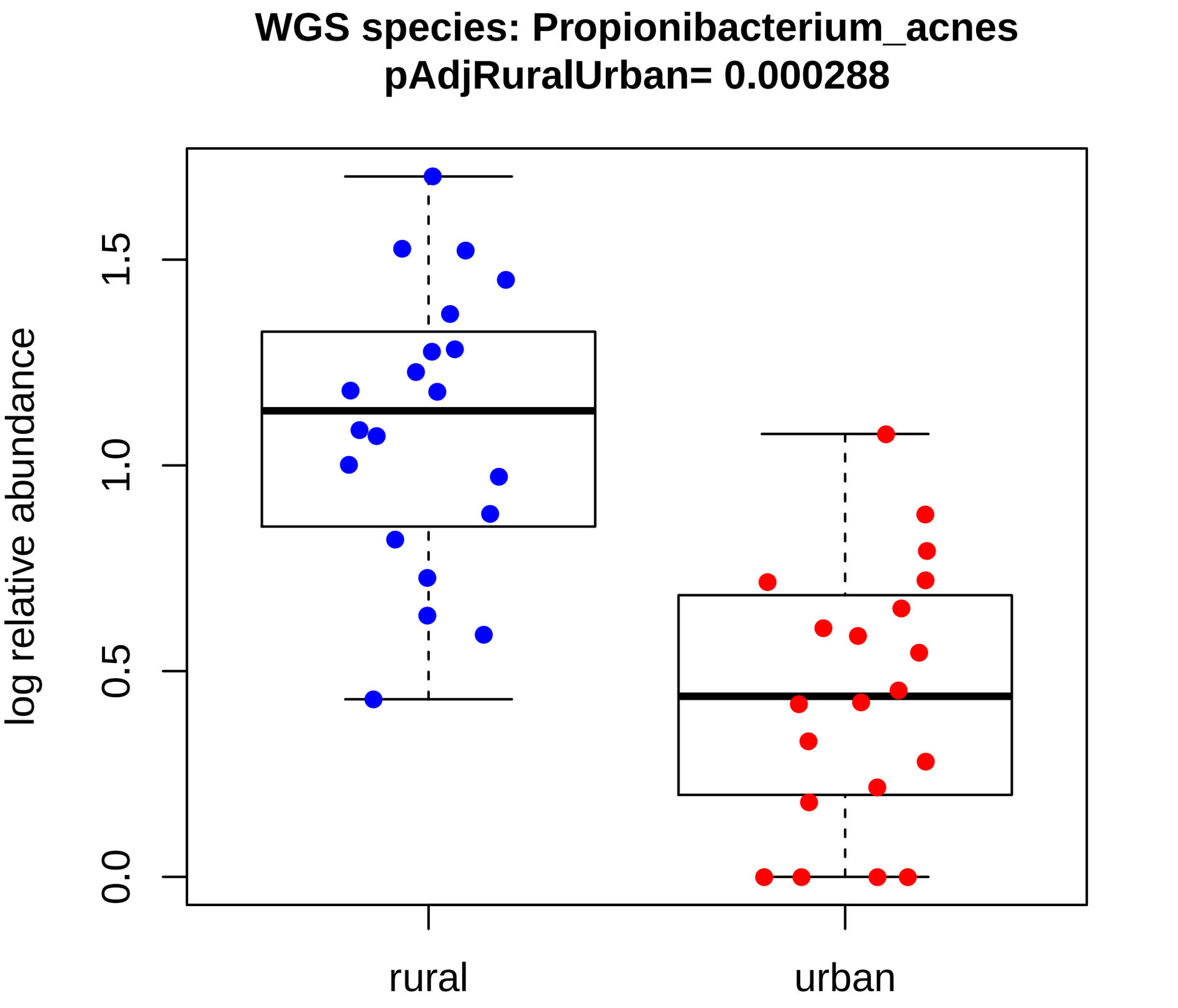
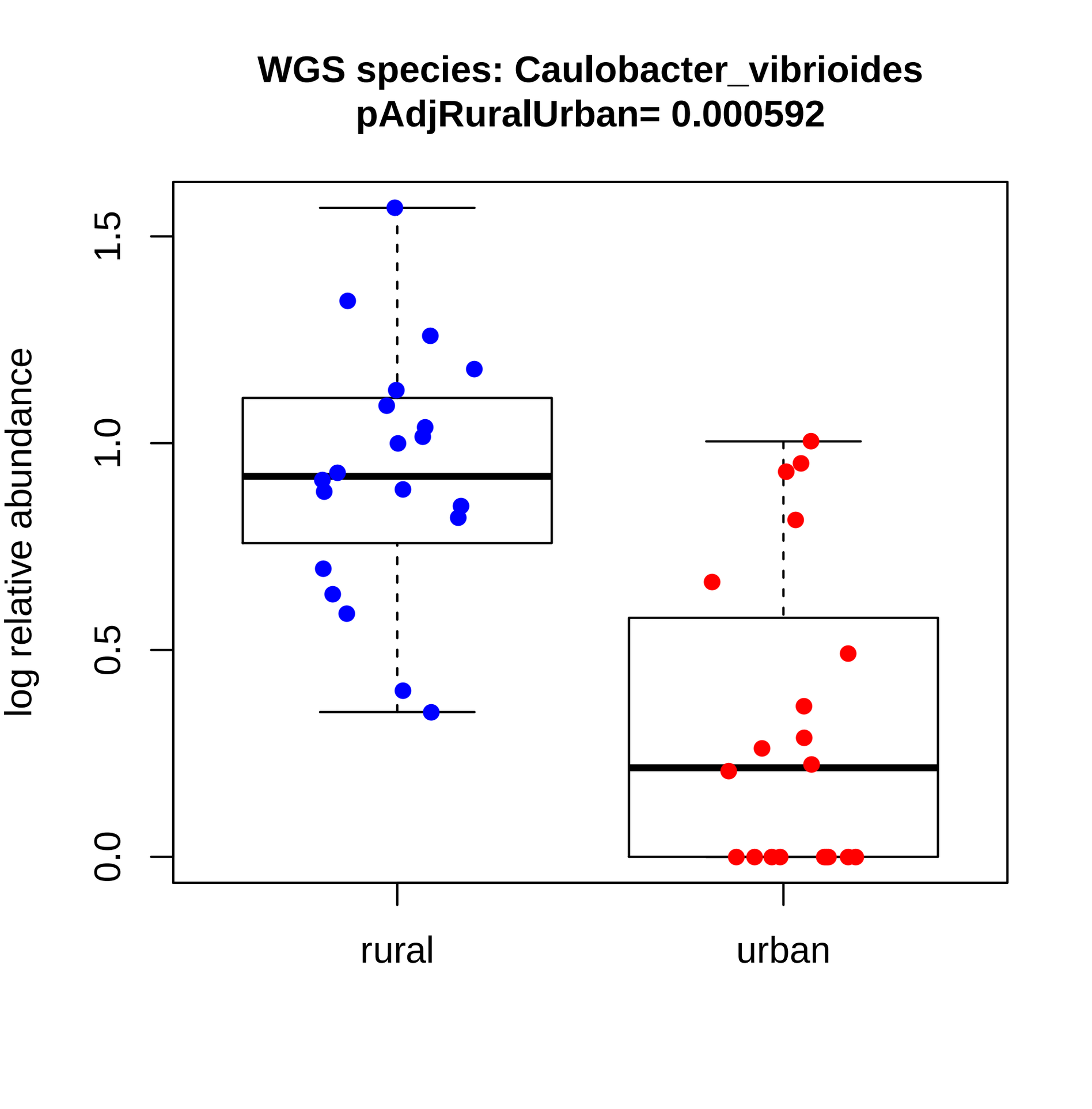
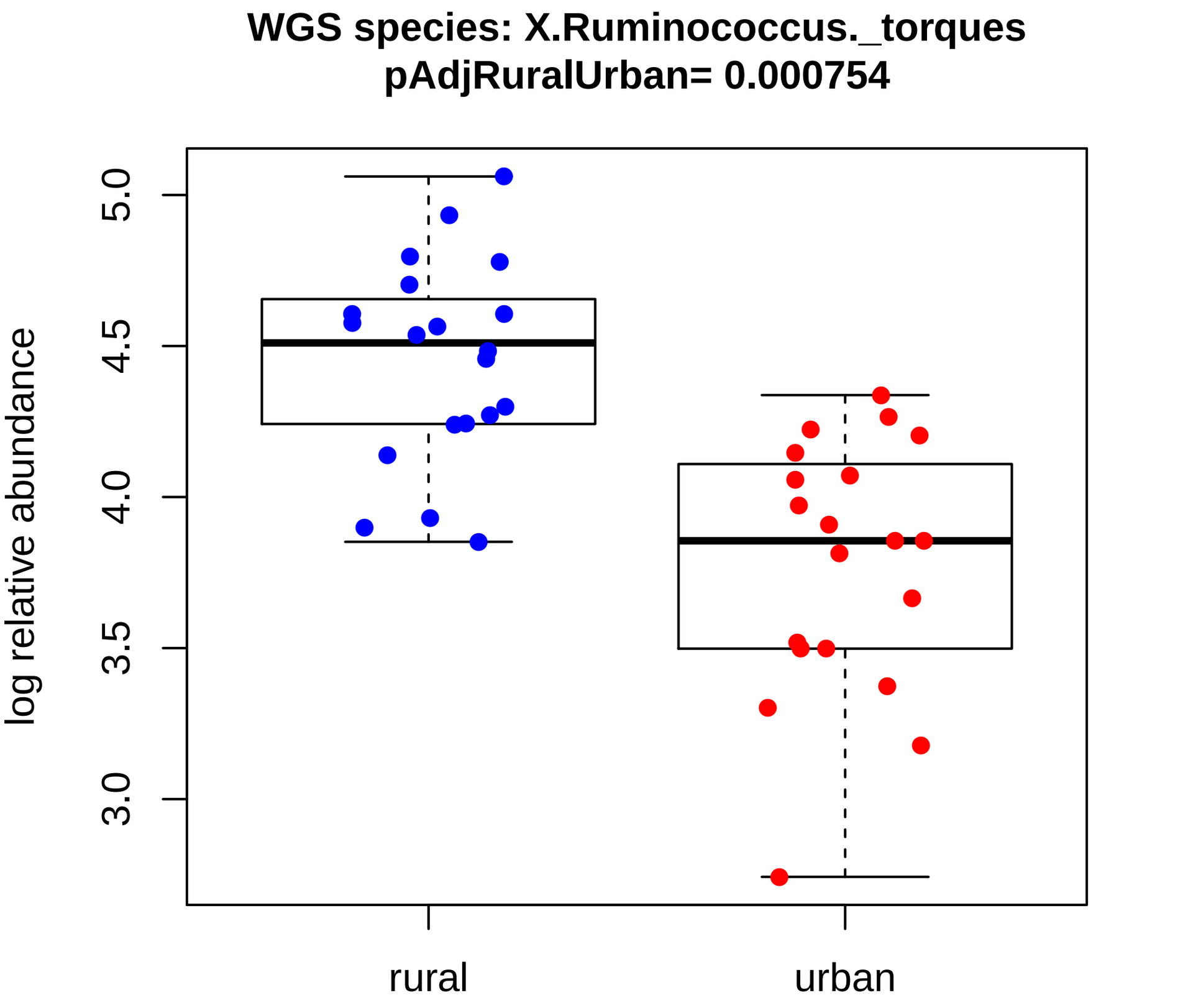
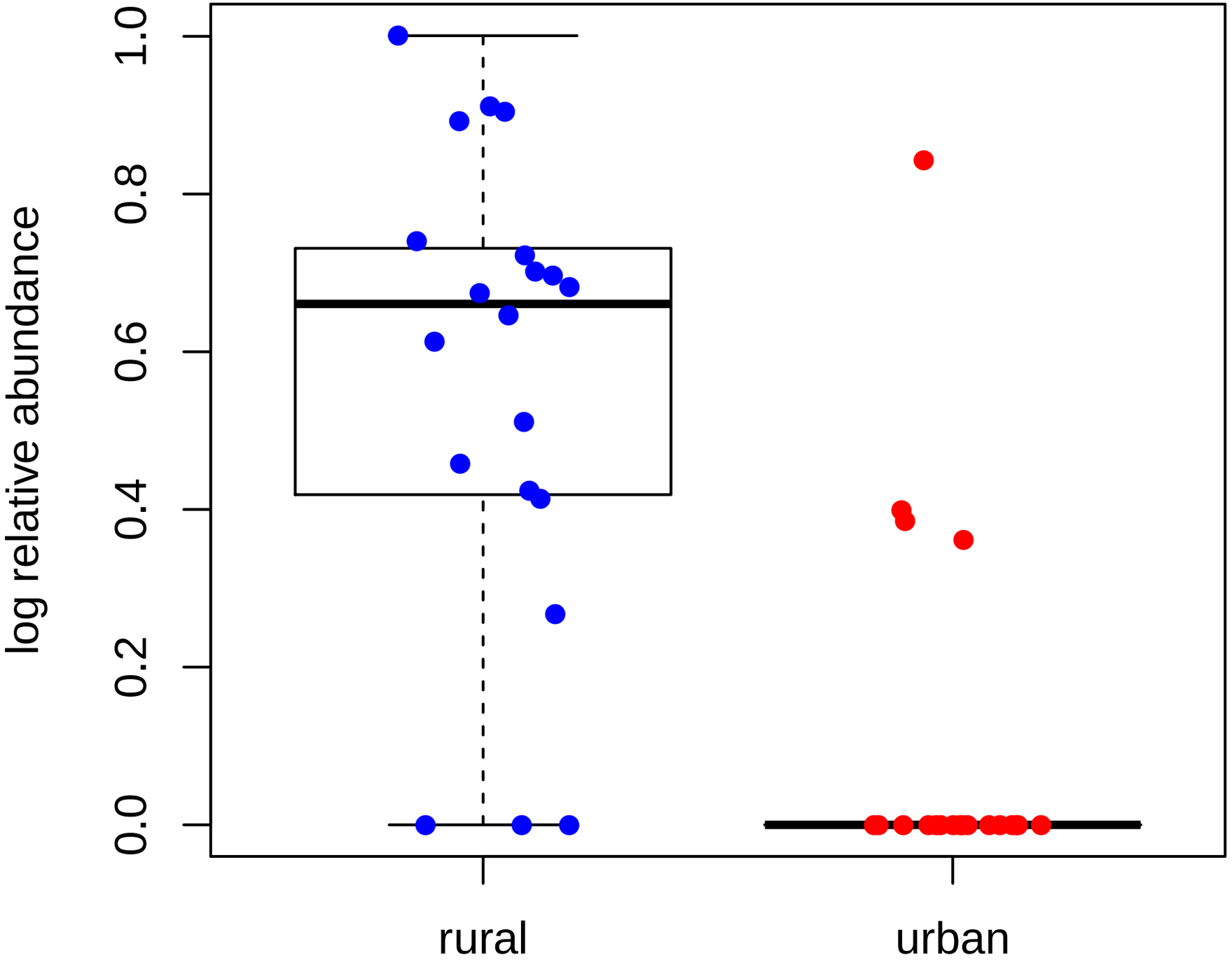
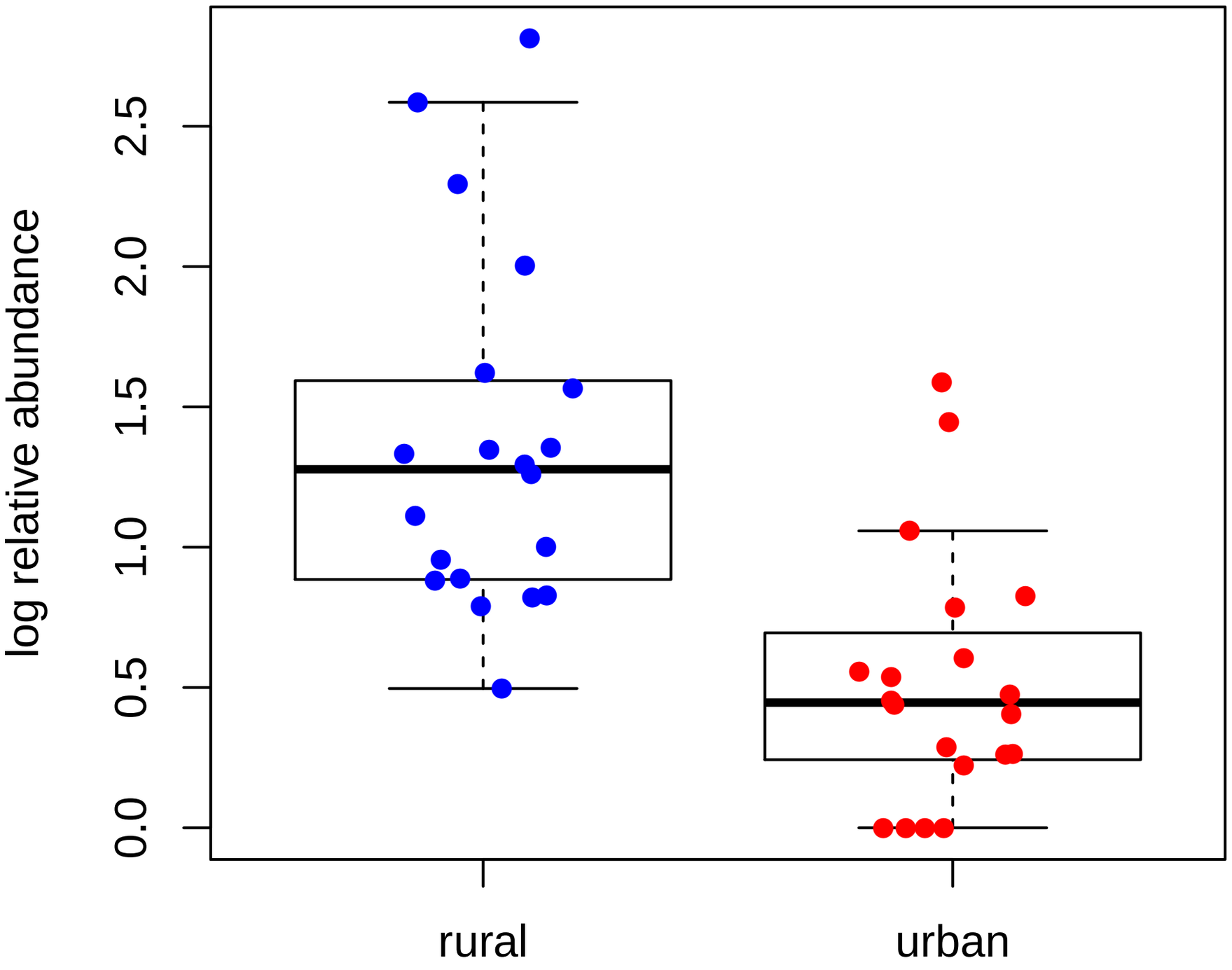
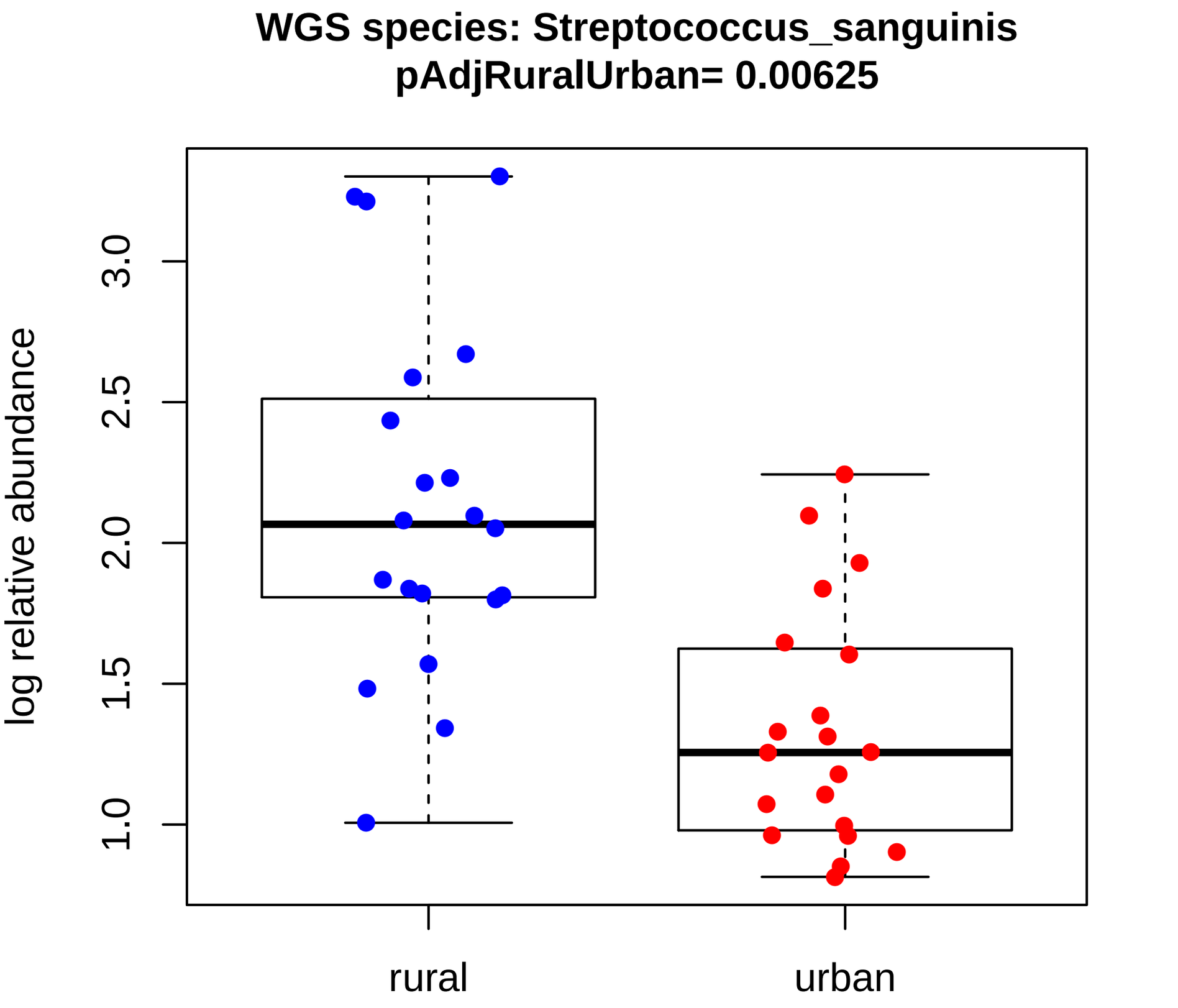

WGS species: Propionibacterium_acnes
pAdjRuralUrban= 0.000288
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

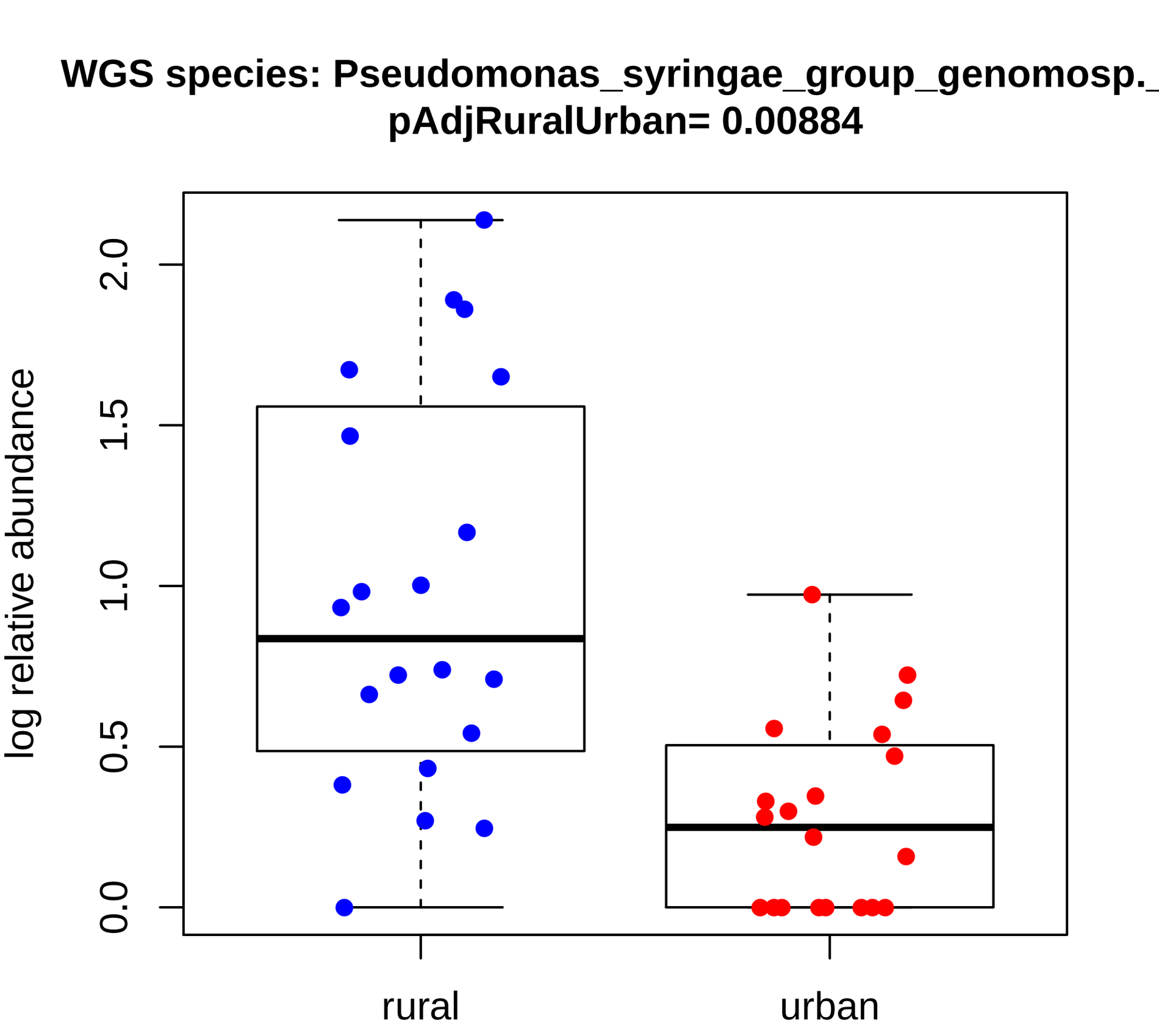

WGS species: Caulobacter_vibrioides
pAdjRuralUrban= 0.000592
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

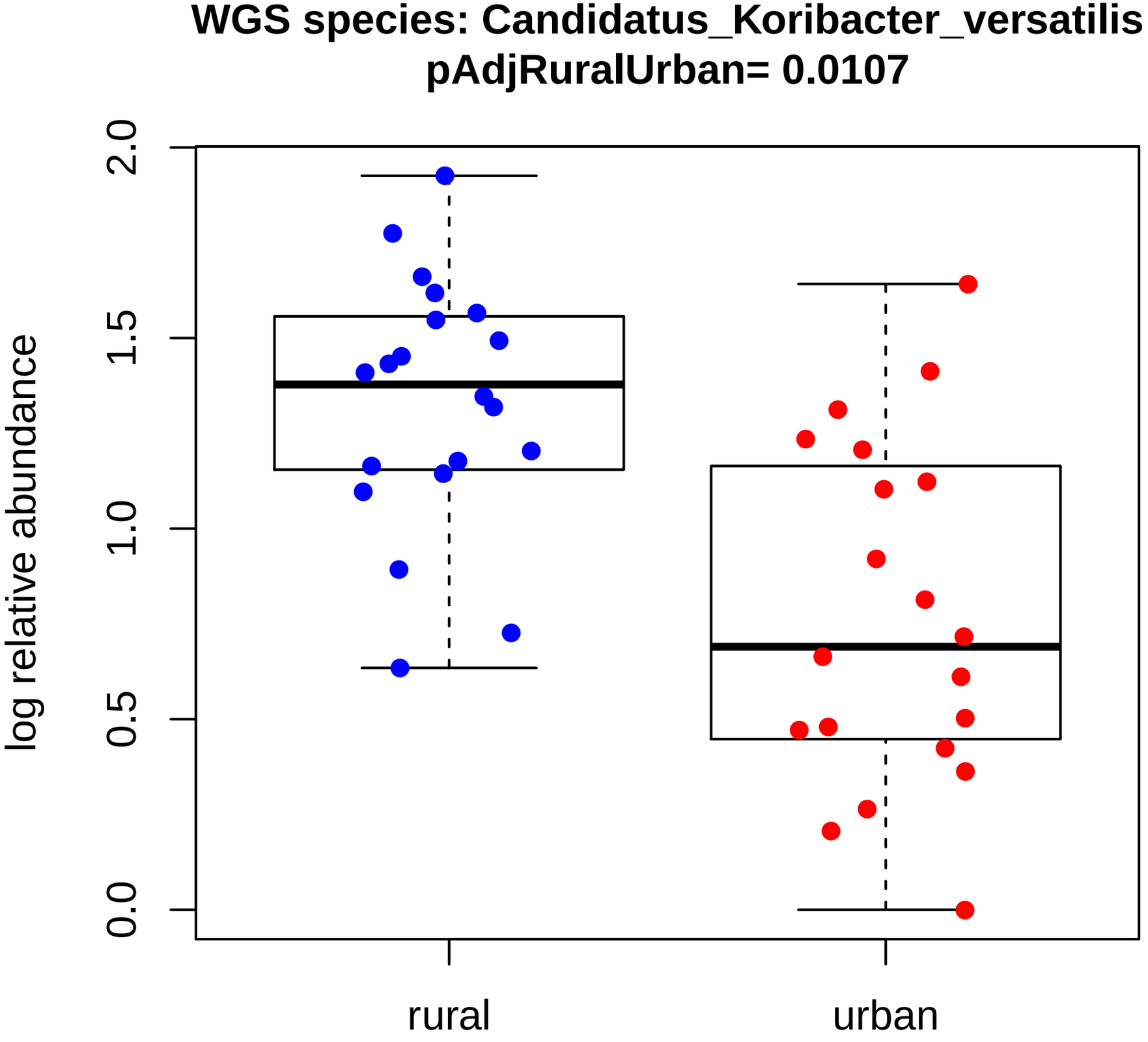

WGS species: X.Ruminococcus._torques
pAdjRuralUrban= 0.000754
log relative abundance
5.0
4.5
4.0
3.5
3.0
rural
urban

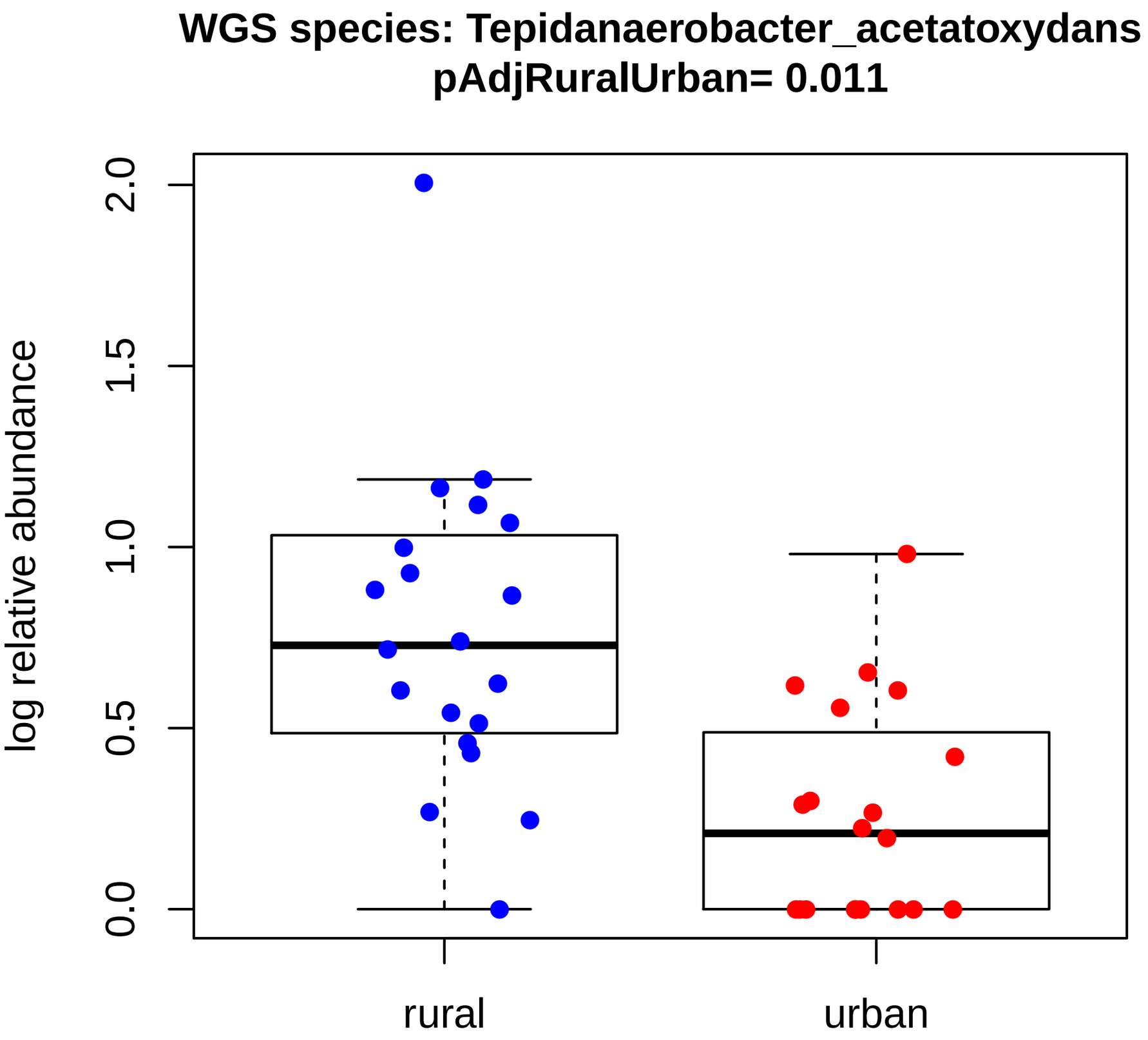

WGS species: Methylobacterium_populi
pAdjRuralUrban= 0.000807
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

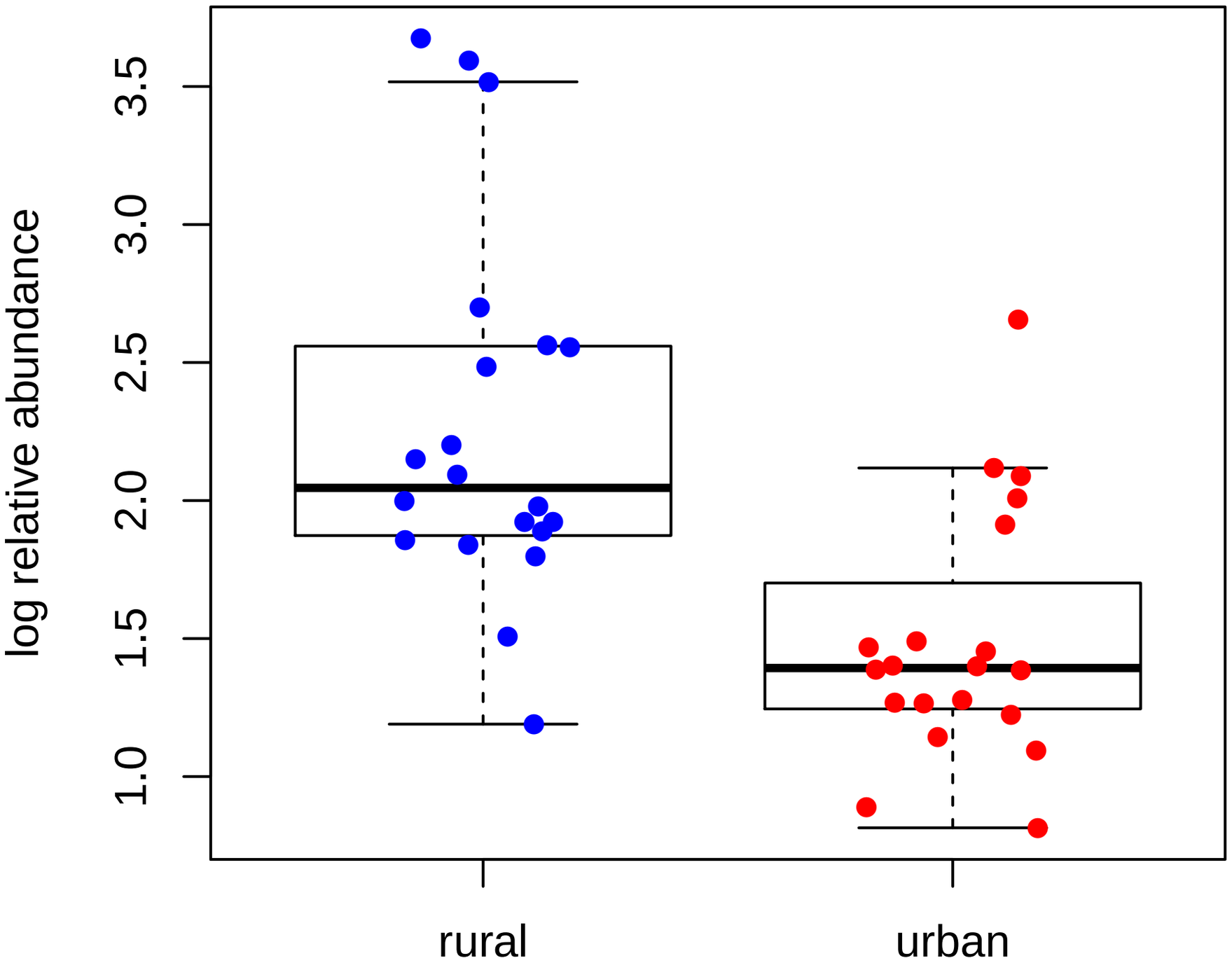

WGS species: Streptococcus_gallolyticus
pAdjRuralUrban= 0.00365
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

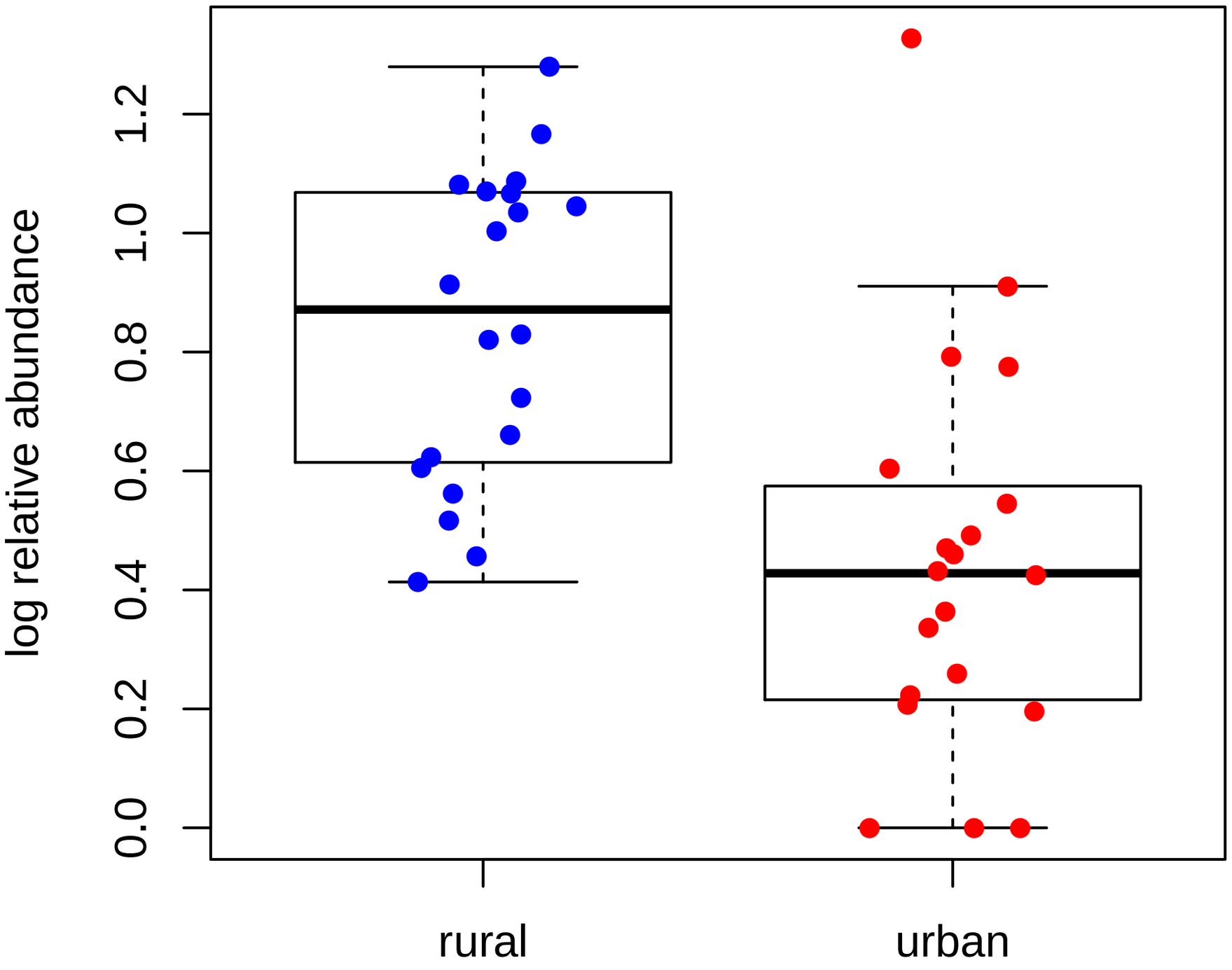

WGS species: Streptococcus_sanguinis
pAdjRuralUrban= 0.00625
log relative abundance
1.0
1.5
2.0
2.5
3.0
rural
urban

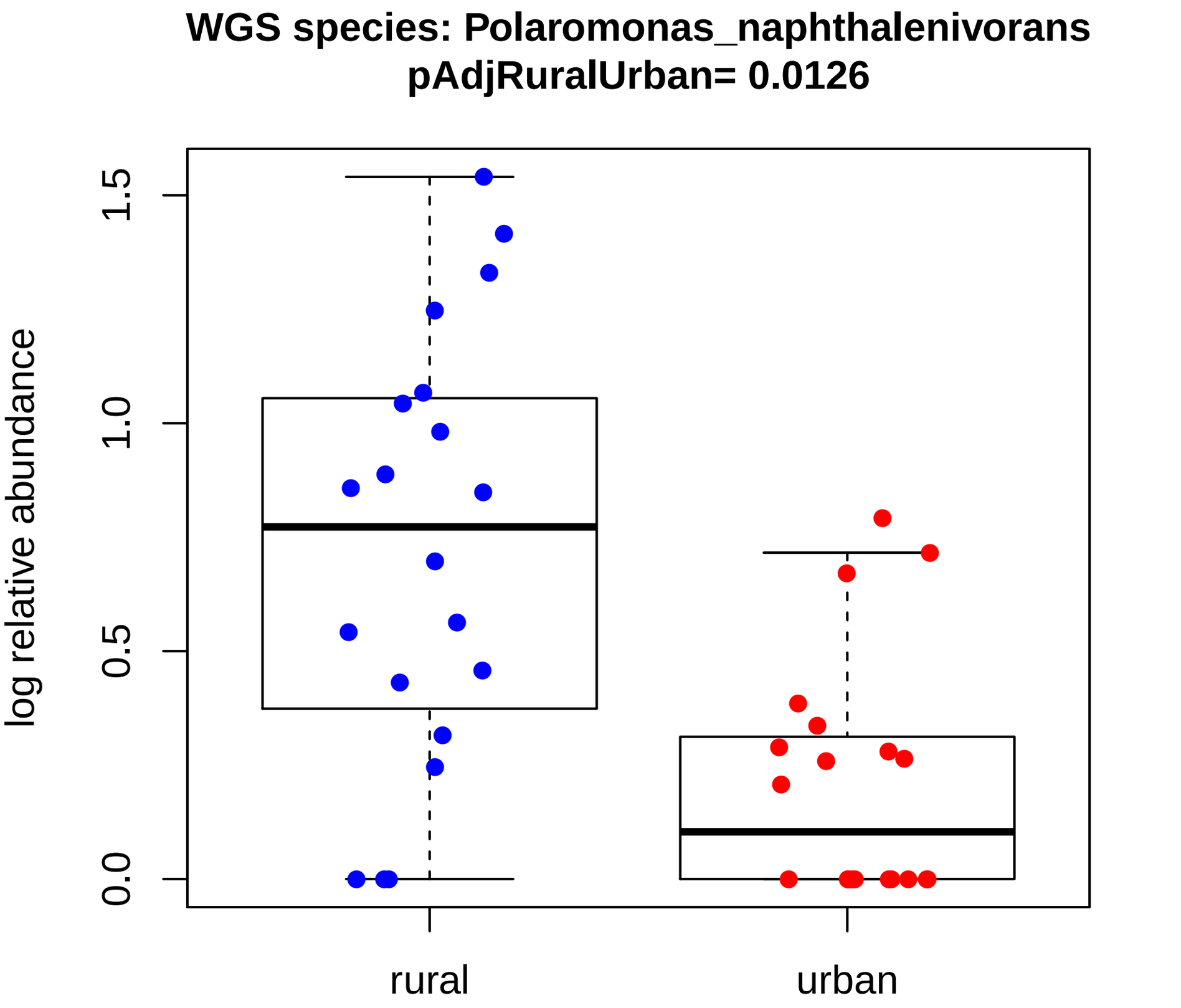

WGS species: Pseudomonas_syringae_group_genomosp._
pAdjRuralUrban= 0.00884
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

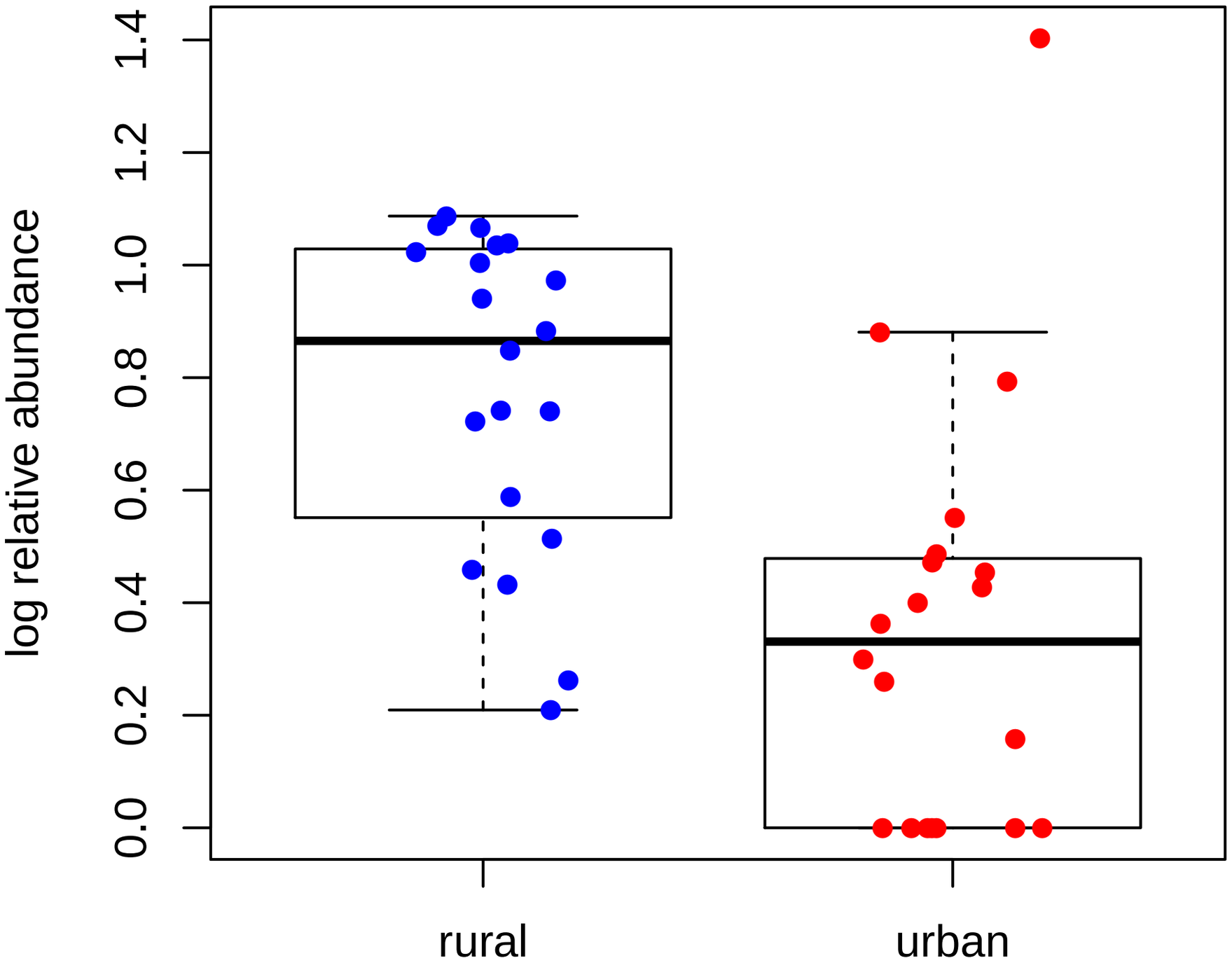

WGS species: Candidatus_Koribacter_versatilis
pAdjRuralUrban= 0.0107
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

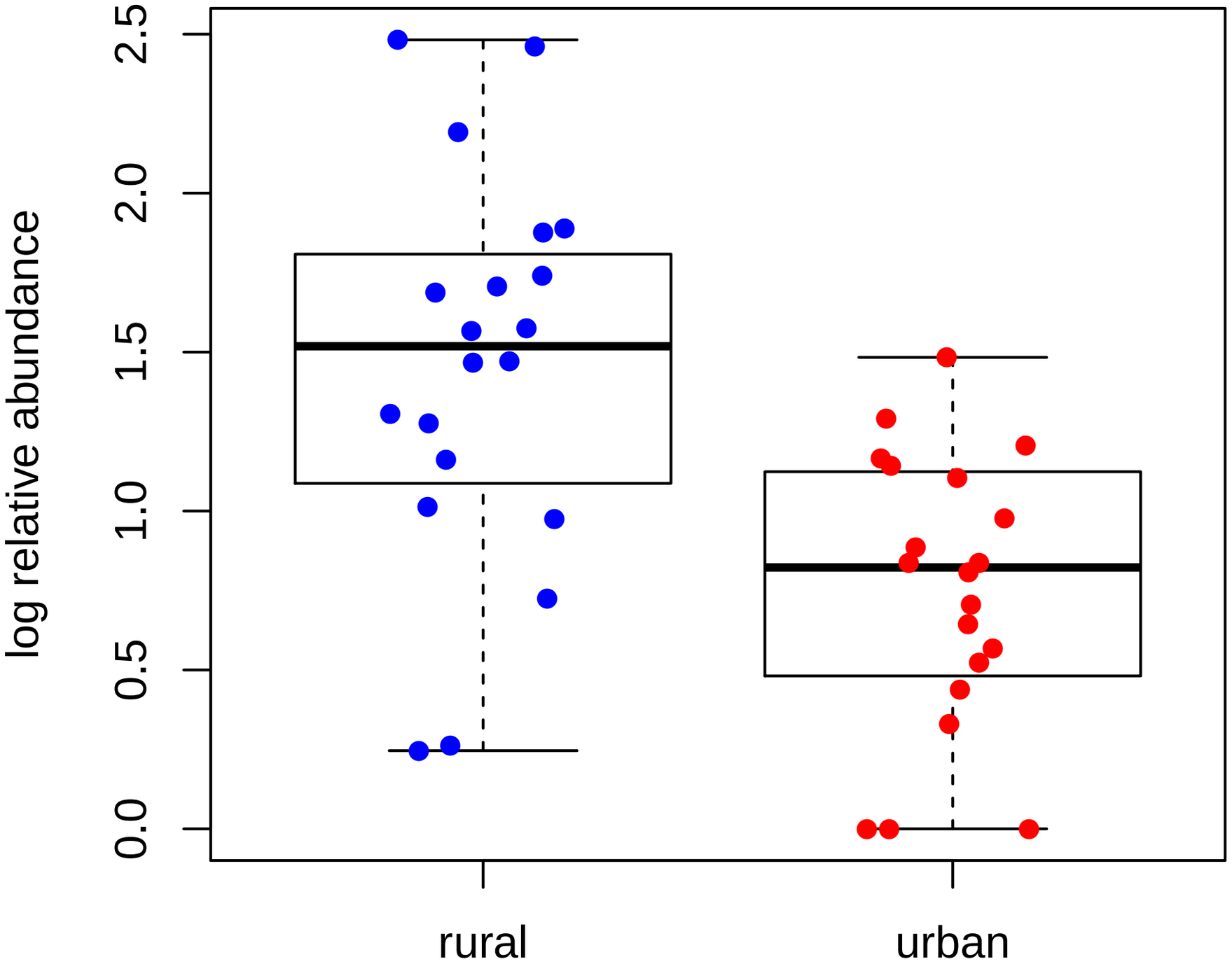

WGS species: Tepidanaerobacter_acetatoxydans
pAdjRuralUrban= 0.011
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

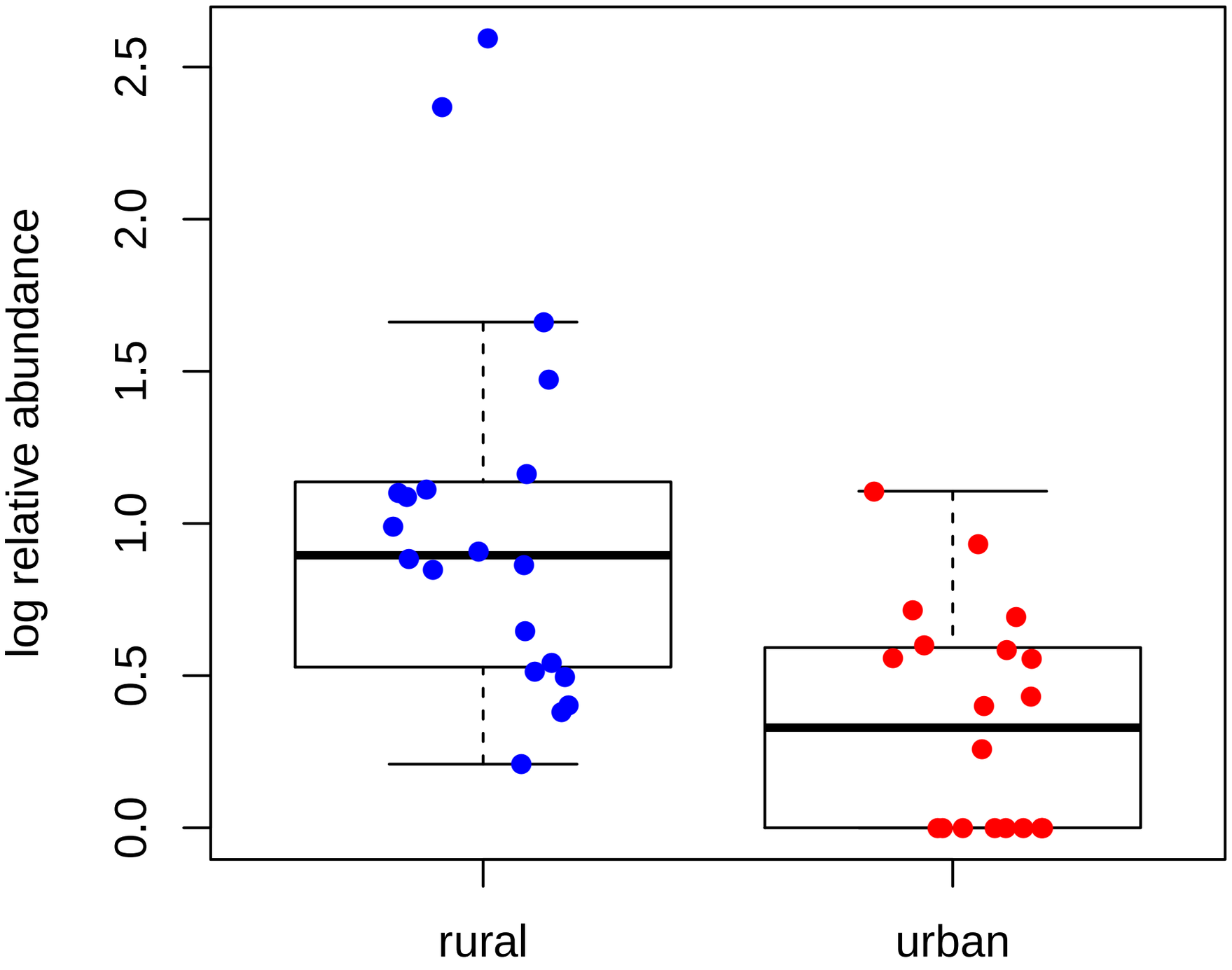

WGS species: Streptococcus_oralis
pAdjRuralUrban= 0.011
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

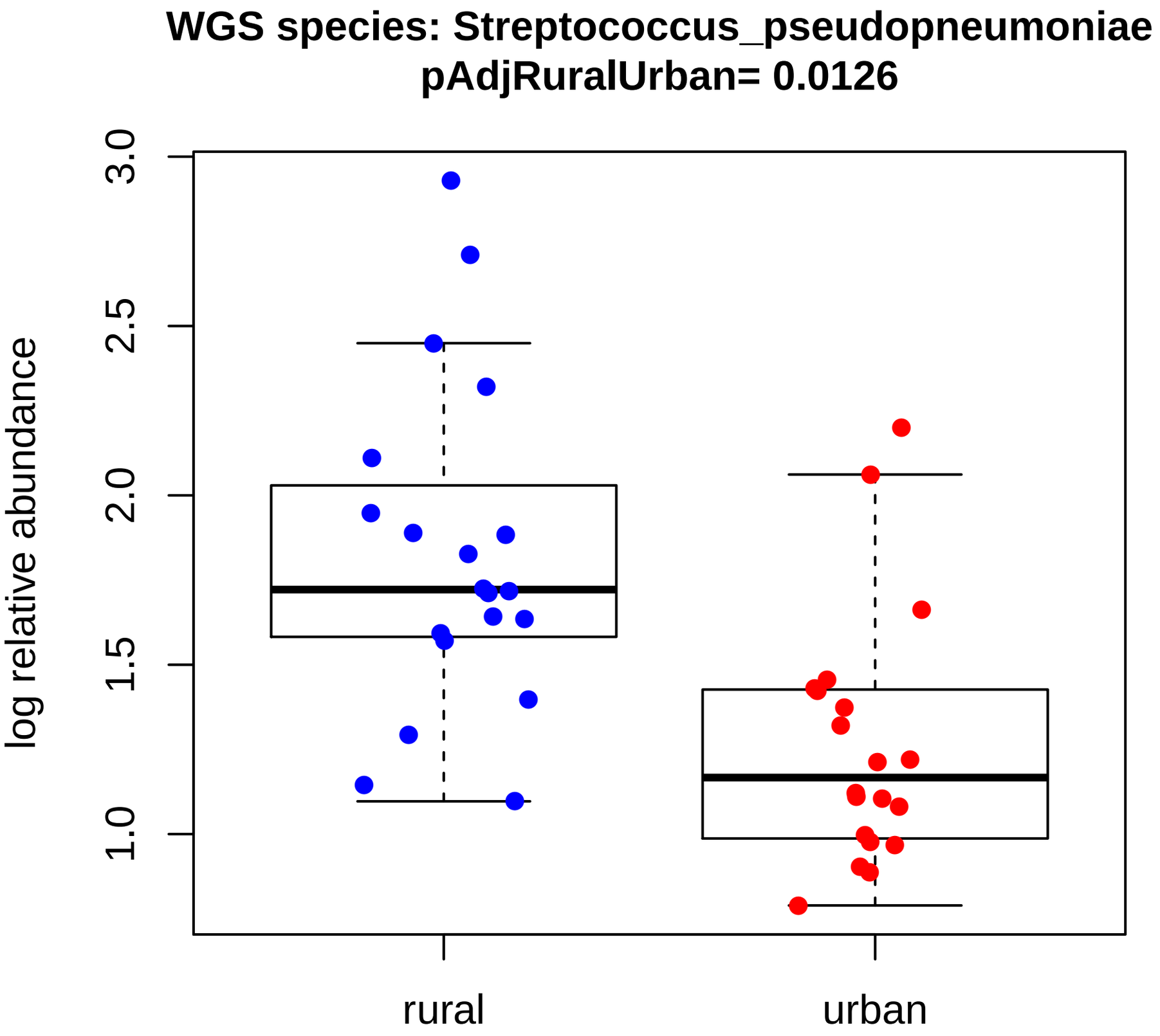

WGS species: Azorhizobium_caulinodans
pAdjRuralUrban= 0.011
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

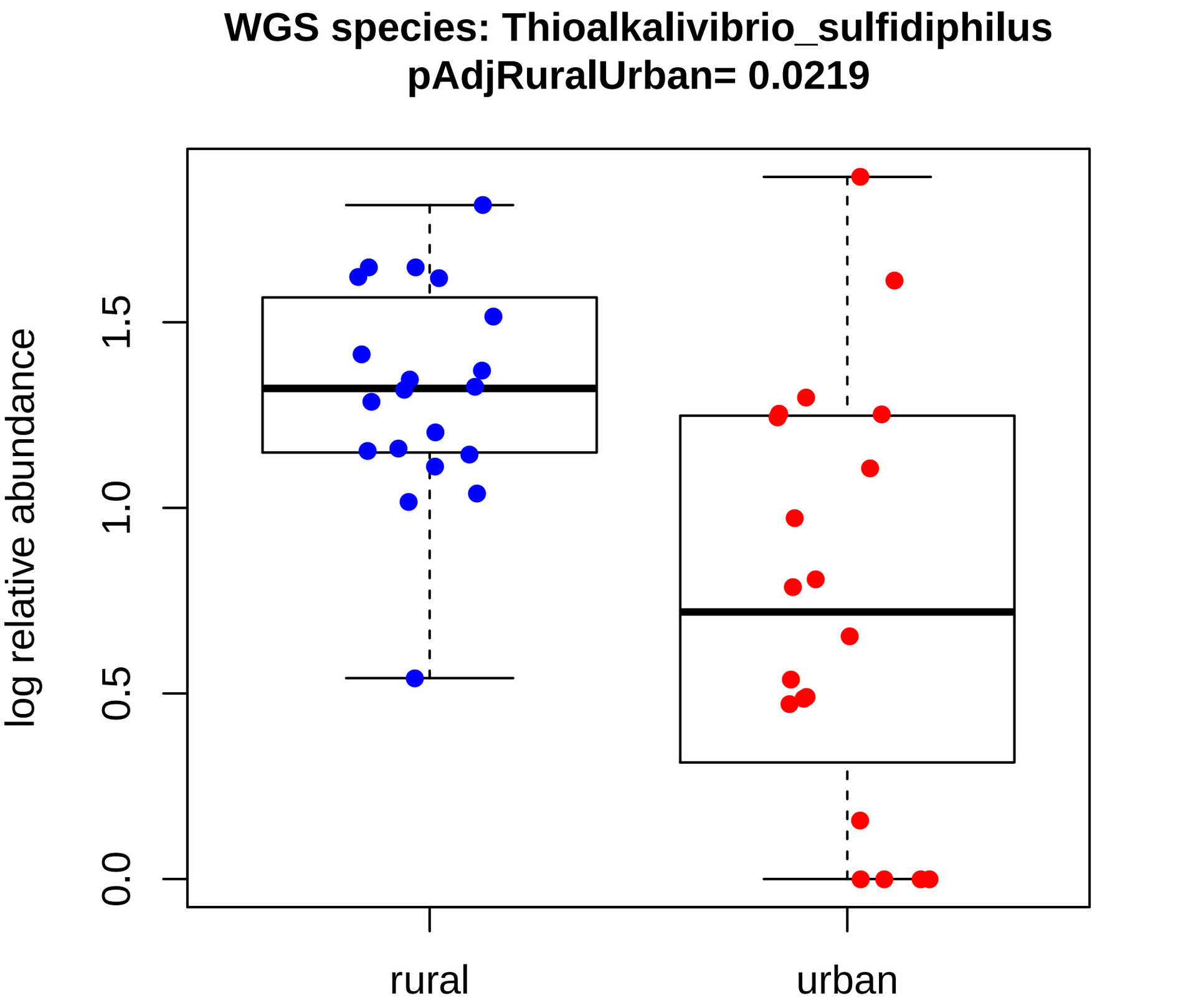

WGS species: Polaromonas_naphthalenivorans
pAdjRuralUrban= 0.0126
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

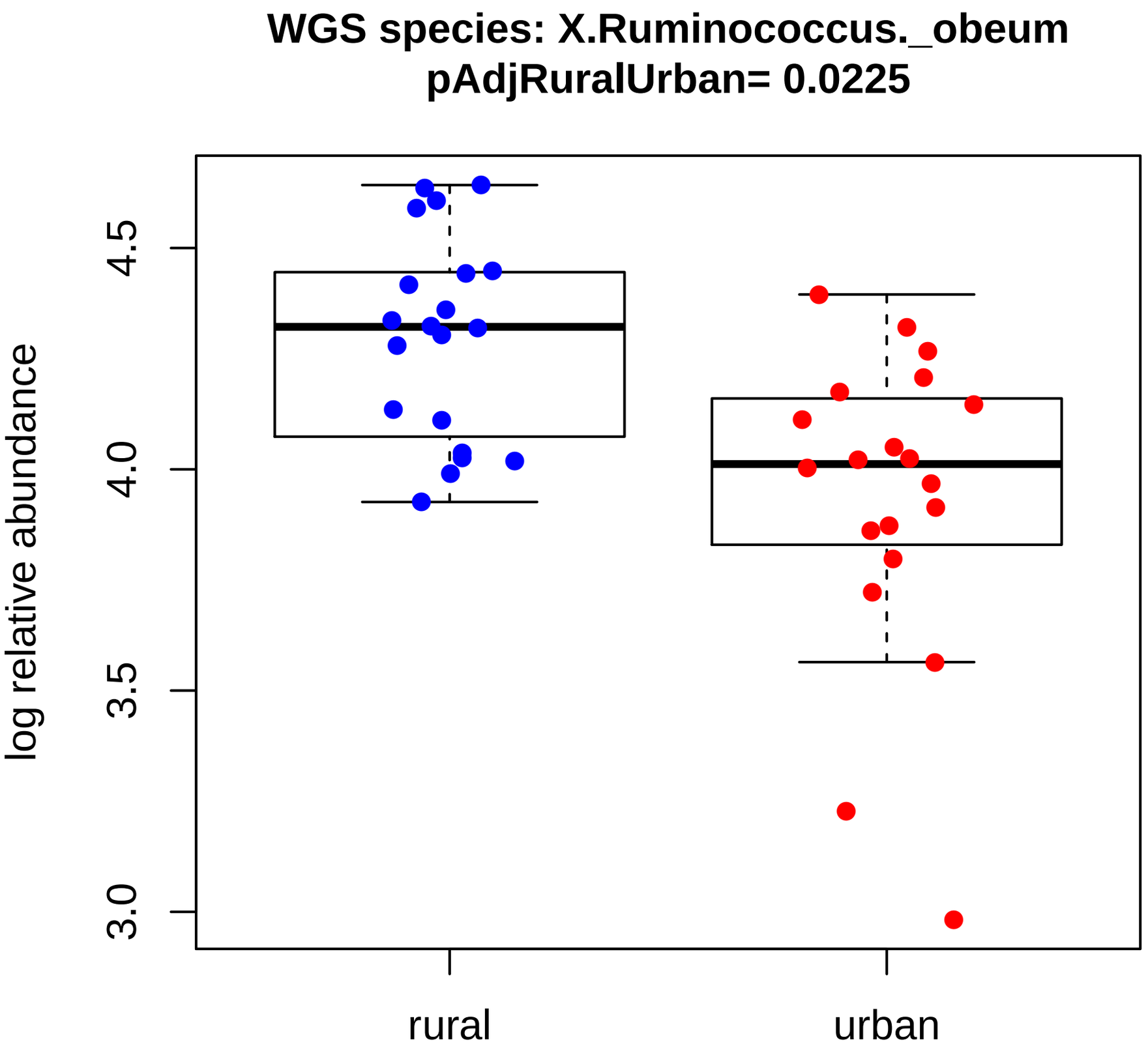

WGS species: Kineococcus_radiotolerans
pAdjRuralUrban= 0.0126
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

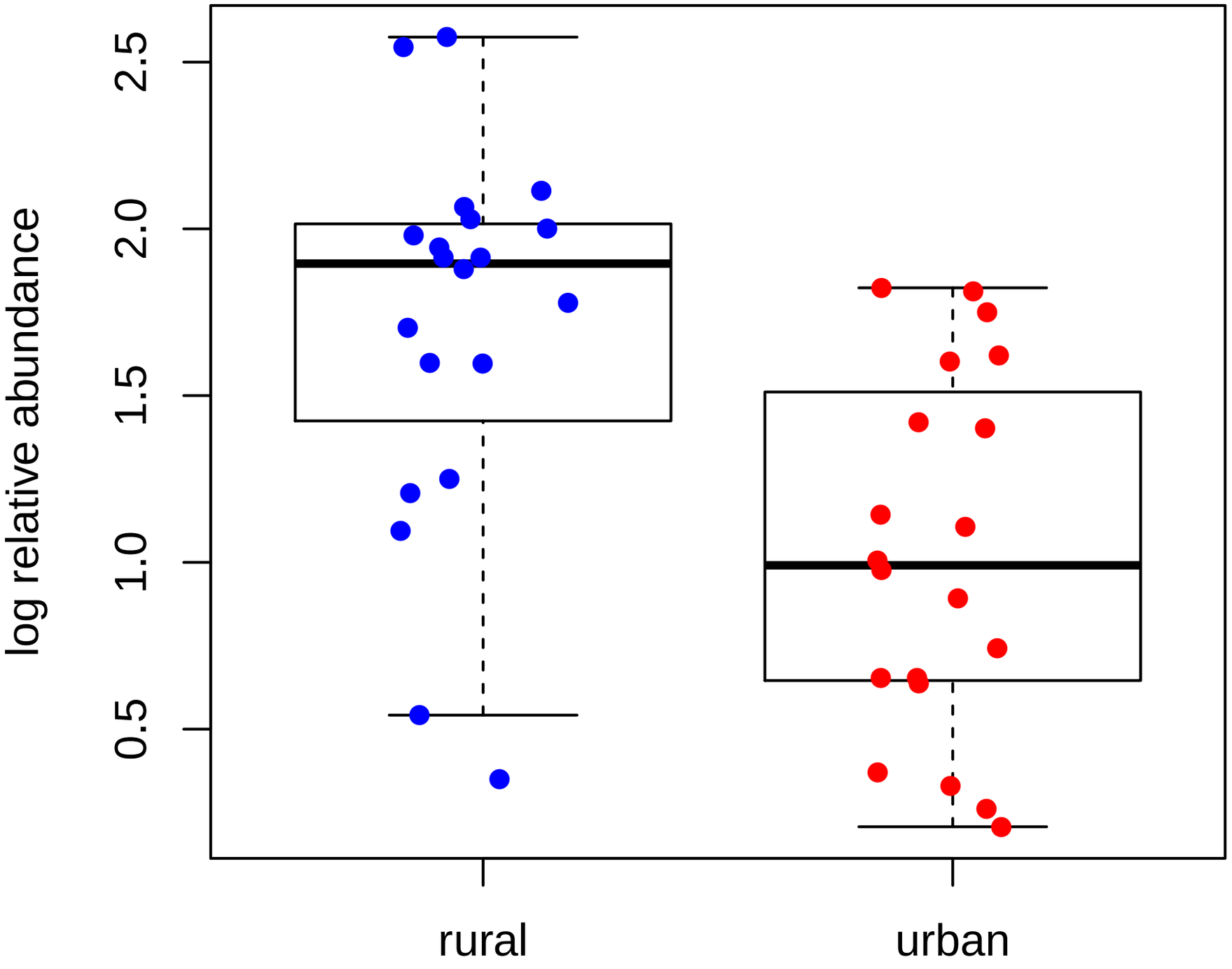

WGS species: Corynebacterium_variabile
pAdjRuralUrban= 0.0126
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

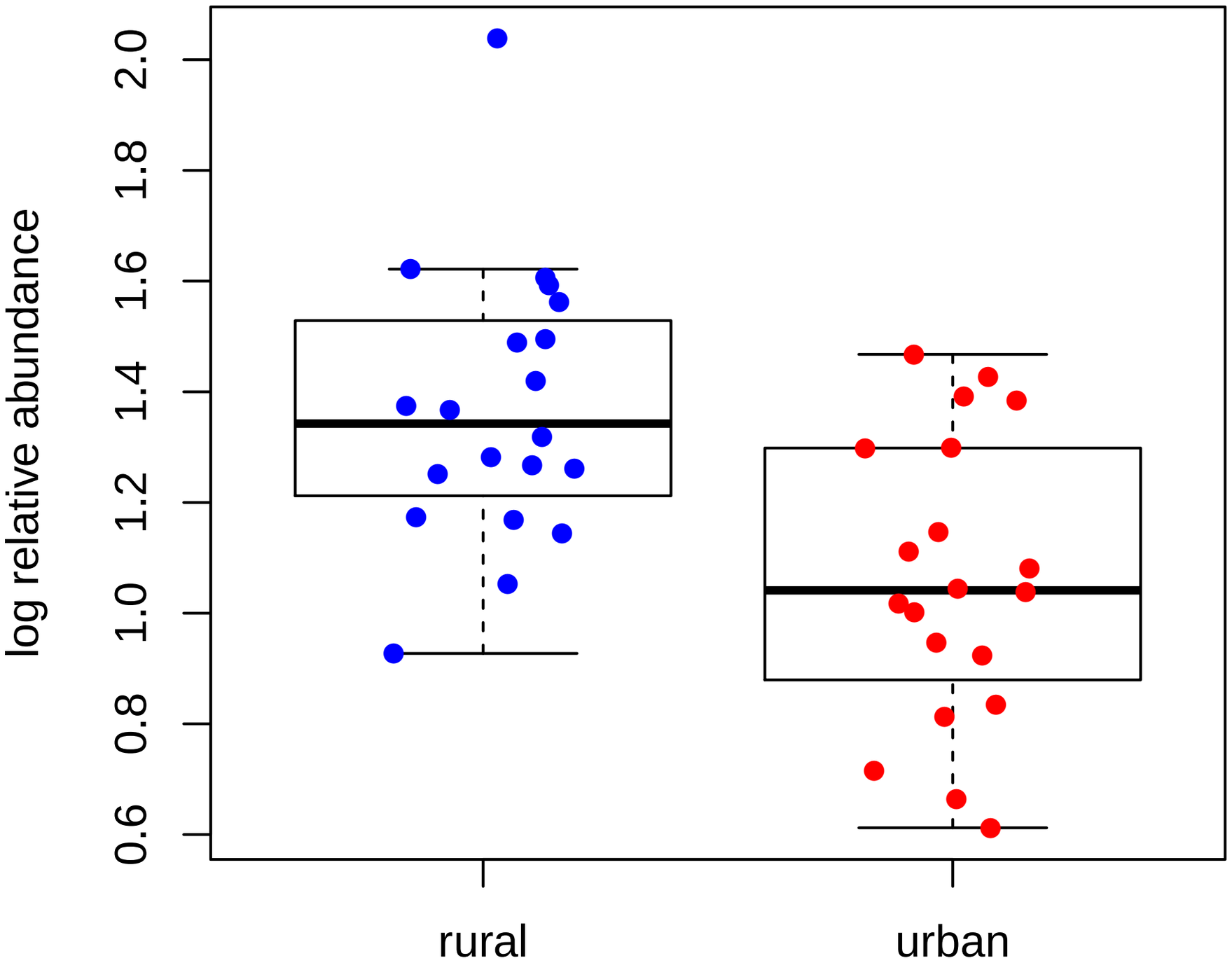

WGS species: Enterococcus_casseliflavus
pAdjRuralUrban= 0.0126
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

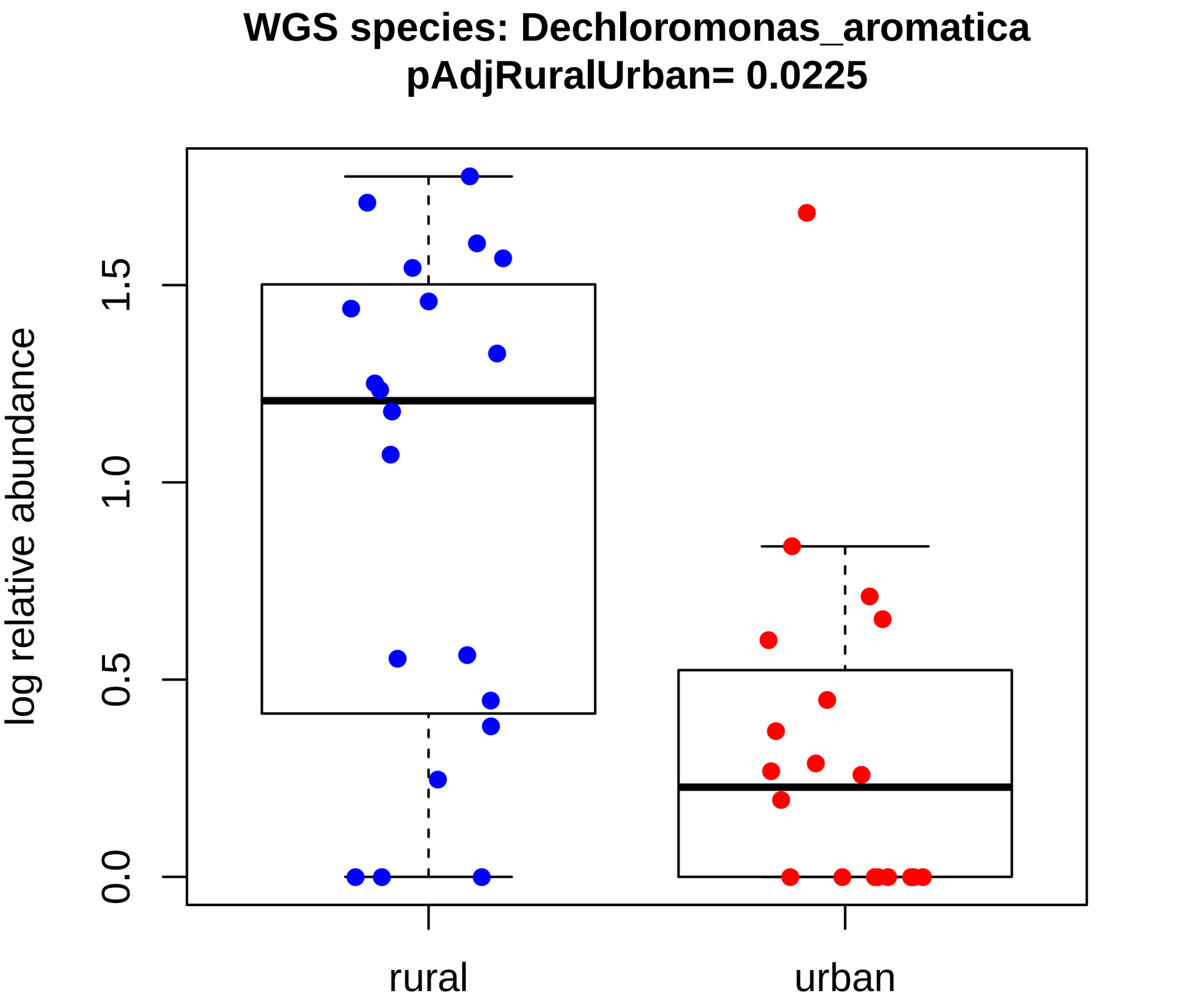

WGS species: Streptococcus_pseudopneumoniae
pAdjRuralUrban= 0.0126
log relative abundance
3.0
2.5
2.0
1.5
1.0
rural
urban

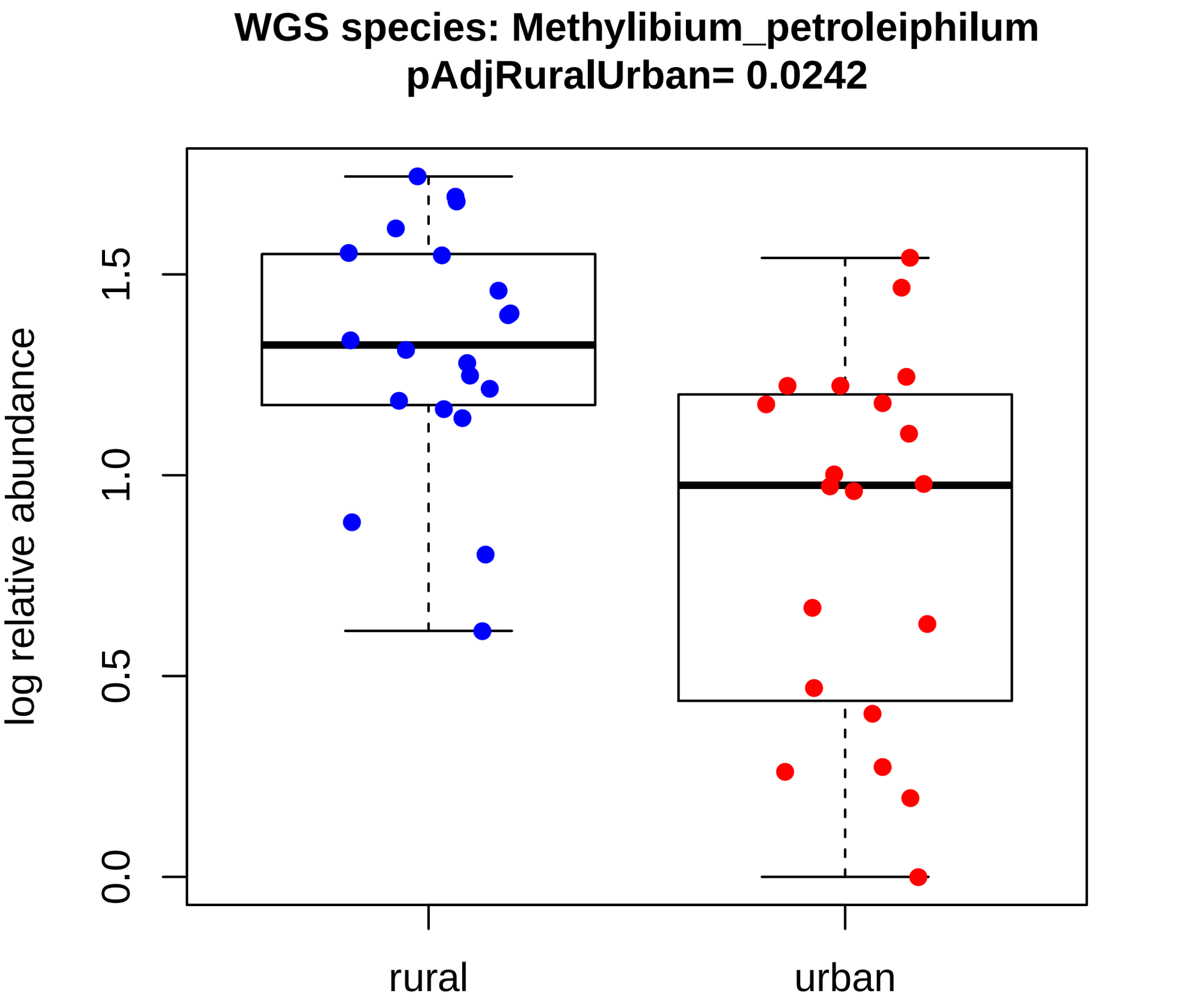

WGS species: Thioalkalivibrio_sulfidiphilus
pAdjRuralUrban= 0.0219
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

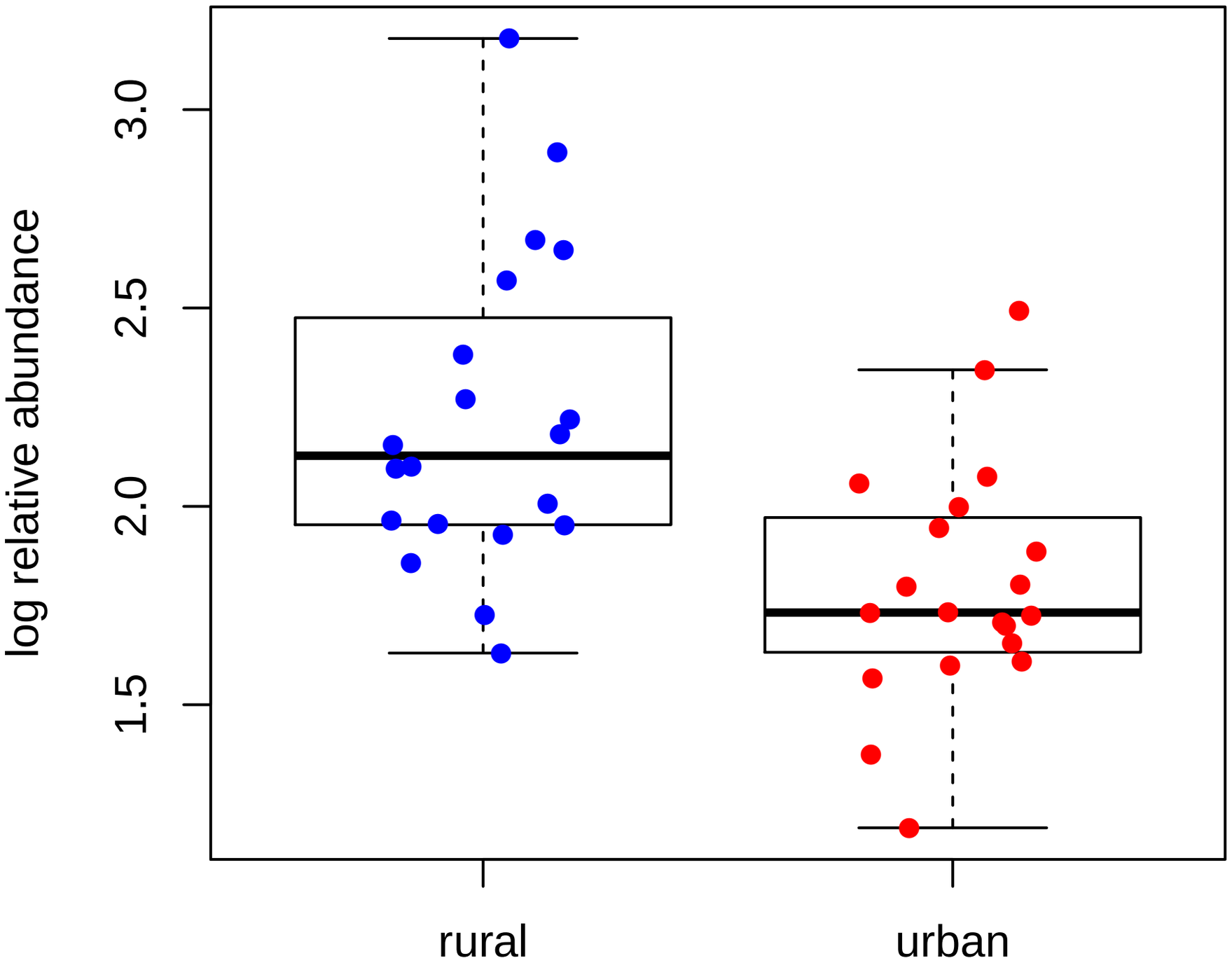

WGS species: X.Ruminococcus._obeum
pAdjRuralUrban= 0.0225
log relative abundance
4.5
4.0
3.5
3.0
rural
urban

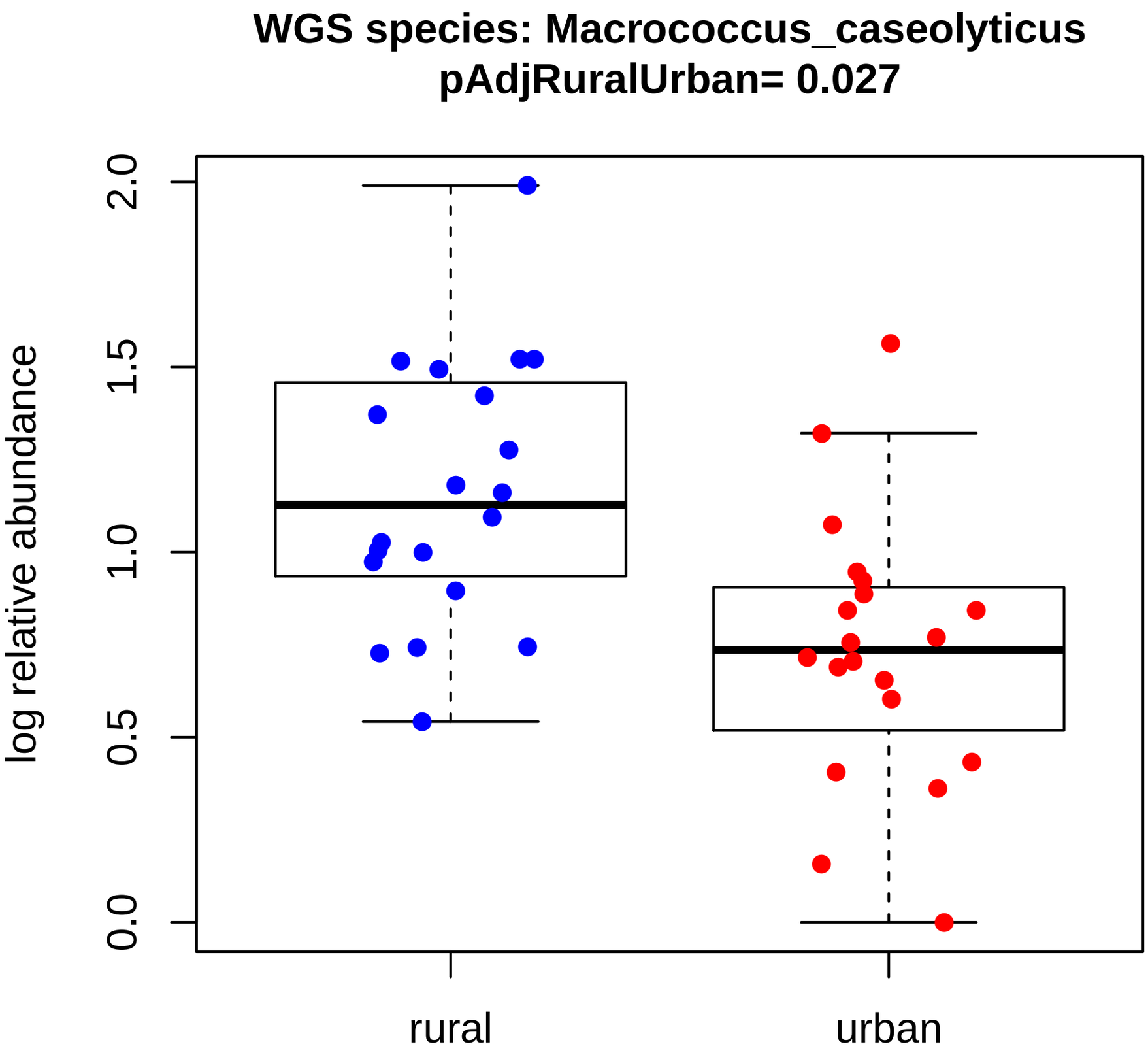

WGS species: Coriobacterium_glomerans
pAdjRuralUrban= 0.0225
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

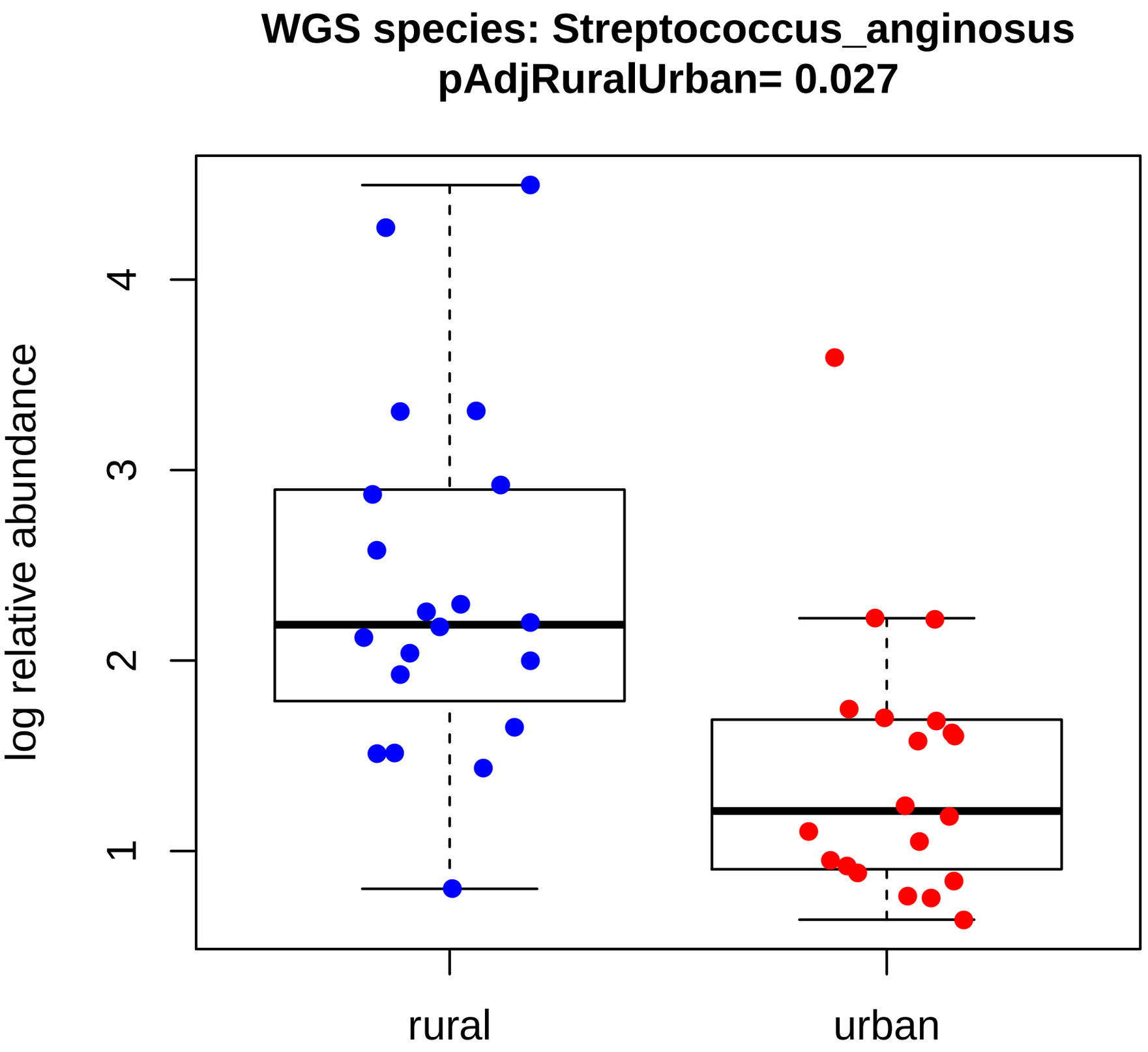

WGS species: X.Clostridium._sticklandii
pAdjRuralUrban= 0.0225
log relative abundance
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
rural
urban

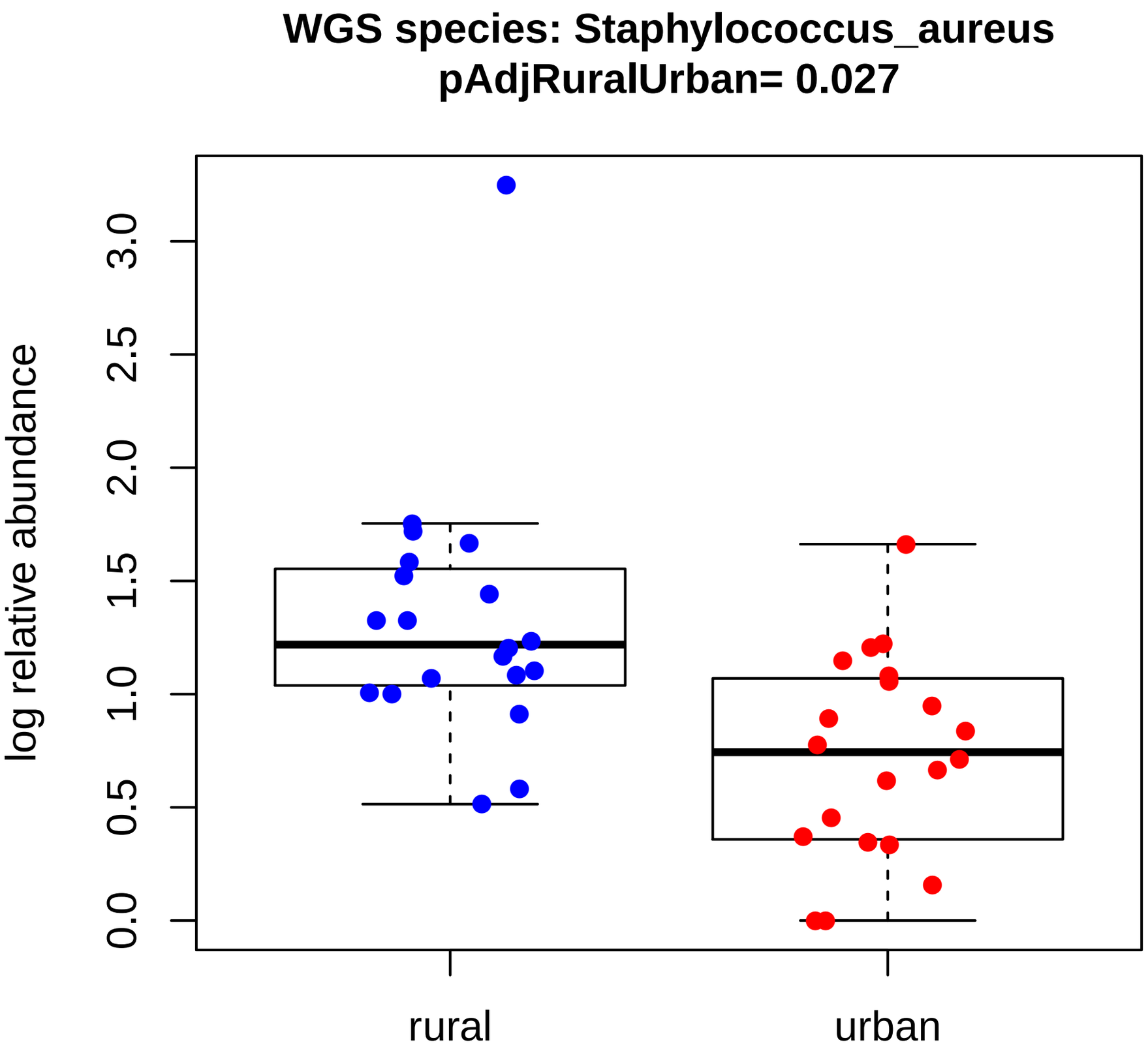

WGS species: Dechloromonas_aromatica
pAdjRuralUrban= 0.0225
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

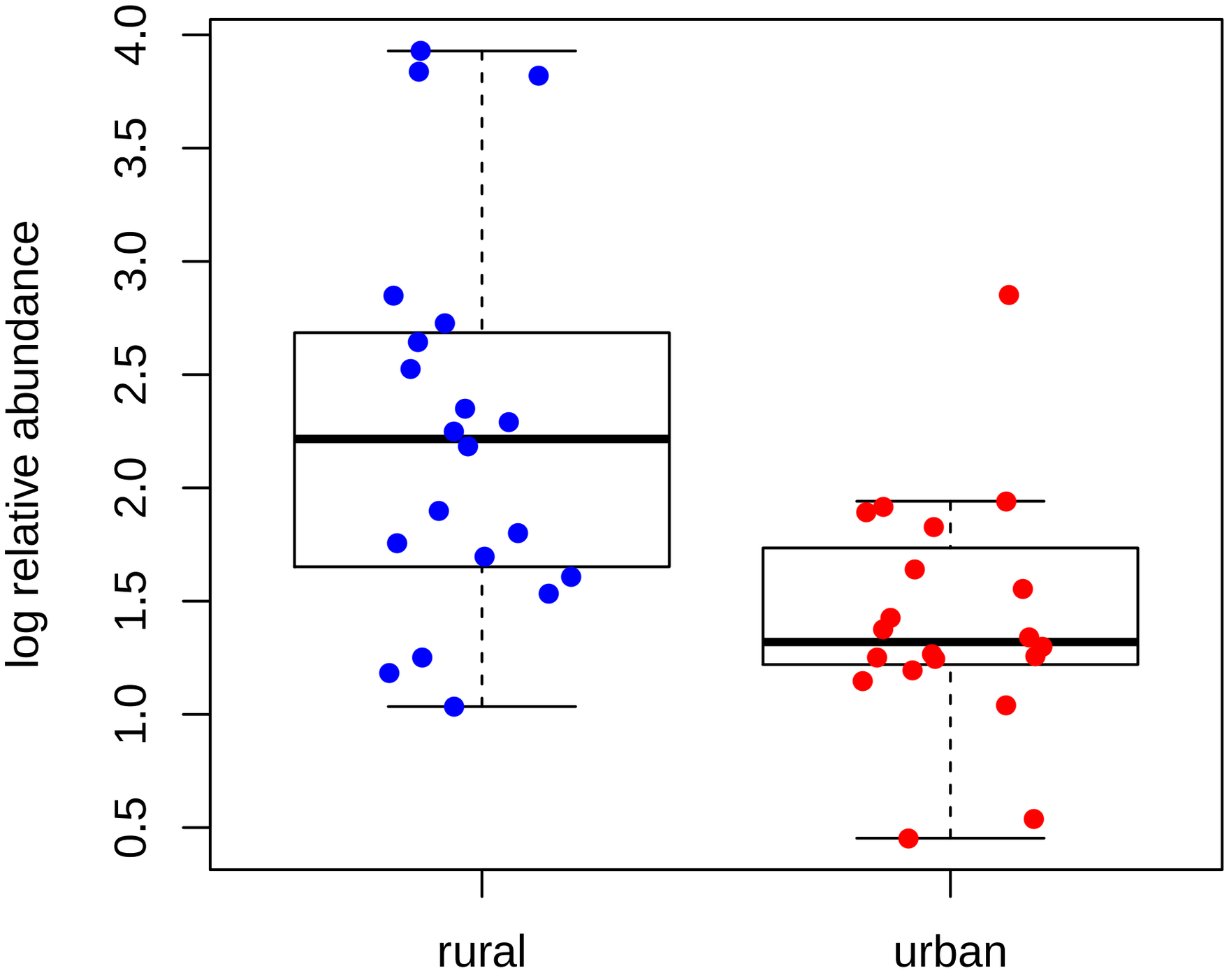

WGS species: Methylibium_petroleiphilum
pAdjRuralUrban= 0.0242
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

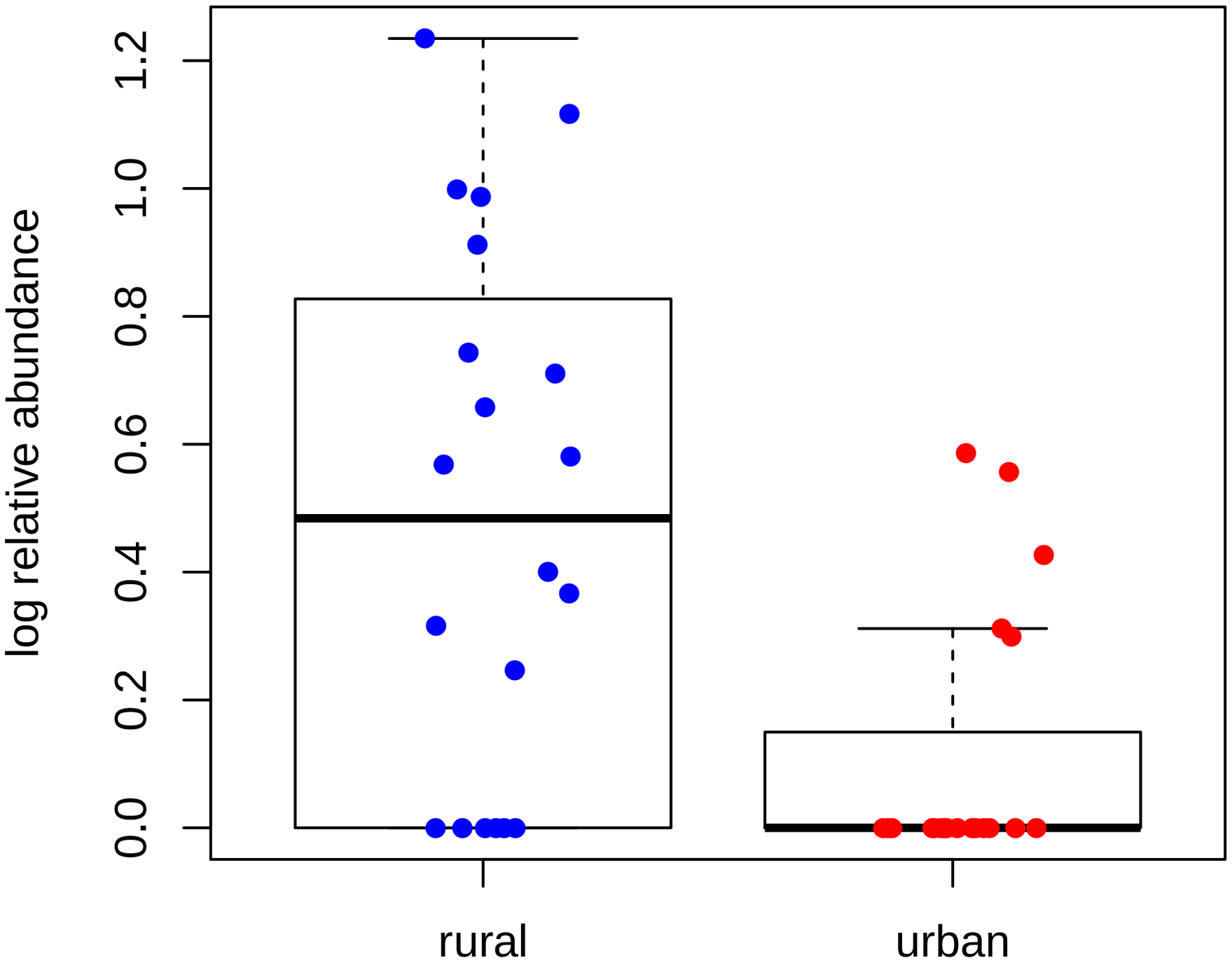

WGS species: Streptococcus_mitis
pAdjRuralUrban= 0.027
log relative abundance
3.0
2.5
2.0
1.5
rural
urban

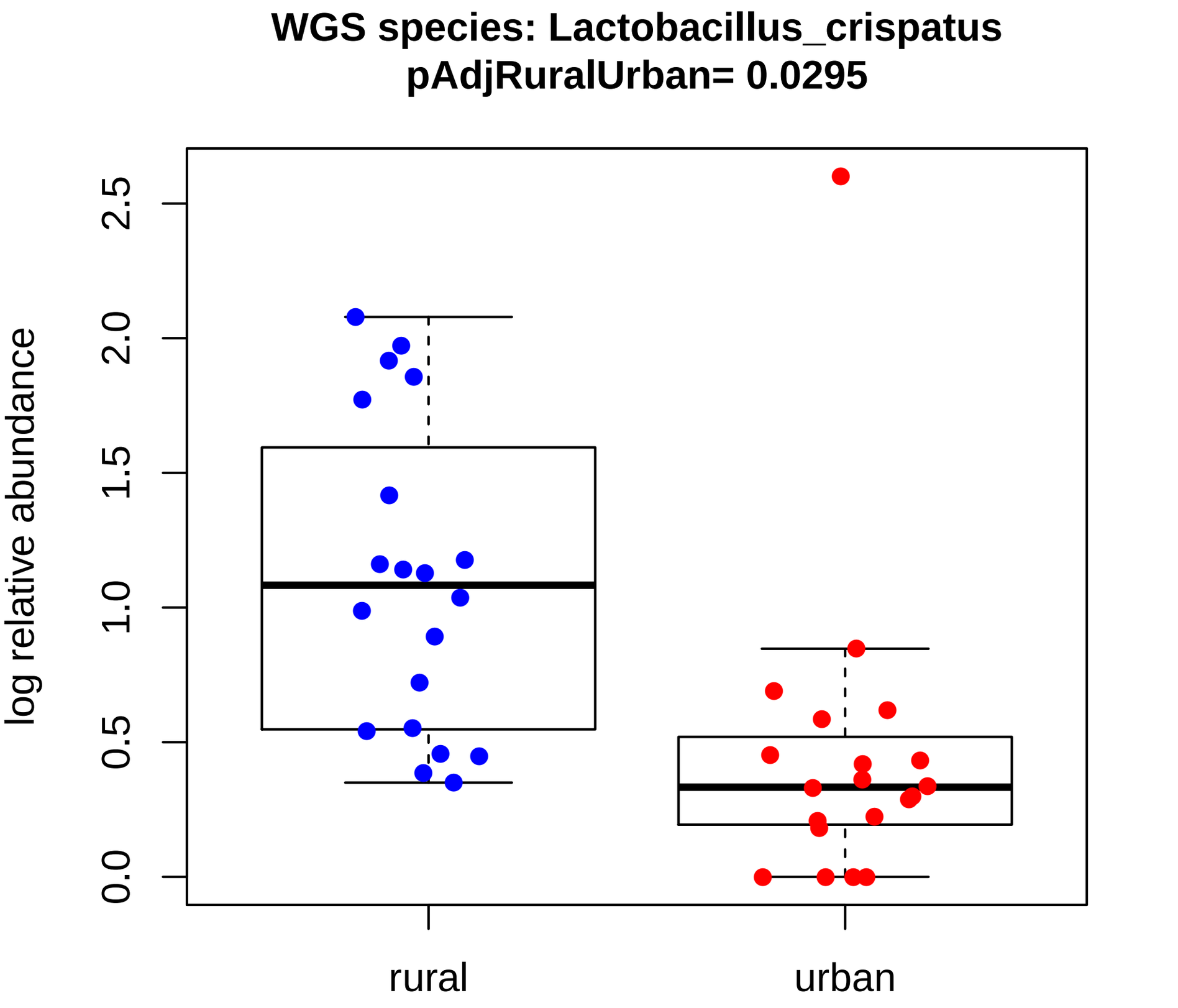

WGS species: Macrococcus_caseolyticus
pAdjRuralUrban= 0.027
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

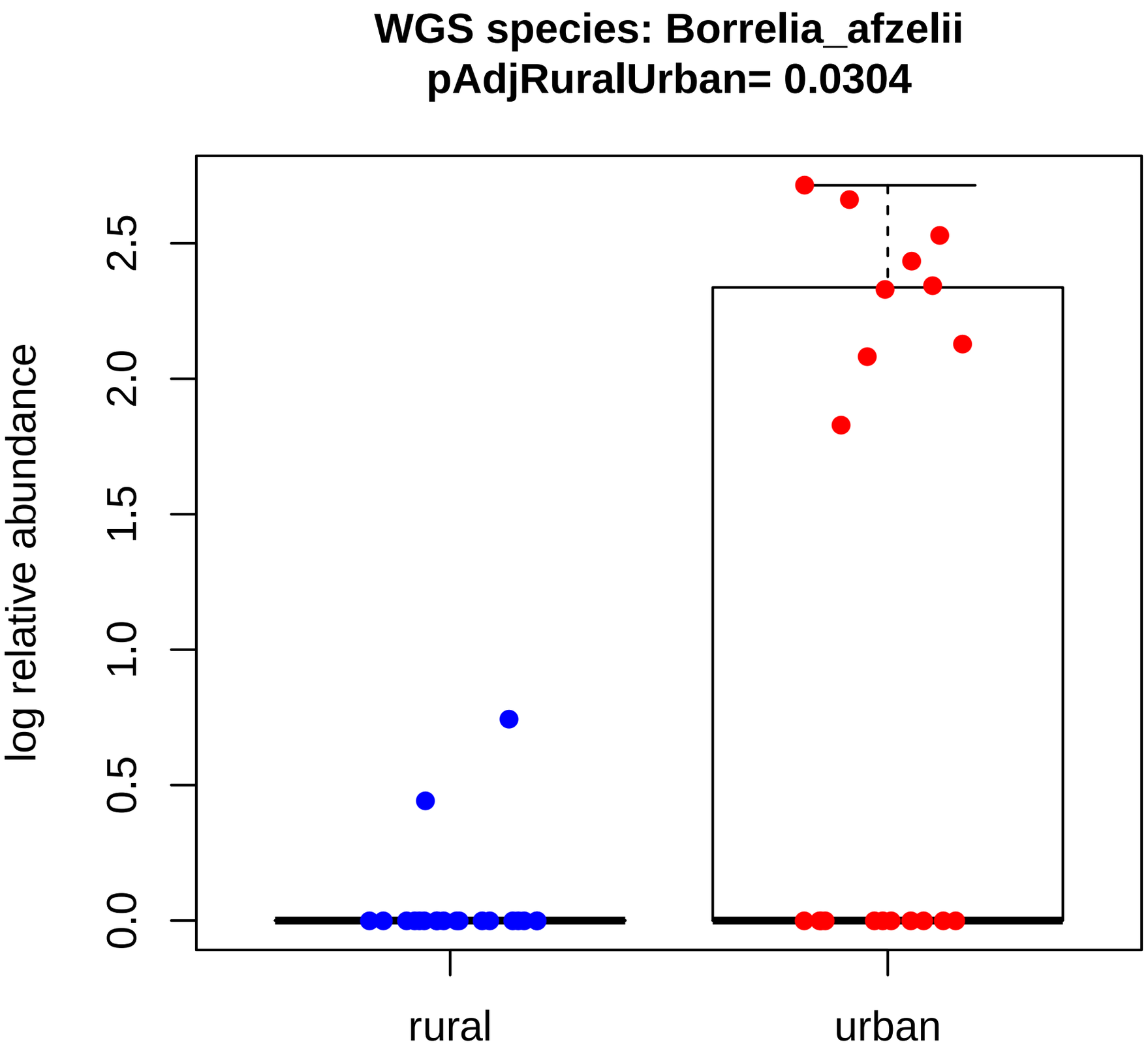

WGS species: Streptococcus_anginosus
pAdjRuralUrban= 0.027
log relative abundance
1
2
3
4
rural
urban

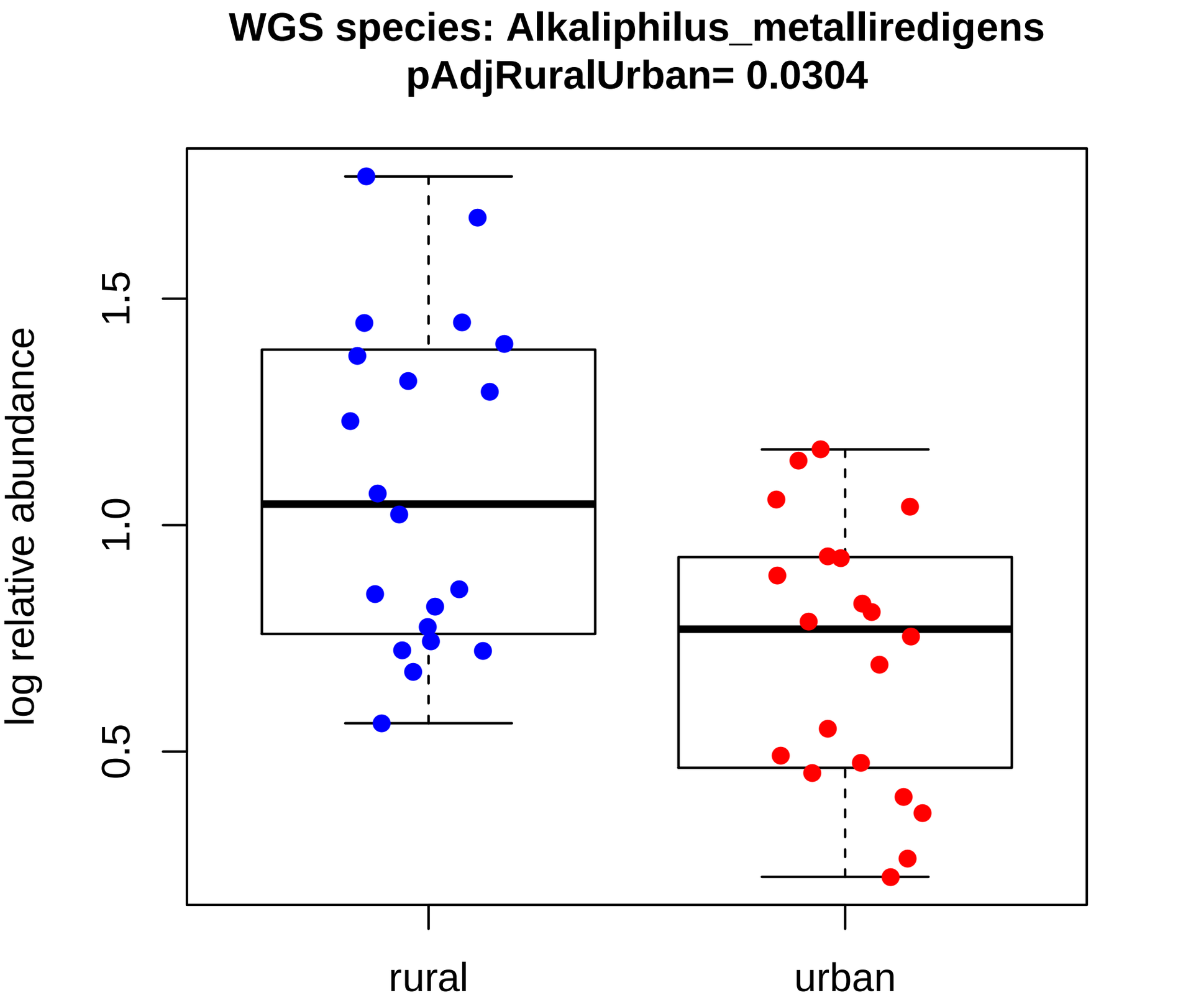

WGS species: Staphylococcus_aureus
pAdjRuralUrban= 0.027
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

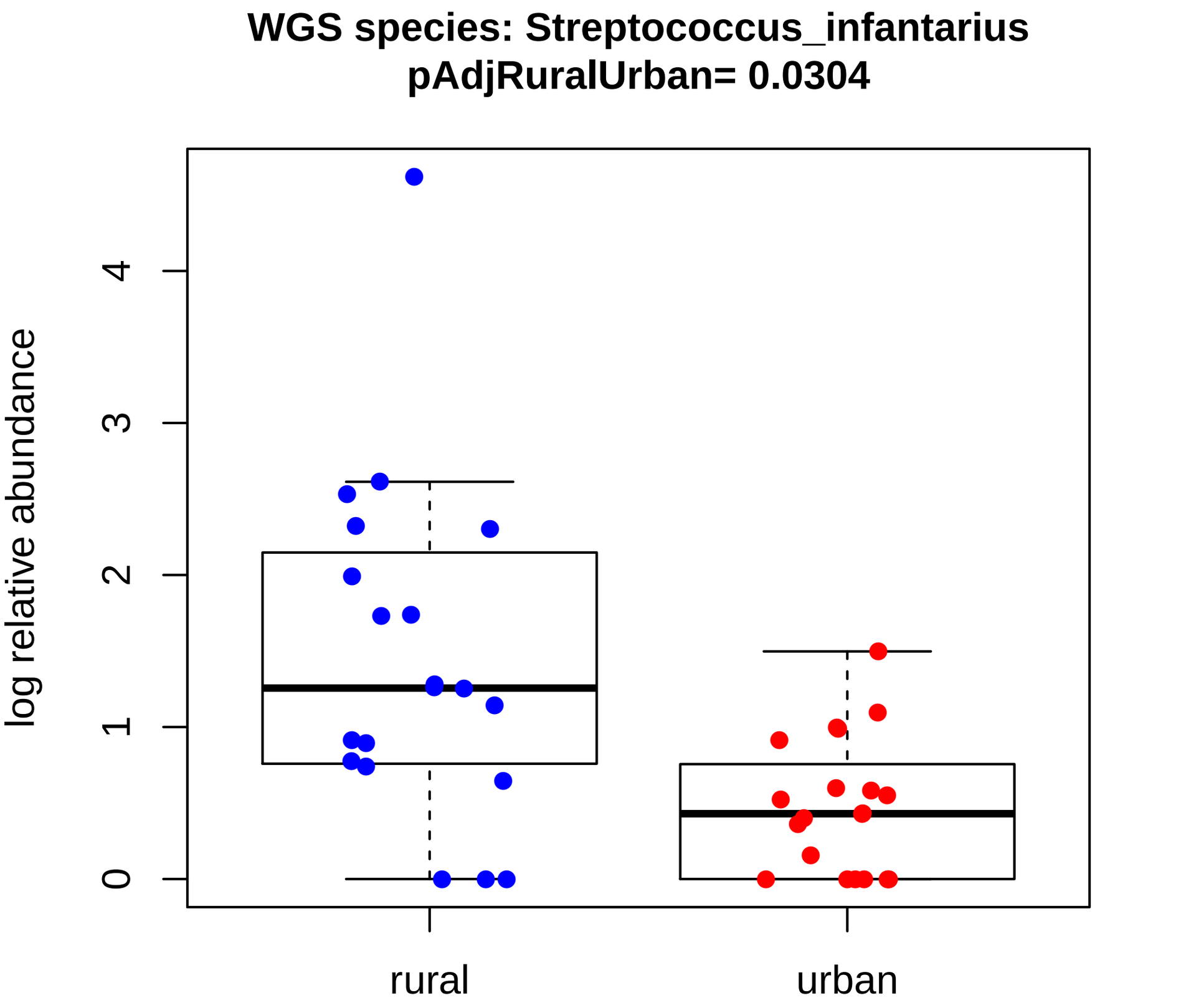

WGS species: Streptococcus_gordonii
pAdjRuralUrban= 0.027
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

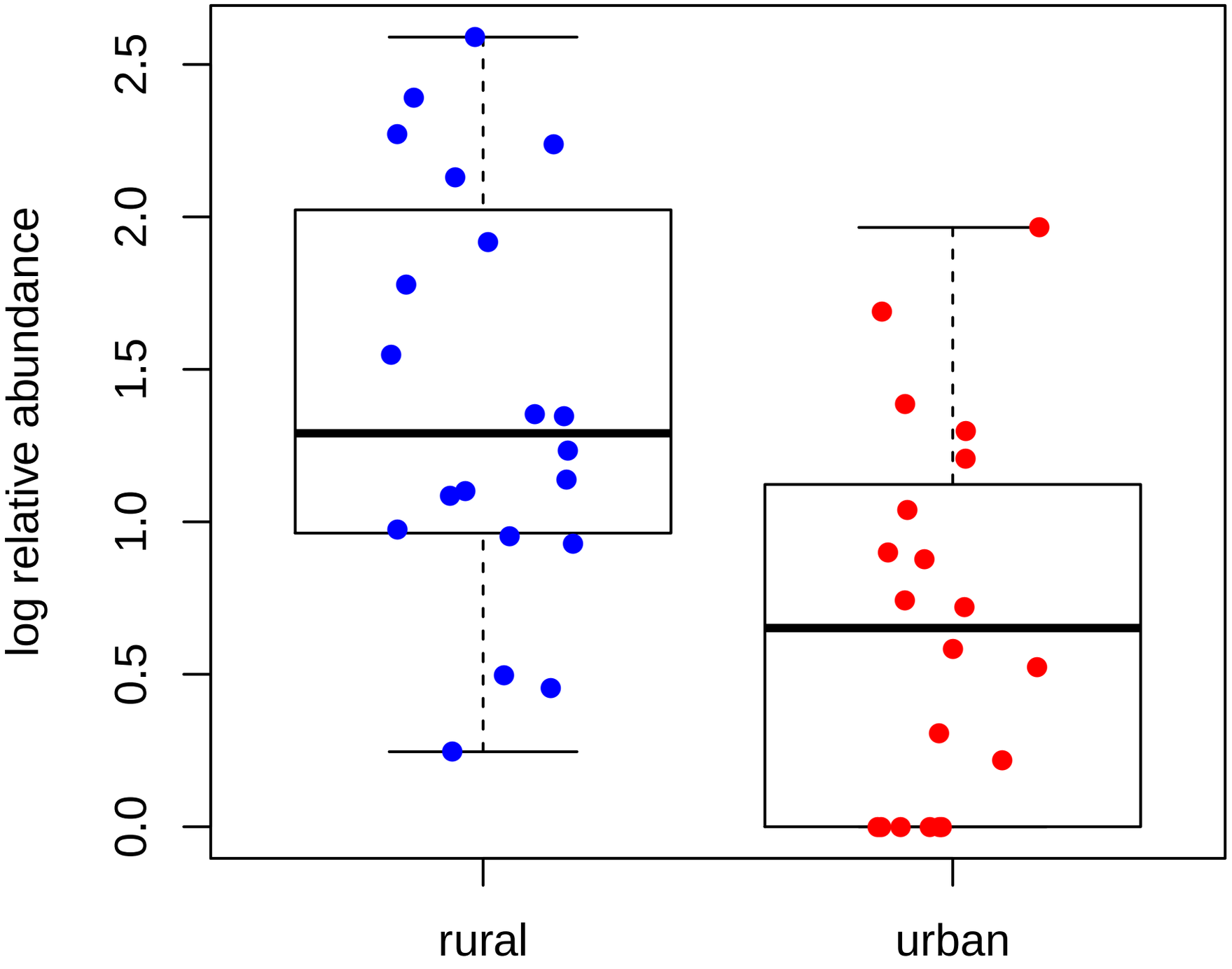

WGS species: Bradyrhizobium_oligotrophicum
pAdjRuralUrban= 0.0293
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

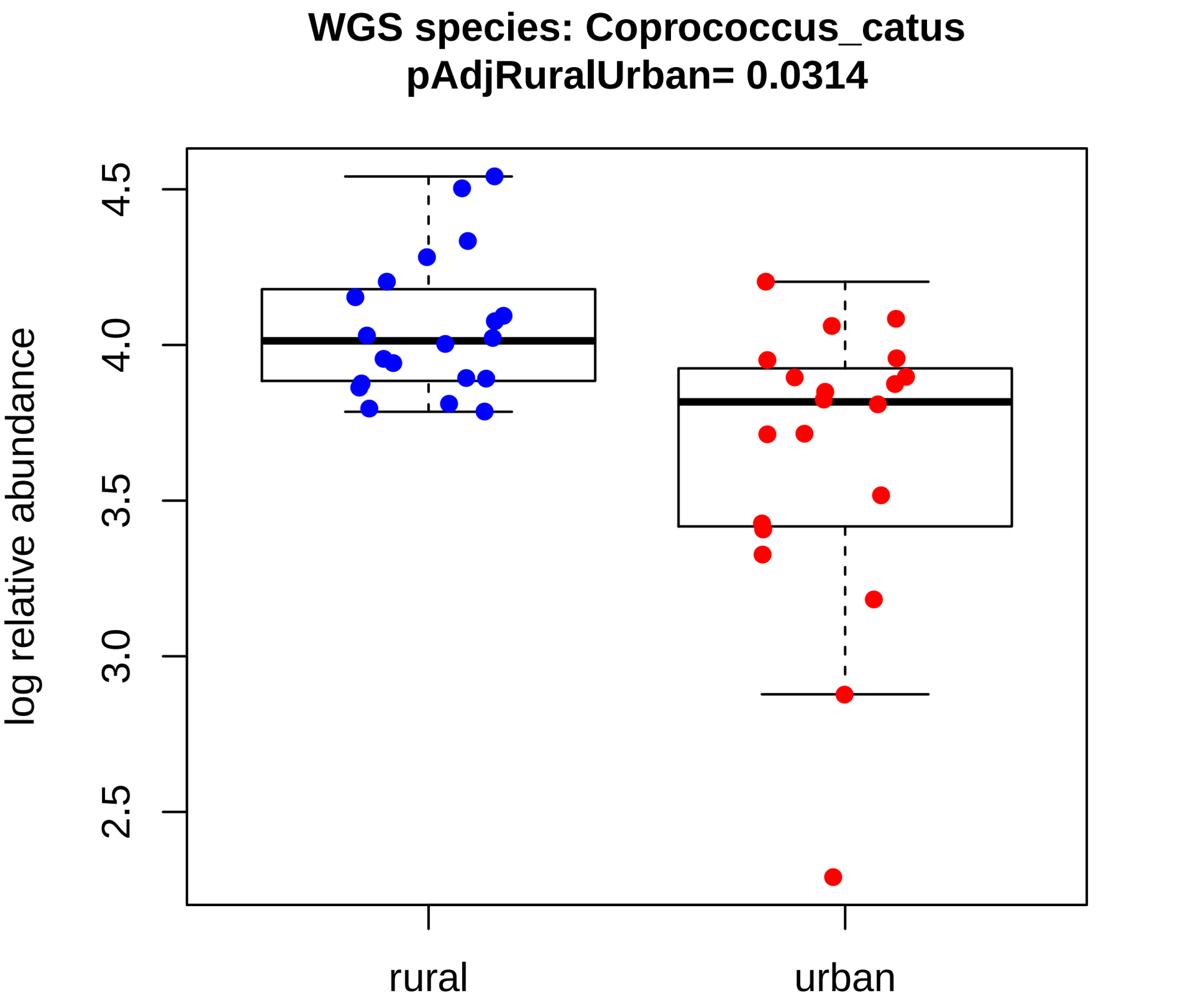

WGS species: Lactobacillus_crispatus
pAdjRuralUrban= 0.0295
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

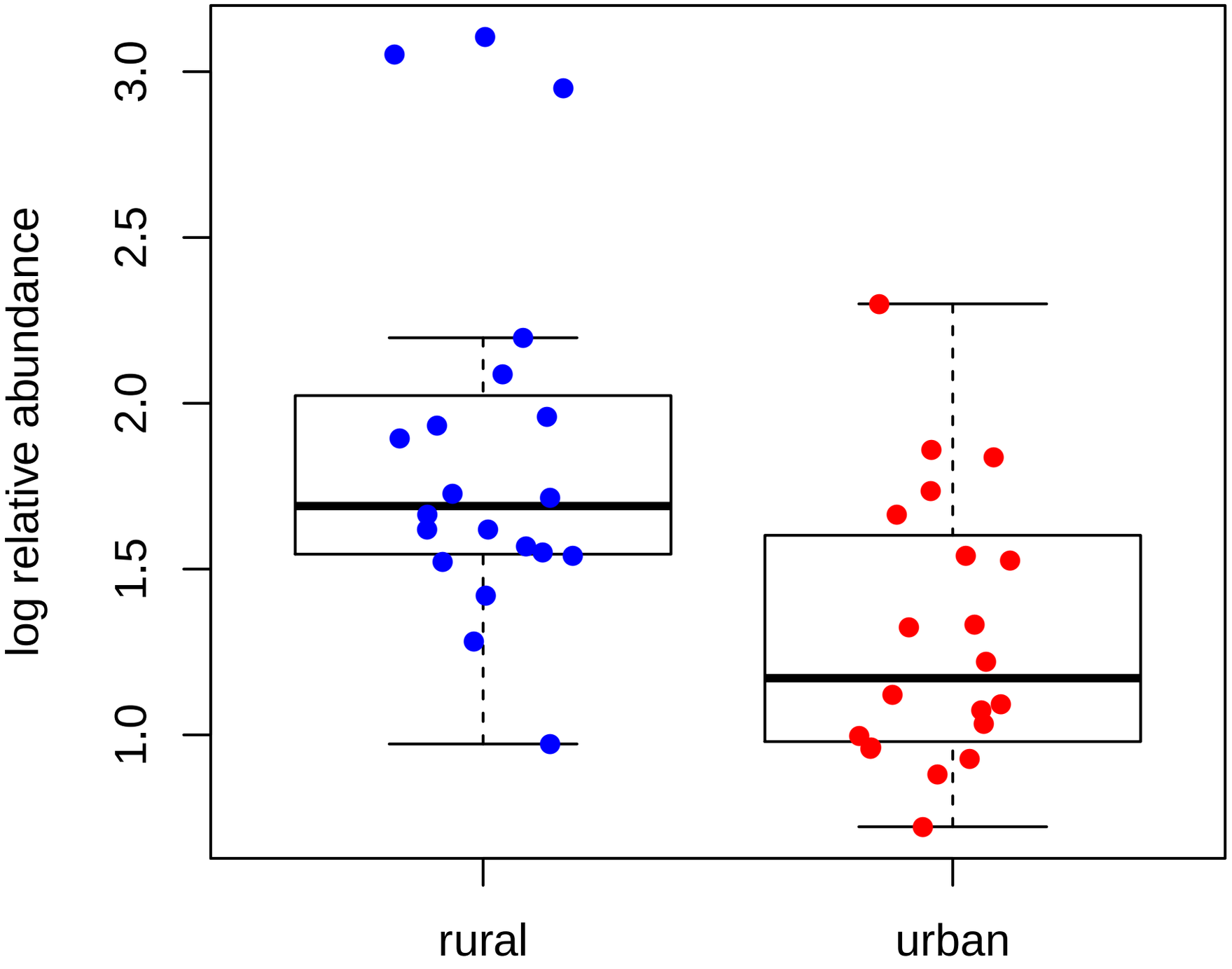

WGS species: Borrelia_afzelii
pAdjRuralUrban= 0.0304
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

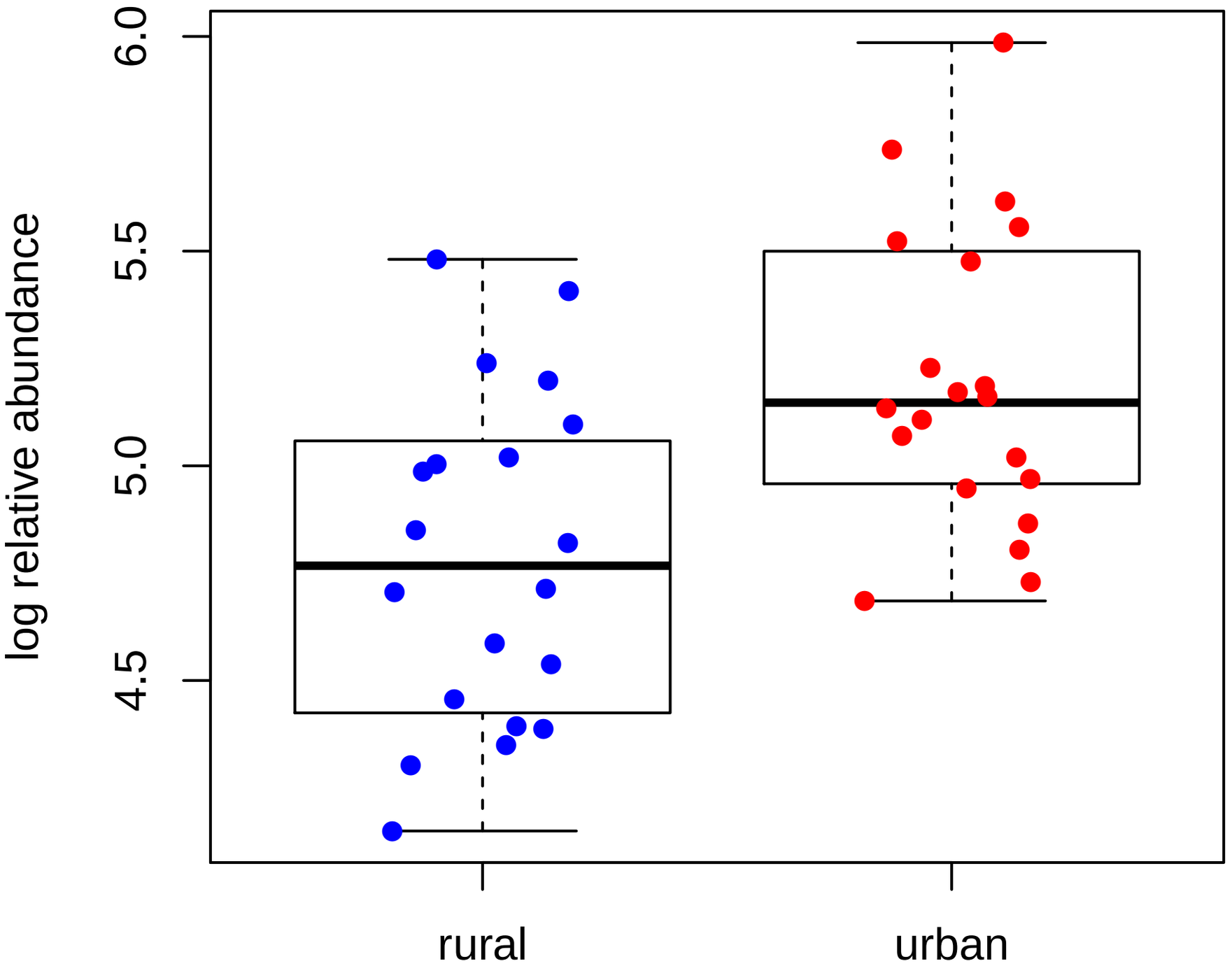

WGS species: Alkaliphilus_metalliredigens
pAdjRuralUrban= 0.0304
log relative abundance
0.5
1.0
1.5
rural
urban

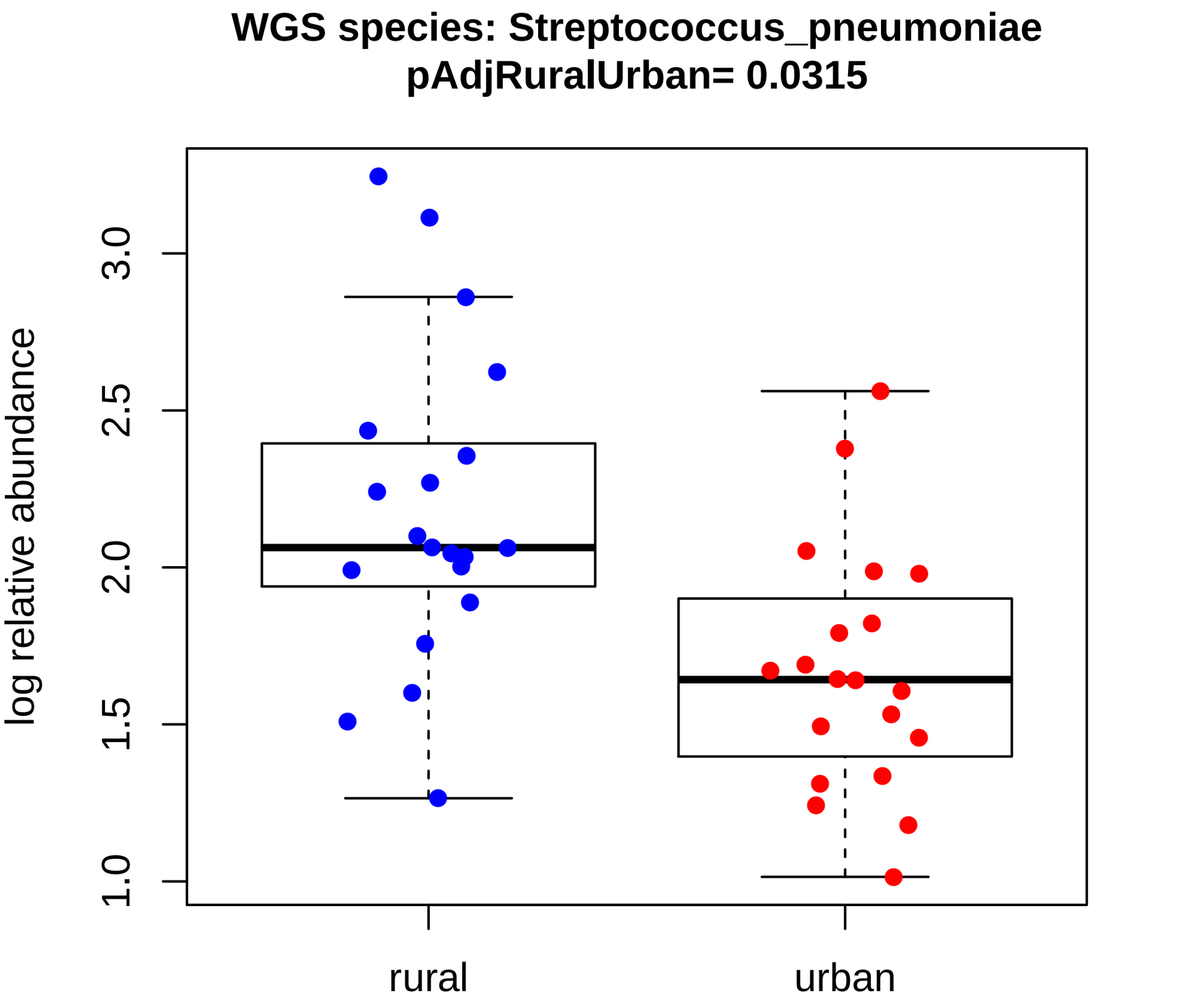

WGS species: Streptococcus_infantarius
pAdjRuralUrban= 0.0304
log relative abundance
0
1
2
3
4
rural
urban

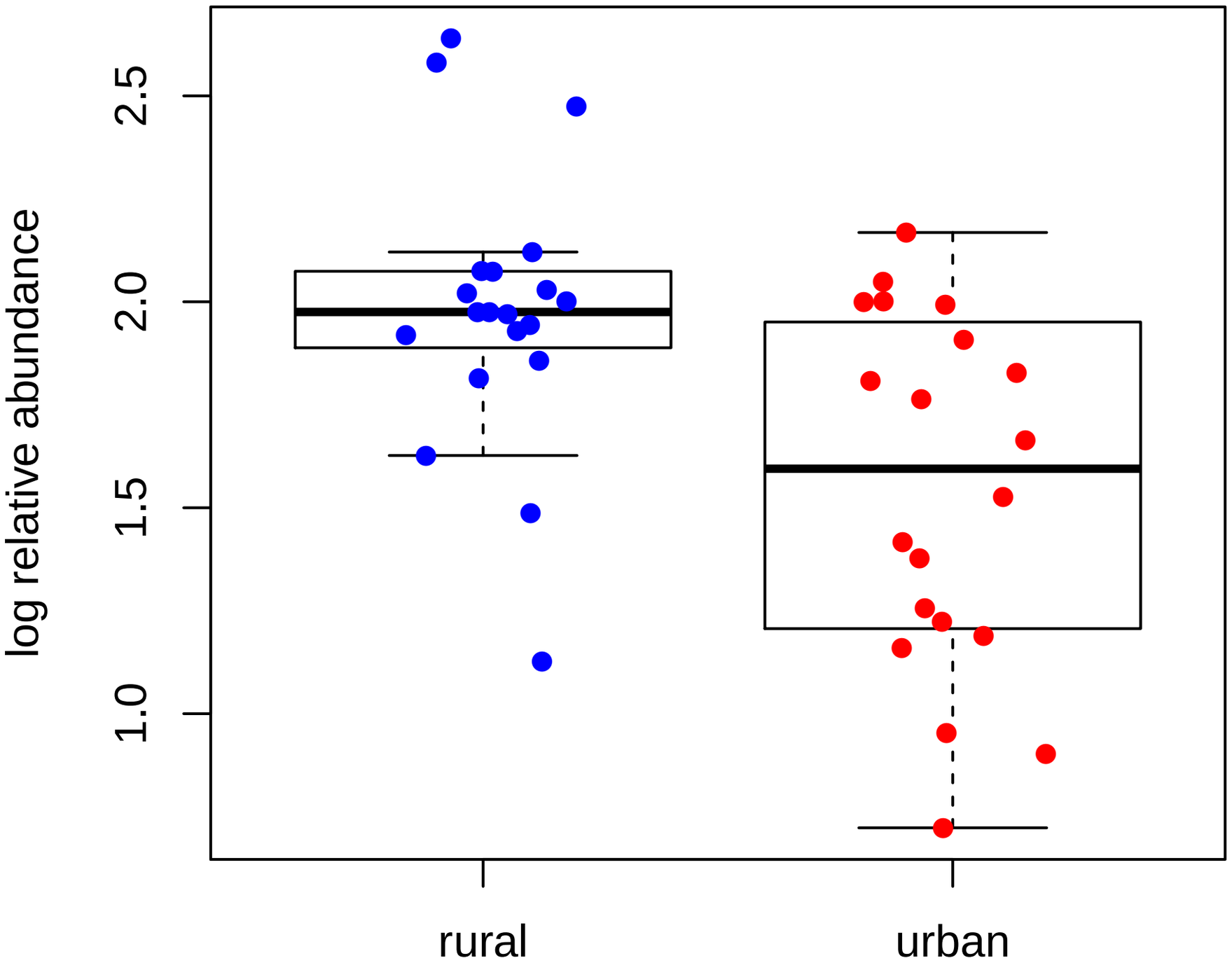

WGS species: Dyadobacter_fermentans
pAdjRuralUrban= 0.0314
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

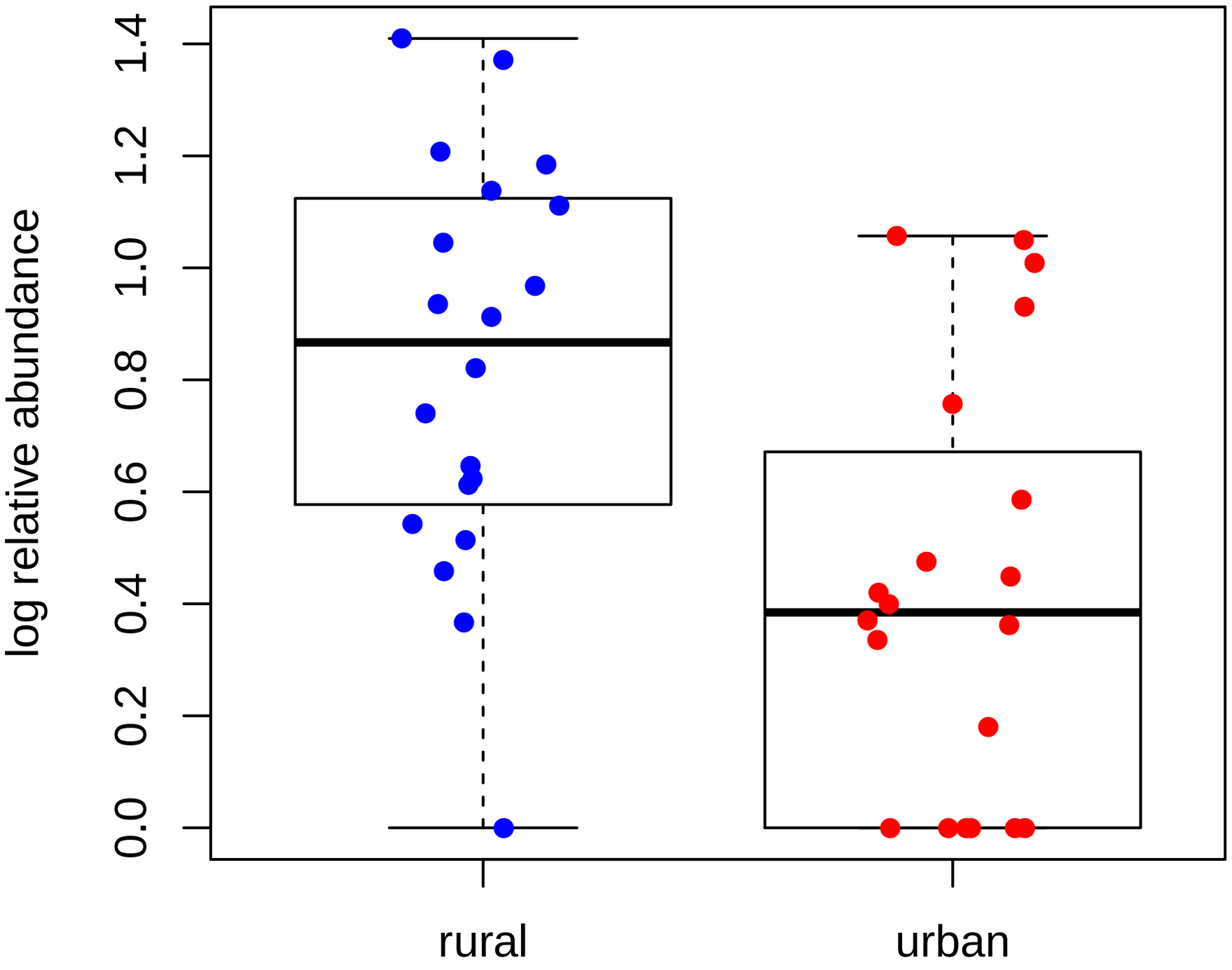

WGS species: Coprococcus_catus
pAdjRuralUrban= 0.0314
log relative abundance
4.5
4.0
3.5
3.0
2.5
rural
urban

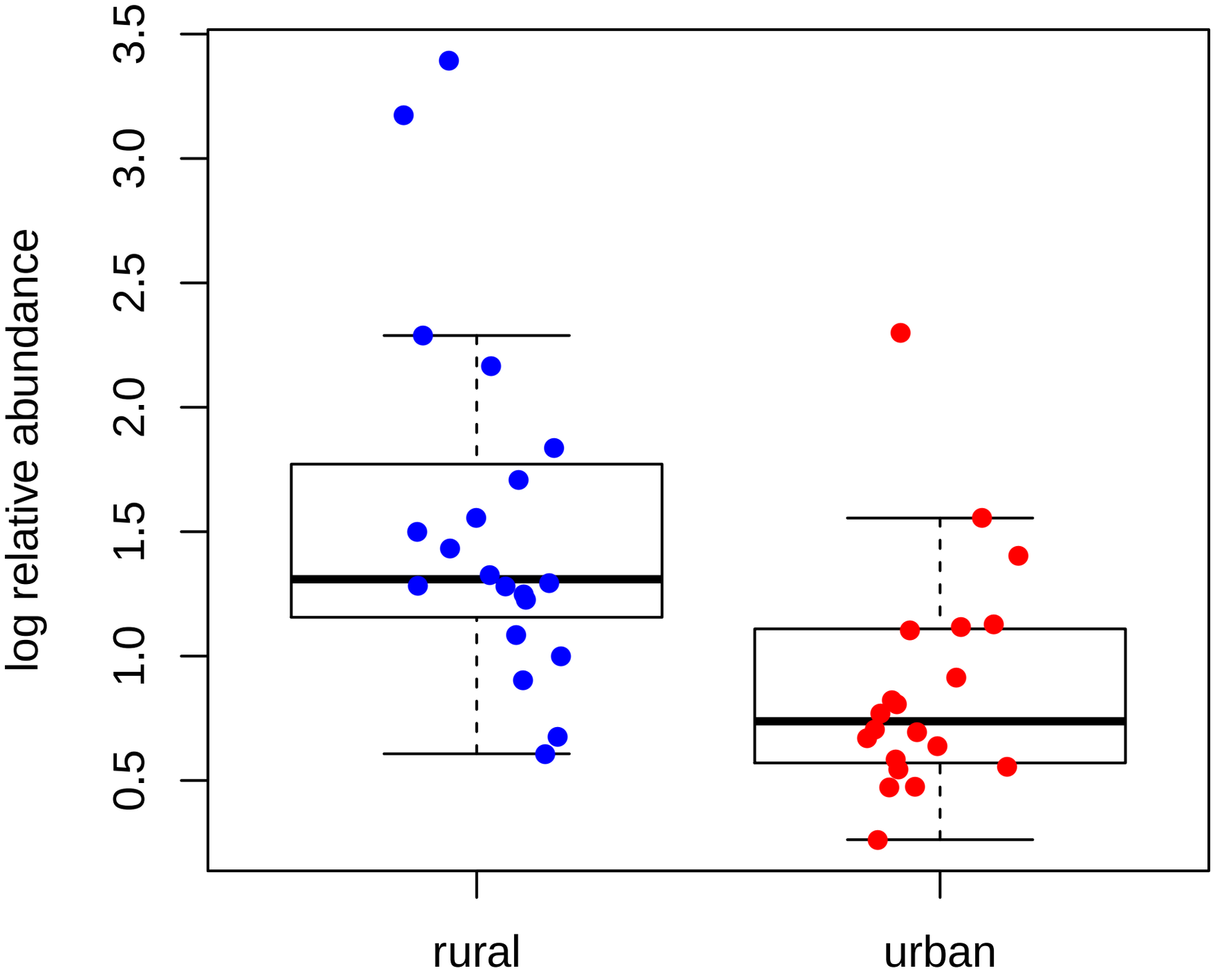

WGS species: Streptococcus_oligofermentans
pAdjRuralUrban= 0.0314
log relative abundance
1.0
1.5
2.0
2.5
3.0
rural
urban

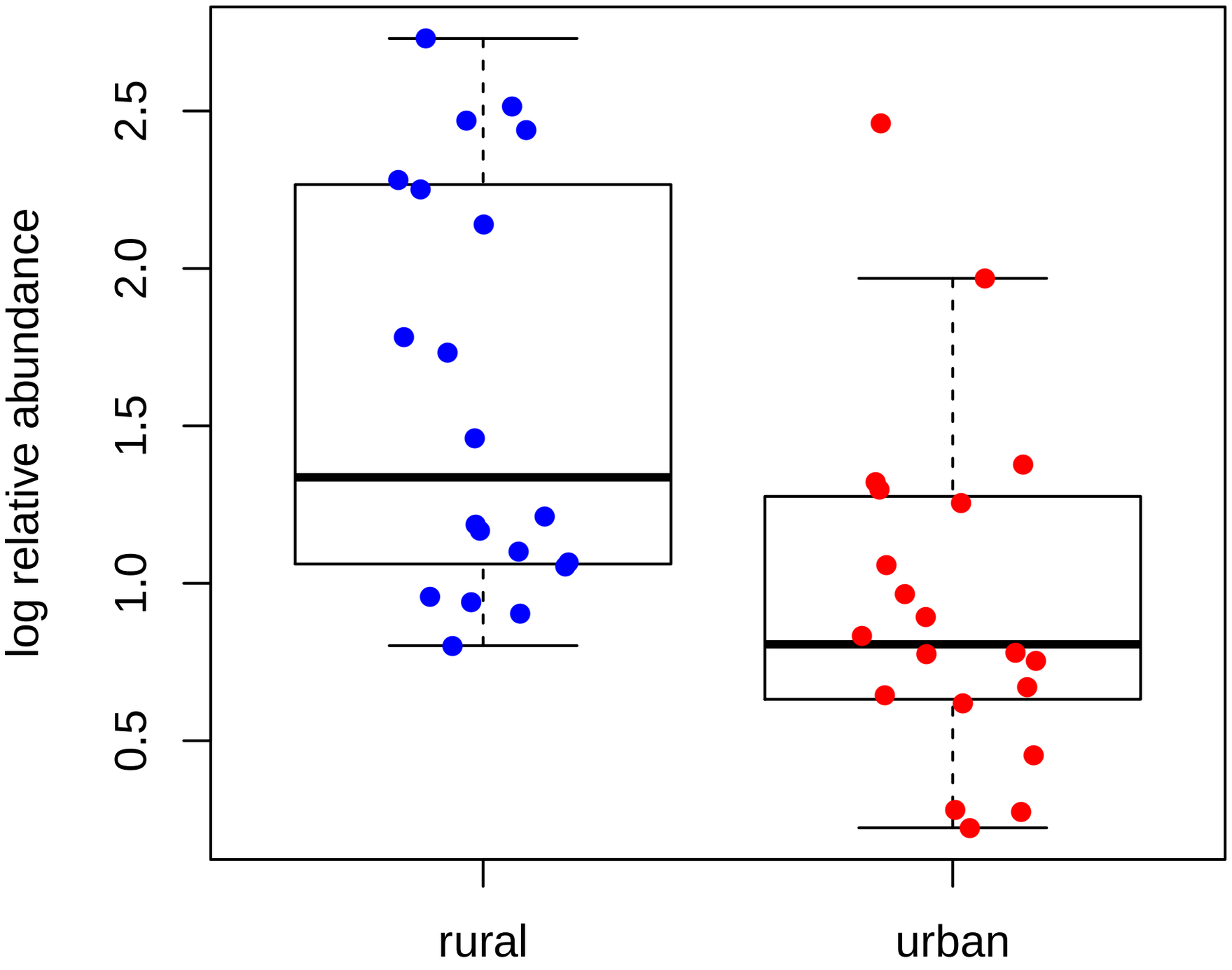

WGS species: Bacteroides_xylanisolvens
pAdjRuralUrban= 0.0315
log relative abundance
6.0
5.5
5.0
4.5
rural
urban

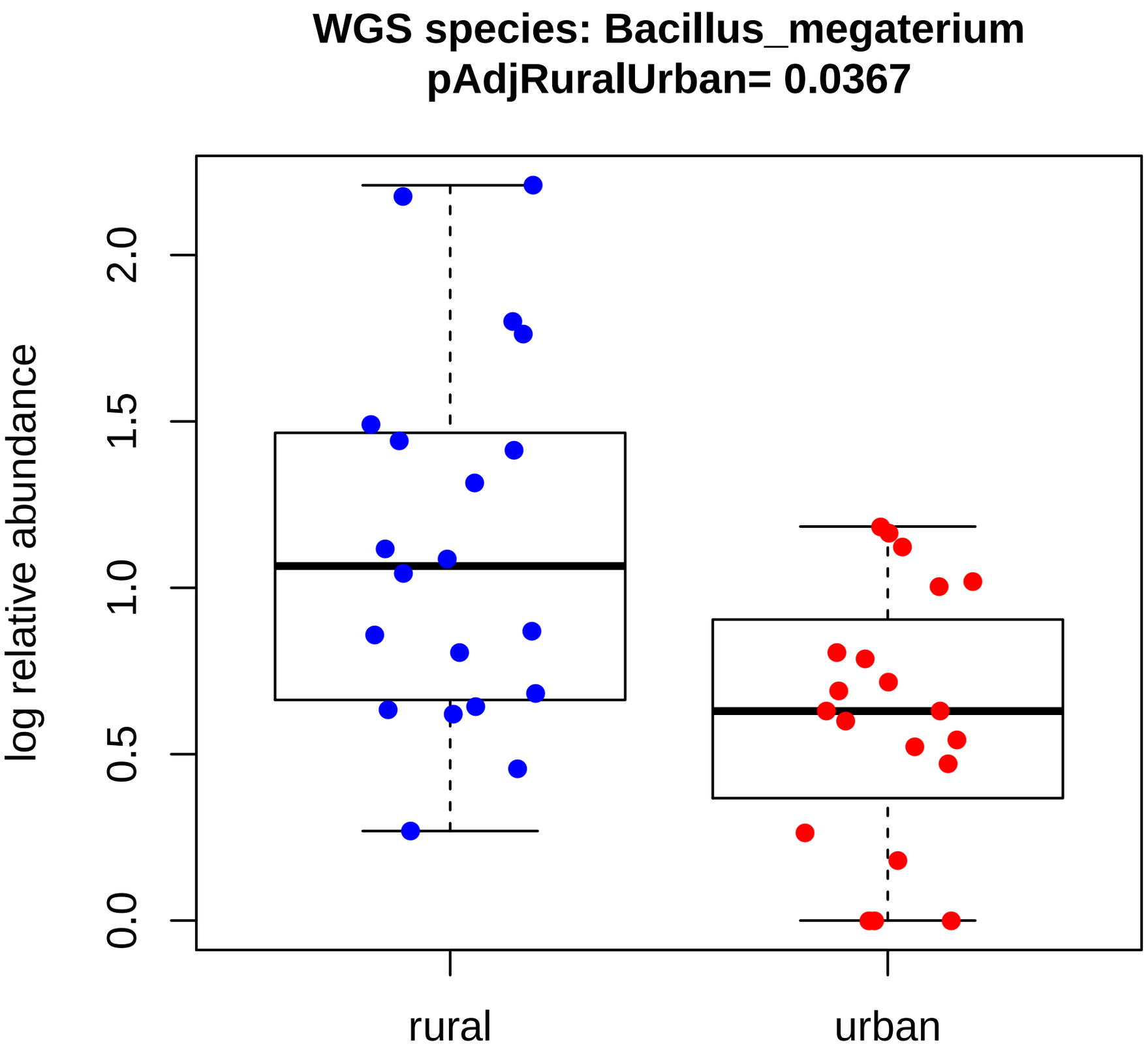

WGS species: Streptococcus_pneumoniae
pAdjRuralUrban= 0.0315
log relative abundance
1.0
1.5
2.0
2.5
3.0
rural
urban

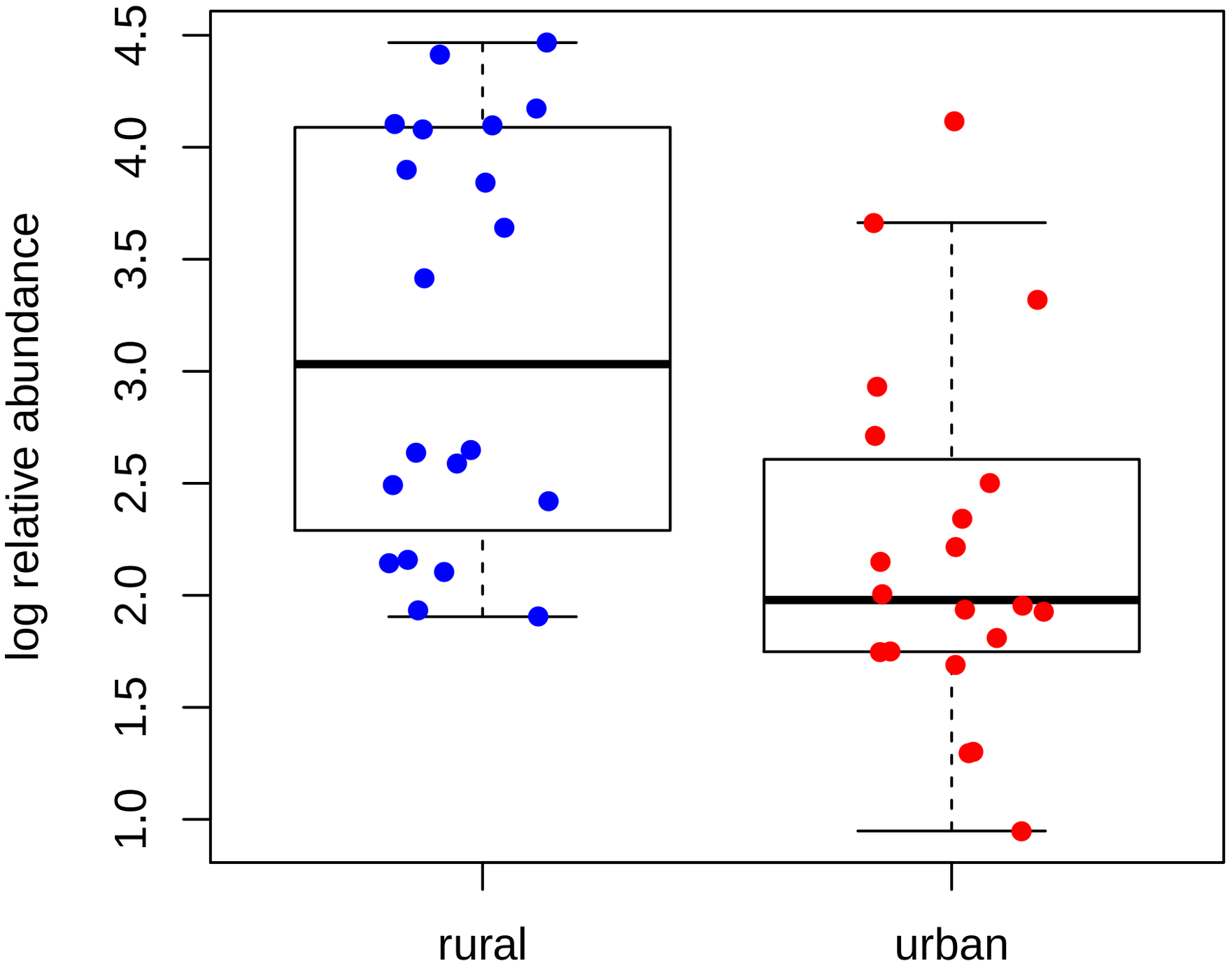

WGS species: Olsenella_uli
pAdjRuralUrban= 0.0315
log relative abundance
1.0
1.5
2.0
2.5
rural
urban

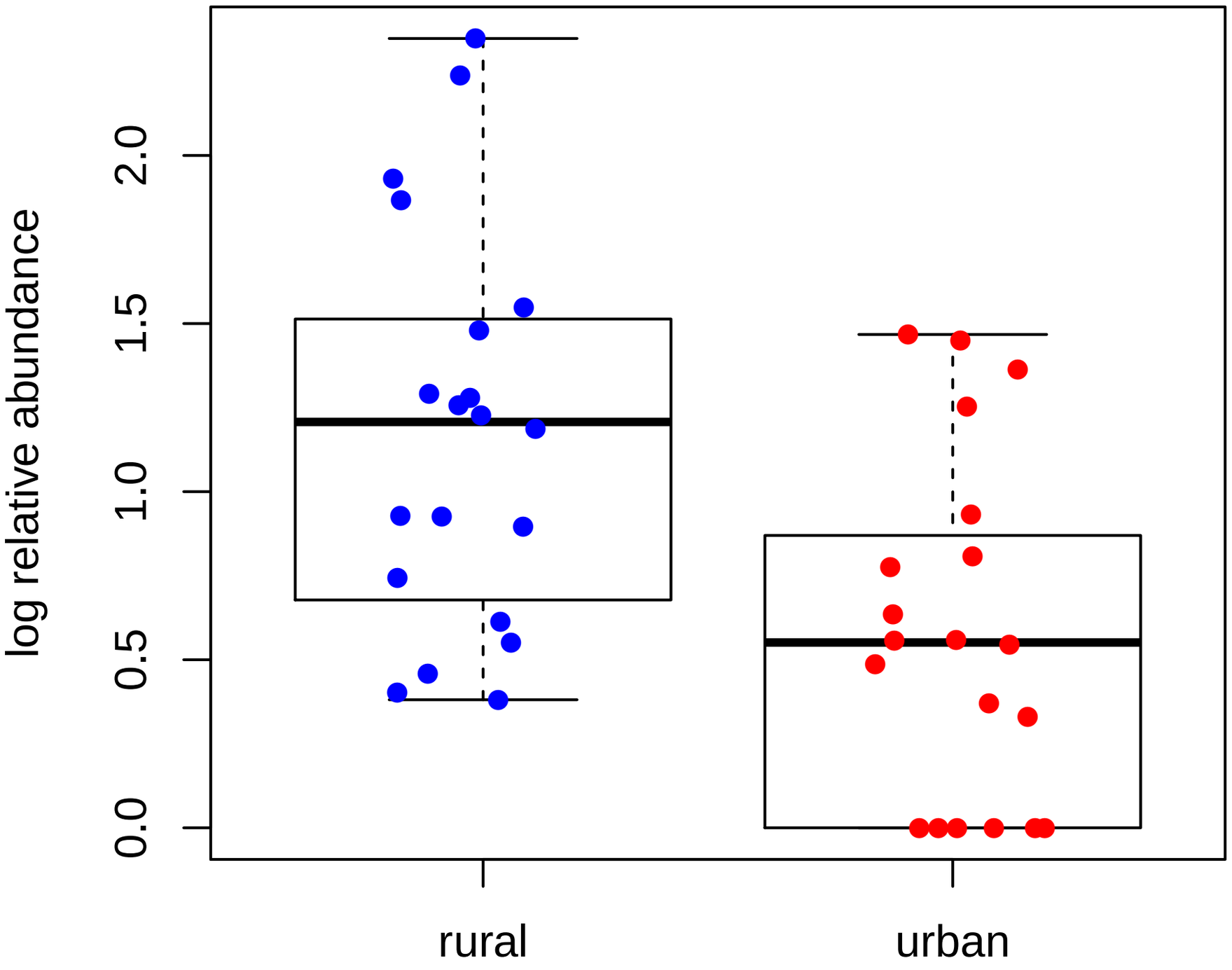

WGS species: Rhodopirellula_baltica
pAdjRuralUrban= 0.0329
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

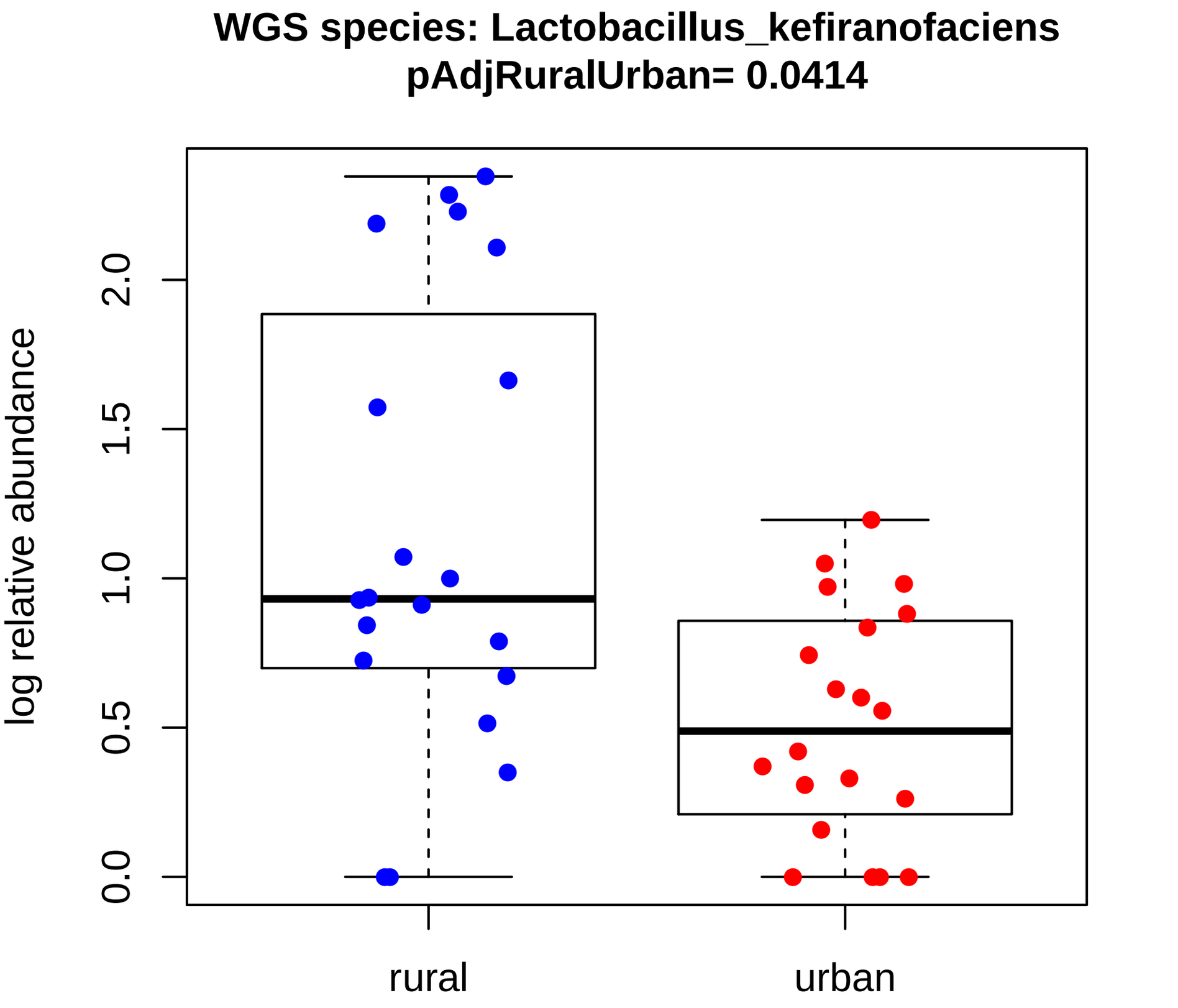

WGS species: Streptococcus_constellatus
pAdjRuralUrban= 0.0362
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

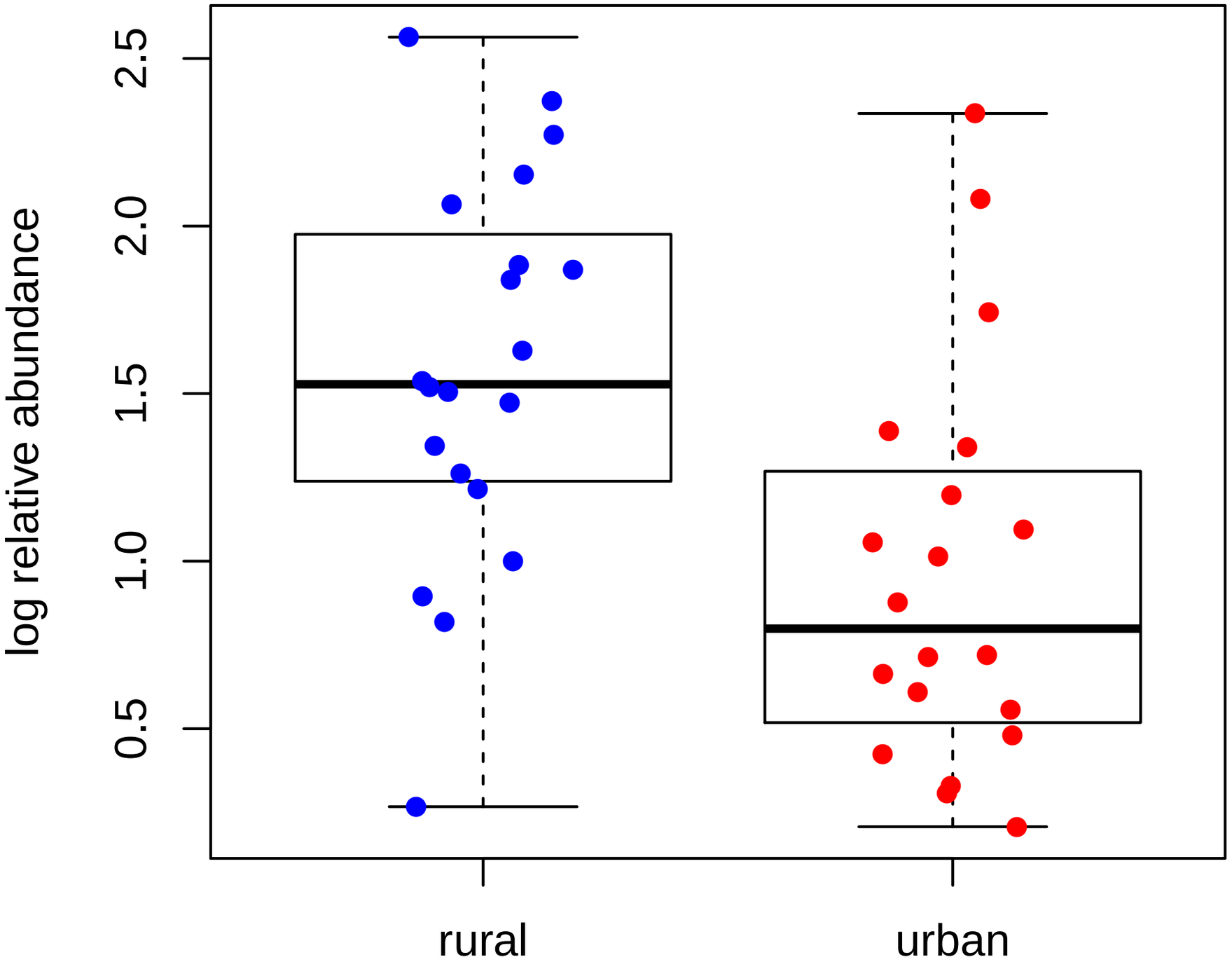

WGS species: X.Clostridium._clariflavum
pAdjRuralUrban= 0.0367
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

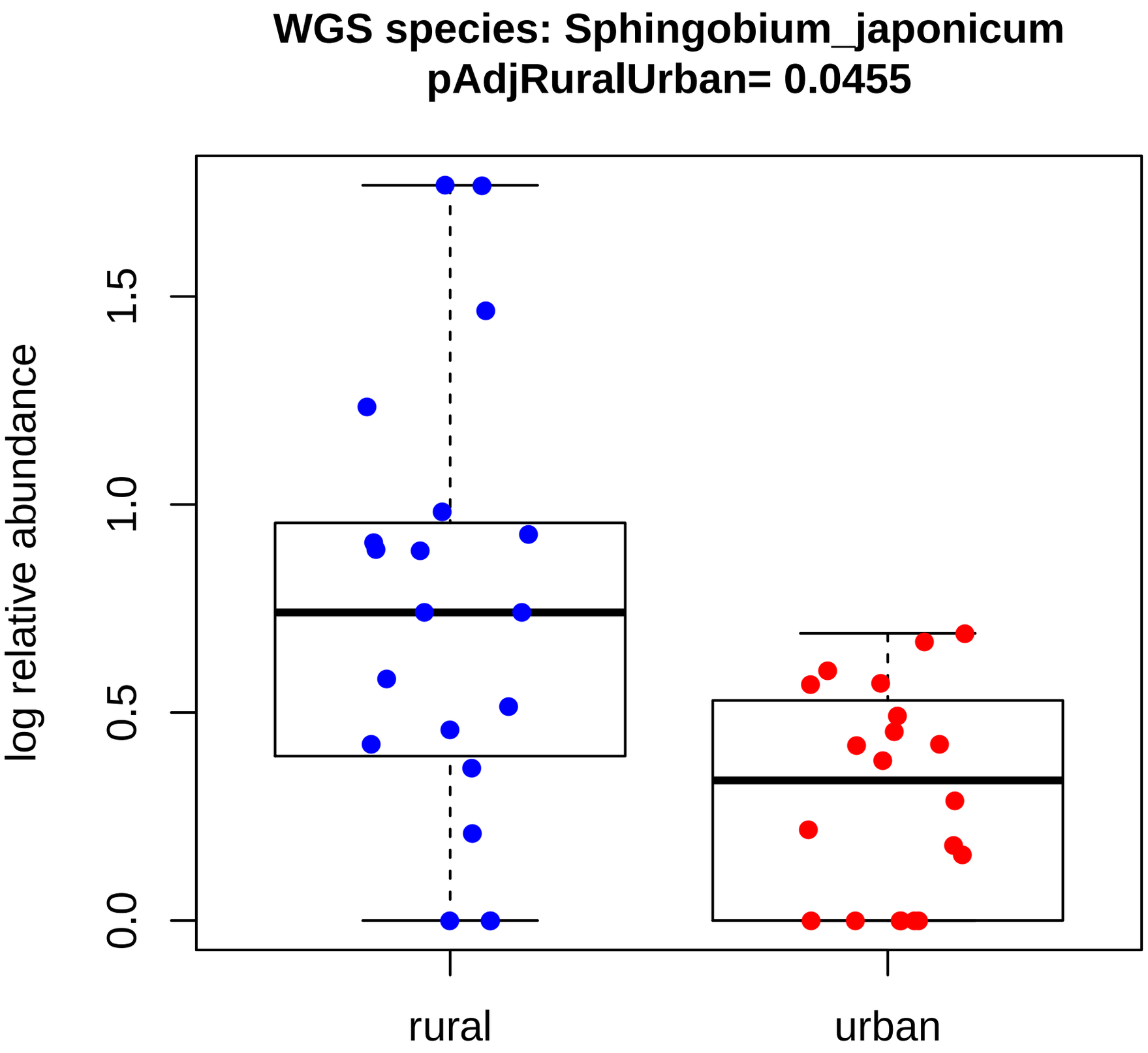

WGS species: Bacillus_megaterium
pAdjRuralUrban= 0.0367
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

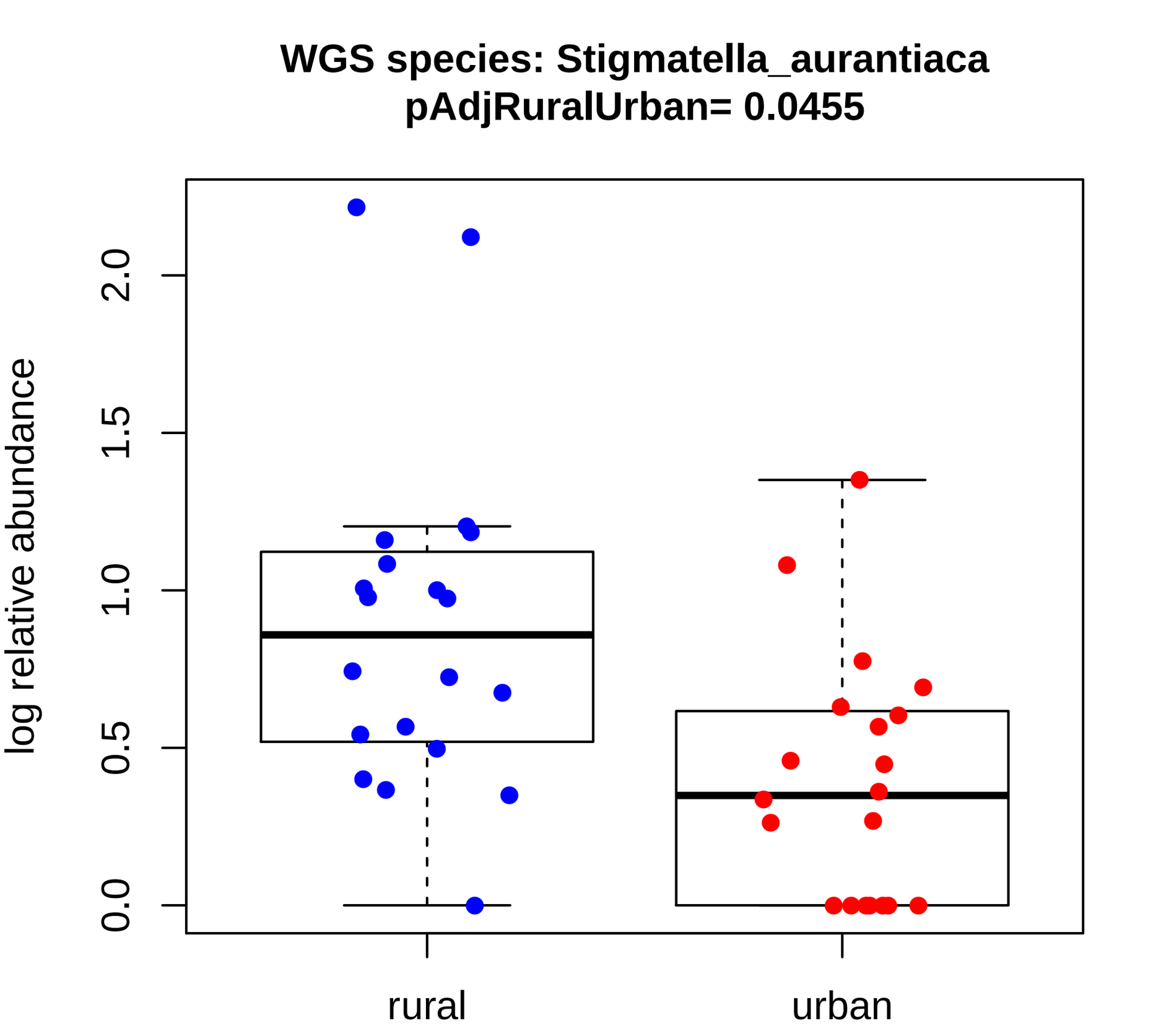

WGS species: Prevotella_ruminicola
pAdjRuralUrban= 0.0367
log relative abundance
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
rural
urban

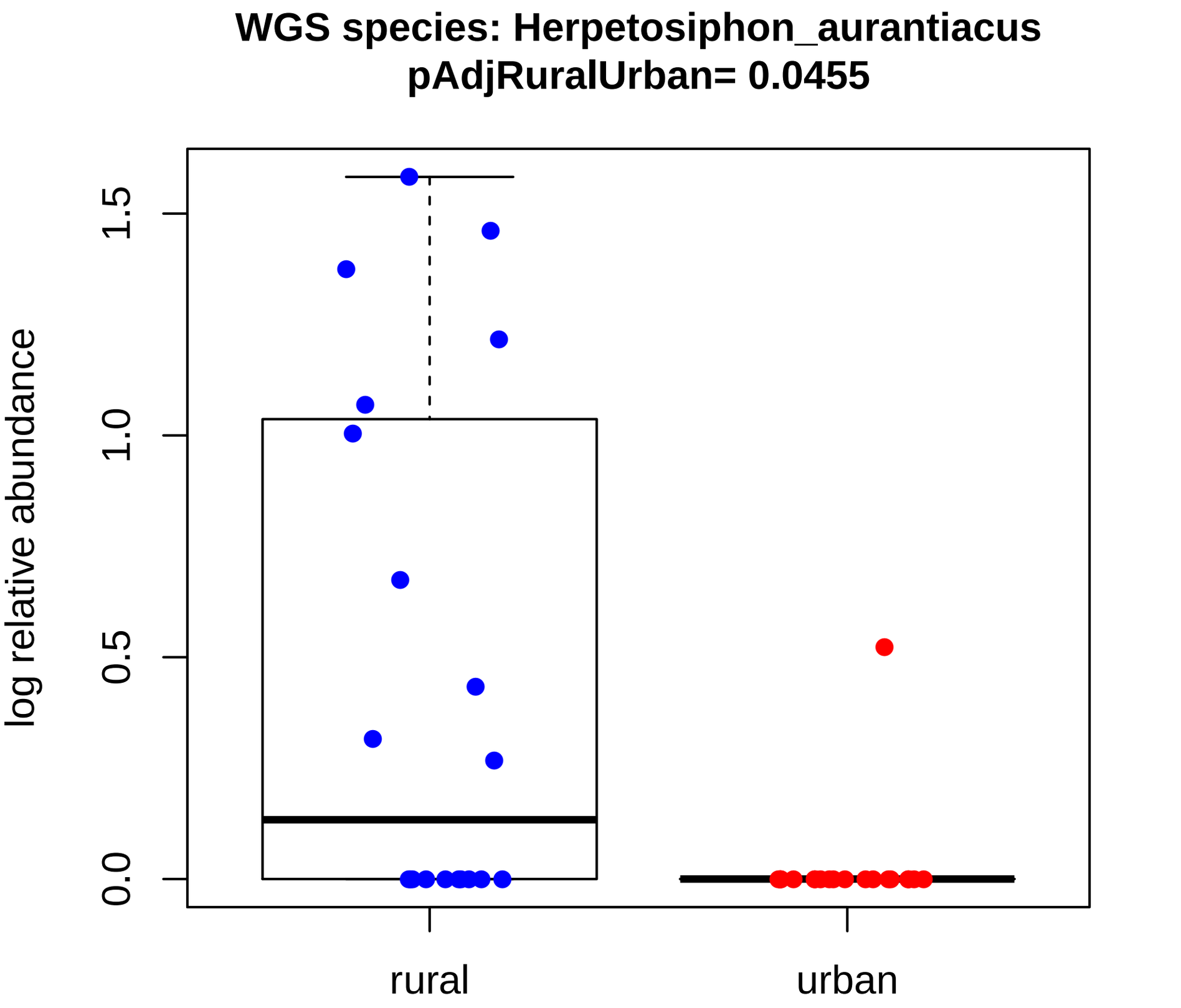

WGS species: Rothia_dentocariosa
pAdjRuralUrban= 0.0367
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

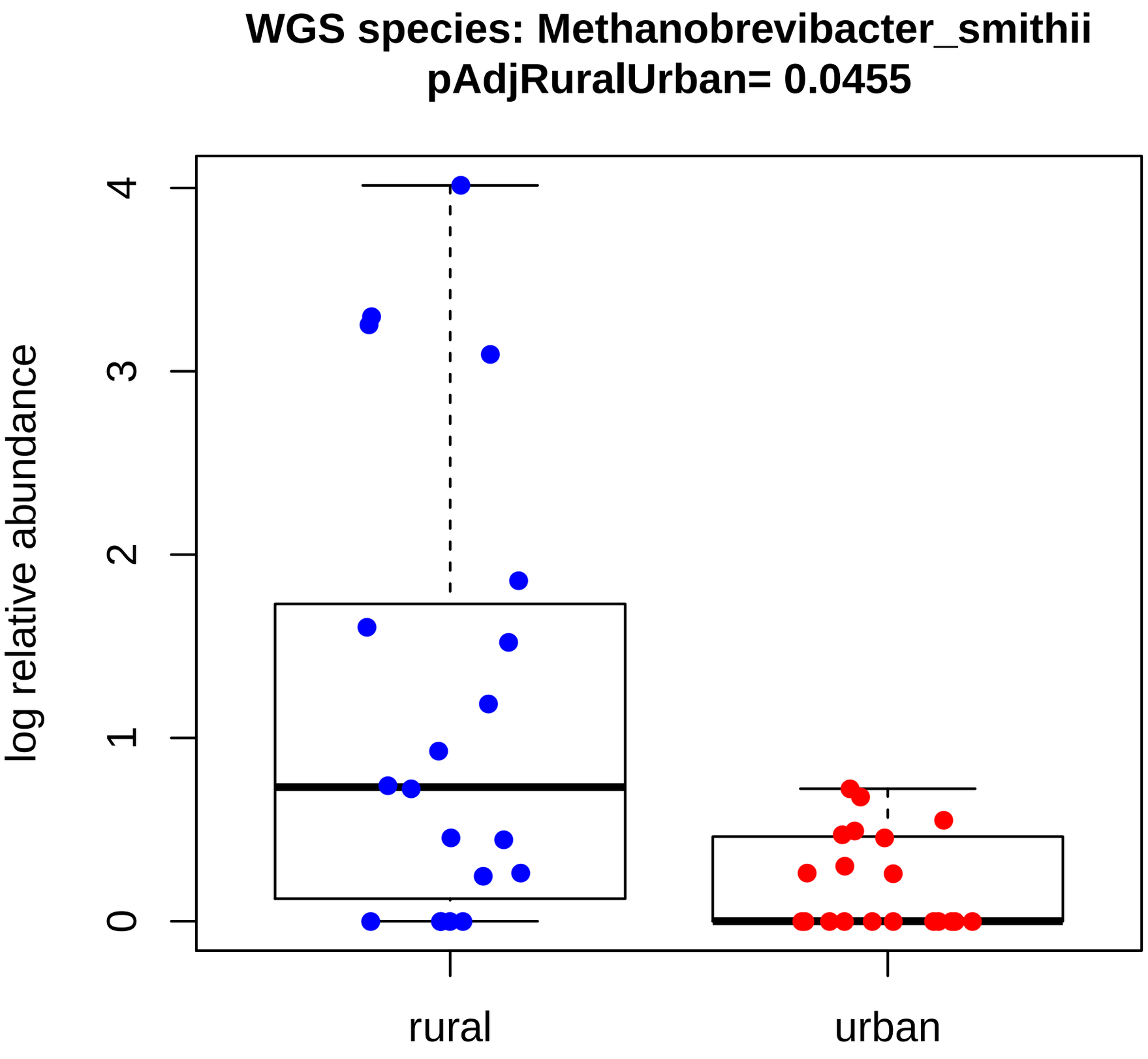

WGS species: Lactobacillus_kefiranofaciens
pAdjRuralUrban= 0.0414
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

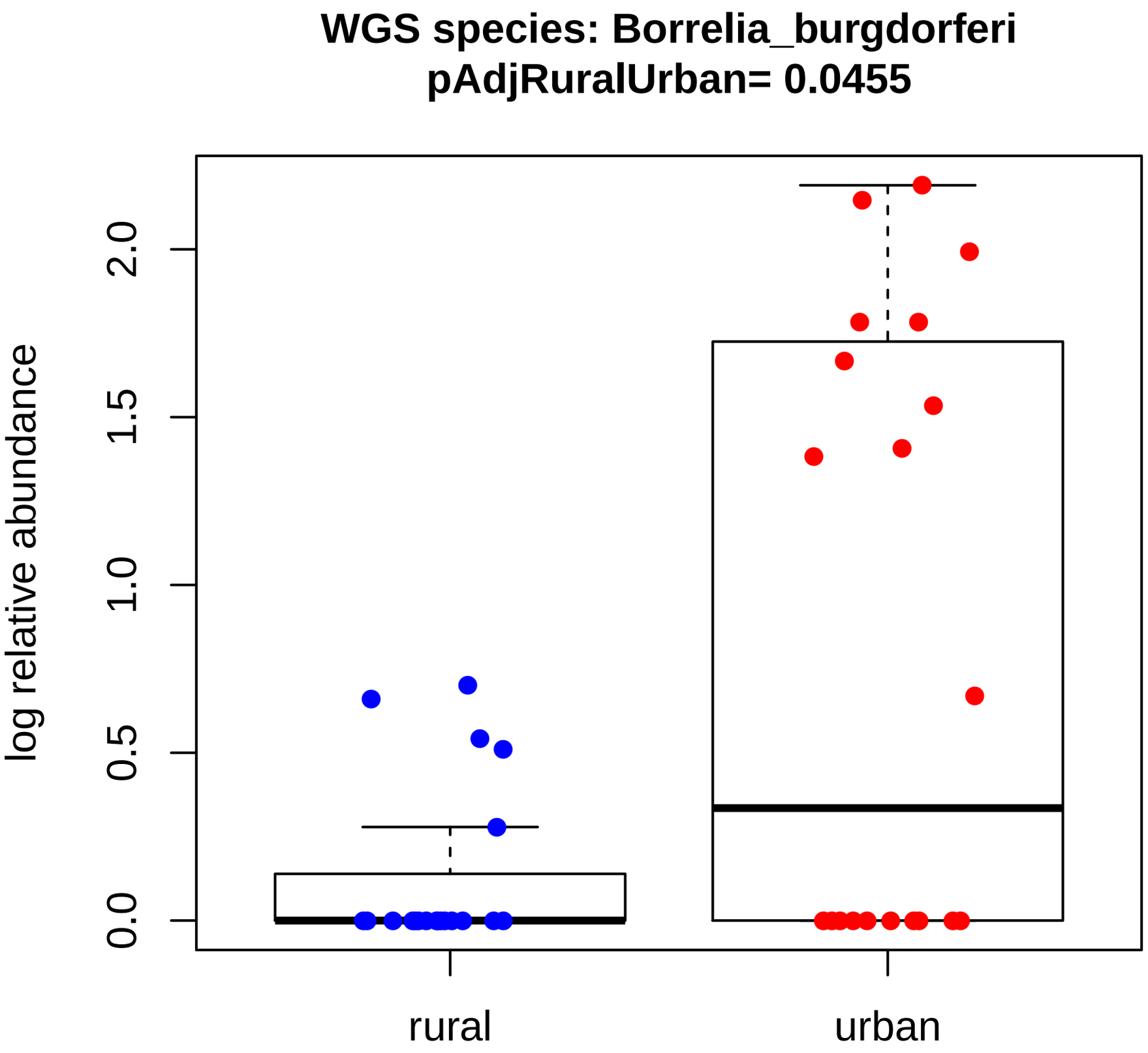

WGS species: Pseudomonas_putida
pAdjRuralUrban= 0.0445
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

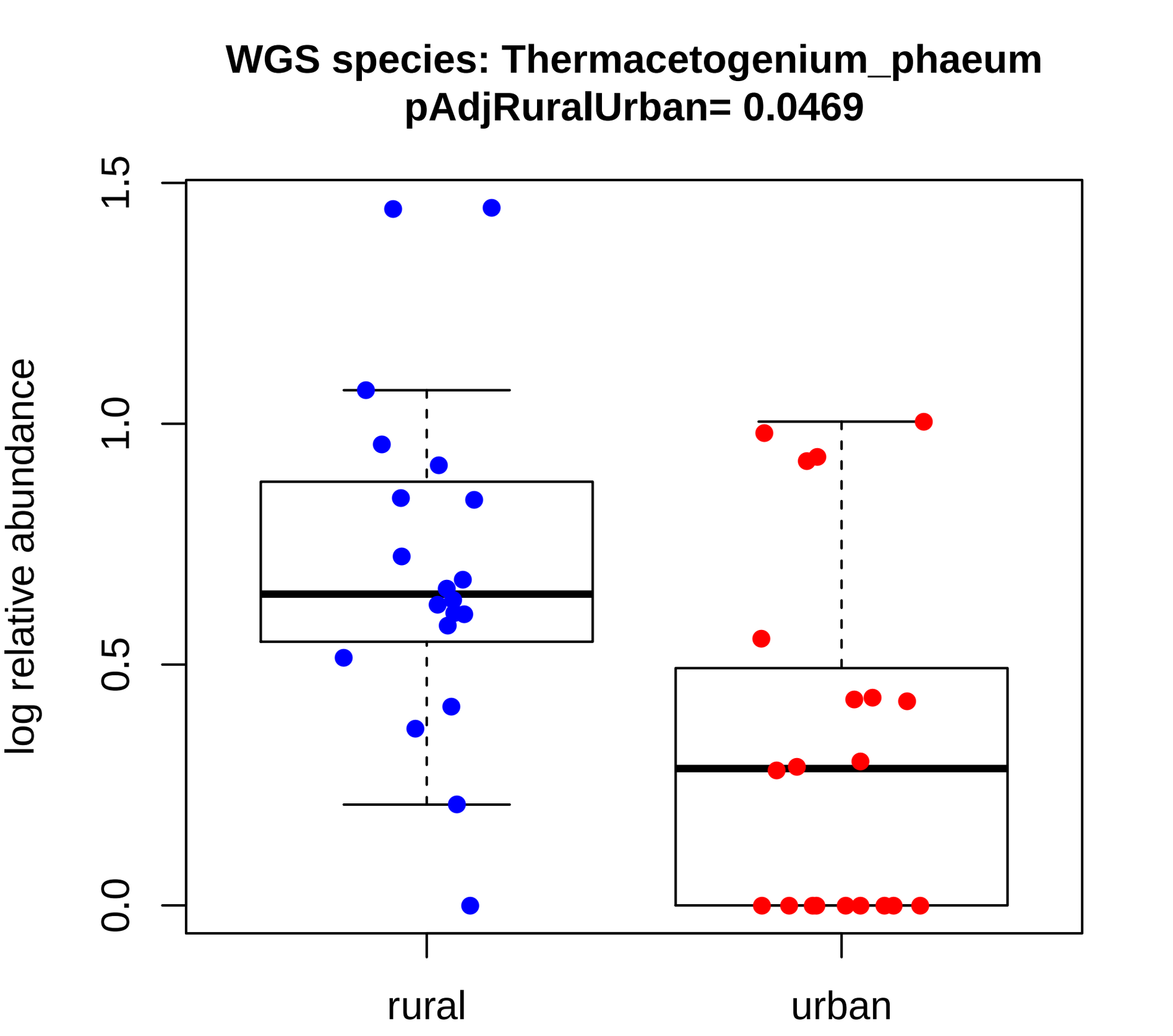

WGS species: Sphingobium_japonicum
pAdjRuralUrban= 0.0455
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

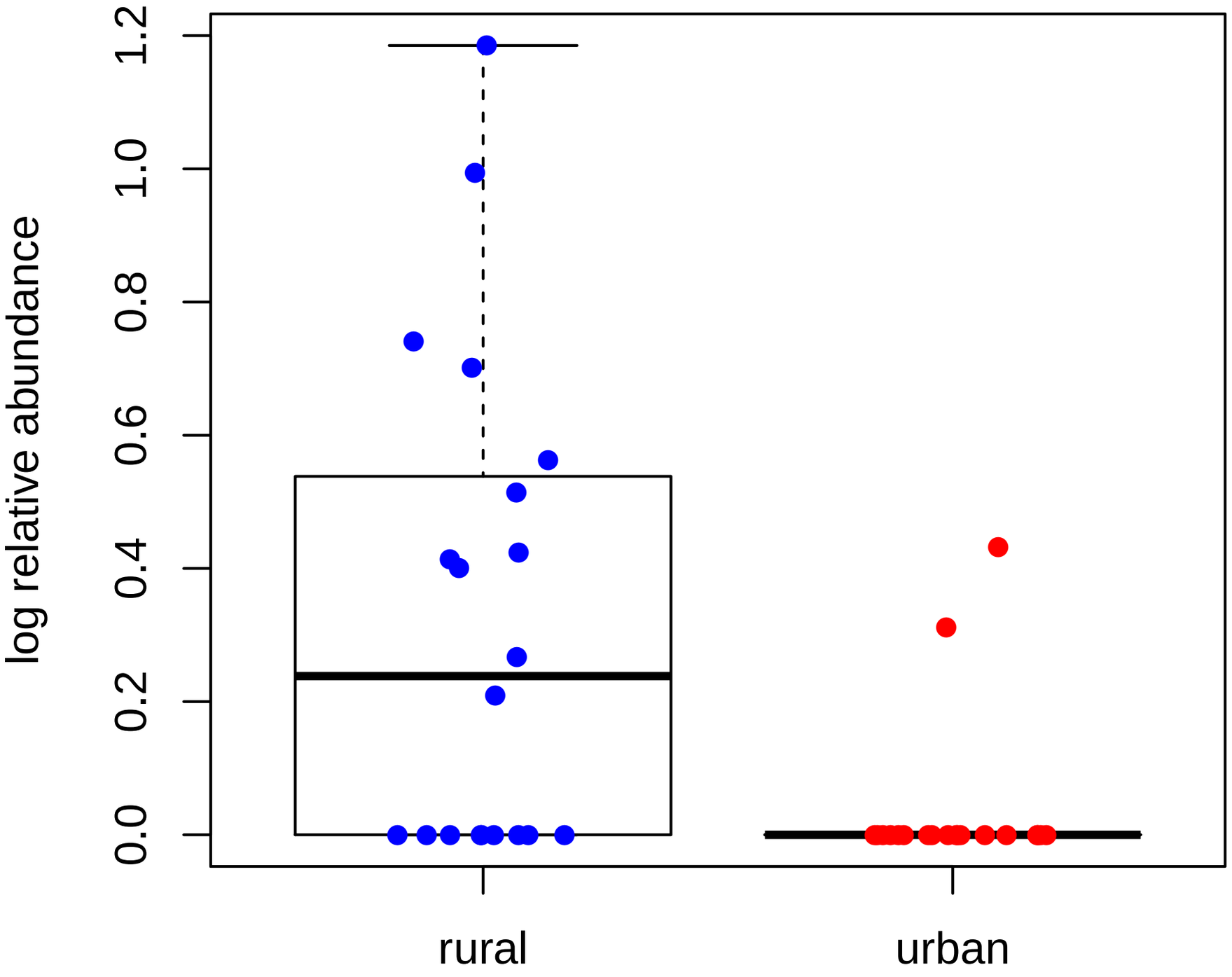

WGS species: Stigmatella_aurantiaca
pAdjRuralUrban= 0.0455
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

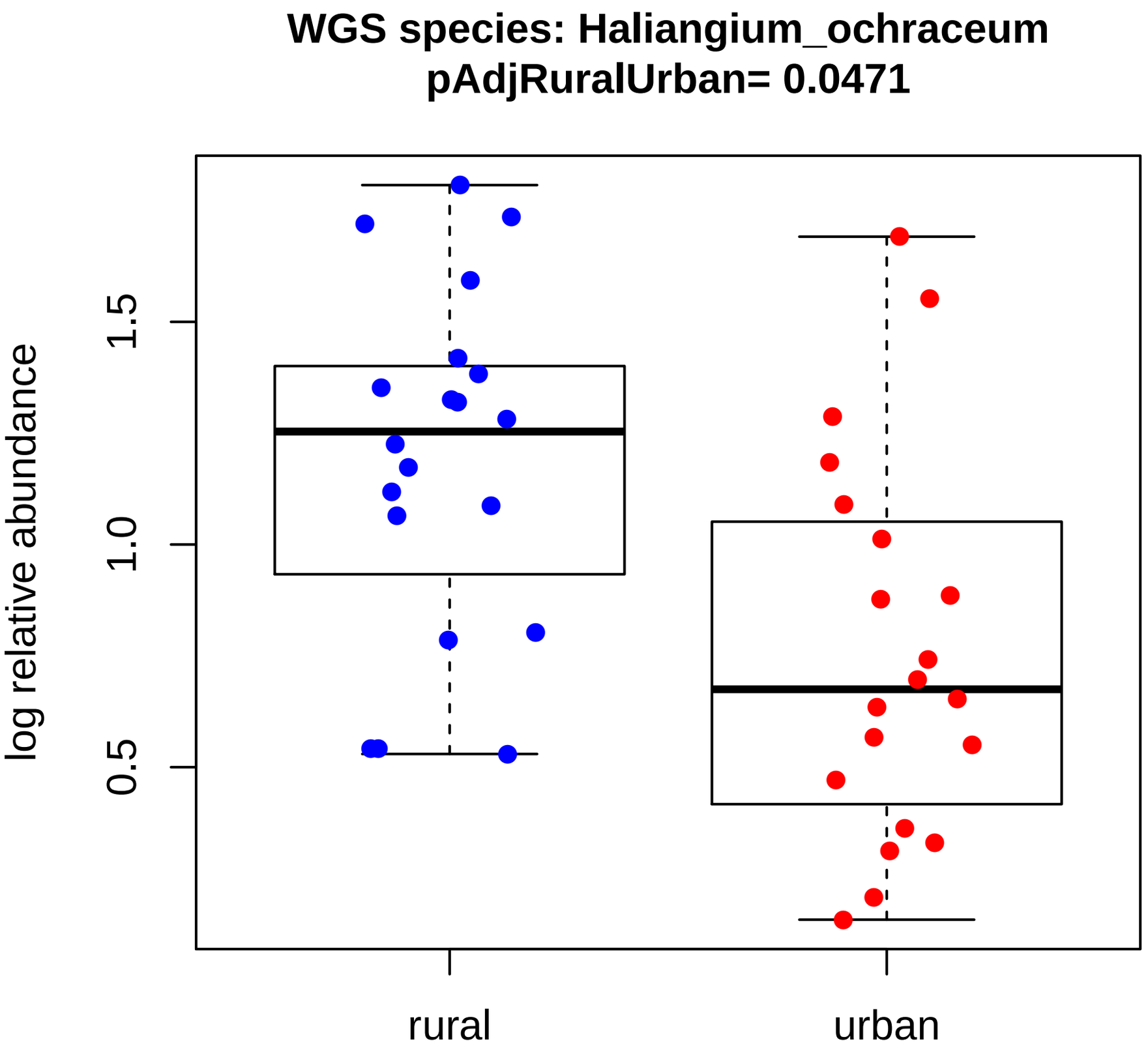

WGS species: Herpetosiphon_aurantiacus
pAdjRuralUrban= 0.0455
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

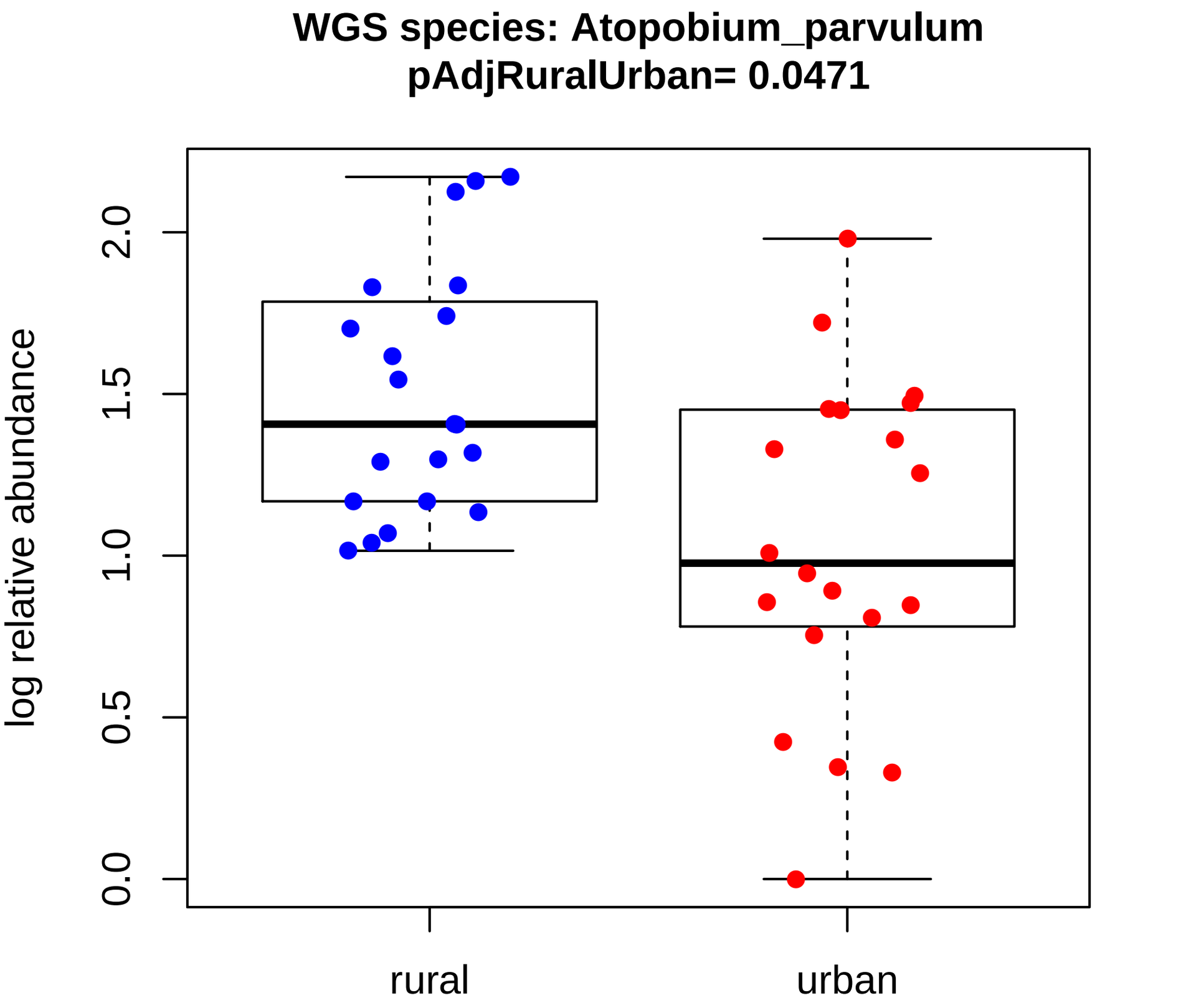

WGS species: Methanobrevibacter_smithii
pAdjRuralUrban= 0.0455
log relative abundance
0
1
2
3
4
rural
urban

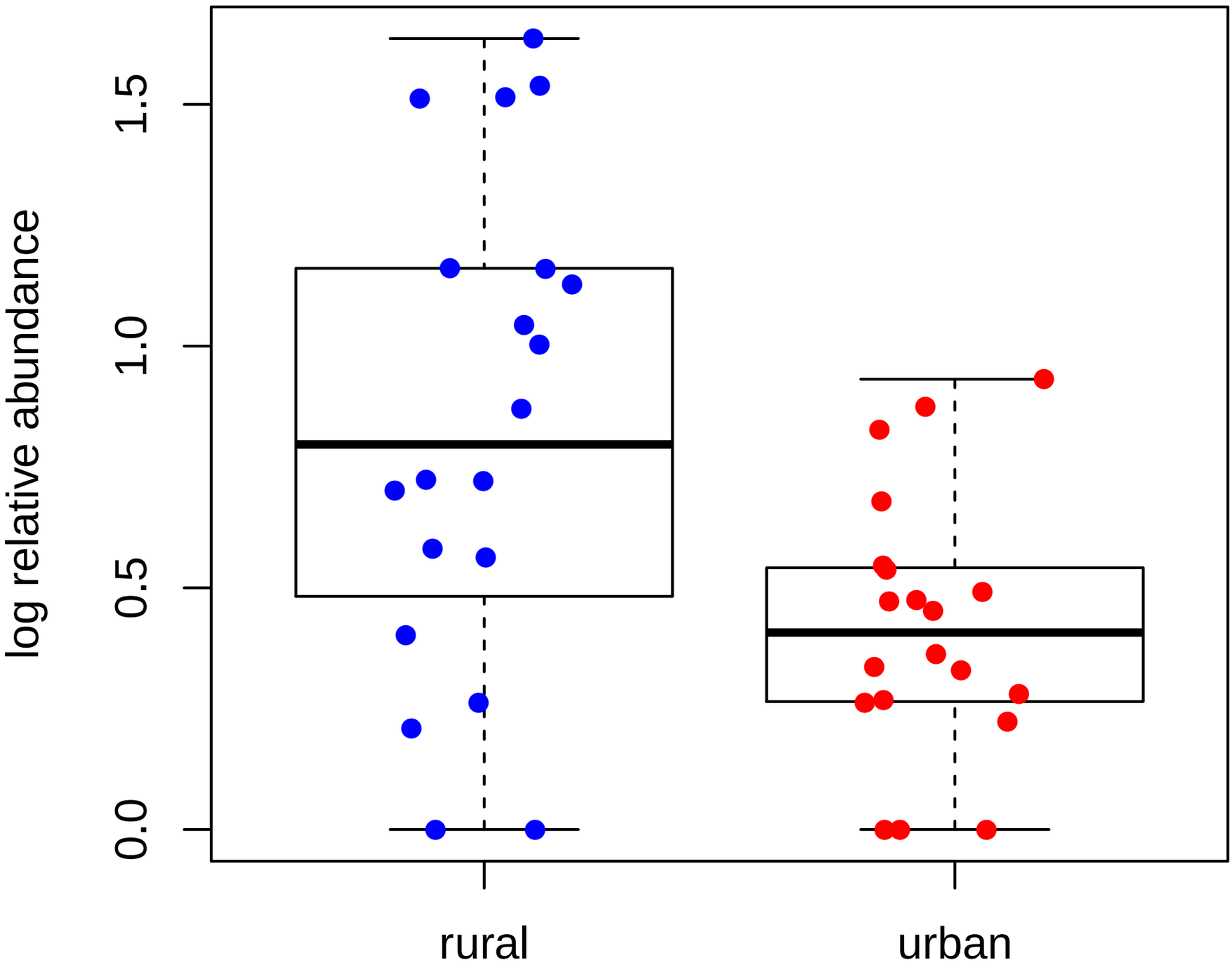

WGS species: Borrelia_burgdorferi
pAdjRuralUrban= 0.0455
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

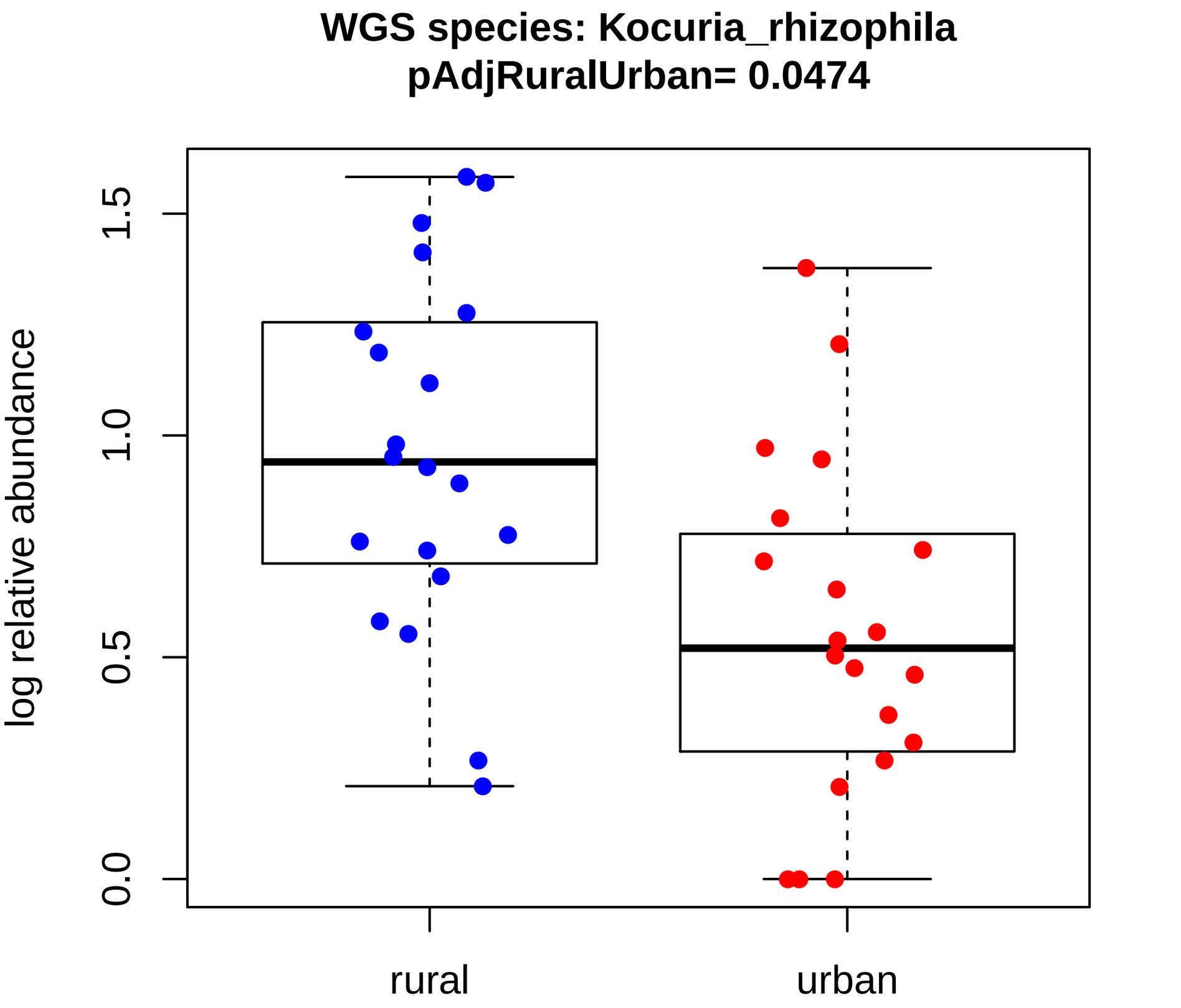

WGS species: Thermacetogenium_phaeum
pAdjRuralUrban= 0.0469
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

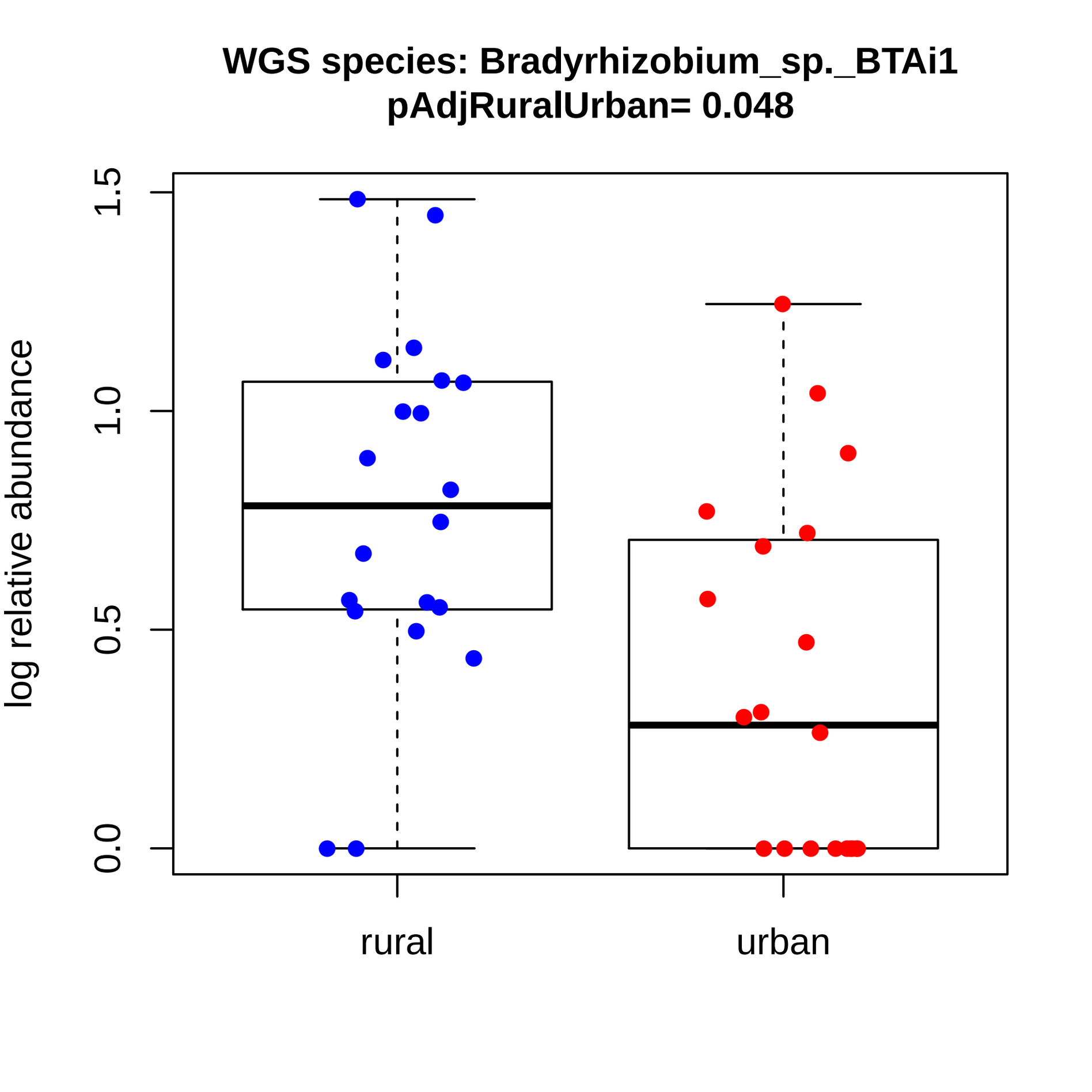

WGS species: Streptococcus_phage_SM1
pAdjRuralUrban= 0.0471
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

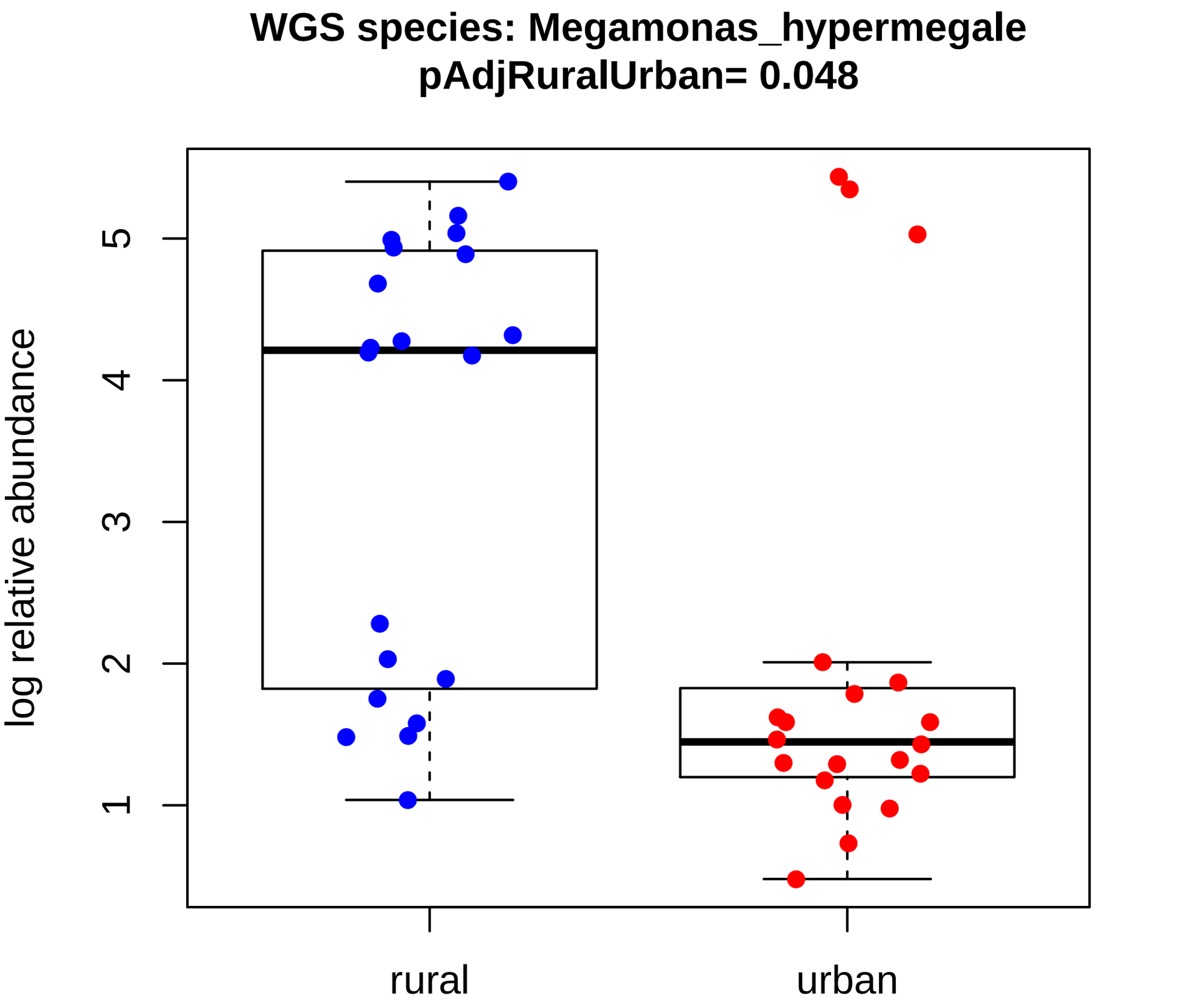

WGS species: Haliangium_ochraceum
pAdjRuralUrban= 0.0471
log relative abundance
0.5
1.0
1.5
rural
urban

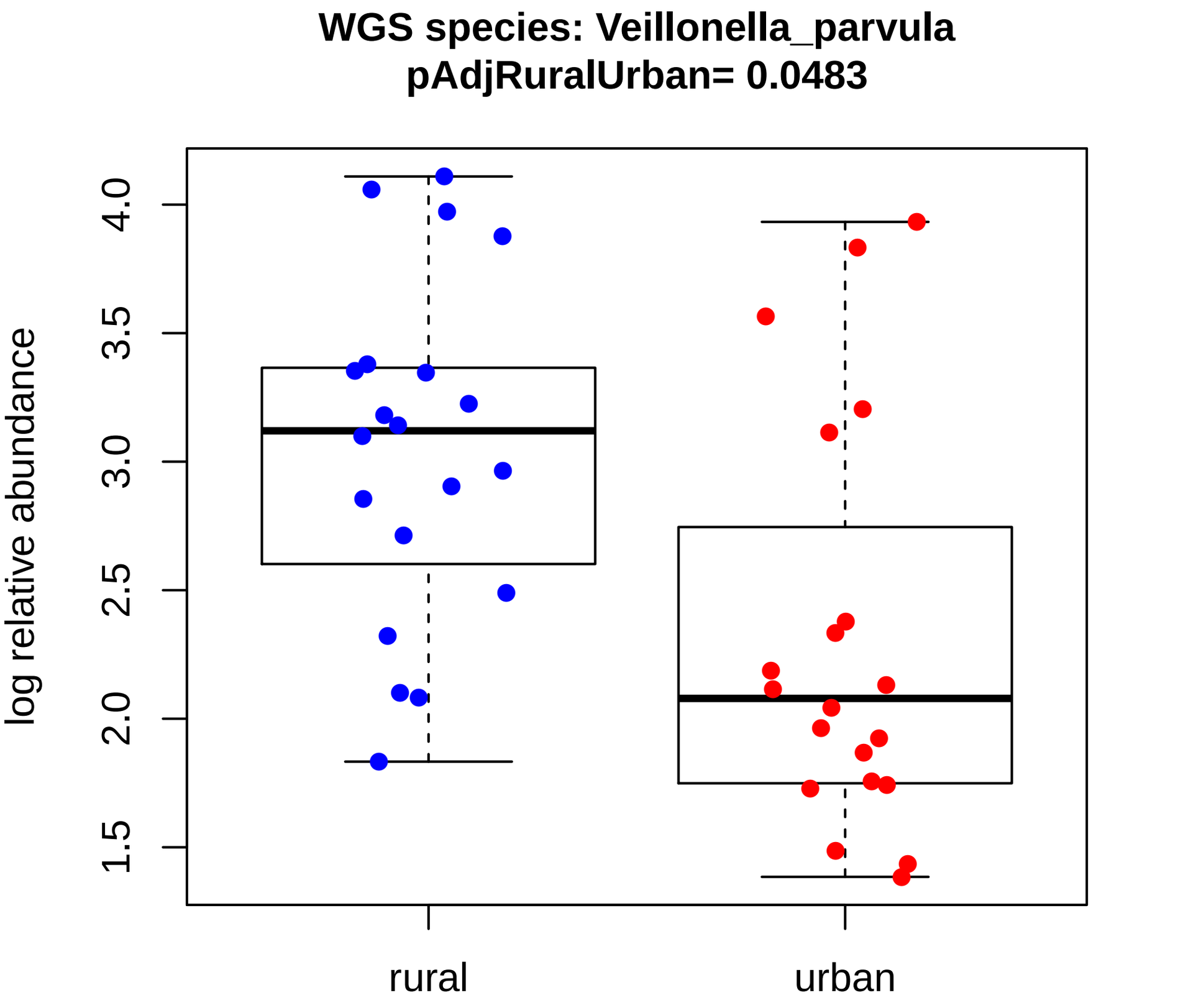

WGS species: Atopobium_parvulum
pAdjRuralUrban= 0.0471
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

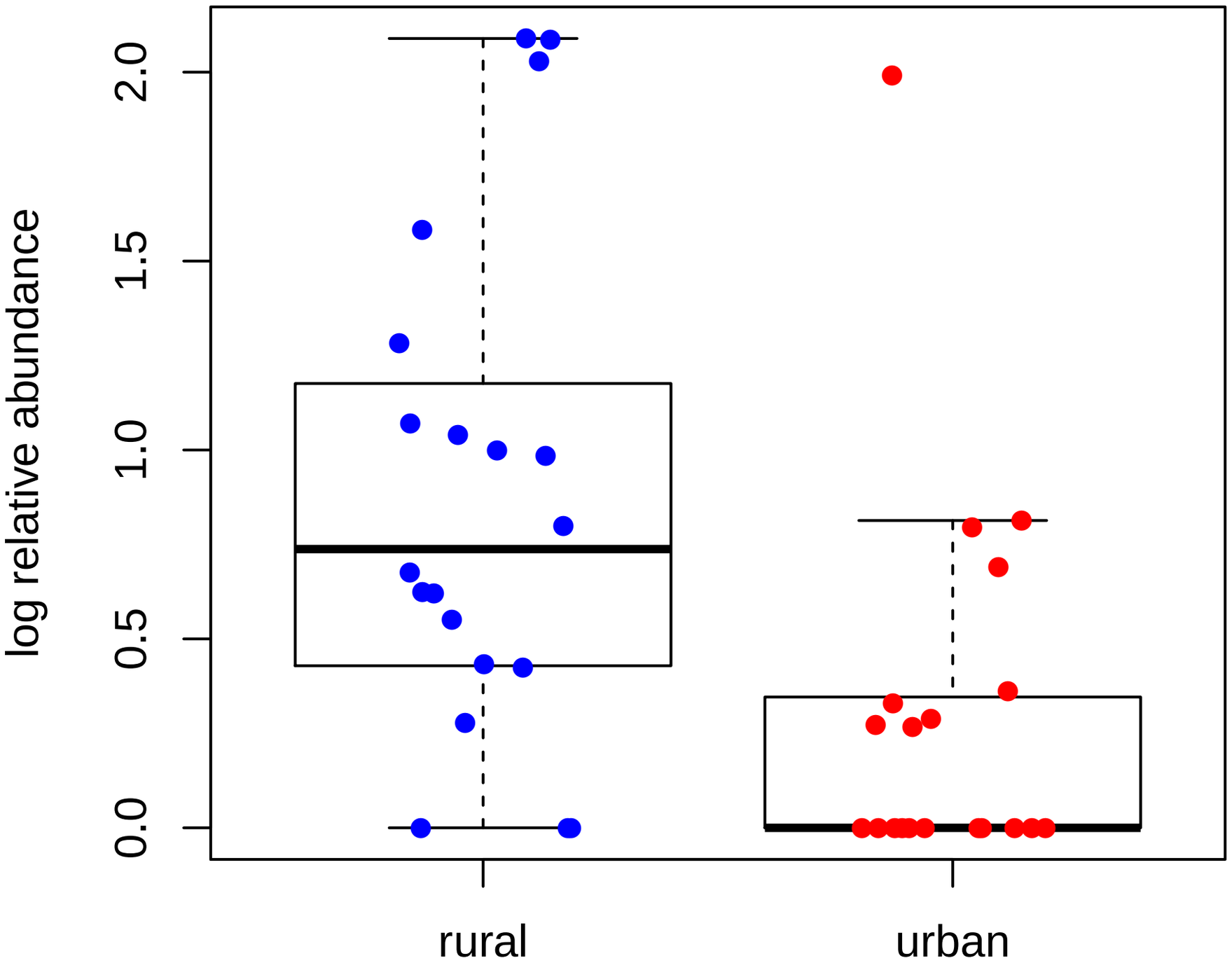

WGS species: Prochlorococcus_marinus
pAdjRuralUrban= 0.0474
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

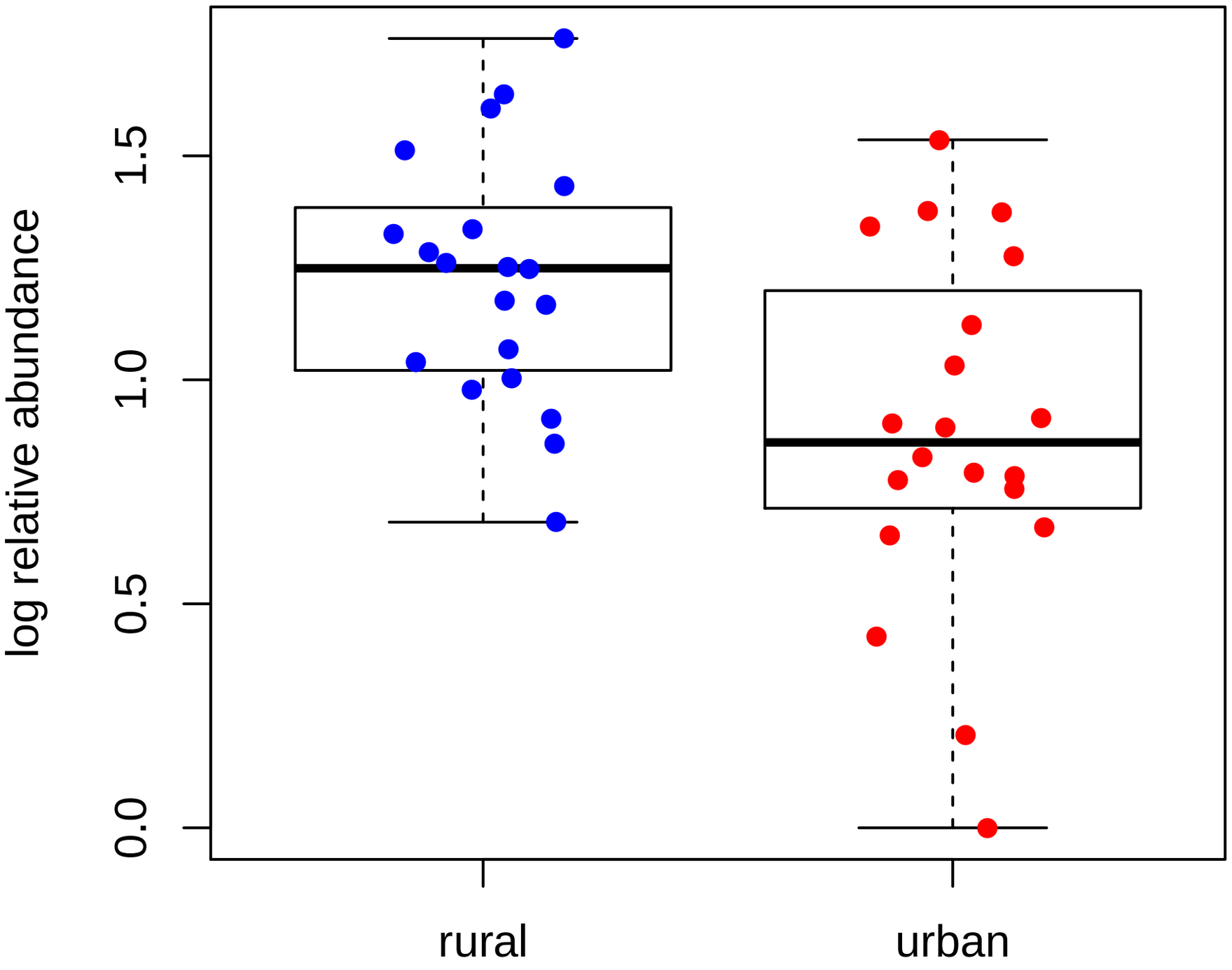

WGS species: Kocuria_rhizophila
pAdjRuralUrban= 0.0474
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

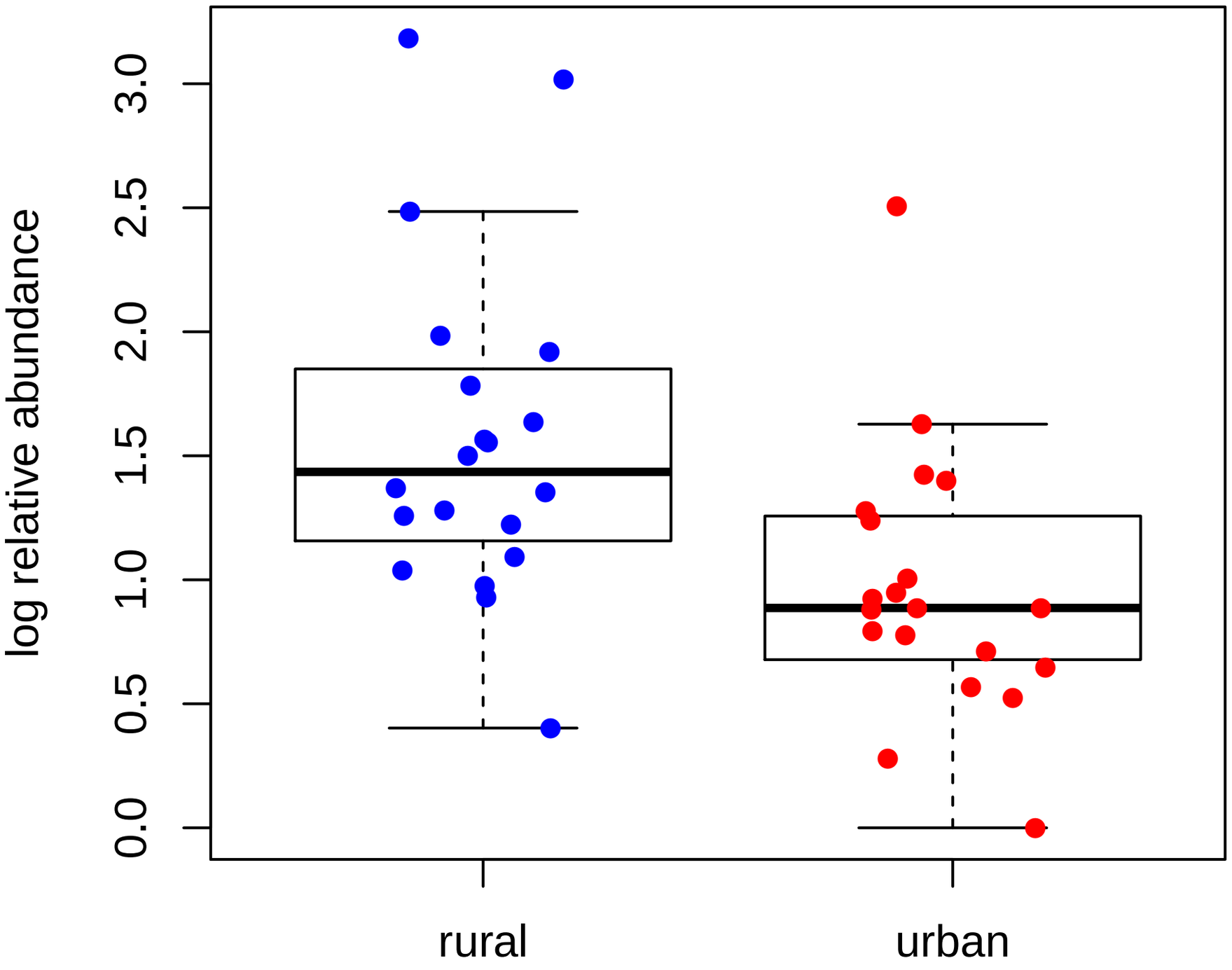

WGS species: Bradyrhizobium_sp._BTAi1
pAdjRuralUrban= 0.048
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

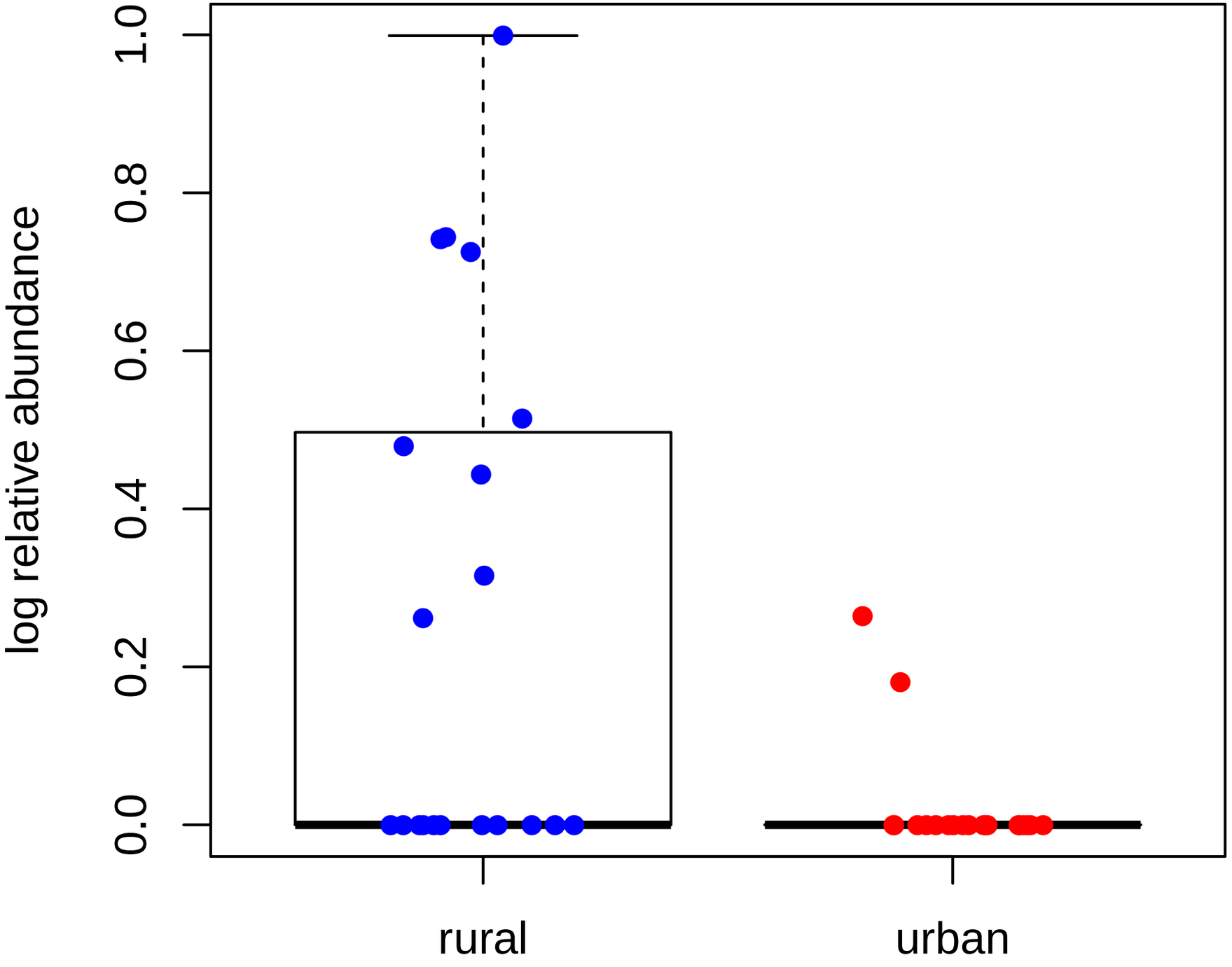

WGS species: Megamonas_hypermegale
pAdjRuralUrban= 0.048
log relative abundance
1
2
3
4
5
rural
urban

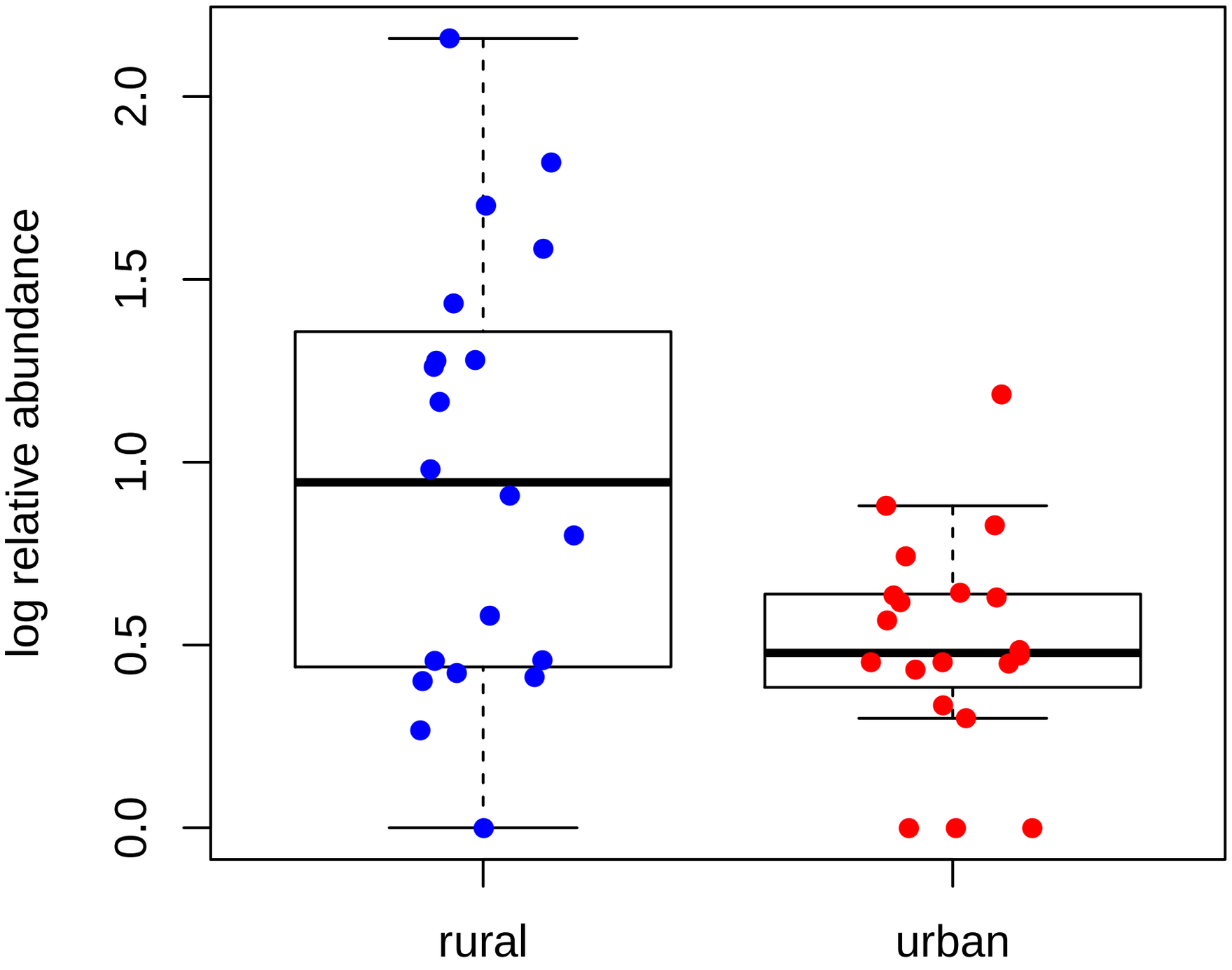

WGS species: Veillonella_parvula
pAdjRuralUrban= 0.0483
log relative abundance
4.0
3.5
3.0
2.5
2.0
1.5
rural
urban

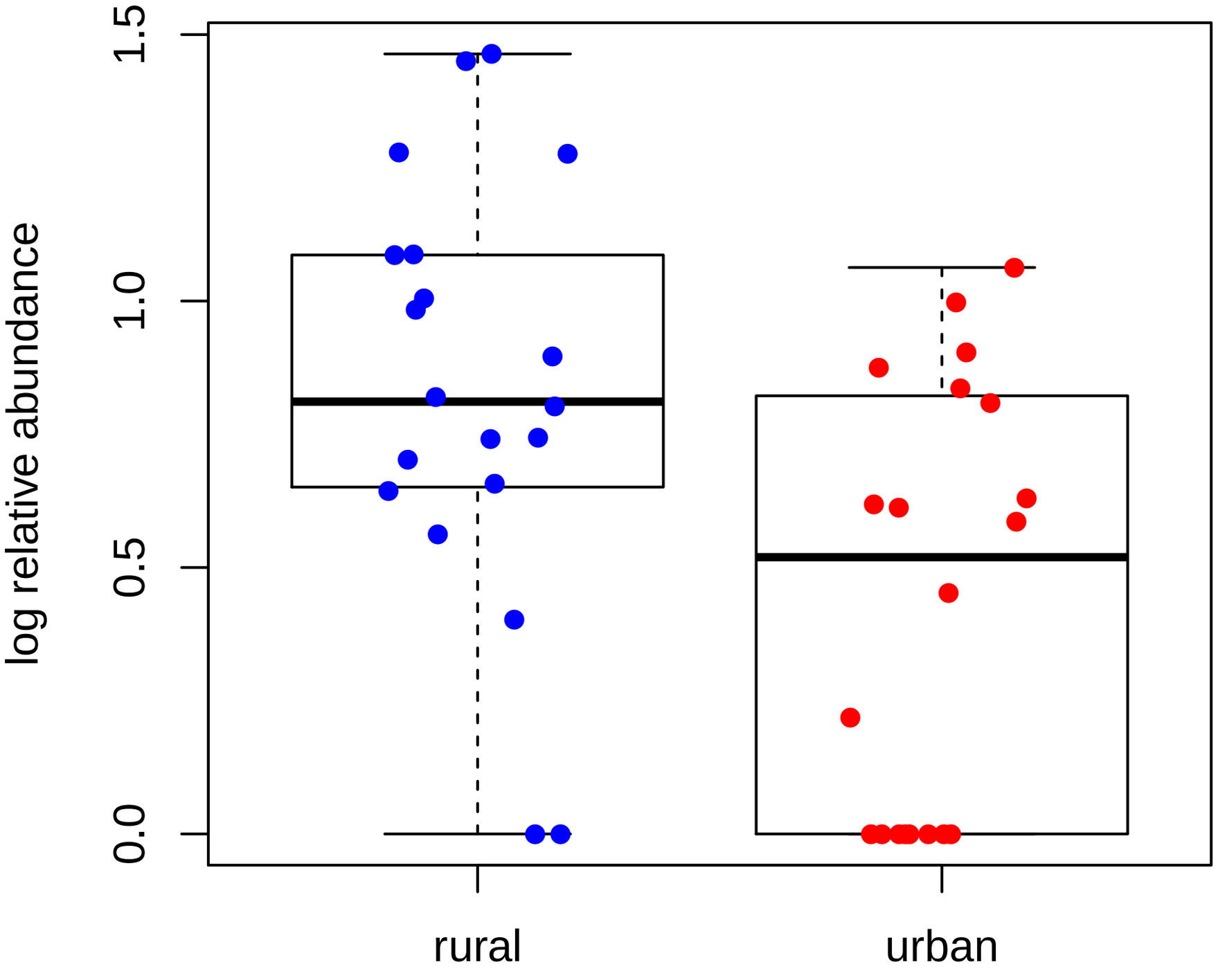

WGS species: Xylella_fastidiosa
pAdjRuralUrban= 0.0512
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

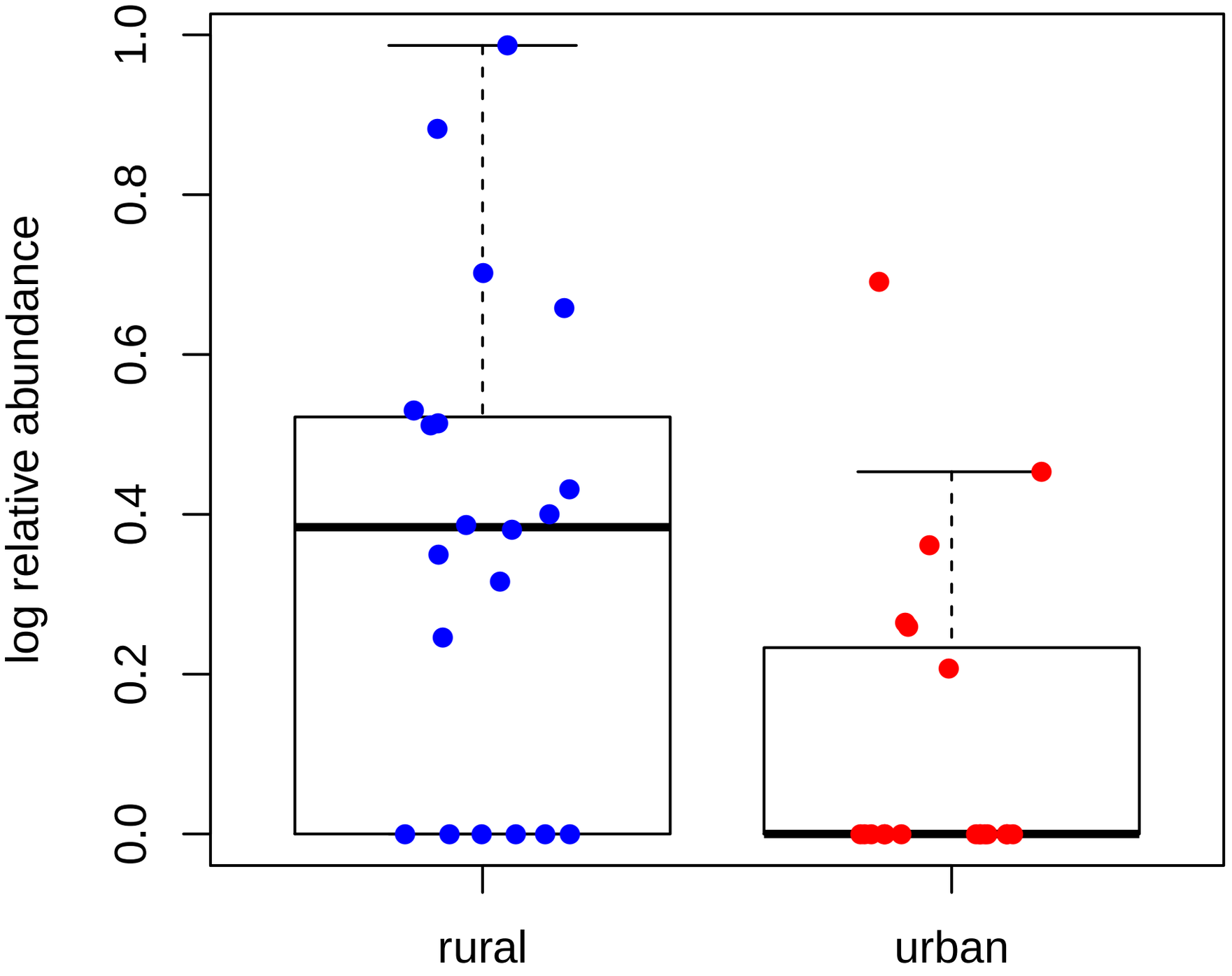

WGS species: Streptococcus_equi
pAdjRuralUrban= 0.0512
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

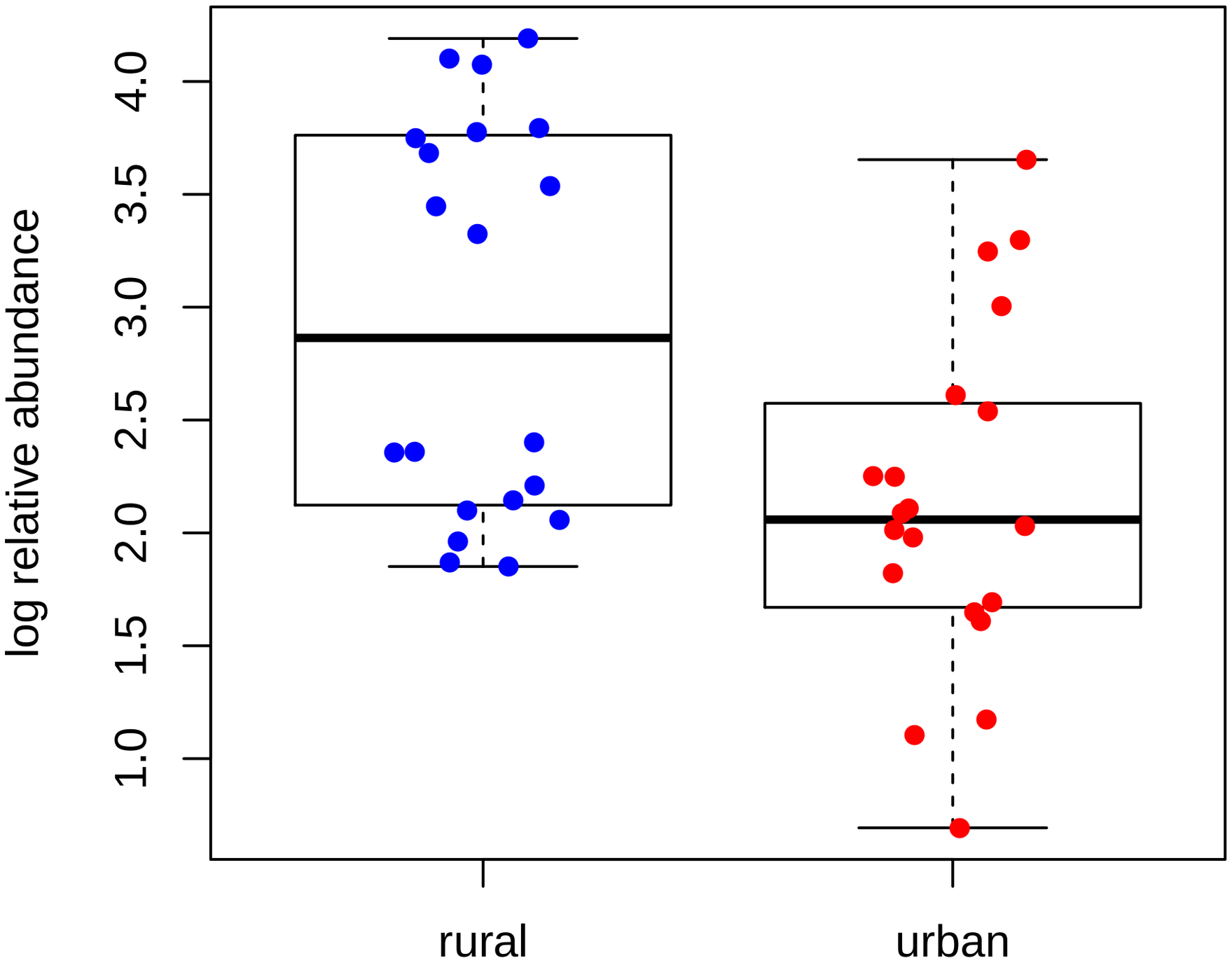

WGS species: Streptococcus_intermedius
pAdjRuralUrban= 0.0555
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

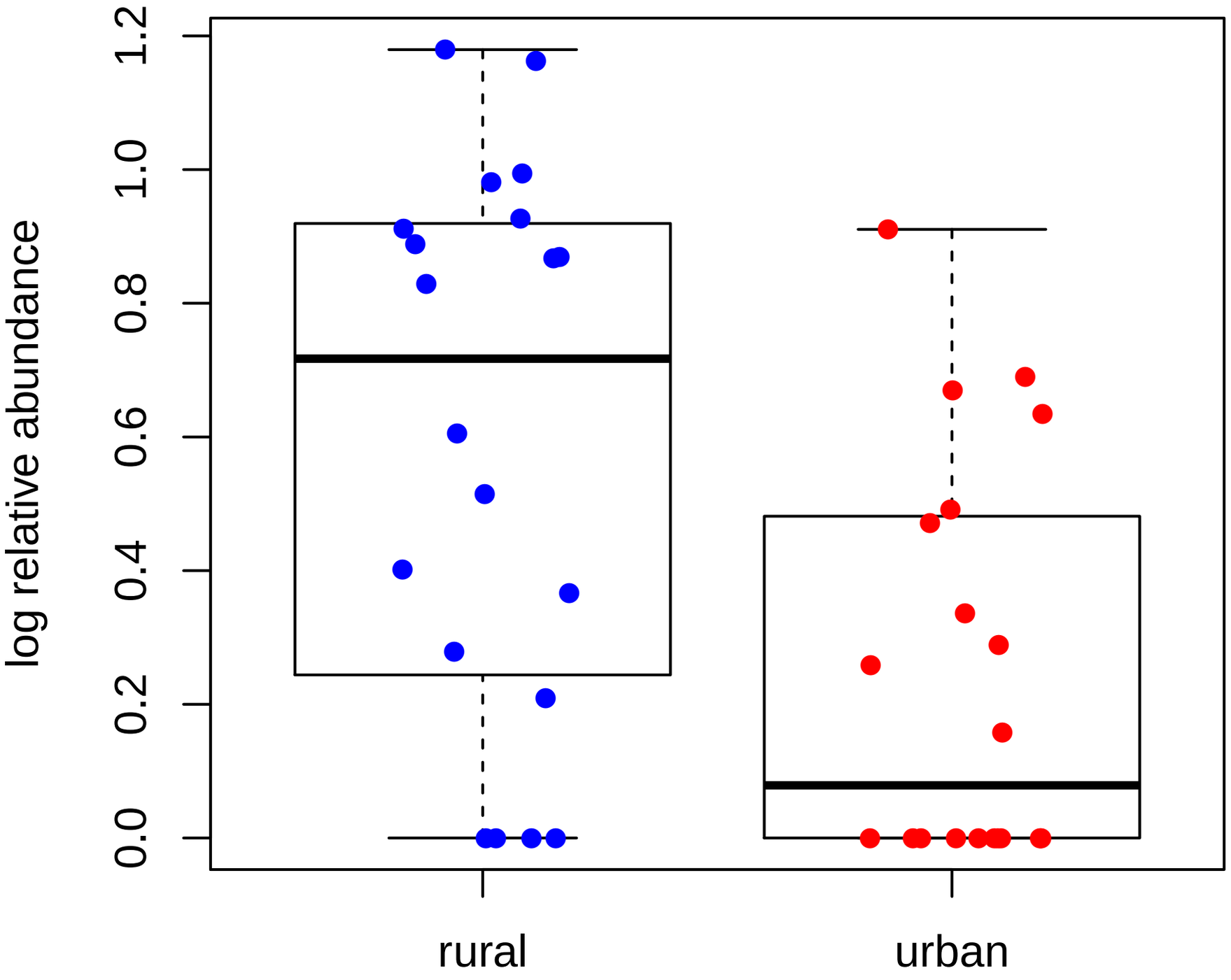

WGS species: Bacillus_halodurans
pAdjRuralUrban= 0.0564
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

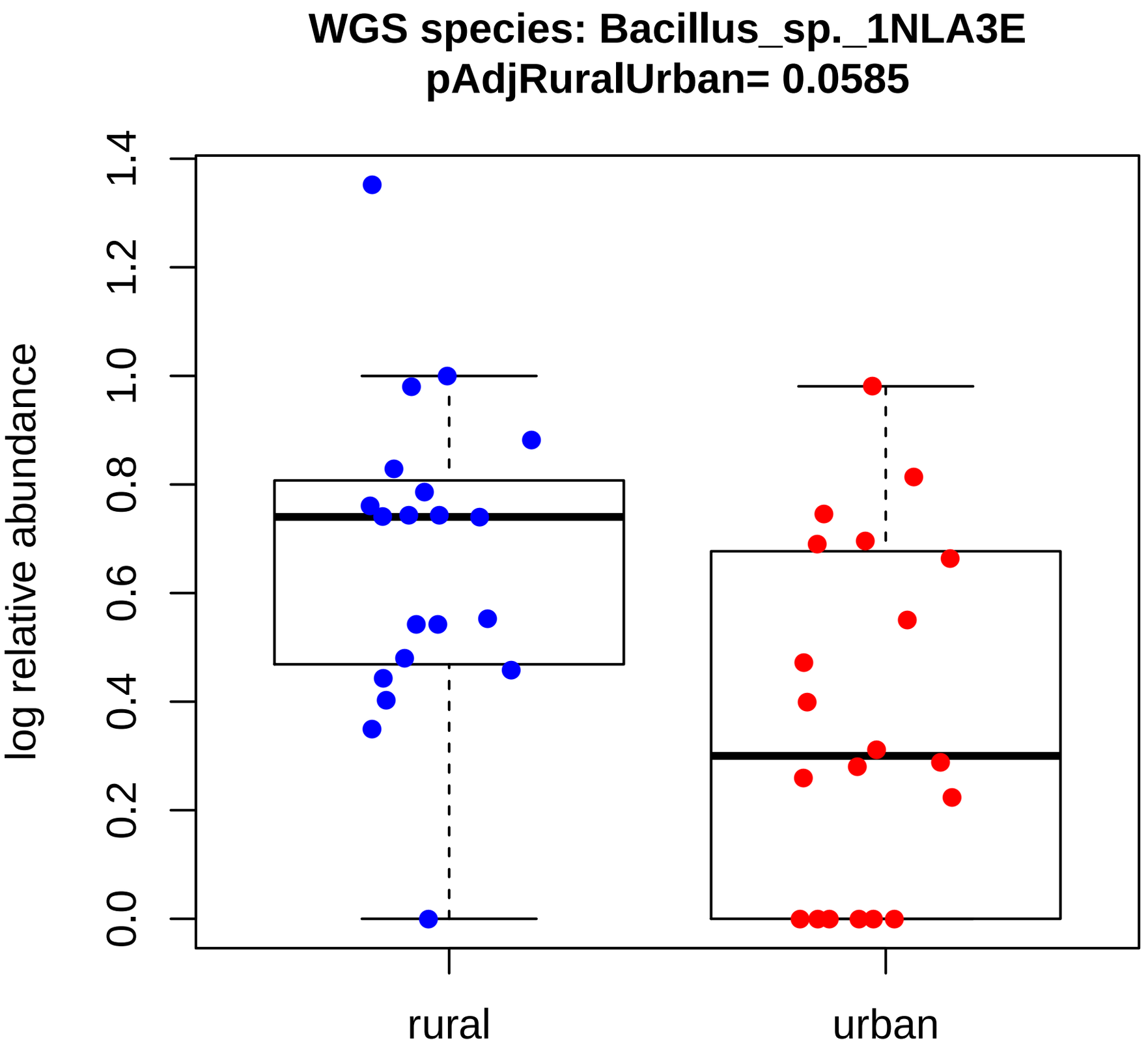

WGS species: Acholeplasma_laidlawii
pAdjRuralUrban= 0.0564
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

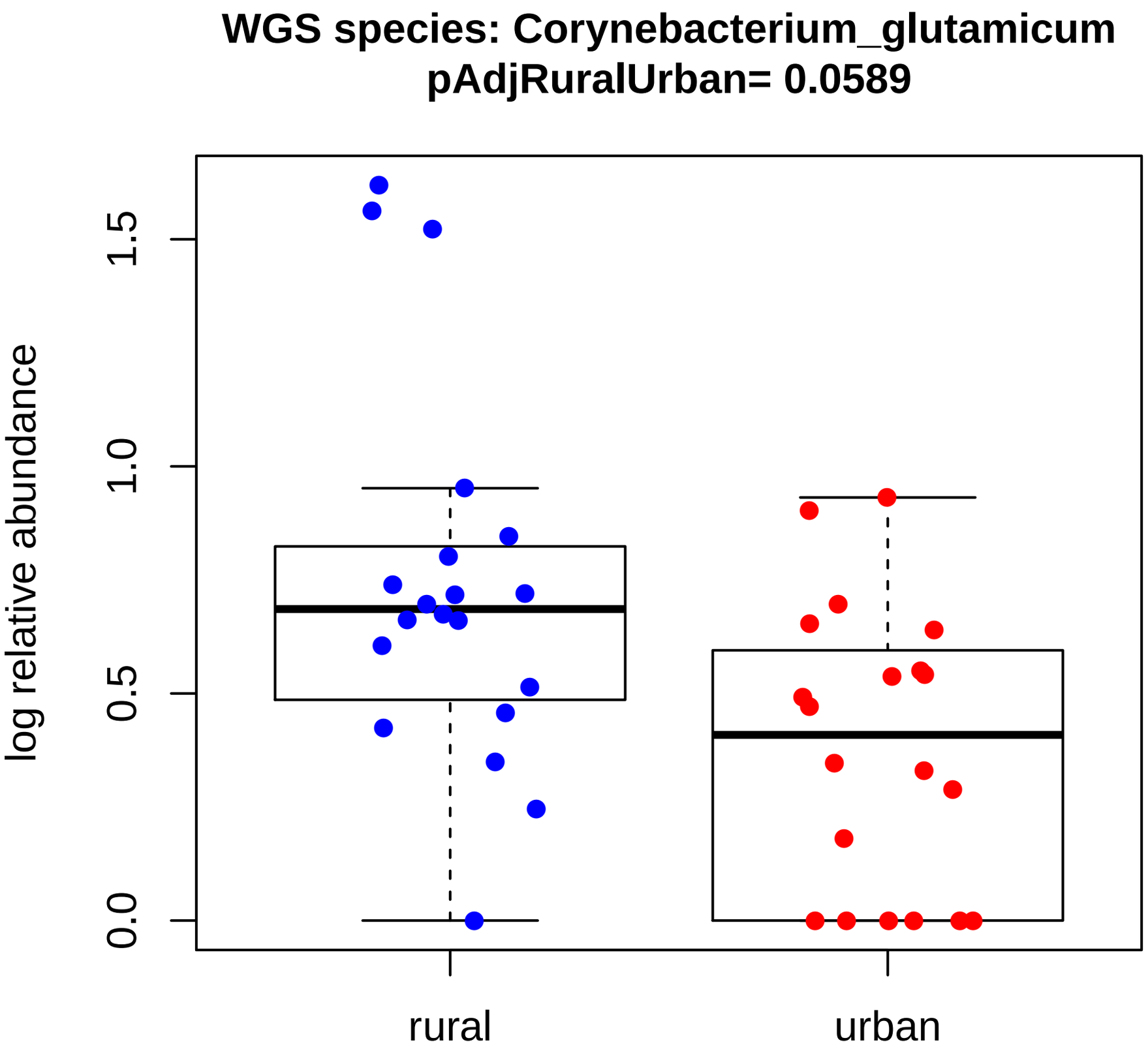

WGS species: Granulibacter_bethesdensis
pAdjRuralUrban= 0.0564
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

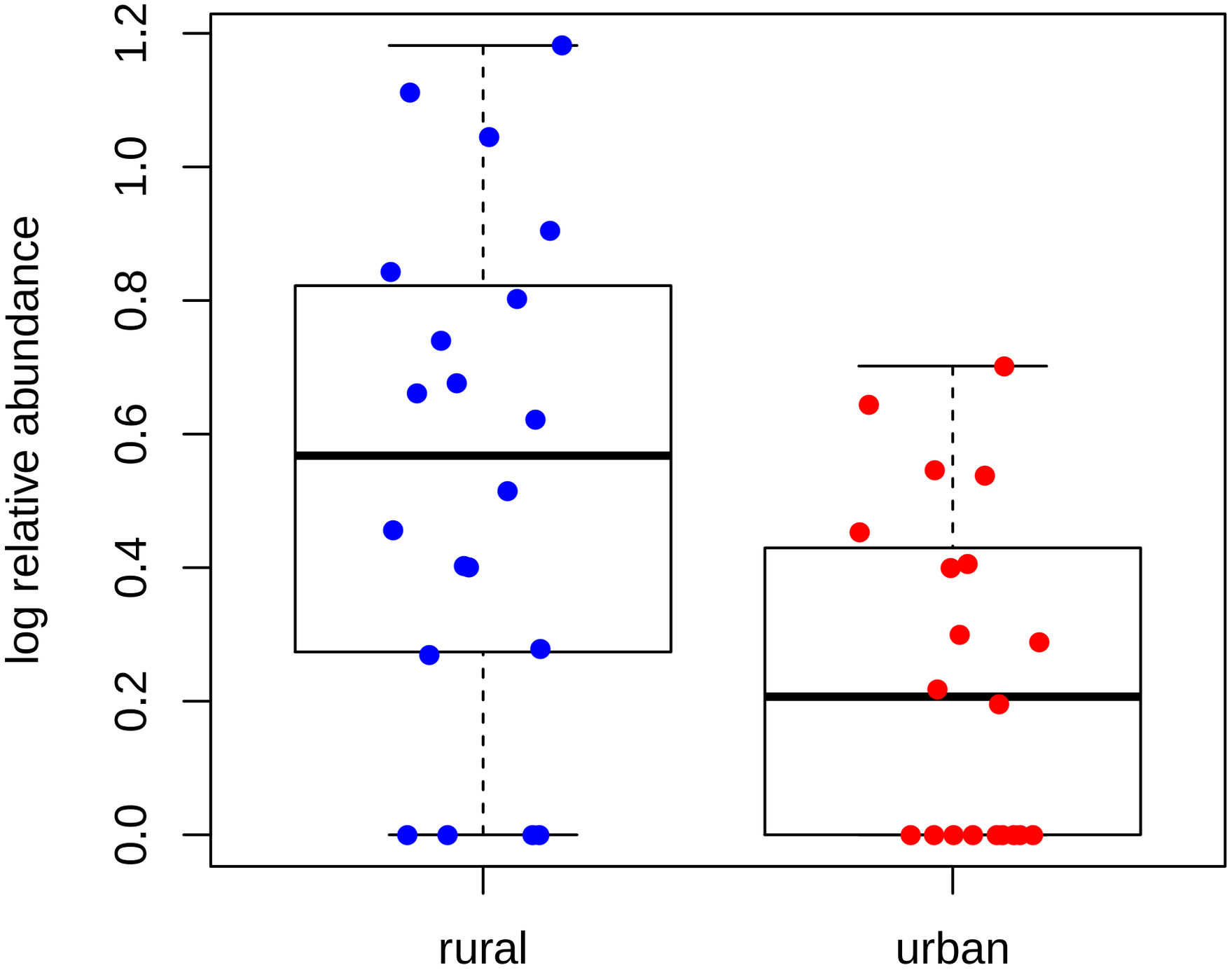

WGS species: Melissococcus_plutonius
pAdjRuralUrban= 0.0564
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

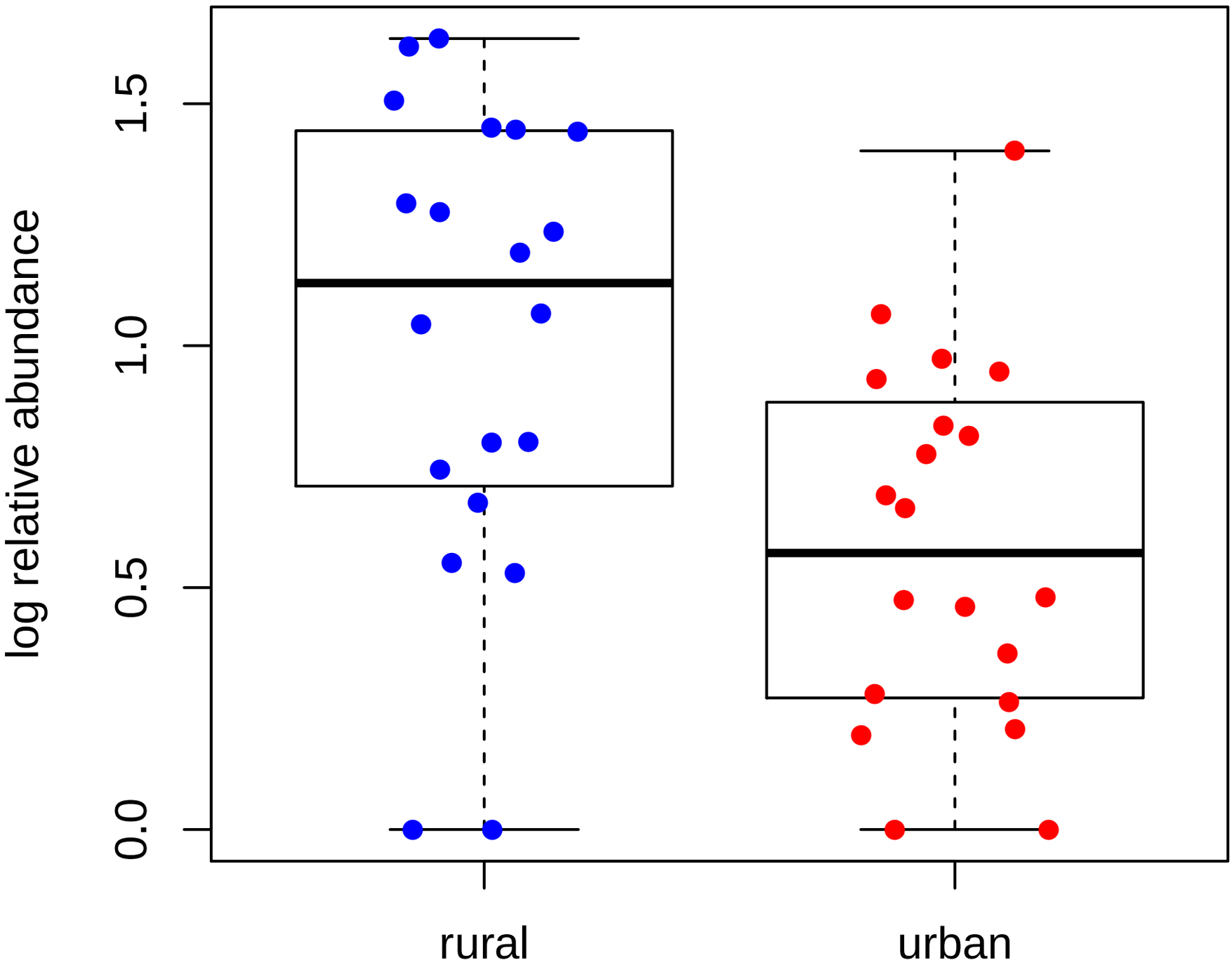

WGS species: Prevotella_denticola
pAdjRuralUrban= 0.0564
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

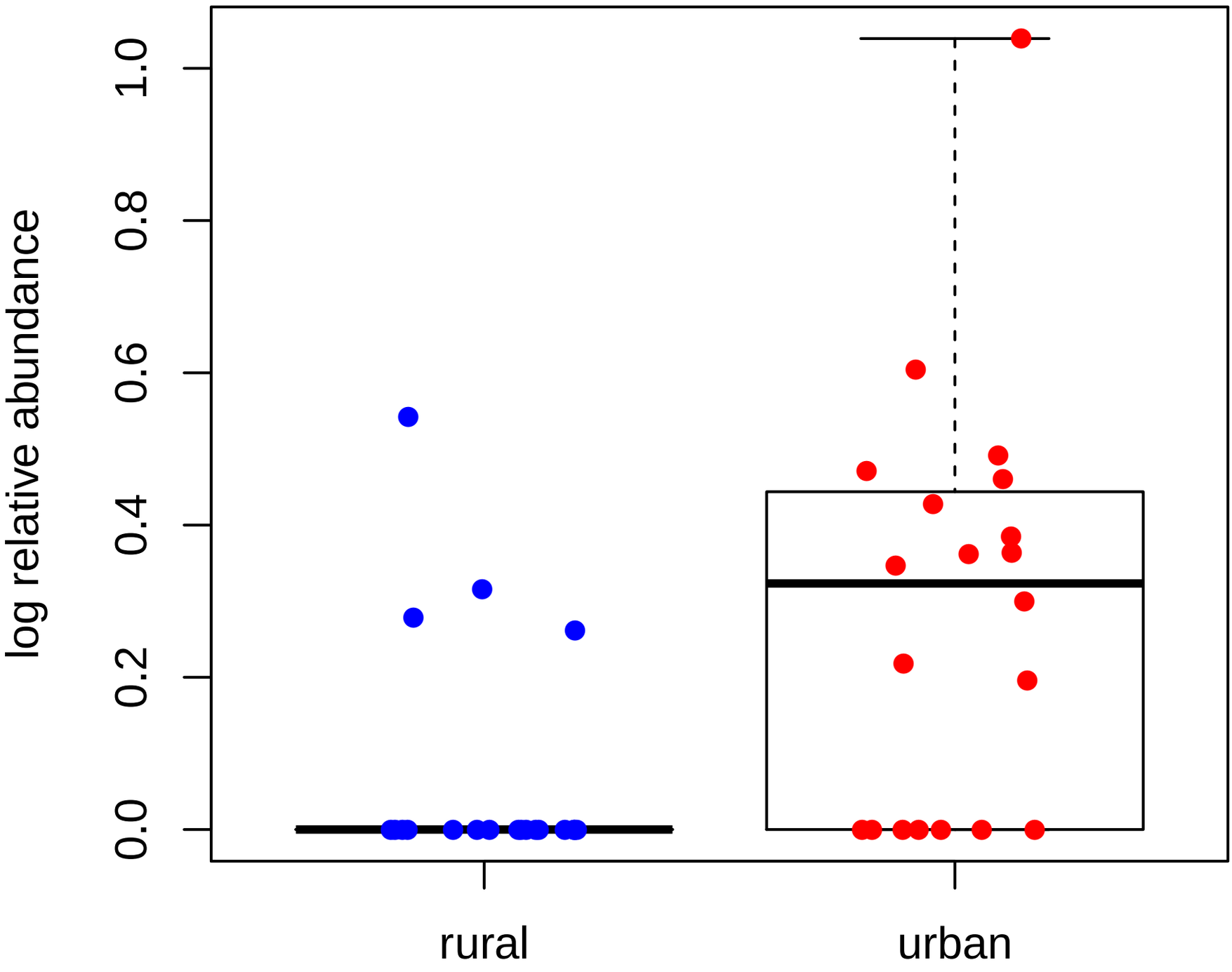

WGS species: Deinococcus_peraridilitoris
pAdjRuralUrban= 0.0584
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

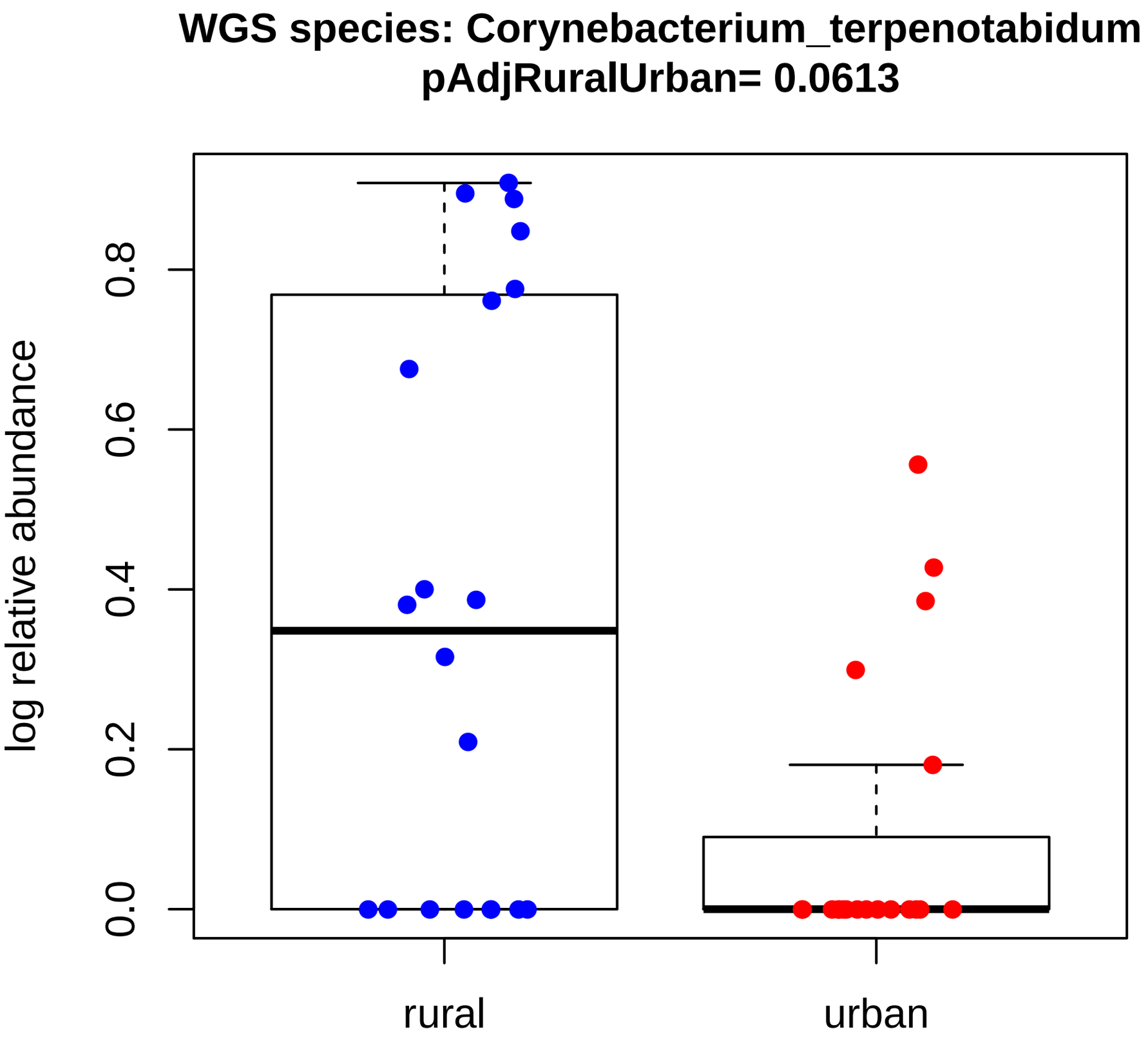

WGS species: Bacillus_sp._1NLA3E
pAdjRuralUrban= 0.0585
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

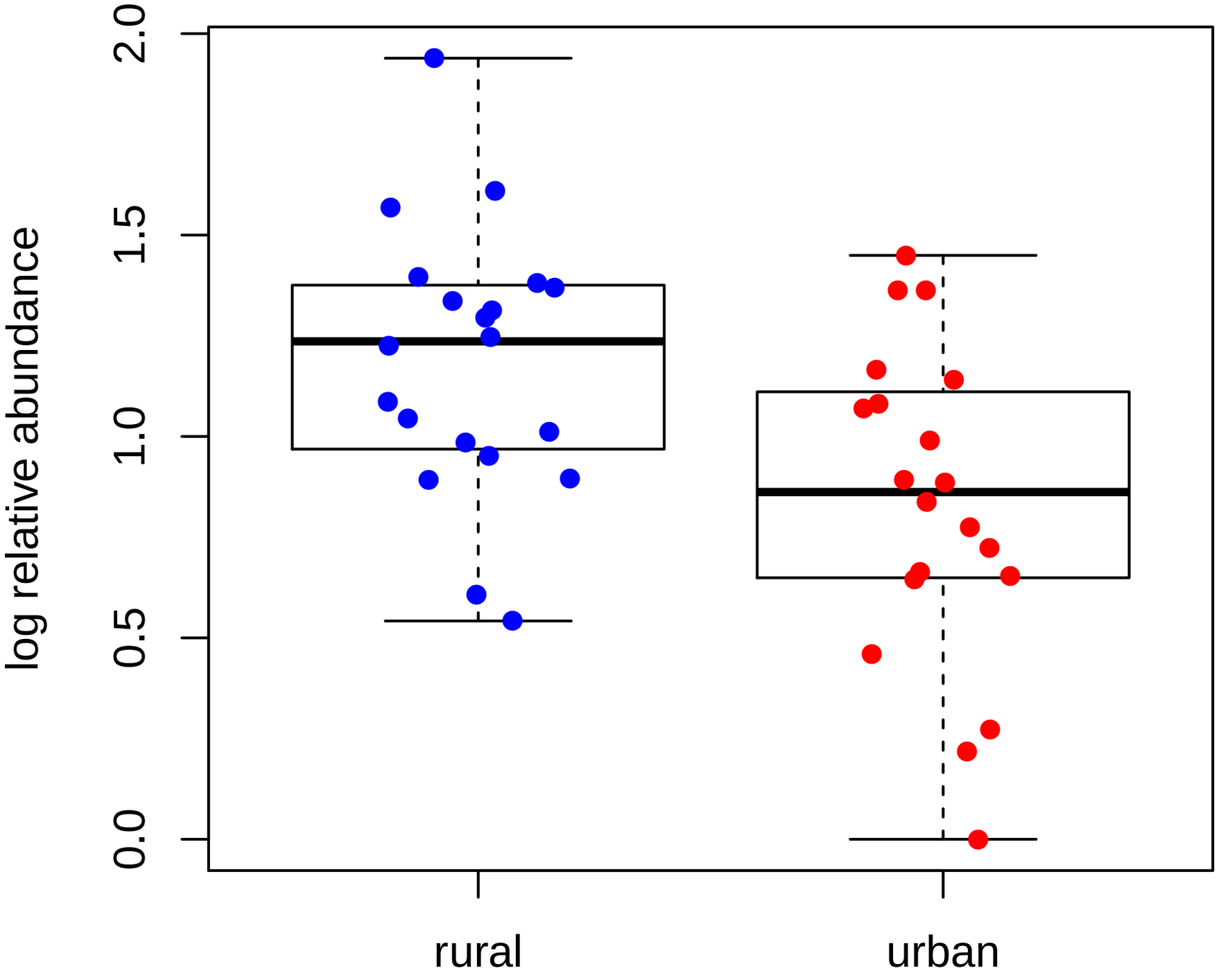

WGS species: Corynebacterium_glutamicum
pAdjRuralUrban= 0.0589
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

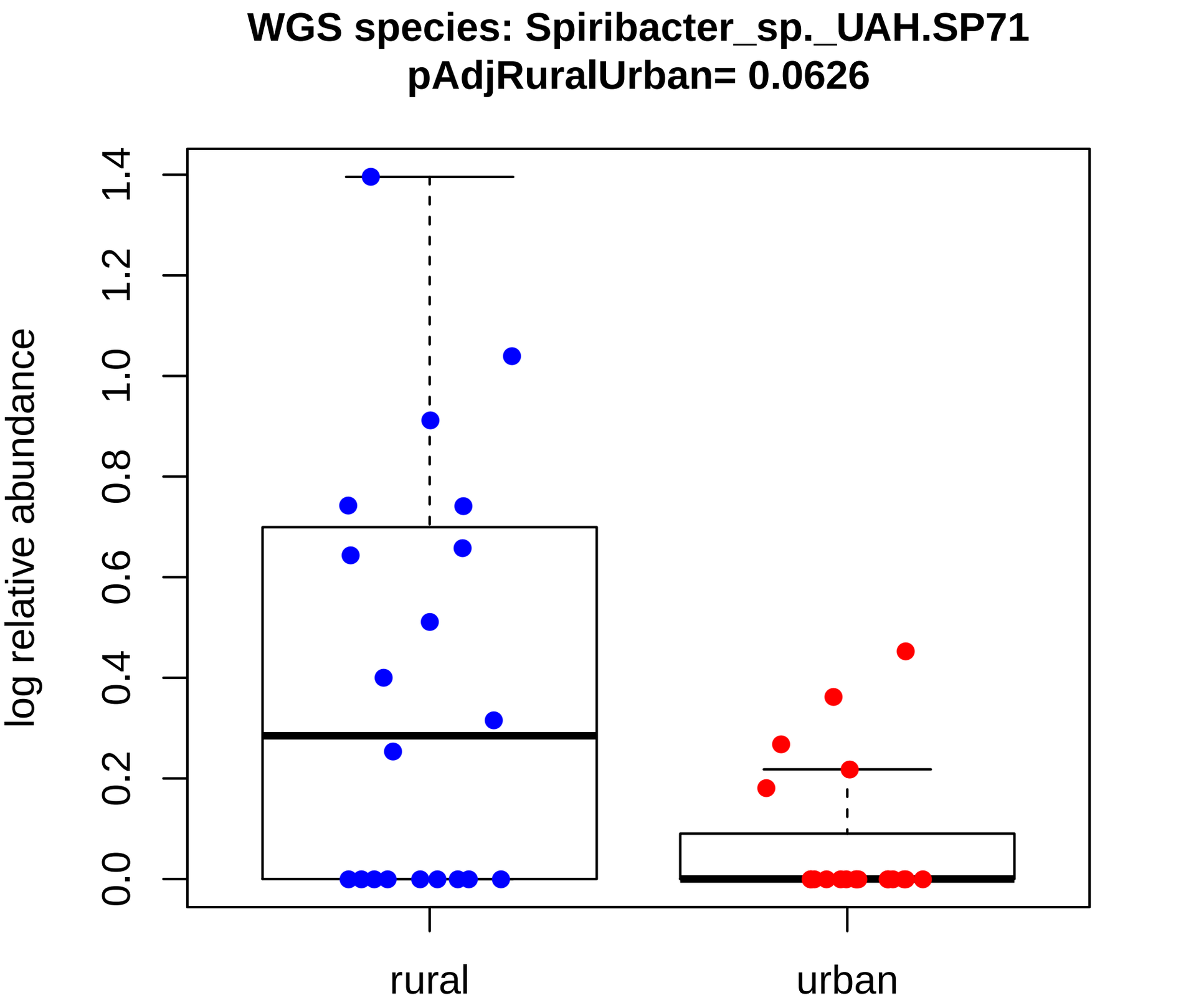

WGS species: Treponema_caldaria
pAdjRuralUrban= 0.0613
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

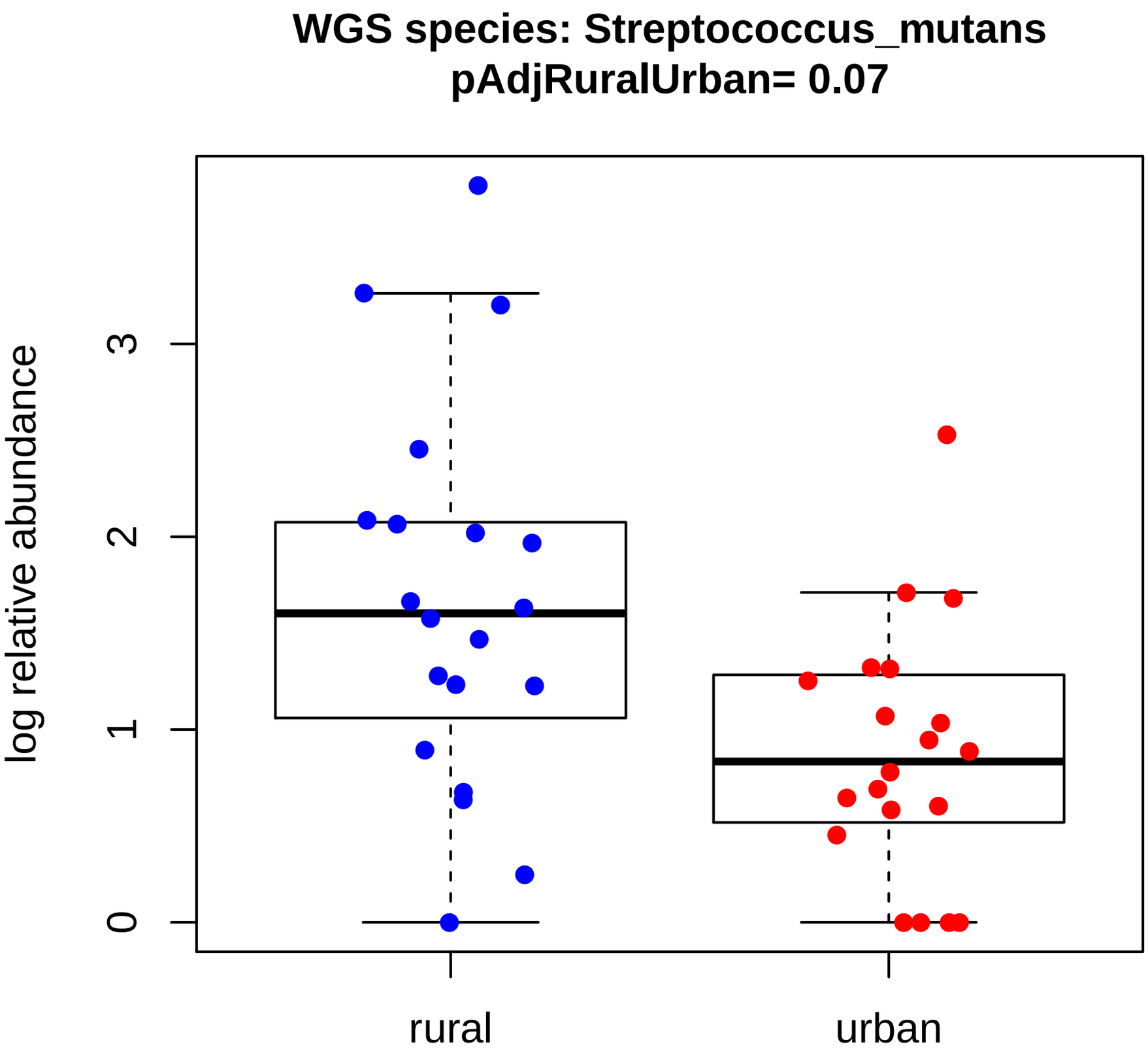

WGS species: Micavibrio_aeruginosavorus
pAdjRuralUrban= 0.0613
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

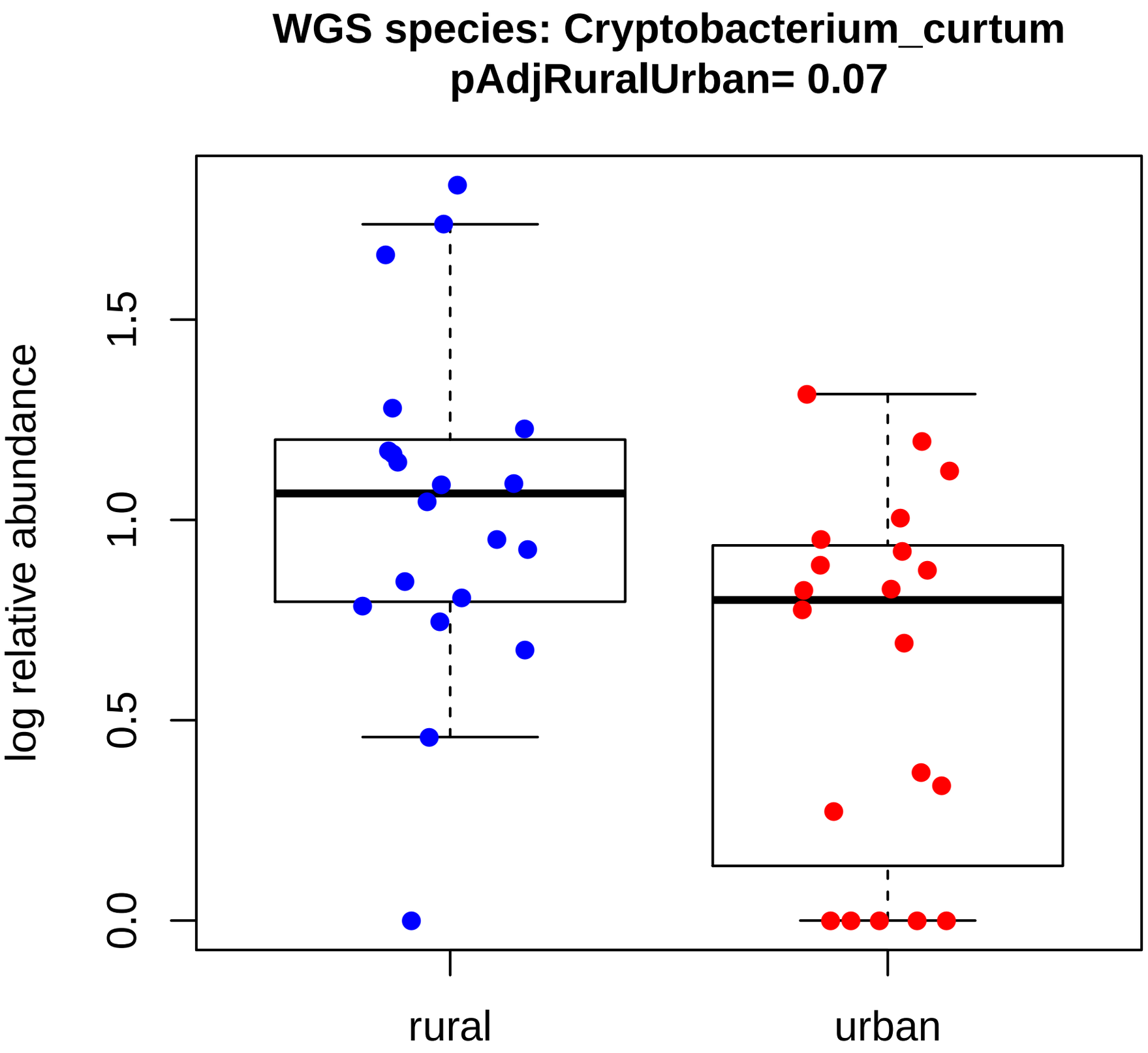

WGS species: Thermococcus_sp._4557
pAdjRuralUrban= 0.0613
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

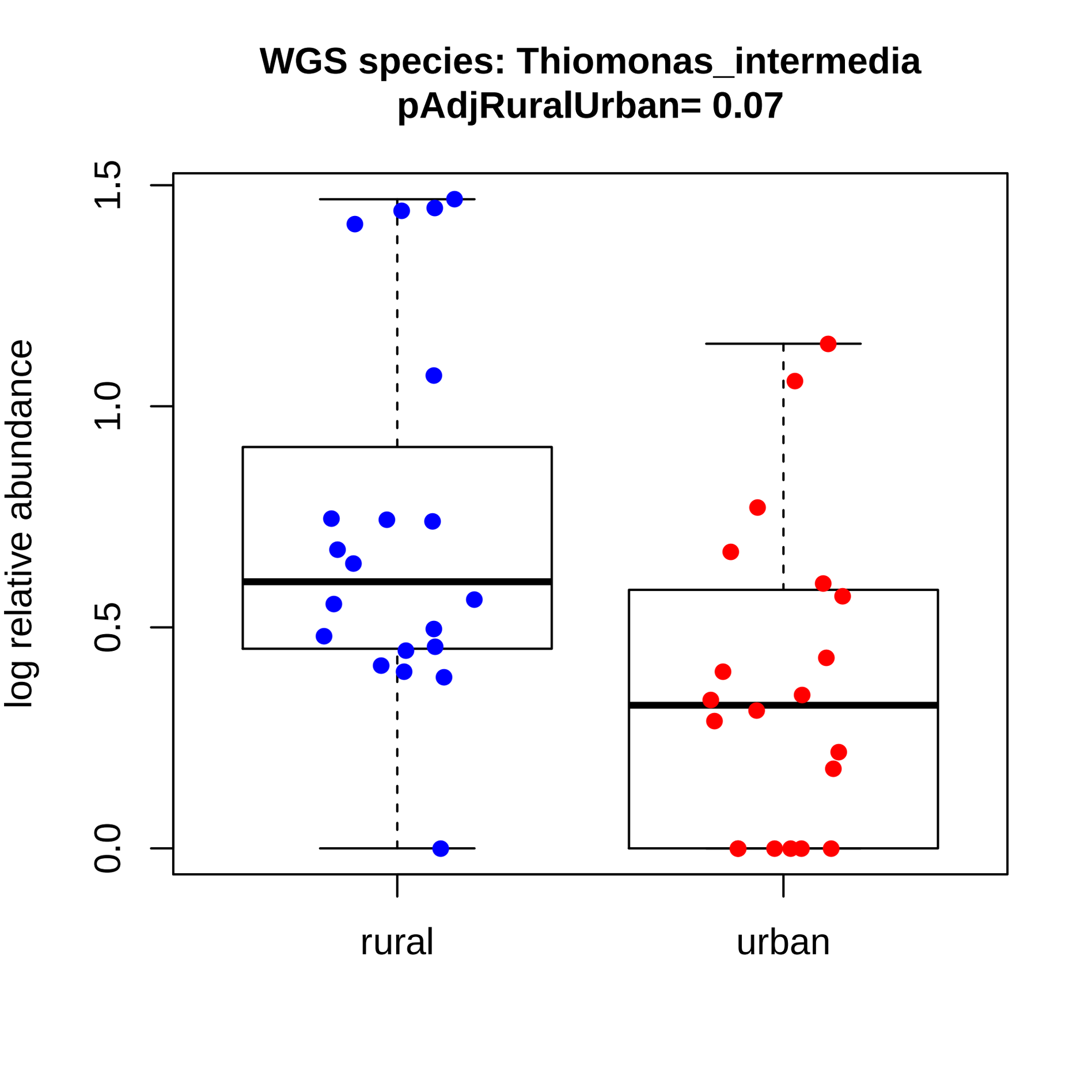

WGS species: Corynebacterium_terpenotabidum
pAdjRuralUrban= 0.0613
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

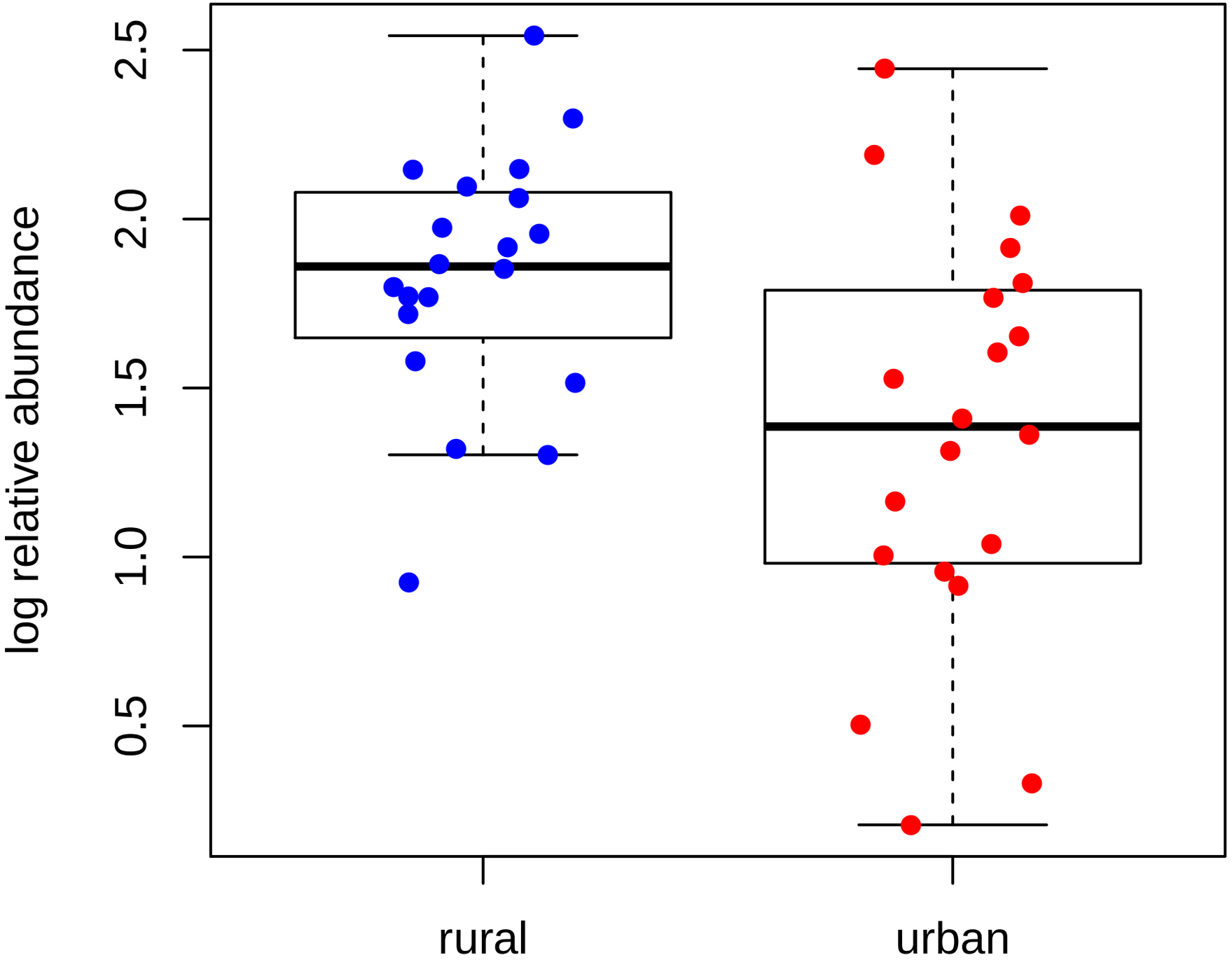

WGS species: Comamonas_testosteroni
pAdjRuralUrban= 0.0613
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

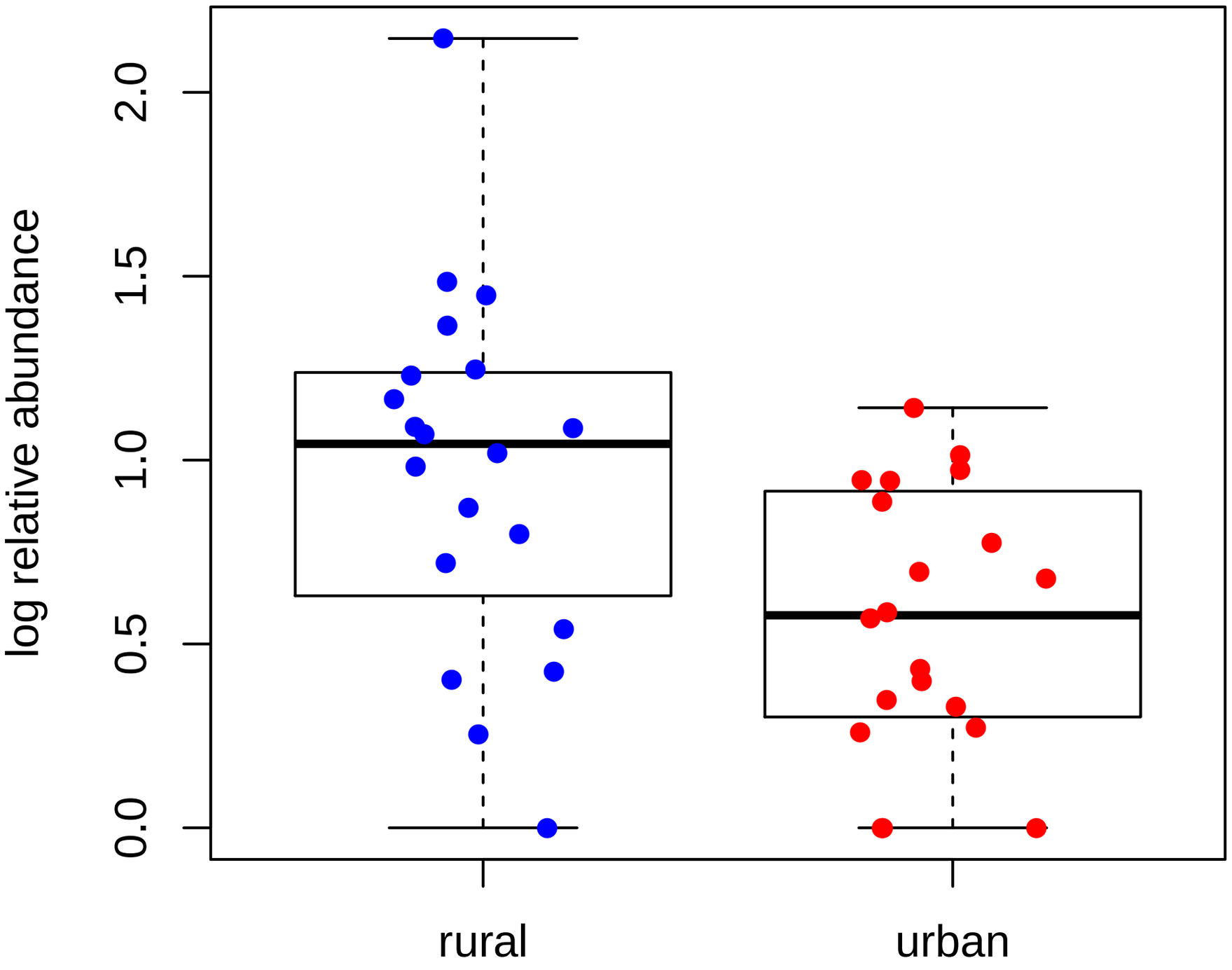

WGS species: Spiribacter_sp._UAH.SP71
pAdjRuralUrban= 0.0626
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

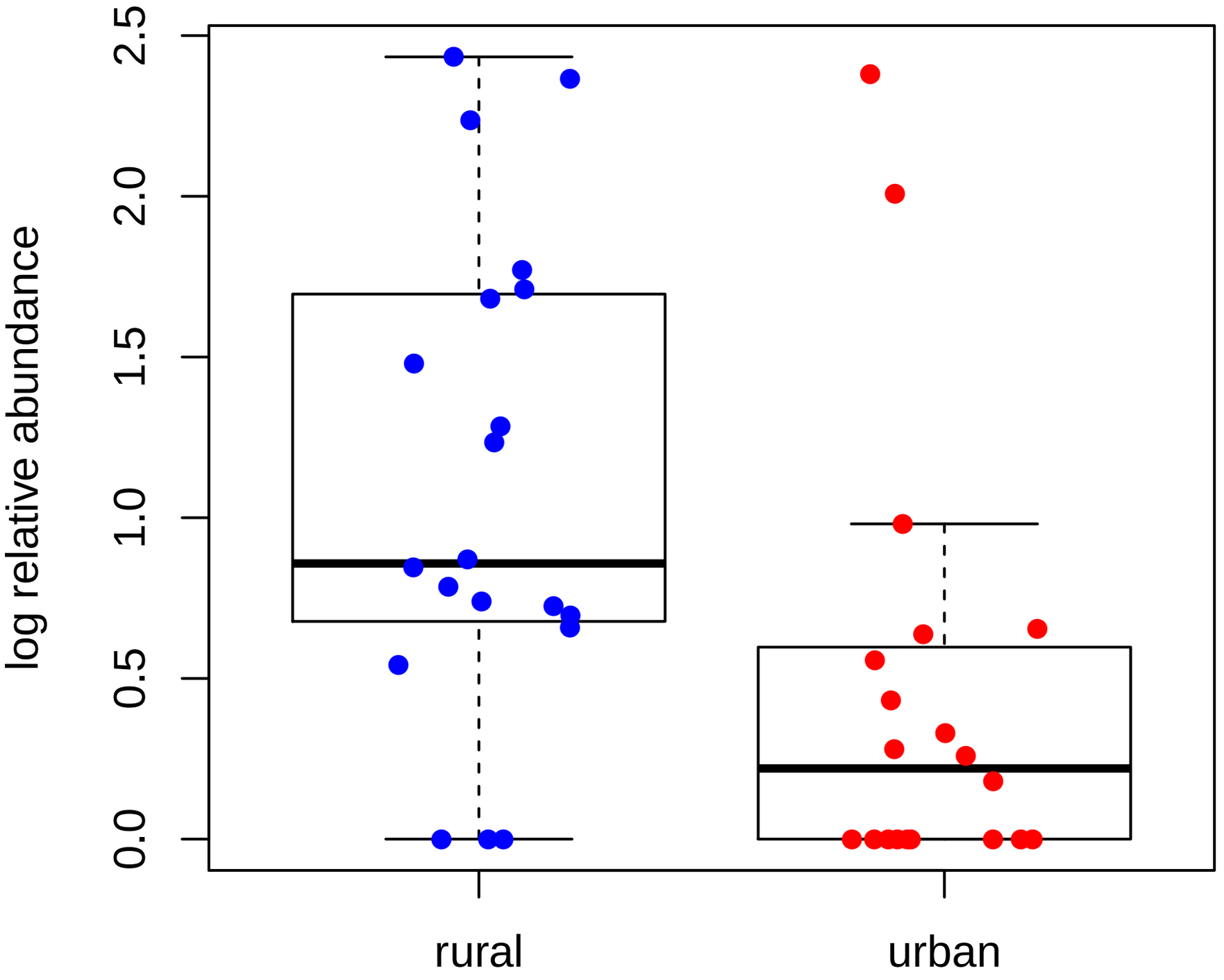

WGS species: Streptococcus_mutans
pAdjRuralUrban= 0.07
log relative abundance
0
1
2
3
rural
urban

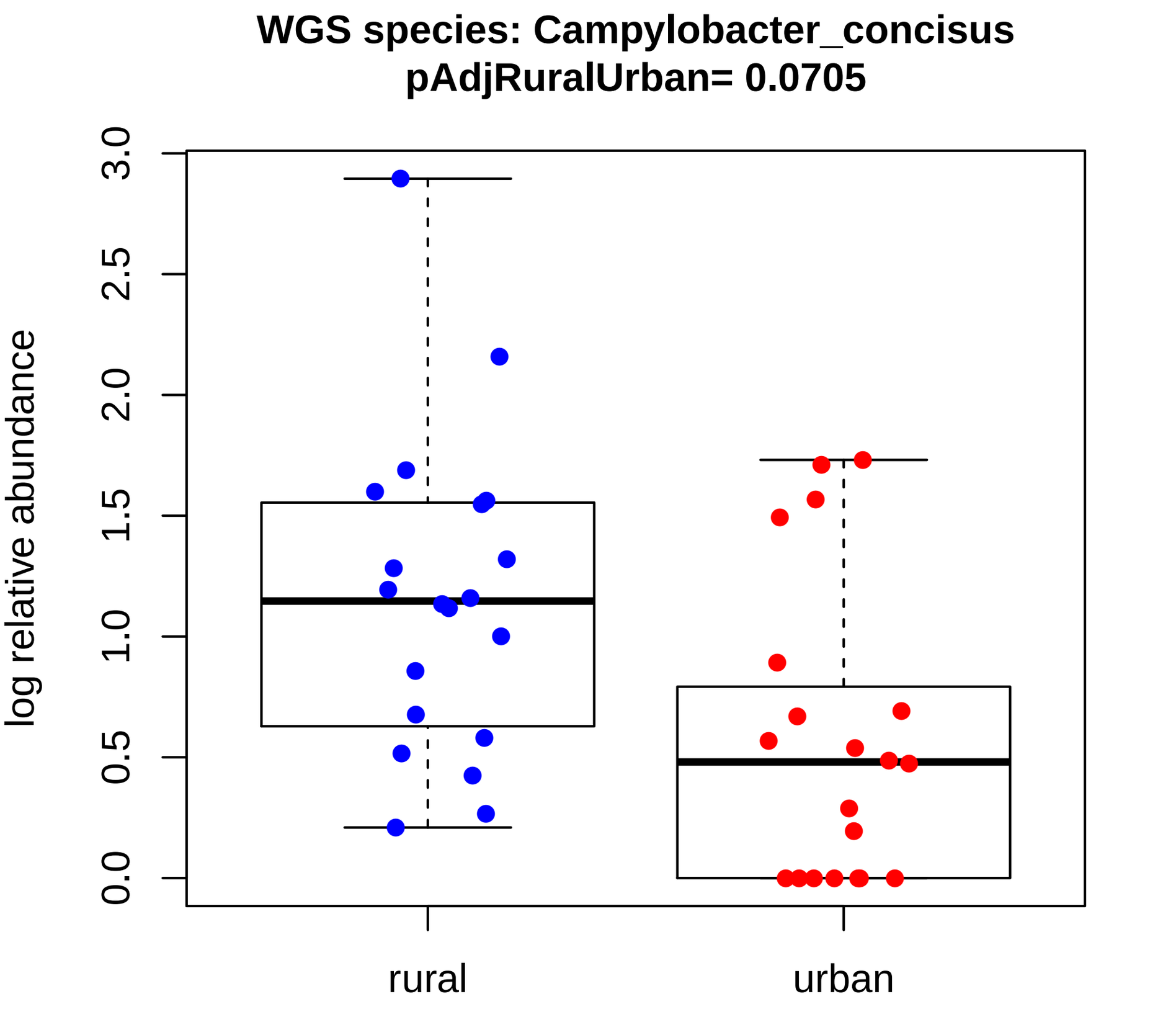

WGS species: Cryptobacterium_curtum
pAdjRuralUrban= 0.07
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

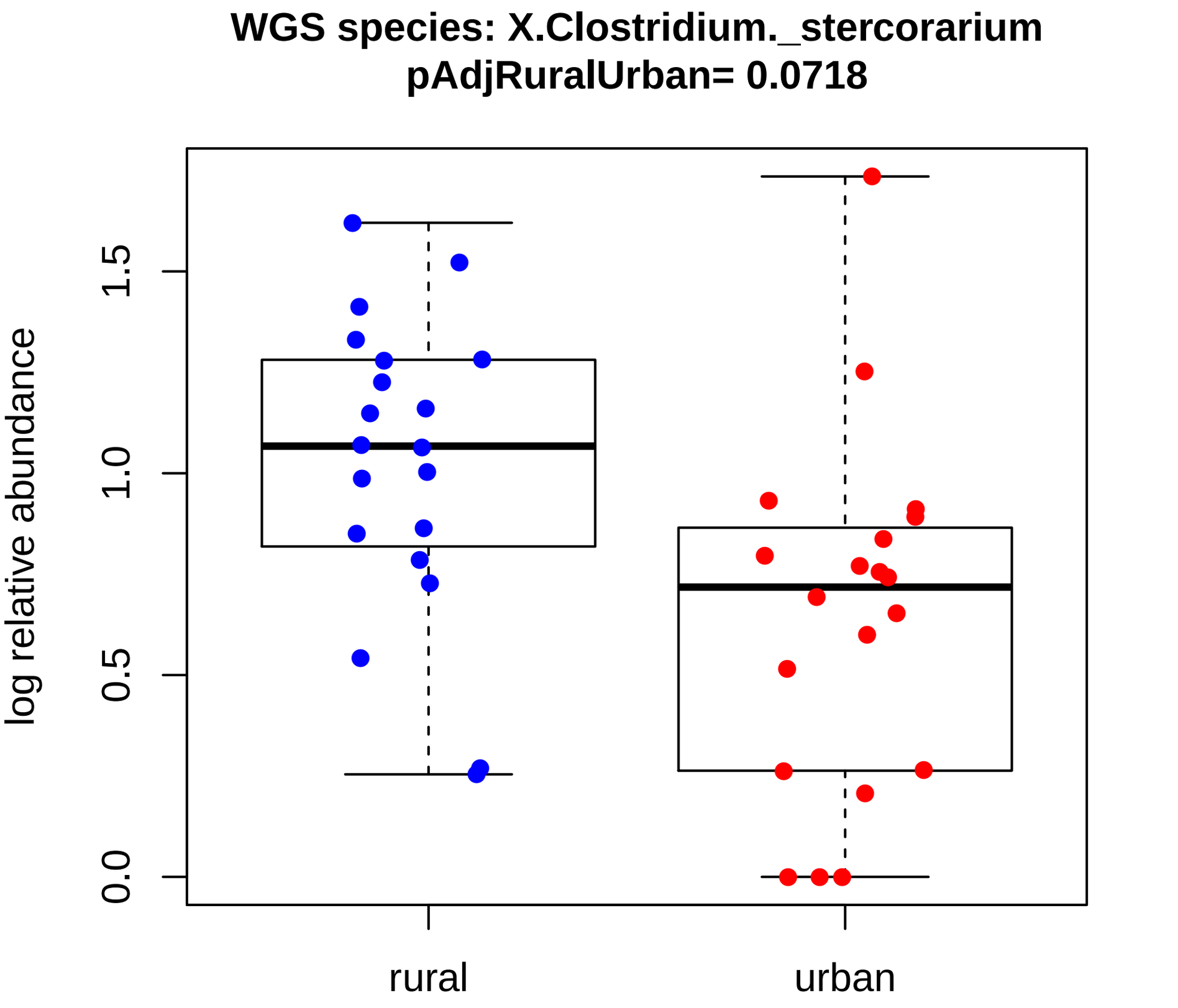

WGS species: Thiomonas_intermedia
pAdjRuralUrban= 0.07
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

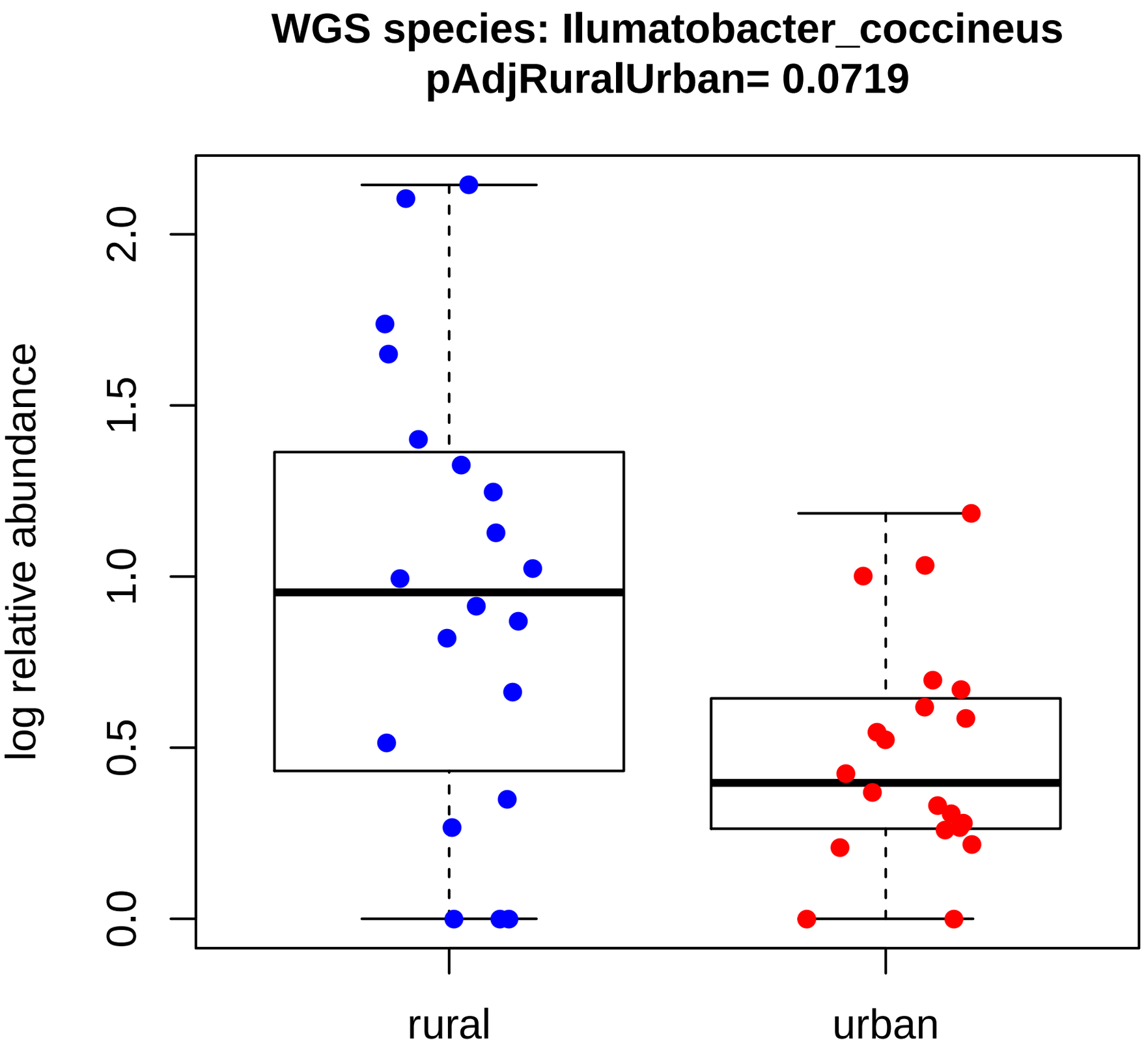

WGS species: Slackia_heliotrinireducens
pAdjRuralUrban= 0.07
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

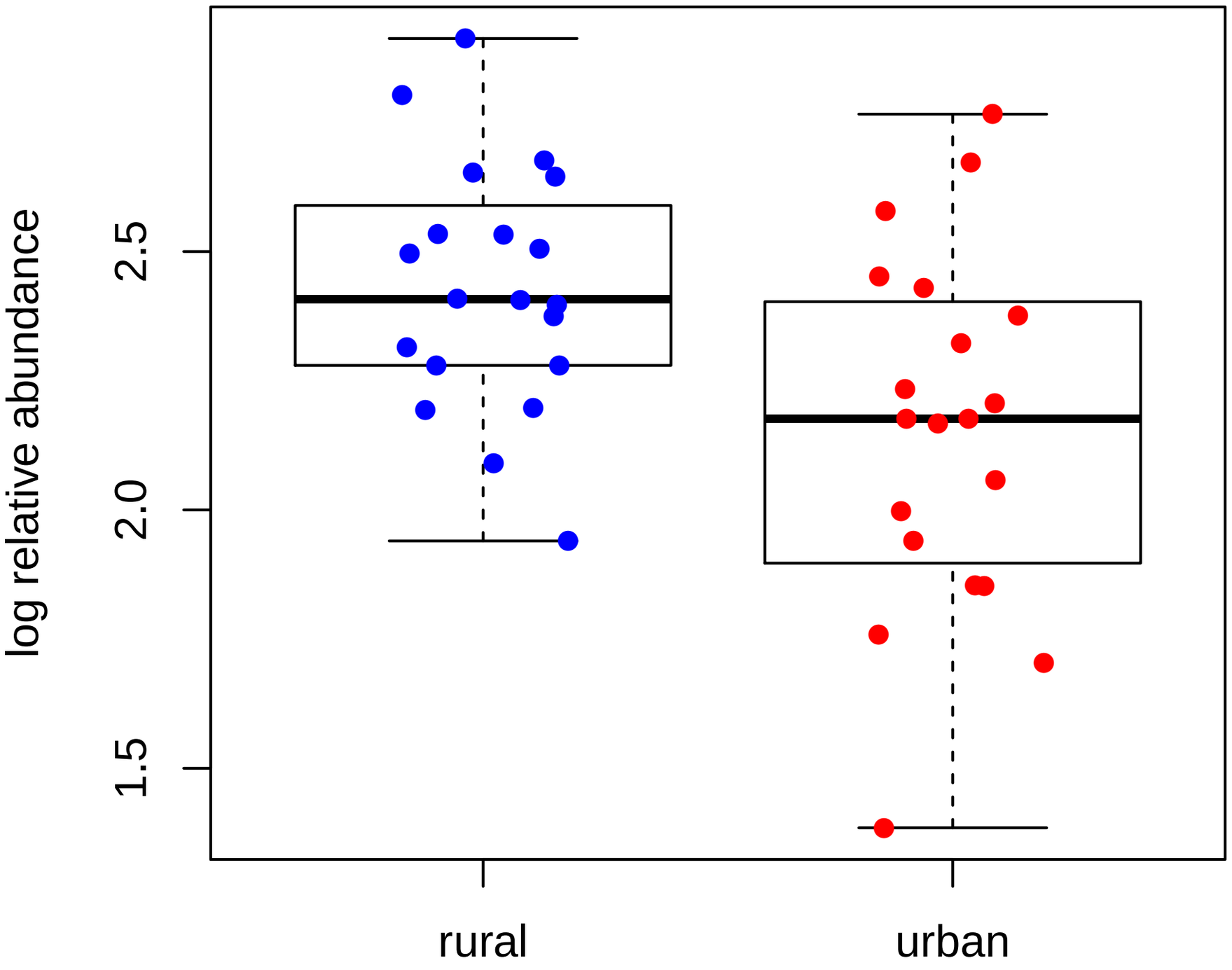

WGS species: Geobacter_metallireducens
pAdjRuralUrban= 0.0705
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

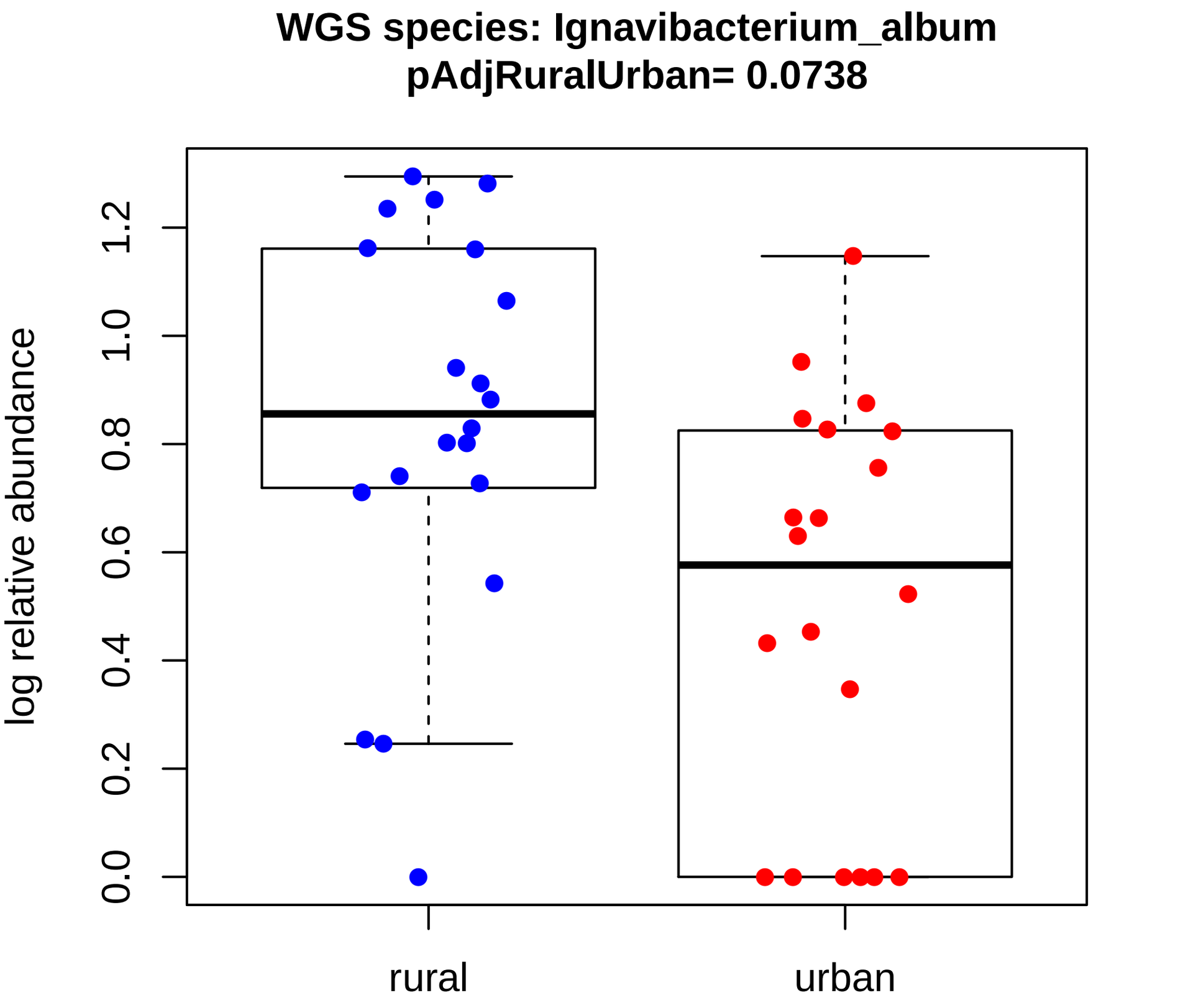

WGS species: Oligotropha_carboxidovorans
pAdjRuralUrban= 0.0705
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

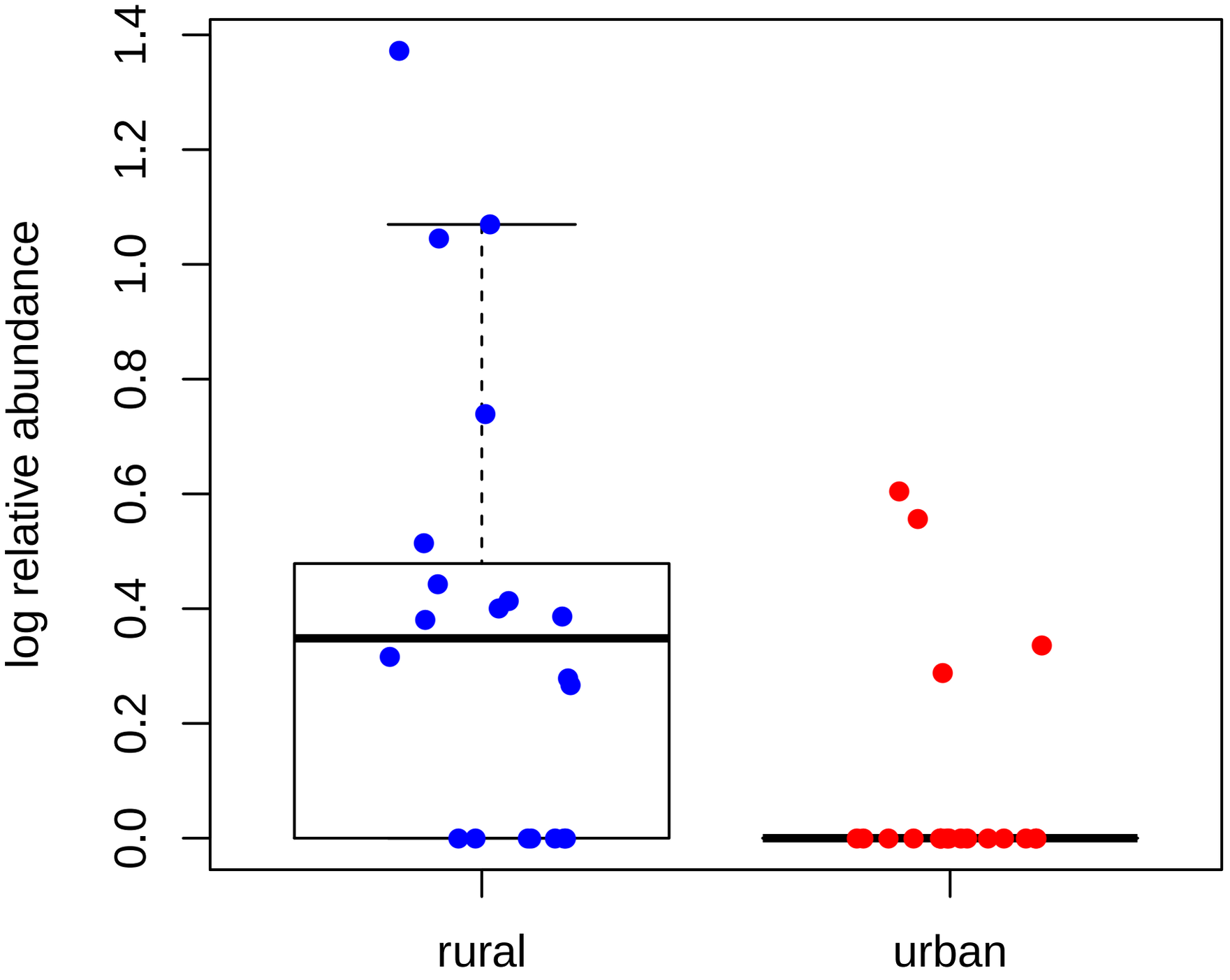

WGS species: Campylobacter_concisus
pAdjRuralUrban= 0.0705
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

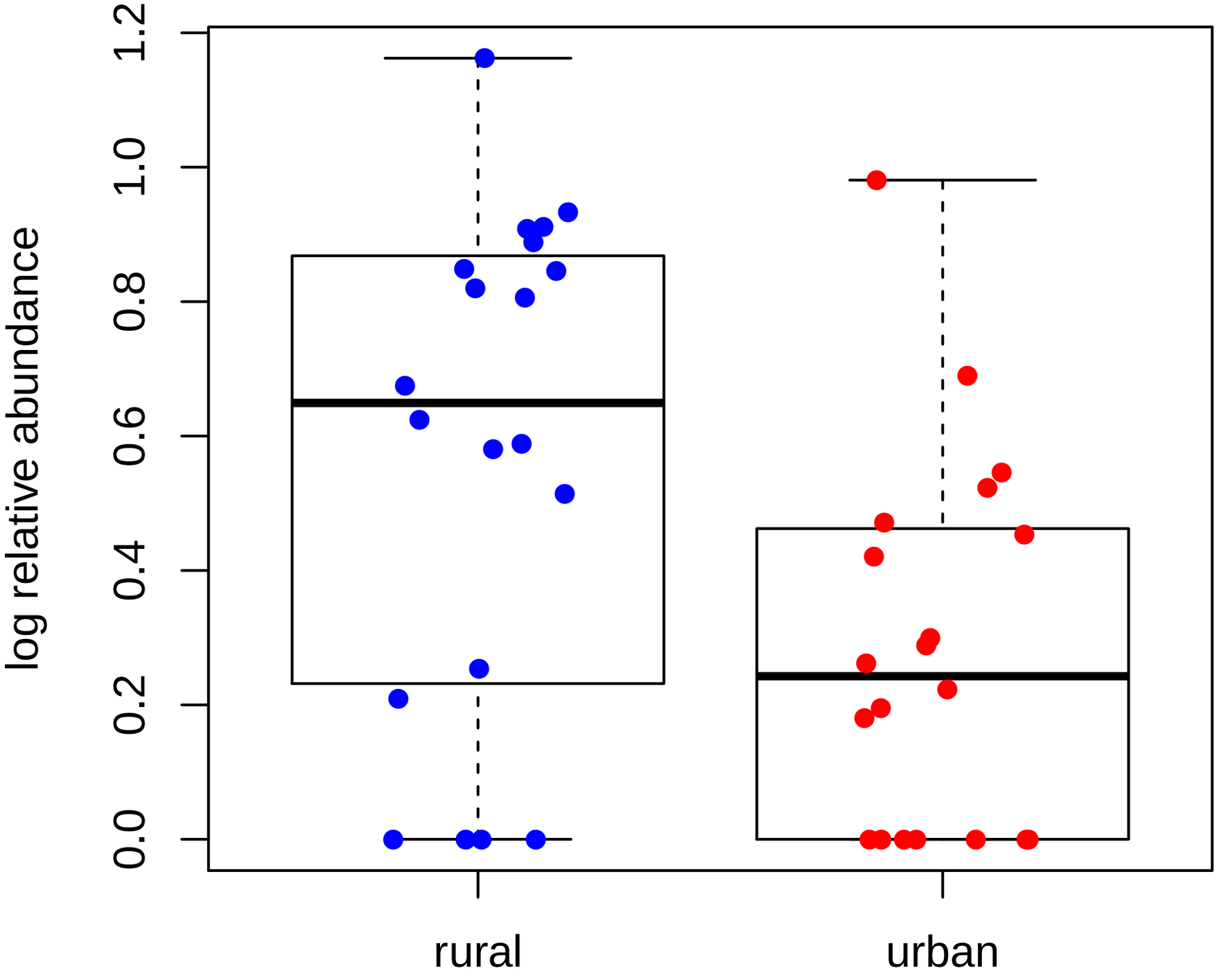

WGS species: X.Clostridium._stercorarium
pAdjRuralUrban= 0.0718
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

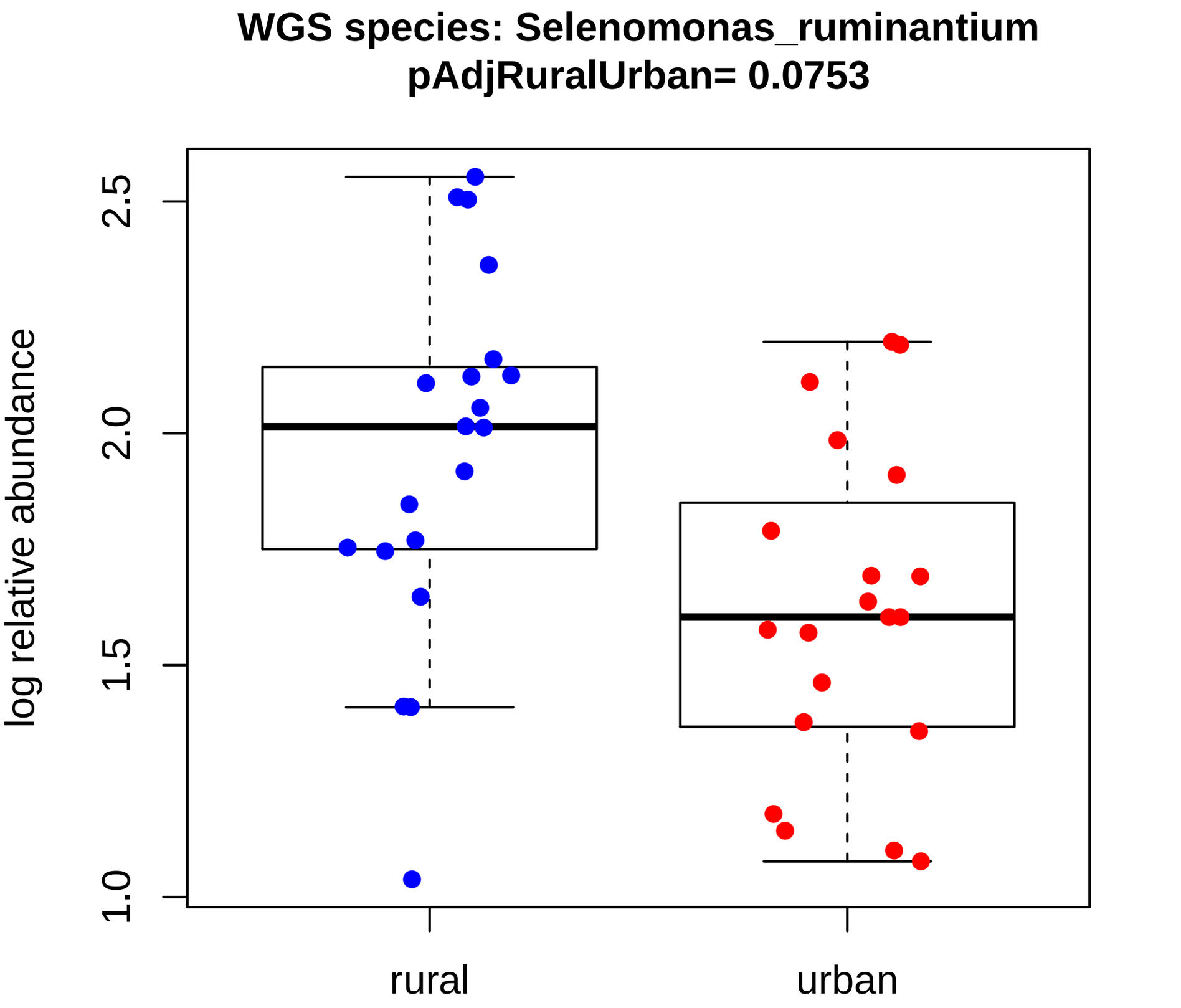

WGS species: Ilumatobacter_coccineus
pAdjRuralUrban= 0.0719
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

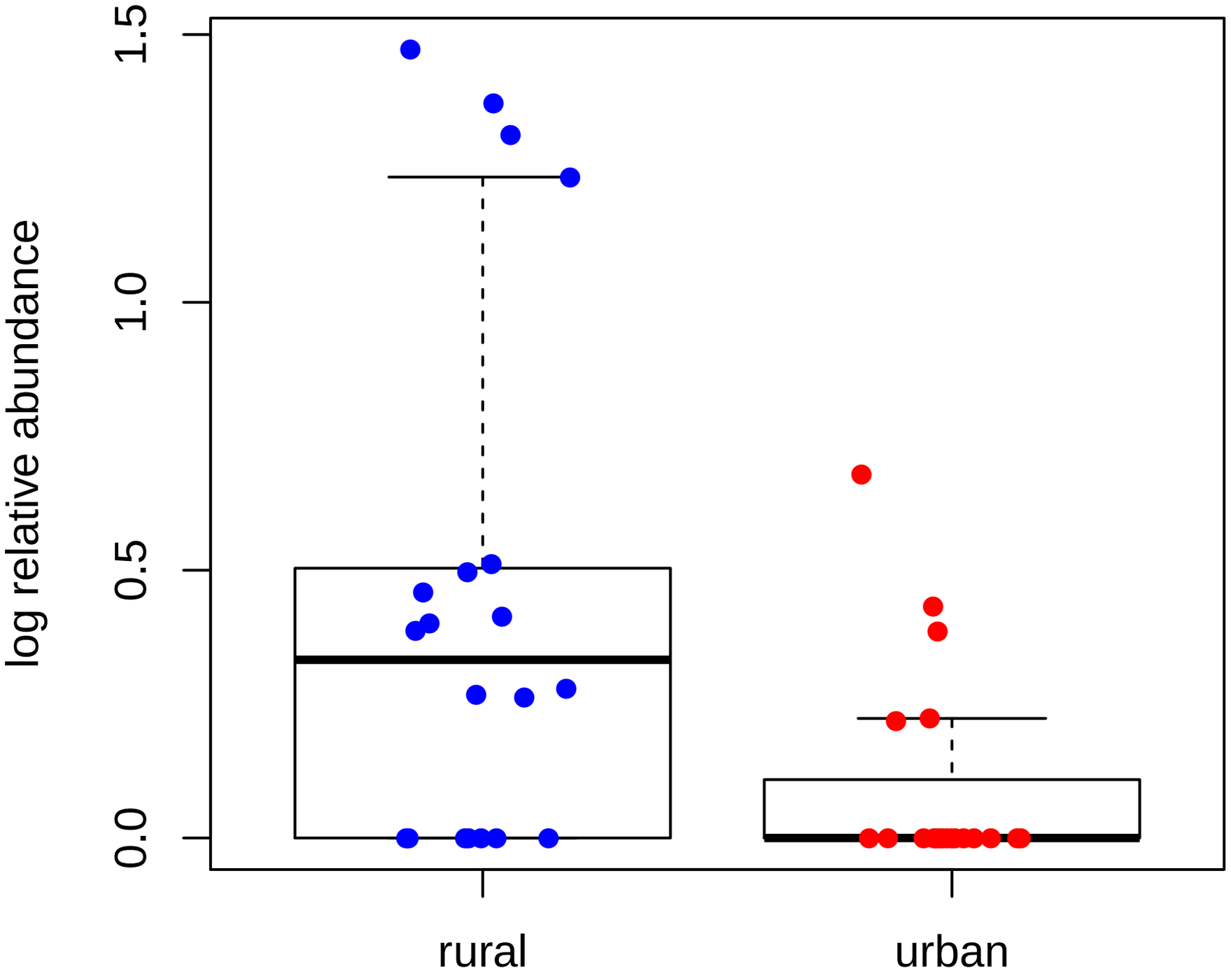

WGS species: Butyrivibrio_fibrisolvens
pAdjRuralUrban= 0.0726
log relative abundance
1.5
2.0
2.5
rural
urban

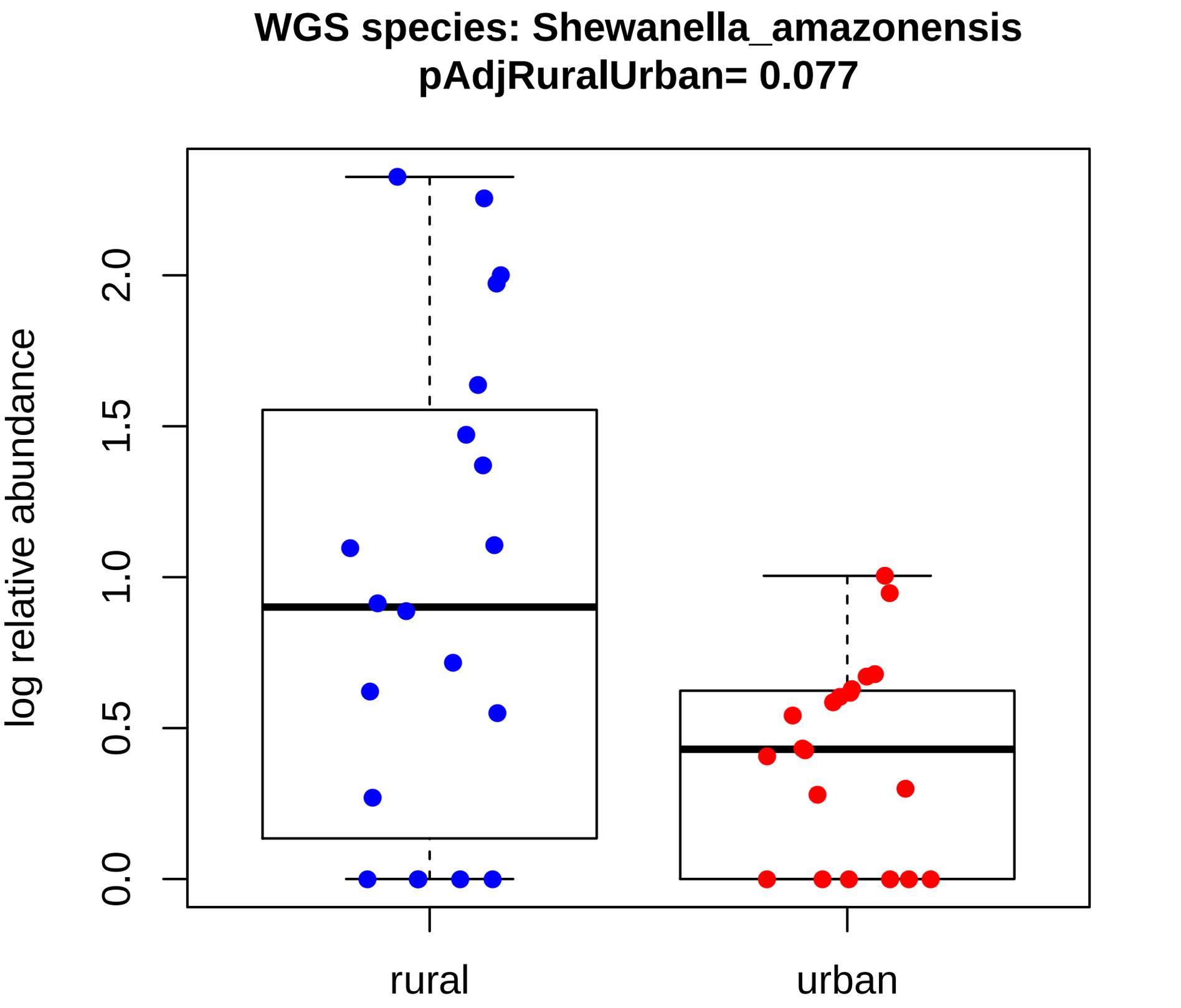

WGS species: Ignavibacterium_album
pAdjRuralUrban= 0.0738
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

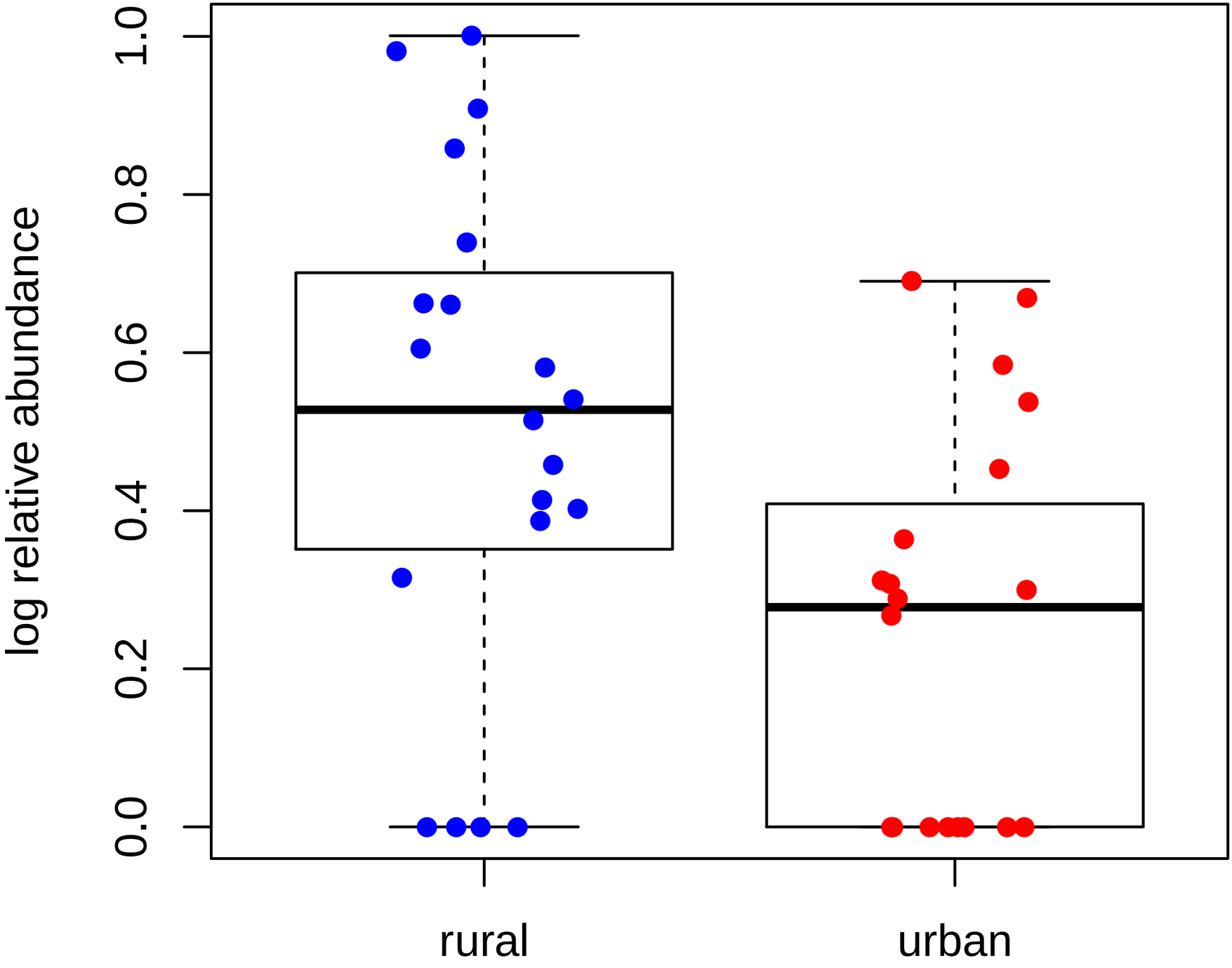

WGS species: Corynebacterium_kroppenstedtii
pAdjRuralUrban= 0.0738
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

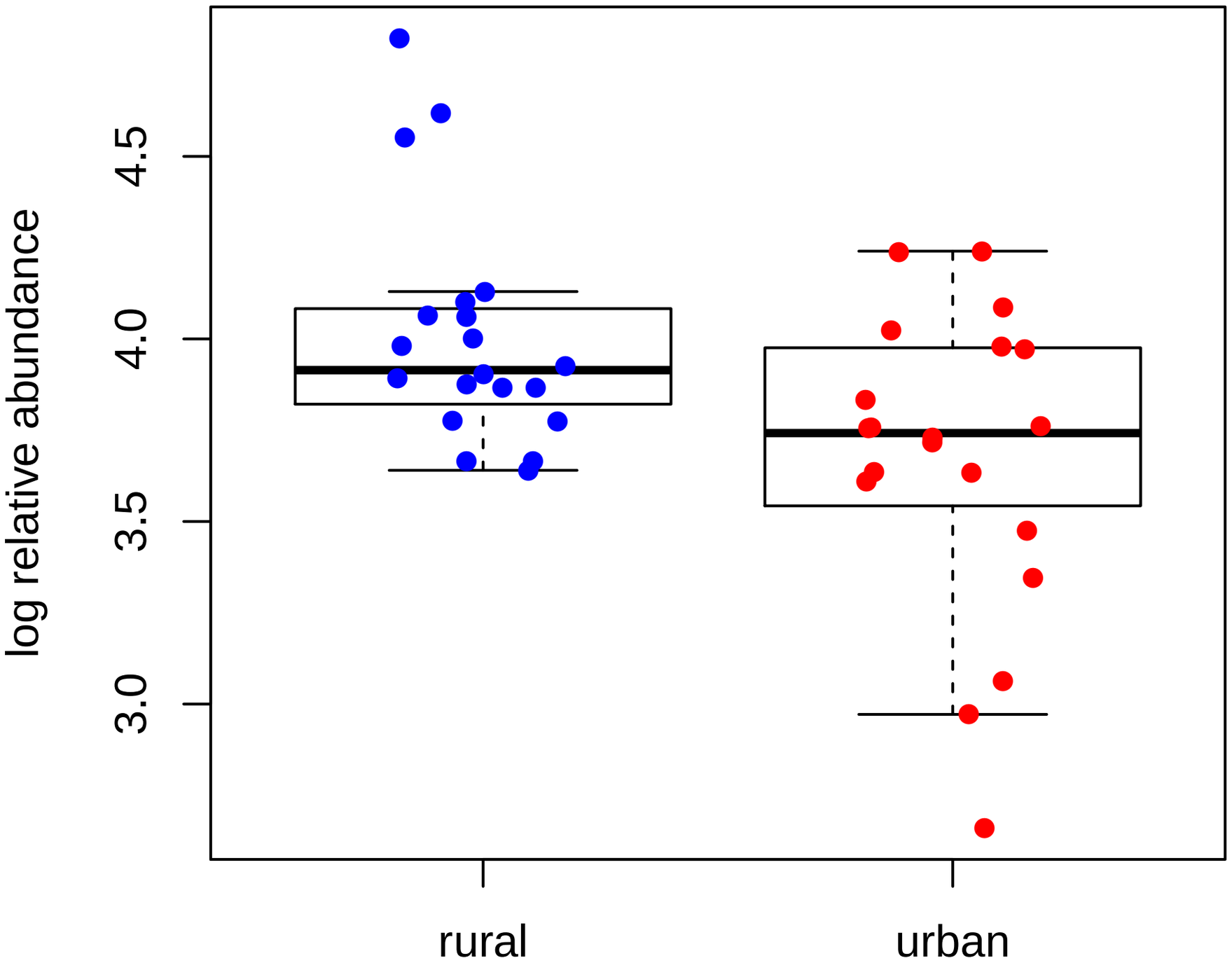

WGS species: Salinibacter_ruber
pAdjRuralUrban= 0.0743
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

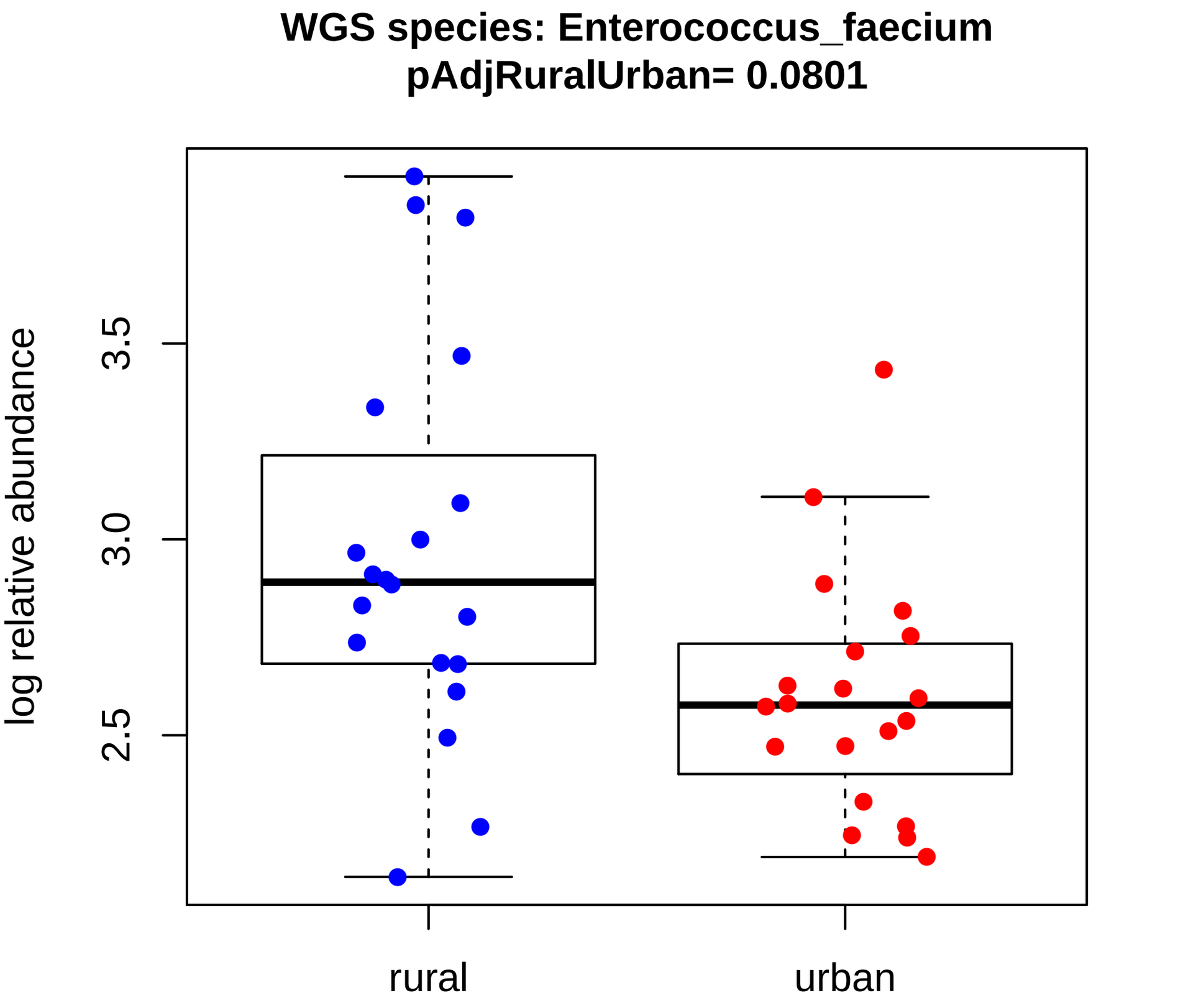

WGS species: Selenomonas_ruminantium
pAdjRuralUrban= 0.0753
log relative abundance
2.5
2.0
1.5
1.0
rural
urban

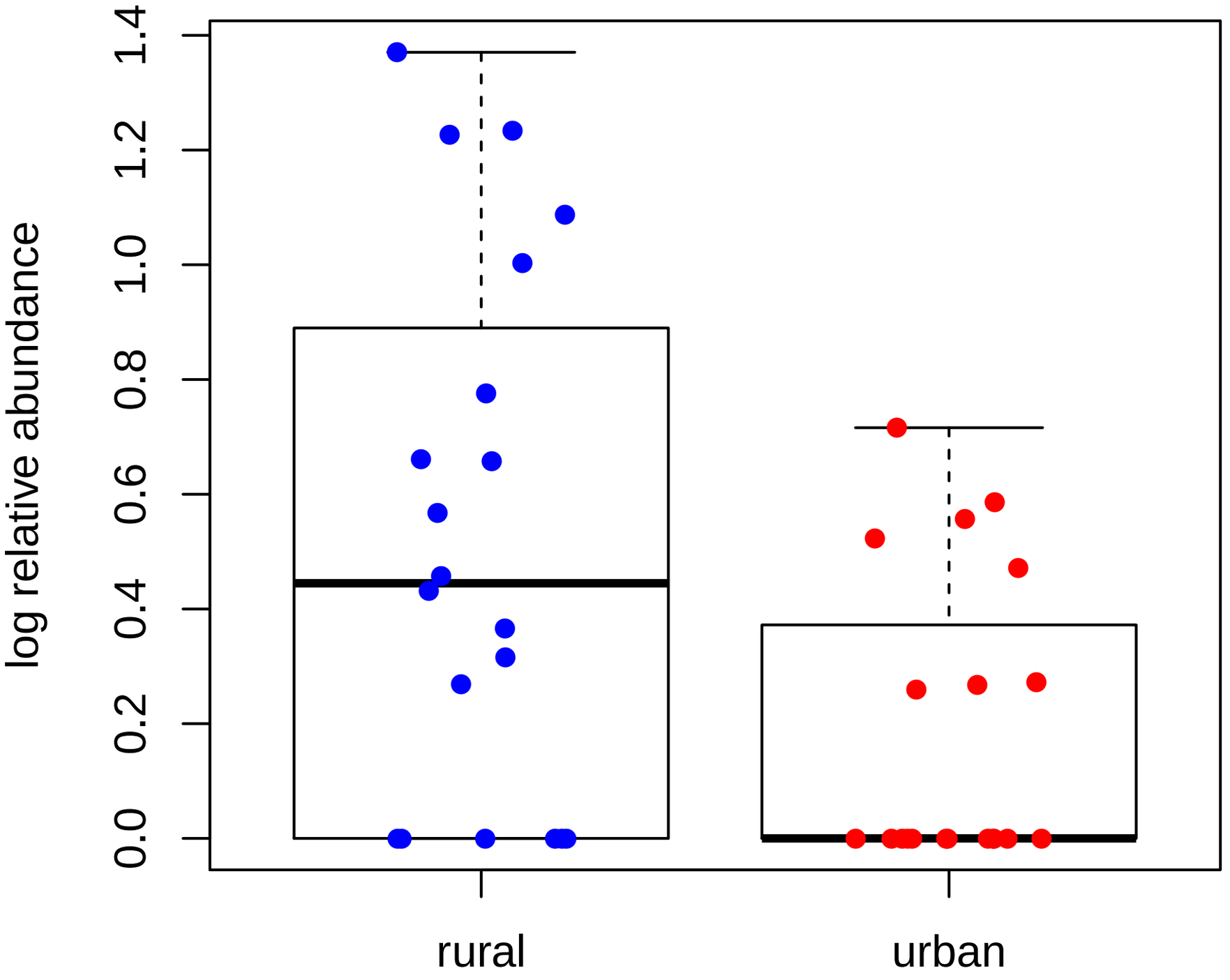

WGS species: Fervidobacterium_pennivorans
pAdjRuralUrban= 0.077
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

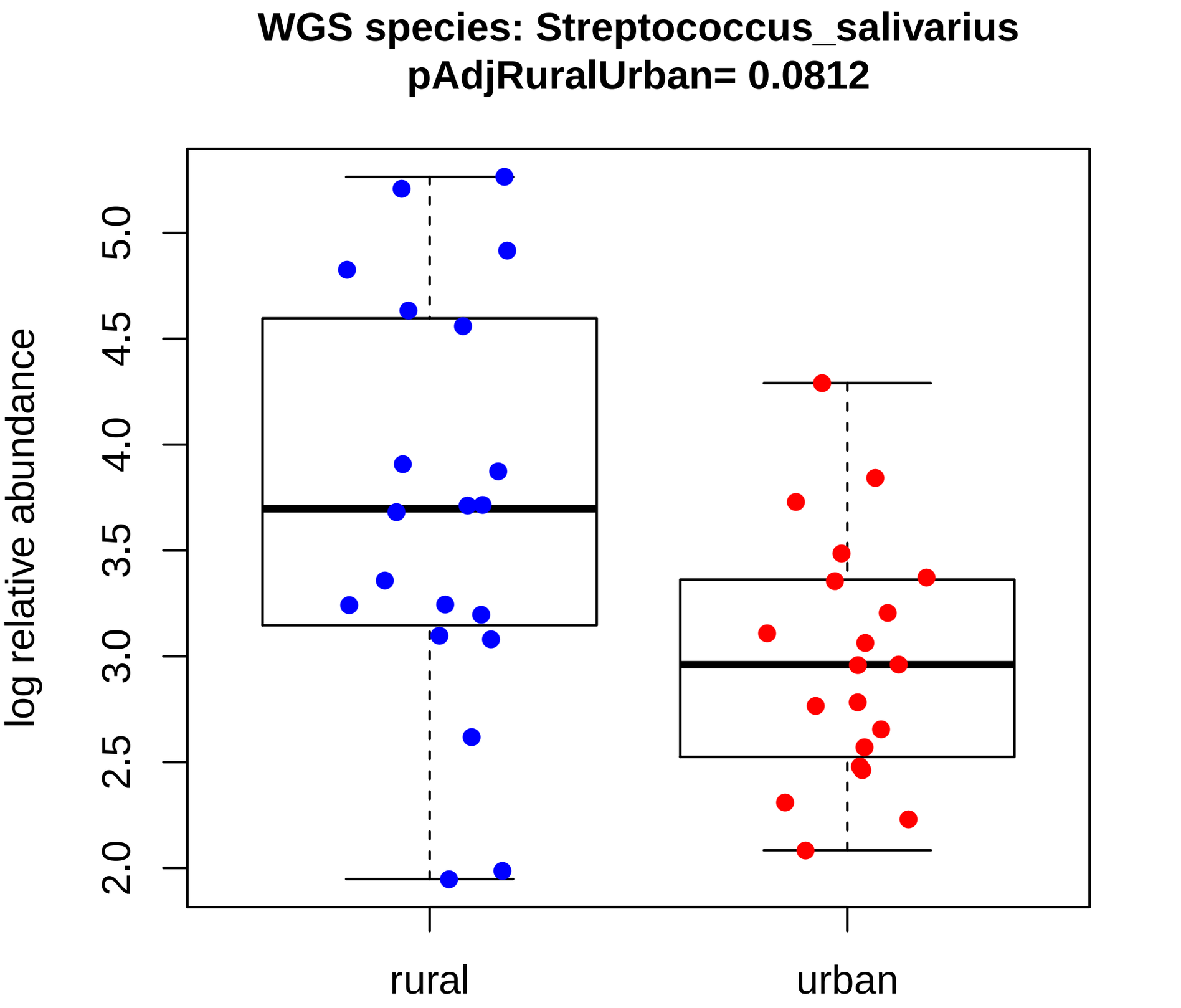

WGS species: Shewanella_amazonensis
pAdjRuralUrban= 0.077
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

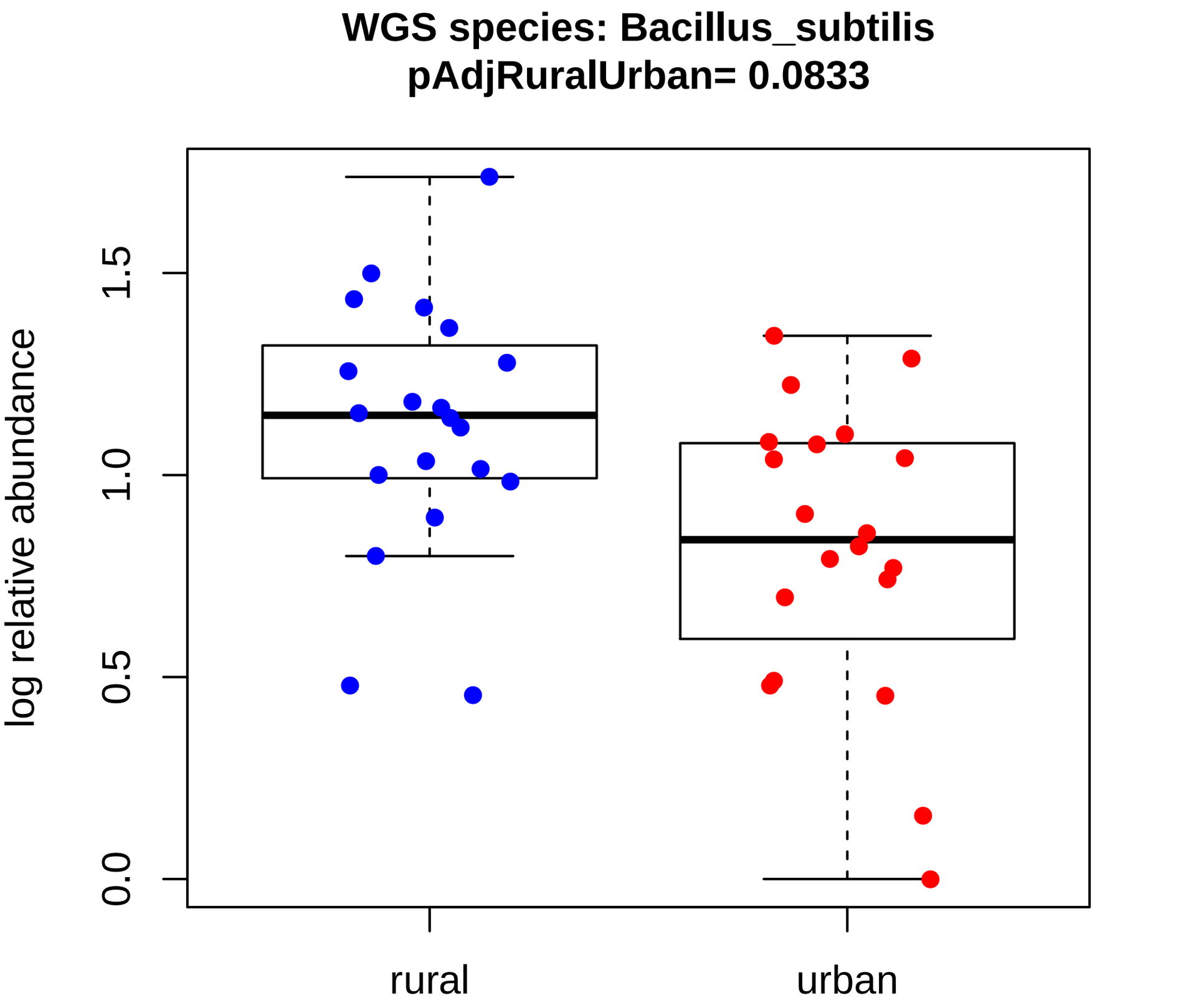

WGS species: Actinoplanes_friuliensis
pAdjRuralUrban= 0.077
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

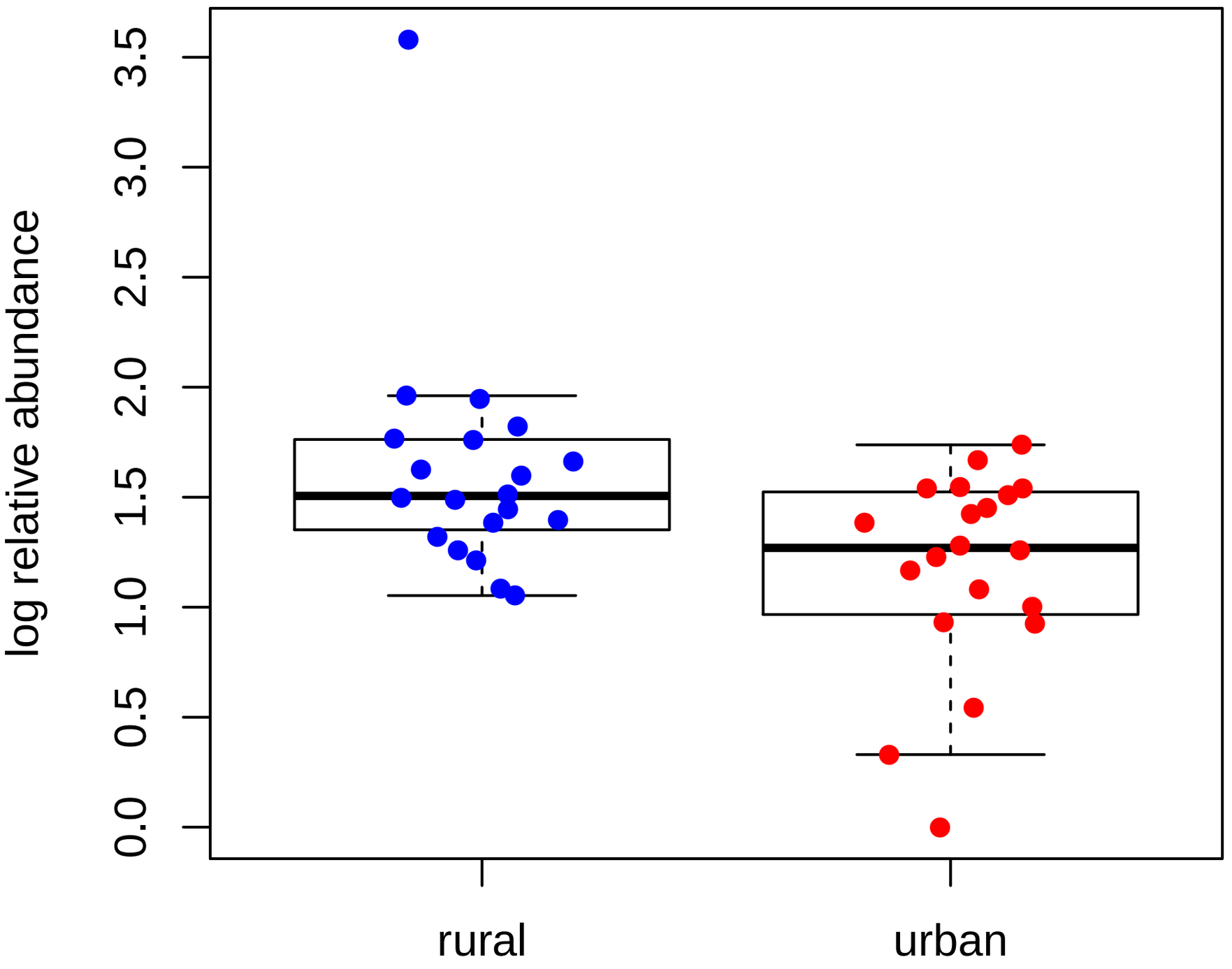

WGS species: Ruminococcus_sp._SR1.5
pAdjRuralUrban= 0.077
log relative abundance
4.5
4.0
3.5
3.0
rural
urban

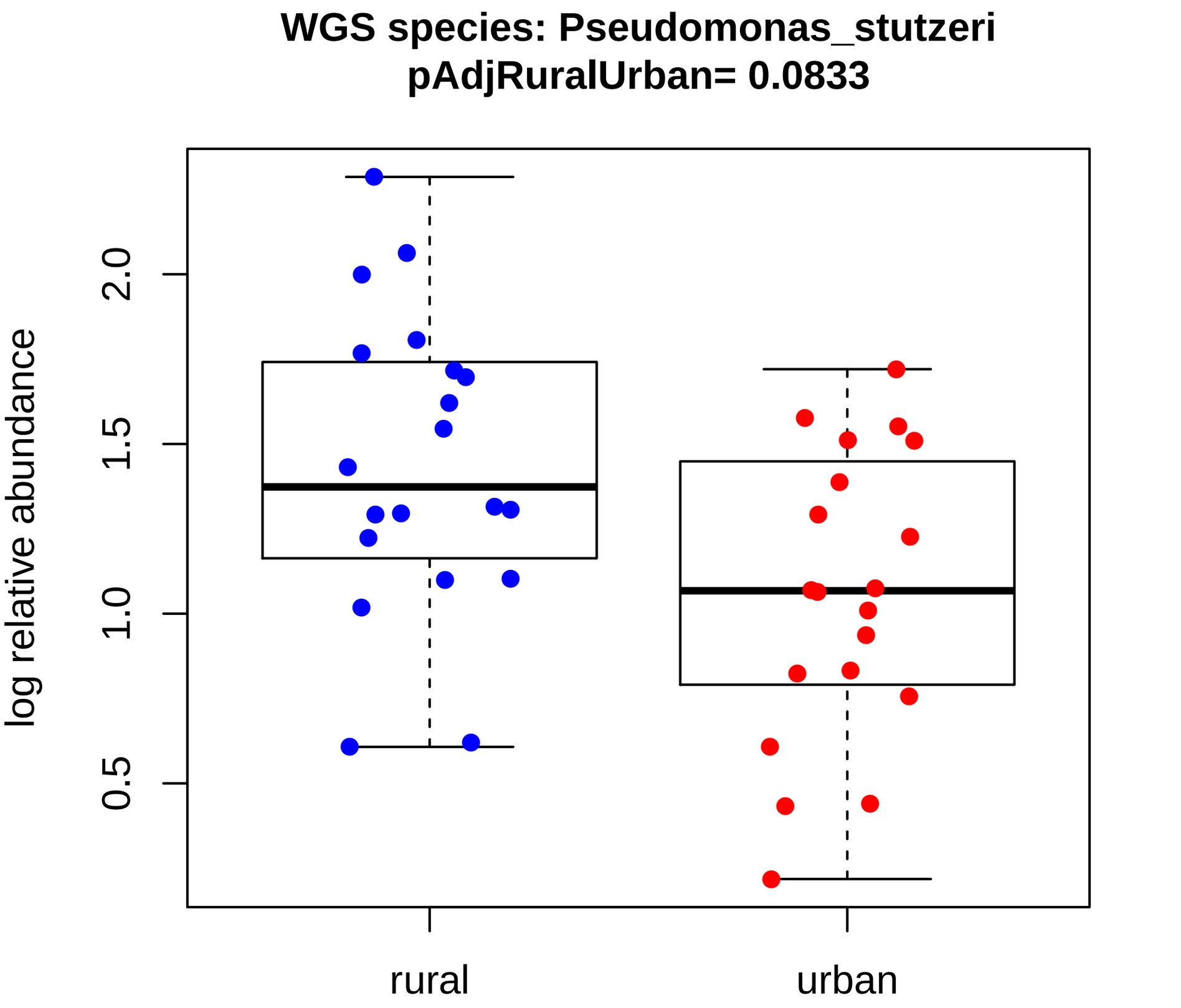

WGS species: Enterococcus_faecium
pAdjRuralUrban= 0.0801
log relative abundance
2.5
3.0
3.5
rural
urban

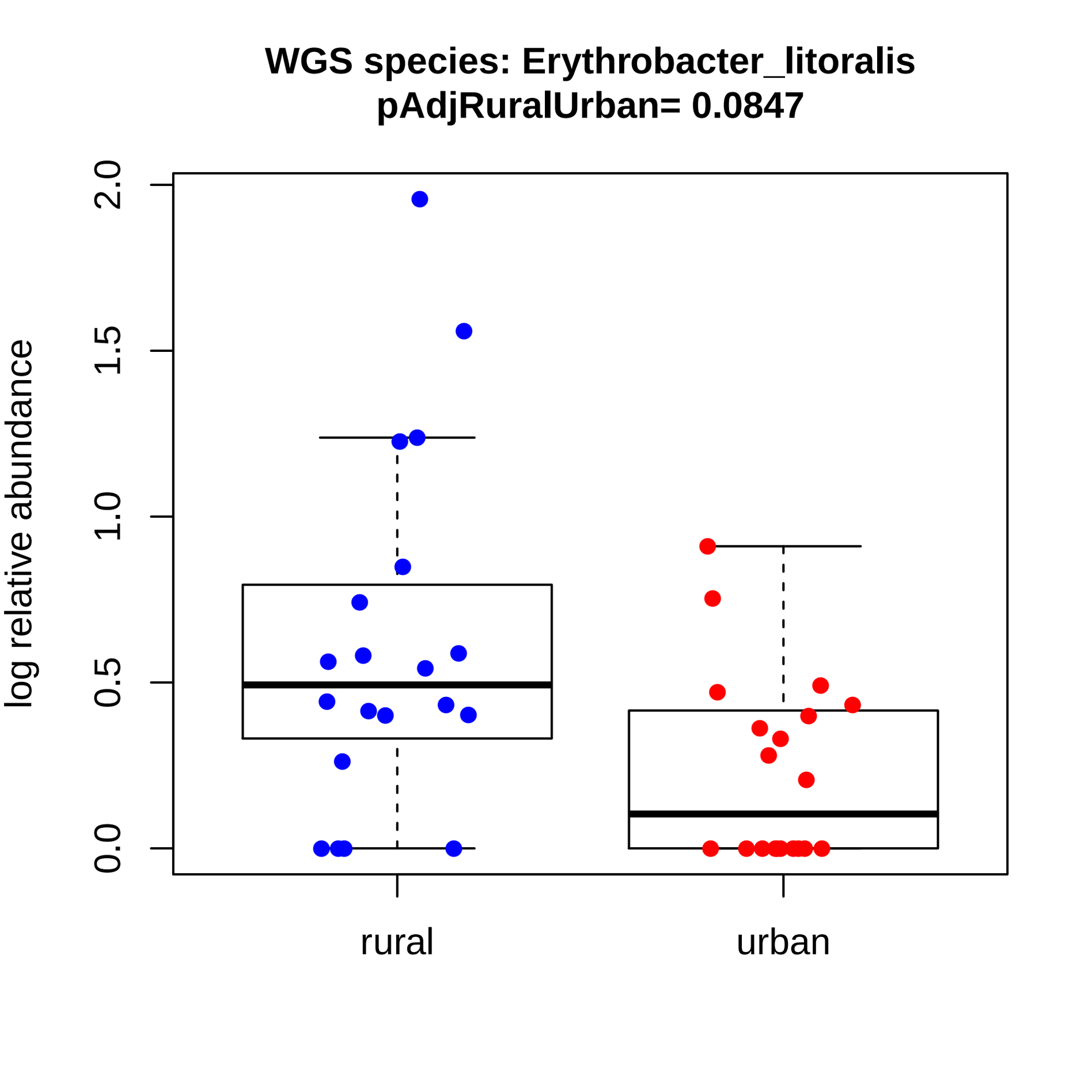

WGS species: Burkholderia_glumae
pAdjRuralUrban= 0.0811
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

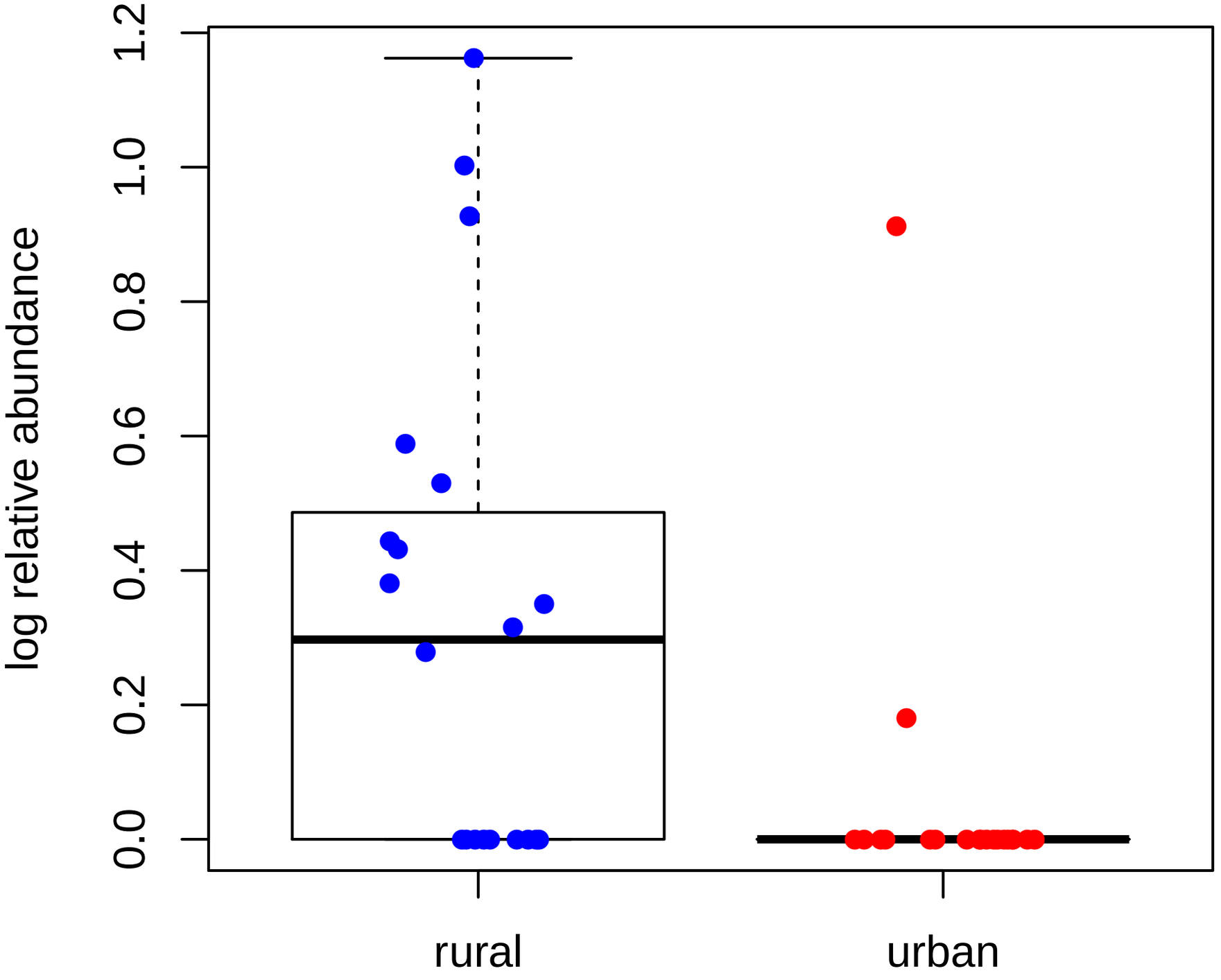

WGS species: Streptococcus_salivarius
pAdjRuralUrban= 0.0812
log relative abundance
2.0
2.5
3.0
3.5
4.0
4.5
5.0
rural
urban

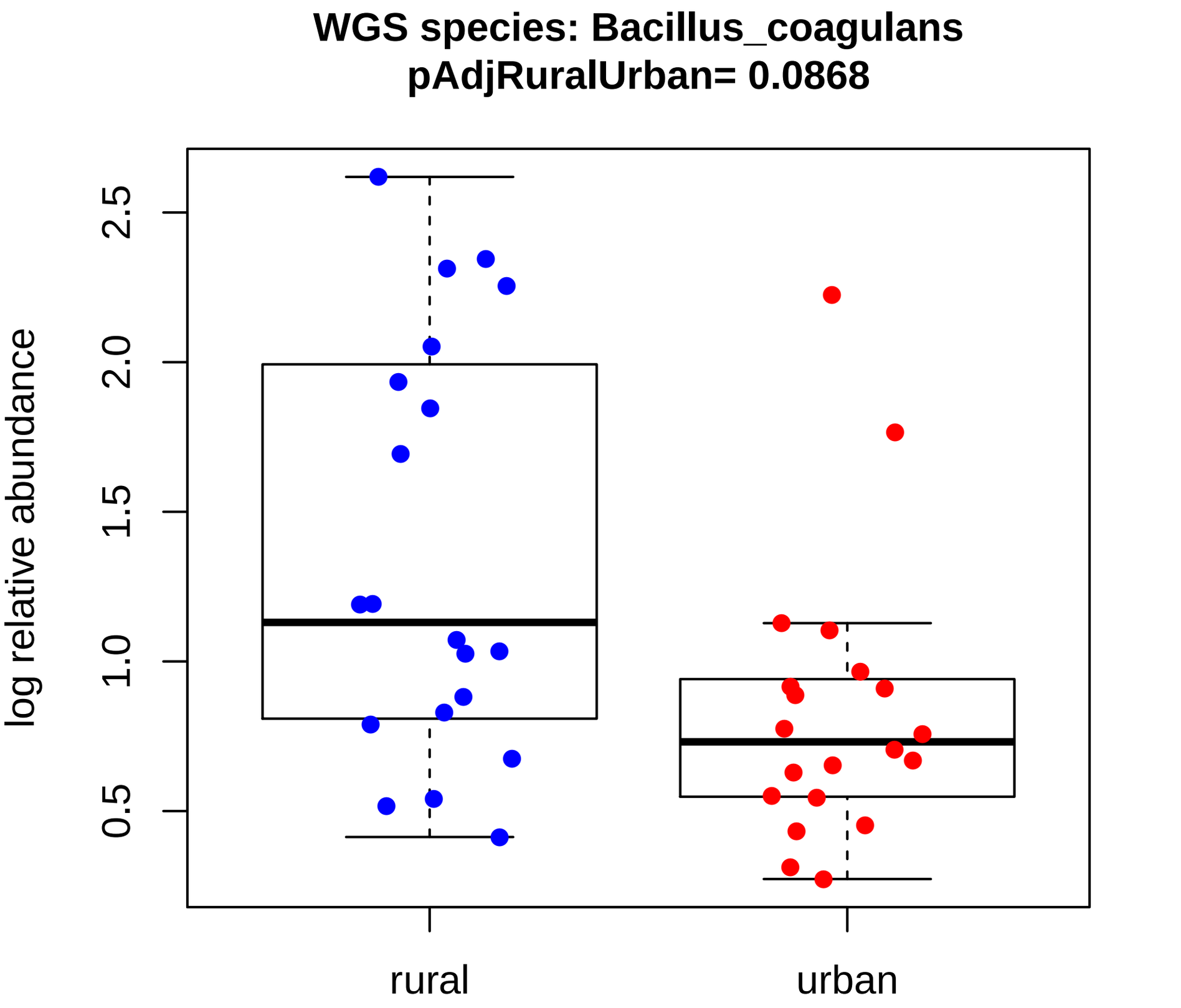

WGS species: Bacillus_subtilis
pAdjRuralUrban= 0.0833
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

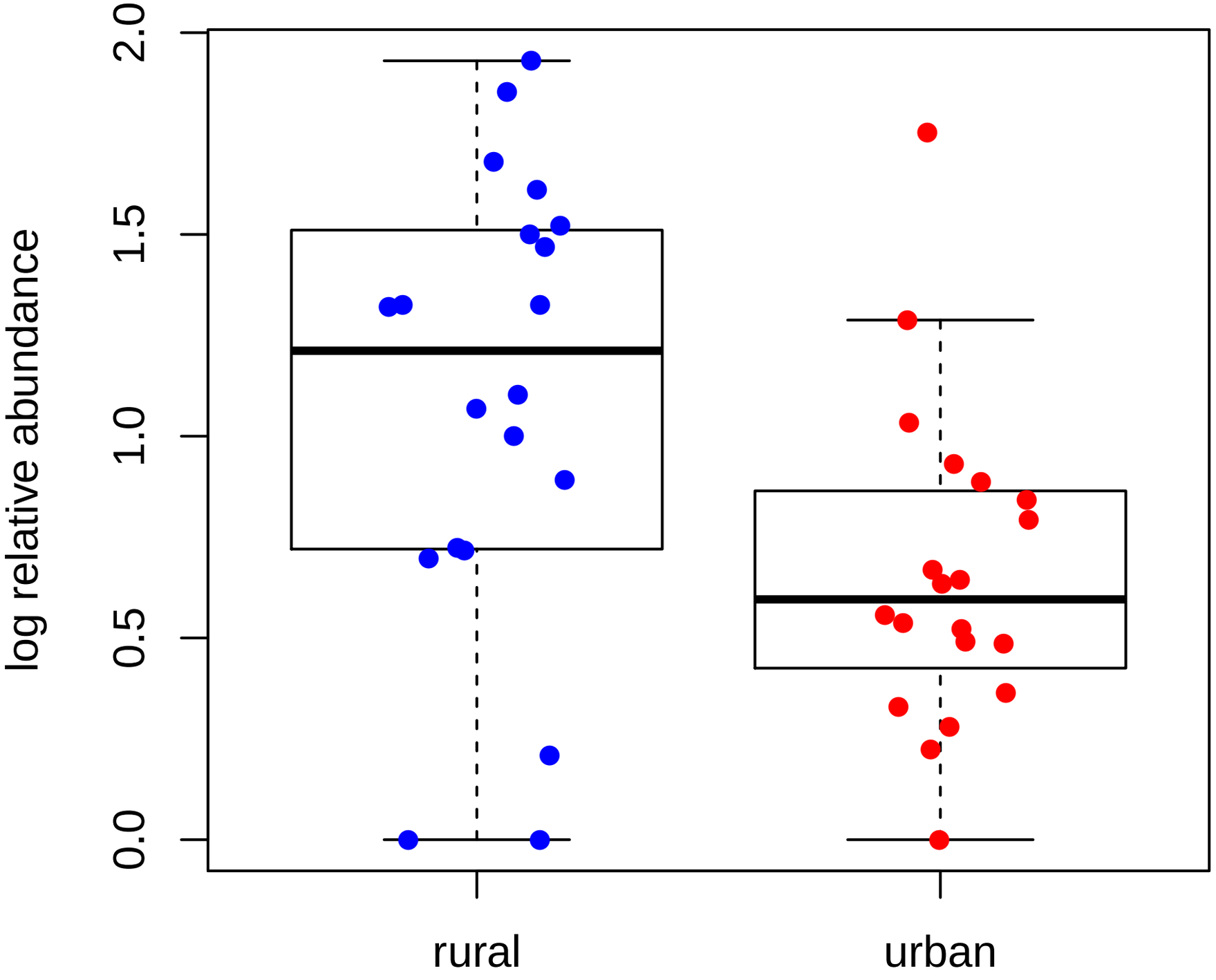

WGS species: Streptococcus_lutetiensis
pAdjRuralUrban= 0.0833
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

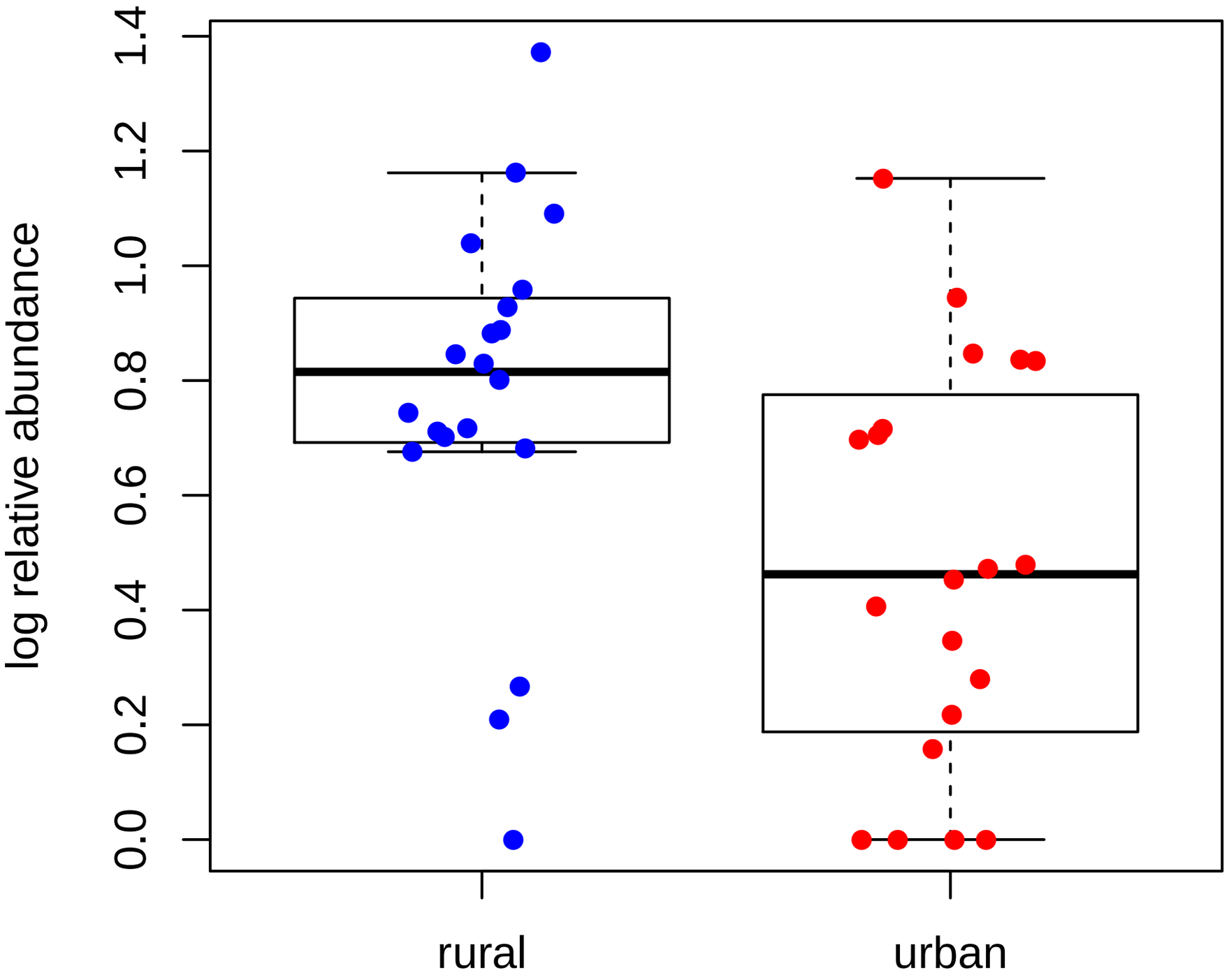

WGS species: Pseudomonas_stutzeri
pAdjRuralUrban= 0.0833
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

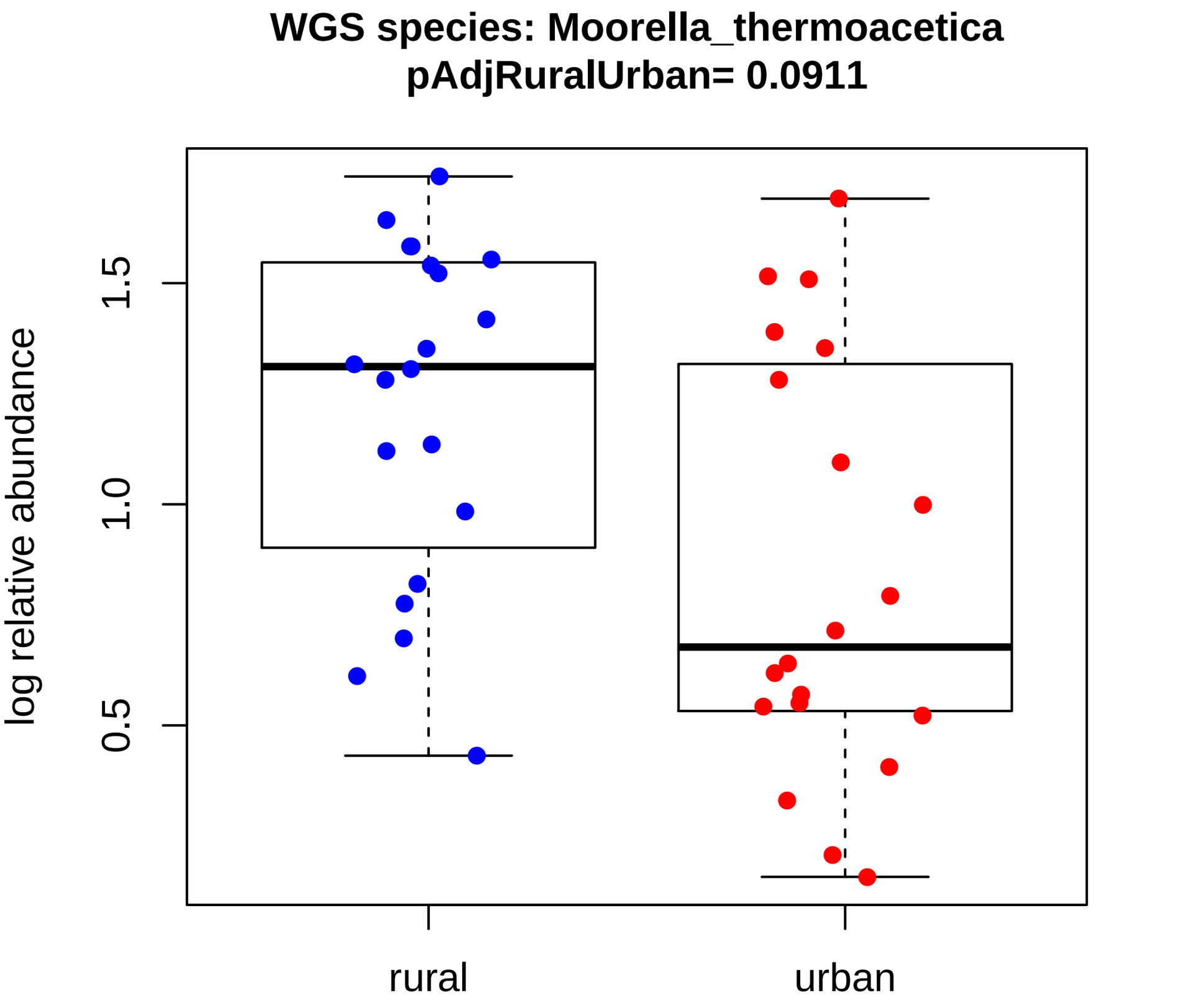

WGS species: Erythrobacter_litoralis
pAdjRuralUrban= 0.0847
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

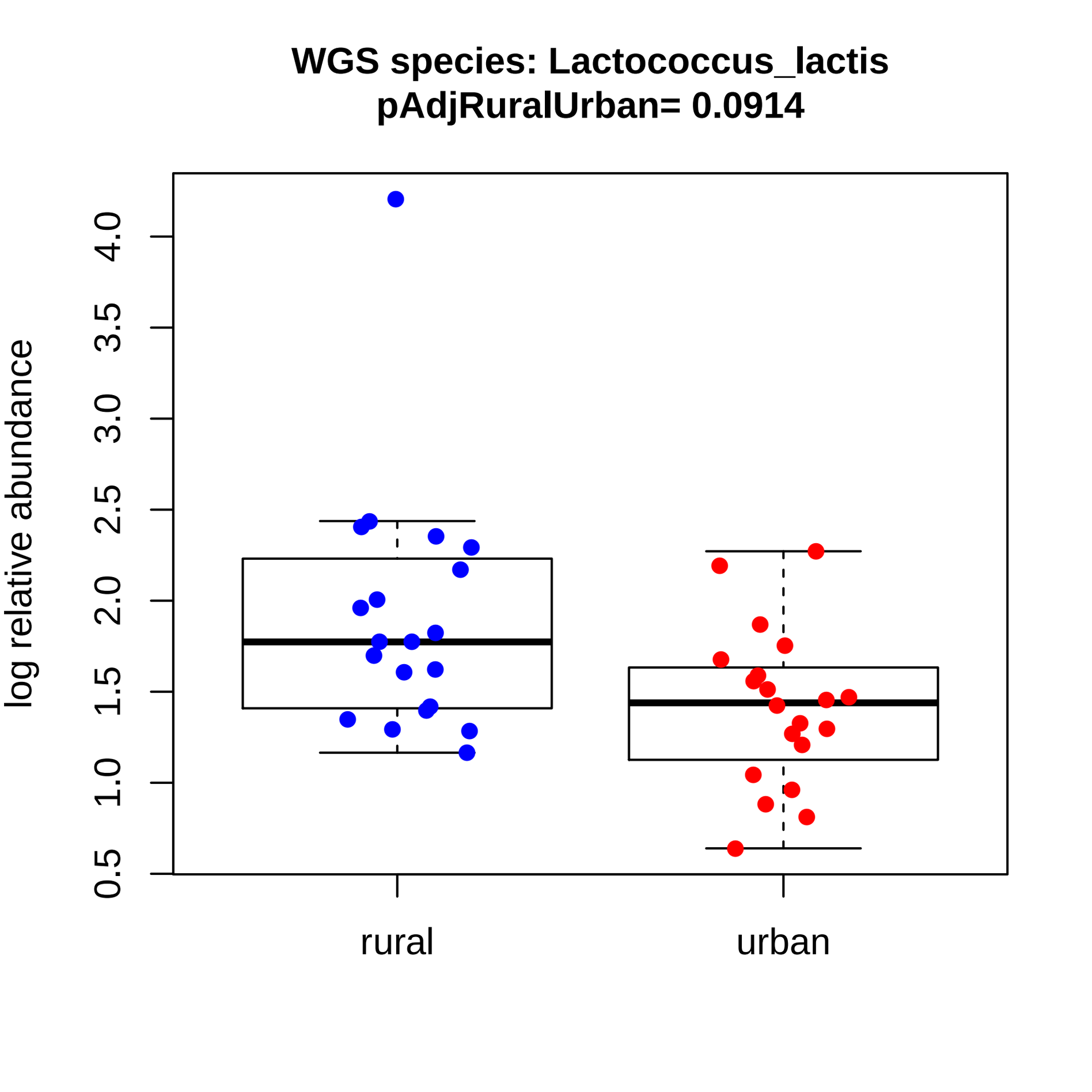

WGS species: Mycoplasma_agalactiae
pAdjRuralUrban= 0.0865
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

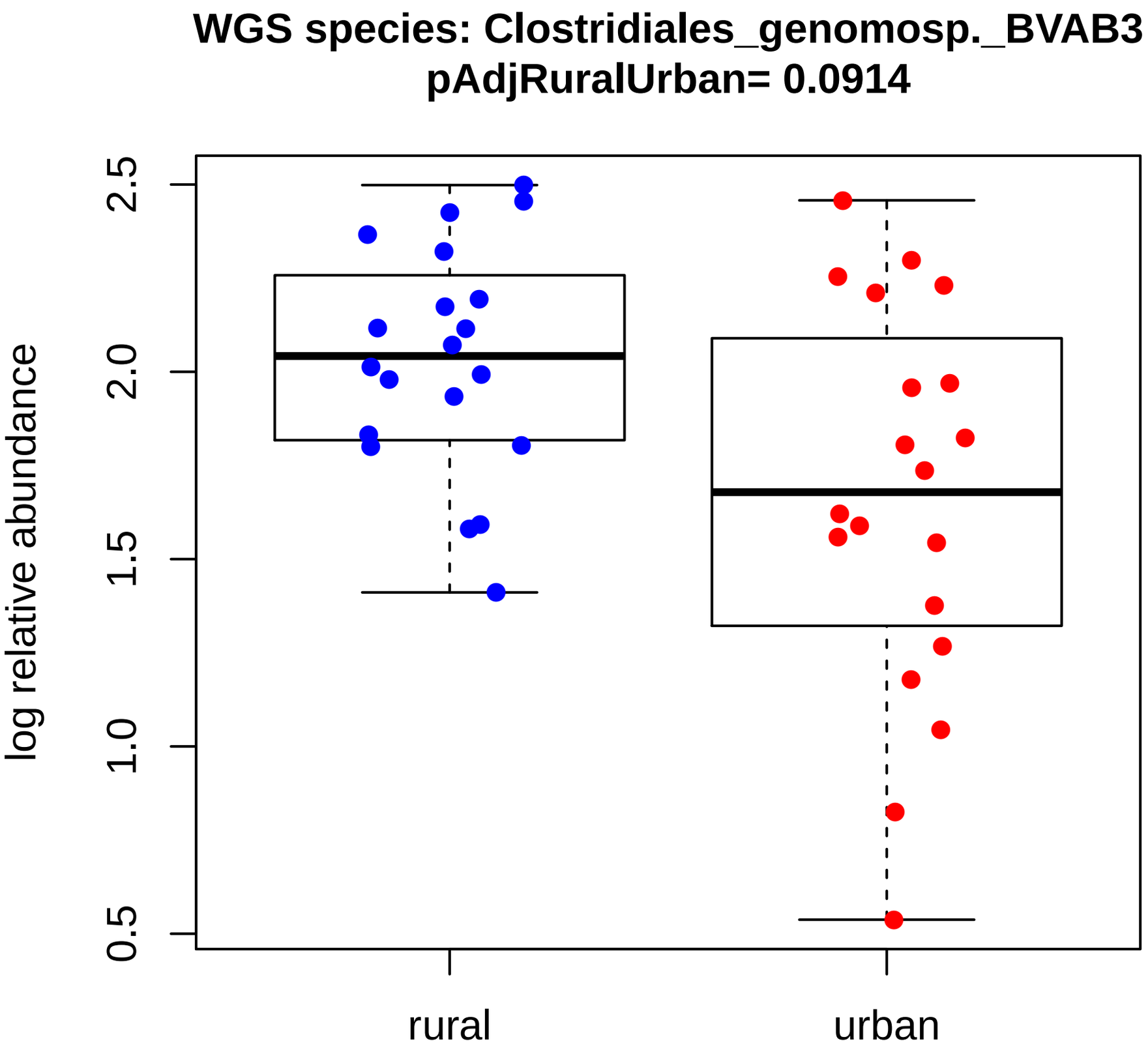

WGS species: Bacillus_coagulans
pAdjRuralUrban= 0.0868
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

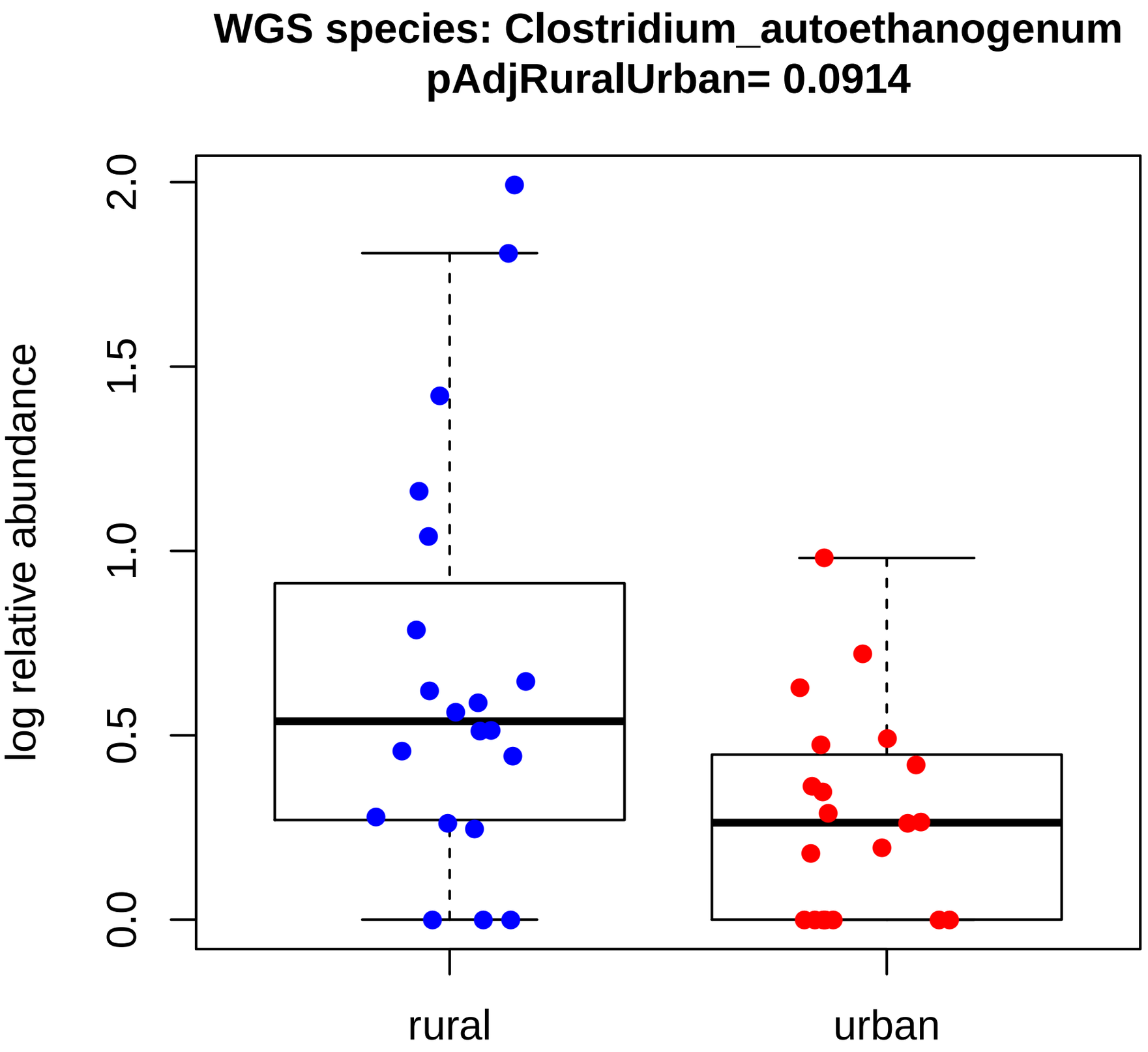

WGS species: Spirochaeta_africana
pAdjRuralUrban= 0.0868
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

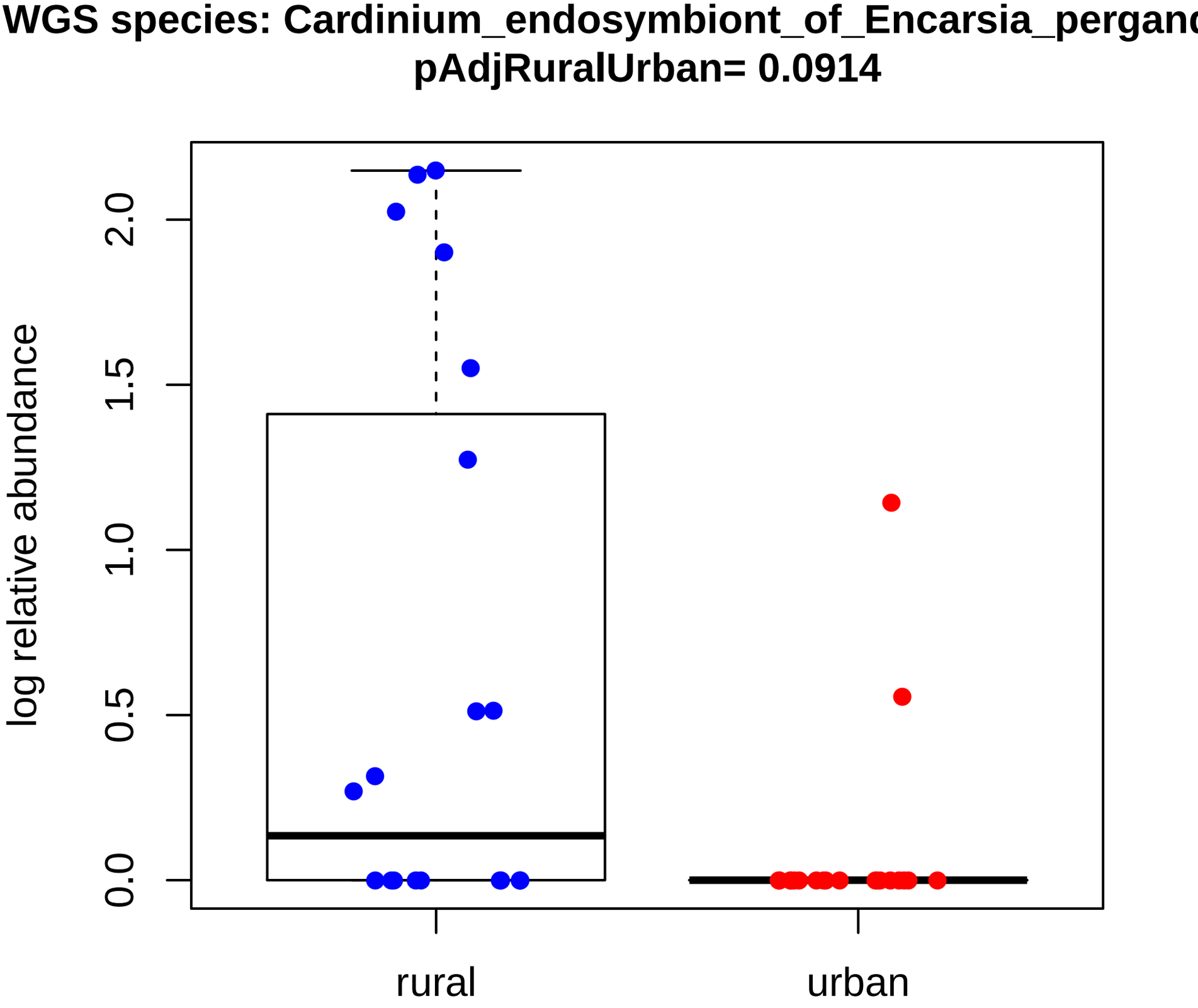

WGS species: Corynebacterium_aurimucosum
pAdjRuralUrban= 0.0873
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

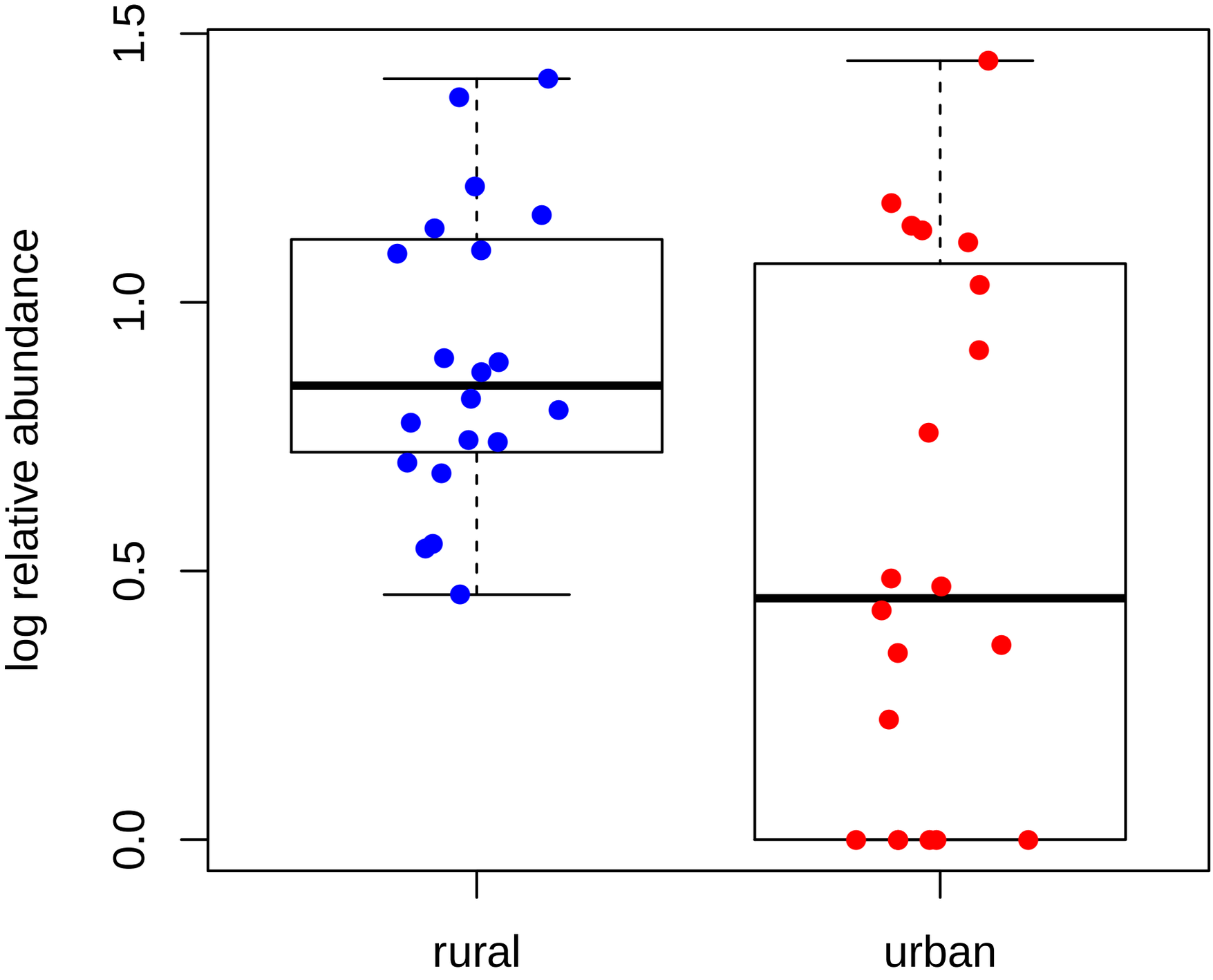

WGS species: Moorella_thermoacetica
pAdjRuralUrban= 0.0911
log relative abundance
0.5
1.0
1.5
rural
urban

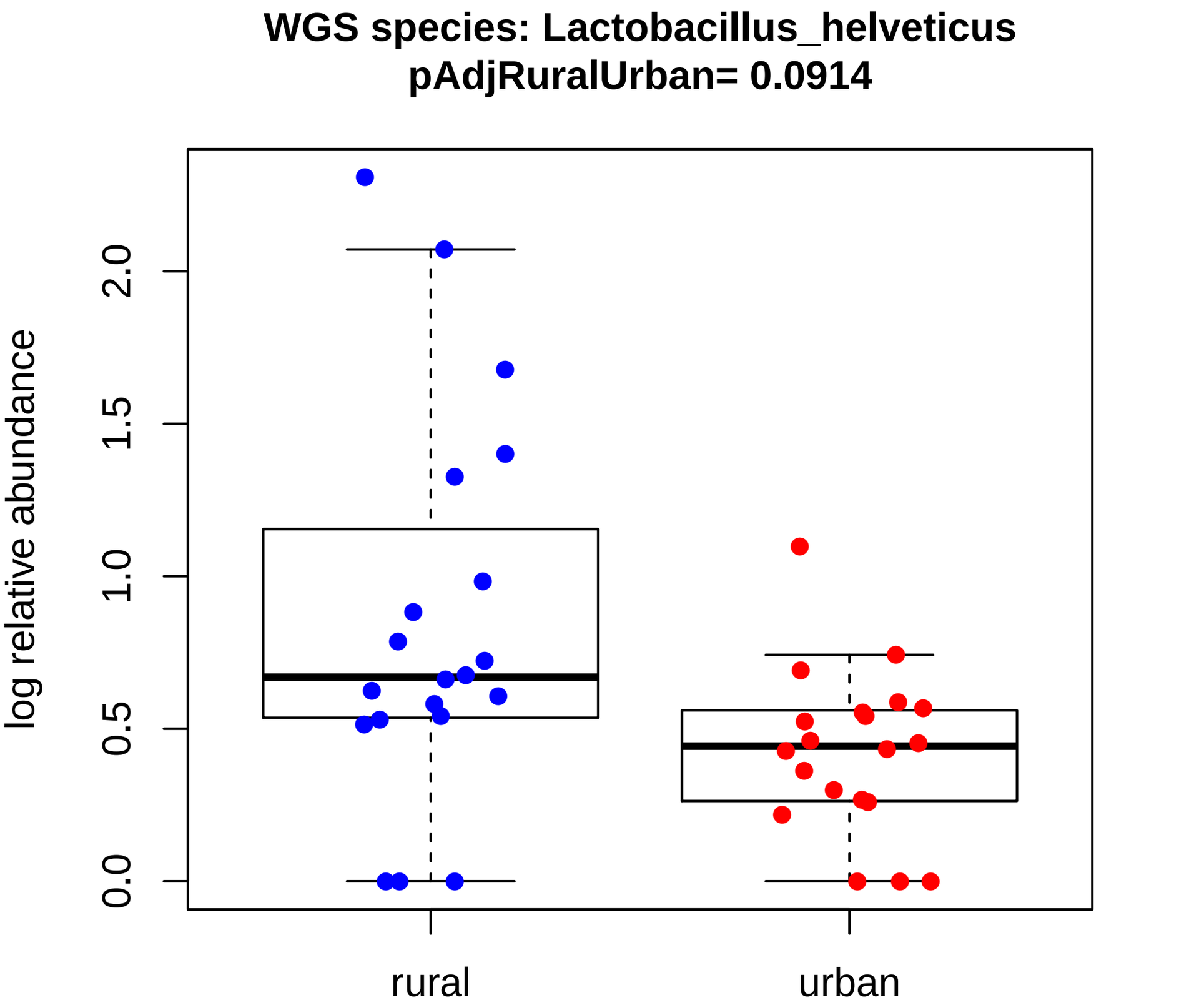

WGS species: Lactococcus_lactis
pAdjRuralUrban= 0.0914
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

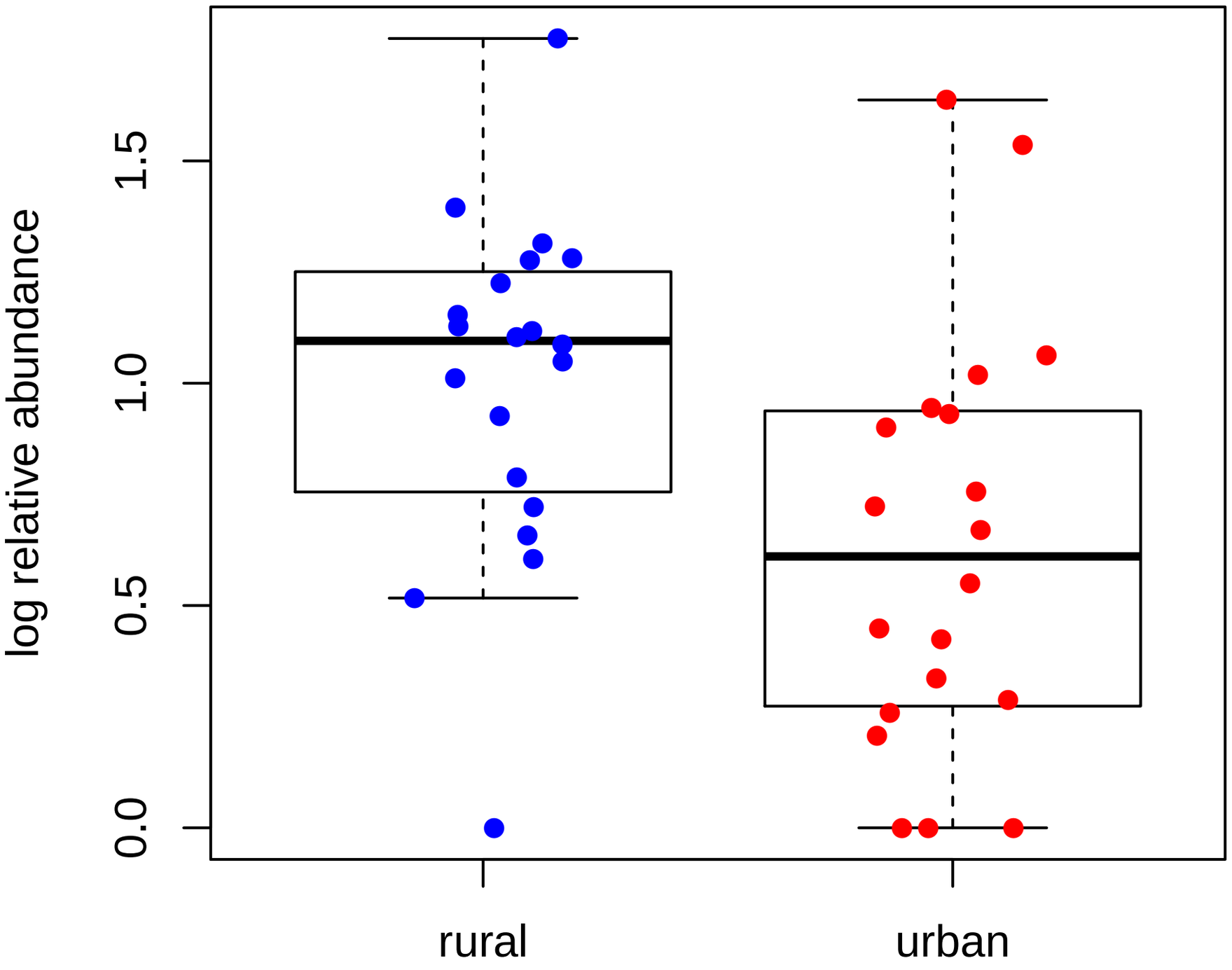

WGS species: Clostridiales_genomosp._BVAB3
pAdjRuralUrban= 0.0914
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

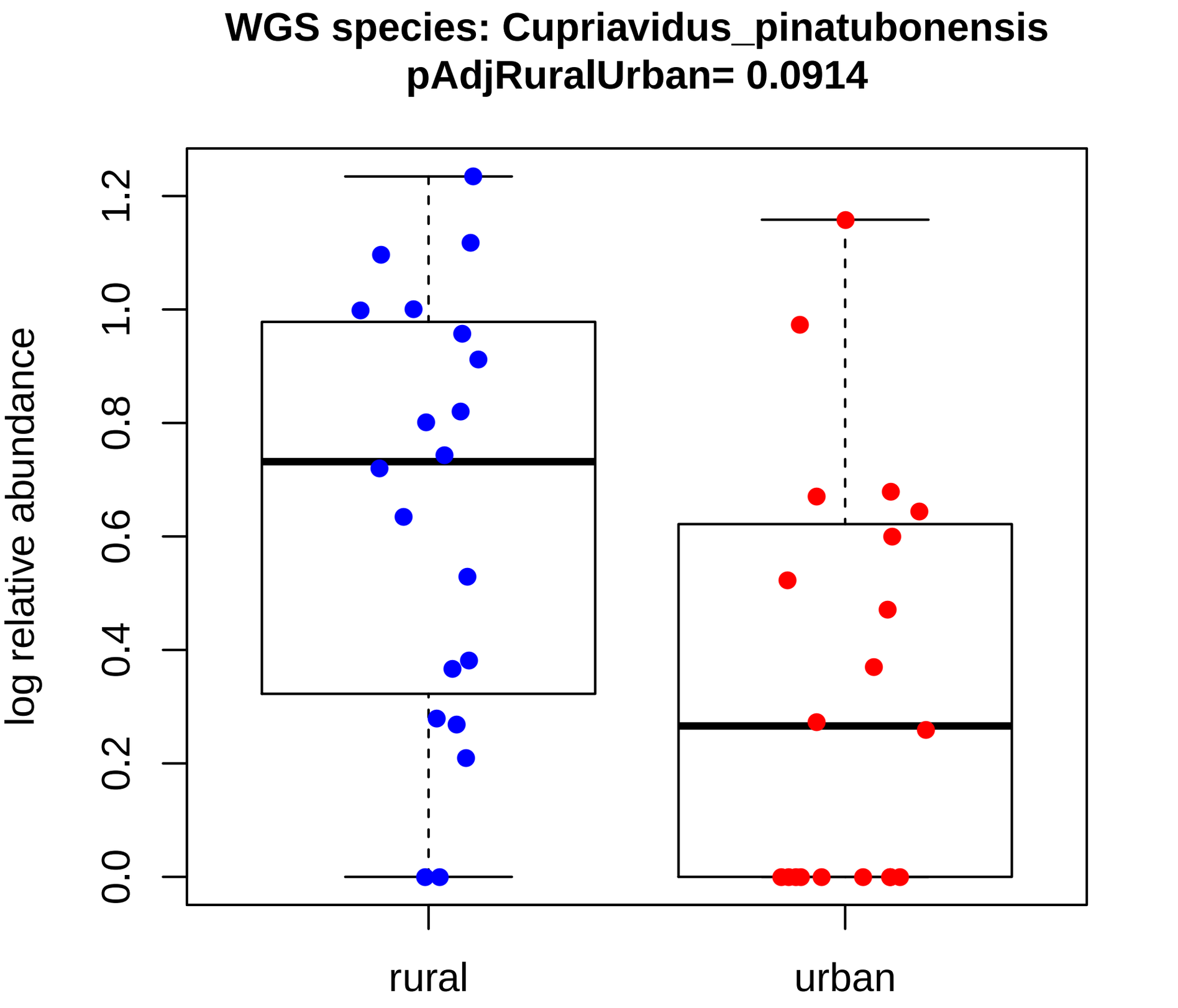

WGS species: Clostridium_autoethanogenum
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

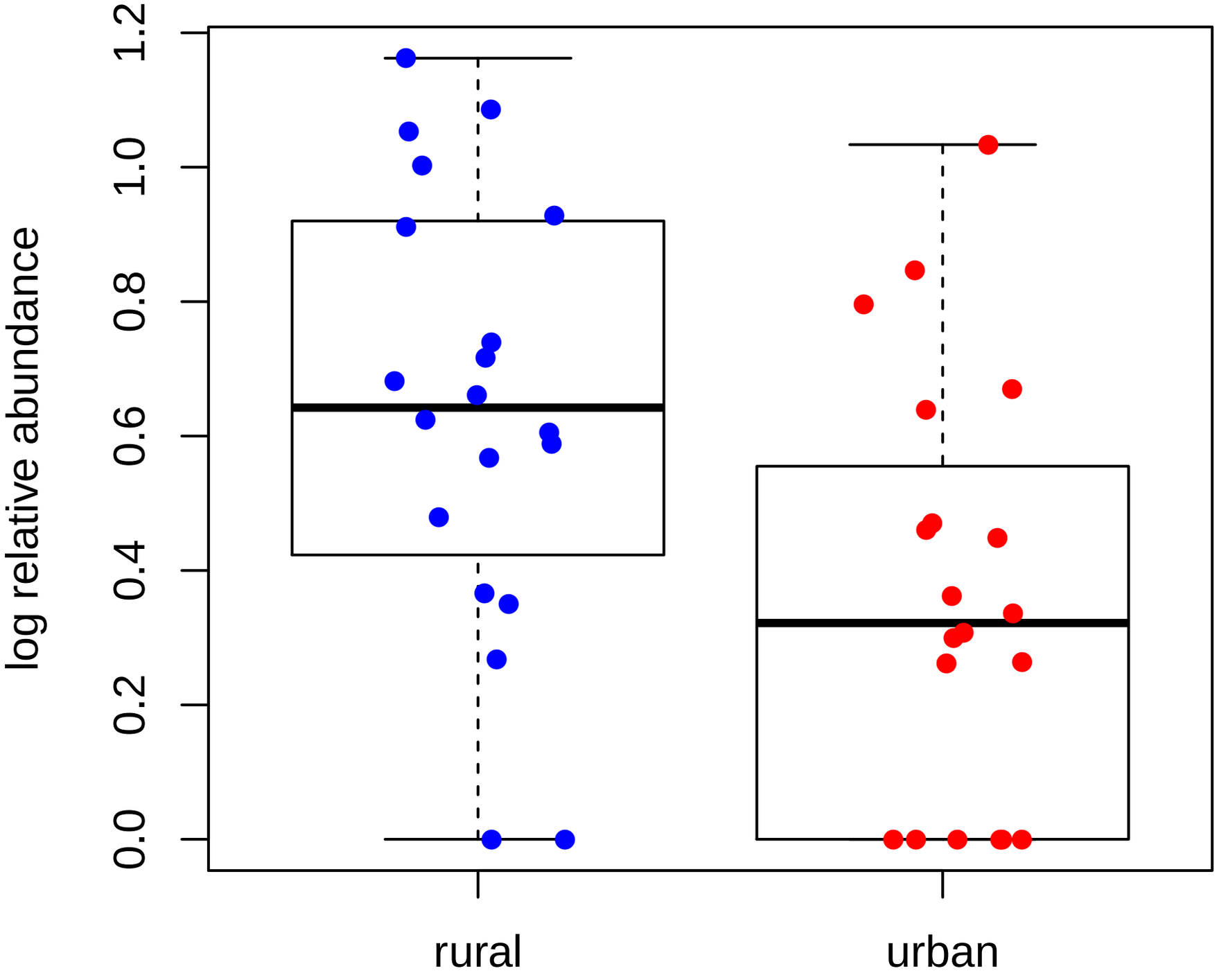

WGS species: Cardinium_endosymbiont_of_Encarsia_pergand
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

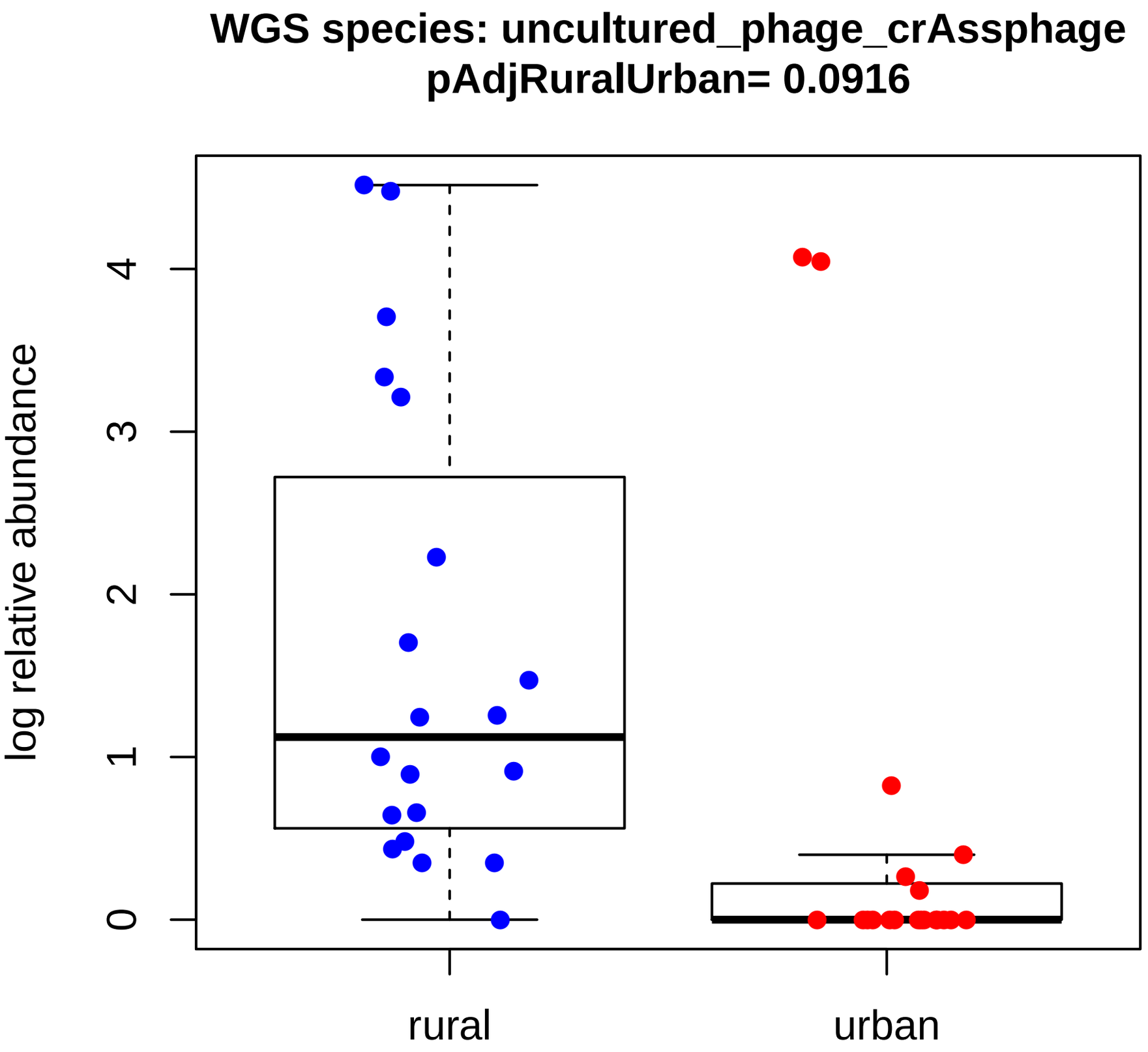

WGS species: Candidatus_Chloracidobacterium_thermophilu
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

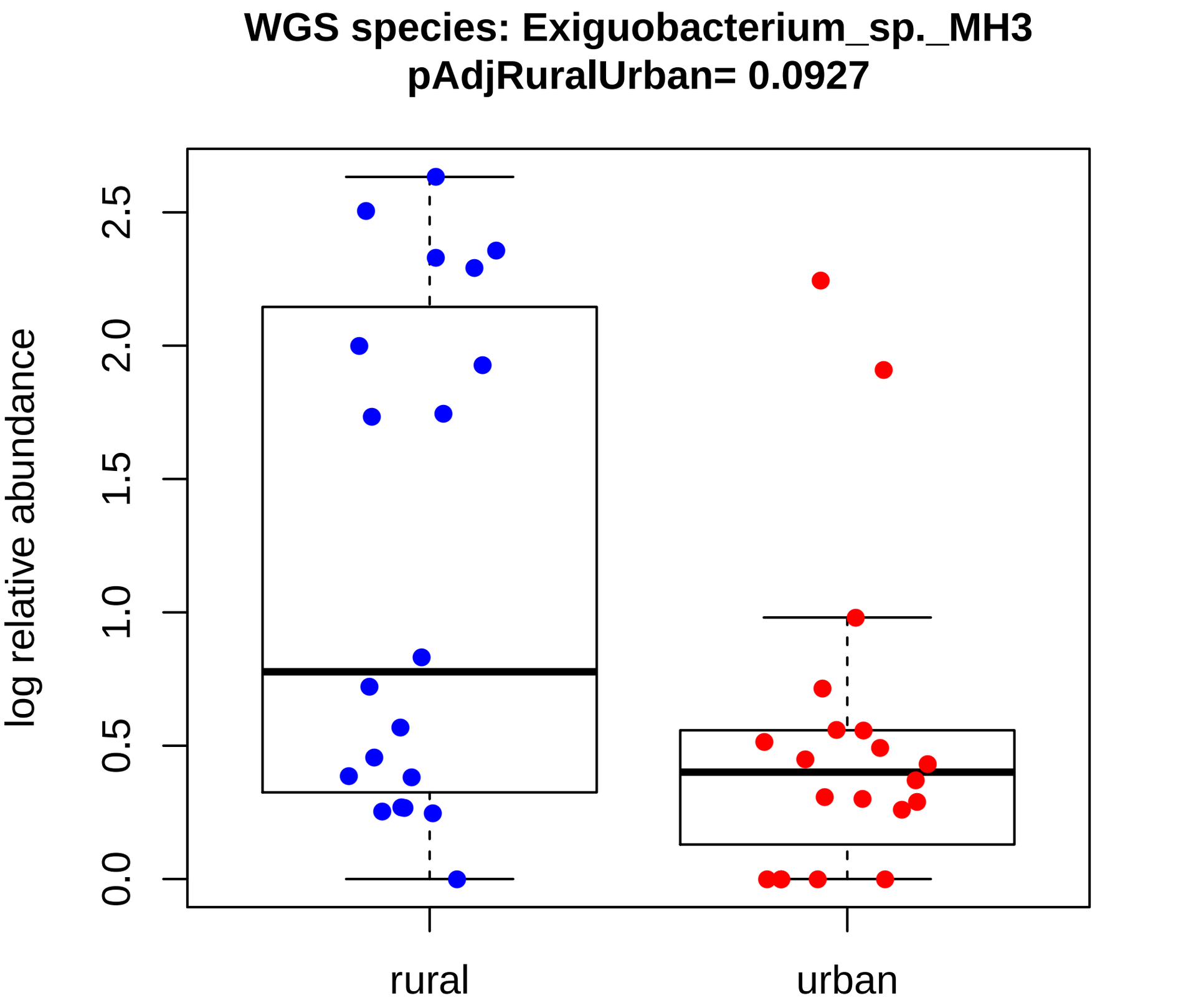

WGS species: Lactobacillus_helveticus
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

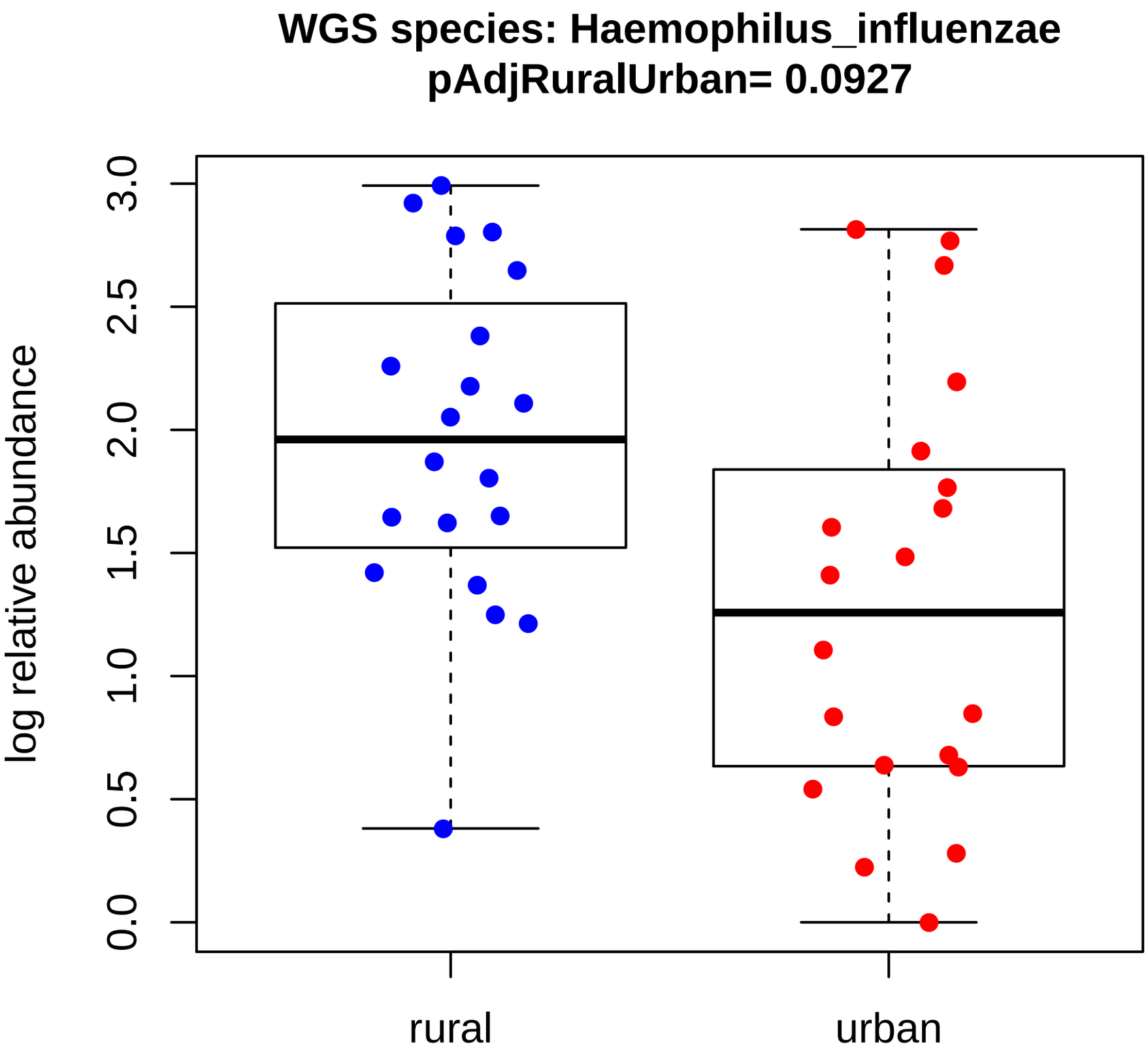

WGS species: Pelotomaculum_thermopropionicum
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

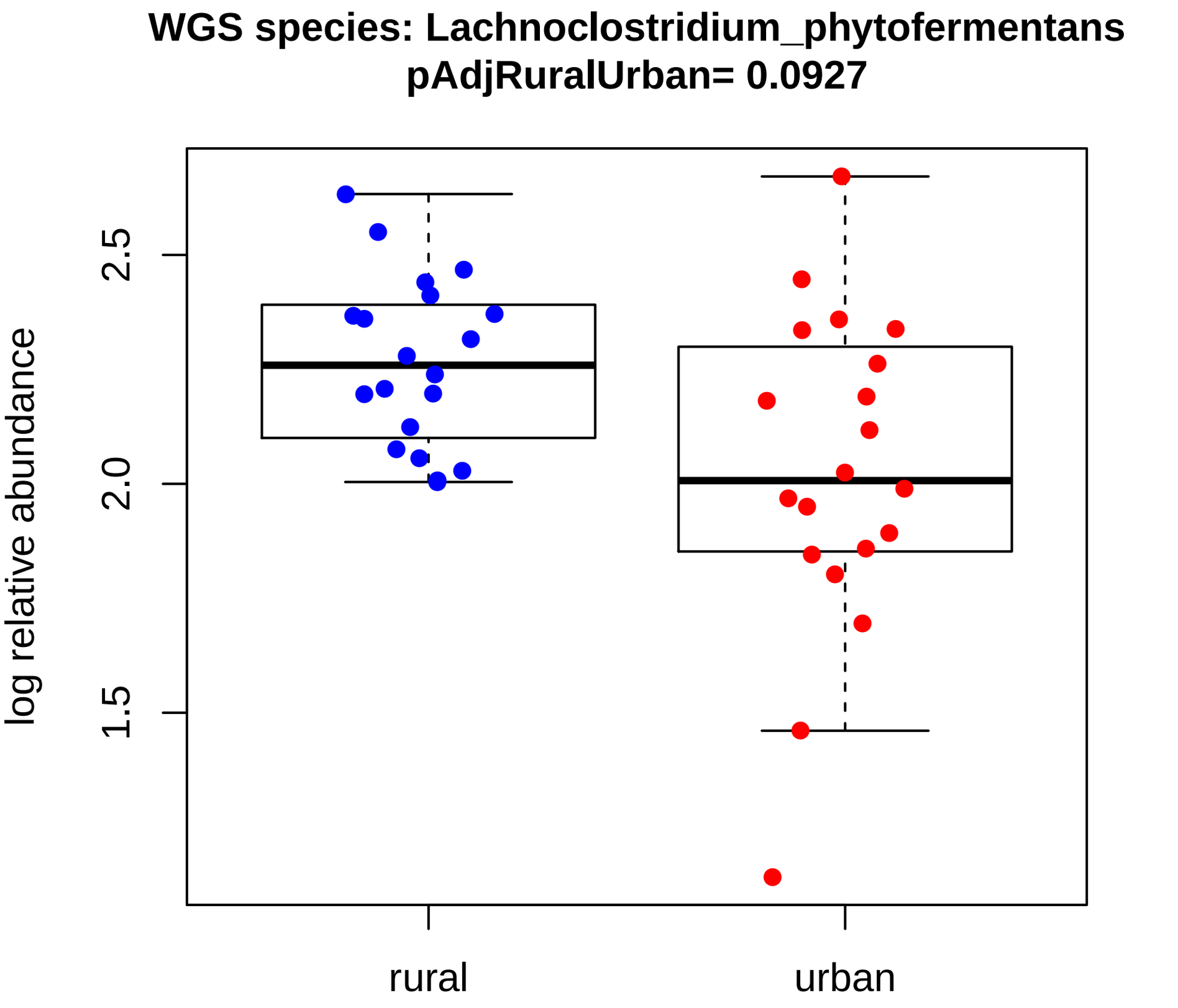

WGS species: Cupriavidus_pinatubonensis
pAdjRuralUrban= 0.0914
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

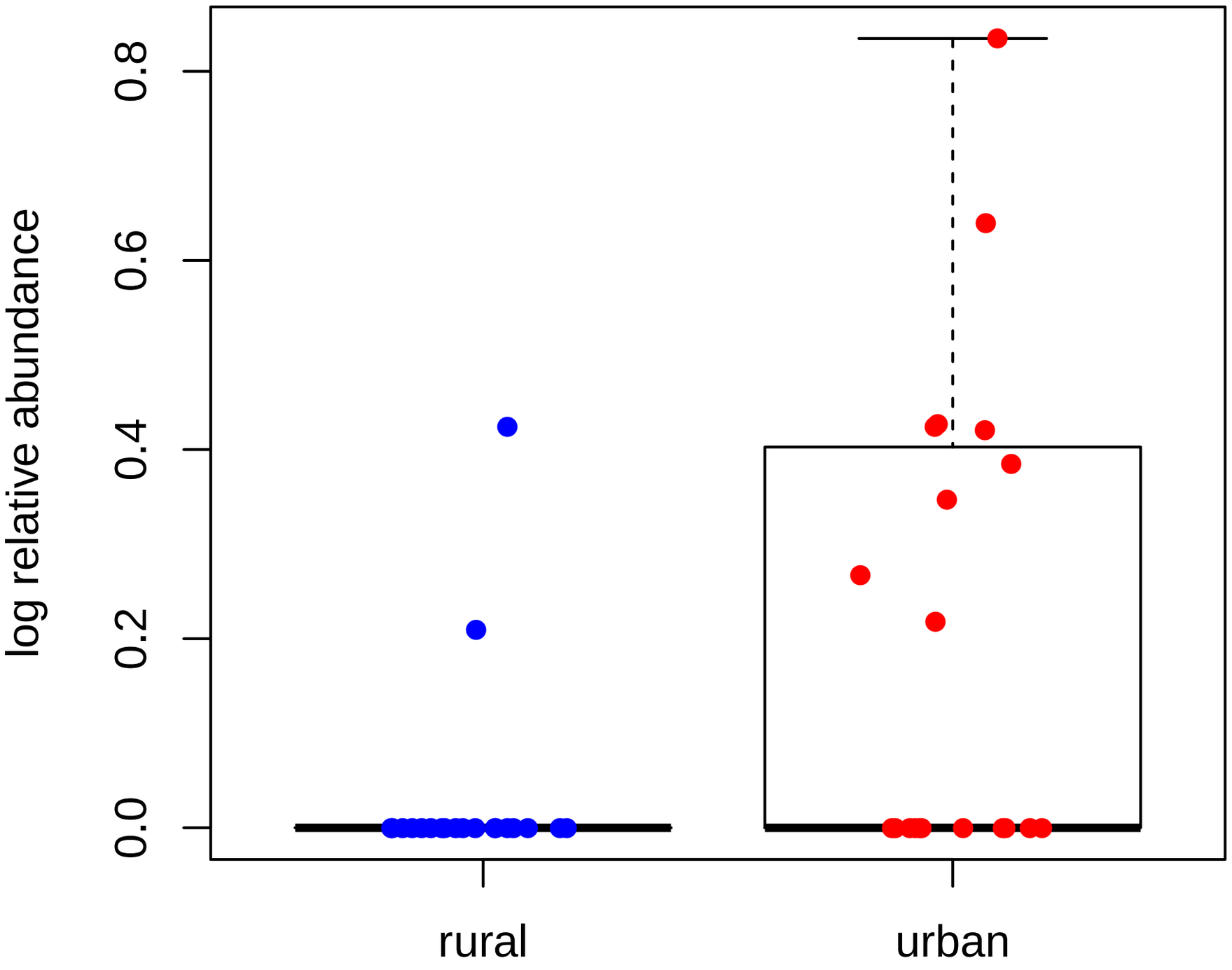

WGS species: Ruegeria_pomeroyi
pAdjRuralUrban= 0.0916
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

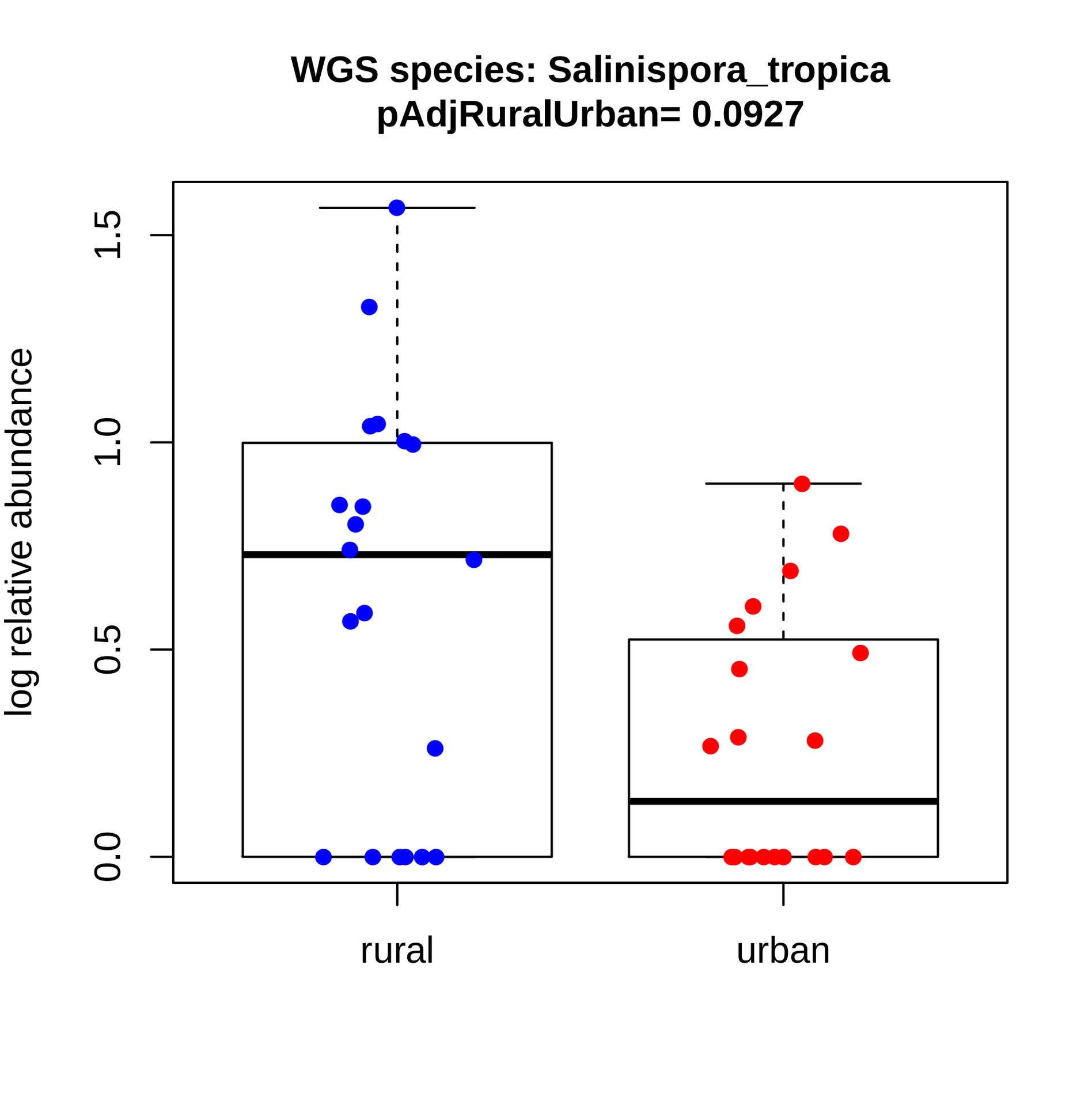

WGS species: uncultured_phage_crAssphage
pAdjRuralUrban= 0.0916
log relative abundance
0
1
2
3
4
rural
urban

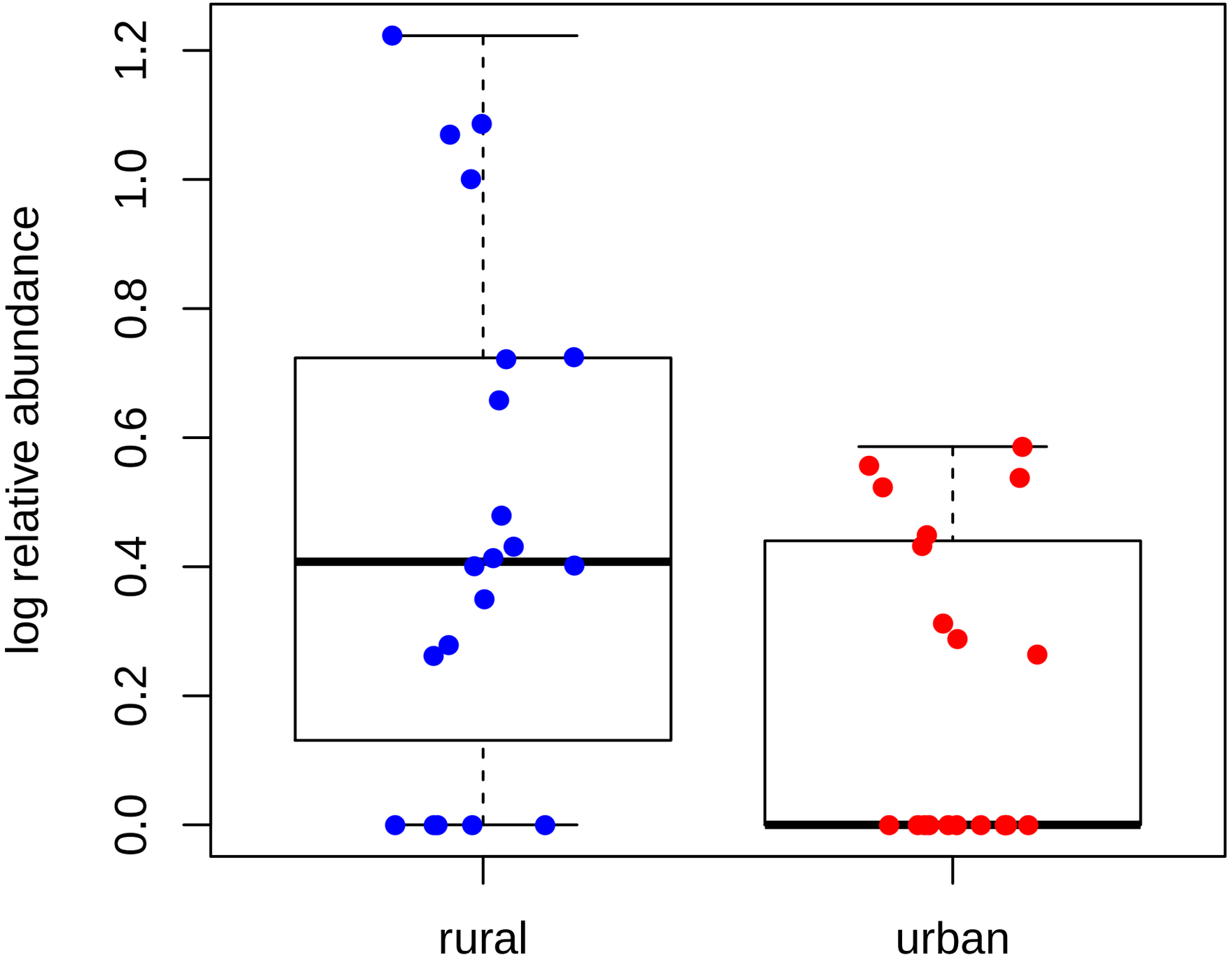

WGS species: Exiguobacterium_sp._MH3
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

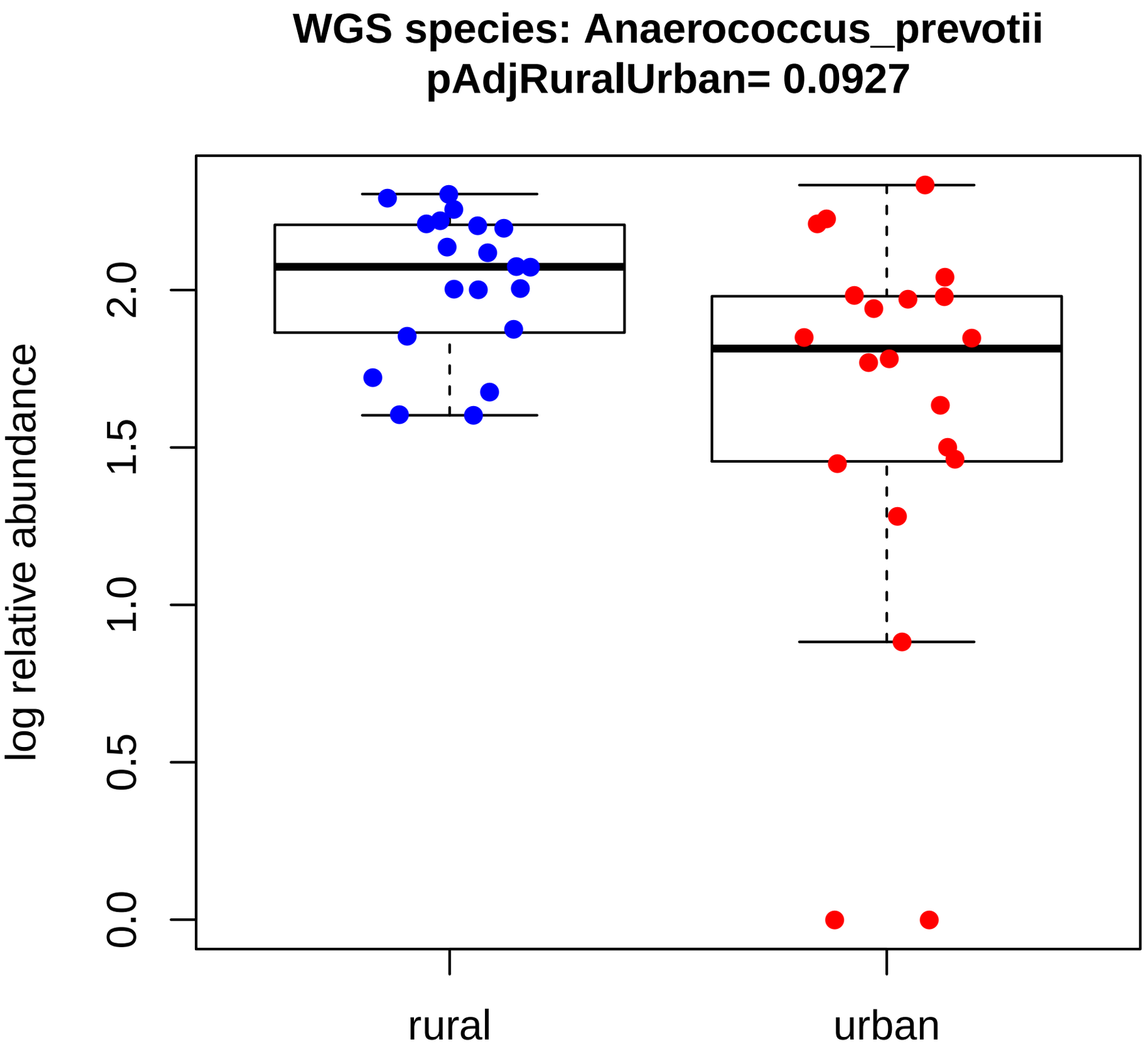

WGS species: Haemophilus_influenzae
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

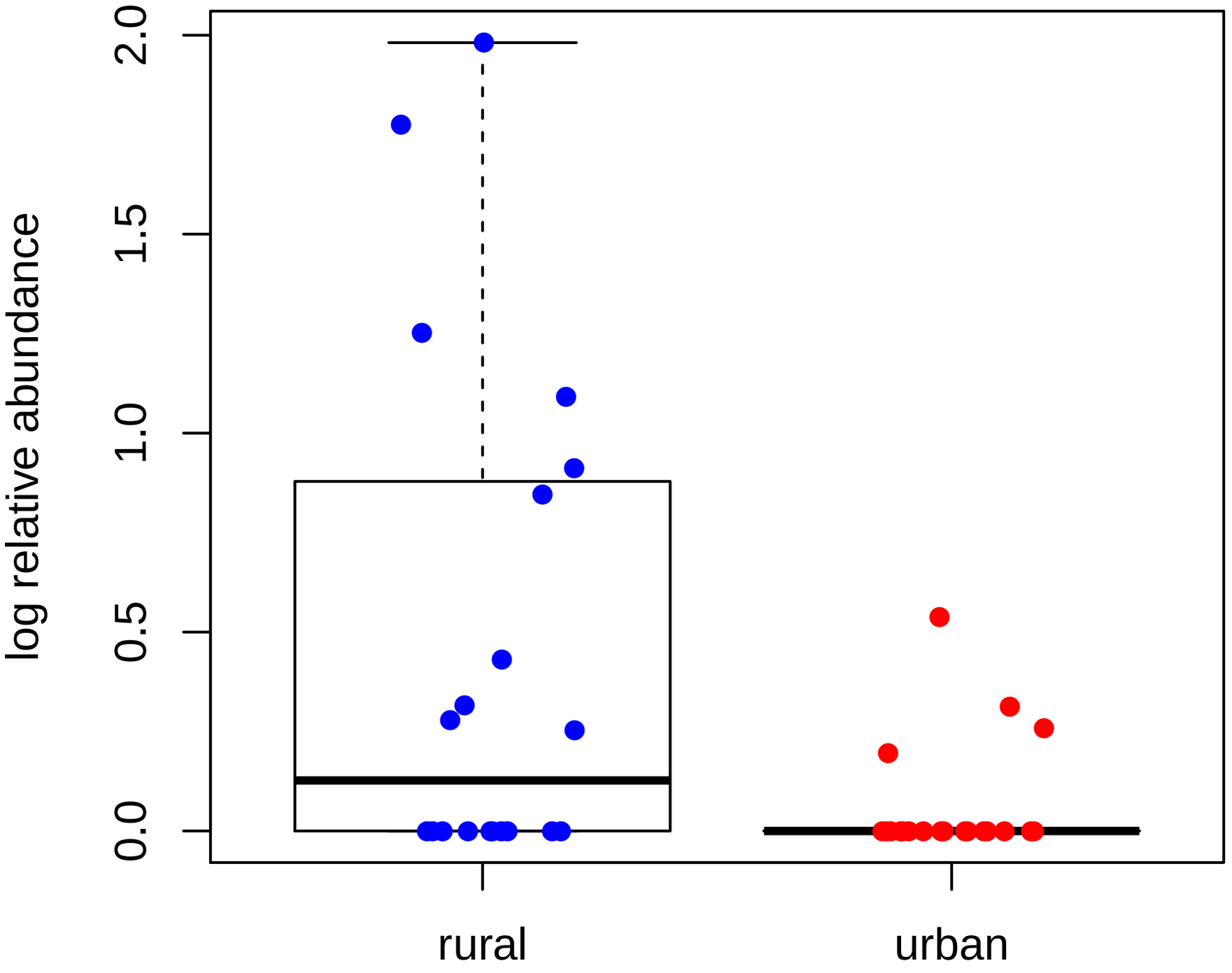

WGS species: Lachnoclostridium_phytofermentans
pAdjRuralUrban= 0.0927
log relative abundance
2.5
2.0
1.5
rural
urban

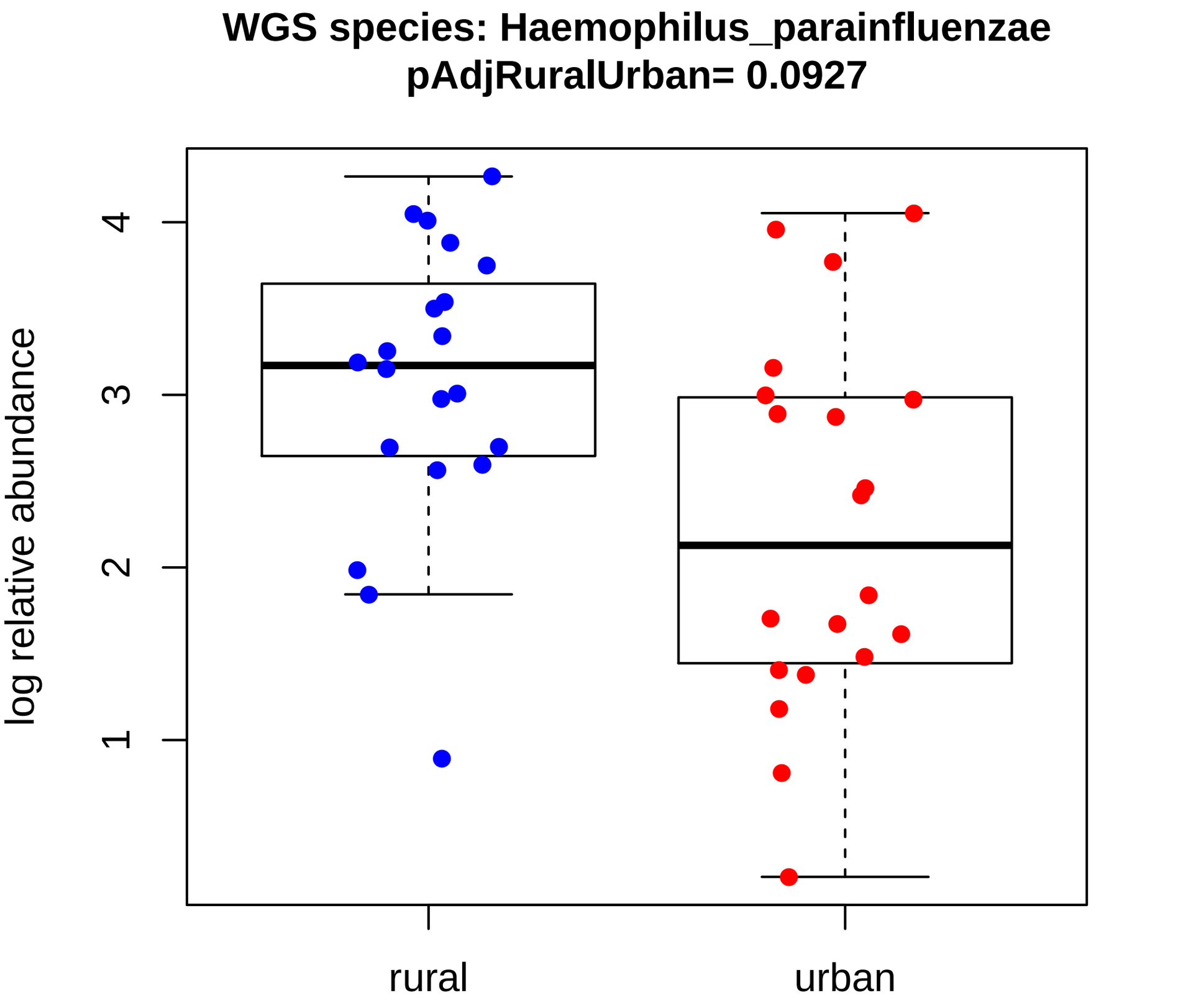

WGS species: Methanocella_conradii
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

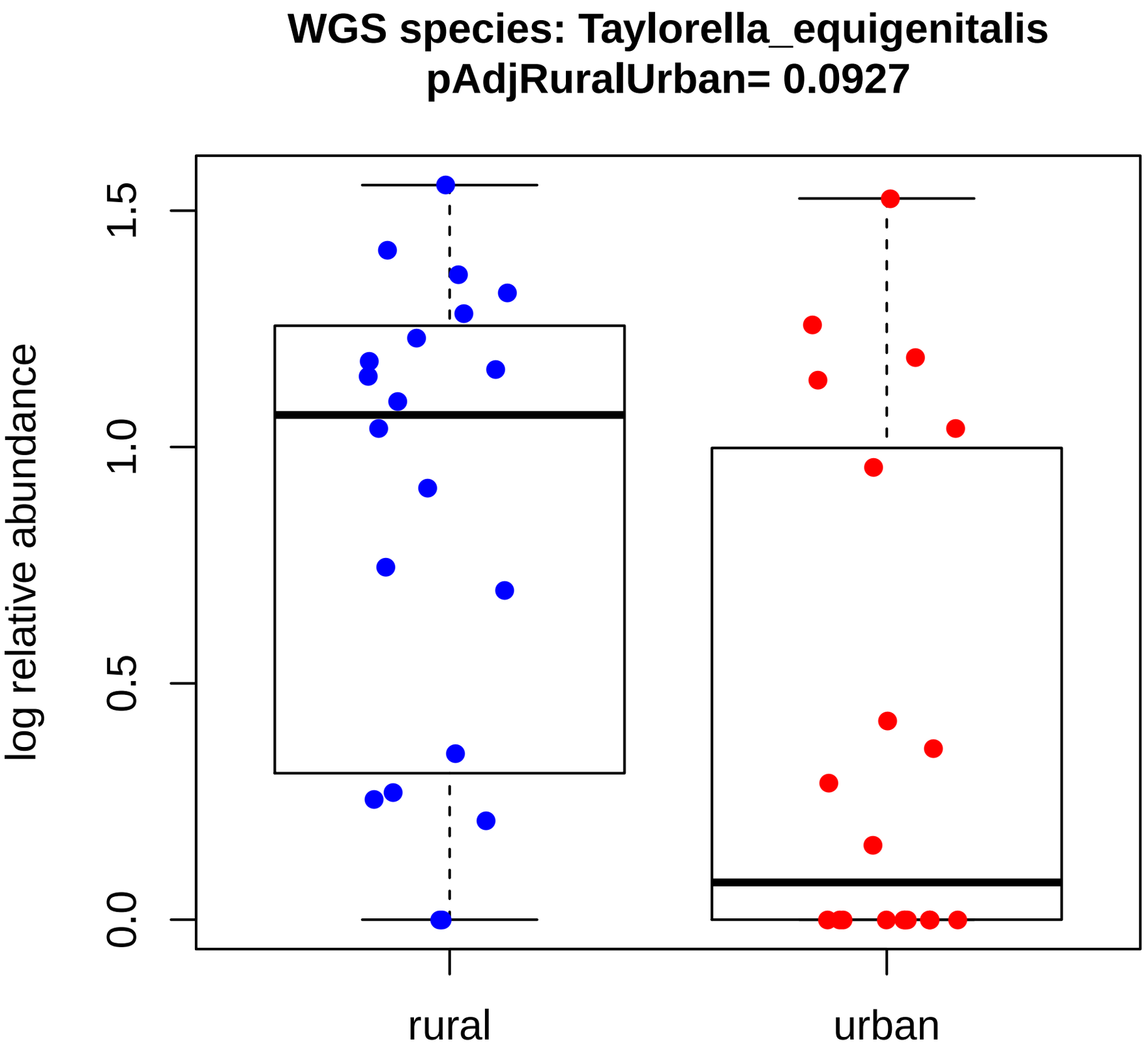

WGS species: Salinispora_tropica
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

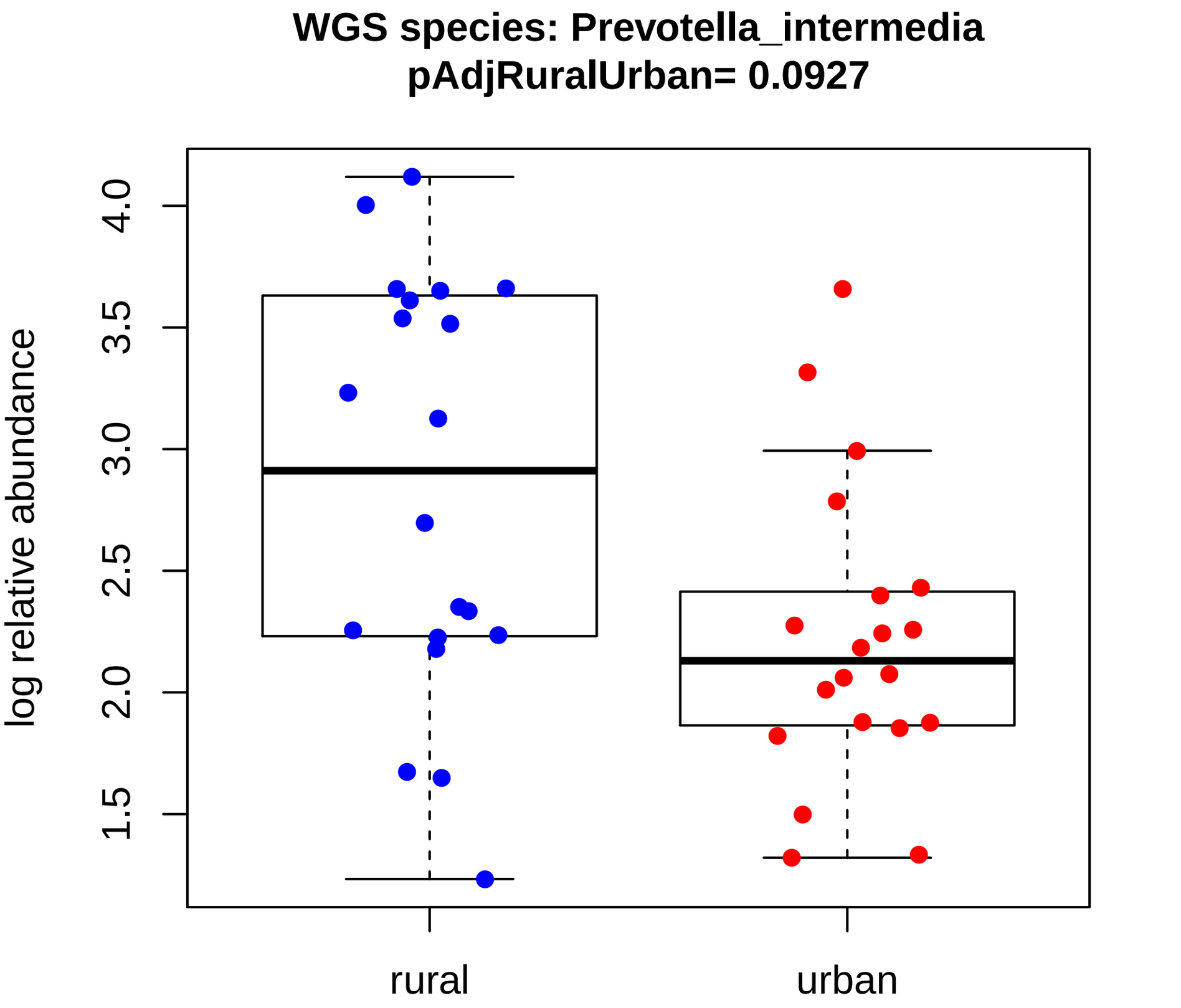

WGS species: Mesoplasma_florum
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

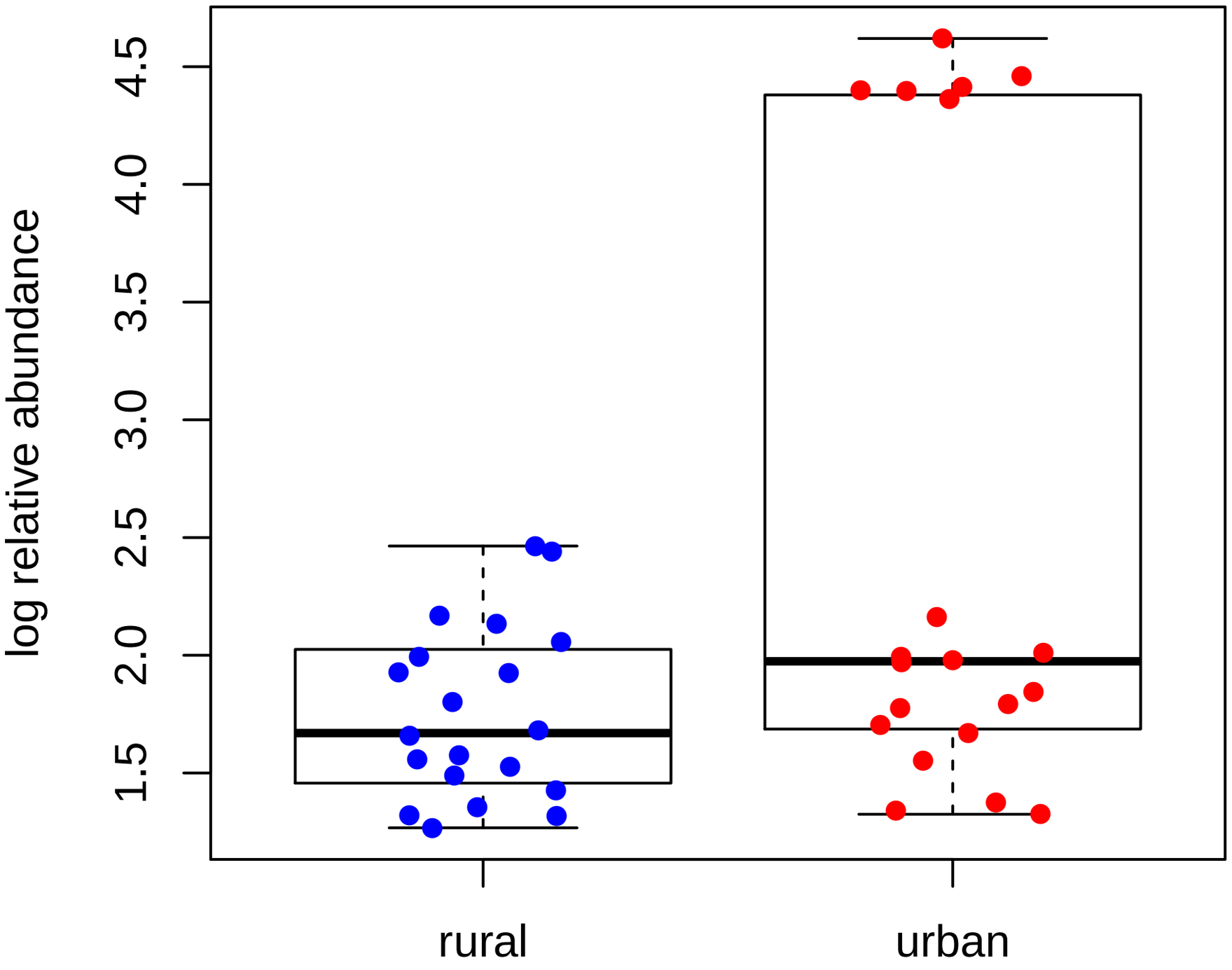

WGS species: Anaerococcus_prevotii
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

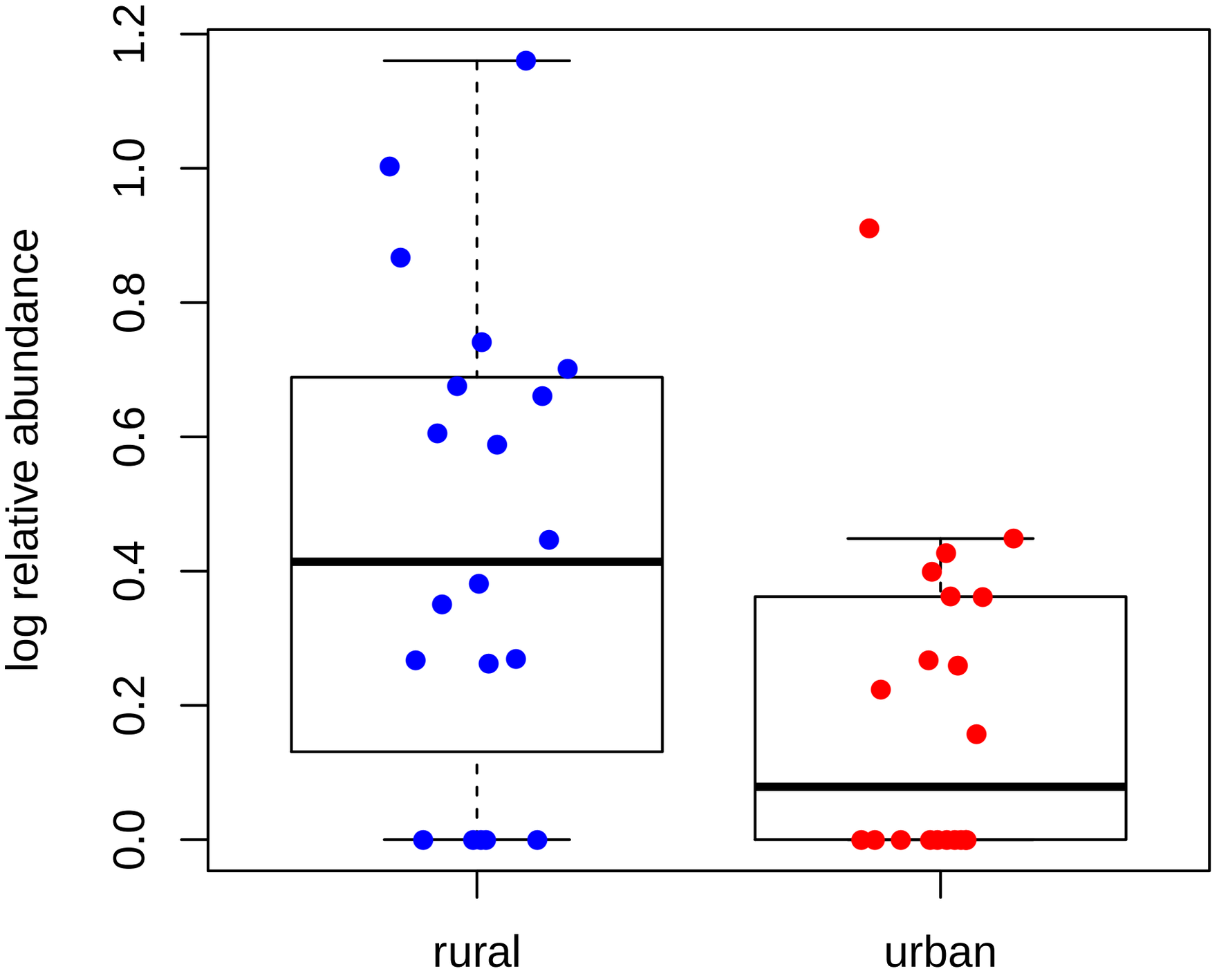

WGS species: Methylophaga_frappieri
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

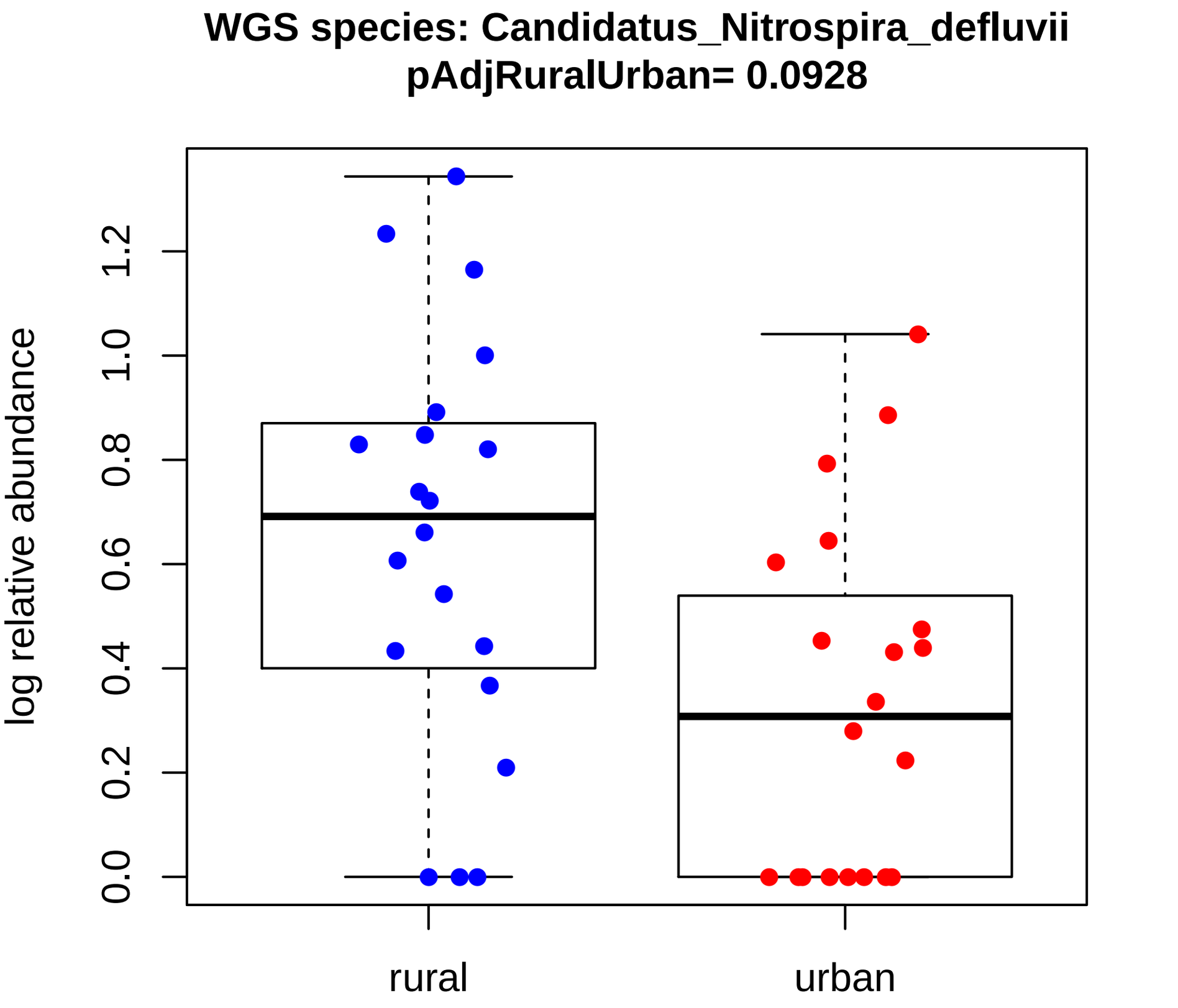

WGS species: Haemophilus_parainfluenzae
pAdjRuralUrban= 0.0927
log relative abundance
1
2
3
4
rural
urban

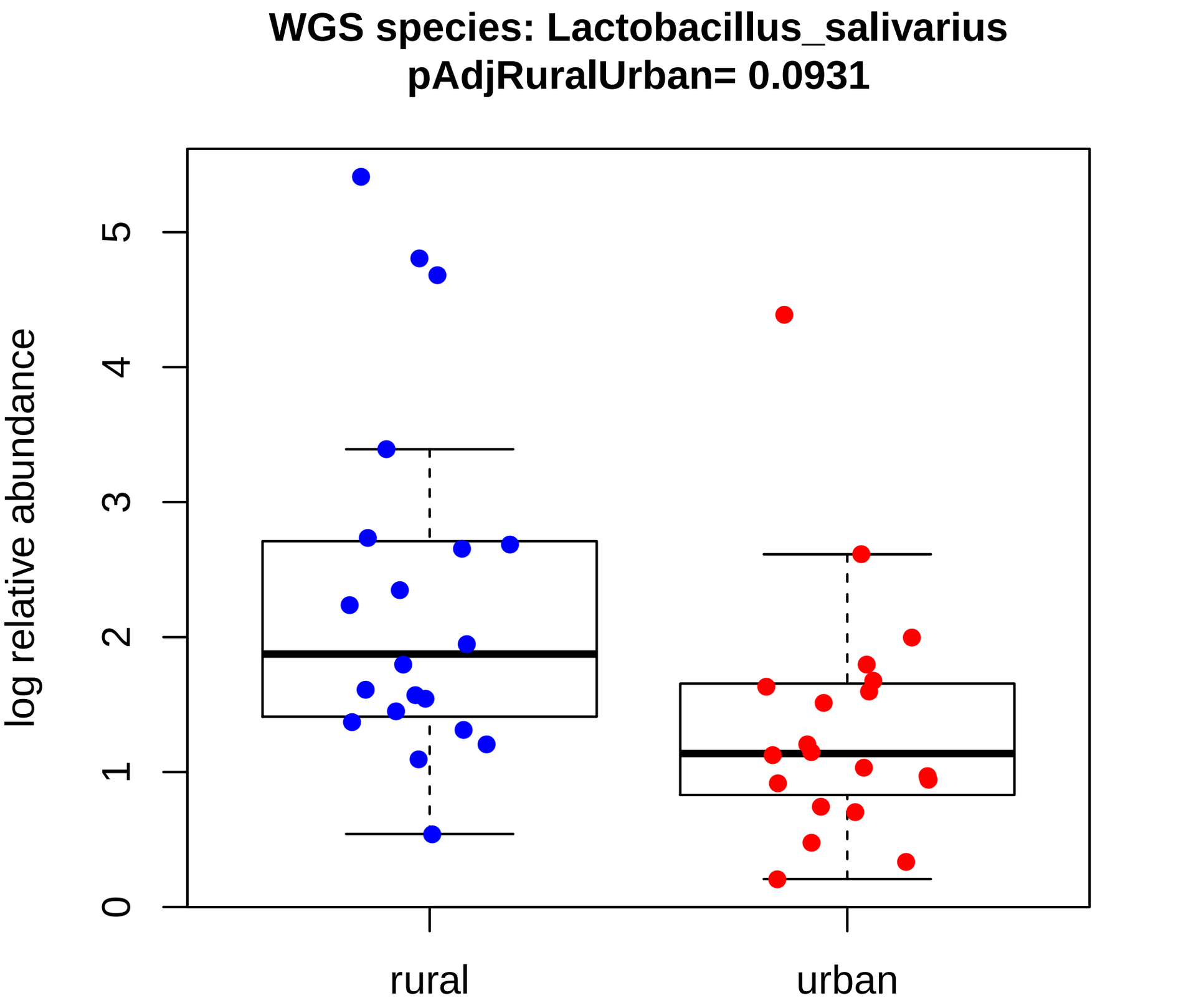

WGS species: Taylorella_equigenitalis
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

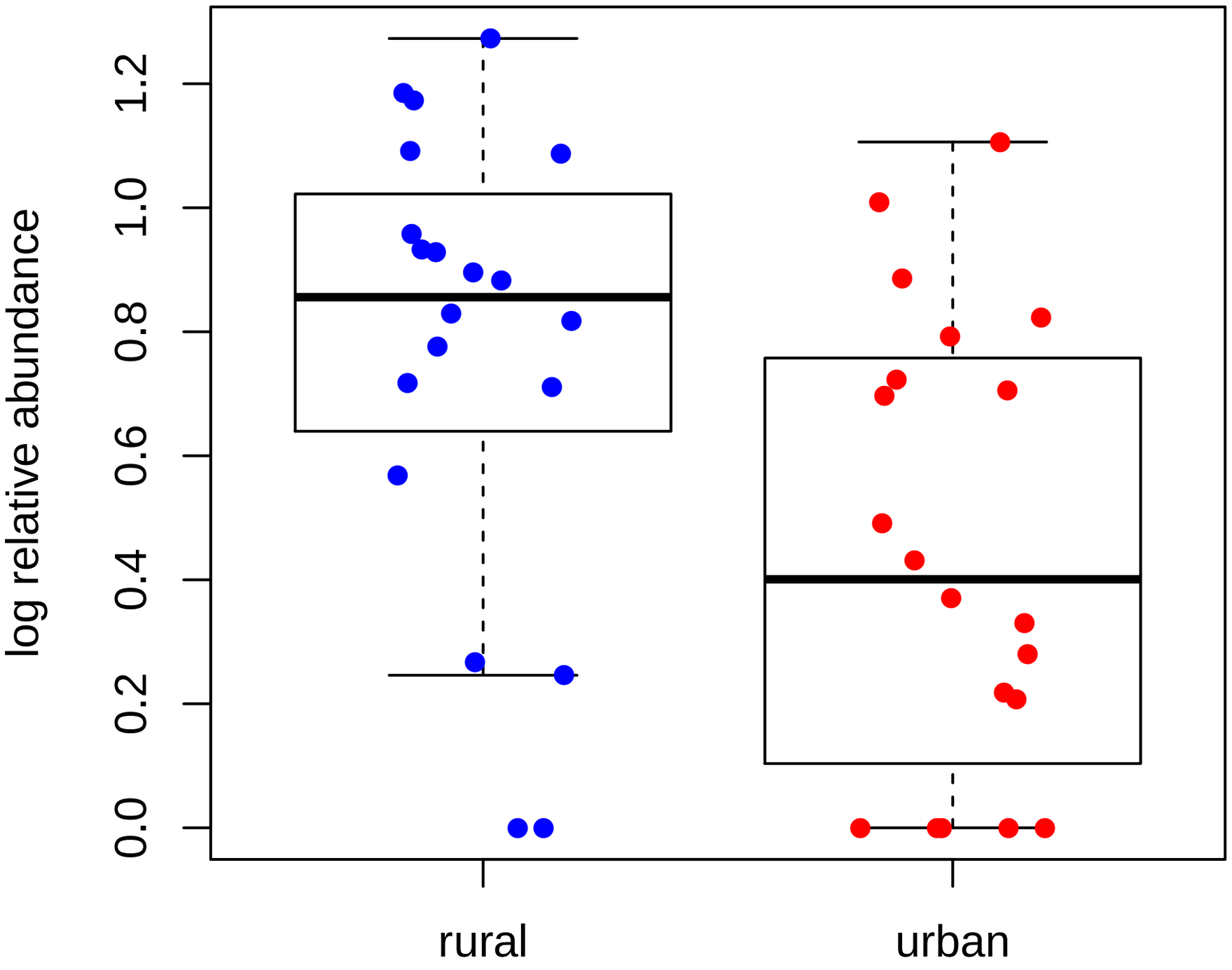

WGS species: Prevotella_intermedia
pAdjRuralUrban= 0.0927
log relative abundance
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

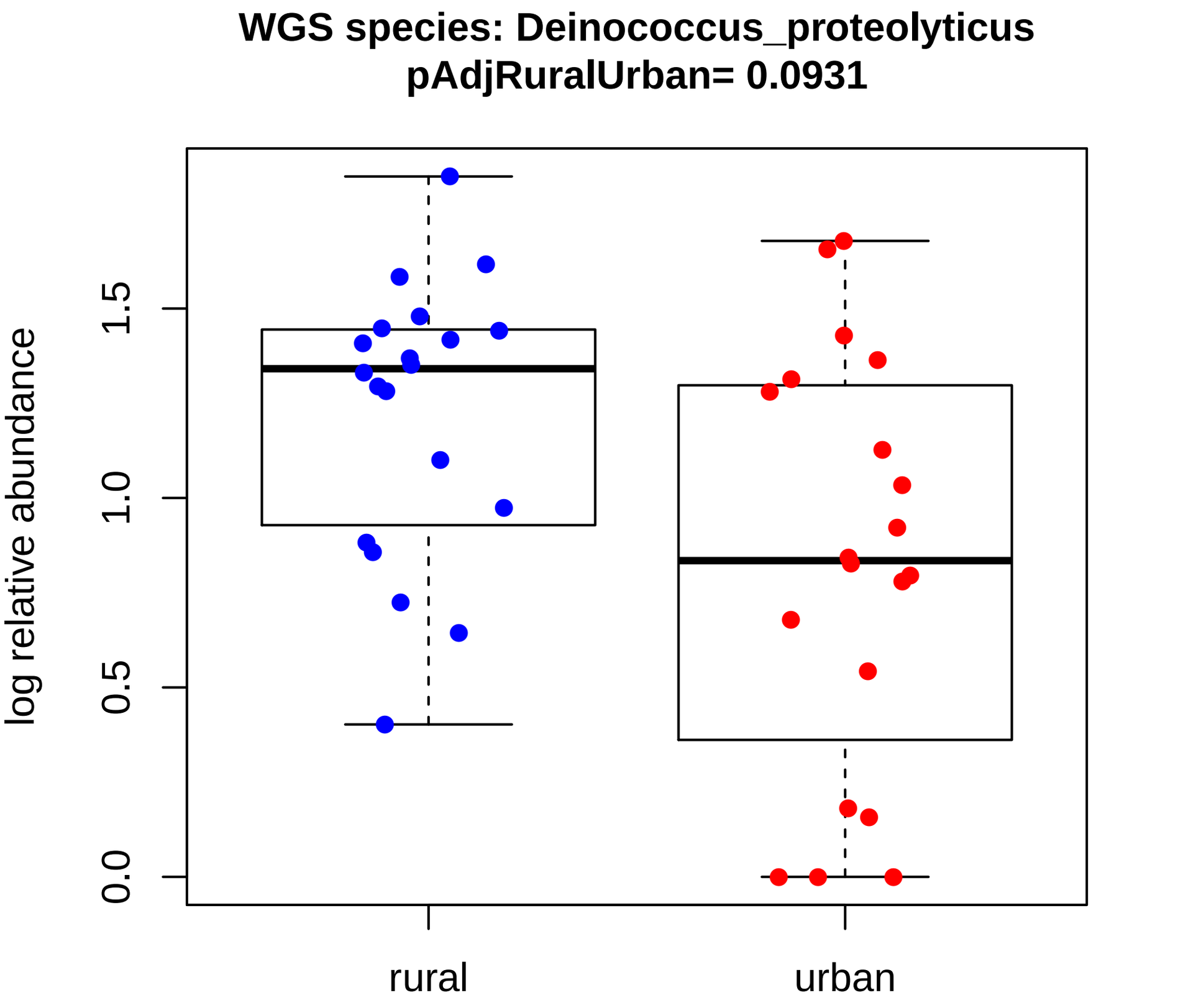

WGS species: Alteromonas_macleodii
pAdjRuralUrban= 0.0927
log relative abundance
1.5
2.0
2.5
3.0
3.5
4.0
4.5
rural
urban

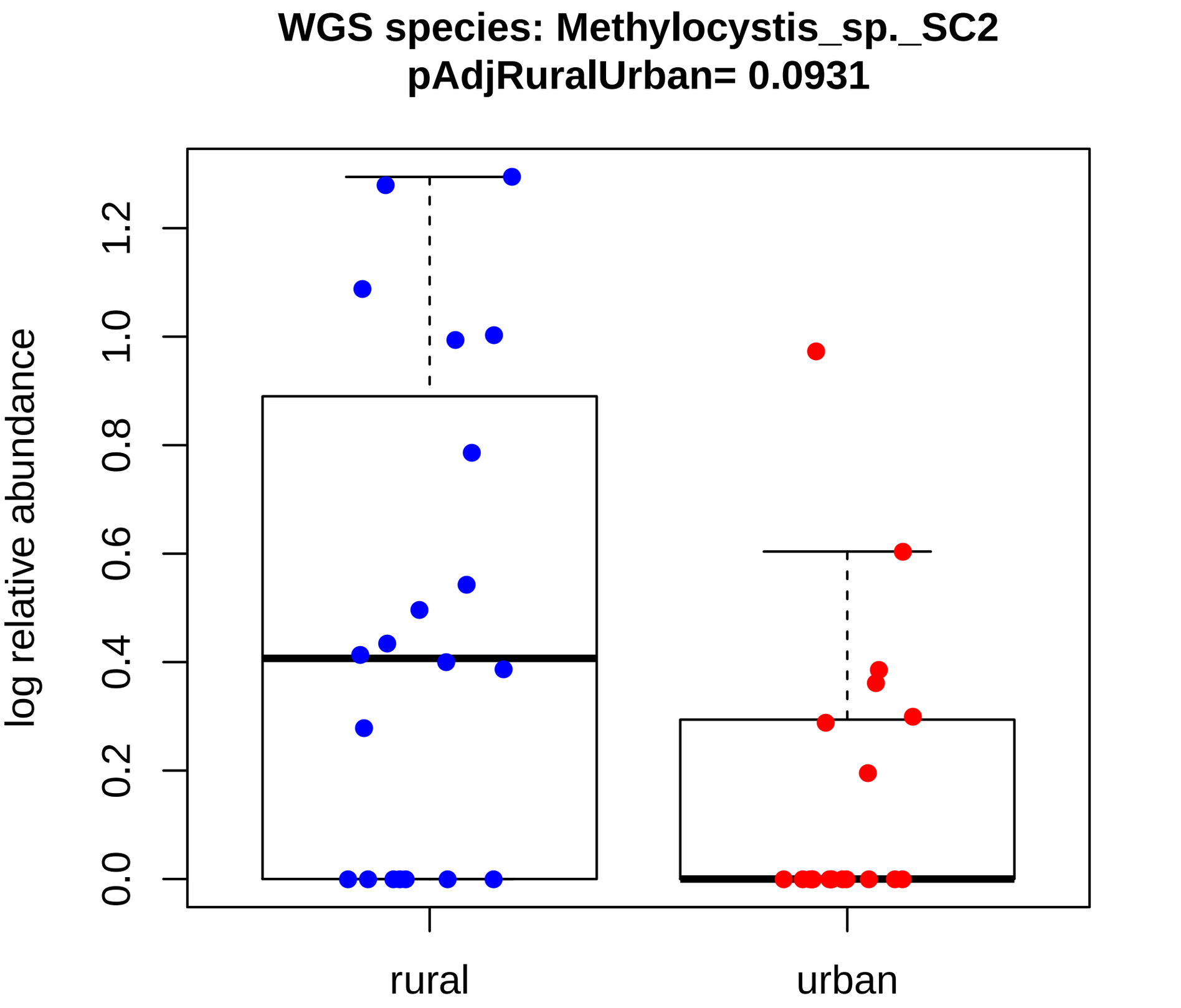

WGS species: Sphingobium_chlorophenolicum
pAdjRuralUrban= 0.0927
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

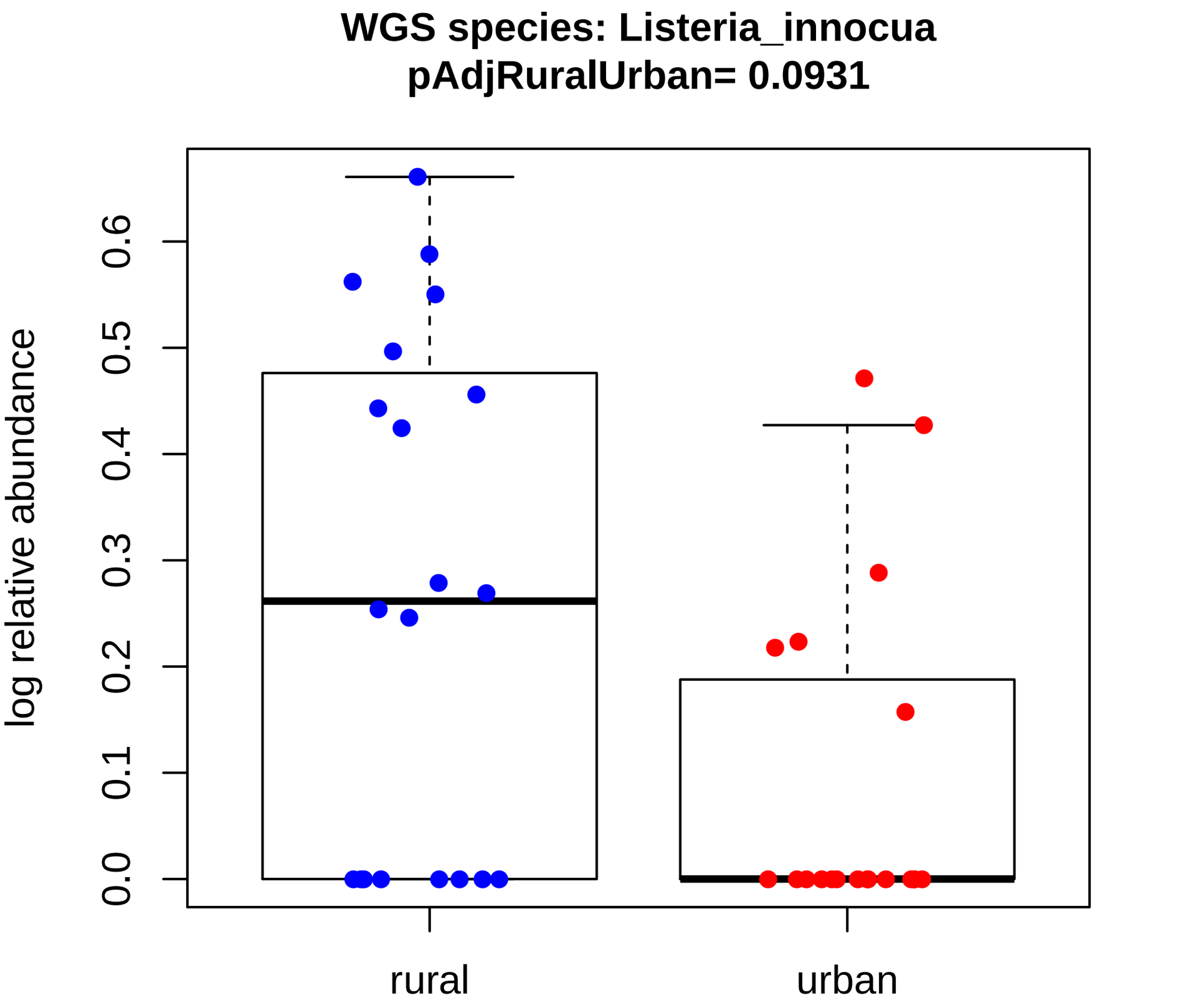

WGS species: Candidatus_Nitrospira_defluvii
pAdjRuralUrban= 0.0928
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

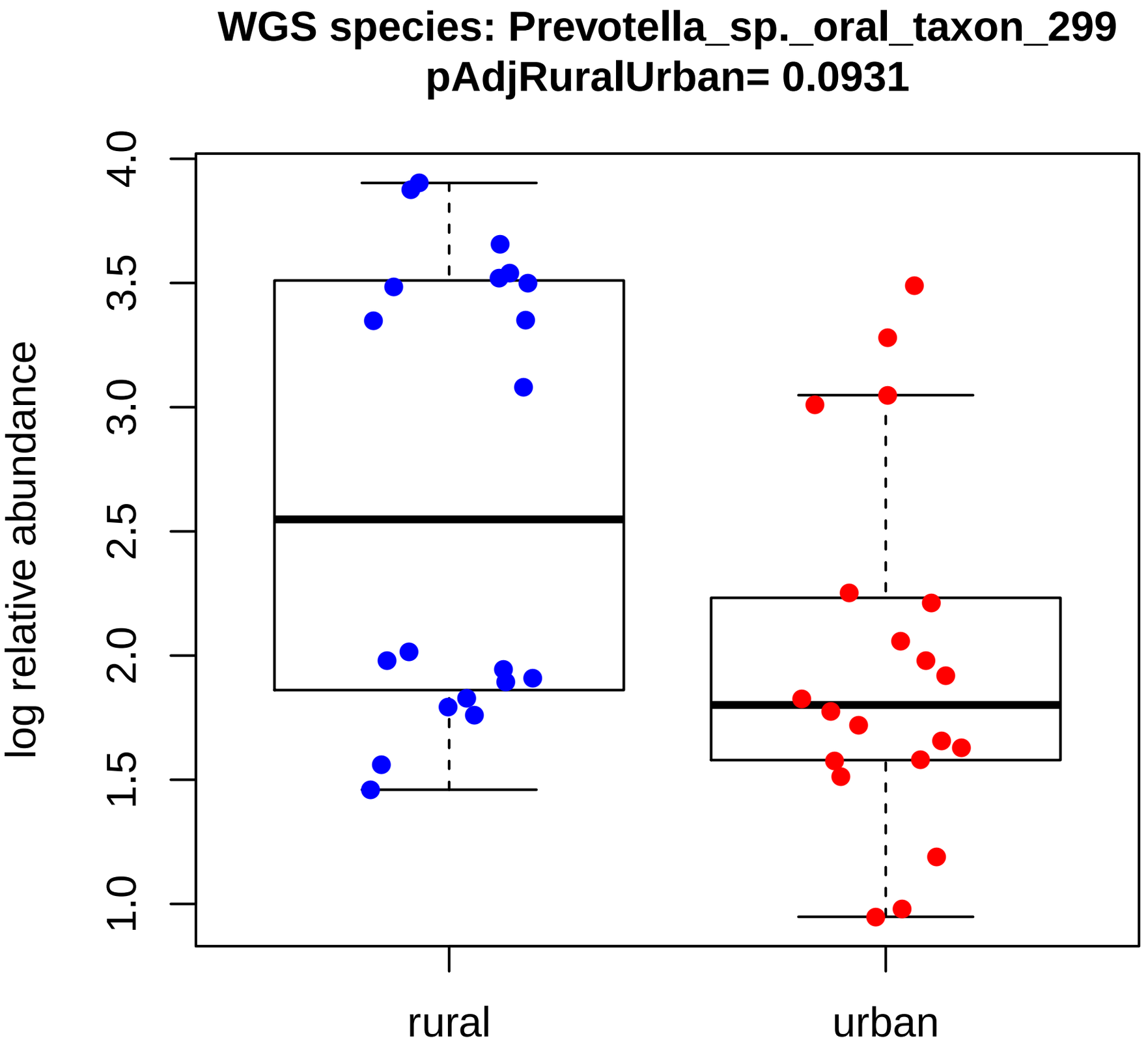

WGS species: Lactobacillus_salivarius
pAdjRuralUrban= 0.0931
log relative abundance
0
1
2
3
4
5
rural
urban

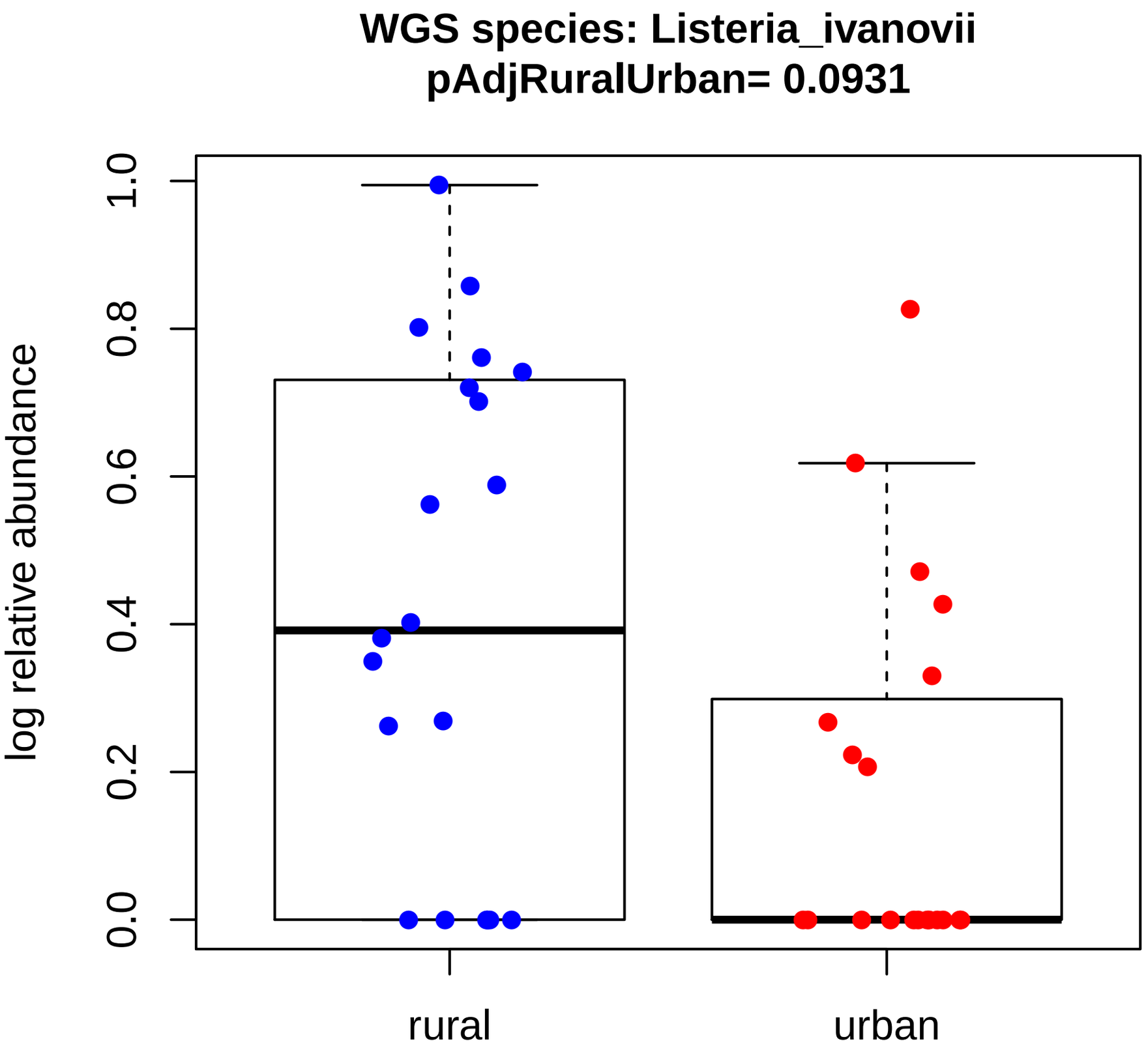

WGS species: Micrococcus_luteus
pAdjRuralUrban= 0.0931
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

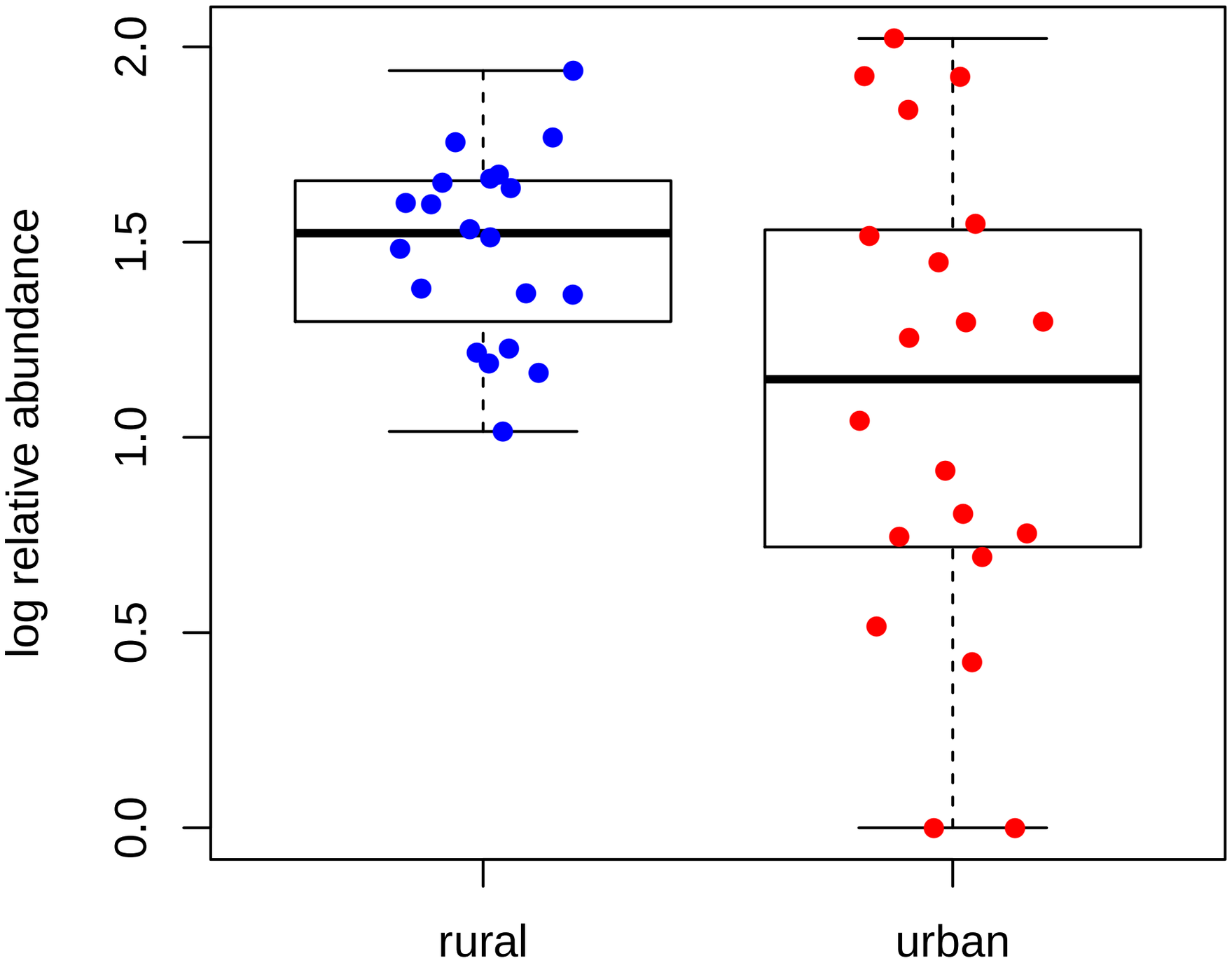

WGS species: Deinococcus_proteolyticus
pAdjRuralUrban= 0.0931
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

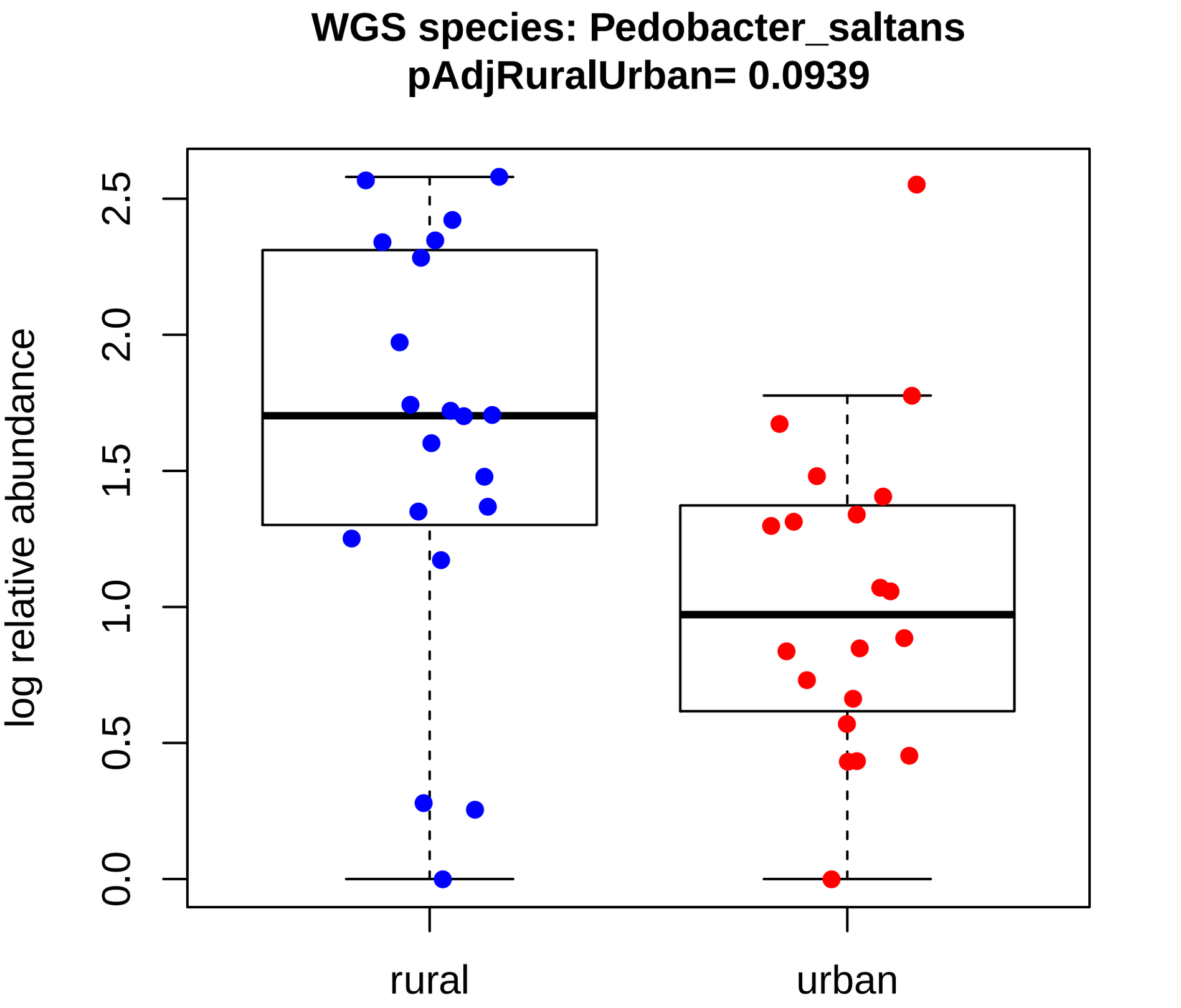

WGS species: Methylocystis_sp._SC2
pAdjRuralUrban= 0.0931
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

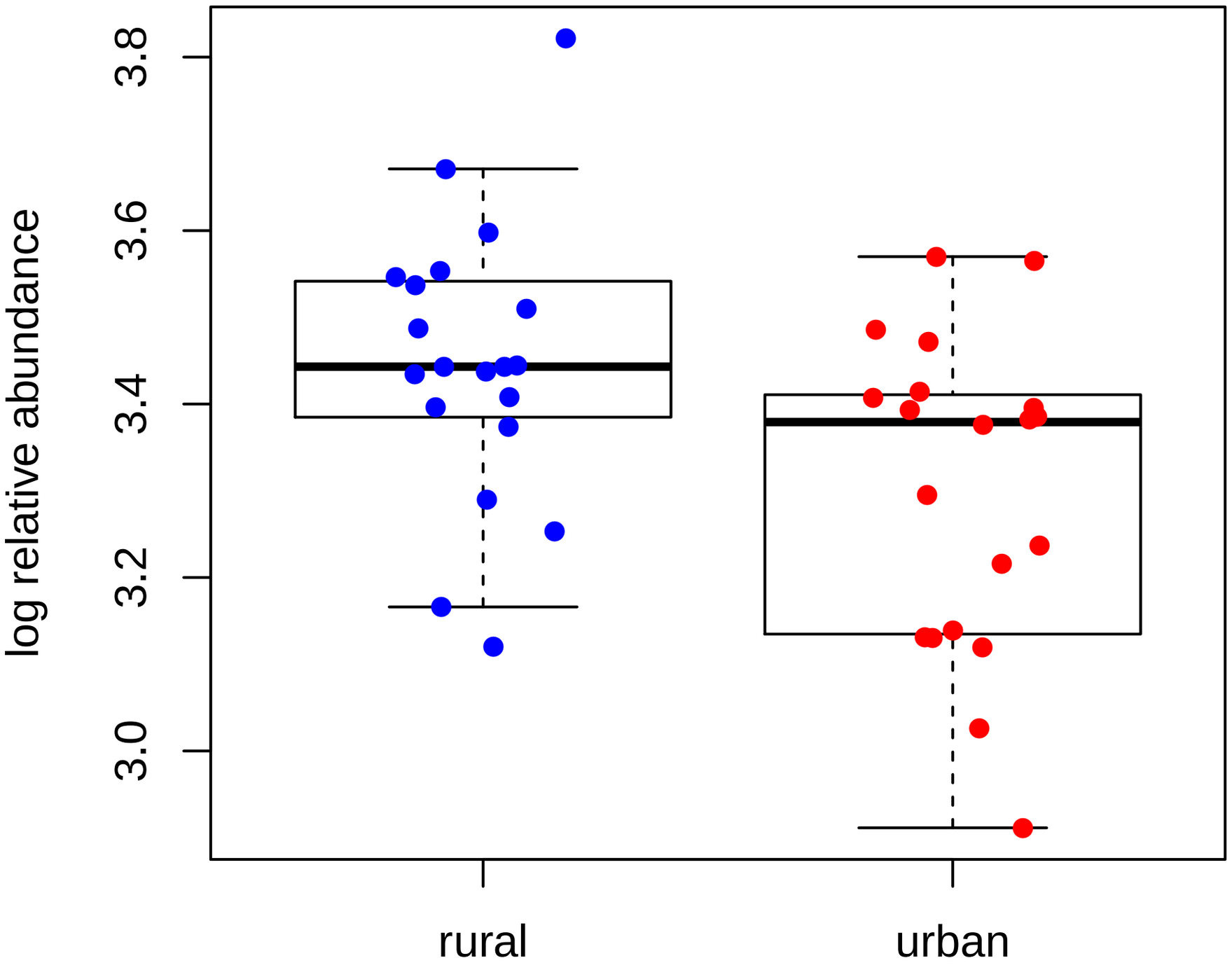

WGS species: Listeria_innocua
pAdjRuralUrban= 0.0931
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
rural
urban

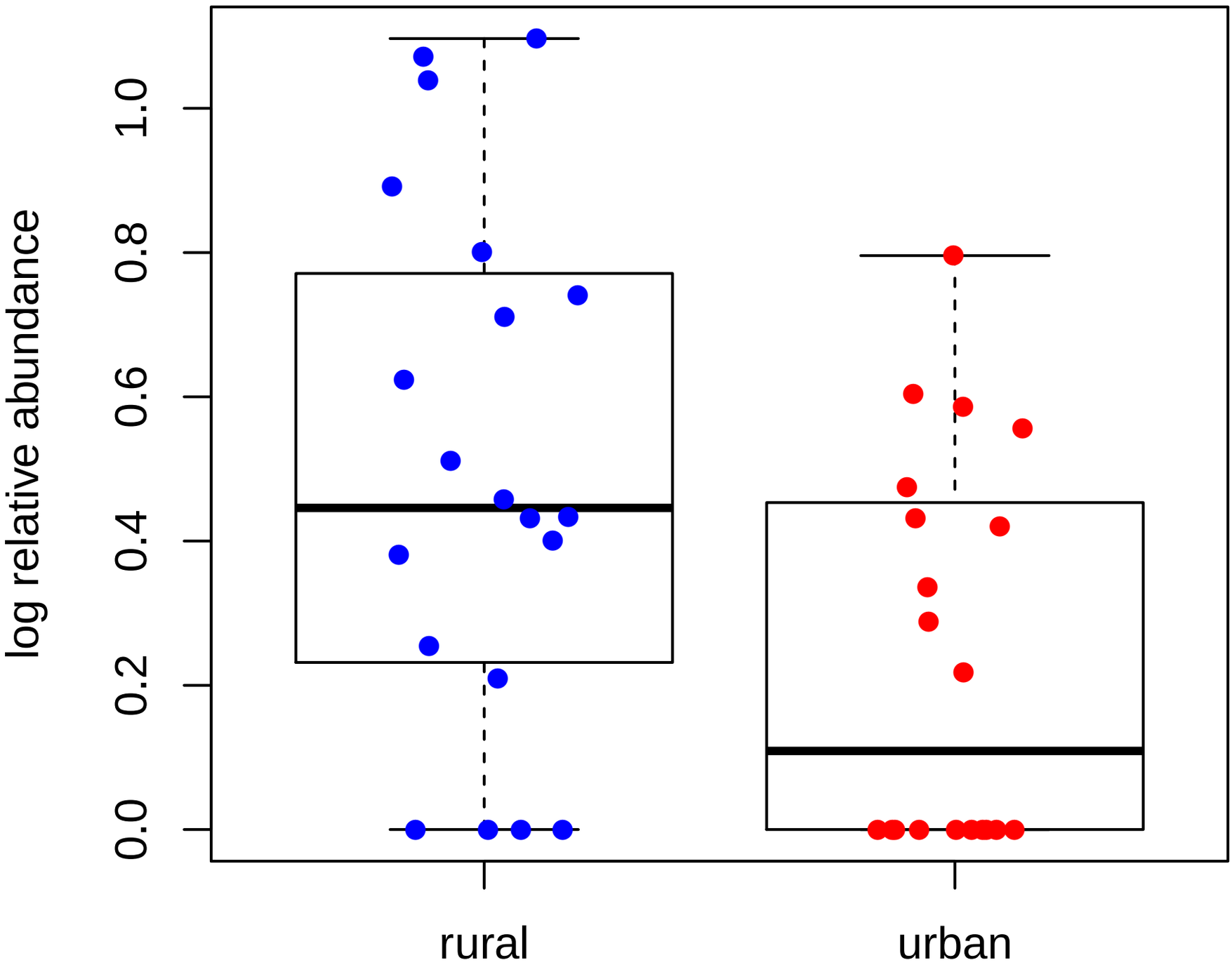

WGS species: Prevotella_sp._oral_taxon_299
pAdjRuralUrban= 0.0931
log relative abundance
4.0
3.5
3.0
2.5
2.0
1.5
1.0
rural
urban

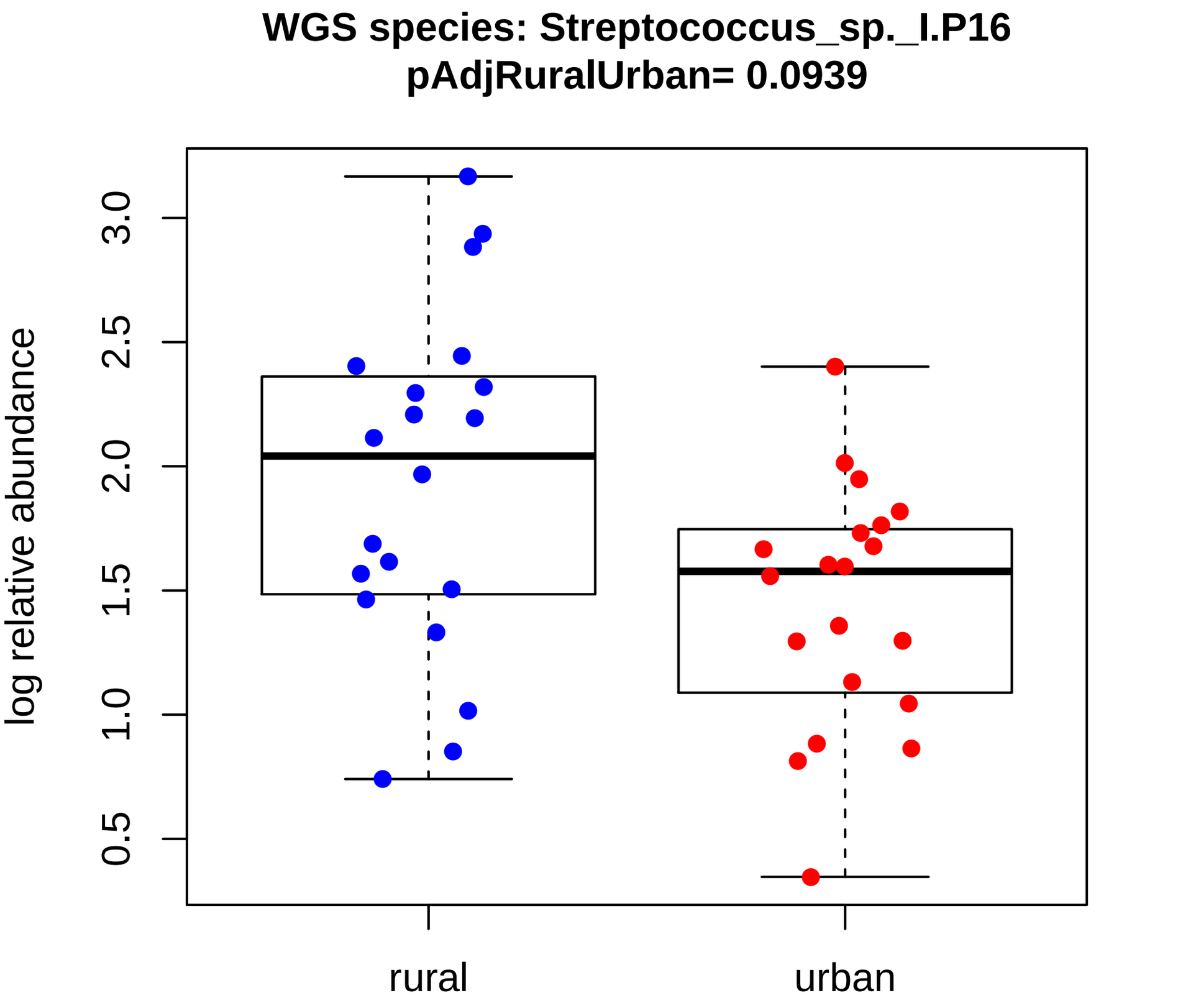

WGS species: Listeria_ivanovii
pAdjRuralUrban= 0.0931
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

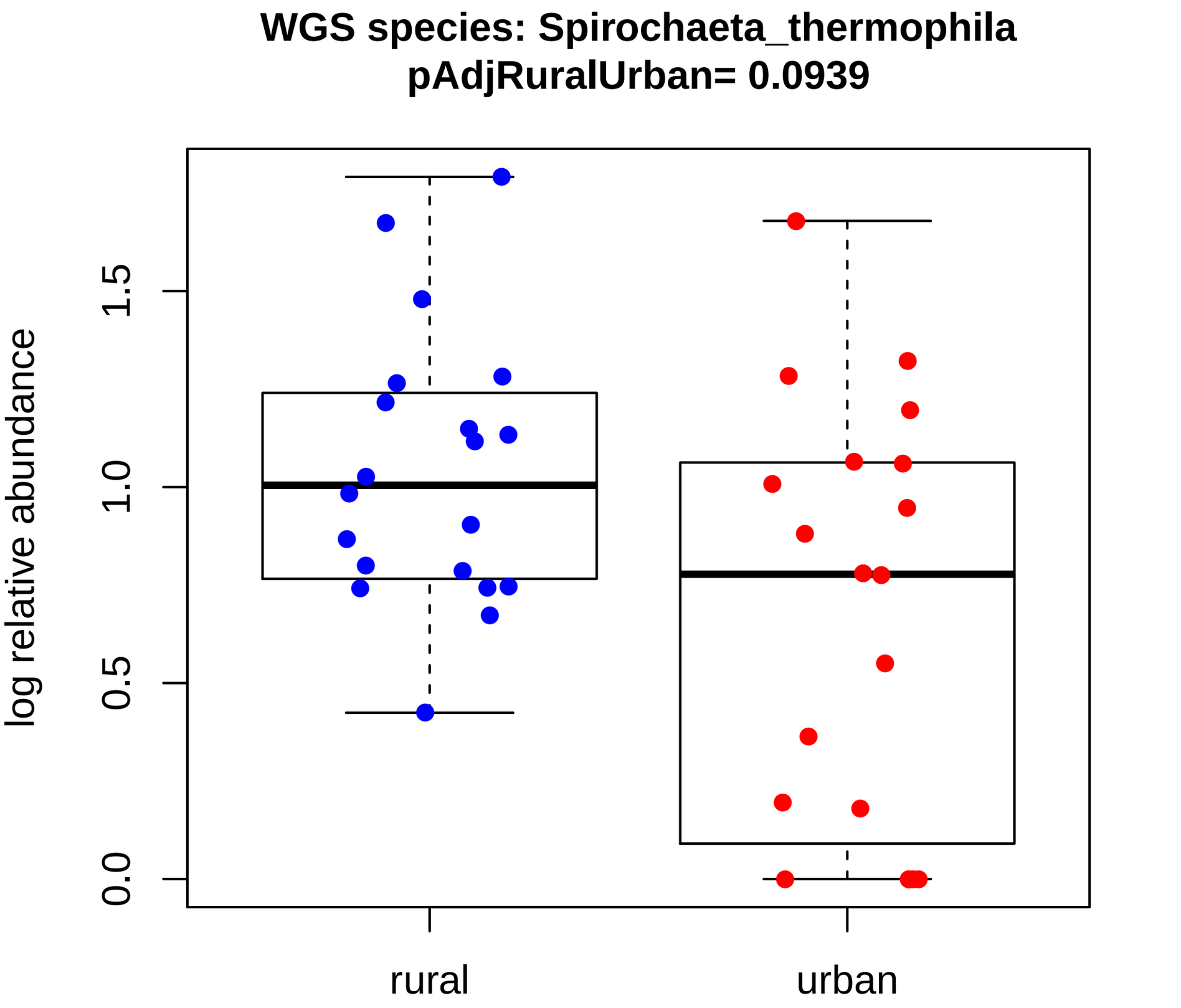

WGS species: Thermobacillus_composti
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

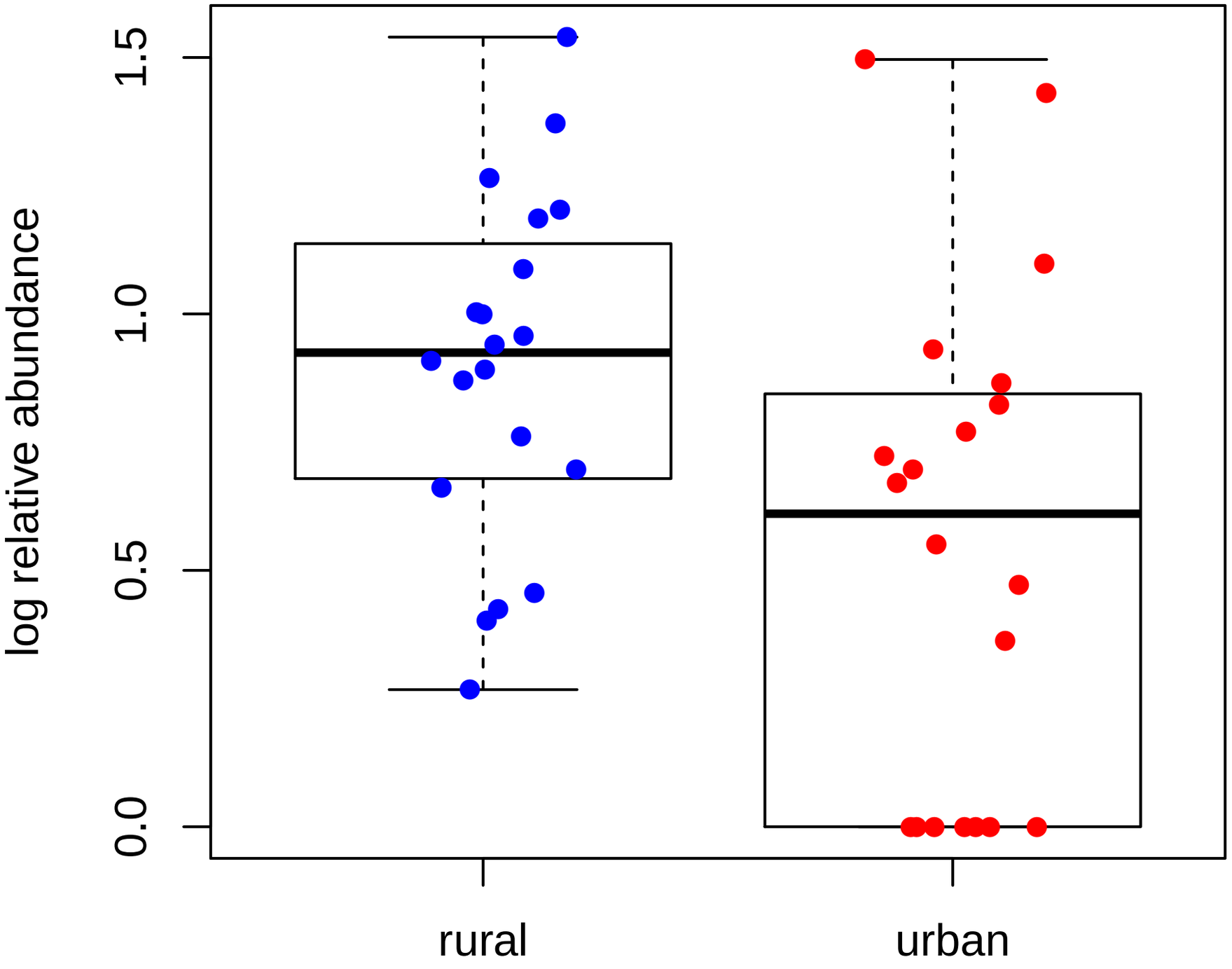

WGS species: Pedobacter_saltans
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

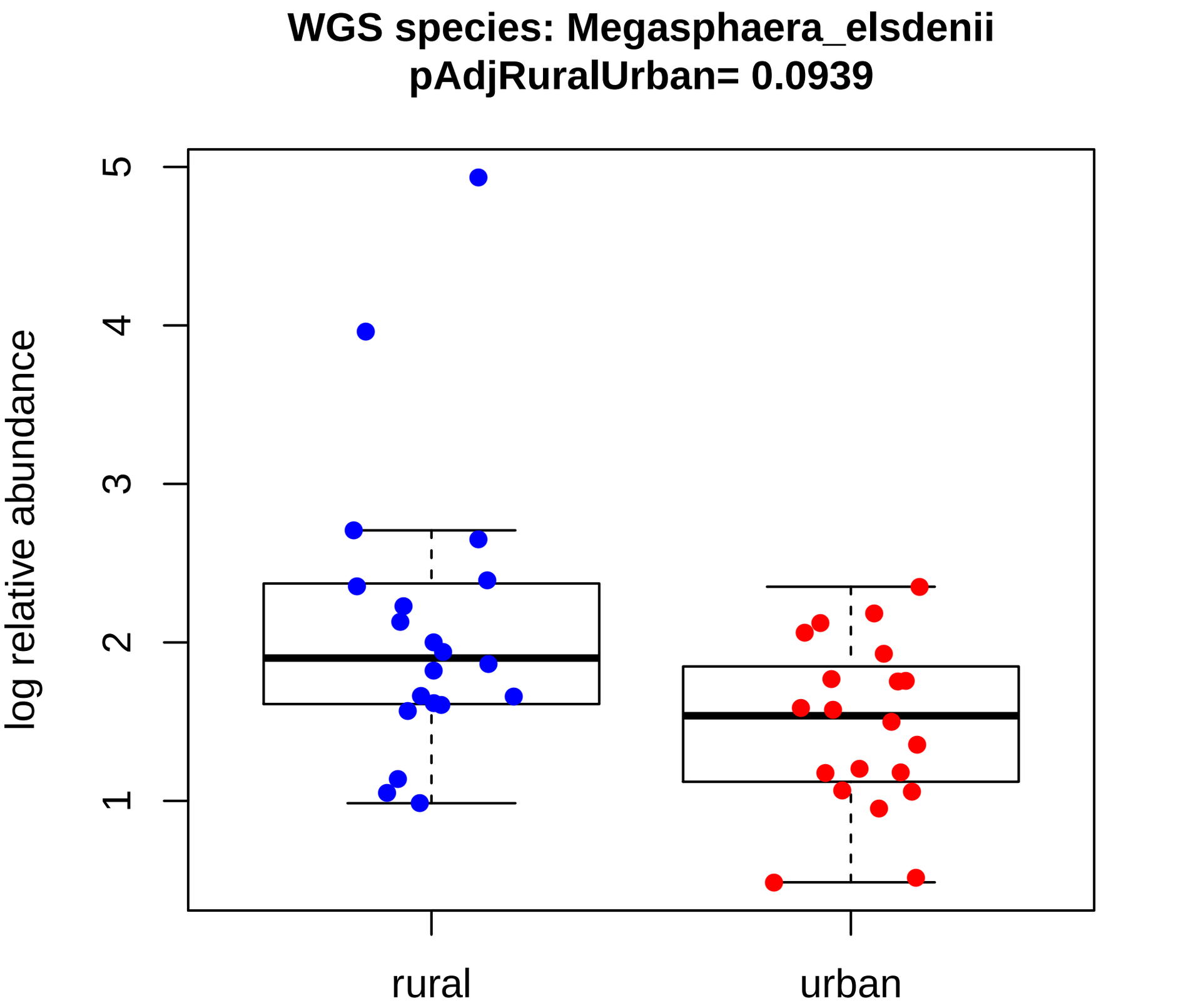

WGS species: Peptoclostridium_difficile
pAdjRuralUrban= 0.0939
log relative abundance
3.0
3.2
3.4
3.6
3.8
rural
urban

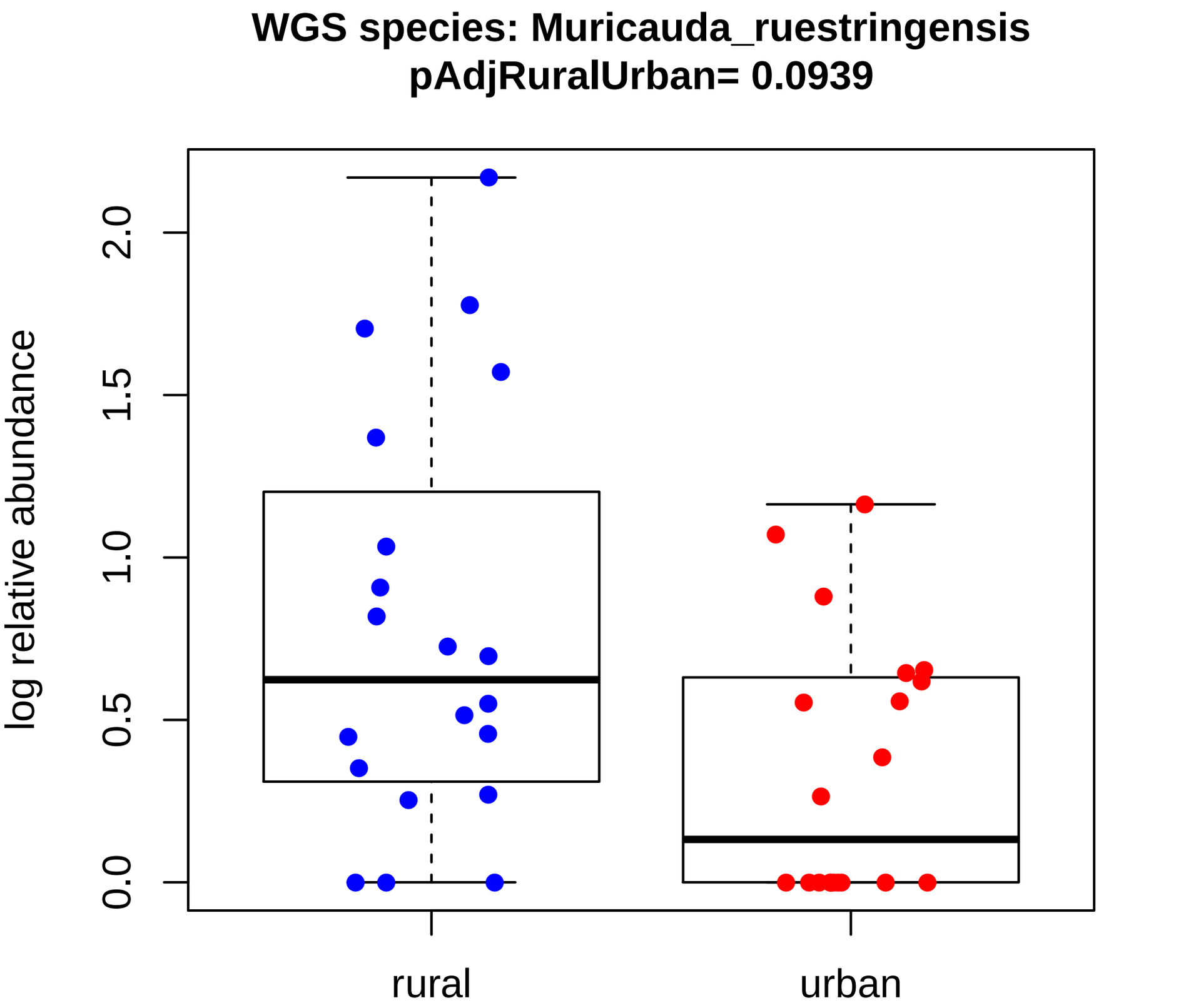

WGS species: Spiroplasma_diminutum
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

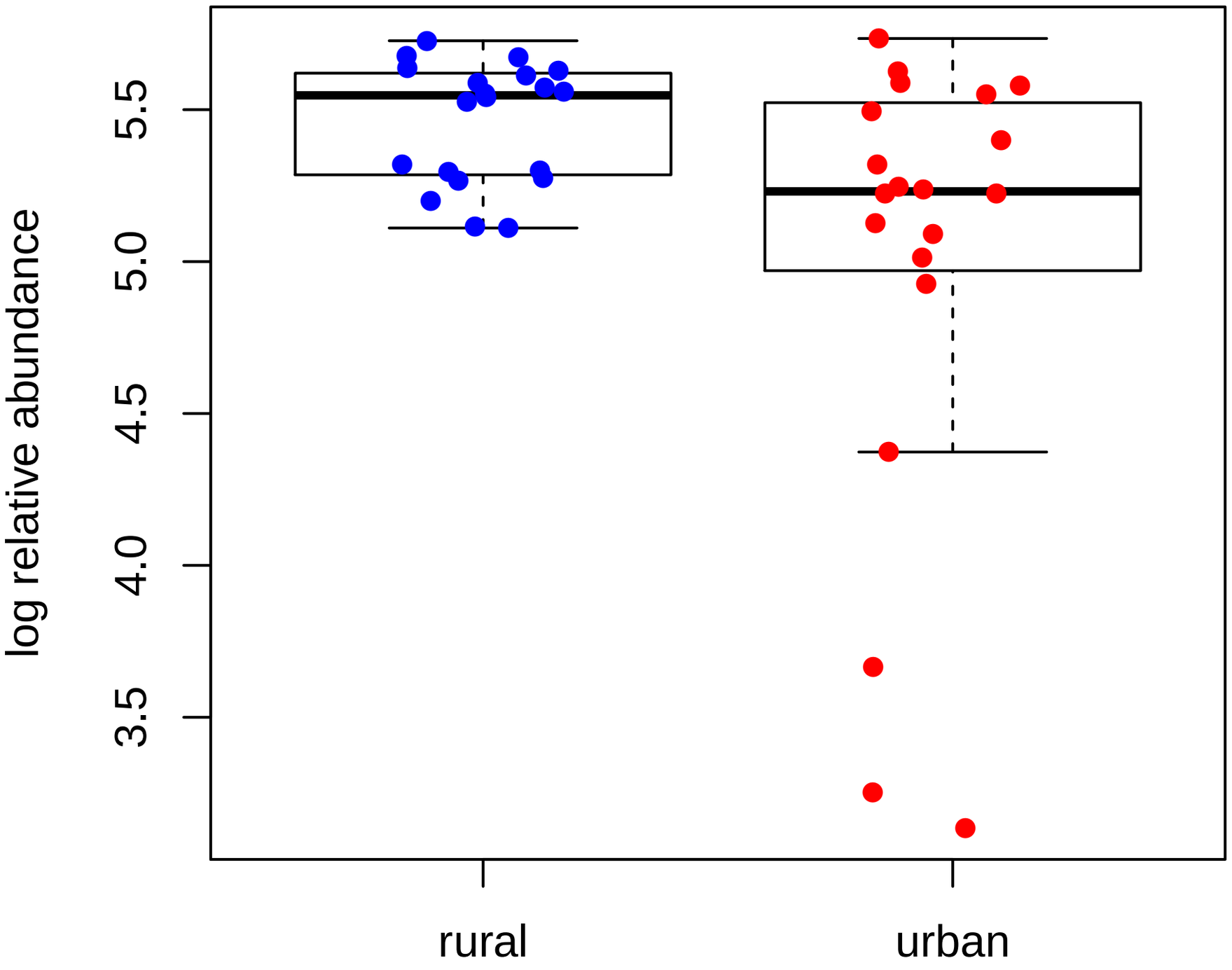

WGS species: Streptococcus_sp._I.P16
pAdjRuralUrban= 0.0939
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

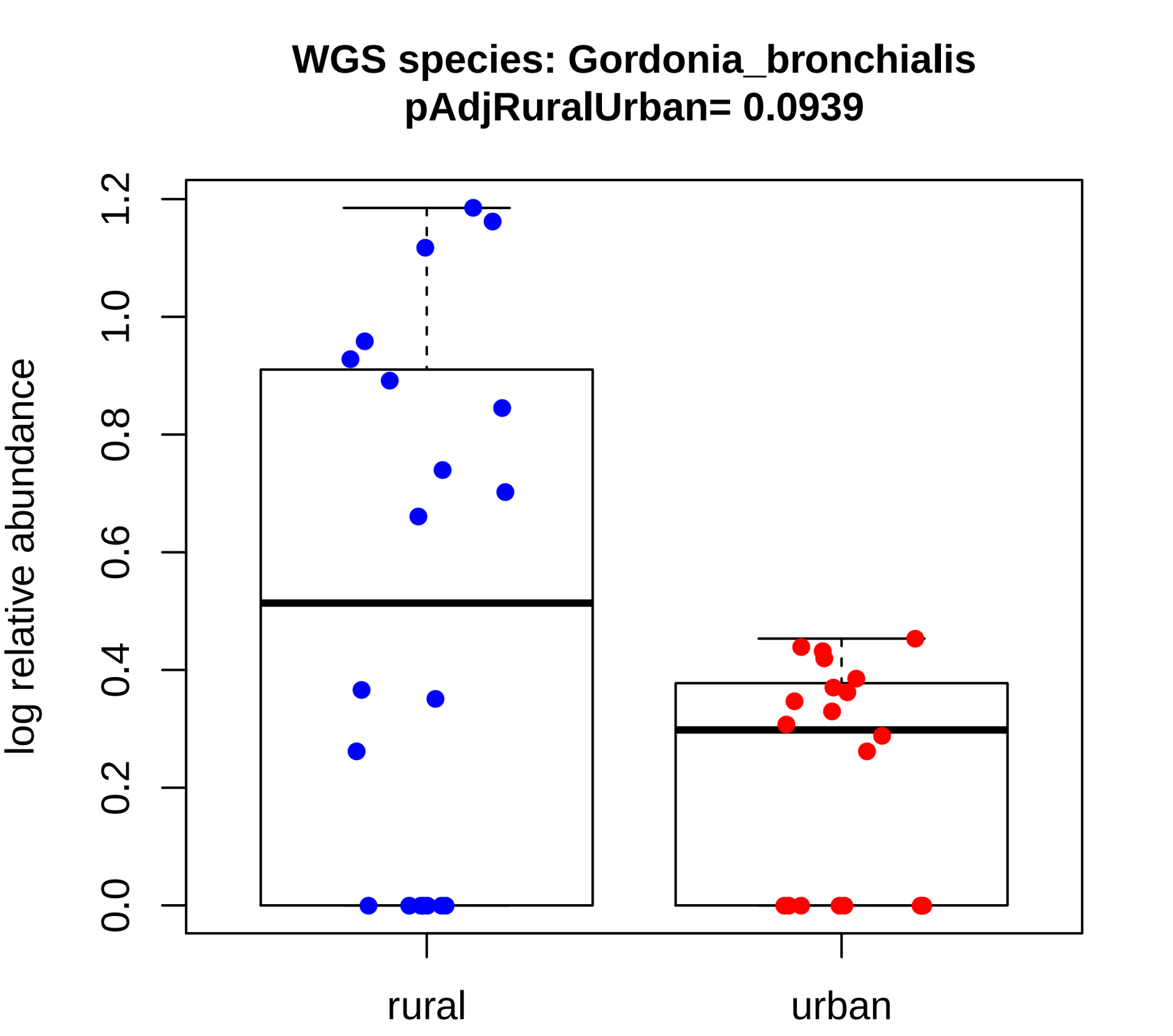

WGS species: Spirochaeta_thermophila
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

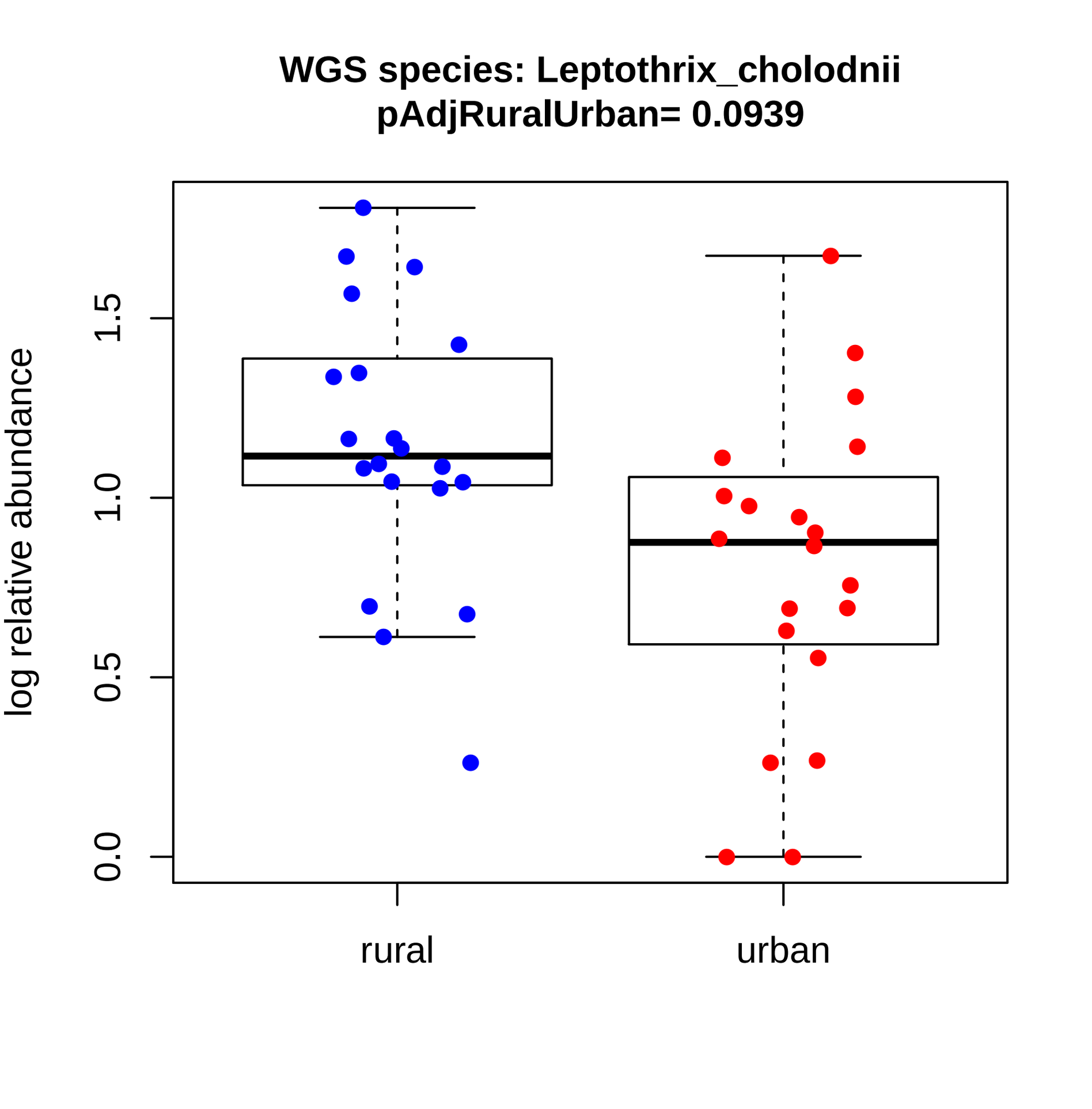

WGS species: Pseudomonas_denitrificans
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

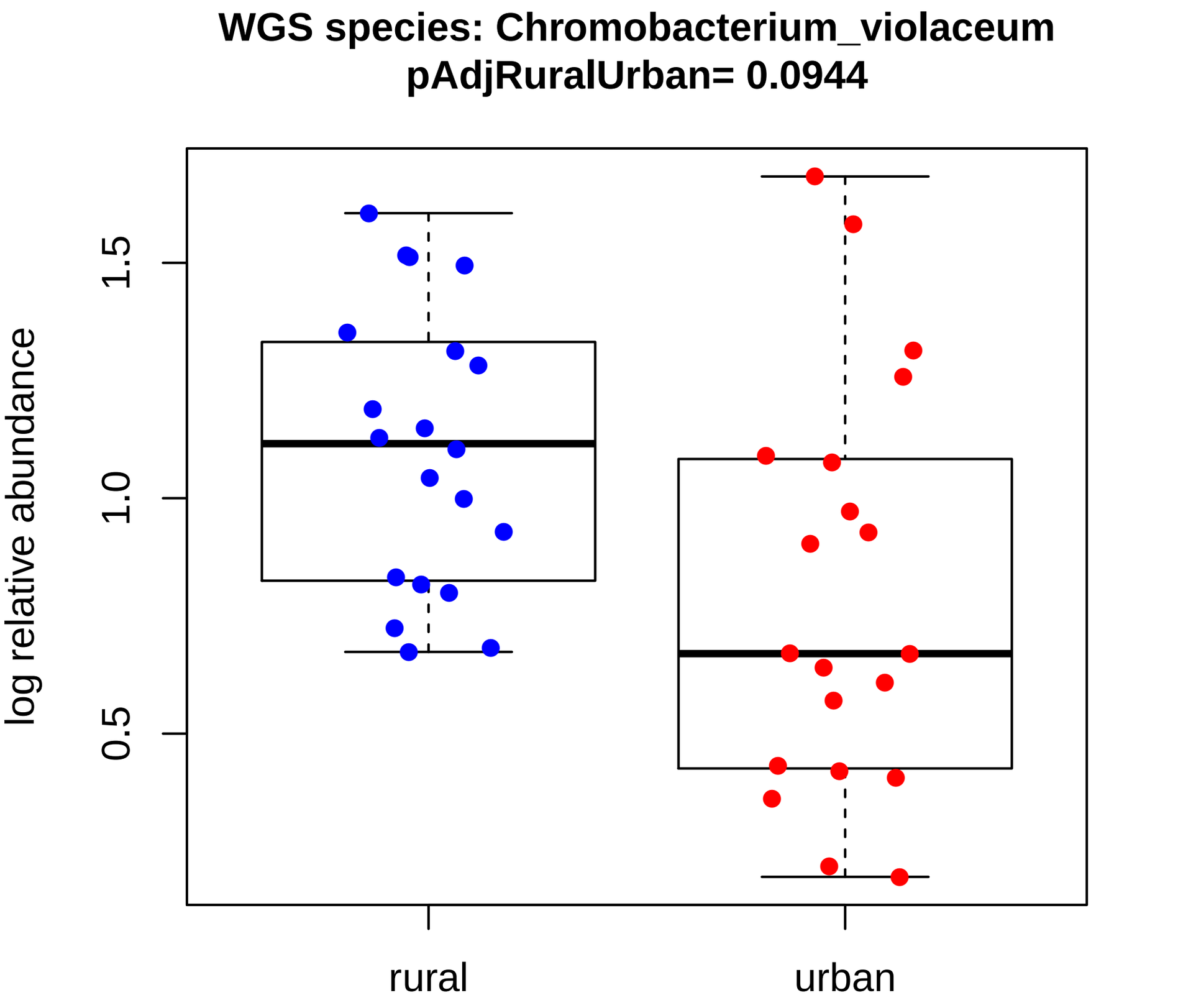

WGS species: Megasphaera_elsdenii
pAdjRuralUrban= 0.0939
log relative abundance
1
2
3
4
5
rural
urban

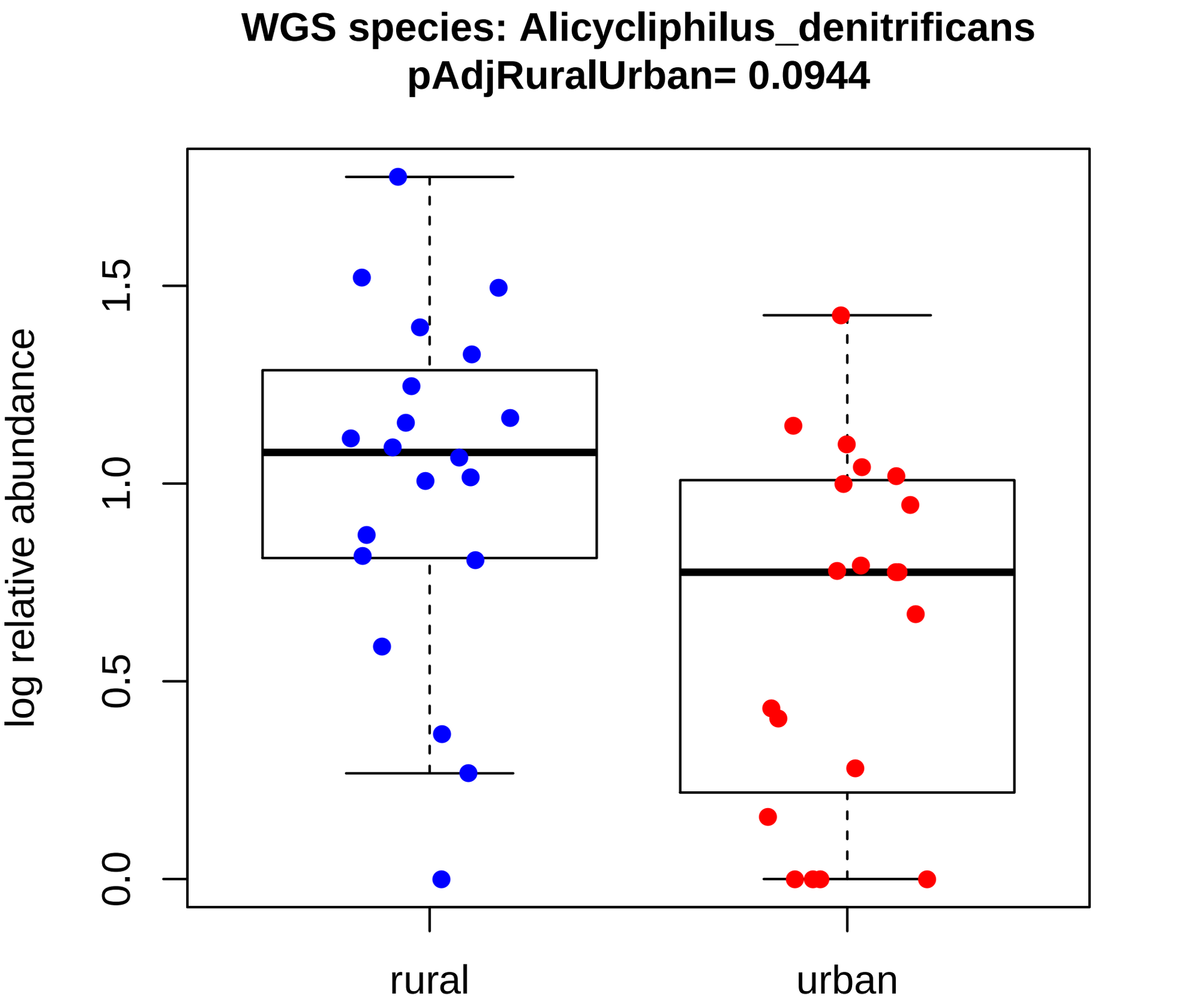

WGS species: Muricauda_ruestringensis
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

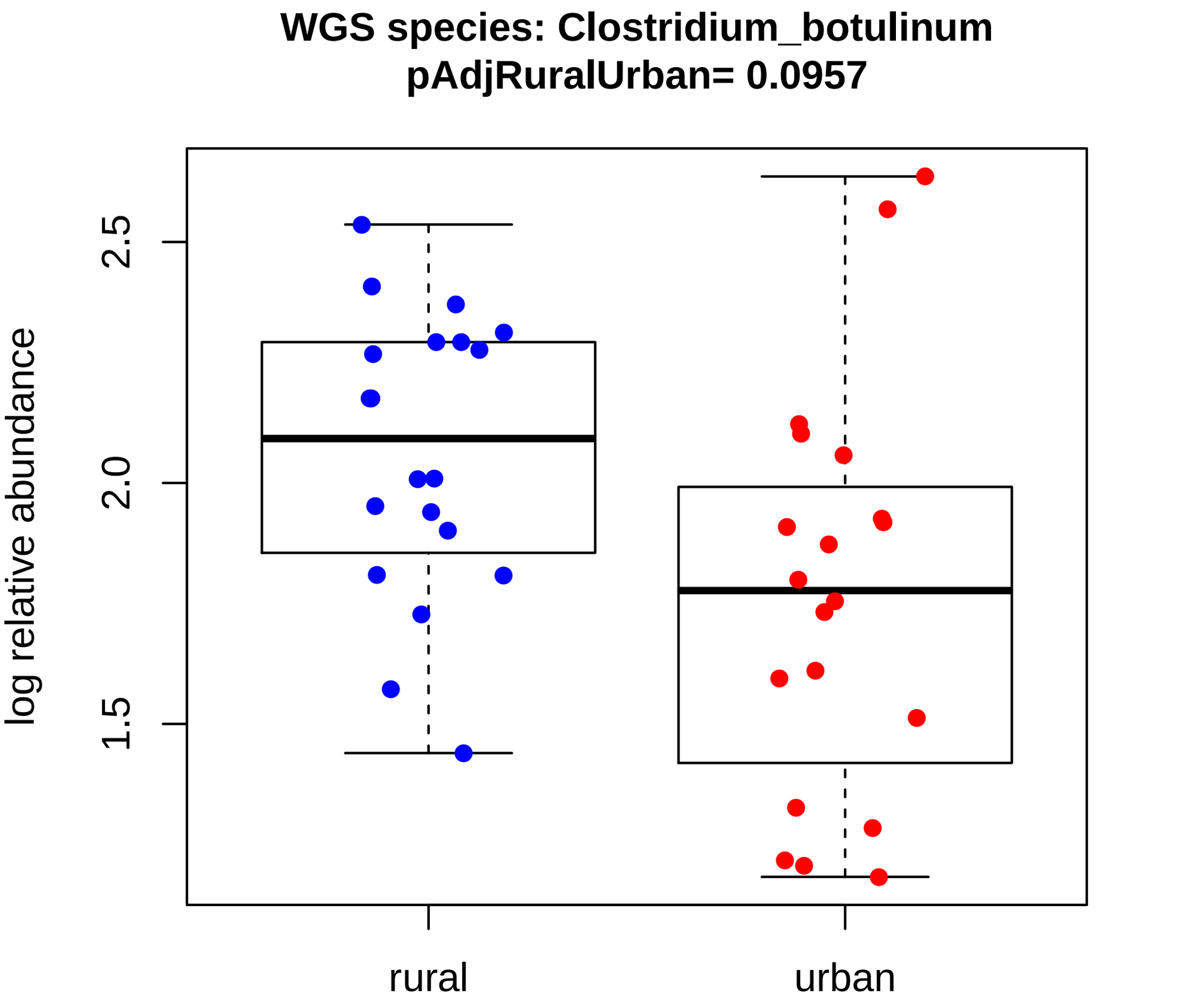

WGS species: Faecalibacterium_prausnitzii
pAdjRuralUrban= 0.0939
log relative abundance
3.5
4.0
4.5
5.0
5.5
rural
urban

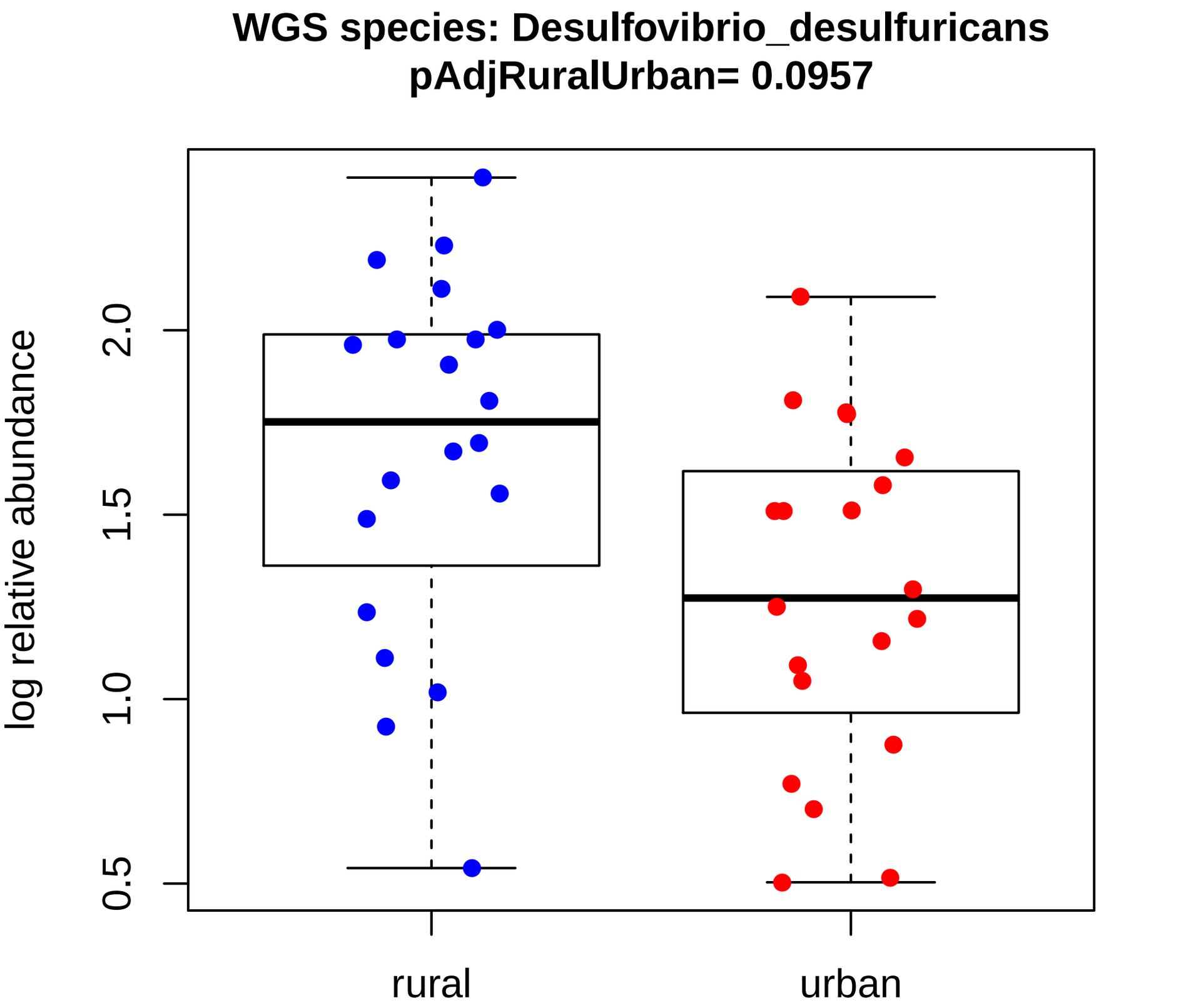

WGS species: Gordonia_bronchialis
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

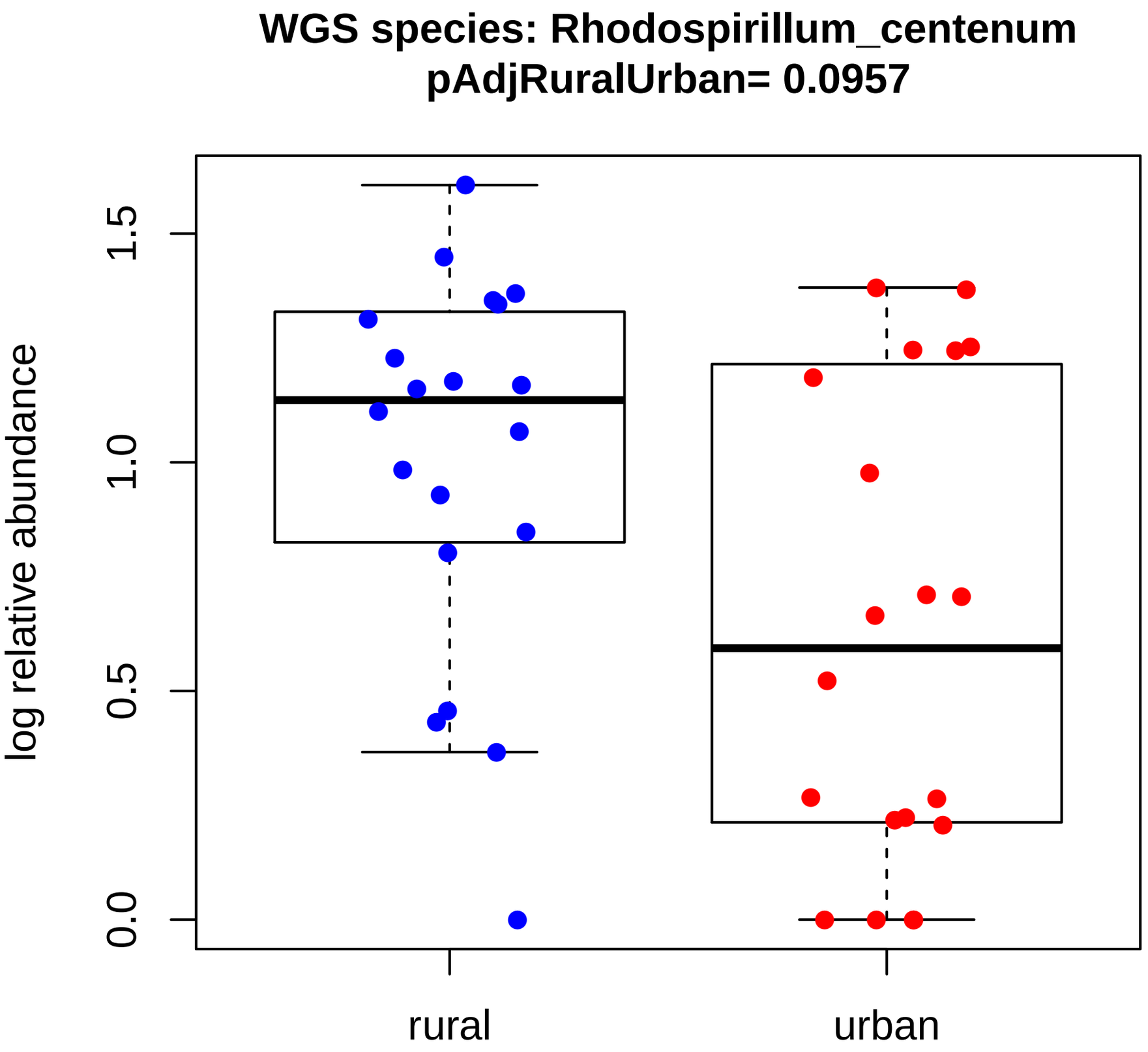

WGS species: Leptothrix_cholodnii
pAdjRuralUrban= 0.0939
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

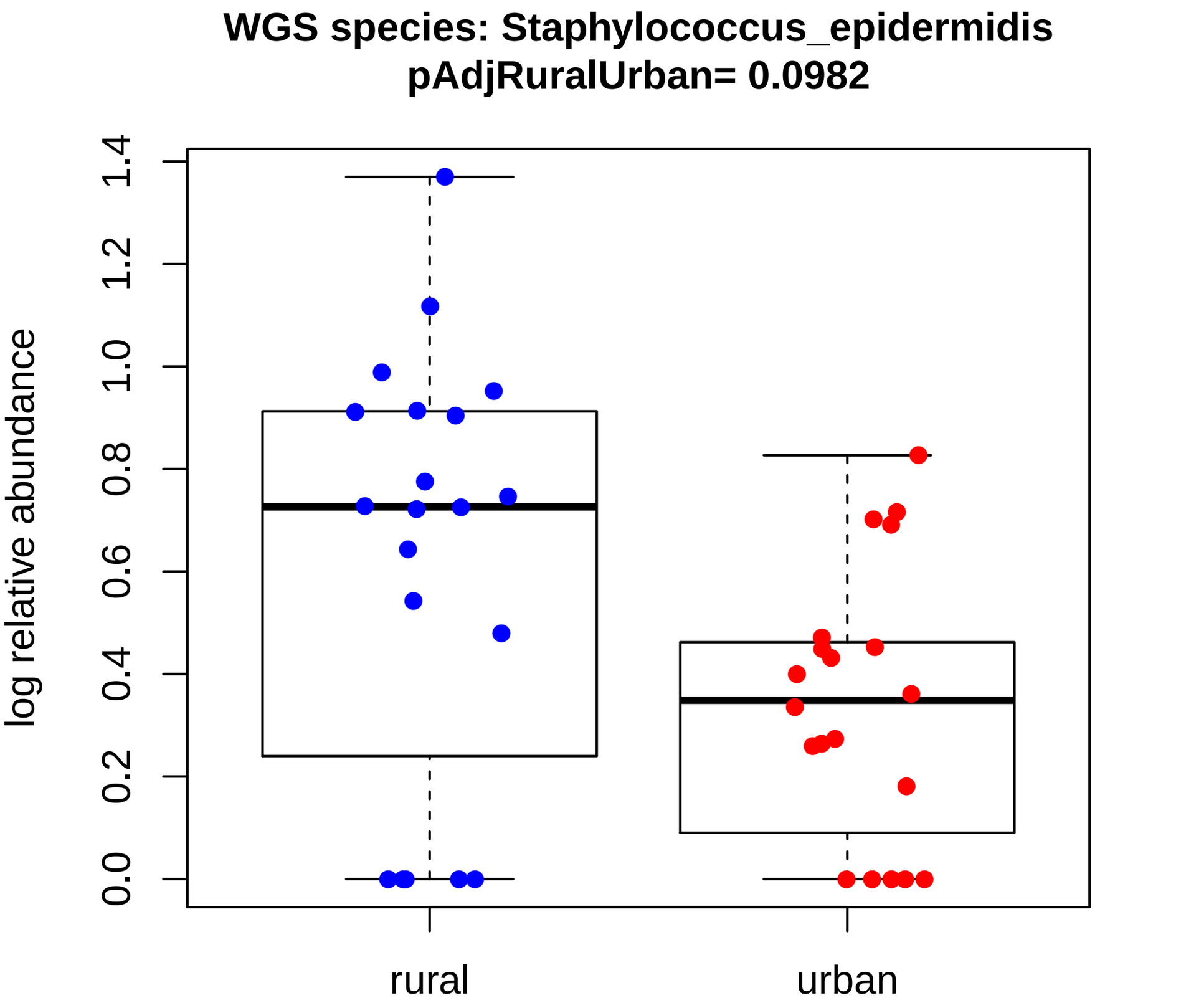

WGS species: Chromobacterium_violaceum
pAdjRuralUrban= 0.0944
log relative abundance
0.5
1.0
1.5
rural
urban

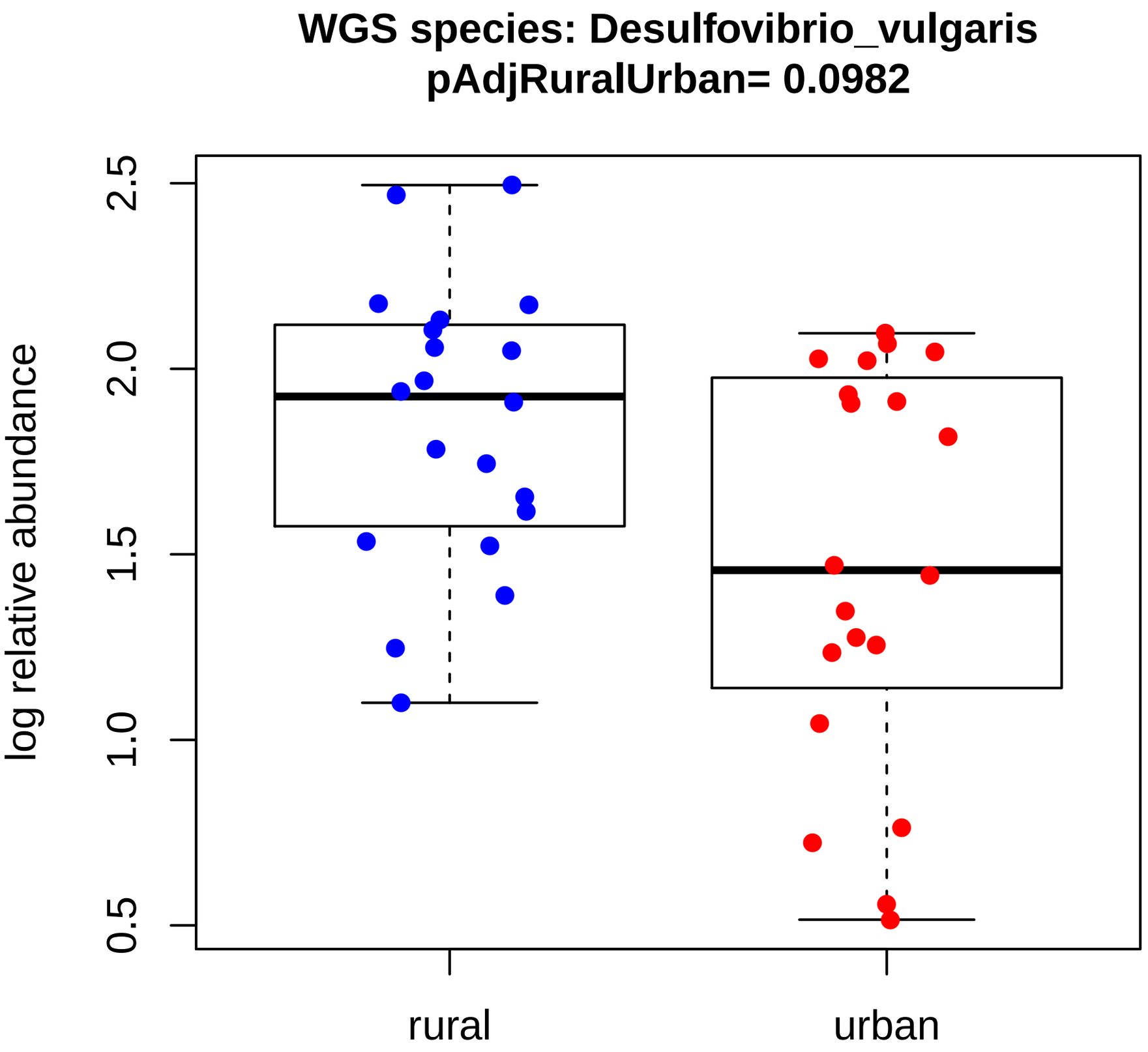

WGS species: Alicycliphilus_denitrificans
pAdjRuralUrban= 0.0944
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

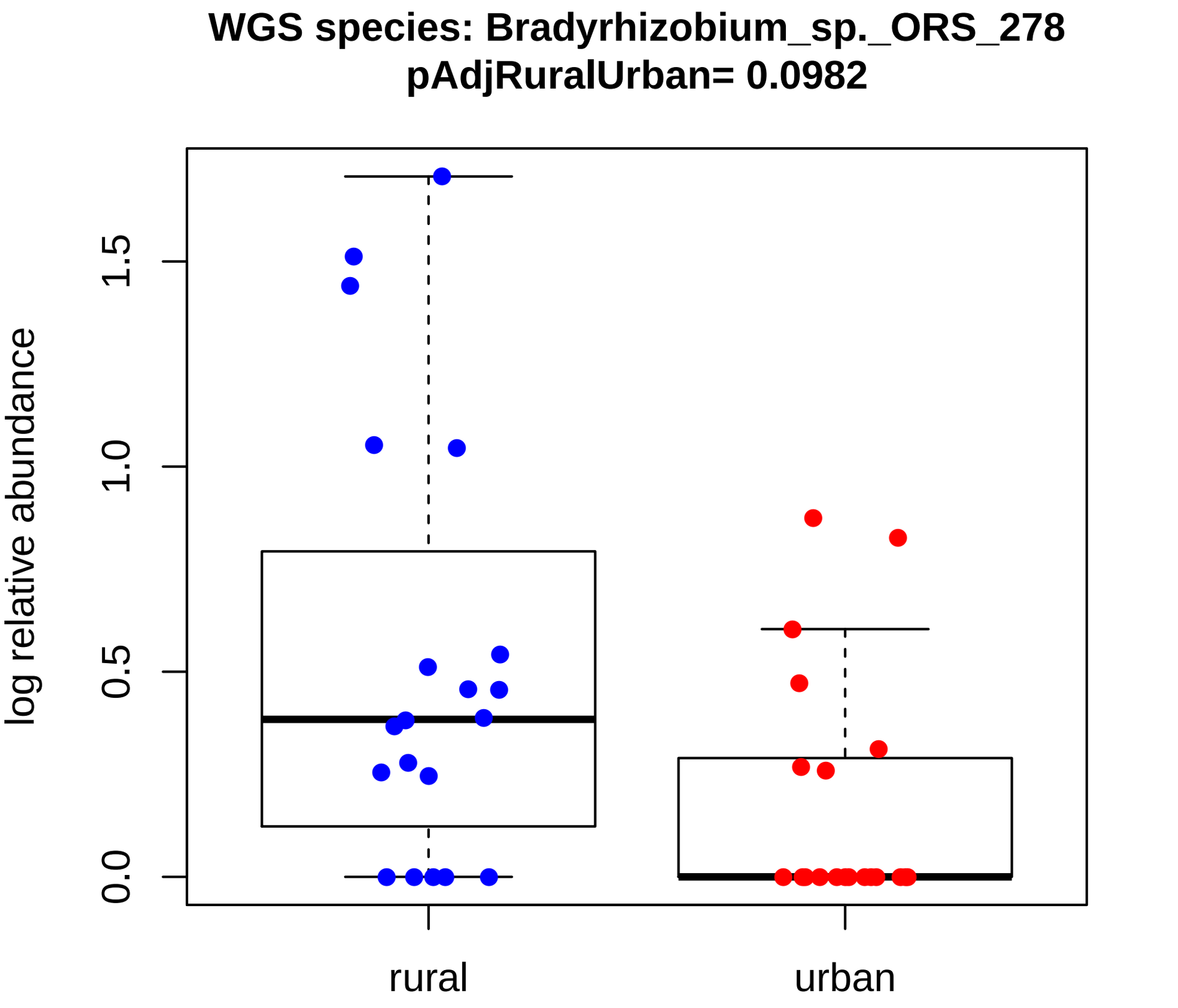

WGS species: Clostridium_botulinum
pAdjRuralUrban= 0.0957
log relative abundance
2.5
2.0
1.5
rural
urban

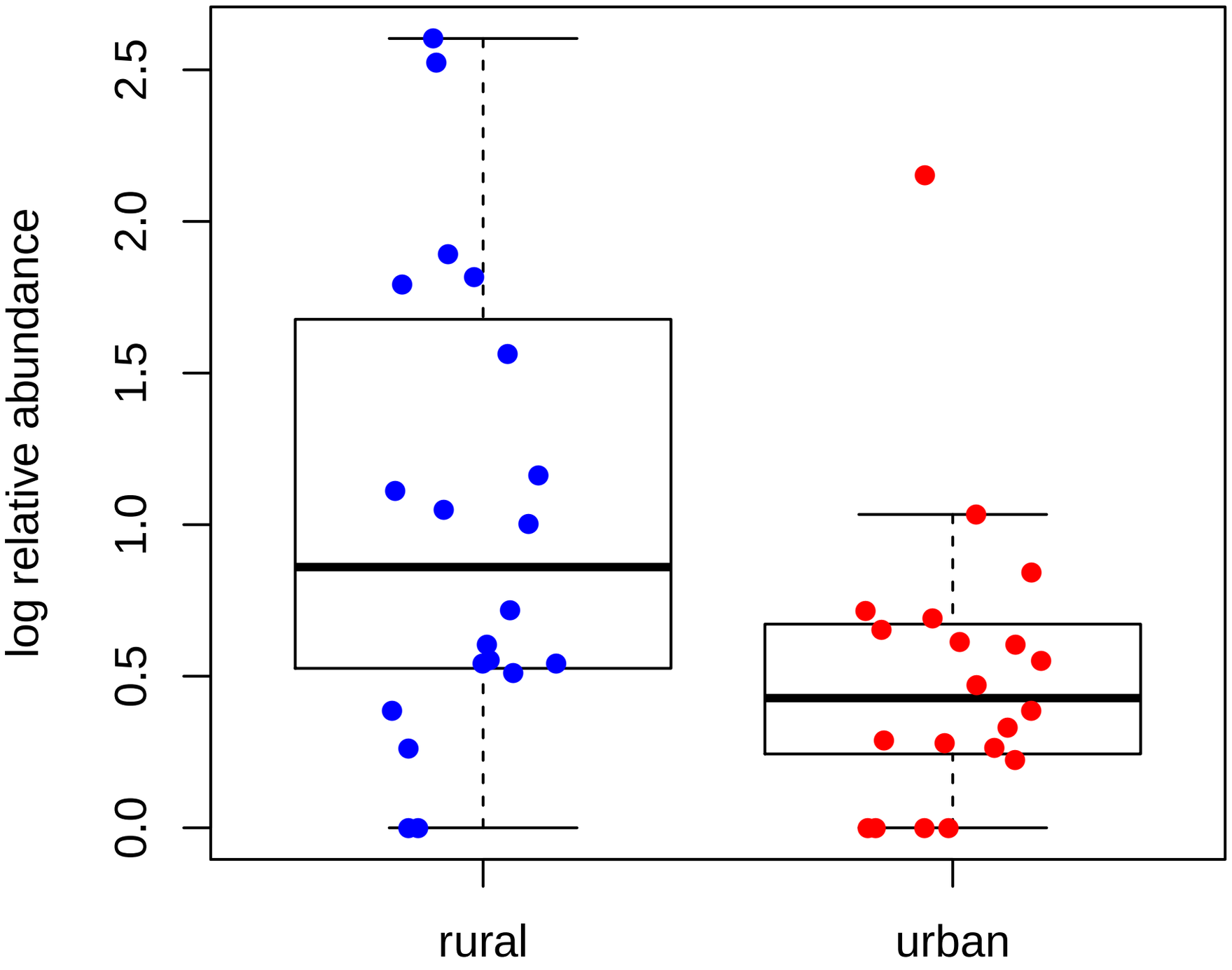

WGS species: Desulfovibrio_desulfuricans
pAdjRuralUrban= 0.0957
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

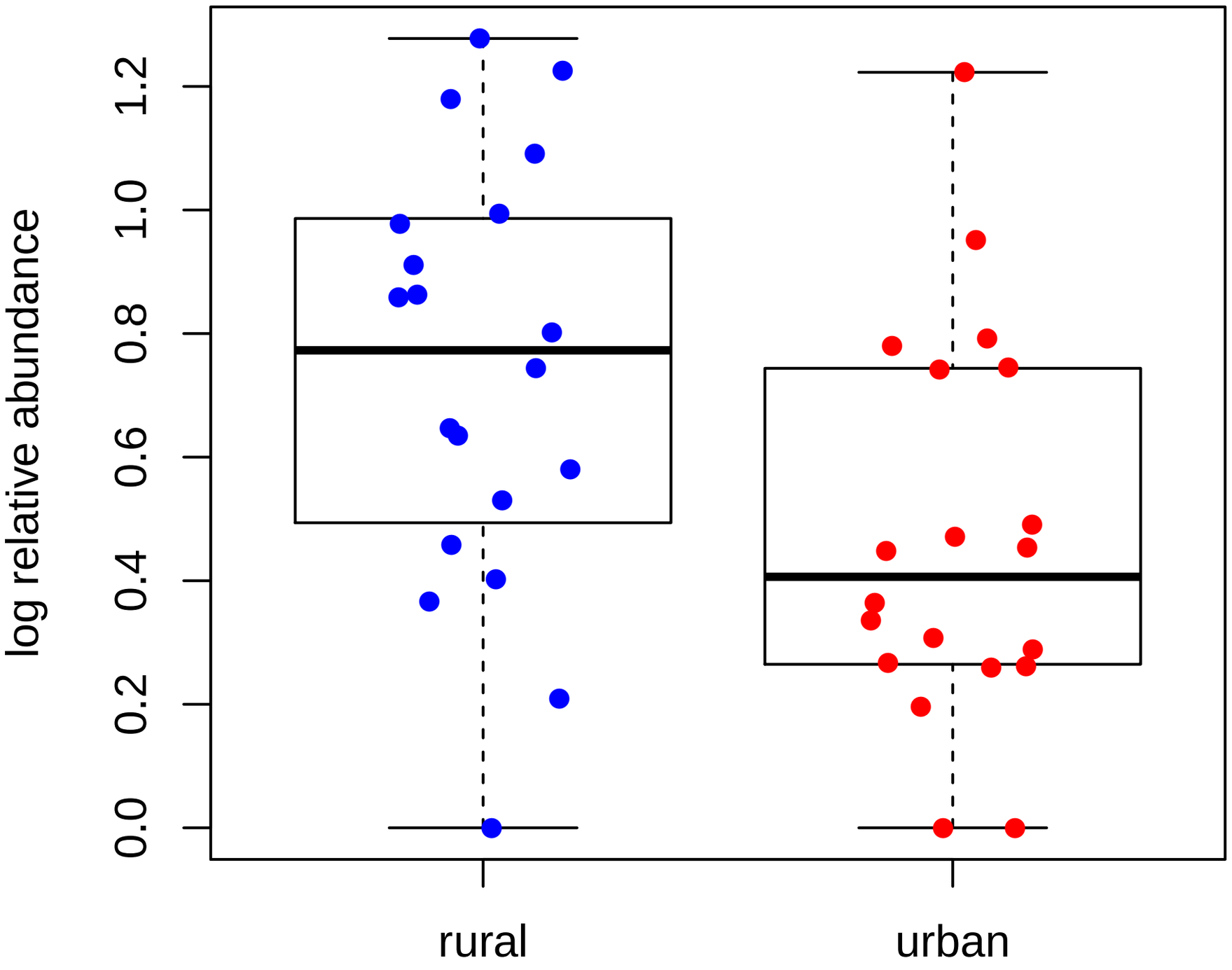

WGS species: Rhodospirillum_centenum
pAdjRuralUrban= 0.0957
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

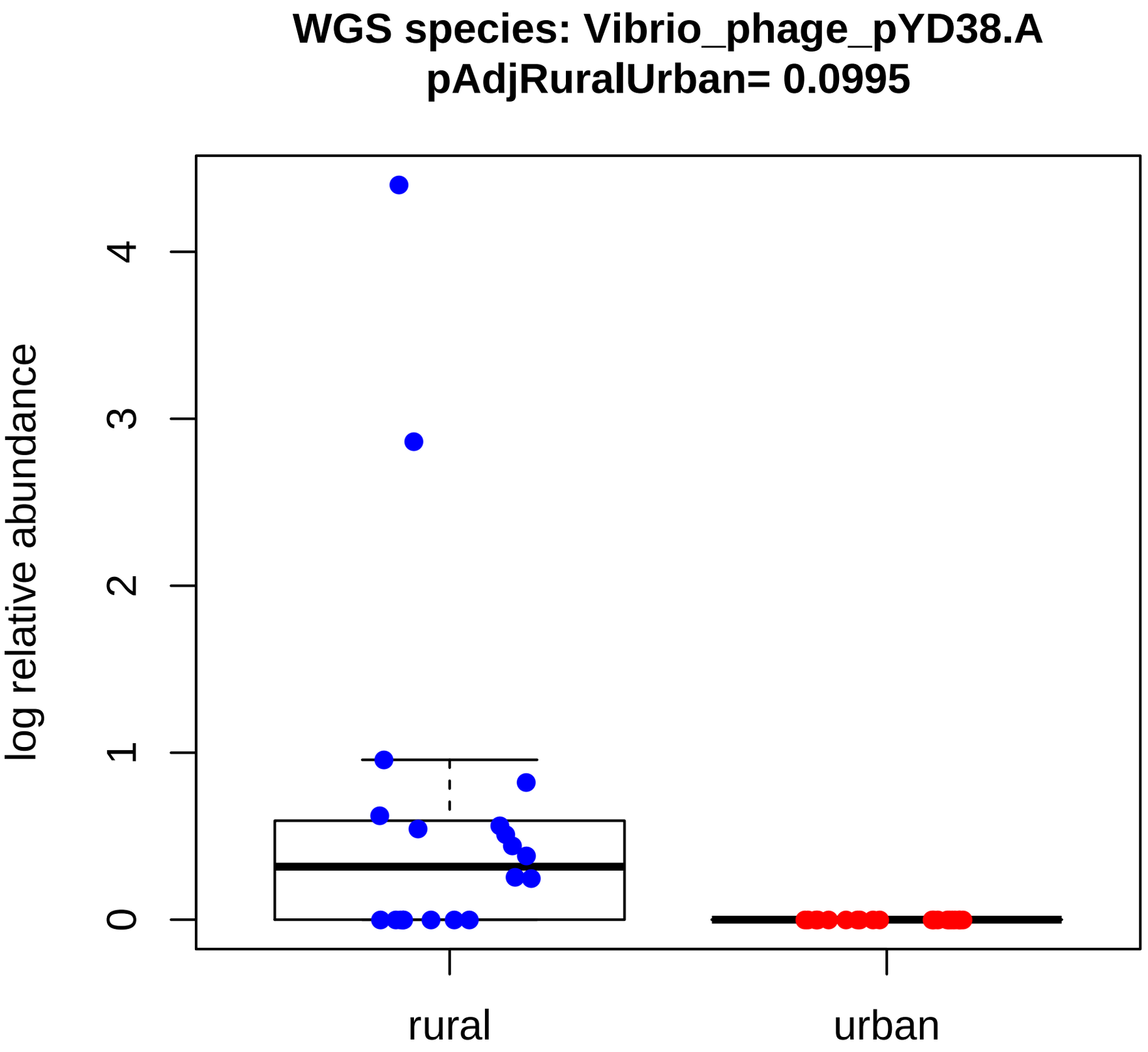

WGS species: Staphylococcus_epidermidis
pAdjRuralUrban= 0.0982
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

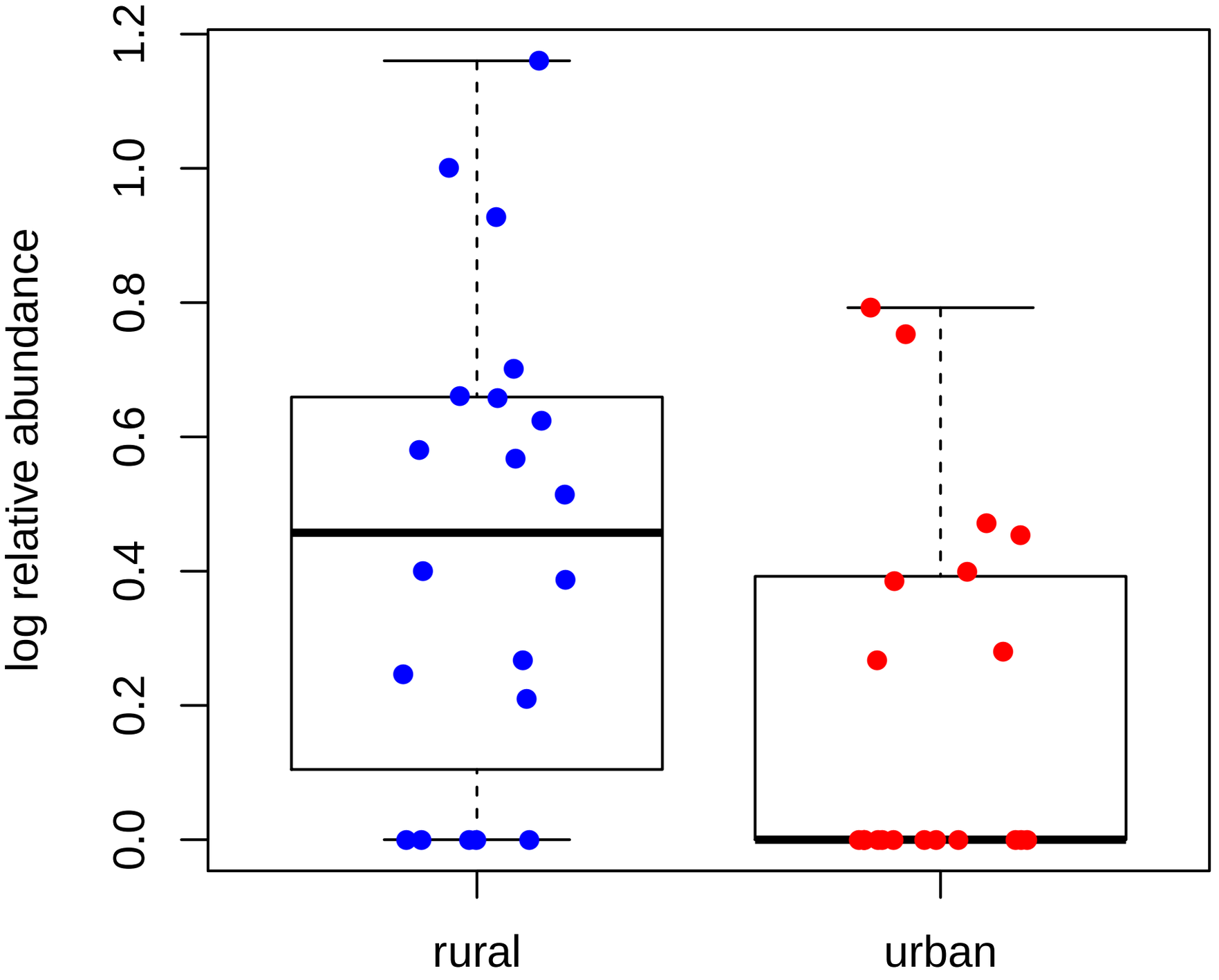

WGS species: Desulfovibrio_vulgaris
pAdjRuralUrban= 0.0982
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

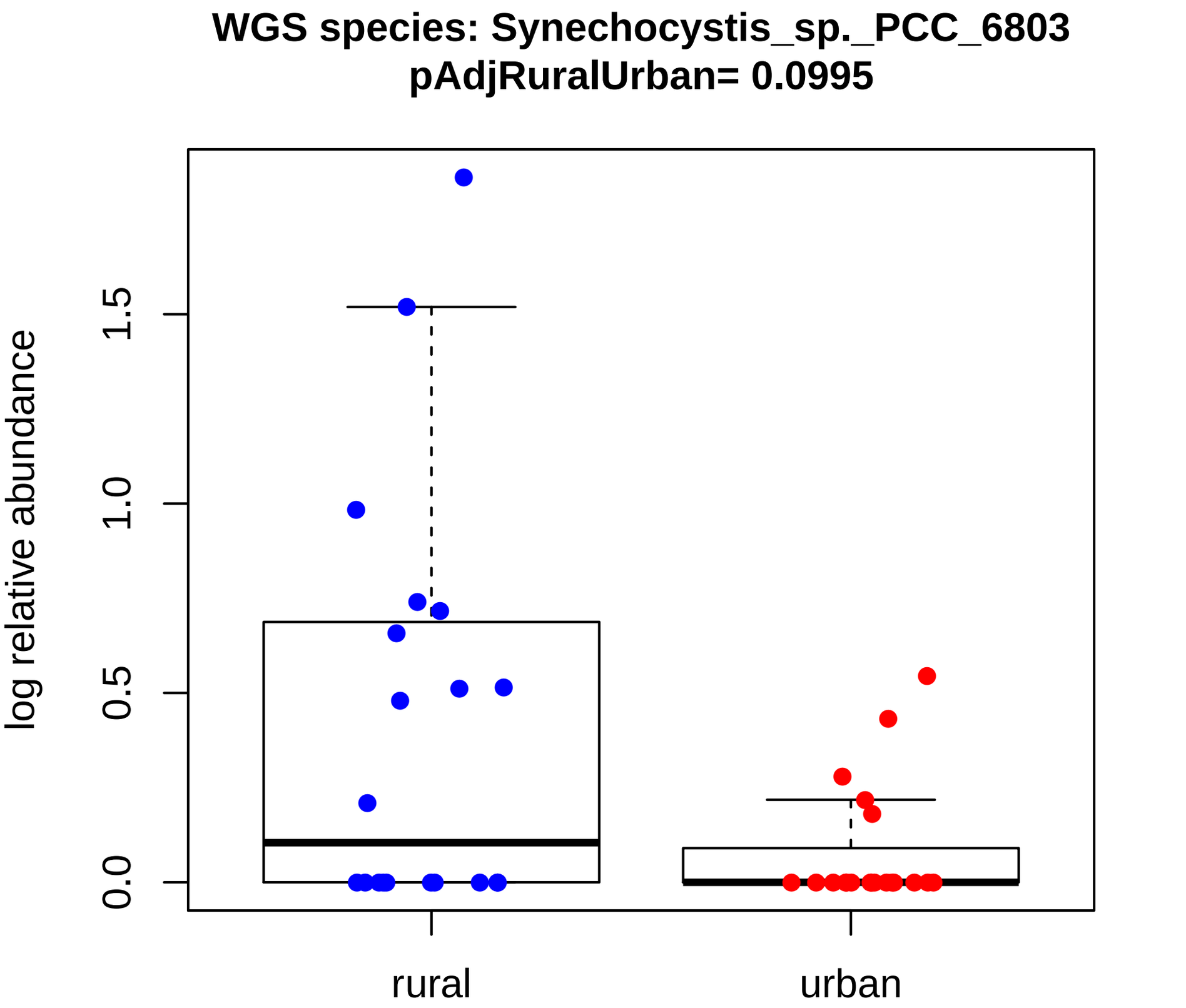

WGS species: Bradyrhizobium_sp._ORS_278
pAdjRuralUrban= 0.0982
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

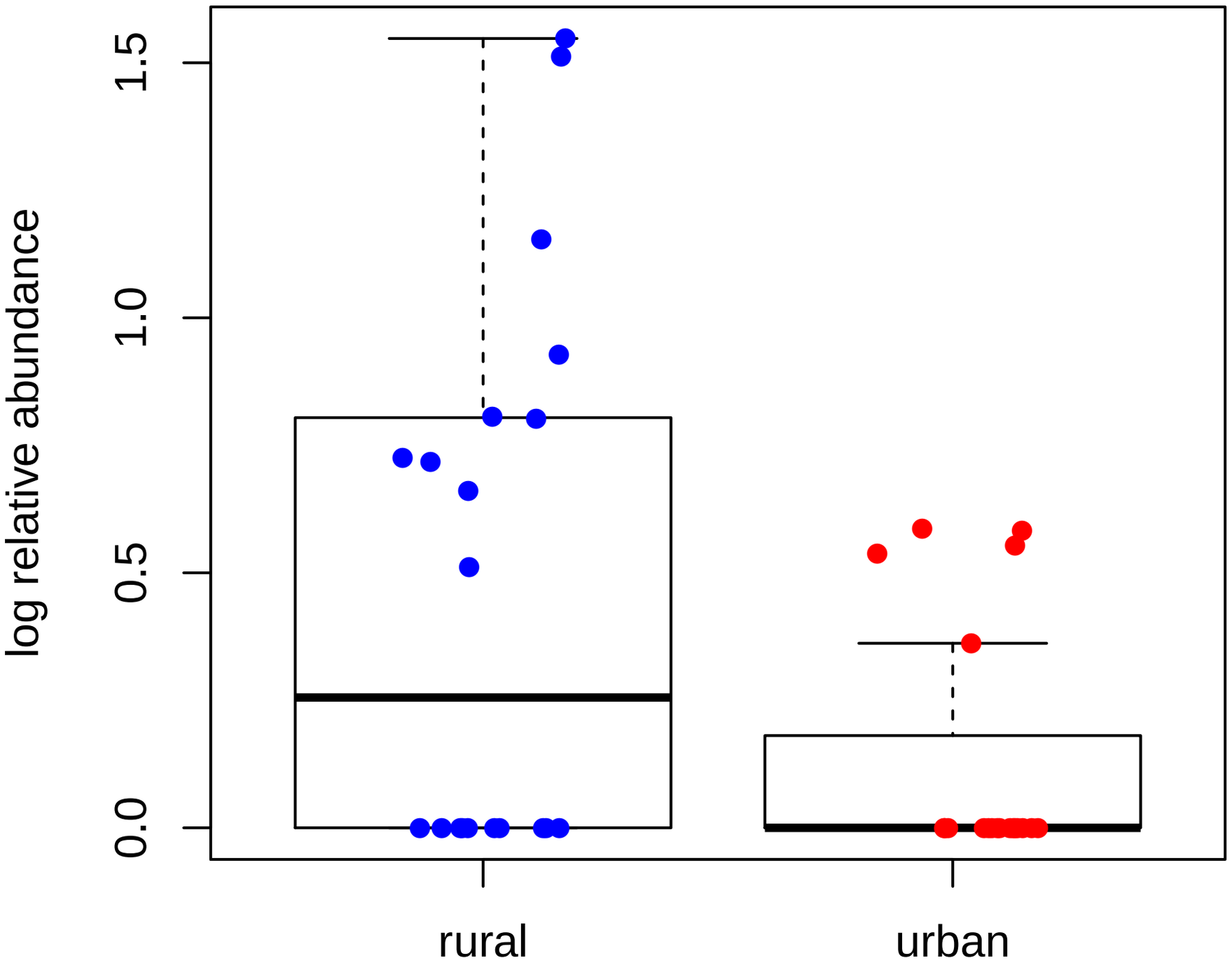

WGS species: Pseudomonas_sp._VLB120
pAdjRuralUrban= 0.0982
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

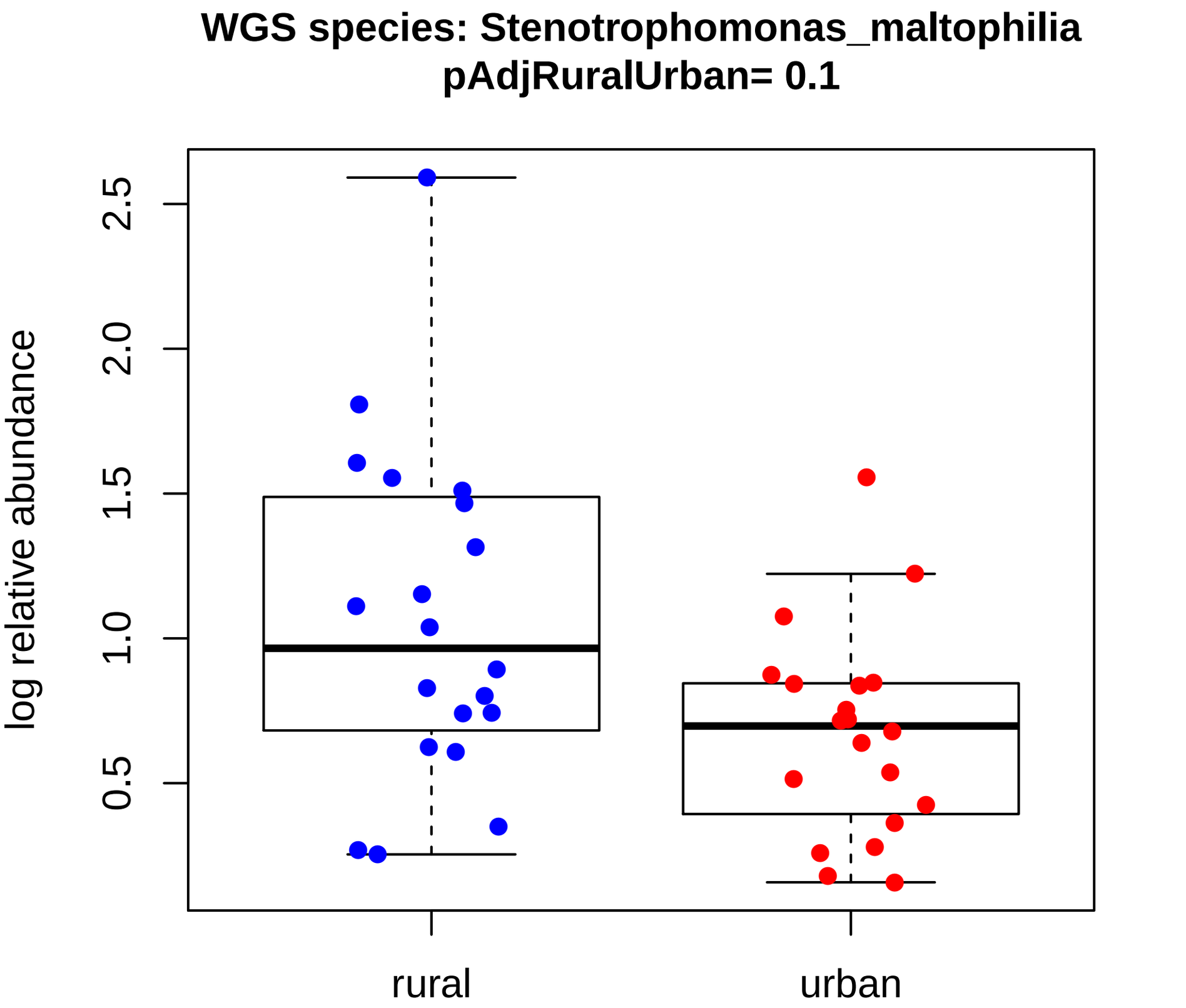

WGS species: Meiothermus_silvanus
pAdjRuralUrban= 0.0995
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

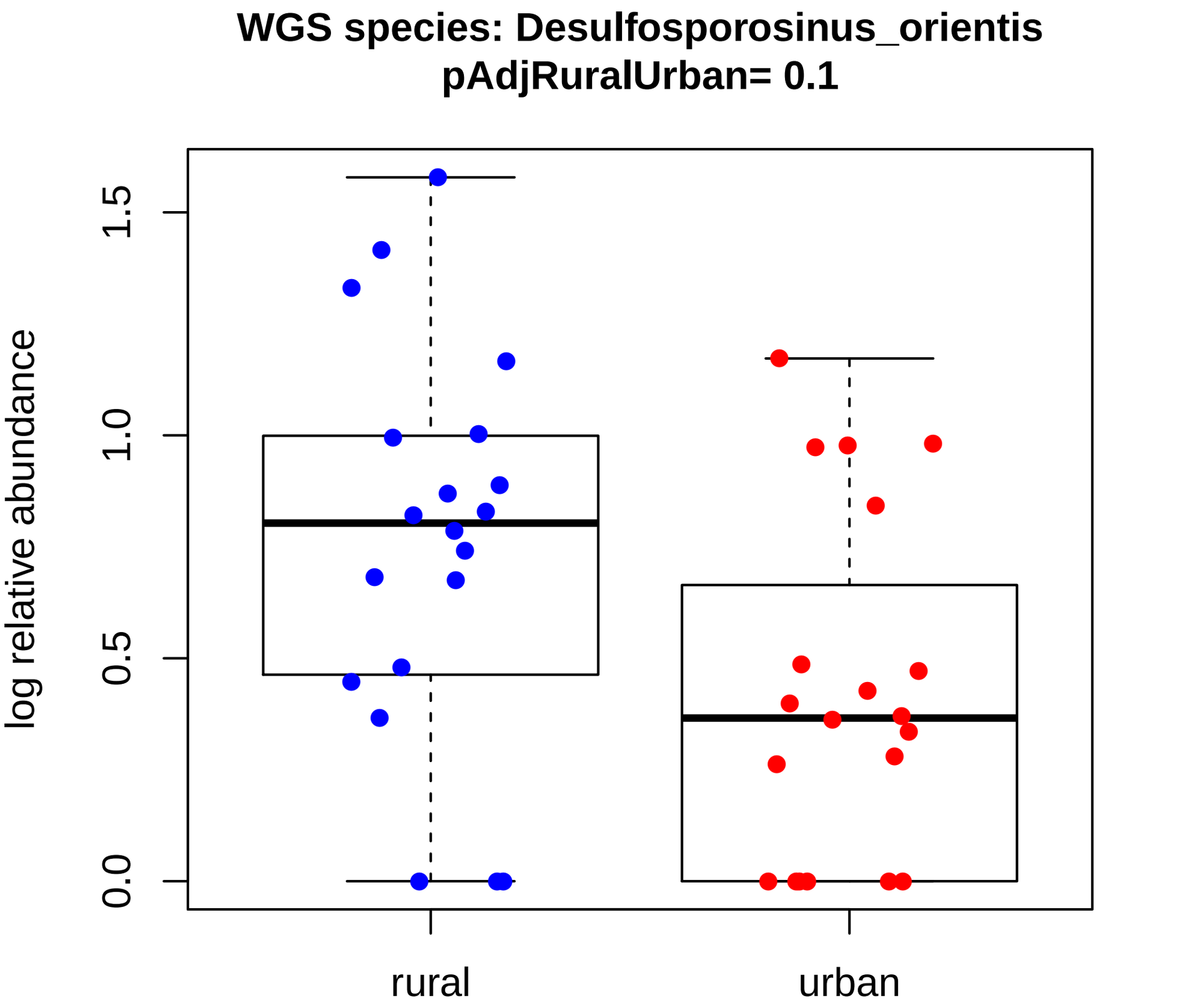

WGS species: Vibrio_phage_pYD38.A
pAdjRuralUrban= 0.0995
log relative abundance
0
1
2
3
4
rural
urban

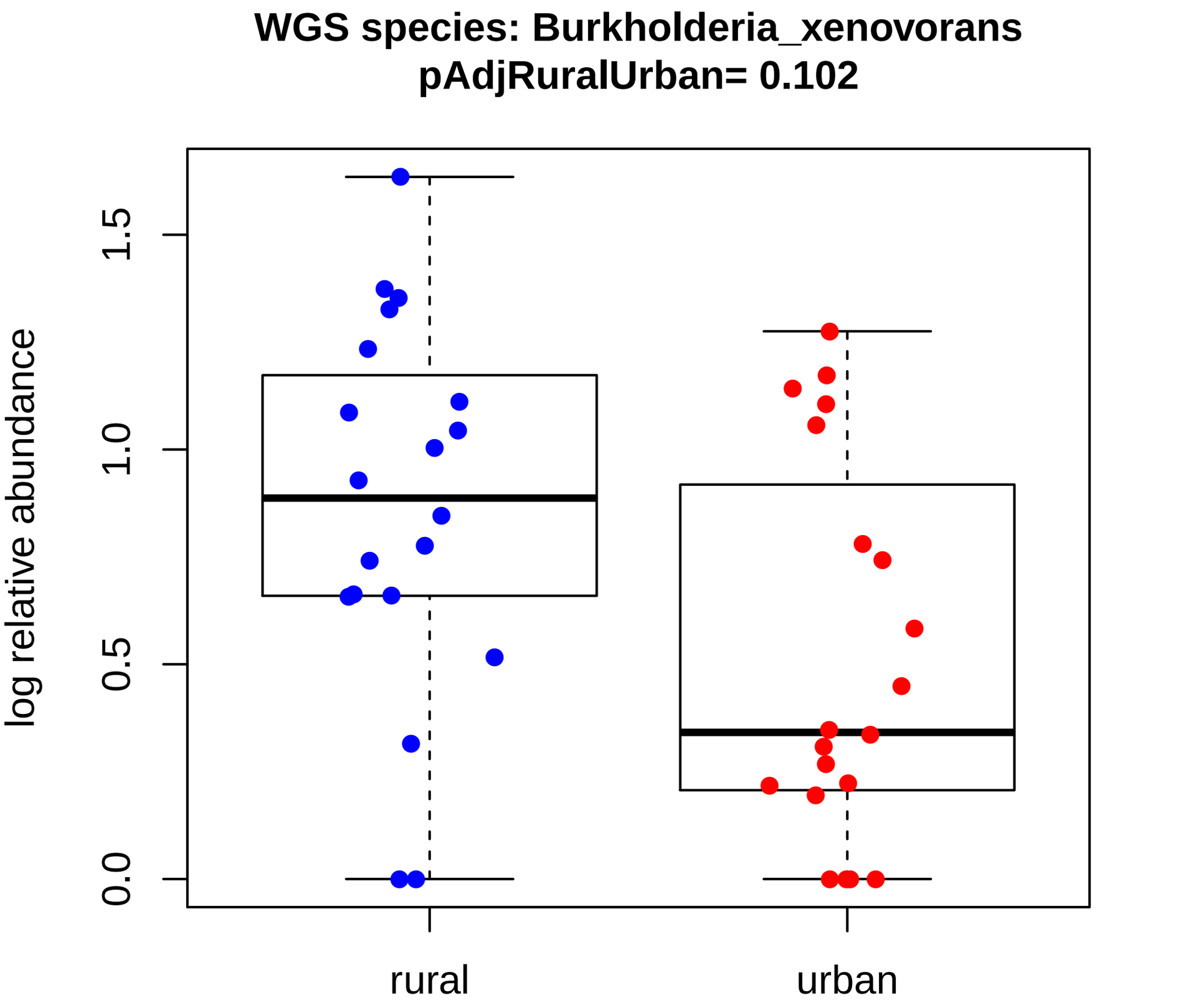

WGS species: Mycobacterium_avium
pAdjRuralUrban= 0.0995
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

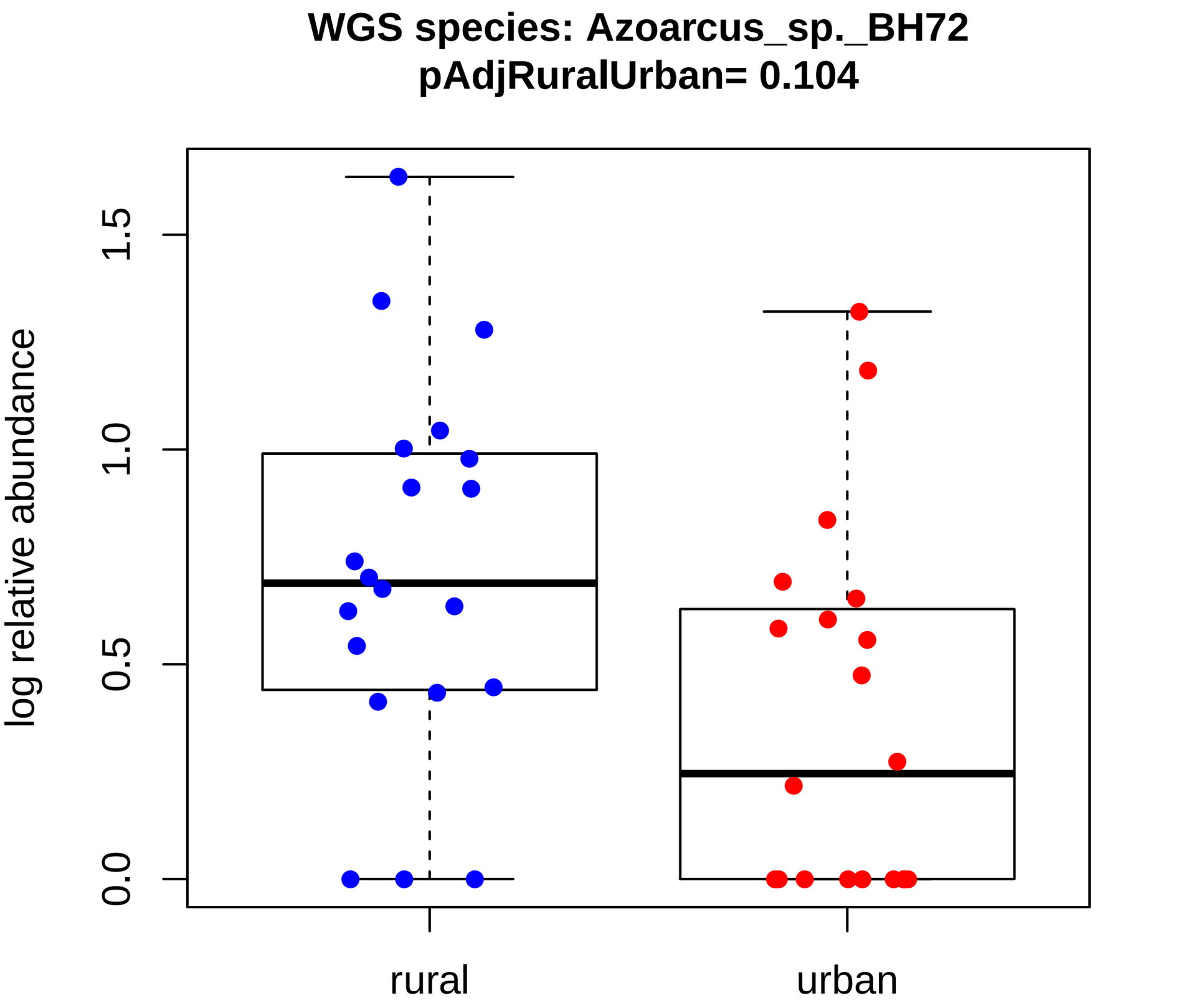

WGS species: Synechocystis_sp._PCC_6803
pAdjRuralUrban= 0.0995
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

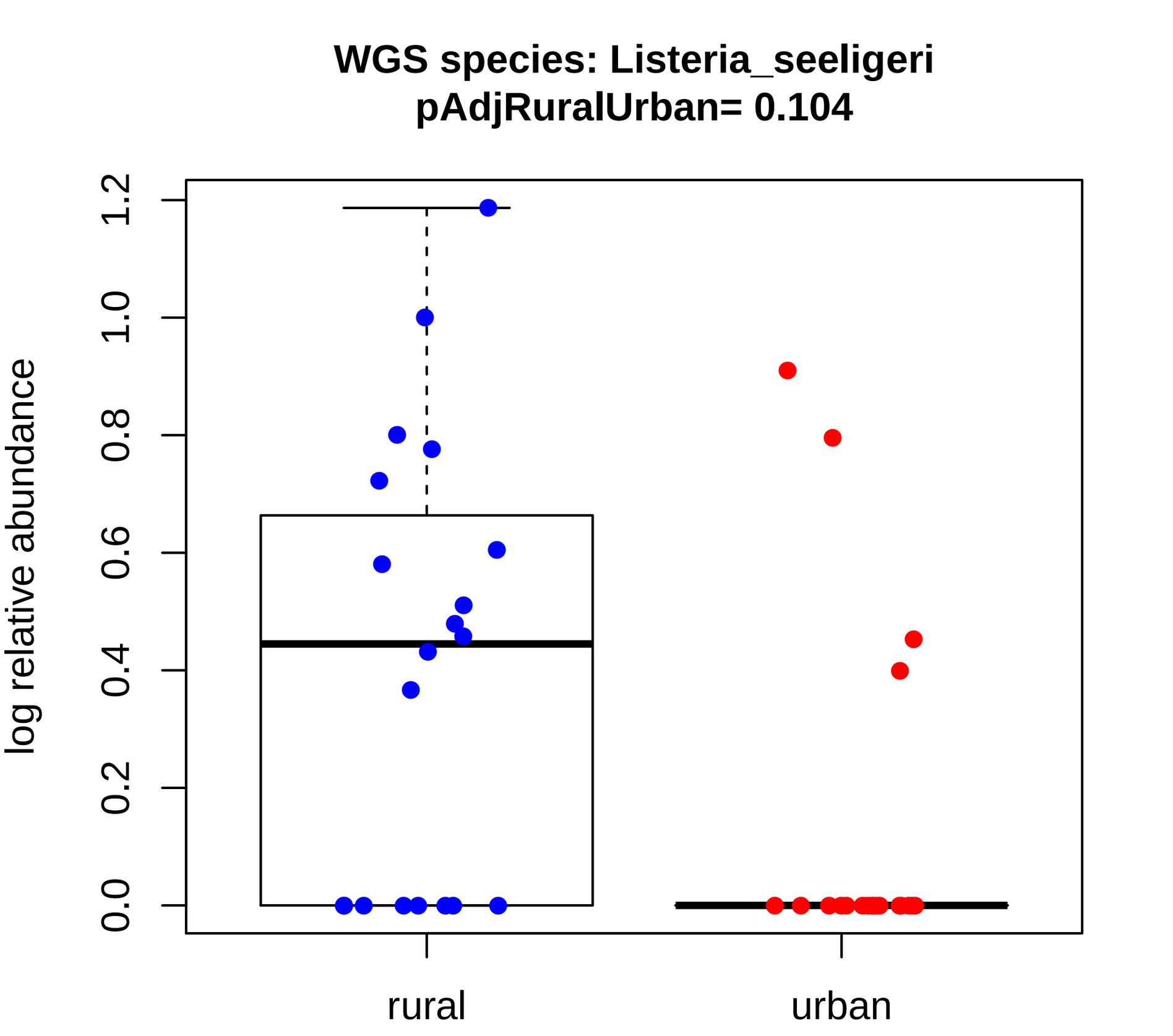

WGS species: Bartonella_clarridgeiae
pAdjRuralUrban= 0.0995
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

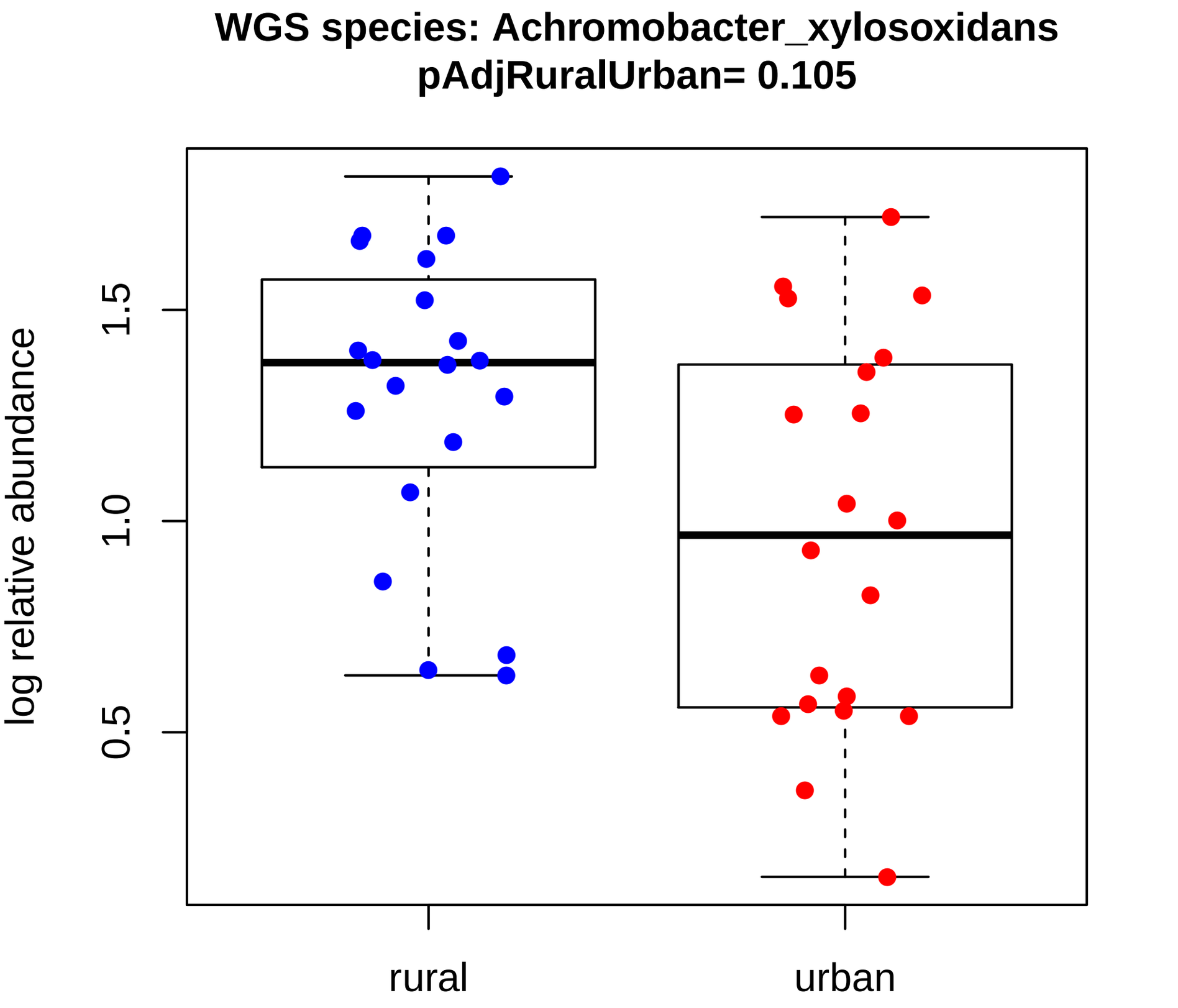

WGS species: Stenotrophomonas_maltophilia
pAdjRuralUrban= 0.1
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

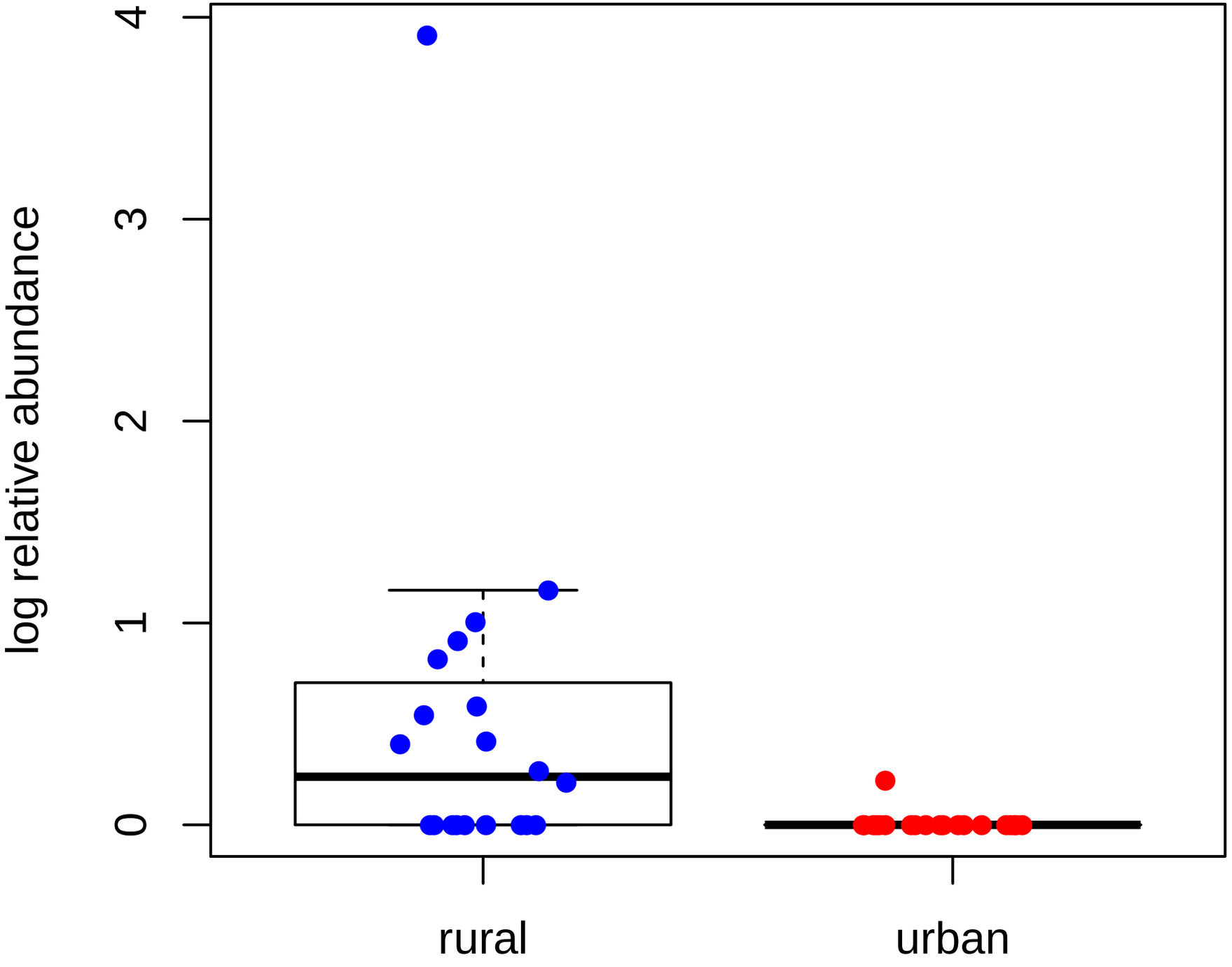

WGS species: Desulfosporosinus_orientis
pAdjRuralUrban= 0.1
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

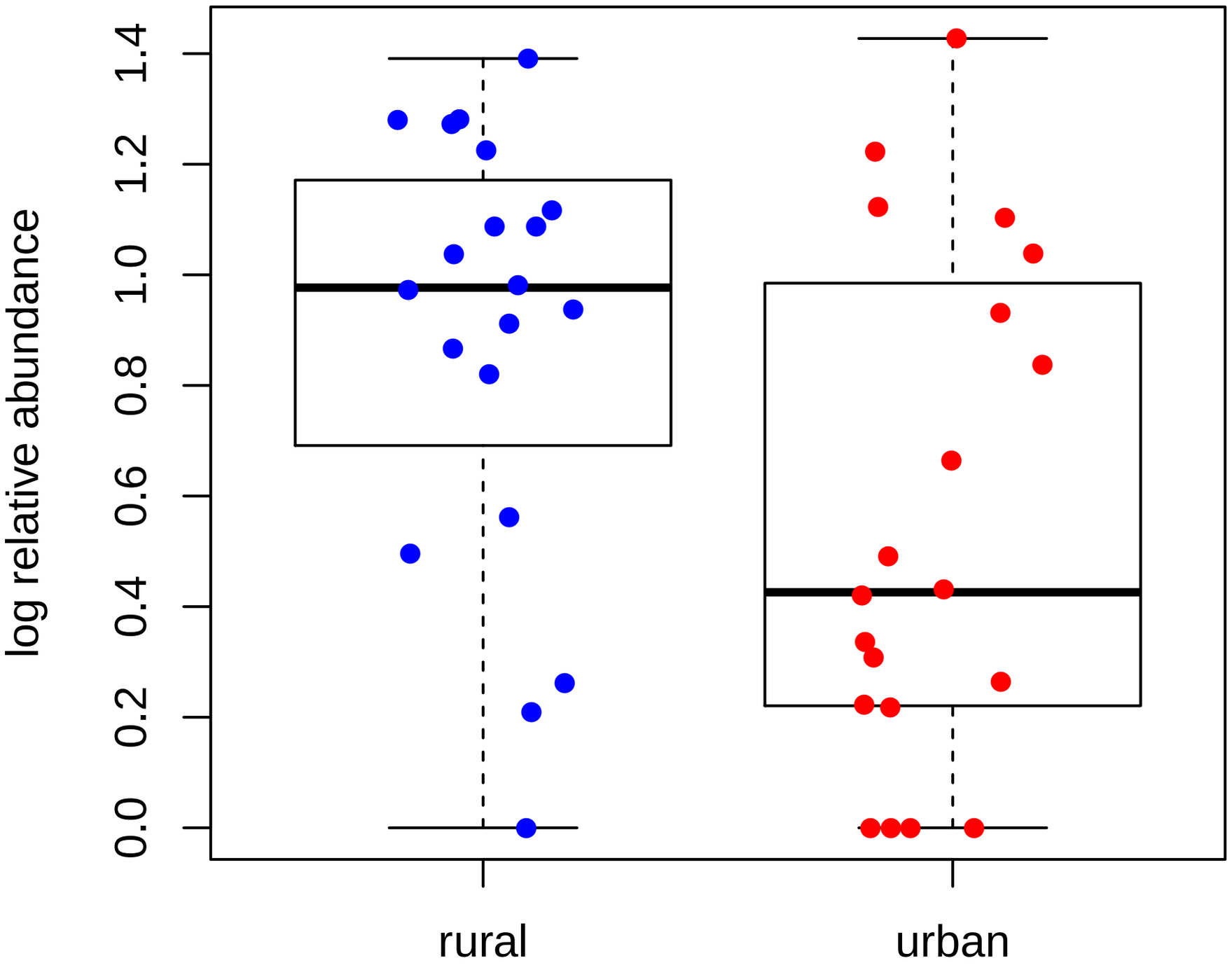

WGS species: Burkholderia_xenovorans
pAdjRuralUrban= 0.102
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

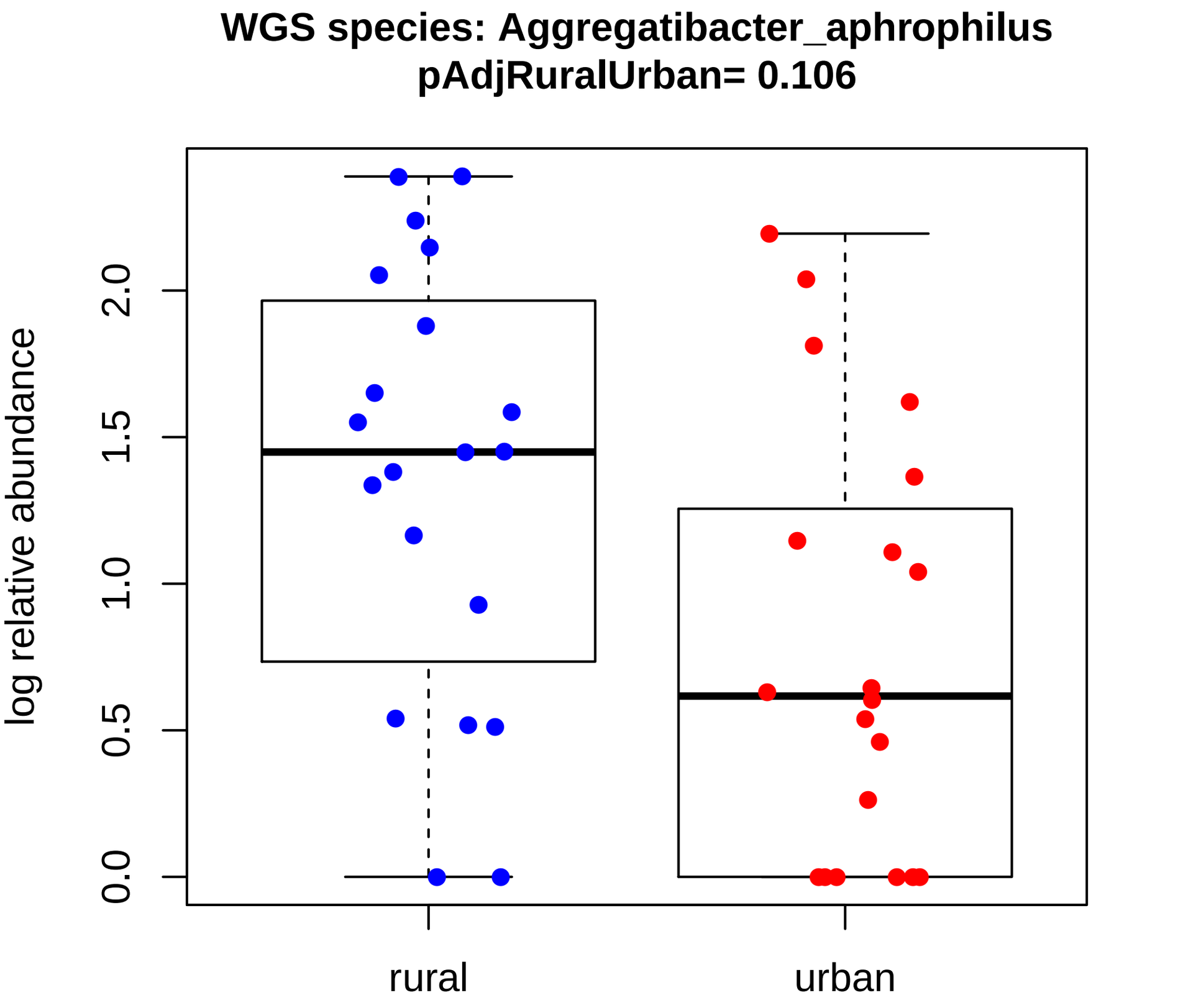

WGS species: Azoarcus_sp._BH72
pAdjRuralUrban= 0.104
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

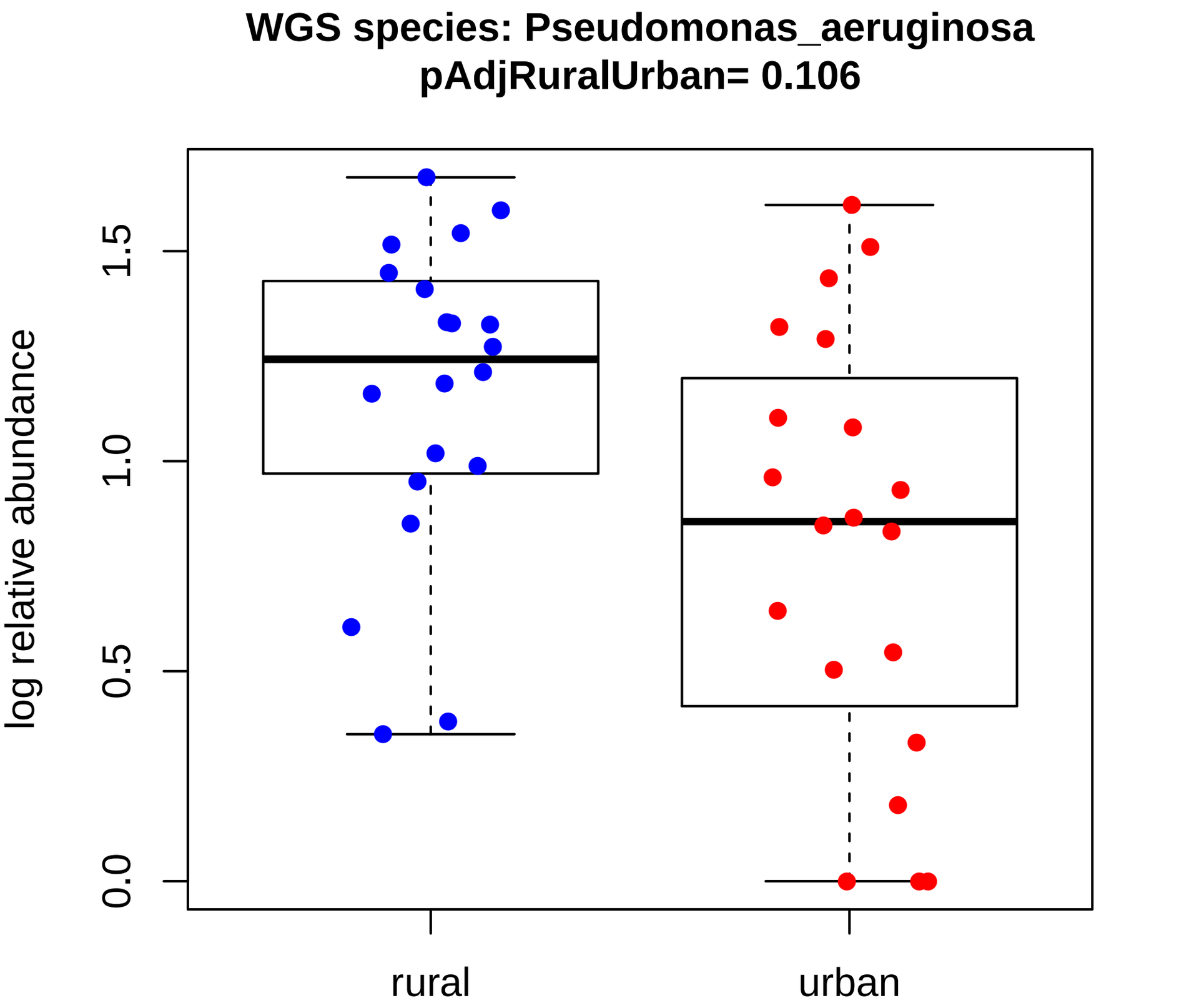

WGS species: Listeria_seeligeri
pAdjRuralUrban= 0.104
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

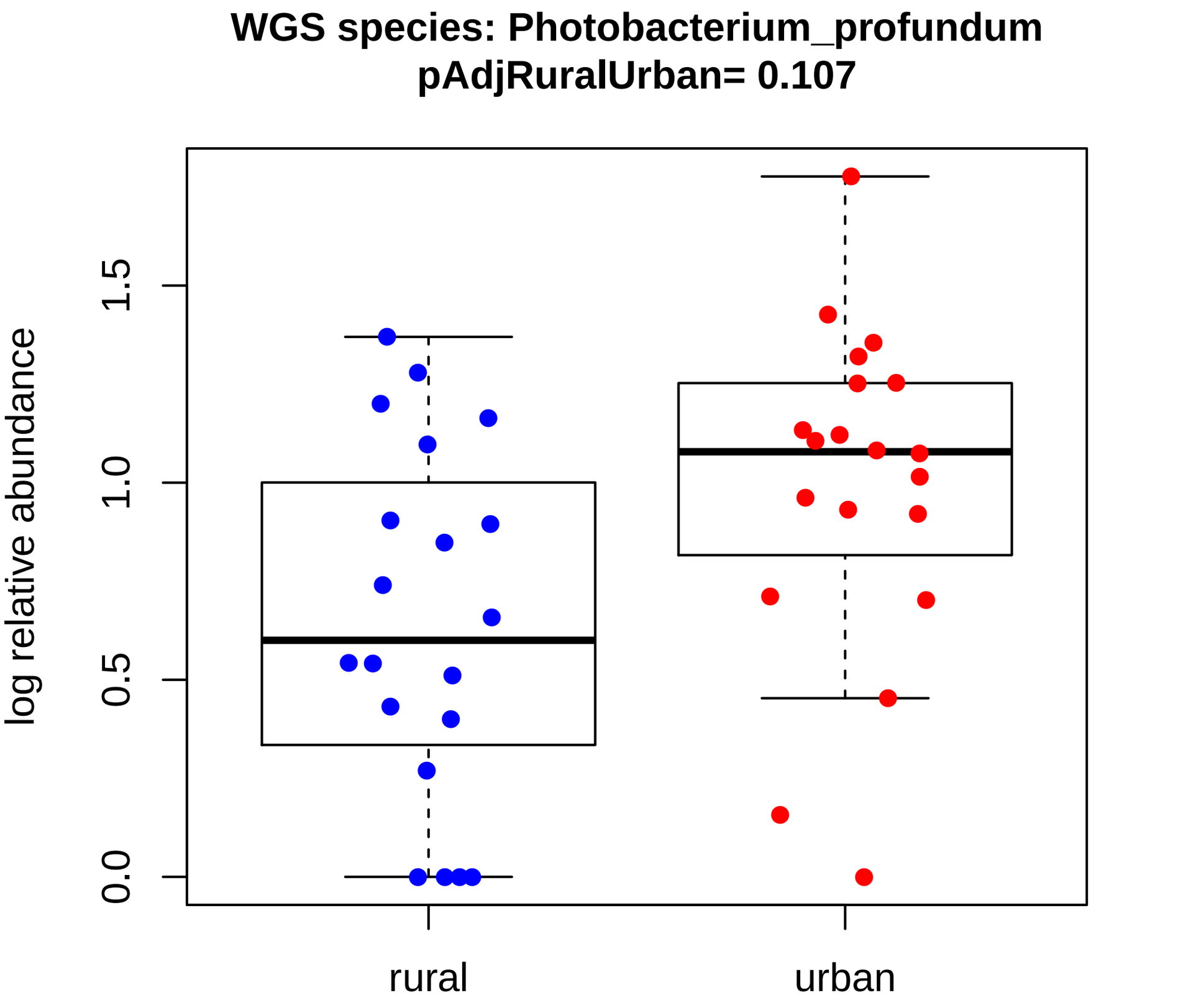

WGS species: Achromobacter_xylosoxidans
pAdjRuralUrban= 0.105
log relative abundance
0.5
1.0
1.5
rural
urban

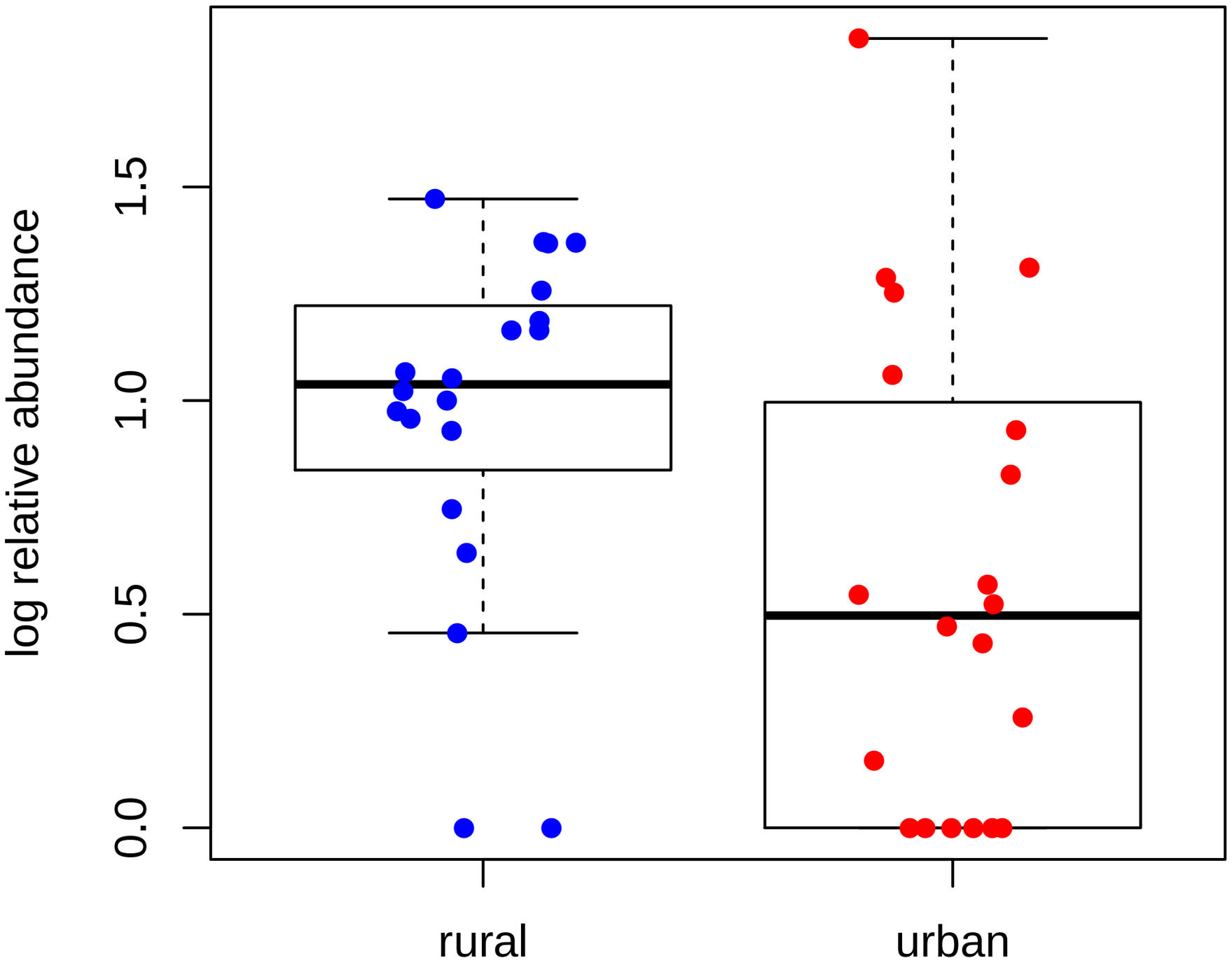

WGS species: Escherichia_phage_phAPEC8
pAdjRuralUrban= 0.106
log relative abundance
0
1
2
3
4
rural
urban

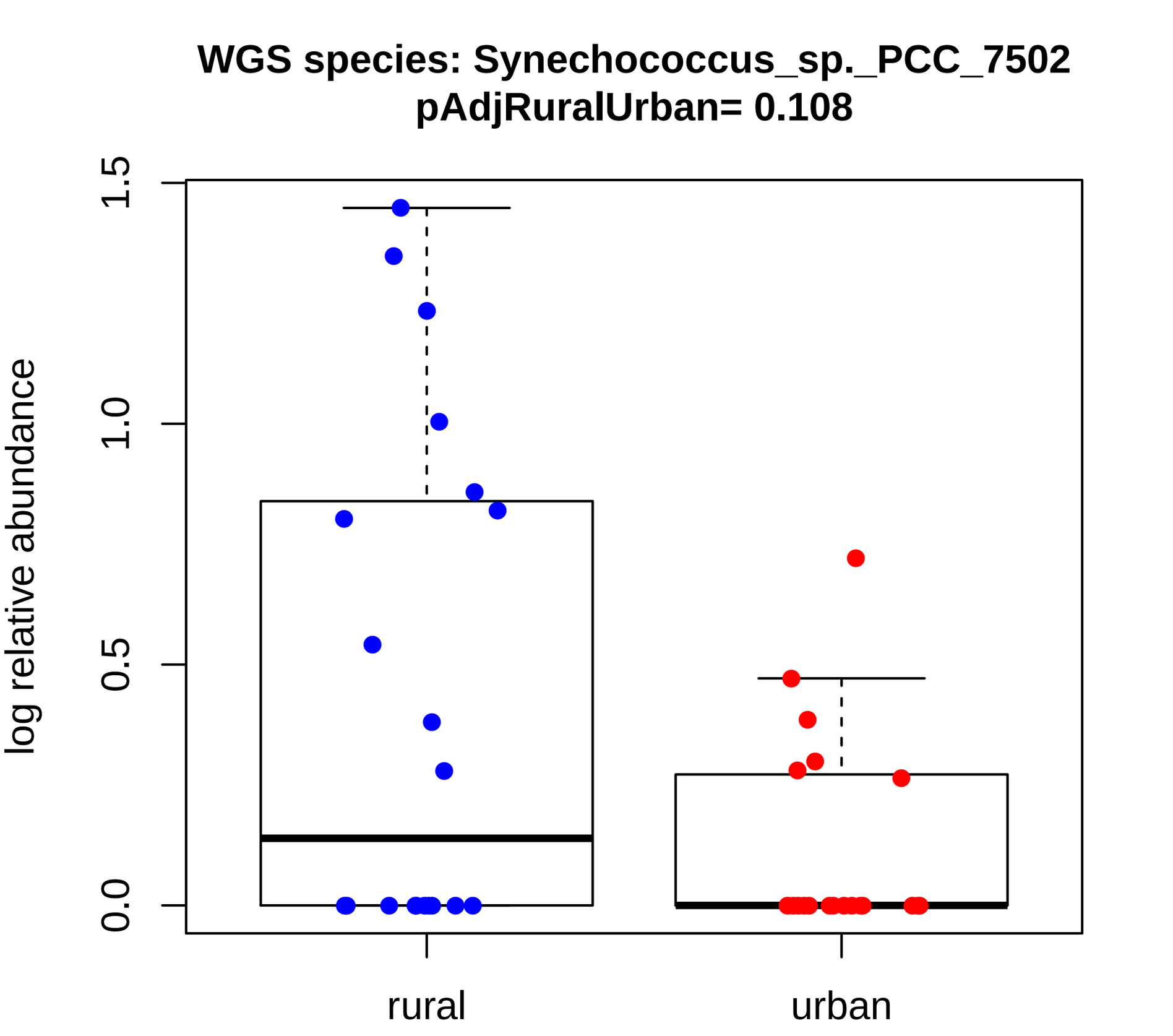

WGS species: Corynebacterium_jeikeium
pAdjRuralUrban= 0.106
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

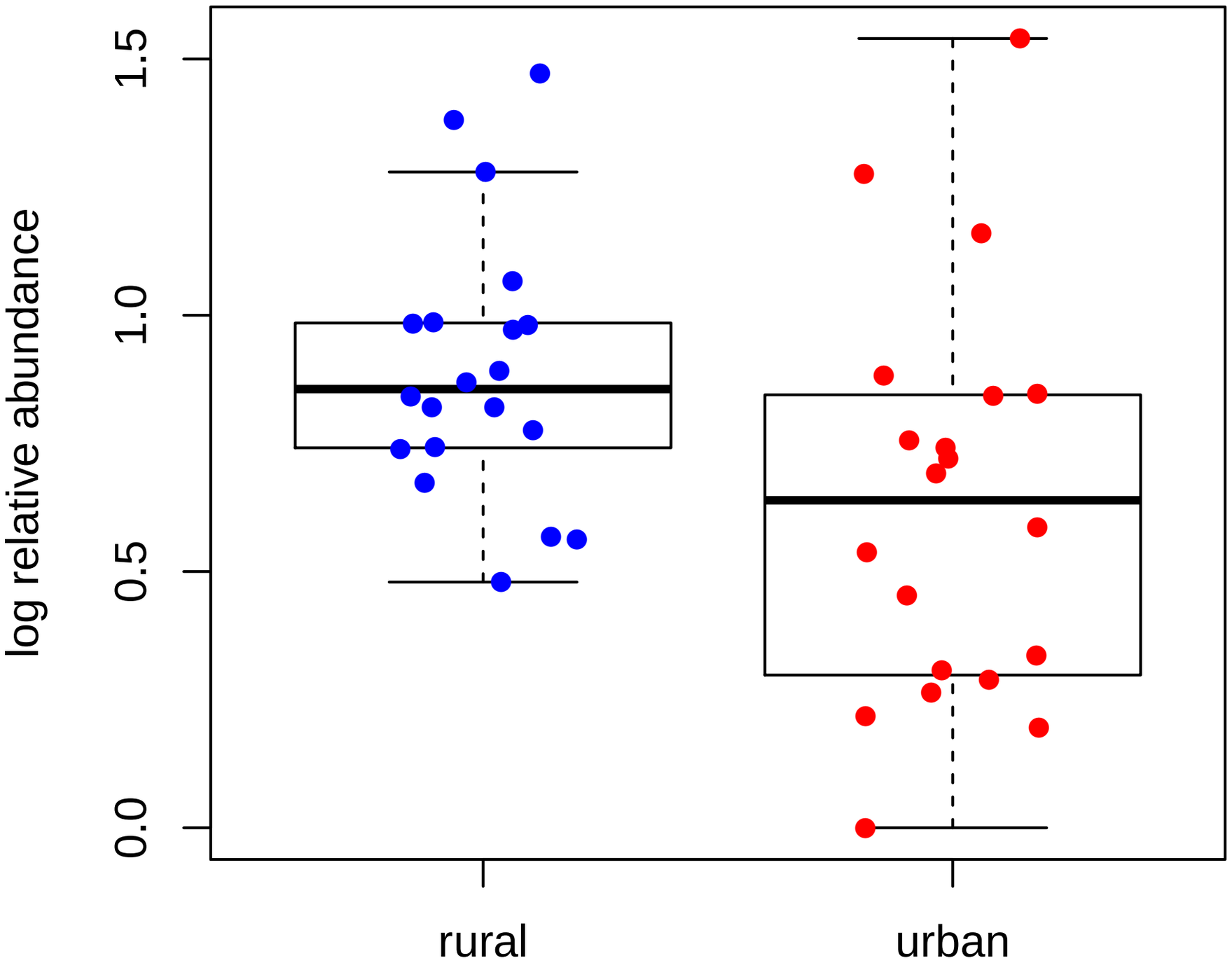

WGS species: Aggregatibacter_aphrophilus
pAdjRuralUrban= 0.106
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

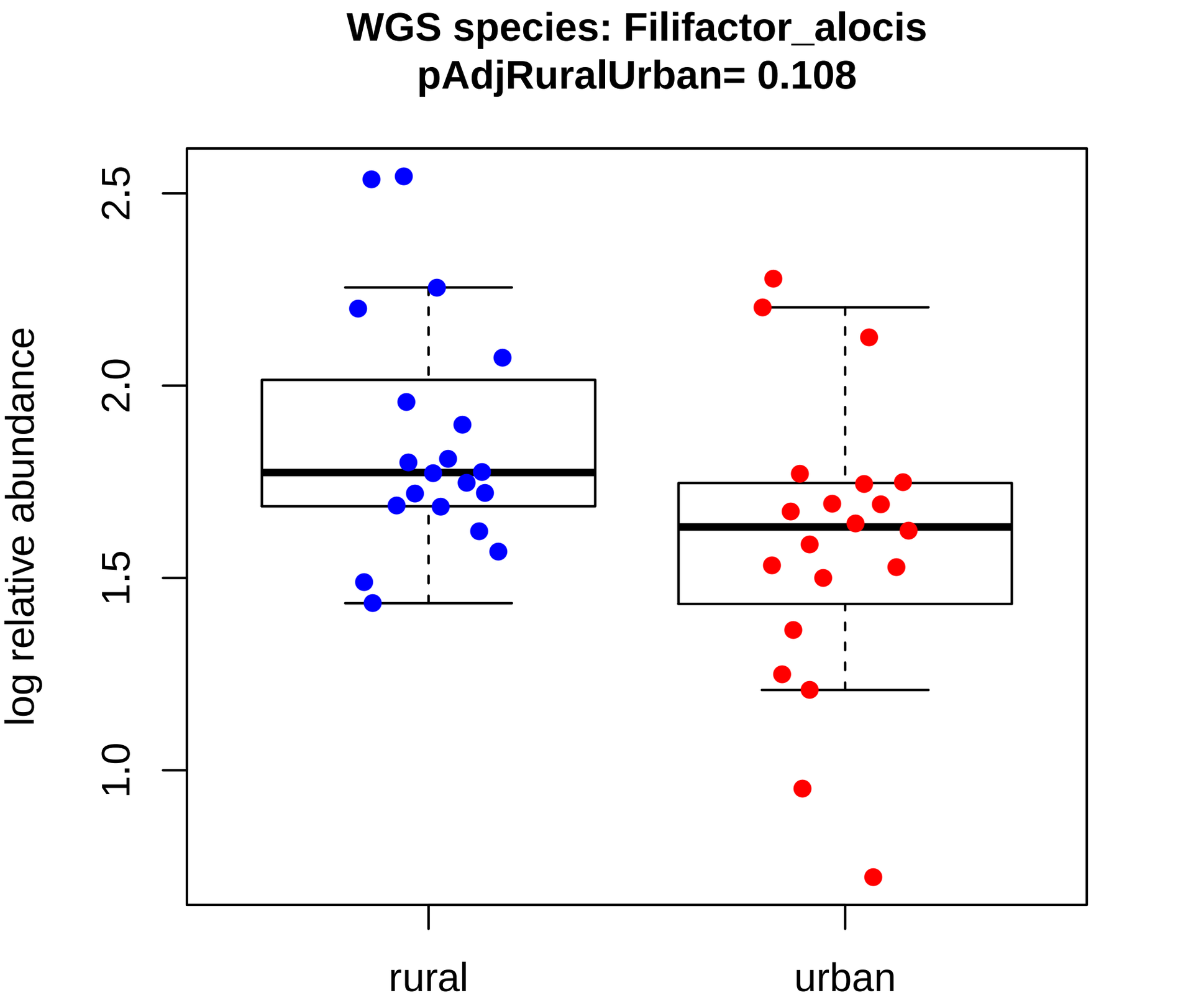

WGS species: Pseudomonas_aeruginosa
pAdjRuralUrban= 0.106
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

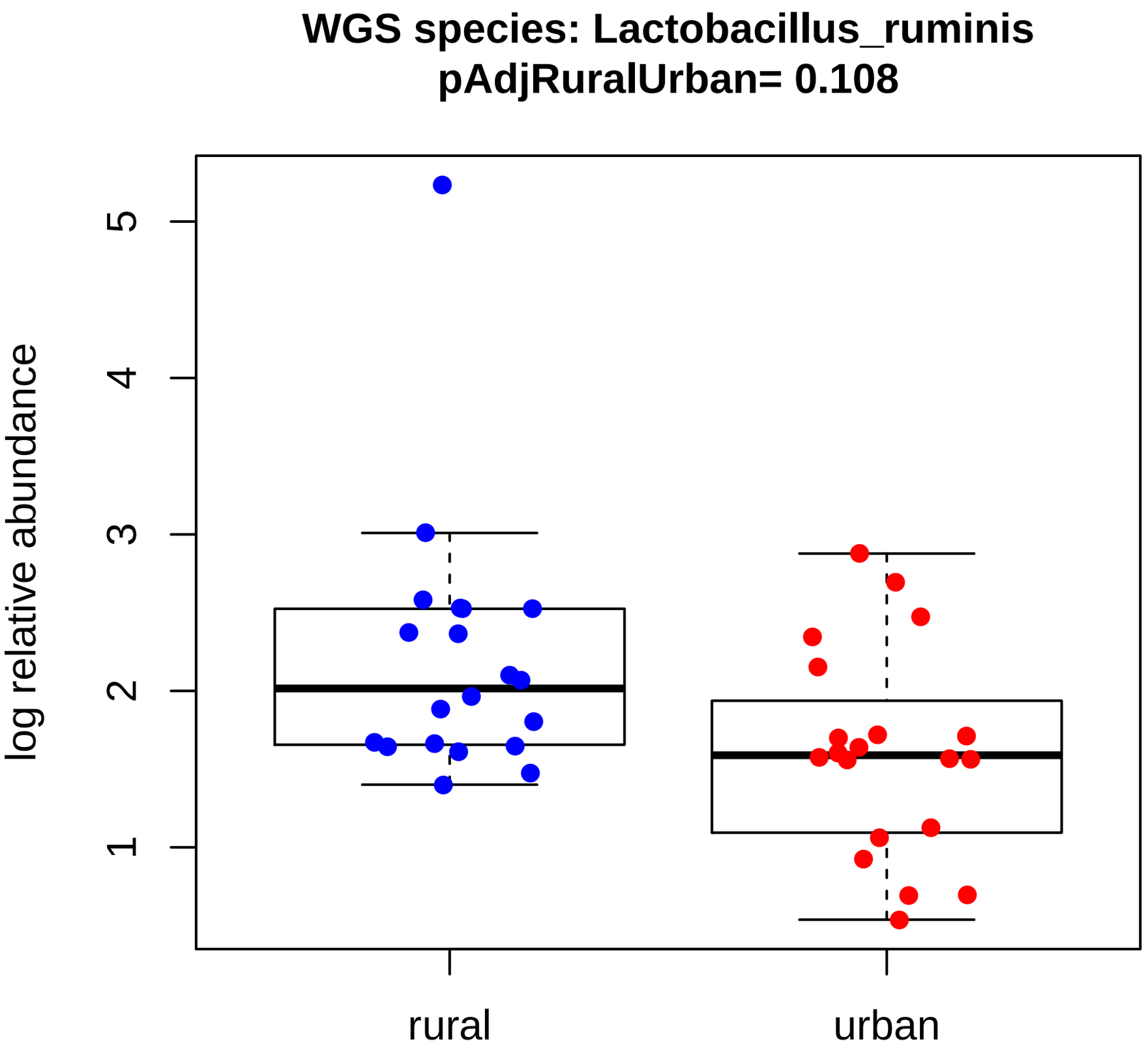

WGS species: Photobacterium_profundum
pAdjRuralUrban= 0.107
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

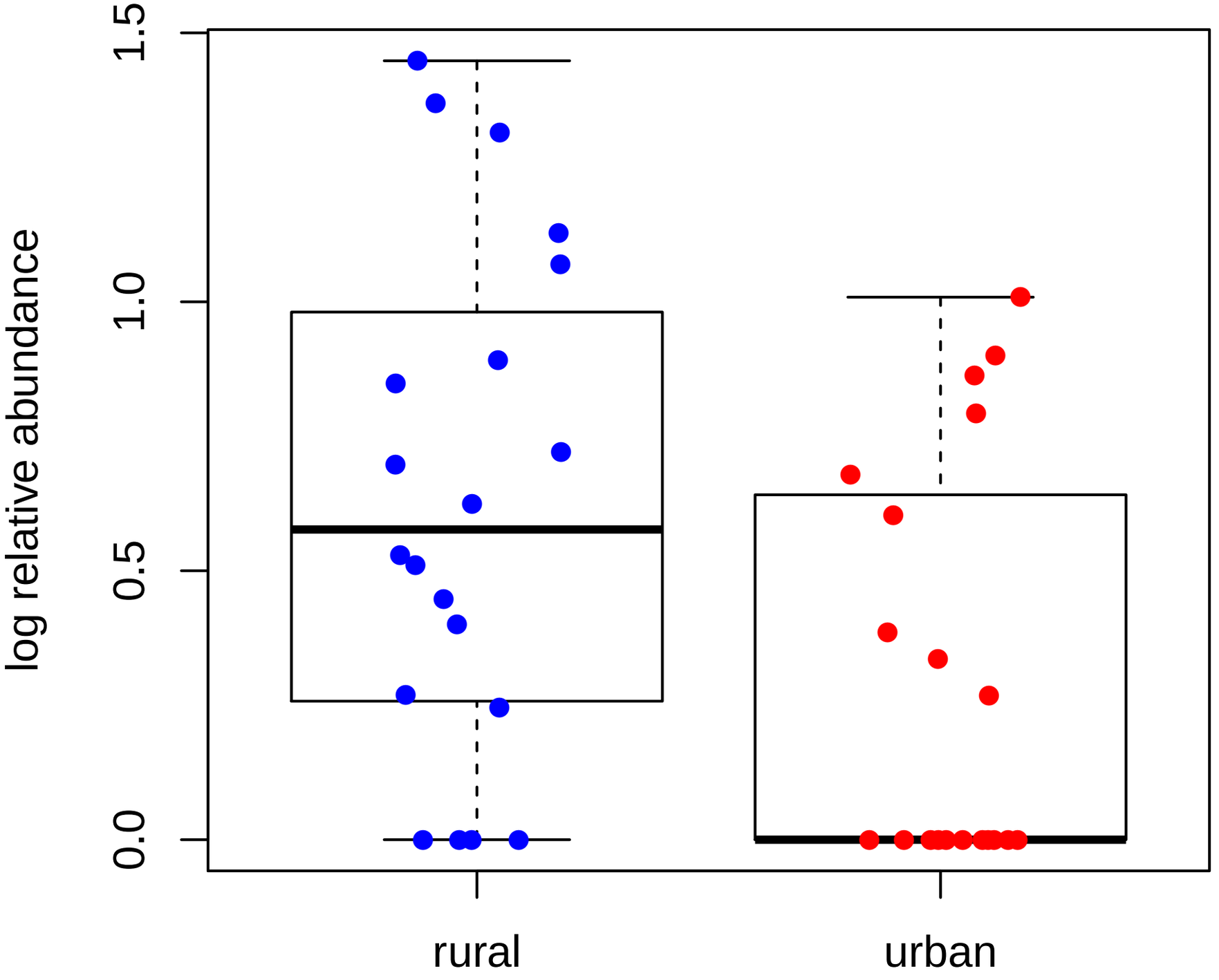

WGS species: Corallococcus_coralloides
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

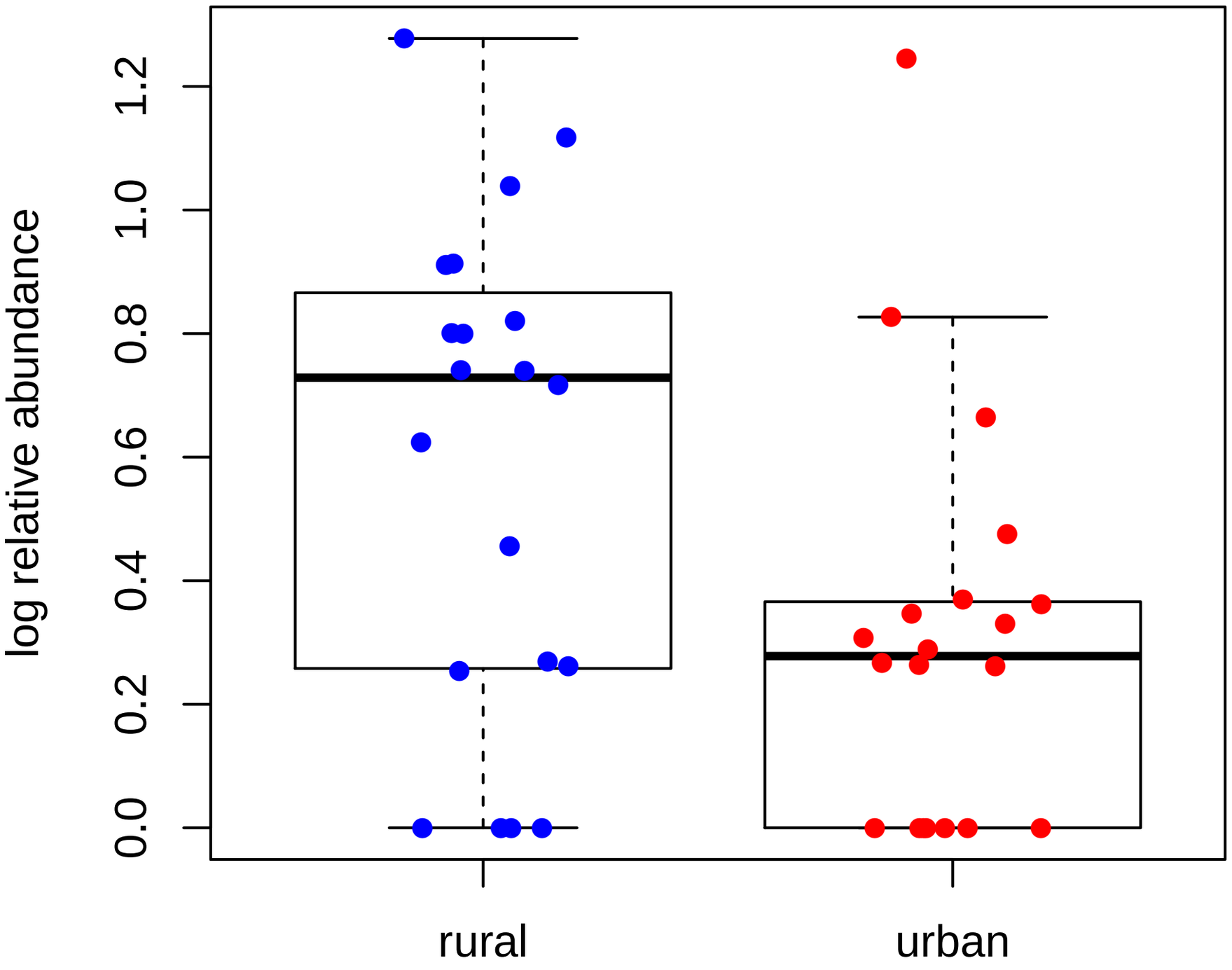

WGS species: Synechococcus_sp._PCC_7502
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

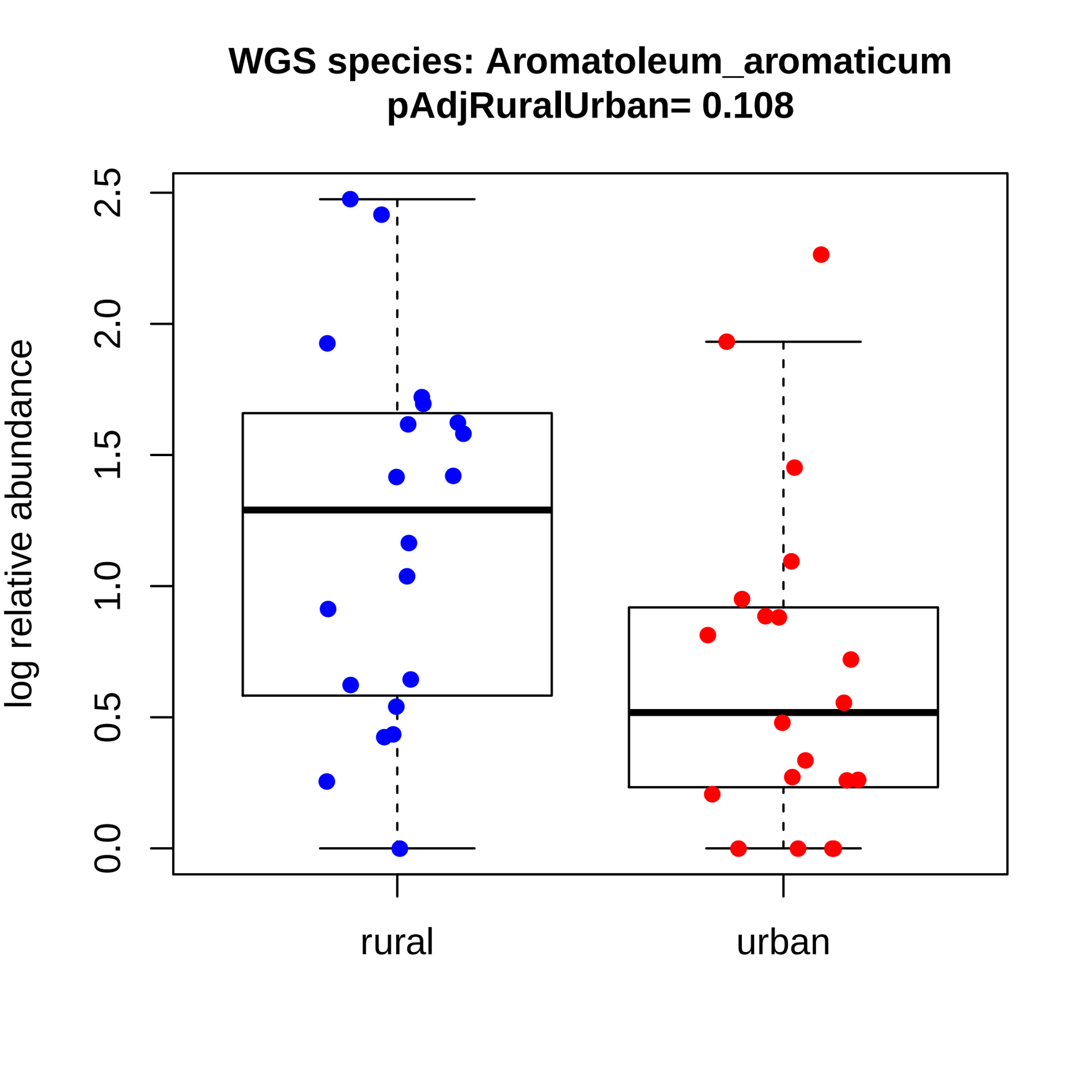

WGS species: Sebaldella_termitidis
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

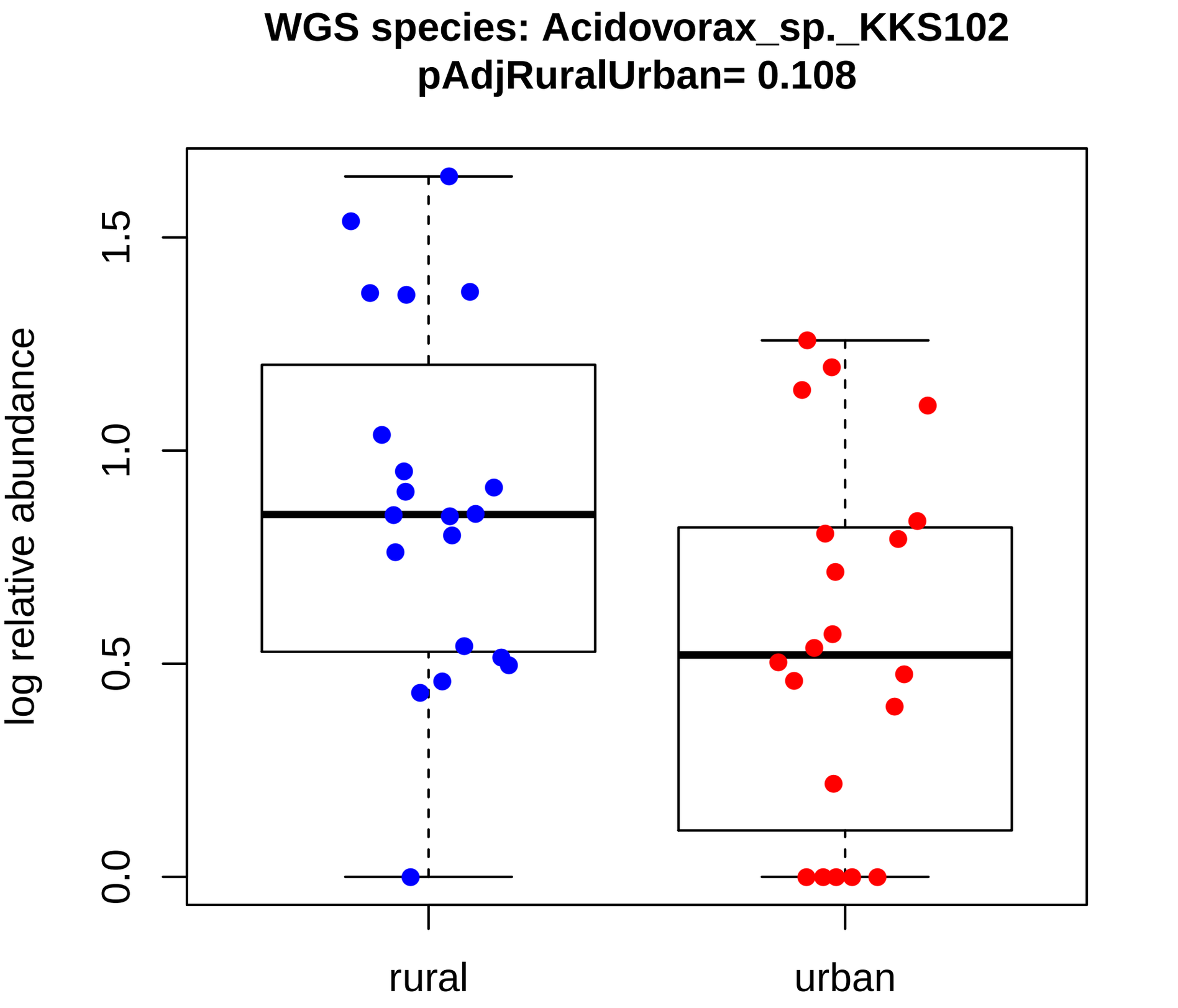

WGS species: Filifactor_alocis
pAdjRuralUrban= 0.108
log relative abundance
2.5
2.0
1.5
1.0
rural
urban

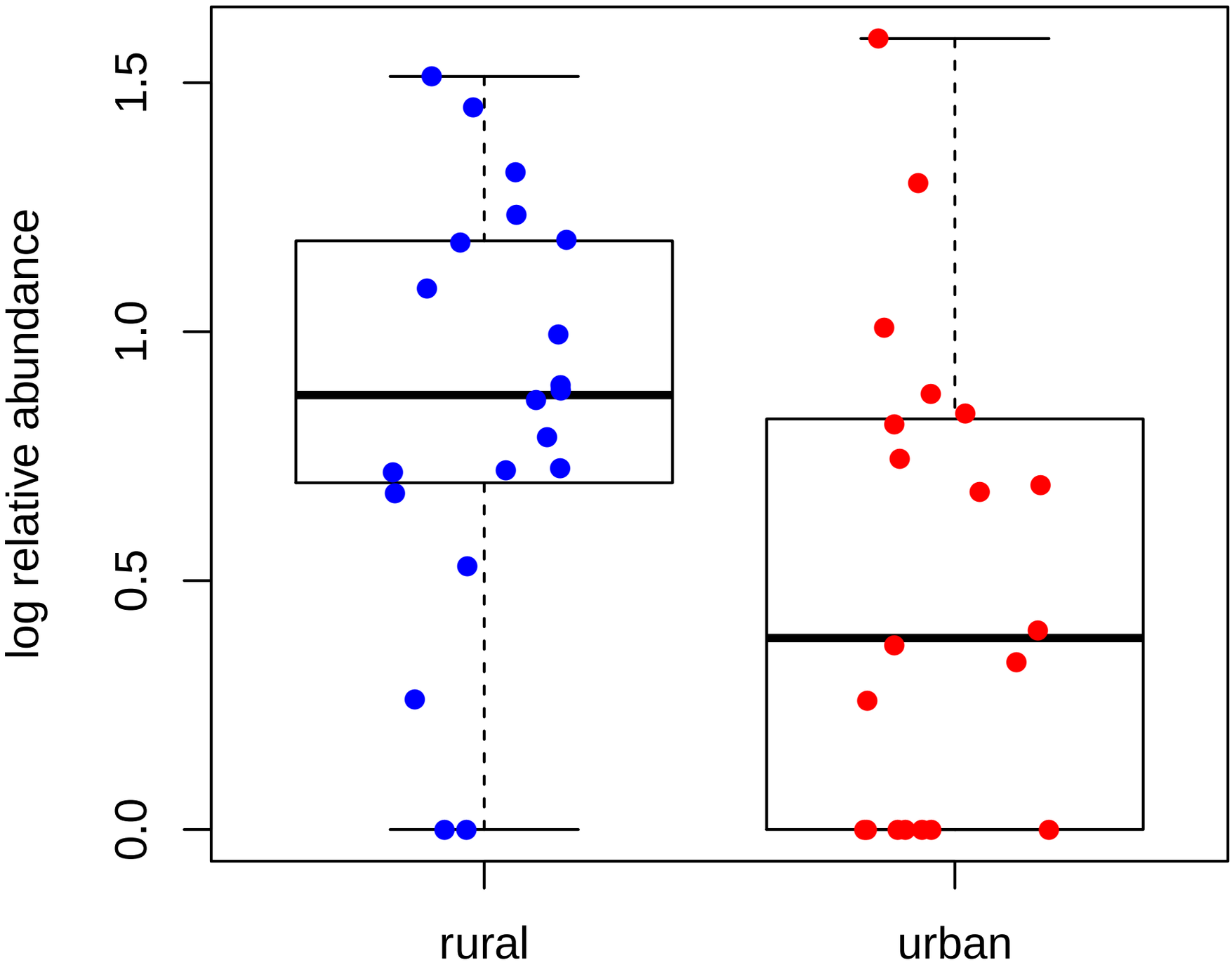

WGS species: Lactobacillus_ruminis
pAdjRuralUrban= 0.108
log relative abundance
1
2
3
4
5
rural
urban

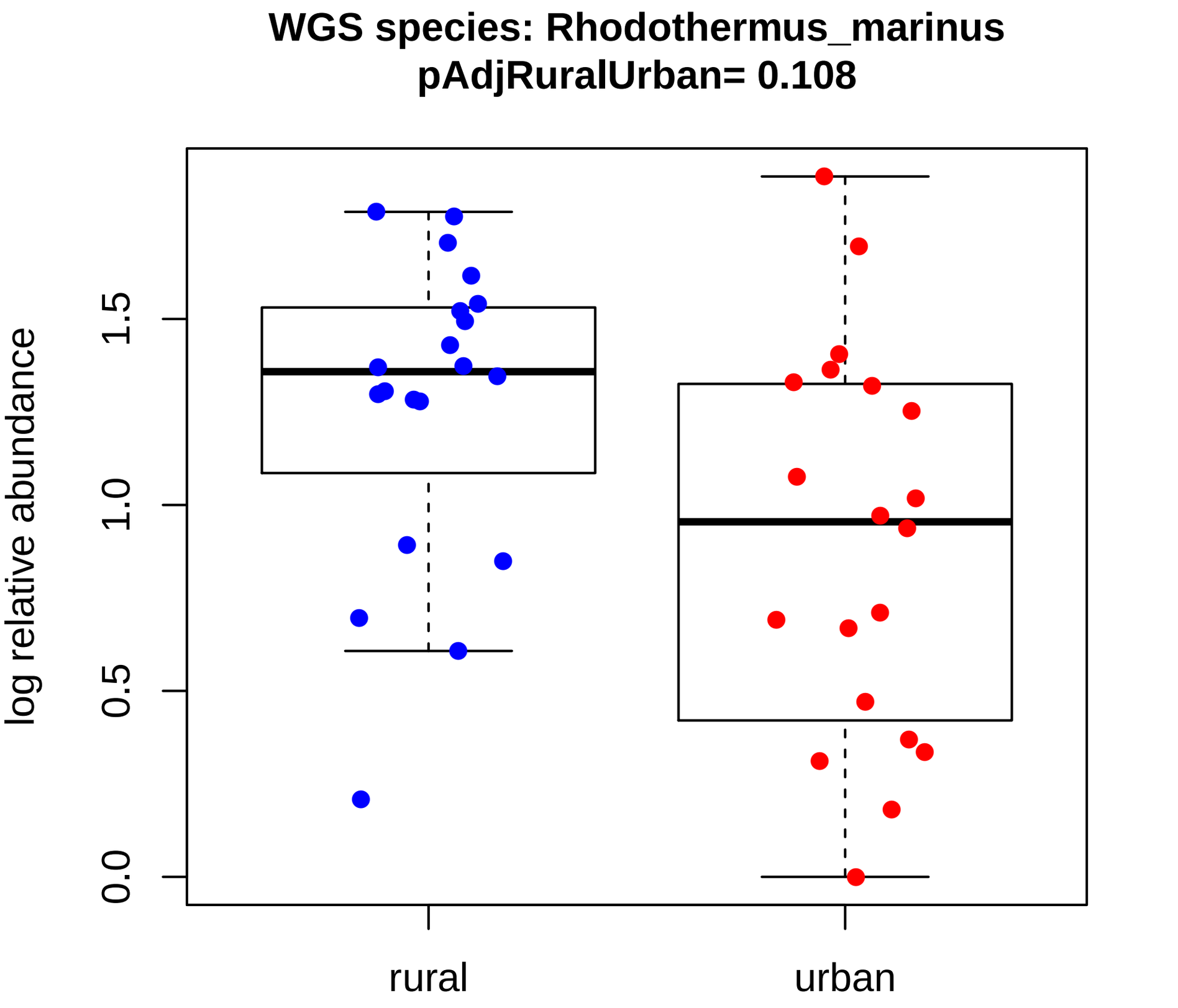

WGS species: Candidatus_Accumulibacter_phosphatis
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

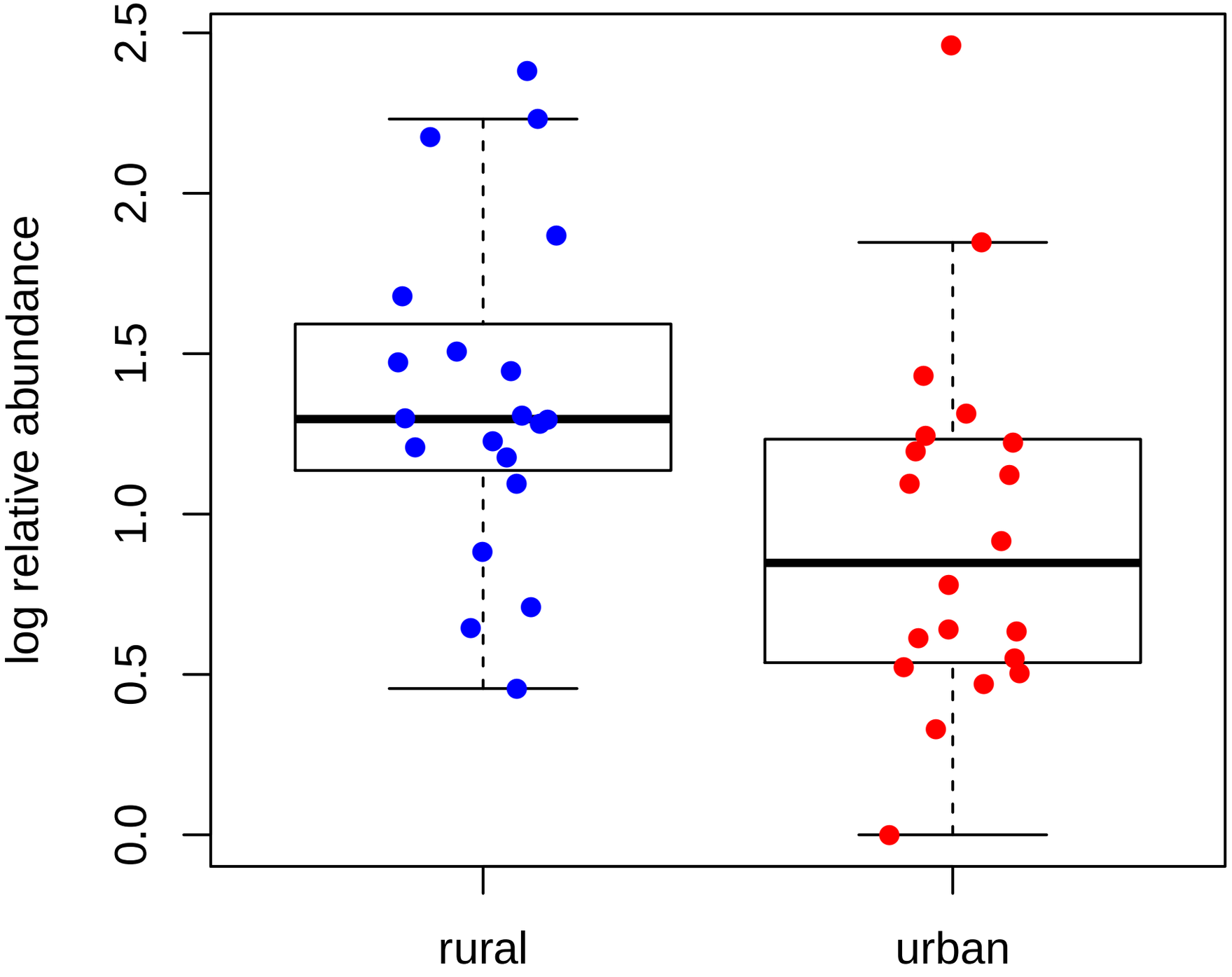

WGS species: Saccharothrix_espanaensis
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

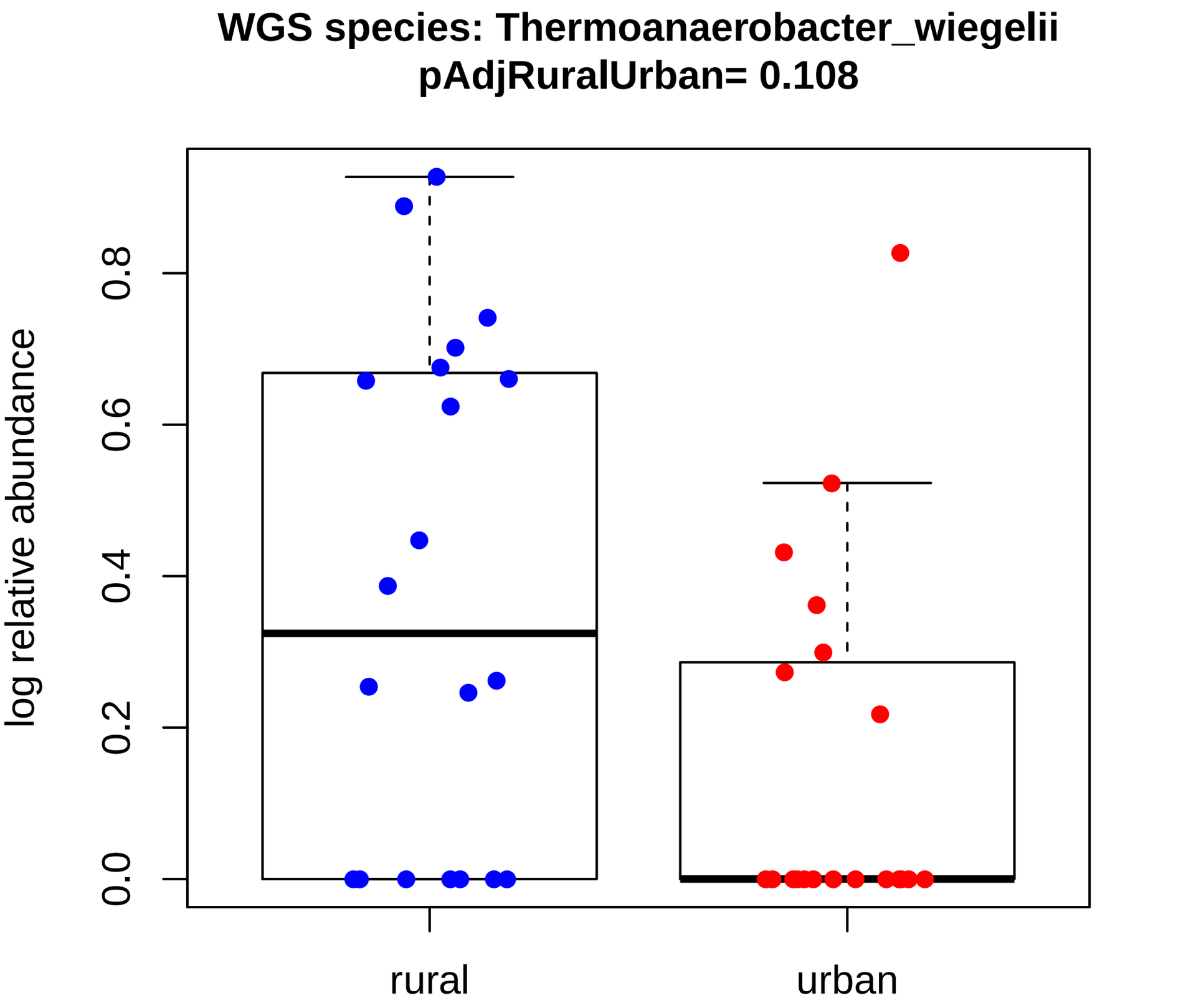

WGS species: Aromatoleum_aromaticum
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

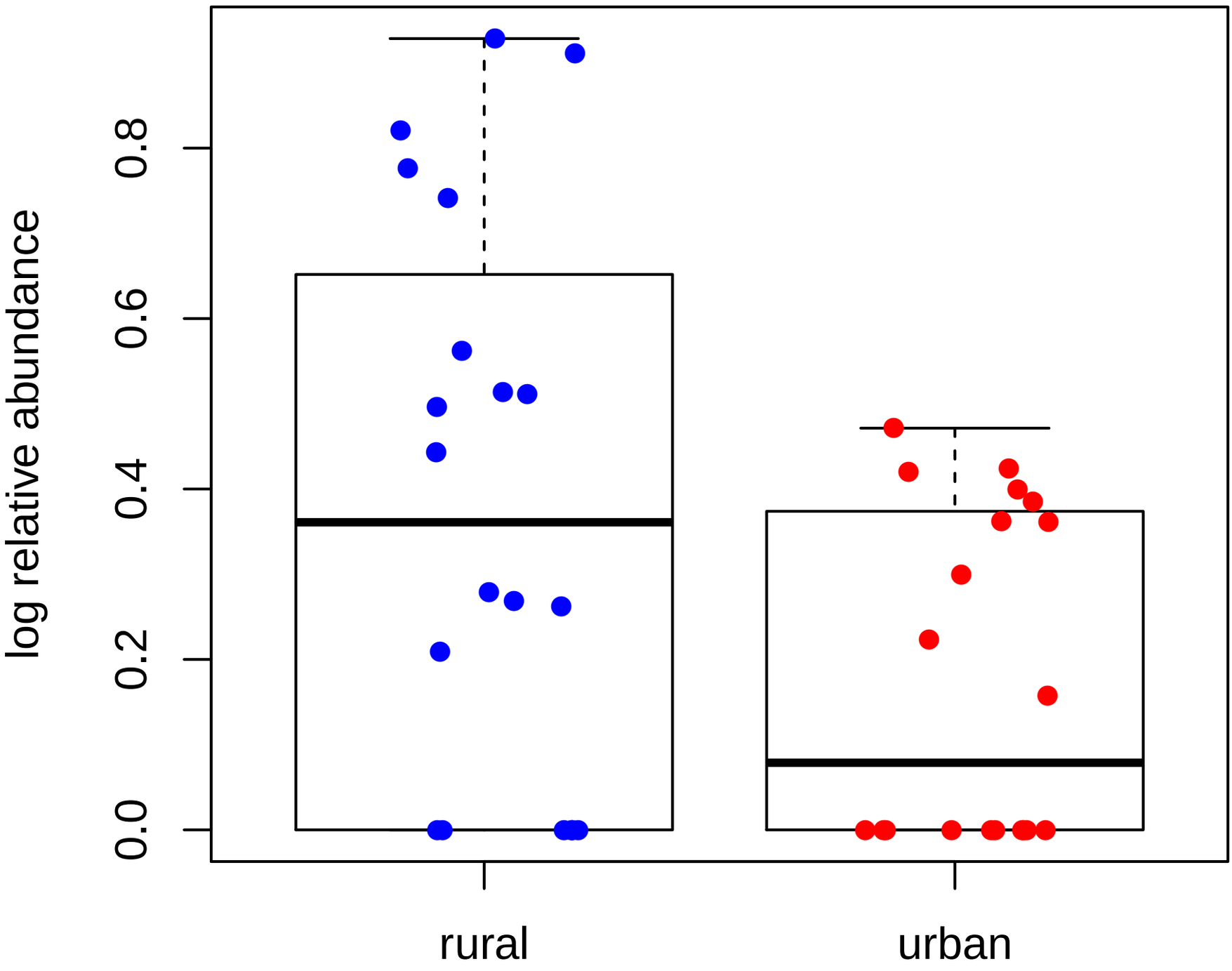

WGS species: Acidovorax_sp._KKS102
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

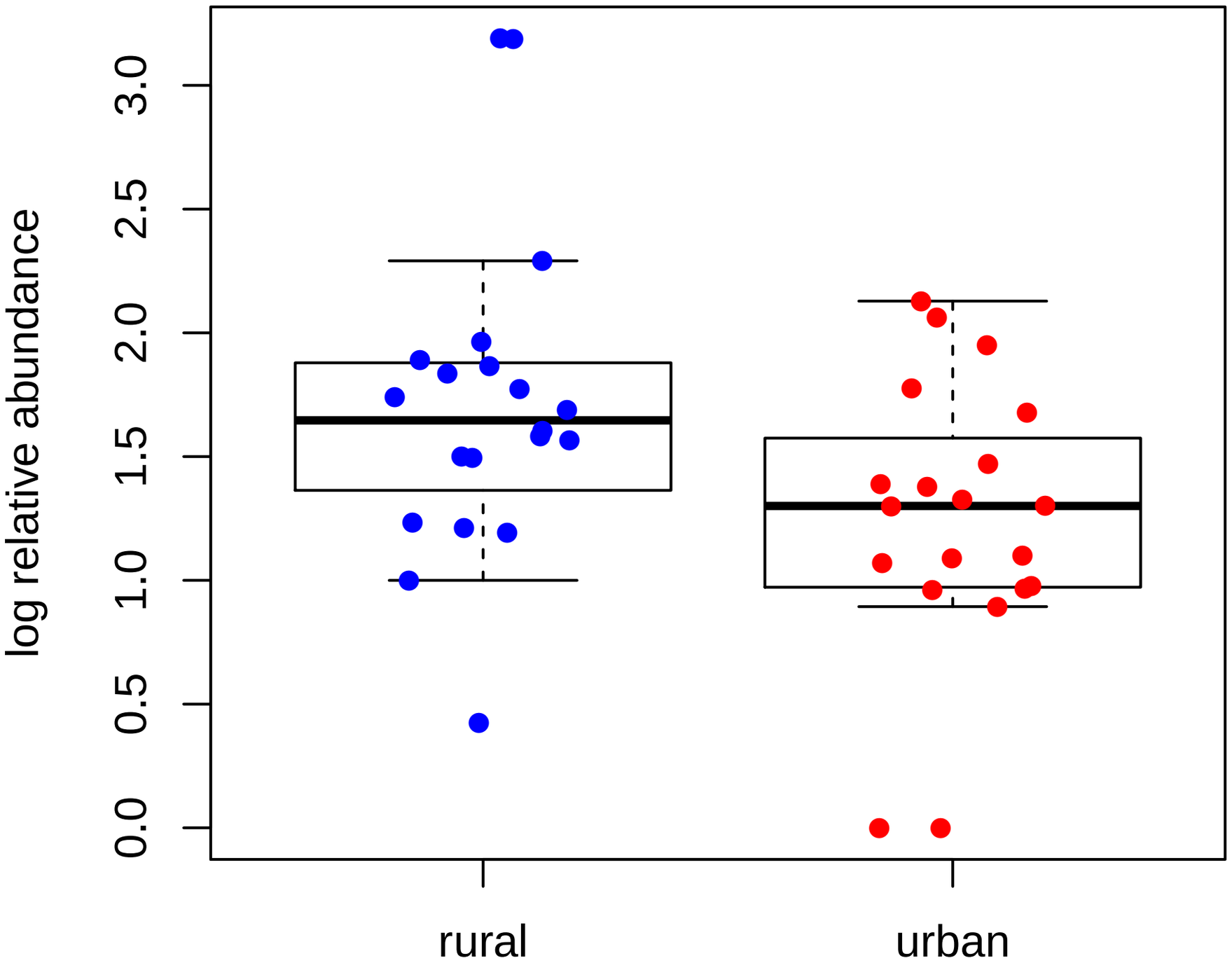

WGS species: Bordetella_petrii
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

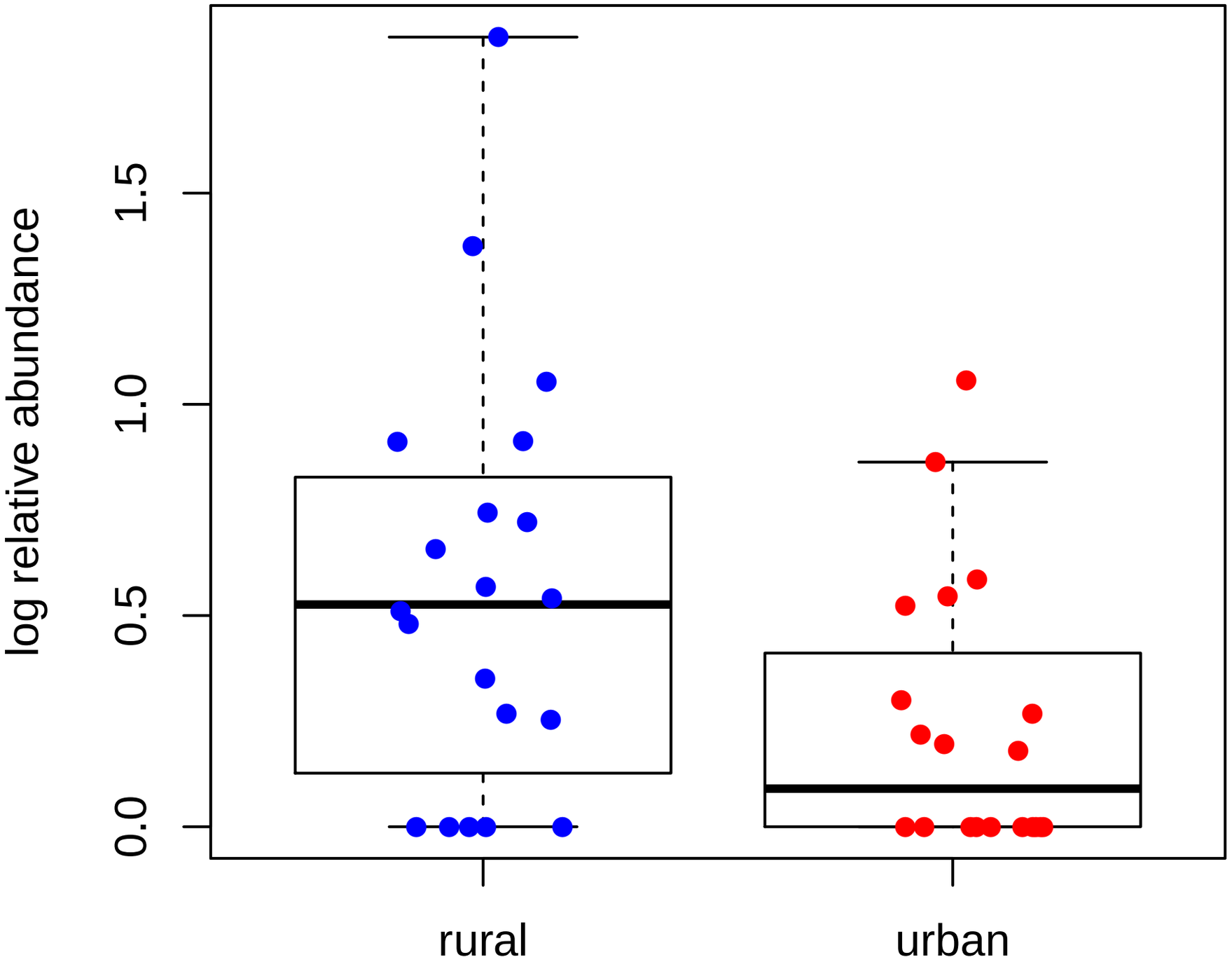

WGS species: Rhodothermus_marinus
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

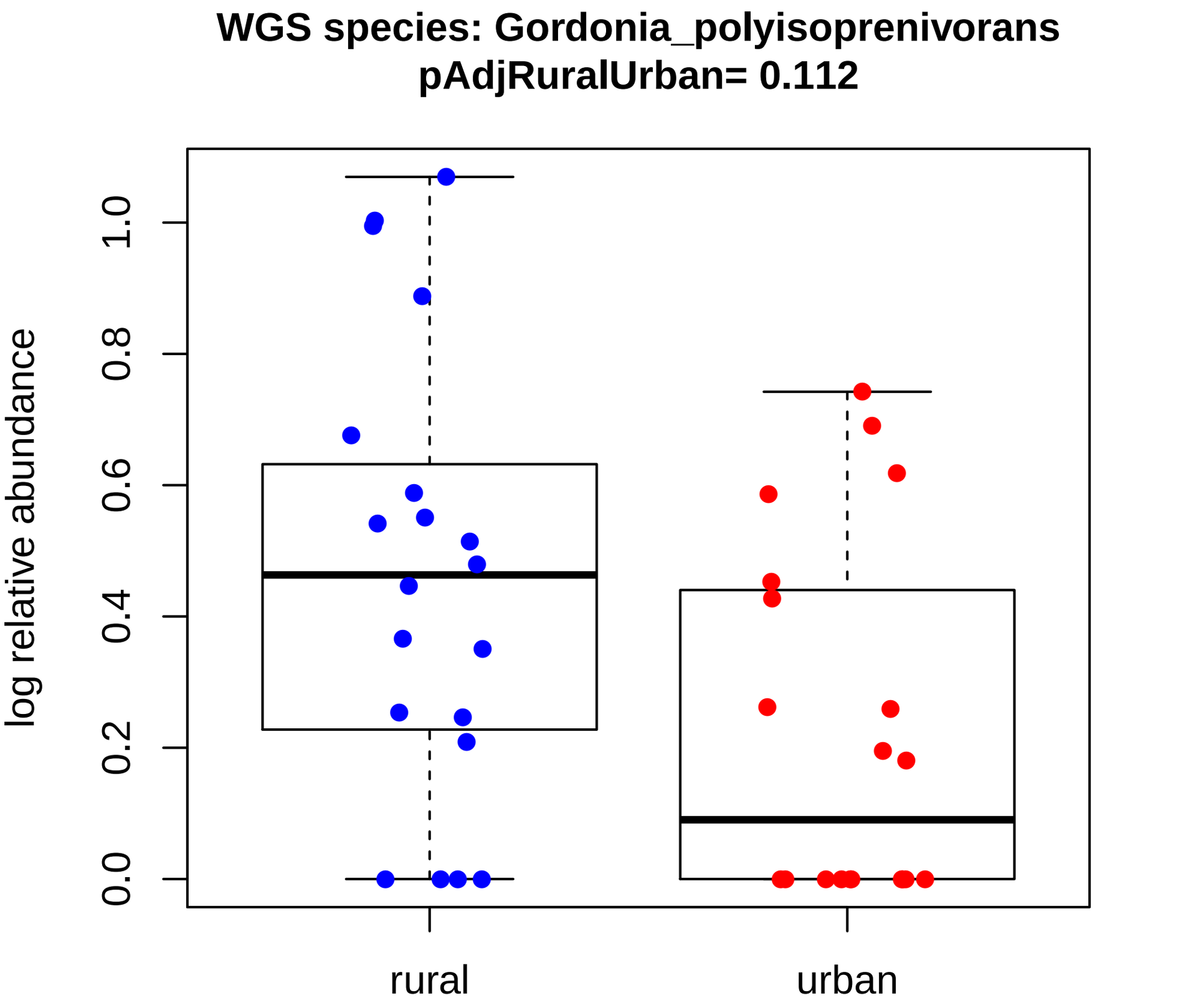

WGS species: Aeromonas_hydrophila
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

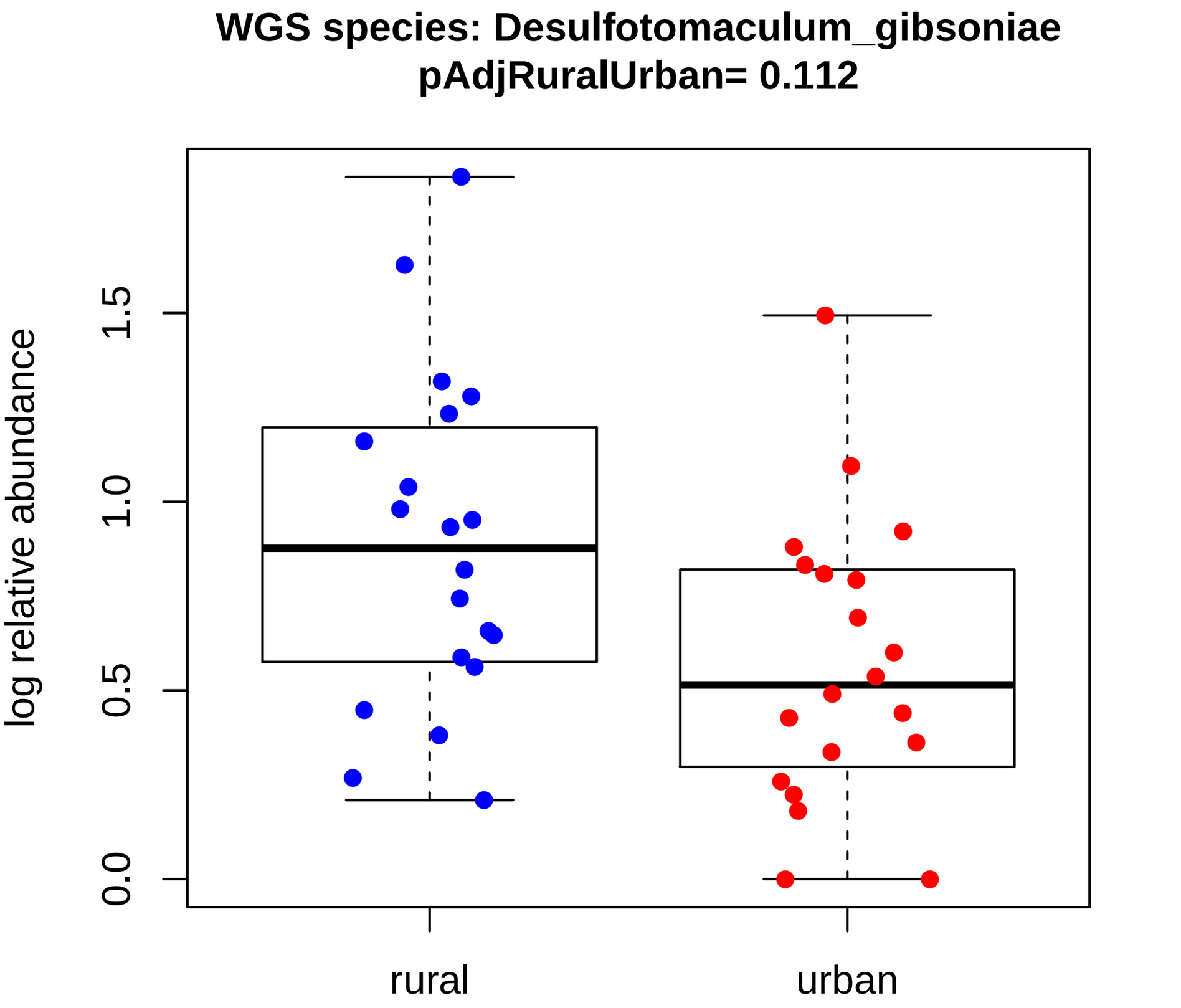

WGS species: Thermoanaerobacter_wiegelii
pAdjRuralUrban= 0.108
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

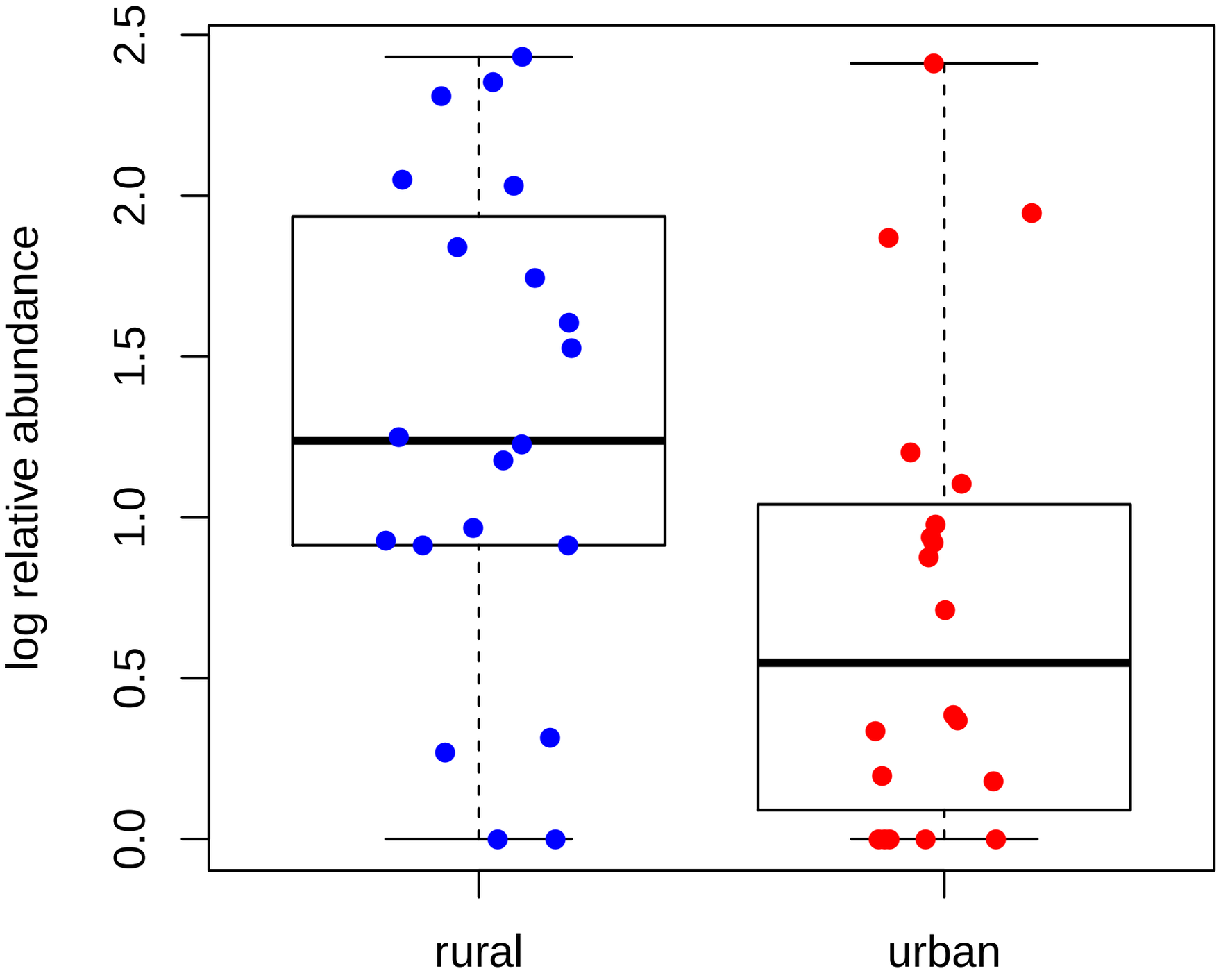

WGS species: Nostoc_punctiforme
pAdjRuralUrban= 0.109
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

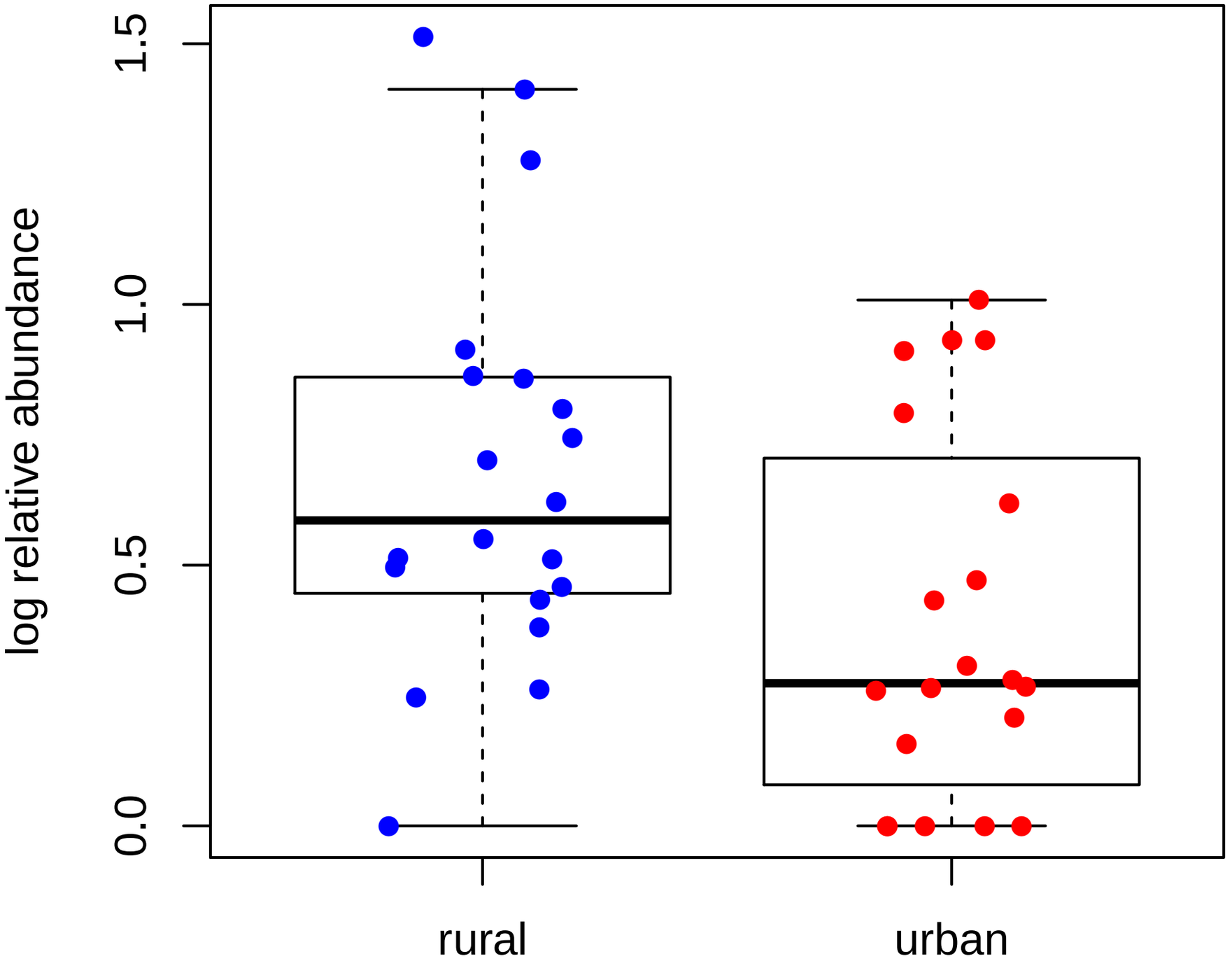

WGS species: Acidaminococcus_intestini
pAdjRuralUrban= 0.11
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

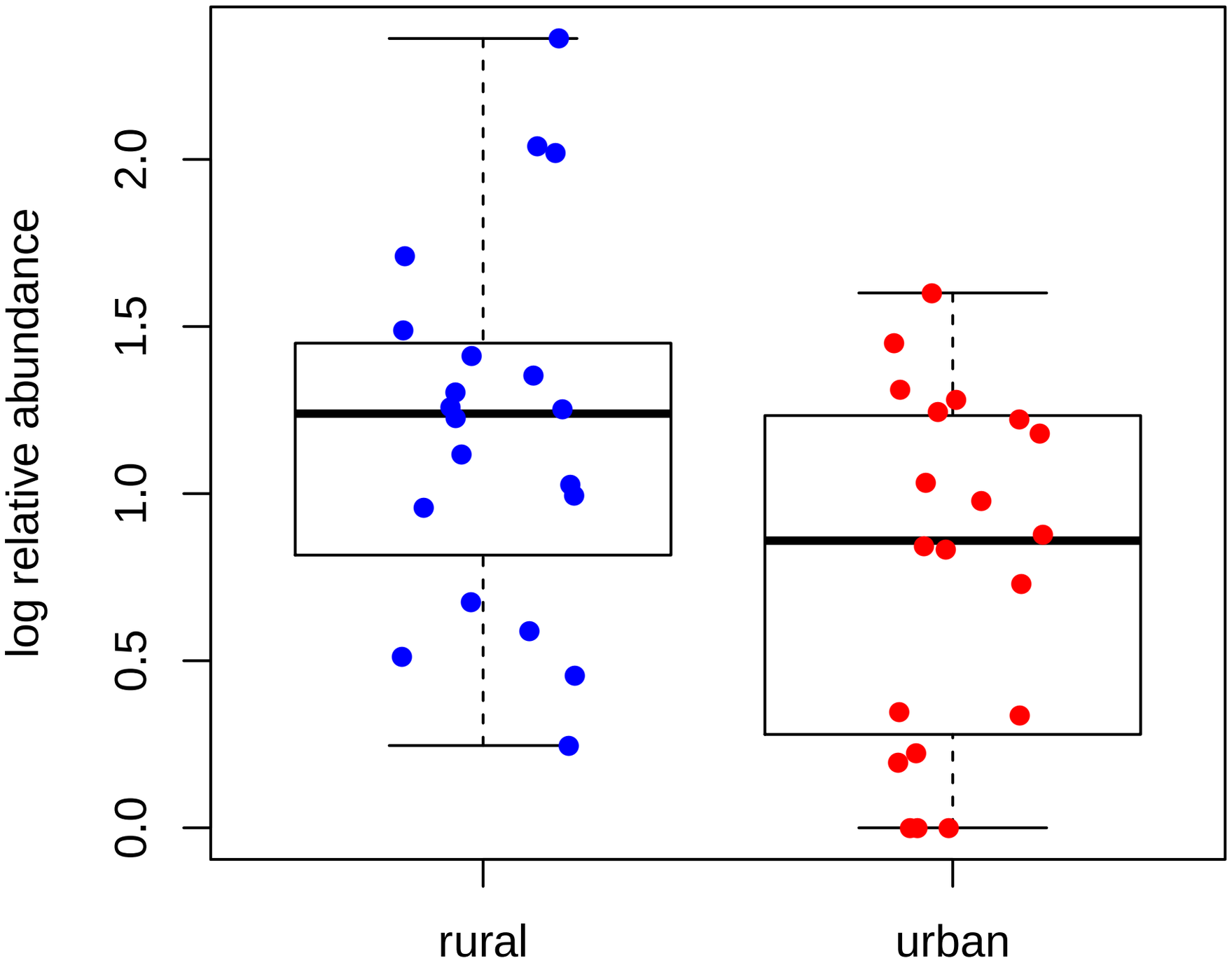

WGS species: Burkholderia_rhizoxinica
pAdjRuralUrban= 0.112
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

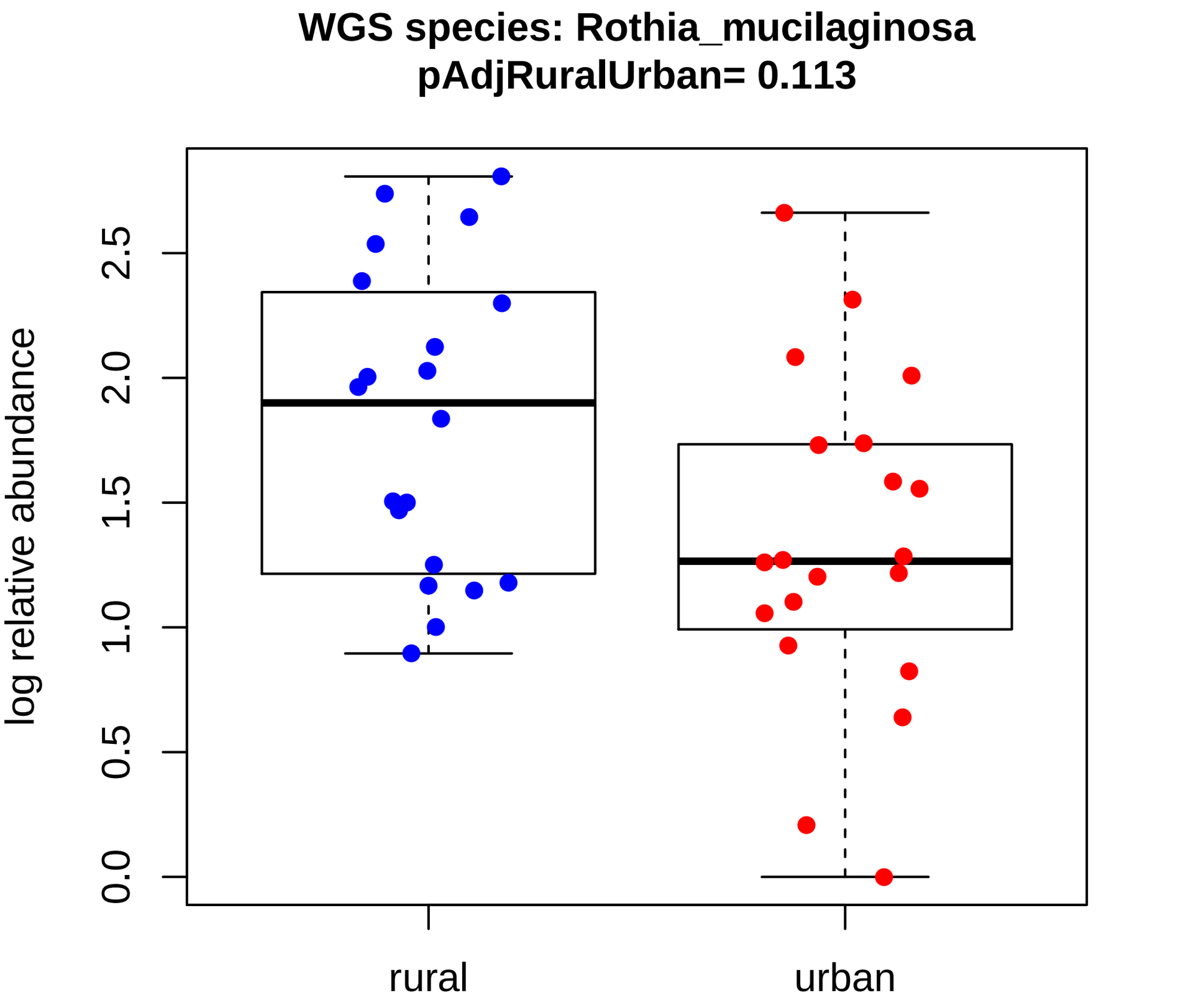

WGS species: Gordonia_polyisoprenivorans
pAdjRuralUrban= 0.112
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

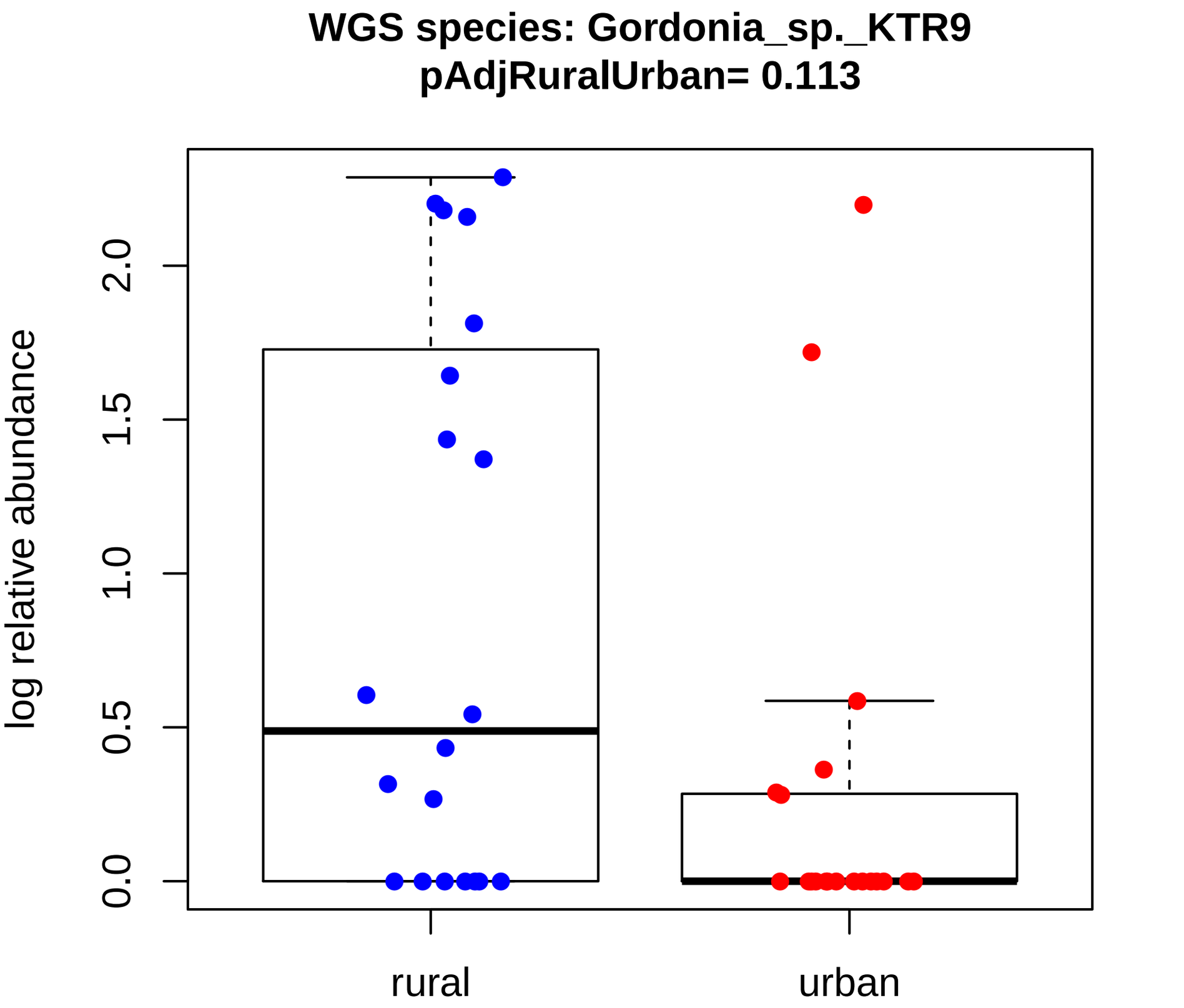

WGS species: Desulfotomaculum_gibsoniae
pAdjRuralUrban= 0.112
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

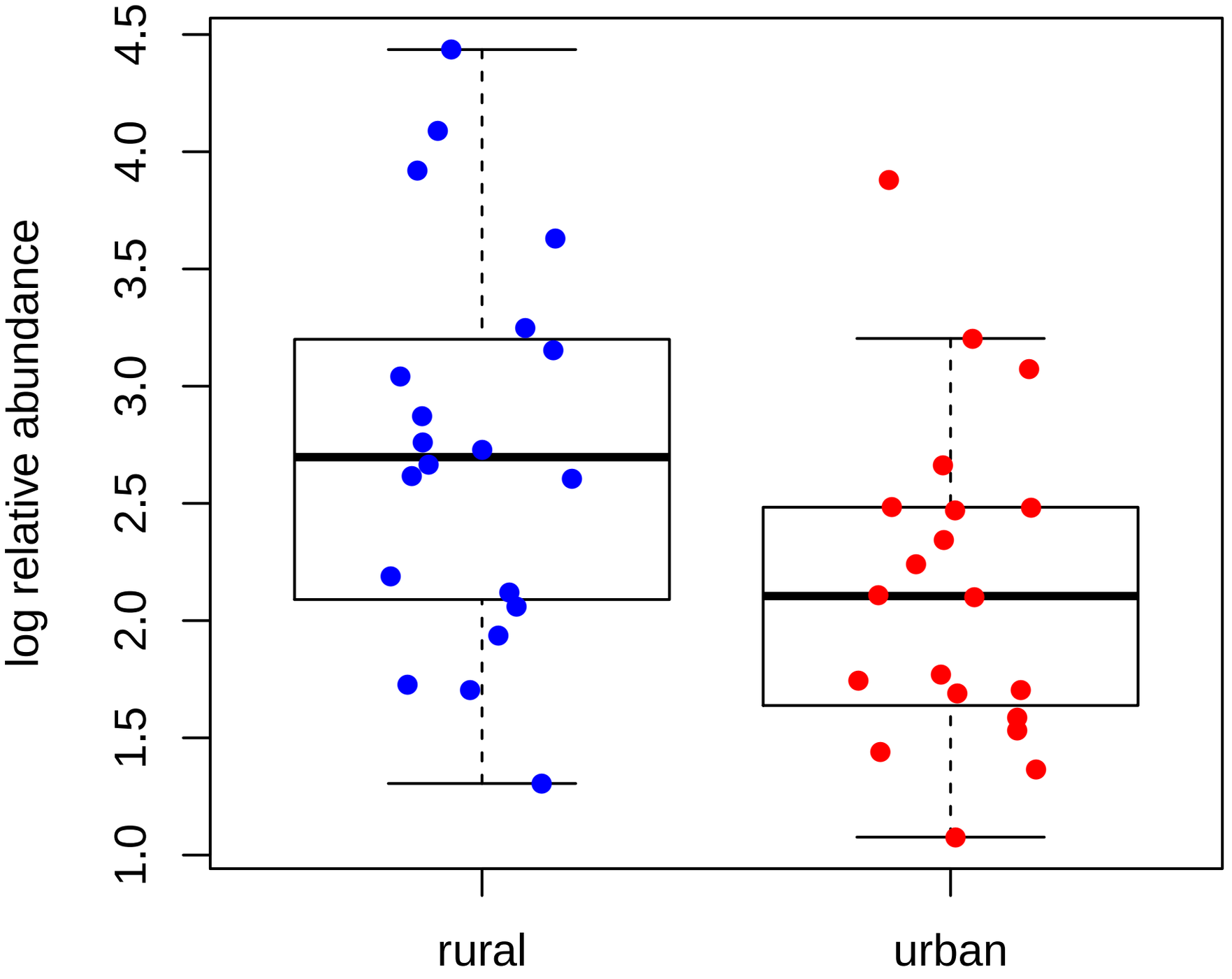

WGS species: Dehalococcoides_mccartyi
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

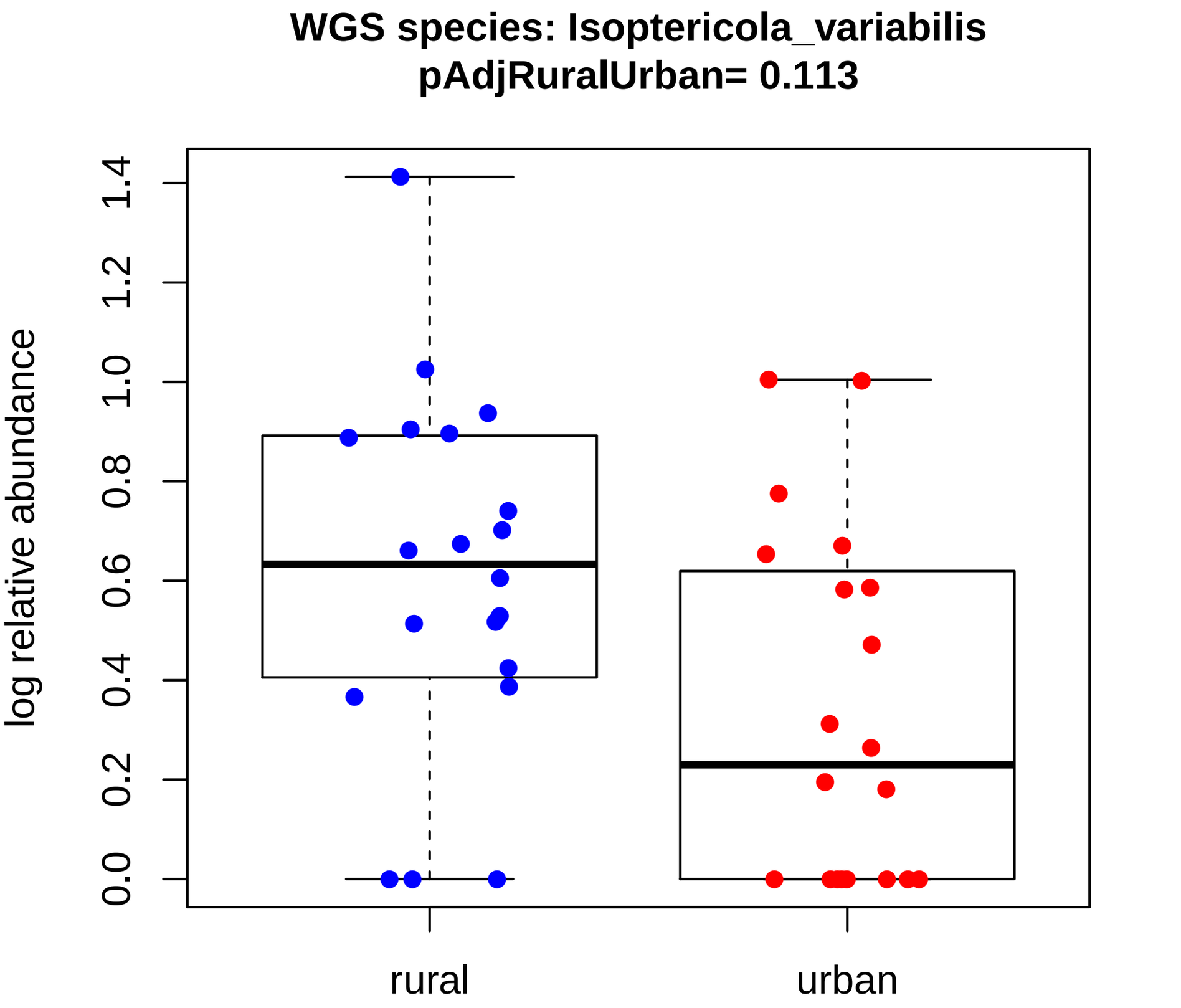

WGS species: Arthrobacter_phenanthrenivorans
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

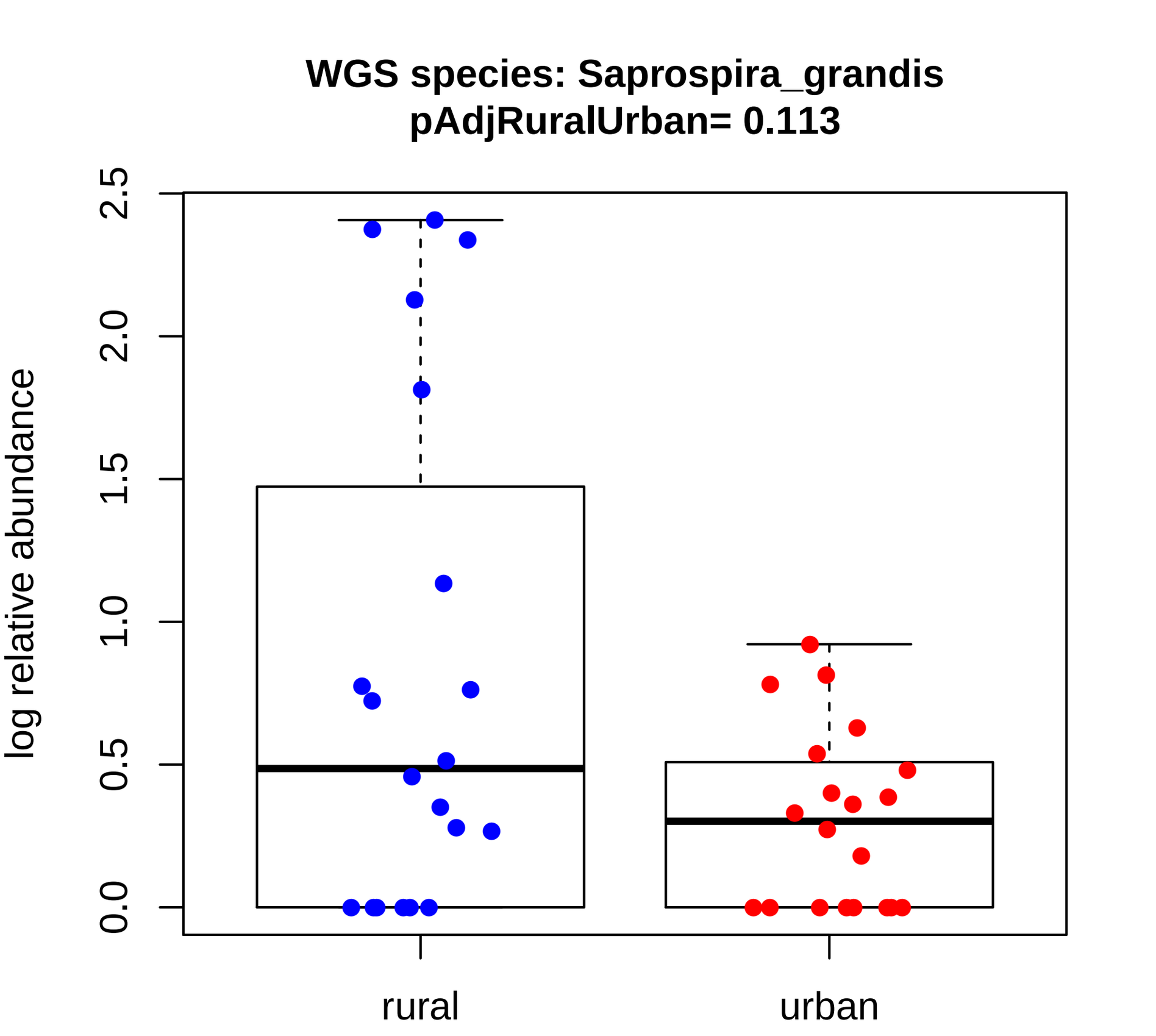

WGS species: Calditerrivibrio_nitroreducens
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

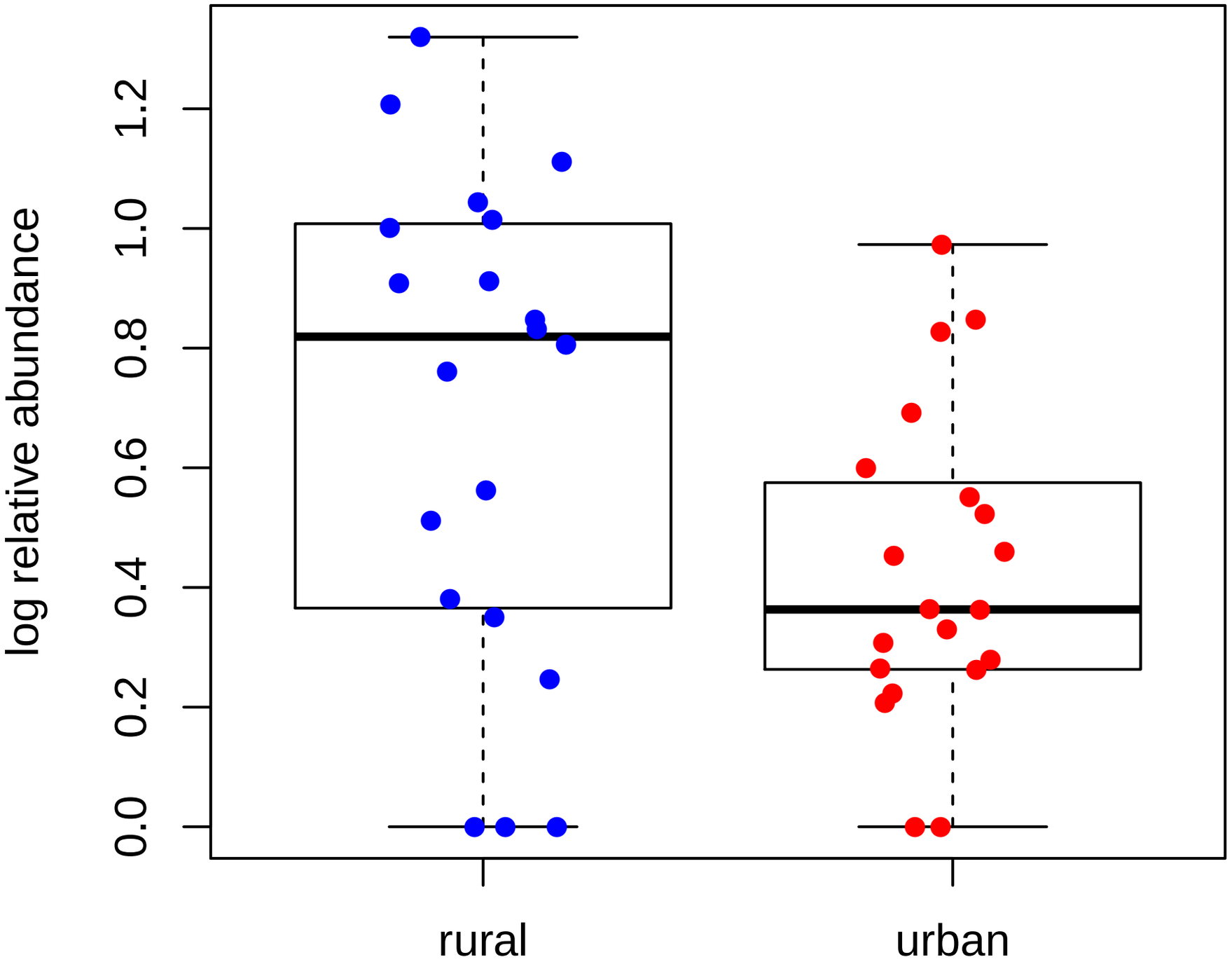

WGS species: Rothia_mucilaginosa
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

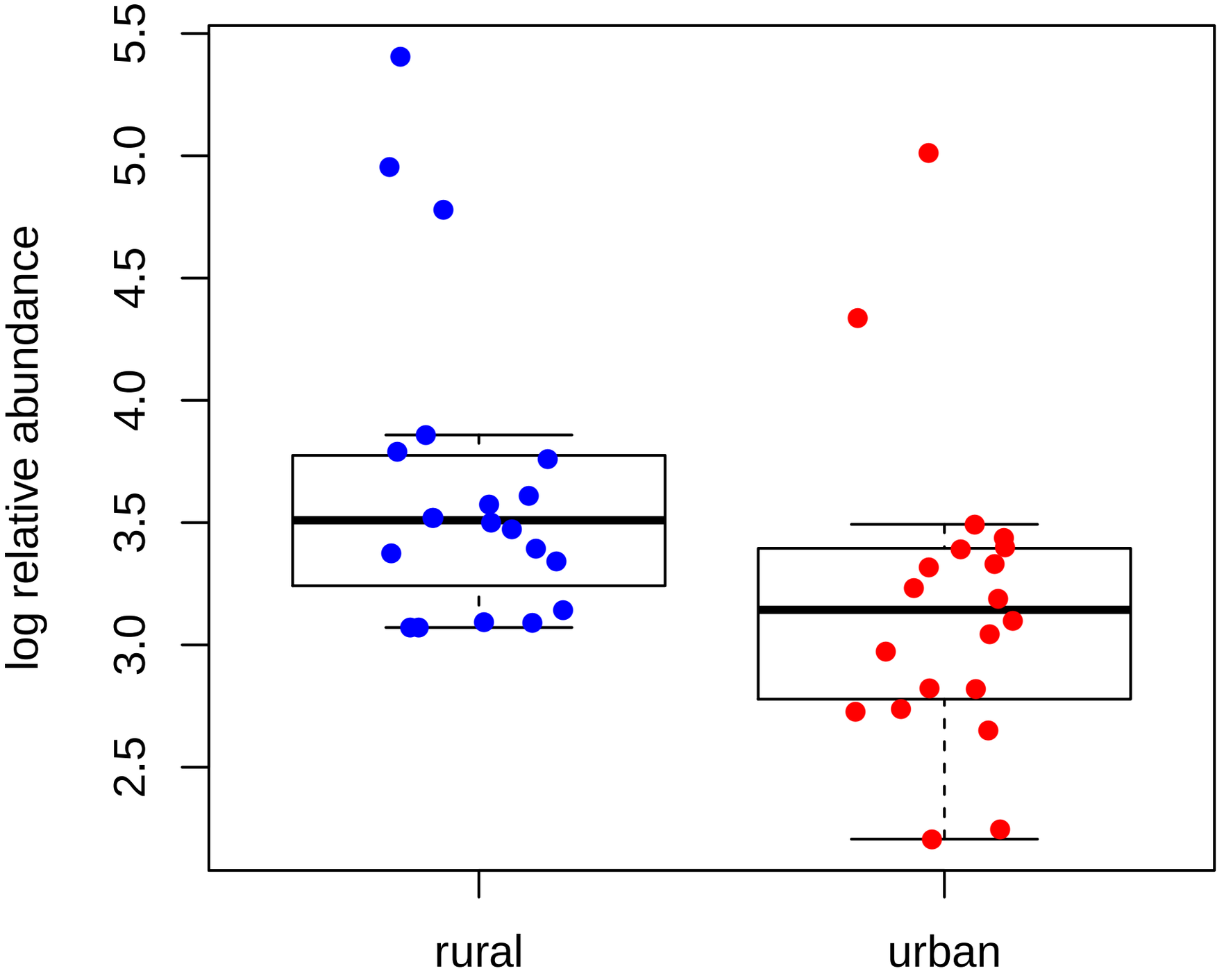

WGS species: Gordonia_sp._KTR9
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

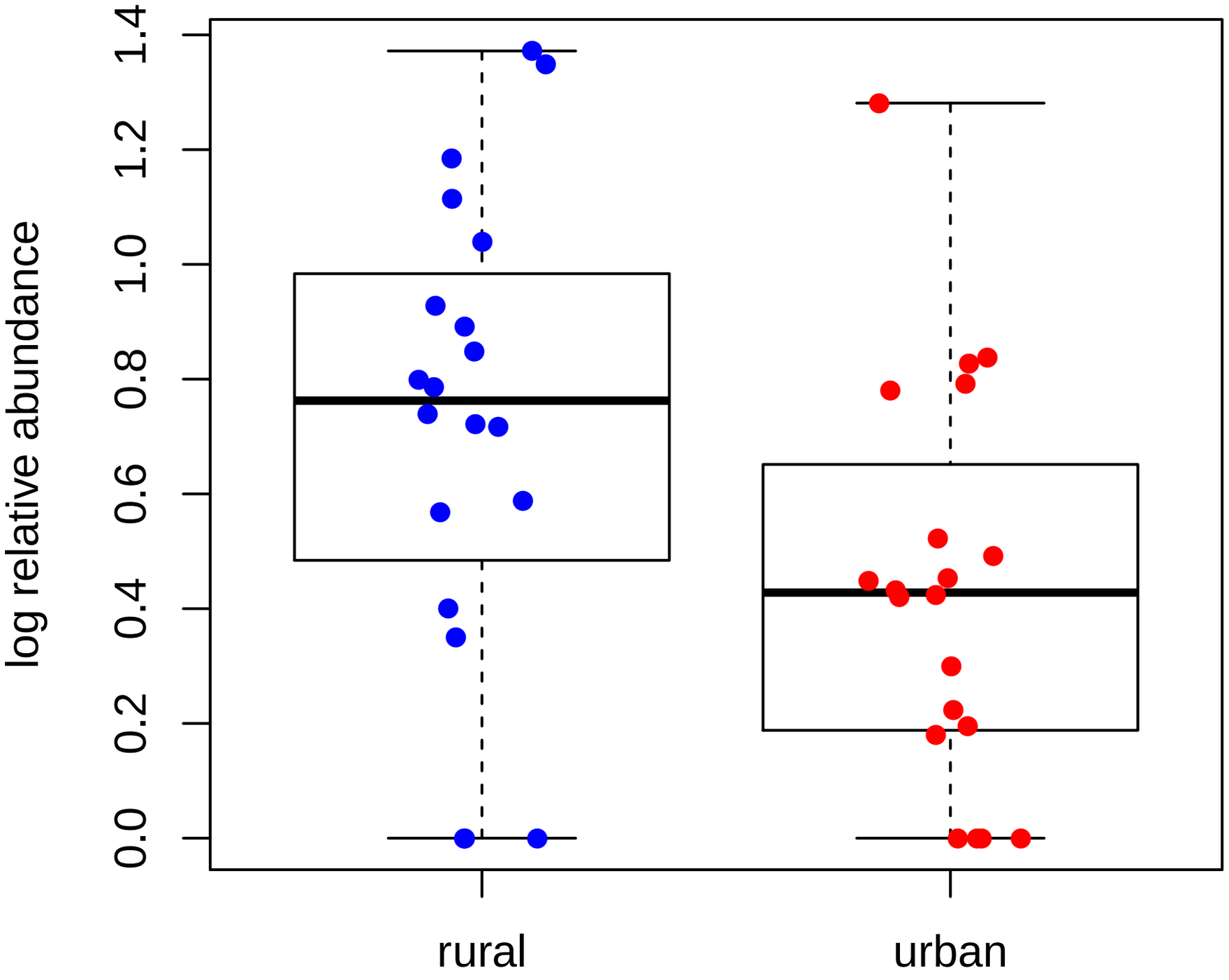

WGS species: Streptococcus_parasanguinis
pAdjRuralUrban= 0.113
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
rural
urban

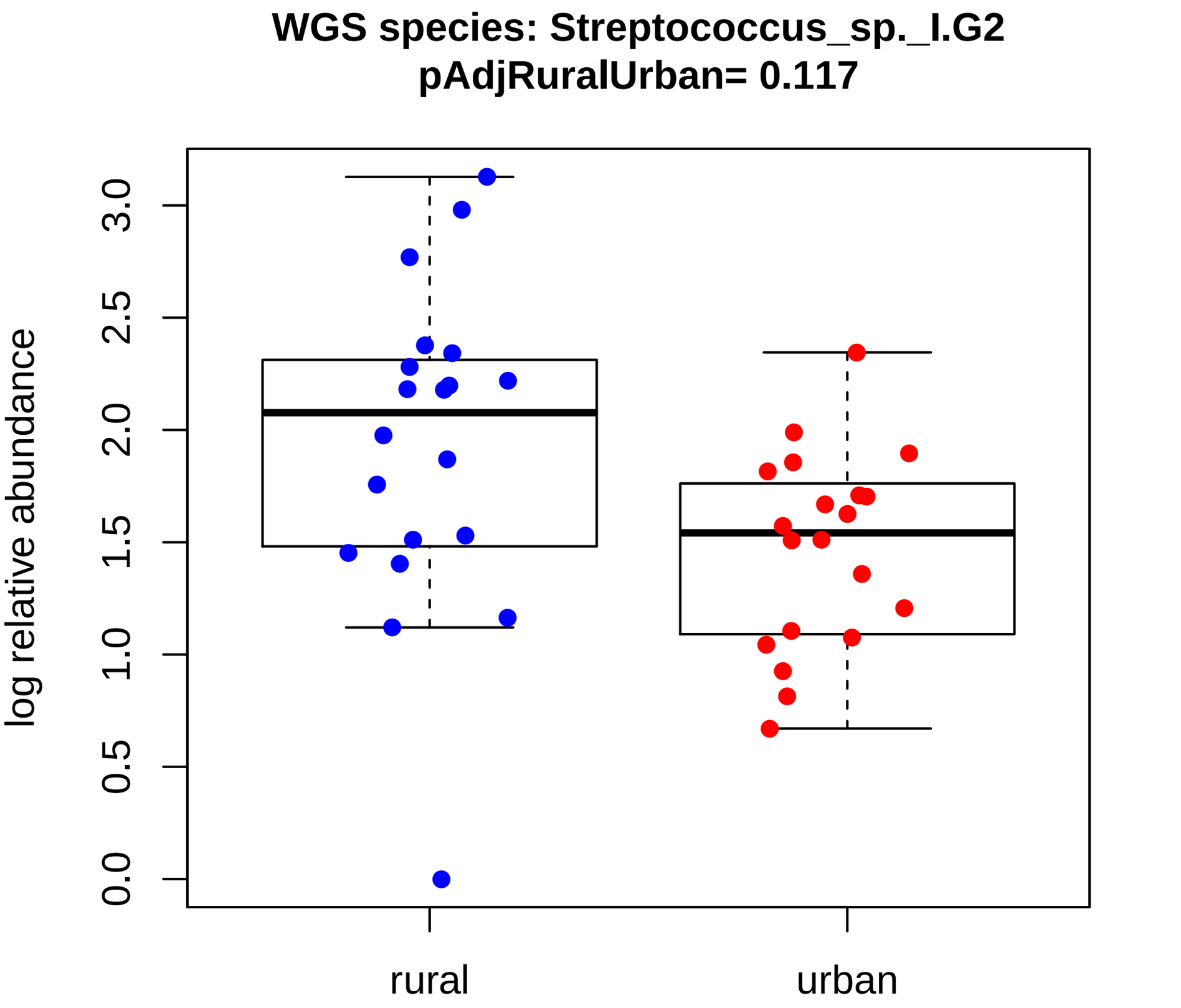

WGS species: Isoptericola_variabilis
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

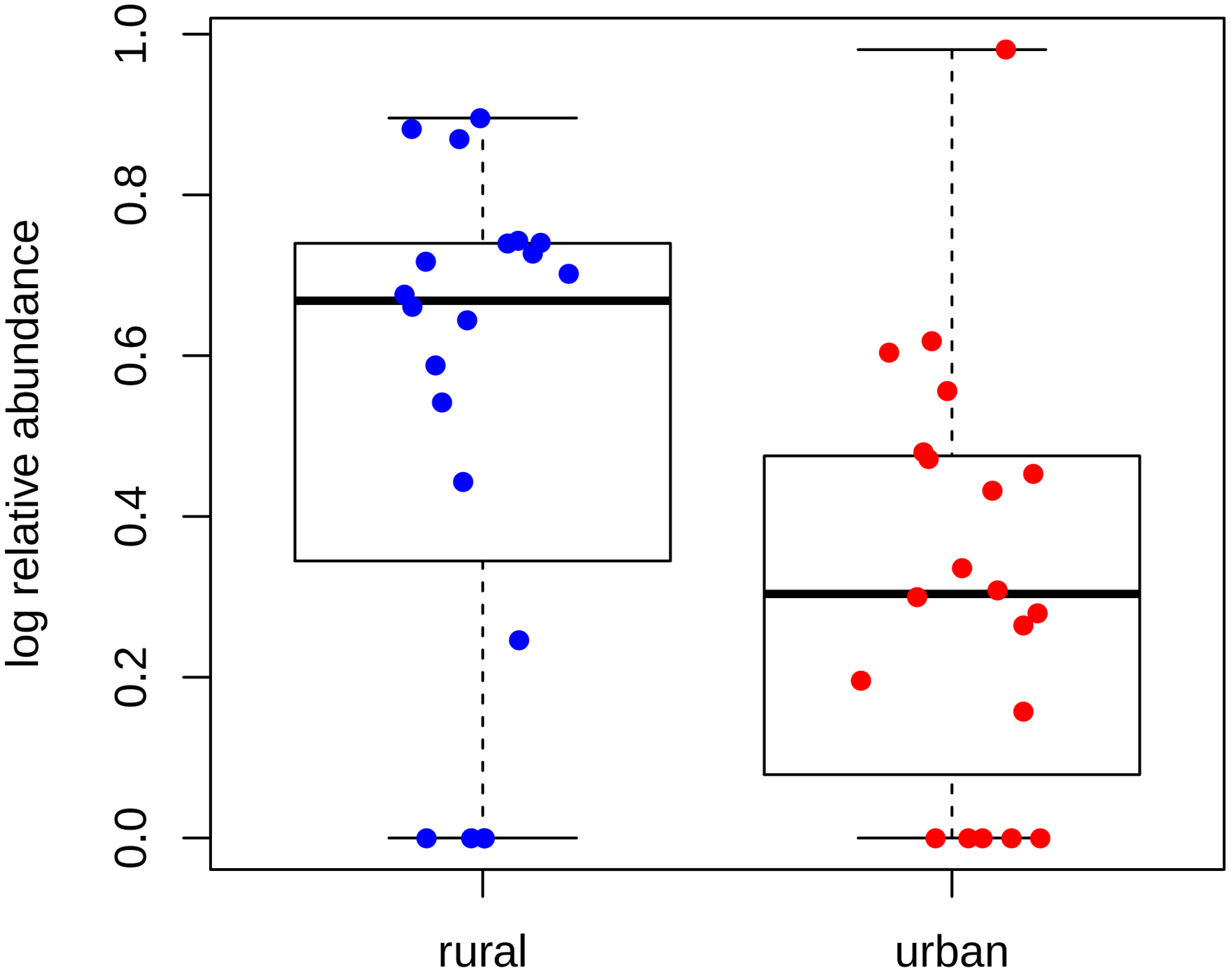

WGS species: Saprospira_grandis
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

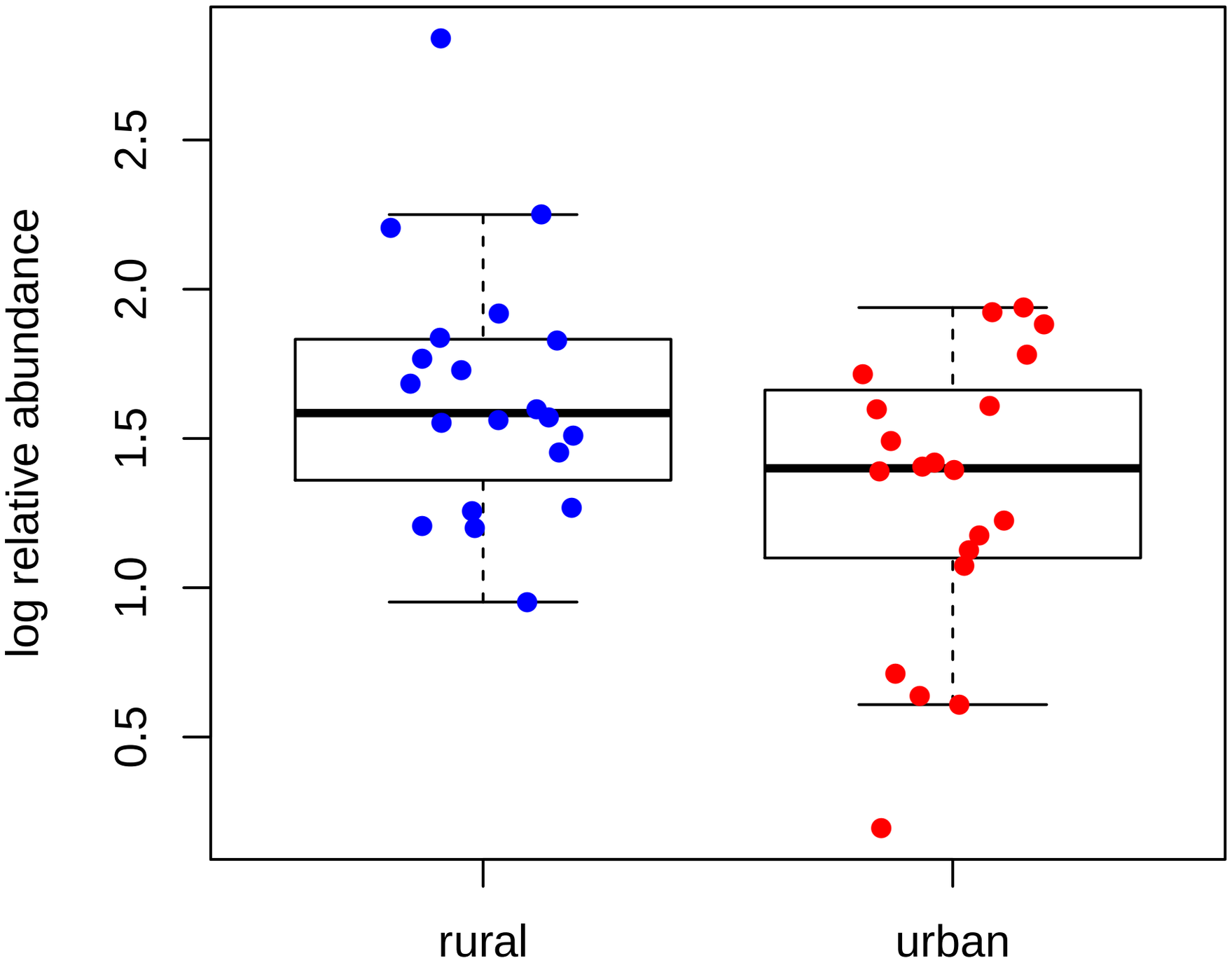

WGS species: Methylococcus_capsulatus
pAdjRuralUrban= 0.113
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

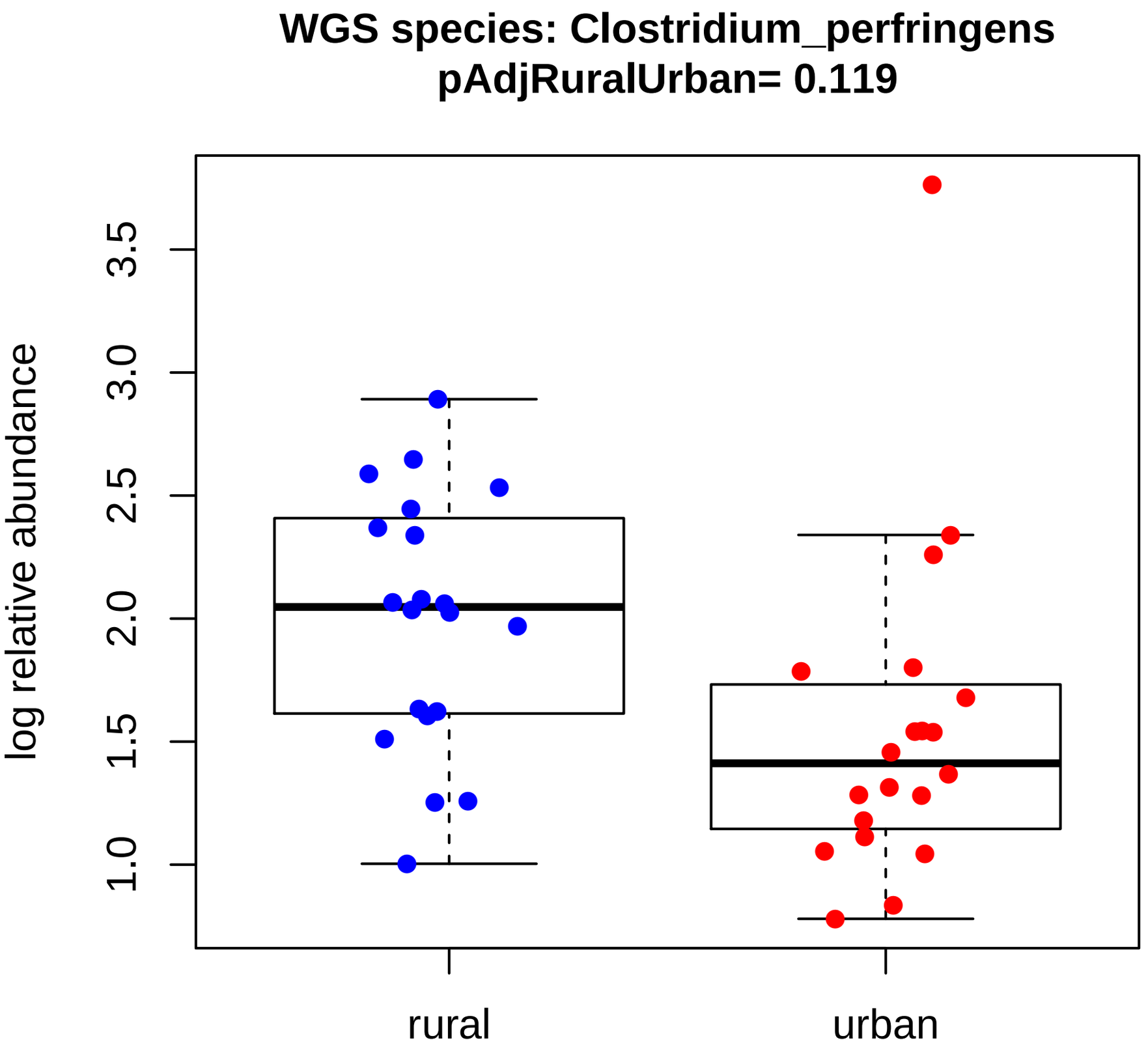

WGS species: X.Eubacterium._siraeum
pAdjRuralUrban= 0.114
log relative abundance
2.5
3.0
3.5
4.0
4.5
5.0
5.5
rural
urban

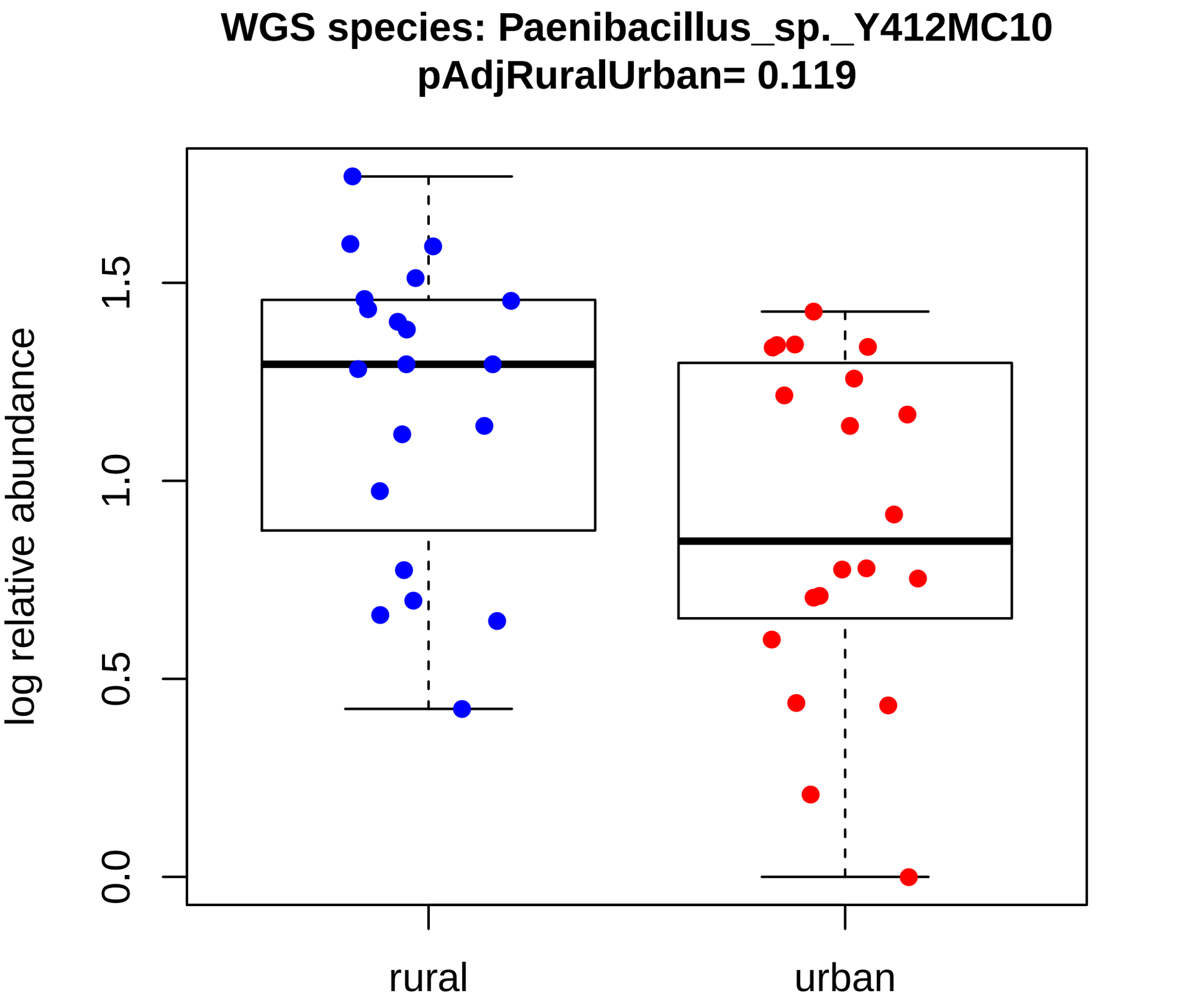

WGS species: Desulfobulbus_propionicus
pAdjRuralUrban= 0.114
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

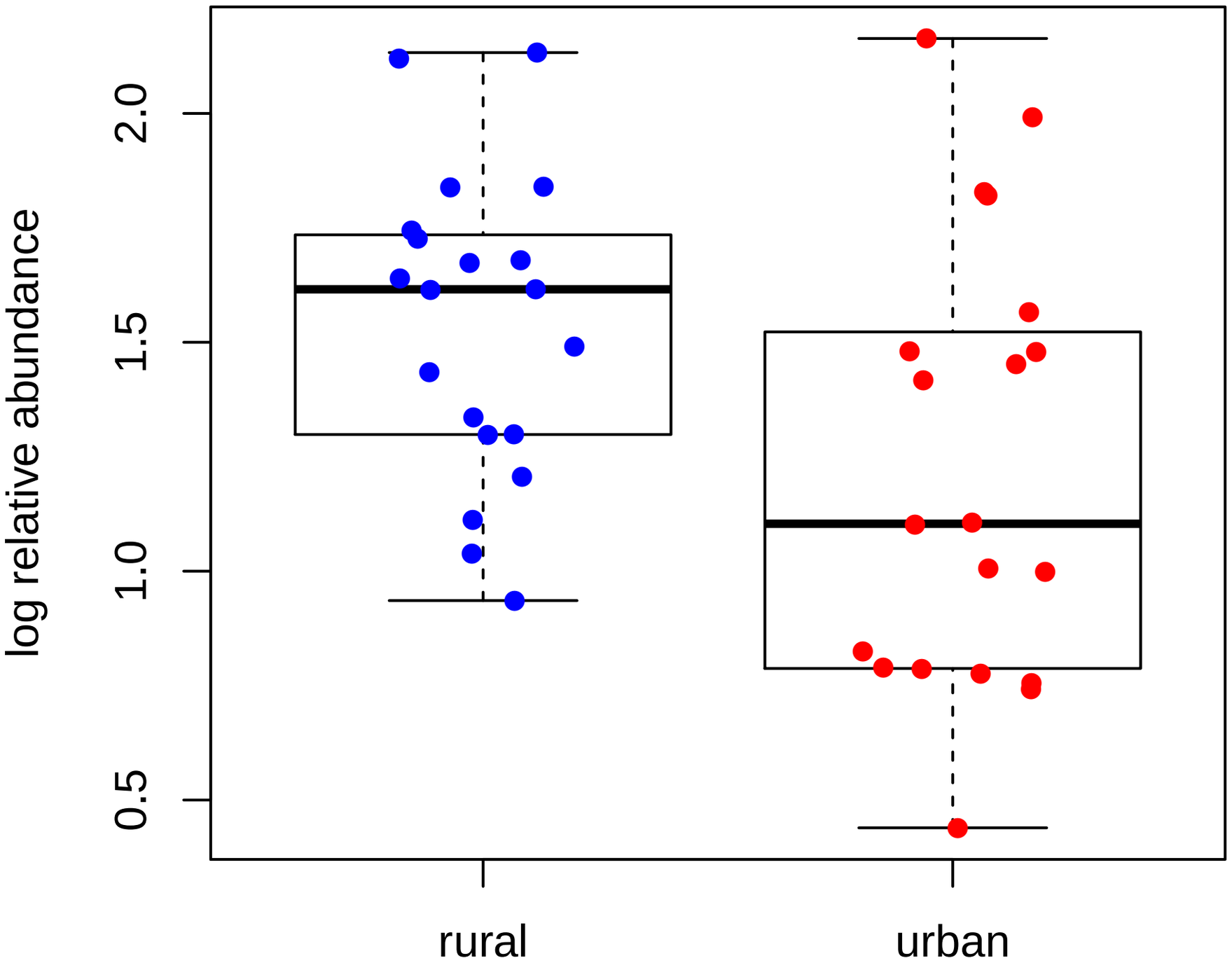

WGS species: Streptococcus_sp._I.G2
pAdjRuralUrban= 0.117
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

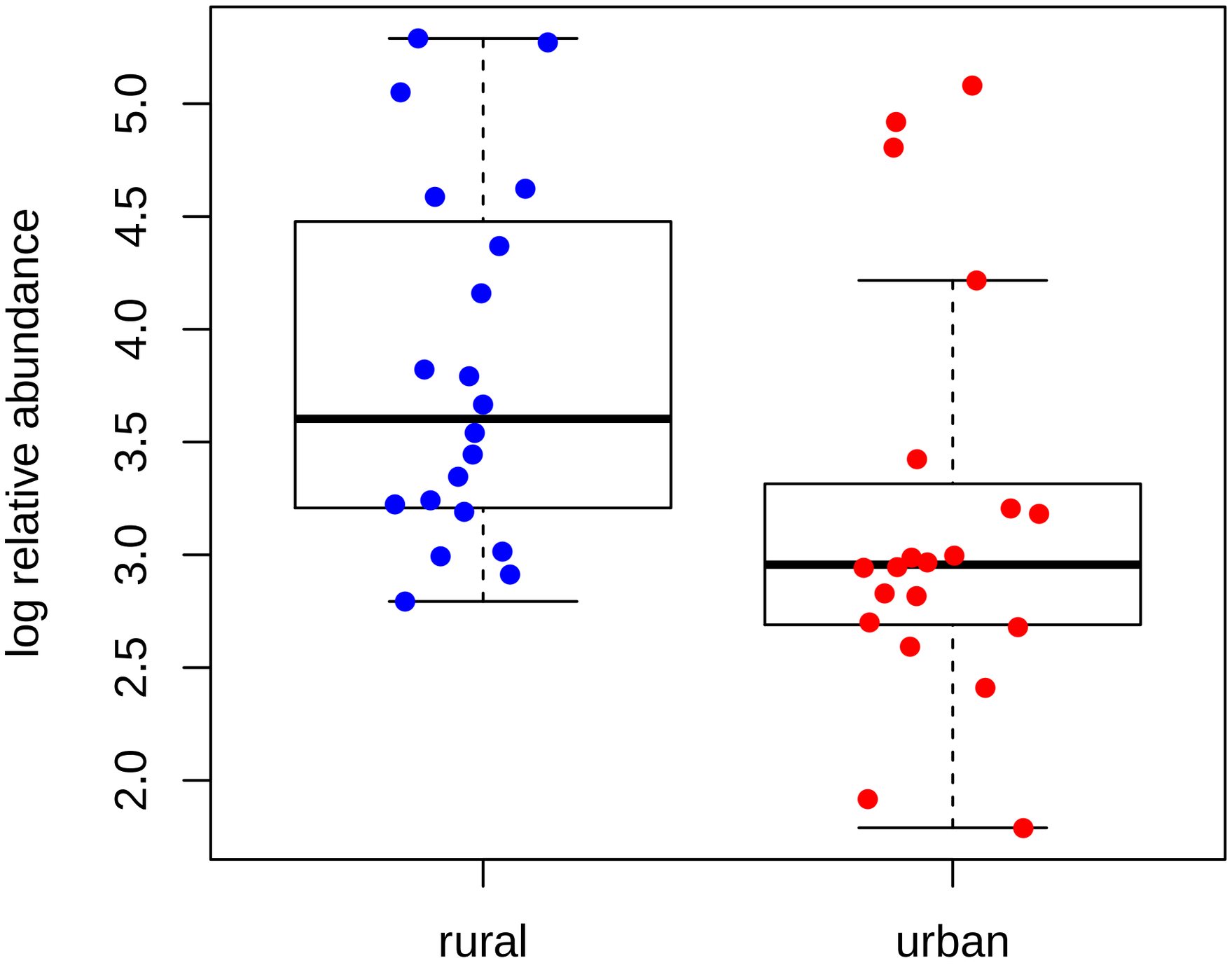

WGS species: Rhizobium_tropici
pAdjRuralUrban= 0.117
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

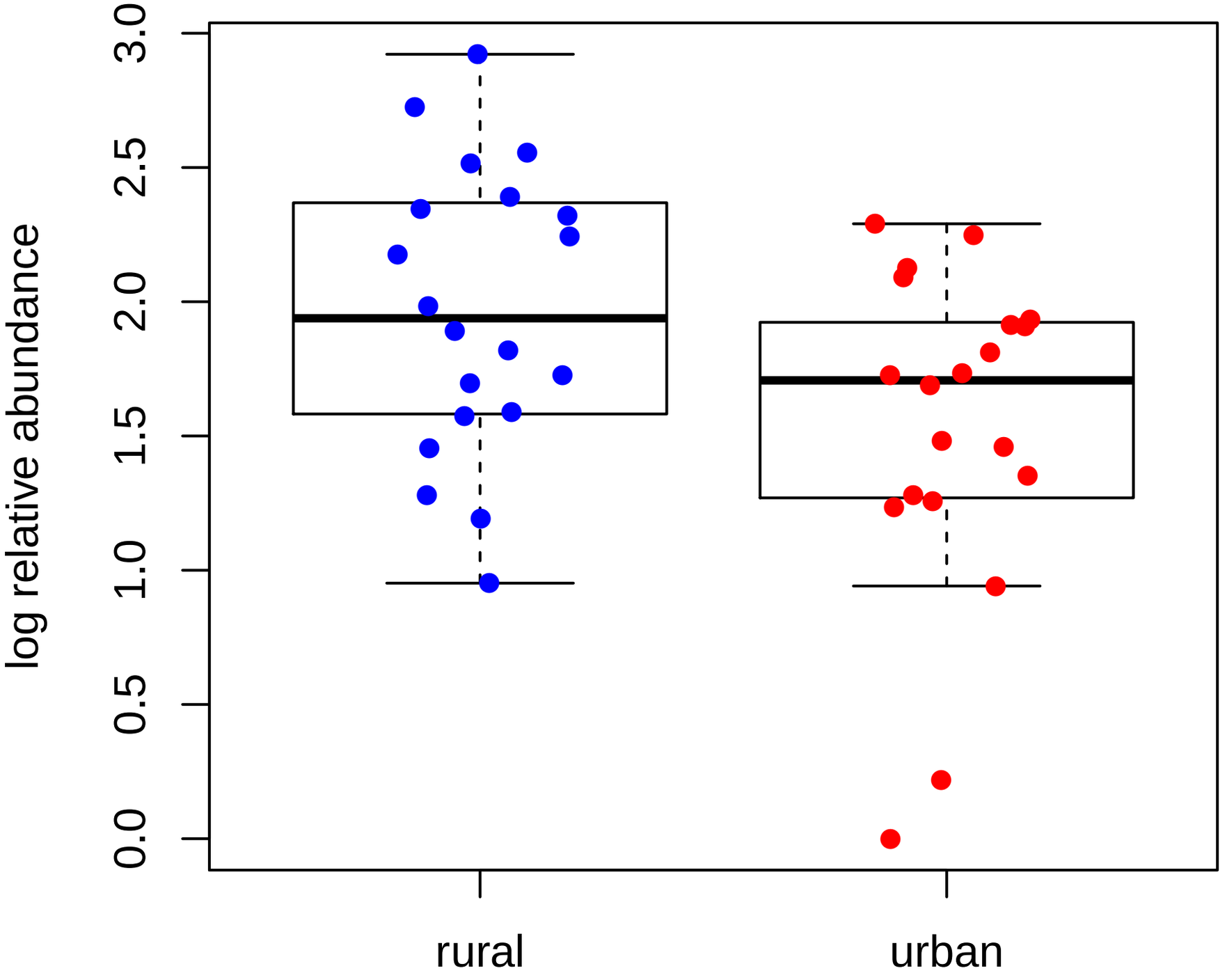

WGS species: X.Clostridium._cellulolyticum
pAdjRuralUrban= 0.119
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

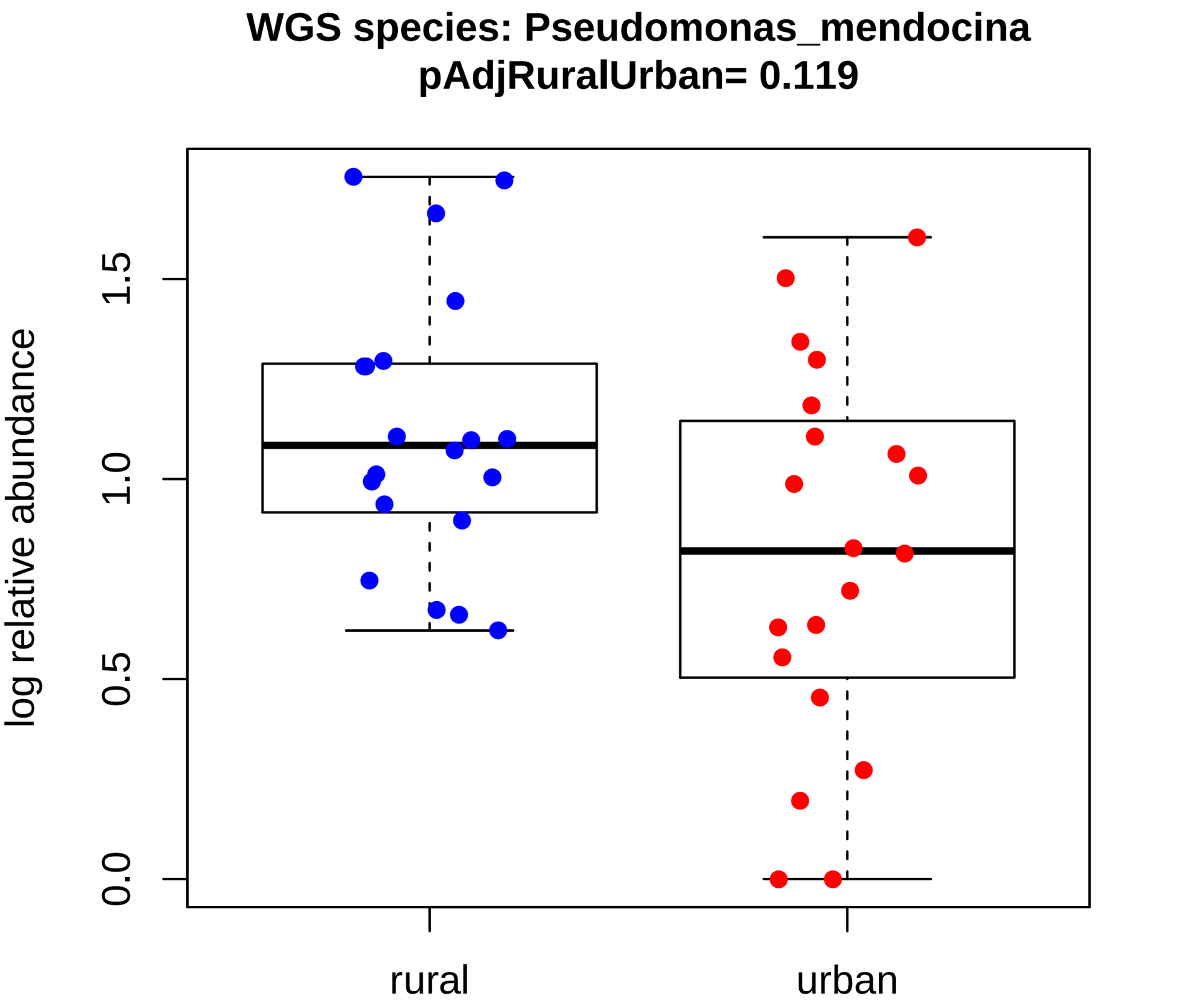

WGS species: Clostridium_perfringens
pAdjRuralUrban= 0.119
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

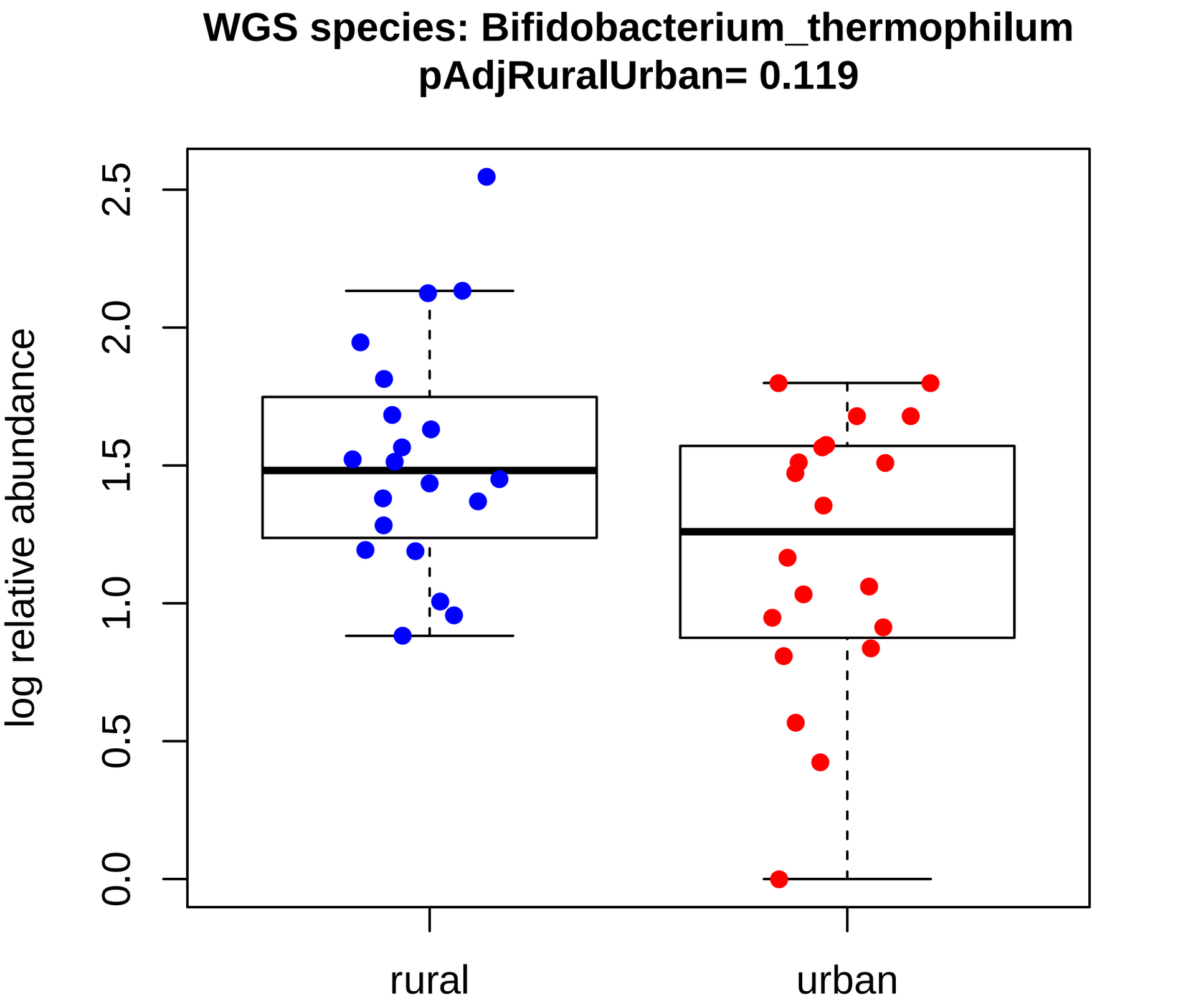

WGS species: Paenibacillus_sp._Y412MC10
pAdjRuralUrban= 0.119
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

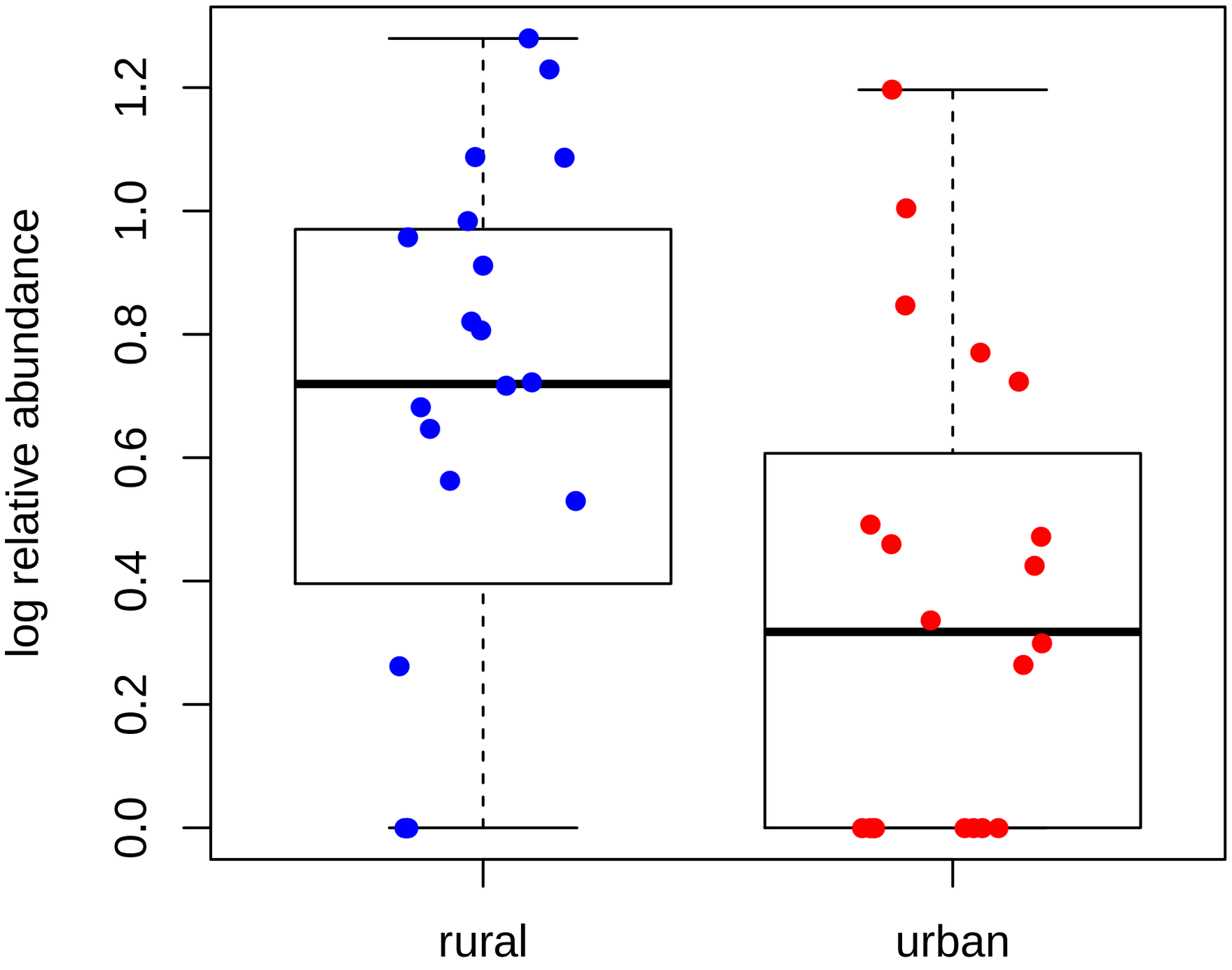

WGS species: Sorangium_cellulosum
pAdjRuralUrban= 0.119
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

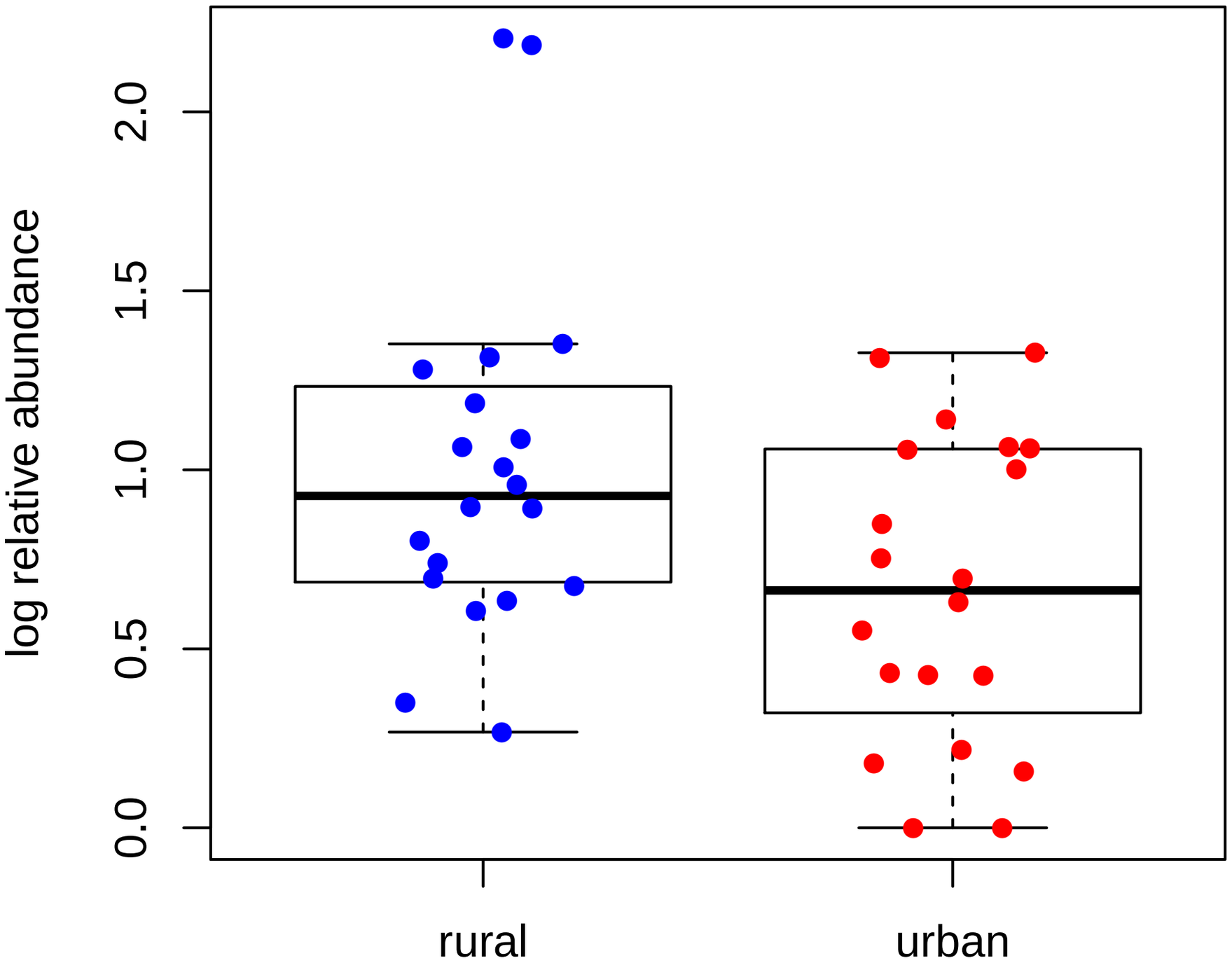

WGS species: Coprococcus_sp._ART55.1
pAdjRuralUrban= 0.119
log relative abundance
2.0
2.5
3.0
3.5
4.0
4.5
5.0
rural
urban

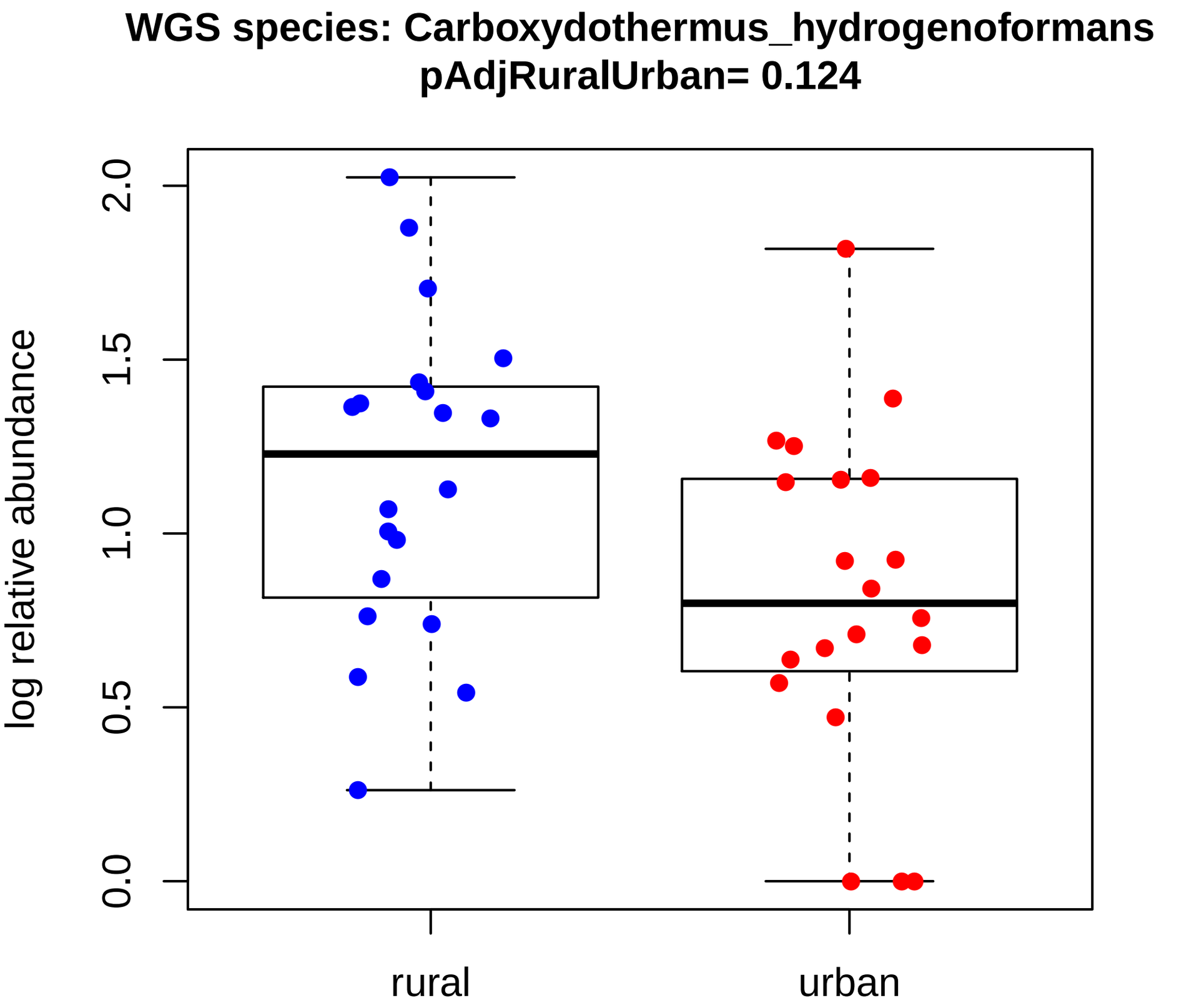

WGS species: Porphyromonas_asaccharolytica
pAdjRuralUrban= 0.119
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

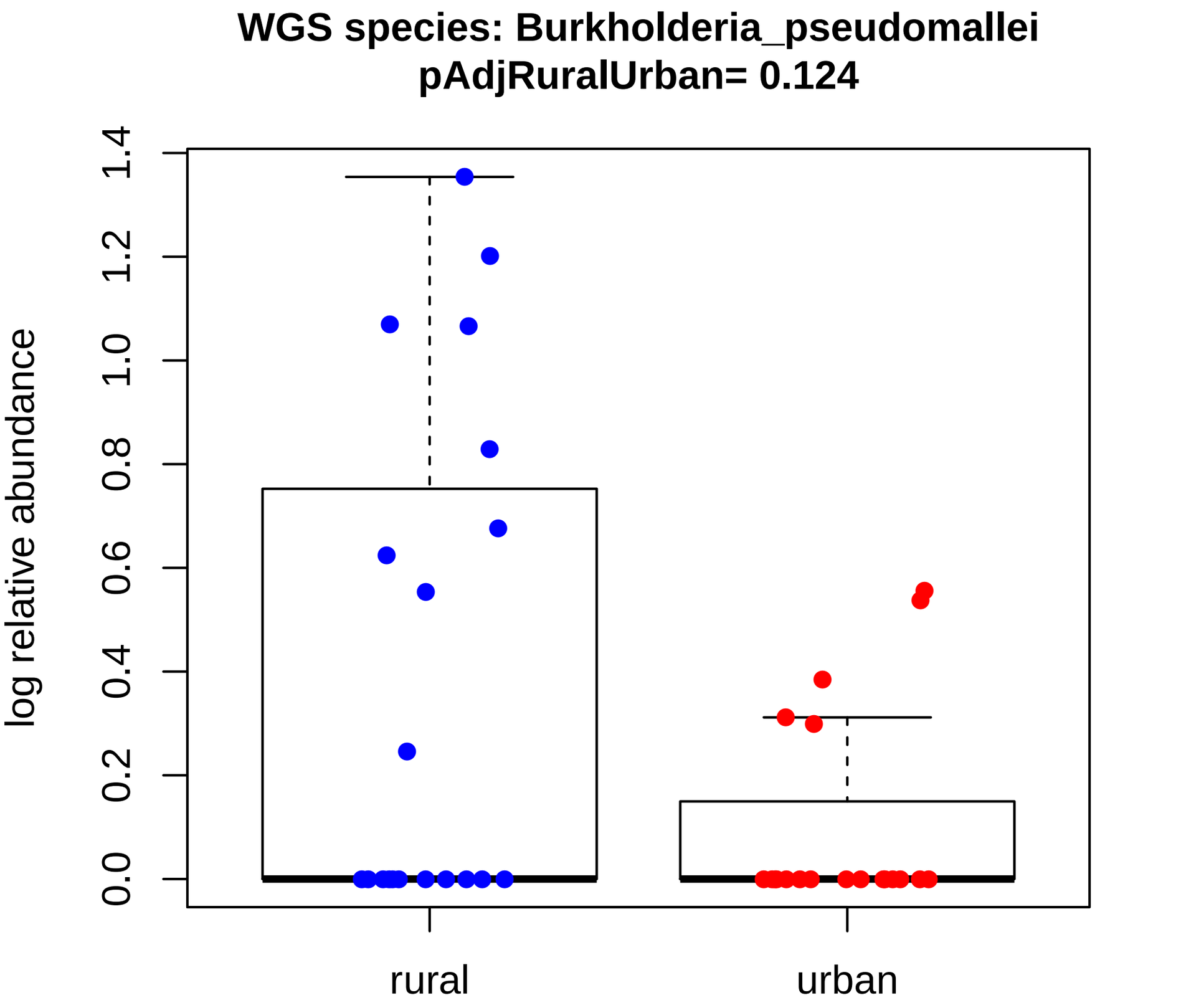

WGS species: Pseudomonas_mendocina
pAdjRuralUrban= 0.119
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

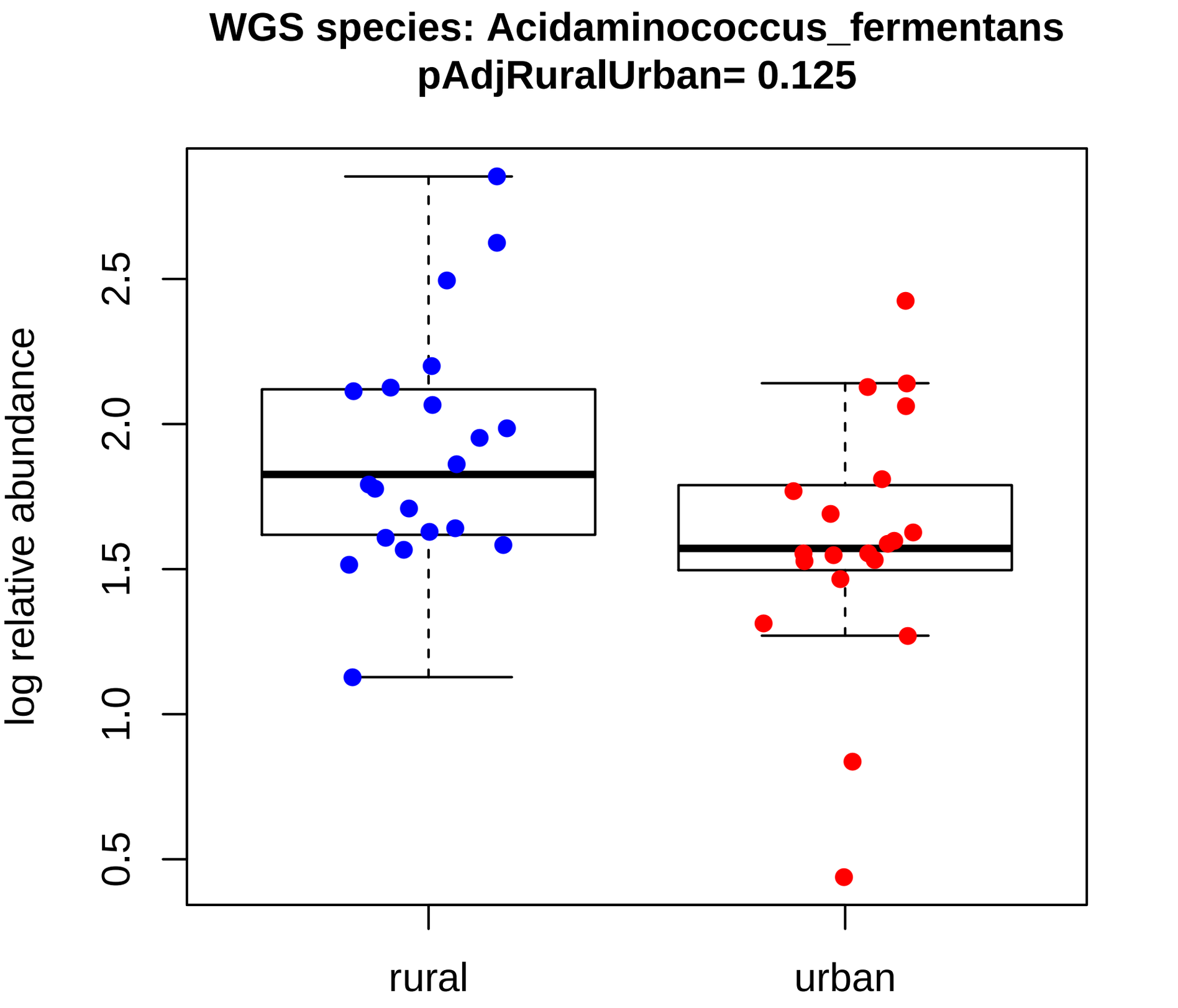

WGS species: Bifidobacterium_thermophilum
pAdjRuralUrban= 0.119
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

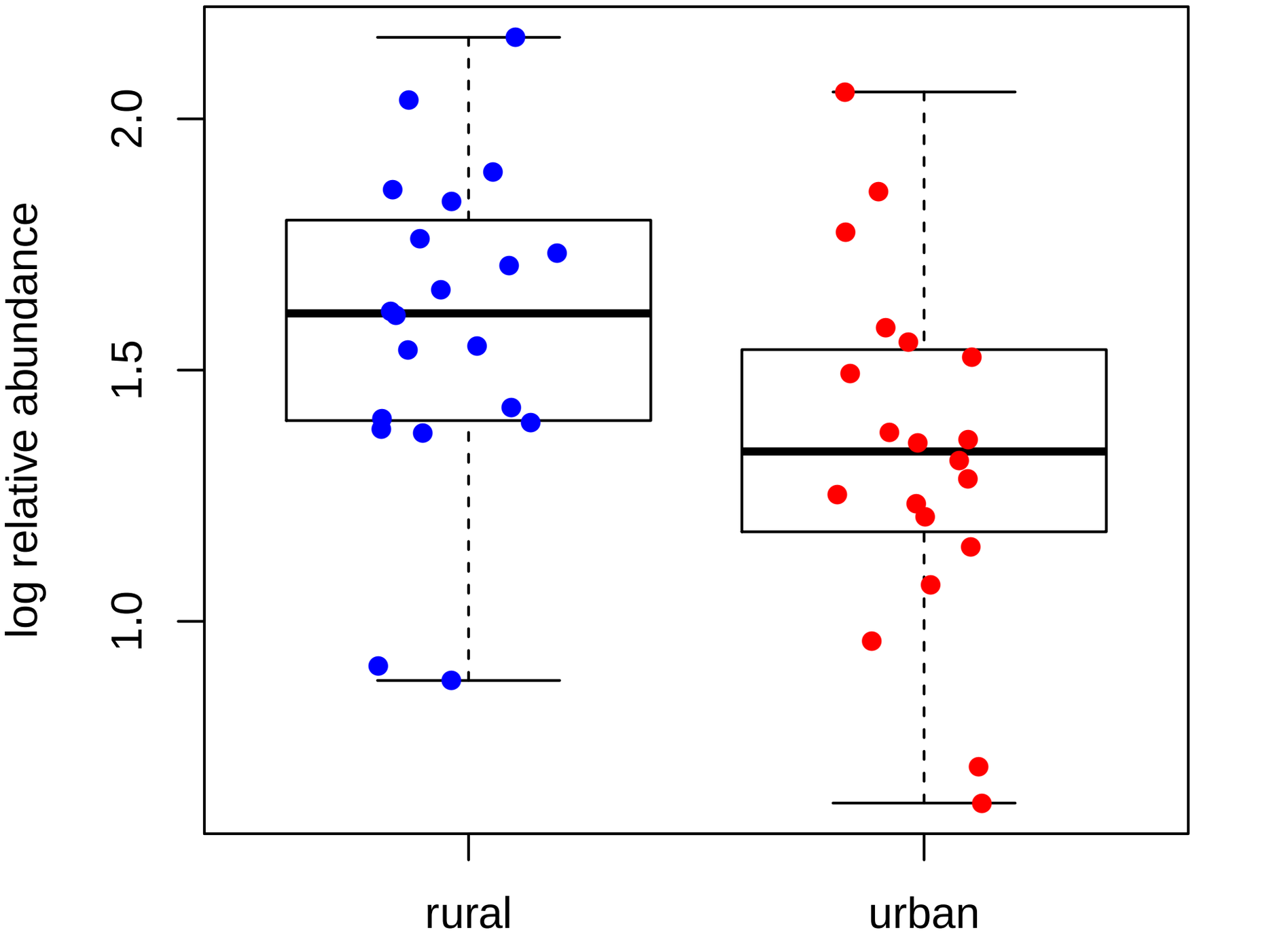

WGS species: Corynebacterium_maris
pAdjRuralUrban= 0.119
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

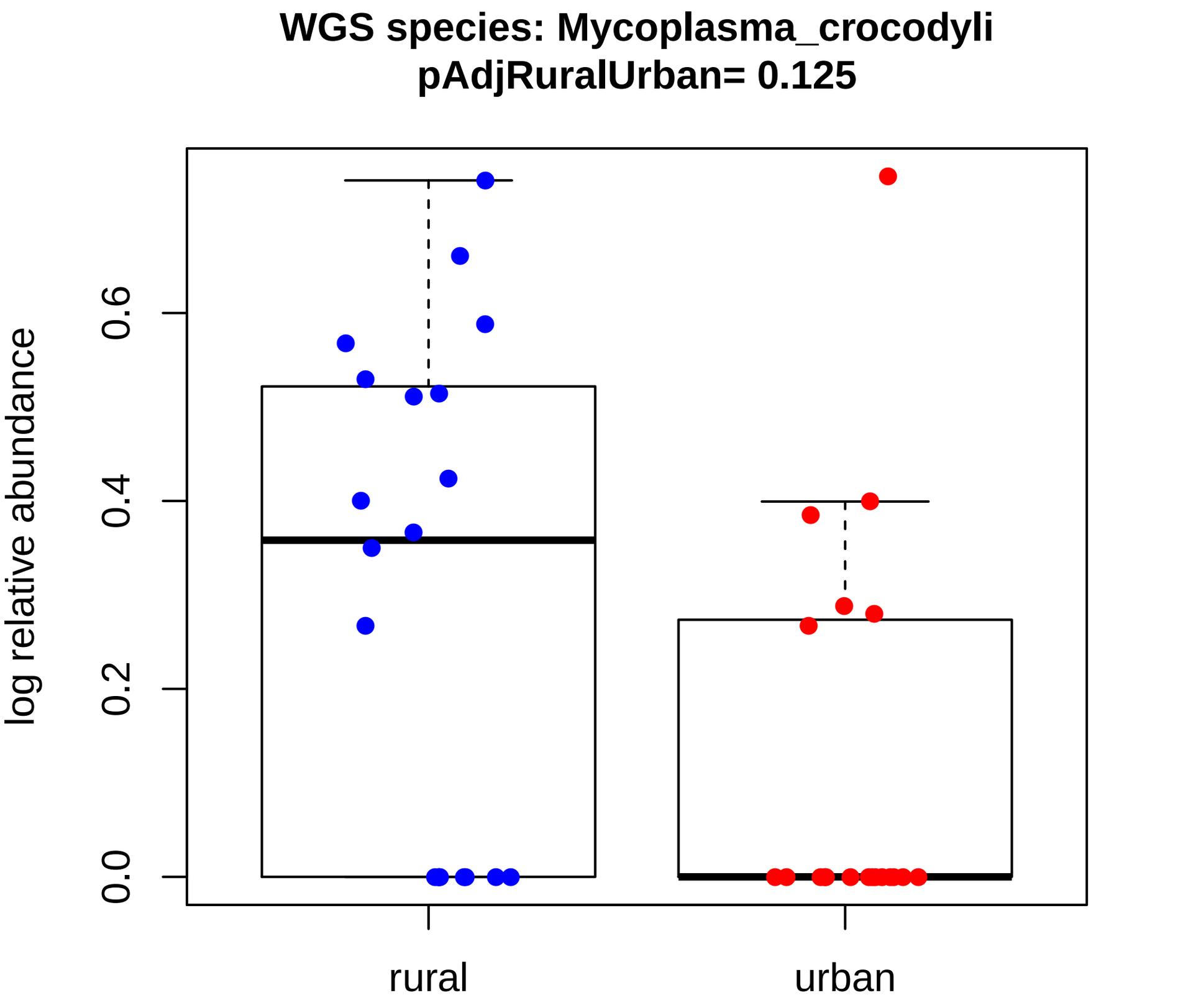

WGS species: Oceanimonas_sp._GK1
pAdjRuralUrban= 0.124
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

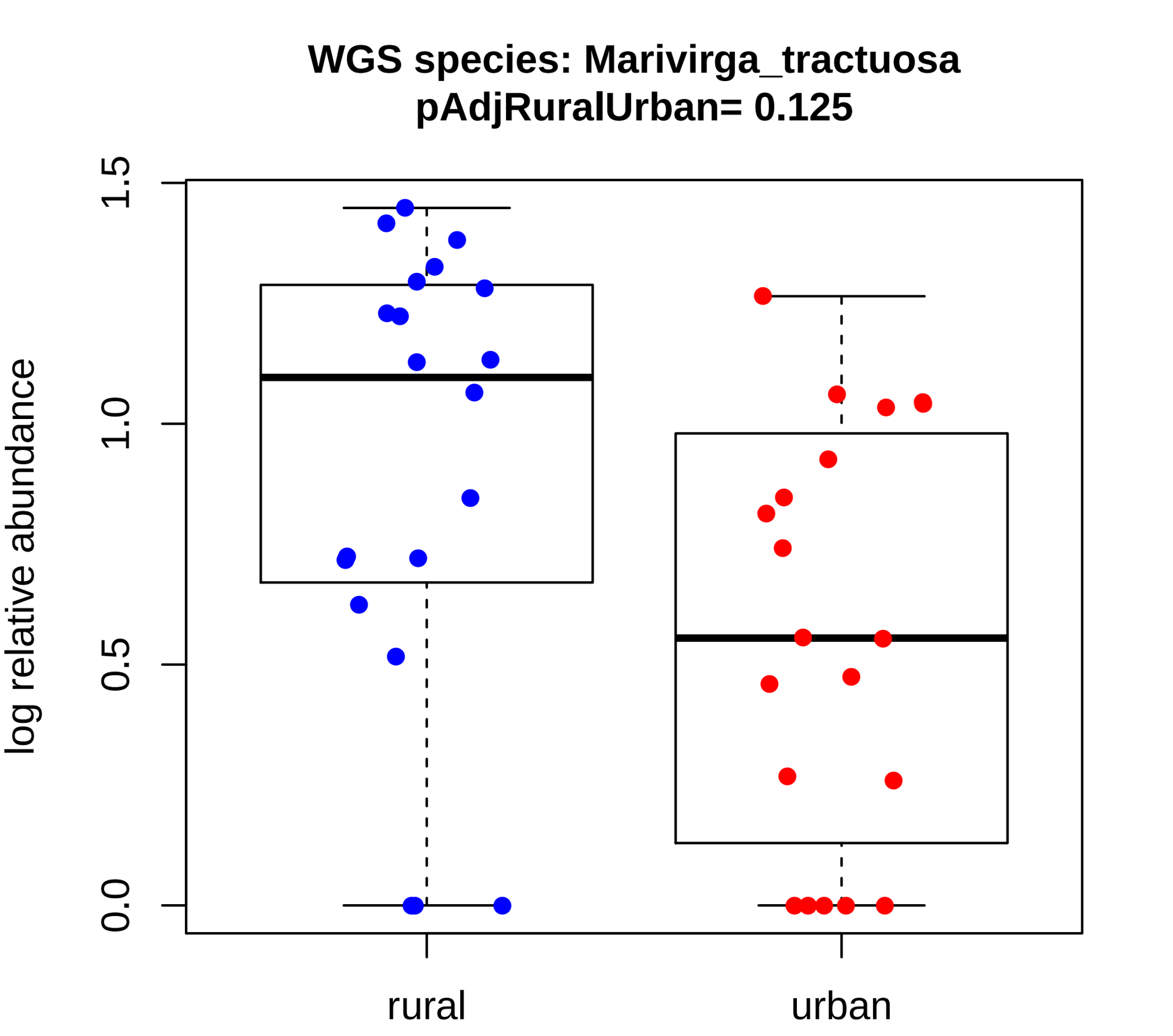

WGS species: Carboxydothermus_hydrogenoformans
pAdjRuralUrban= 0.124
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

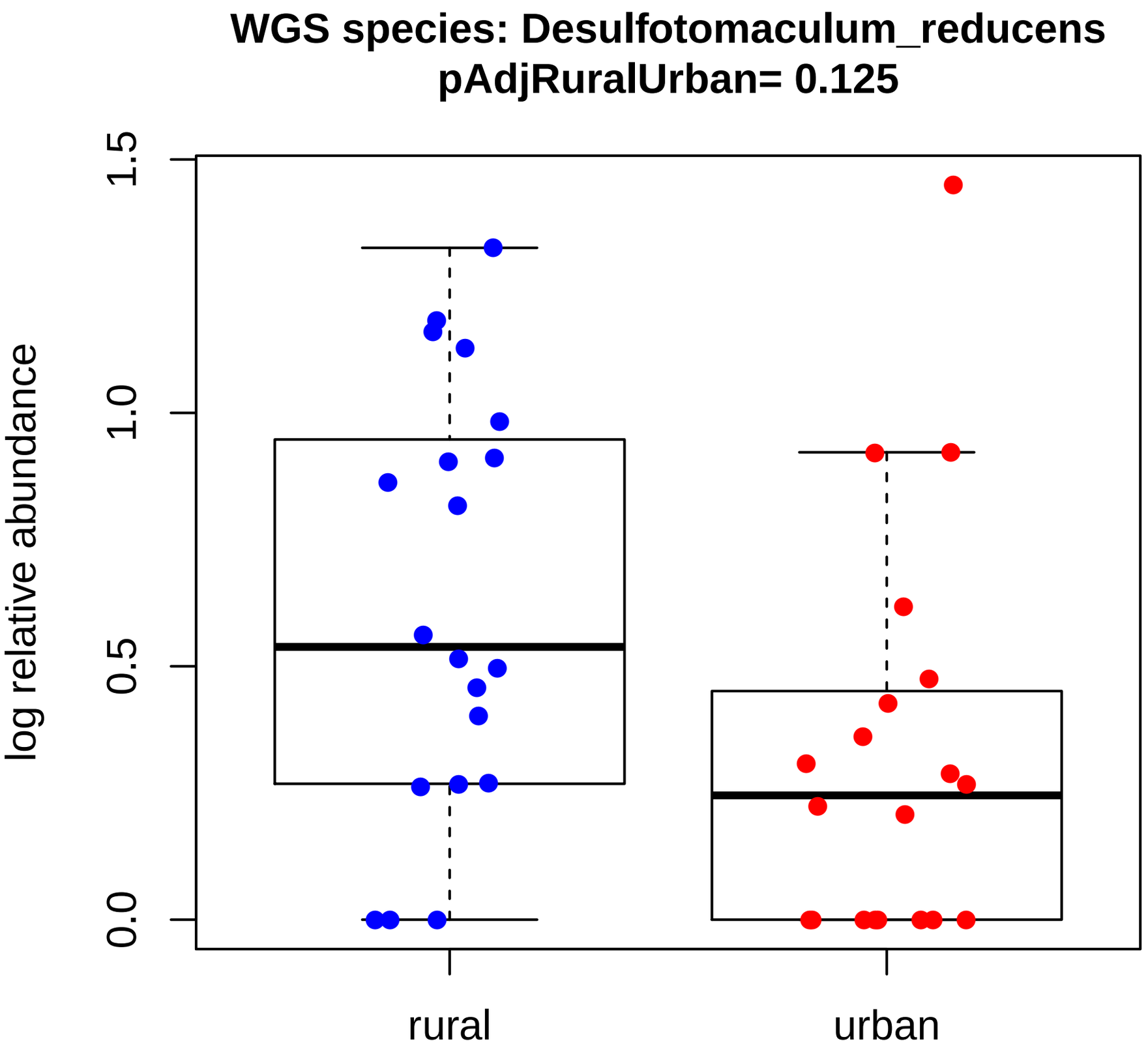

WGS species: Burkholderia_pseudomallei
pAdjRuralUrban= 0.124
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

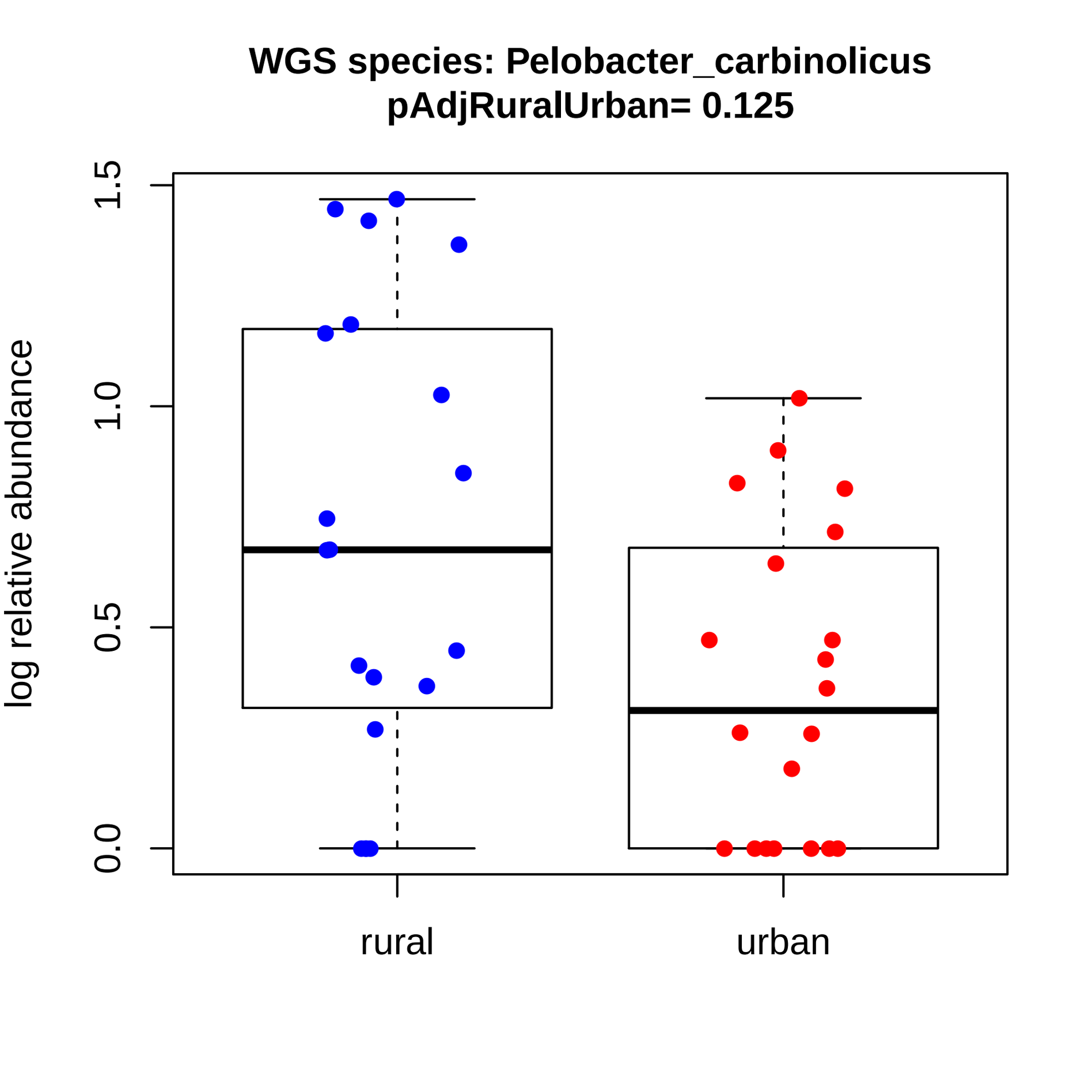

WGS species: Acidaminococcus_fermentans
pAdjRuralUrban= 0.125
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

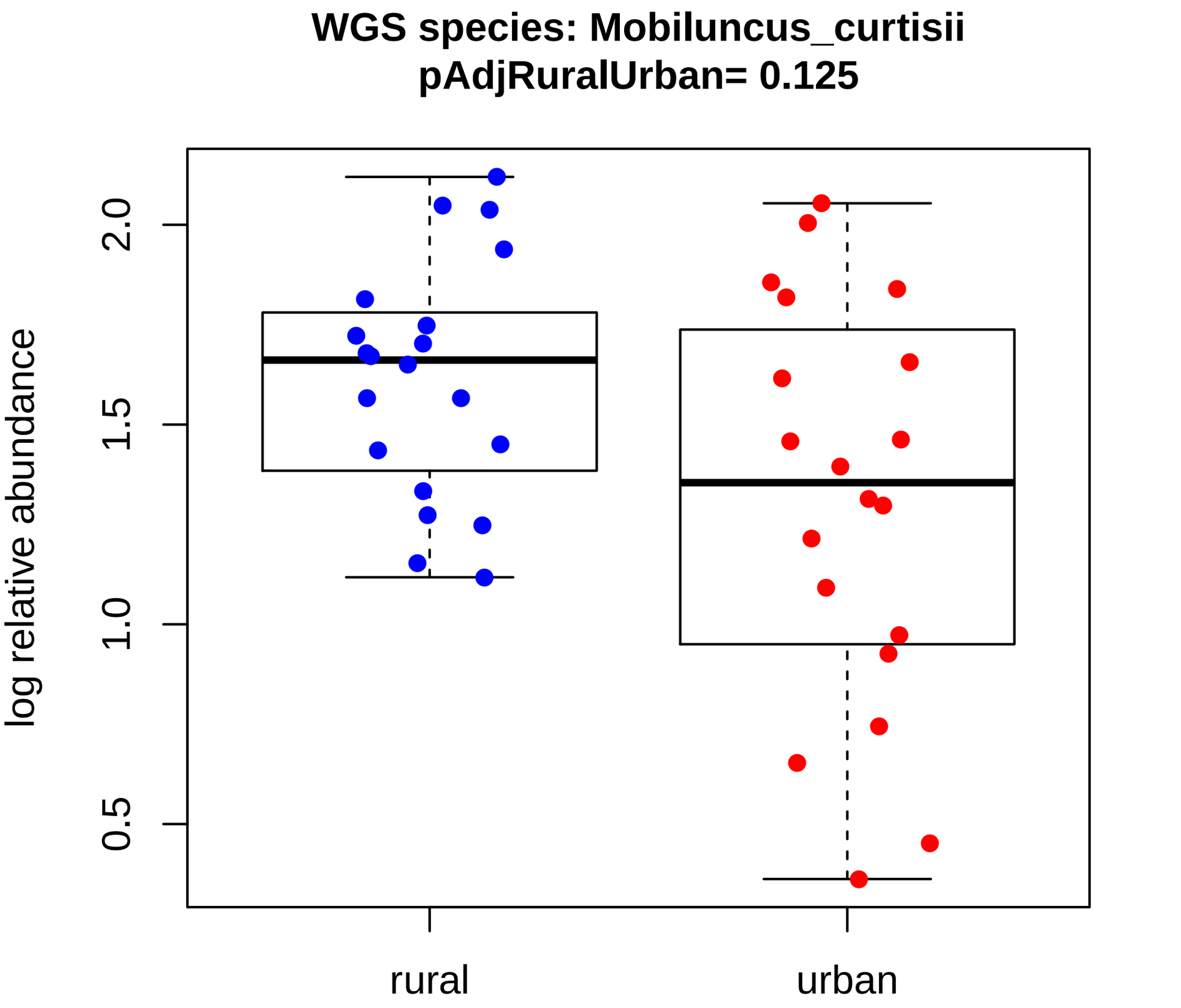

WGS species: Clostridium_saccharoperbutylacetonicum
pAdjRuralUrban= 0.125
log relative abundance
1.0
1.5
2.0
rural
urban

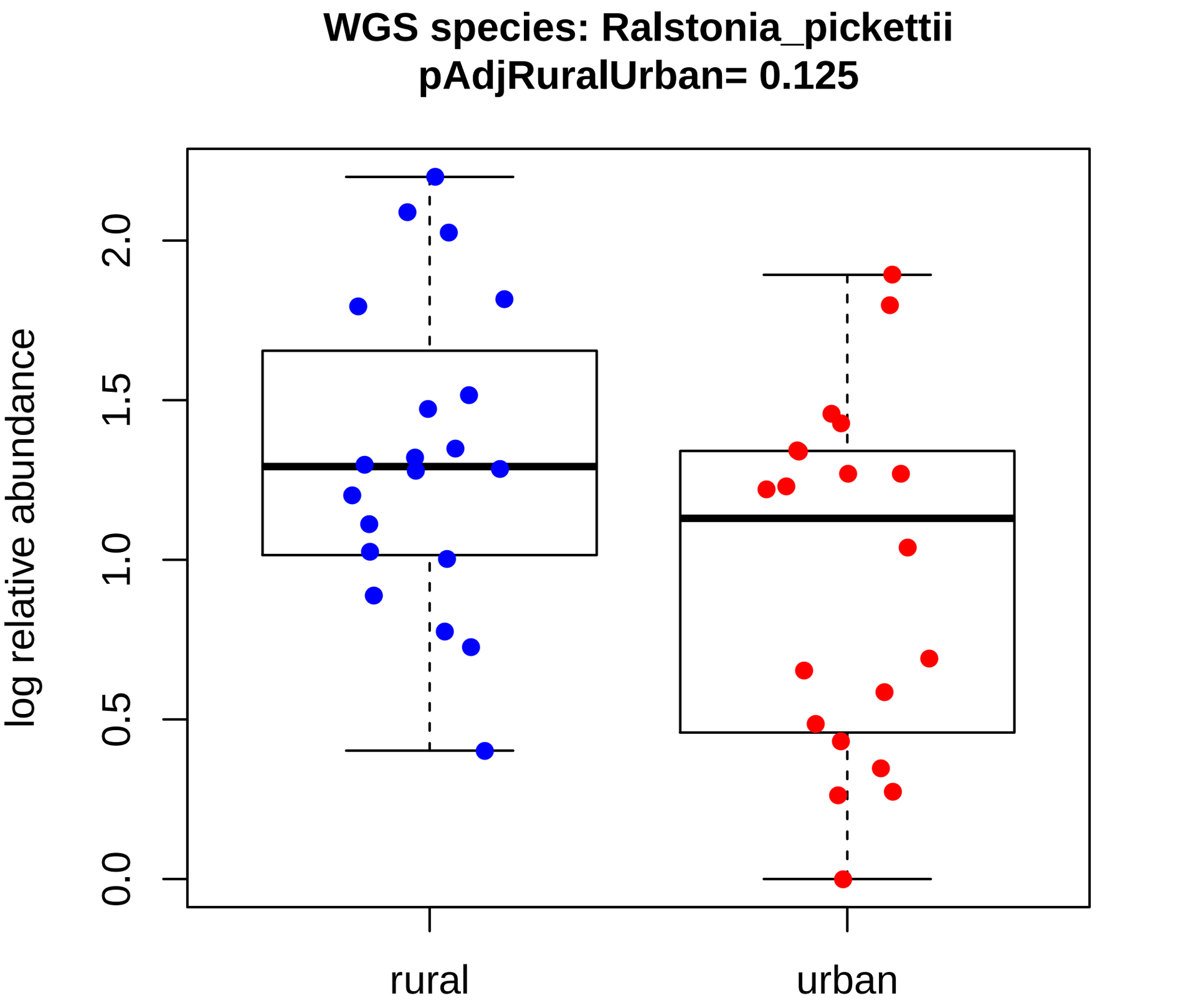

WGS species: Mycoplasma_crocodyli
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

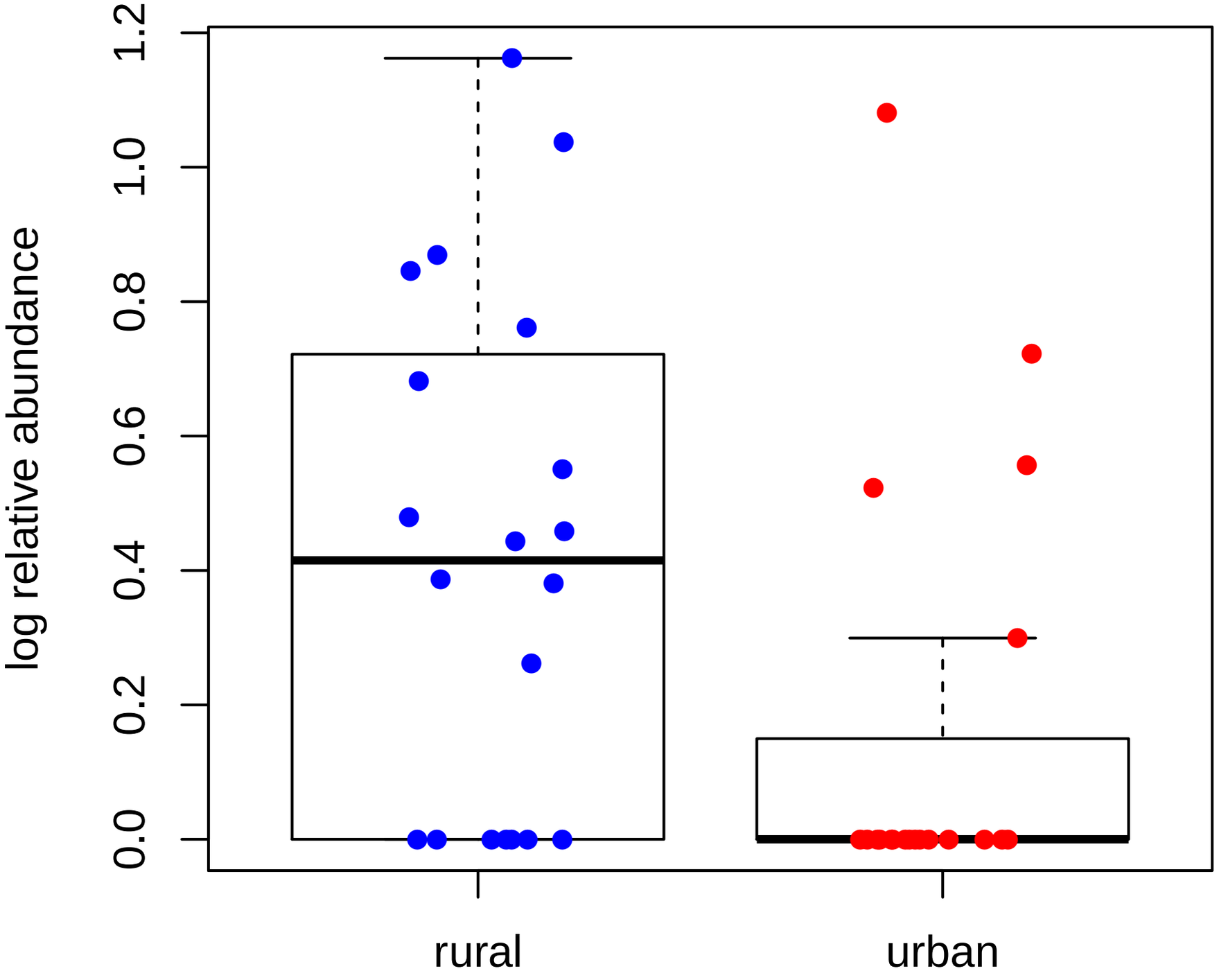

WGS species: Marivirga_tractuosa
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

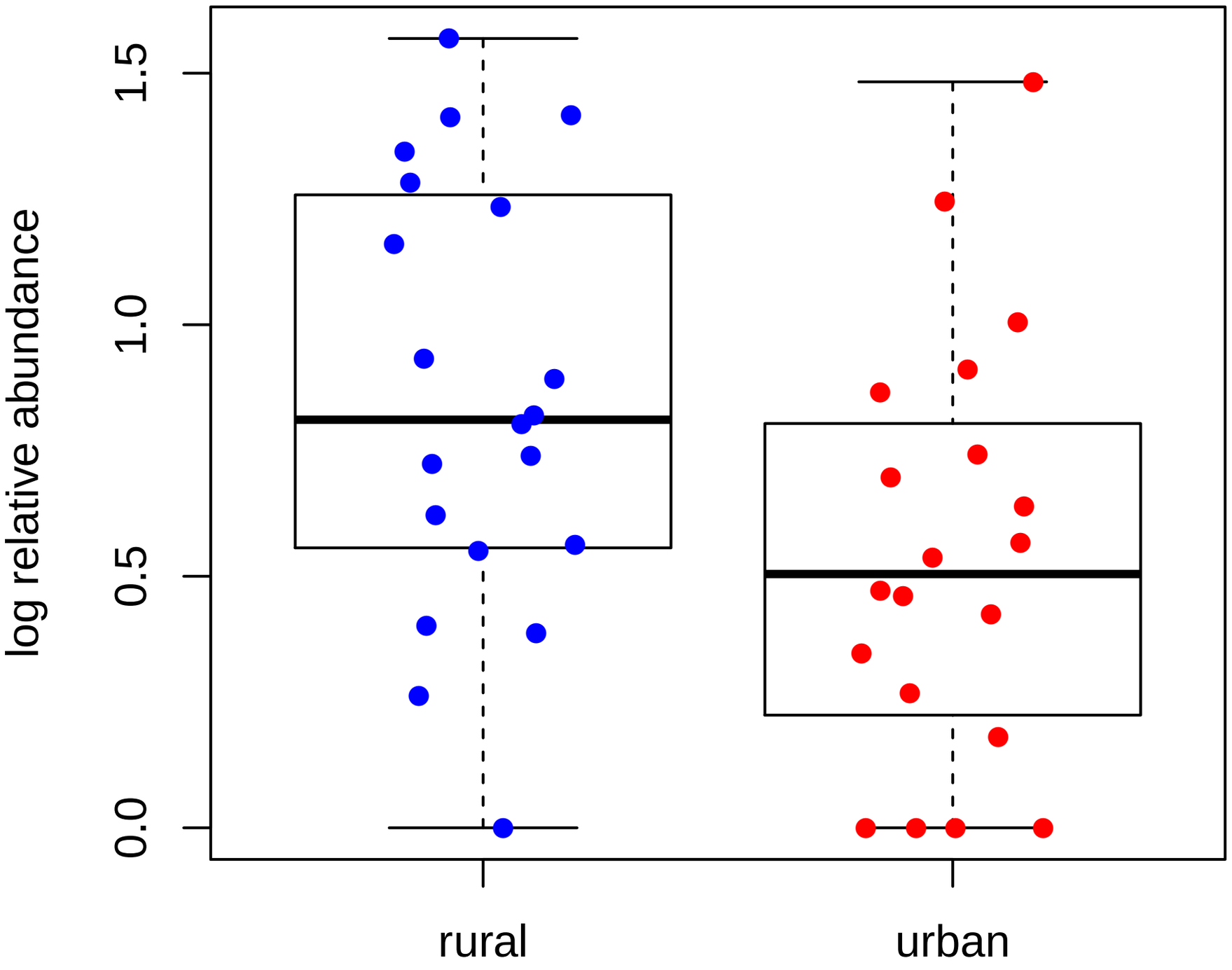

WGS species: Desulfotomaculum_reducens
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

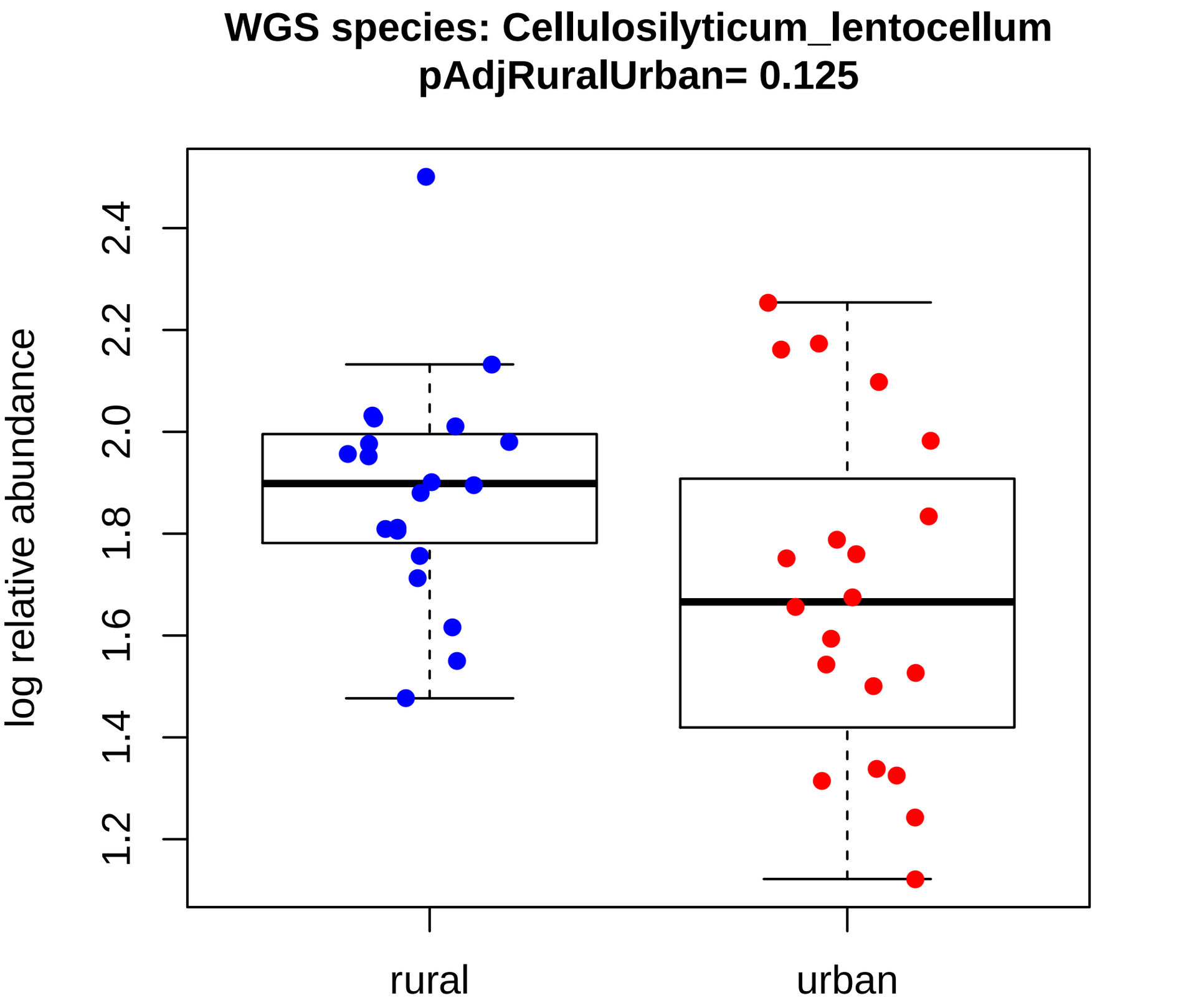

WGS species: Pelobacter_carbinolicus
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

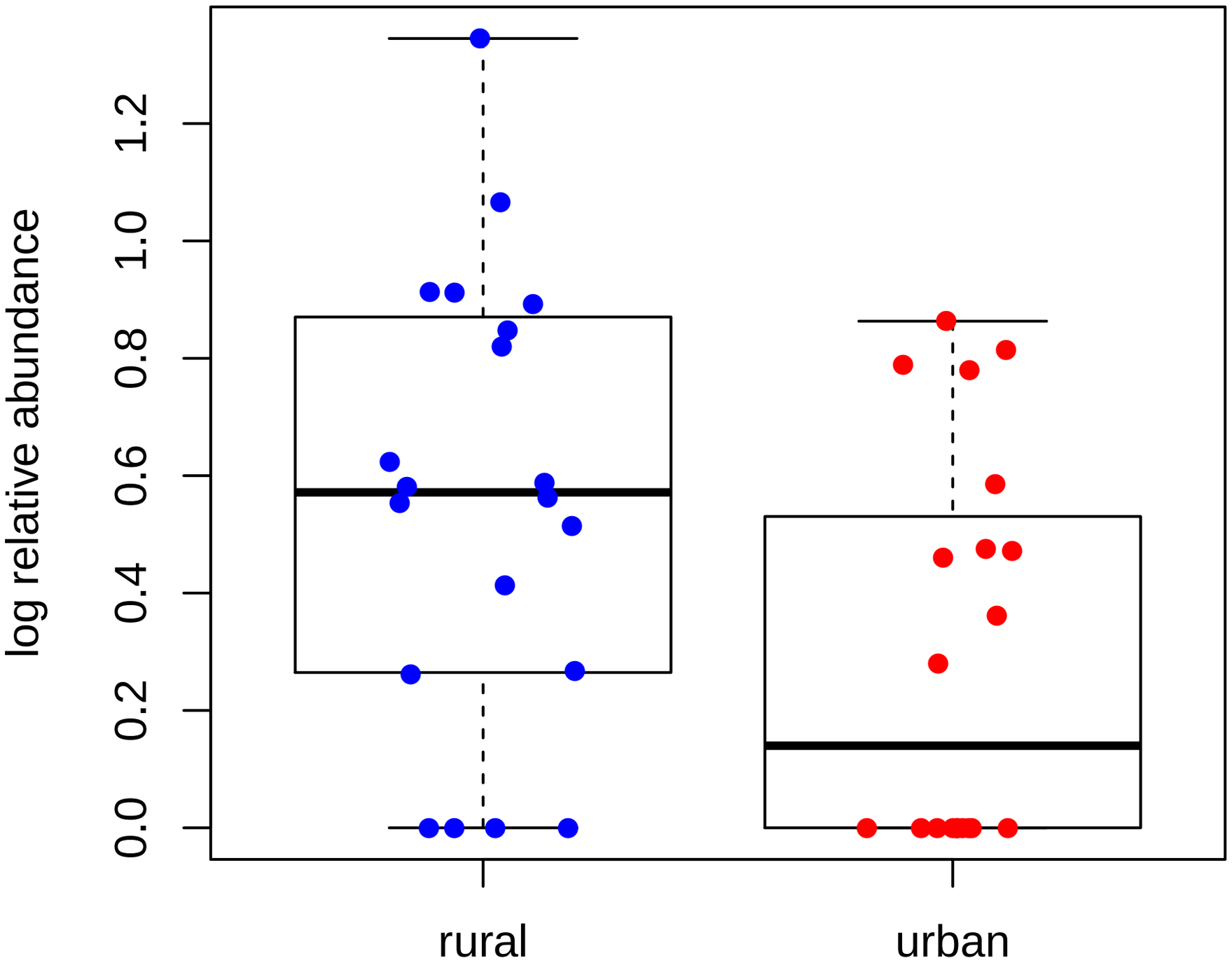

WGS species: Mobiluncus_curtisii
pAdjRuralUrban= 0.125
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

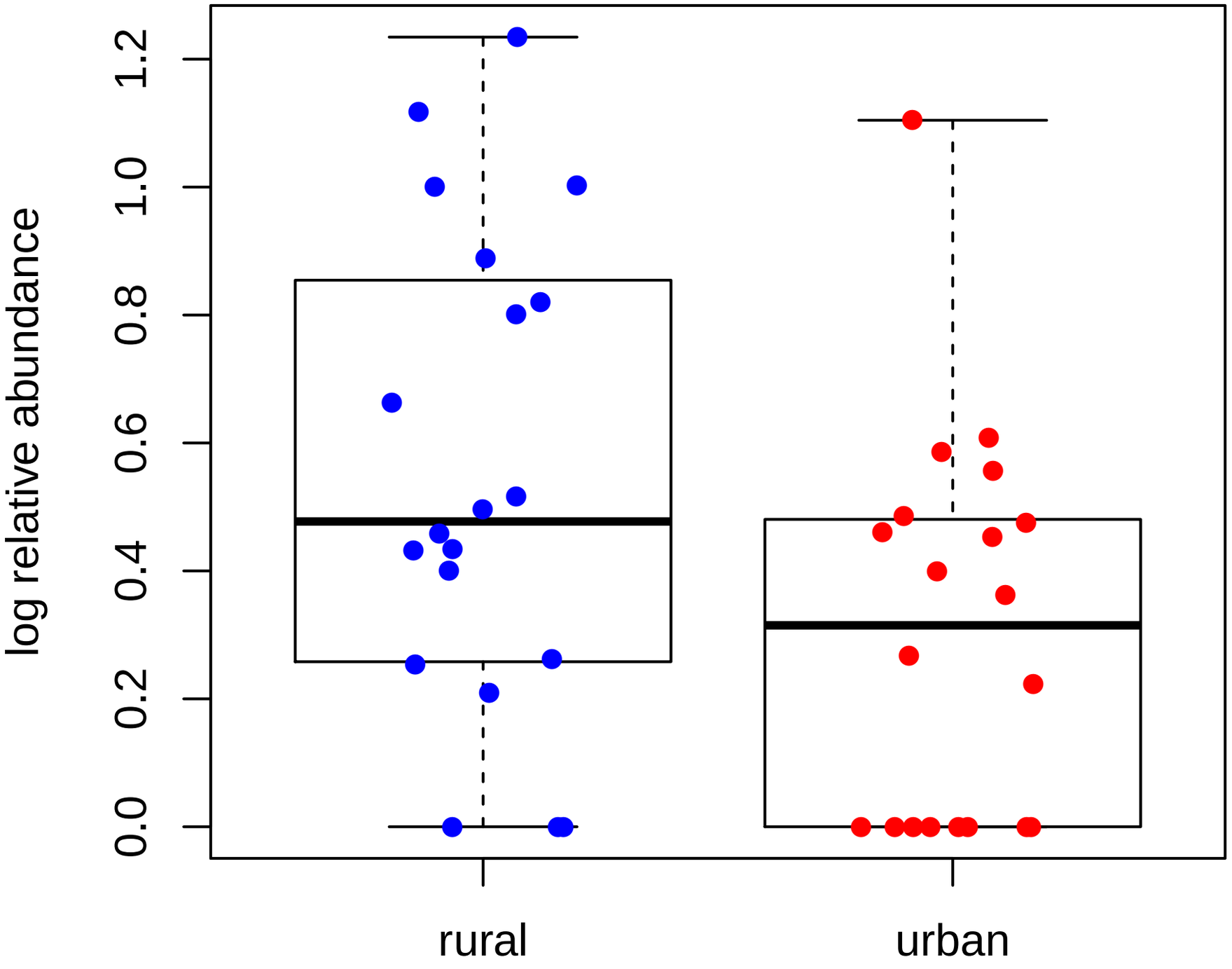

WGS species: Ralstonia_pickettii
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

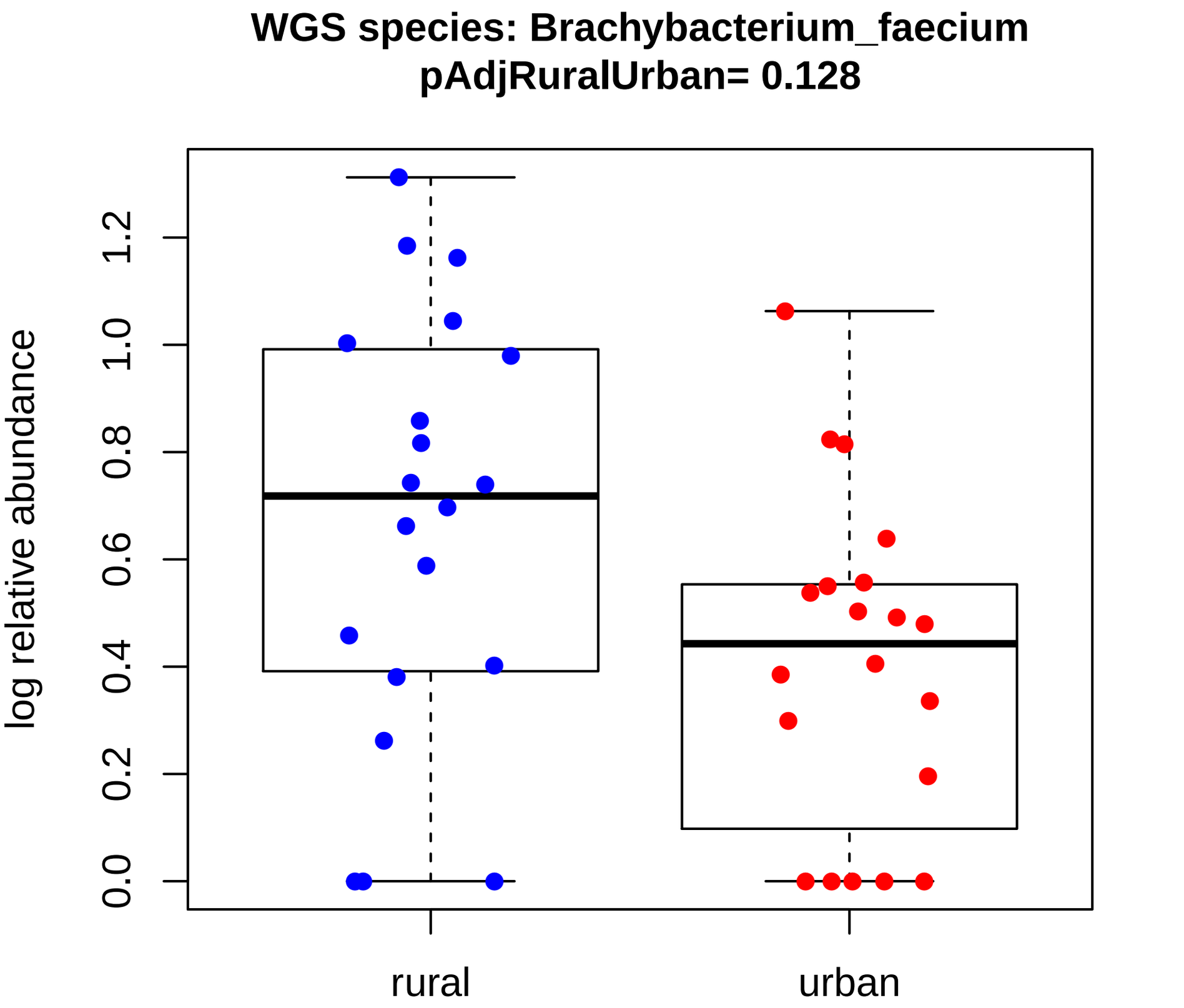

WGS species: Maricaulis_maris
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

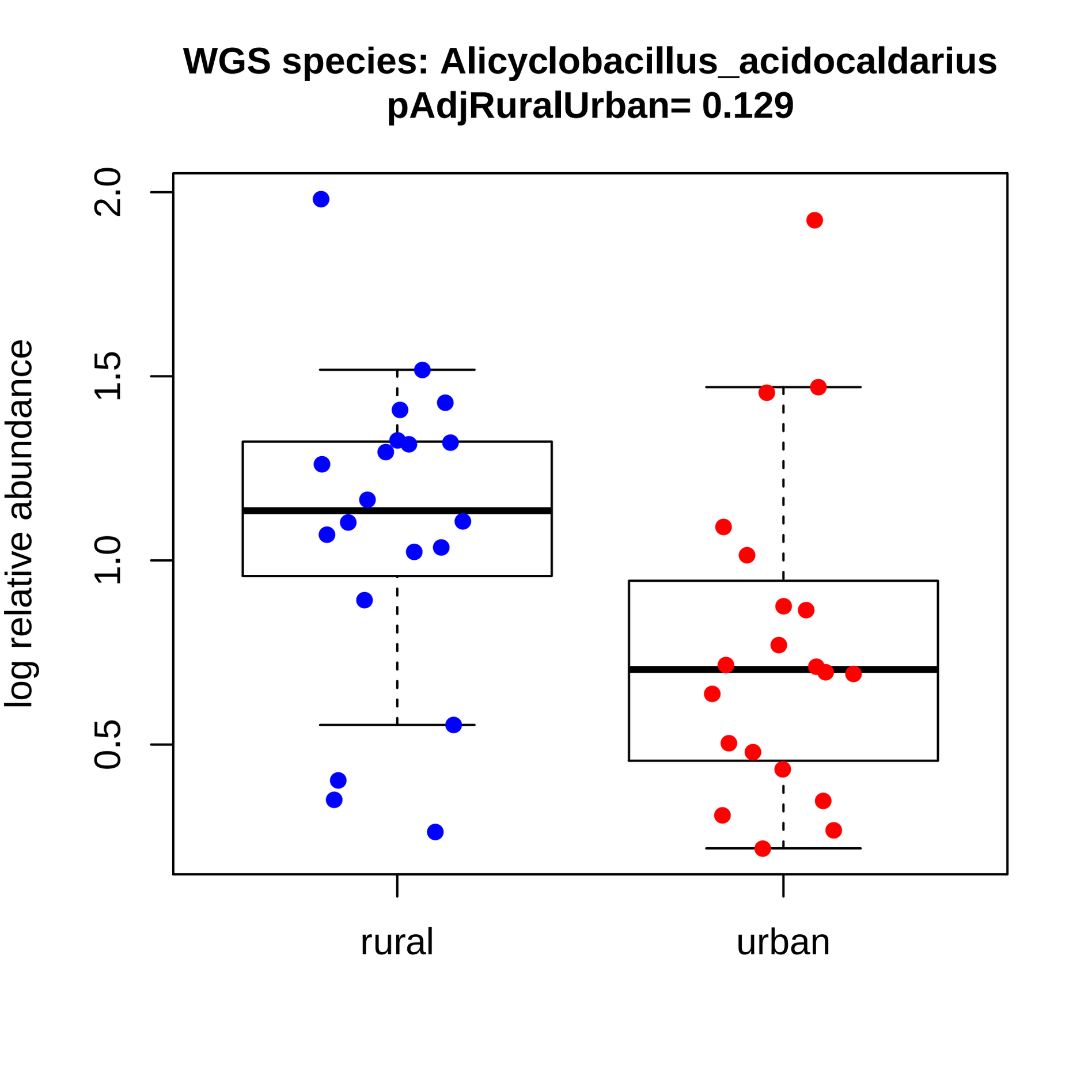

WGS species: Anaeromyxobacter_sp._Fw109.5
pAdjRuralUrban= 0.125
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

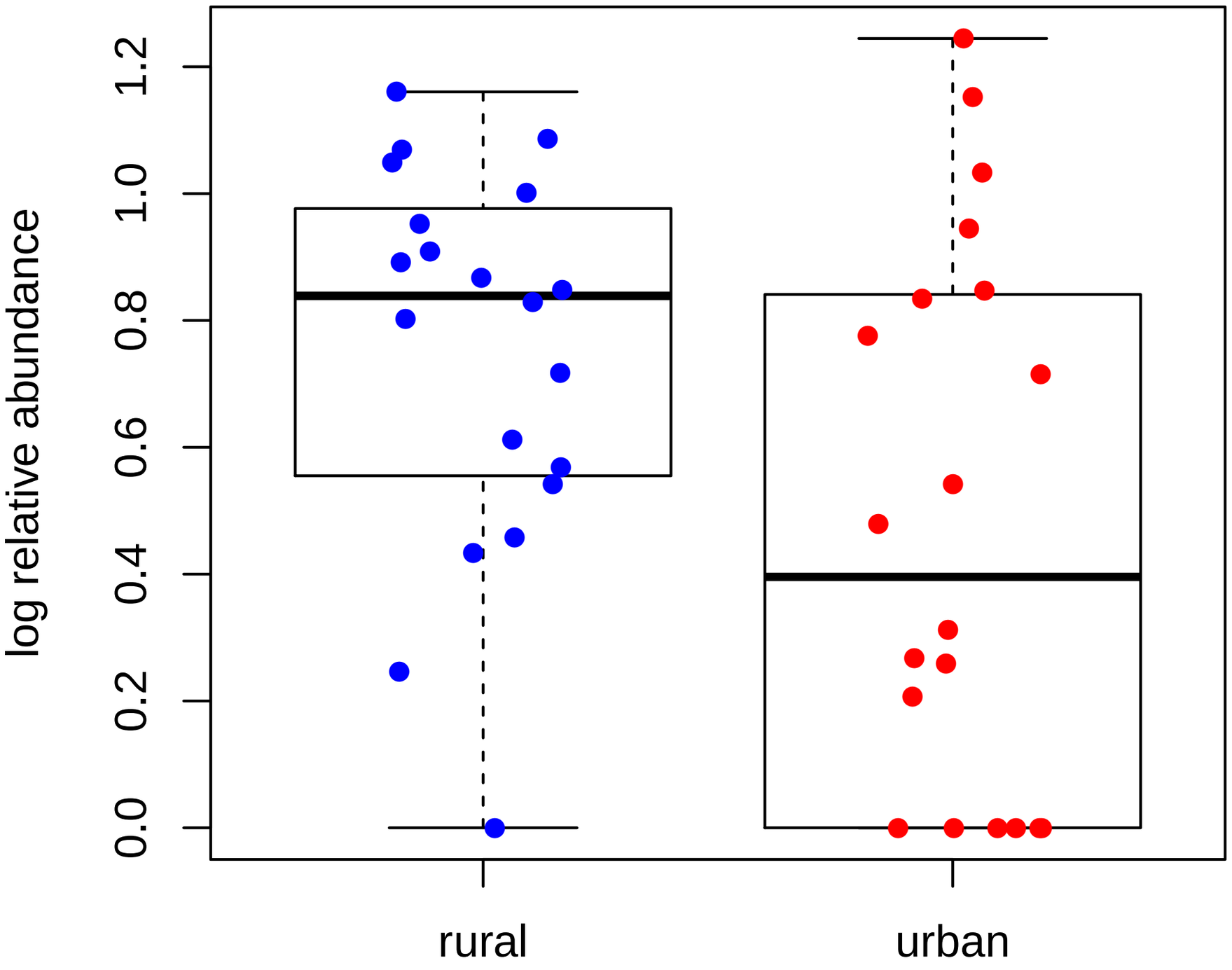

WGS species: Cellulosilyticum_lentocellum
pAdjRuralUrban= 0.125
log relative abundance
1.2
1.4
1.6
1.8
2.0
2.2
2.4
rural
urban

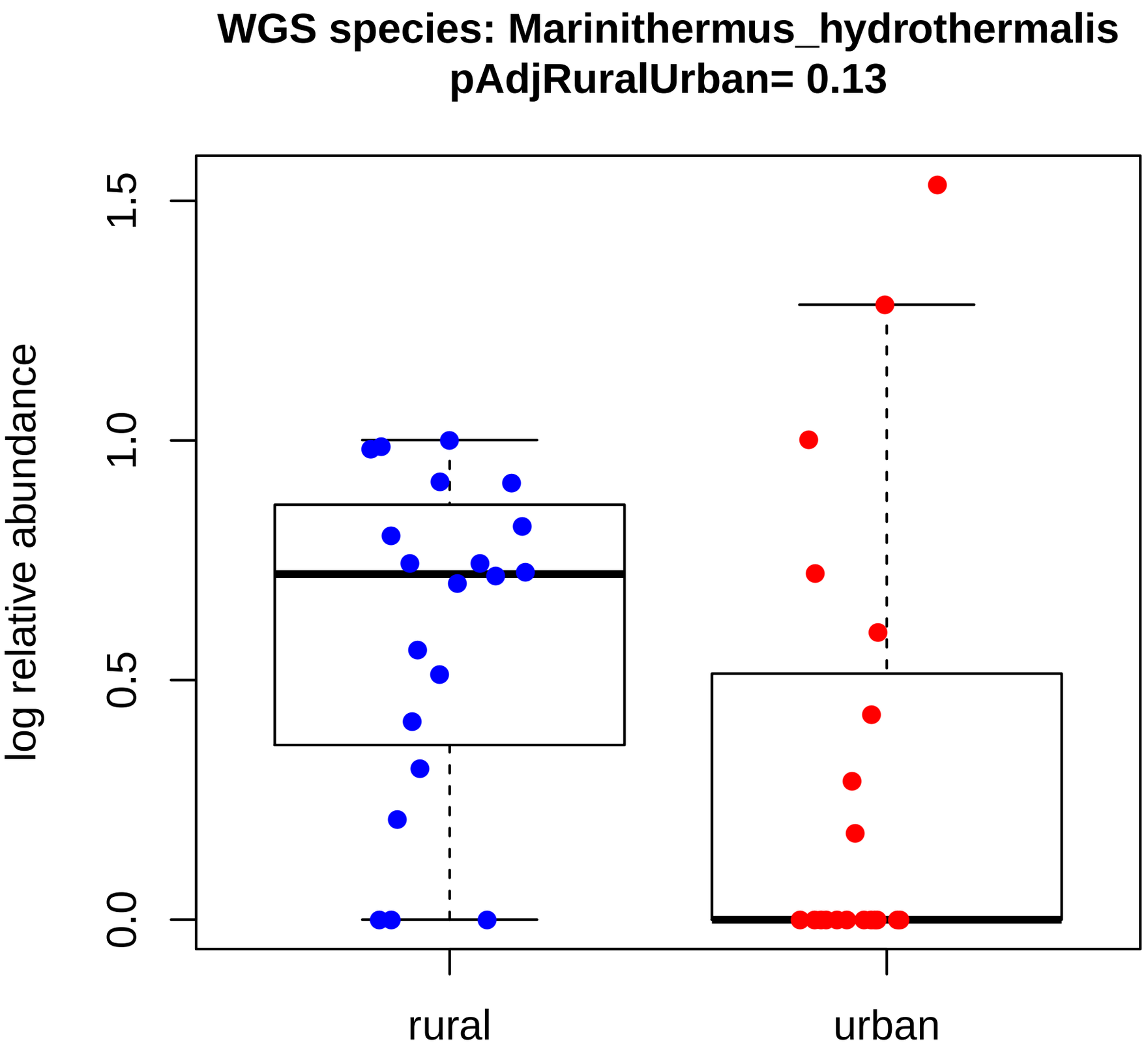

WGS species: Staphylococcus_carnosus
pAdjRuralUrban= 0.128
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

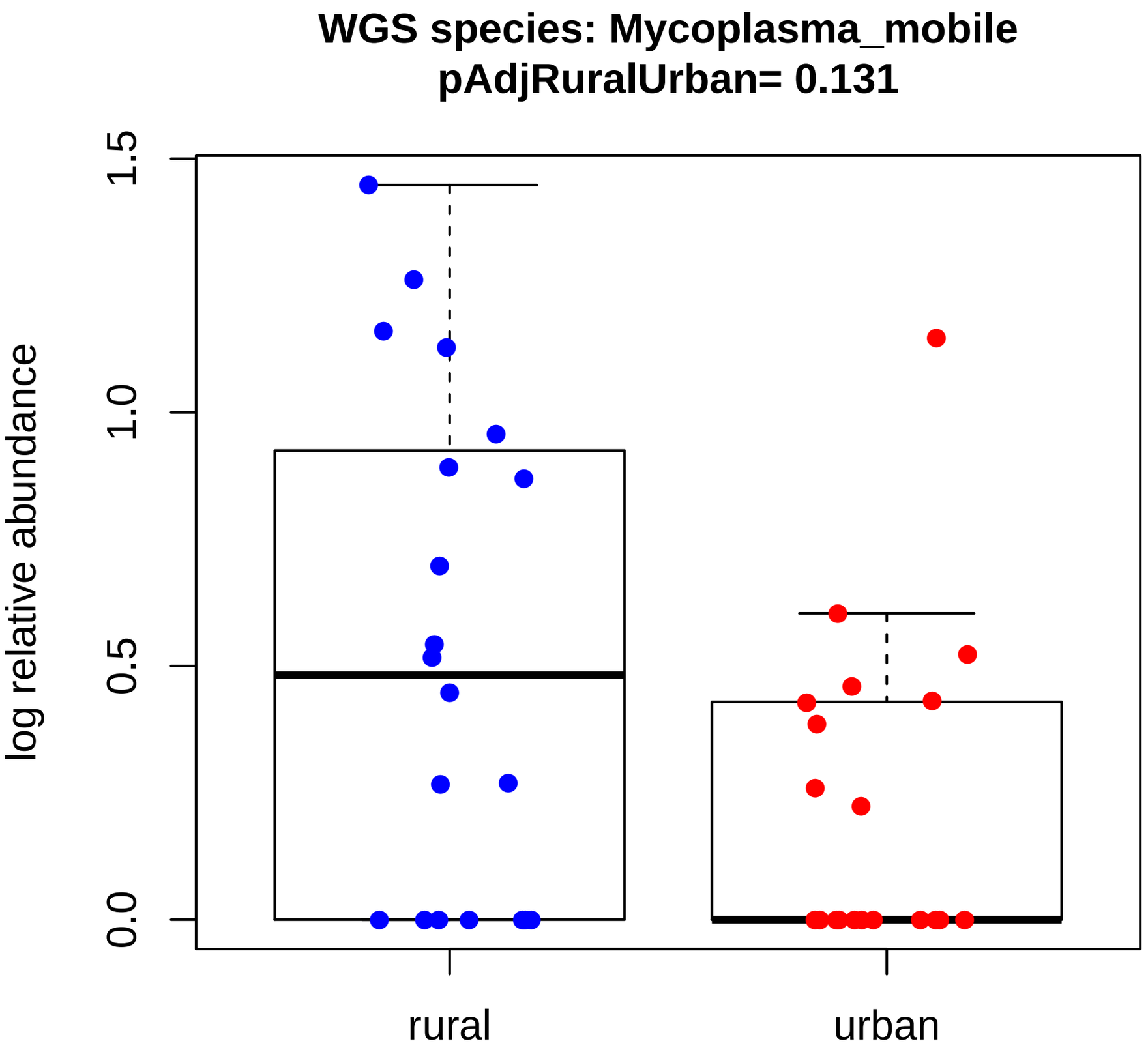

WGS species: Psychromonas_ingrahamii
pAdjRuralUrban= 0.128
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

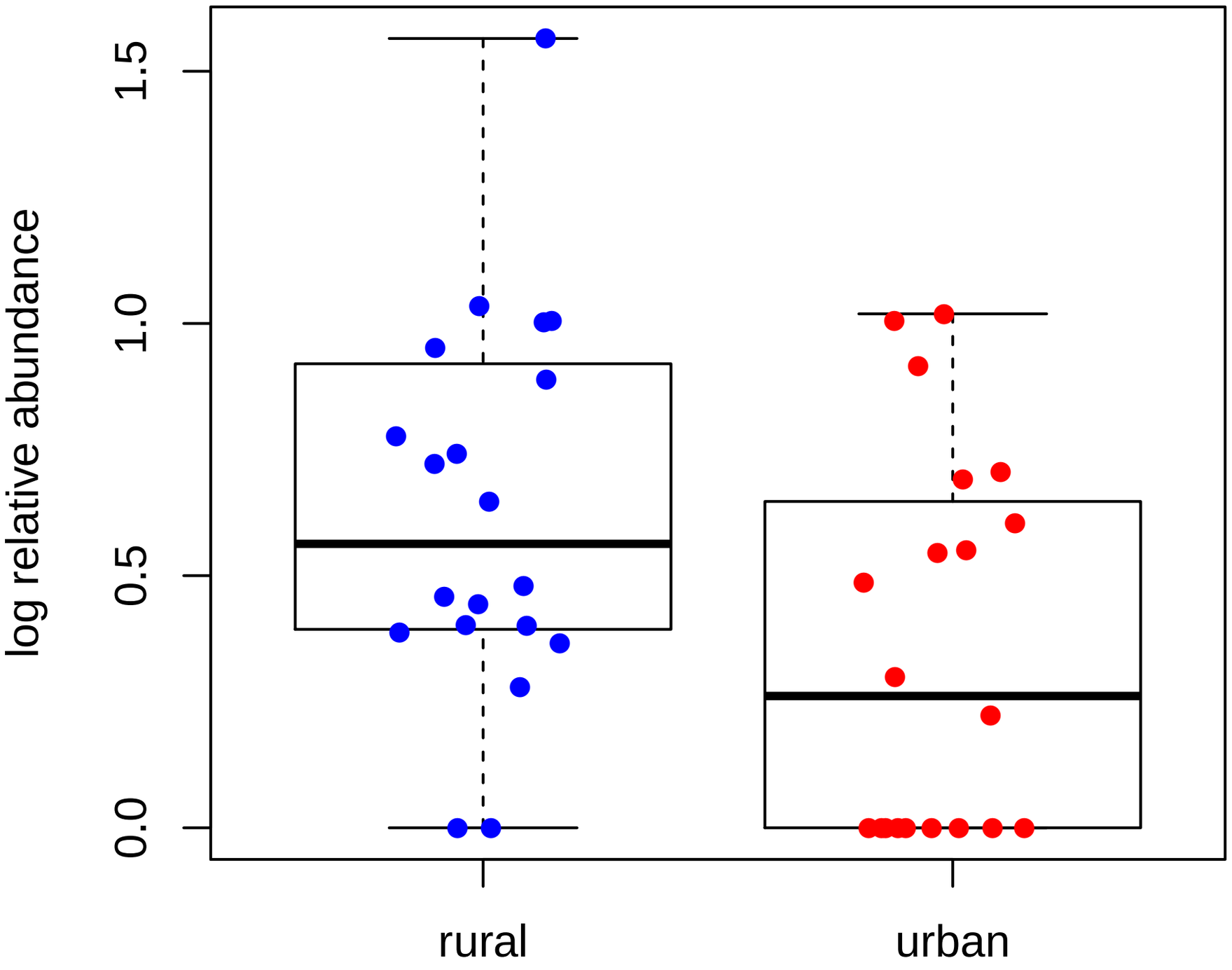

WGS species: Brachybacterium_faecium
pAdjRuralUrban= 0.128
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

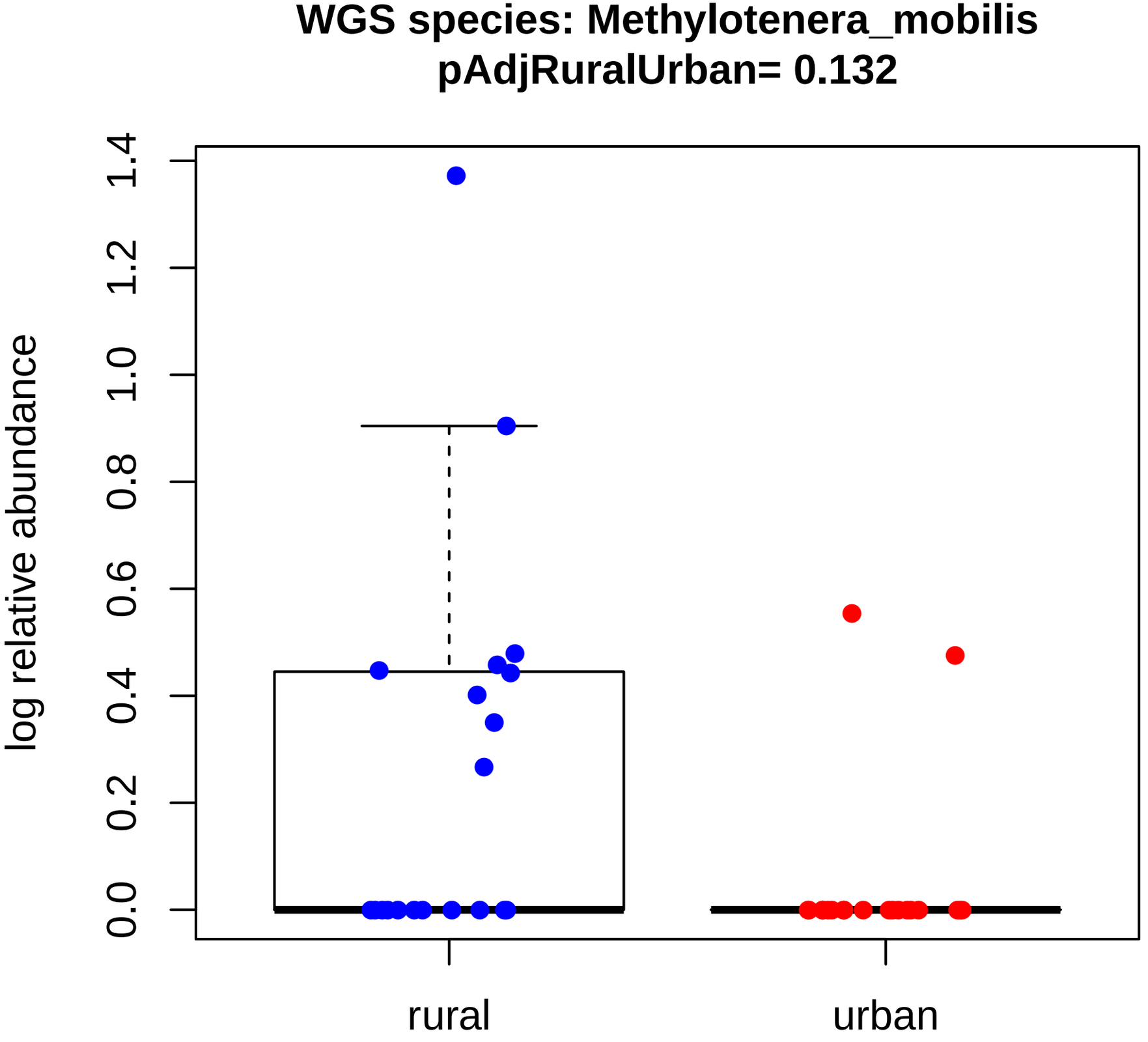

WGS species: Alicyclobacillus_acidocaldarius
pAdjRuralUrban= 0.129
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

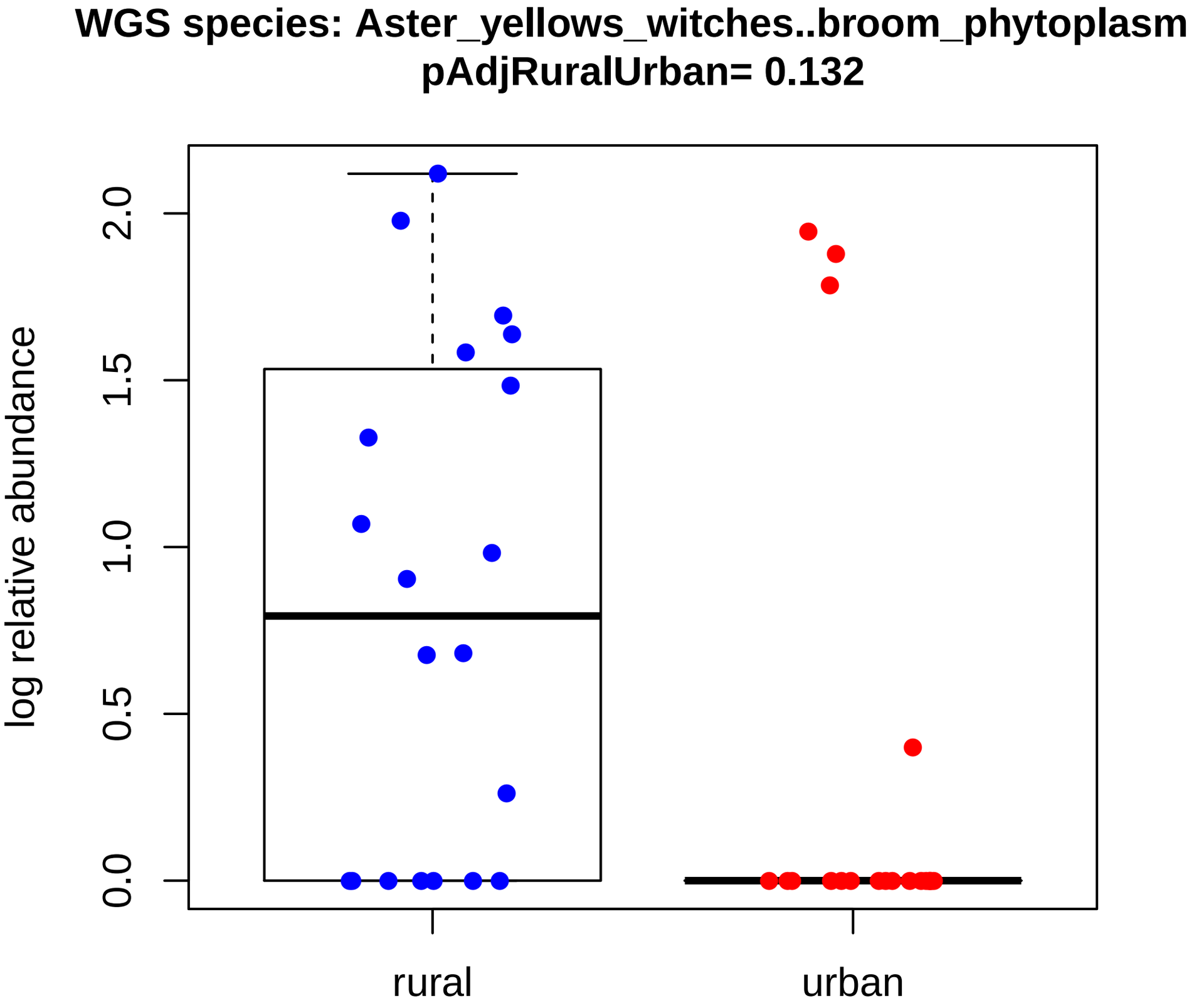

WGS species: Desulfatibacillum_alkenivorans
pAdjRuralUrban= 0.13
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

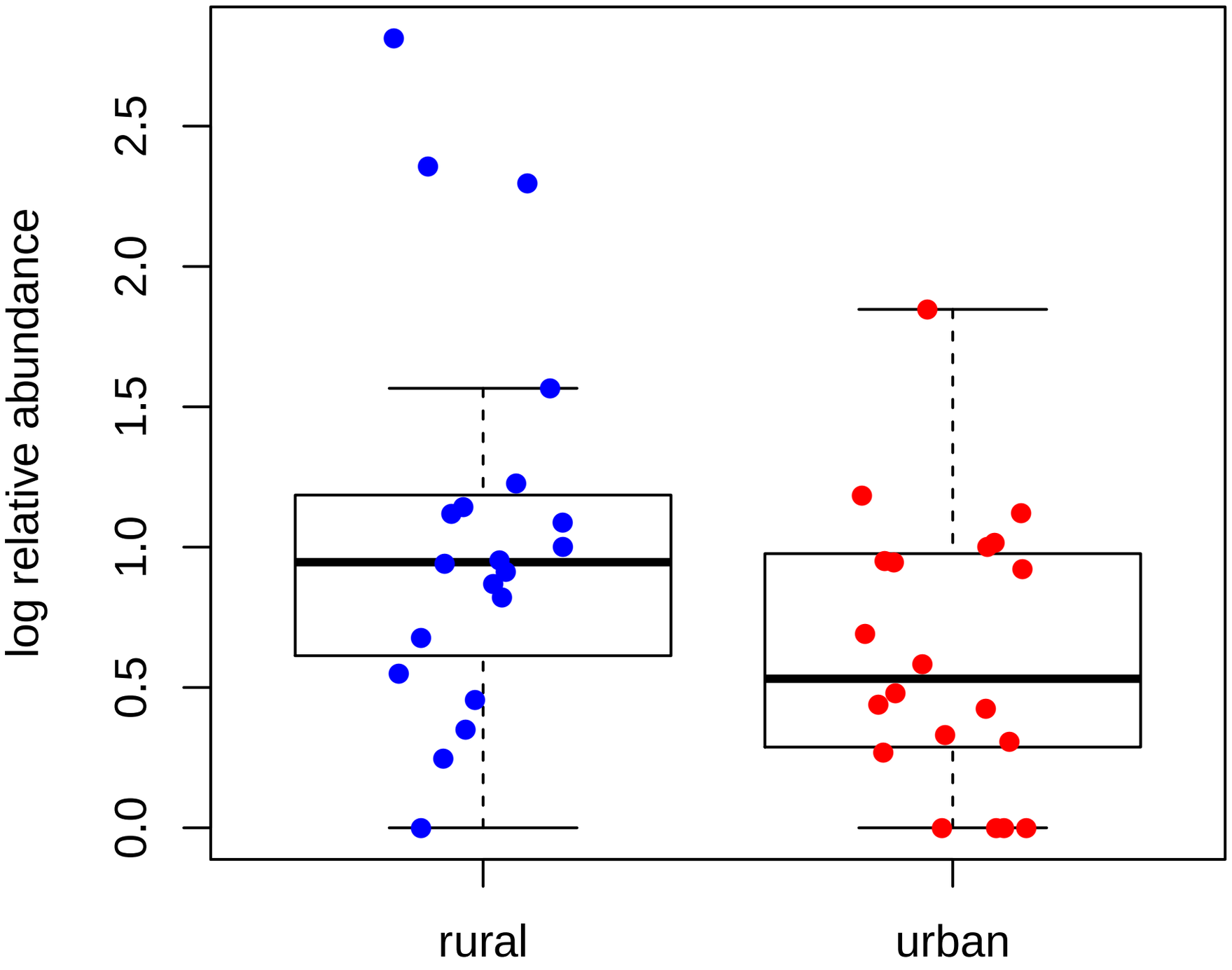

WGS species: Marinithermus_hydrothermalis
pAdjRuralUrban= 0.13
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

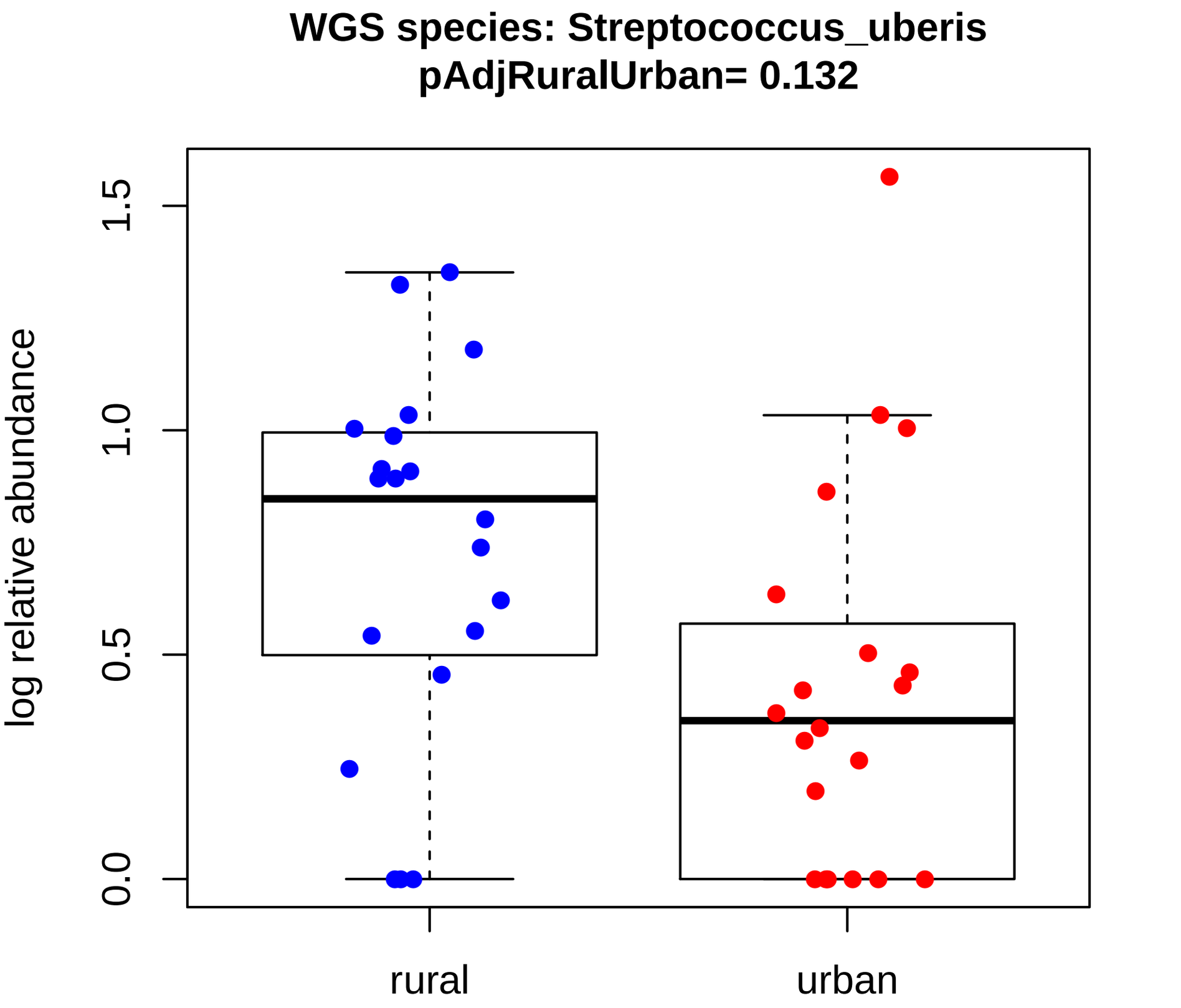

WGS species: Mycoplasma_mobile
pAdjRuralUrban= 0.131
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

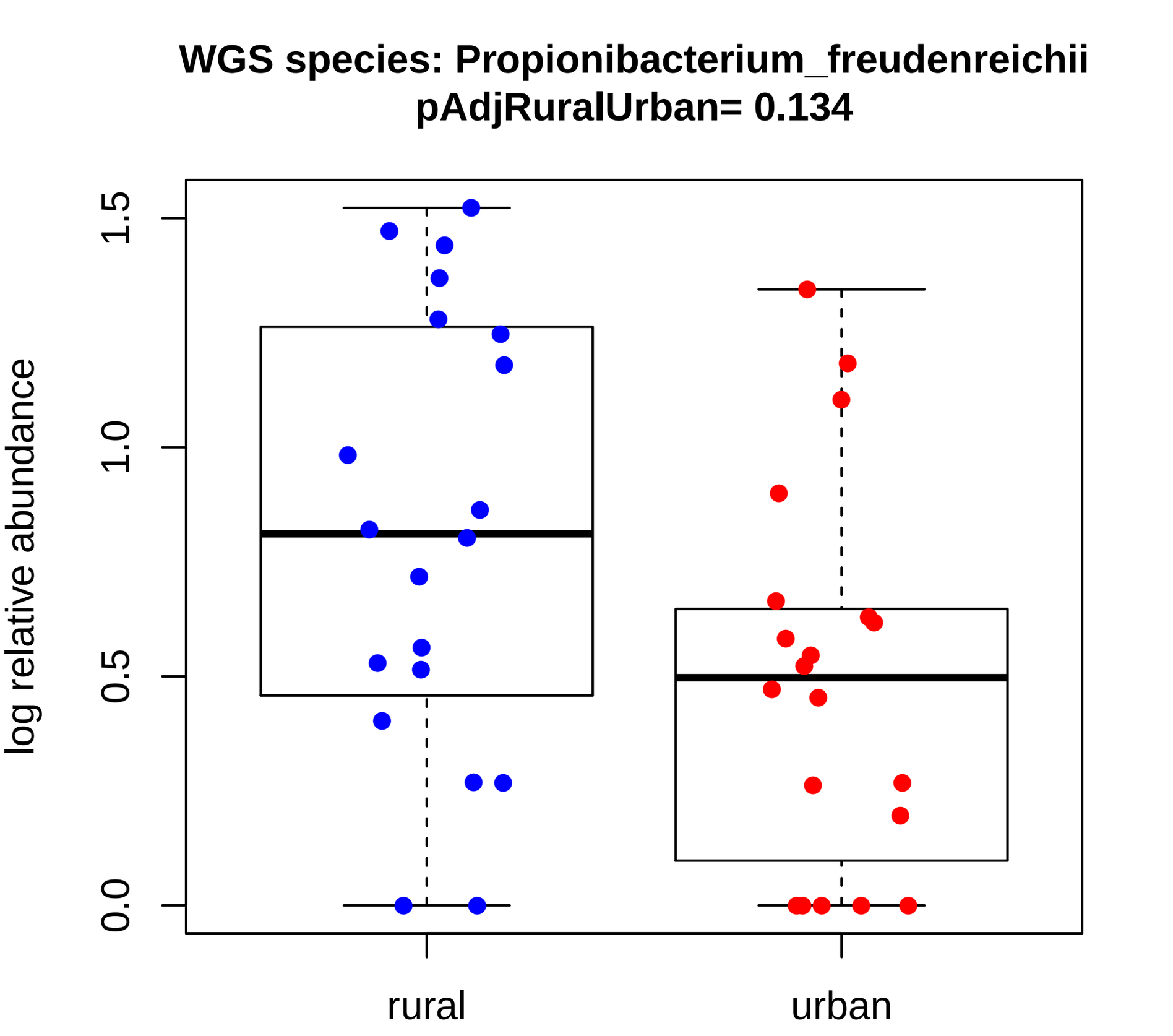

WGS species: Flavobacterium_columnare
pAdjRuralUrban= 0.131
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

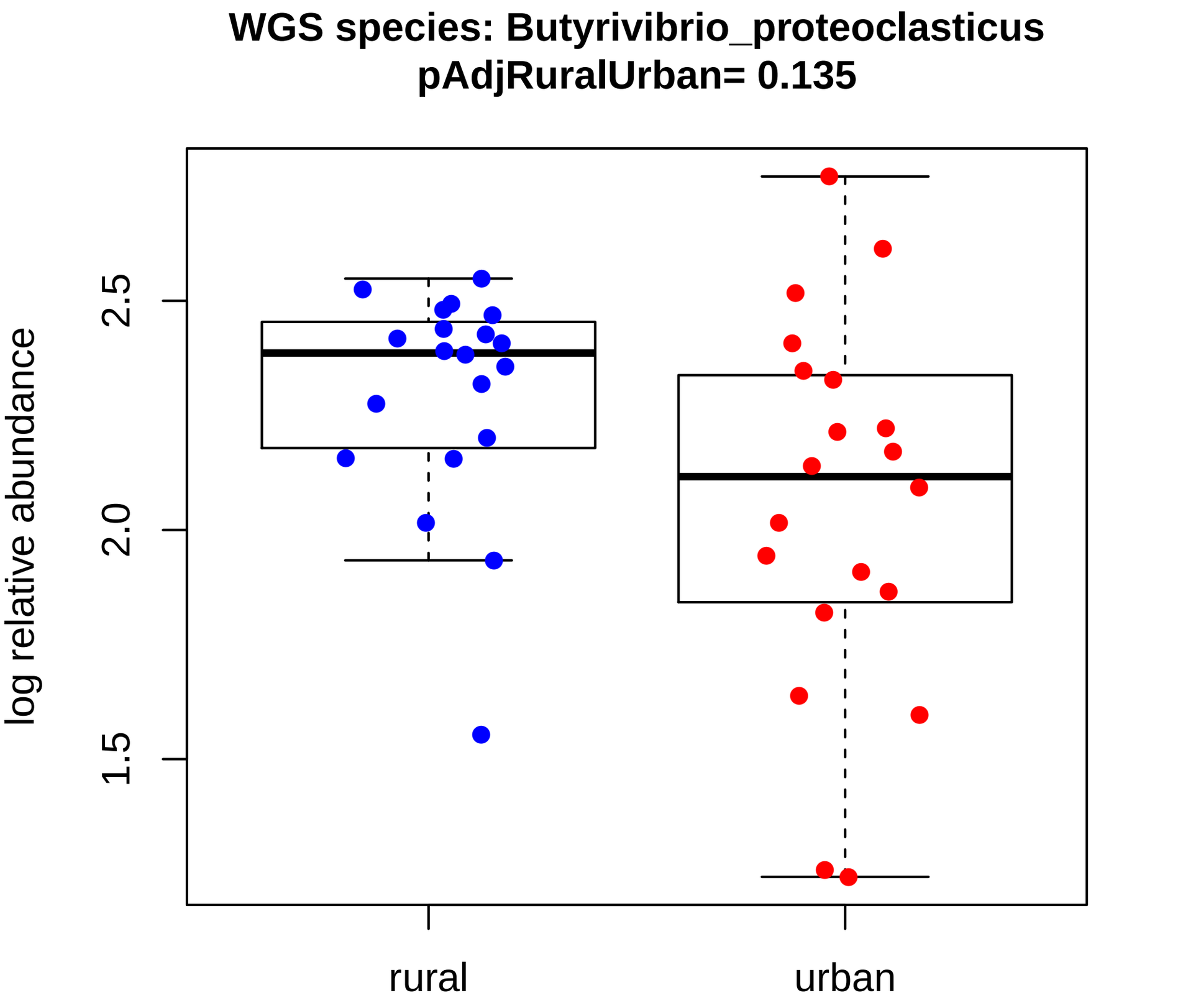

WGS species: Methylotenera_mobilis
pAdjRuralUrban= 0.132
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

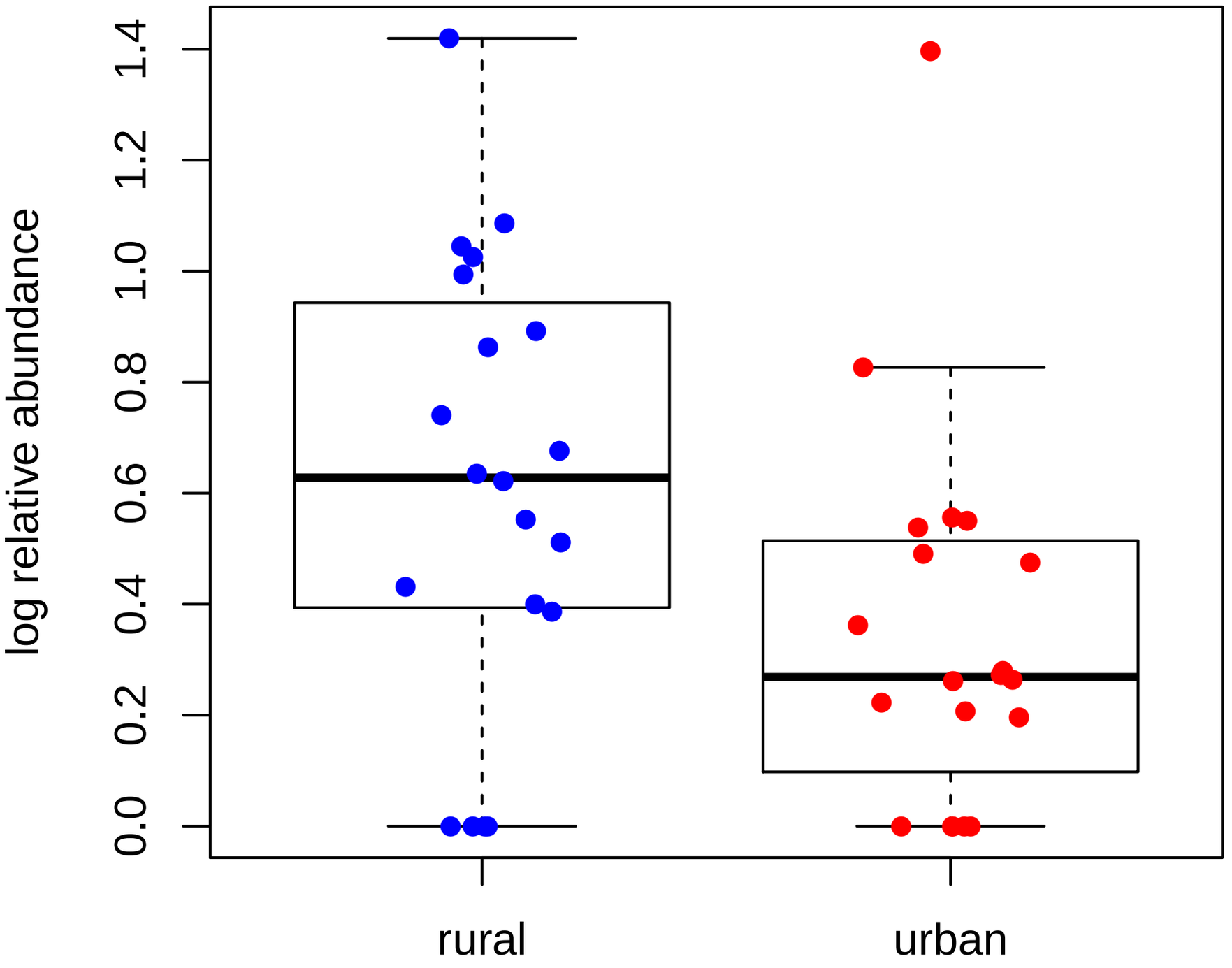

WGS species: Aster_yellows_witches..broom_phytoplasma
pAdjRuralUrban= 0.132
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

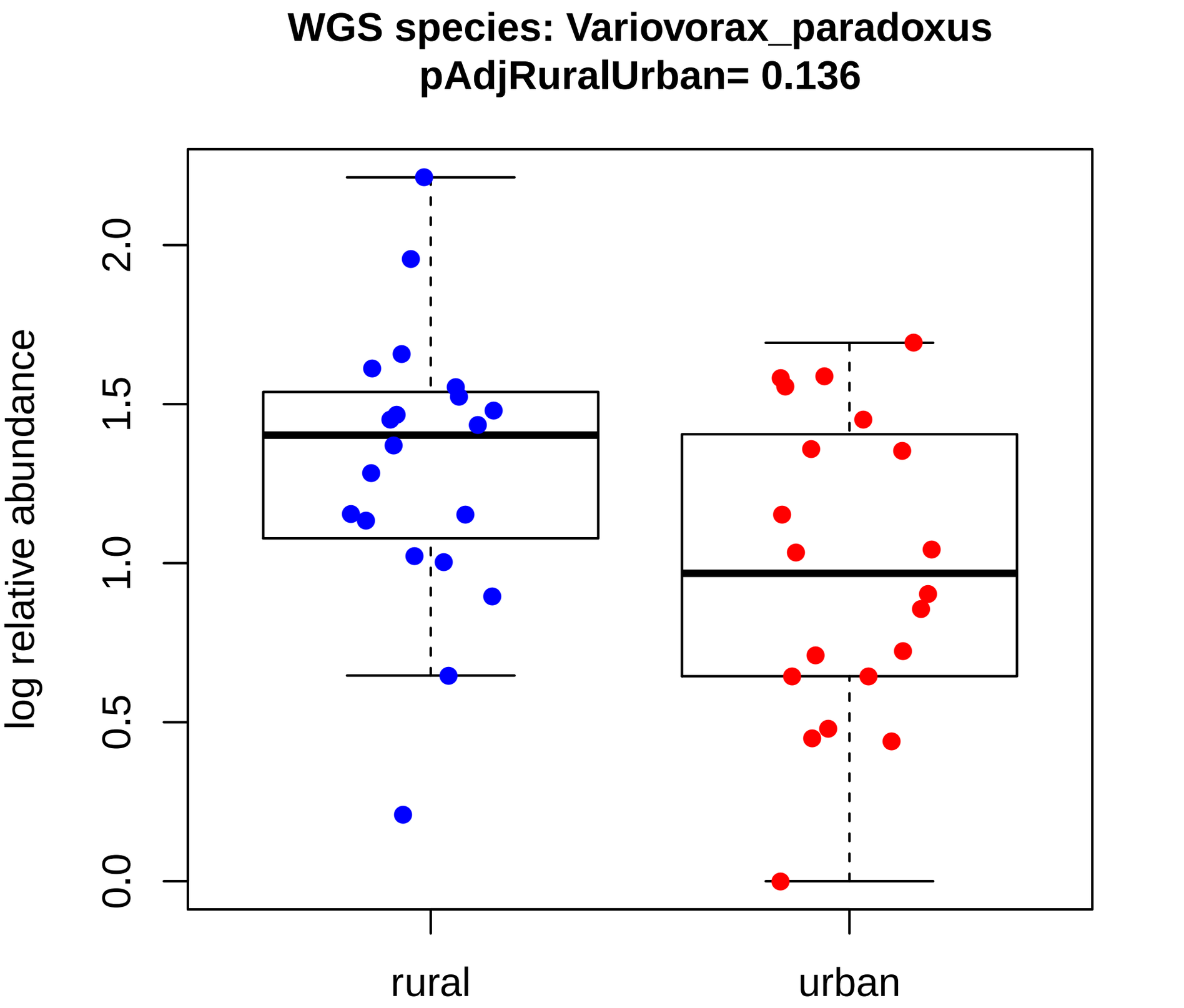

WGS species: Lactobacillus_reuteri
pAdjRuralUrban= 0.132
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

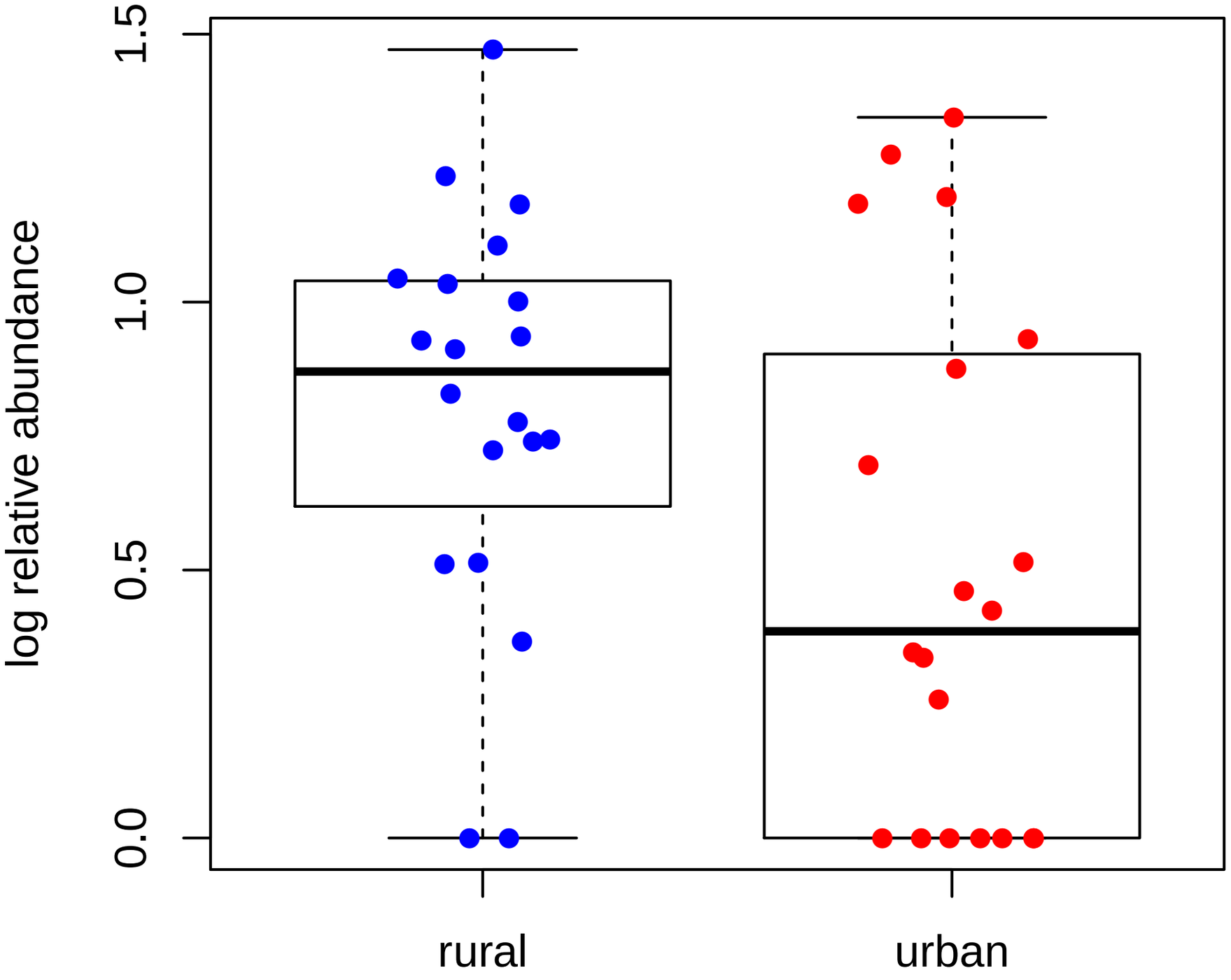

WGS species: Streptococcus_uberis
pAdjRuralUrban= 0.132
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

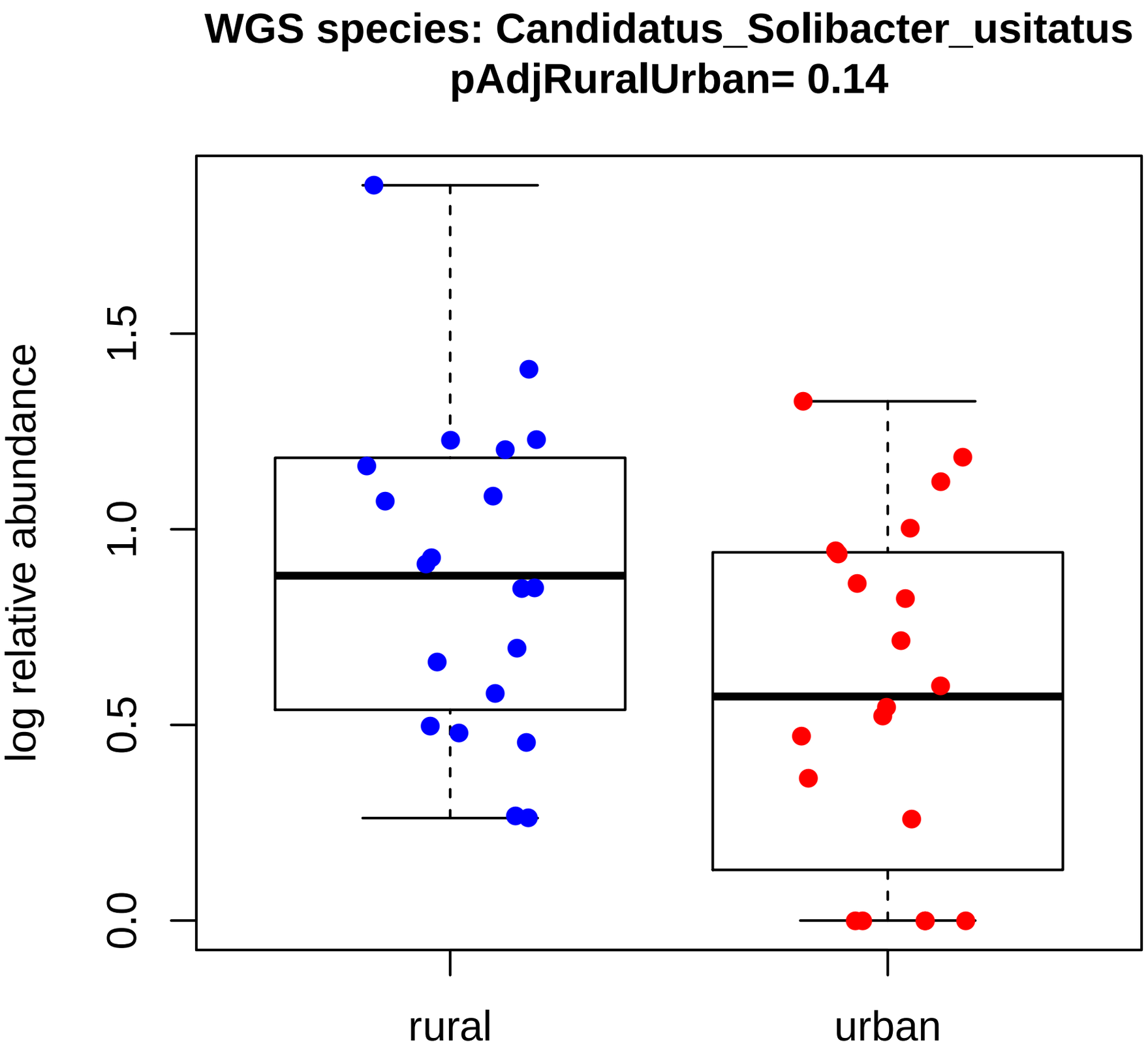

WGS species: Propionibacterium_freudenreichii
pAdjRuralUrban= 0.134
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

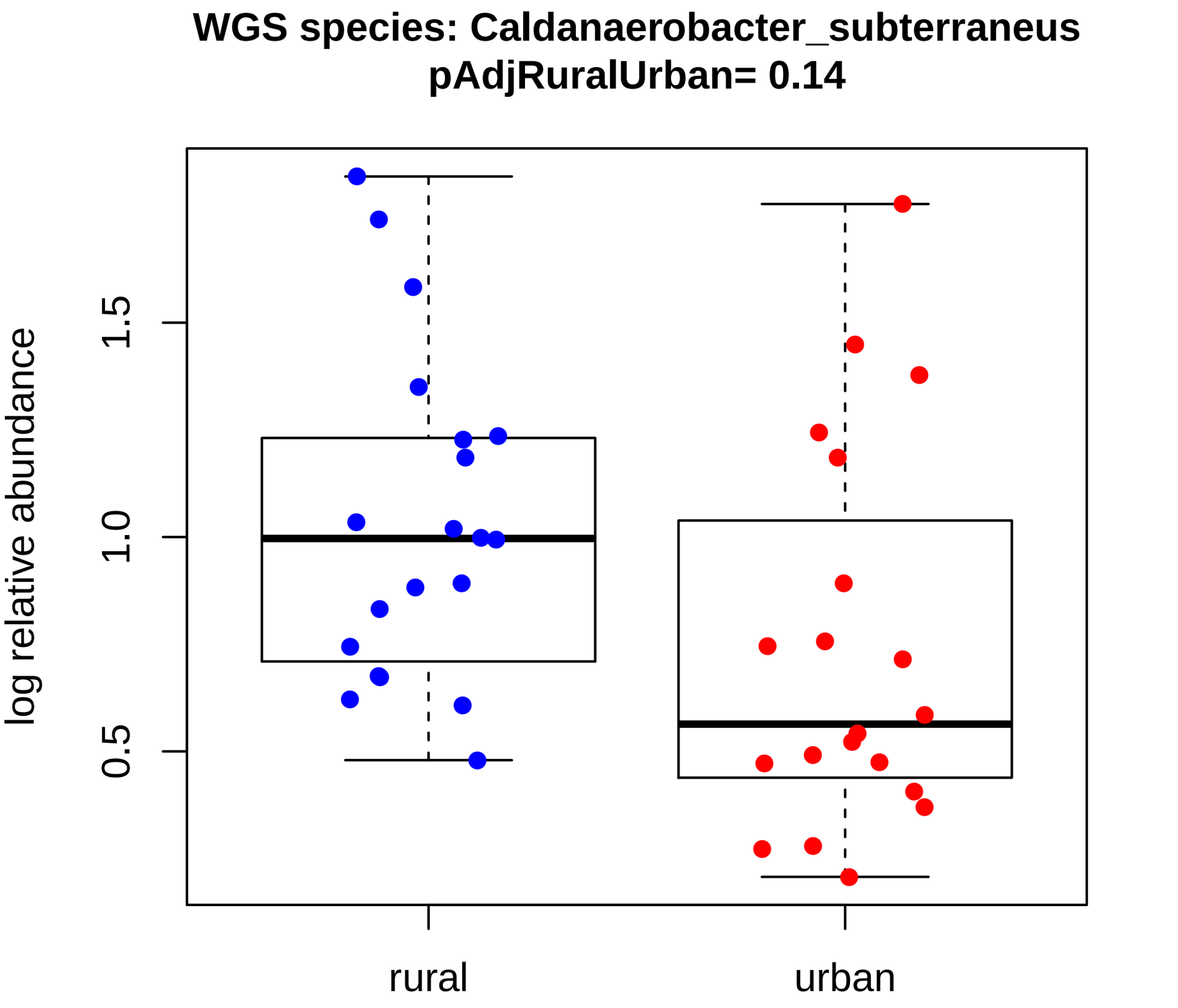

WGS species: Butyrivibrio_proteoclasticus
pAdjRuralUrban= 0.135
log relative abundance
2.5
2.0
1.5
rural
urban

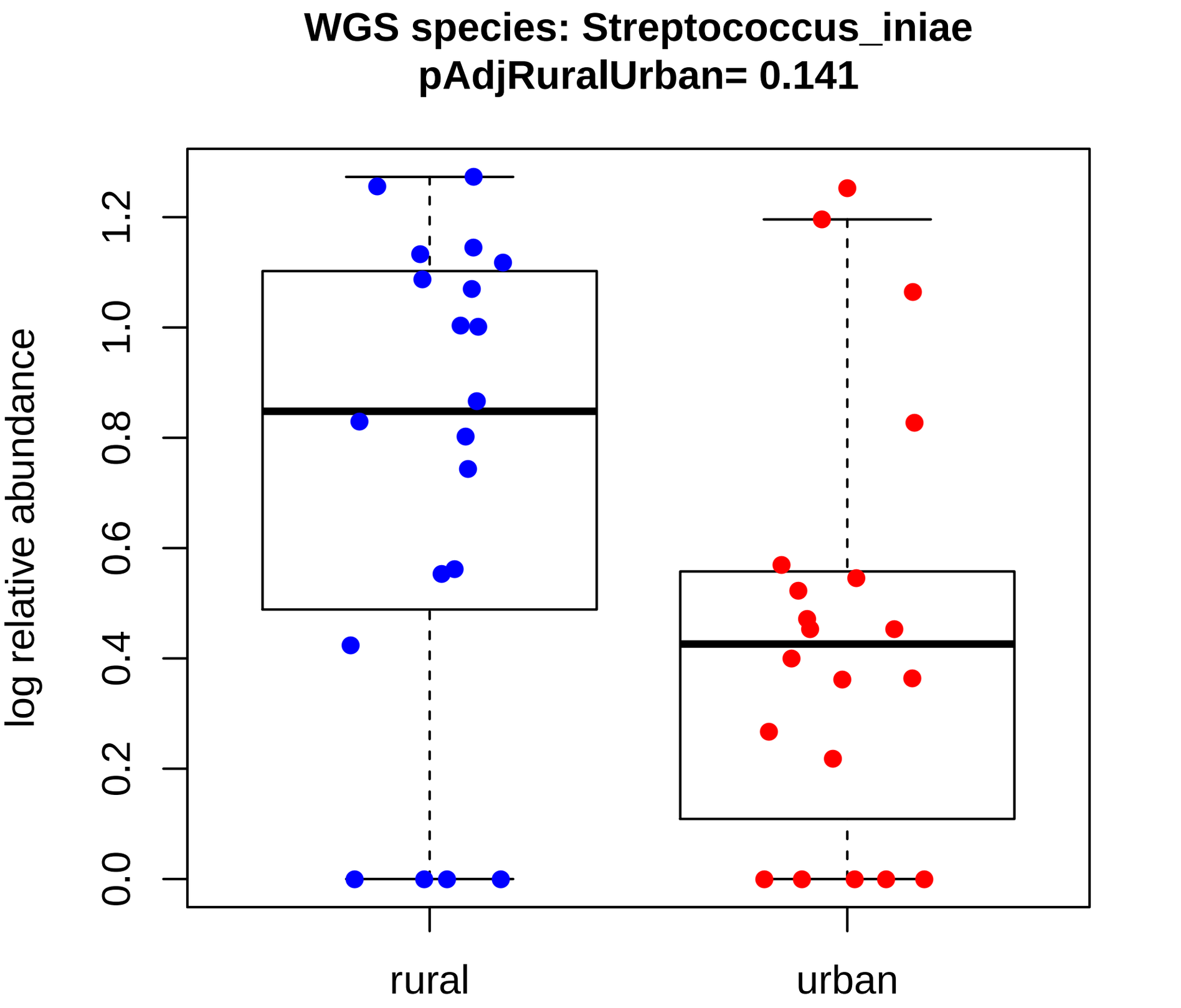

WGS species: Rhodospirillum_photometricum
pAdjRuralUrban= 0.135
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

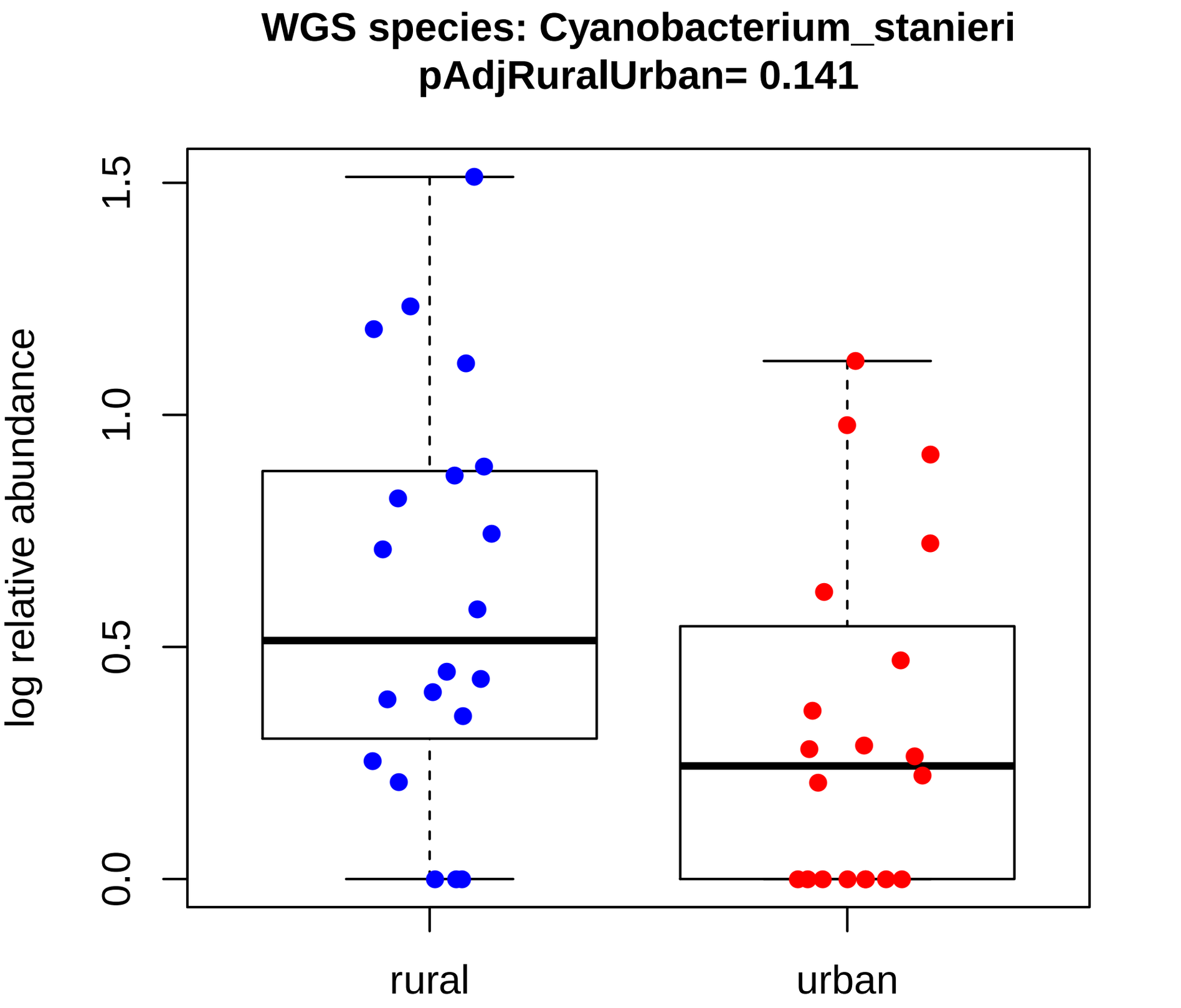

WGS species: Variovorax_paradoxus
pAdjRuralUrban= 0.136
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

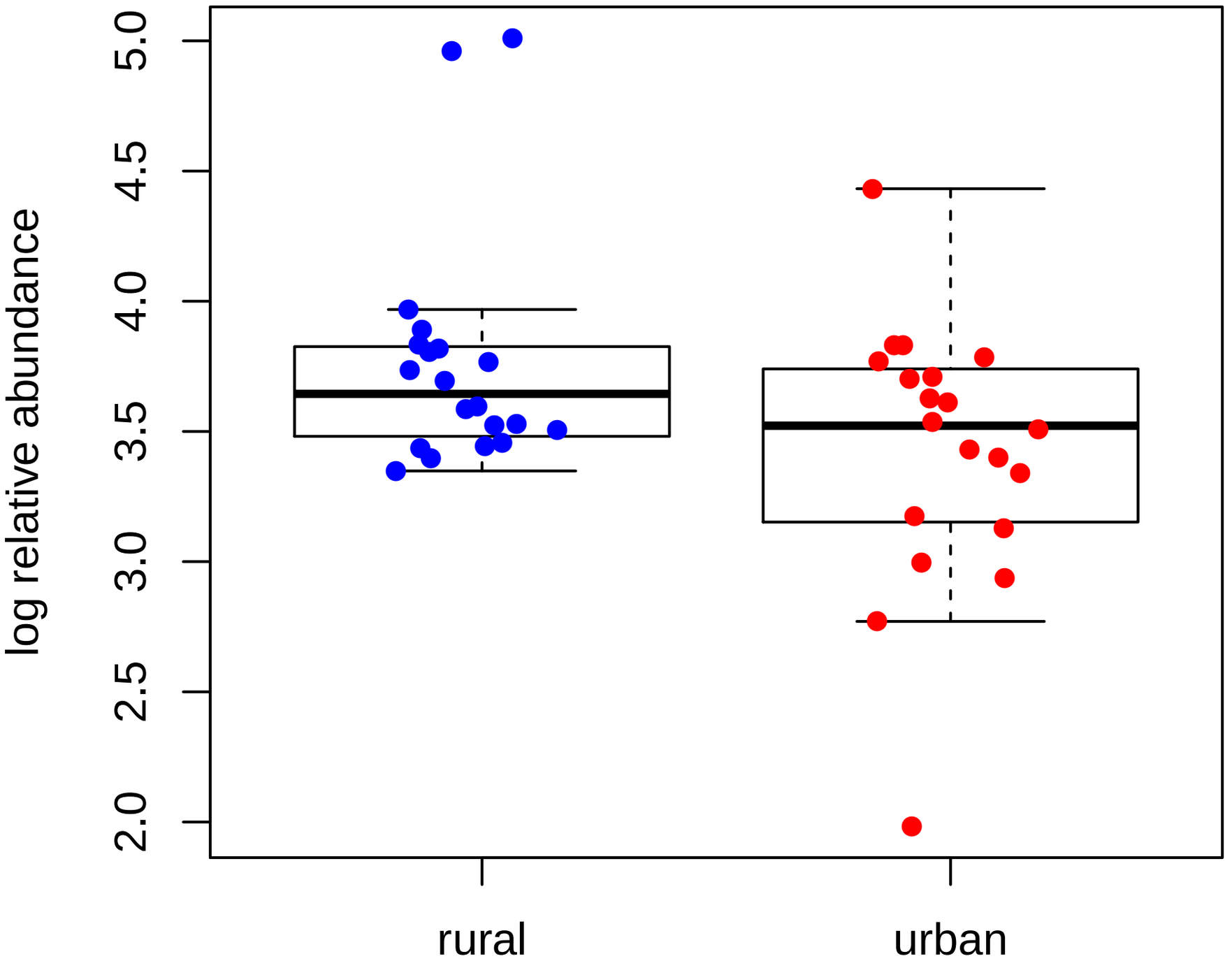

WGS species: Burkholderia_sp._CCGE1002
pAdjRuralUrban= 0.138
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

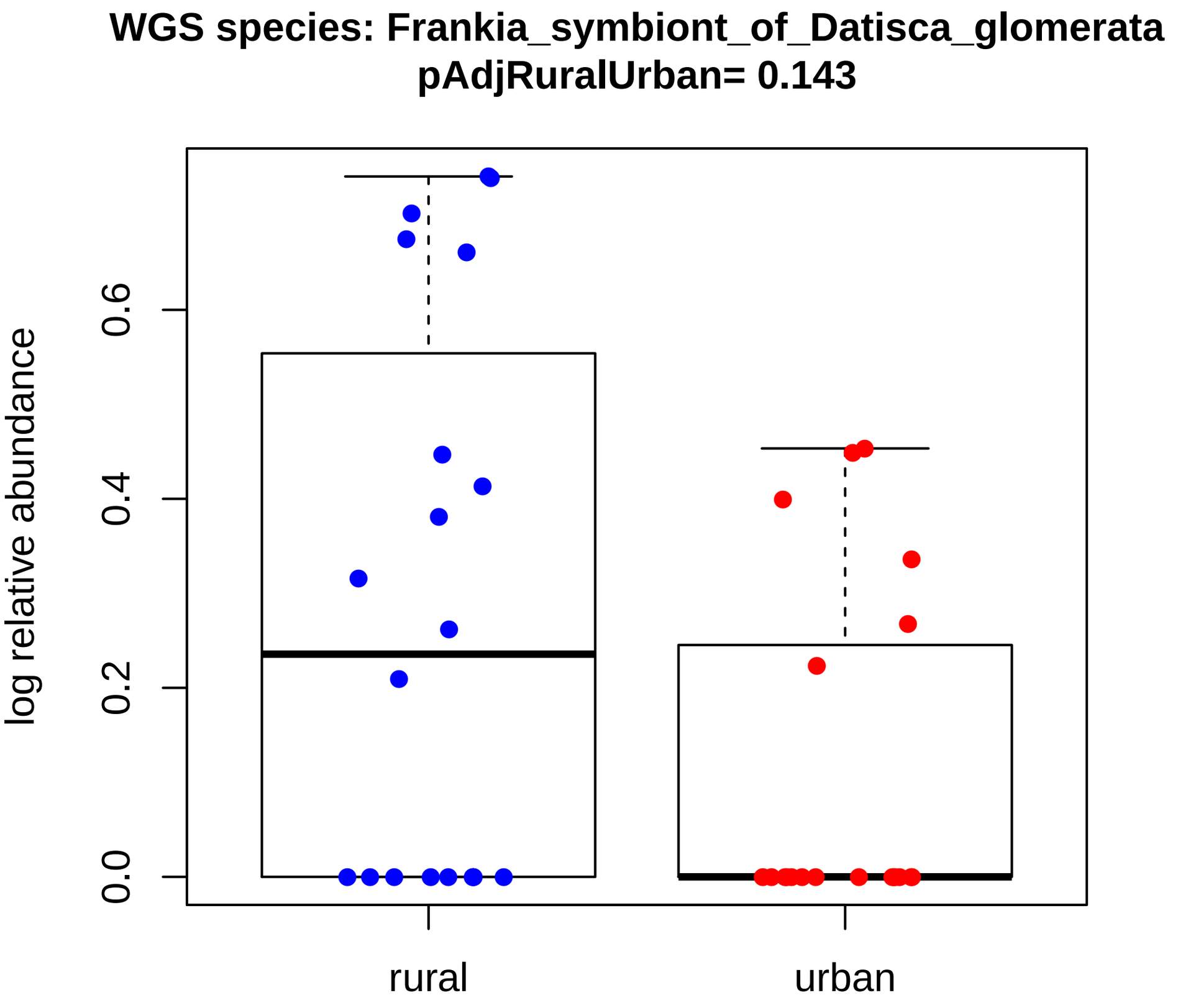

WGS species: Candidatus_Solibacter_usitatus
pAdjRuralUrban= 0.14
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

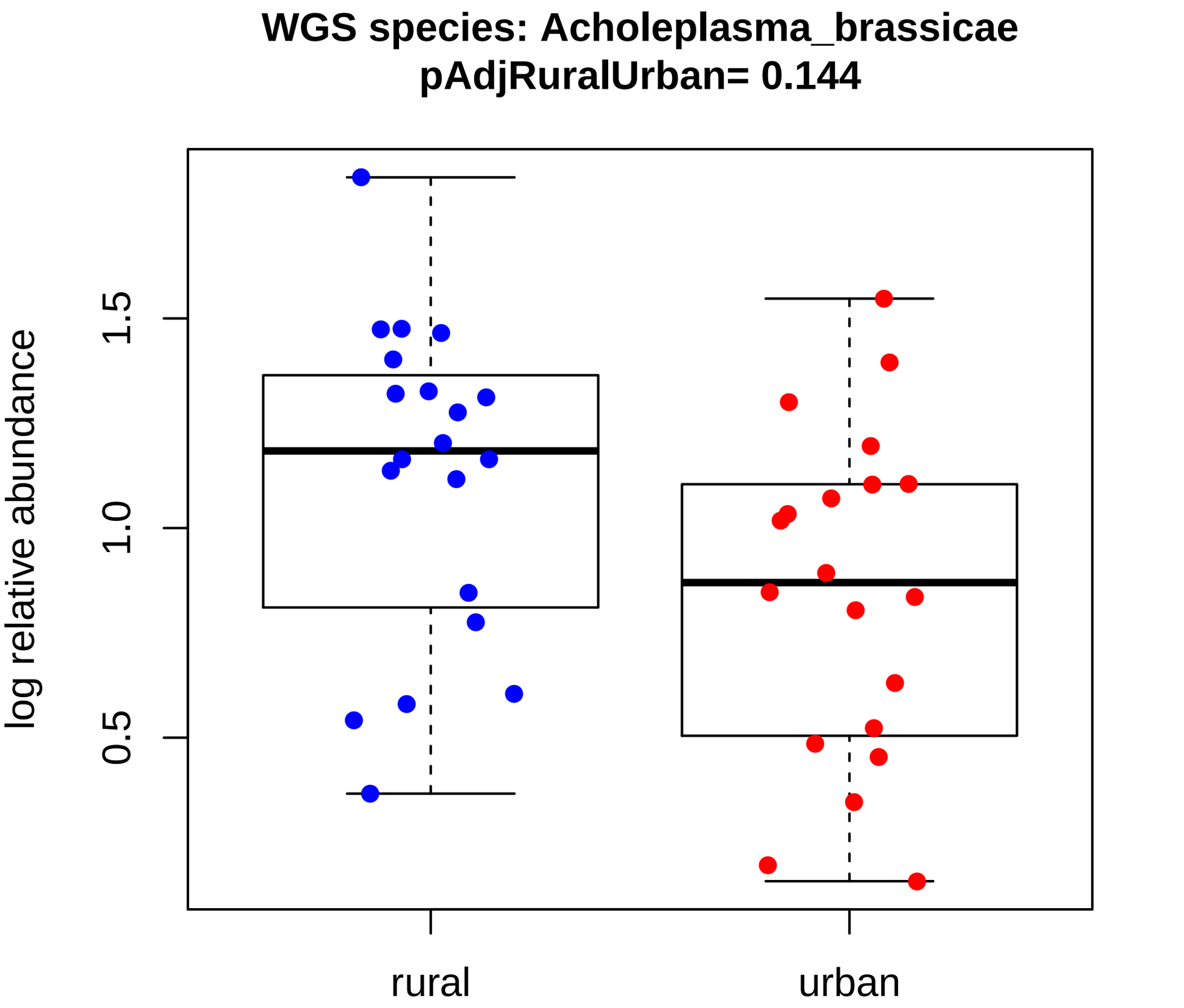

WGS species: Caldanaerobacter_subterraneus
pAdjRuralUrban= 0.14
log relative abundance
0.5
1.0
1.5
rural
urban

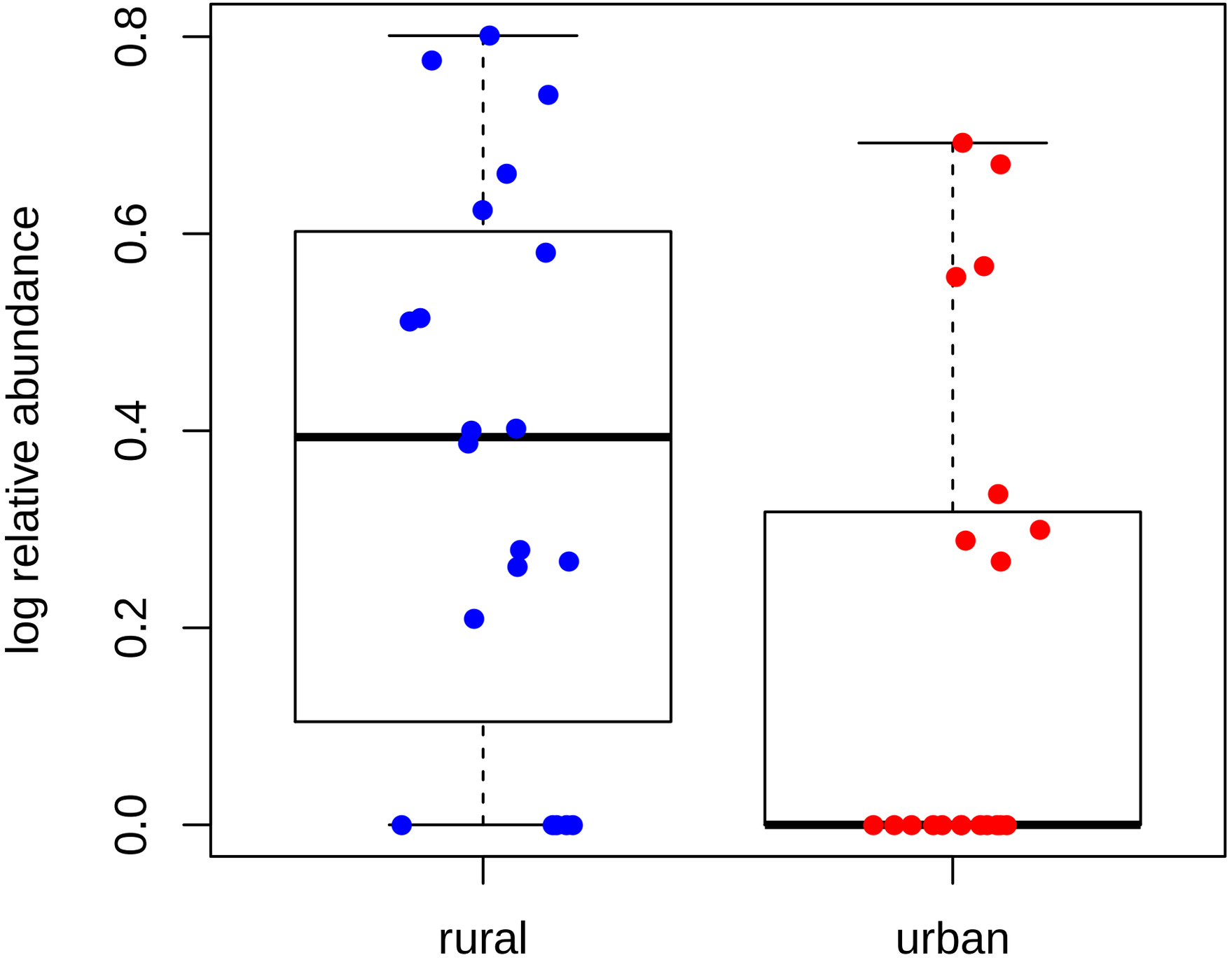

WGS species: Streptococcus_iniae
pAdjRuralUrban= 0.141
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

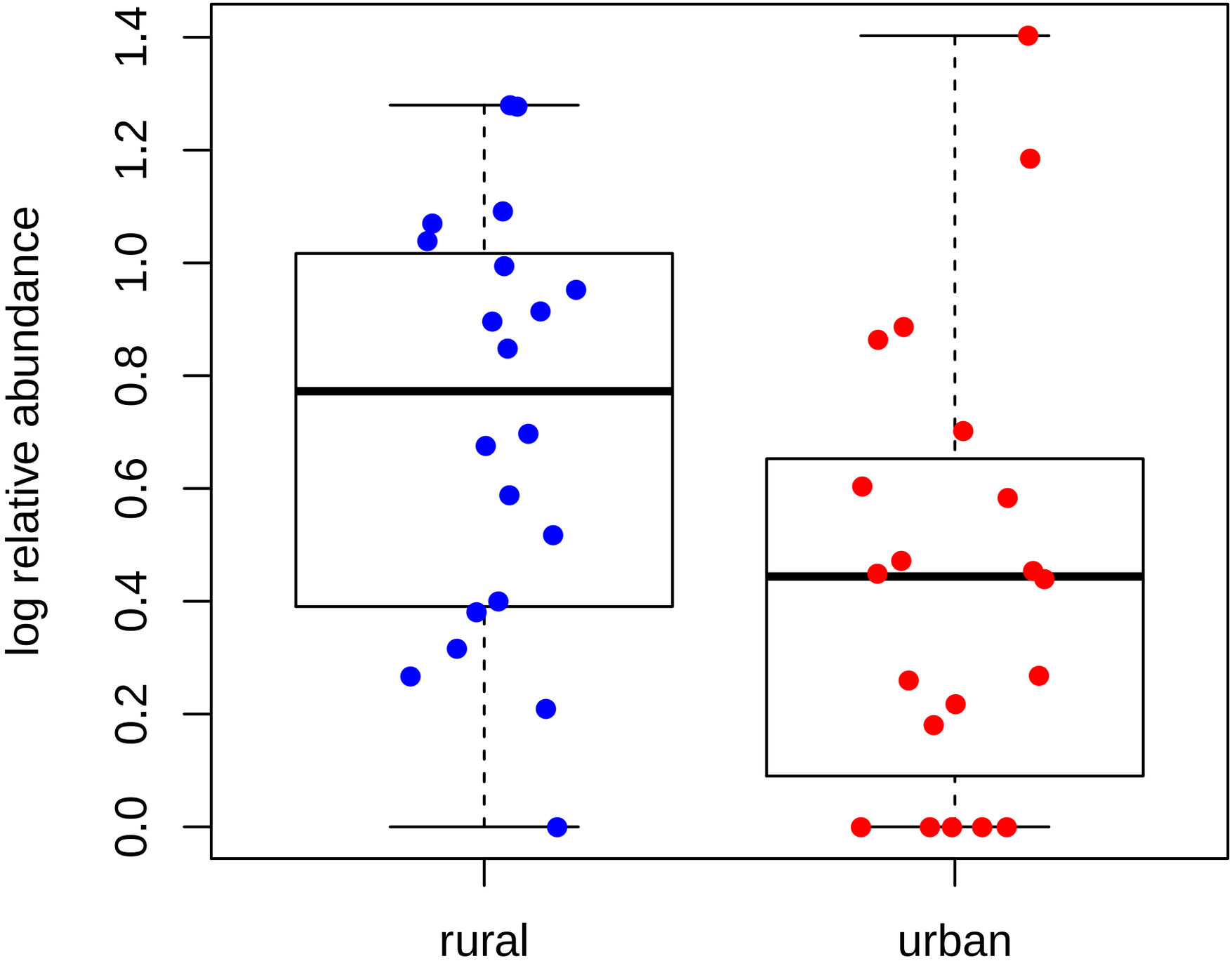

WGS species: Cyanobacterium_stanieri
pAdjRuralUrban= 0.141
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

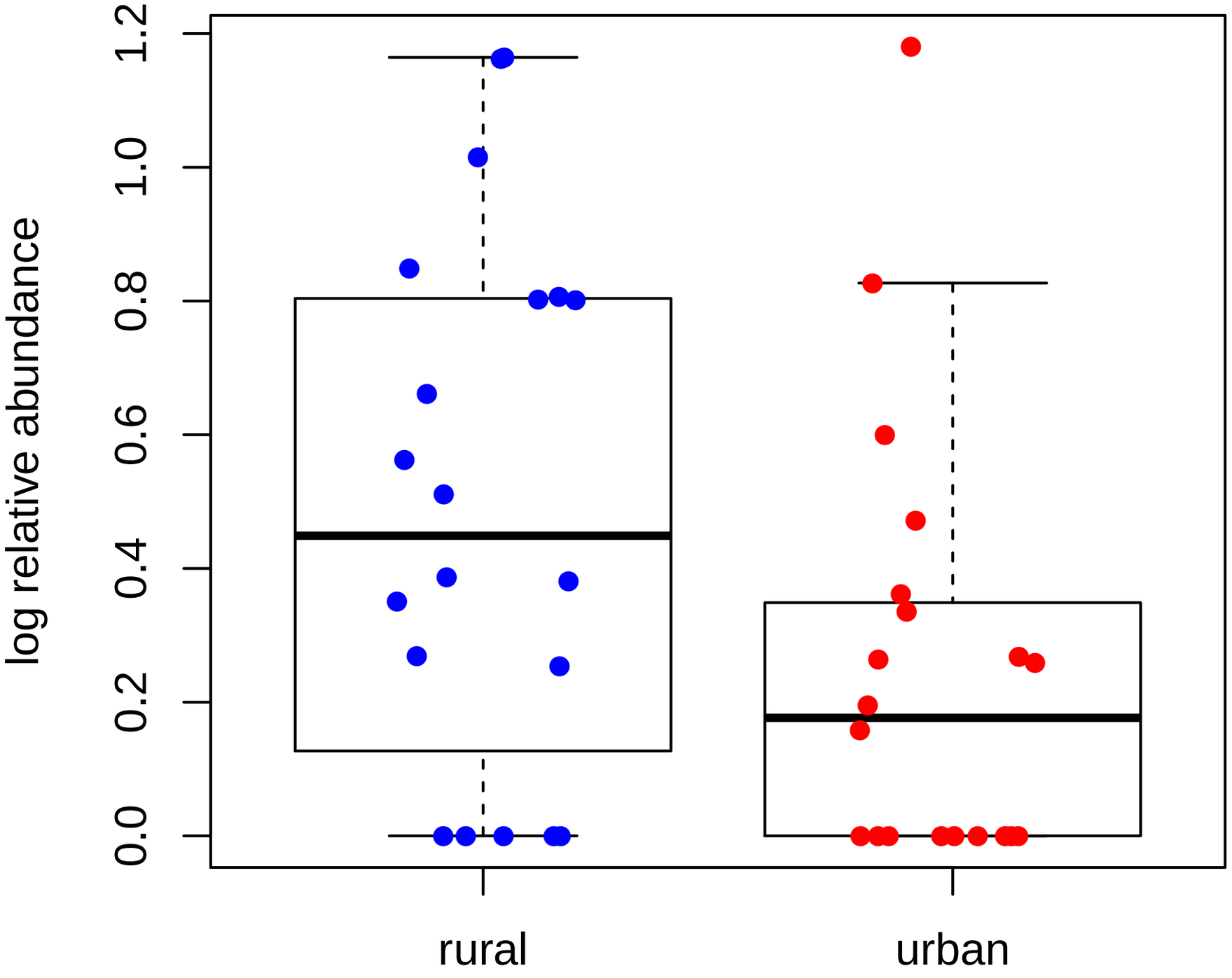

WGS species: Bifidobacterium_bifidum
pAdjRuralUrban= 0.143
log relative abundance
5.0
4.5
4.0
3.5
3.0
2.5
2.0
rural
urban

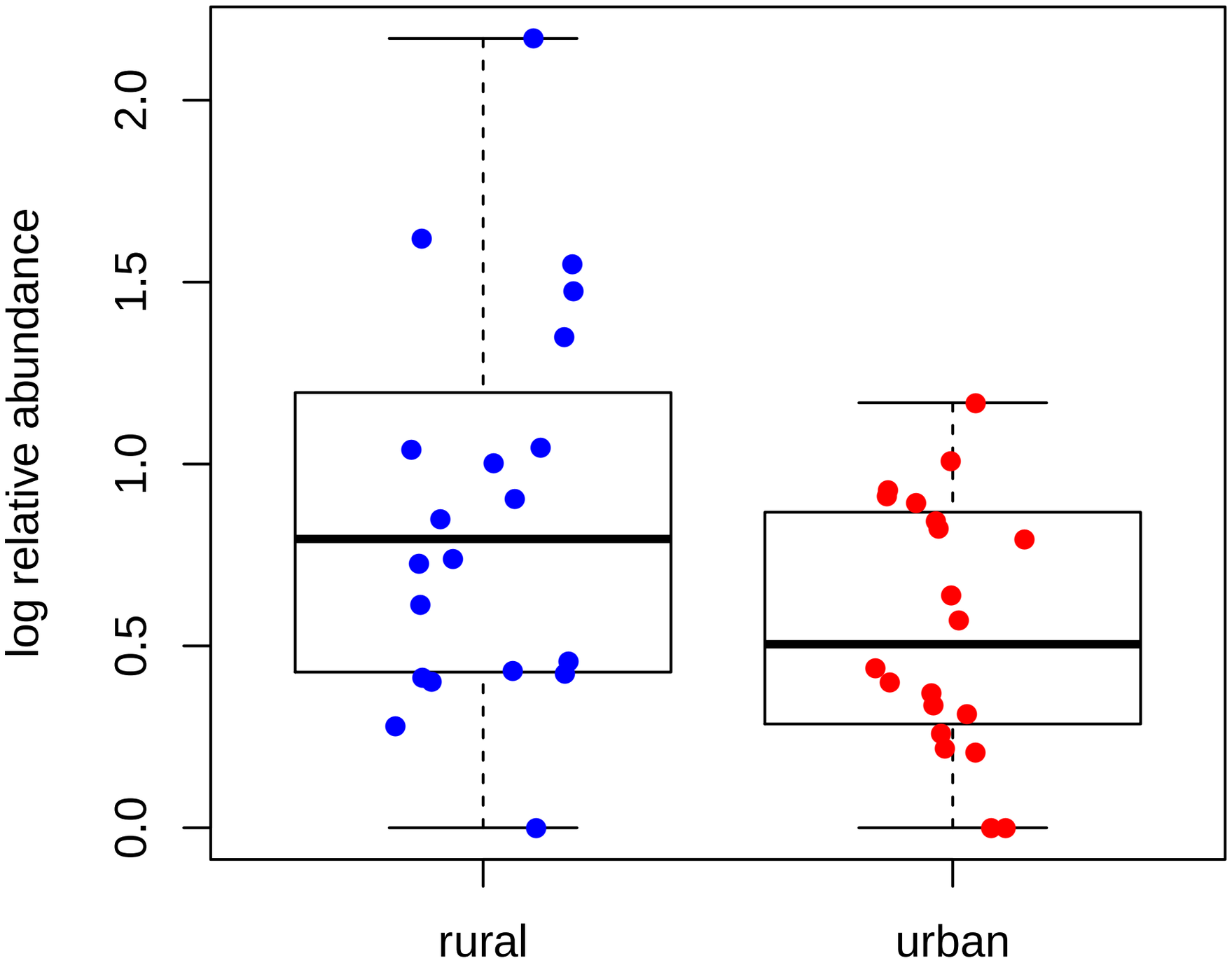

WGS species: Frankia_symbiont_of_Datisca_glomerata
pAdjRuralUrban= 0.143
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

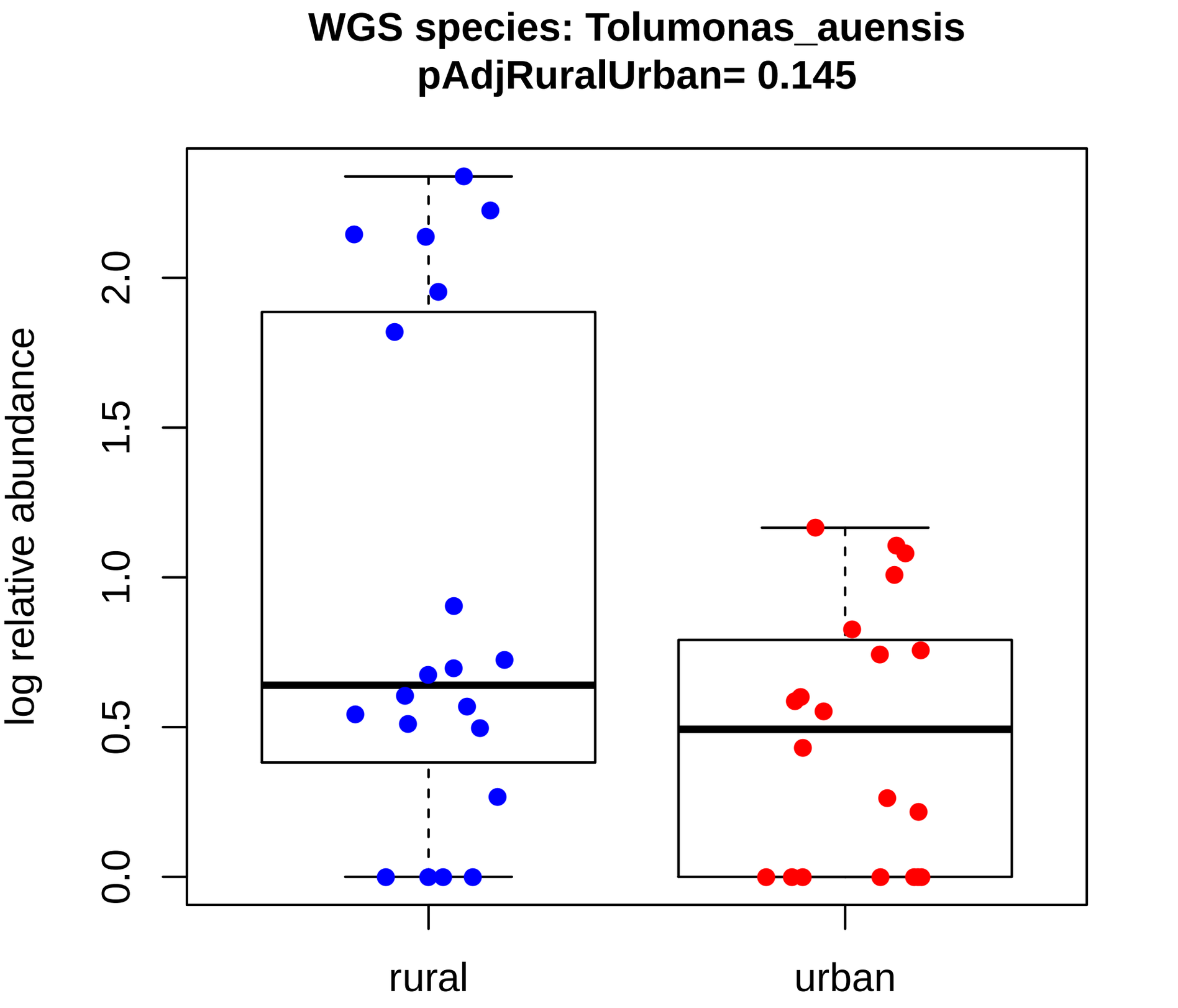

WGS species: Acholeplasma_brassicae
pAdjRuralUrban= 0.144
log relative abundance
0.5
1.0
1.5
rural
urban

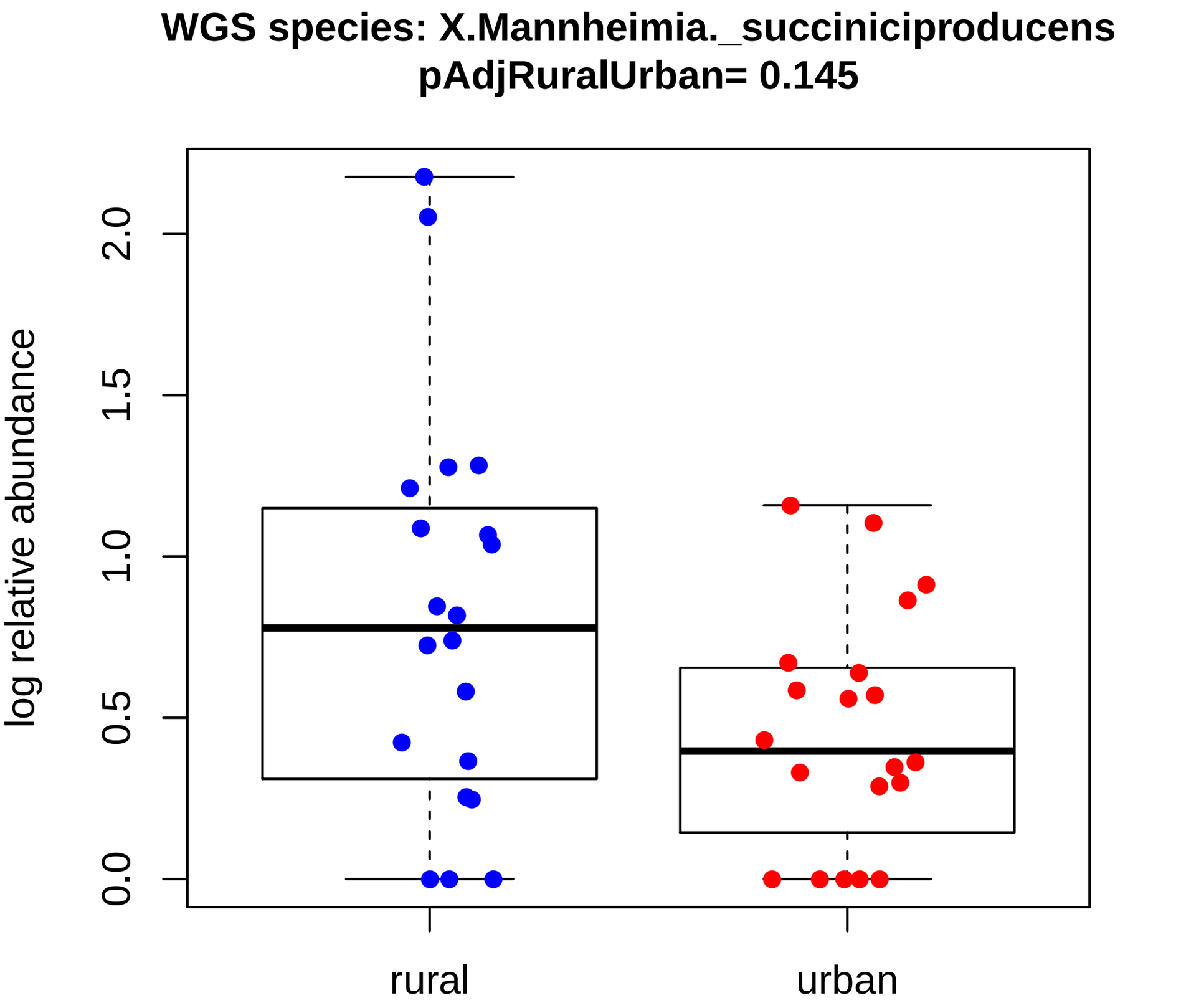

WGS species: Mycobacterium_kansasii
pAdjRuralUrban= 0.144
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

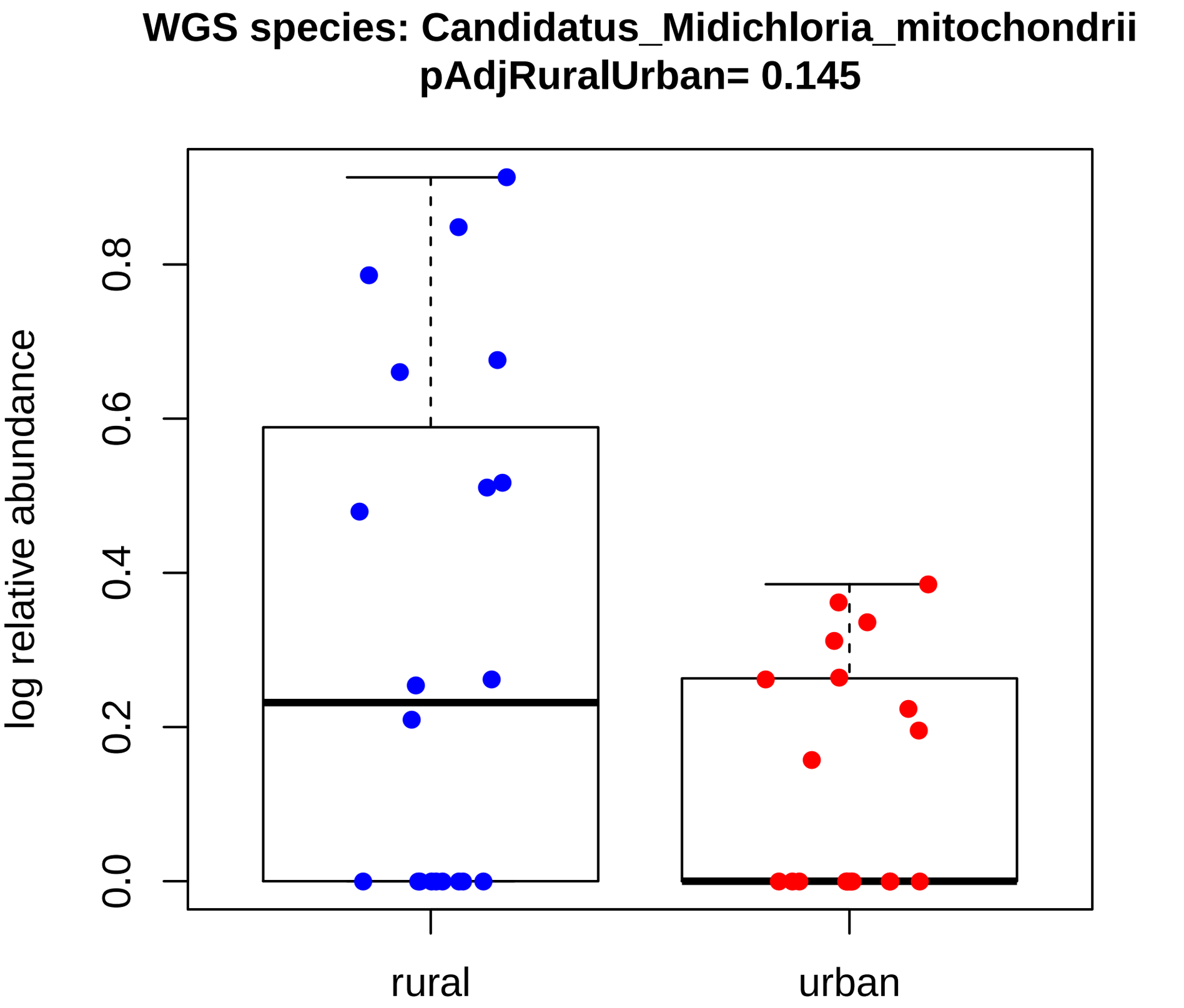

WGS species: Kytococcus_sedentarius
pAdjRuralUrban= 0.144
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

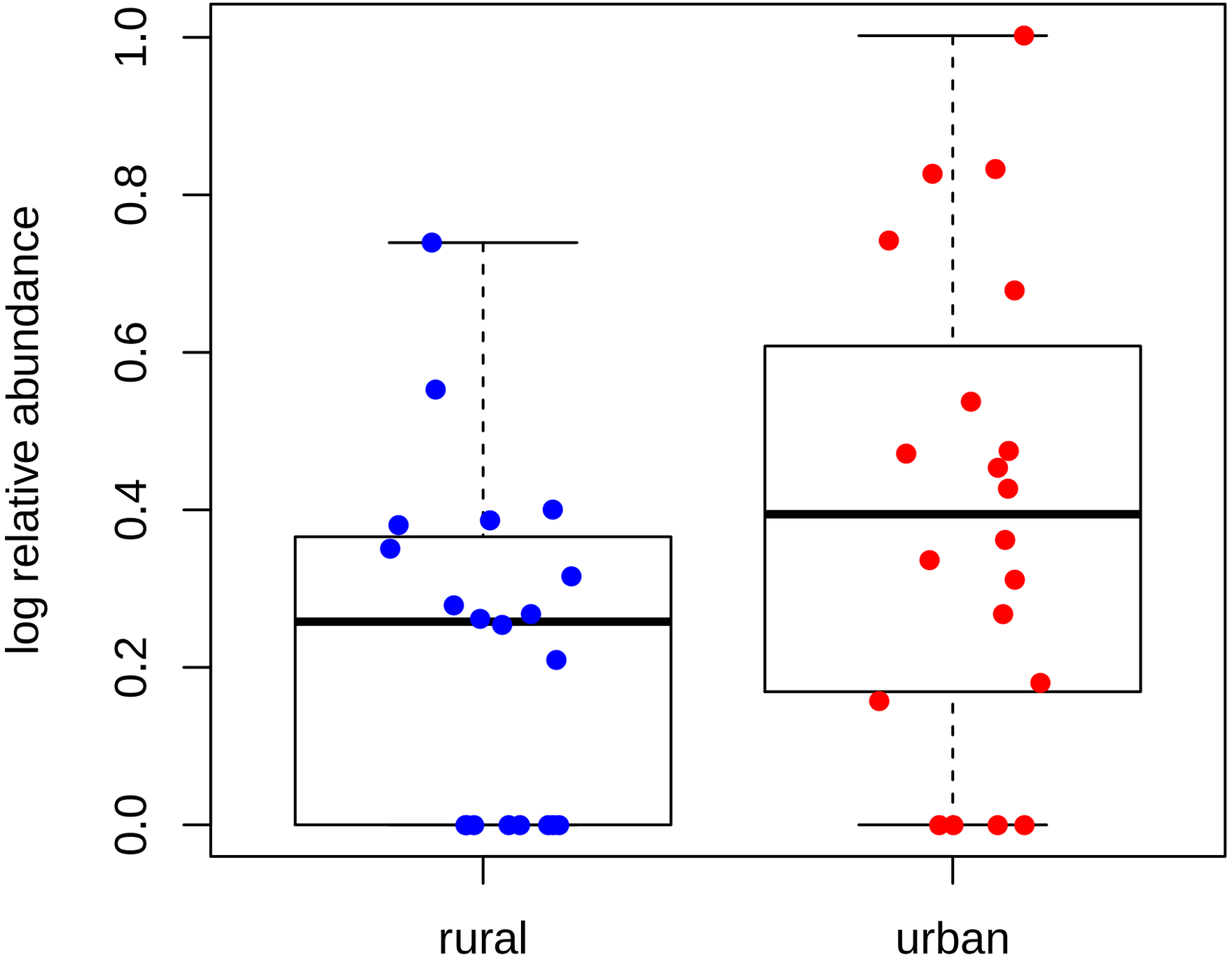

WGS species: Bacillus_cellulosilyticus
pAdjRuralUrban= 0.144
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

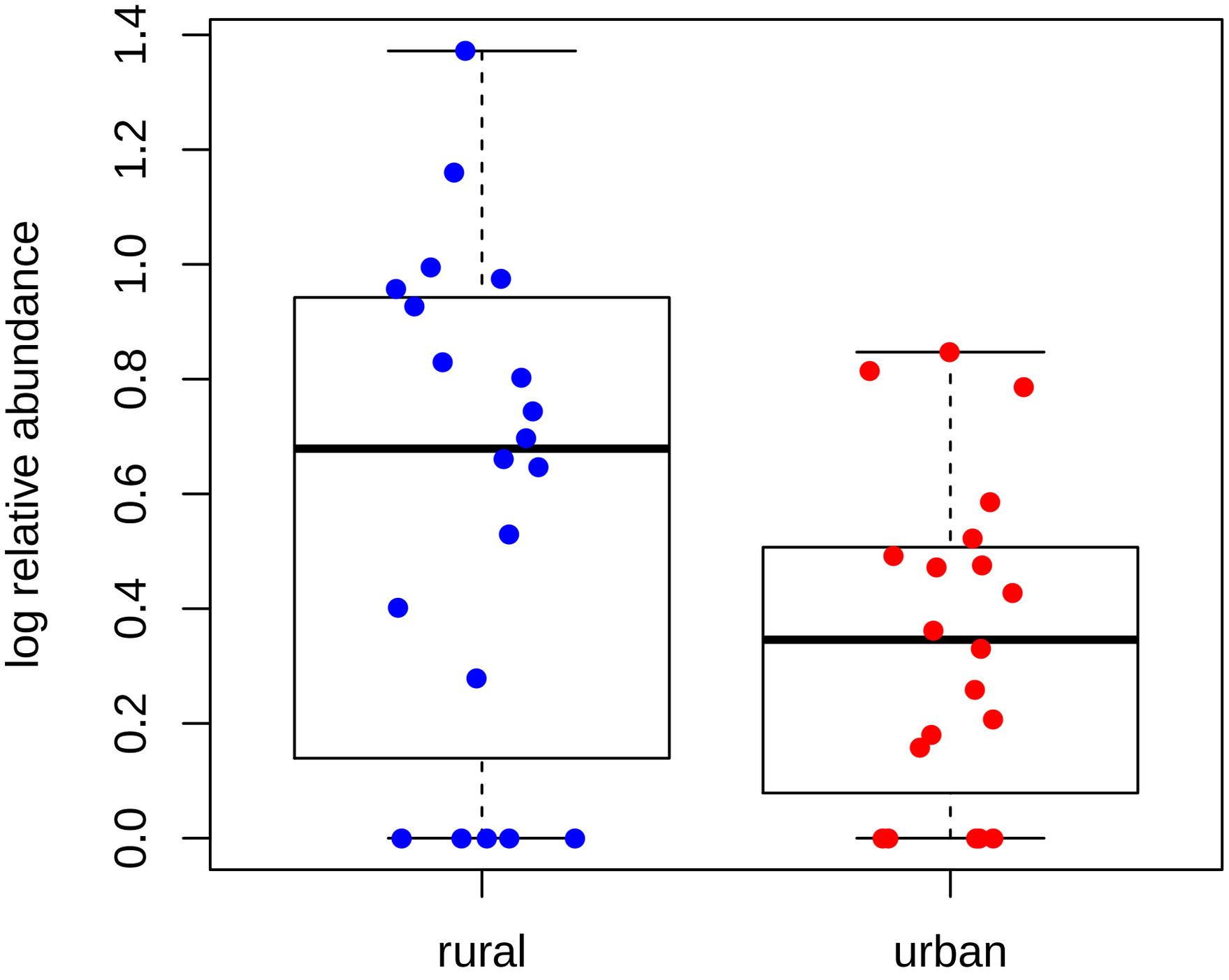

WGS species: Desulfotomaculum_ruminis
pAdjRuralUrban= 0.144
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

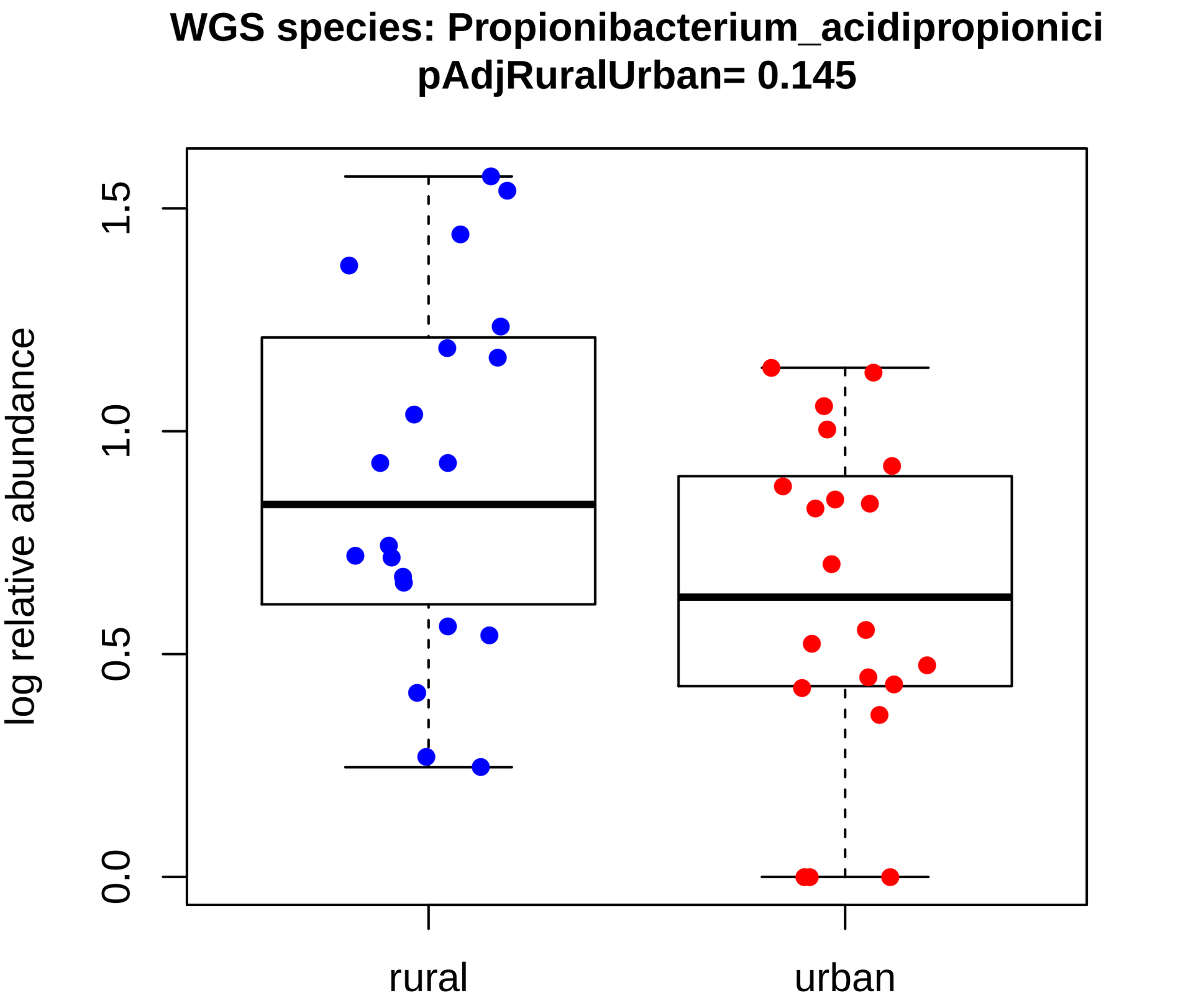

WGS species: Tolumonas_auensis
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

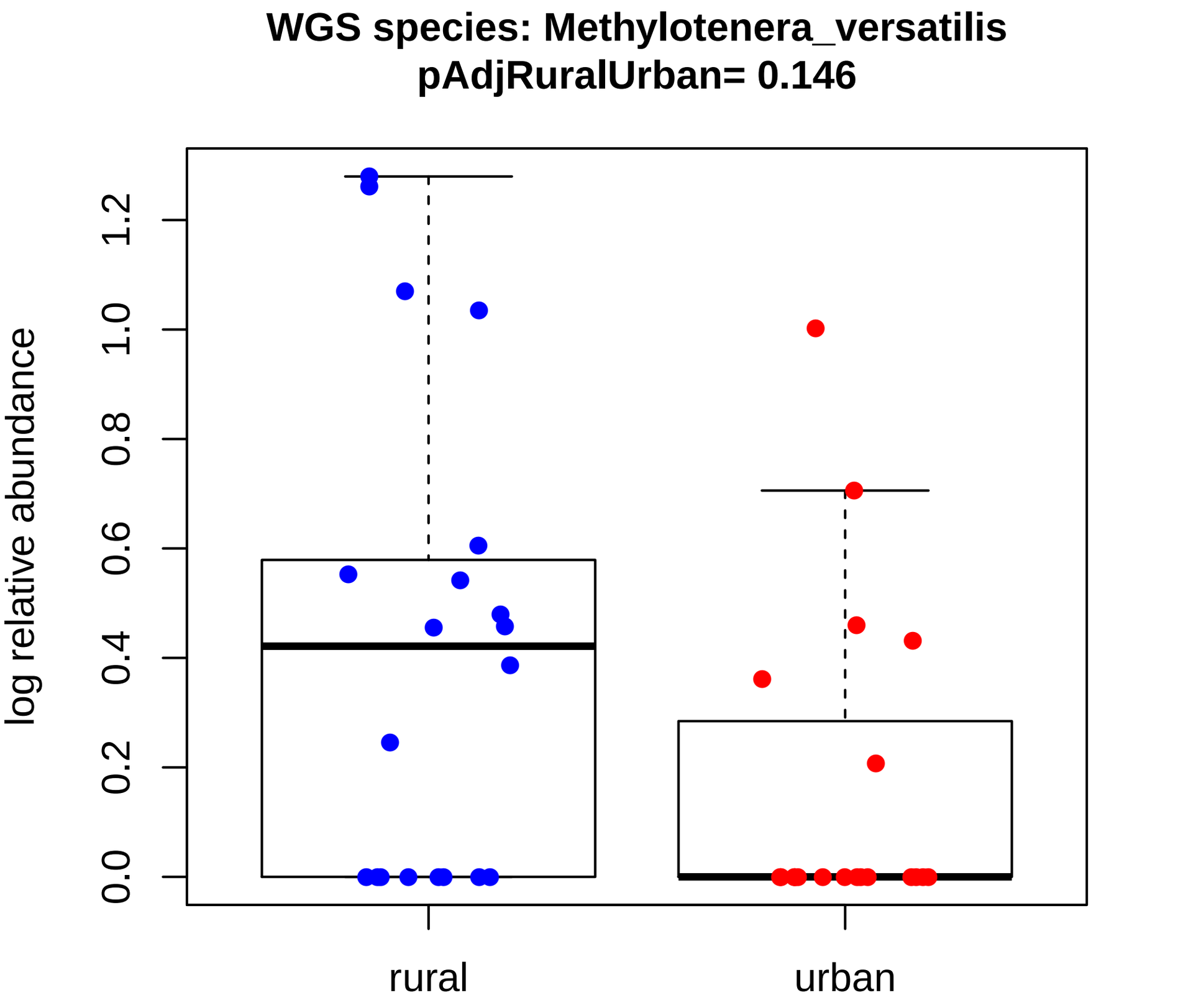

WGS species: X.Mannheimia._succiniciproducens
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

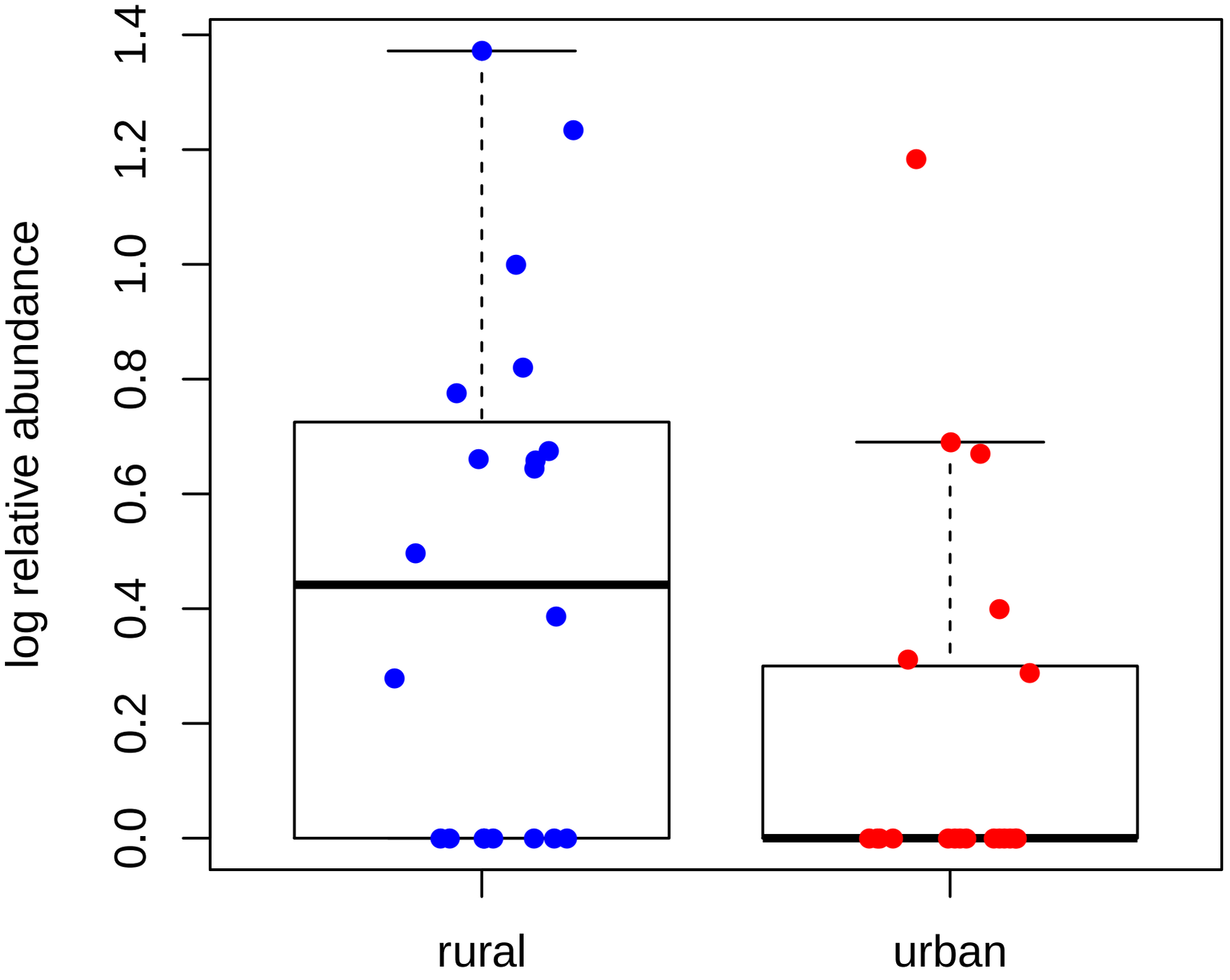

WGS species: Candidatus_Midichloria_mitochondrii
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

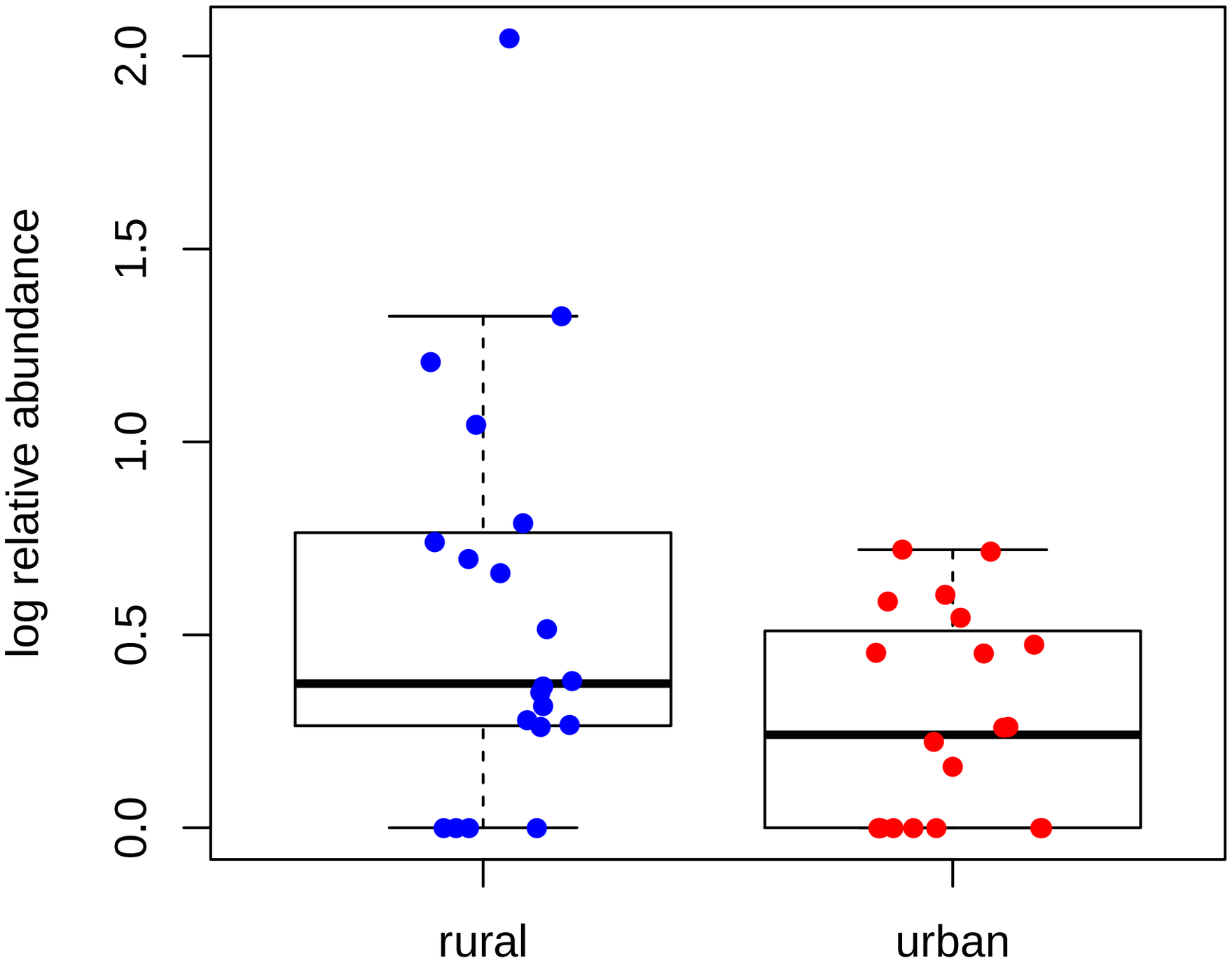

WGS species: Corynebacterium_efficiens
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

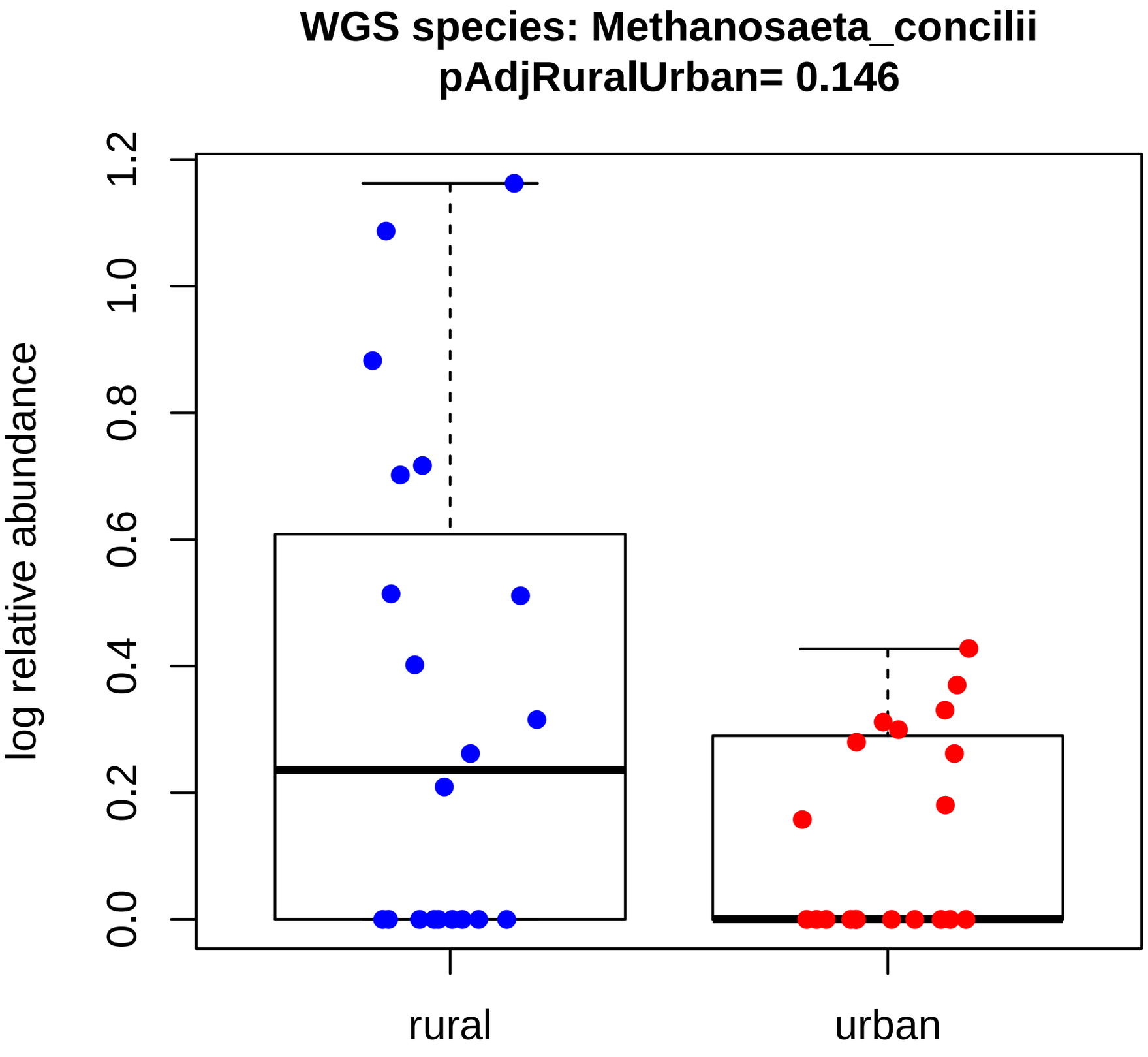

WGS species: Verrucosispora_maris
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

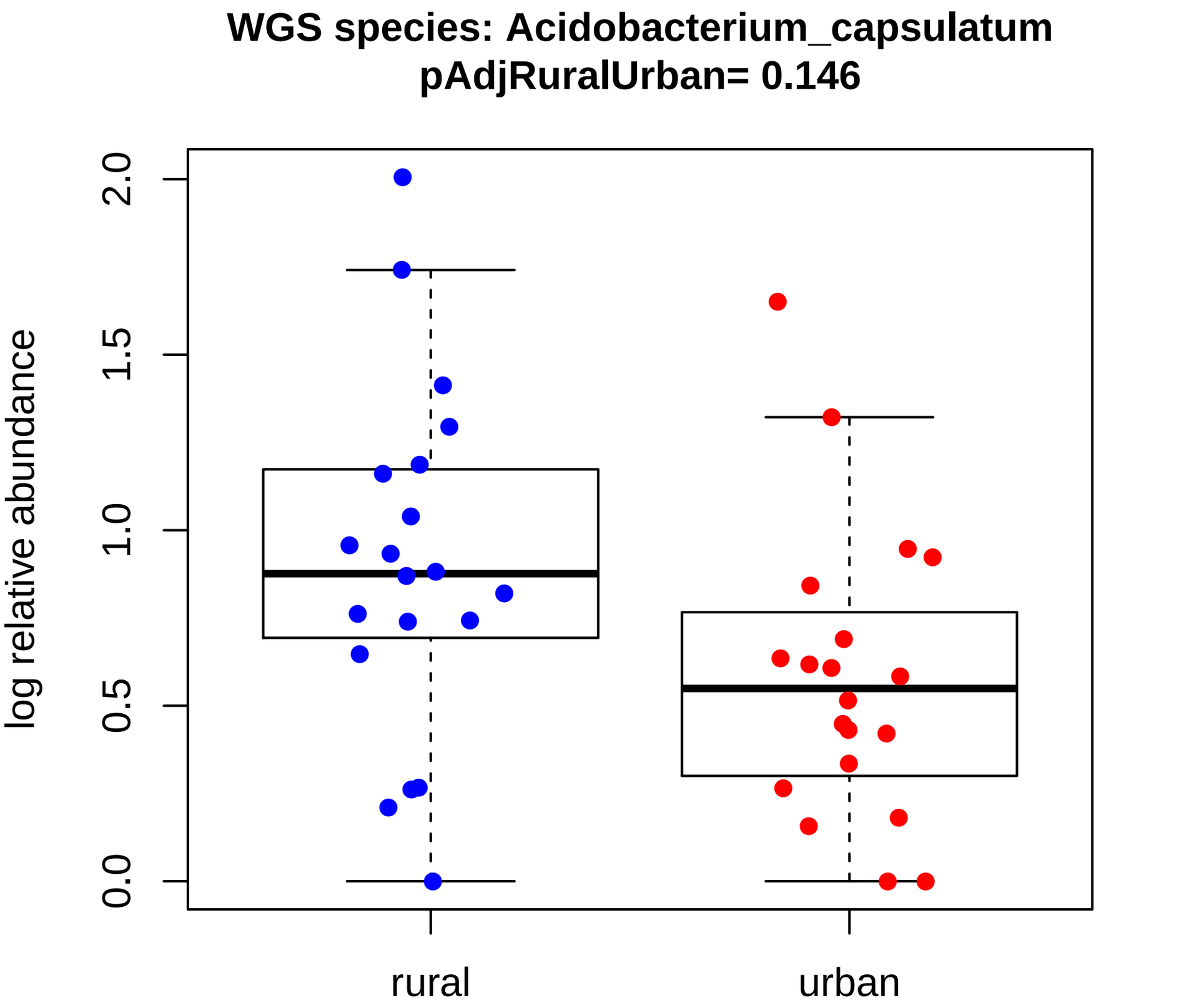

WGS species: Propionibacterium_acidipropionici
pAdjRuralUrban= 0.145
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

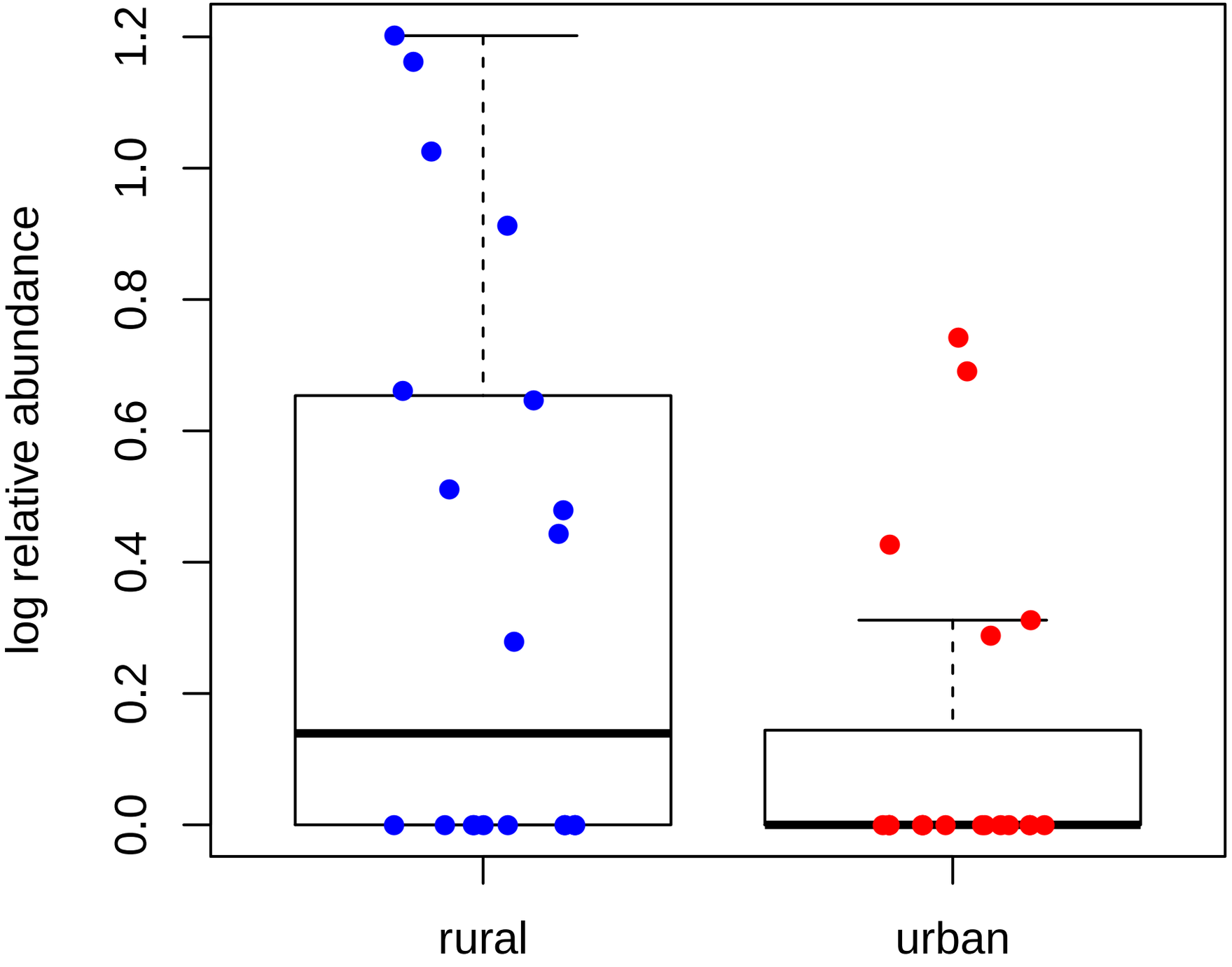

WGS species: Methylotenera_versatilis
pAdjRuralUrban= 0.146
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

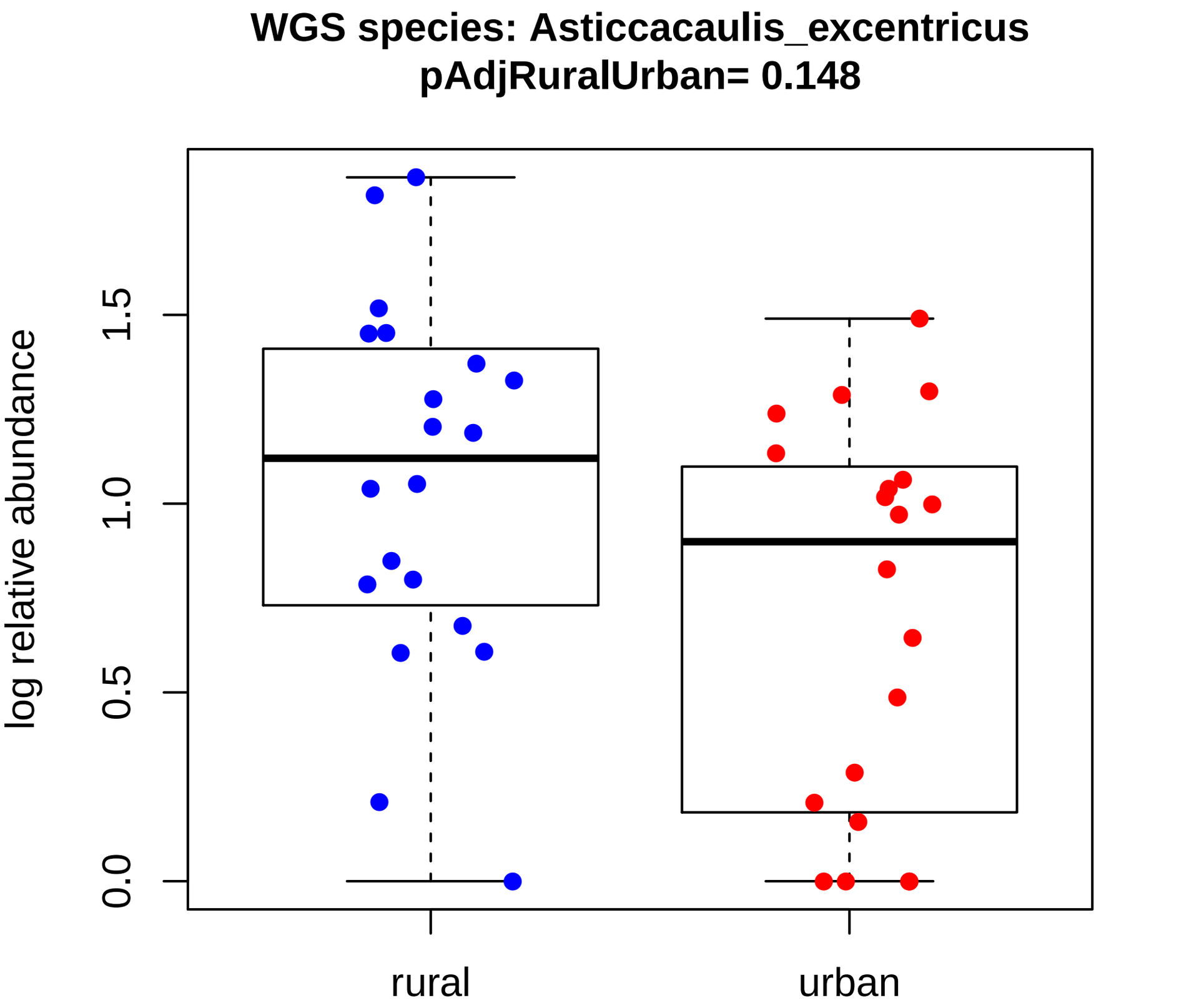

WGS species: Verminephrobacter_eiseniae
pAdjRuralUrban= 0.146
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

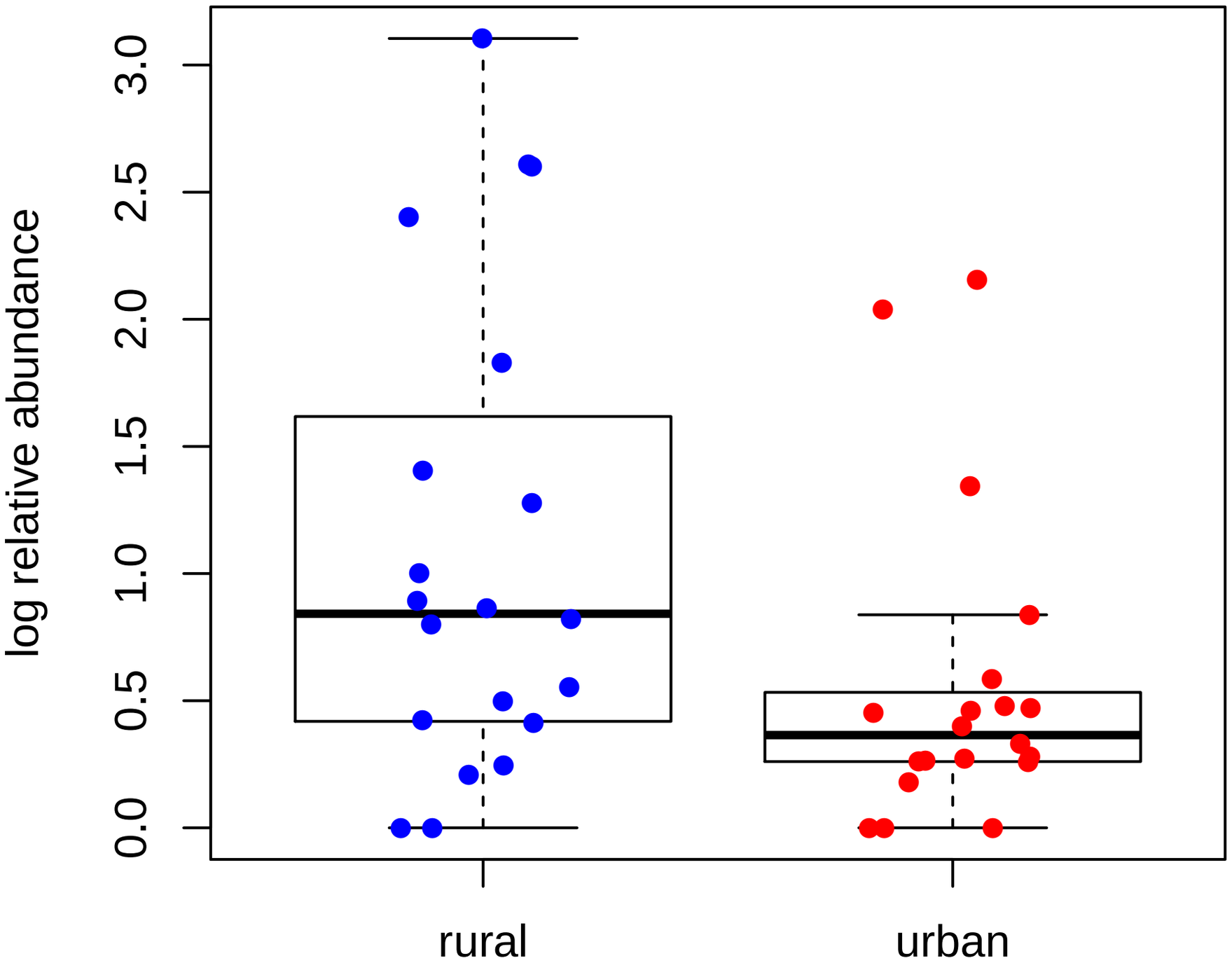

WGS species: Pediococcus_claussenii
pAdjRuralUrban= 0.146
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

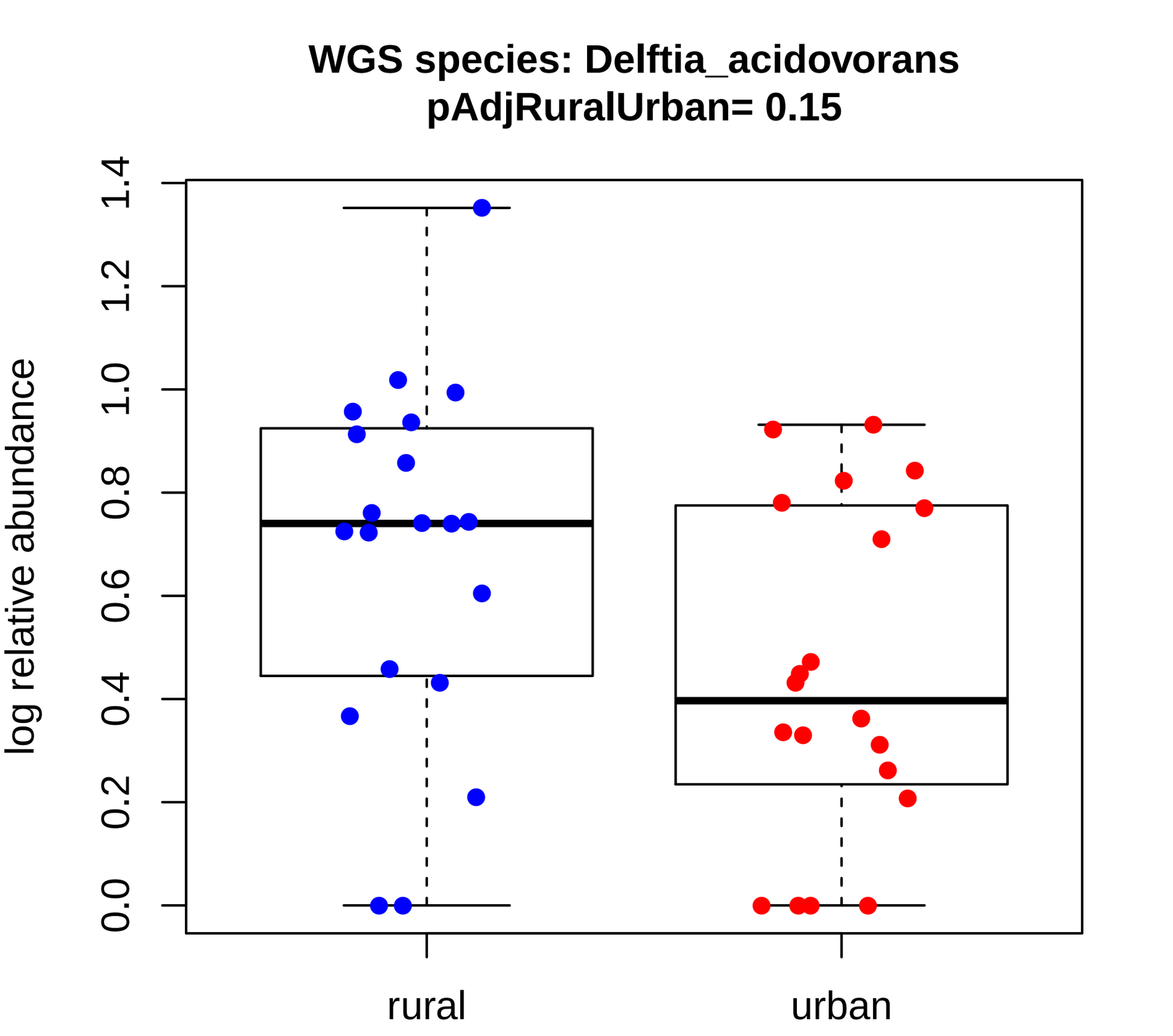

WGS species: Methanosaeta_concilii
pAdjRuralUrban= 0.146
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

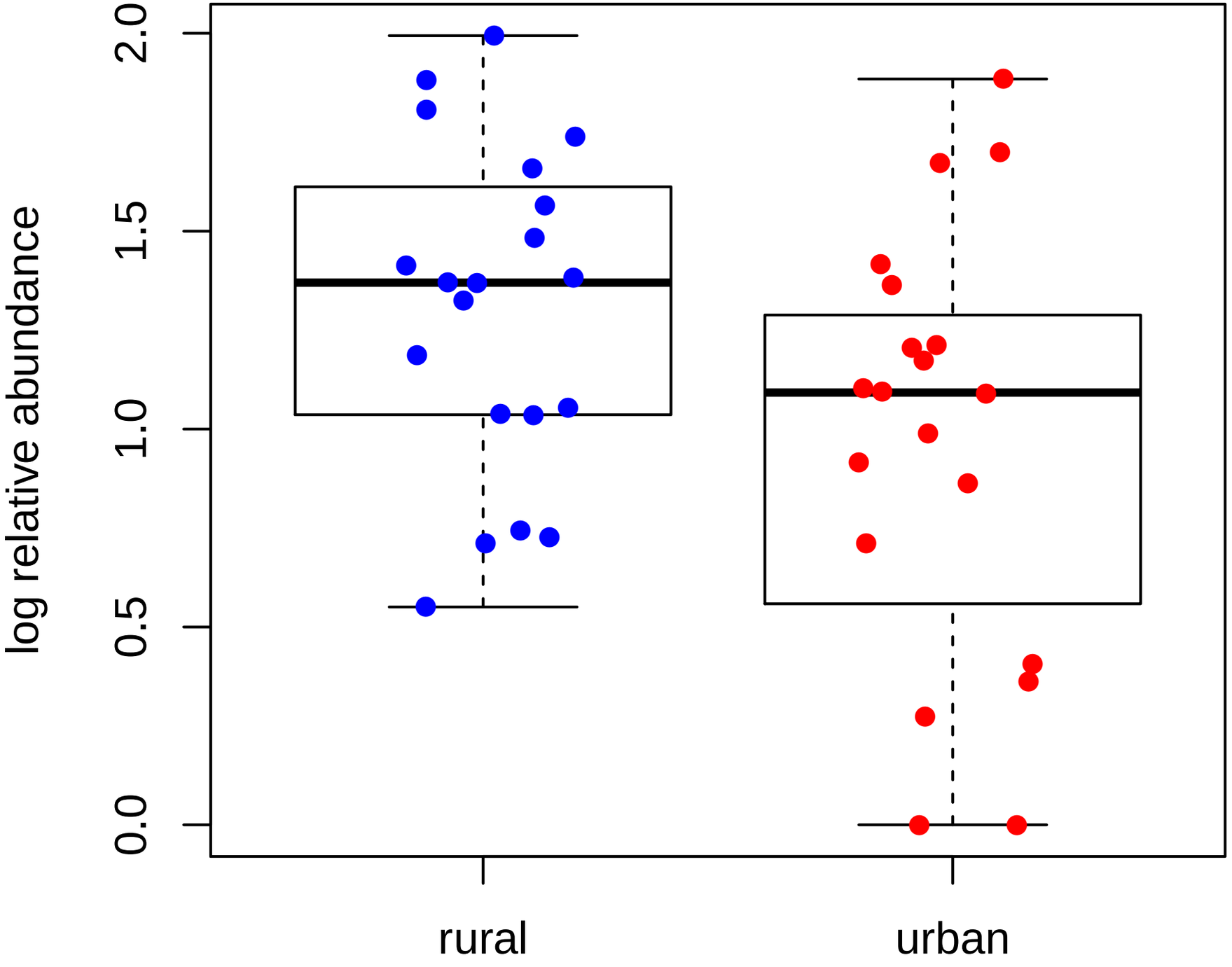

WGS species: Acidobacterium_capsulatum
pAdjRuralUrban= 0.146
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

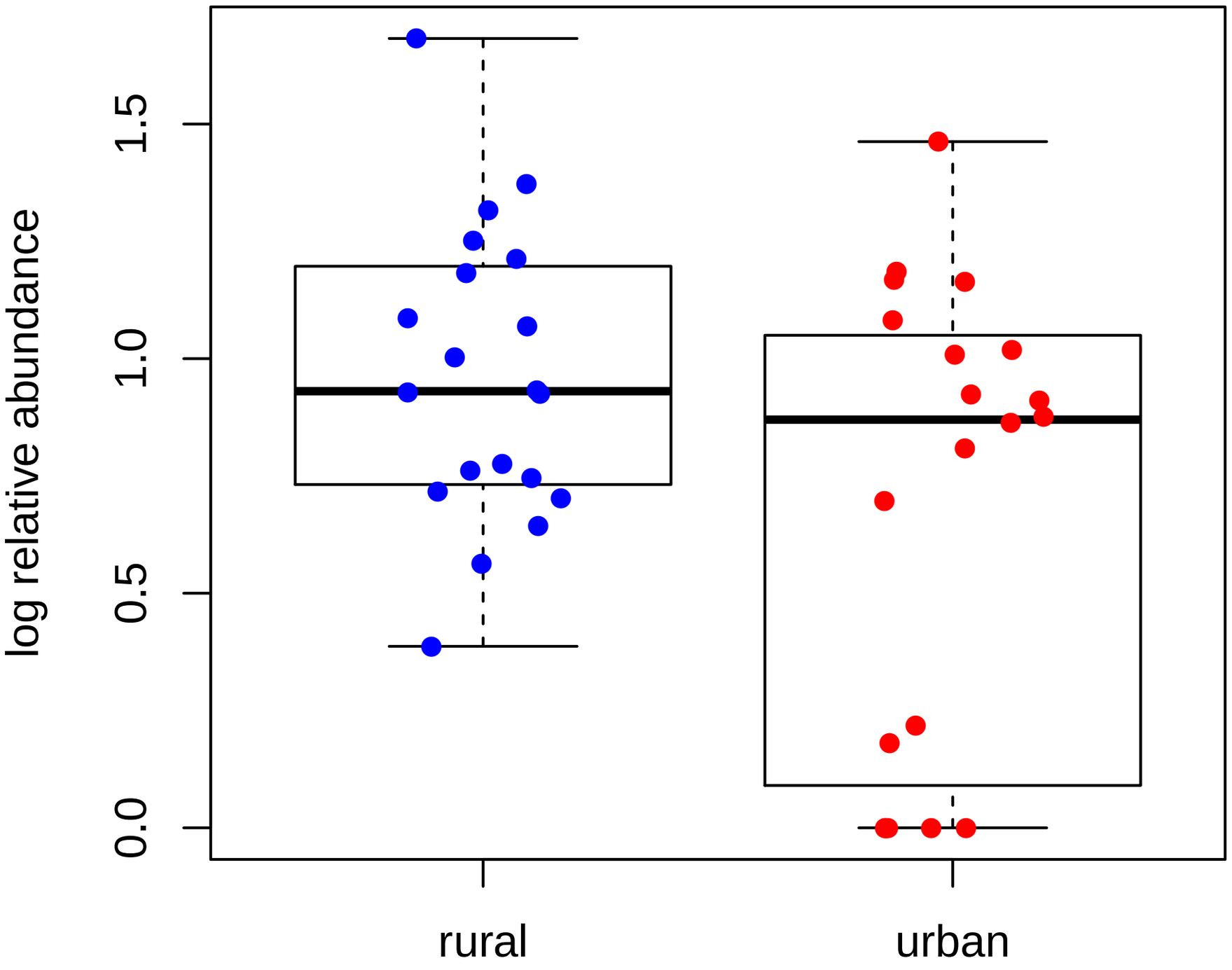

WGS species: Komagataeibacter_medellinensis
pAdjRuralUrban= 0.147
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

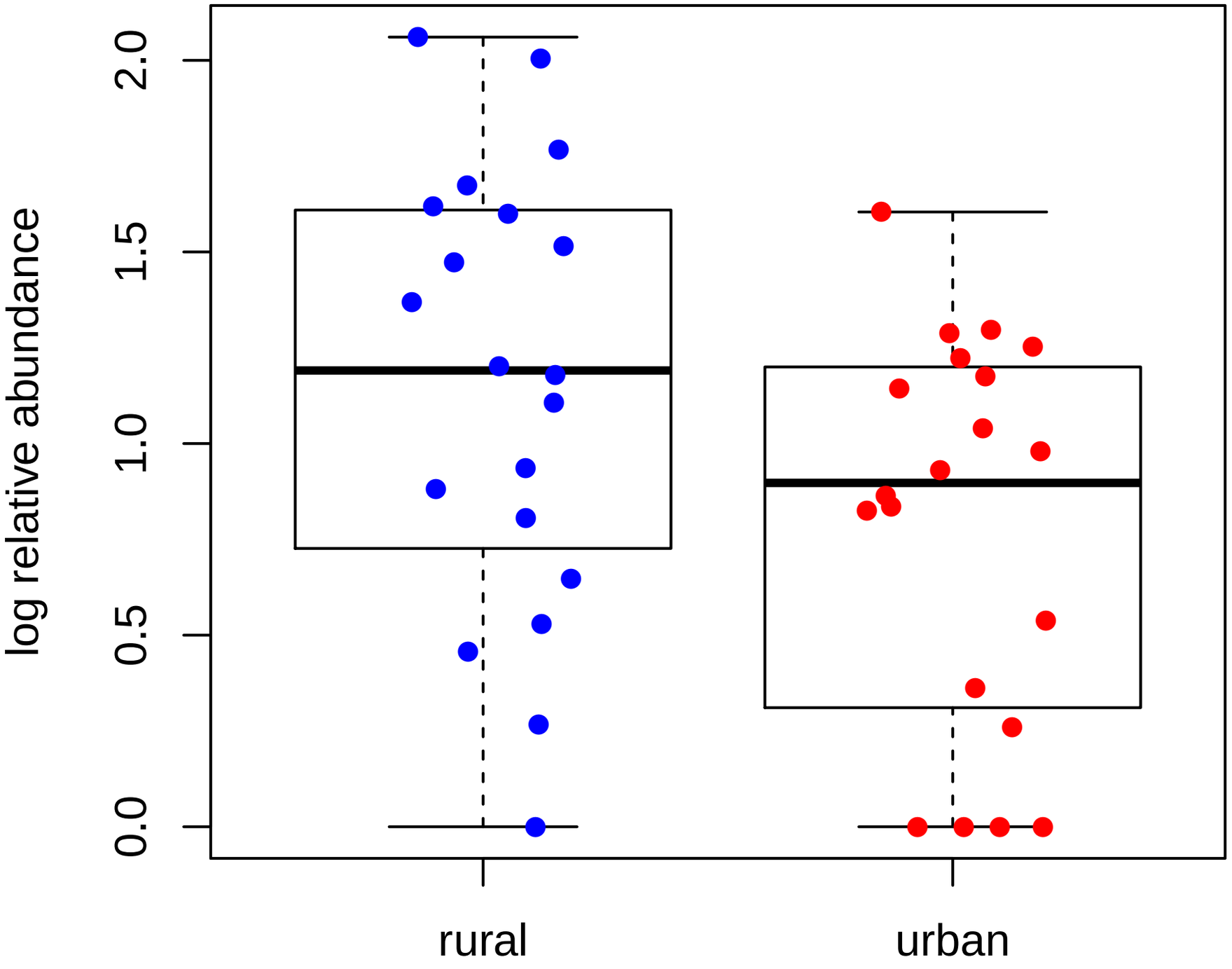

WGS species: Asticcacaulis_excentricus
pAdjRuralUrban= 0.148
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

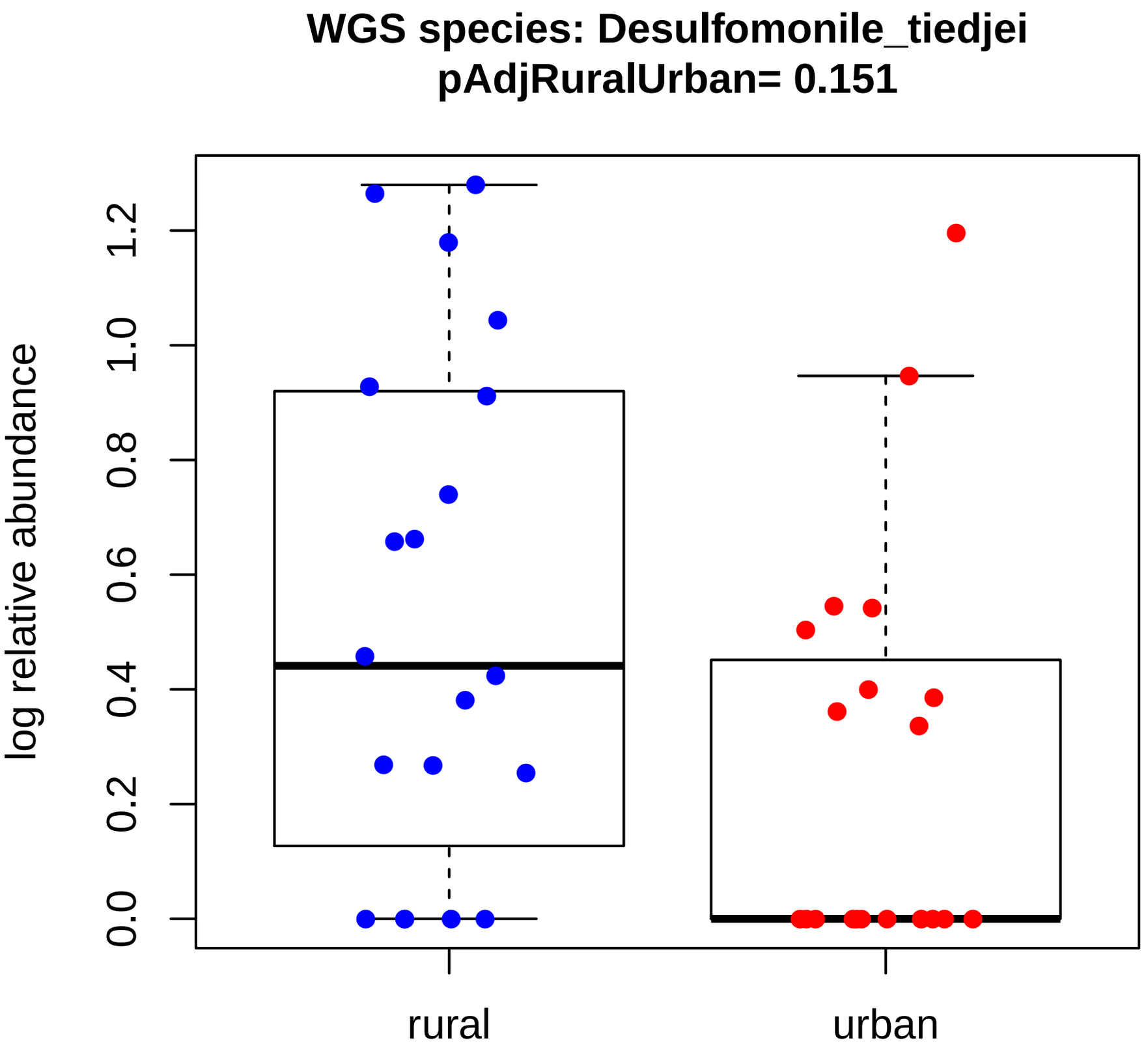

WGS species: Lactococcus_garvieae
pAdjRuralUrban= 0.148
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

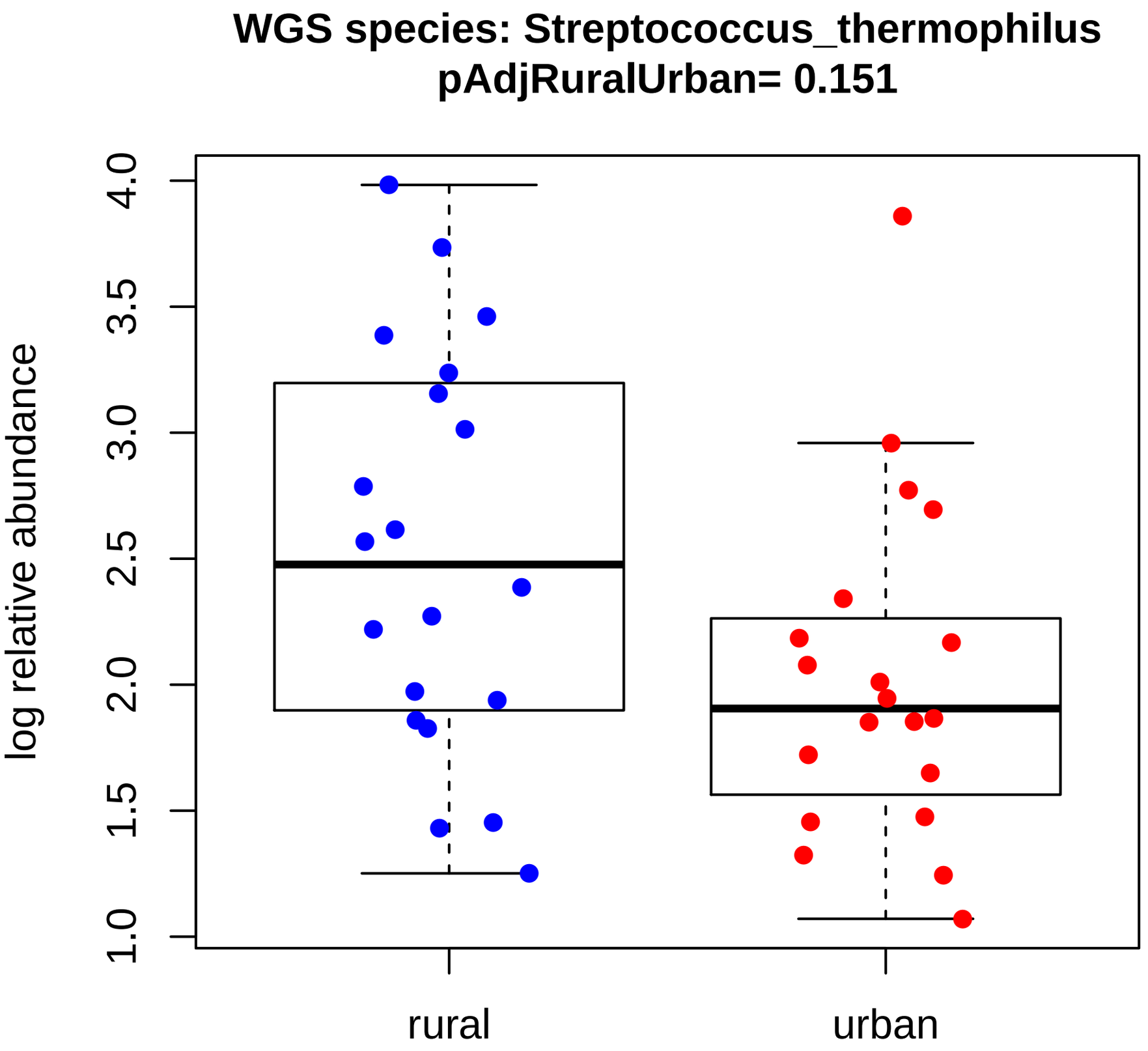

WGS species: Delftia_acidovorans
pAdjRuralUrban= 0.15
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

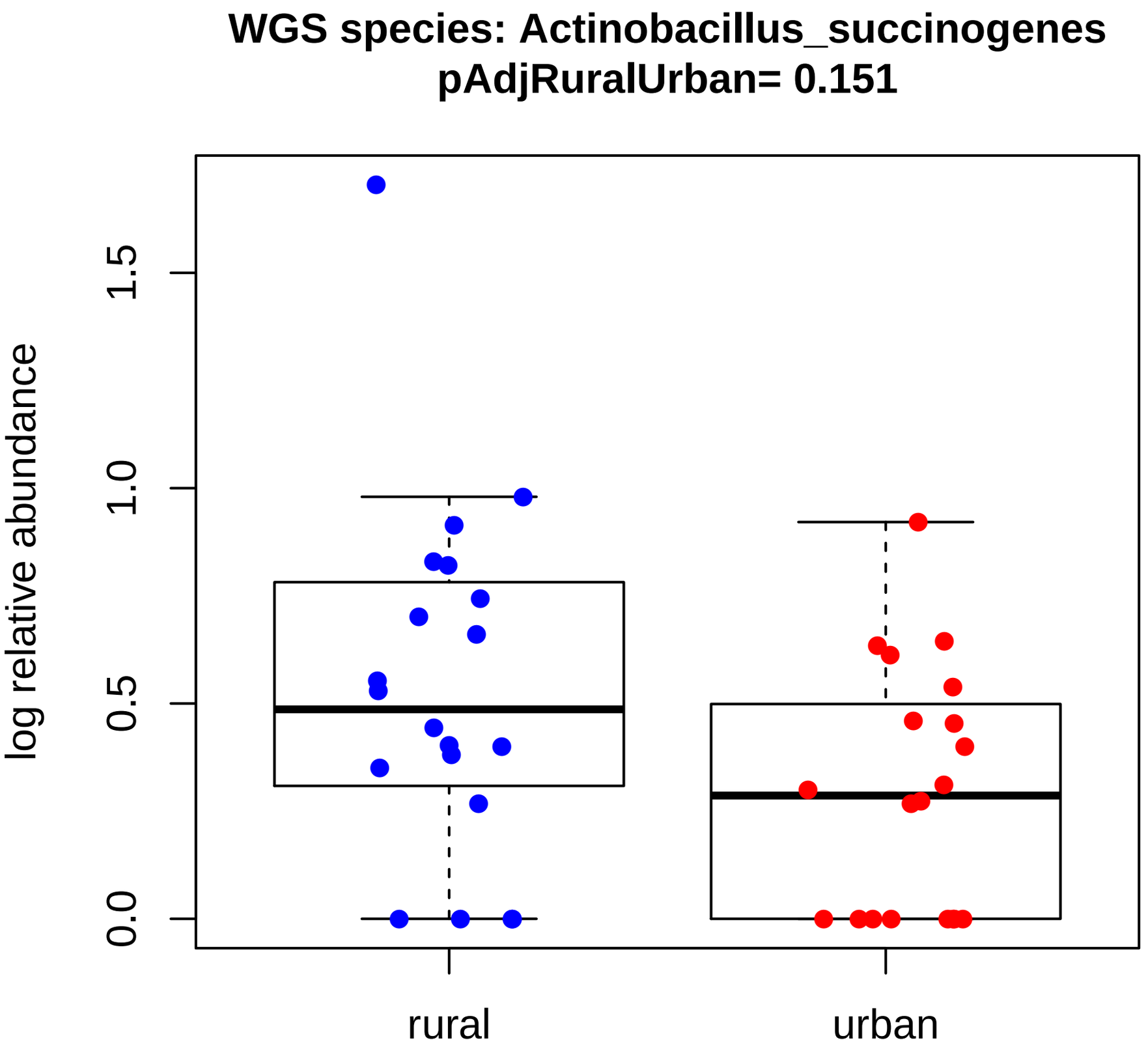

WGS species: Fibrobacter_succinogenes
pAdjRuralUrban= 0.151
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

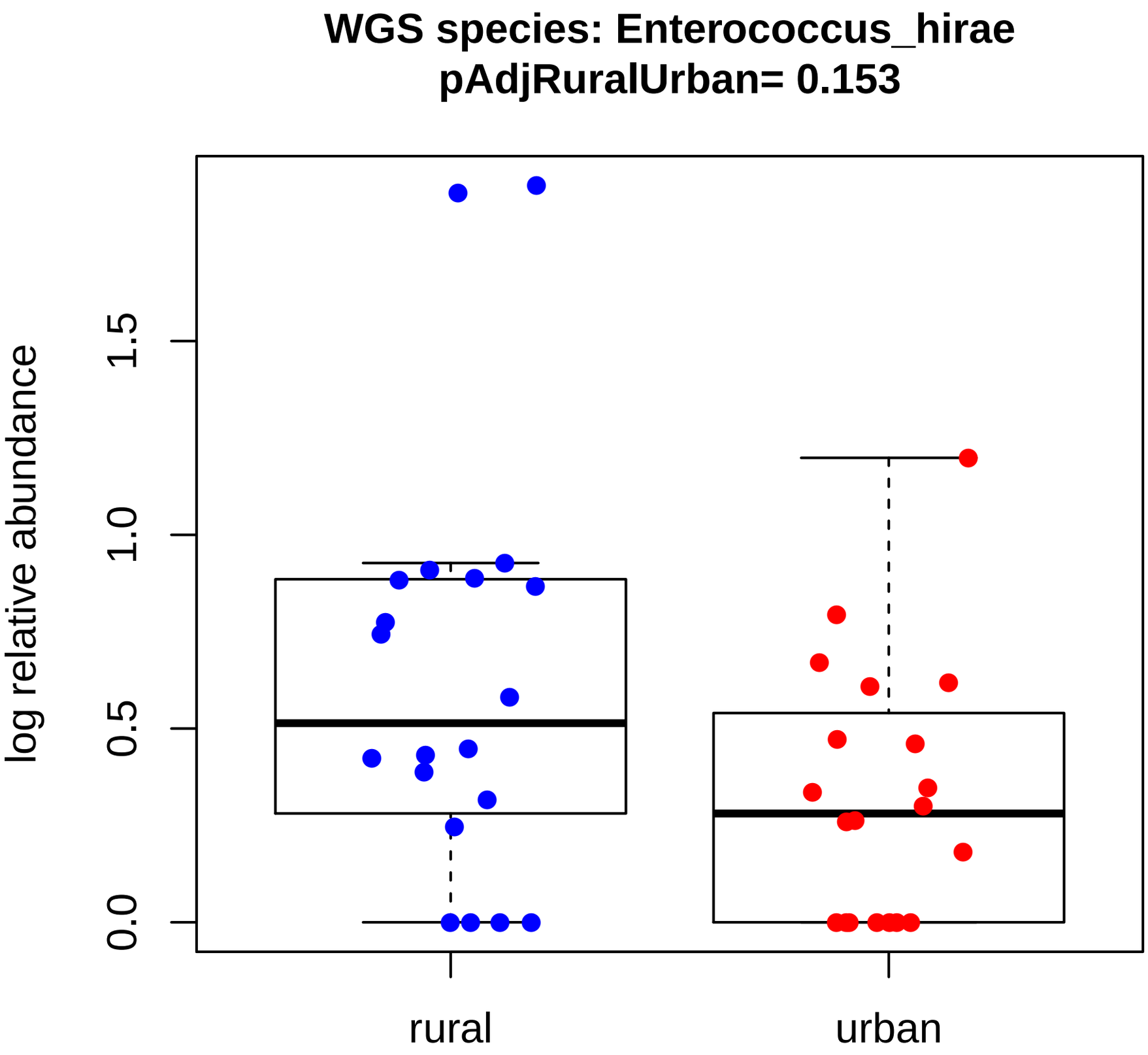

WGS species: Roseiflexus_castenholzii
pAdjRuralUrban= 0.151
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

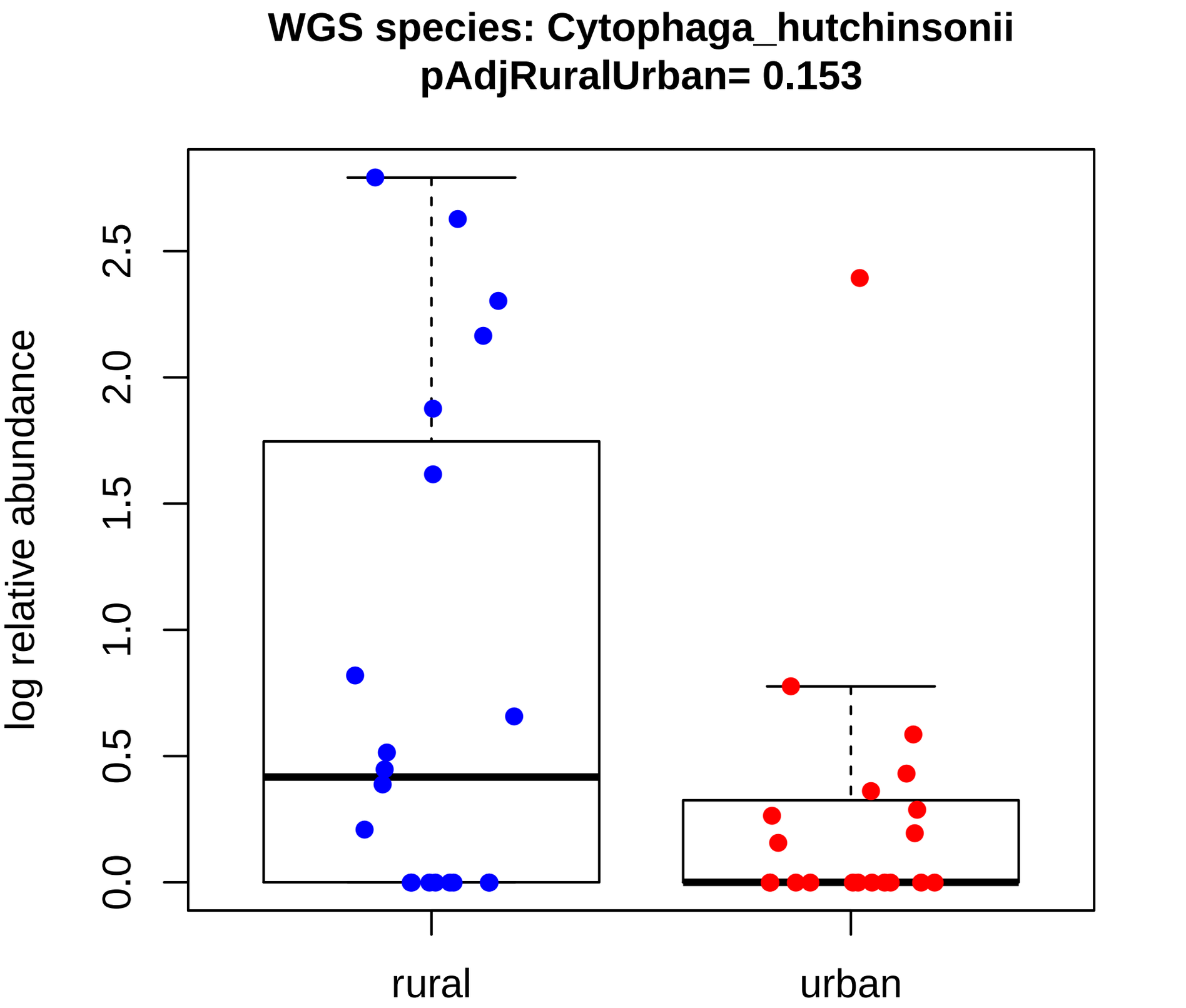

WGS species: Lawsonia_intracellularis
pAdjRuralUrban= 0.151
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

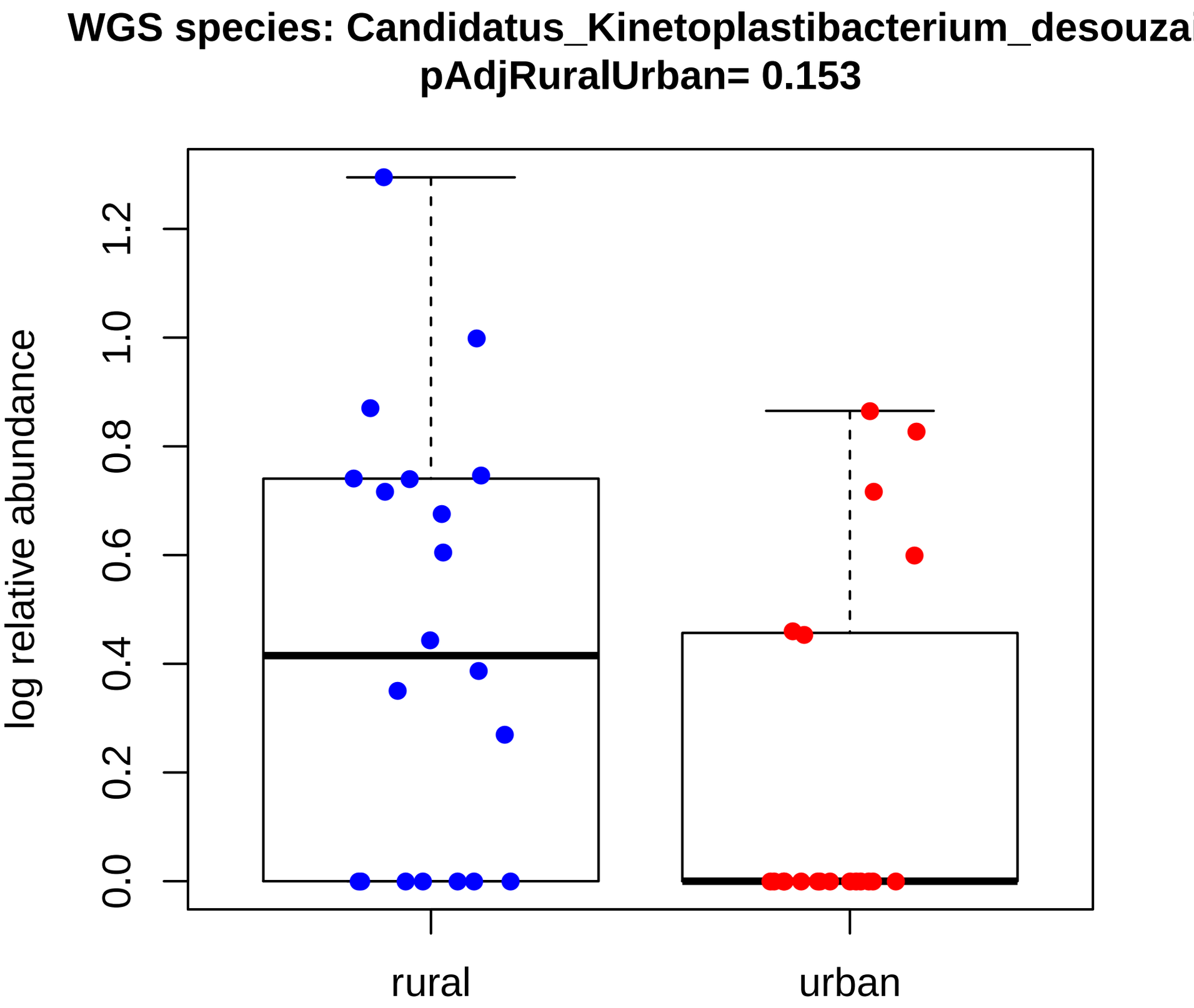

WGS species: Desulfomonile_tiedjei
pAdjRuralUrban= 0.151
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

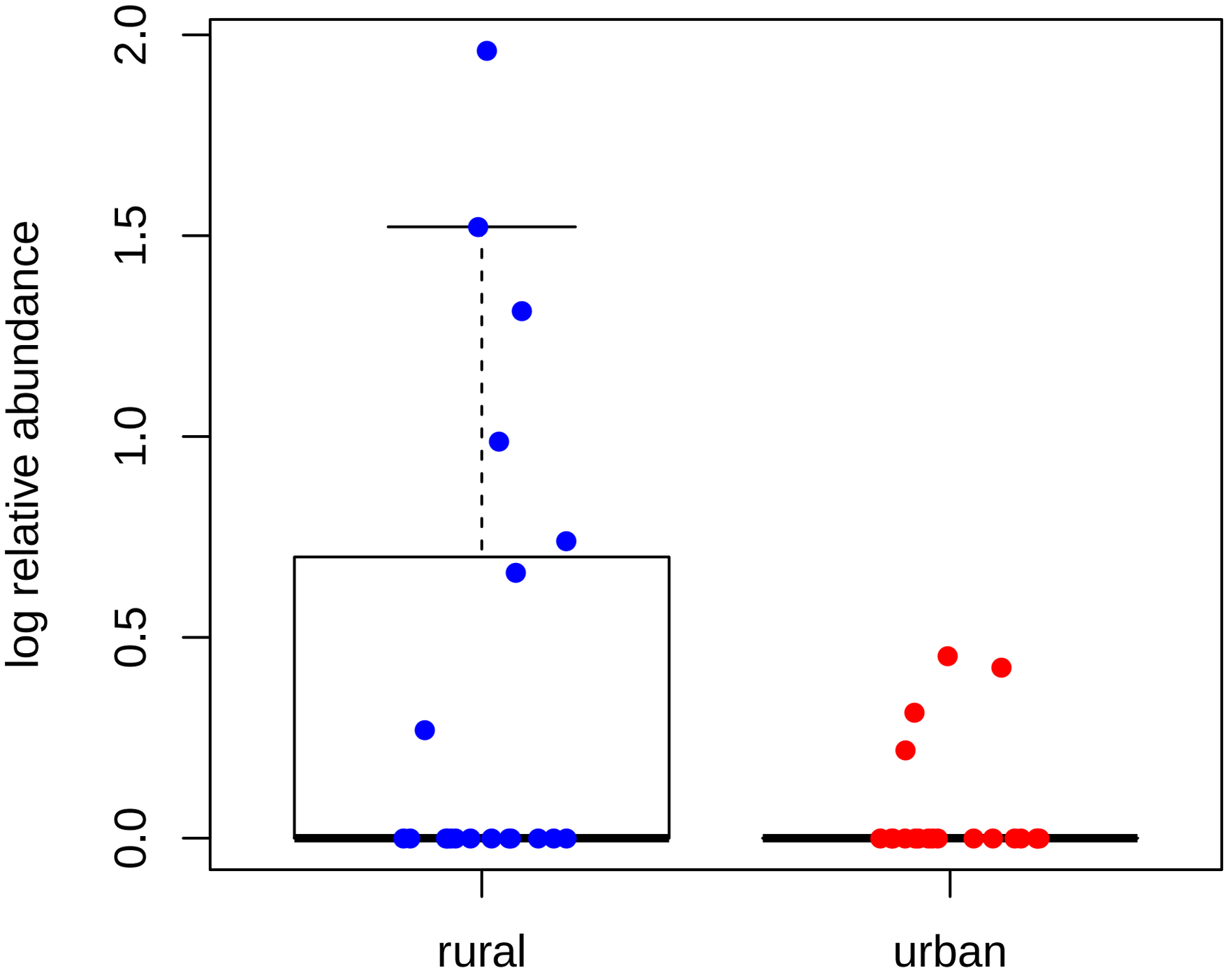

WGS species: Streptococcus_thermophilus
pAdjRuralUrban= 0.151
log relative abundance
4.0
3.5
3.0
2.5
2.0
1.5
1.0
rural
urban

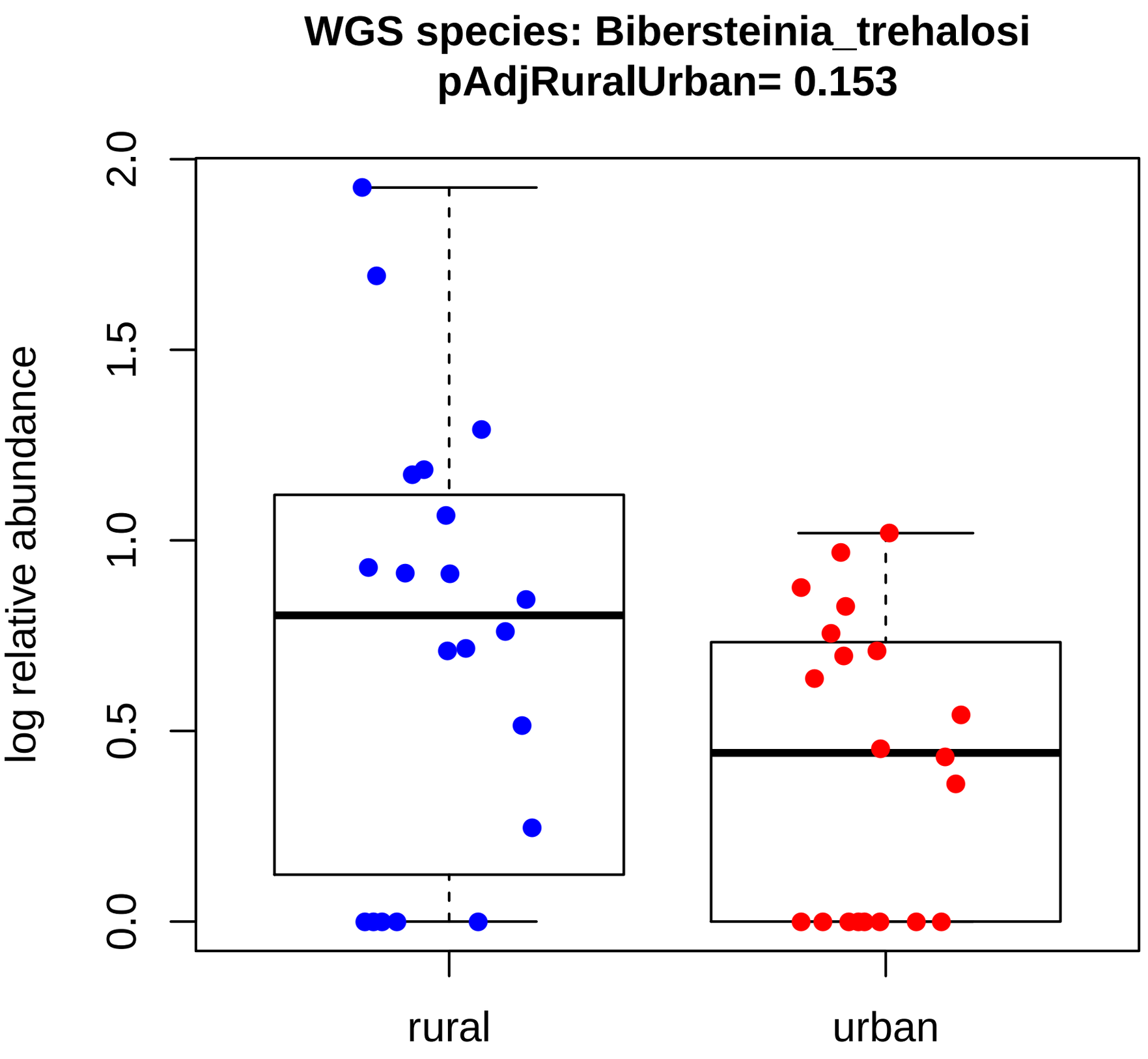

WGS species: Actinobacillus_succinogenes
pAdjRuralUrban= 0.151
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

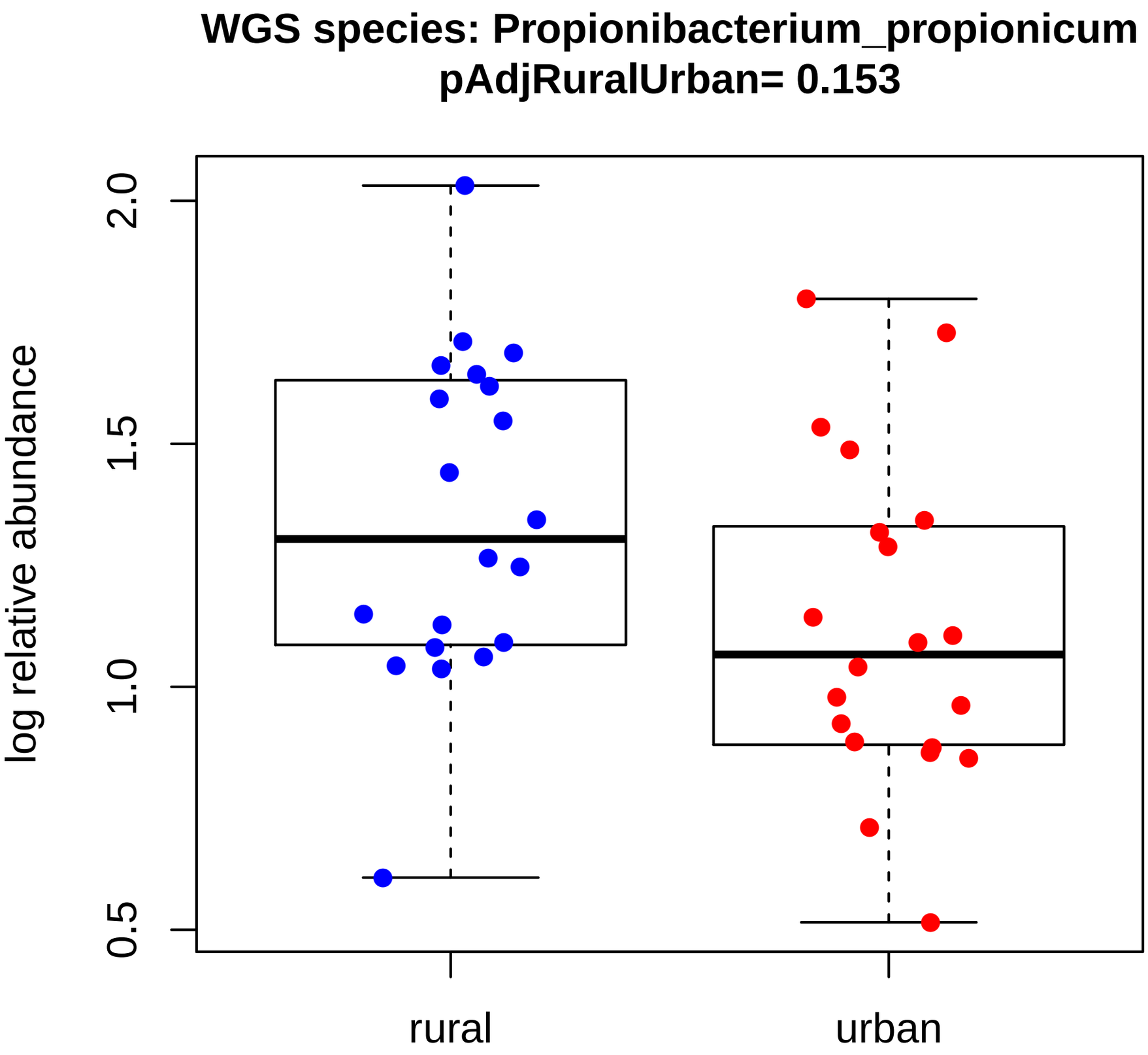

WGS species: Enterococcus_hirae
pAdjRuralUrban= 0.153
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

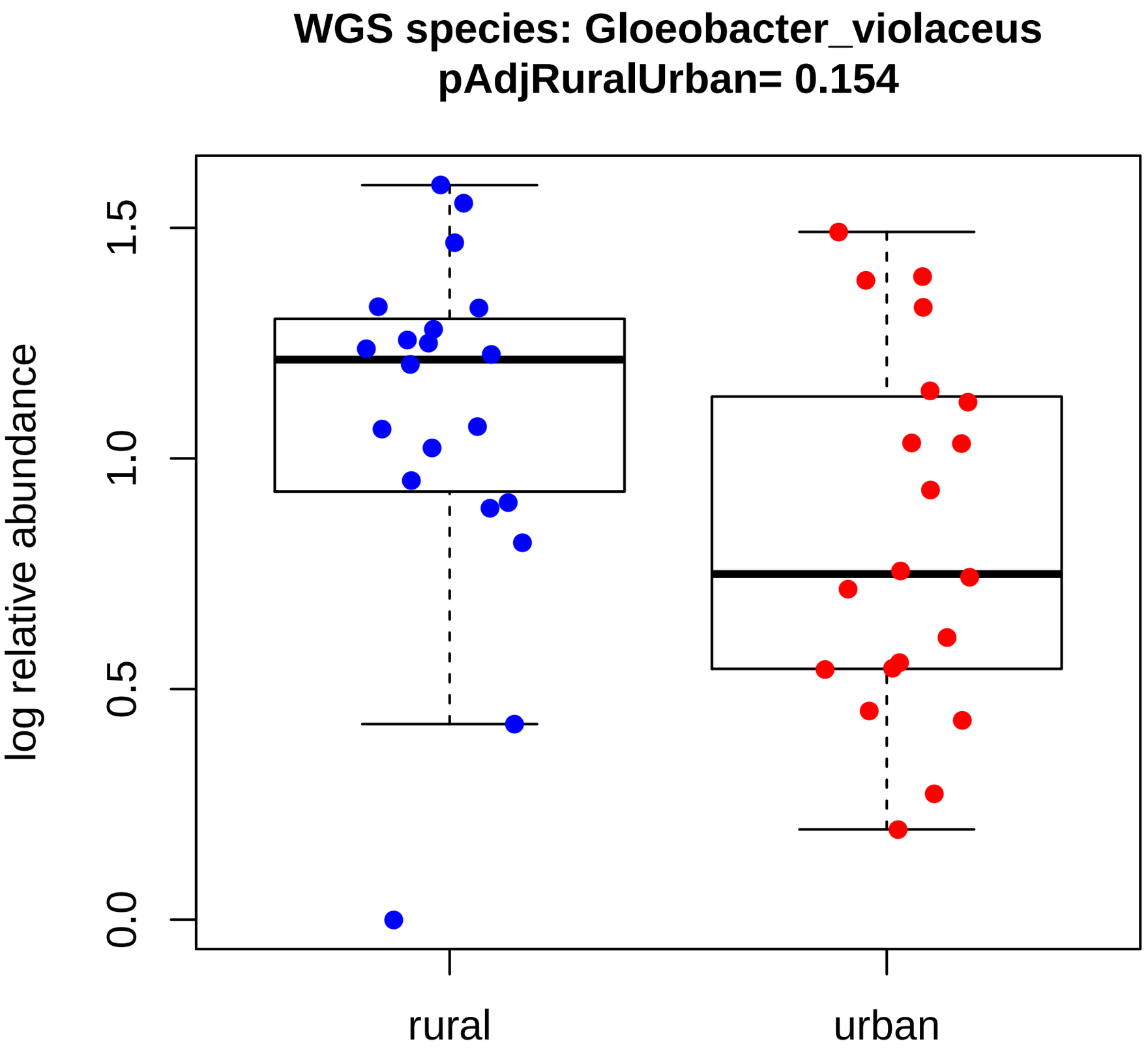

WGS species: Cytophaga_hutchinsonii
pAdjRuralUrban= 0.153
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

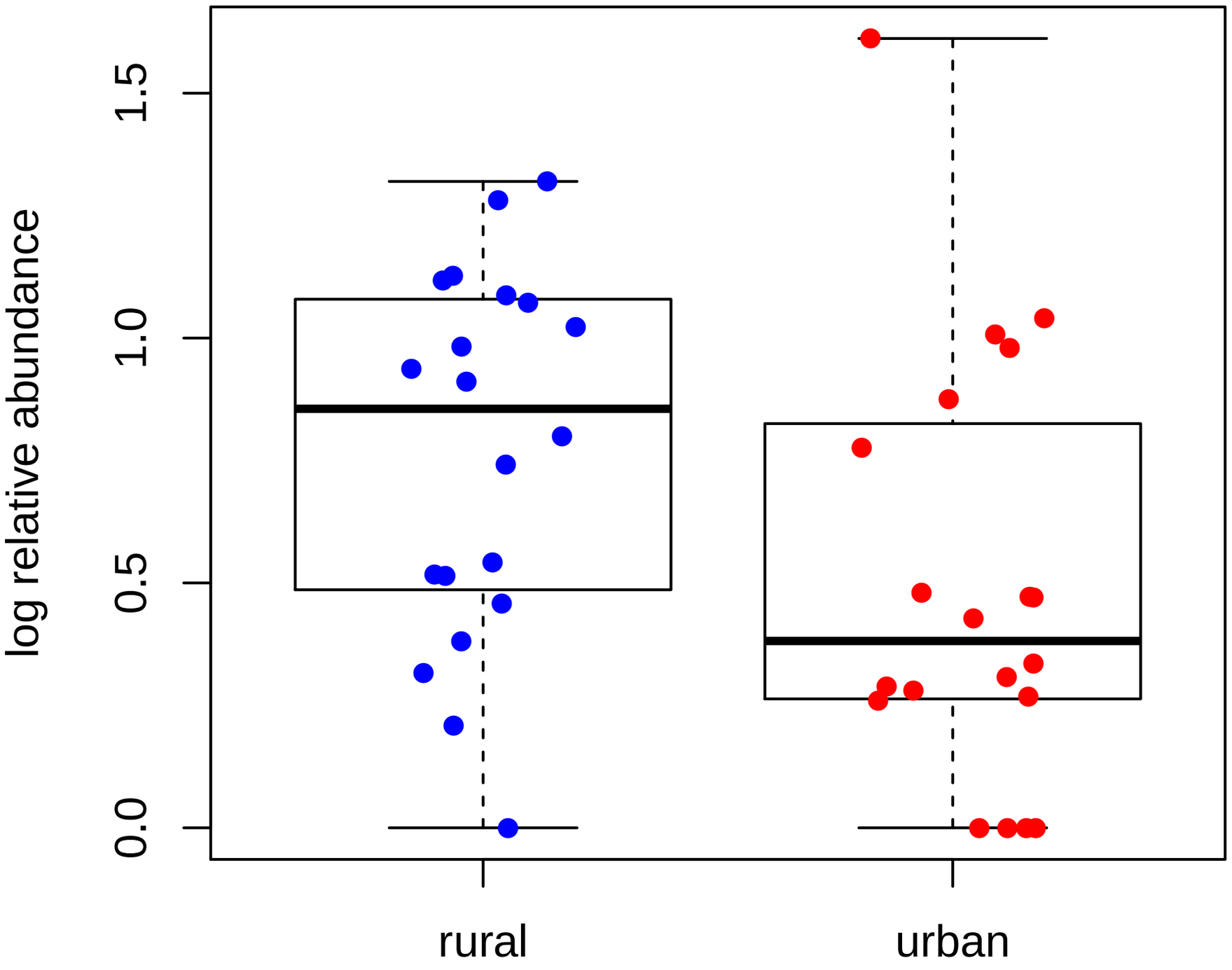

WGS species: Candidatus_Kinetoplastibacterium_desouzai
pAdjRuralUrban= 0.153
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

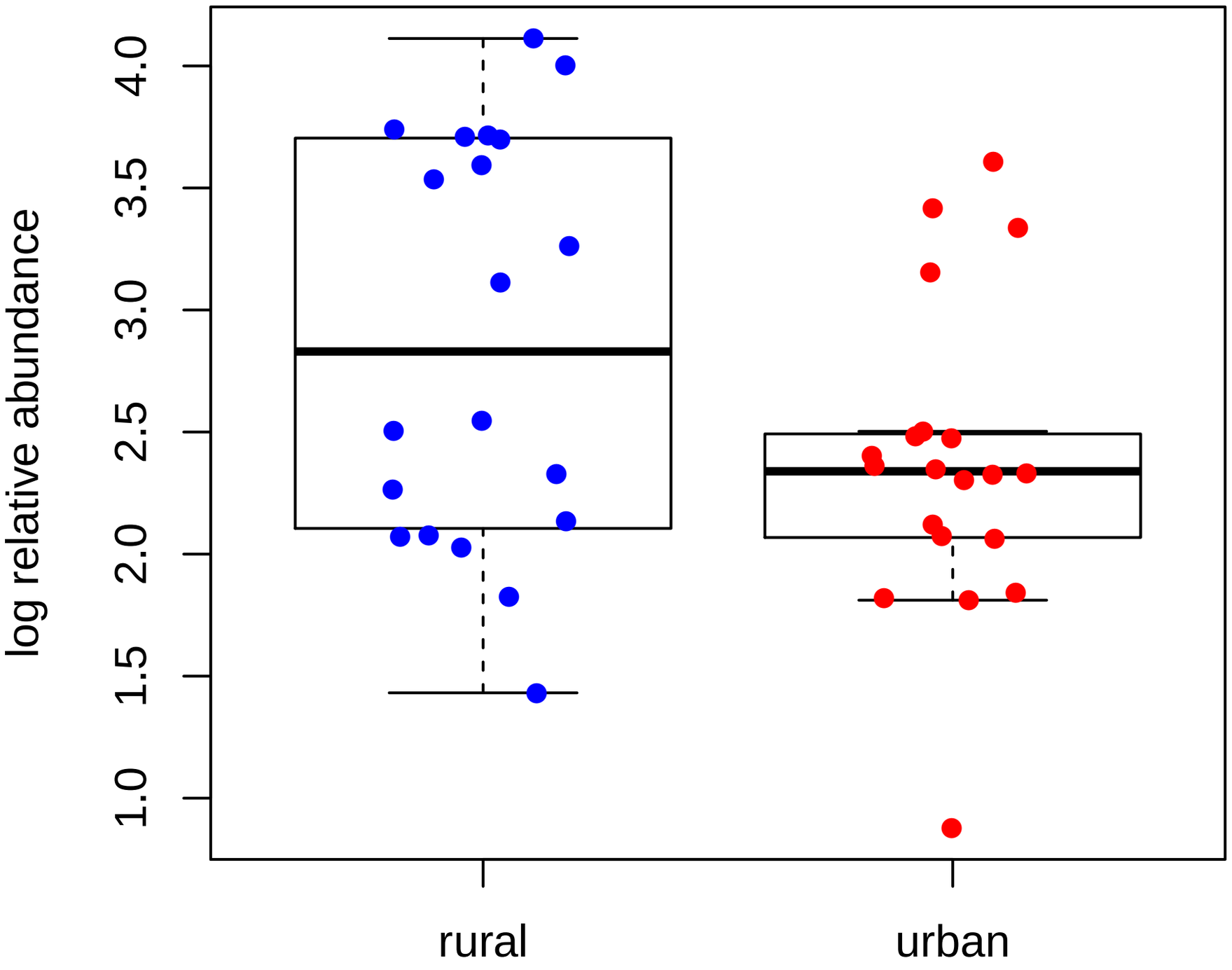

WGS species: Shewanella_denitrificans
pAdjRuralUrban= 0.153
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

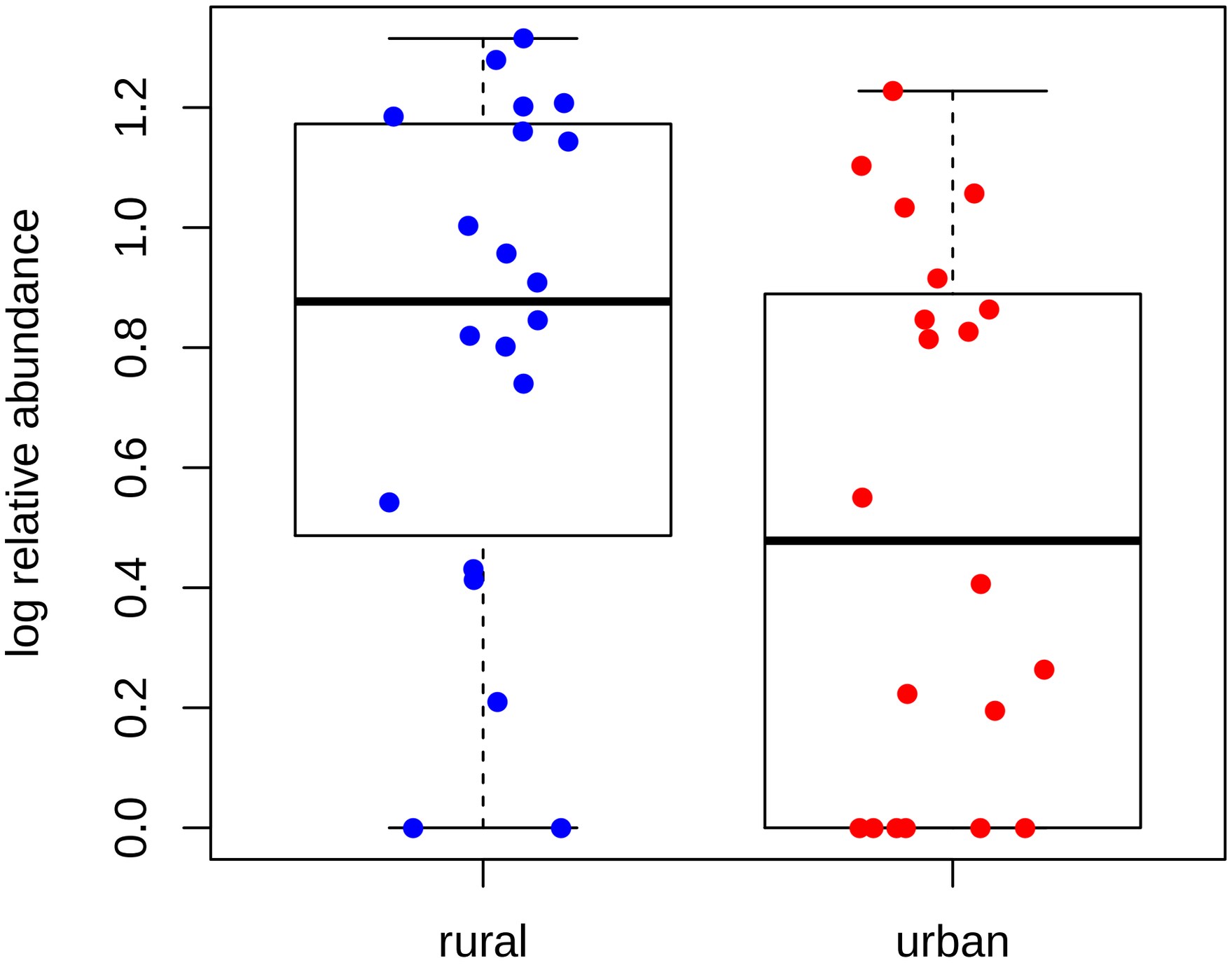

WGS species: Bibersteinia_trehalosi
pAdjRuralUrban= 0.153
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

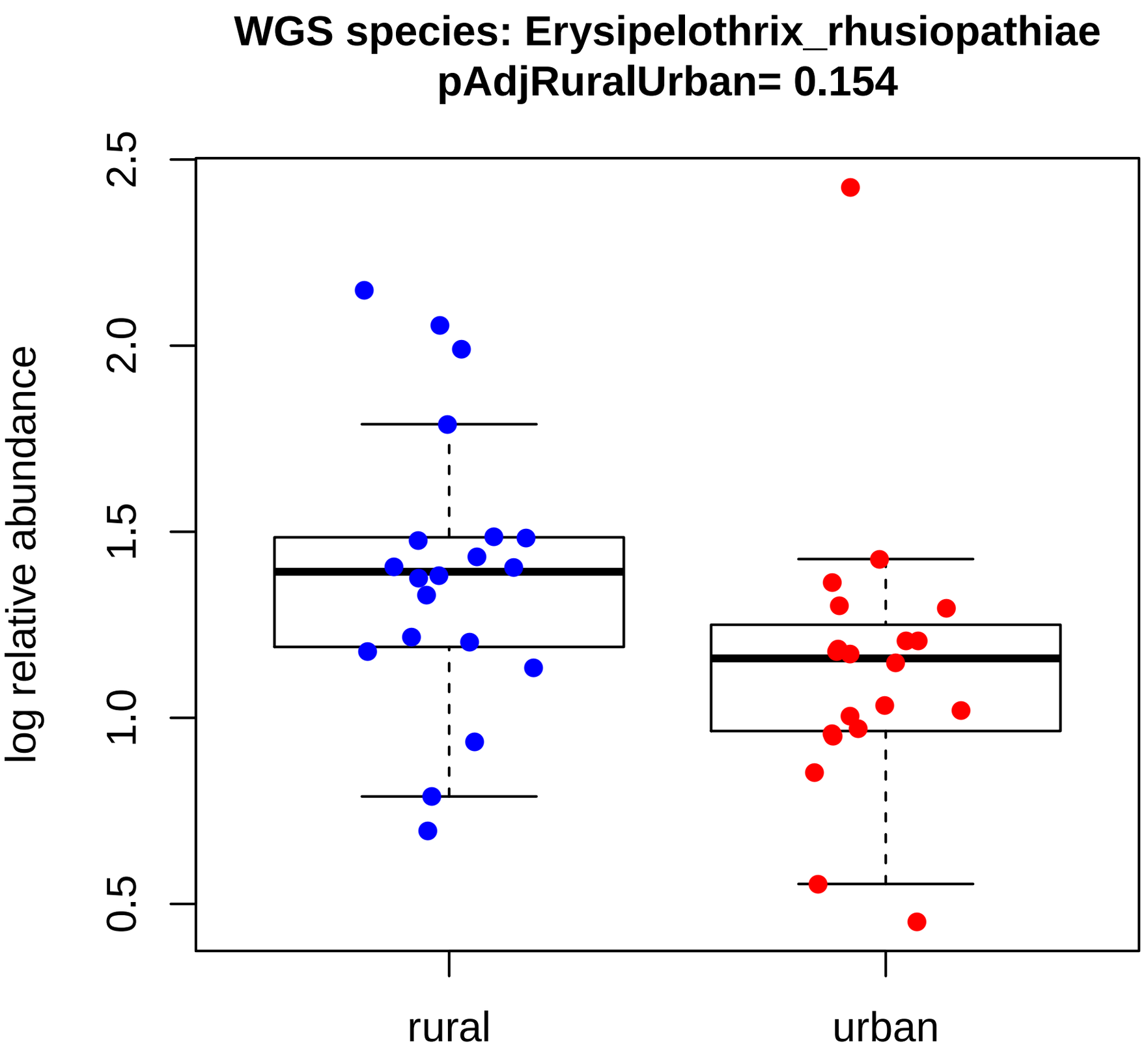

WGS species: Propionibacterium_propionicum
pAdjRuralUrban= 0.153
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

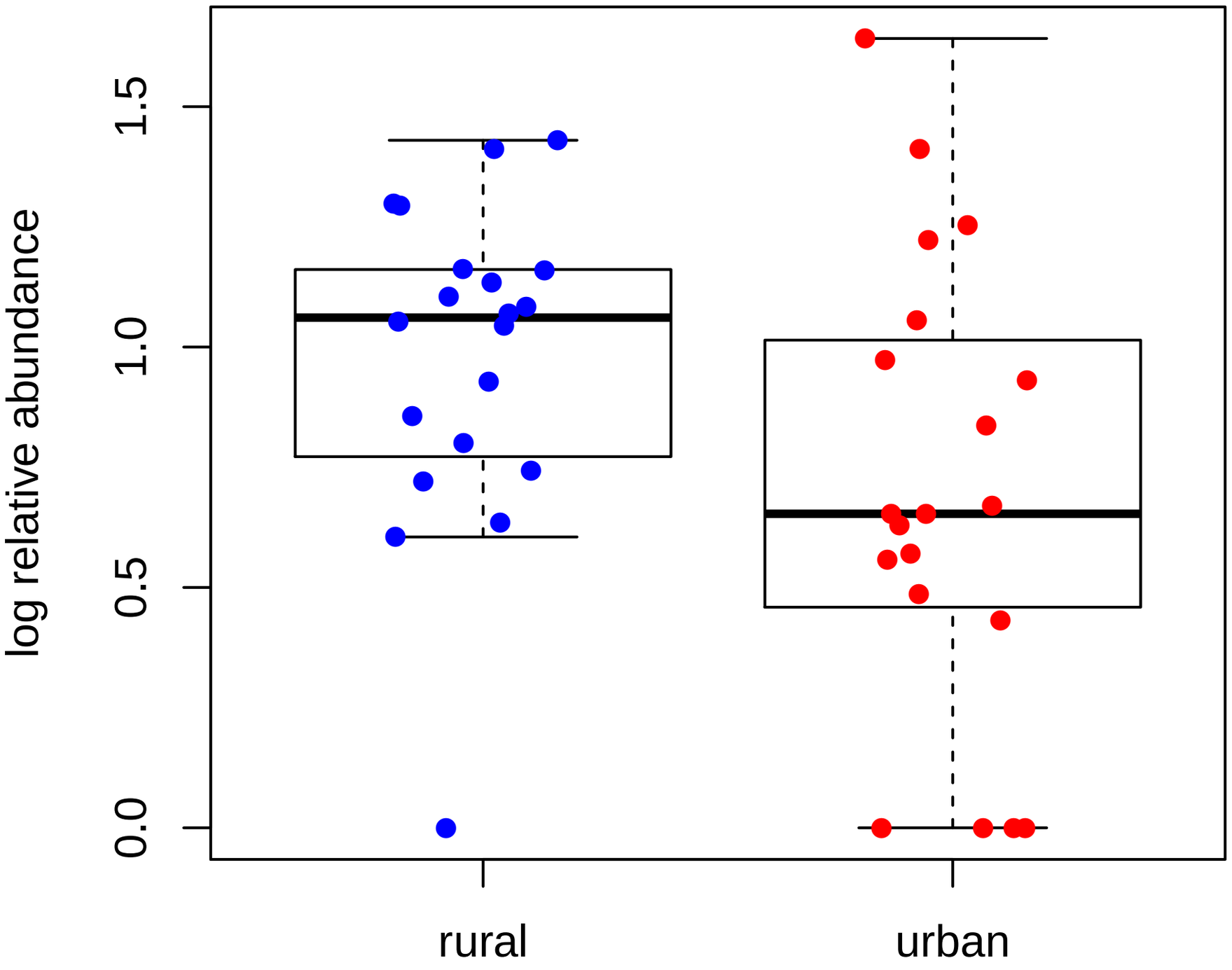

WGS species: Gloeobacter_violaceus
pAdjRuralUrban= 0.154
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

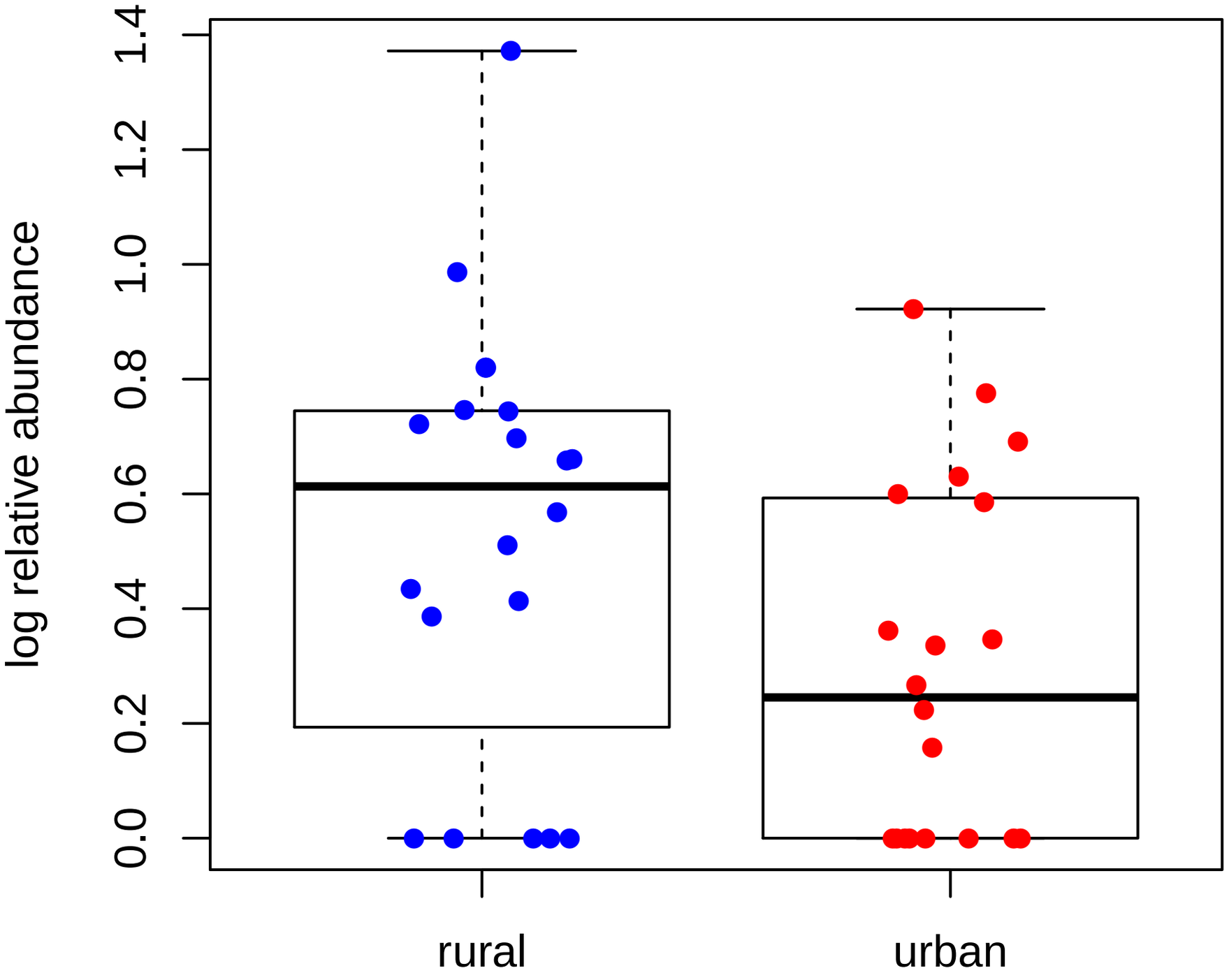

WGS species: Streptococcus_parauberis
pAdjRuralUrban= 0.154
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

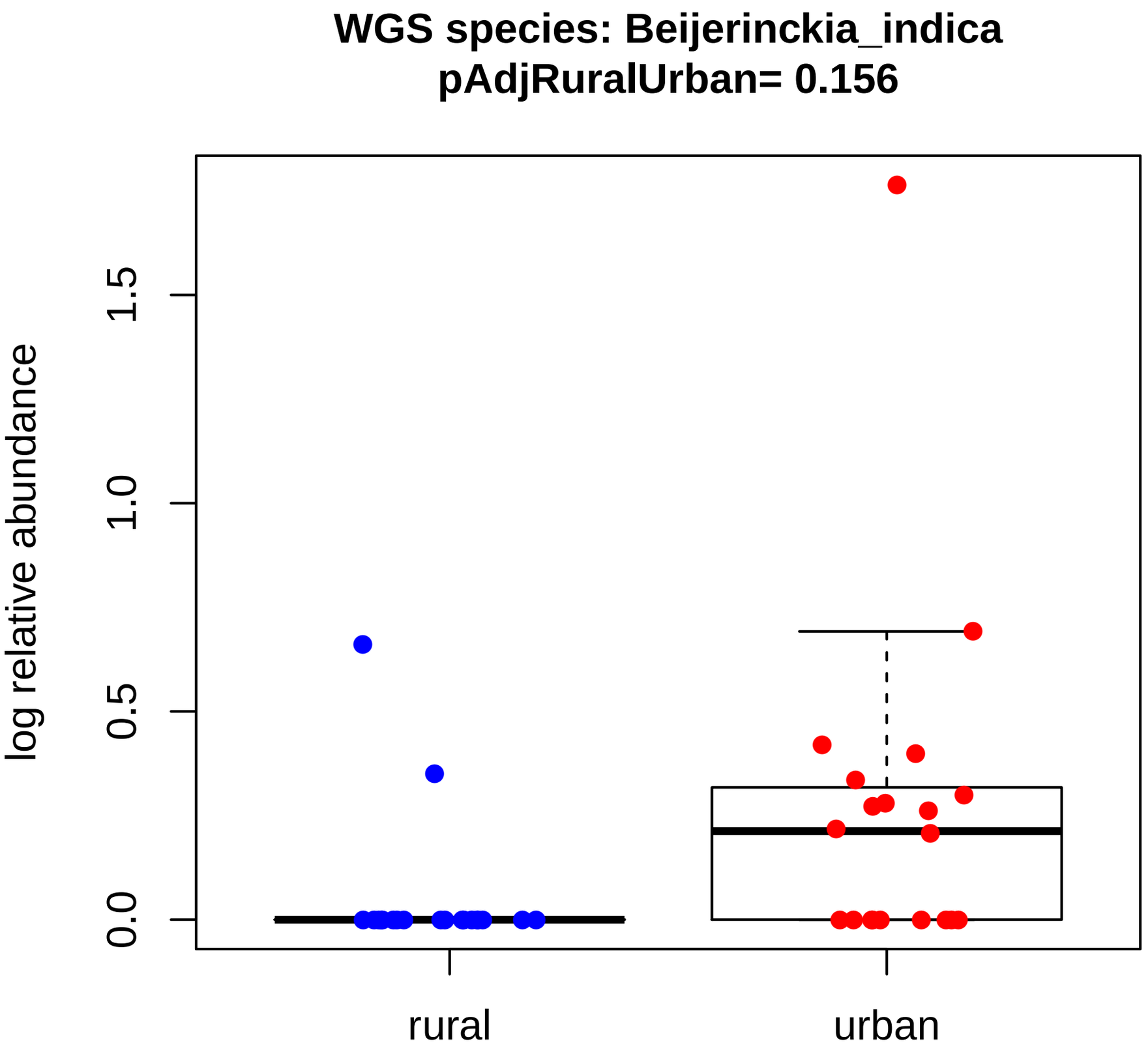

WGS species: Prevotella_dentalis
pAdjRuralUrban= 0.154
log relative abundance
4.0
3.5
3.0
2.5
2.0
1.5
1.0
rural
urban

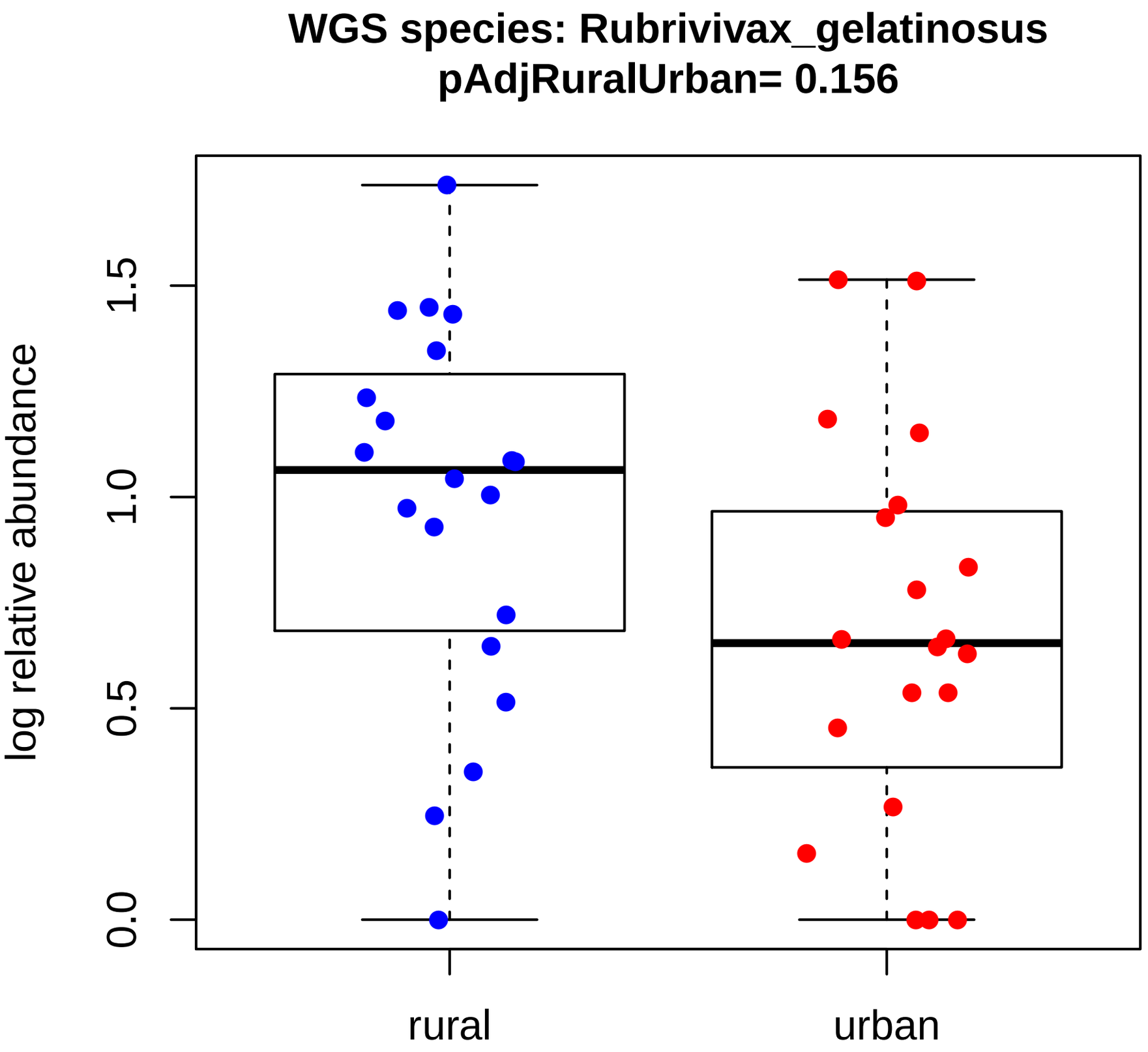

WGS species: Azospirillum_brasilense
pAdjRuralUrban= 0.154
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

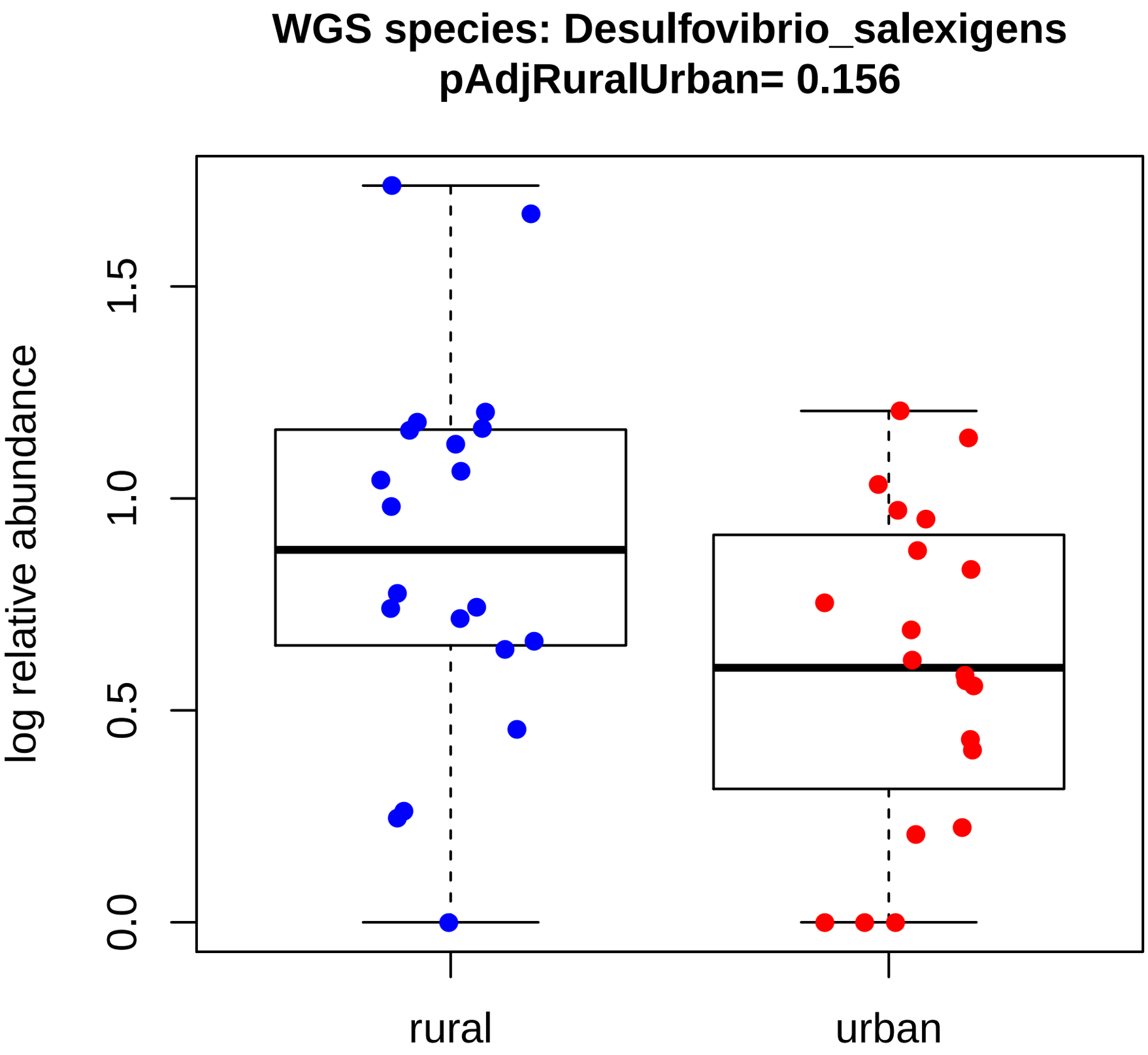

WGS species: Erysipelothrix_rhusiopathiae
pAdjRuralUrban= 0.154
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

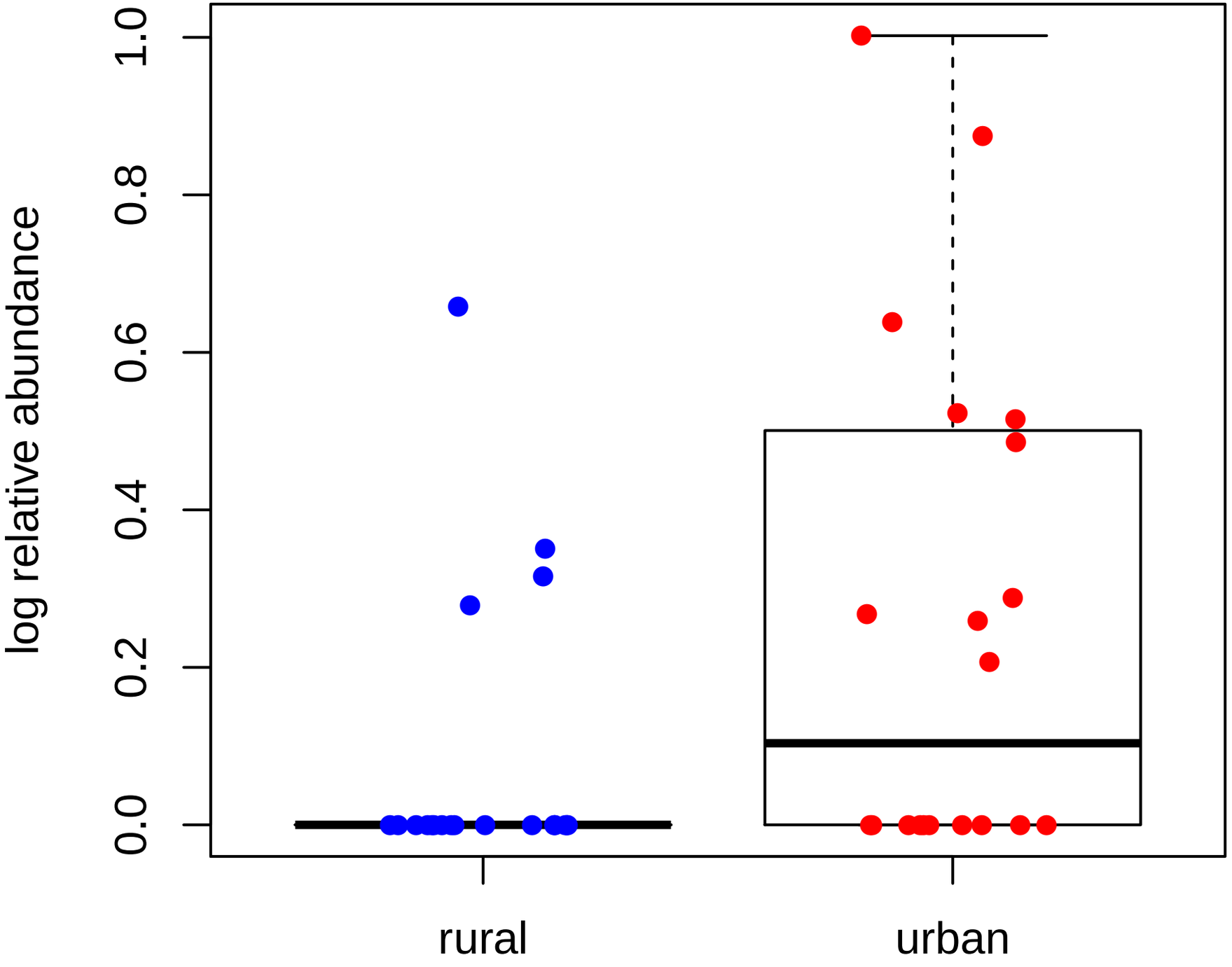

WGS species: Treponema_azotonutricium
pAdjRuralUrban= 0.154
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

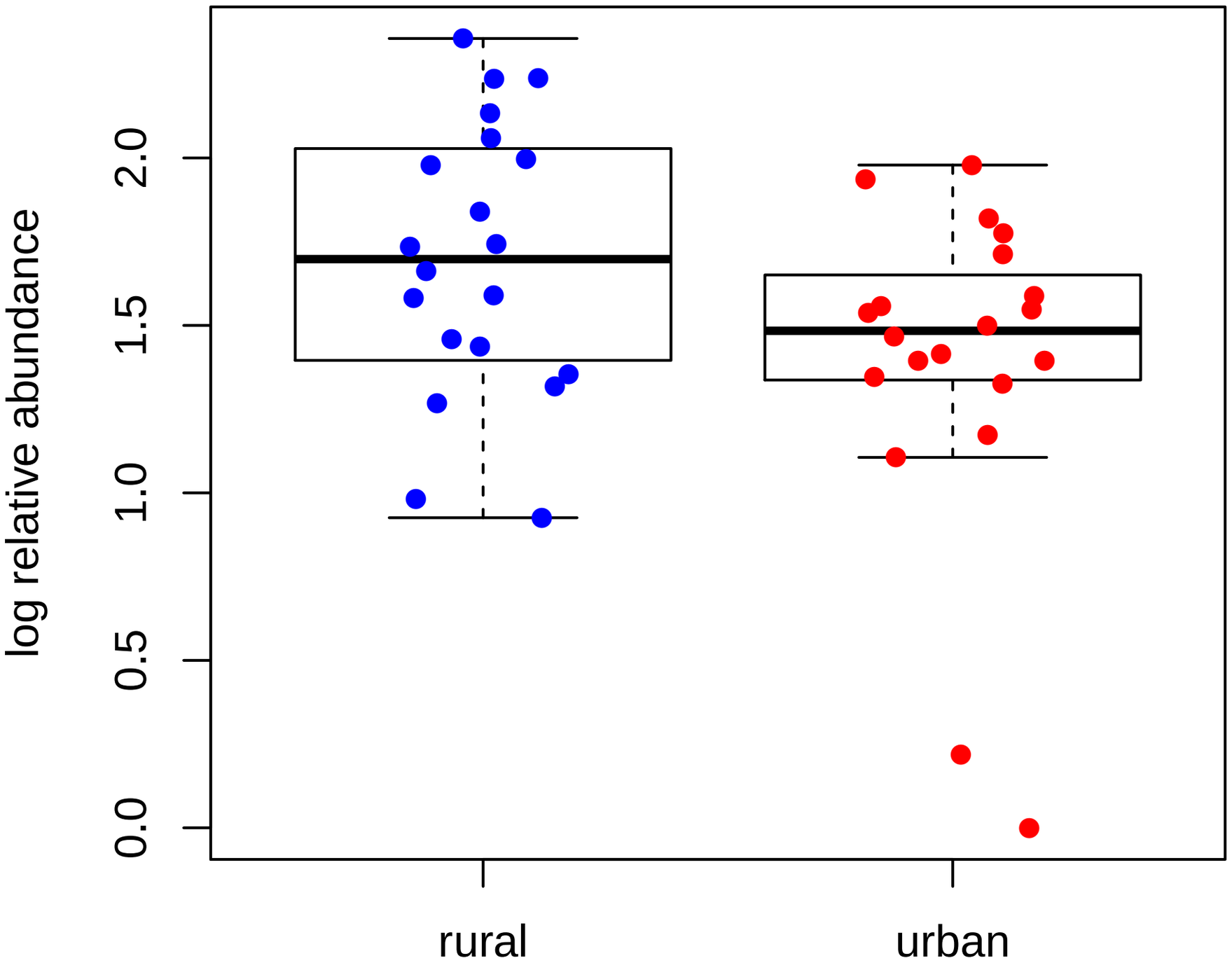

WGS species: Sulfurovum_sp._NBC37.1
pAdjRuralUrban= 0.154
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

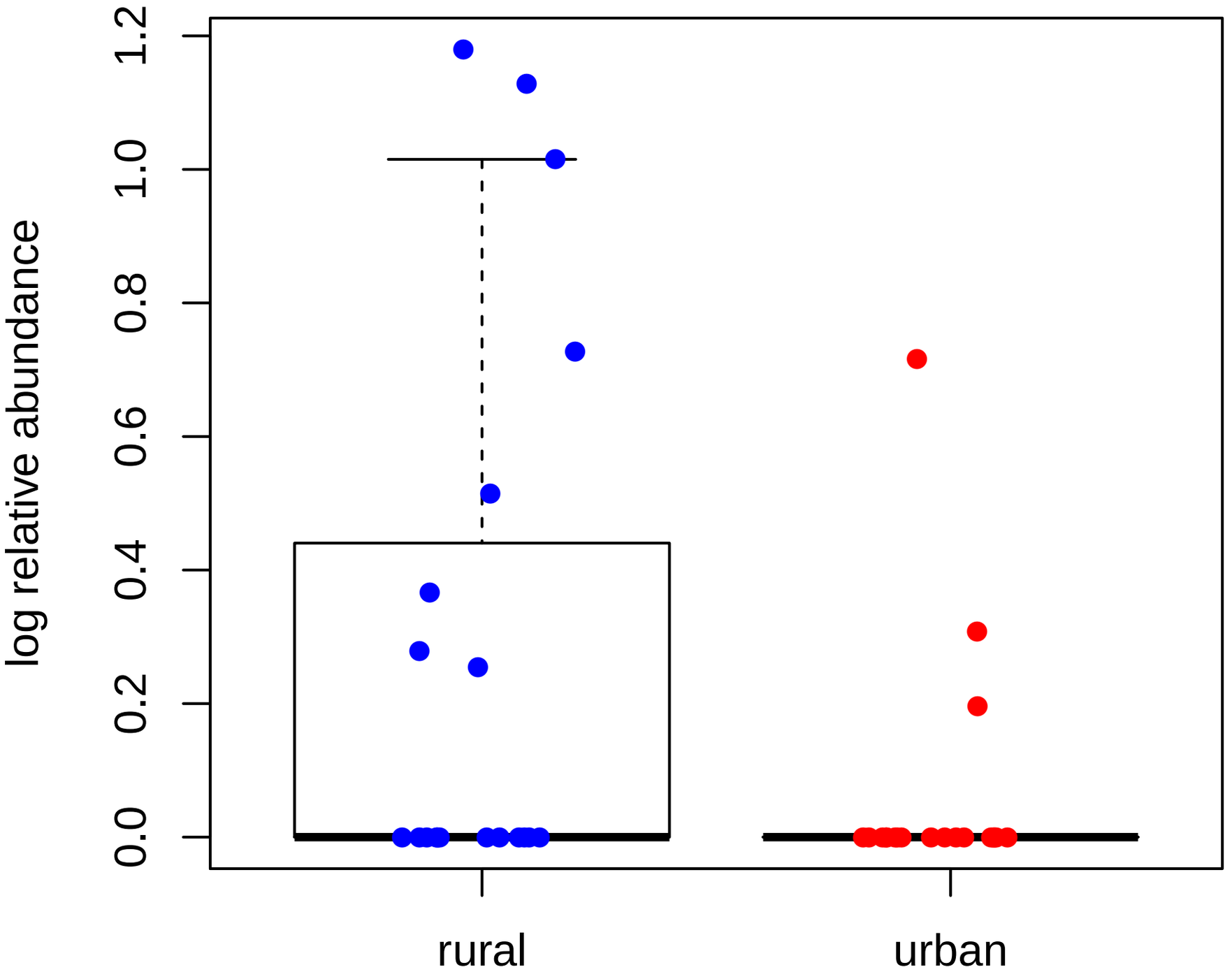

WGS species: Beijerinckia_indica
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

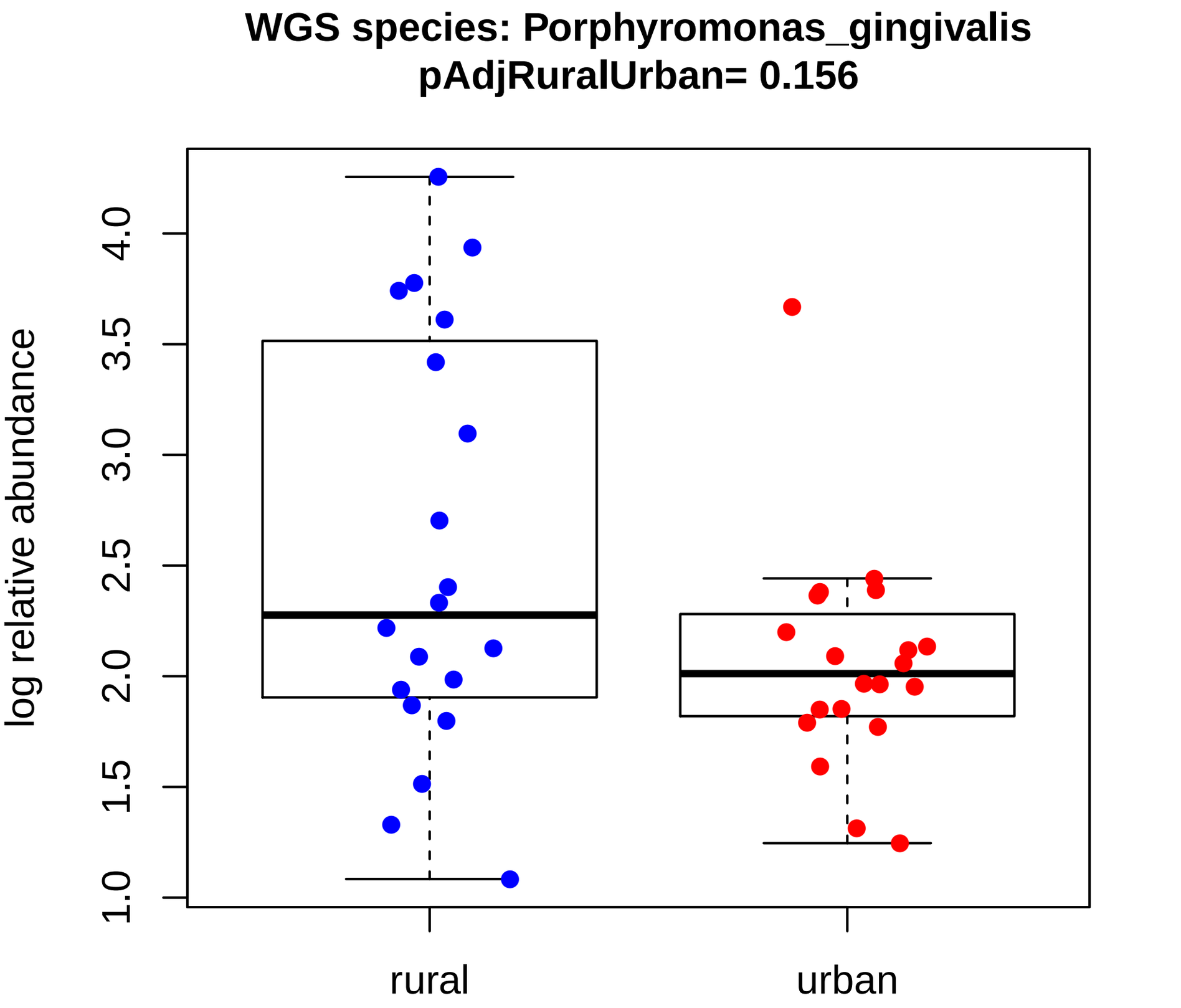

WGS species: Rubrivivax_gelatinosus
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

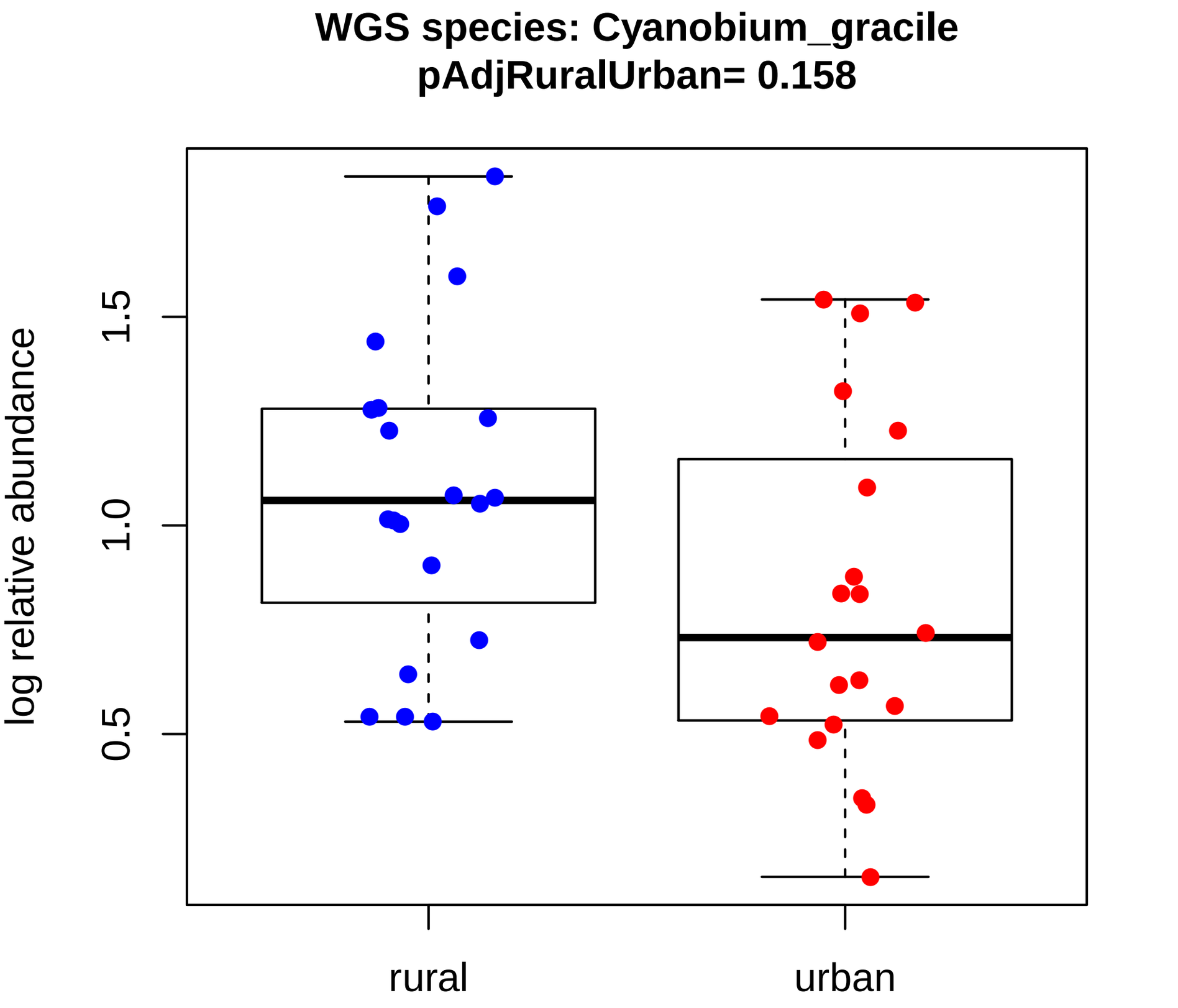

WGS species: Desulfovibrio_salexigens
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

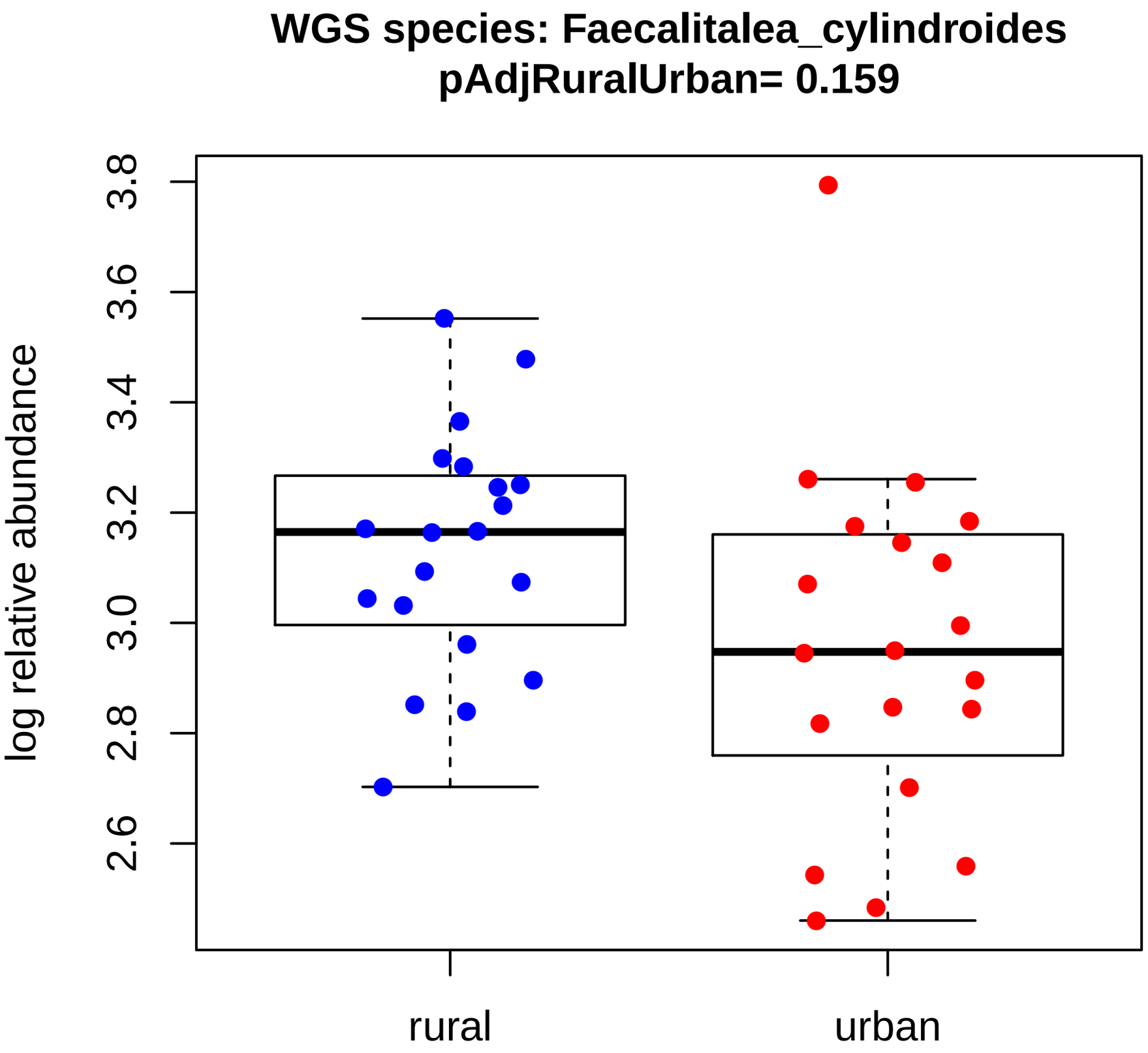

WGS species: Thermomicrobium_roseum
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

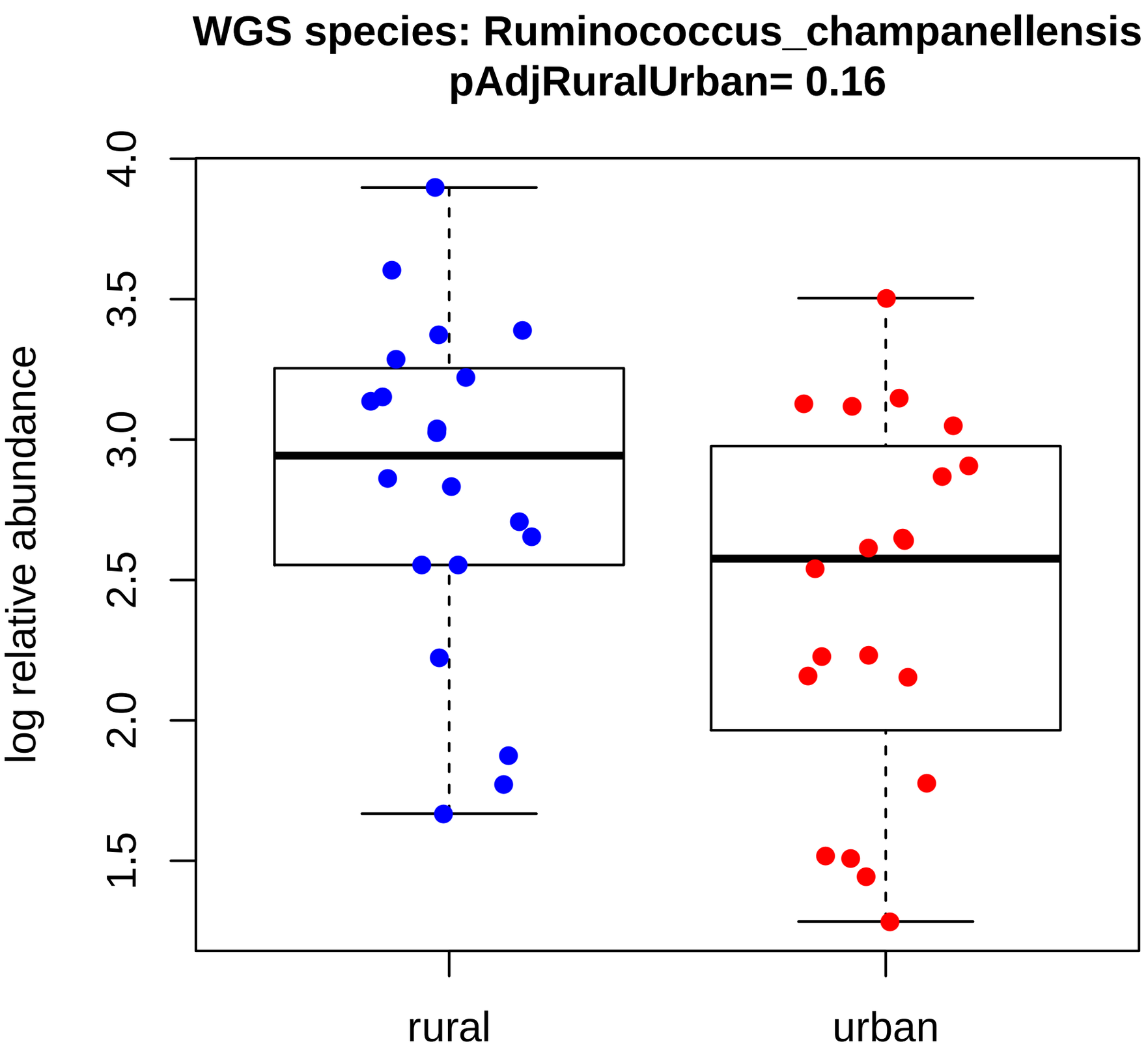

WGS species: Fibrella_aestuarina
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

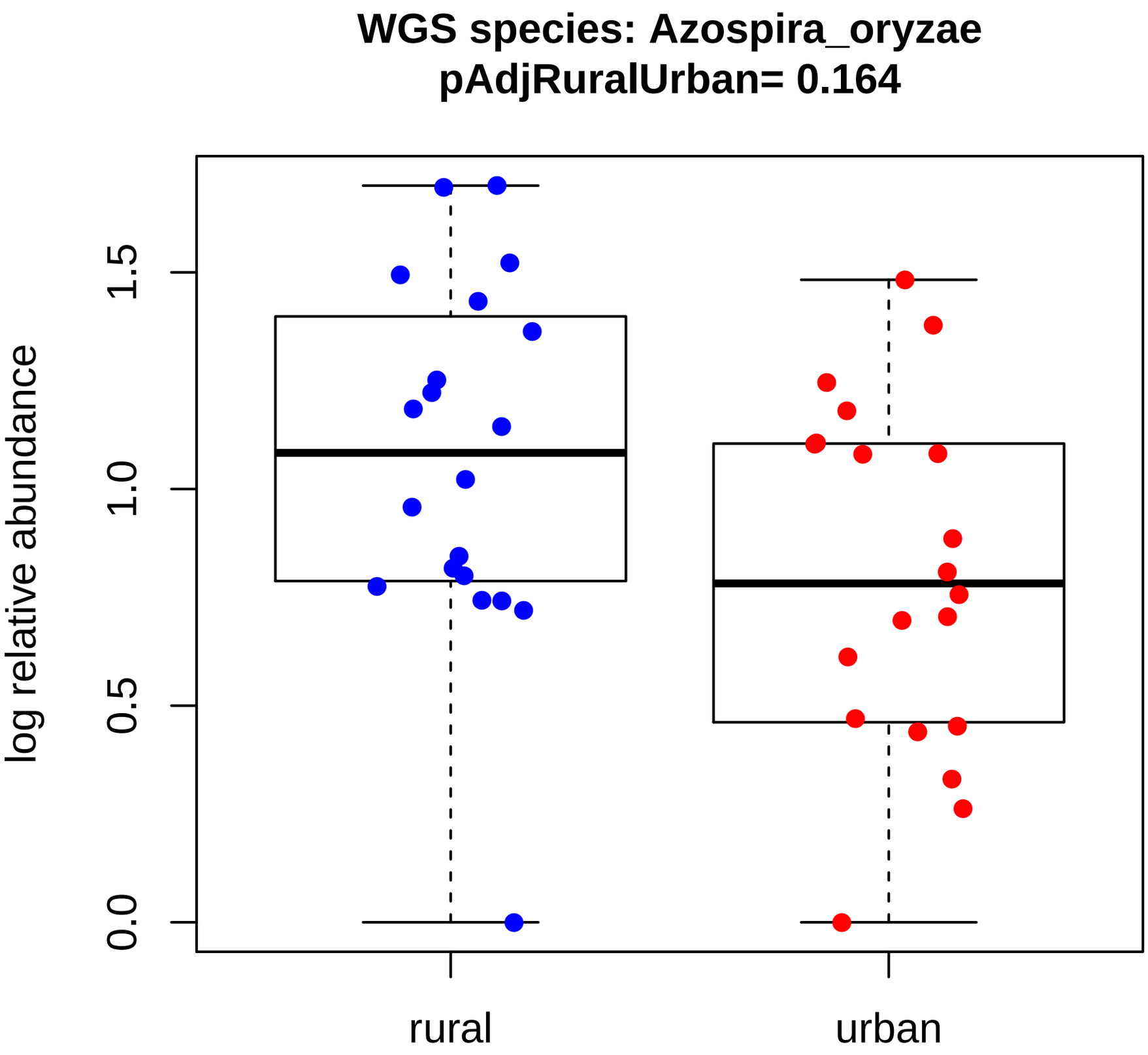

WGS species: Acinetobacter_calcoaceticus
pAdjRuralUrban= 0.156
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

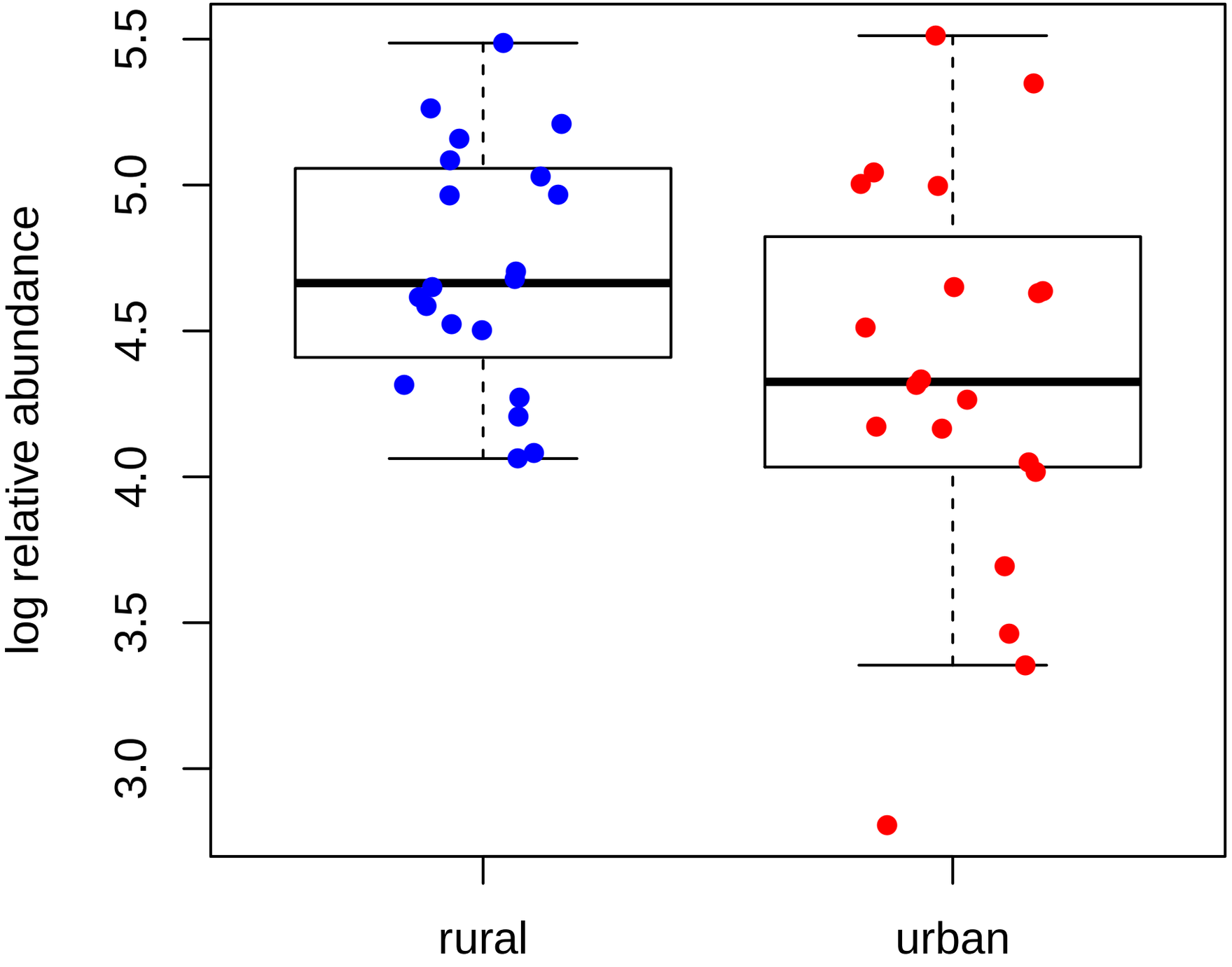

WGS species: Porphyromonas_gingivalis
pAdjRuralUrban= 0.156
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

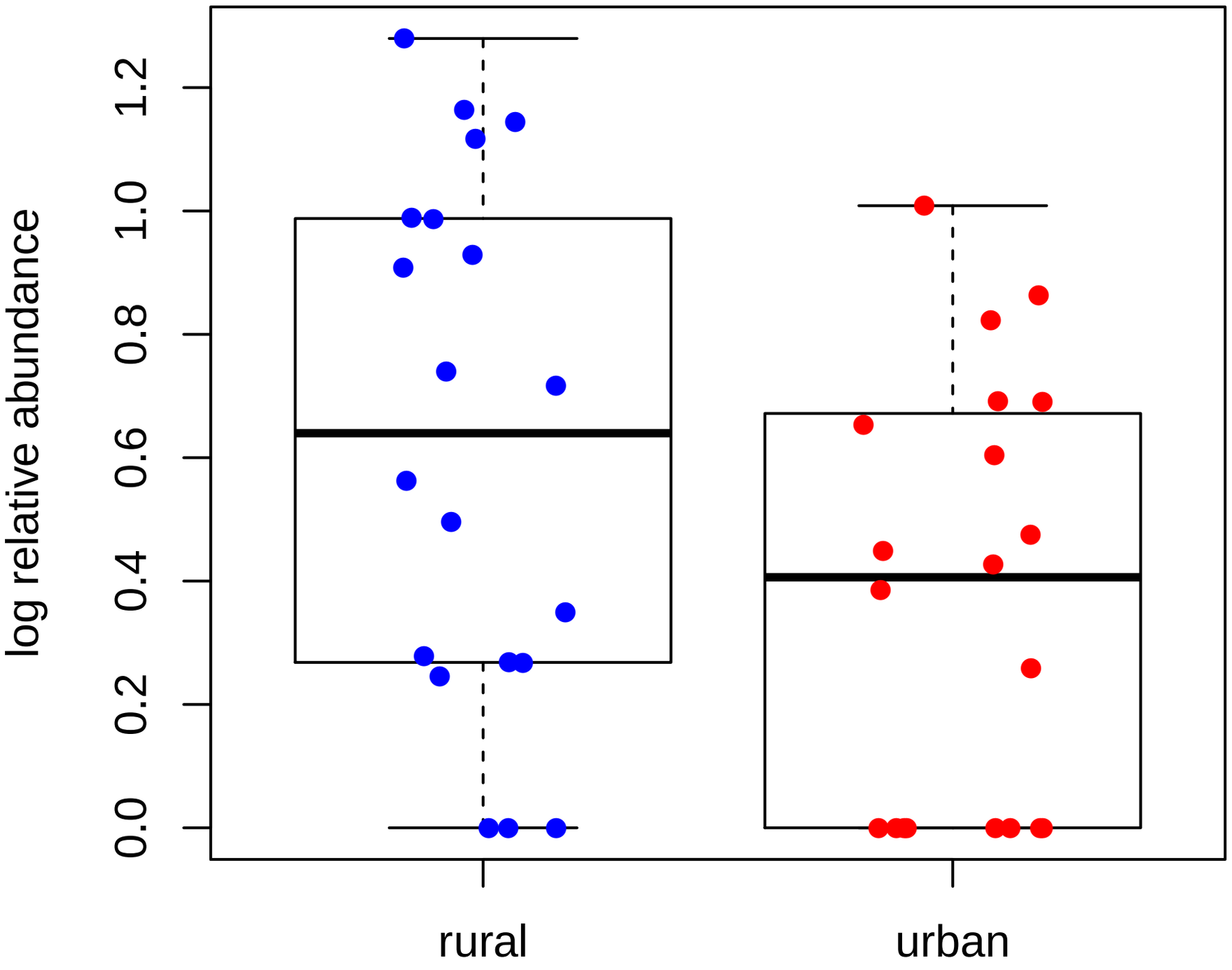

WGS species: Cyanobium_gracile
pAdjRuralUrban= 0.158
log relative abundance
0.5
1.0
1.5
rural
urban

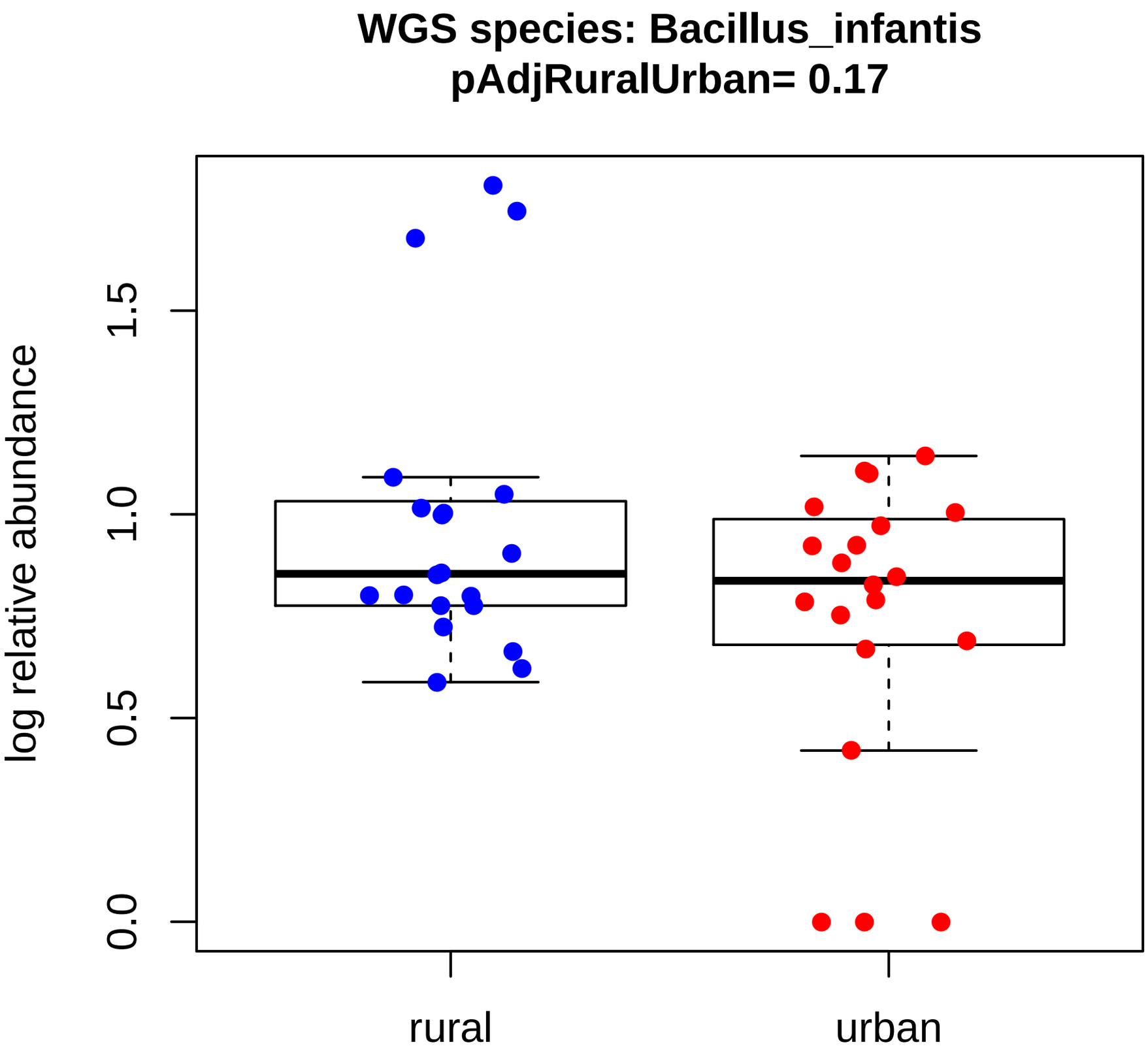

WGS species: Faecalitalea_cylindroides
pAdjRuralUrban= 0.159
log relative abundance
2.6
2.8
3.0
3.2
3.4
3.6
3.8
rural
urban

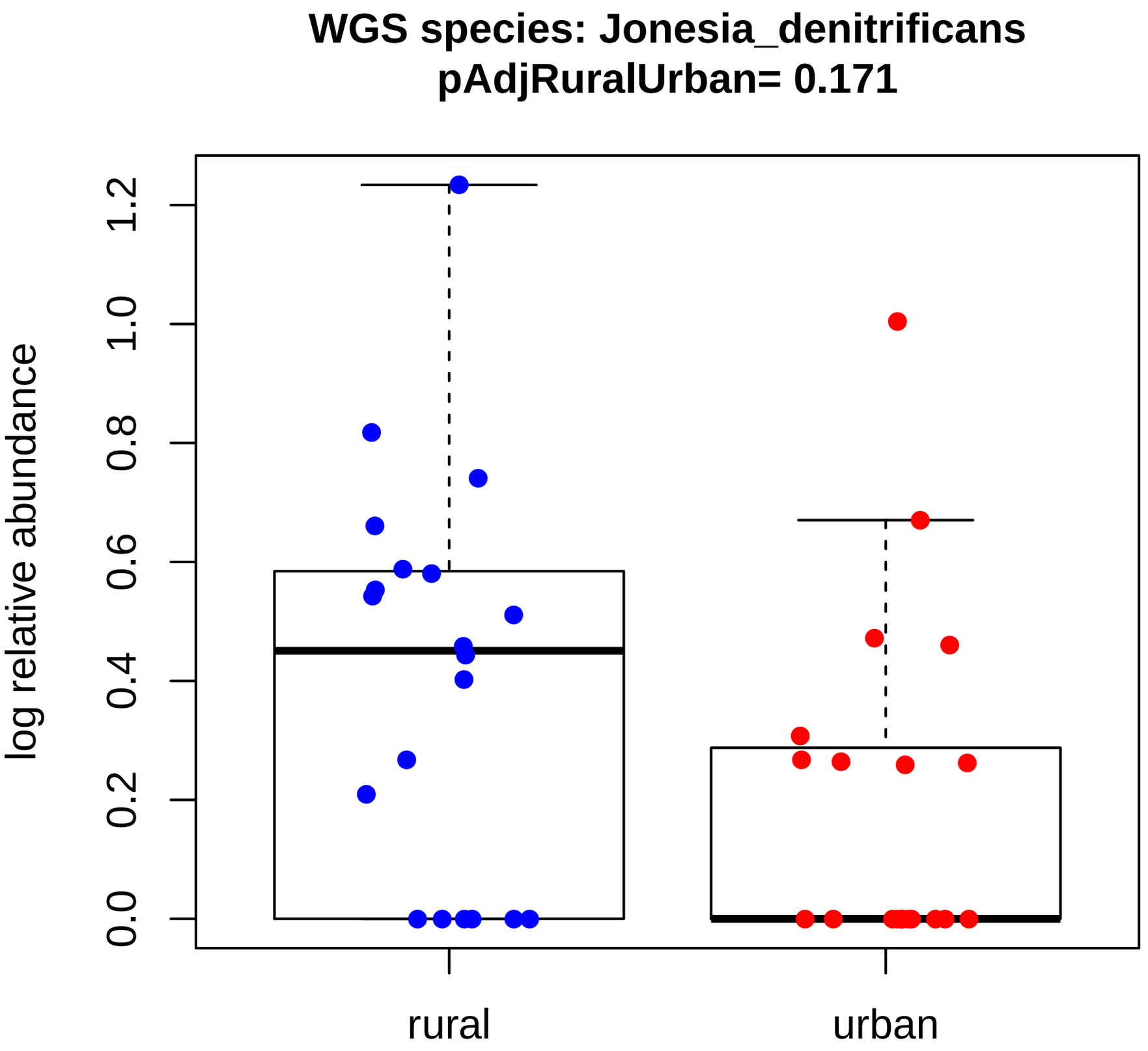

WGS species: Ruminococcus_champanellensis
pAdjRuralUrban= 0.16
log relative abundance
4.0
3.5
3.0
2.5
2.0
1.5
rural
urban

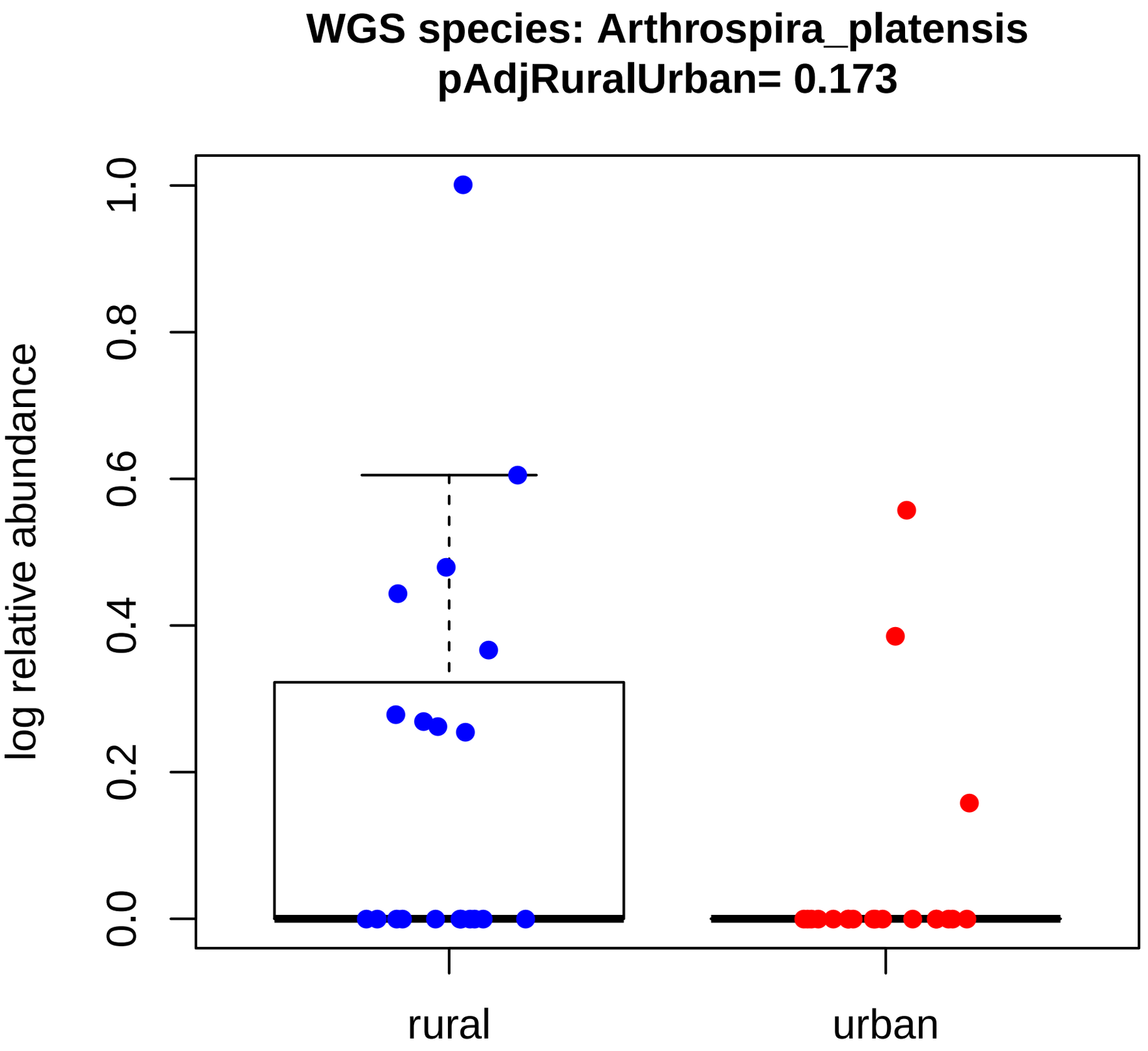

WGS species: Azospira_oryzae
pAdjRuralUrban= 0.164
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

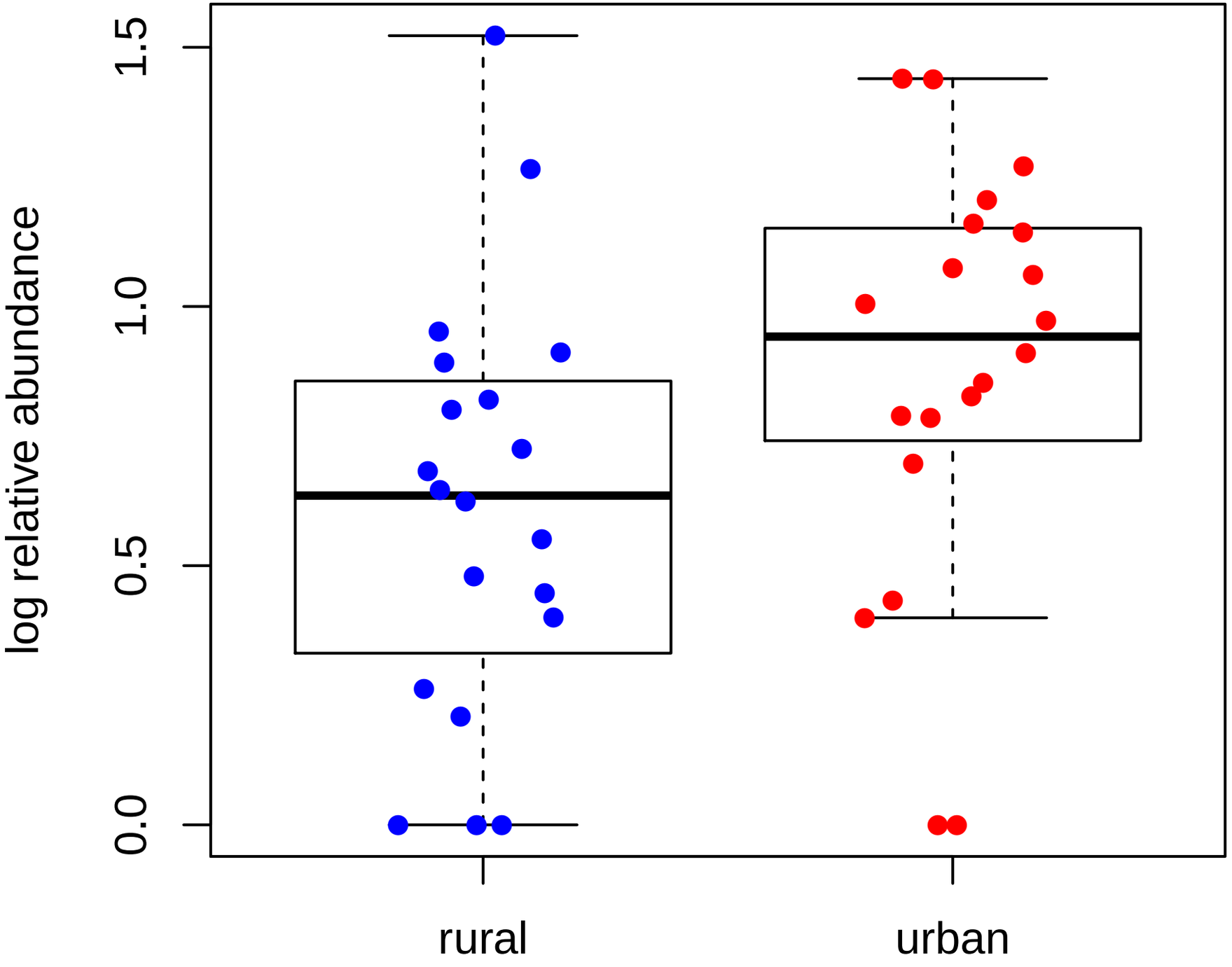

WGS species: Roseburia_intestinalis
pAdjRuralUrban= 0.166
log relative abundance
5.5
5.0
4.5
4.0
3.5
3.0
rural
urban

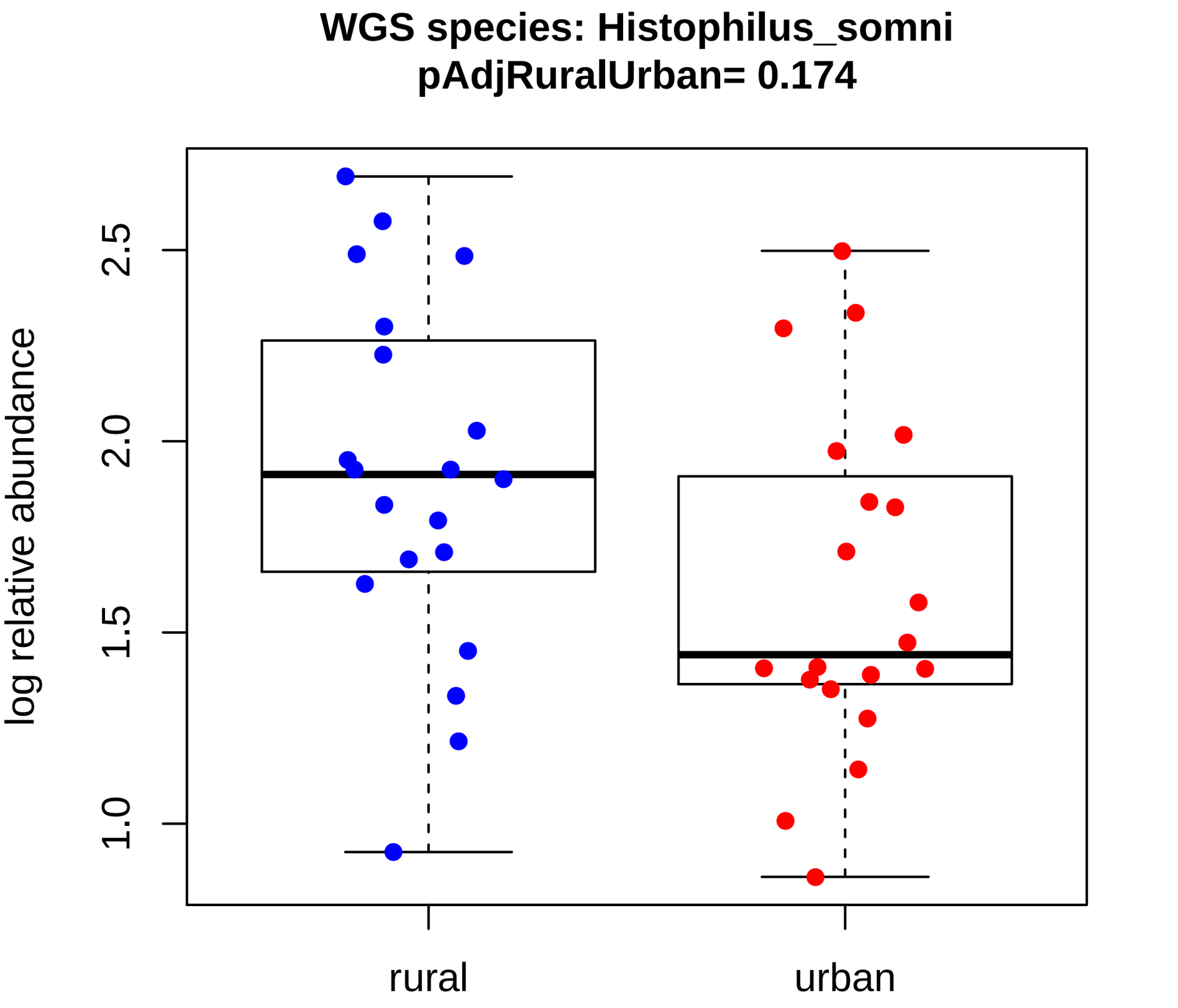

WGS species: Rhodobacter_capsulatus
pAdjRuralUrban= 0.167
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

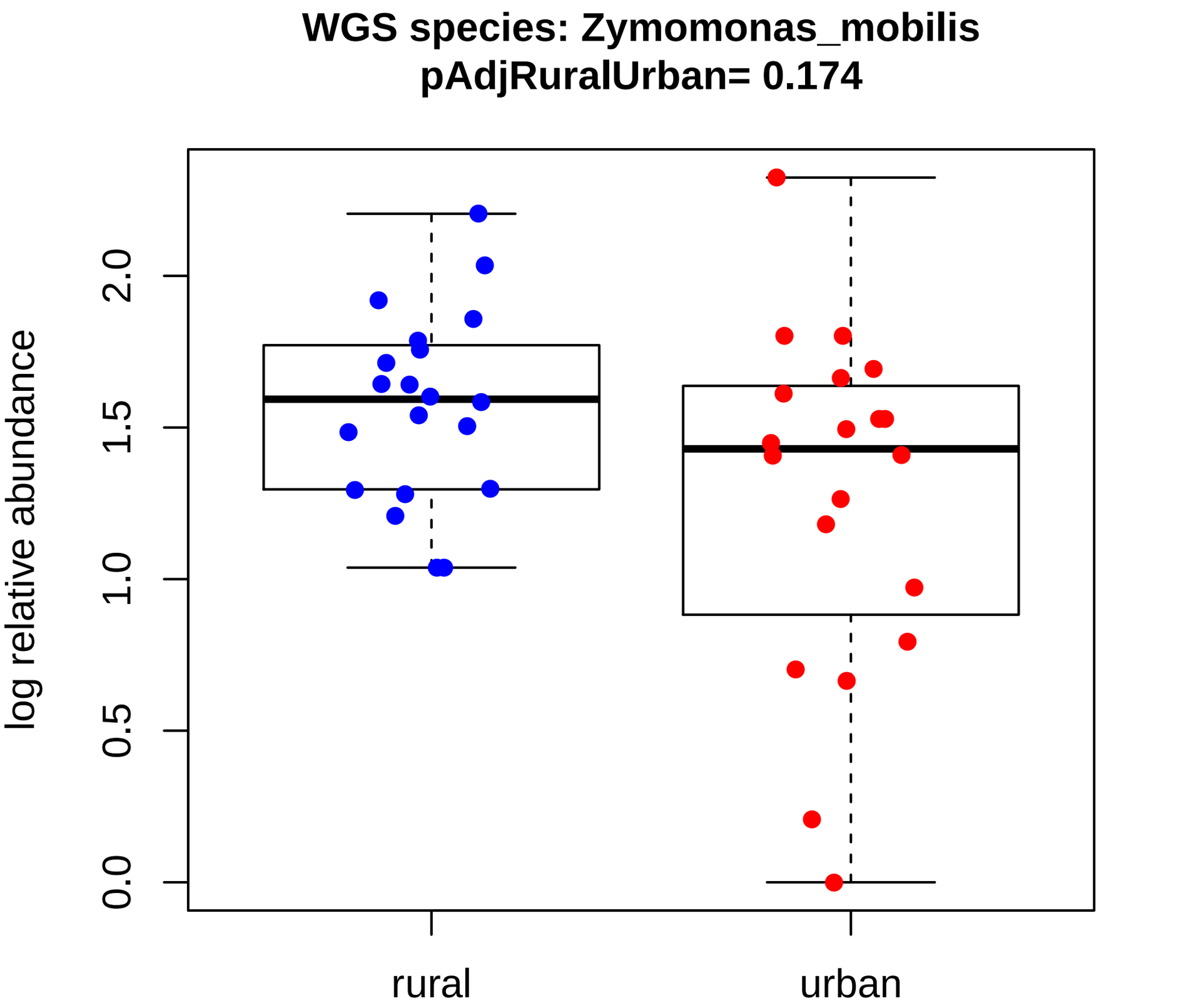

WGS species: Bacillus_infantis
pAdjRuralUrban= 0.17
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

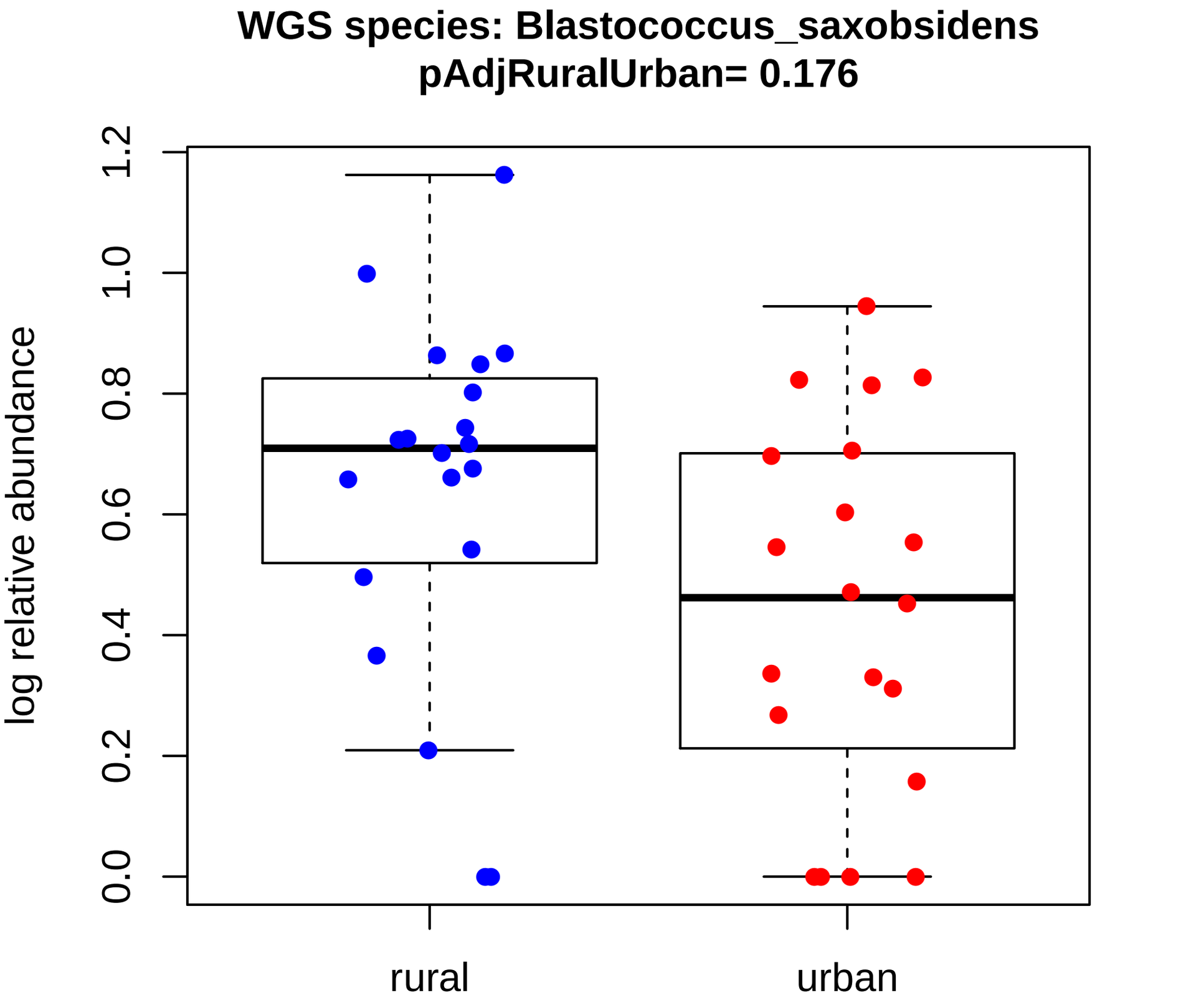

WGS species: Jonesia_denitrificans
pAdjRuralUrban= 0.171
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

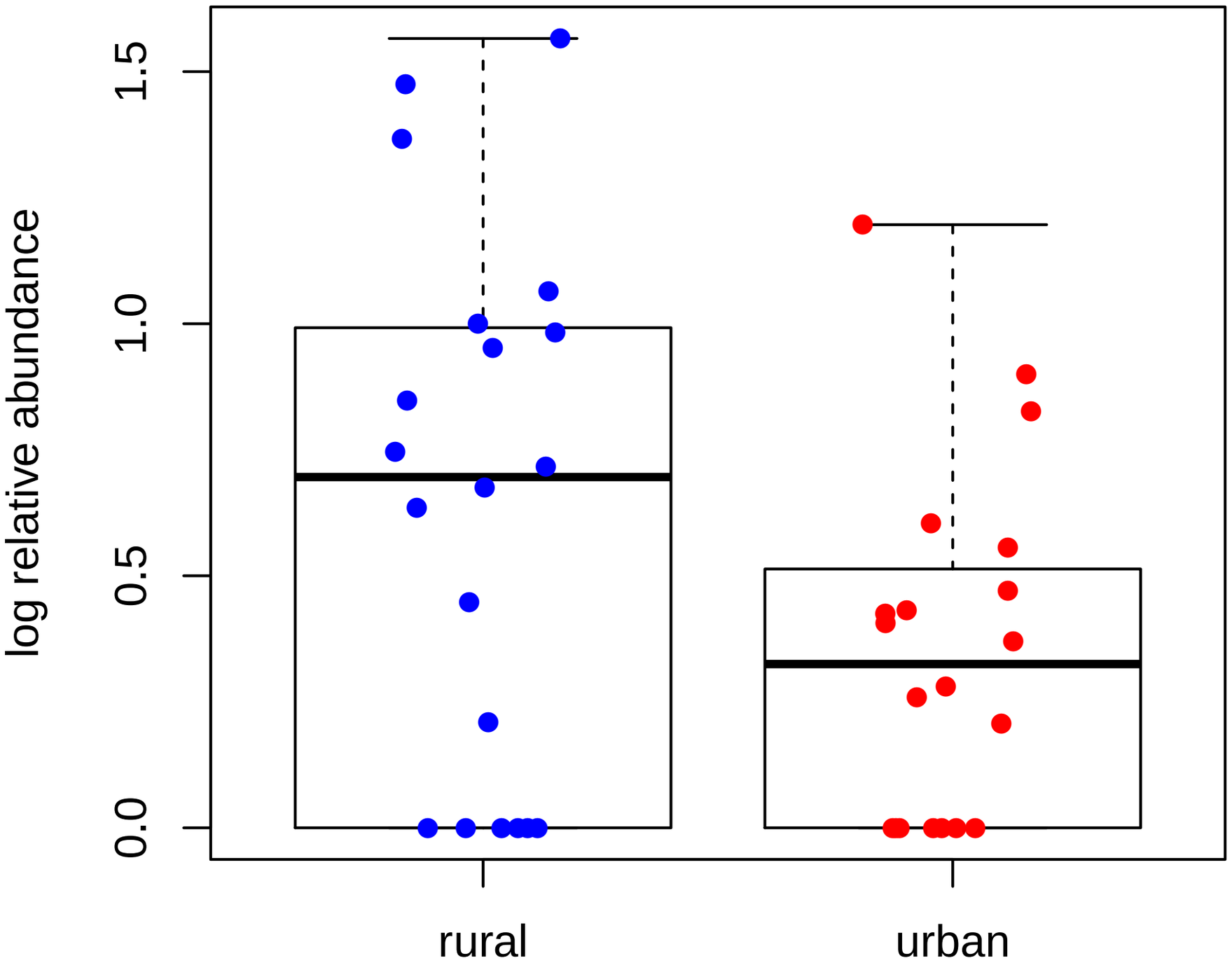

WGS species: Arthrospira_platensis
pAdjRuralUrban= 0.173
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

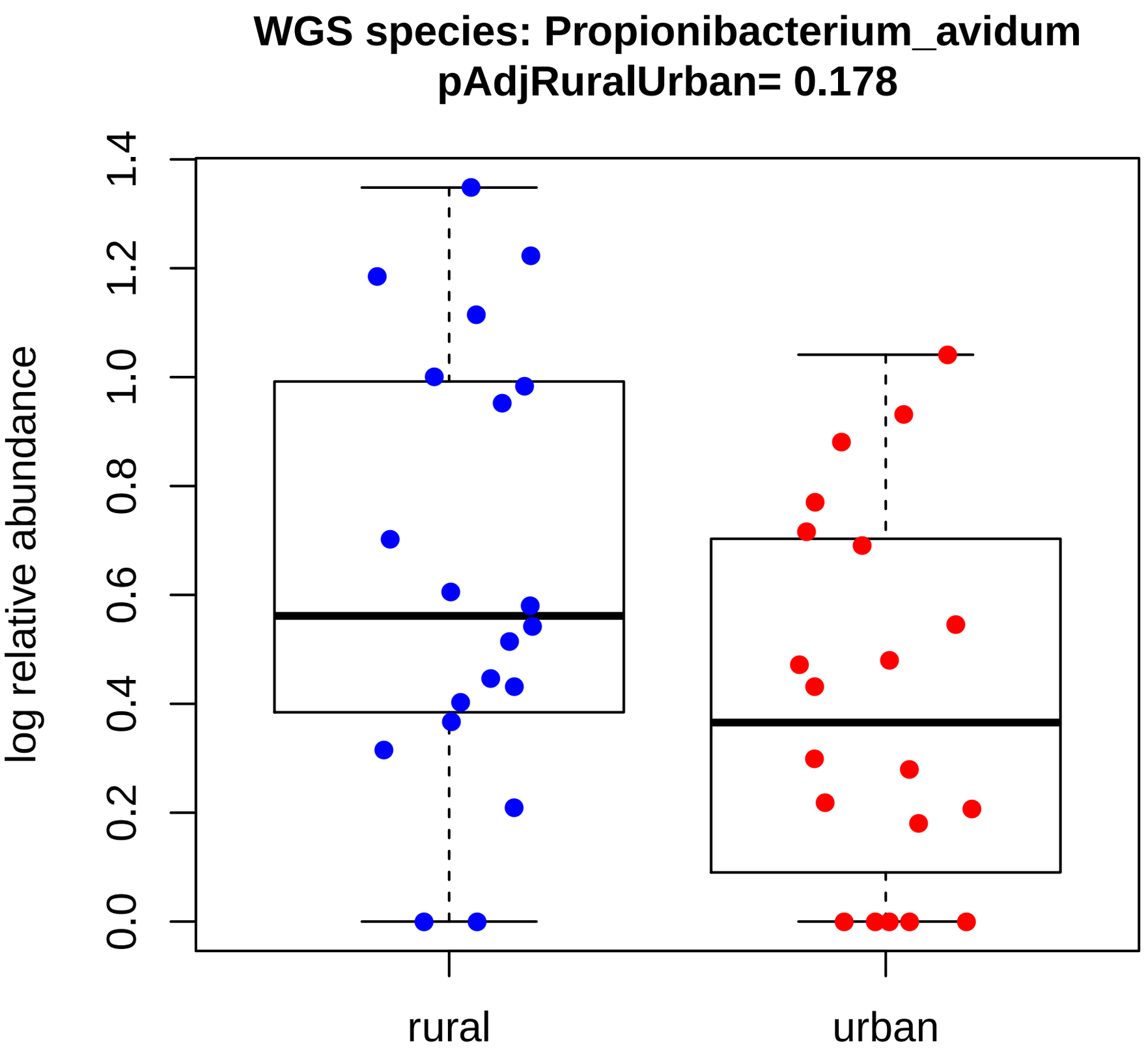

WGS species: Planctomyces_brasiliensis
pAdjRuralUrban= 0.173
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

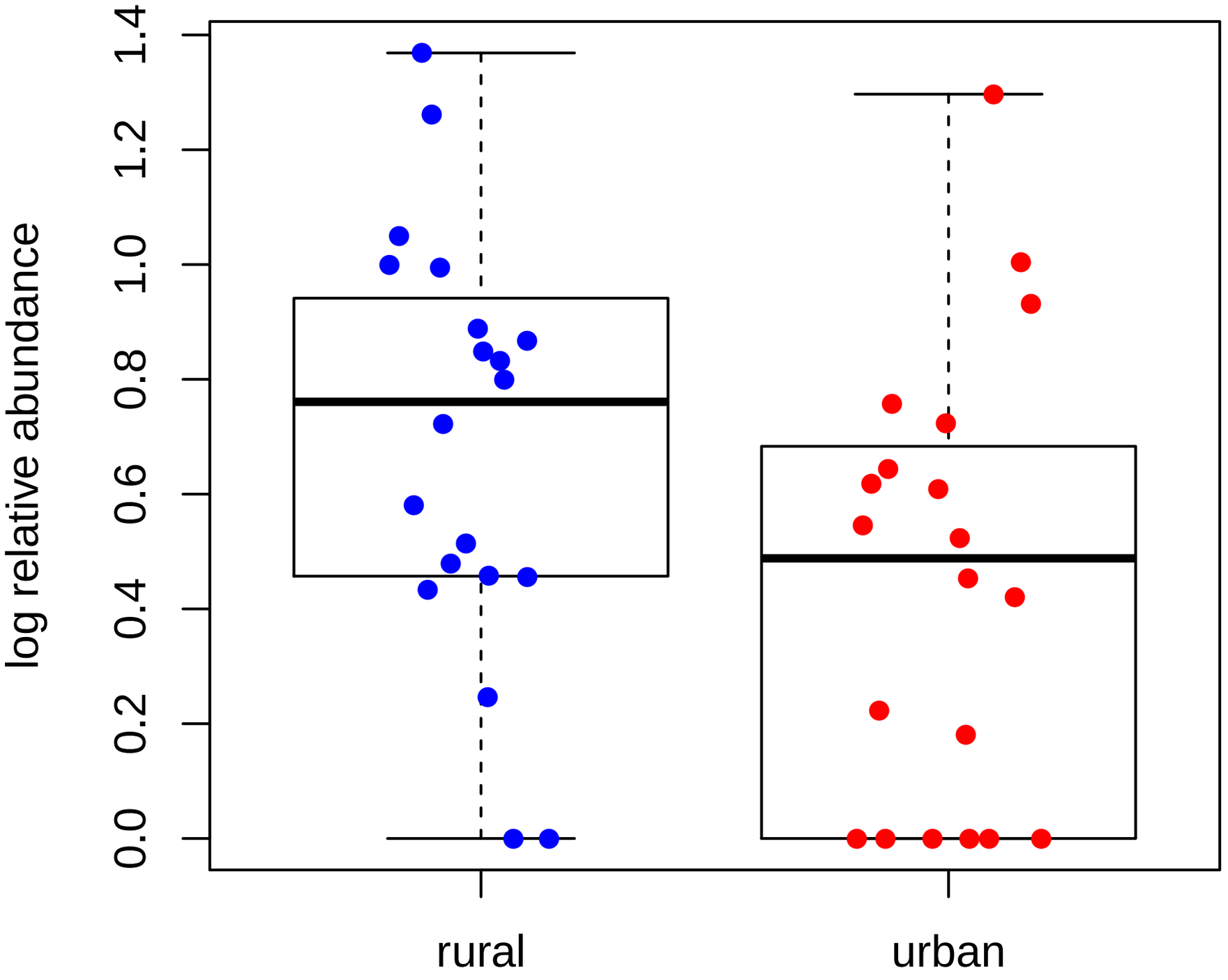

WGS species: Histophilus_somni
pAdjRuralUrban= 0.174
log relative abundance
1.0
1.5
2.0
2.5
rural
urban

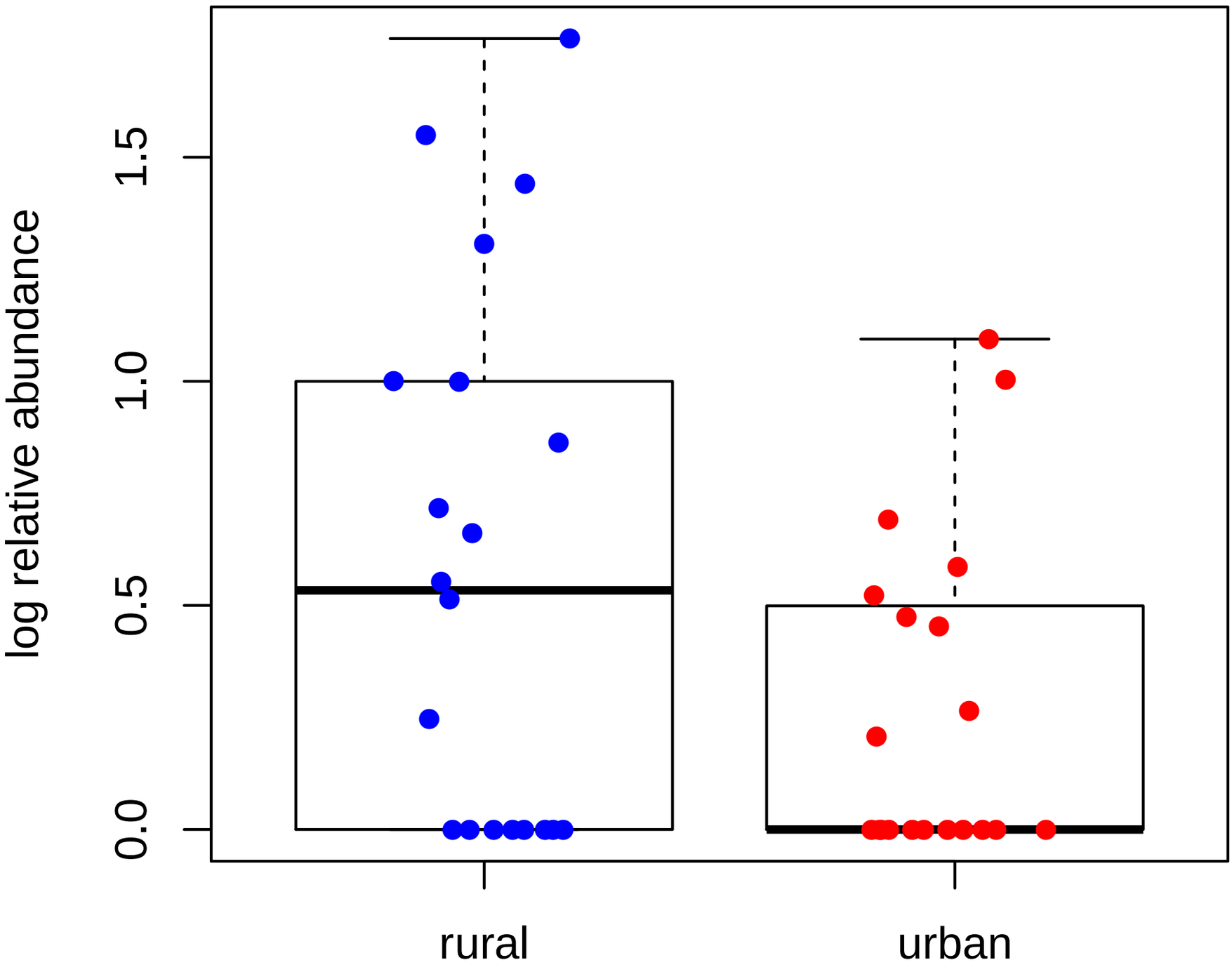

WGS species: Zymomonas_mobilis
pAdjRuralUrban= 0.174
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

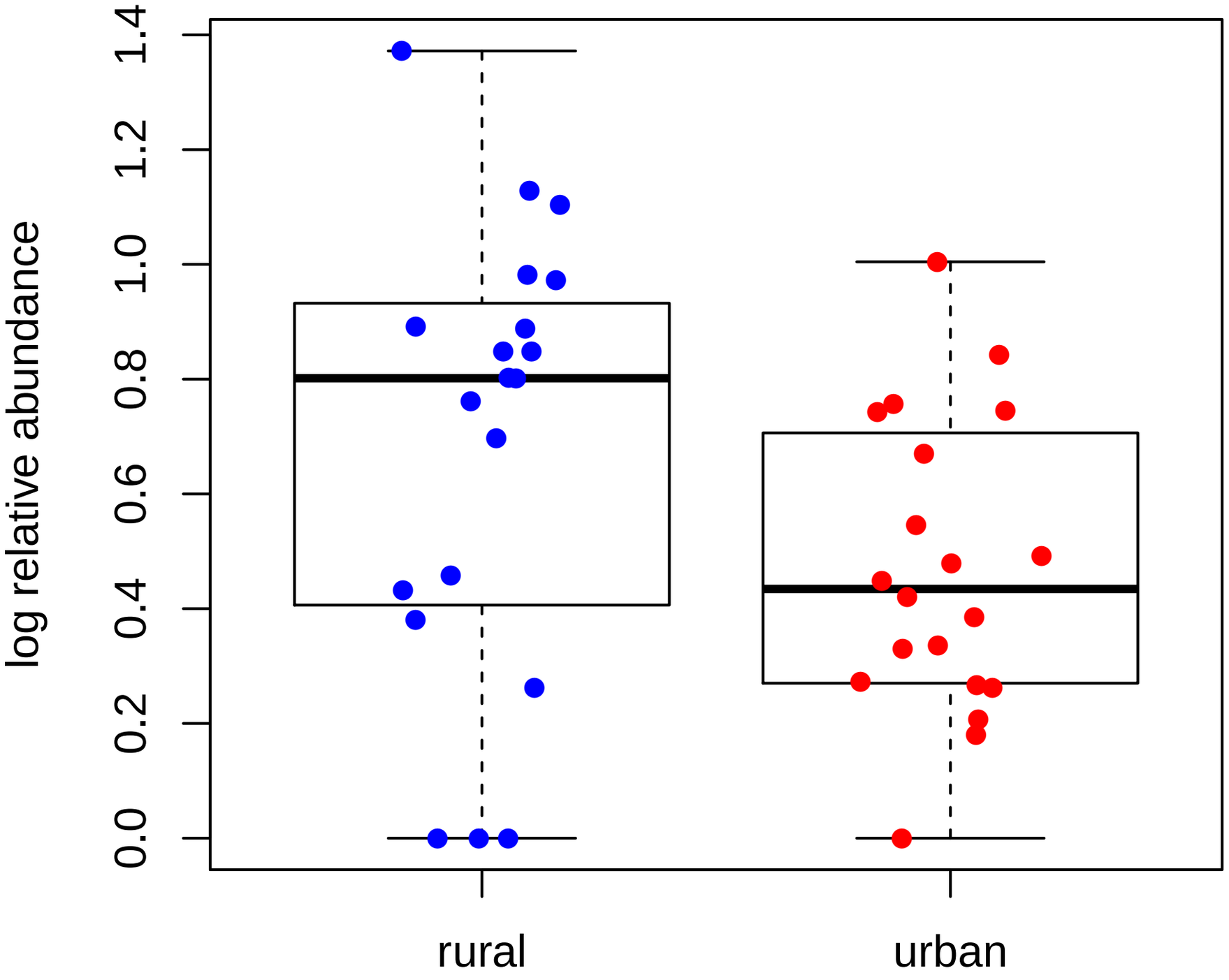

WGS species: Blastococcus_saxobsidens
pAdjRuralUrban= 0.176
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

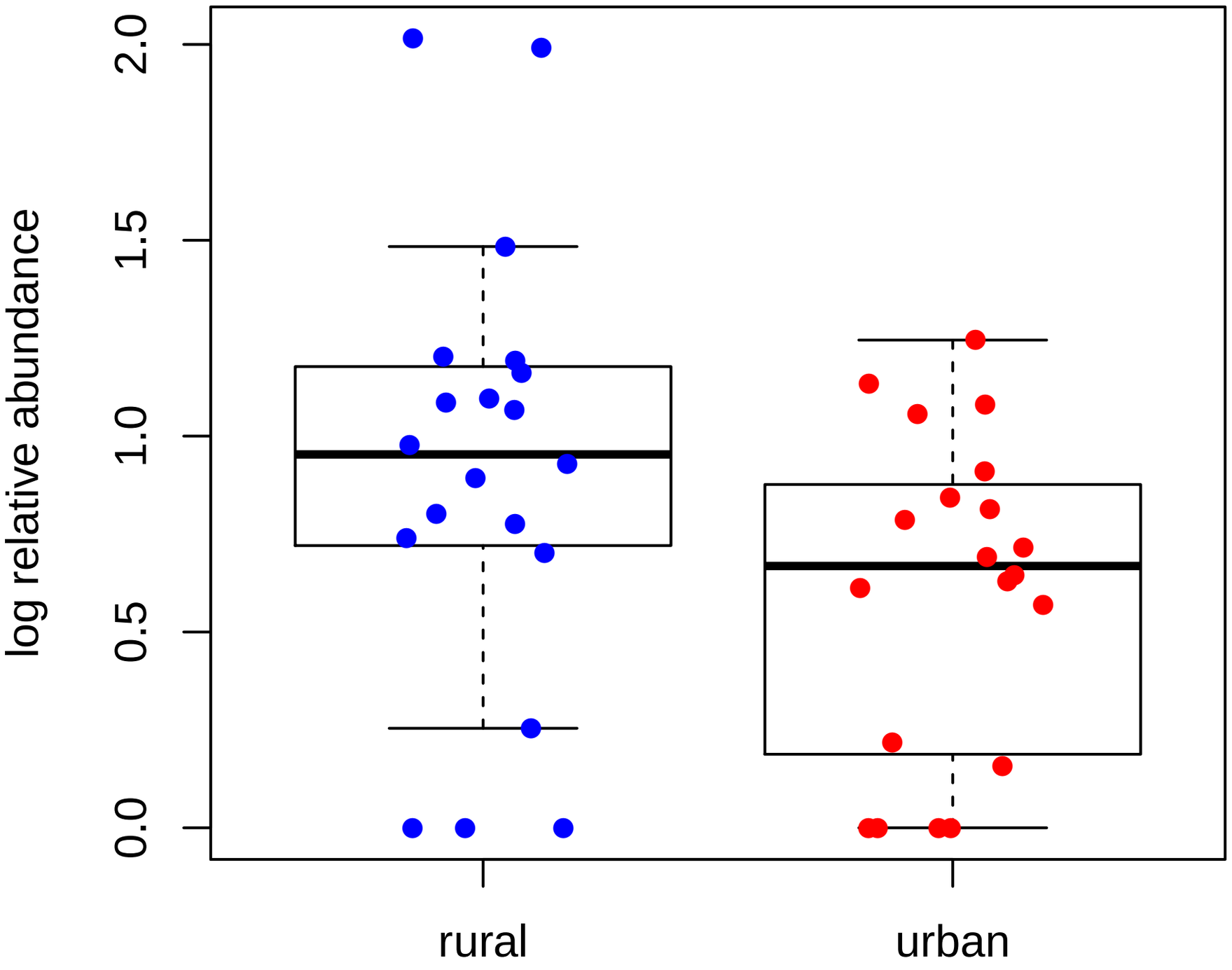

WGS species: Lacinutrix_sp._5H.3.7.4
pAdjRuralUrban= 0.177
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

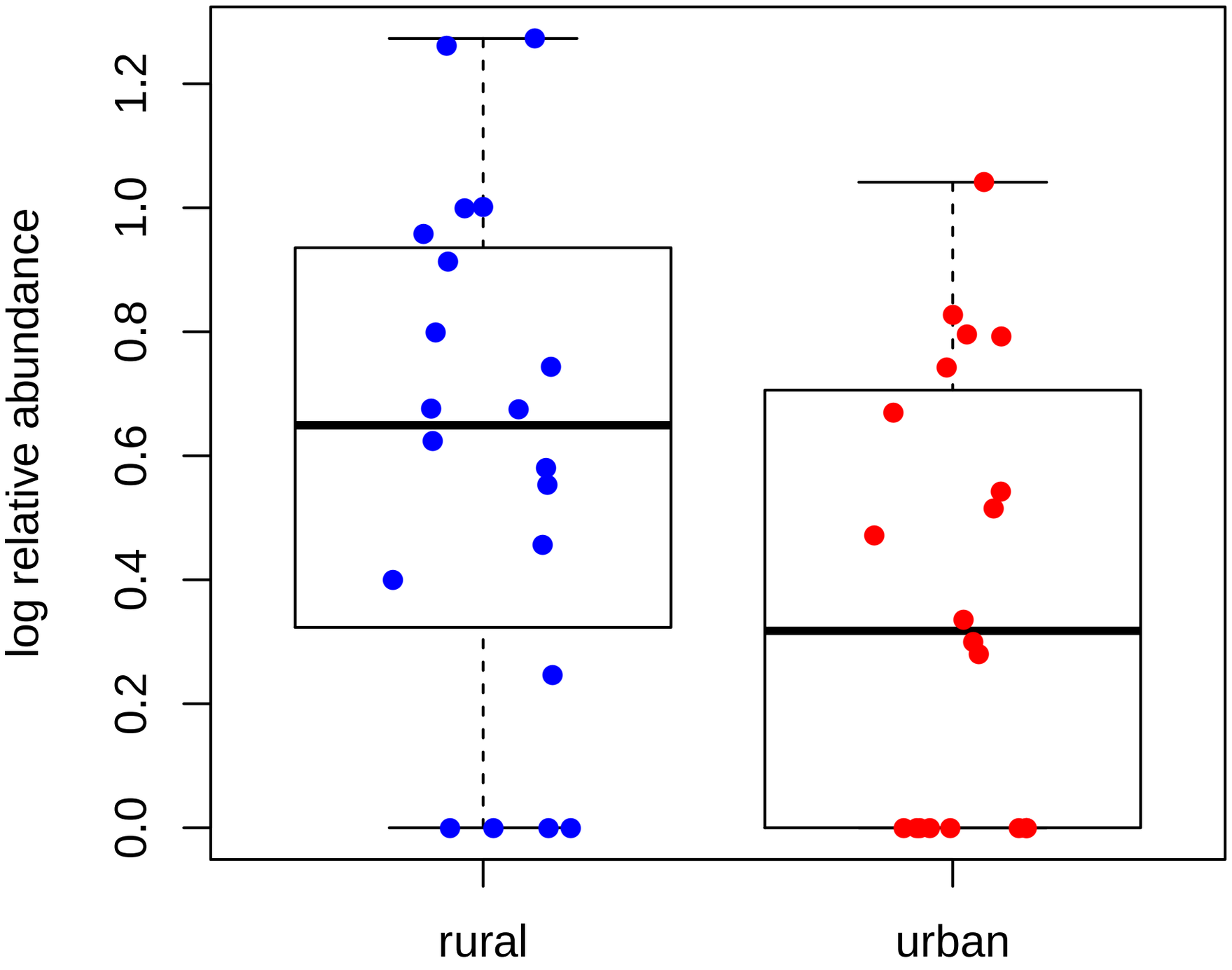

WGS species: Propionibacterium_avidum
pAdjRuralUrban= 0.178
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

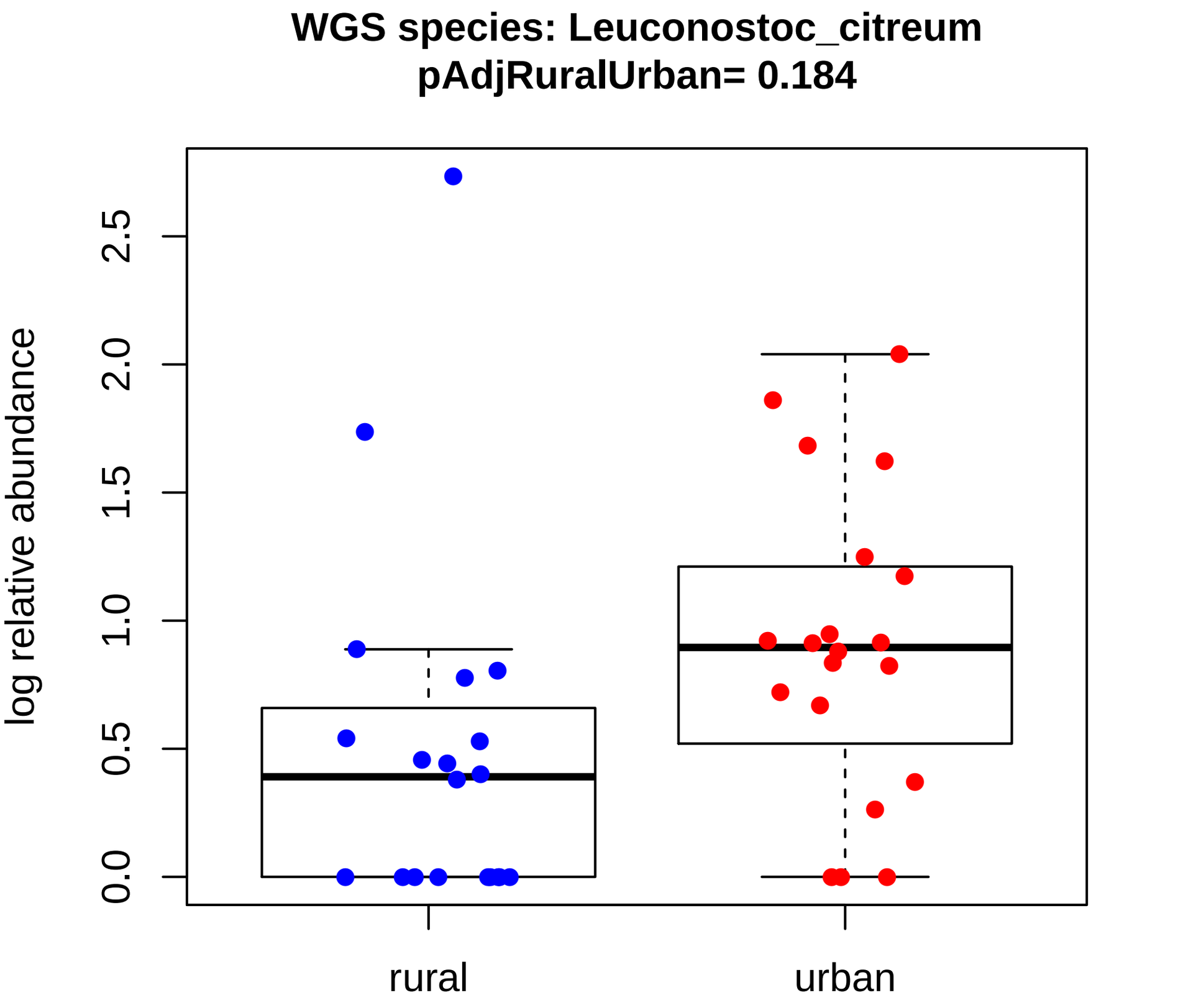

WGS species: Halanaerobium_praevalens
pAdjRuralUrban= 0.18
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

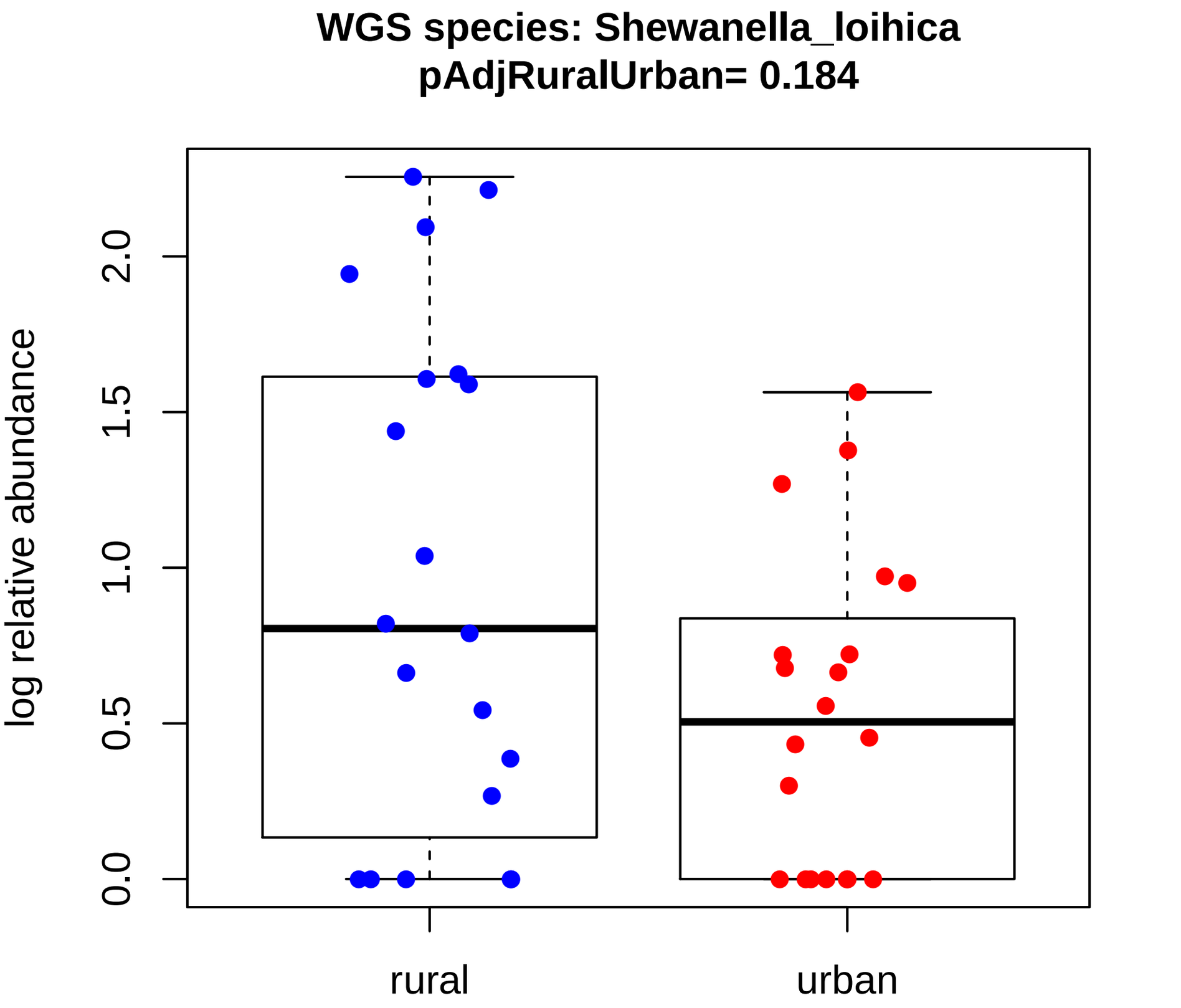

WGS species: Thermobifida_fusca
pAdjRuralUrban= 0.181
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

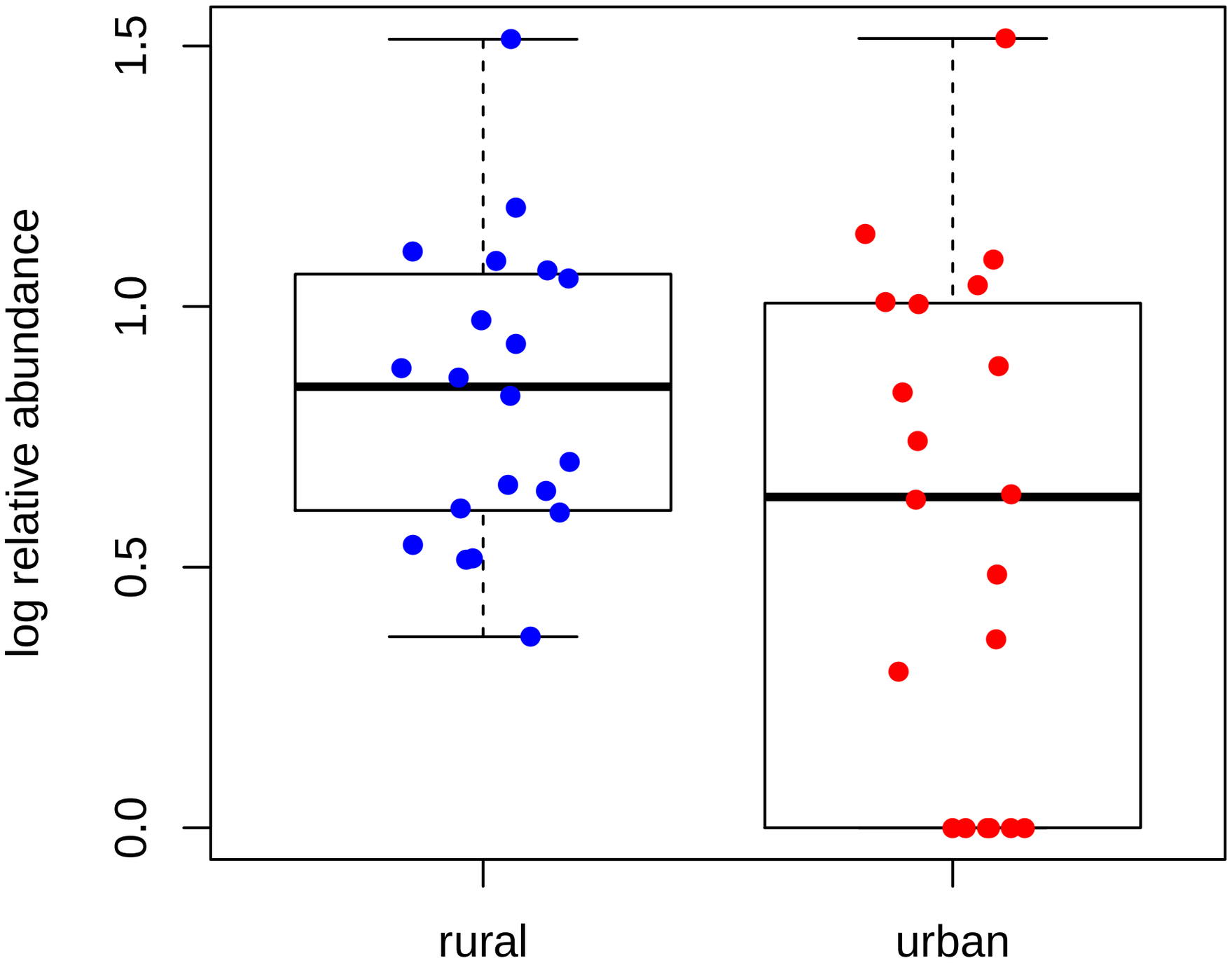

WGS species: Thermus_scotoductus
pAdjRuralUrban= 0.183
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

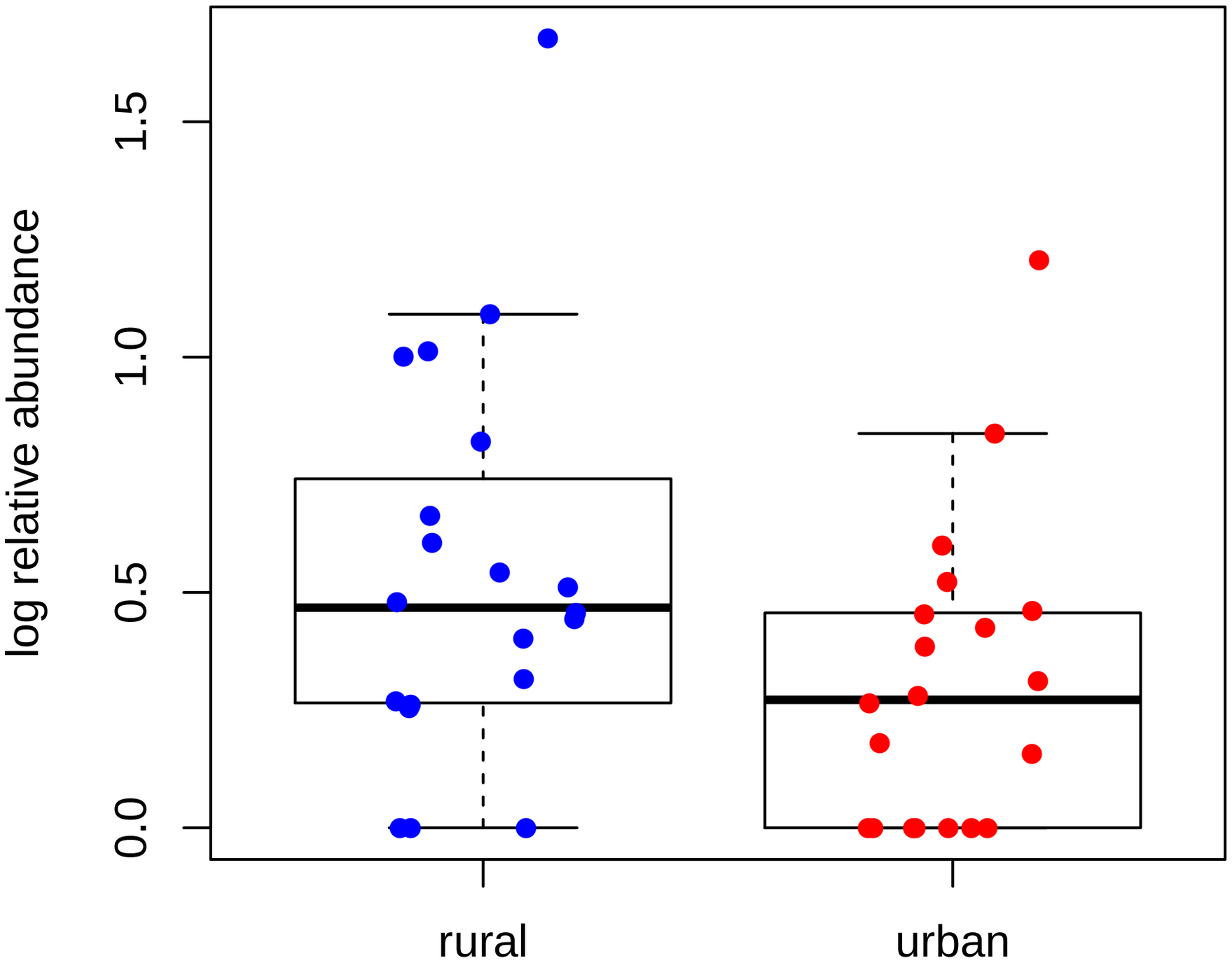

WGS species: Laribacter_hongkongensis
pAdjRuralUrban= 0.183
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

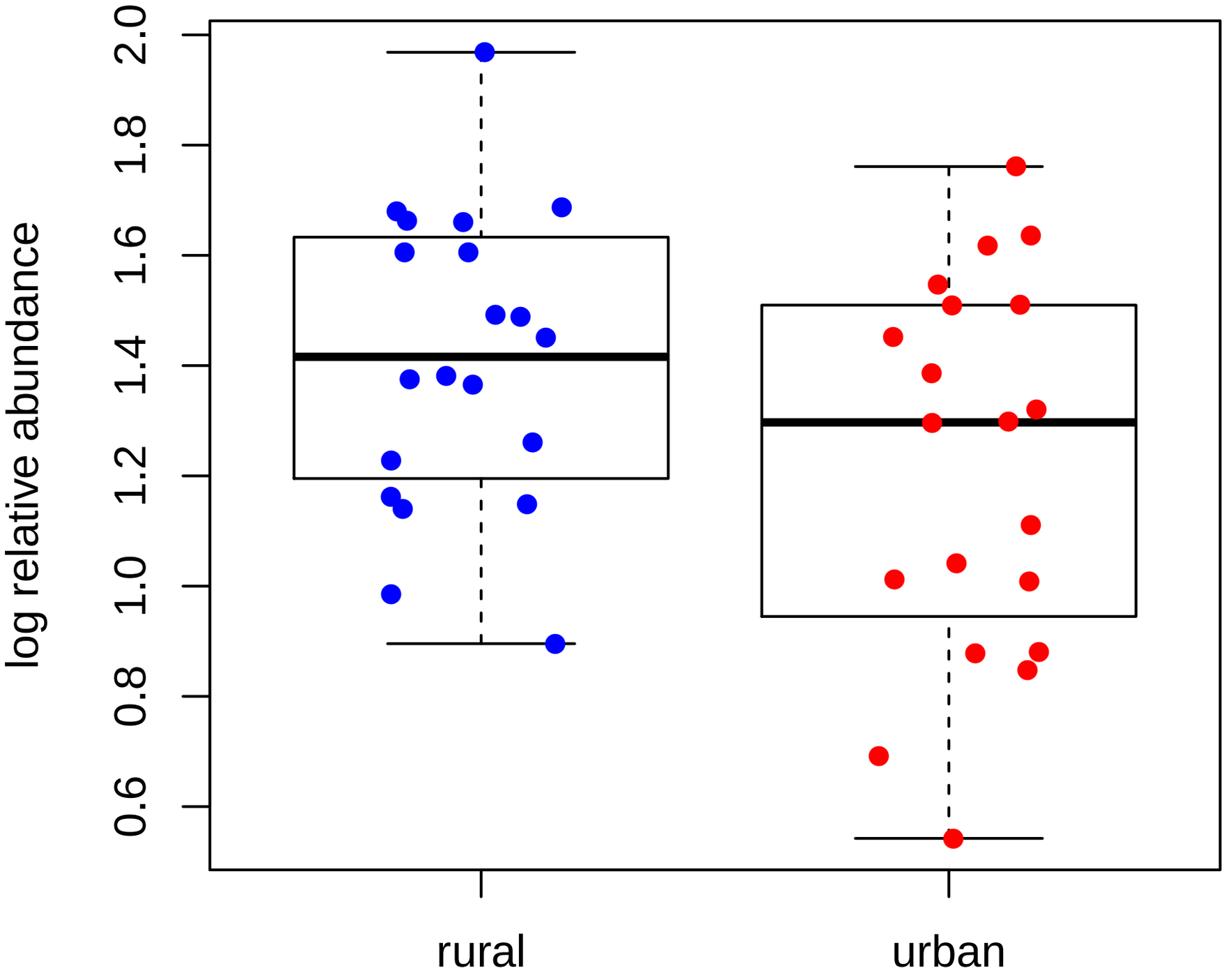

WGS species: Gemmatimonas_aurantiaca
pAdjRuralUrban= 0.184
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

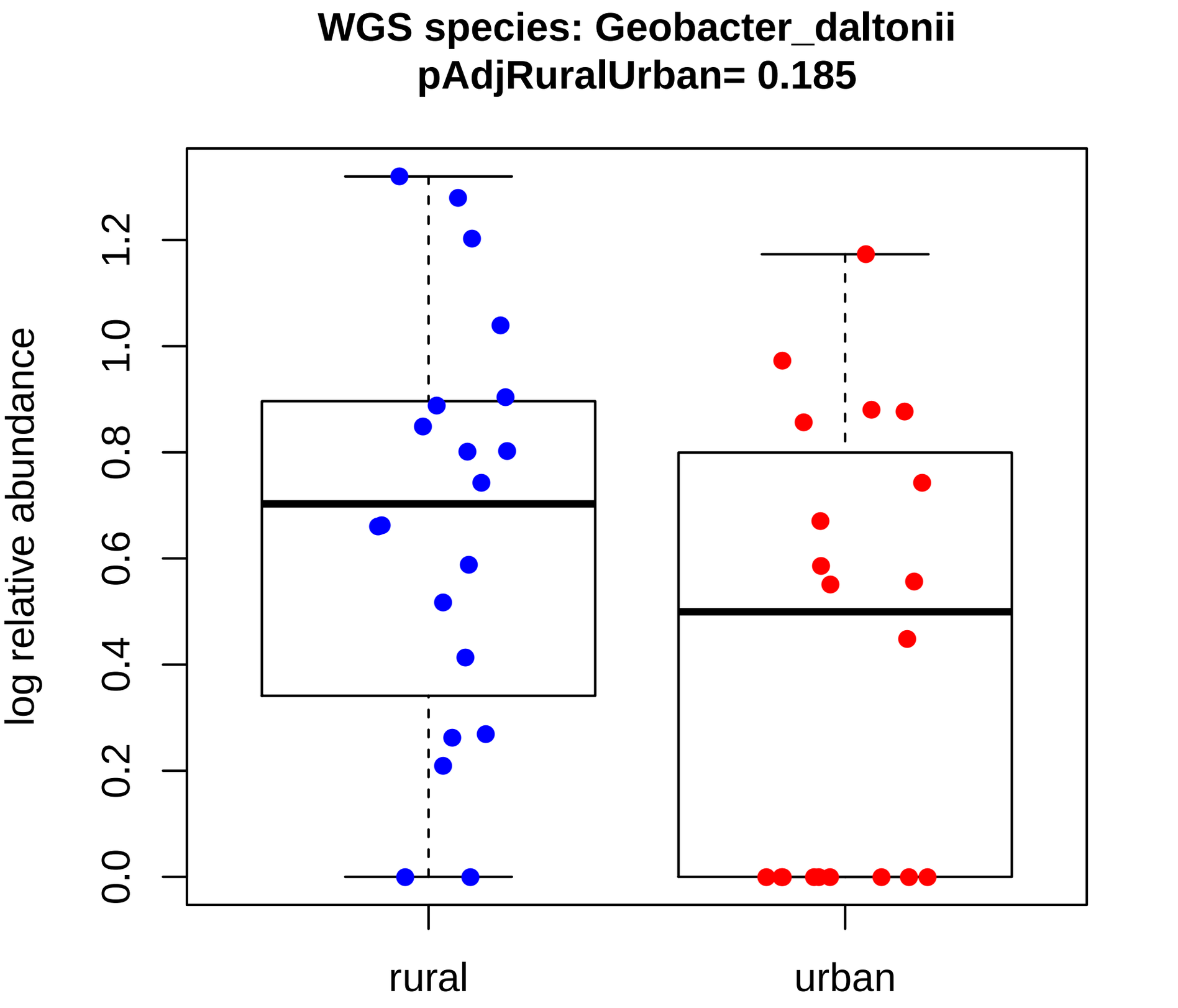

WGS species: Leuconostoc_citreum
pAdjRuralUrban= 0.184
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

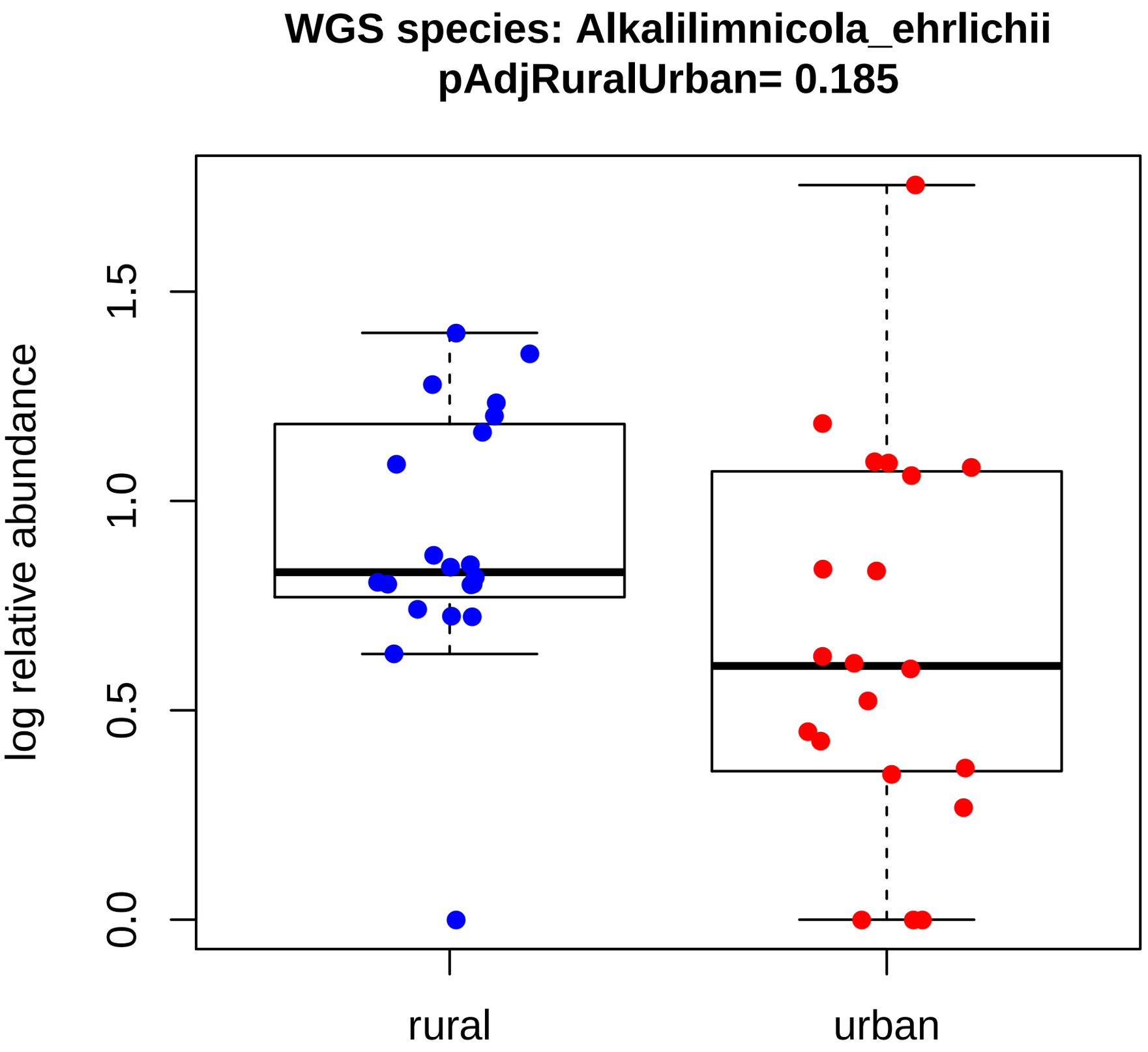

WGS species: Shewanella_loihica
pAdjRuralUrban= 0.184
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

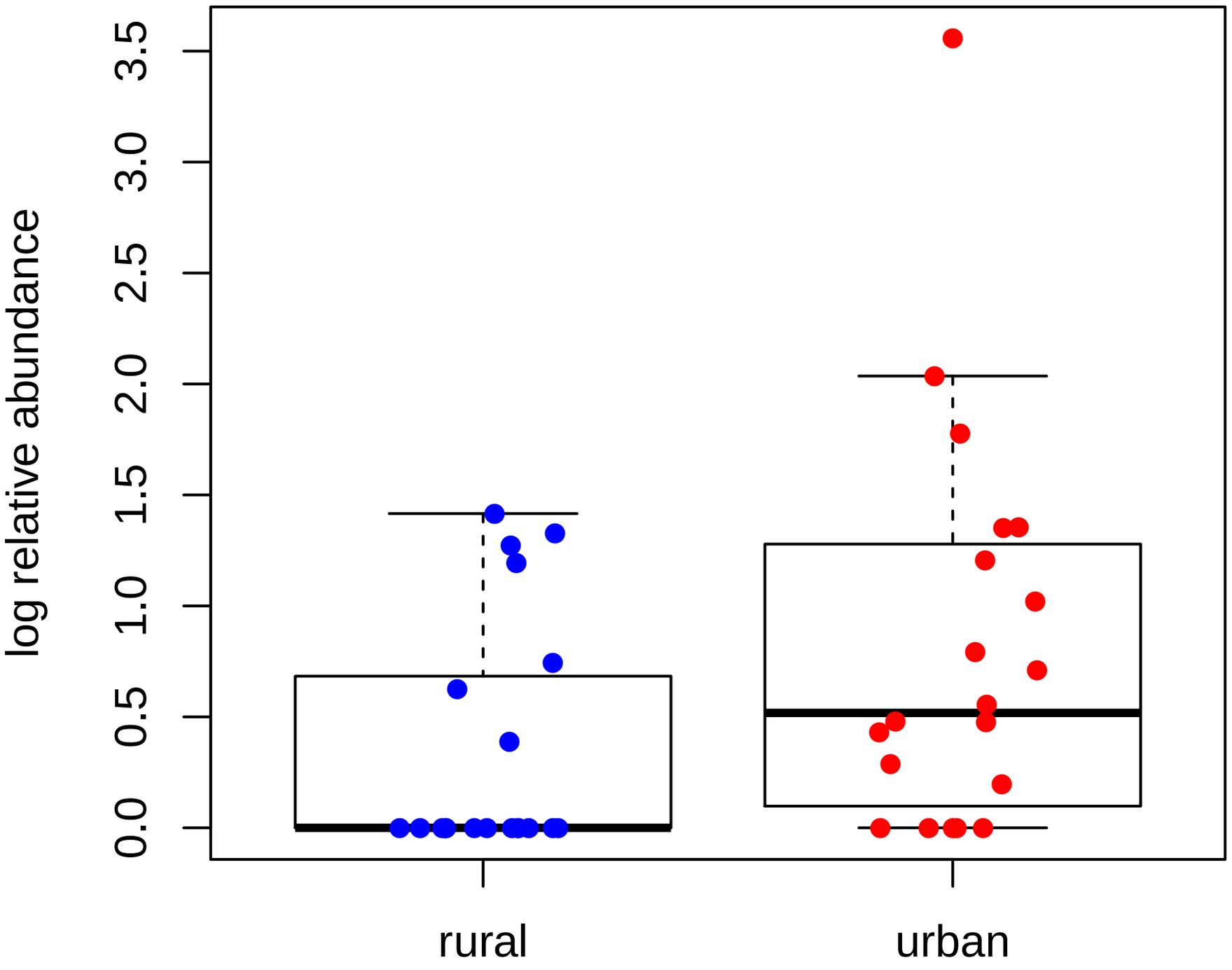

WGS species: Polymorphum_gilvum
pAdjRuralUrban= 0.185
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

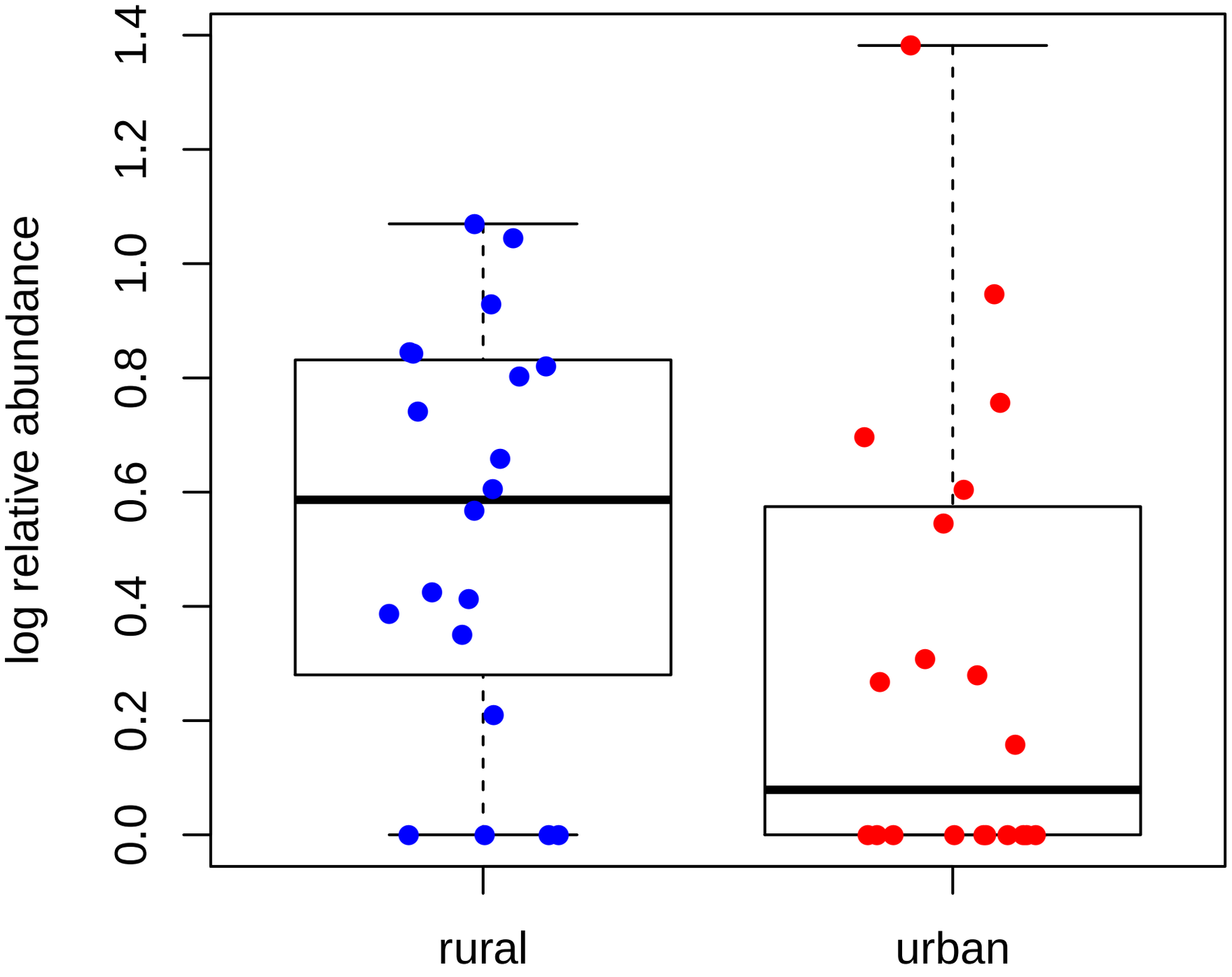

WGS species: Nocardiopsis_dassonvillei
pAdjRuralUrban= 0.185
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

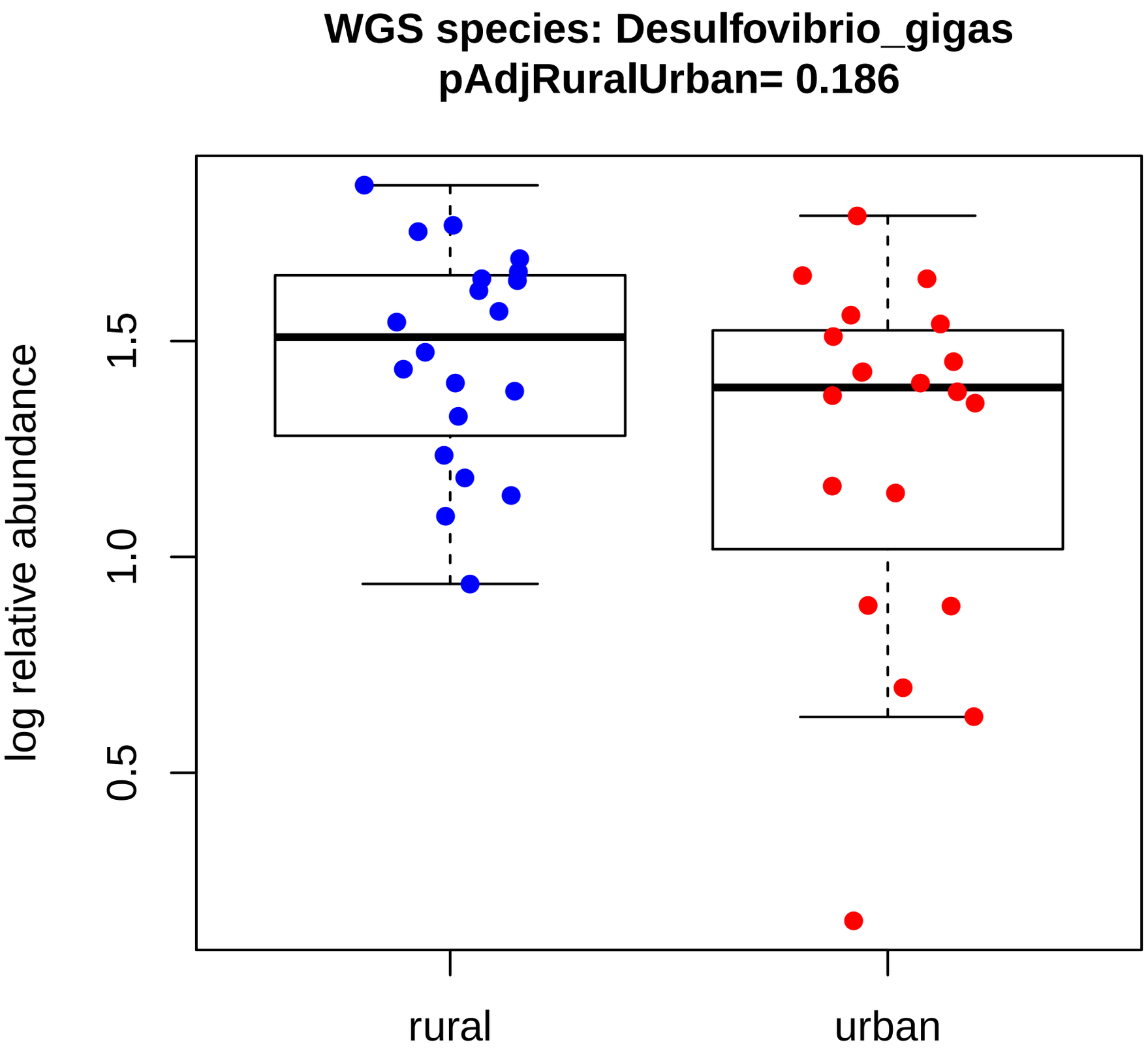

WGS species: Paenibacillus_terrae
pAdjRuralUrban= 0.185
log relative abundance
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
rural
urban

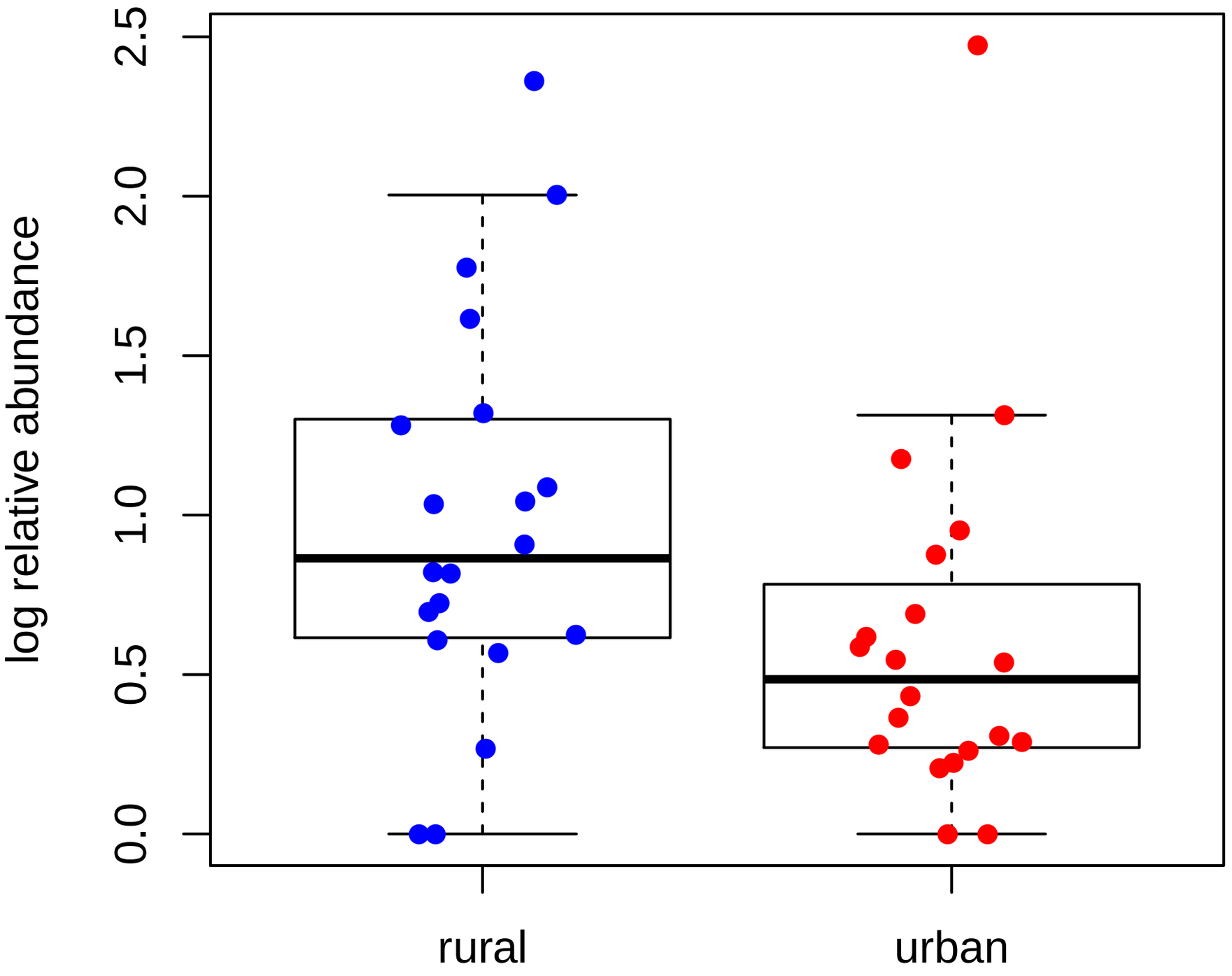

WGS species: Geobacter_daltonii
pAdjRuralUrban= 0.185
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

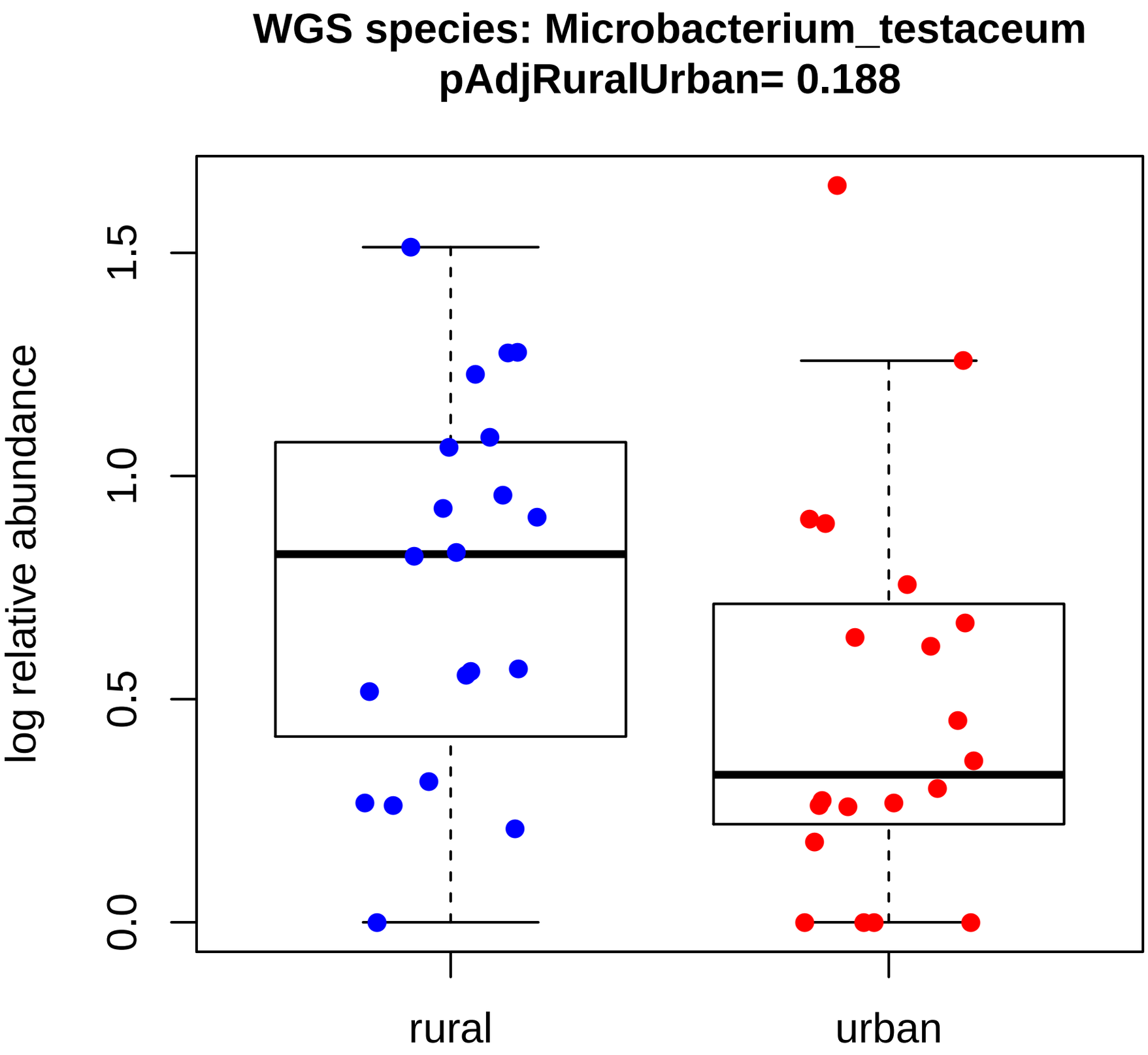

WGS species: Alkalilimnicola_ehrlichii
pAdjRuralUrban= 0.185
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

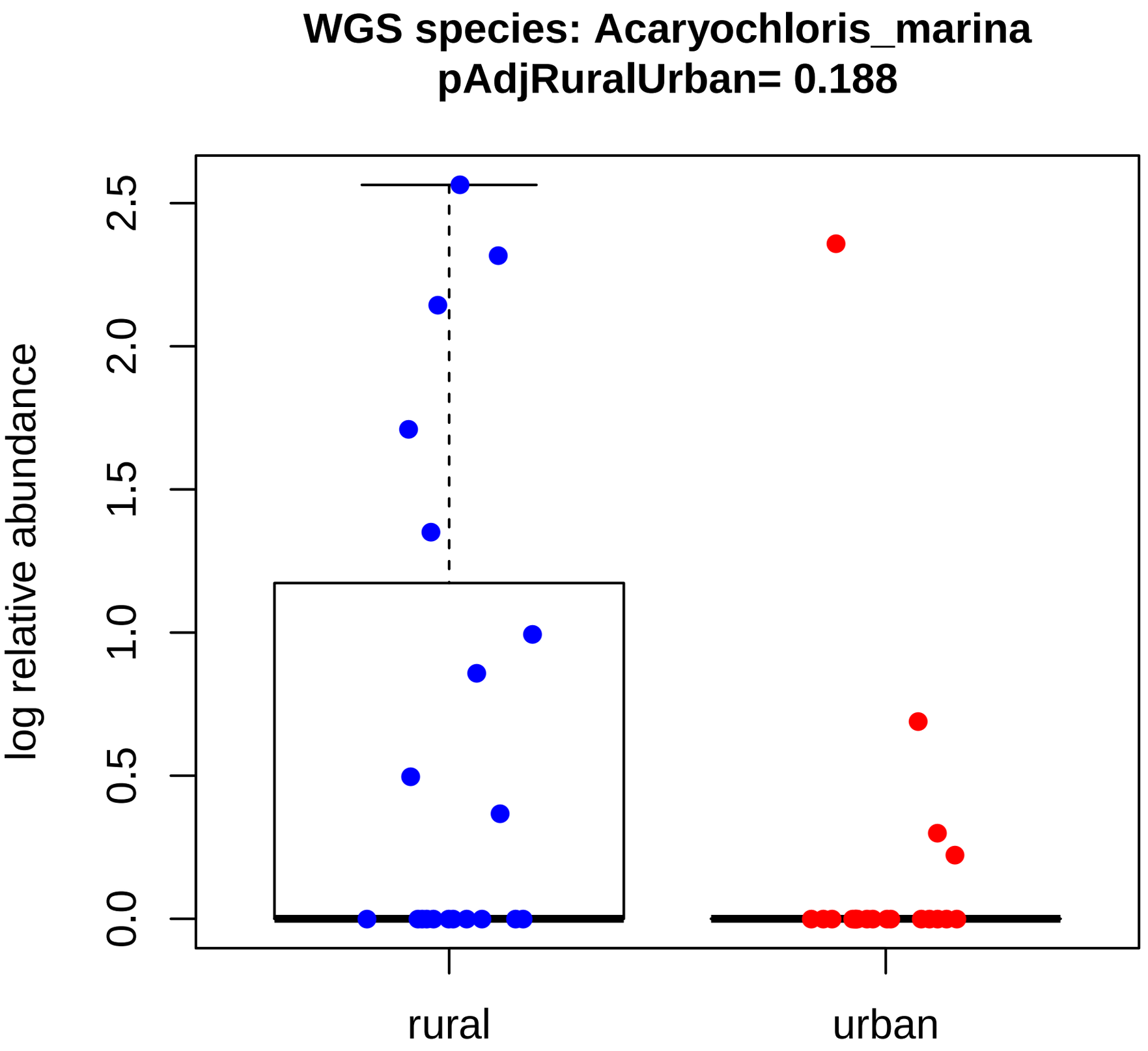

WGS species: Enterobacteria_phage_P1
pAdjRuralUrban= 0.185
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

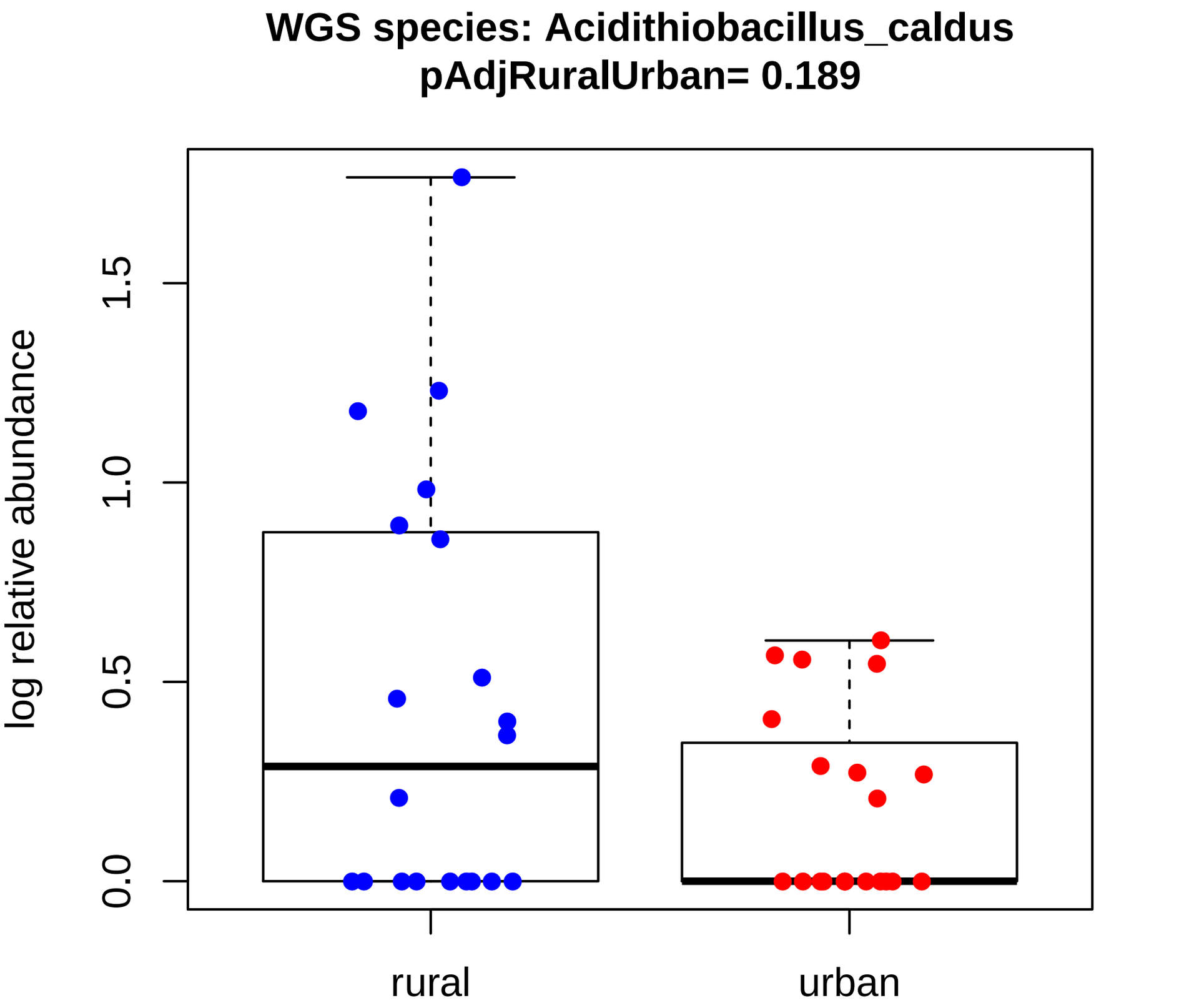

WGS species: Burkholderia_cenocepacia
pAdjRuralUrban= 0.186
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

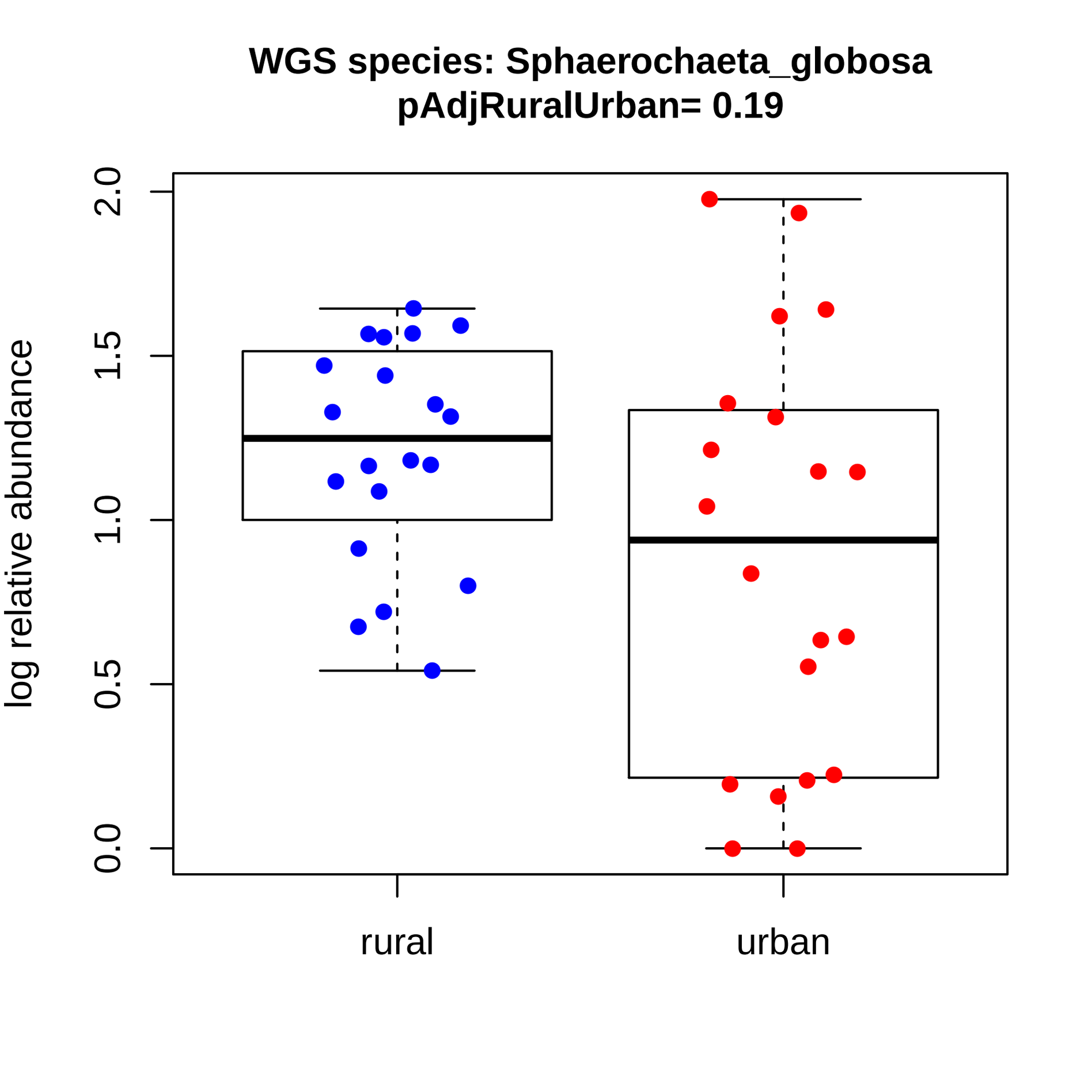

WGS species: Desulfovibrio_gigas
pAdjRuralUrban= 0.186
log relative abundance
0.5
1.0
1.5
rural
urban

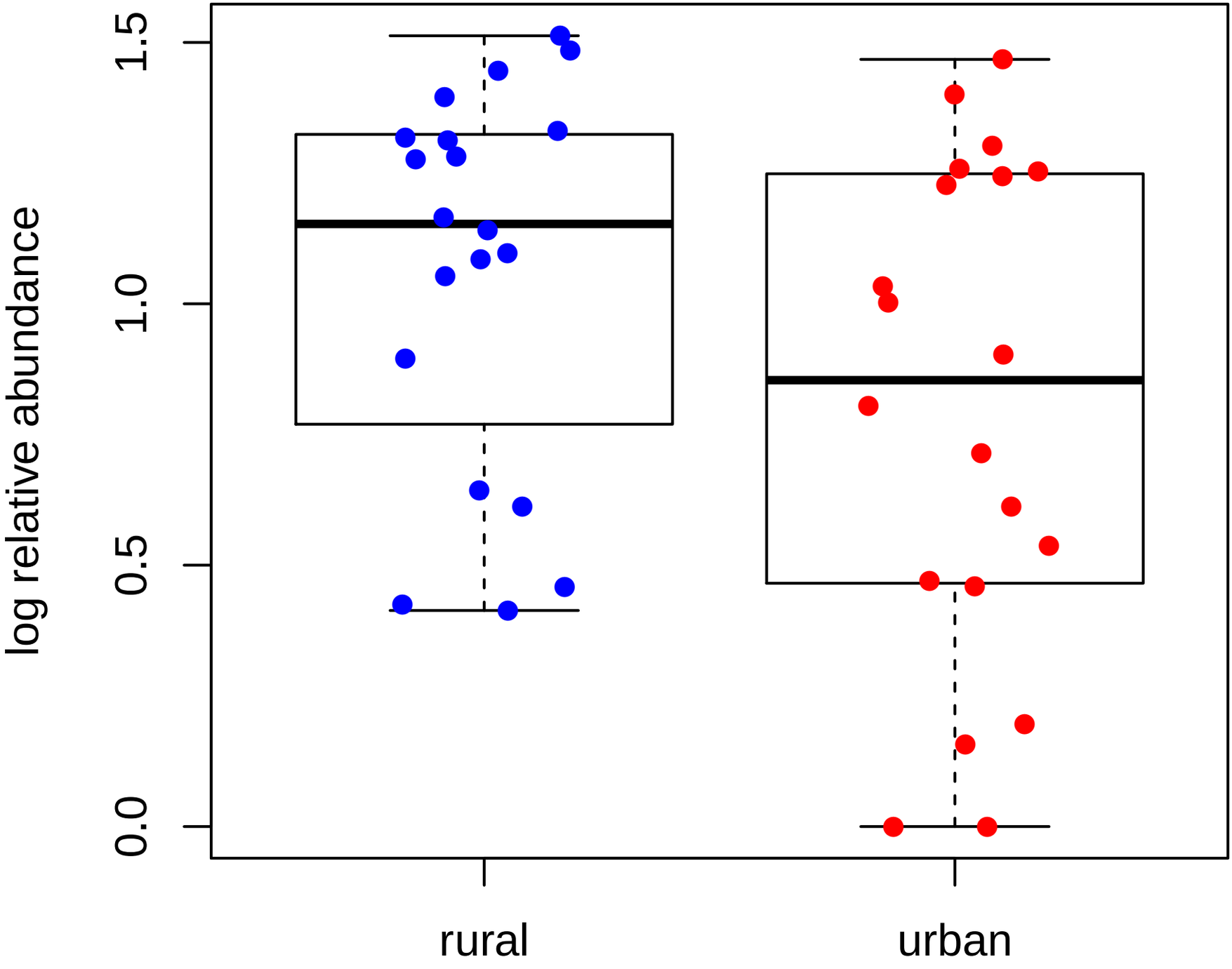

WGS species: Solitalea_canadensis
pAdjRuralUrban= 0.187
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

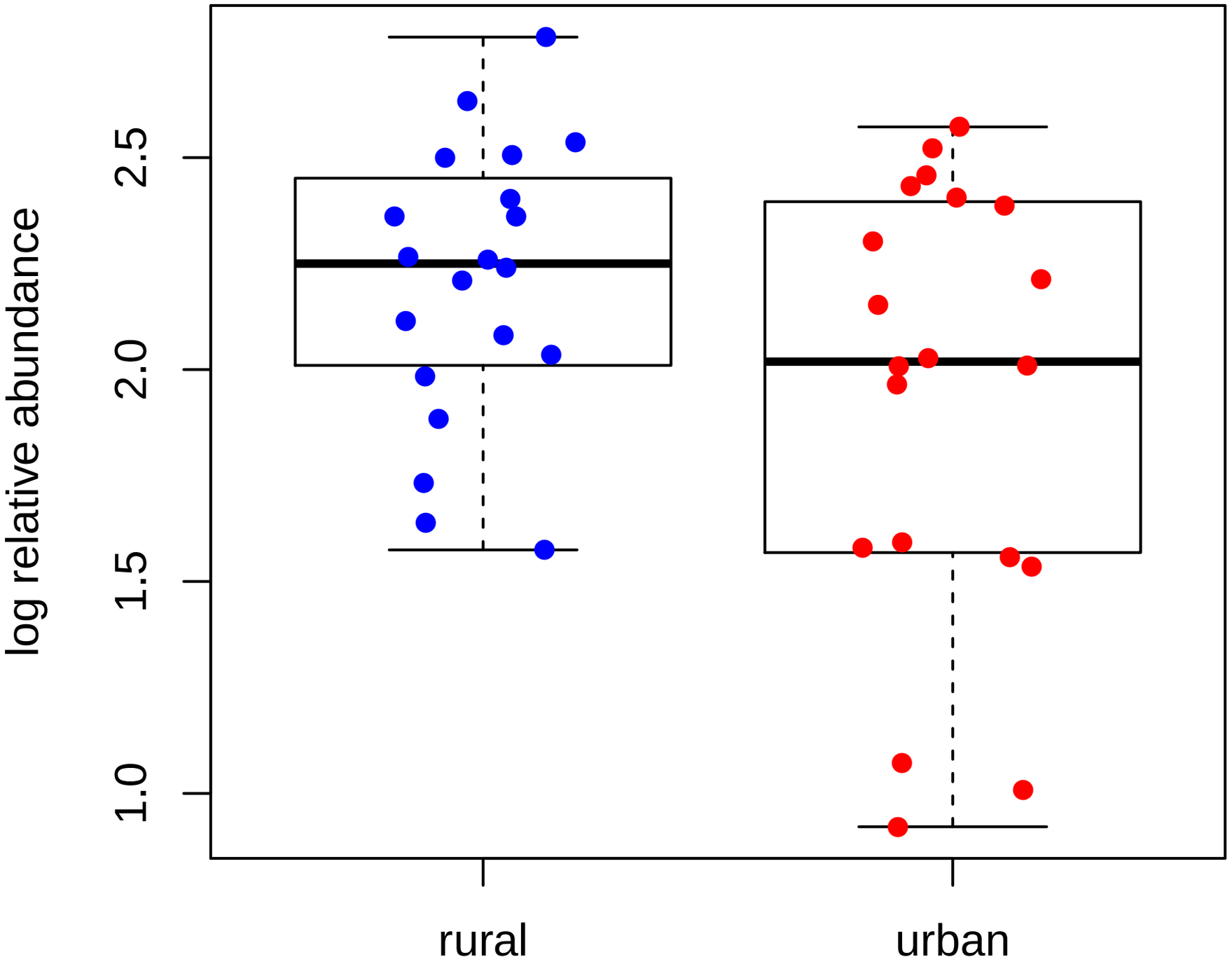

WGS species: Microbacterium_testaceum
pAdjRuralUrban= 0.188
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

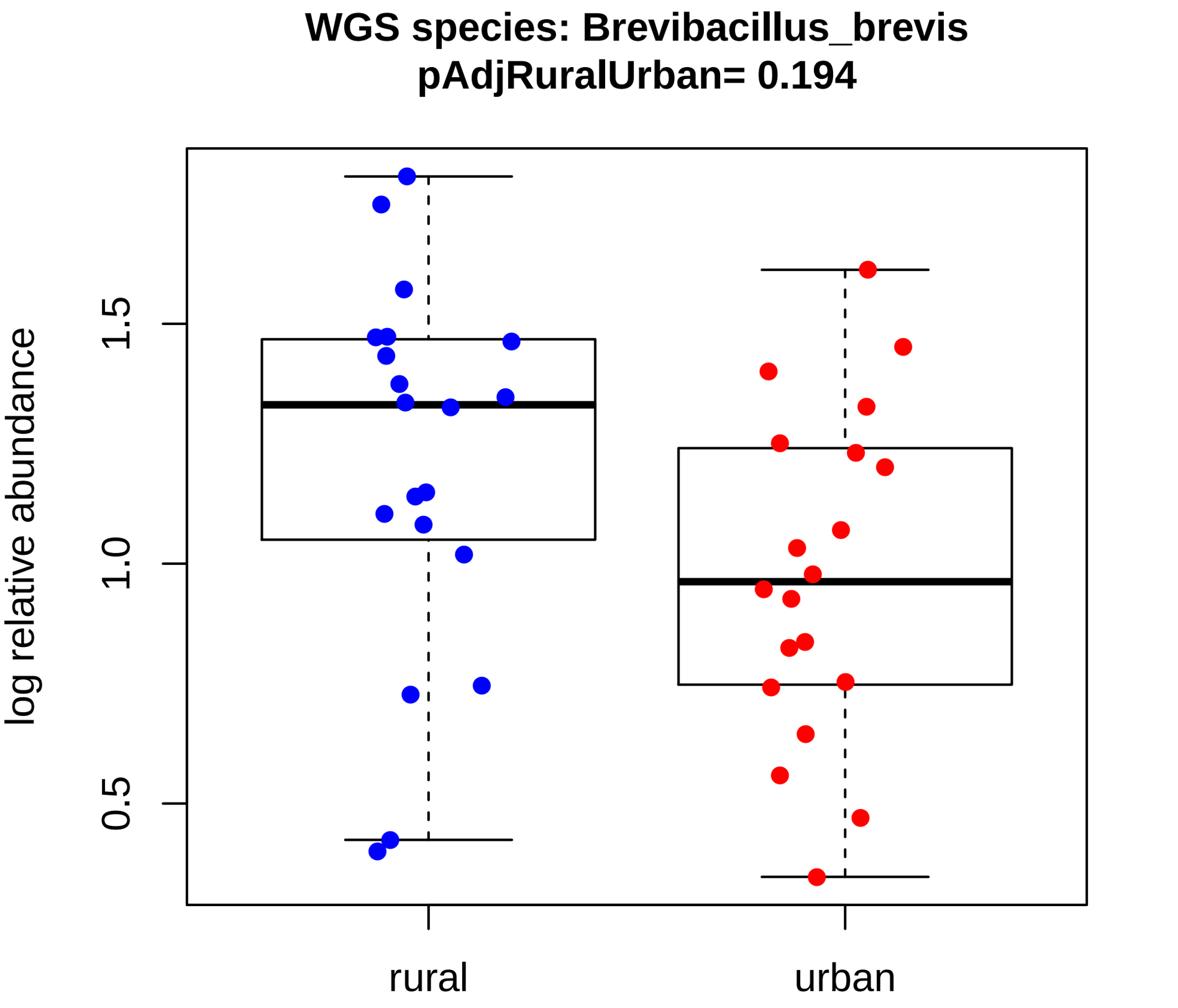

WGS species: Acaryochloris_marina
pAdjRuralUrban= 0.188
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

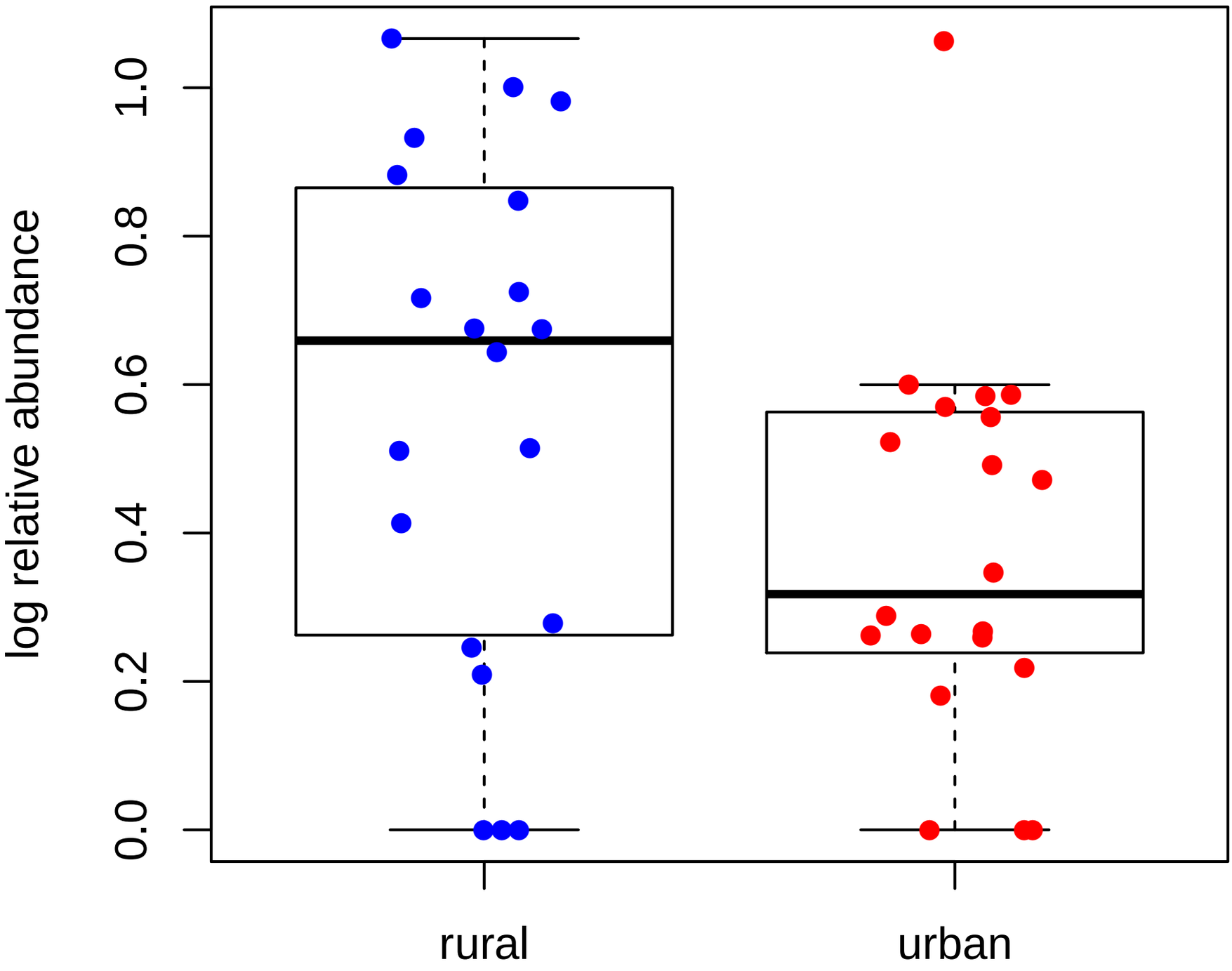

WGS species: Acidithiobacillus_caldus
pAdjRuralUrban= 0.189
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

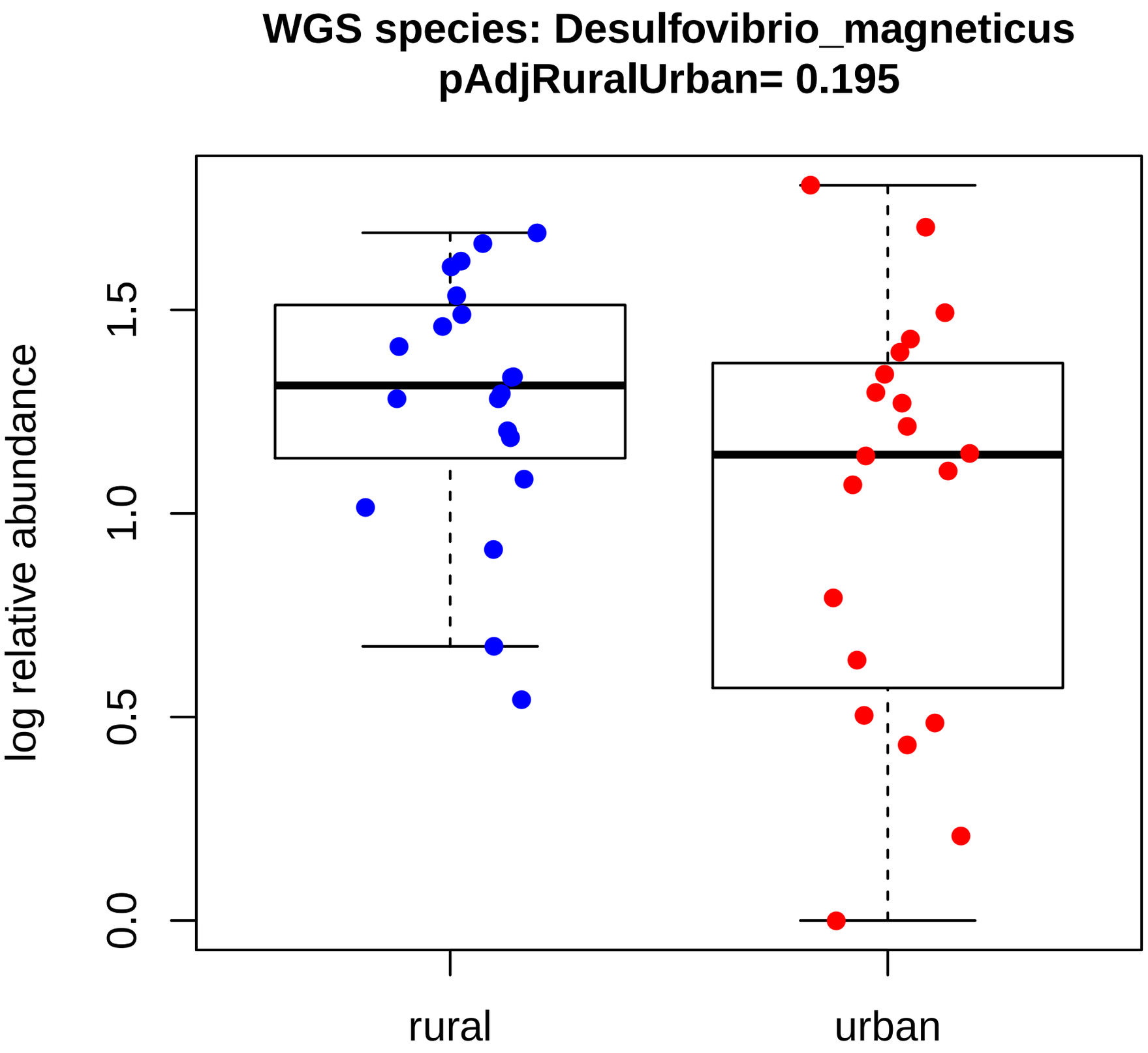

WGS species: Sphaerochaeta_globosa
pAdjRuralUrban= 0.19
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

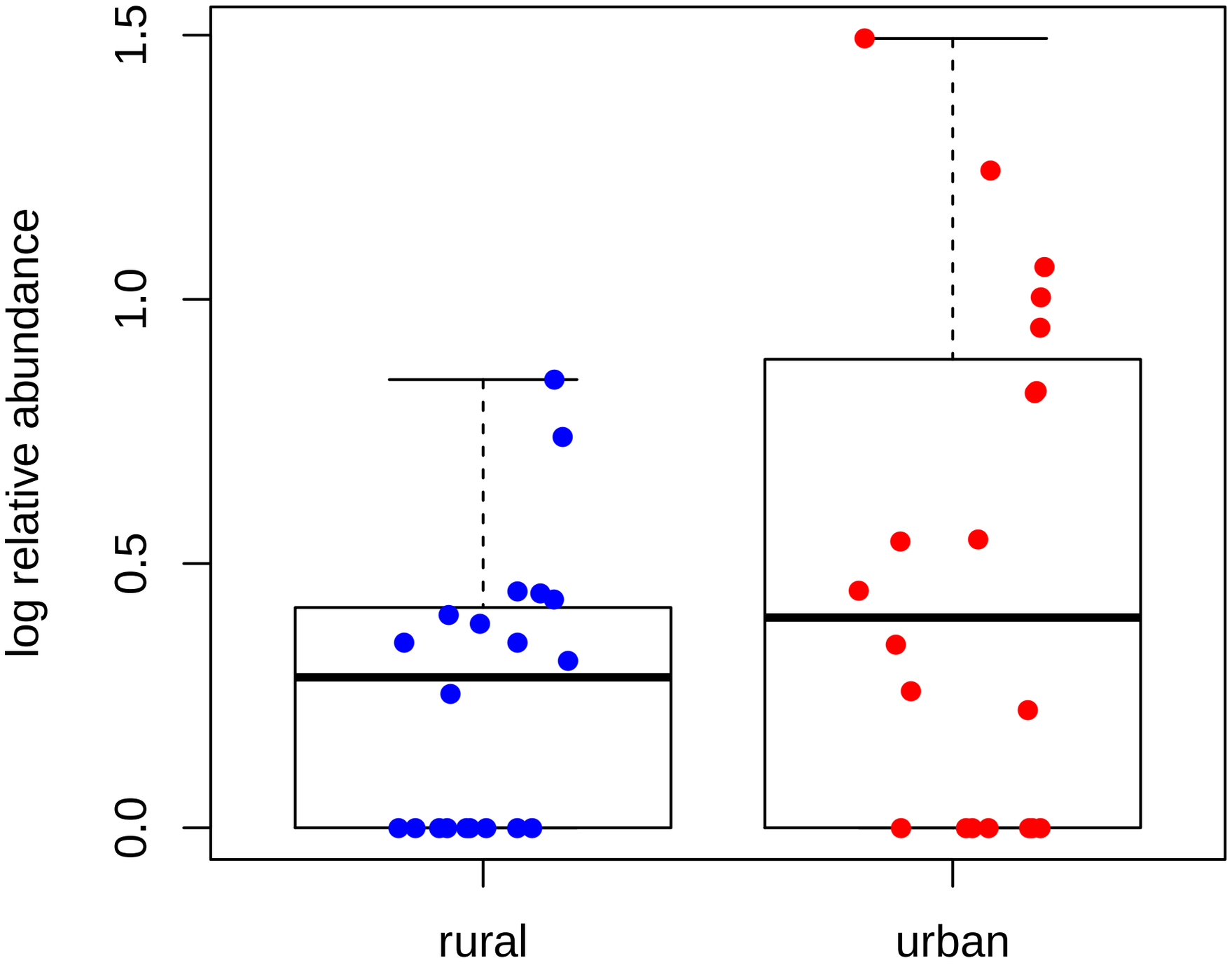

WGS species: Desulfovibrio_aespoeensis
pAdjRuralUrban= 0.19
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

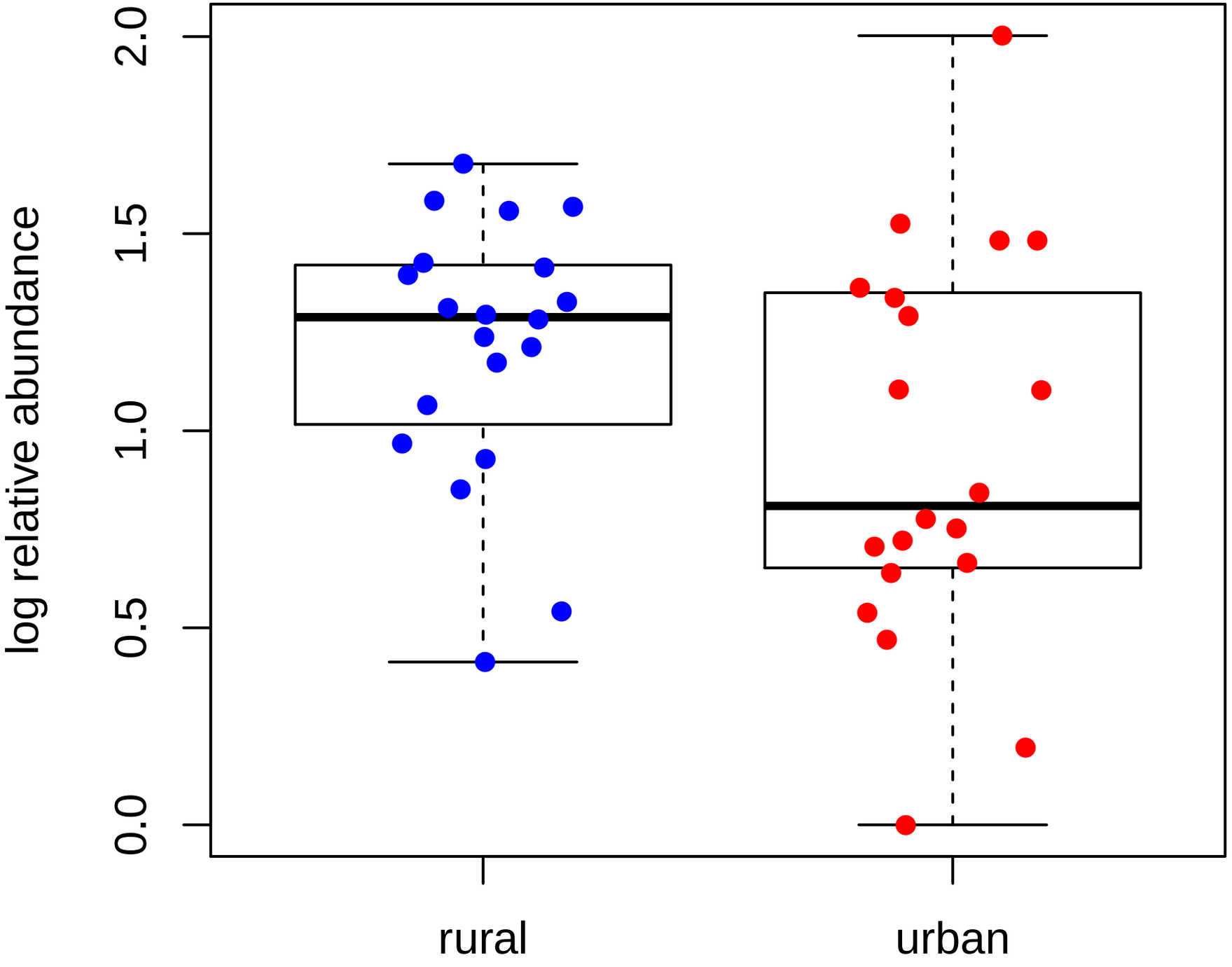

WGS species: Ethanoligenens_harbinense
pAdjRuralUrban= 0.193
log relative abundance
1.0
1.5
2.0
2.5
rural
urban

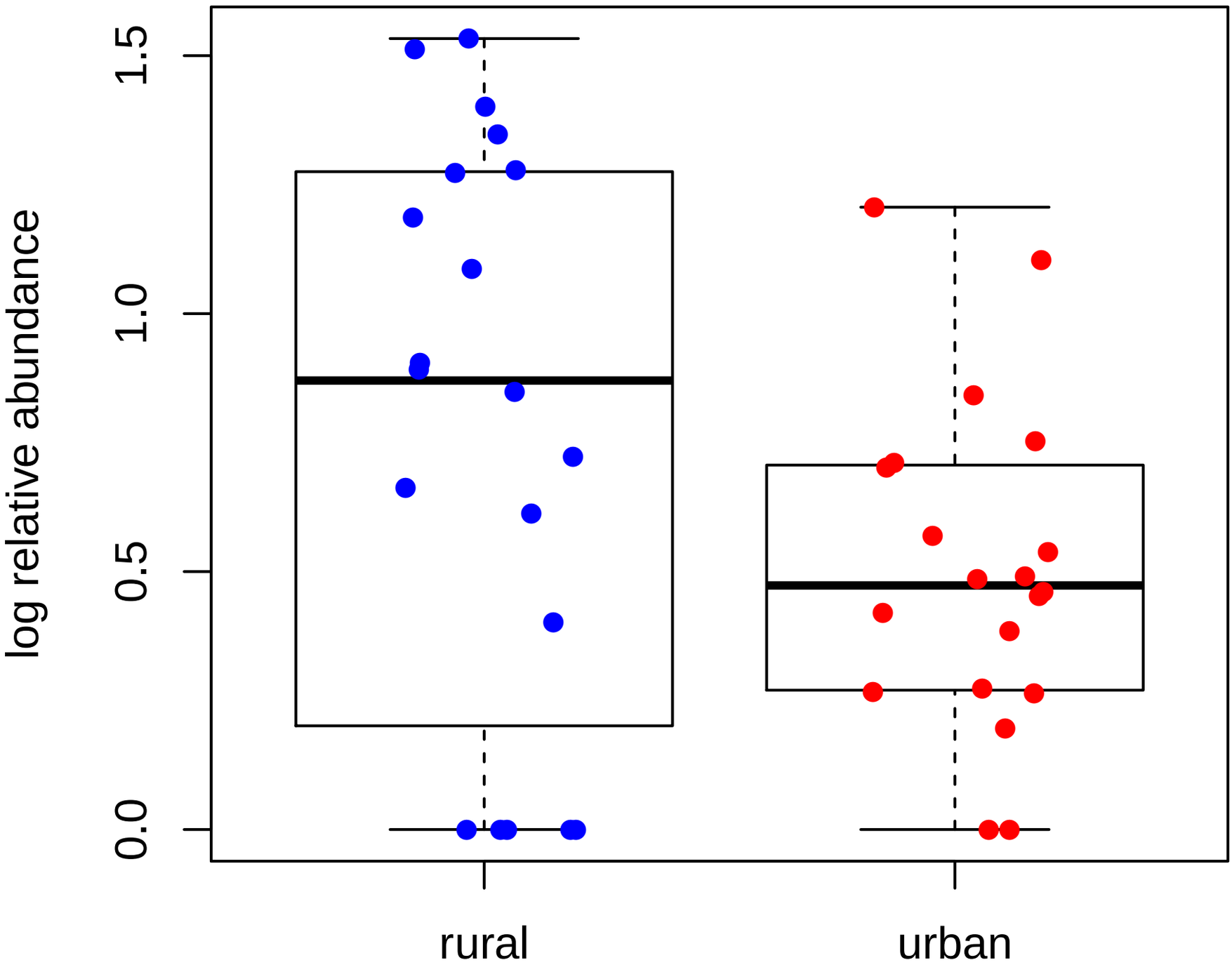

WGS species: Brevibacillus_brevis
pAdjRuralUrban= 0.194
log relative abundance
0.5
1.0
1.5
rural
urban

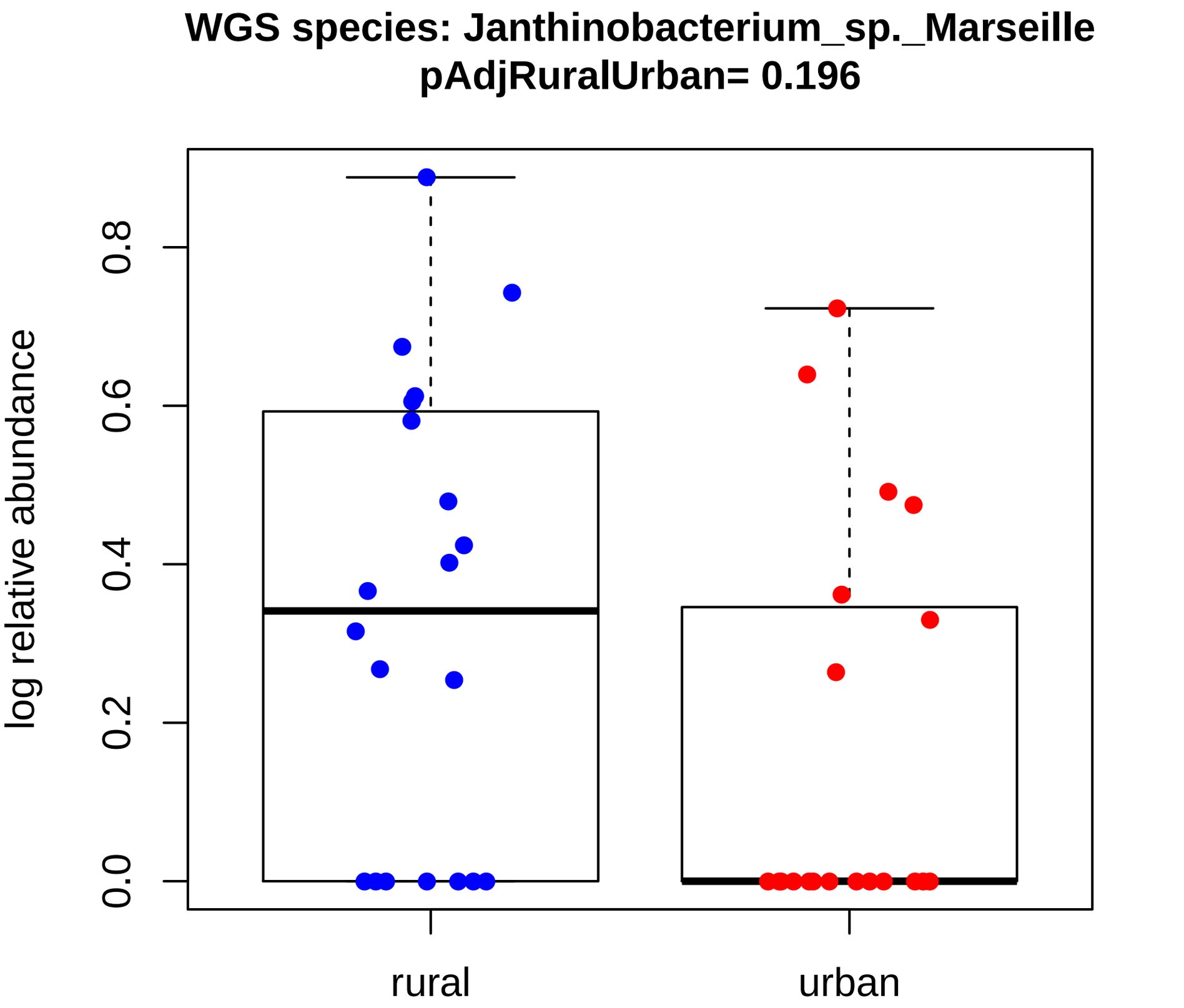

WGS species: Leifsonia_xyli
pAdjRuralUrban= 0.194
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

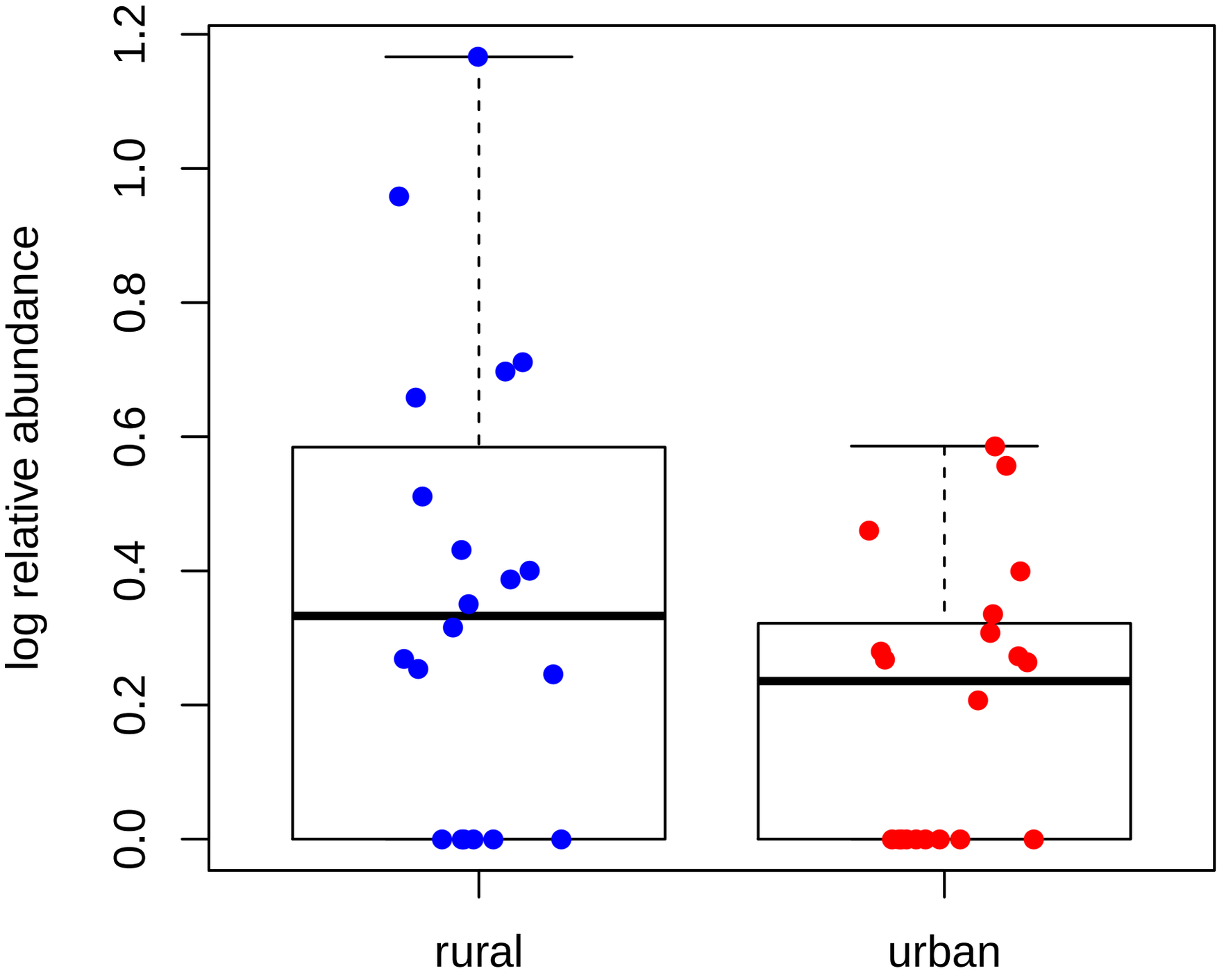

WGS species: Desulfovibrio_magneticus
pAdjRuralUrban= 0.195
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

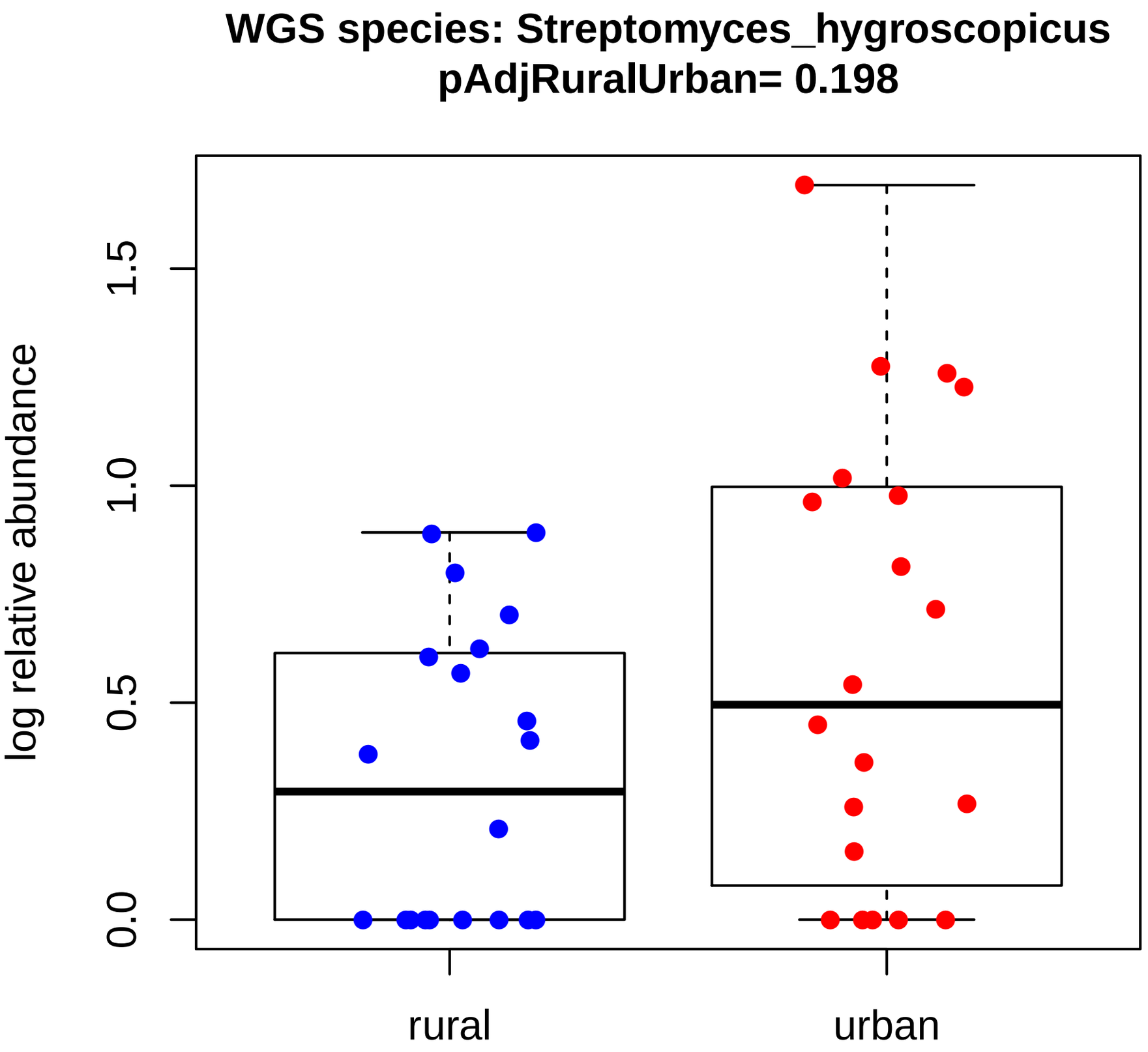

WGS species: Streptomyces_albus
pAdjRuralUrban= 0.195
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

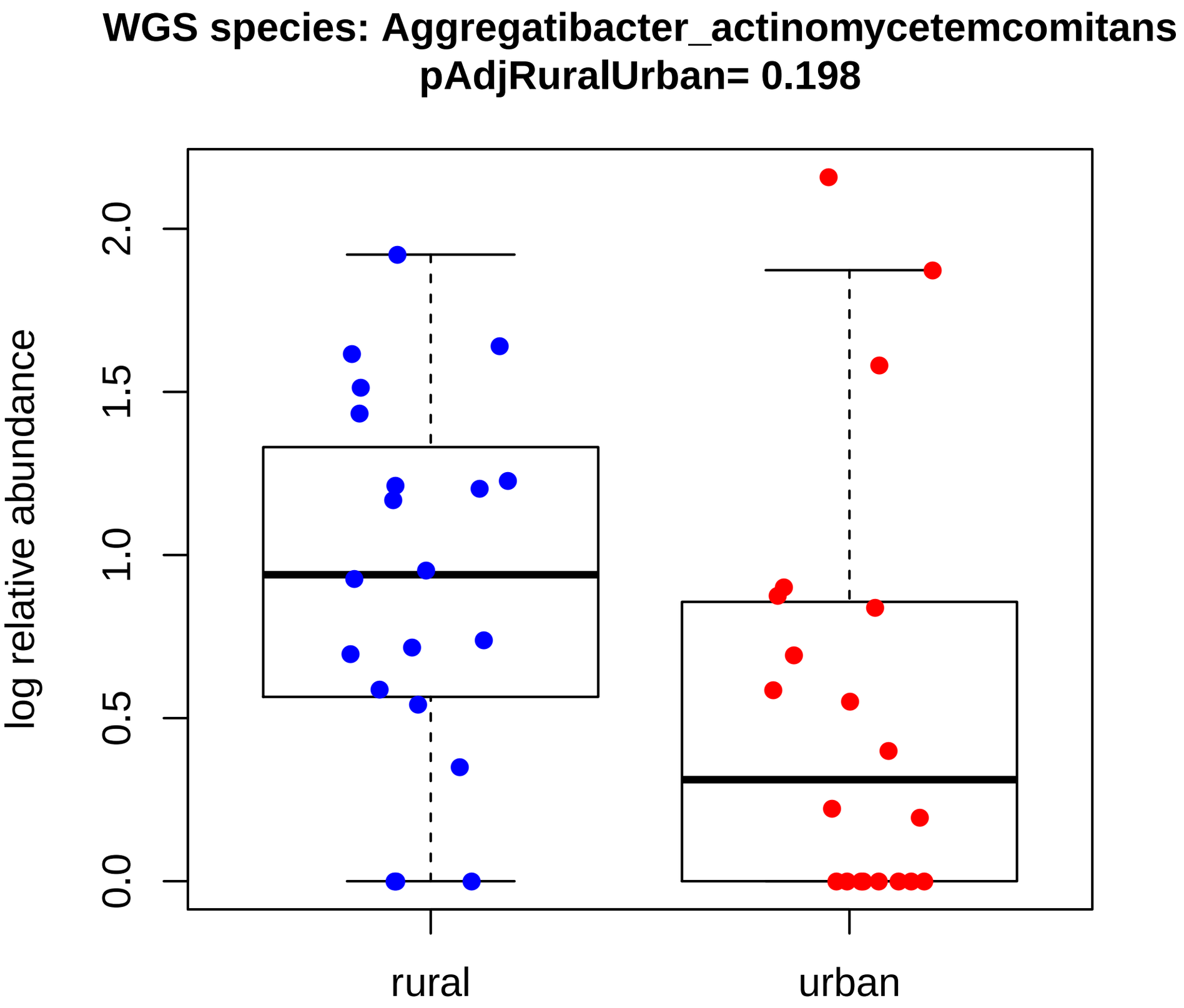

WGS species: Ralstonia_solanacearum
pAdjRuralUrban= 0.195
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

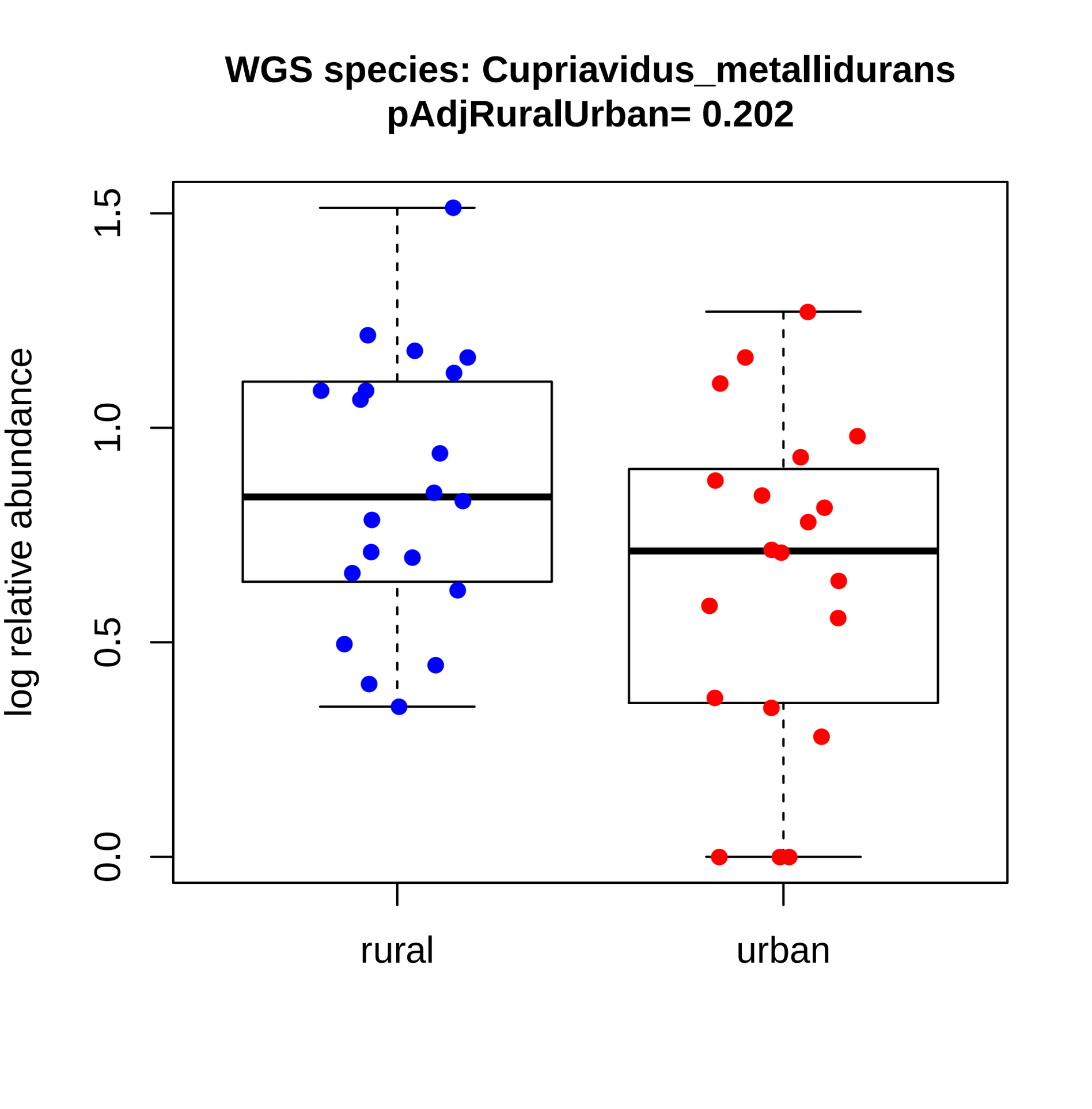

WGS species: Thermincola_potens
pAdjRuralUrban= 0.196
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

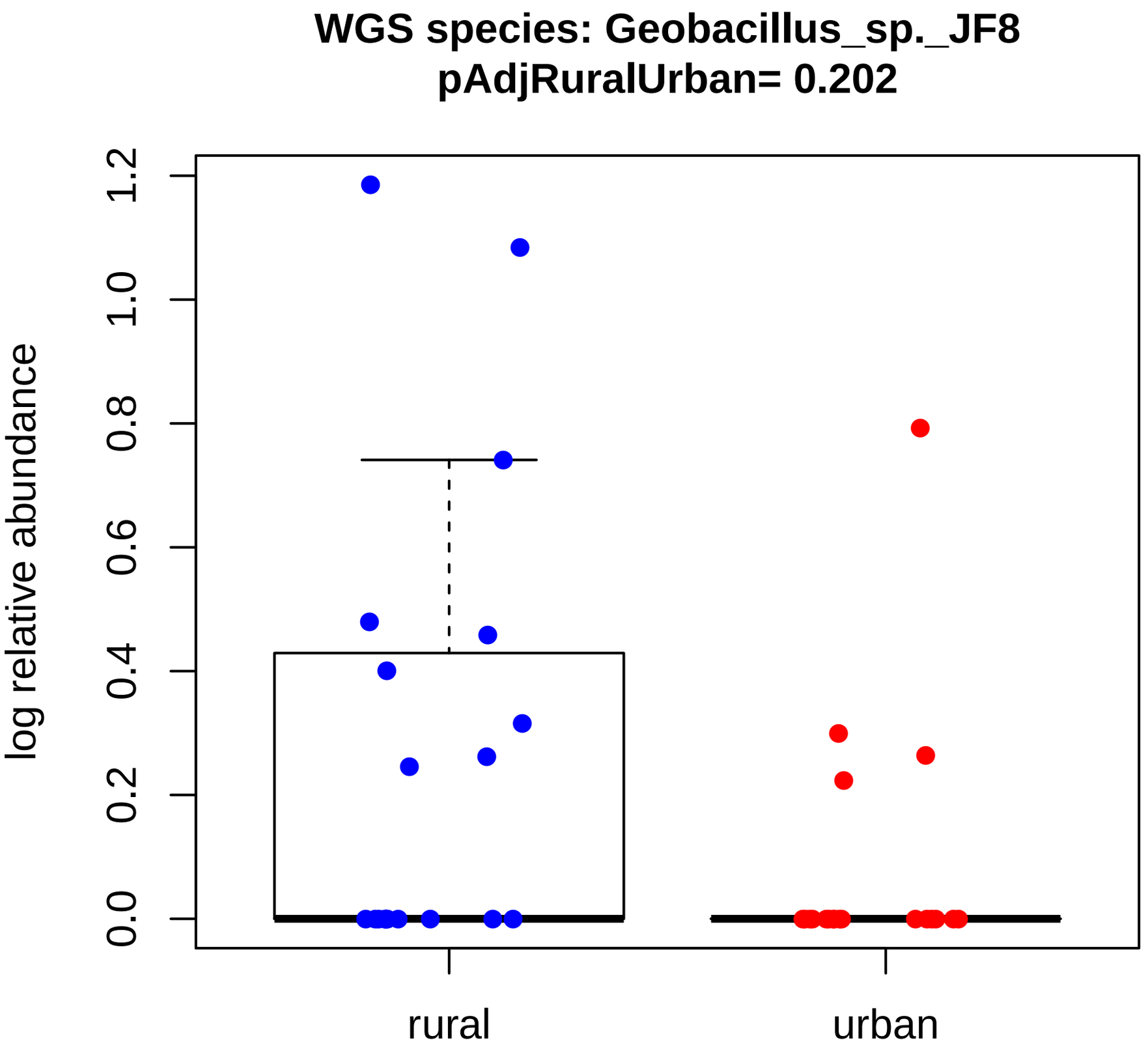

WGS species: Janthinobacterium_sp._Marseille
pAdjRuralUrban= 0.196
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

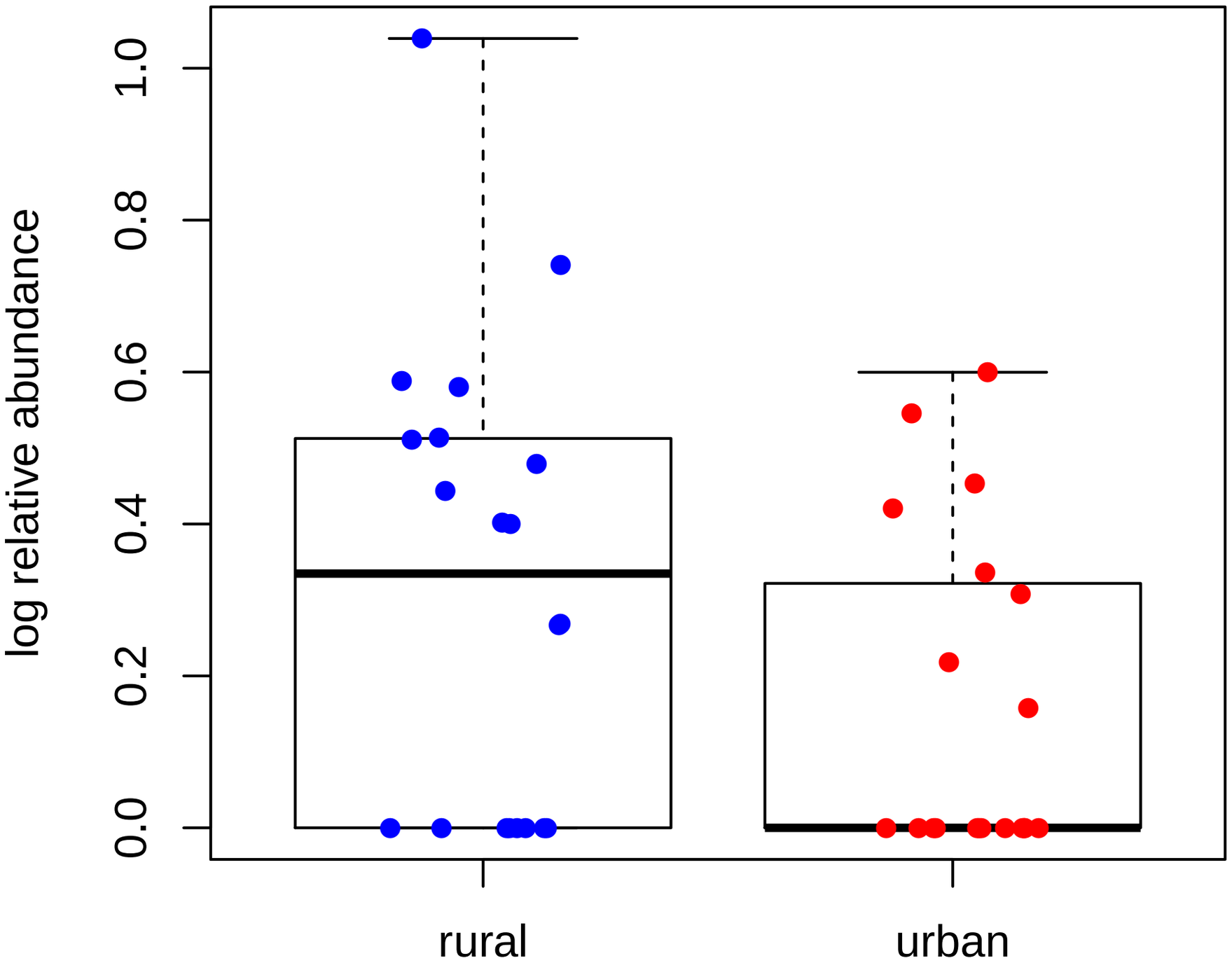

WGS species: Dictyoglomus_thermophilum
pAdjRuralUrban= 0.198
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

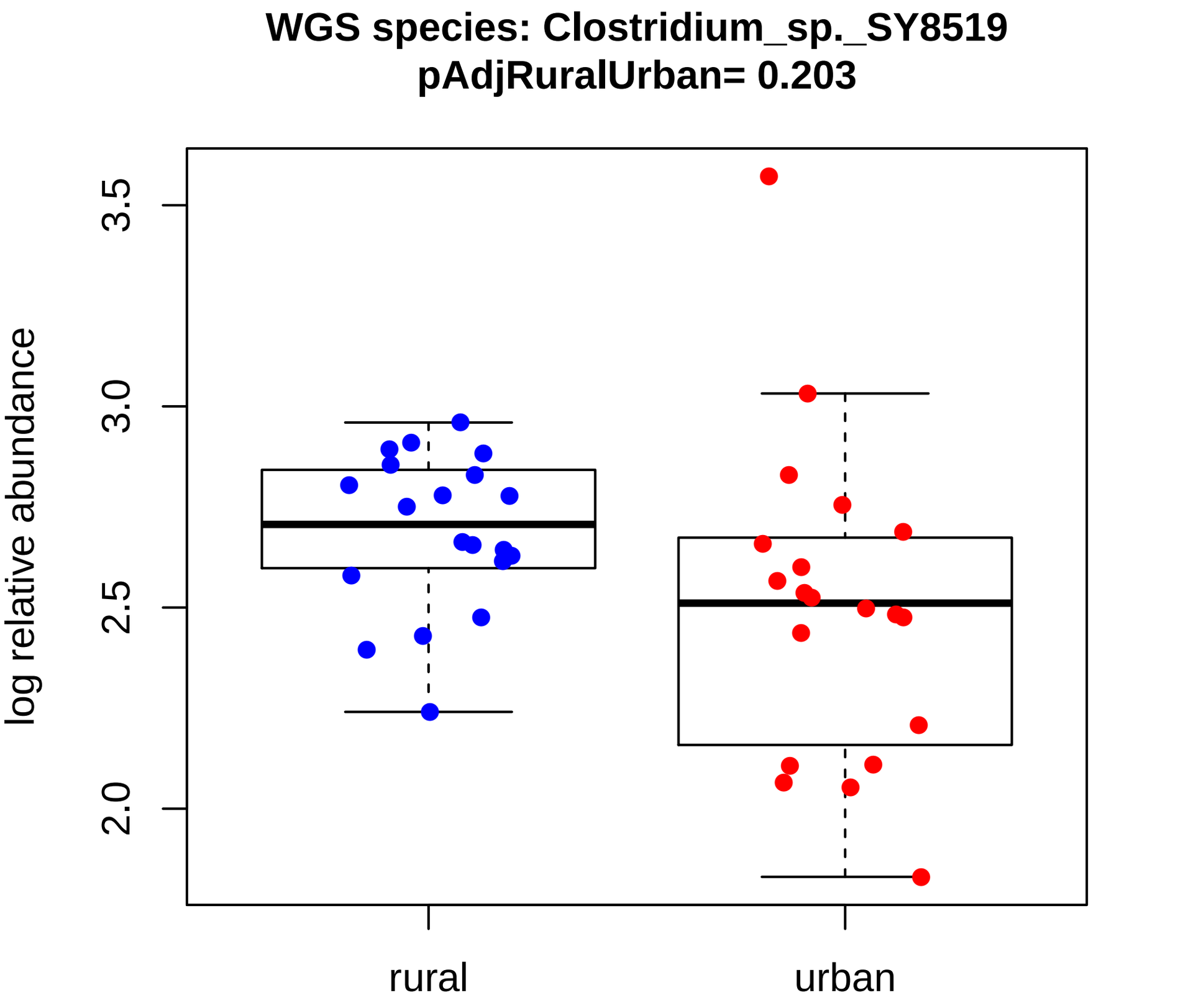

WGS species: Streptomyces_hygroscopicus
pAdjRuralUrban= 0.198
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

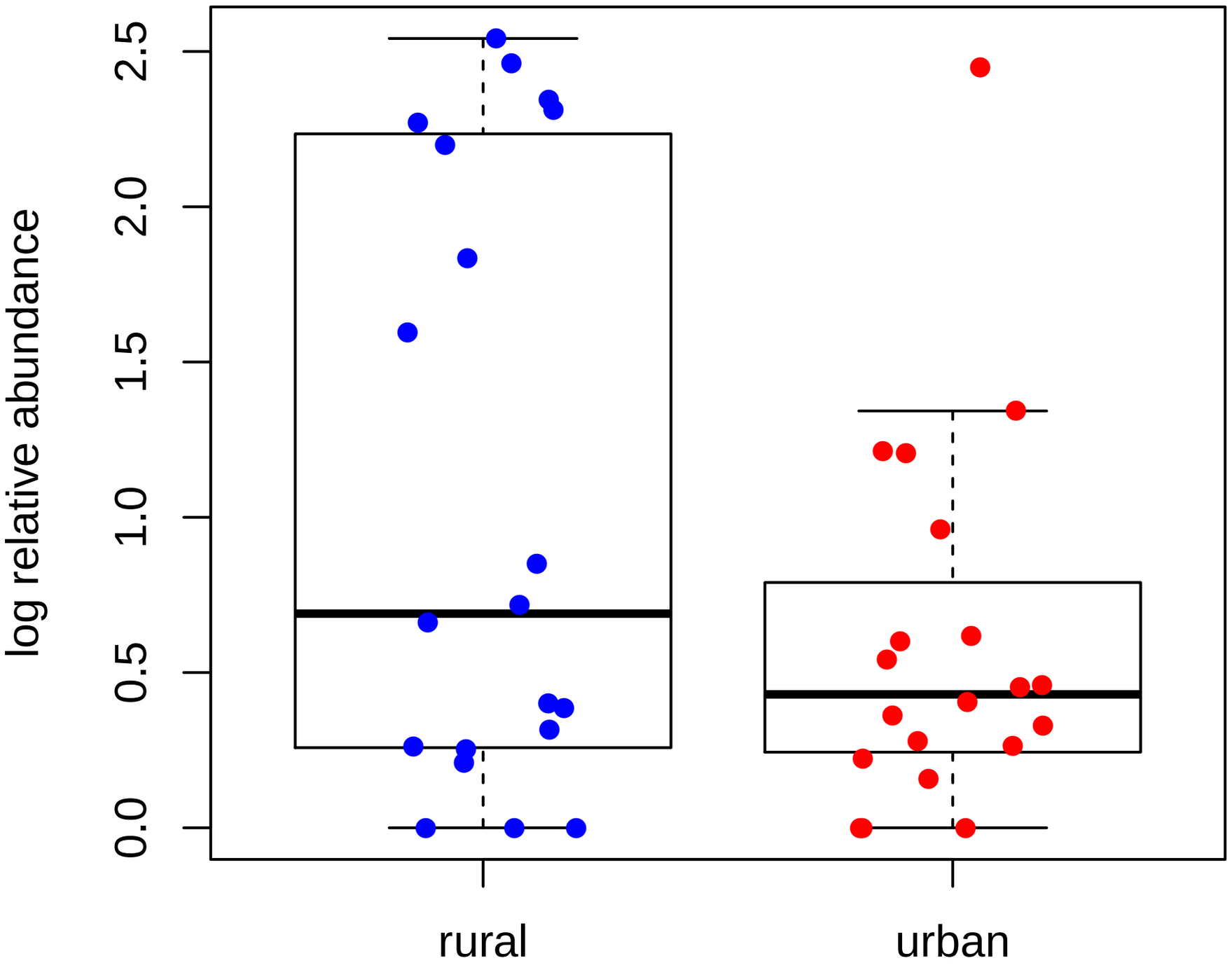

WGS species: Aggregatibacter_actinomycetemcomitans
pAdjRuralUrban= 0.198
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

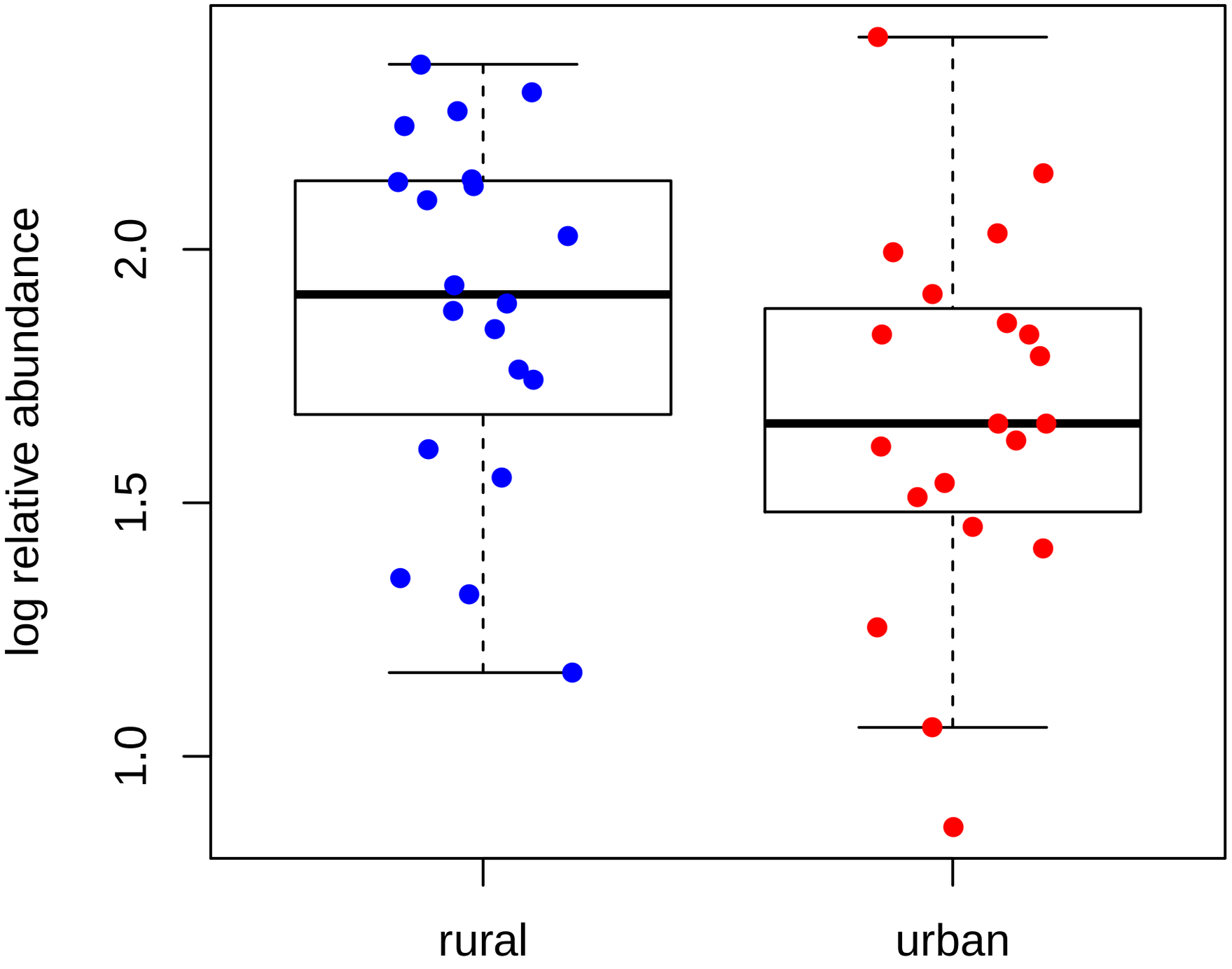

WGS species: Cupriavidus_metallidurans
pAdjRuralUrban= 0.202
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

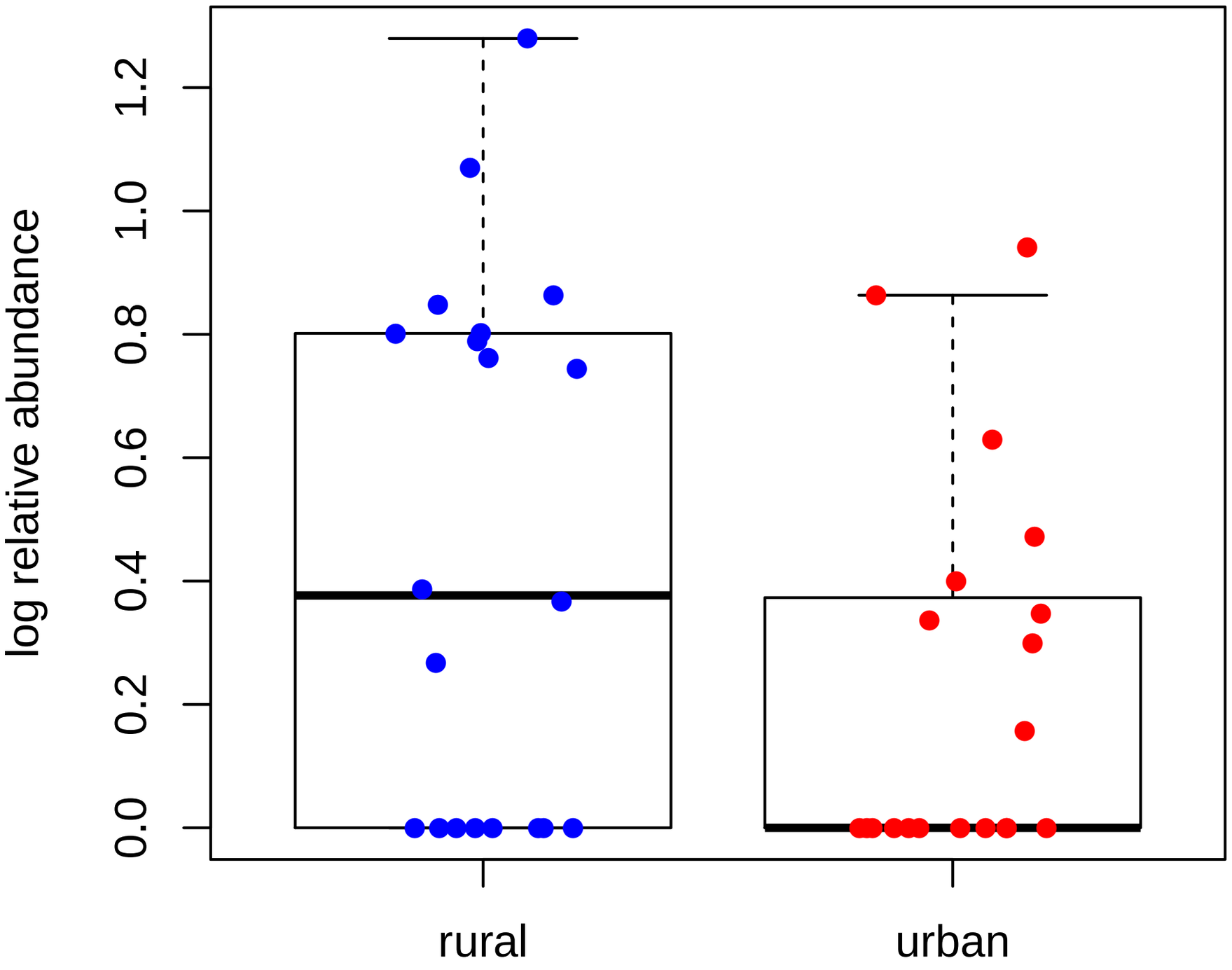

WGS species: Geobacillus_sp._JF8
pAdjRuralUrban= 0.202
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

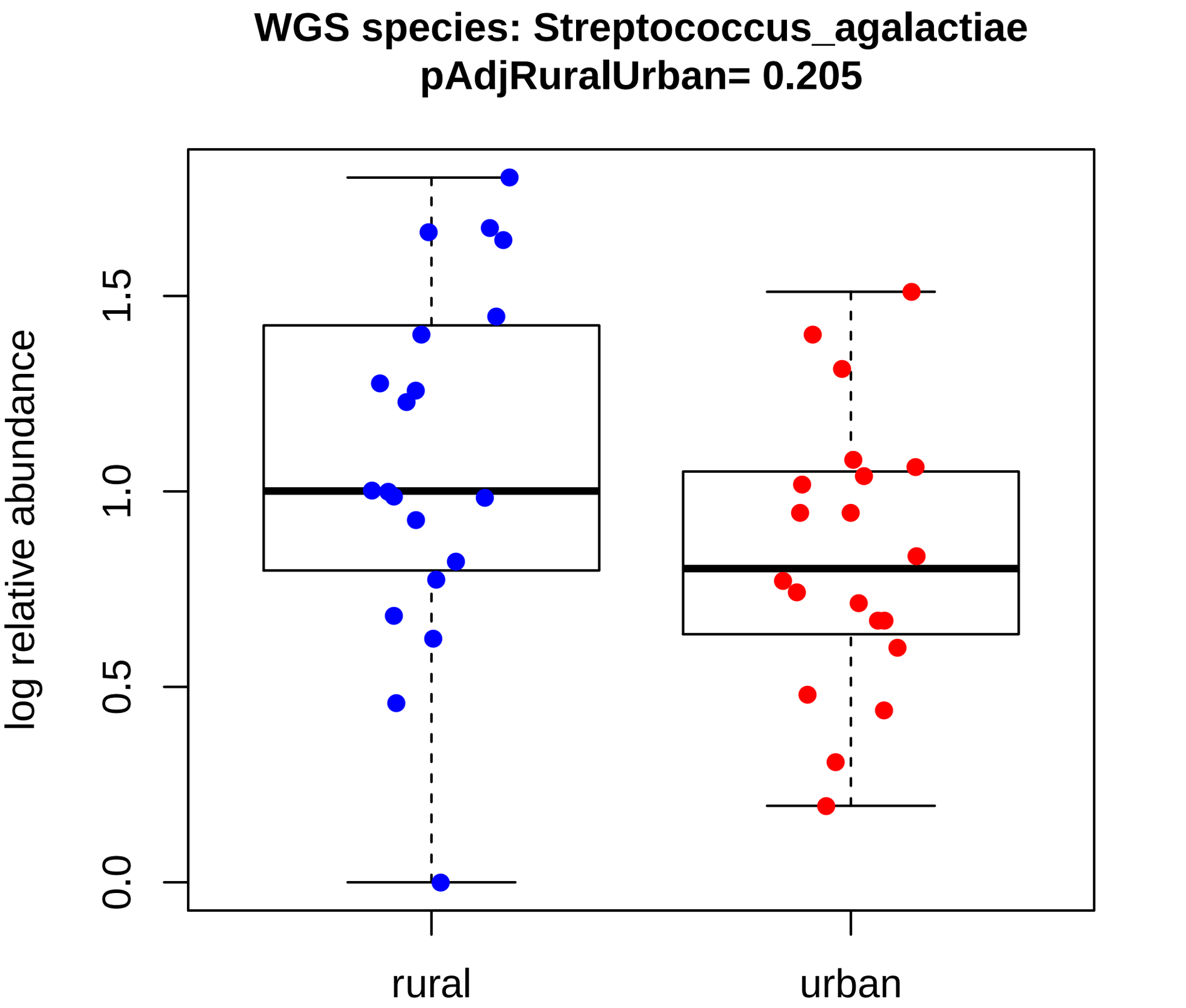

WGS species: Bacteriovorax_marinus
pAdjRuralUrban= 0.202
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

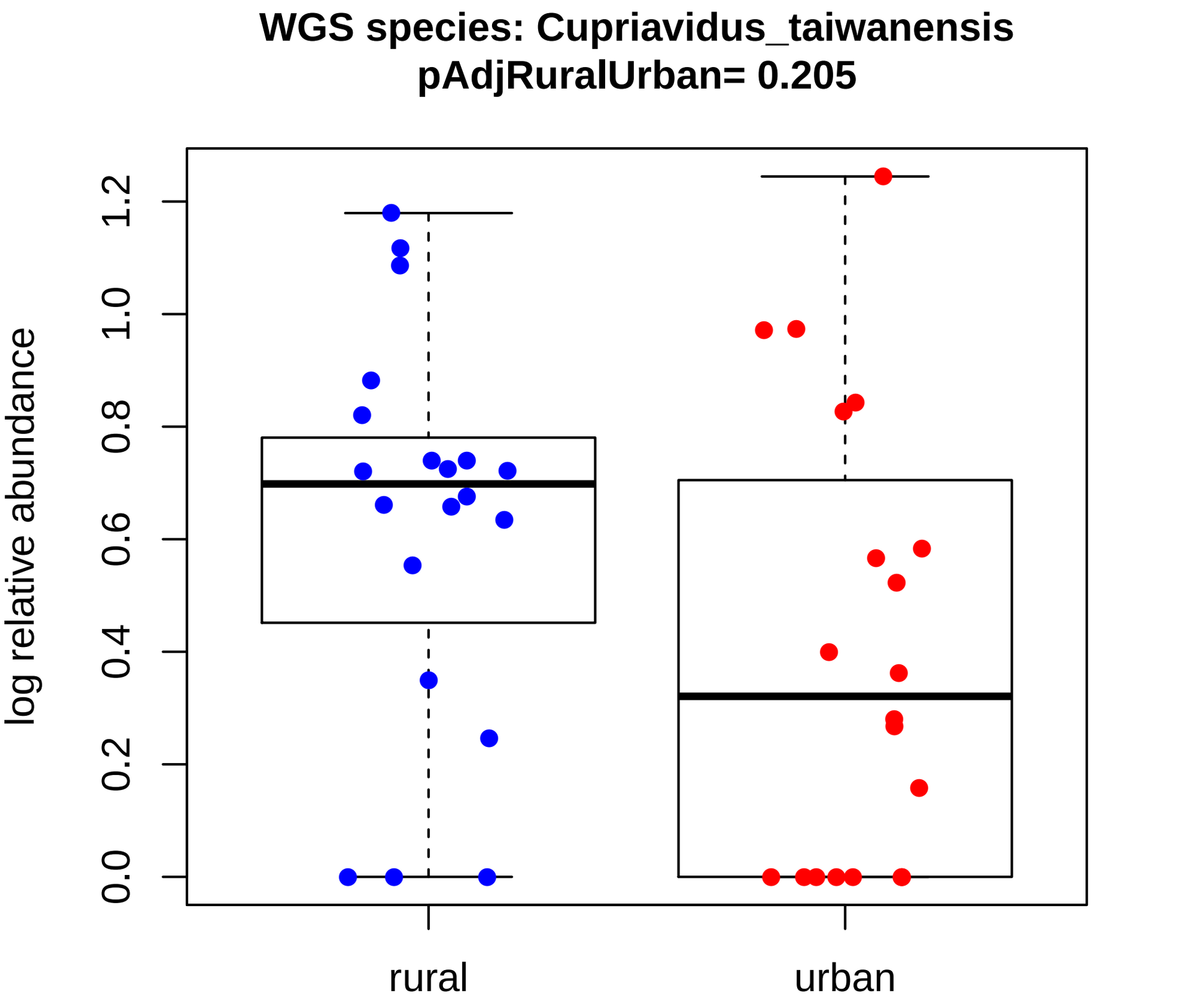

WGS species: Clostridium_sp._SY8519
pAdjRuralUrban= 0.203
log relative abundance
3.5
3.0
2.5
2.0
rural
urban

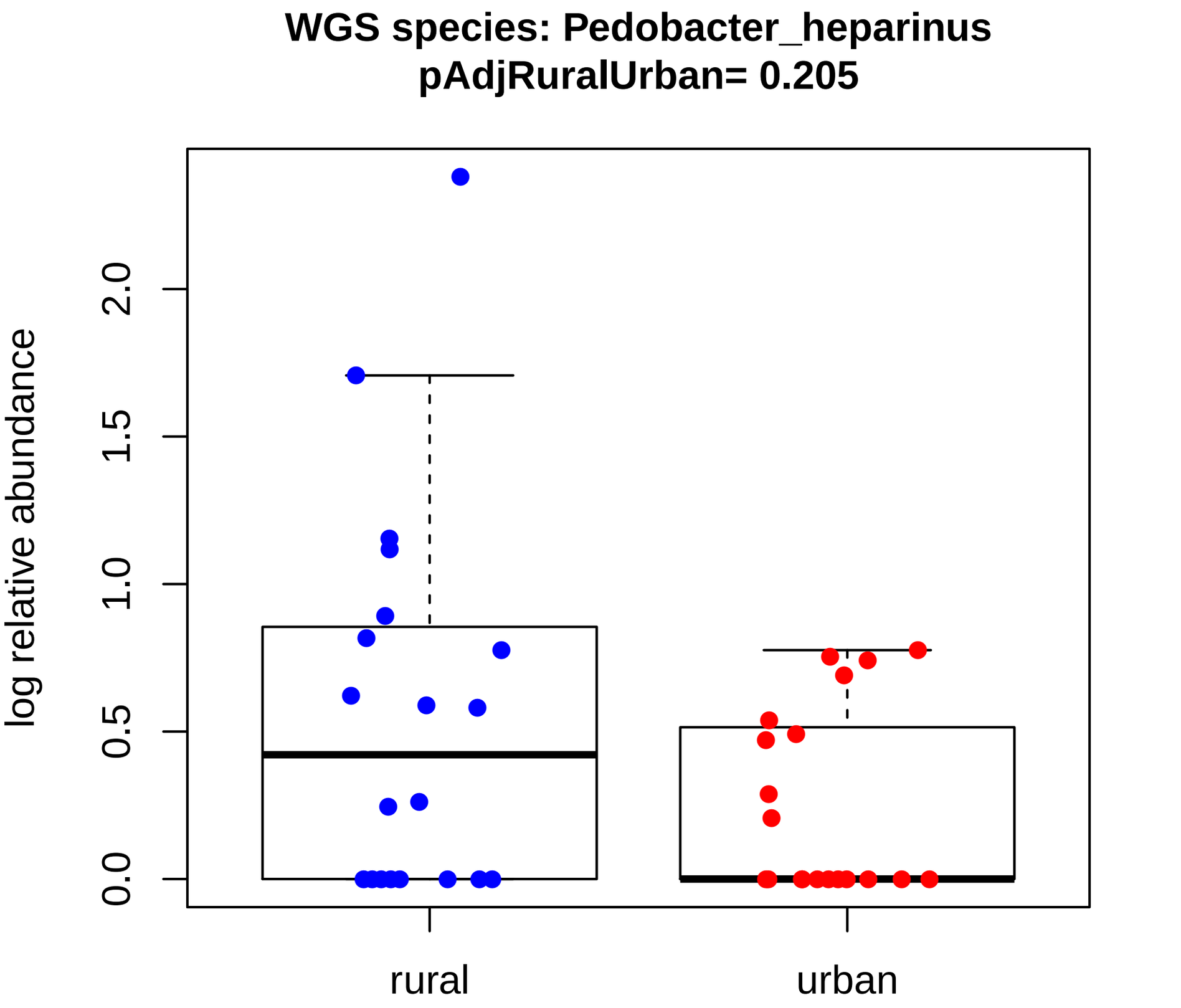

WGS species: Photorhabdus_luminescens
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

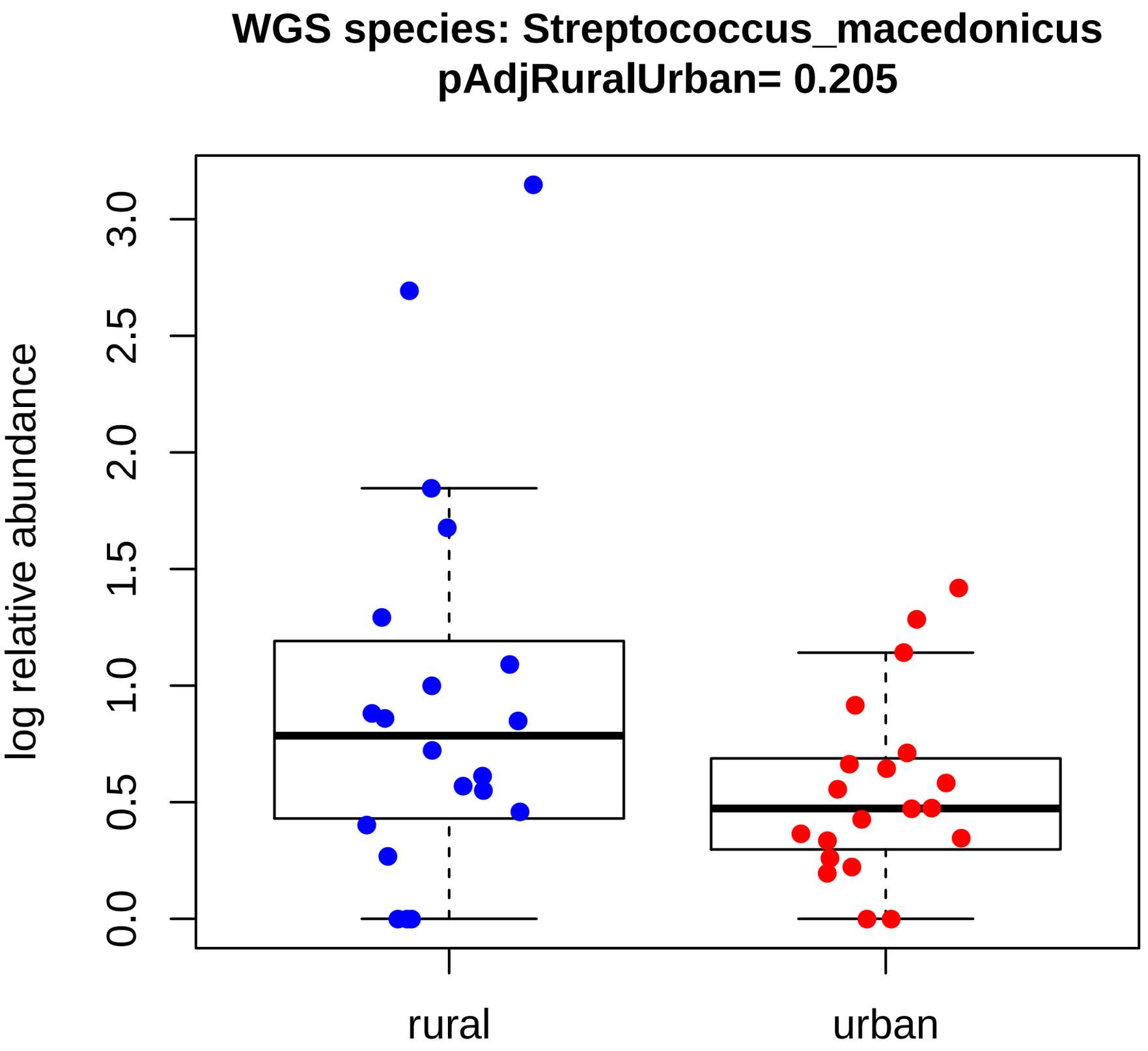

WGS species: Treponema_succinifaciens
pAdjRuralUrban= 0.205
log relative abundance
1.0
1.5
2.0
rural
urban

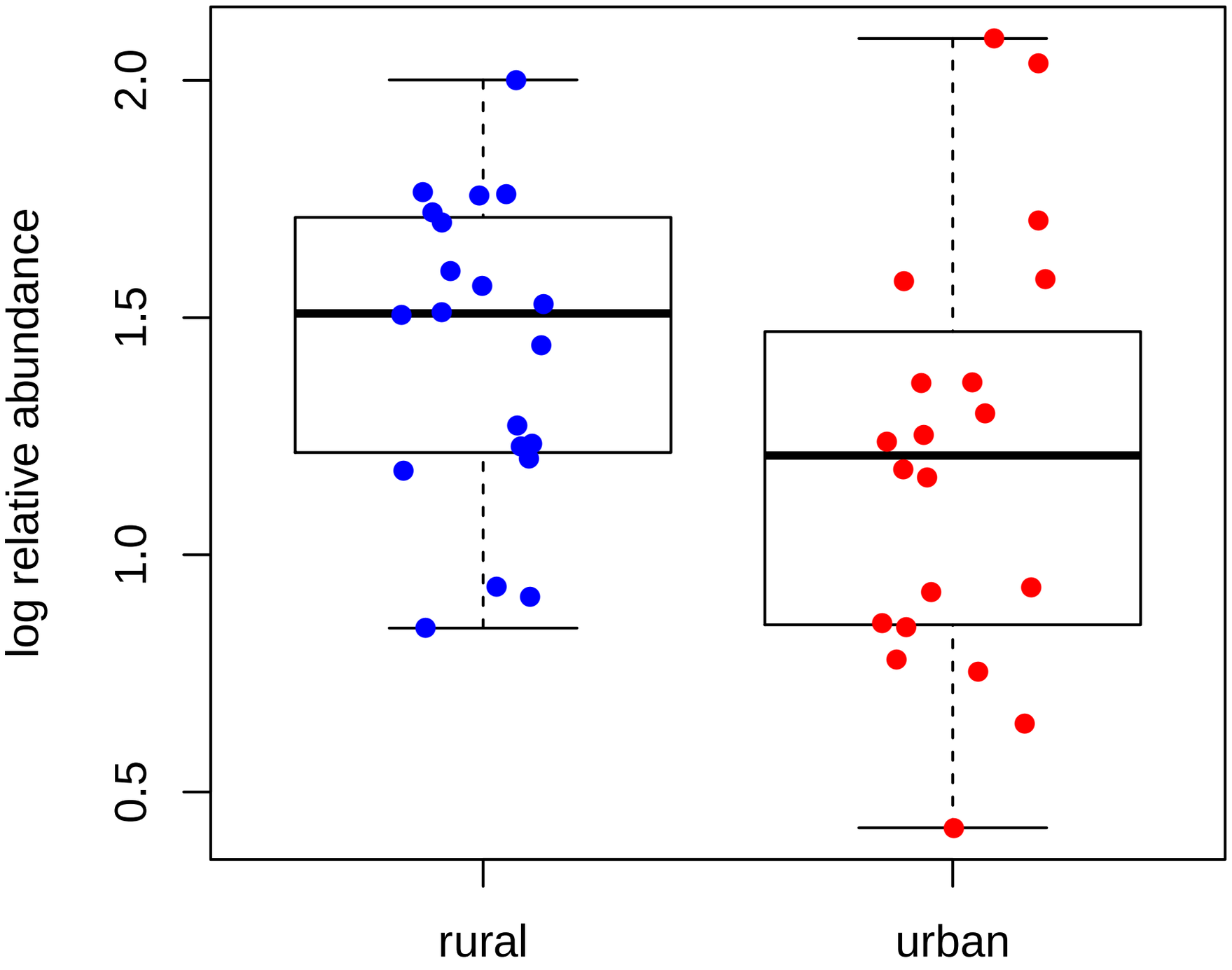

WGS species: Gallibacterium_anatis
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

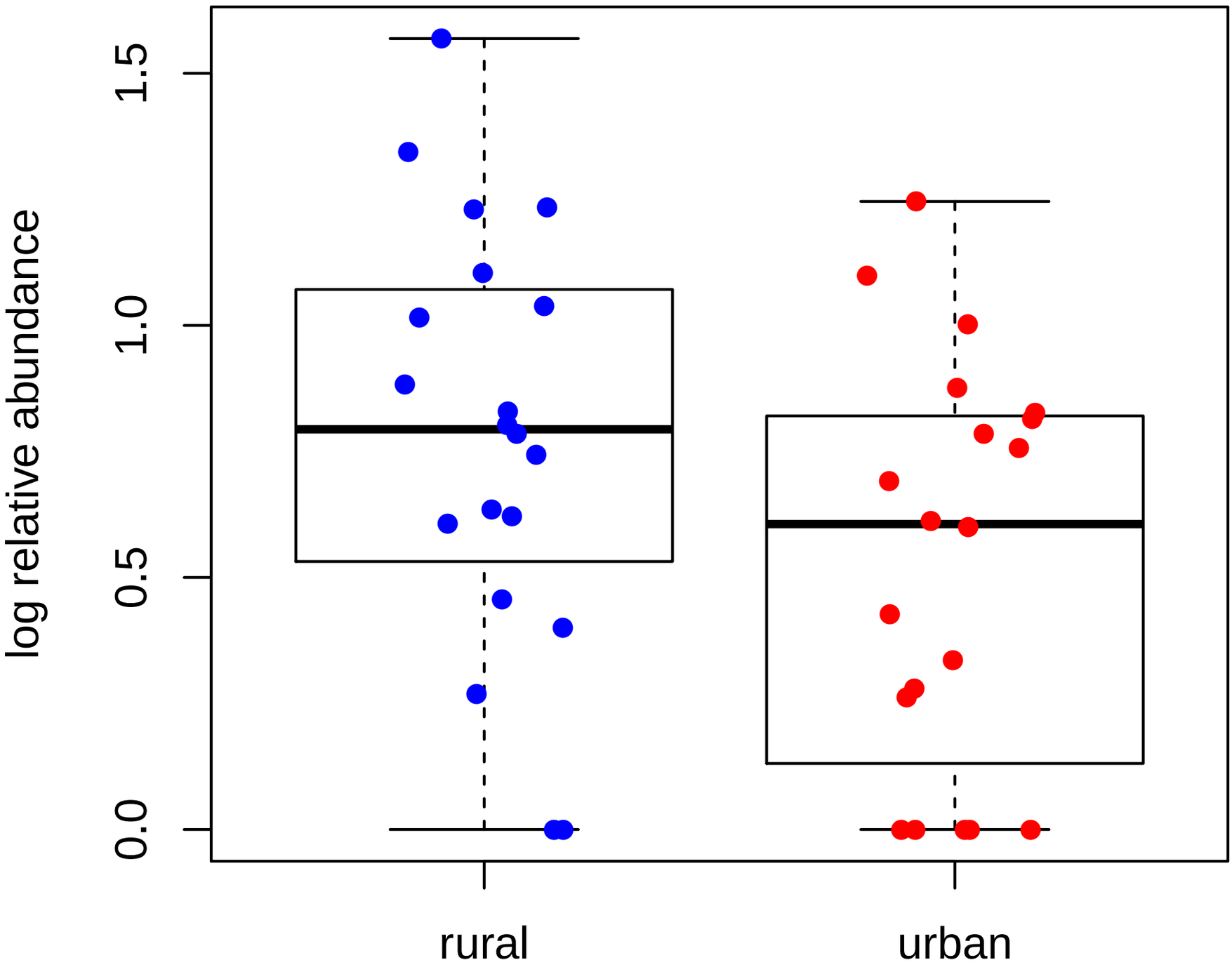

WGS species: Streptococcus_agalactiae
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

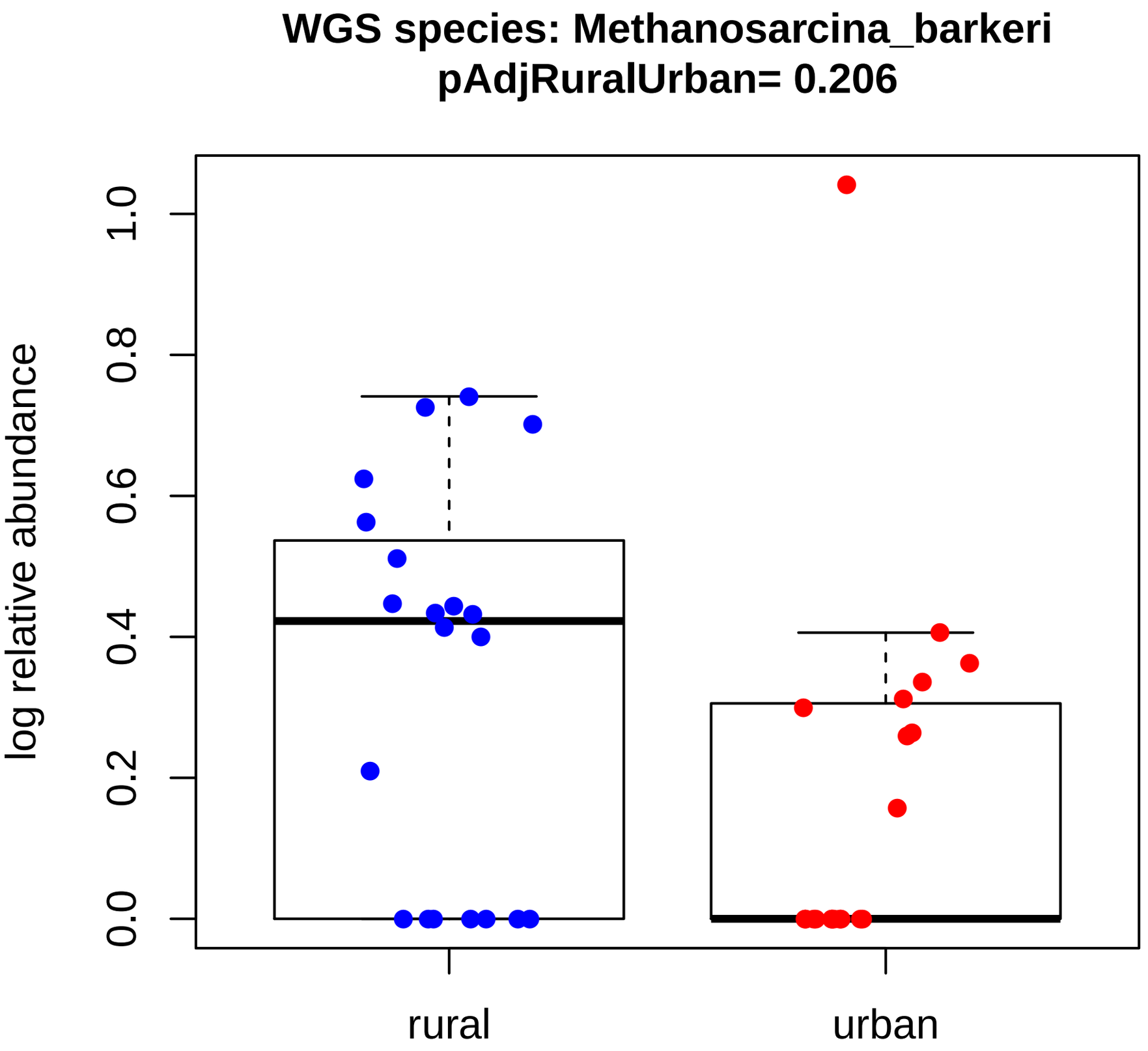

WGS species: Cupriavidus_taiwanensis
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

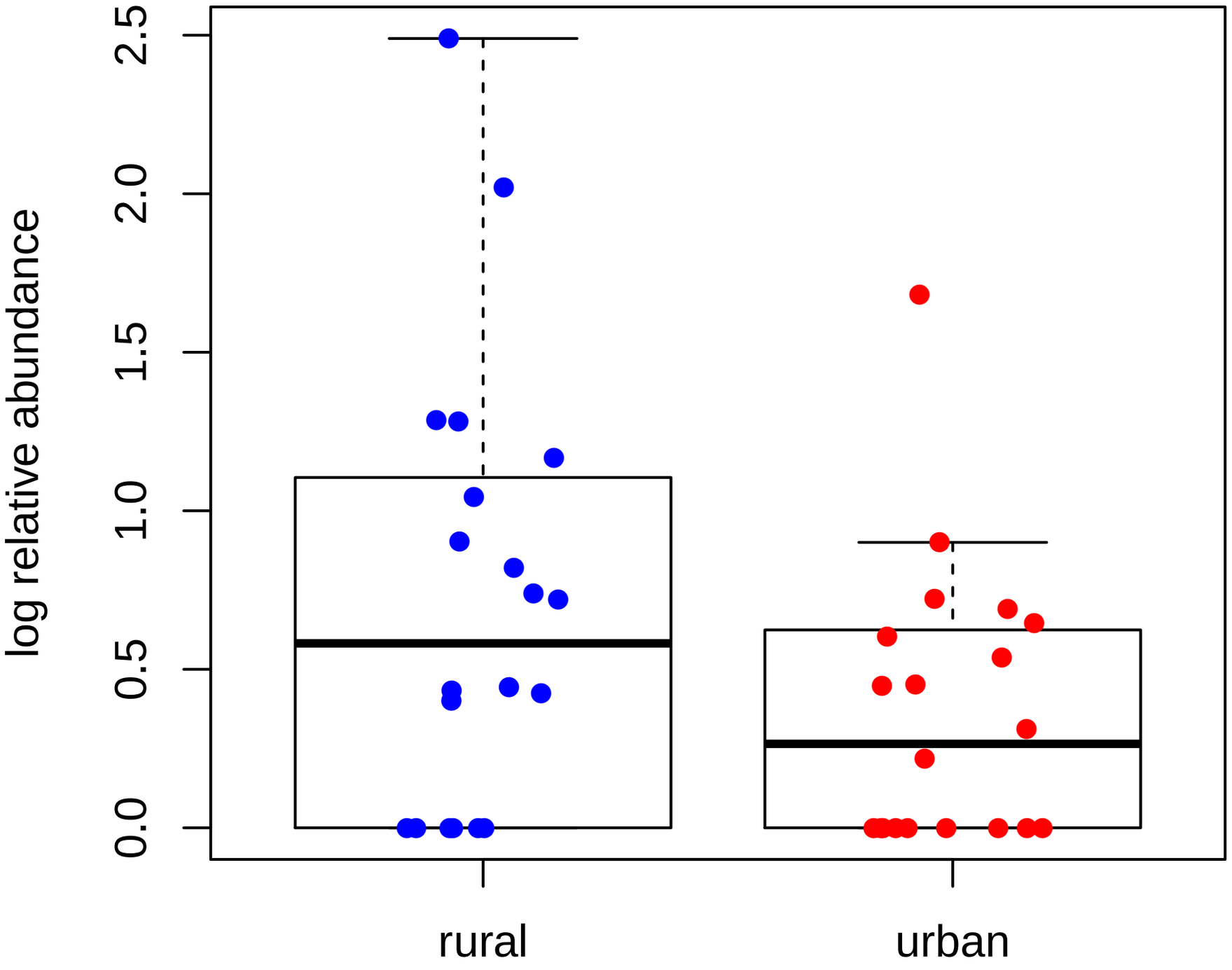

WGS species: Pedobacter_heparinus
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

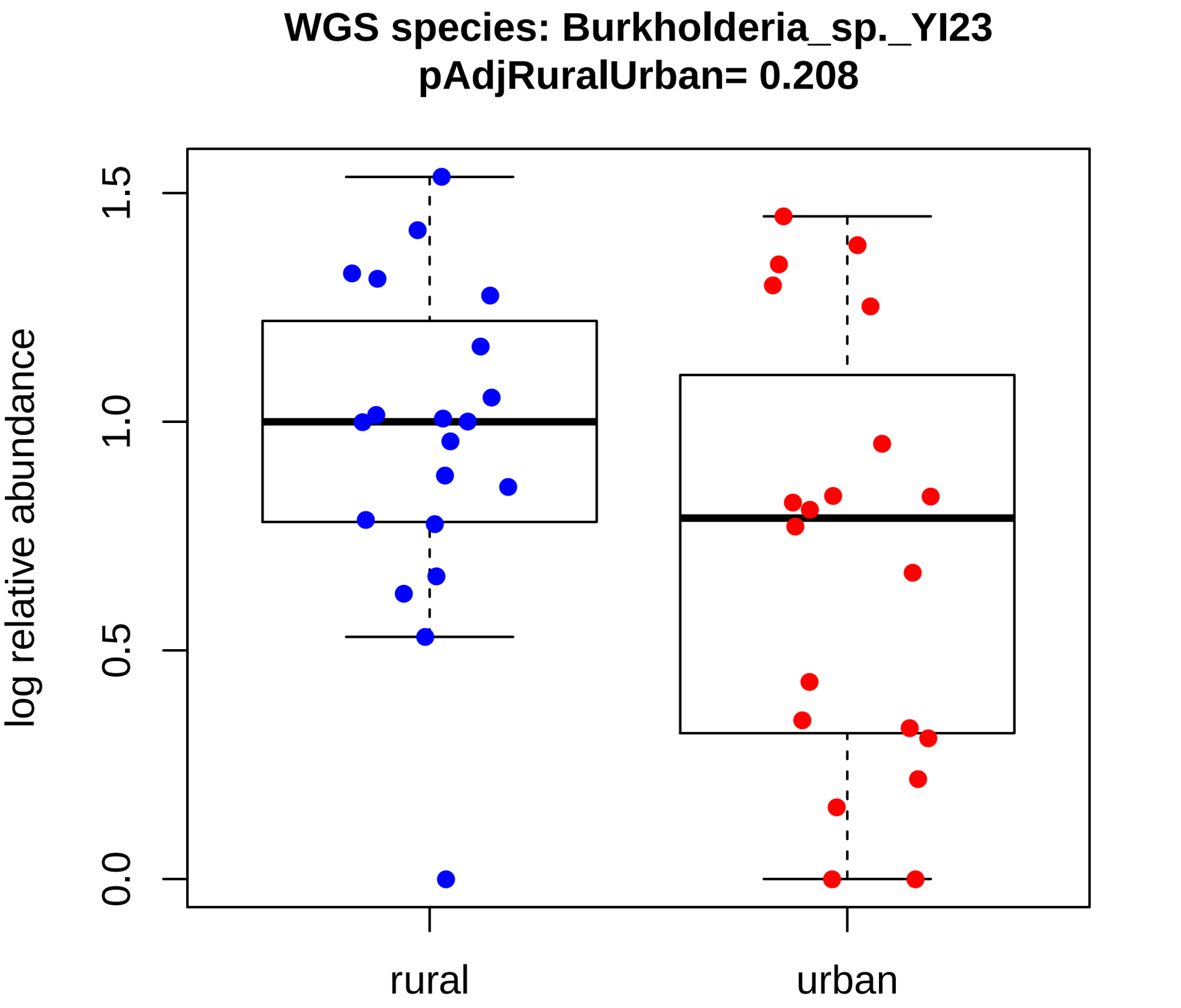

WGS species: Streptococcus_macedonicus
pAdjRuralUrban= 0.205
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

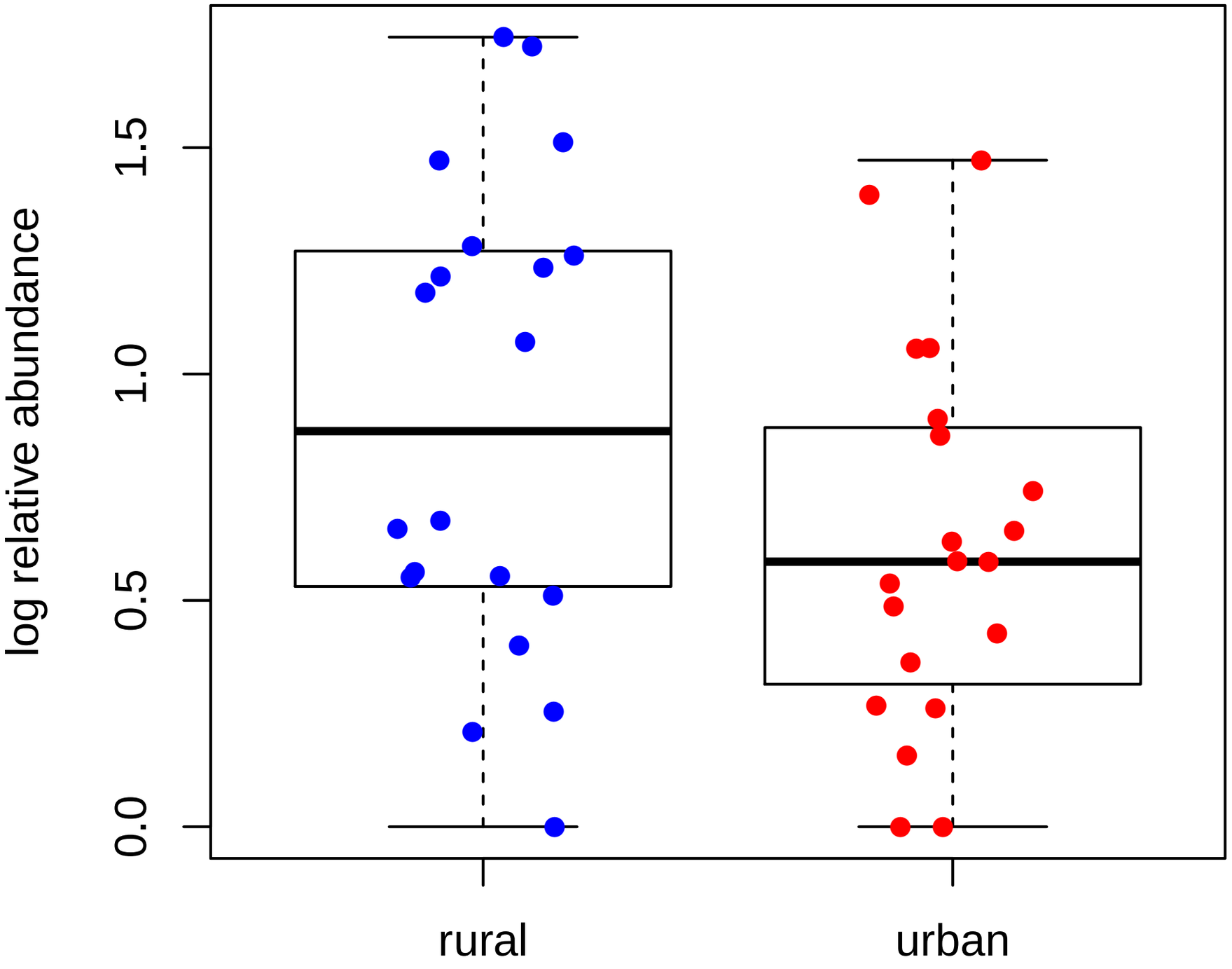

WGS species: Clostridium_beijerinckii
pAdjRuralUrban= 0.206
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

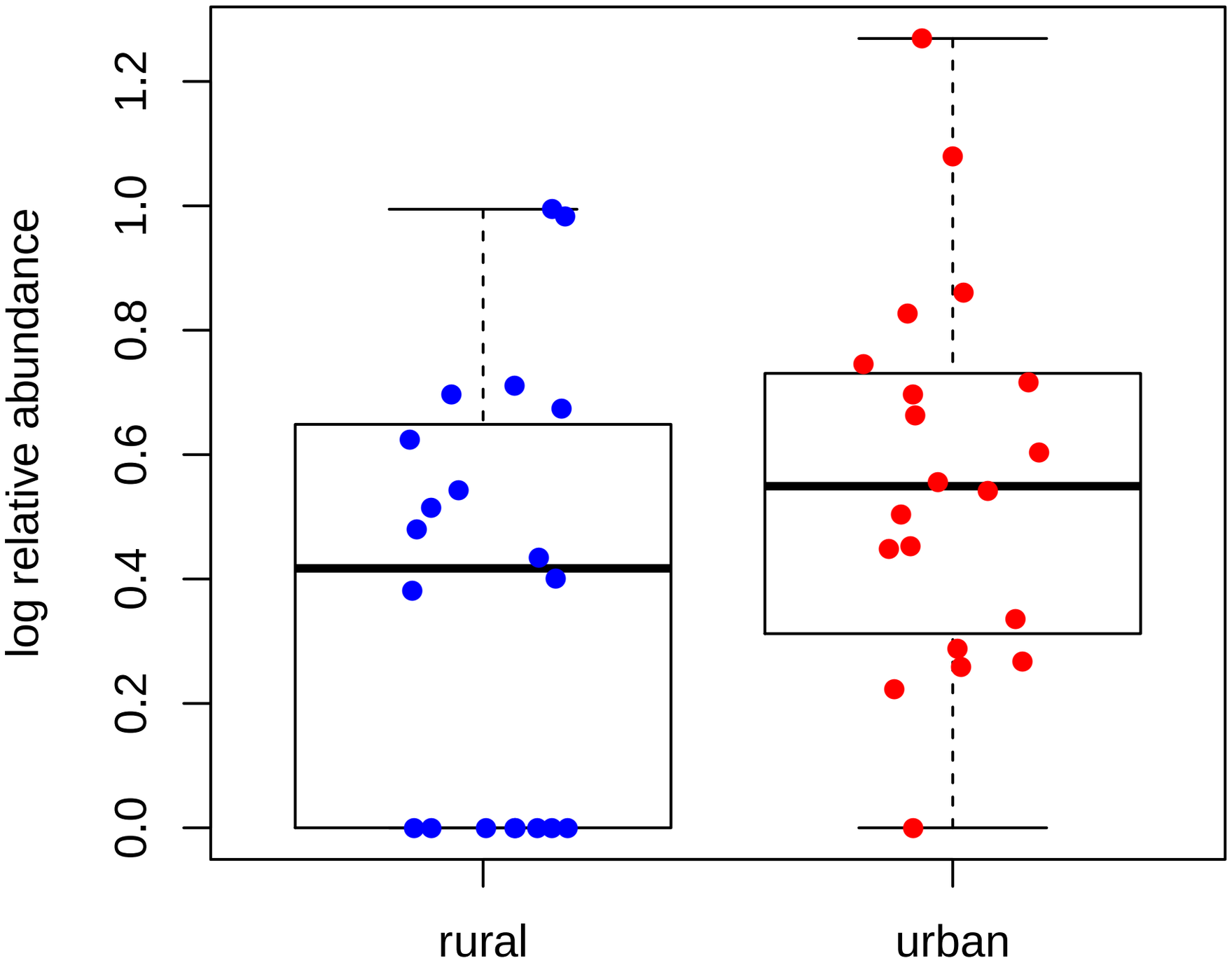

WGS species: Lysinibacillus_sphaericus
pAdjRuralUrban= 0.206
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

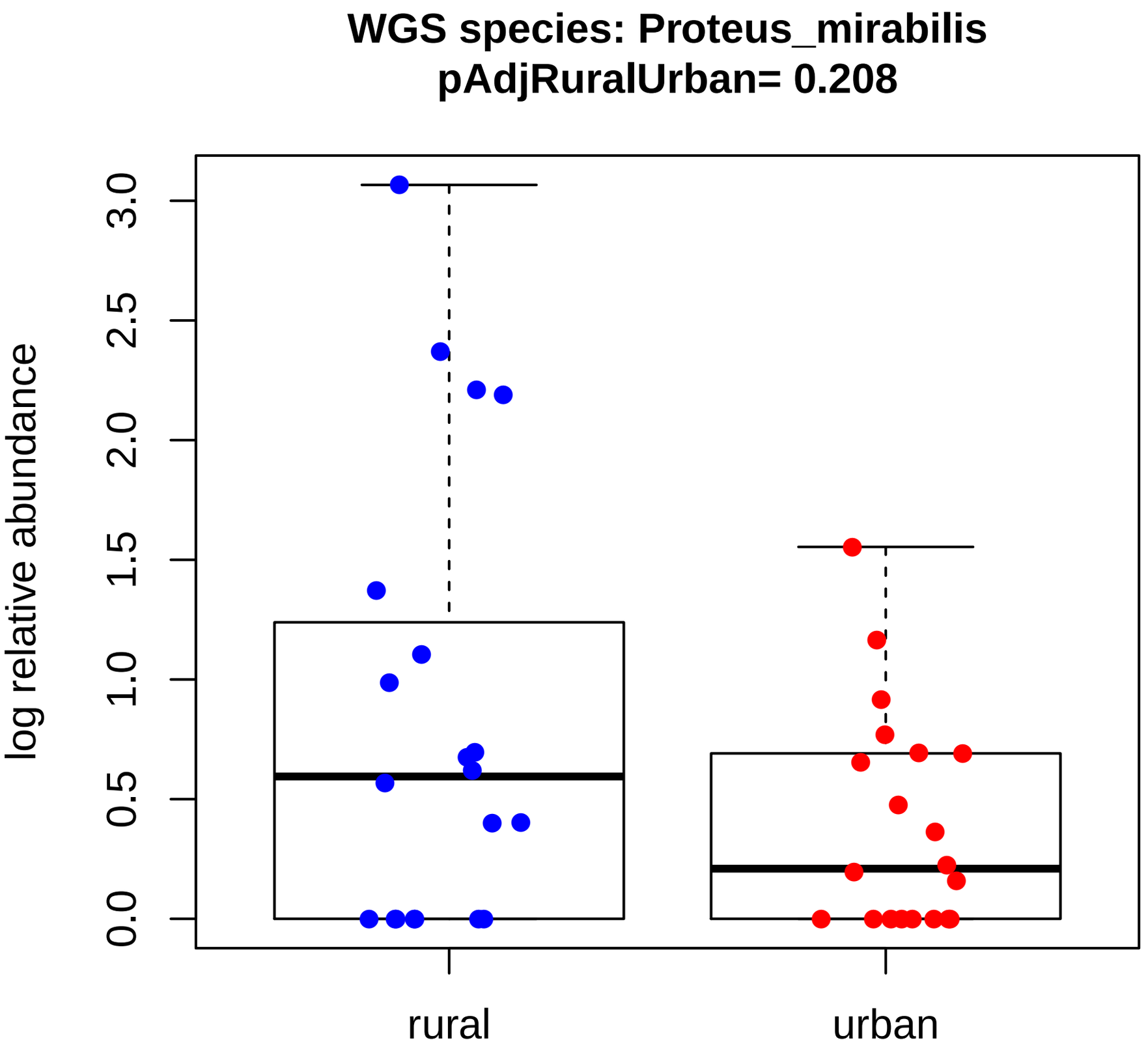

WGS species: Methanosarcina_barkeri
pAdjRuralUrban= 0.206
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

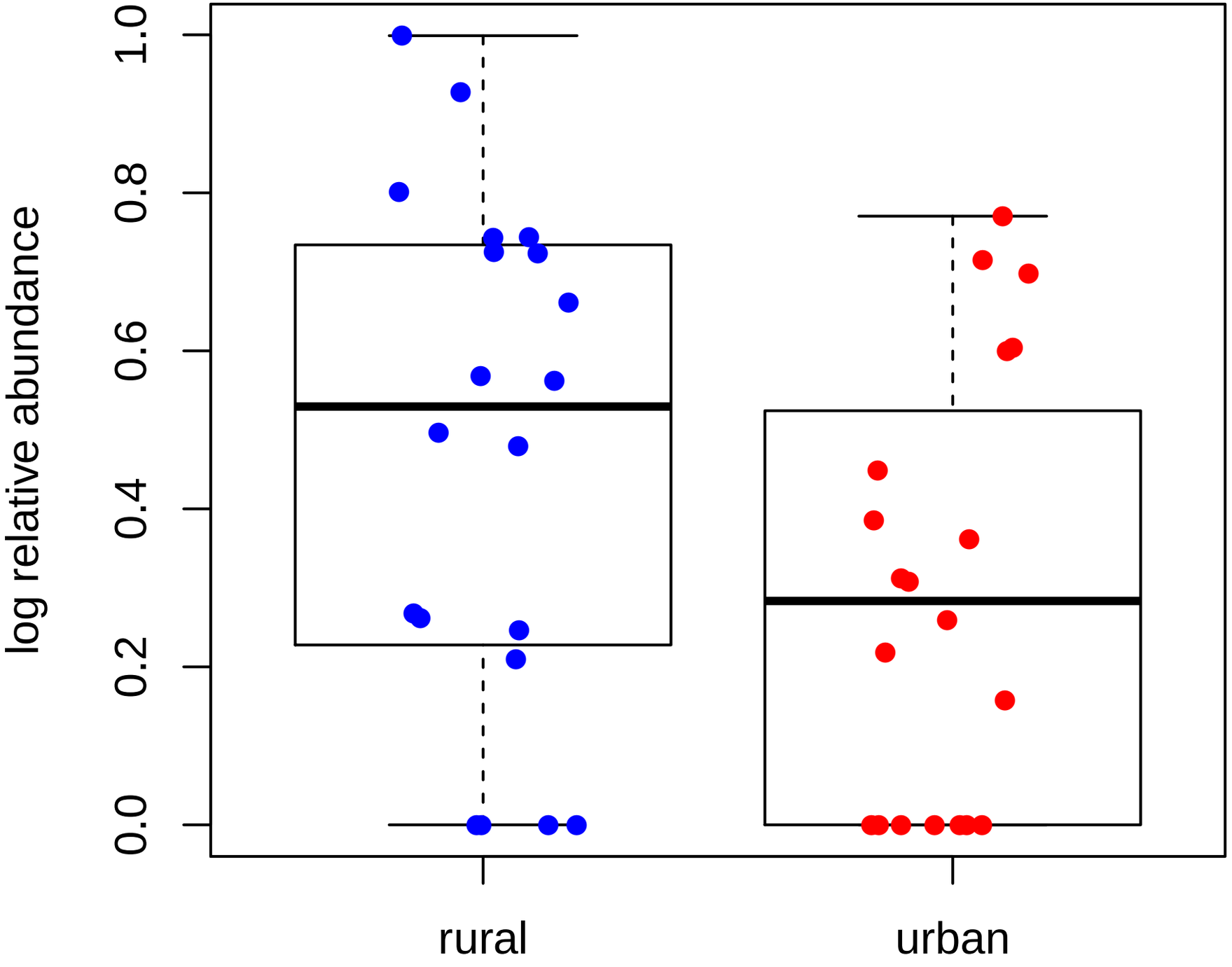

WGS species: Campylobacter_hominis
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

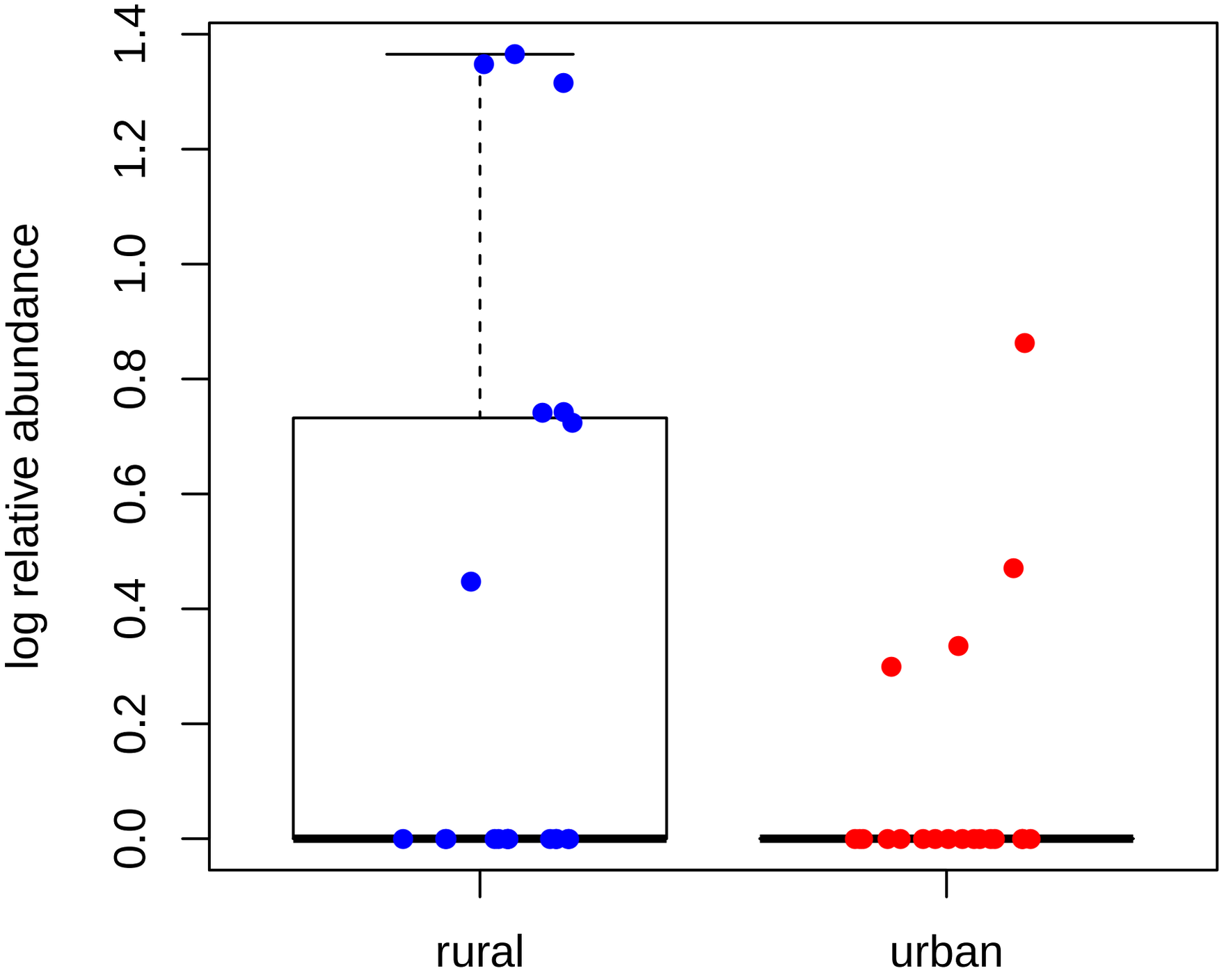

WGS species: Burkholderia_sp._YI23
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

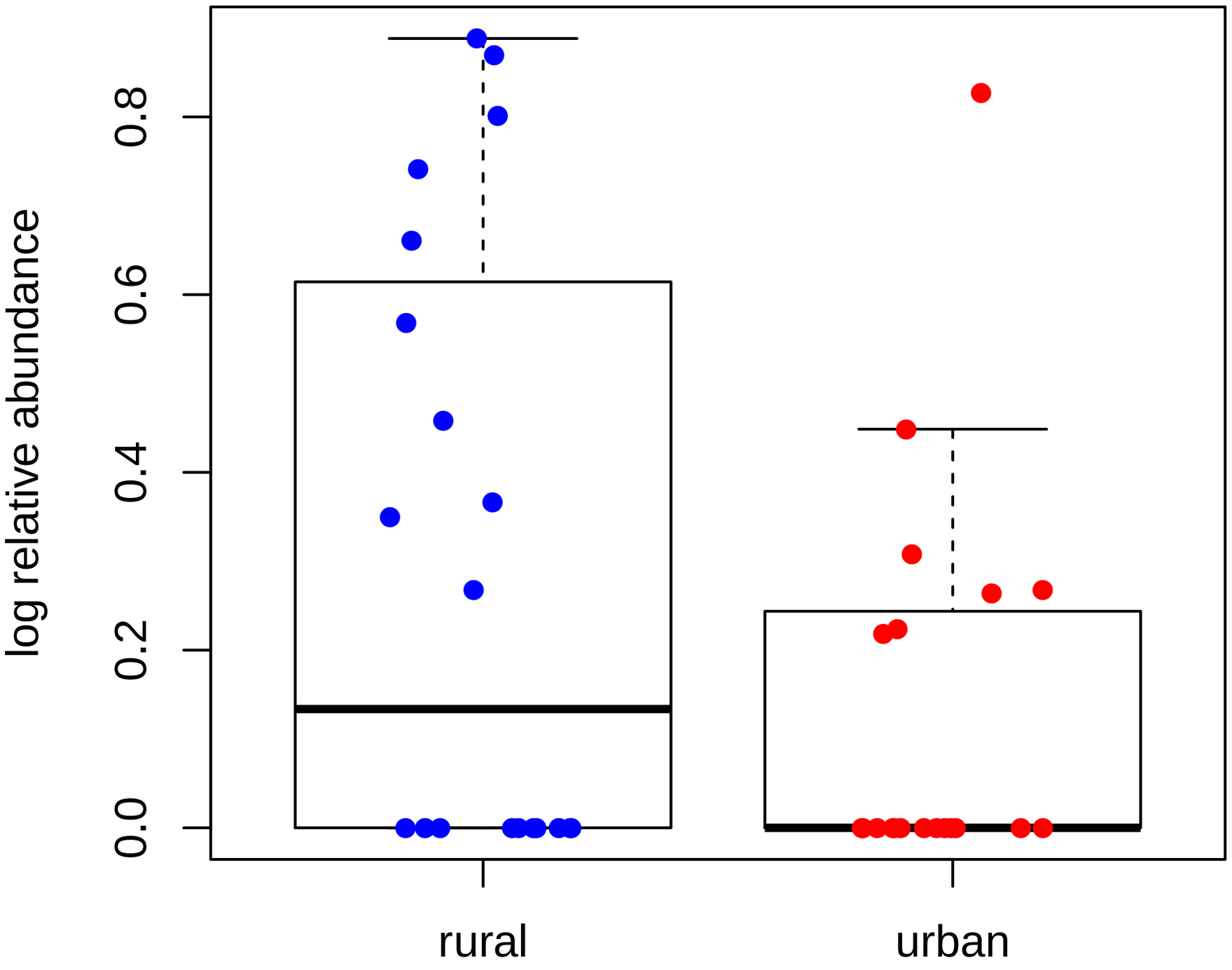

WGS species: Novosphingobium_sp._PP1Y
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

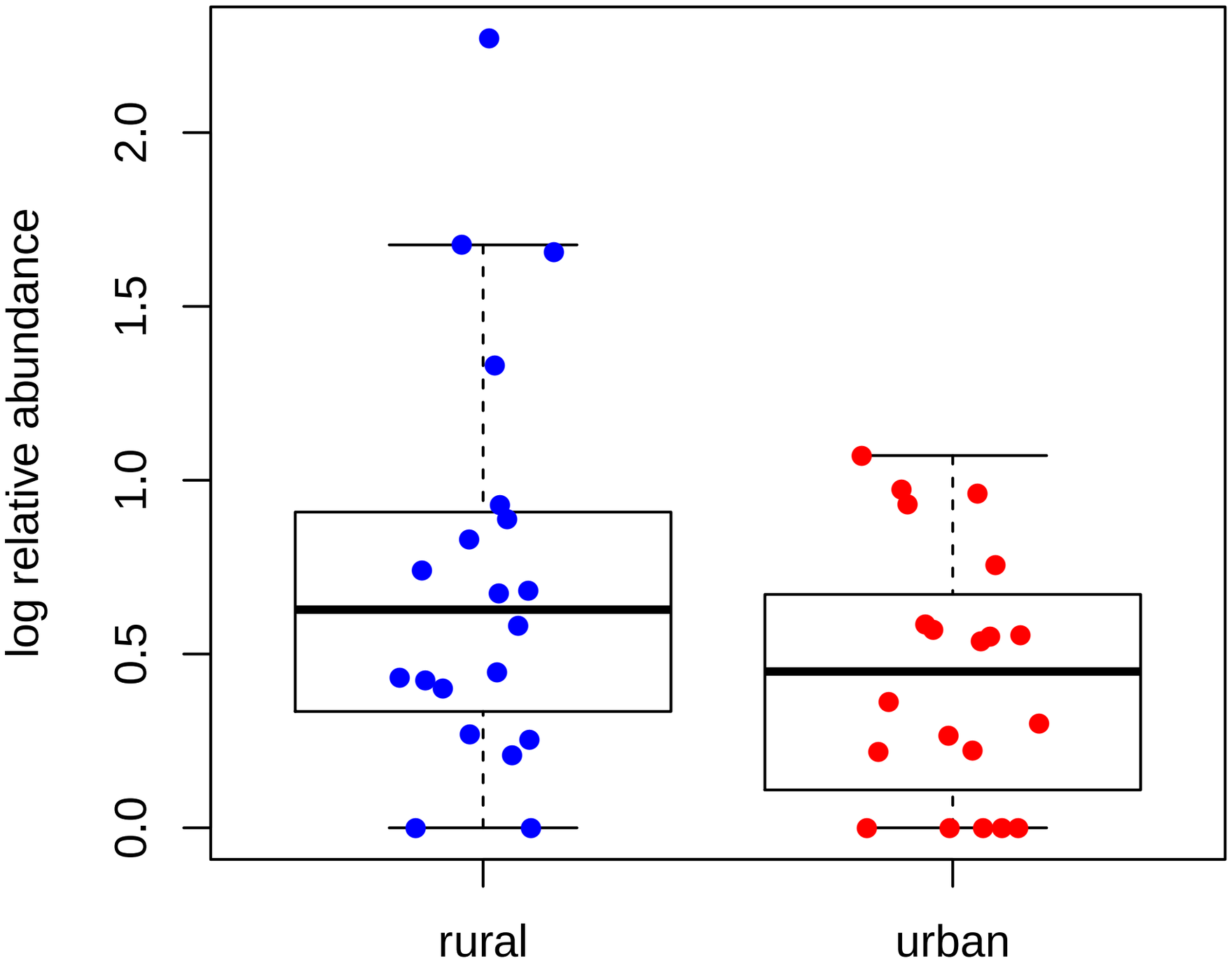

WGS species: Anabaena_sp._90
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

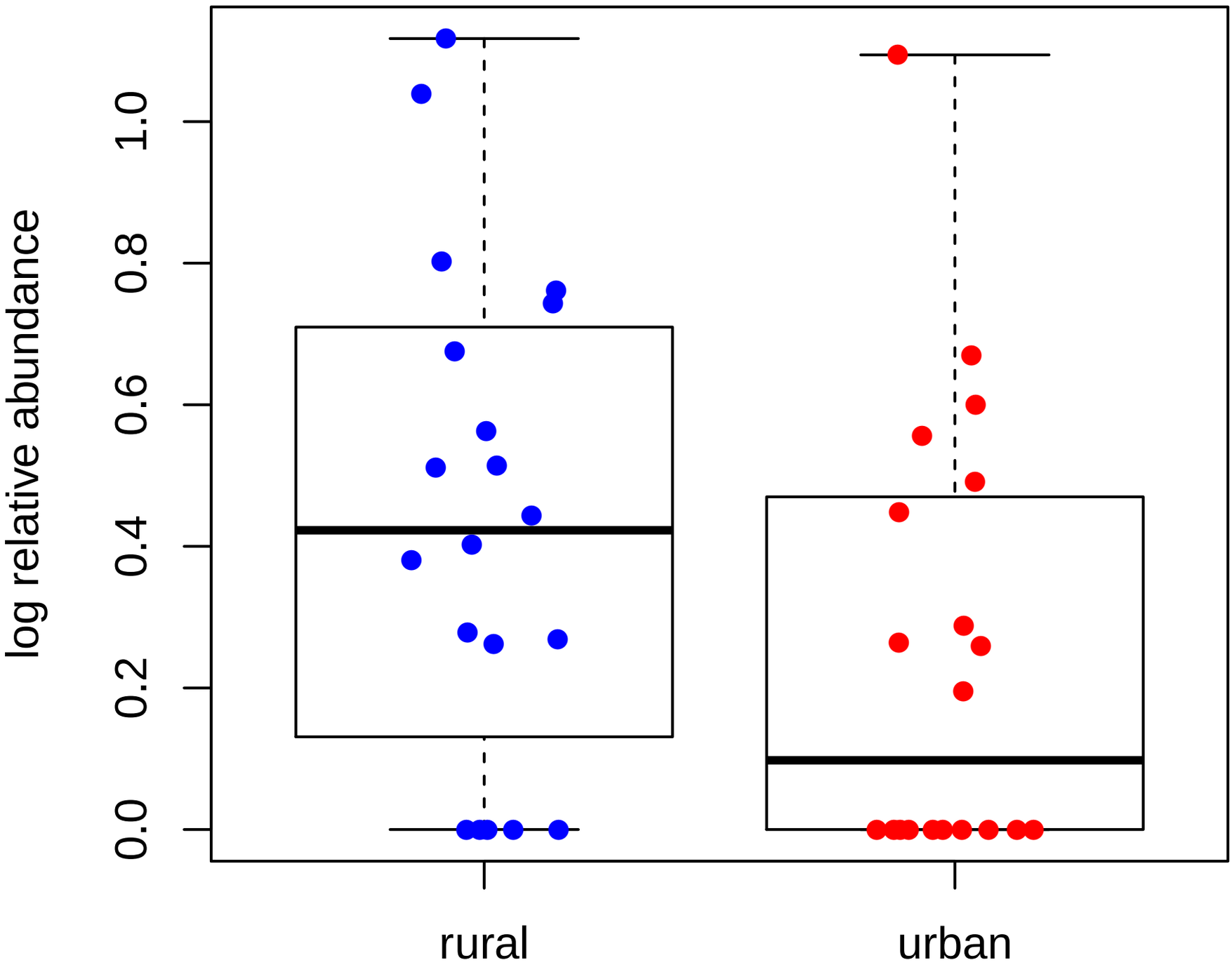

WGS species: Proteus_mirabilis
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

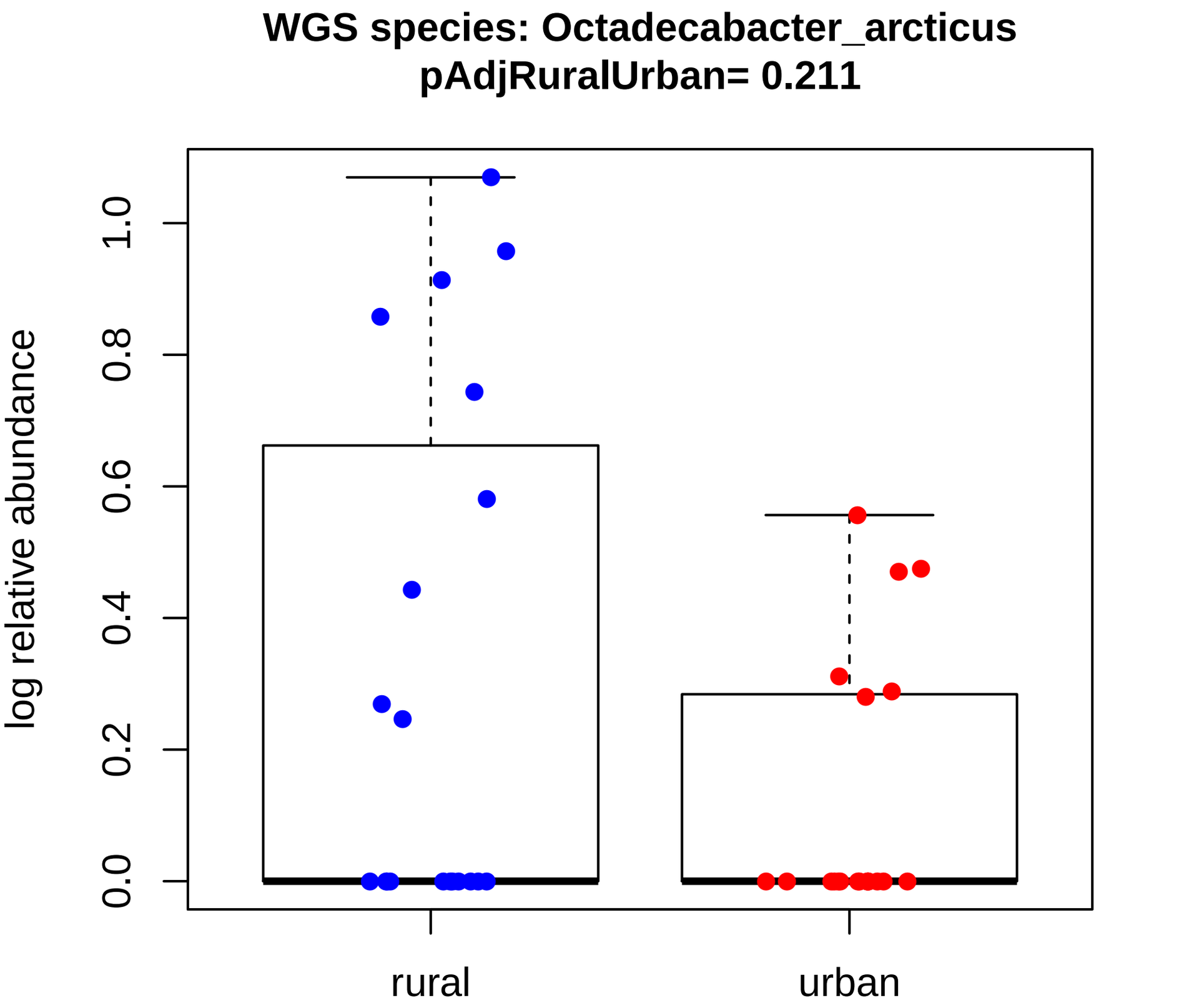

WGS species: Corynebacterium_resistens
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

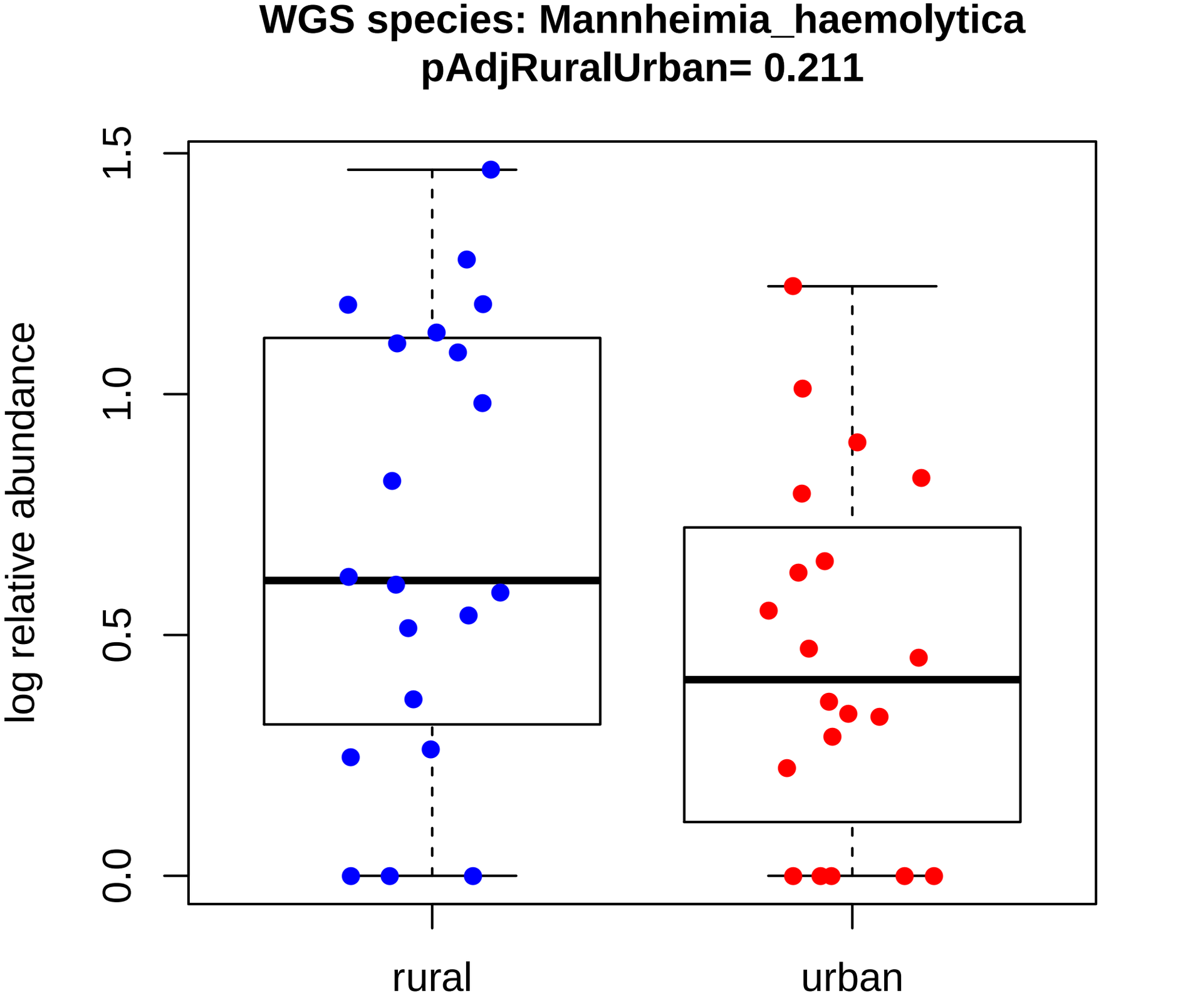

WGS species: Shewanella_oneidensis
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

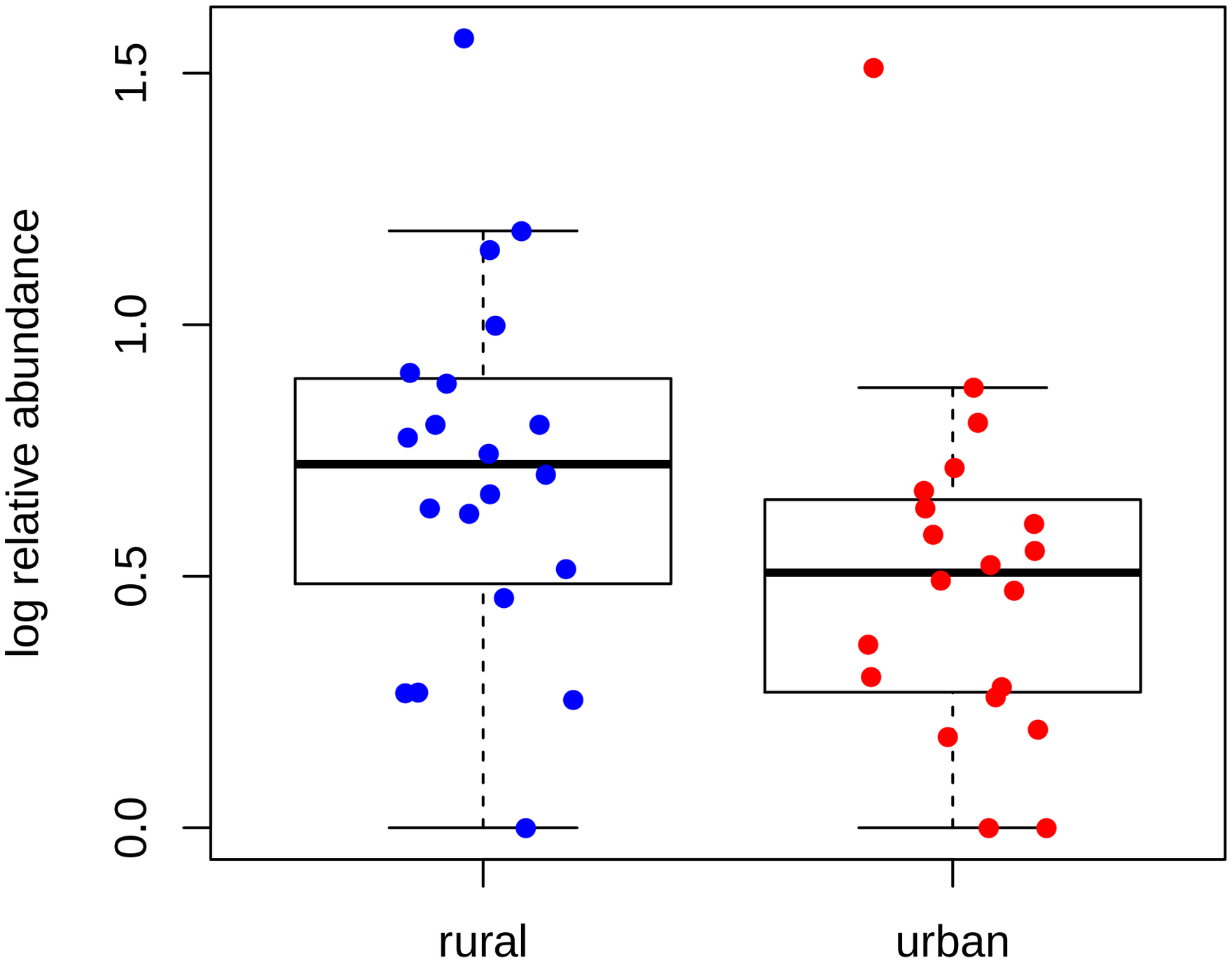

WGS species: Mycoplasma_mycoides
pAdjRuralUrban= 0.208
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

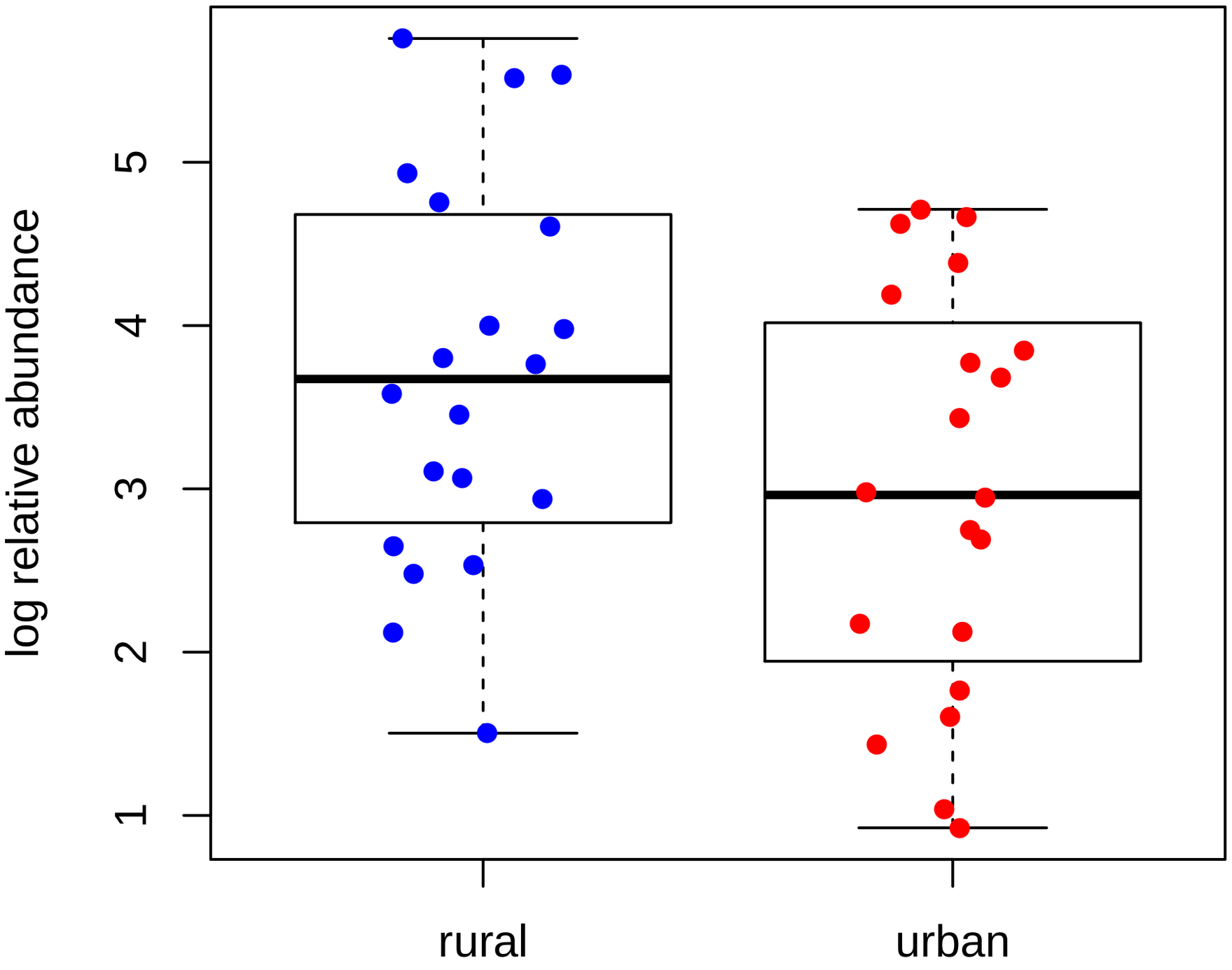

WGS species: Lactobacillus_acidophilus
pAdjRuralUrban= 0.21
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

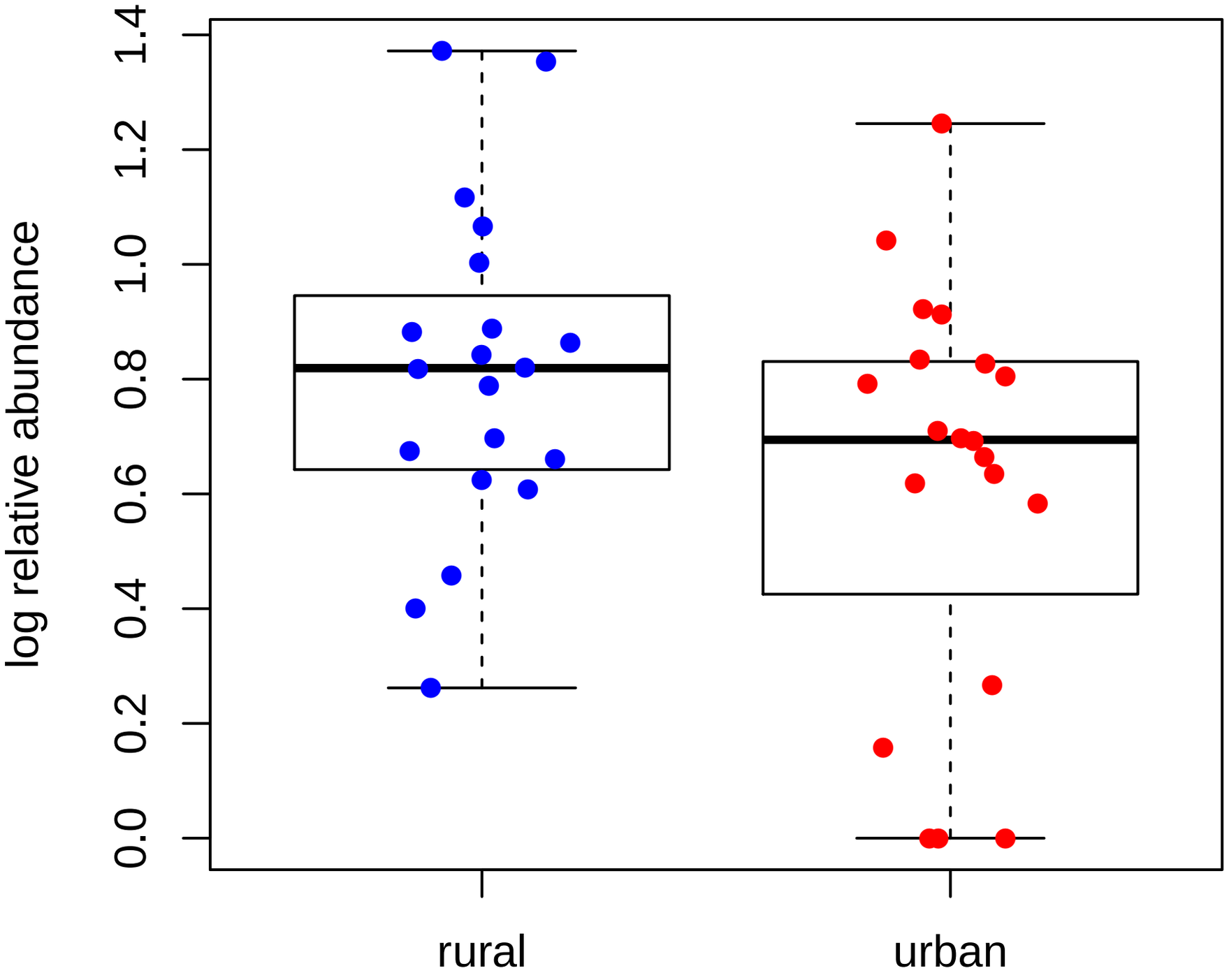

WGS species: Turneriella_parva
pAdjRuralUrban= 0.21
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

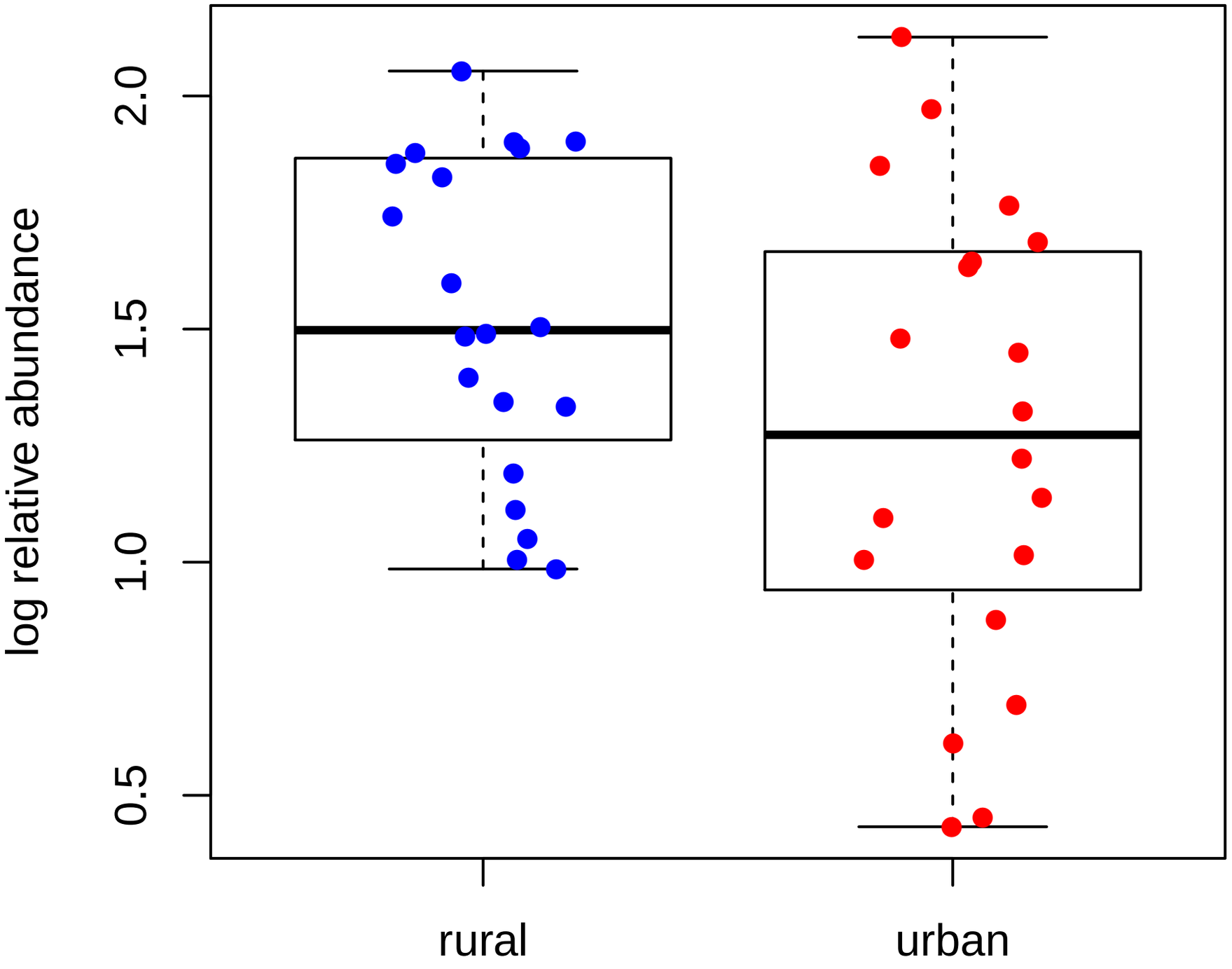

WGS species: Octadecabacter_arcticus
pAdjRuralUrban= 0.211
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

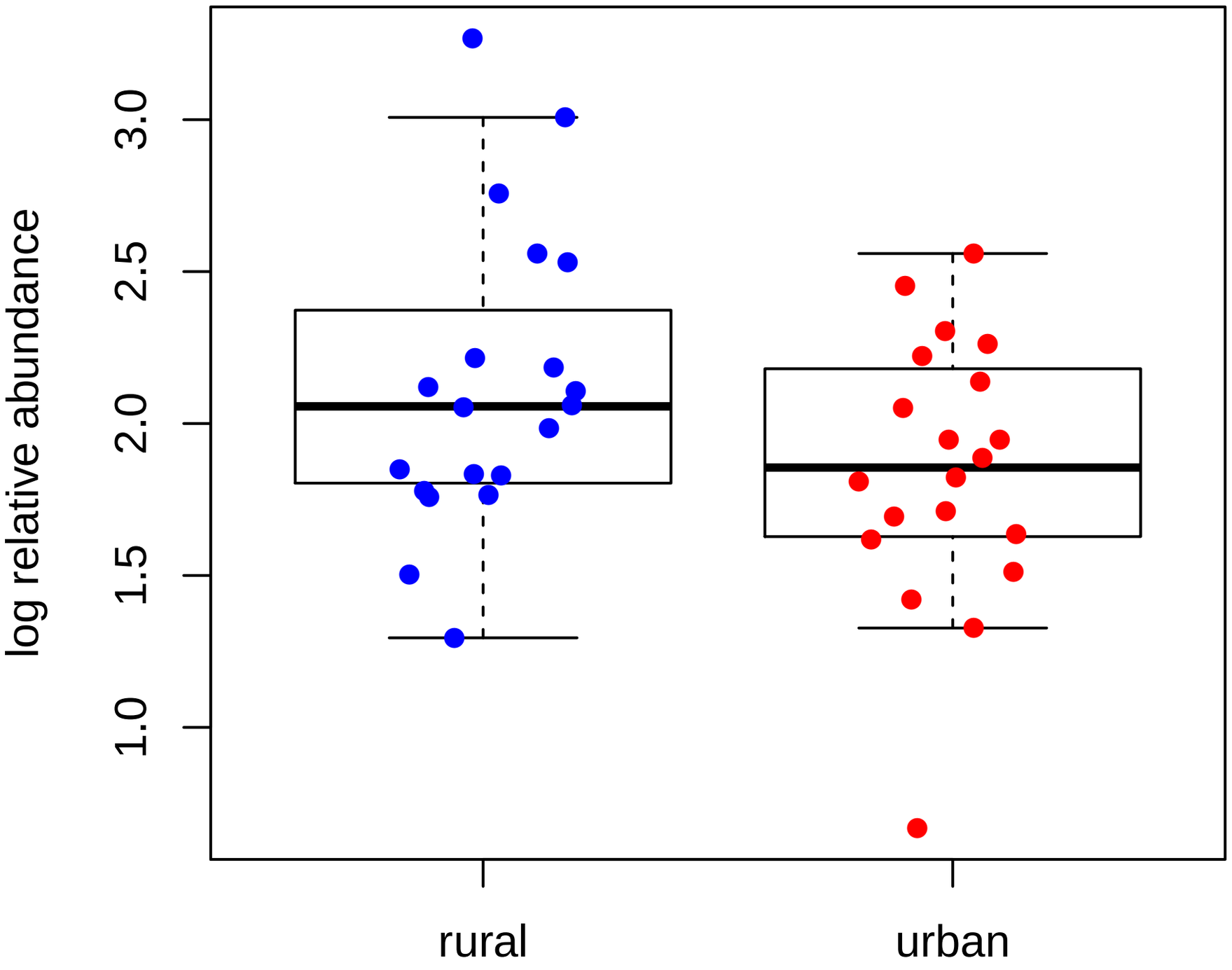

WGS species: Mannheimia_haemolytica
pAdjRuralUrban= 0.211
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

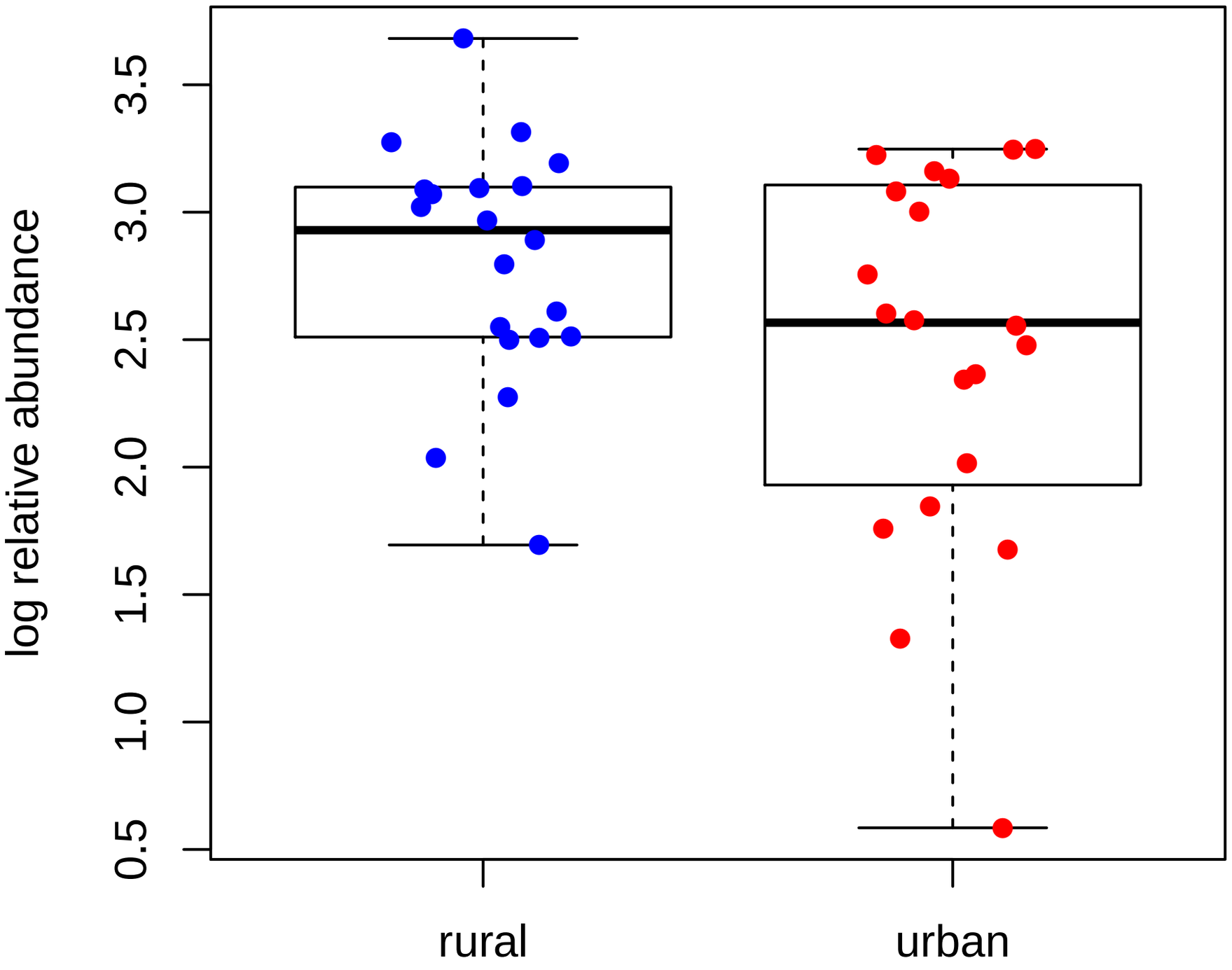

WGS species: Candidatus_Desulforudis_audaxviator
pAdjRuralUrban= 0.211
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

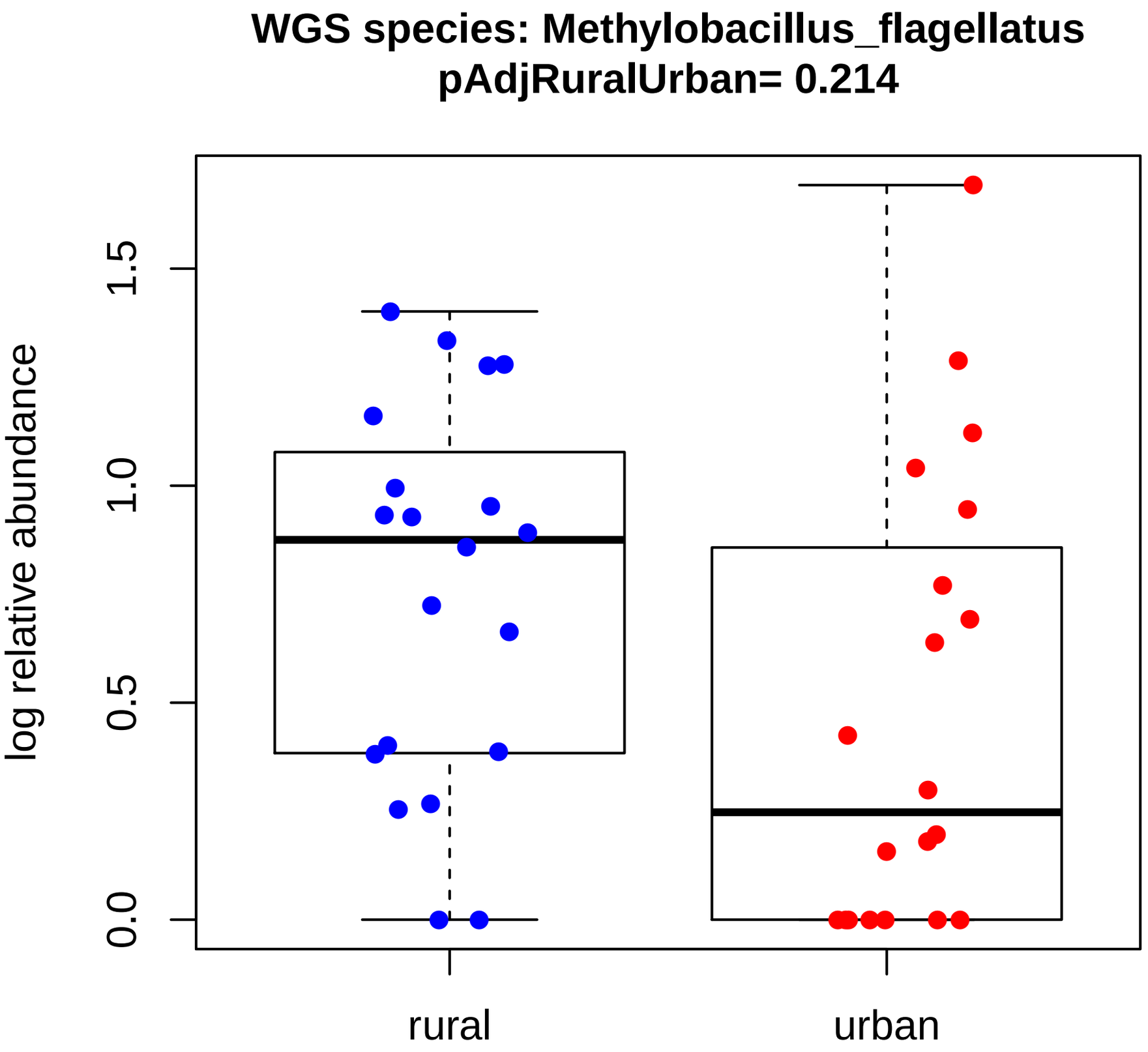

WGS species: Klebsiella_pneumoniae
pAdjRuralUrban= 0.212
log relative abundance
1
2
3
4
5
rural
urban

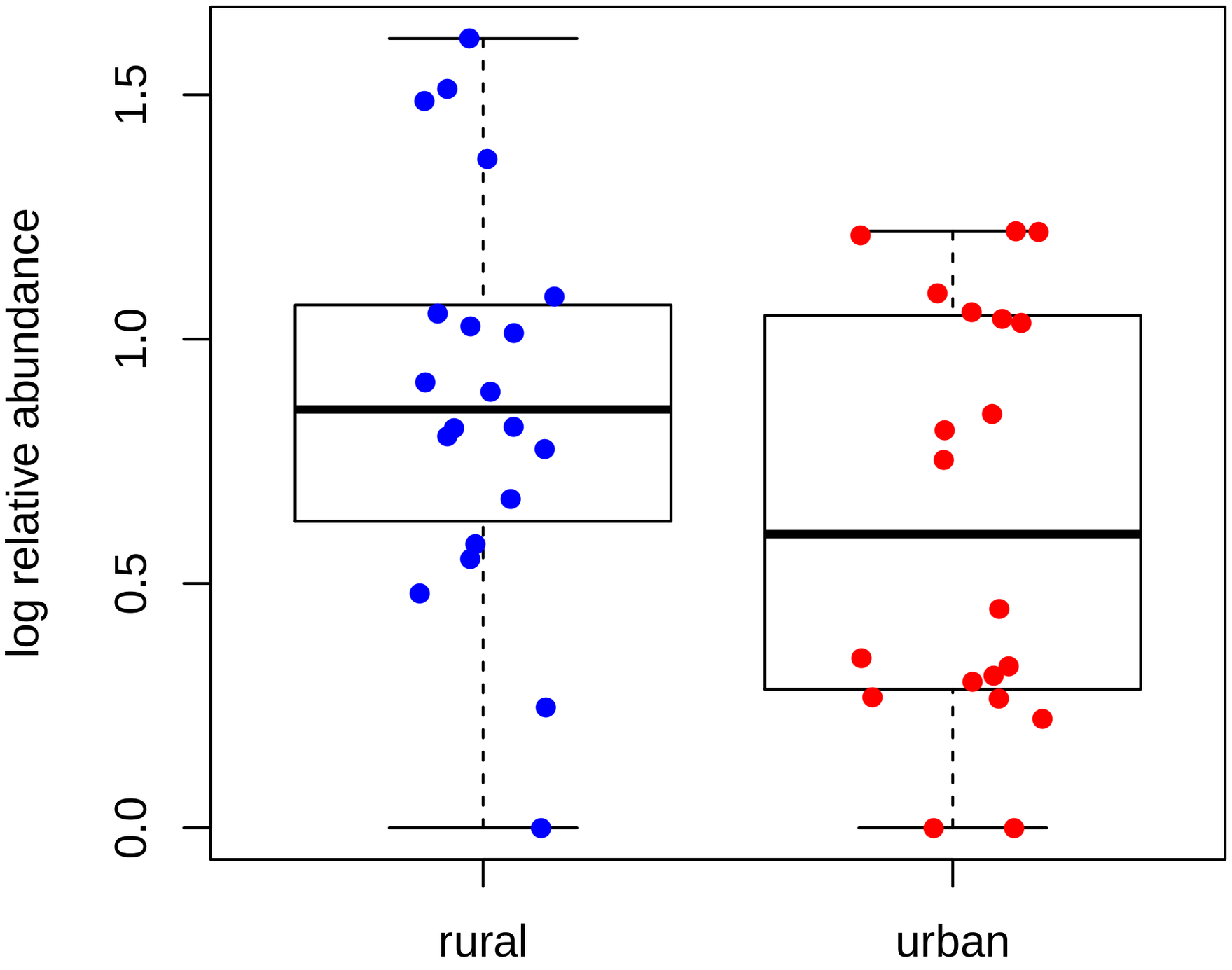

WGS species: Bacillus_thuringiensis
pAdjRuralUrban= 0.212
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

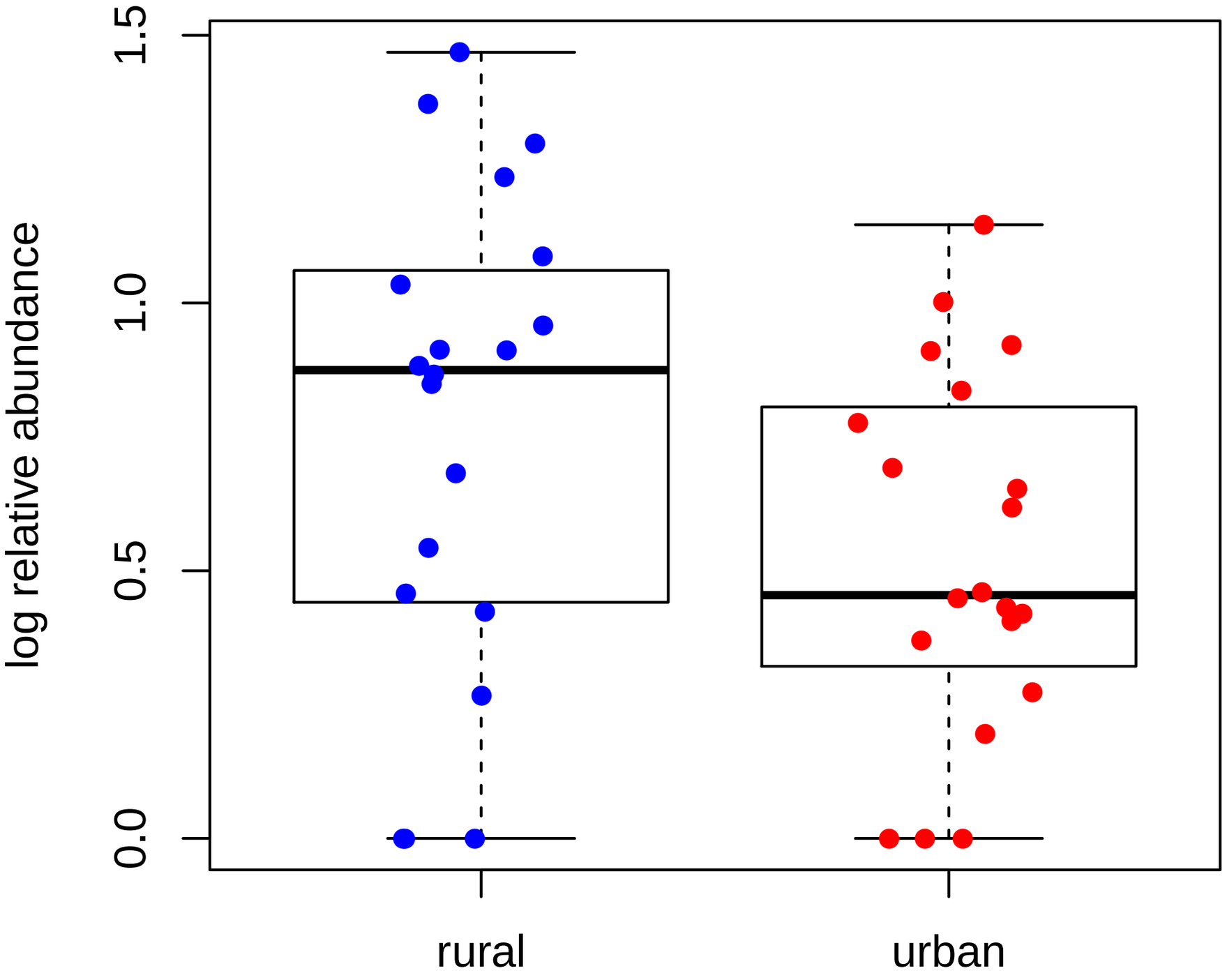

WGS species: Fretibacterium_fastidiosum
pAdjRuralUrban= 0.212
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

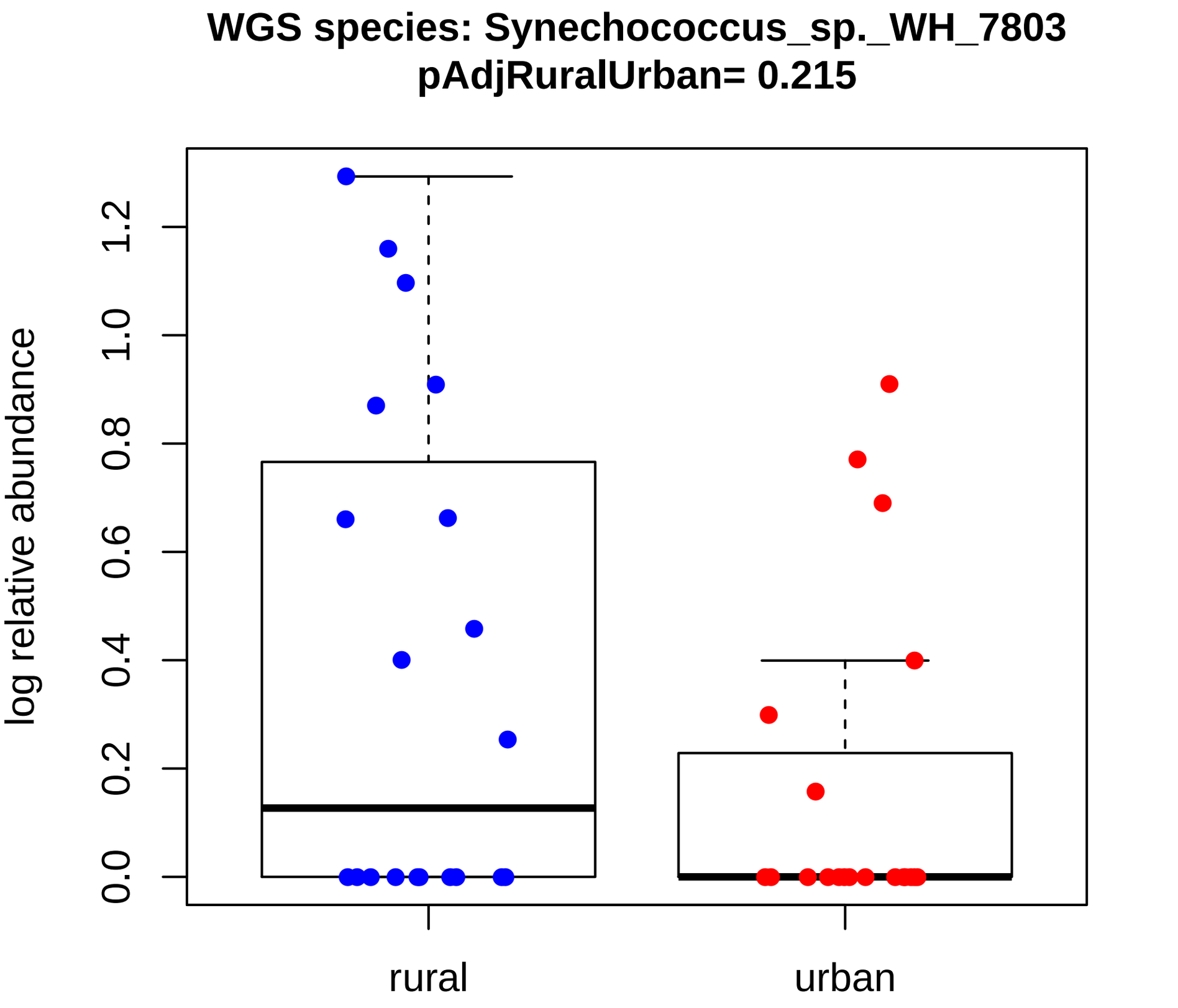

WGS species: Bifidobacterium_breve
pAdjRuralUrban= 0.212
log relative abundance
1.0
1.5
2.0
2.5
3.0
rural
urban

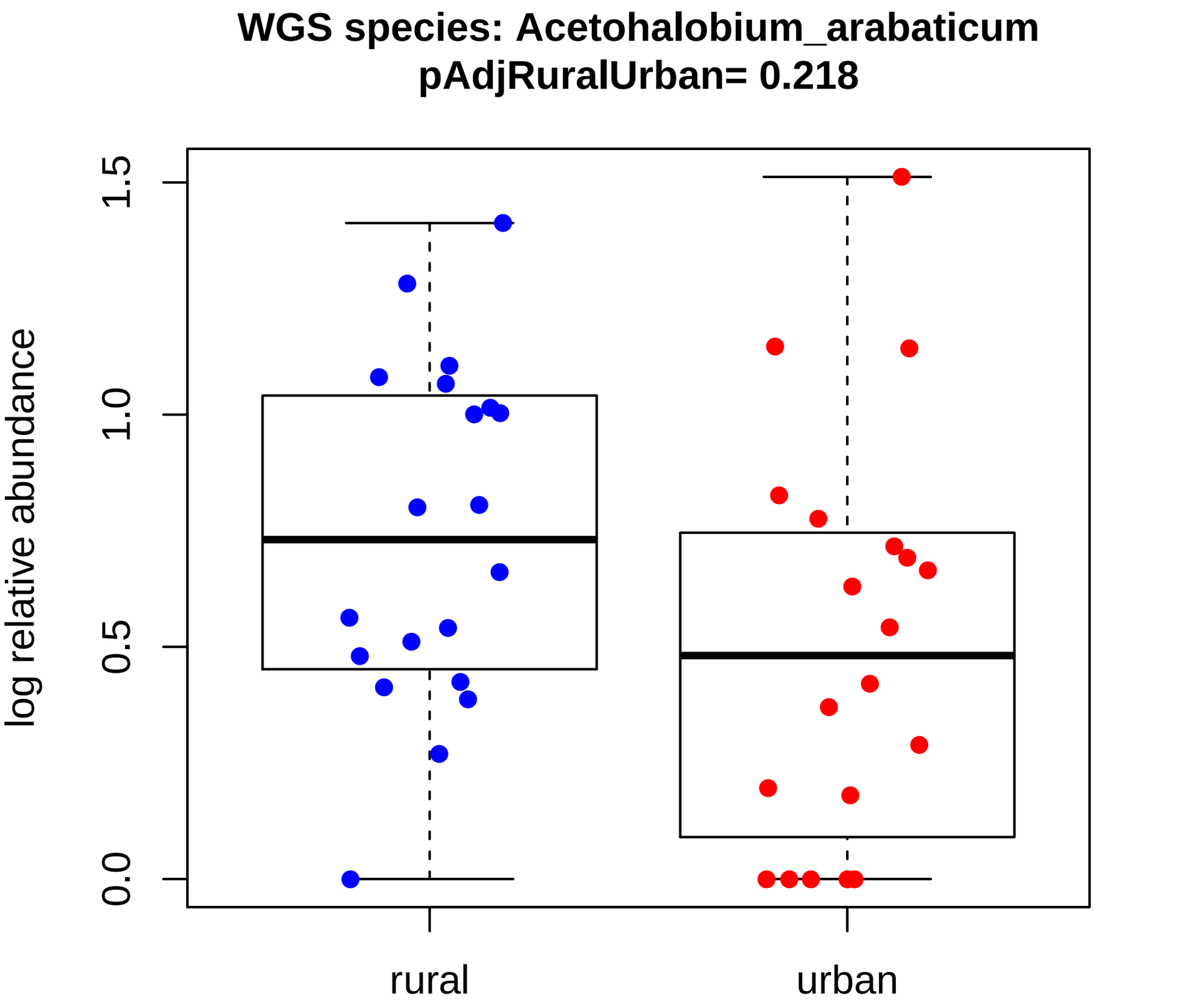

WGS species: Gordonibacter_pamelaeae
pAdjRuralUrban= 0.214
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

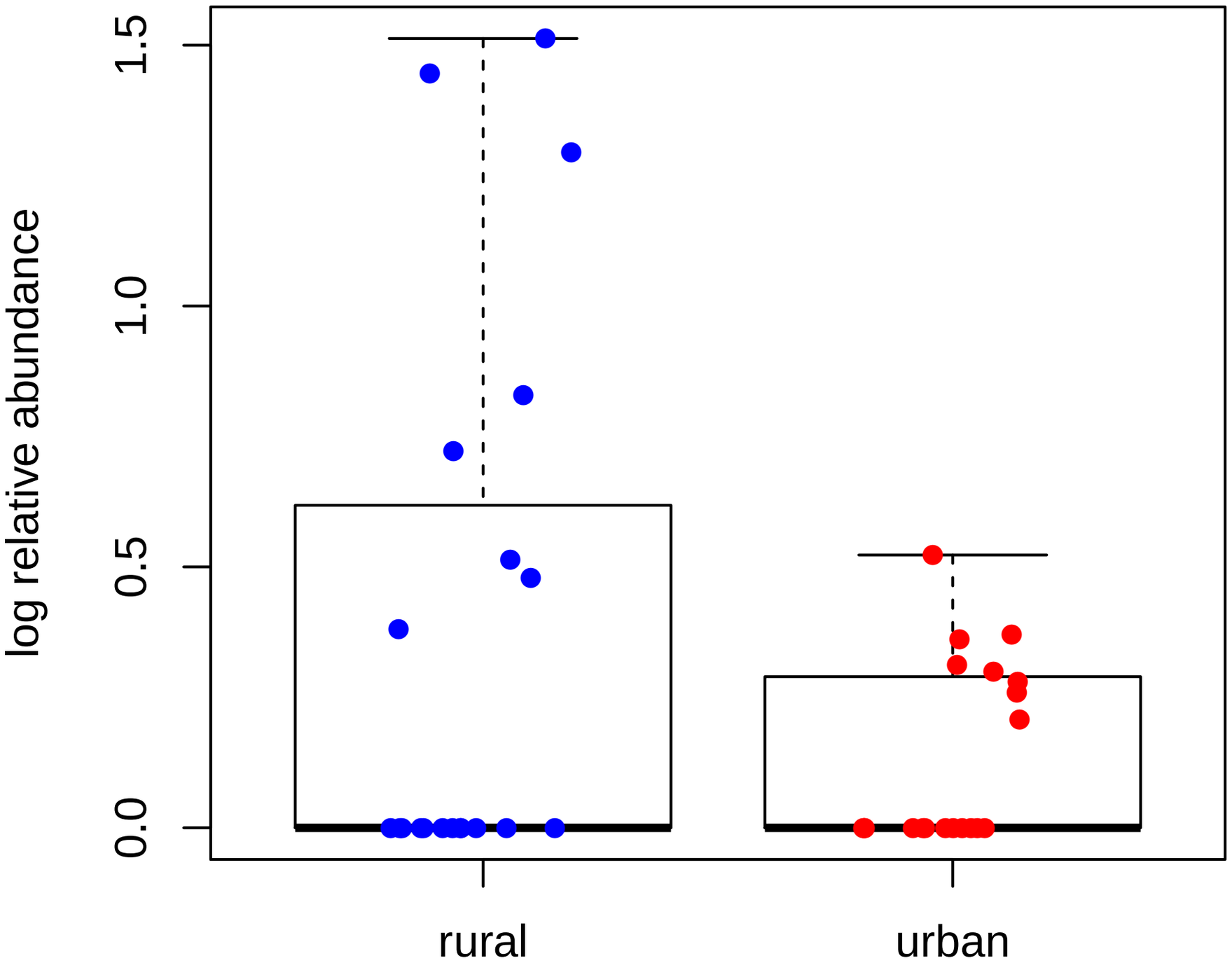

WGS species: Methylobacillus_flagellatus
pAdjRuralUrban= 0.214
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

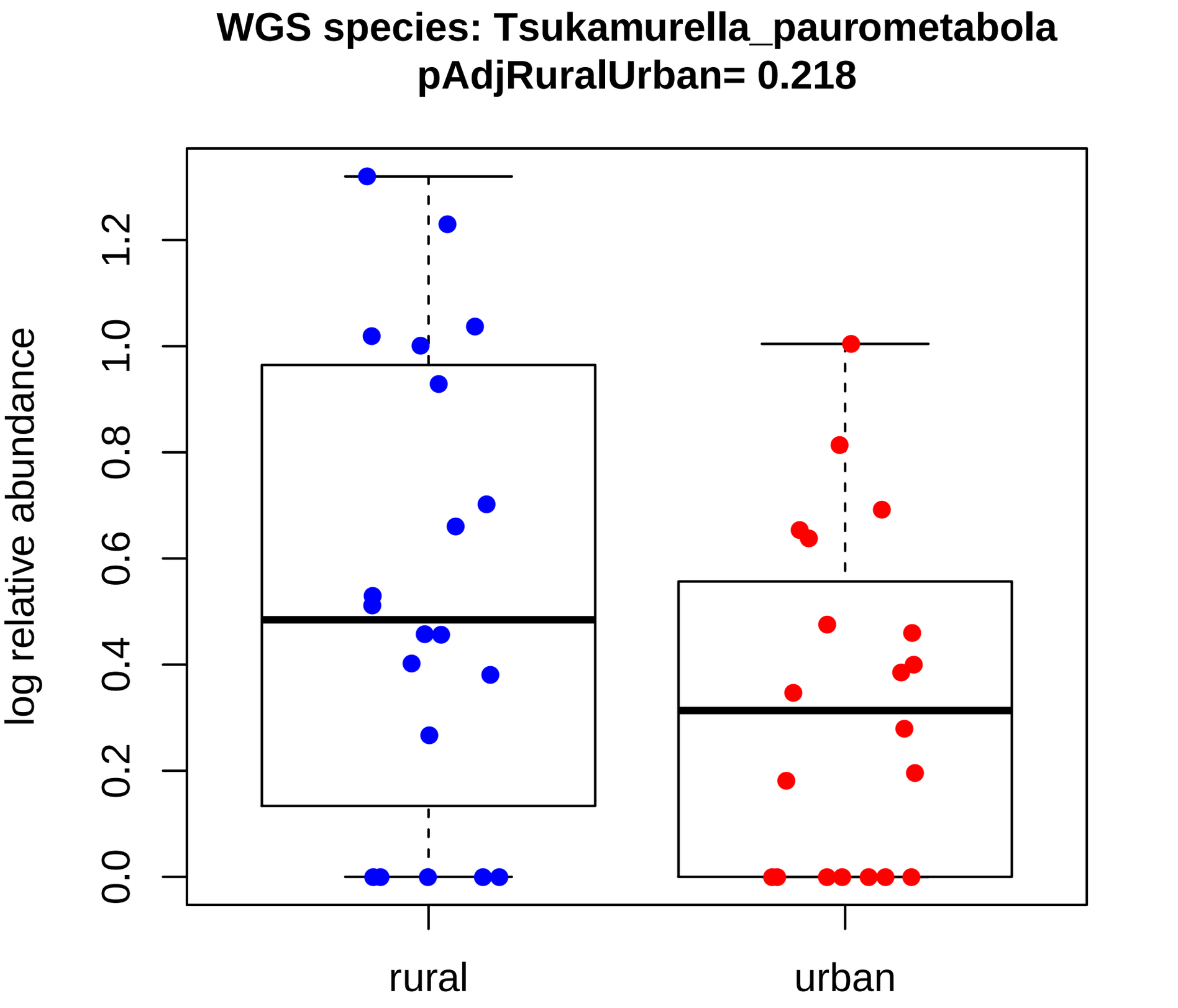

WGS species: Gottschalkia_acidurici
pAdjRuralUrban= 0.214
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

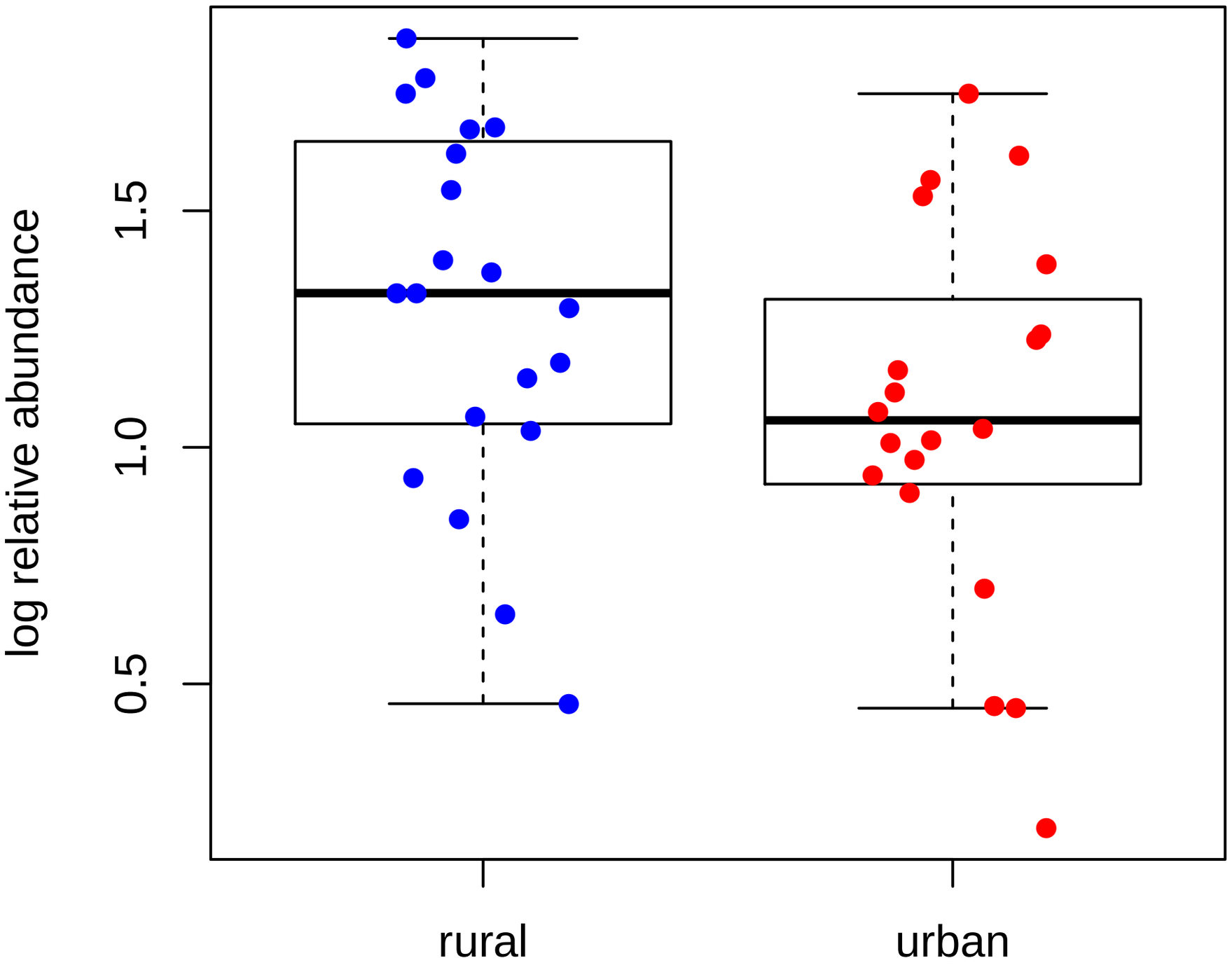

WGS species: Xylanimonas_cellulosilytica
pAdjRuralUrban= 0.214
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

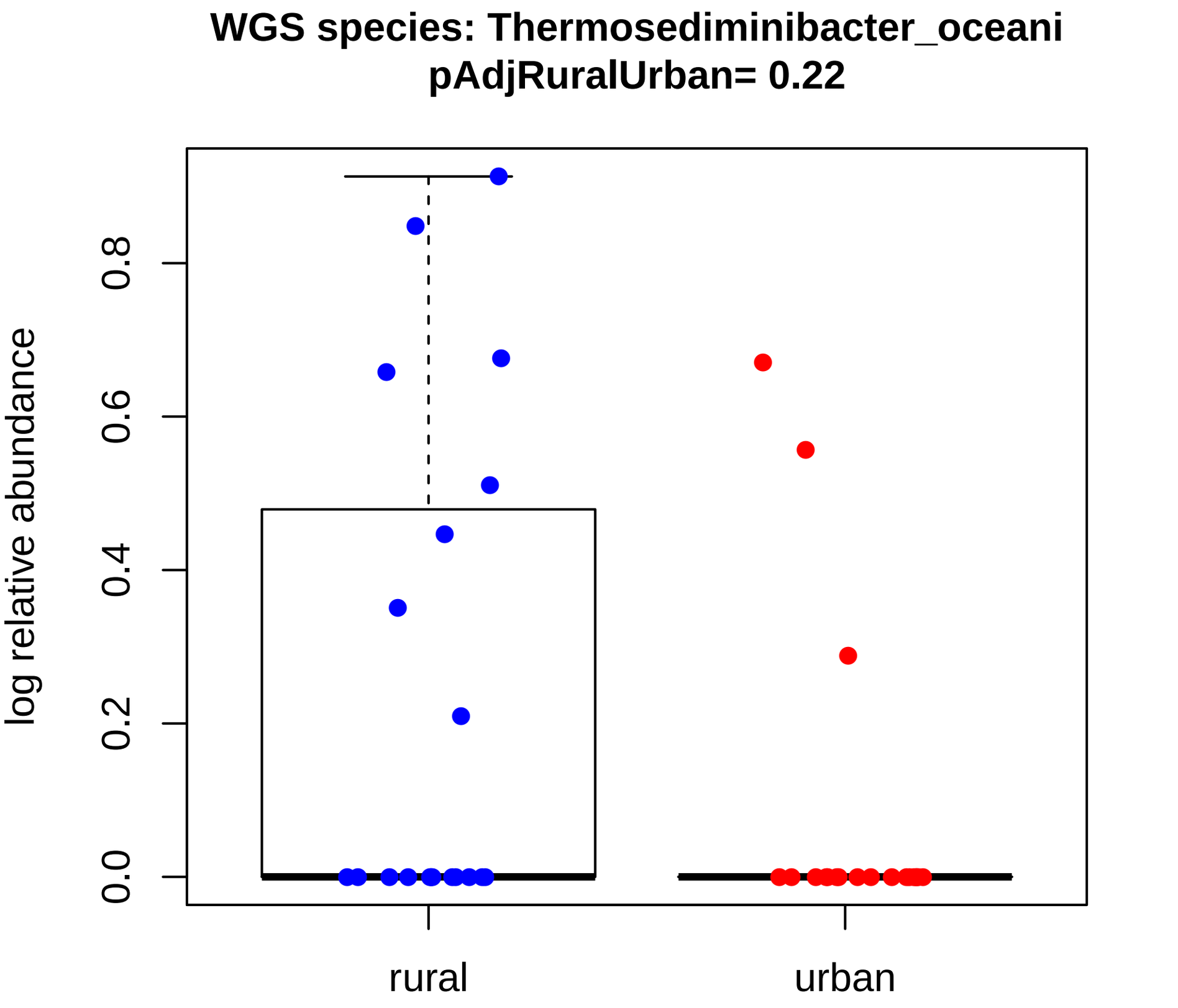

WGS species: Synechococcus_sp._WH_7803
pAdjRuralUrban= 0.215
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

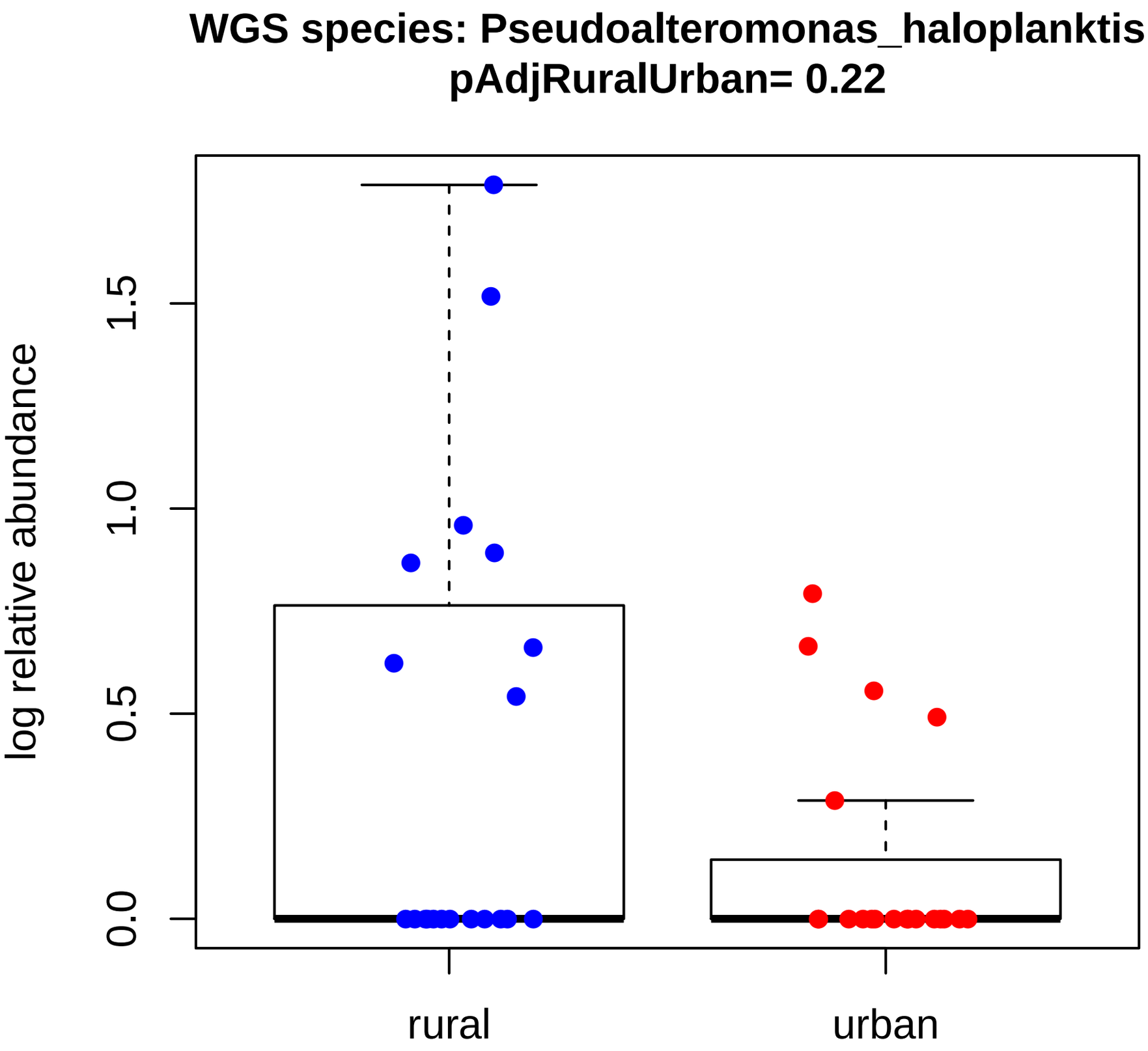

WGS species: Acetohalobium_arabaticum
pAdjRuralUrban= 0.218
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

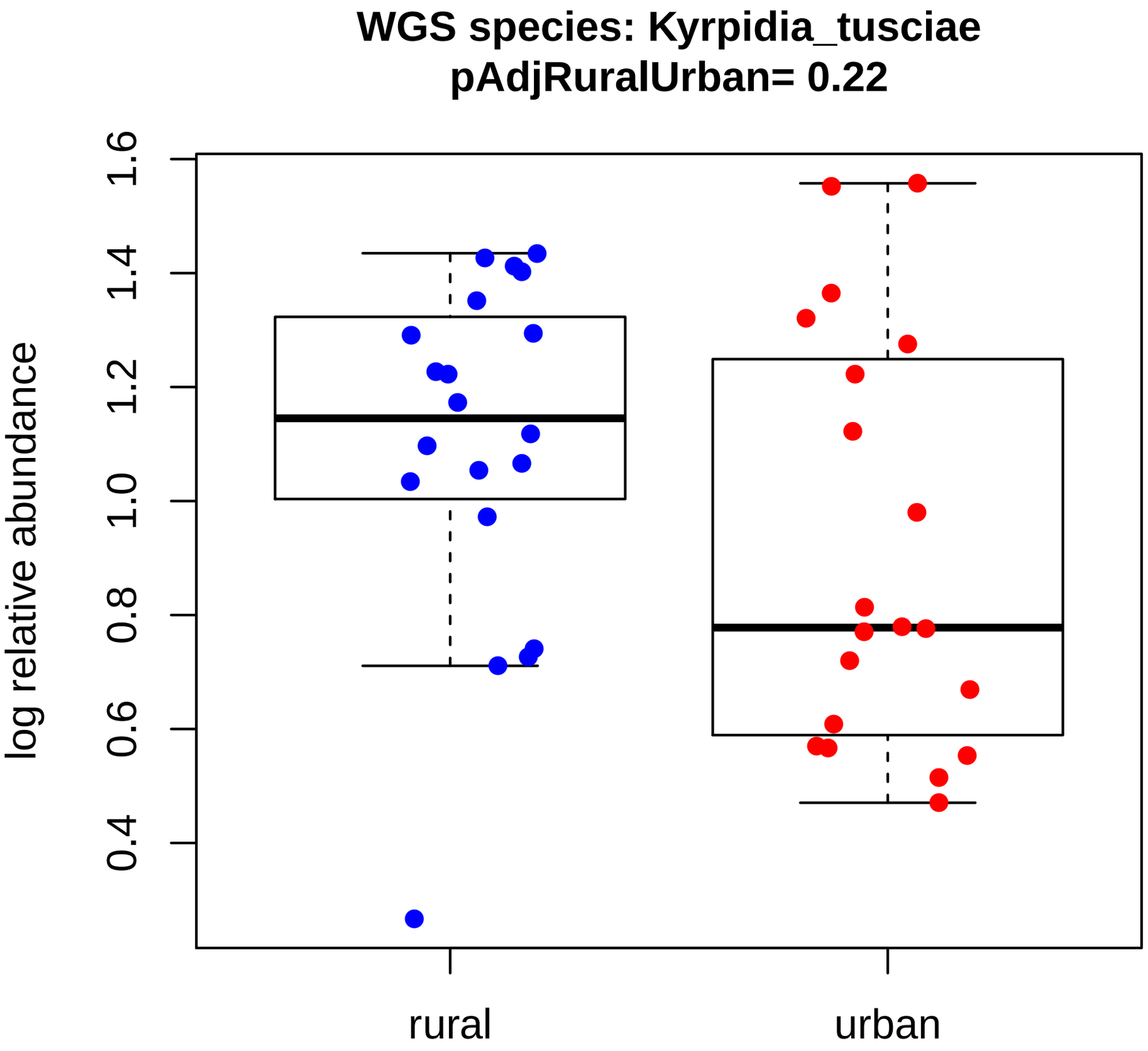

WGS species: Terriglobus_saanensis
pAdjRuralUrban= 0.218
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

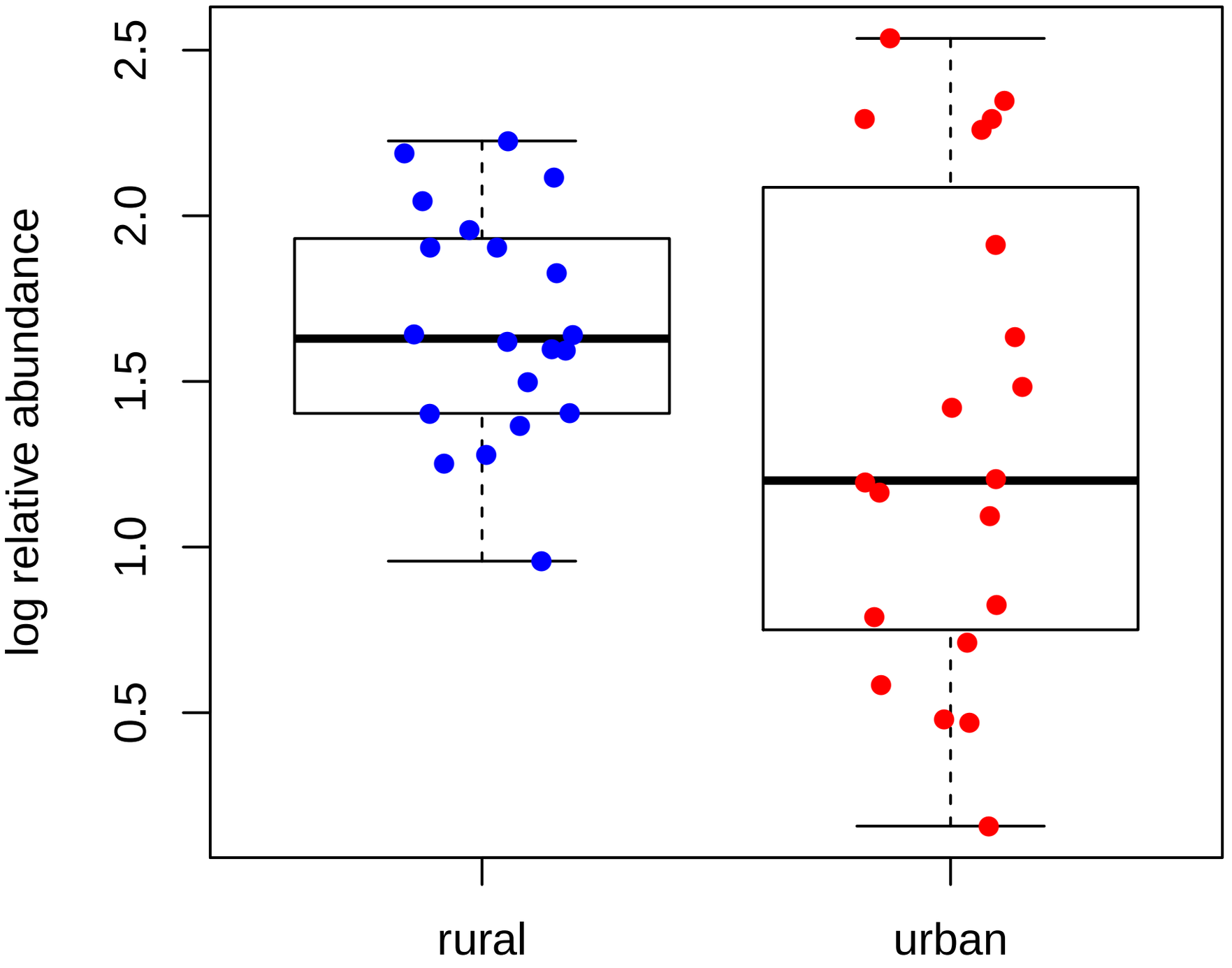

WGS species: Tsukamurella_paurometabola
pAdjRuralUrban= 0.218
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

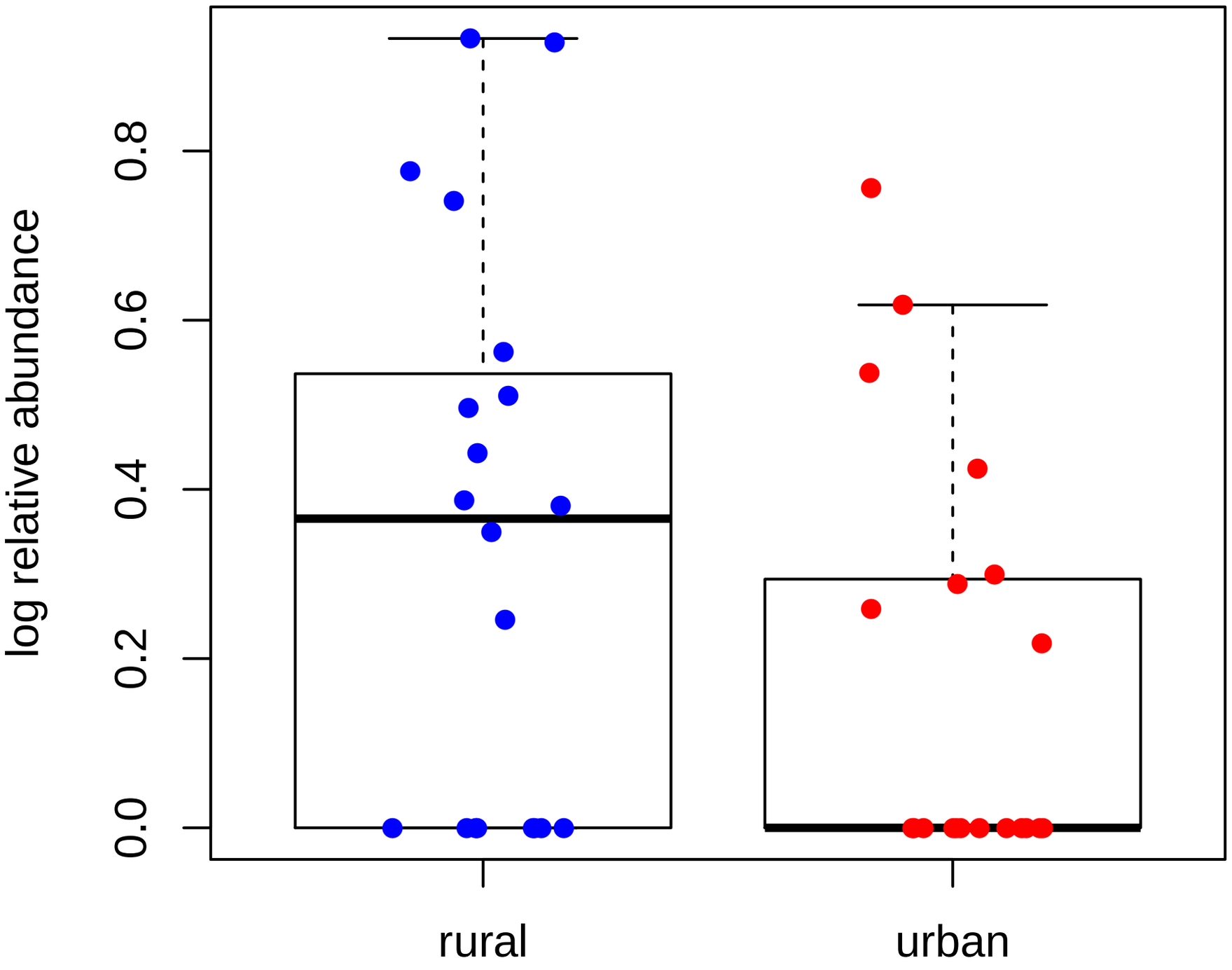

WGS species: Clostridium_pasteurianum
pAdjRuralUrban= 0.218
log relative abundance
0.5
1.0
1.5
rural
urban

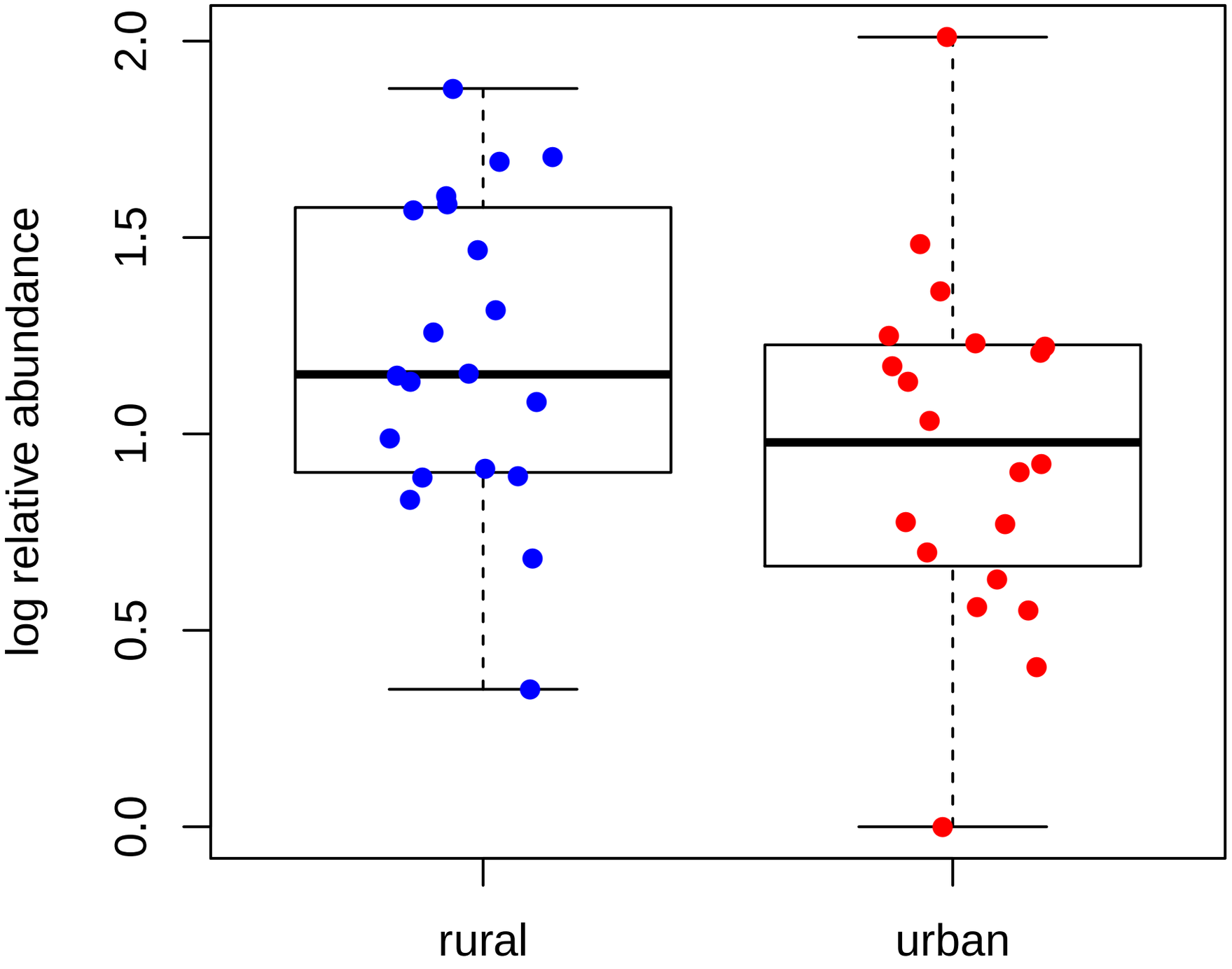

WGS species: Thermosediminibacter_oceani
pAdjRuralUrban= 0.22
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

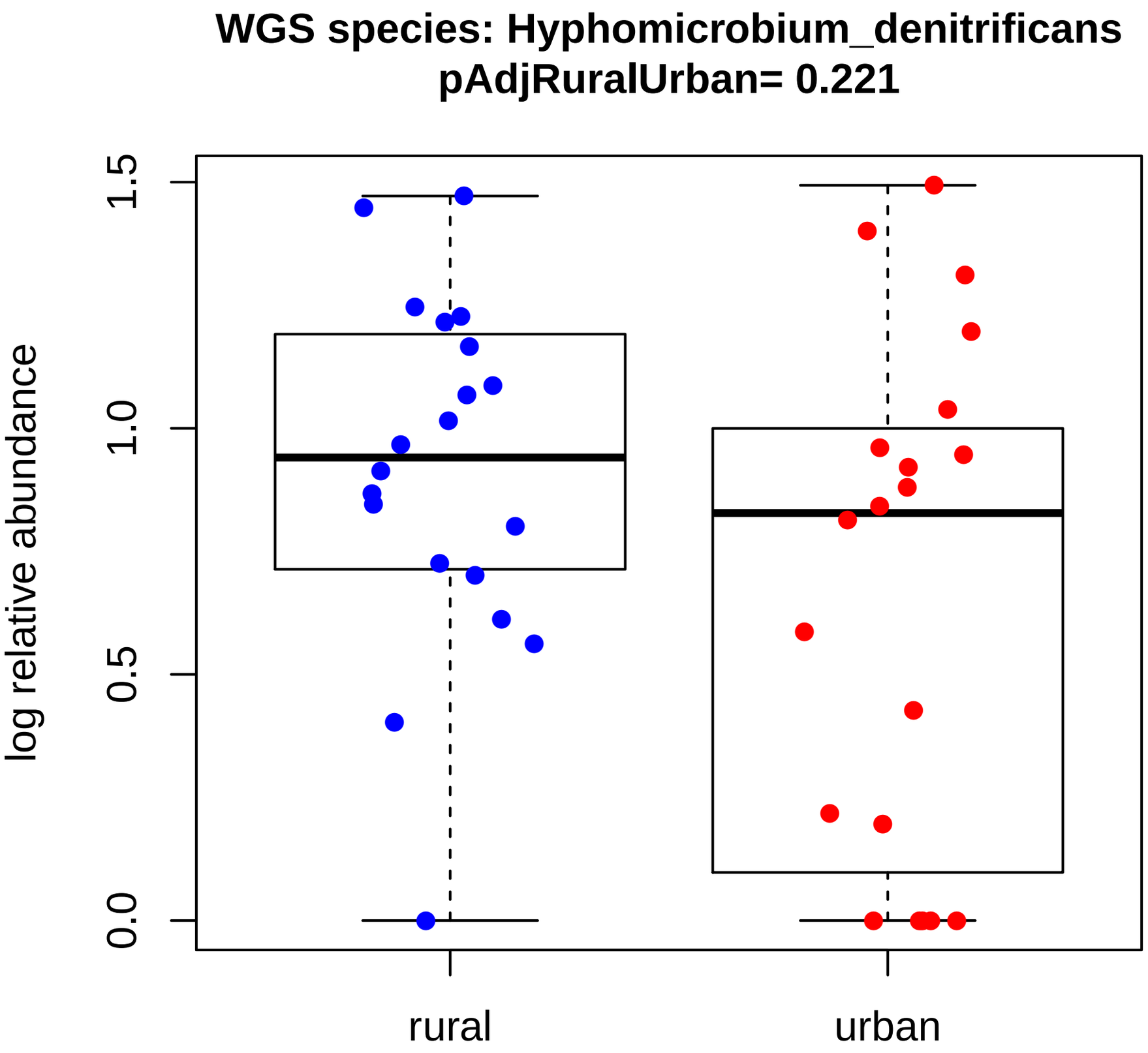

WGS species: Pseudoalteromonas_haloplanktis
pAdjRuralUrban= 0.22
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

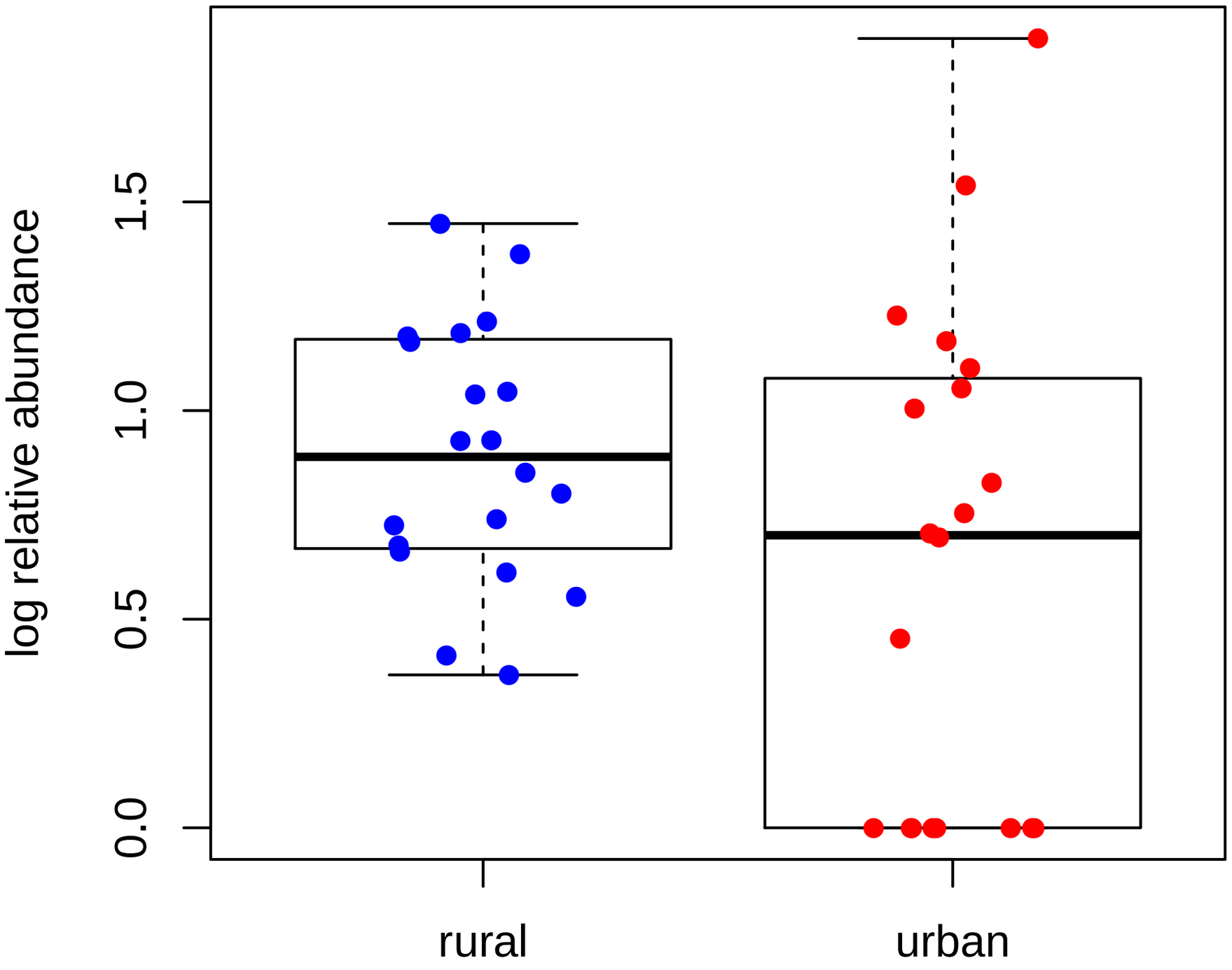

WGS species: Kyrpidia_tusciae
pAdjRuralUrban= 0.22
log relative abundance
0.4
0.6
0.8
1.0
1.2
1.4
1.6
rural
urban

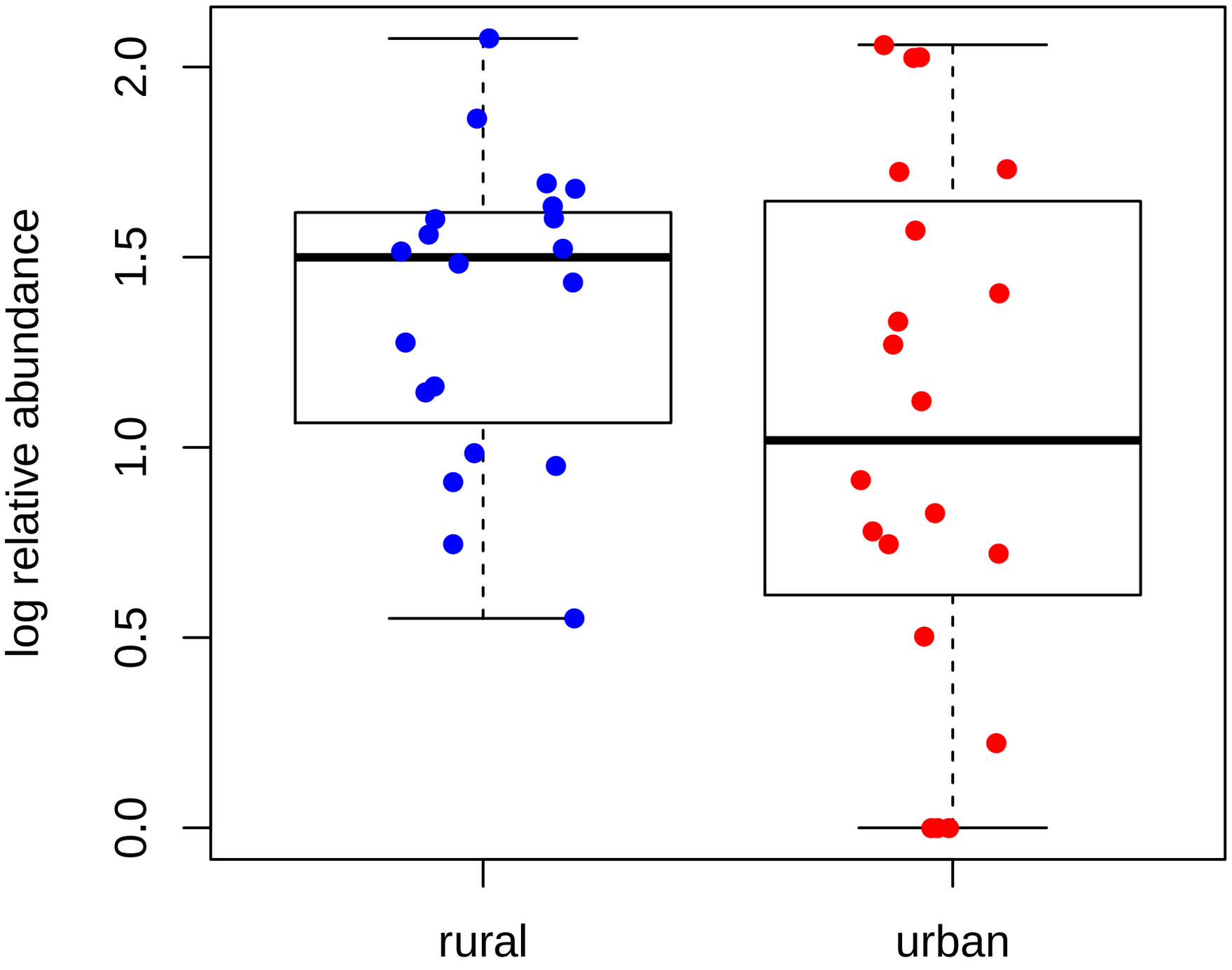

WGS species: Desulfotomaculum_kuznetsovii
pAdjRuralUrban= 0.22
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

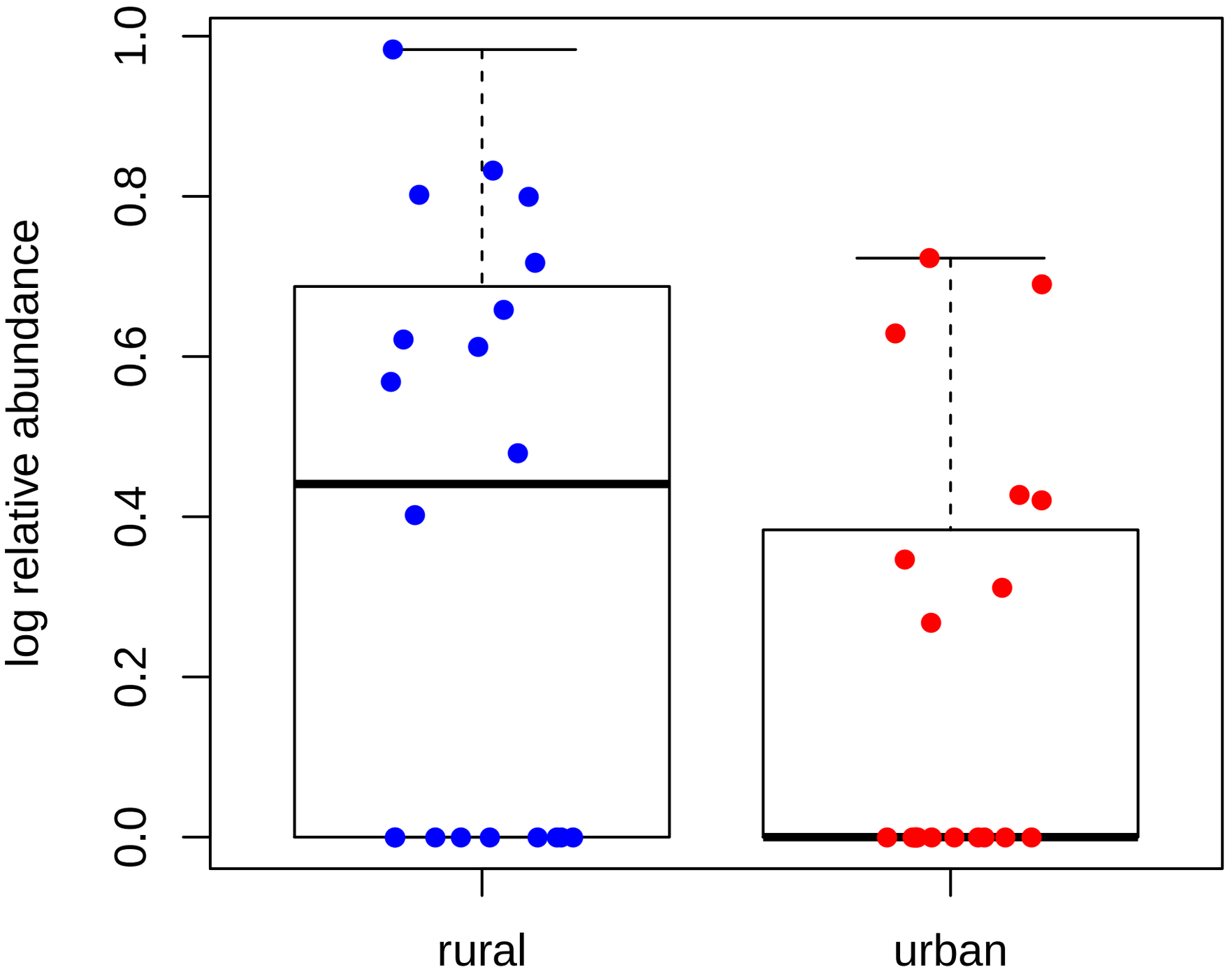

WGS species: Rivularia_sp._PCC_7116
pAdjRuralUrban= 0.221
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

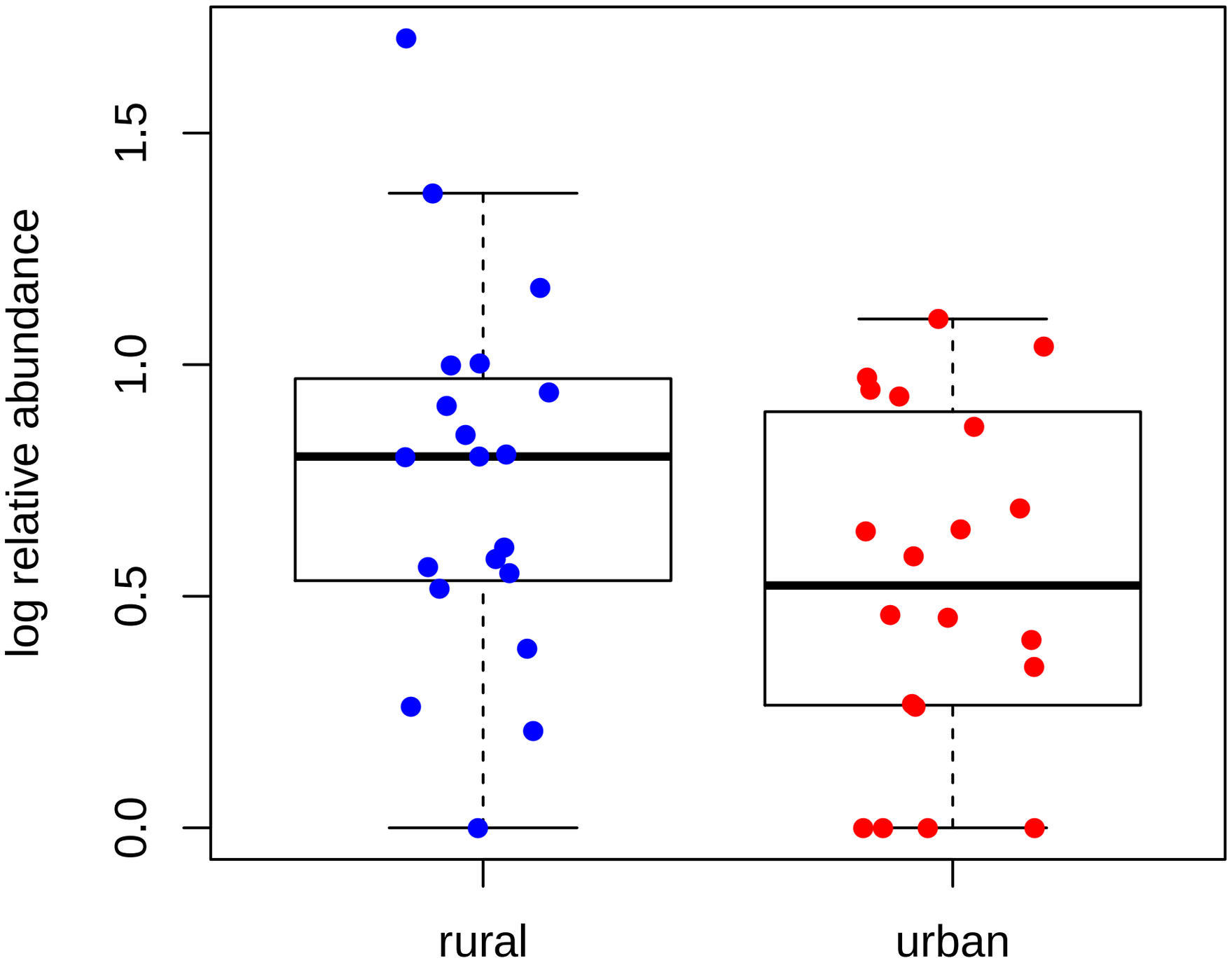

WGS species: Magnetospirillum_magneticum
pAdjRuralUrban= 0.221
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

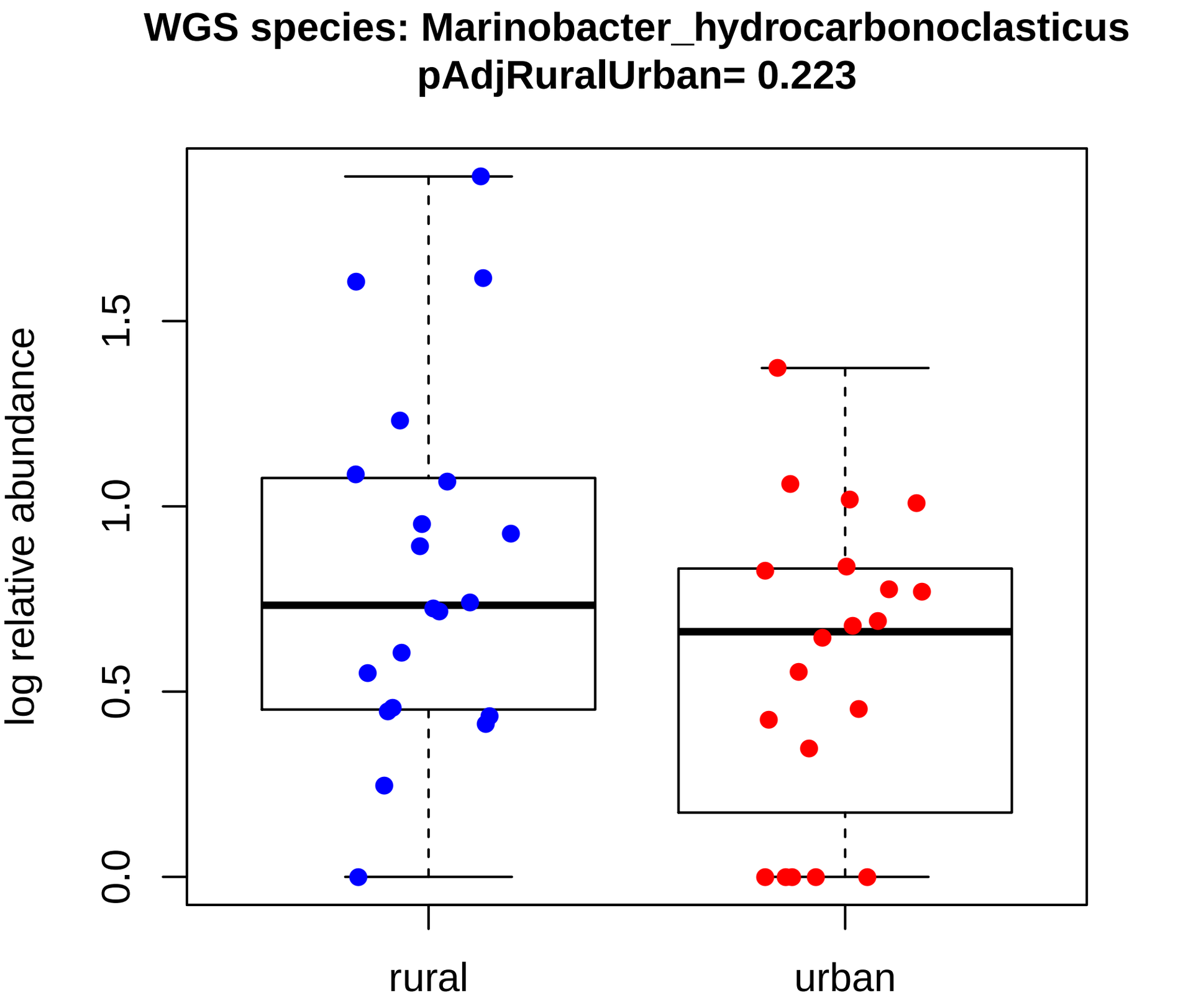

WGS species: Hyphomicrobium_denitrificans
pAdjRuralUrban= 0.221
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

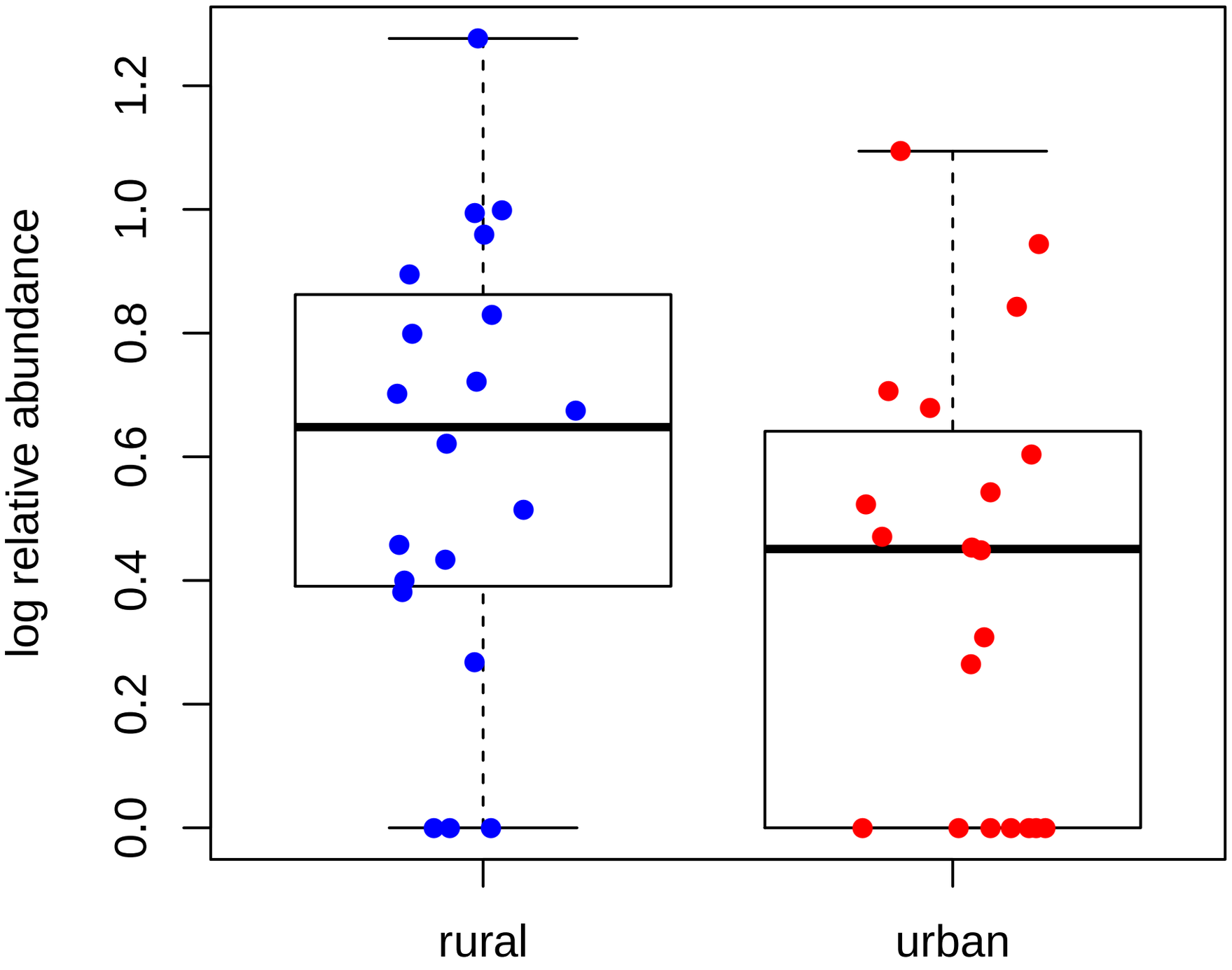

WGS species: Burkholderia_phymatum
pAdjRuralUrban= 0.221
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

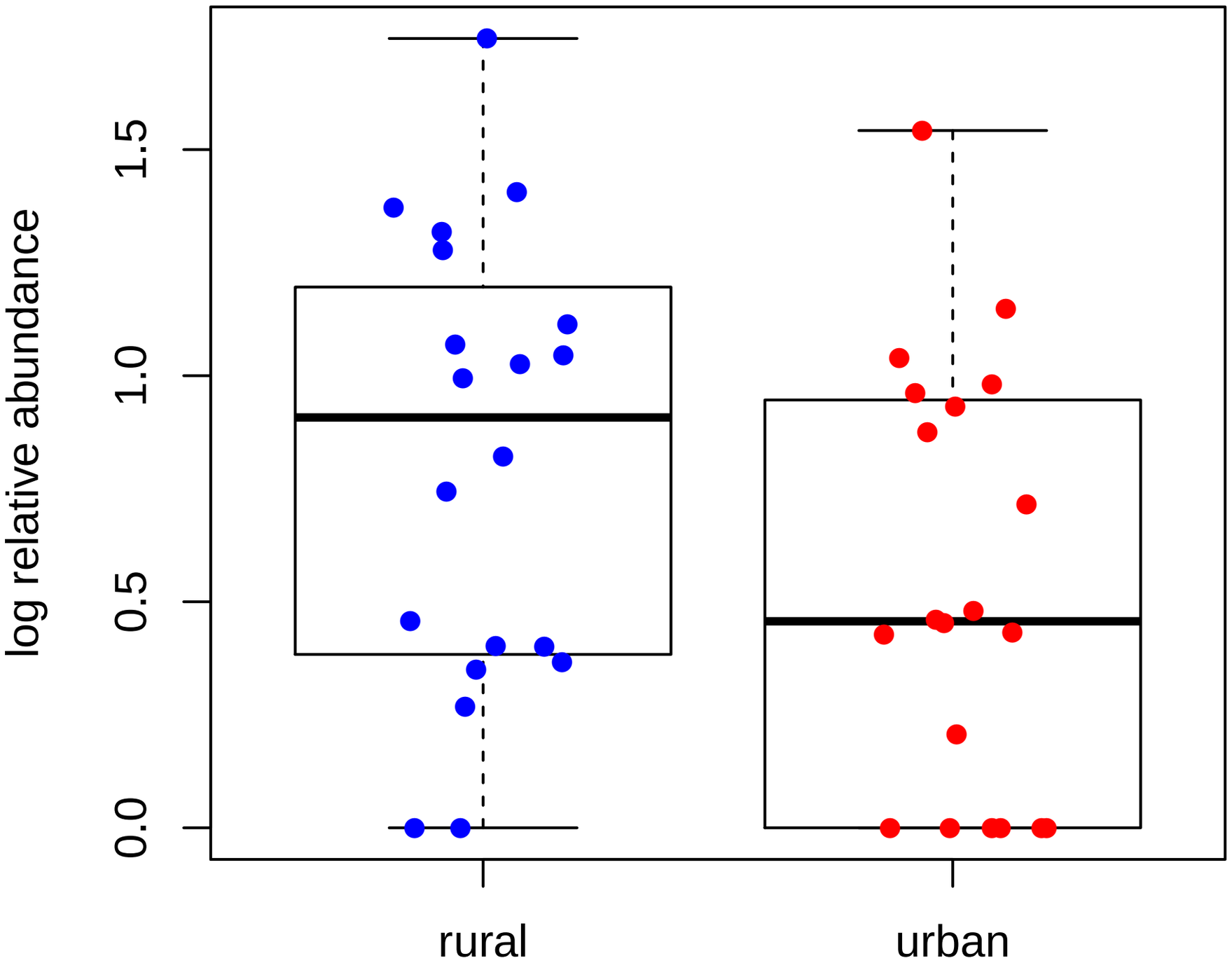

WGS species: Aeromonas_veronii
pAdjRuralUrban= 0.222
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

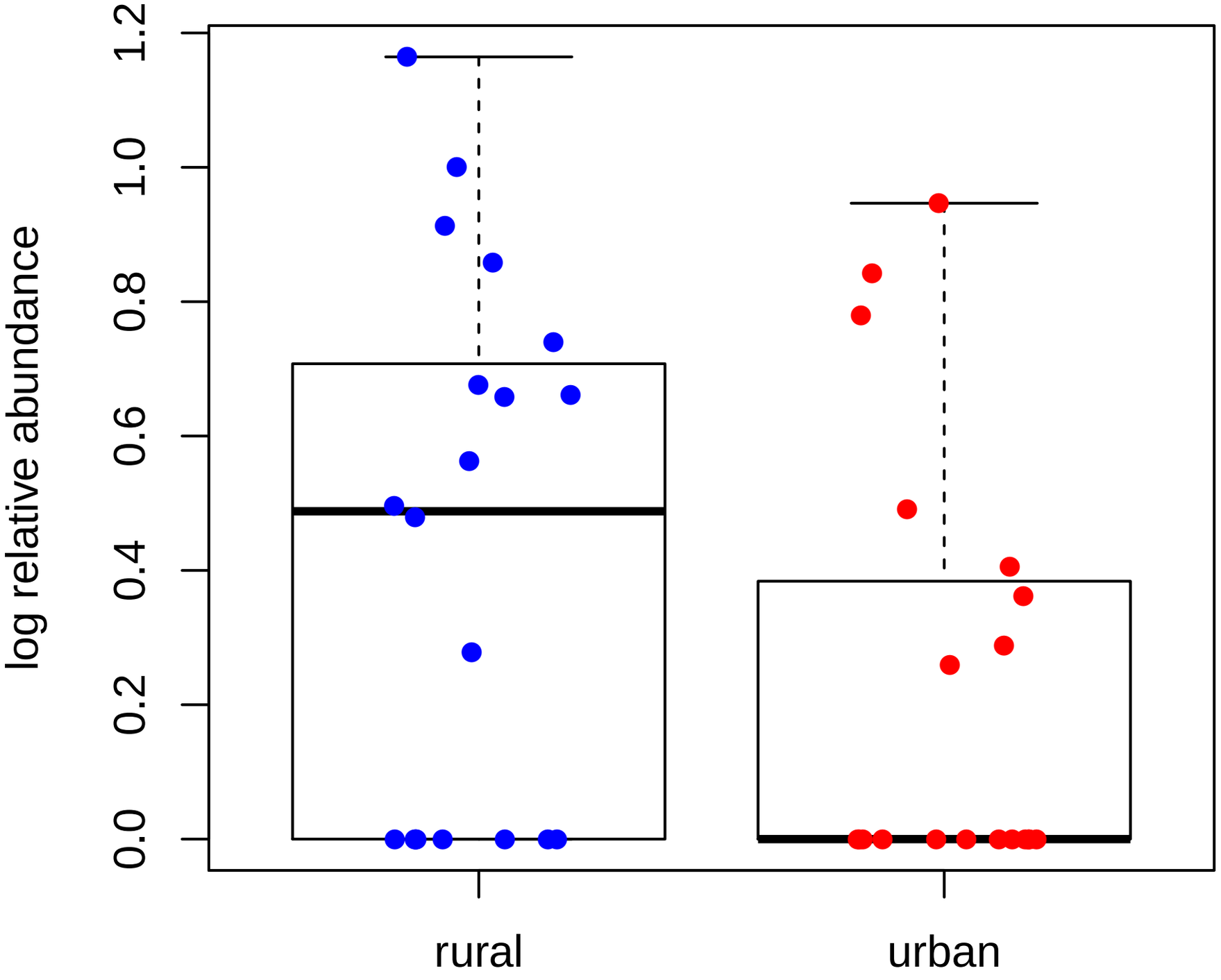

WGS species: Arcobacter_butzleri
pAdjRuralUrban= 0.222
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

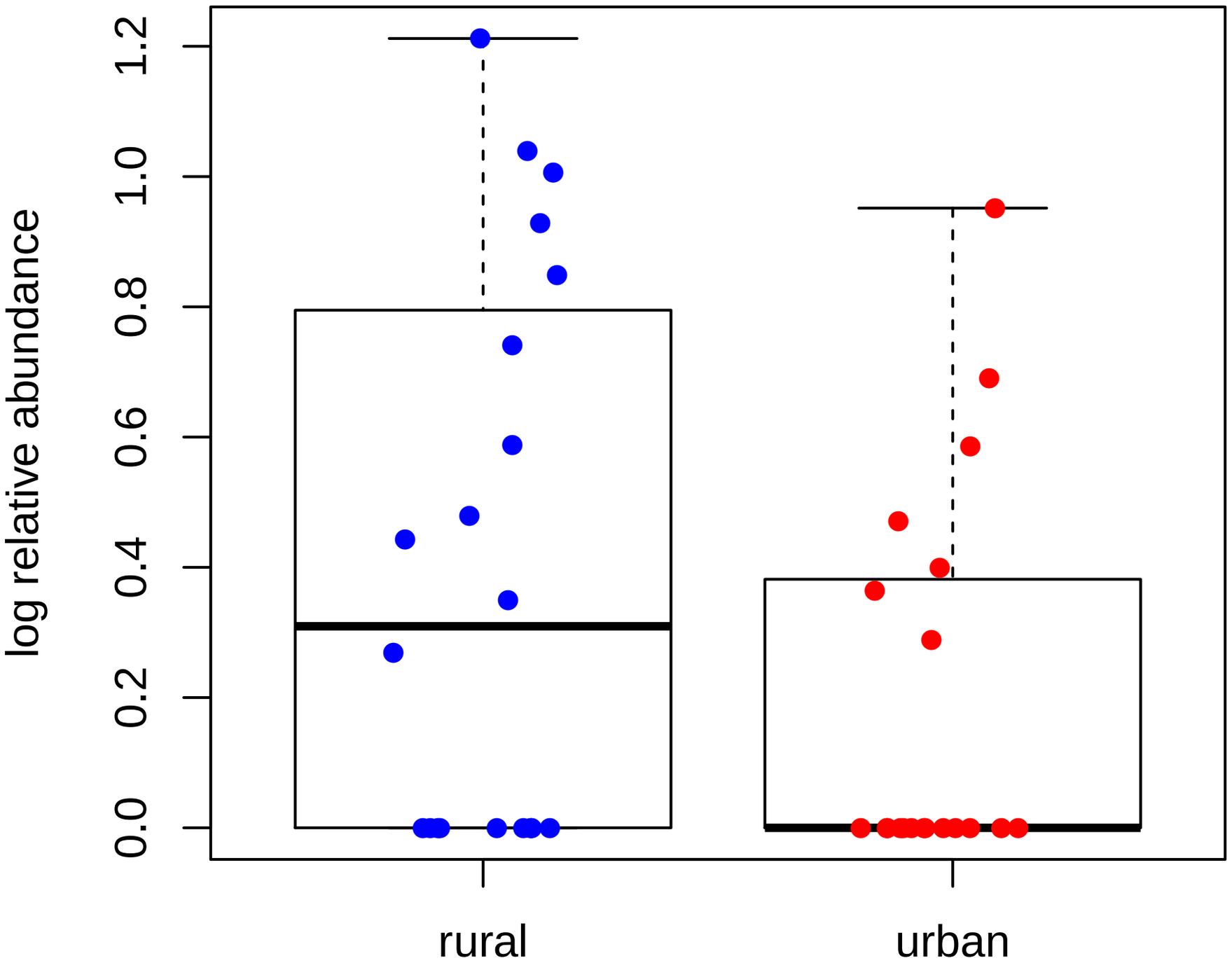

WGS species: Terriglobus_roseus
pAdjRuralUrban= 0.223
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

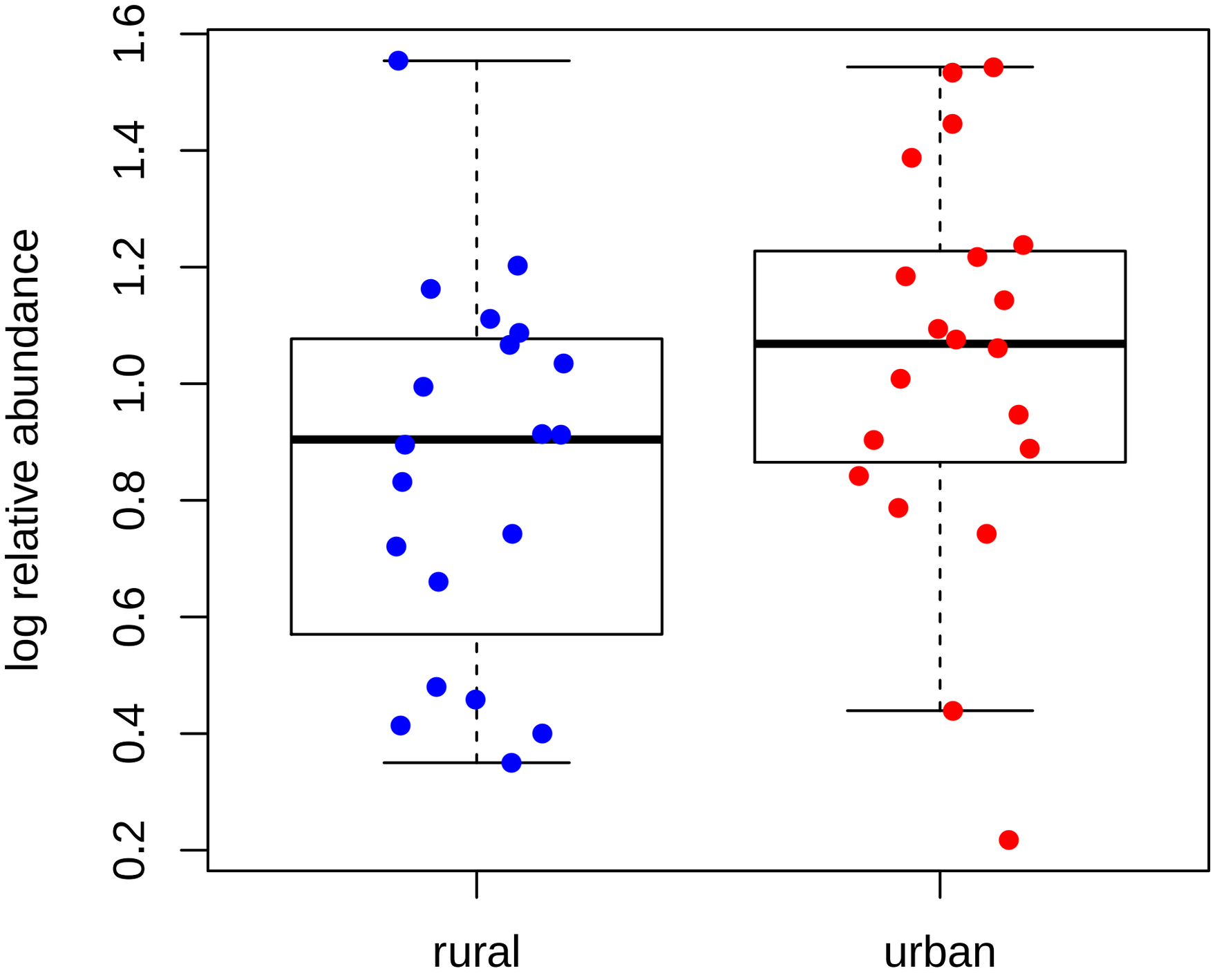

WGS species: Marinobacter_hydrocarbonoclasticus
pAdjRuralUrban= 0.223
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

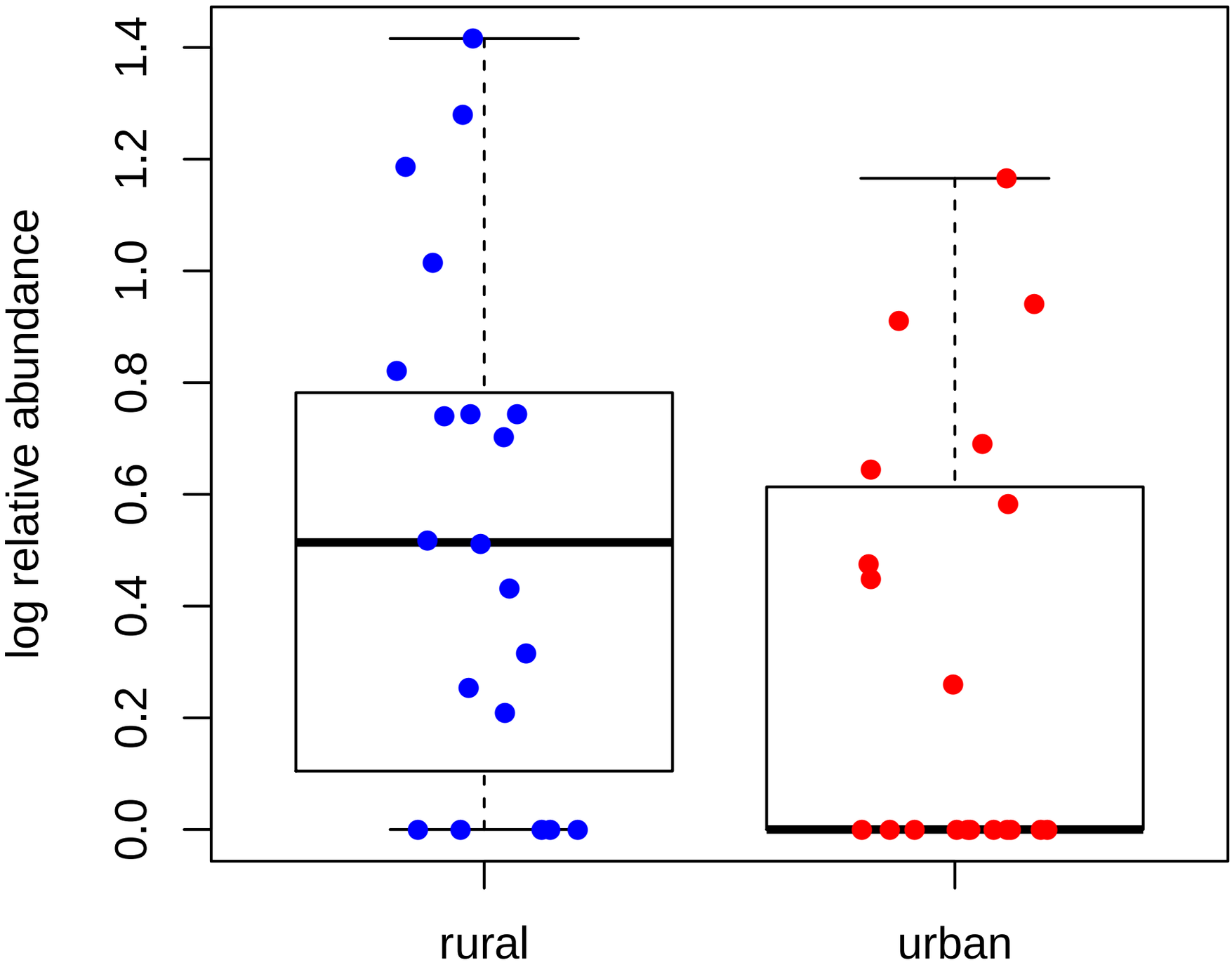

WGS species: Delftia_sp._Cs1.4
pAdjRuralUrban= 0.226
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

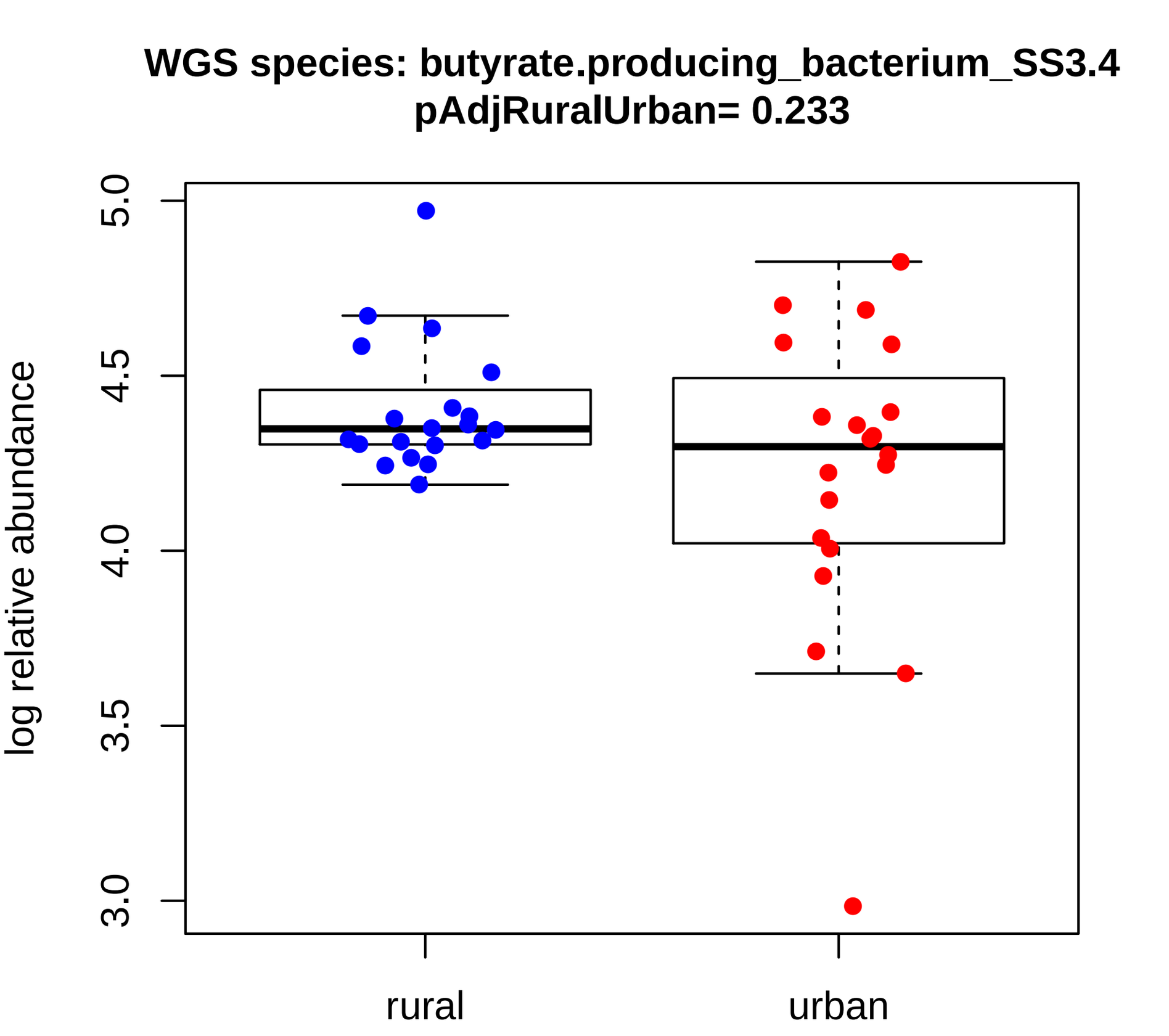

WGS species: Deinococcus_radiodurans
pAdjRuralUrban= 0.226
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

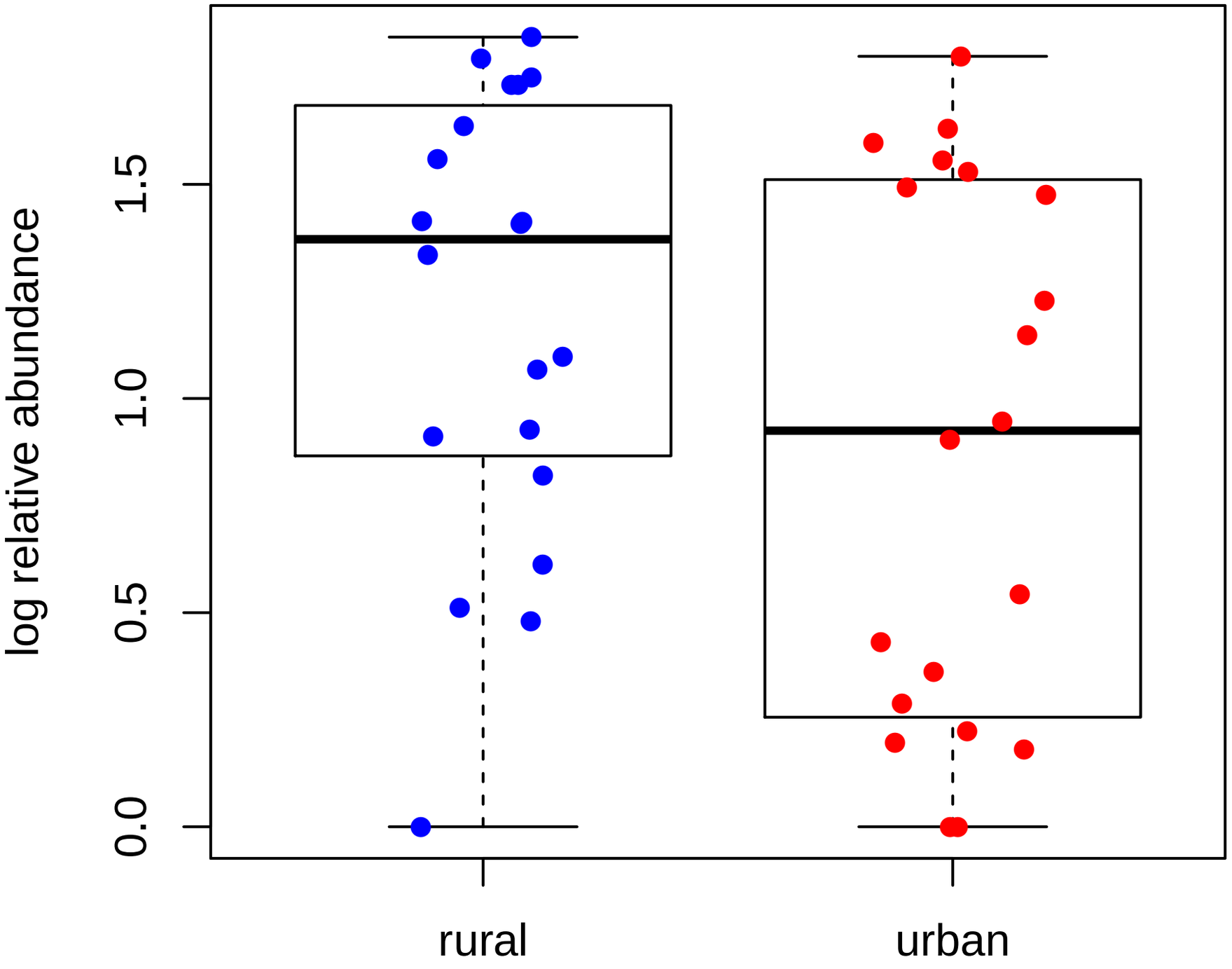

WGS species: Bordetella_bronchiseptica
pAdjRuralUrban= 0.228
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

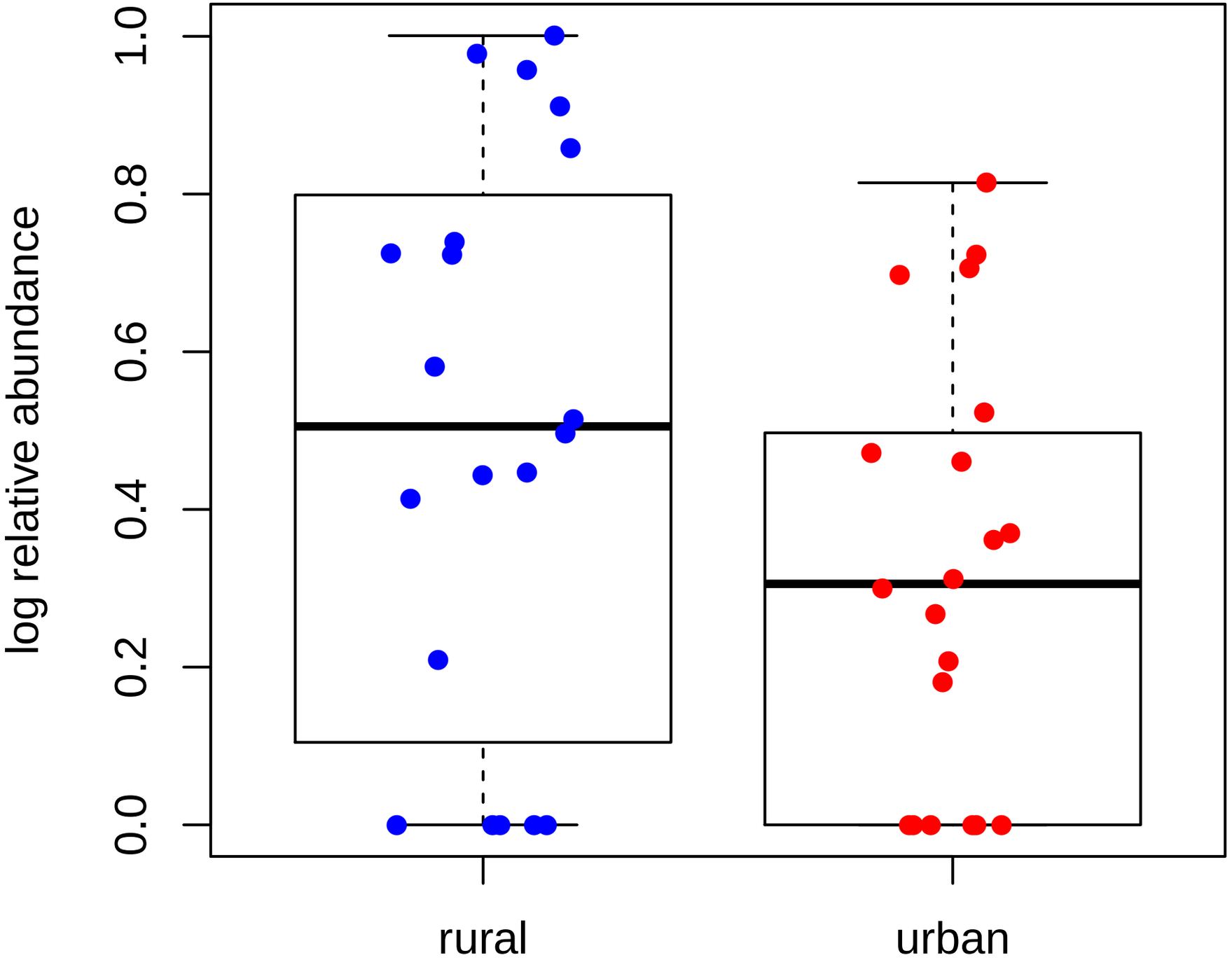

WGS species: Thermosipho_africanus
pAdjRuralUrban= 0.23
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

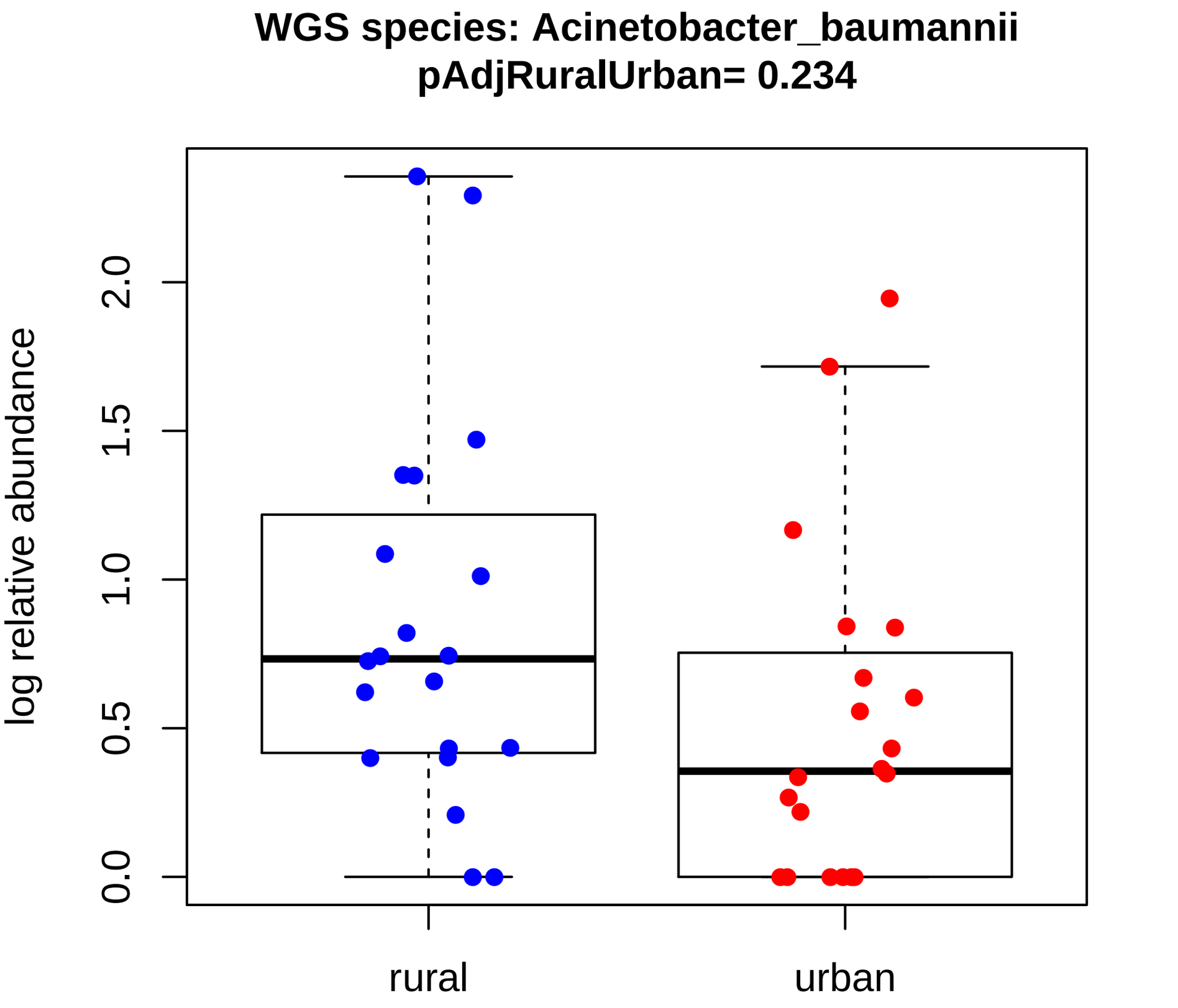

WGS species: Corynebacterium_callunae
pAdjRuralUrban= 0.232
log relative abundance
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
rural
urban

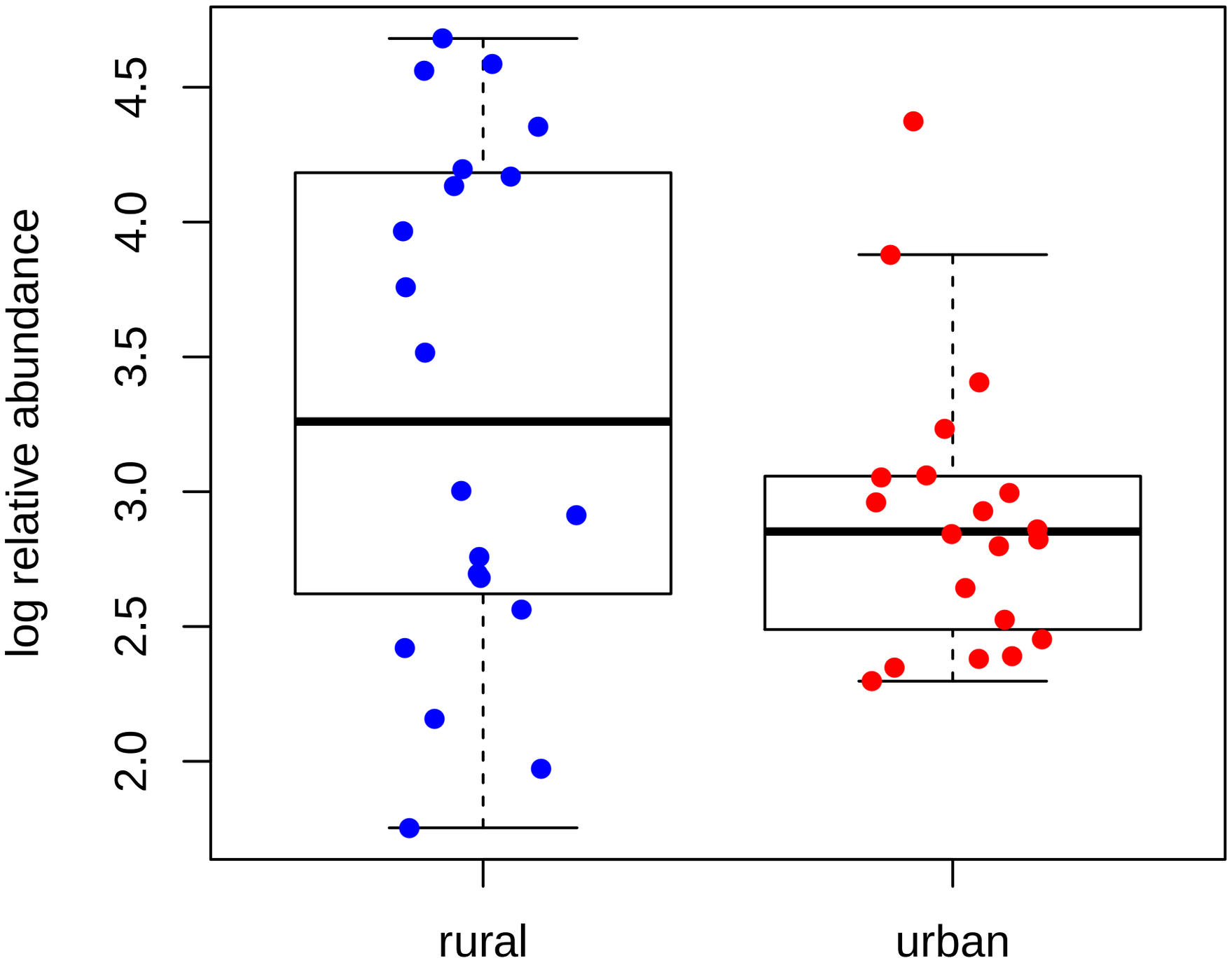

WGS species: Desulfobacula_toluolica
pAdjRuralUrban= 0.232
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

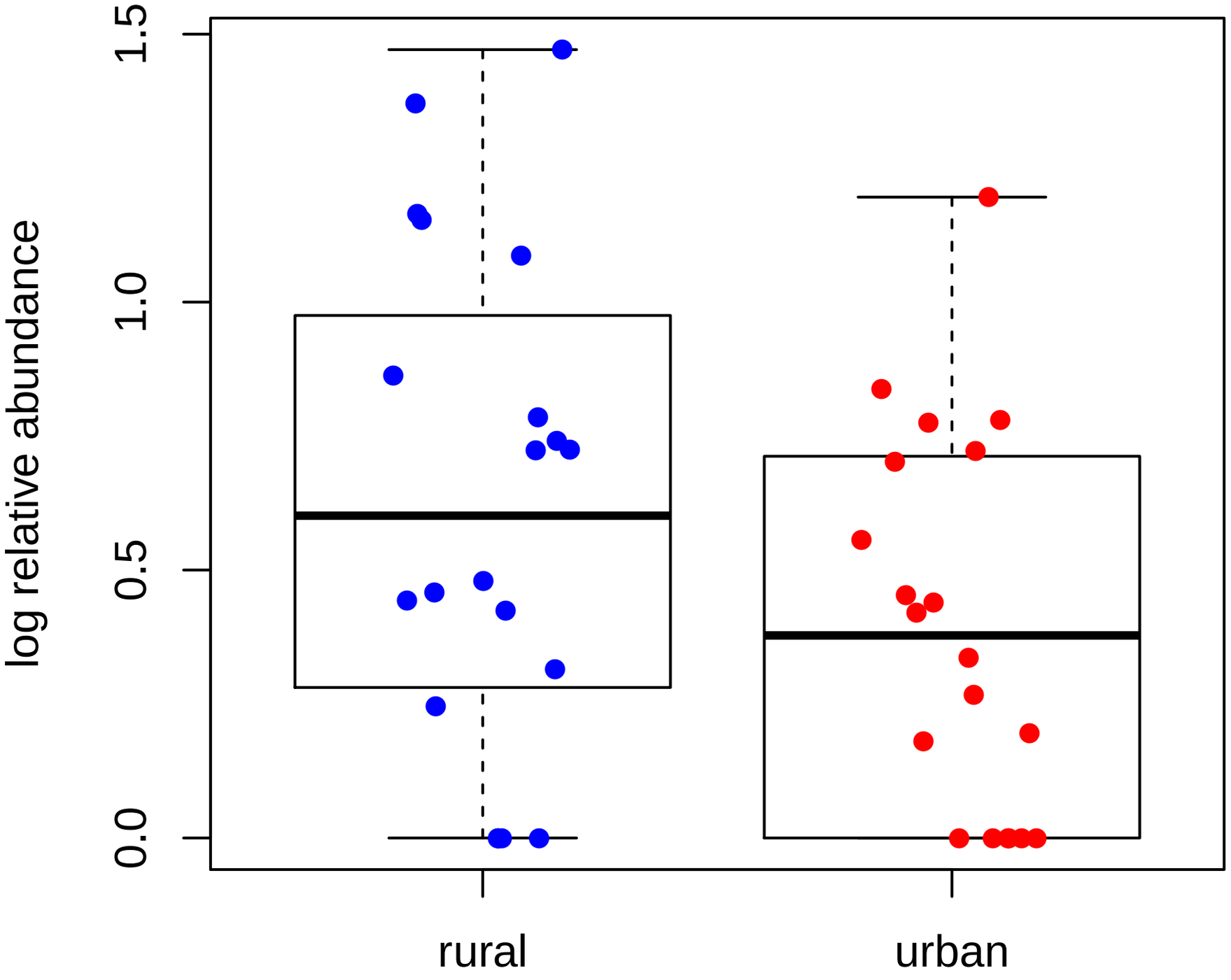

WGS species: butyrate.producing_bacterium_SS3.4
pAdjRuralUrban= 0.233
log relative abundance
5.0
4.5
4.0
3.5
3.0
rural
urban

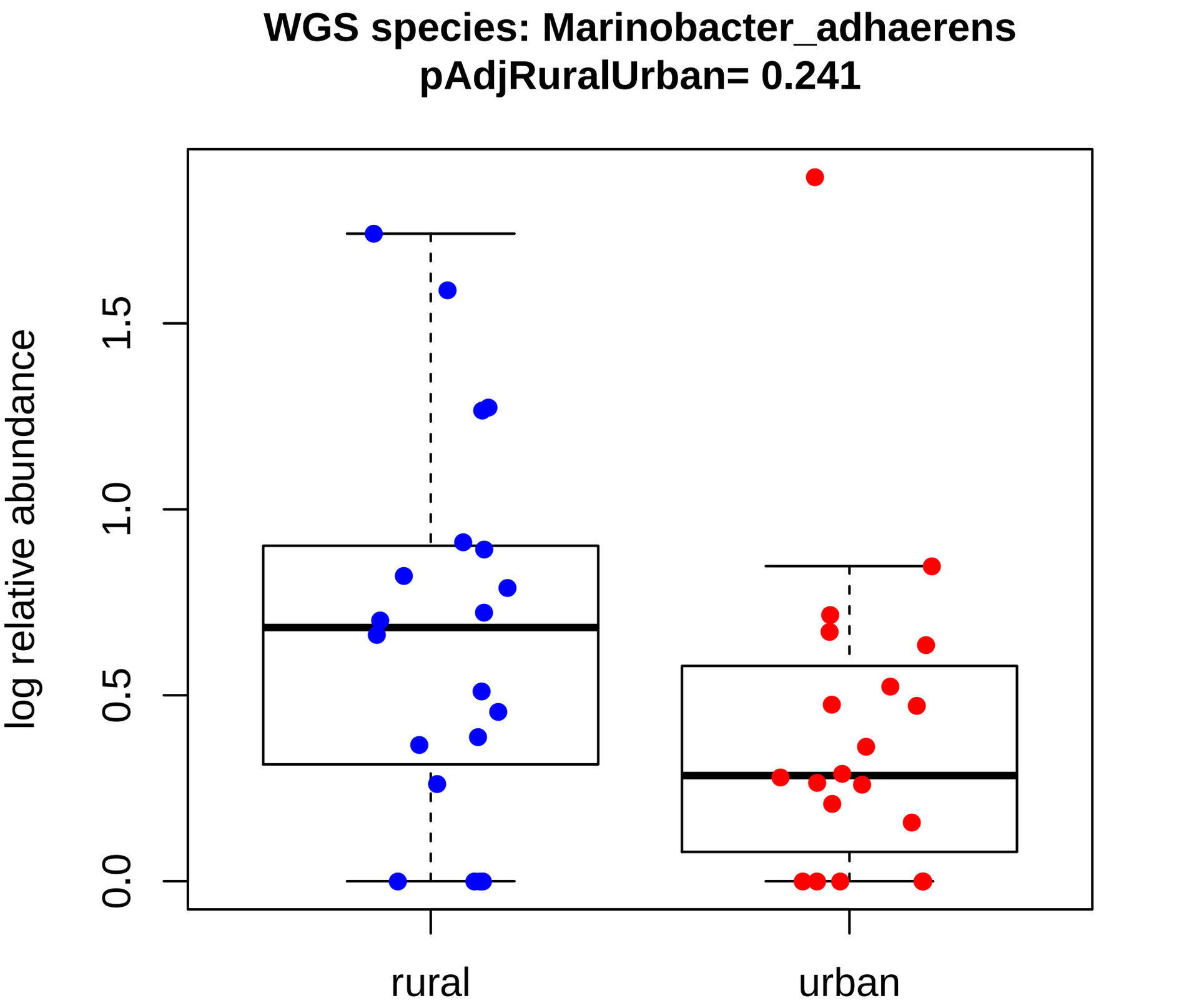

WGS species: Owenweeksia_hongkongensis
pAdjRuralUrban= 0.233
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

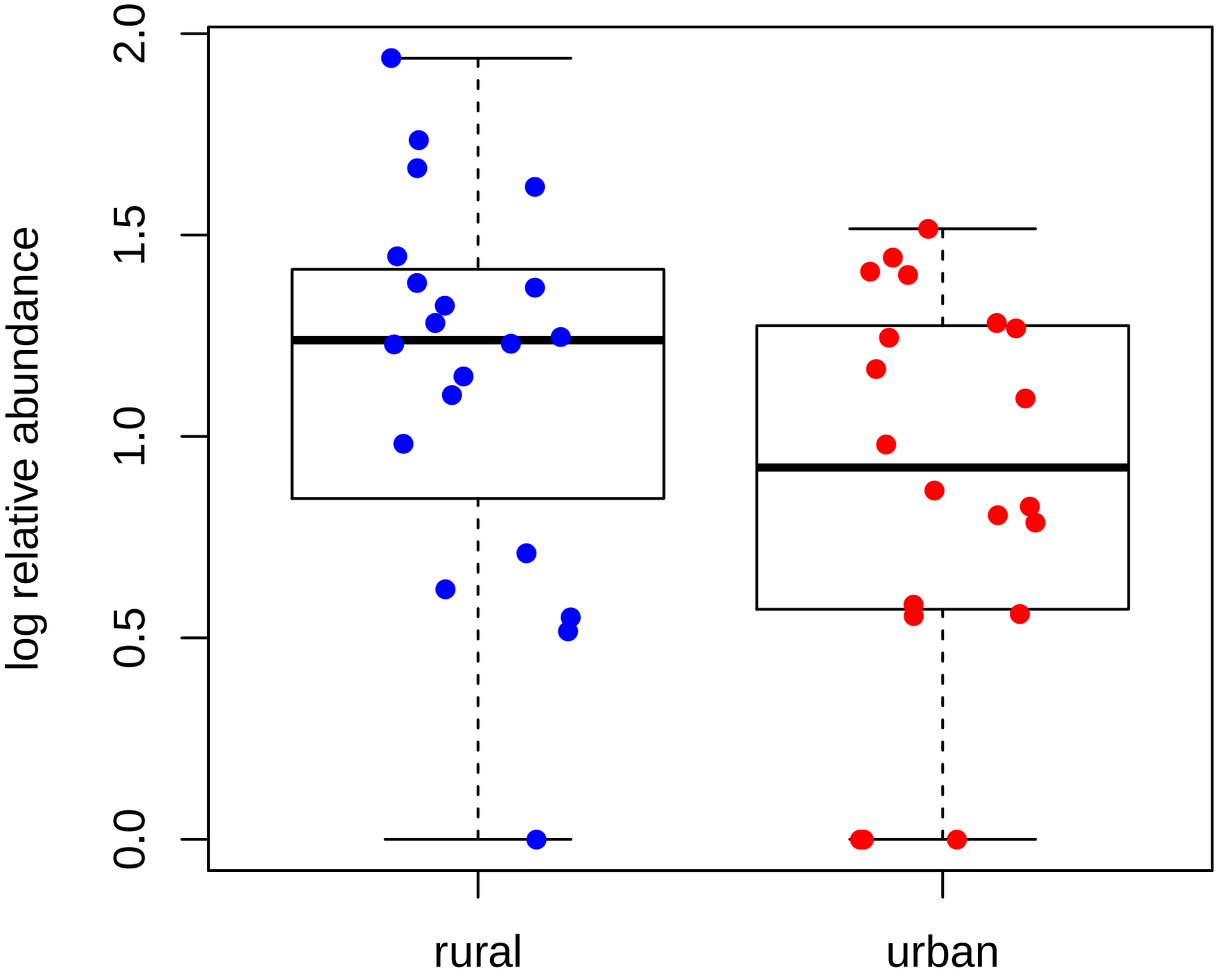

WGS species: Carnobacterium_sp._WN1359
pAdjRuralUrban= 0.233
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

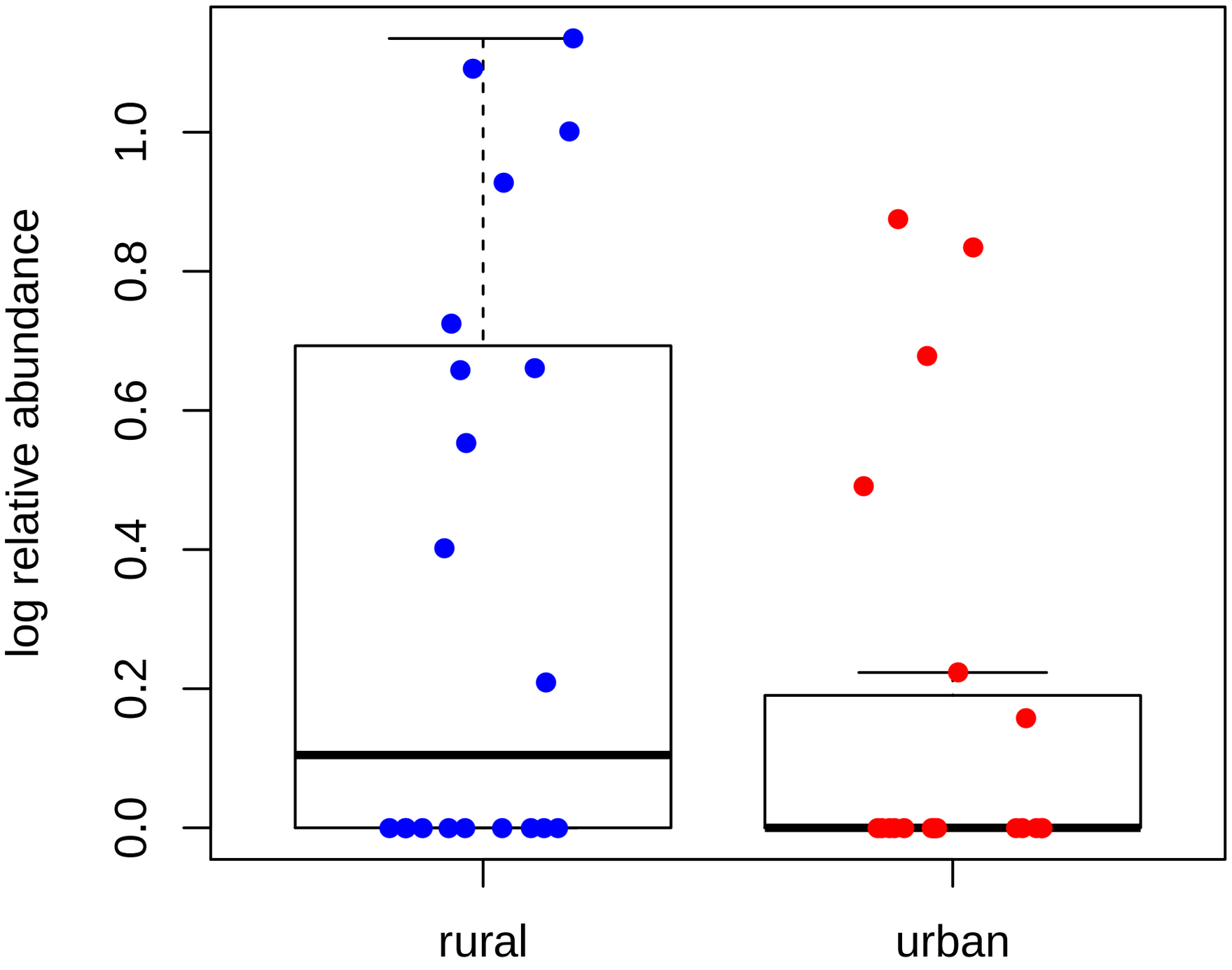

WGS species: Acinetobacter_baumannii
pAdjRuralUrban= 0.234
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

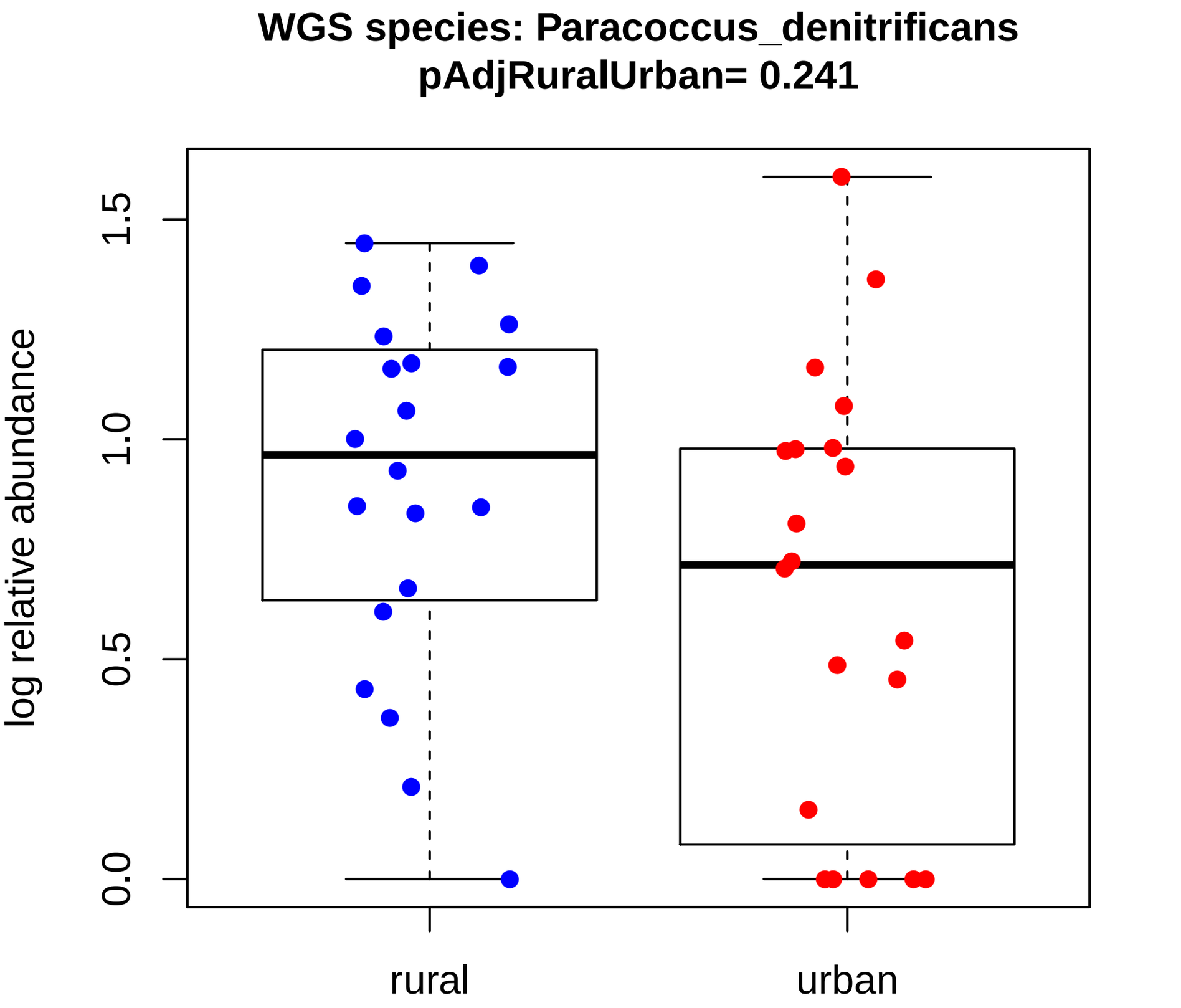

WGS species: Prevotella_melaninogenica
pAdjRuralUrban= 0.234
log relative abundance
2.0
2.5
3.0
3.5
4.0
4.5
rural
urban

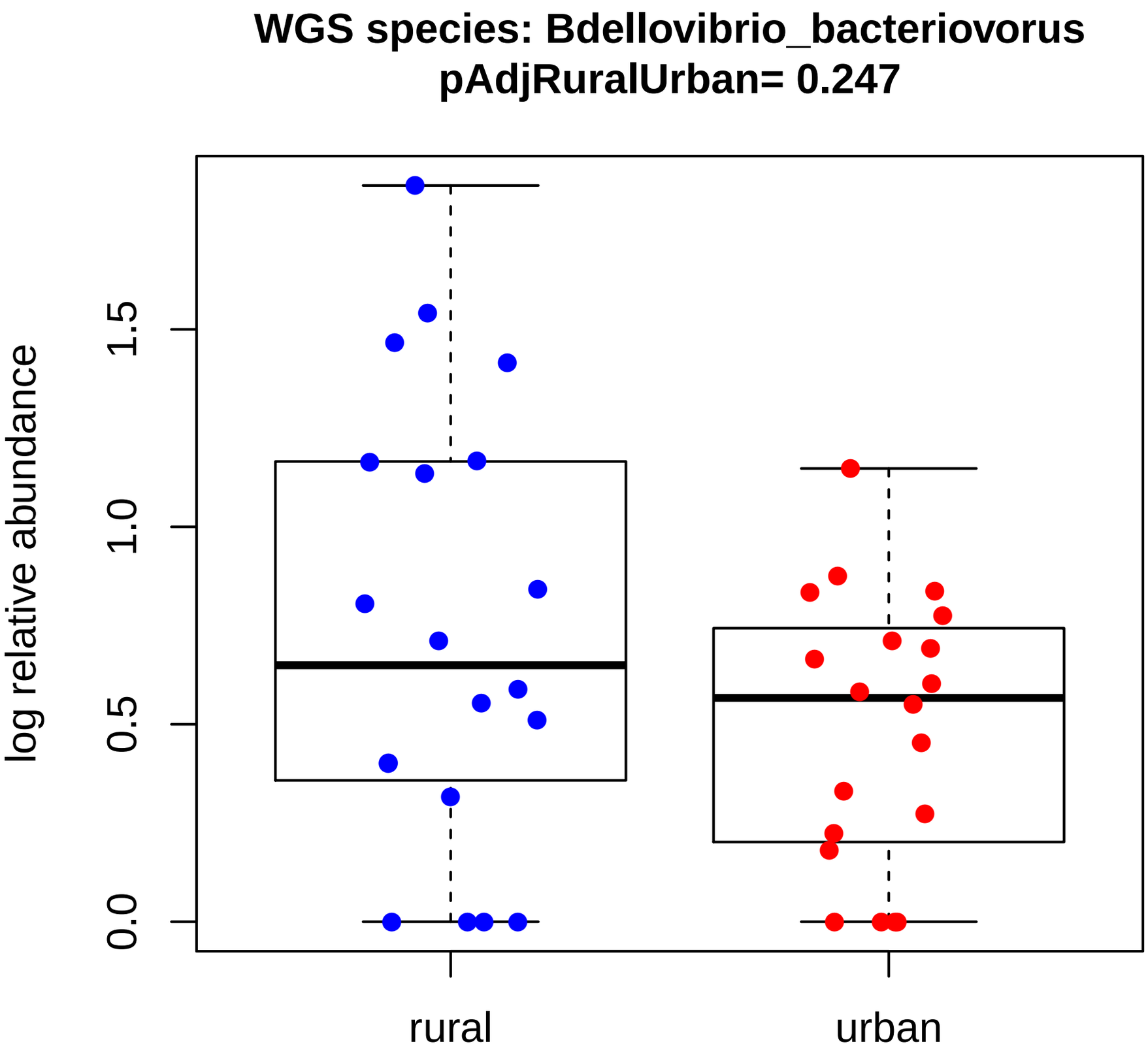

WGS species: Chromohalobacter_salexigens
pAdjRuralUrban= 0.24
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

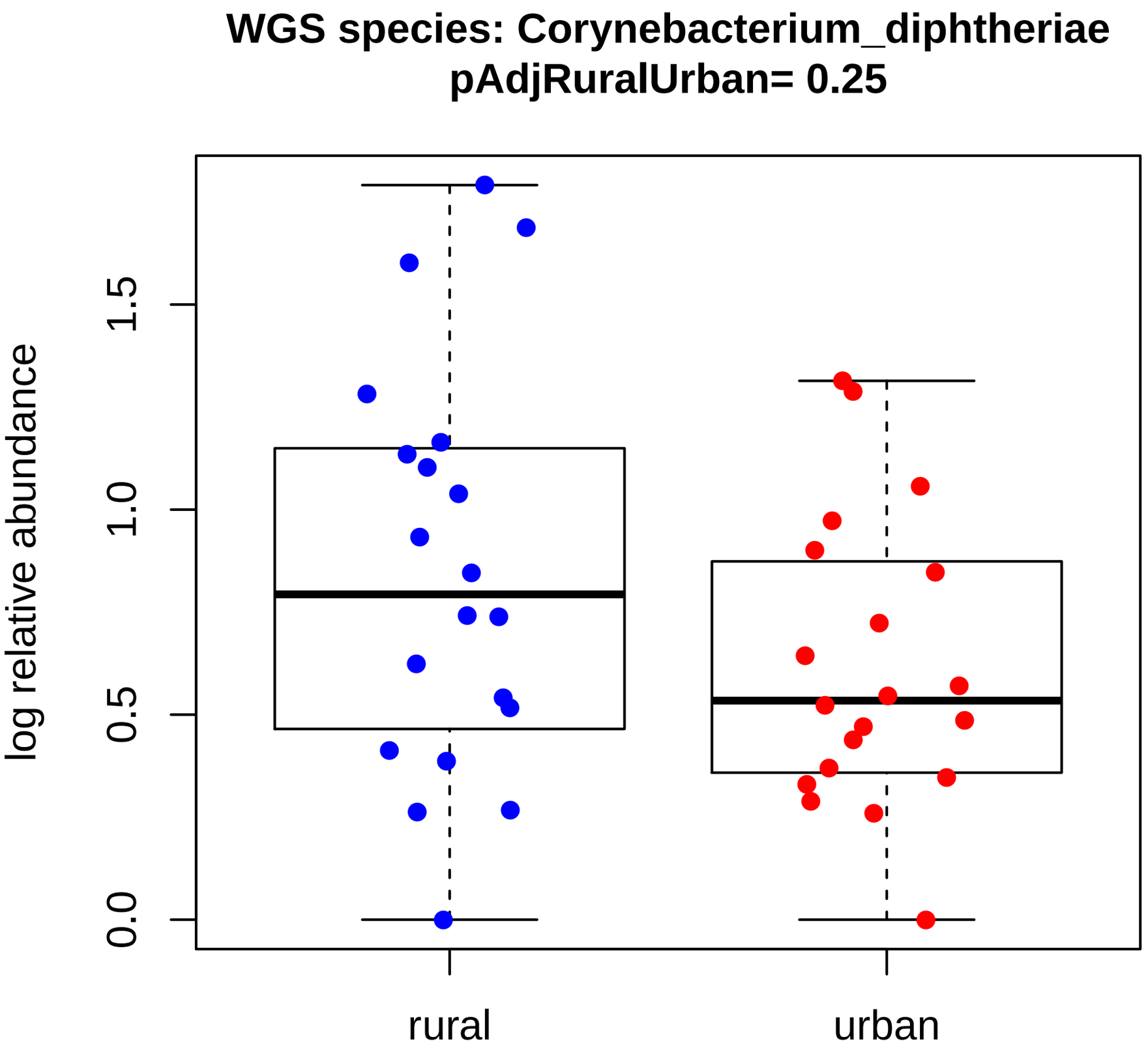

WGS species: Marinobacter_adhaerens
pAdjRuralUrban= 0.241
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

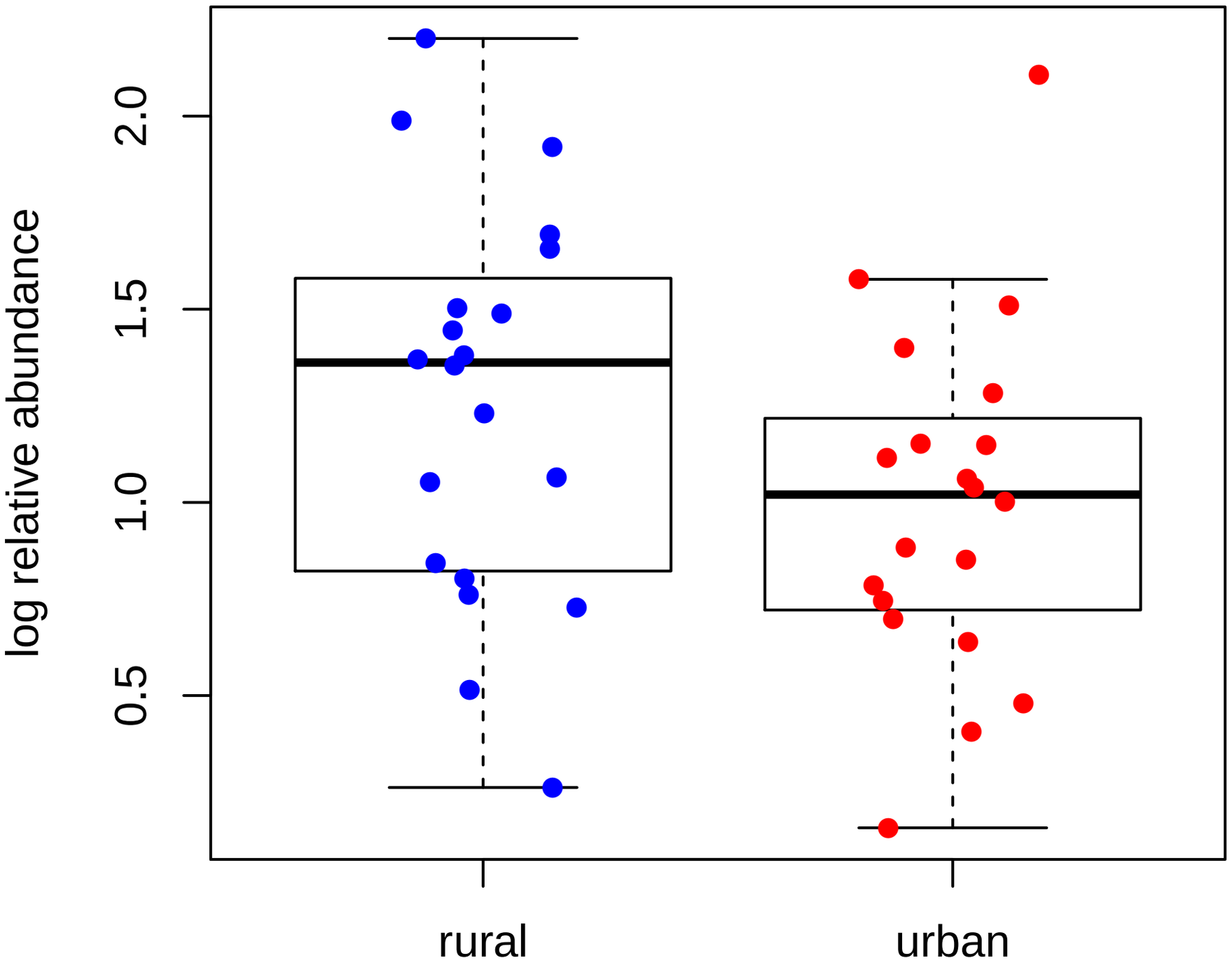

WGS species: Thioflavicoccus_mobilis
pAdjRuralUrban= 0.241
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

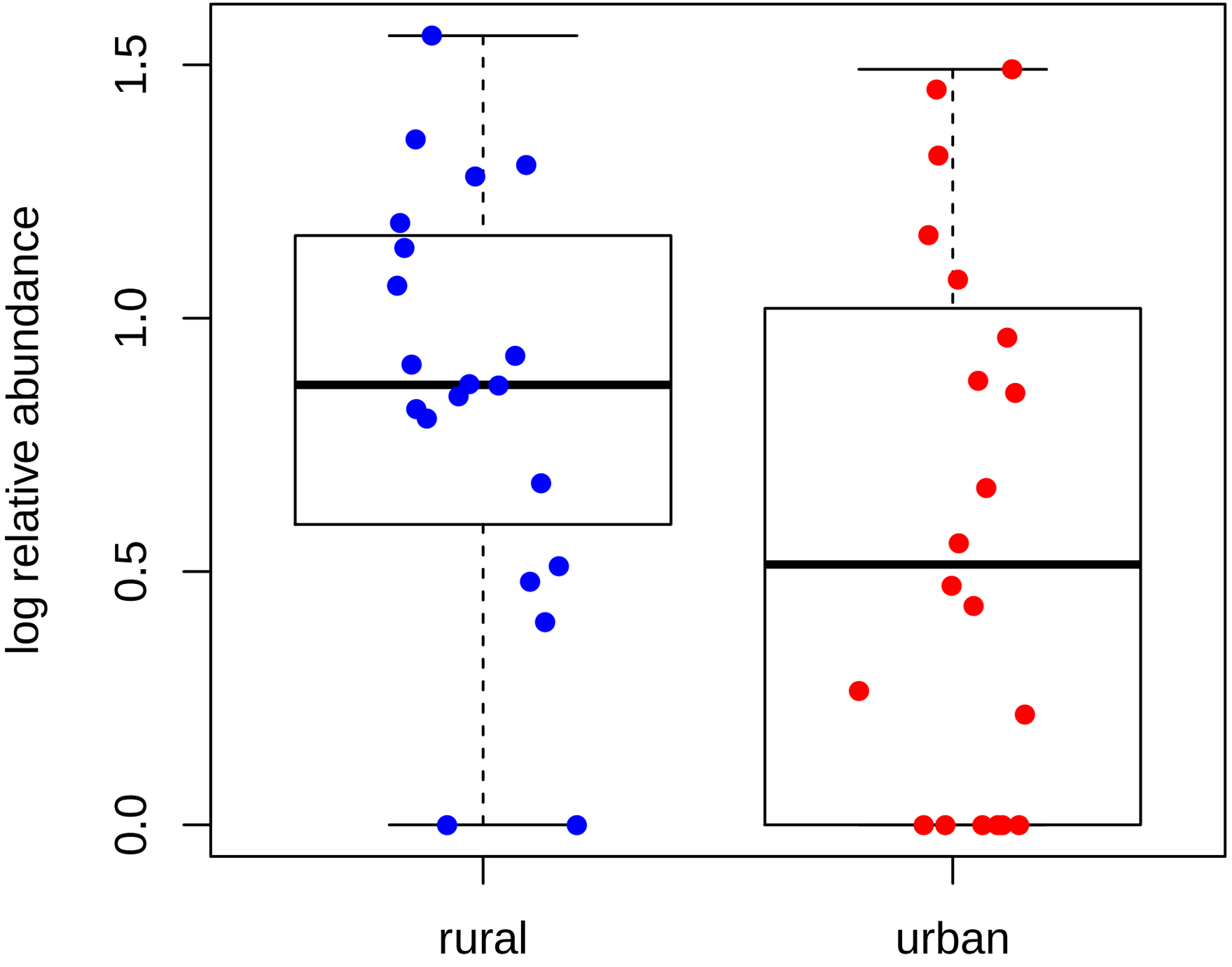

WGS species: Mesorhizobium_ciceri
pAdjRuralUrban= 0.241
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

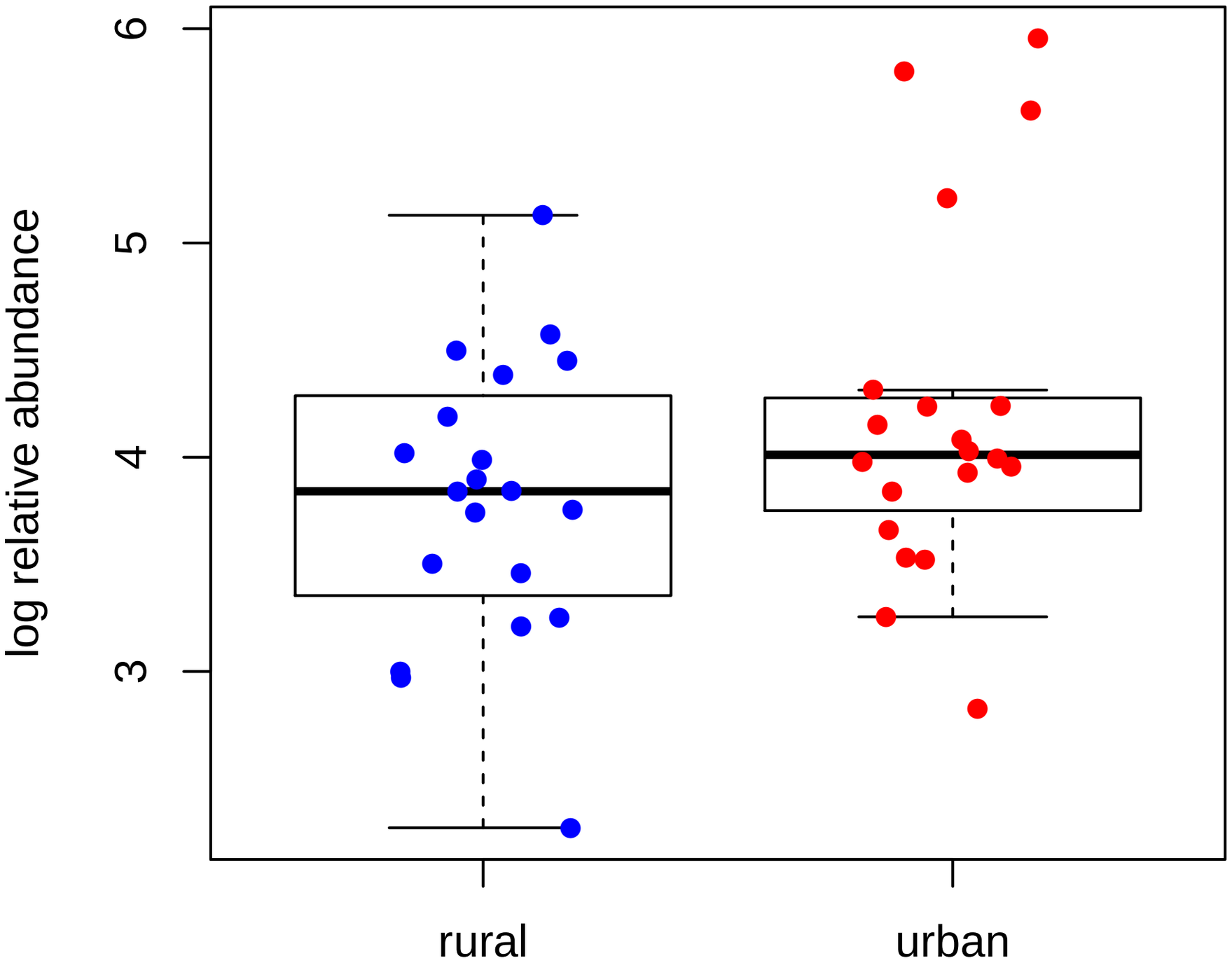

WGS species: Paracoccus_denitrificans
pAdjRuralUrban= 0.241
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

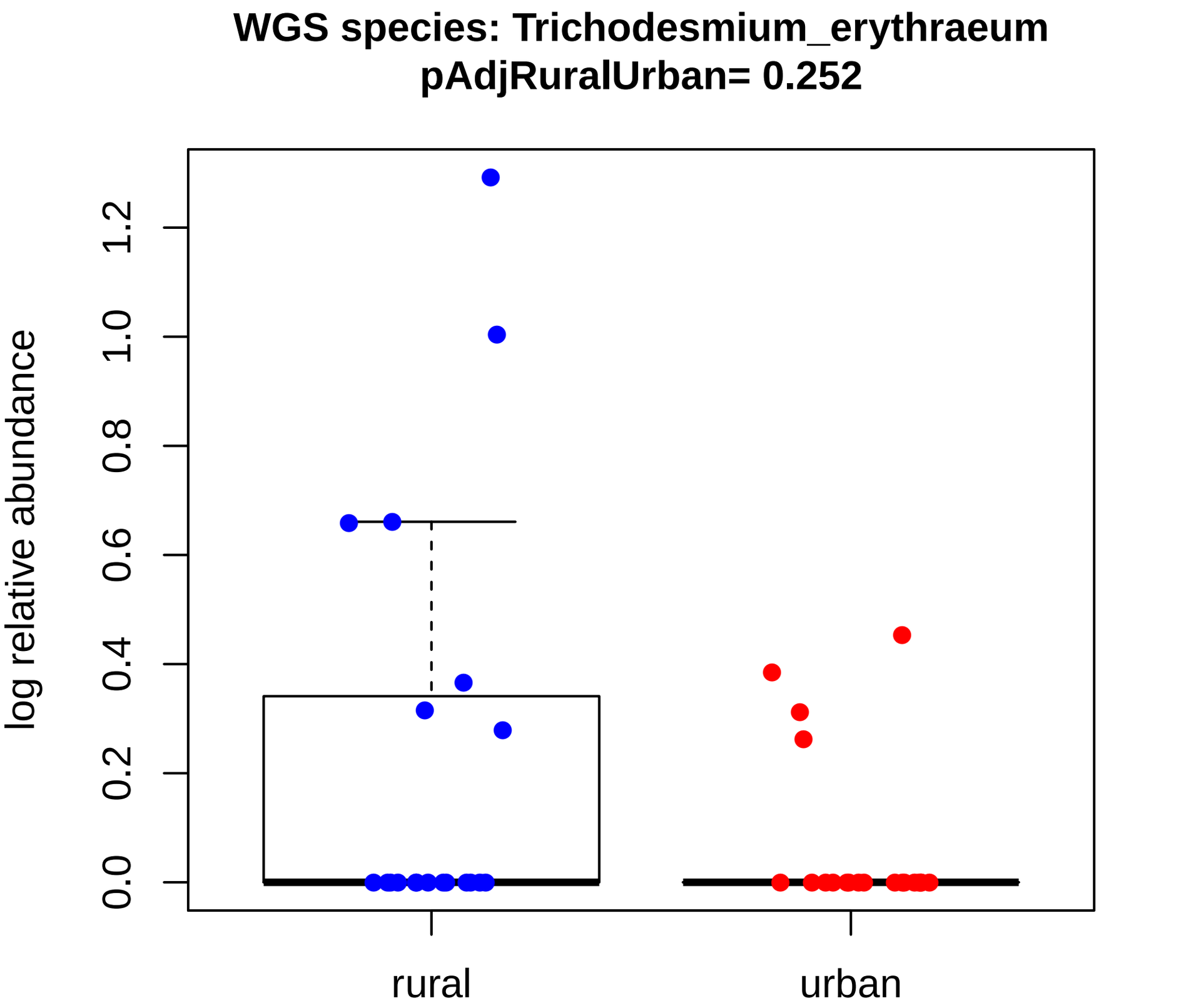

WGS species: Bdellovibrio_bacteriovorus
pAdjRuralUrban= 0.247
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

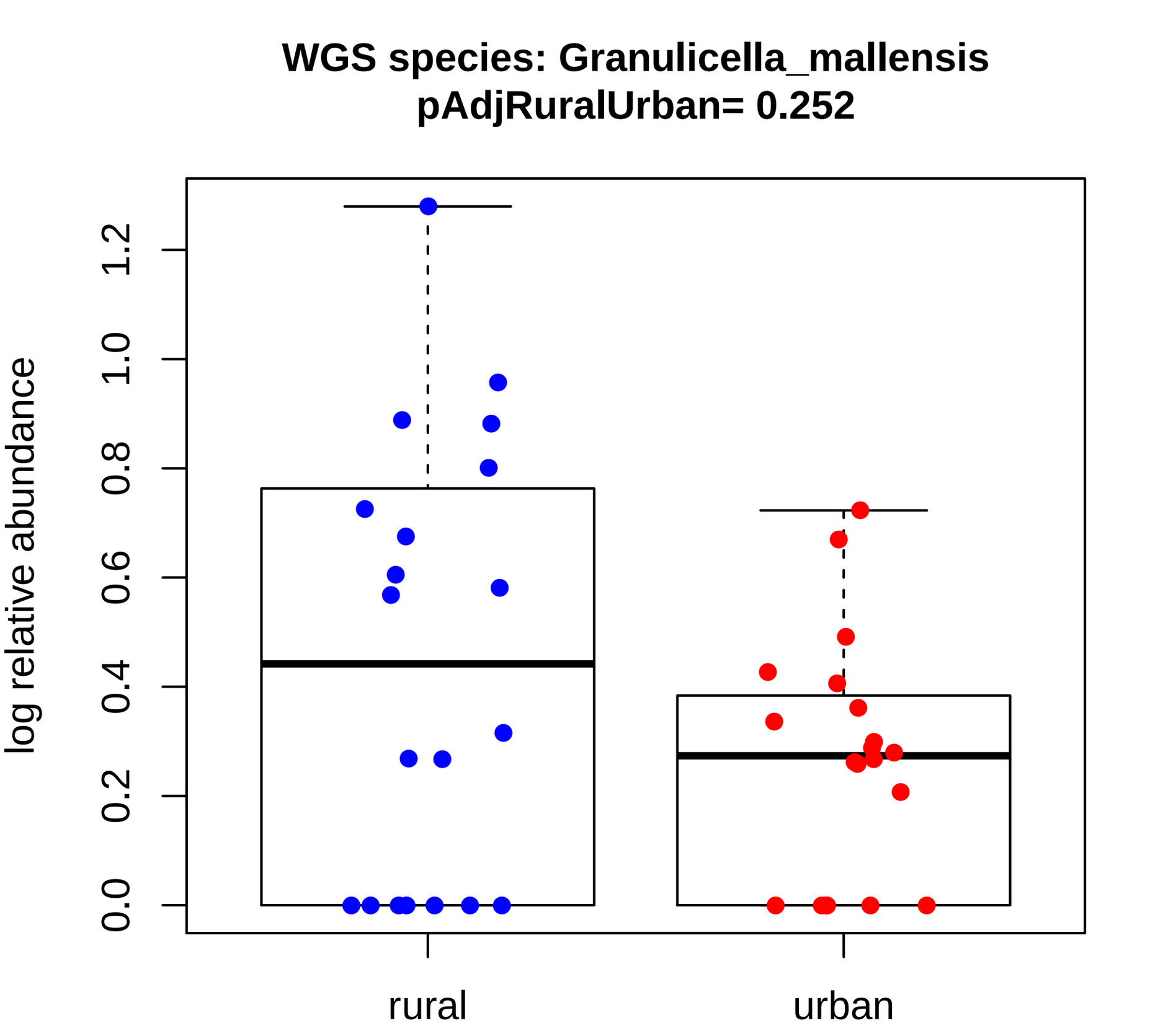

WGS species: Corynebacterium_diphtheriae
pAdjRuralUrban= 0.25
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

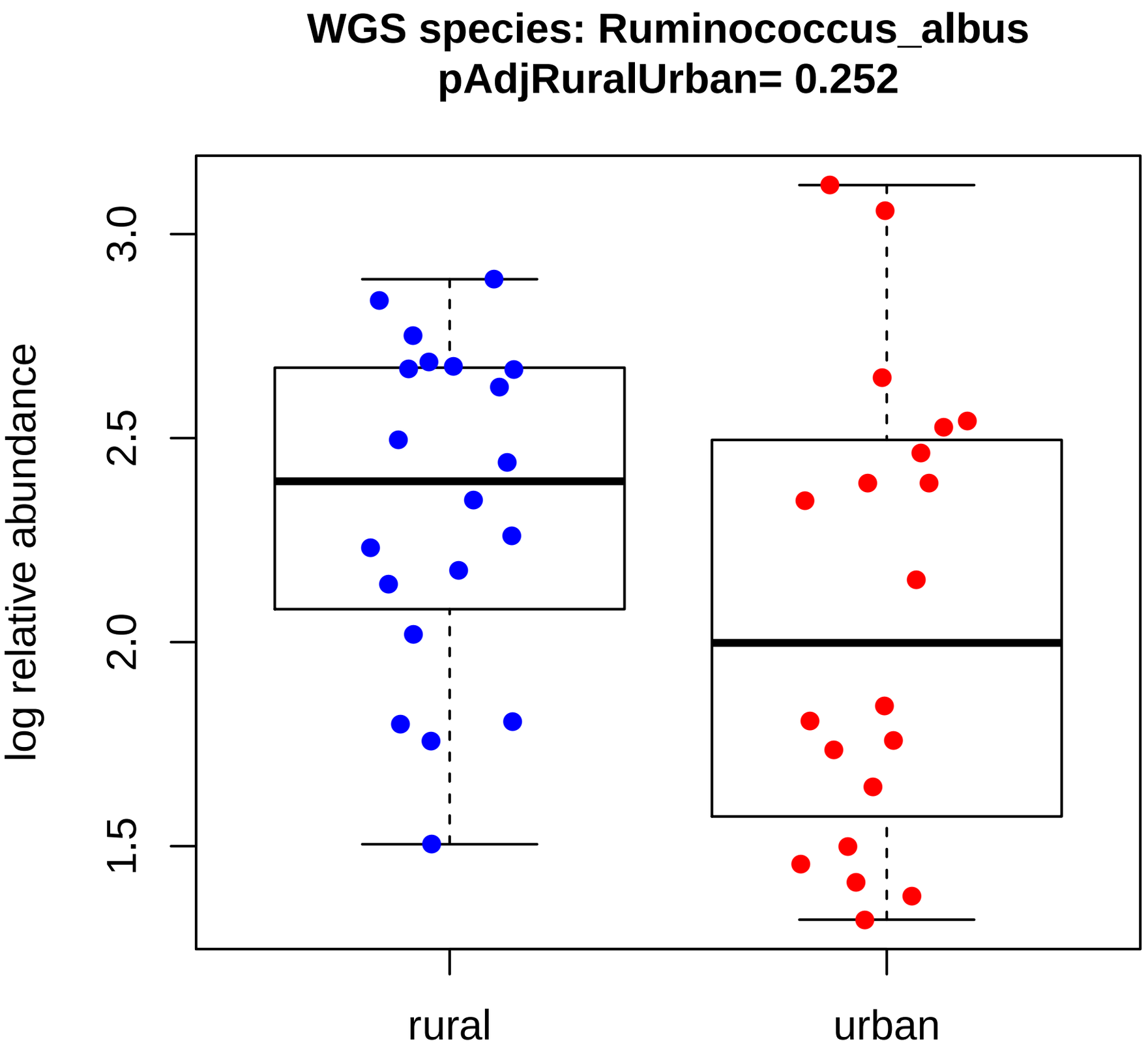

WGS species: Pseudomonas_fluorescens
pAdjRuralUrban= 0.252
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

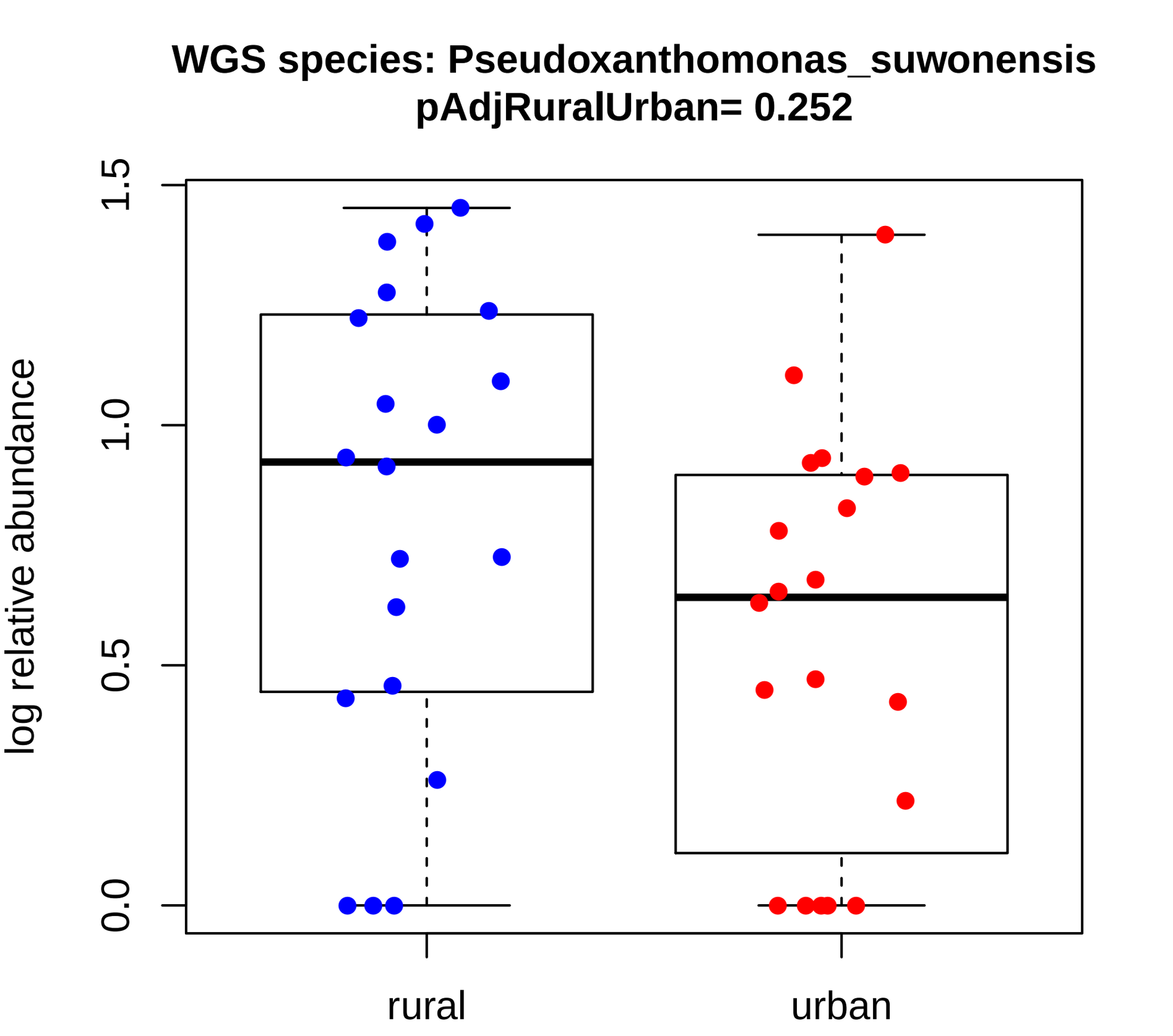

WGS species: Pseudomonas_syringae
pAdjRuralUrban= 0.252
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

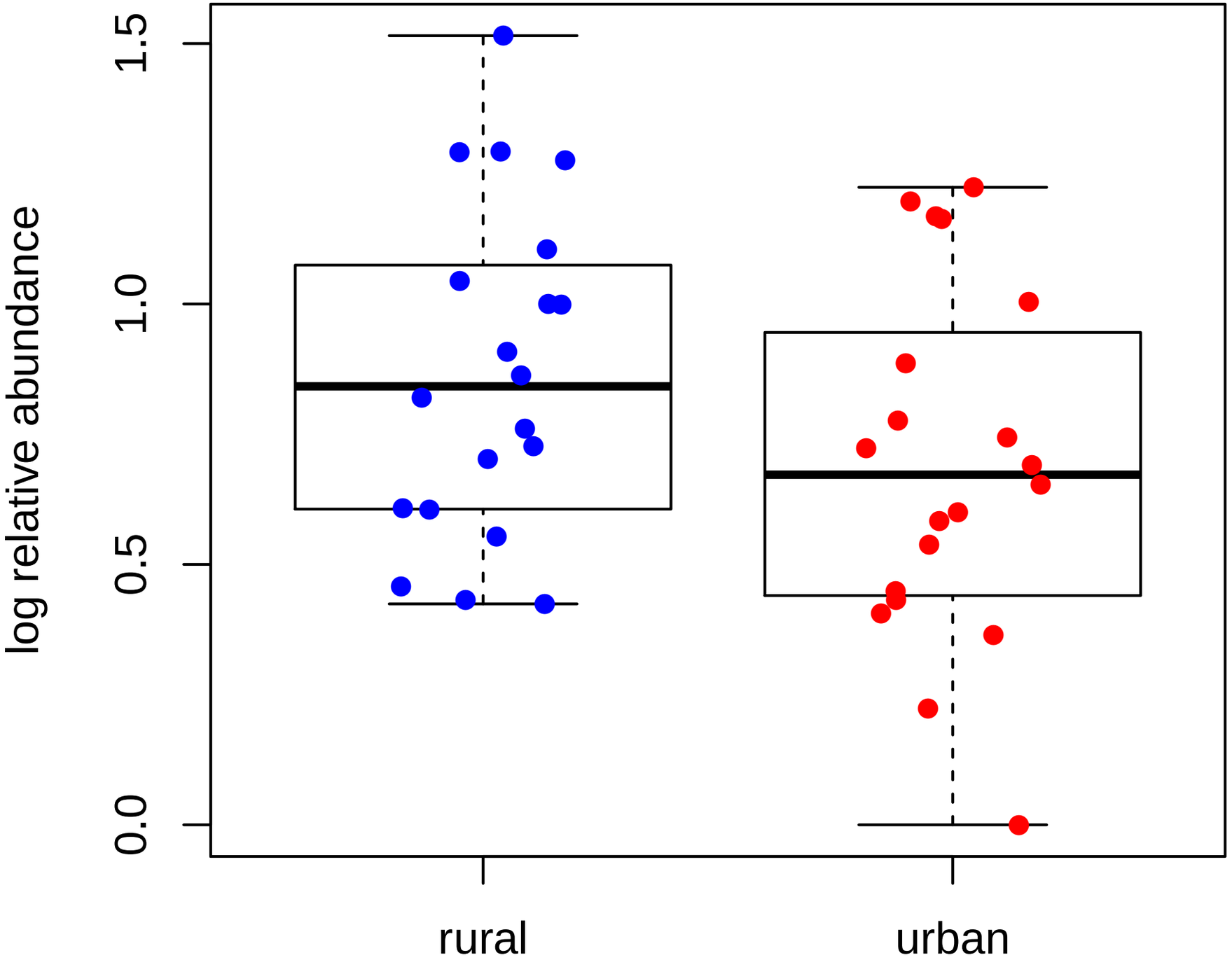

WGS species: Escherichia_coli
pAdjRuralUrban= 0.252
log relative abundance
6
5
4
3
rural
urban

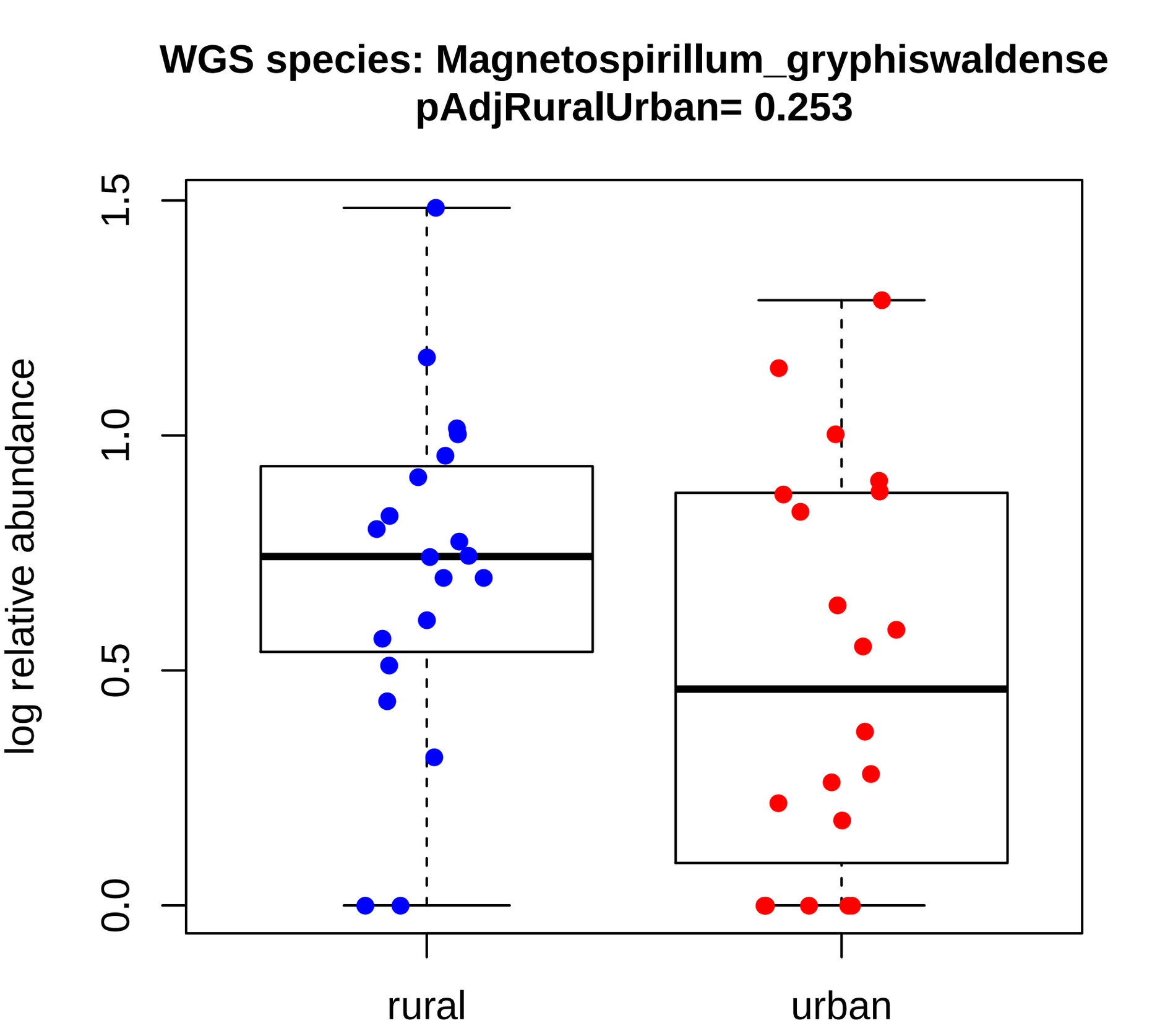

WGS species: Trichodesmium_erythraeum
pAdjRuralUrban= 0.252
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

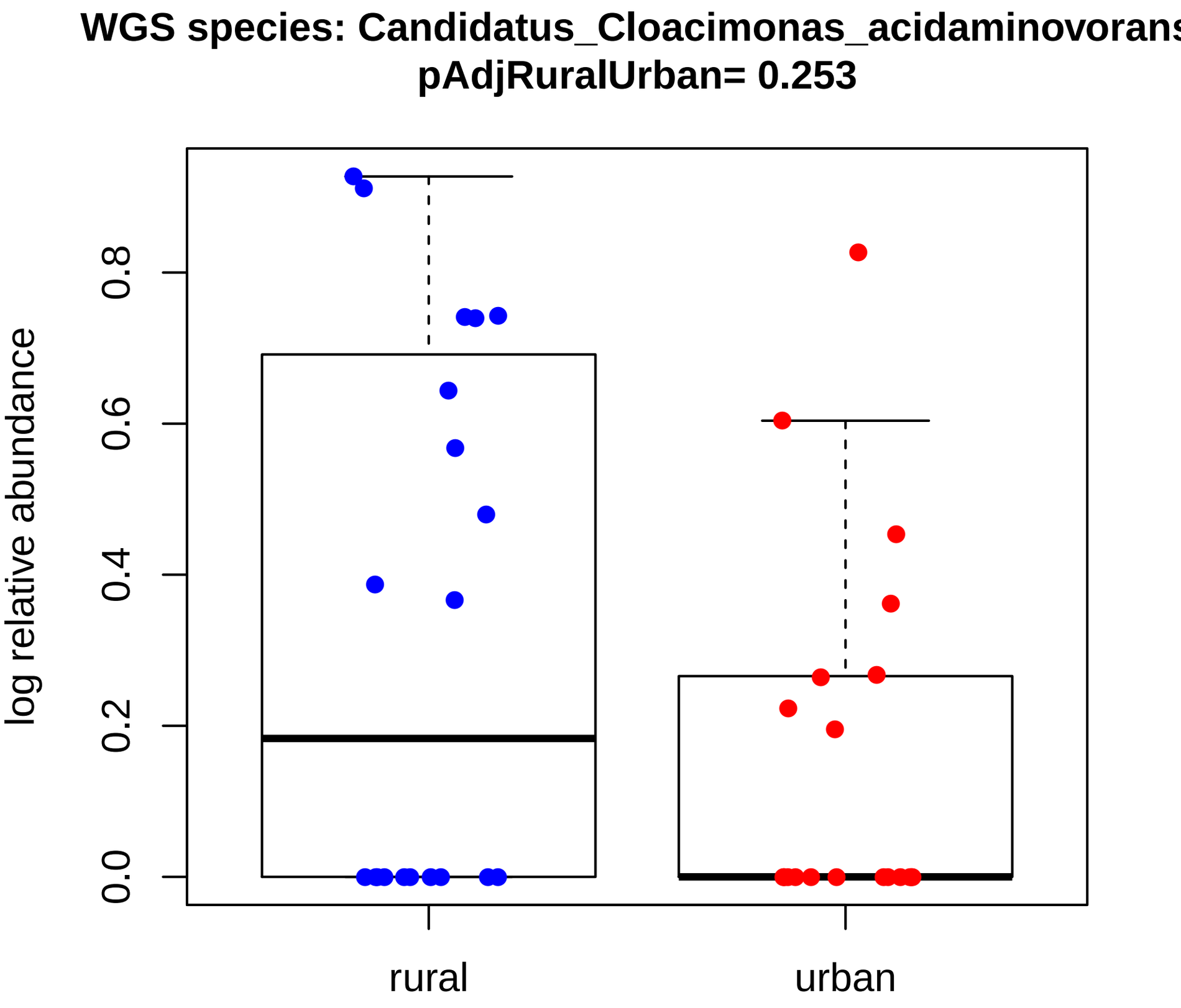

WGS species: Granulicella_mallensis
pAdjRuralUrban= 0.252
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

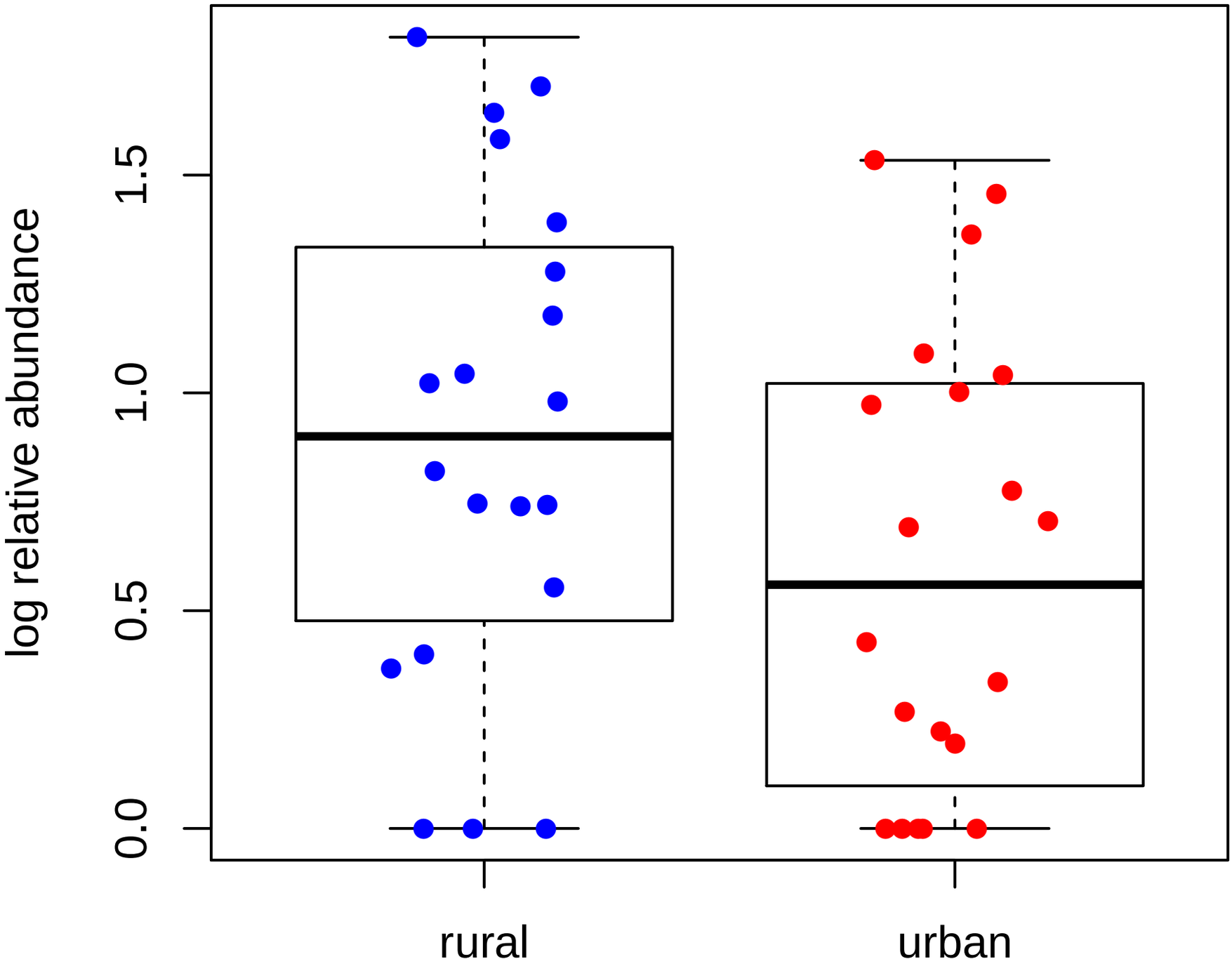

WGS species: Ruminococcus_albus
pAdjRuralUrban= 0.252
log relative abundance
3.0
2.5
2.0
1.5
rural
urban

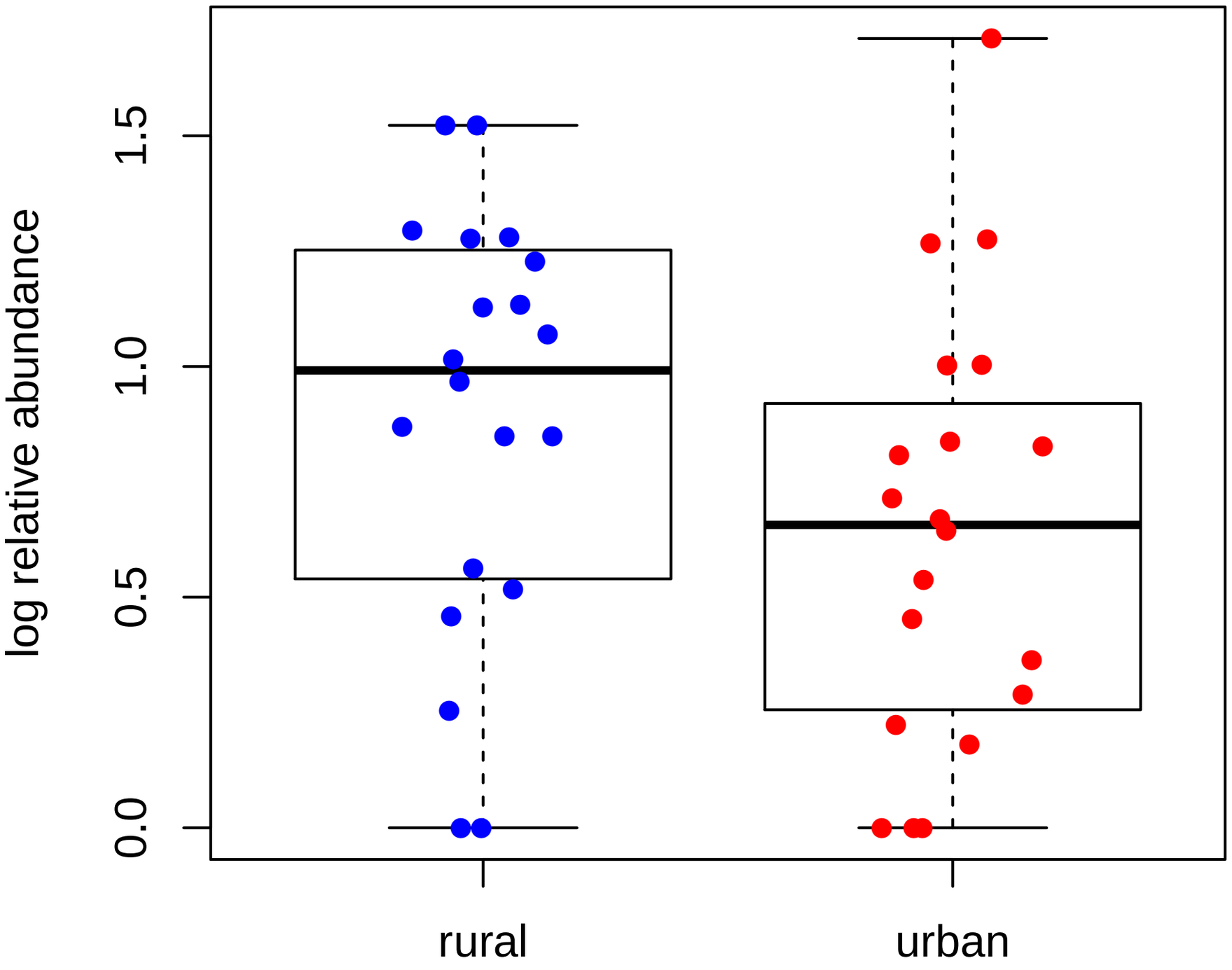

WGS species: Pseudoxanthomonas_suwonensis
pAdjRuralUrban= 0.252
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

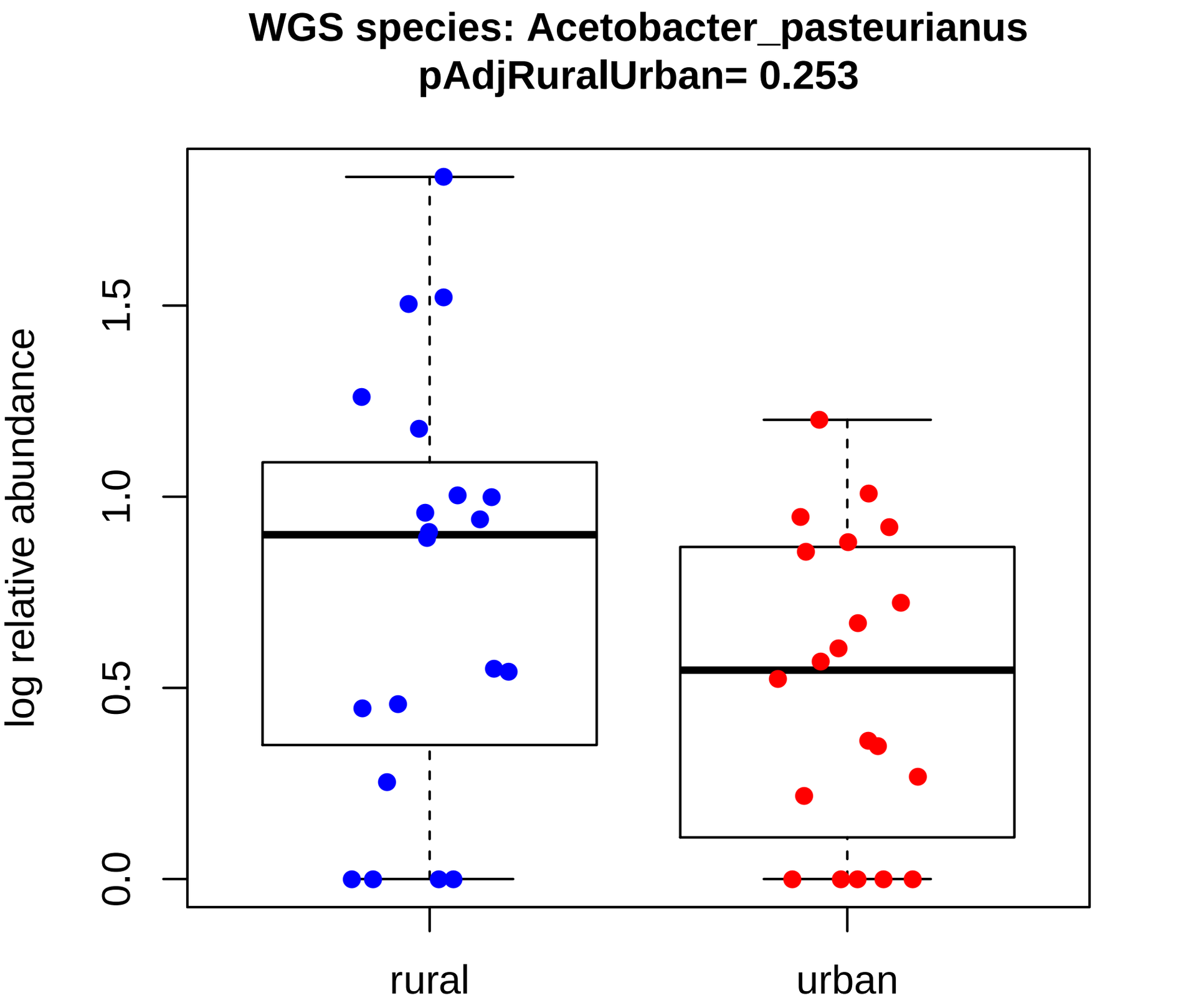

WGS species: Solibacillus_silvestris
pAdjRuralUrban= 0.252
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

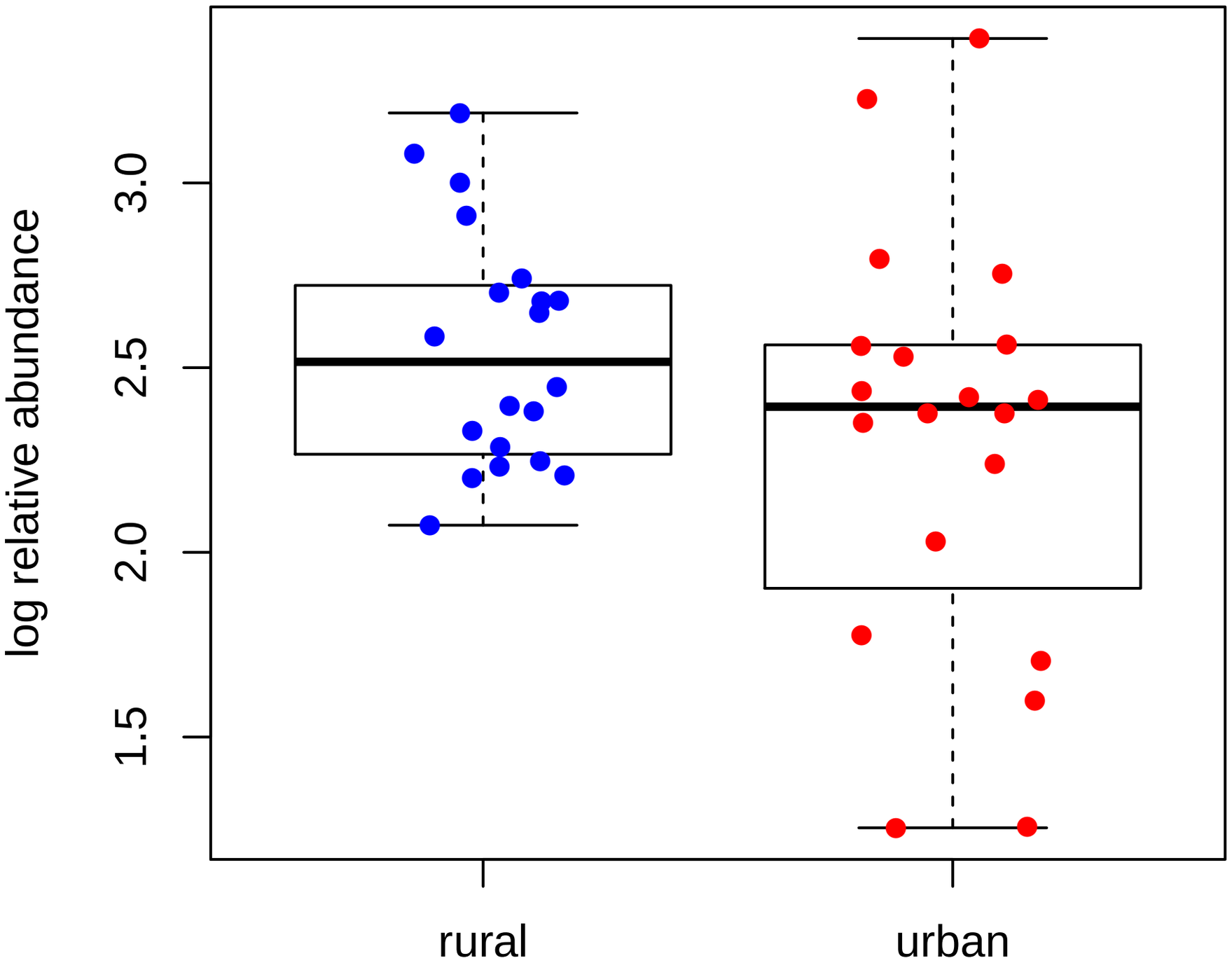

WGS species: Magnetospirillum_gryphiswaldense
pAdjRuralUrban= 0.253
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

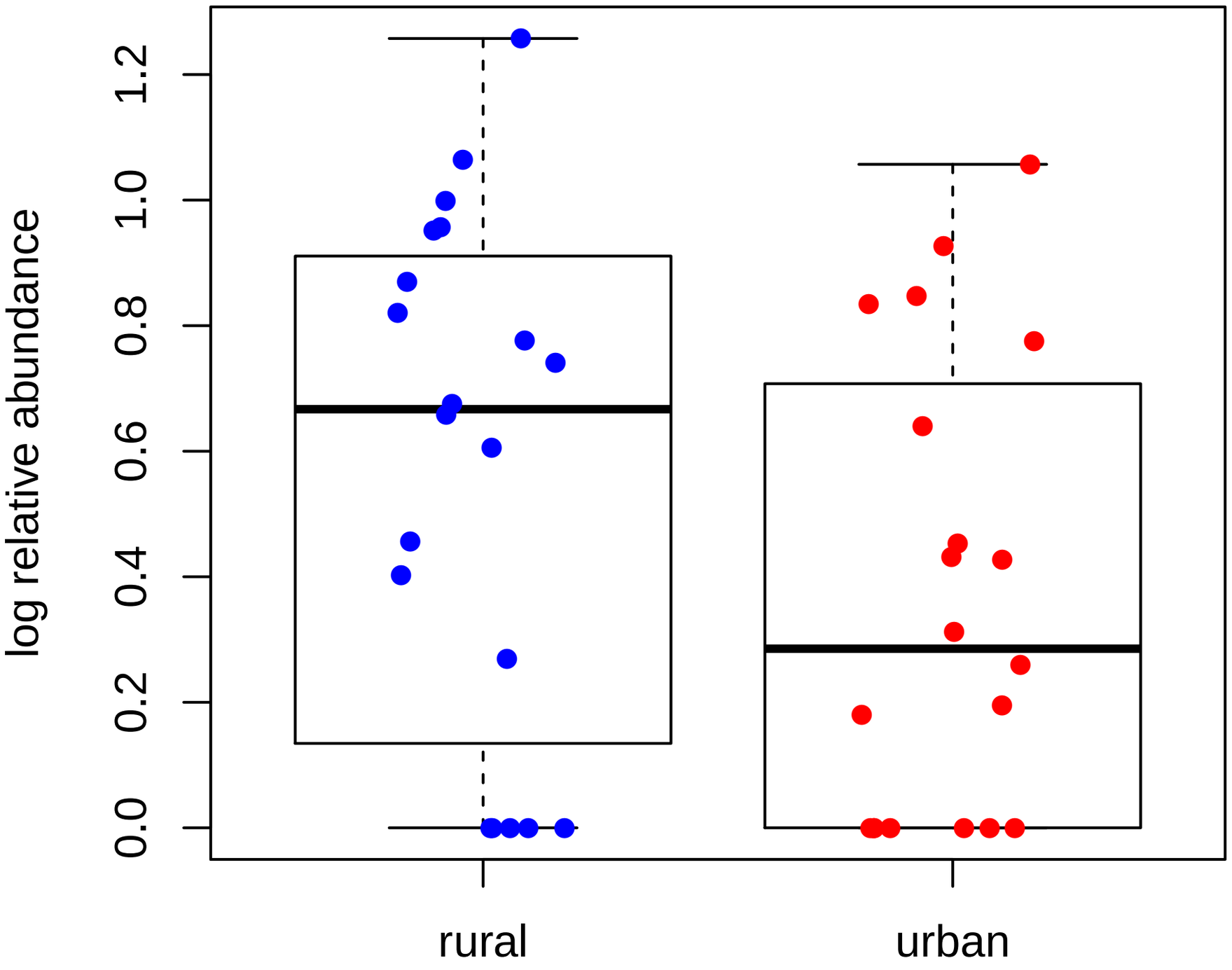

WGS species: Candidatus_Cloacimonas_acidaminovorans
pAdjRuralUrban= 0.253
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

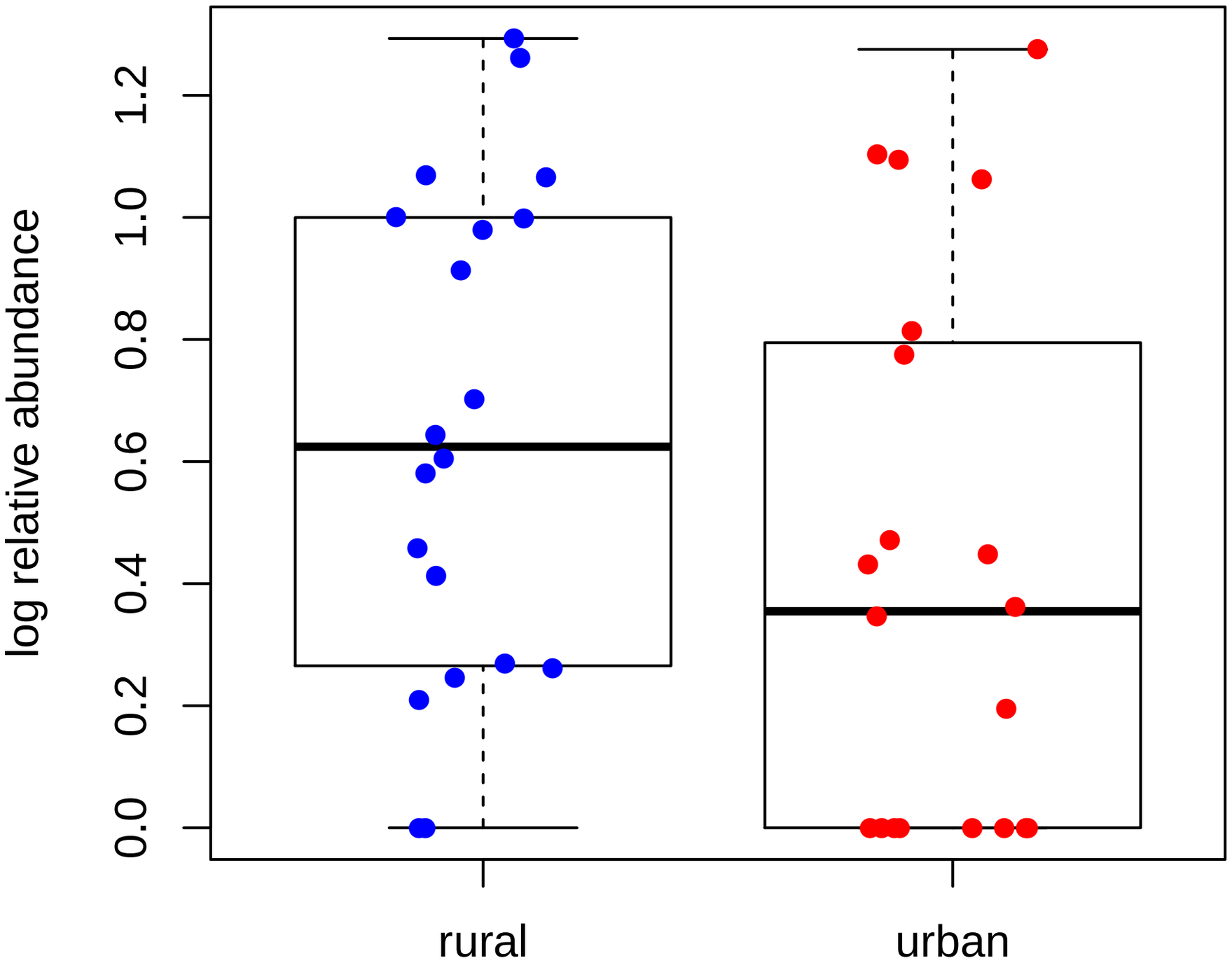

WGS species: Vibrio_furnissii
pAdjRuralUrban= 0.253
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

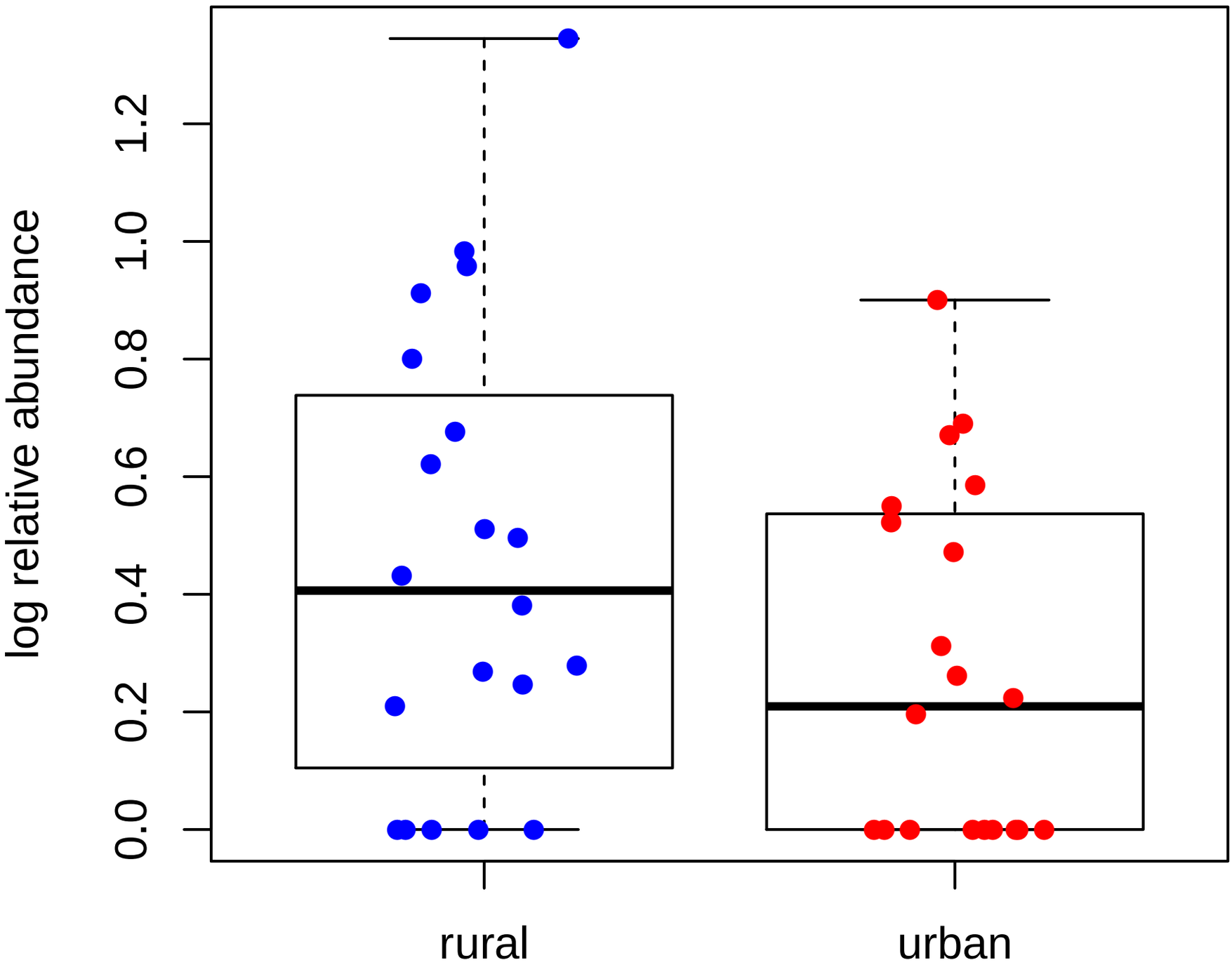

WGS species: Burkholderia_thailandensis
pAdjRuralUrban= 0.253
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

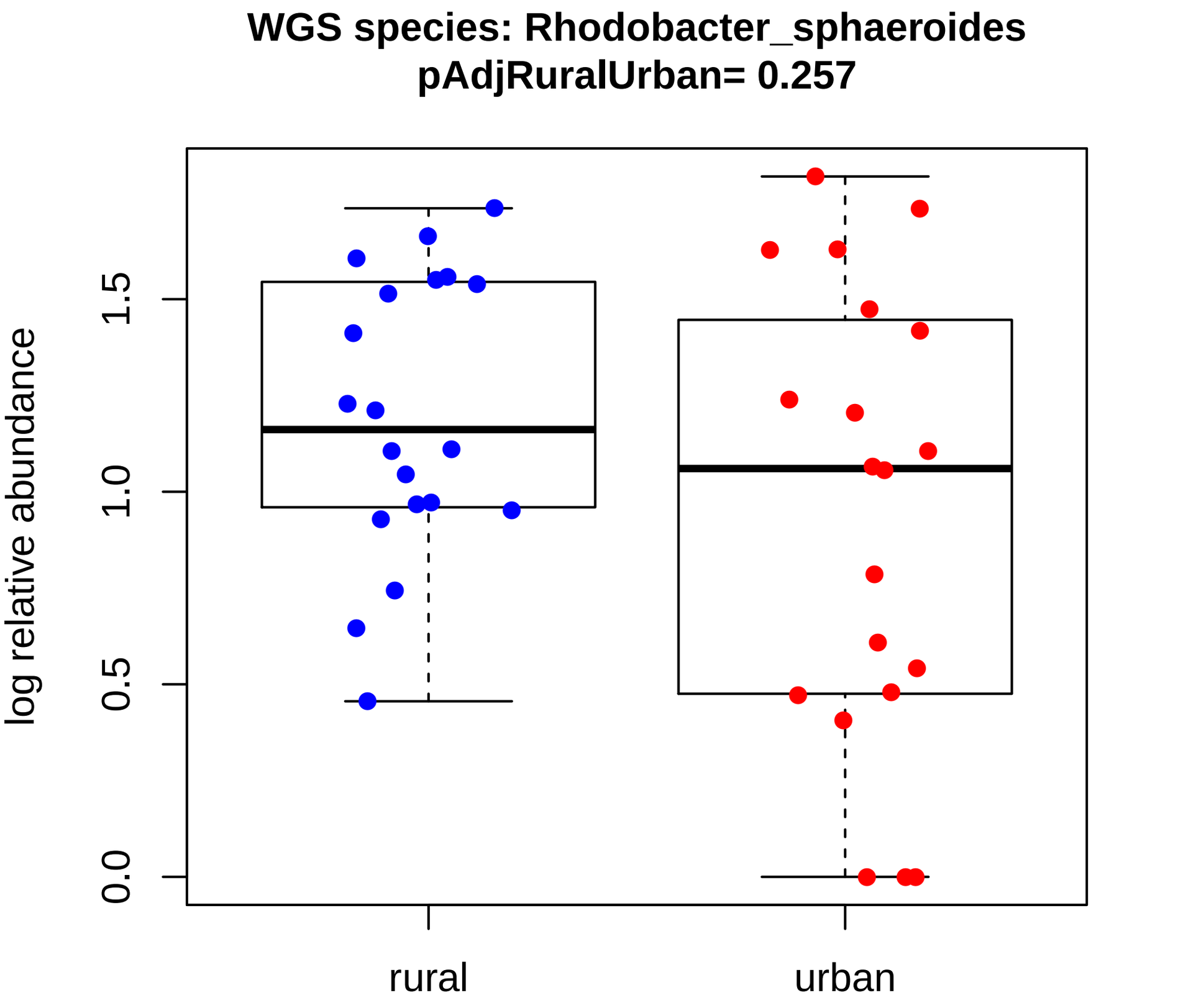

WGS species: Acetobacter_pasteurianus
pAdjRuralUrban= 0.253
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

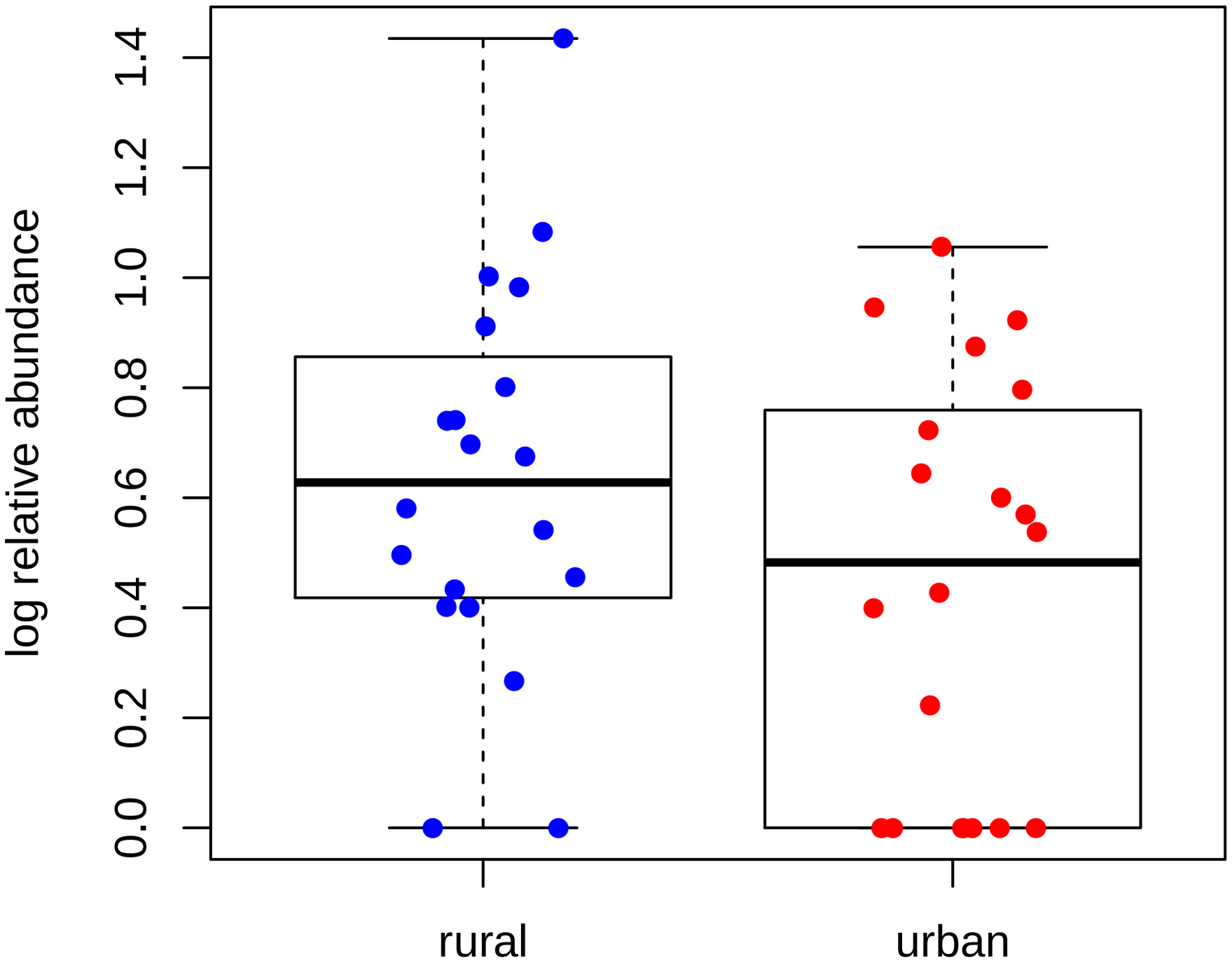

WGS species: Streptococcus_pyogenes
pAdjRuralUrban= 0.253
log relative abundance
3.0
2.5
2.0
1.5
rural
urban

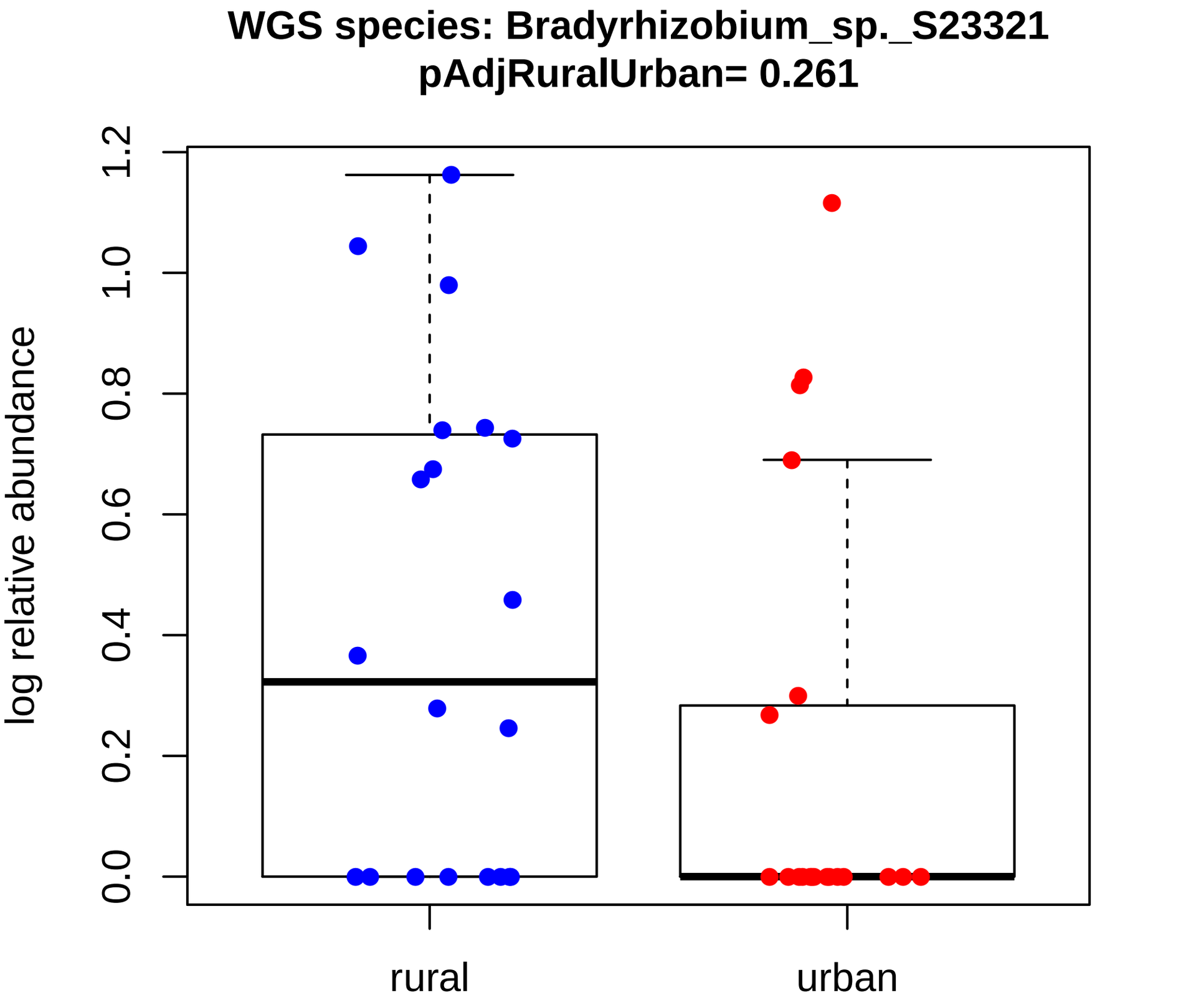

WGS species: Lactobacillus_rhamnosus
pAdjRuralUrban= 0.255
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

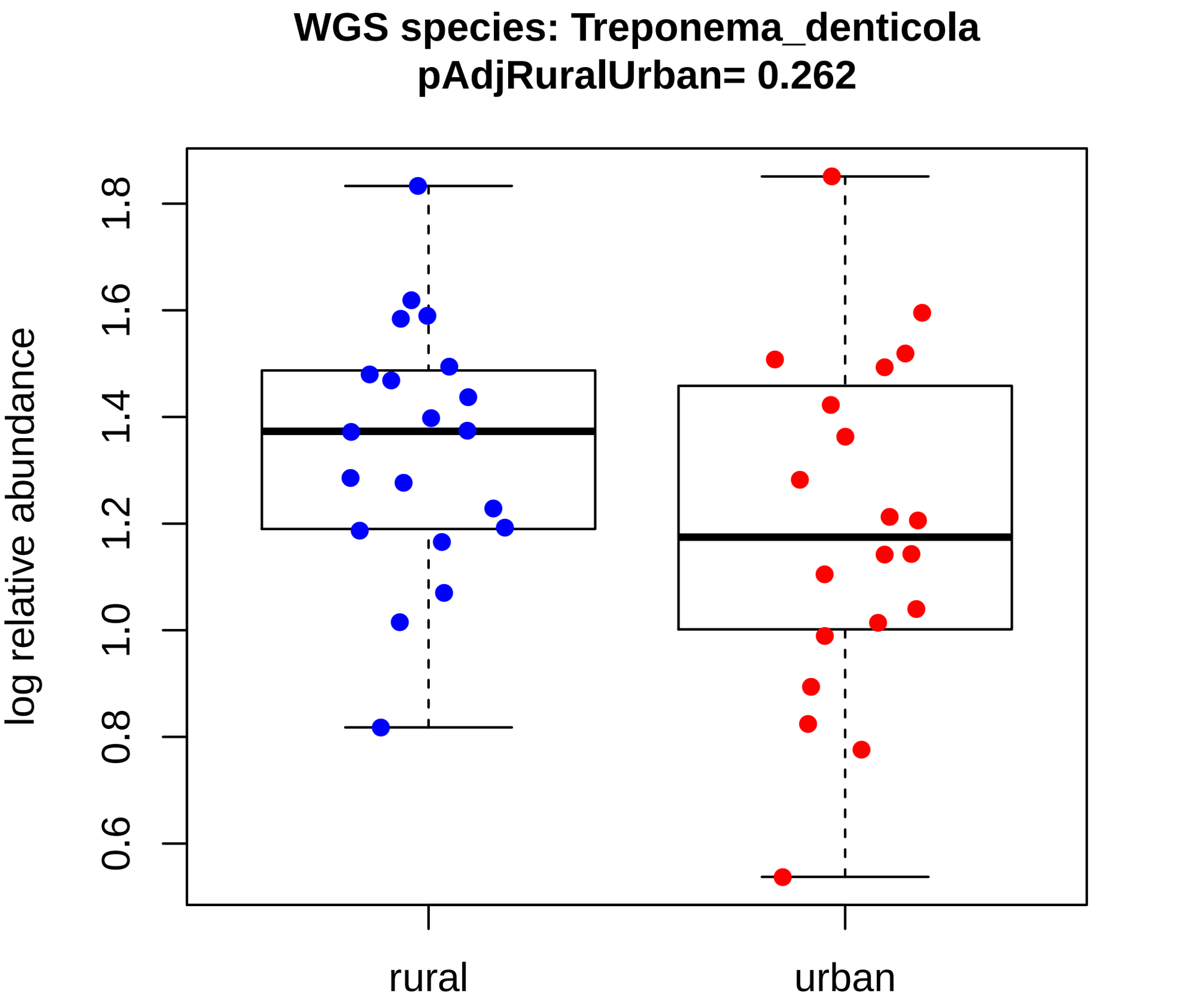

WGS species: Conexibacter_woesei
pAdjRuralUrban= 0.256
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

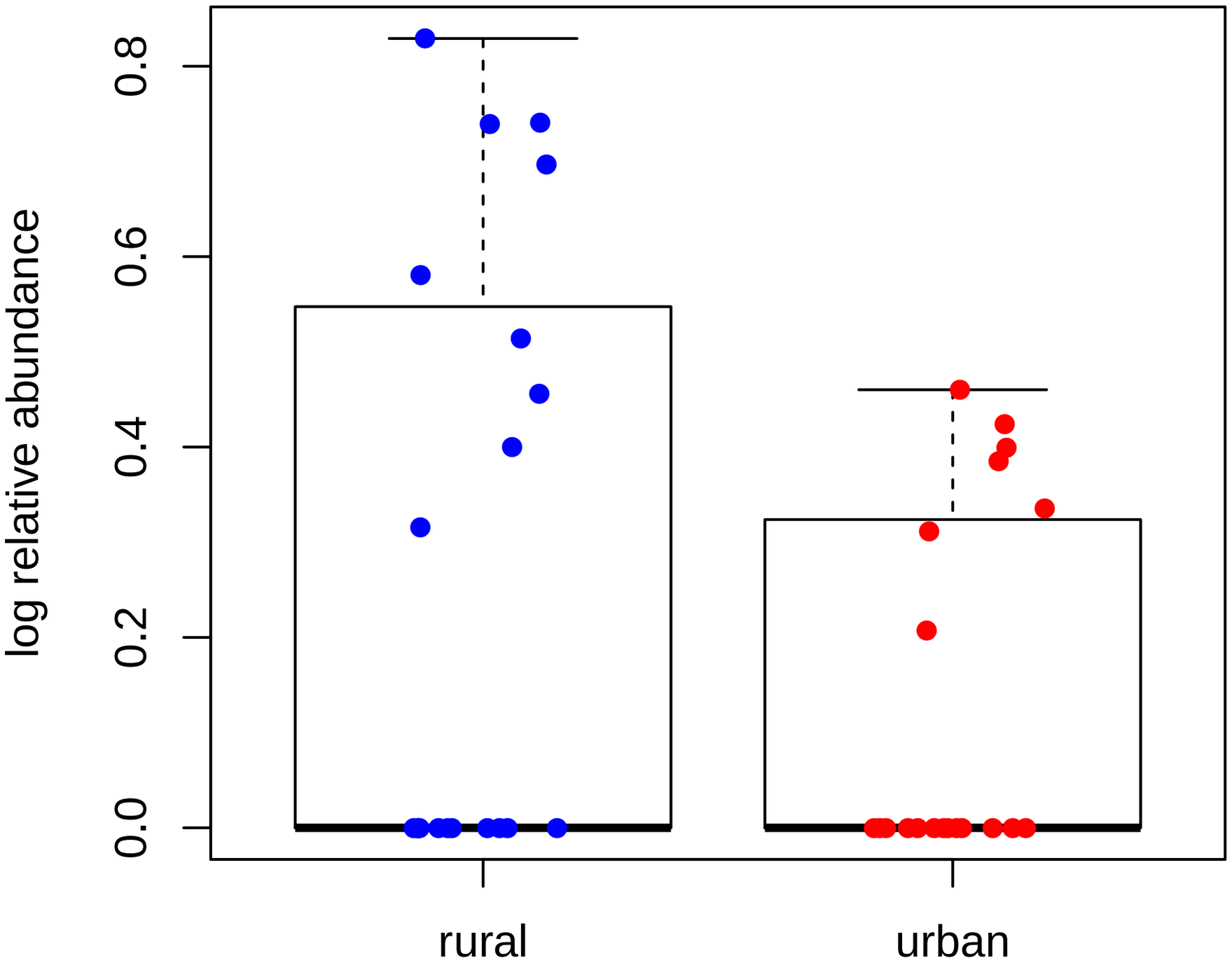

WGS species: Ketogulonicigenium_vulgare
pAdjRuralUrban= 0.256
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

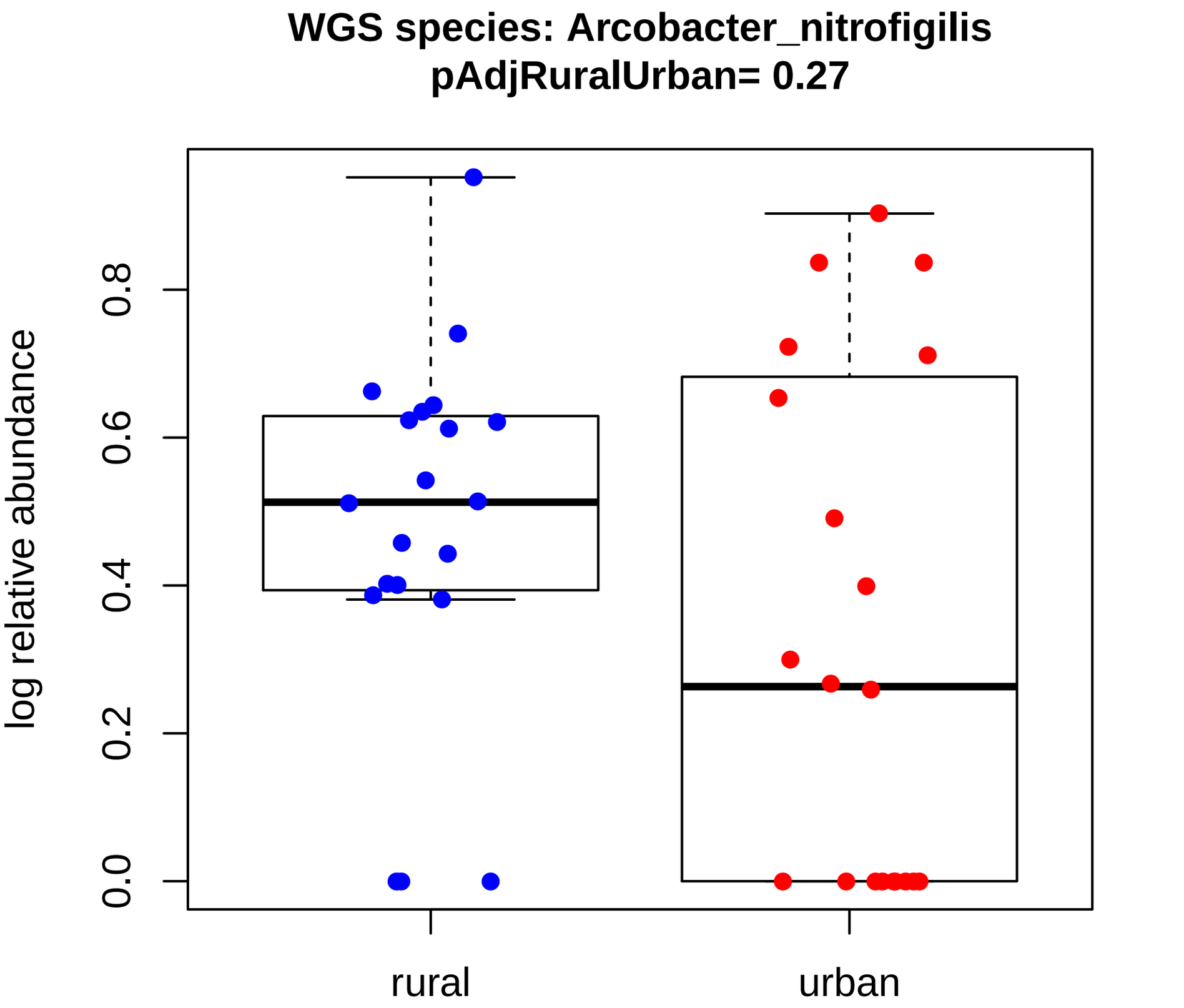

WGS species: Rhodobacter_sphaeroides
pAdjRuralUrban= 0.257
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

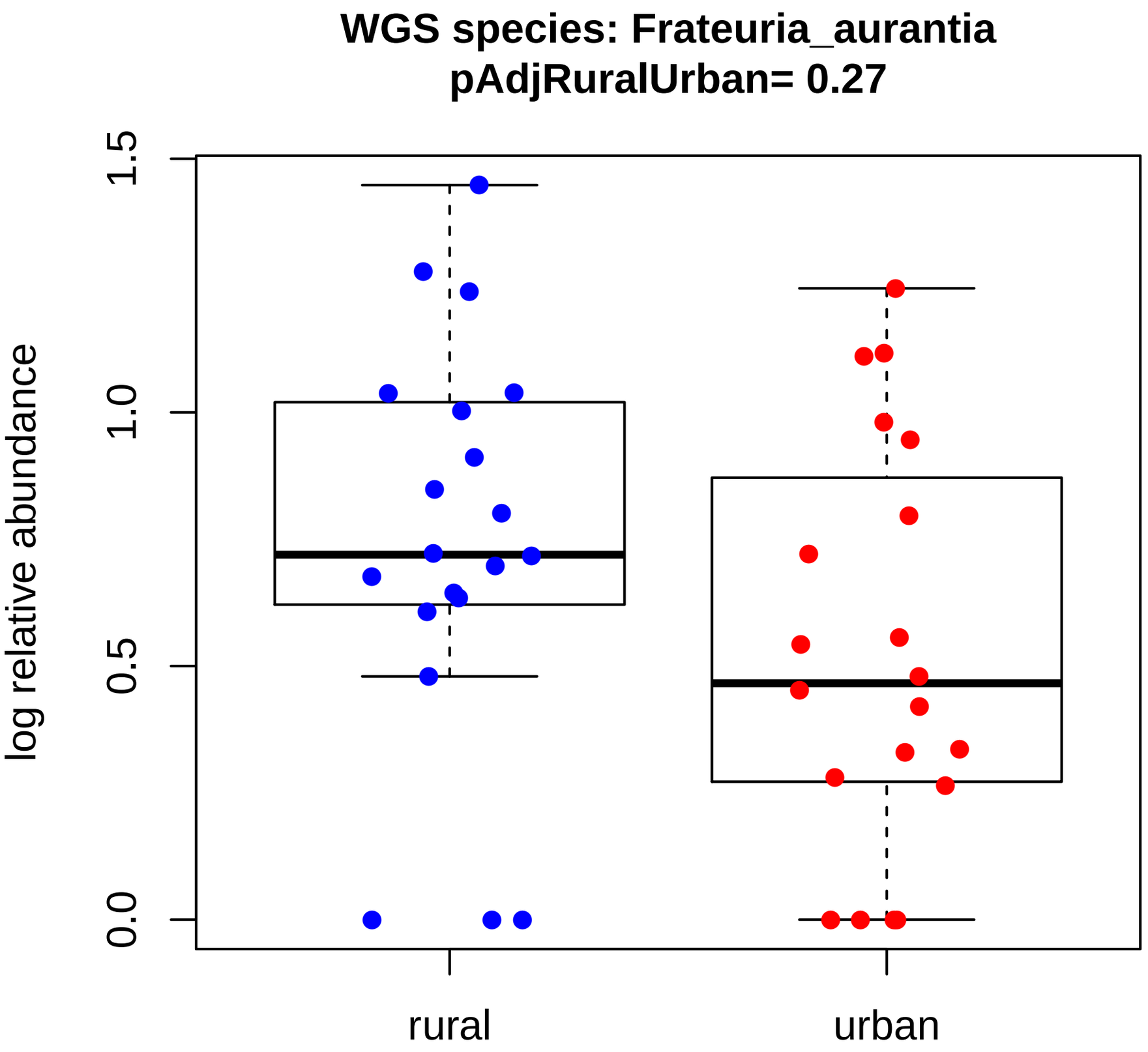

WGS species: Pseudomonas_resinovorans
pAdjRuralUrban= 0.257
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

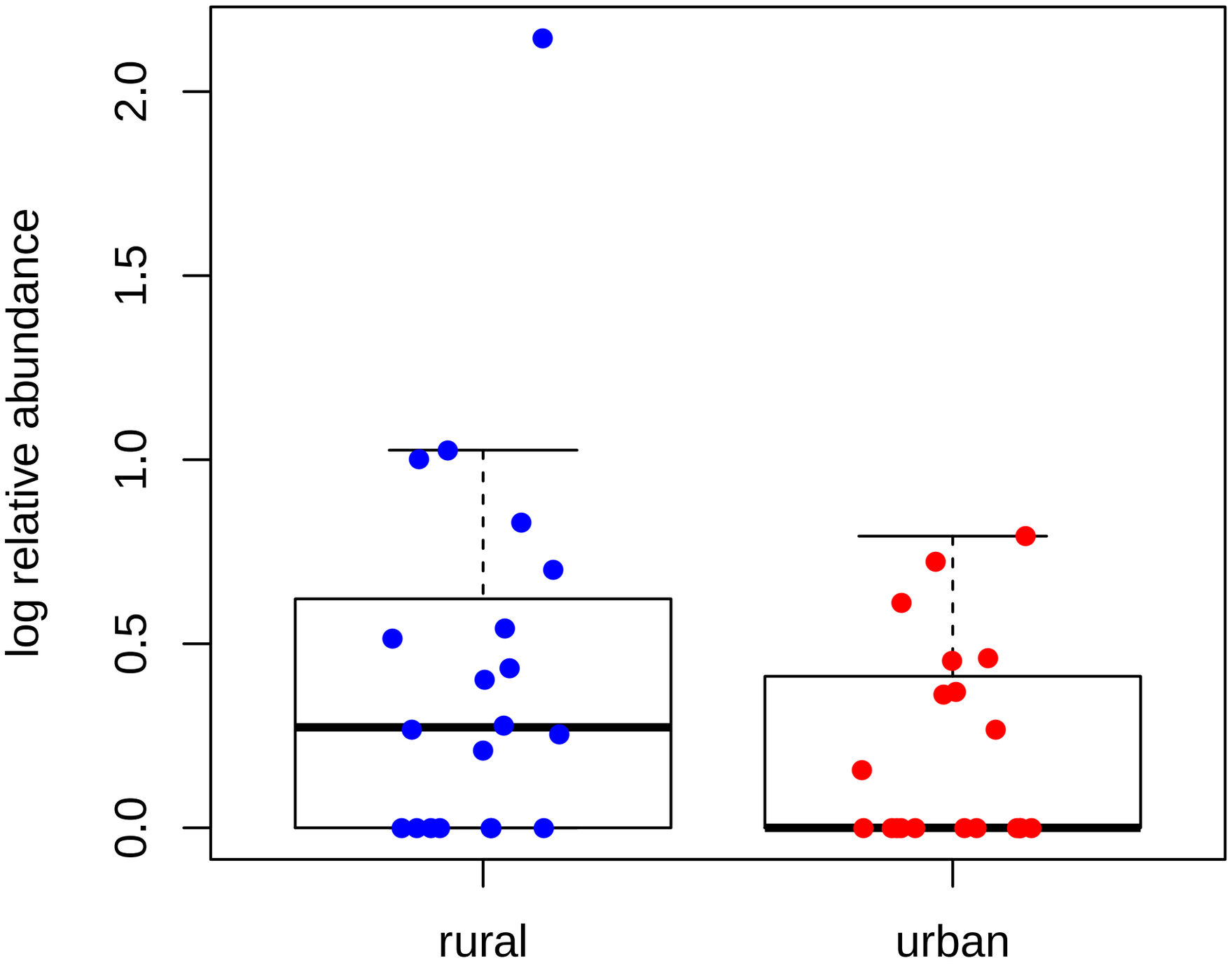

WGS species: Bradyrhizobium_sp._S23321
pAdjRuralUrban= 0.261
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

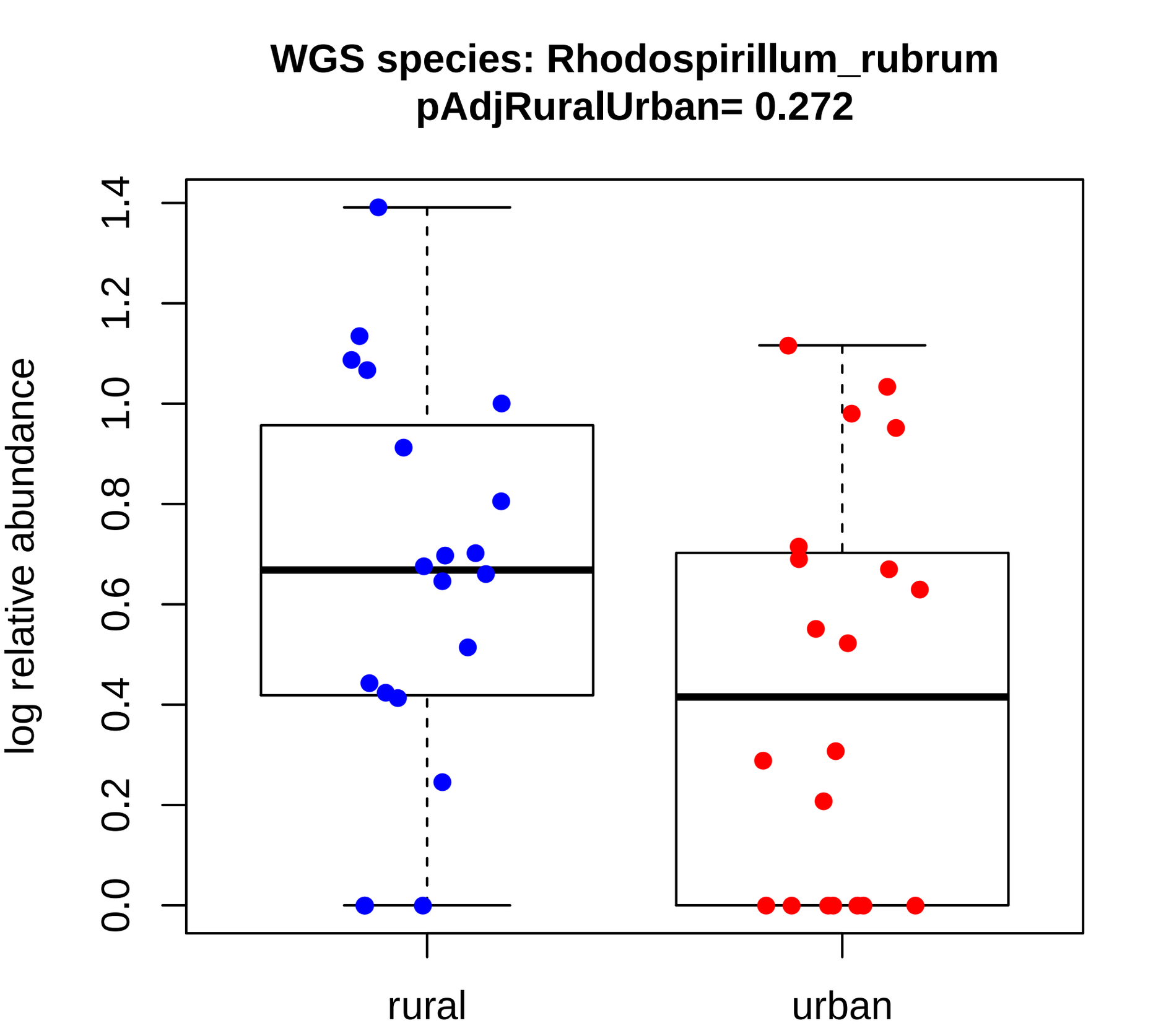

WGS species: Treponema_denticola
pAdjRuralUrban= 0.262
log relative abundance
0.6
0.8
1.0
1.2
1.4
1.6
1.8
rural
urban

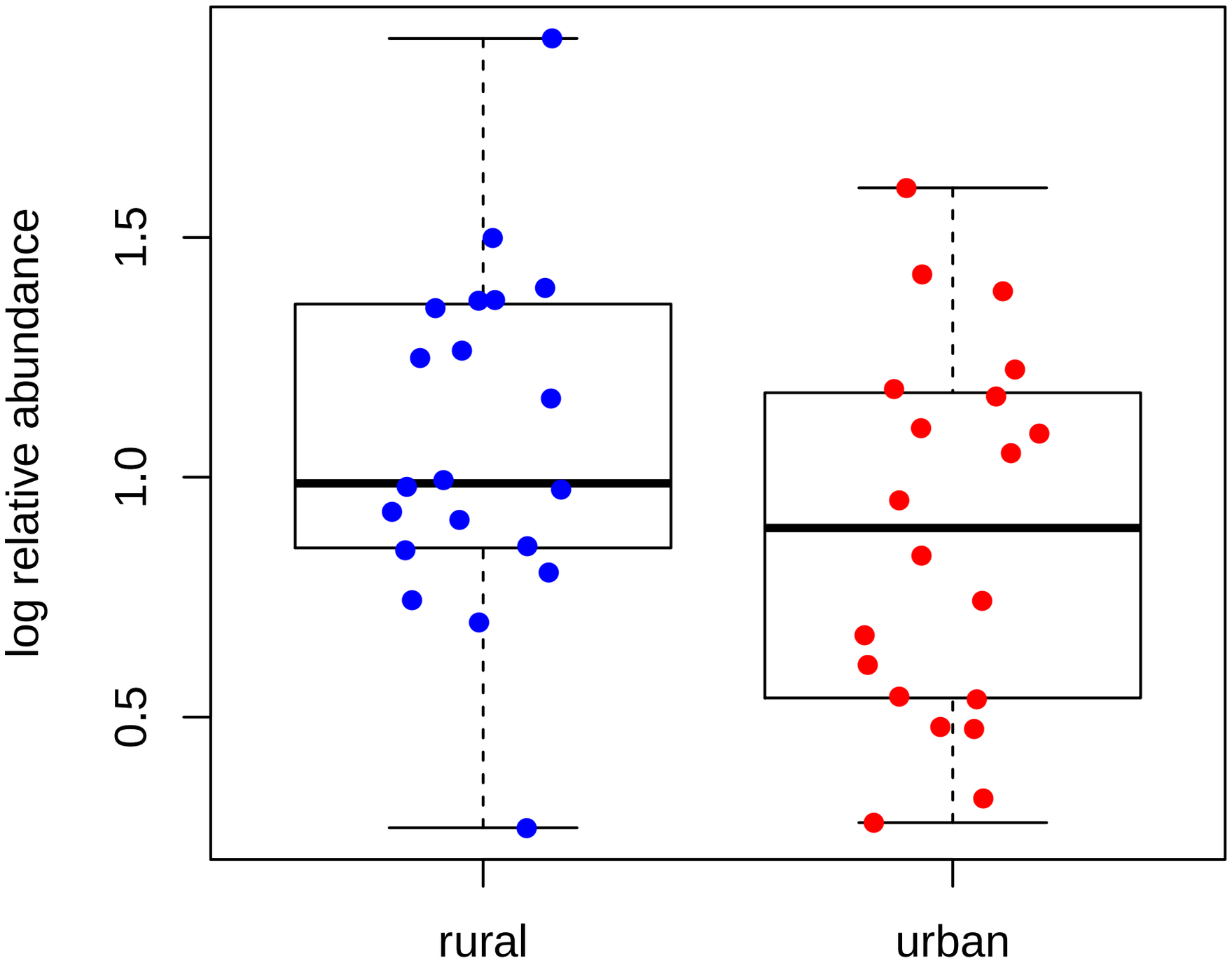

WGS species: Zobellia_galactanivorans
pAdjRuralUrban= 0.266
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

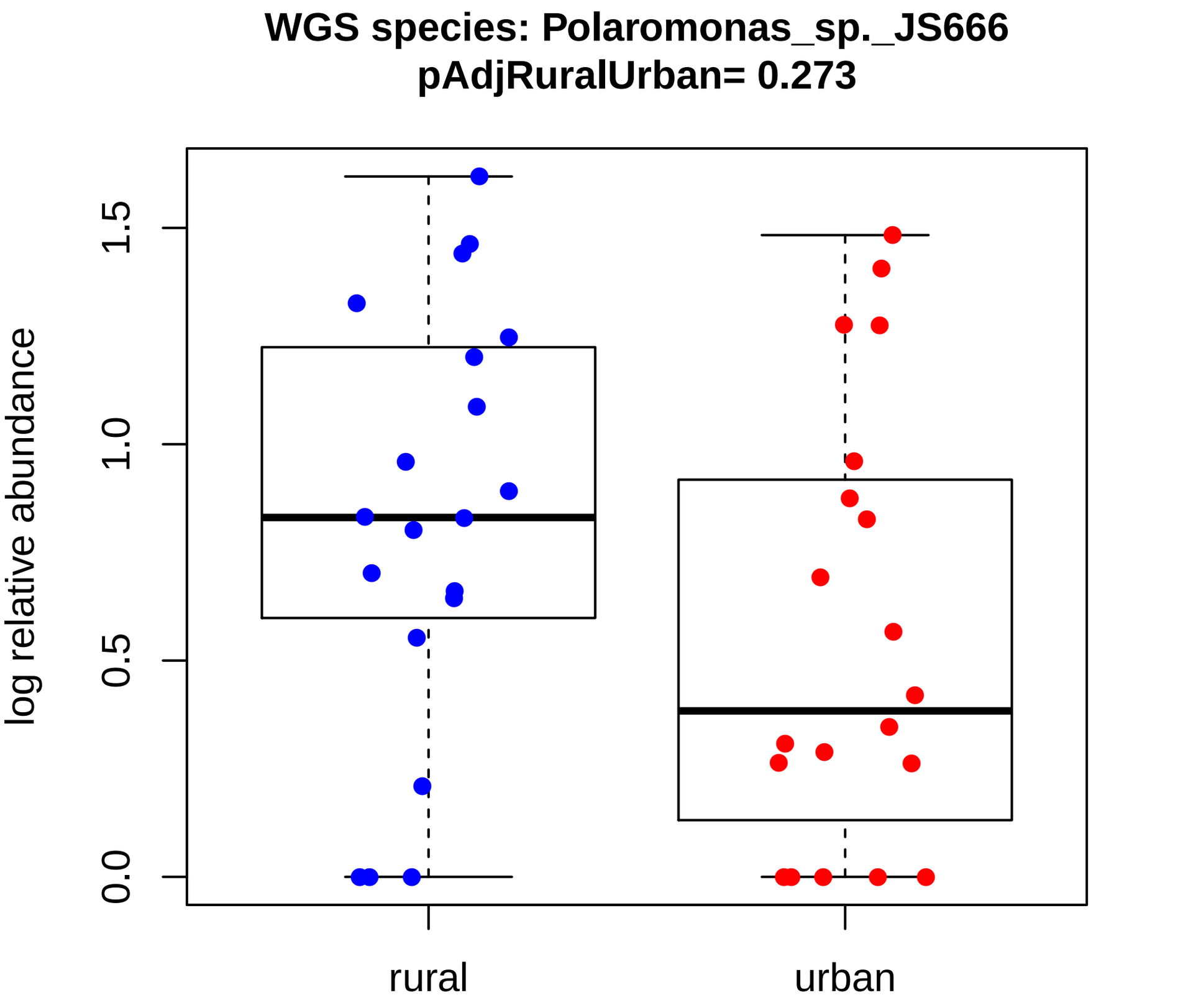

WGS species: Arcobacter_nitrofigilis
pAdjRuralUrban= 0.27
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

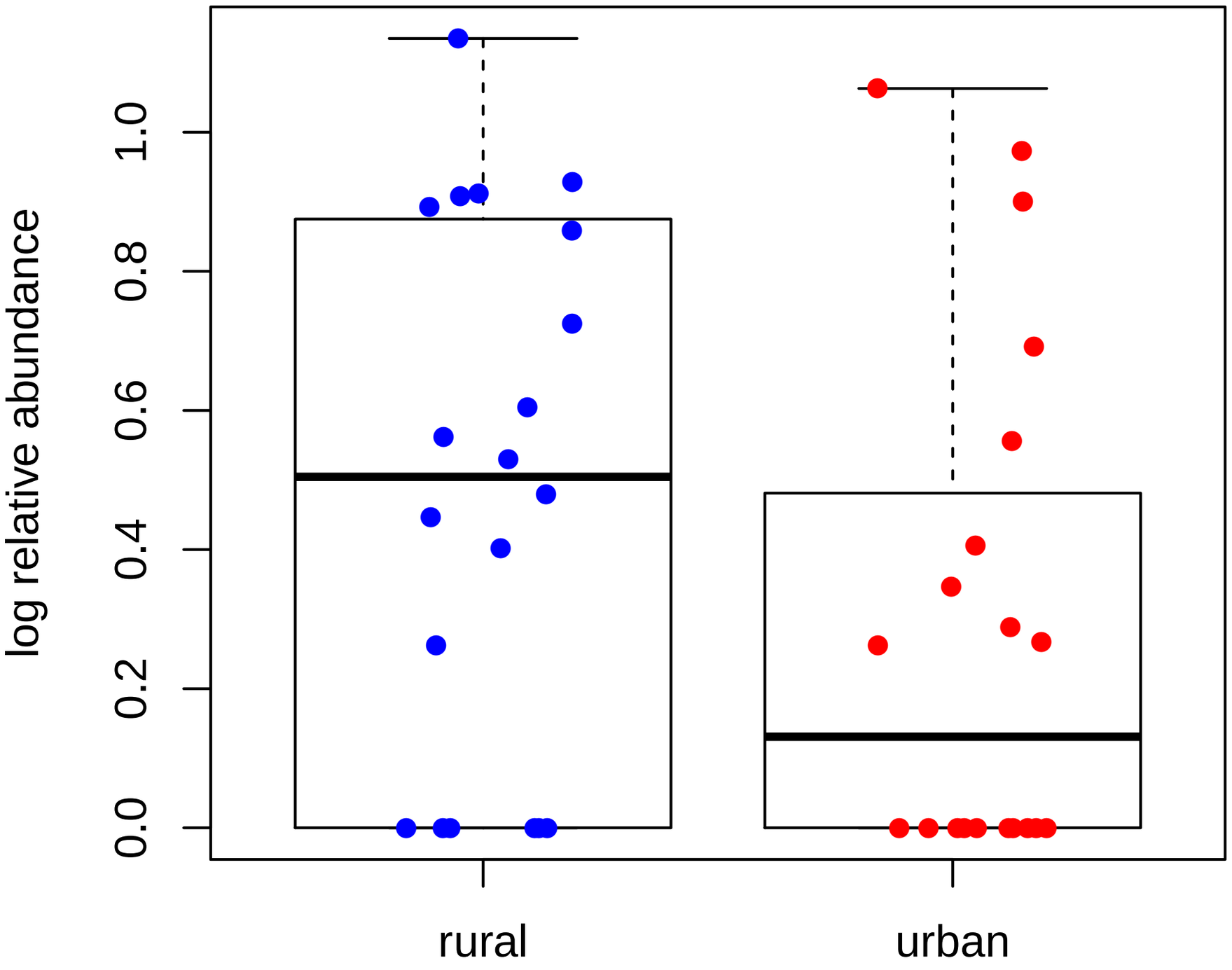

WGS species: Frateuria_aurantia
pAdjRuralUrban= 0.27
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

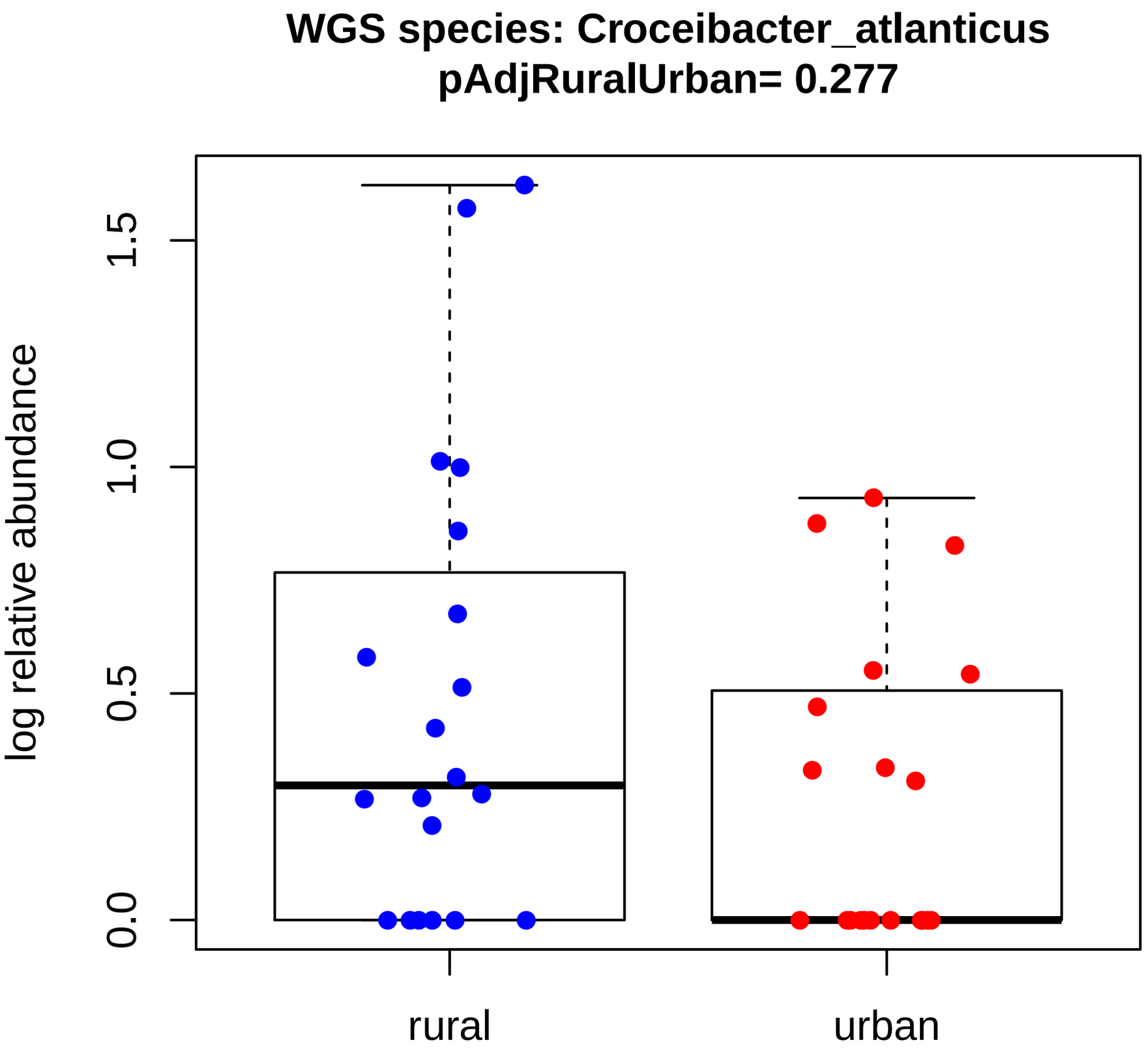

WGS species: Psychrobacter_sp._PRwf.1
pAdjRuralUrban= 0.27
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

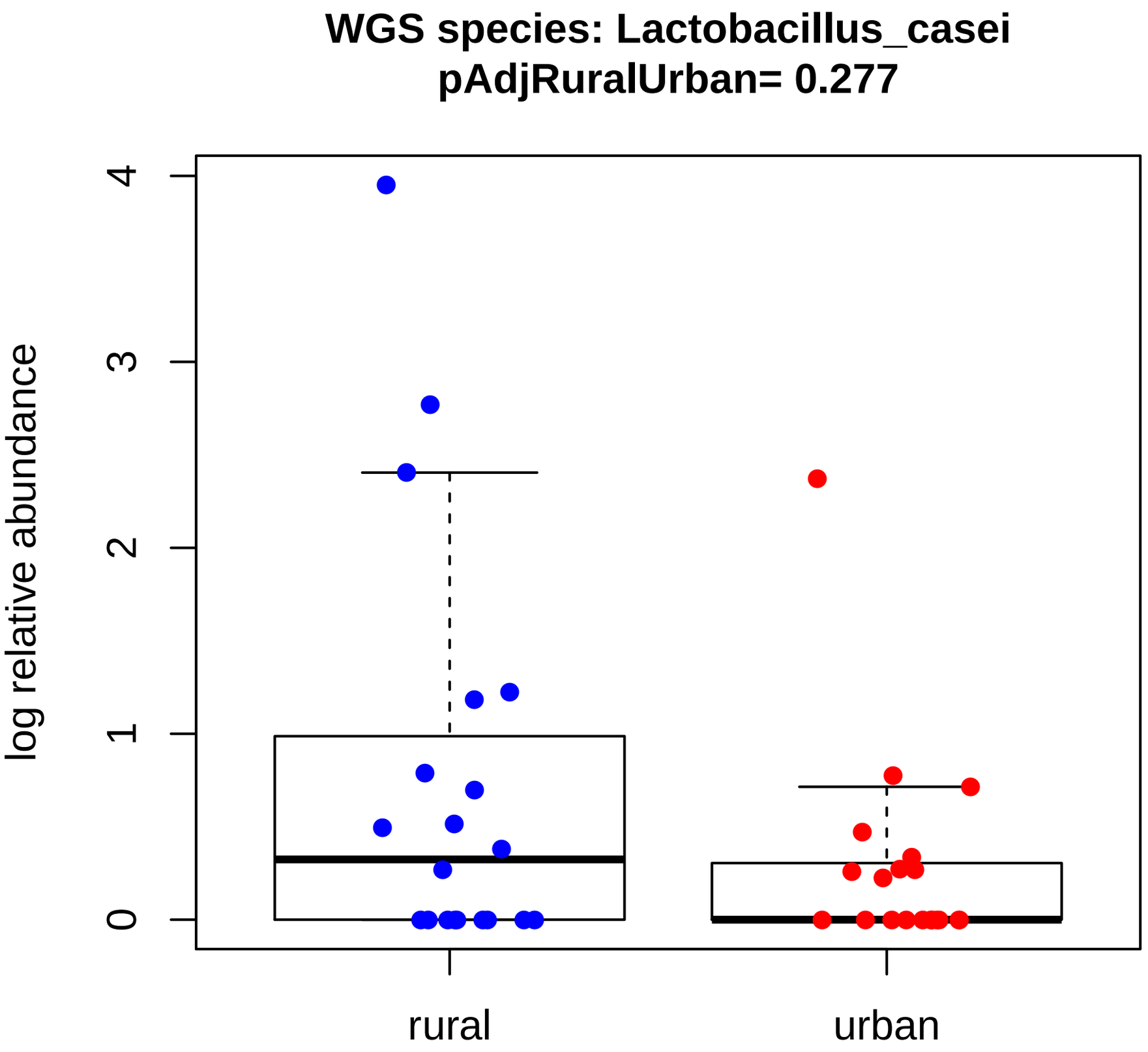

WGS species: Rhodospirillum_rubrum
pAdjRuralUrban= 0.272
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

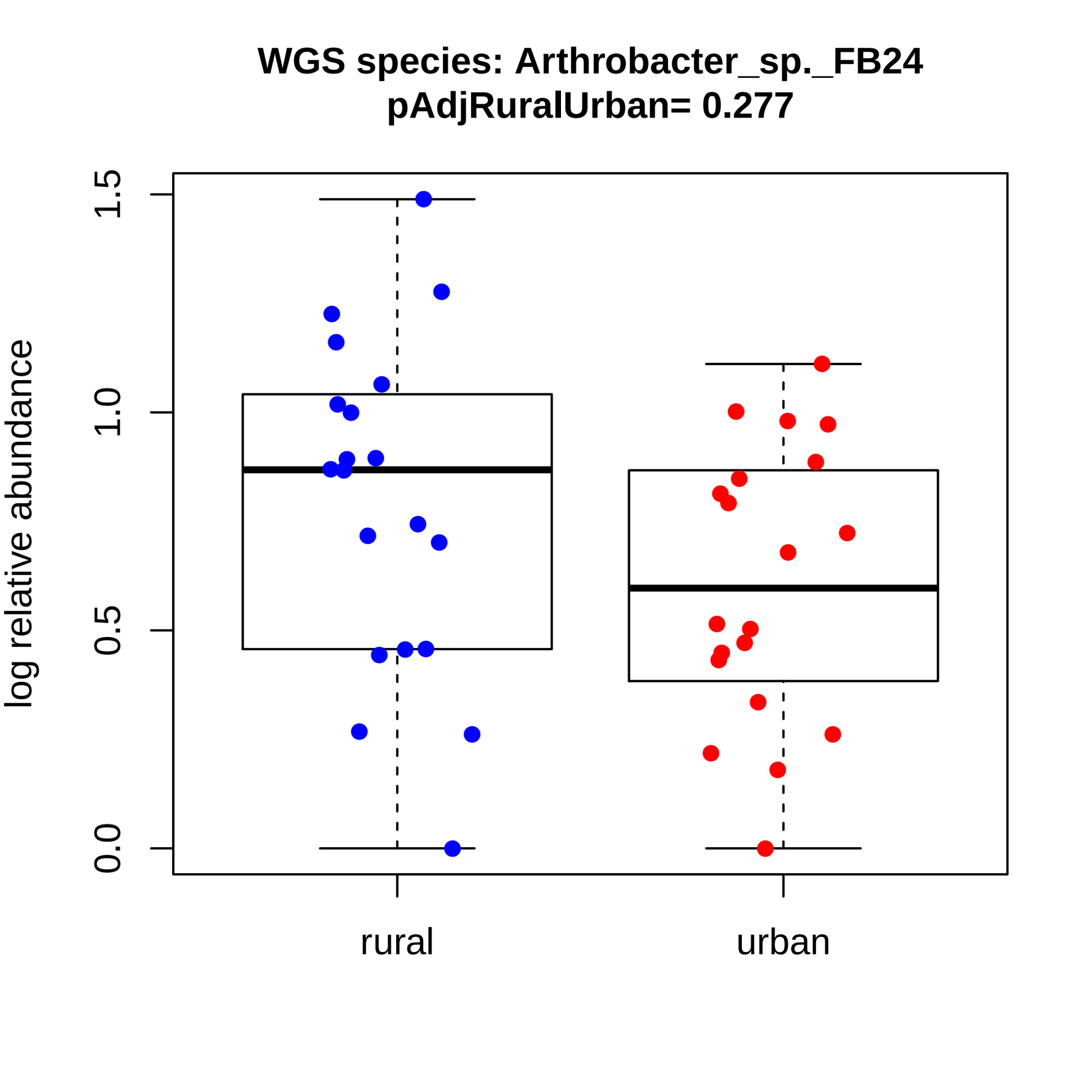

WGS species: Clostridium_acetobutylicum
pAdjRuralUrban= 0.273
log relative abundance
0.5
1.0
1.5
rural
urban

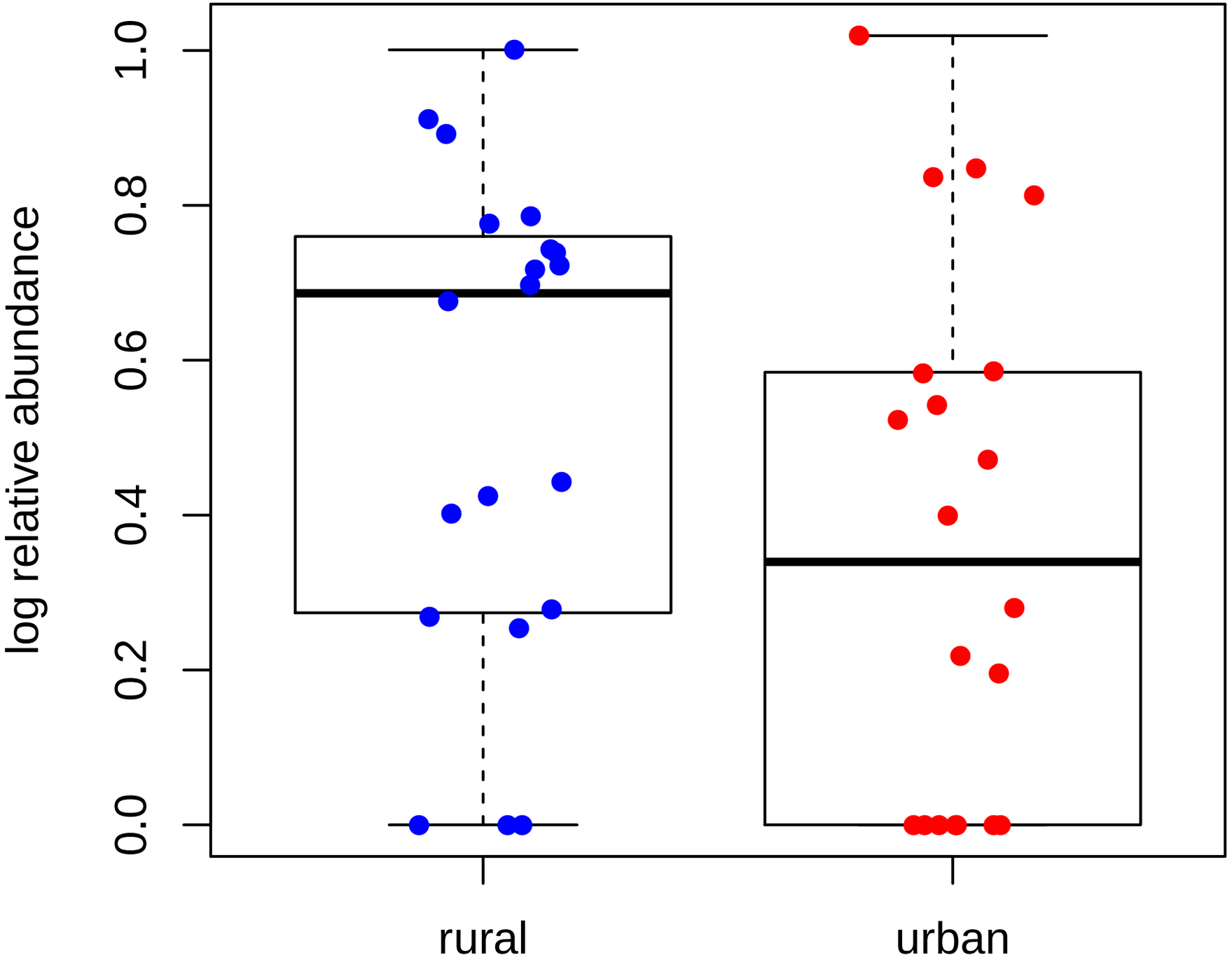

WGS species: Polaromonas_sp._JS666
pAdjRuralUrban= 0.273
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

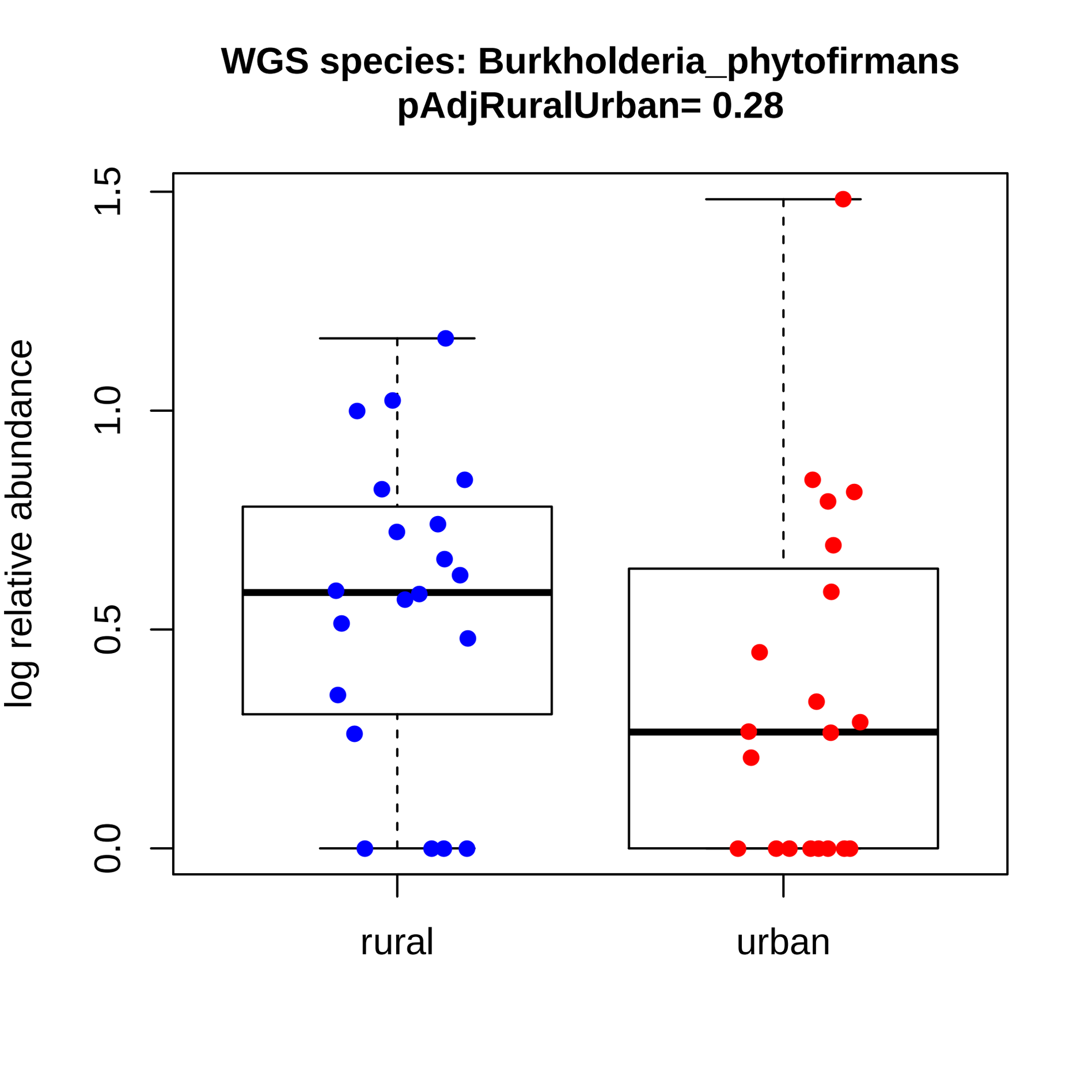

WGS species: Intrasporangium_calvum
pAdjRuralUrban= 0.277
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

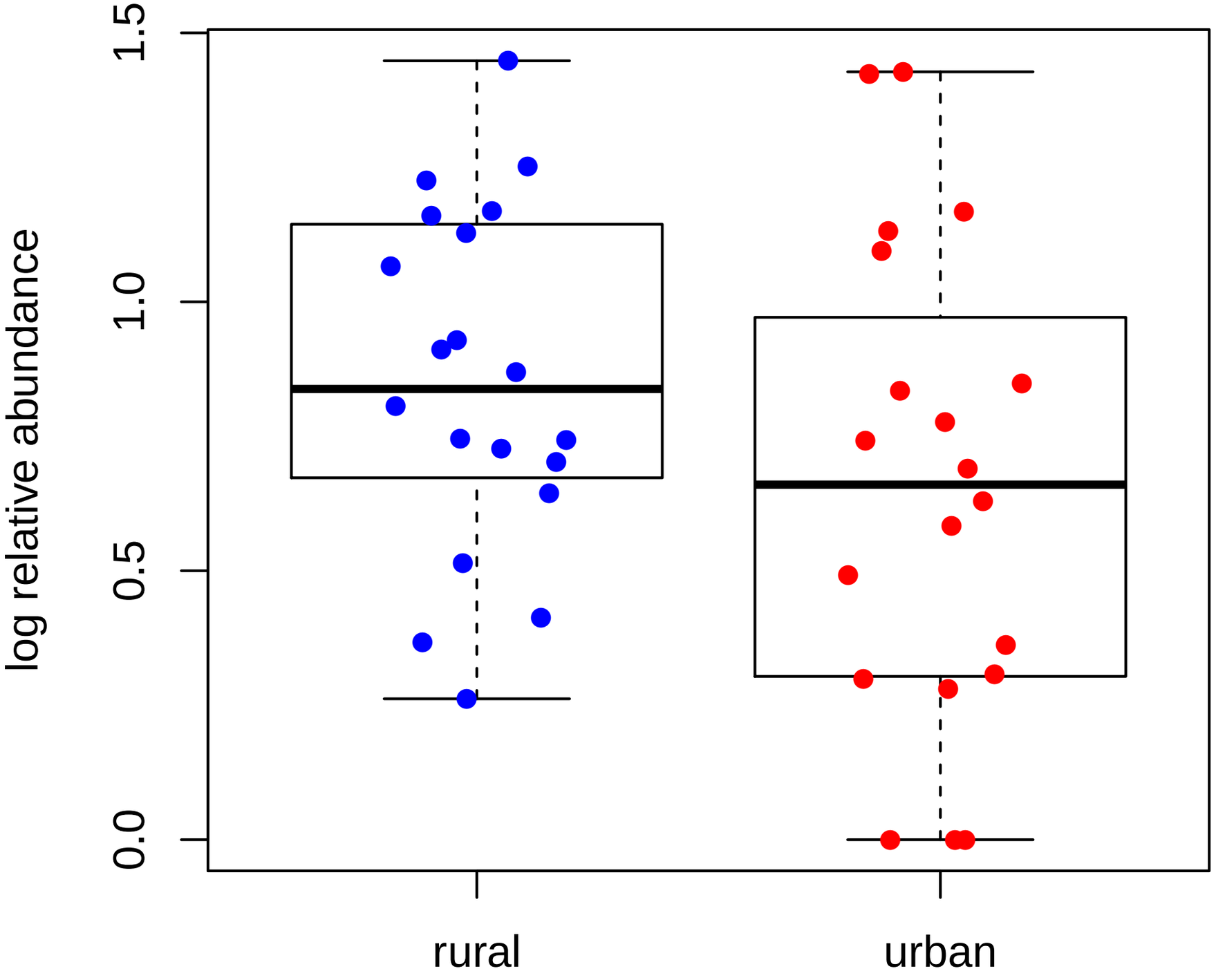

WGS species: Croceibacter_atlanticus
pAdjRuralUrban= 0.277
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

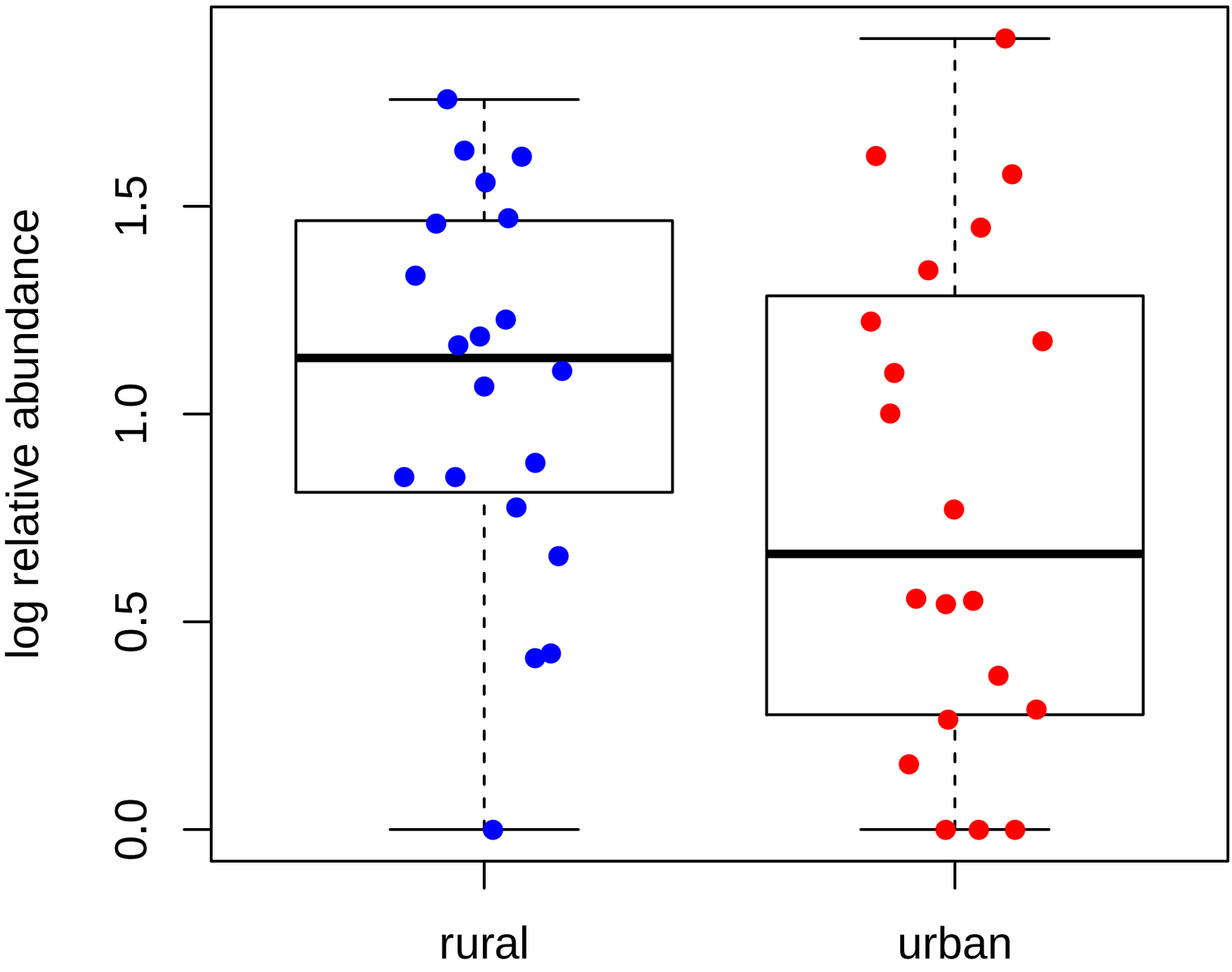

WGS species: Lactobacillus_casei
pAdjRuralUrban= 0.277
log relative abundance
0
1
2
3
4
rural
urban

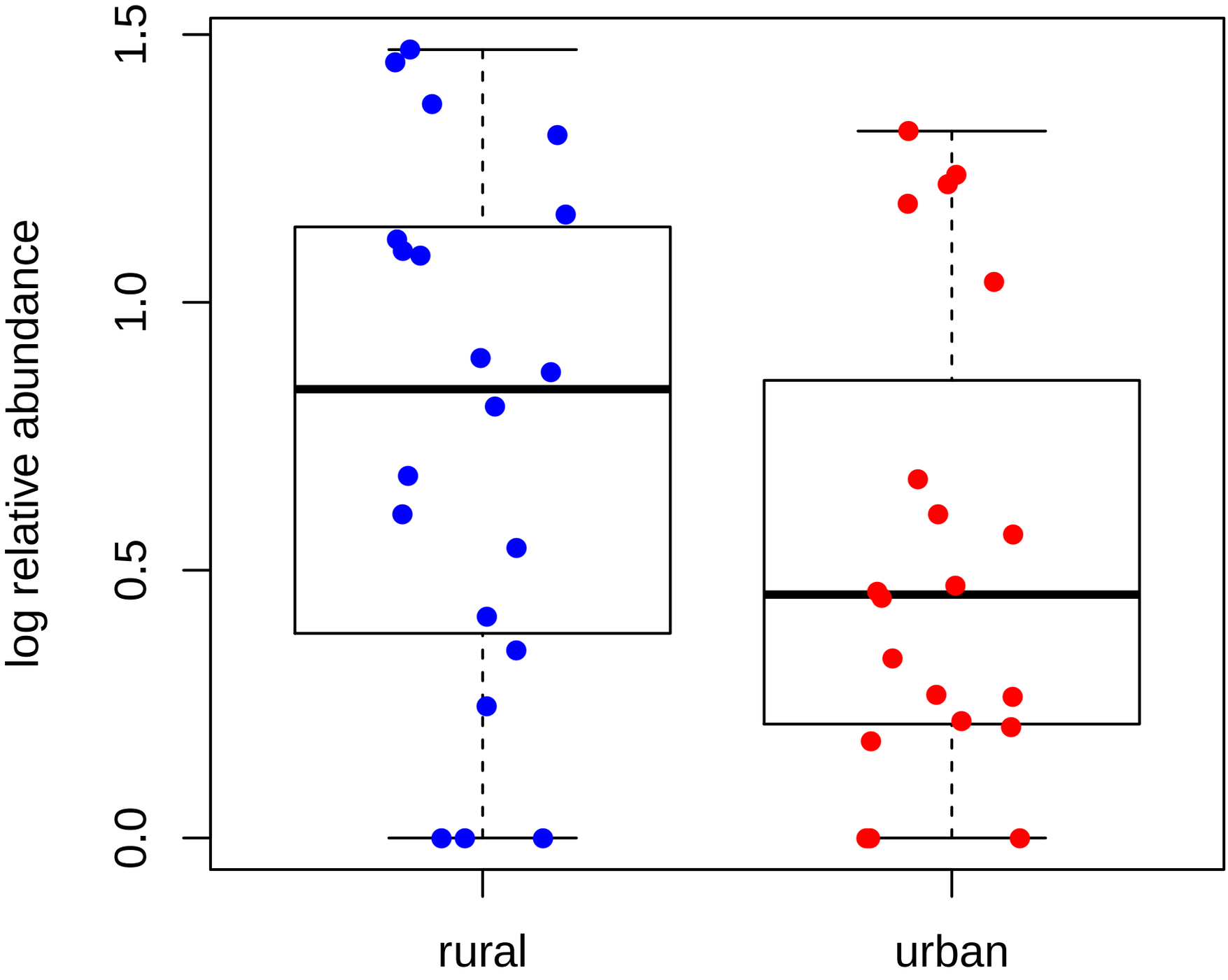

WGS species: Arthrobacter_sp._FB24
pAdjRuralUrban= 0.277
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

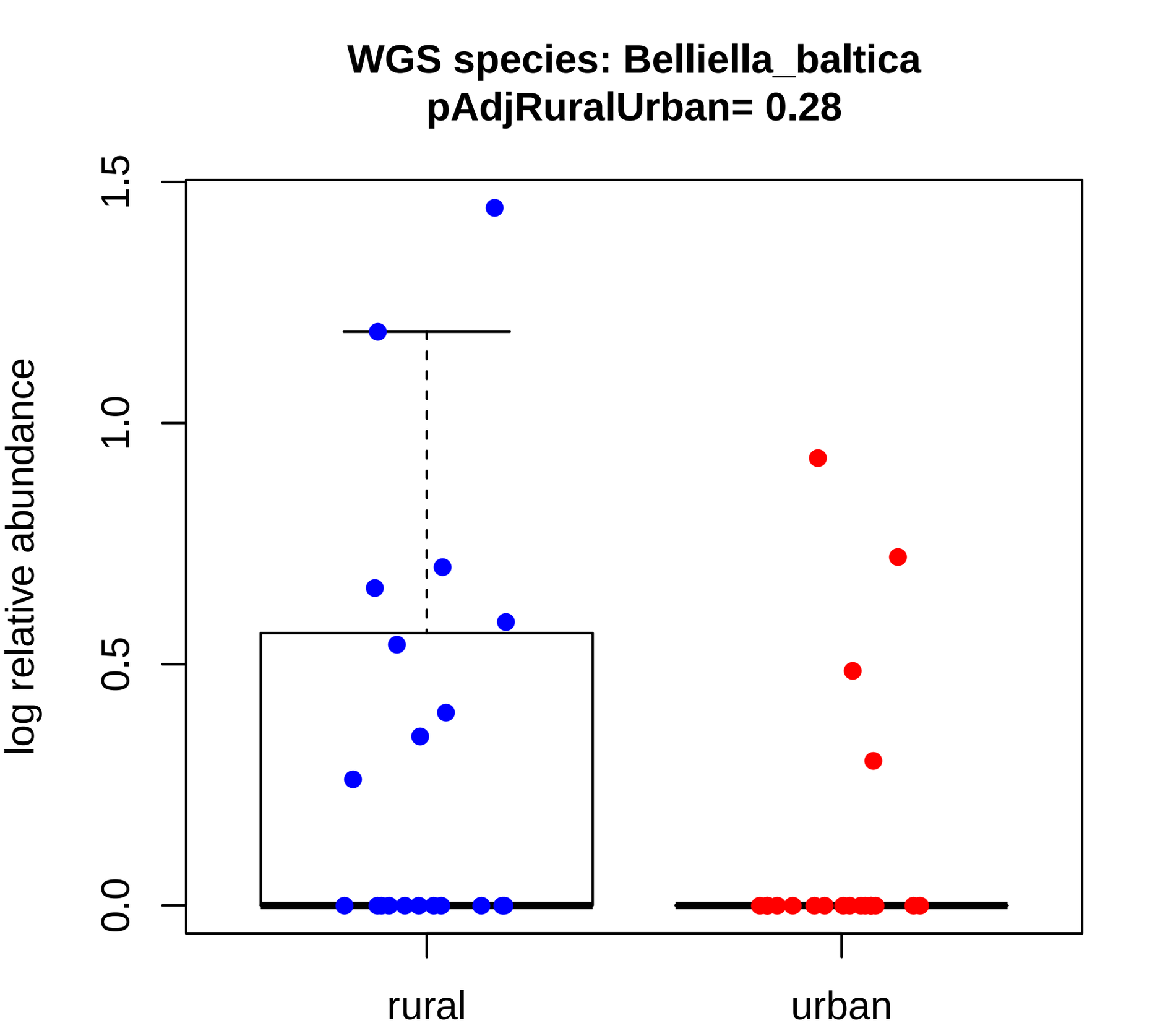

WGS species: Xanthomonas_campestris
pAdjRuralUrban= 0.277
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

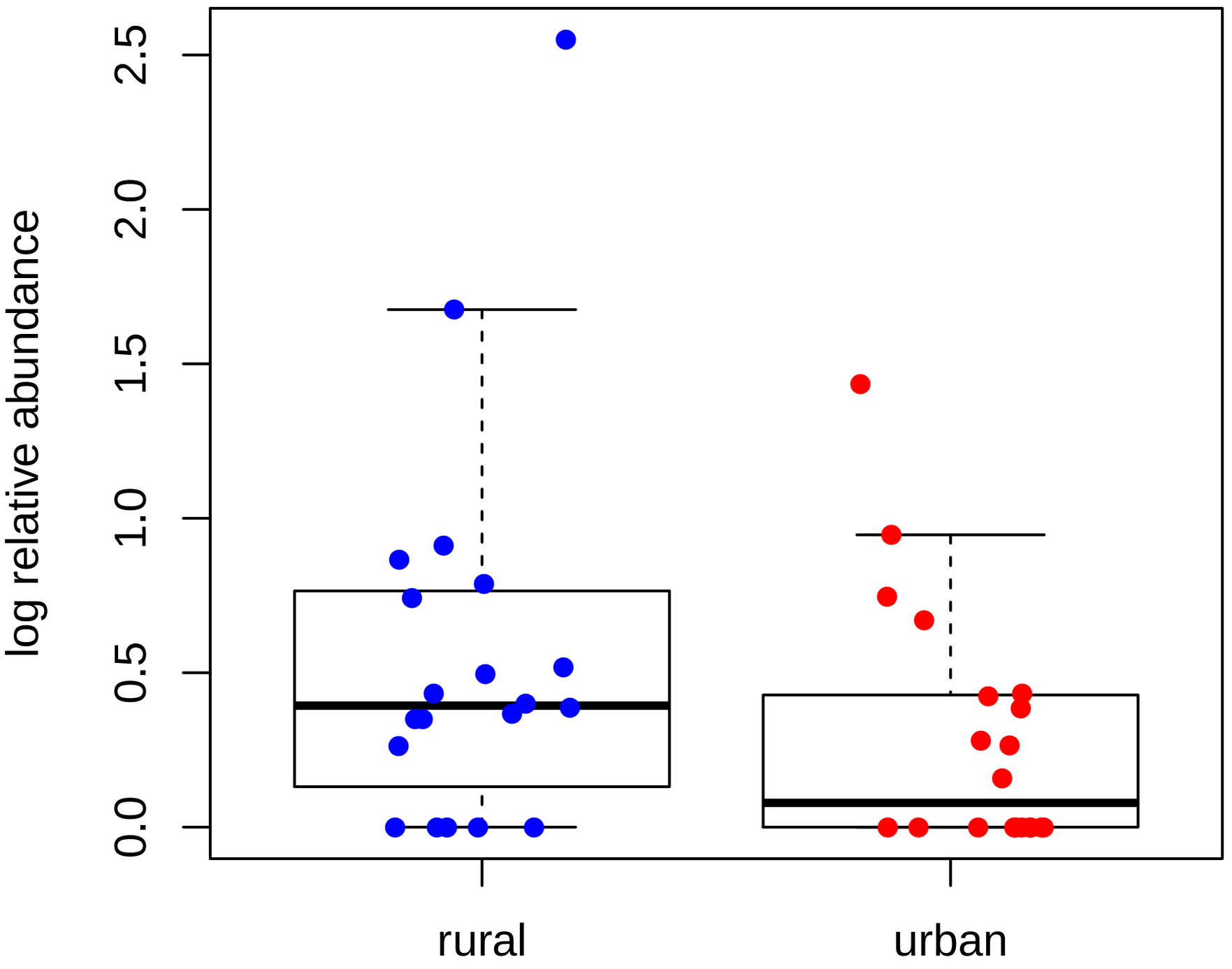

WGS species: Burkholderia_phytofirmans
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

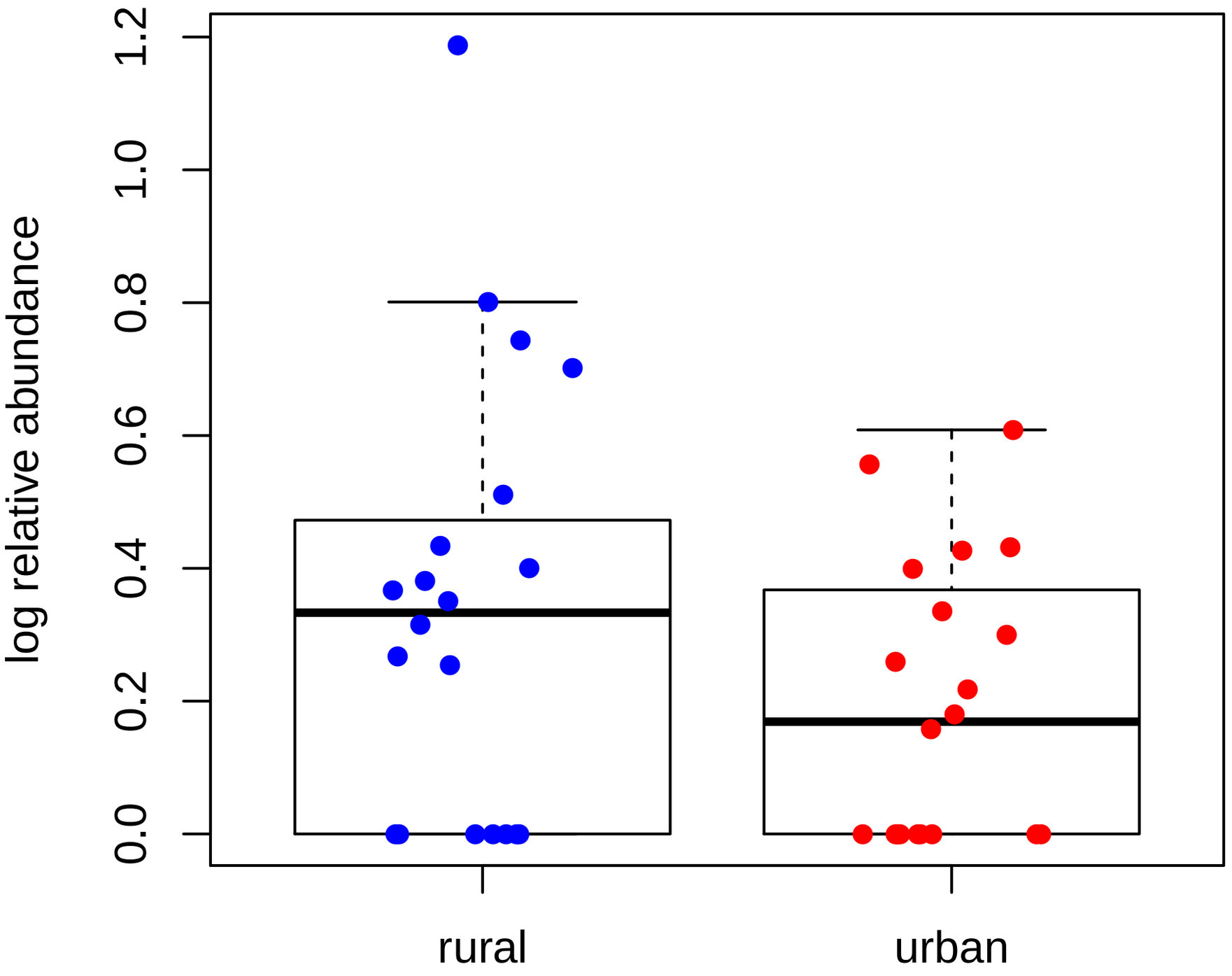

WGS species: X.Bacillus._selenitireducens
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

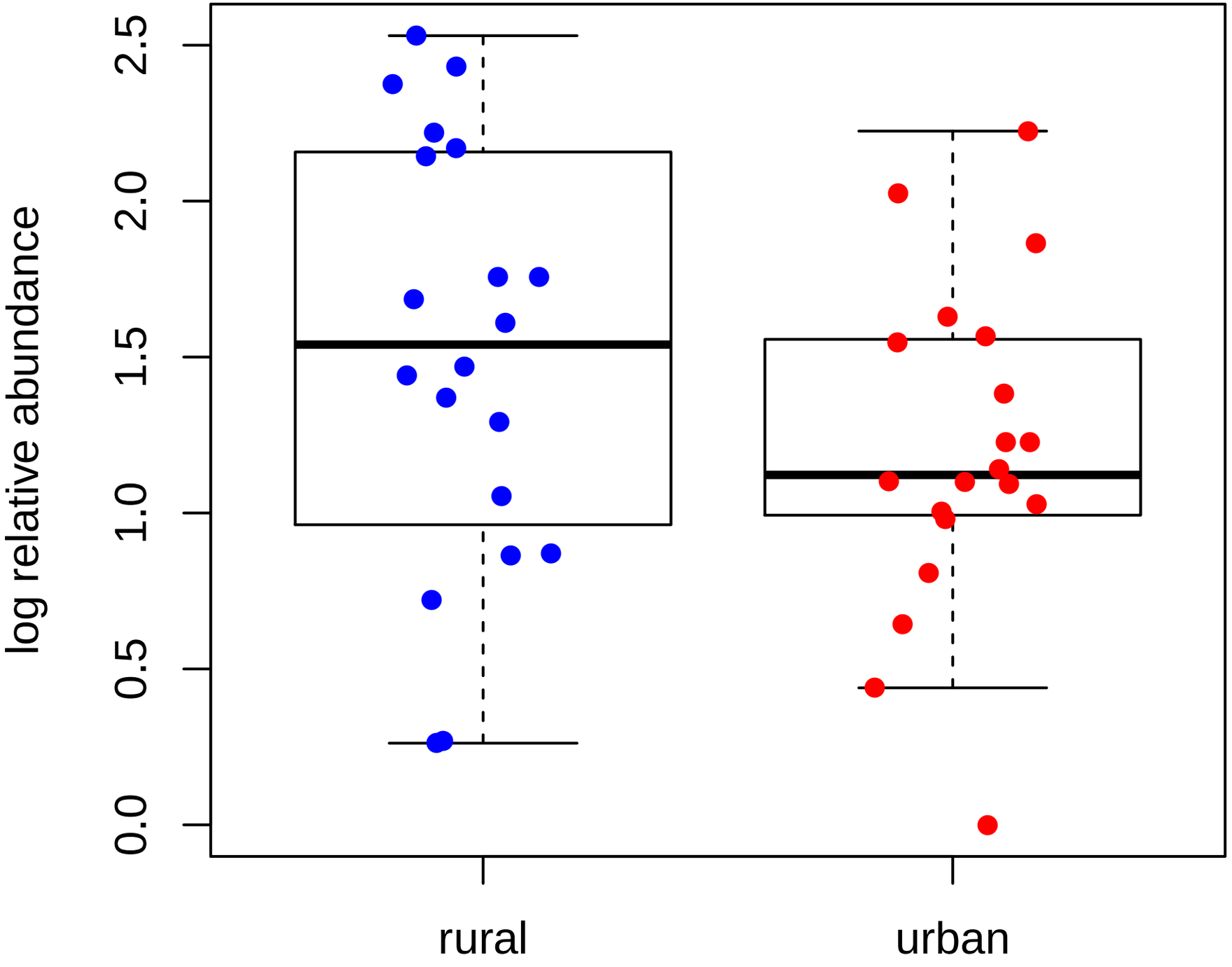

WGS species: Denitrovibrio_acetiphilus
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

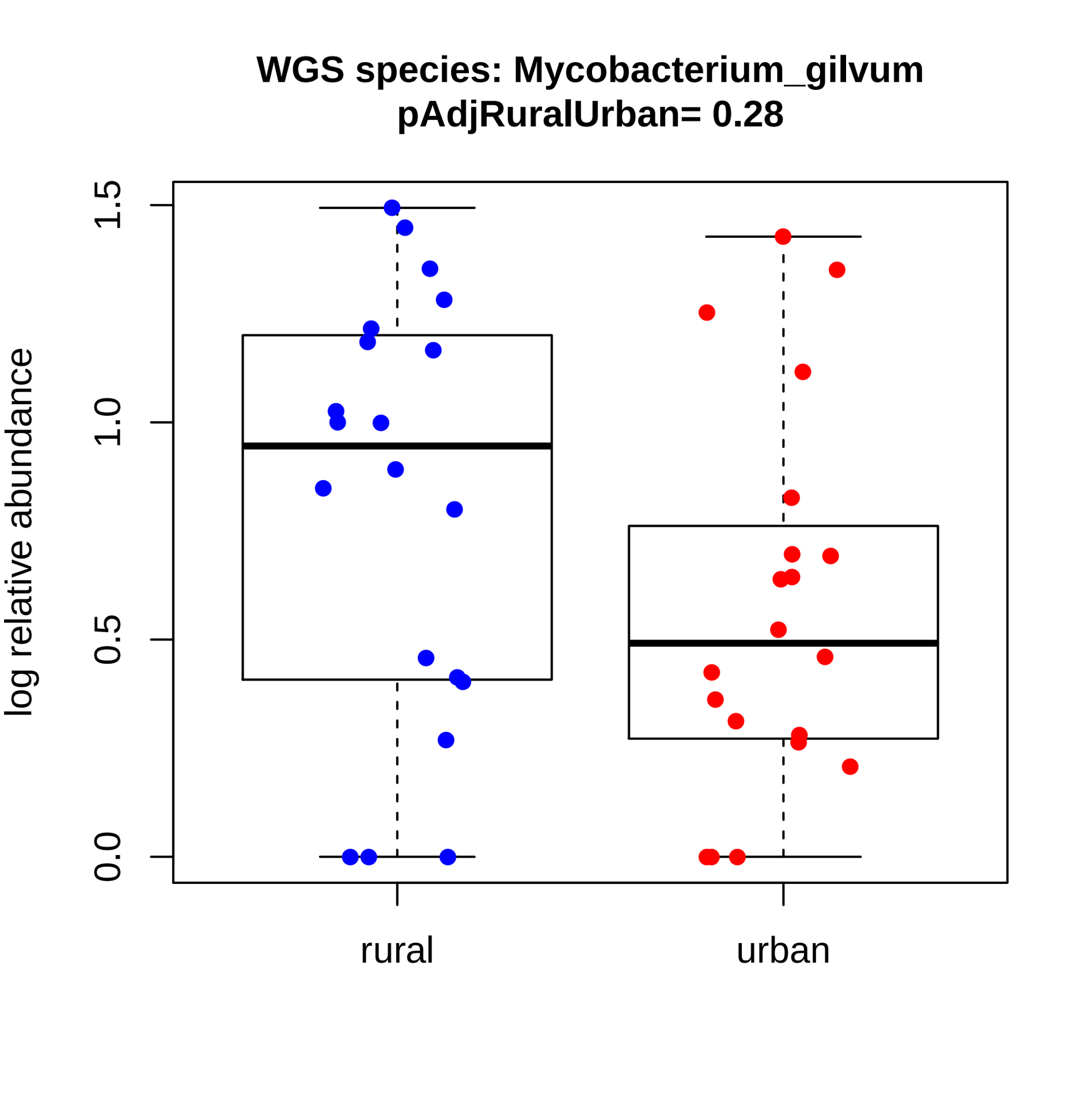

WGS species: alpha_proteobacterium_HIMB59
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

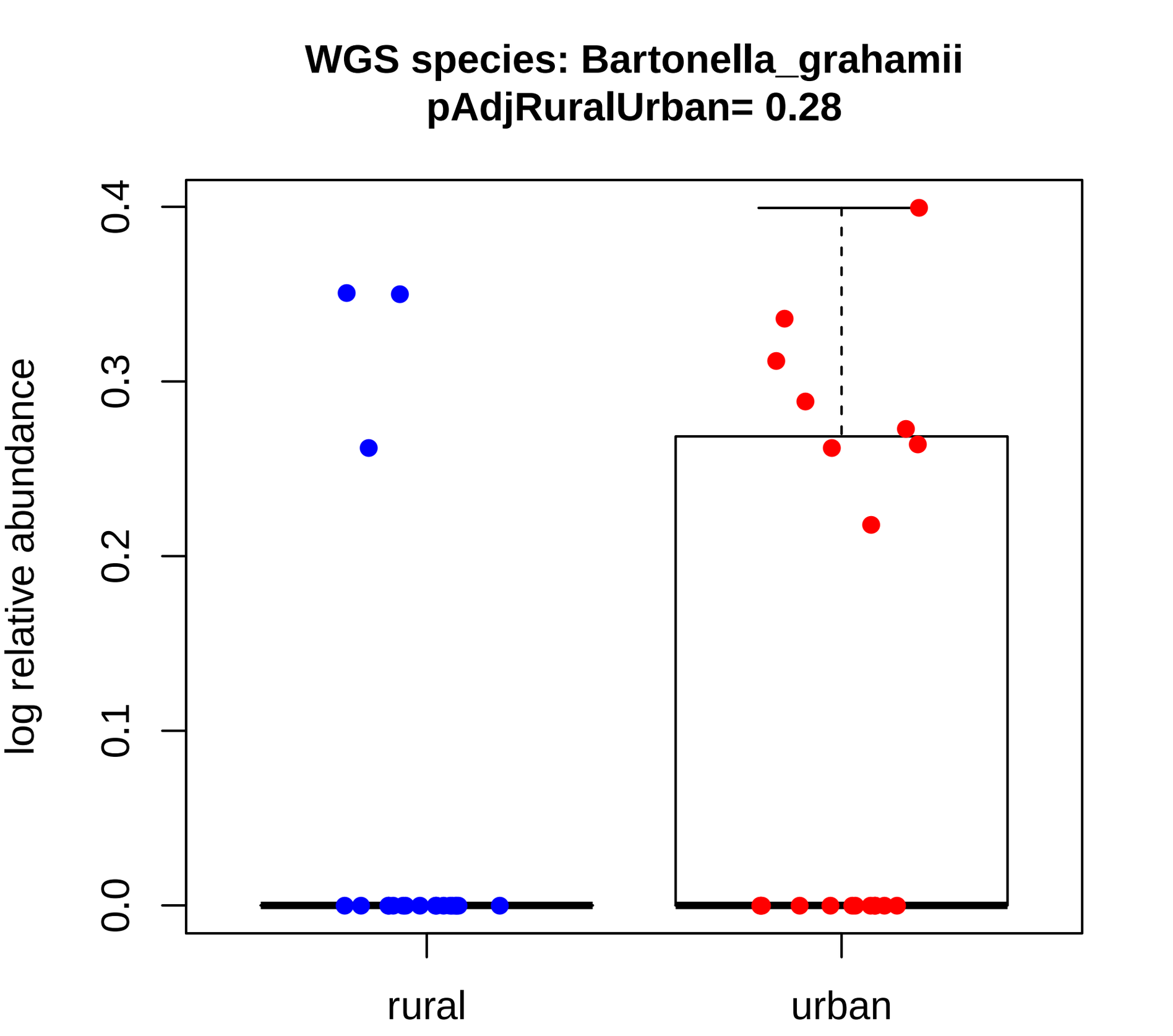

WGS species: Belliella_baltica
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

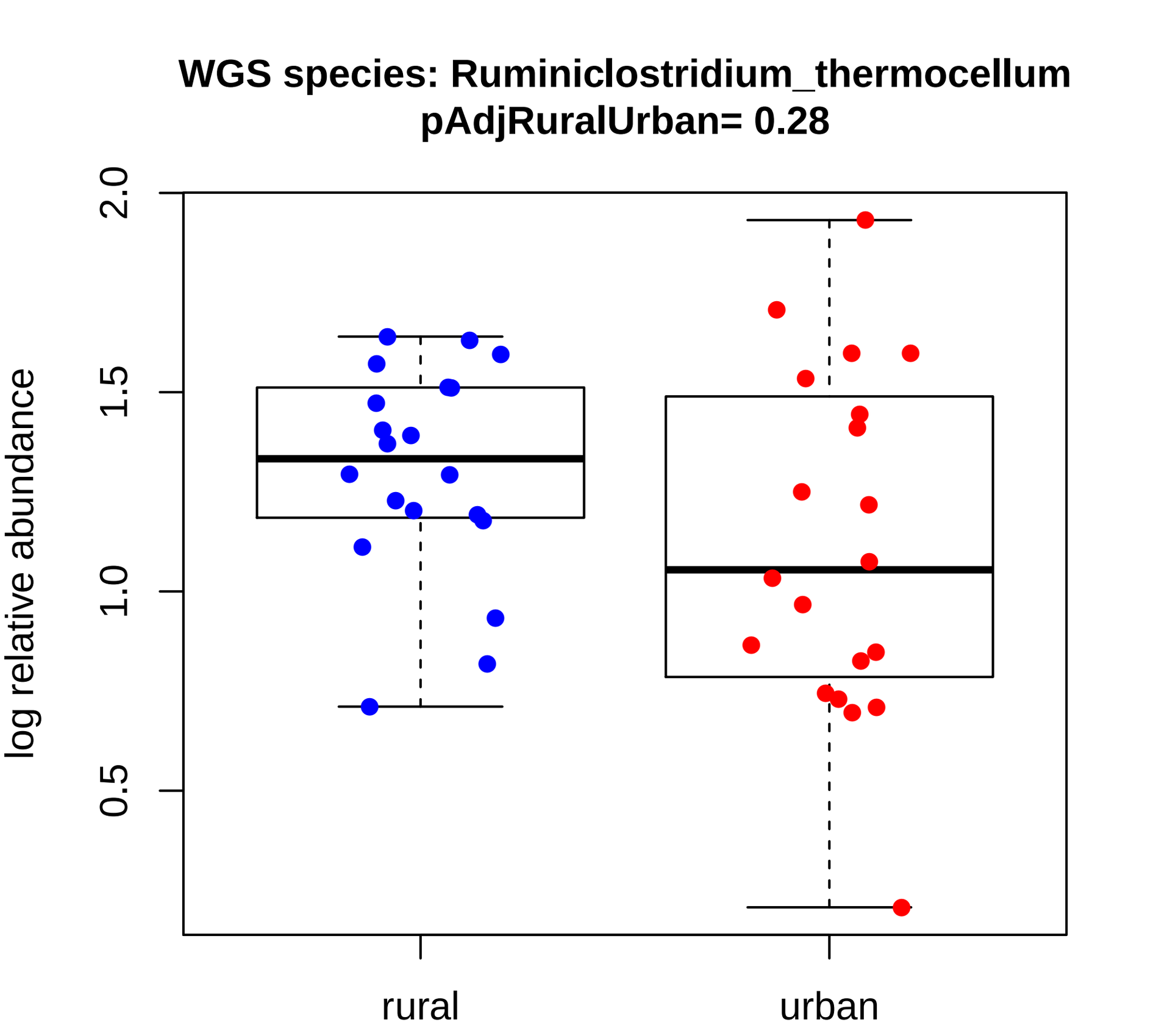

WGS species: Lactobacillus_johnsonii
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

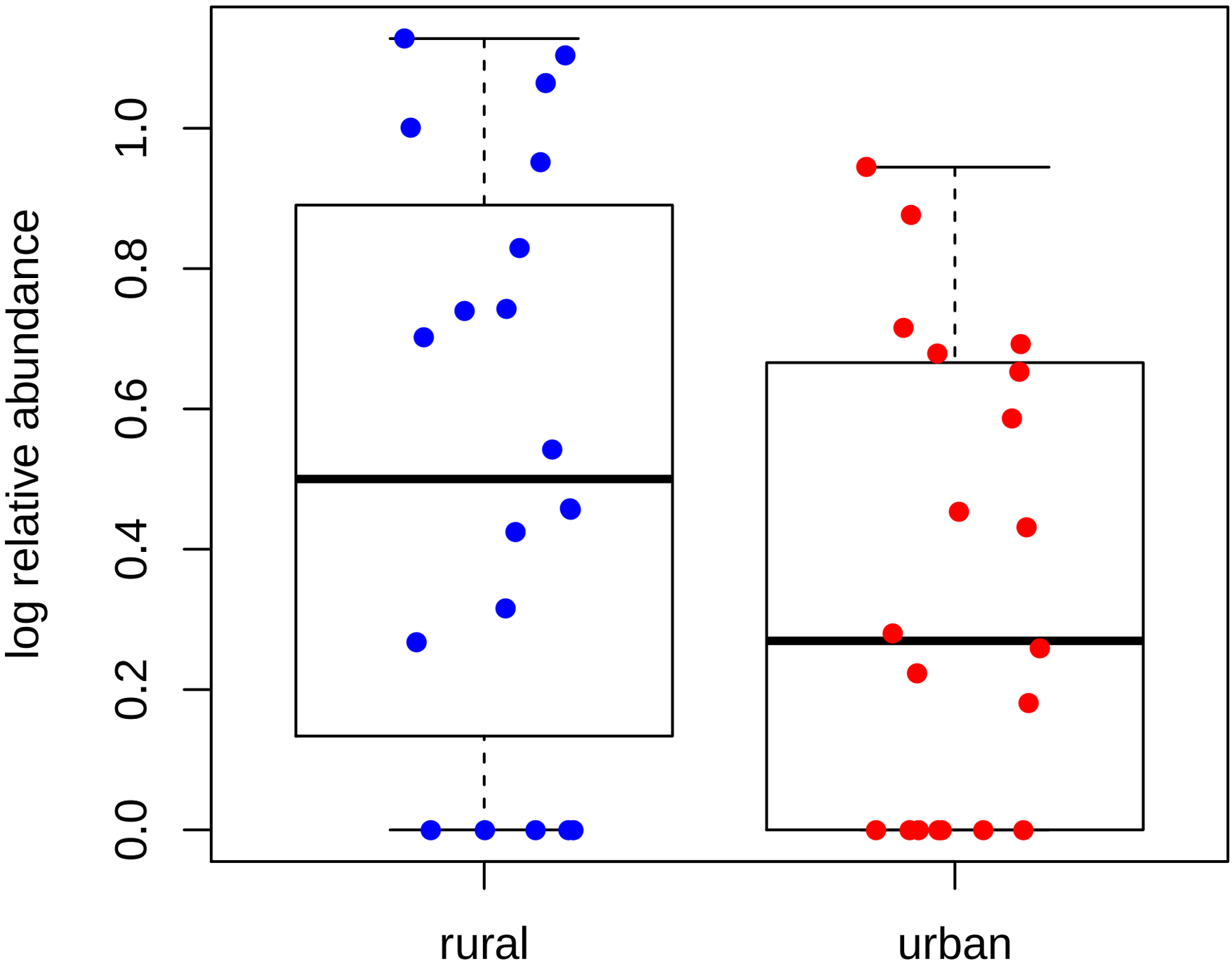

WGS species: Rhodococcus_pyridinivorans
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

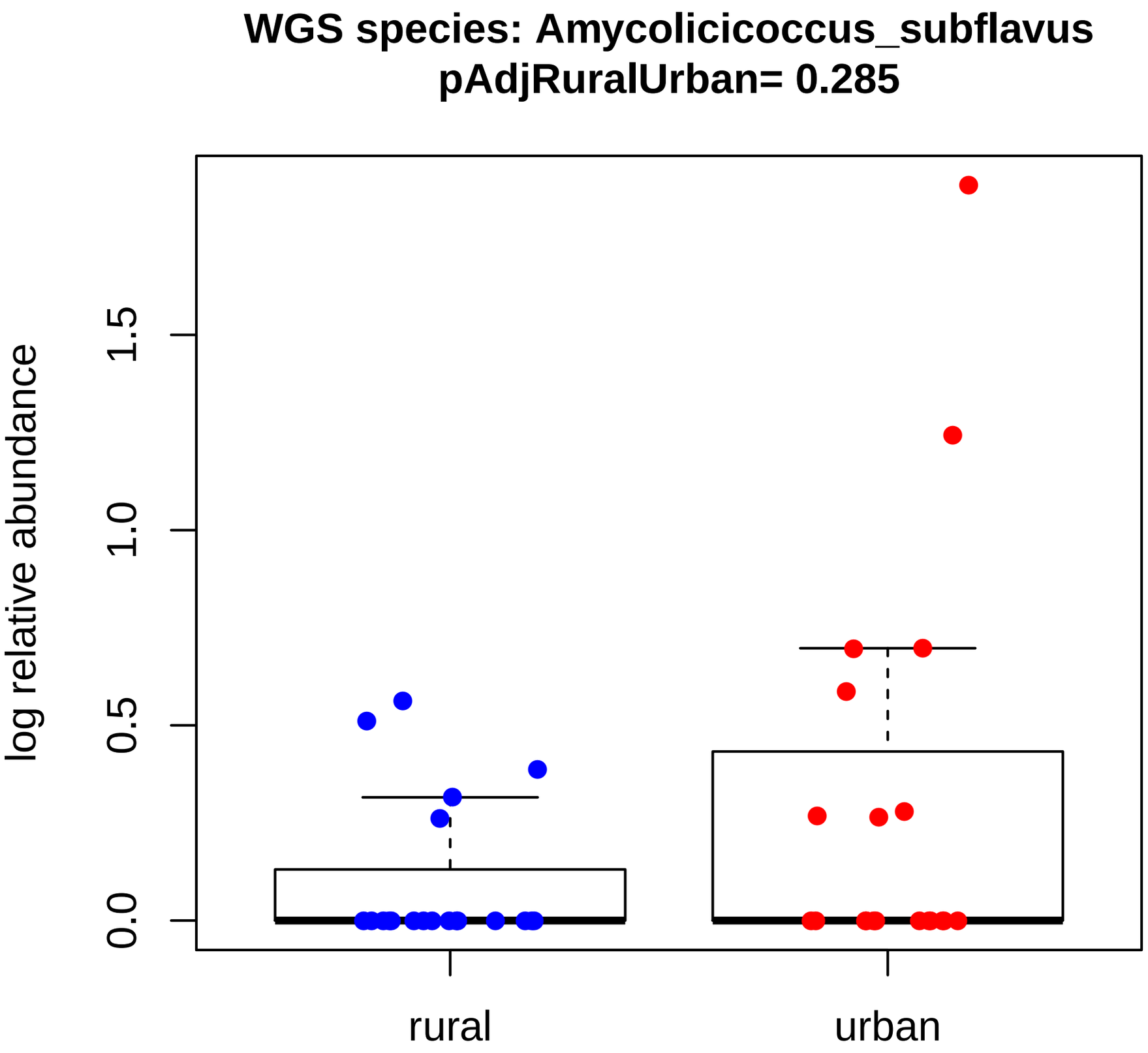

WGS species: Niastella_koreensis
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

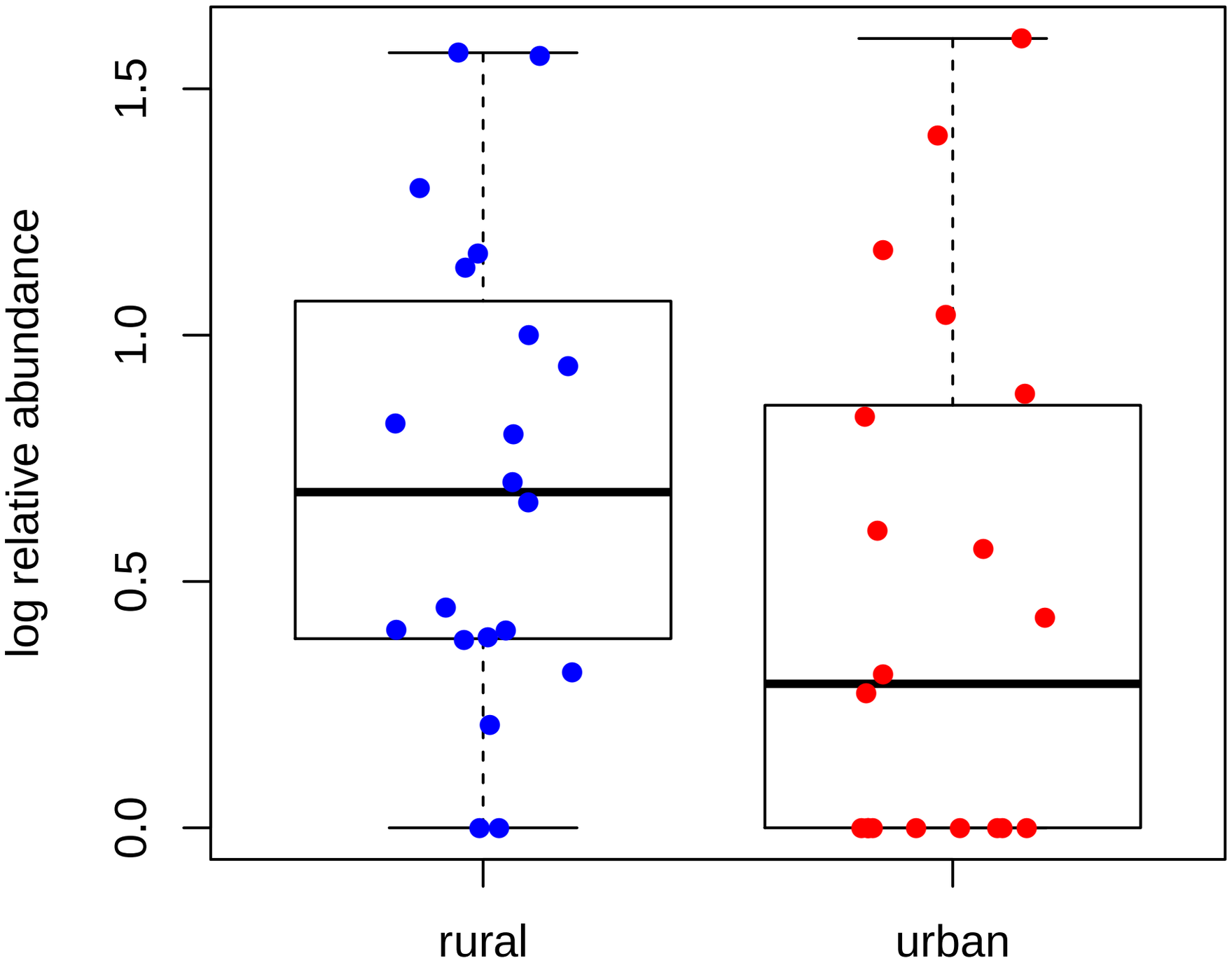

WGS species: Mycobacterium_gilvum
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

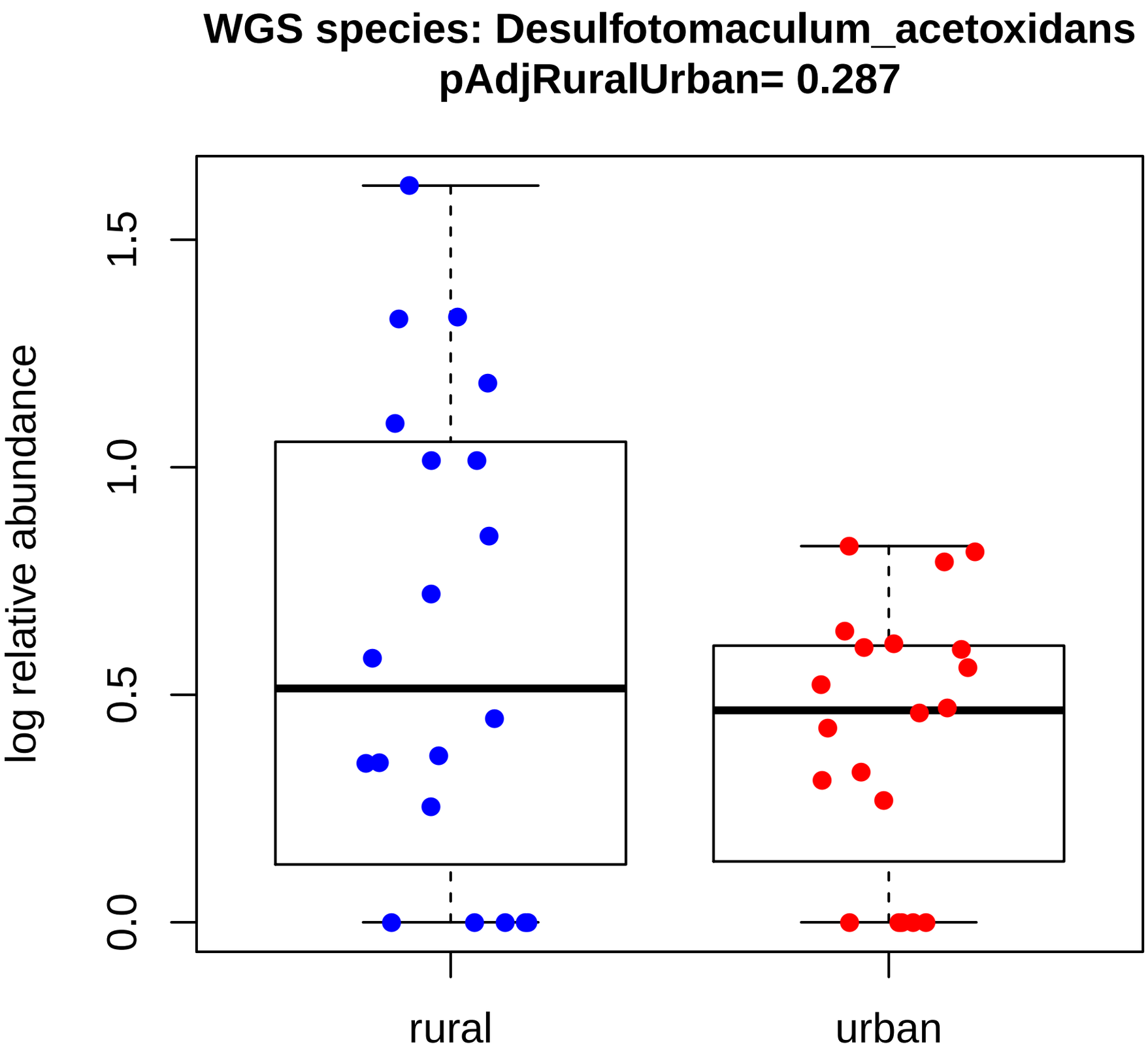

WGS species: Bartonella_grahamii
pAdjRuralUrban= 0.28
log relative abundance
0.0
0.1
0.2
0.3
0.4
rural
urban

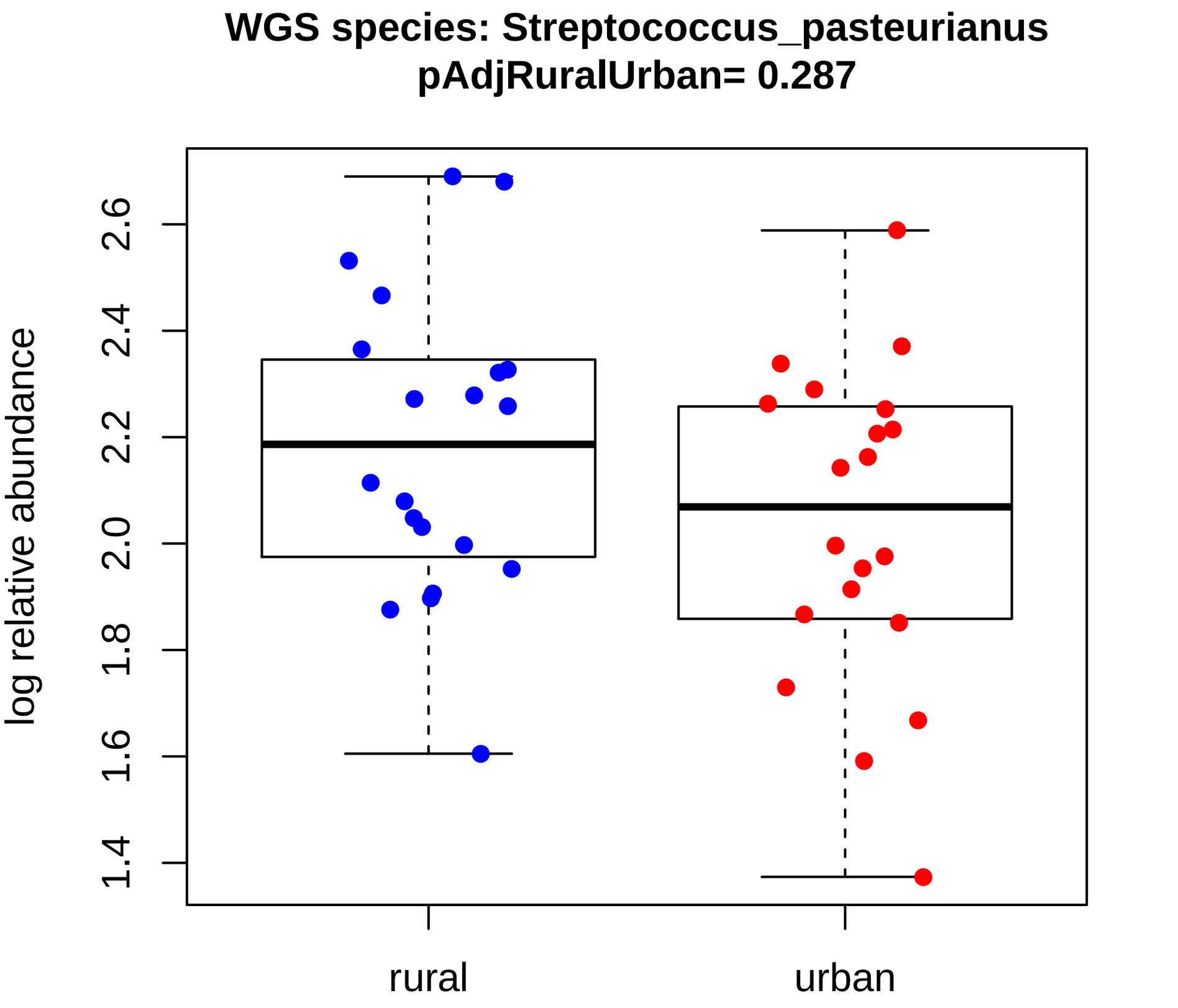

WGS species: Ruminiclostridium_thermocellum
pAdjRuralUrban= 0.28
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

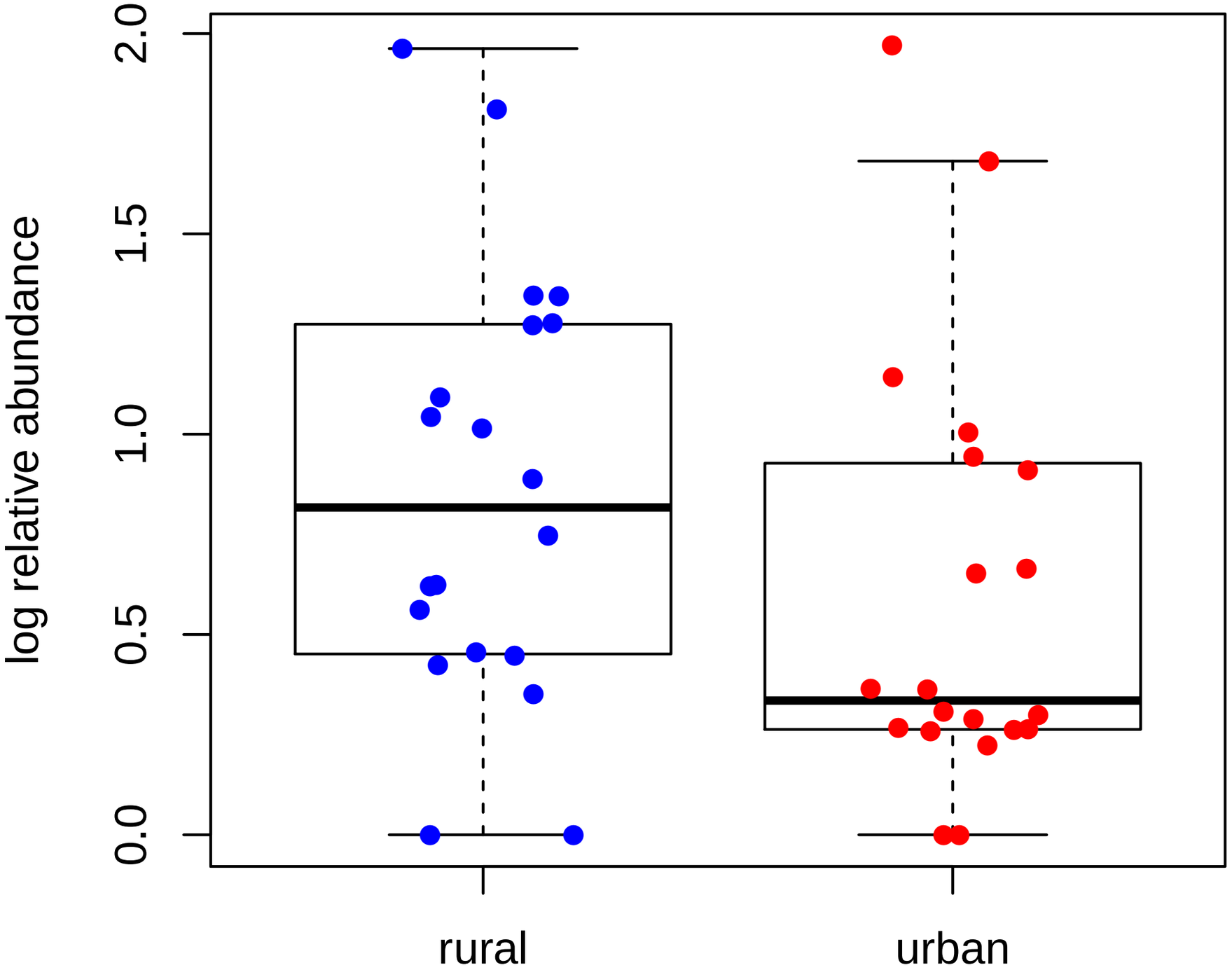

WGS species: Halobacteroides_halobius
pAdjRuralUrban= 0.285
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

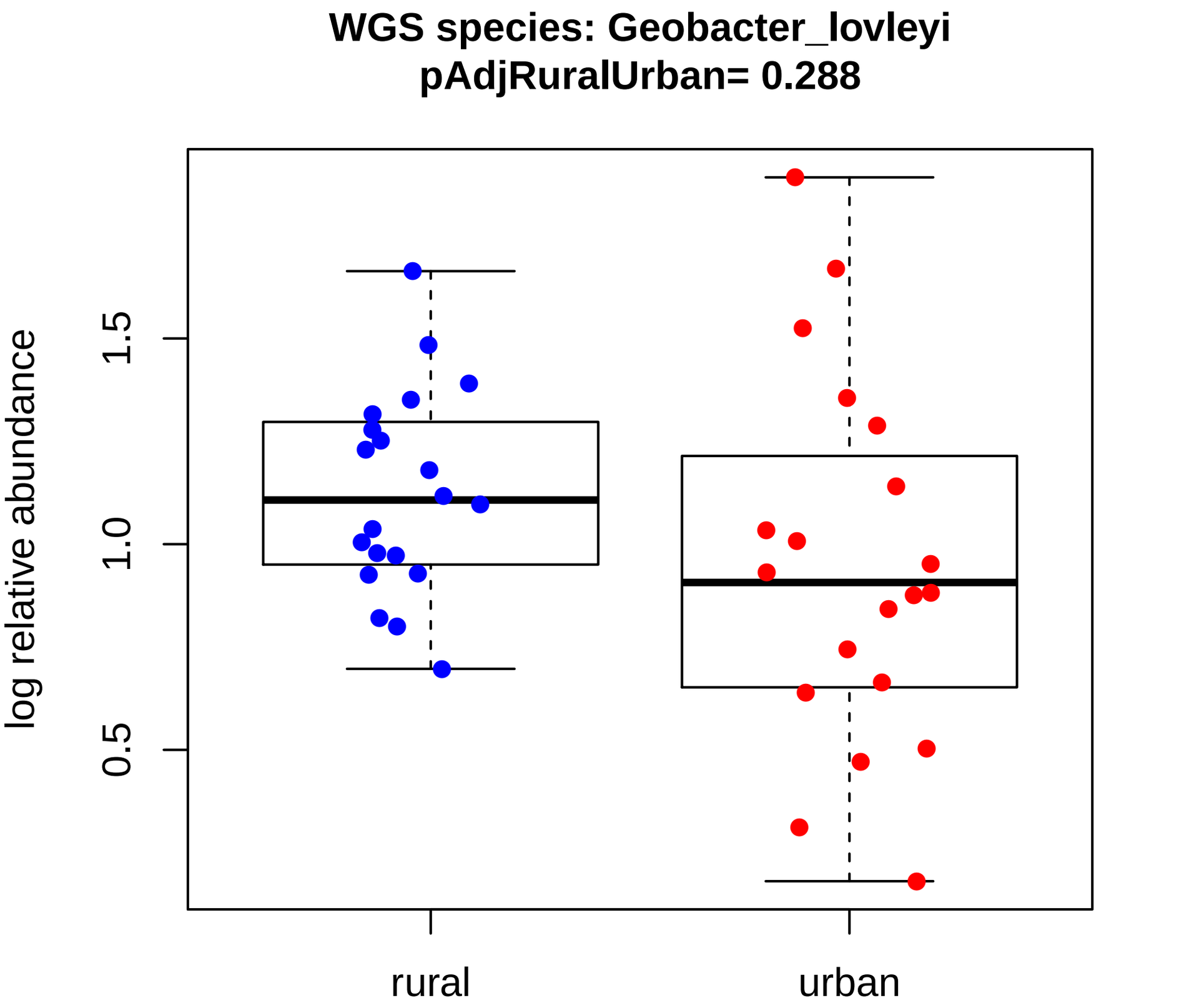

WGS species: Amycolicicoccus_subflavus
pAdjRuralUrban= 0.285
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

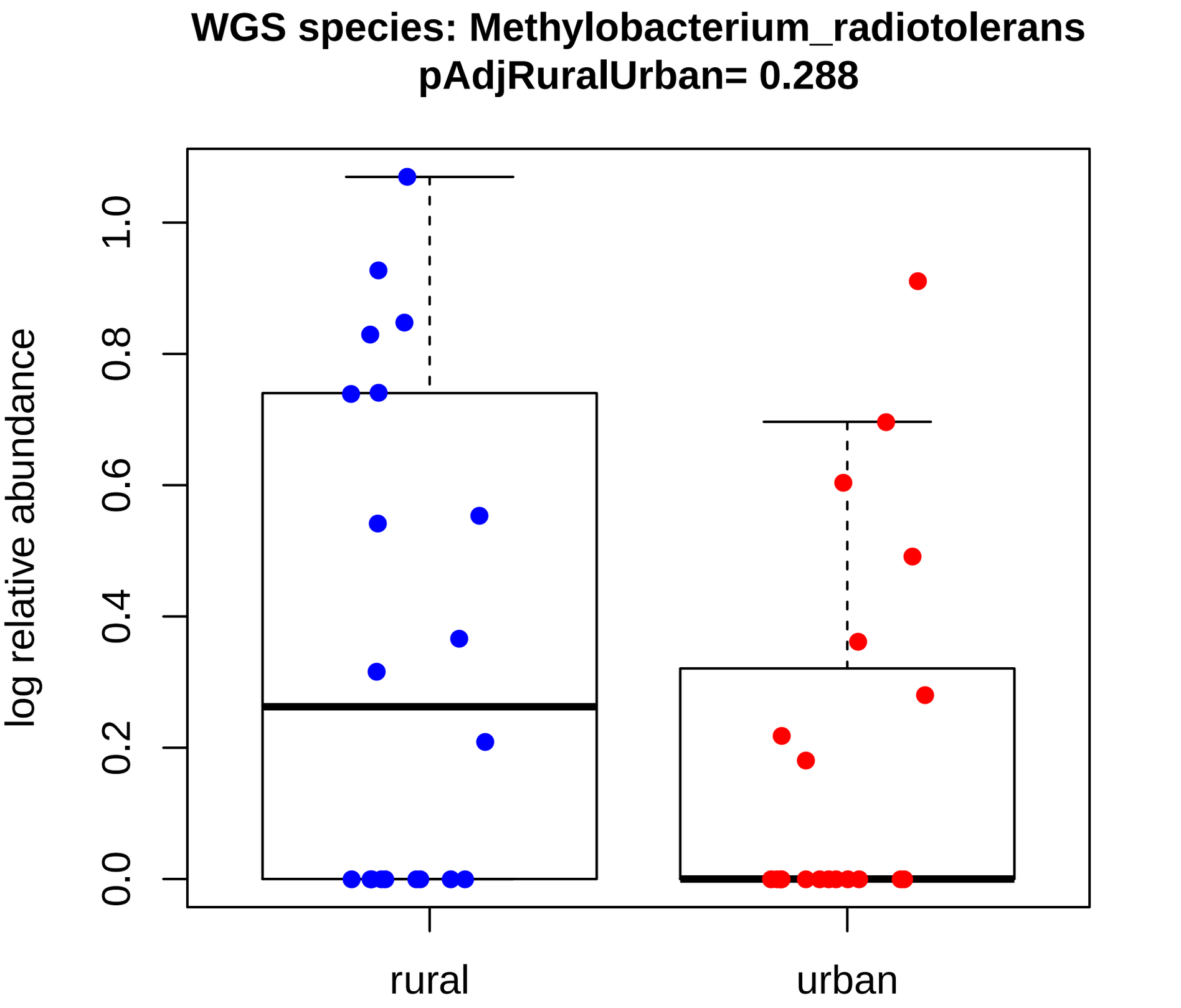

WGS species: Bacillus_atrophaeus
pAdjRuralUrban= 0.287
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

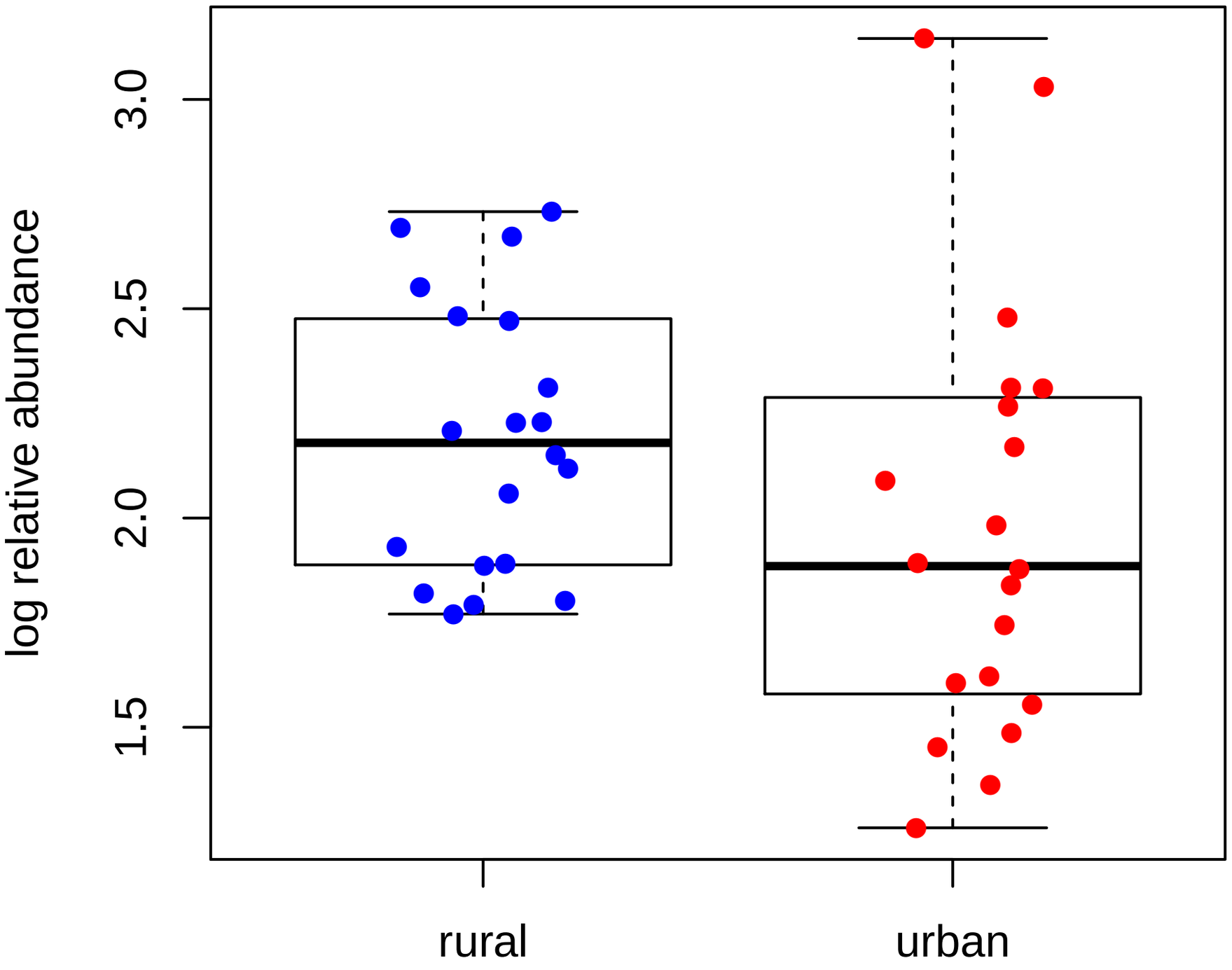

WGS species: Desulfotomaculum_acetoxidans
pAdjRuralUrban= 0.287
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

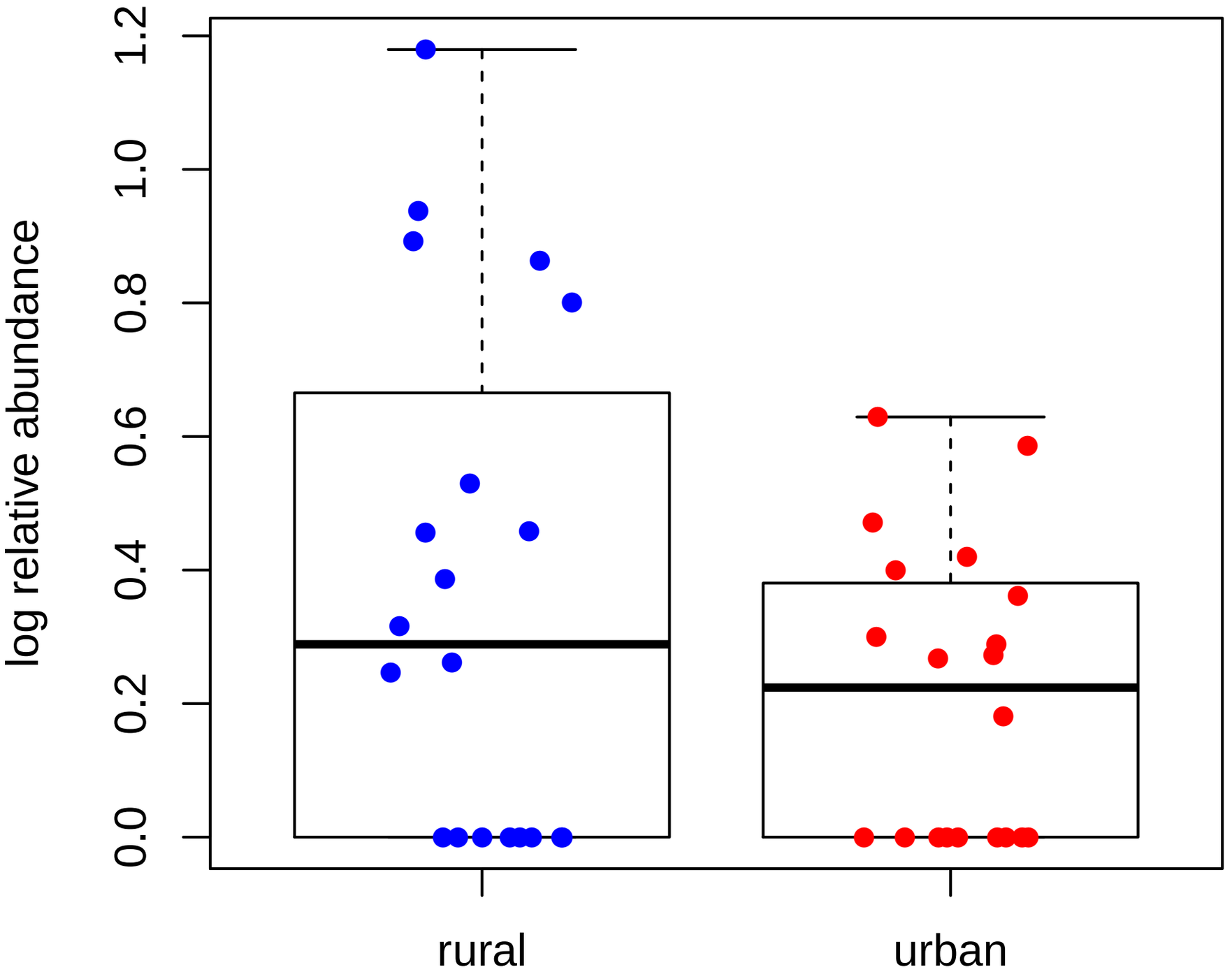

WGS species: Streptococcus_pasteurianus
pAdjRuralUrban= 0.287
log relative abundance
1.4
1.6
1.8
2.0
2.2
2.4
2.6
rural
urban

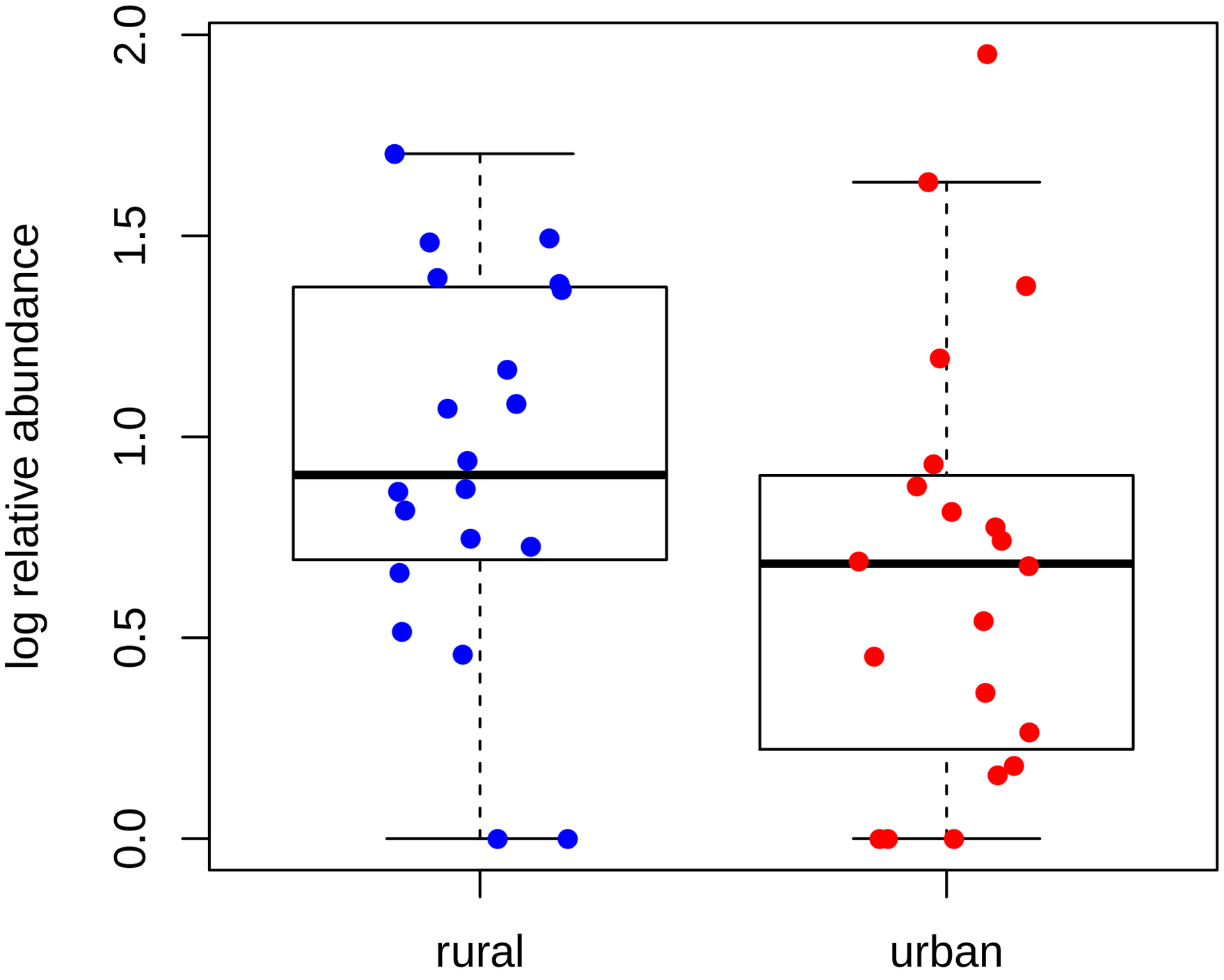

WGS species: Serratia_proteamaculans
pAdjRuralUrban= 0.287
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

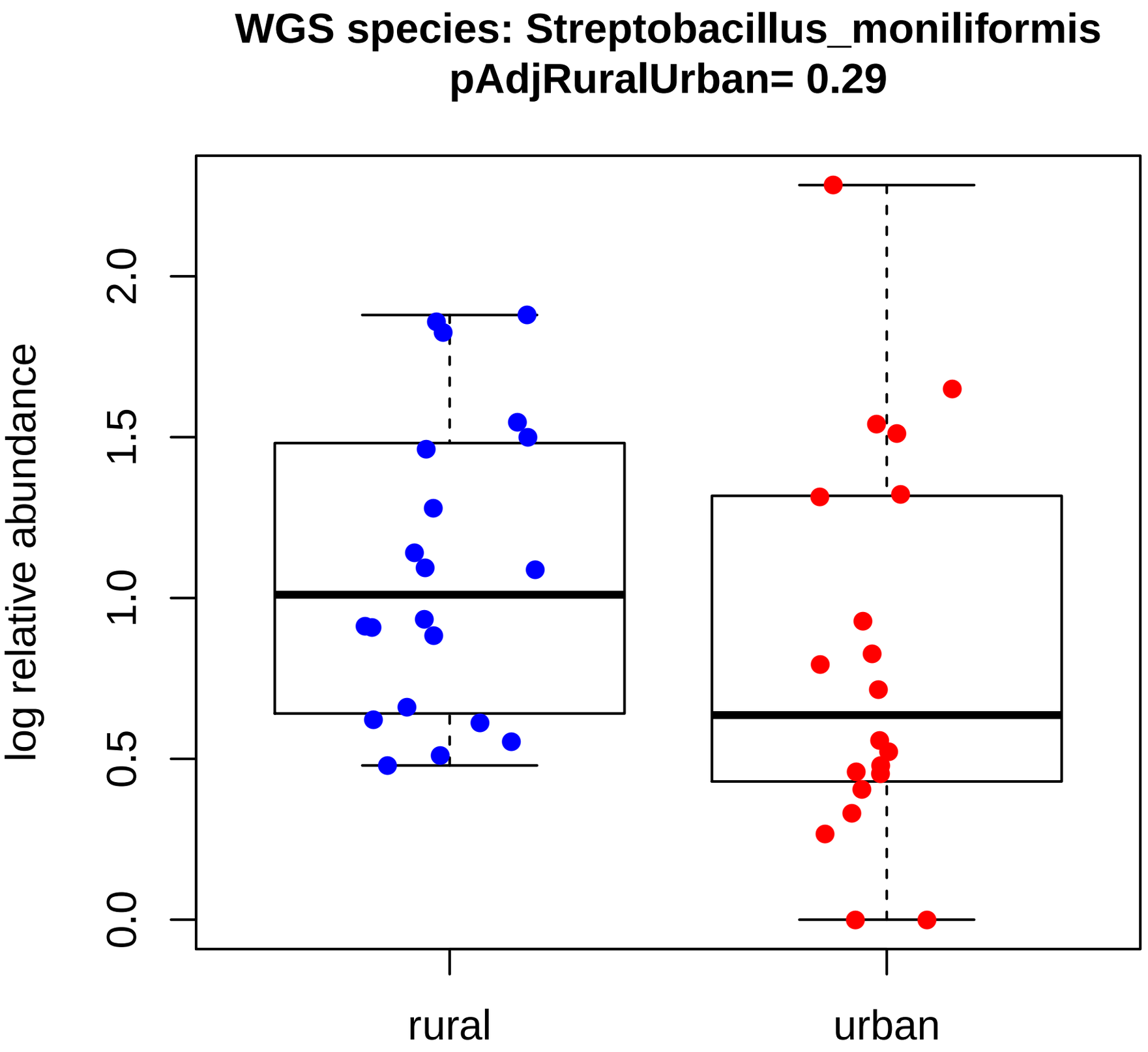

WGS species: Geobacter_lovleyi
pAdjRuralUrban= 0.288
log relative abundance
0.5
1.0
1.5
rural
urban

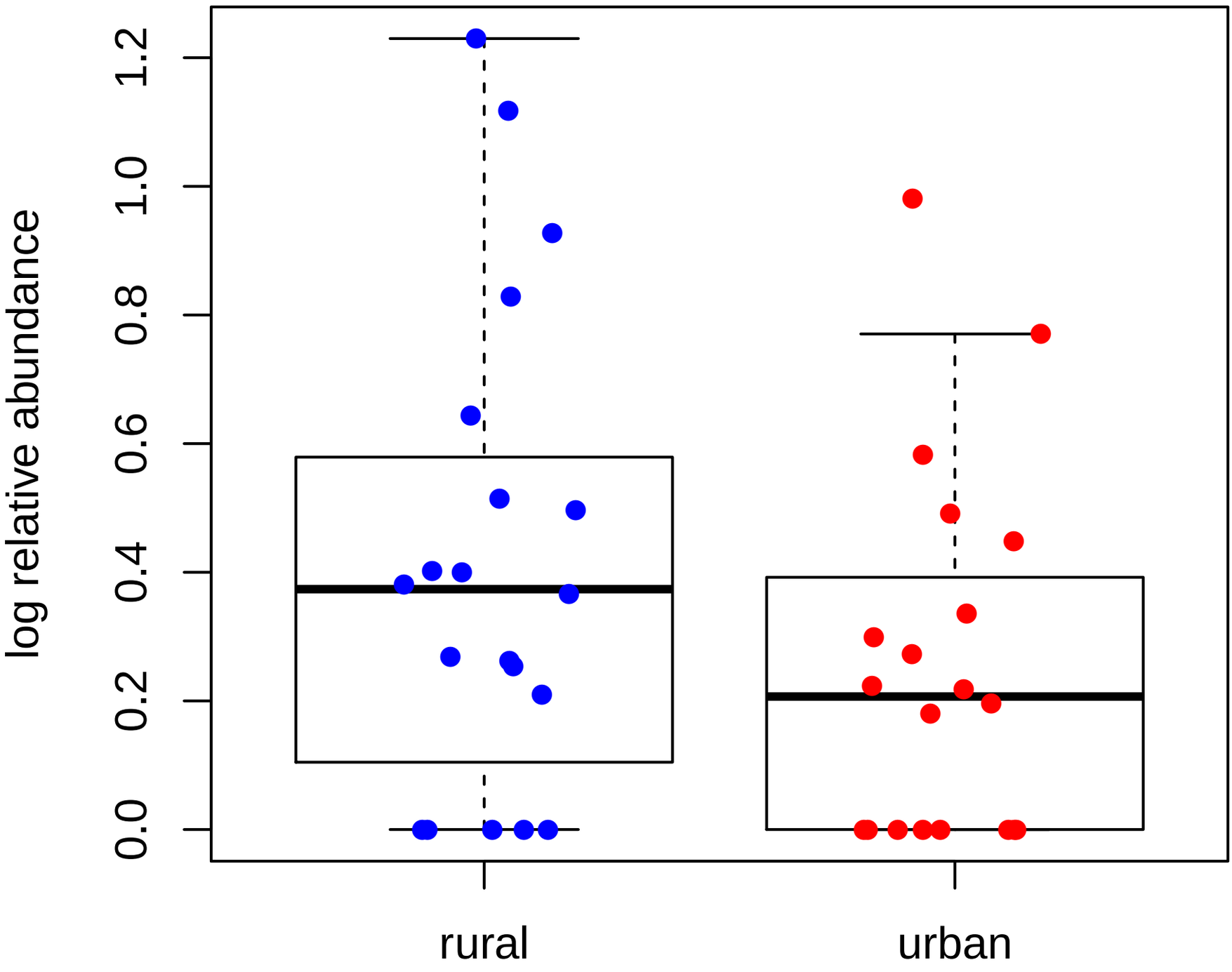

WGS species: Methylobacterium_radiotolerans
pAdjRuralUrban= 0.288
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

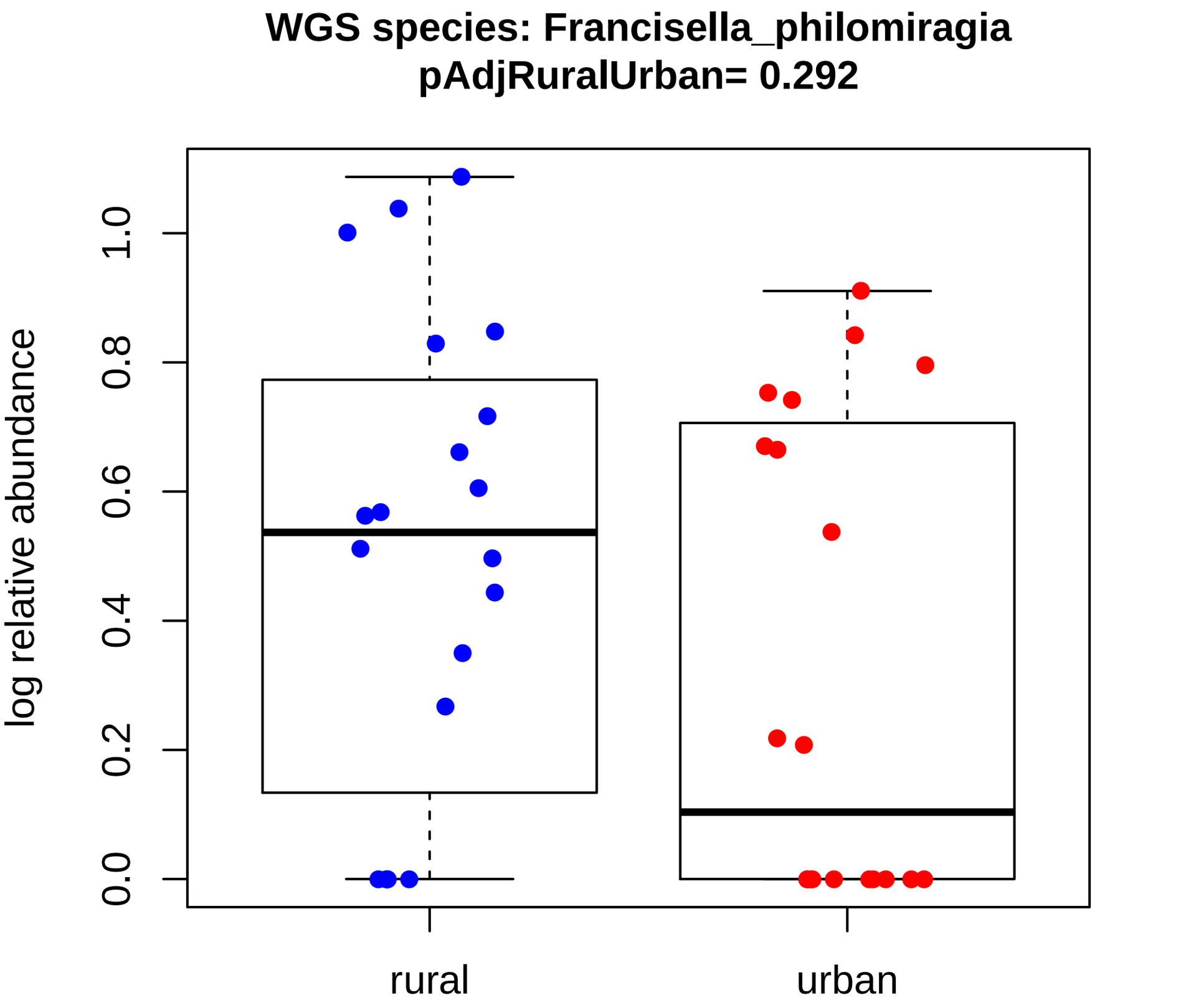

WGS species: Streptococcus_suis
pAdjRuralUrban= 0.288
log relative abundance
3.0
2.5
2.0
1.5
rural
urban

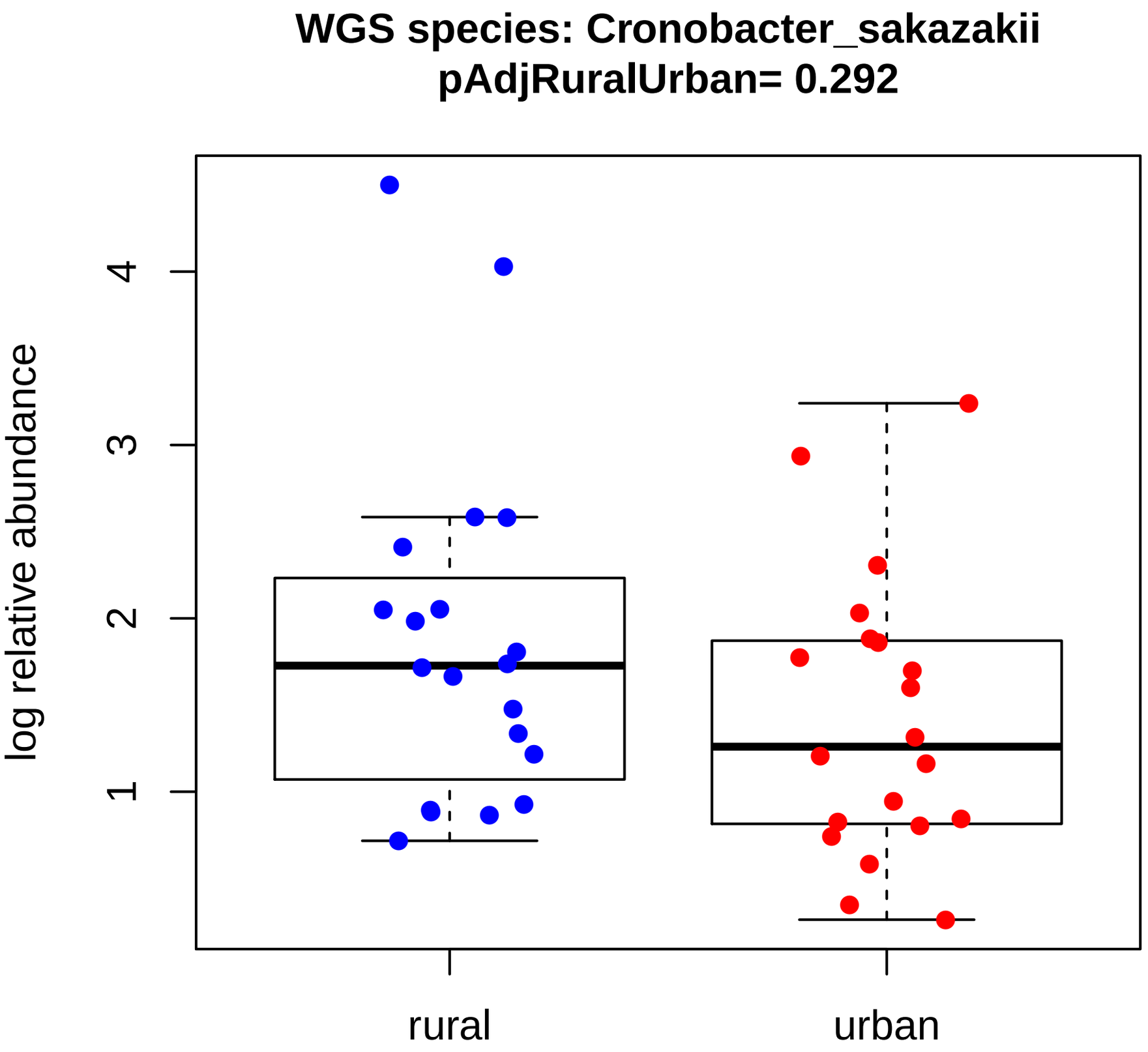

WGS species: Candidatus_Arthromitus_sp._SFB.mouse
pAdjRuralUrban= 0.289
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

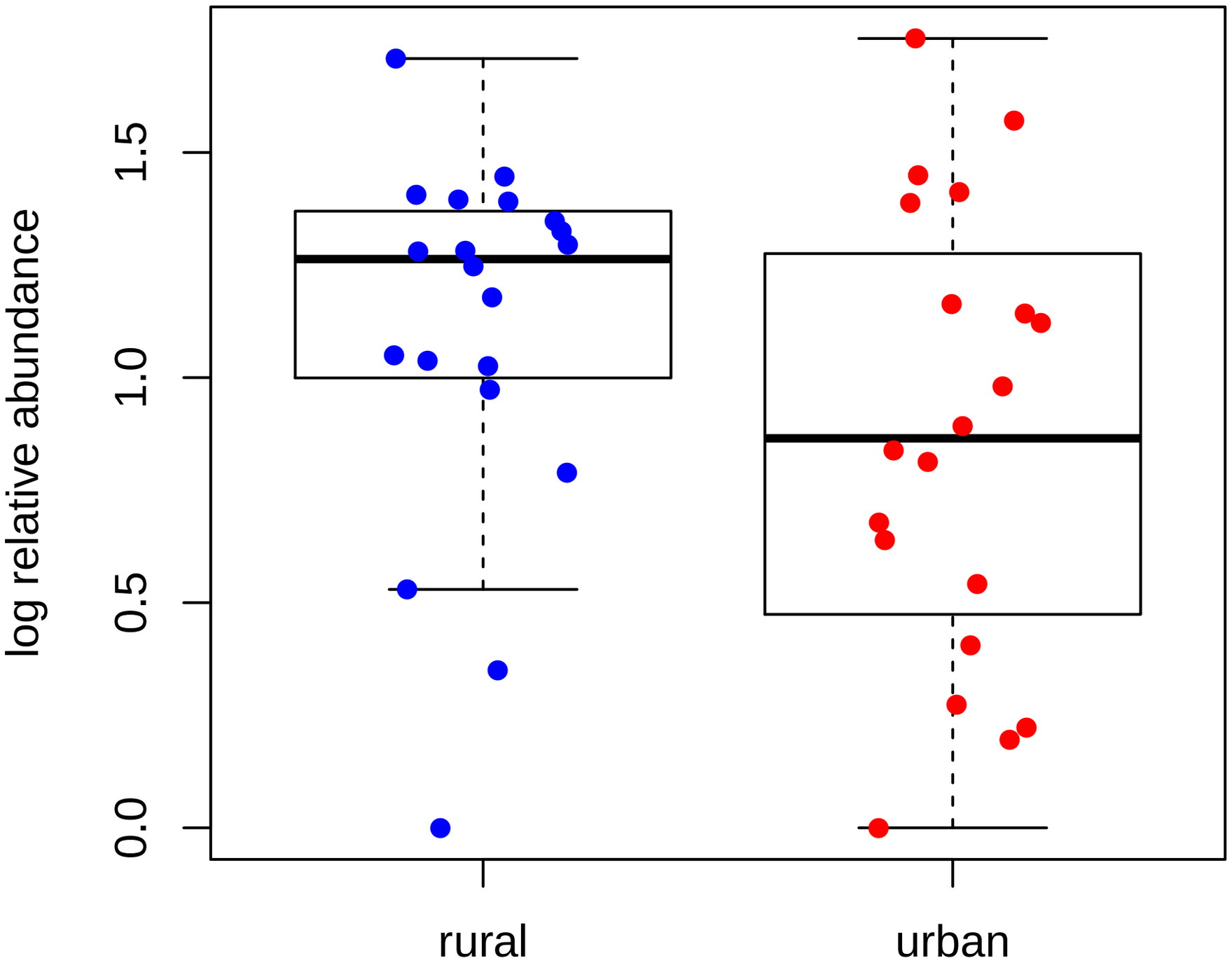

WGS species: Pseudovibrio_sp._FO.BEG1
pAdjRuralUrban= 0.289
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

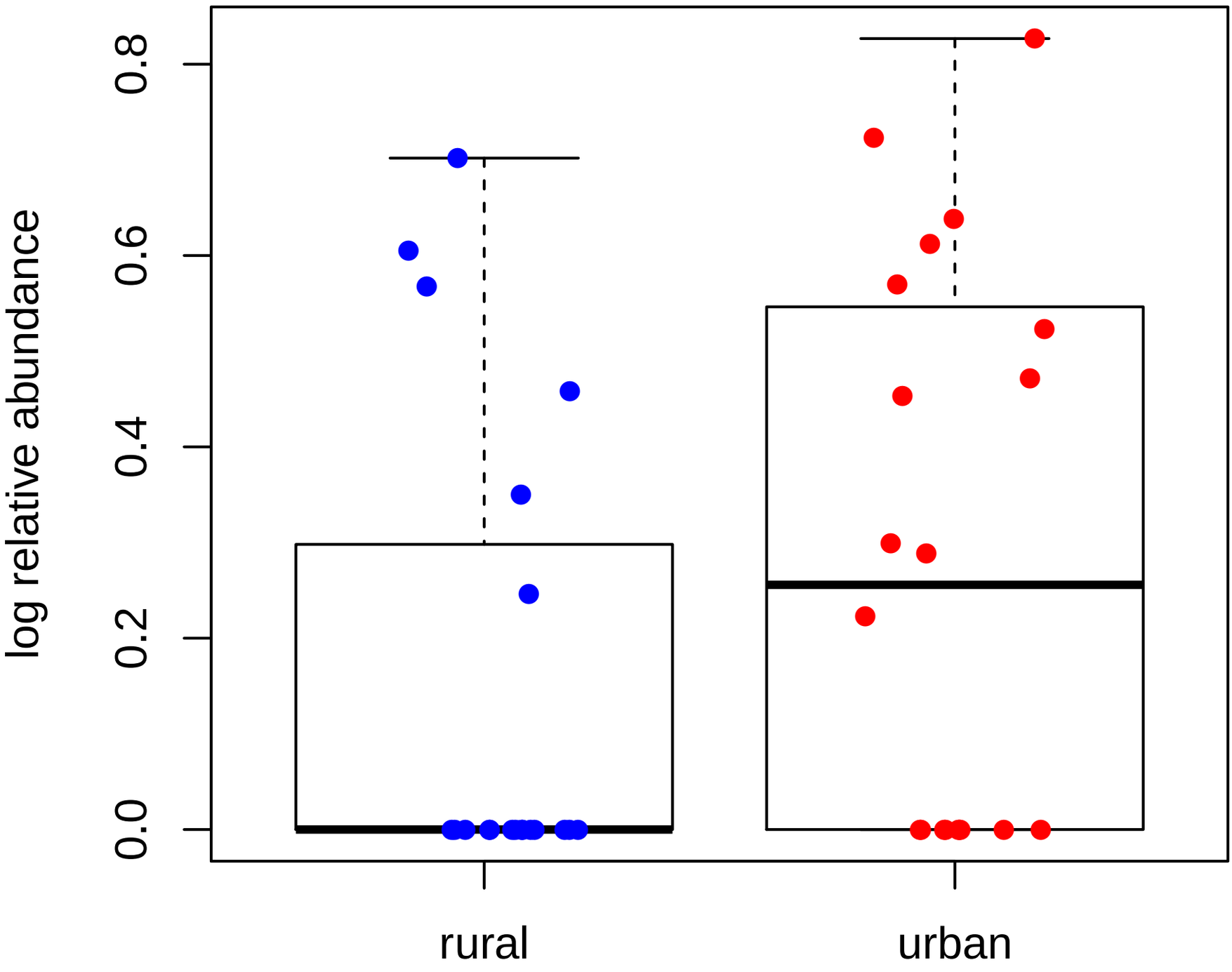

WGS species: Streptobacillus_moniliformis
pAdjRuralUrban= 0.29
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

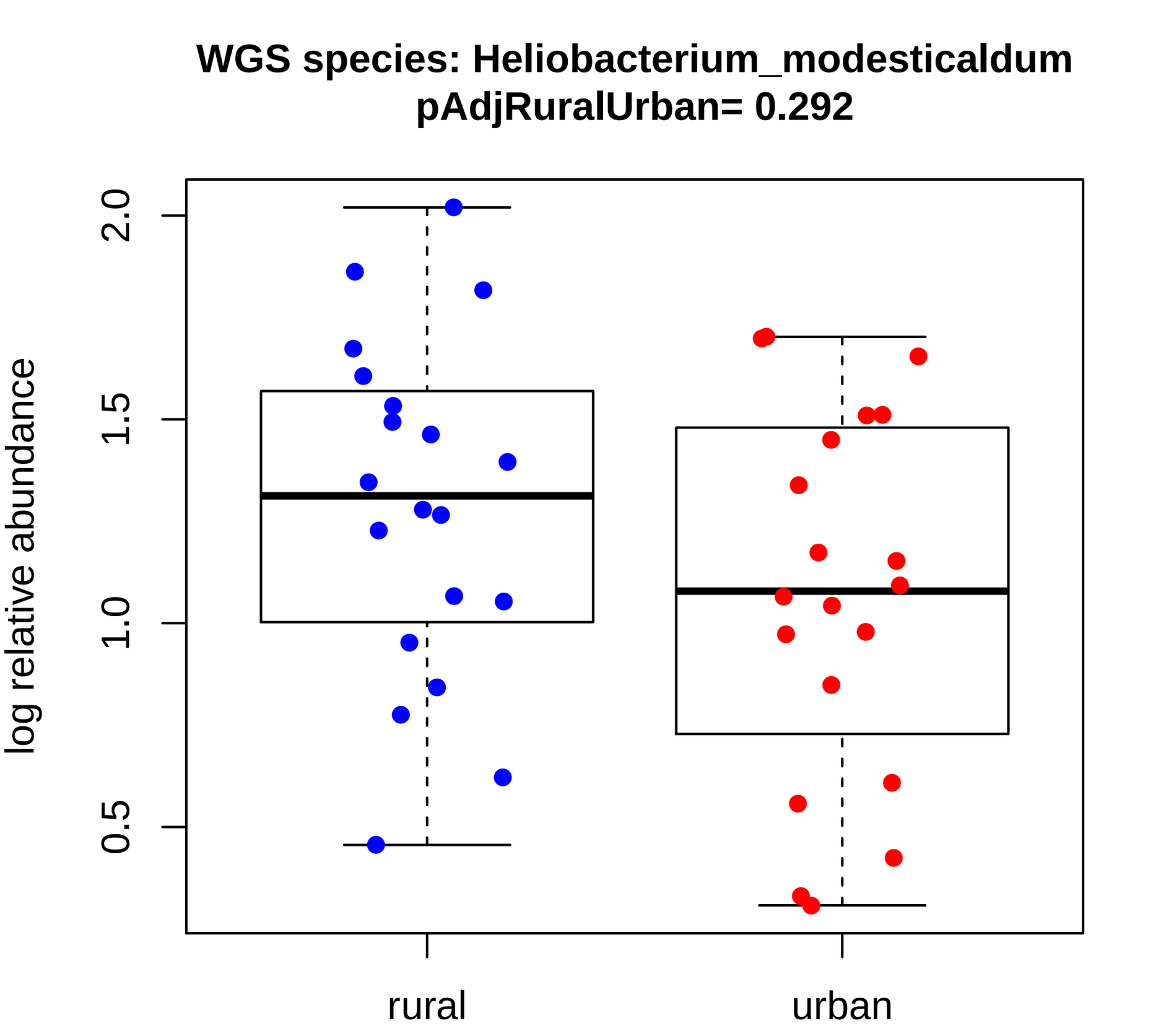

WGS species: Lactobacillus_sakei
pAdjRuralUrban= 0.292
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

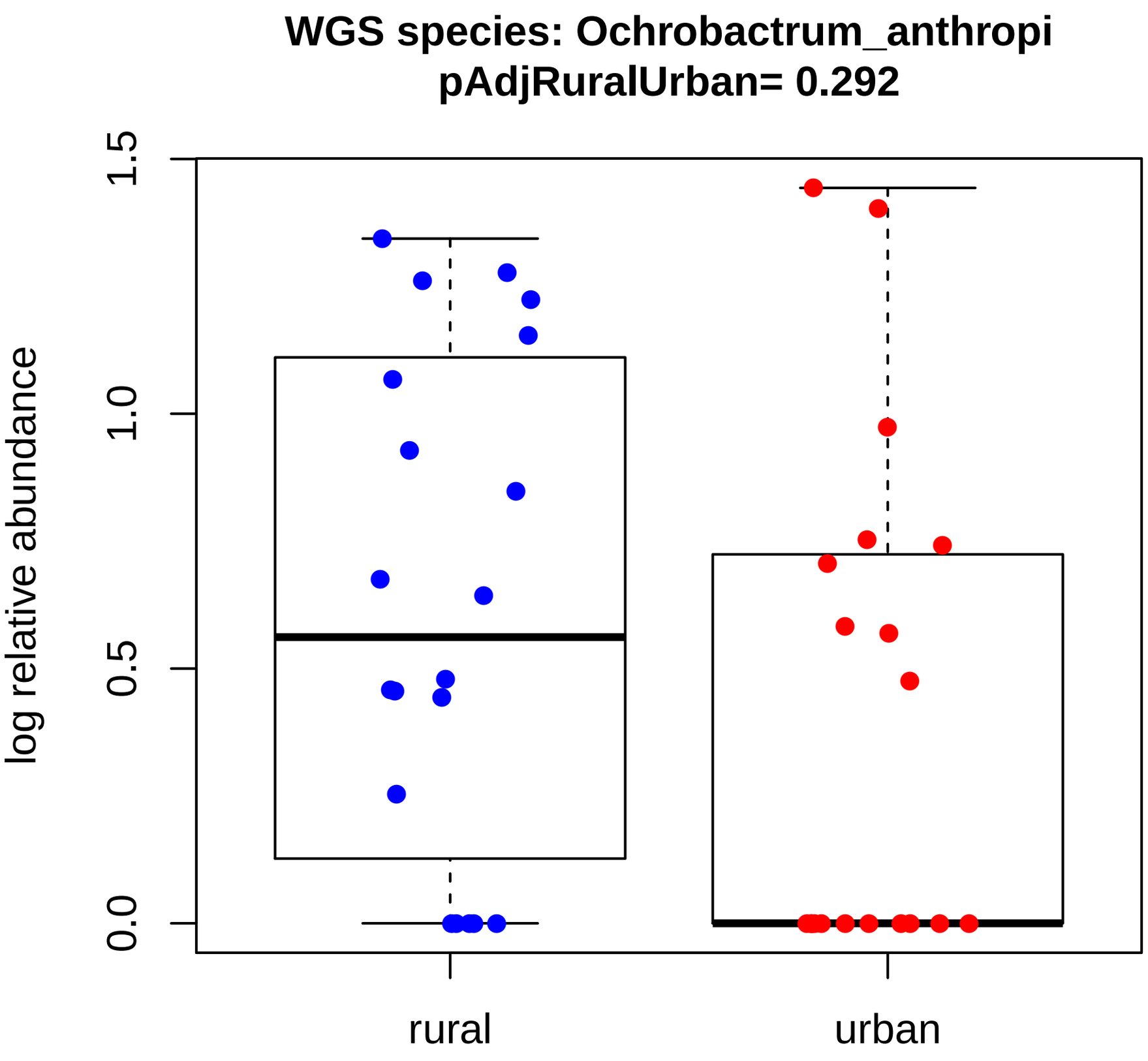

WGS species: Francisella_philomiragia
pAdjRuralUrban= 0.292
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

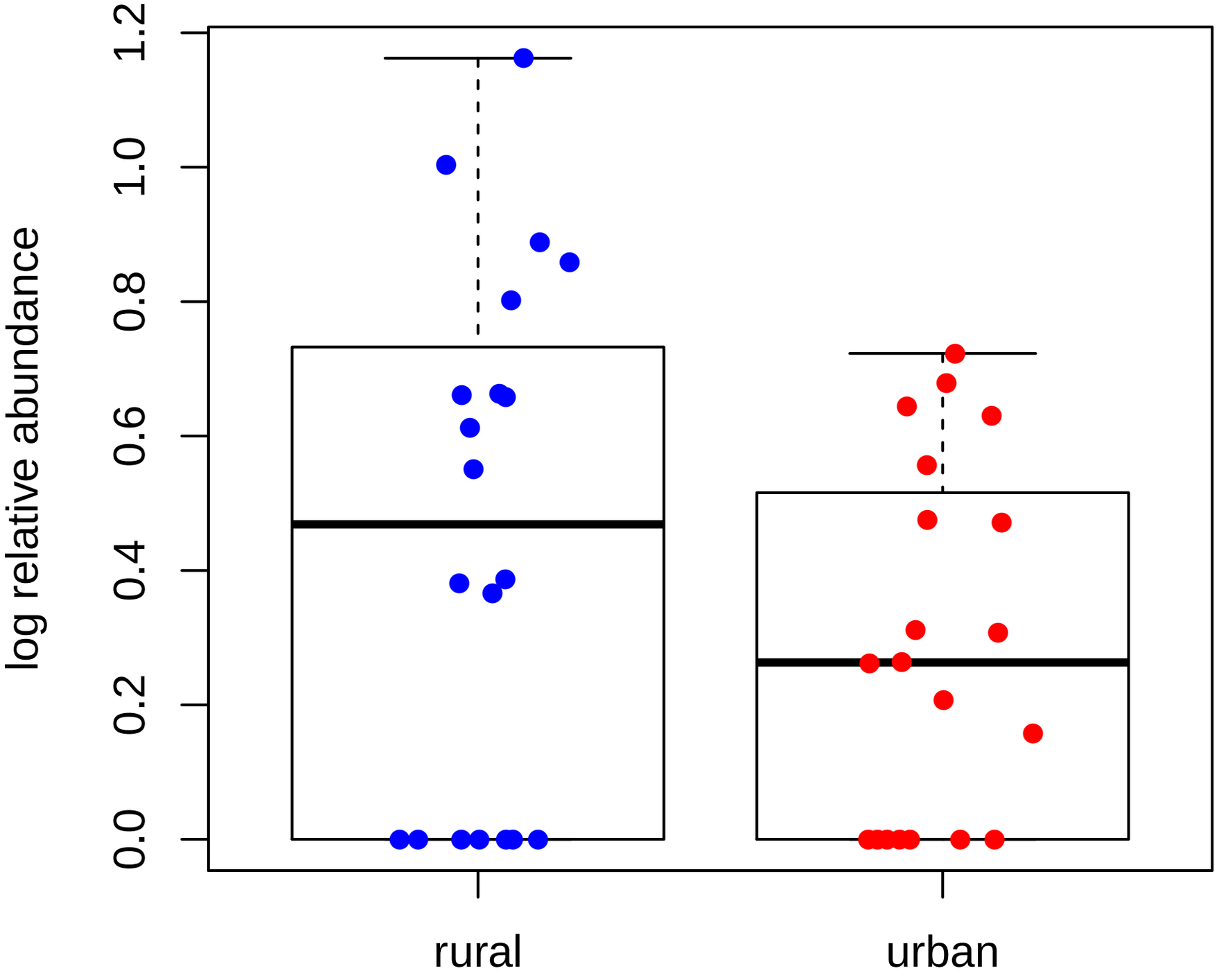

WGS species: Cronobacter_sakazakii
pAdjRuralUrban= 0.292
log relative abundance
1
2
3
4
rural
urban

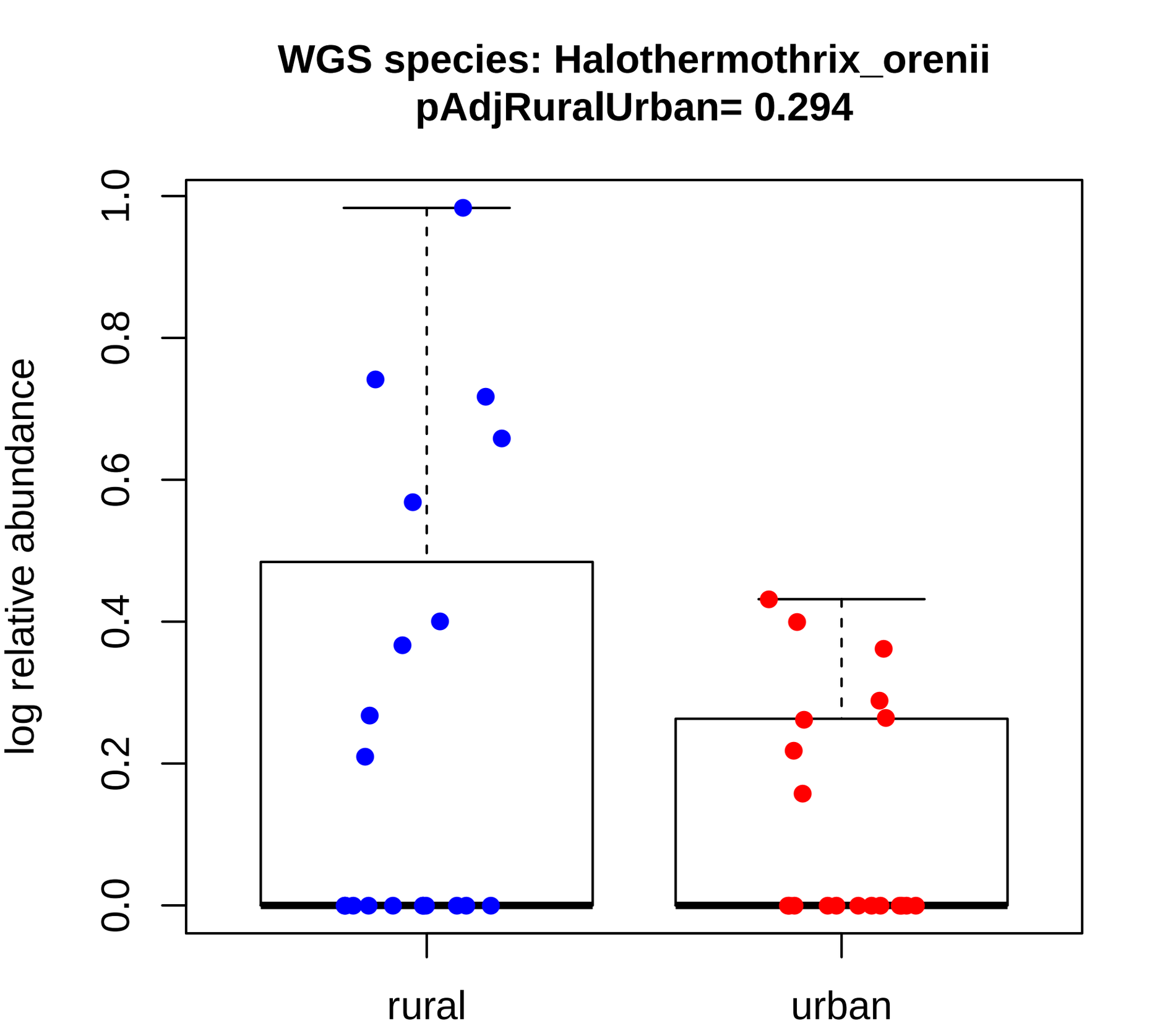

WGS species: Azoarcus_sp._KH32C
pAdjRuralUrban= 0.292
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

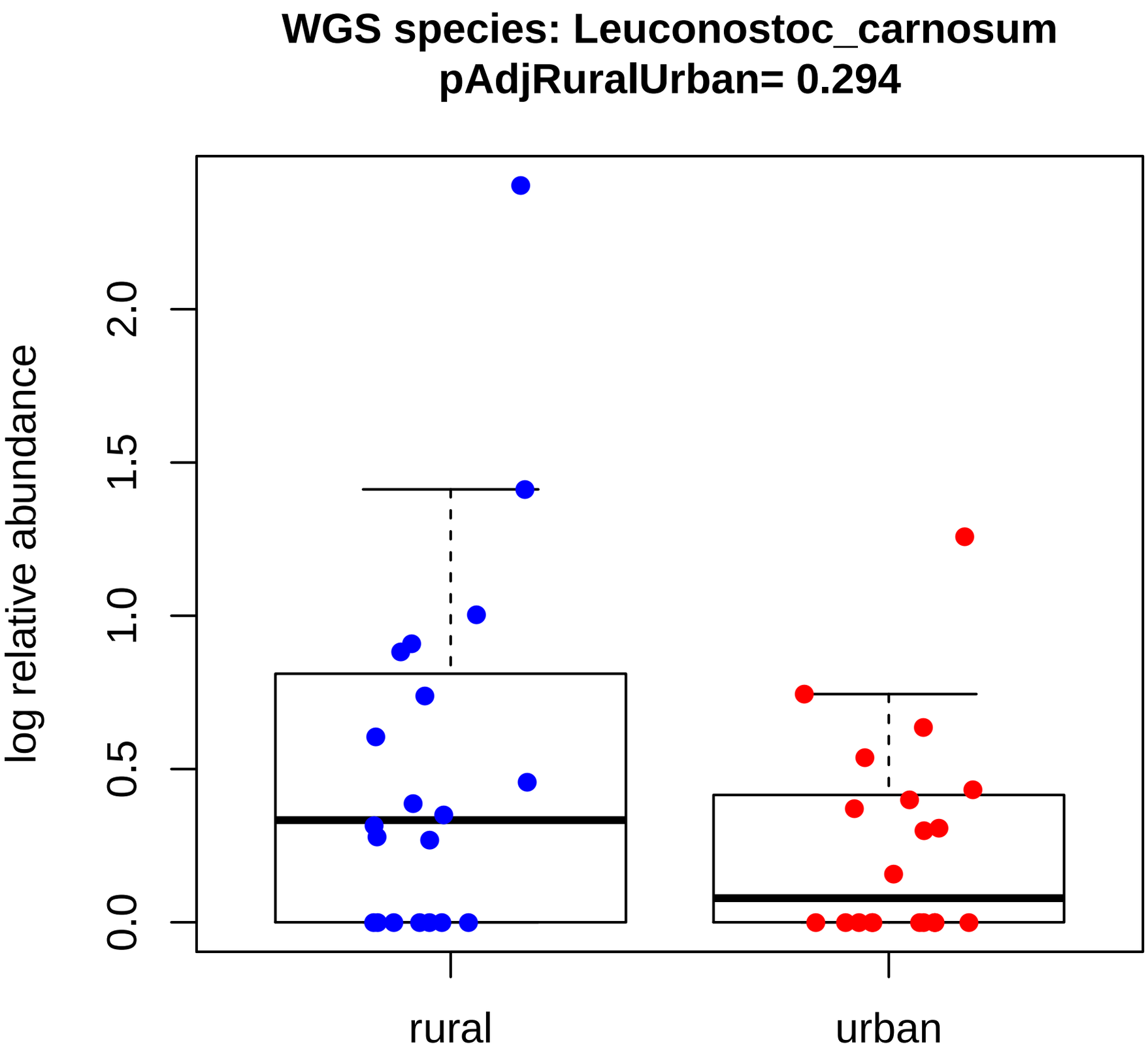

WGS species: Methanocella_paludicola
pAdjRuralUrban= 0.292
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

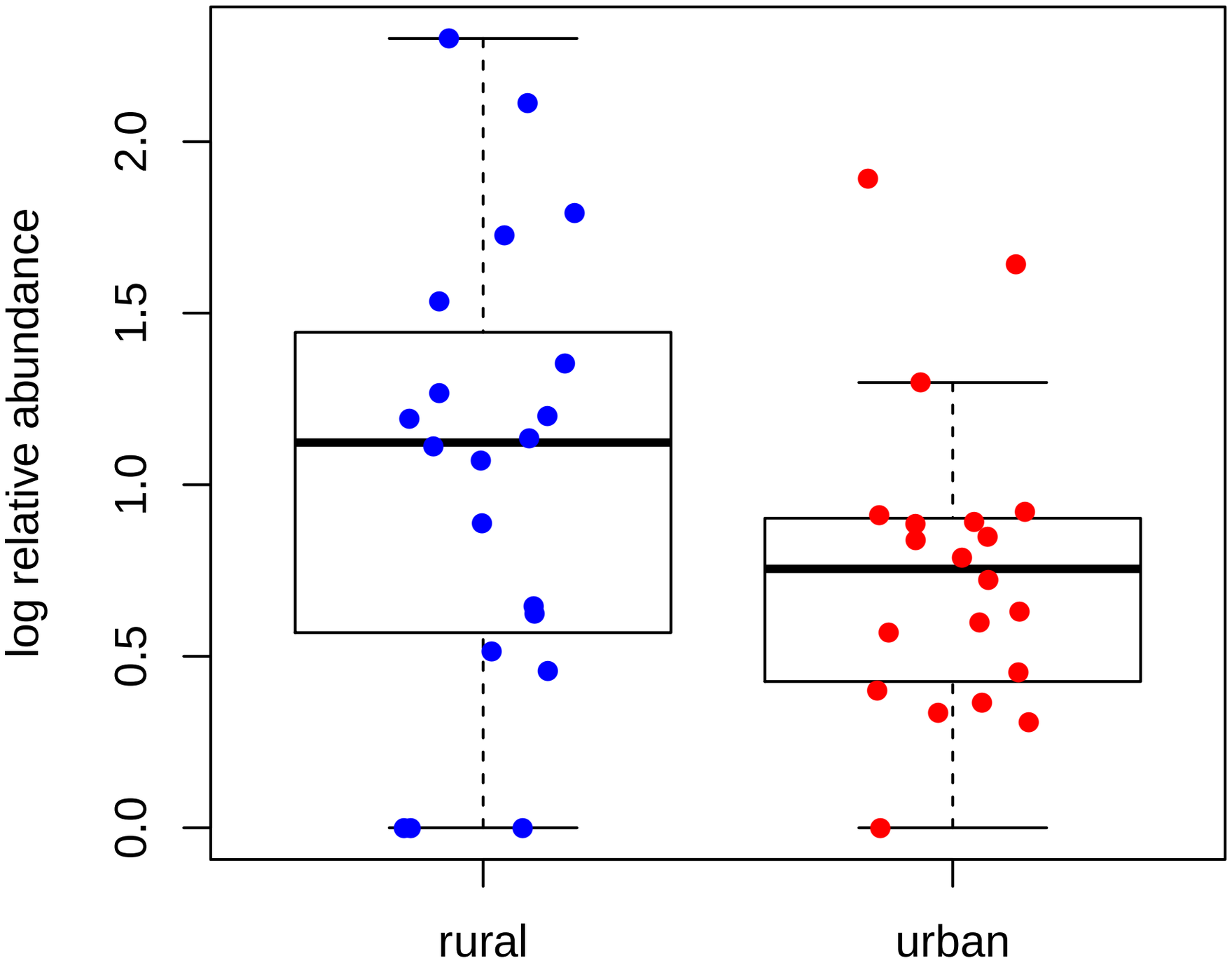

WGS species: Heliobacterium_modesticaldum
pAdjRuralUrban= 0.292
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

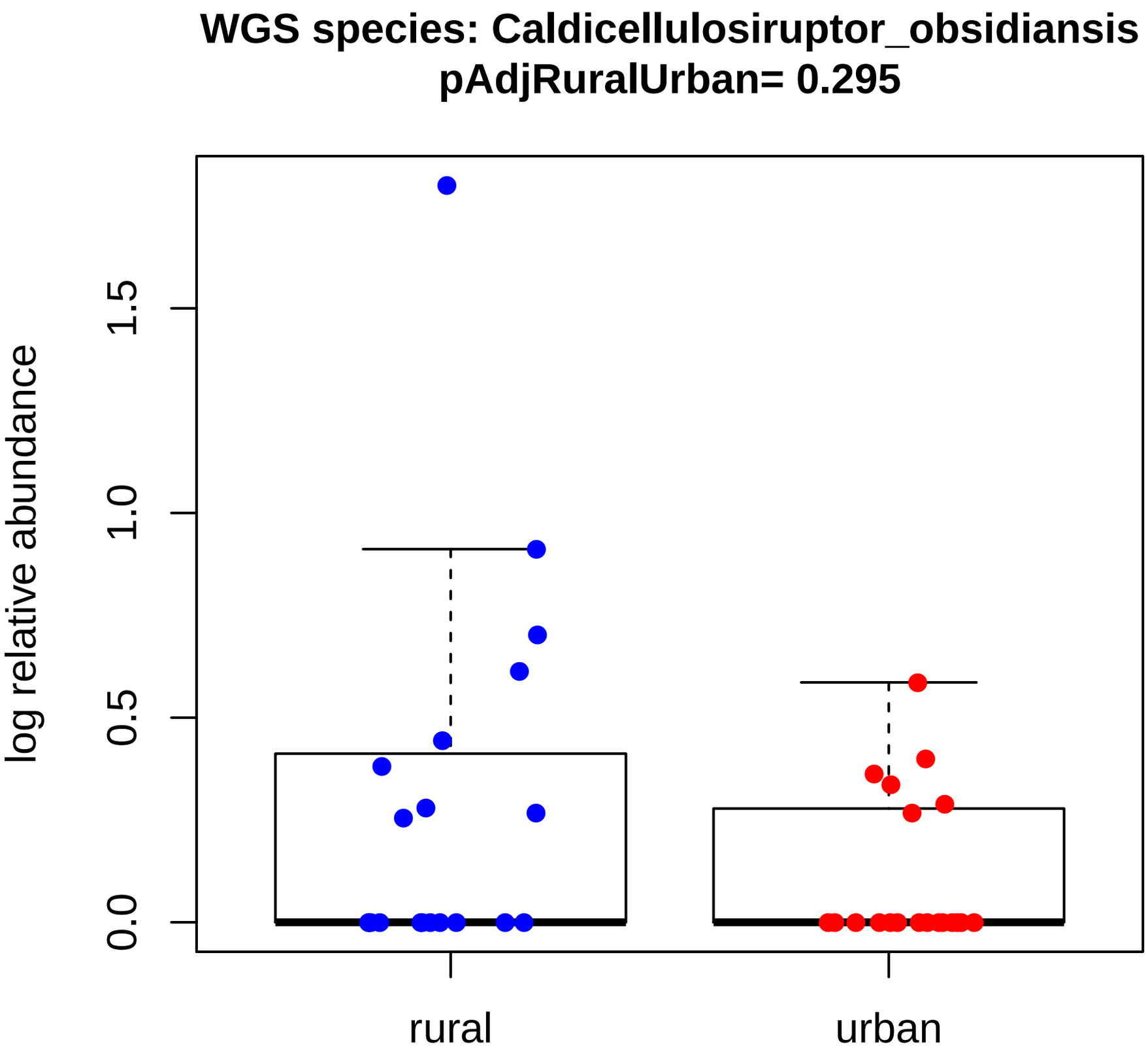

WGS species: Ochrobactrum_anthropi
pAdjRuralUrban= 0.292
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

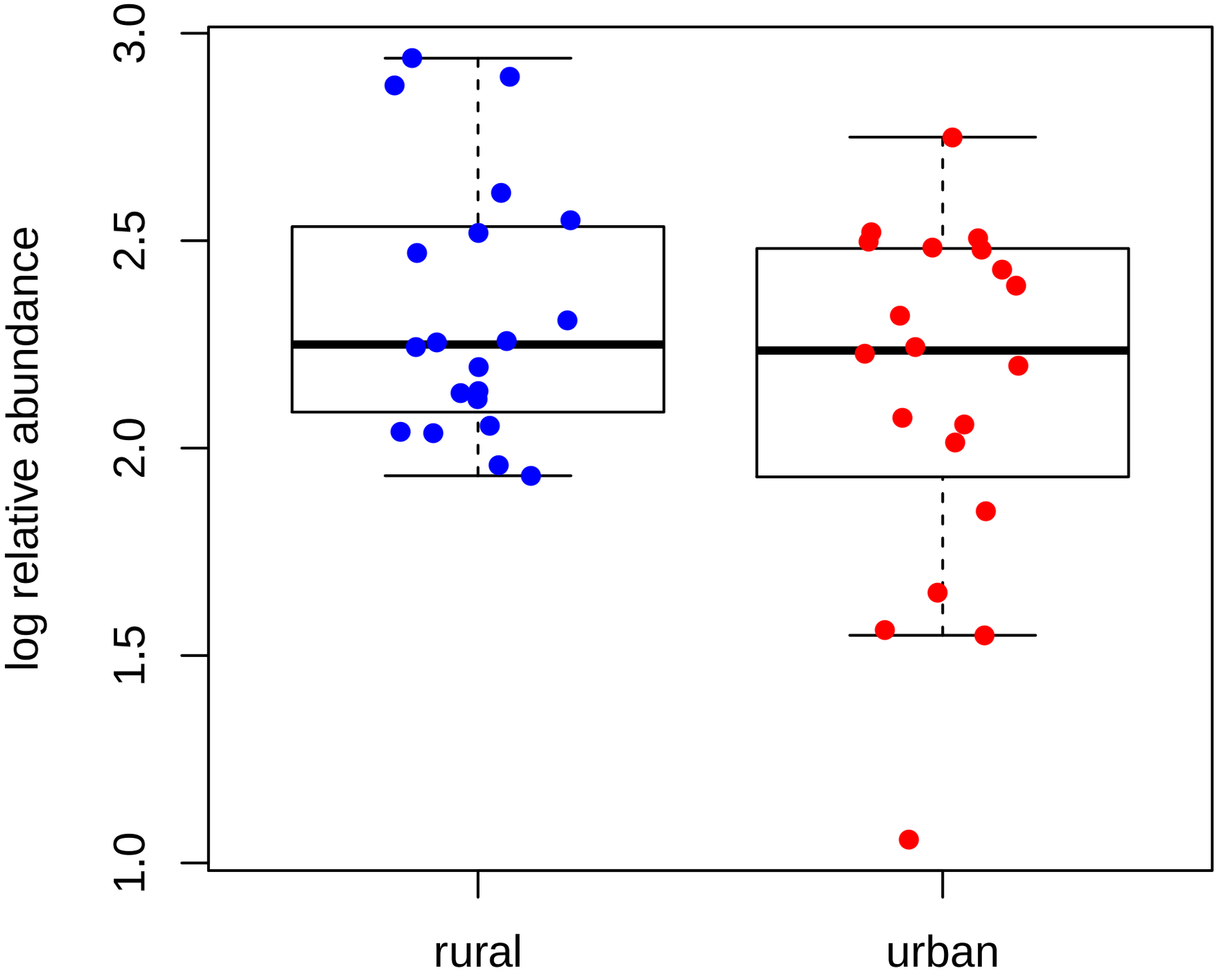

WGS species: Pirellula_staleyi
pAdjRuralUrban= 0.294
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

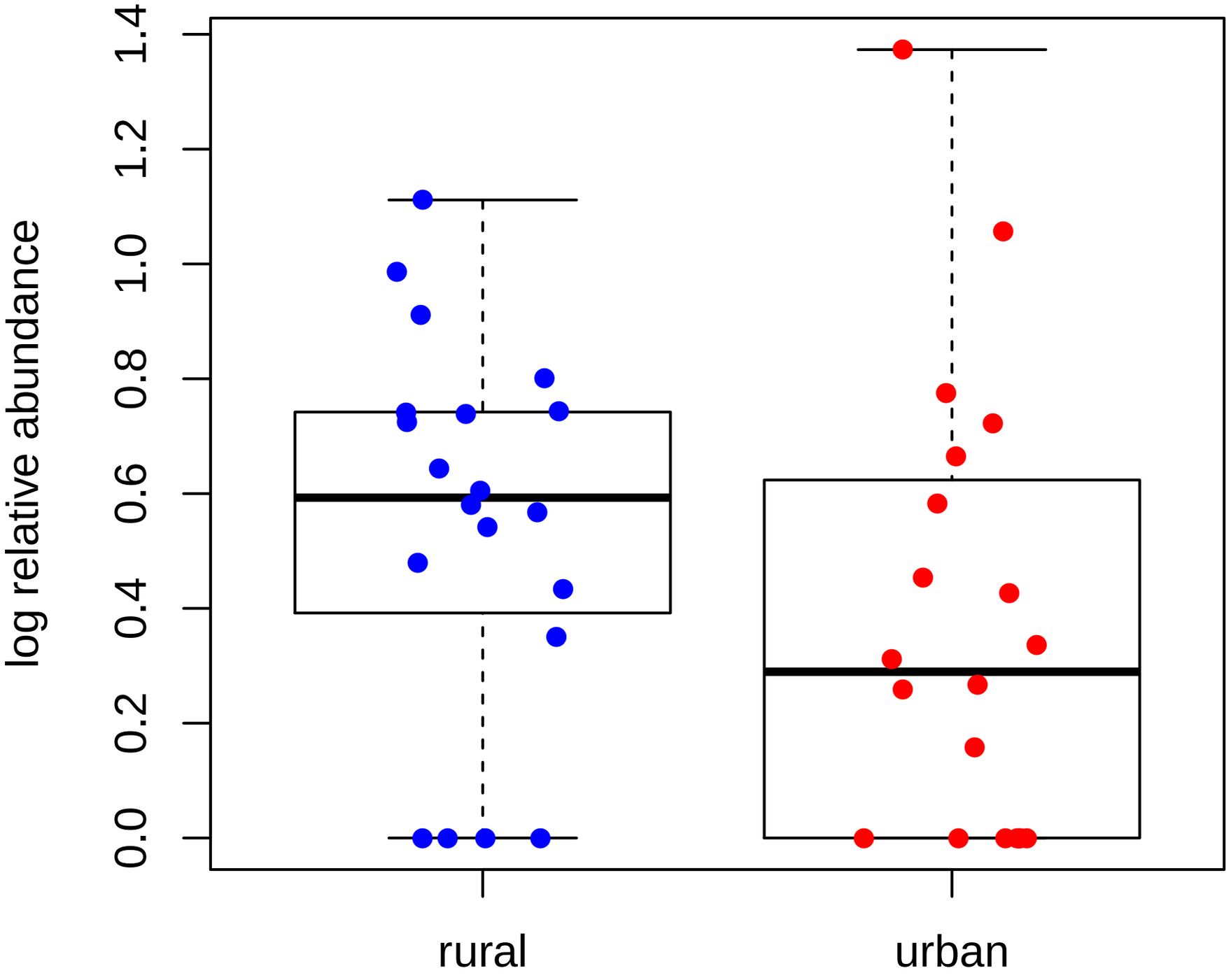

WGS species: Halothermothrix_orenii
pAdjRuralUrban= 0.294
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

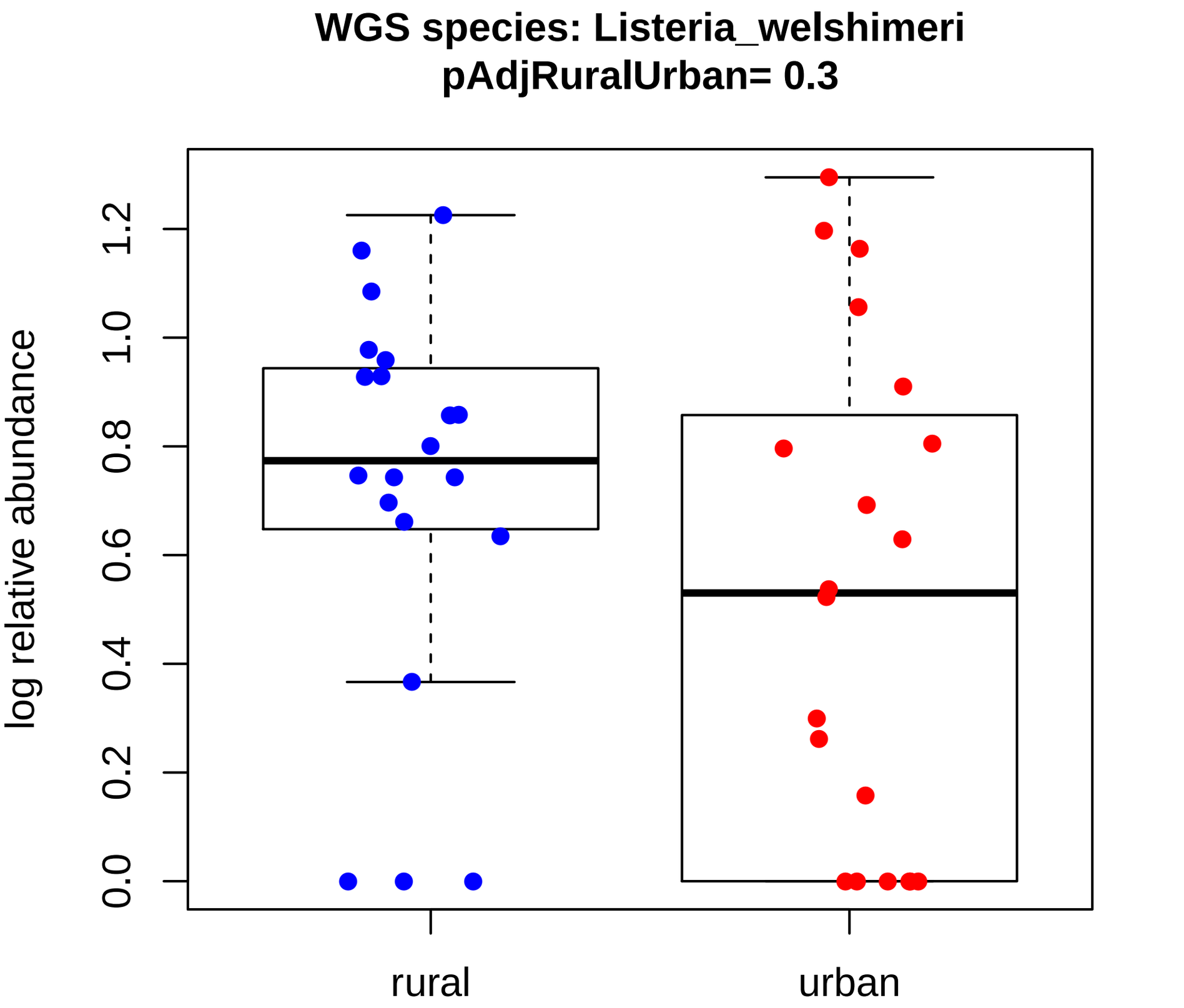

WGS species: Leuconostoc_carnosum
pAdjRuralUrban= 0.294
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

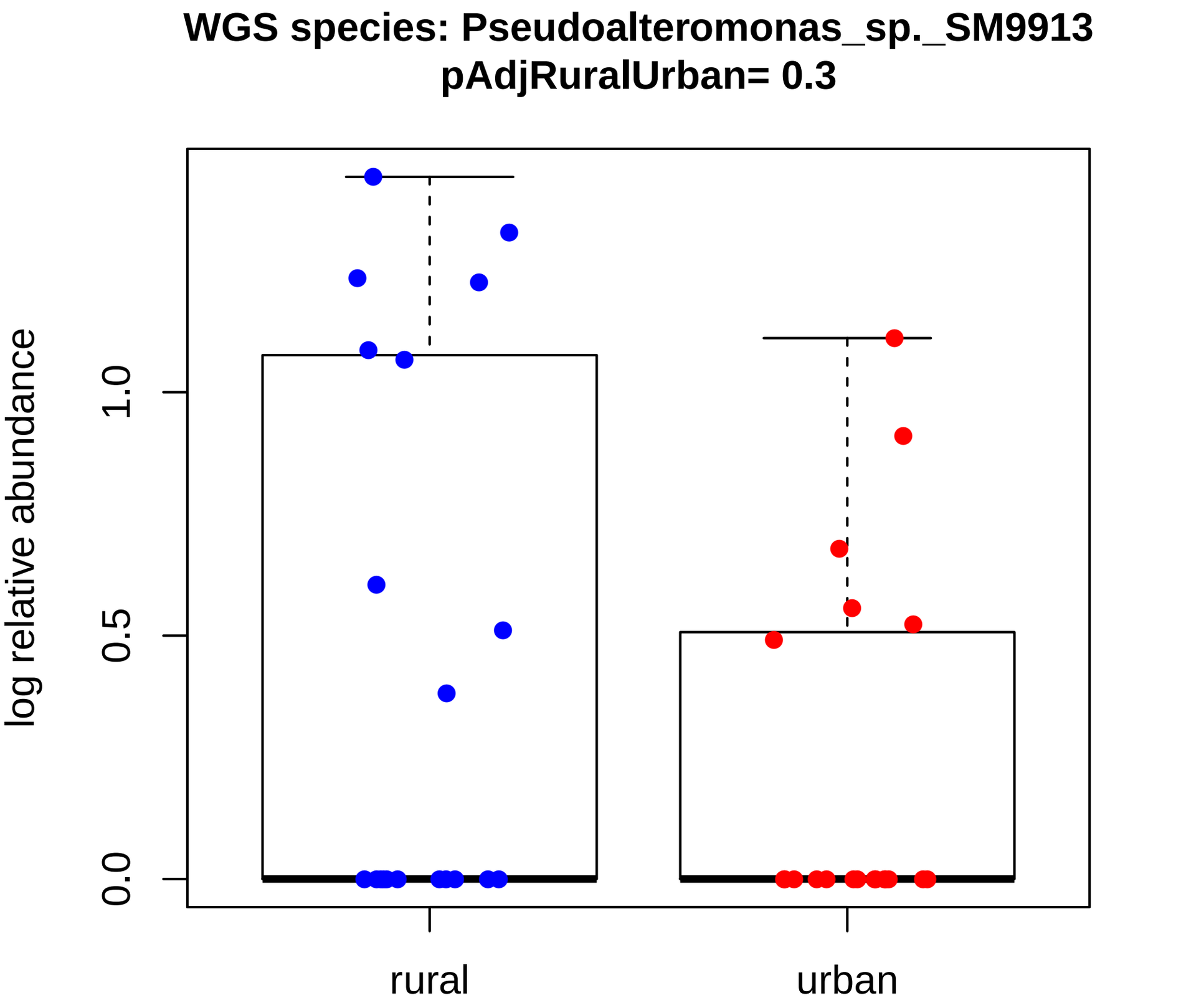

WGS species: Streptococcus_dysgalactiae
pAdjRuralUrban= 0.294
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

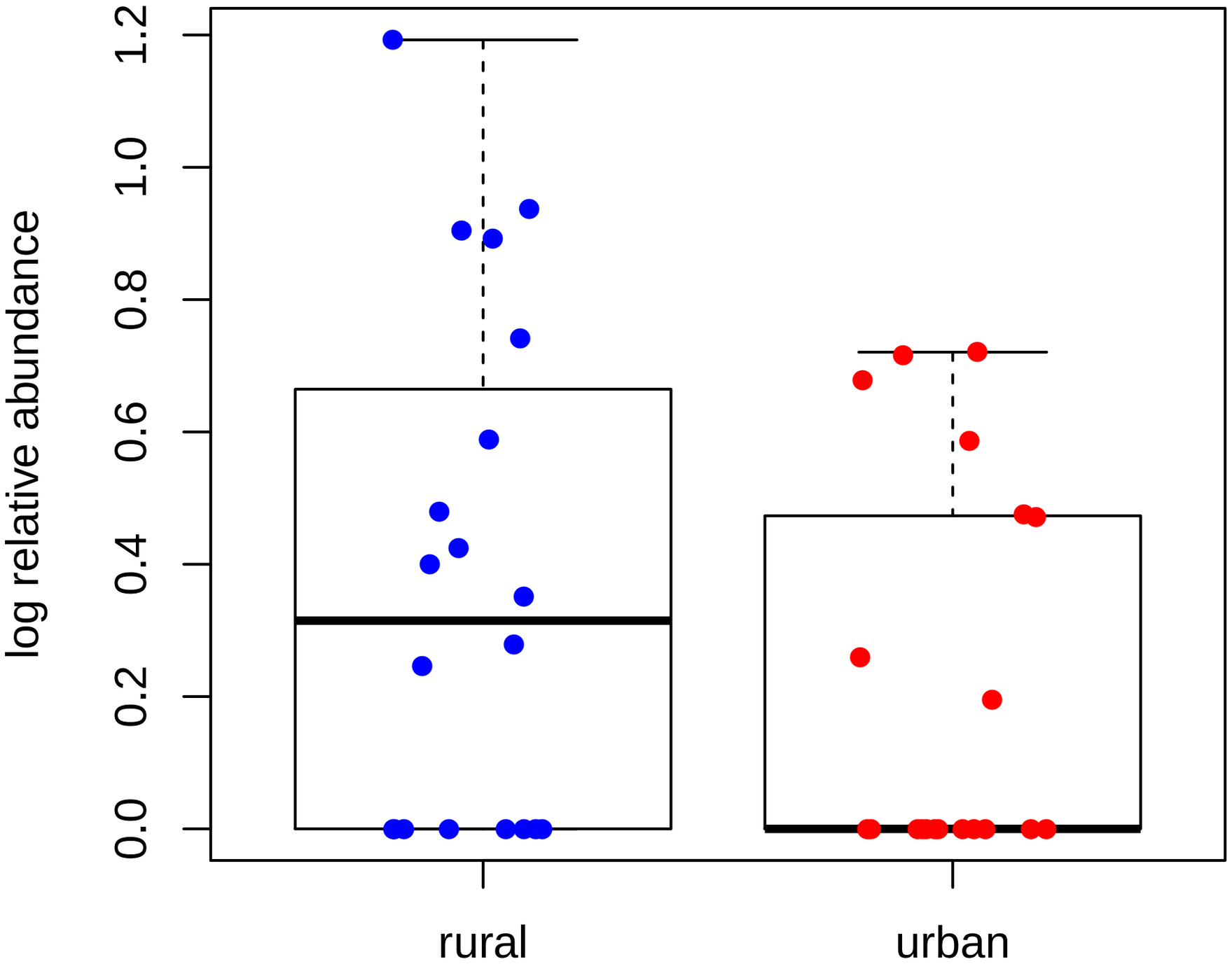

WGS species: Caldicellulosiruptor_obsidiansis
pAdjRuralUrban= 0.295
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

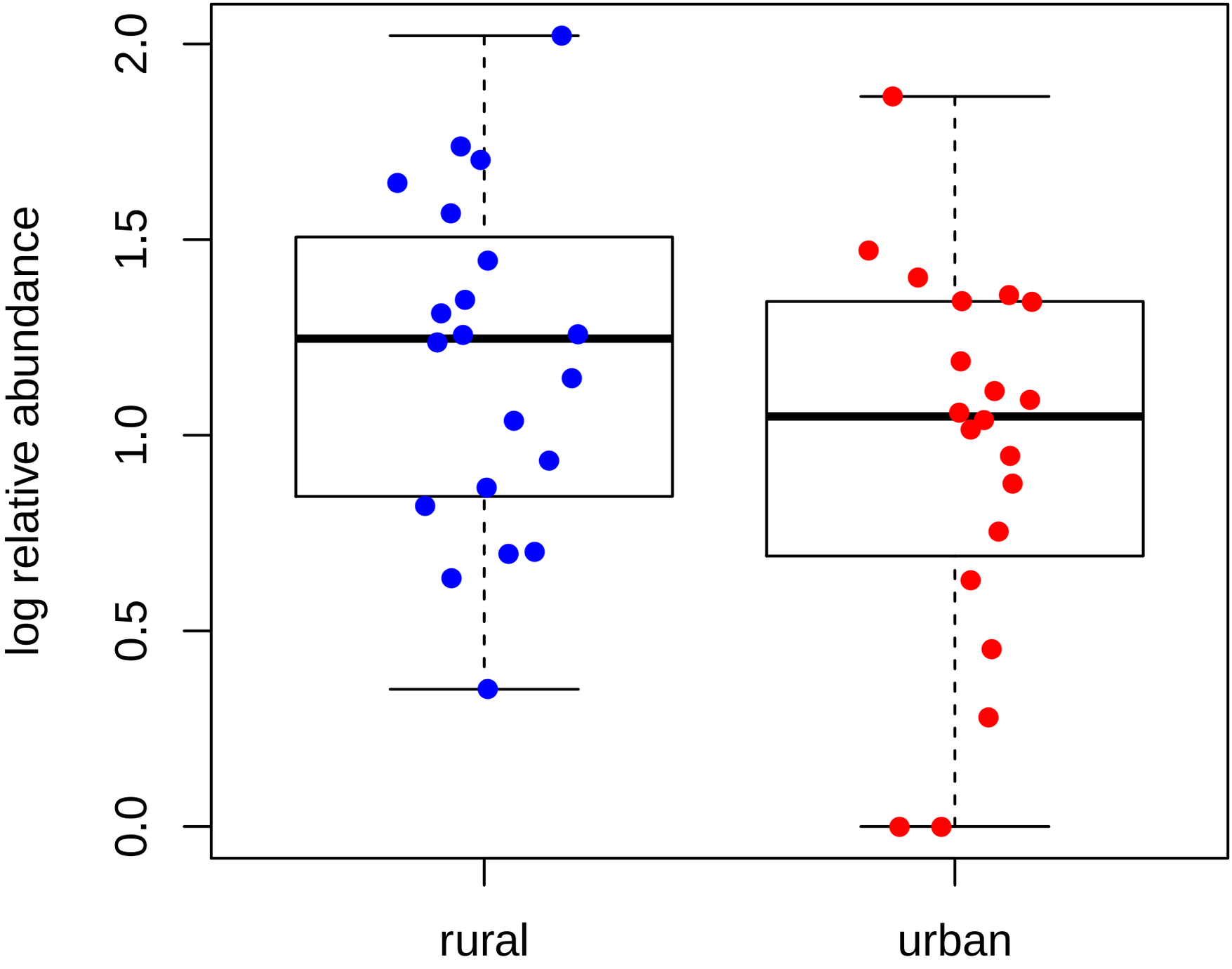

WGS species: Enterococcus_faecalis
pAdjRuralUrban= 0.295
log relative abundance
3.0
2.5
2.0
1.5
1.0
rural
urban

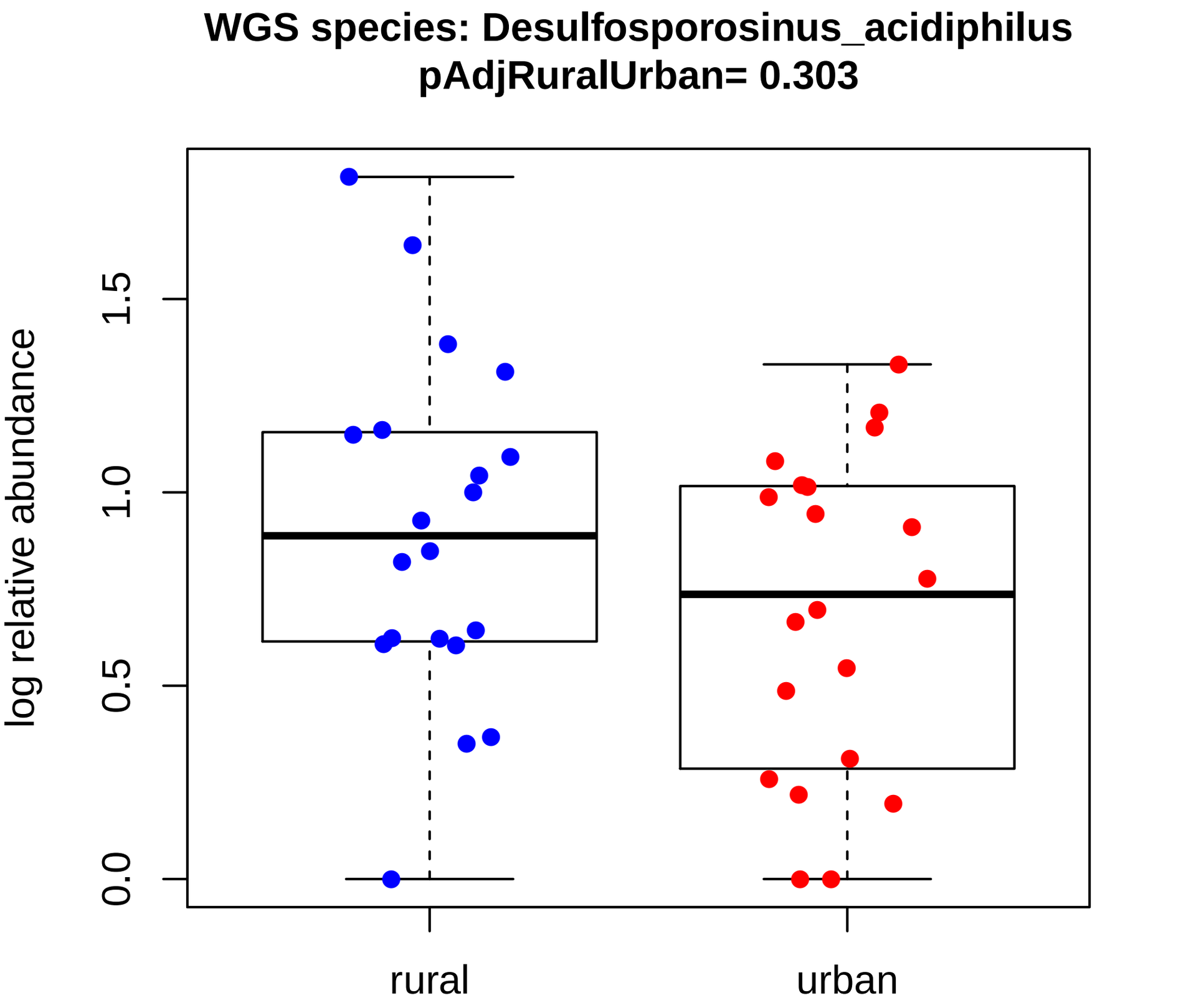

WGS species: Myxococcus_xanthus
pAdjRuralUrban= 0.3
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

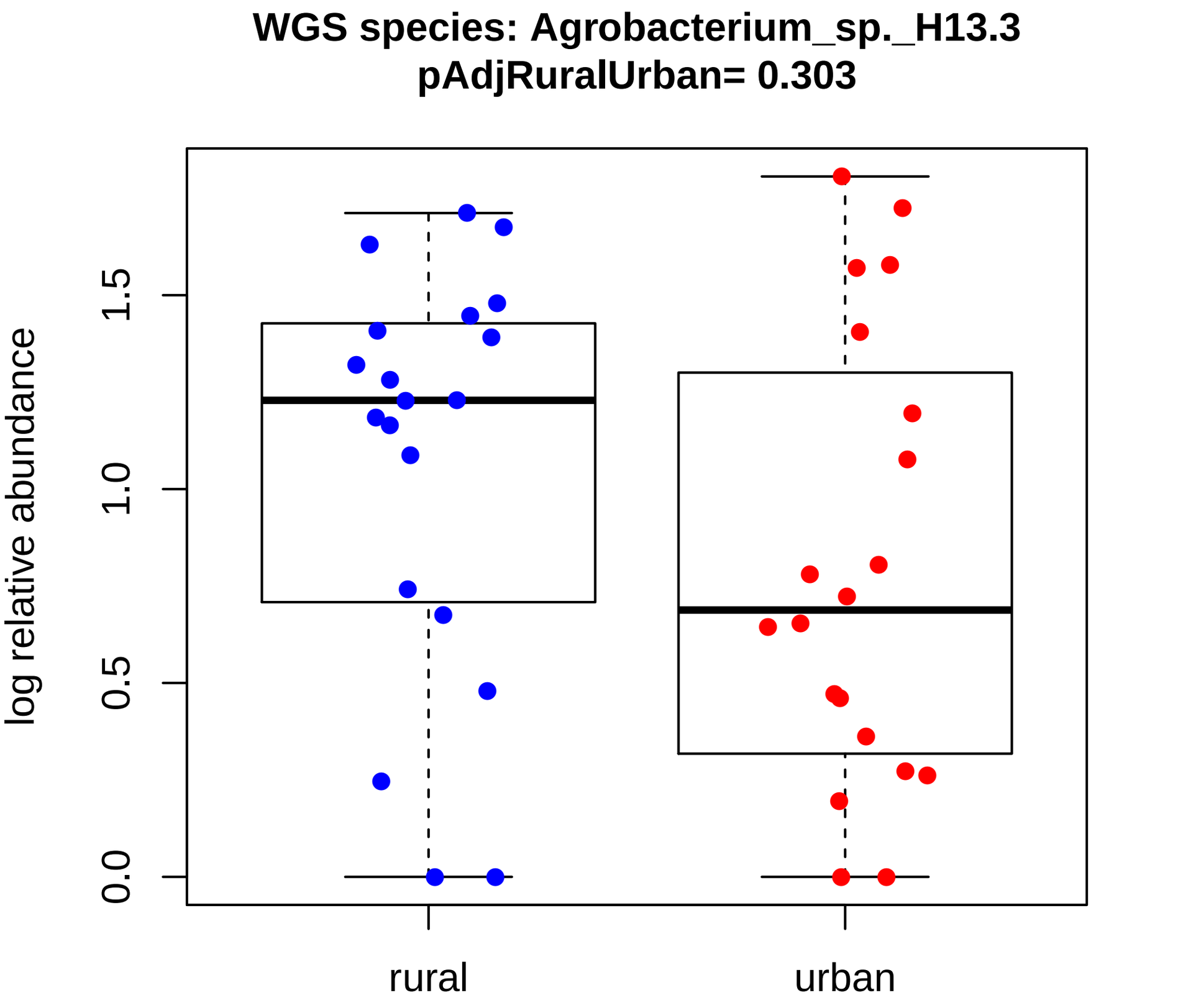

WGS species: Listeria_welshimeri
pAdjRuralUrban= 0.3
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

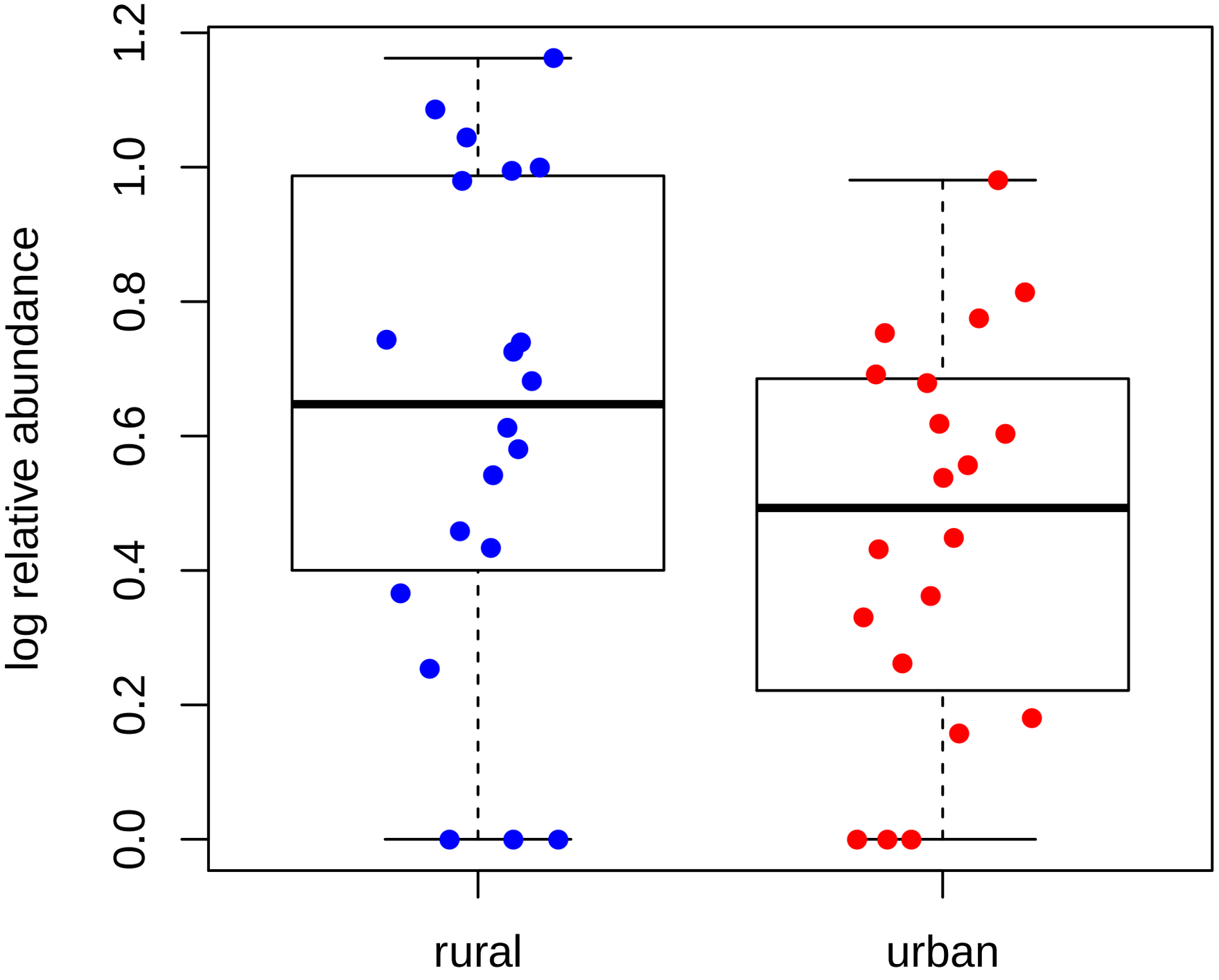

WGS species: Pseudoalteromonas_sp._SM9913
pAdjRuralUrban= 0.3
log relative abundance
0.0
0.5
1.0
rural
urban

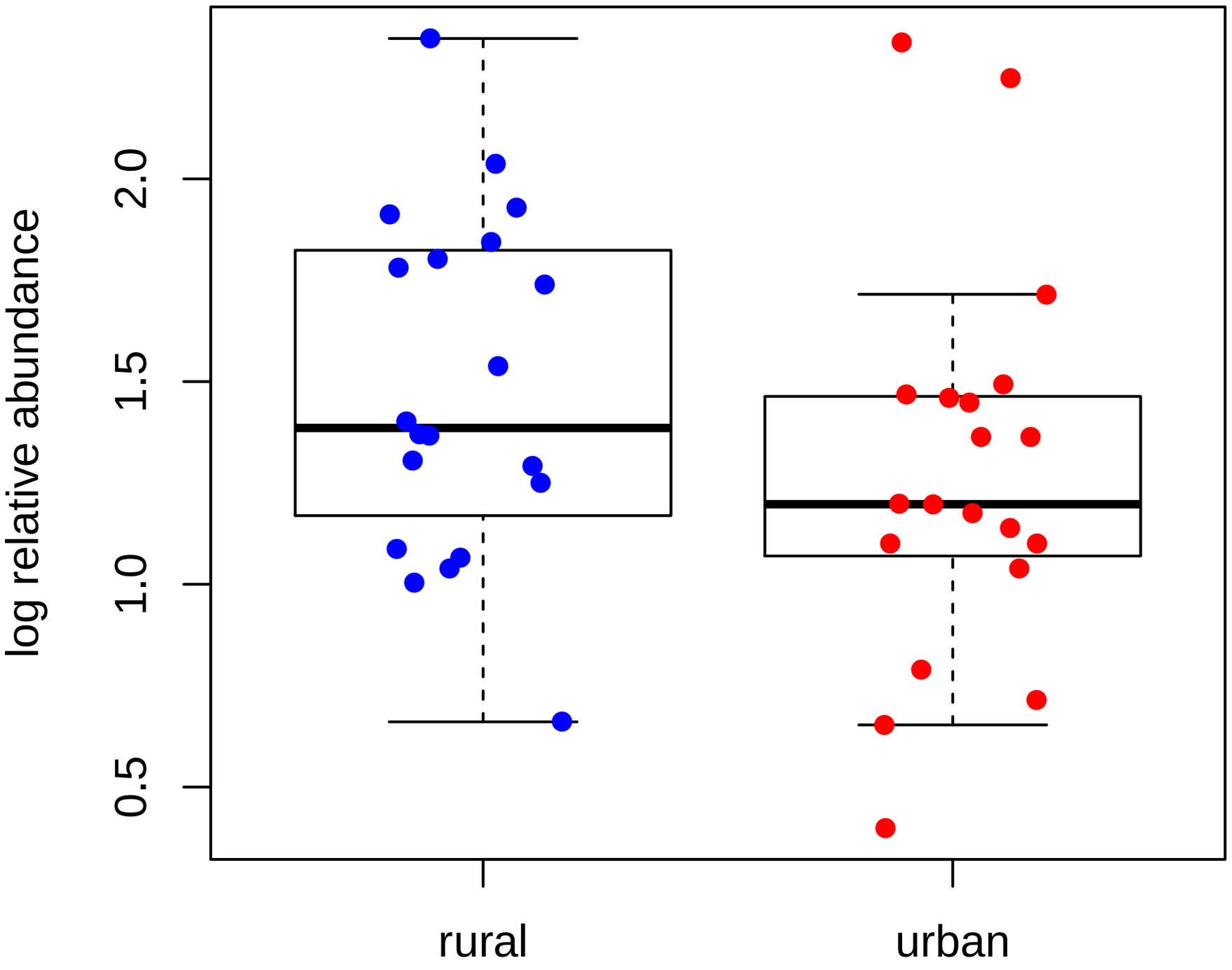

WGS species: Bradyrhizobium_japonicum
pAdjRuralUrban= 0.3
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

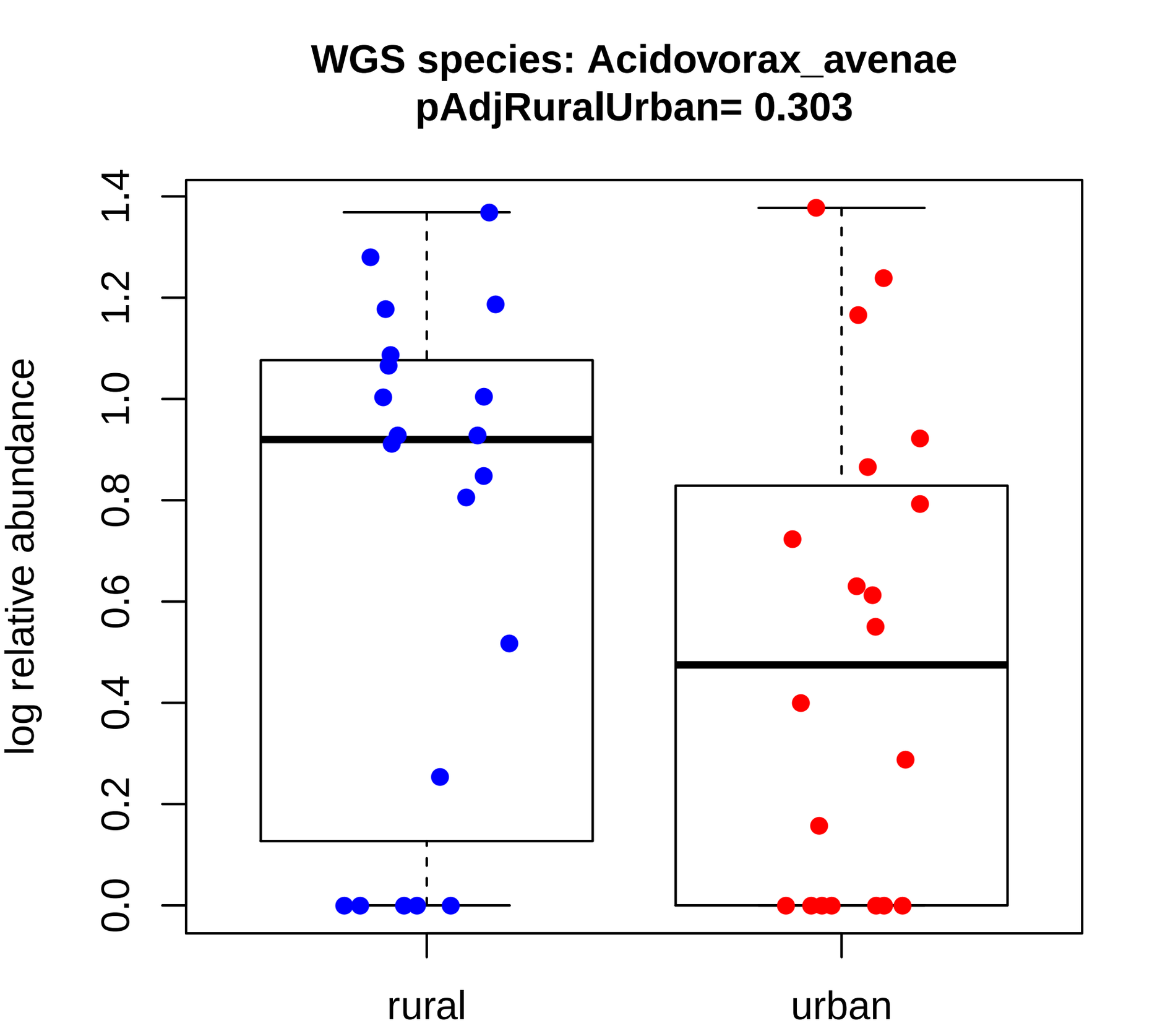

WGS species: Dichelobacter_nodosus
pAdjRuralUrban= 0.302
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

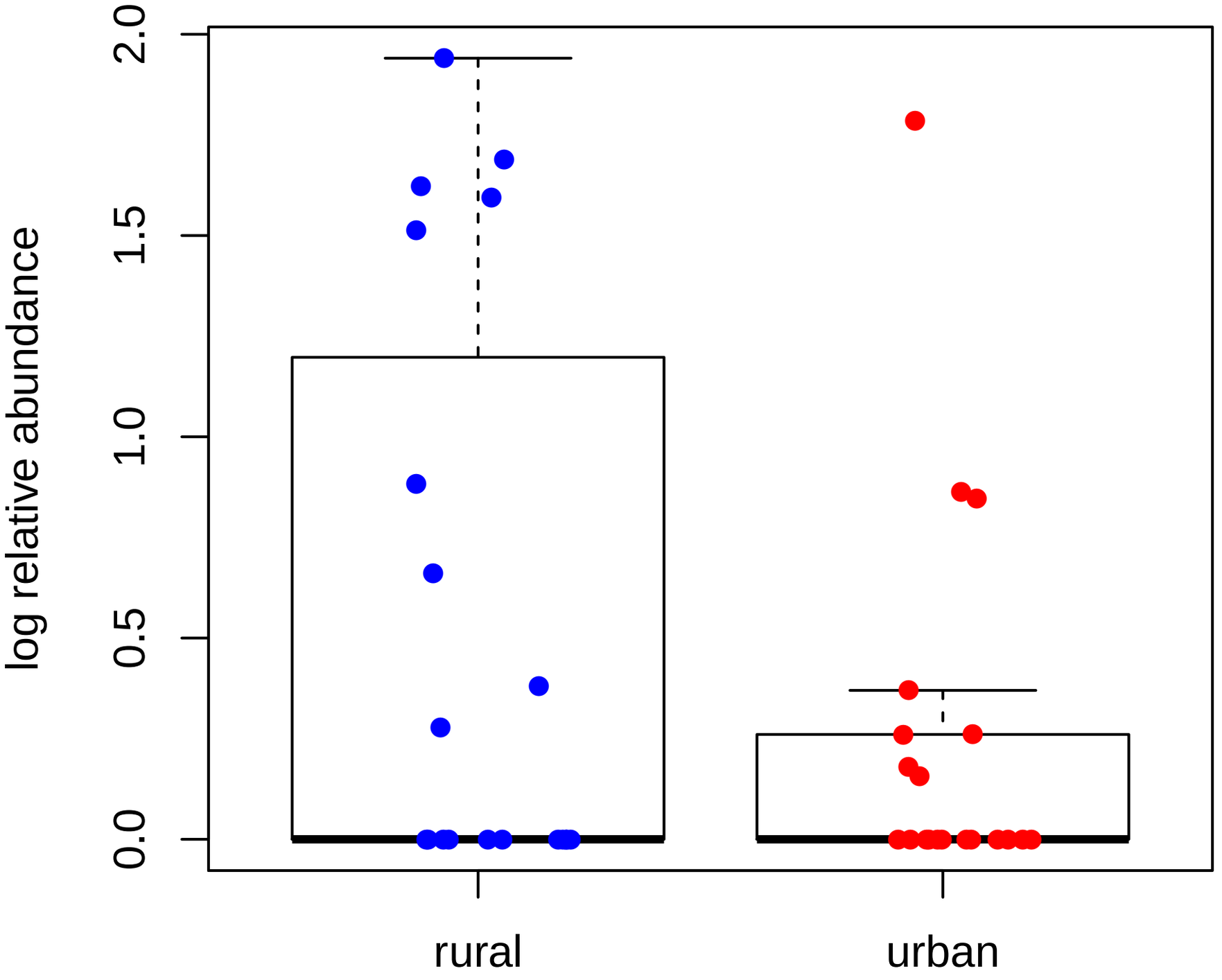

WGS species: Desulfosporosinus_acidiphilus
pAdjRuralUrban= 0.303
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

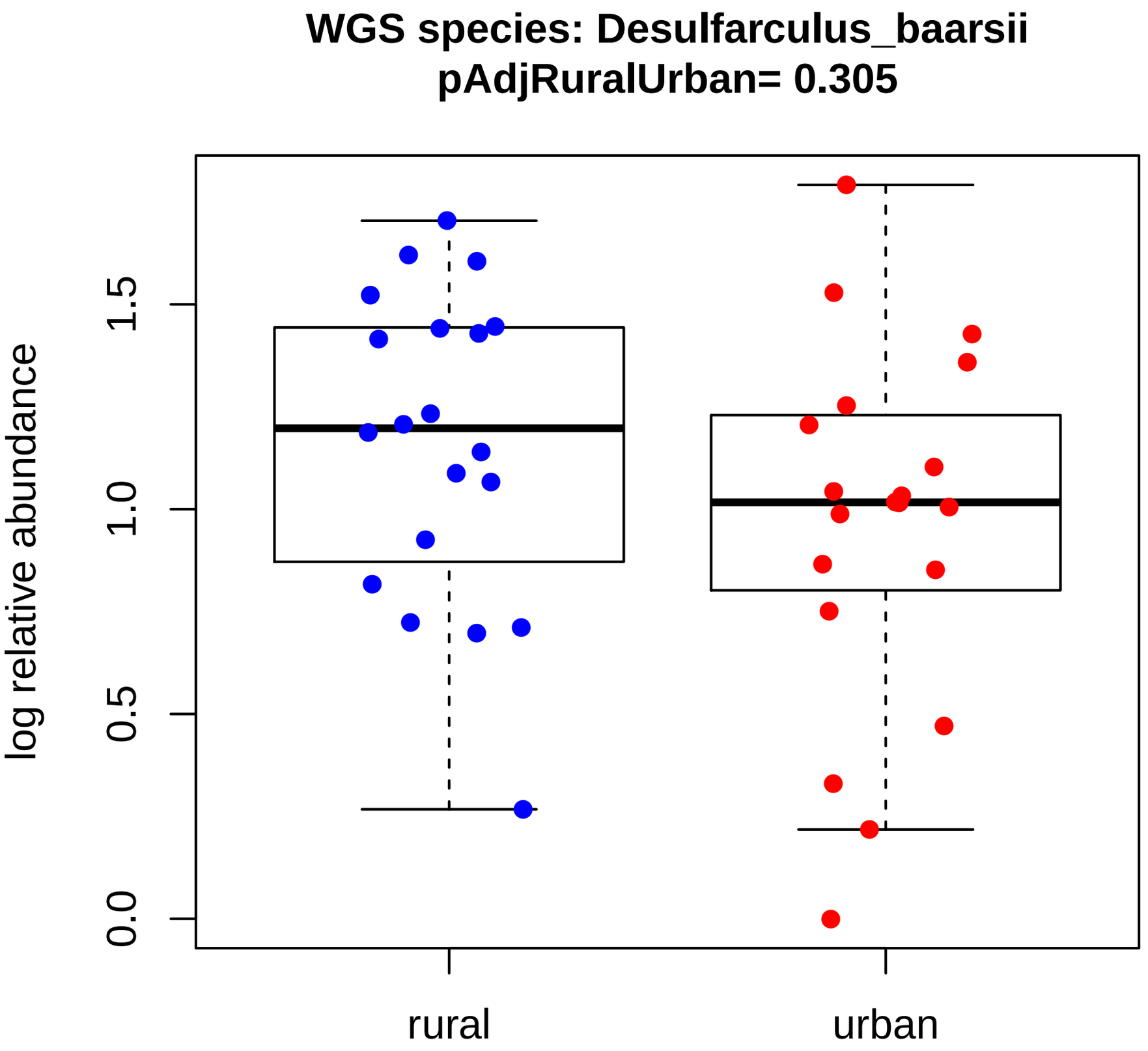

WGS species: Agrobacterium_sp._H13.3
pAdjRuralUrban= 0.303
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

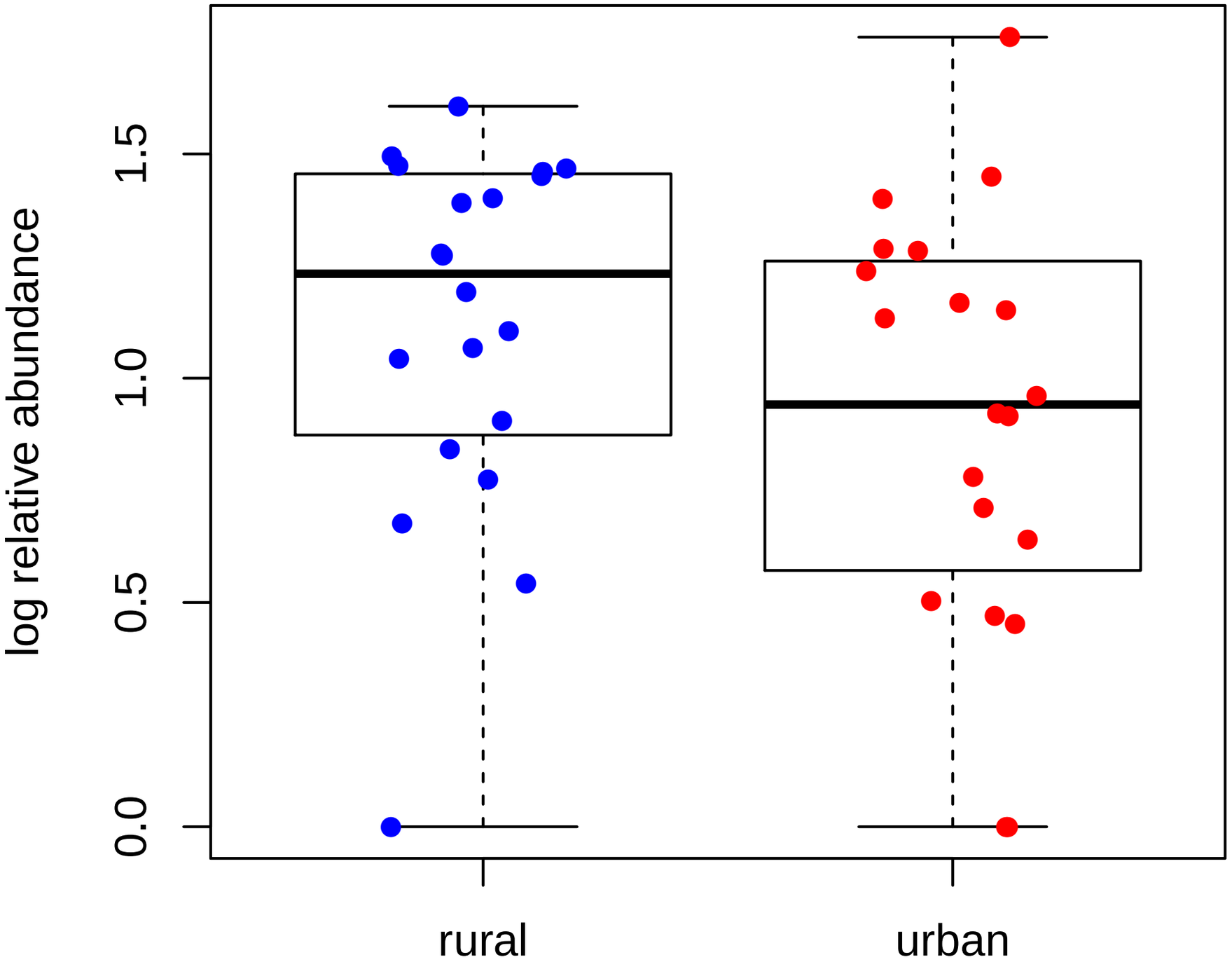

WGS species: Mesorhizobium_opportunistum
pAdjRuralUrban= 0.303
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

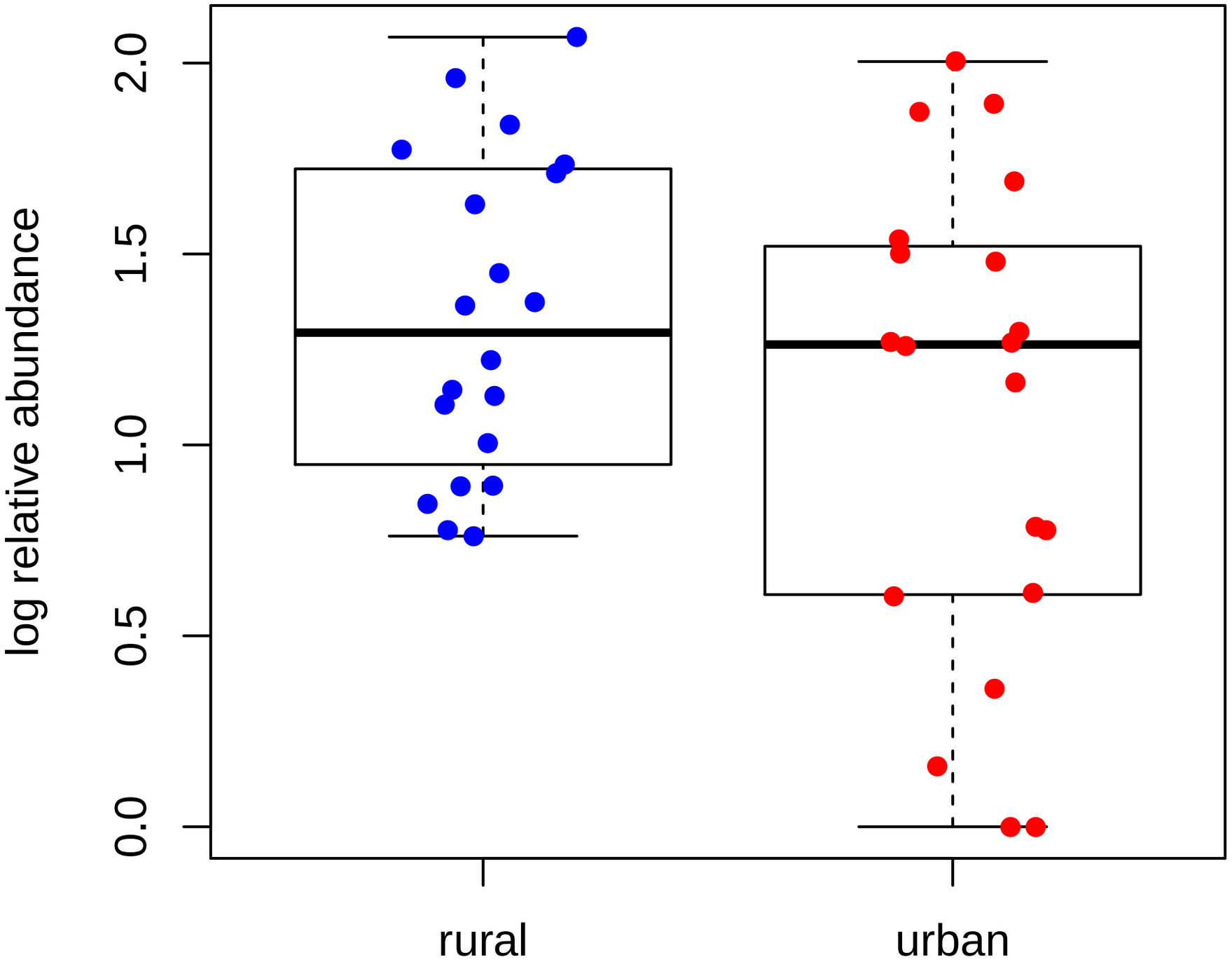

WGS species: Clostridium_saccharobutylicum
pAdjRuralUrban= 0.303
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

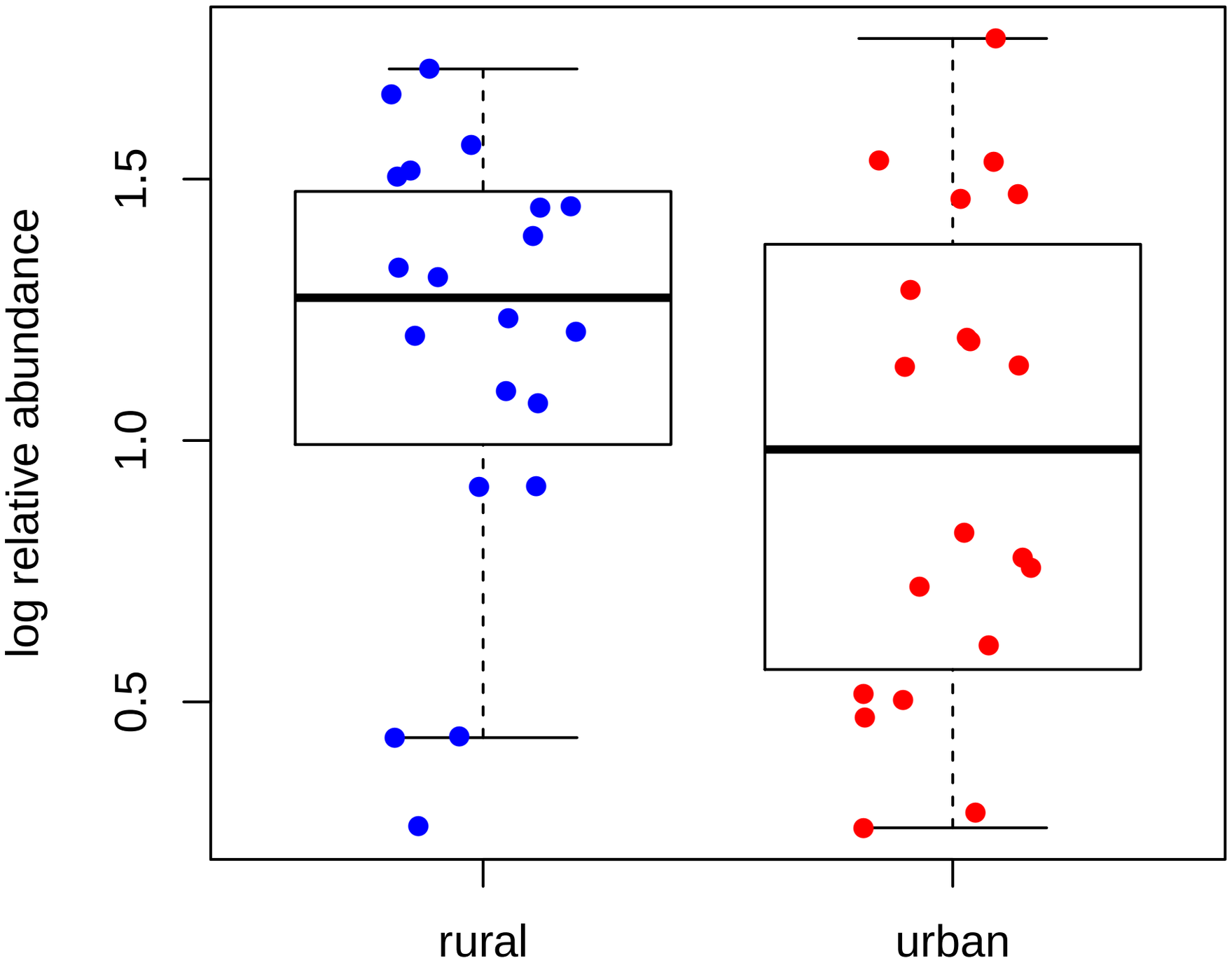

WGS species: Acidovorax_avenae
pAdjRuralUrban= 0.303
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

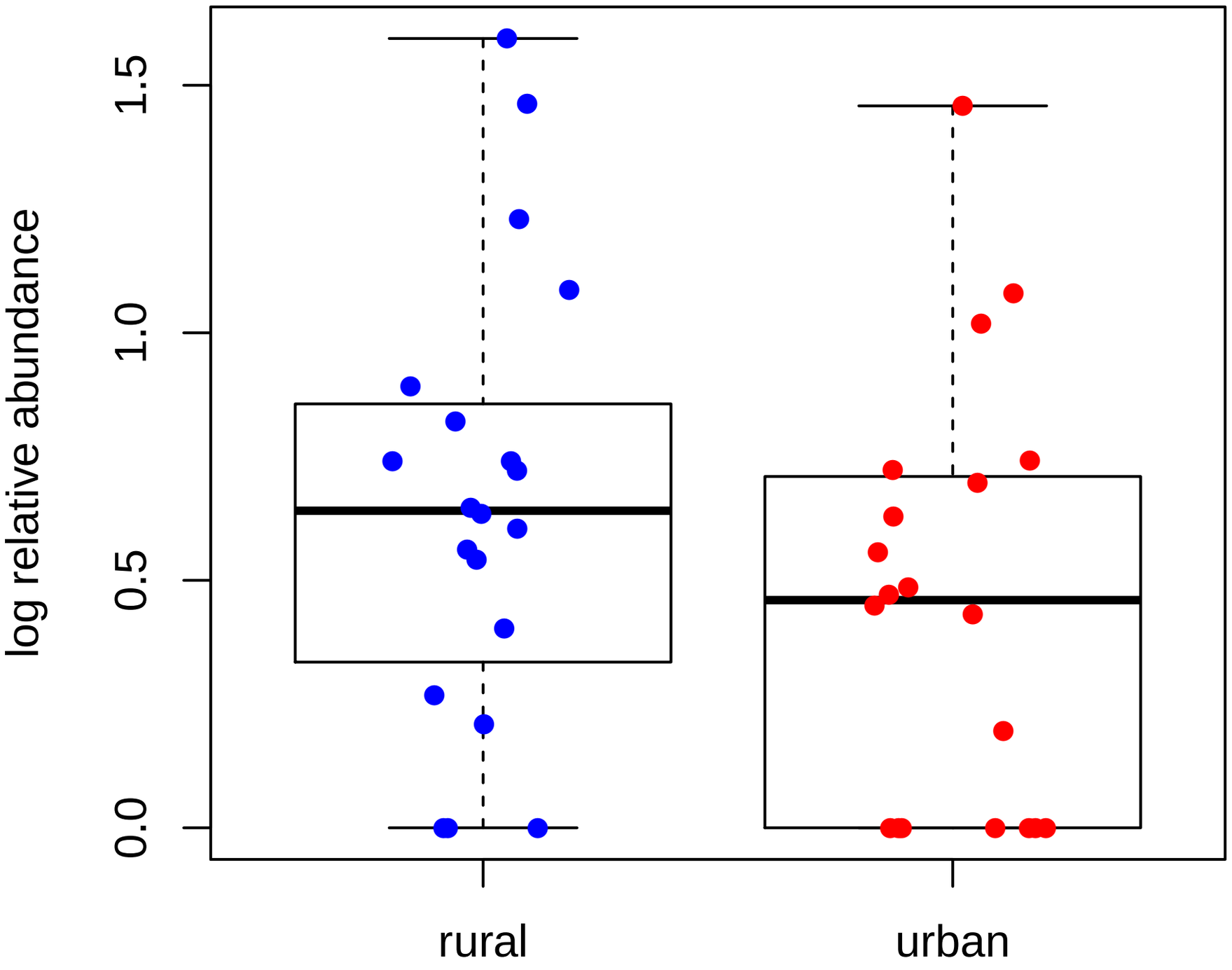

WGS species: Shewanella_pealeana
pAdjRuralUrban= 0.303
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

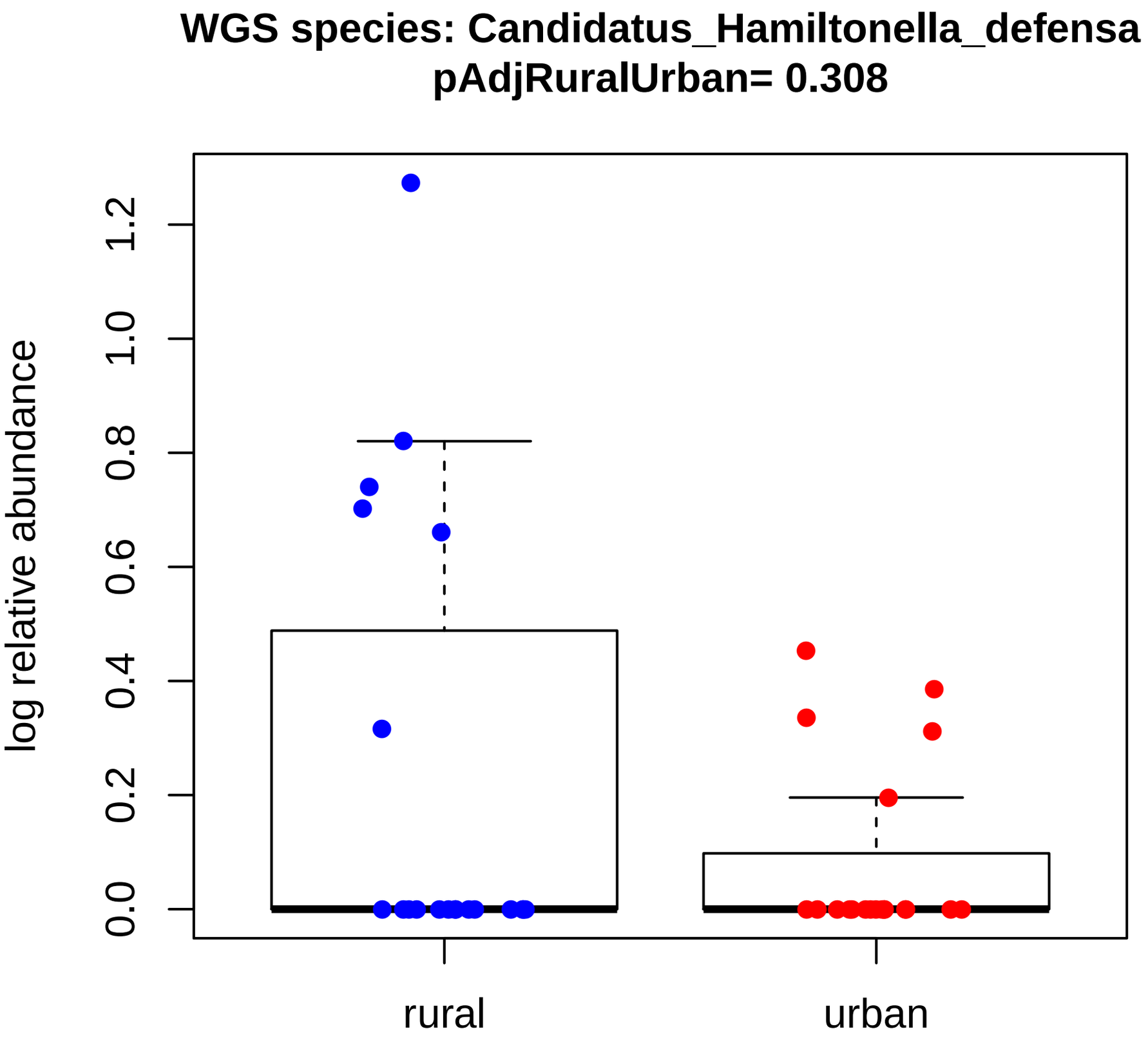

WGS species: Desulfarculus_baarsii
pAdjRuralUrban= 0.305
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

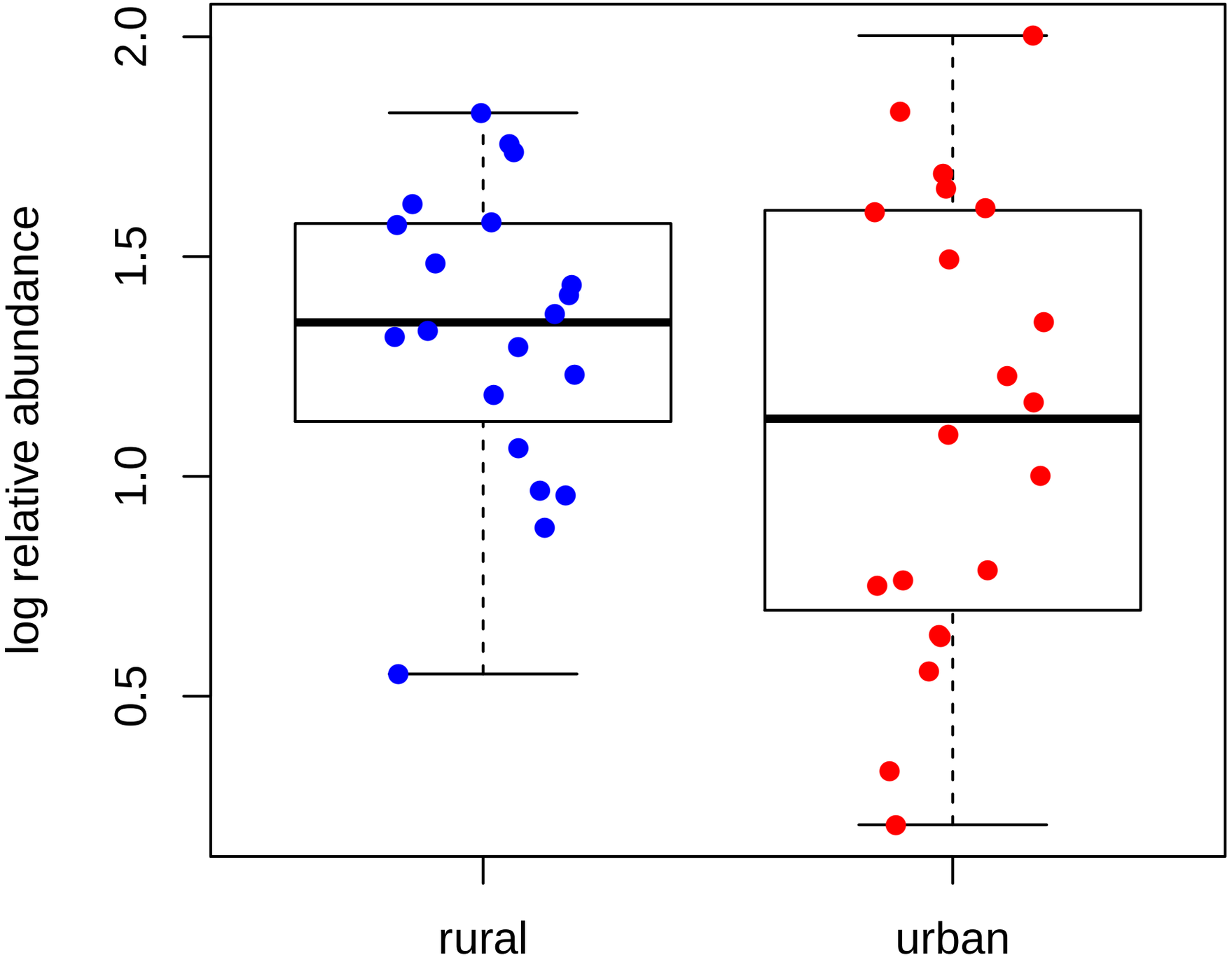

WGS species: Desulfurispirillum_indicum
pAdjRuralUrban= 0.306
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

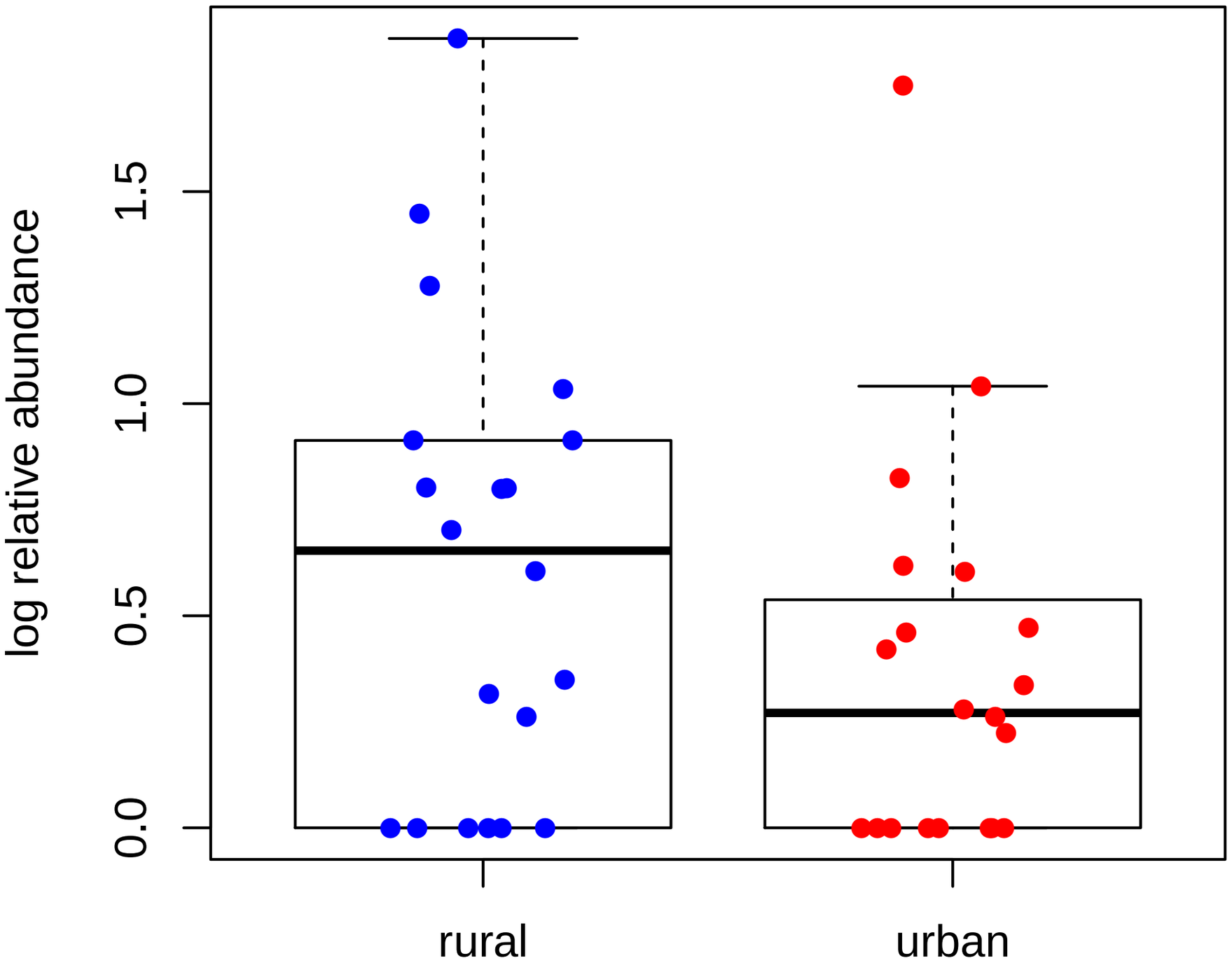

WGS species: Capnocytophaga_ochracea
pAdjRuralUrban= 0.306
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

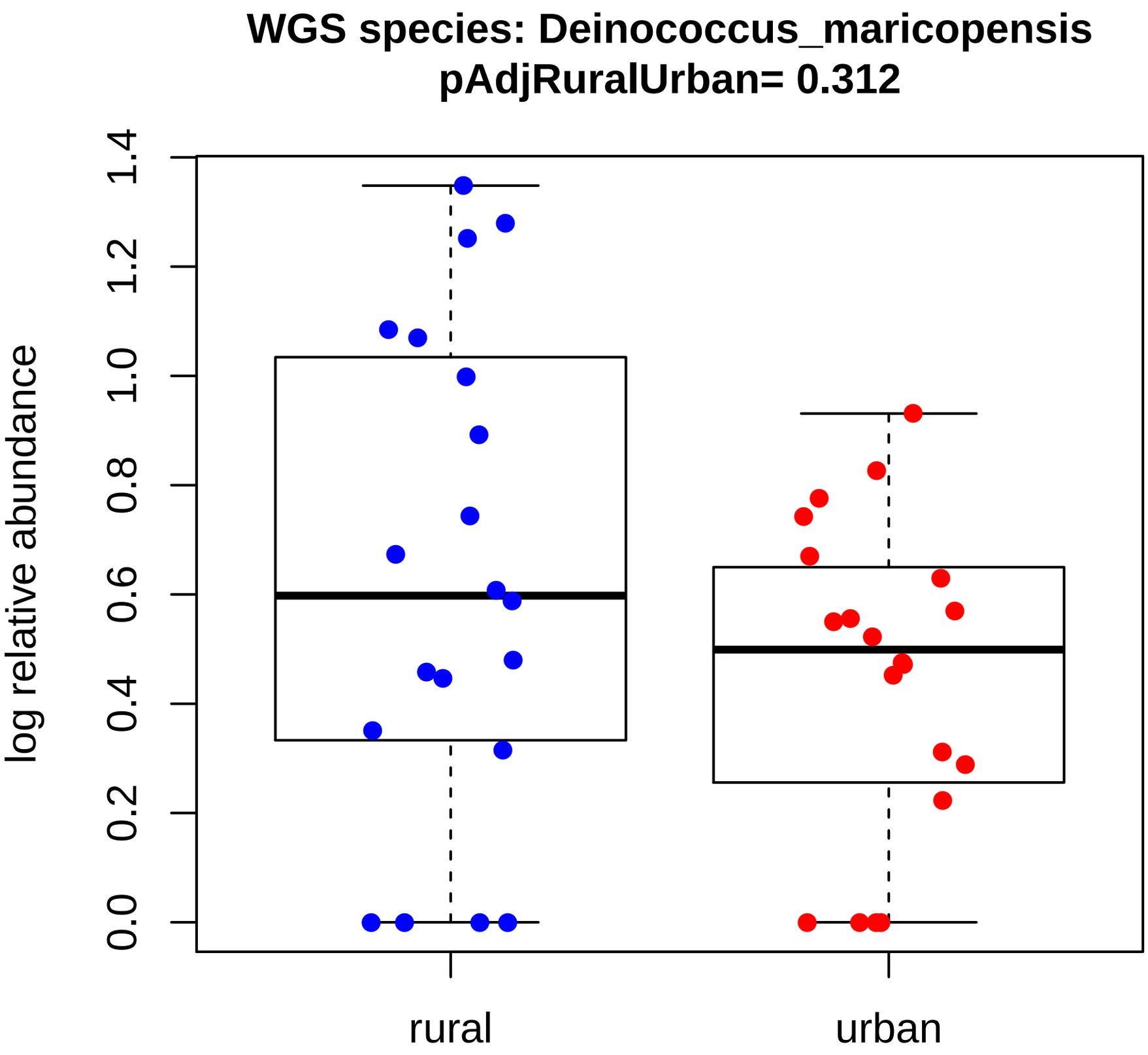

WGS species: Desulfovibrio_alaskensis
pAdjRuralUrban= 0.306
log relative abundance
0.5
1.0
1.5
rural
urban

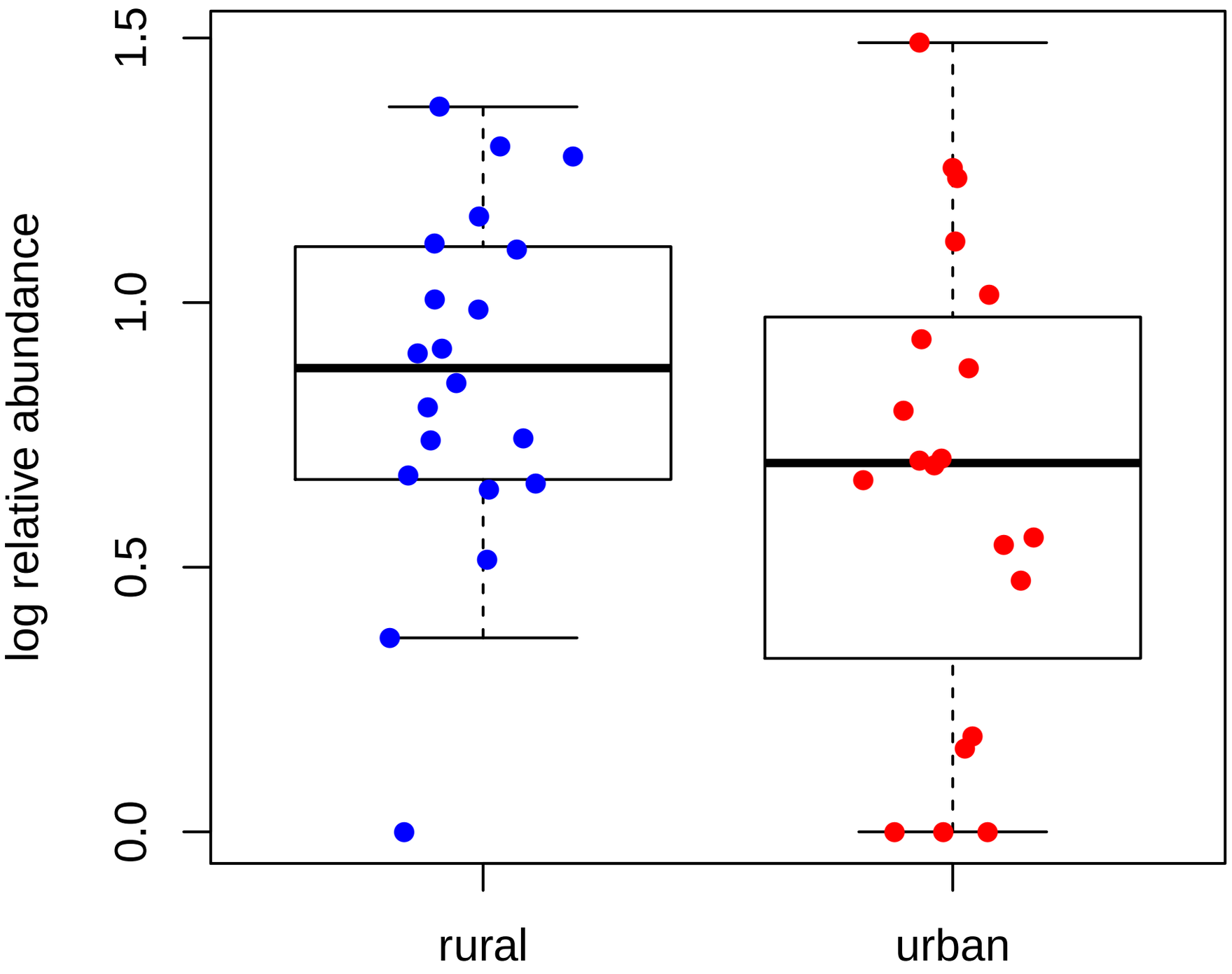

WGS species: Xenorhabdus_bovienii
pAdjRuralUrban= 0.308
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

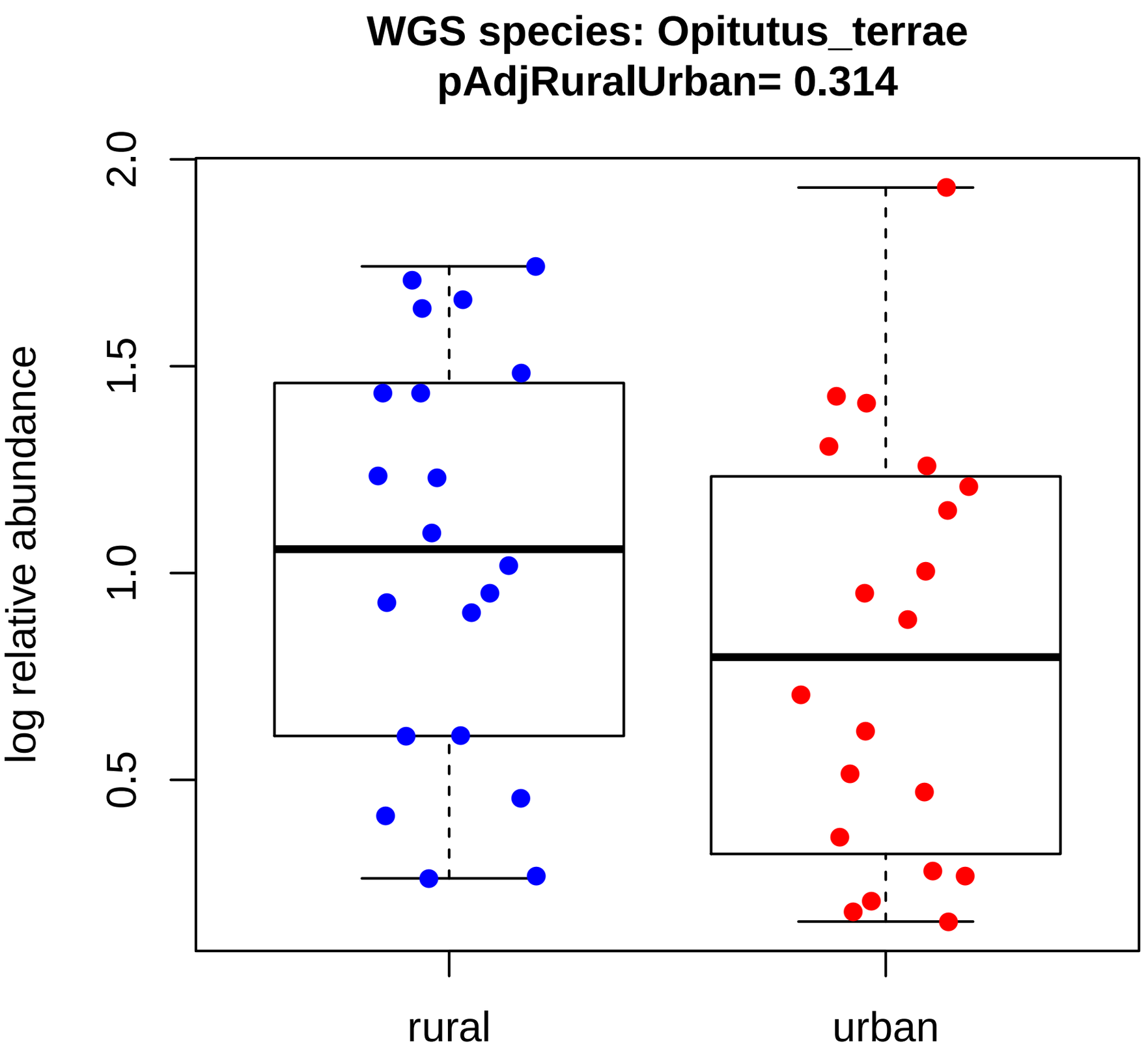

WGS species: Candidatus_Hamiltonella_defensa
pAdjRuralUrban= 0.308
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

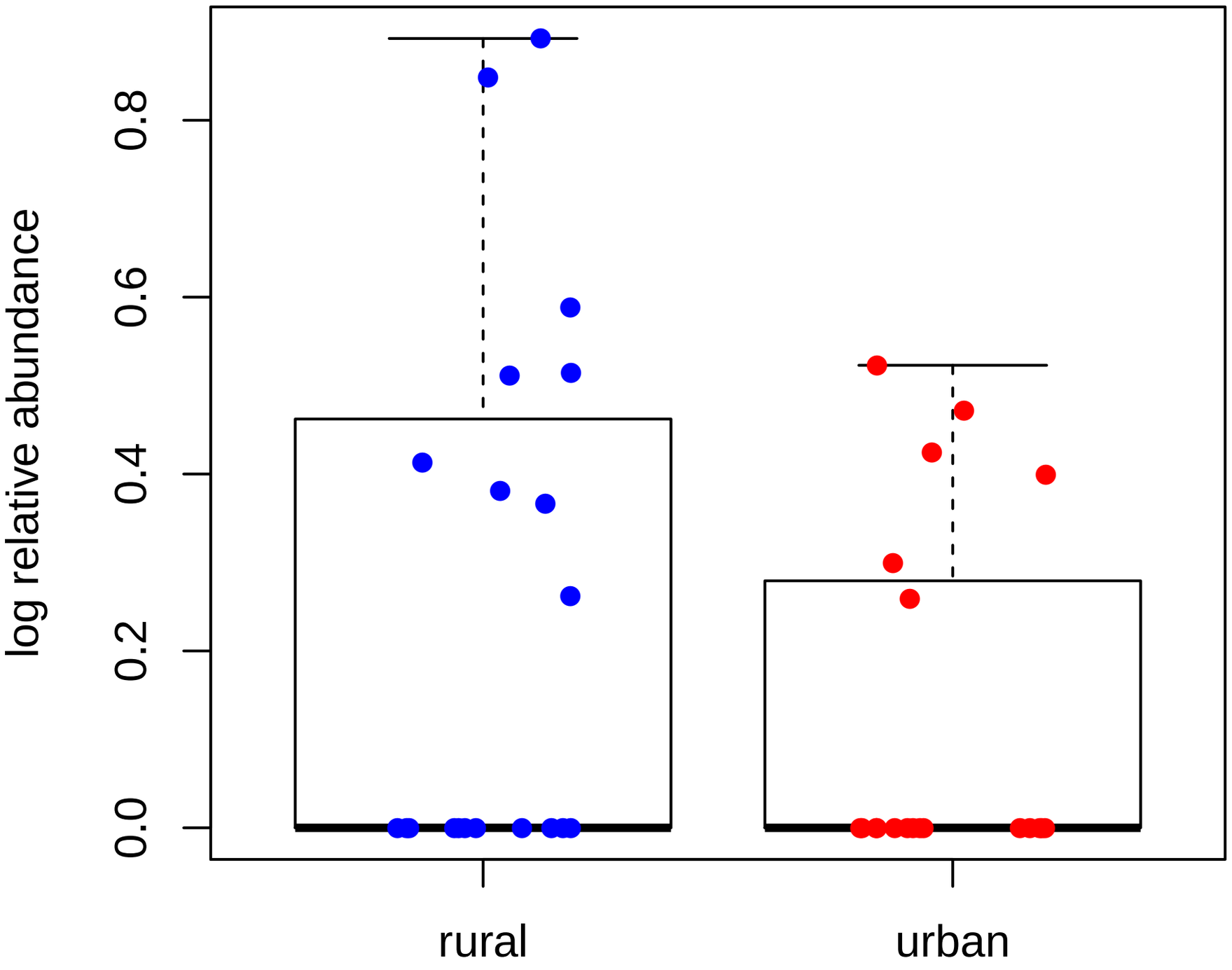

WGS species: Azospirillum_lipoferum
pAdjRuralUrban= 0.308
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

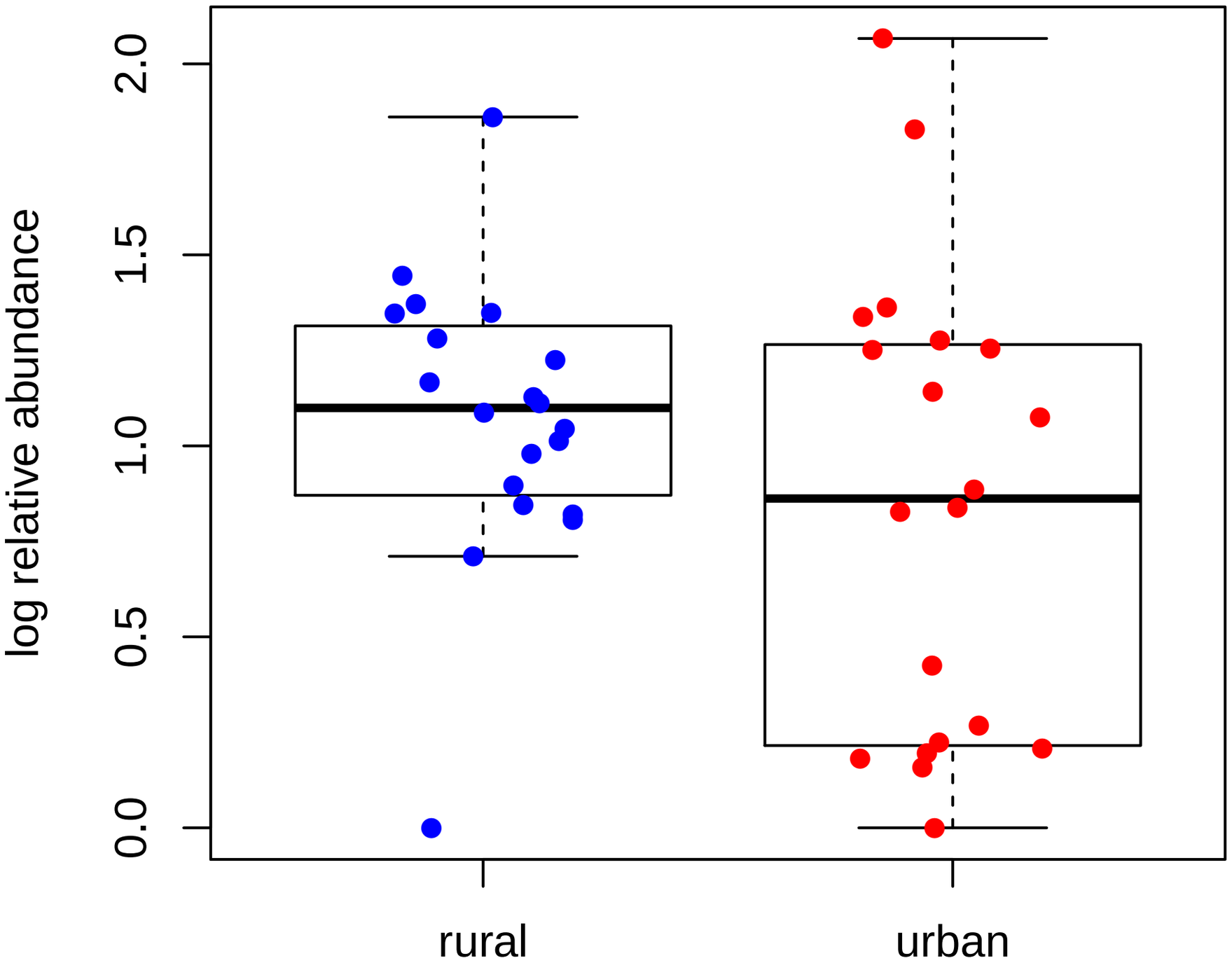

WGS species: Rhodococcus_erythropolis
pAdjRuralUrban= 0.309
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

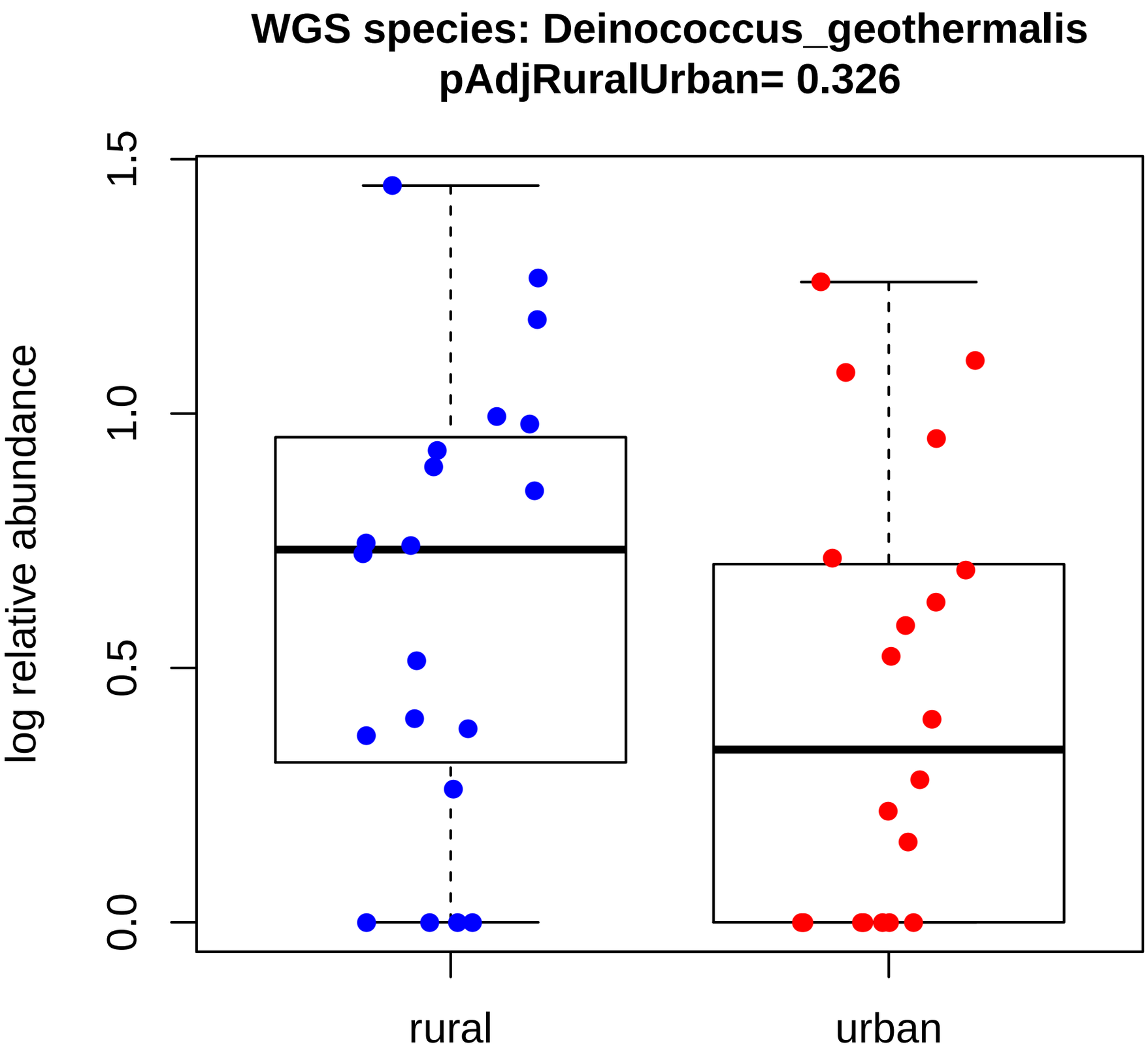

WGS species: Deinococcus_maricopensis
pAdjRuralUrban= 0.312
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

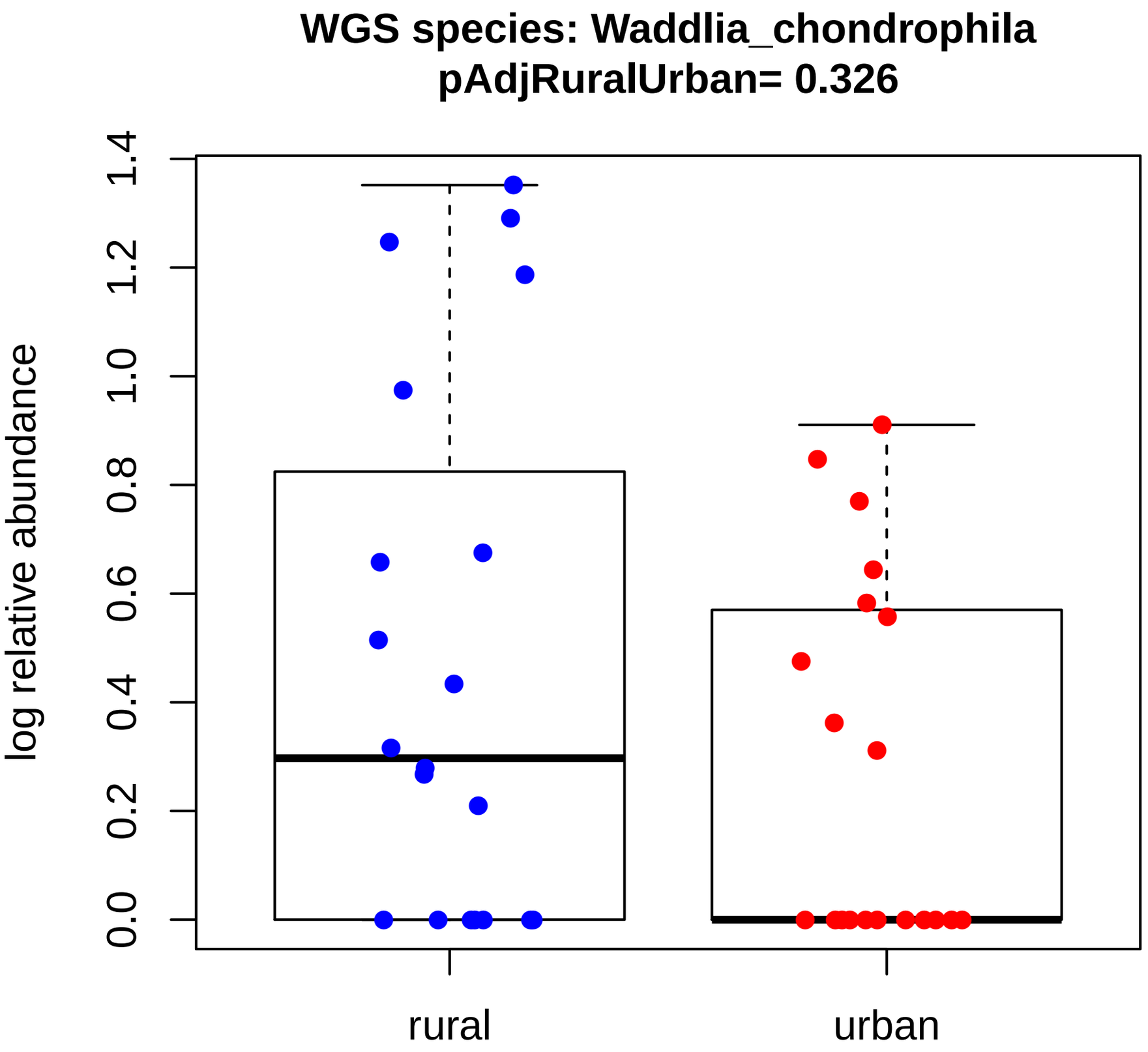

WGS species: Acholeplasma_palmae
pAdjRuralUrban= 0.312
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

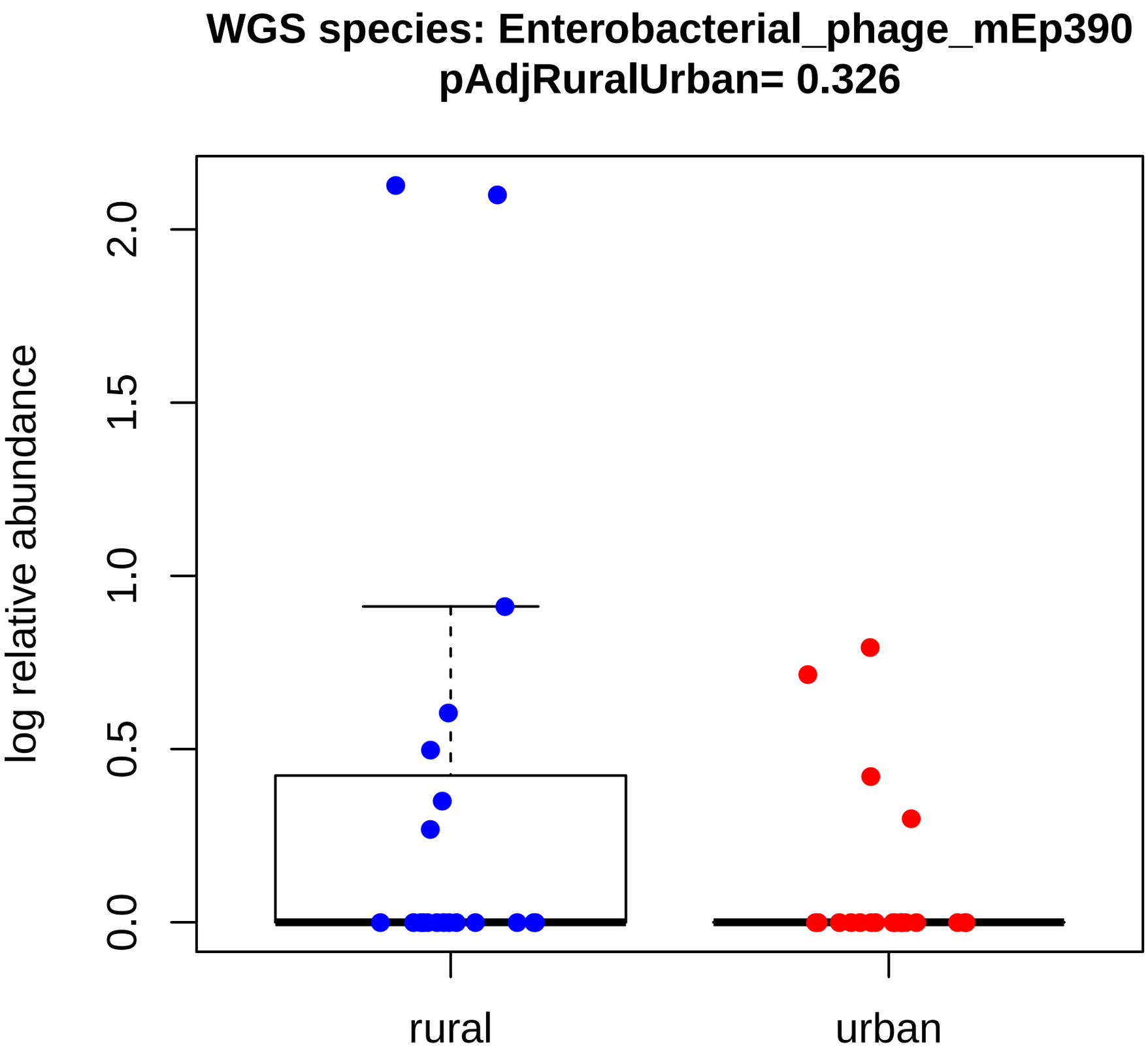

WGS species: Opitutus_terrae
pAdjRuralUrban= 0.314
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

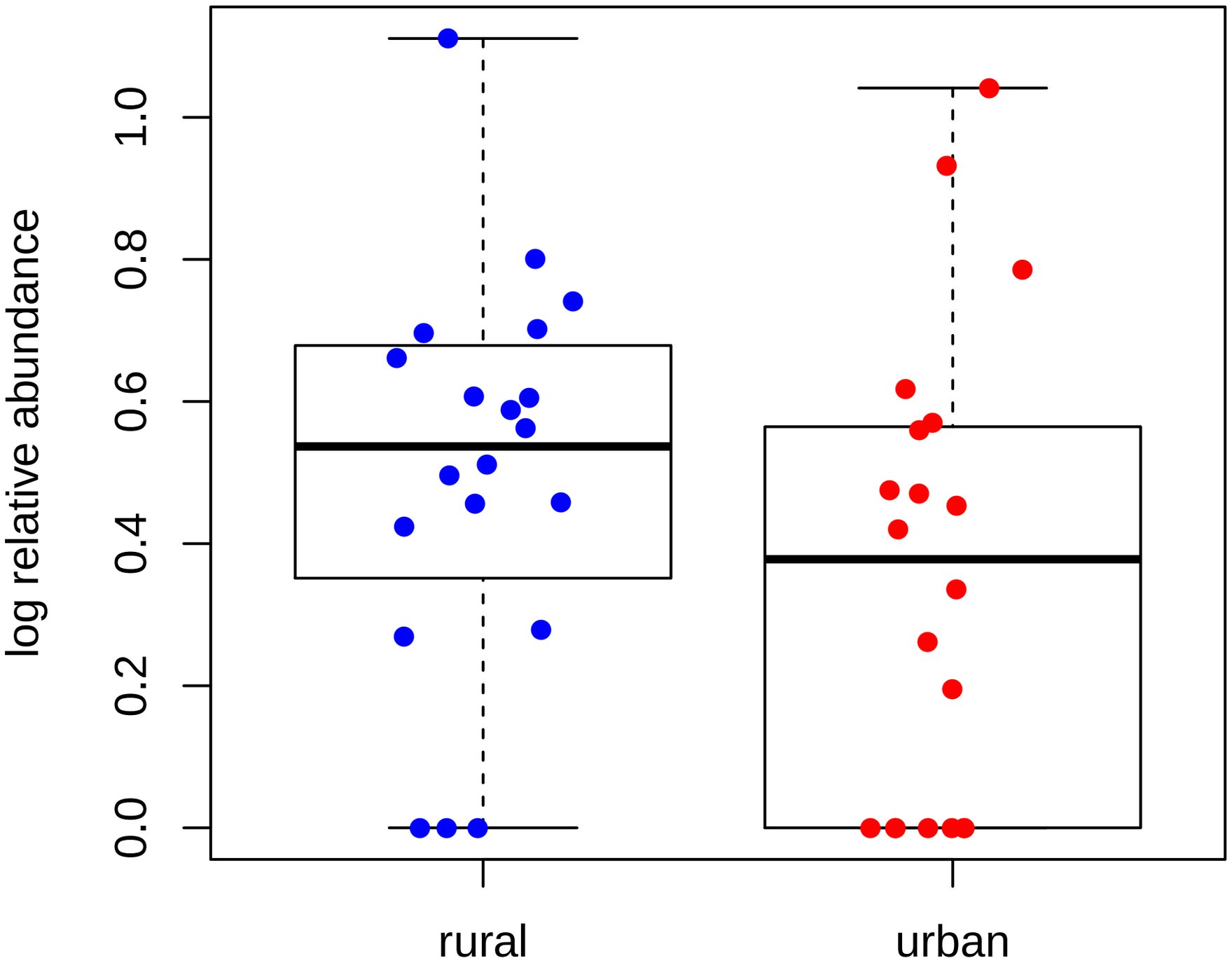

WGS species: Burkholderia_sp._CCGE1001
pAdjRuralUrban= 0.321
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

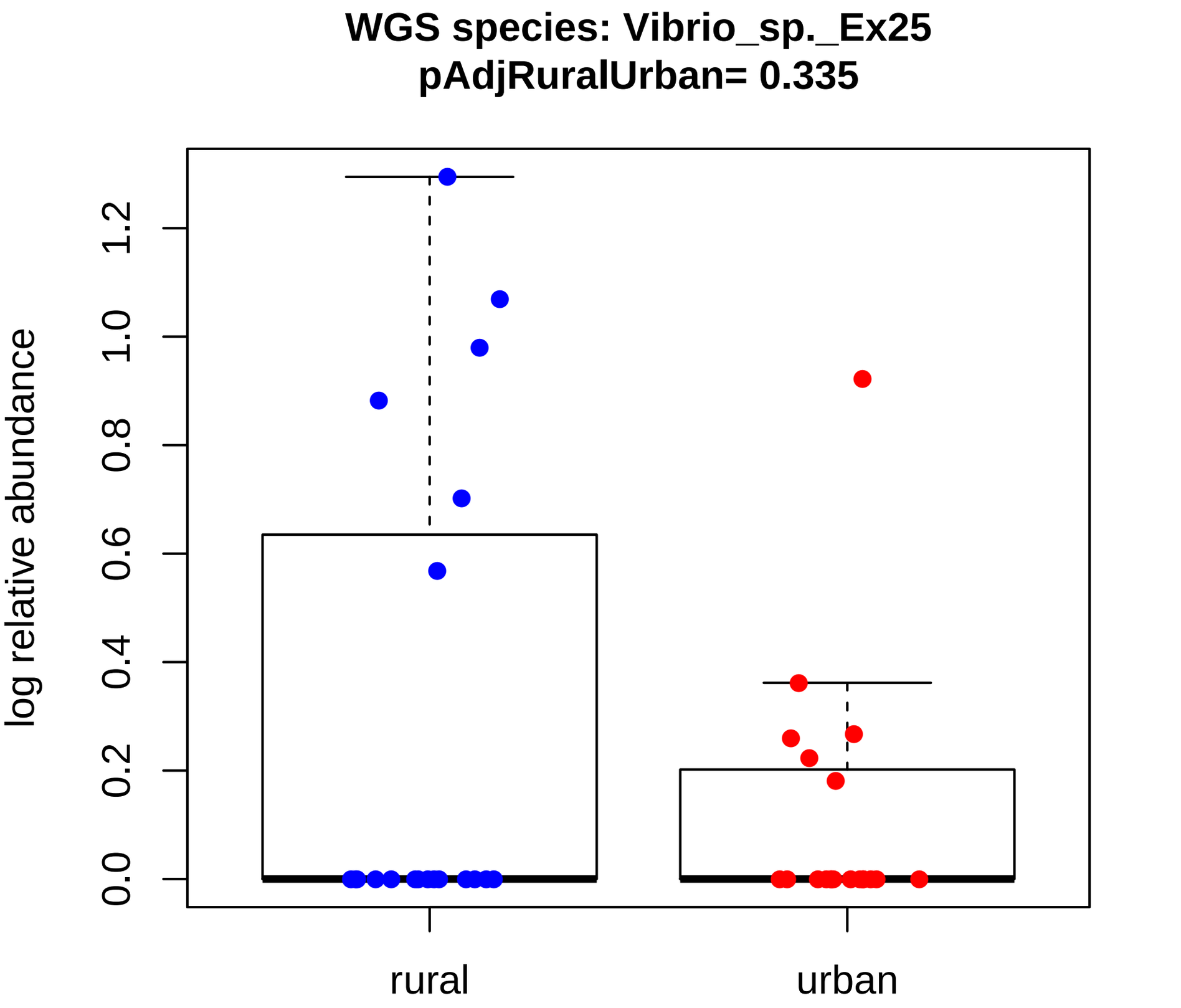

WGS species: Thauera_sp._MZ1T
pAdjRuralUrban= 0.326
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

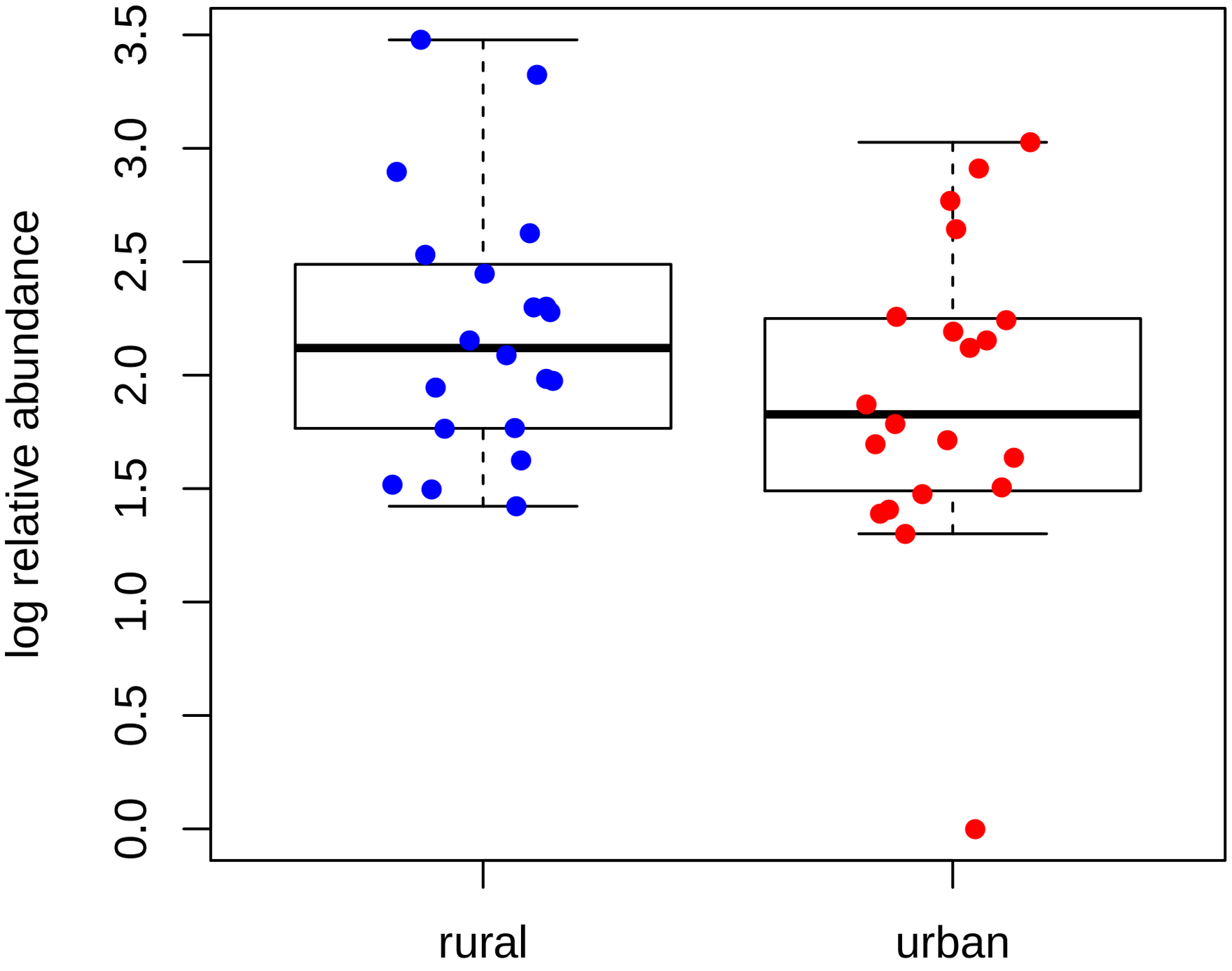

WGS species: Deinococcus_geothermalis
pAdjRuralUrban= 0.326
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

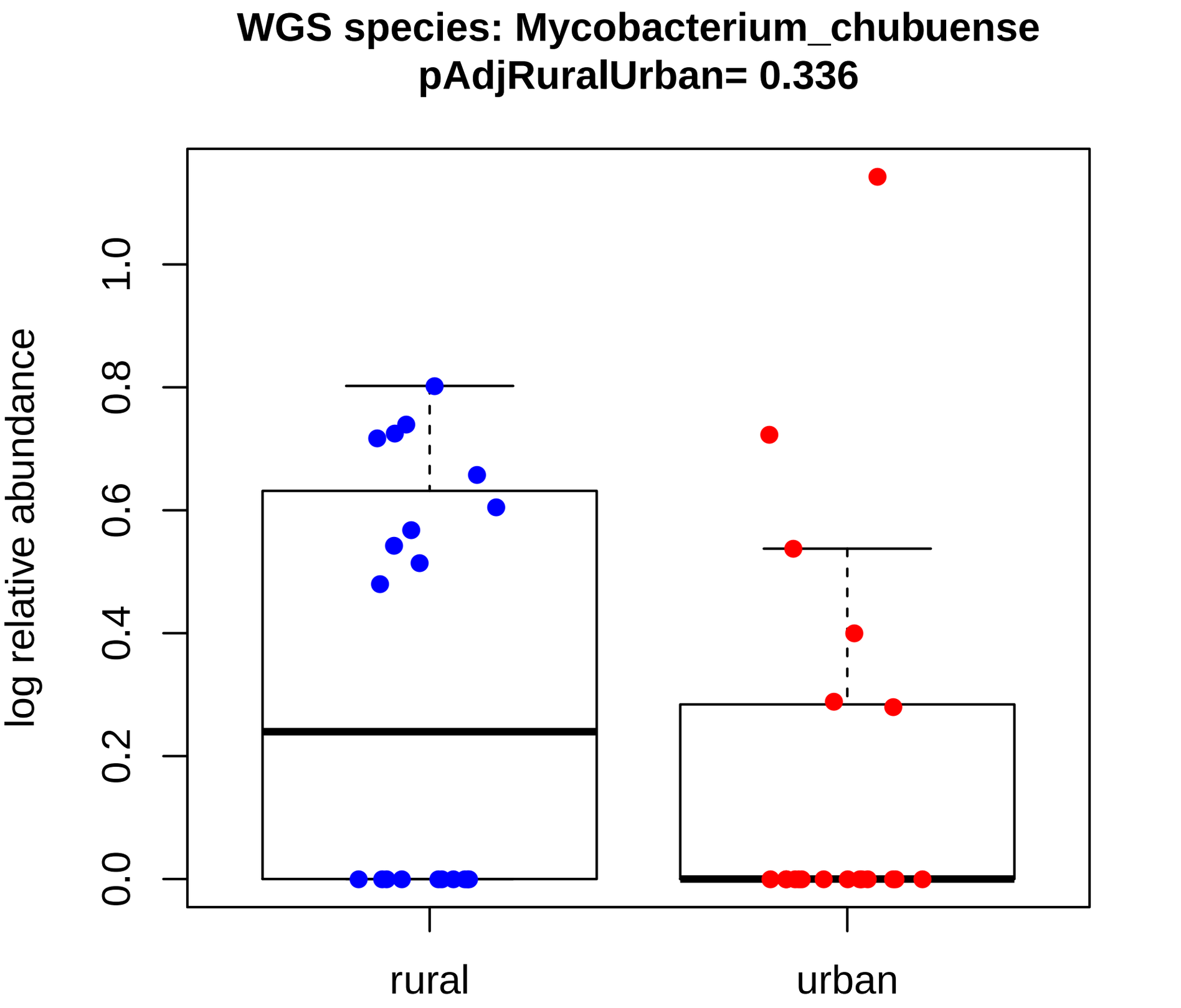

WGS species: Waddlia_chondrophila
pAdjRuralUrban= 0.326
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

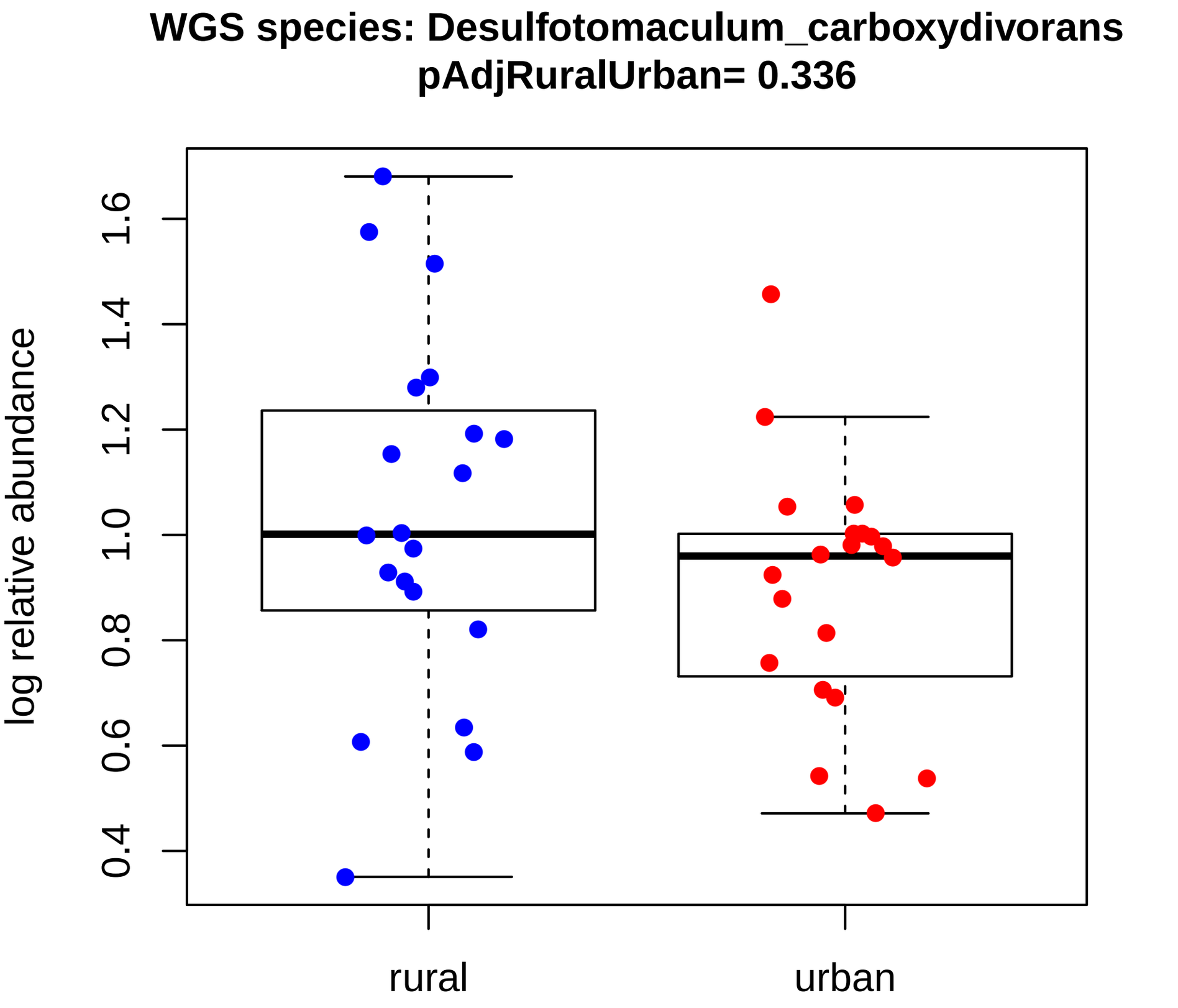

WGS species: Enterobacterial_phage_mEp390
pAdjRuralUrban= 0.326
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

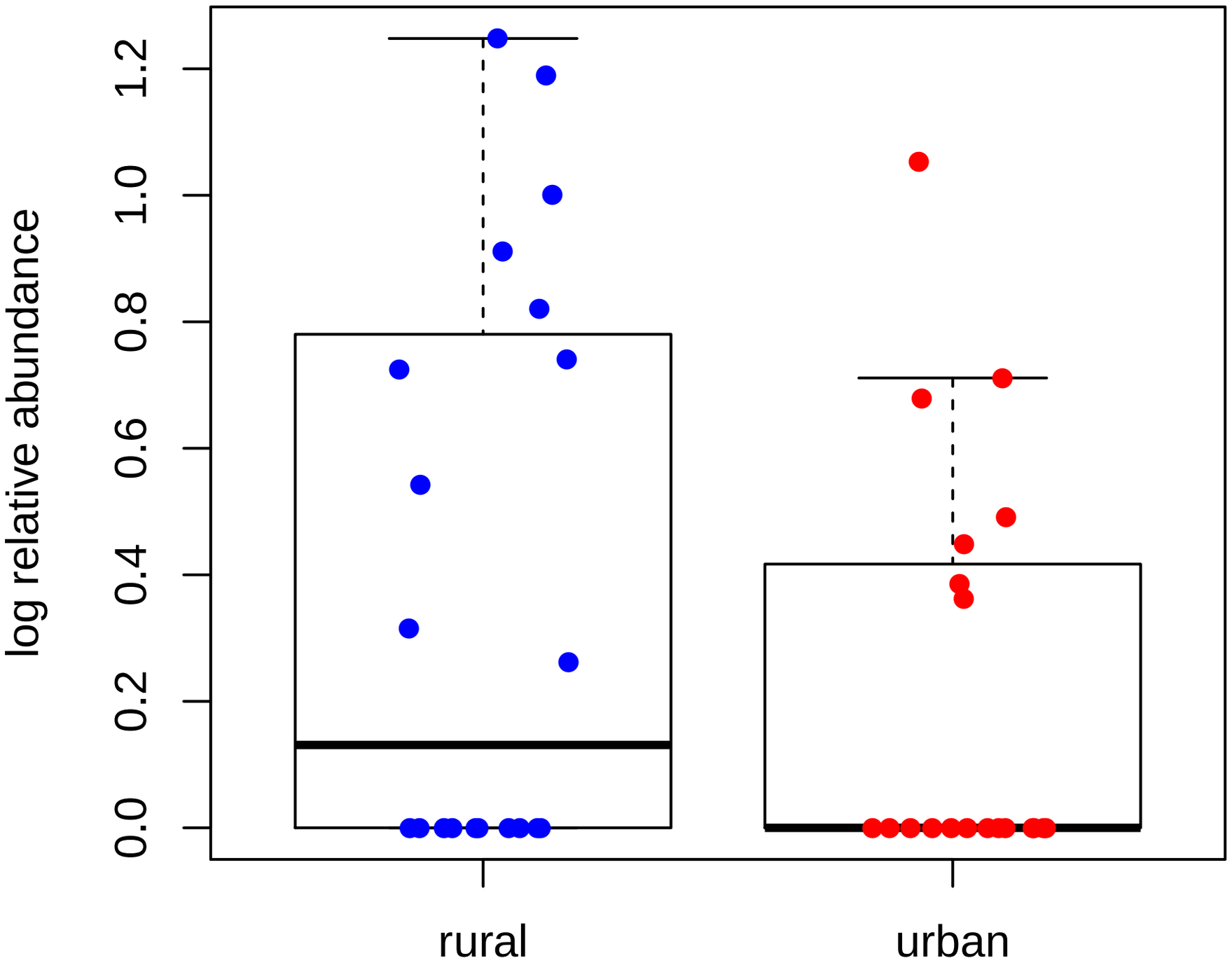

WGS species: Arcanobacterium_haemolyticum
pAdjRuralUrban= 0.335
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

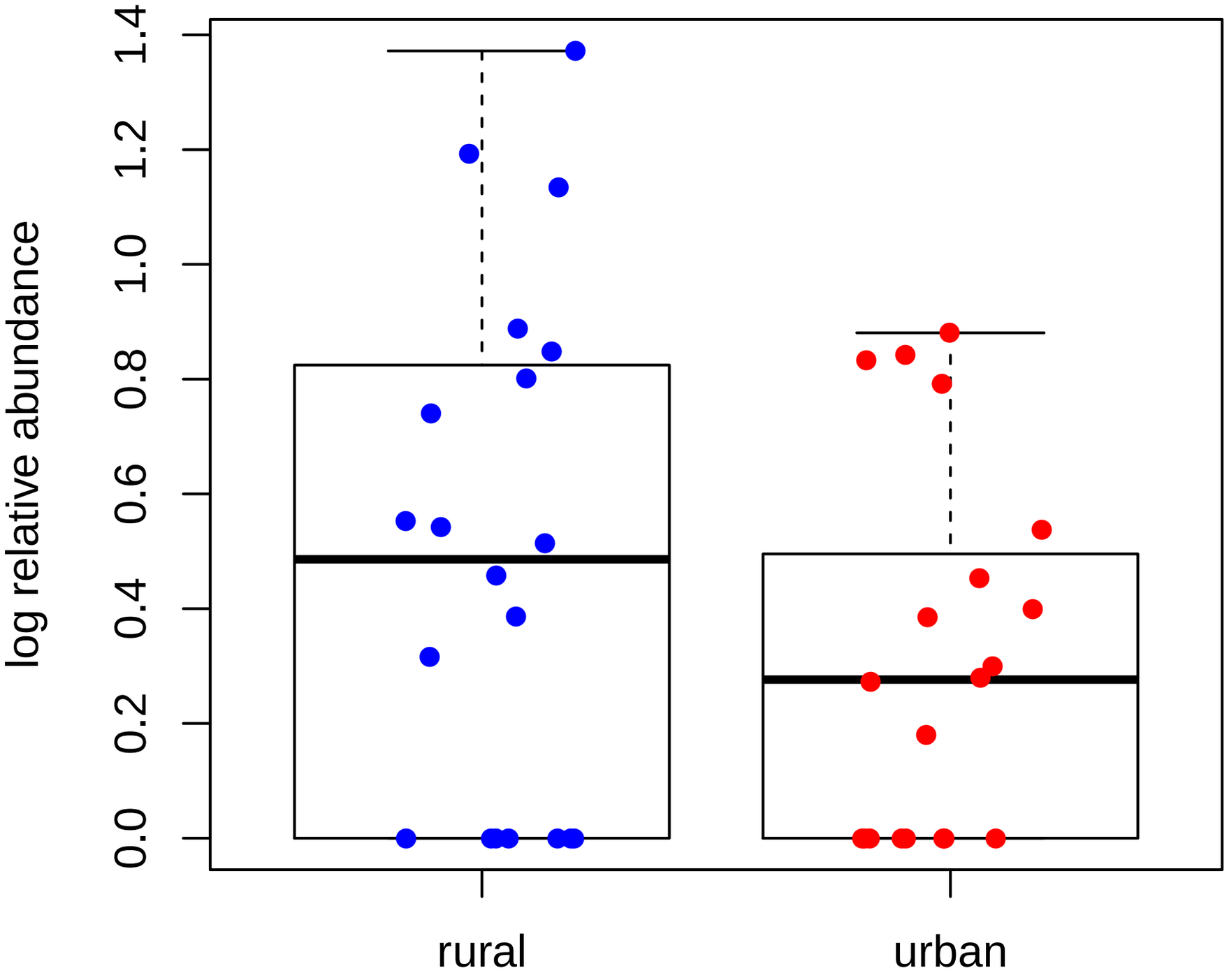

WGS species: Vibrio_sp._Ex25
pAdjRuralUrban= 0.335
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

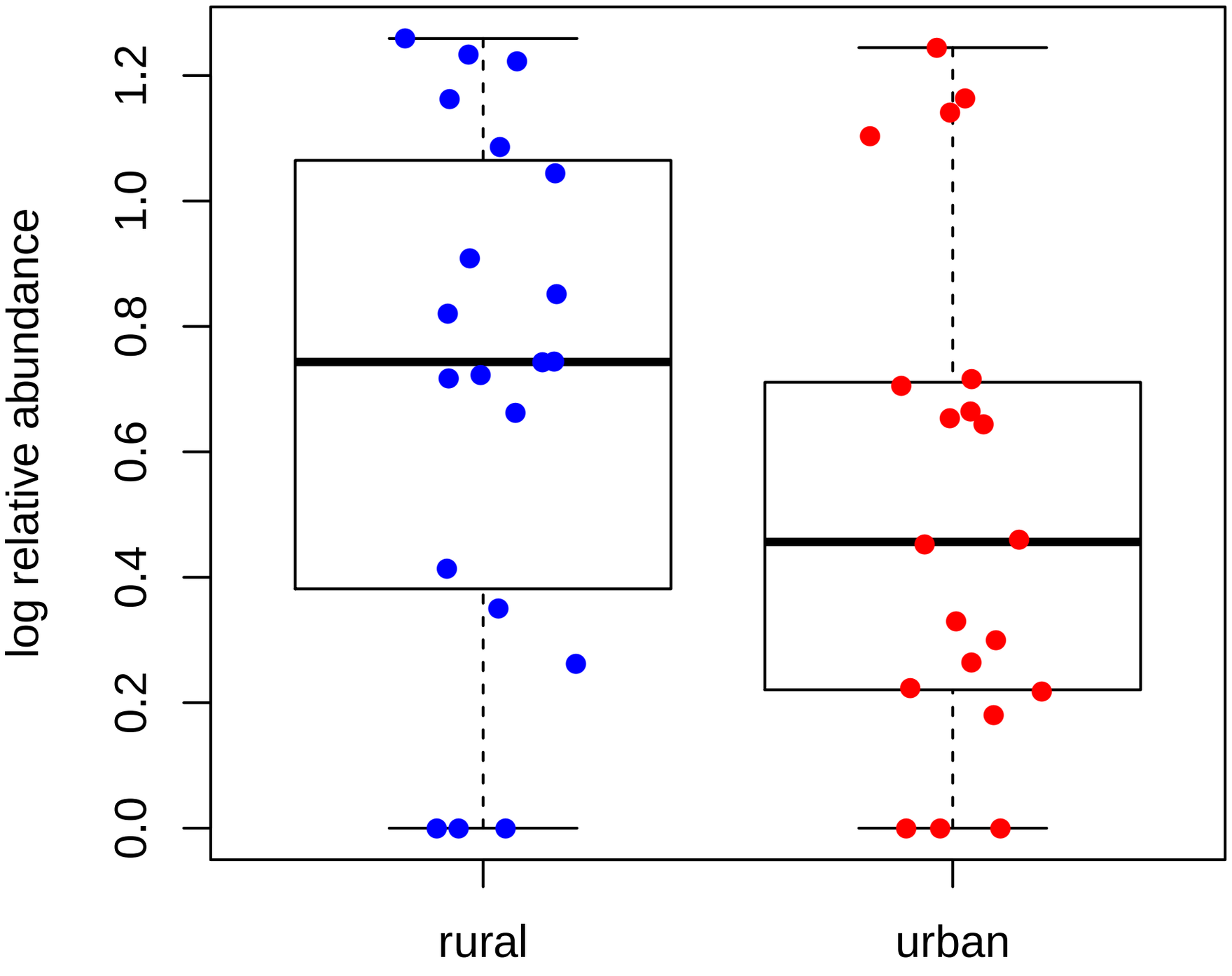

WGS species: Riemerella_anatipestifer
pAdjRuralUrban= 0.336
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

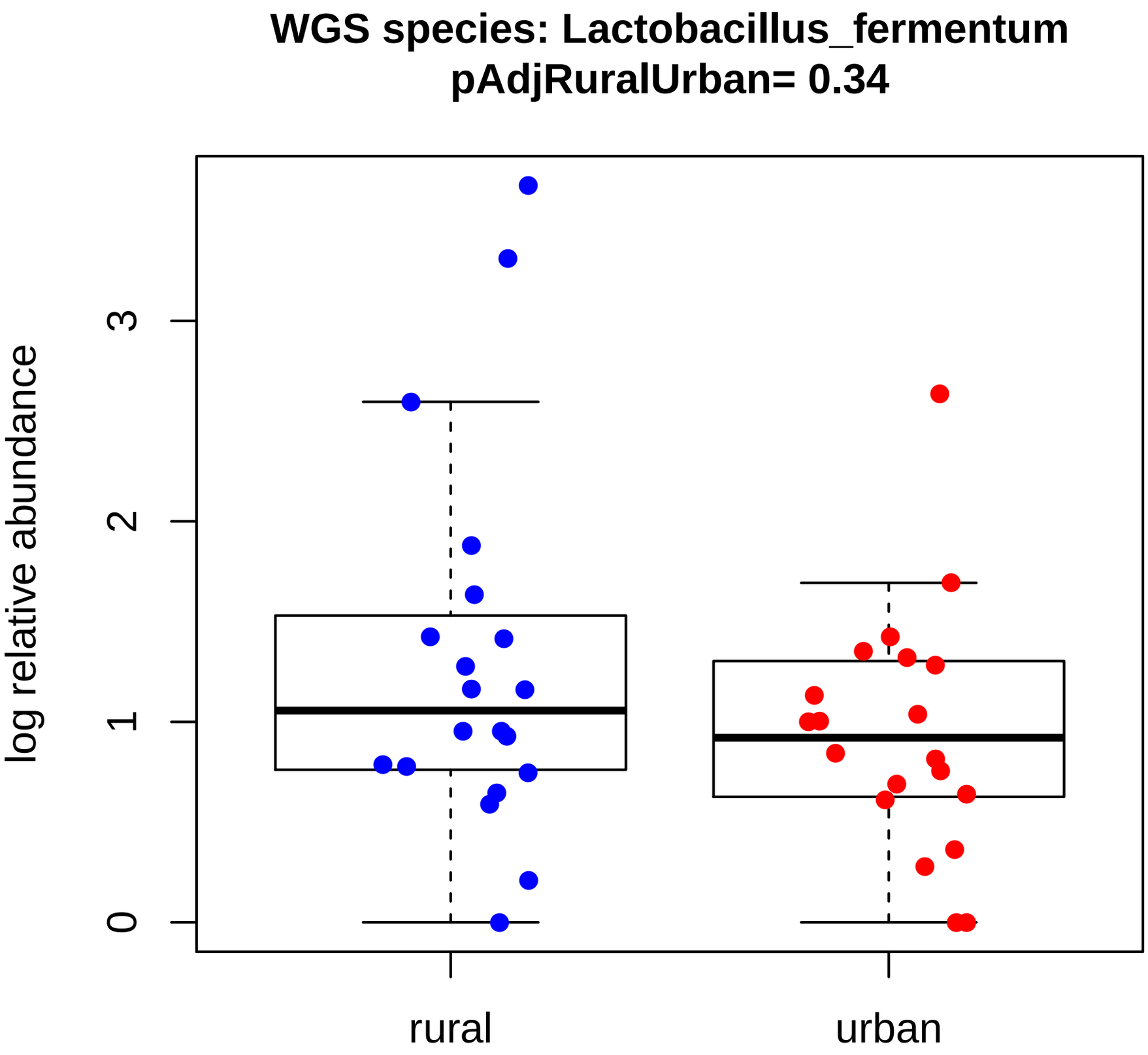

WGS species: Mycobacterium_chubuense
pAdjRuralUrban= 0.336
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

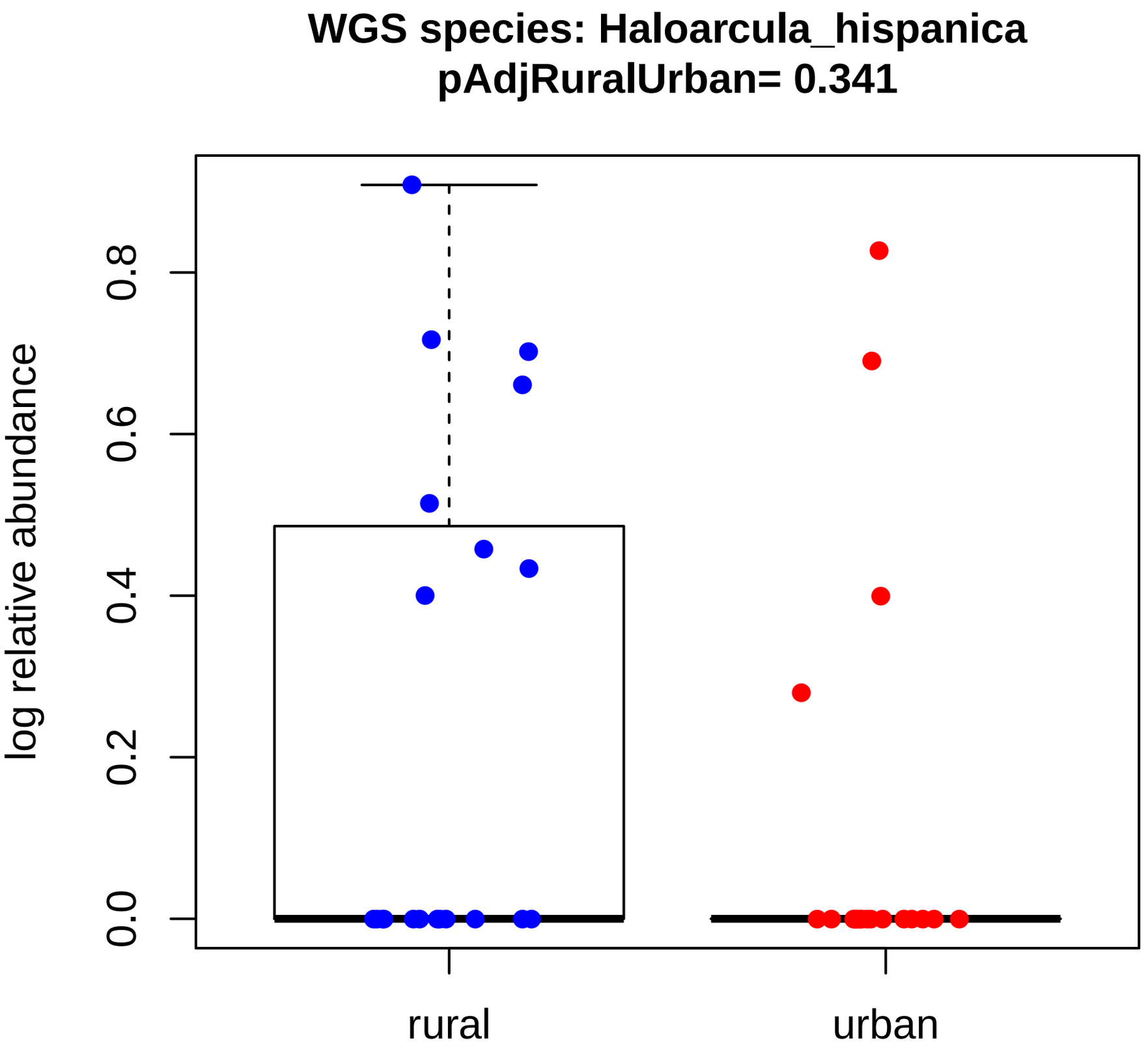

WGS species: Desulfotomaculum_carboxydivorans
pAdjRuralUrban= 0.336
log relative abundance
0.4
0.6
0.8
1.0
1.2
1.4
1.6
rural
urban

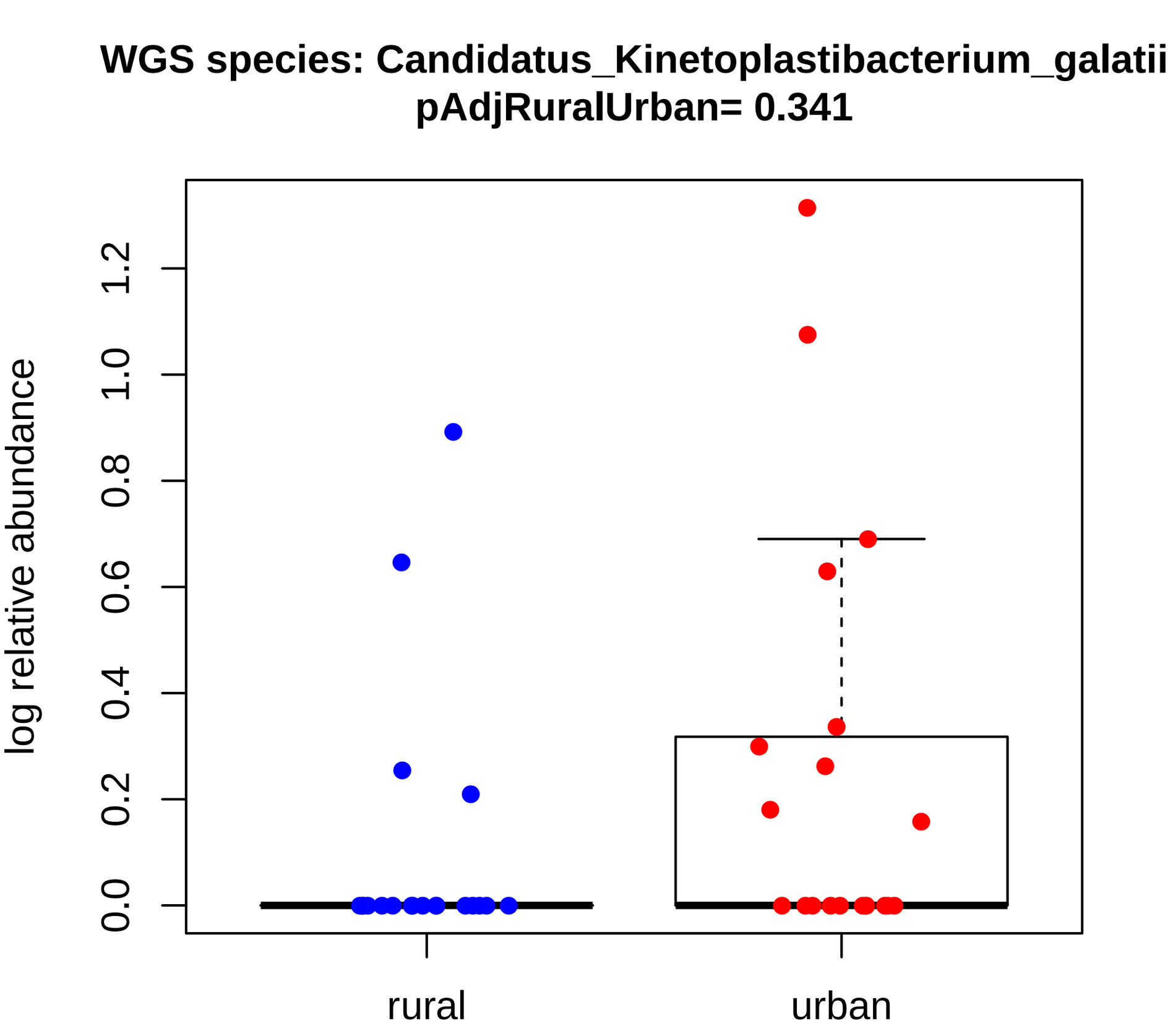

WGS species: Shewanella_piezotolerans
pAdjRuralUrban= 0.338
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

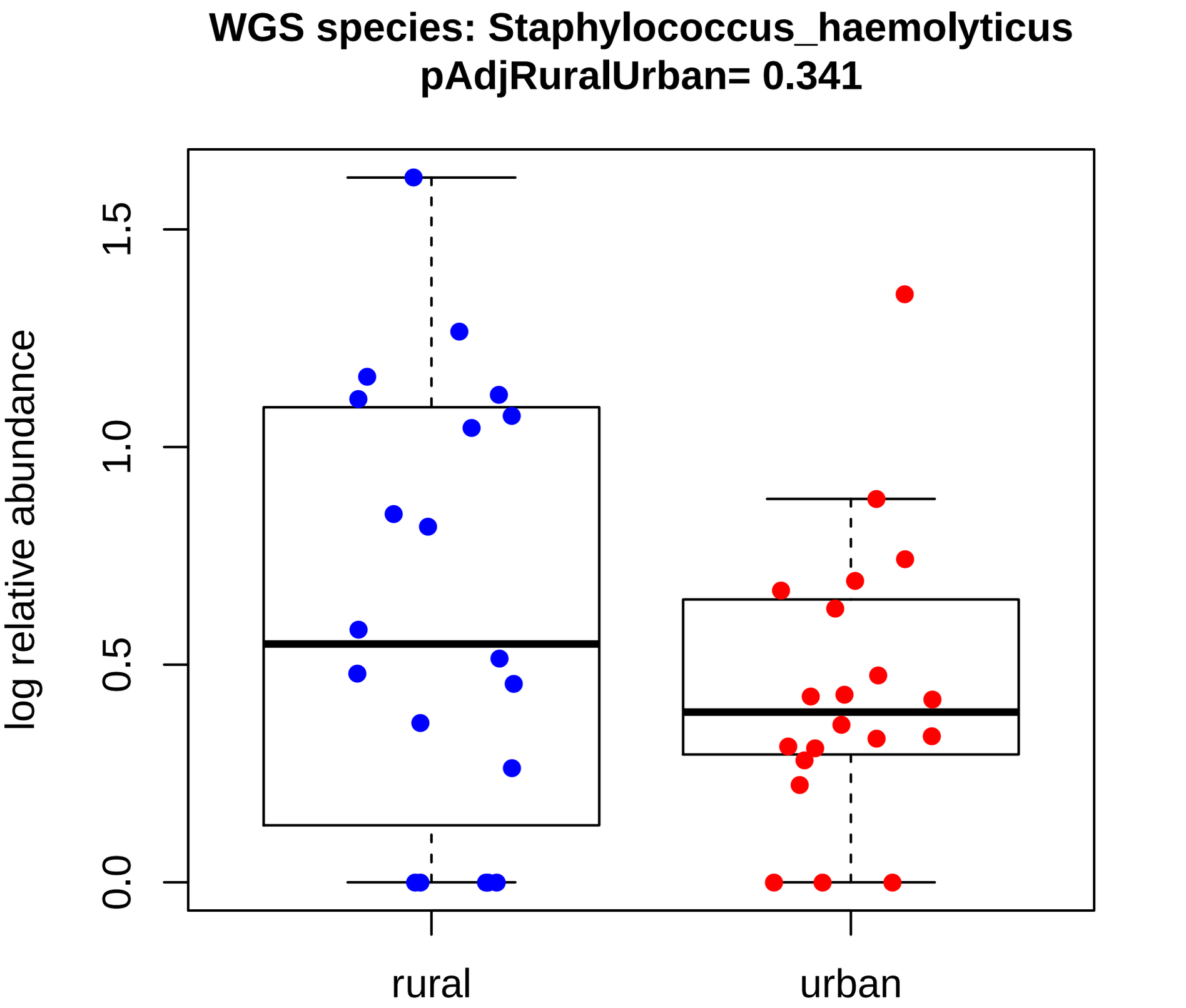

WGS species: Aminobacterium_colombiense
pAdjRuralUrban= 0.338
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

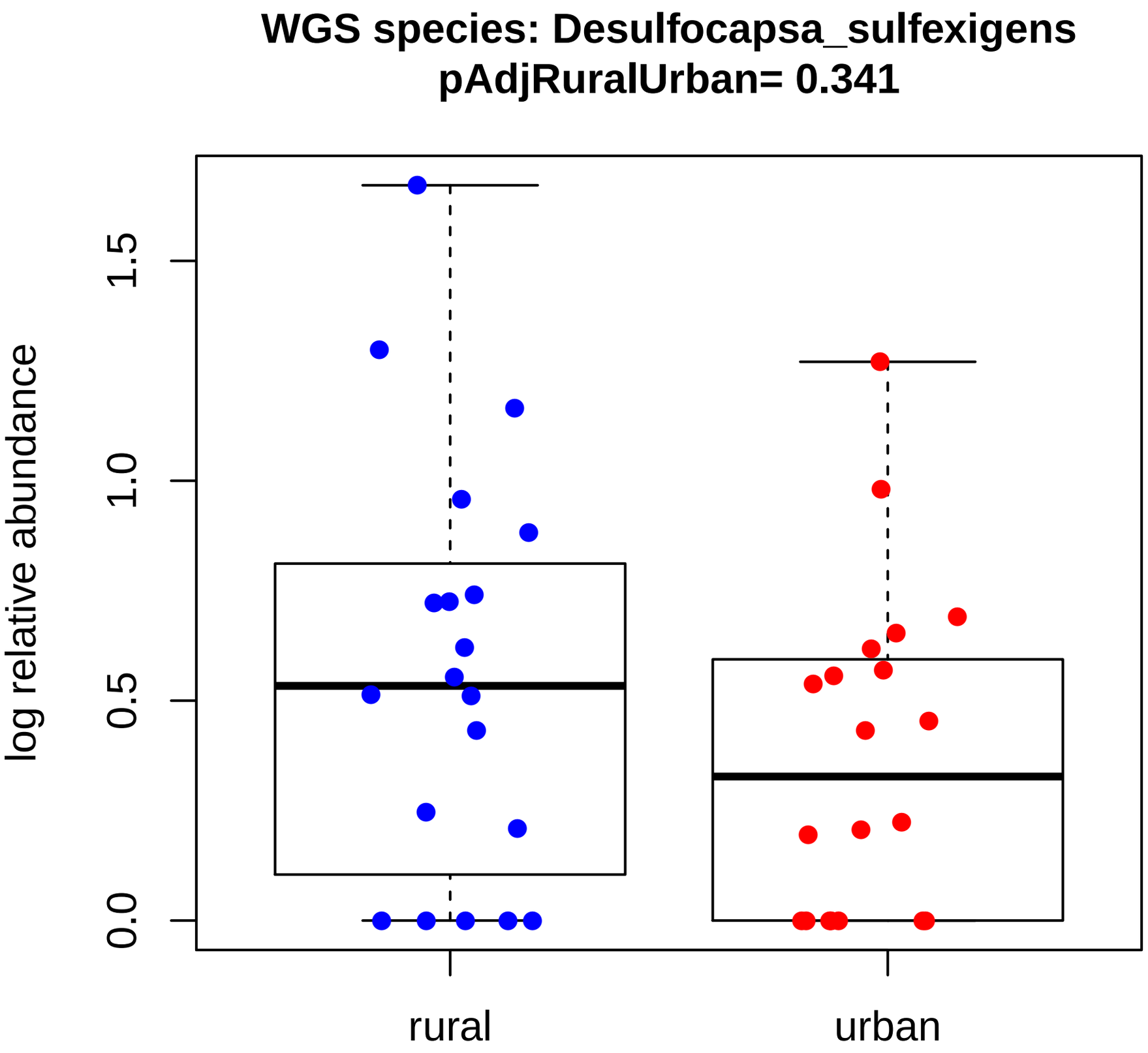

WGS species: Streptosporangium_roseum
pAdjRuralUrban= 0.339
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

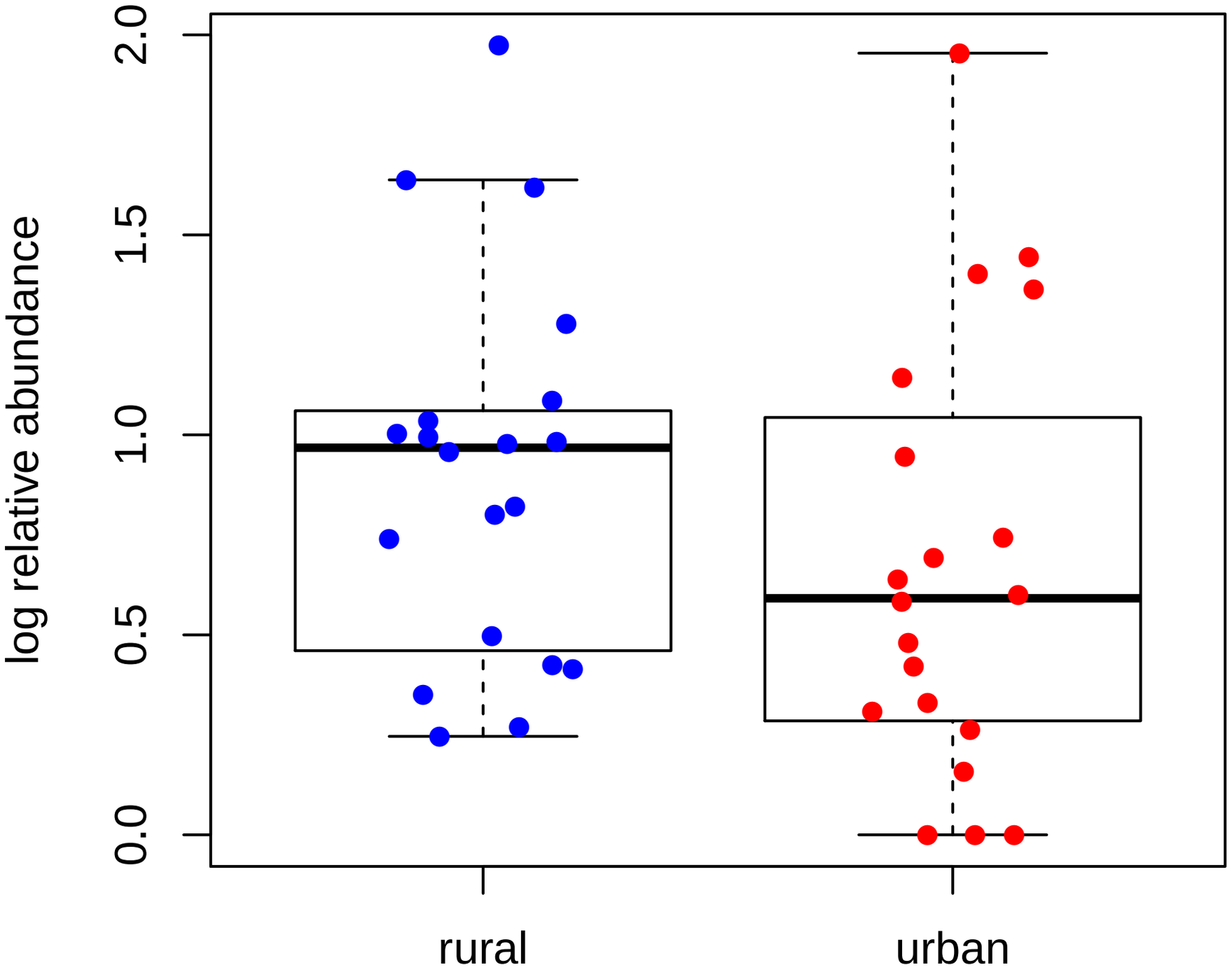

WGS species: Lactobacillus_fermentum
pAdjRuralUrban= 0.34
log relative abundance
0
1
2
3
rural
urban

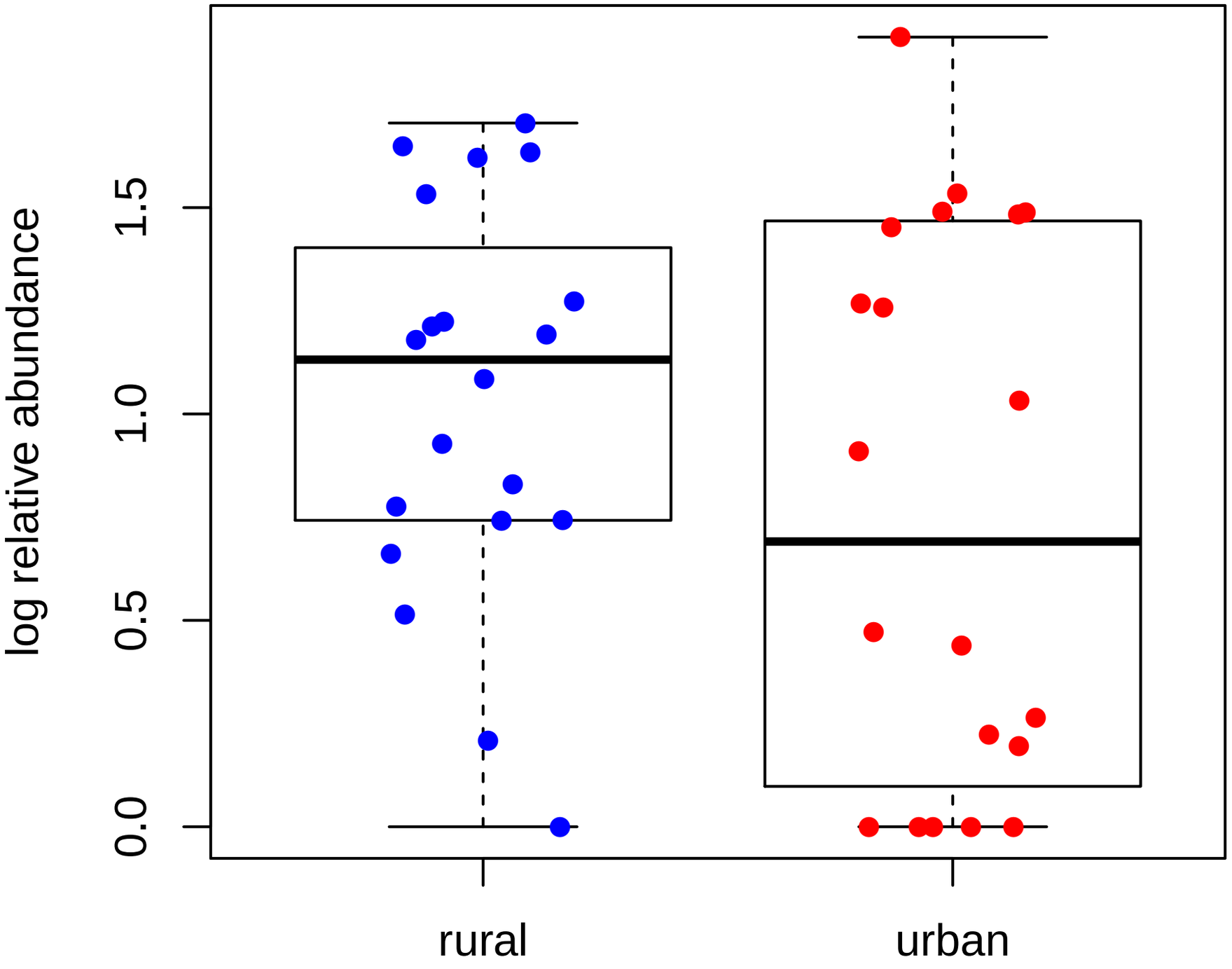

WGS species: Haloarcula_hispanica
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

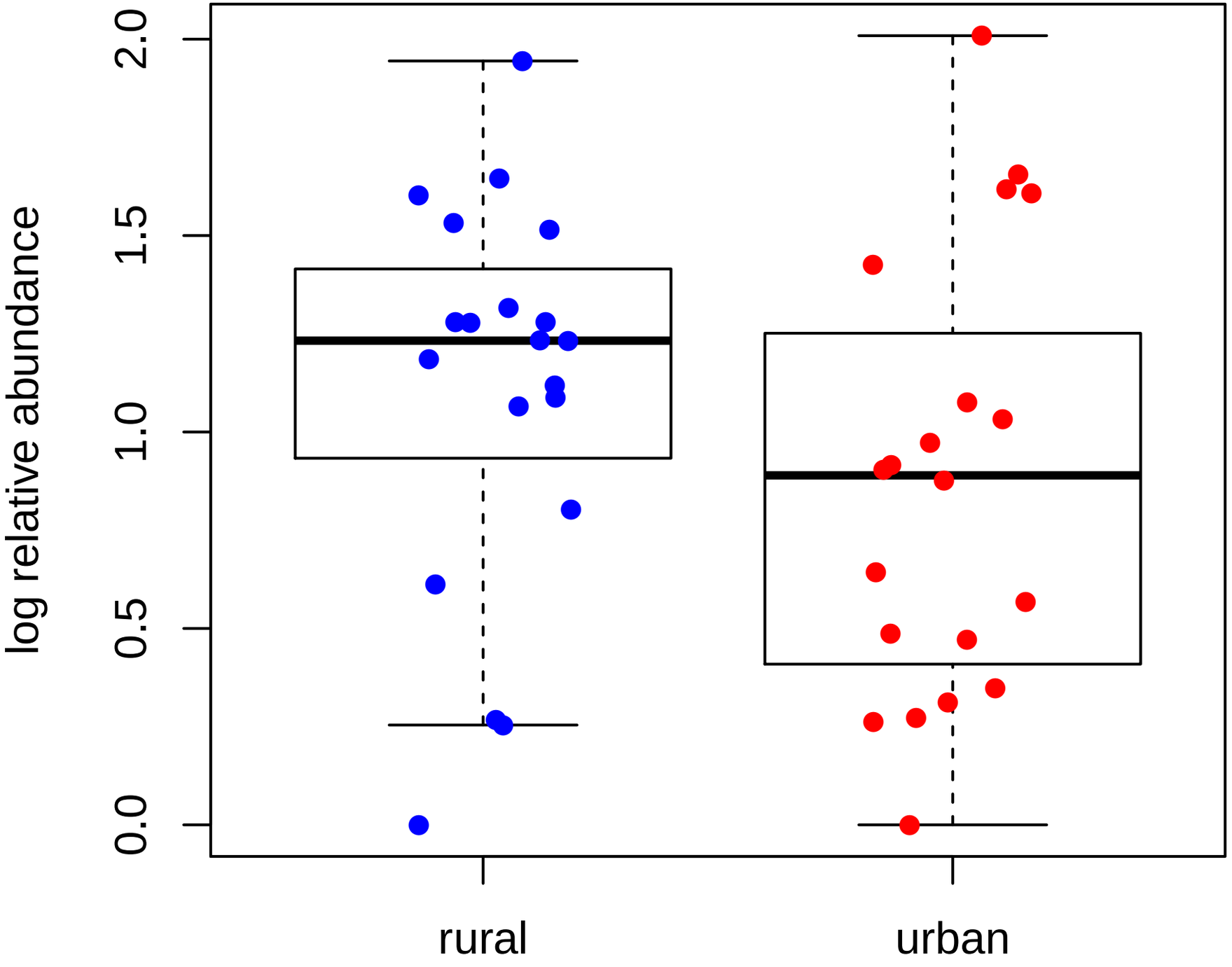

WGS species: Candidatus_Kinetoplastibacterium_galatii
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

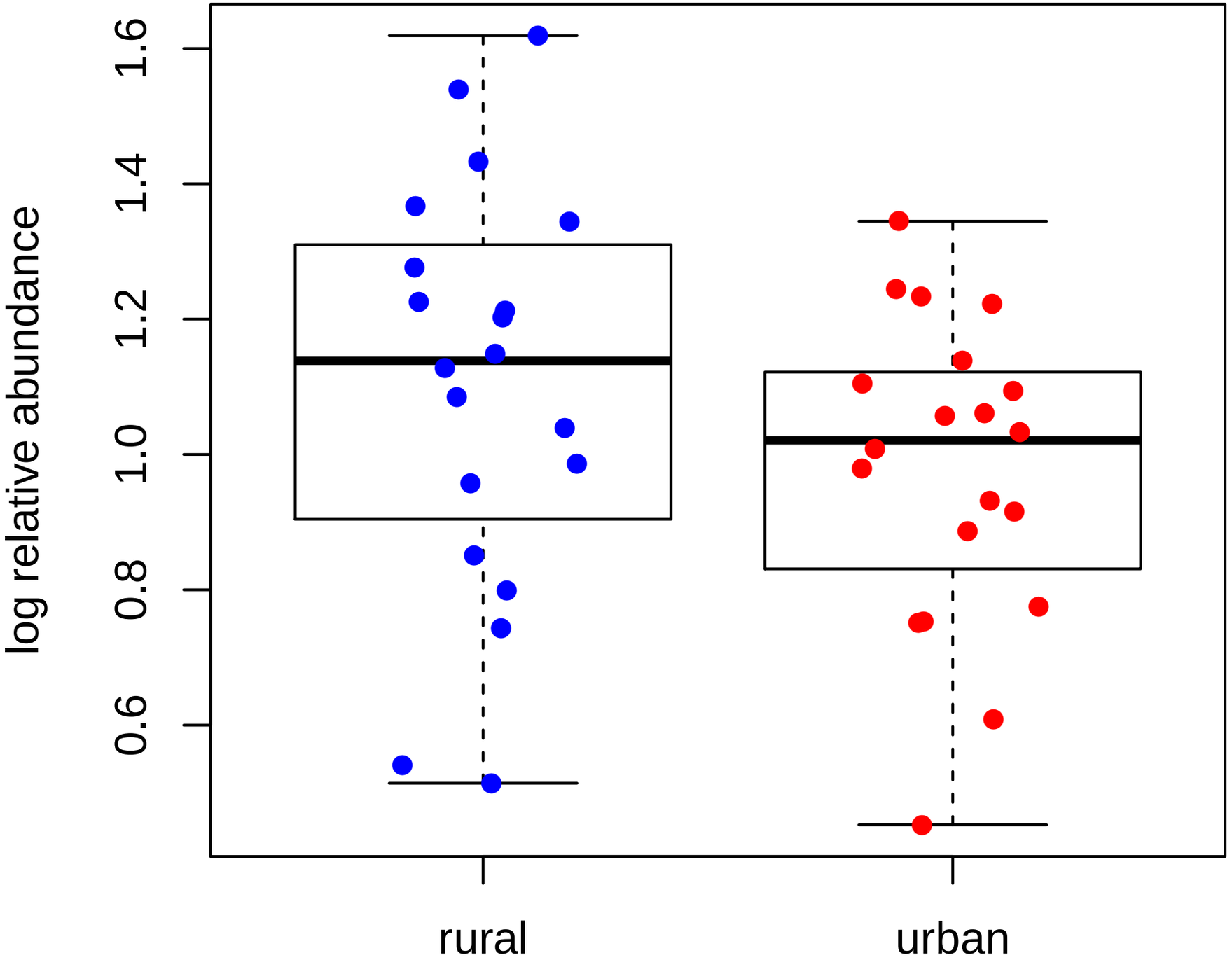

WGS species: Staphylococcus_haemolyticus
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

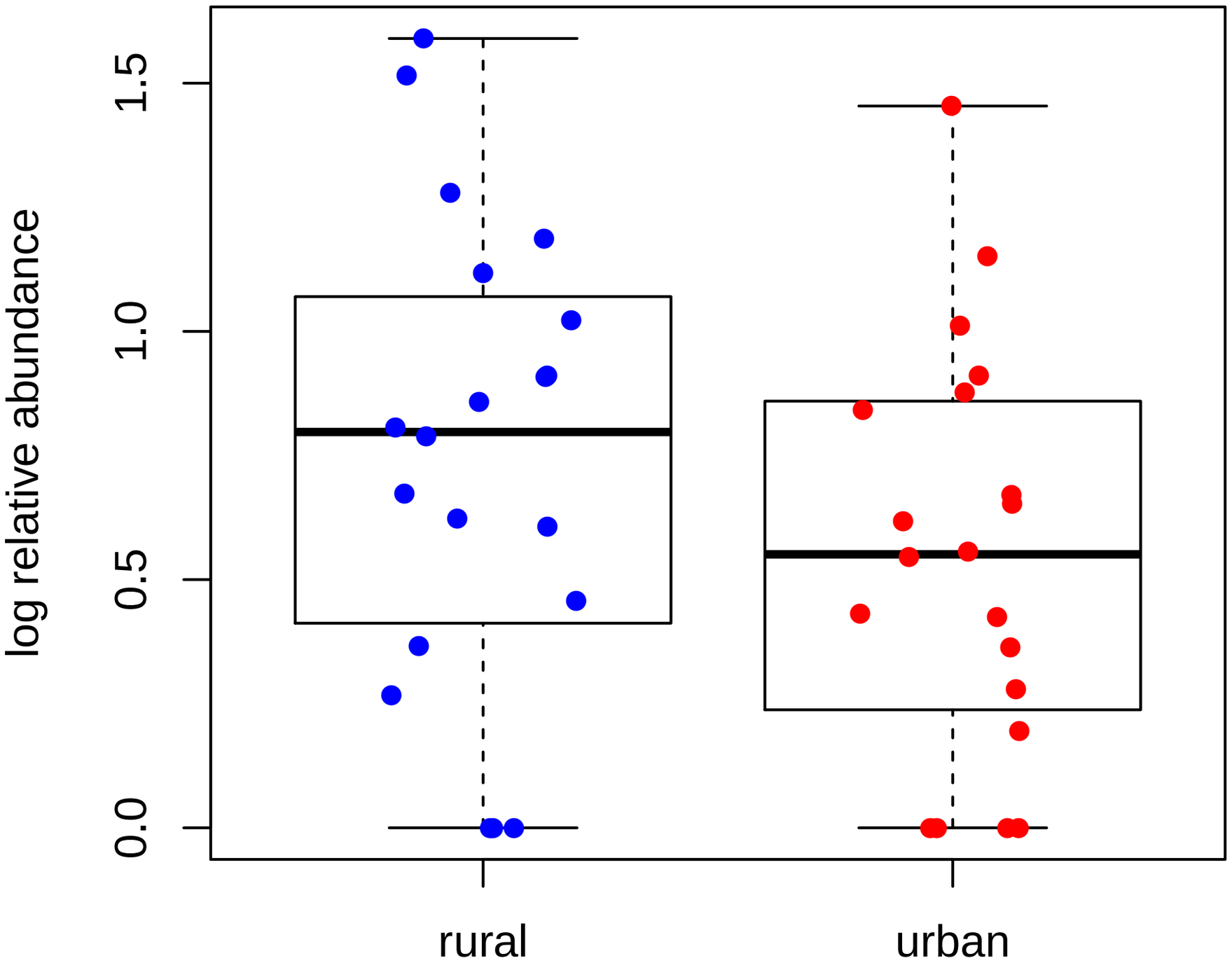

WGS species: Desulfocapsa_sulfexigens
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

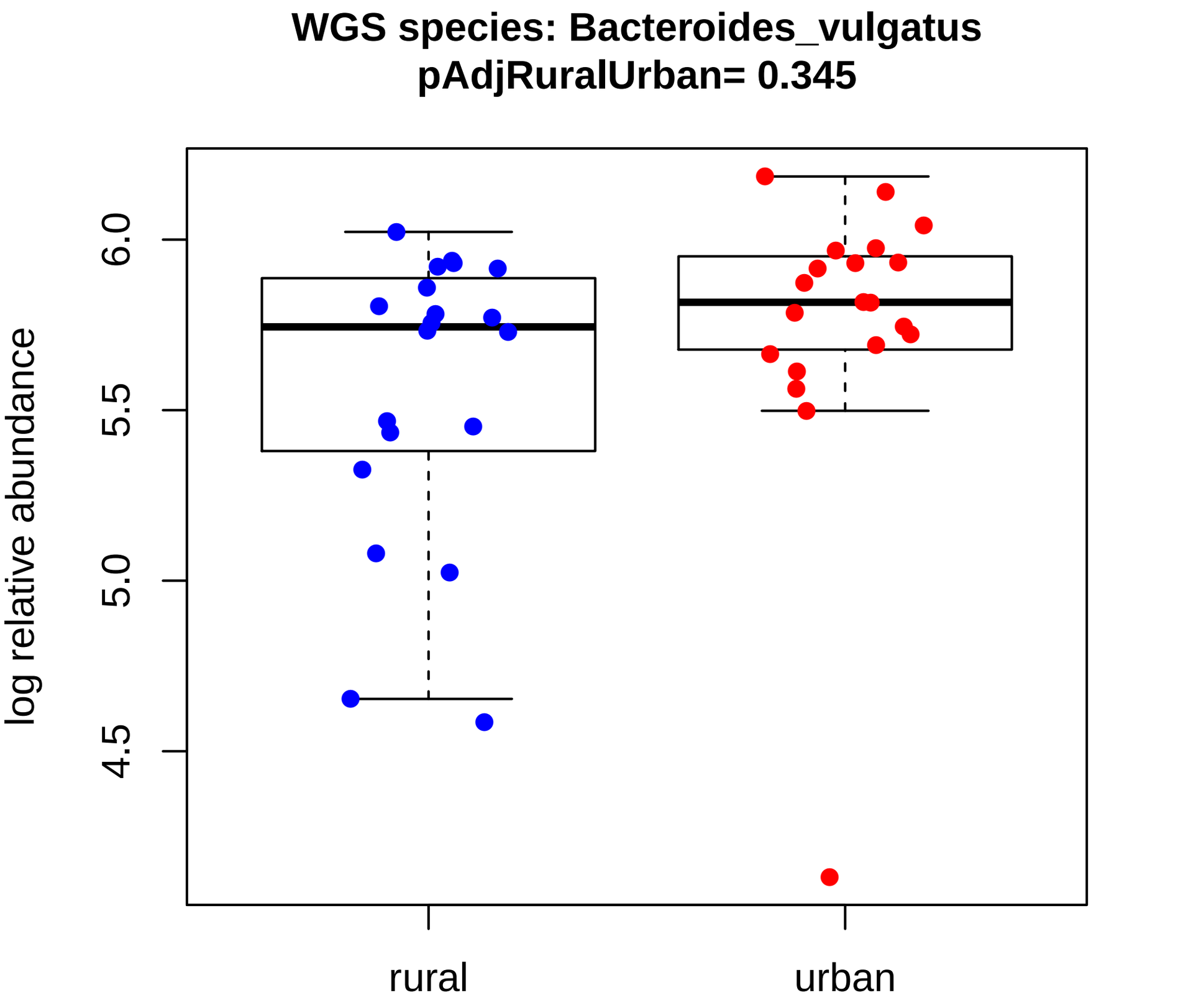

WGS species: Tistrella_mobilis
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

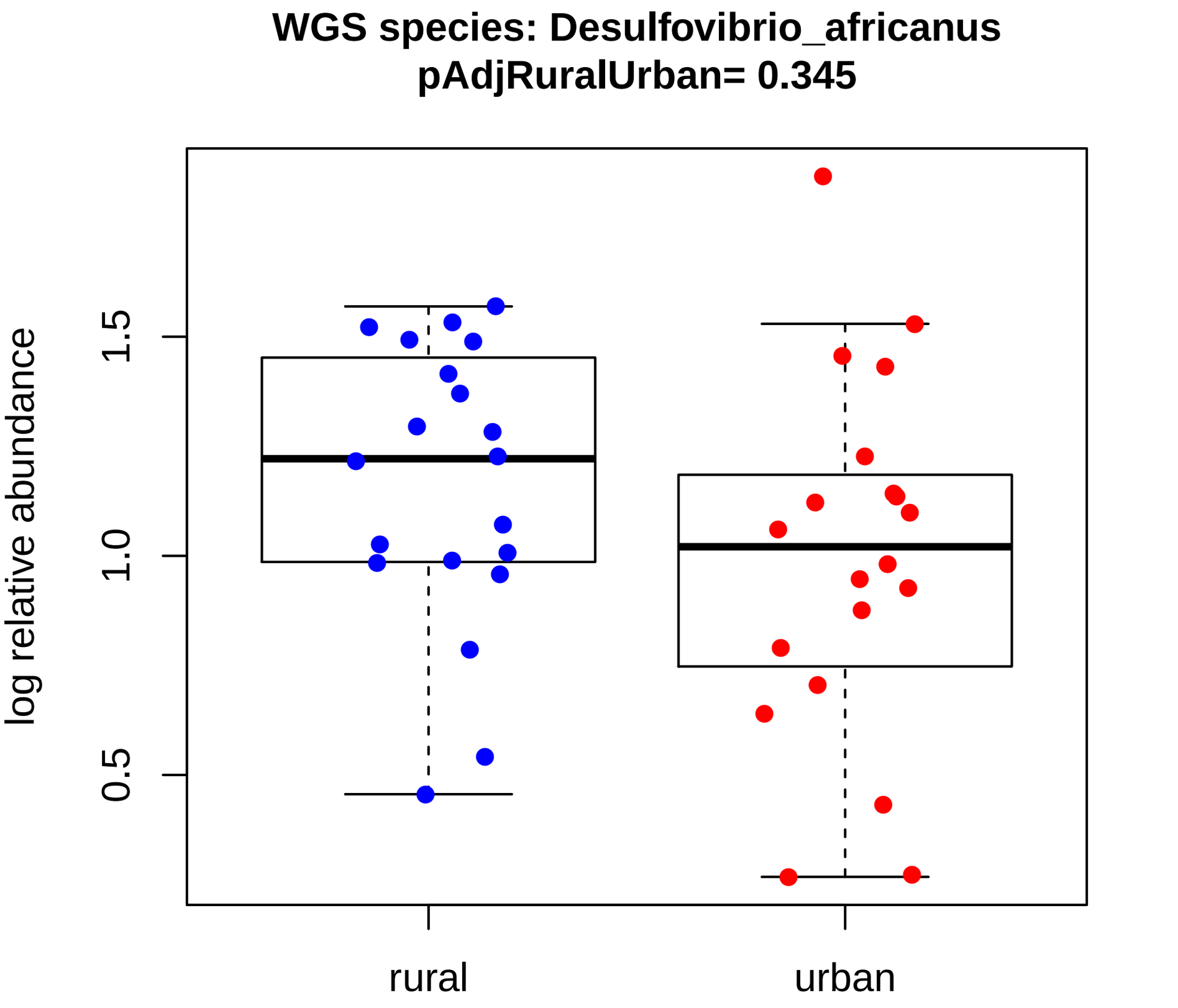

WGS species: Haemophilus_parasuis
pAdjRuralUrban= 0.341
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

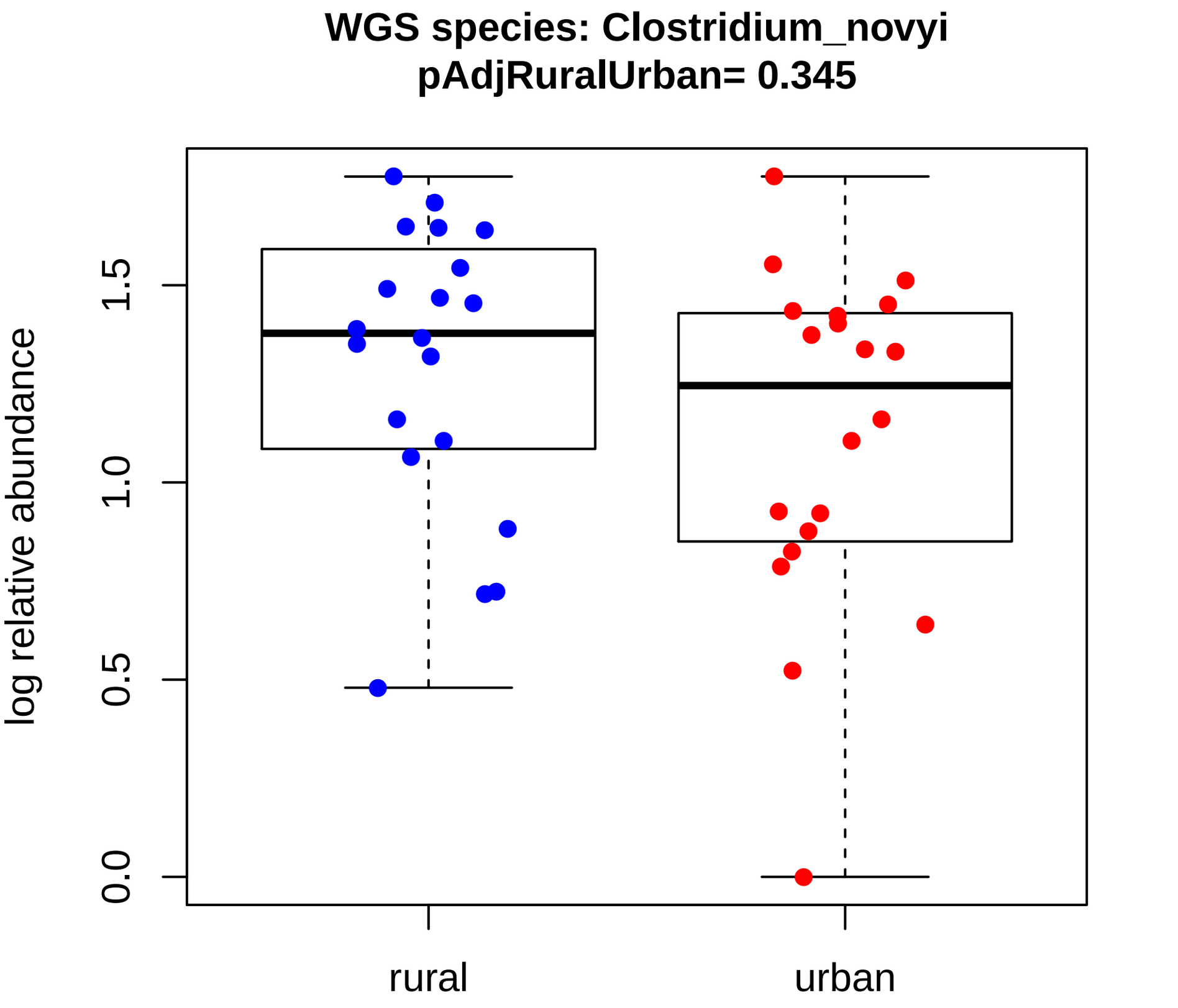

WGS species: Desulfomicrobium_baculatum
pAdjRuralUrban= 0.343
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

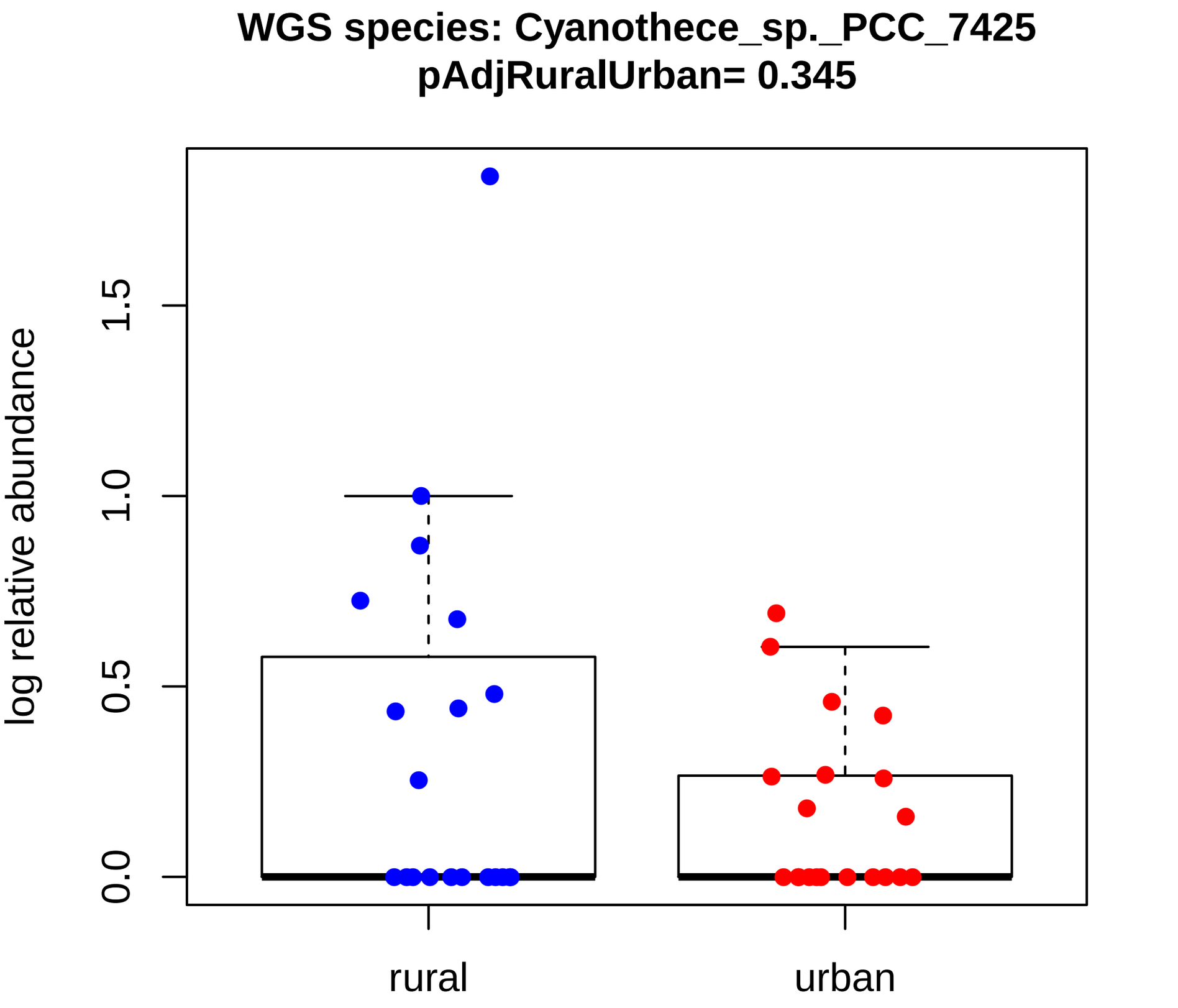

WGS species: Alkaliphilus_oremlandii
pAdjRuralUrban= 0.343
log relative abundance
0.6
0.8
1.0
1.2
1.4
1.6
rural
urban

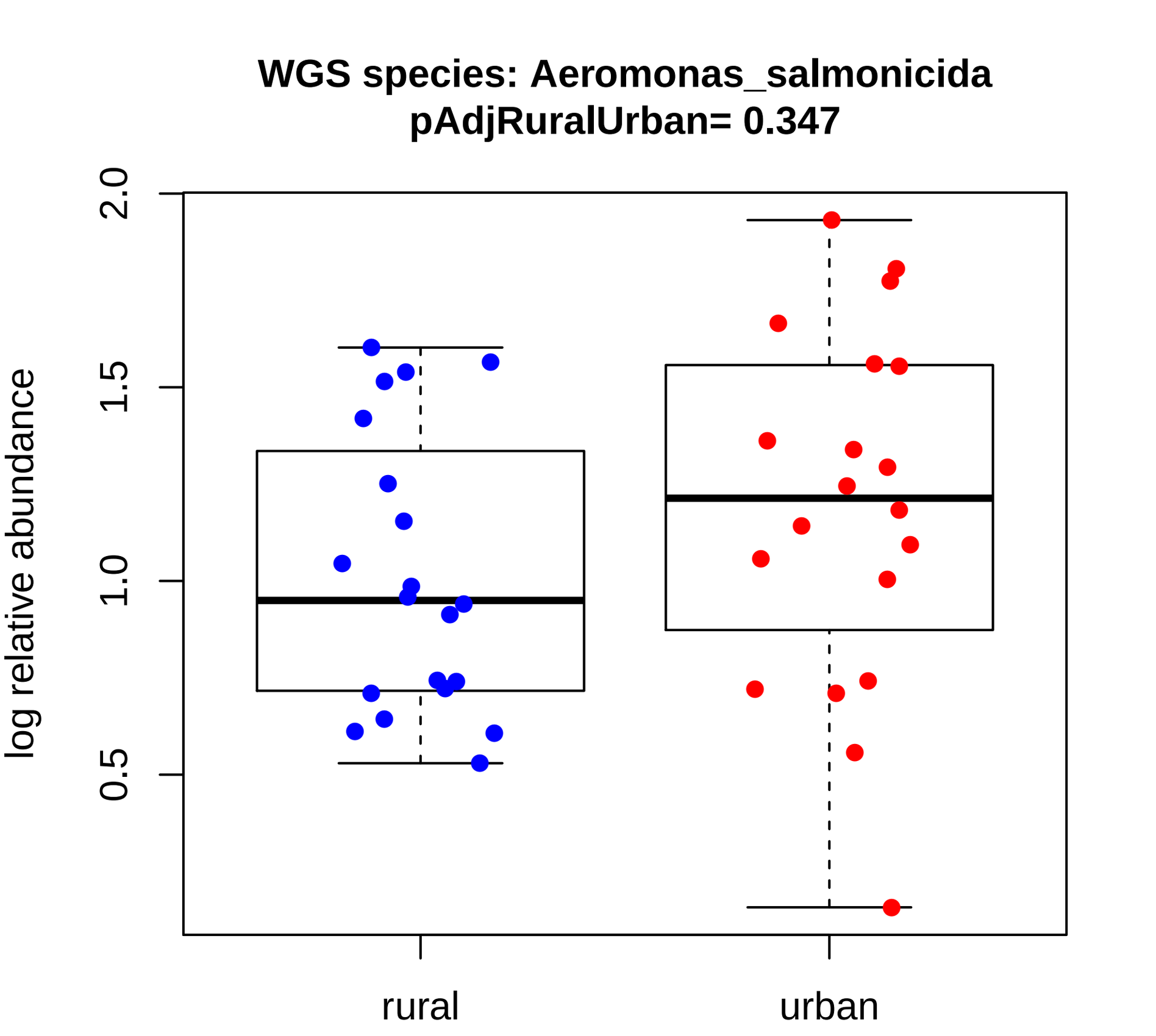

WGS species: Herbaspirillum_seropedicae
pAdjRuralUrban= 0.343
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

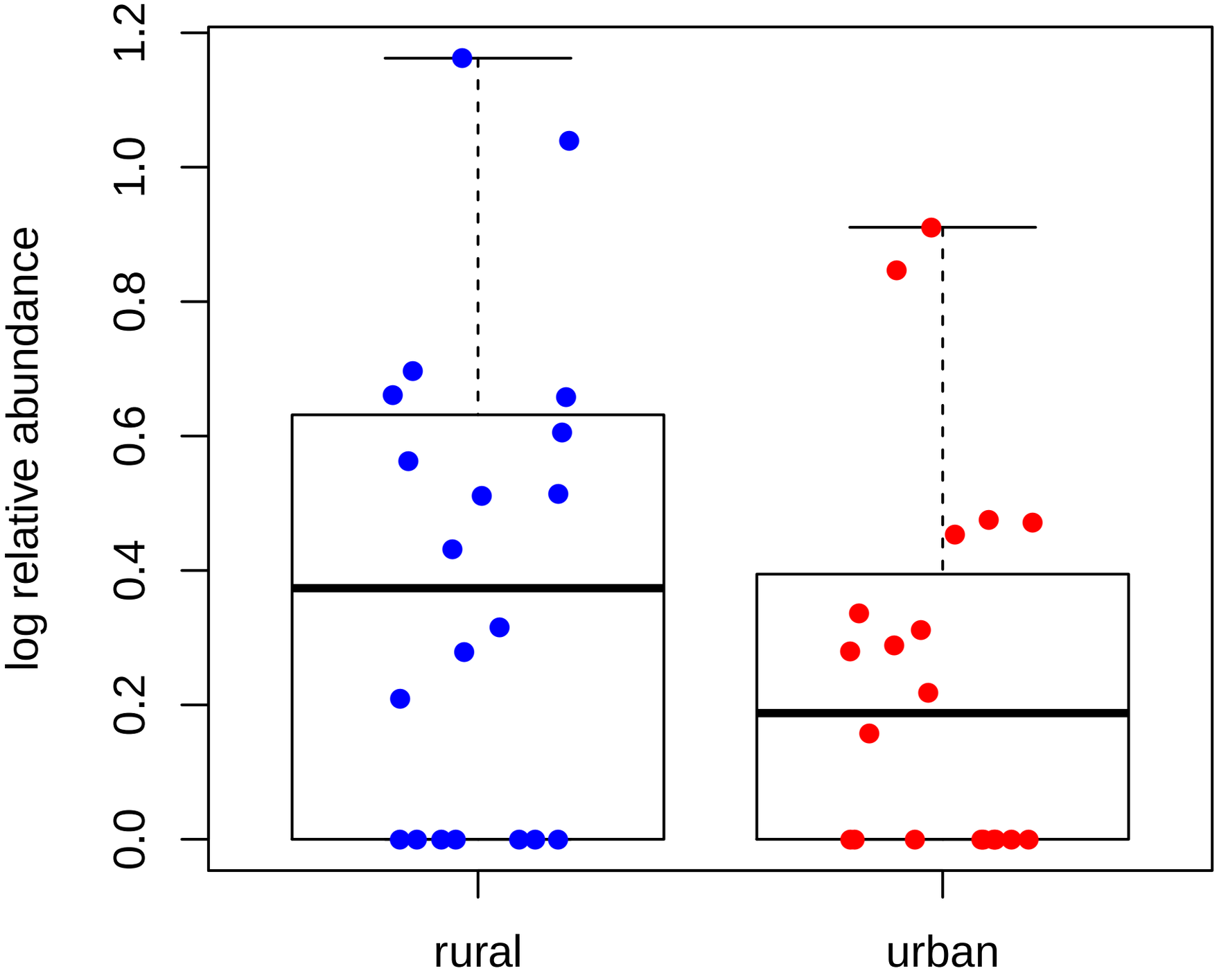

WGS species: Bacteroides_vulgatus
pAdjRuralUrban= 0.345
log relative abundance
6.0
5.5
5.0
4.5
rural
urban

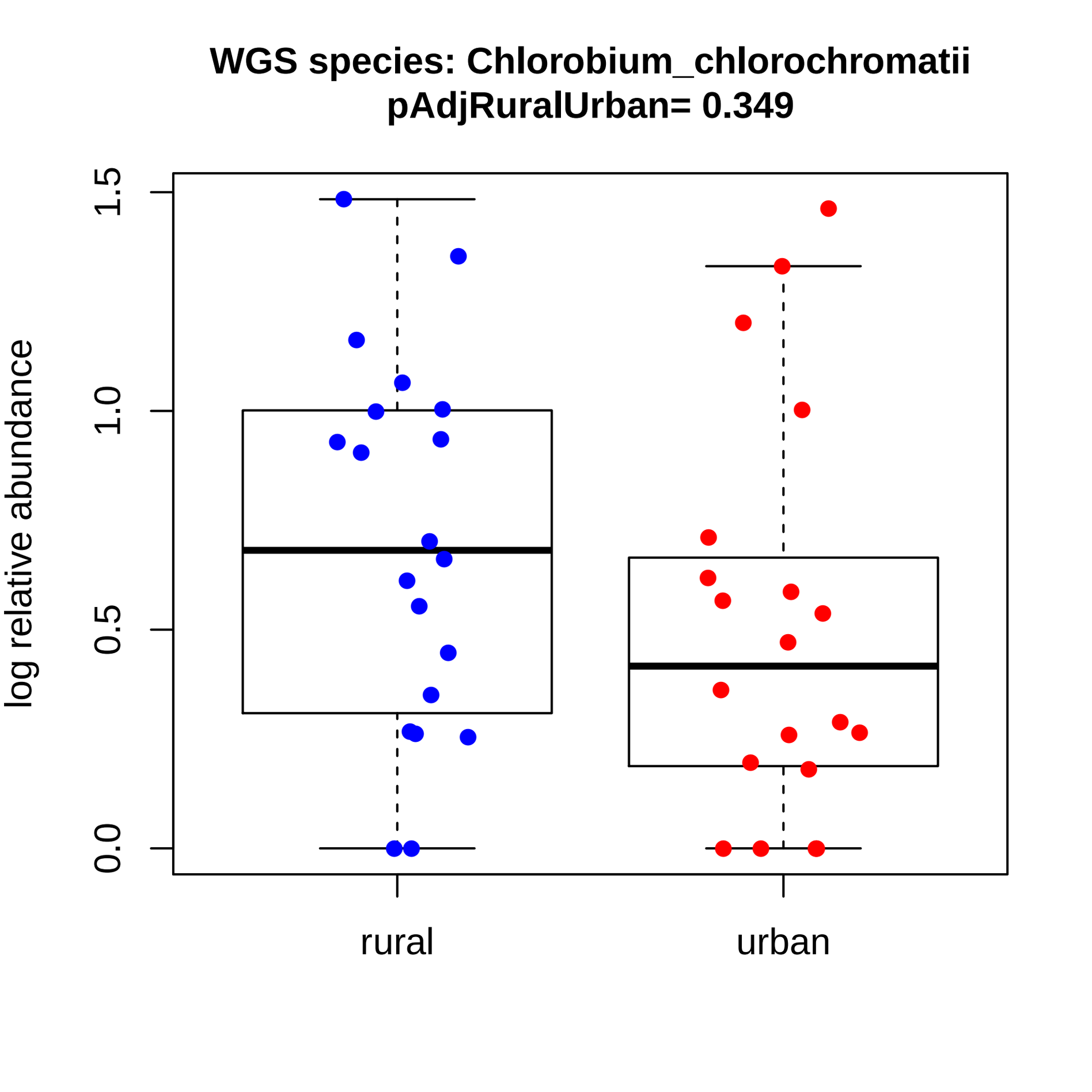

WGS species: Desulfovibrio_africanus
pAdjRuralUrban= 0.345
log relative abundance
0.5
1.0
1.5
rural
urban

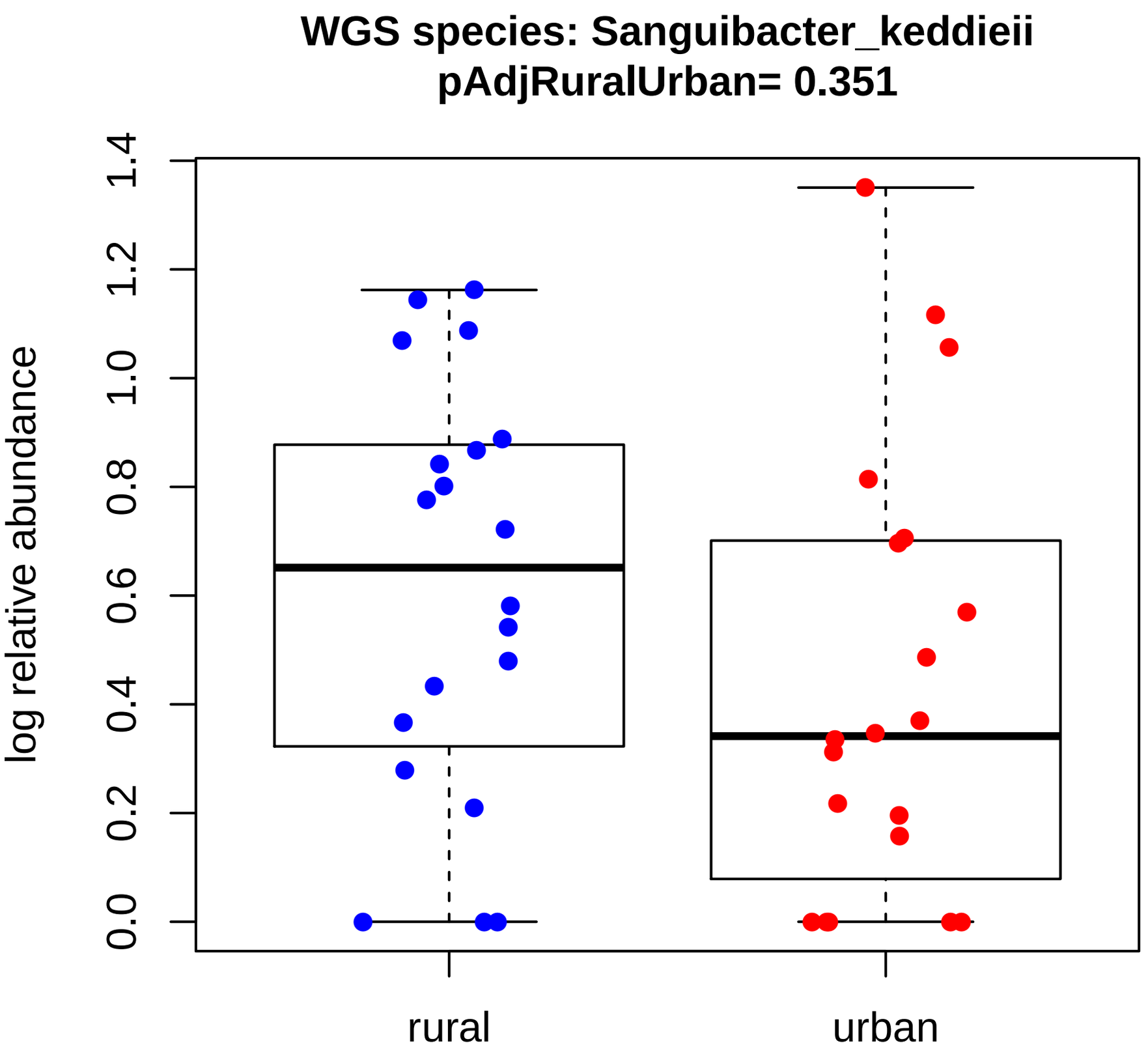

WGS species: Clostridium_novyi
pAdjRuralUrban= 0.345
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

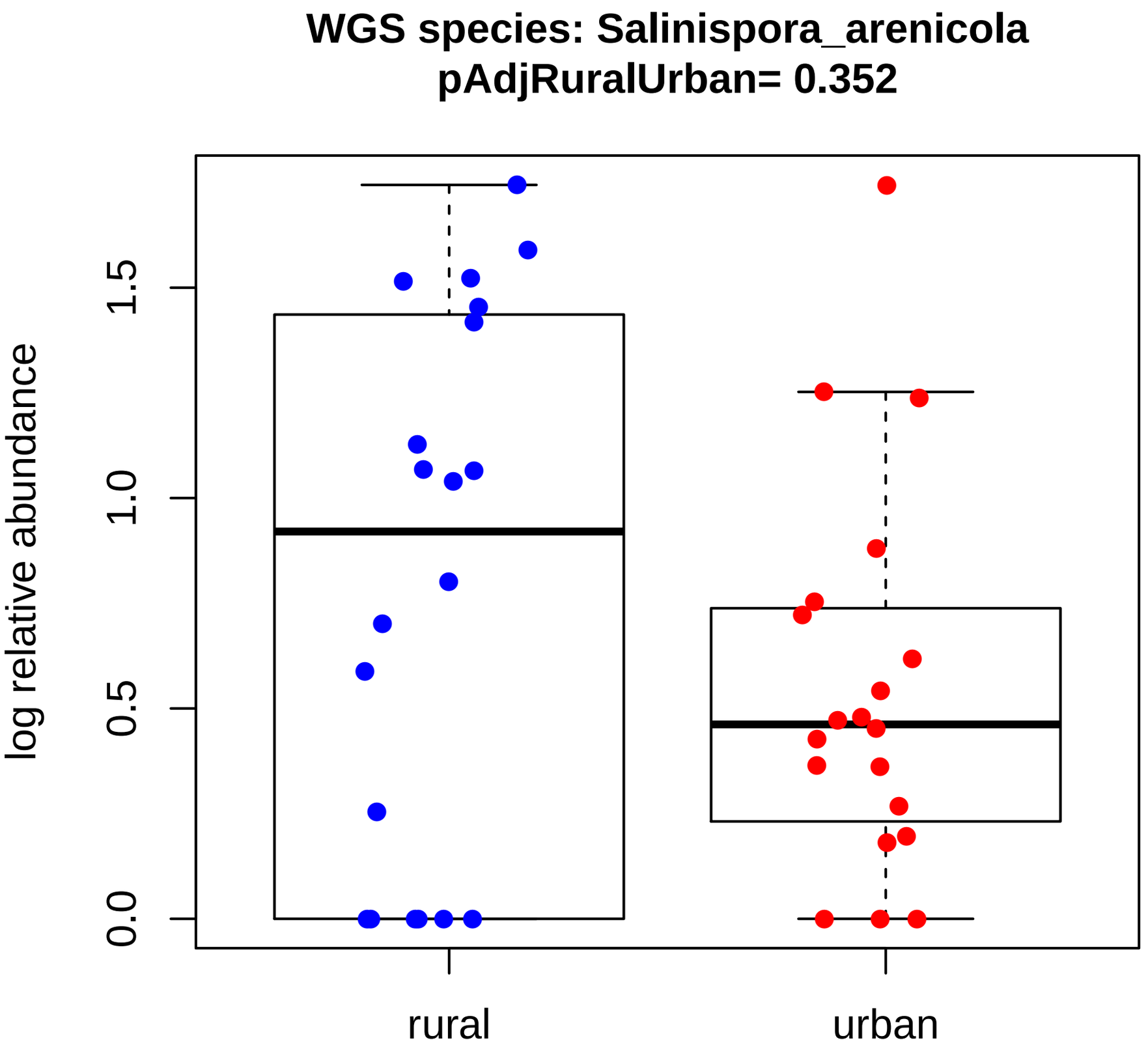

WGS species: Cyanothece_sp._PCC_7425
pAdjRuralUrban= 0.345
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

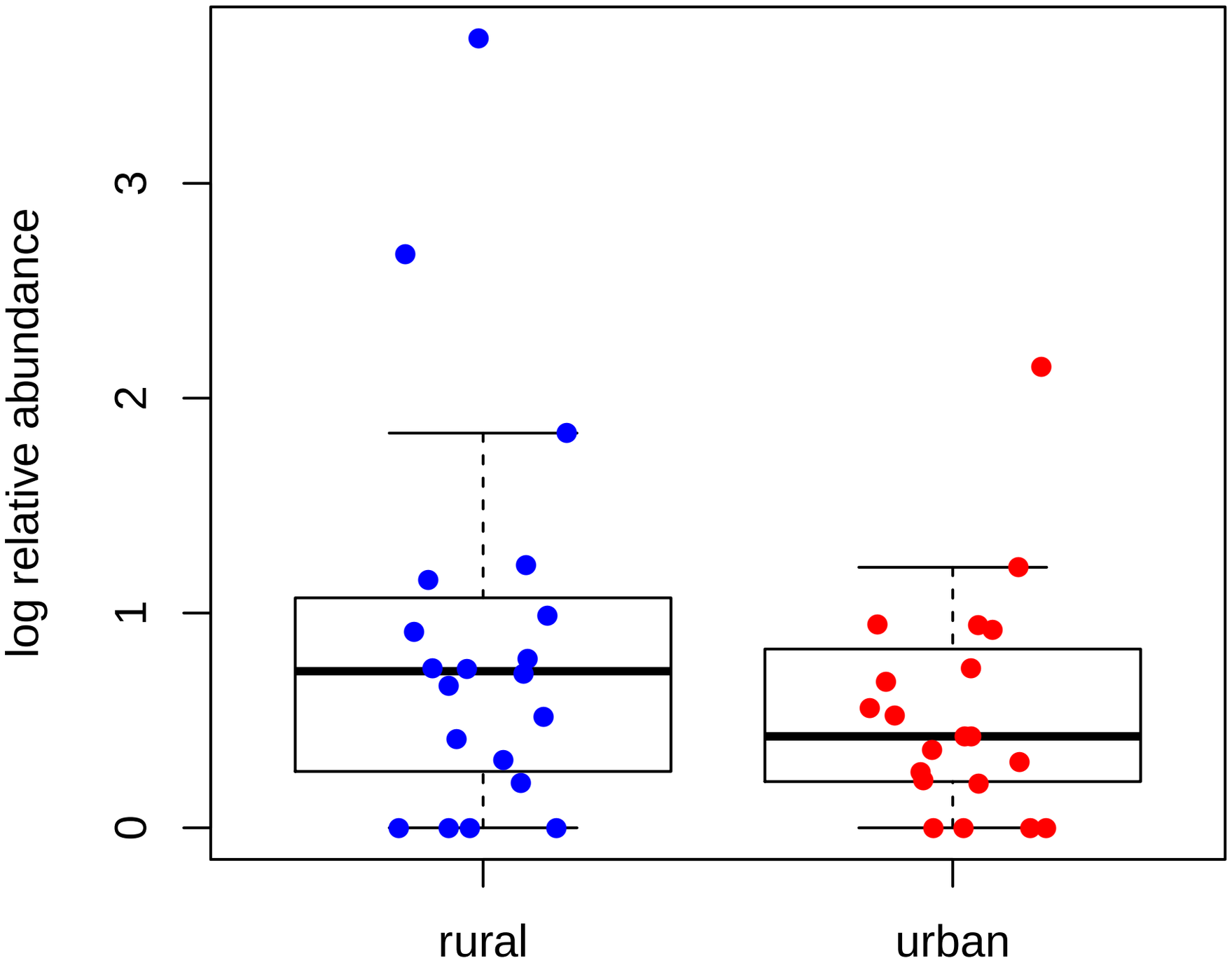

WGS species: Aeromonas_salmonicida
pAdjRuralUrban= 0.347
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

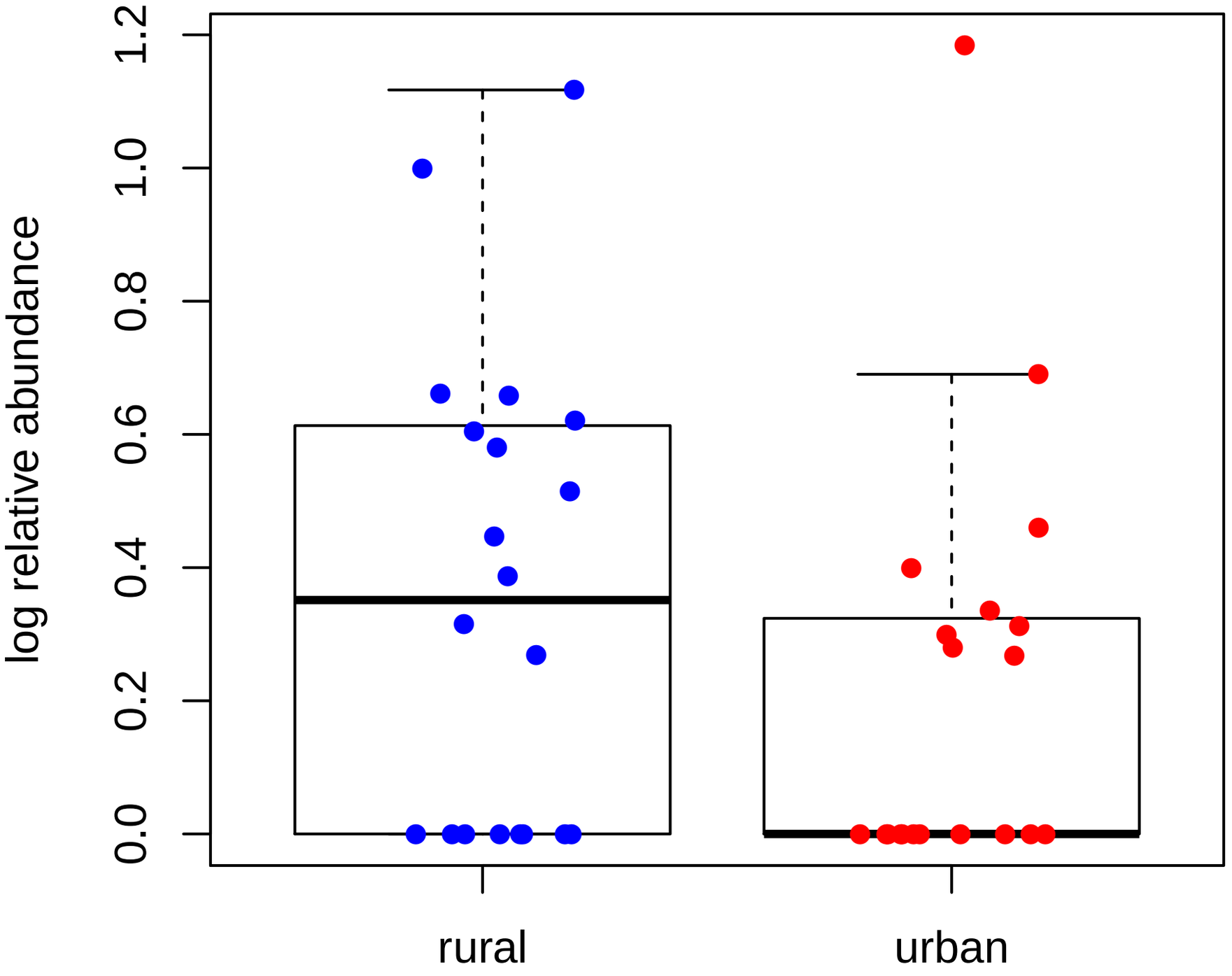

WGS species: Nocardia_farcinica
pAdjRuralUrban= 0.348
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

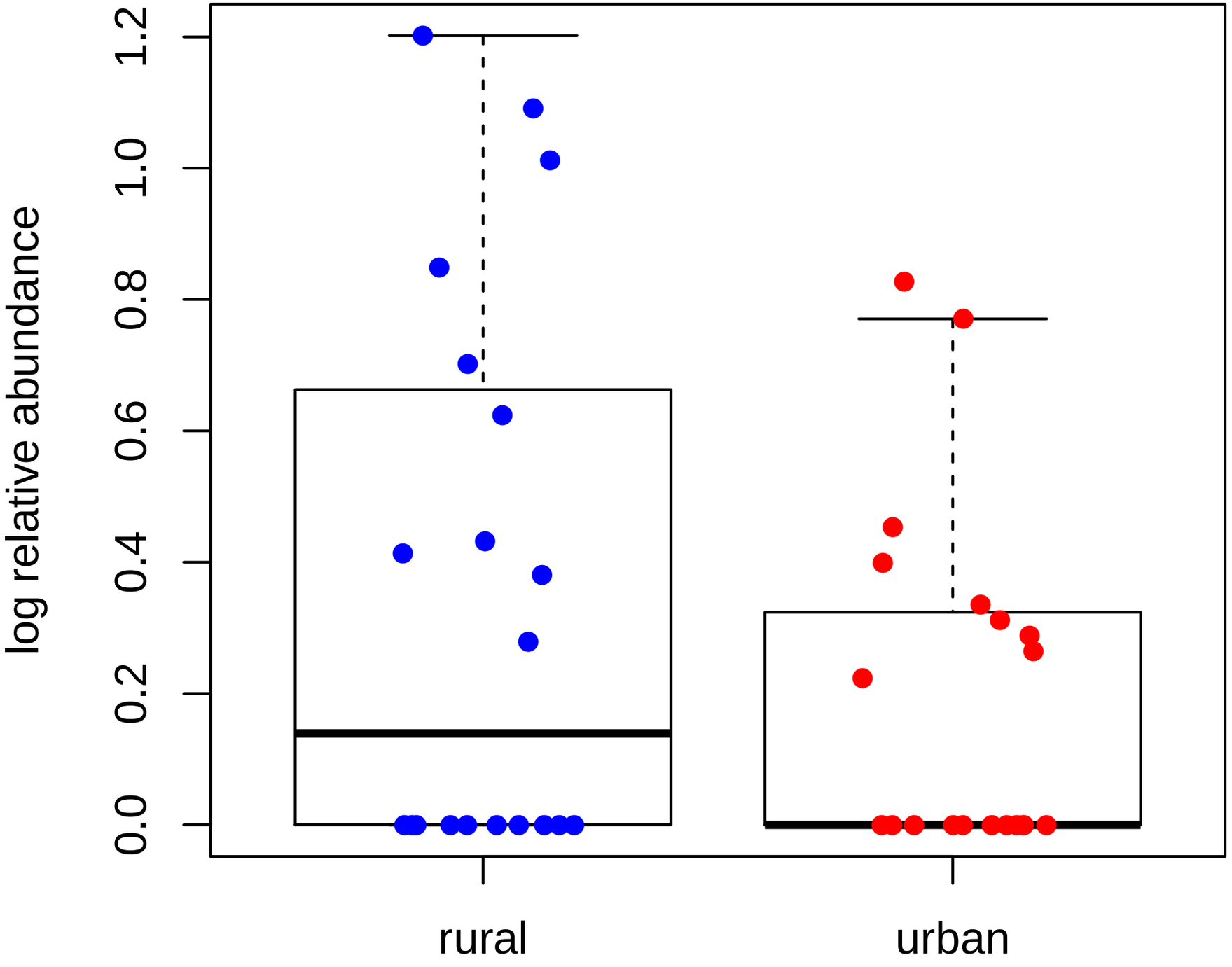

WGS species: Chlorobium_chlorochromatii
pAdjRuralUrban= 0.349
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

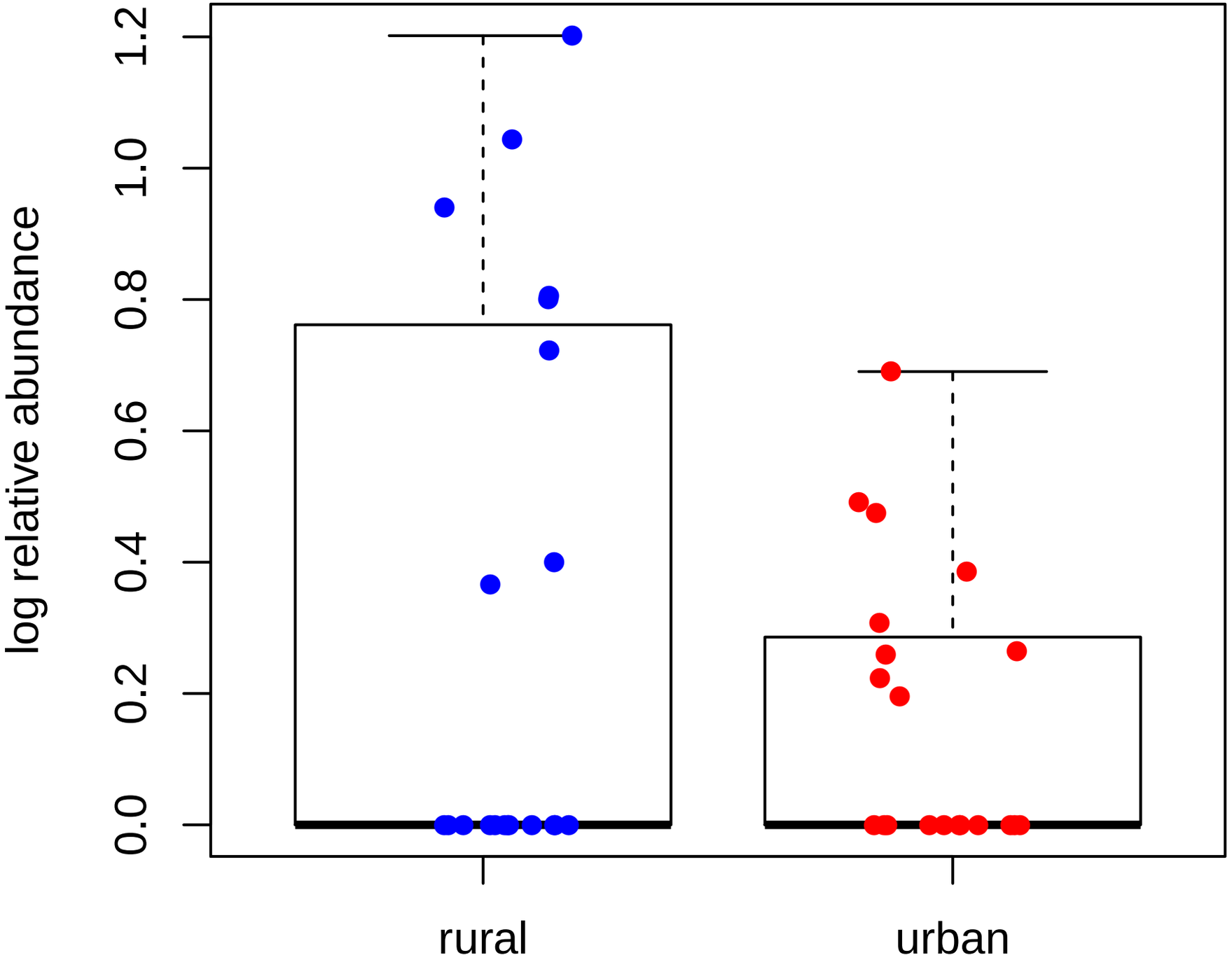

WGS species: Sanguibacter_keddieii
pAdjRuralUrban= 0.351
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

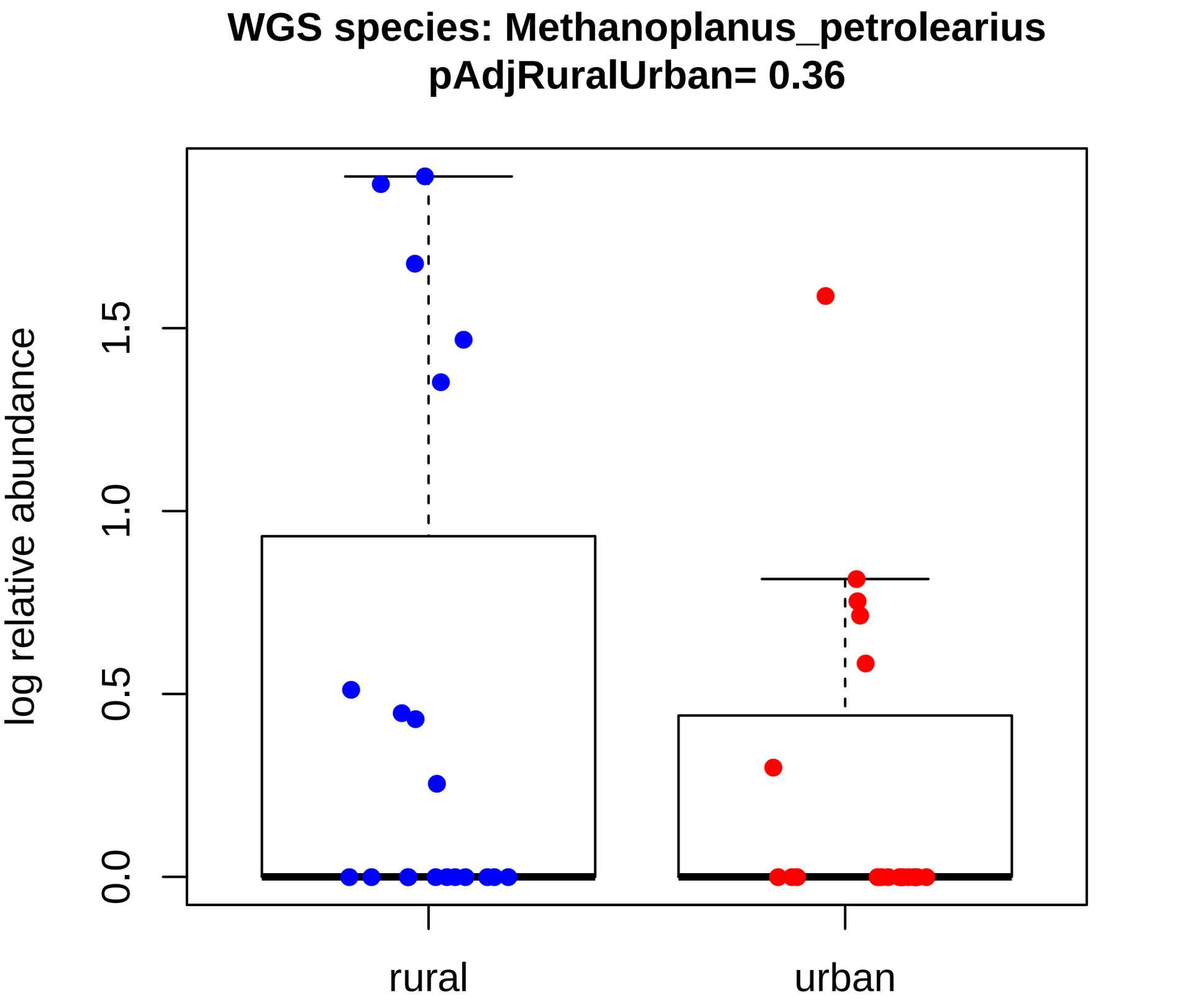

WGS species: Salinispora_arenicola
pAdjRuralUrban= 0.352
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

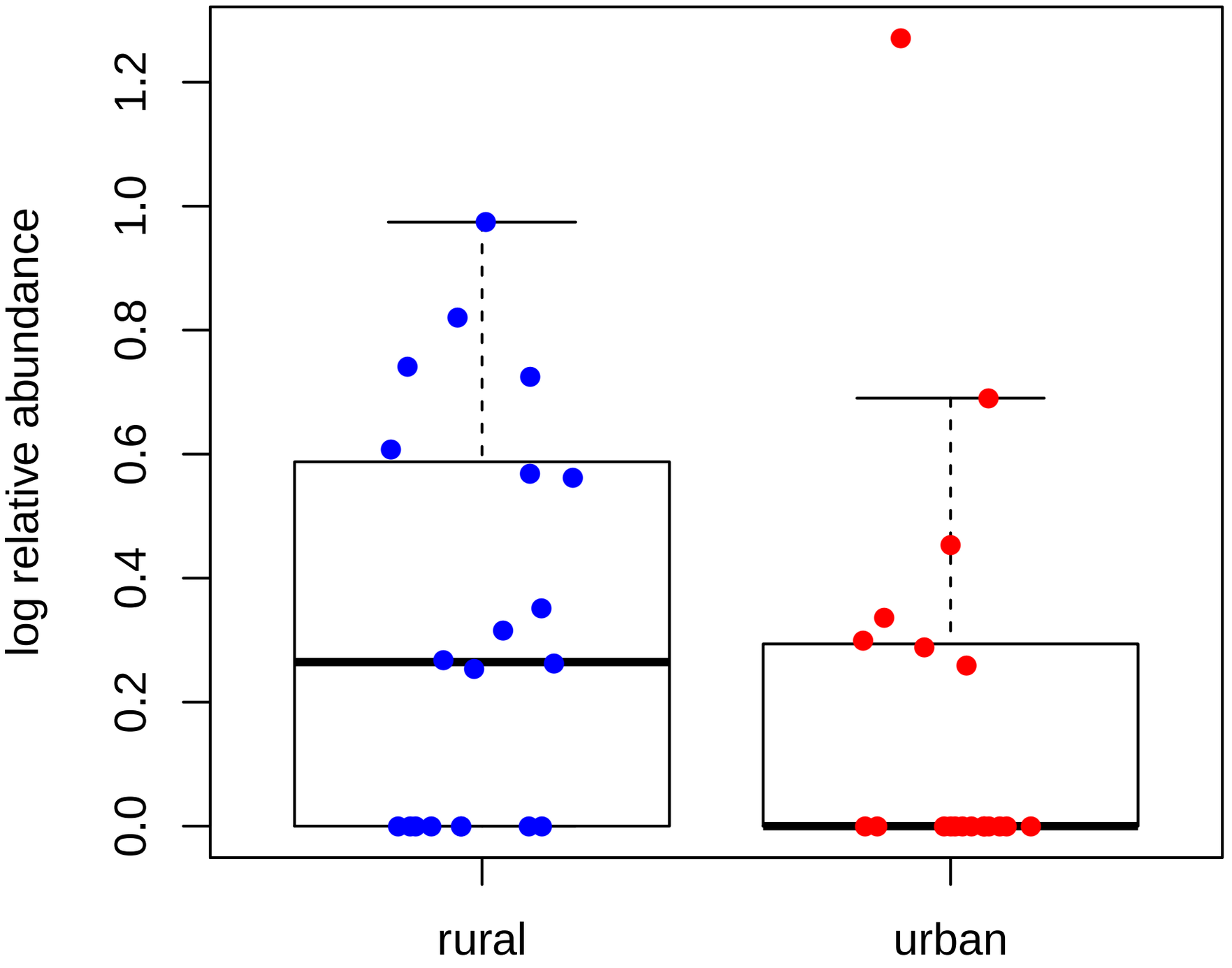

WGS species: Lactobacillus_gasseri
pAdjRuralUrban= 0.352
log relative abundance
0
1
2
3
rural
urban

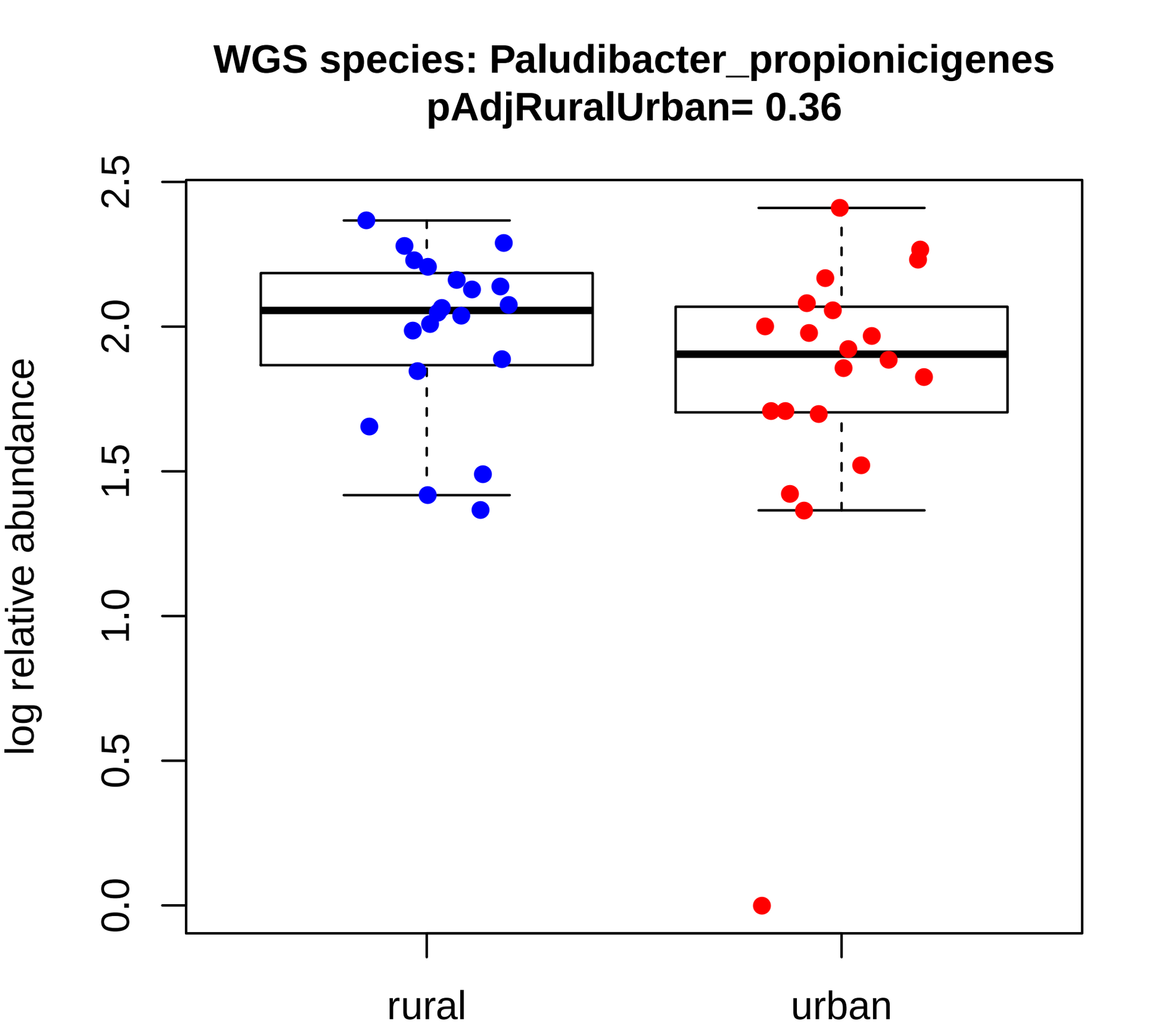

WGS species: Cellulomonas_fimi
pAdjRuralUrban= 0.353
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

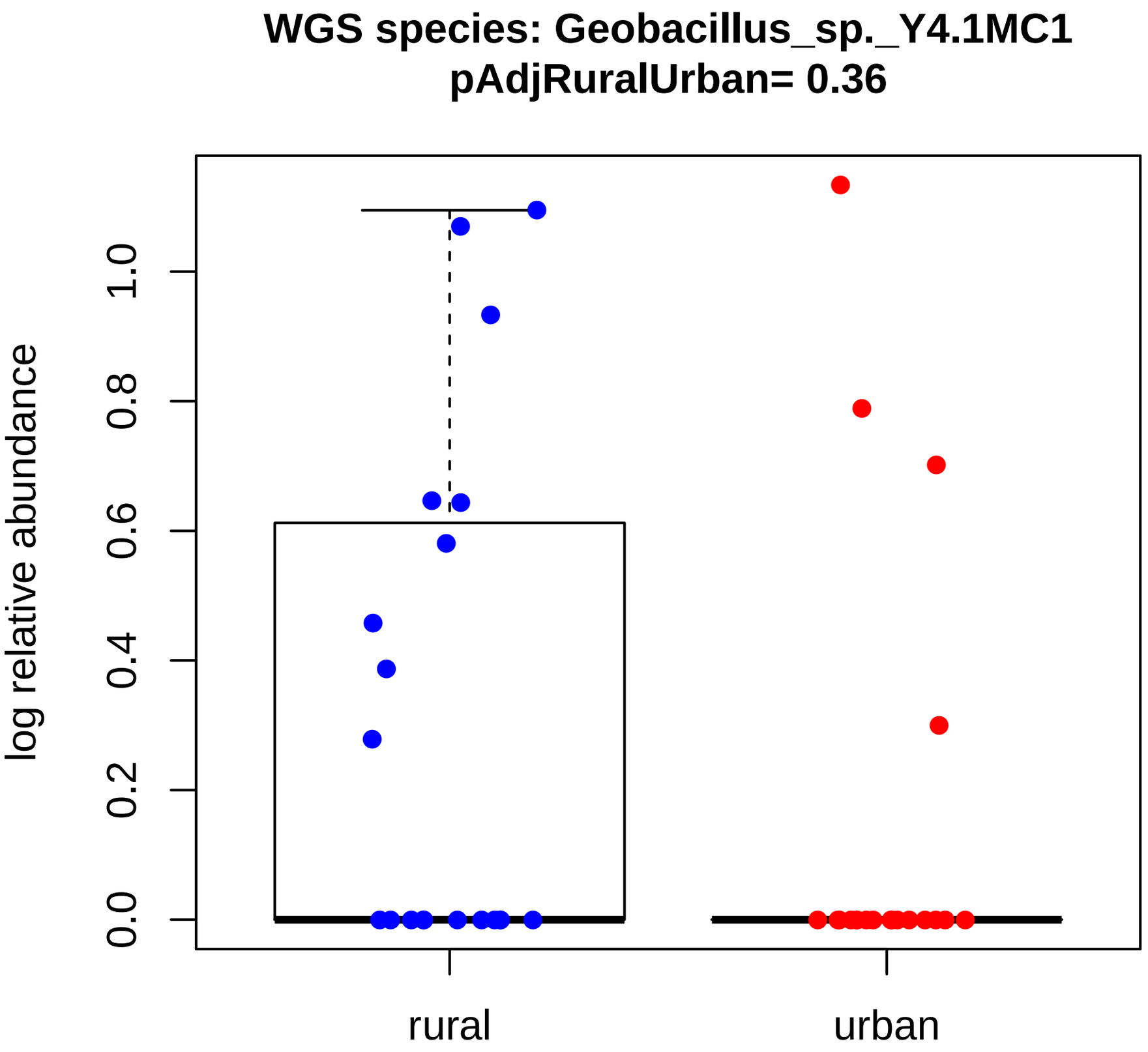

WGS species: Bacillus_weihenstephanensis
pAdjRuralUrban= 0.353
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

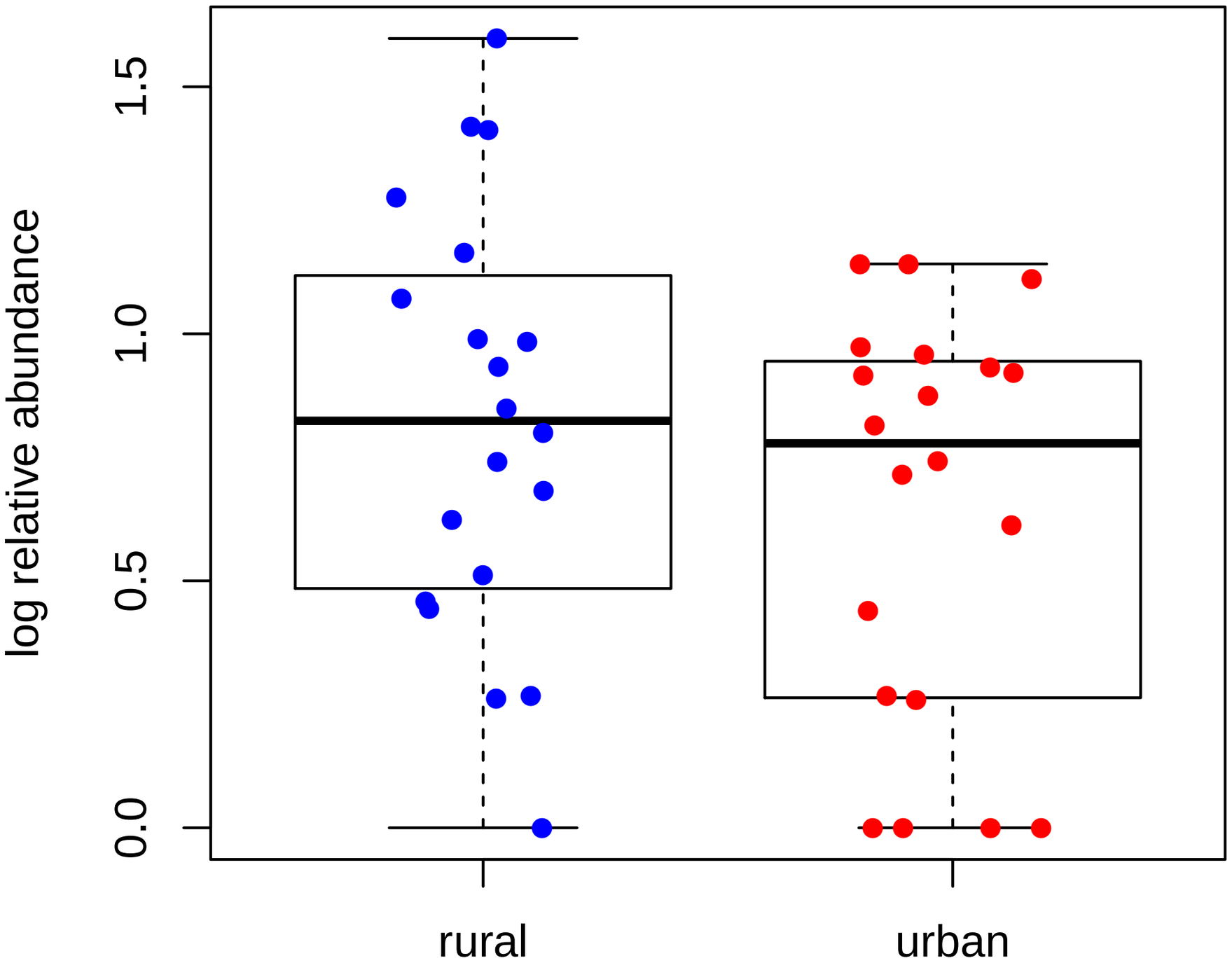

WGS species: Methanocella_arvoryzae
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

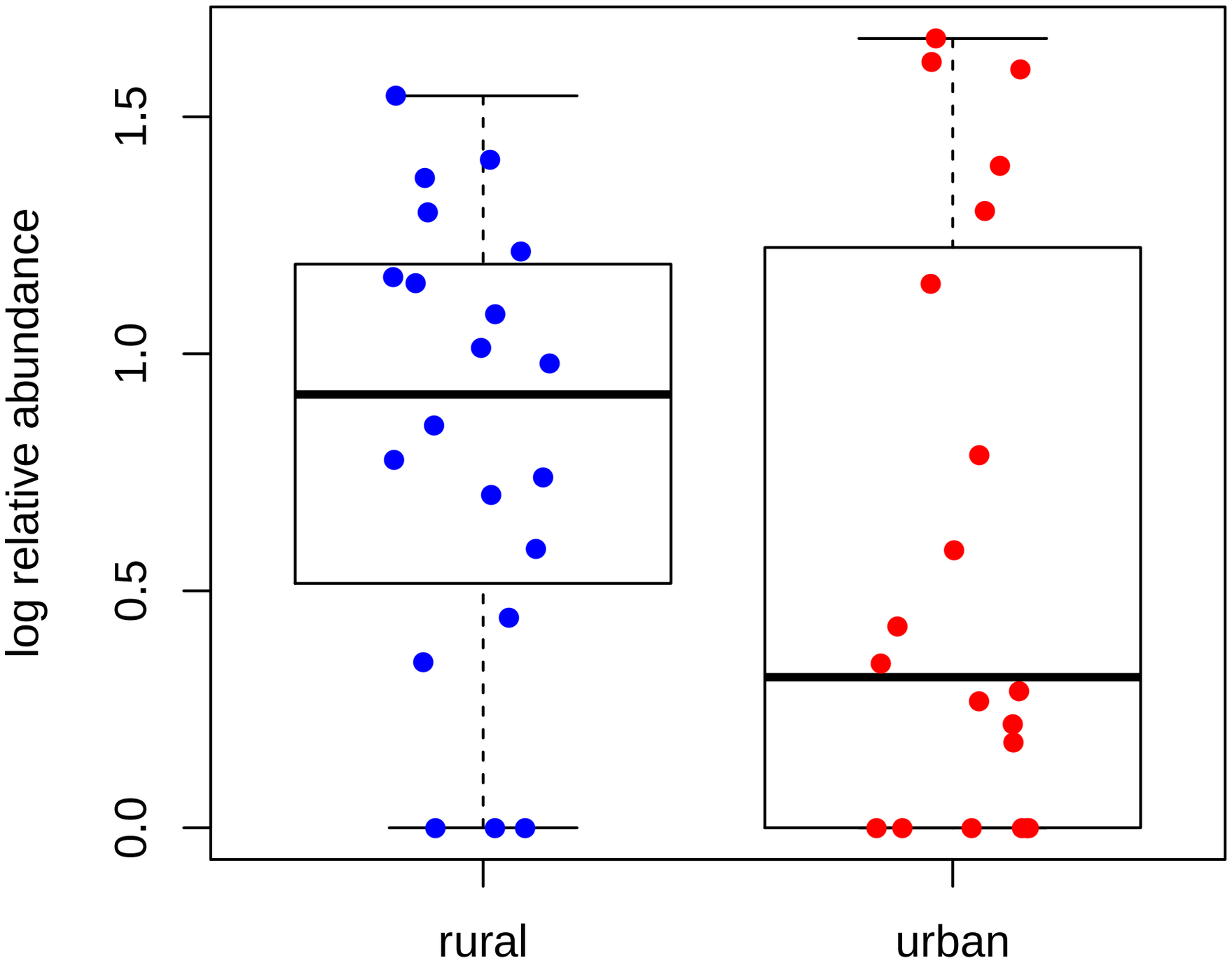

WGS species: Methanoplanus_petrolearius
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

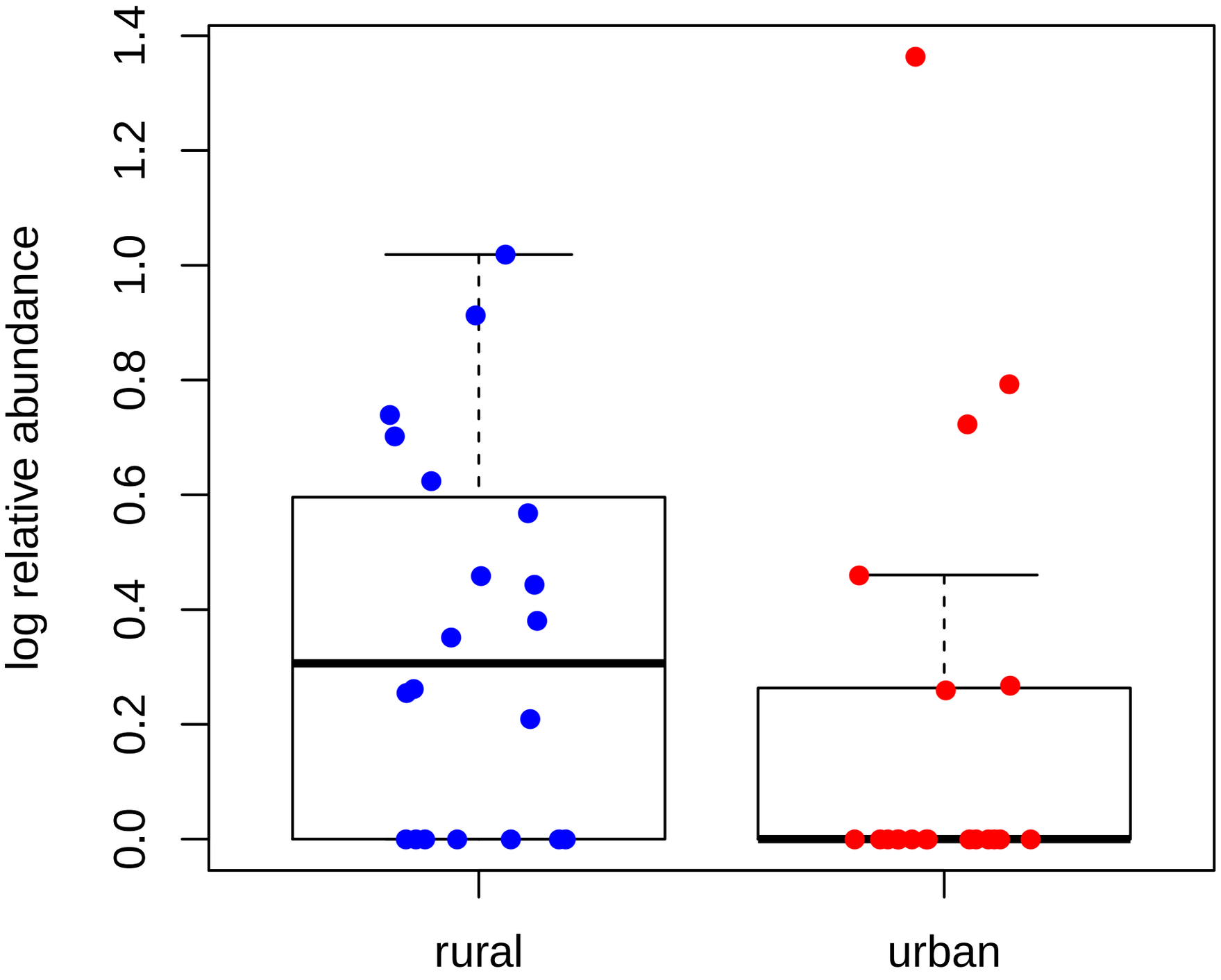

WGS species: Caldicellulosiruptor_hydrothermalis
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

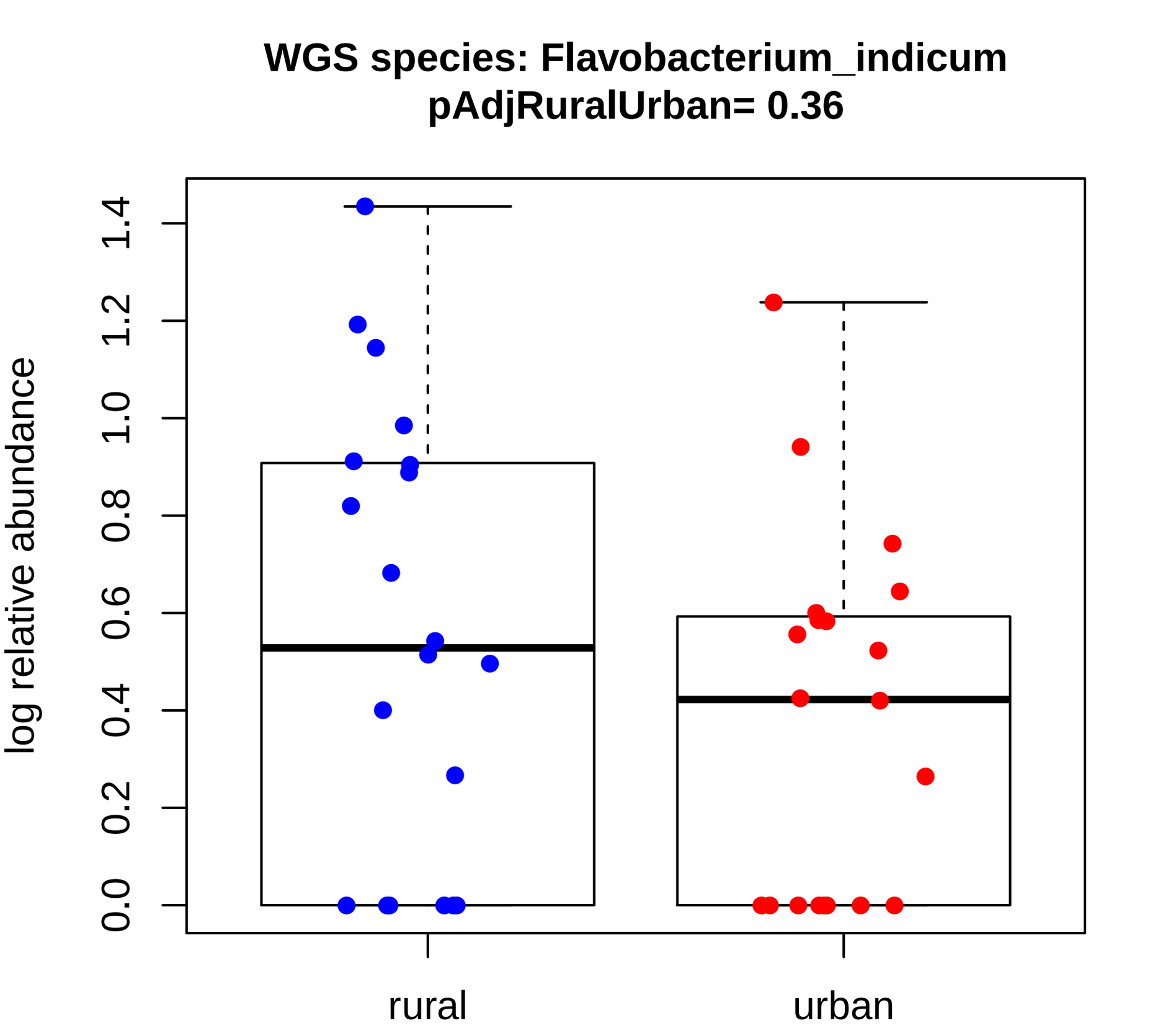

WGS species: Paludibacter_propionicigenes
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

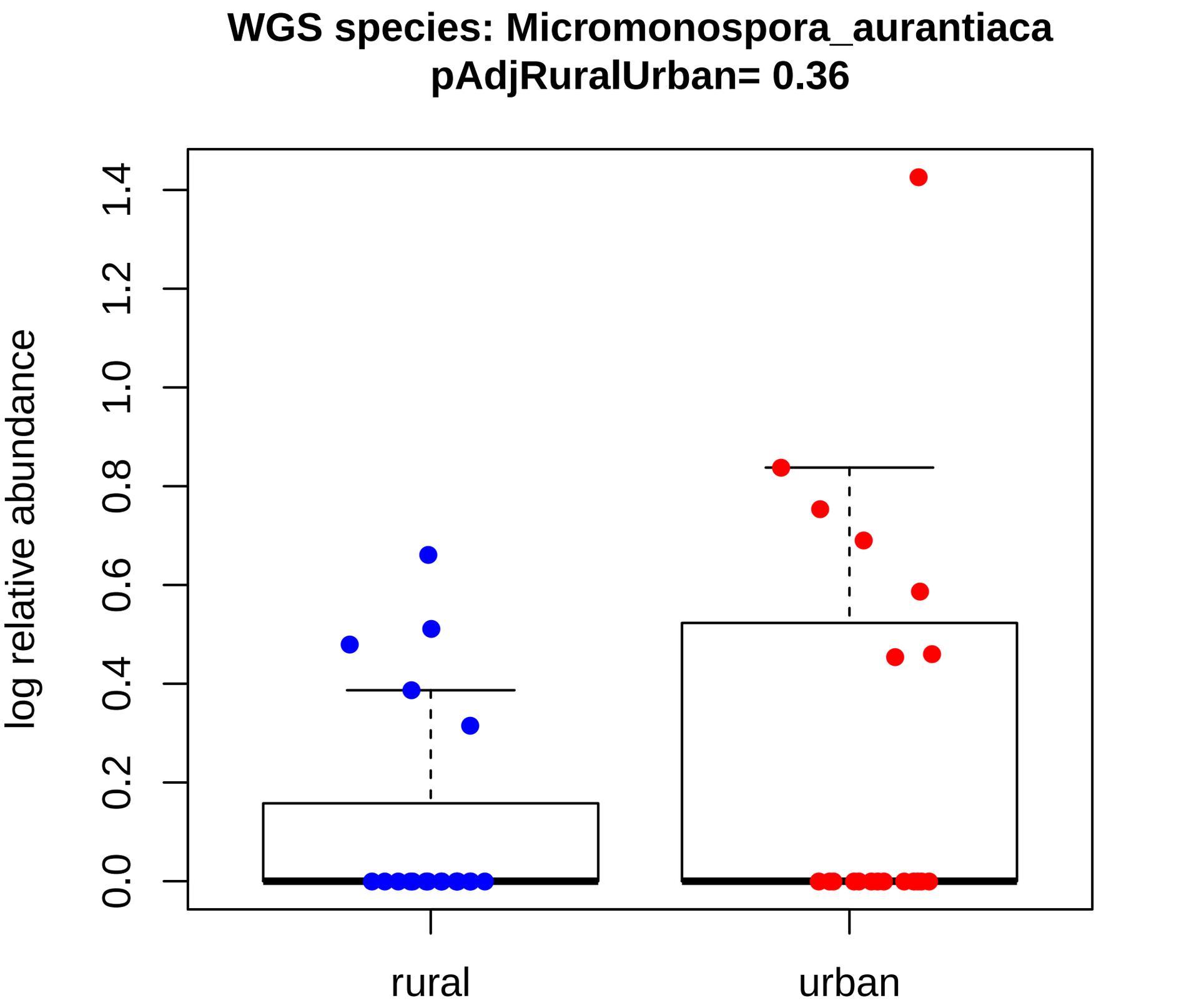

WGS species: Geobacillus_sp._Y4.1MC1
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

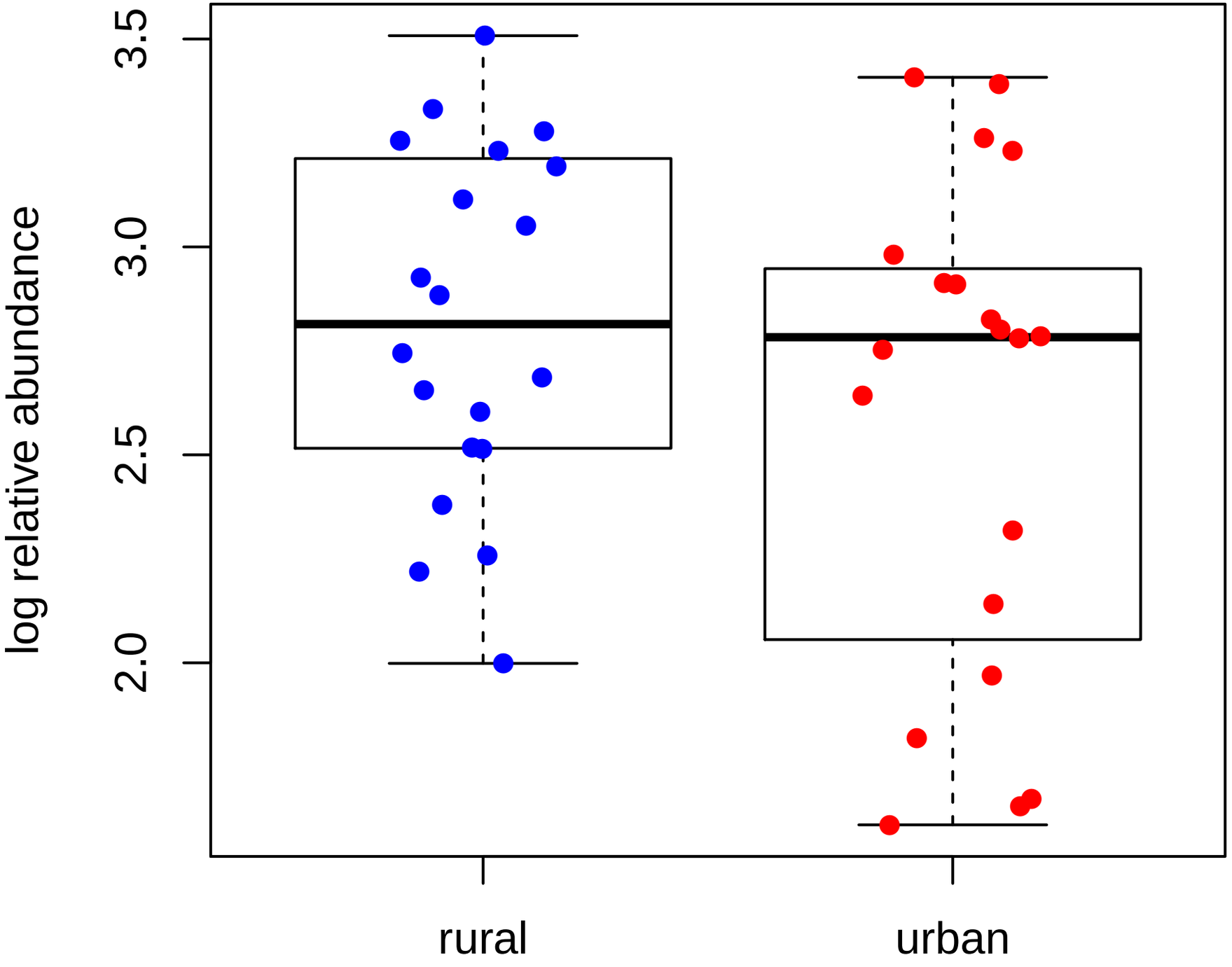

WGS species: Spirosoma_linguale
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

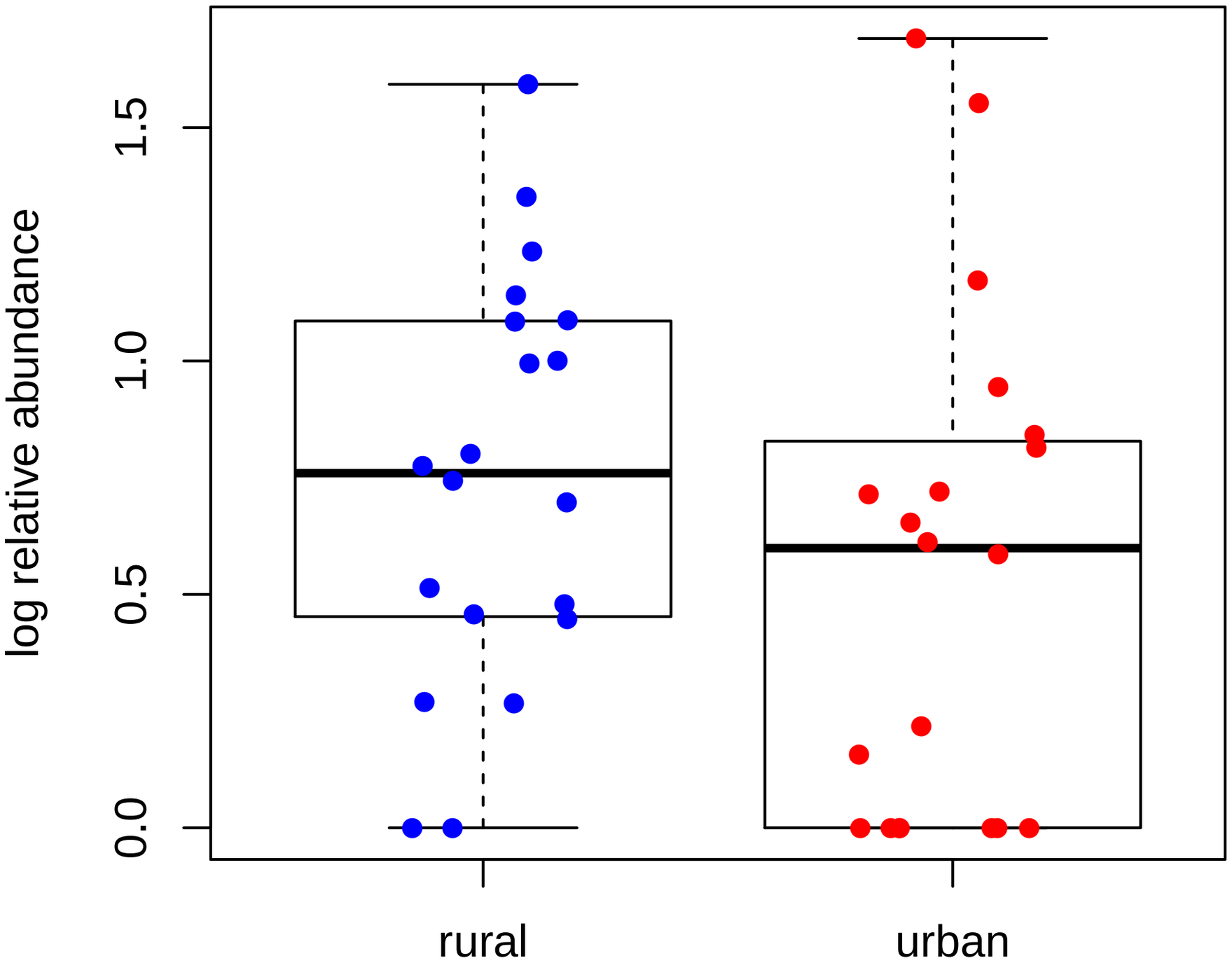

WGS species: Sulfurihydrogenibium_azorense
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

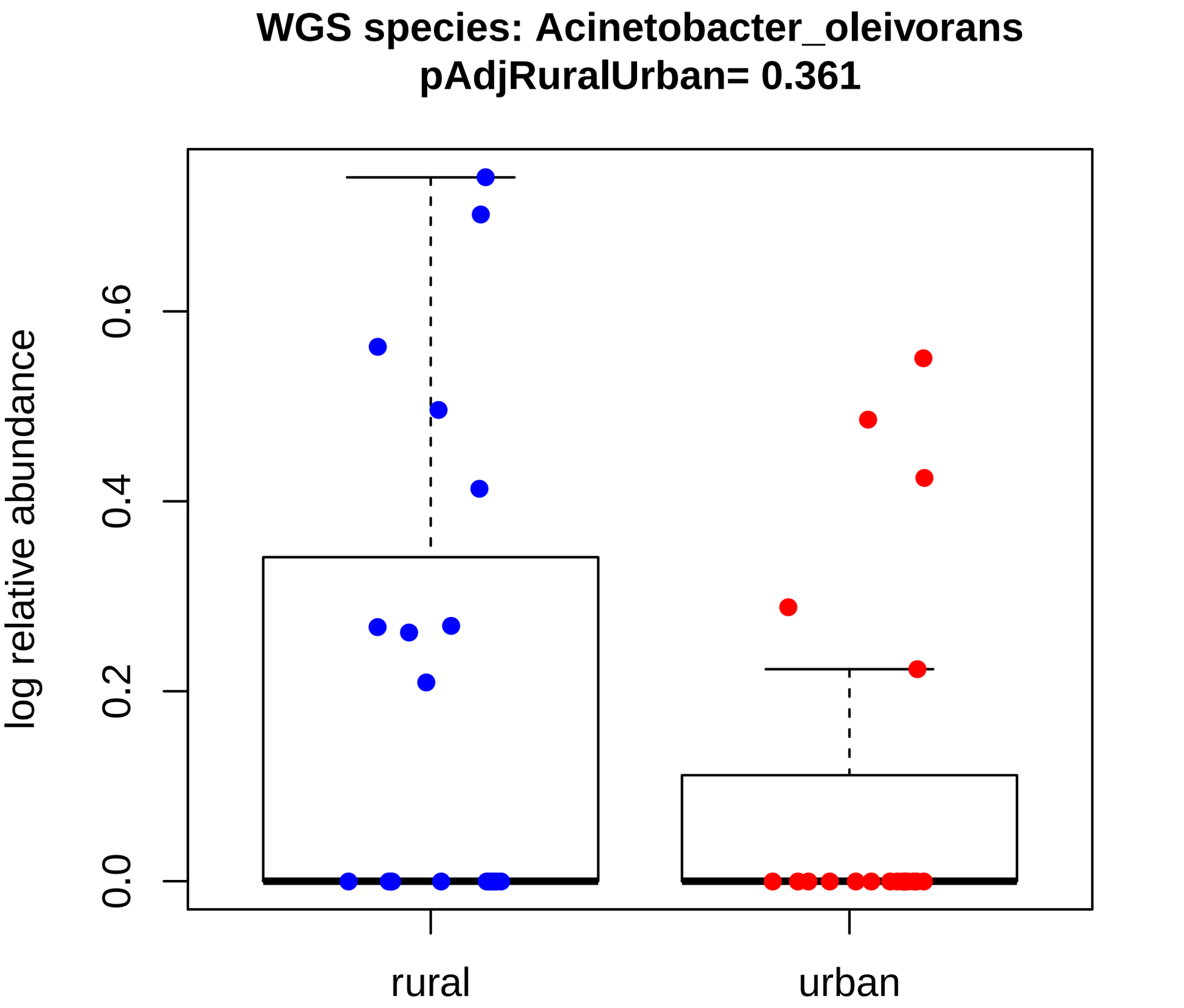

WGS species: Sulfurospirillum_barnesii
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

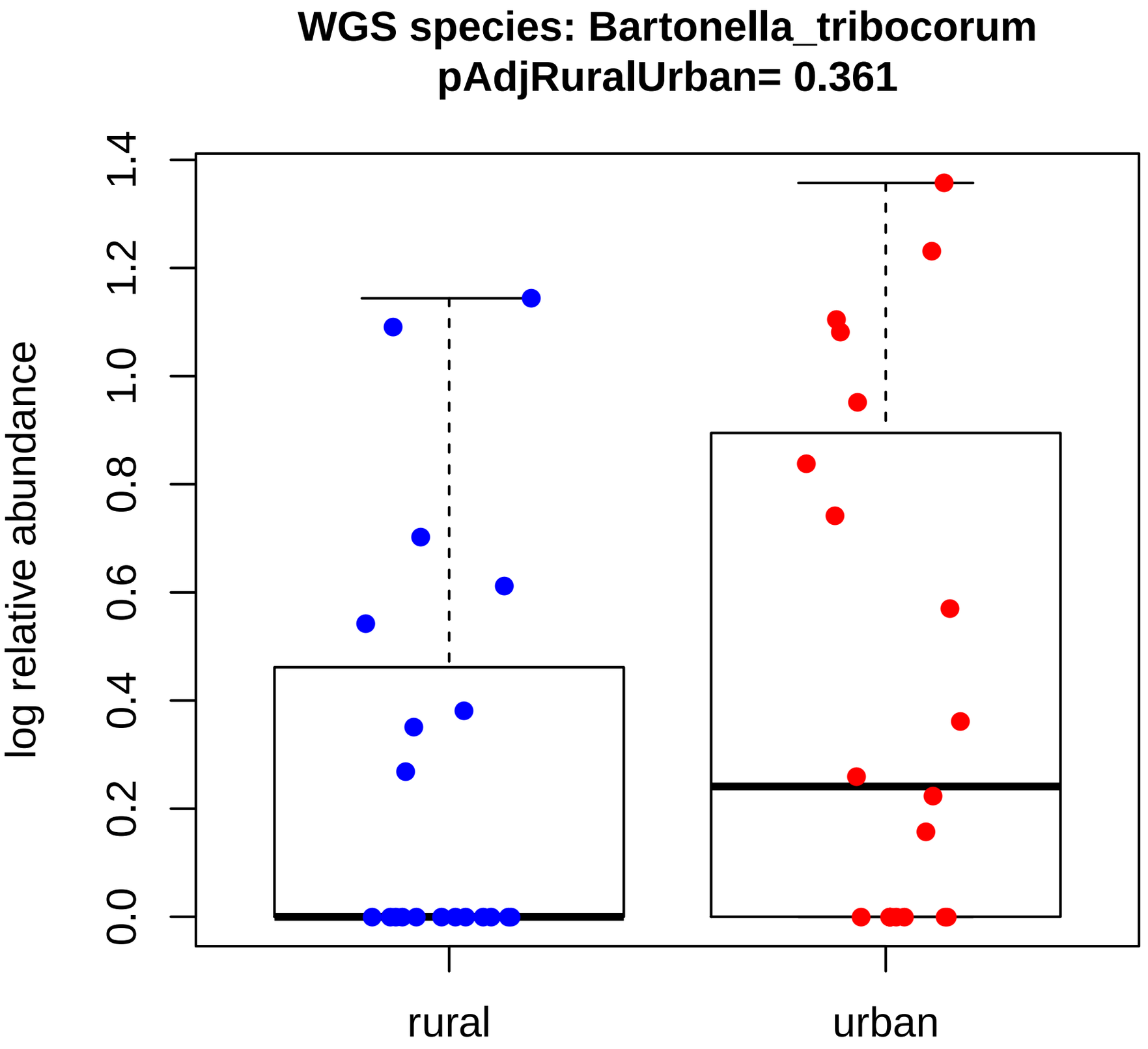

WGS species: Flavobacterium_indicum
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

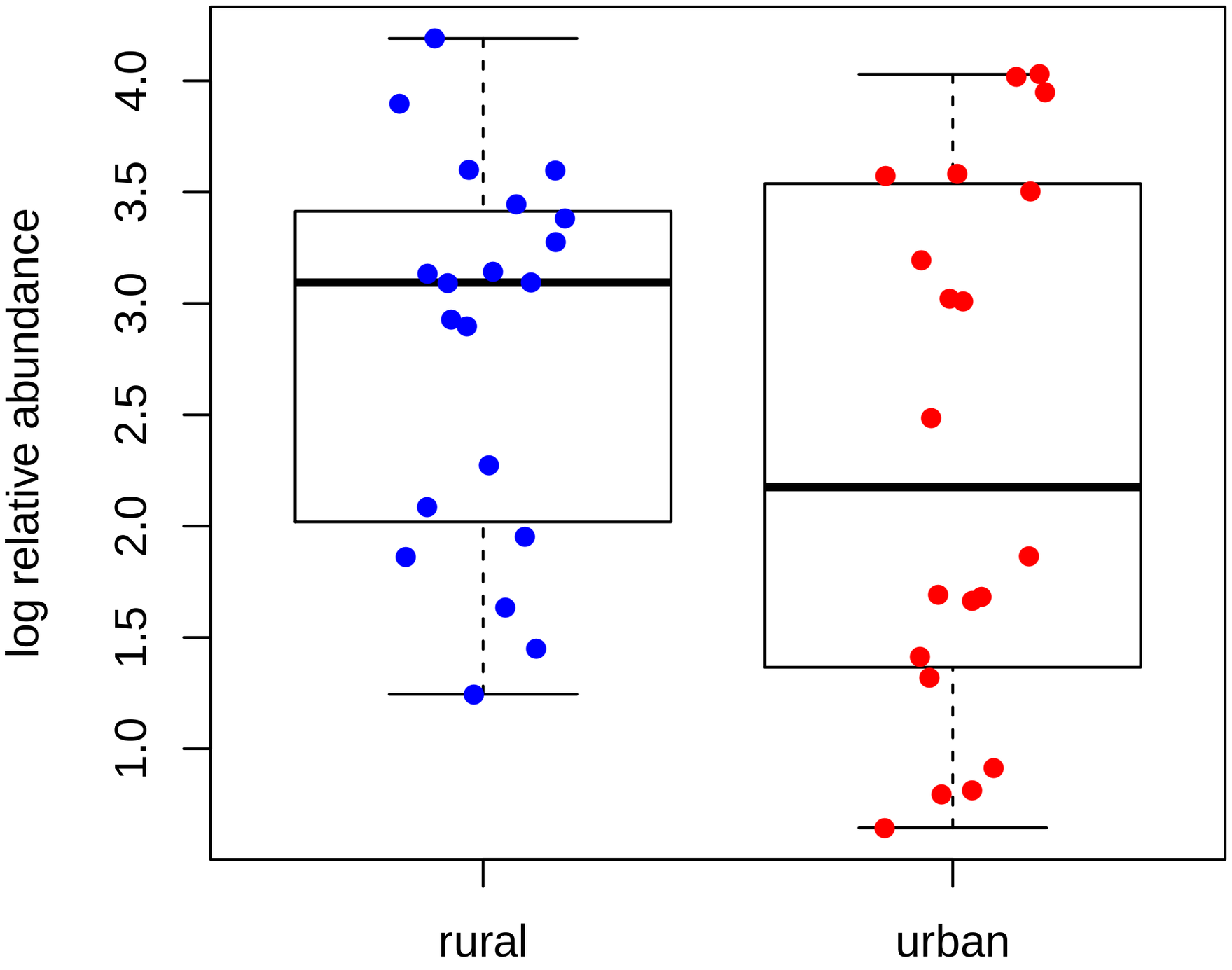

WGS species: Micromonospora_aurantiaca
pAdjRuralUrban= 0.36
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

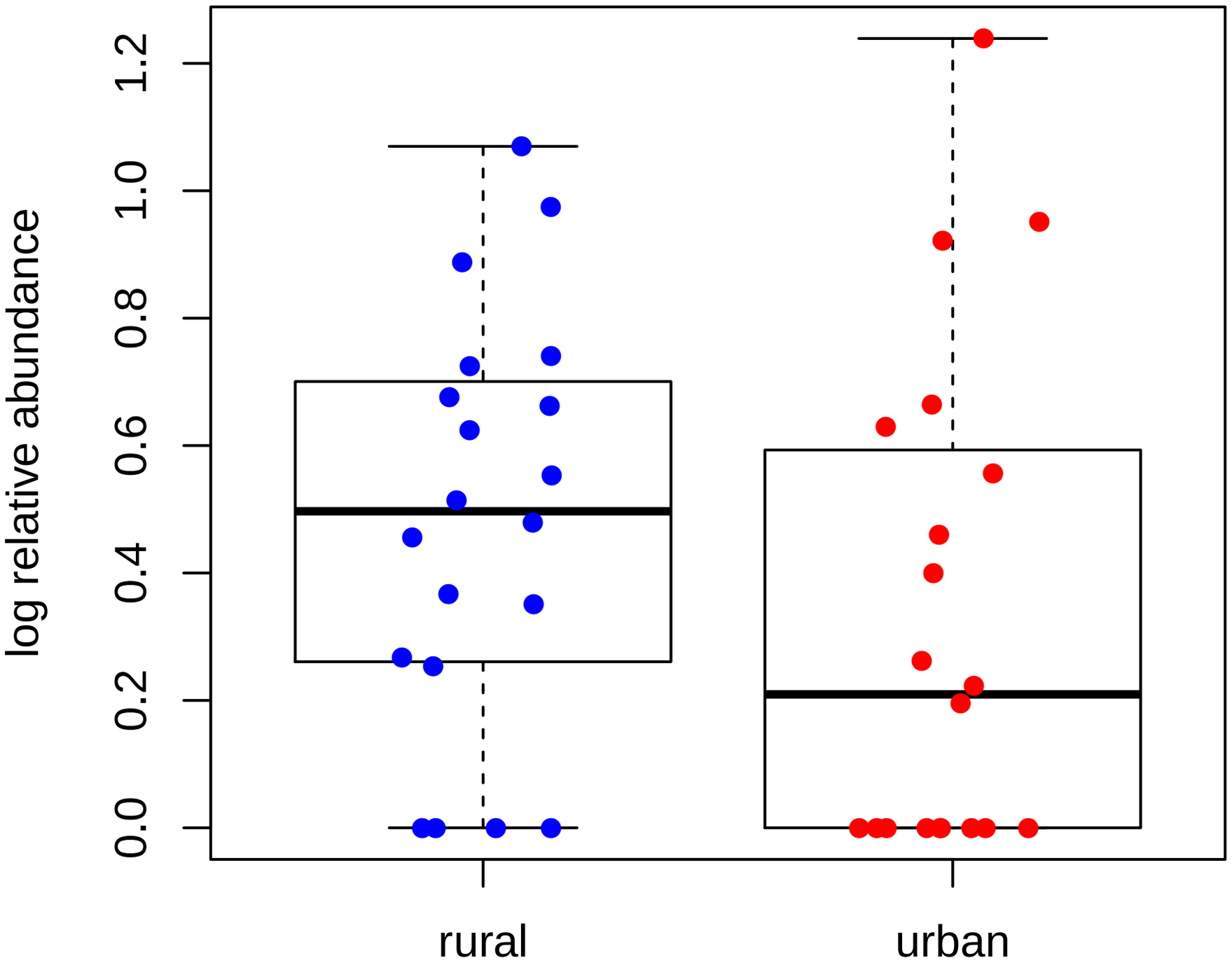

WGS species: Oscillibacter_valericigenes
pAdjRuralUrban= 0.36
log relative abundance
2.0
2.5
3.0
3.5
rural
urban

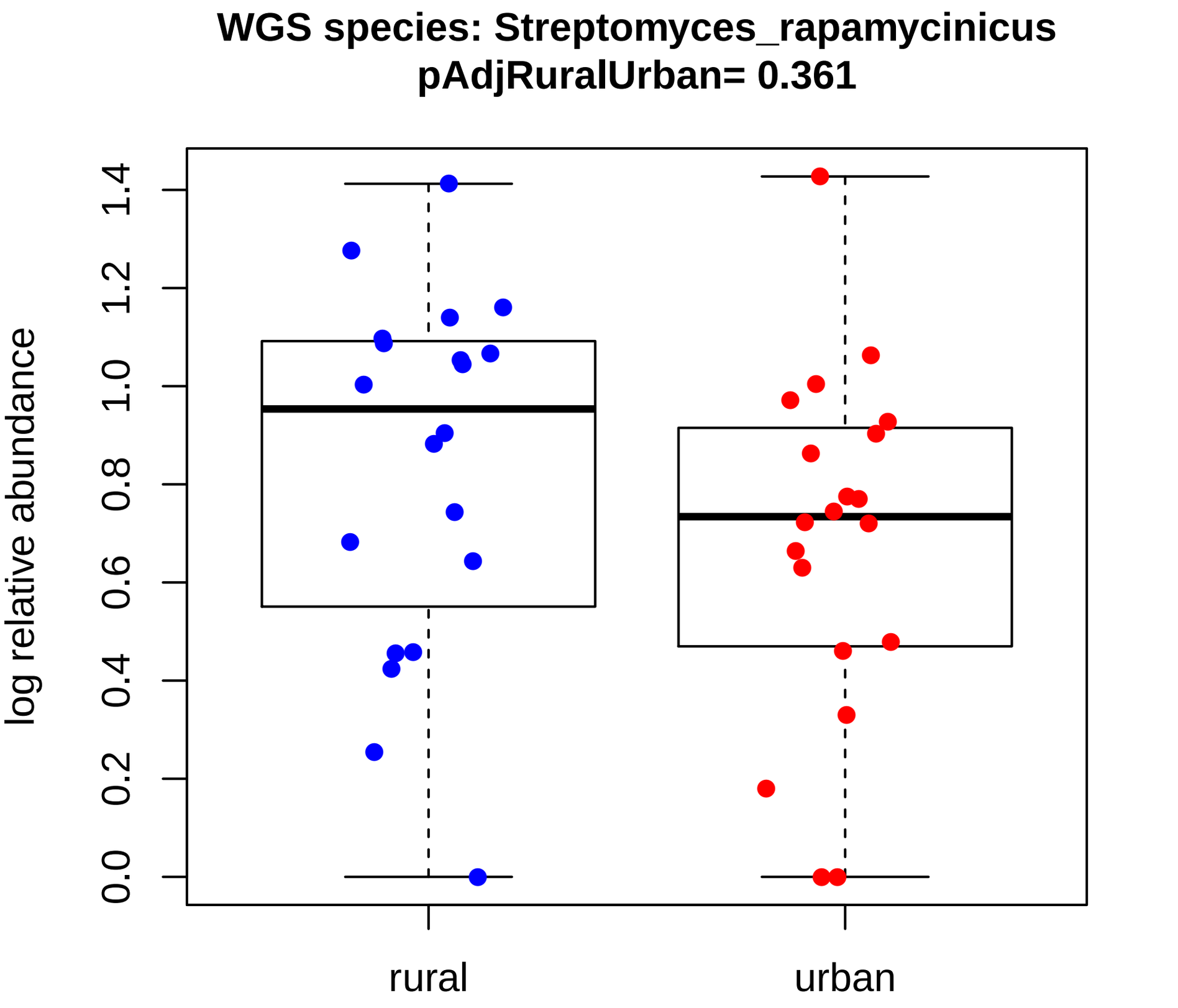

WGS species: Brevundimonas_subvibrioides
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

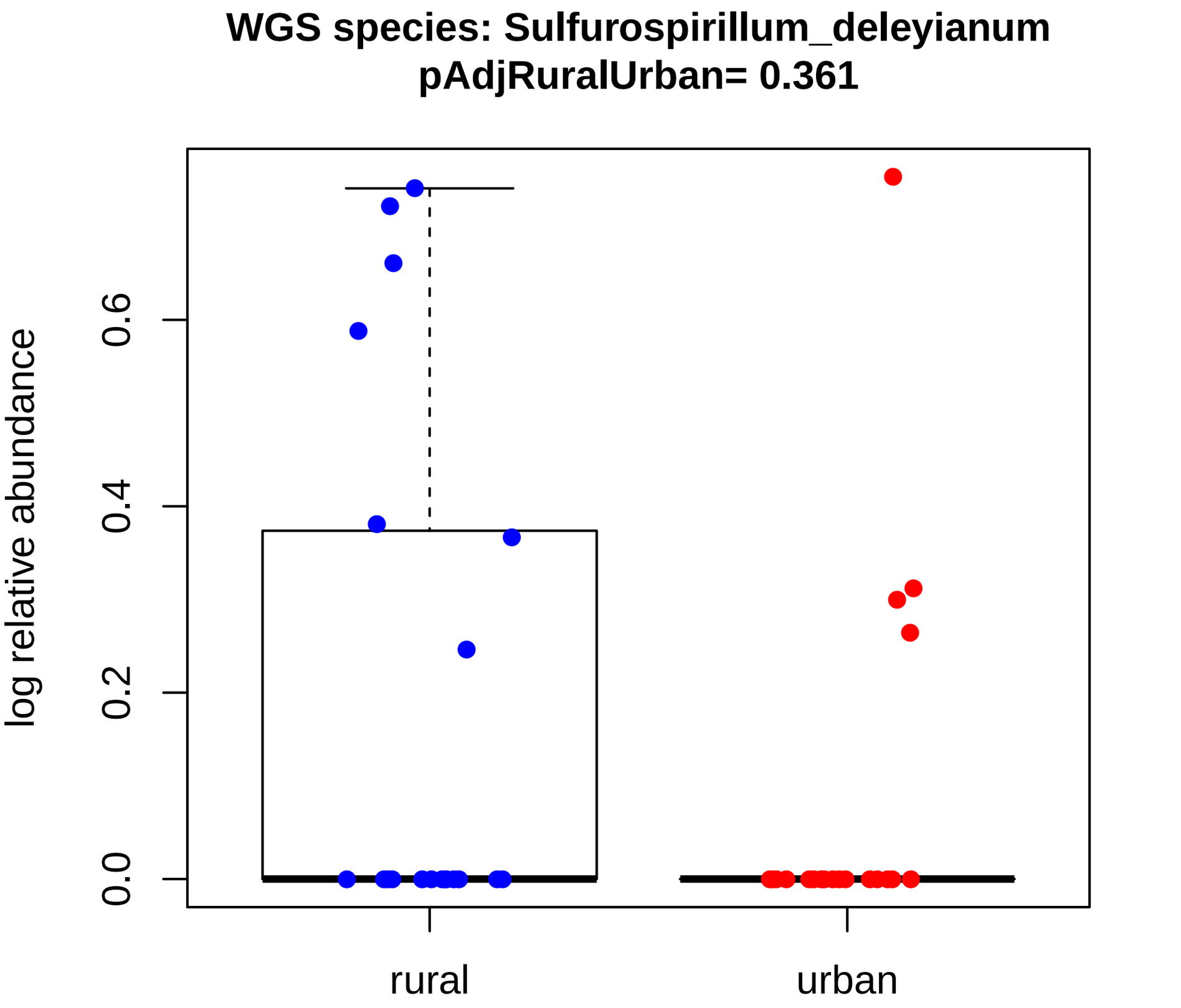

WGS species: Acinetobacter_oleivorans
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

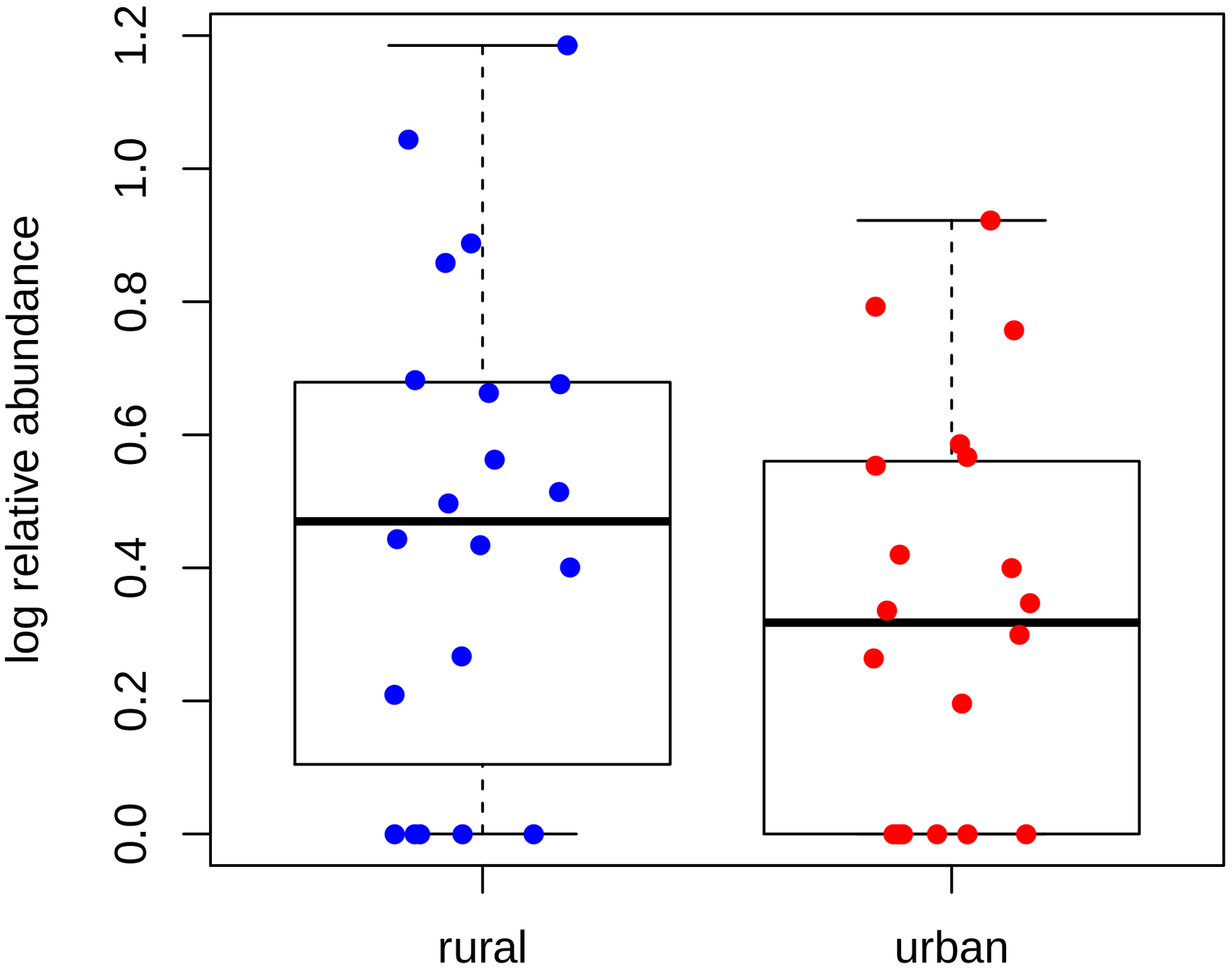

WGS species: Bartonella_tribocorum
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

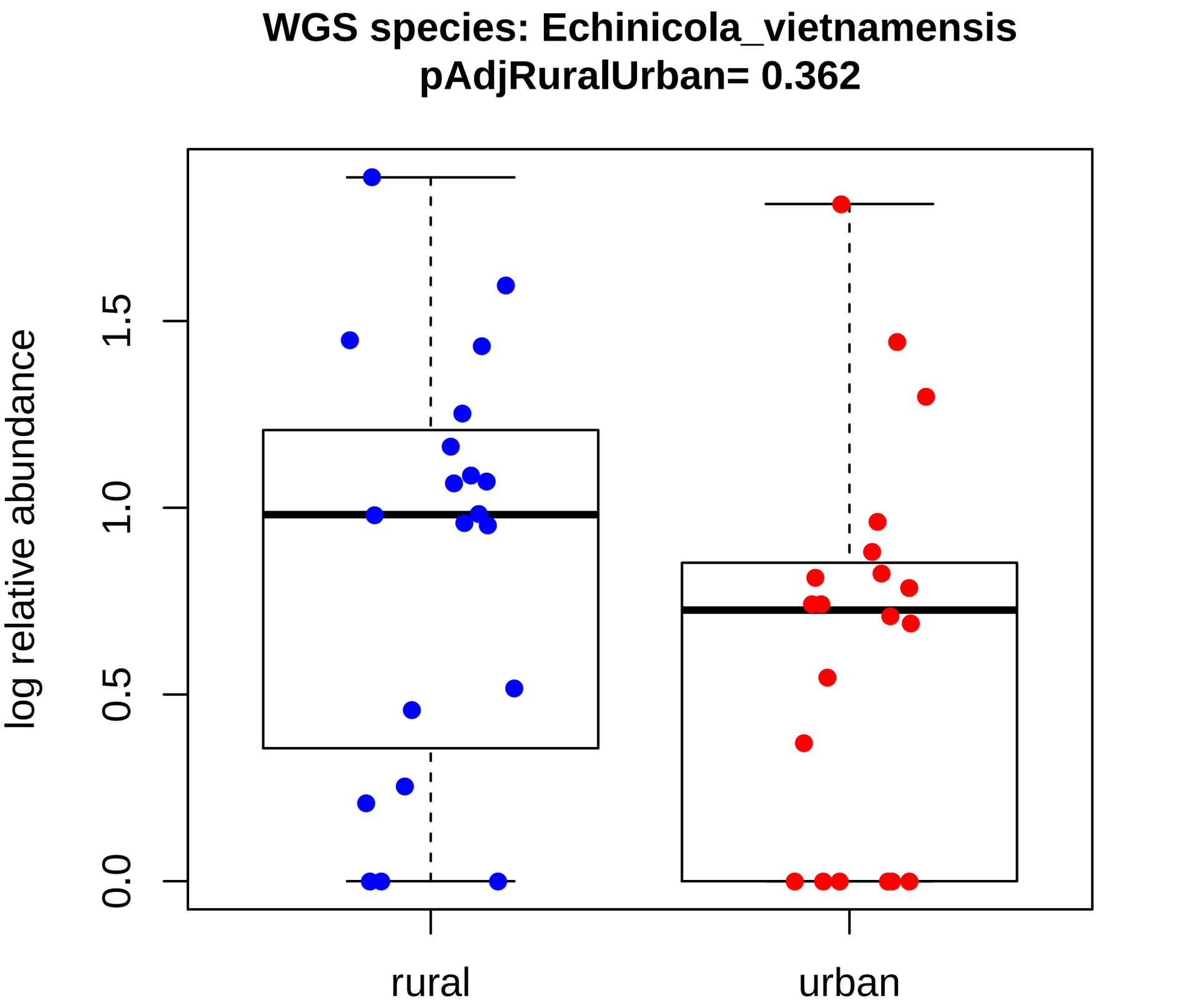

WGS species: Adlercreutzia_equolifaciens
pAdjRuralUrban= 0.361
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

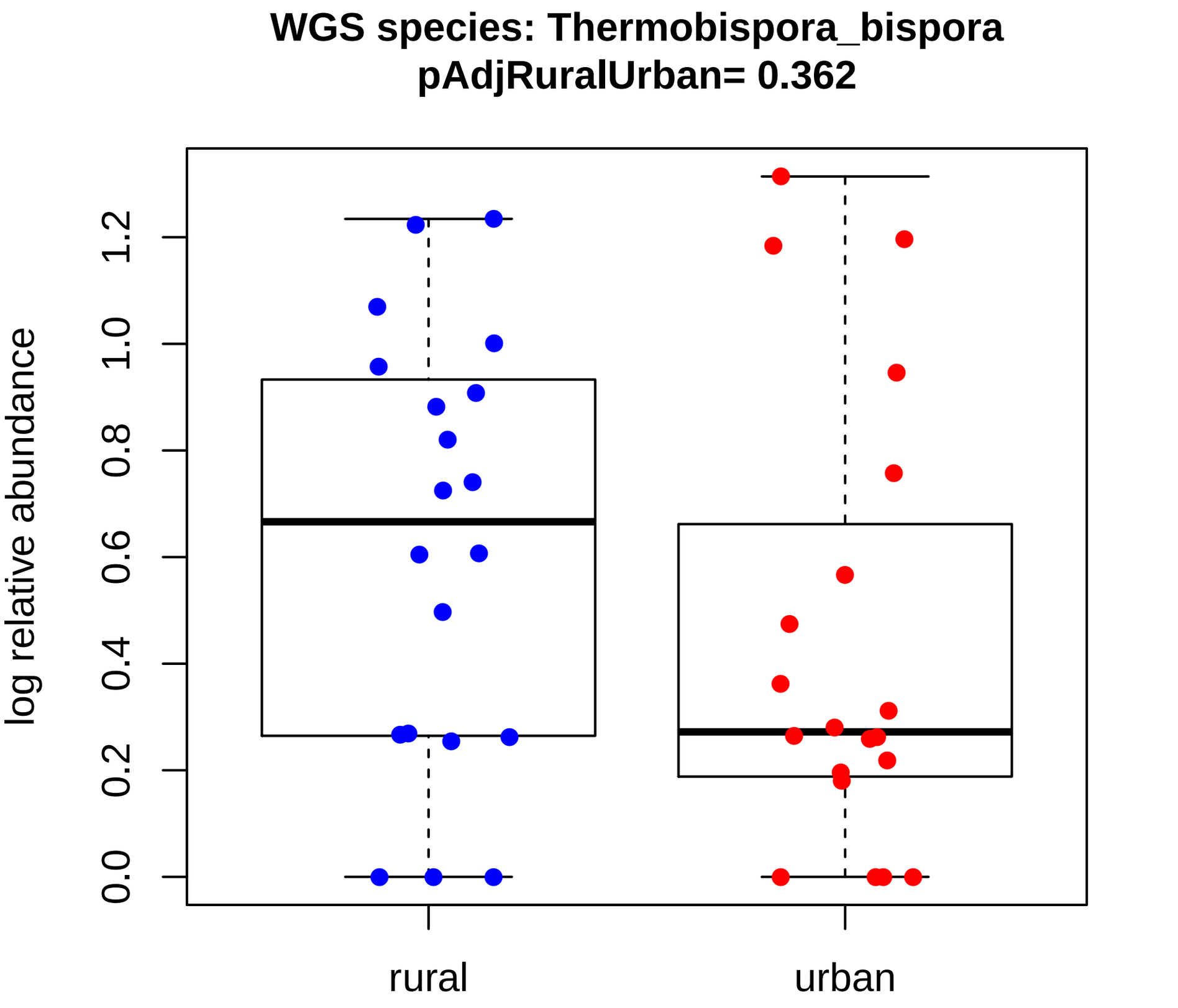

WGS species: Dinoroseobacter_shibae
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

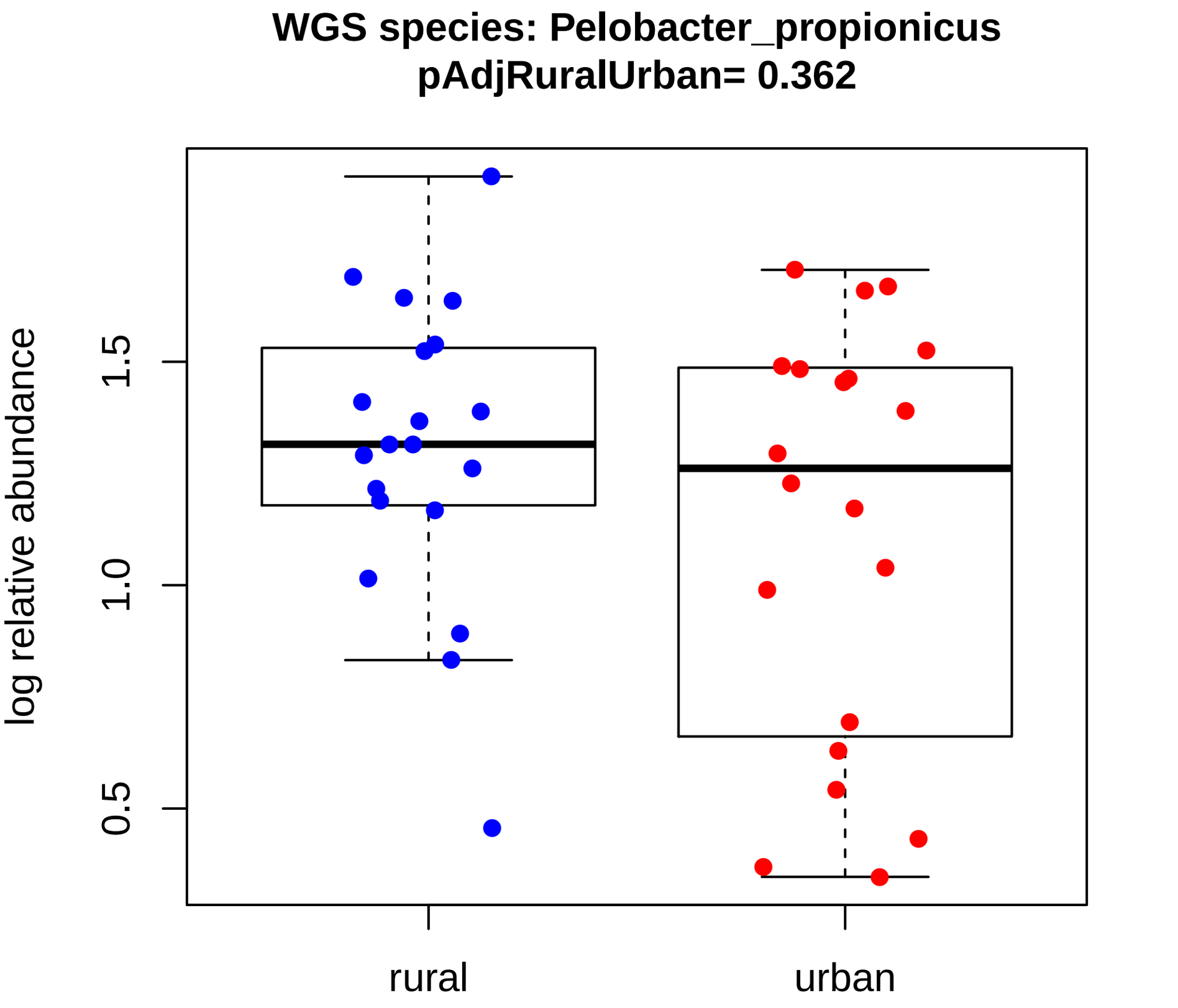

WGS species: Streptomyces_rapamycinicus
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

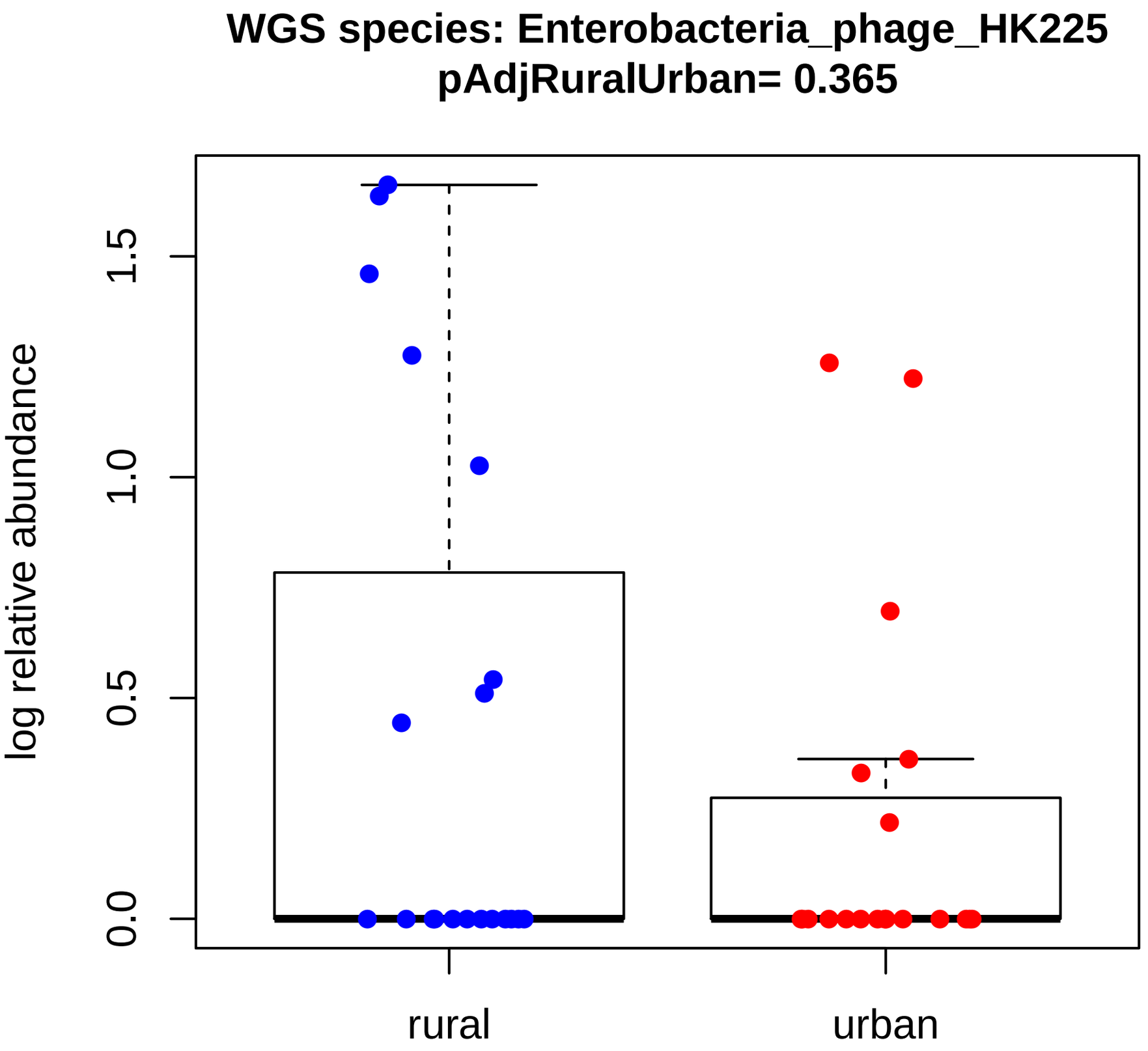

WGS species: Sulfurospirillum_deleyianum
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

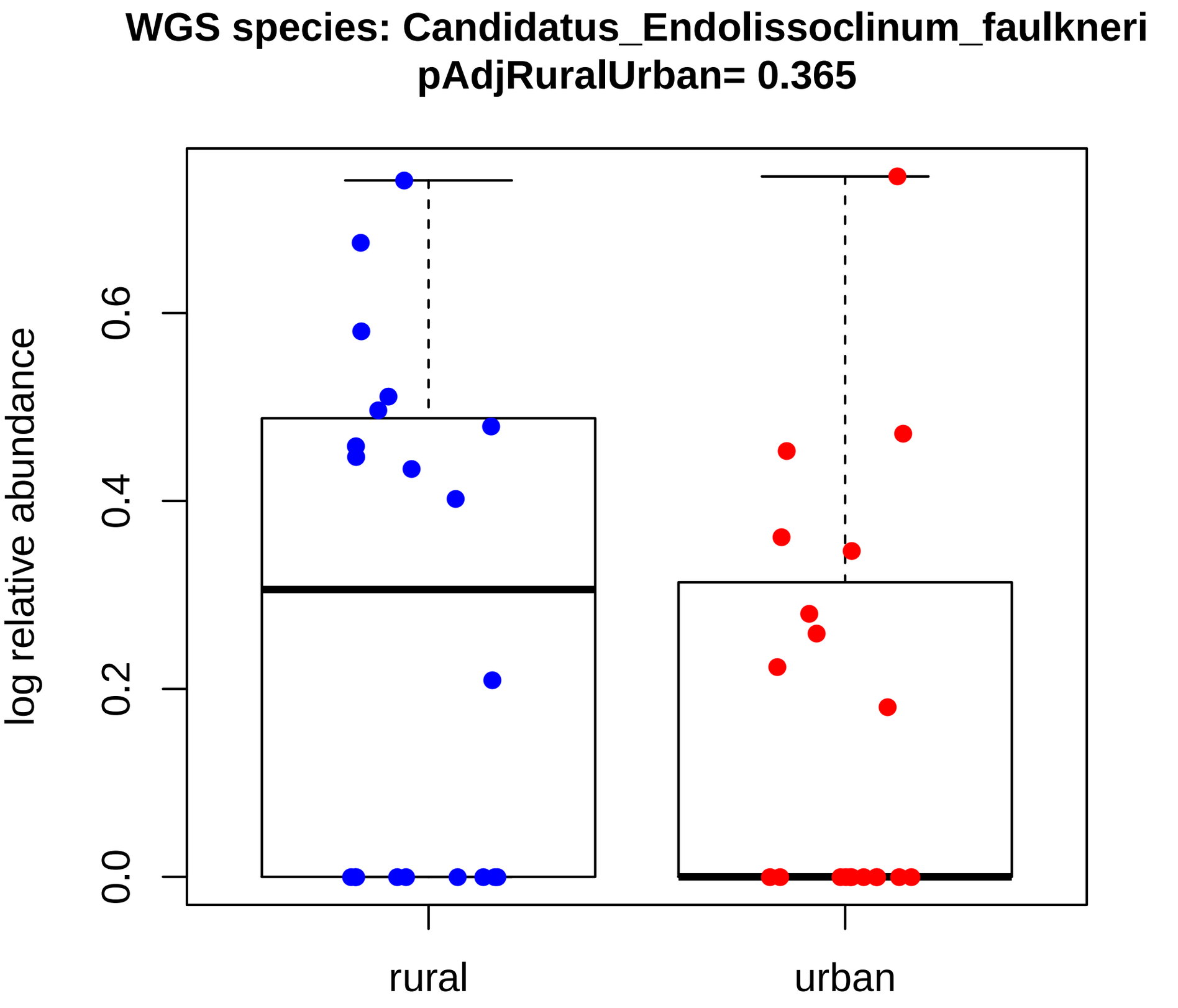

WGS species: Acidithiobacillus_ferrooxidans
pAdjRuralUrban= 0.361
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

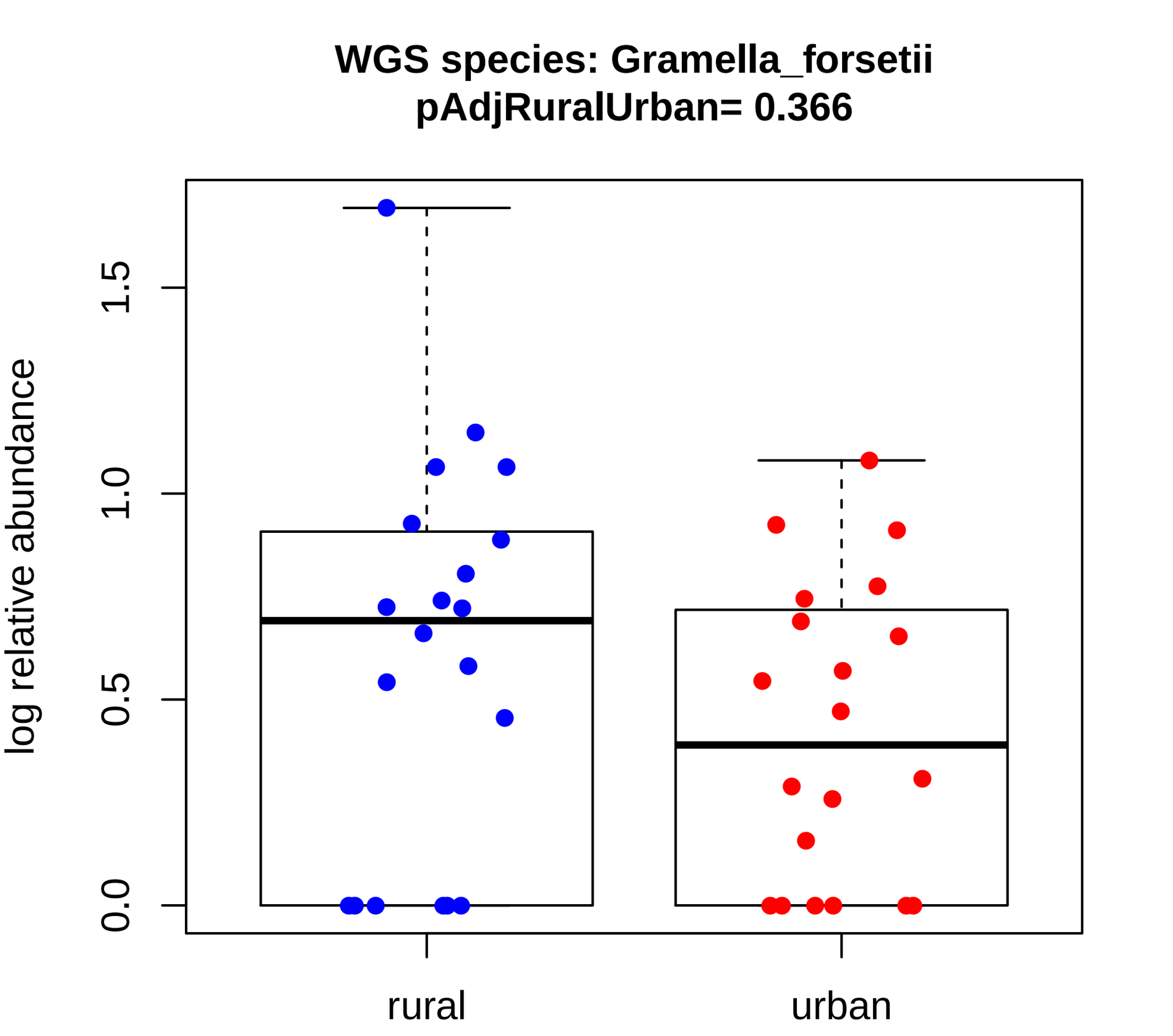

WGS species: Echinicola_vietnamensis
pAdjRuralUrban= 0.362
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

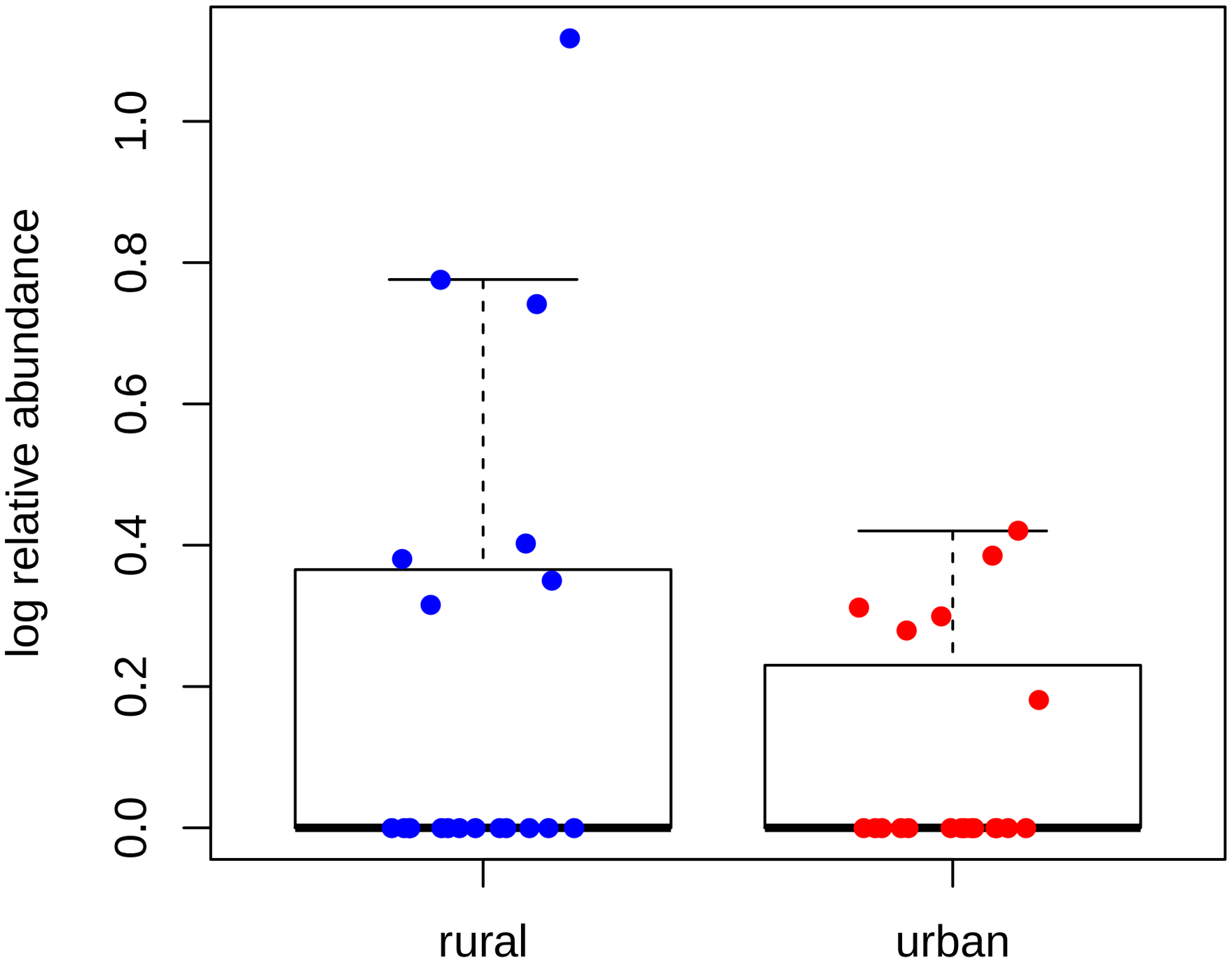

WGS species: Thermobispora_bispora
pAdjRuralUrban= 0.362
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

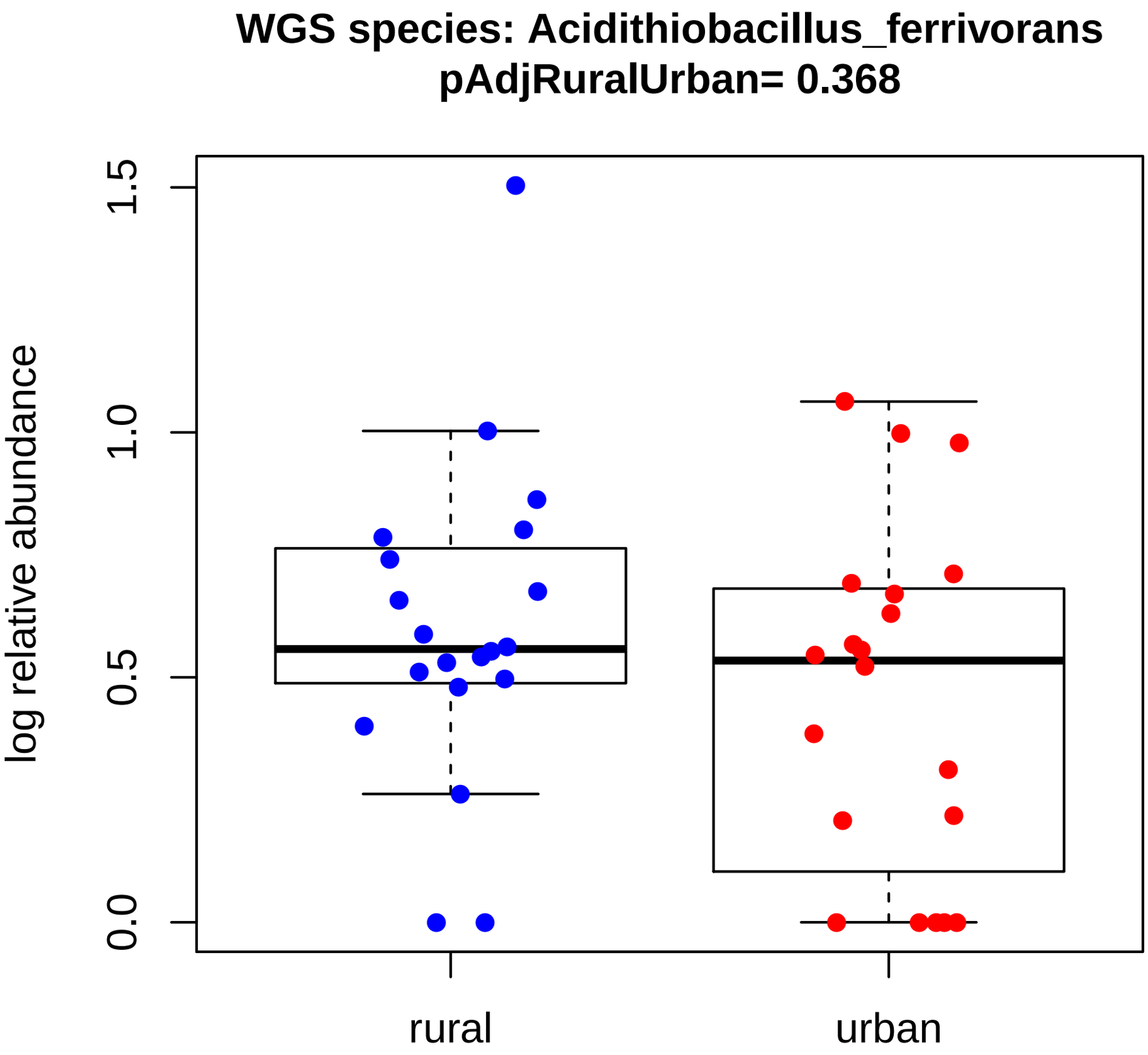

WGS species: Pelobacter_propionicus
pAdjRuralUrban= 0.362
log relative abundance
0.5
1.0
1.5
rural
urban

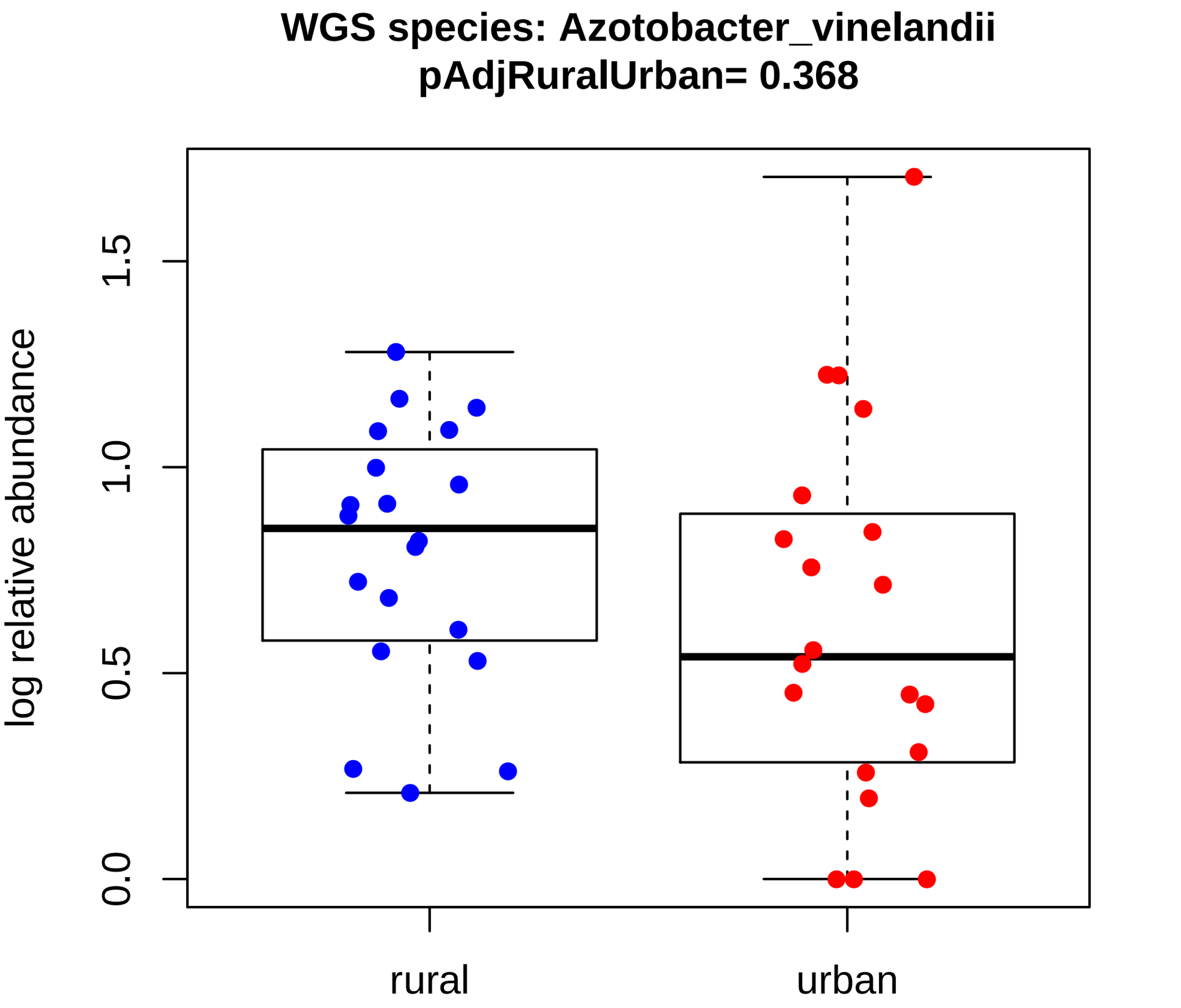

WGS species: Enterobacteria_phage_HK225
pAdjRuralUrban= 0.365
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

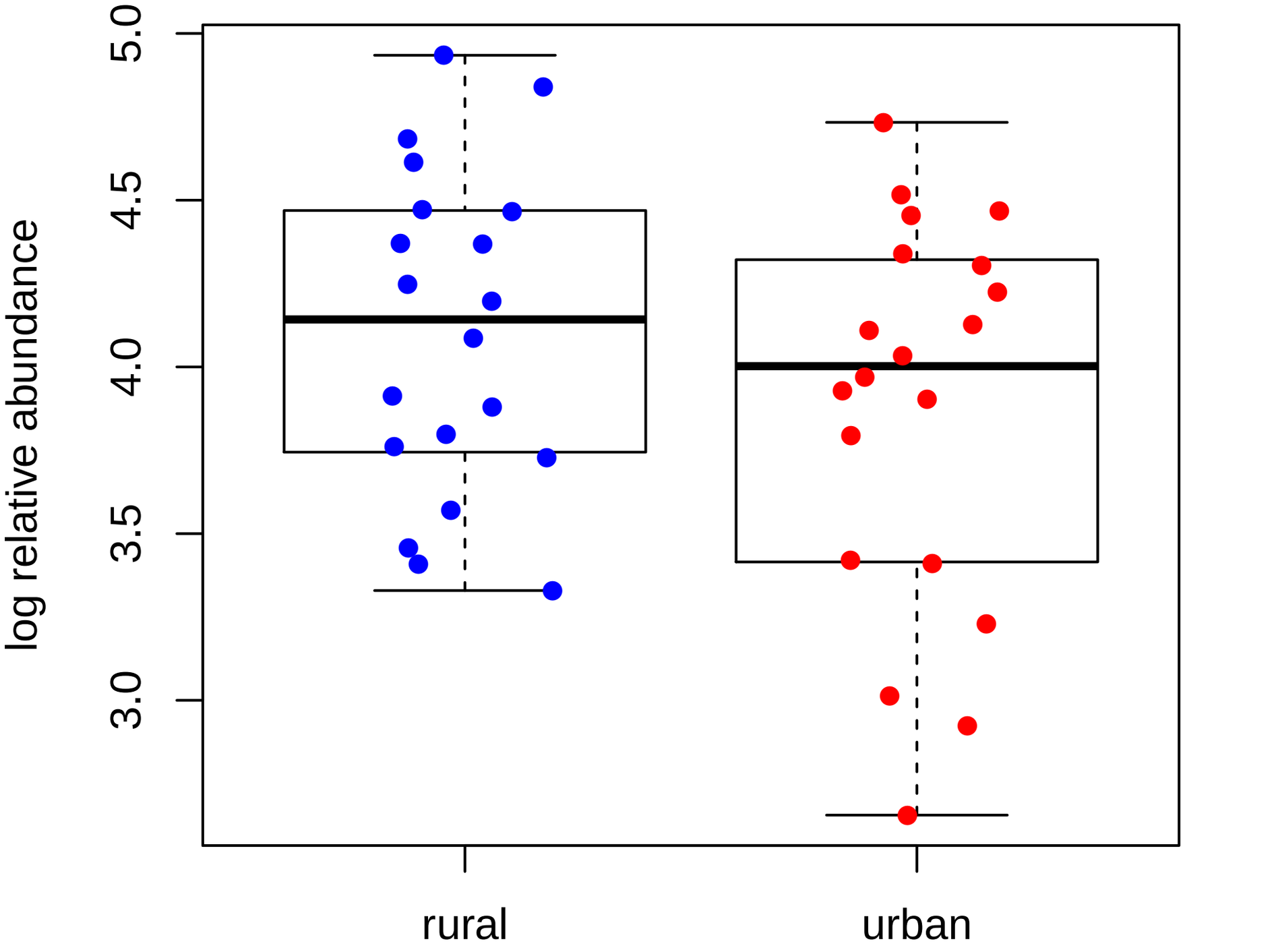

WGS species: Candidatus_Endolissoclinum_faulkneri
pAdjRuralUrban= 0.365
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

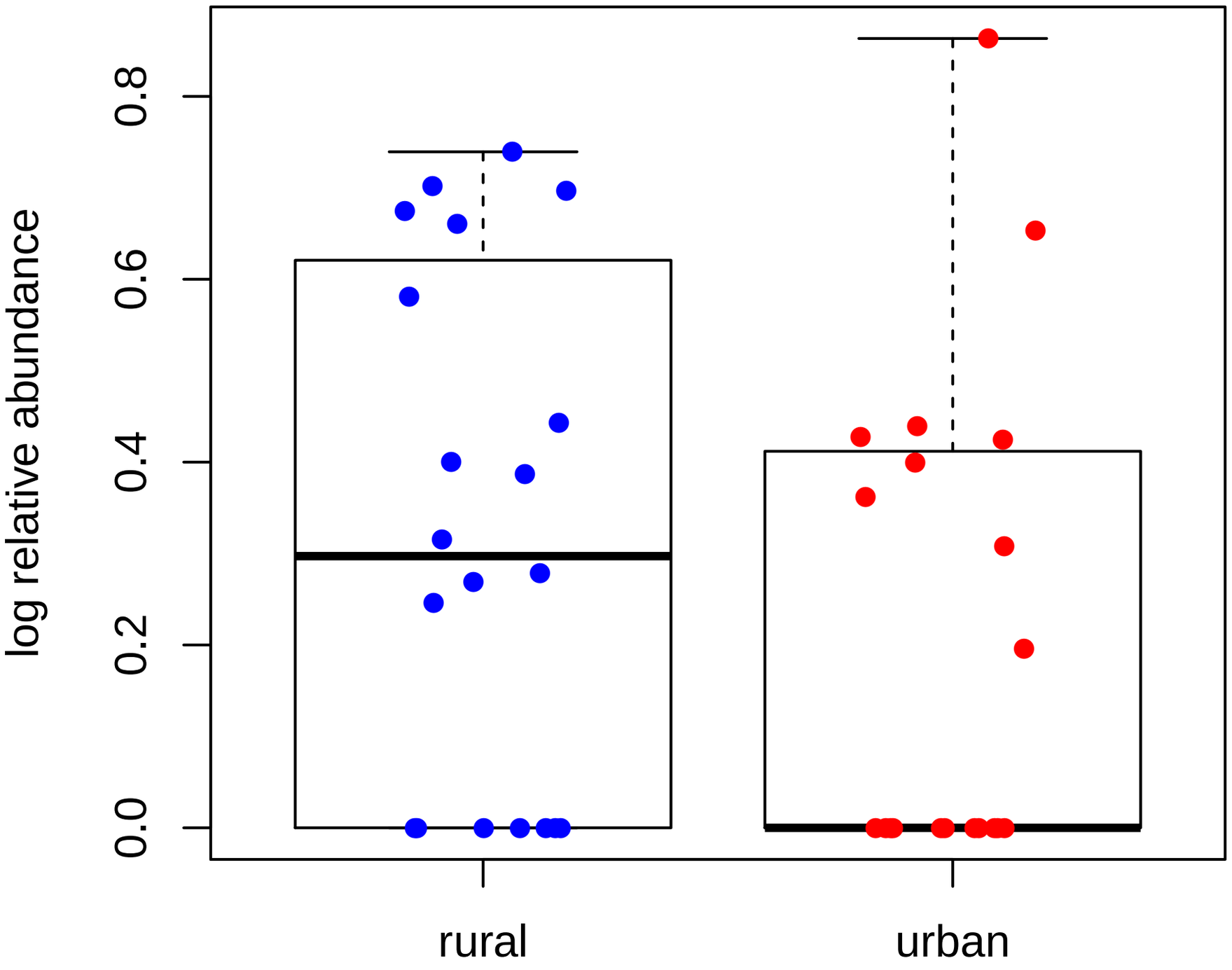

WGS species: Gramella_forsetii
pAdjRuralUrban= 0.366
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

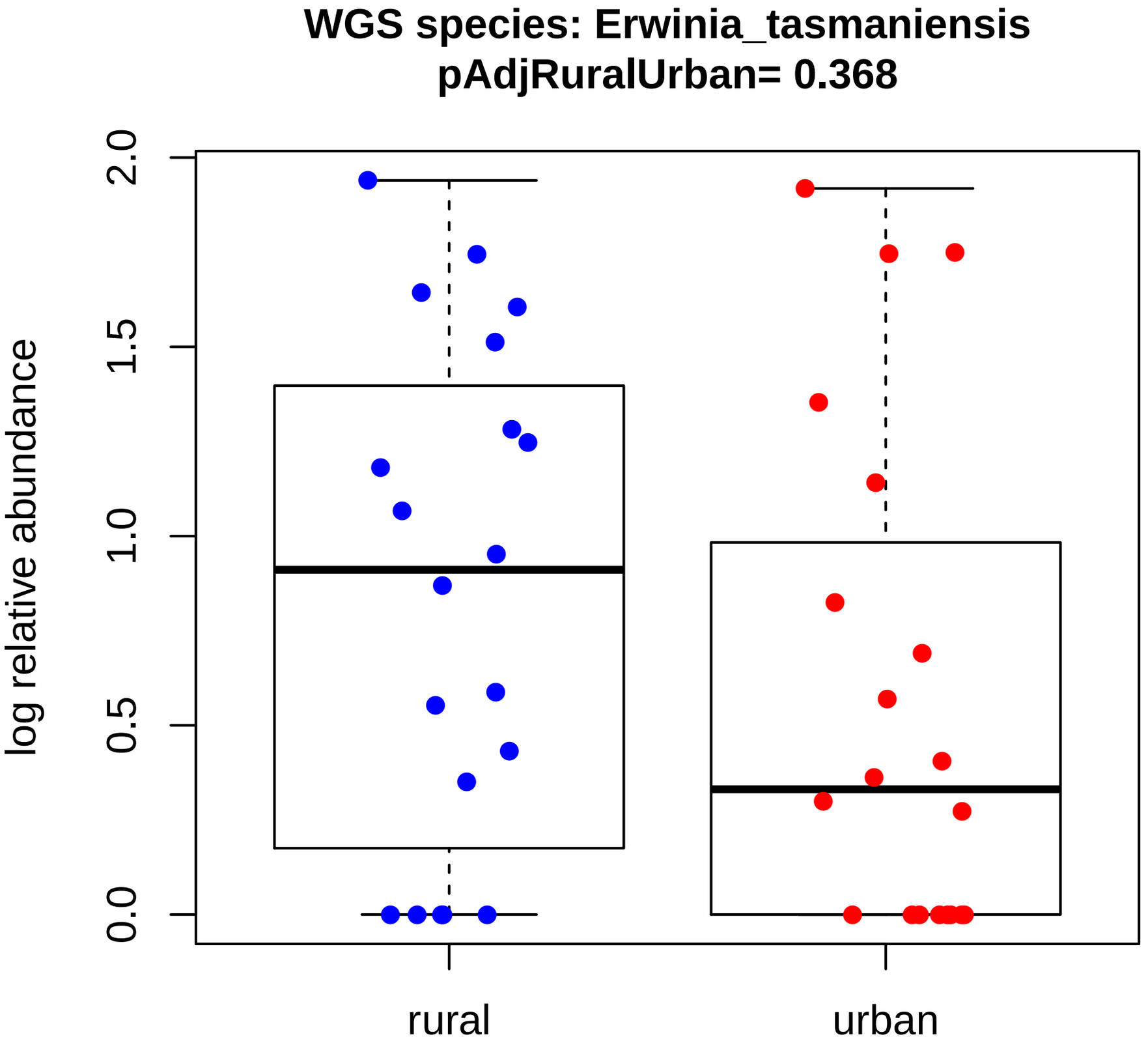

WGS species: Acinetobacter_sp._ADP1
pAdjRuralUrban= 0.367
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

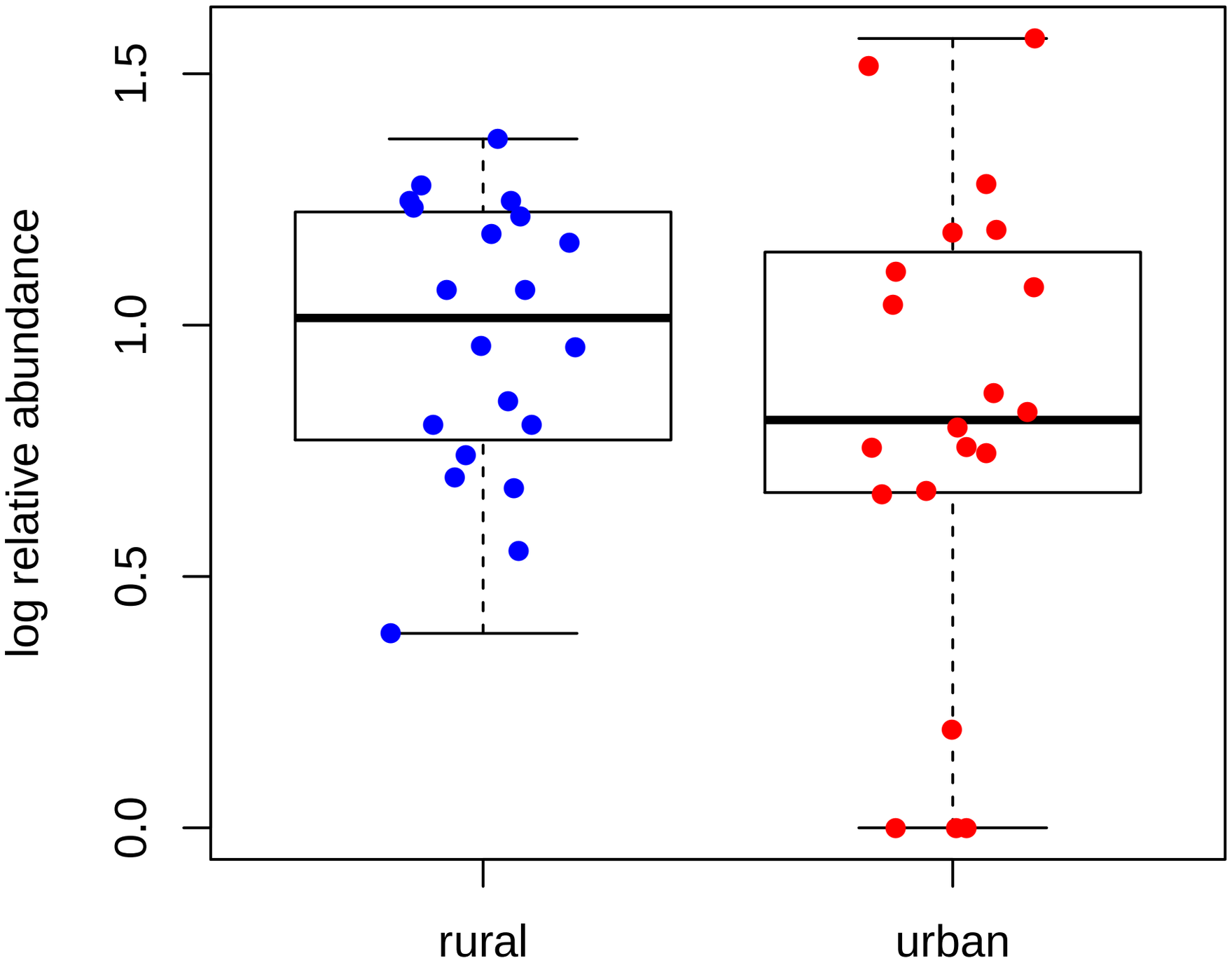

WGS species: Acidithiobacillus_ferrivorans
pAdjRuralUrban= 0.368
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

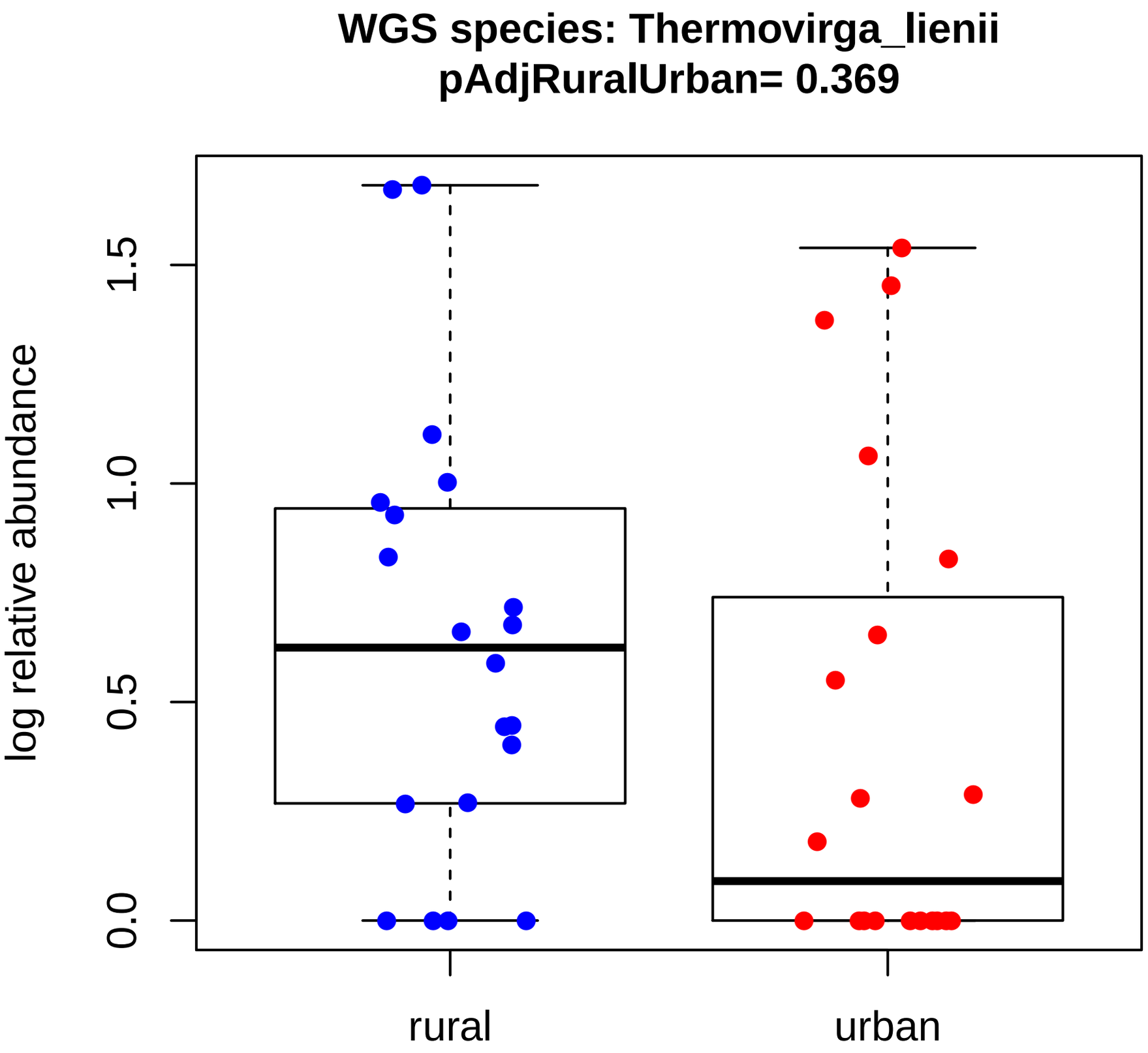

WGS species: Azotobacter_vinelandii
pAdjRuralUrban= 0.368
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

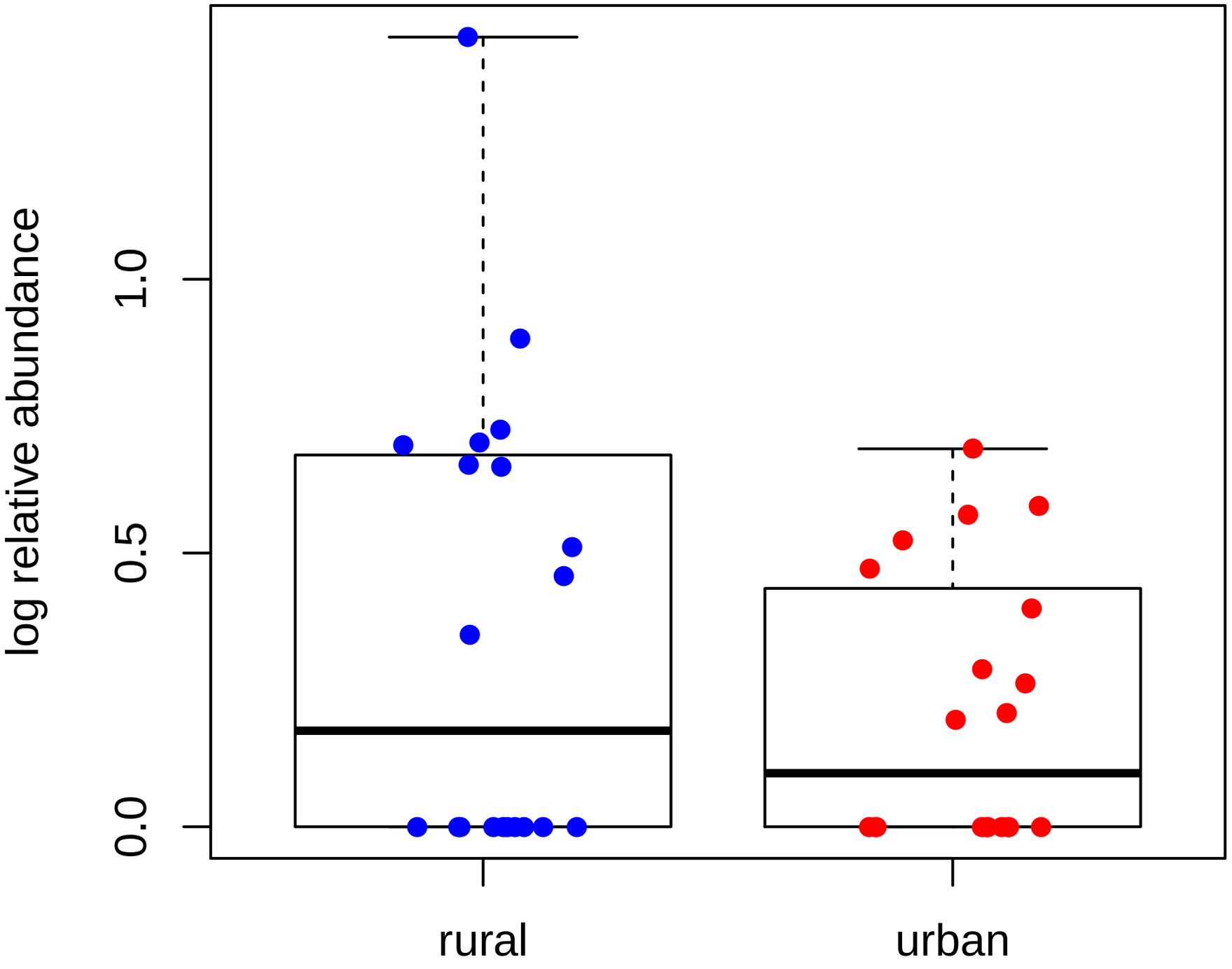

WGS species: butyrate.producing_bacterium_SSC.2
pAdjRuralUrban= 0.368
log relative abundance
5.0
4.5
4.0
3.5
3.0
rural
urban

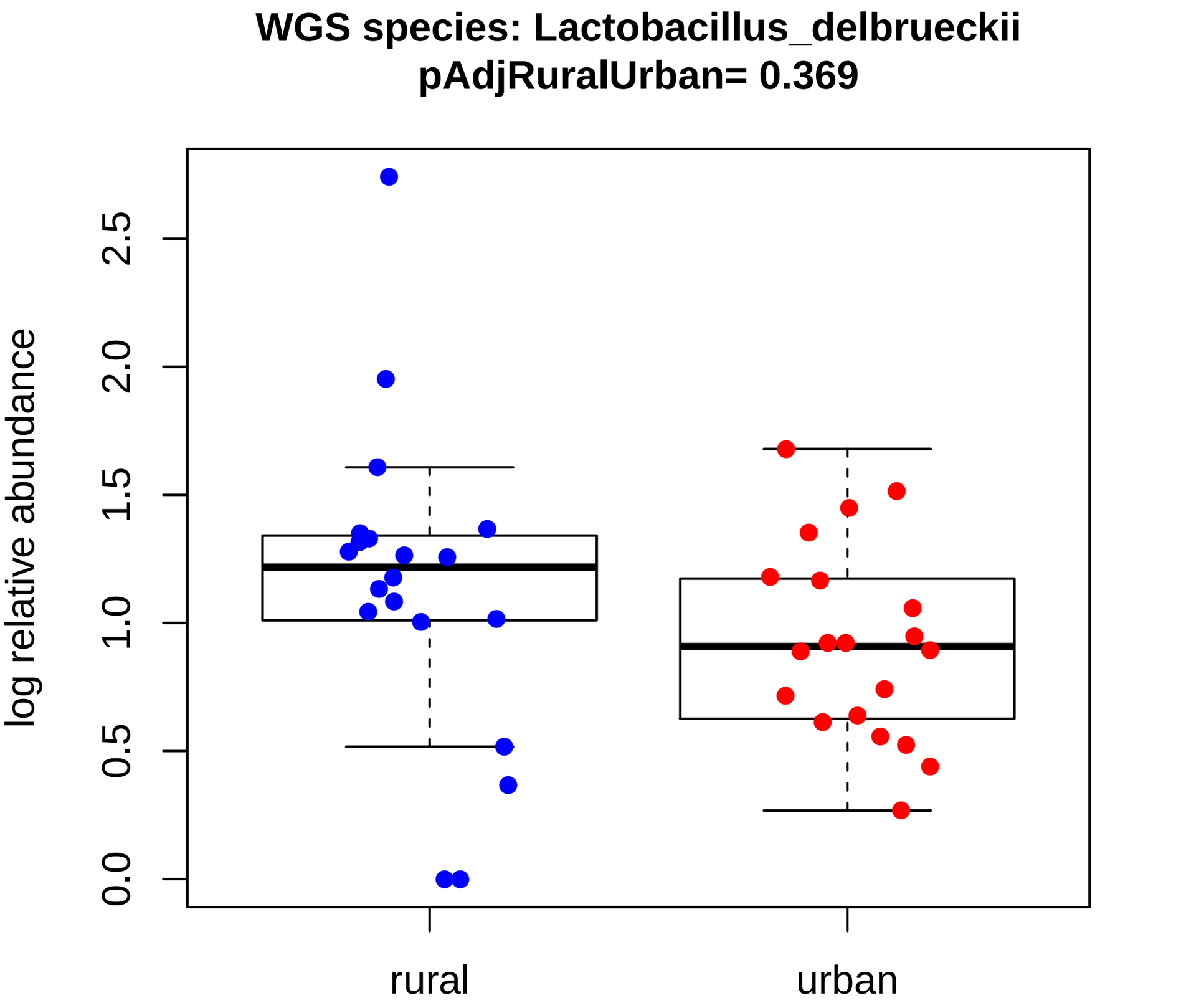

WGS species: Methylocella_silvestris
pAdjRuralUrban= 0.368
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

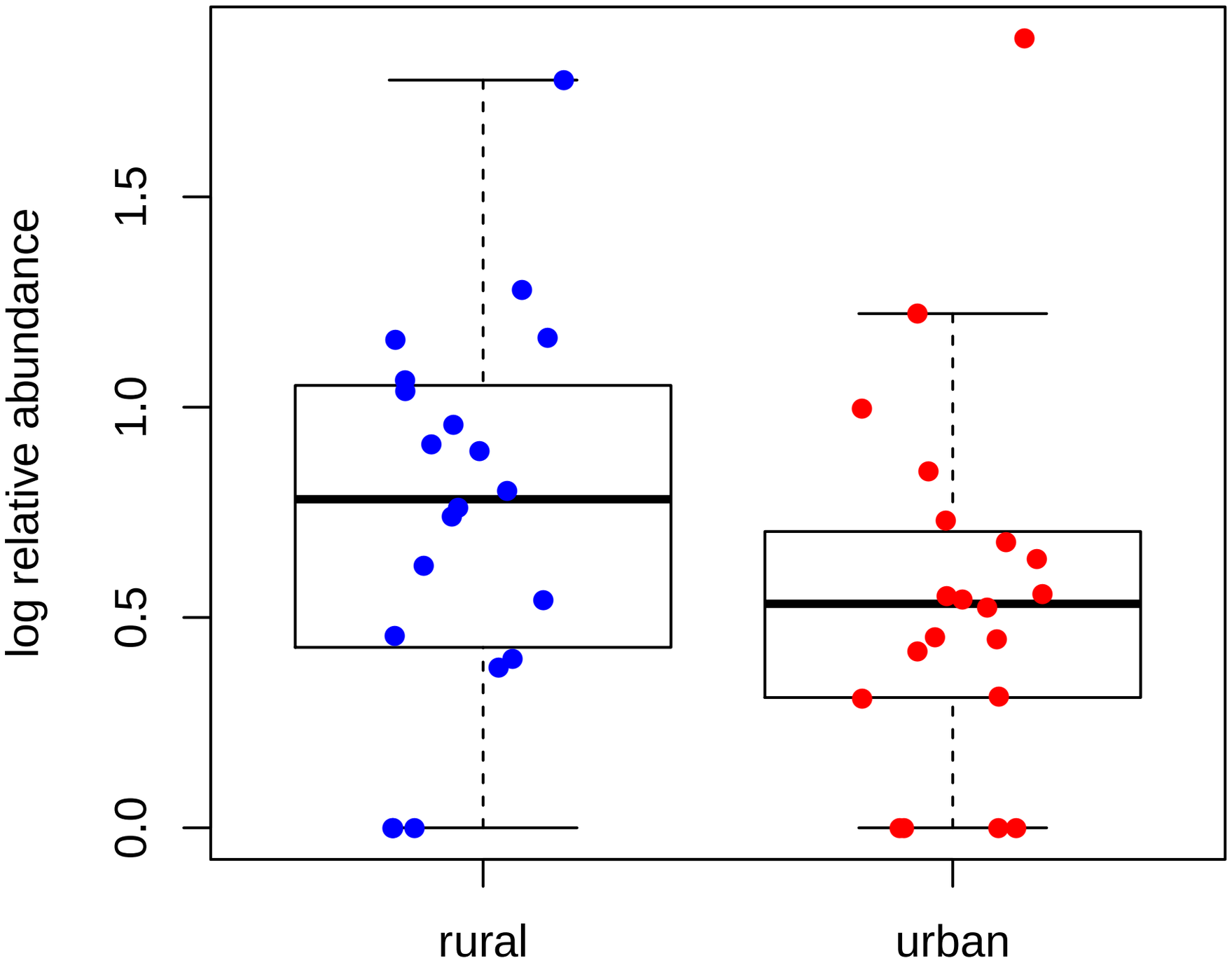

WGS species: Erwinia_tasmaniensis
pAdjRuralUrban= 0.368
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

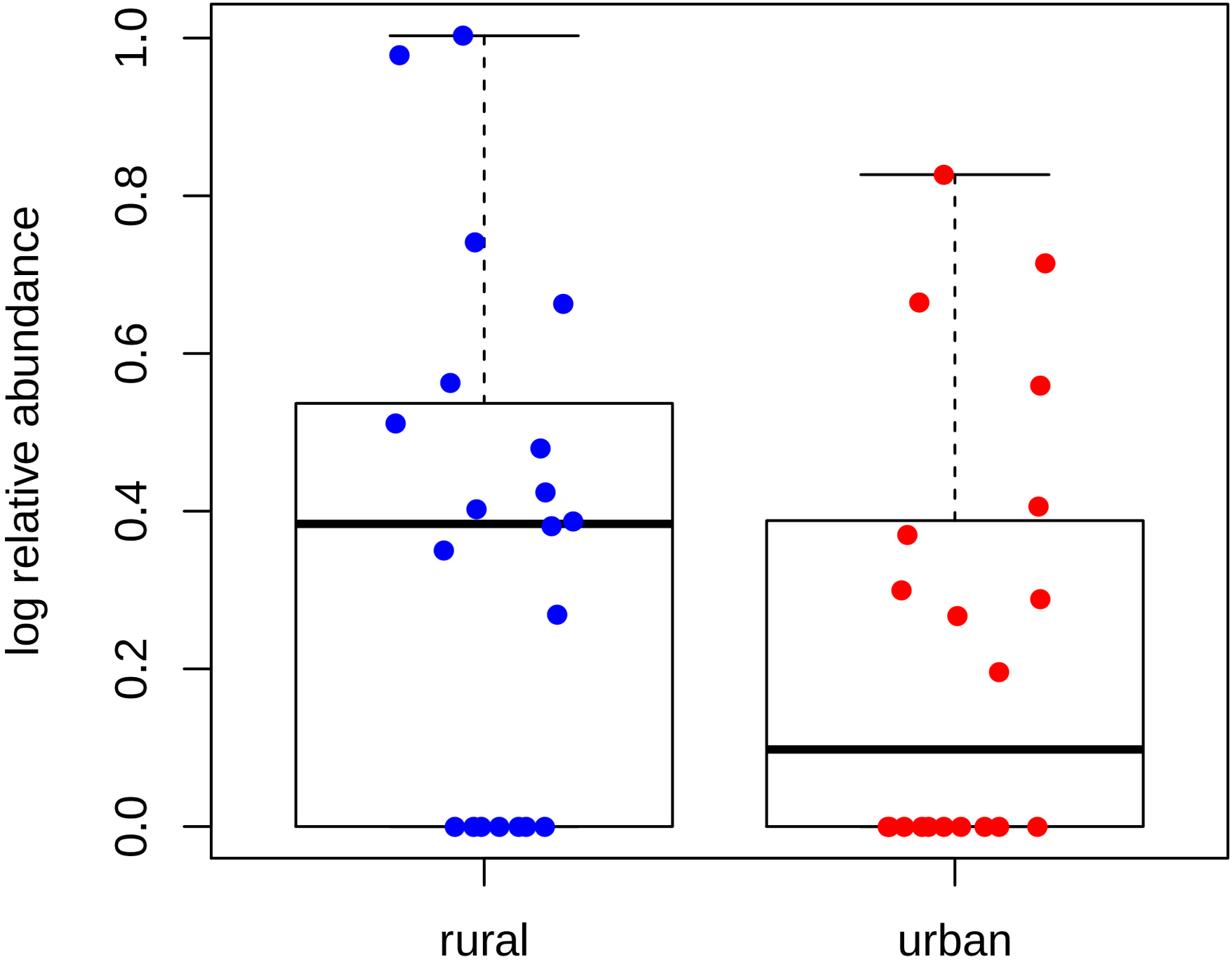

WGS species: Streptomyces_griseus
pAdjRuralUrban= 0.369
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

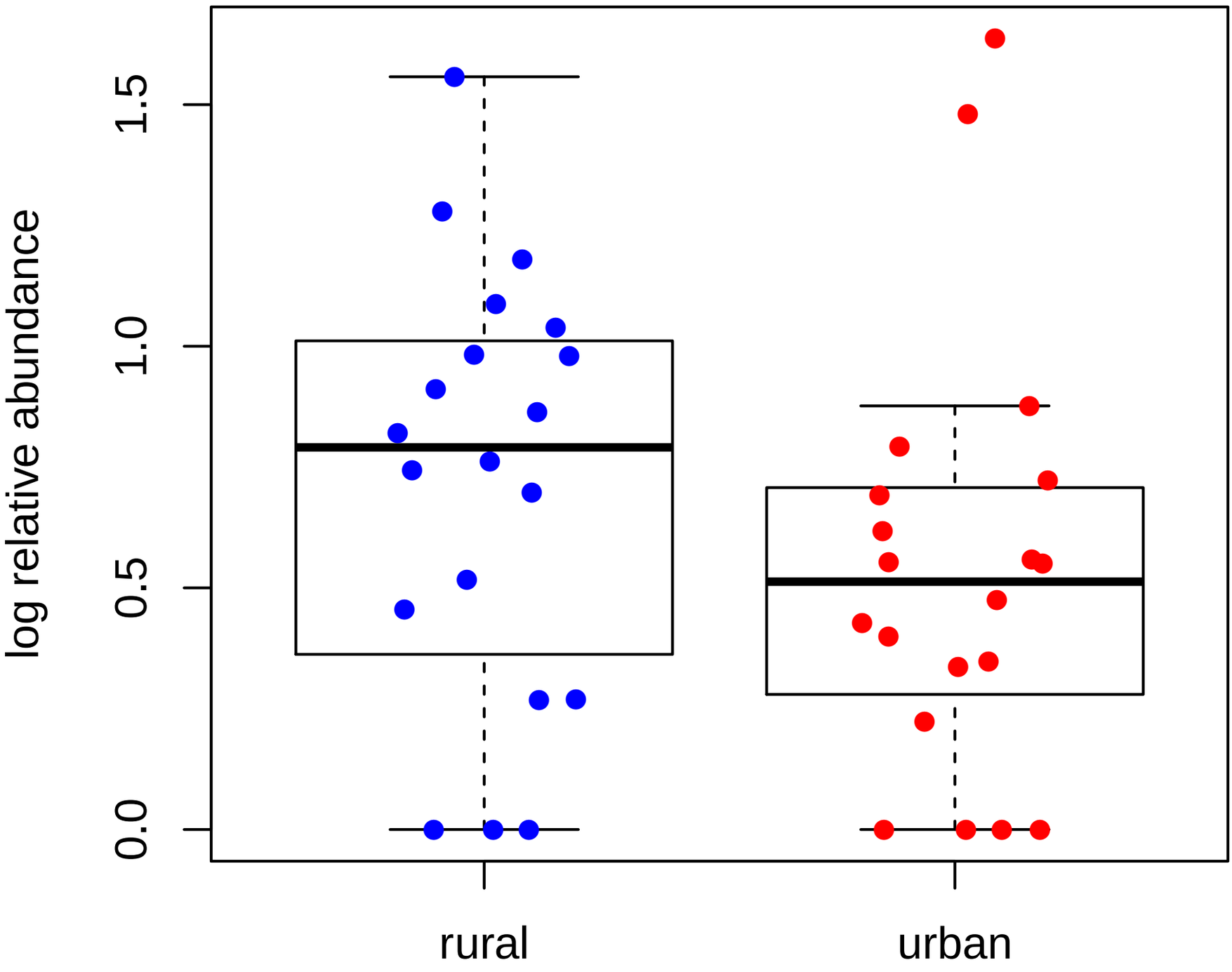

WGS species: Thermovirga_lienii
pAdjRuralUrban= 0.369
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

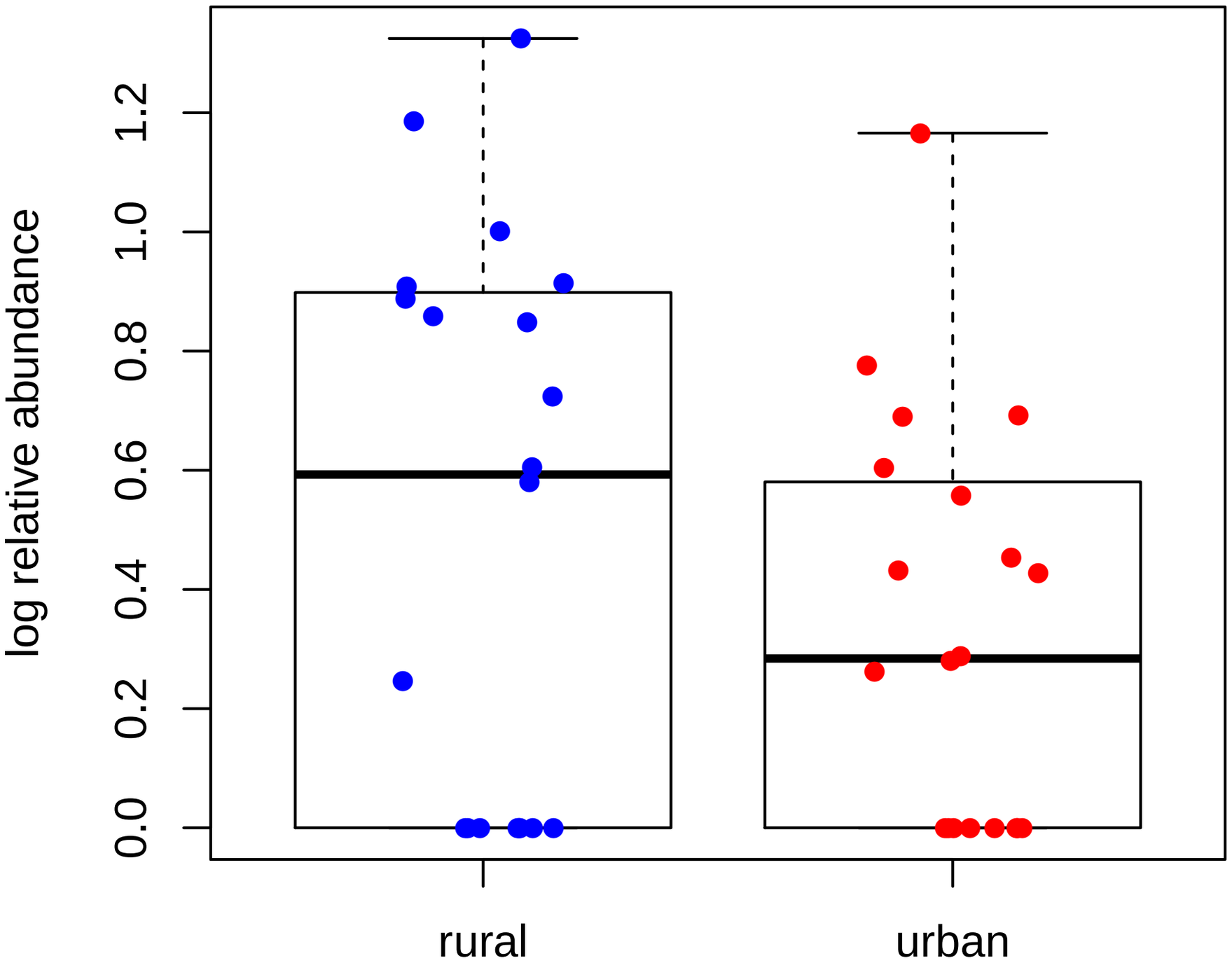

WGS species: Sphingomonas_wittichii
pAdjRuralUrban= 0.369
log relative abundance
0.0
0.5
1.0
rural
urban

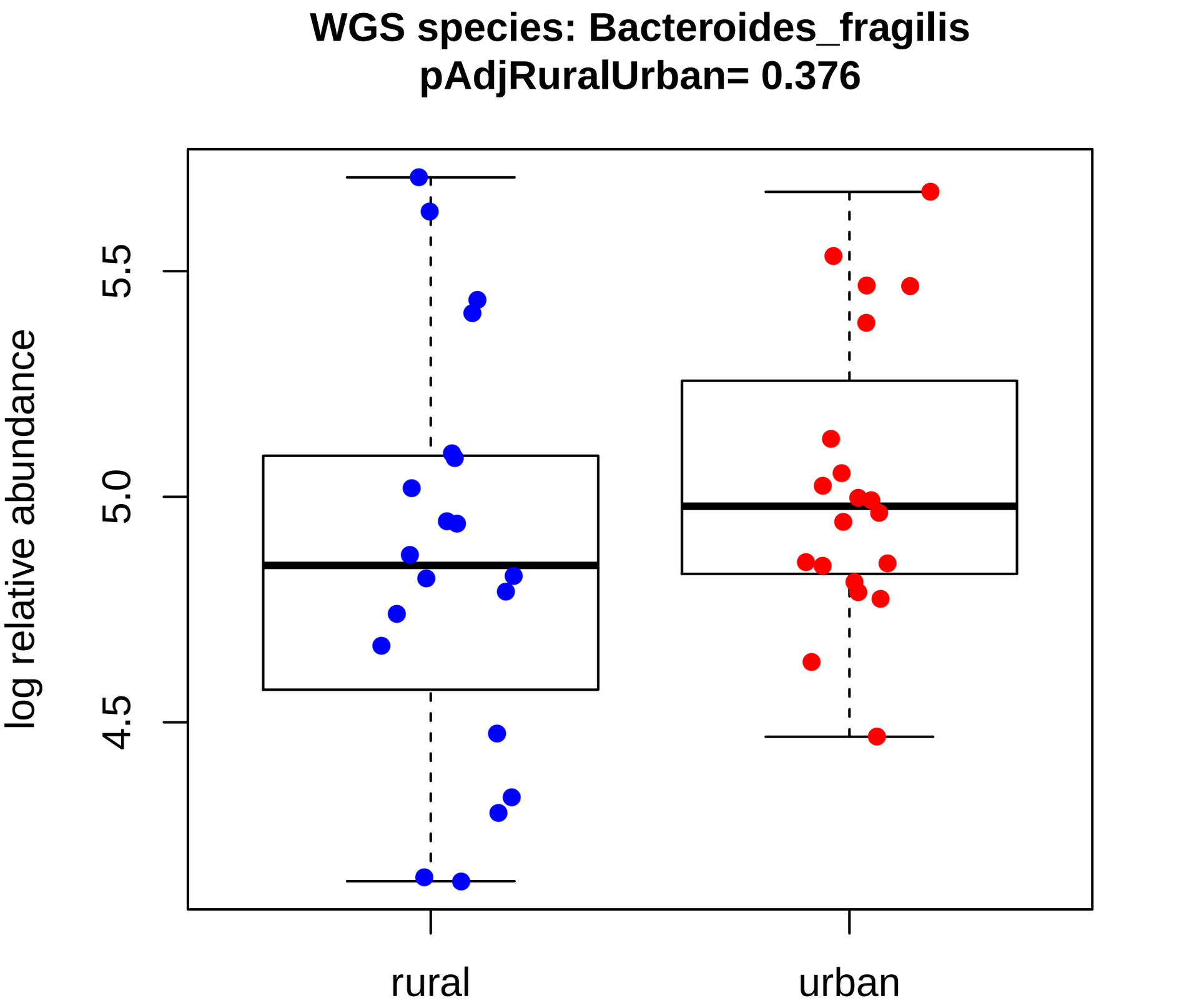

WGS species: Lactobacillus_delbrueckii
pAdjRuralUrban= 0.369
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

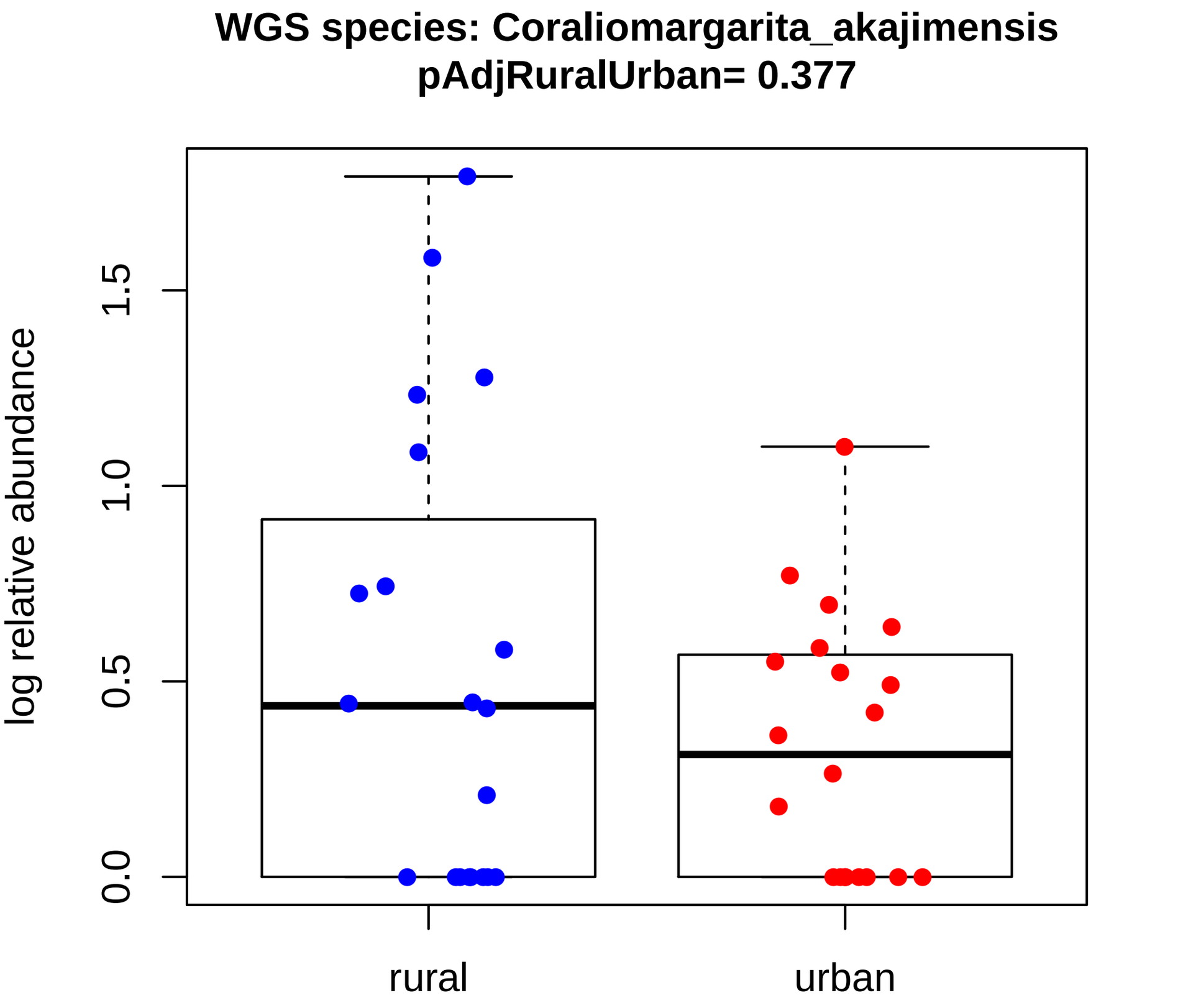

WGS species: Xanthomonas_albilineans
pAdjRuralUrban= 0.371
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

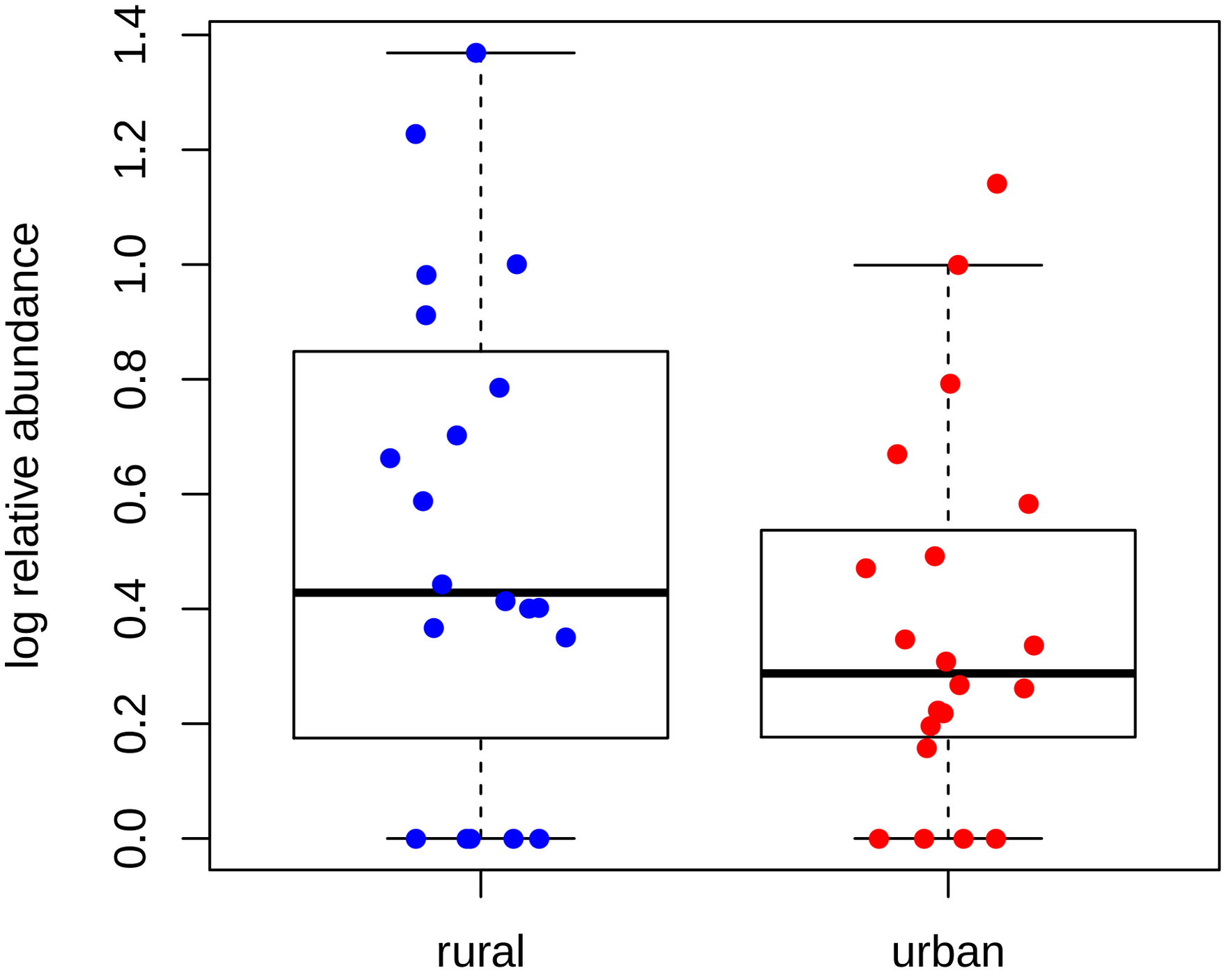

WGS species: Anabaena_cylindrica
pAdjRuralUrban= 0.371
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

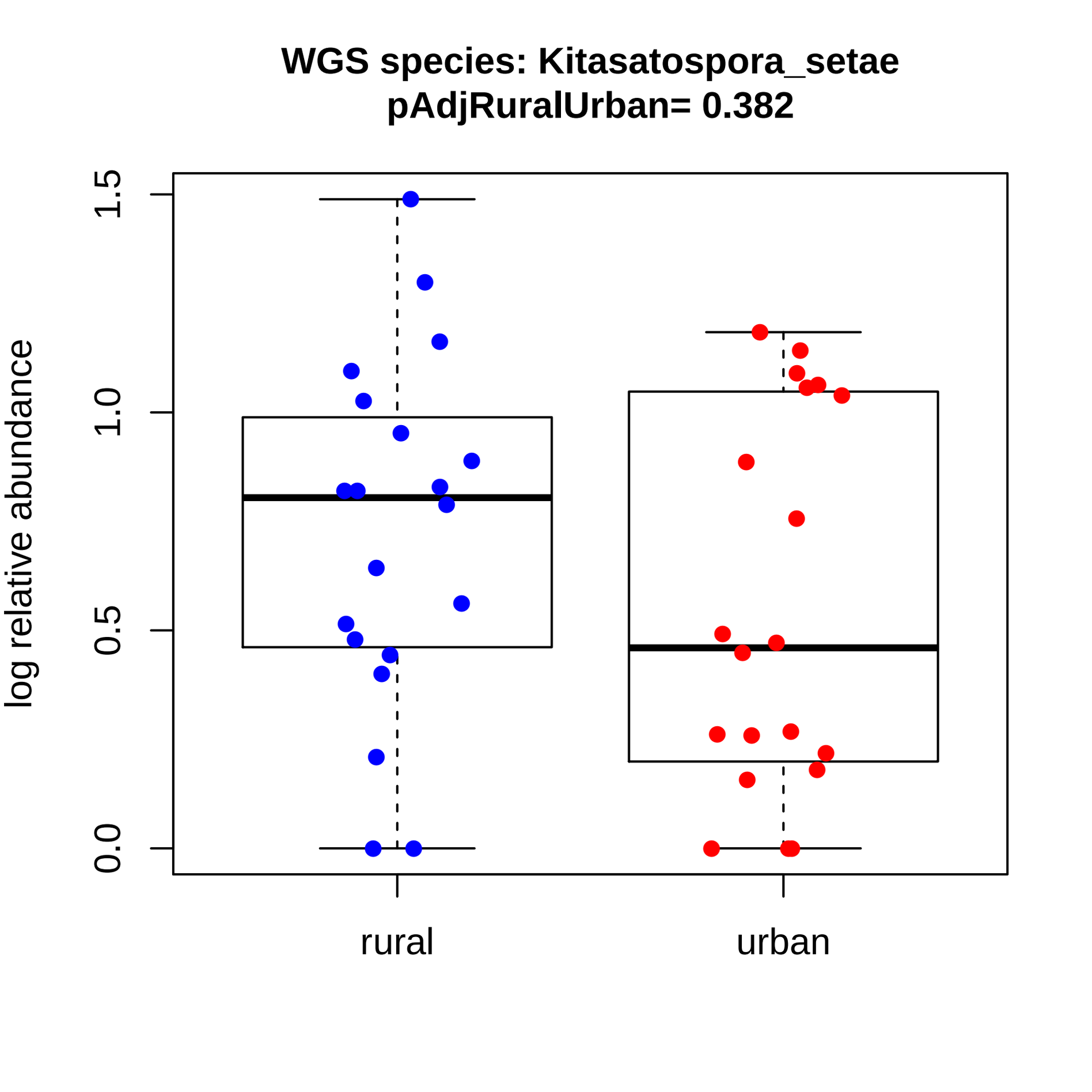

WGS species: Caldilinea_aerophila
pAdjRuralUrban= 0.372
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

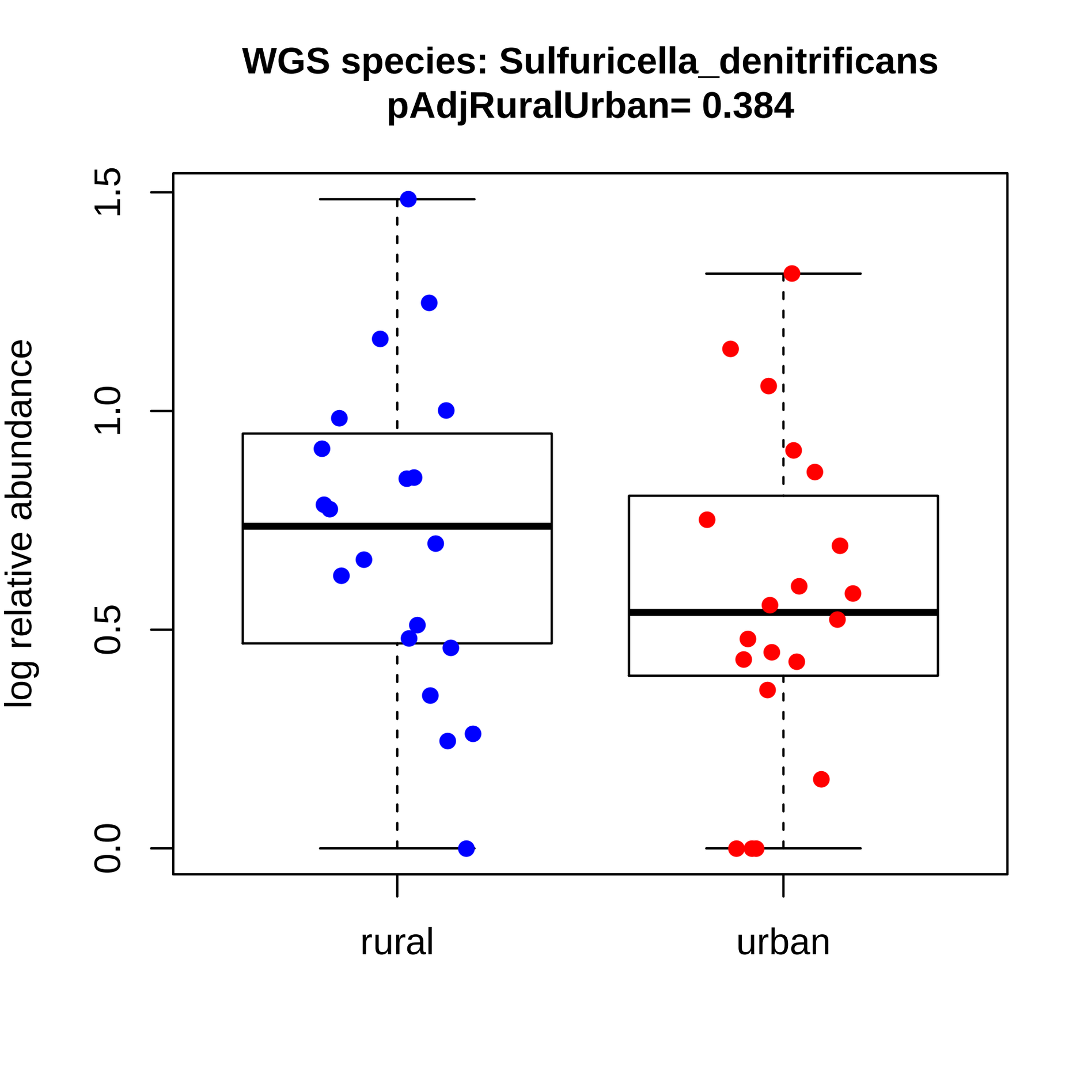

WGS species: Rhodococcus_opacus
pAdjRuralUrban= 0.374
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

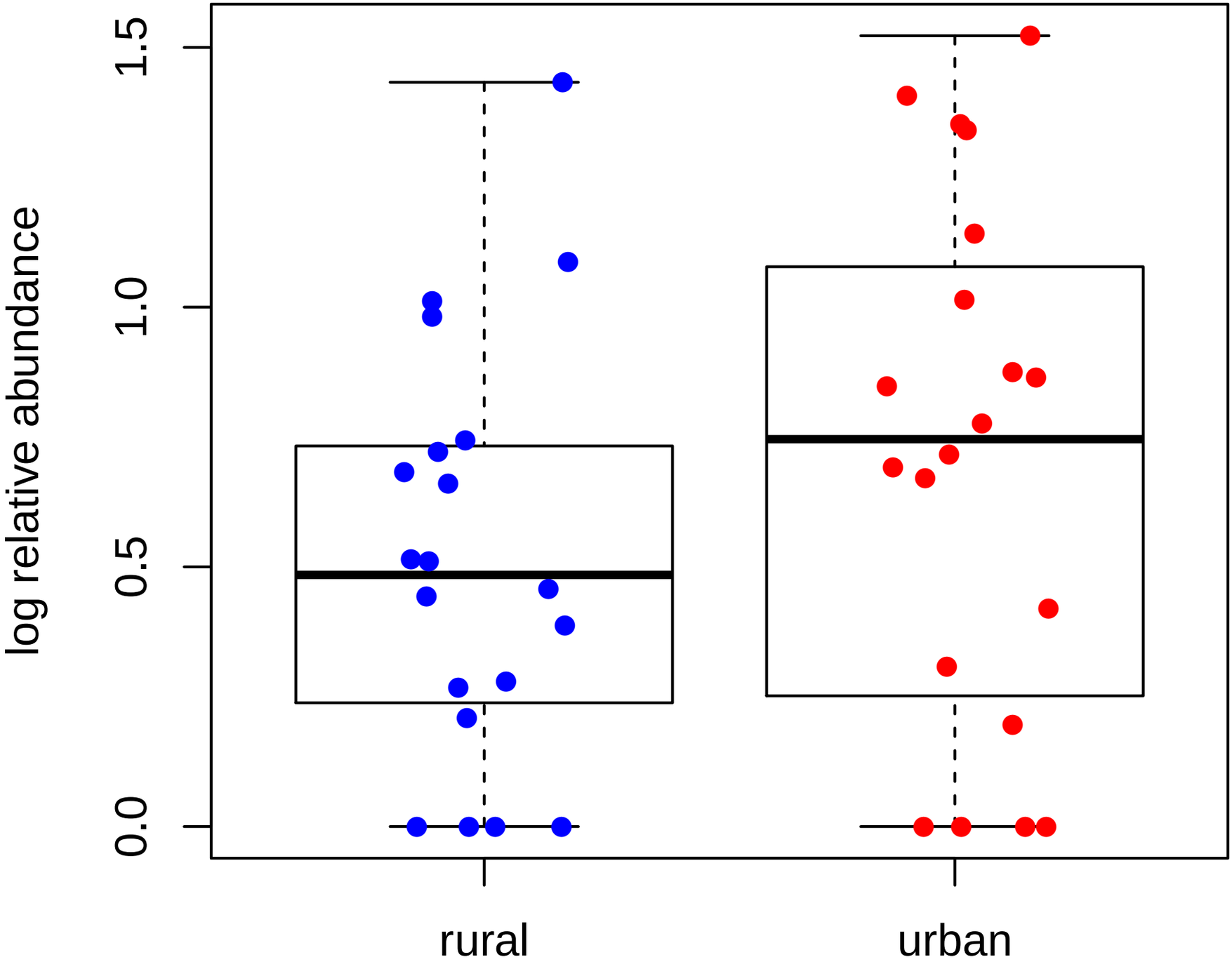

WGS species: Bacteroides_fragilis
pAdjRuralUrban= 0.376
log relative abundance
4.5
5.0
5.5
rural
urban

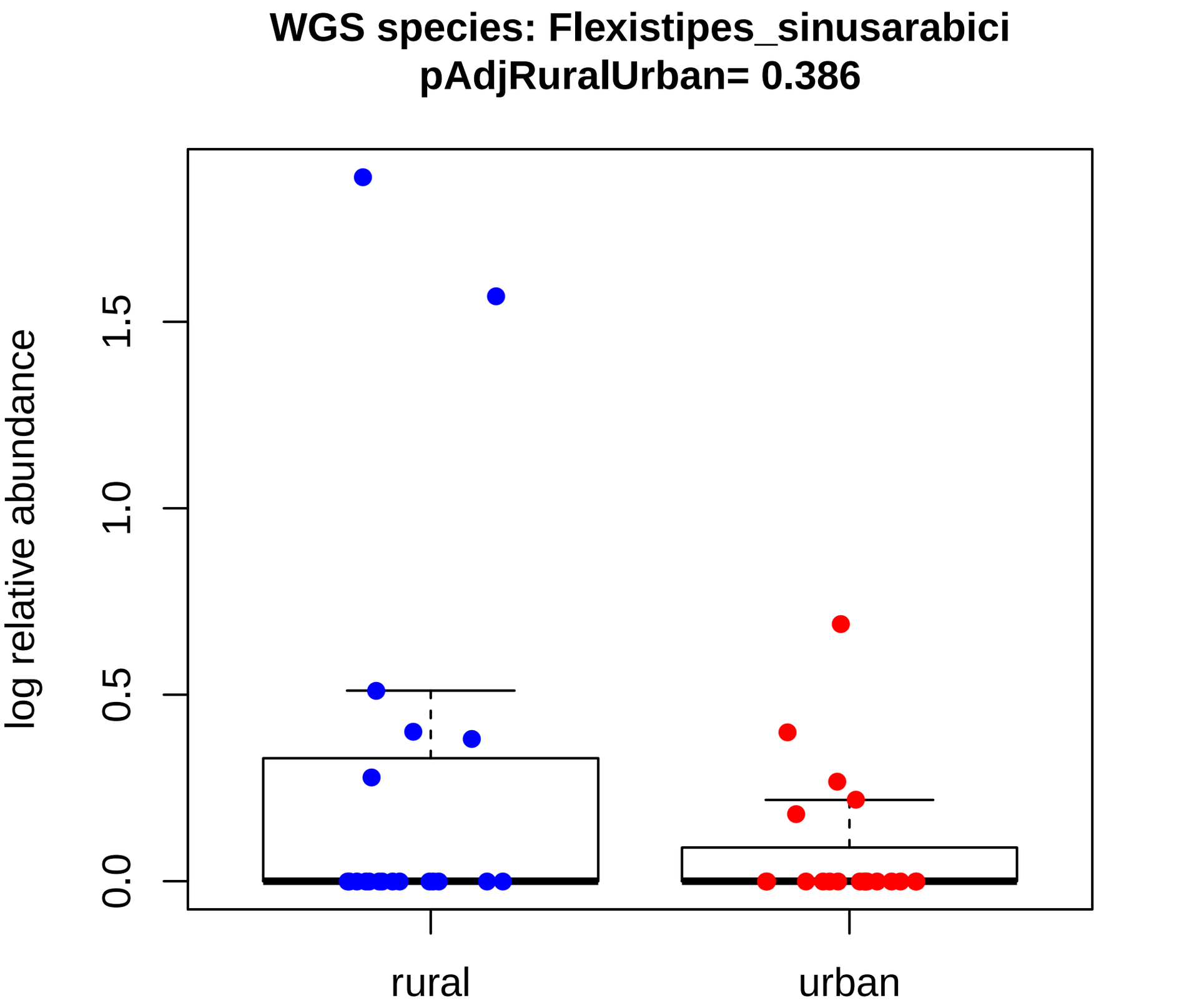

WGS species: Coraliomargarita_akajimensis
pAdjRuralUrban= 0.377
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

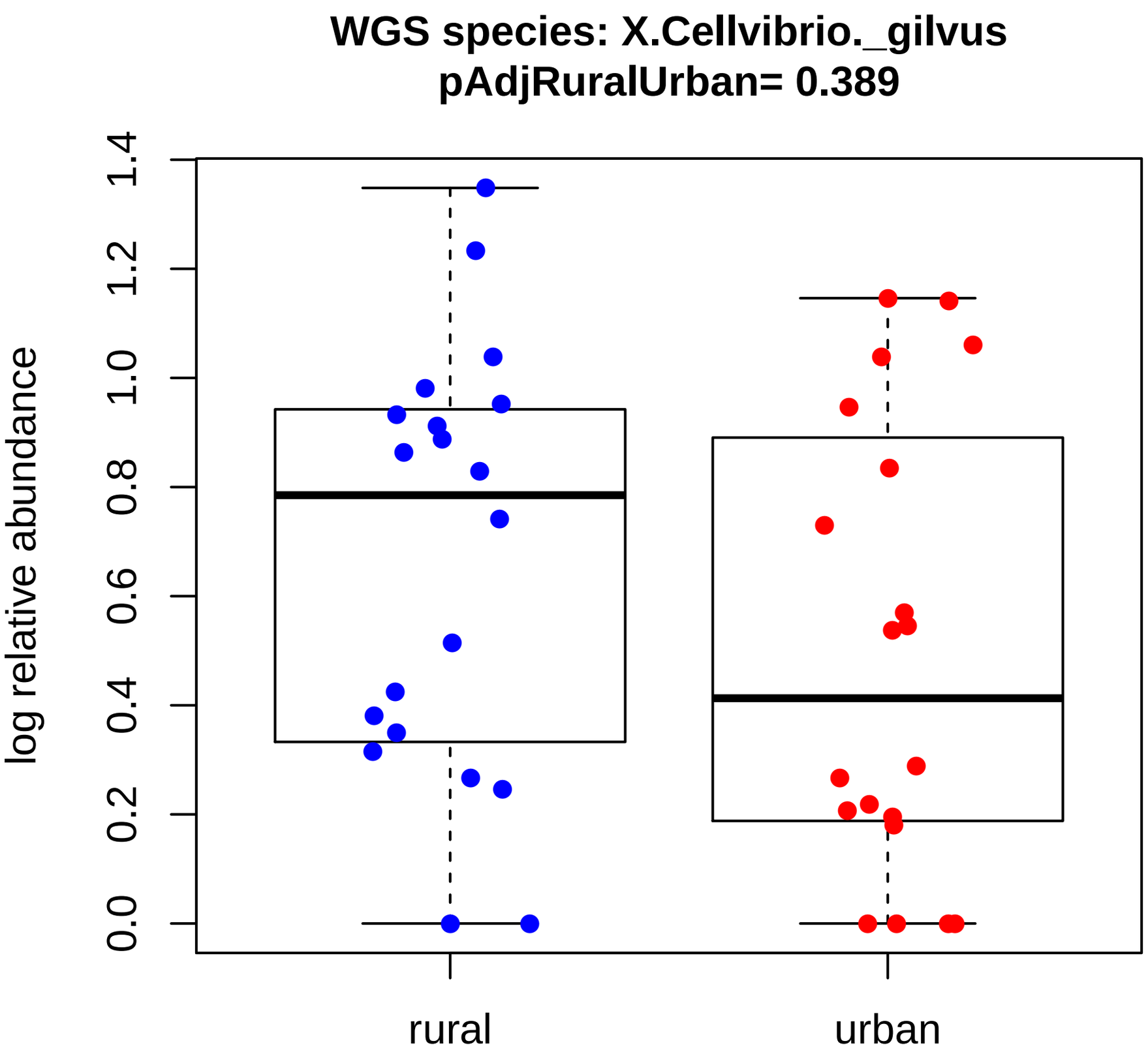

WGS species: Carnobacterium_sp._17.4
pAdjRuralUrban= 0.378
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

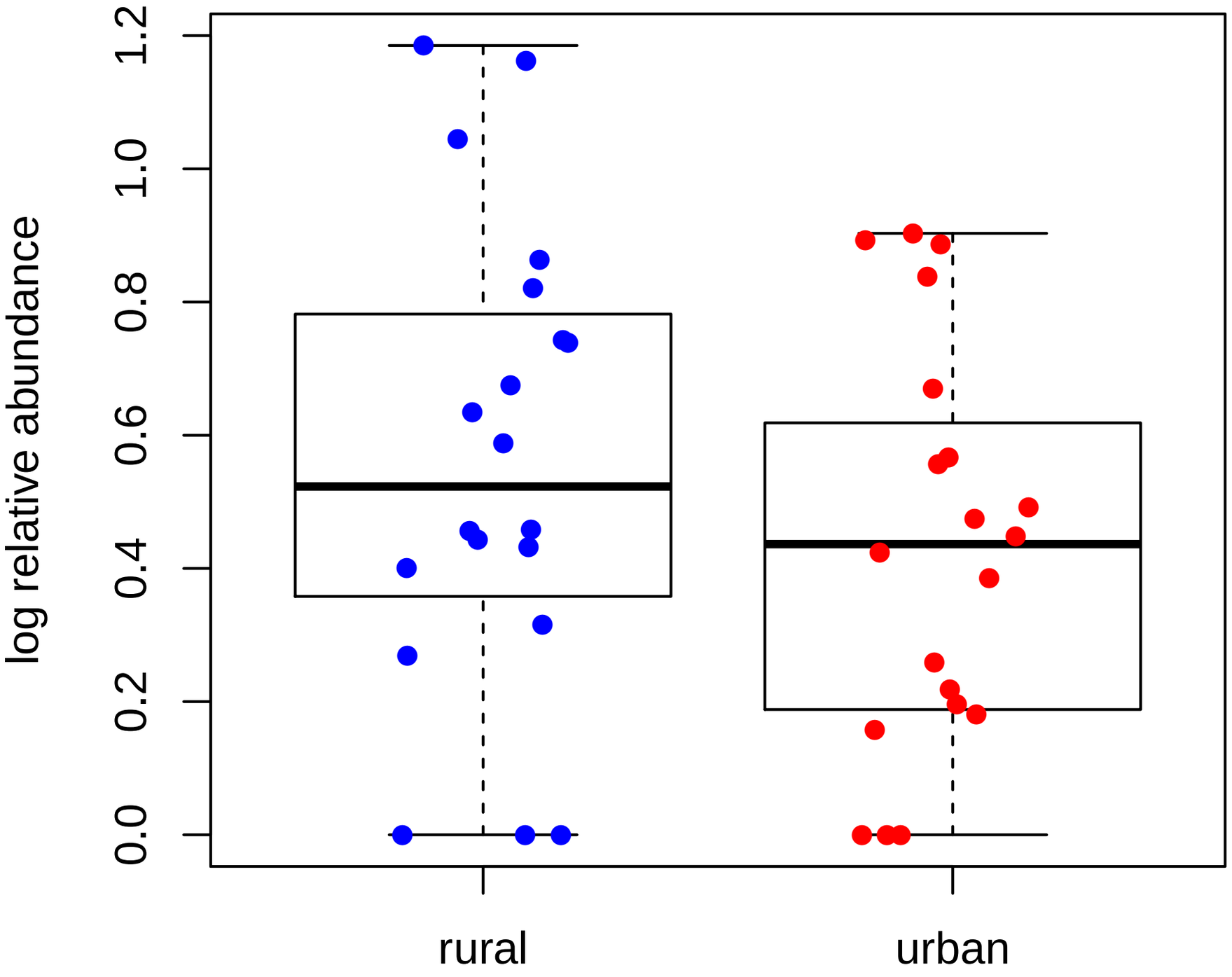

WGS species: Kitasatospora_setae
pAdjRuralUrban= 0.382
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

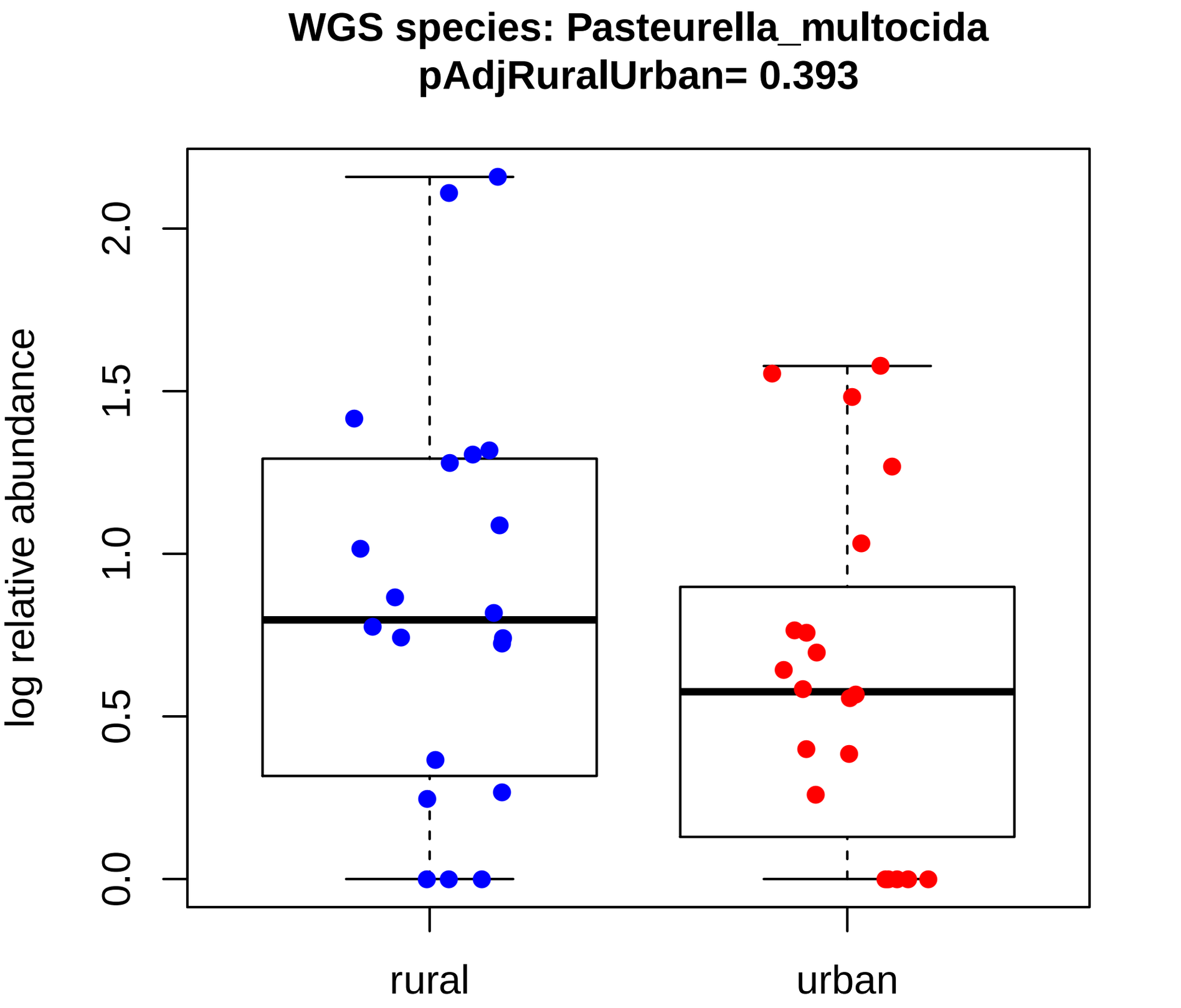

WGS species: Sulfuricella_denitrificans
pAdjRuralUrban= 0.384
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

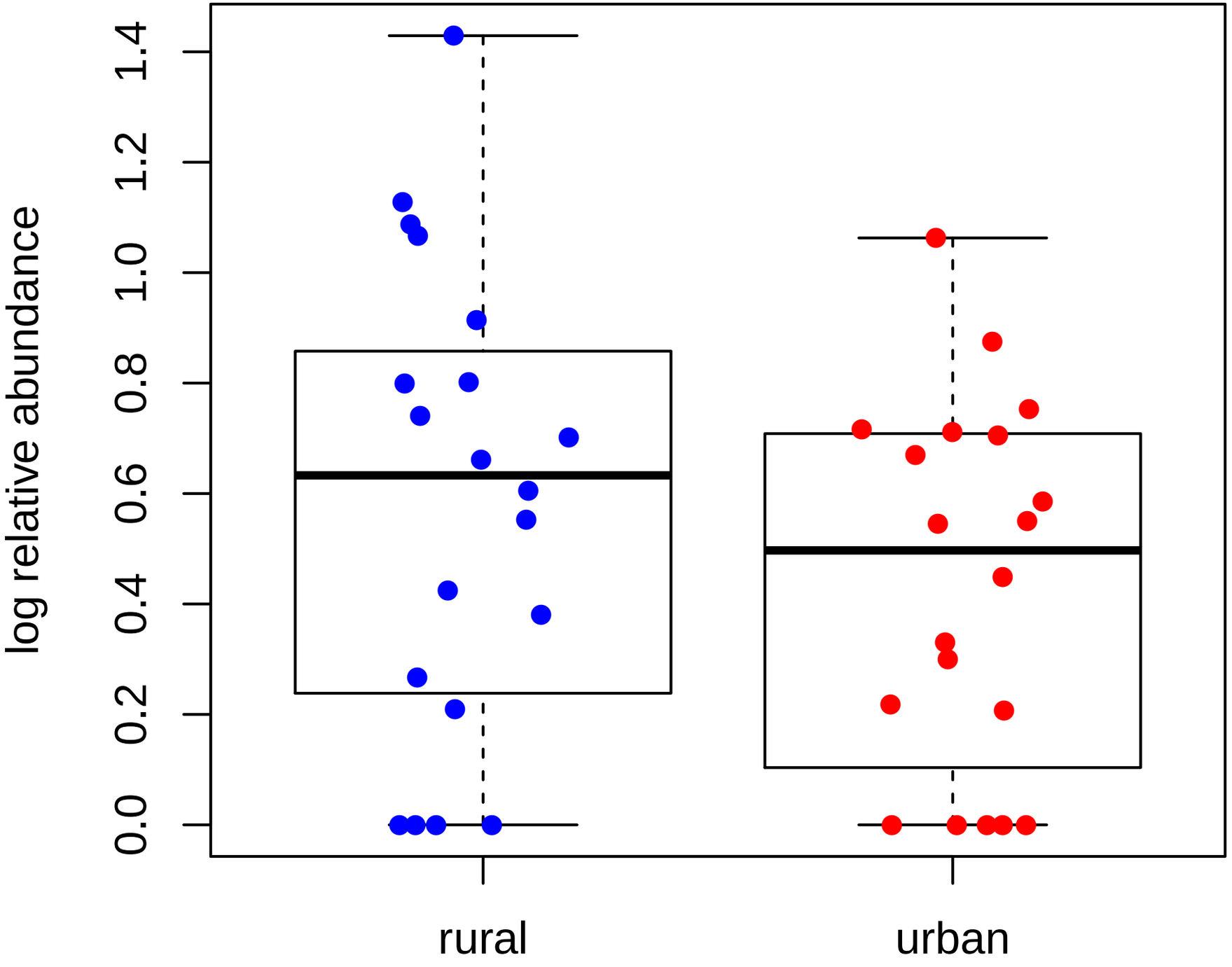

WGS species: Desulfovibrio_piezophilus
pAdjRuralUrban= 0.385
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

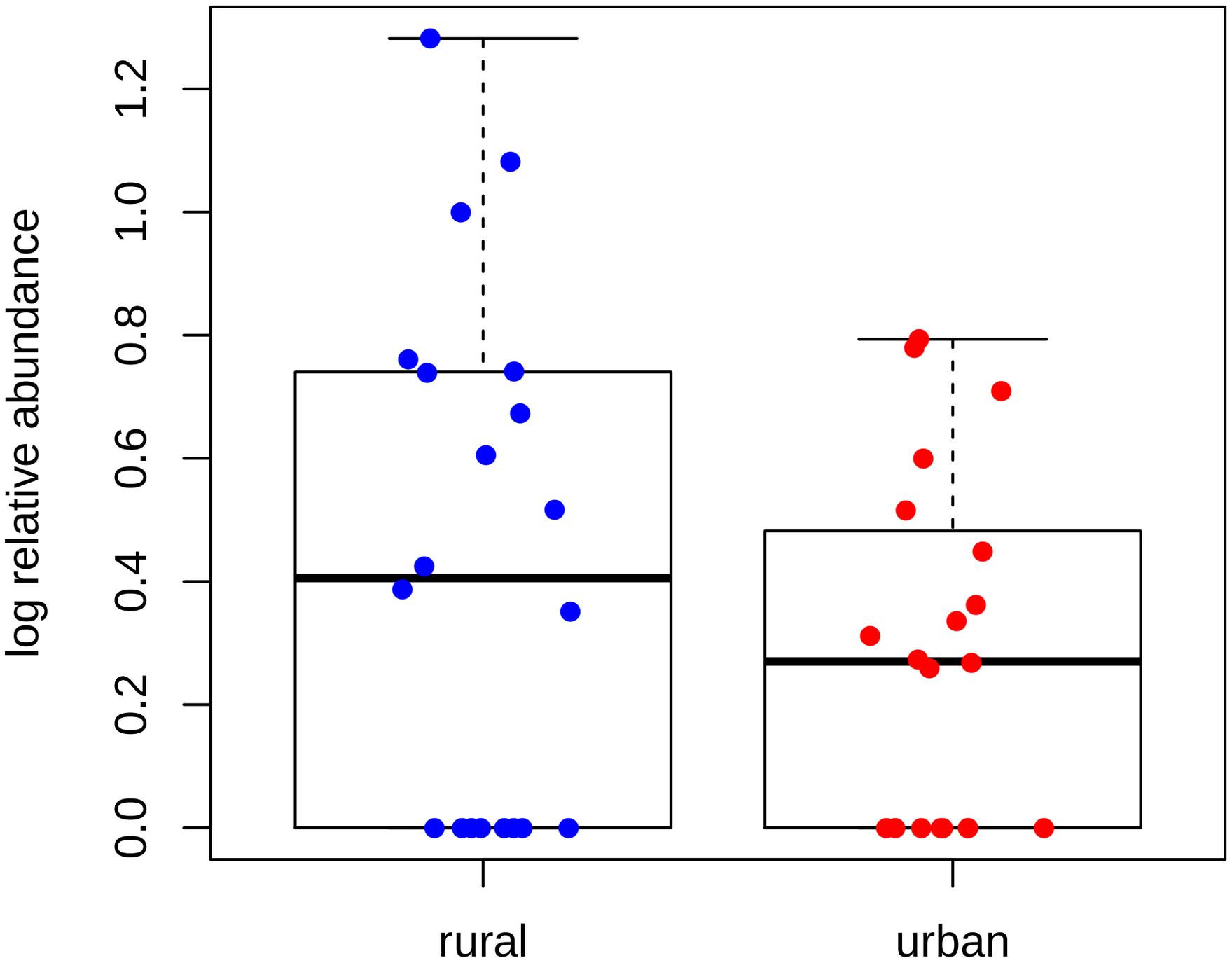

WGS species: Flexistipes_sinusarabici
pAdjRuralUrban= 0.386
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

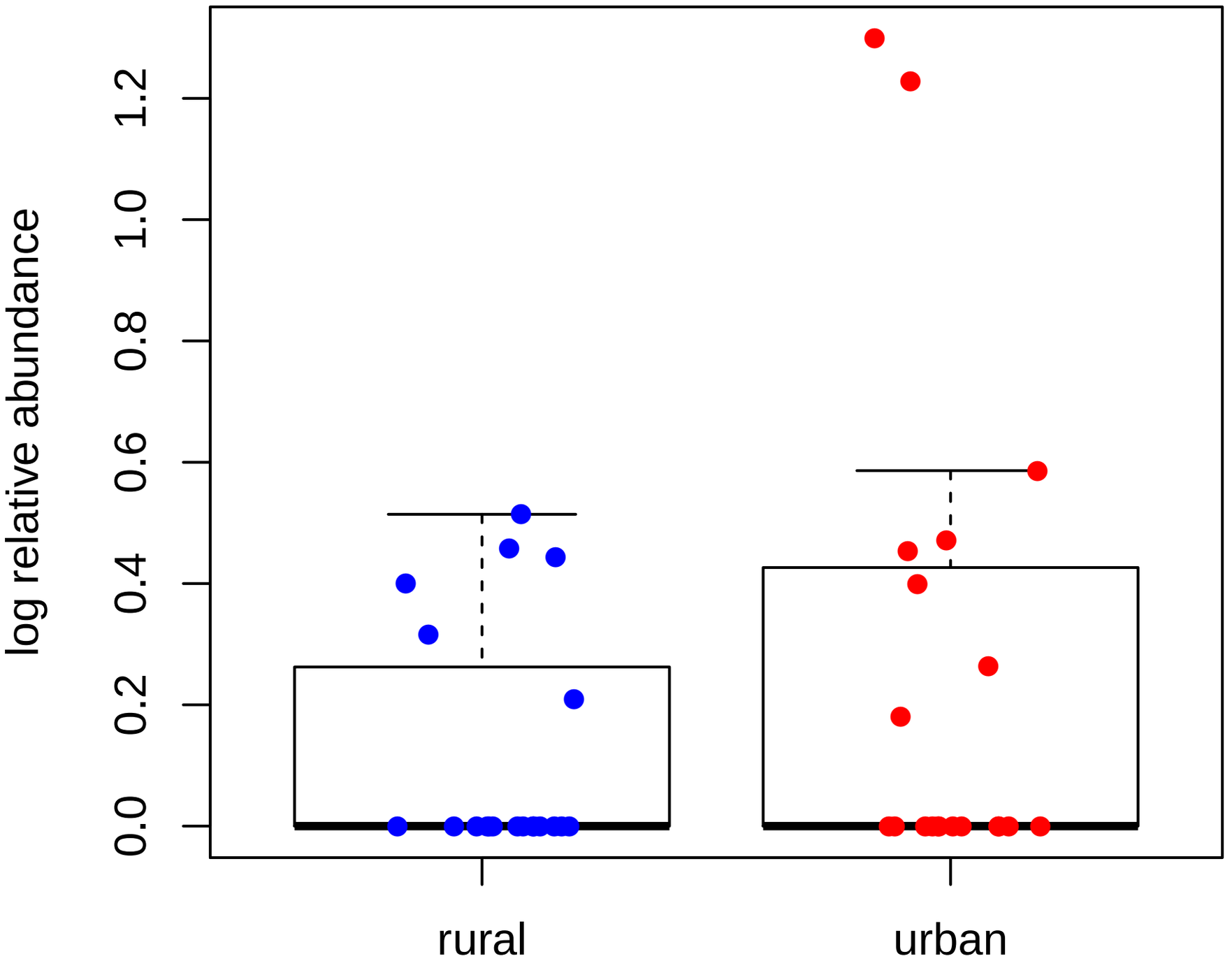

WGS species: X.Cellvibrio._gilvus
pAdjRuralUrban= 0.389
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

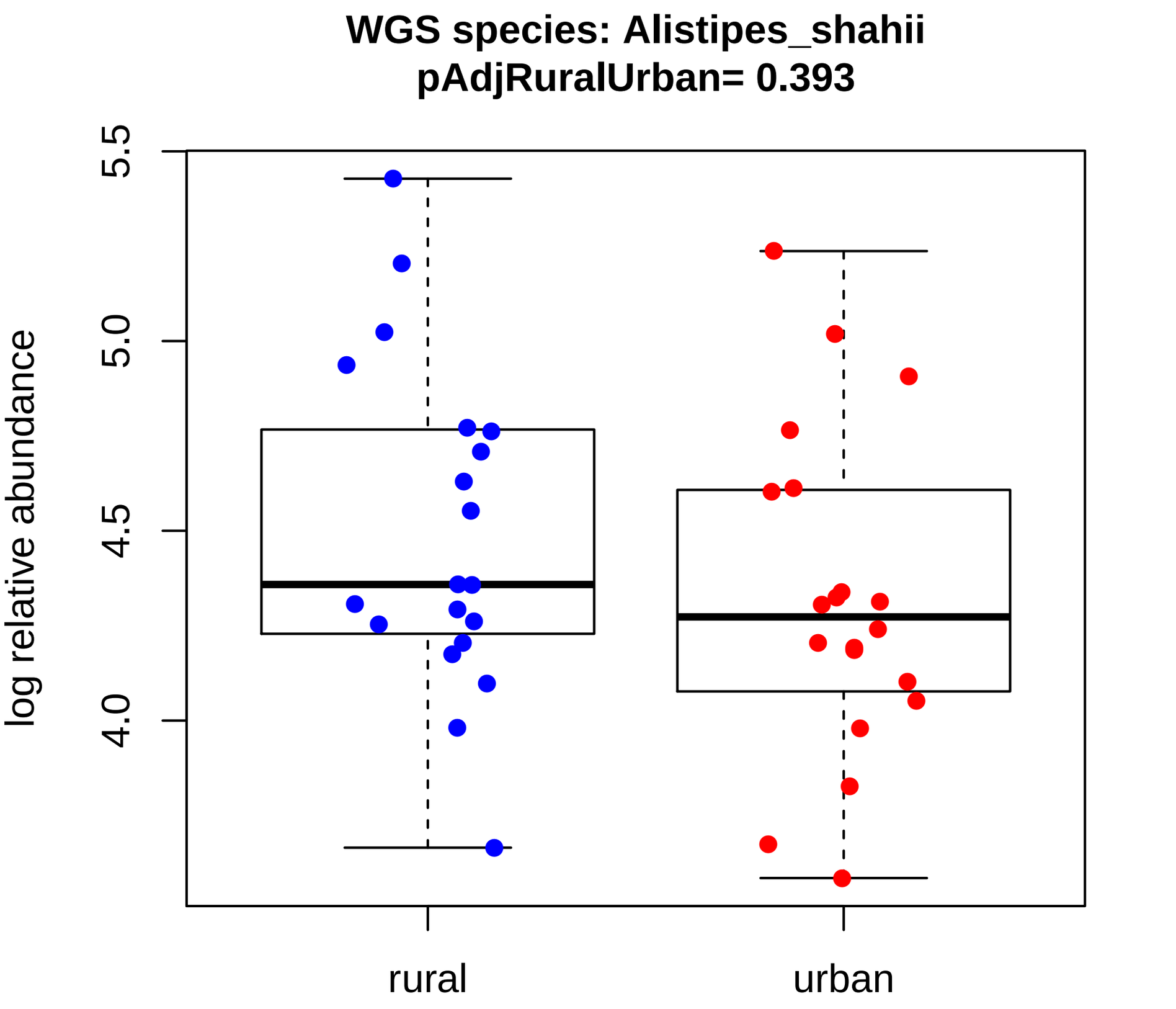

WGS species: Thermus_thermophilus
pAdjRuralUrban= 0.392
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

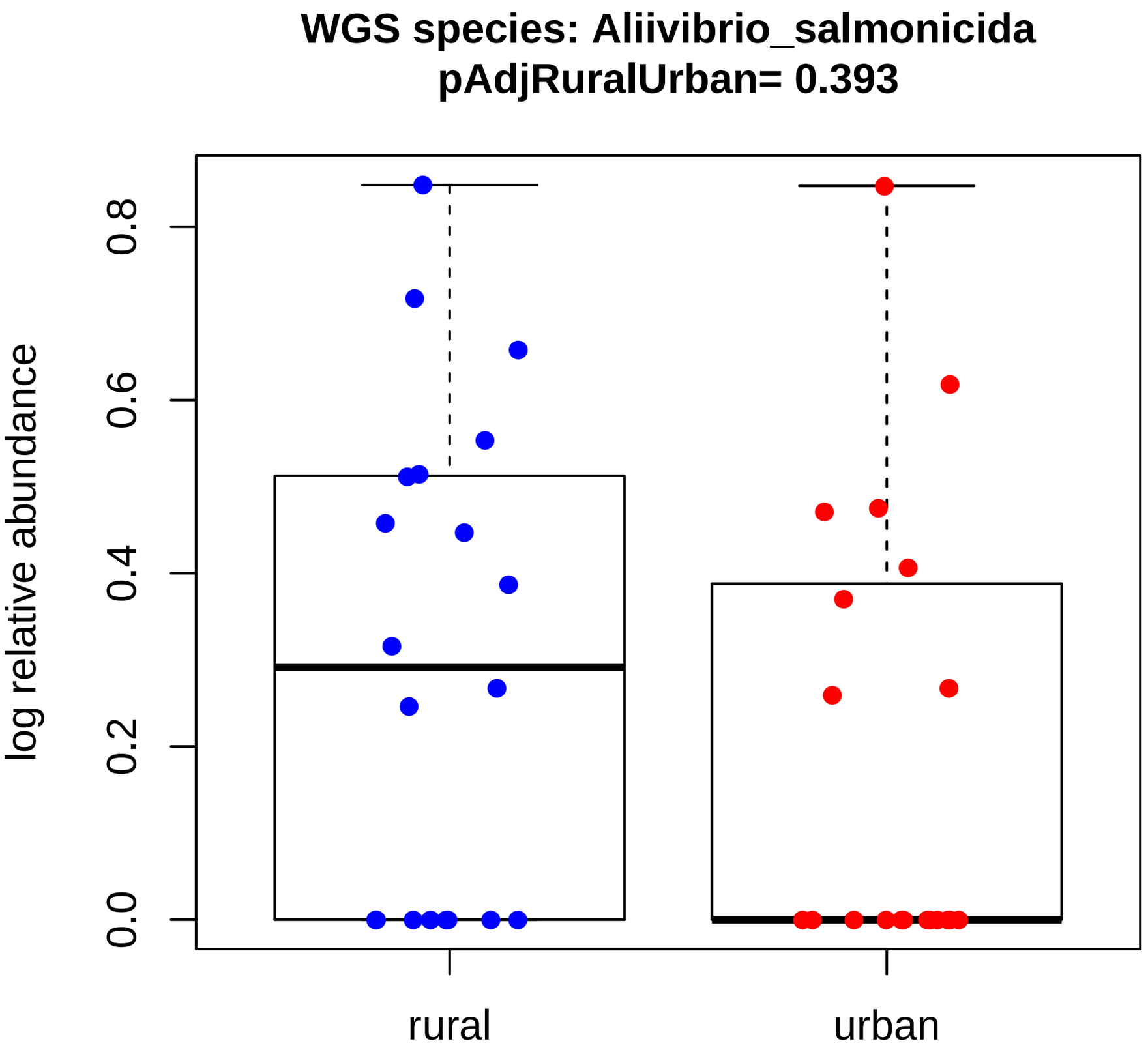

WGS species: Pasteurella_multocida
pAdjRuralUrban= 0.393
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

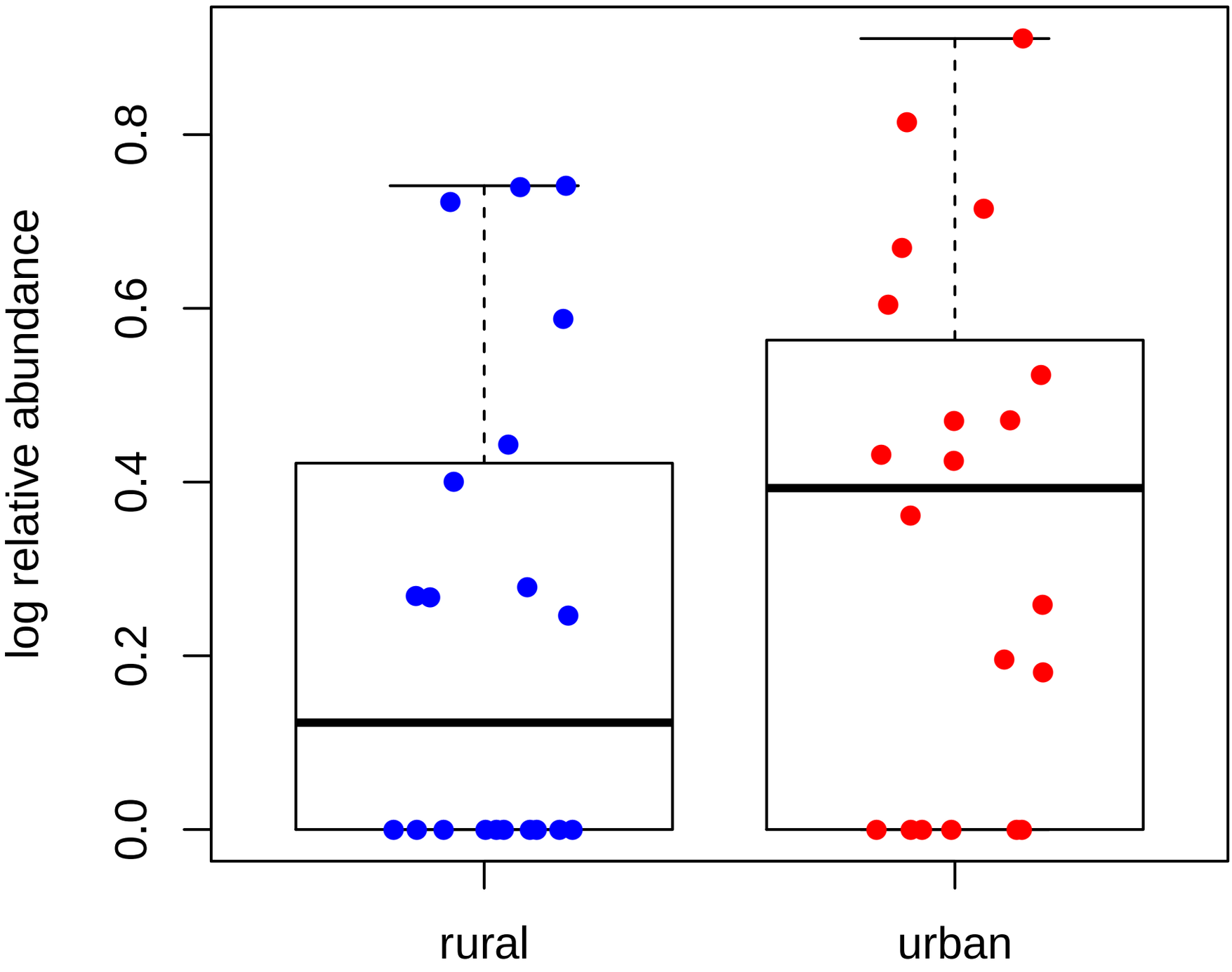

WGS species: Novosphingobium_aromaticivorans
pAdjRuralUrban= 0.393
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

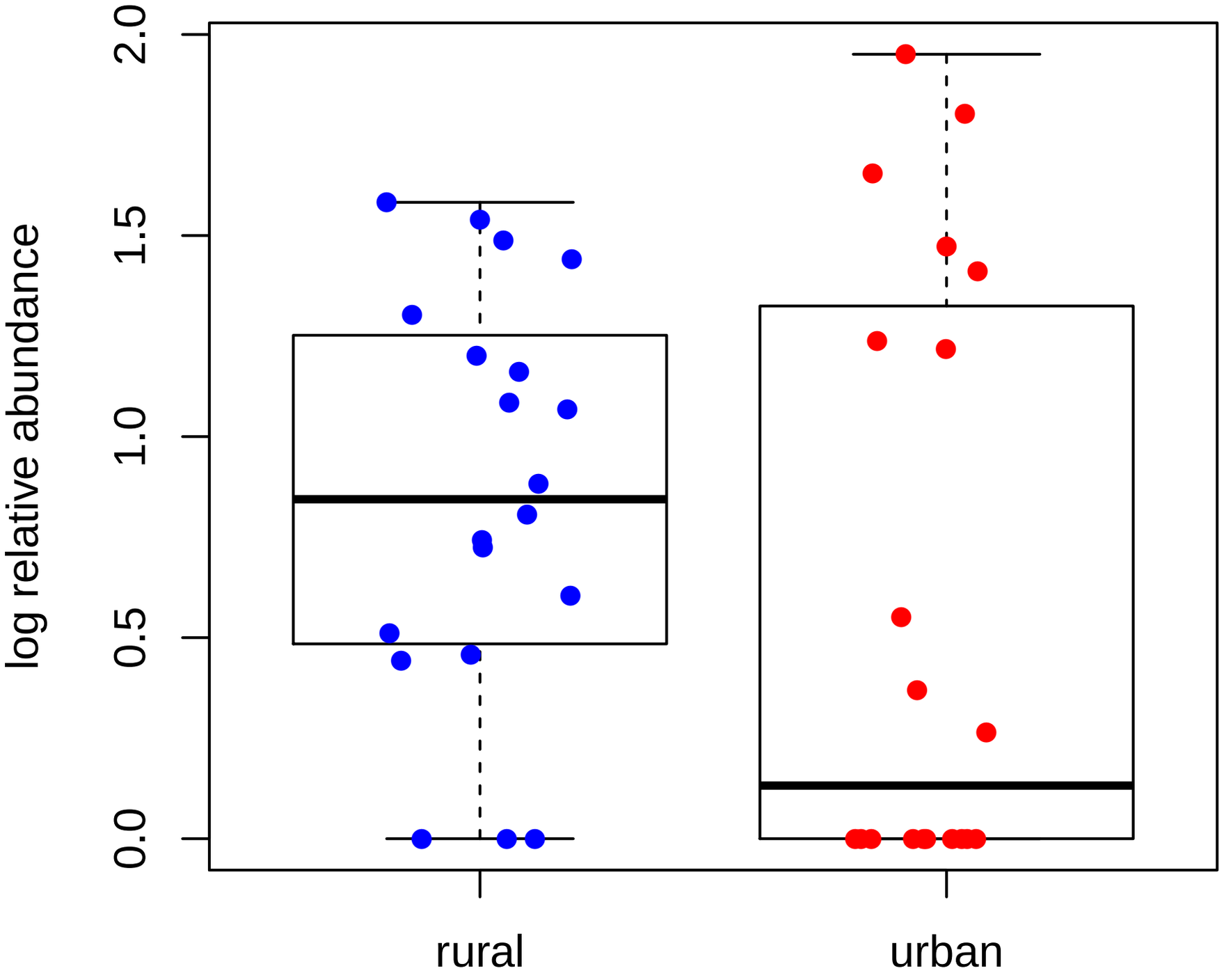

WGS species: Clostridium_ljungdahlii
pAdjRuralUrban= 0.393
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

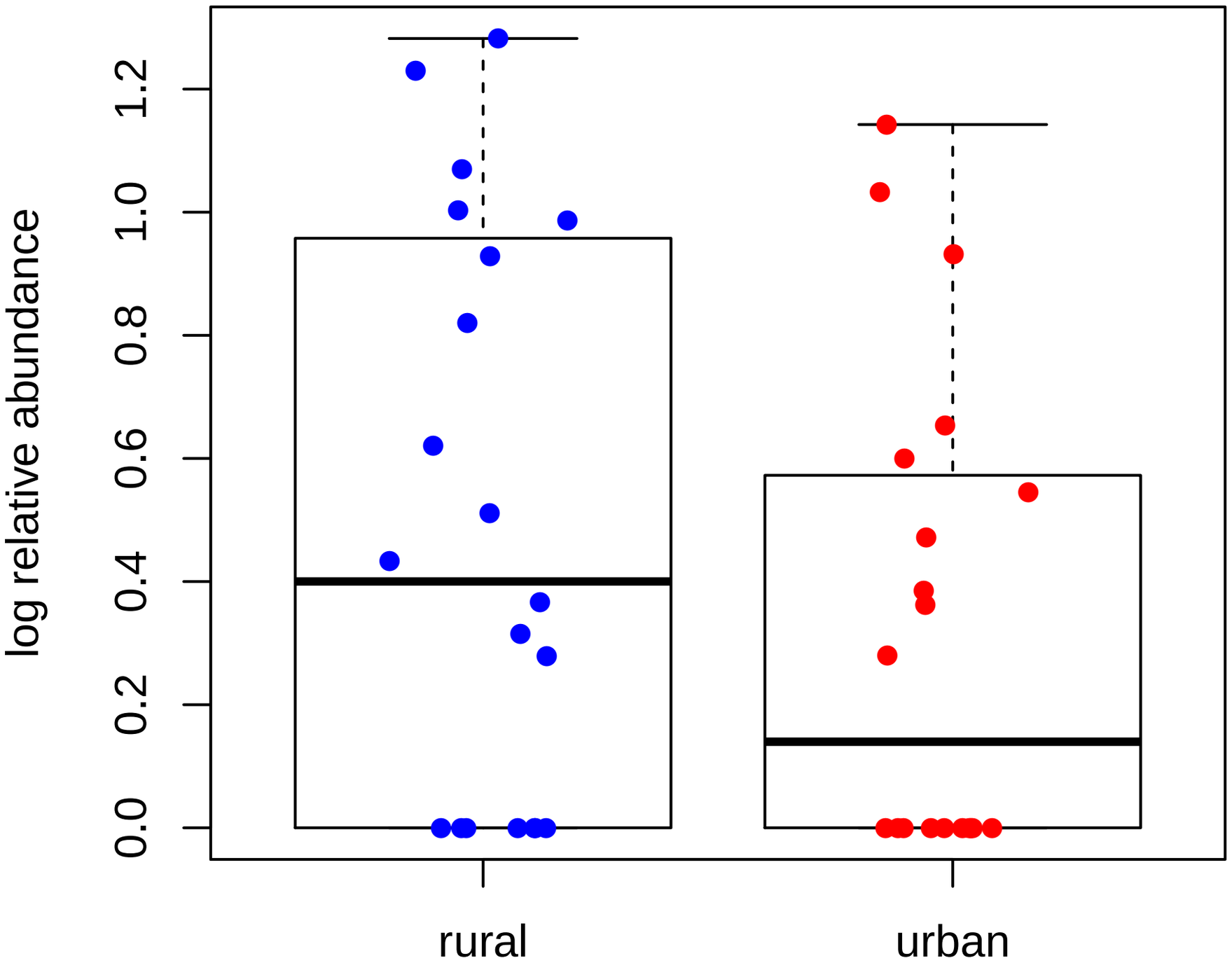

WGS species: Coprothermobacter_proteolyticus
pAdjRuralUrban= 0.393
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

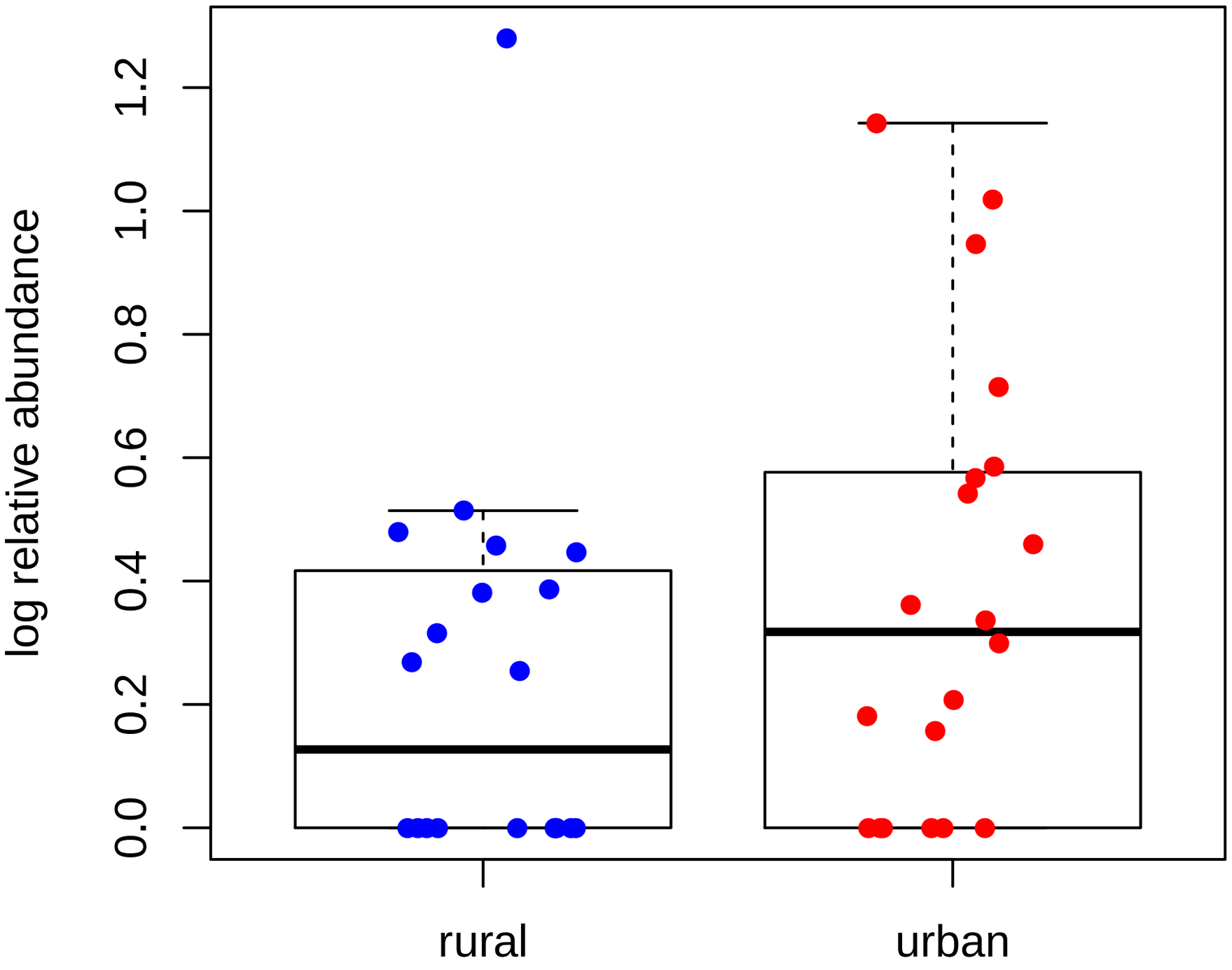

WGS species: Alistipes_shahii
pAdjRuralUrban= 0.393
log relative abundance
5.5
5.0
4.5
4.0
rural
urban

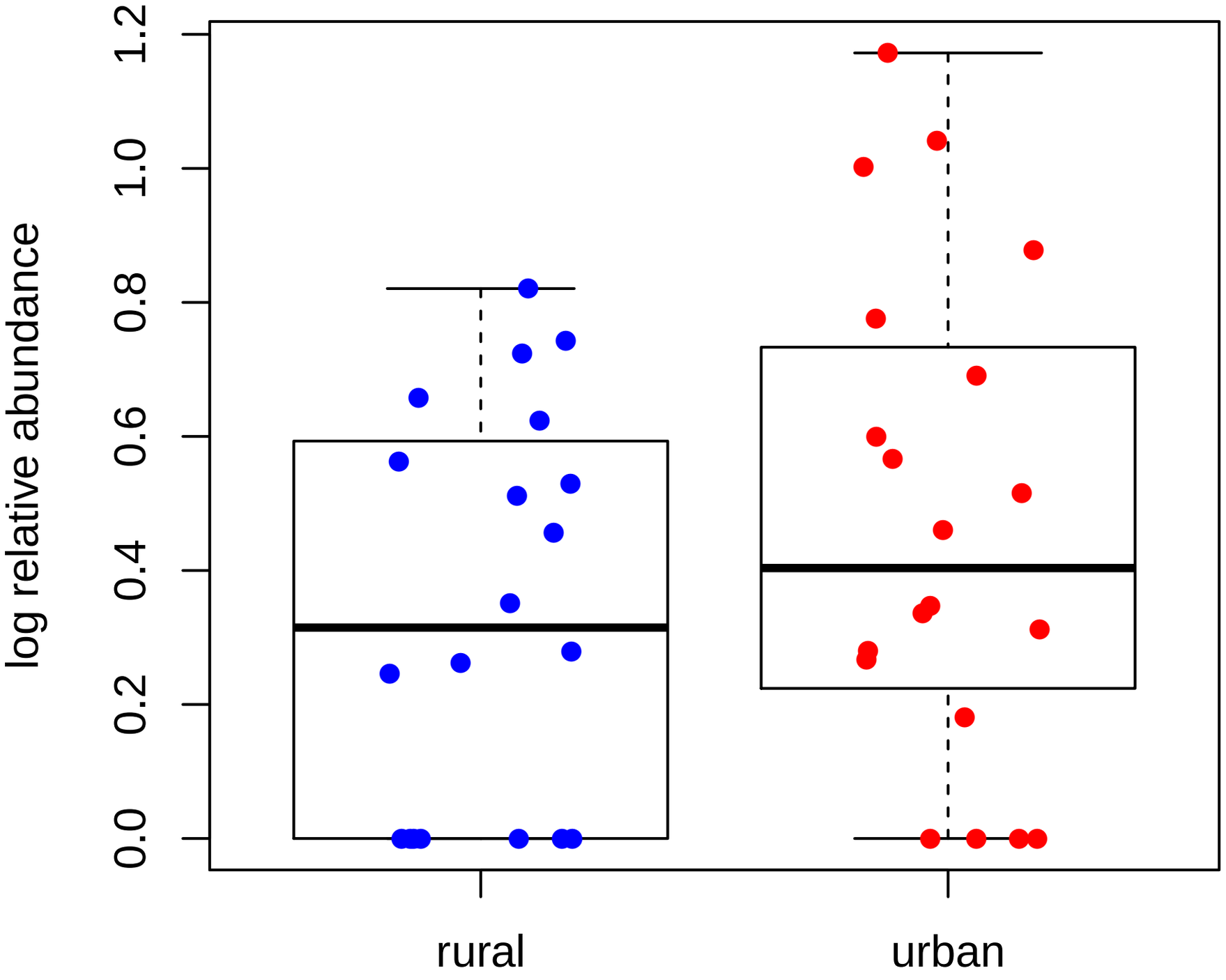

WGS species: Aliivibrio_salmonicida
pAdjRuralUrban= 0.393
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

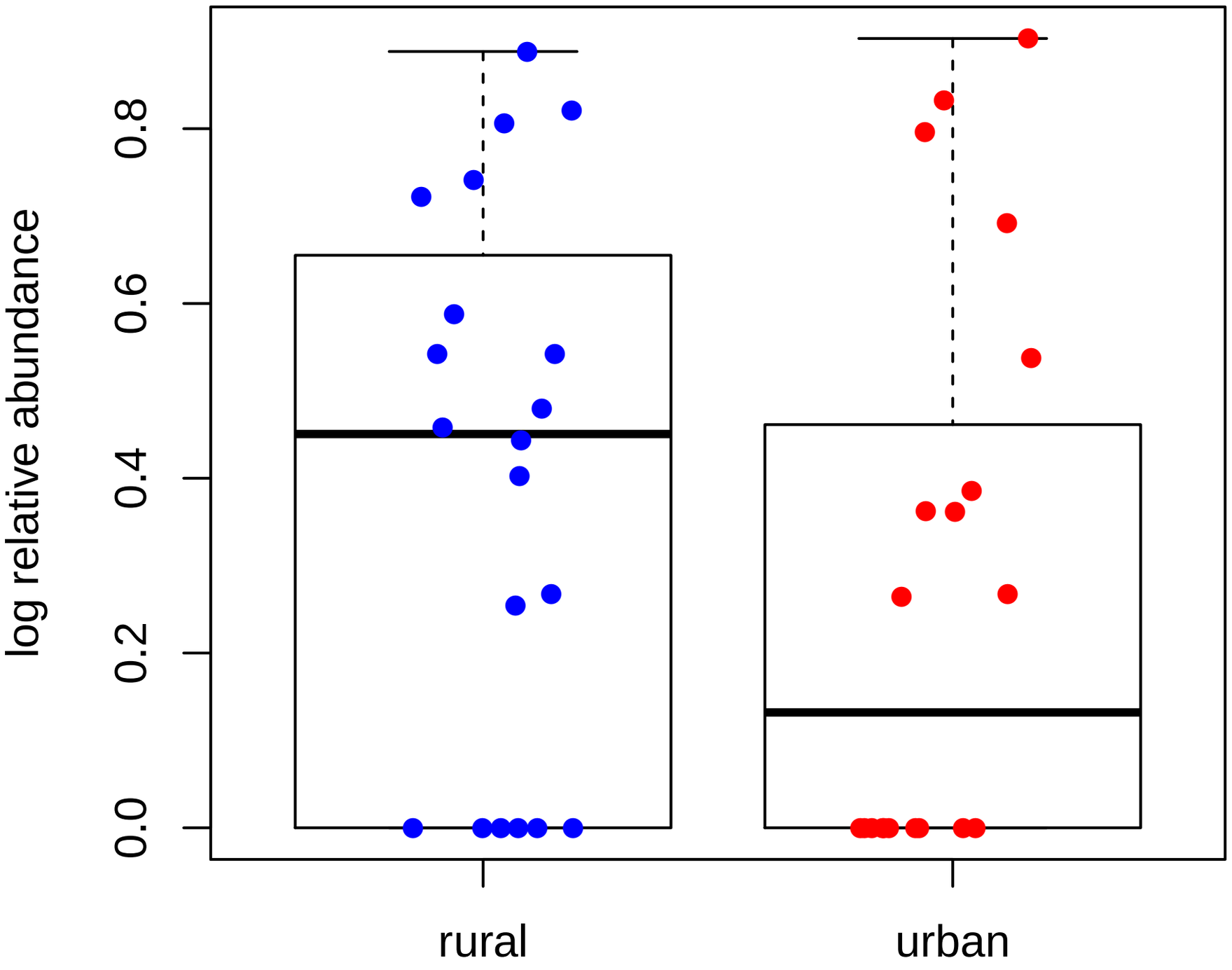

WGS species: Oscillatoria_nigro.viridis
pAdjRuralUrban= 0.396
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

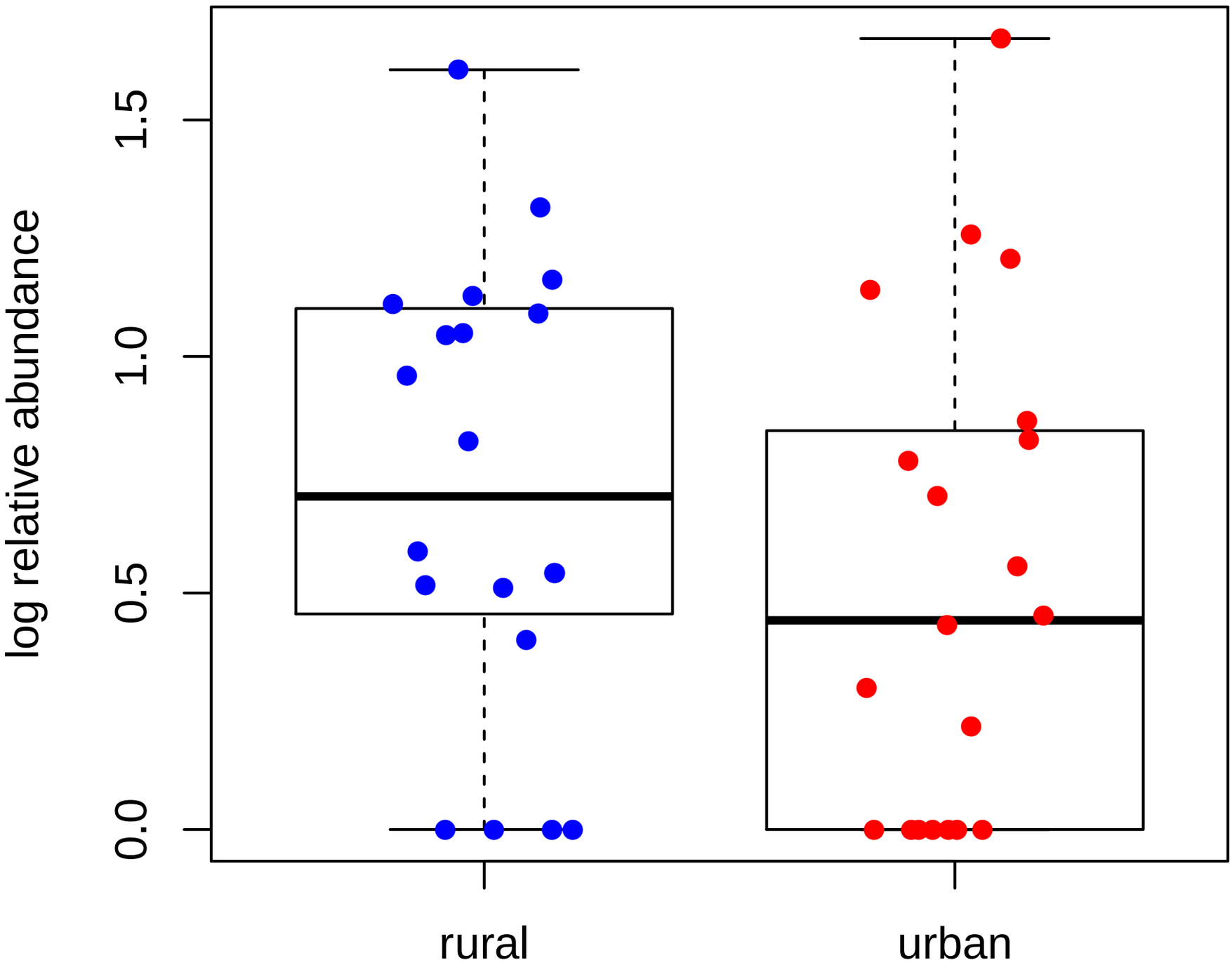

WGS species: Cyclobacterium_marinum
pAdjRuralUrban= 0.396
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

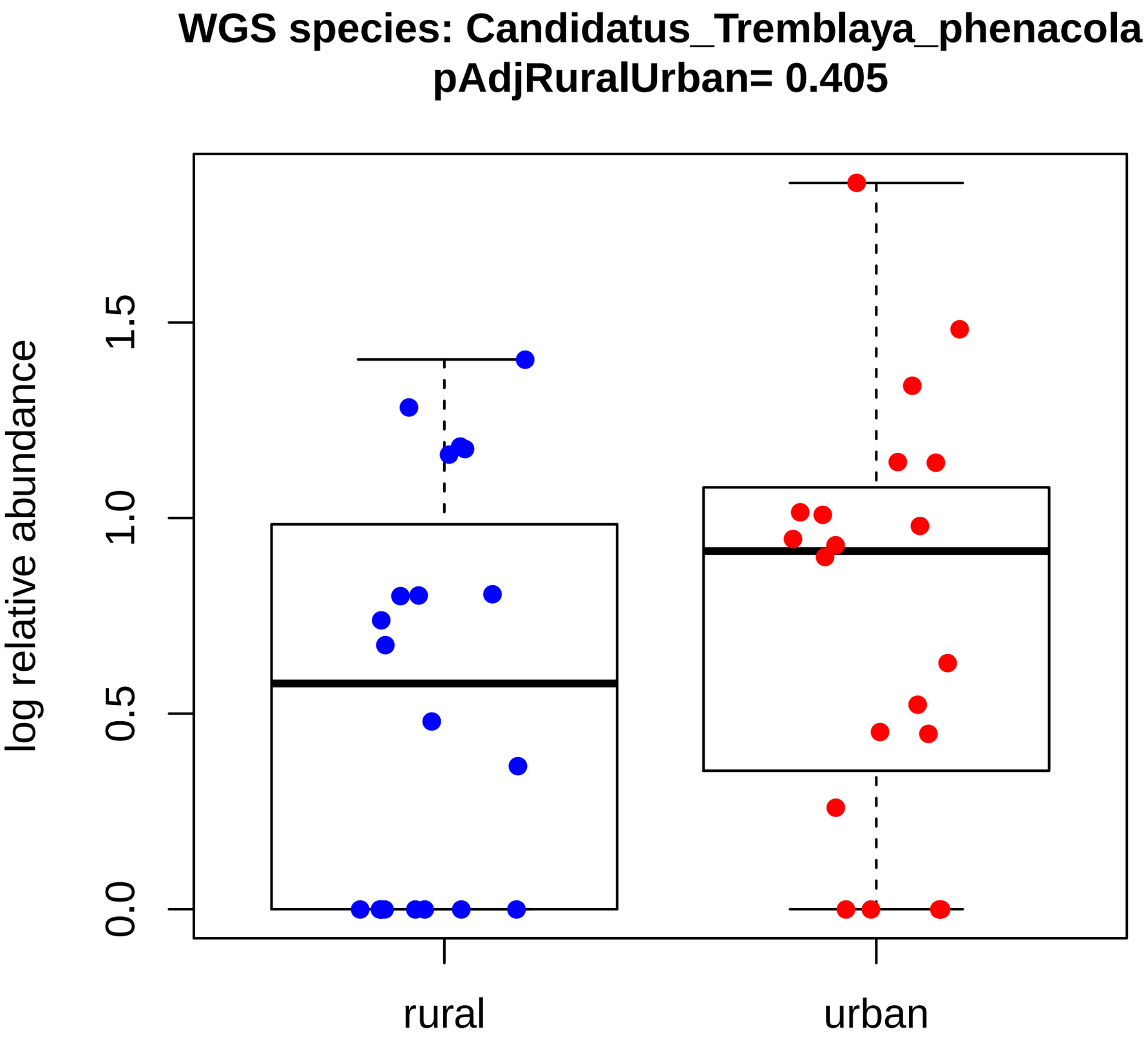

WGS species: Burkholderia_multivorans
pAdjRuralUrban= 0.396
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

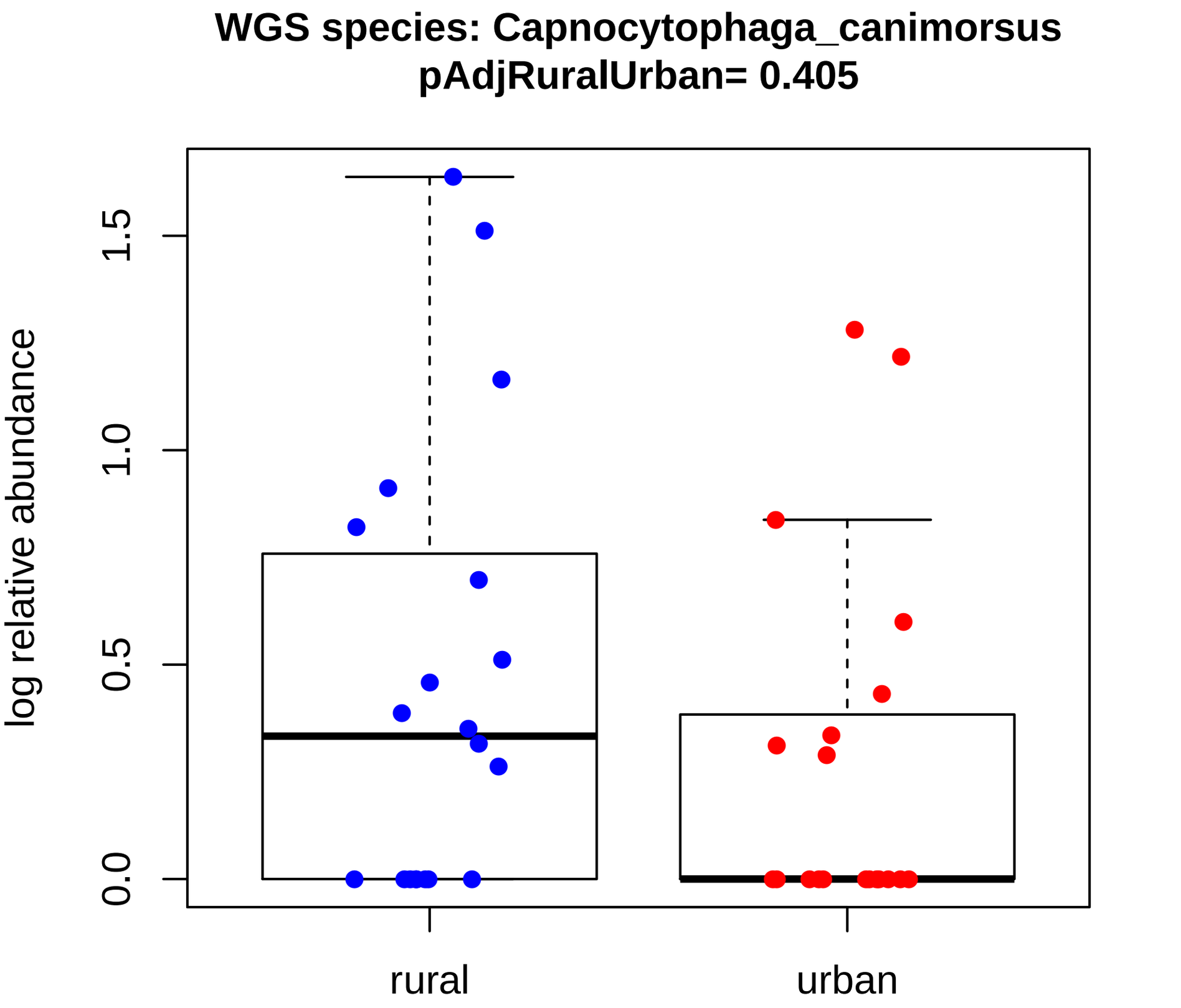

WGS species: Xanthomonas_oryzae
pAdjRuralUrban= 0.401
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

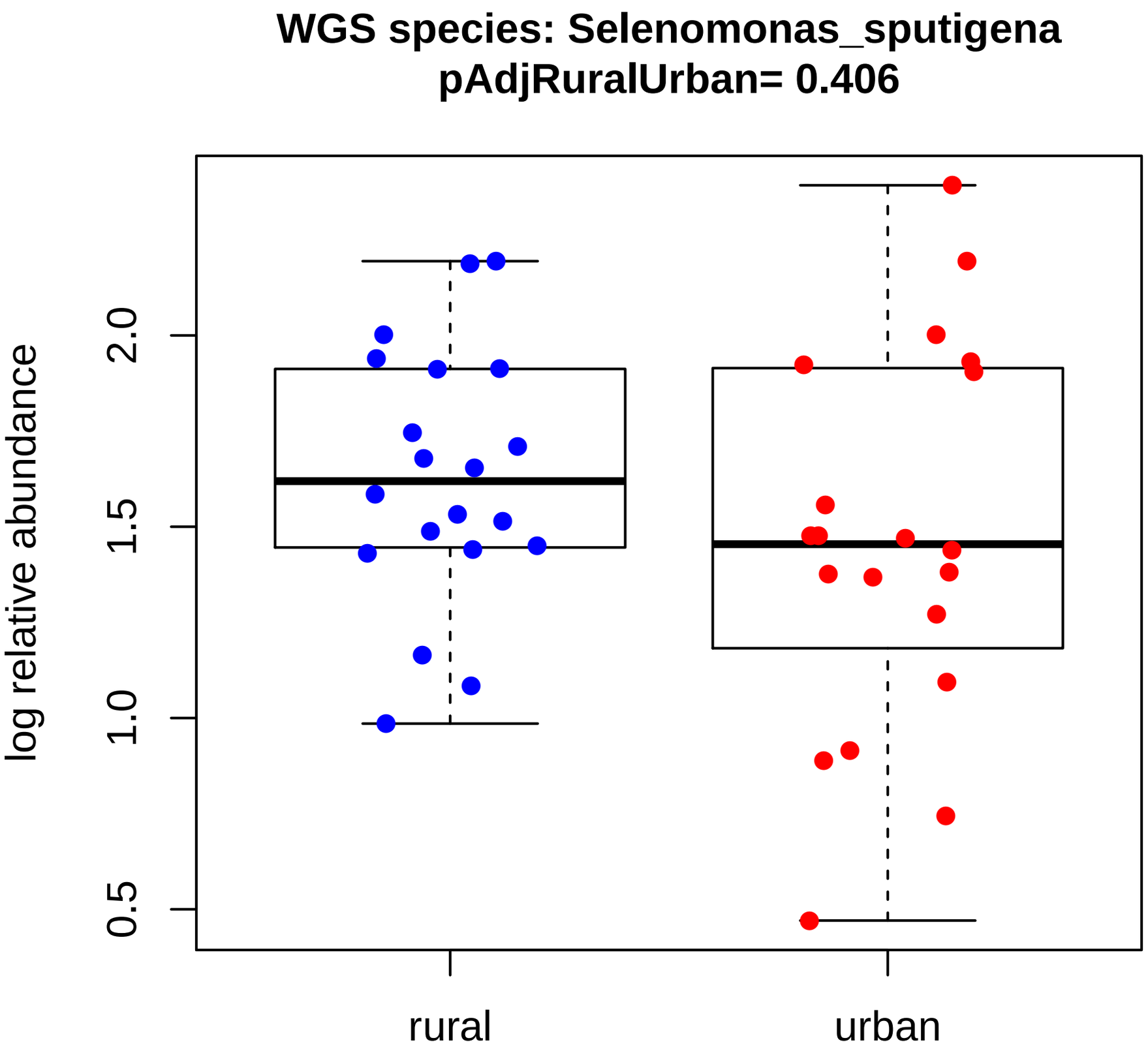

WGS species: Dictyoglomus_turgidum
pAdjRuralUrban= 0.401
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

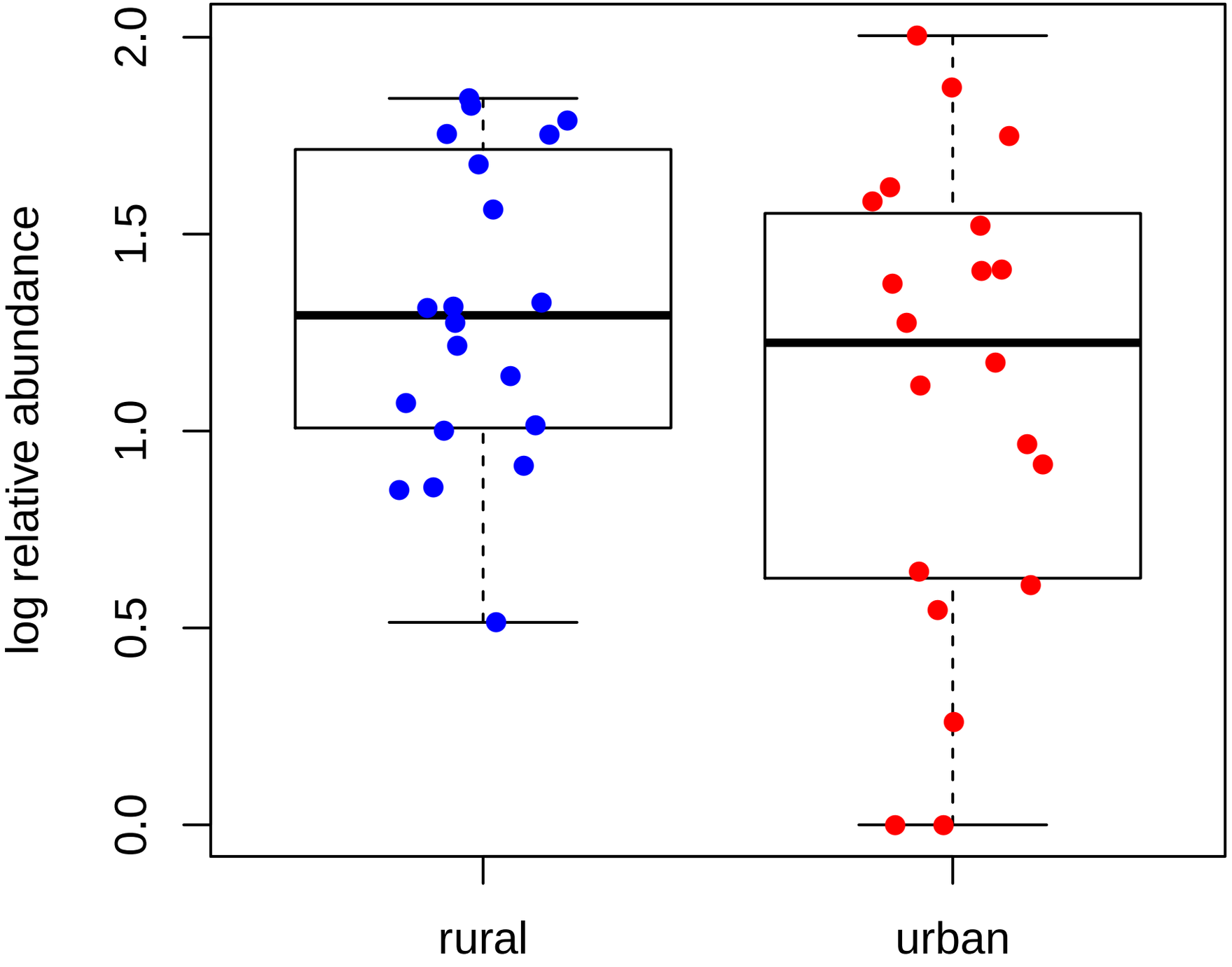

WGS species: Cellulophaga_lytica
pAdjRuralUrban= 0.401
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

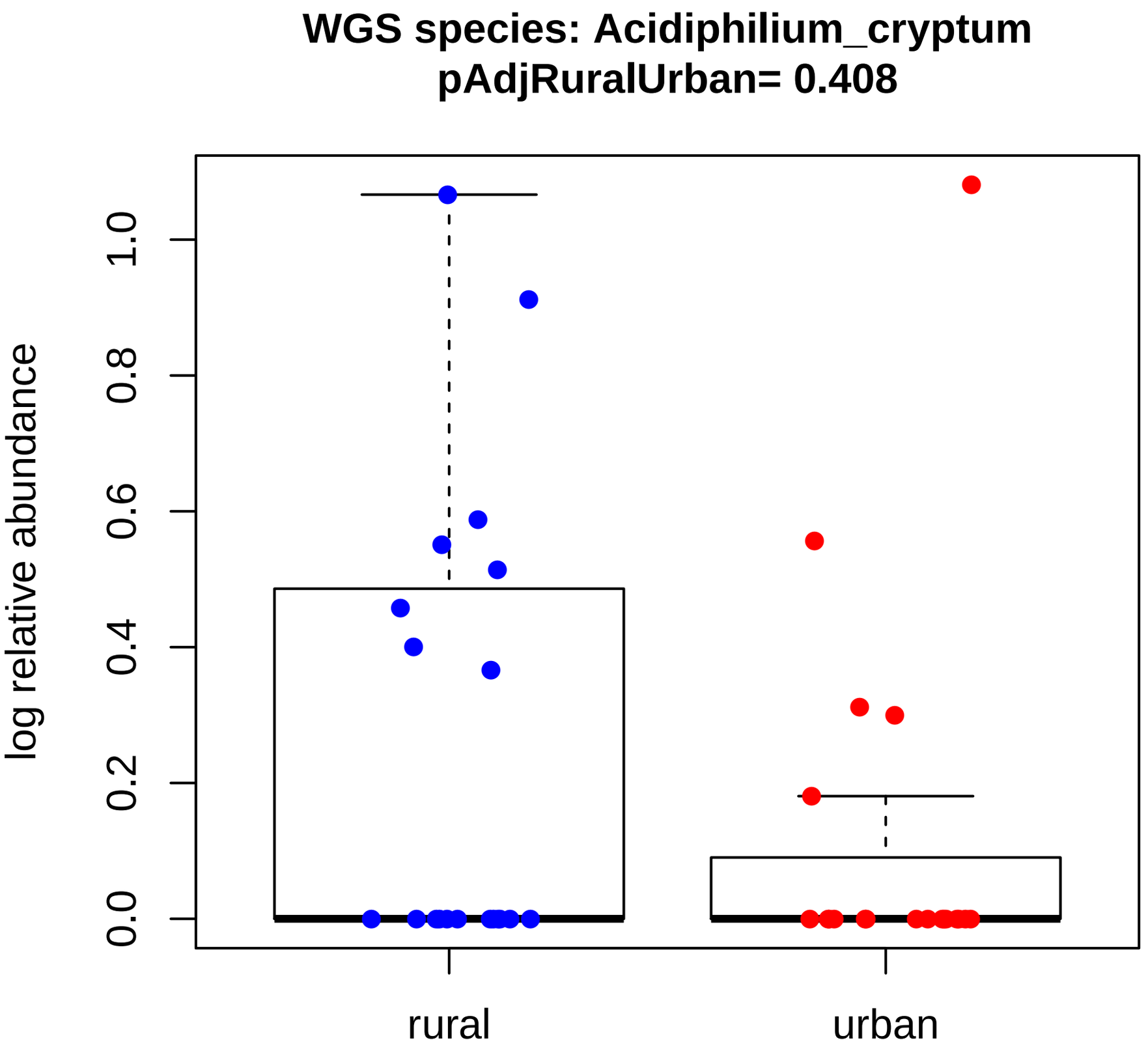

WGS species: Pseudomonas_fulva
pAdjRuralUrban= 0.402
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

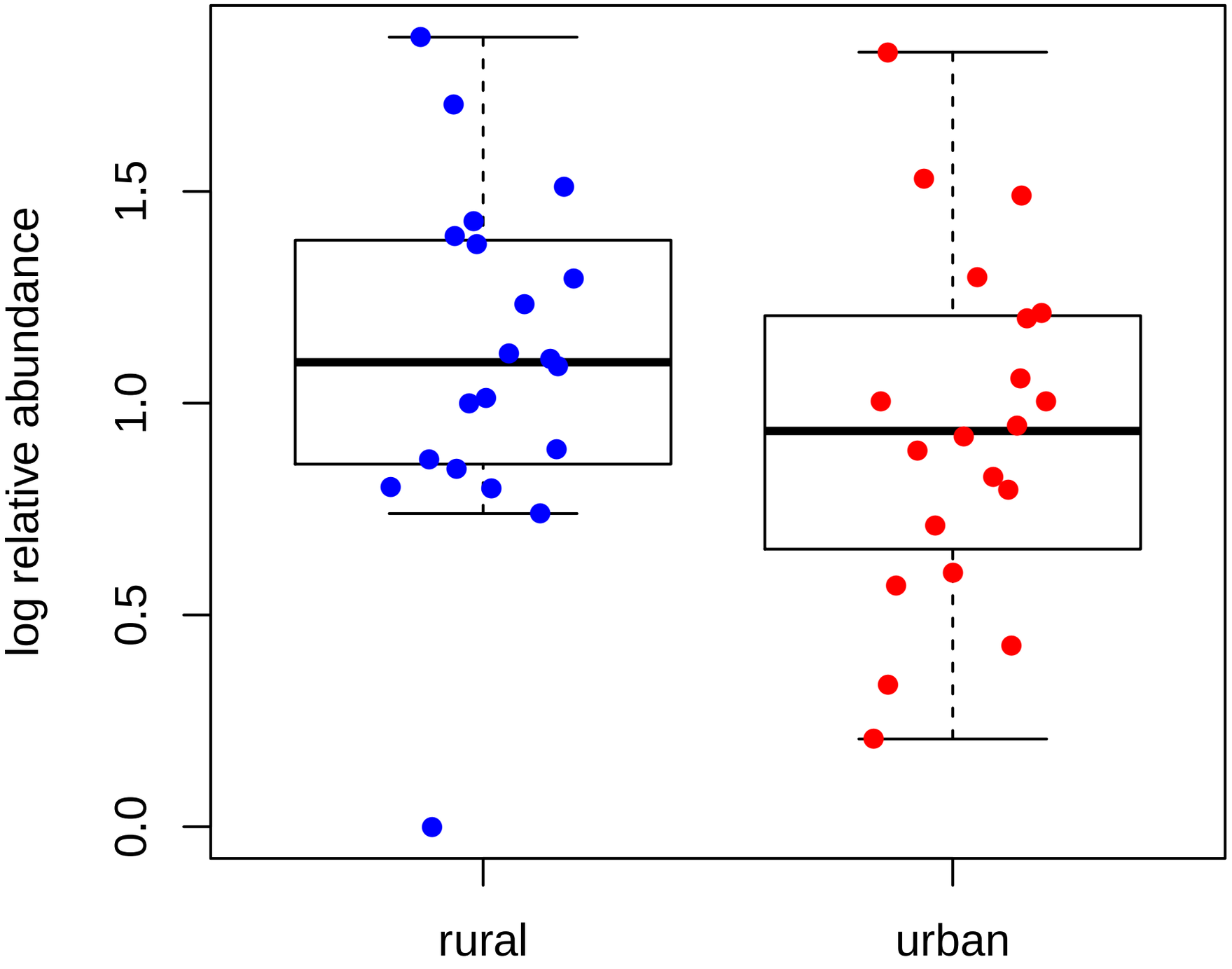

WGS species: Candidatus_Tremblaya_phenacola
pAdjRuralUrban= 0.405
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

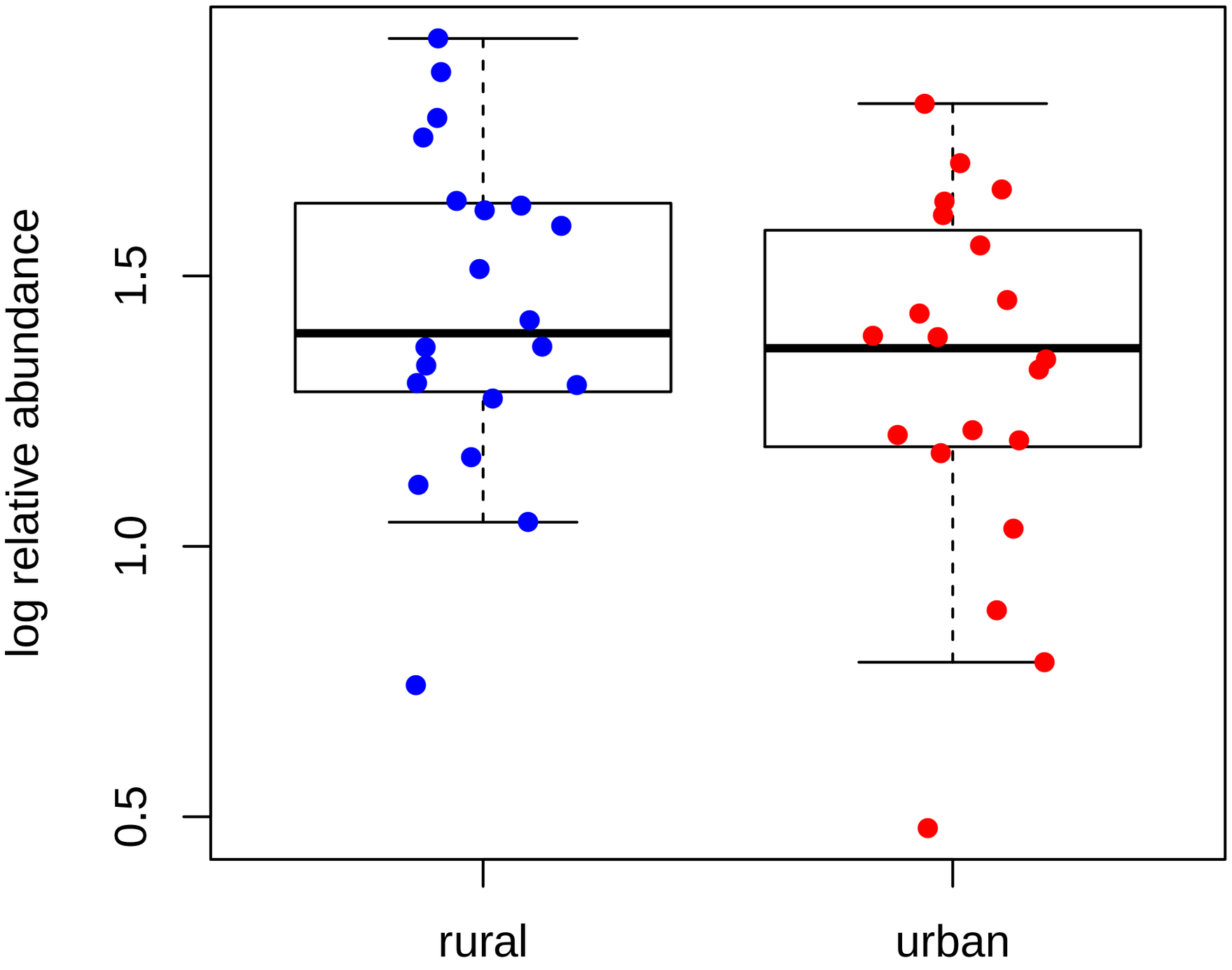

WGS species: Capnocytophaga_canimorsus
pAdjRuralUrban= 0.405
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

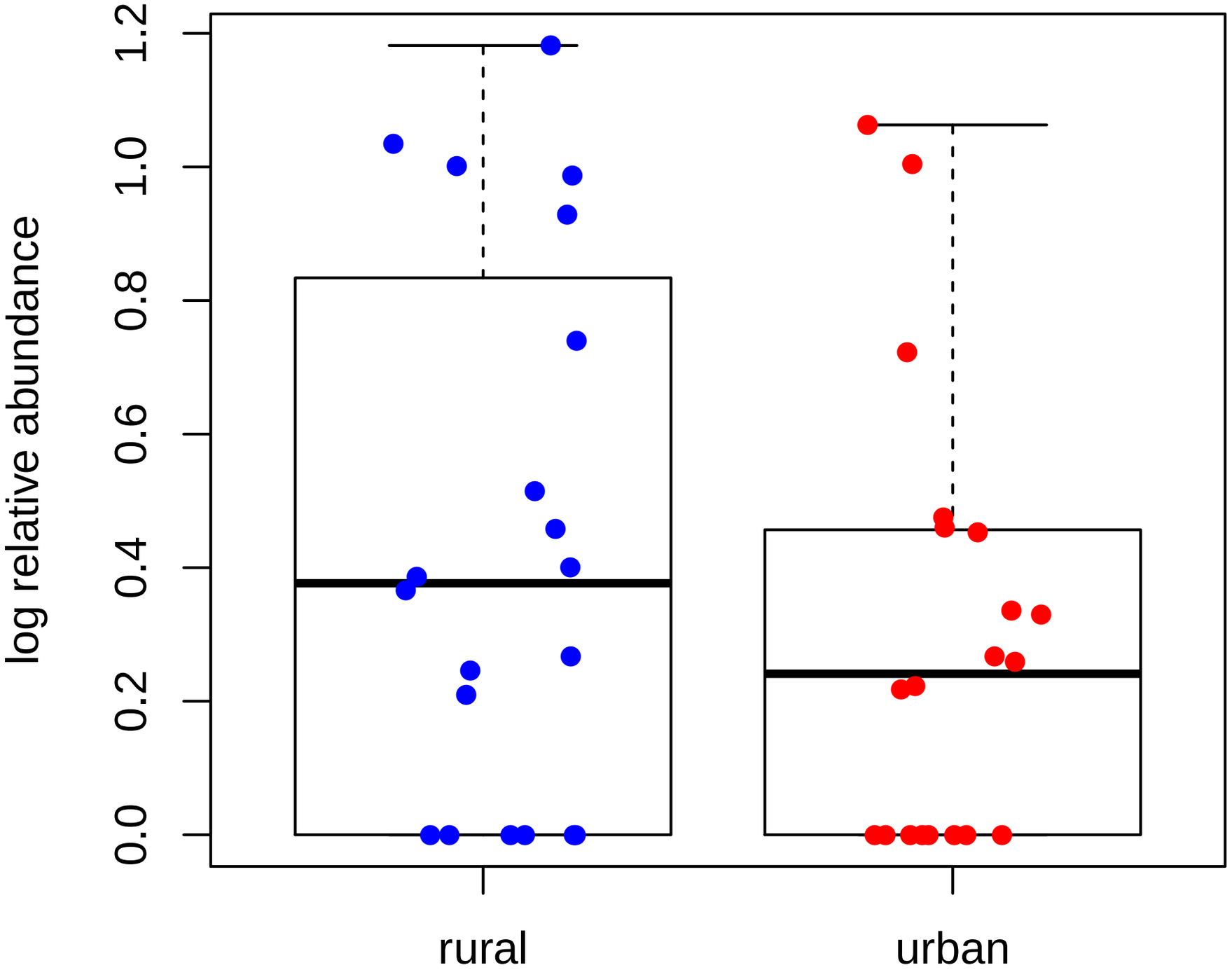

WGS species: Selenomonas_sputigena
pAdjRuralUrban= 0.406
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

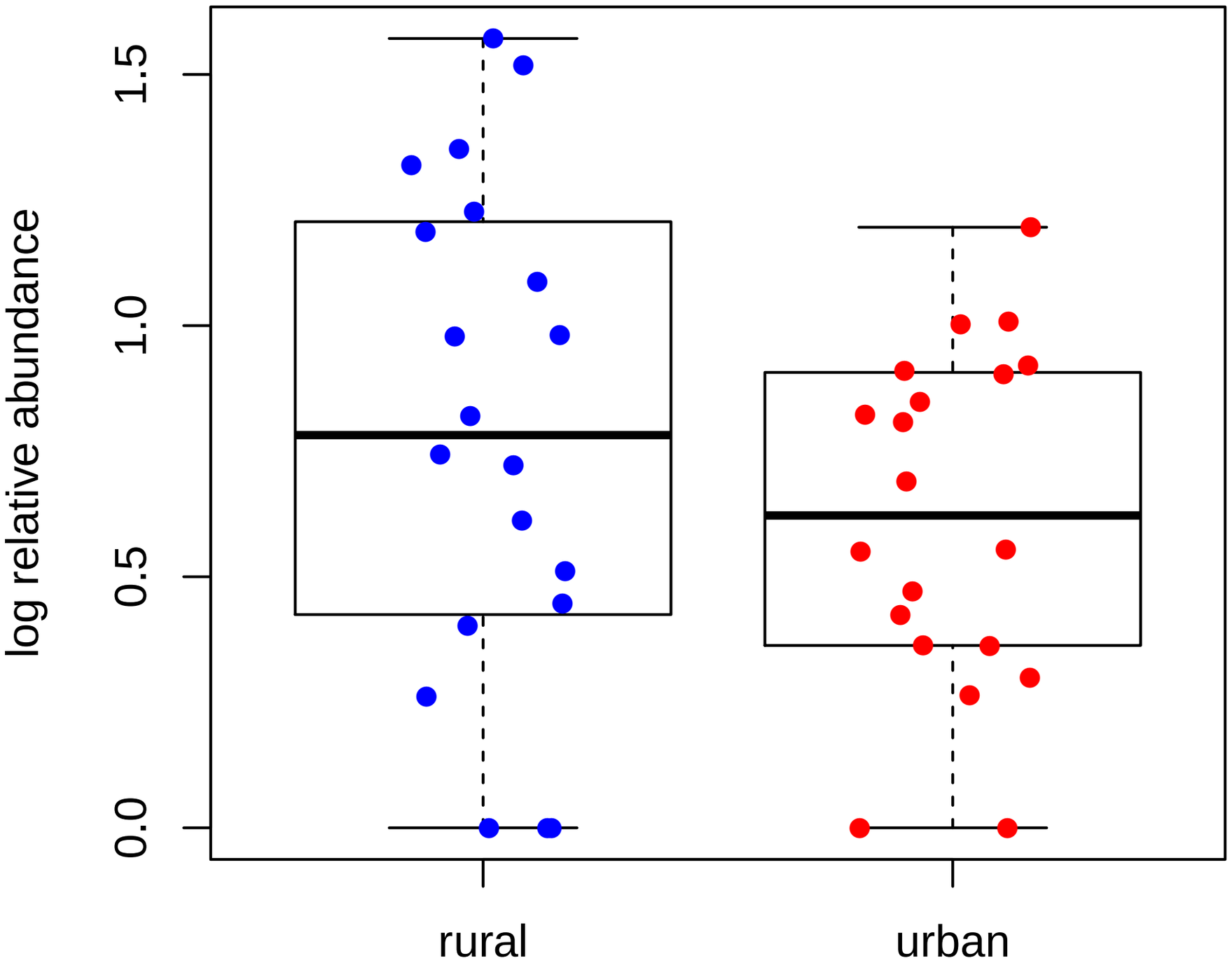

WGS species: Emticicia_oligotrophica
pAdjRuralUrban= 0.406
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

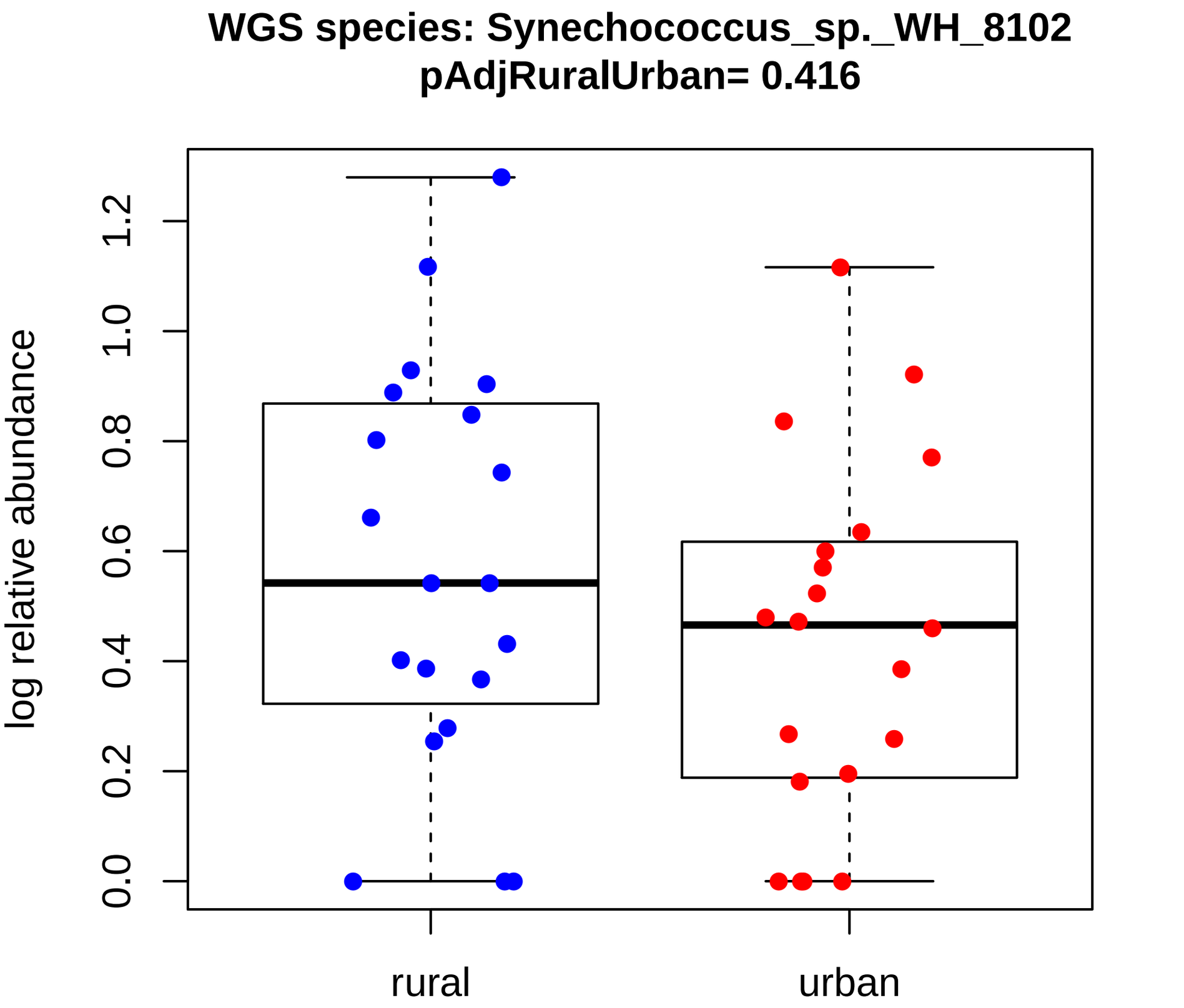

WGS species: Acidiphilium_cryptum
pAdjRuralUrban= 0.408
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

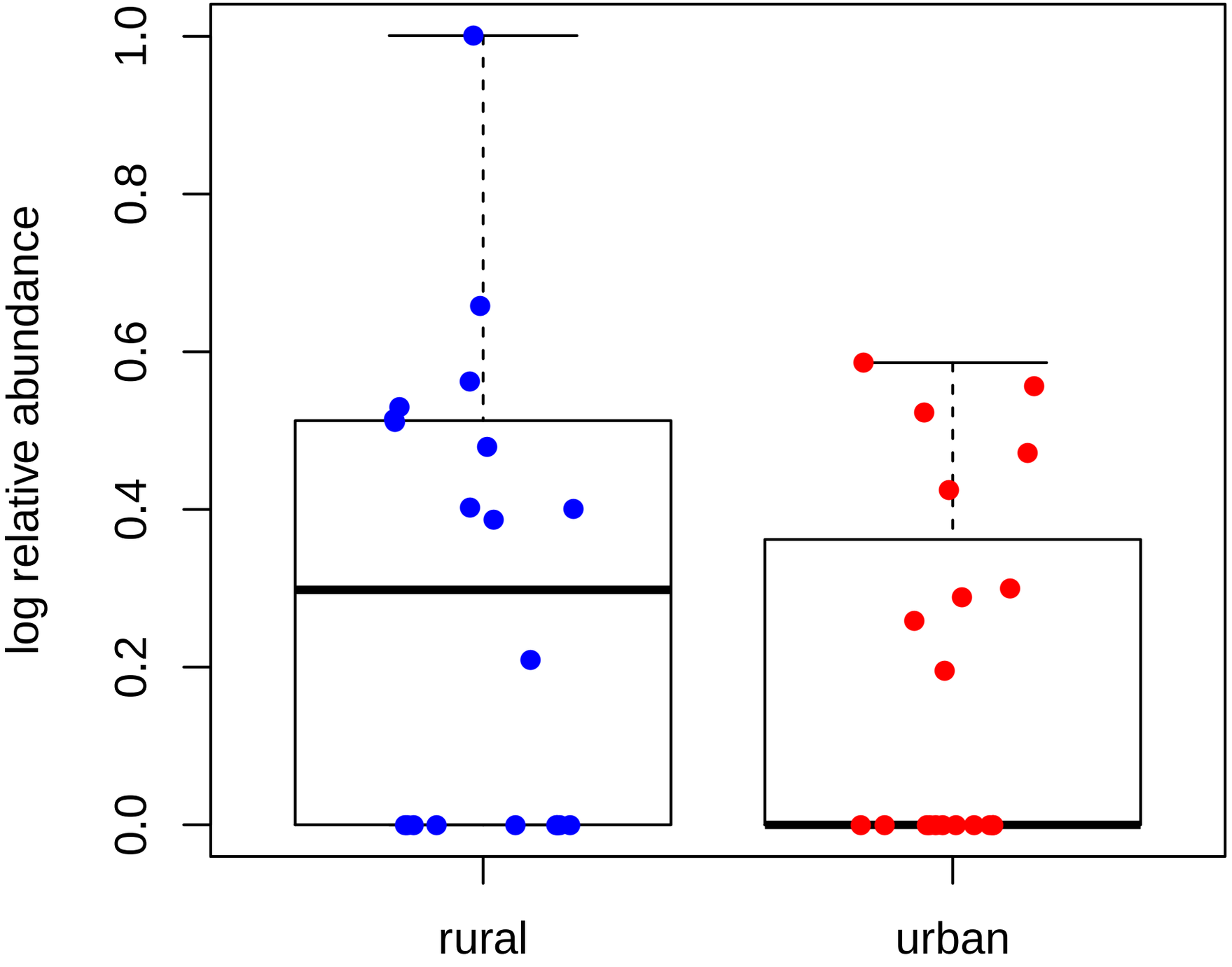

WGS species: Acetobacterium_woodii
pAdjRuralUrban= 0.408
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

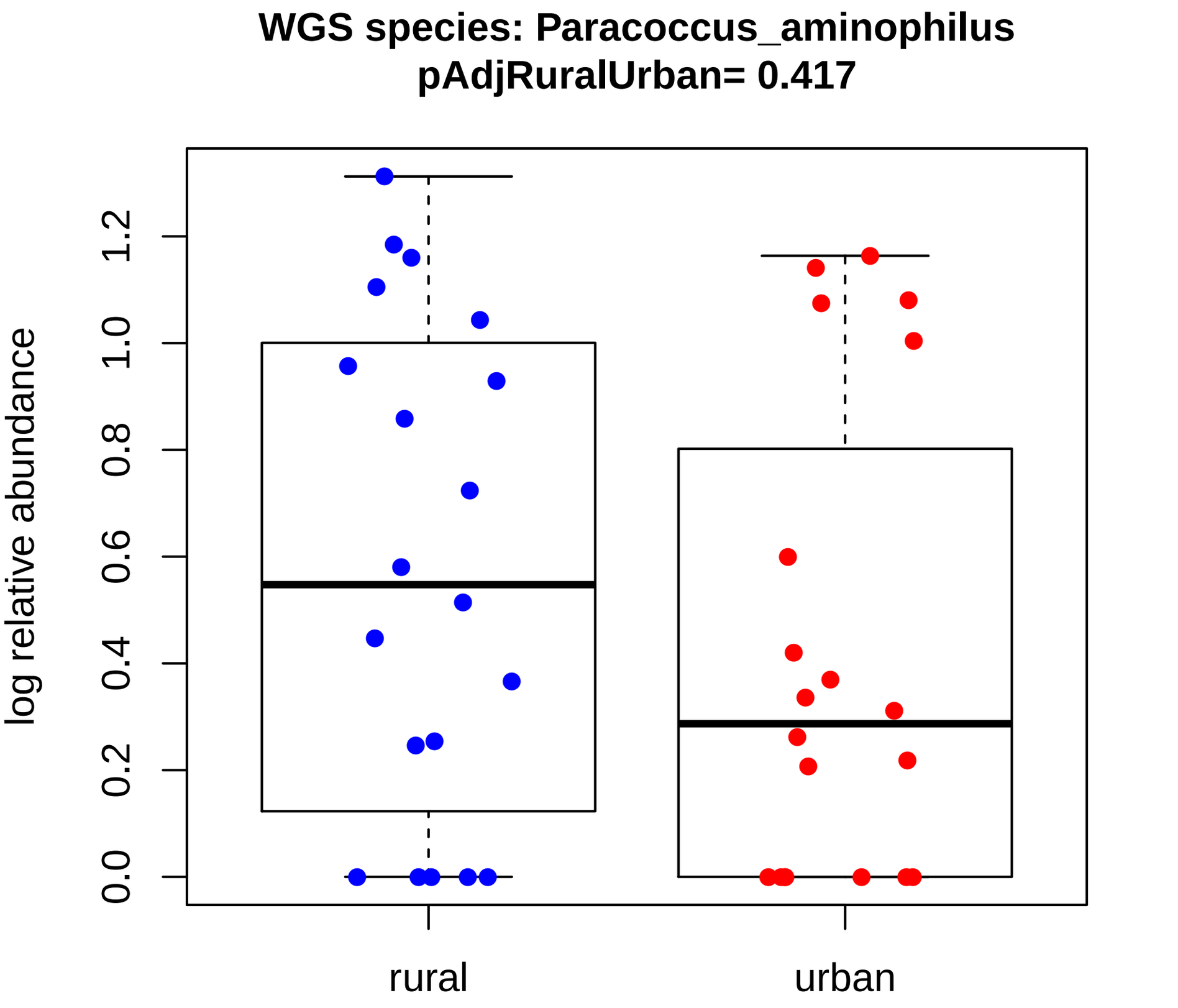

WGS species: Neisseria_meningitidis
pAdjRuralUrban= 0.408
log relative abundance
0.5
1.0
1.5
rural
urban

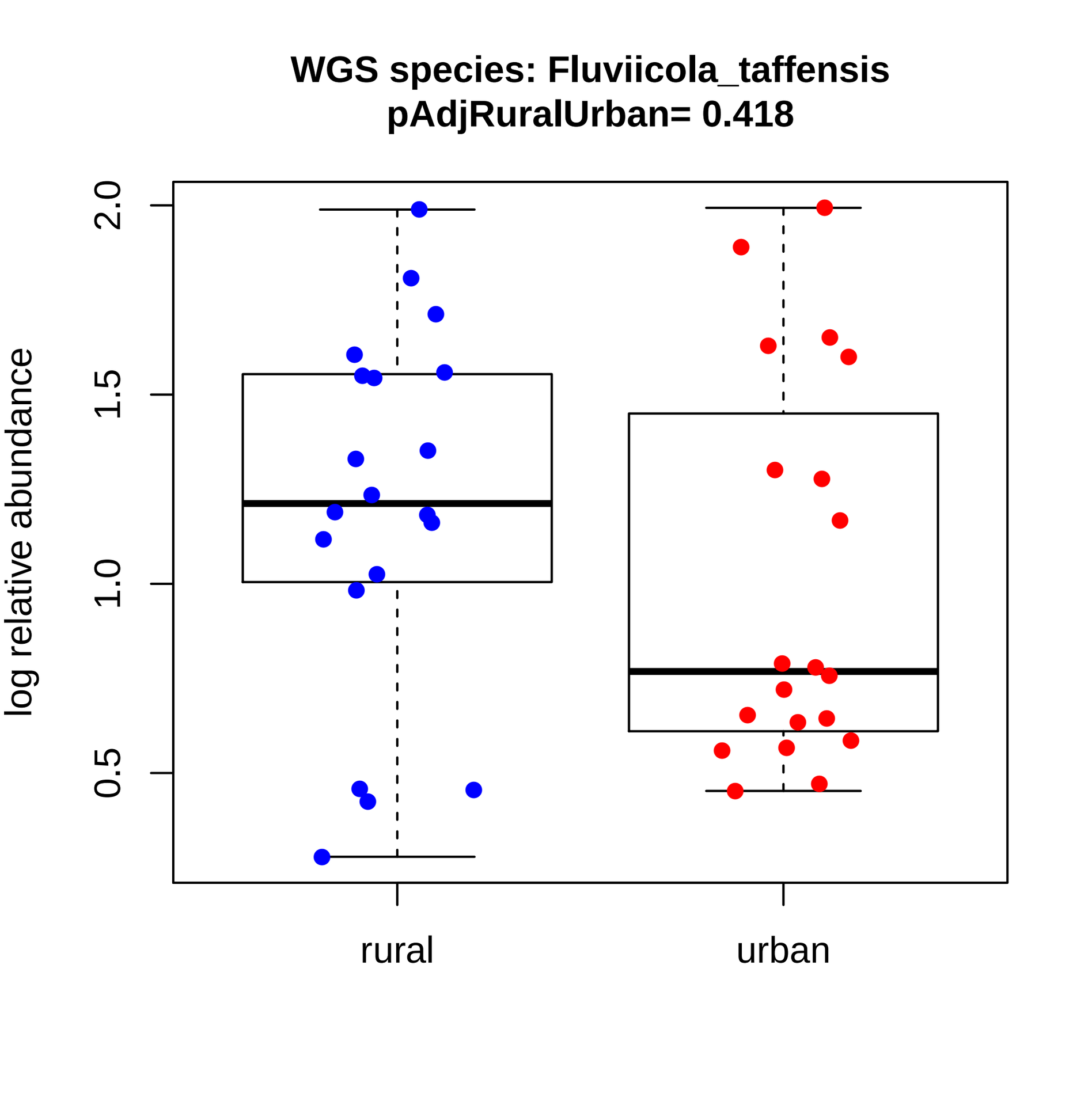

WGS species: Acidimicrobium_ferrooxidans
pAdjRuralUrban= 0.408
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

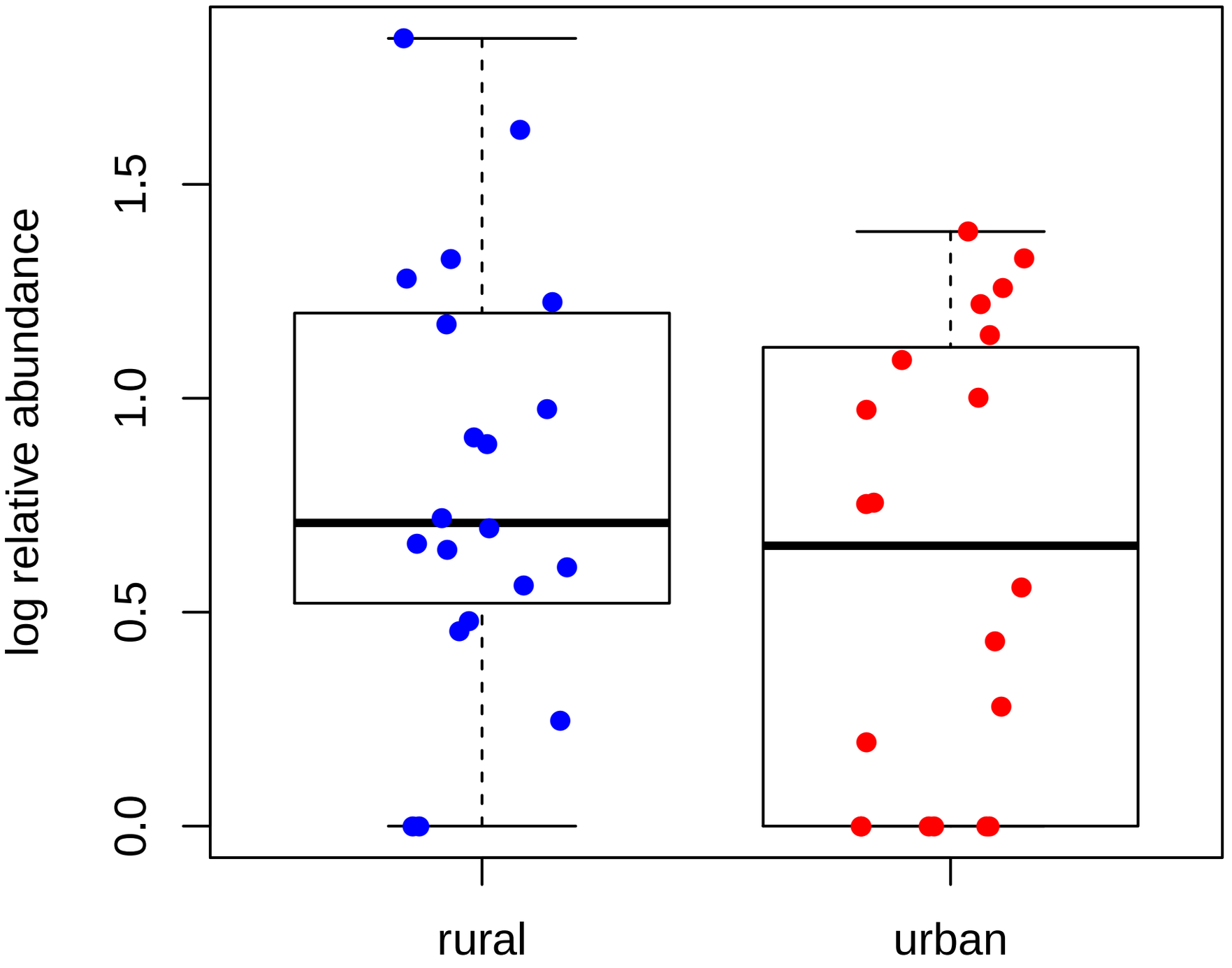

WGS species: Francisella_tularensis
pAdjRuralUrban= 0.415
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

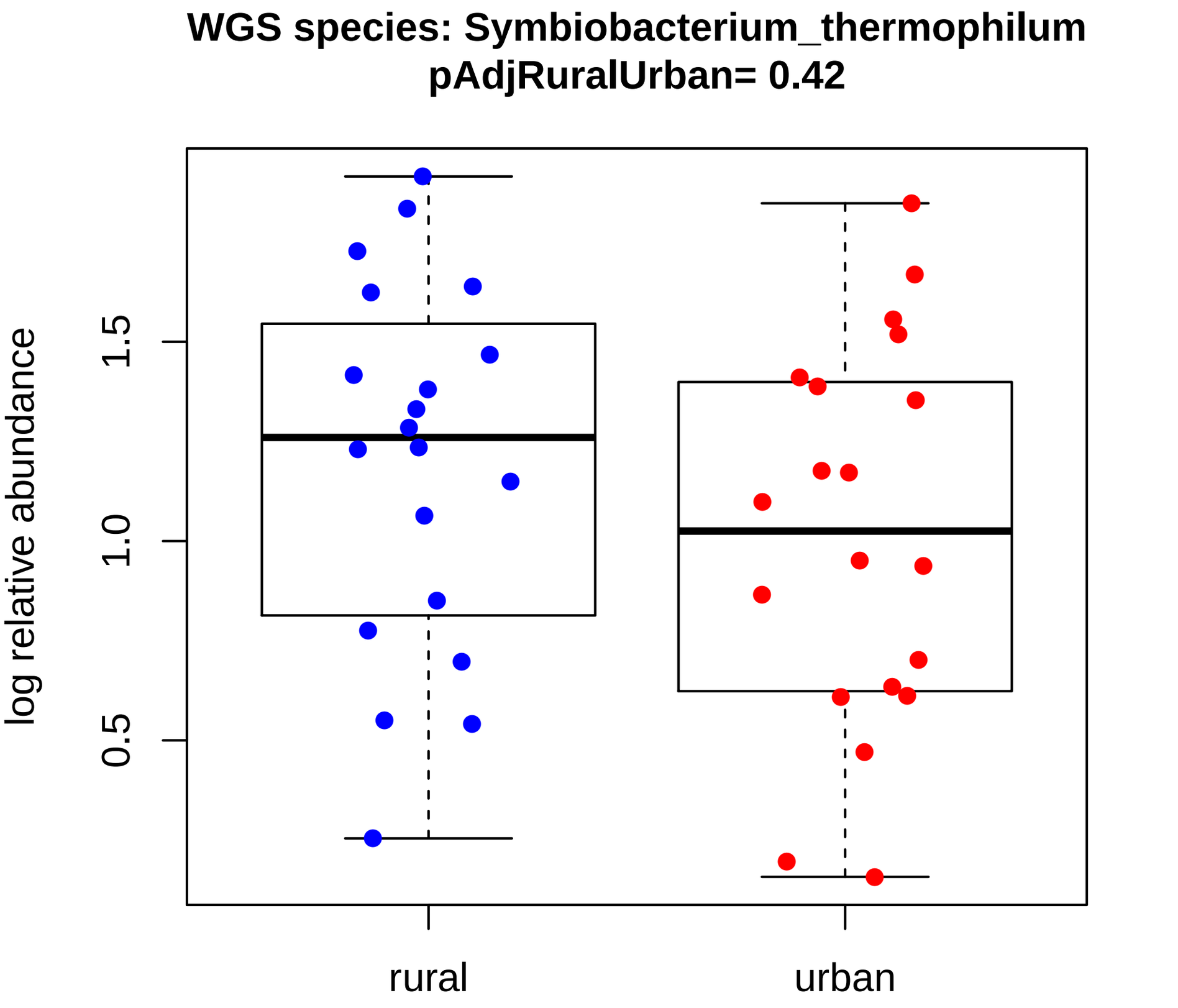

WGS species: Synechococcus_sp._WH_8102
pAdjRuralUrban= 0.416
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

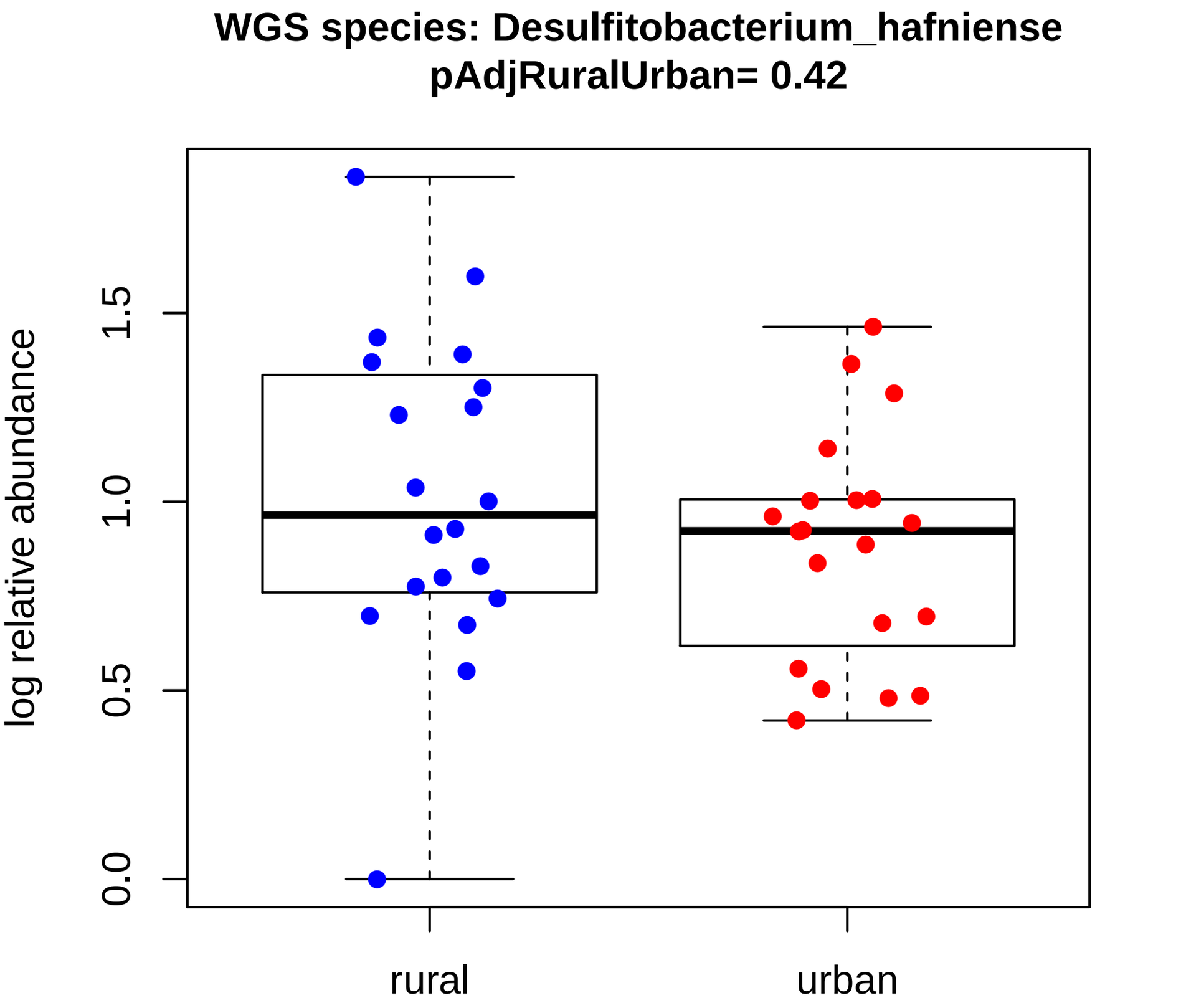

WGS species: Actinoplanes_sp._SE50.110
pAdjRuralUrban= 0.417
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

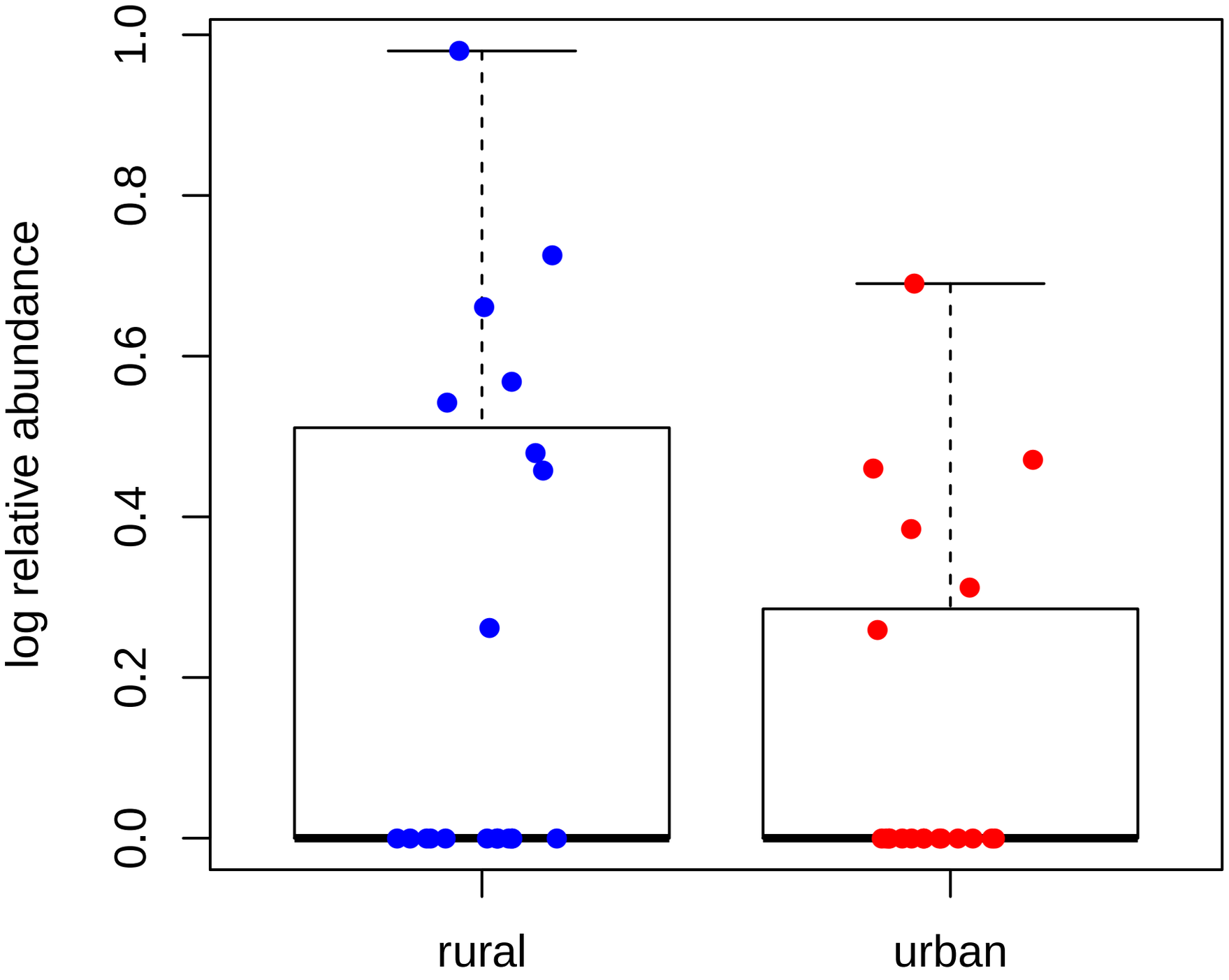

WGS species: Paracoccus_aminophilus
pAdjRuralUrban= 0.417
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

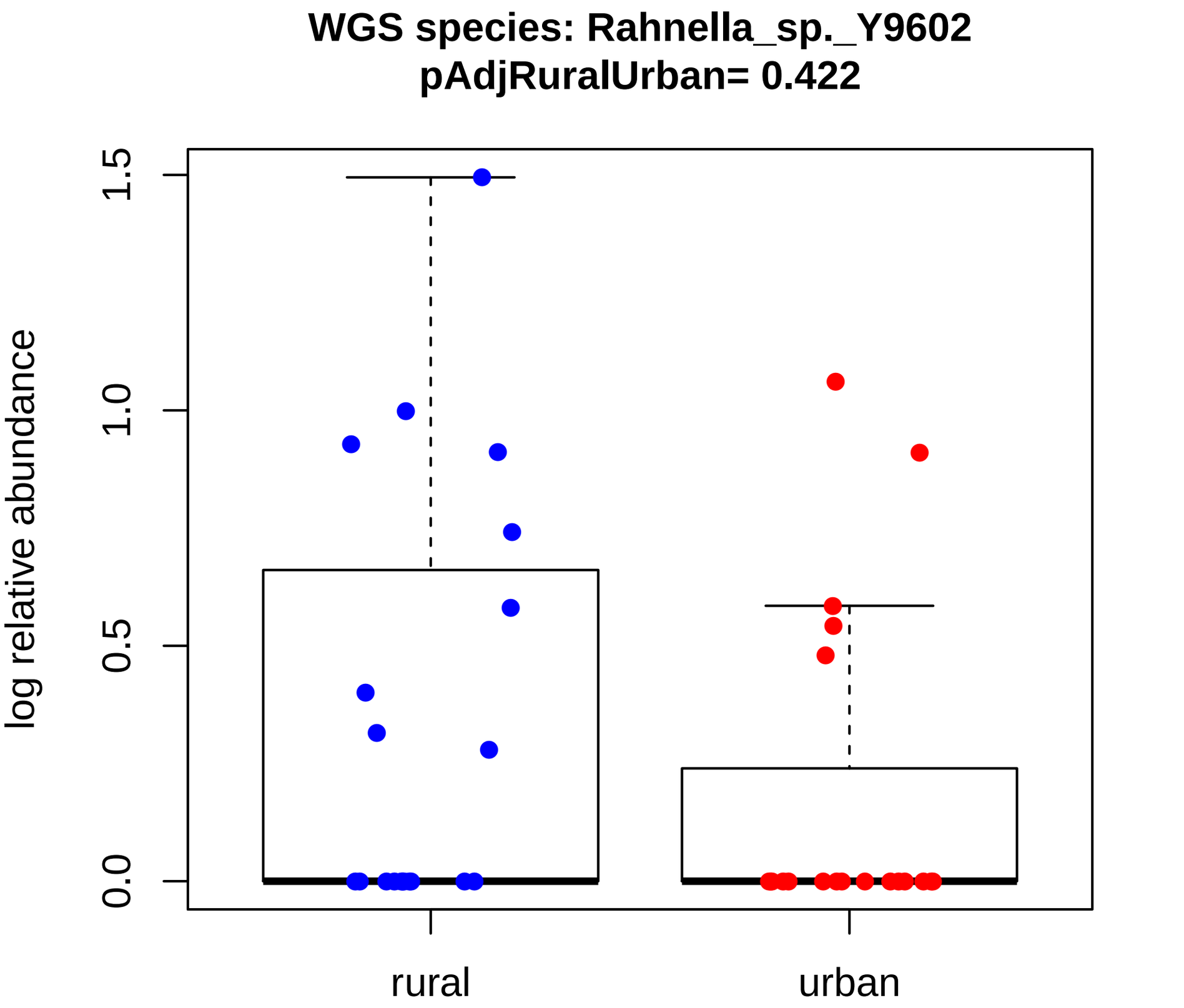

WGS species: Fluviicola_taffensis
pAdjRuralUrban= 0.418
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

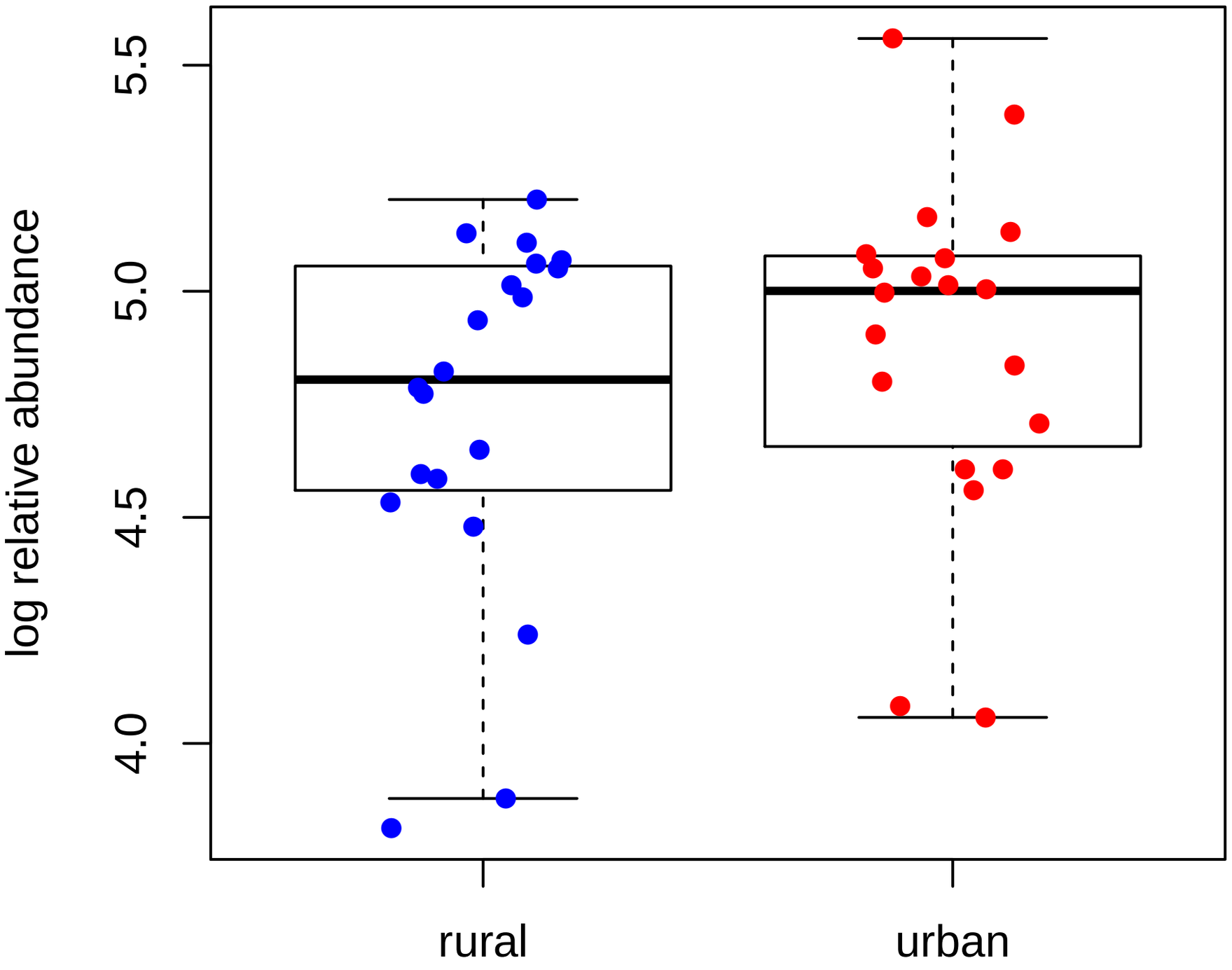

WGS species: Halanaerobium_hydrogeniformans
pAdjRuralUrban= 0.419
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

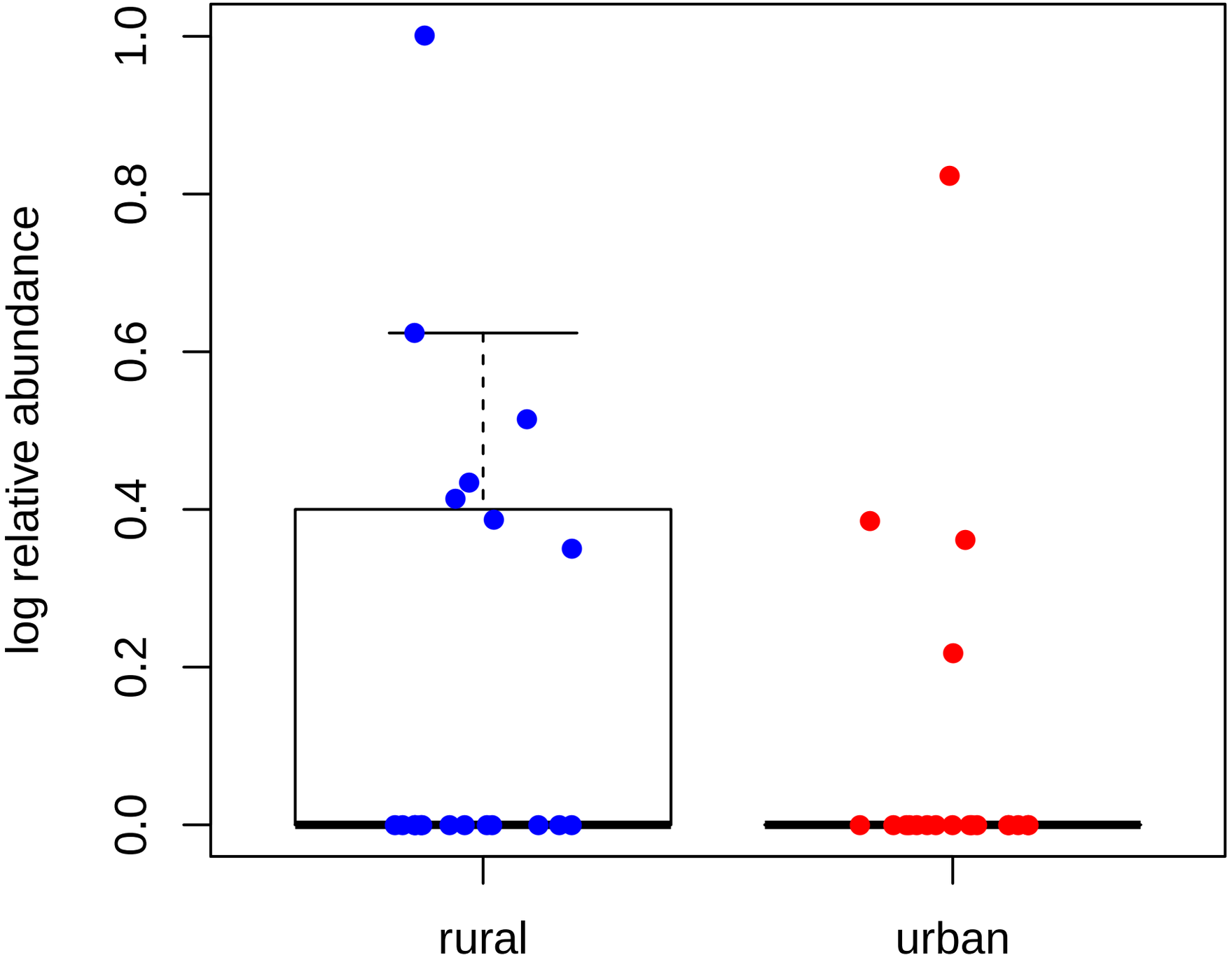

WGS species: Symbiobacterium_thermophilum
pAdjRuralUrban= 0.42
log relative abundance
0.5
1.0
1.5
rural
urban

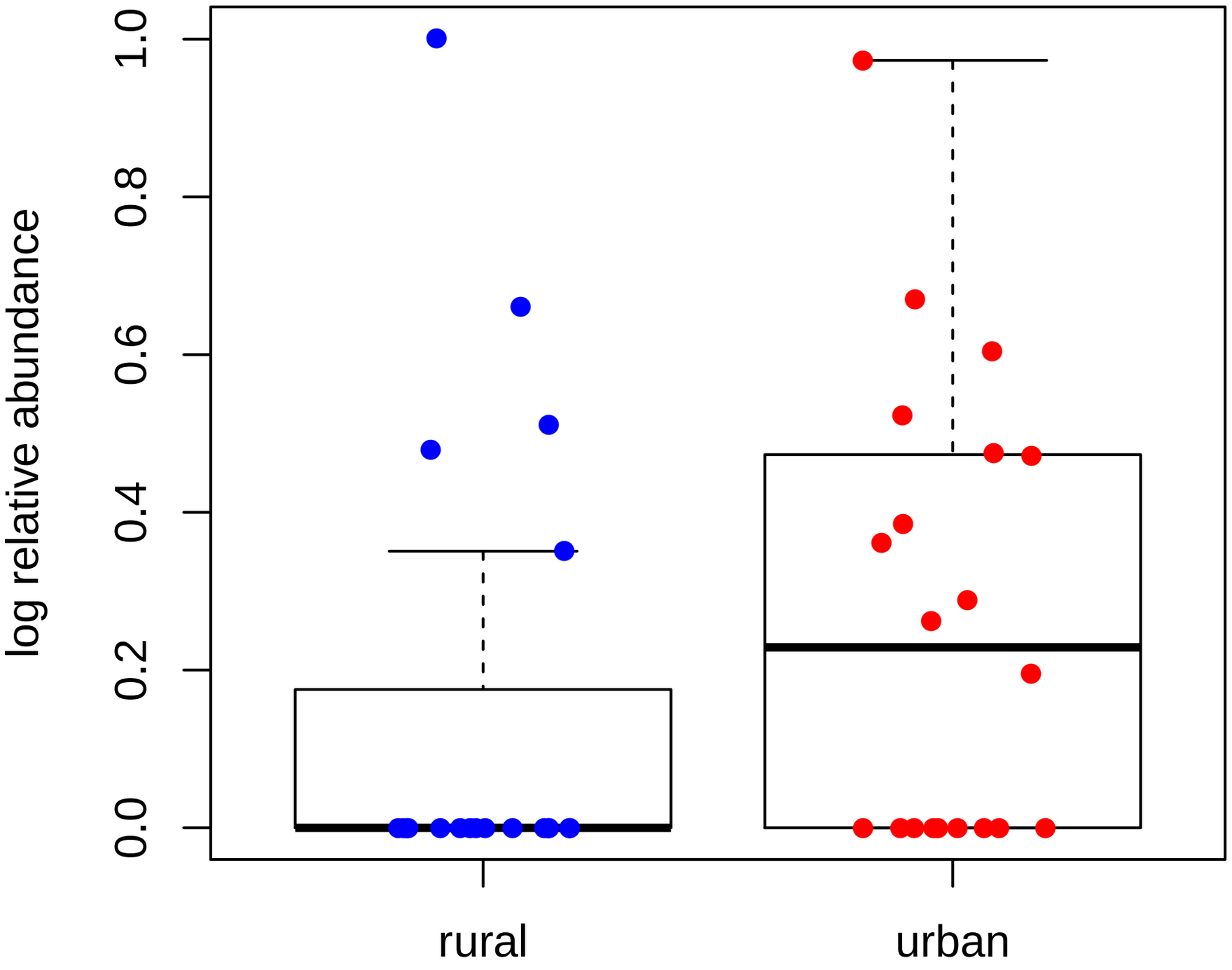

WGS species: Desulfitobacterium_hafniense
pAdjRuralUrban= 0.42
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

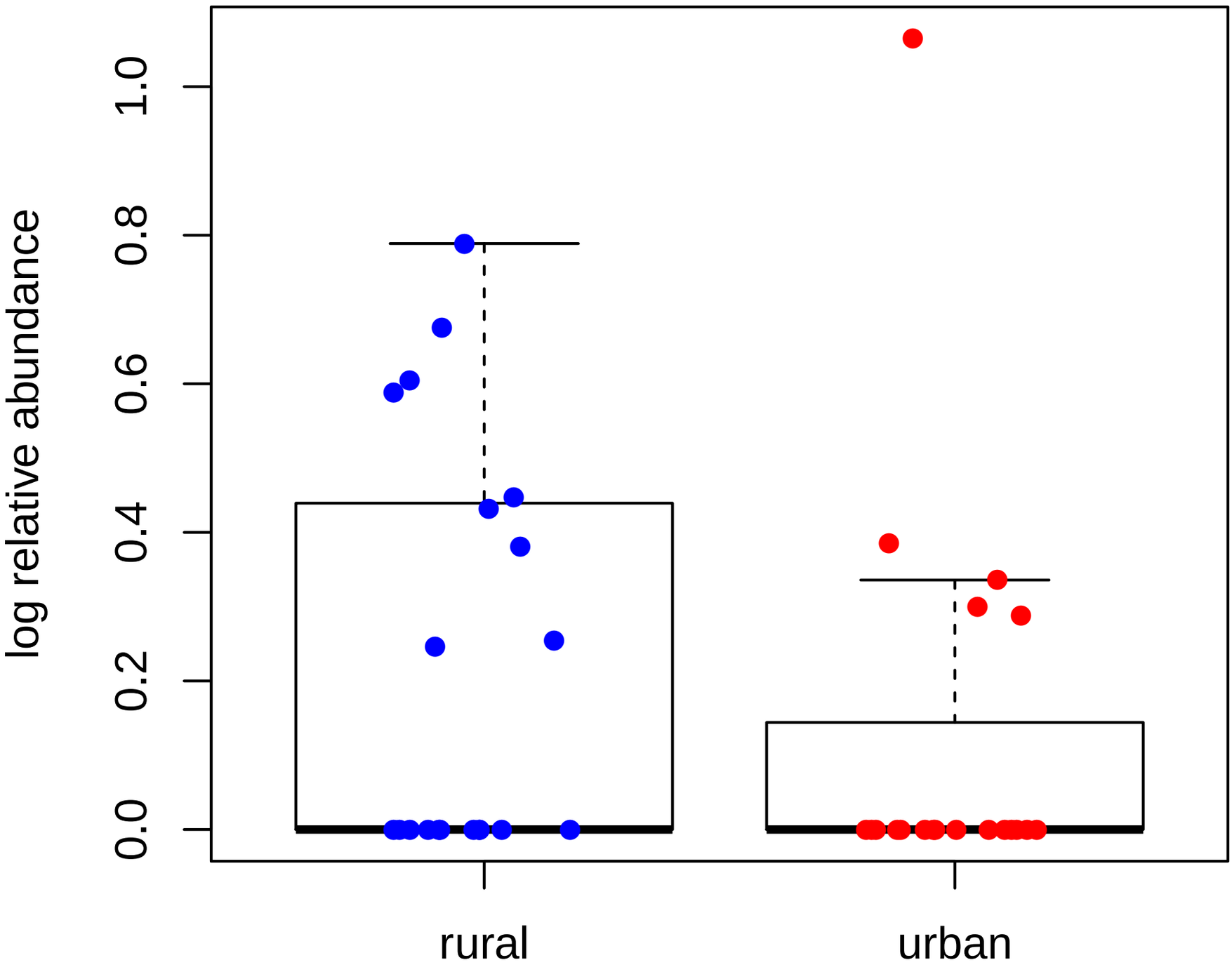

WGS species: Leptospirillum_ferrooxidans
pAdjRuralUrban= 0.422
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

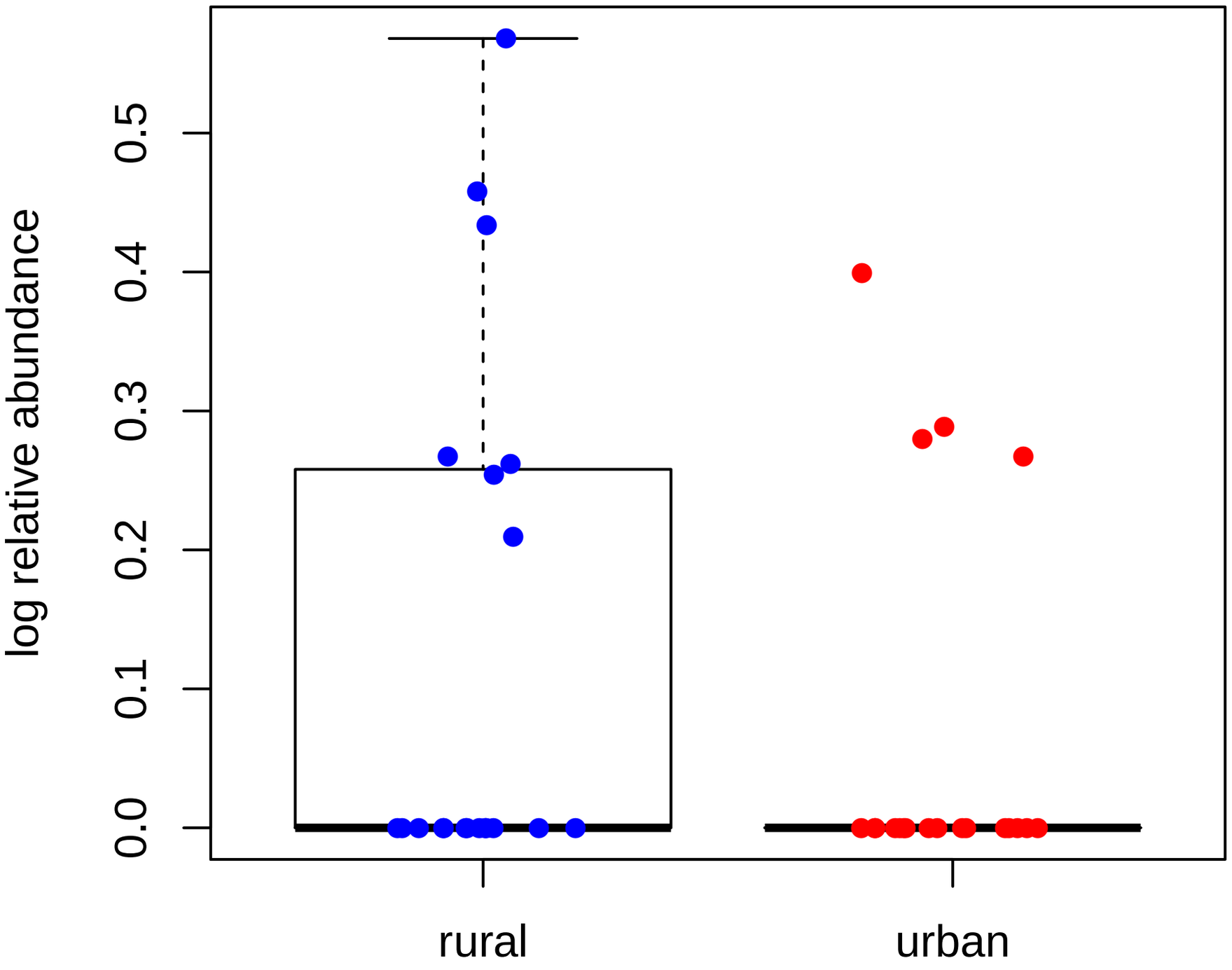

WGS species: Rahnella_sp._Y9602
pAdjRuralUrban= 0.422
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

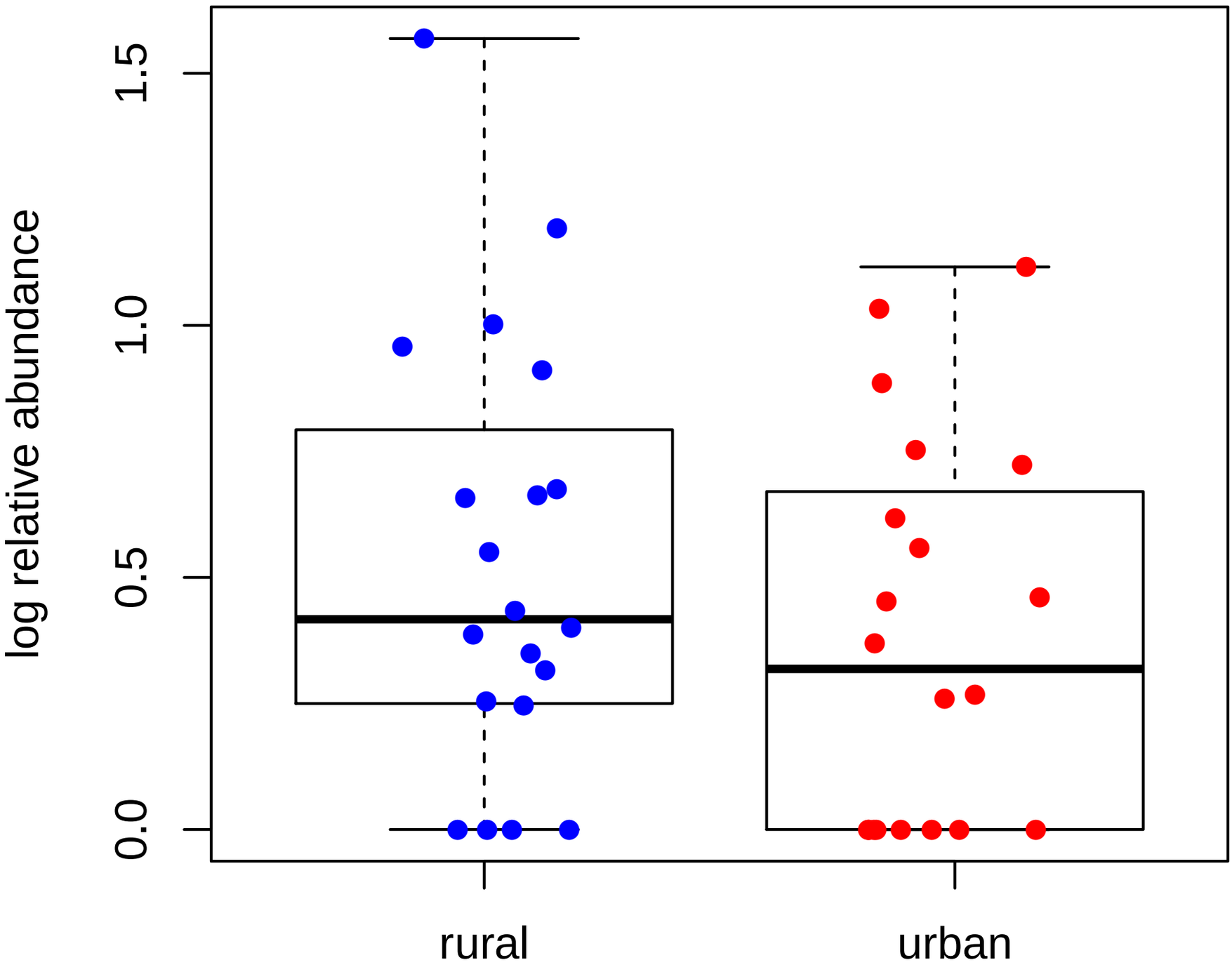

WGS species: Bacteroides_thetaiotaomicron
pAdjRuralUrban= 0.423
log relative abundance
4.0
4.5
5.0
5.5
rural
urban

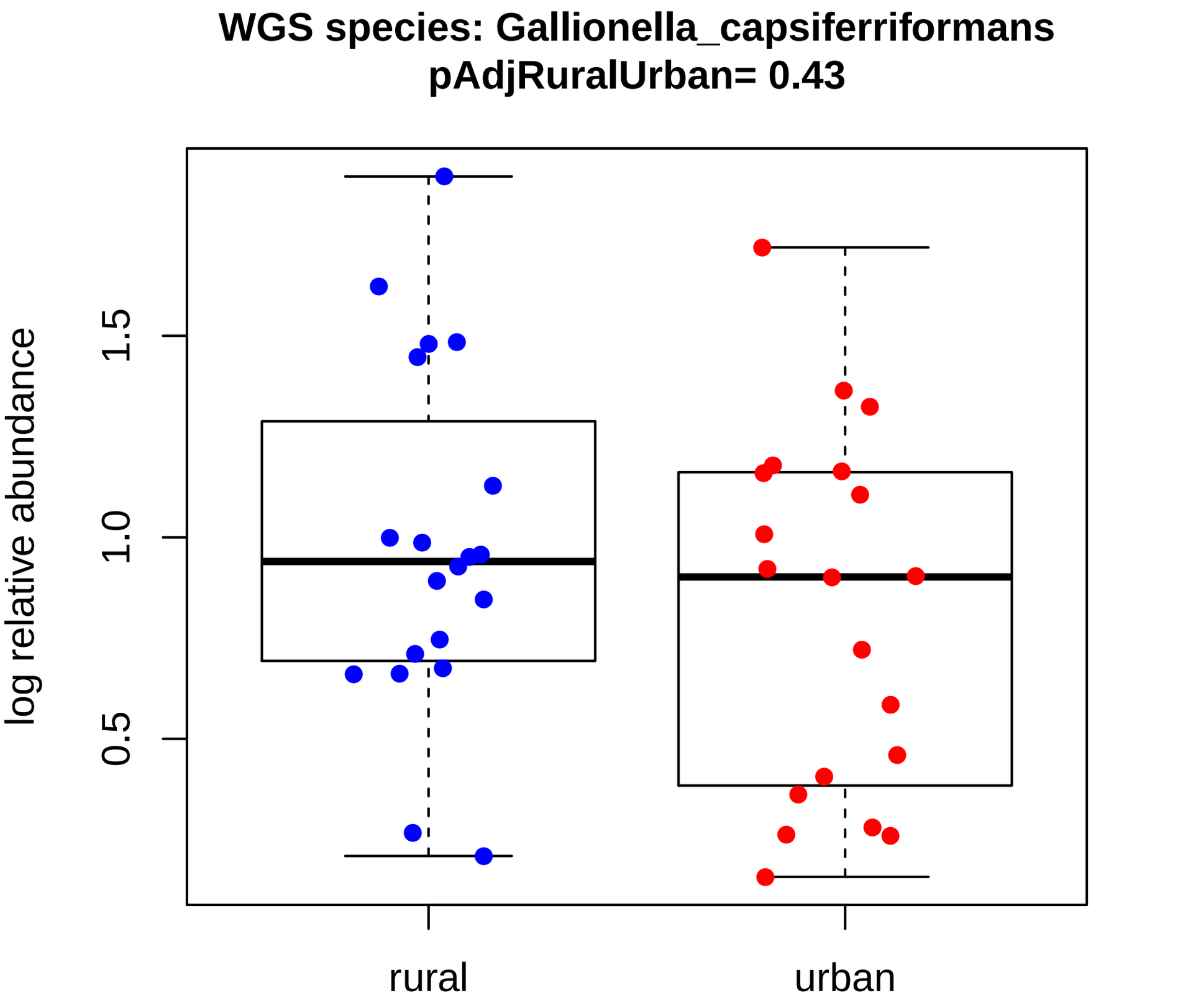

WGS species: Rickettsia_prowazekii
pAdjRuralUrban= 0.423
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

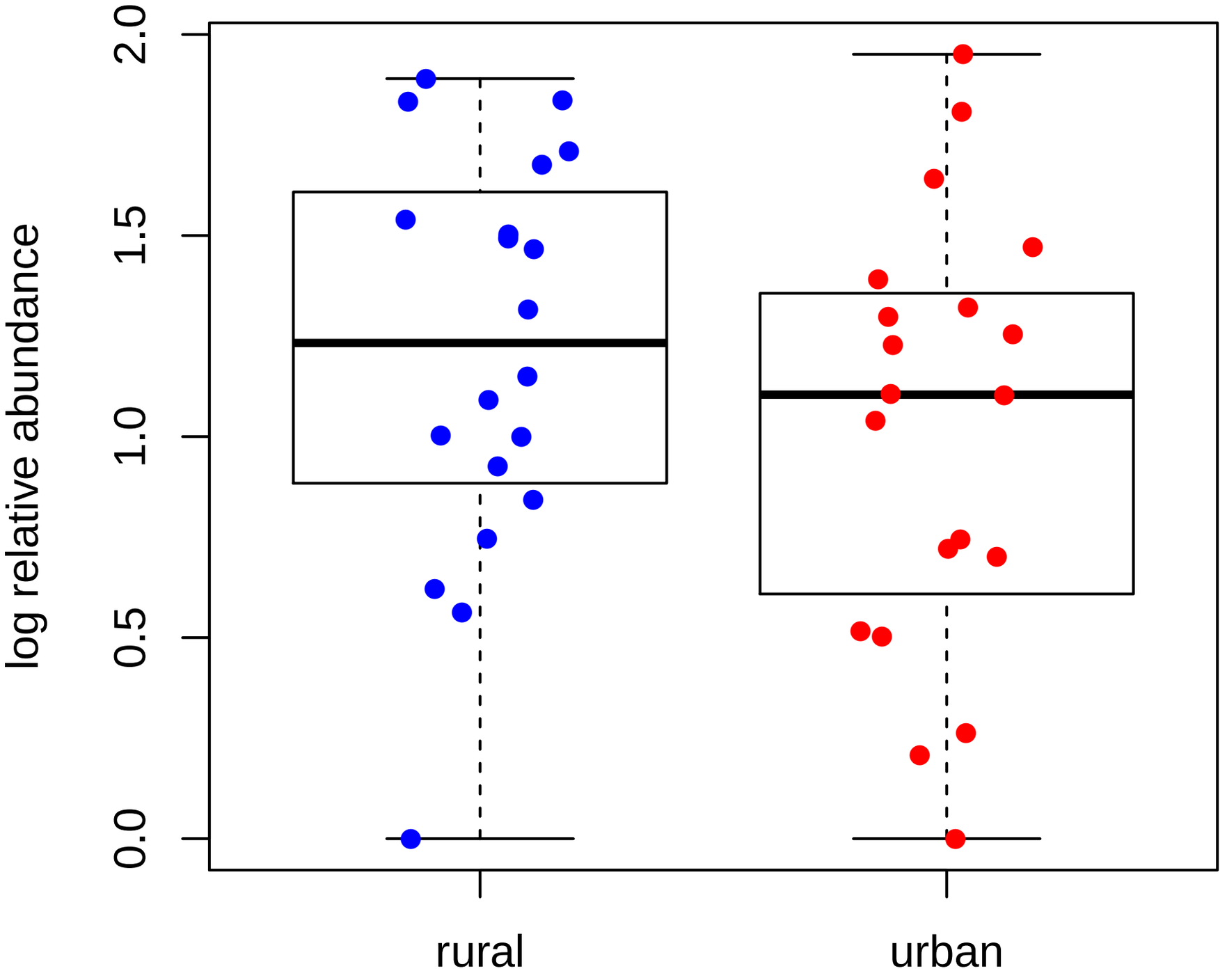

WGS species: Cellvibrio_japonicus
pAdjRuralUrban= 0.425
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

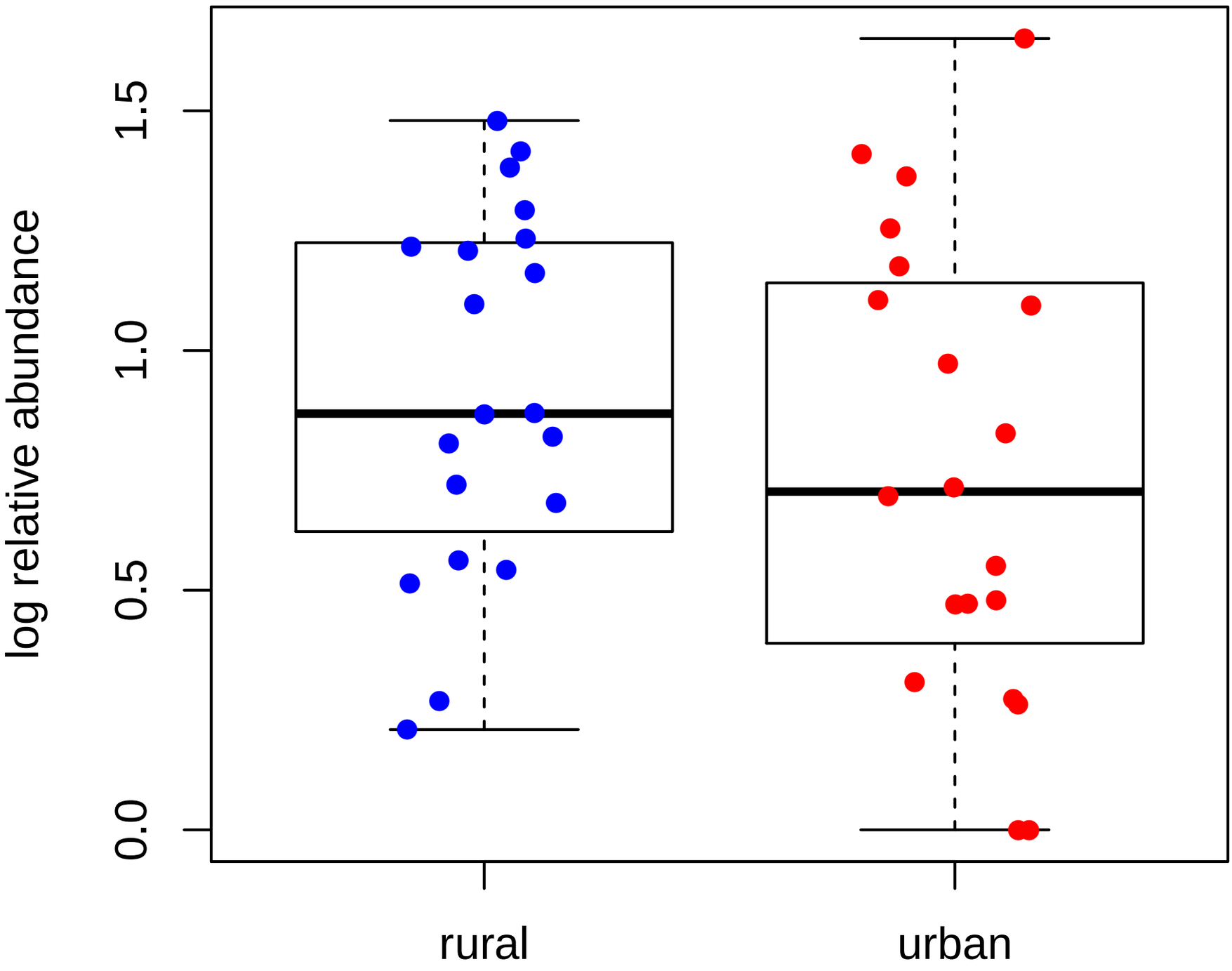

WGS species: Borrelia_turicatae
pAdjRuralUrban= 0.427
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

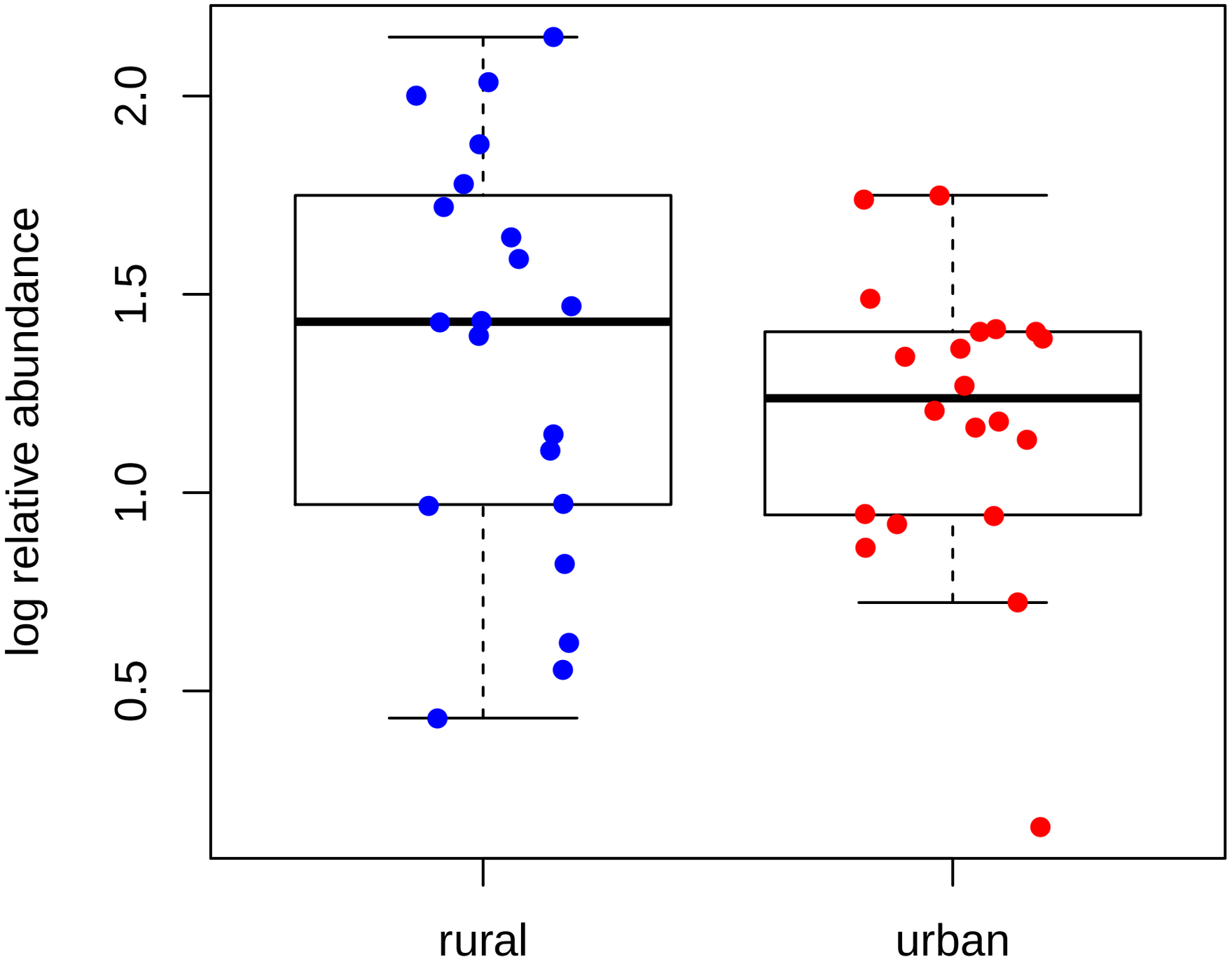

WGS species: Synechococcus_sp._PCC_6312
pAdjRuralUrban= 0.429
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
rural
urban

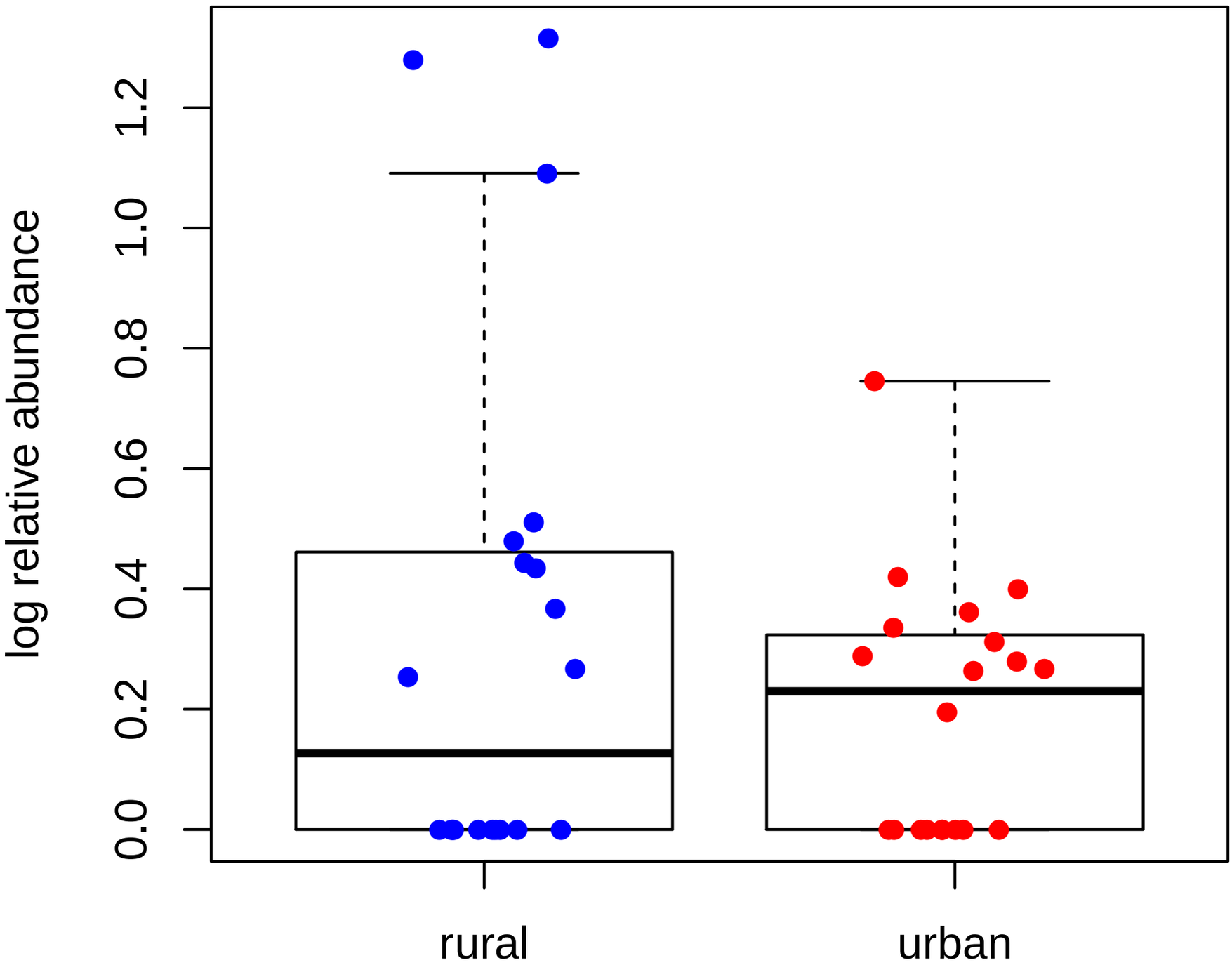

WGS species: Gloeobacter_kilaueensis
pAdjRuralUrban= 0.43
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

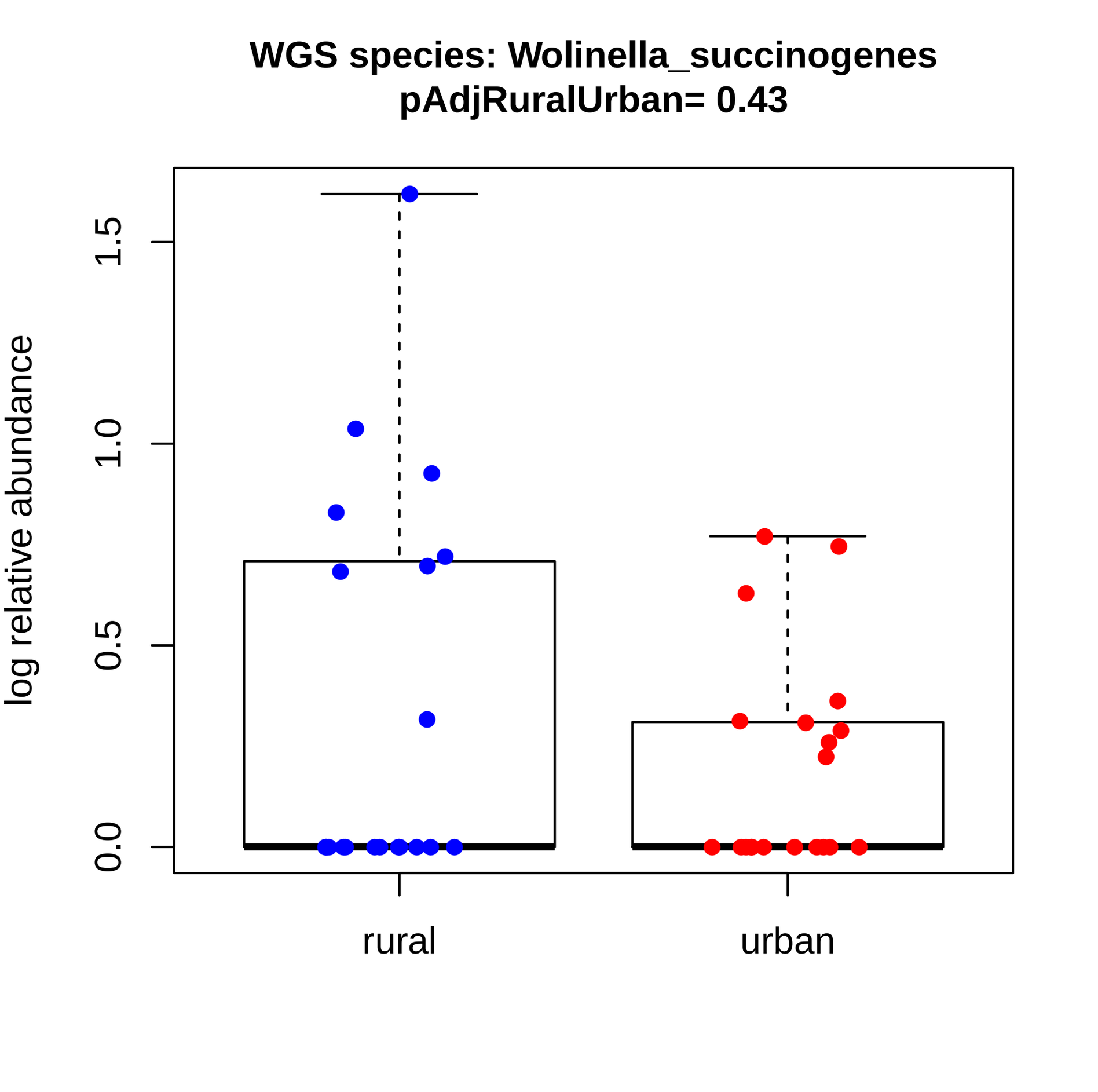

WGS species: Gallionella_capsiferriformans
pAdjRuralUrban= 0.43
log relative abundance
0.5
1.0
1.5
rural
urban

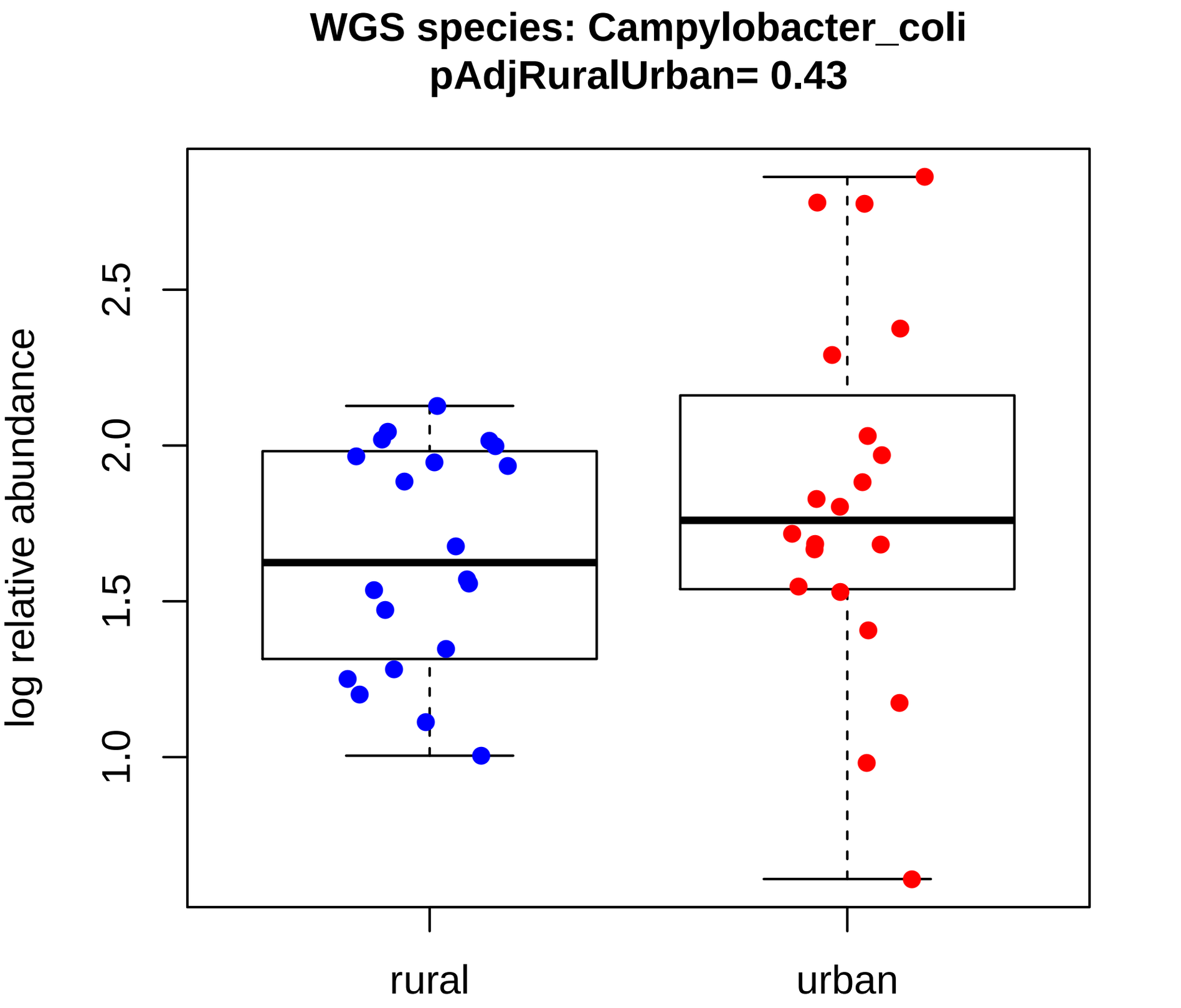

WGS species: Rhodopseudomonas_palustris
pAdjRuralUrban= 0.43
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

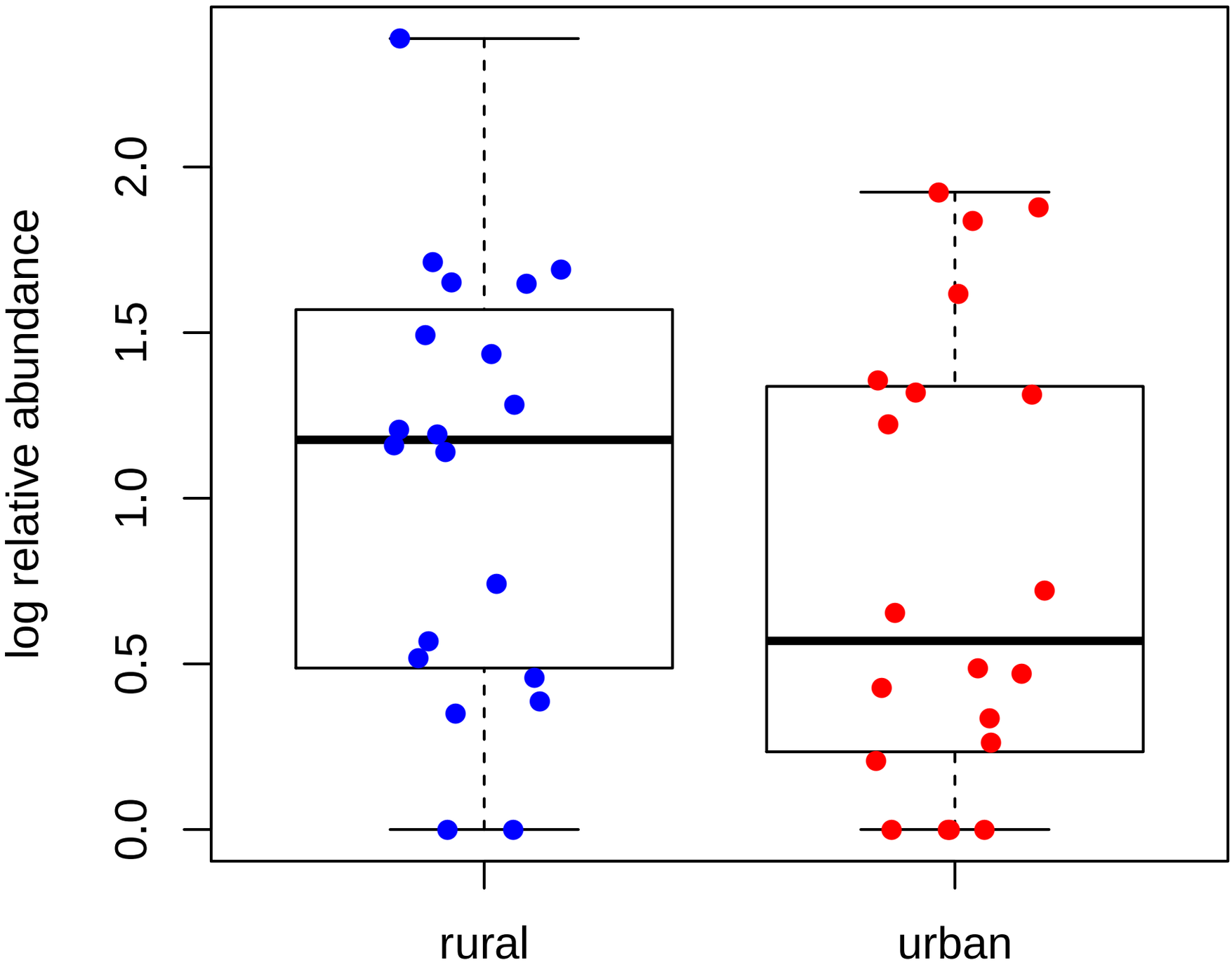

WGS species: Rhizobium_leguminosarum
pAdjRuralUrban= 0.43
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

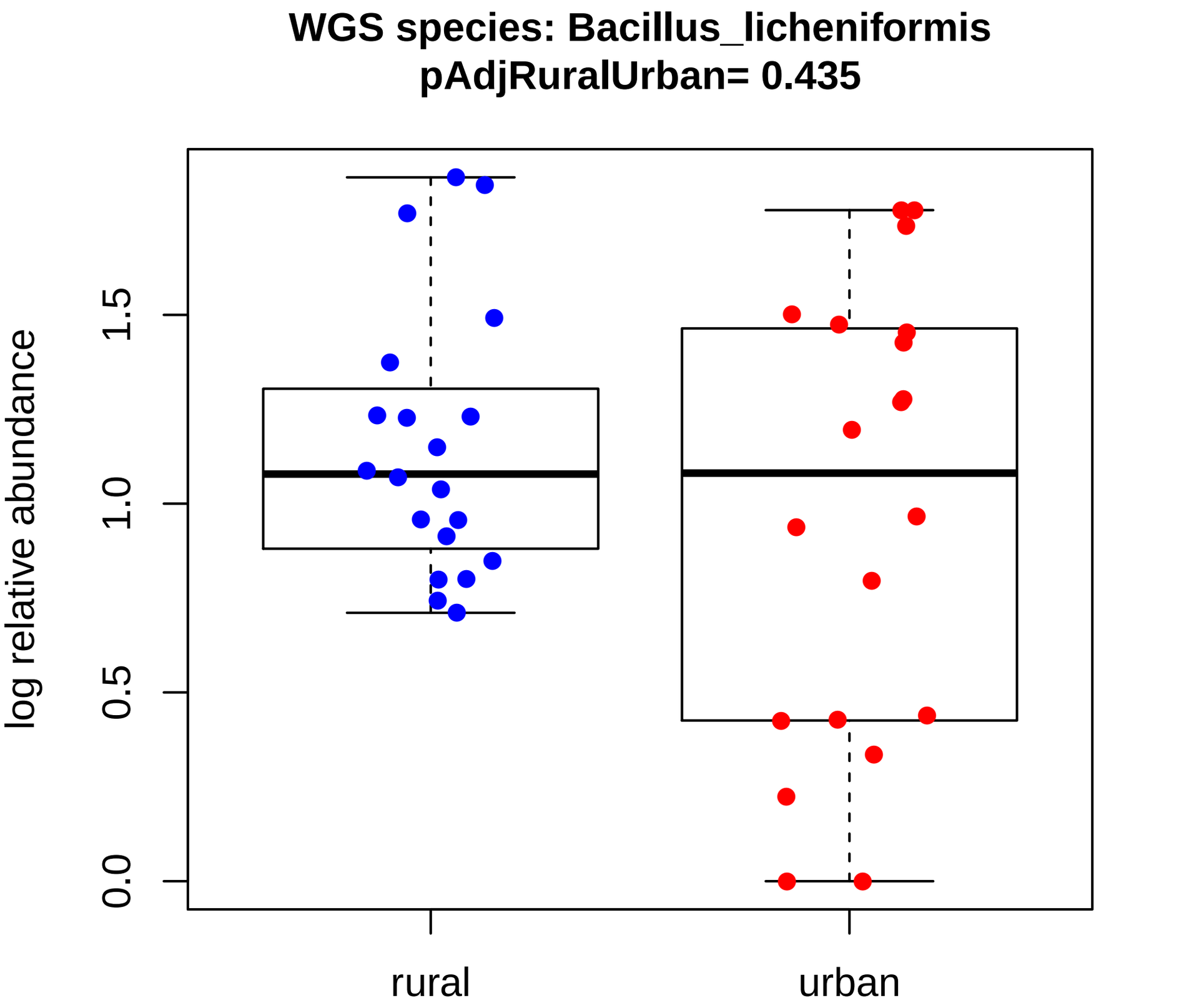

WGS species: Chitinophaga_pinensis
pAdjRuralUrban= 0.43
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

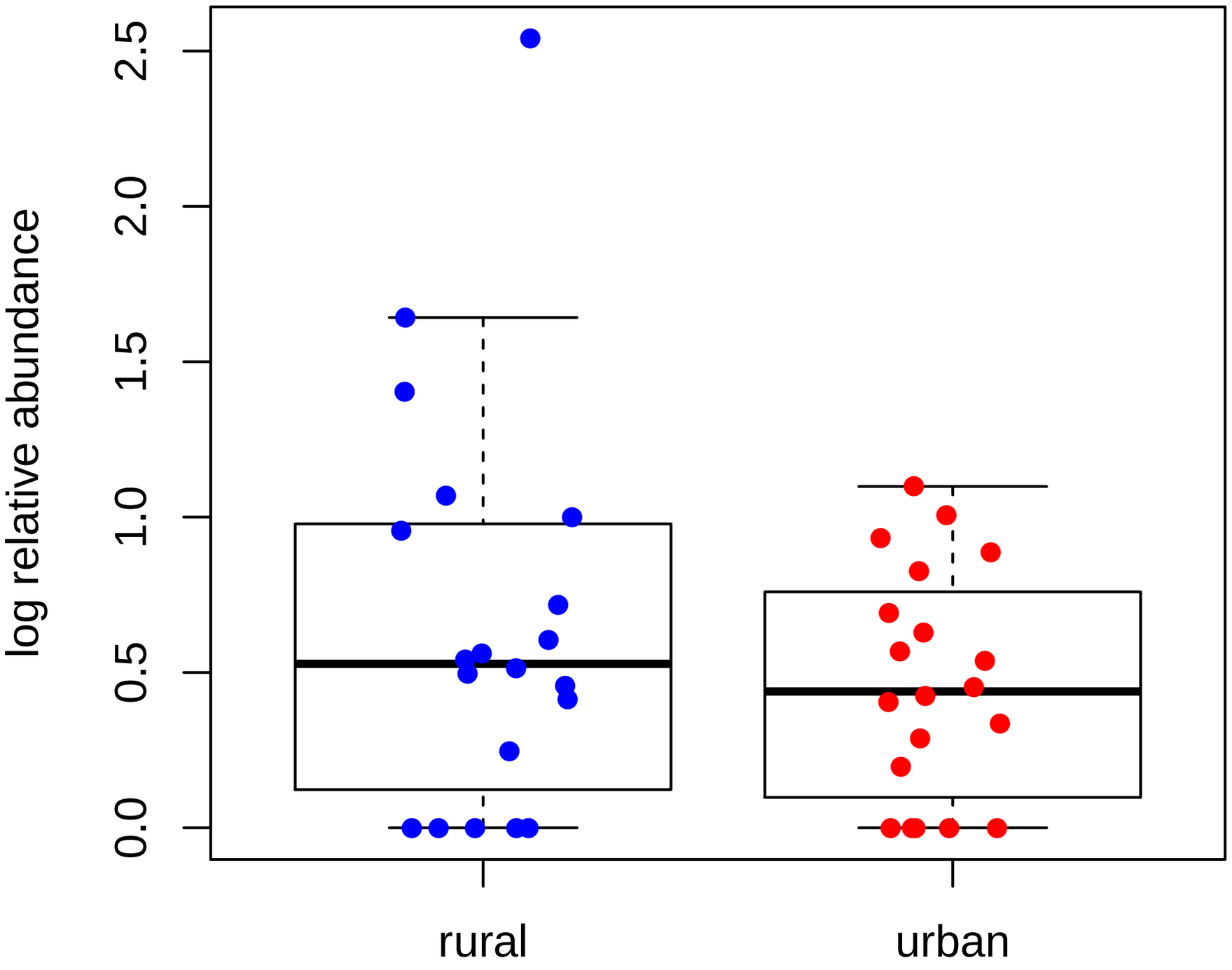

WGS species: Shewanella_violacea
pAdjRuralUrban= 0.43
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

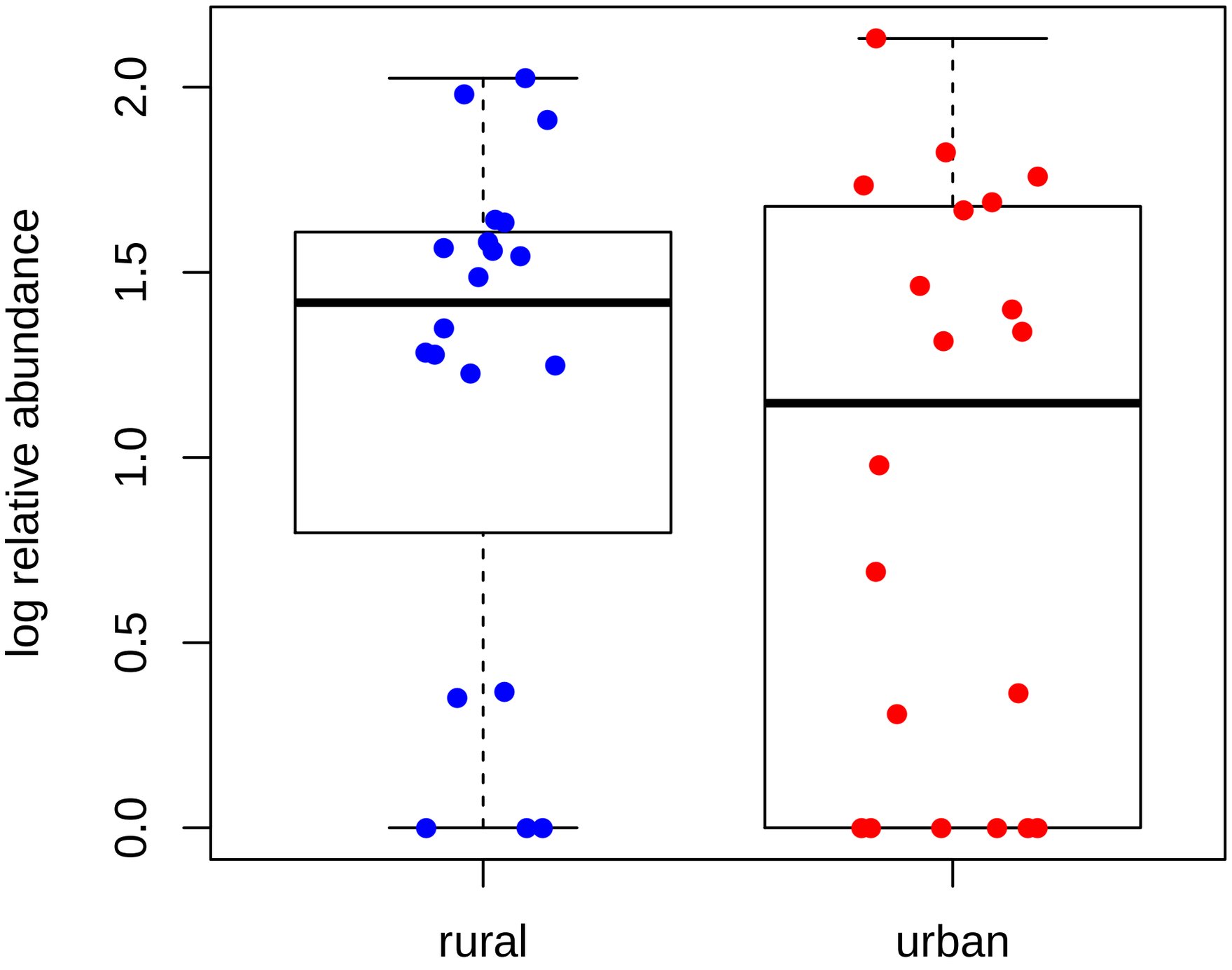

WGS species: Wolinella_succinogenes
pAdjRuralUrban= 0.43
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

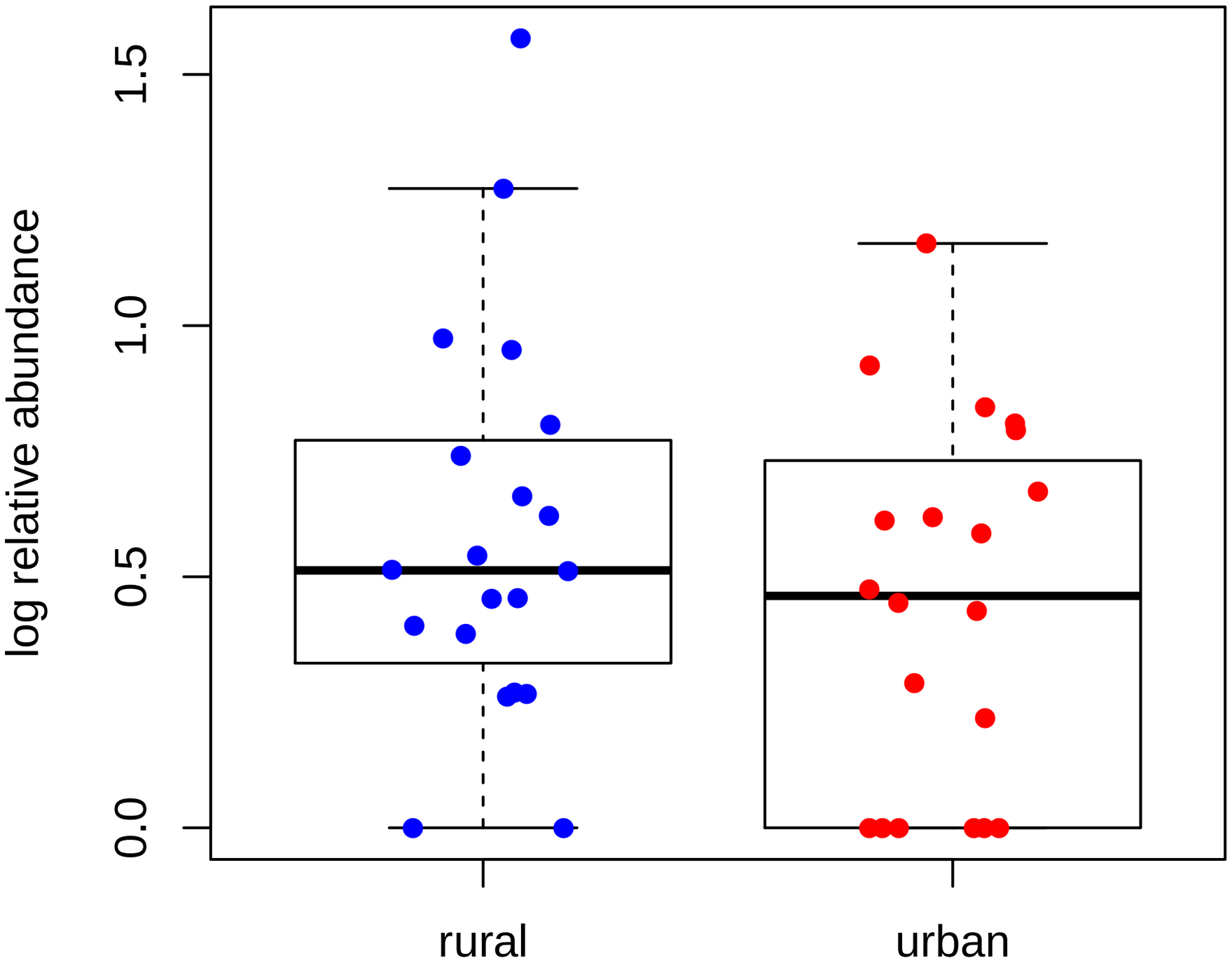

WGS species: Campylobacter_coli
pAdjRuralUrban= 0.43
log relative abundance
1.0
1.5
2.0
2.5
rural
urban

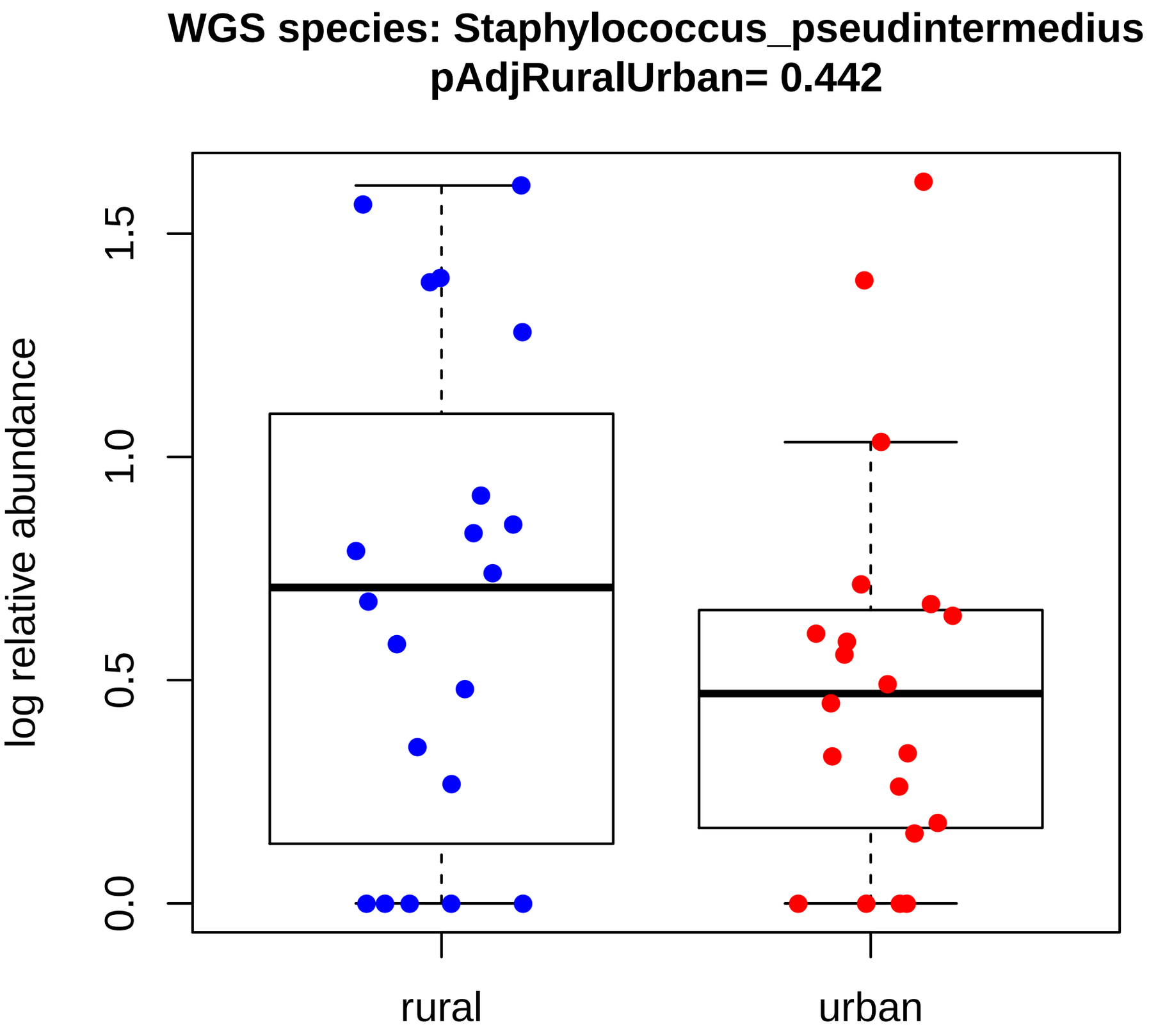

WGS species: Lactobacillus_buchneri
pAdjRuralUrban= 0.432
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

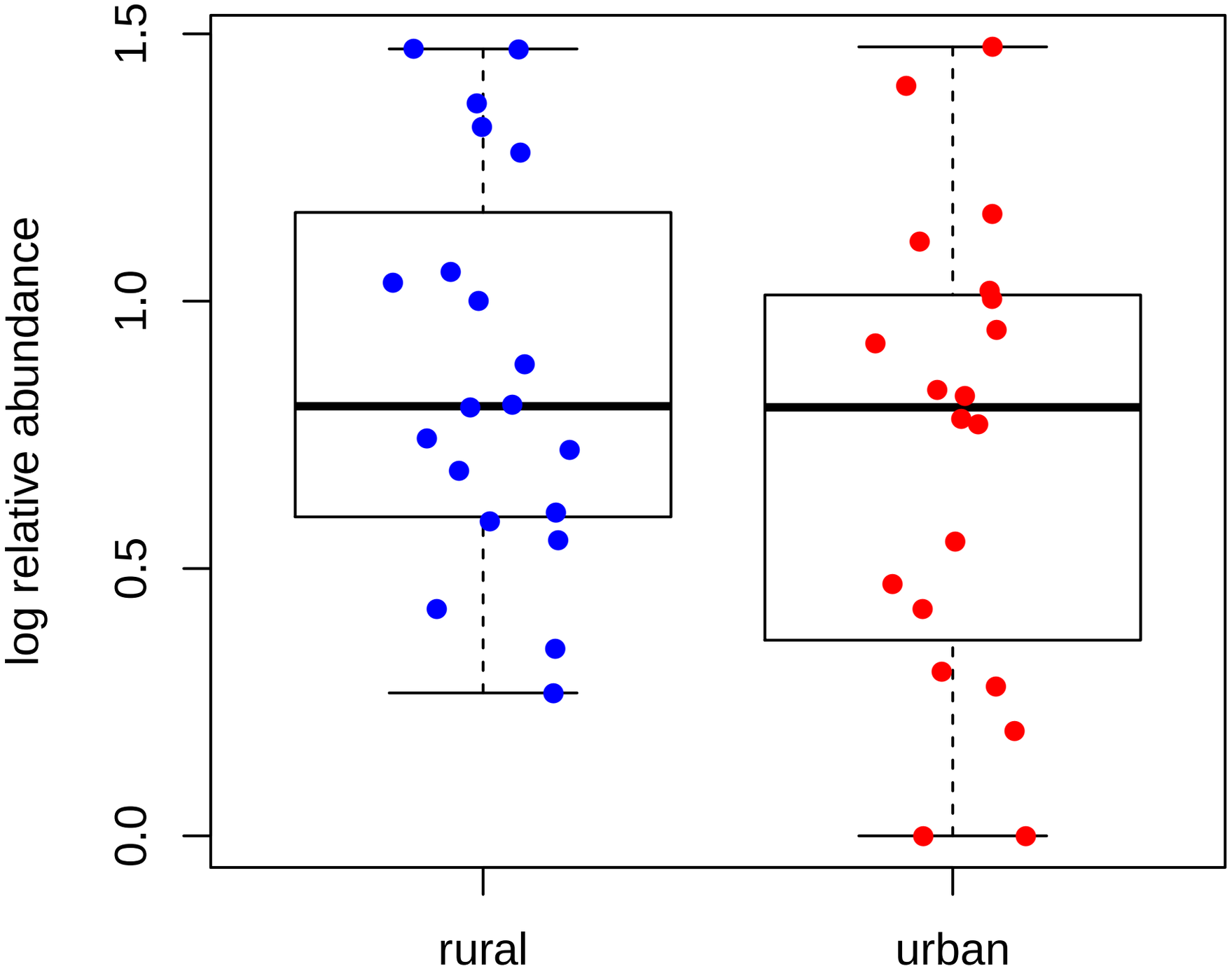

WGS species: Bacillus_licheniformis
pAdjRuralUrban= 0.435
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

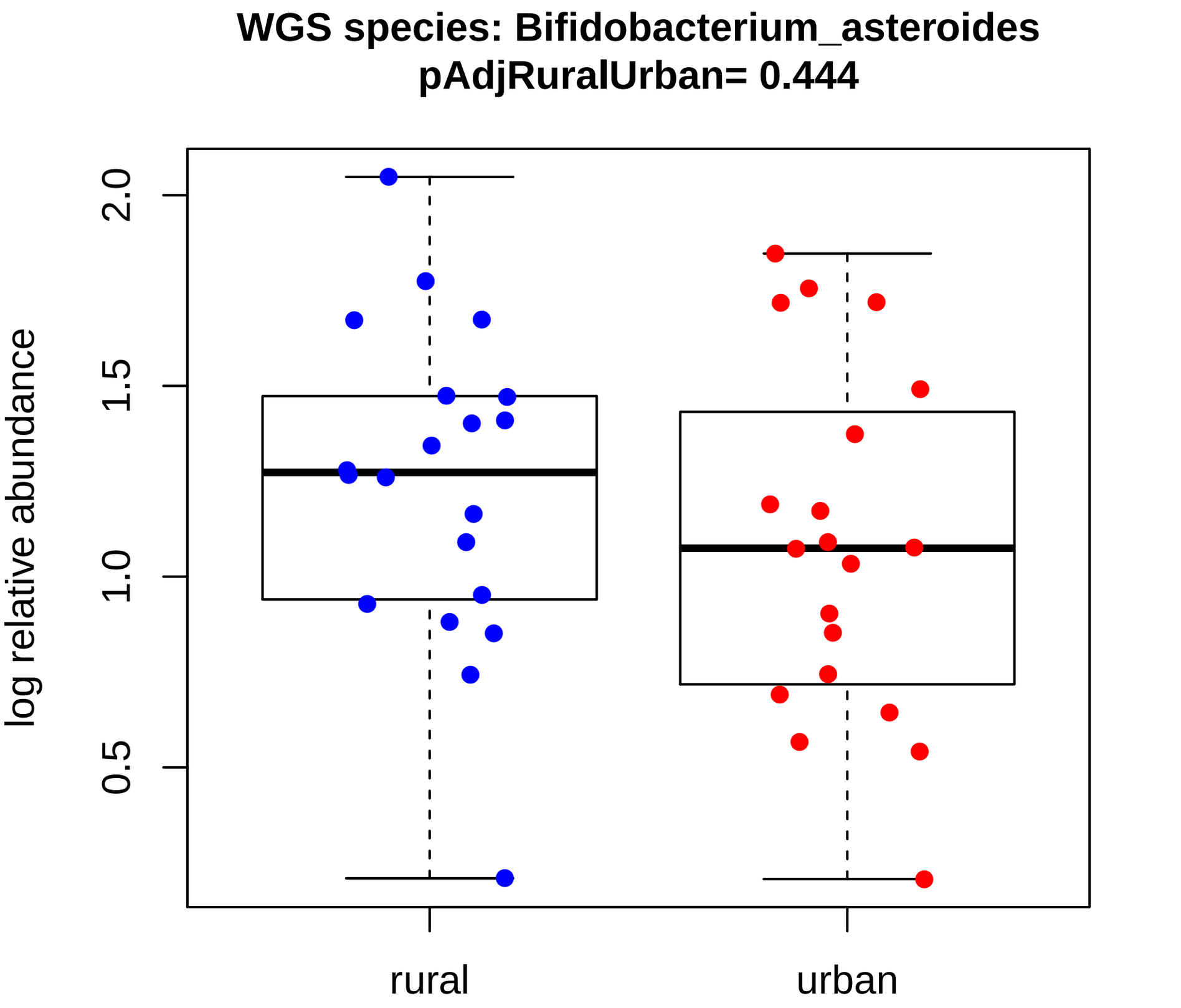

WGS species: Lactobacillus_brevis
pAdjRuralUrban= 0.439
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

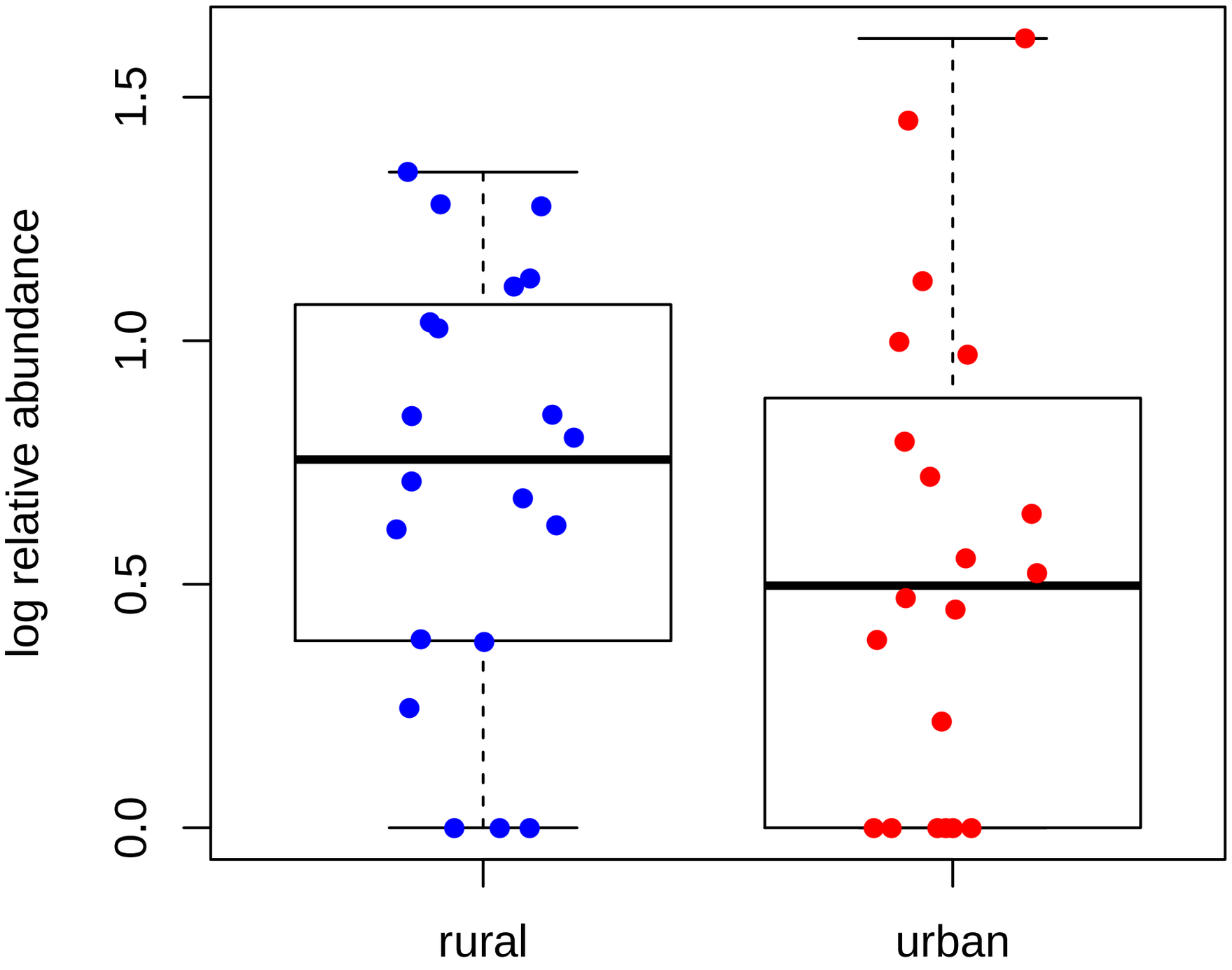

WGS species: Pectobacterium_carotovorum
pAdjRuralUrban= 0.439
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

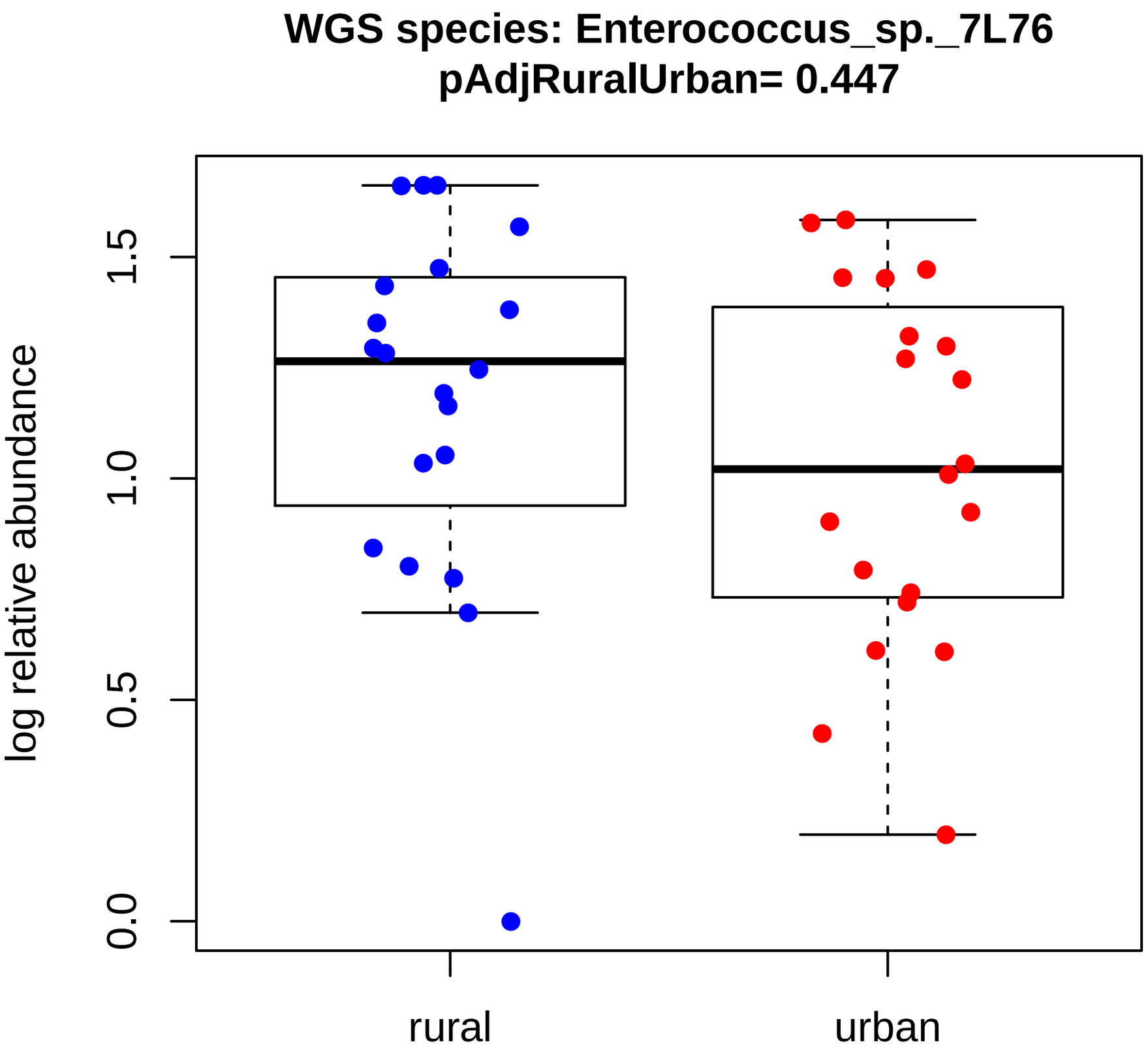

WGS species: Thioalkalimicrobium_cyclicum
pAdjRuralUrban= 0.44
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

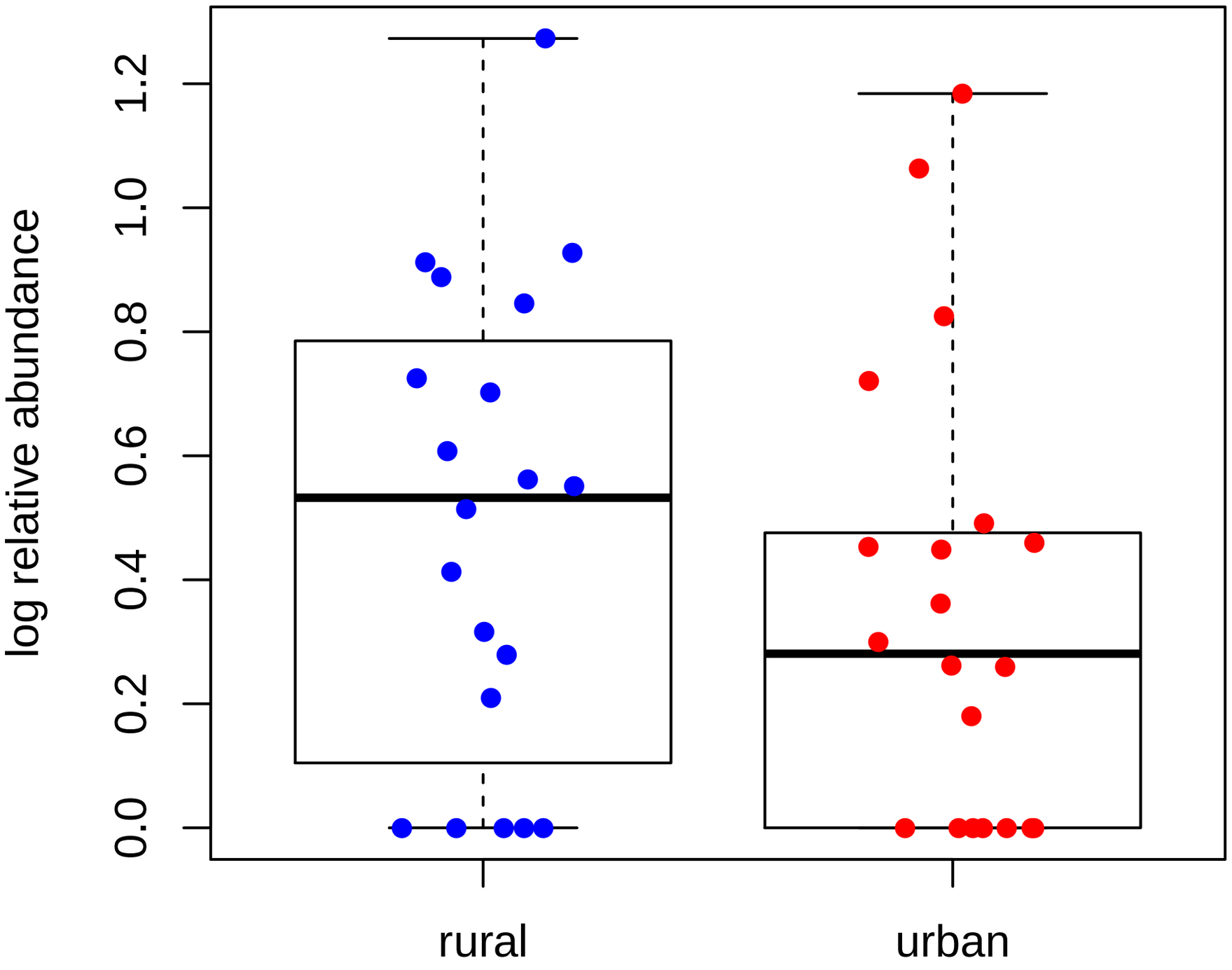

WGS species: Staphylococcus_pseudintermedius
pAdjRuralUrban= 0.442
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

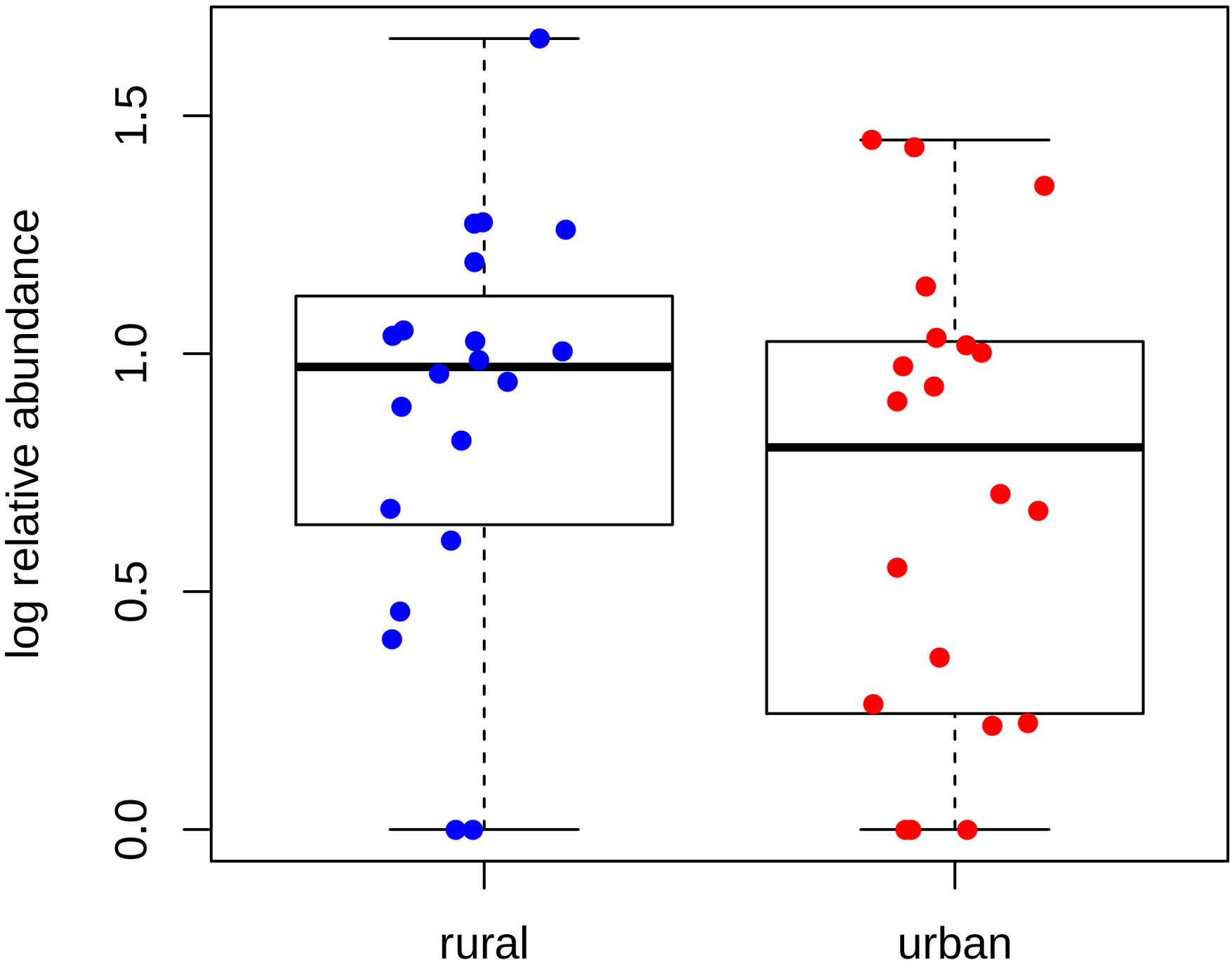

WGS species: Rhizobium_sp._IRBG74
pAdjRuralUrban= 0.442
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

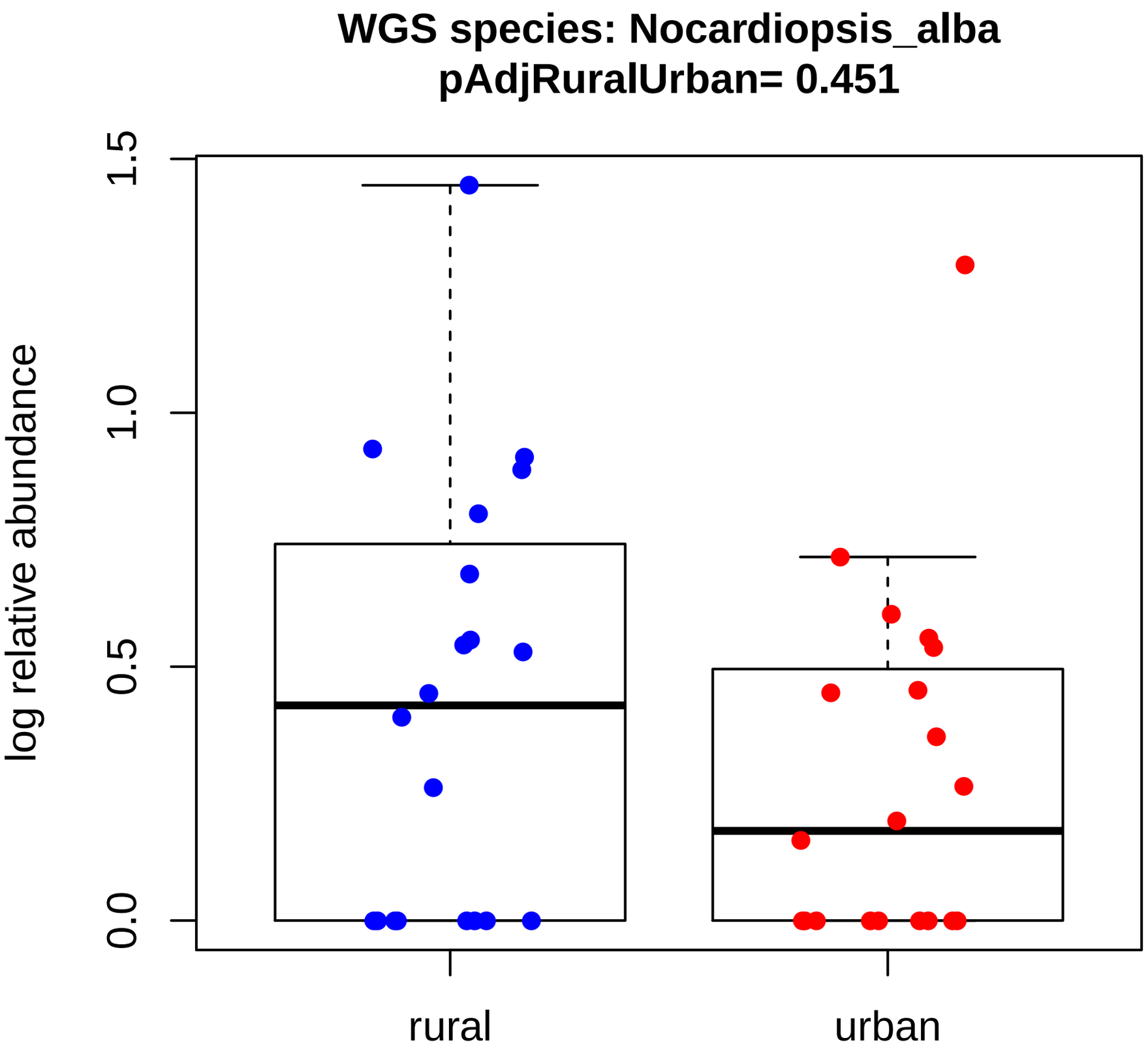

WGS species: Bifidobacterium_asteroides
pAdjRuralUrban= 0.444
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

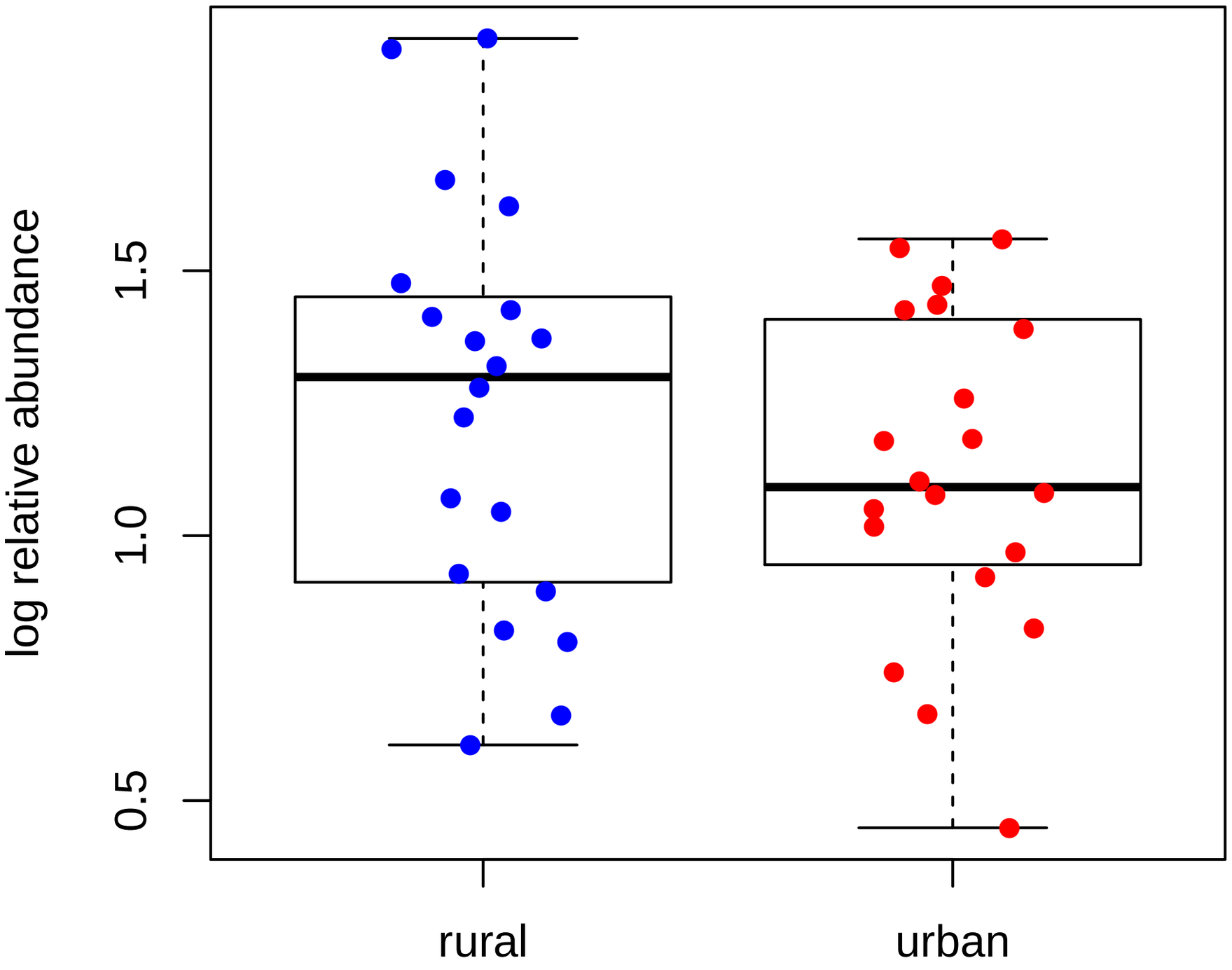

WGS species: Bordetella_avium
pAdjRuralUrban= 0.447
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

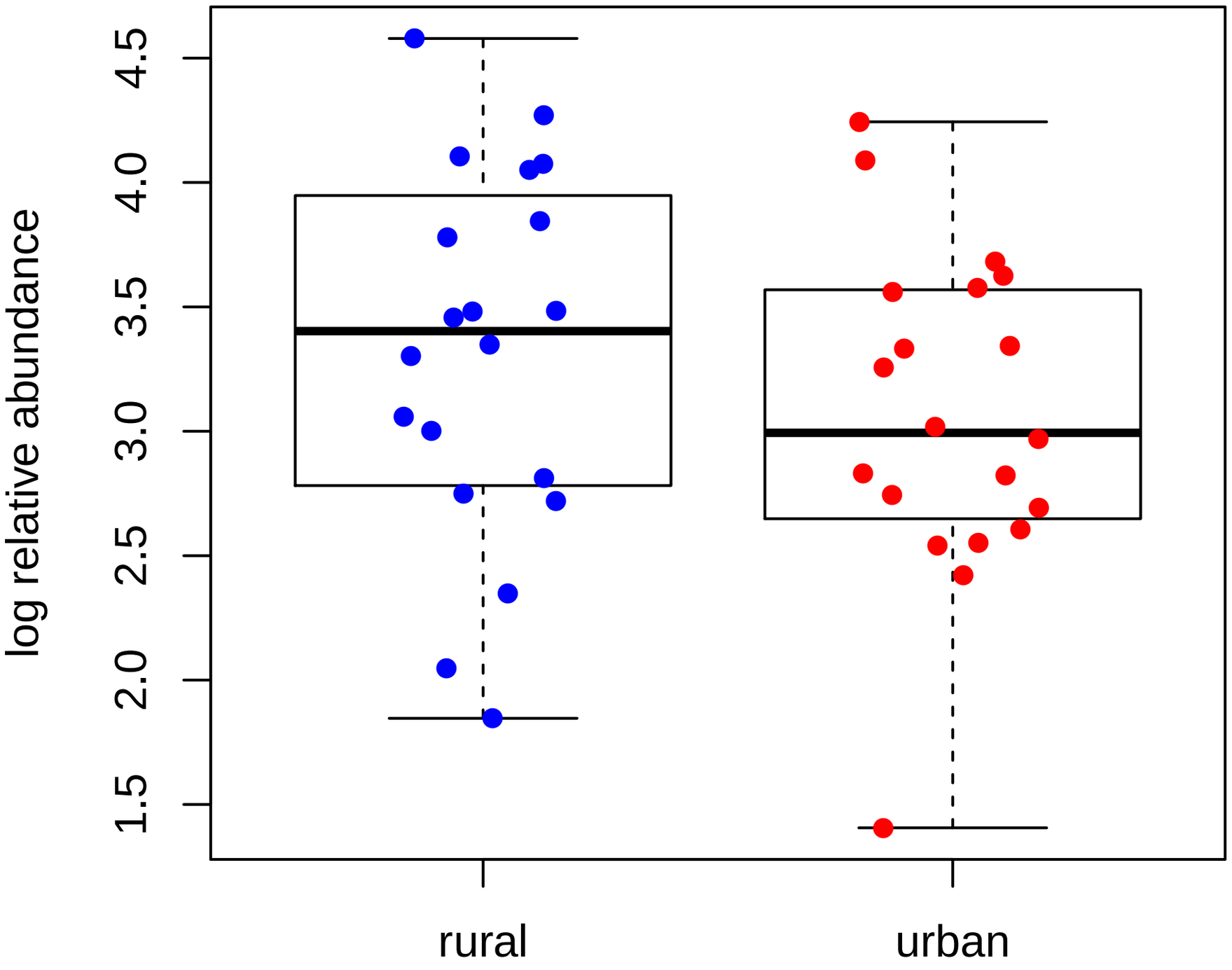

WGS species: Enterococcus_sp._7L76
pAdjRuralUrban= 0.447
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

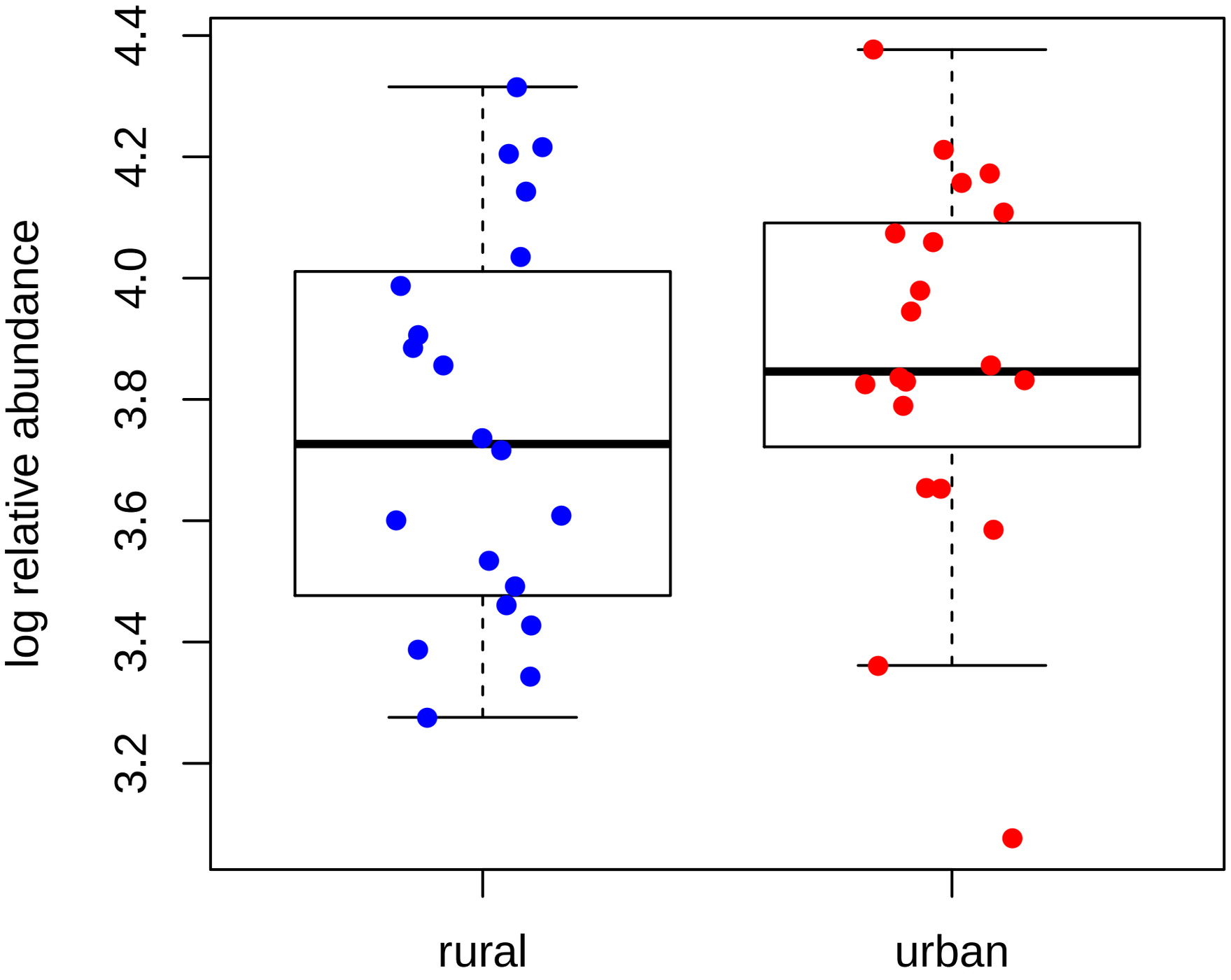

WGS species: Syntrophus_aciditrophicus
pAdjRuralUrban= 0.447
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

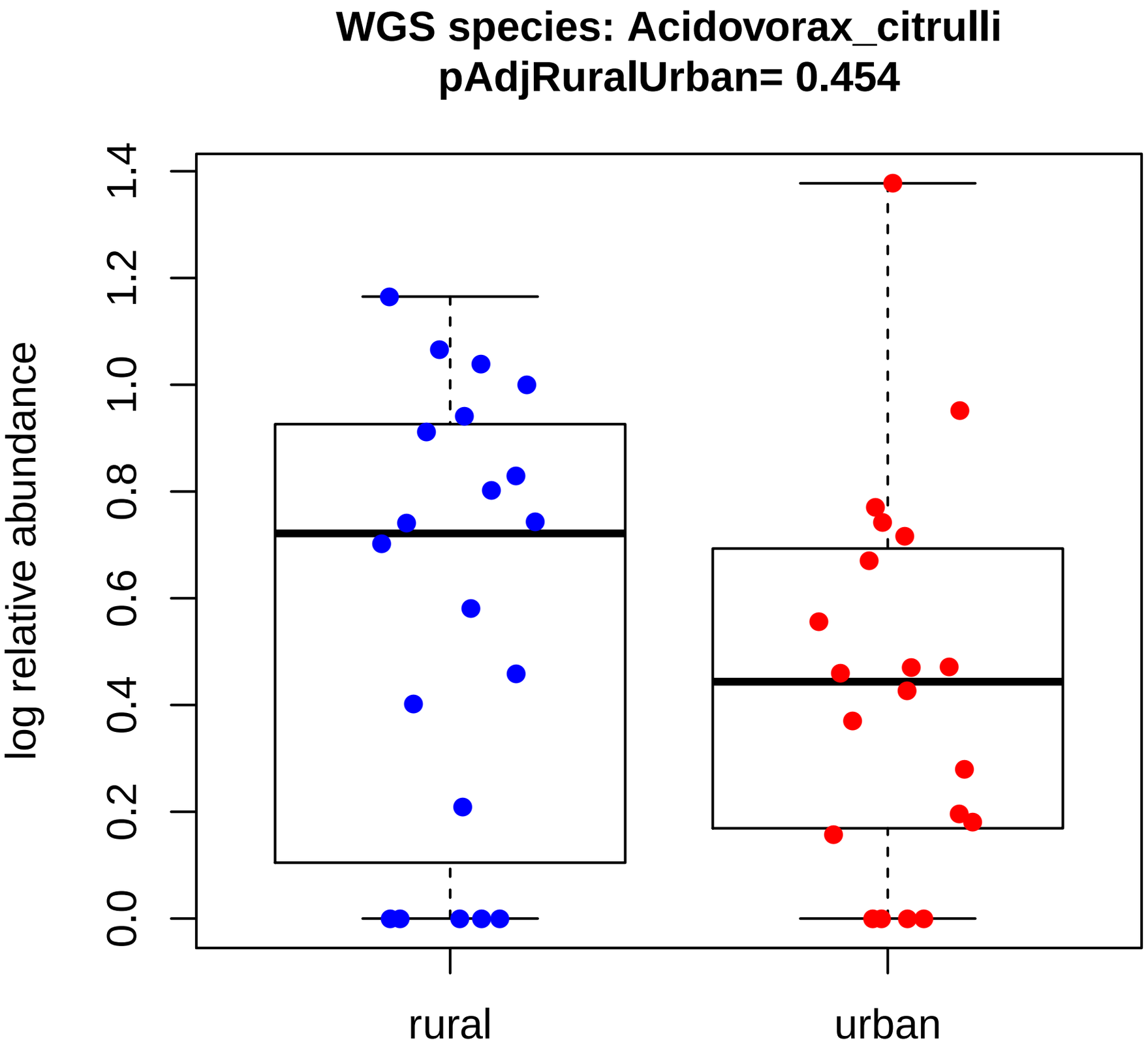

WGS species: Sinorhizobium_medicae
pAdjRuralUrban= 0.451
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

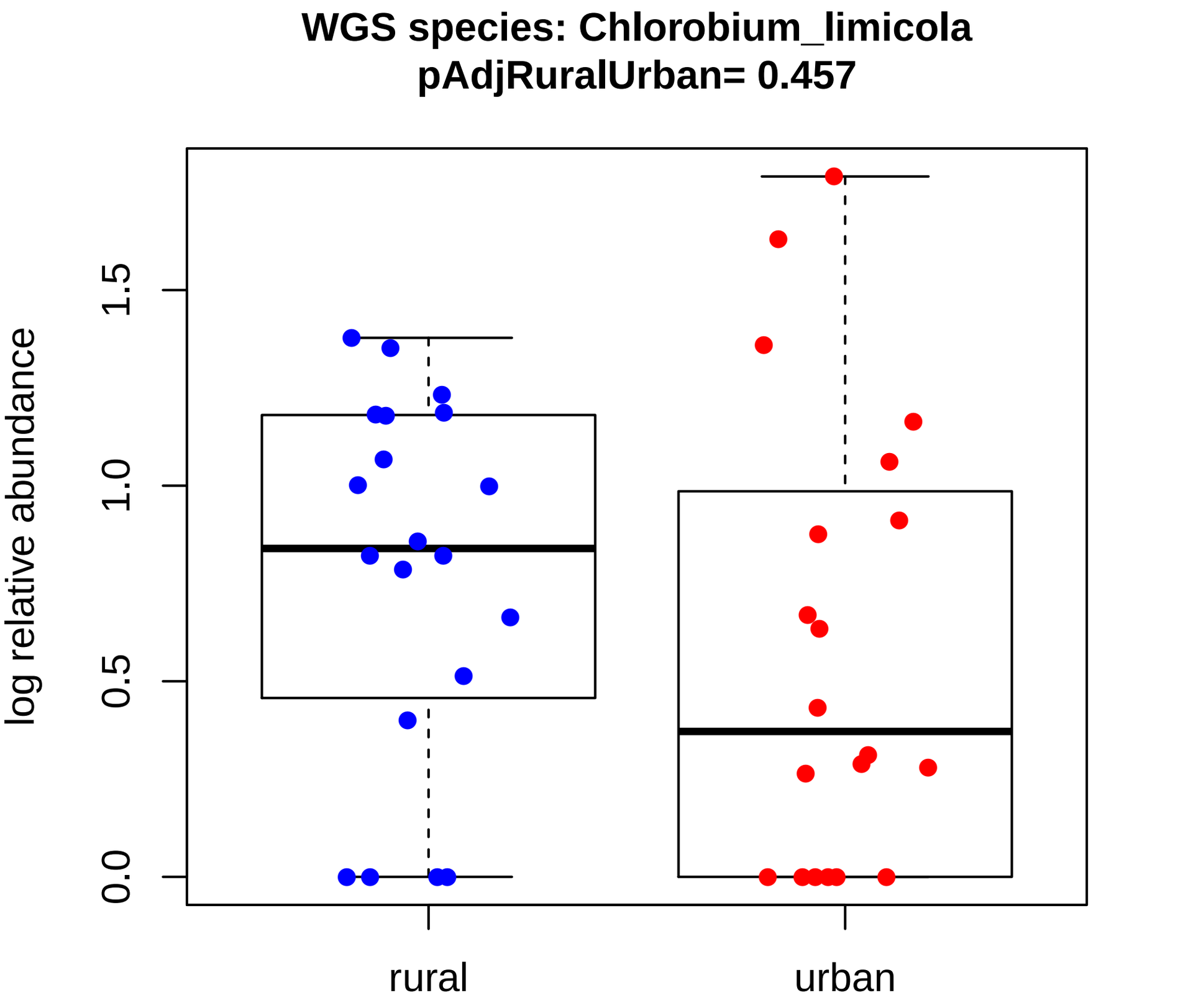

WGS species: Nocardiopsis_alba
pAdjRuralUrban= 0.451
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

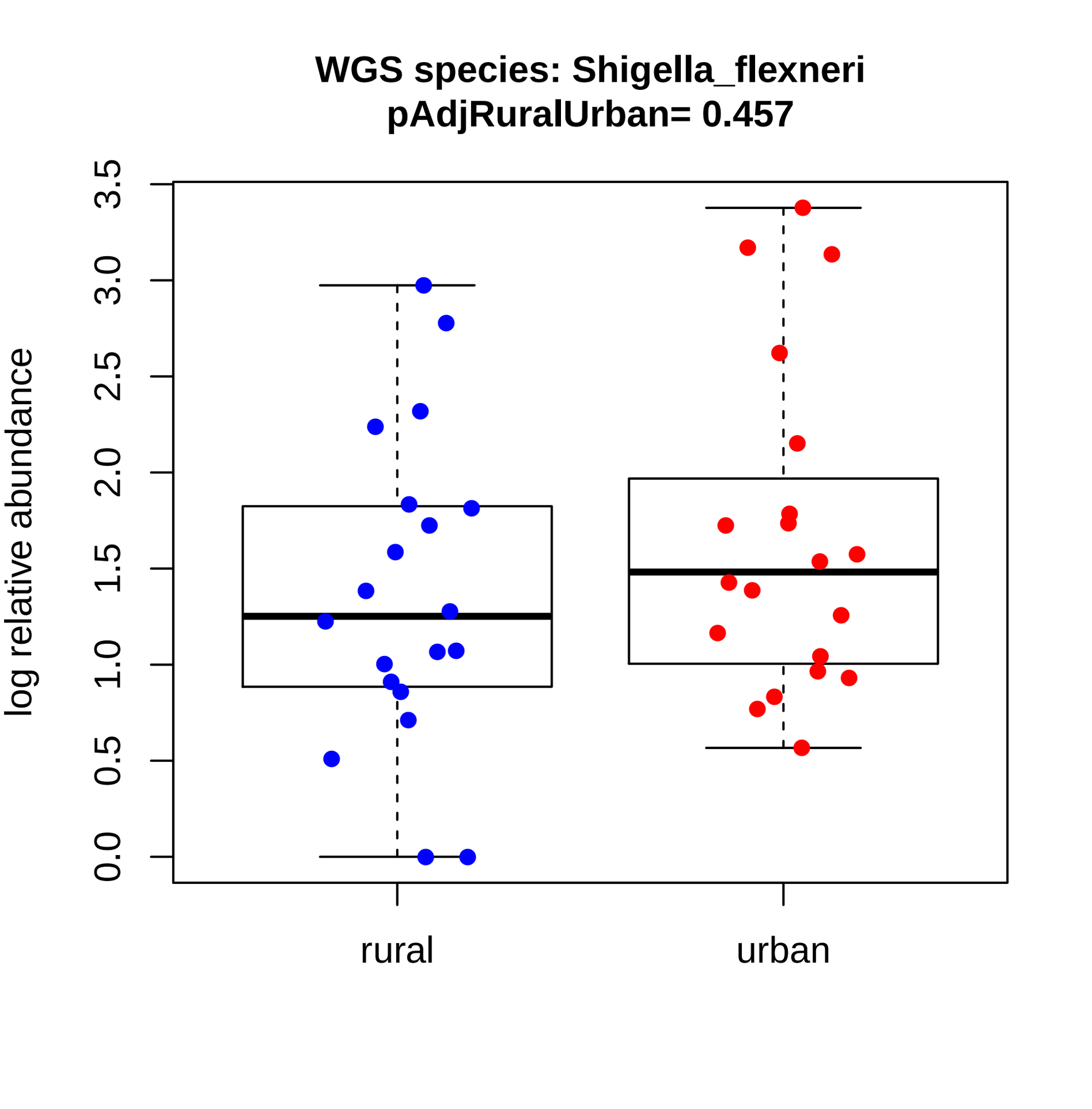

WGS species: Clostridium_tetani
pAdjRuralUrban= 0.452
log relative abundance
0.5
1.0
1.5
rural
urban

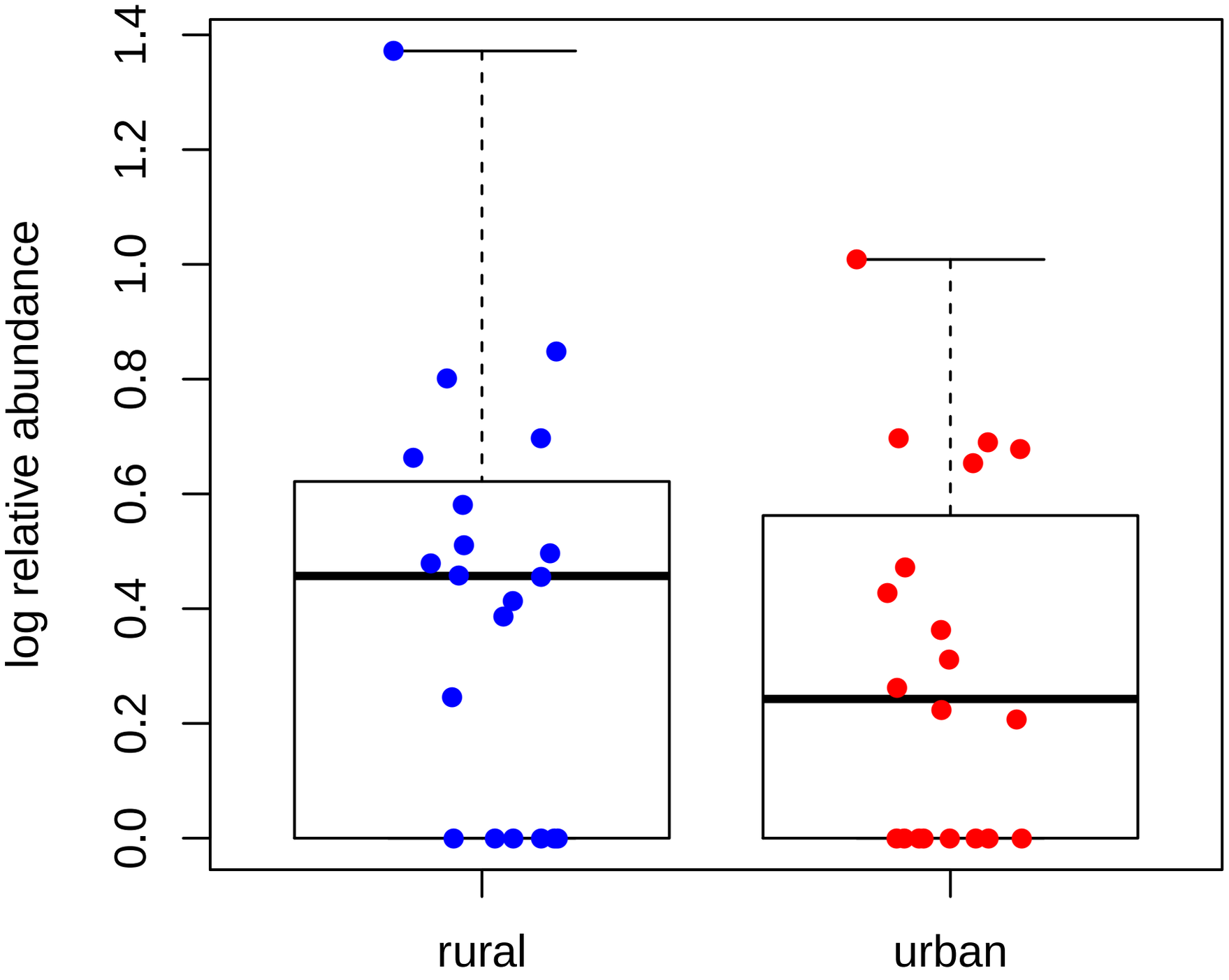

WGS species: Bifidobacterium_longum
pAdjRuralUrban= 0.454
log relative abundance
4.5
4.0
3.5
3.0
2.5
2.0
1.5
rural
urban

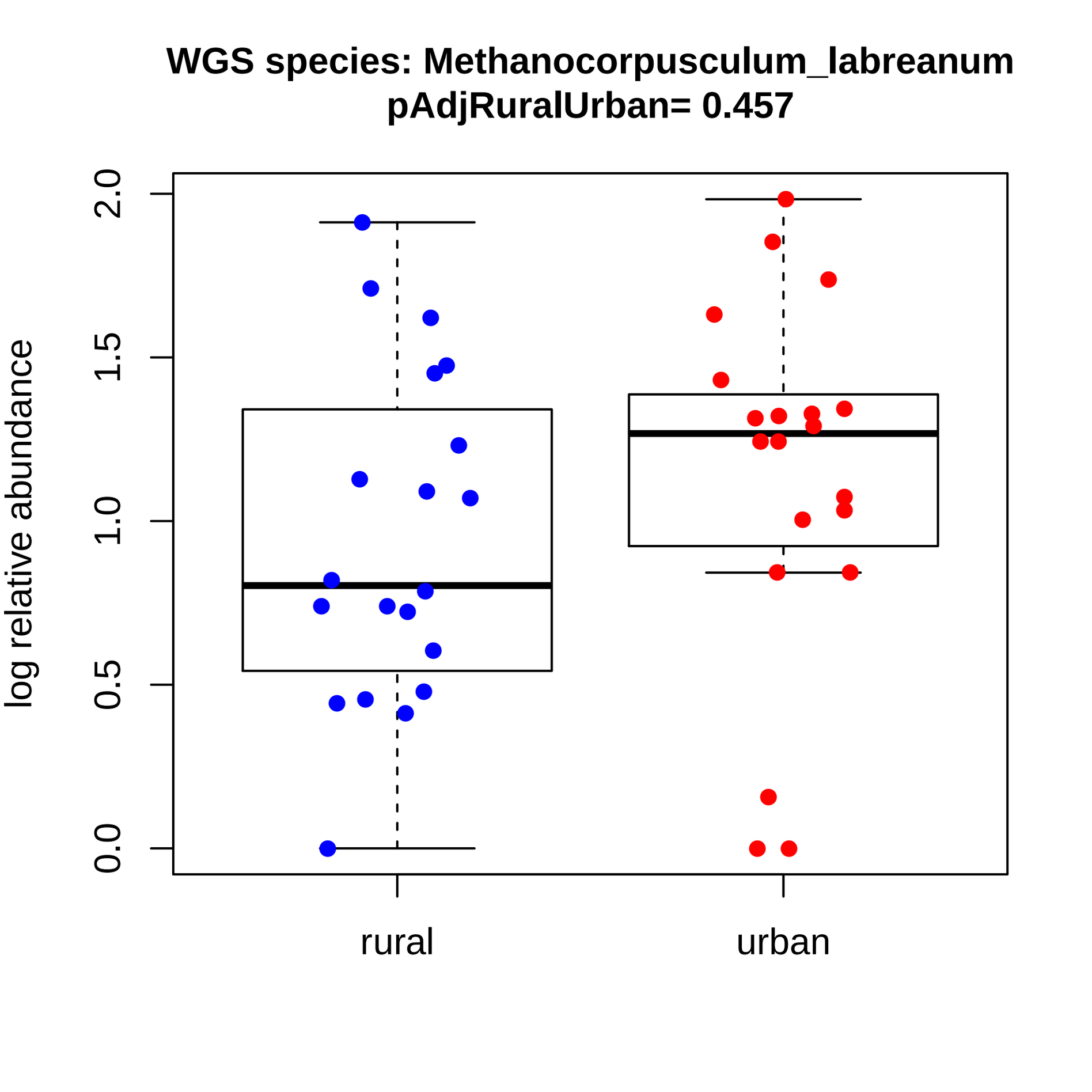

WGS species: Bacteroides_helcogenes
pAdjRuralUrban= 0.454
log relative abundance
4.4
4.2
4.0
3.8
3.6
3.4
3.2
rural
urban

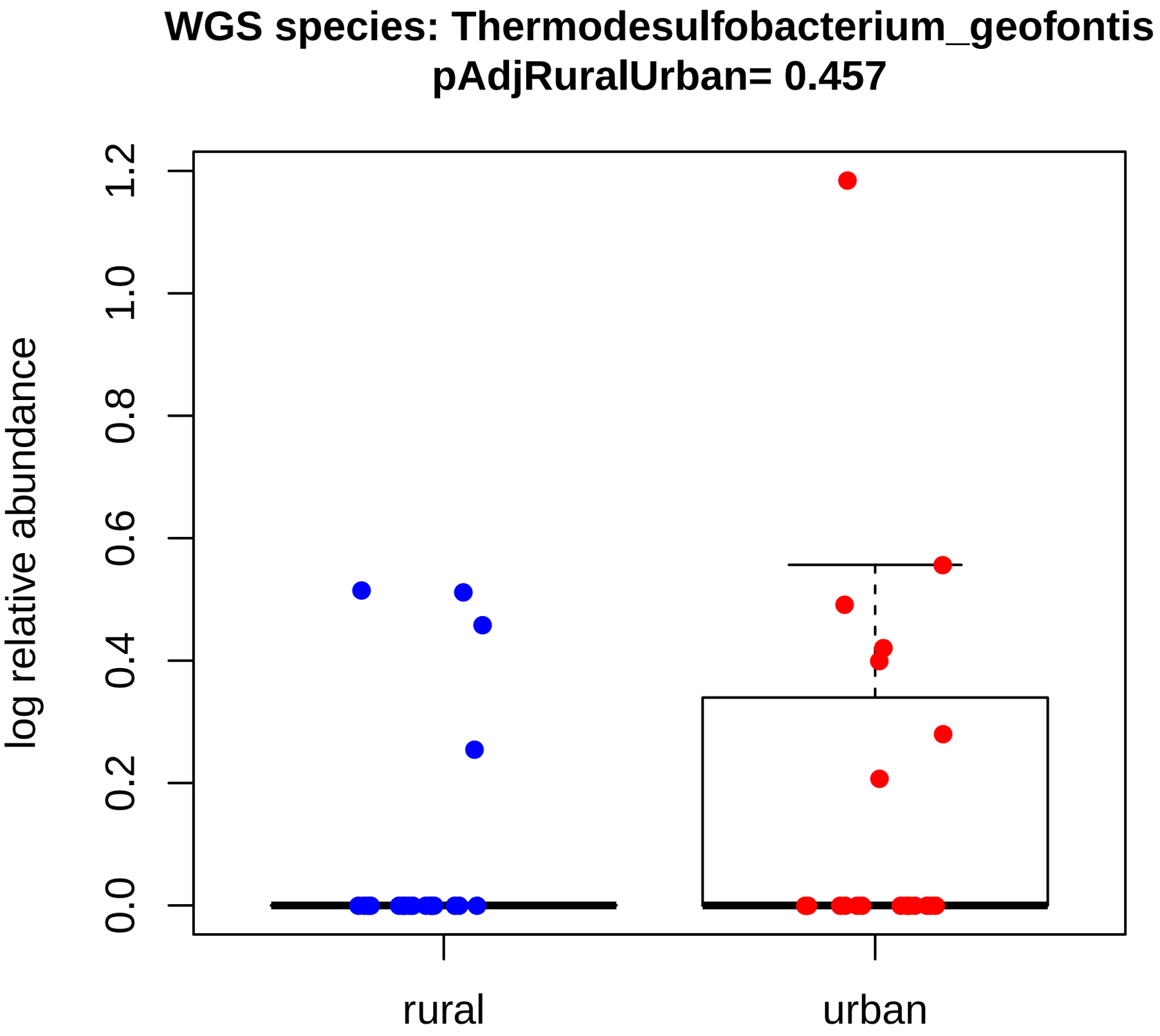

WGS species: Acidovorax_citrulli
pAdjRuralUrban= 0.454
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

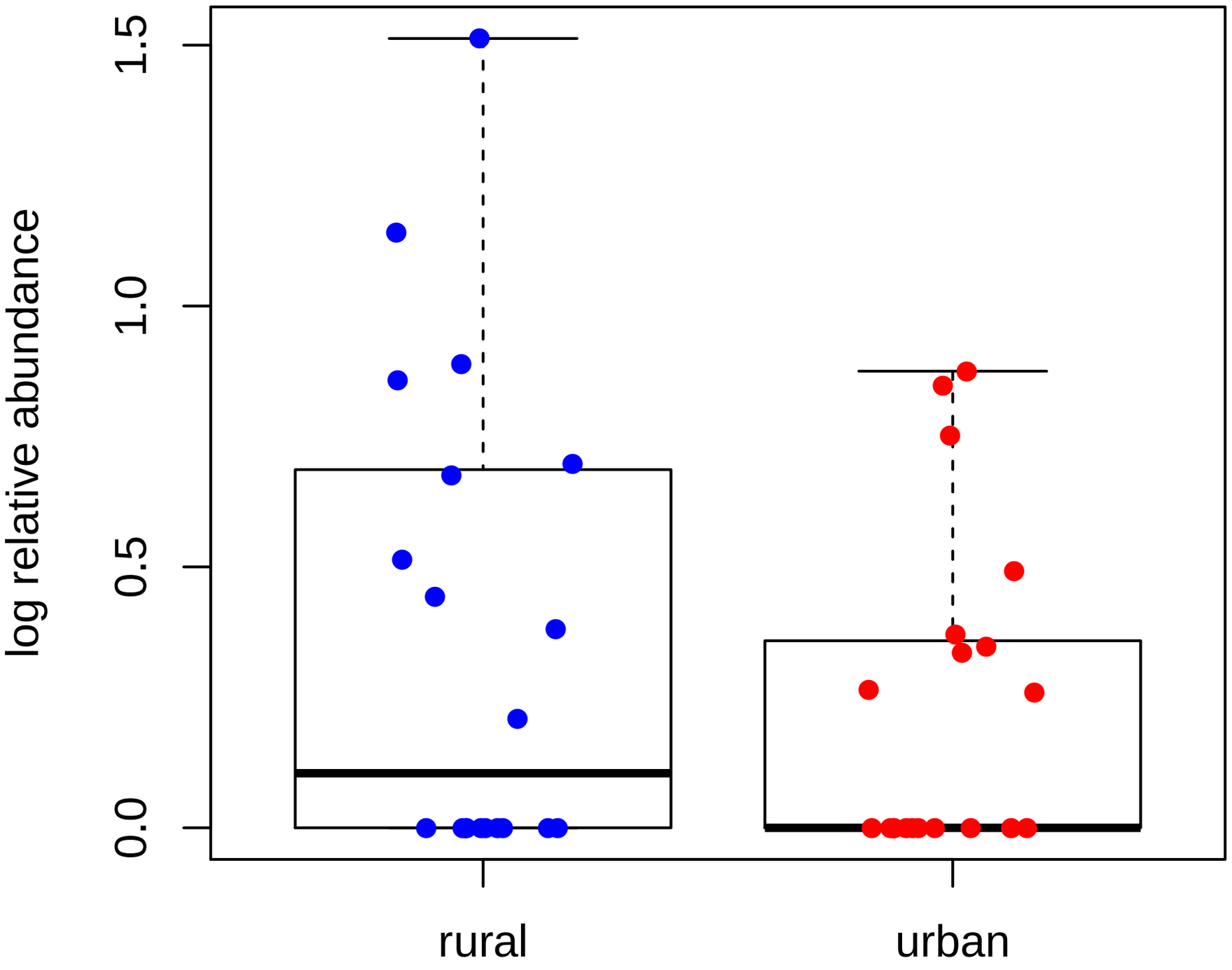

WGS species: Chlorobium_limicola
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

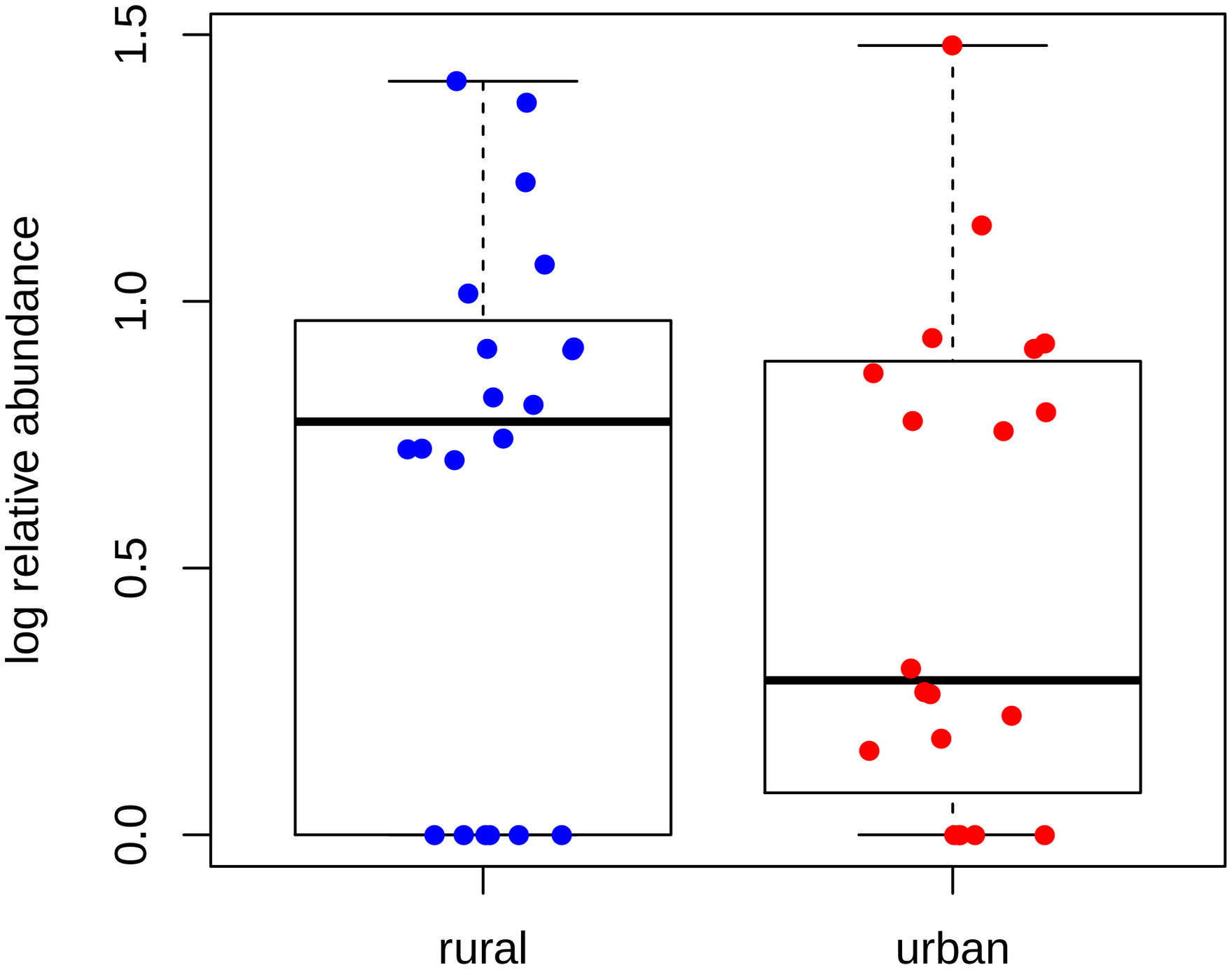

WGS species: Shigella_flexneri
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

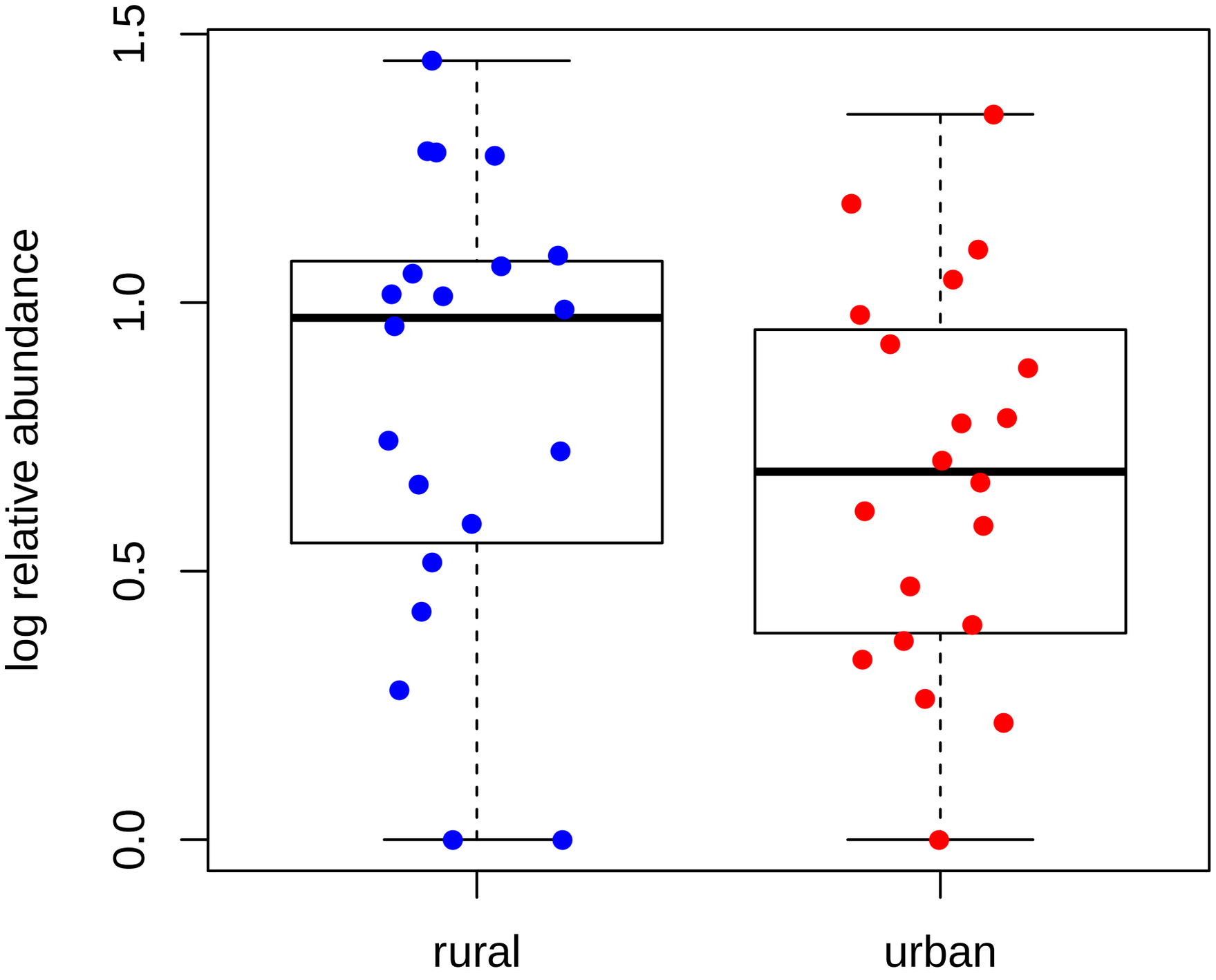

WGS species: Sideroxydans_lithotrophicus
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

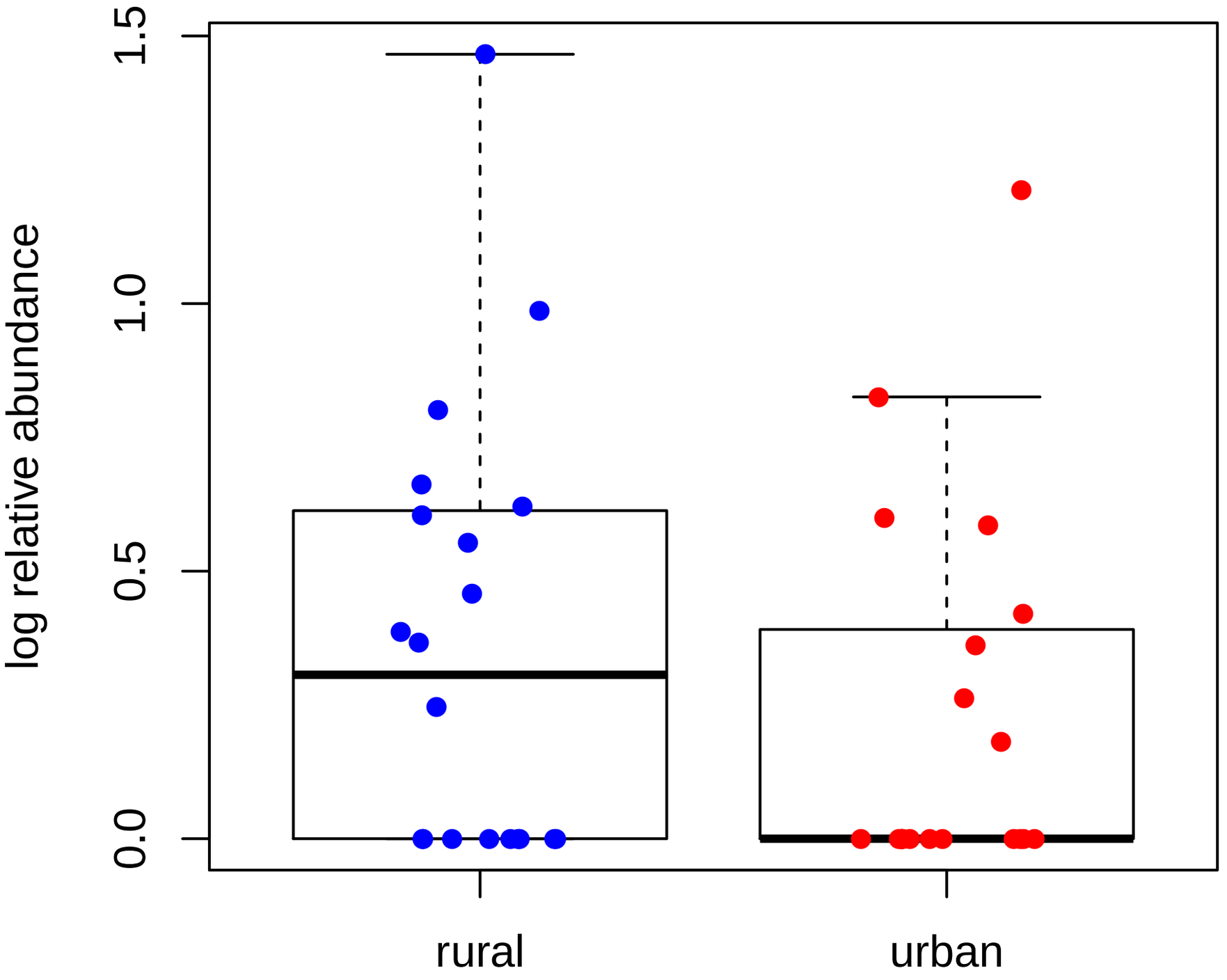

WGS species: Methanocorpusculum_labreanum
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

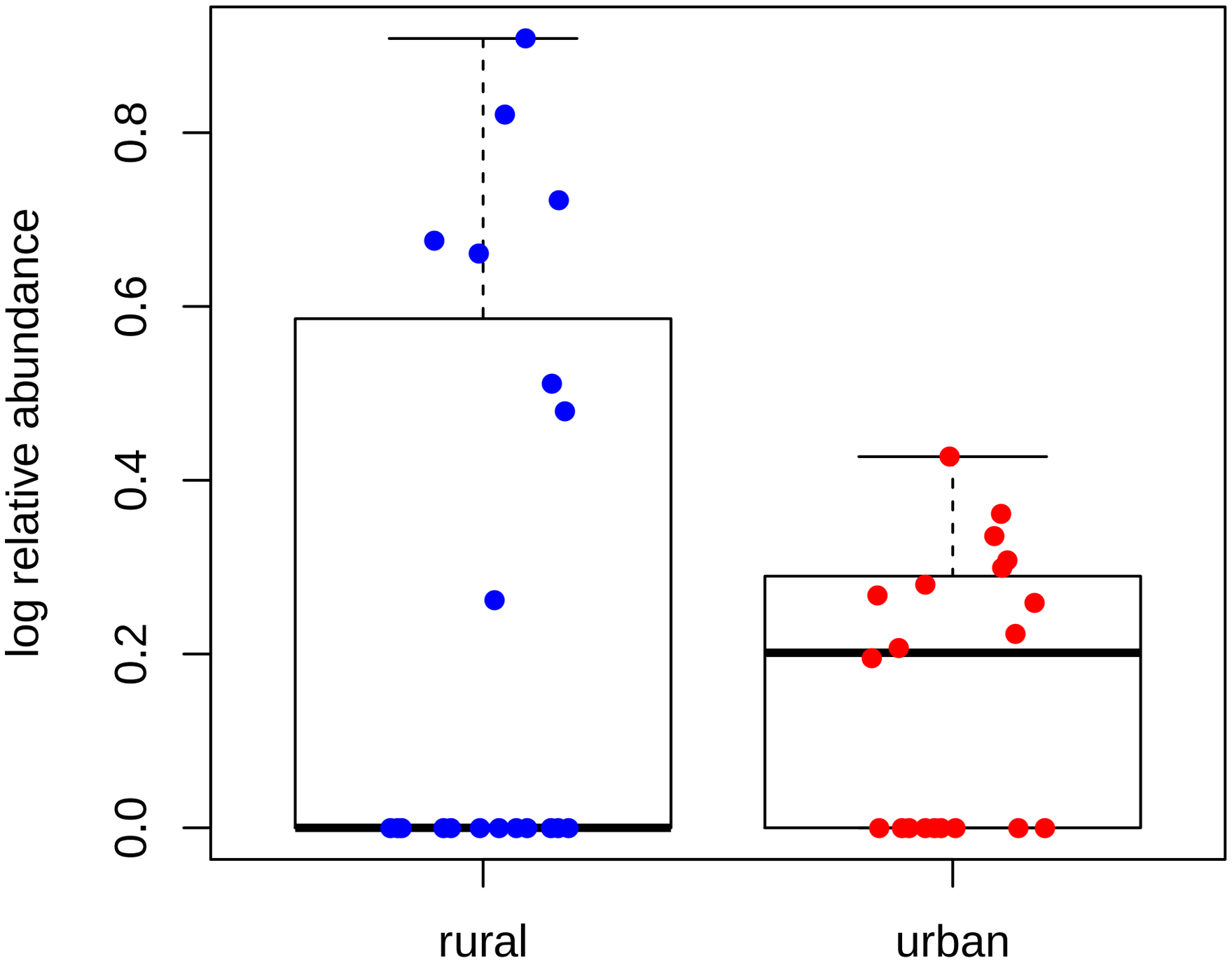

WGS species: Thermodesulfobacterium_geofontis
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

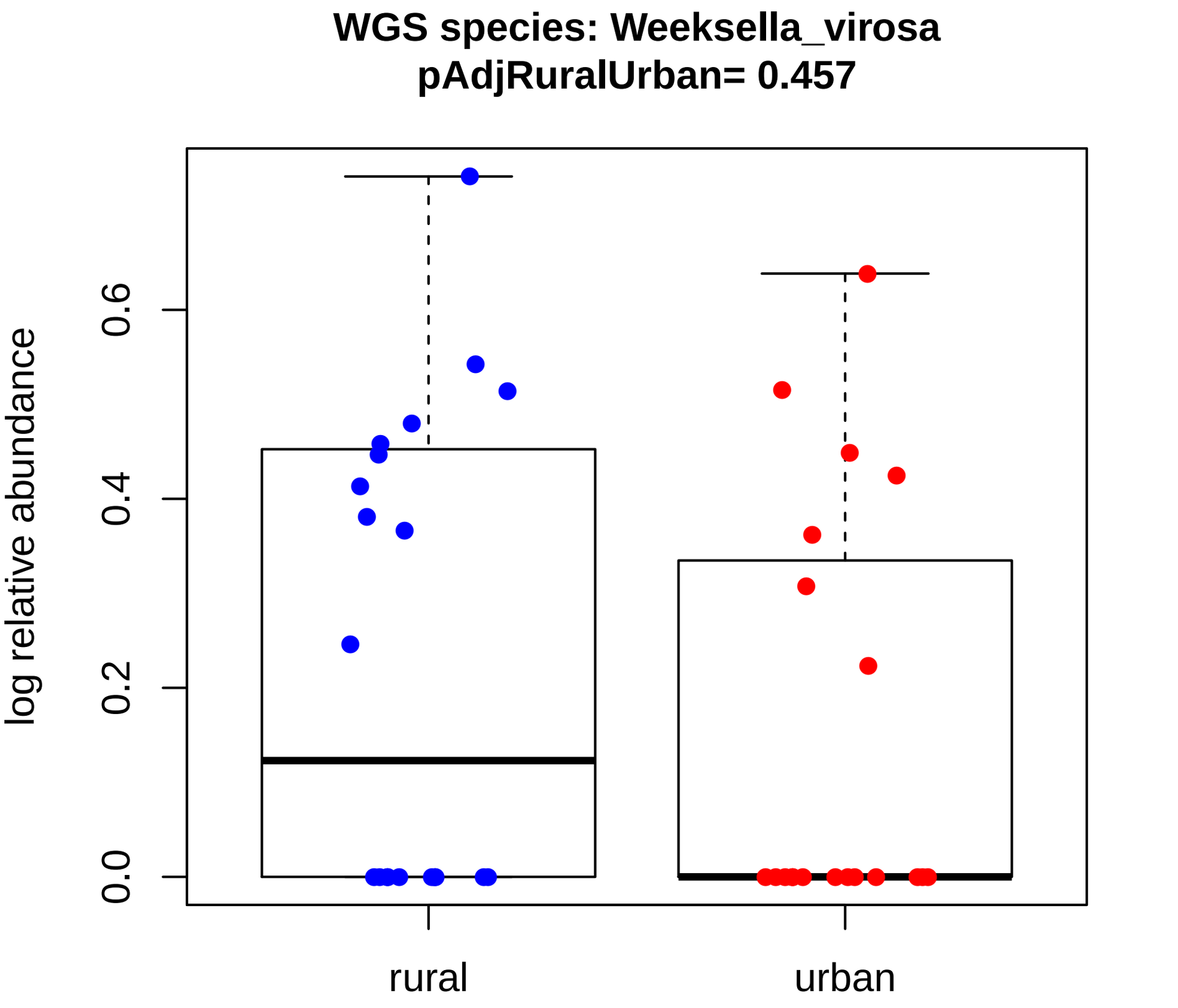

WGS species: Hahella_chejuensis
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

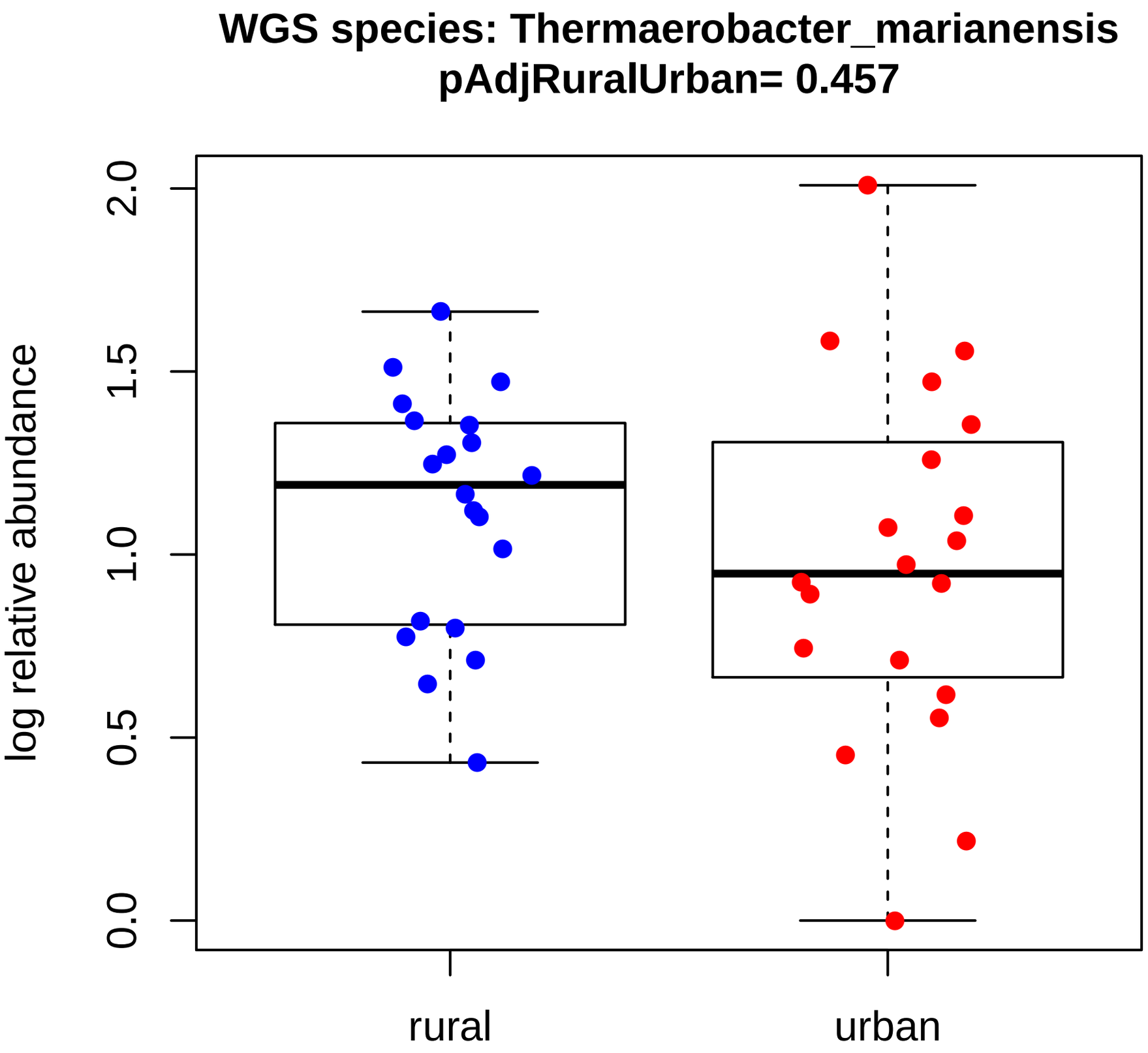

WGS species: Streptomyces_bingchenggensis
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

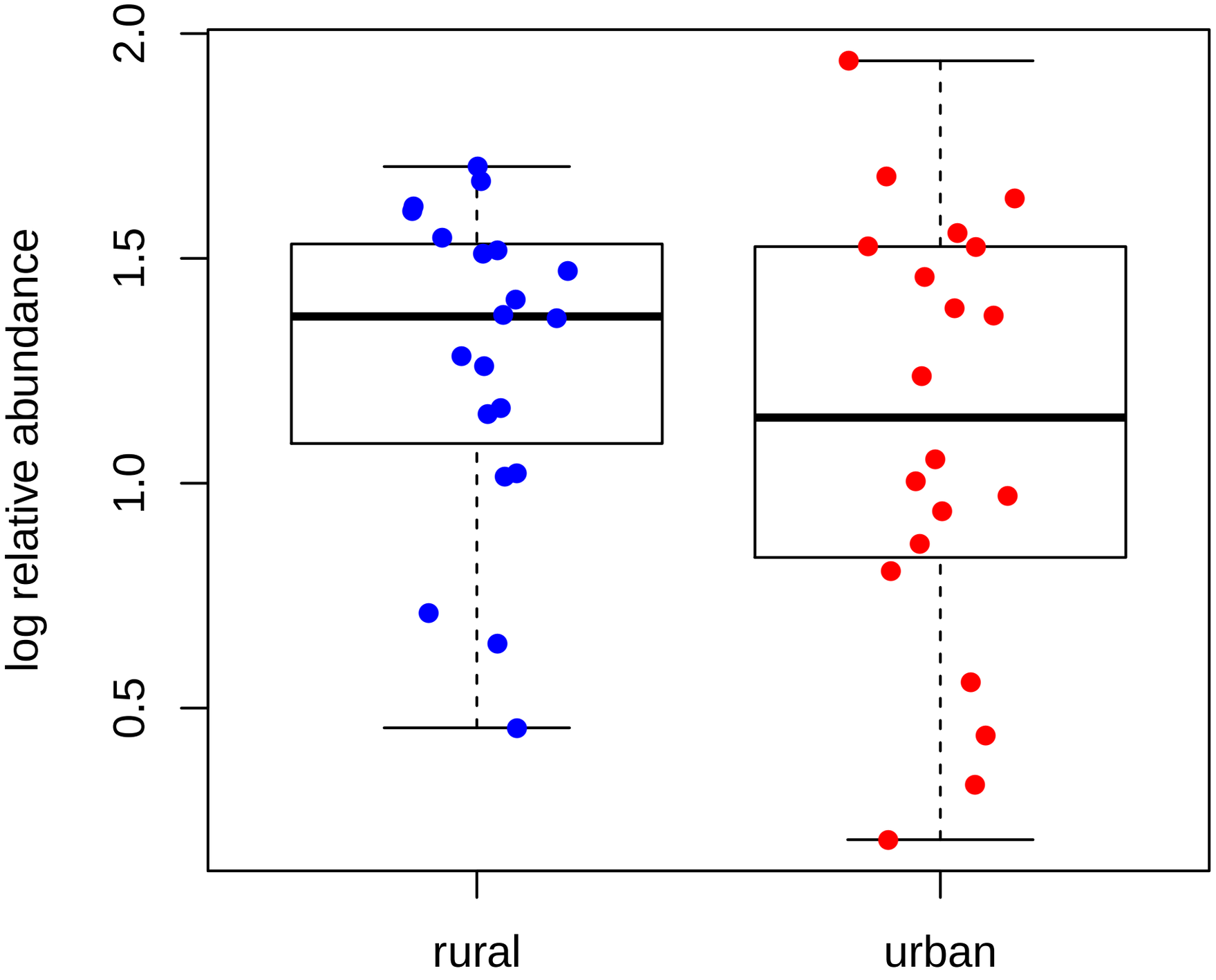

WGS species: Agrobacterium_tumefaciens
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

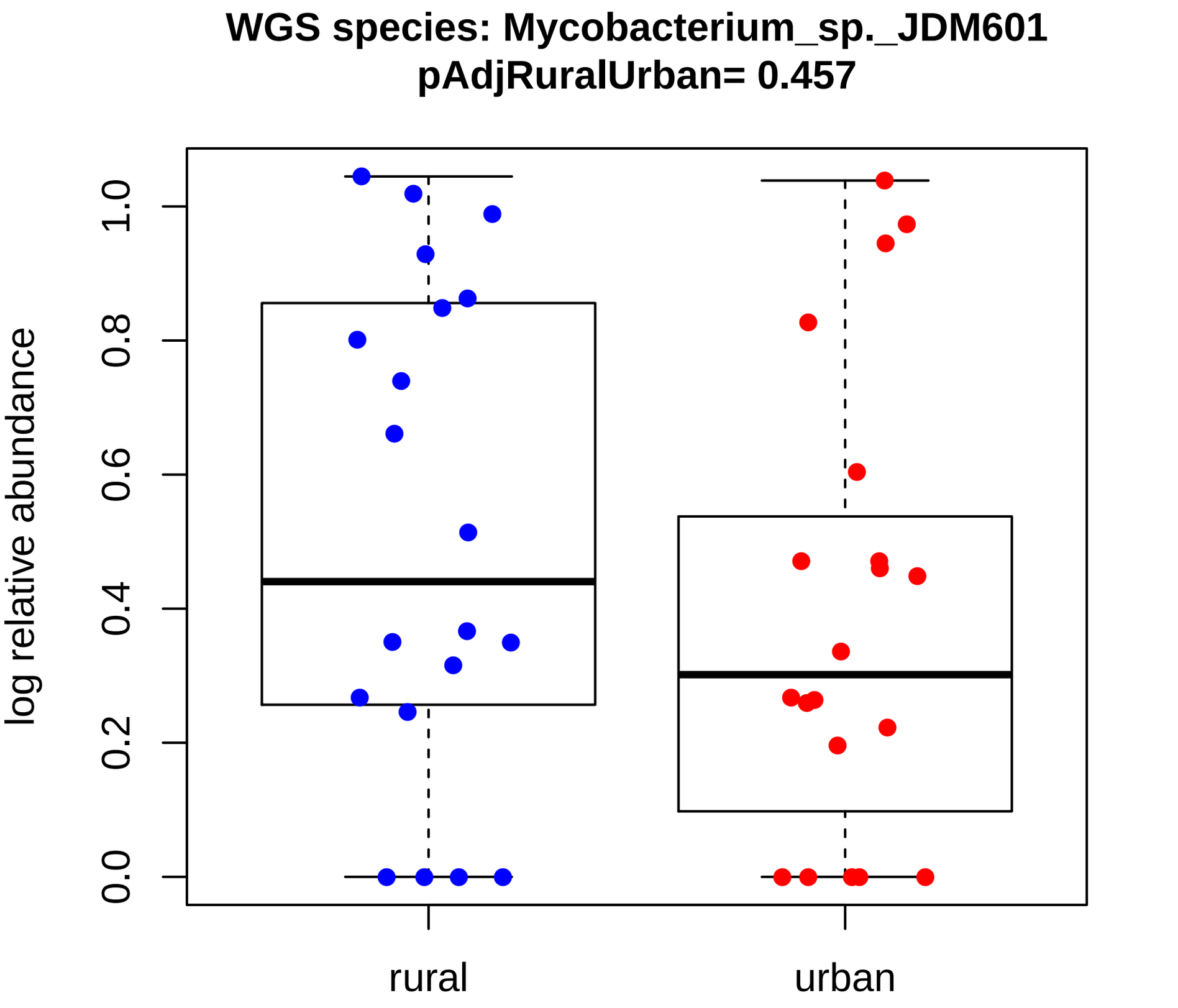

WGS species: Microlunatus_phosphovorus
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

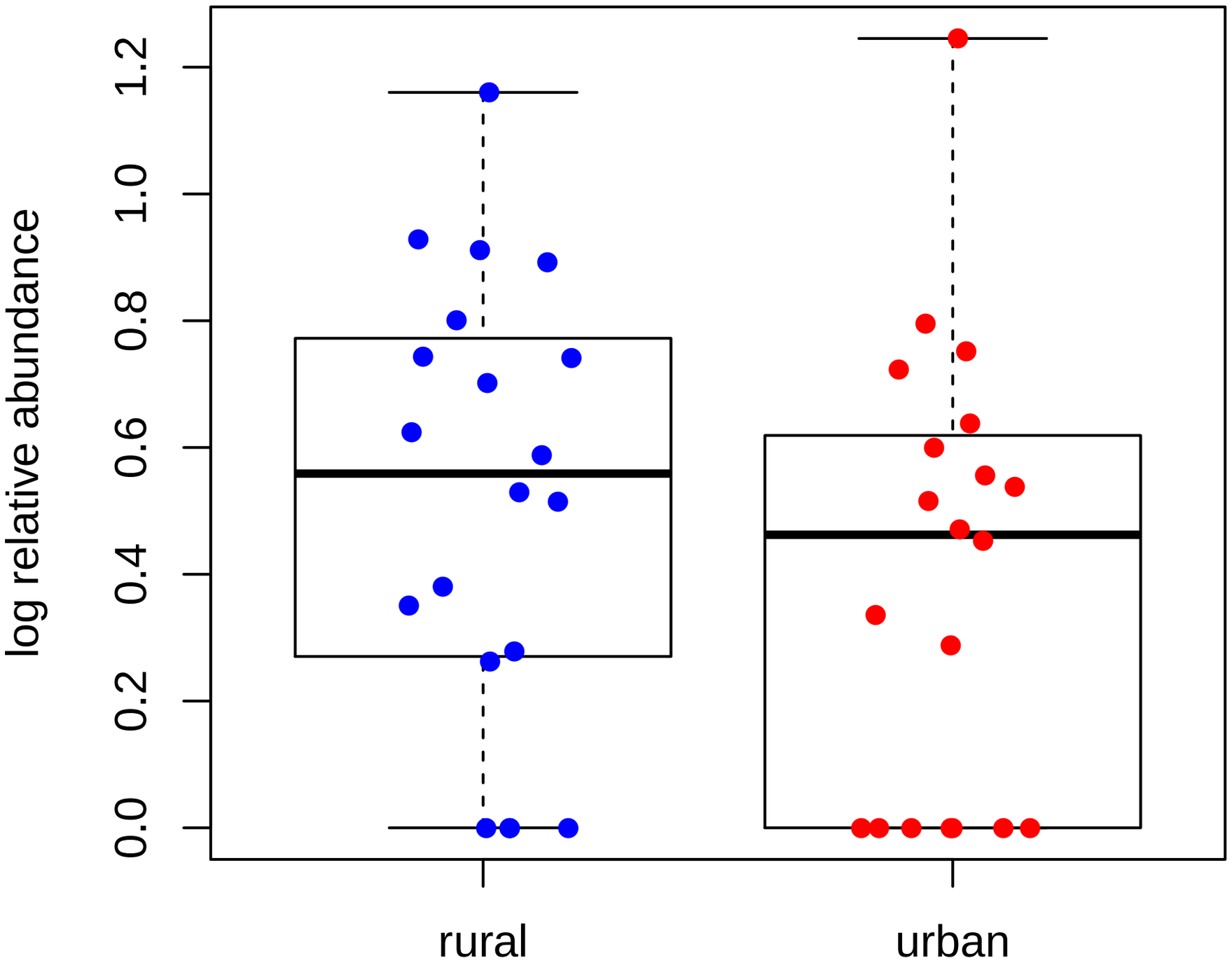

WGS species: Thiomicrospira_crunogena
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

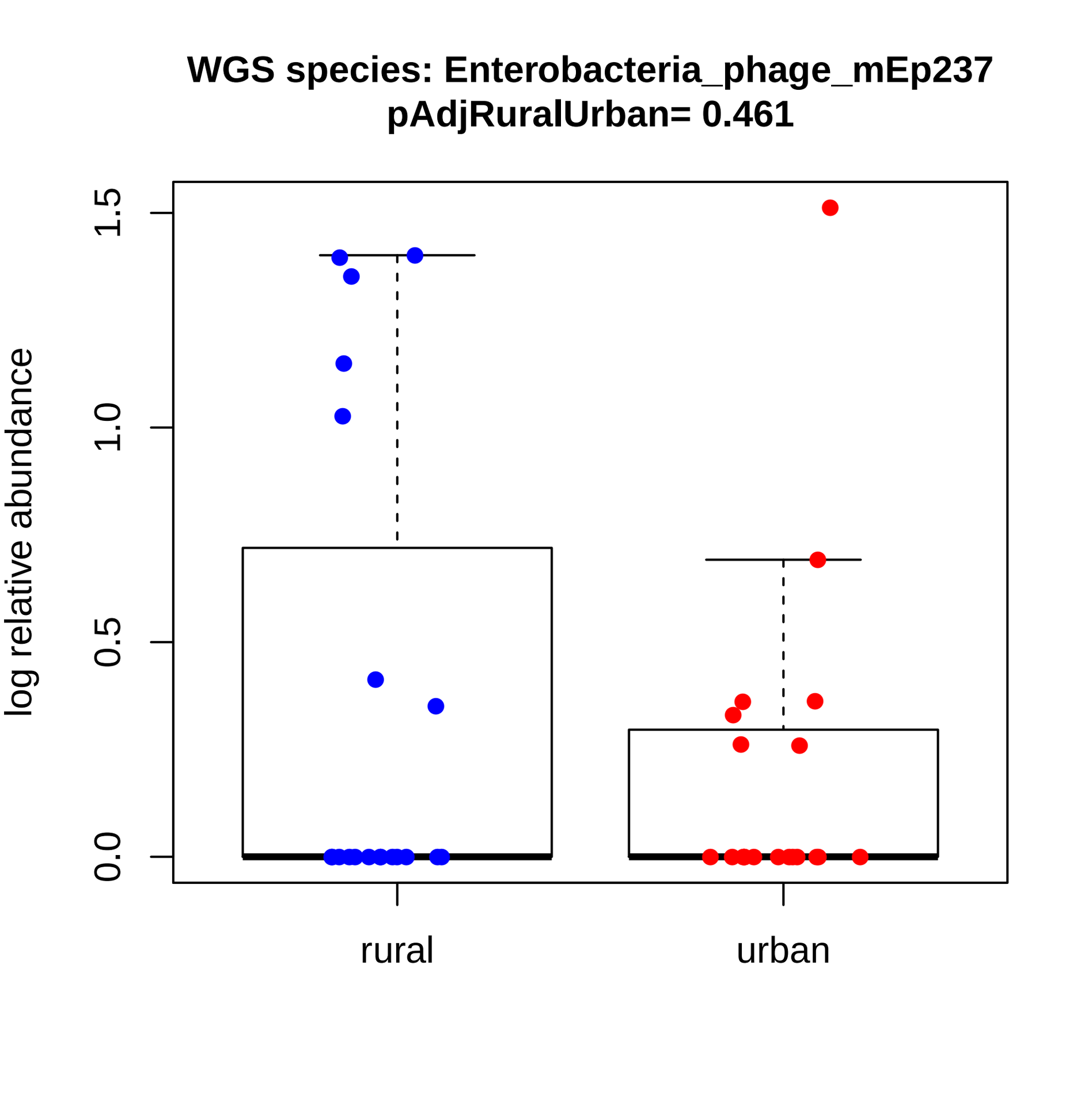

WGS species: Weeksella_virosa
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

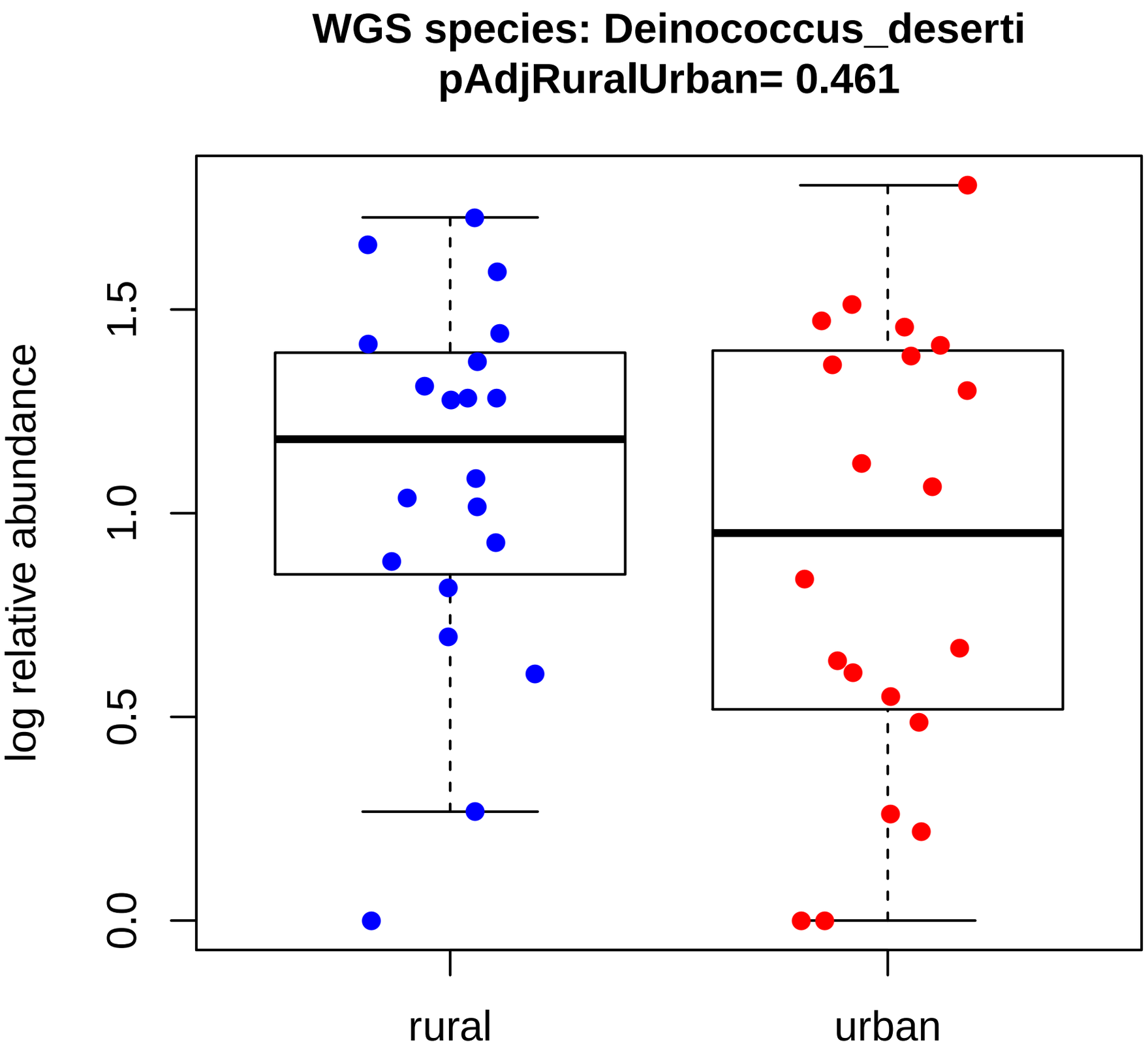

WGS species: Thermaerobacter_marianensis
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

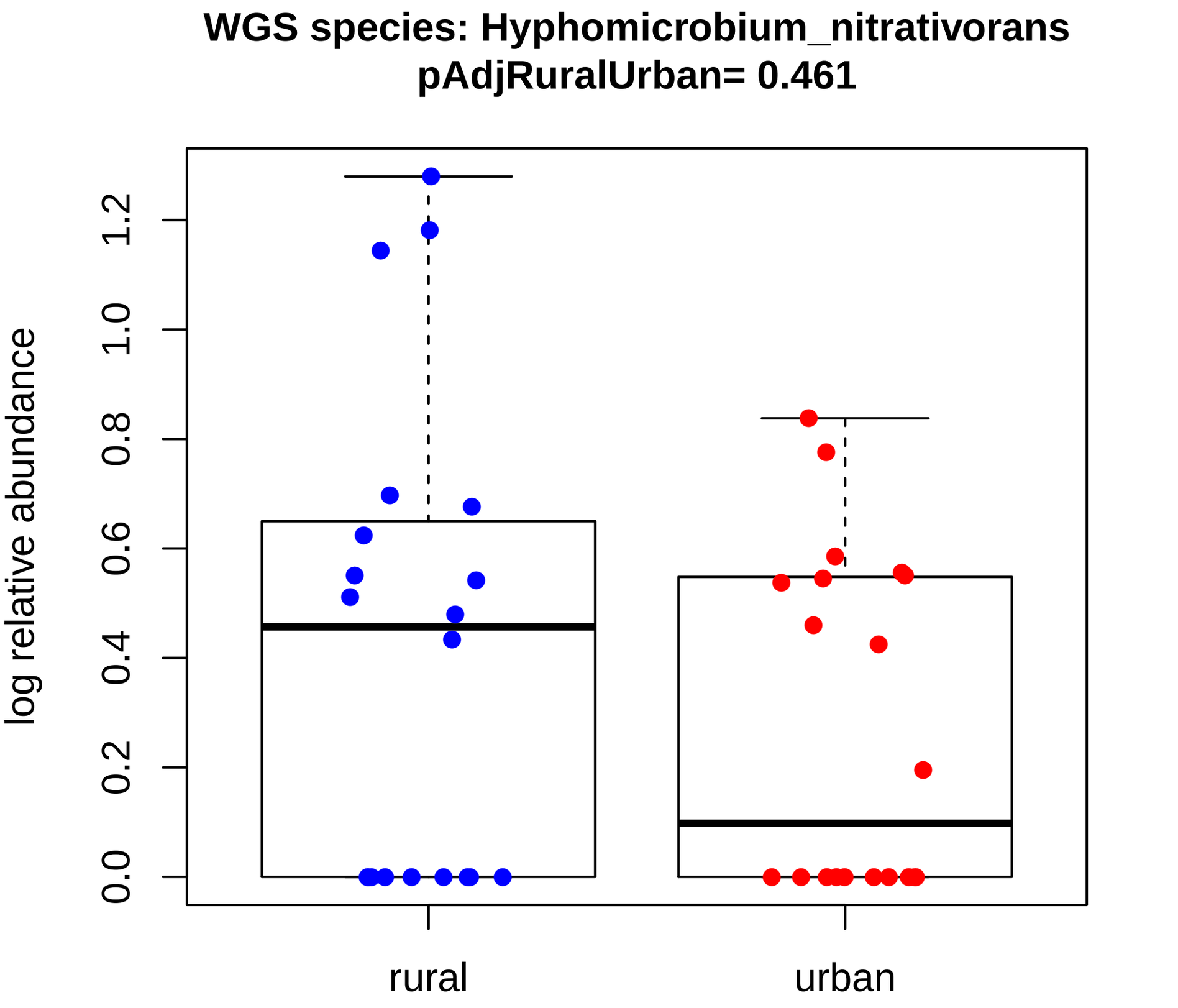

WGS species: Geobacter_sp._M18
pAdjRuralUrban= 0.457
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

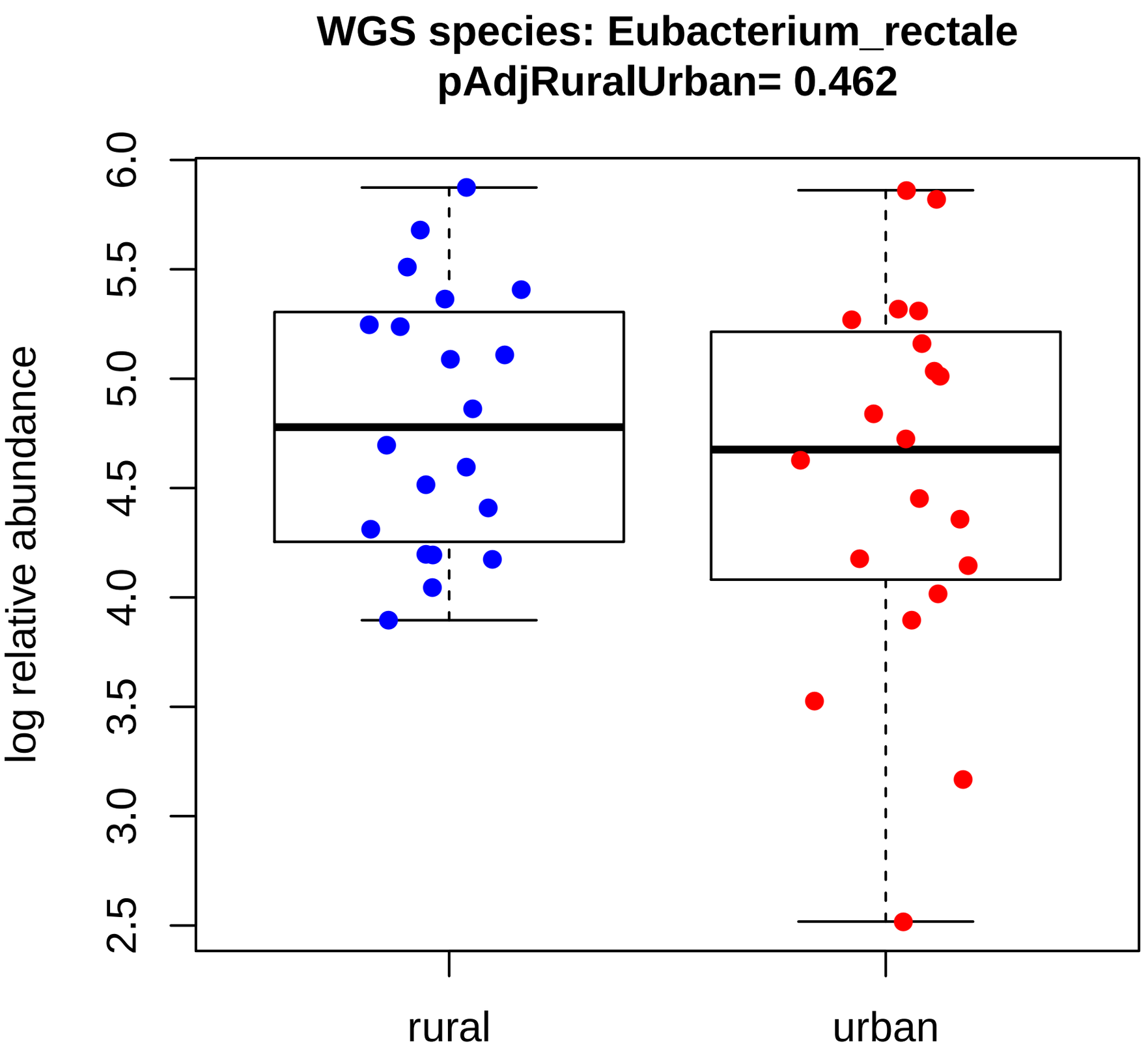

WGS species: Mycobacterium_sp._JDM601
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

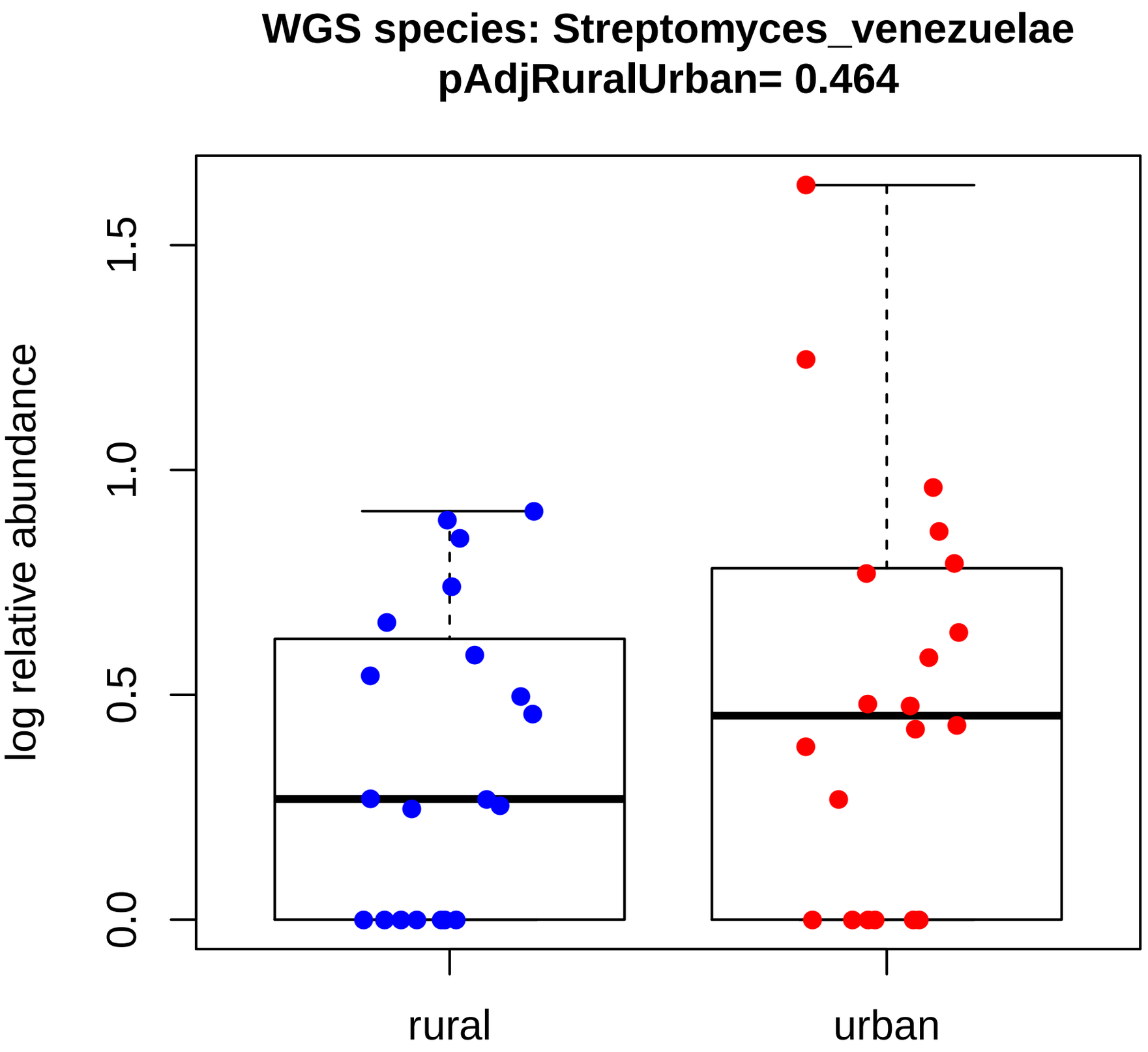

WGS species: Burkholderia_sp._RPE64
pAdjRuralUrban= 0.457
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

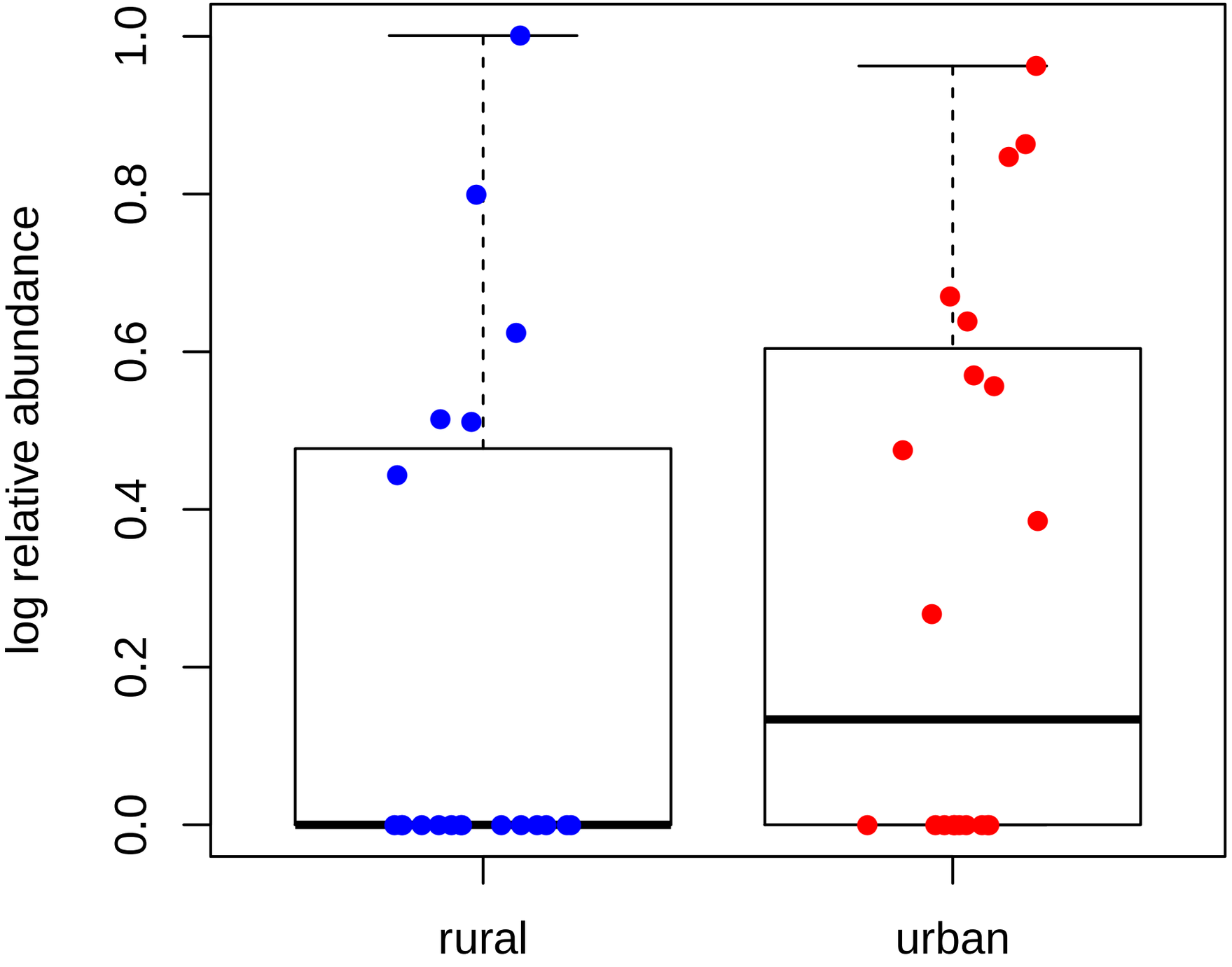

WGS species: Enterobacteria_phage_mEp237
pAdjRuralUrban= 0.461
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

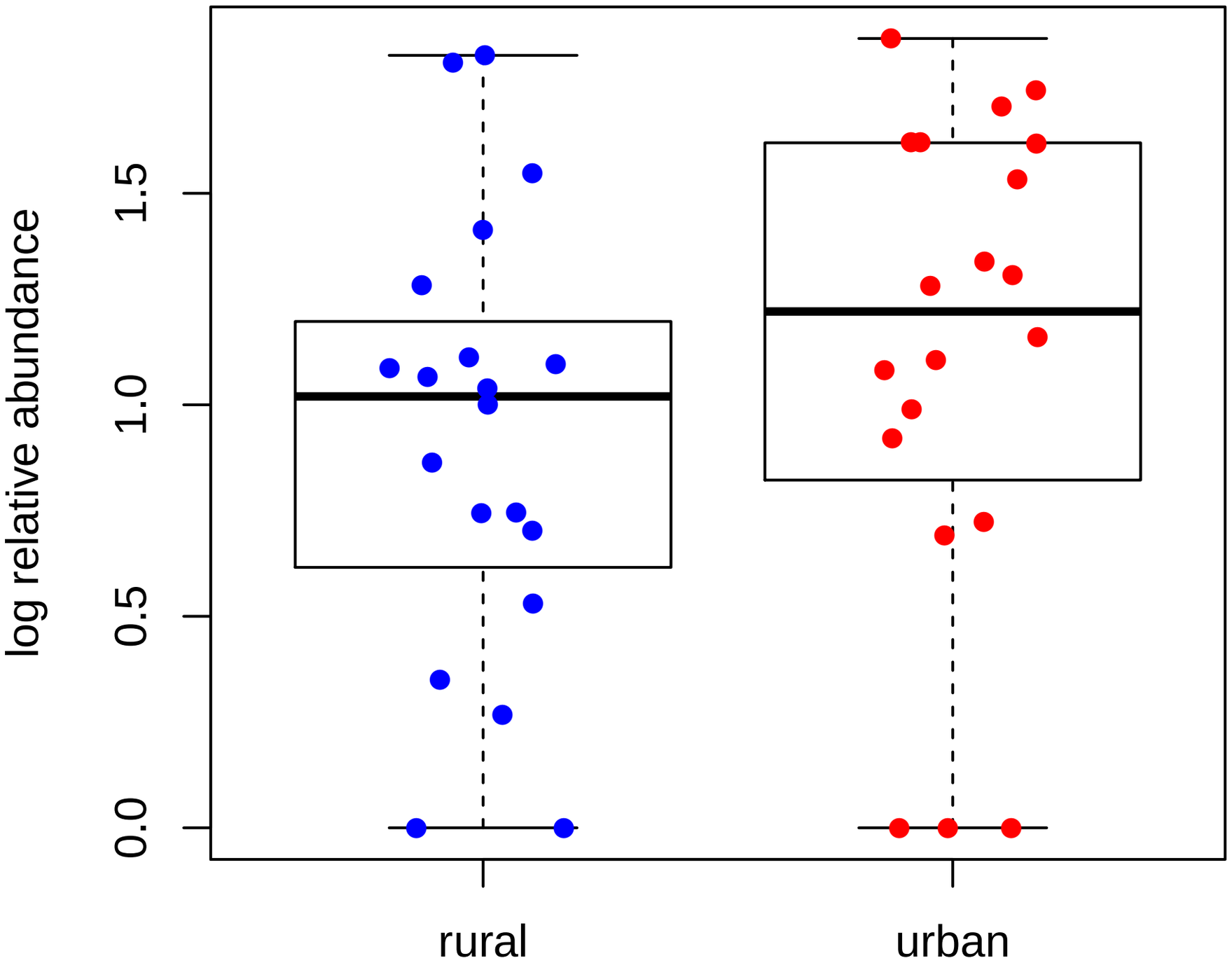

WGS species: Deinococcus_deserti
pAdjRuralUrban= 0.461
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

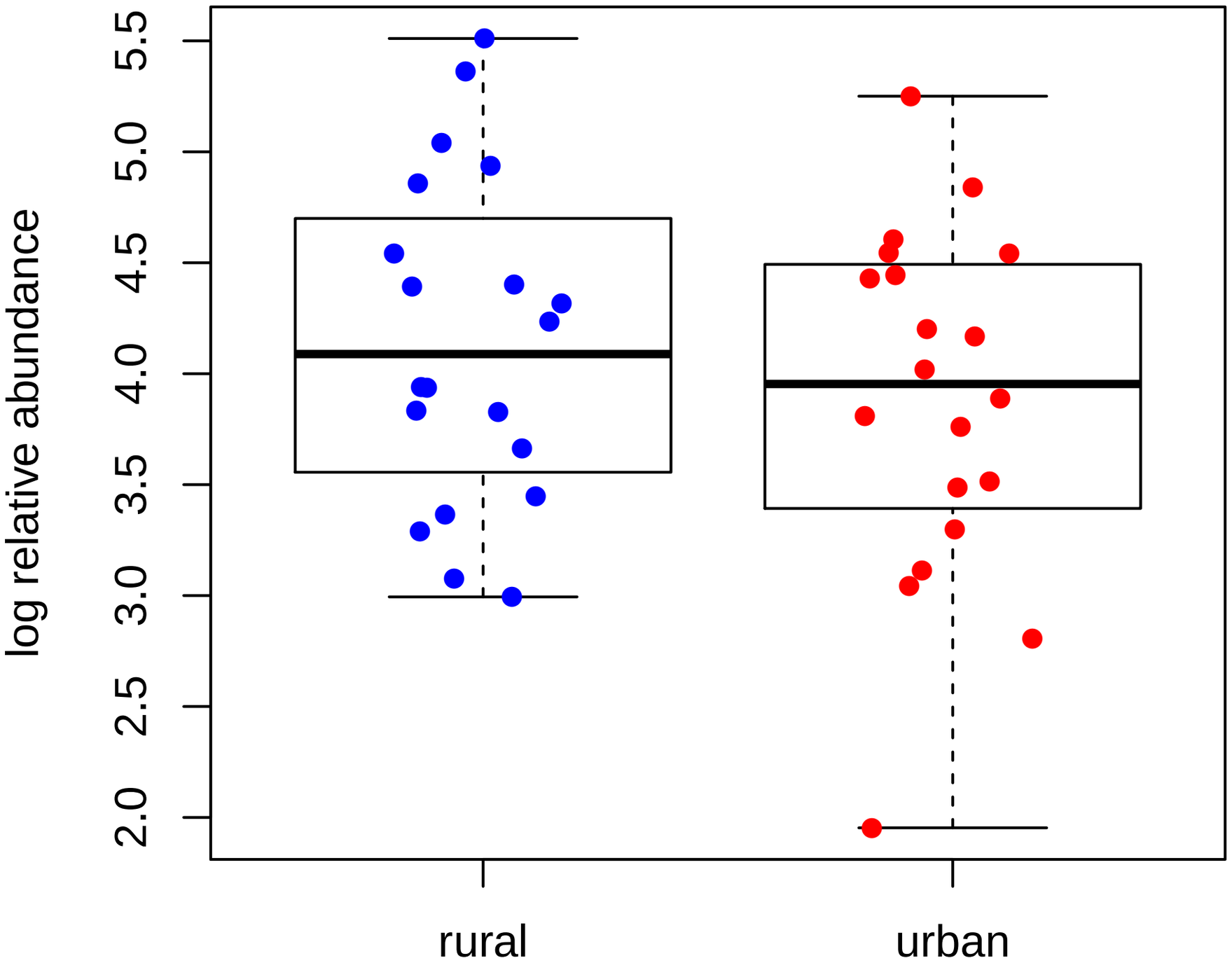

WGS species: Hyphomicrobium_nitrativorans
pAdjRuralUrban= 0.461
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

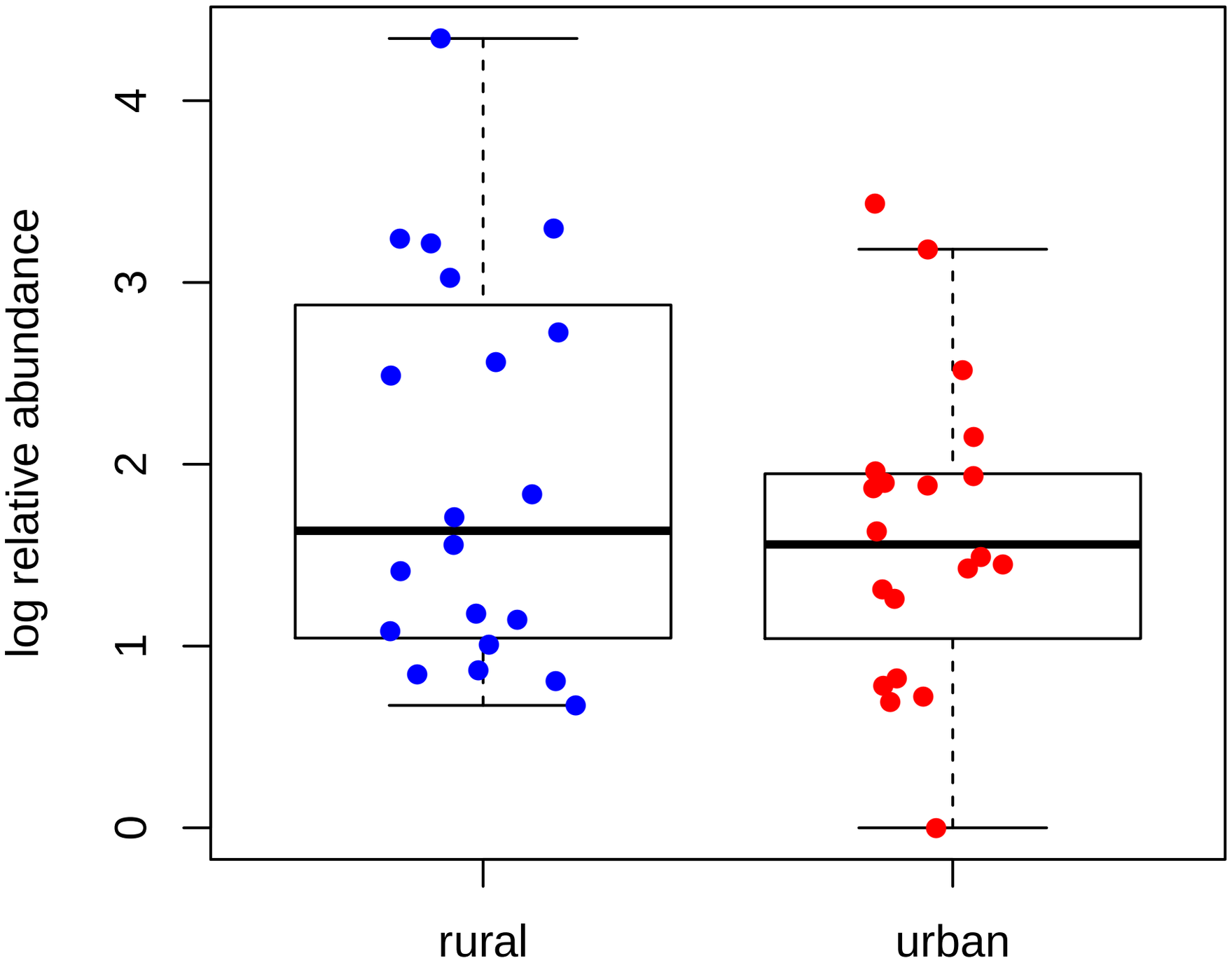

WGS species: Eubacterium_rectale
pAdjRuralUrban= 0.462
log relative abundance
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
rural
urban

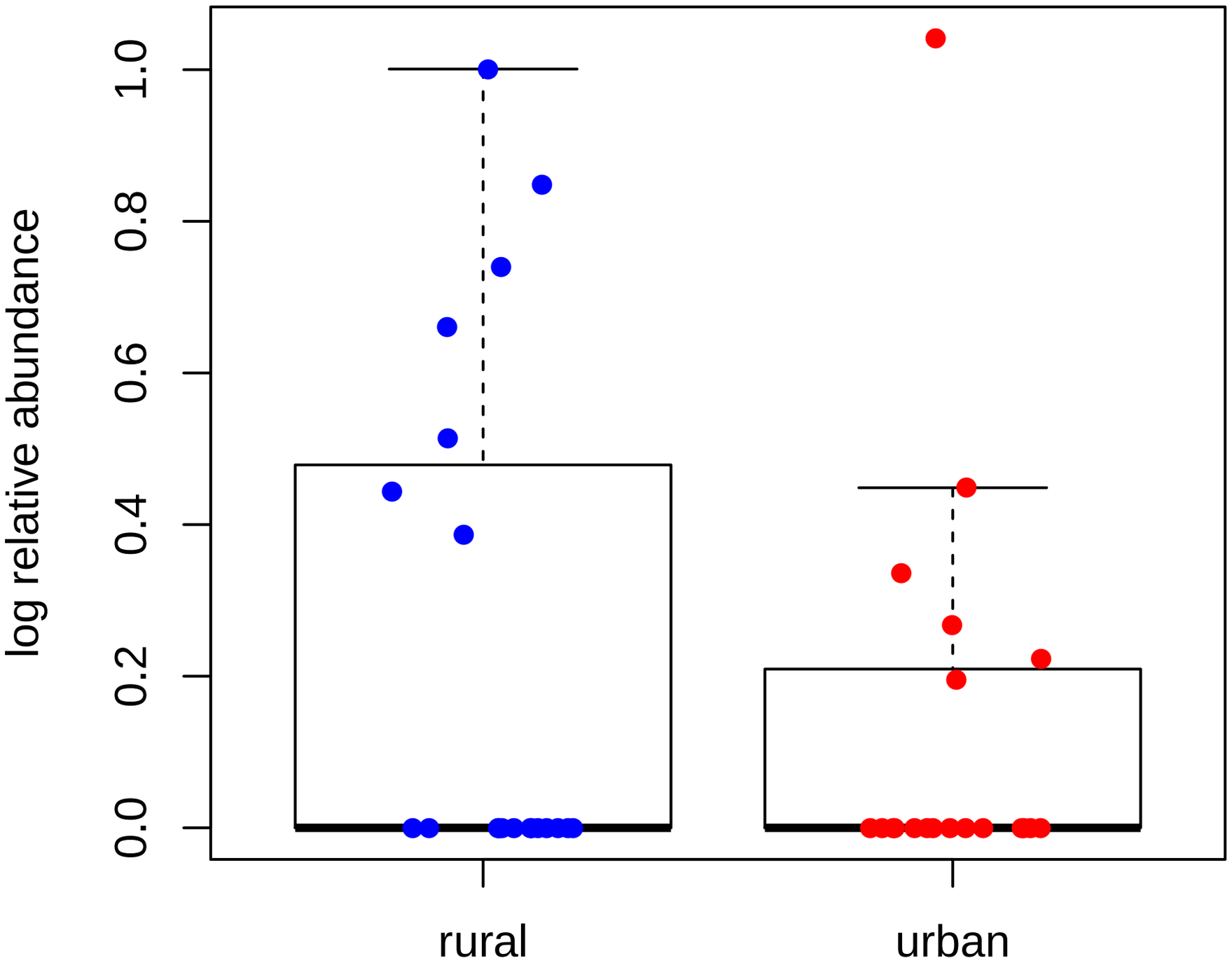

WGS species: Streptomyces_venezuelae
pAdjRuralUrban= 0.464
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

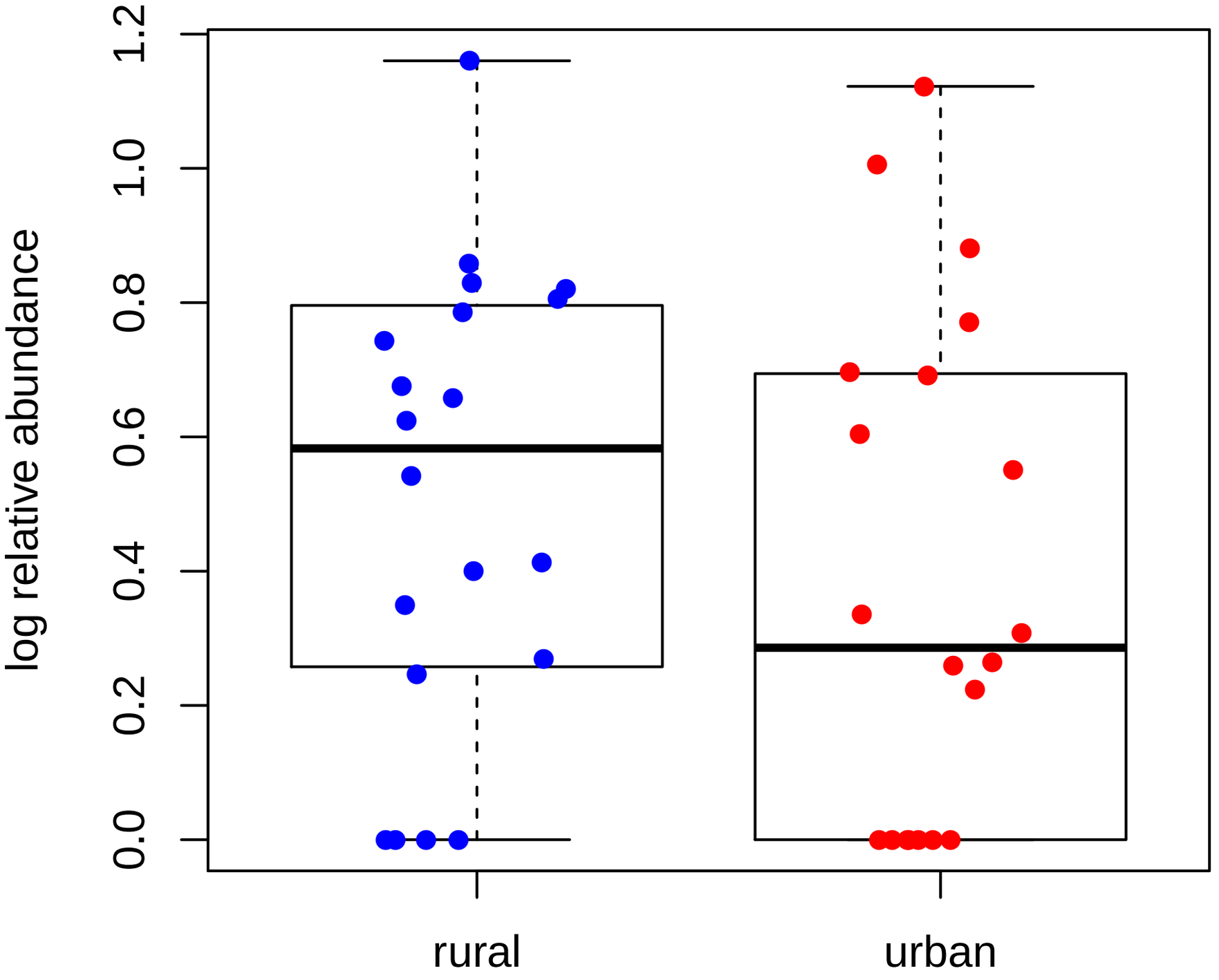

WGS species: Phaeobacter_gallaeciensis
pAdjRuralUrban= 0.471
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

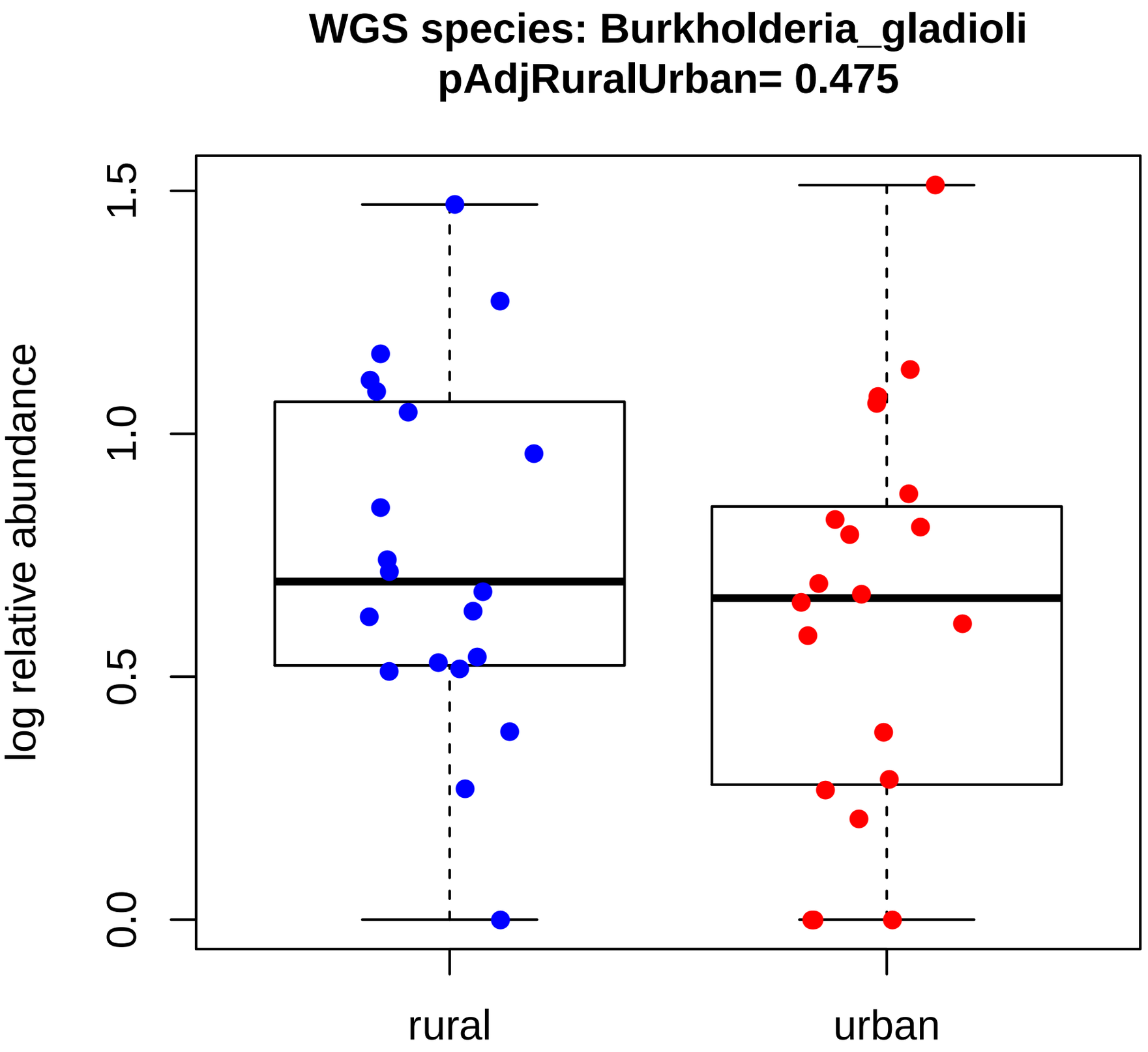

WGS species: Runella_slithyformis
pAdjRuralUrban= 0.472
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

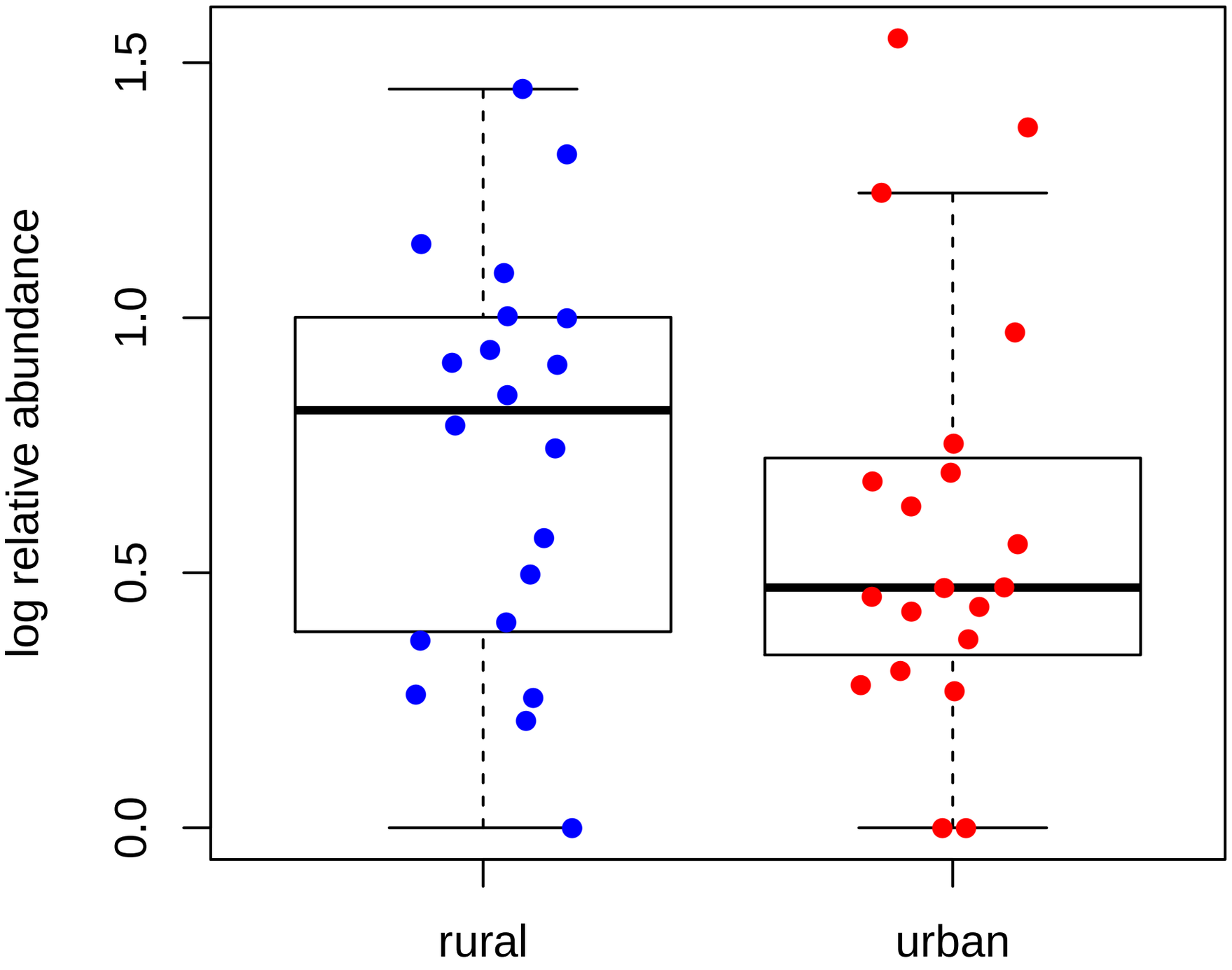

WGS species: Ruminococcus_bromii
pAdjRuralUrban= 0.473
log relative abundance
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
rural
urban

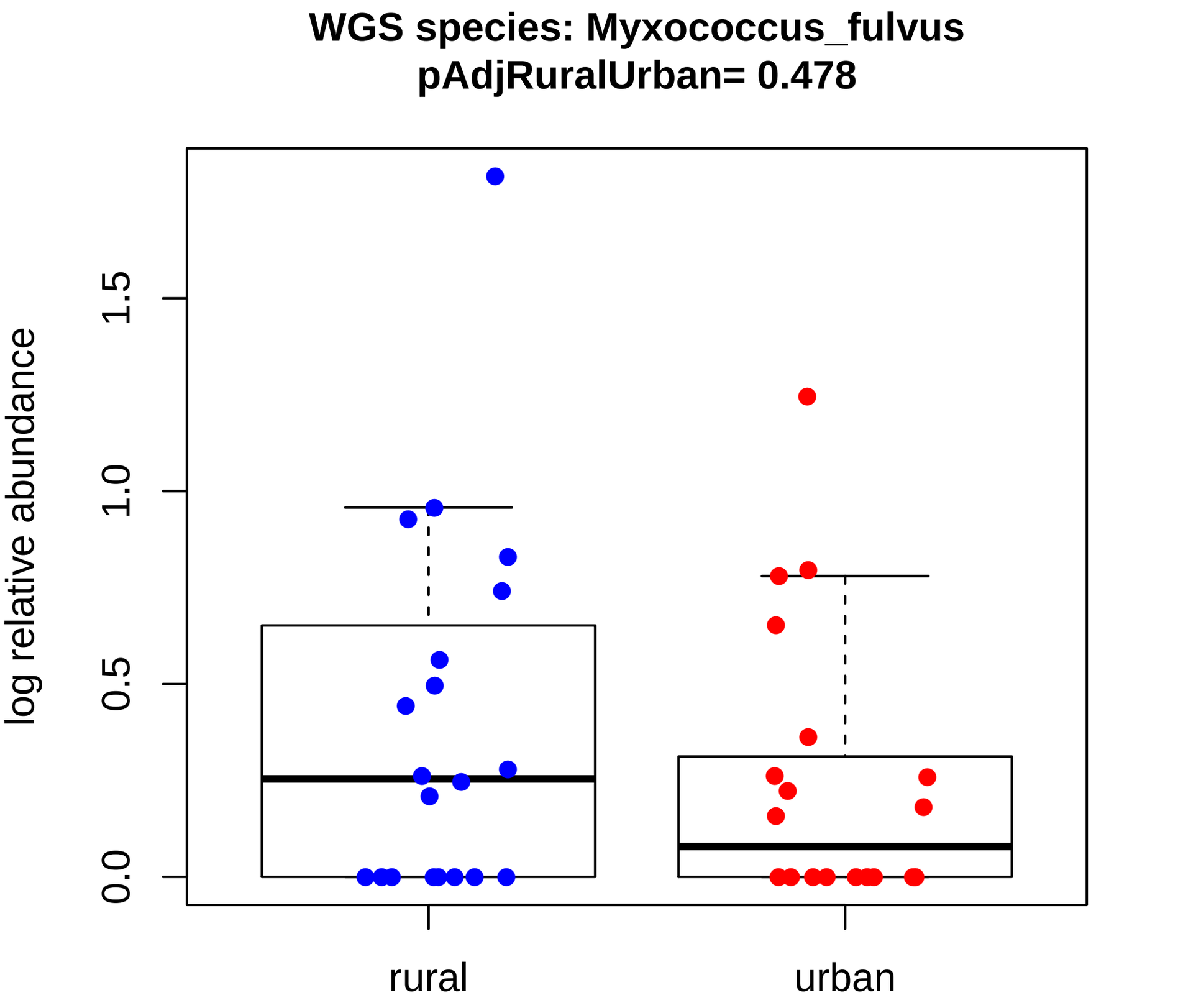

WGS species: Enterobacter_aerogenes
pAdjRuralUrban= 0.473
log relative abundance
0
1
2
3
4
rural
urban

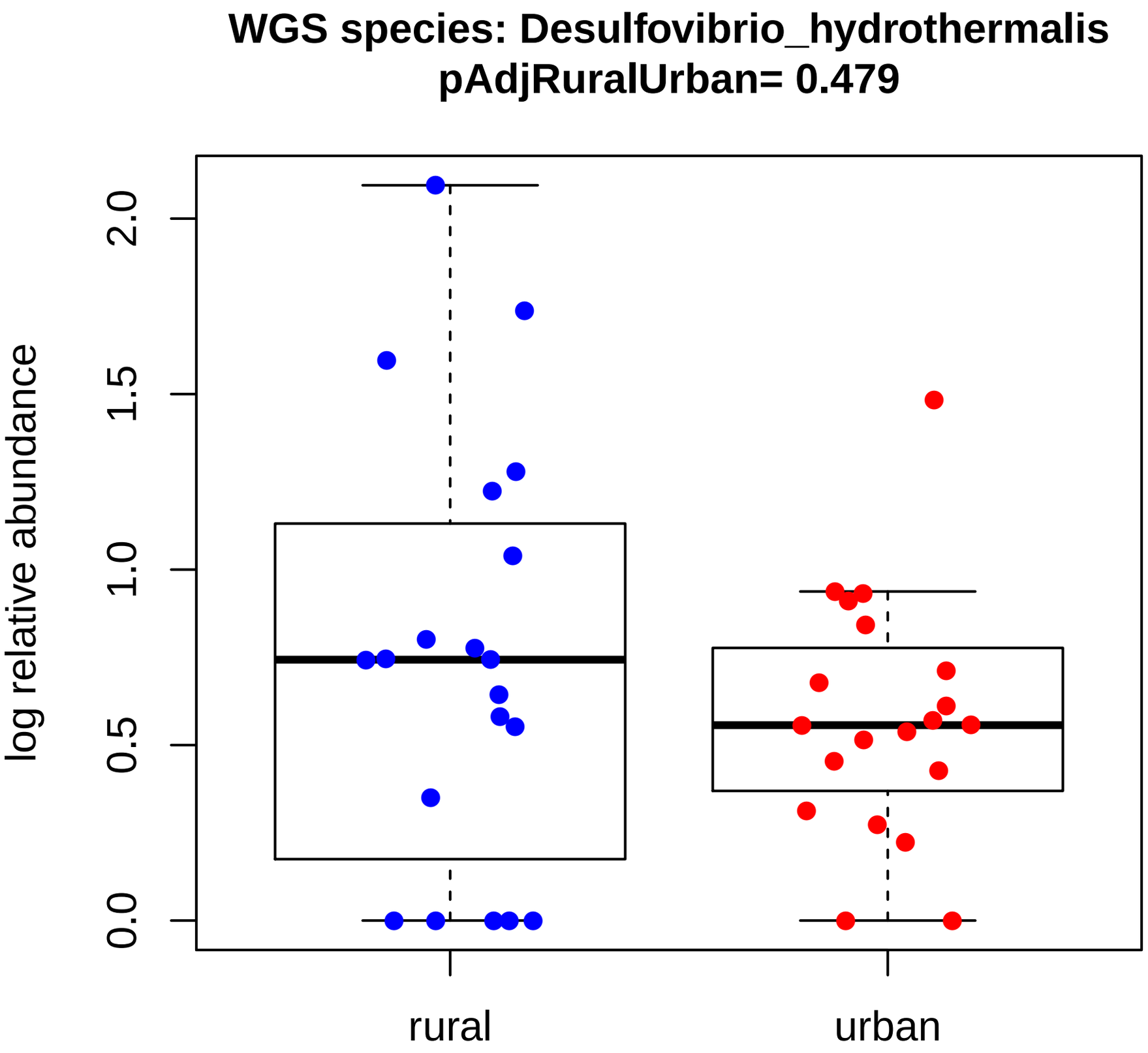

WGS species: Candidatus_Phytoplasma_mali
pAdjRuralUrban= 0.473
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

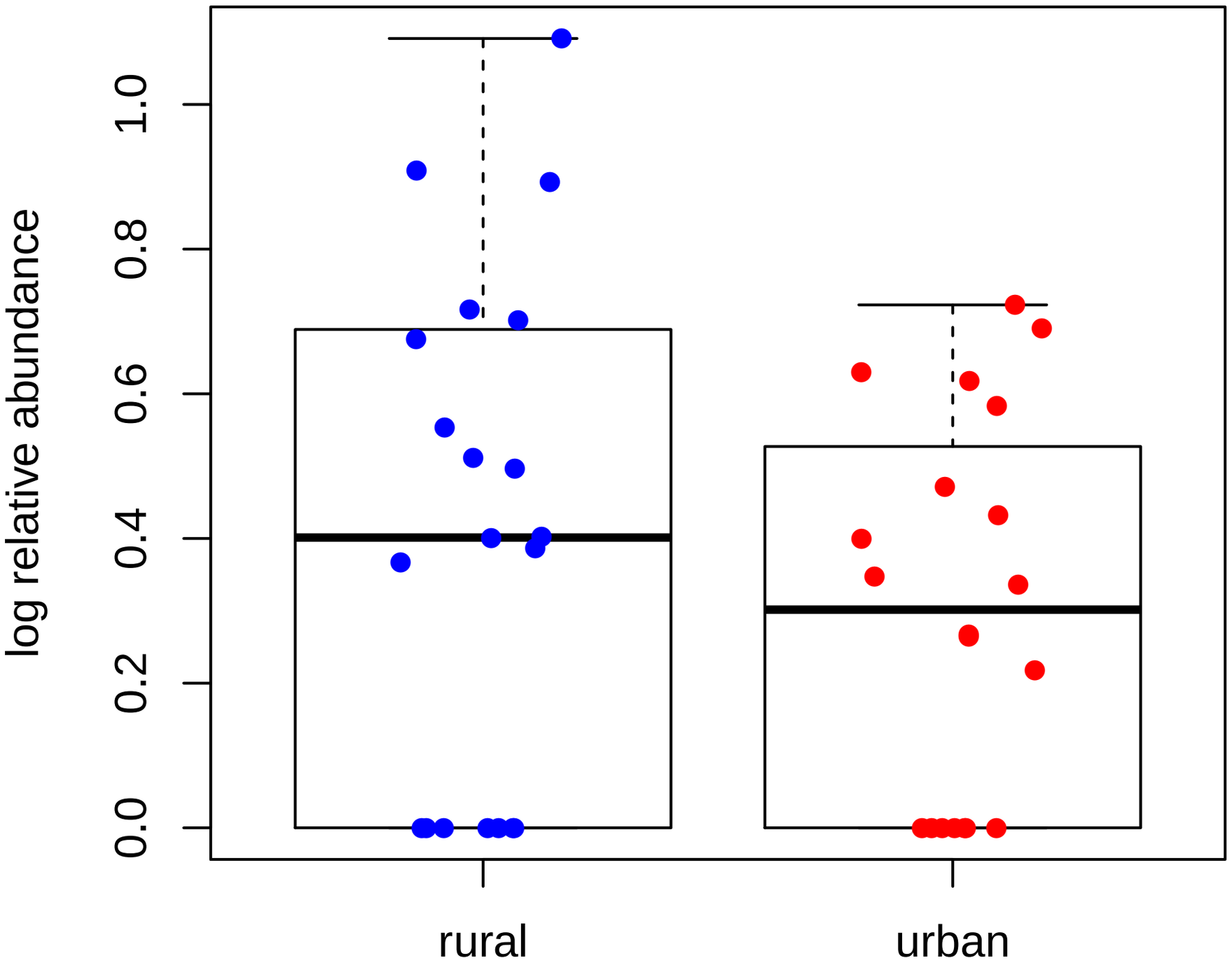

WGS species: Brachyspira_intermedia
pAdjRuralUrban= 0.473
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

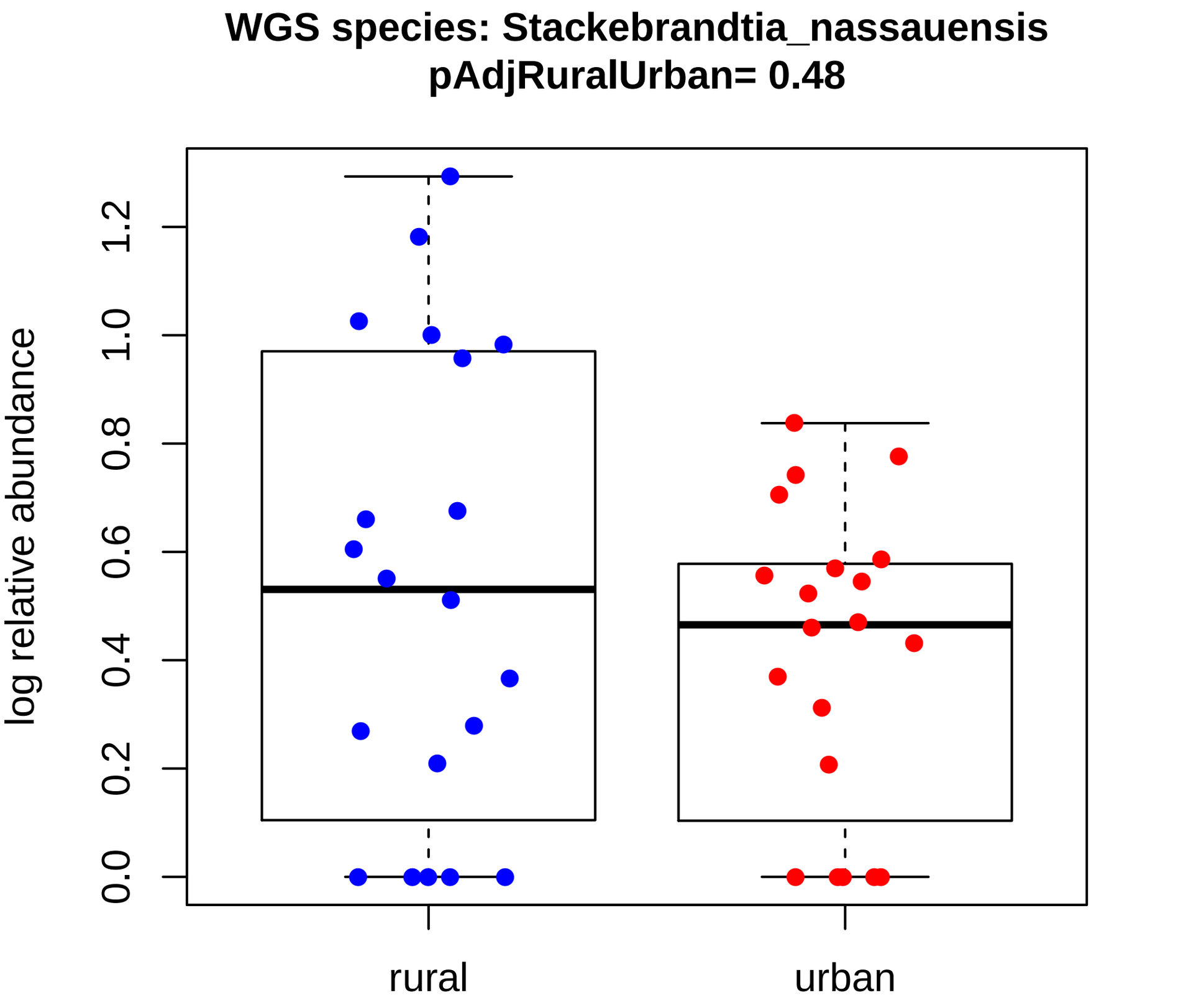

WGS species: Burkholderia_gladioli
pAdjRuralUrban= 0.475
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

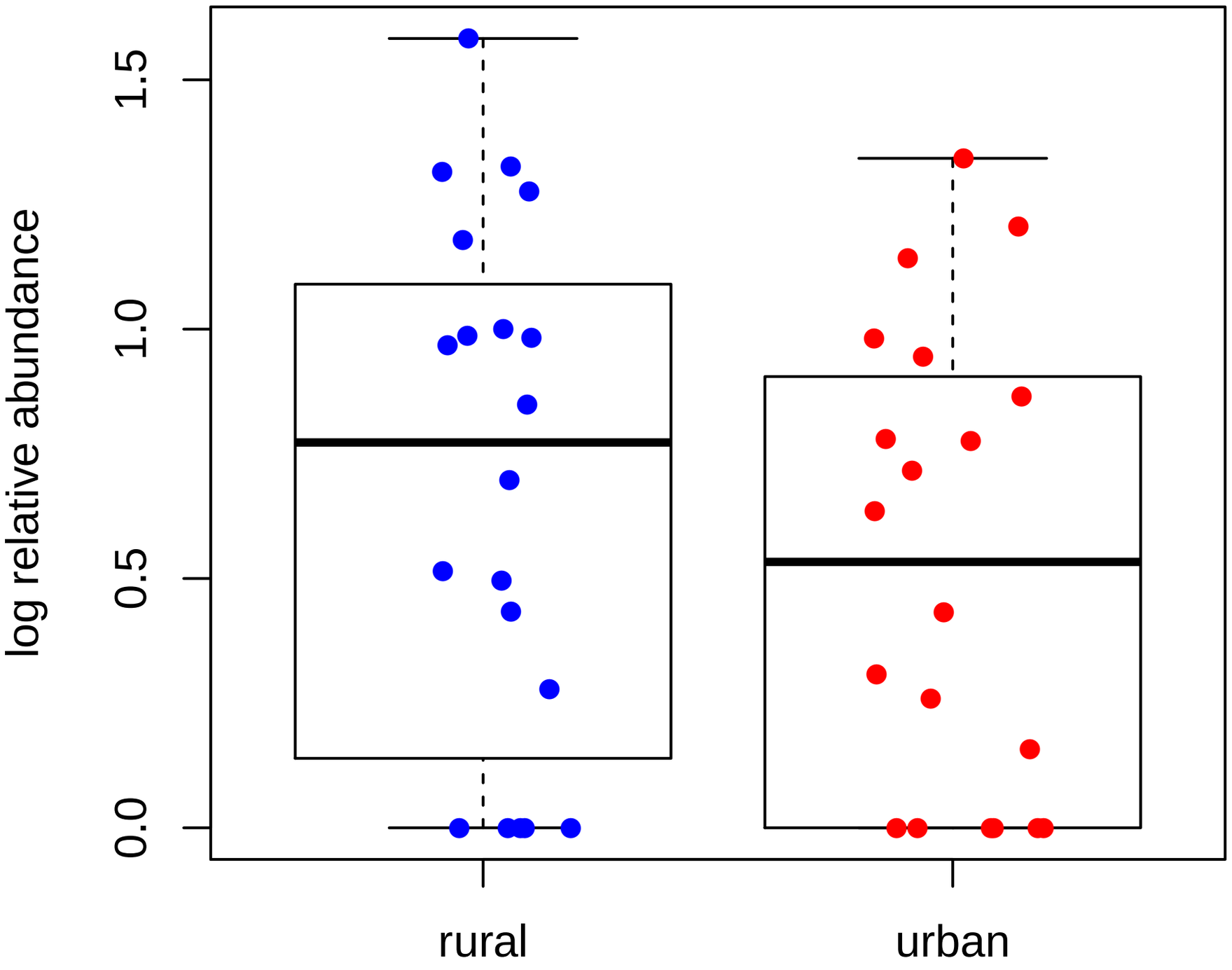

WGS species: Chlorobaculum_parvum
pAdjRuralUrban= 0.476
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

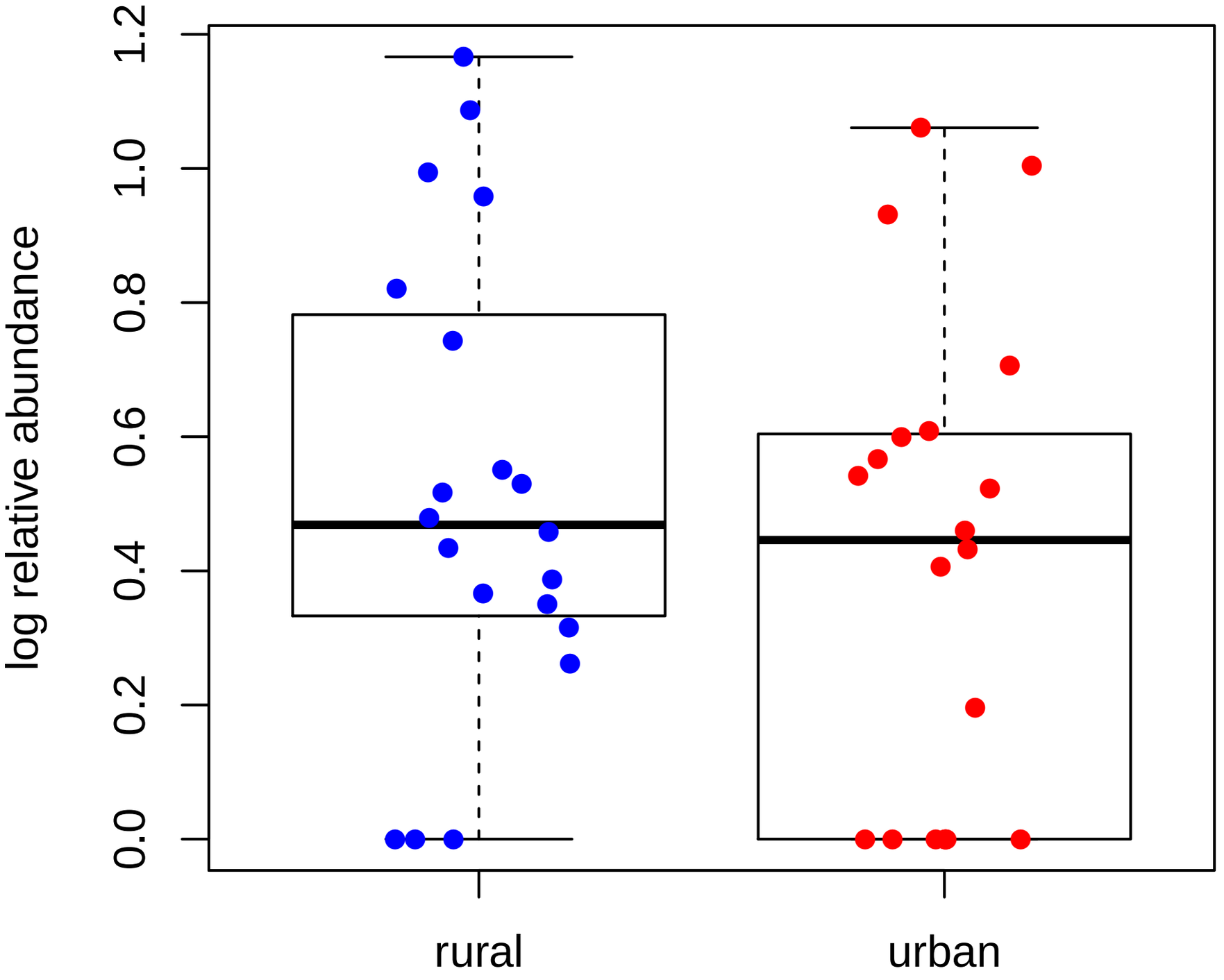

WGS species: Myxococcus_fulvus
pAdjRuralUrban= 0.478
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

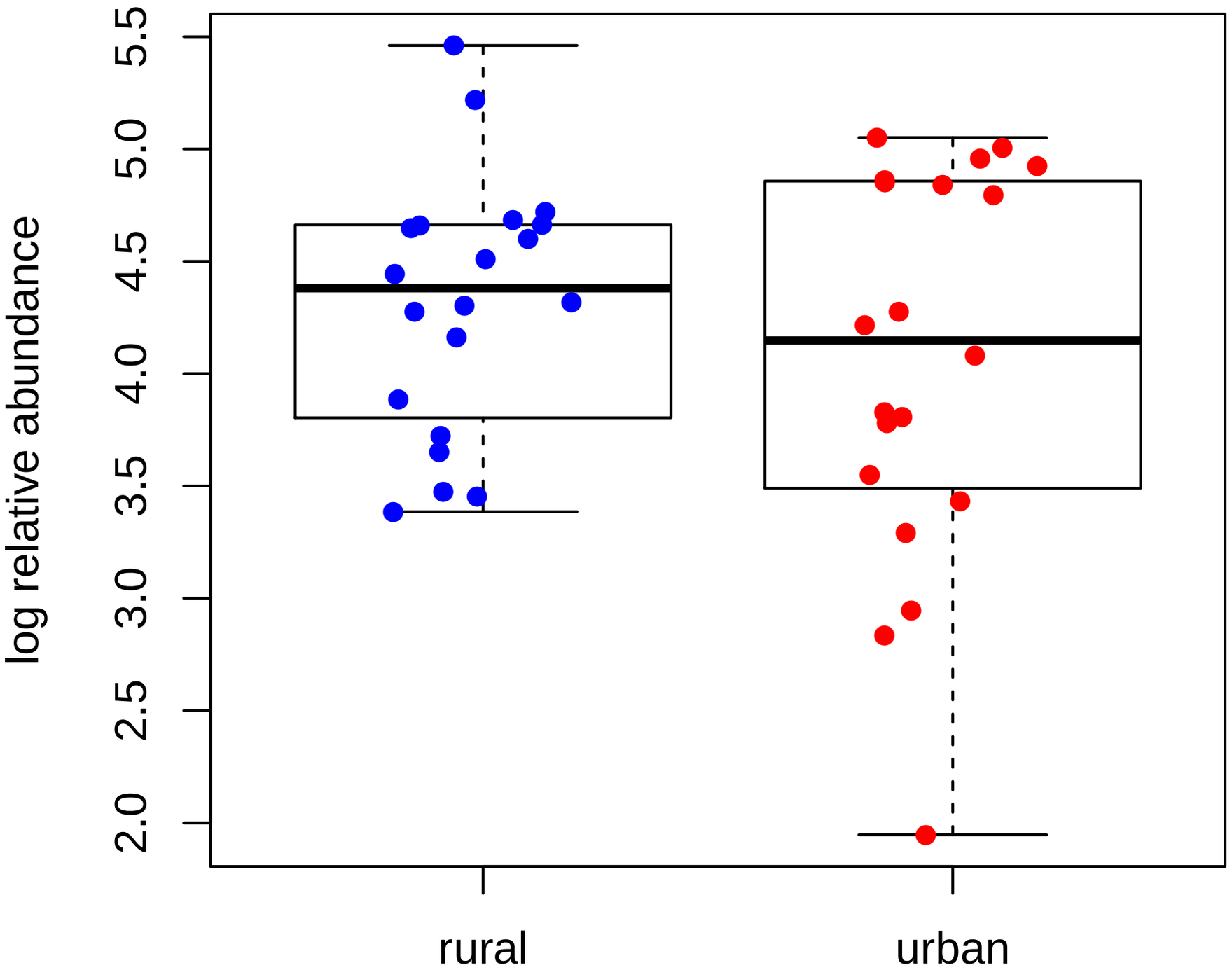

WGS species: Desulfovibrio_hydrothermalis
pAdjRuralUrban= 0.479
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

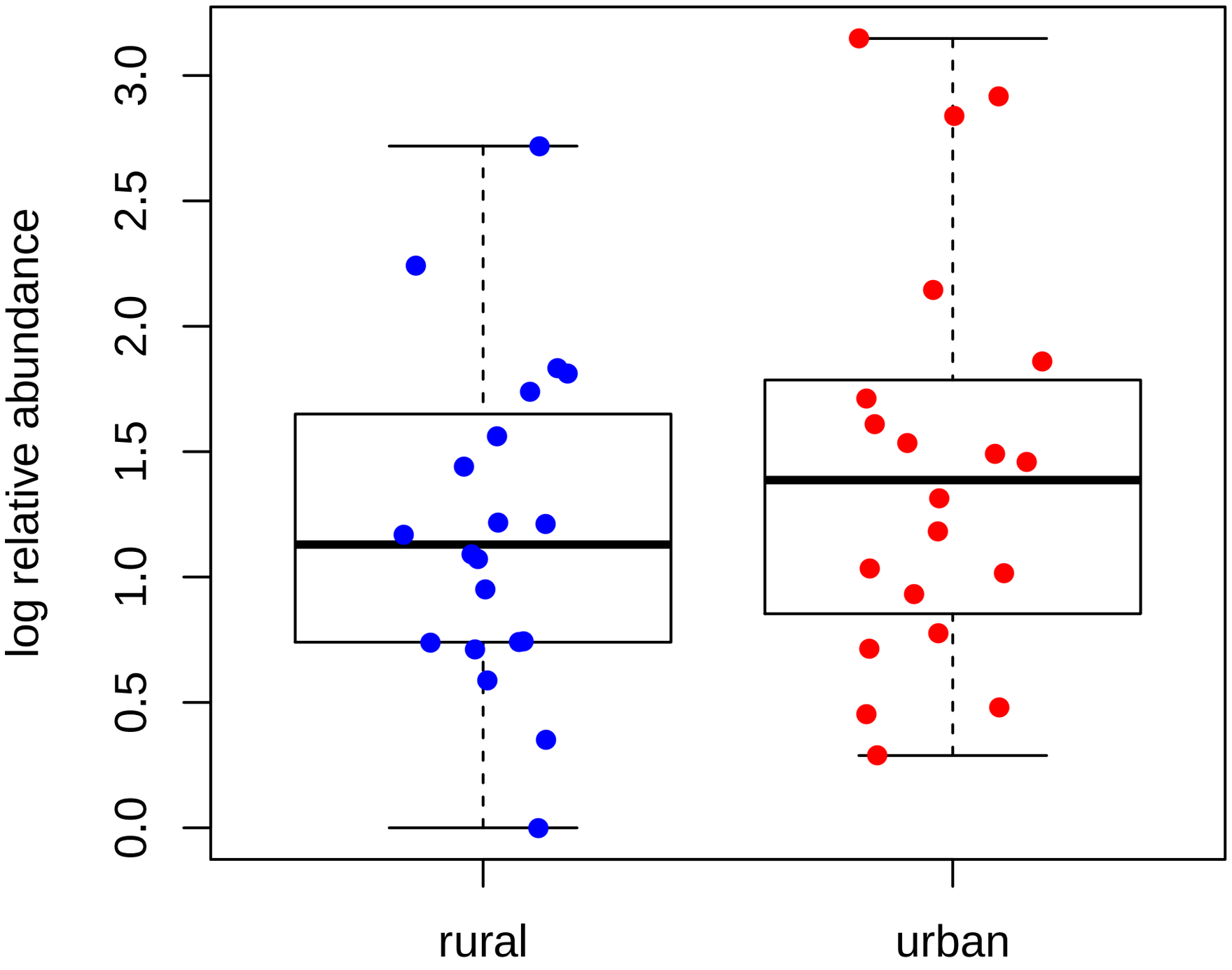

WGS species: Bacillus_pumilus
pAdjRuralUrban= 0.479
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

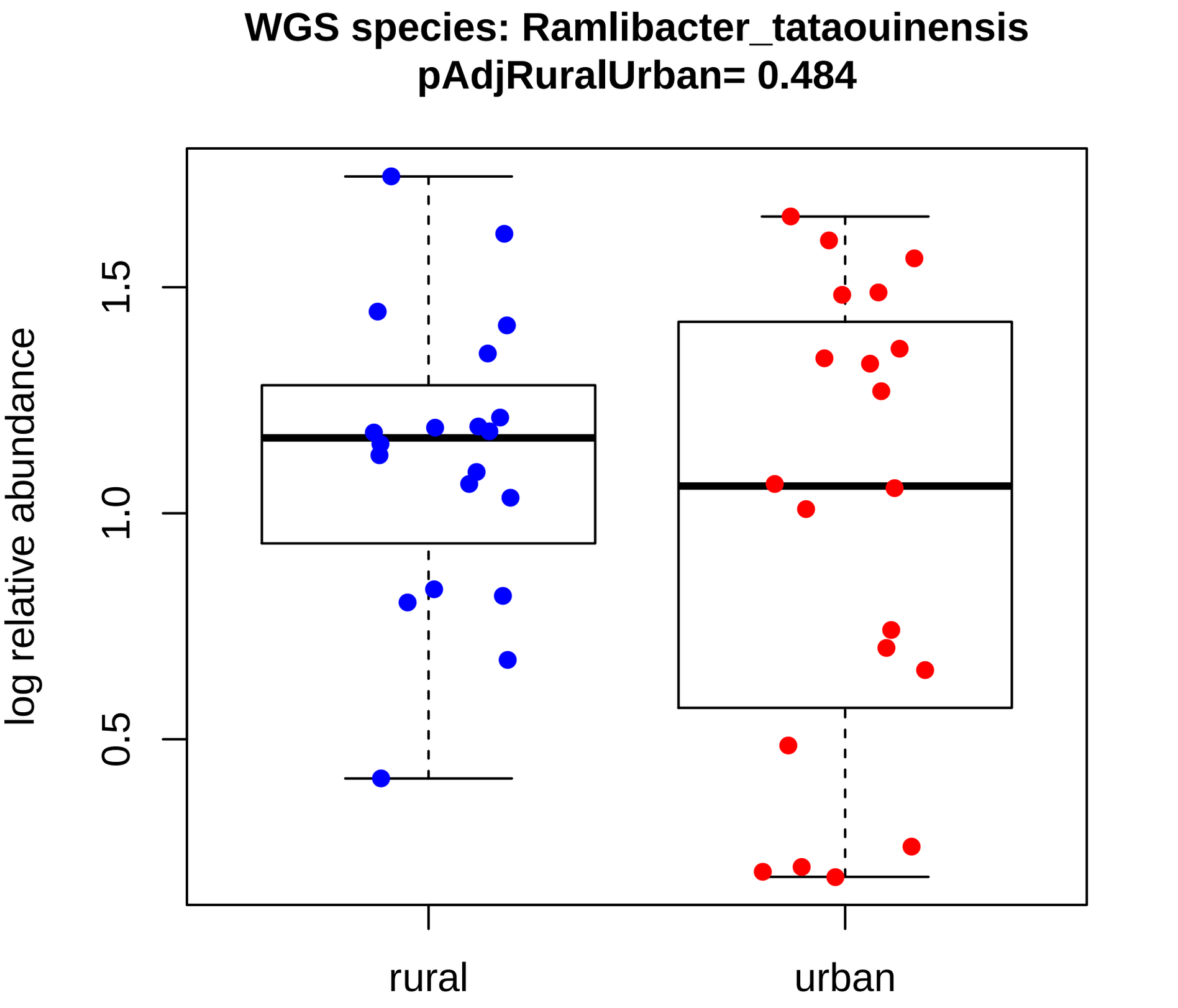

WGS species: Stackebrandtia_nassauensis
pAdjRuralUrban= 0.48
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

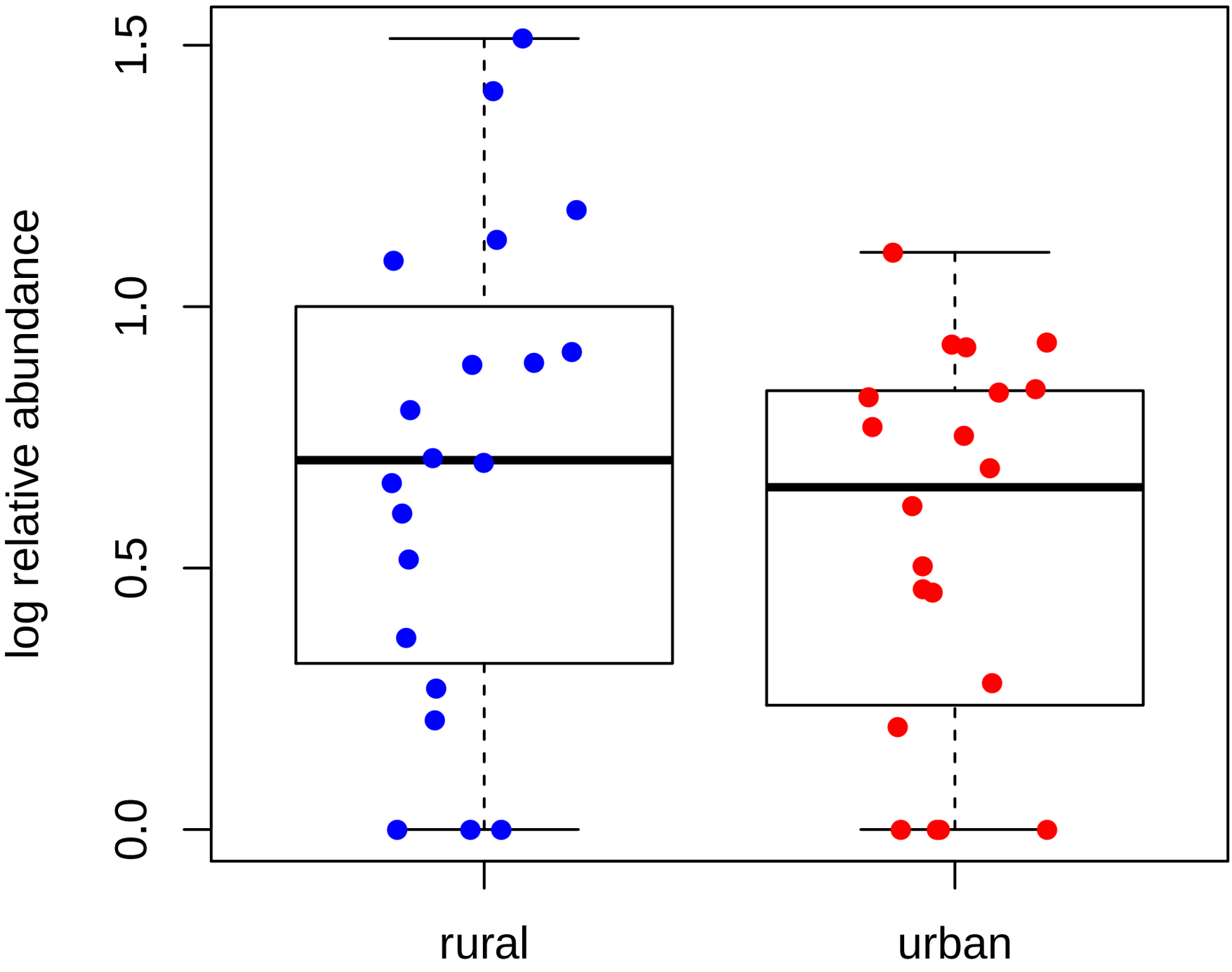

WGS species: Pelodictyon_luteolum
pAdjRuralUrban= 0.481
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

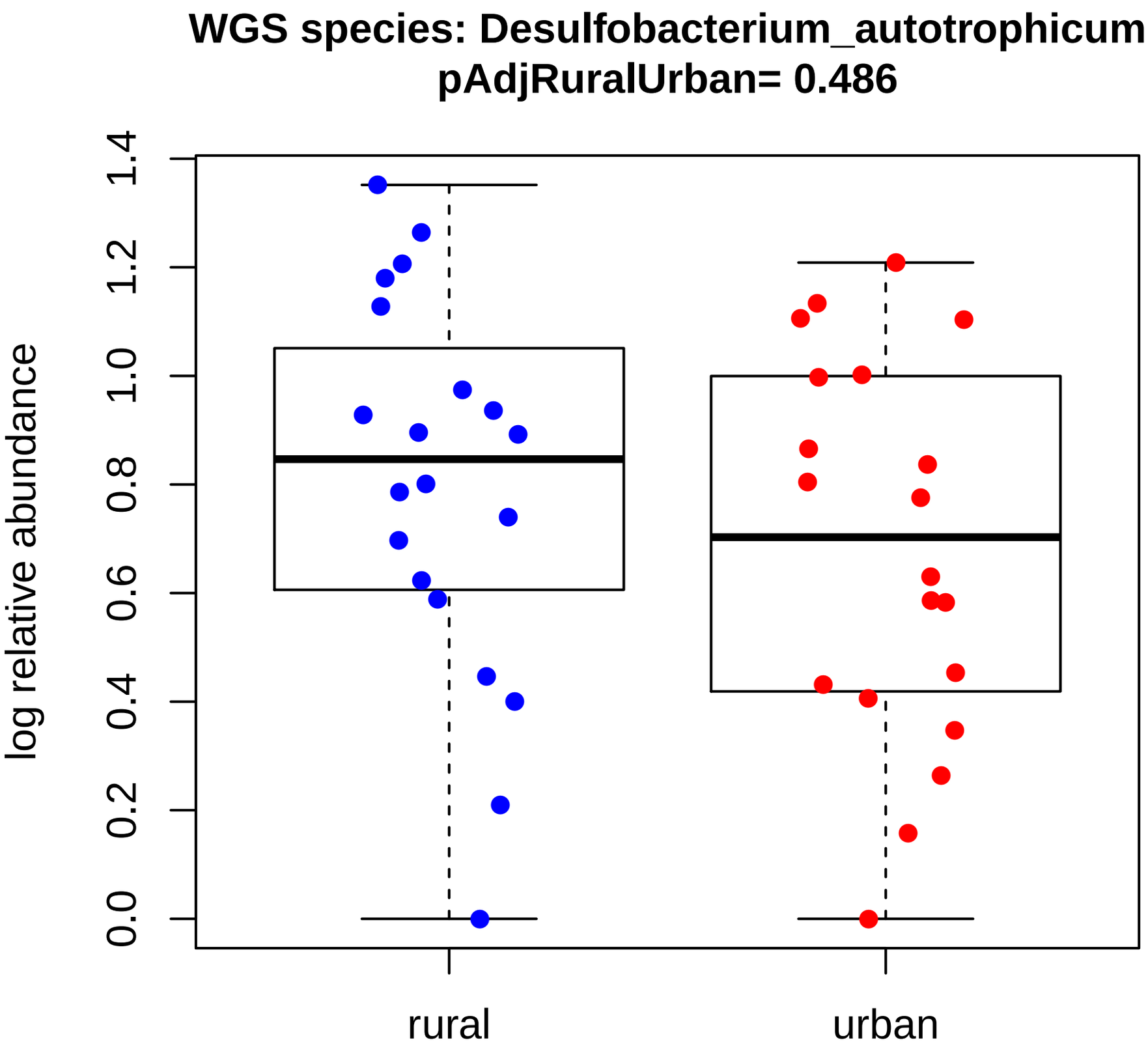

WGS species: Bacillus_pseudofirmus
pAdjRuralUrban= 0.483
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

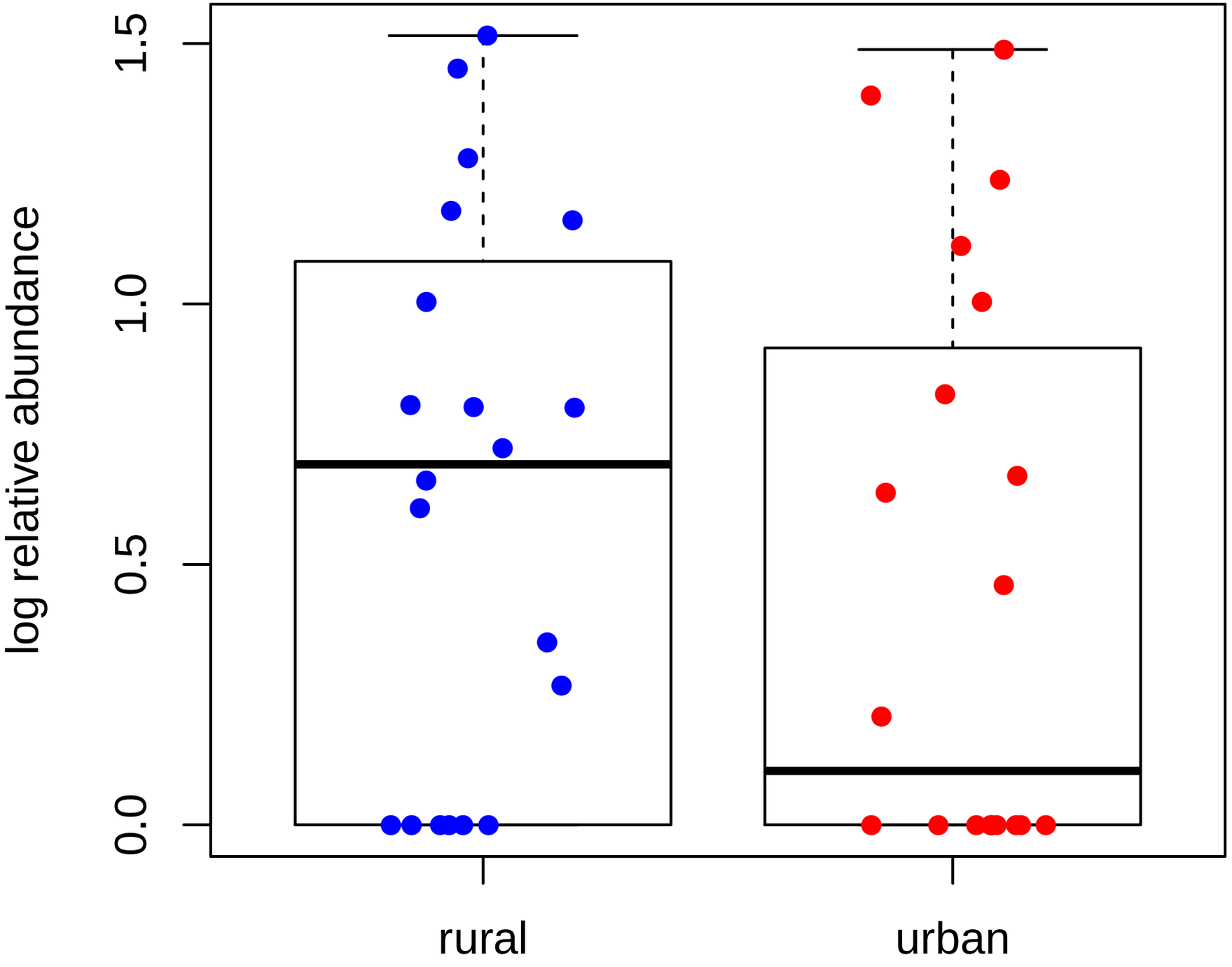

WGS species: X.Eubacterium._eligens
pAdjRuralUrban= 0.483
log relative abundance
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
rural
urban

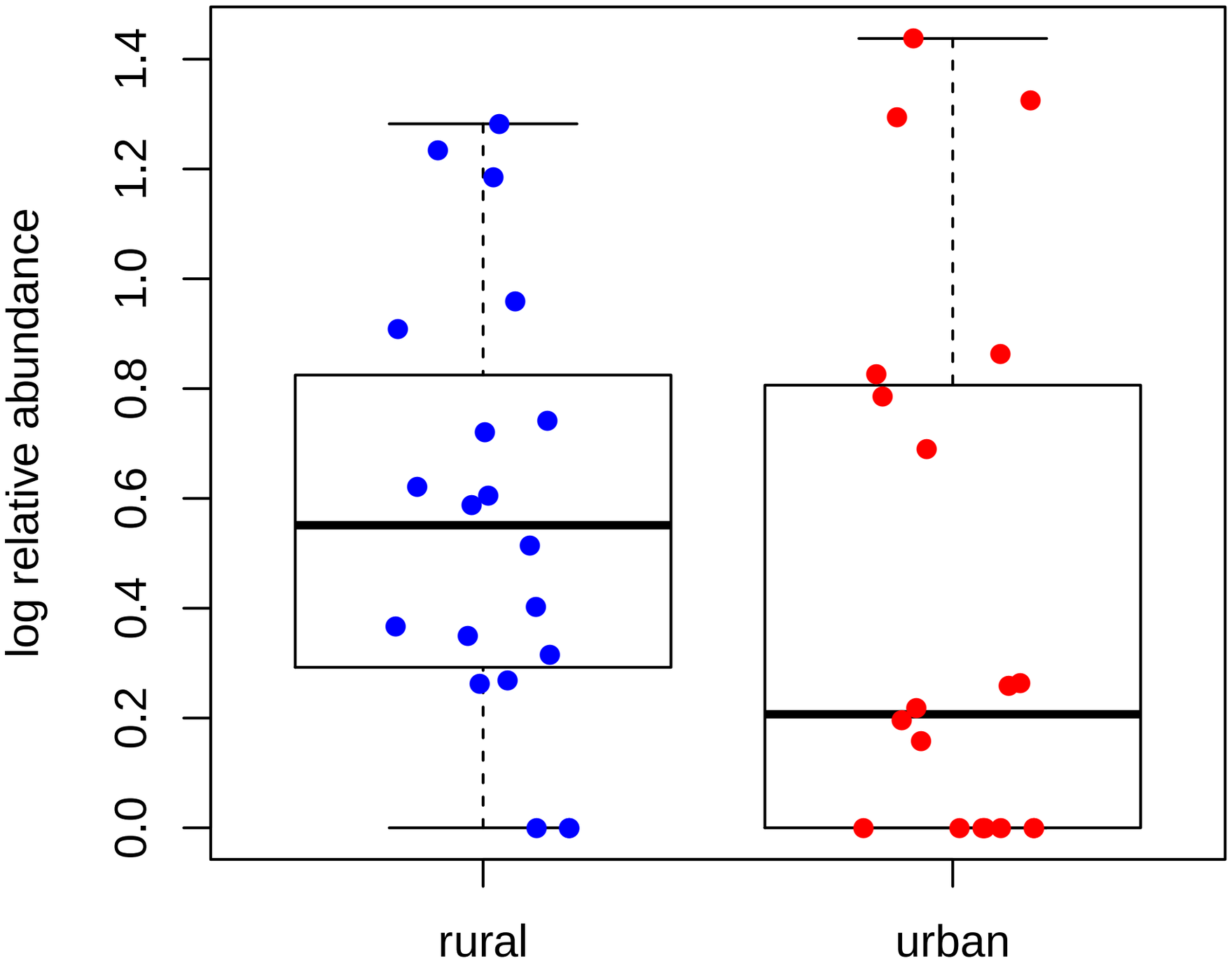

WGS species: Shigella_dysenteriae
pAdjRuralUrban= 0.483
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

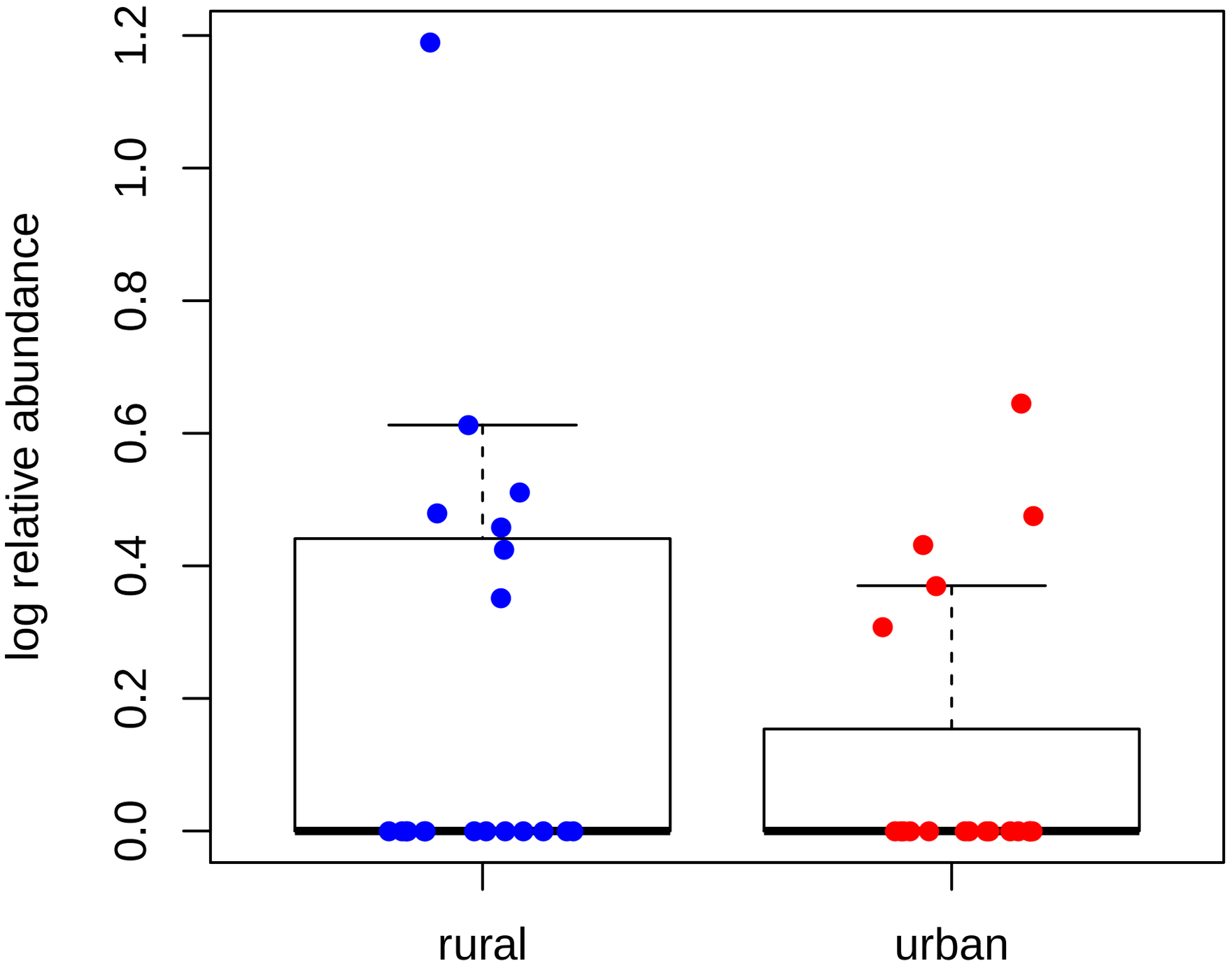

WGS species: Ramlibacter_tataouinensis
pAdjRuralUrban= 0.484
log relative abundance
0.5
1.0
1.5
rural
urban

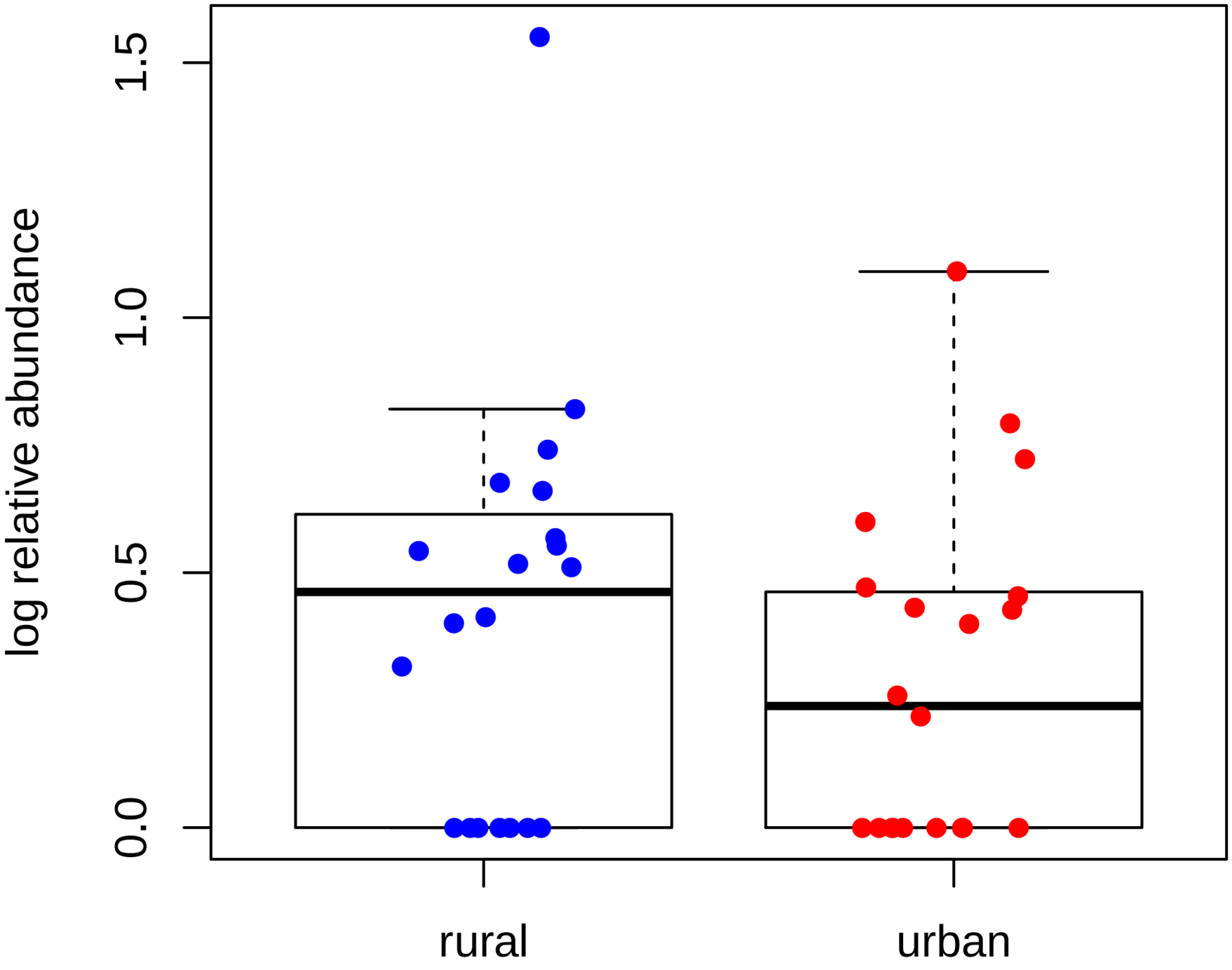

WGS species: Geobacter_bemidjiensis
pAdjRuralUrban= 0.485
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

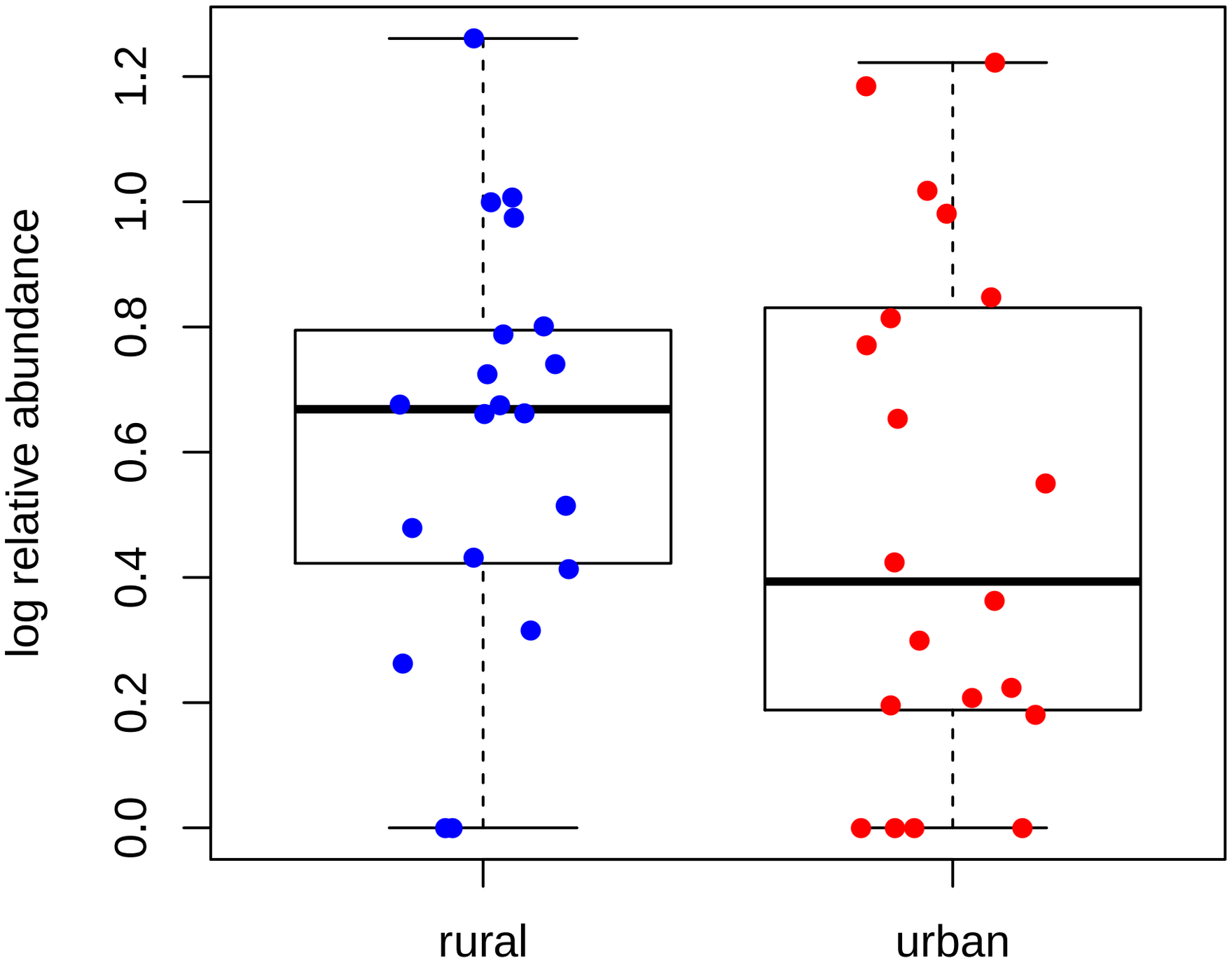

WGS species: Desulfobacterium_autotrophicum
pAdjRuralUrban= 0.486
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

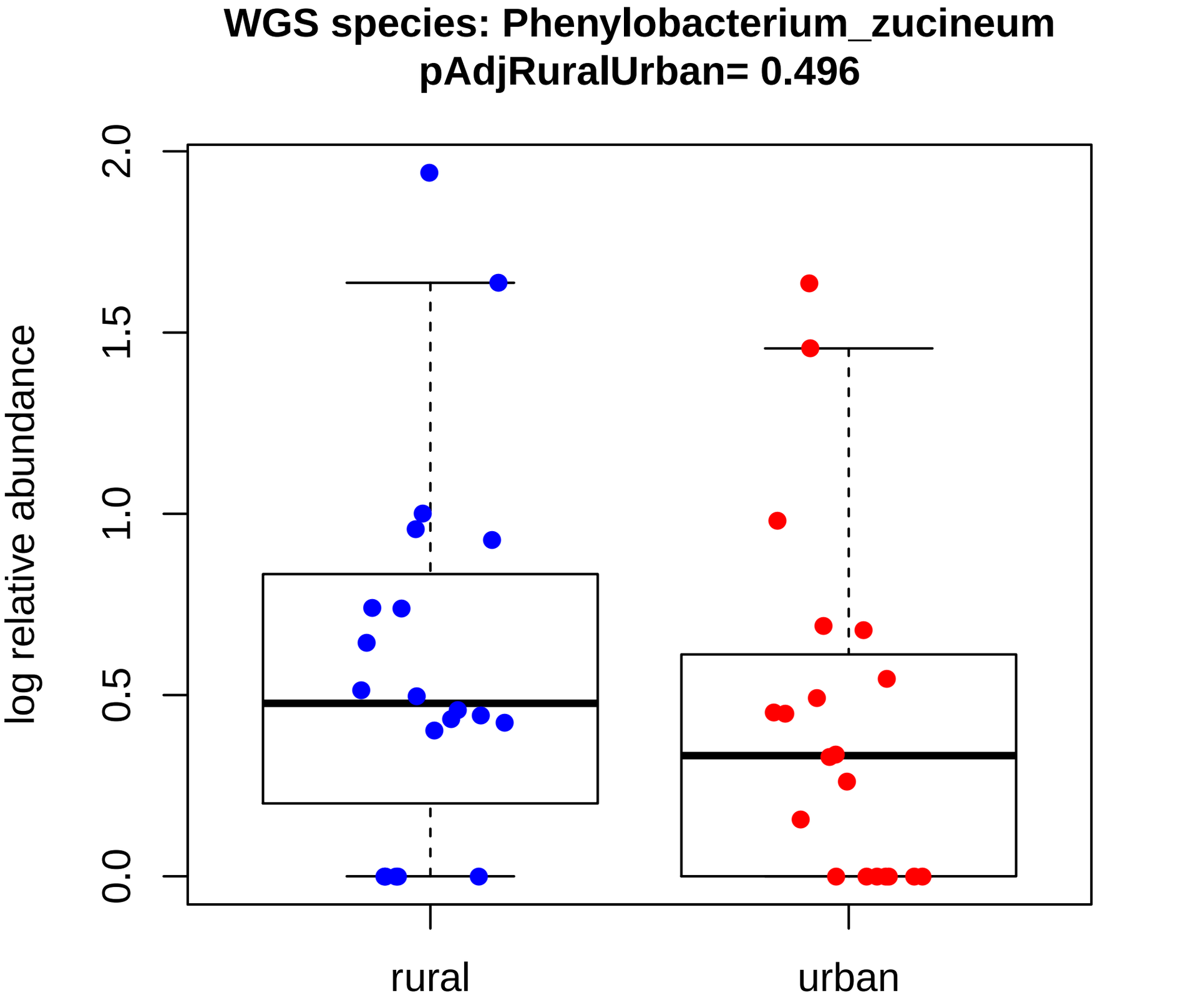

WGS species: Rhodomicrobium_vannielii
pAdjRuralUrban= 0.488
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

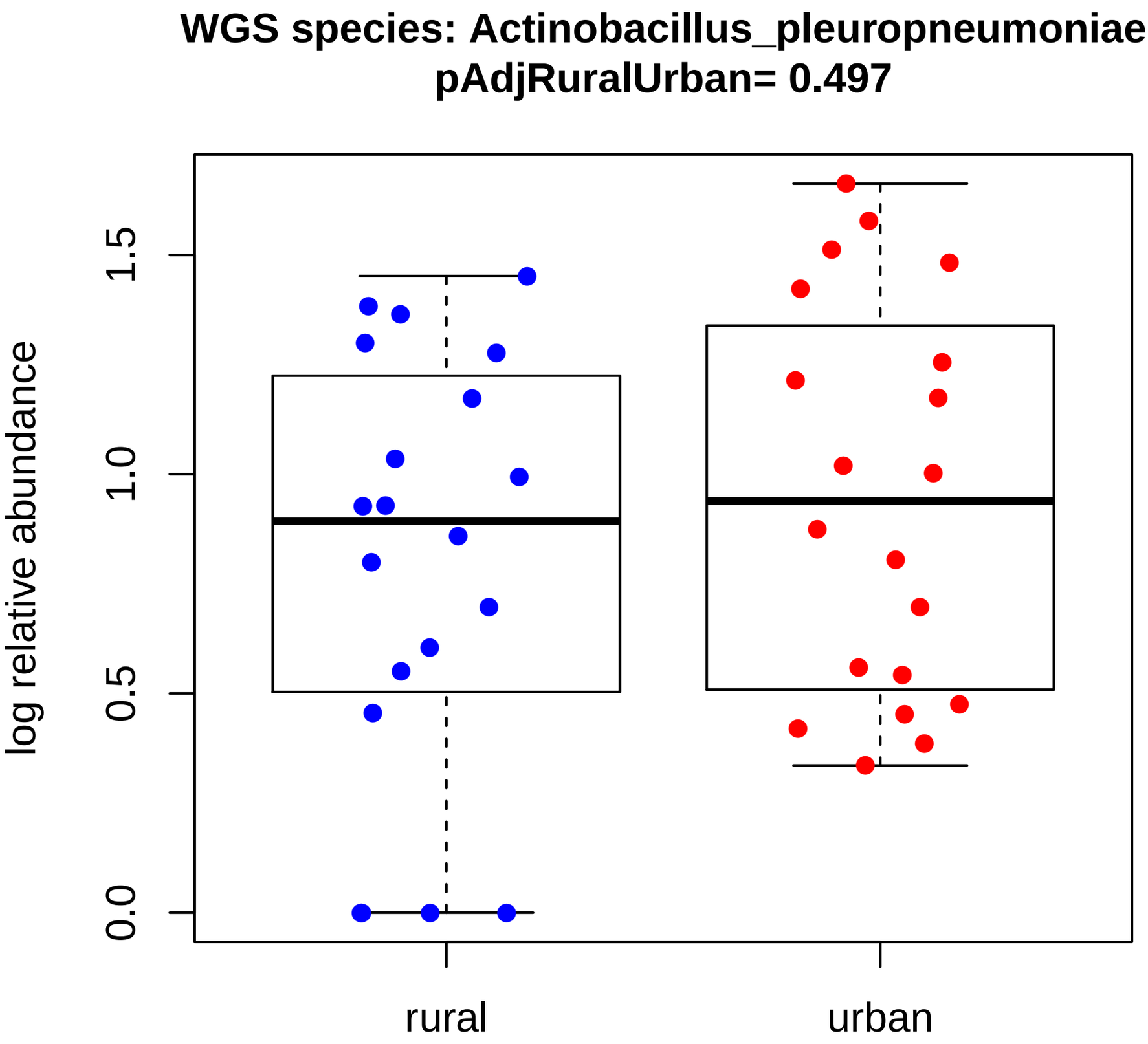

WGS species: Enterococcus_mundtii
pAdjRuralUrban= 0.488
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

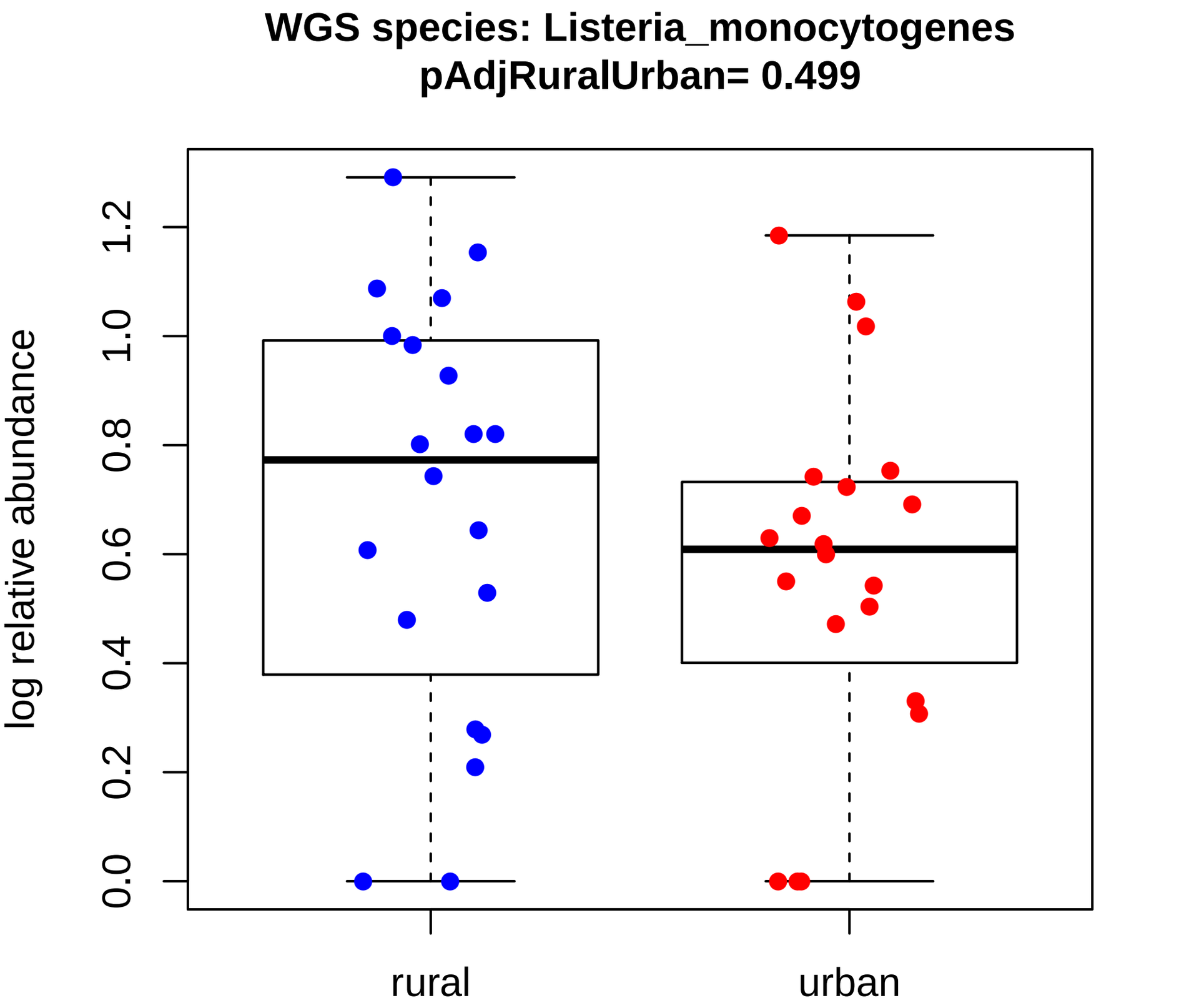

WGS species: Thermodesulfatator_indicus
pAdjRuralUrban= 0.489
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

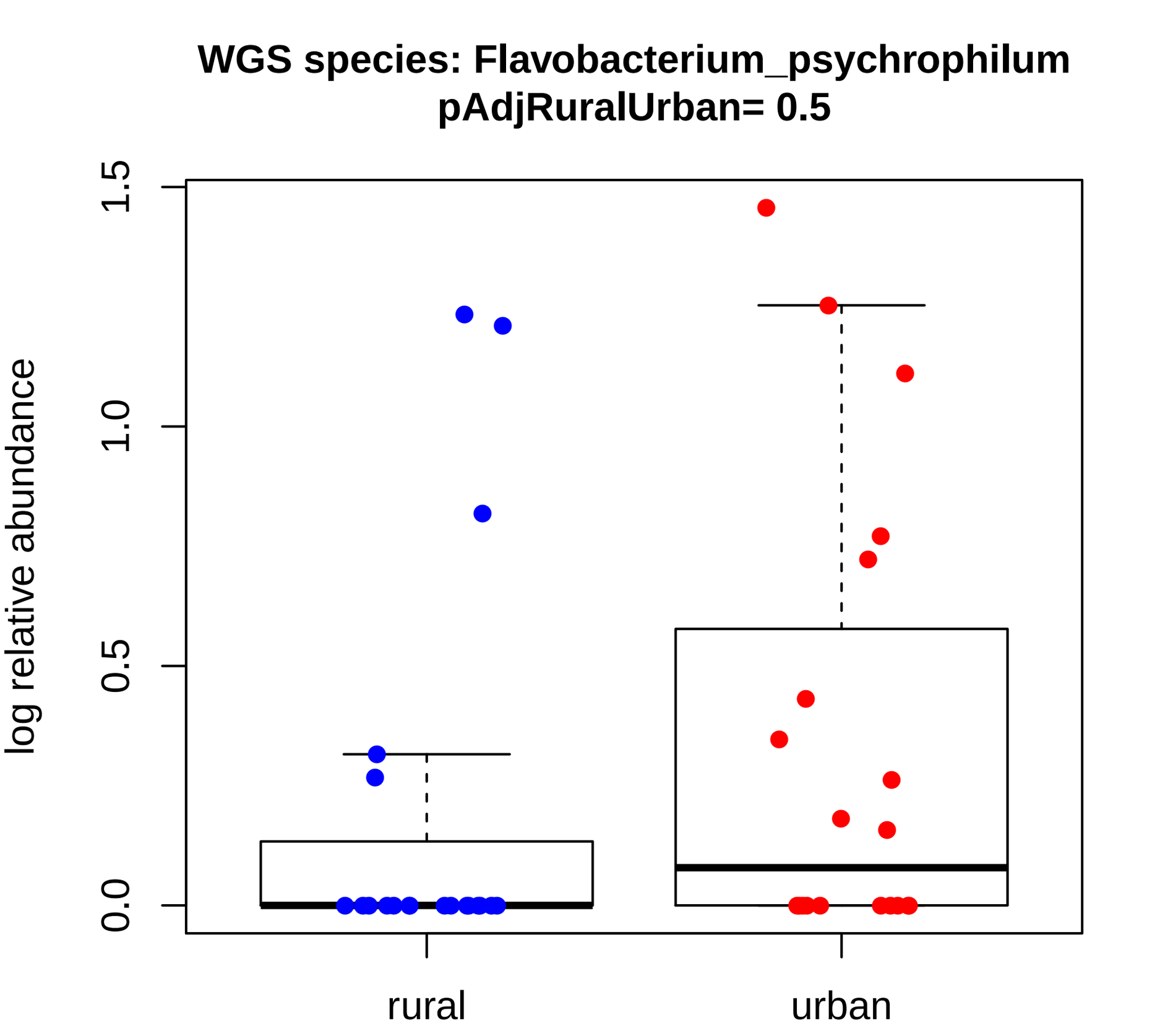

WGS species: Trichormus_azollae
pAdjRuralUrban= 0.49
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

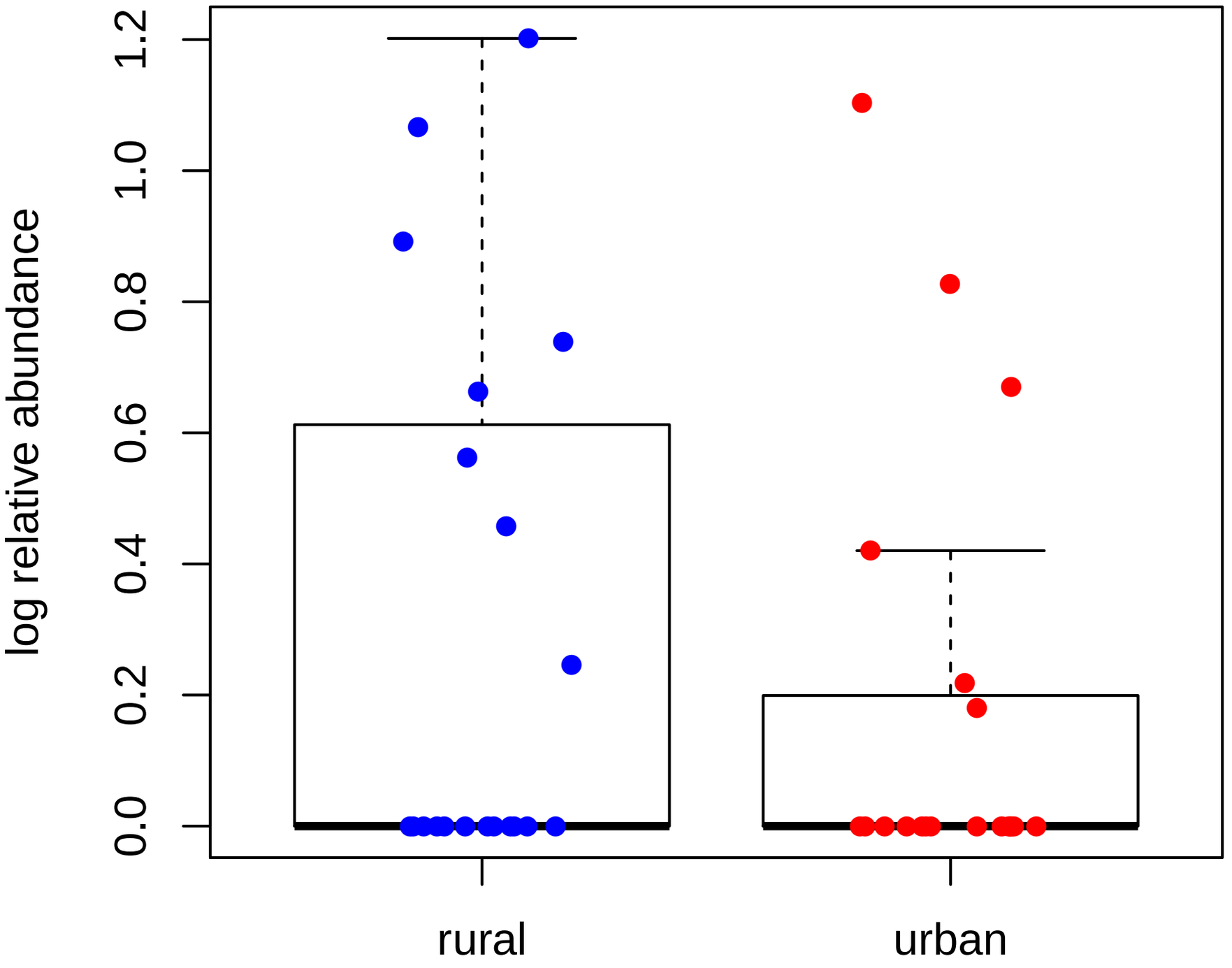

WGS species: Mycoplasma_synoviae
pAdjRuralUrban= 0.491
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

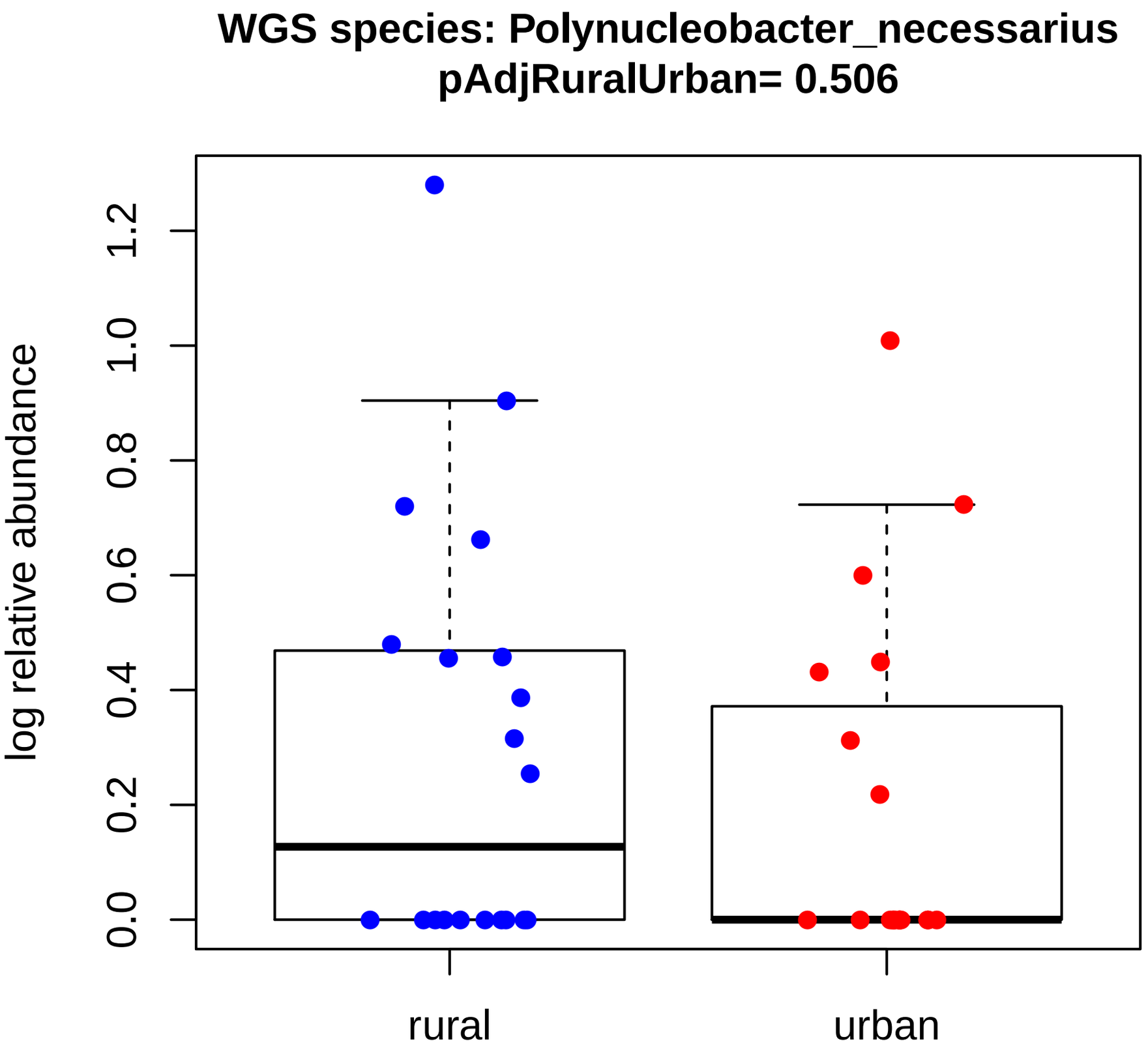

WGS species: Phenylobacterium_zucineum
pAdjRuralUrban= 0.496
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

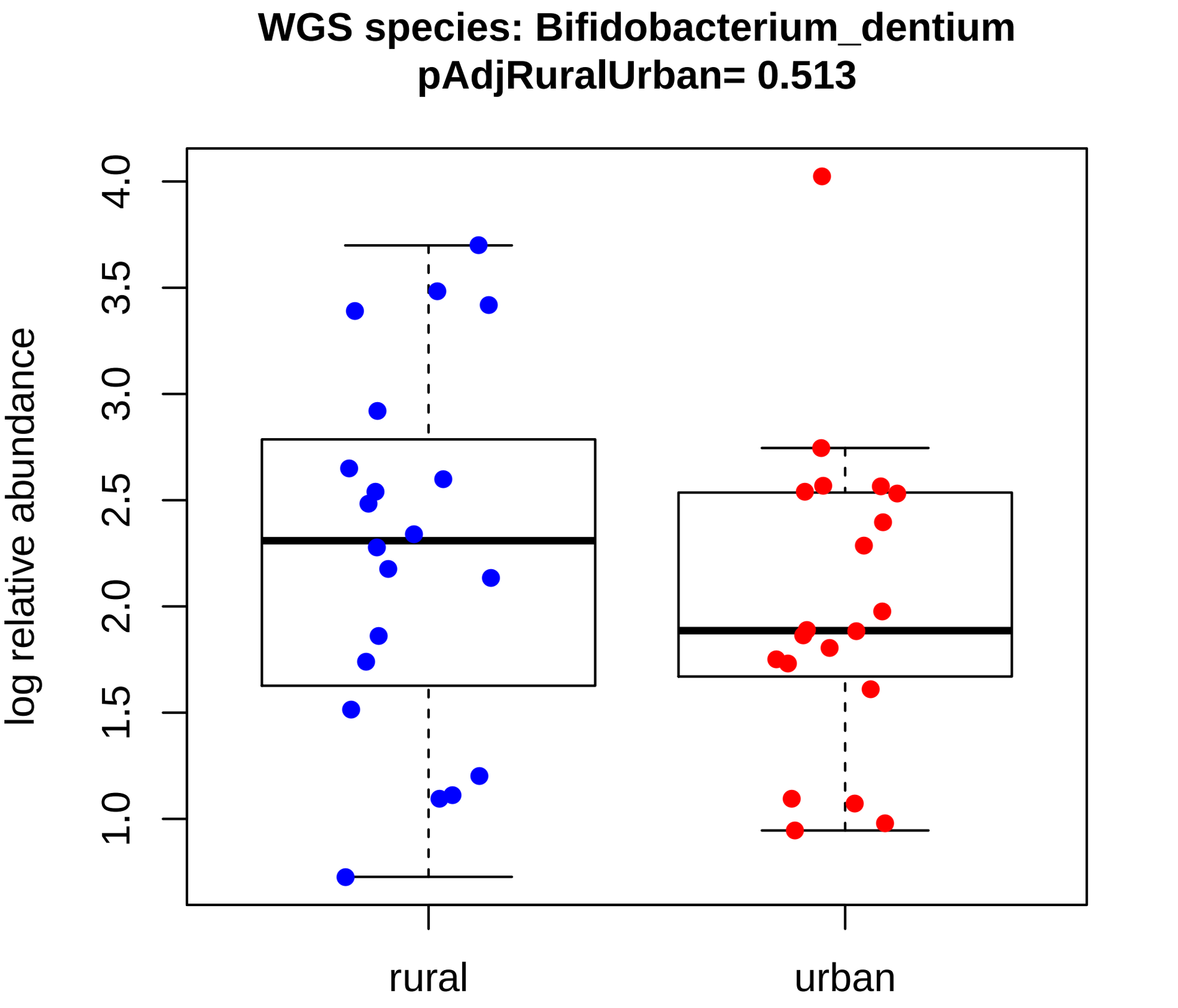

WGS species: Actinobacillus_pleuropneumoniae
pAdjRuralUrban= 0.497
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

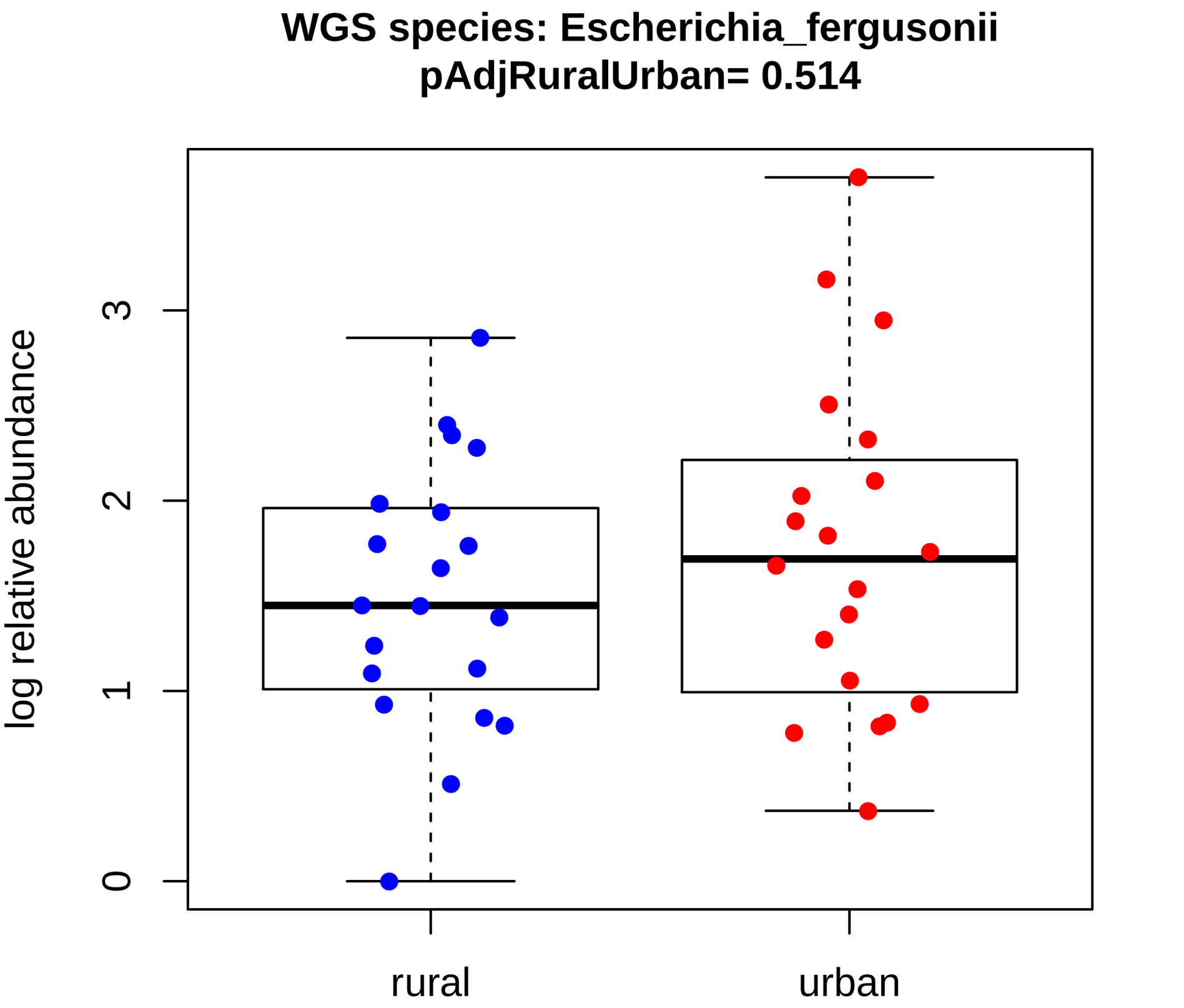

WGS species: Listeria_monocytogenes
pAdjRuralUrban= 0.499
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

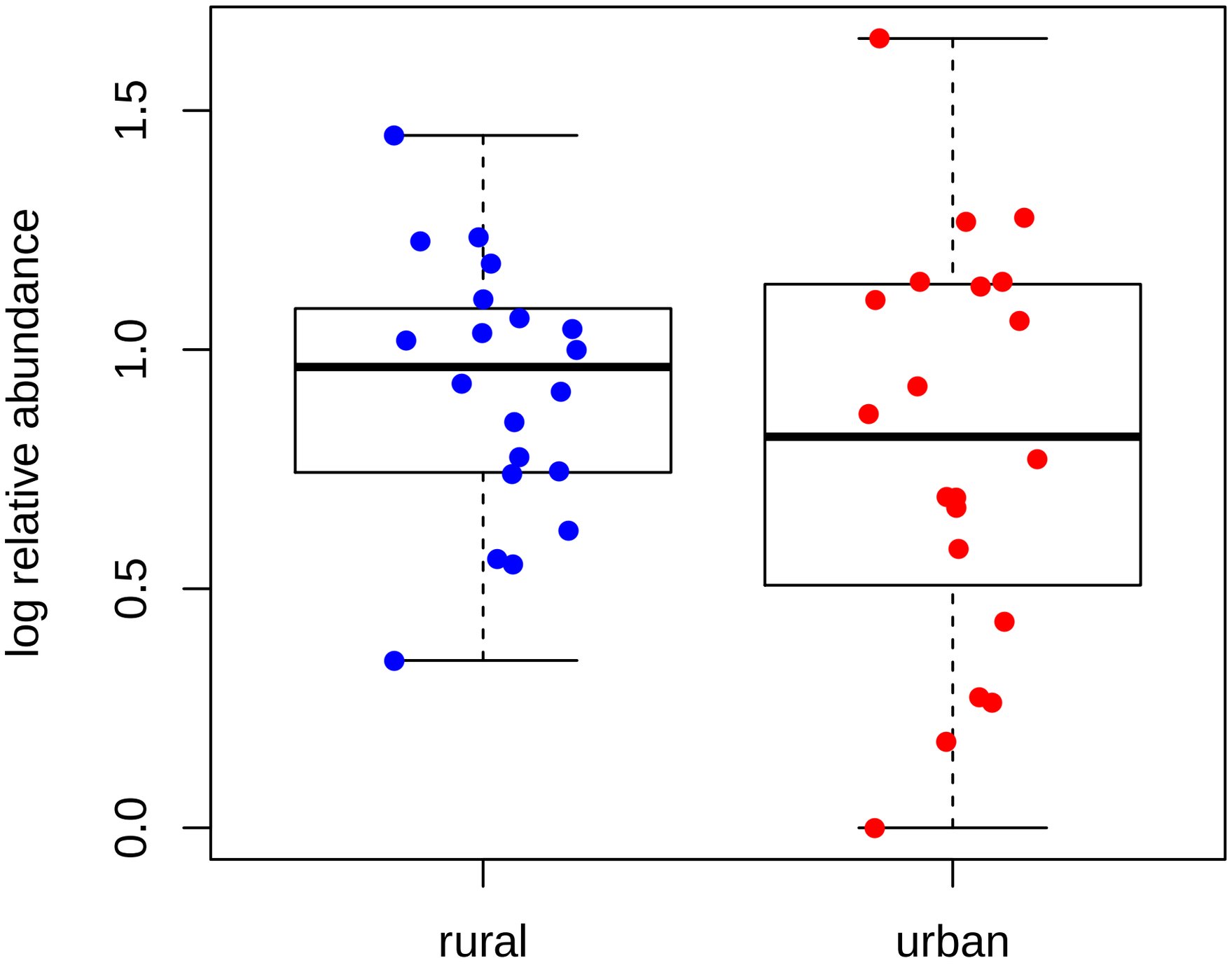

WGS species: Flavobacterium_psychrophilum
pAdjRuralUrban= 0.5
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

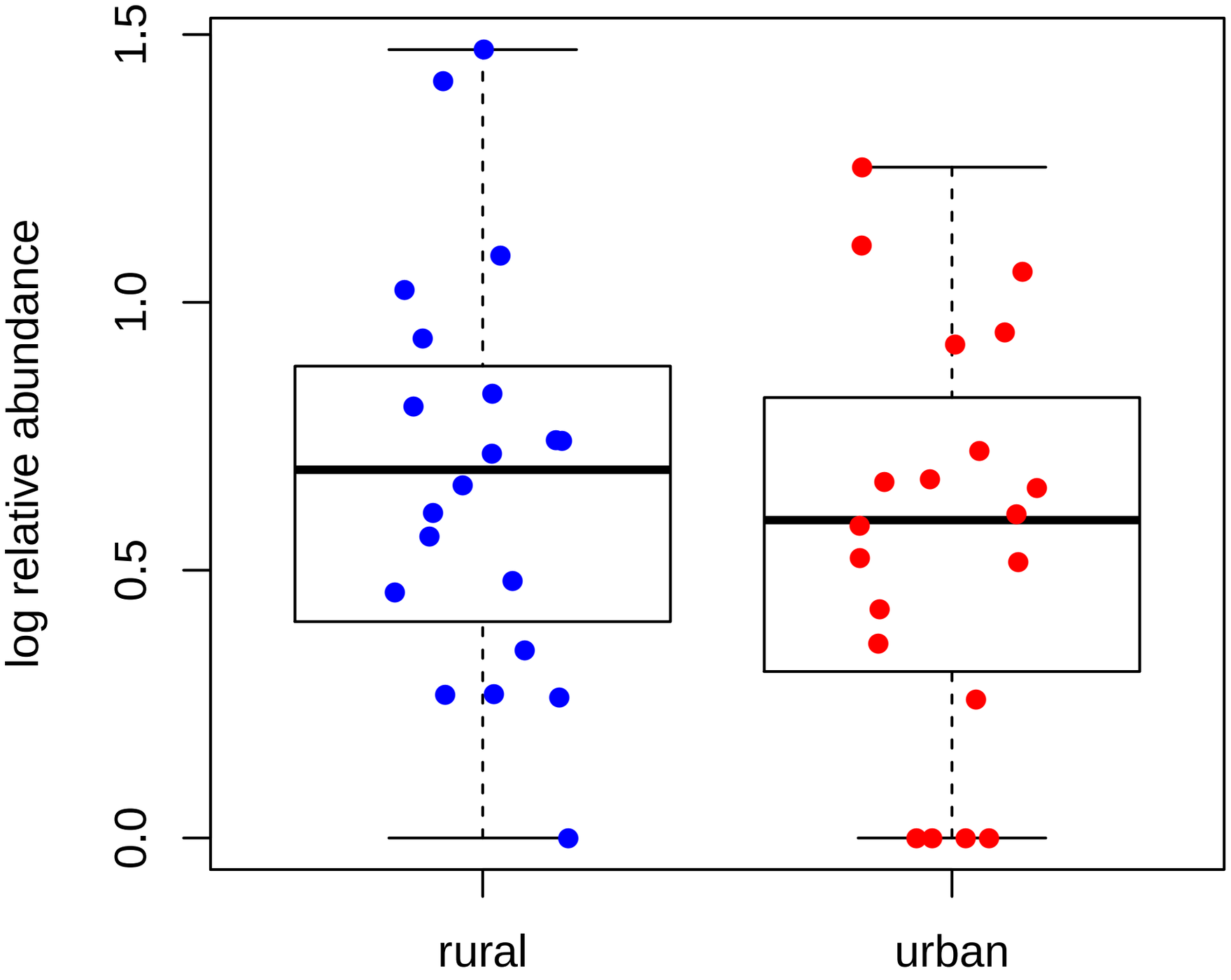

WGS species: Candidatus_Phytoplasma_australiense
pAdjRuralUrban= 0.502
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

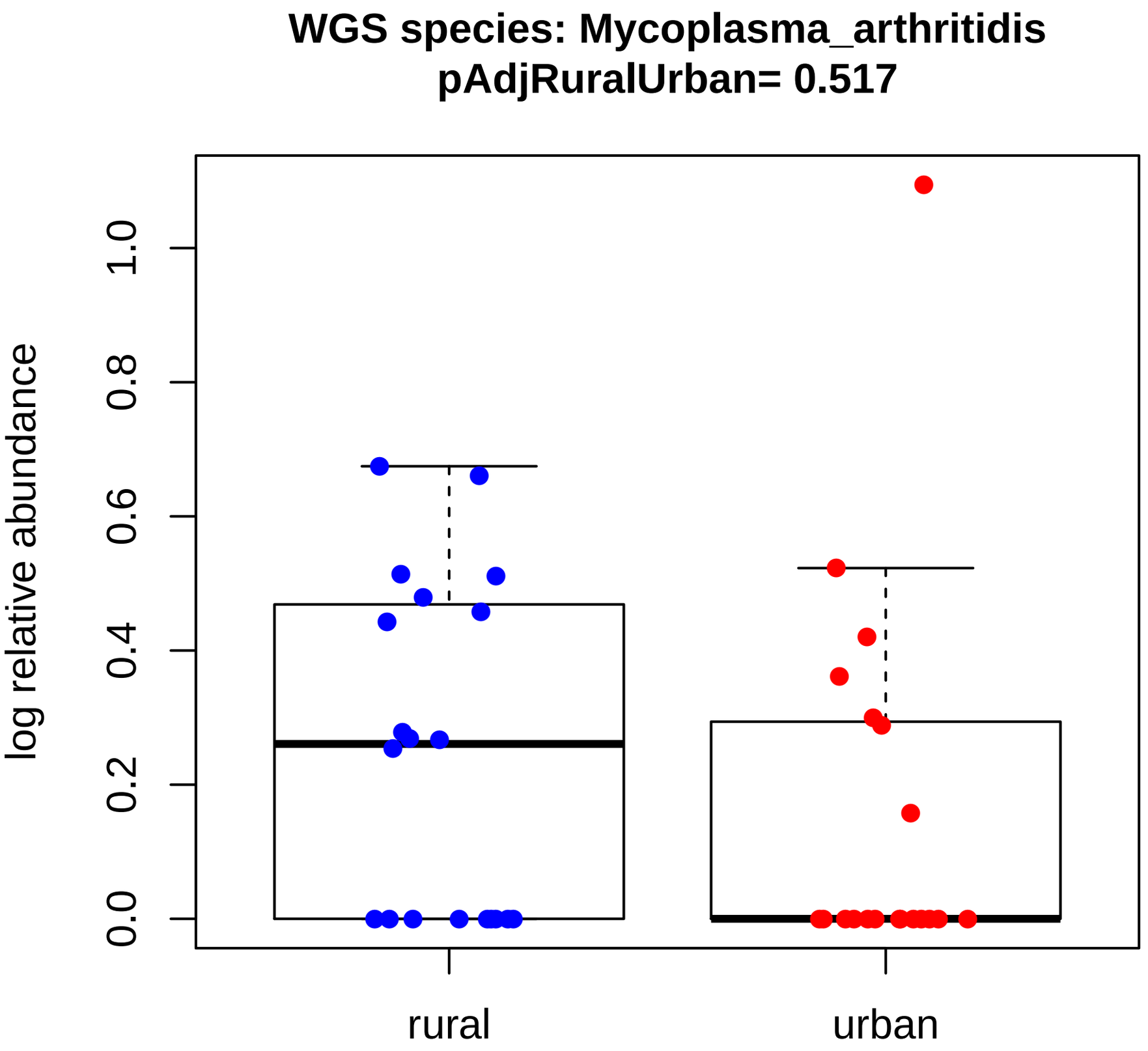

WGS species: Polynucleobacter_necessarius
pAdjRuralUrban= 0.506
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

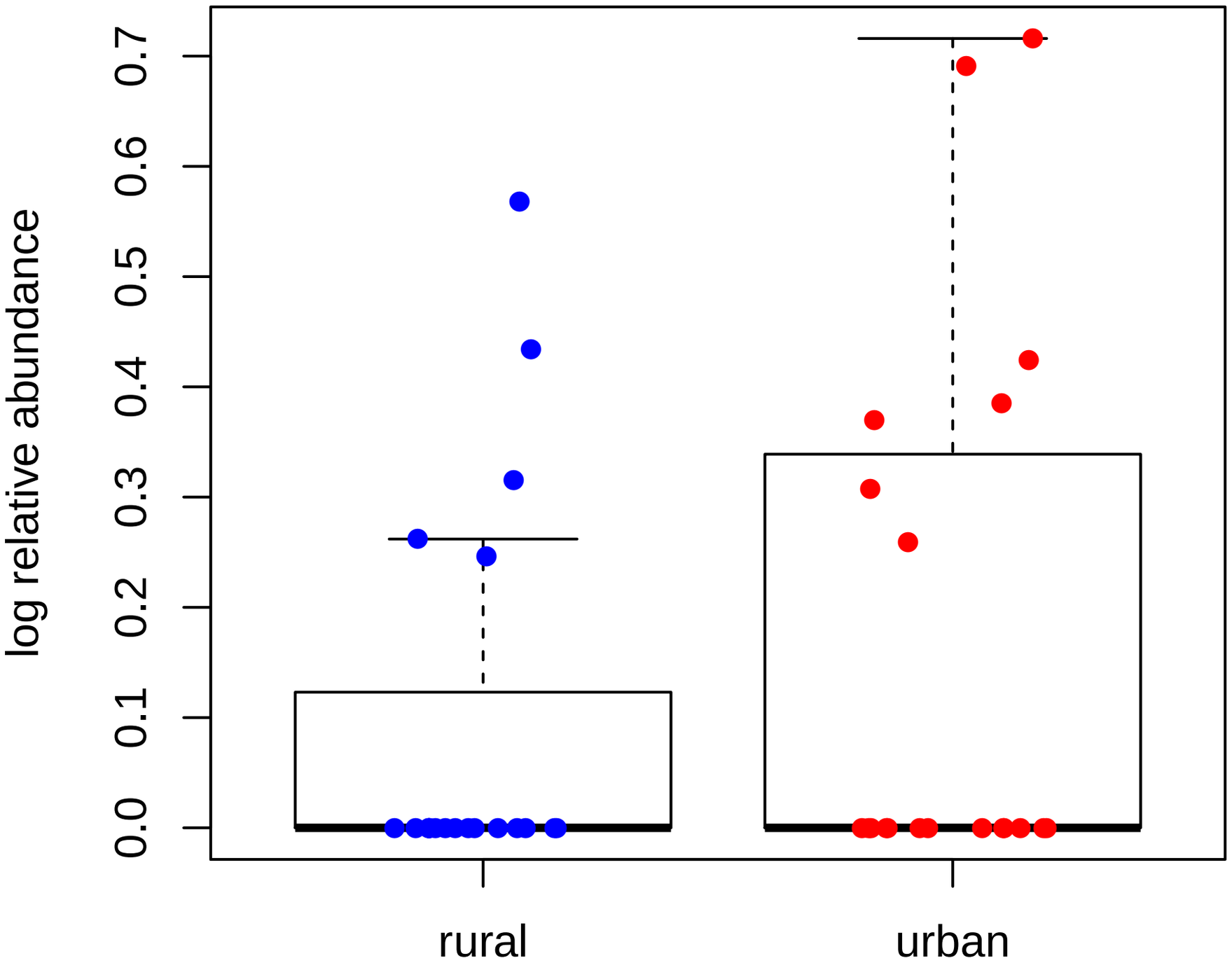

WGS species: Bifidobacterium_dentium
pAdjRuralUrban= 0.513
log relative abundance
1.0
1.5
2.0
2.5
3.0
3.5
4.0
rural
urban

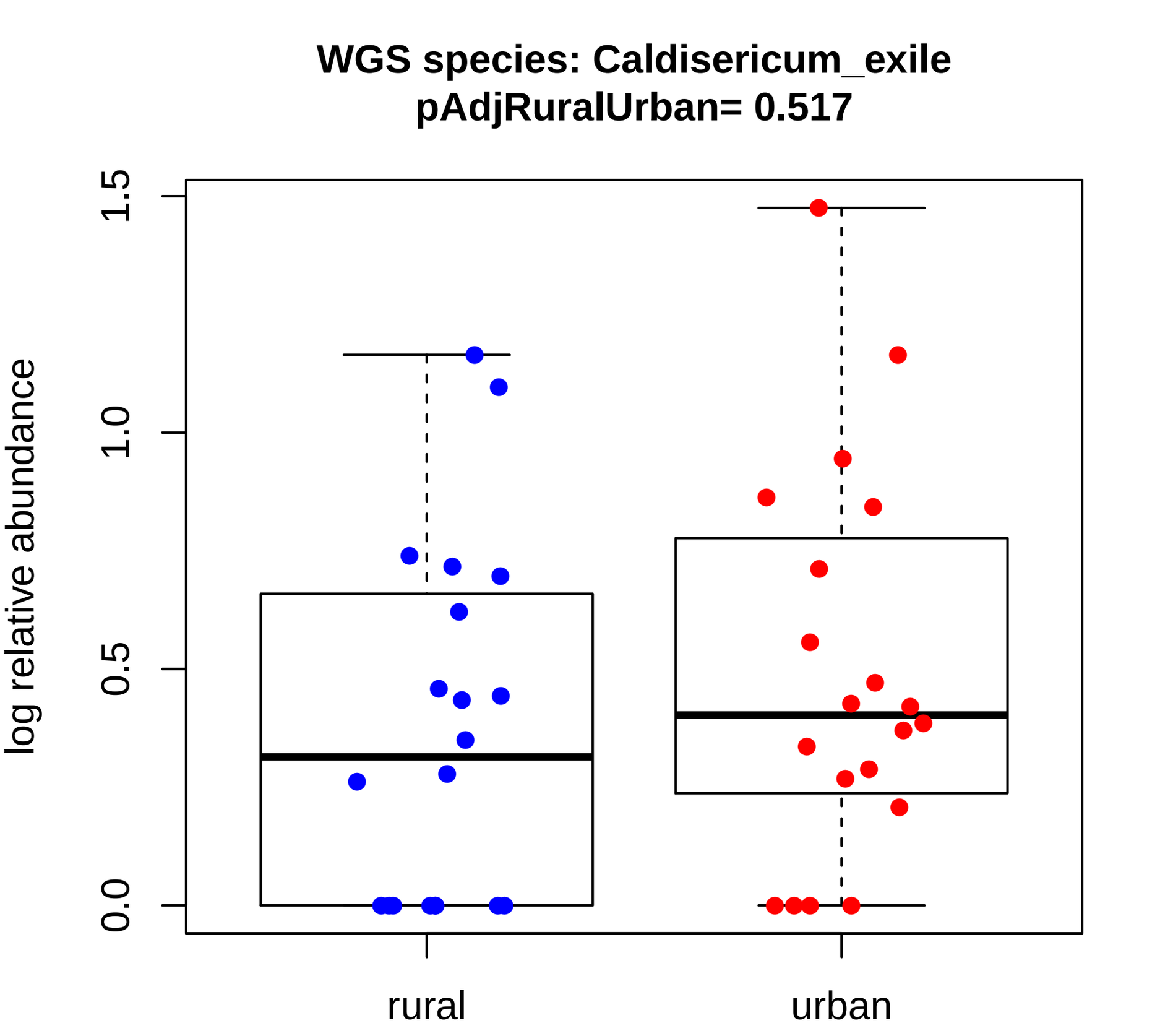

WGS species: Escherichia_fergusonii
pAdjRuralUrban= 0.514
log relative abundance
0
1
2
3
rural
urban

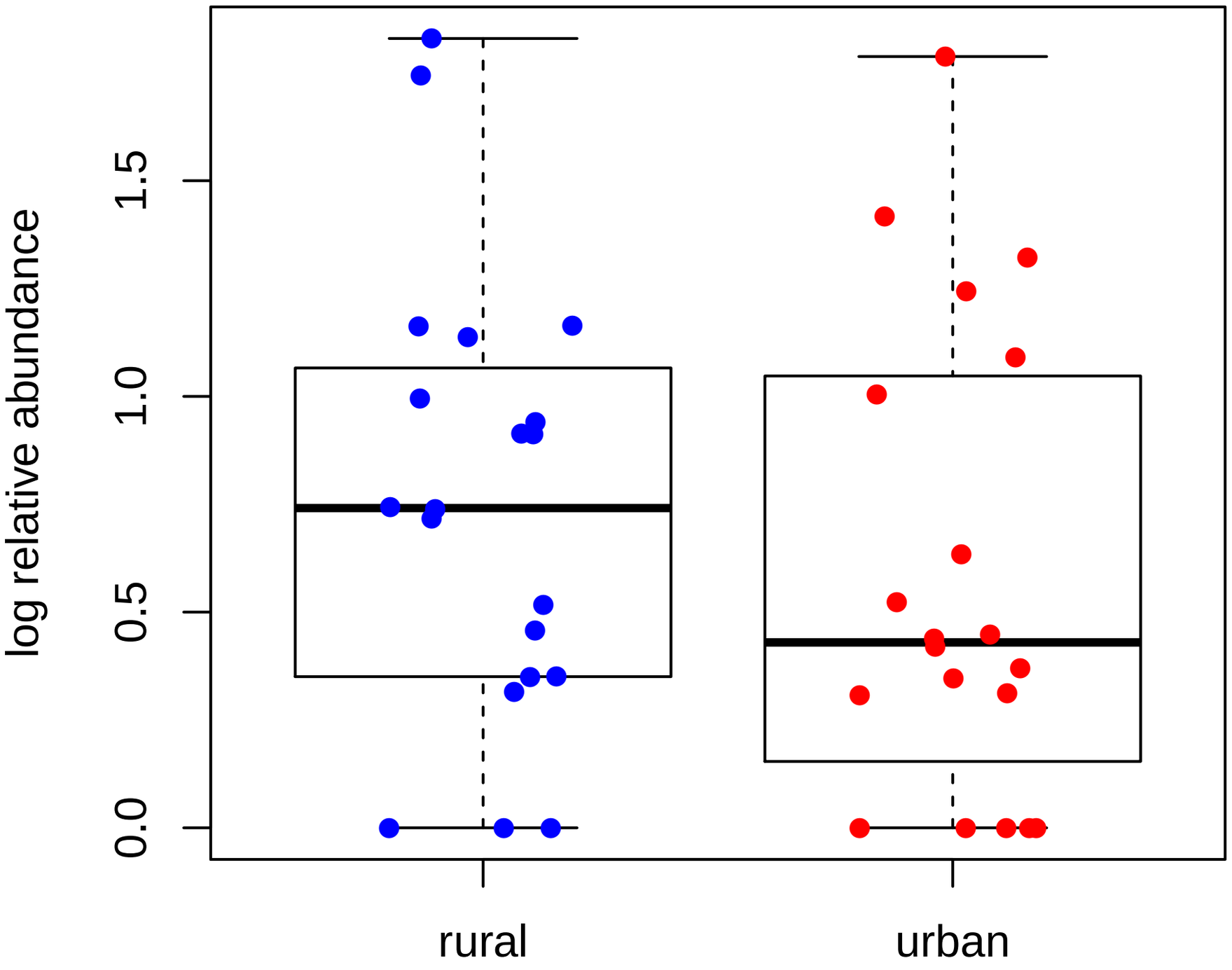

WGS species: Treponema_brennaborense
pAdjRuralUrban= 0.515
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

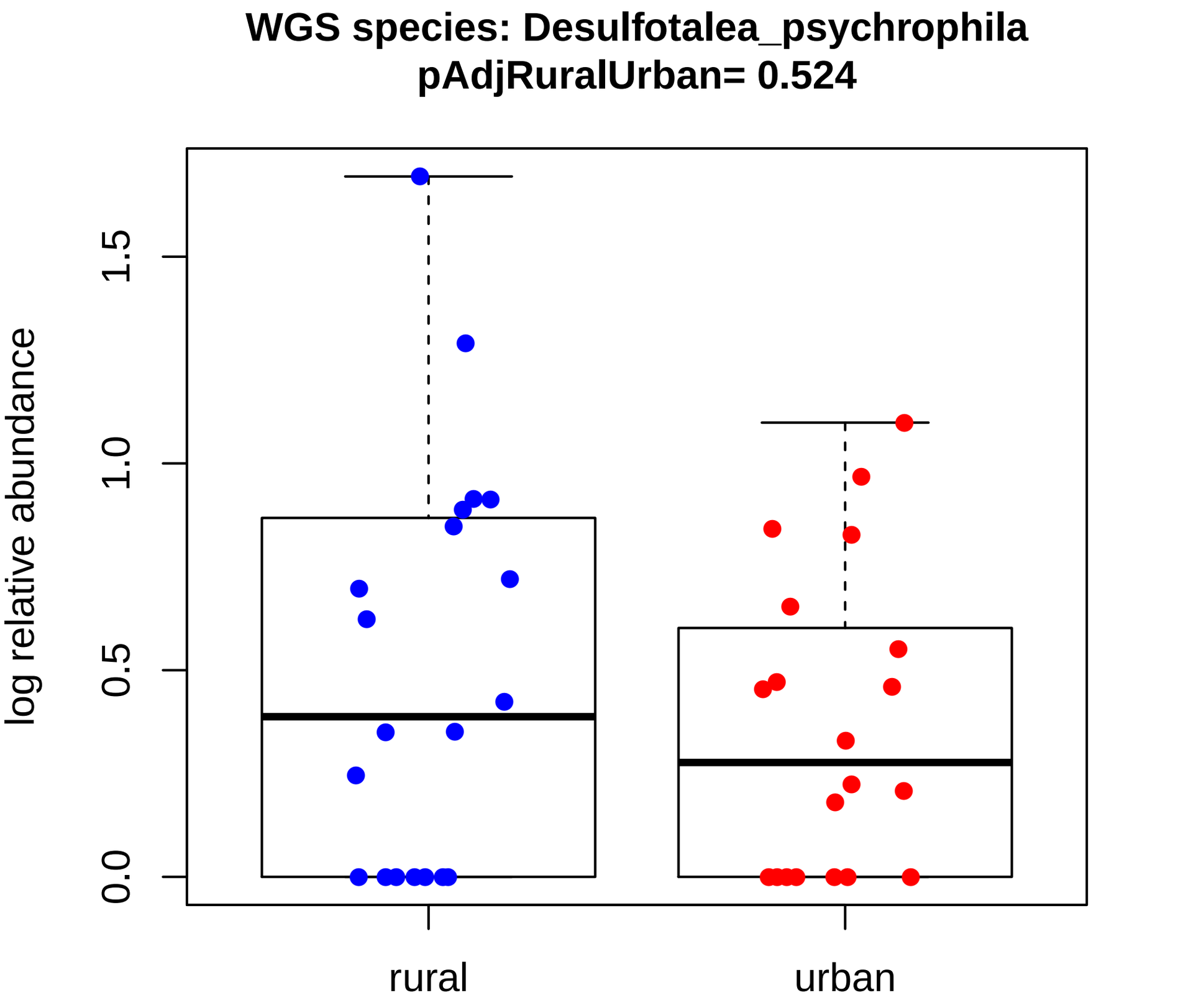

WGS species: Agrobacterium_vitis
pAdjRuralUrban= 0.515
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

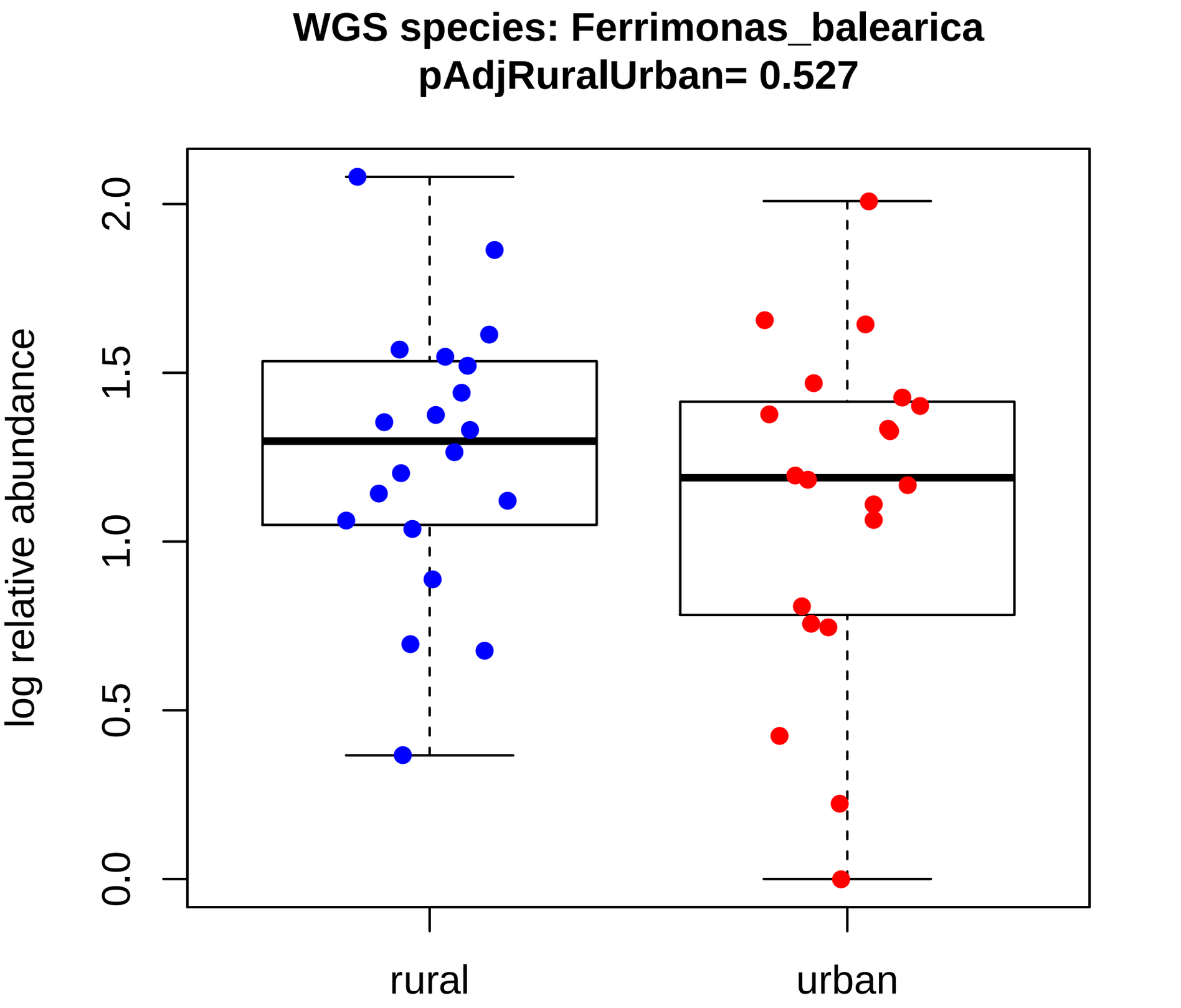

WGS species: Mycoplasma_arthritidis
pAdjRuralUrban= 0.517
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

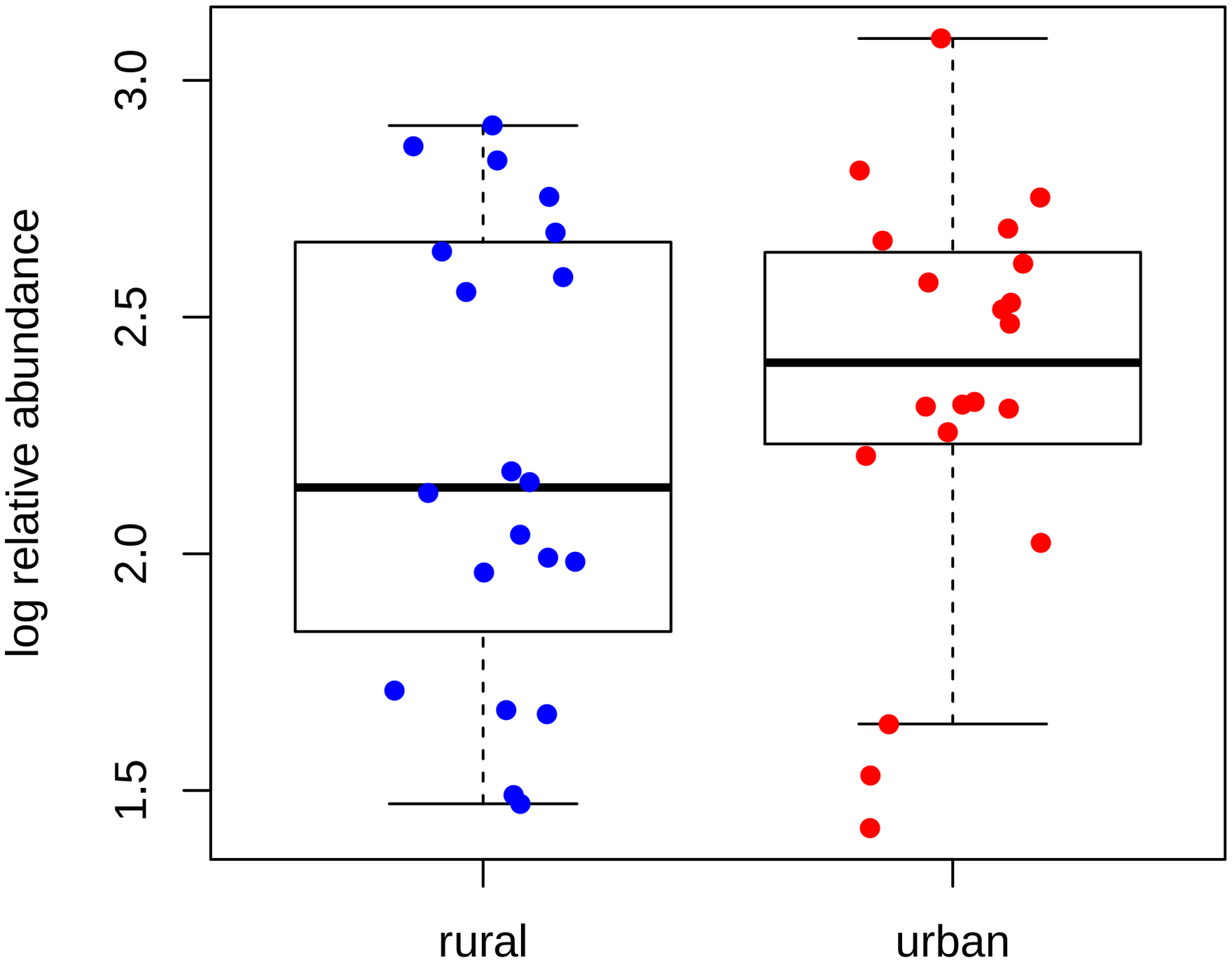

WGS species: Vibrio_tasmaniensis
pAdjRuralUrban= 0.517
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

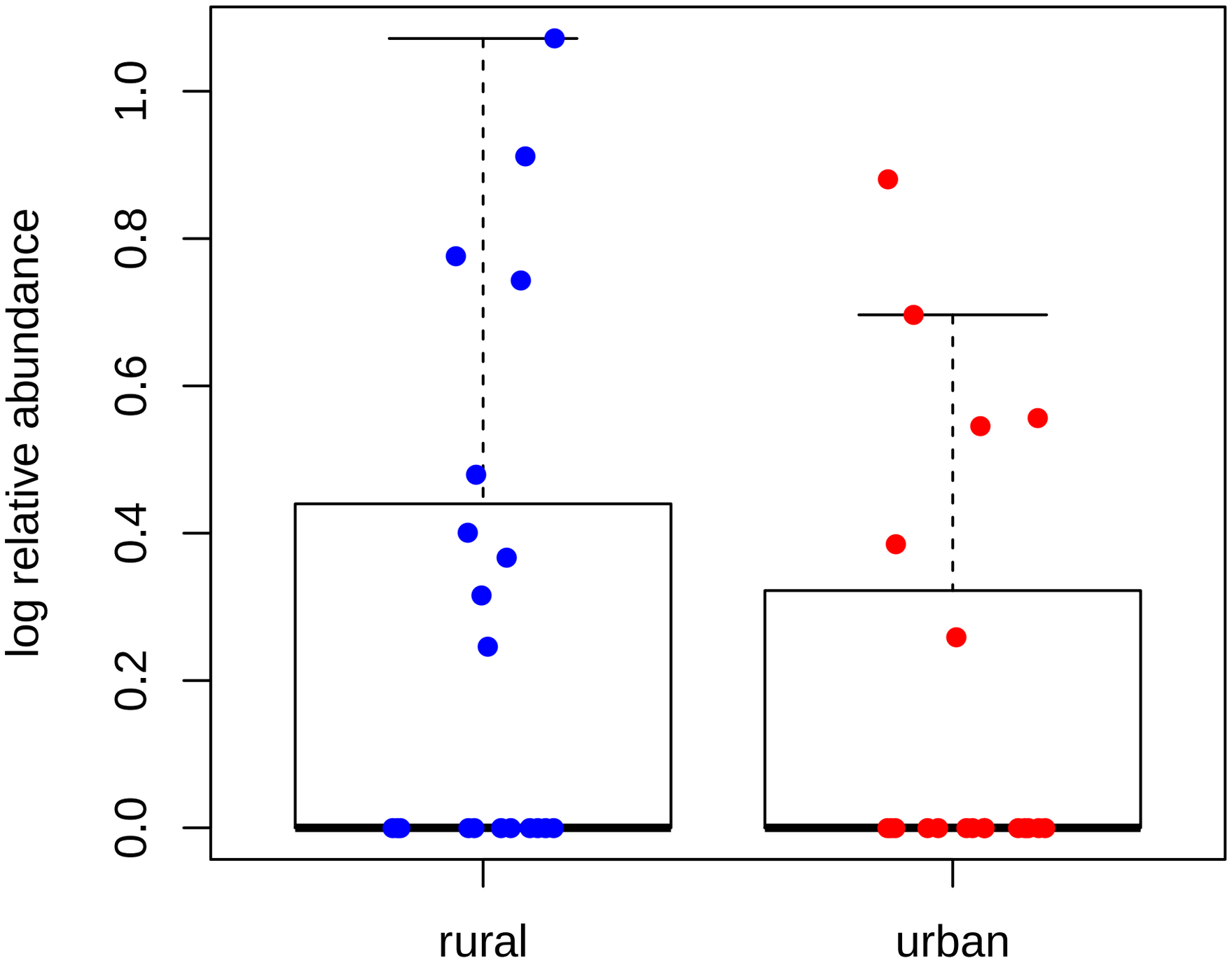

WGS species: Caldisericum_exile
pAdjRuralUrban= 0.517
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

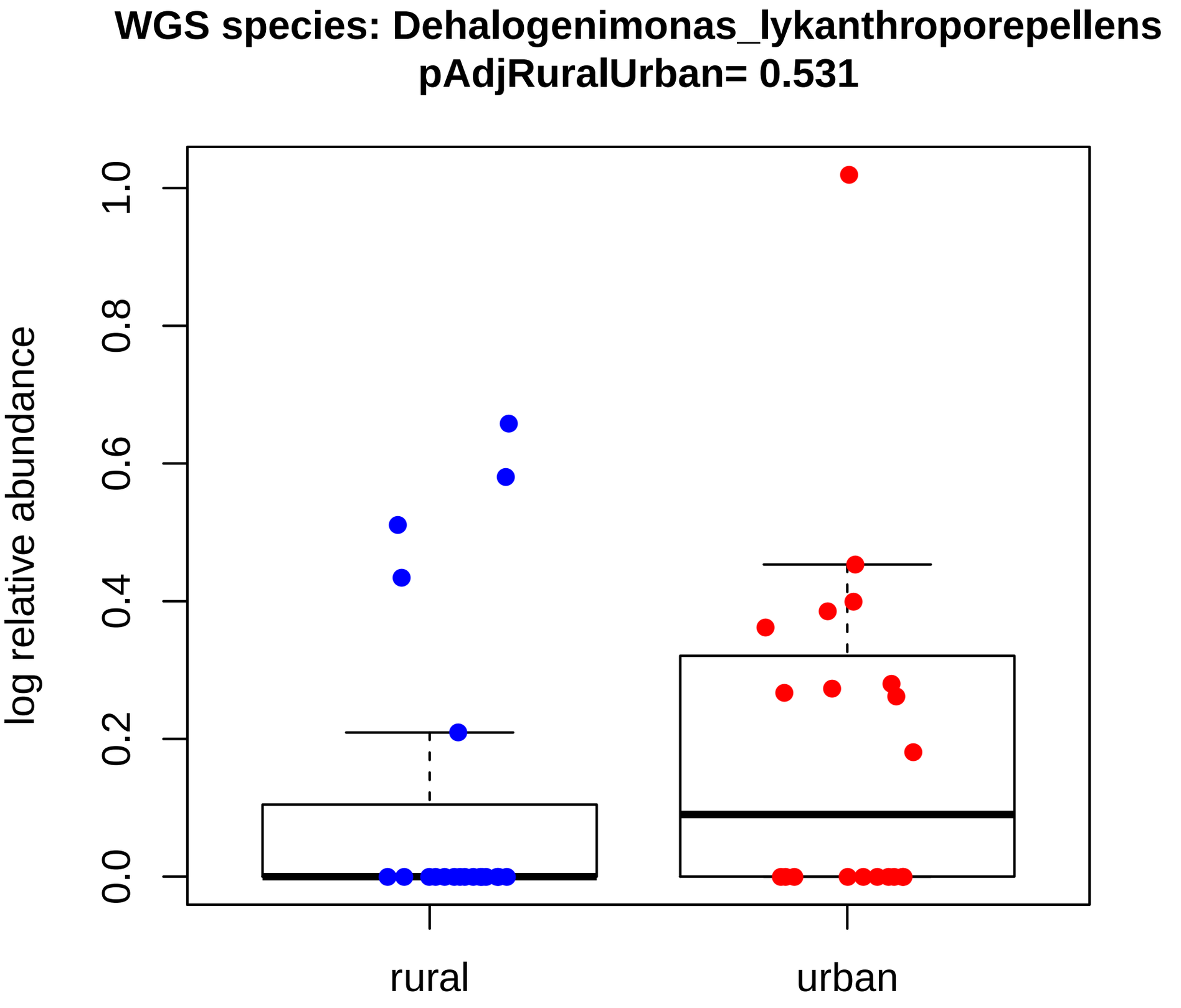

WGS species: Halothiobacillus_neapolitanus
pAdjRuralUrban= 0.521
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

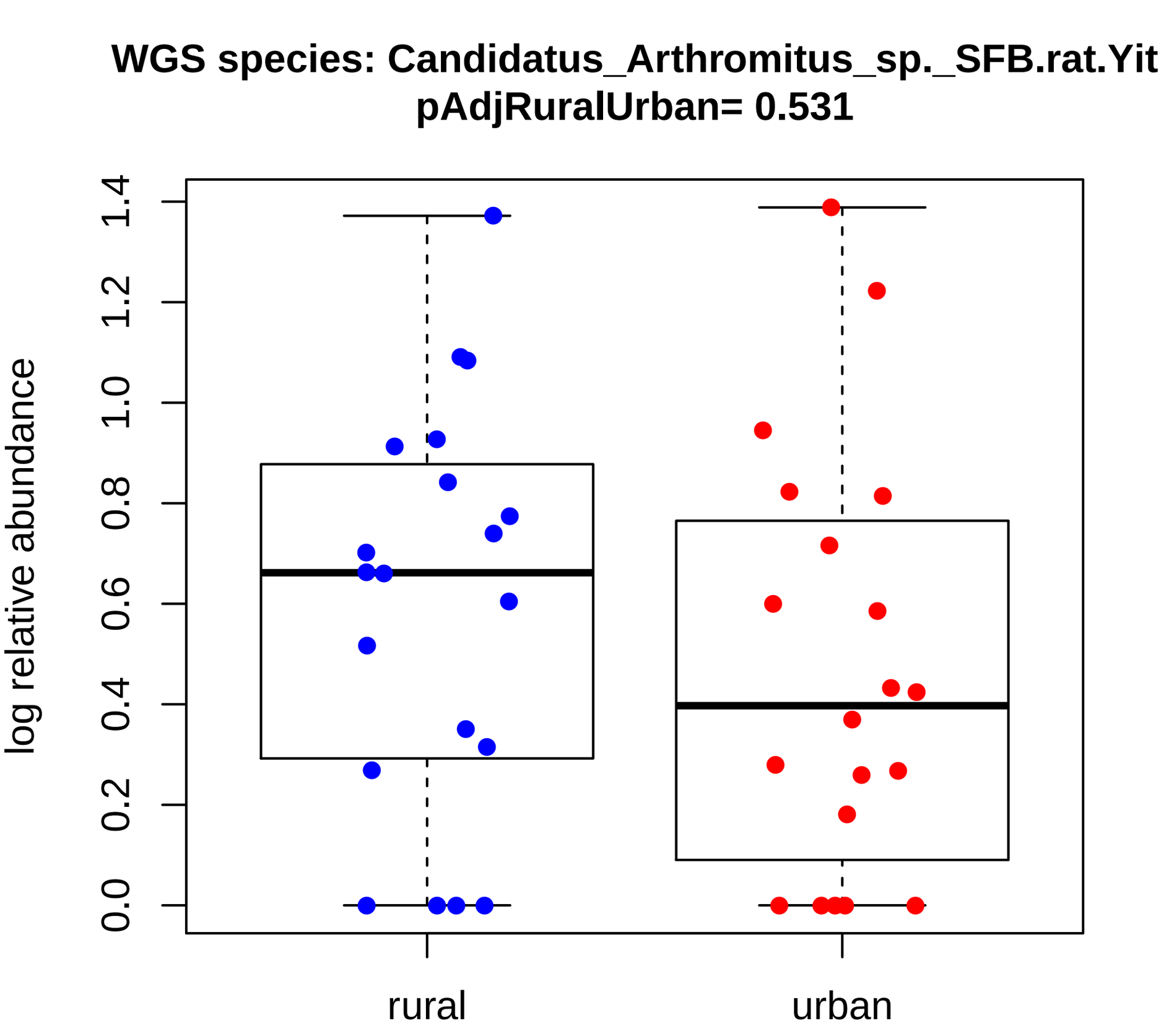

WGS species: Desulfotalea_psychrophila
pAdjRuralUrban= 0.524
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

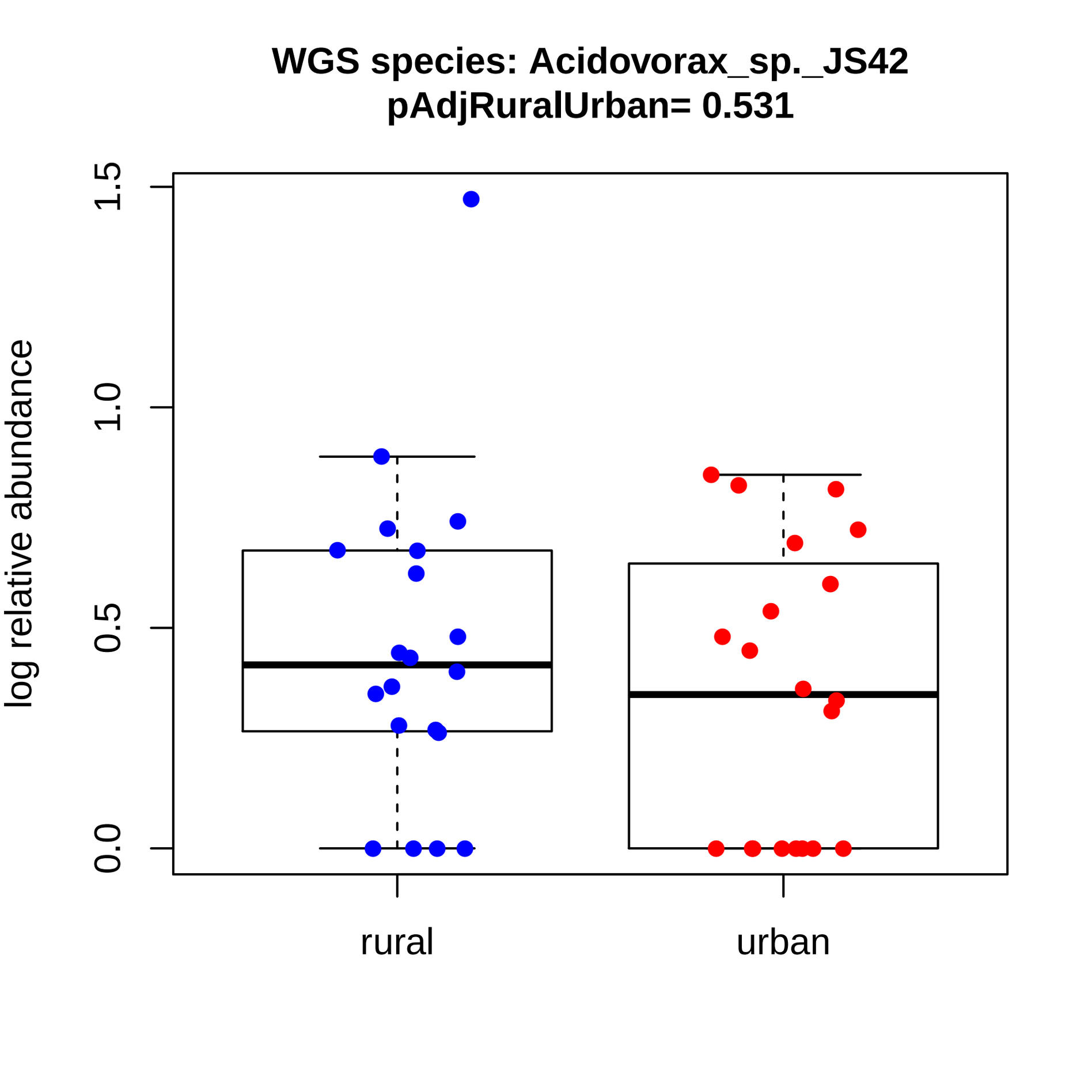

WGS species: Ferrimonas_balearica
pAdjRuralUrban= 0.527
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

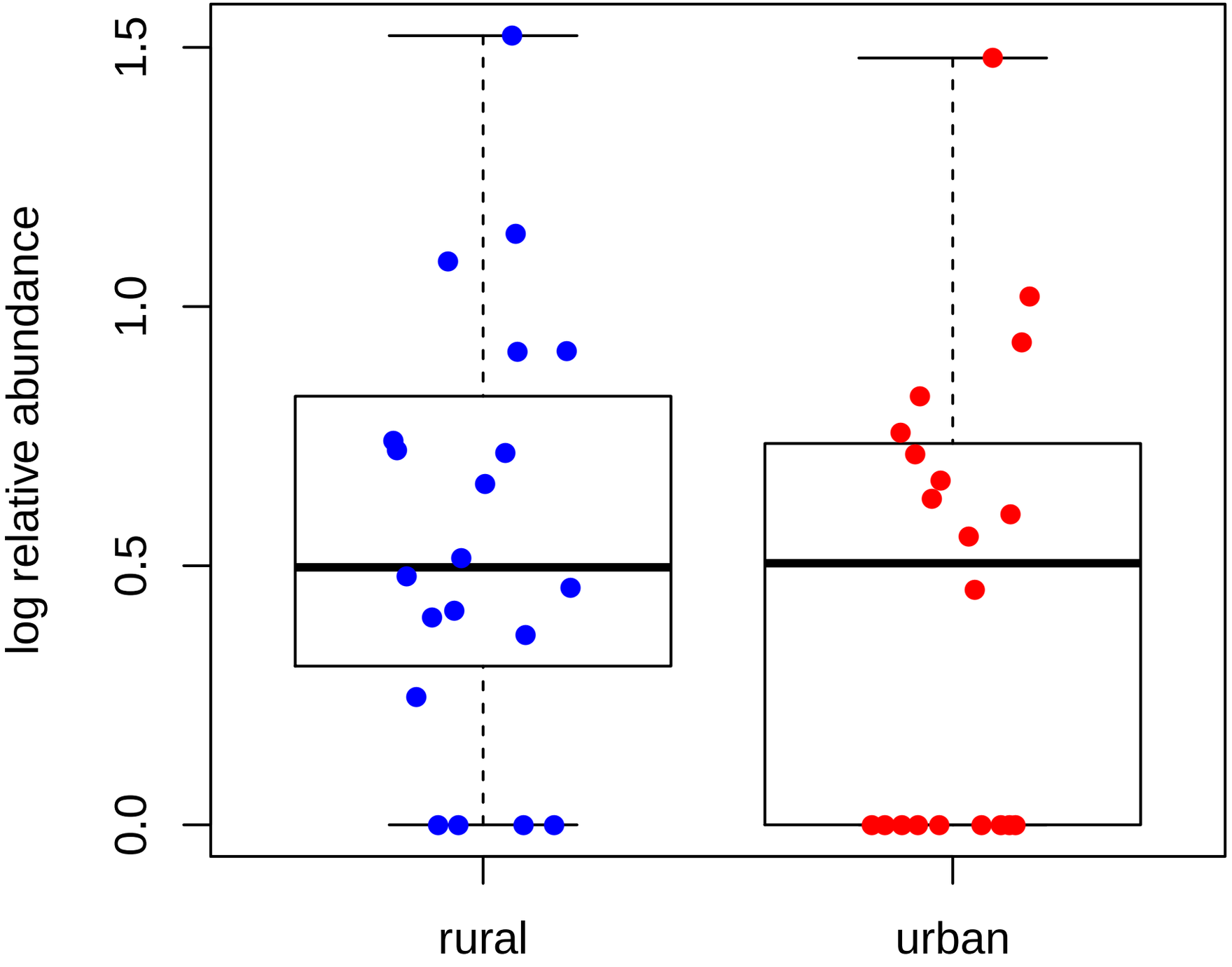

WGS species: Campylobacter_jejuni
pAdjRuralUrban= 0.528
log relative abundance
3.0
2.5
2.0
1.5
rural
urban

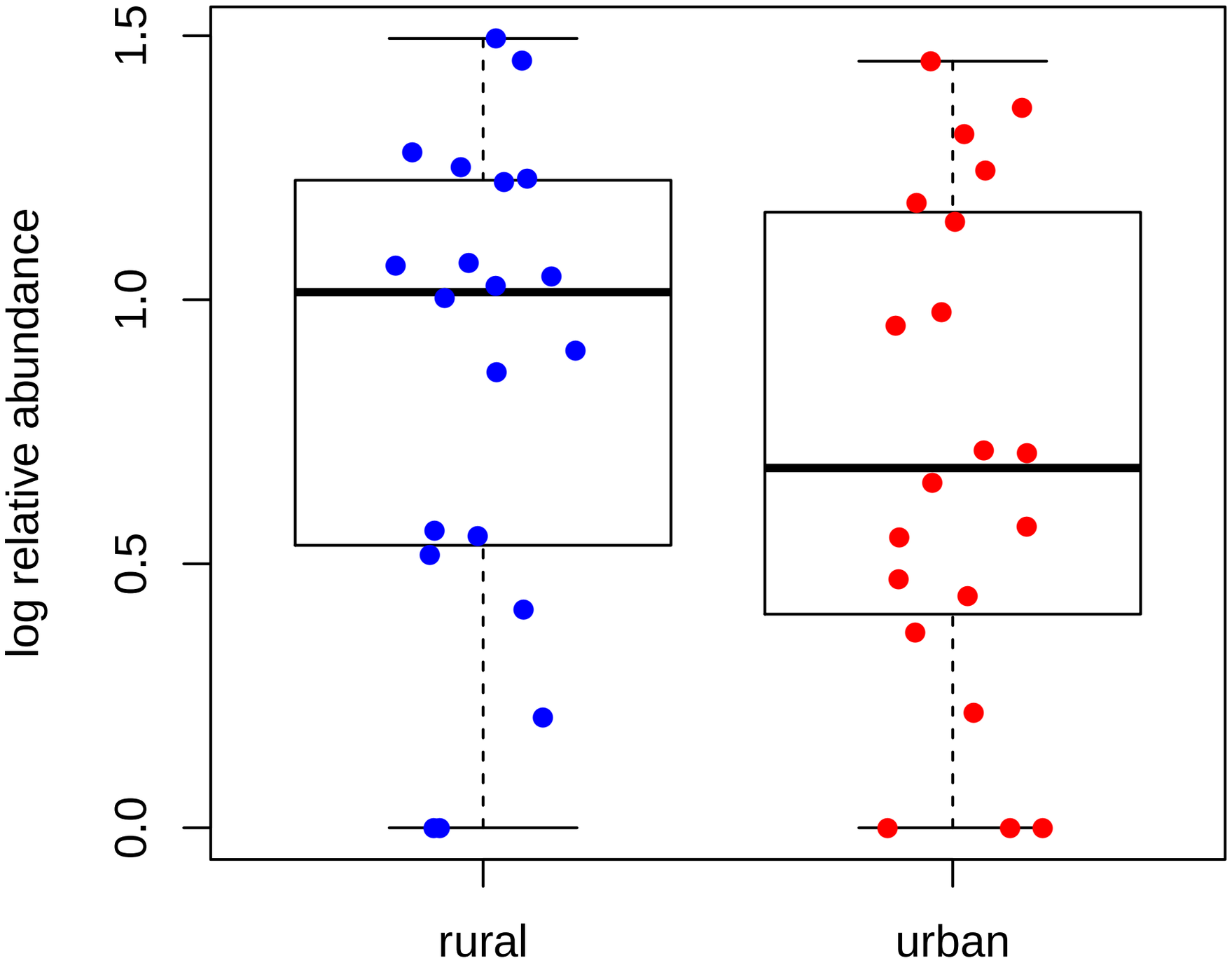

WGS species: Hydrogenobacter_thermophilus
pAdjRuralUrban= 0.528
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

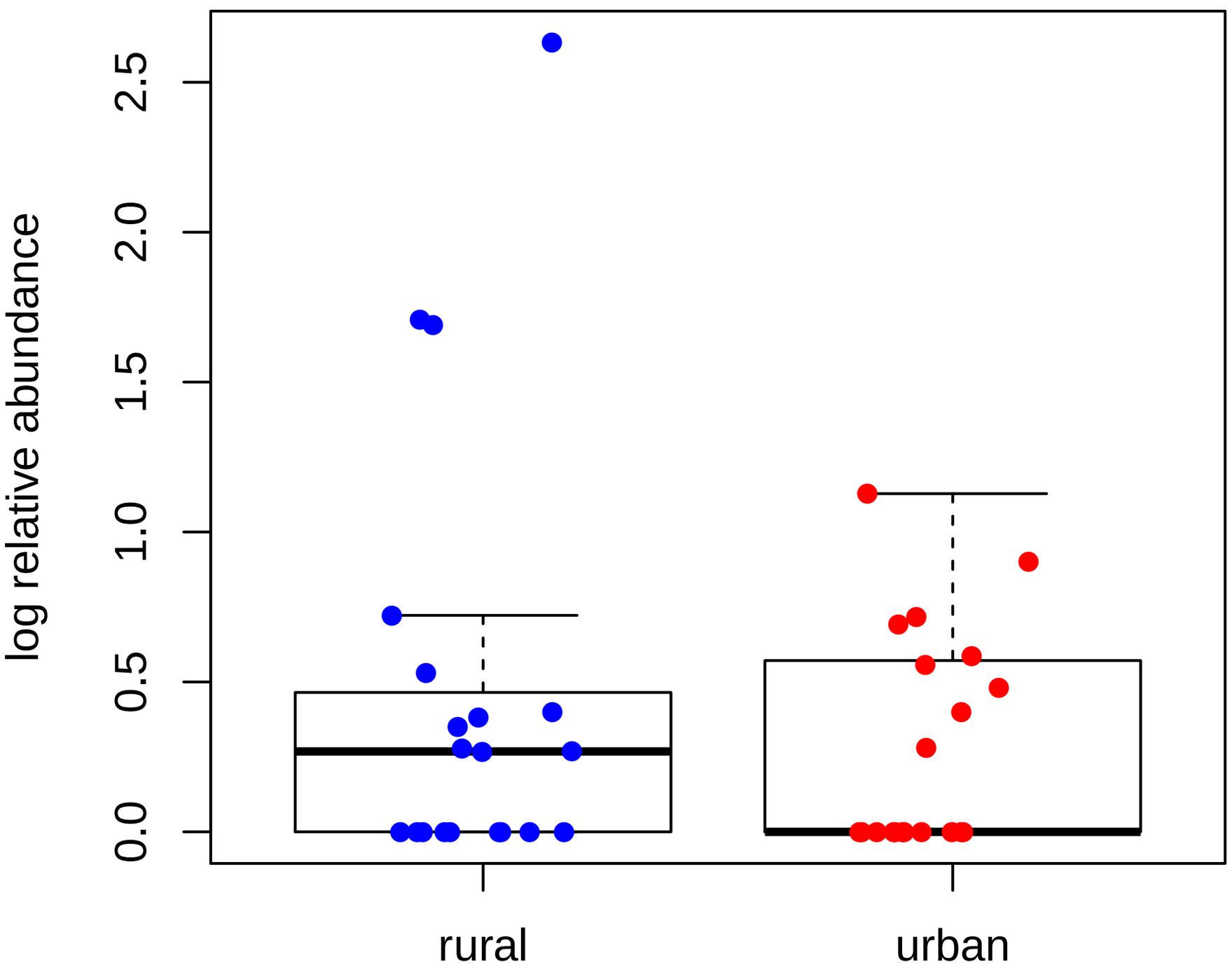

WGS species: Dehalogenimonas_lykanthroporepellens
pAdjRuralUrban= 0.531
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

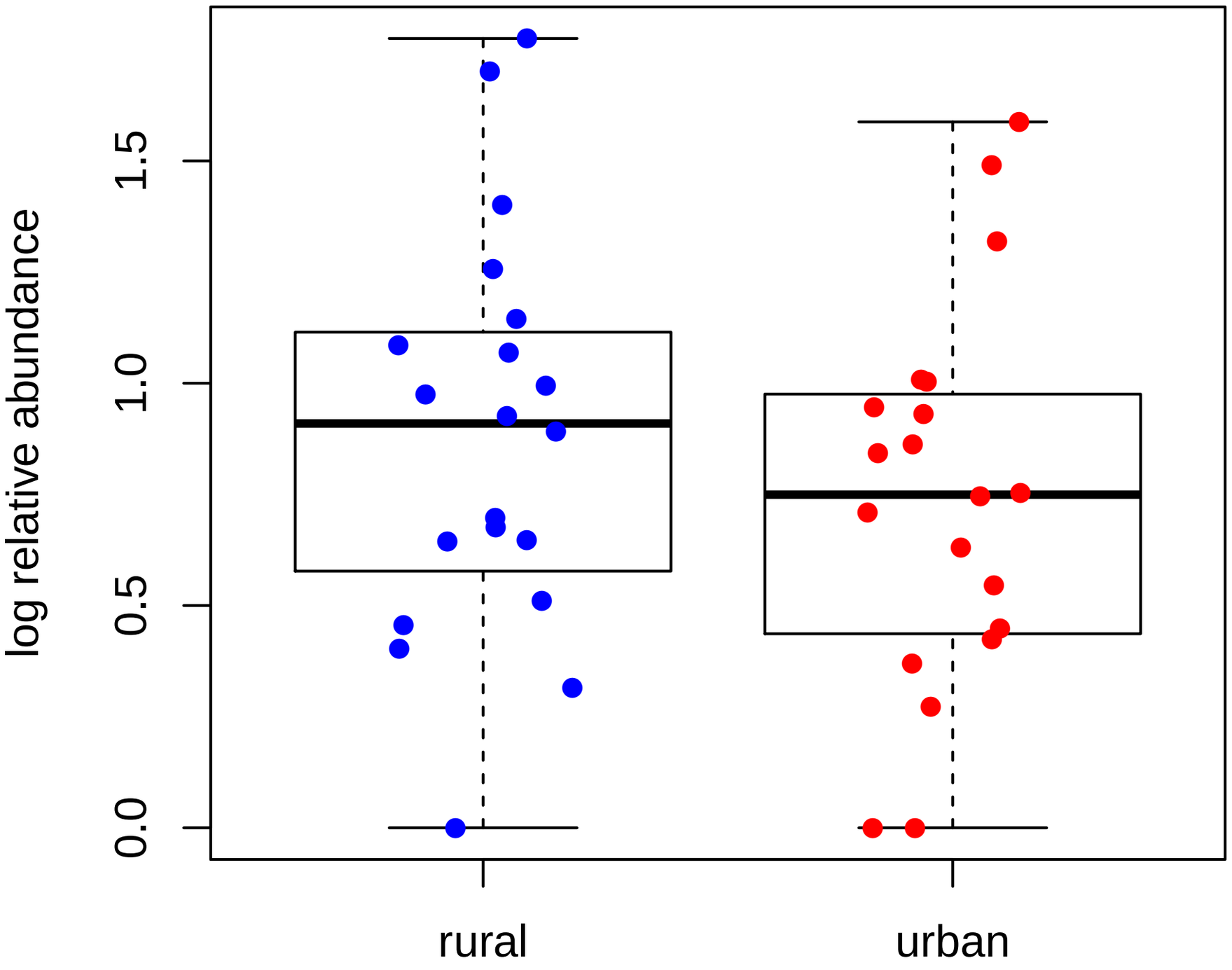

WGS species: Candidatus_Arthromitus_sp._SFB.rat.Yit
pAdjRuralUrban= 0.531
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

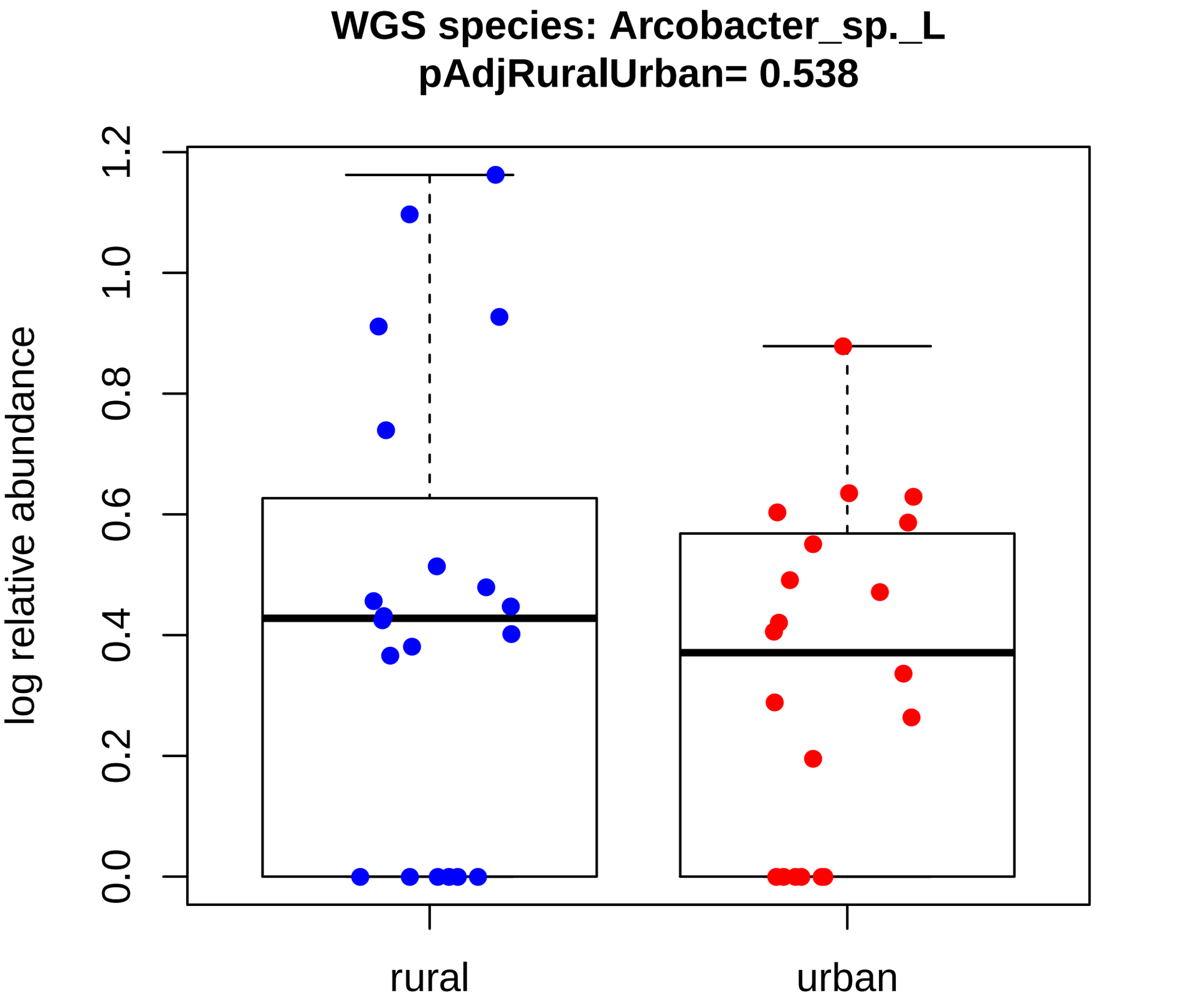

WGS species: Acidovorax_sp._JS42
pAdjRuralUrban= 0.531
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

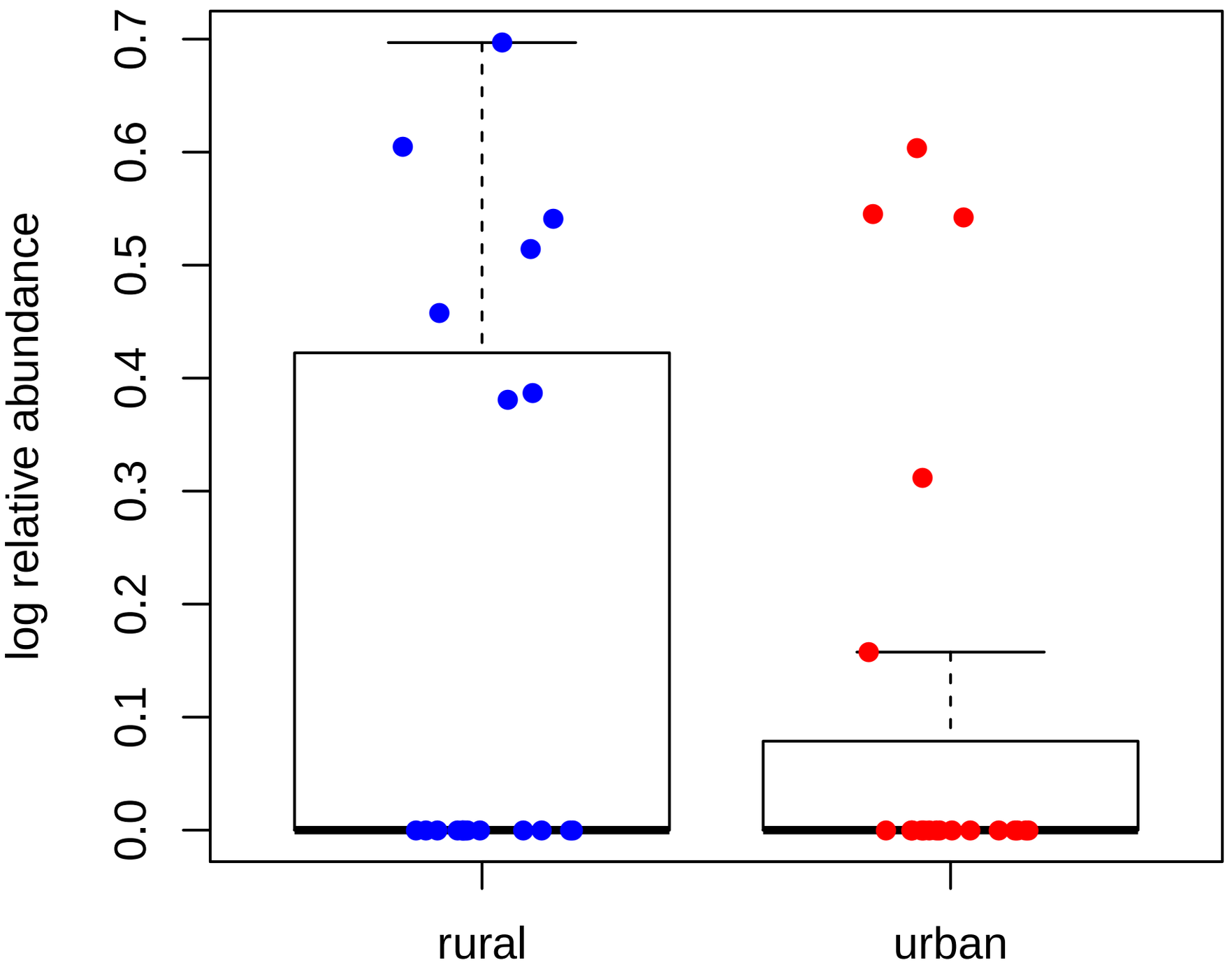

WGS species: Mesorhizobium_australicum
pAdjRuralUrban= 0.531
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

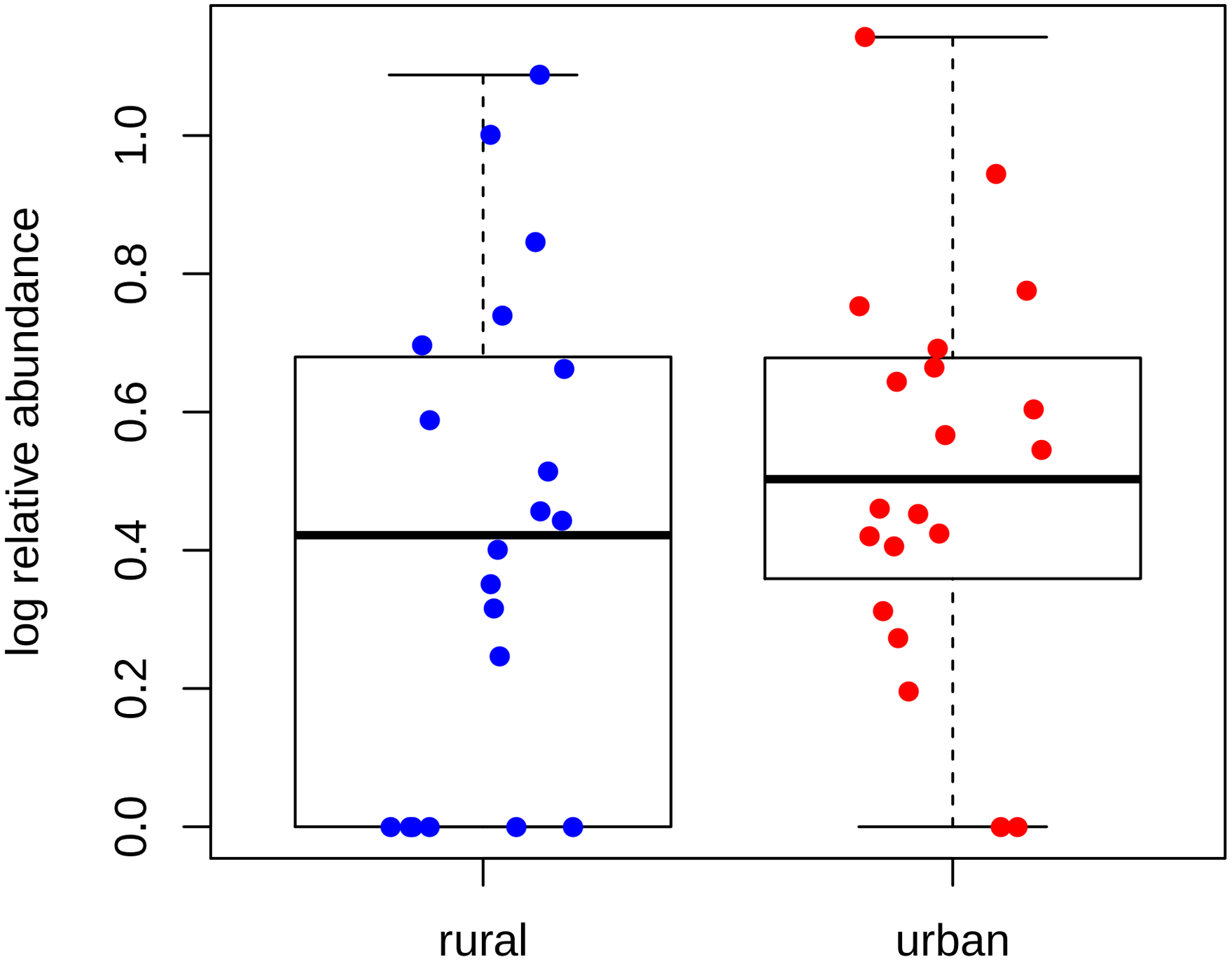

WGS species: Synechococcus_sp._RCC307
pAdjRuralUrban= 0.532
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

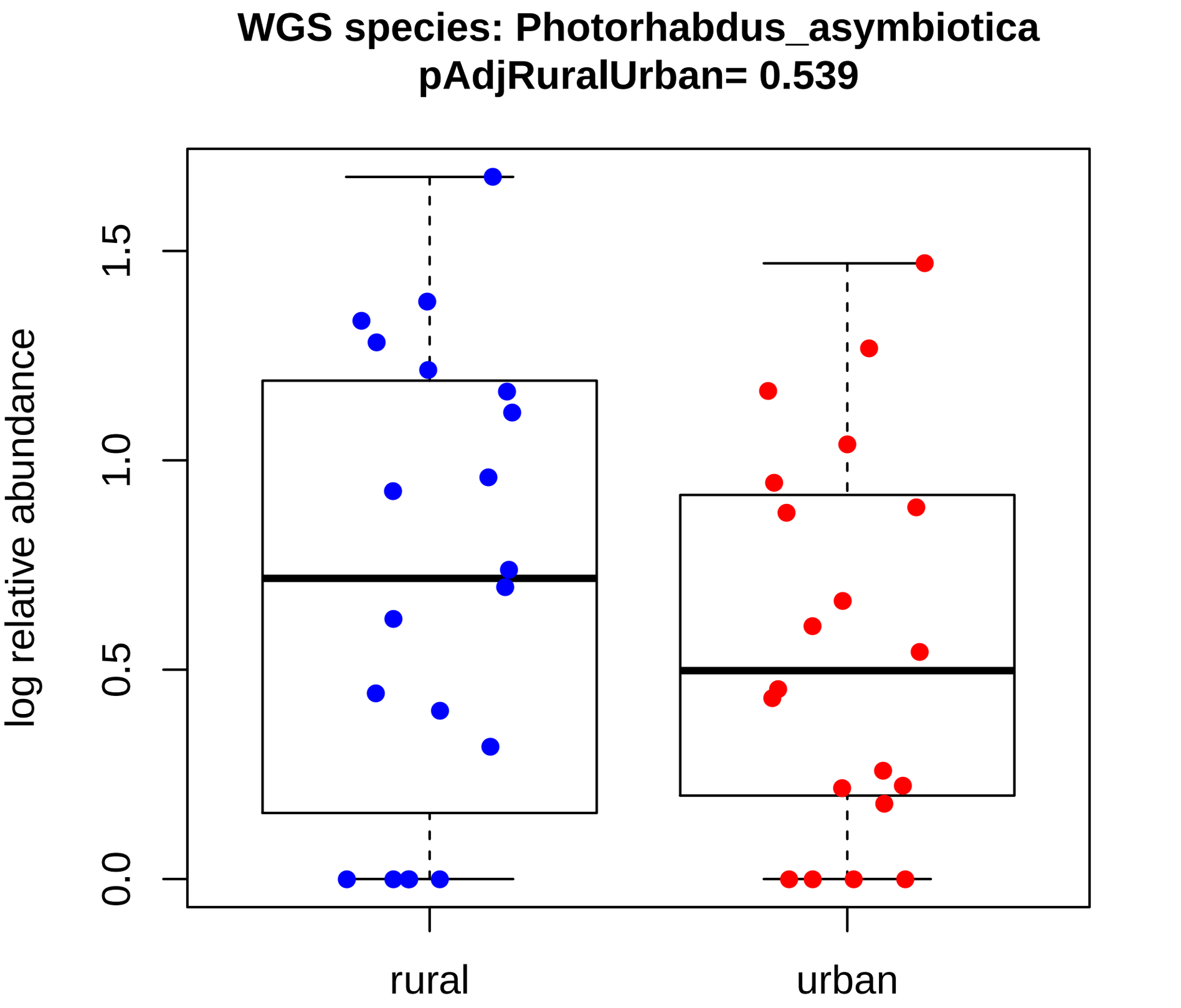

WGS species: Lactobacillus_amylovorus
pAdjRuralUrban= 0.532
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

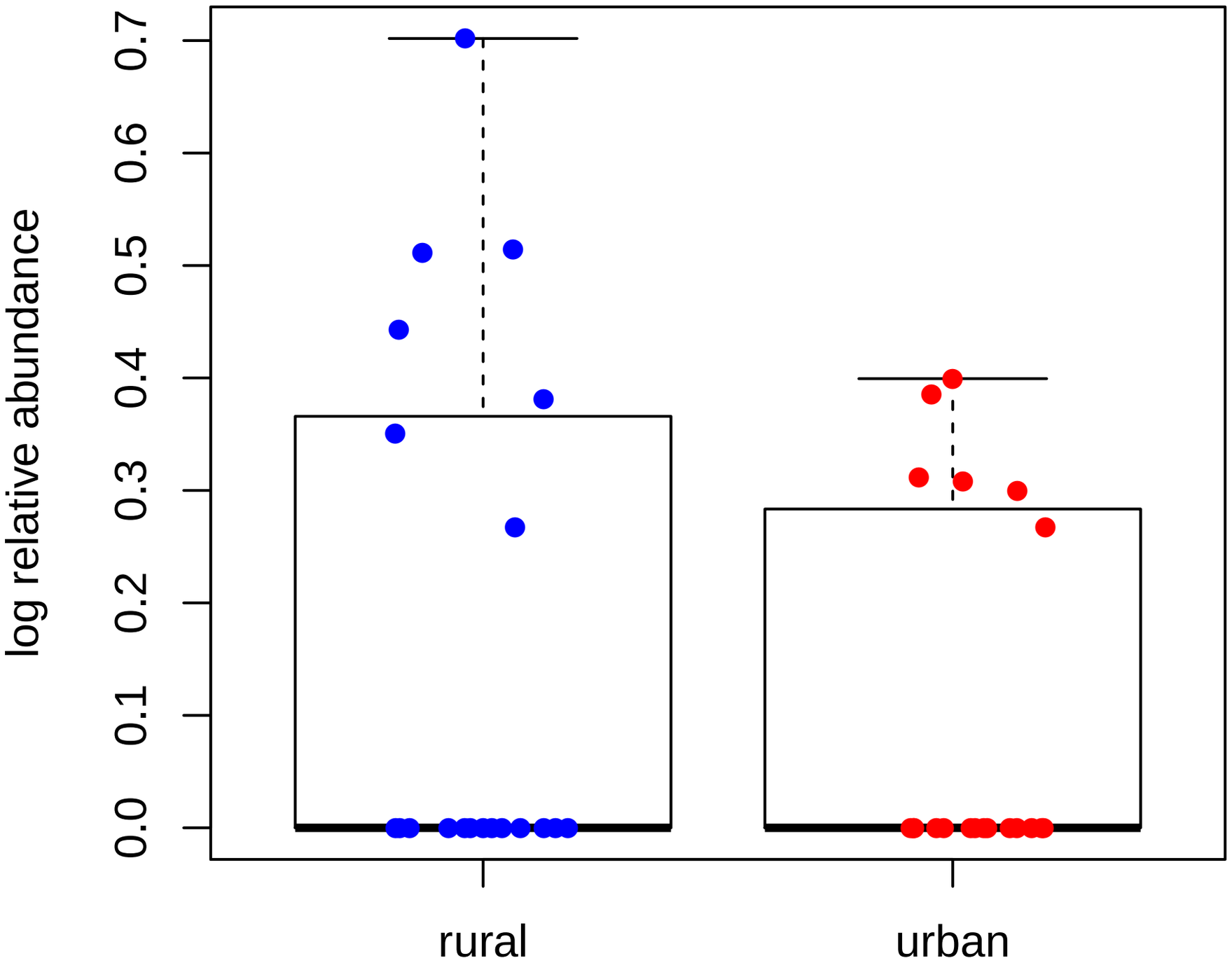

WGS species: Tetragenococcus_halophilus
pAdjRuralUrban= 0.538
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

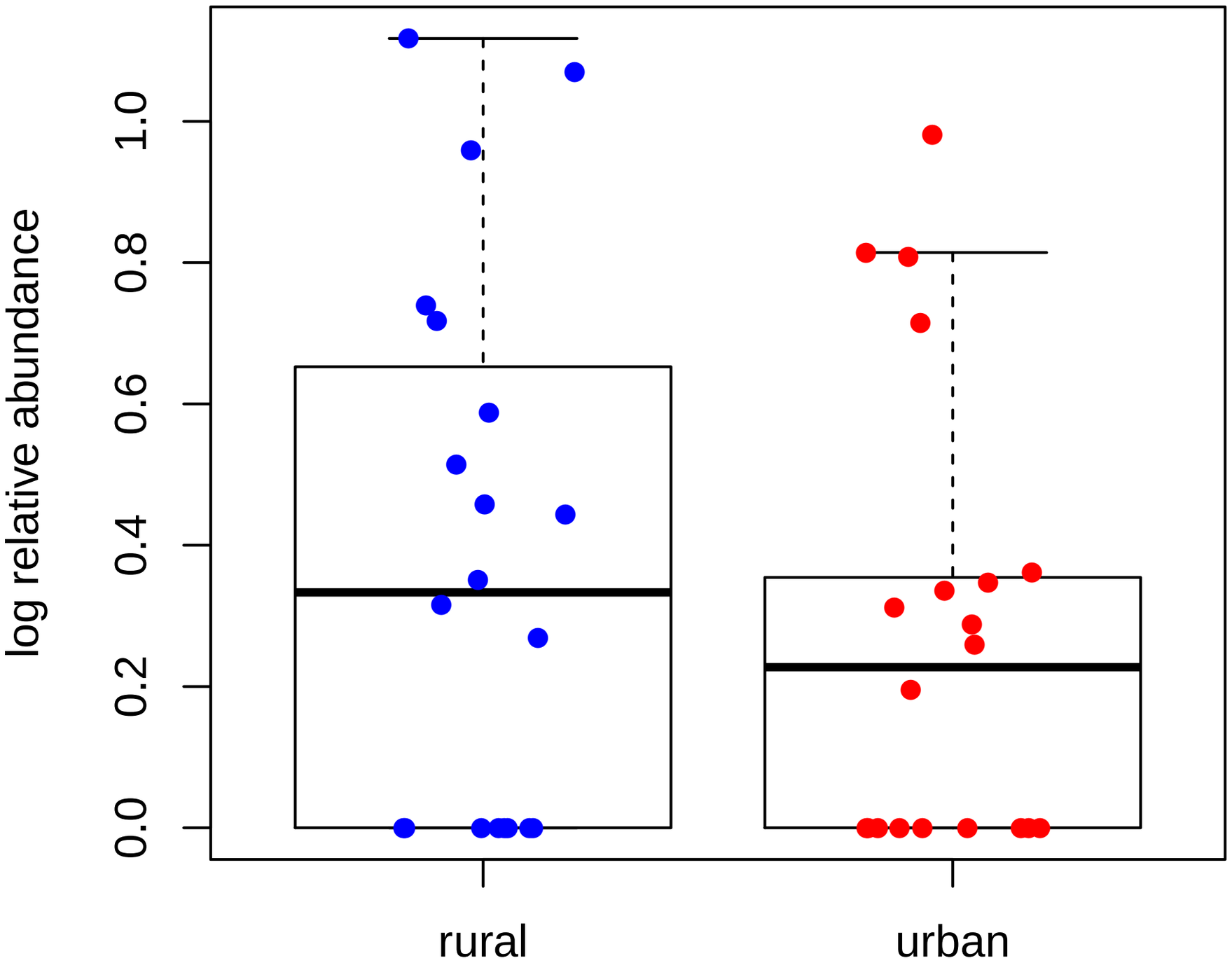

WGS species: Arcobacter_sp._L
pAdjRuralUrban= 0.538
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

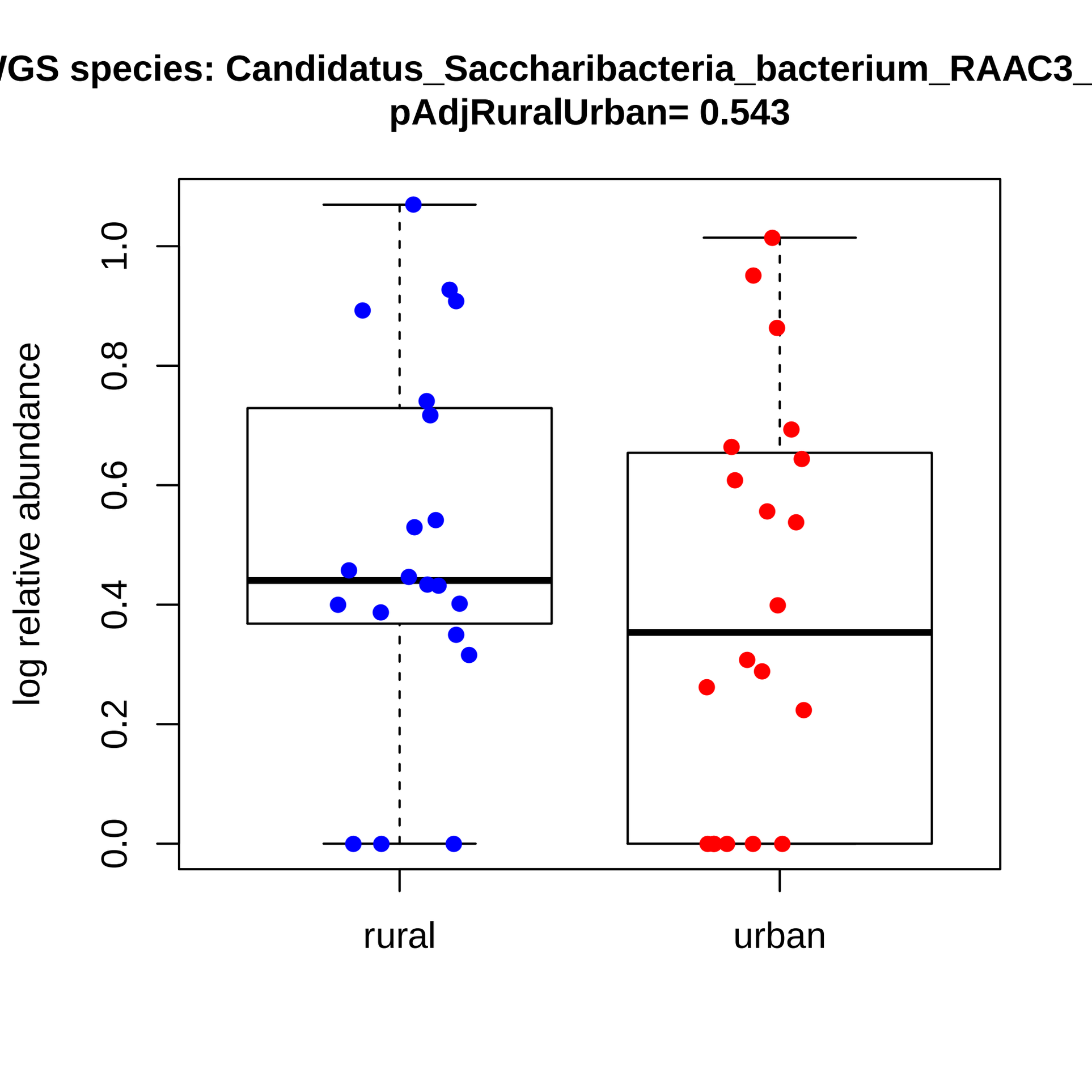

WGS species: Candidatus_Sulfuricurvum_sp._RIFRC.1
pAdjRuralUrban= 0.539
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

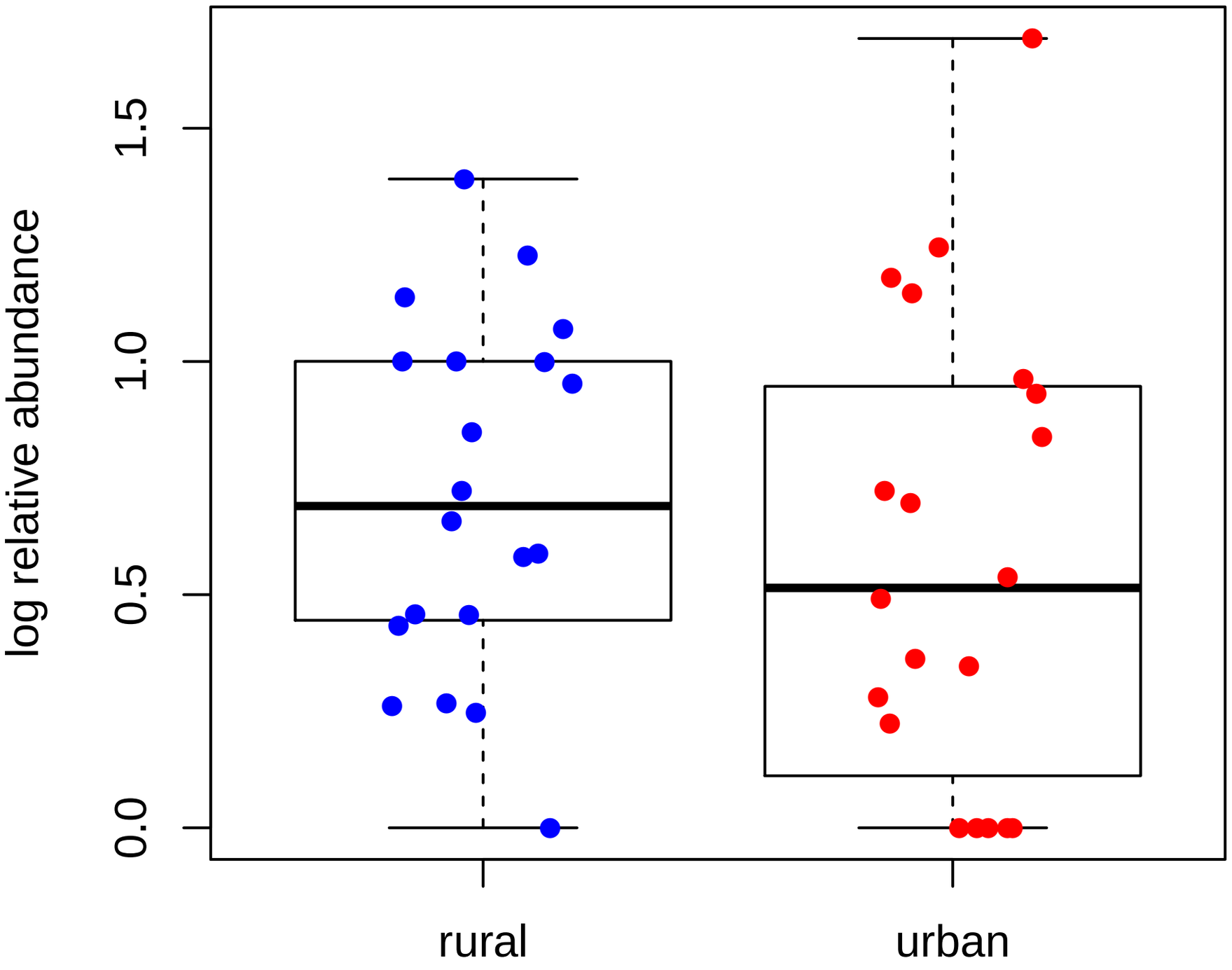

WGS species: Streptomyces_sp._SirexAA.E
pAdjRuralUrban= 0.539
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

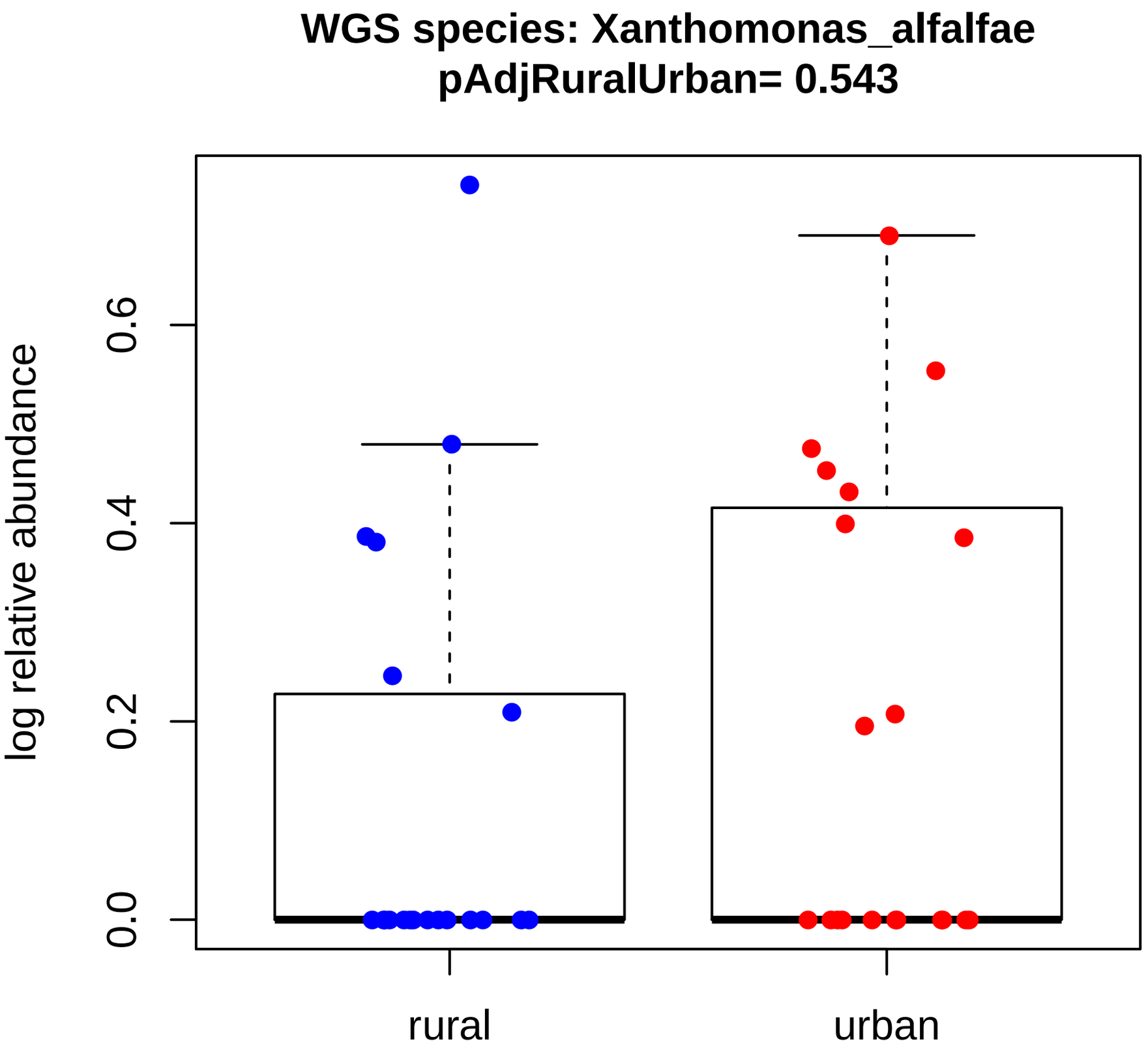

WGS species: Photorhabdus_asymbiotica
pAdjRuralUrban= 0.539
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

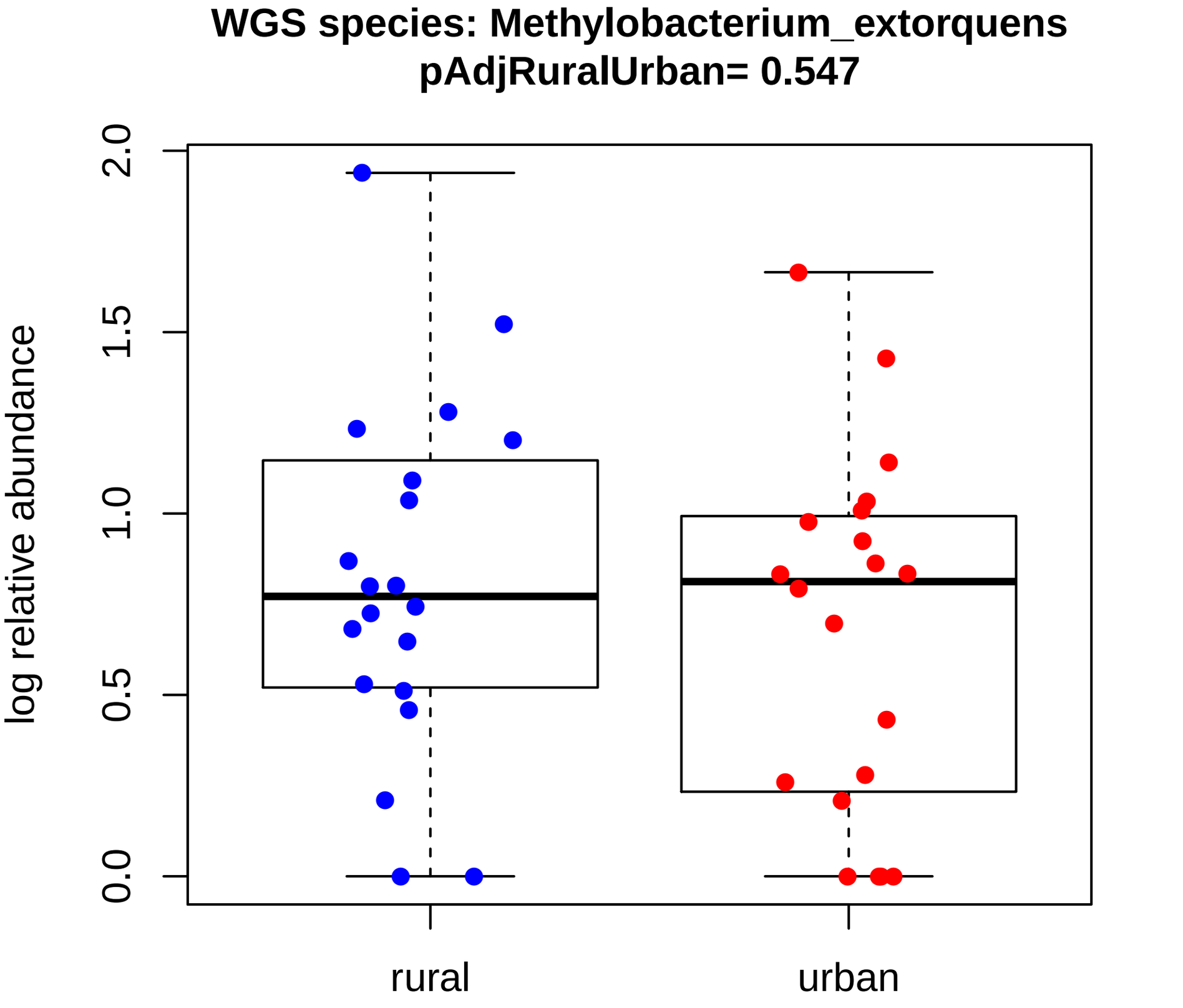

WGS species: Isosphaera_pallida
pAdjRuralUrban= 0.541
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

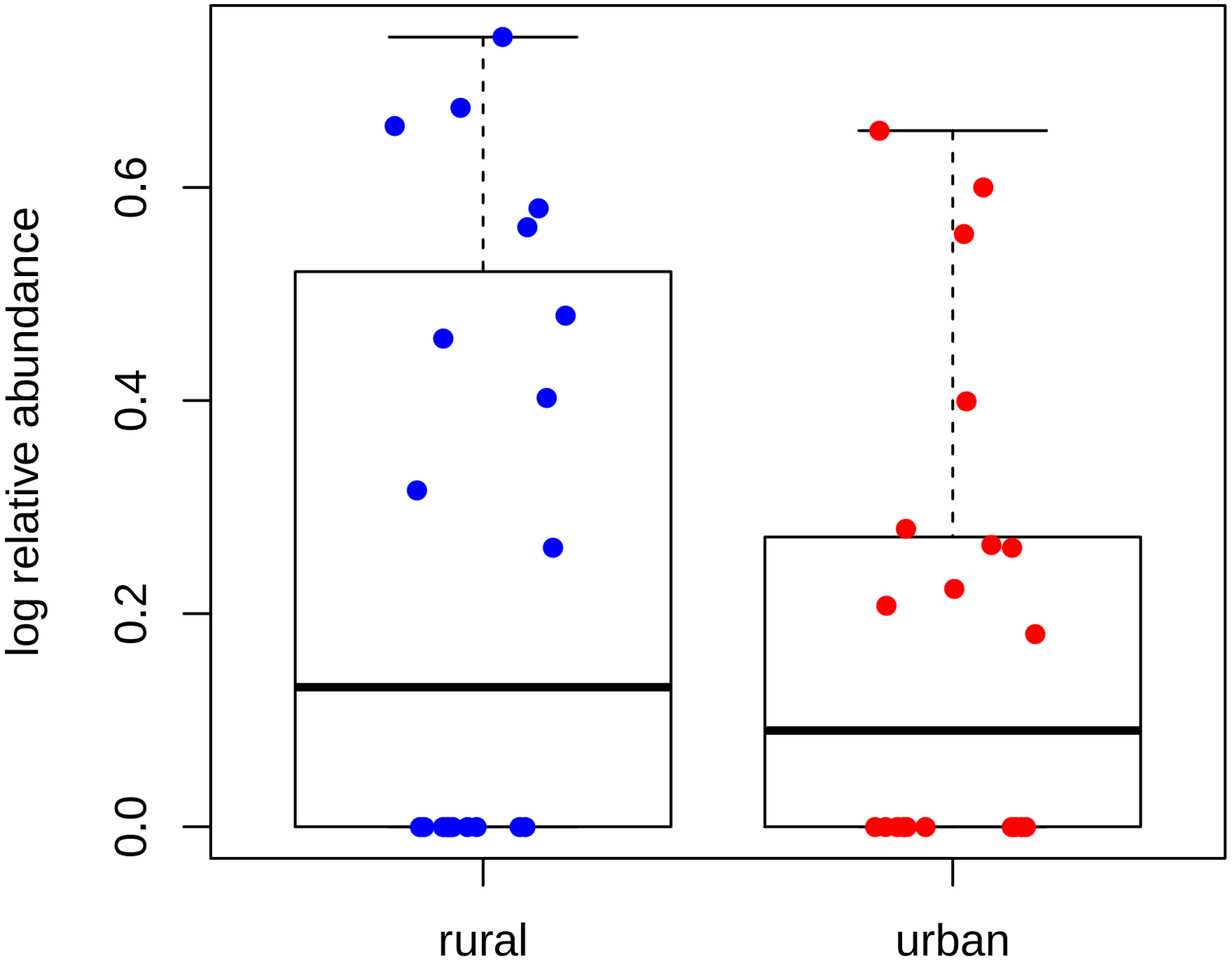

WGS species: Amycolatopsis_orientalis
pAdjRuralUrban= 0.543
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

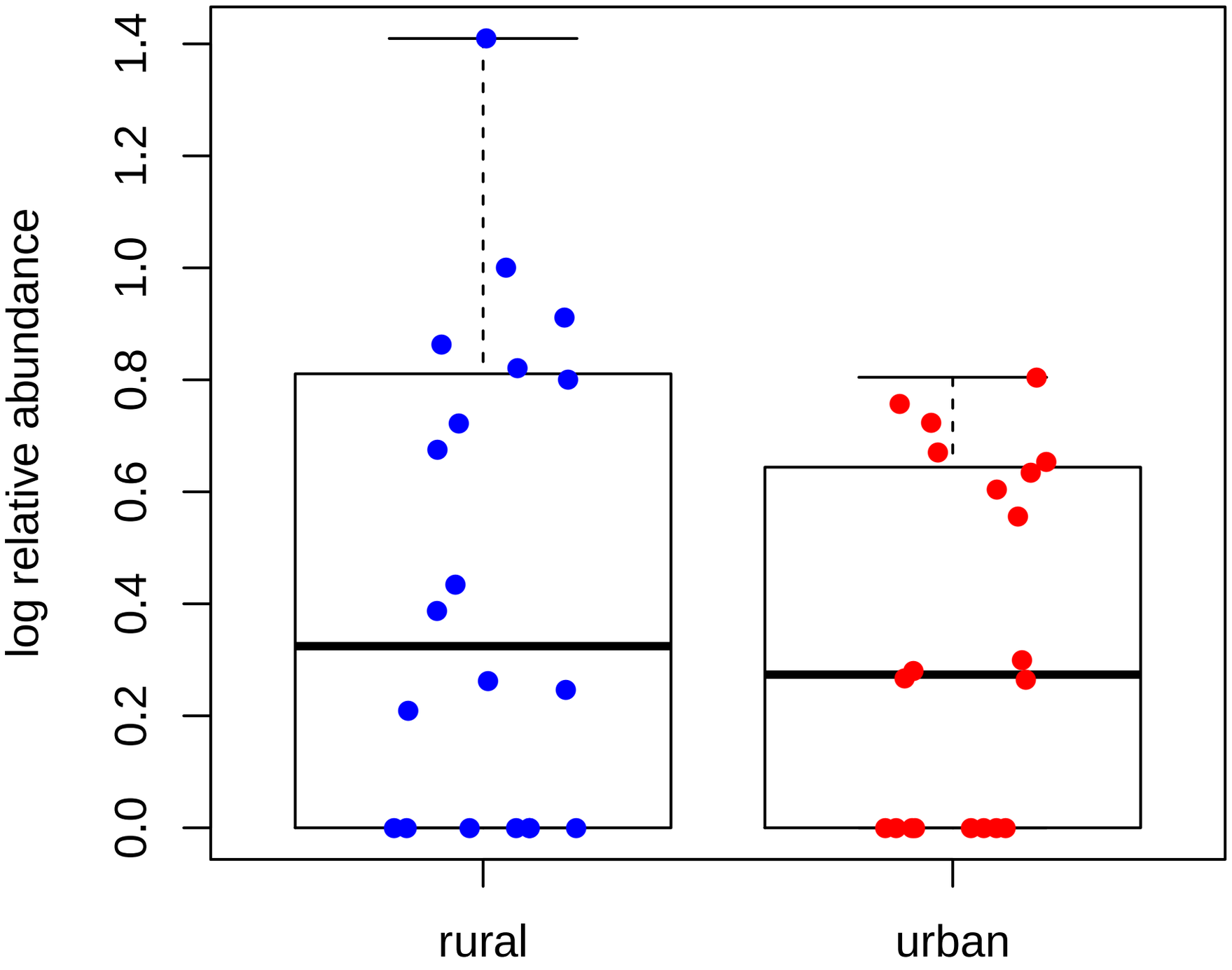

VGS species: Candidatus_Saccharibacteria_bacterium_RAAC3_
pAdjRuralUrban= 0.543
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

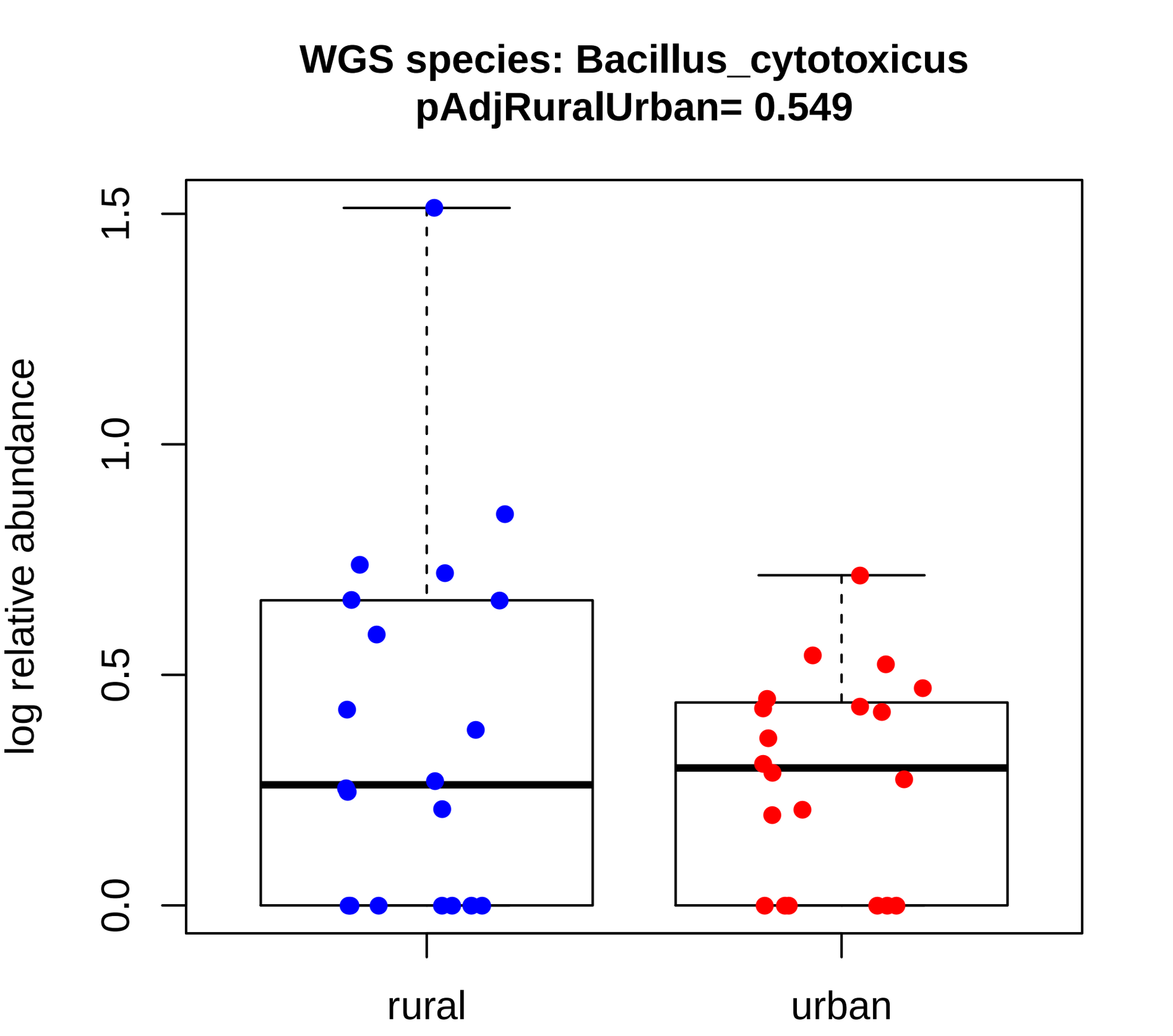

WGS species: Singulisphaera_acidiphila
pAdjRuralUrban= 0.543
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

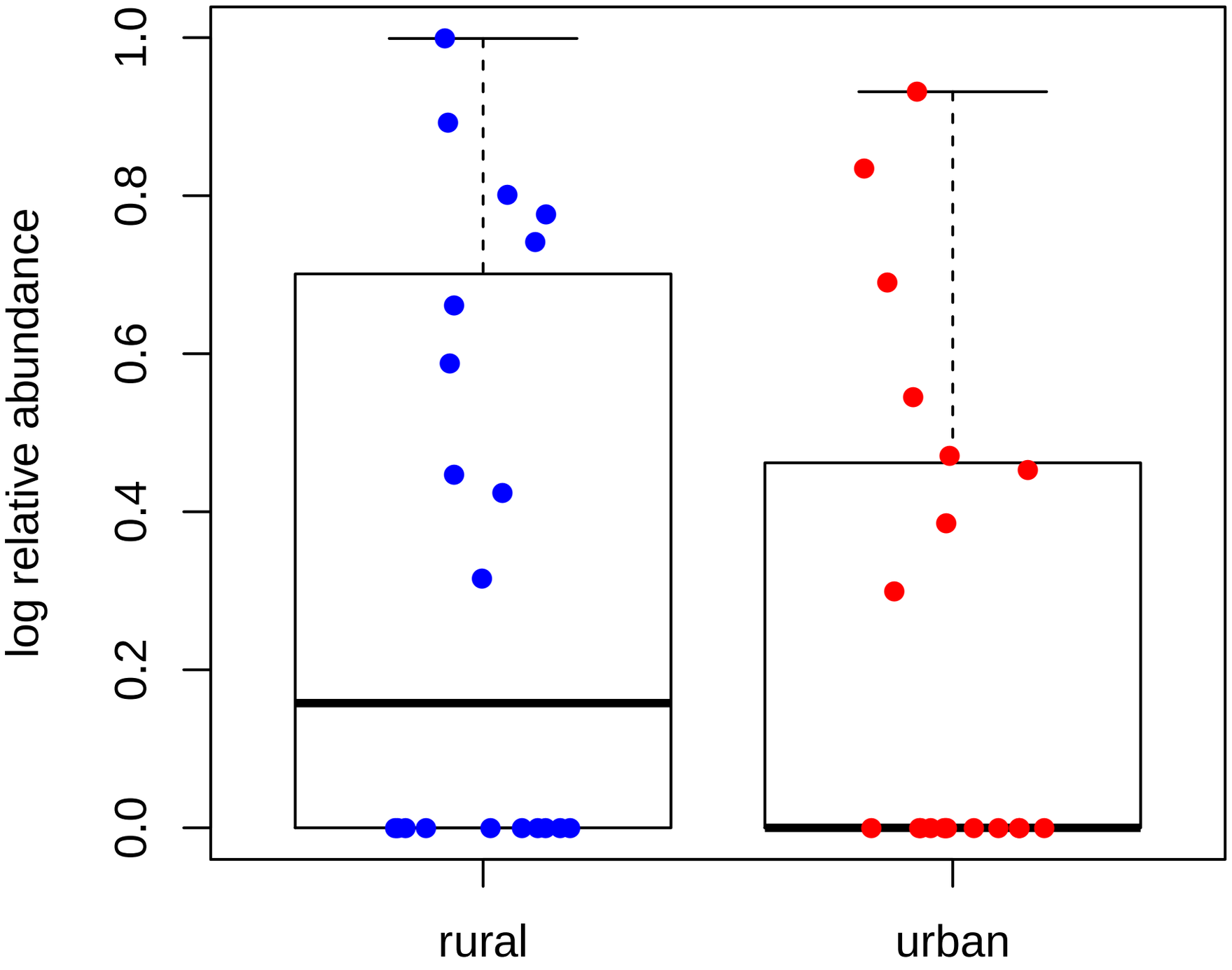

WGS species: Xanthomonas_alfalfae
pAdjRuralUrban= 0.543
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

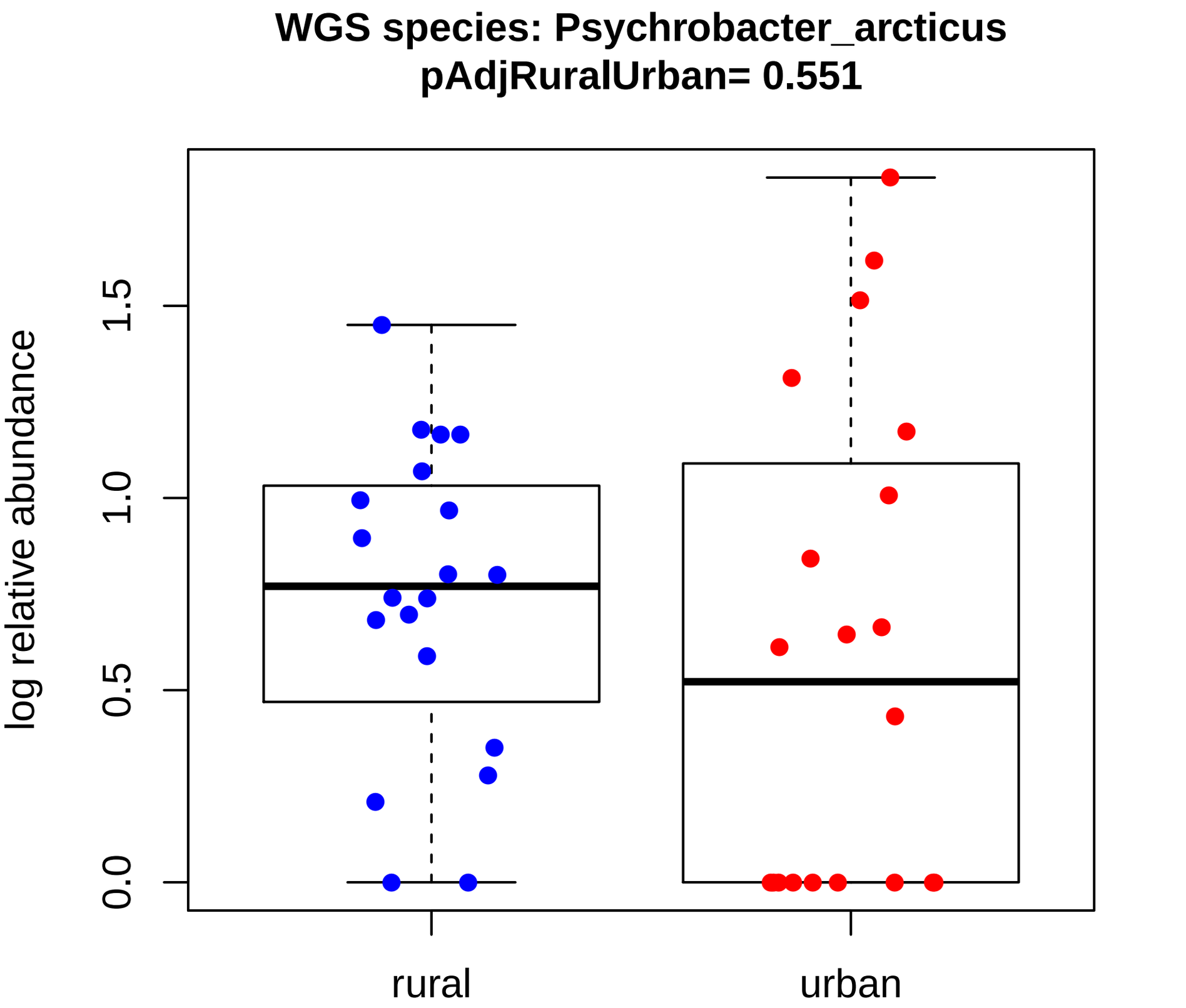

WGS species: Methylobacterium_extorquens
pAdjRuralUrban= 0.547
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

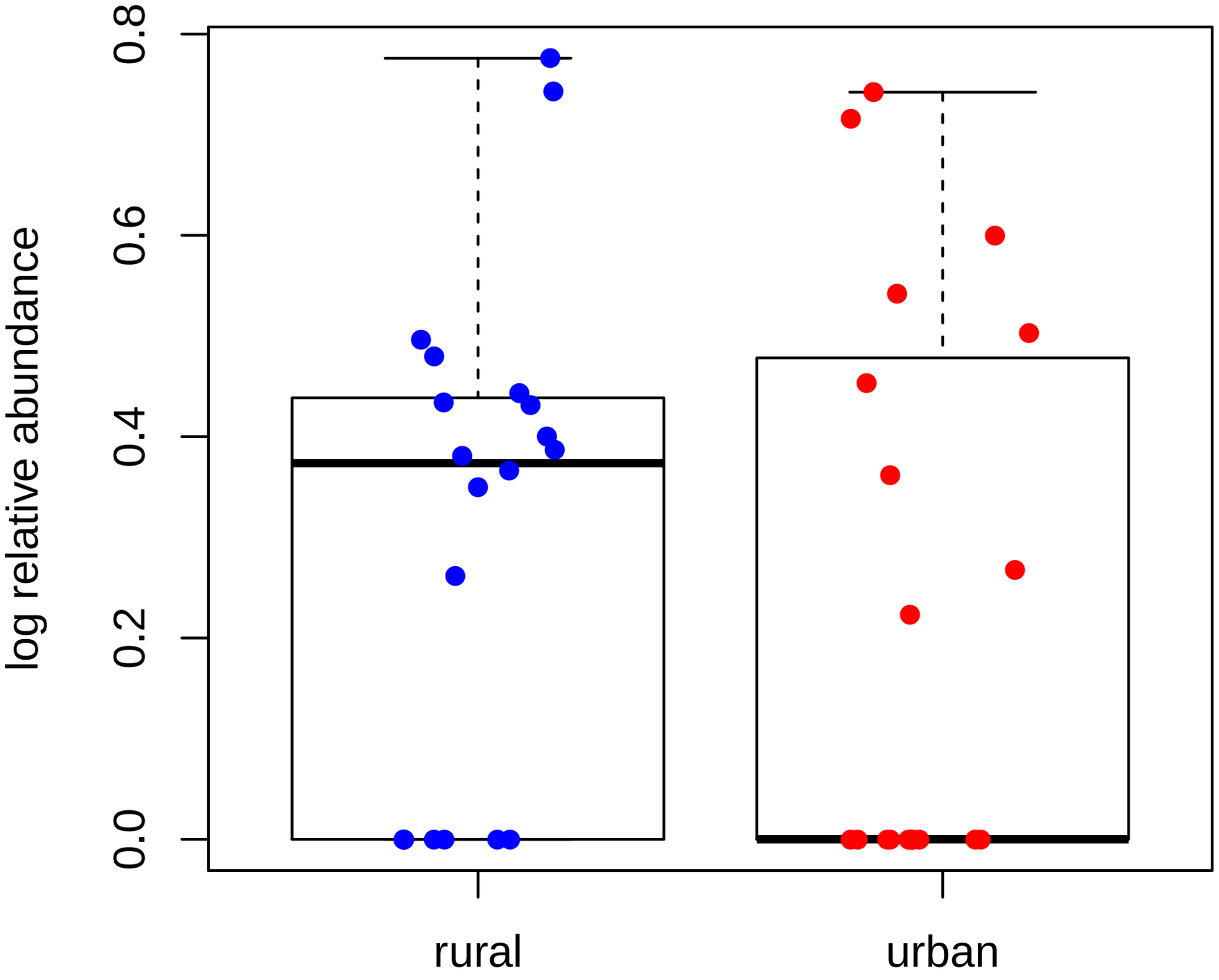

WGS species: Mesorhizobium_loti
pAdjRuralUrban= 0.548
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

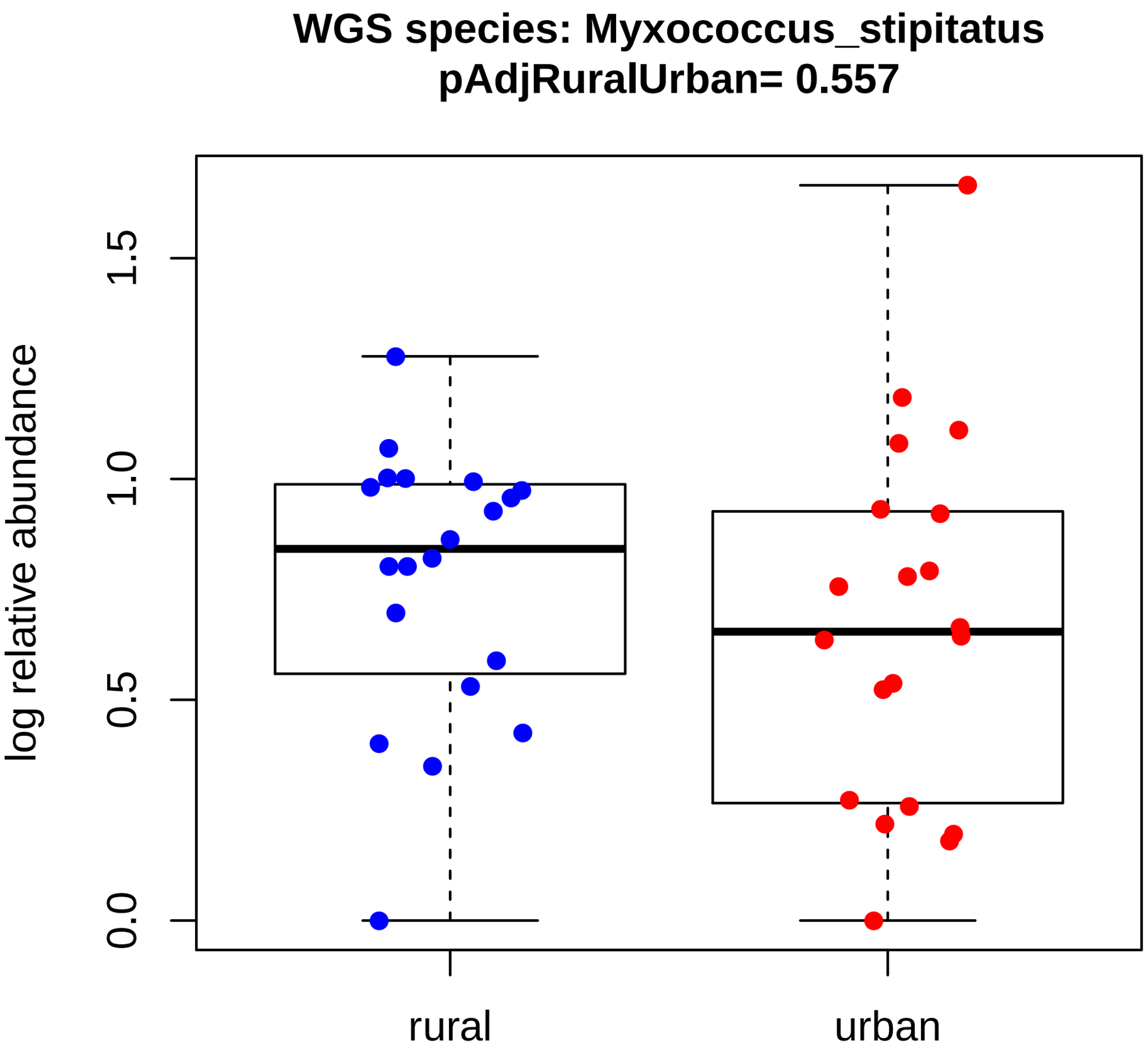

WGS species: Magnetococcus_marinus
pAdjRuralUrban= 0.548
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

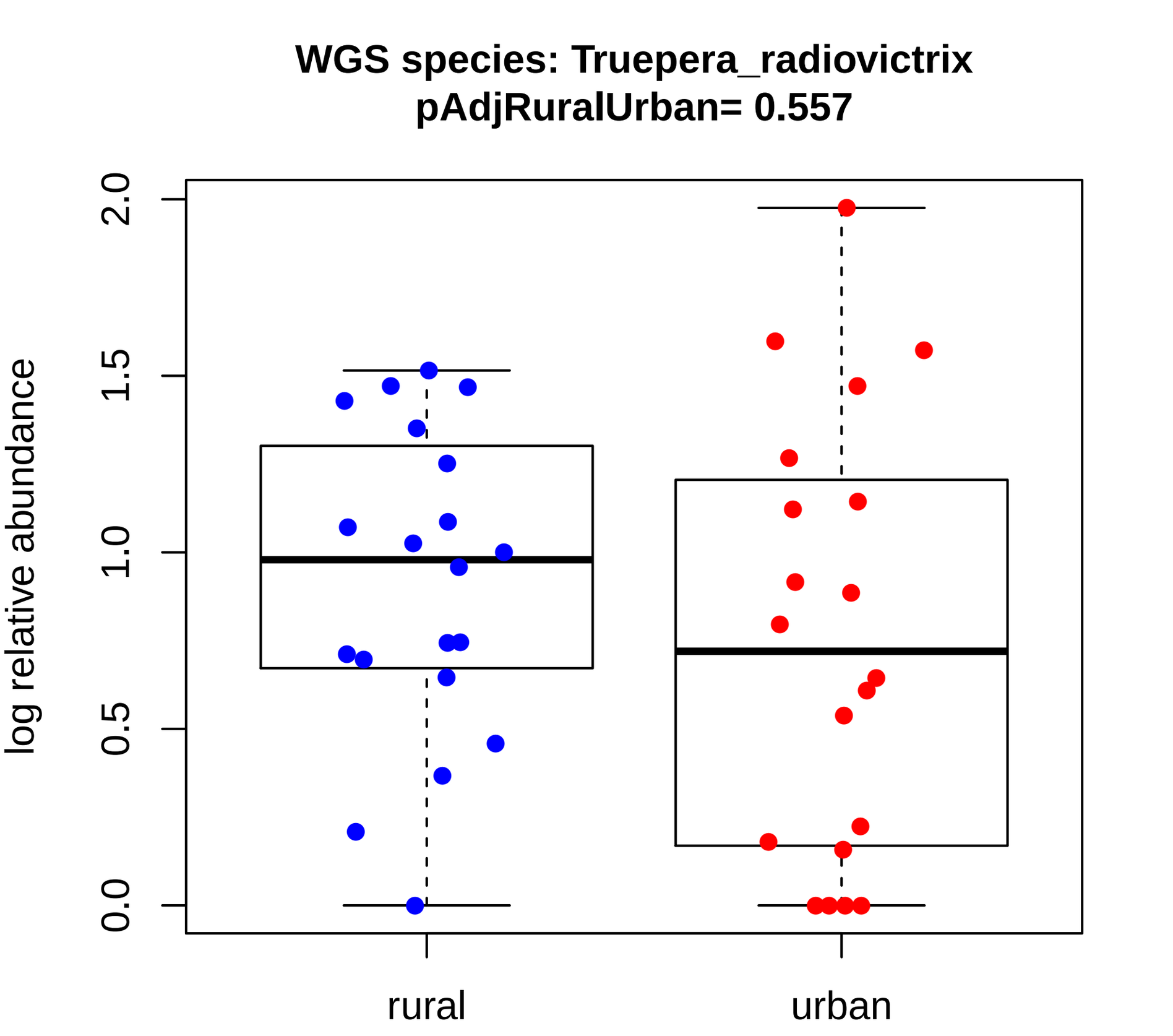

WGS species: Bacillus_cytotoxicus
pAdjRuralUrban= 0.549
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

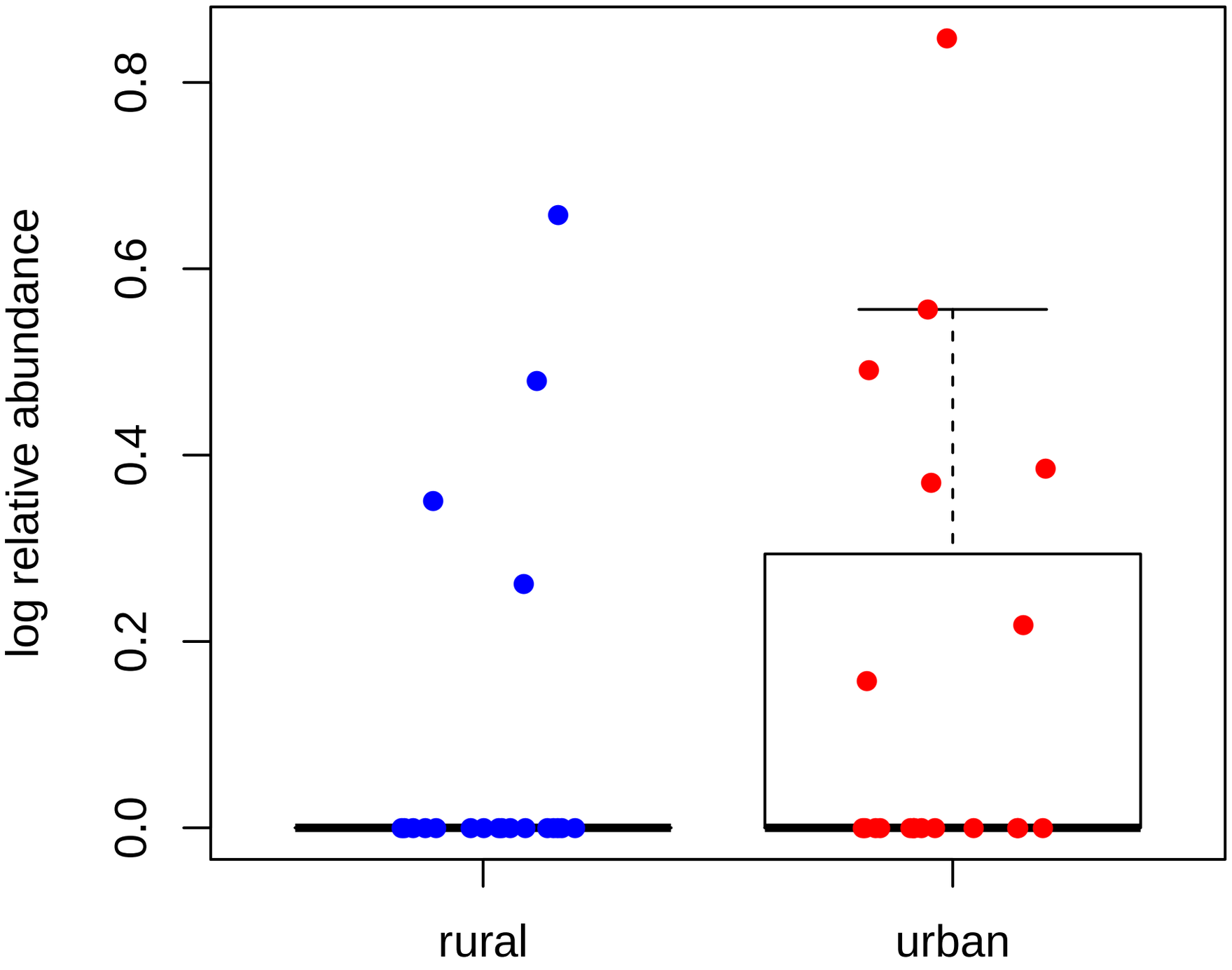

WGS species: Nitrobacter_winogradskyi
pAdjRuralUrban= 0.551
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

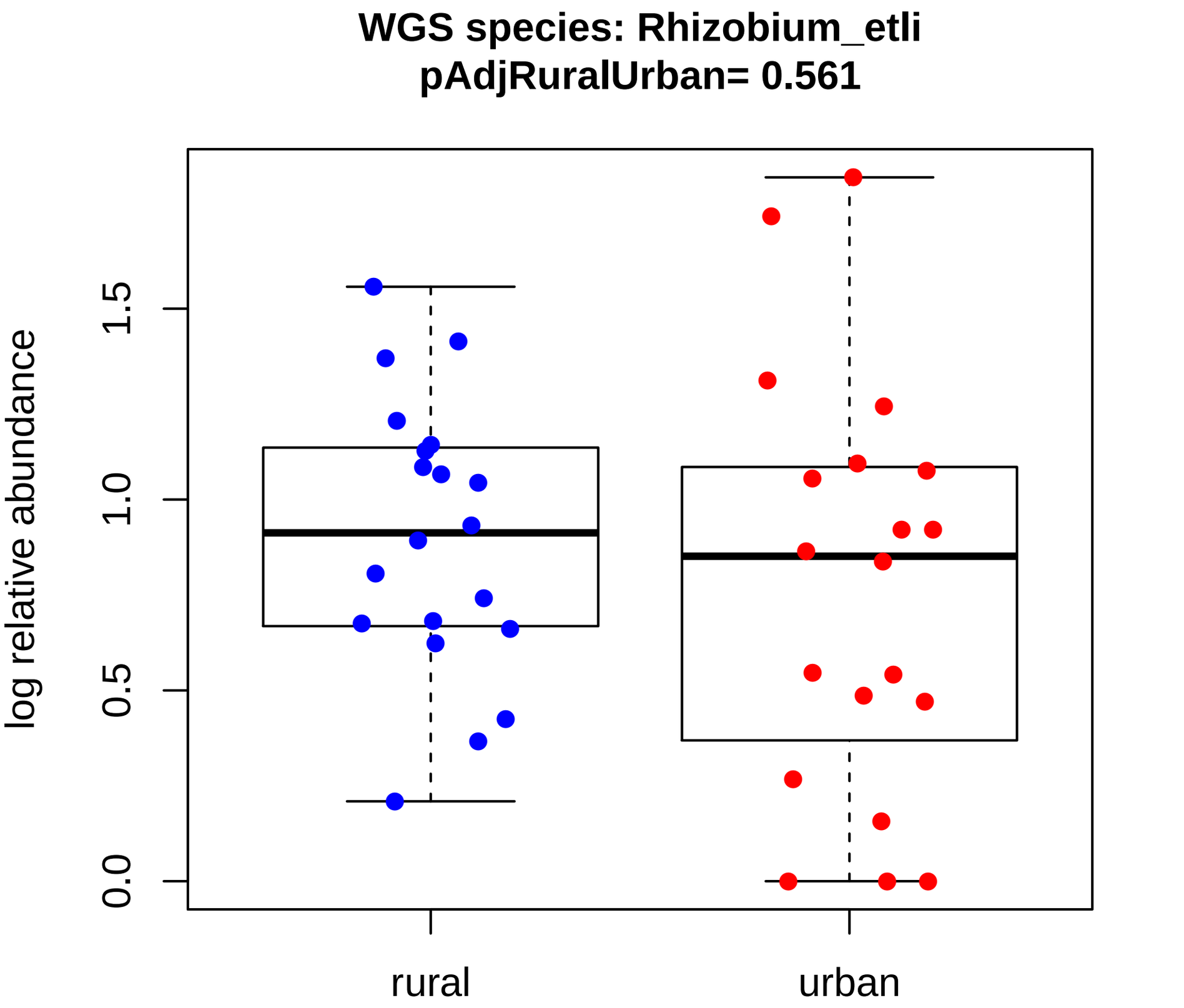

WGS species: Psychrobacter_arcticus
pAdjRuralUrban= 0.551
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

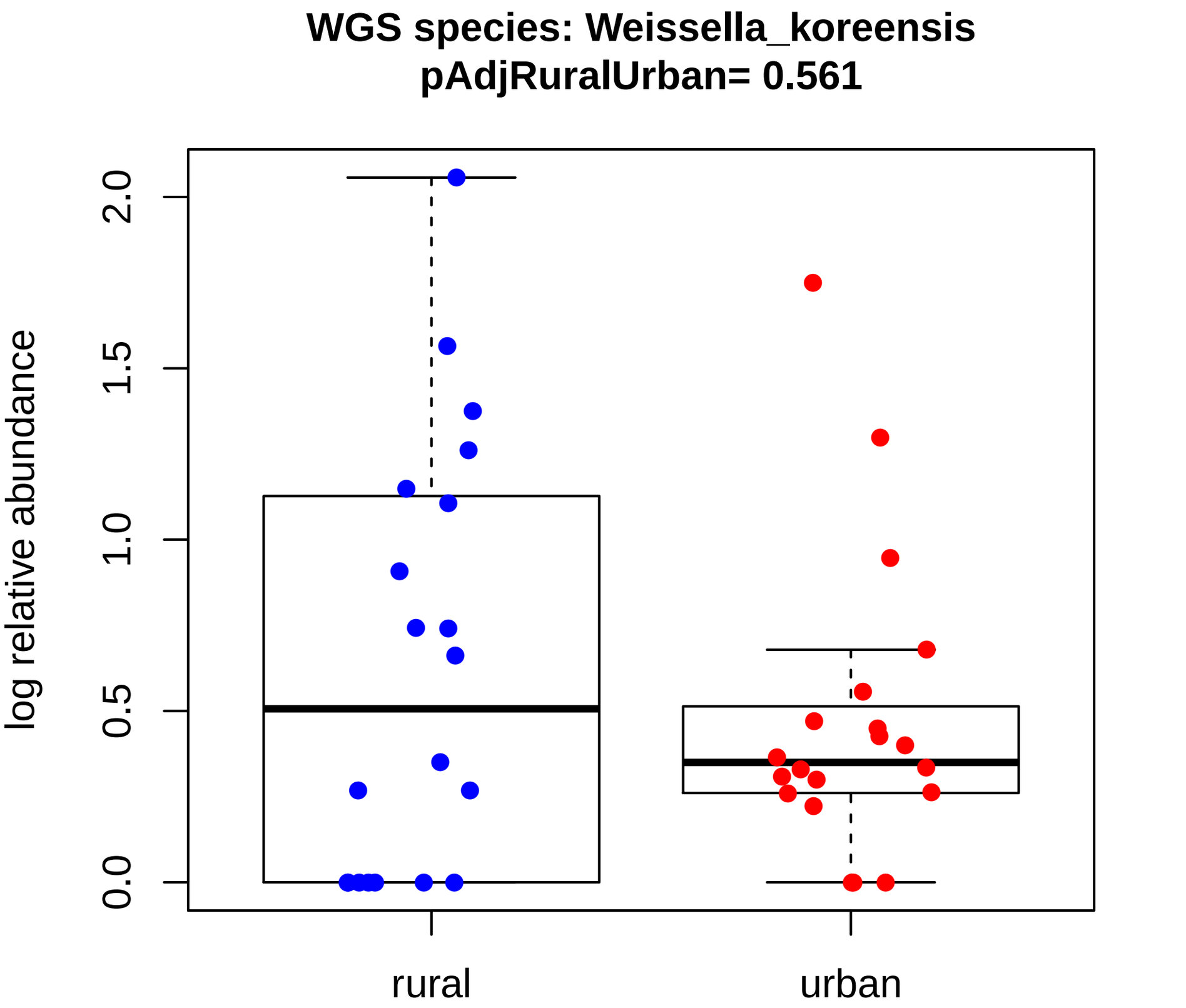

WGS species: Nitrosomonas_sp._AL212
pAdjRuralUrban= 0.555
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

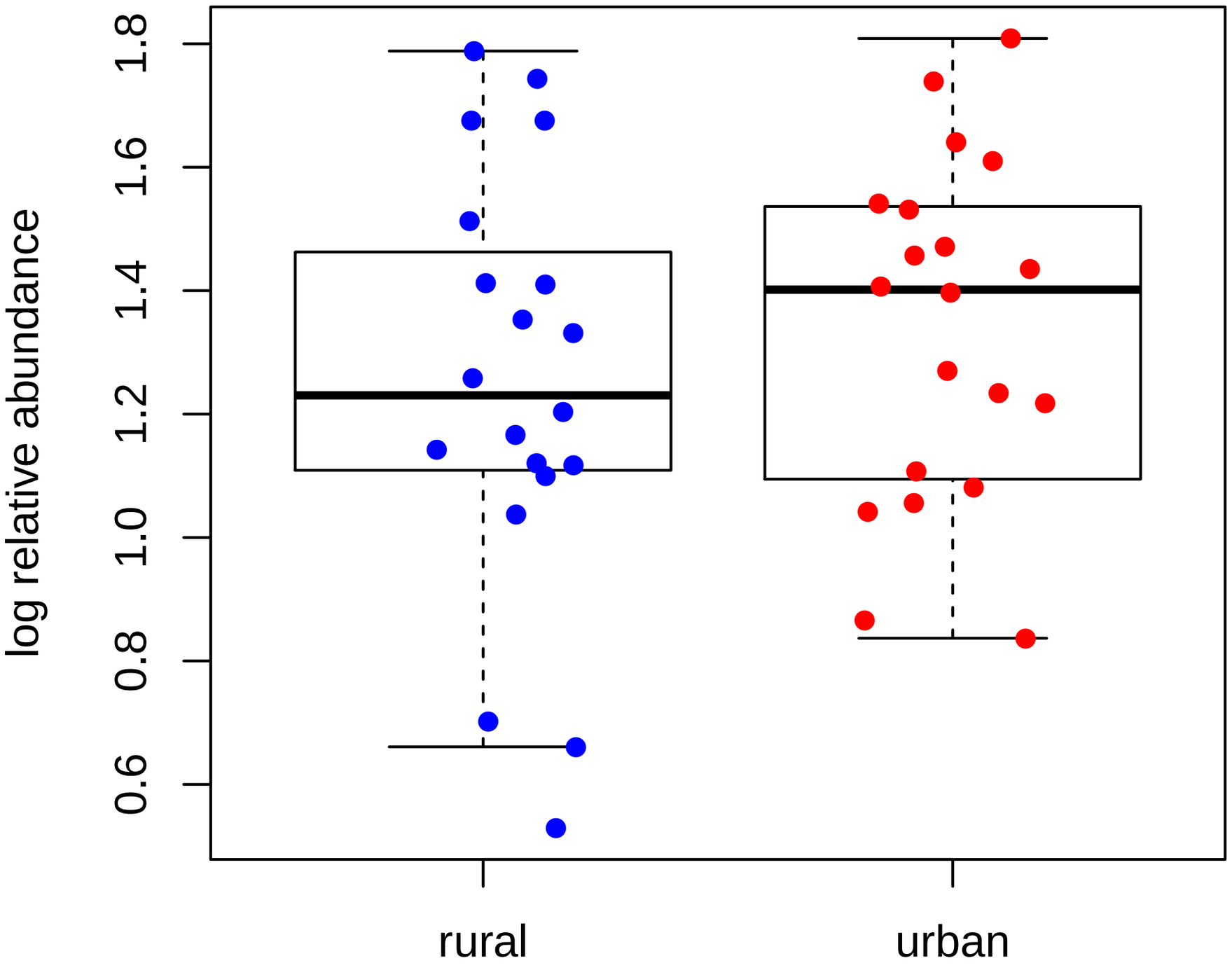

WGS species: Myxococcus_stipitatus
pAdjRuralUrban= 0.557
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

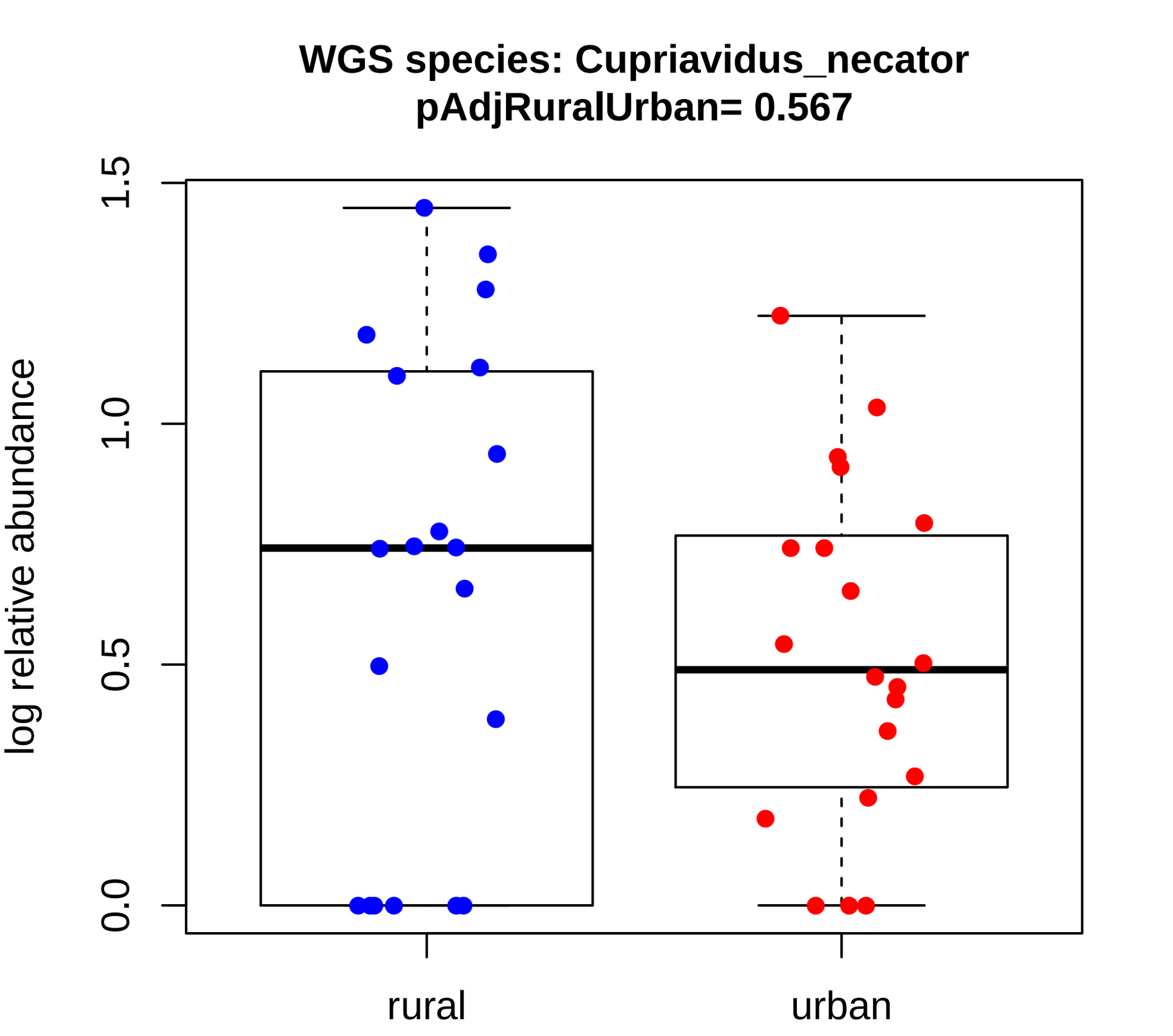

WGS species: Truepera_radiovictrix
pAdjRuralUrban= 0.557
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

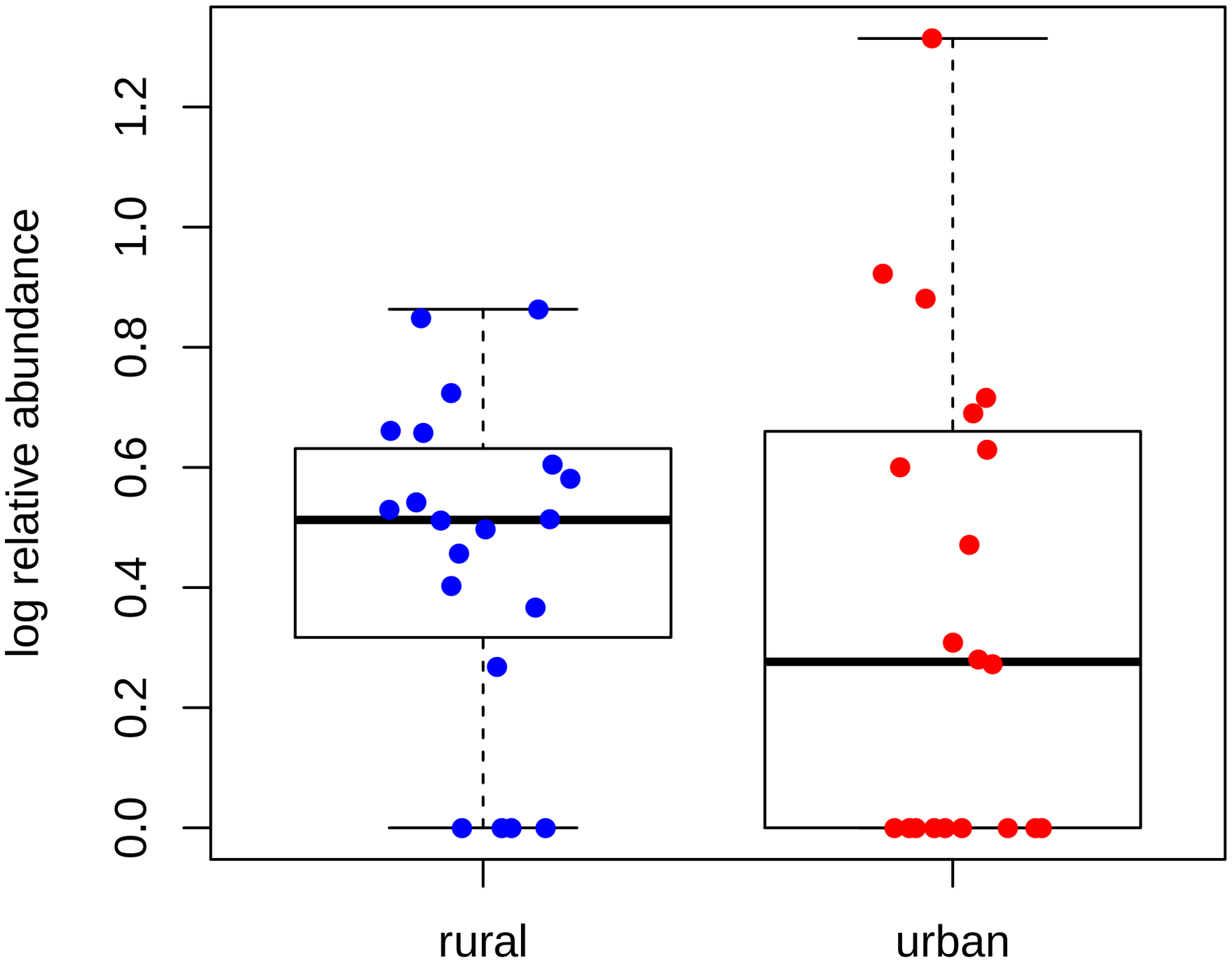

WGS species: Helicobacter_bizzozeronii
pAdjRuralUrban= 0.561
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

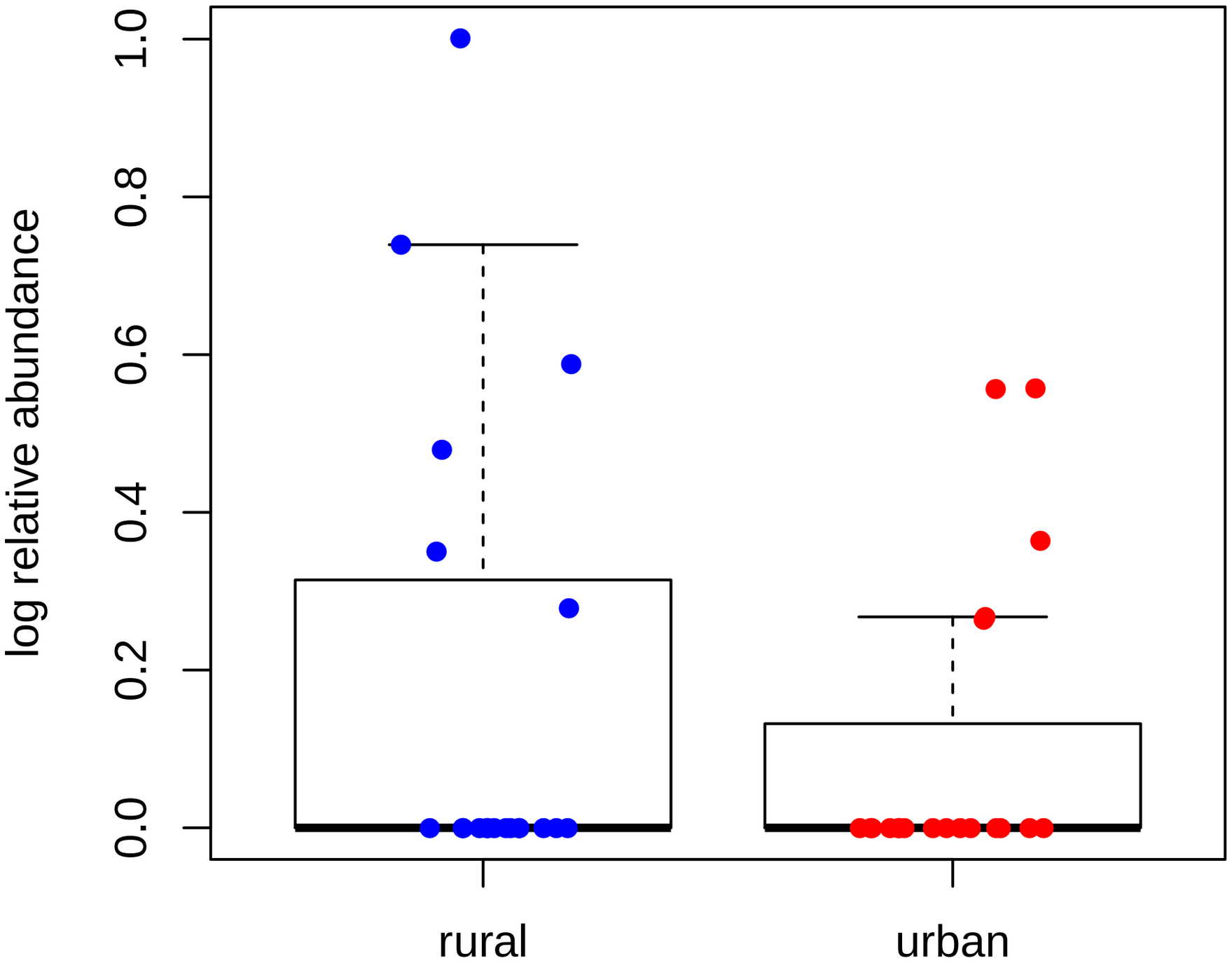

WGS species: Rhizobium_etli
pAdjRuralUrban= 0.561
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

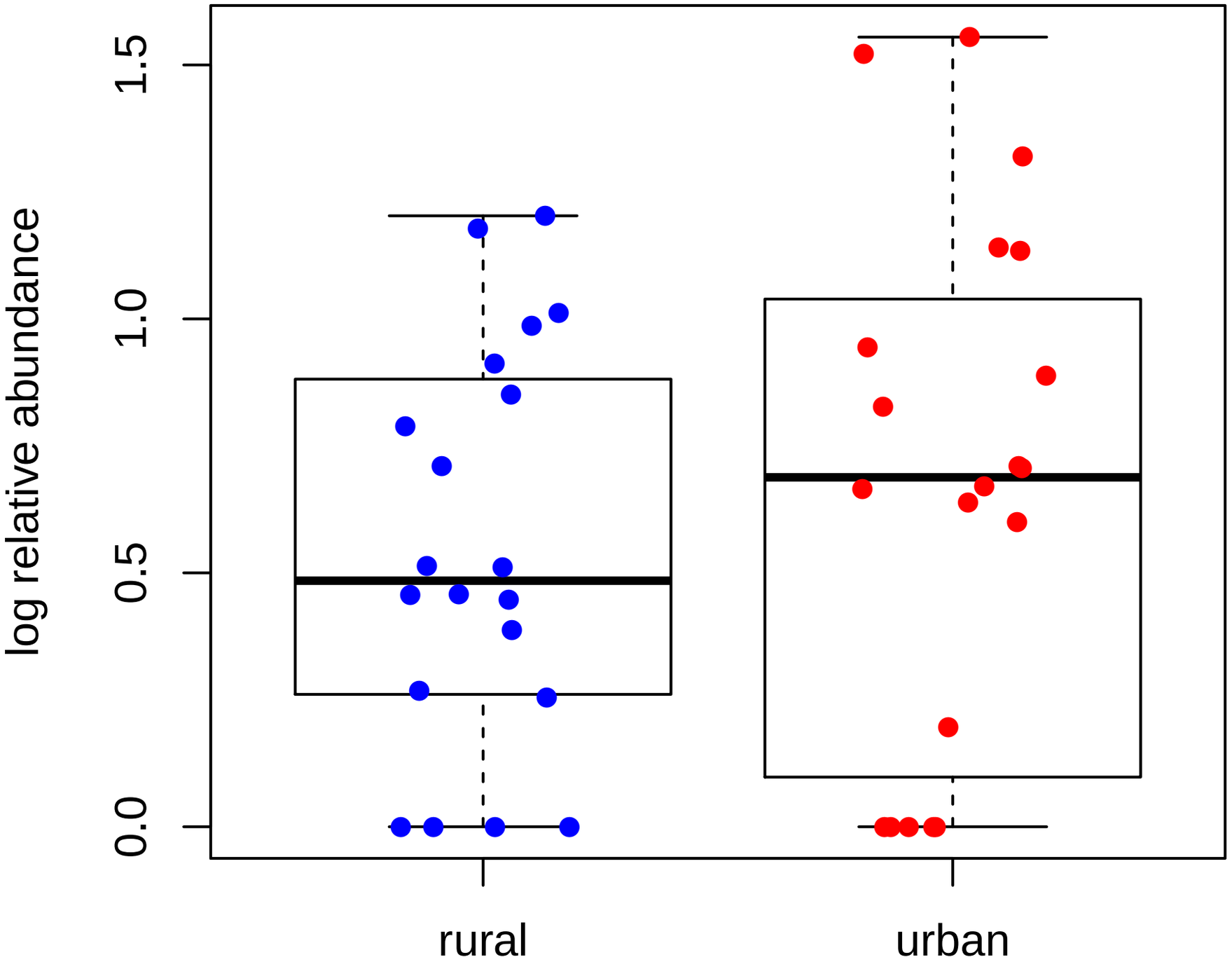

WGS species: Weissella_koreensis
pAdjRuralUrban= 0.561
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

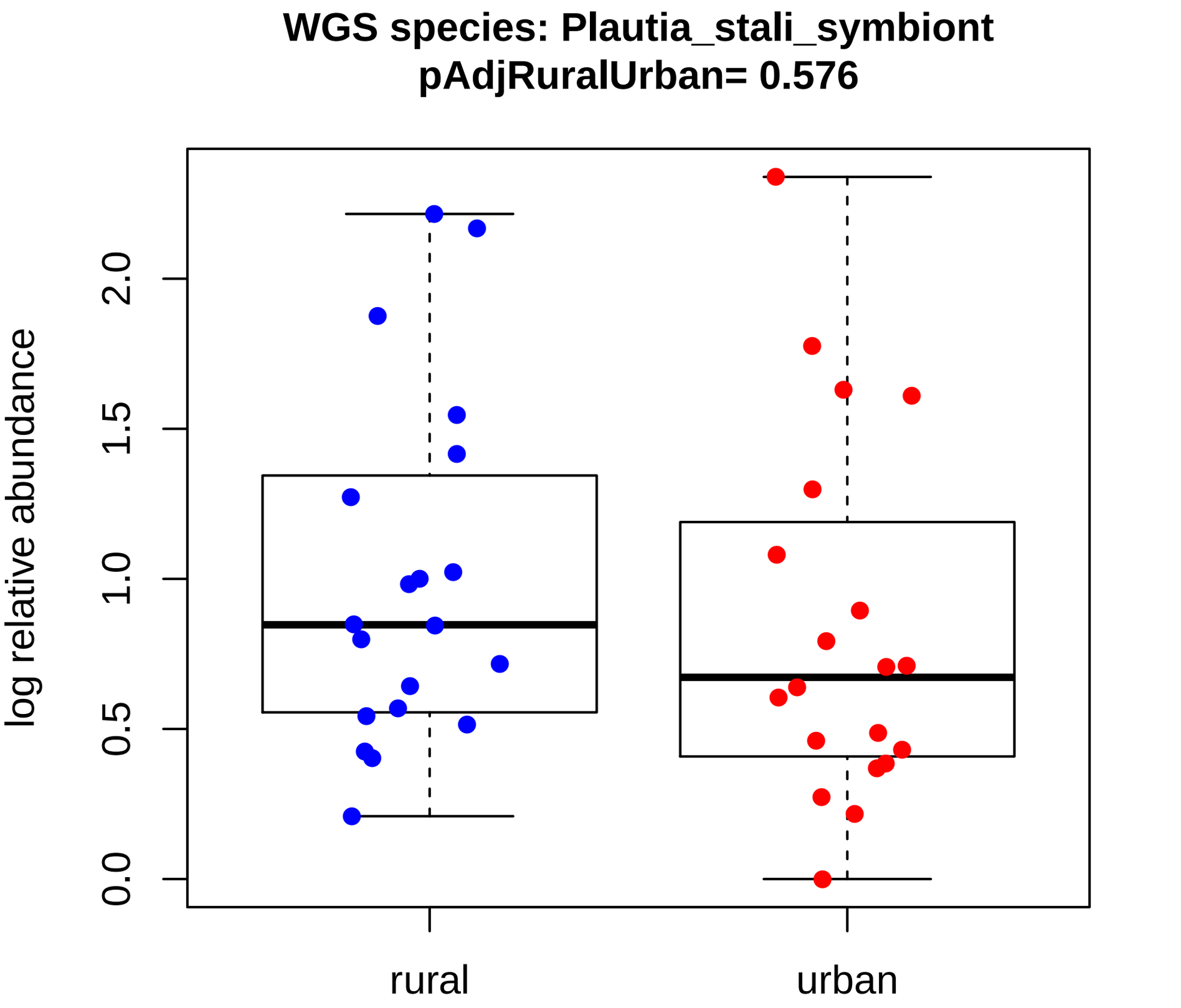

WGS species: Syntrophobotulus_glycolicus
pAdjRuralUrban= 0.561
log relative abundance
0.6
0.8
1.0
1.2
1.4
1.6
1.8
rural
urban

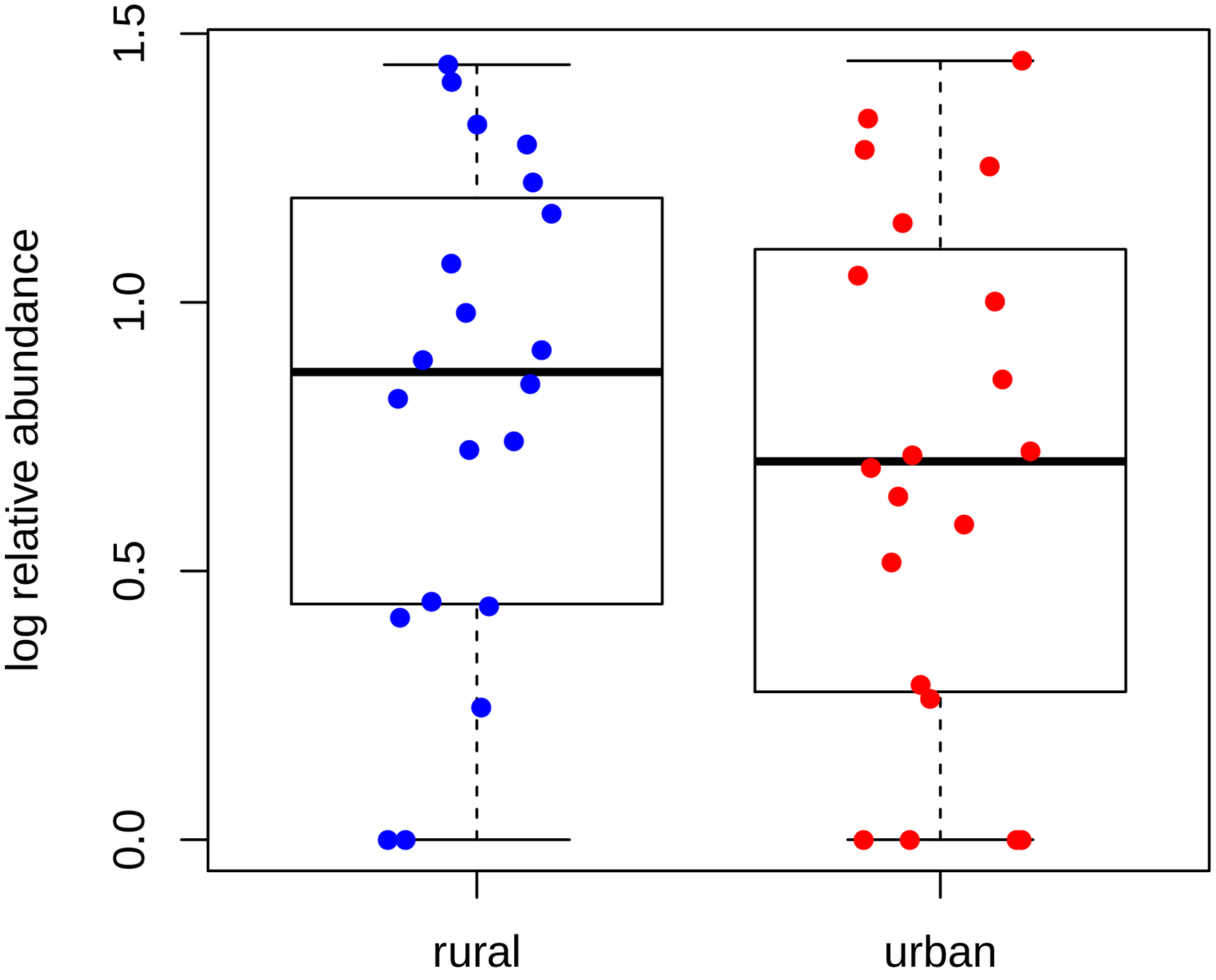

WGS species: Cupriavidus_necator
pAdjRuralUrban= 0.567
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

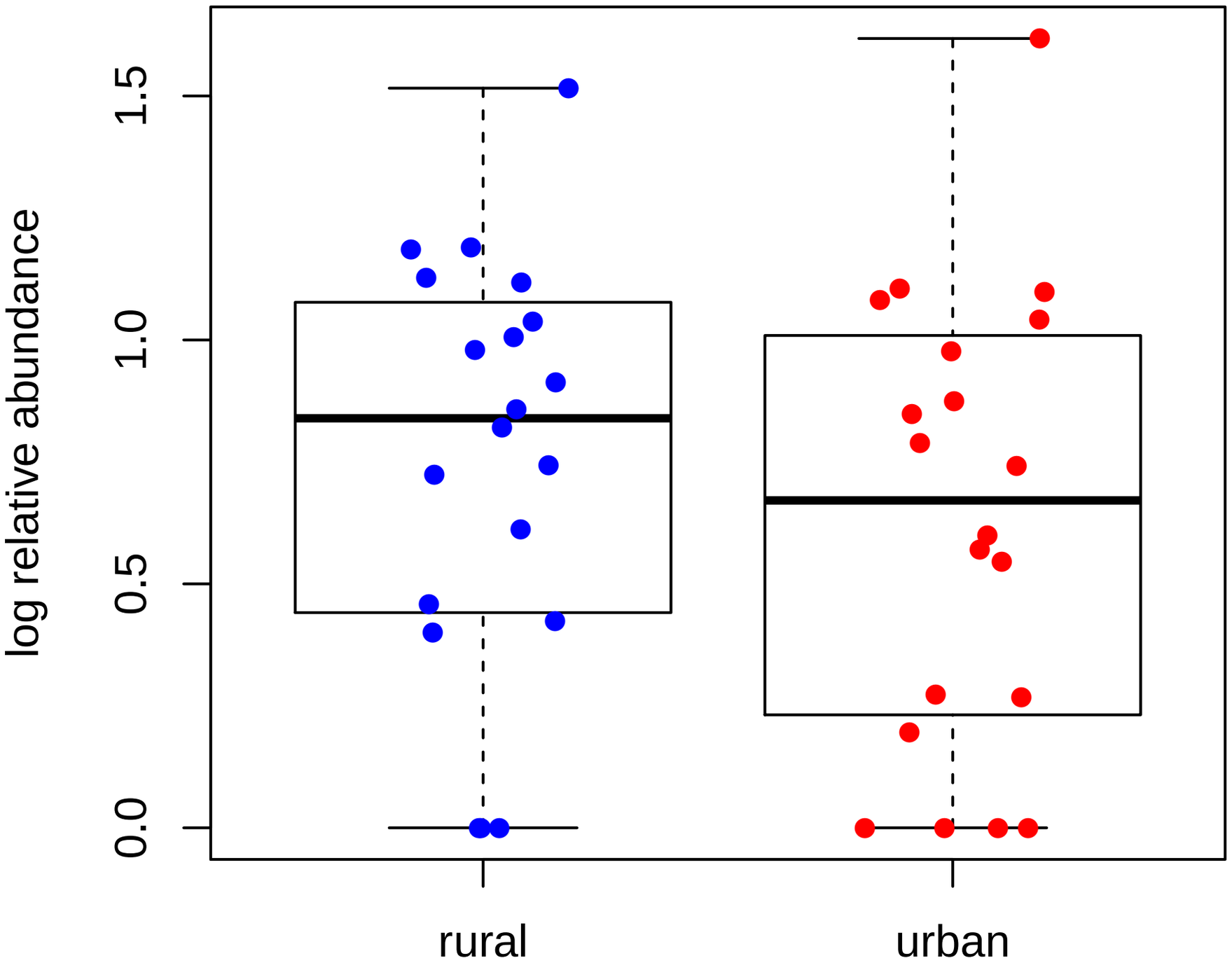

WGS species: Aliivibrio_fischeri
pAdjRuralUrban= 0.568
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

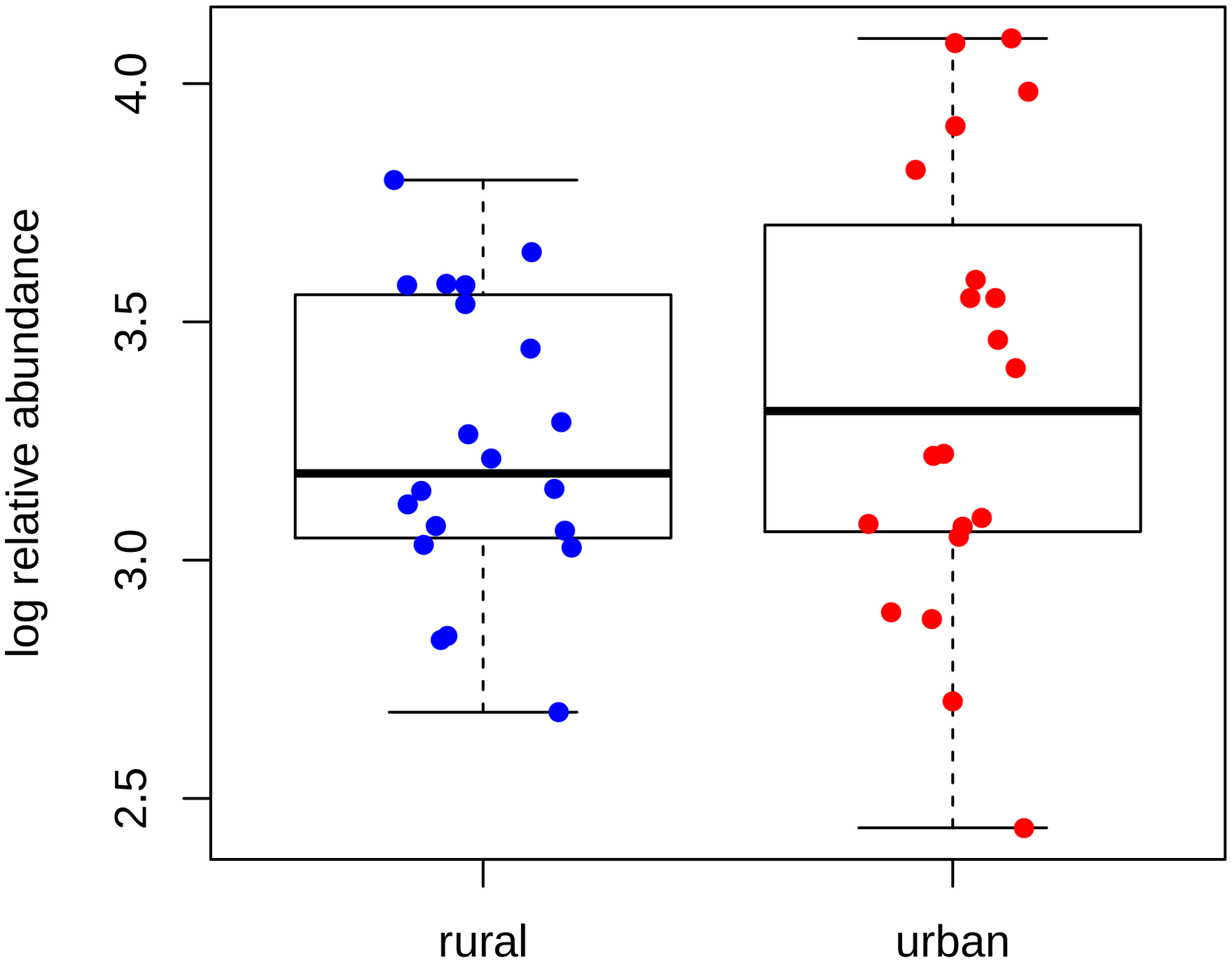

WGS species: Thermotoga_neapolitana
pAdjRuralUrban= 0.569
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

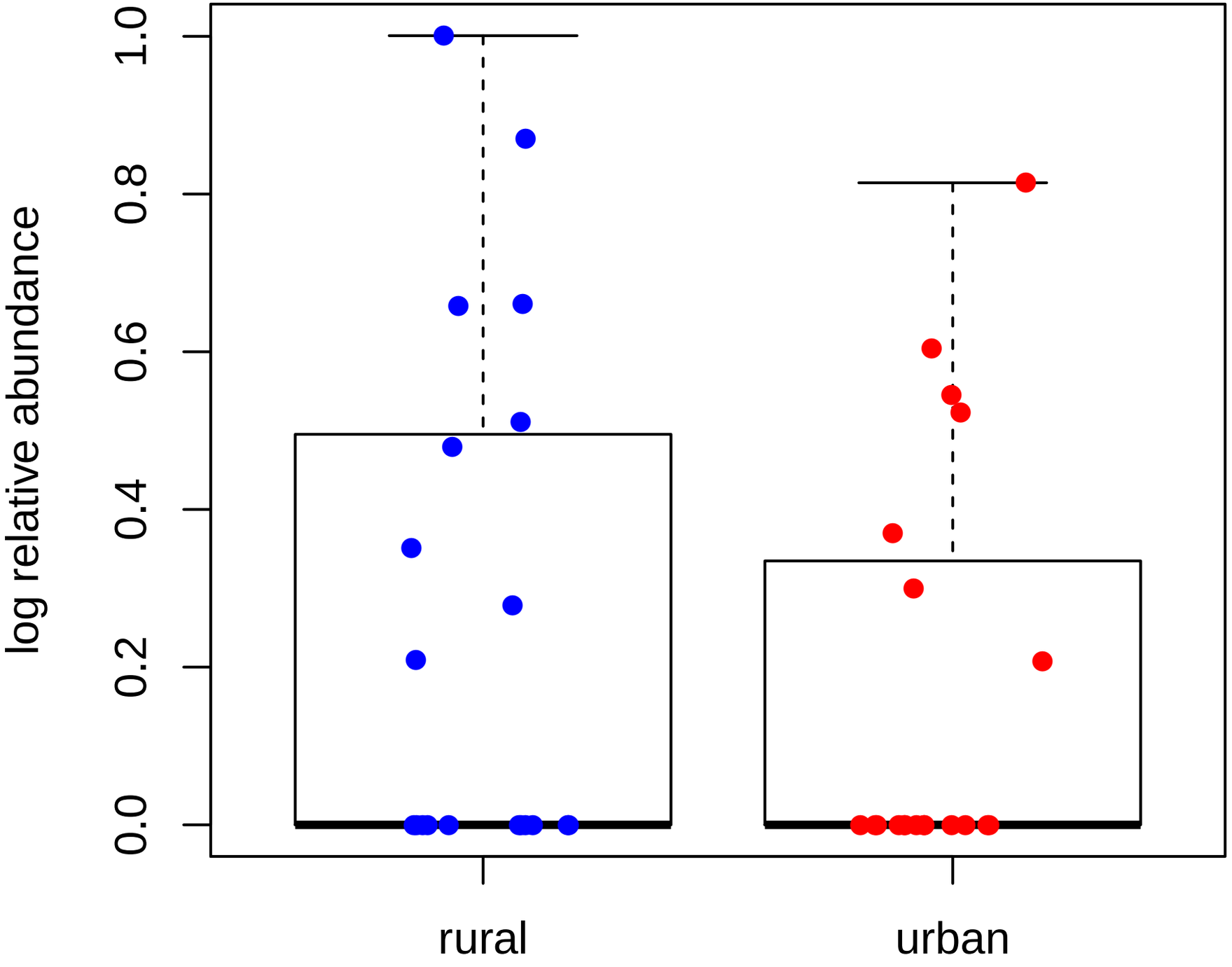

WGS species: Cylindrospermum_stagnale
pAdjRuralUrban= 0.57
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

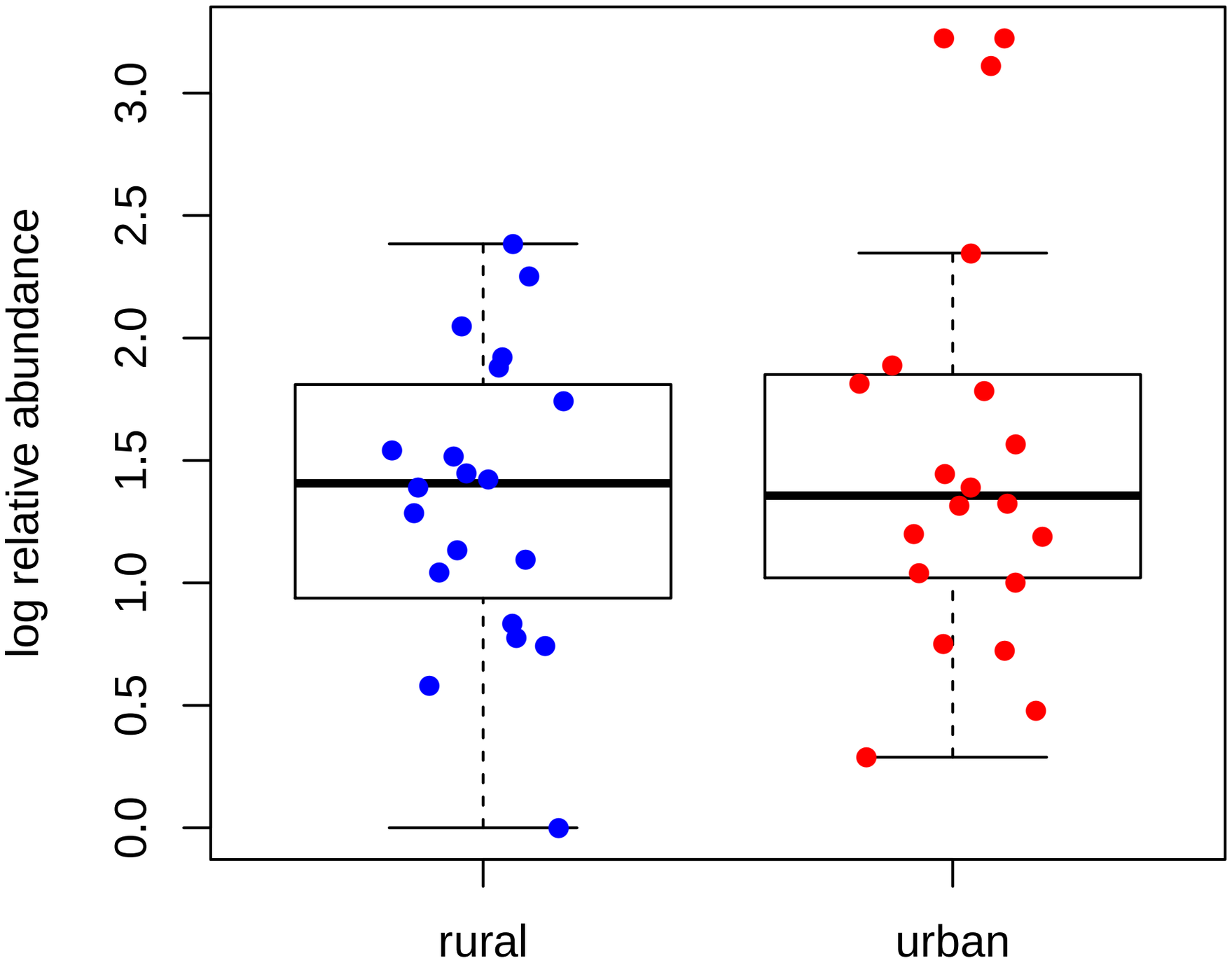

WGS species: Plautia_stali_symbiont
pAdjRuralUrban= 0.576
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

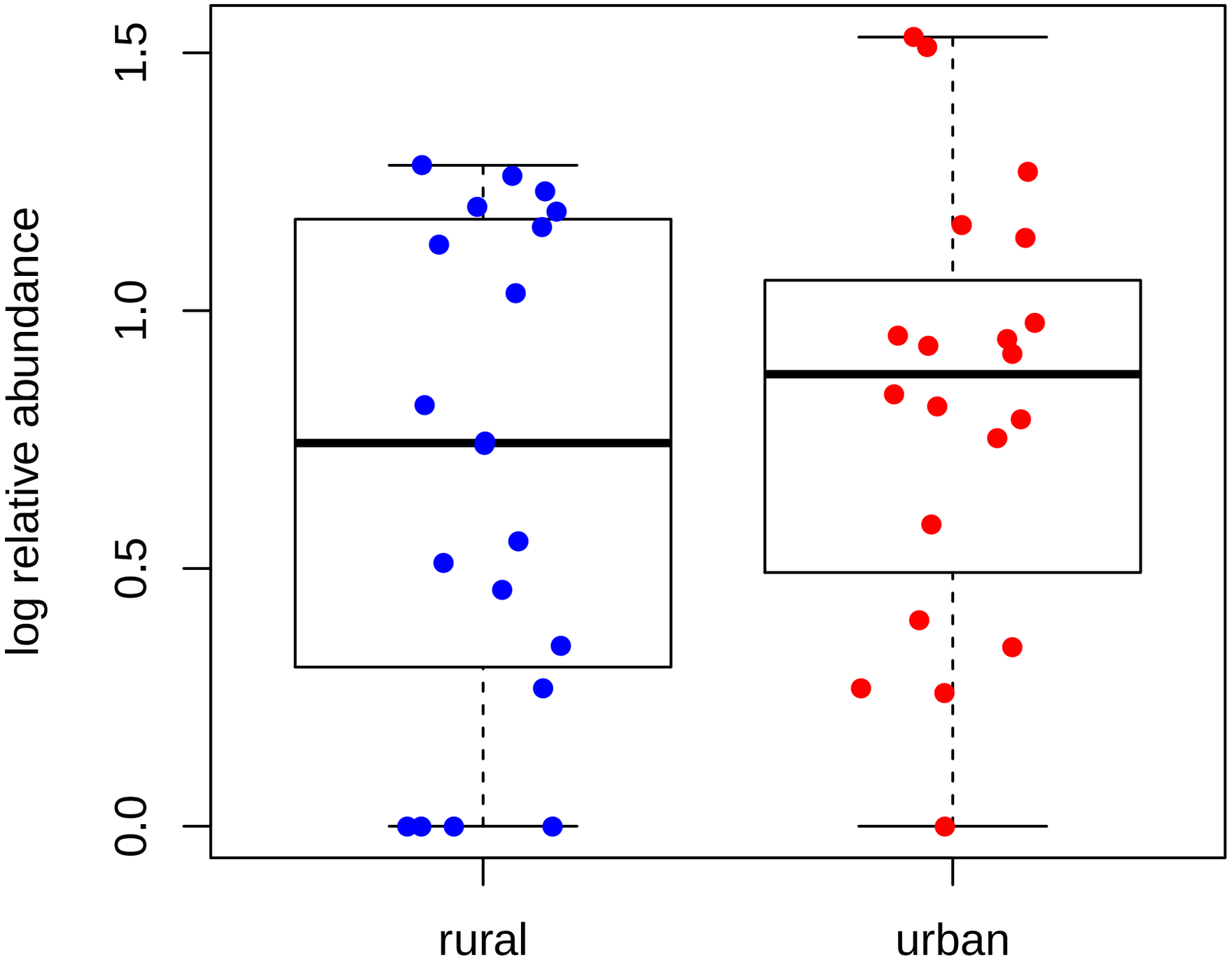

WGS species: Methylobacterium_sp._4.46
pAdjRuralUrban= 0.576
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

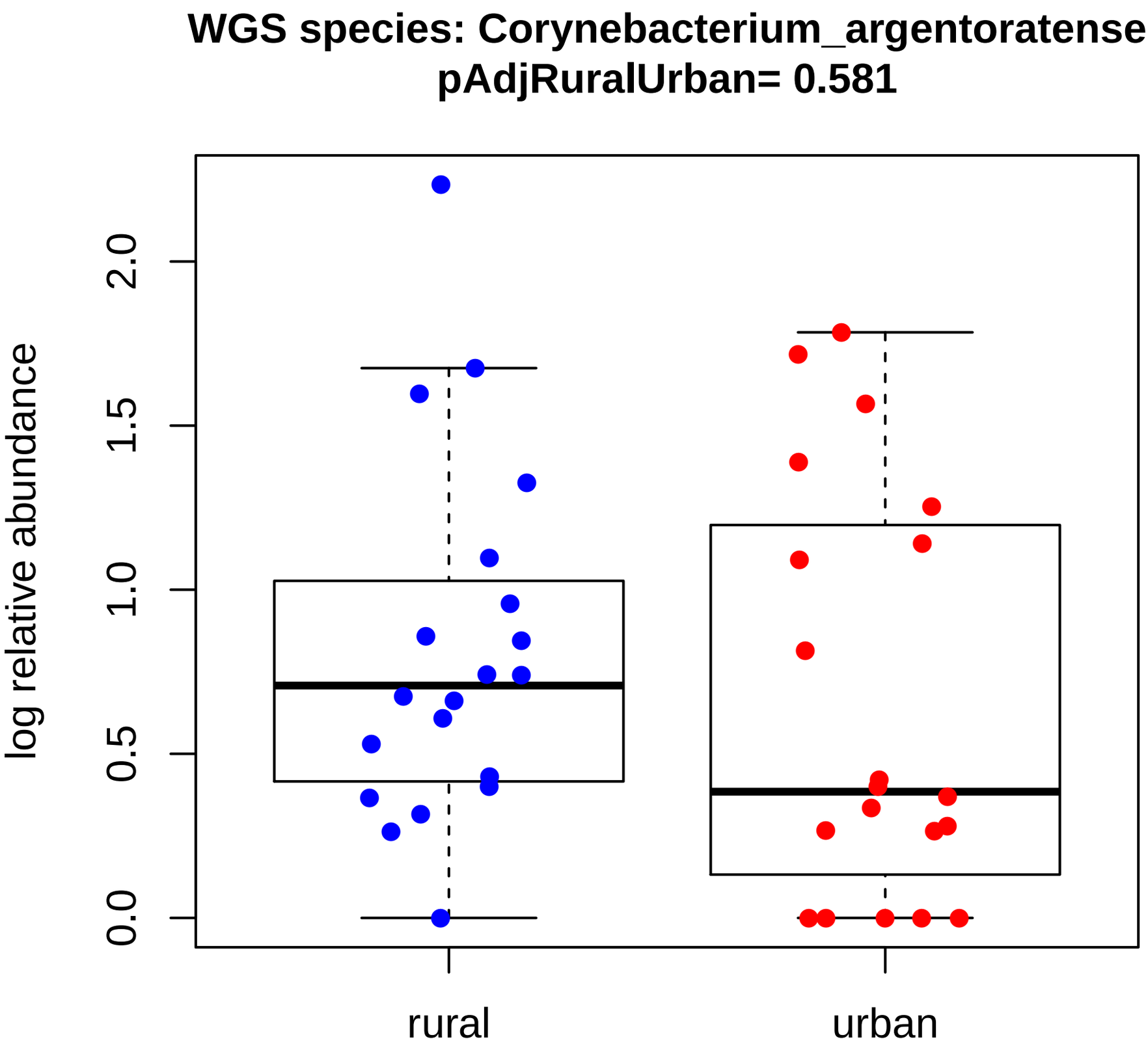

WGS species: Staphylococcus_saprophyticus
pAdjRuralUrban= 0.579
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

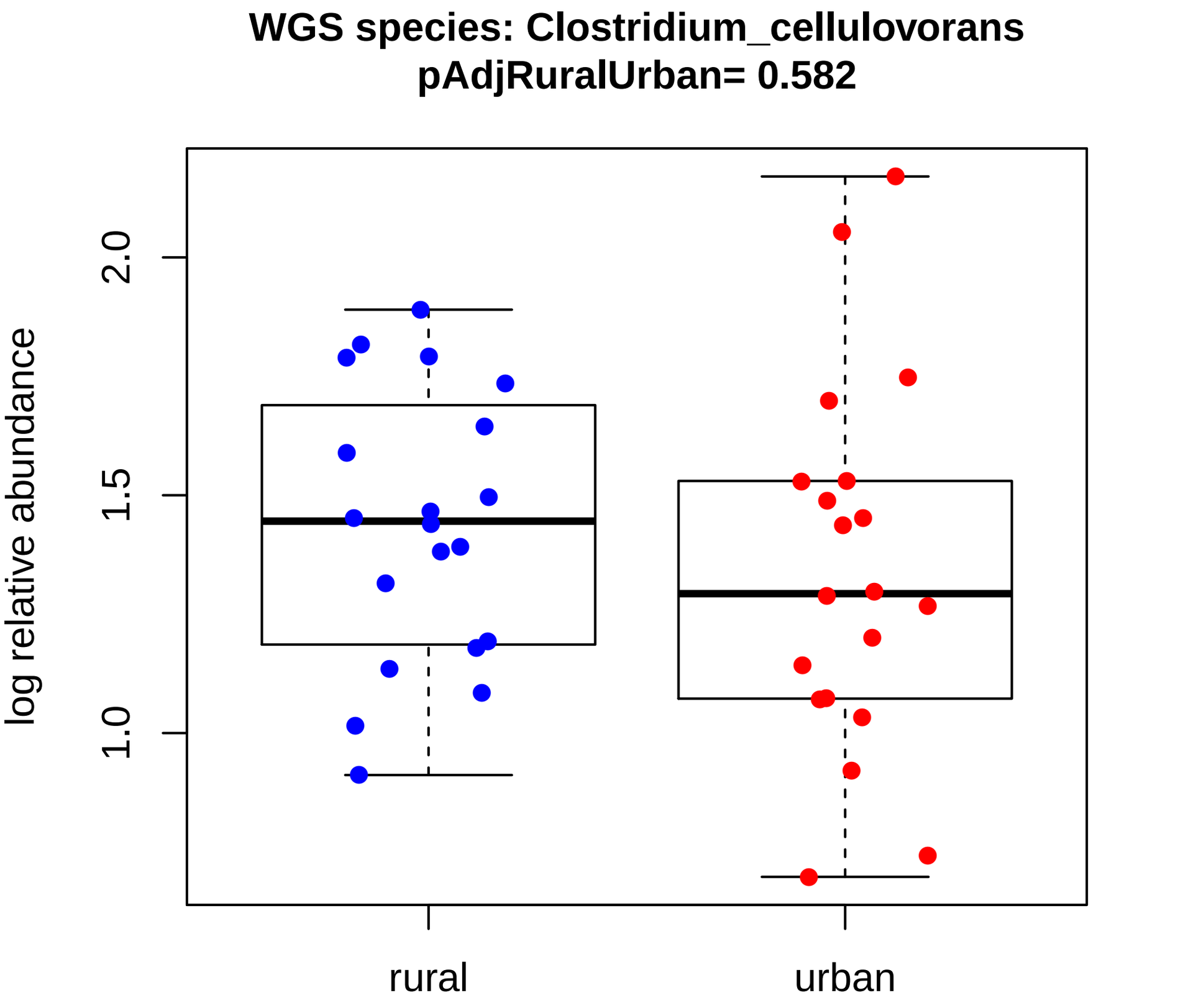

WGS species: Tannerella_forsythia
pAdjRuralUrban= 0.579
log relative abundance
4.0
3.5
3.0
2.5
rural
urban

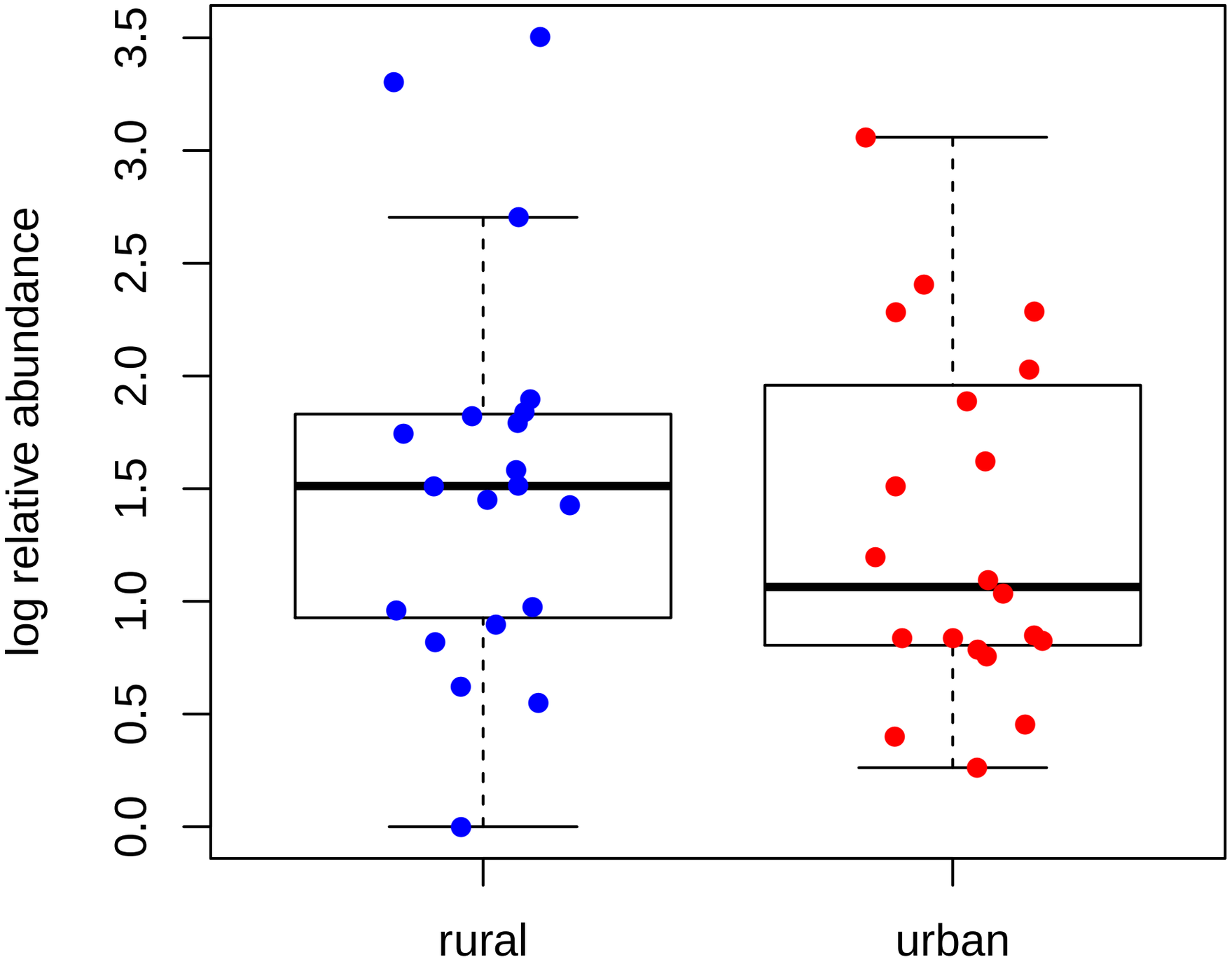

WGS species: Methanoregula_formicica
pAdjRuralUrban= 0.579
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

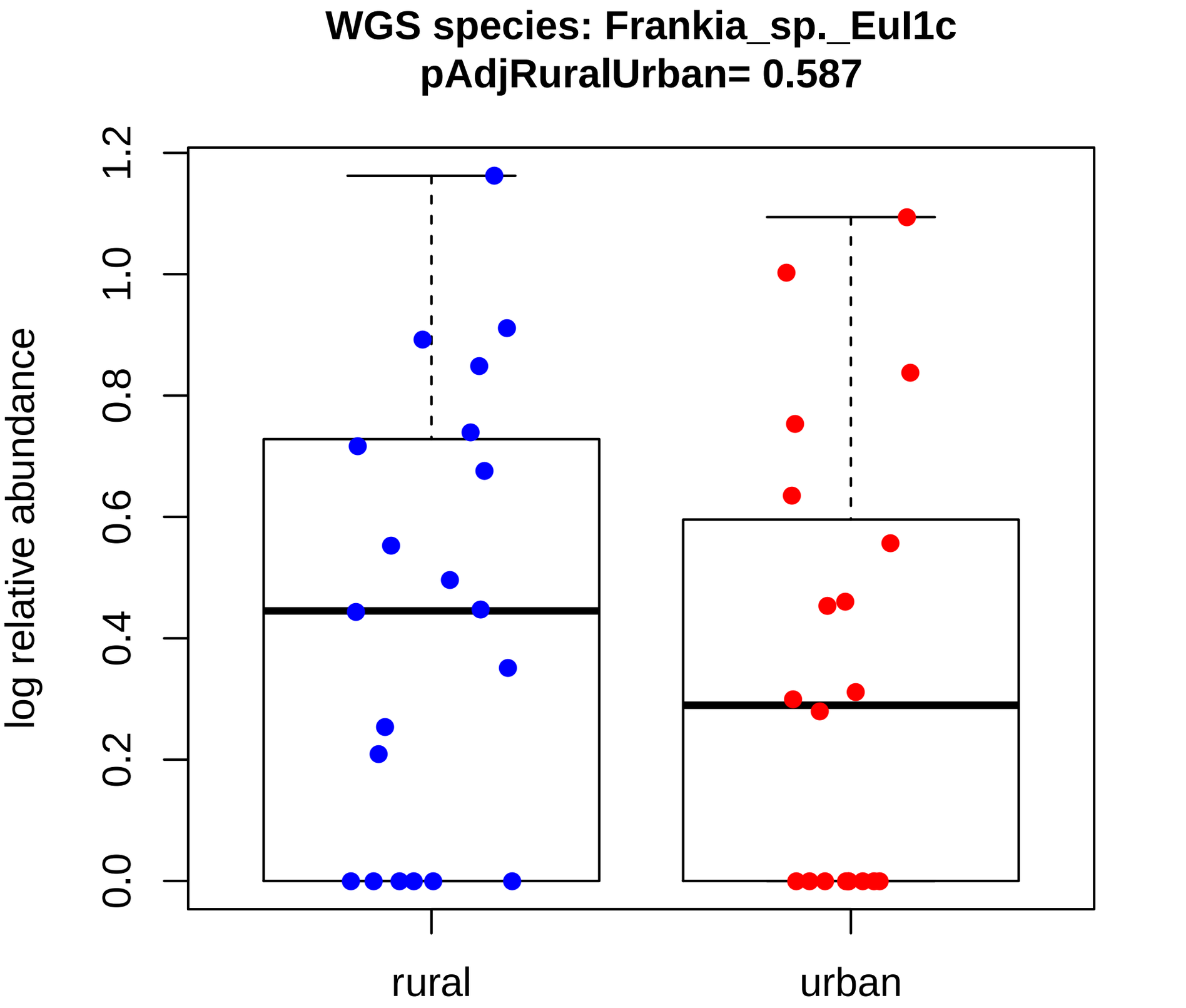

WGS species: Shigella_sonnei
pAdjRuralUrban= 0.581
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

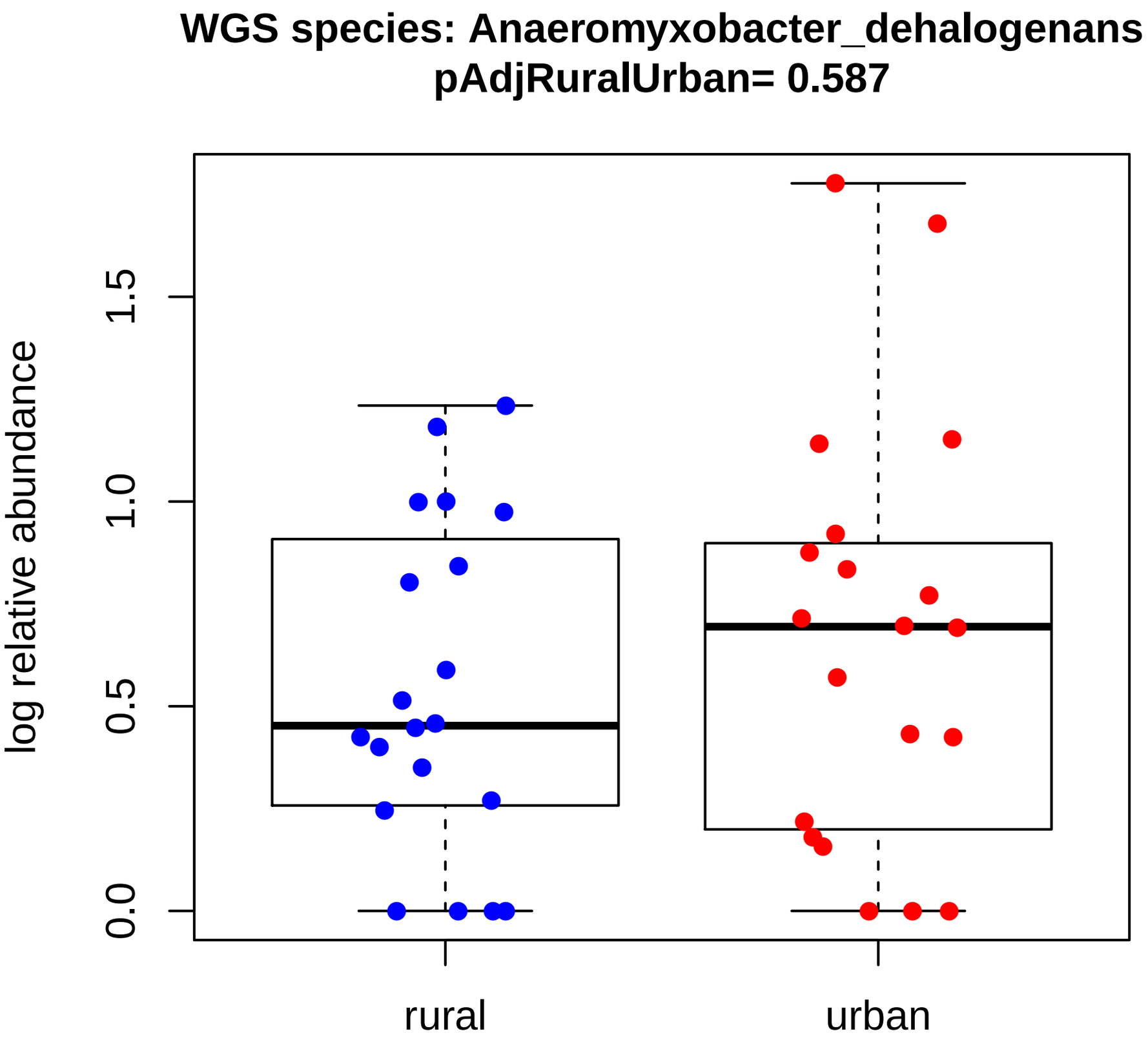

WGS species: Prosthecochloris_aestuarii
pAdjRuralUrban= 0.581
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

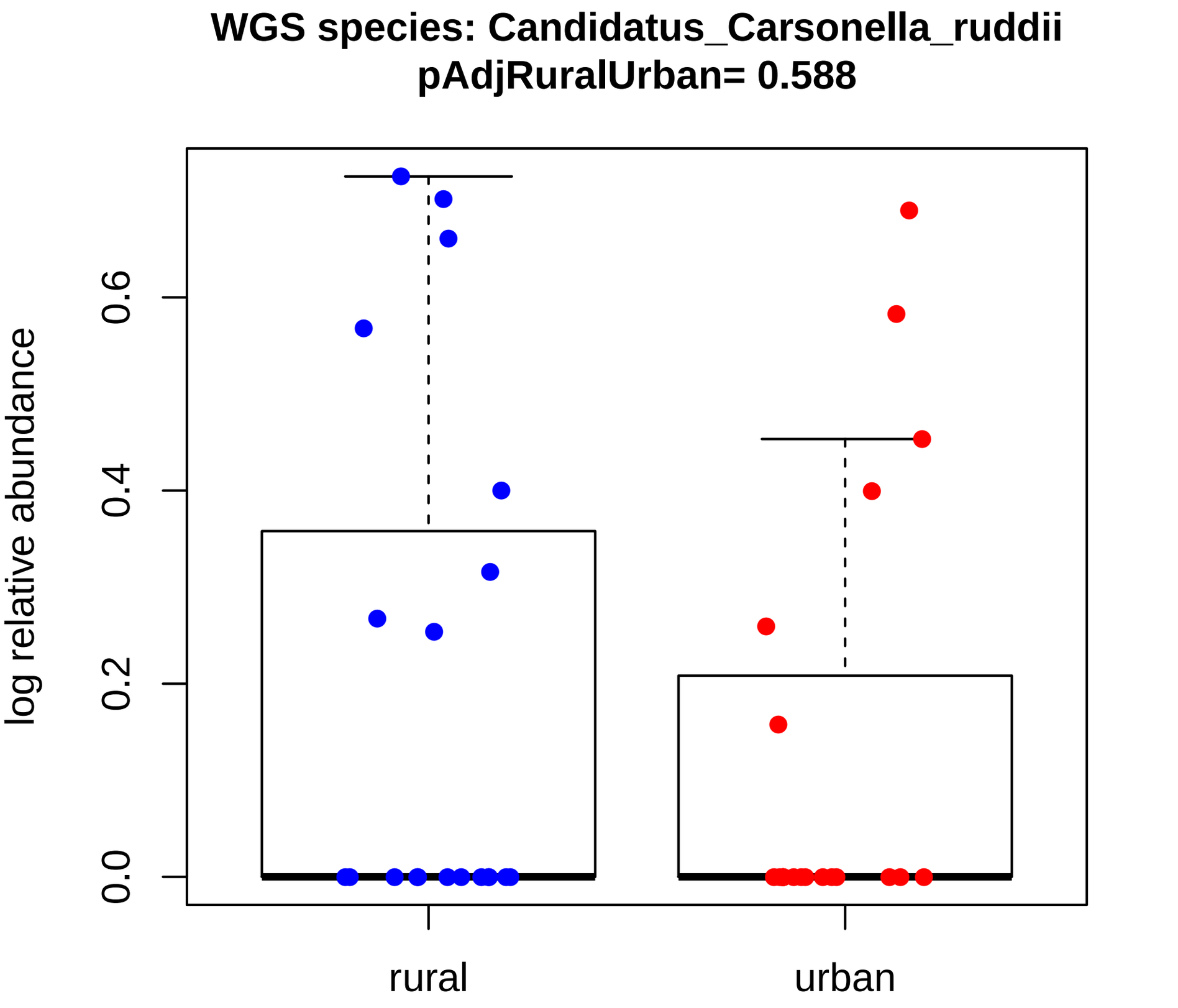

WGS species: Corynebacterium_argentoratense
pAdjRuralUrban= 0.581
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

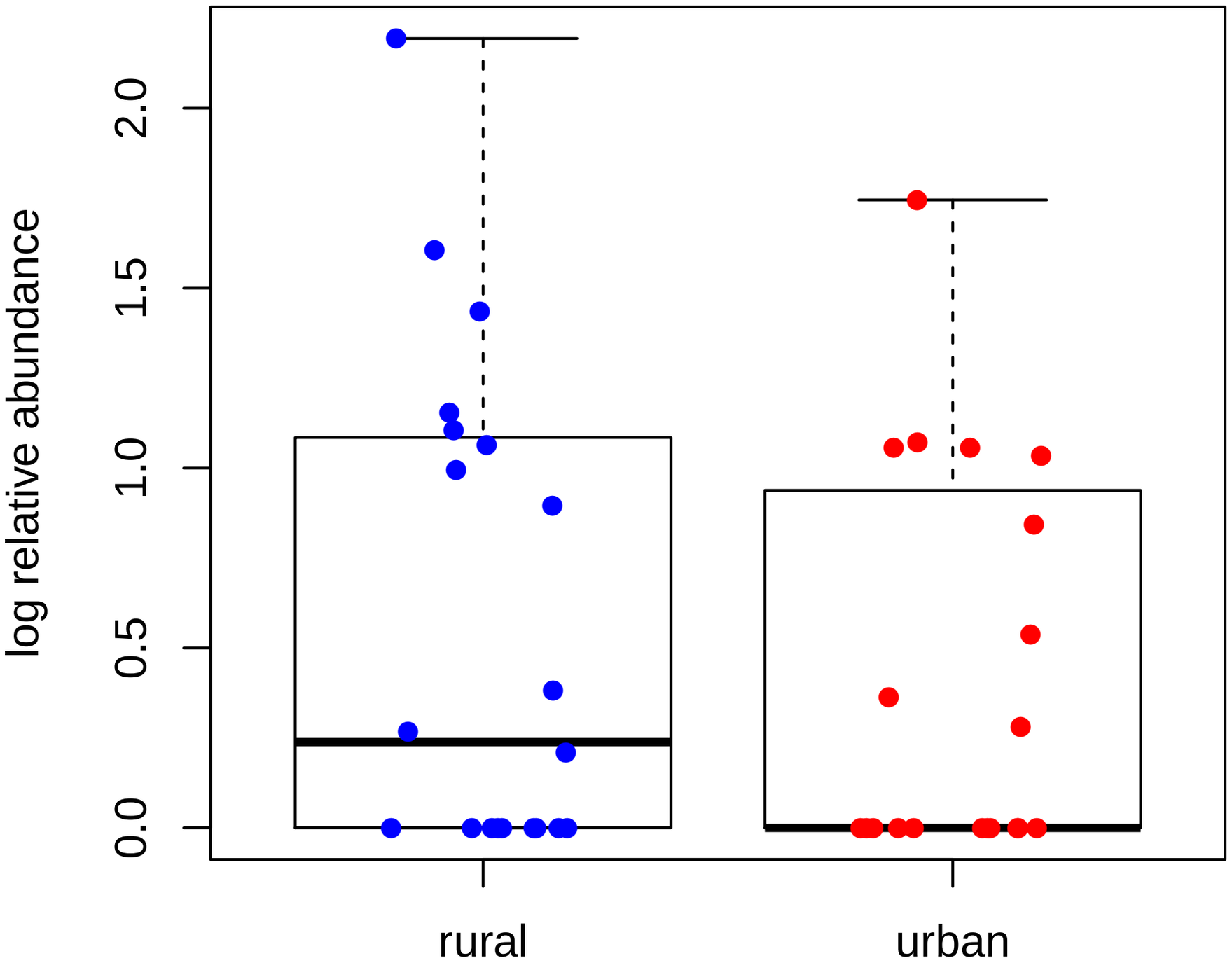

WGS species: Clostridium_cellulovorans
pAdjRuralUrban= 0.582
log relative abundance
1.0
1.5
2.0
rural
urban

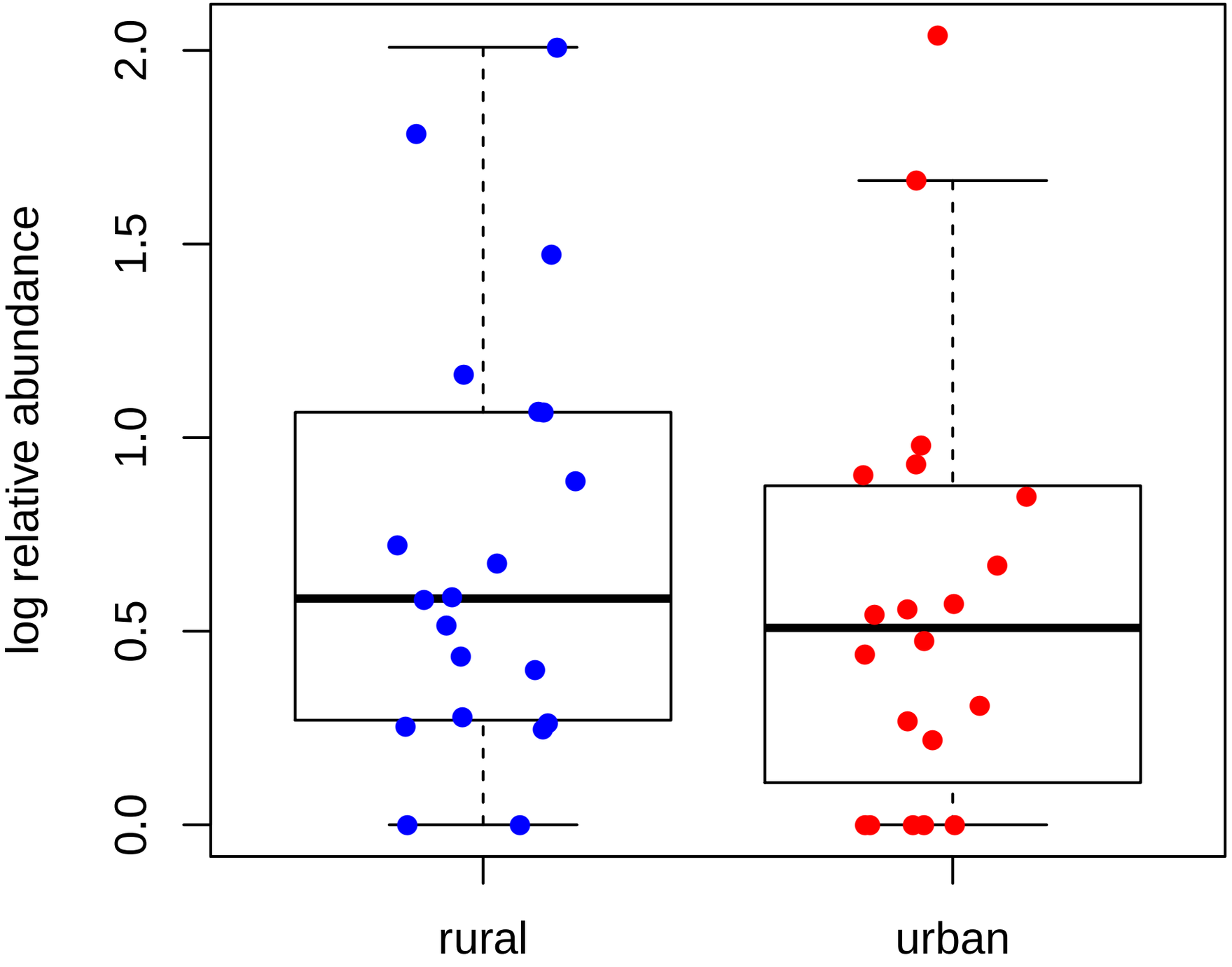

WGS species: Enterobacter_asburiae
pAdjRuralUrban= 0.586
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

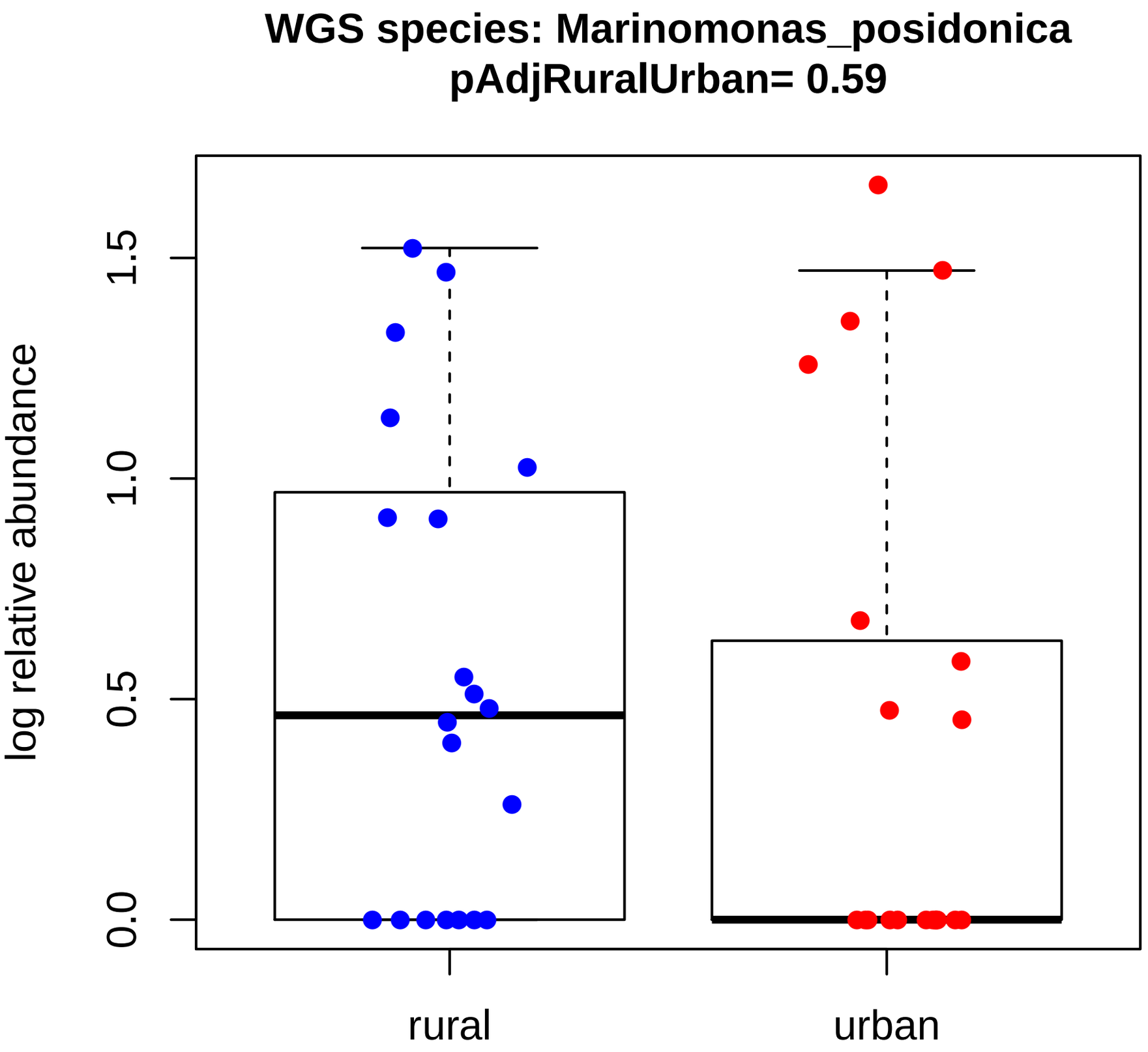

WGS species: Frankia_sp._EuI1c
pAdjRuralUrban= 0.587
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

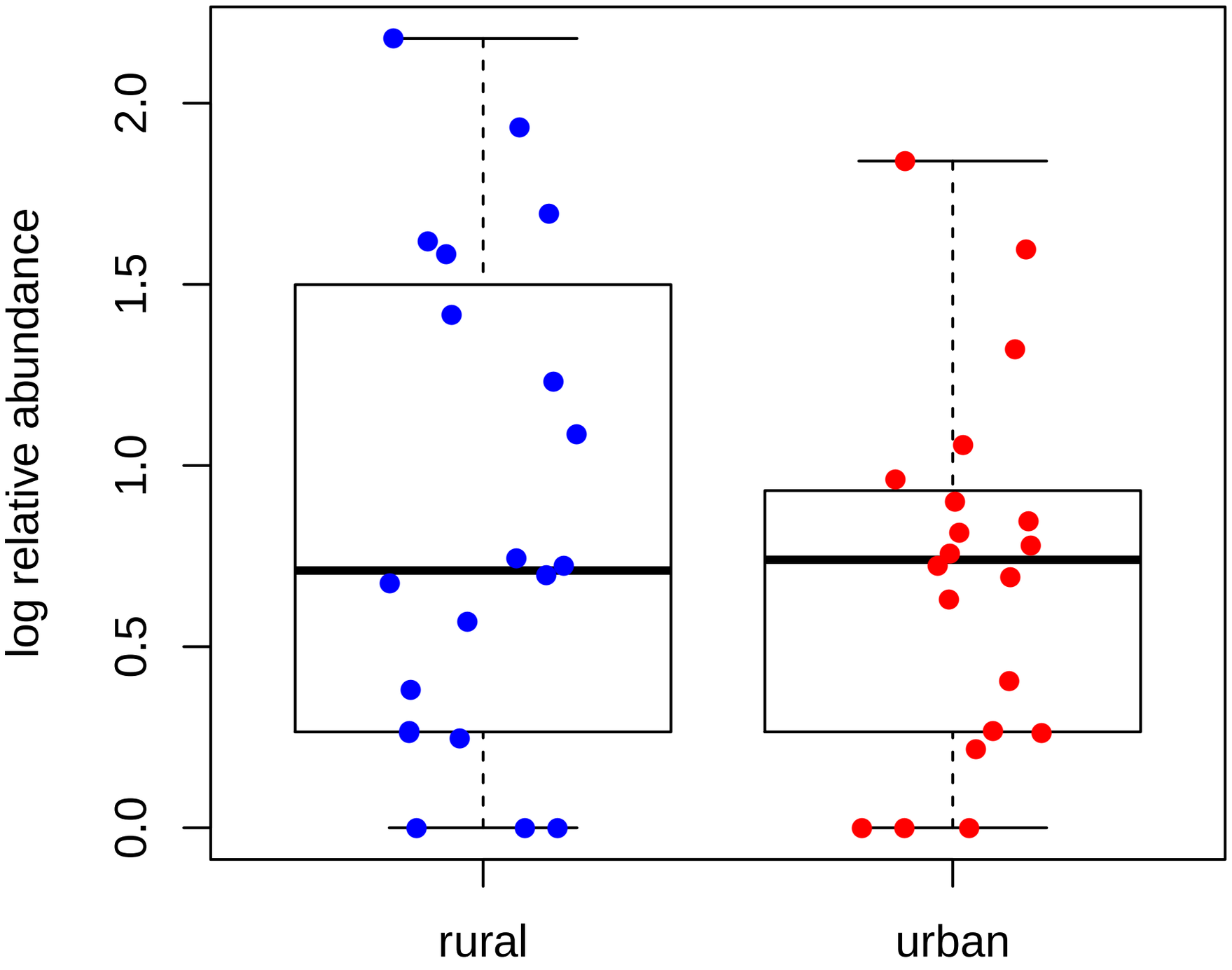

WGS species: Anaeromyxobacter_dehalogenans
pAdjRuralUrban= 0.587
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

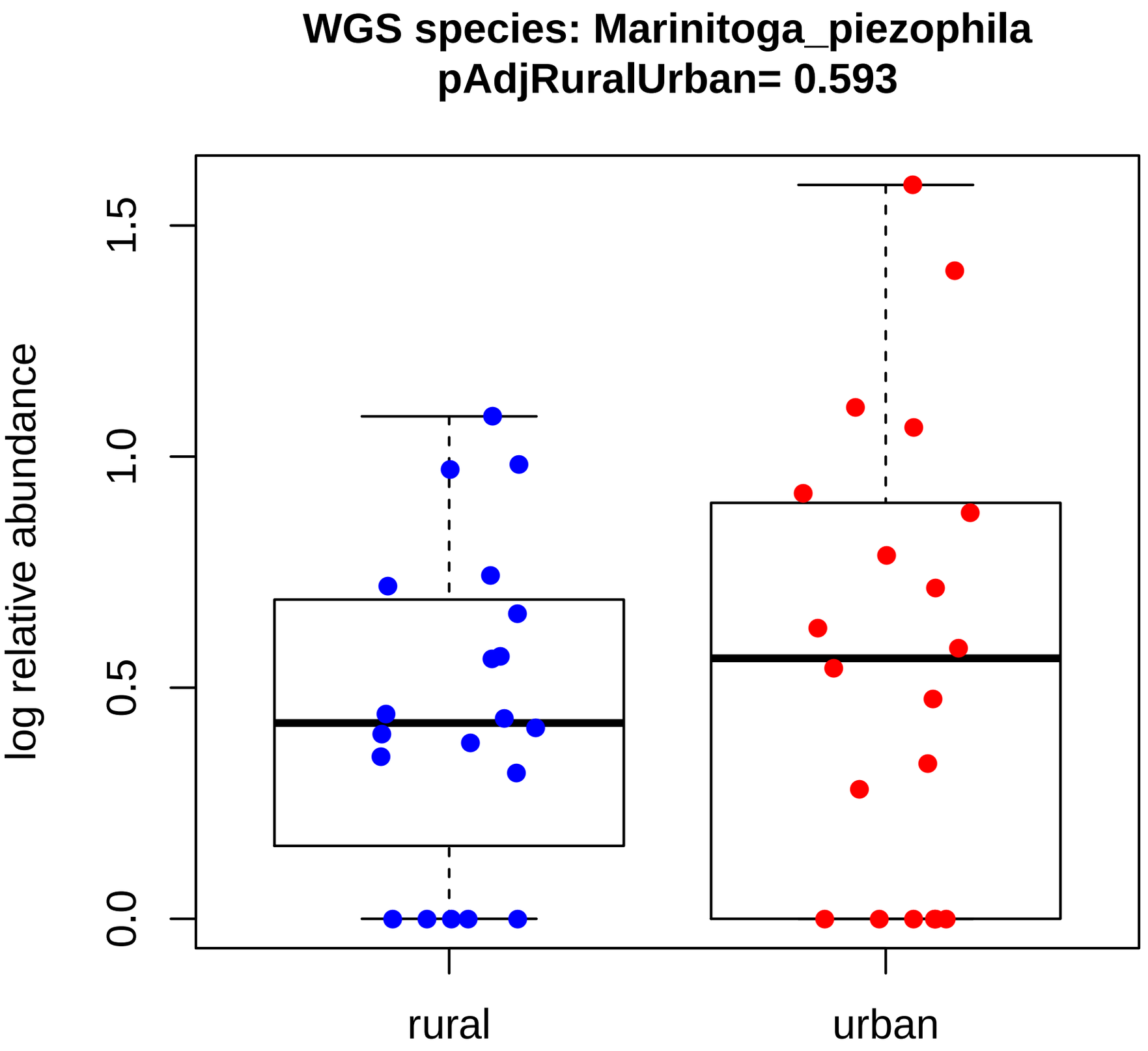

WGS species: Candidatus_Carsonella_ruddii
pAdjRuralUrban= 0.588
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

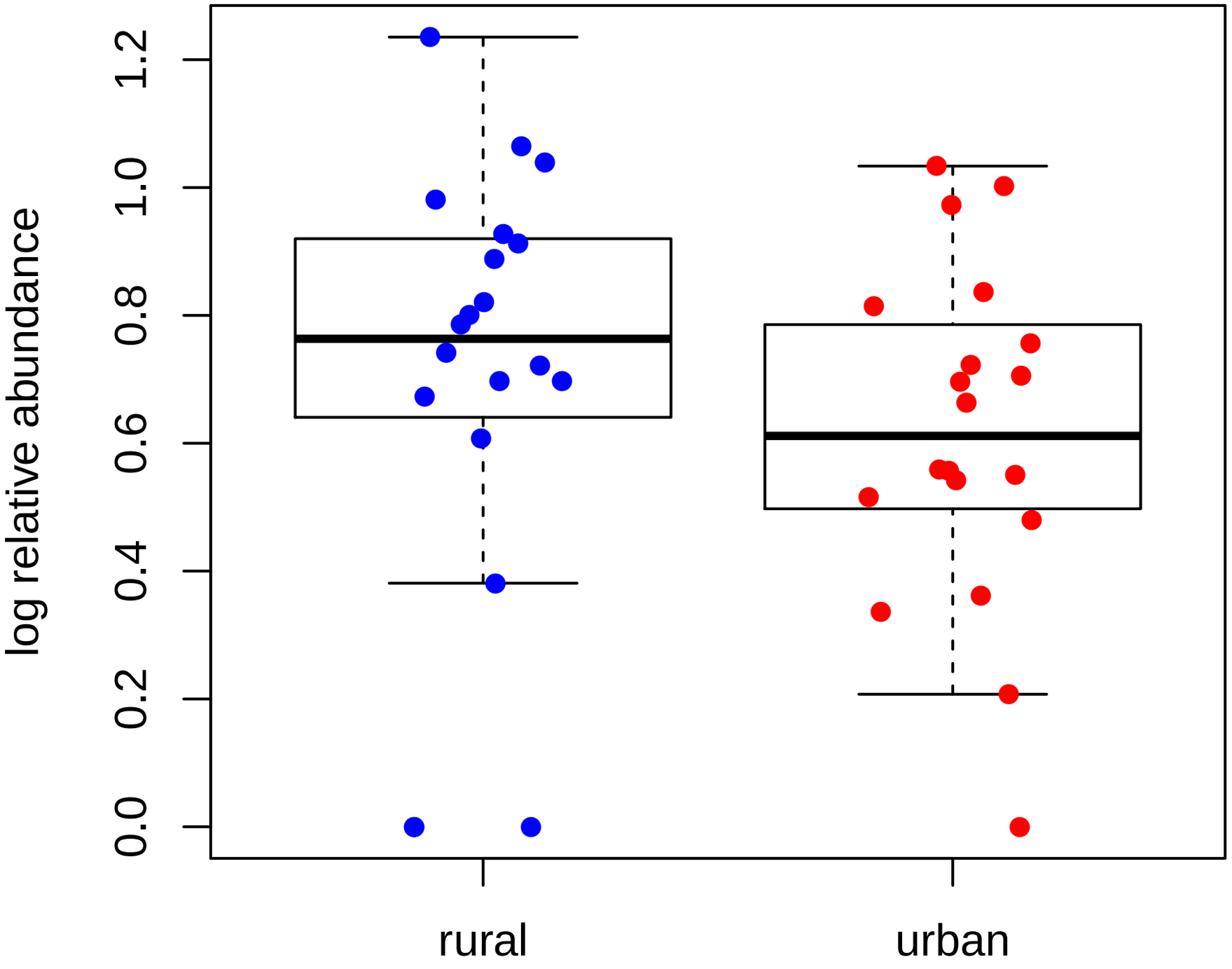

WGS species: Pectobacterium_sp._SCC3193
pAdjRuralUrban= 0.588
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

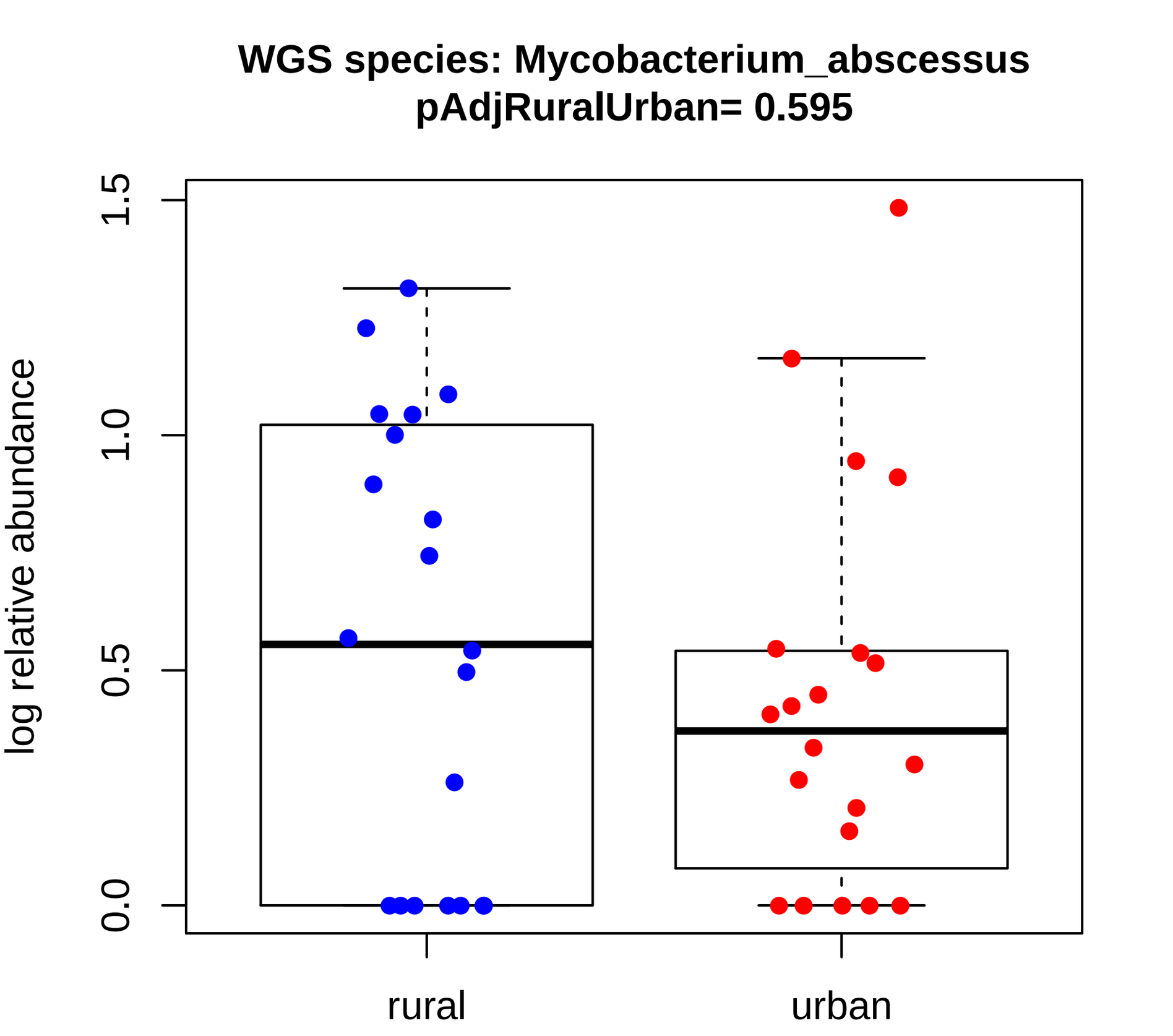

WGS species: Serratia_liquefaciens
pAdjRuralUrban= 0.59
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

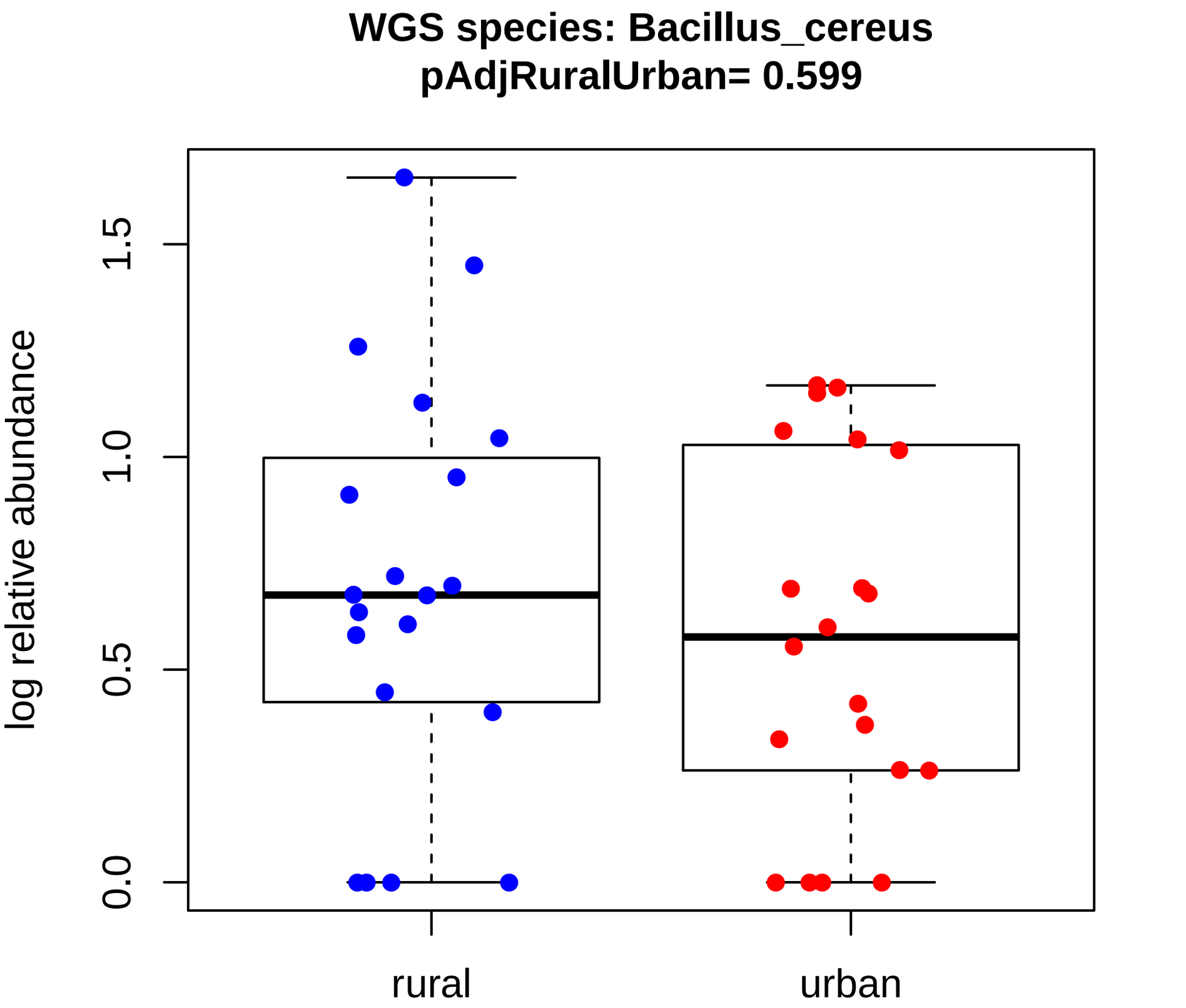

WGS species: Marinomonas_posidonica
pAdjRuralUrban= 0.59
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

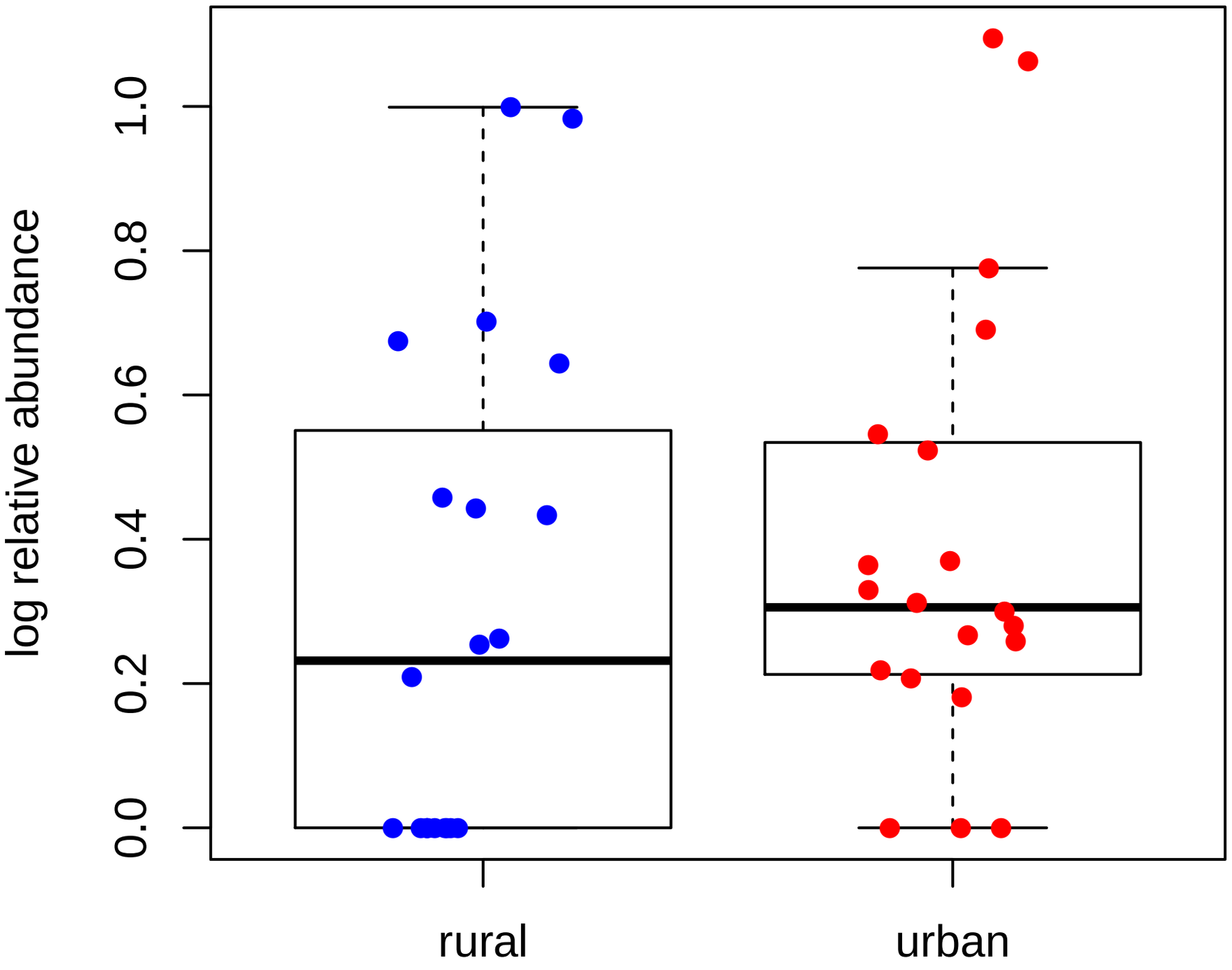

WGS species: Rahnella_aquatilis
pAdjRuralUrban= 0.592
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

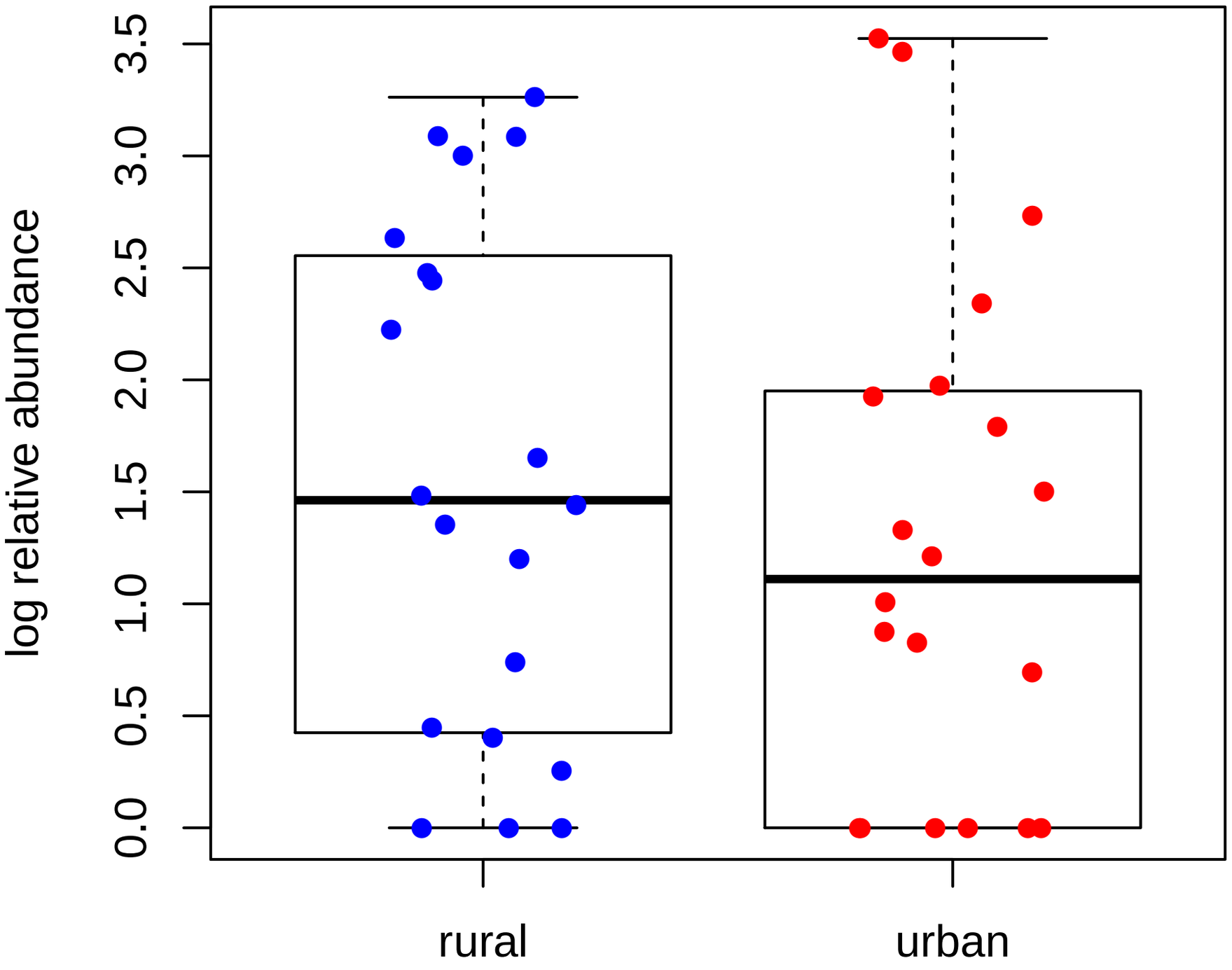

WGS species: Marinitoga_piezophila
pAdjRuralUrban= 0.593
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

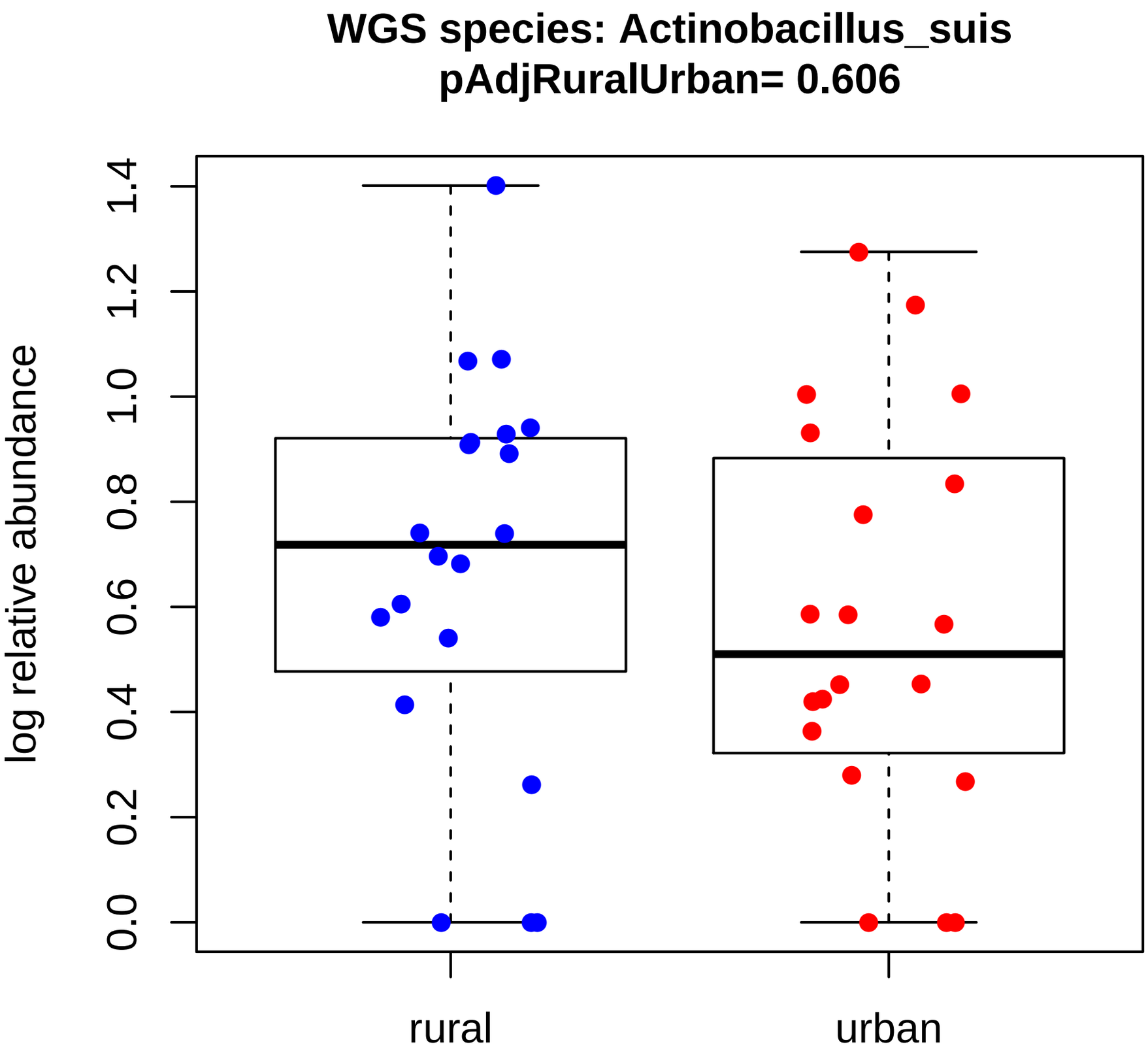

WGS species: Paenibacillus_larvae
pAdjRuralUrban= 0.593
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

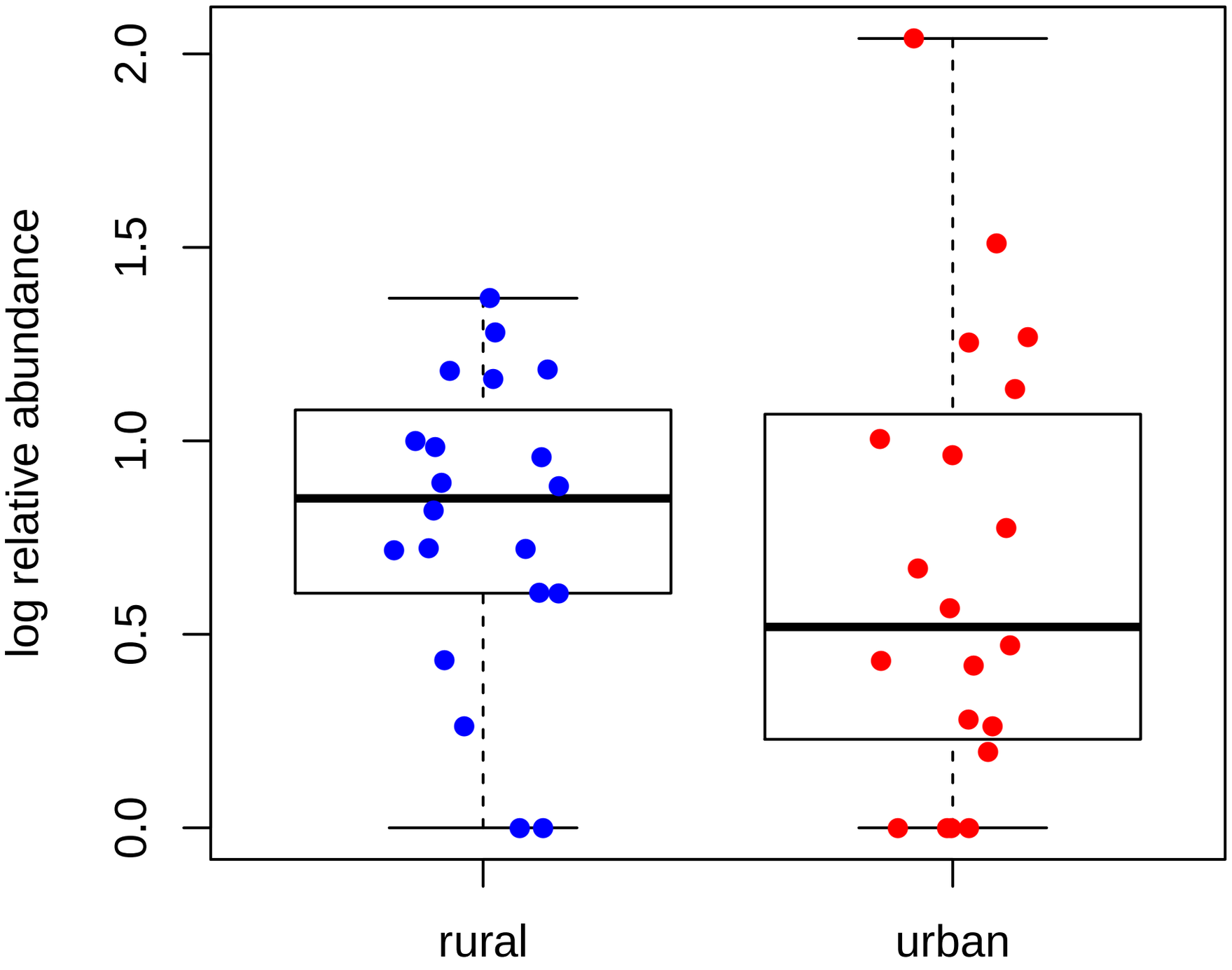

WGS species: Mycobacterium_abscessus
pAdjRuralUrban= 0.595
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

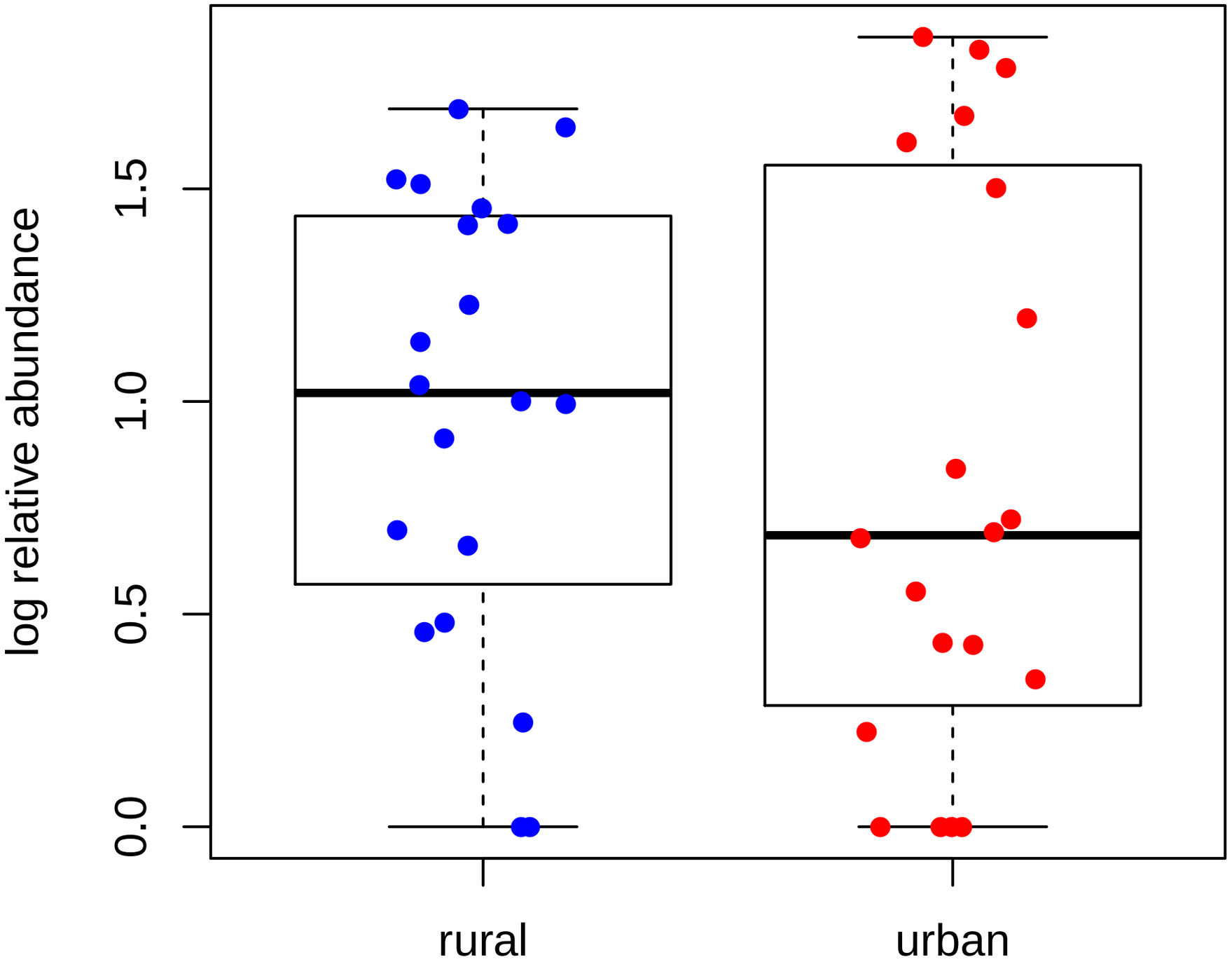

WGS species: Bacillus_cereus
pAdjRuralUrban= 0.599
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

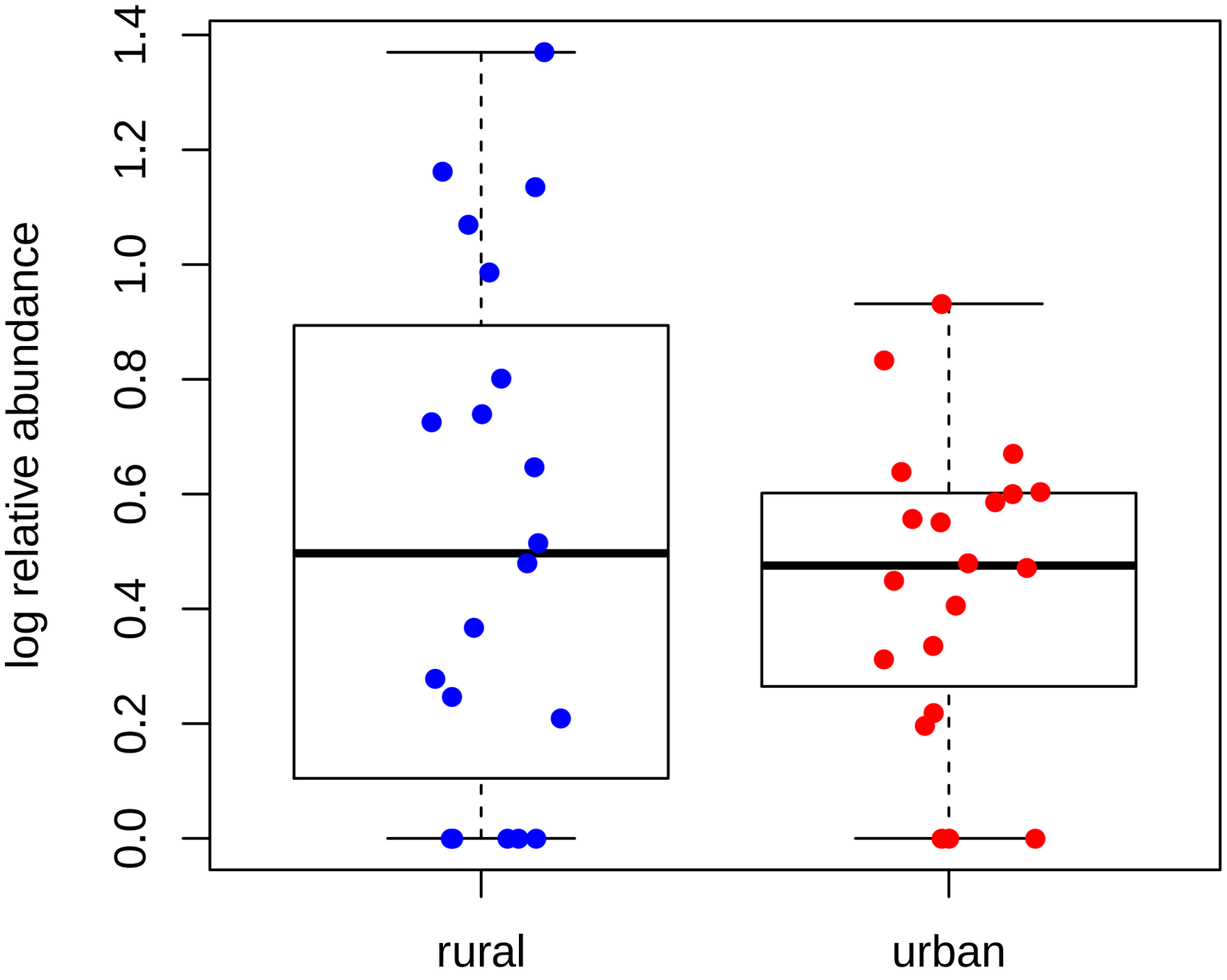

WGS species: Anoxybacillus_flavithermus
pAdjRuralUrban= 0.606
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

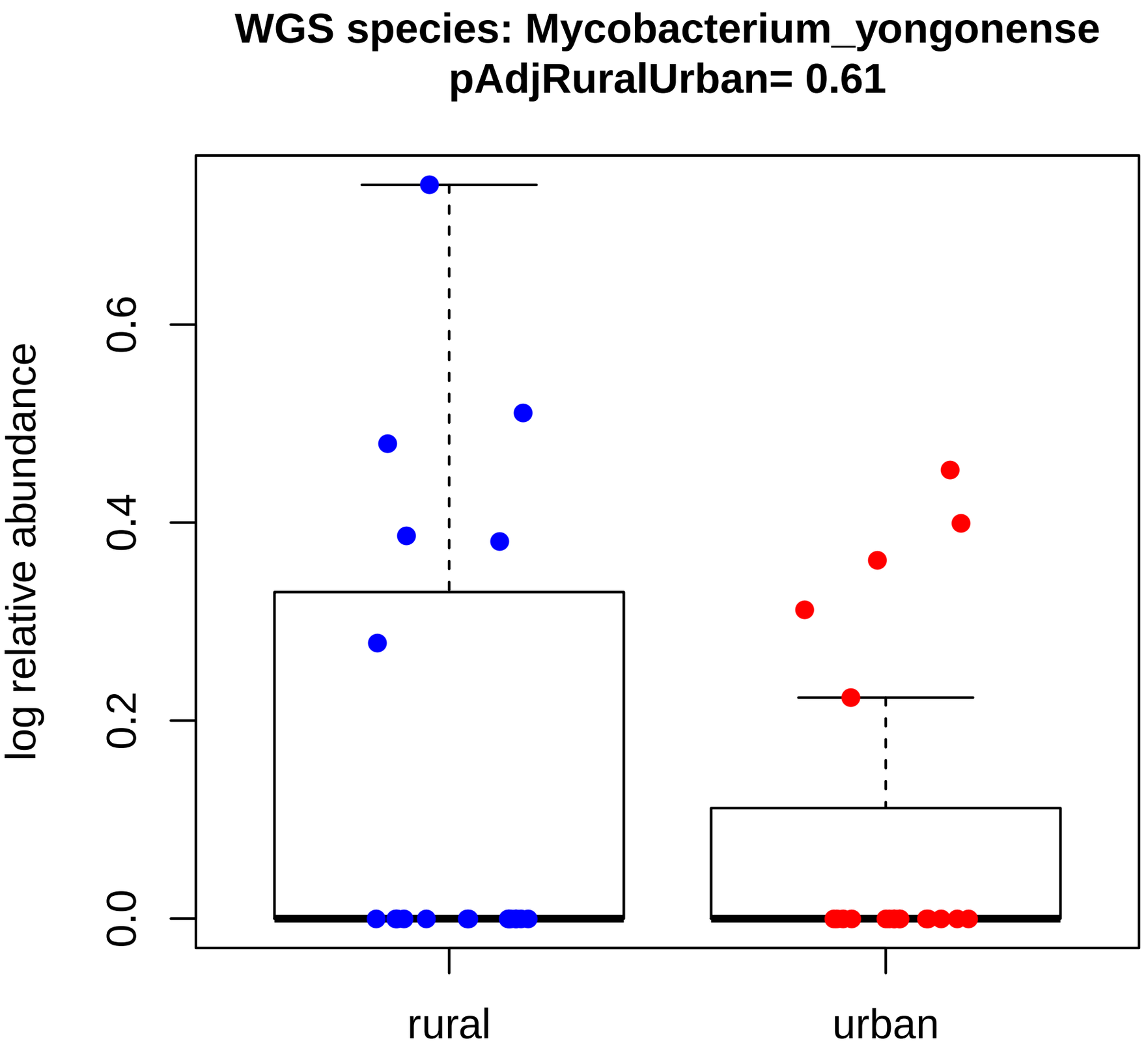

WGS species: Klebsiella_variicola
pAdjRuralUrban= 0.606
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

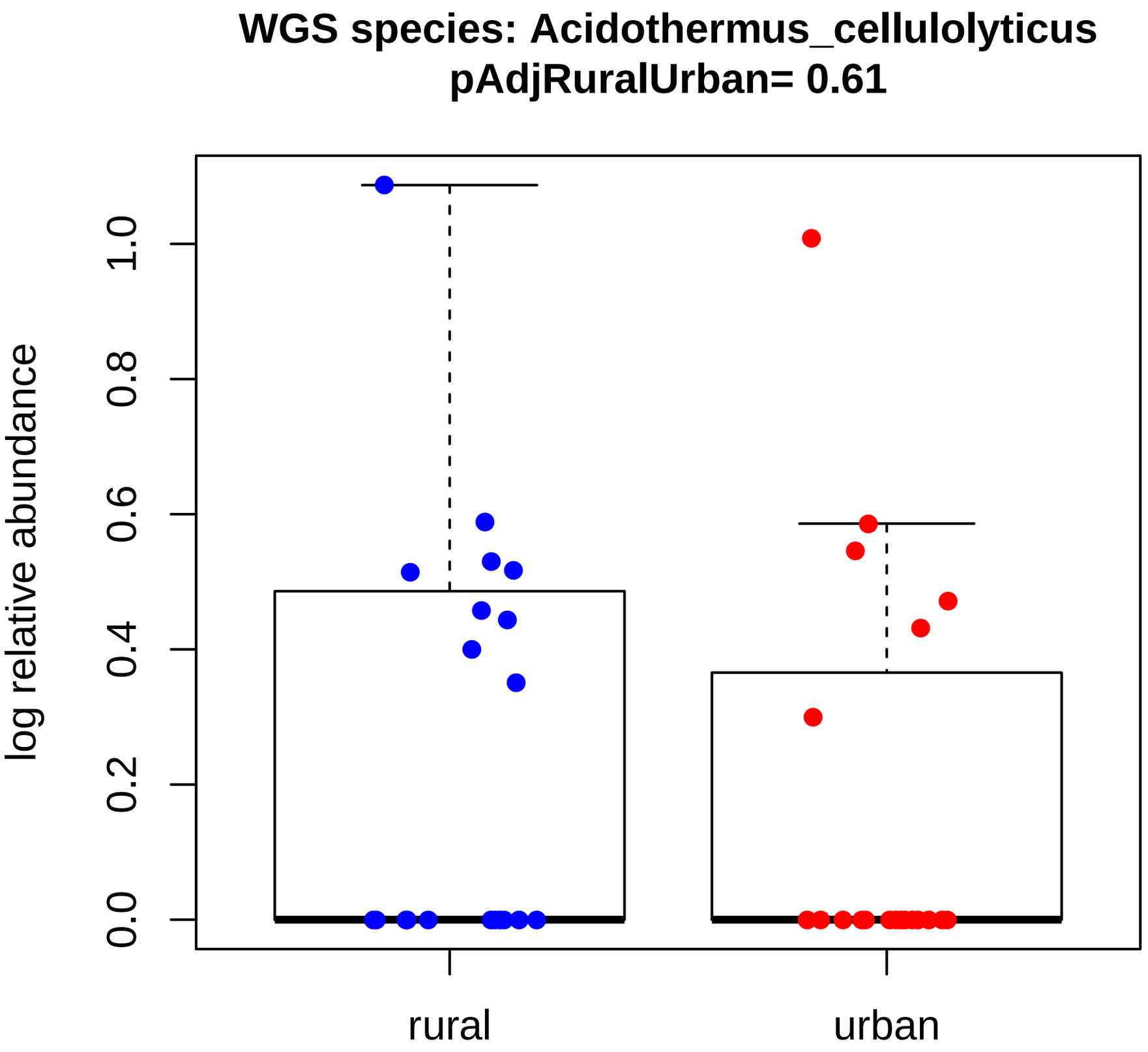

WGS species: Actinobacillus_suis
pAdjRuralUrban= 0.606
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

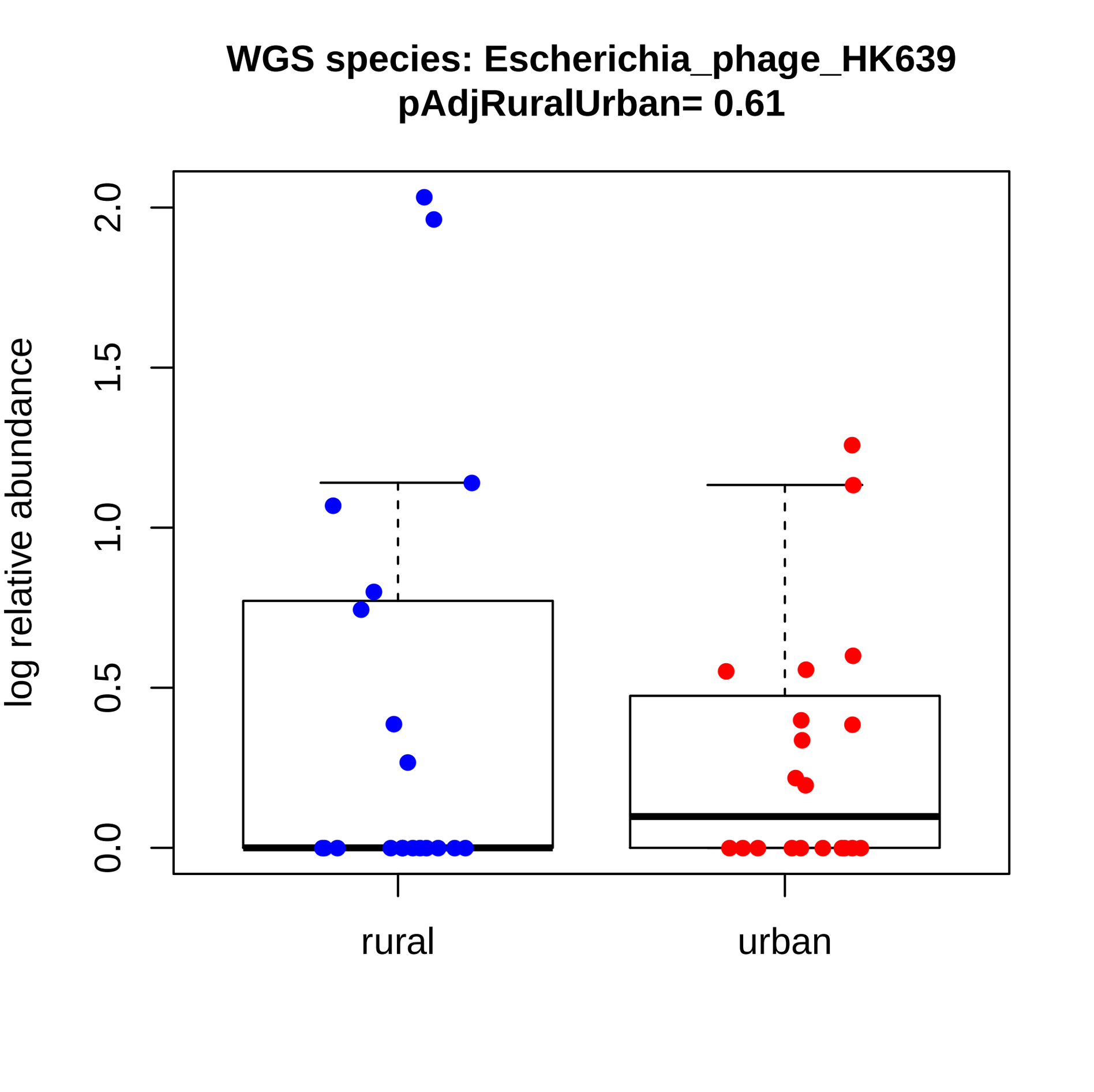

WGS species: Phycisphaera_mikurensis
pAdjRuralUrban= 0.609
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

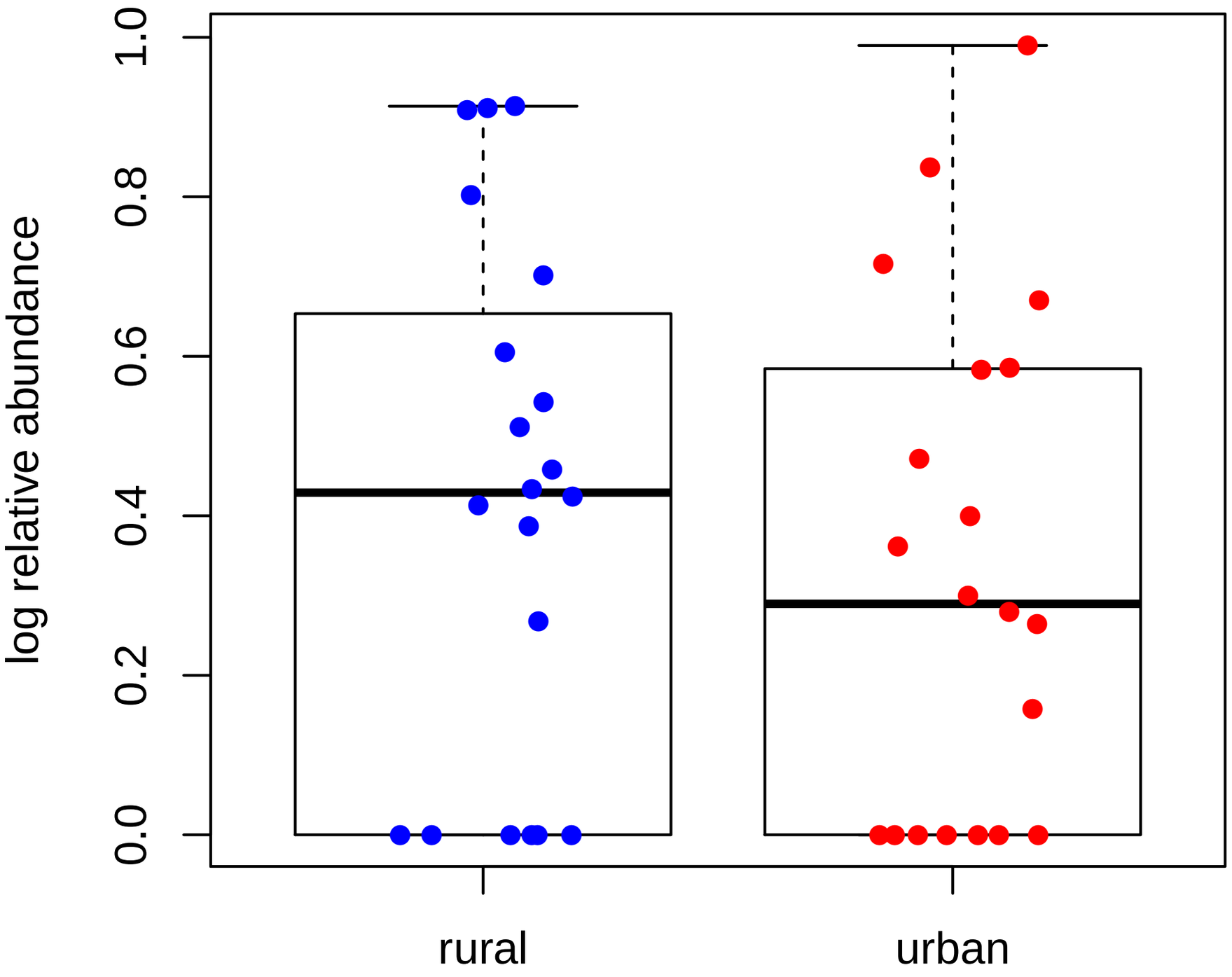

WGS species: Collimonas_fungivorans
pAdjRuralUrban= 0.609
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

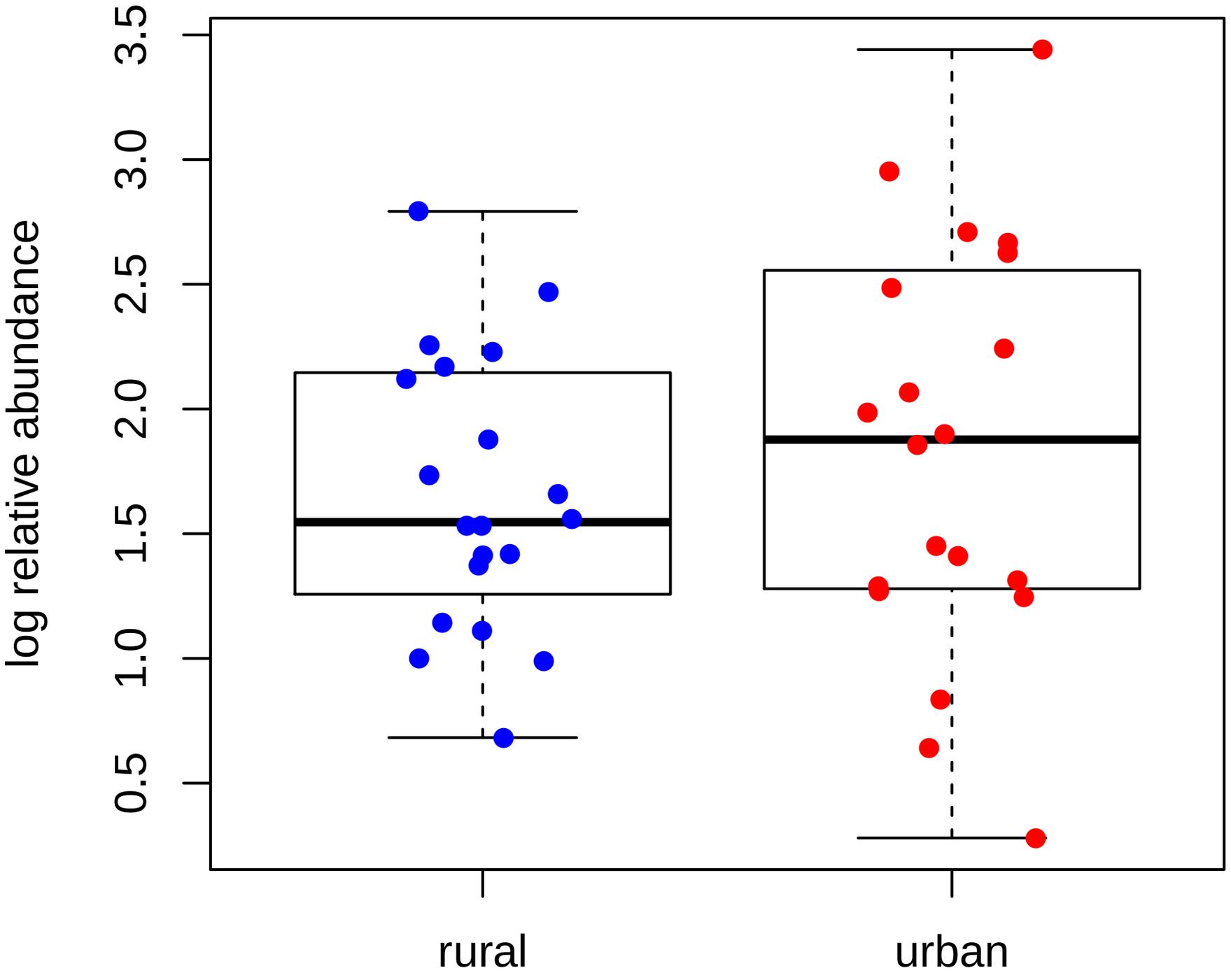

WGS species: Spirochaeta_smaragdinae
pAdjRuralUrban= 0.61
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

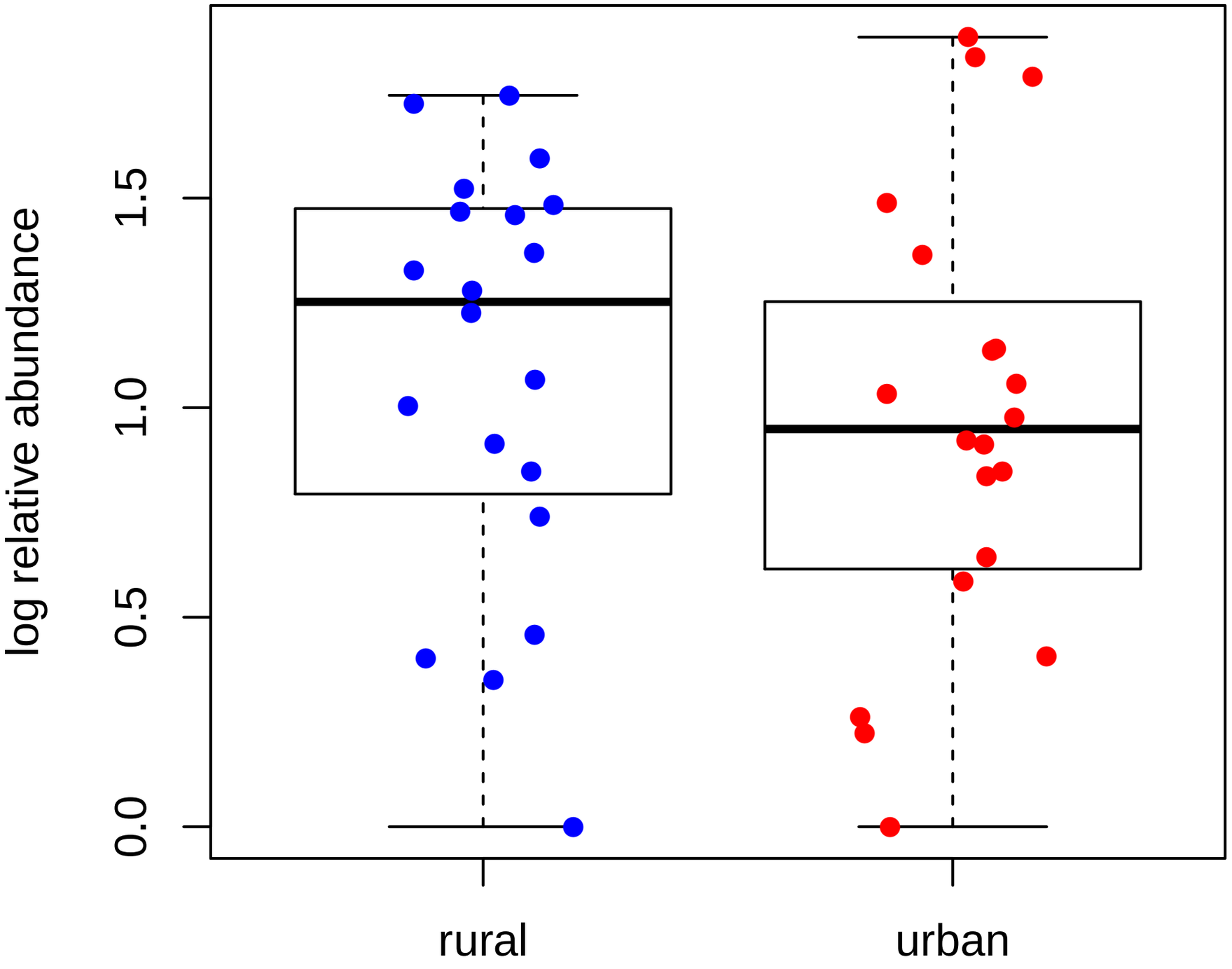

WGS species: Mycobacterium_yongonense
pAdjRuralUrban= 0.61
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

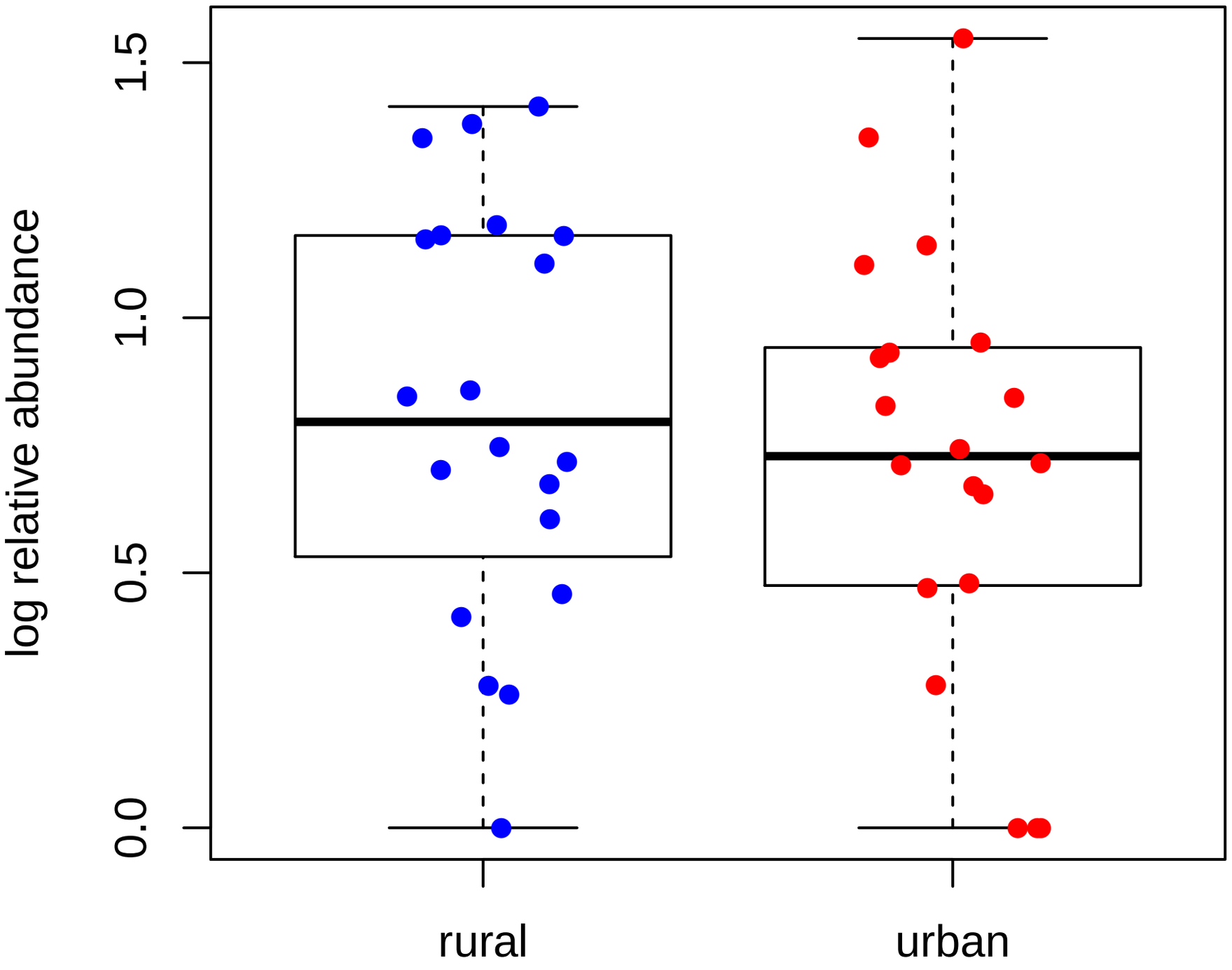

WGS species: Acidothermus_cellulolyticus
pAdjRuralUrban= 0.61
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

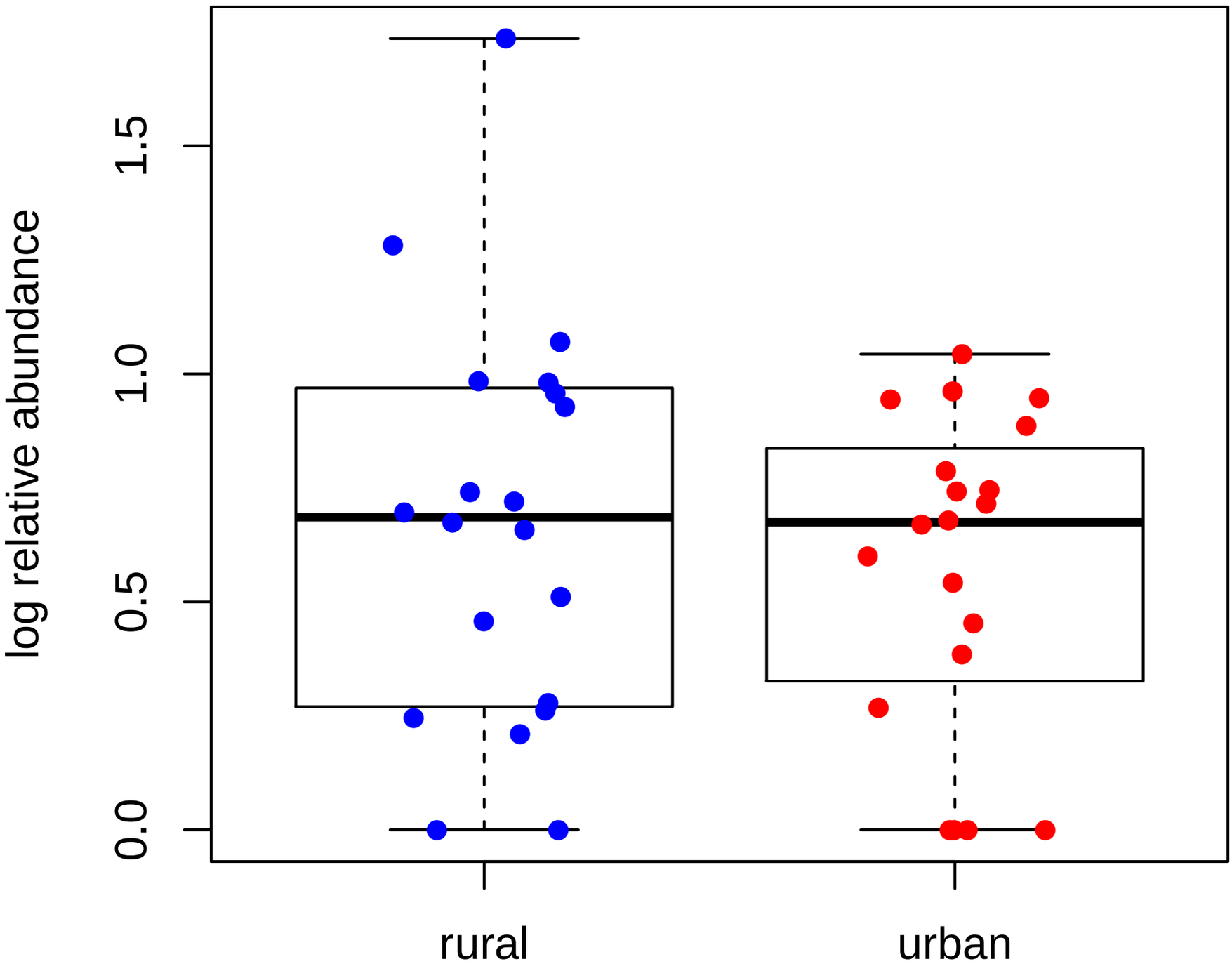

WGS species: Escherichia_phage_HK639
pAdjRuralUrban= 0.61
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

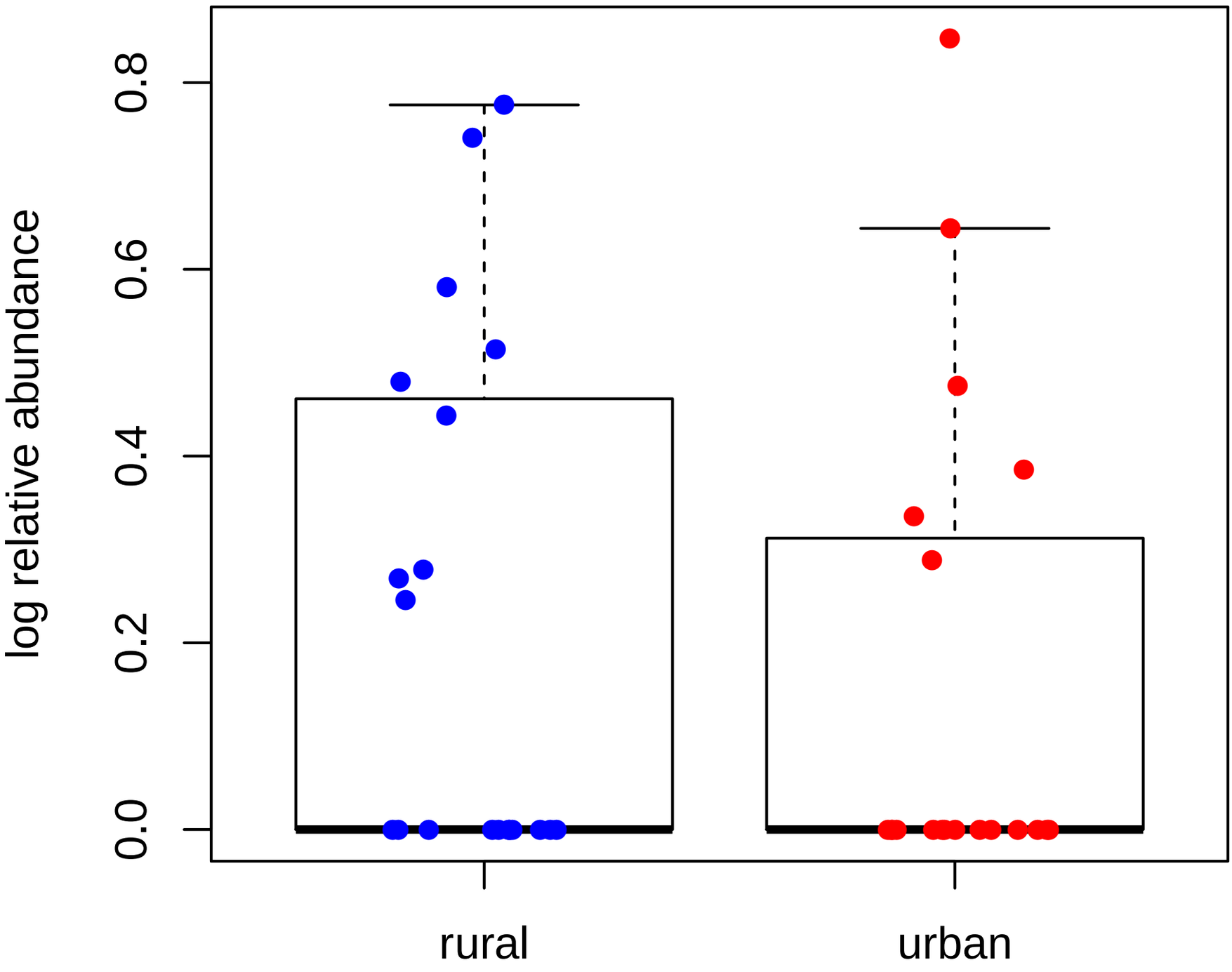

WGS species: Haemophilus_ducreyi
pAdjRuralUrban= 0.61
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

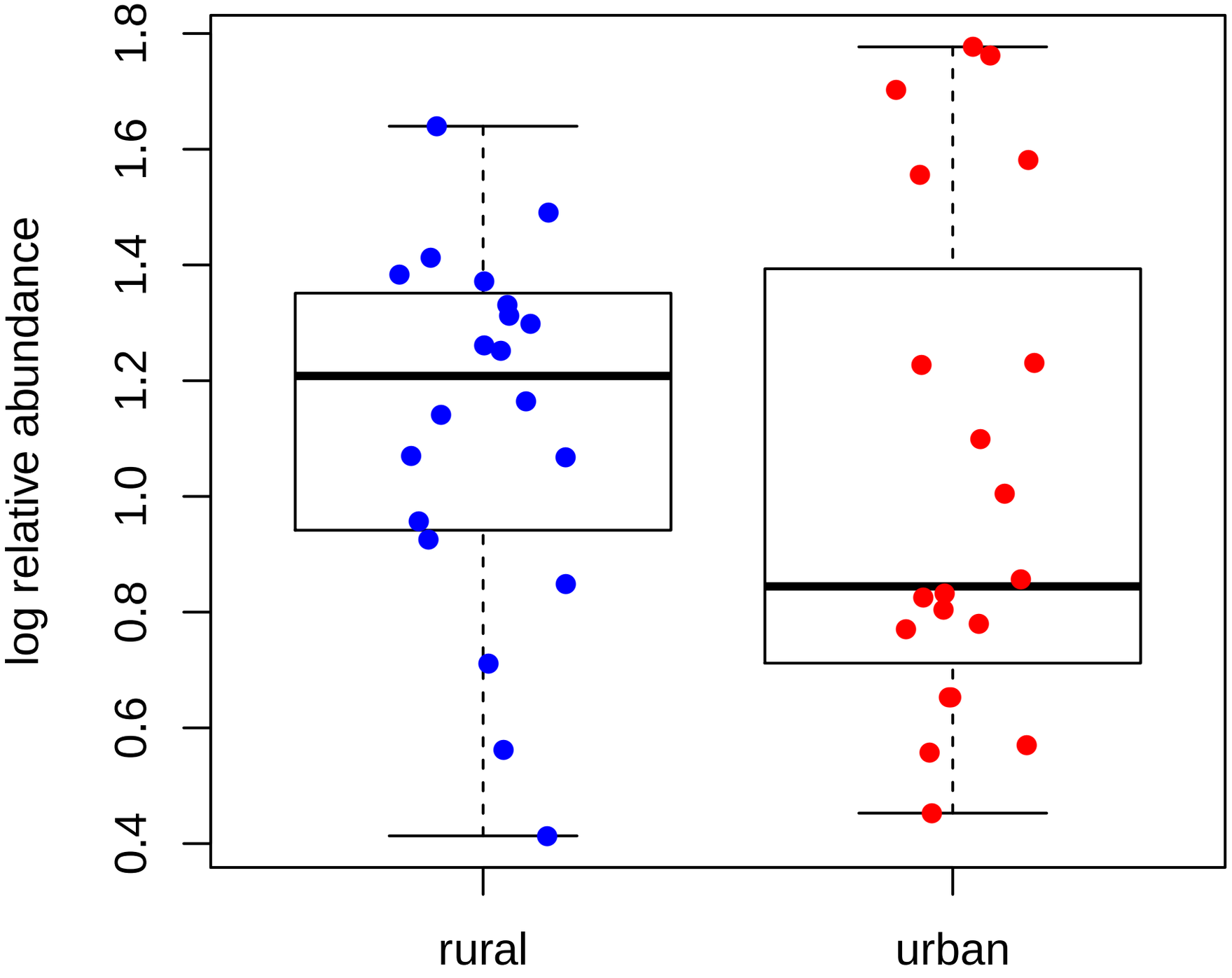

WGS species: Fusobacterium_nucleatum
pAdjRuralUrban= 0.61
log relative abundance
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

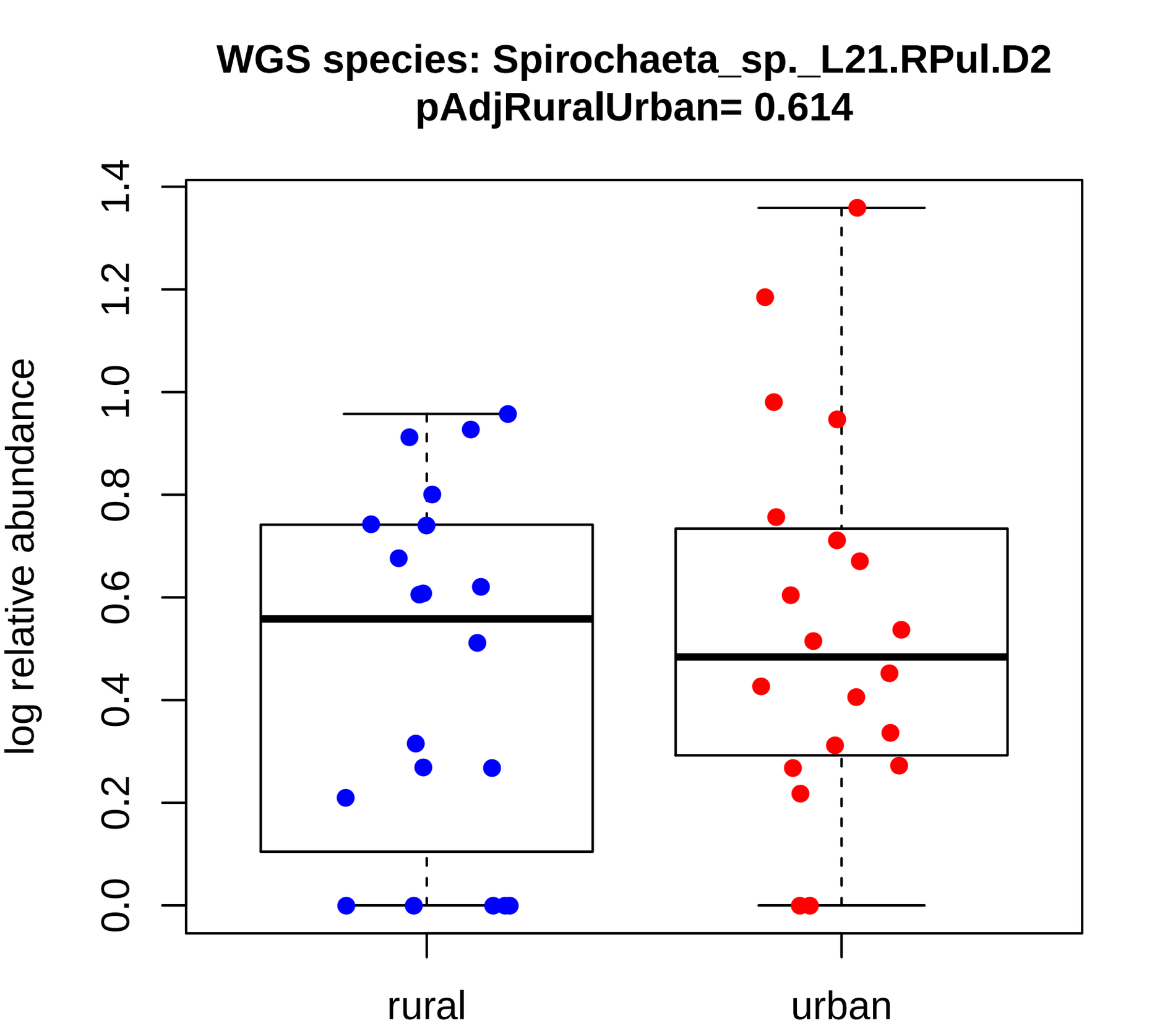

WGS species: Vibrio_nigripulchritudo
pAdjRuralUrban= 0.611
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

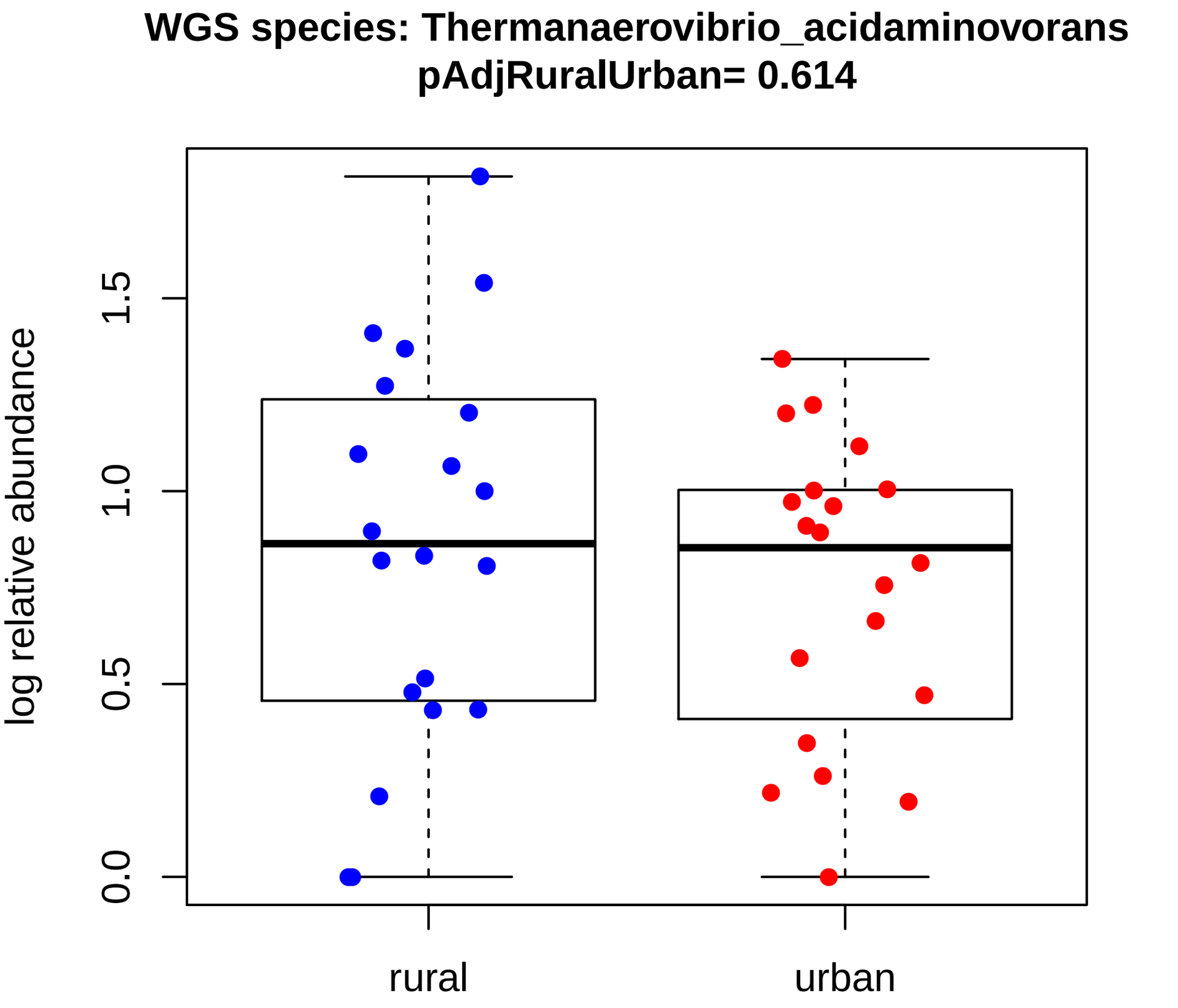

WGS species: Geobacter_uraniireducens
pAdjRuralUrban= 0.613
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

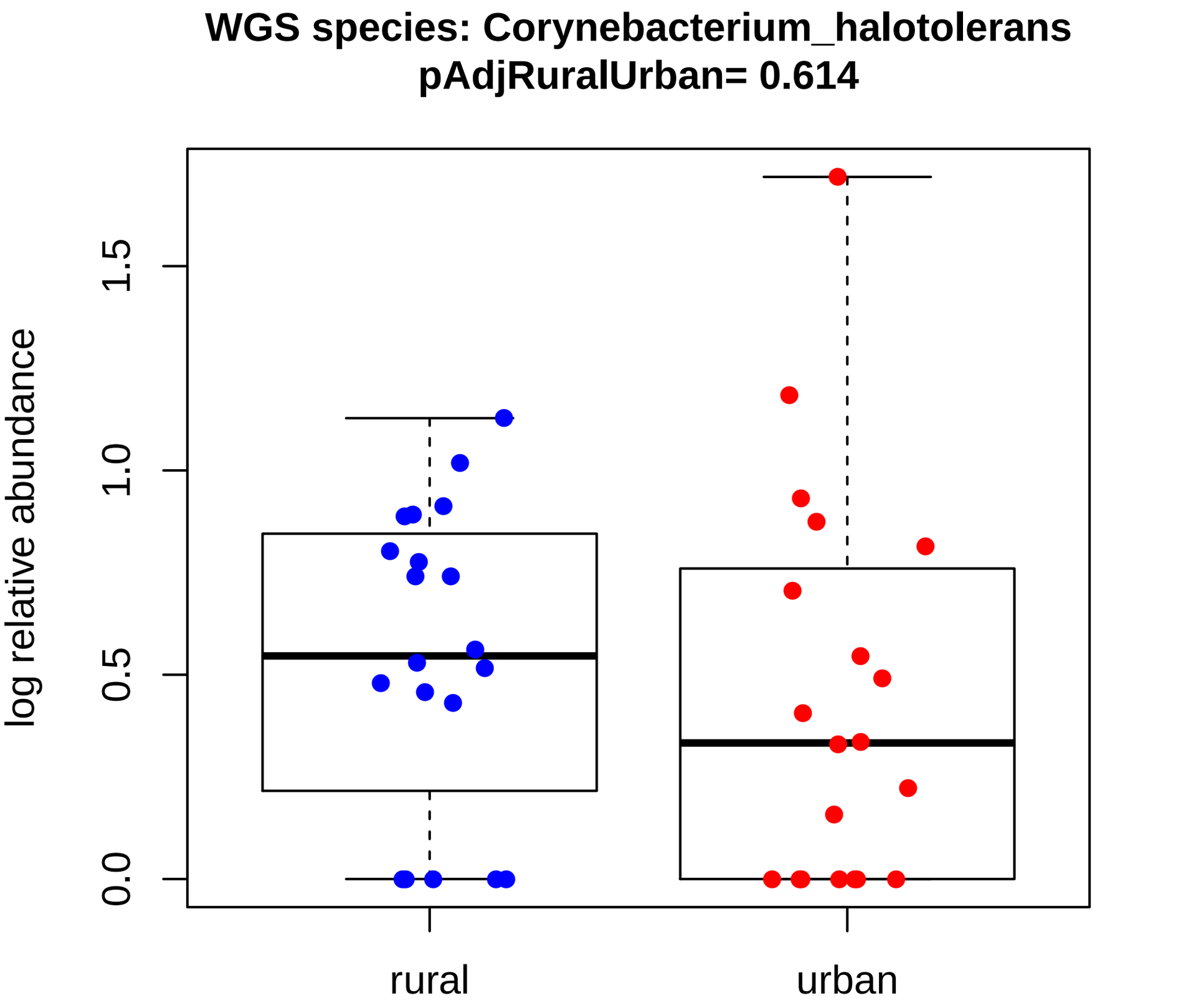

WGS species: Herminiimonas_arsenicoxydans
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

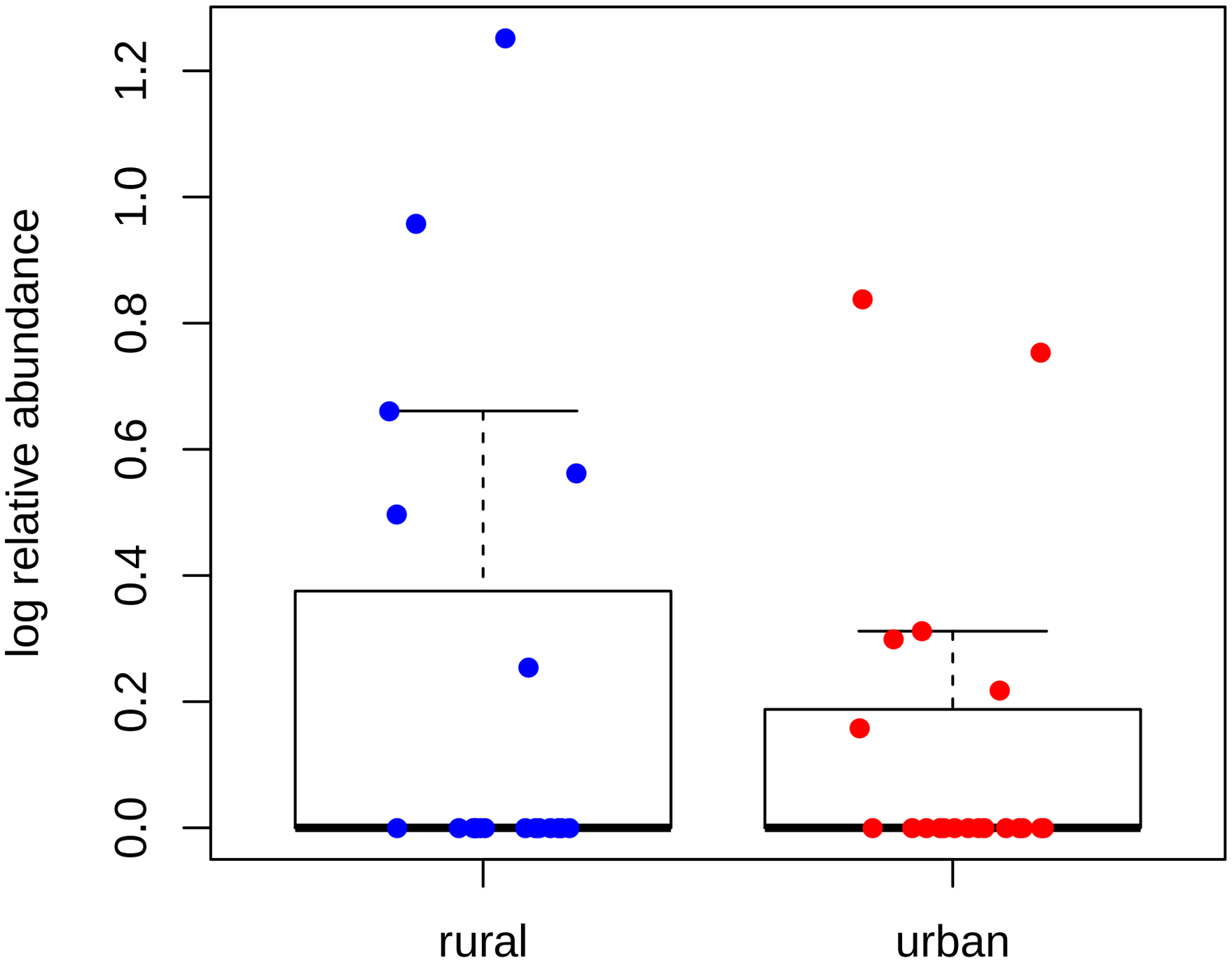

WGS species: Nostoc_sp._PCC_7120
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

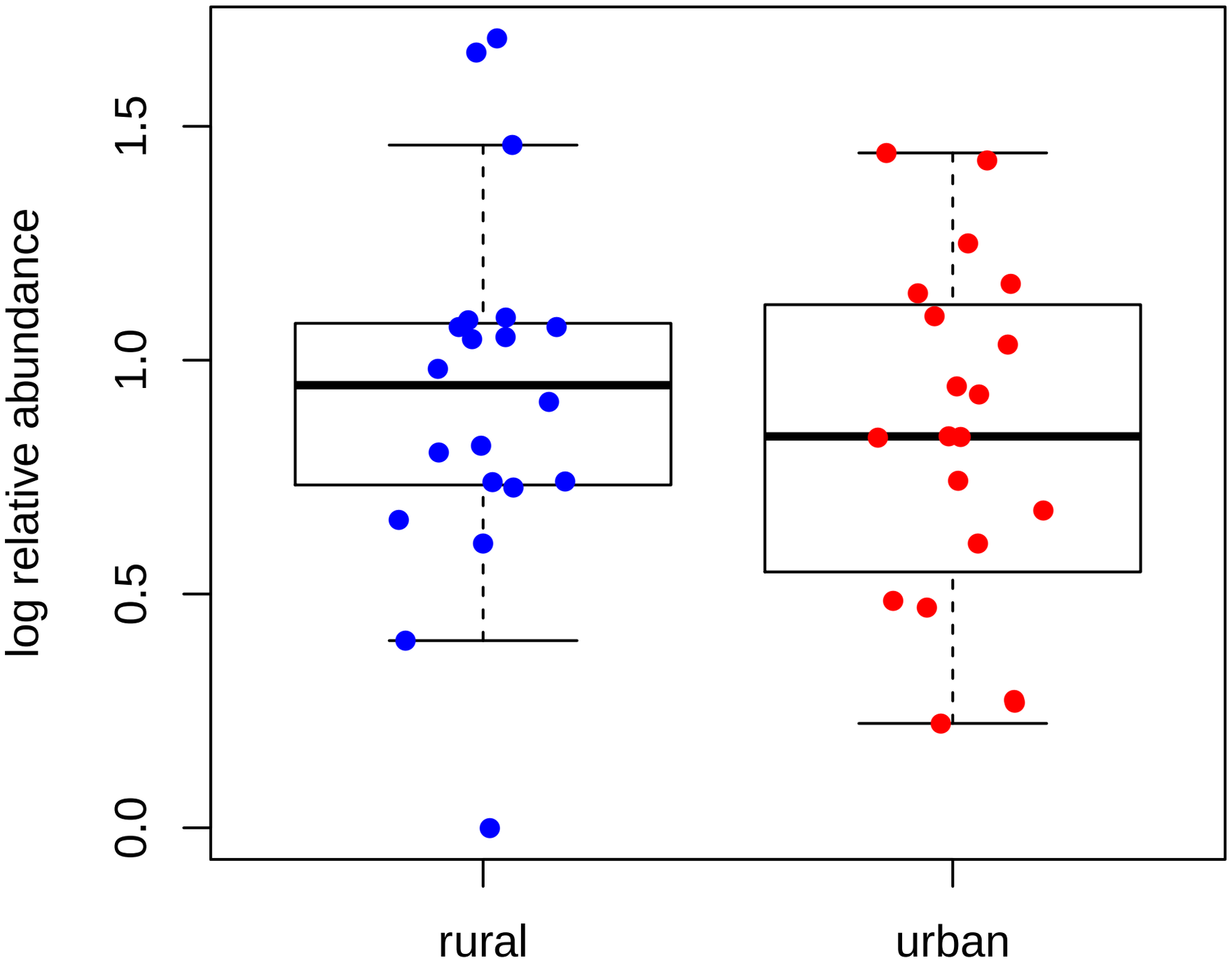

WGS species: Paenibacillus_polymyxa
pAdjRuralUrban= 0.614
log relative abundance
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
rural
urban

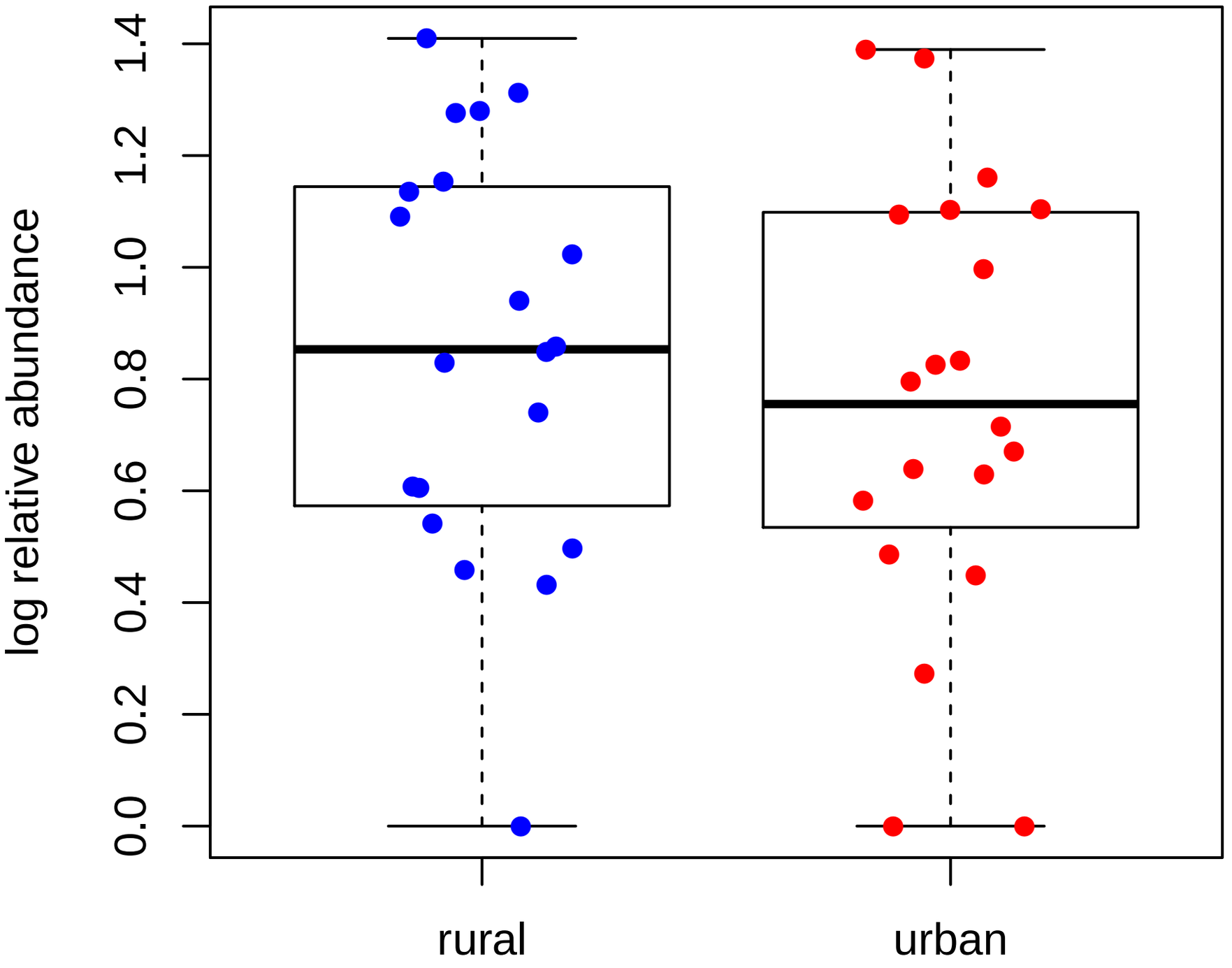

WGS species: Spirochaeta_sp._L21.RPul.D2
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

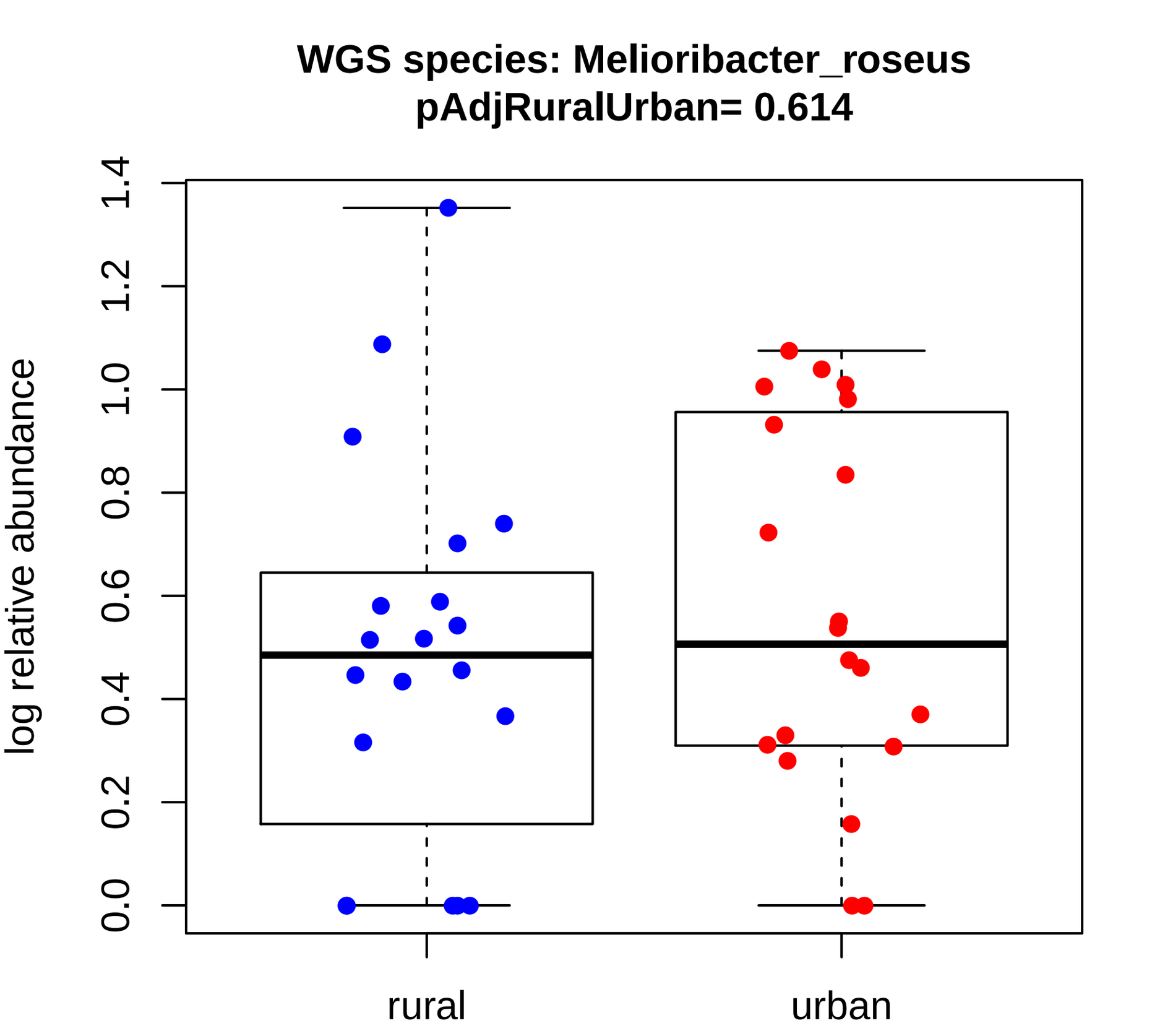

WGS species: Thermanaerovibrio_acidaminovorans
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

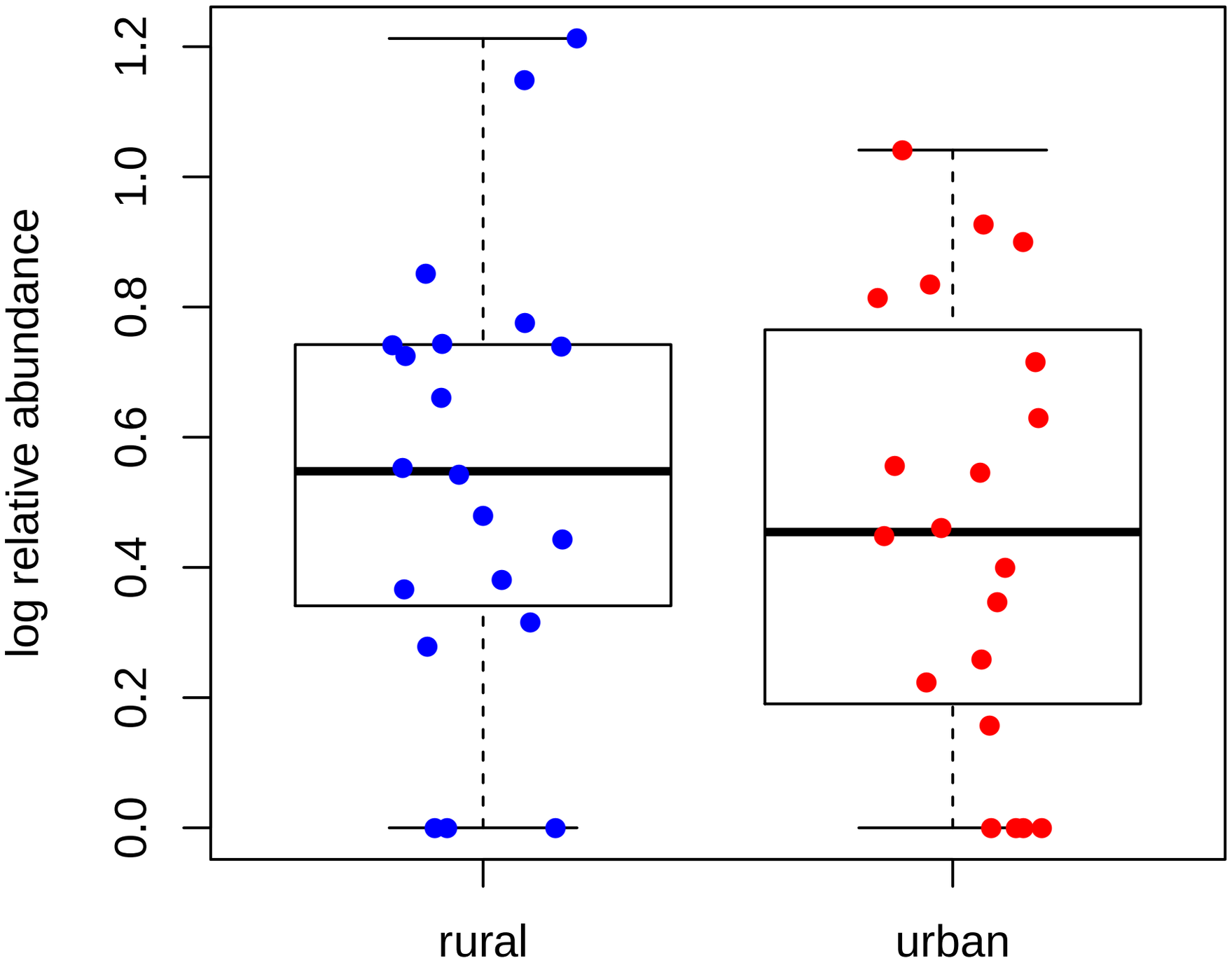

WGS species: Corynebacterium_halotolerans
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

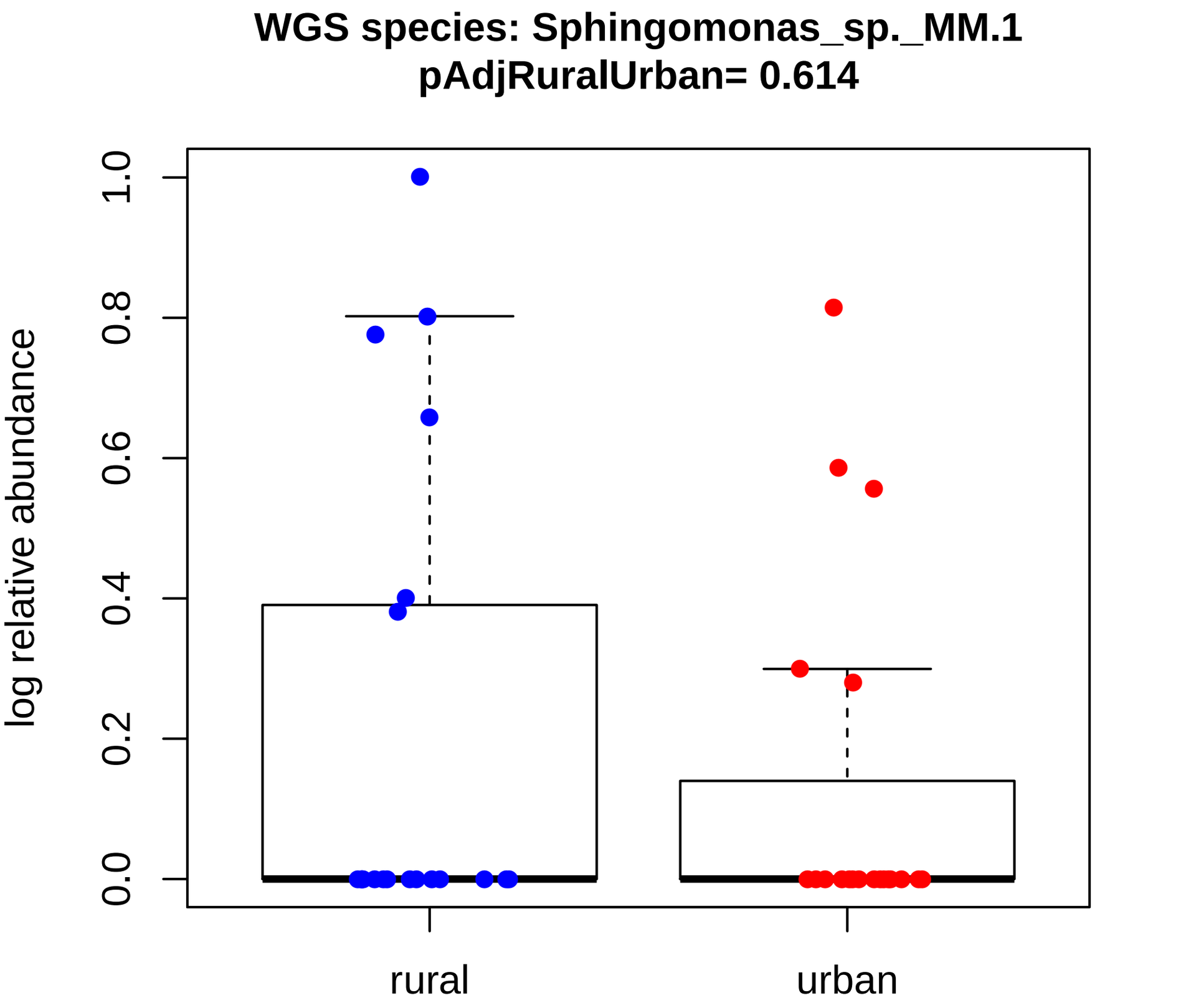

WGS species: Enterobacteria_phage_HK140
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

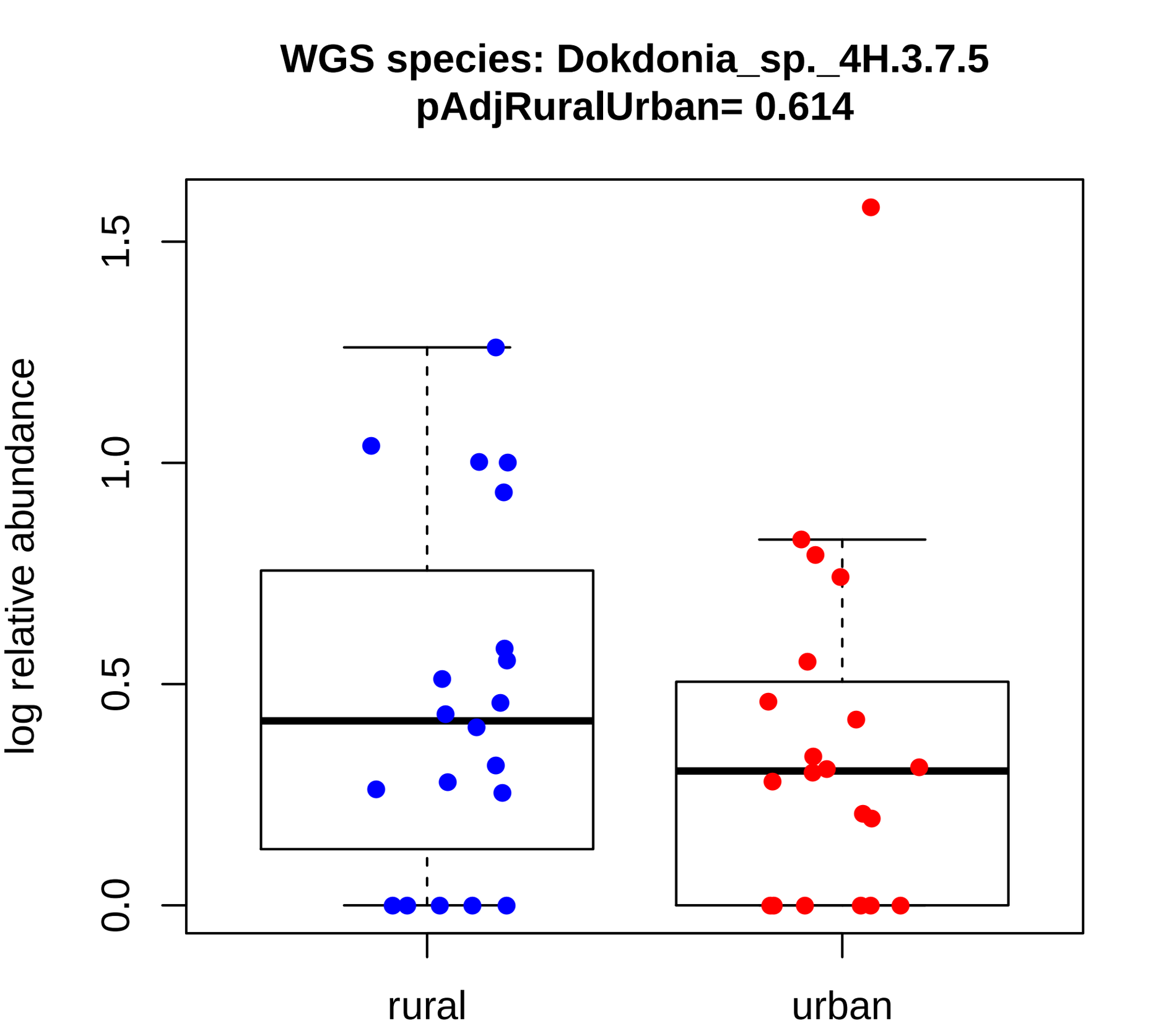

WGS species: Paenibacillus_sp._JDR.2
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

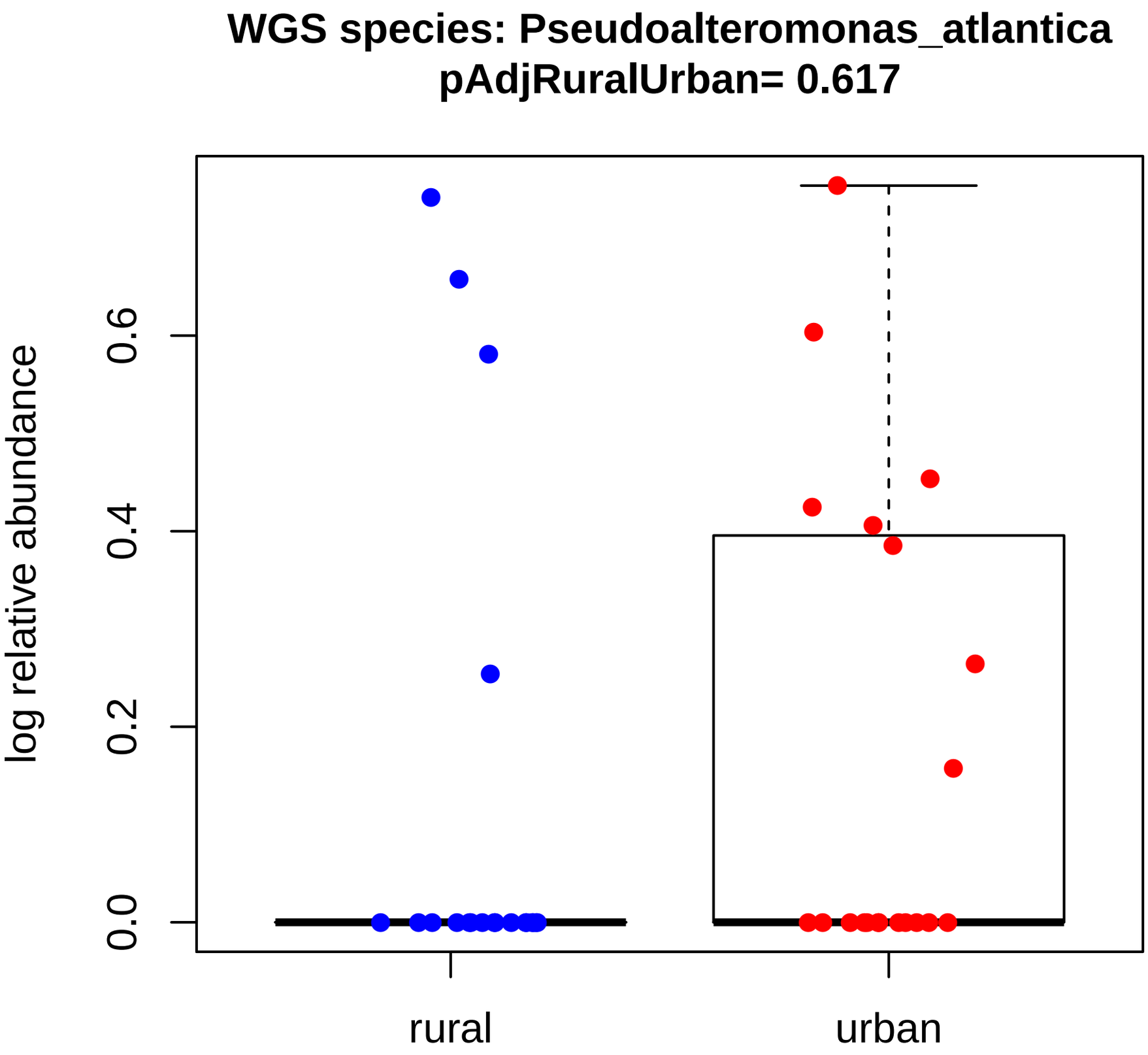

WGS species: Desulfitobacterium_dehalogenans
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban


WGS species: Melioribacter_roseus
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban


WGS species: Nautilia_profundicola
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban


WGS species: Sphingomonas_sp._MM.1
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban


WGS species: Dokdonia_sp._4H.3.7.5
pAdjRuralUrban= 0.614
log relative abundance
0.0
0.5
1.0
1.5
rural
urban


WGS species: Pseudoalteromonas_atlantica
pAdjRuralUrban= 0.617
log relative abundance
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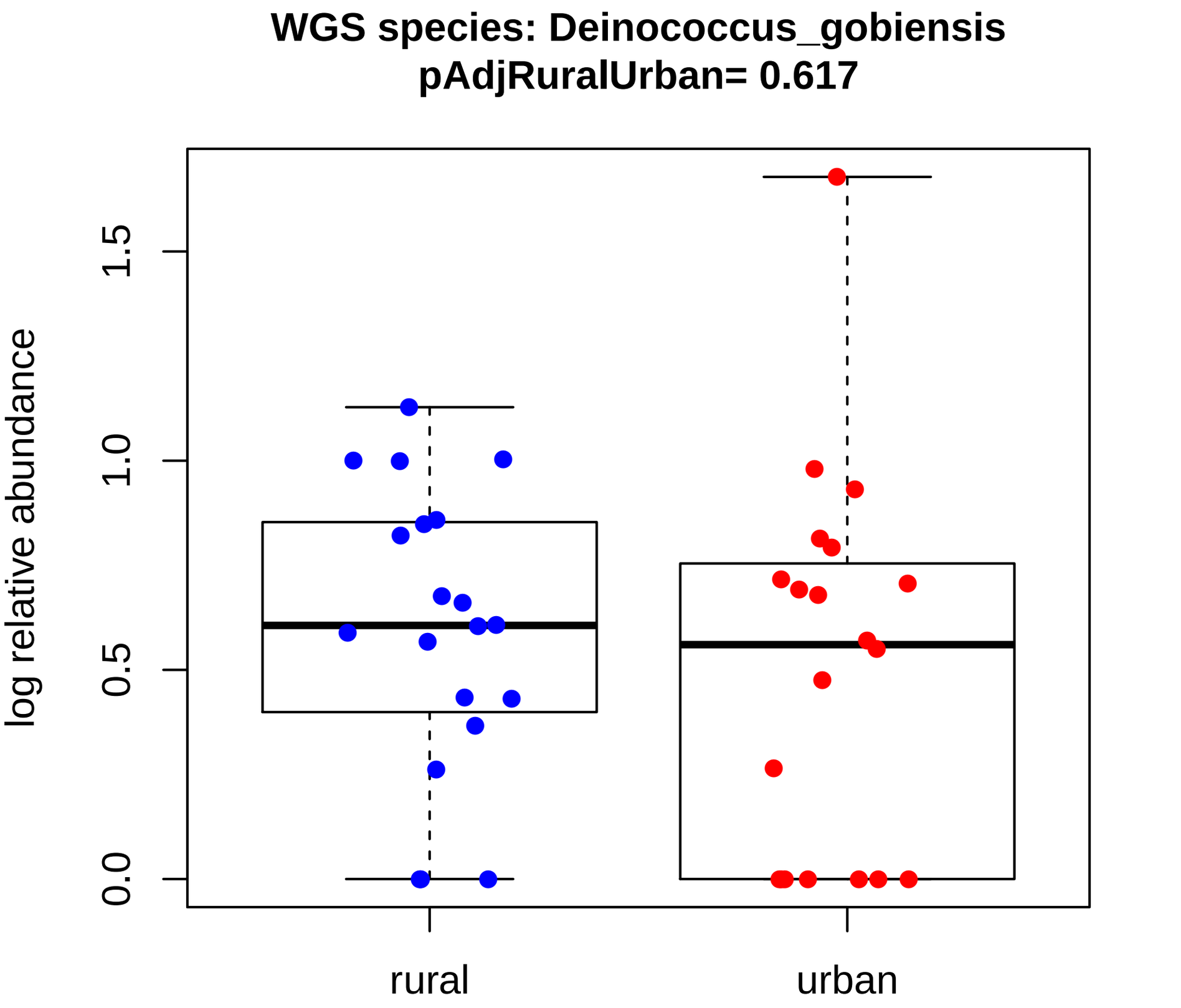
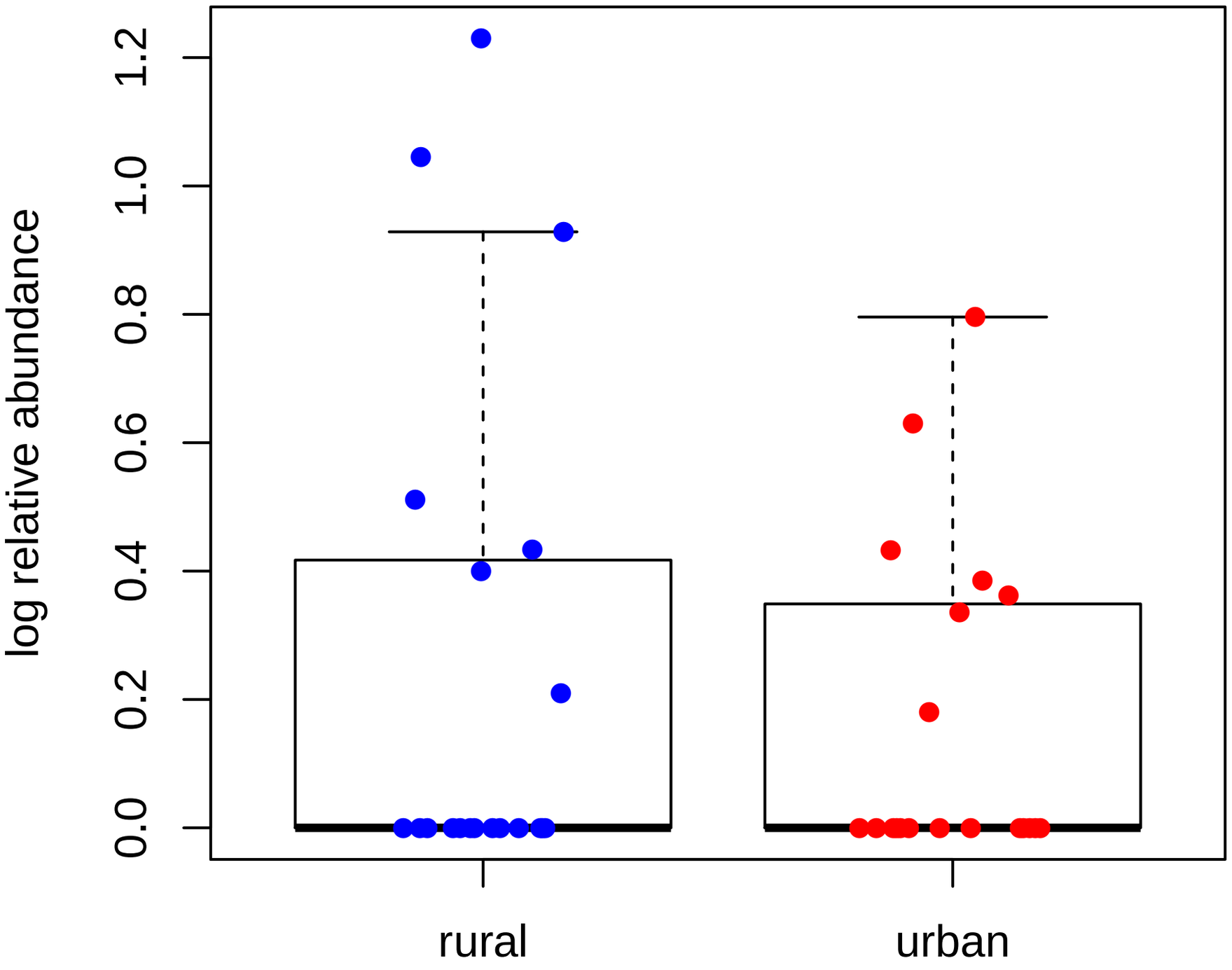
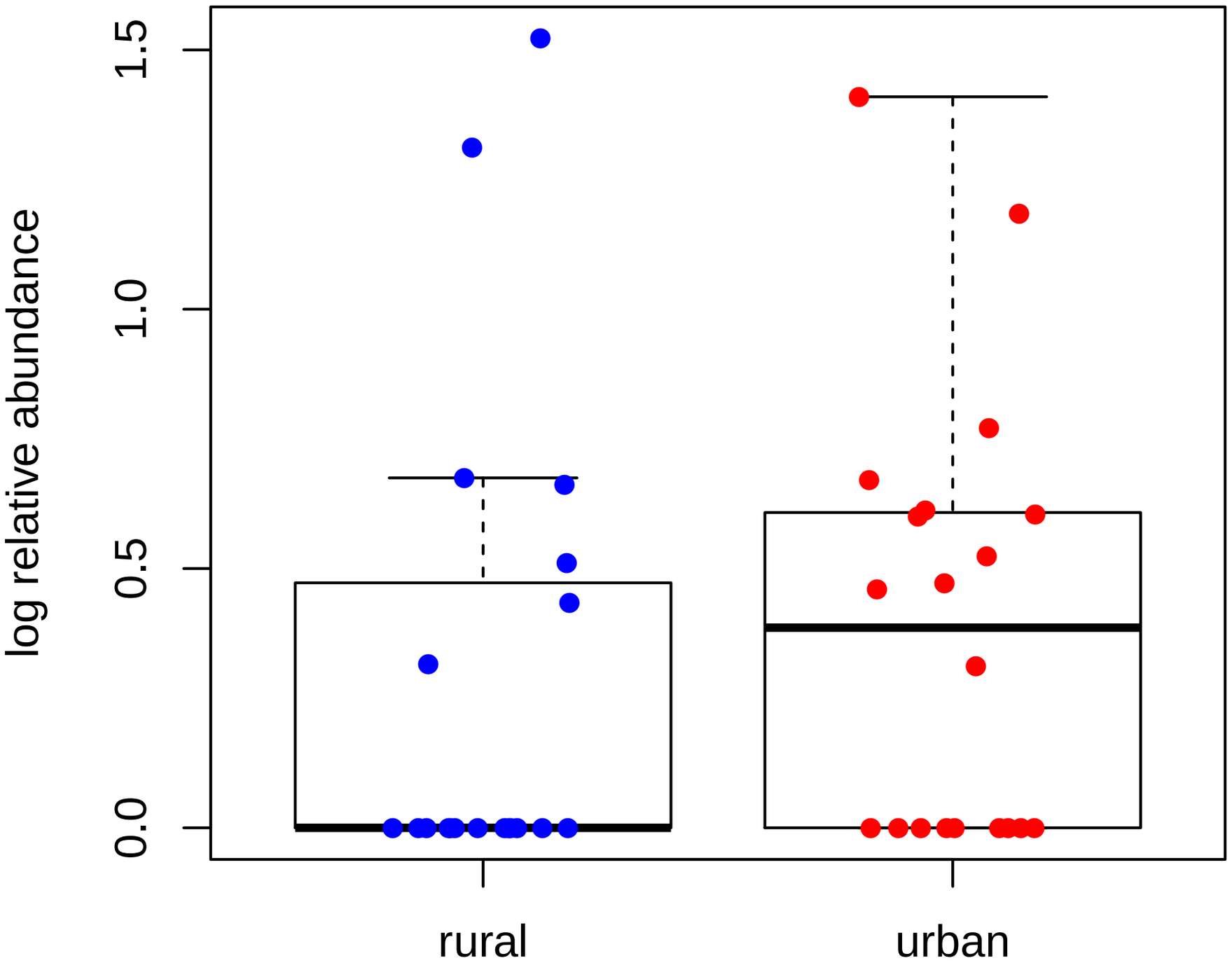
0.2
0.4
0.6
rural
urban


WGS species: Deinococcus_gobiensis
pAdjRuralUrban= 0.617
log relative abundance
0.0
0.5
1.0
1.5
rural
urban


WGS species: Pectobacterium_wasabiae
pAdjRuralUrban= 0.618
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban


WGS species: Glaciecola_sp._4H.3.7.YE.5
pAdjRuralUrban= 0.619
log relative abundance
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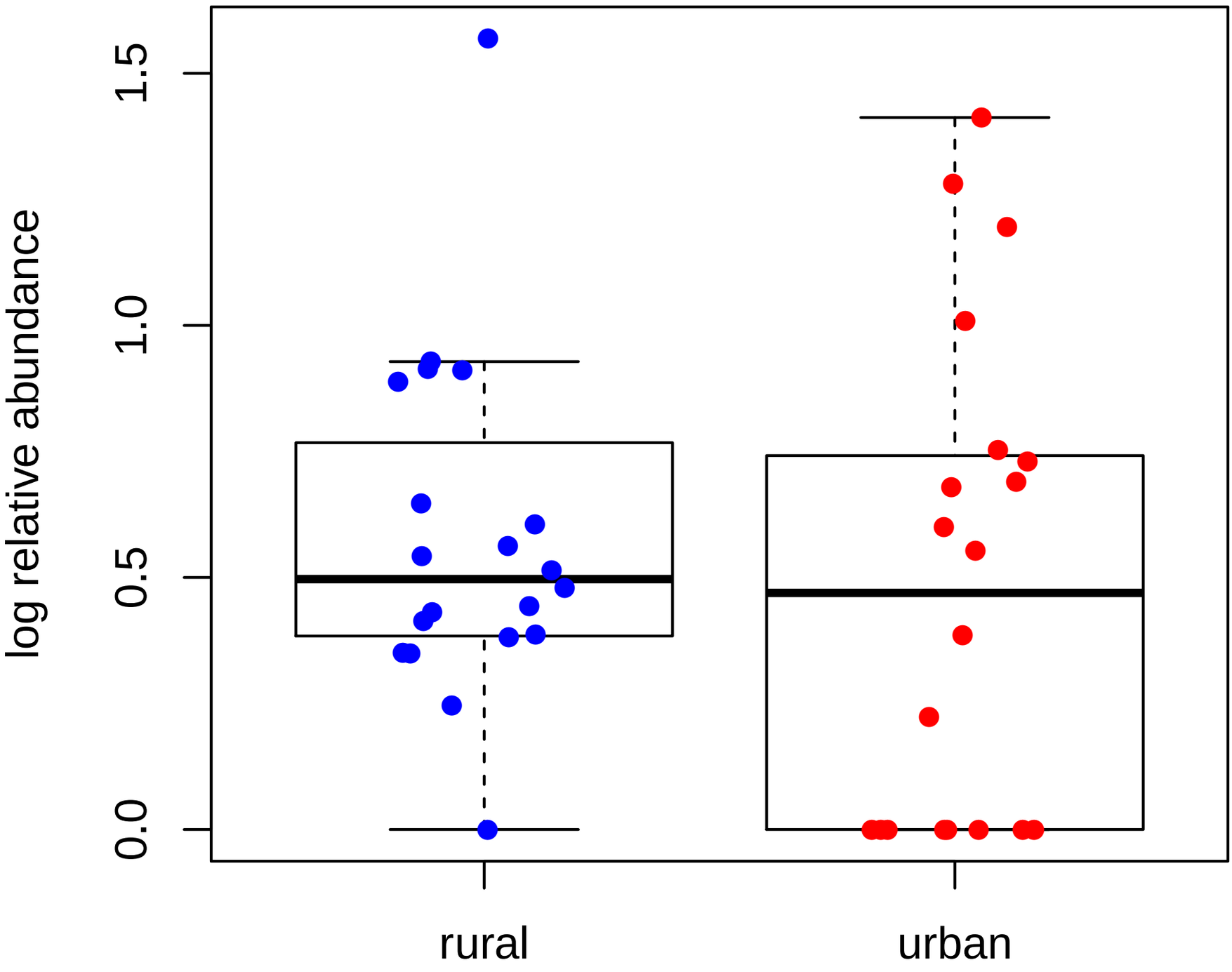
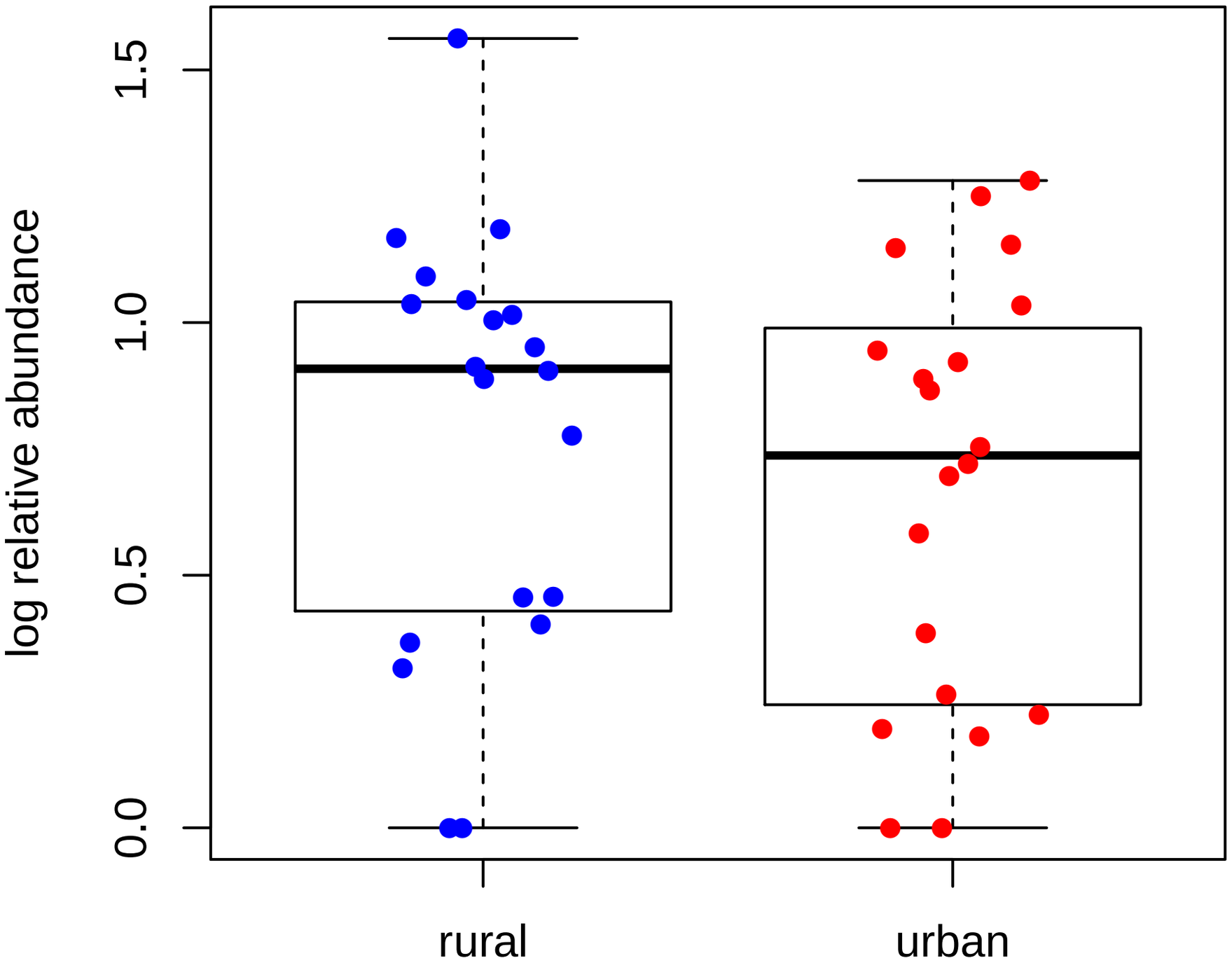
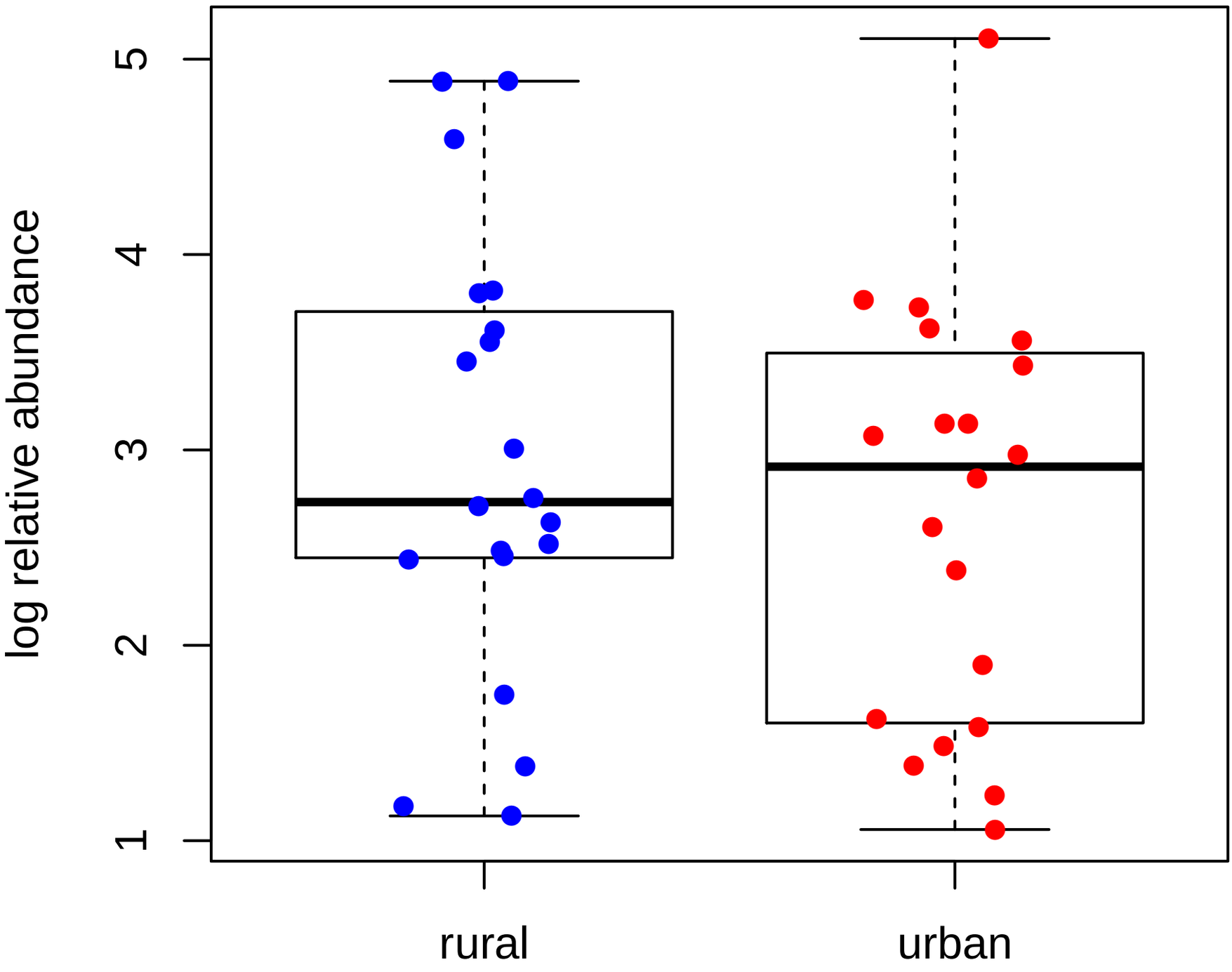
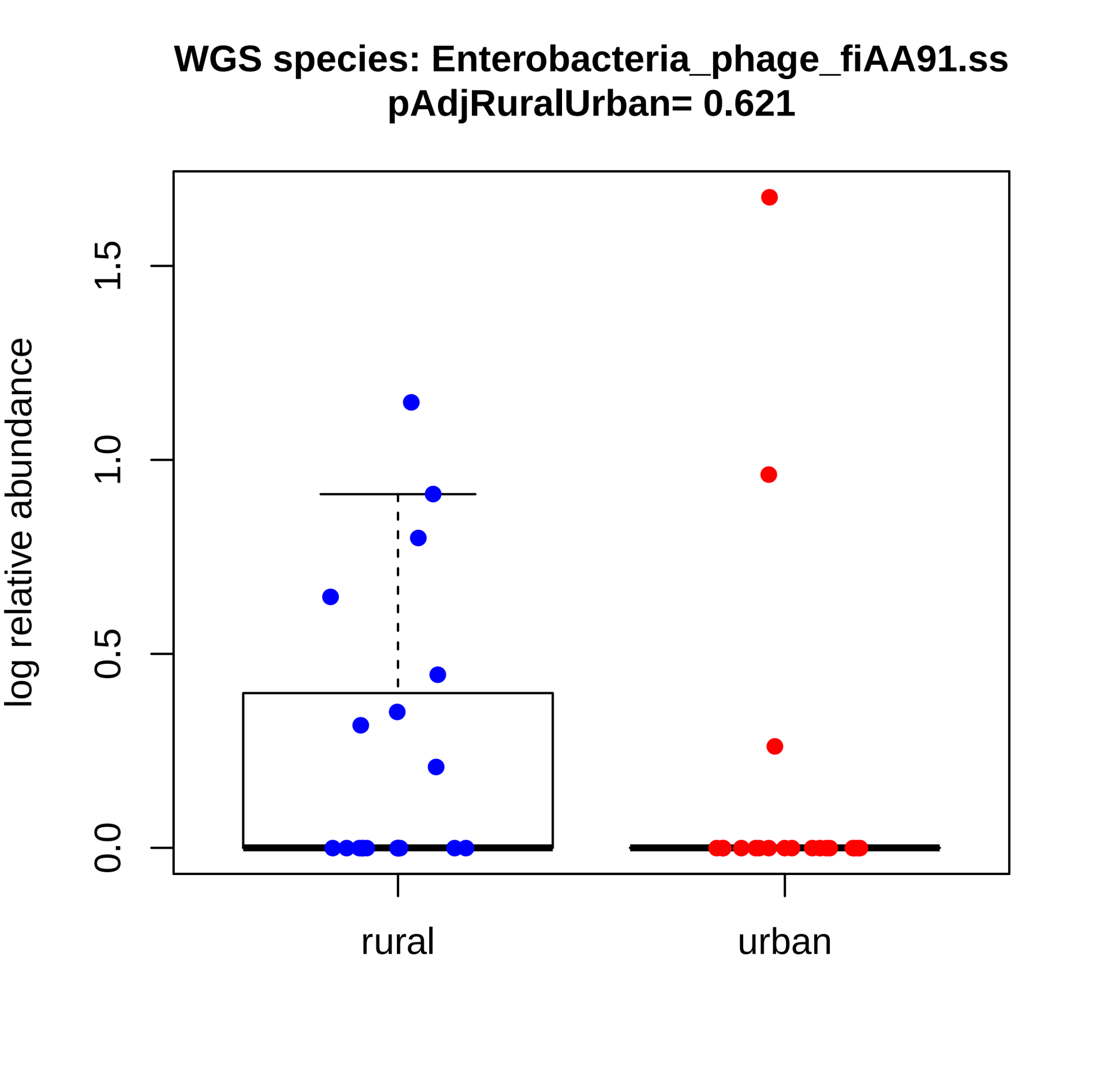
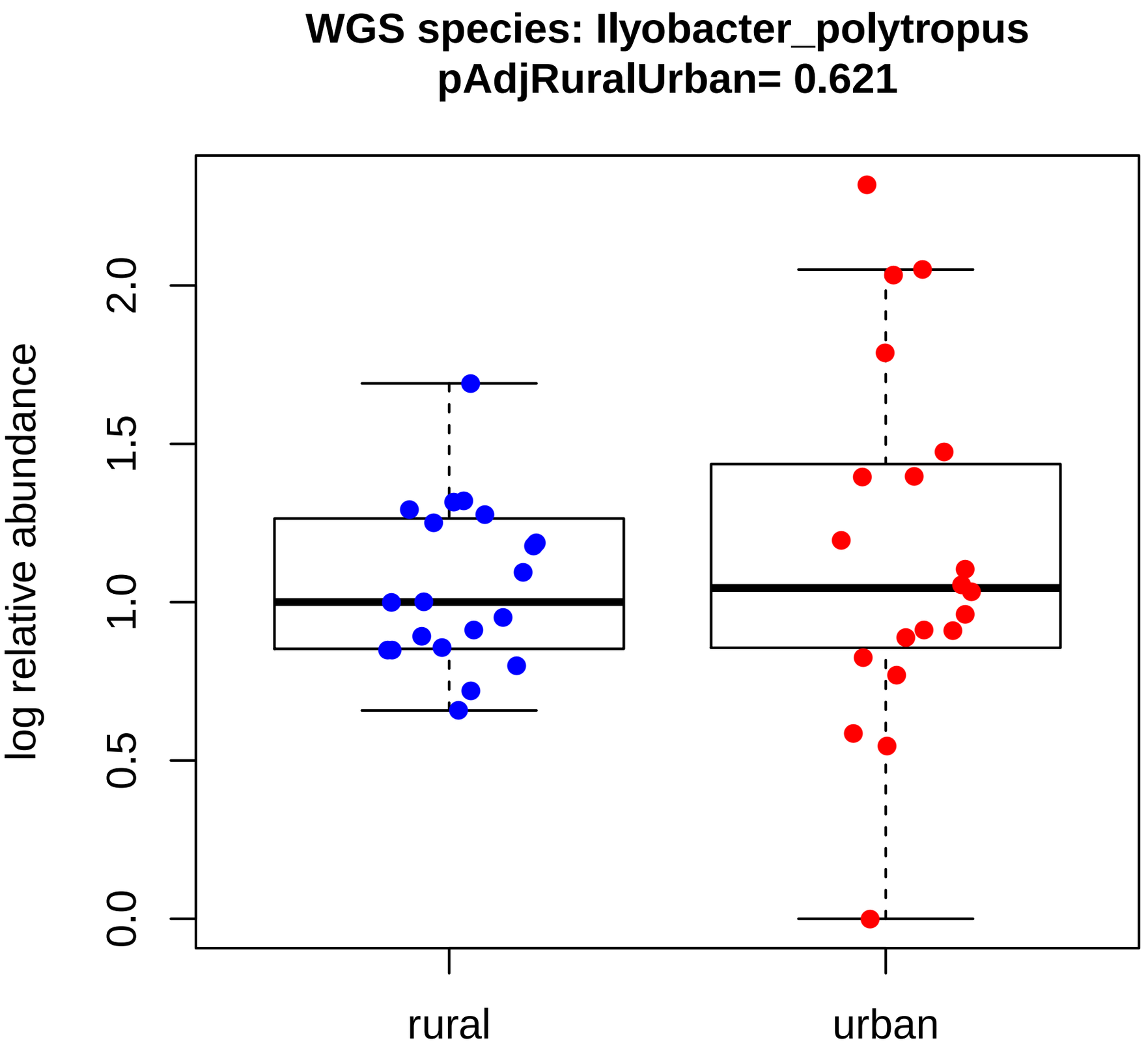
0.5
1.0
1.5
rural
urban

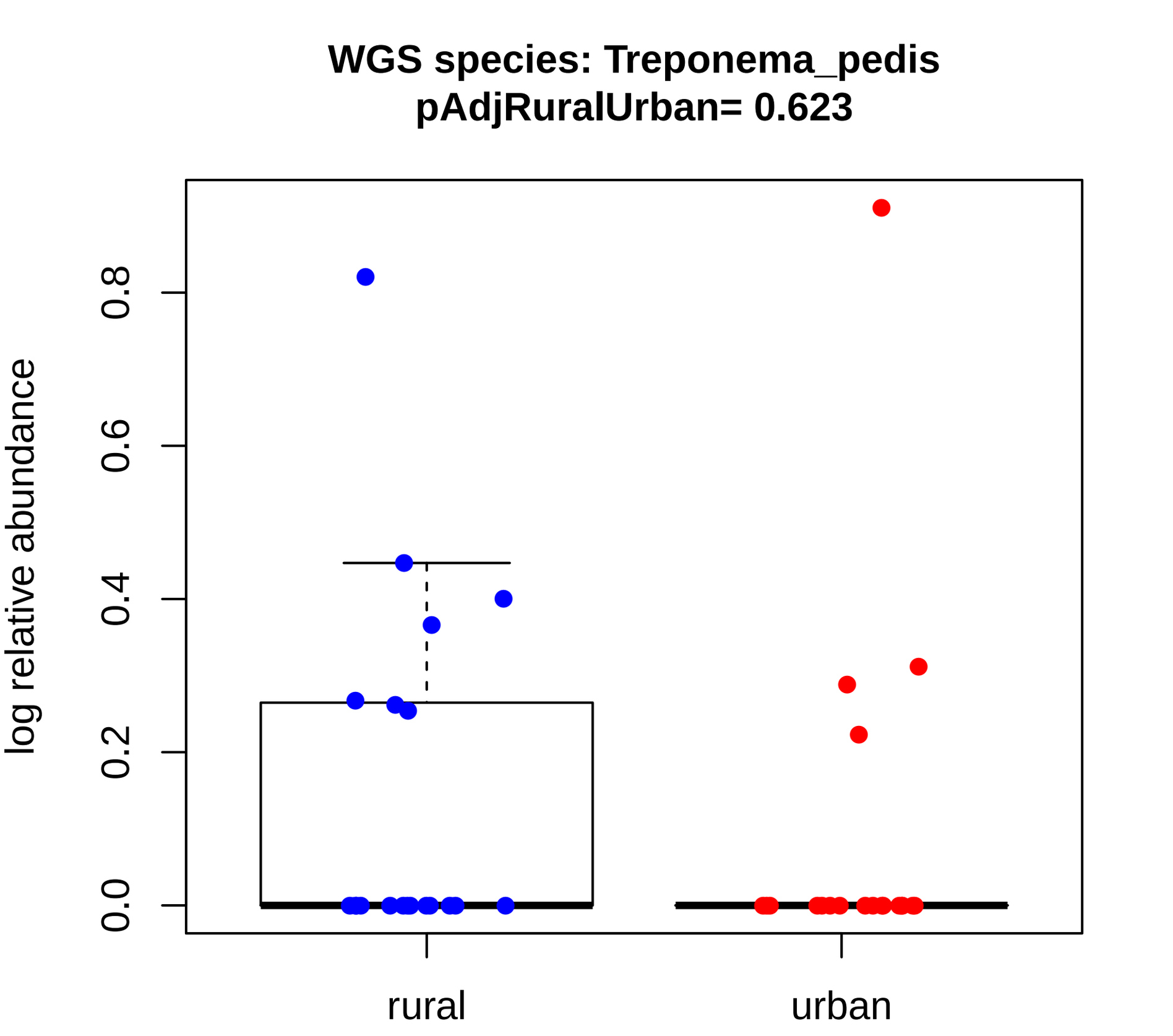

WGS species: Anaerolinea_thermophila
pAdjRuralUrban= 0.621
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

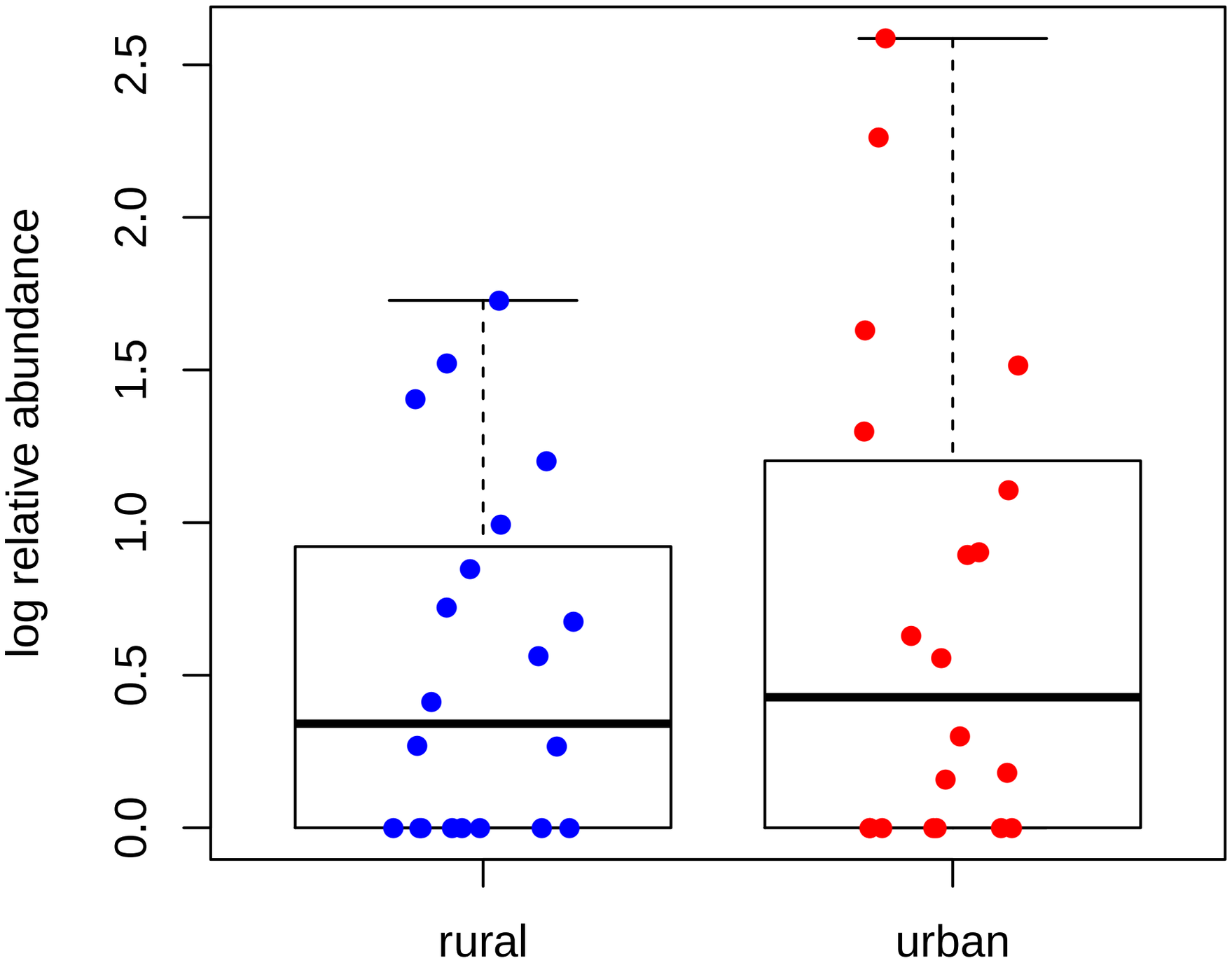

WGS species: Zunongwangia_profunda
pAdjRuralUrban= 0.621
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

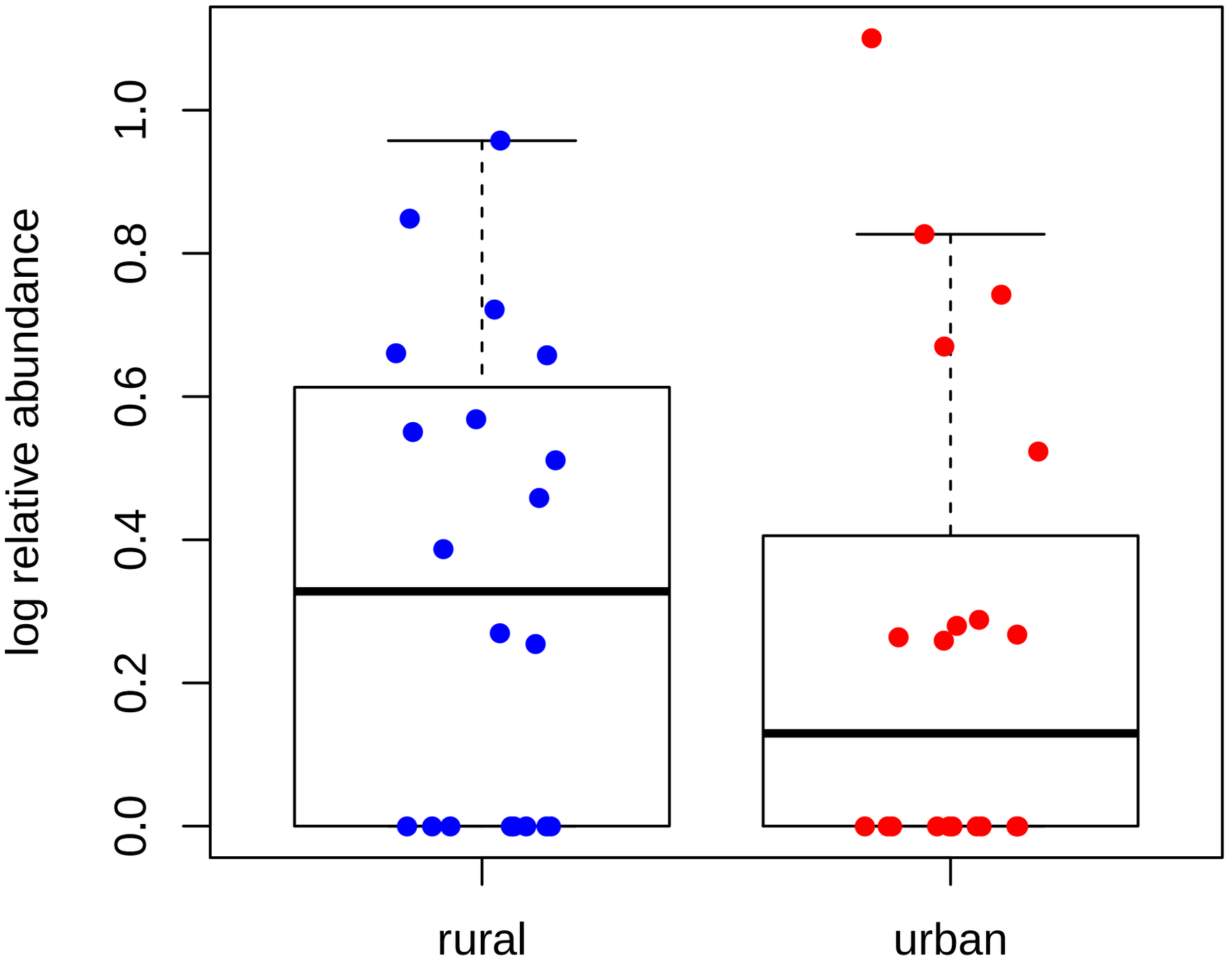

WGS species: Enterobacter_cloacae
pAdjRuralUrban= 0.621
log relative abundance
1
2
3
4
5
rural
urban

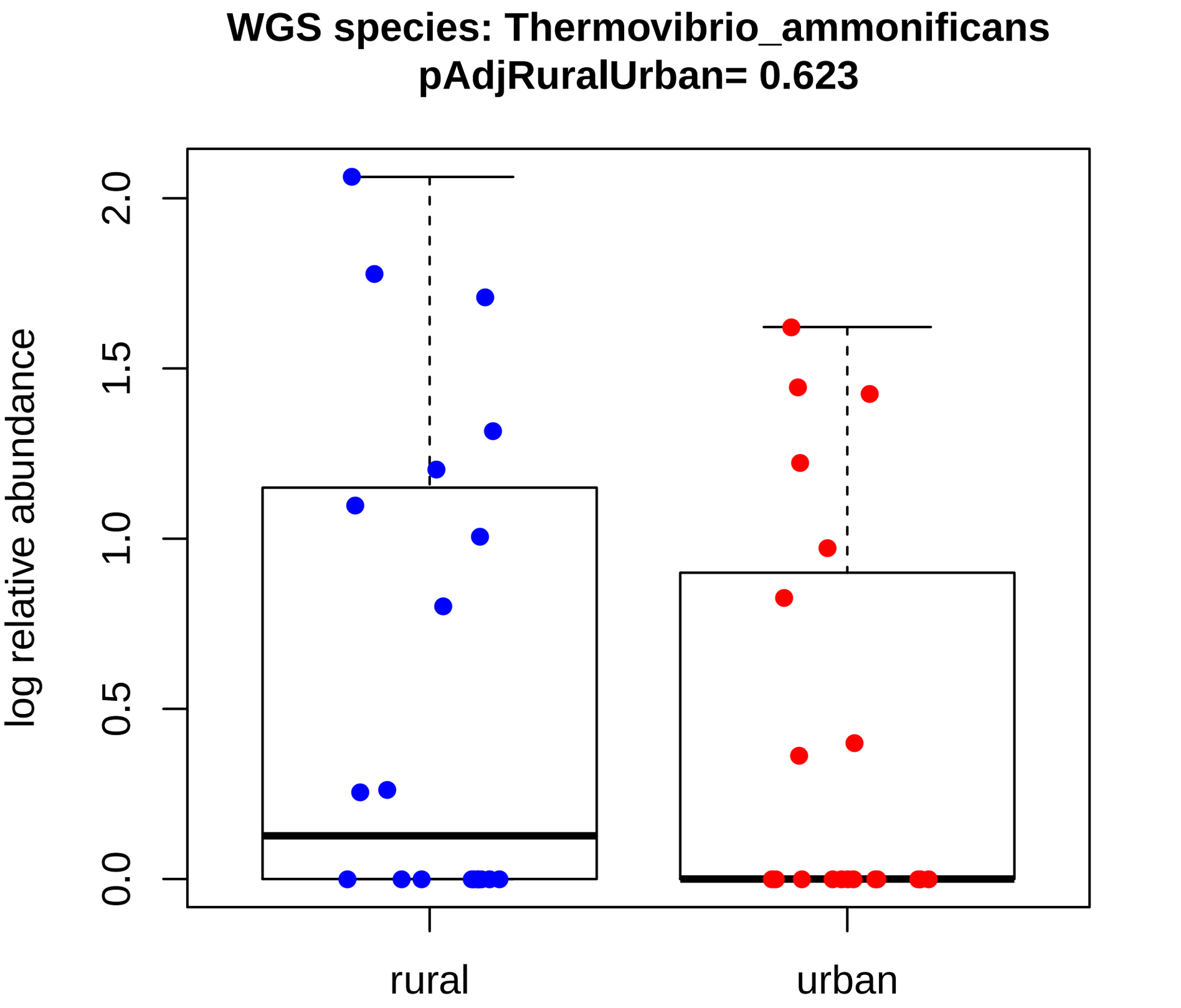

WGS species: Enterobacteria_phage_fiAA91.ss
pAdjRuralUrban= 0.621
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

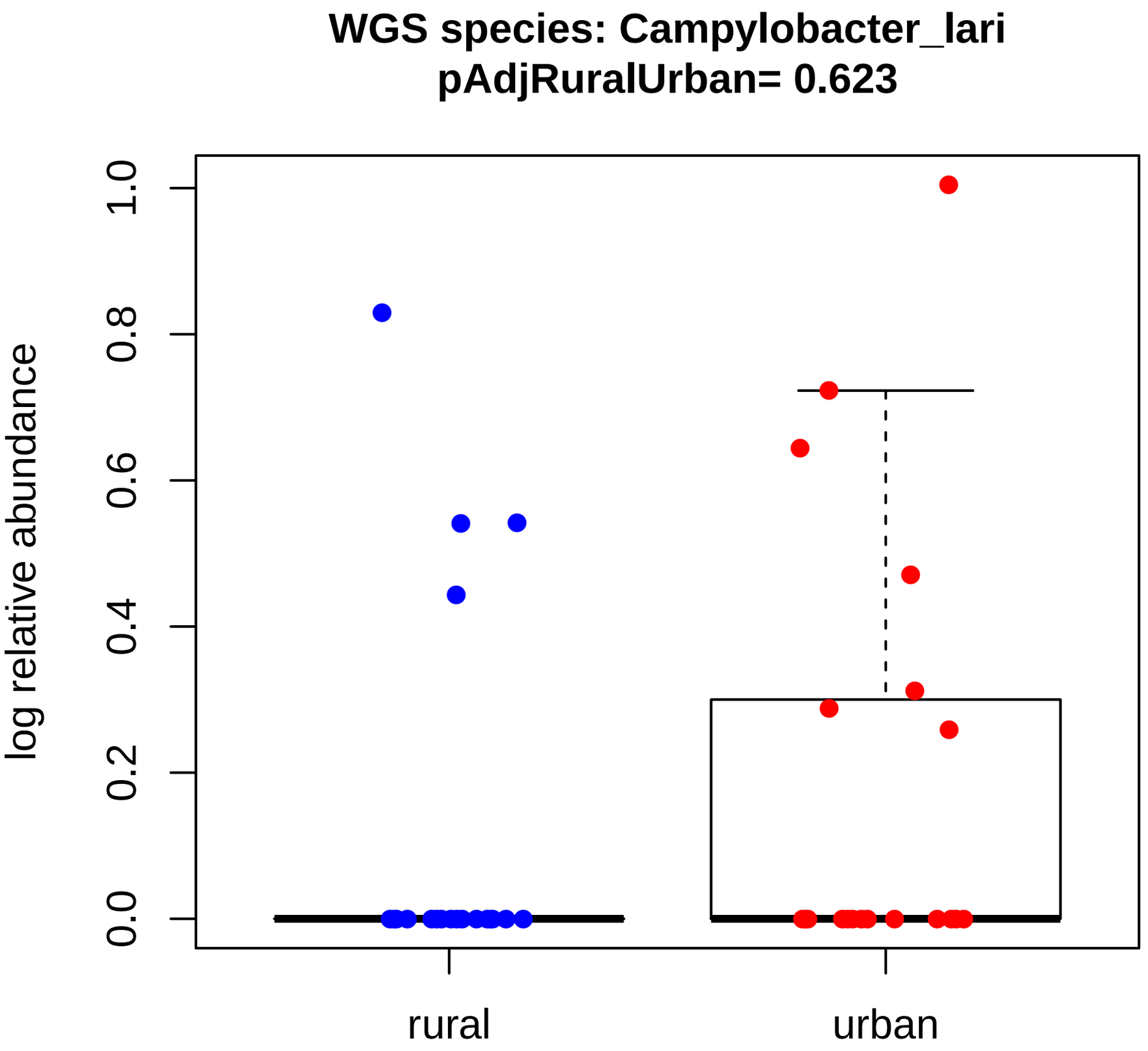

WGS species: Ilyobacter_polytropus
pAdjRuralUrban= 0.621
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

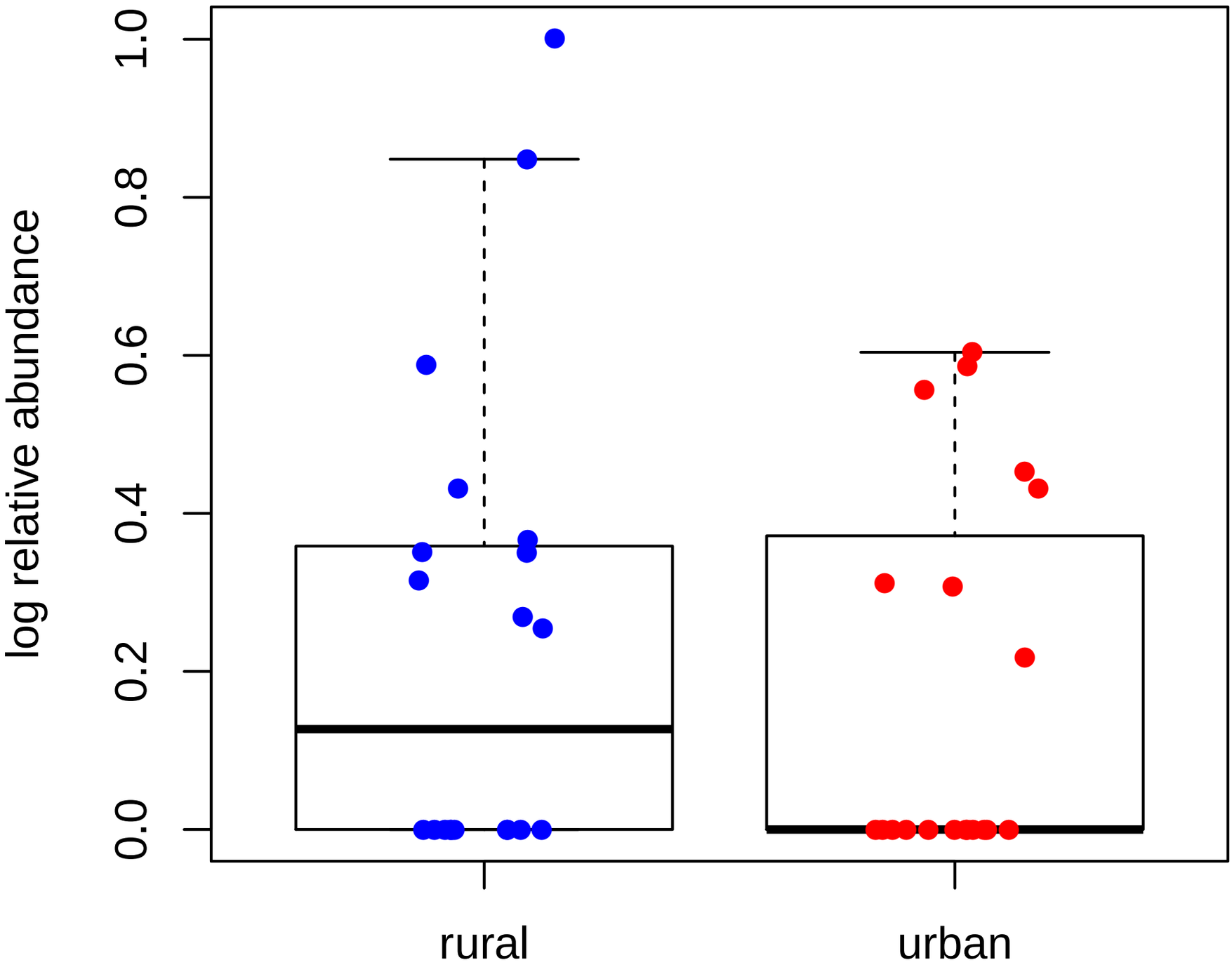

WGS species: Treponema_pedis
pAdjRuralUrban= 0.623
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

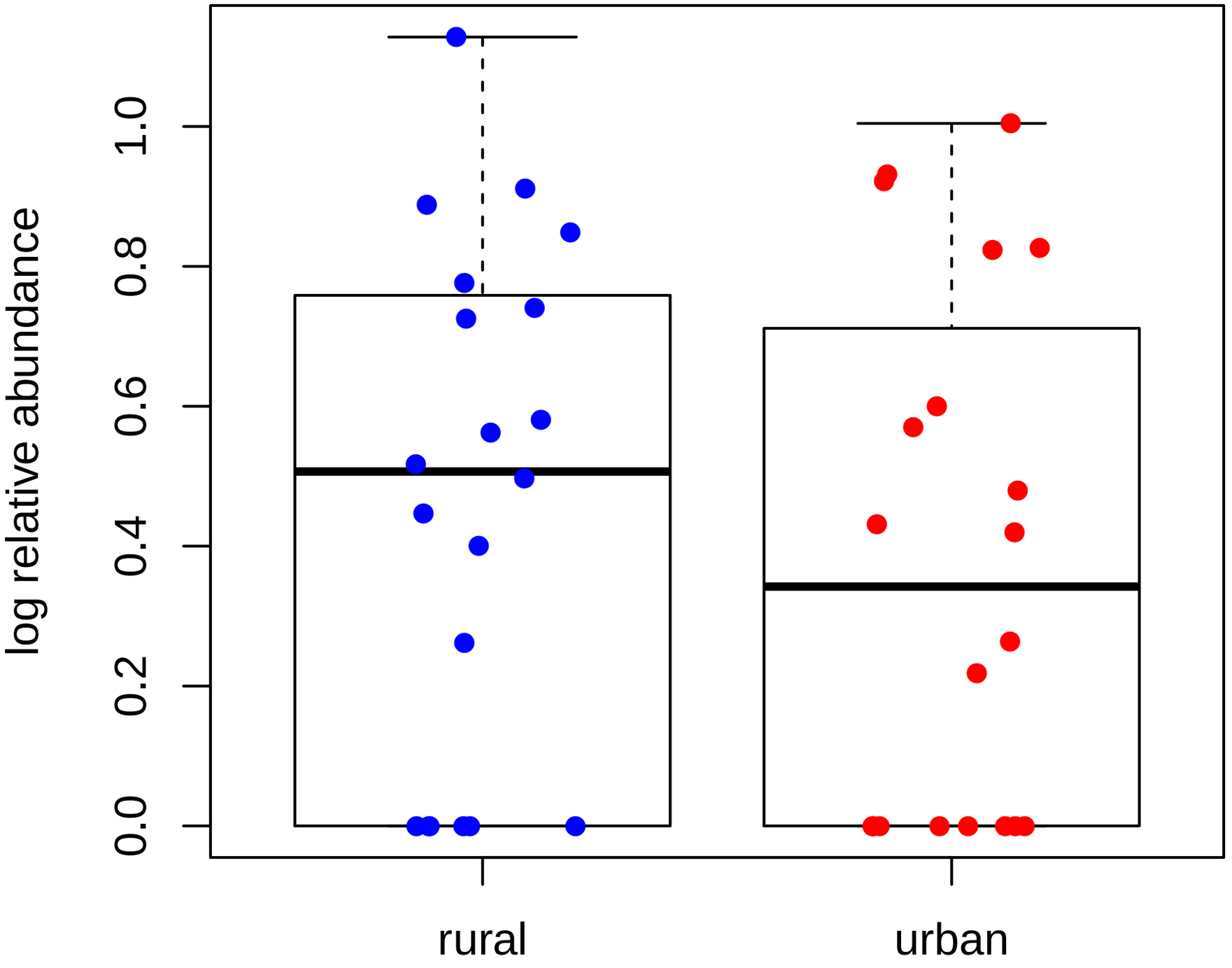

WGS species: Edwardsiella_tarda
pAdjRuralUrban= 0.623
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

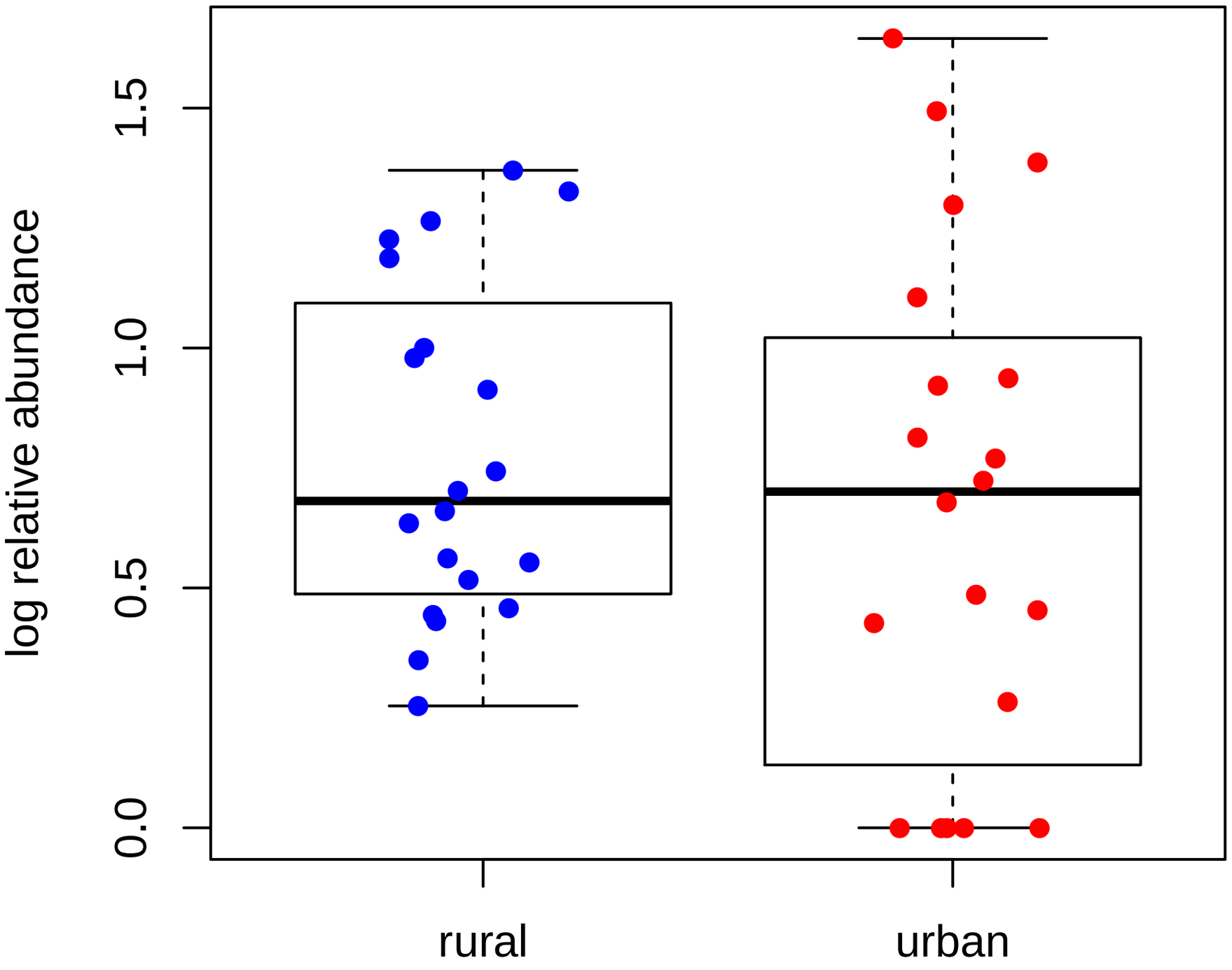

WGS species: Thermoanaerobacterium_xylanolyticum
pAdjRuralUrban= 0.623
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

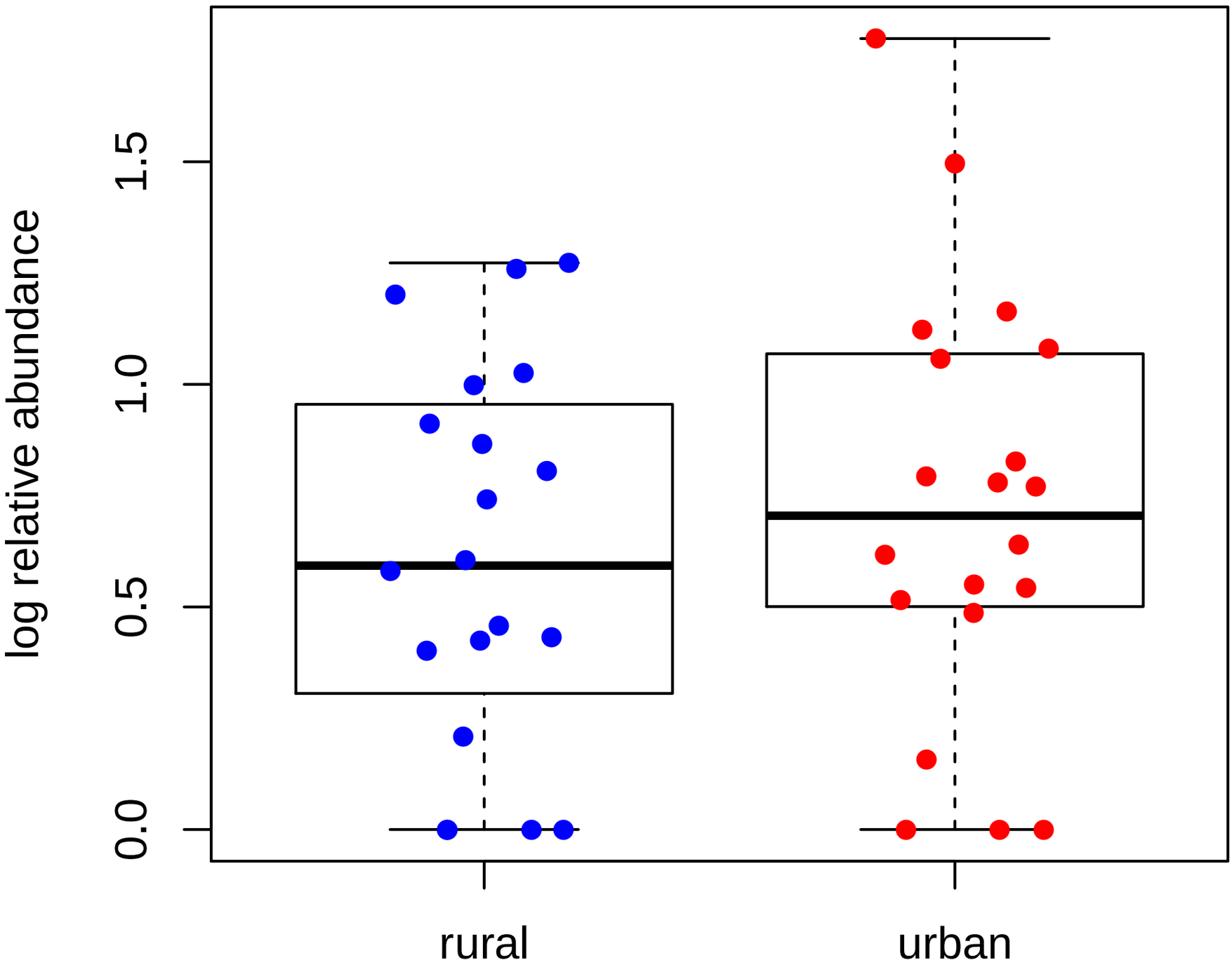

WGS species: Thermovibrio_ammonificans
pAdjRuralUrban= 0.623
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

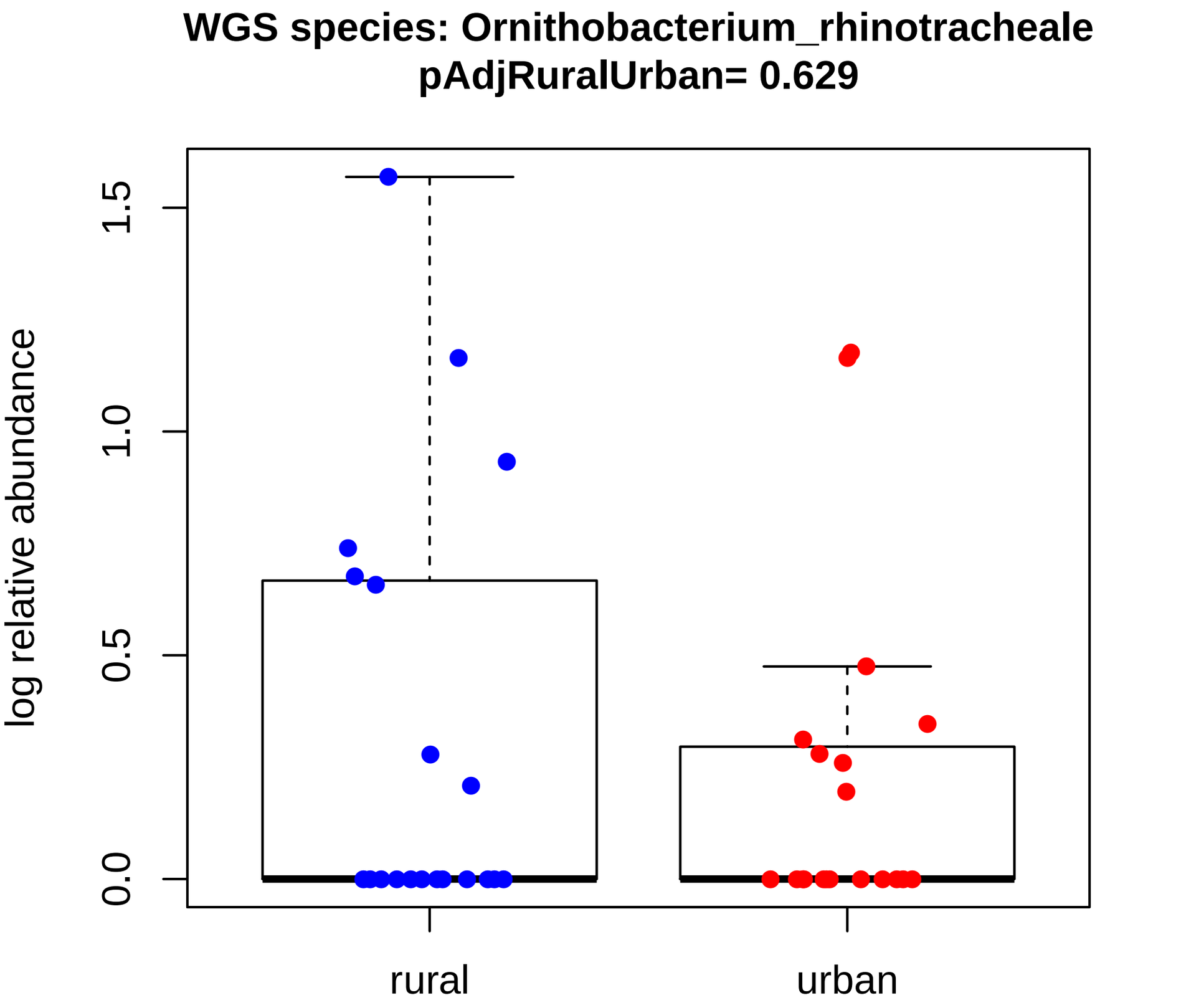

WGS species: Campylobacter_lari
pAdjRuralUrban= 0.623
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

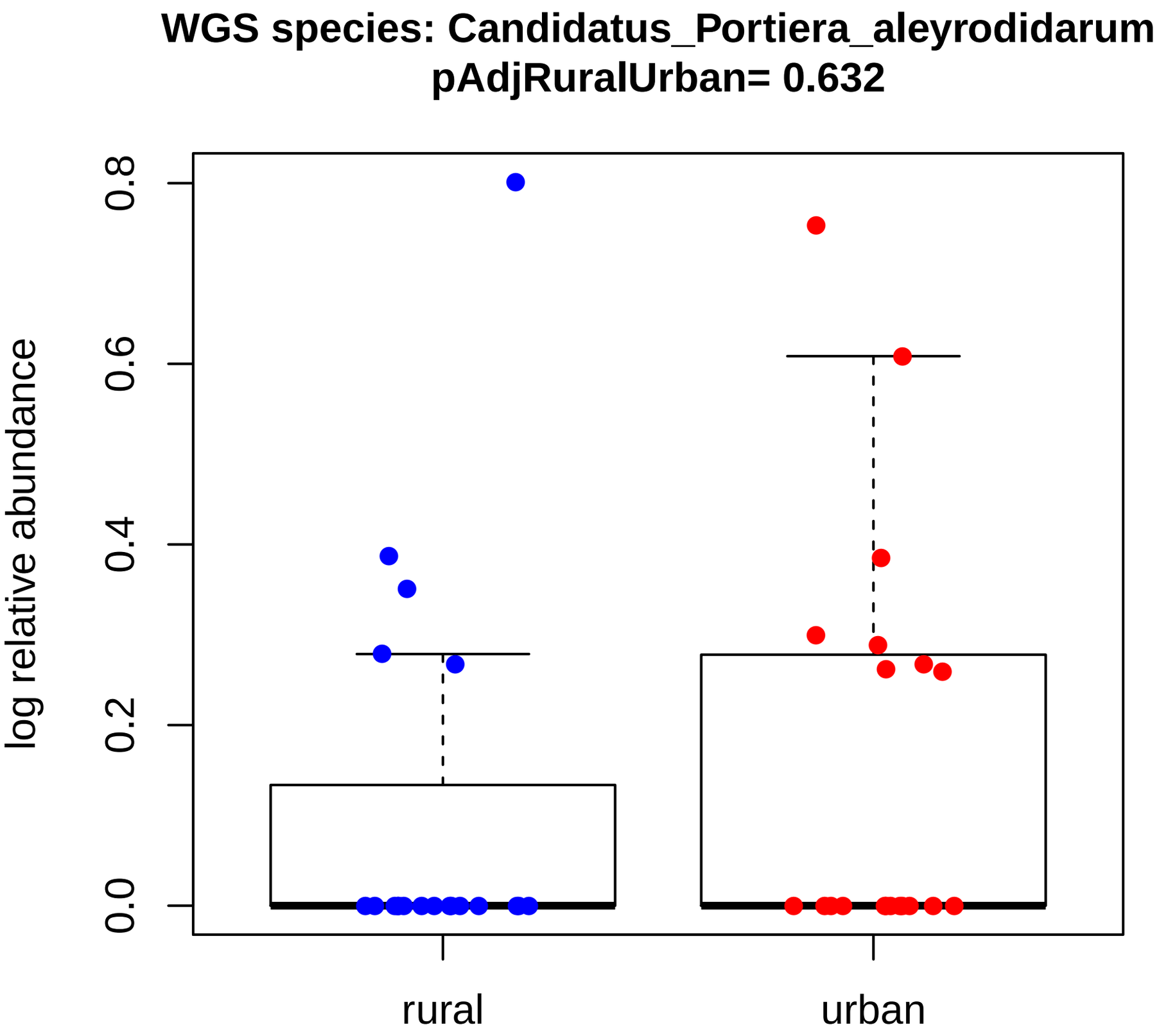

WGS species: Frankia_sp._EAN1pec
pAdjRuralUrban= 0.625
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

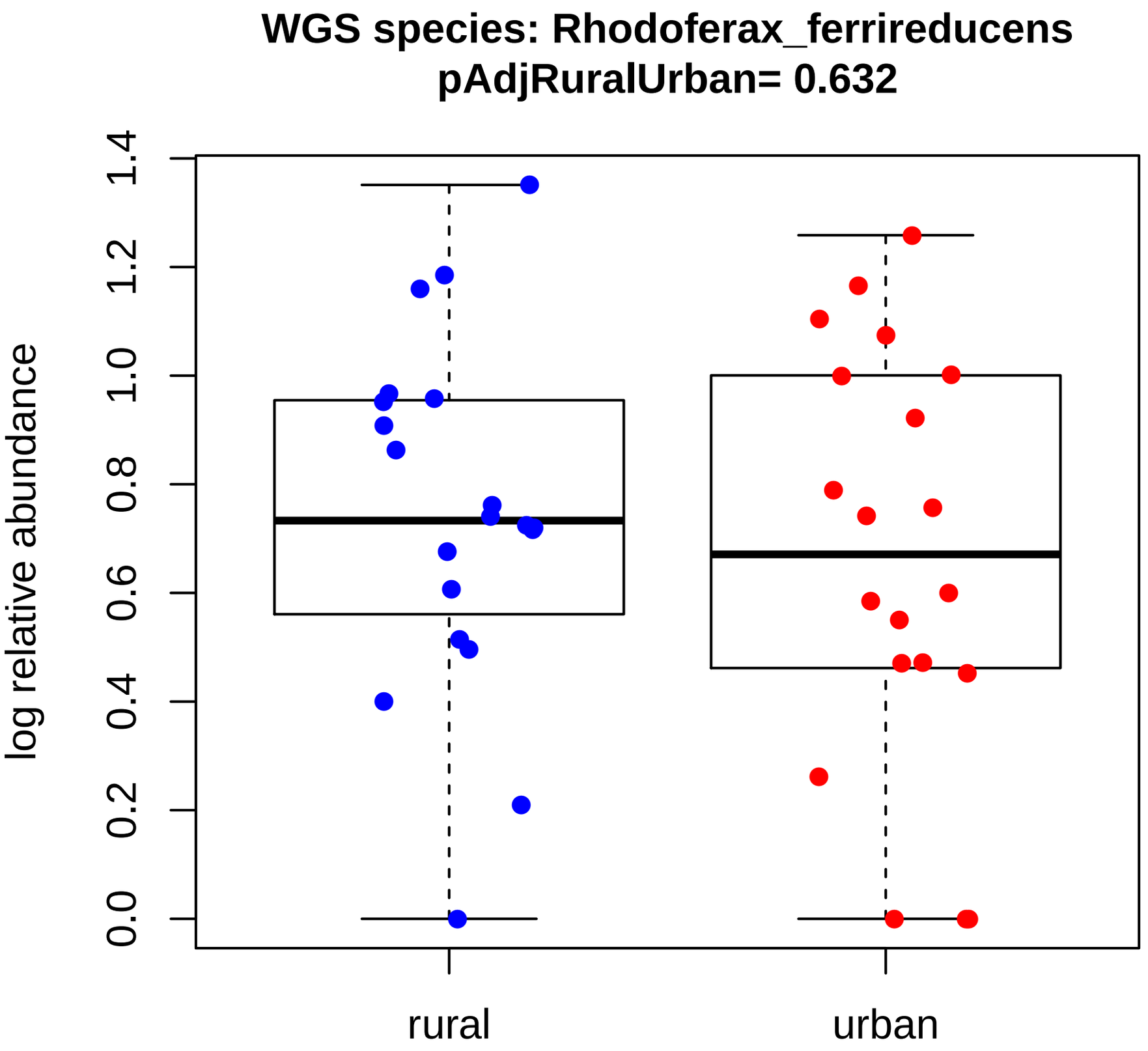

WGS species: Ammonifex_degensii
pAdjRuralUrban= 0.625
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

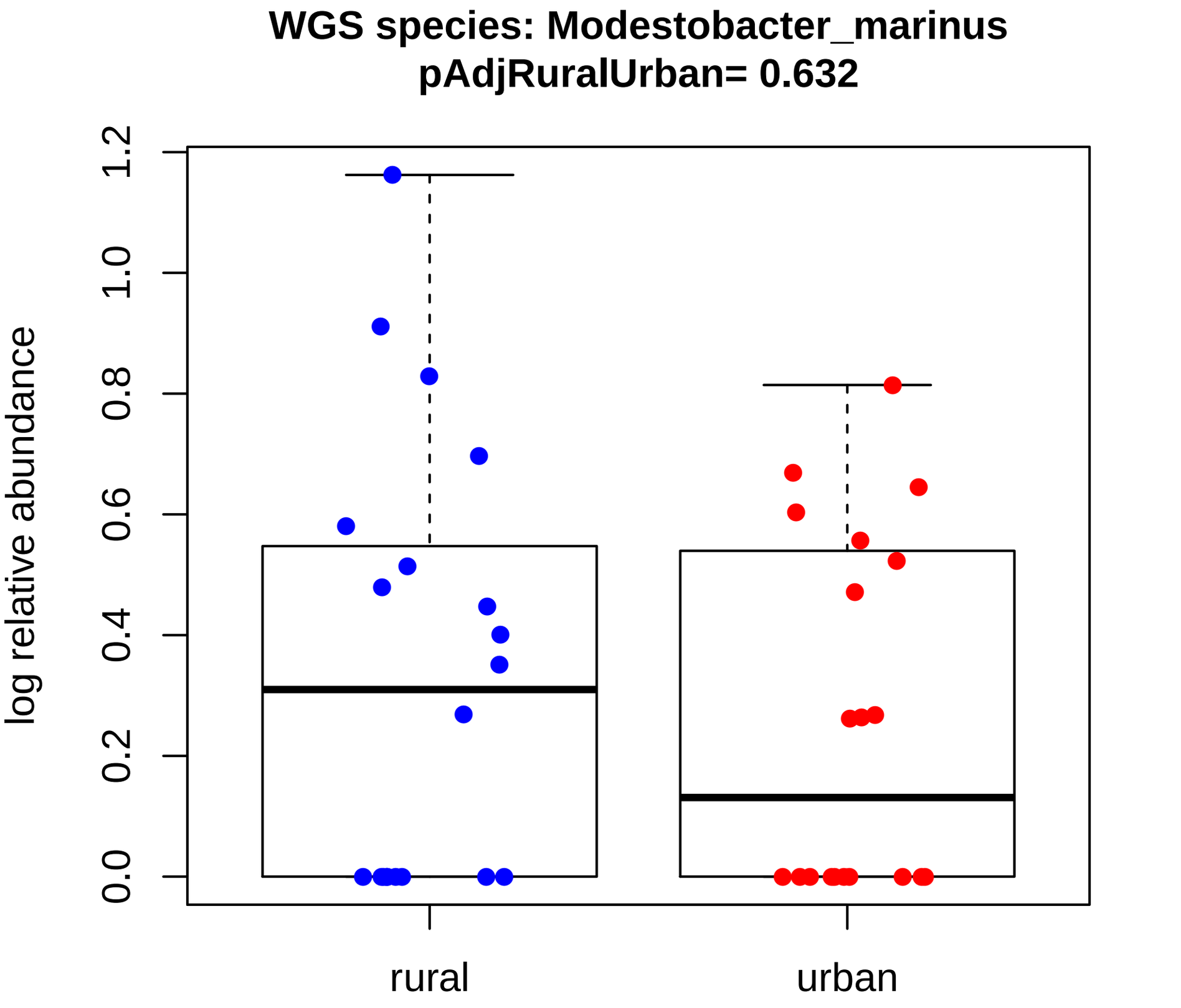

WGS species: Leisingera_methylohalidivorans
pAdjRuralUrban= 0.627
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

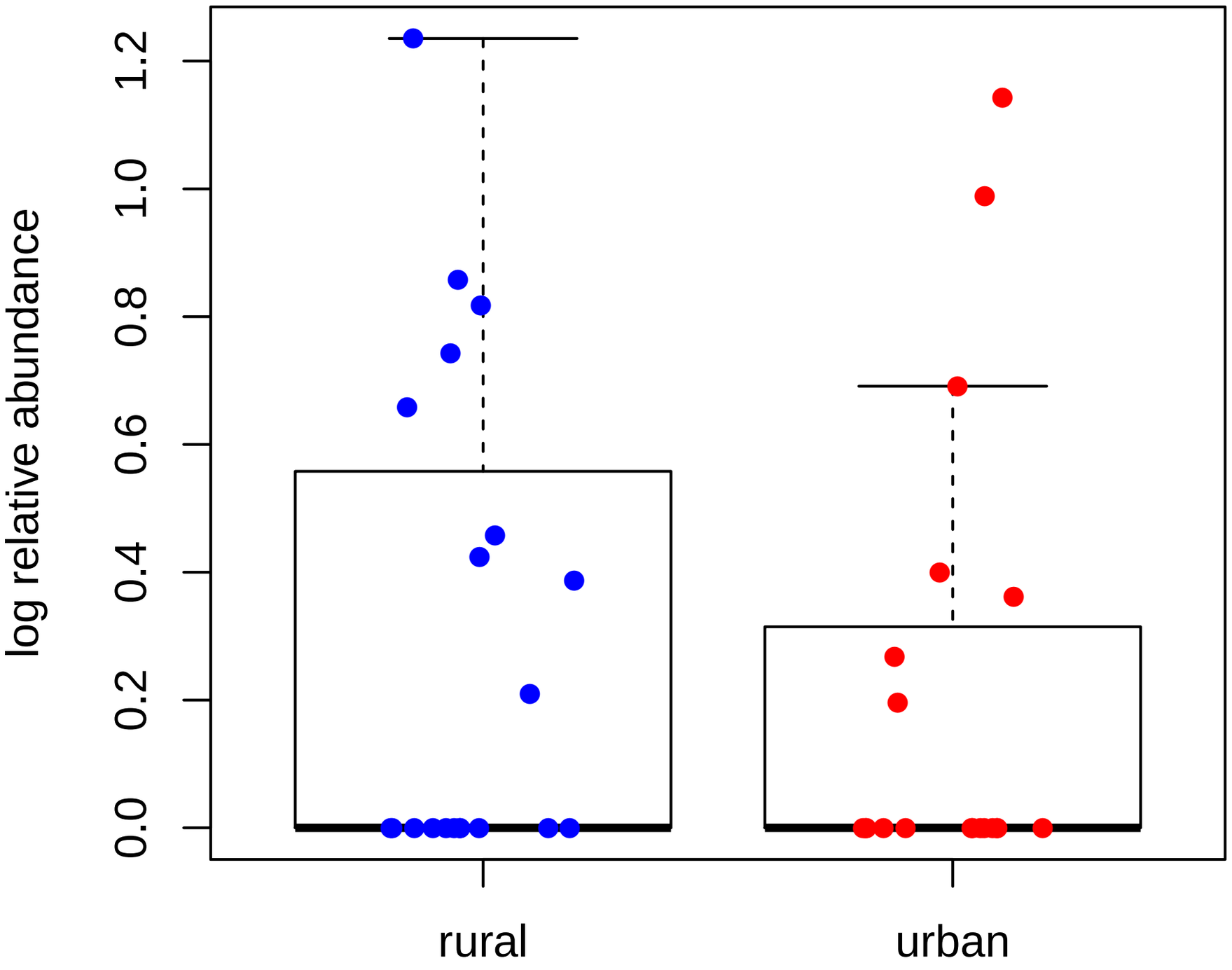

WGS species: Mycobacterium_smegmatis
pAdjRuralUrban= 0.629
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

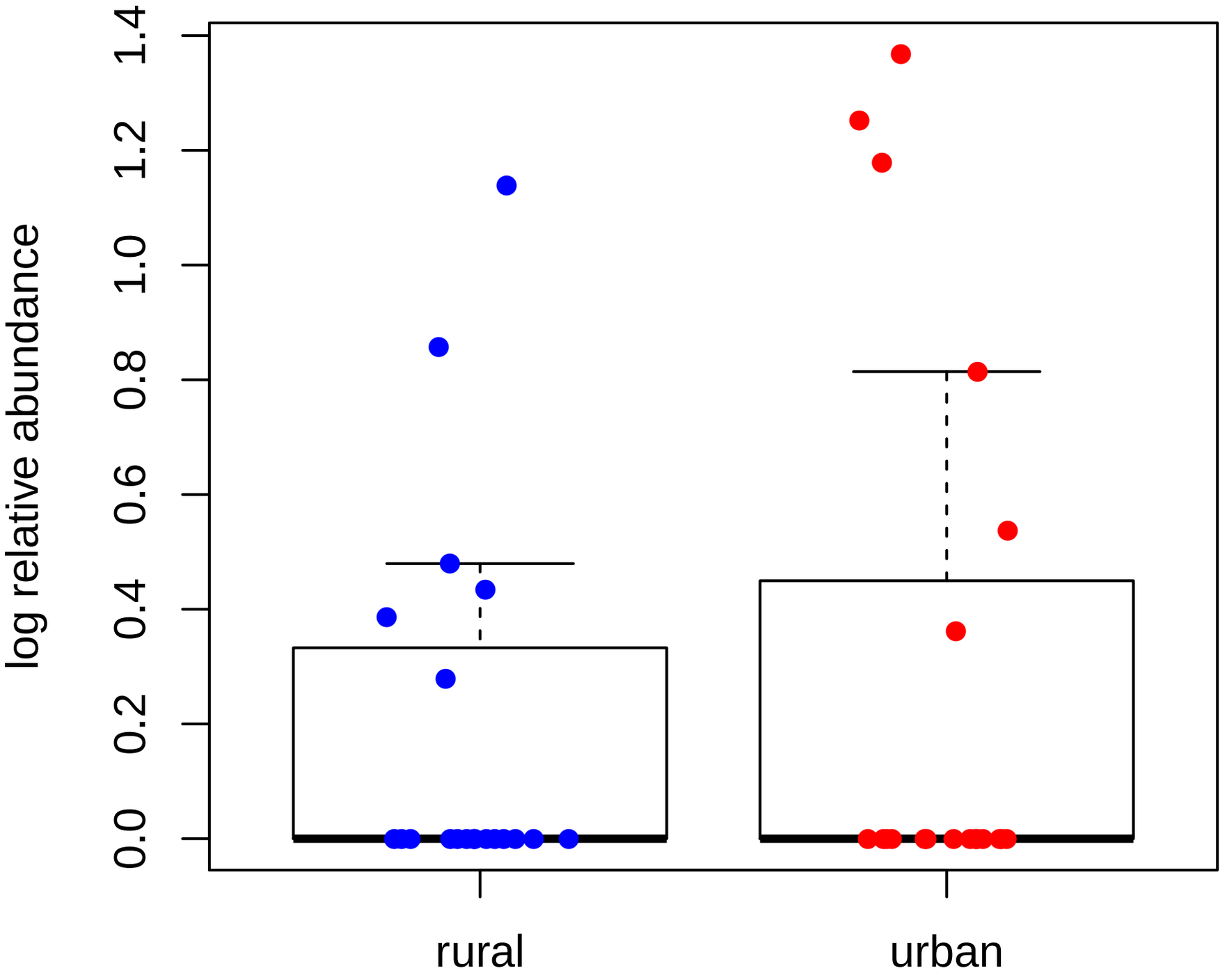

WGS species: Ornithobacterium_rhinotracheale
pAdjRuralUrban= 0.629
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

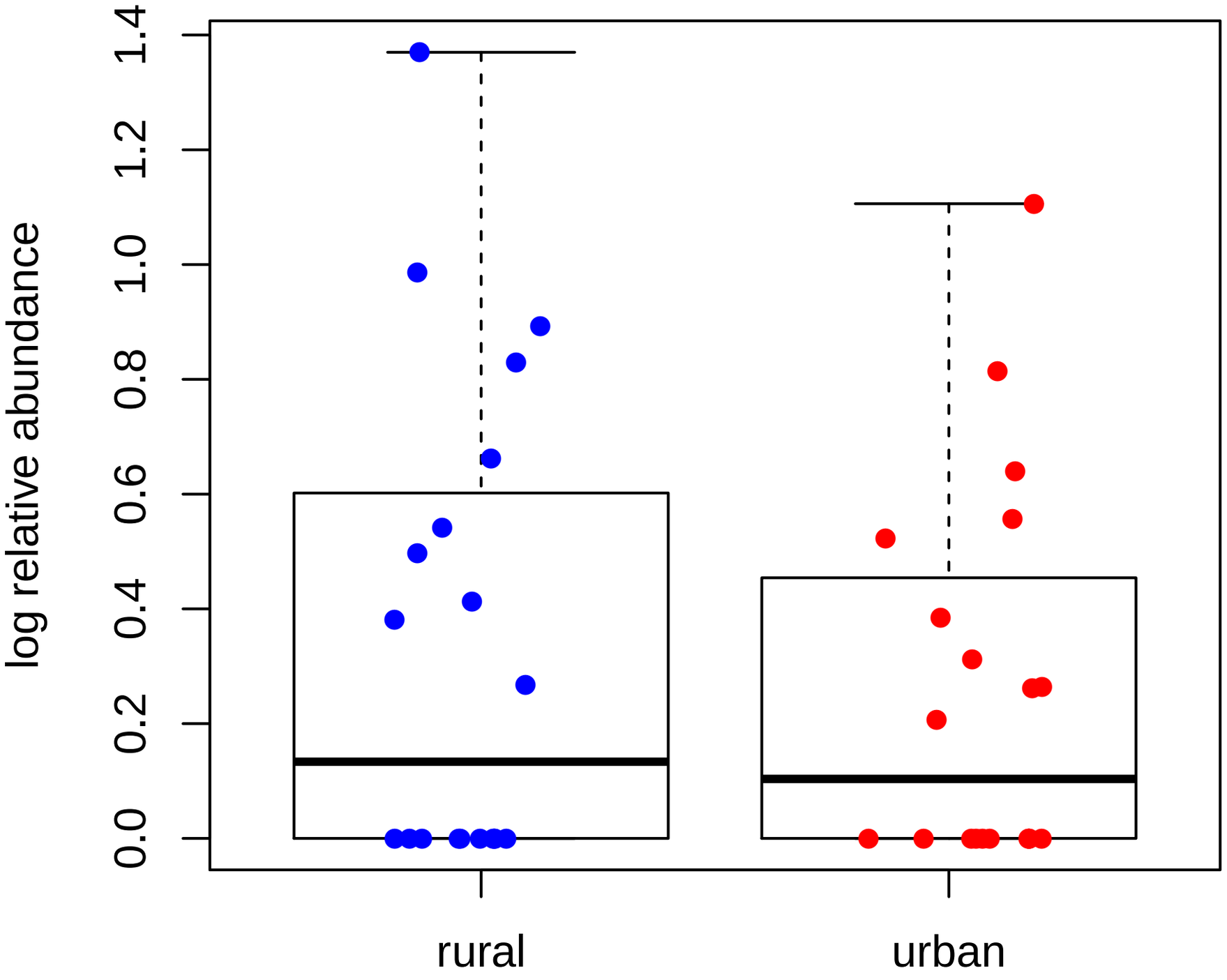

WGS species: Candidatus_Portiera_aleyrodidarum
pAdjRuralUrban= 0.632
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

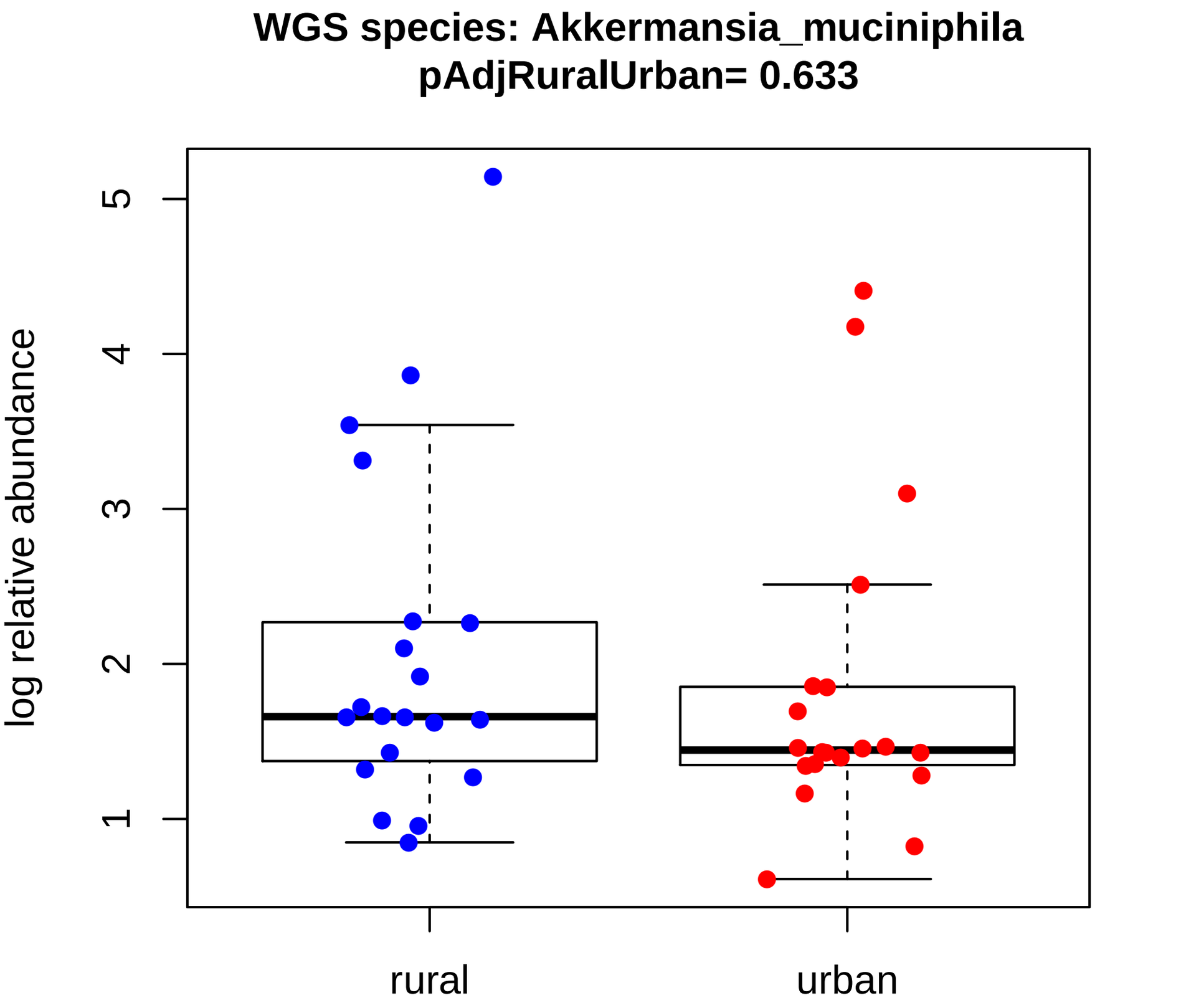

WGS species: Rhodoferax_ferrireducens
pAdjRuralUrban= 0.632
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

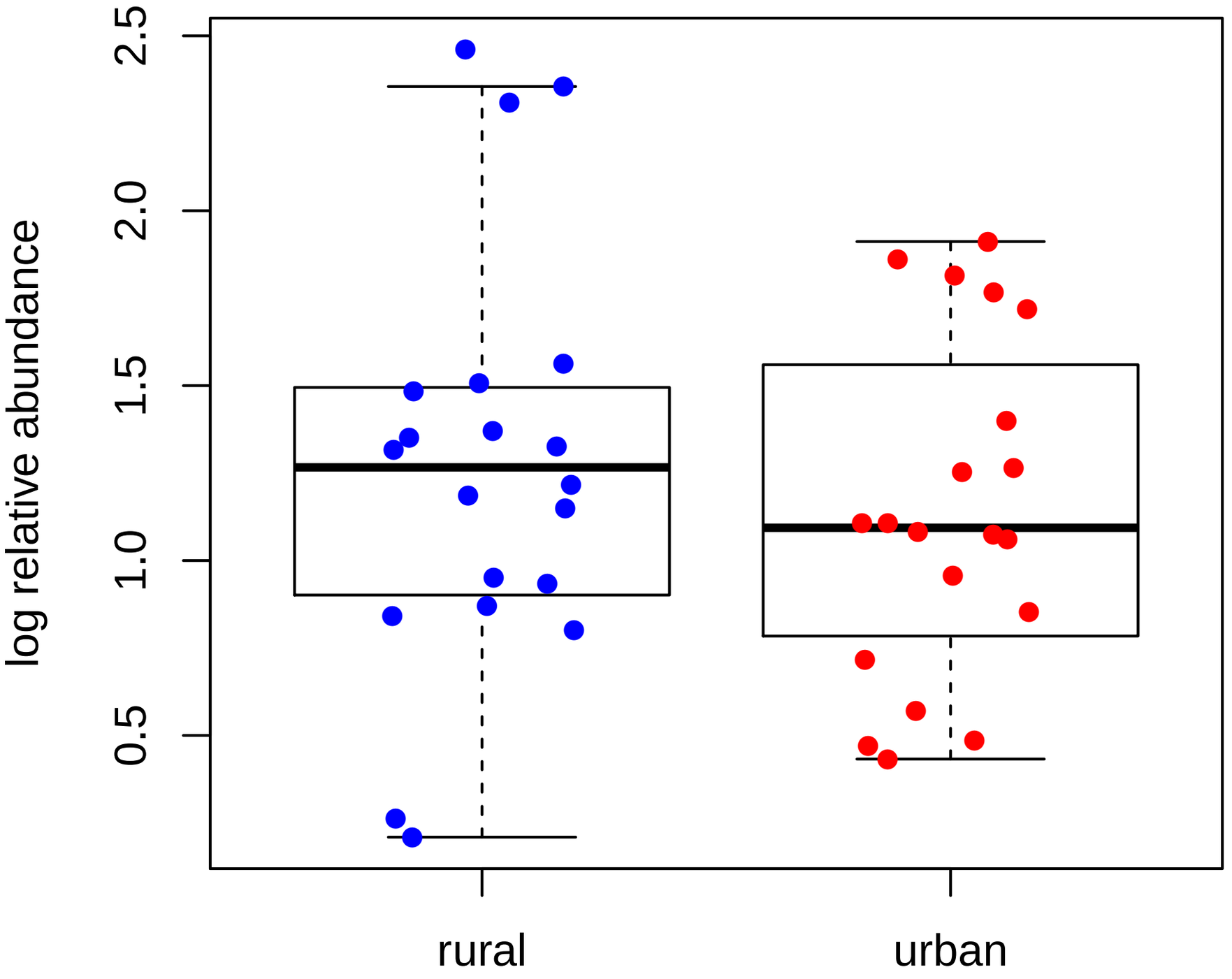

WGS species: Modestobacter_marinus
pAdjRuralUrban= 0.632
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

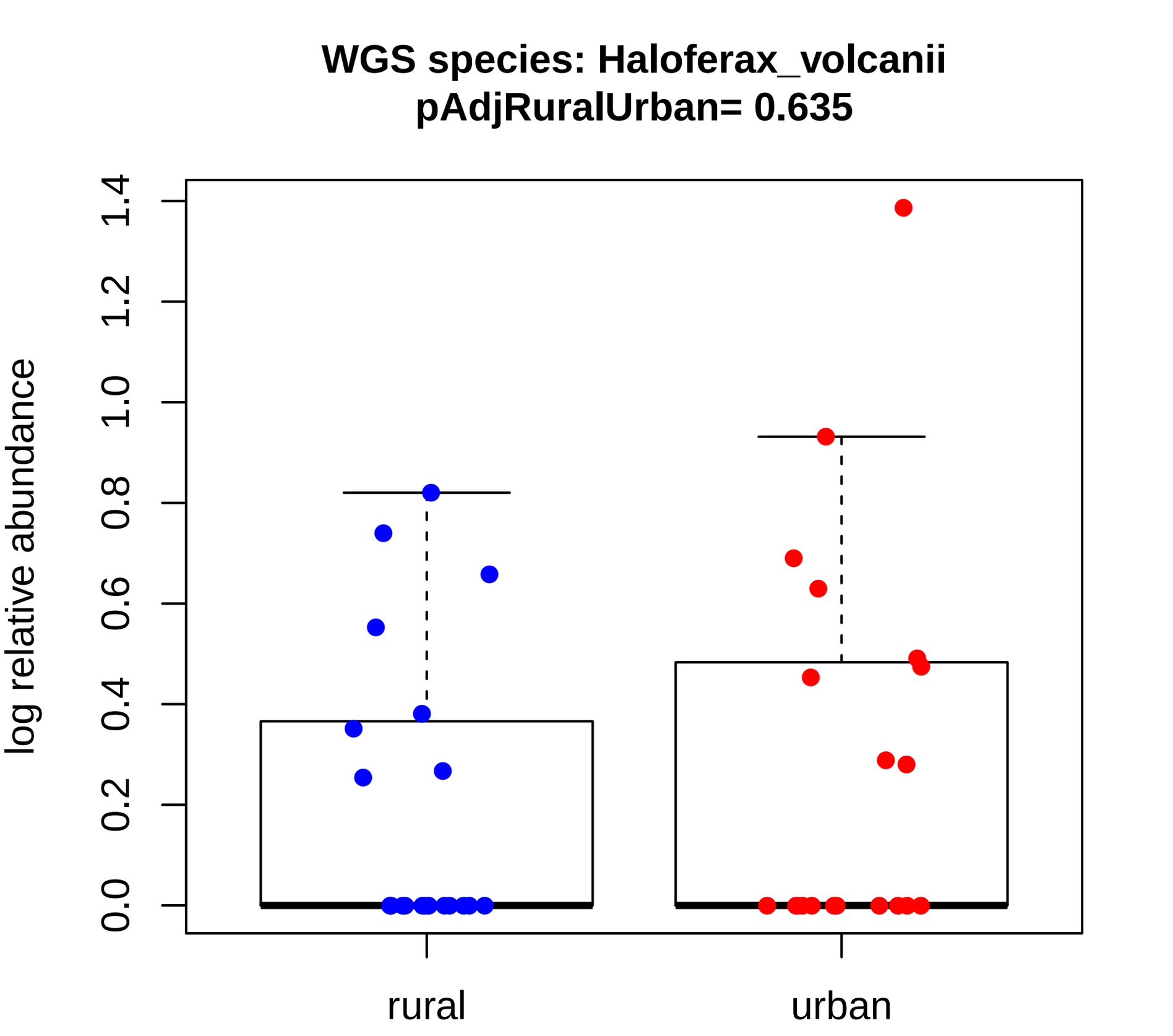

WGS species: Ehrlichia_ruminantium
pAdjRuralUrban= 0.632
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

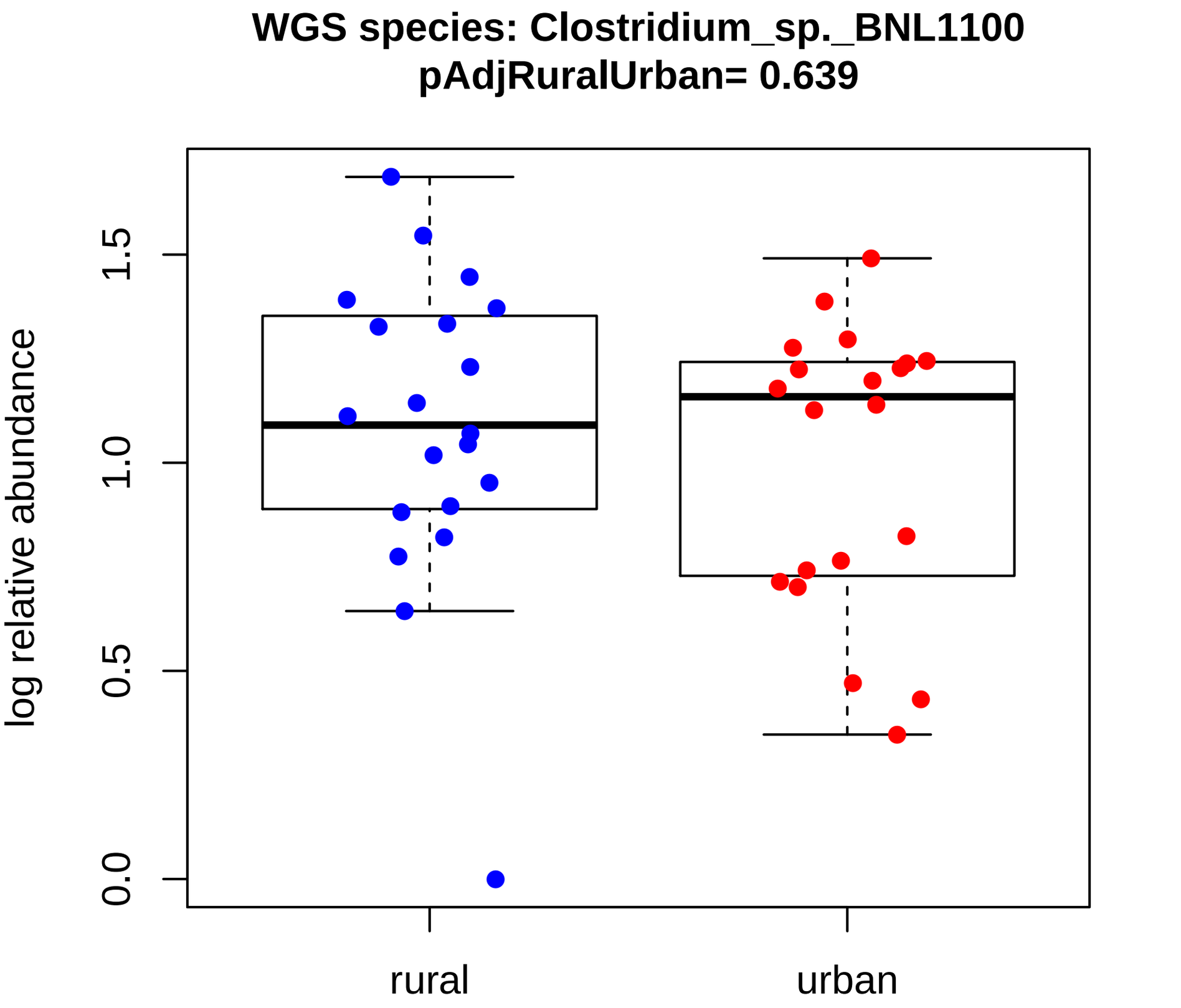

WGS species: Bacteroides_phage_B124.14
pAdjRuralUrban= 0.633
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

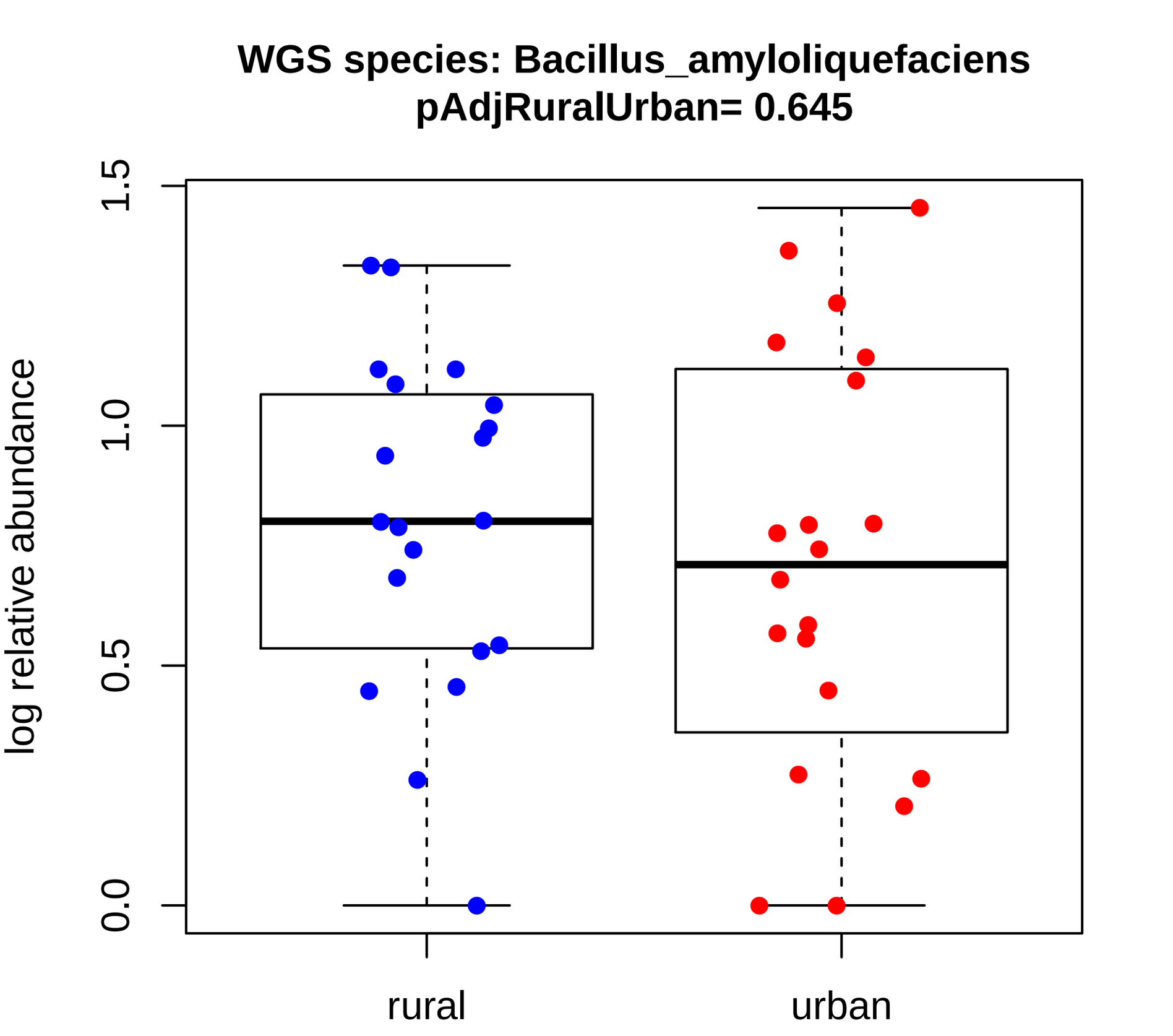

WGS species: Staphylococcus_pasteuri
pAdjRuralUrban= 0.633
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

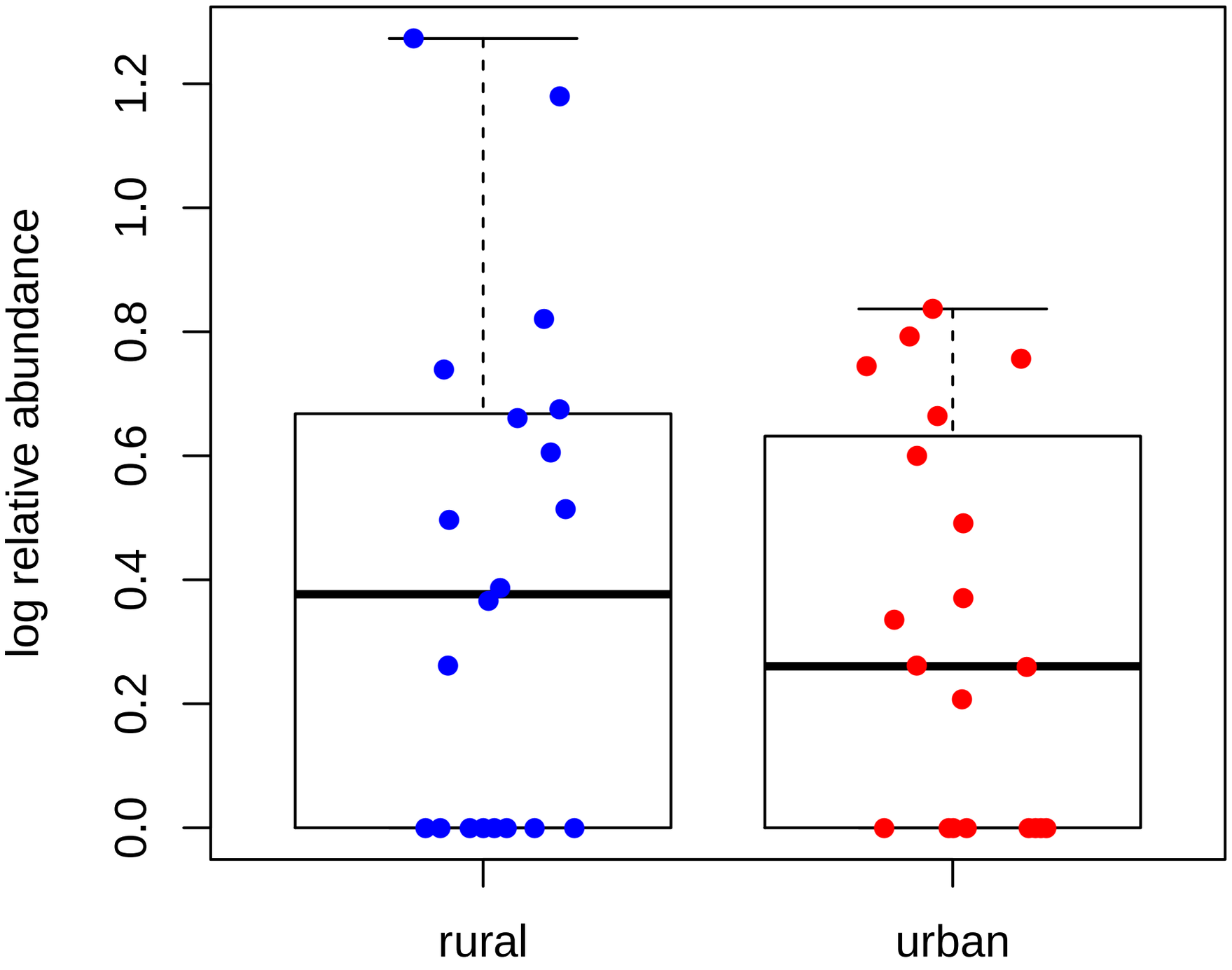

WGS species: Akkermansia_muciniphila
pAdjRuralUrban= 0.633
log relative abundance
1
2
3
4
5
rural
urban

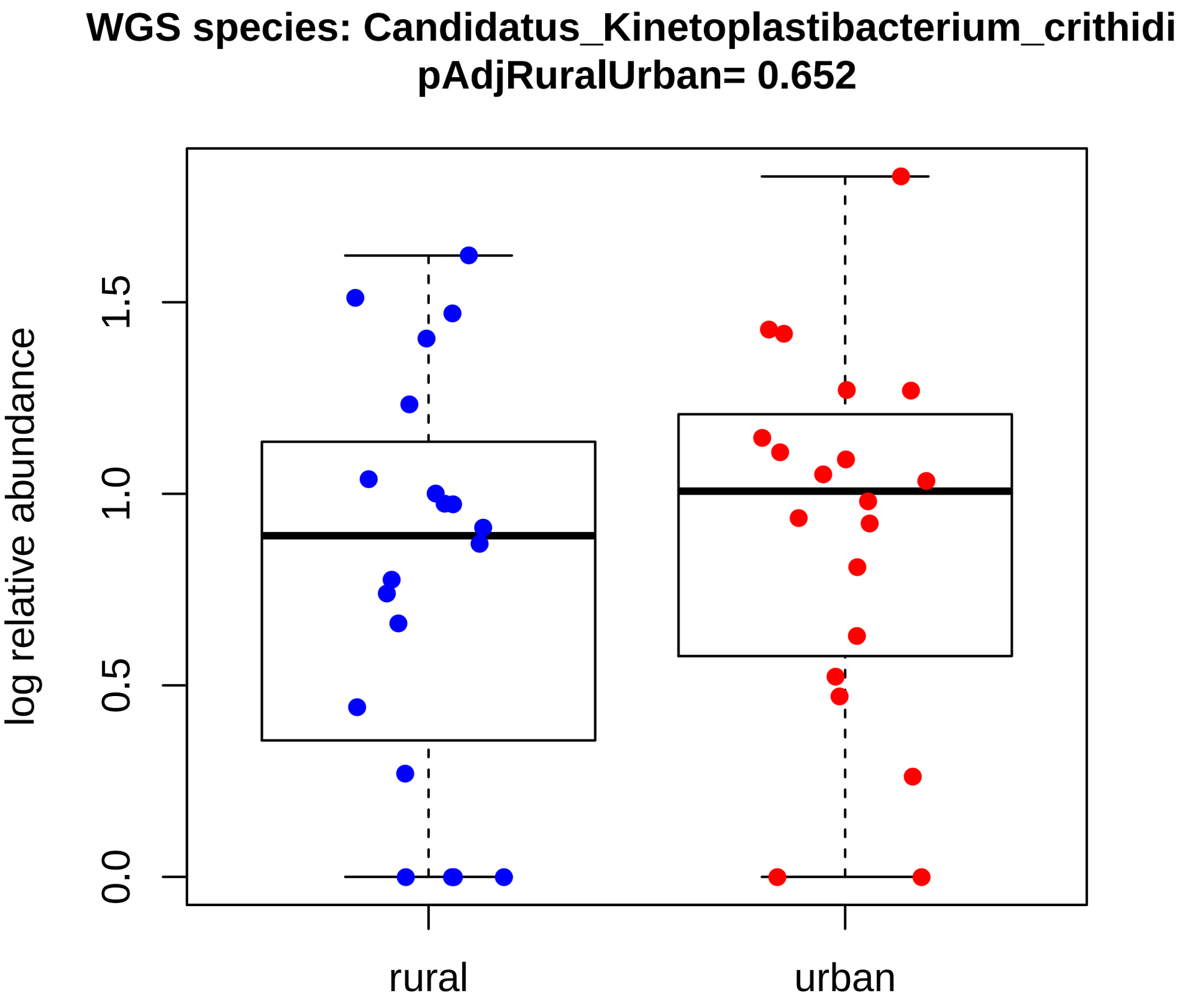

WGS species: Brachyspira_pilosicoli
pAdjRuralUrban= 0.633
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

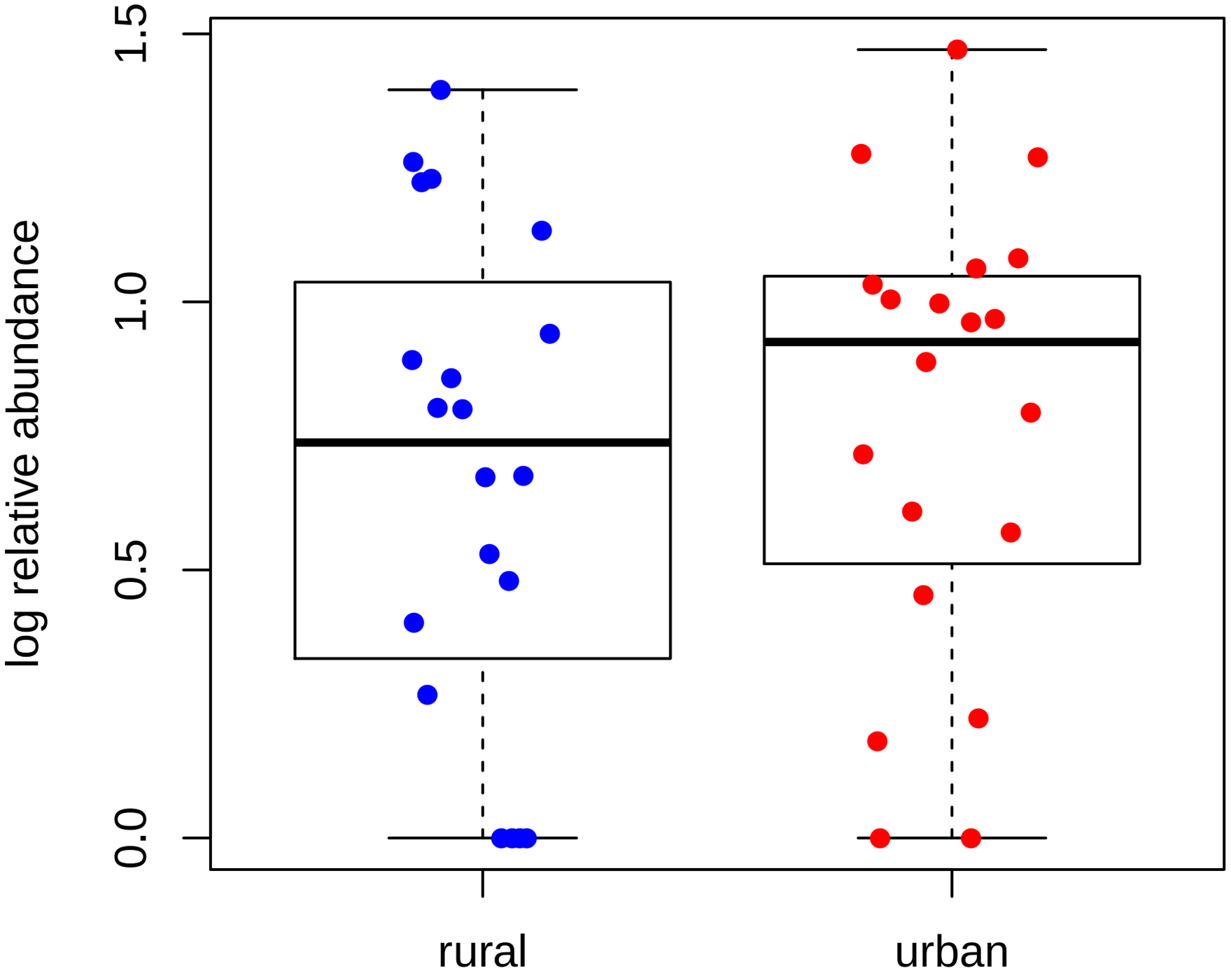

WGS species: Haloferax_volcanii
pAdjRuralUrban= 0.635
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

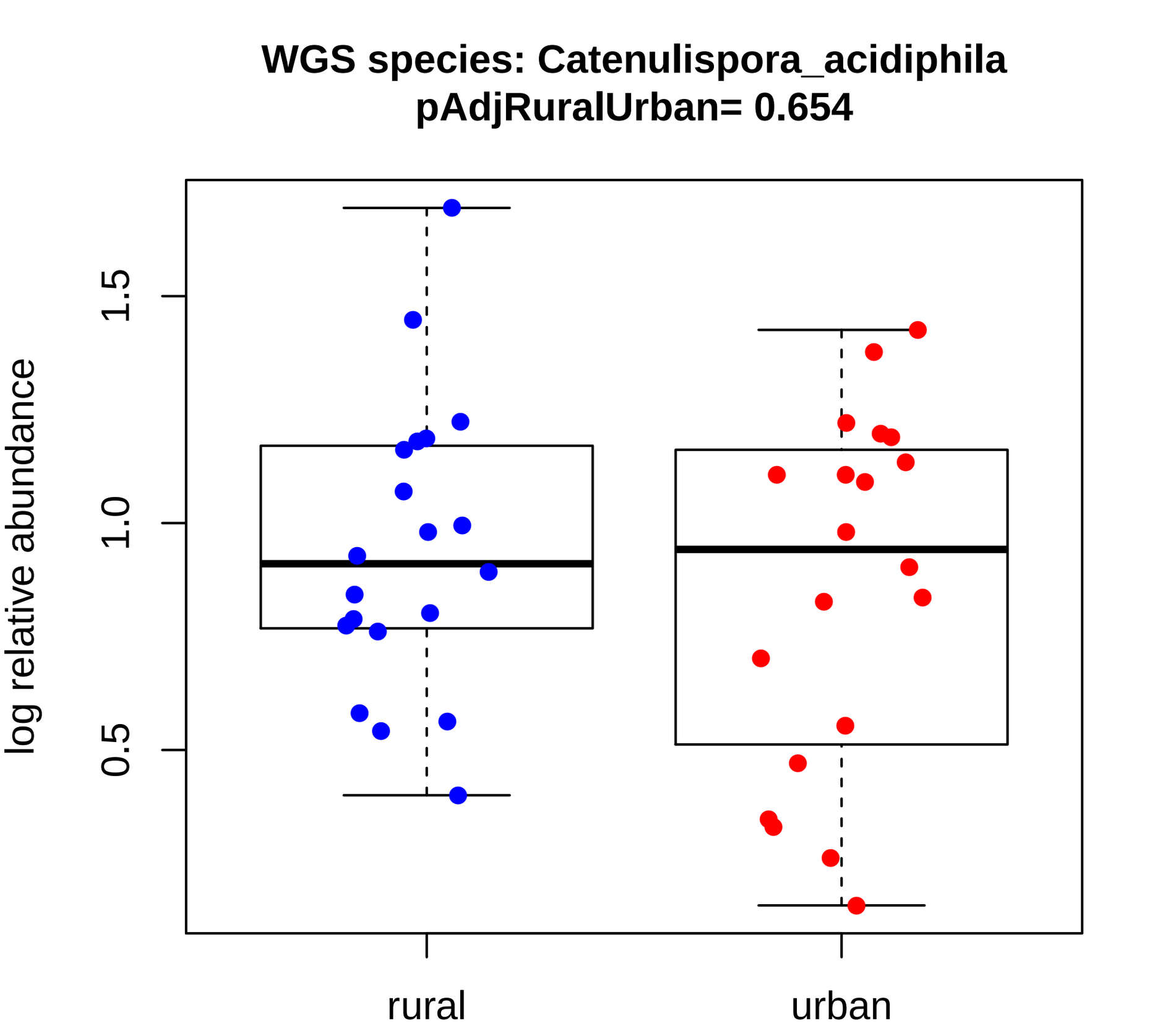

WGS species: Clostridium_sp._BNL1100
pAdjRuralUrban= 0.639
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

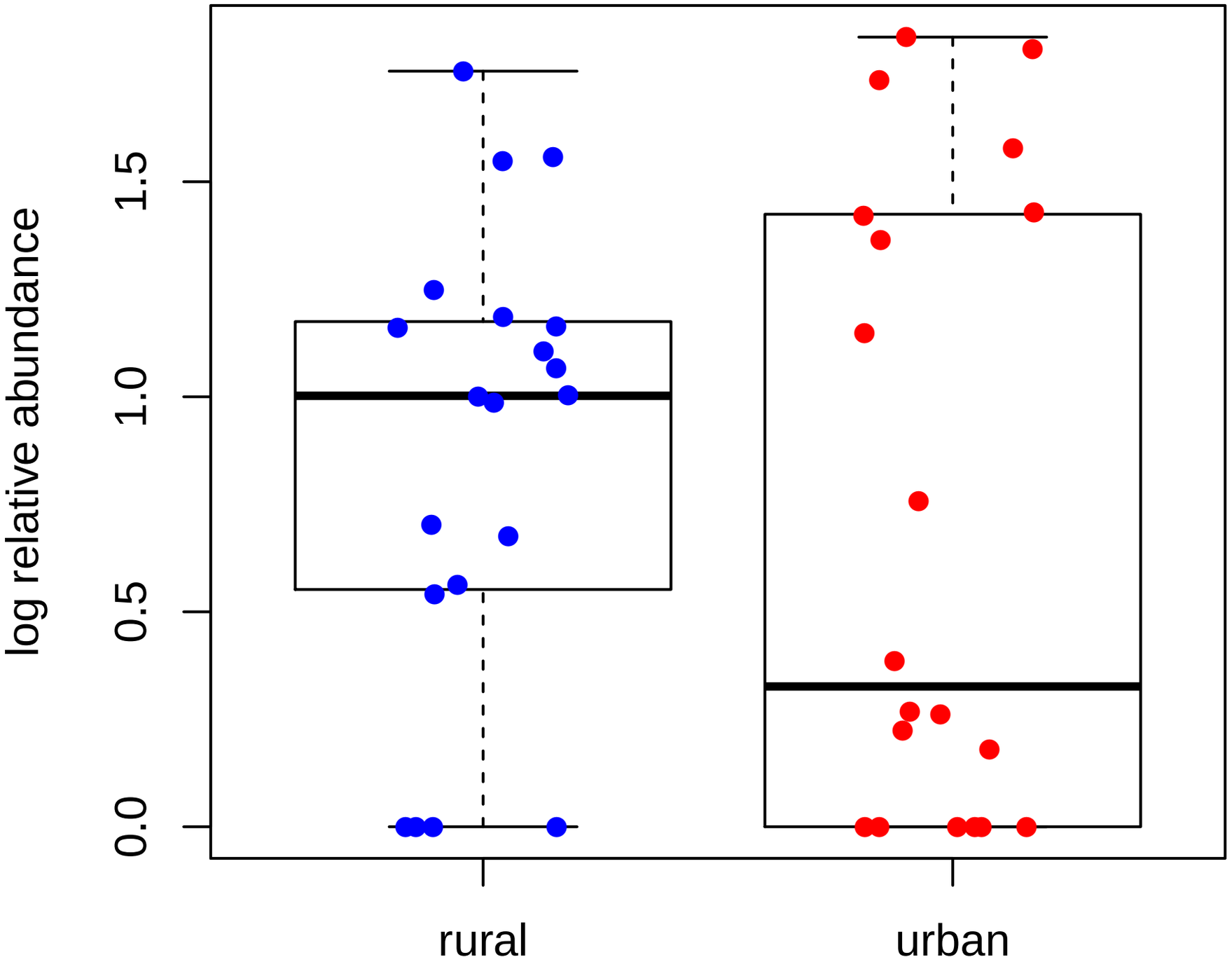

WGS species: Bacillus_amyloliquefaciens
pAdjRuralUrban= 0.645
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

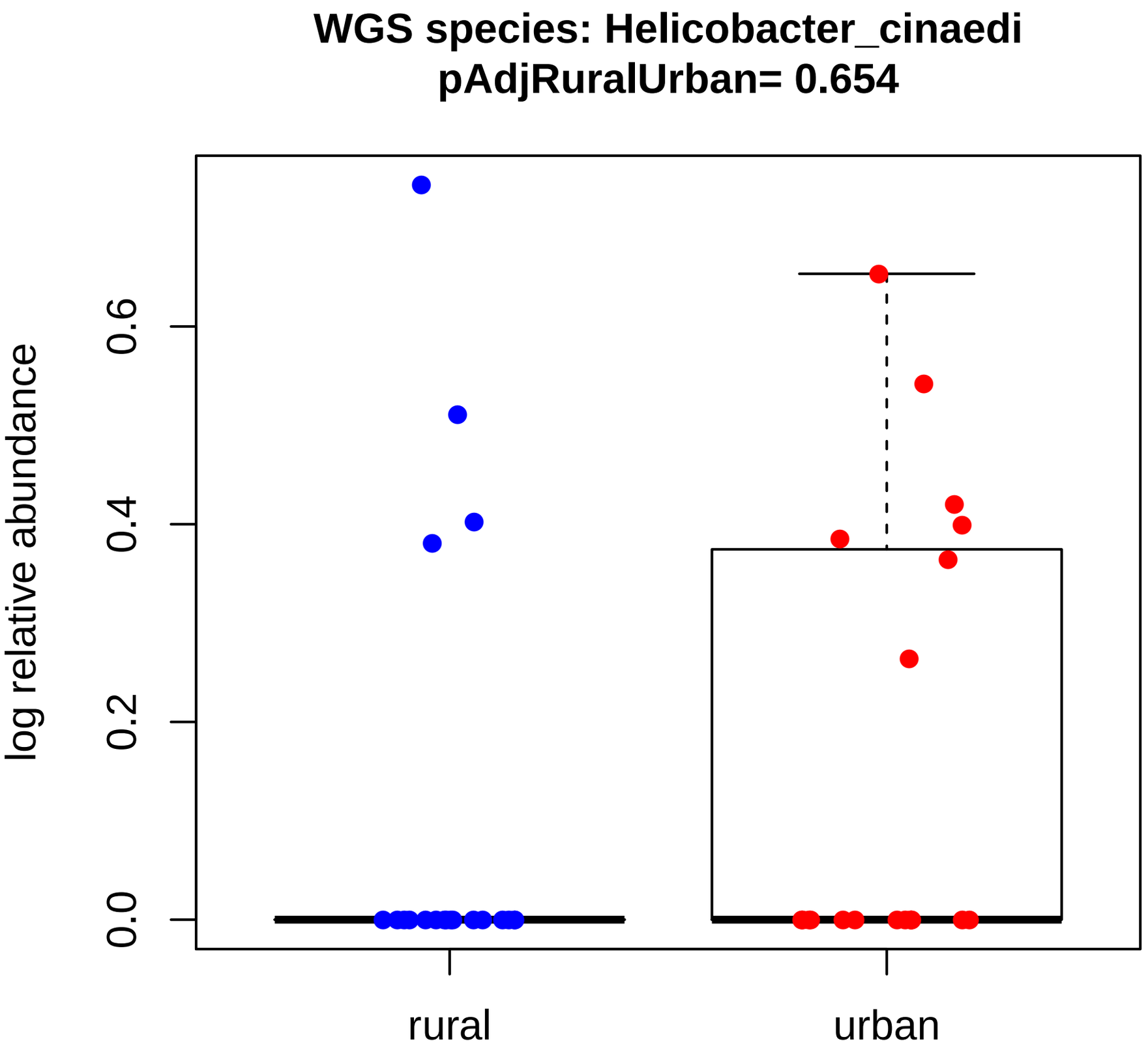

WGS species: Glaciecola_psychrophila
pAdjRuralUrban= 0.651
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

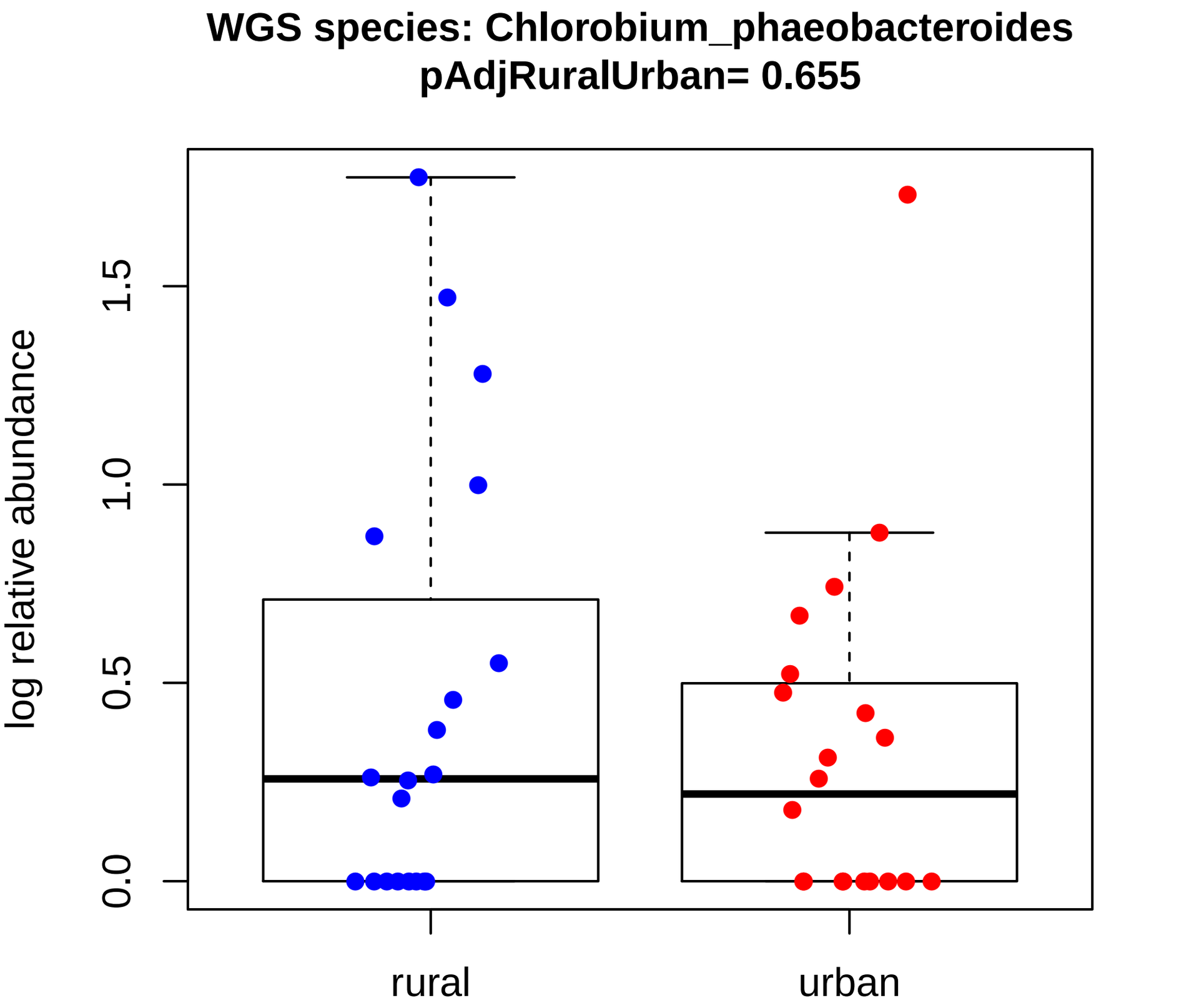

WGS species: Candidatus_Kinetoplastibacterium_crithidii
pAdjRuralUrban= 0.652
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

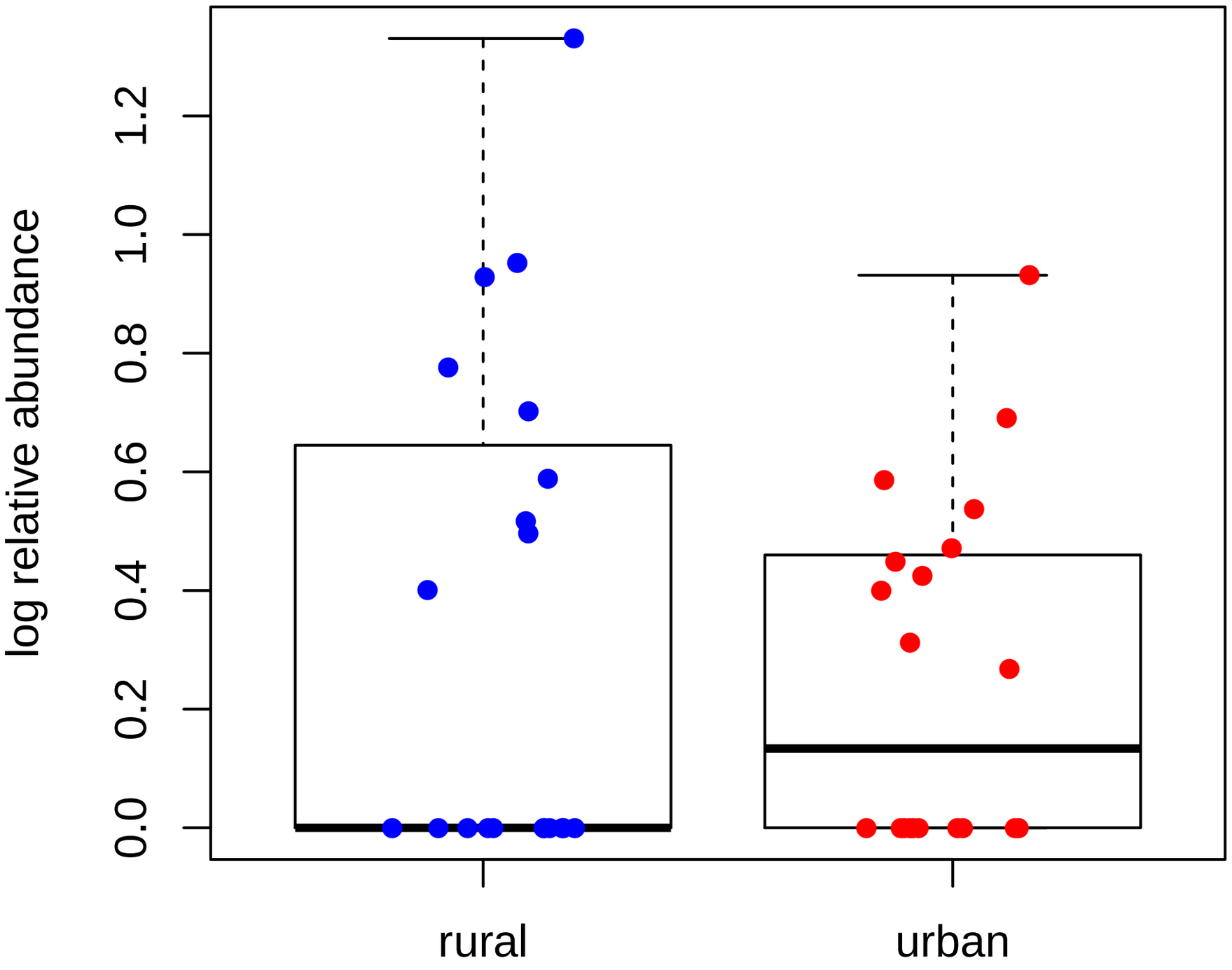

WGS species: Sulfurimonas_autotrophica
pAdjRuralUrban= 0.652
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

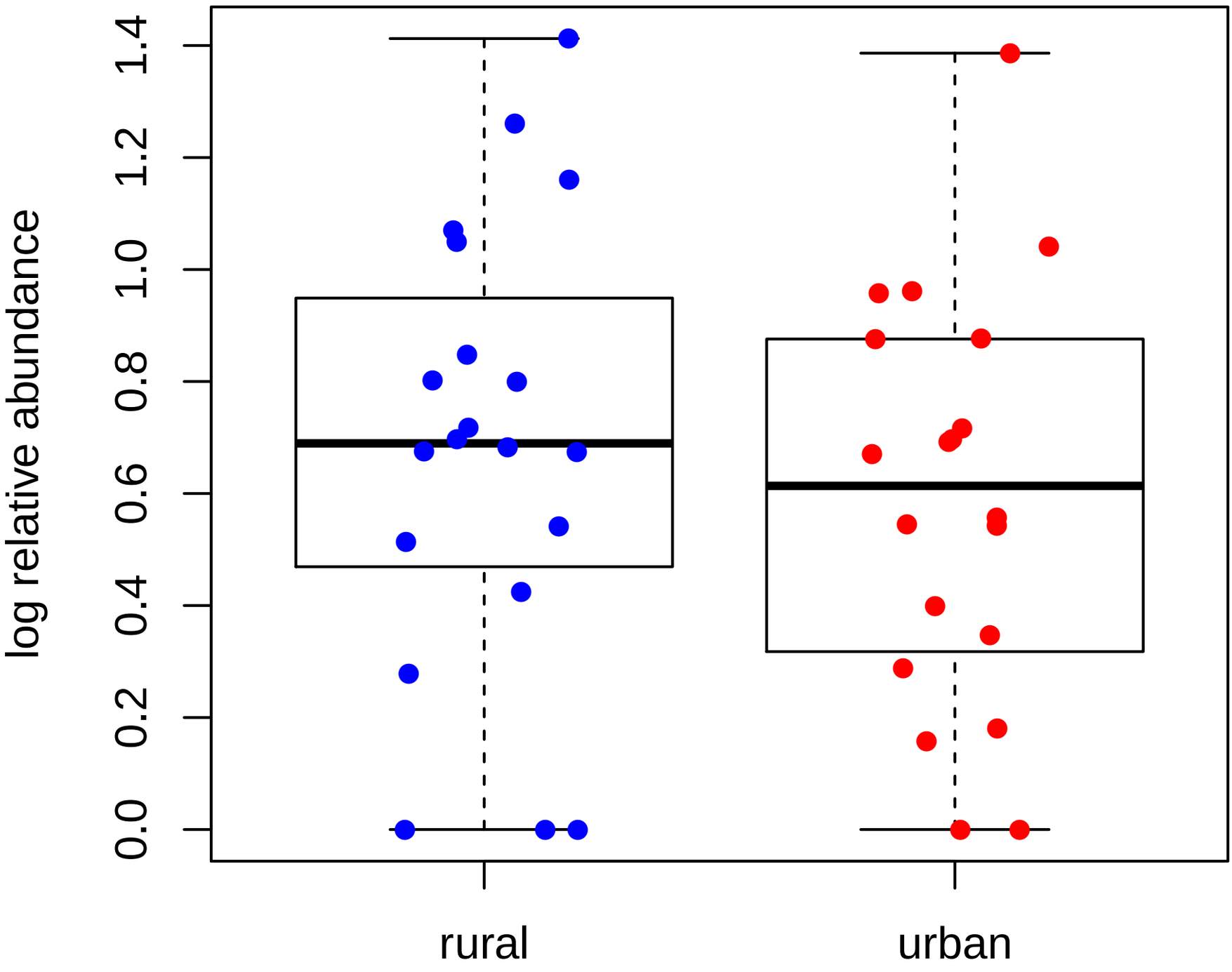

WGS species: Catenulispora_acidiphila
pAdjRuralUrban= 0.654
log relative abundance
0.5
1.0
1.5
rural
urban

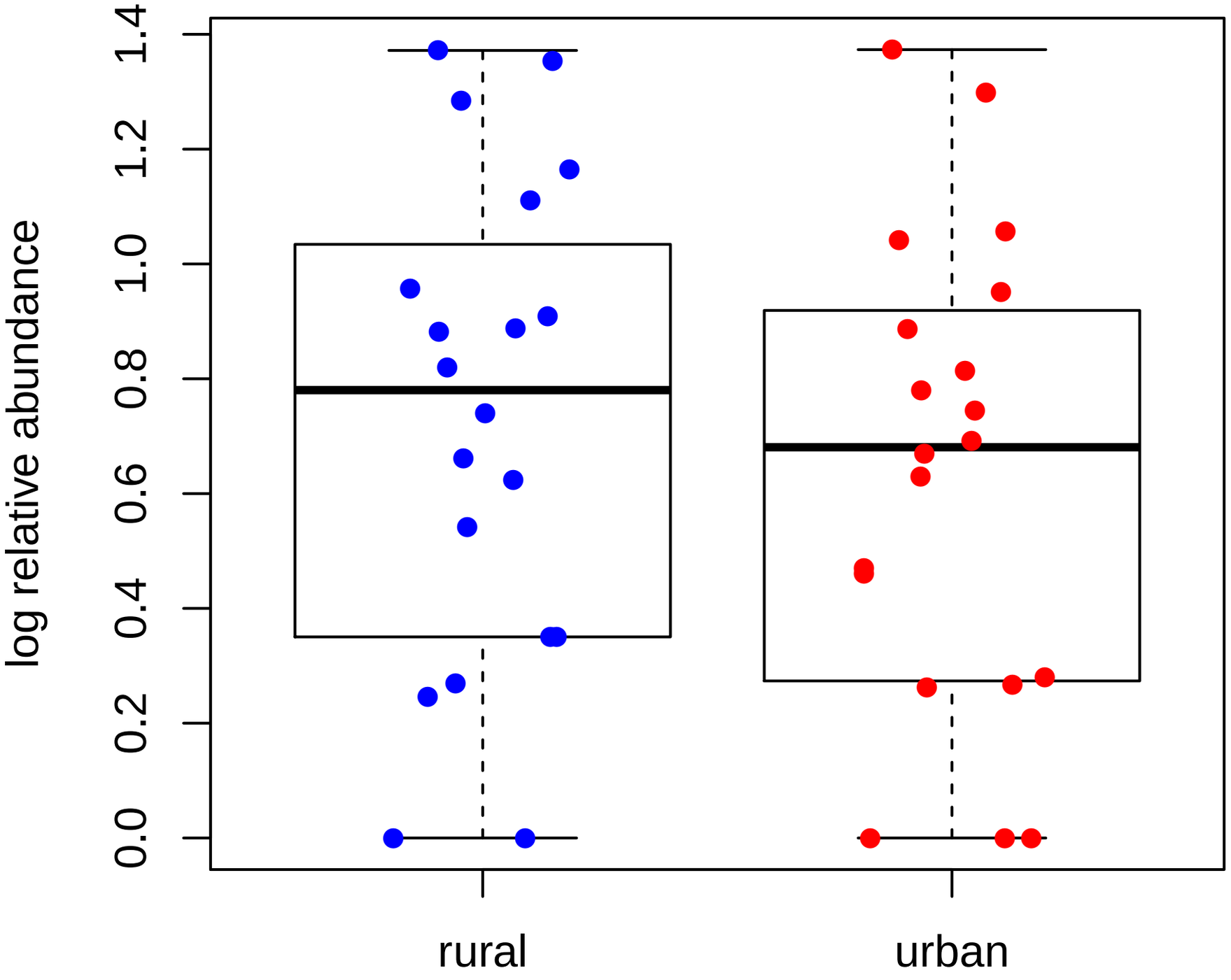

WGS species: Chloroherpeton_thalassium
pAdjRuralUrban= 0.654
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

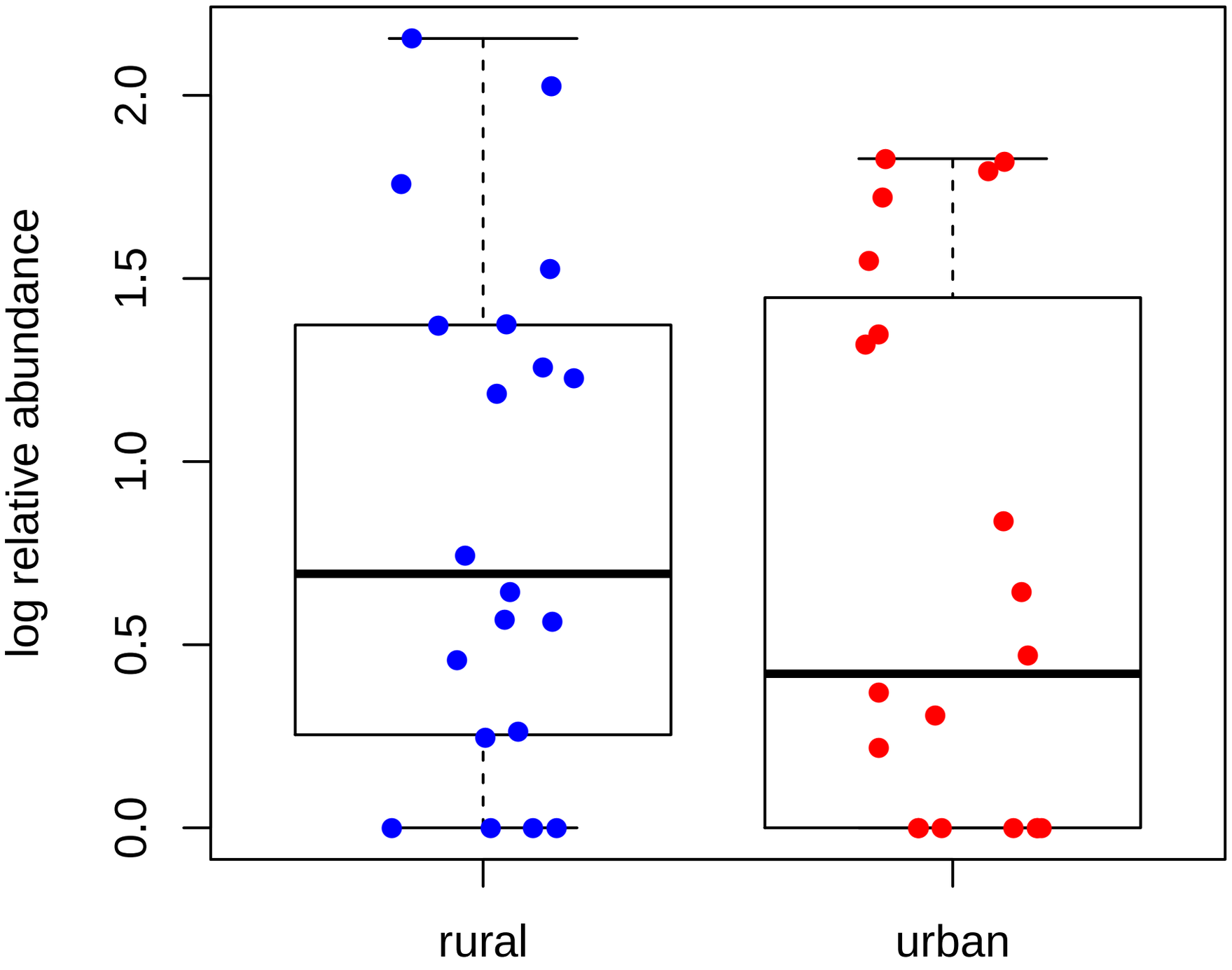

WGS species: Helicobacter_cinaedi
pAdjRuralUrban= 0.654
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

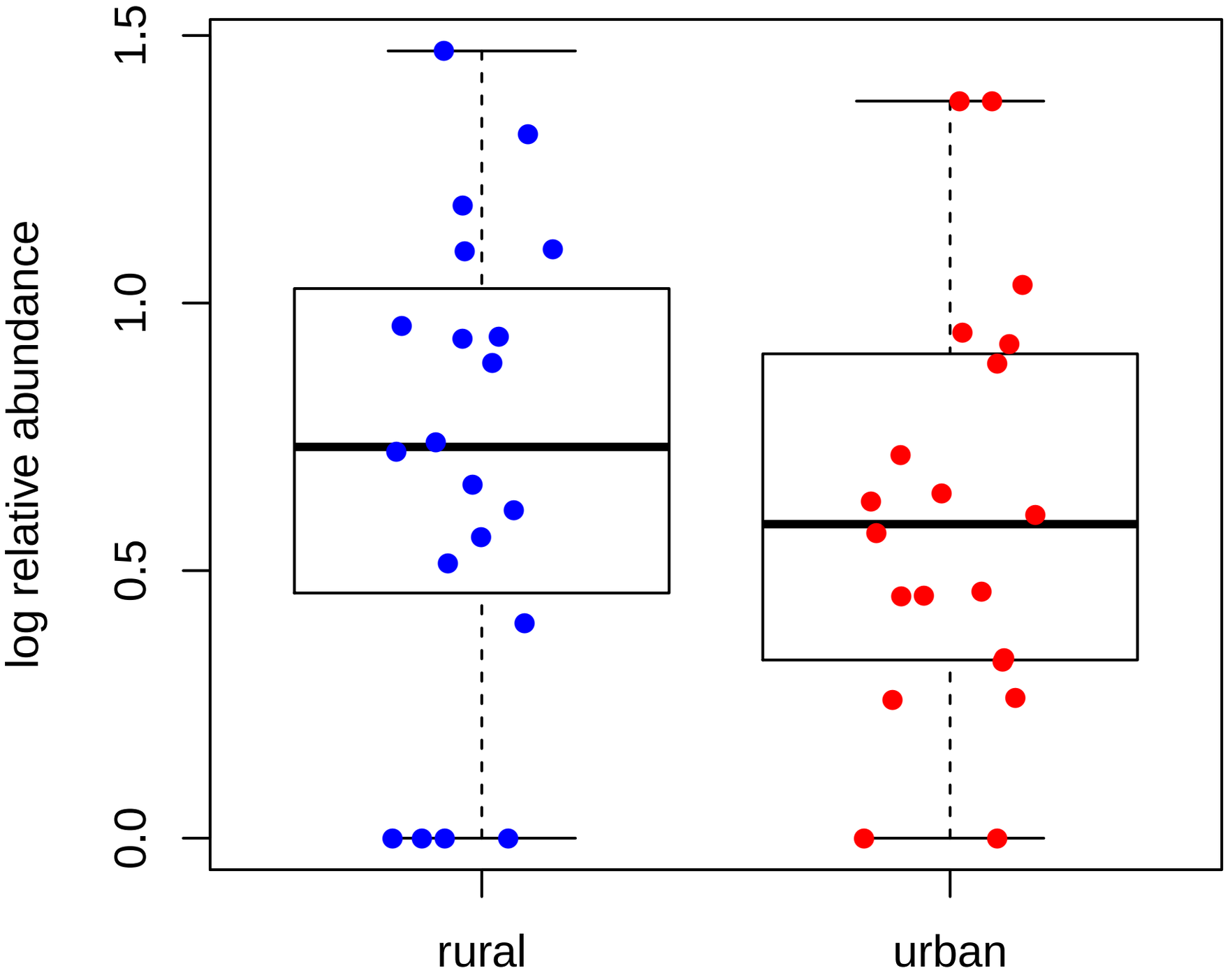

WGS species: Chlorobium_phaeobacteroides
pAdjRuralUrban= 0.655
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

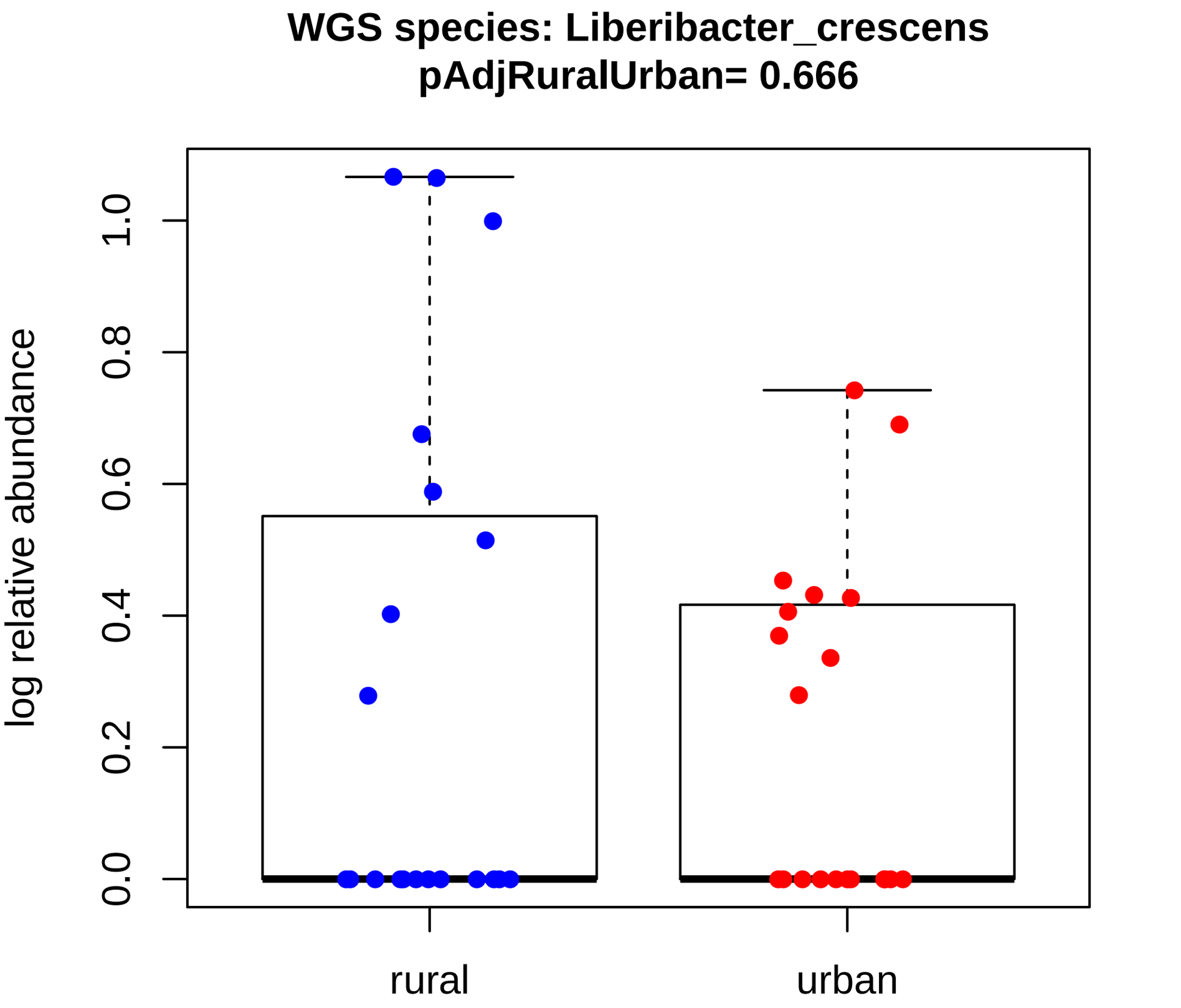

WGS species: Leptolyngbya_sp._PCC_7376
pAdjRuralUrban= 0.656
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

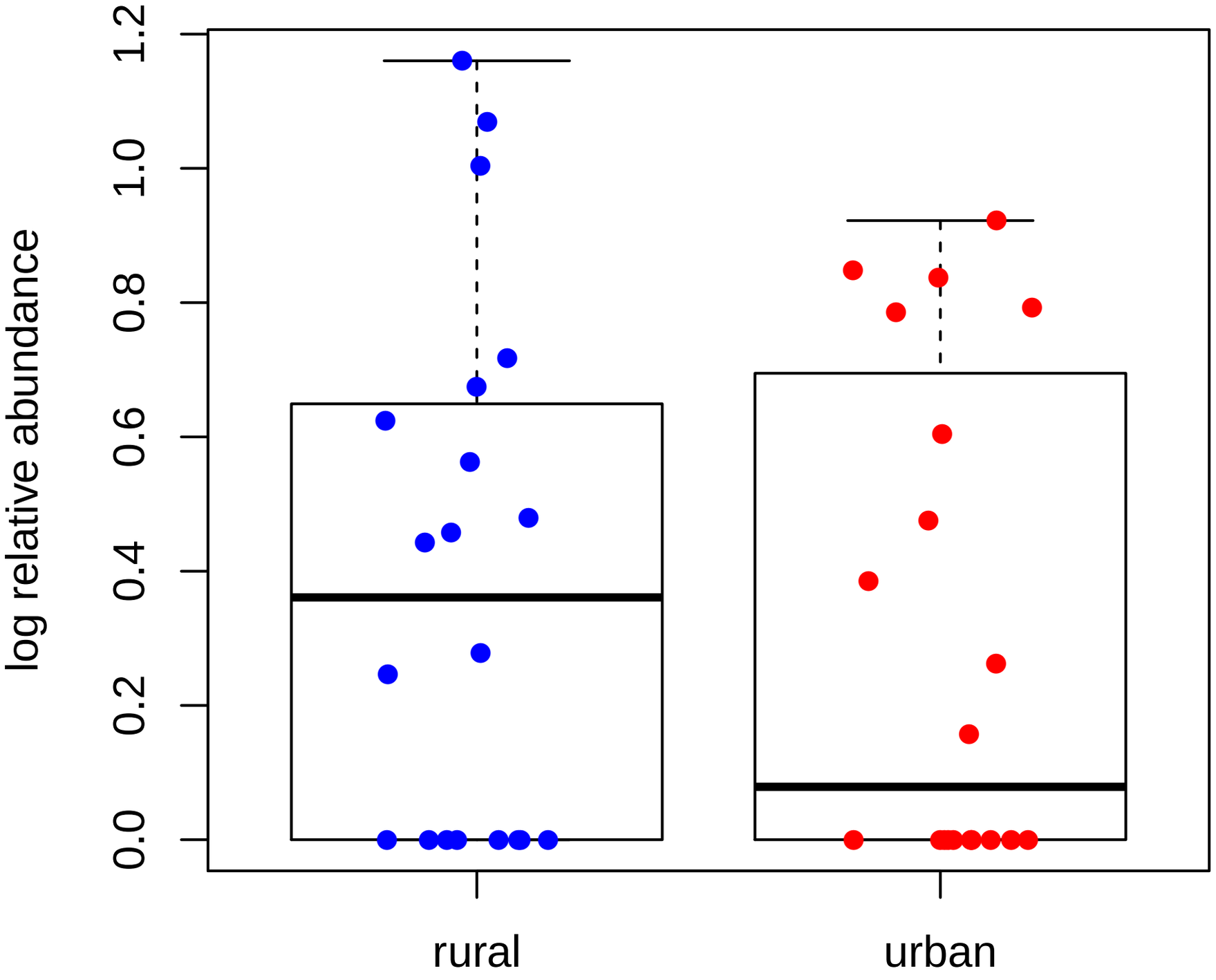

WGS species: Thermomonospora_curvata
pAdjRuralUrban= 0.656
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

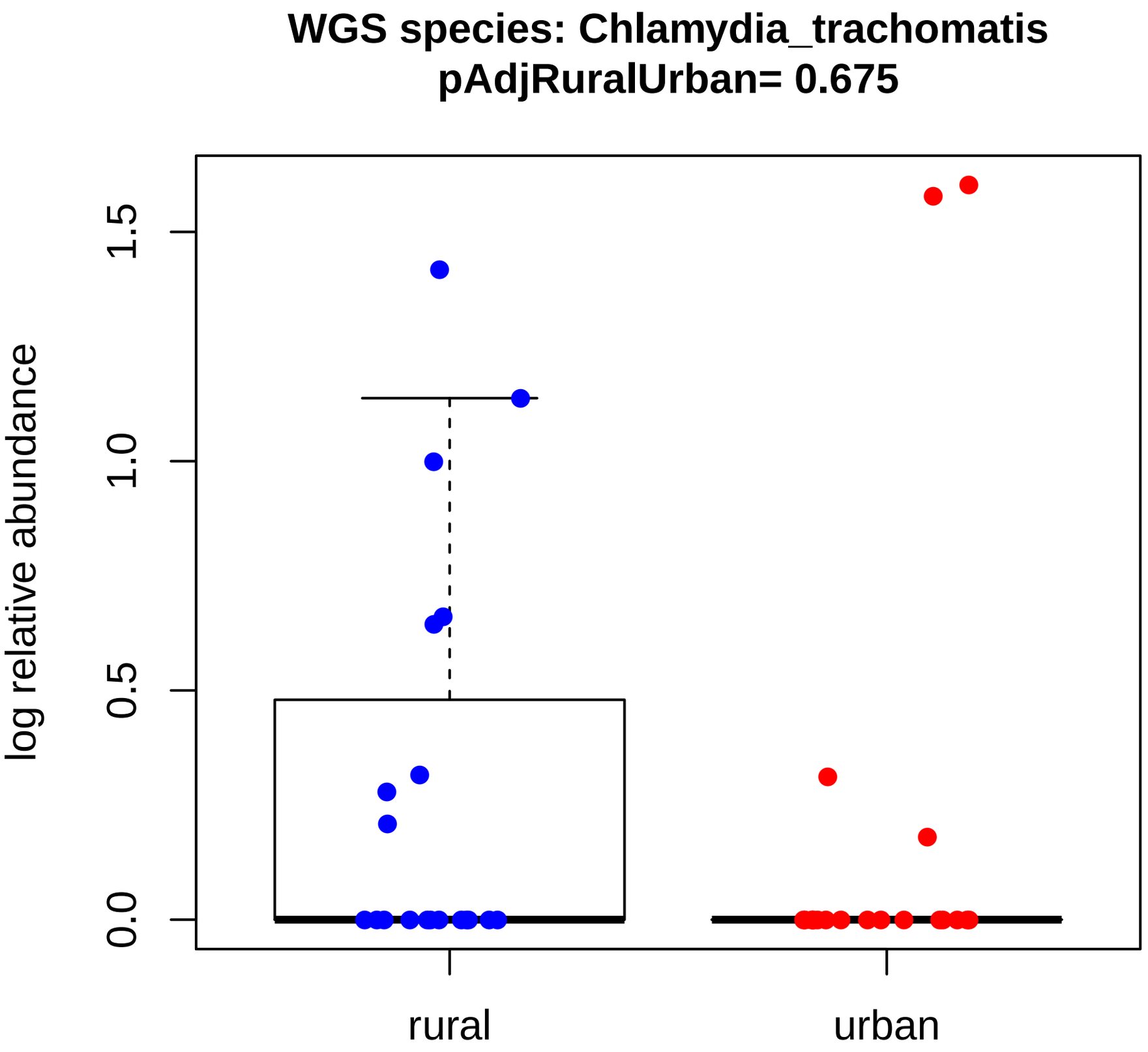

WGS species: Pandoraea_sp._RB.44
pAdjRuralUrban= 0.66
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

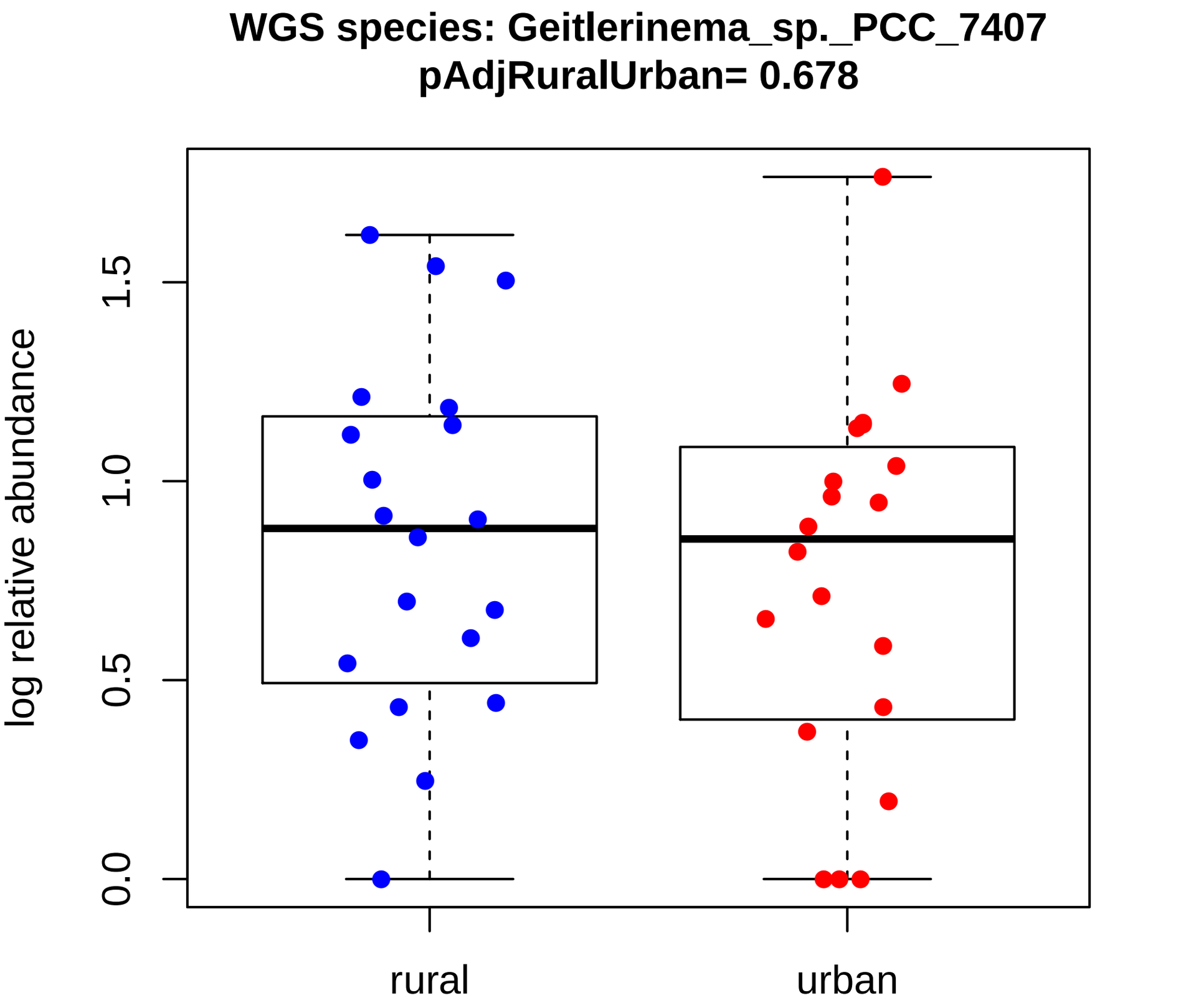

WGS species: Colwellia_psychrerythraea
pAdjRuralUrban= 0.663
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

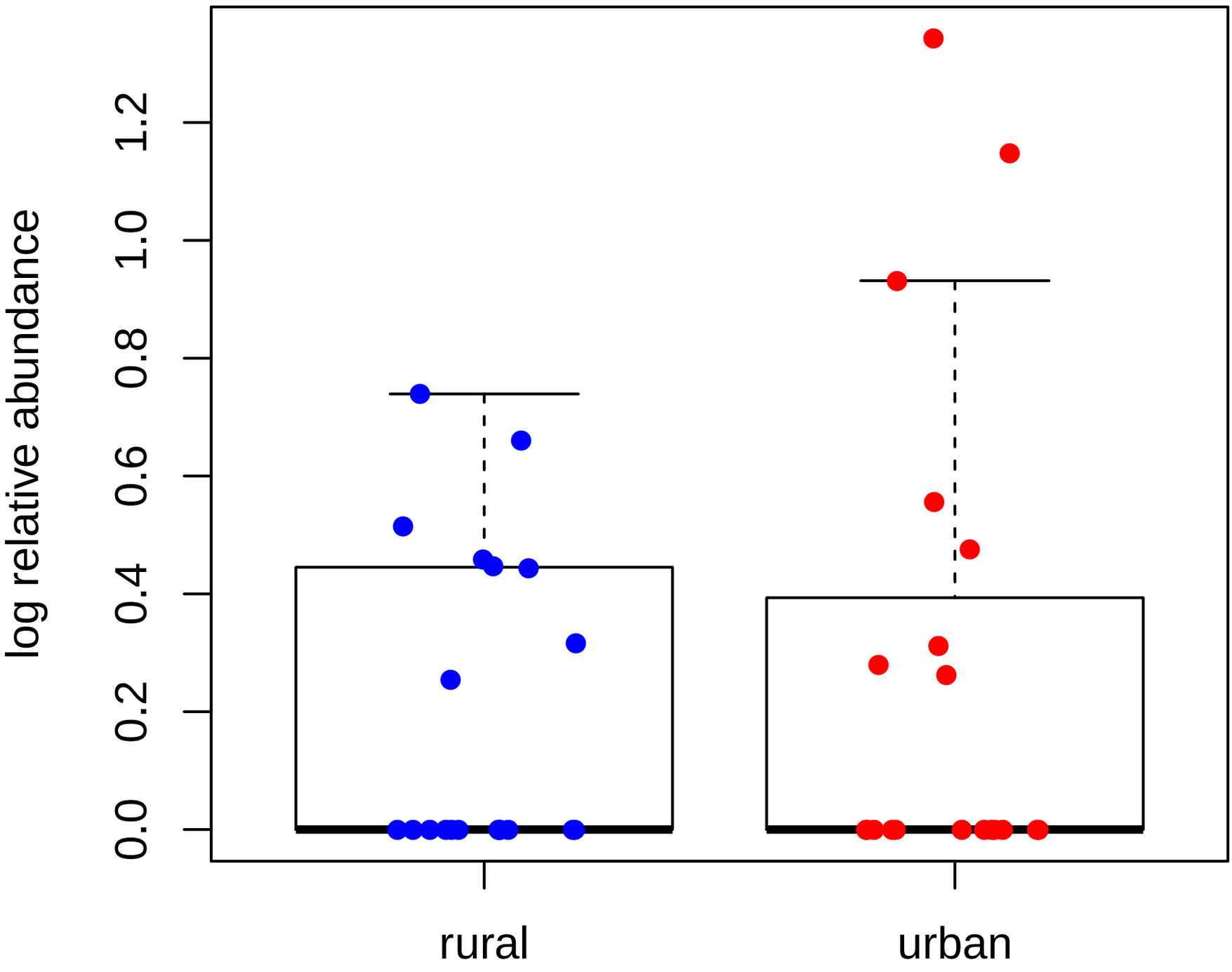

WGS species: Gluconacetobacter_diazotrophicus
pAdjRuralUrban= 0.664
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

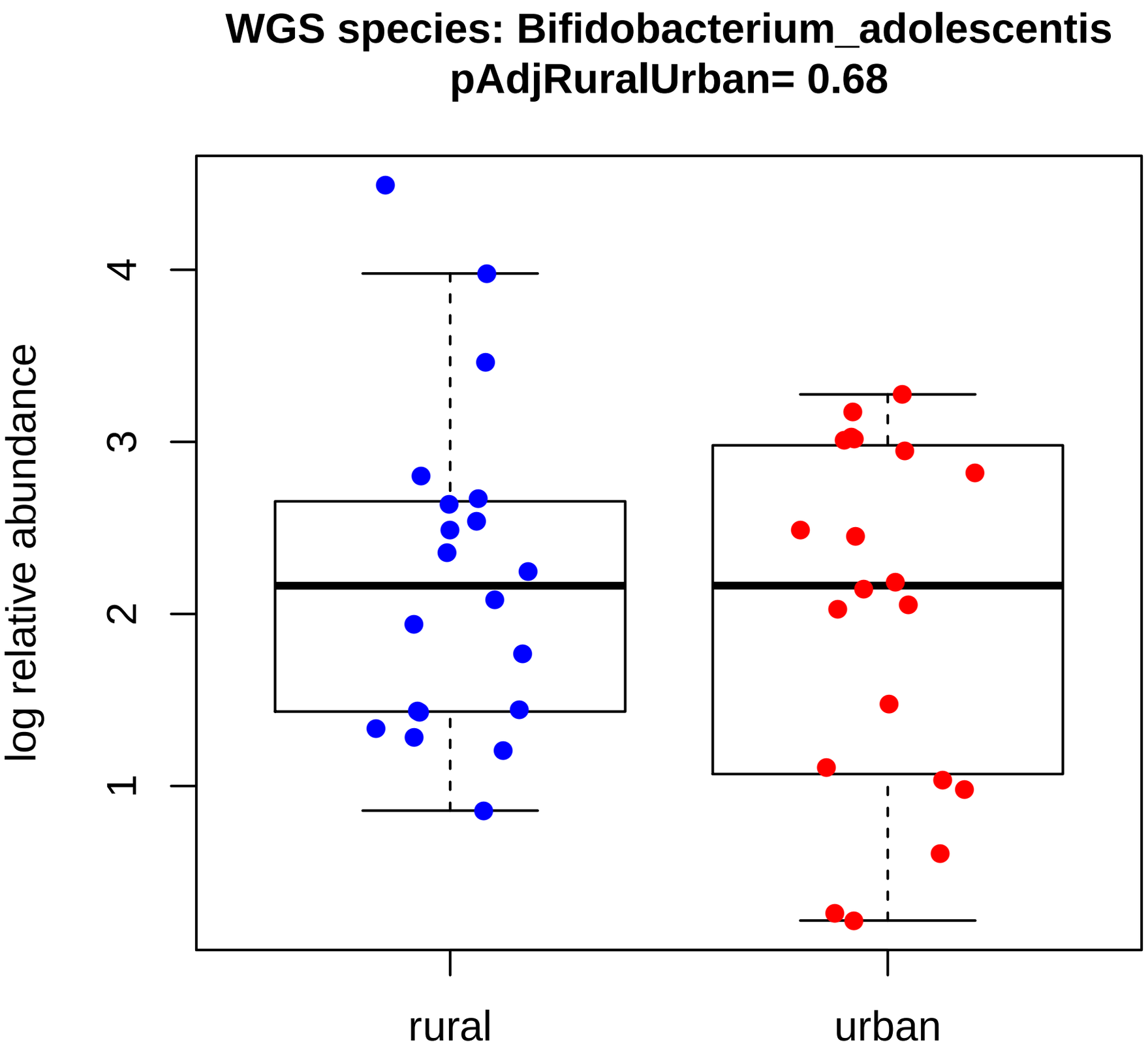

WGS species: Liberibacter_crescens
pAdjRuralUrban= 0.666
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

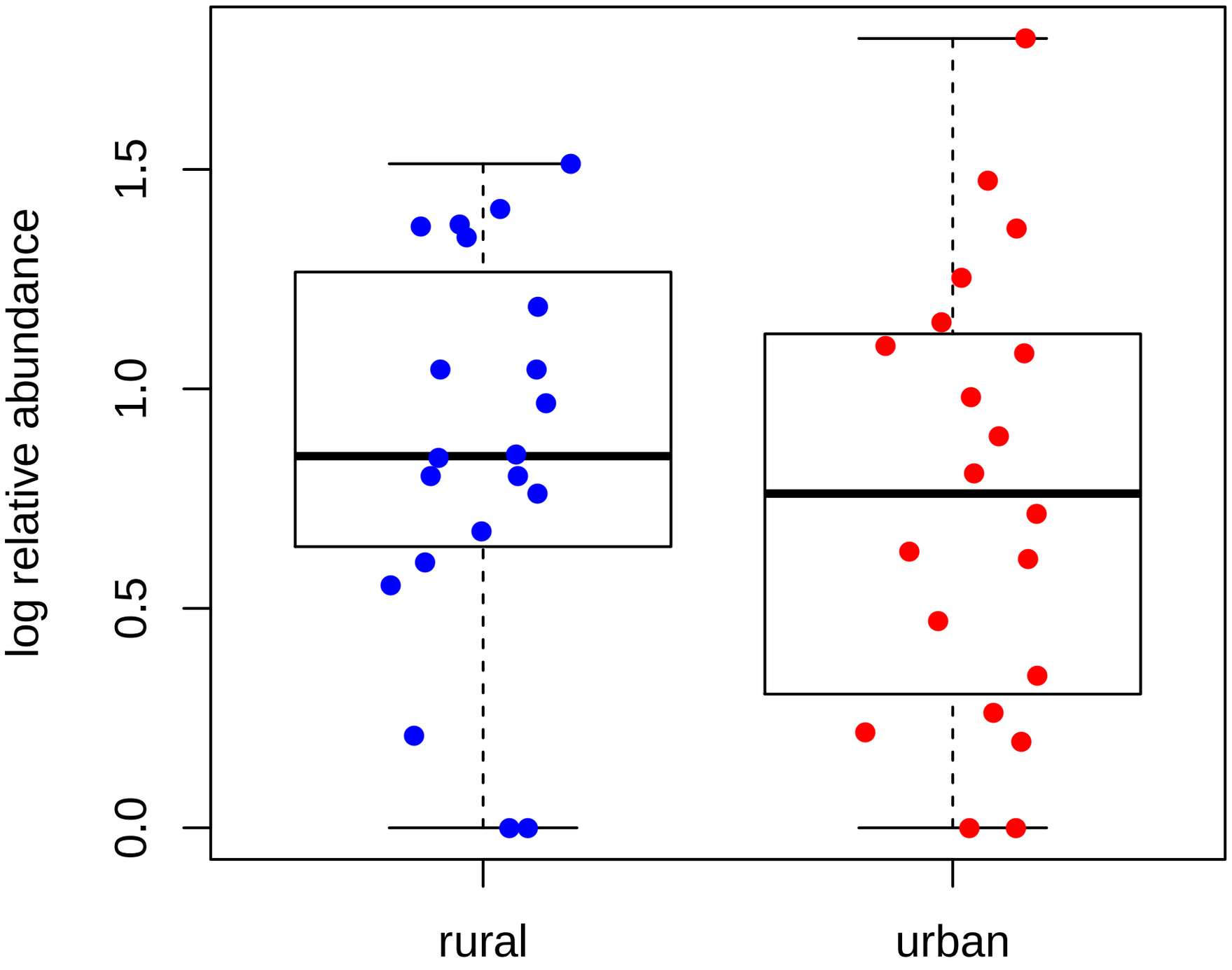

WGS species: Roseobacter_litoralis
pAdjRuralUrban= 0.666
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

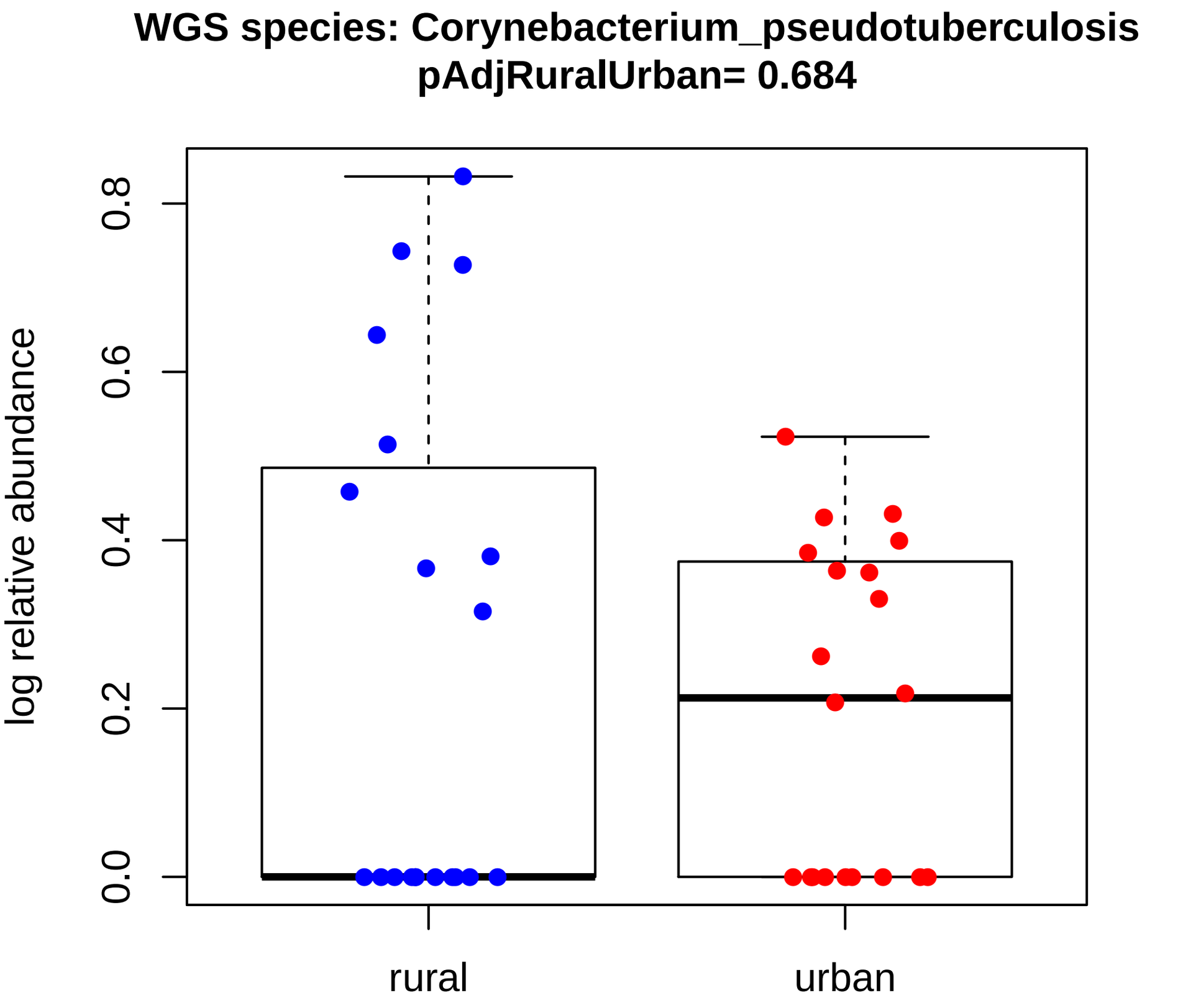

WGS species: Chlamydia_trachomatis
pAdjRuralUrban= 0.675
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

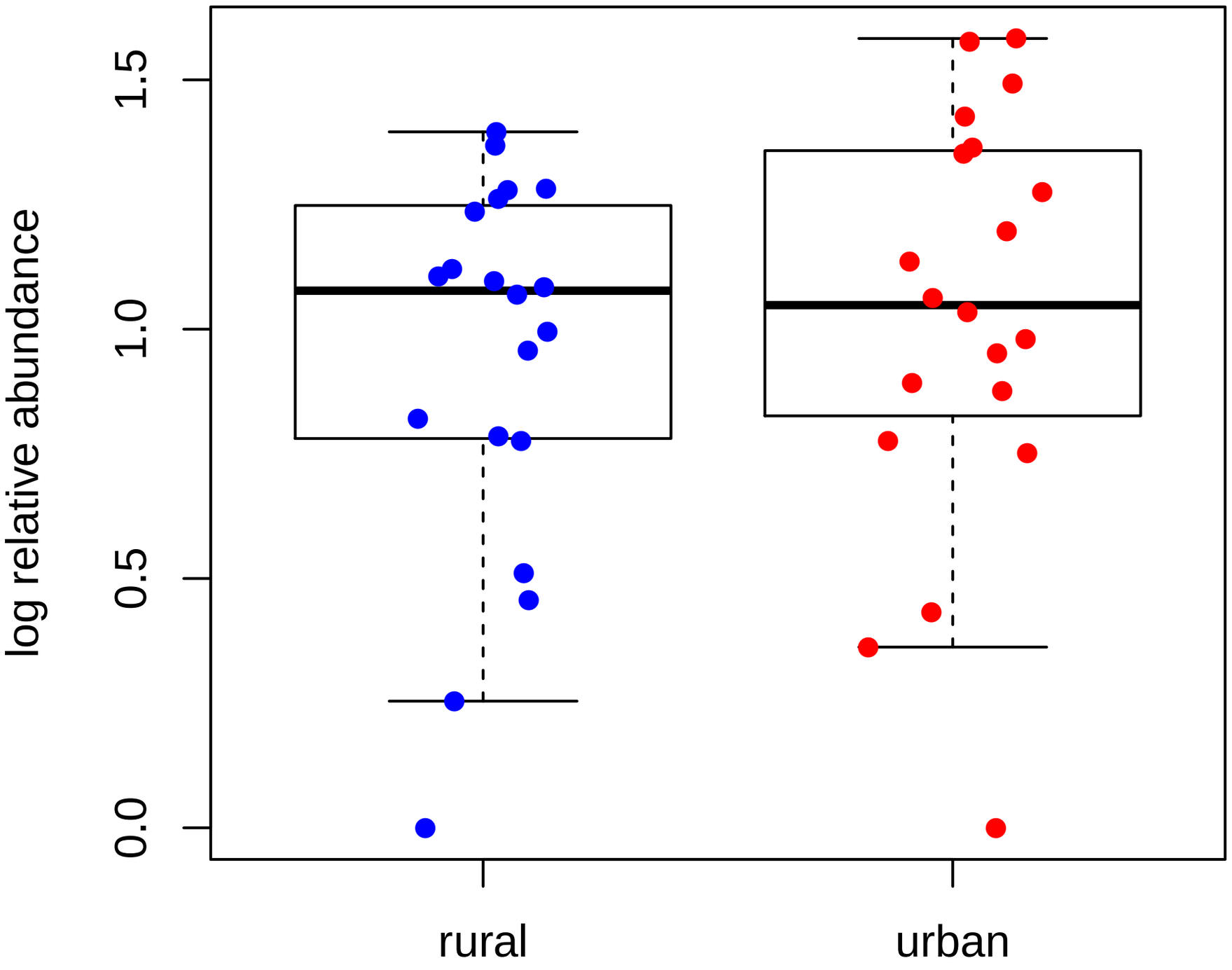

WGS species: Geitlerinema_sp._PCC_7407
pAdjRuralUrban= 0.678
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

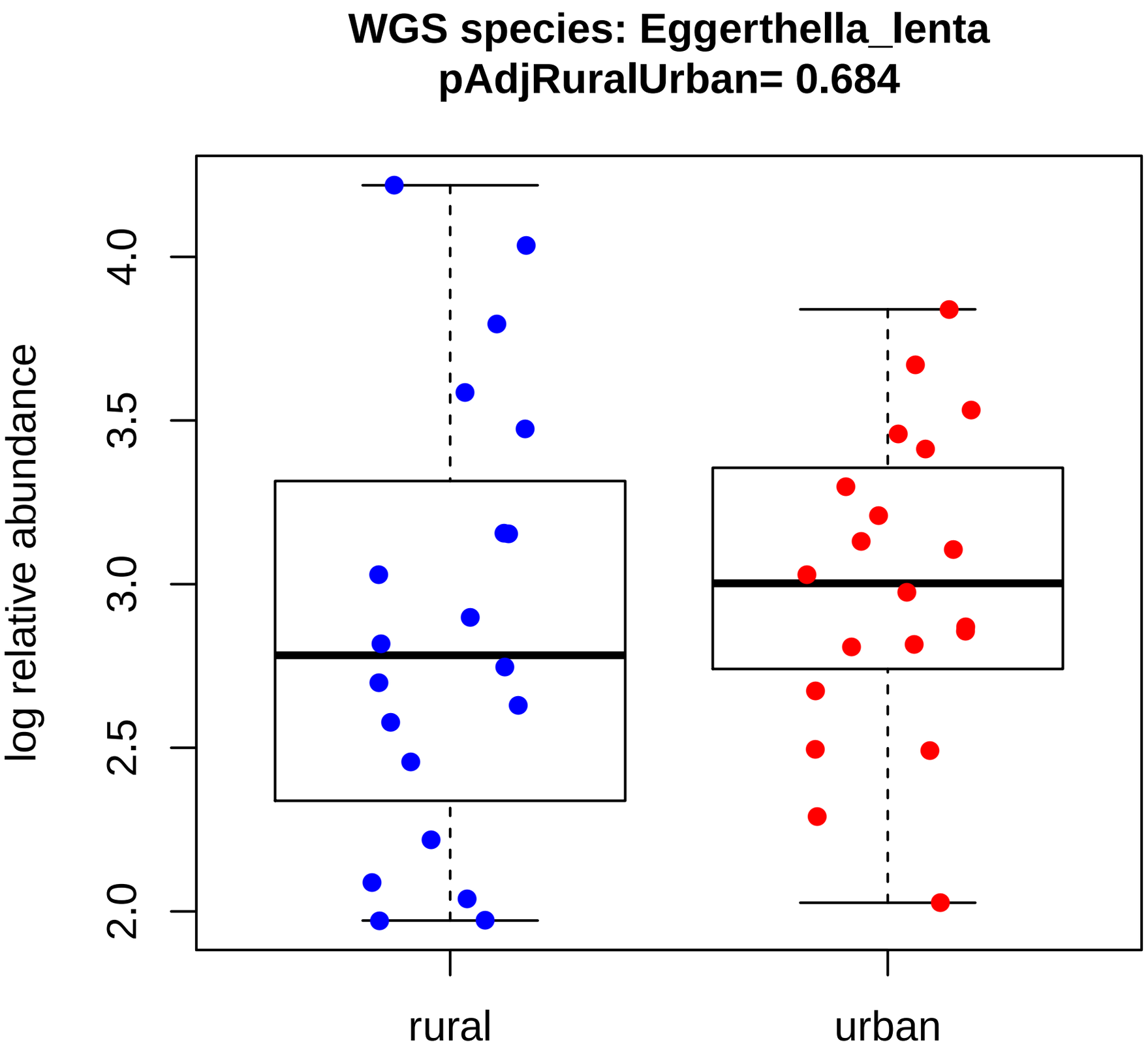

WGS species: Nitrosococcus_oceani
pAdjRuralUrban= 0.68
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

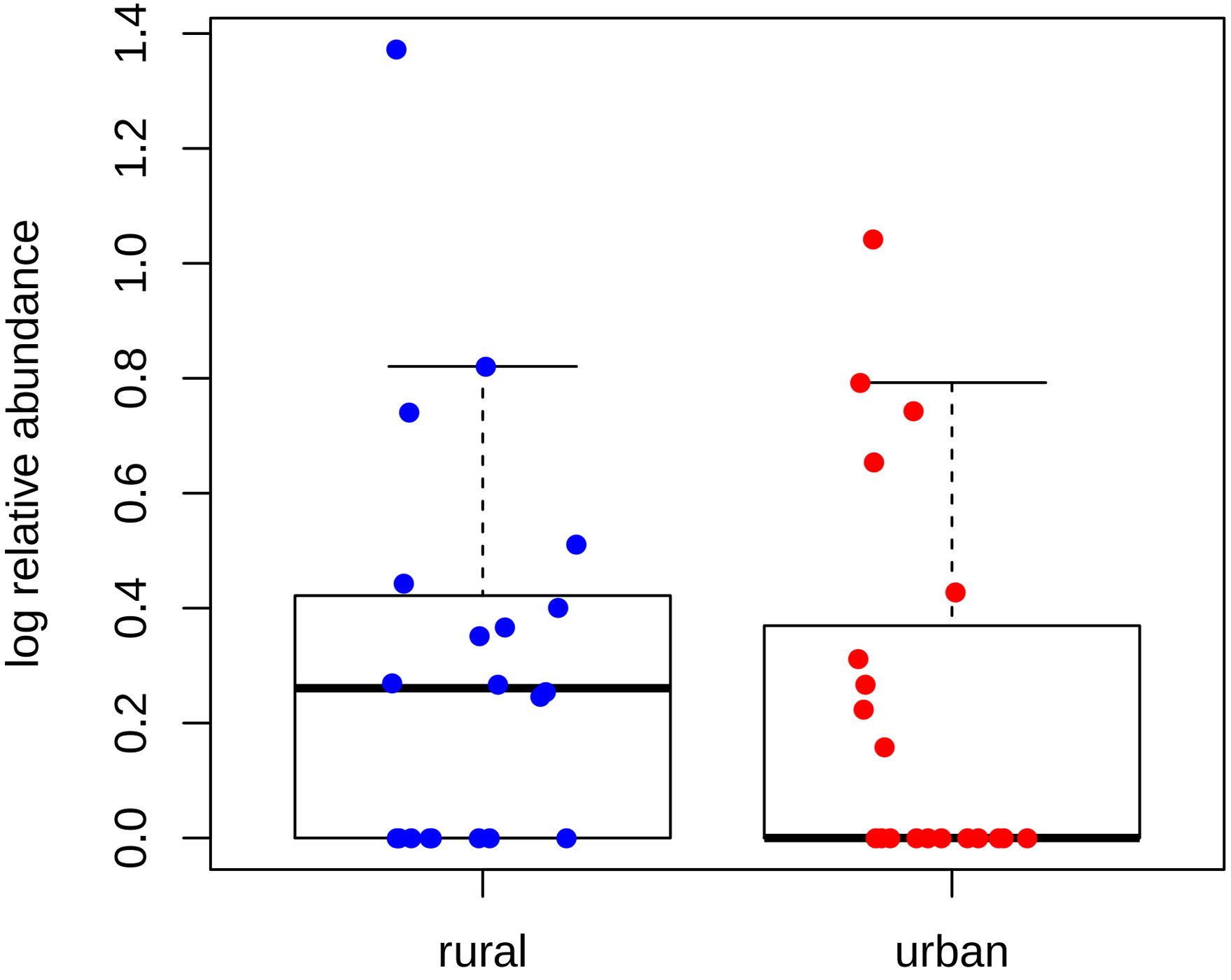

WGS species: Bifidobacterium_adolescentis
pAdjRuralUrban= 0.68
log relative abundance
1
2
3
4
rural
urban

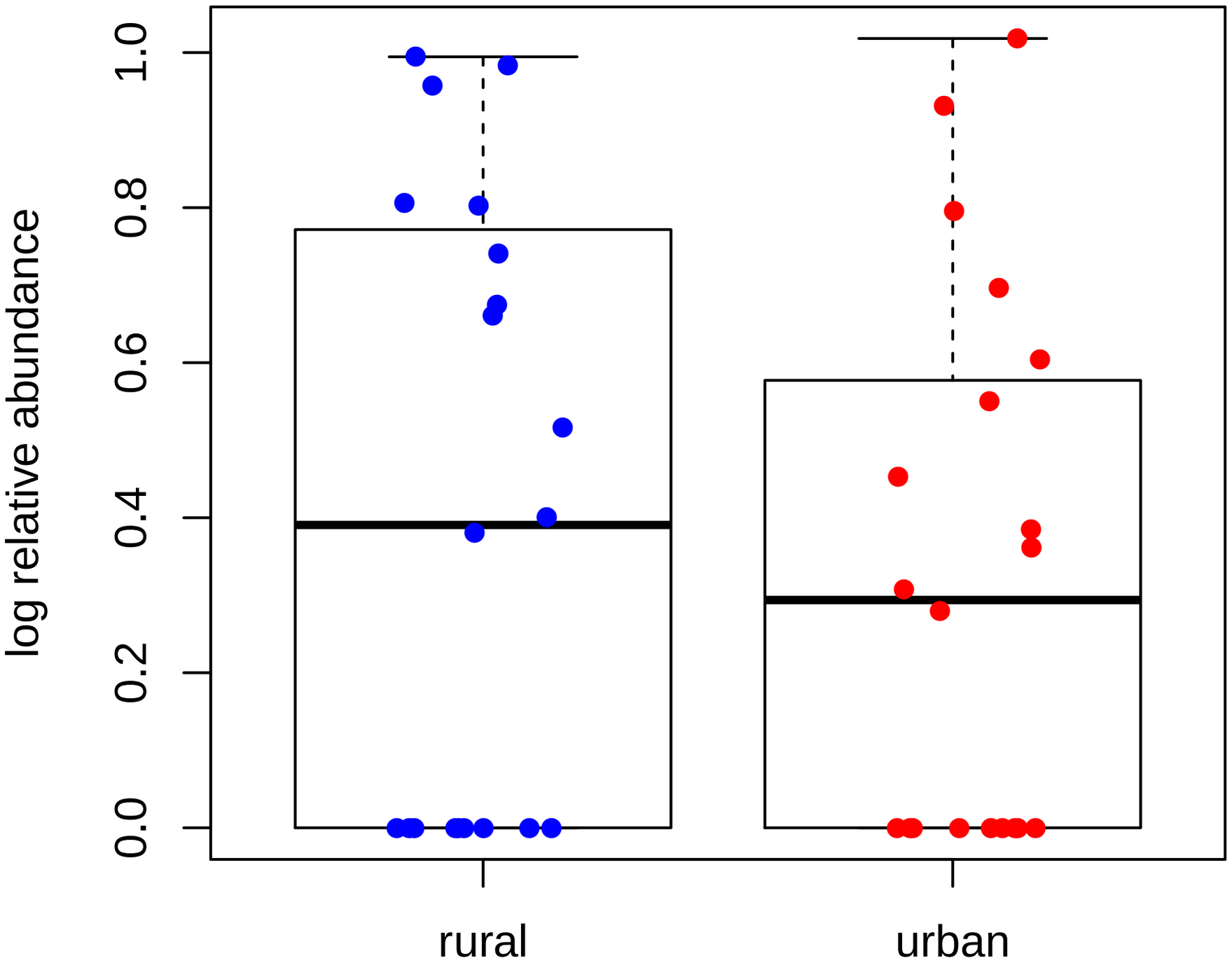

WGS species: Actinoplanes_sp._N902.109
pAdjRuralUrban= 0.684
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

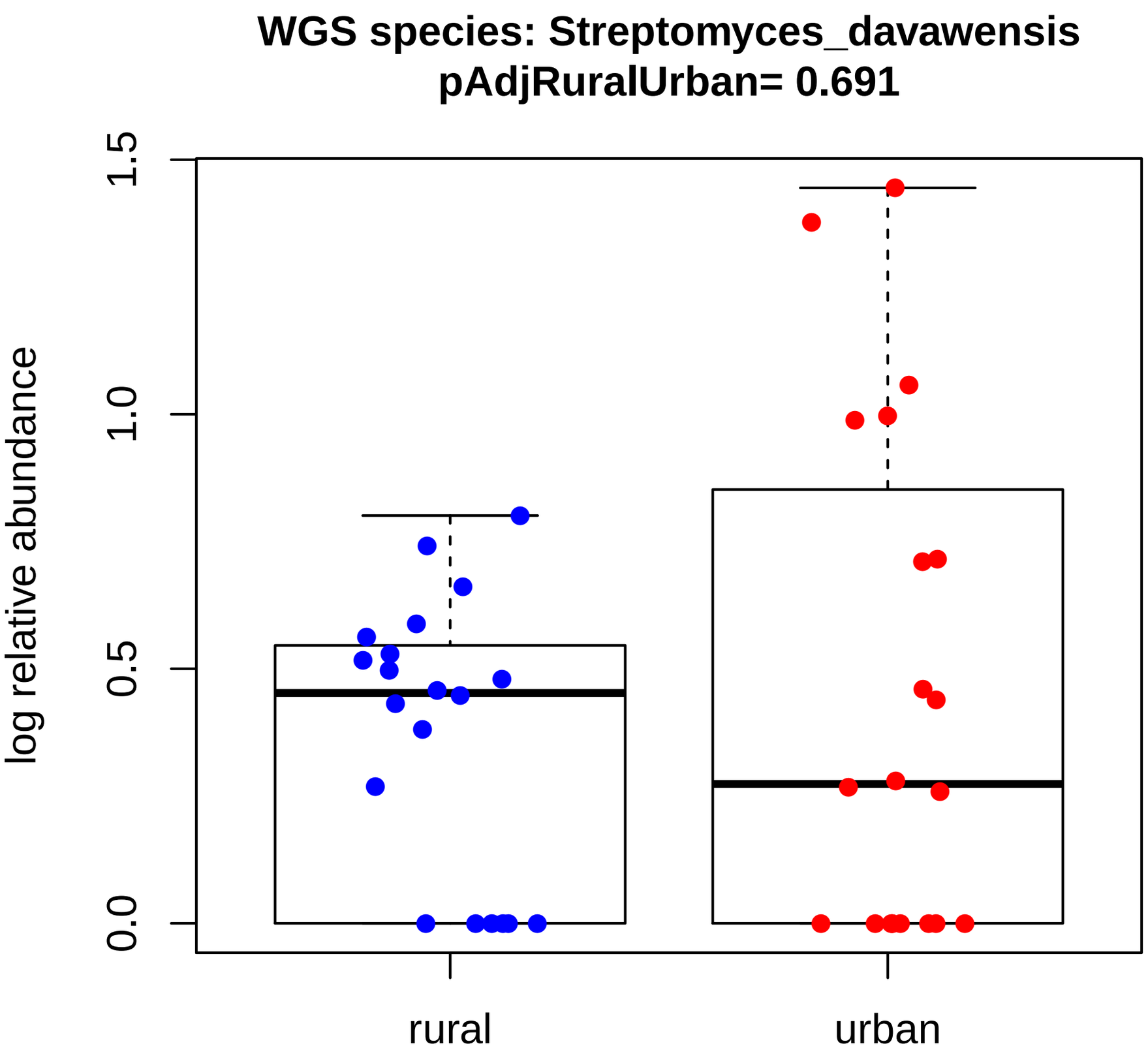

WGS species: Corynebacterium_pseudotuberculosis
pAdjRuralUrban= 0.684
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

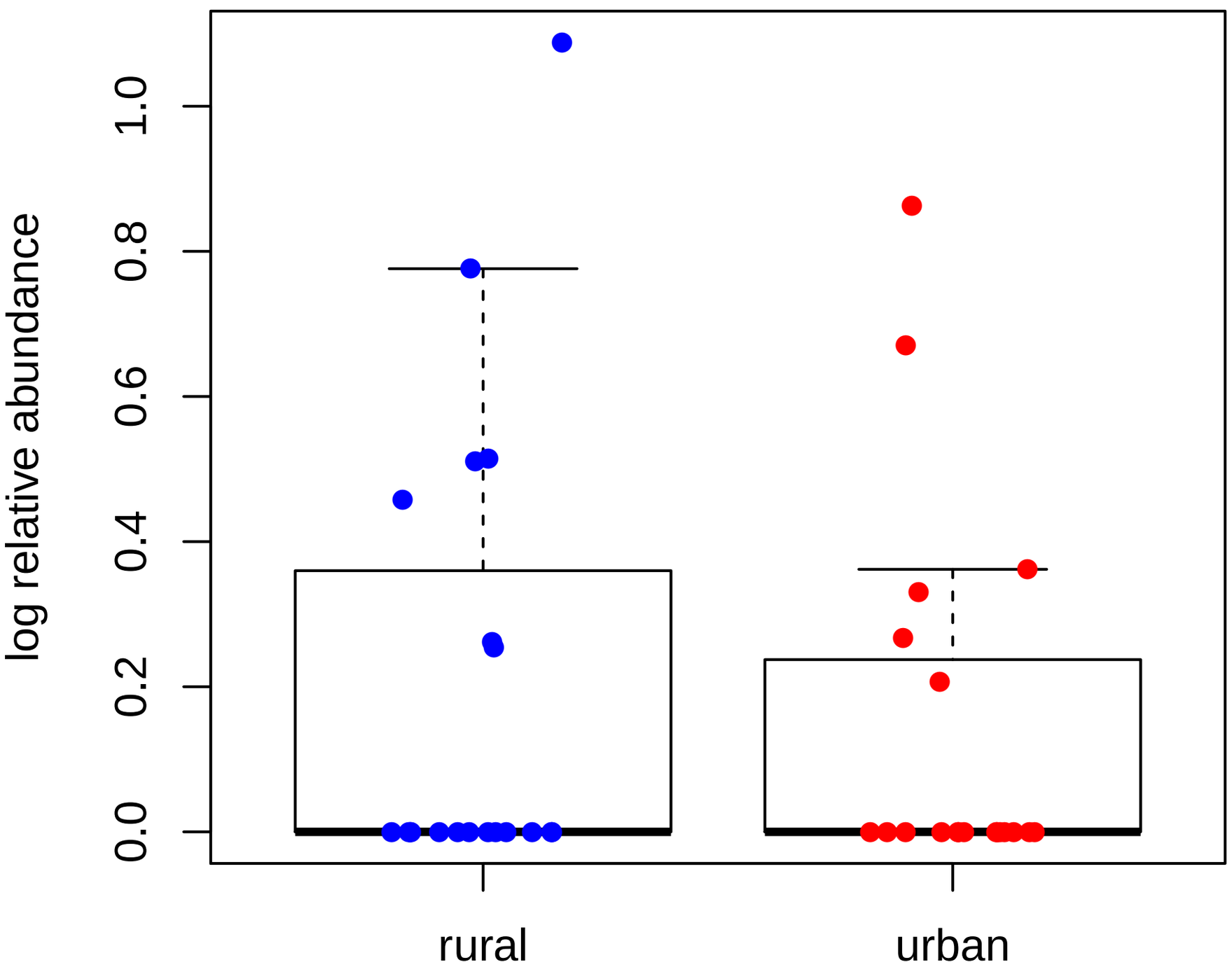

WGS species: Desulfurivibrio_alkaliphilus
pAdjRuralUrban= 0.684
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

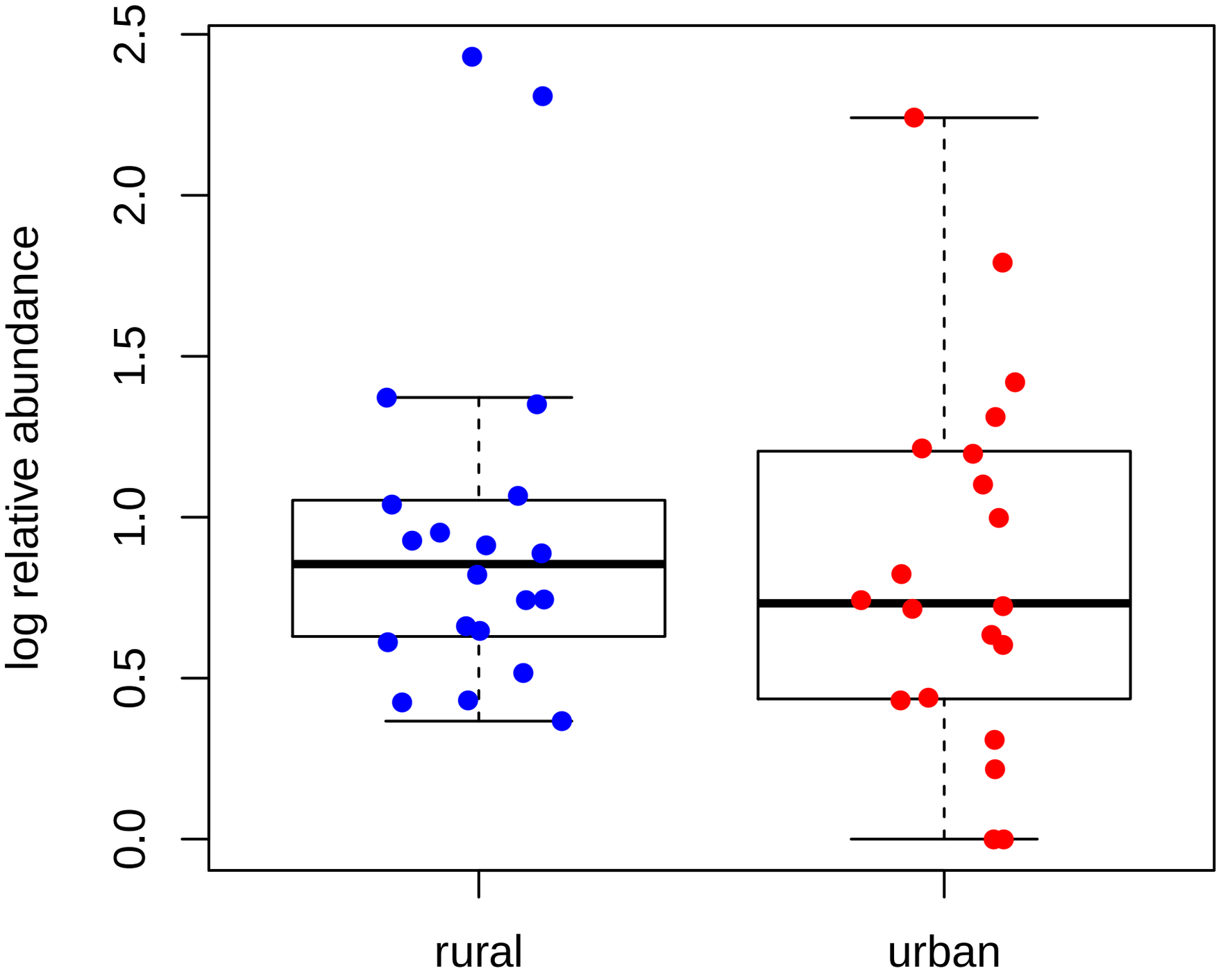

WGS species: Eggerthella_lenta
pAdjRuralUrban= 0.684
log relative abundance
2.0
2.5
3.0
3.5
4.0
rural
urban

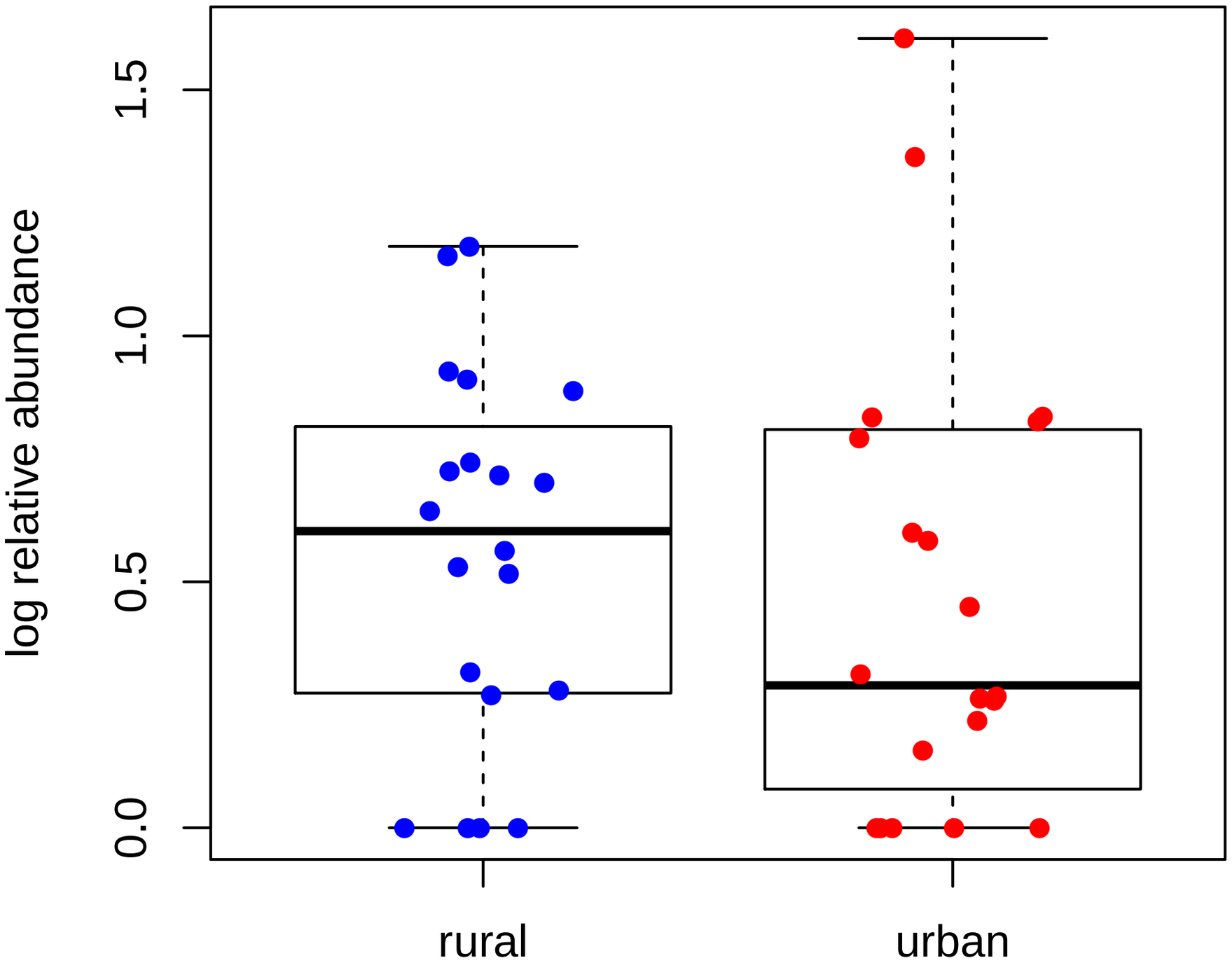

WGS species: Oceanobacillus_iheyensis
pAdjRuralUrban= 0.684
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

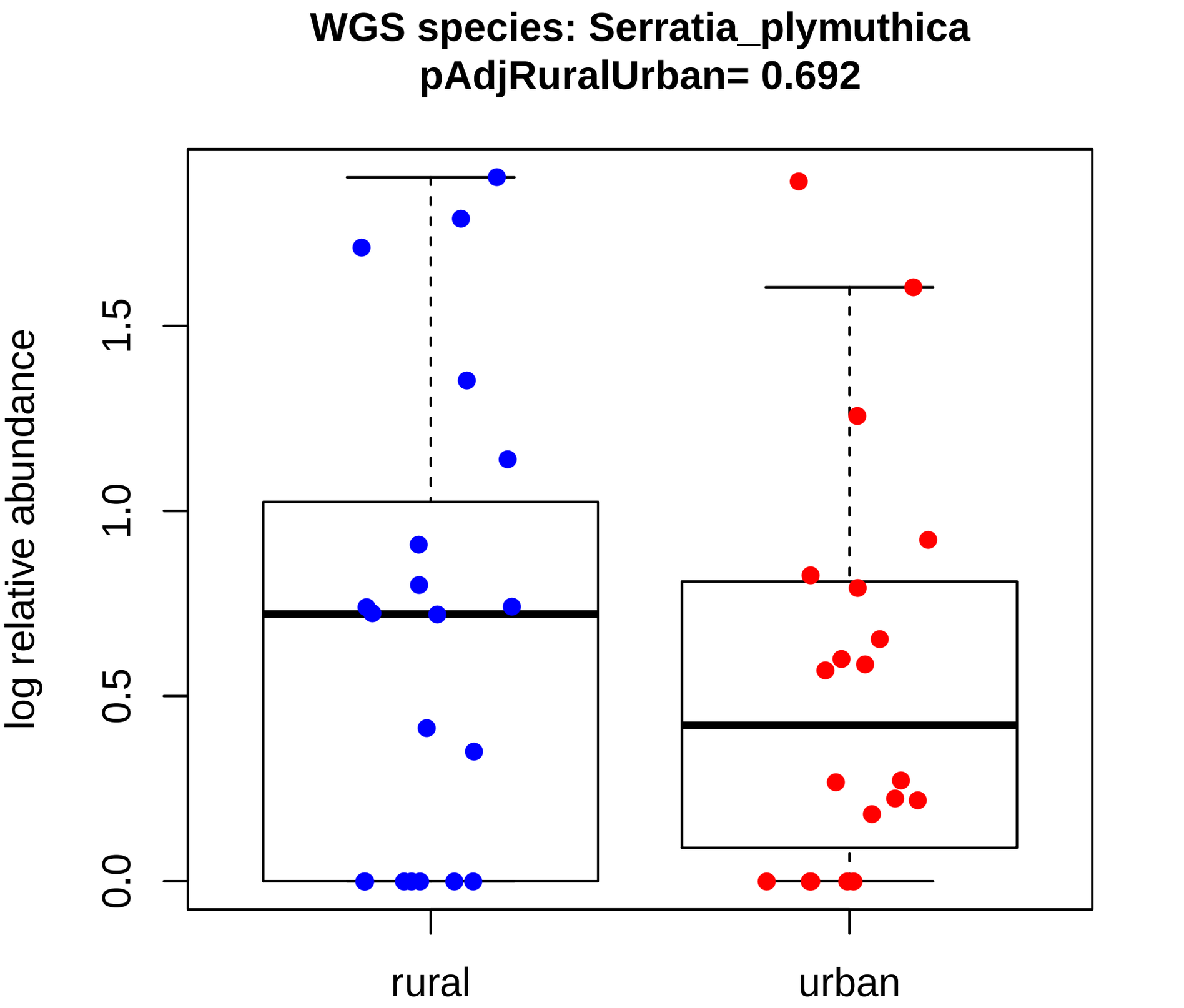

WGS species: Mycobacterium_rhodesiae
pAdjRuralUrban= 0.691
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

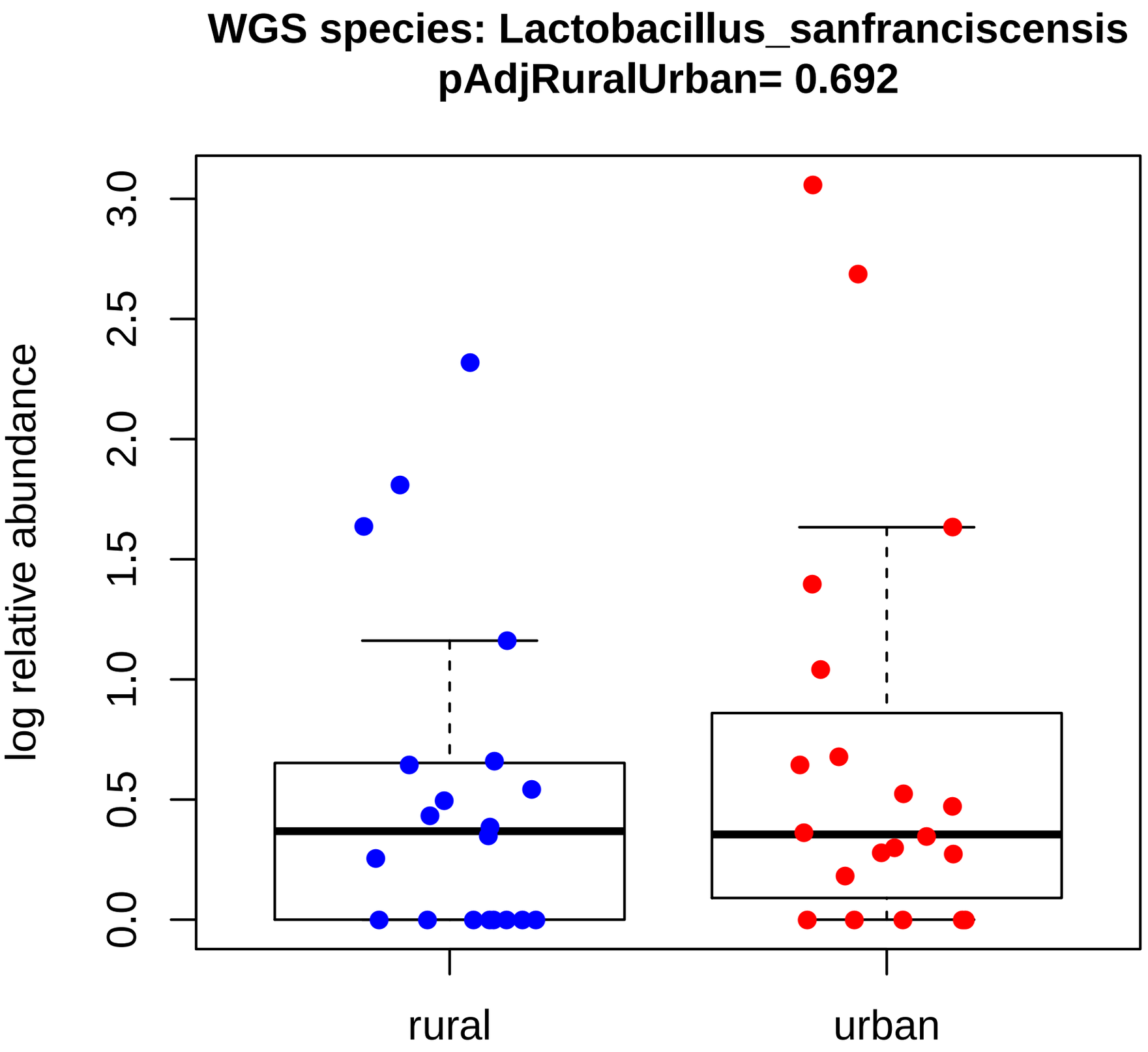

WGS species: Streptomyces_davawensis
pAdjRuralUrban= 0.691
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

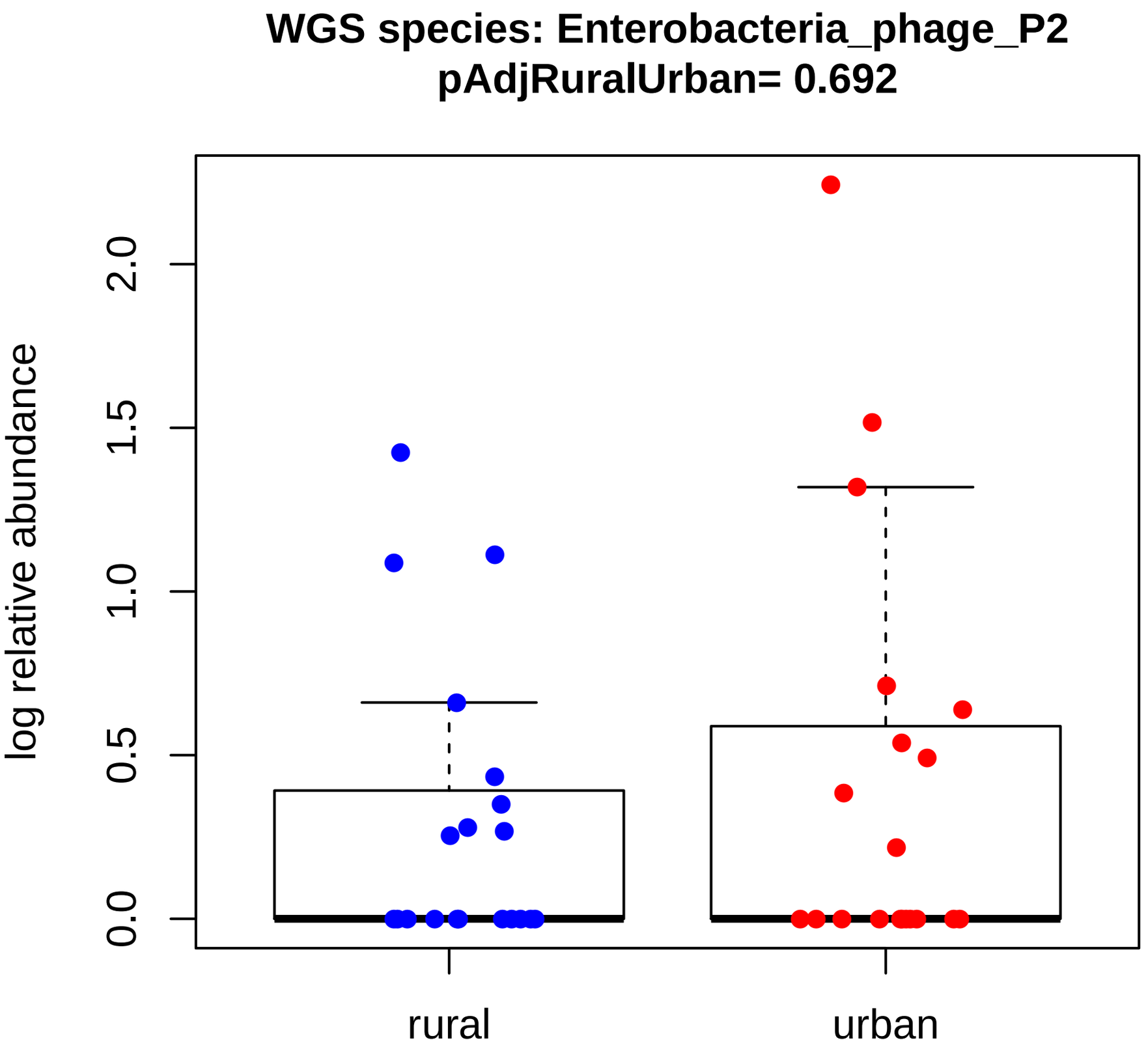

WGS species: Jannaschia_sp._CCS1
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

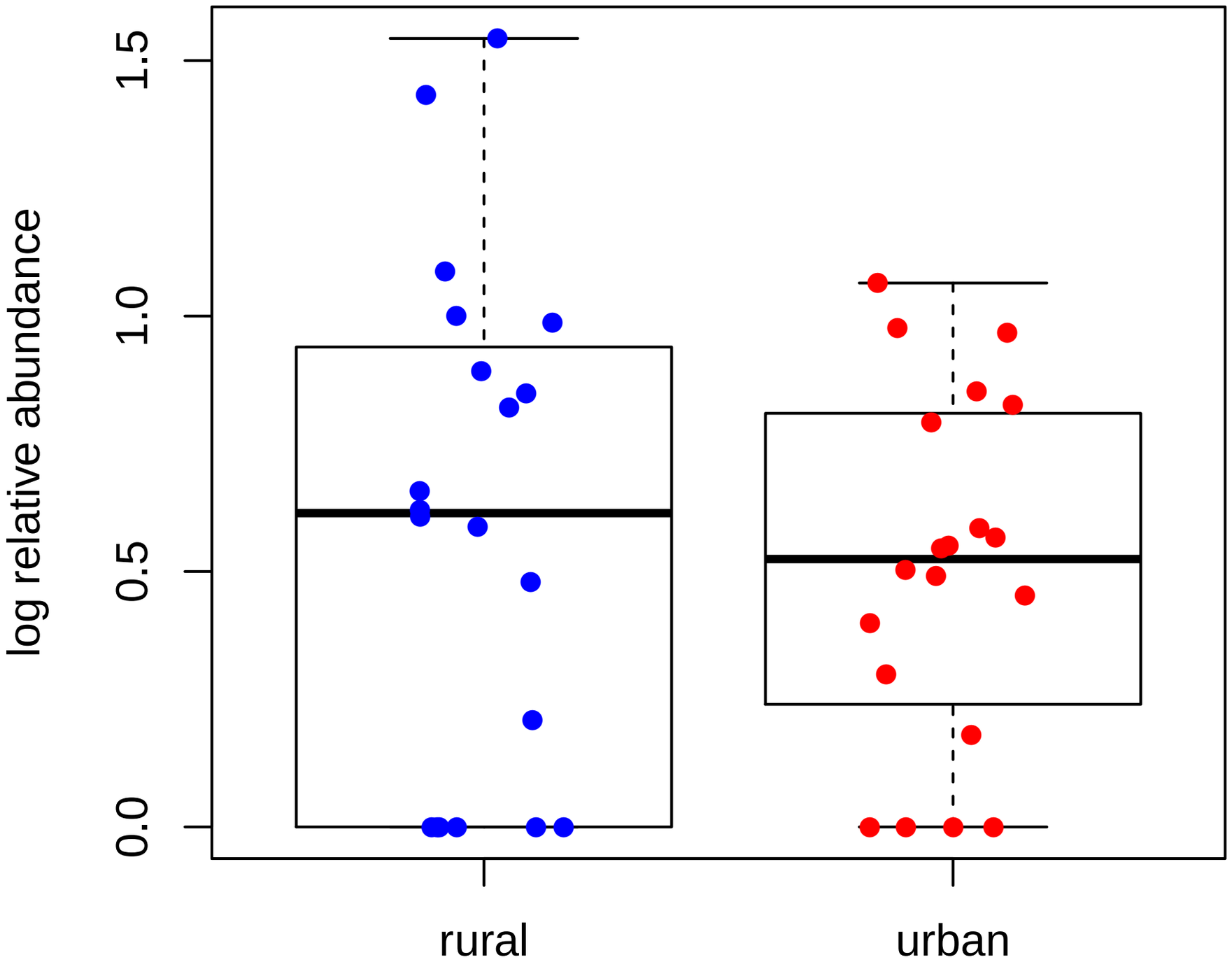

WGS species: Cronobacter_turicensis
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

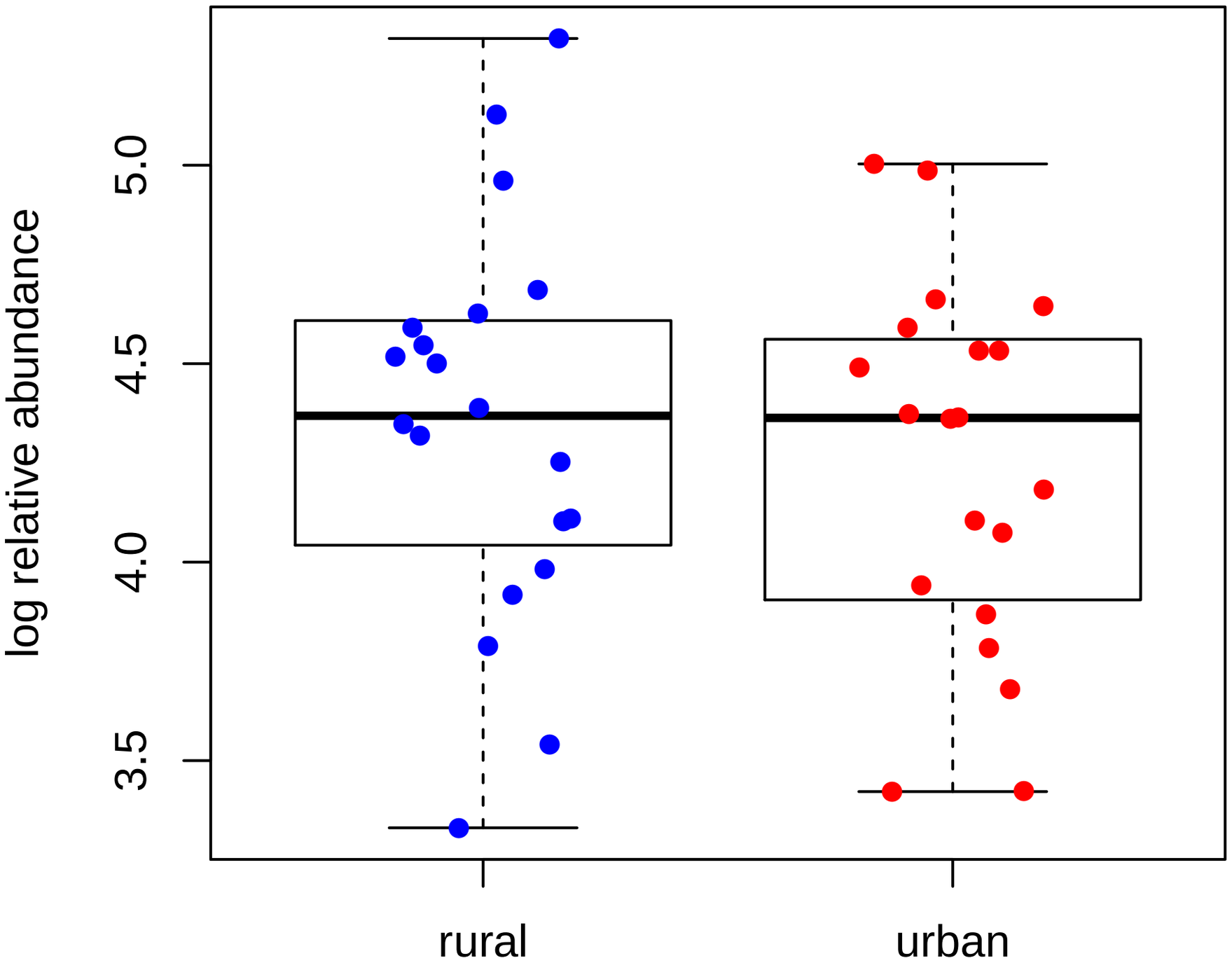

WGS species: Cellulomonas_flavigena
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

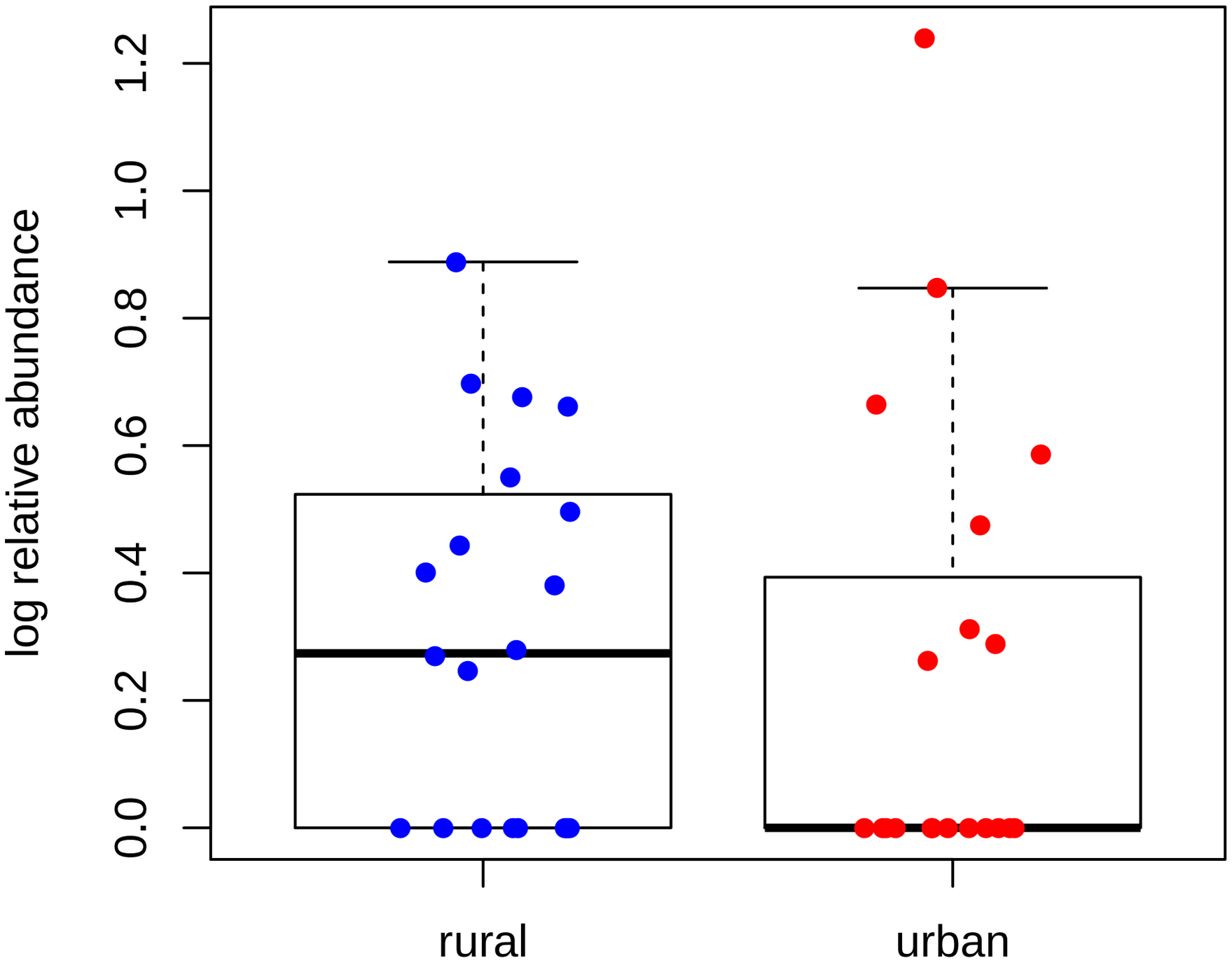

WGS species: Serratia_plymuthica
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

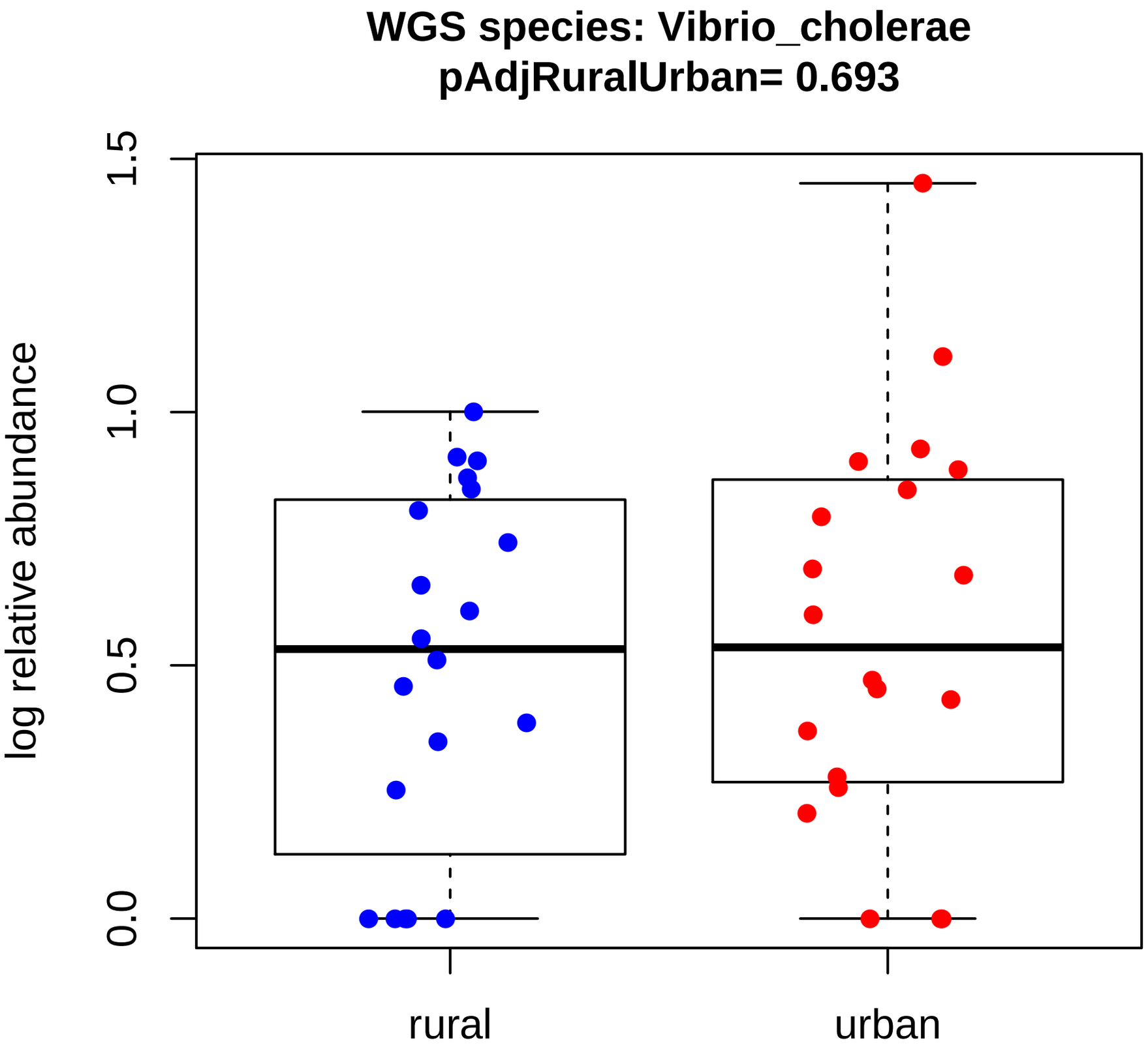

WGS species: Lactobacillus_sanfranciscensis
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

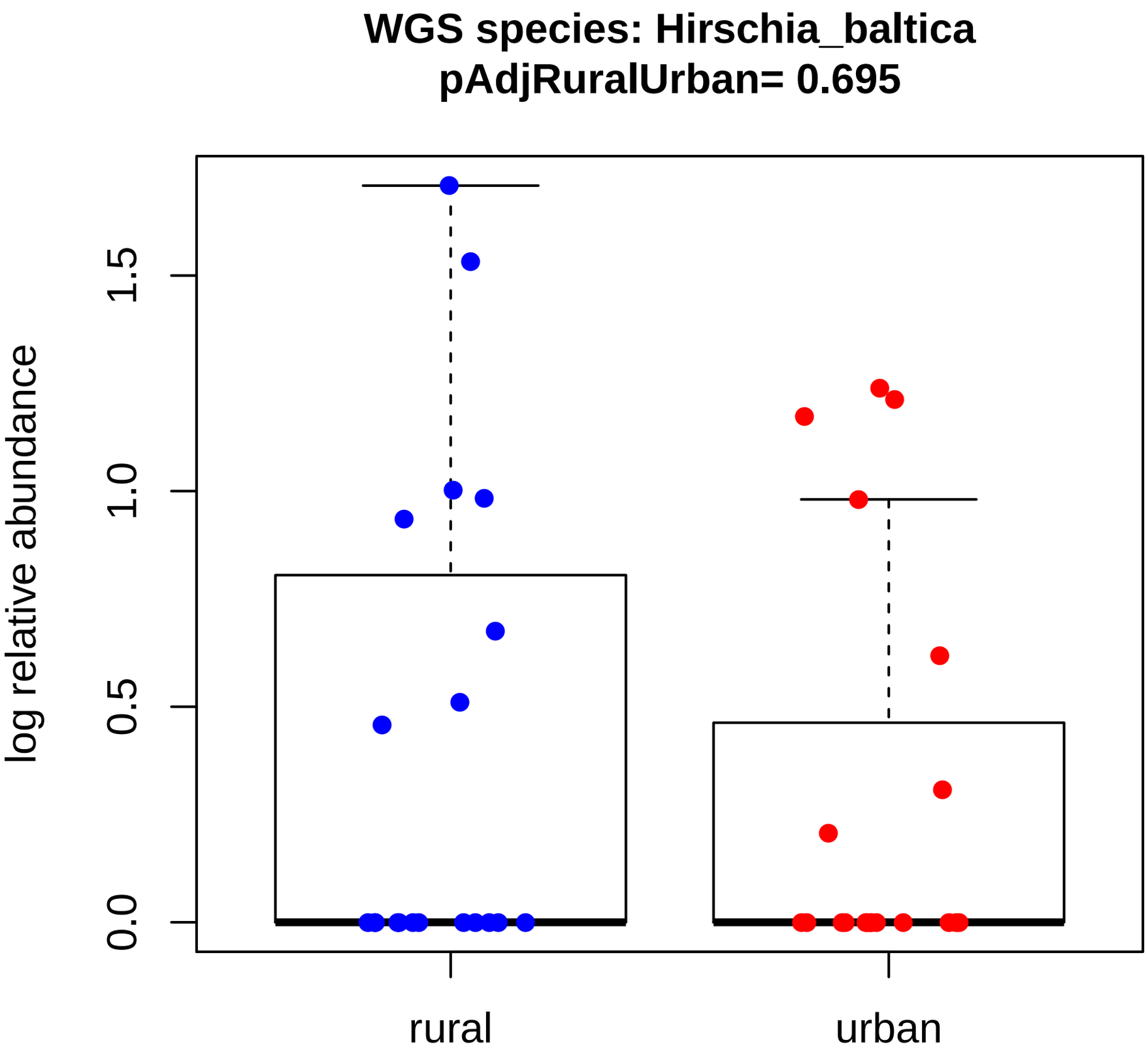

WGS species: Enterobacteria_phage_P2
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

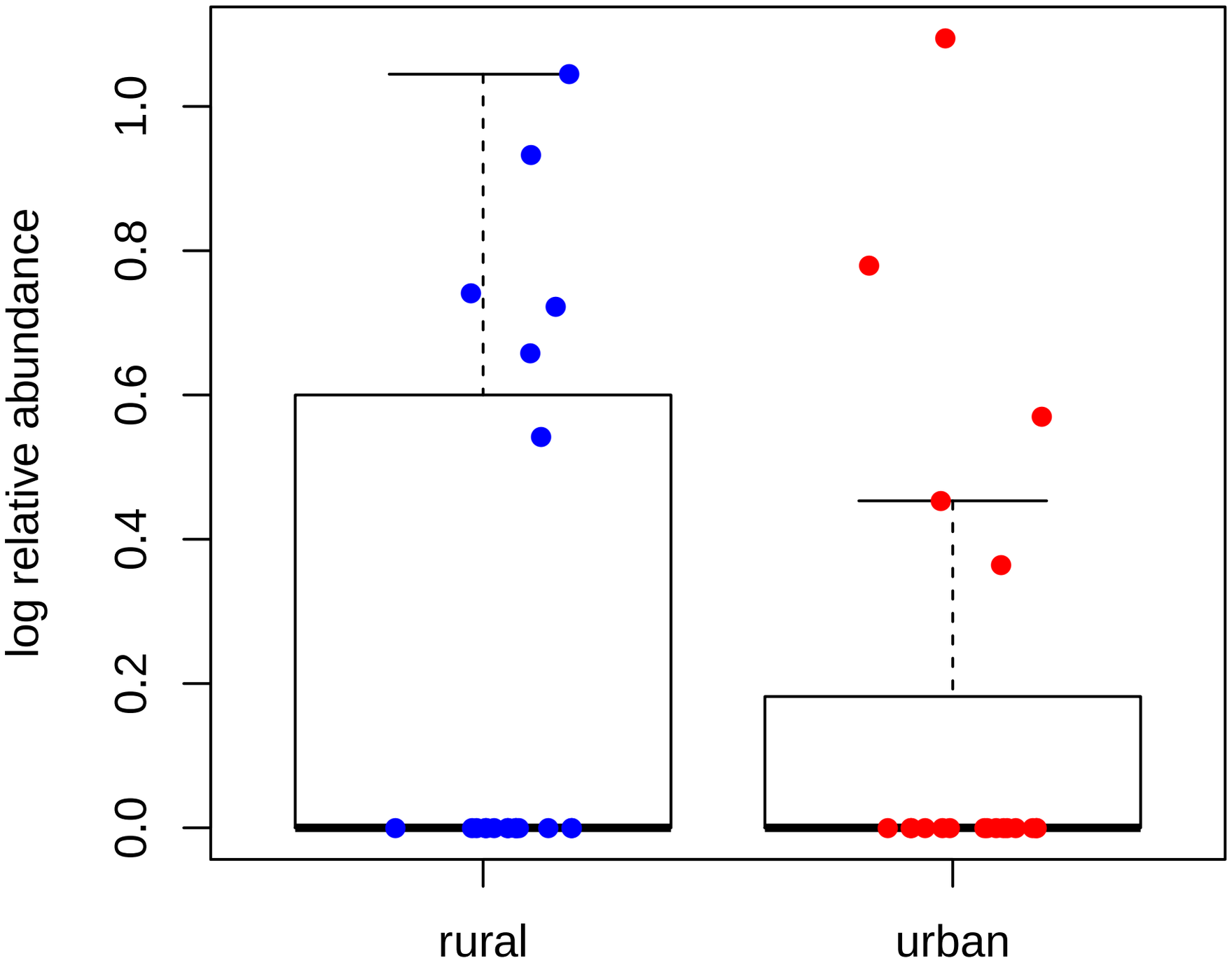

WGS species: Exiguobacterium_sp._AT1b
pAdjRuralUrban= 0.692
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

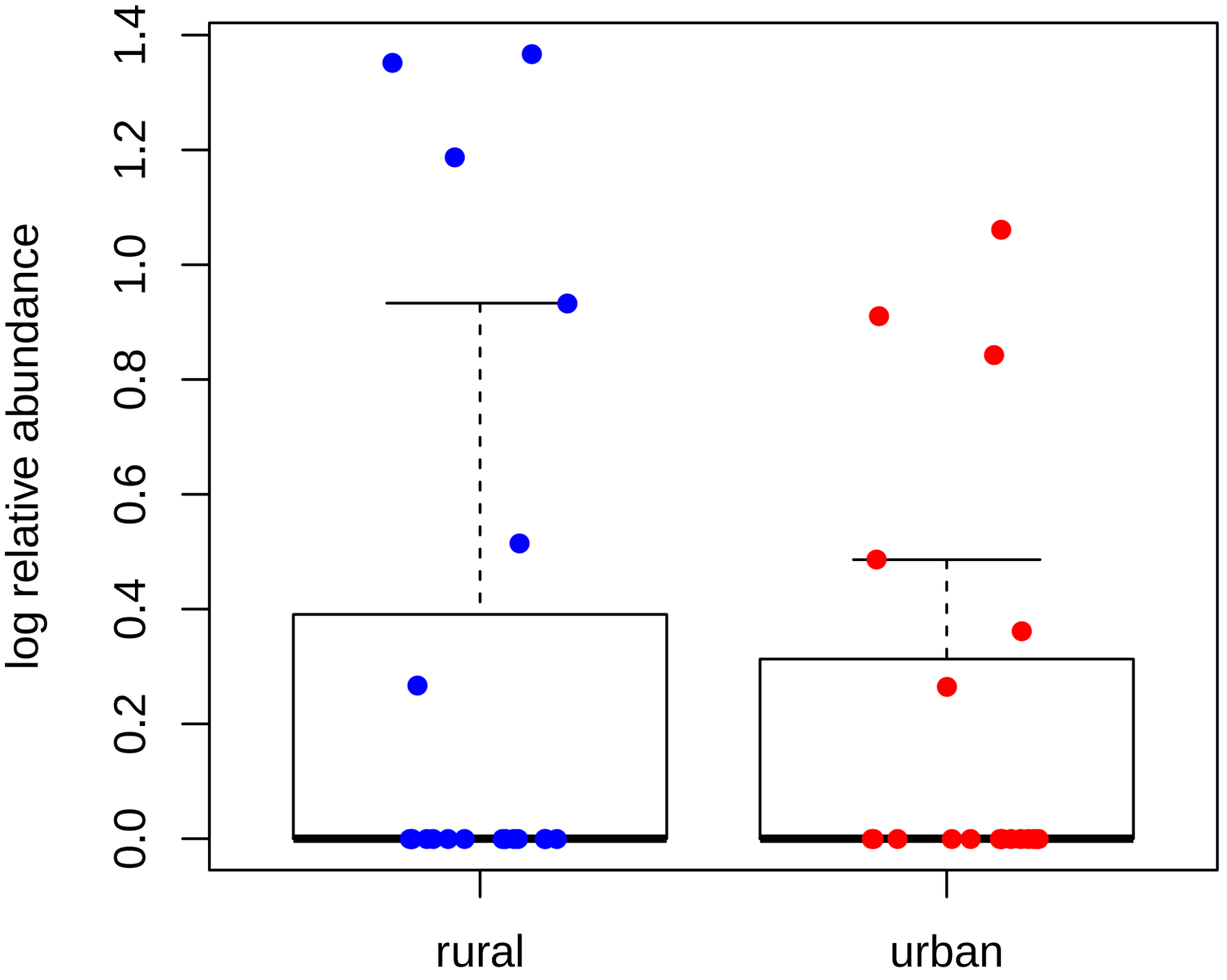

WGS species: Odoribacter_splanchnicus
pAdjRuralUrban= 0.692
log relative abundance
3.5
4.0
4.5
5.0
rural
urban

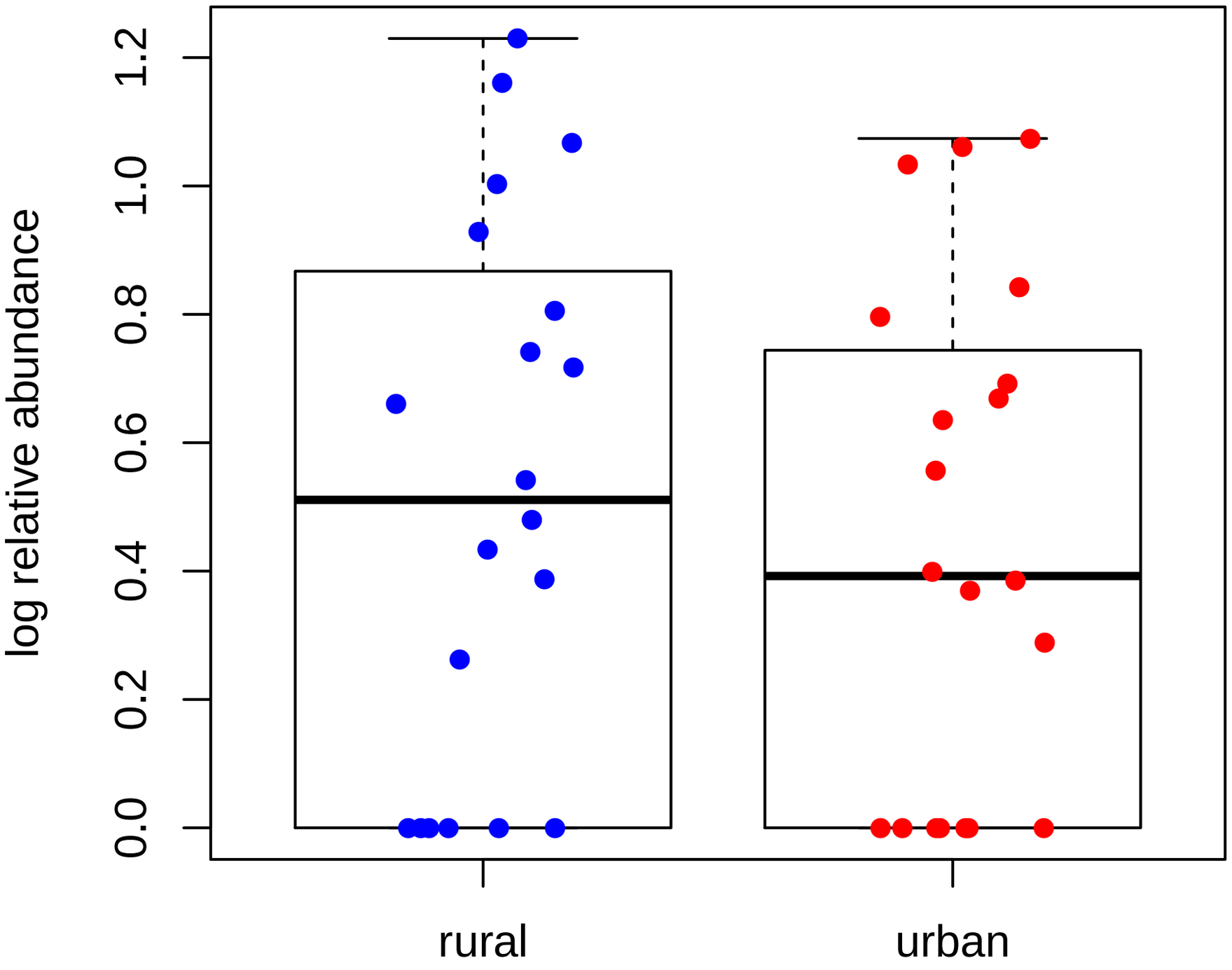

WGS species: Haloferax_mediterranei
pAdjRuralUrban= 0.693
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

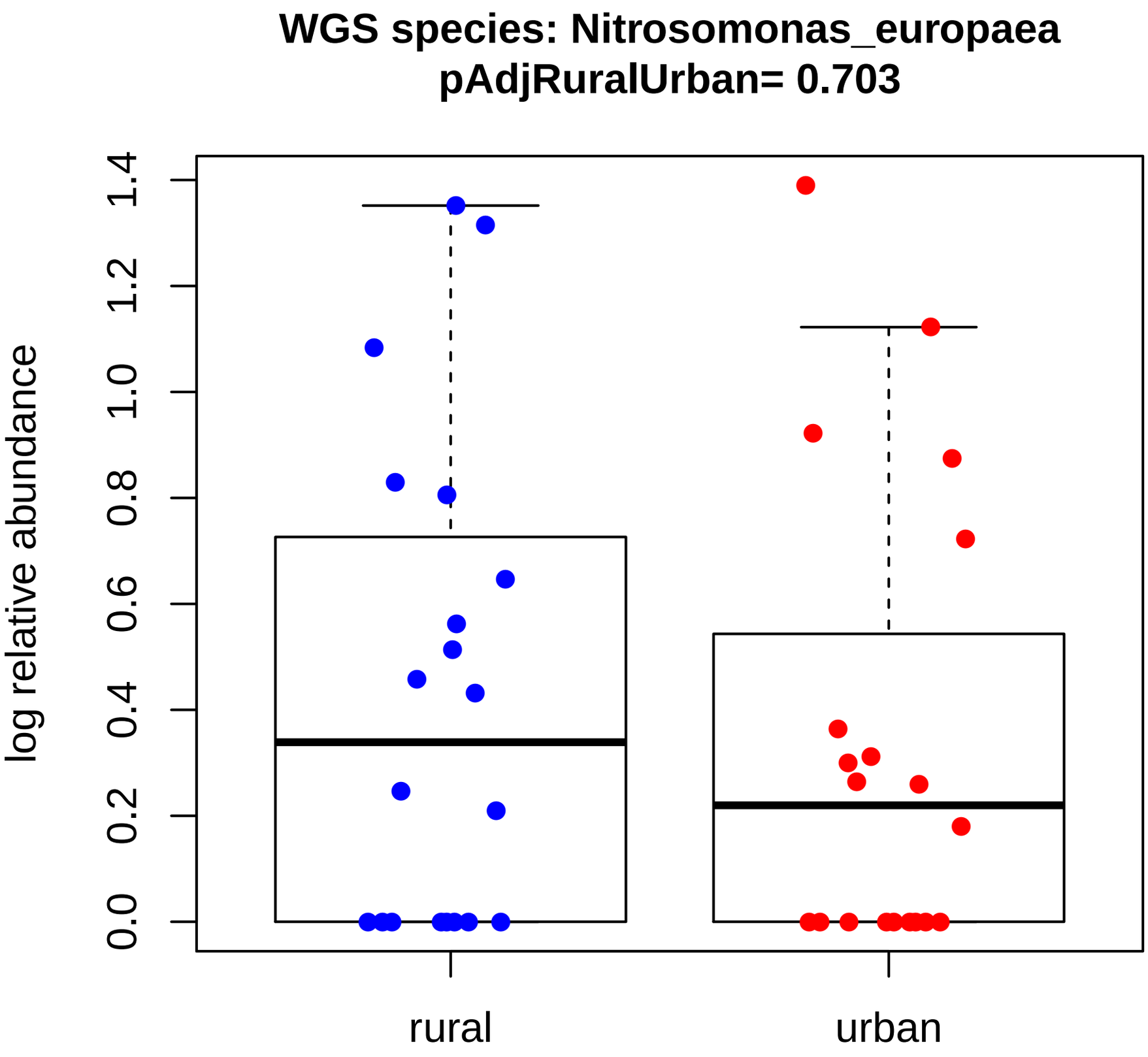

WGS species: Vibrio_cholerae
pAdjRuralUrban= 0.693
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

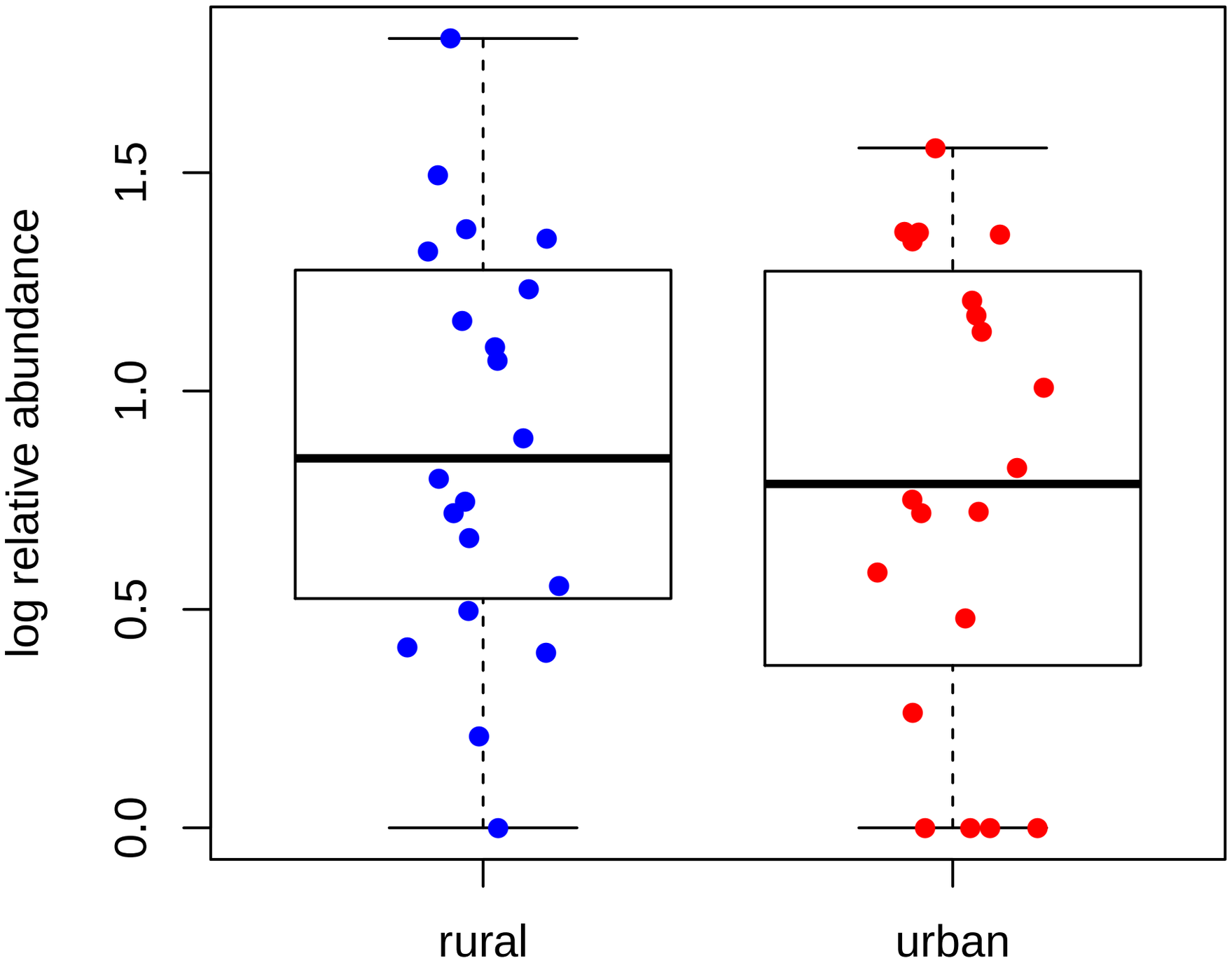

WGS species: Hirschia_baltica
pAdjRuralUrban= 0.695
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

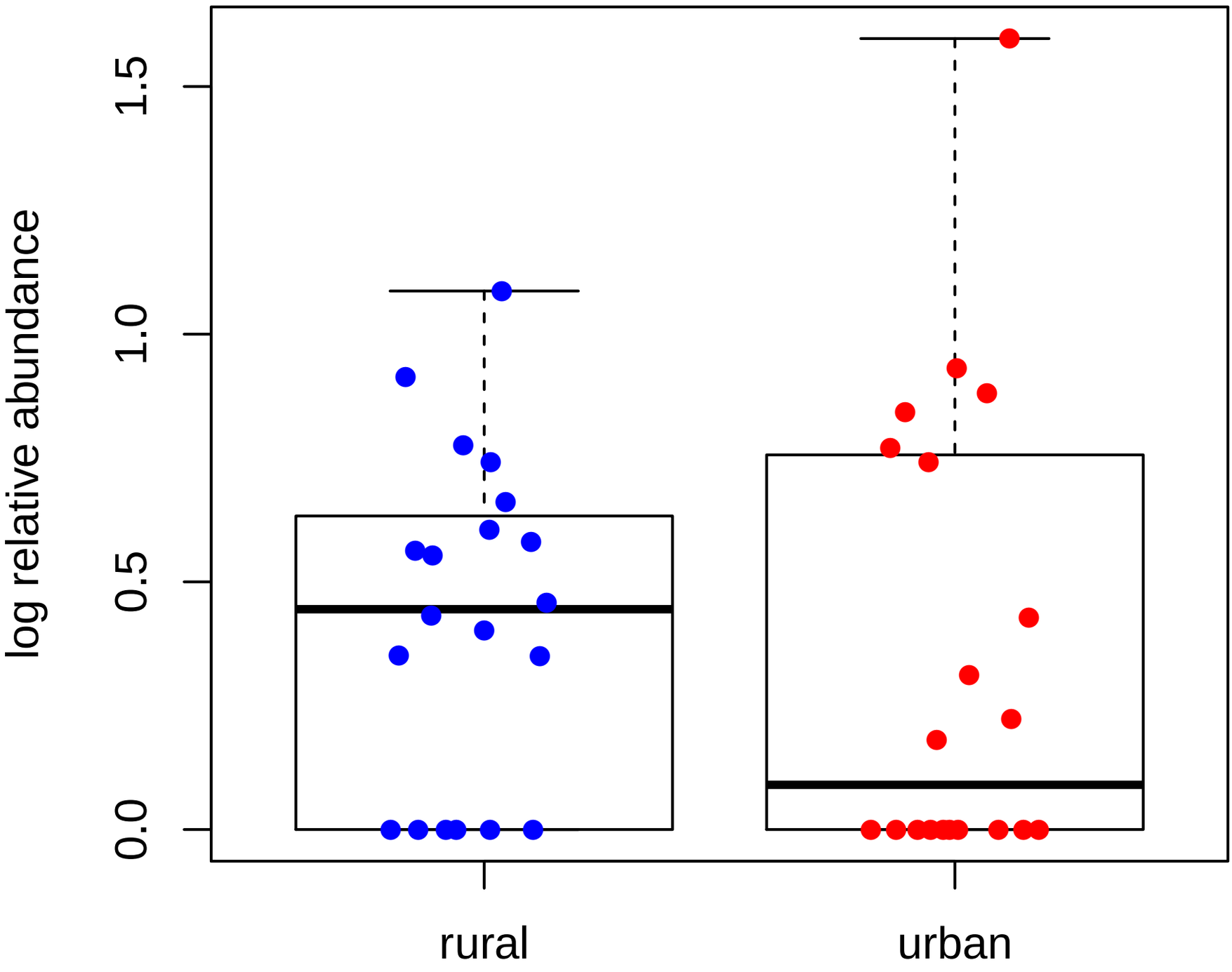

WGS species: Roseobacter_denitrificans
pAdjRuralUrban= 0.698
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

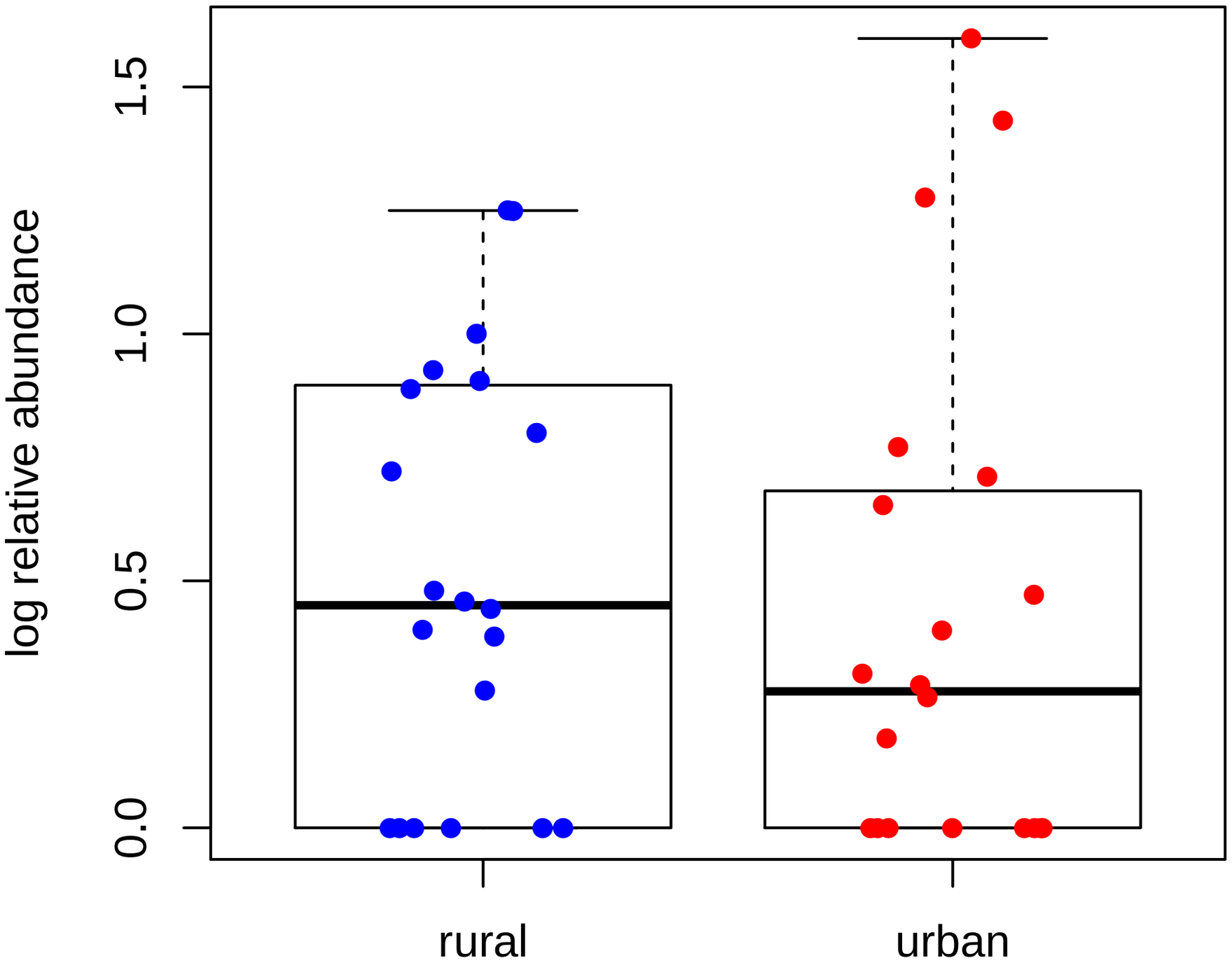

WGS species: Streptococcus_phage_YMC.2011
pAdjRuralUrban= 0.701
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

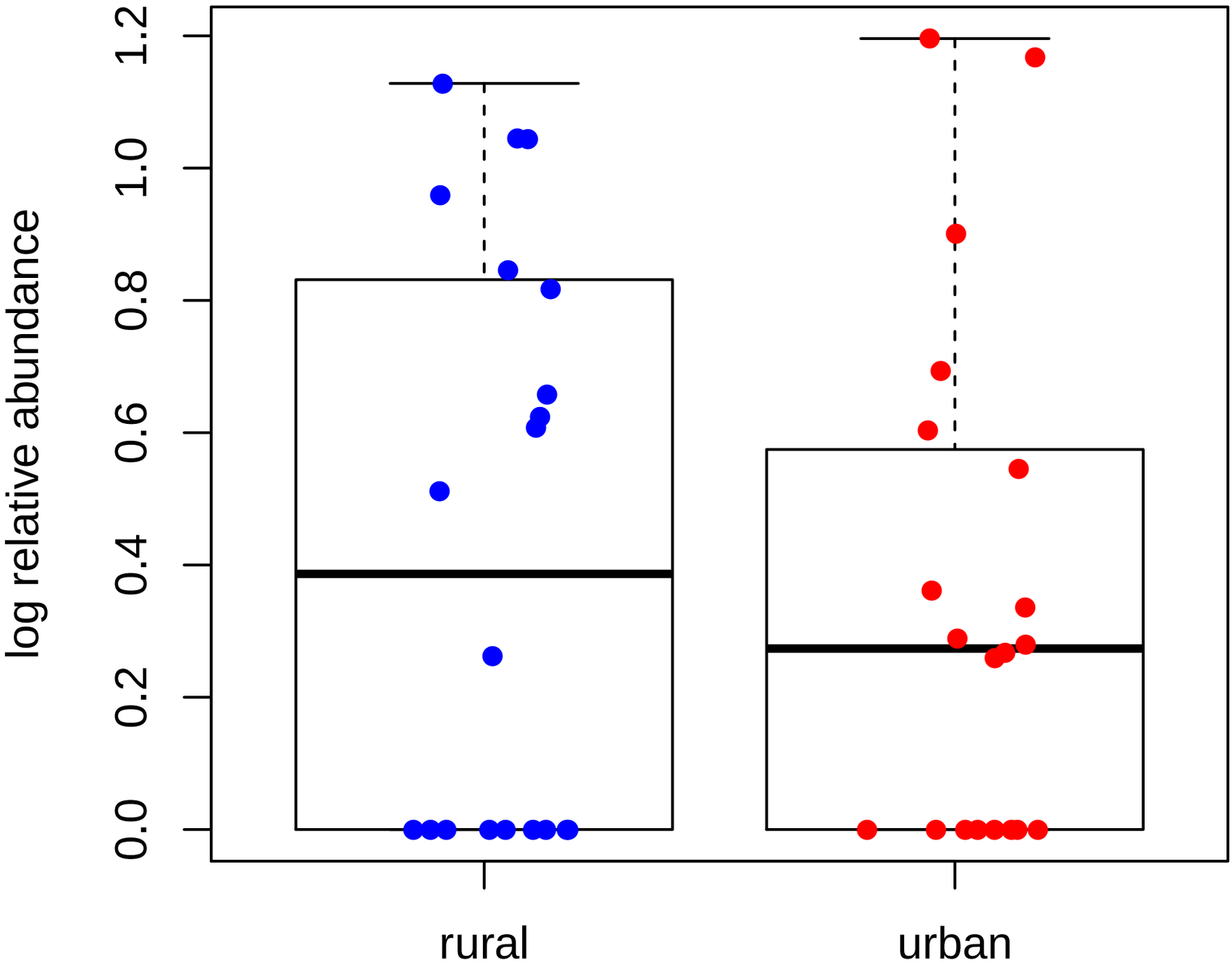

WGS species: Agrobacterium_fabrum
pAdjRuralUrban= 0.703
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

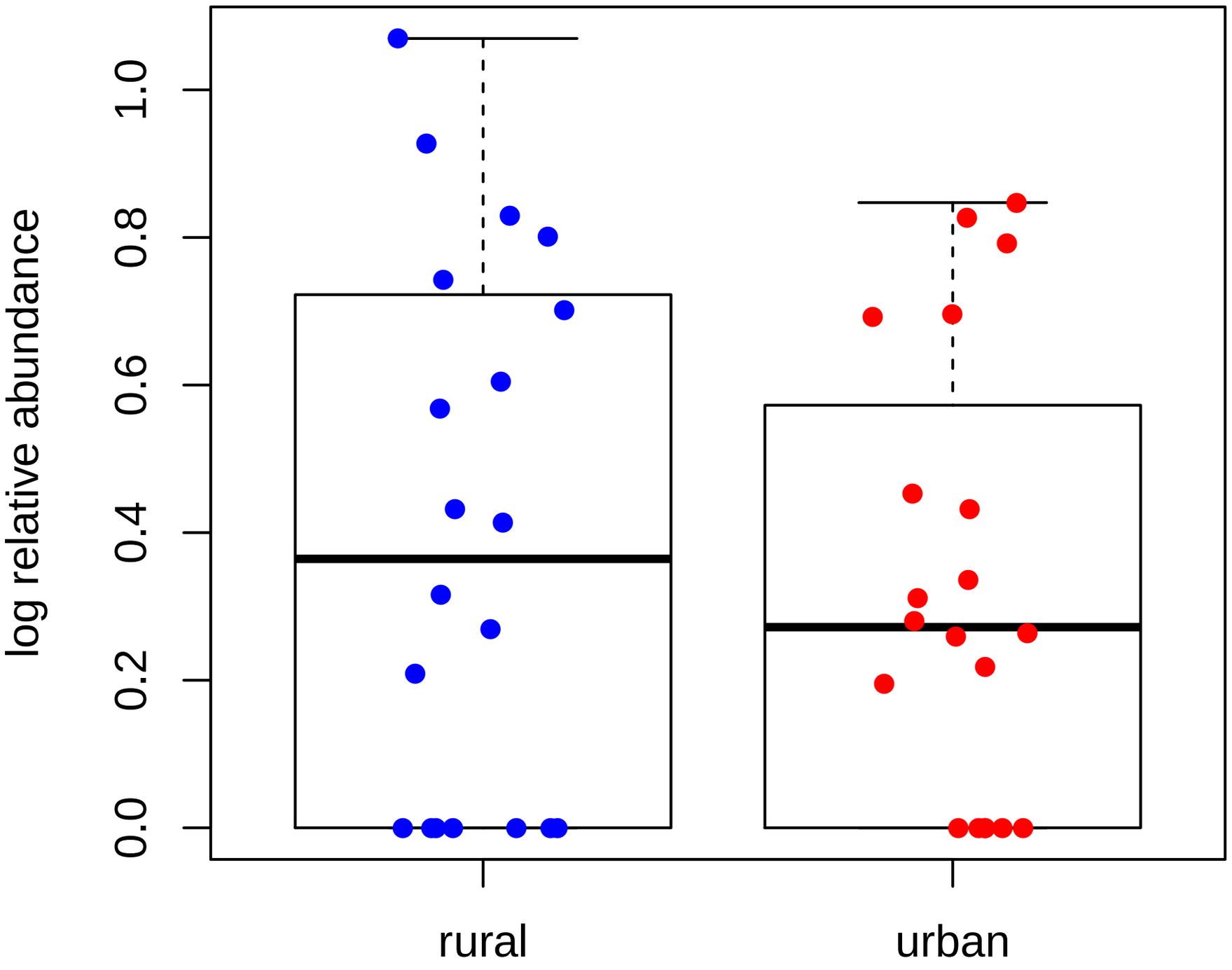

WGS species: Nitrosomonas_europaea
pAdjRuralUrban= 0.703
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

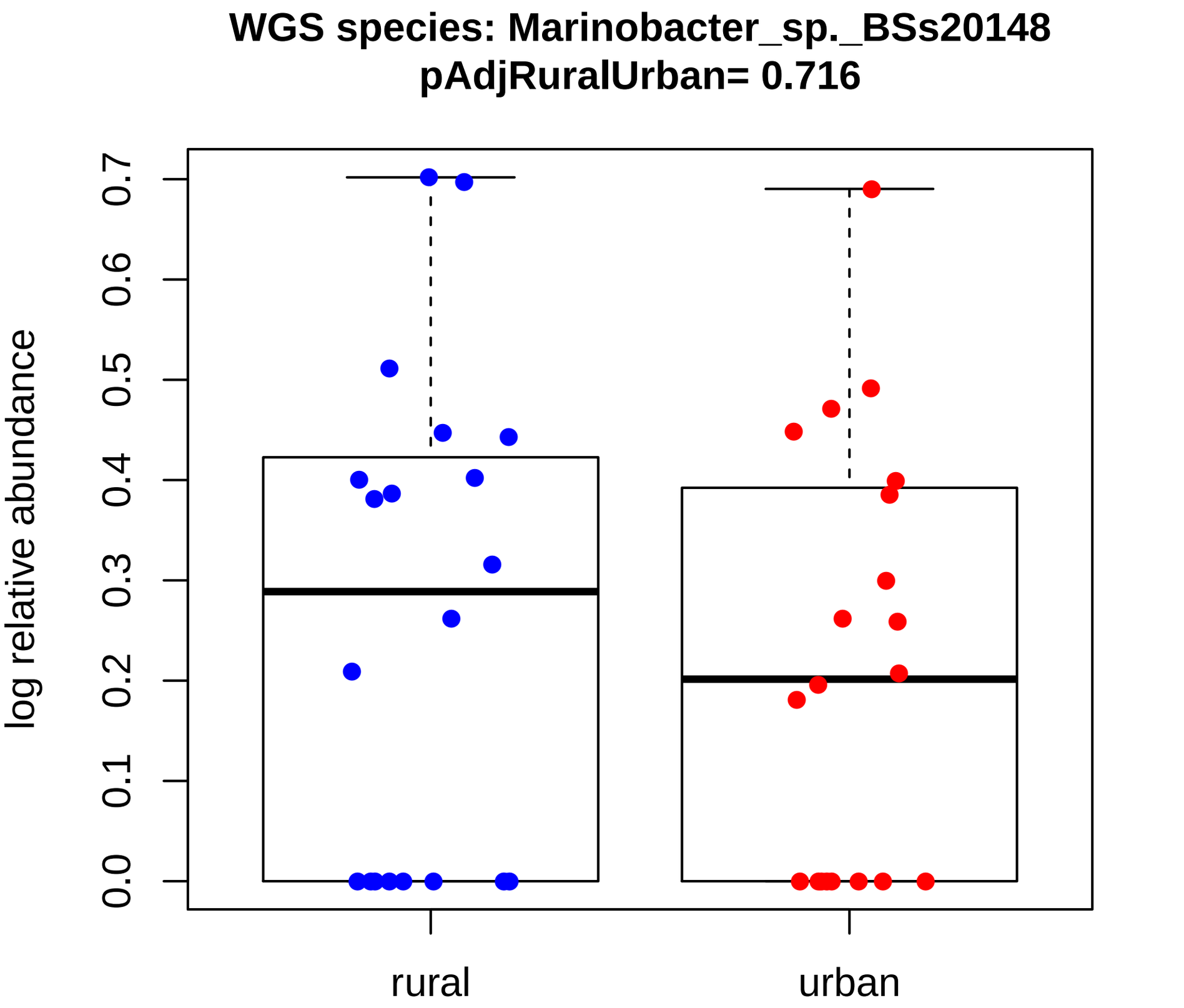

WGS species: Halomonas_elongata
pAdjRuralUrban= 0.704
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

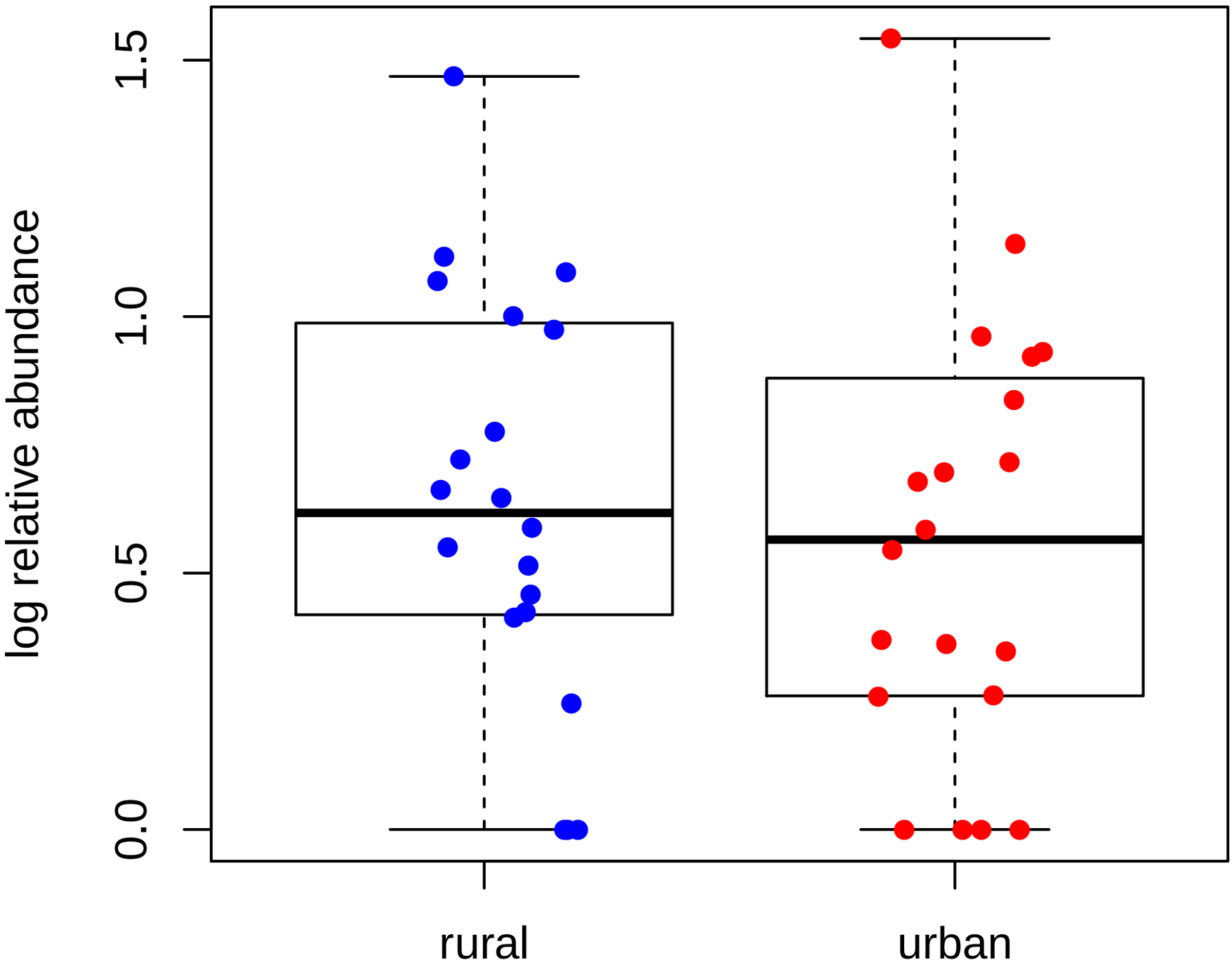

WGS species: Nitrobacter_hamburgensis
pAdjRuralUrban= 0.704
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

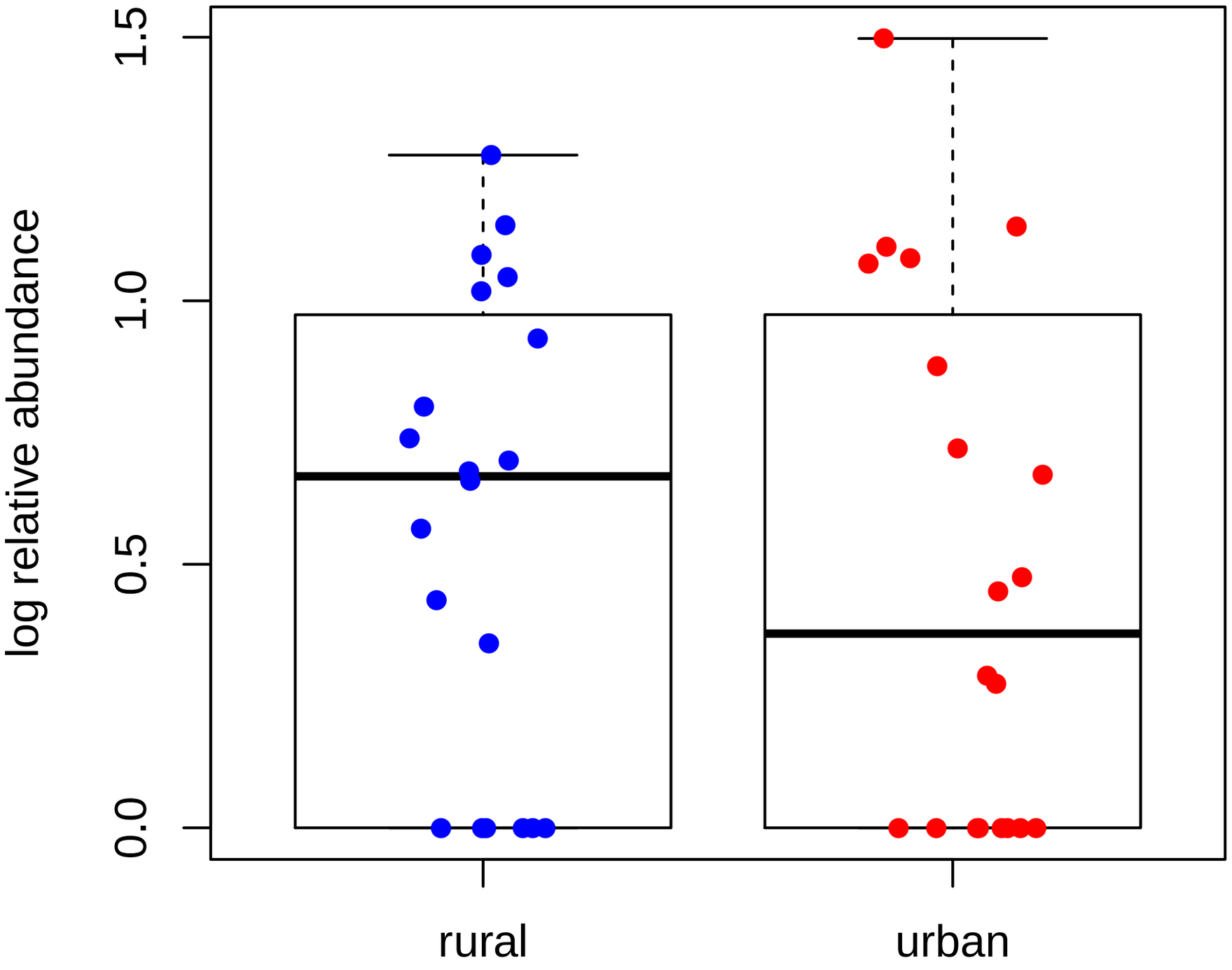

WGS species: Sphingobium_sp._SYK.6
pAdjRuralUrban= 0.706
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

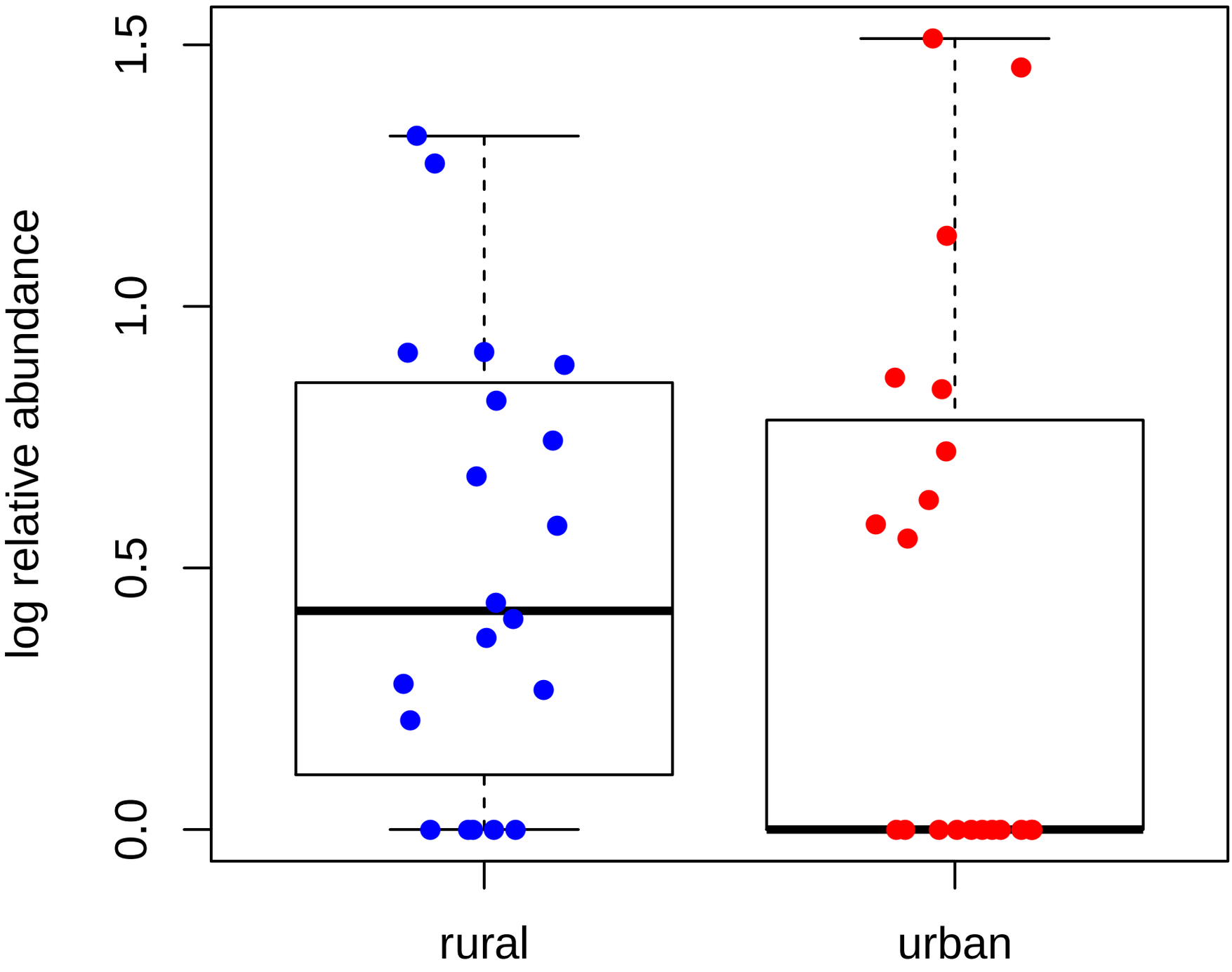

WGS species: Micromonospora_sp._L5
pAdjRuralUrban= 0.707
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

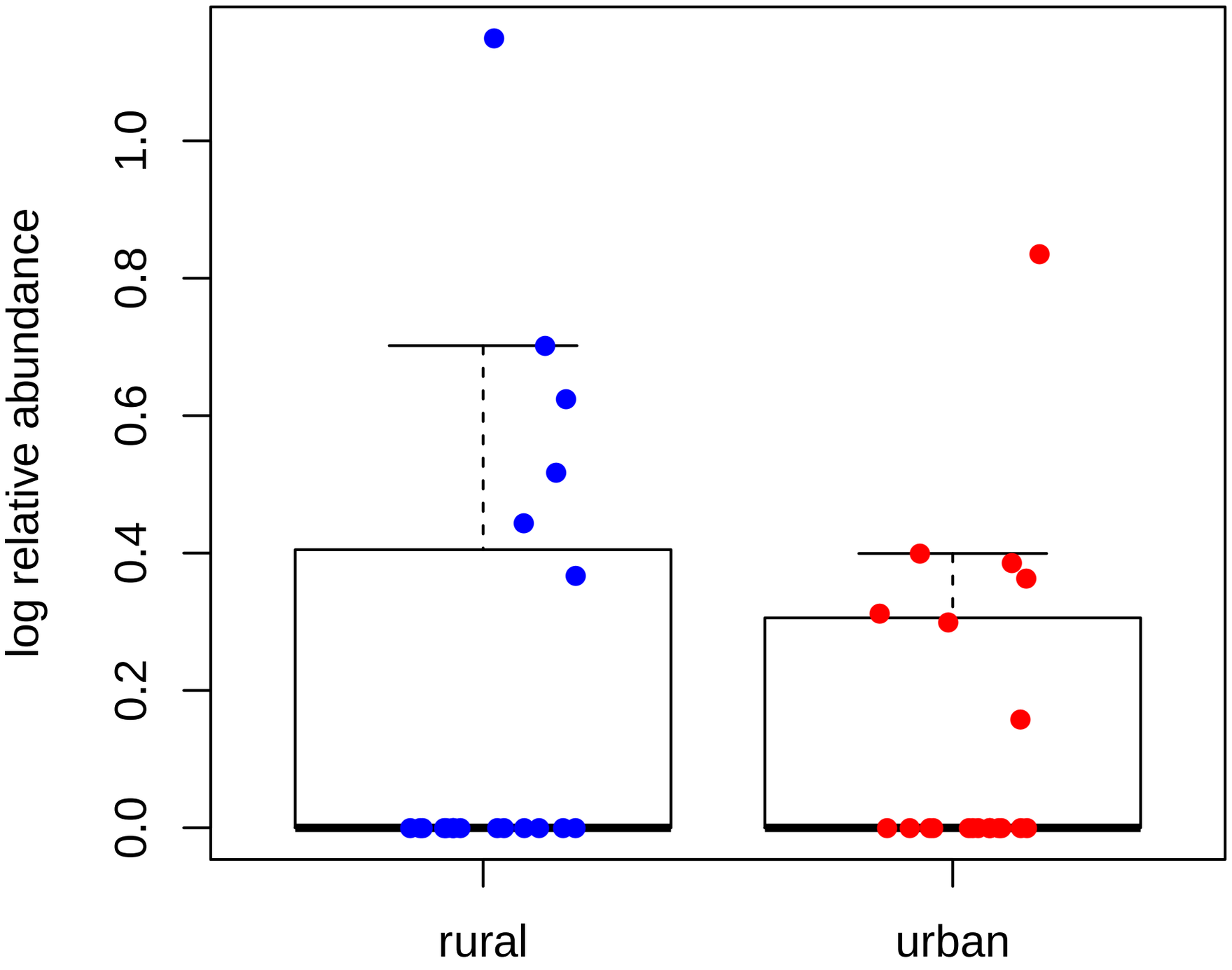

WGS species: Alcanivorax_dieselolei
pAdjRuralUrban= 0.709
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

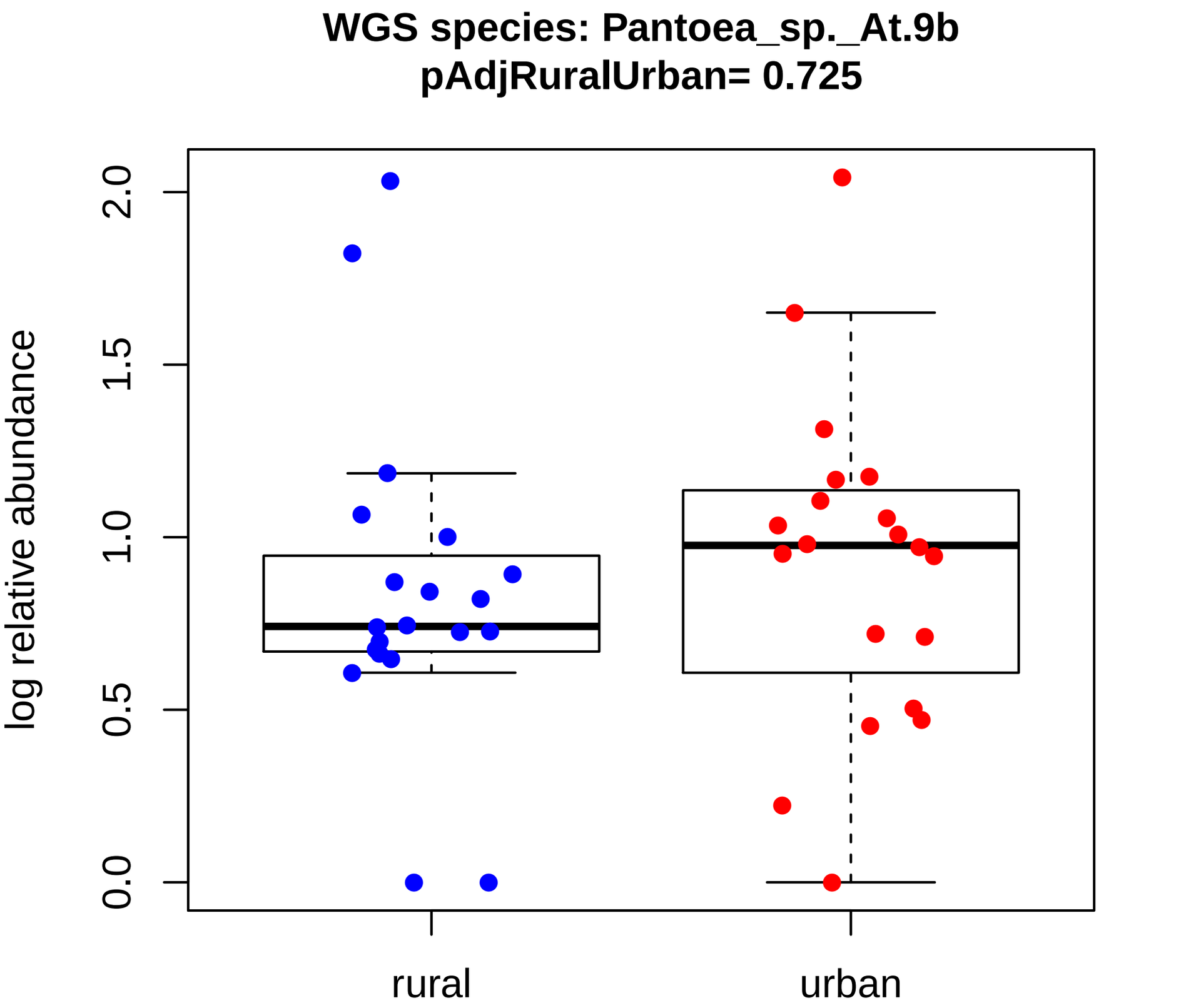

WGS species: Marinobacter_sp._BSs20148
pAdjRuralUrban= 0.716
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

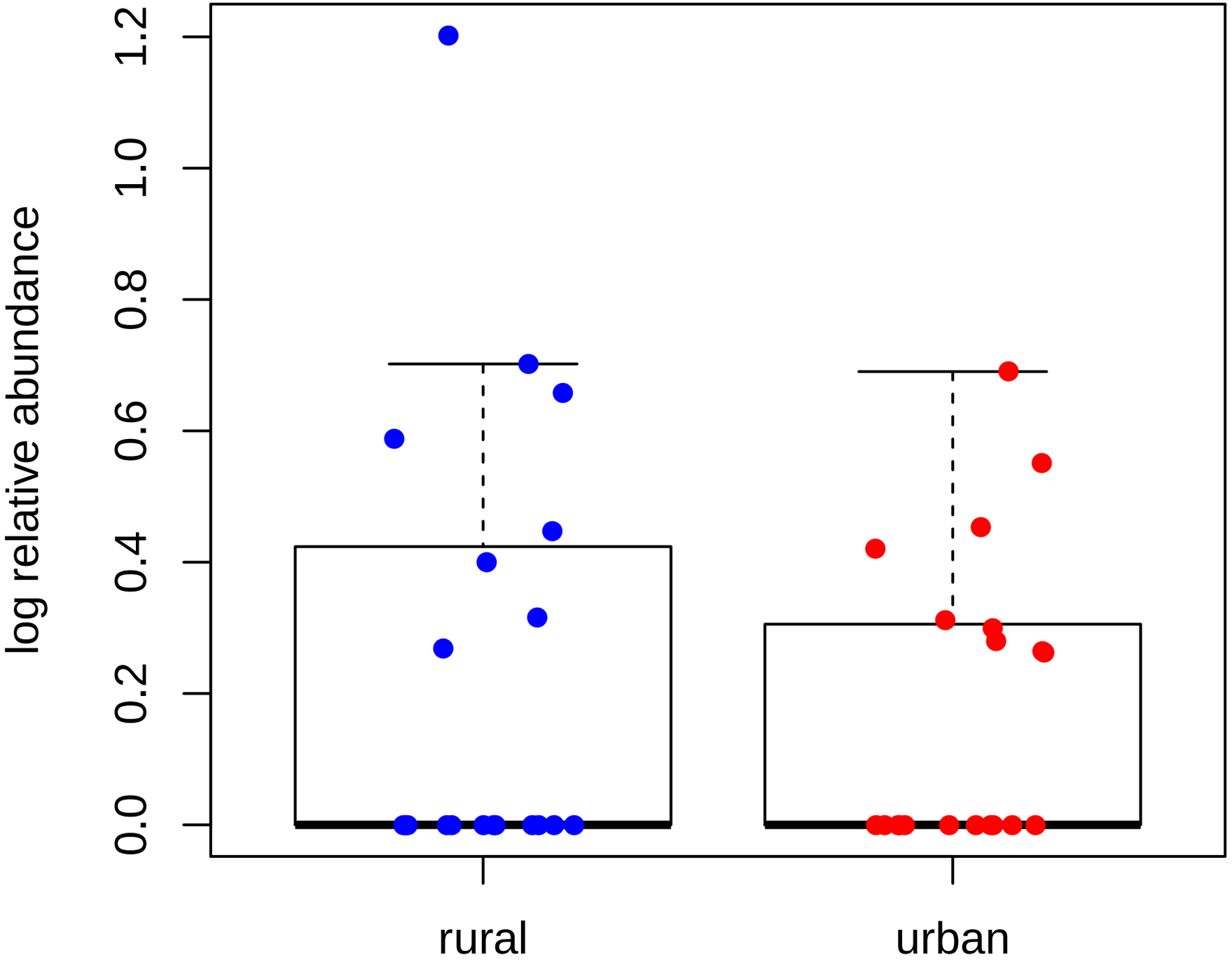

WGS species: Actinosynnema_mirum
pAdjRuralUrban= 0.716
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

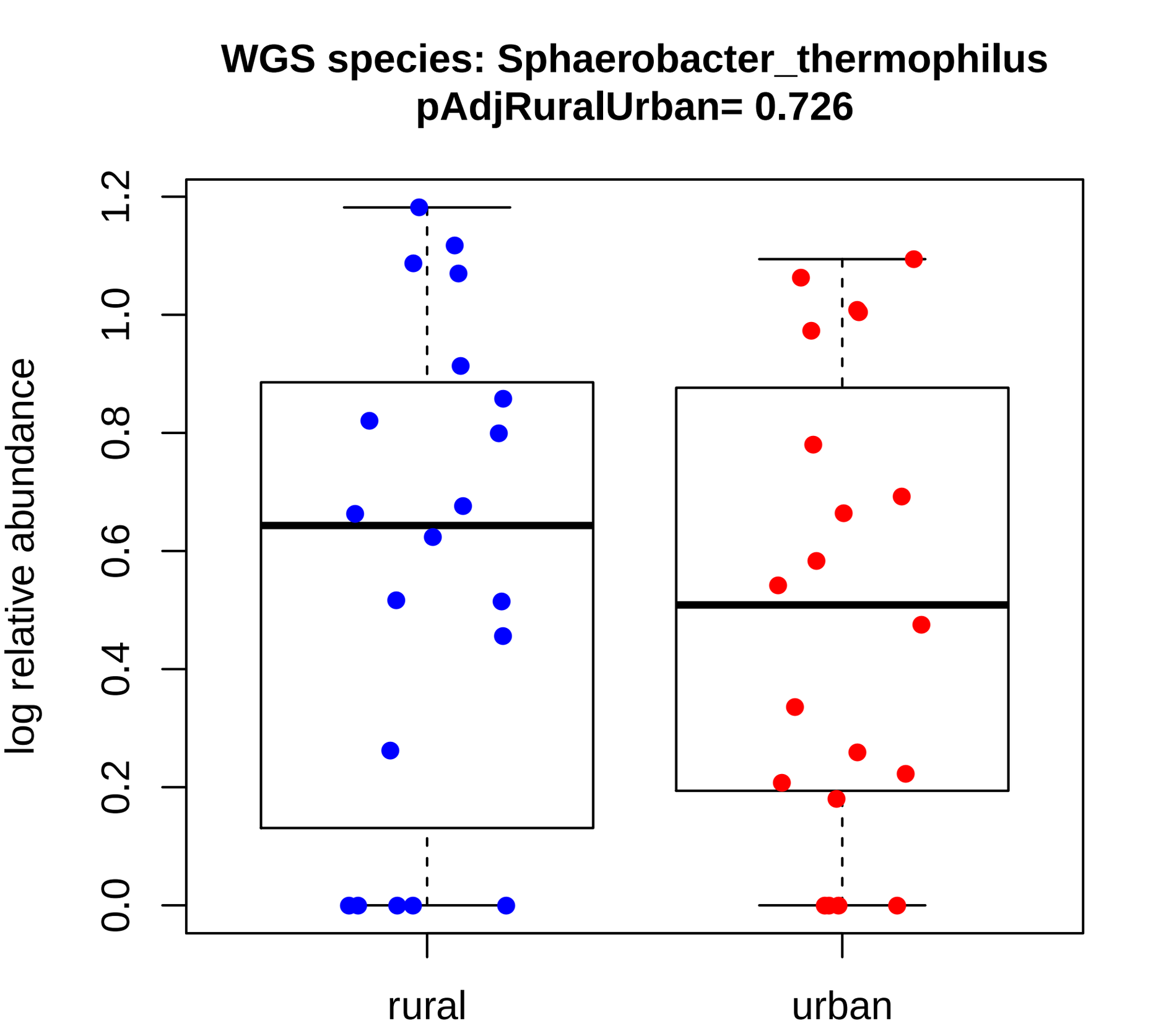

WGS species: Campylobacter_curvus
pAdjRuralUrban= 0.718
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

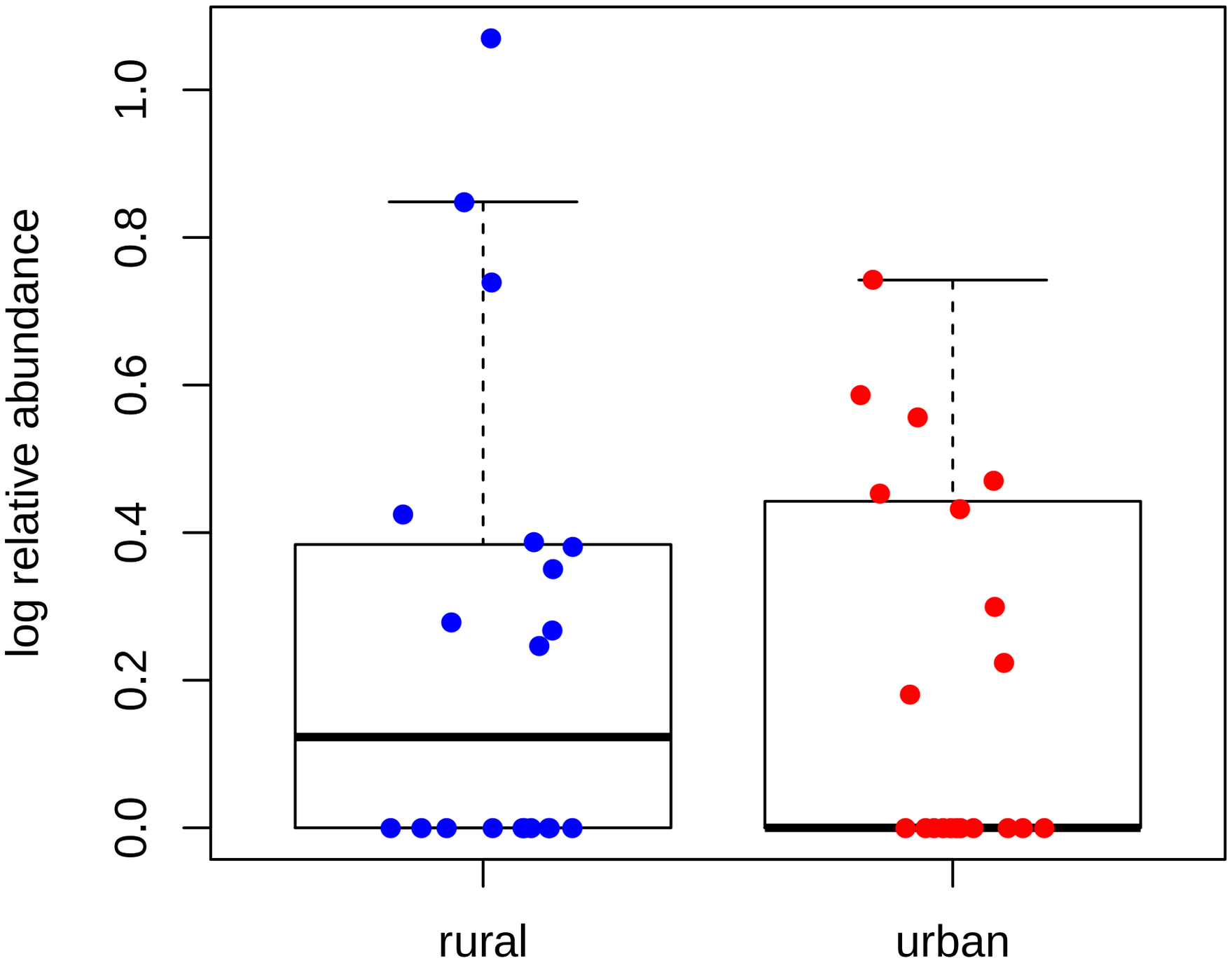

WGS species: Vibrio_campbellii
pAdjRuralUrban= 0.719
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

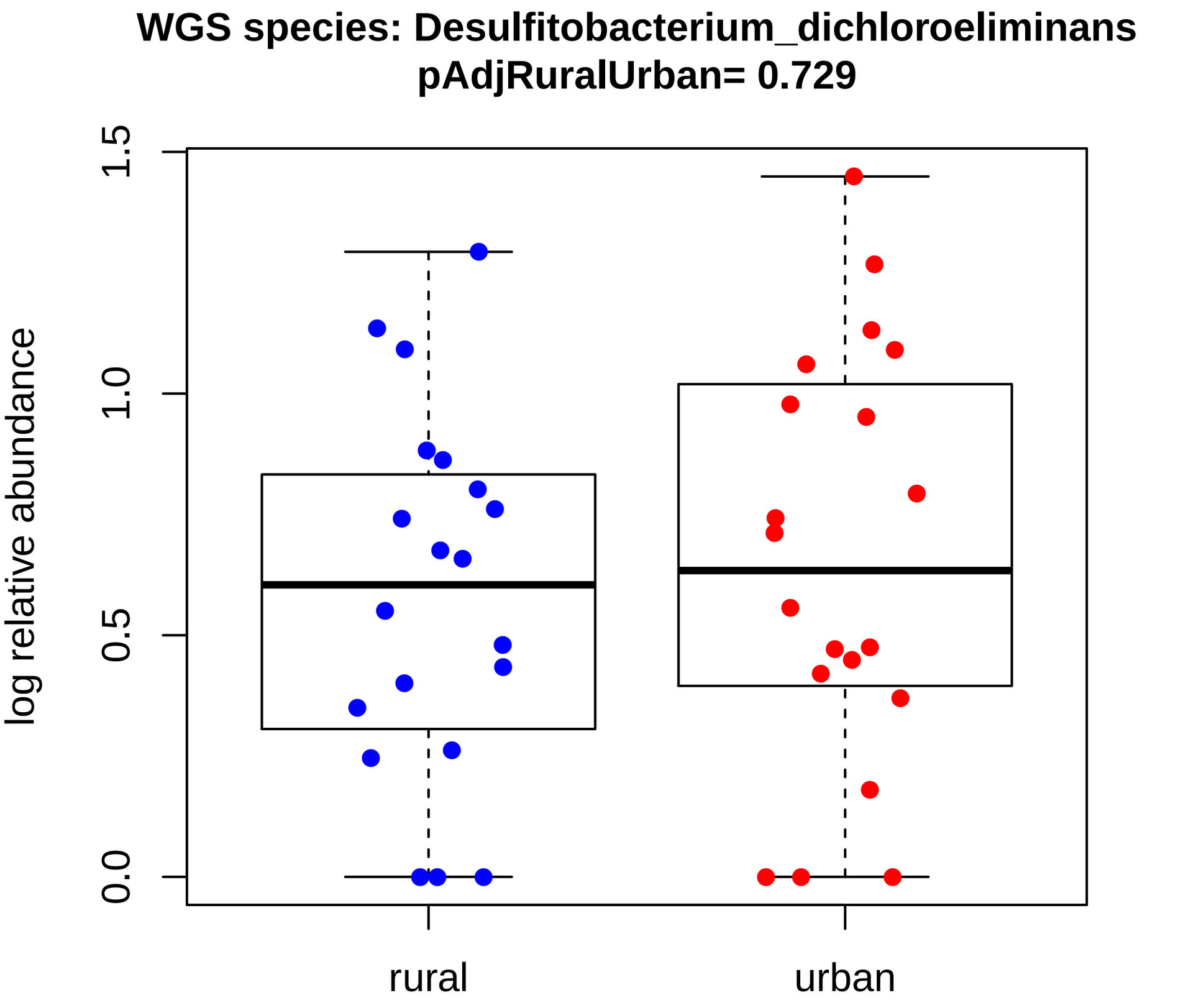

WGS species: Enterobacteria_phage_SfV
pAdjRuralUrban= 0.721
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

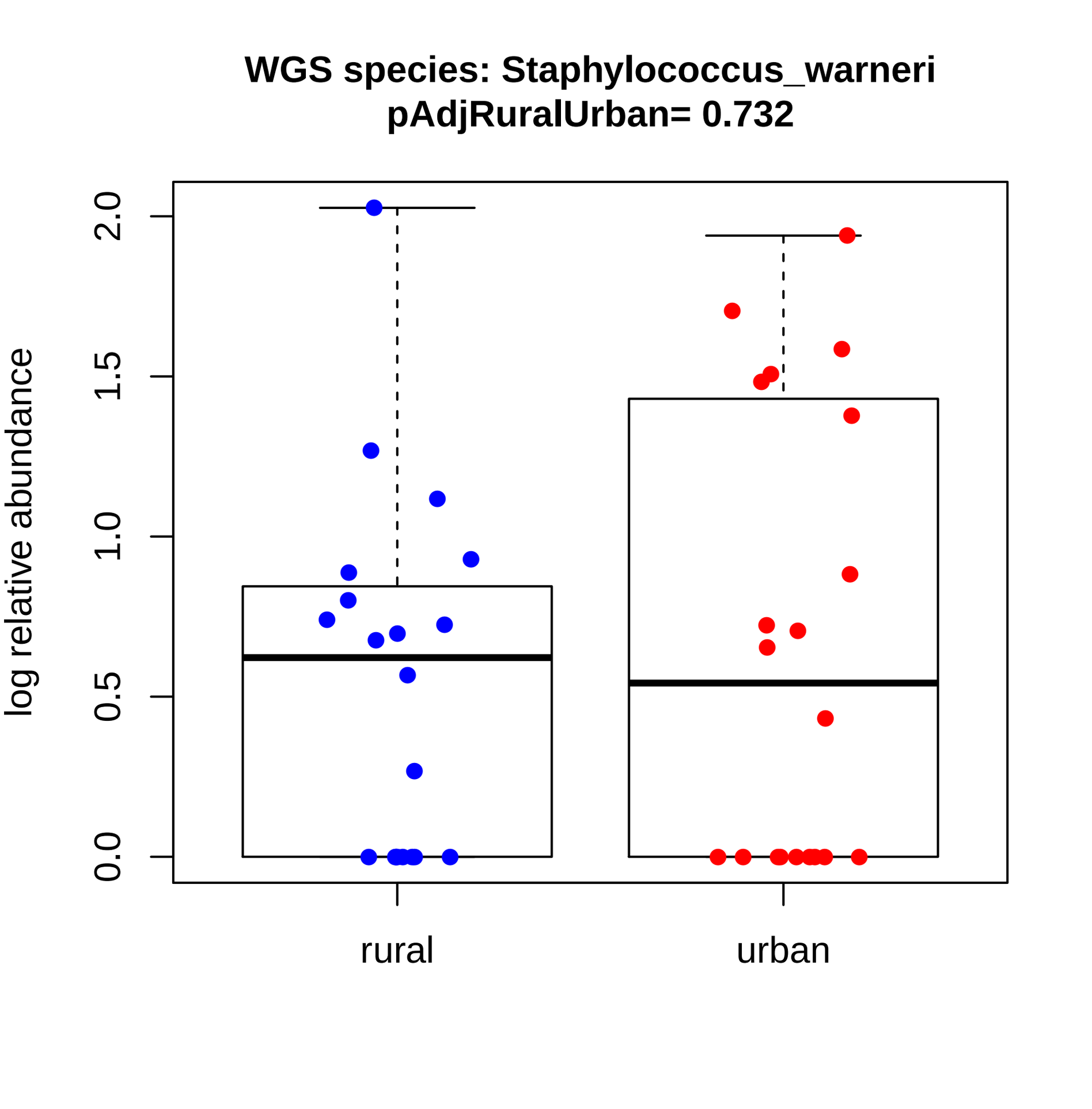

WGS species: Pantoea_sp._At.9b
pAdjRuralUrban= 0.725
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

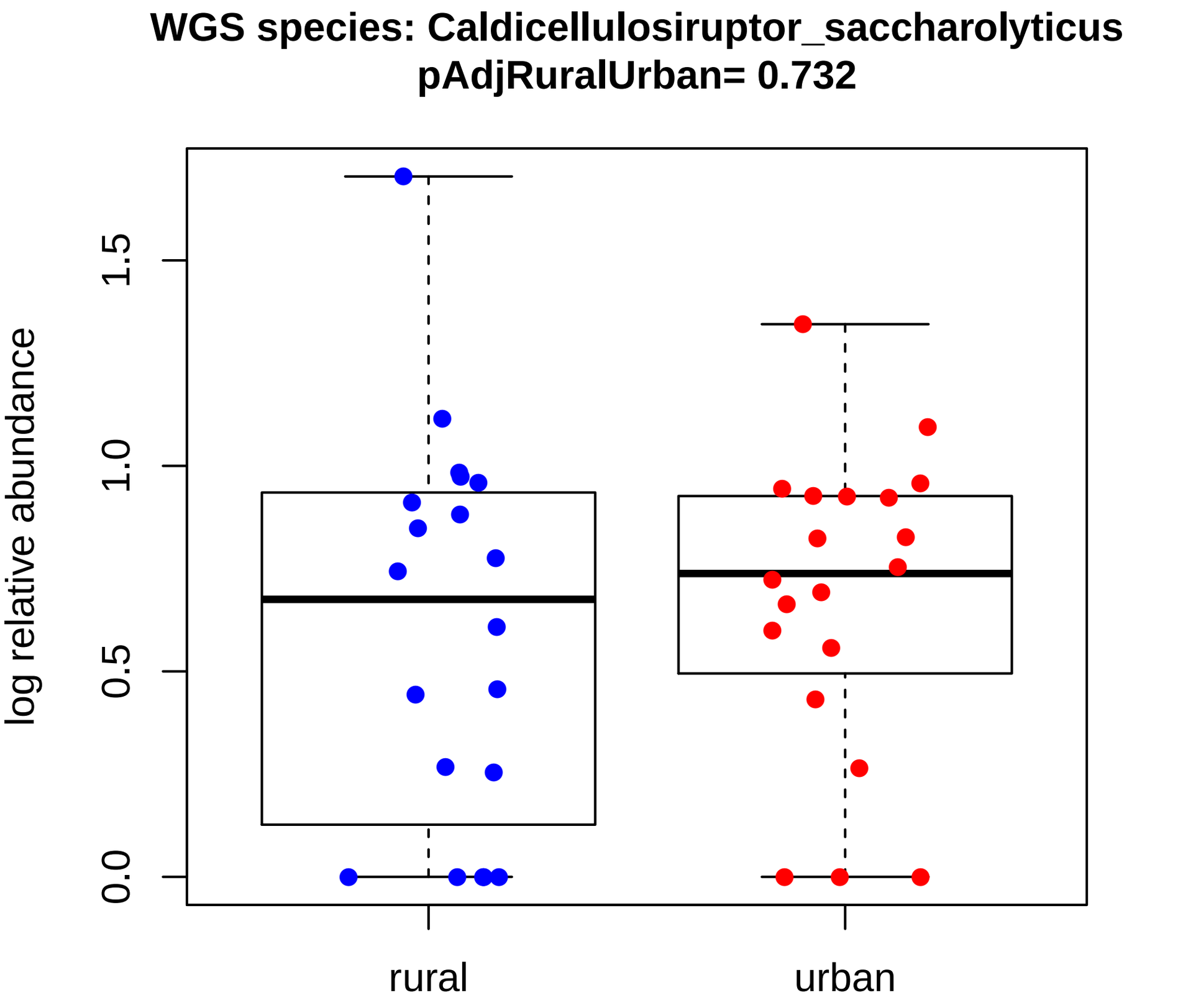

WGS species: Parvularcula_bermudensis
pAdjRuralUrban= 0.726
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

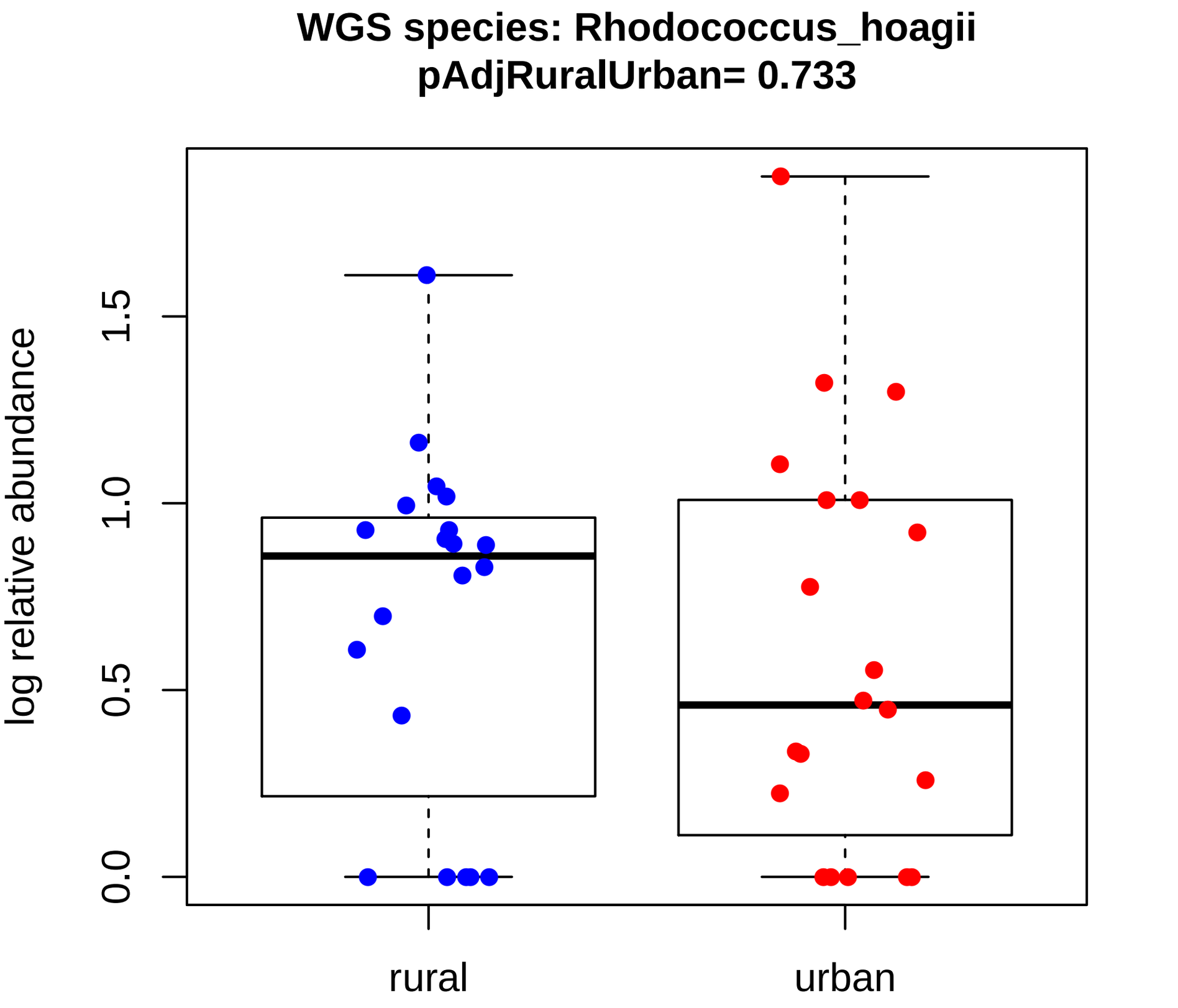

WGS species: Sphaerobacter_thermophilus
pAdjRuralUrban= 0.726
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

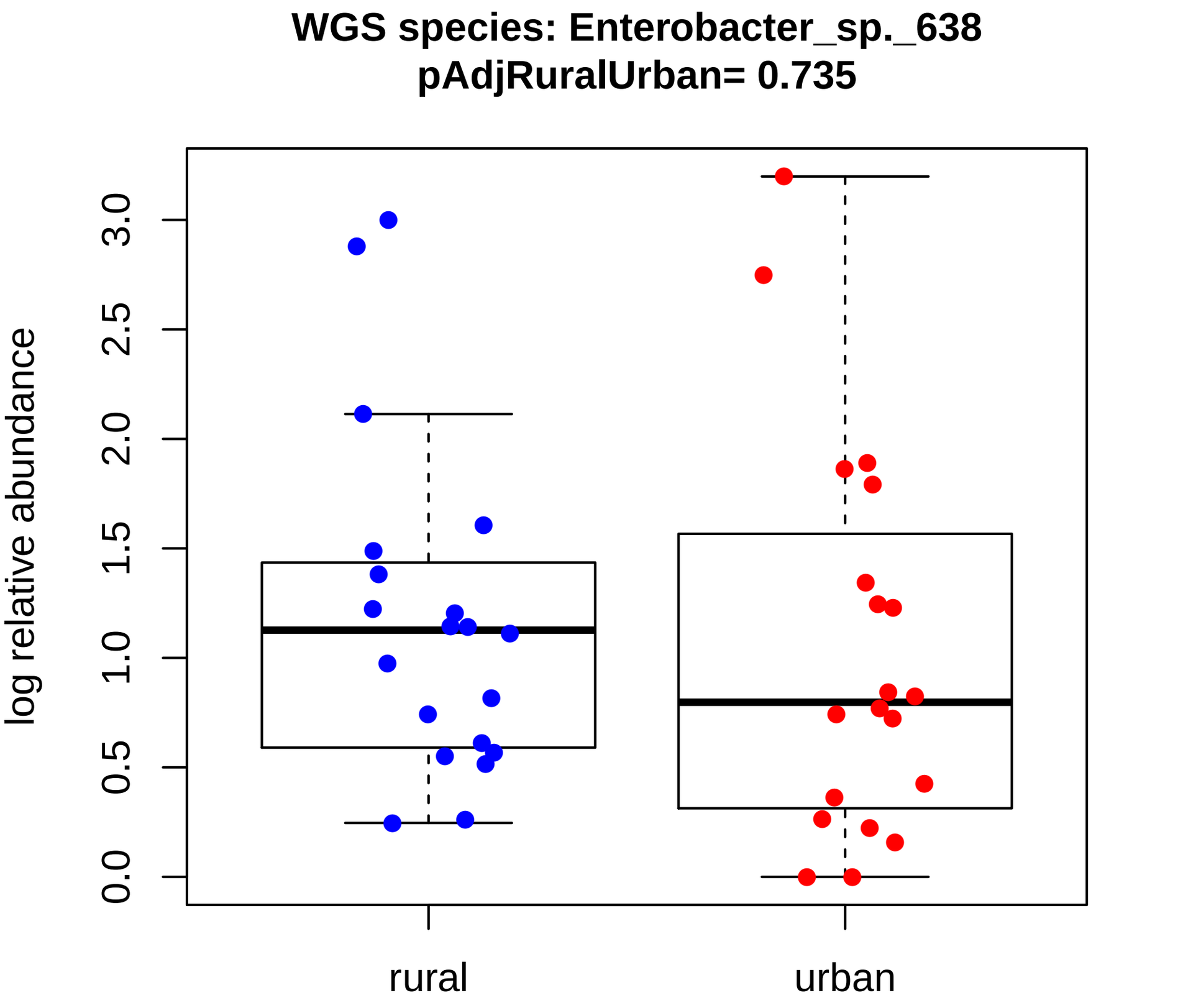

WGS species: Synechococcus_elongatus
pAdjRuralUrban= 0.729
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

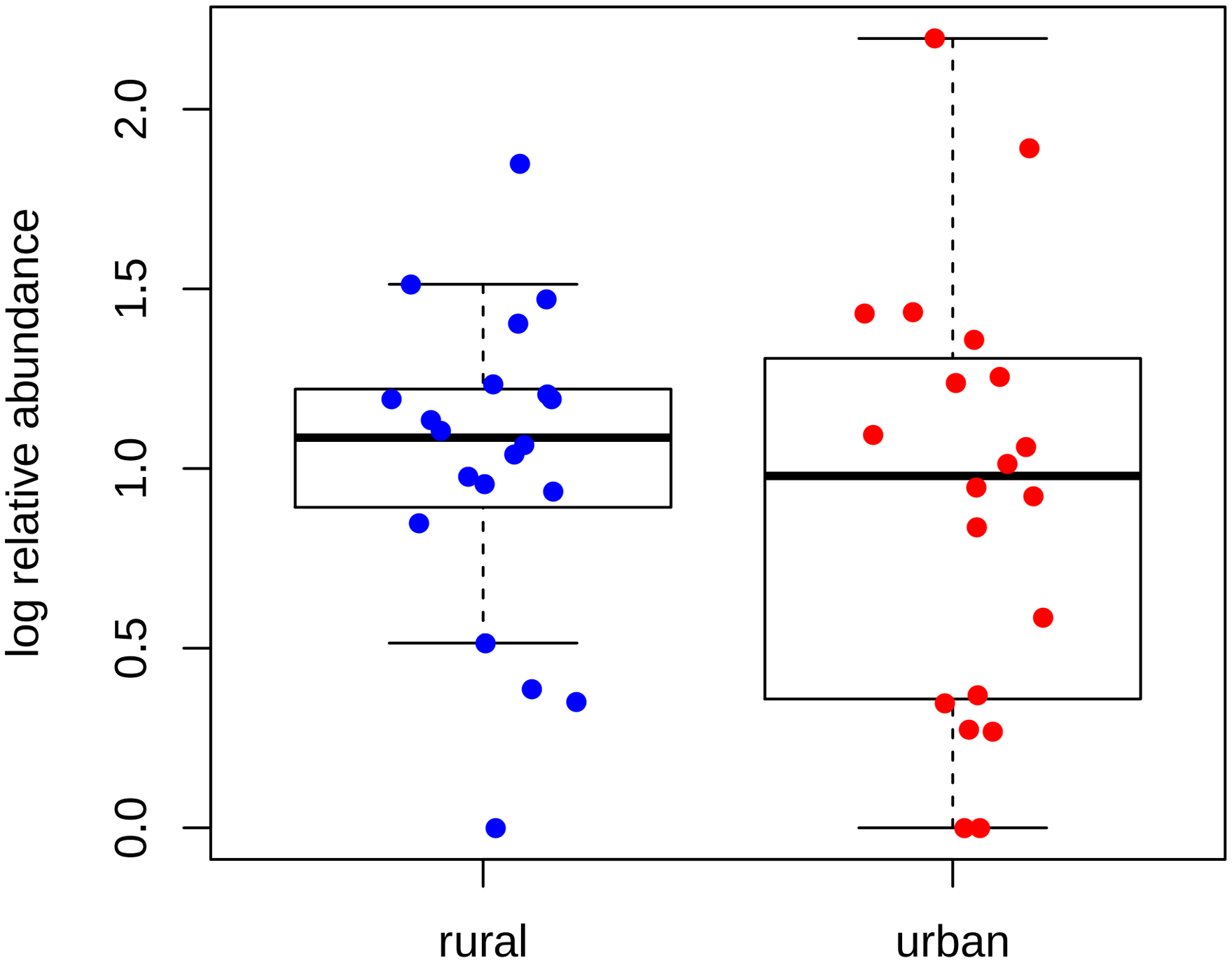

WGS species: Desulfitobacterium_dichloroeliminans
pAdjRuralUrban= 0.729
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

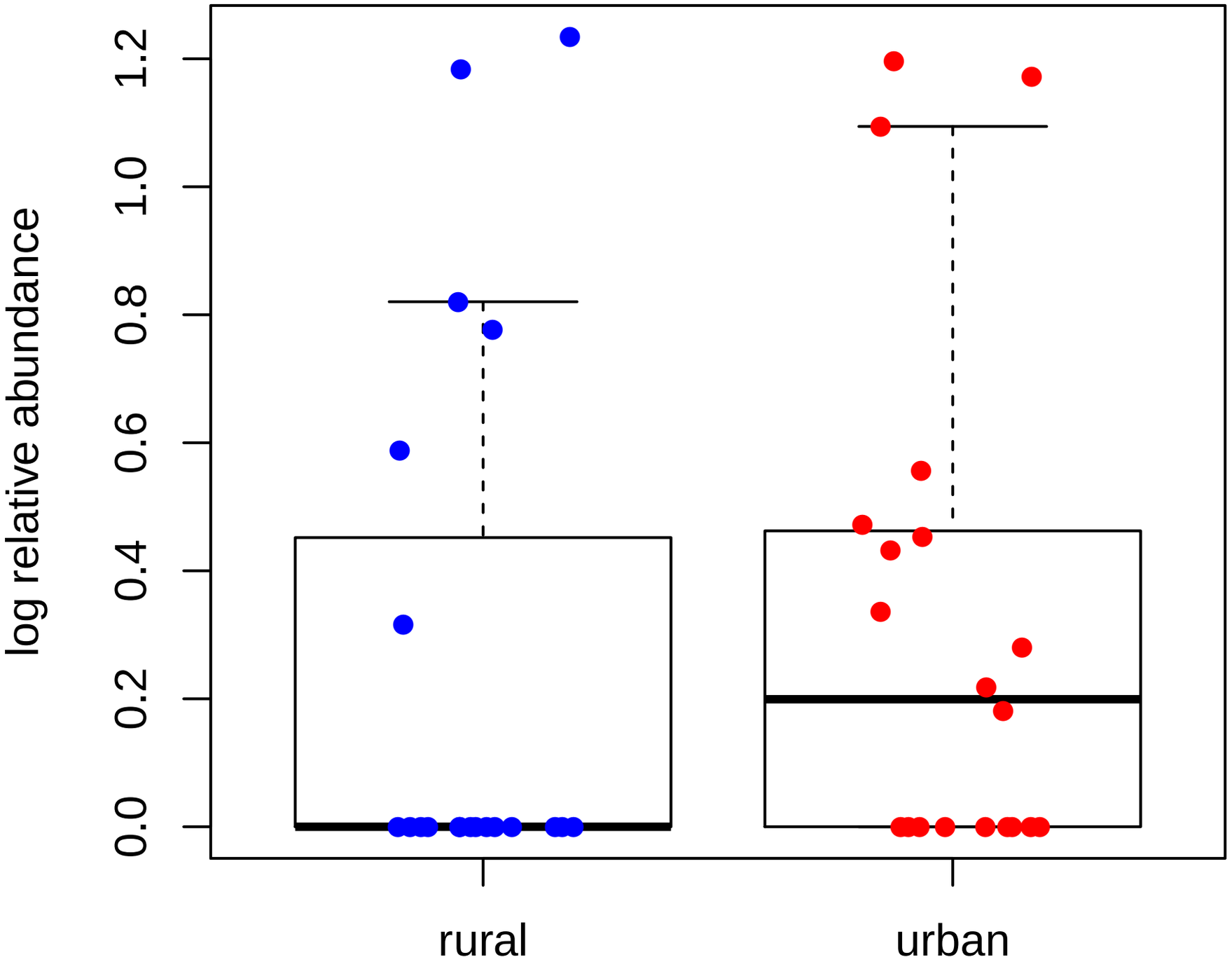

WGS species: Staphylococcus_warneri
pAdjRuralUrban= 0.732
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

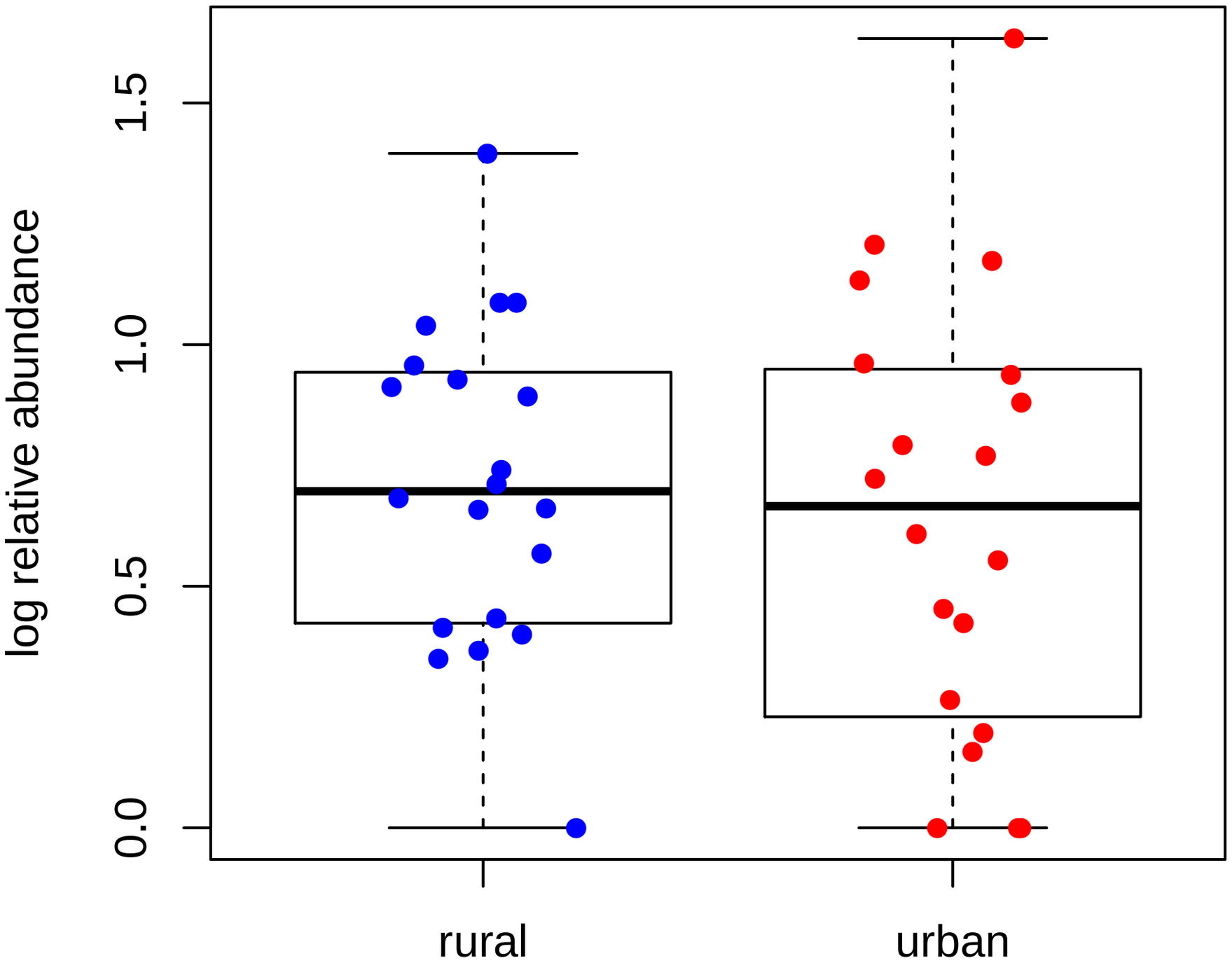

WGS species: Caldicellulosiruptor_saccharolyticus
pAdjRuralUrban= 0.732
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

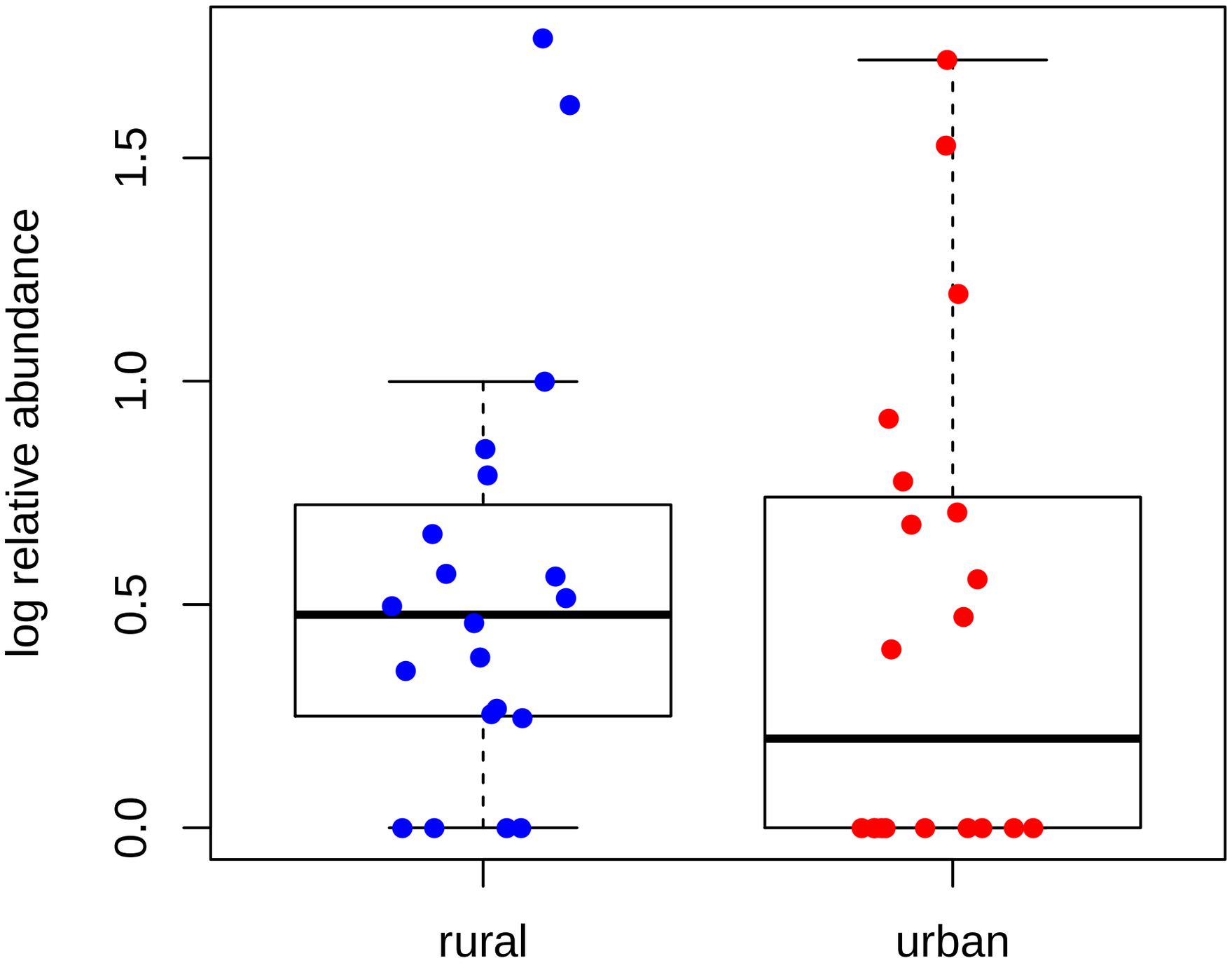

WGS species: Rhodococcus_hoagii
pAdjRuralUrban= 0.733
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

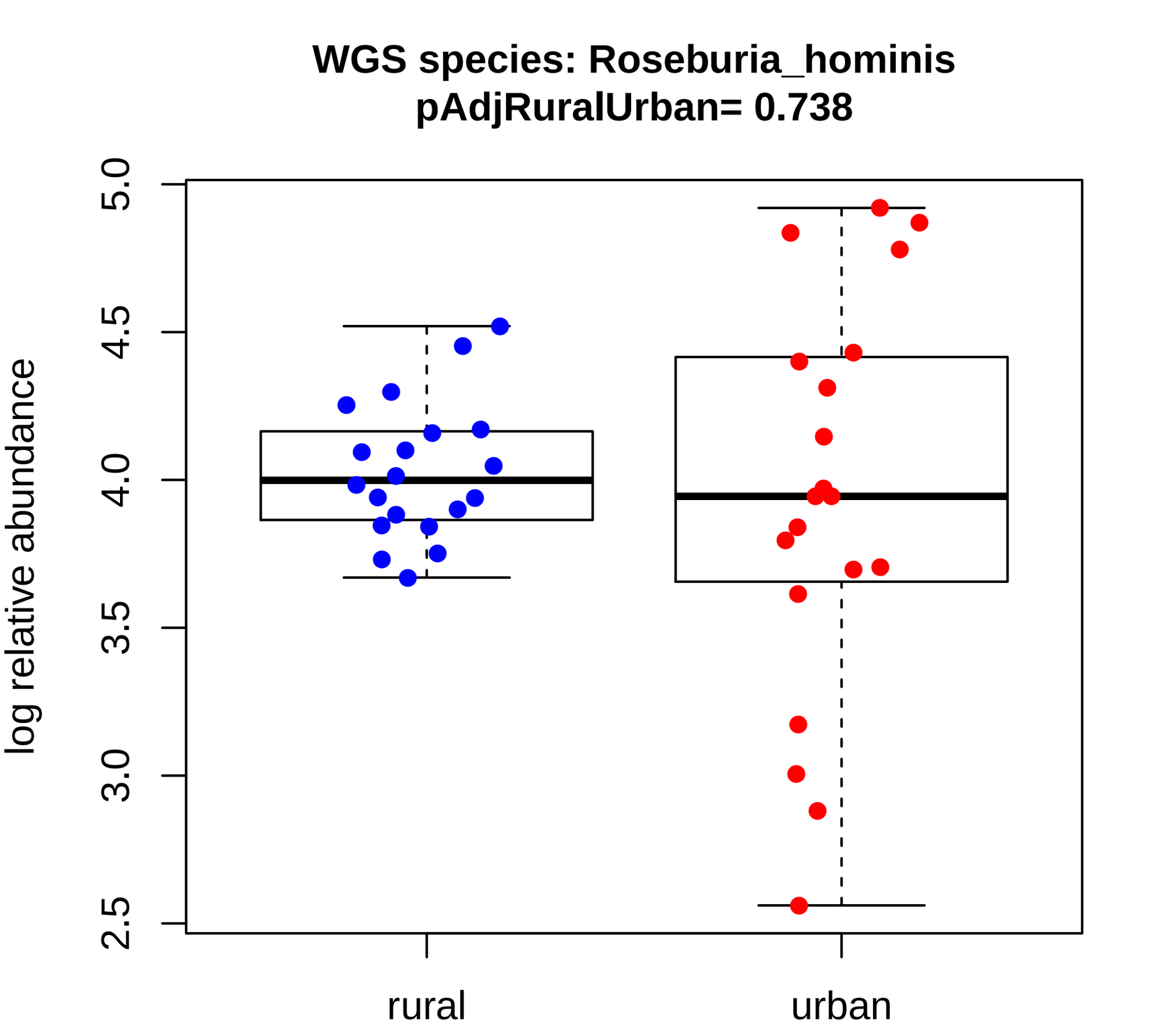

WGS species: Enterobacter_sp._638
pAdjRuralUrban= 0.735
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

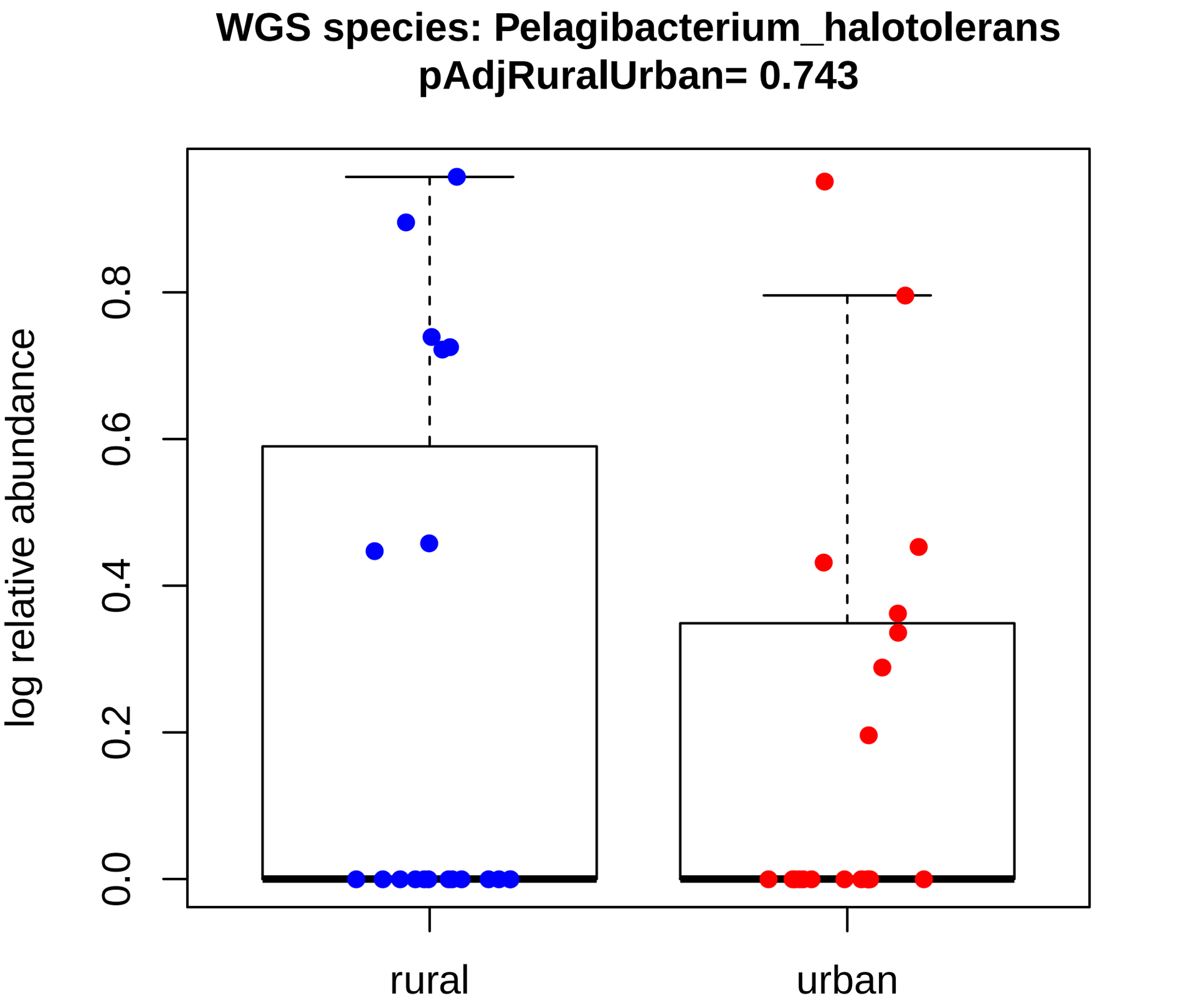

WGS species: Desulfococcus_oleovorans
pAdjRuralUrban= 0.735
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

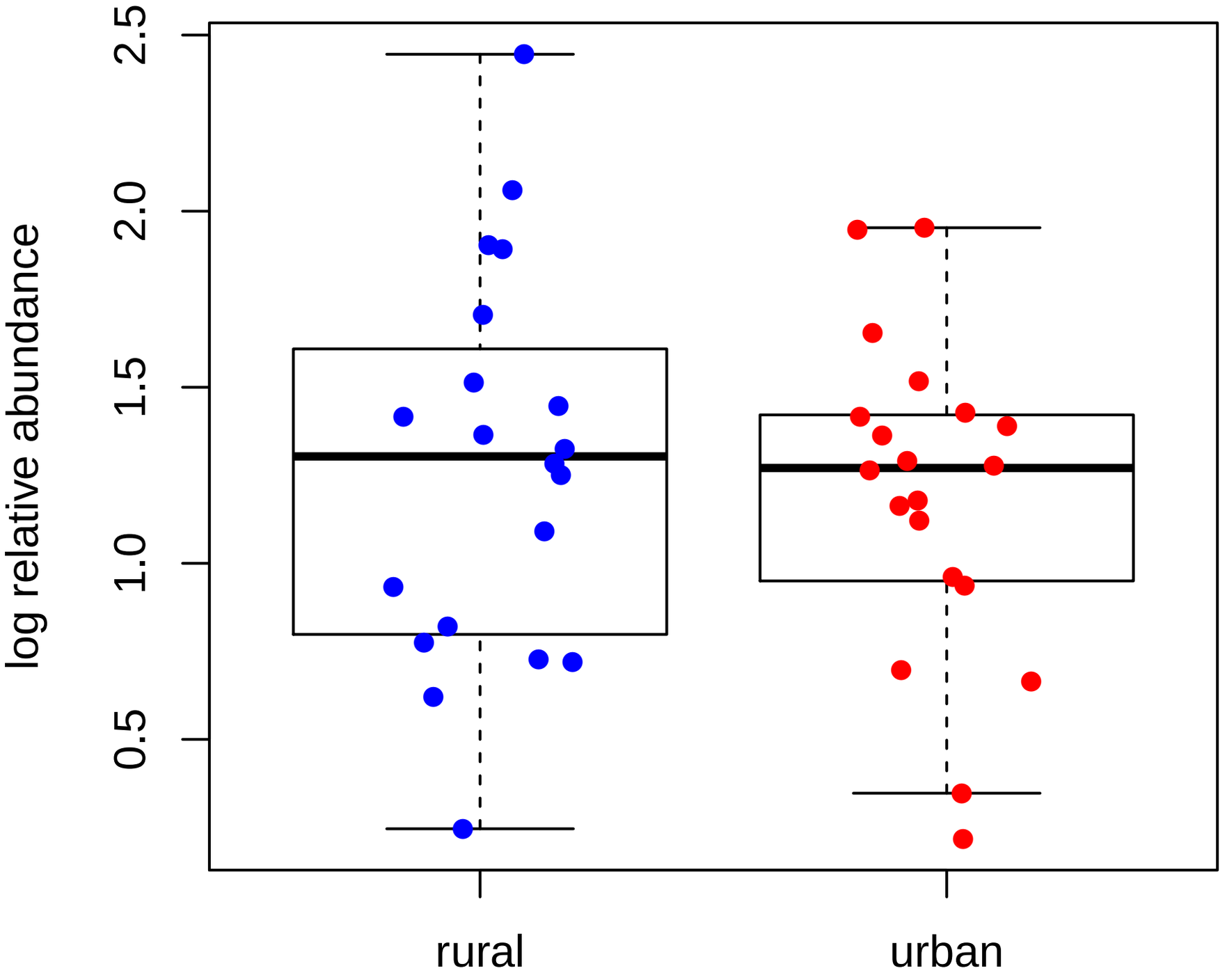

WGS species: Shewanella_baltica
pAdjRuralUrban= 0.735
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

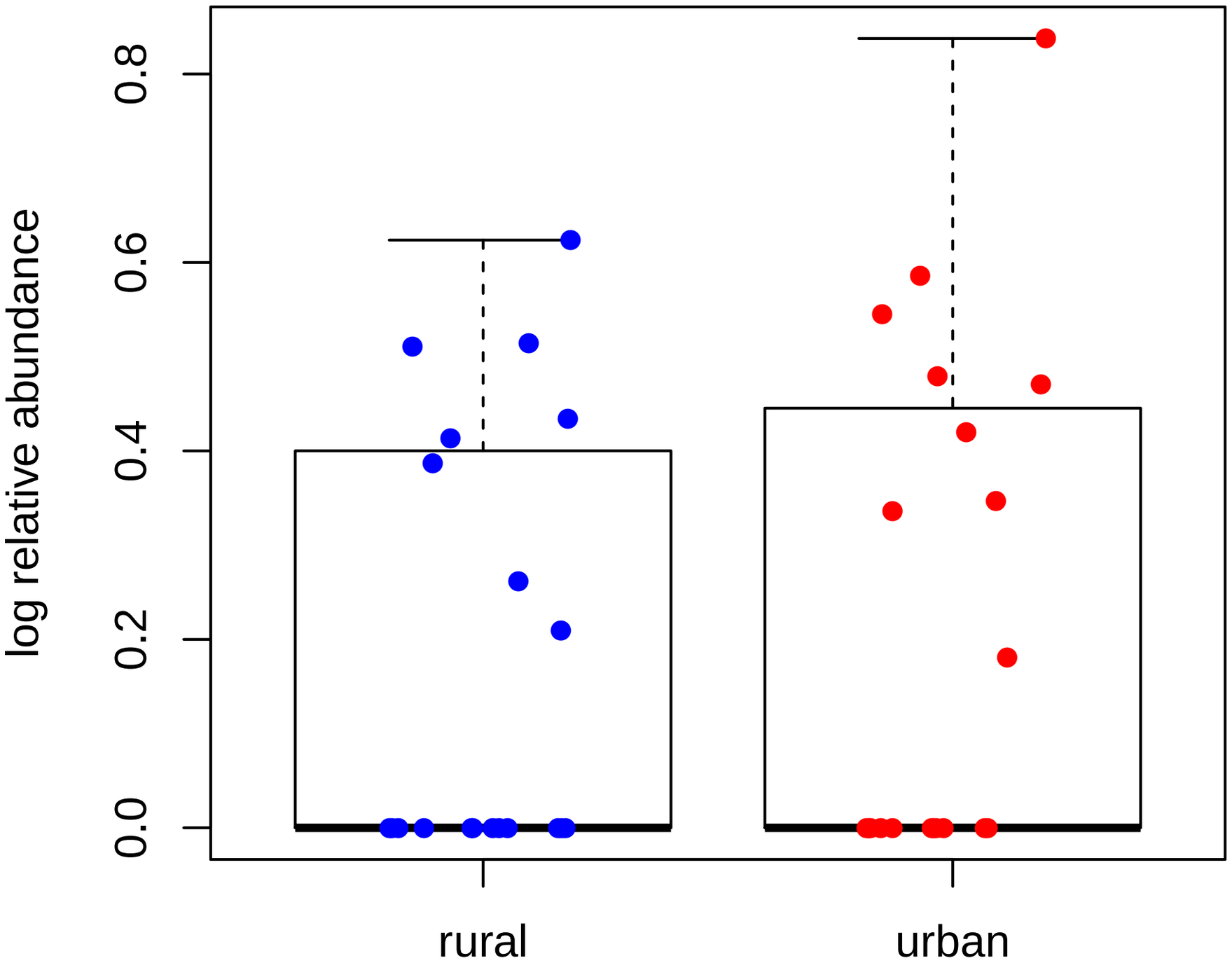

WGS species: Saccharopolyspora_erythraea
pAdjRuralUrban= 0.735
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

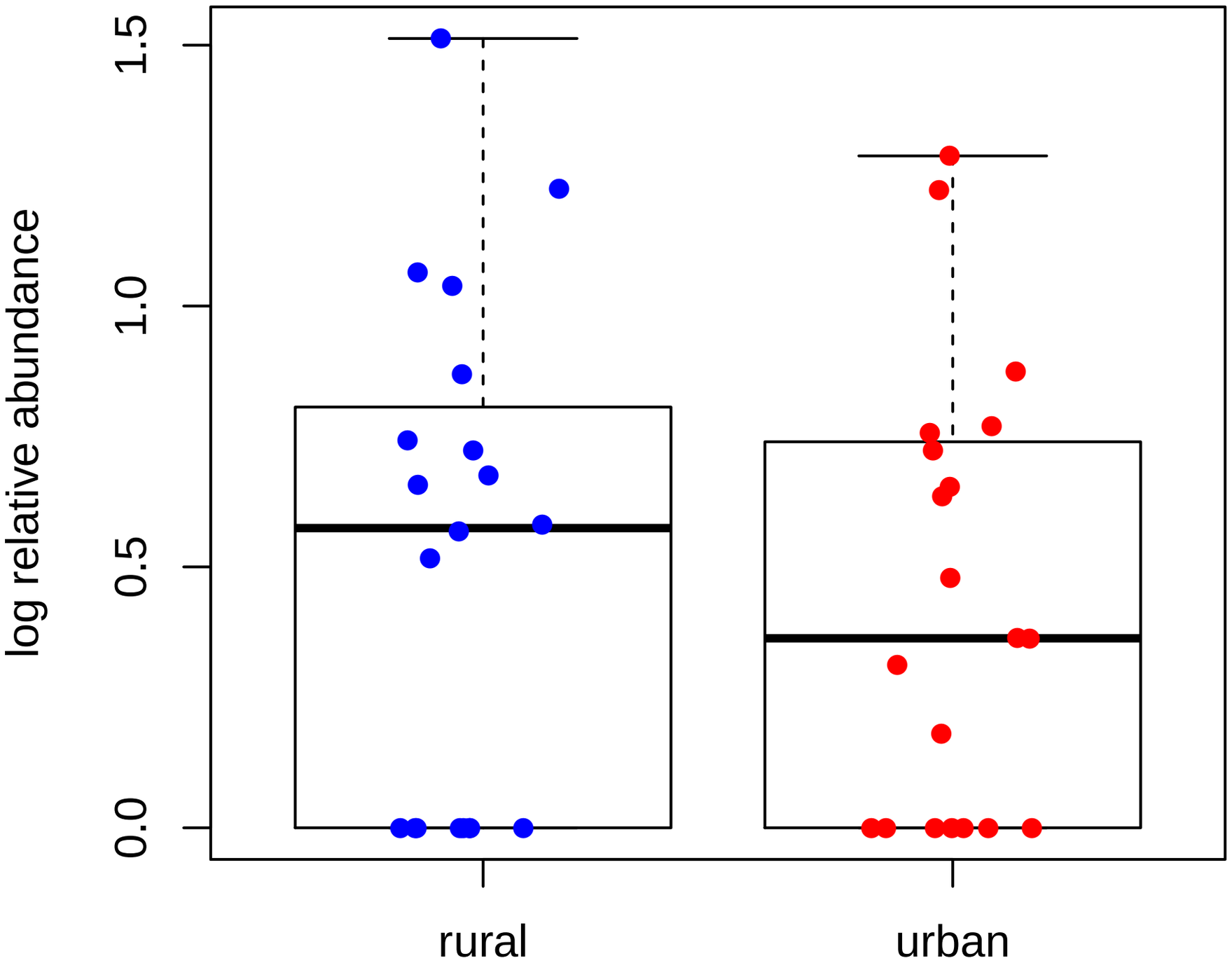

WGS species: Acidovorax_ebreus
pAdjRuralUrban= 0.737
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

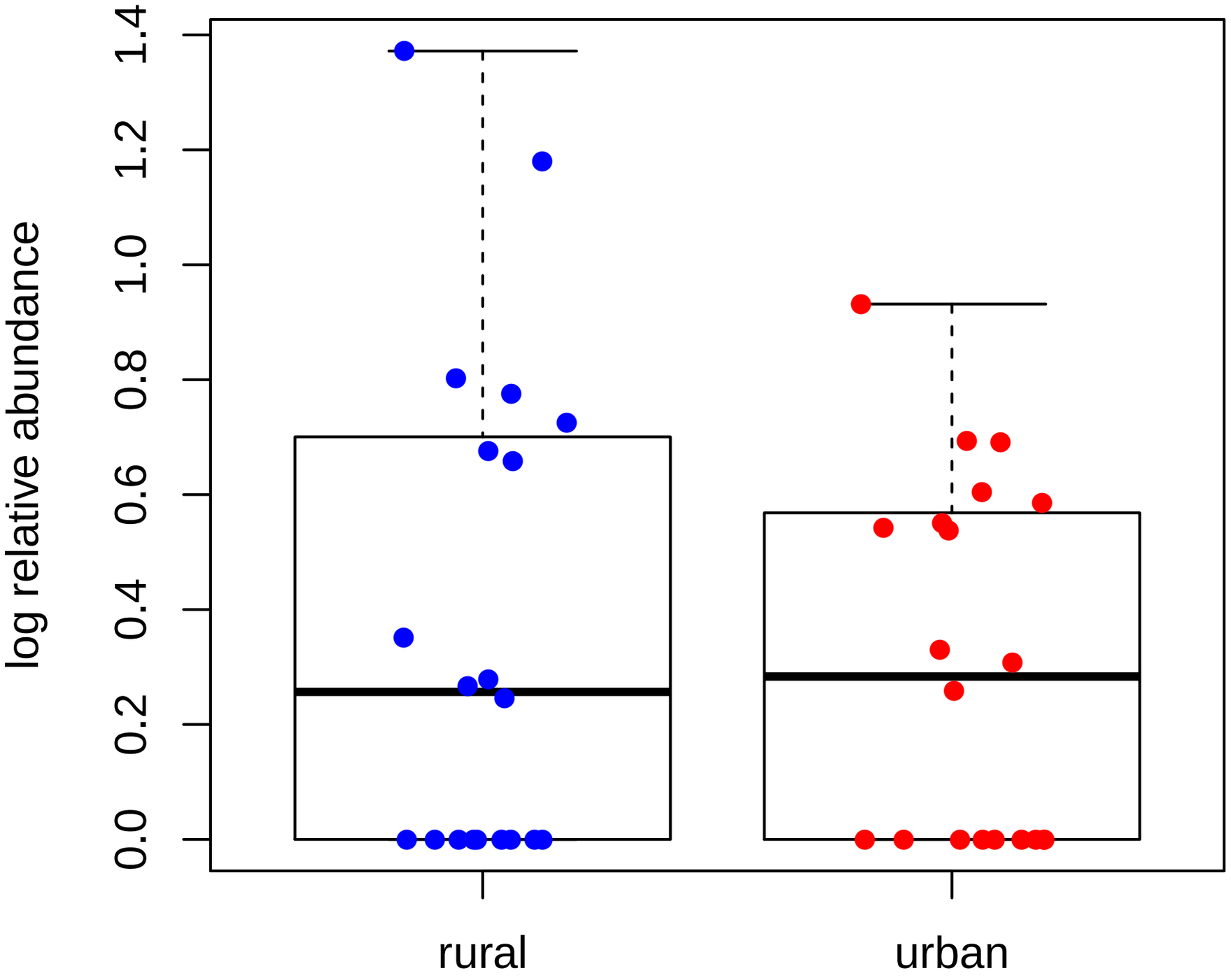

WGS species: Roseburia_hominis
pAdjRuralUrban= 0.738
log relative abundance
5.0
4.5
4.0
3.5
3.0
2.5
rural
urban

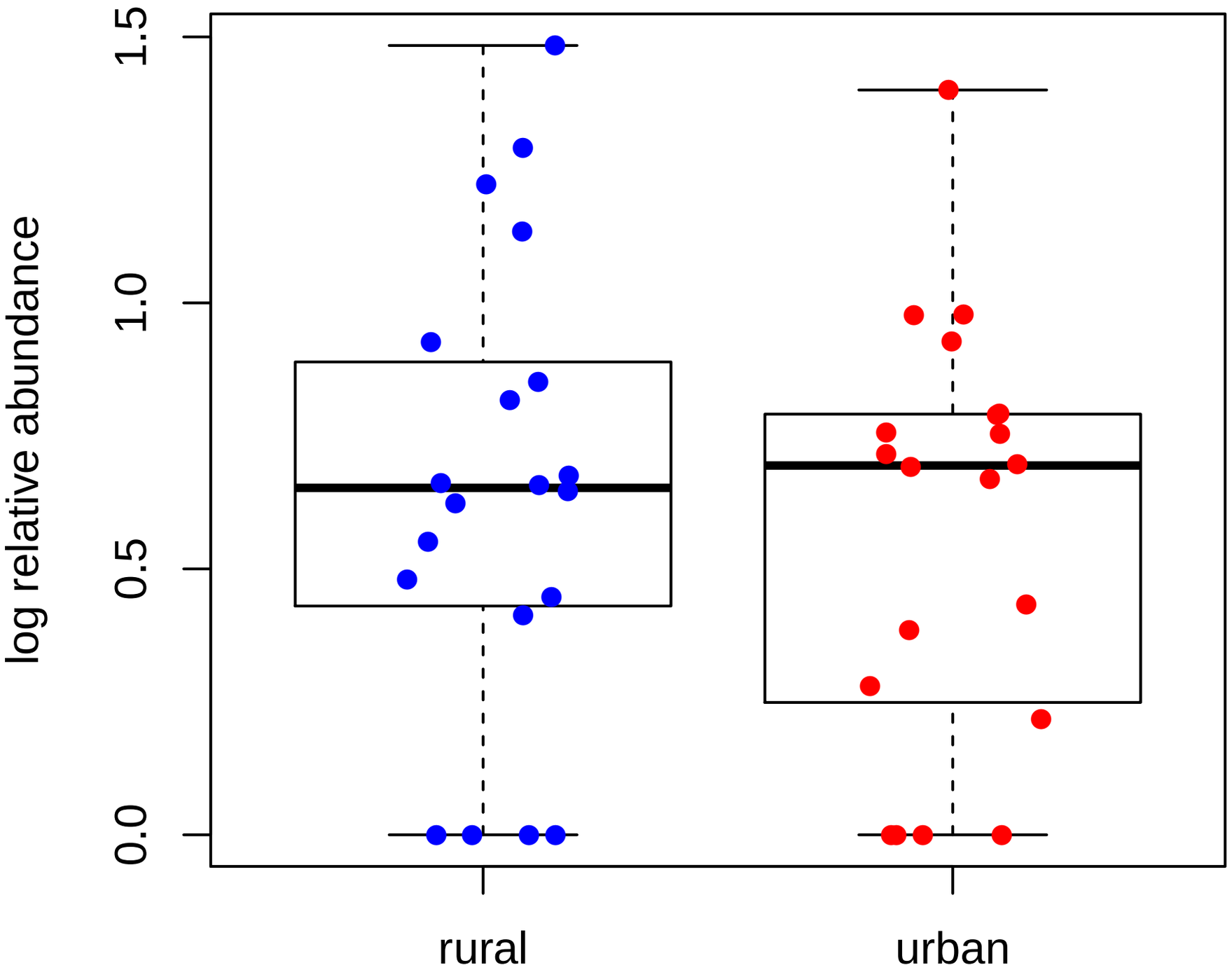

WGS species: Pelagibacterium_halotolerans
pAdjRuralUrban= 0.743
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

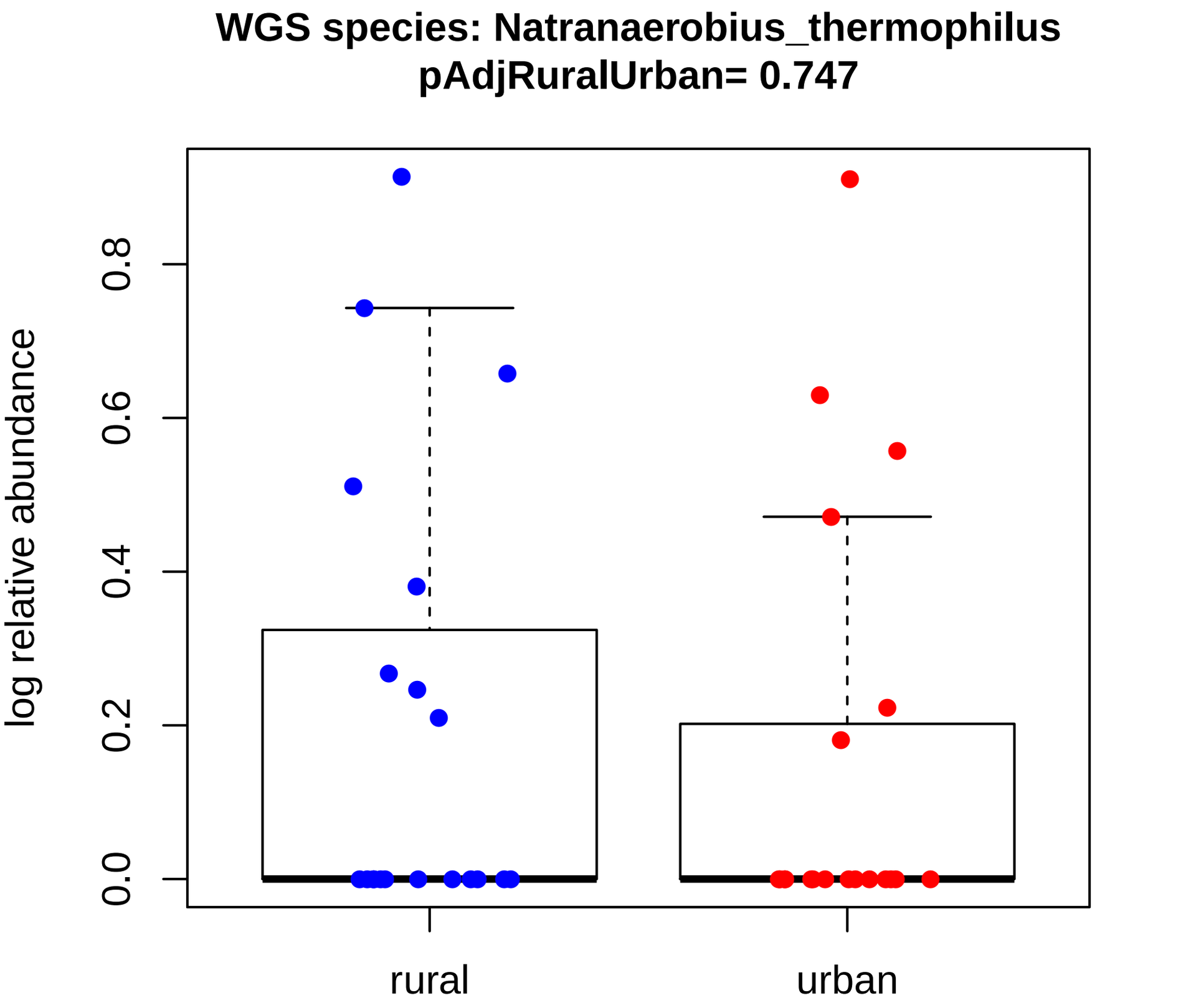

WGS species: Bifidobacterium_animalis
pAdjRuralUrban= 0.743
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

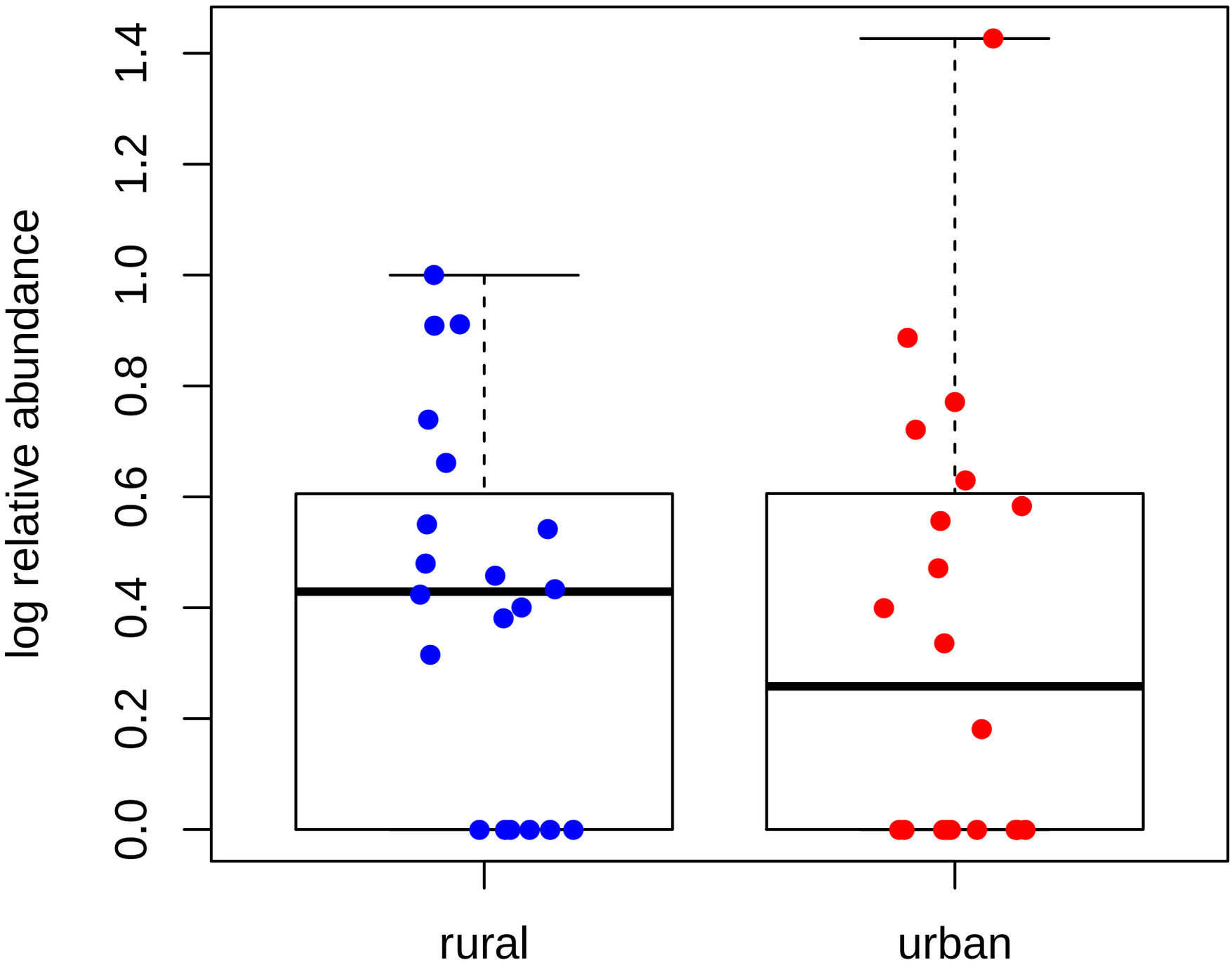

WGS species: Elusimicrobium_minutum
pAdjRuralUrban= 0.744
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

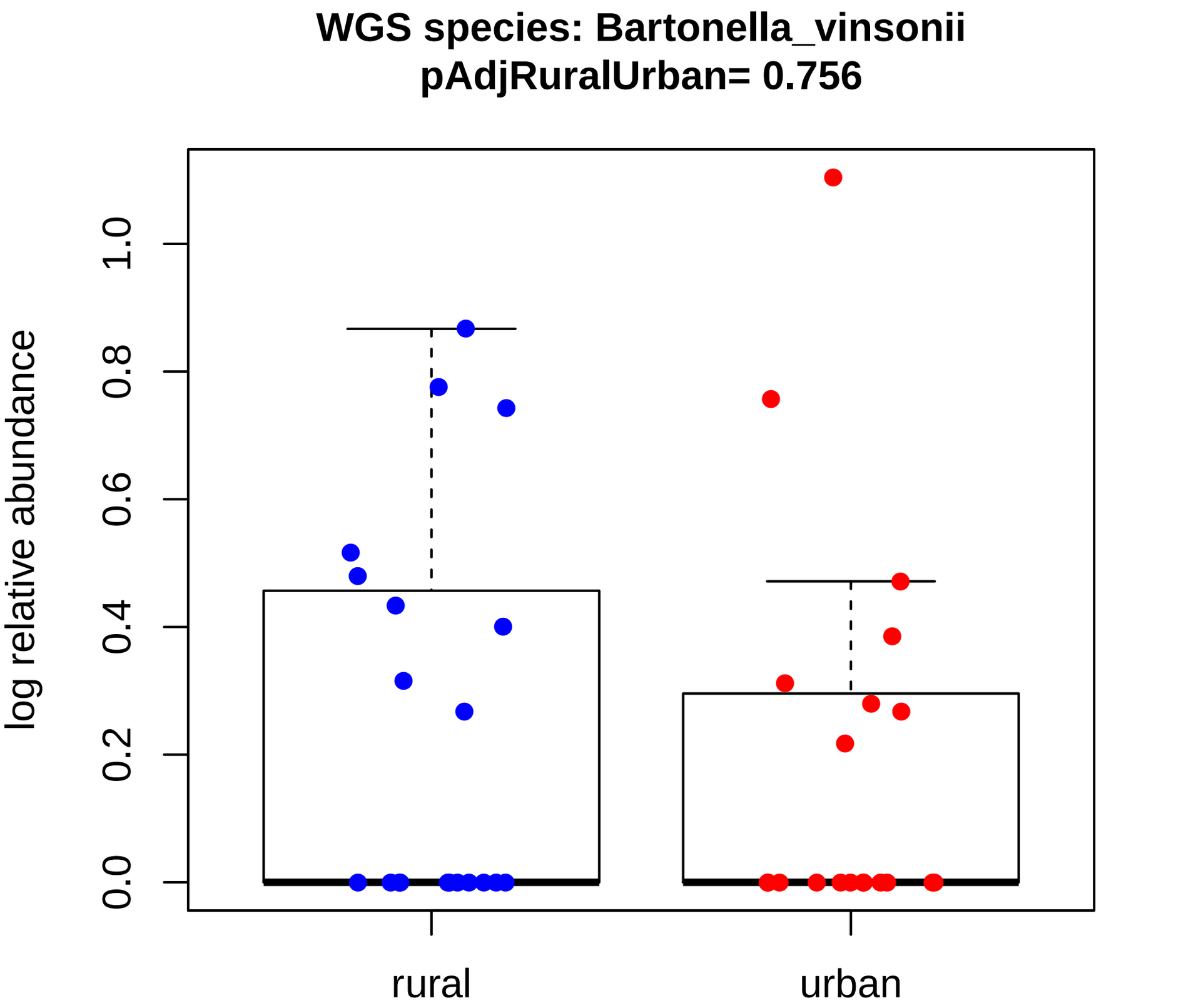

WGS species: Nocardia_brasiliensis
pAdjRuralUrban= 0.744
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

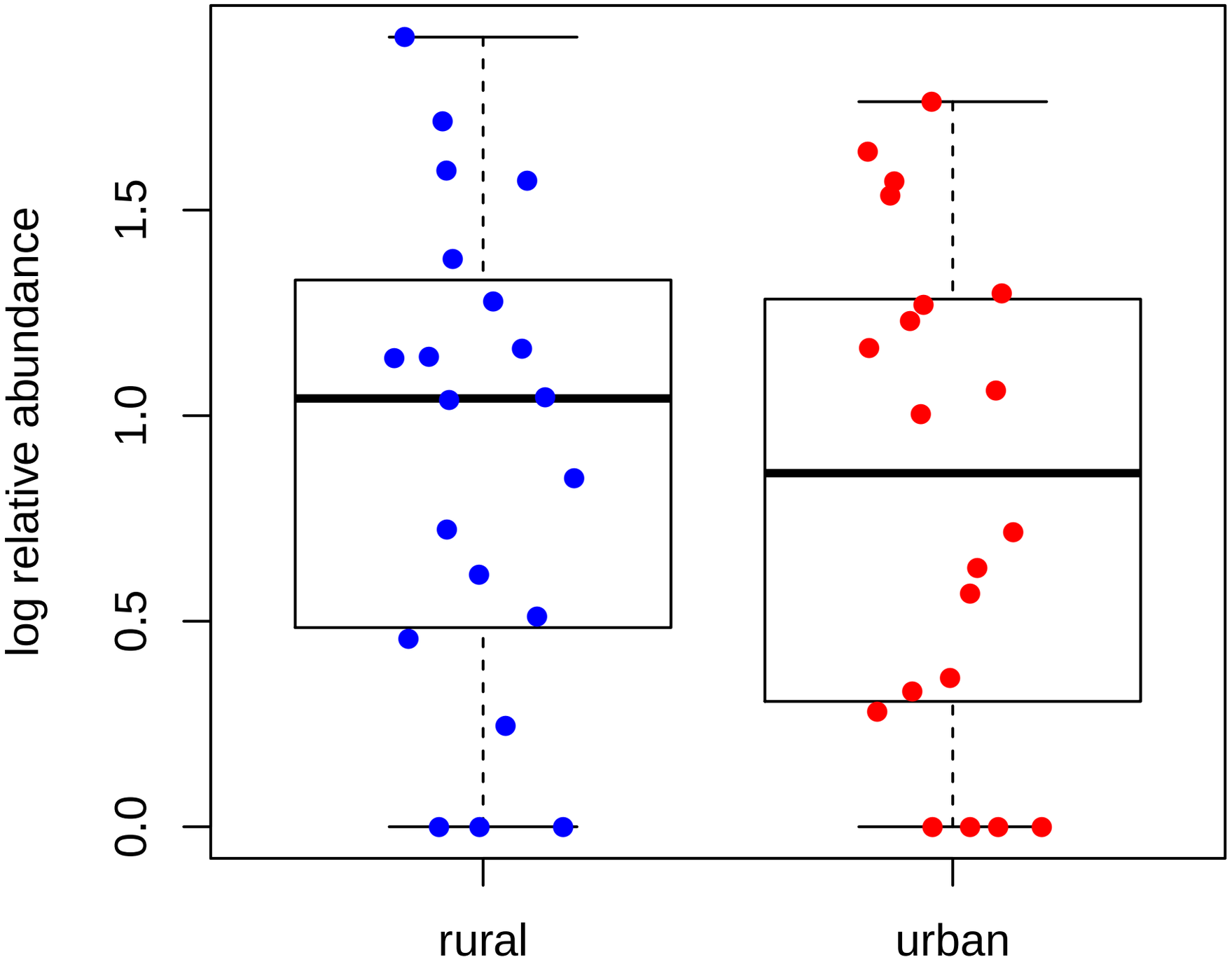

WGS species: Cyanobacterium_aponinum
pAdjRuralUrban= 0.744
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

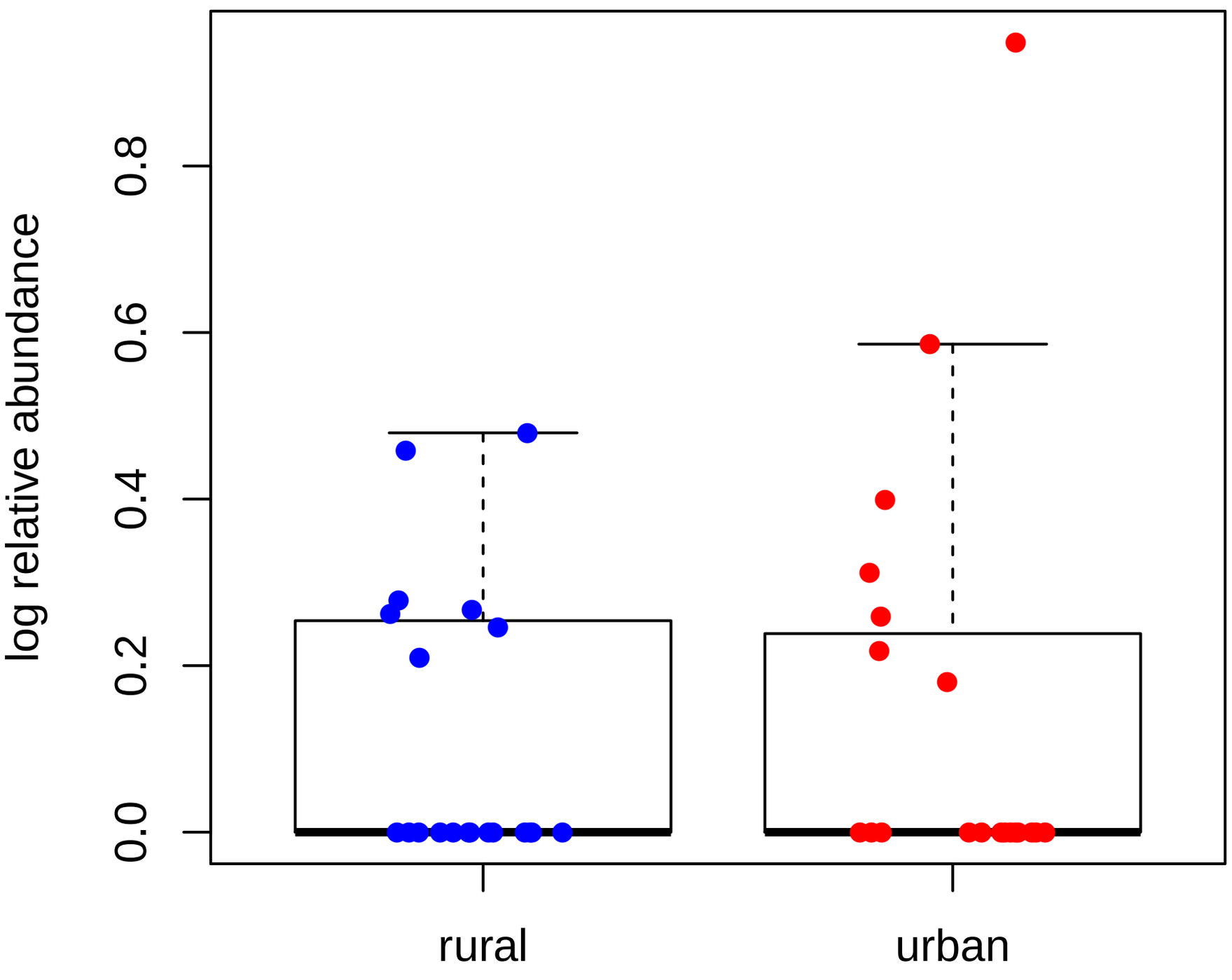

WGS species: Candidatus_Puniceispirillum_marinum
pAdjRuralUrban= 0.745
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

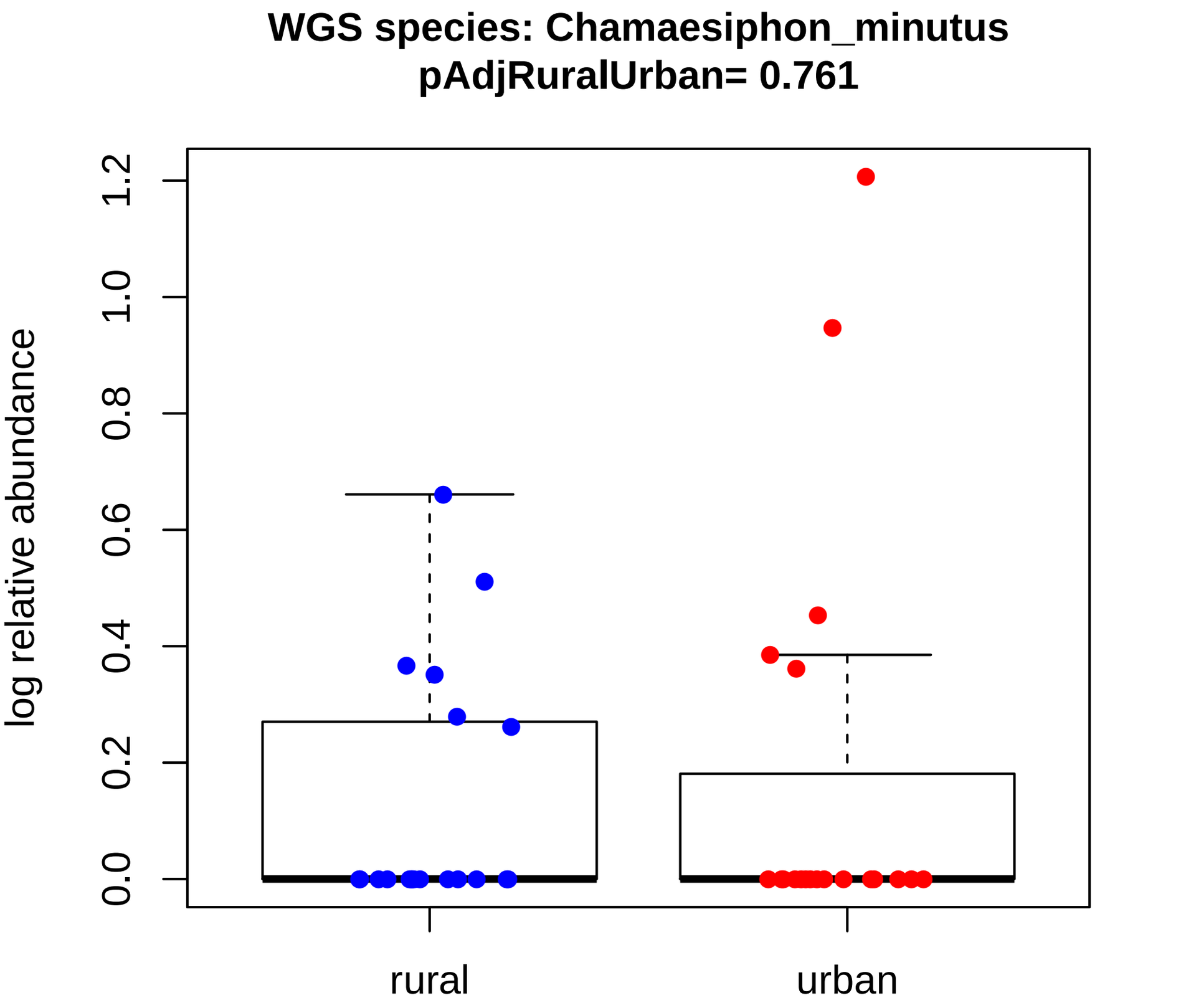

WGS species: Natranaerobius_thermophilus
pAdjRuralUrban= 0.747
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

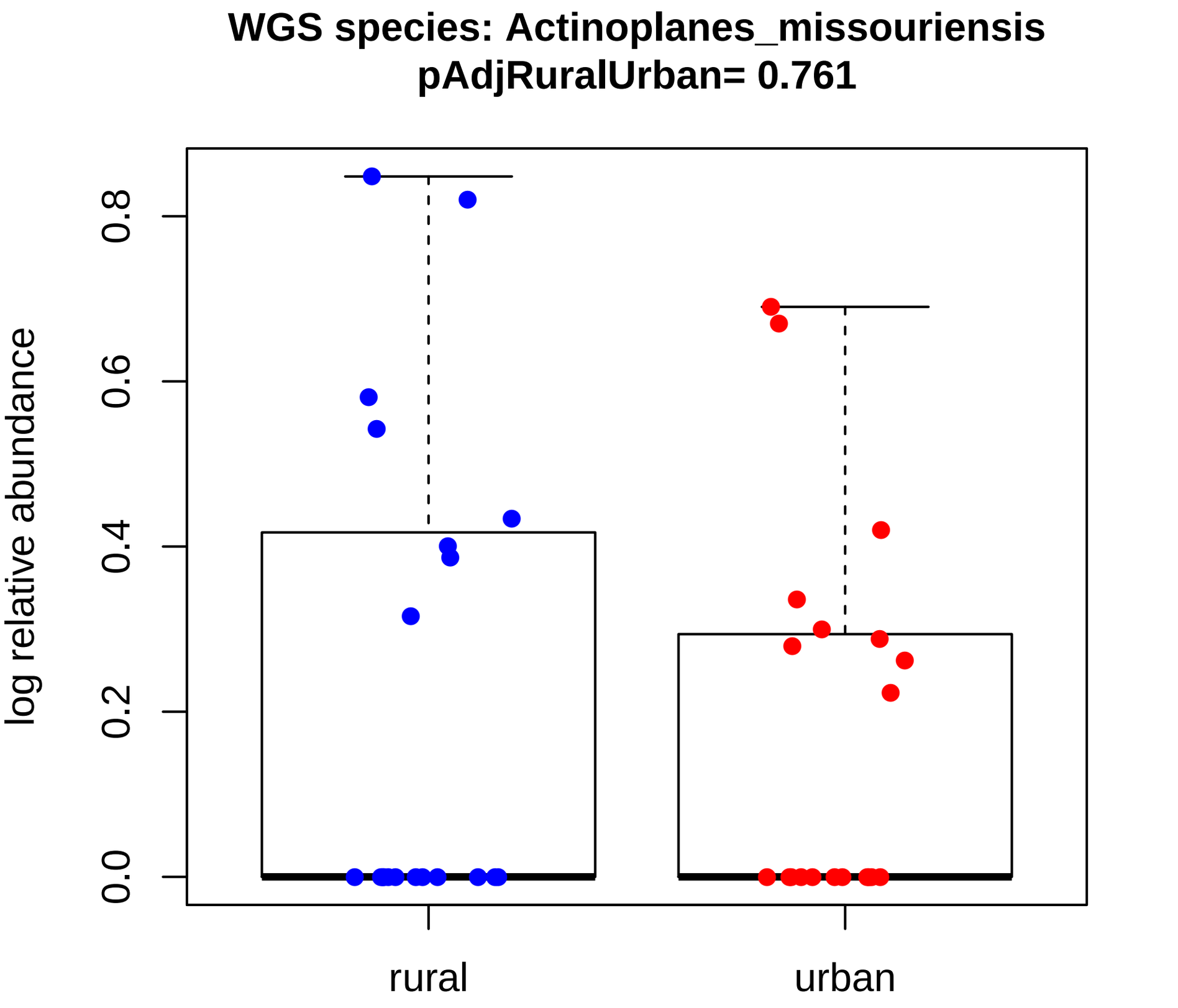

WGS species: Mycoplasma_penetrans
pAdjRuralUrban= 0.748
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

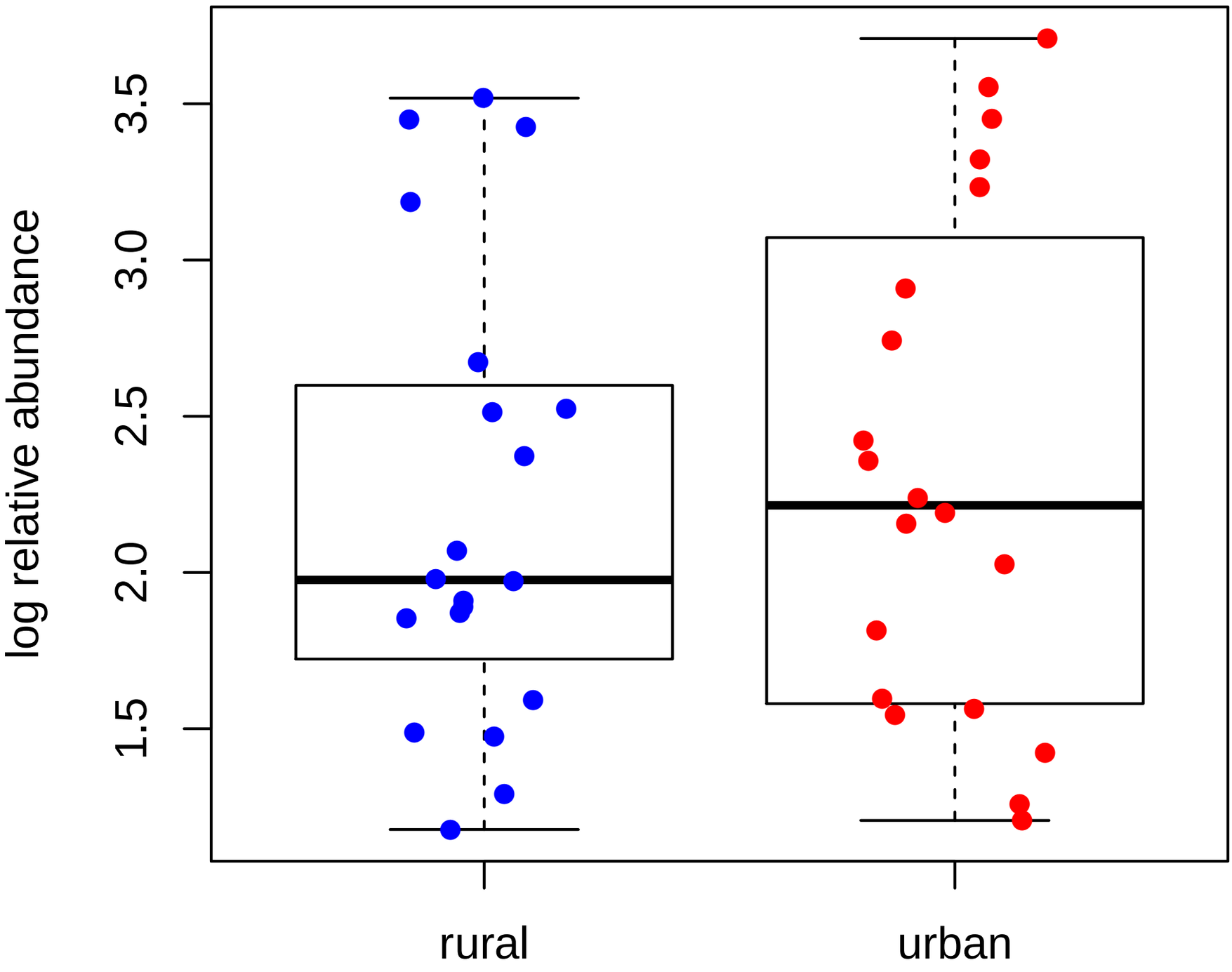

WGS species: Bartonella_vinsonii
pAdjRuralUrban= 0.756
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

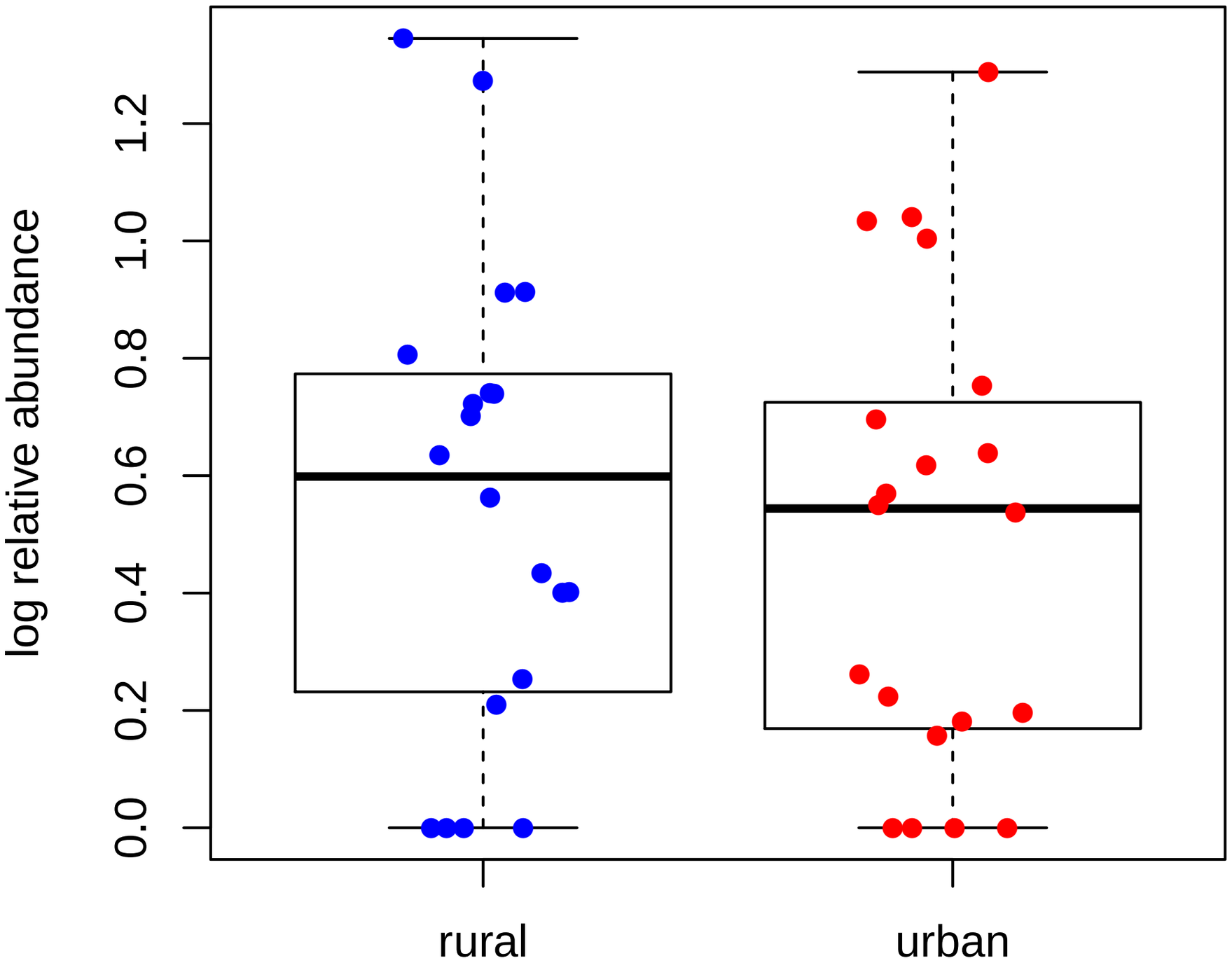

WGS species: Oenococcus_oeni
pAdjRuralUrban= 0.757
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

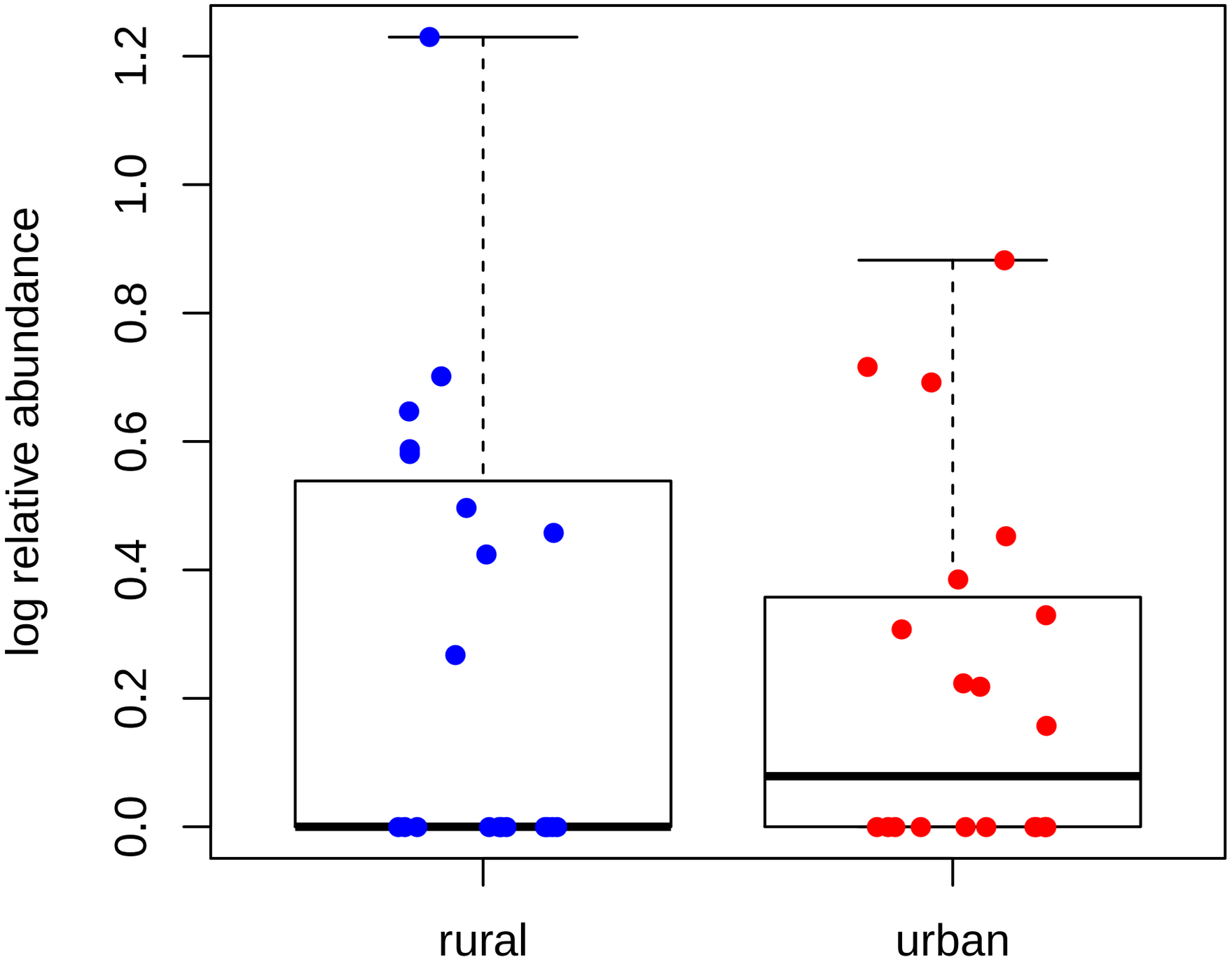

WGS species: Mycoplasma_pulmonis
pAdjRuralUrban= 0.759
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

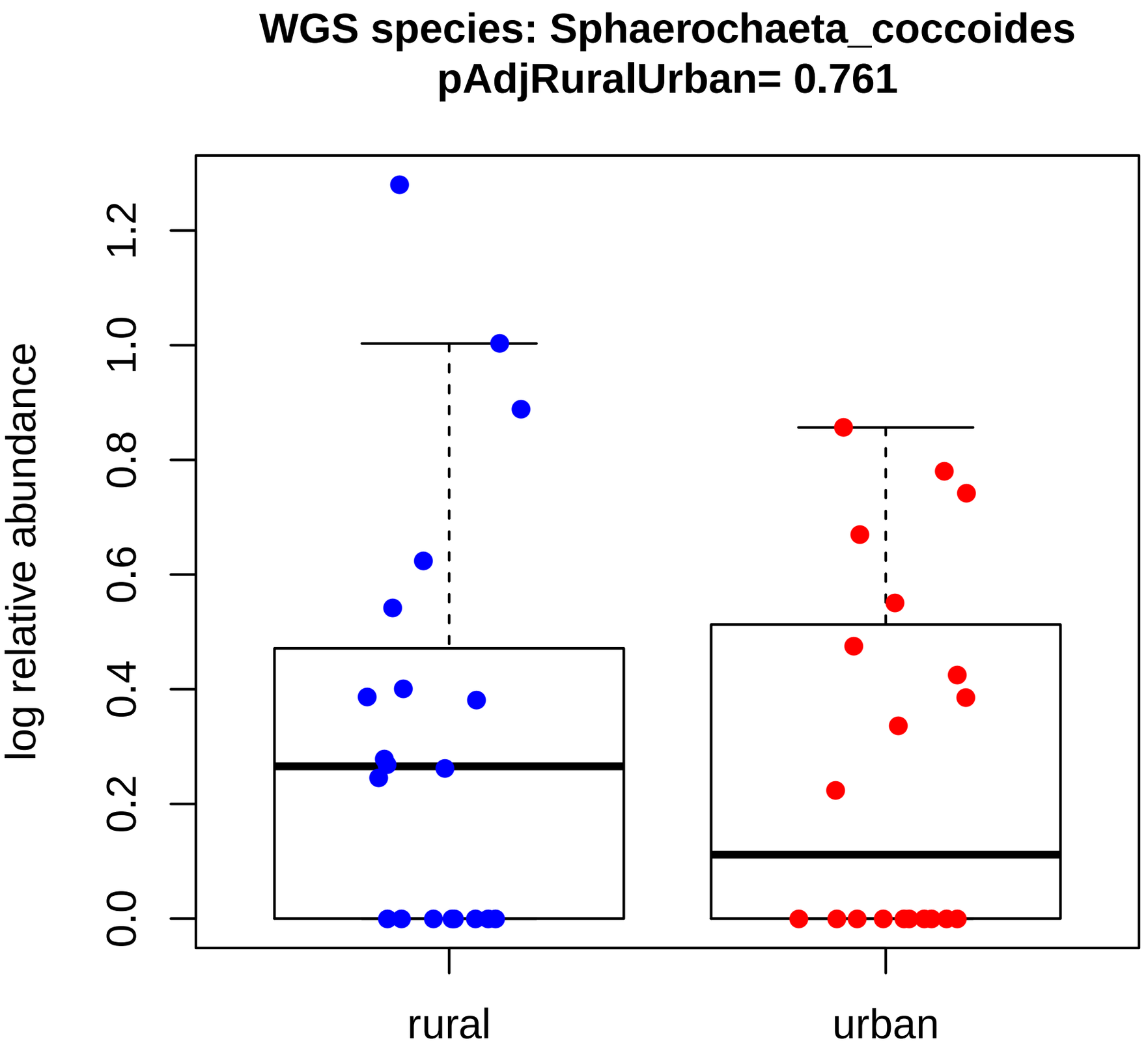

WGS species: Chamaesiphon_minutus
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

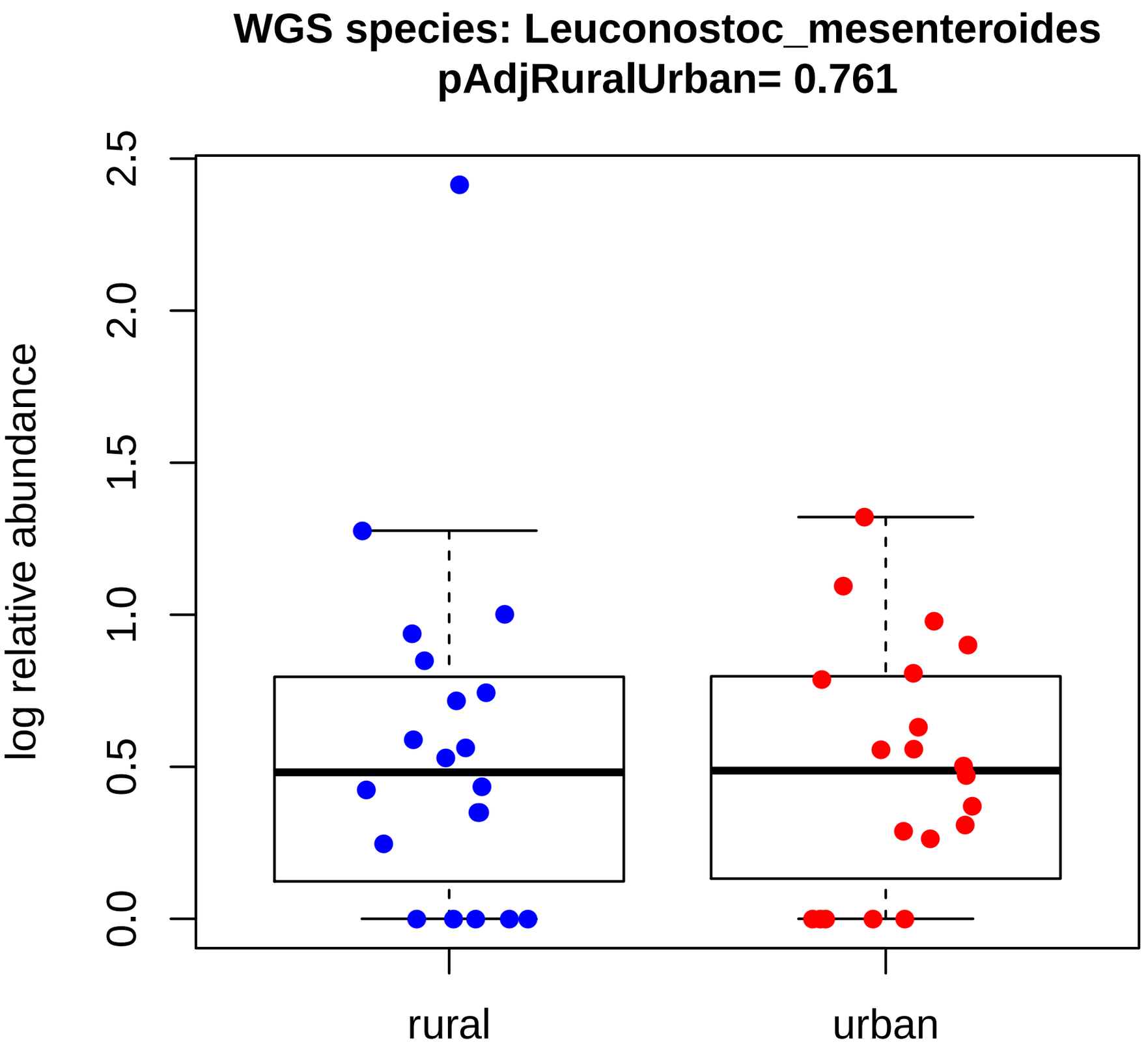

WGS species: Actinoplanes_missouriensis
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

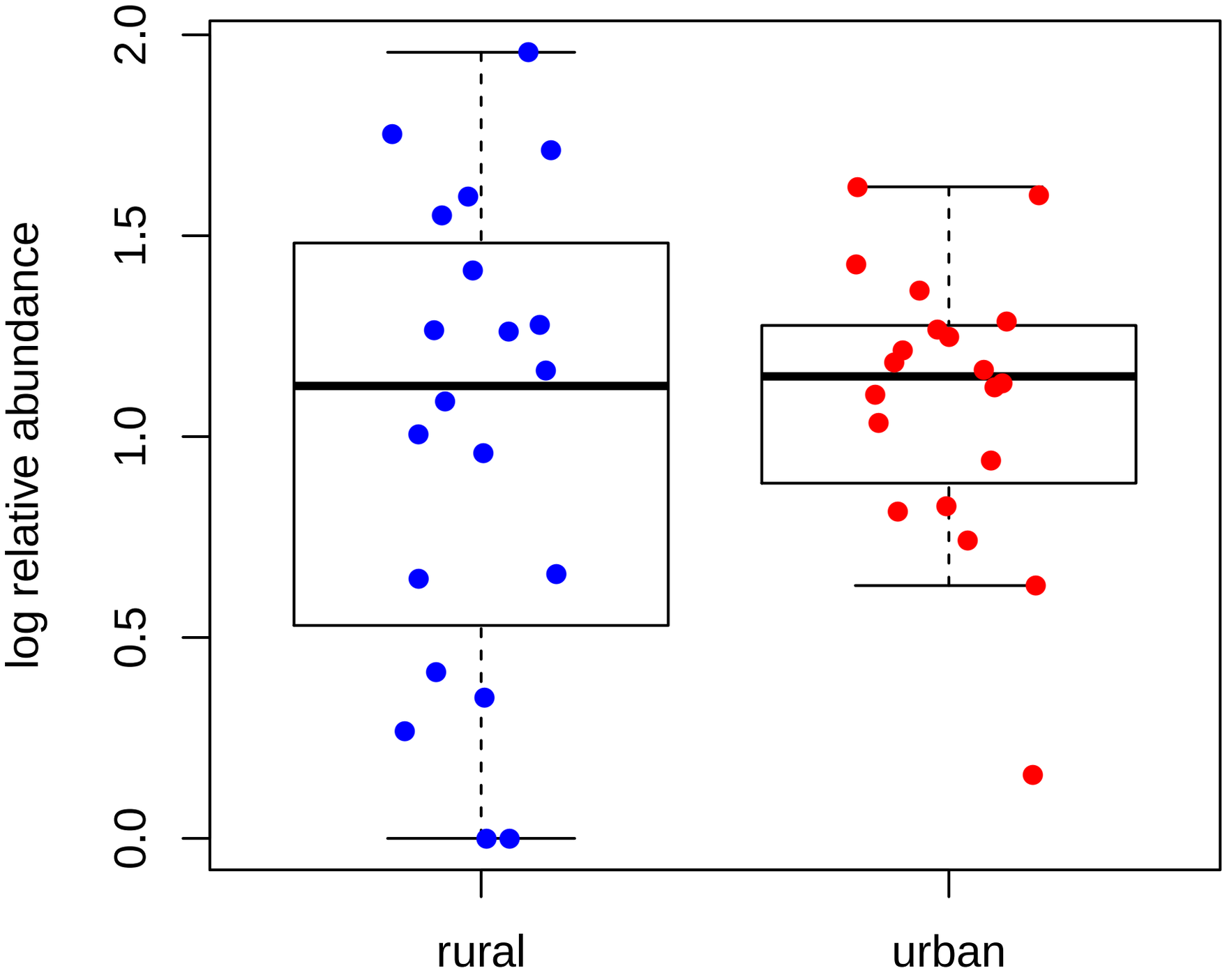

WGS species: Salmonella_enterica
pAdjRuralUrban= 0.761
log relative abundance
1.5
2.0
2.5
3.0
3.5
rural
urban

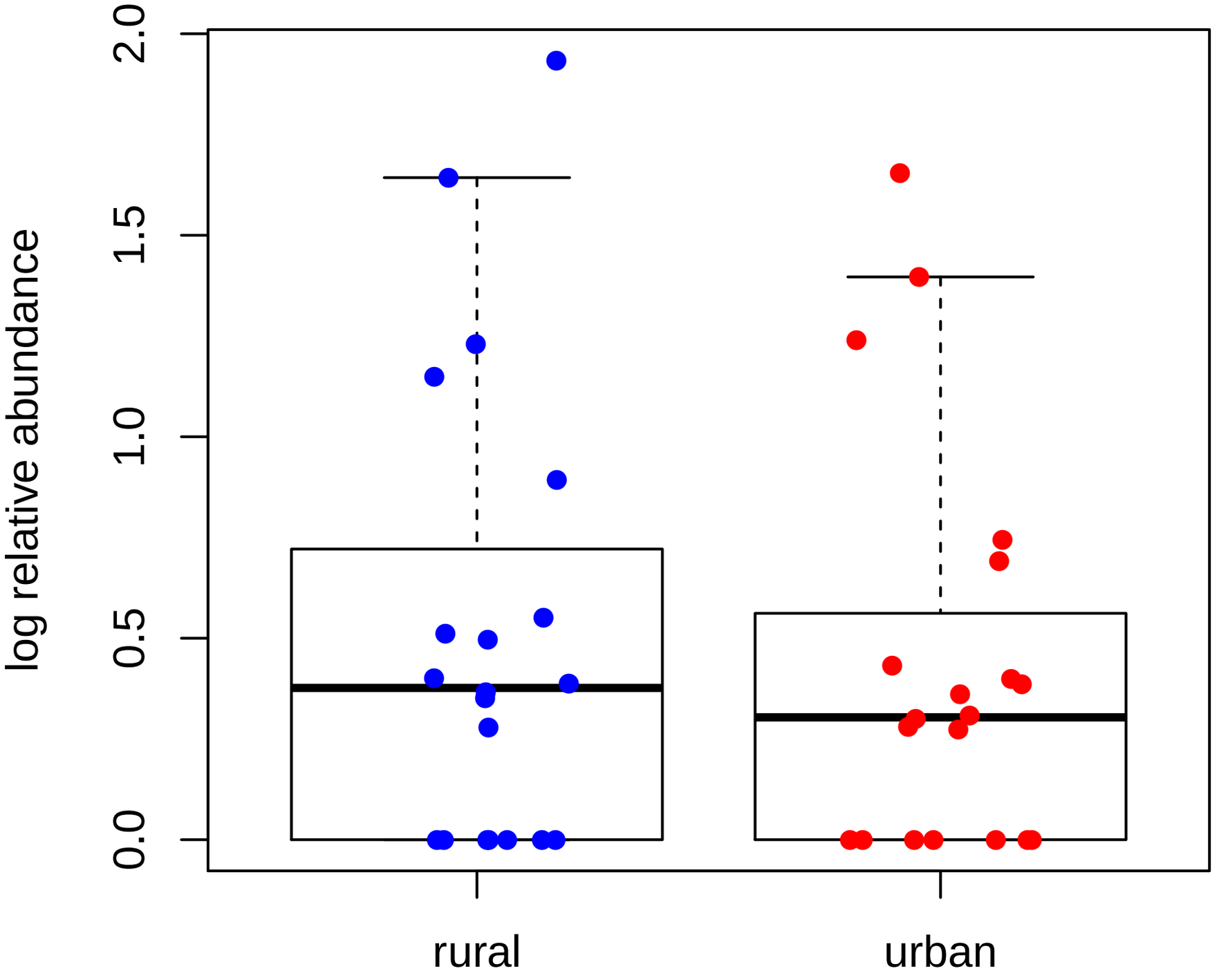

WGS species: Thiocystis_violascens
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

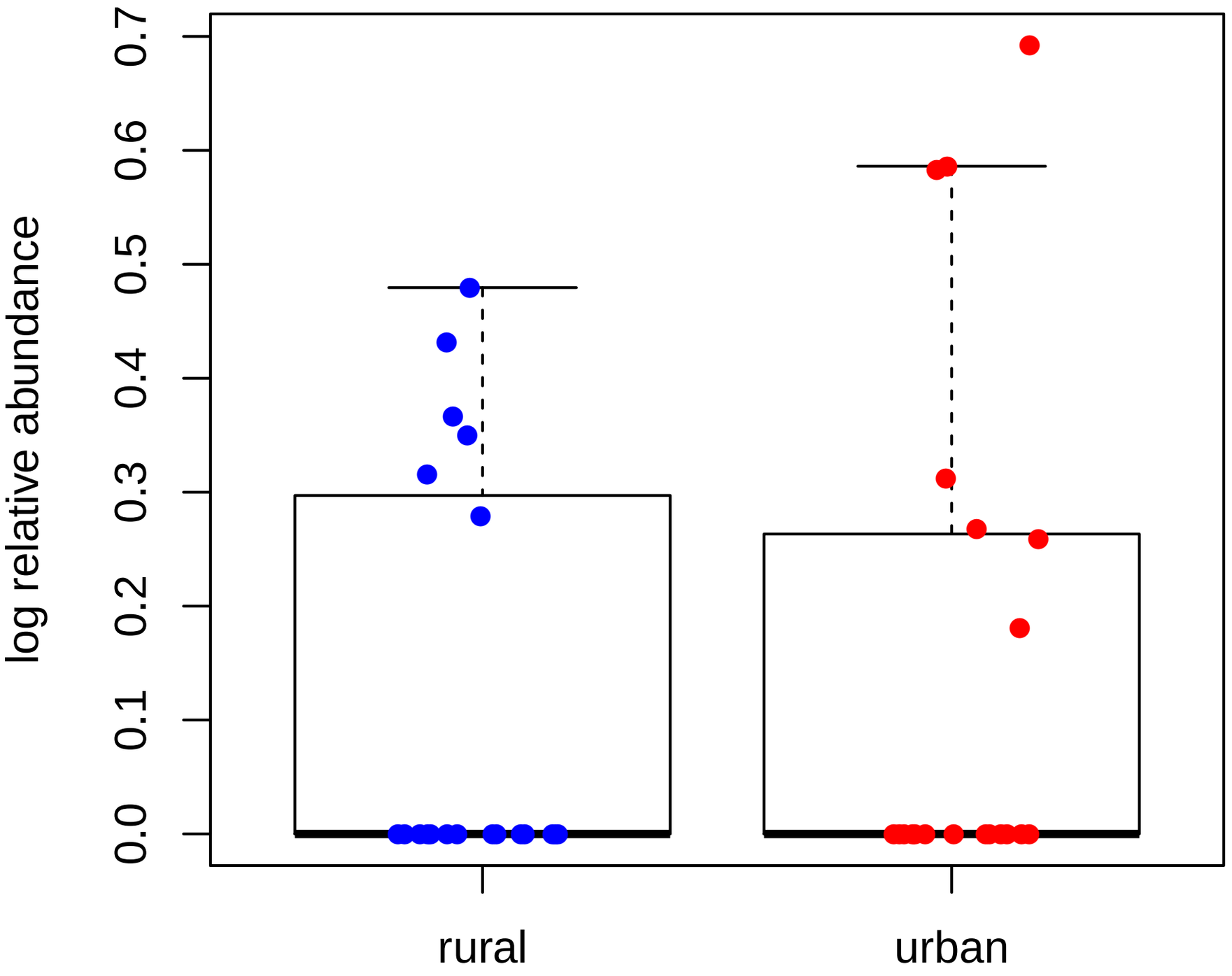

WGS species: Corynebacterium_ulcerans
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

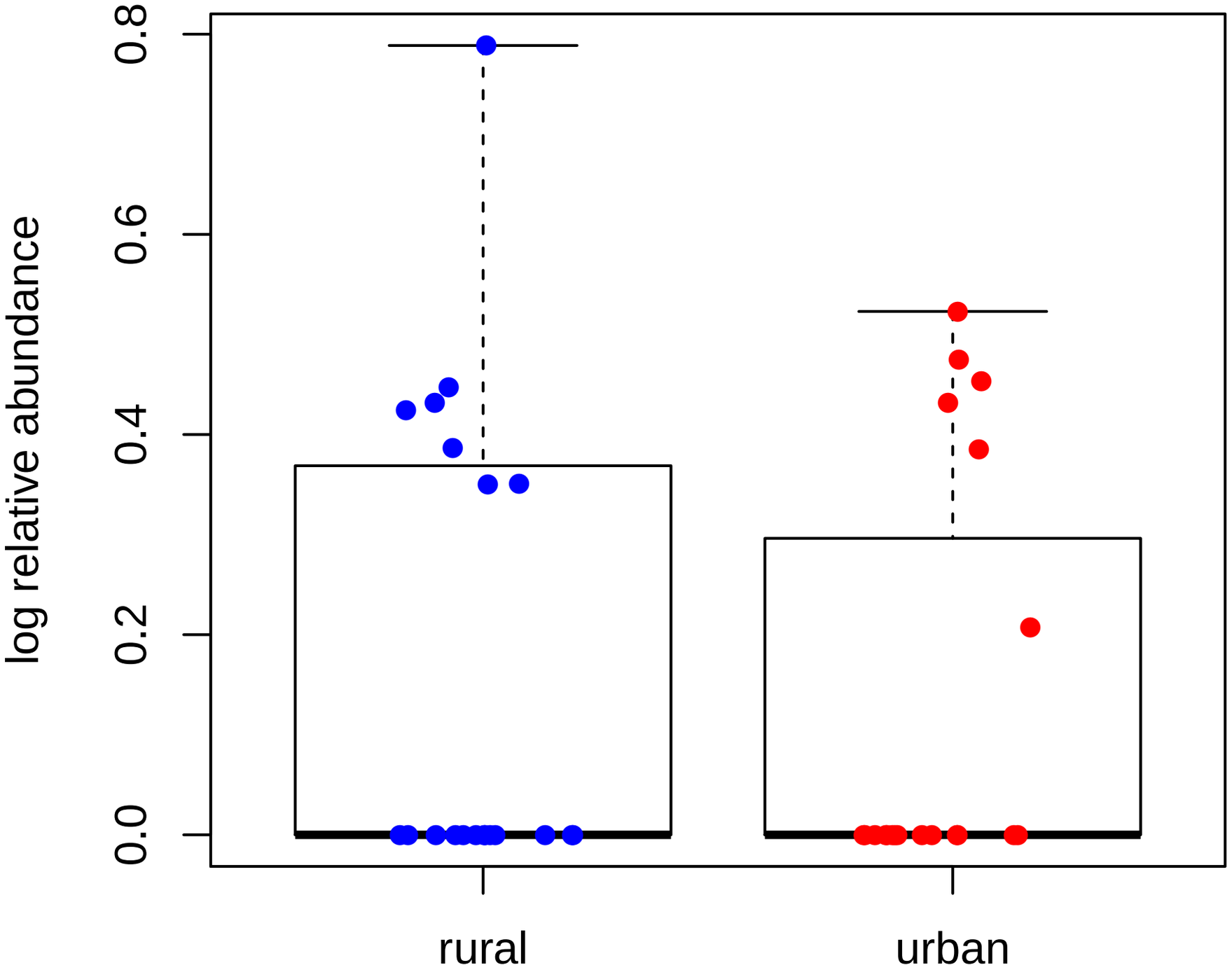

WGS species: Sphaerochaeta_coccoides
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

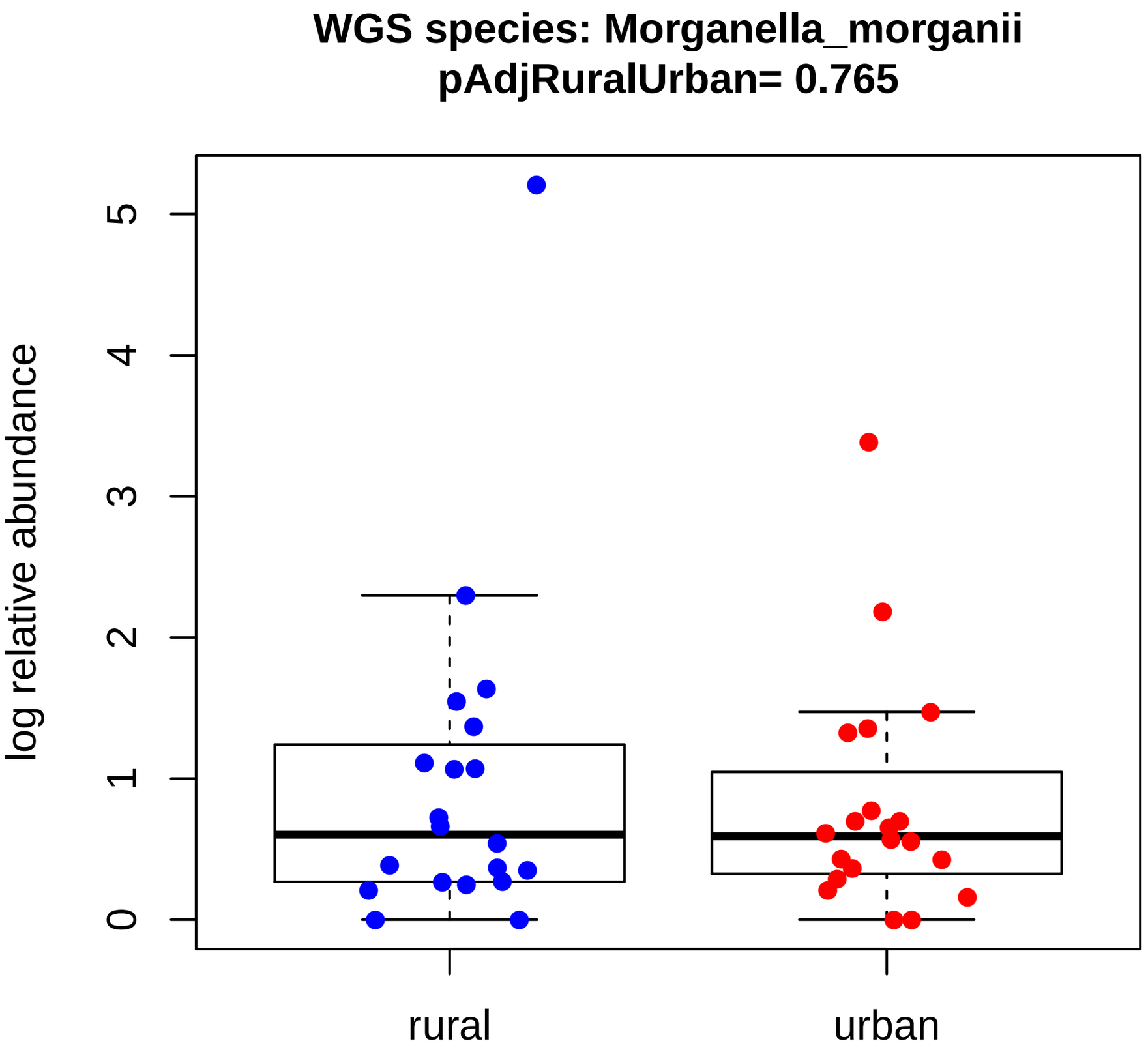

WGS species: Leuconostoc_mesenteroides
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

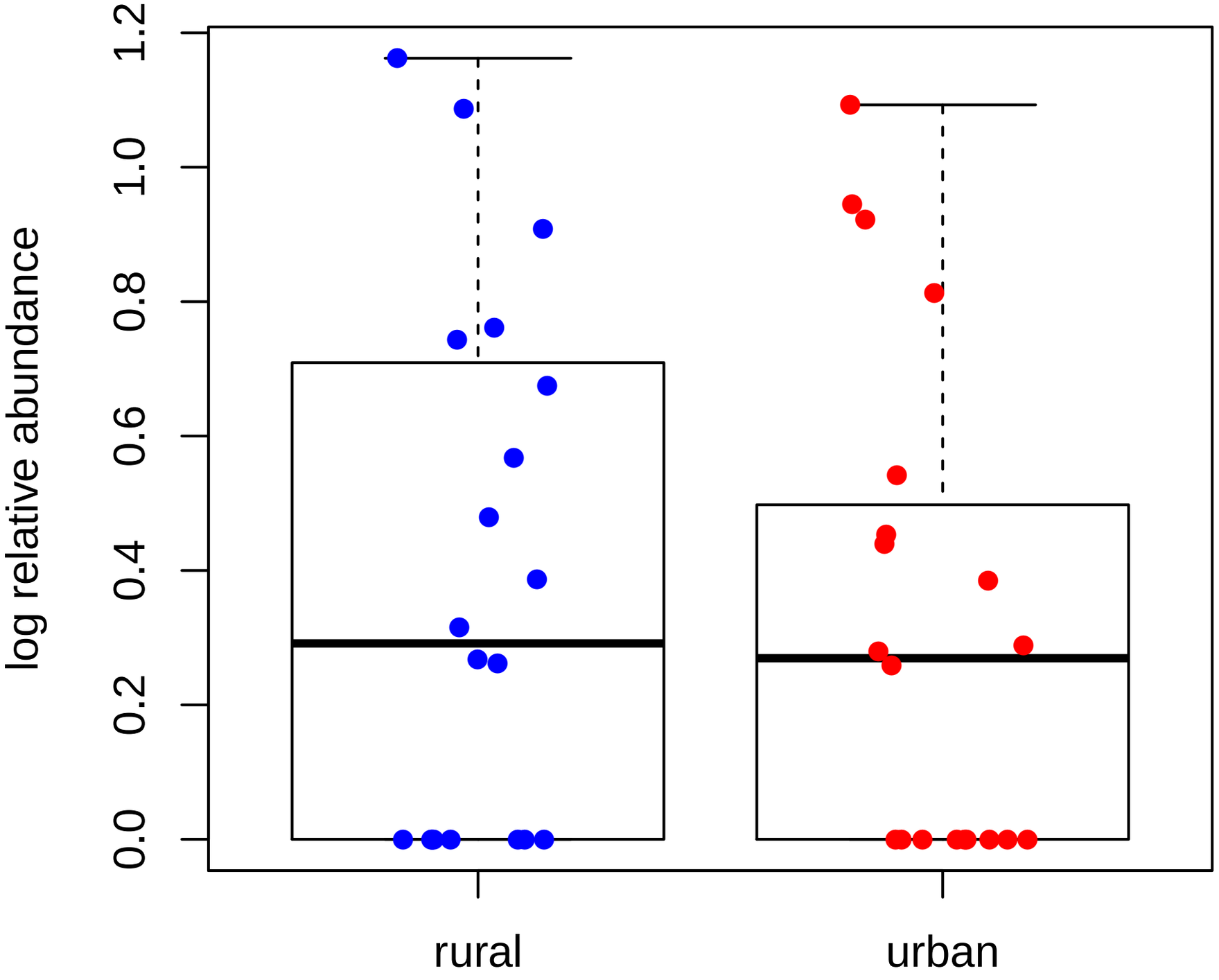

WGS species: Polaribacter_sp._MED152
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

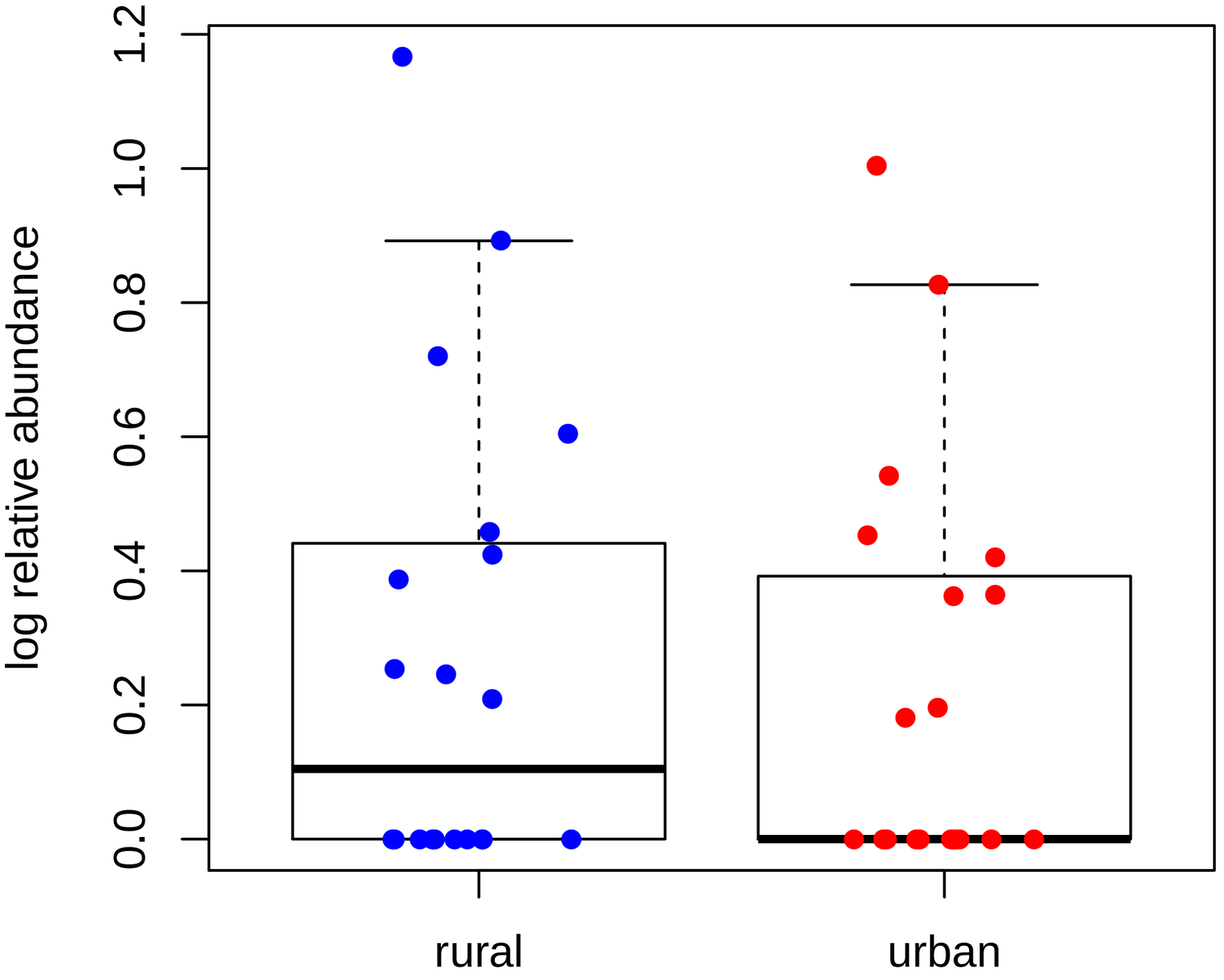

WGS species: Pectobacterium_atrosepticum
pAdjRuralUrban= 0.761
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

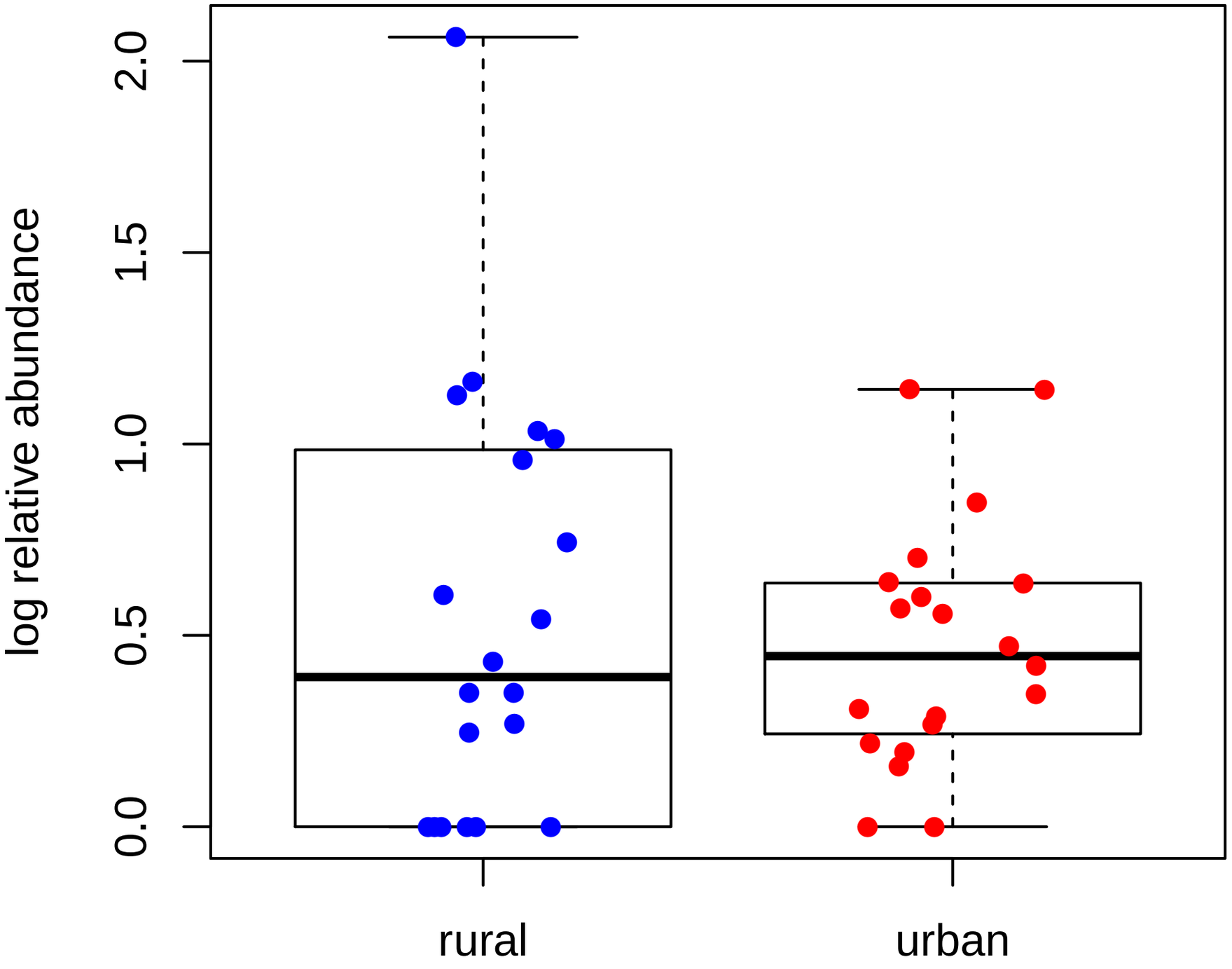

WGS species: Pseudanabaena_sp._PCC_7367
pAdjRuralUrban= 0.762
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

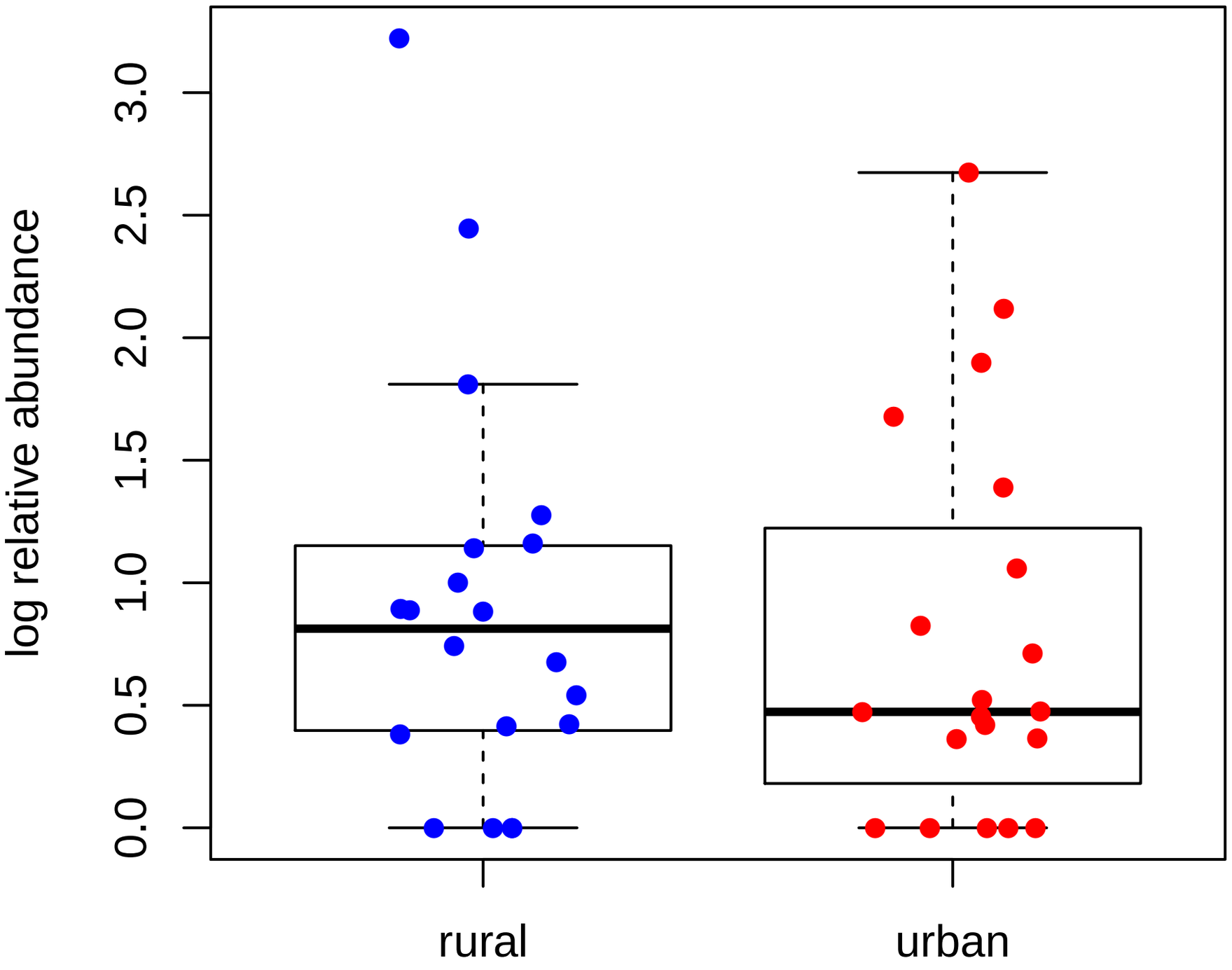

WGS species: Saccharomonospora_viridis
pAdjRuralUrban= 0.762
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

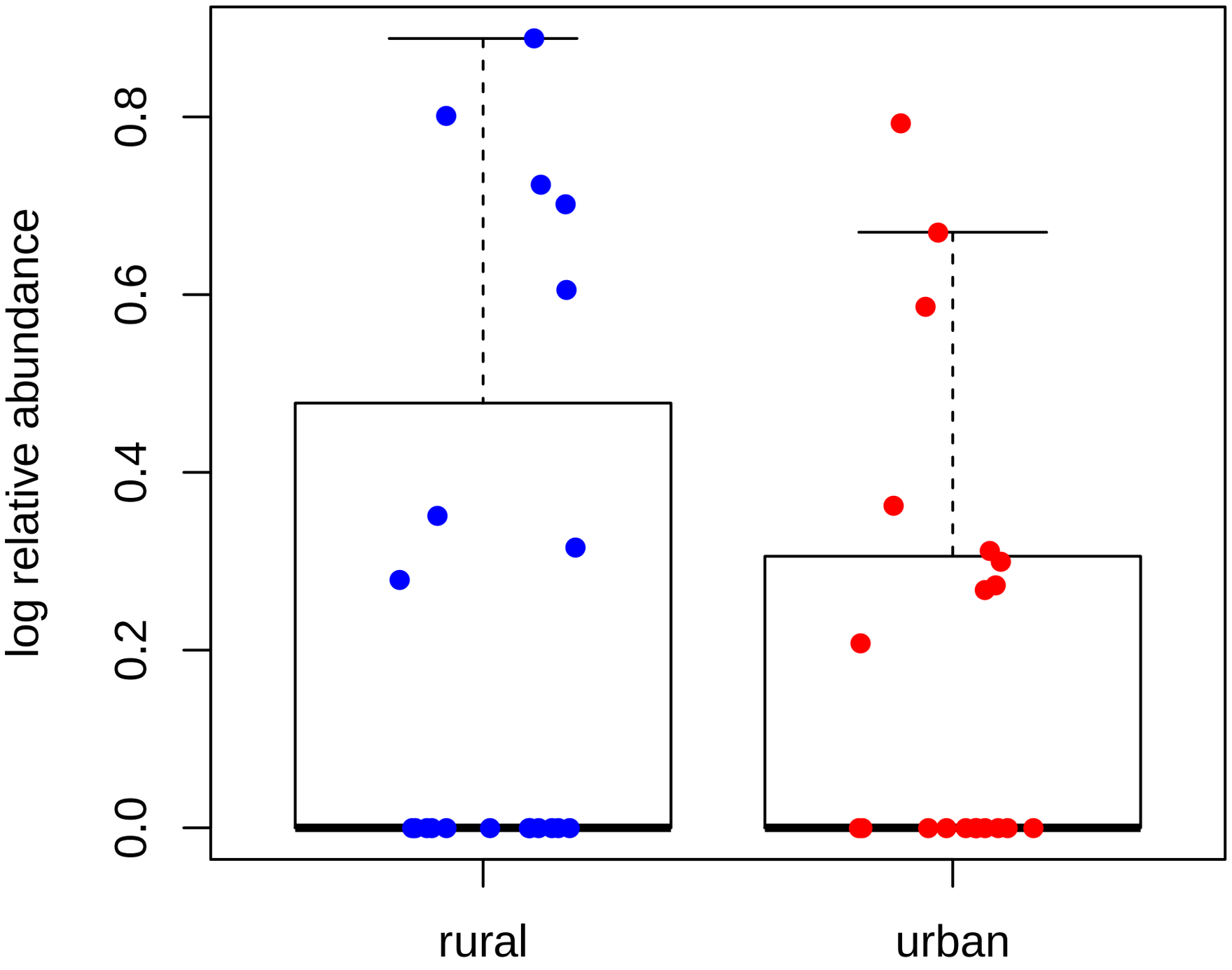

WGS species: Morganella_morganii
pAdjRuralUrban= 0.765
log relative abundance
0
1
2
3
4
5
rural
urban

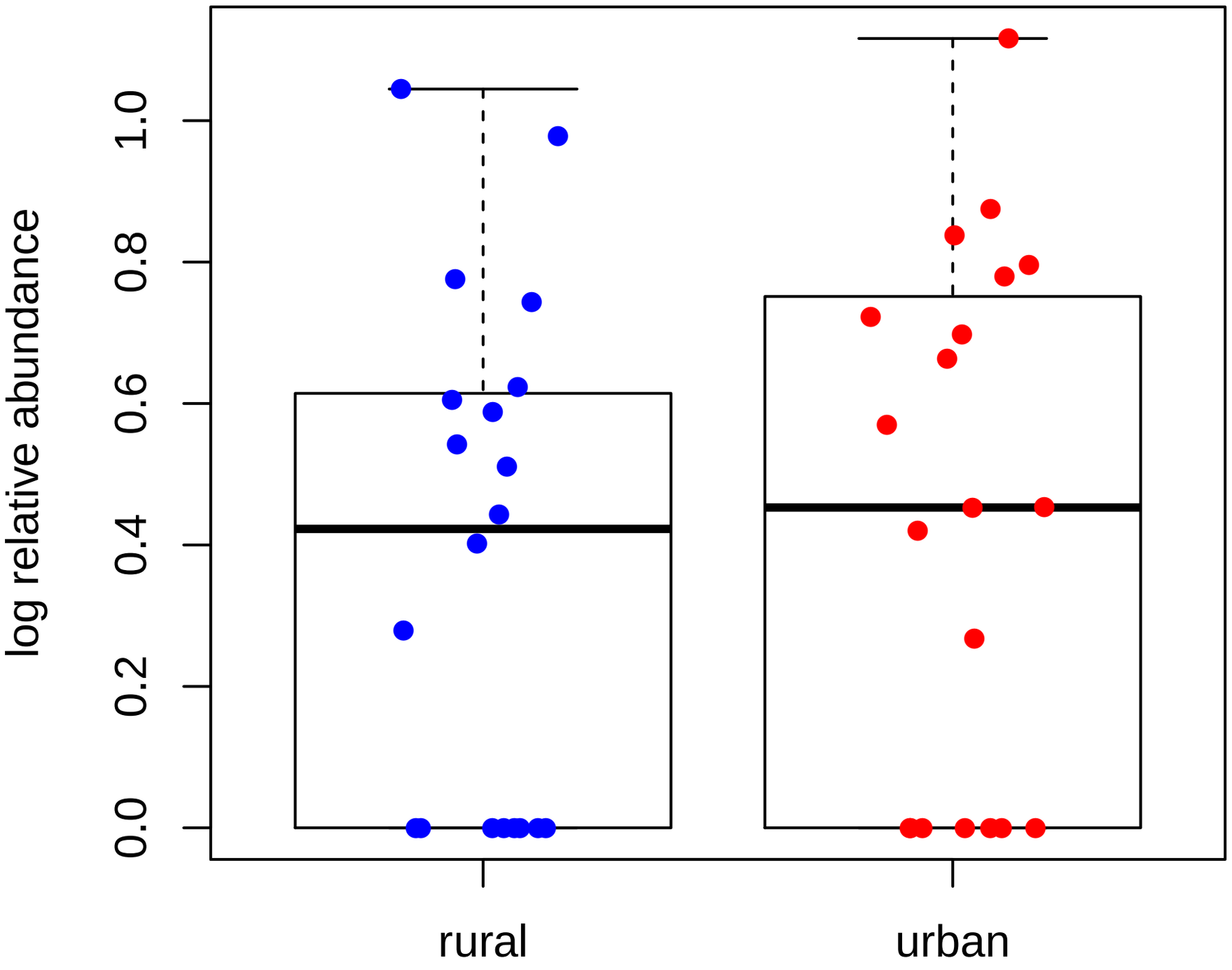

WGS species: Nakamurella_multipartita
pAdjRuralUrban= 0.769
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

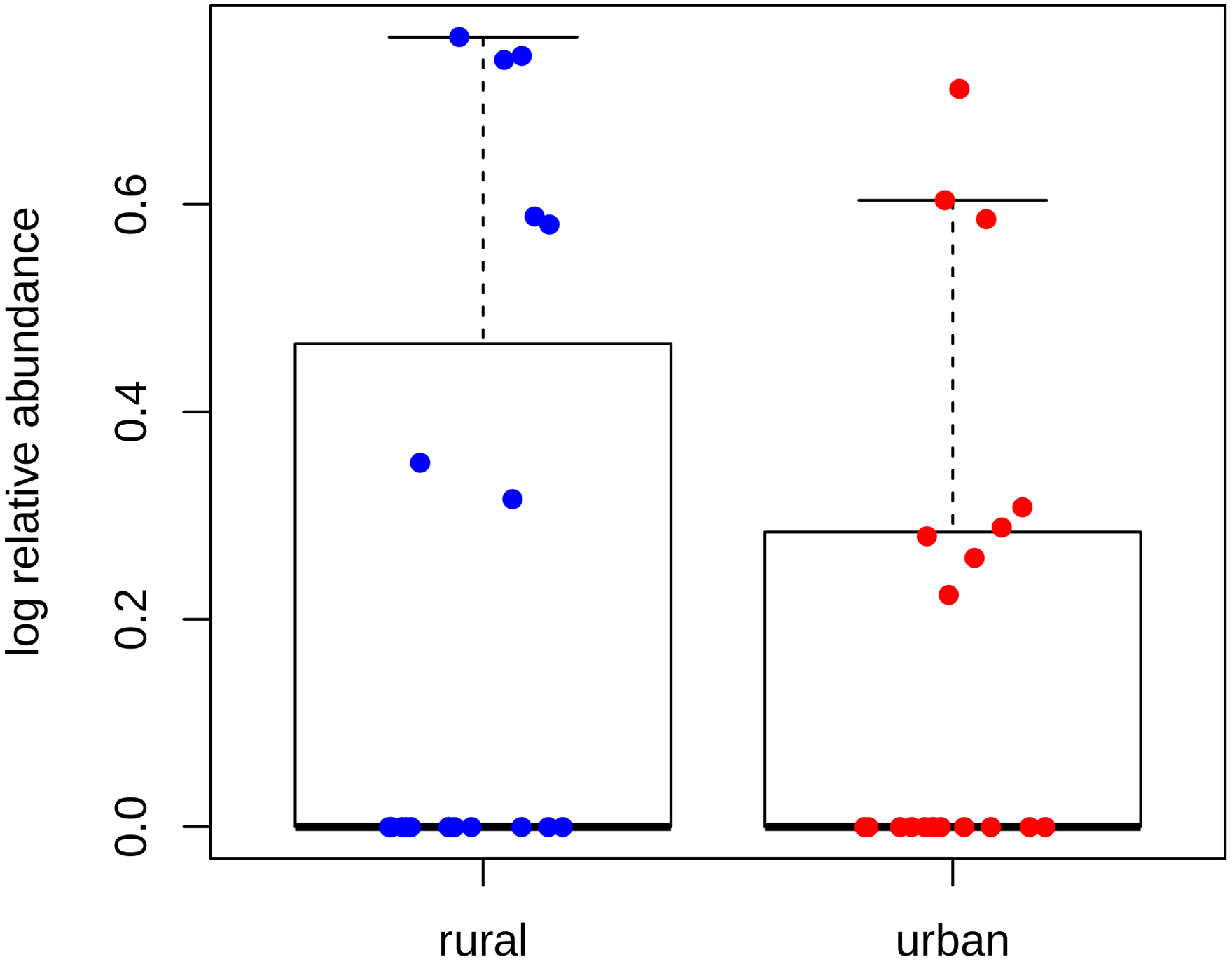

WGS species: Parachlamydia_acanthamoebae
pAdjRuralUrban= 0.772
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

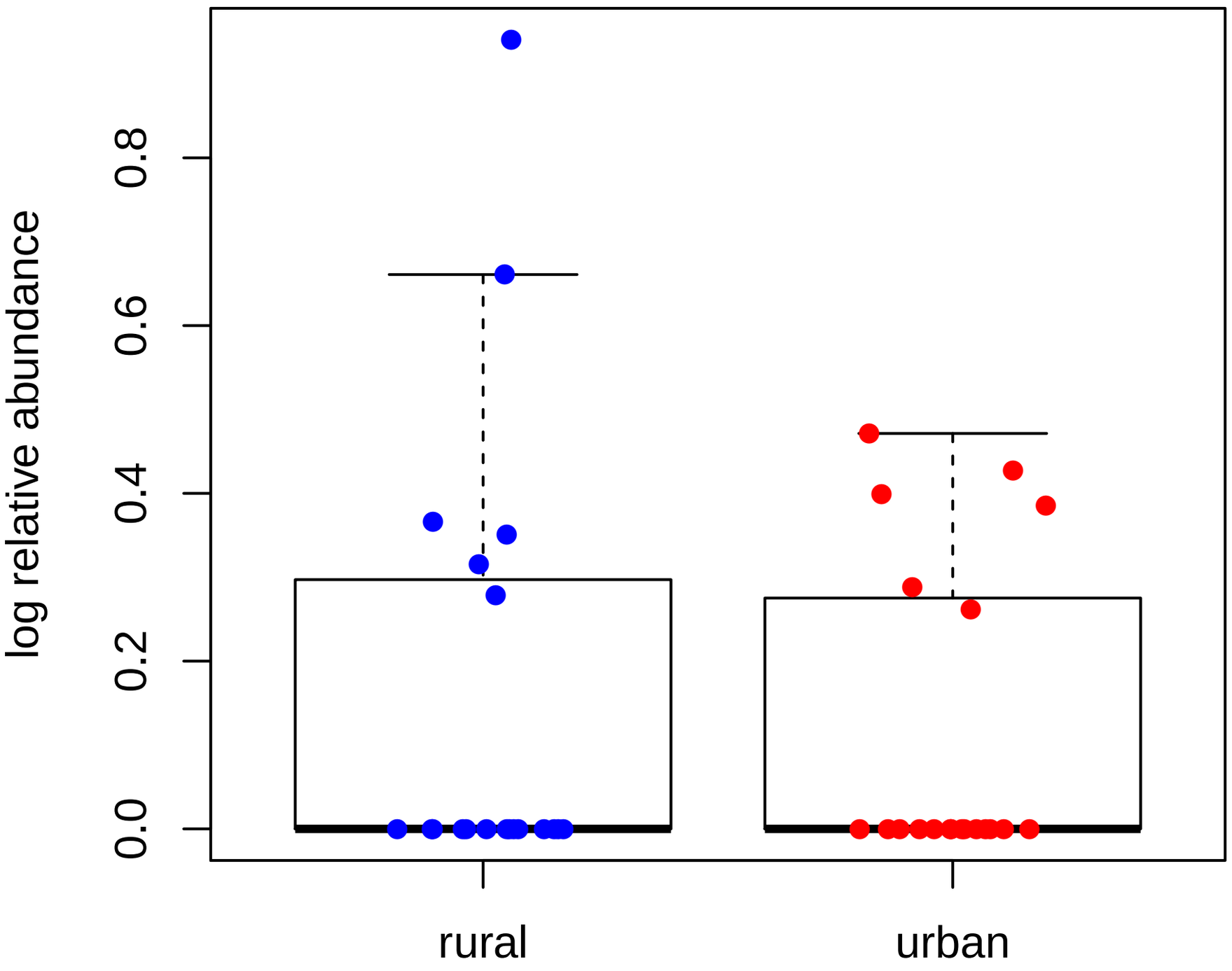

WGS species: Nitratifractor_salsuginis
pAdjRuralUrban= 0.773
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

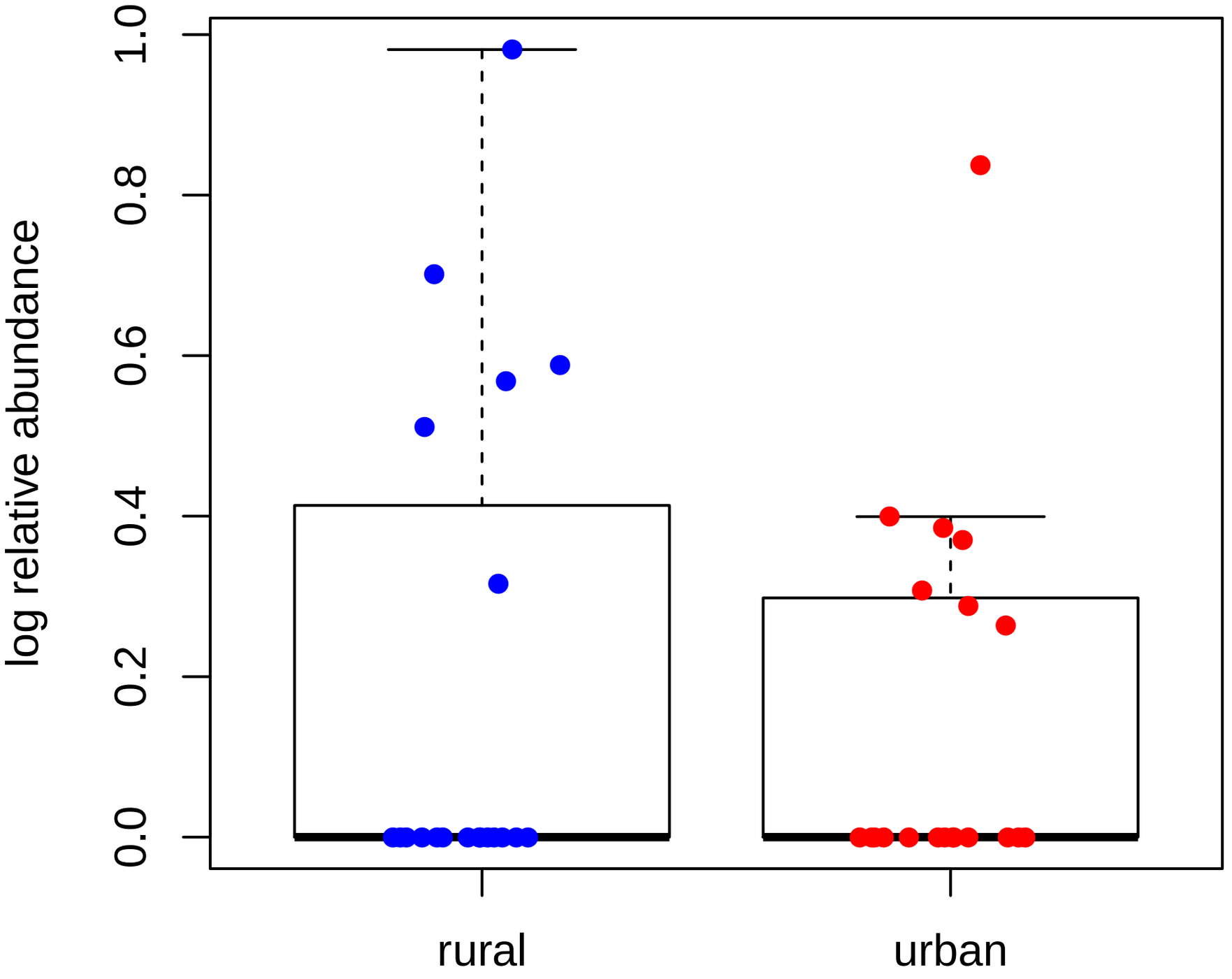

WGS species: Lactobacillus_plantarum
pAdjRuralUrban= 0.774
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

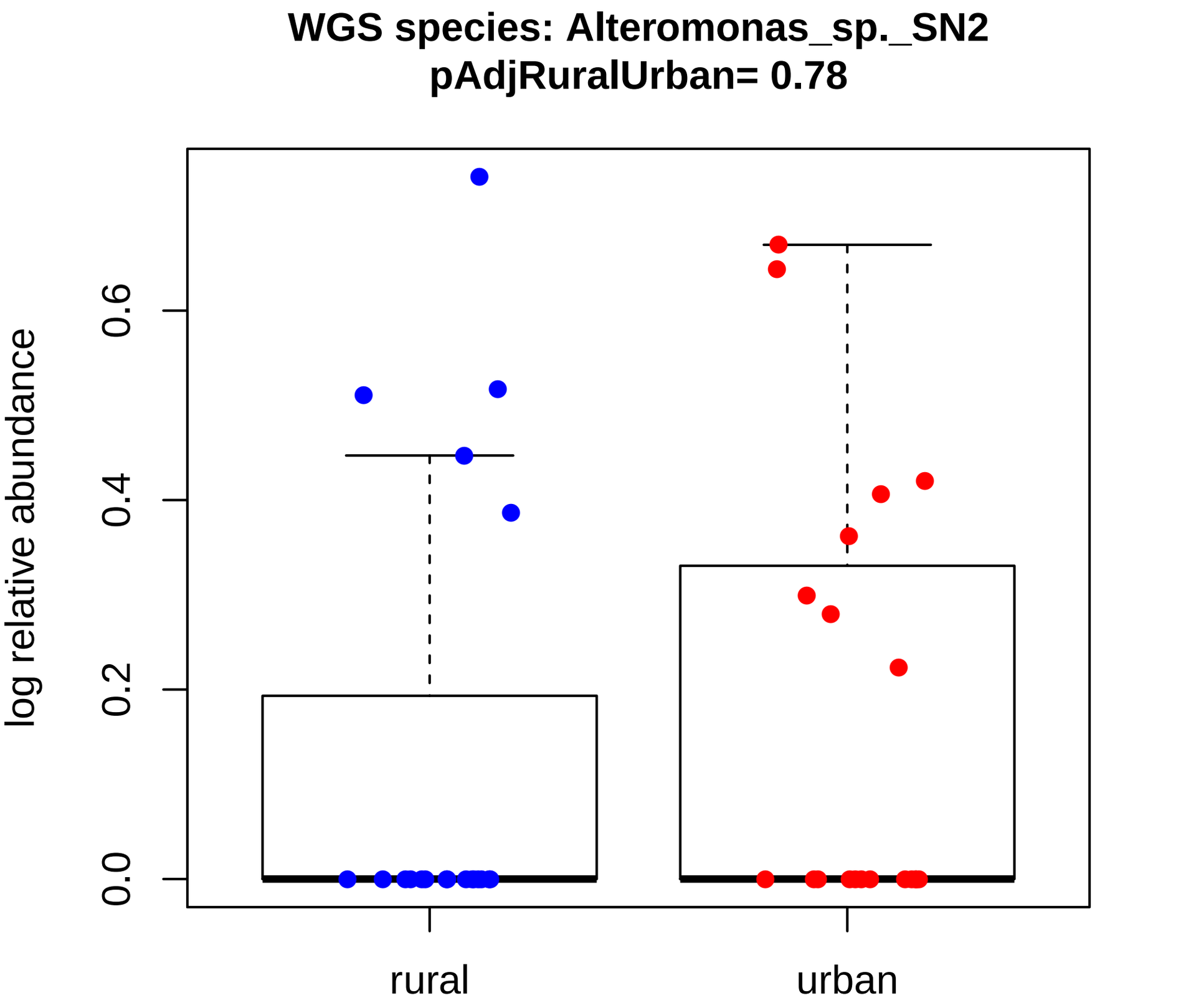

WGS species: Chthonomonas_calidirosea
pAdjRuralUrban= 0.774
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

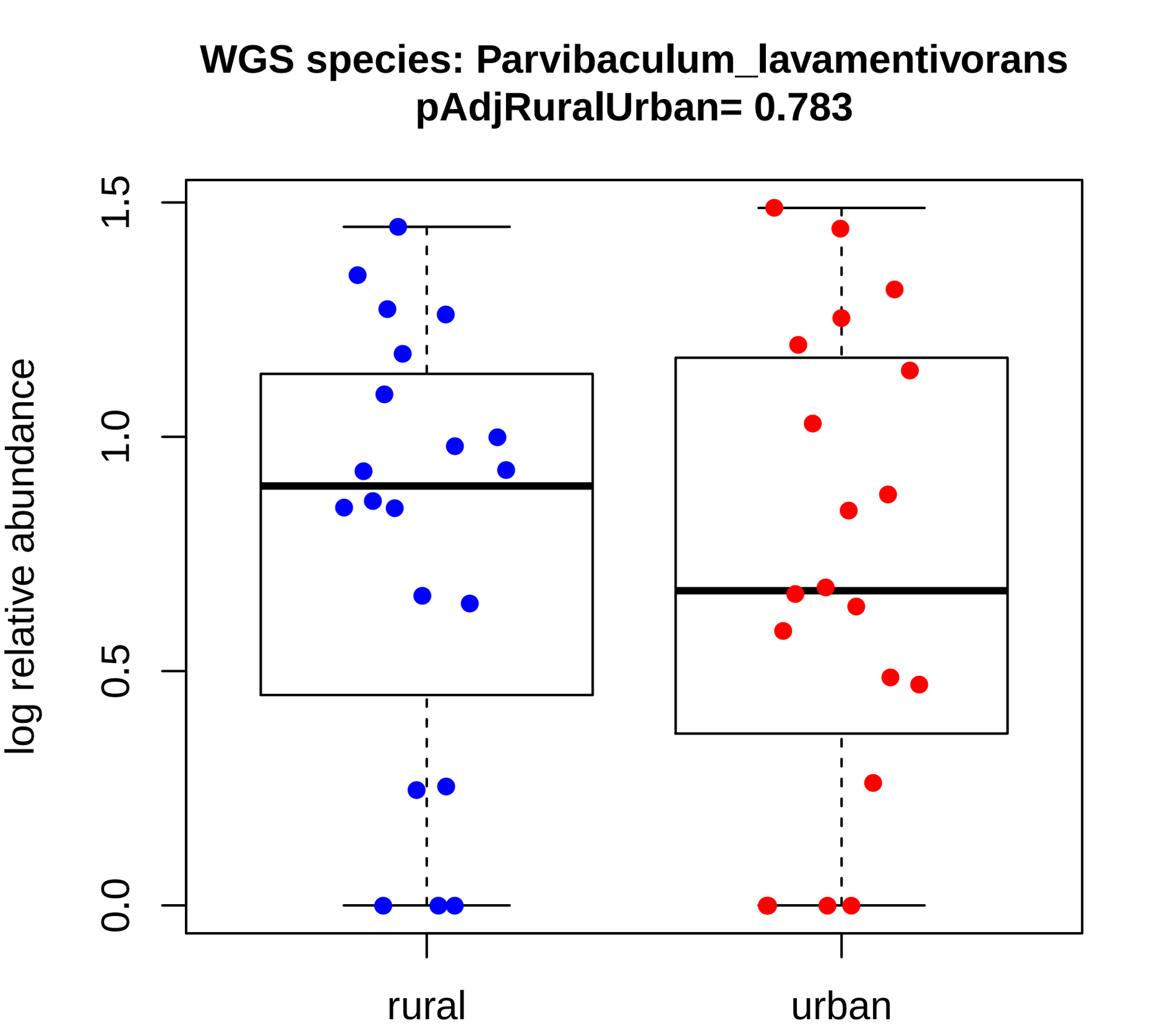

WGS species: Burkholderia_sp._CCGE1003
pAdjRuralUrban= 0.775
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

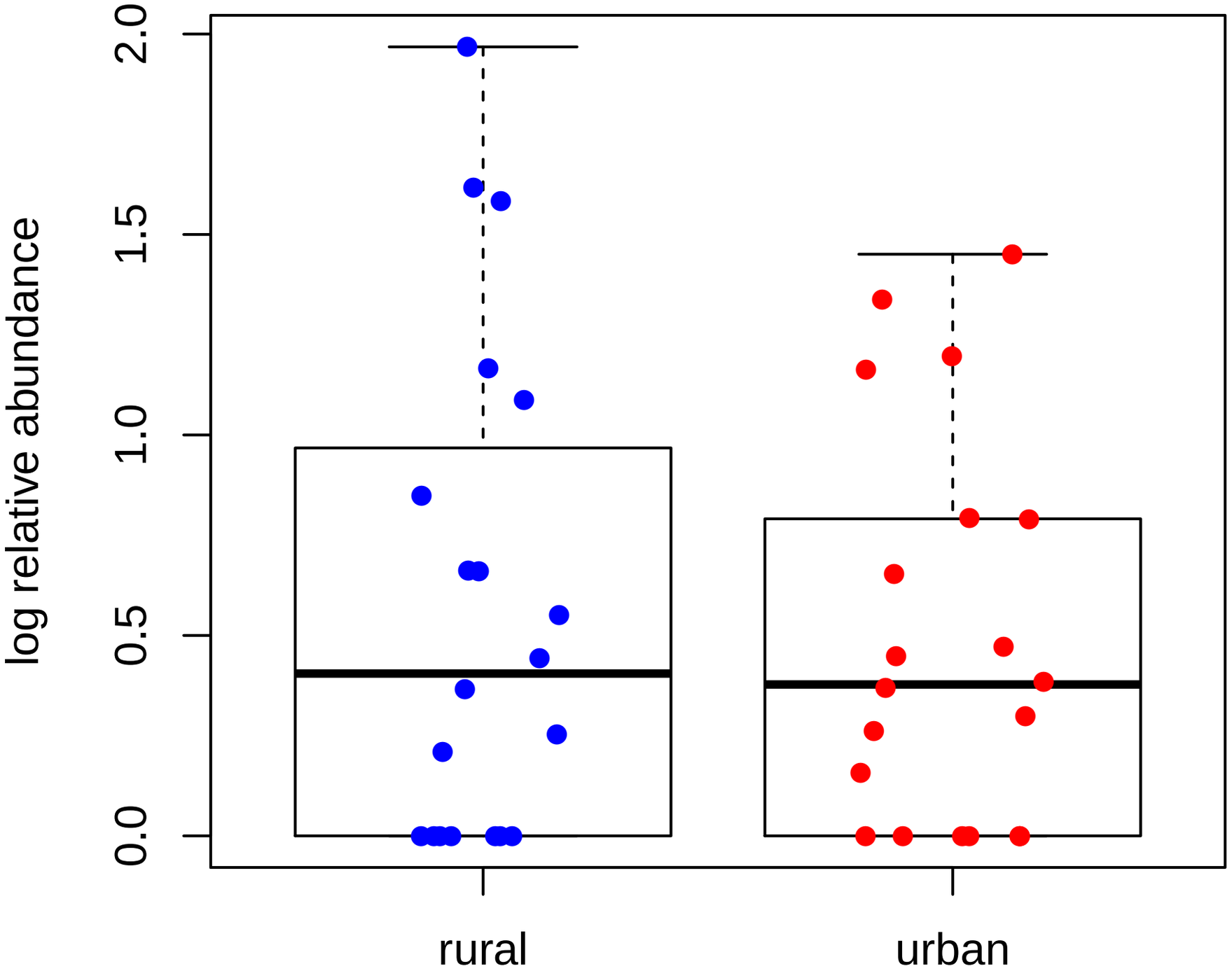

WGS species: Geobacillus_sp._WCH70
pAdjRuralUrban= 0.779
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

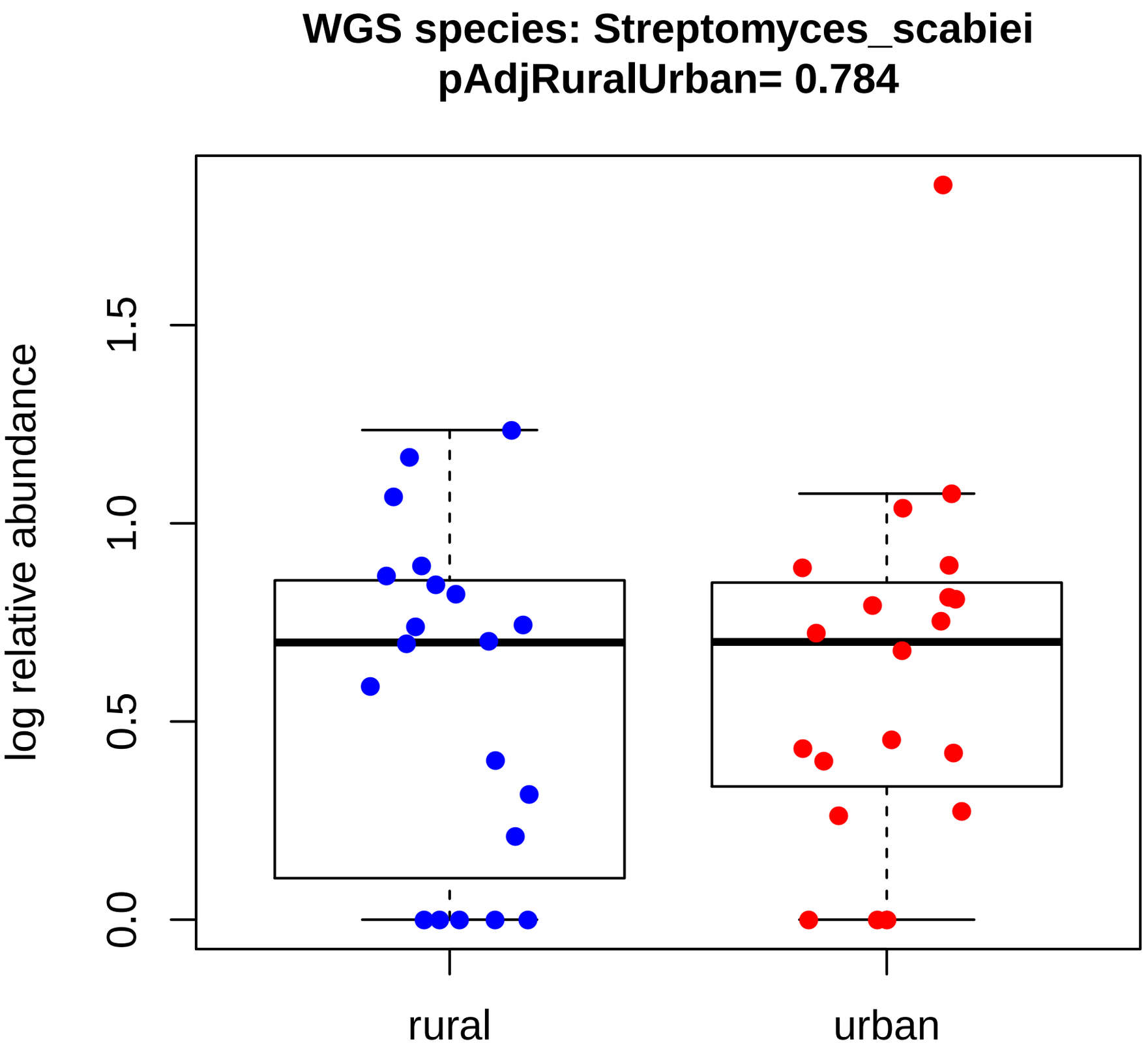

WGS species: Methanolobus_psychrophilus
pAdjRuralUrban= 0.78
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

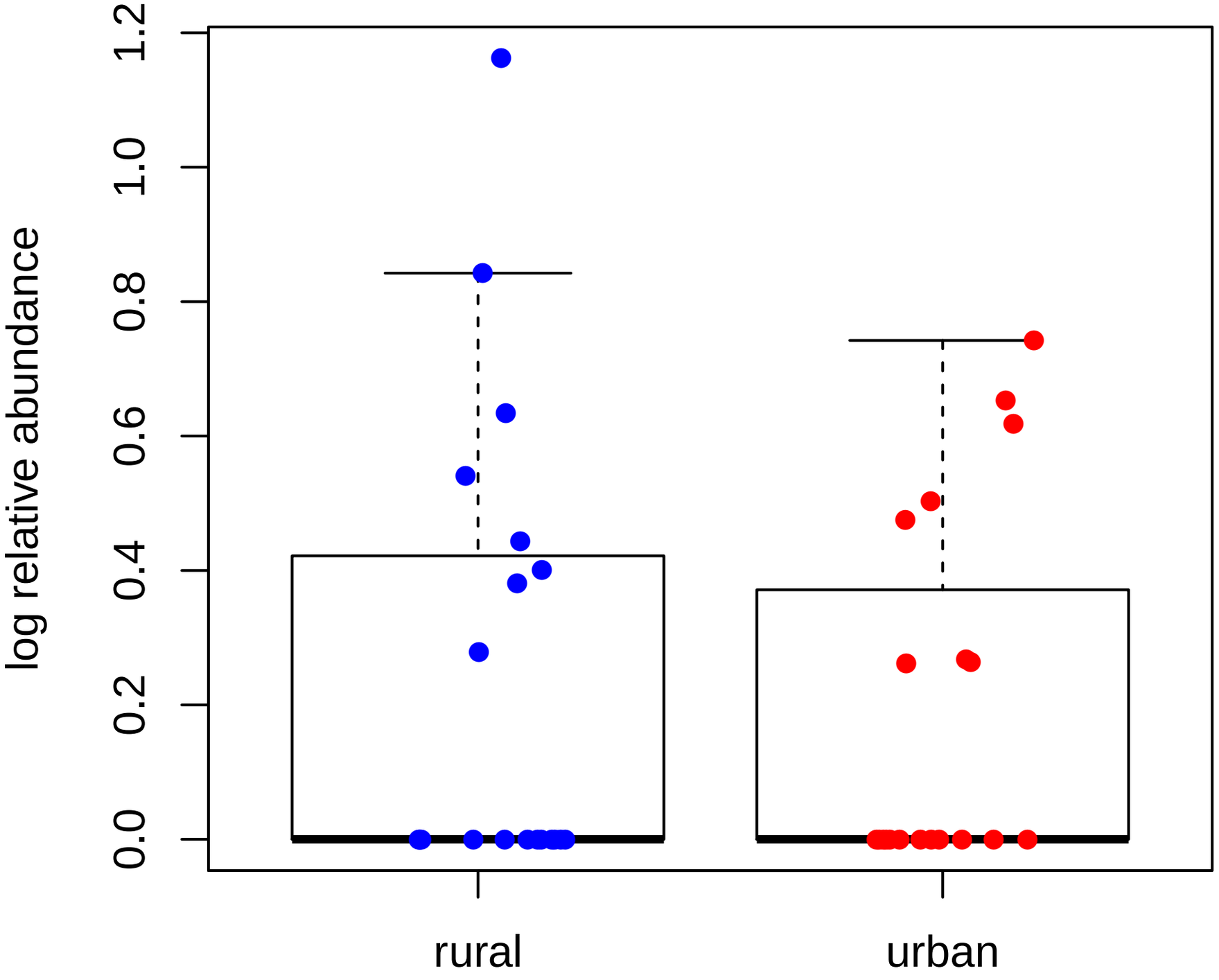

WGS species: Xanthomonas_fuscans
pAdjRuralUrban= 0.78
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

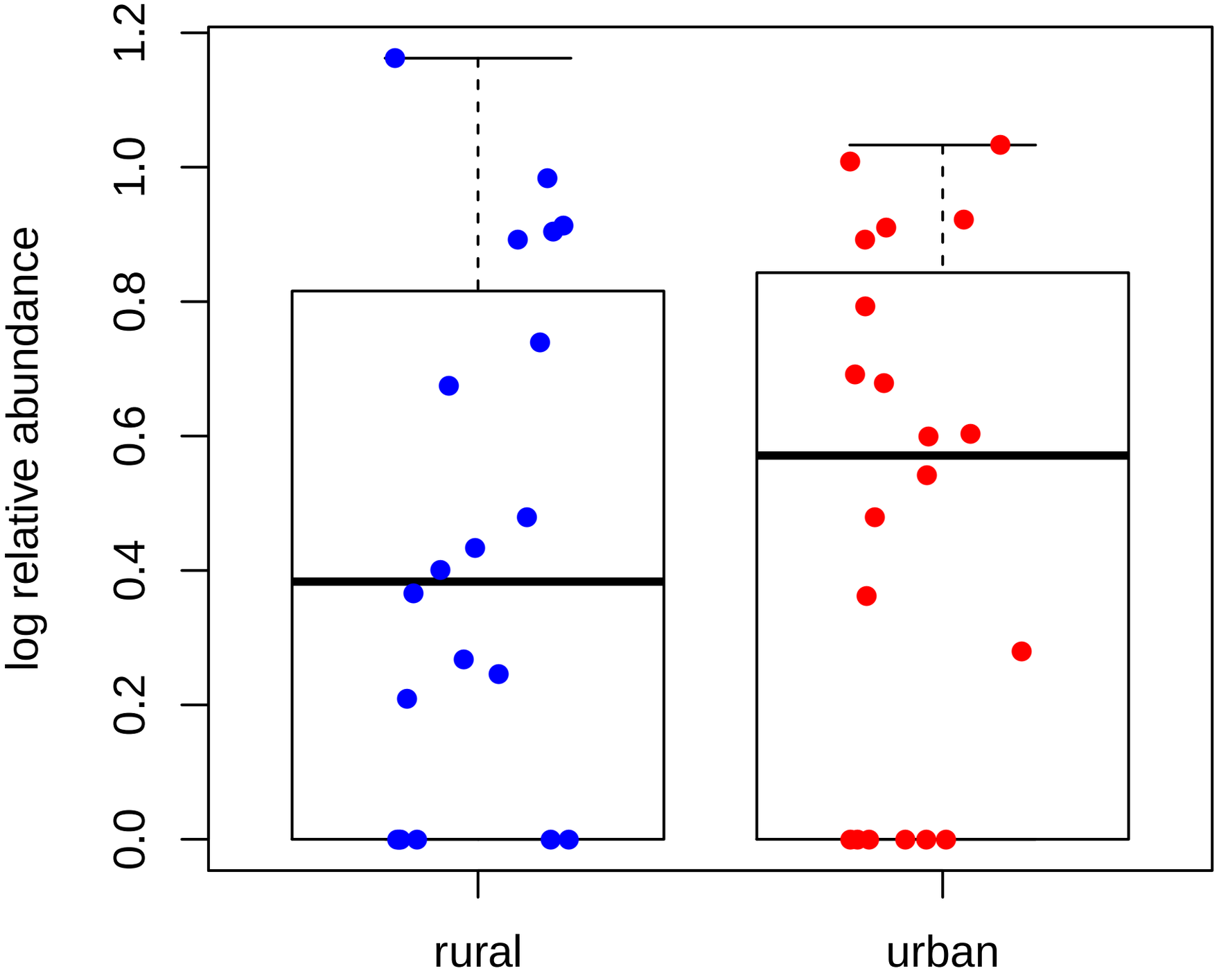

WGS species: Alteromonas_sp._SN2
pAdjRuralUrban= 0.78
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

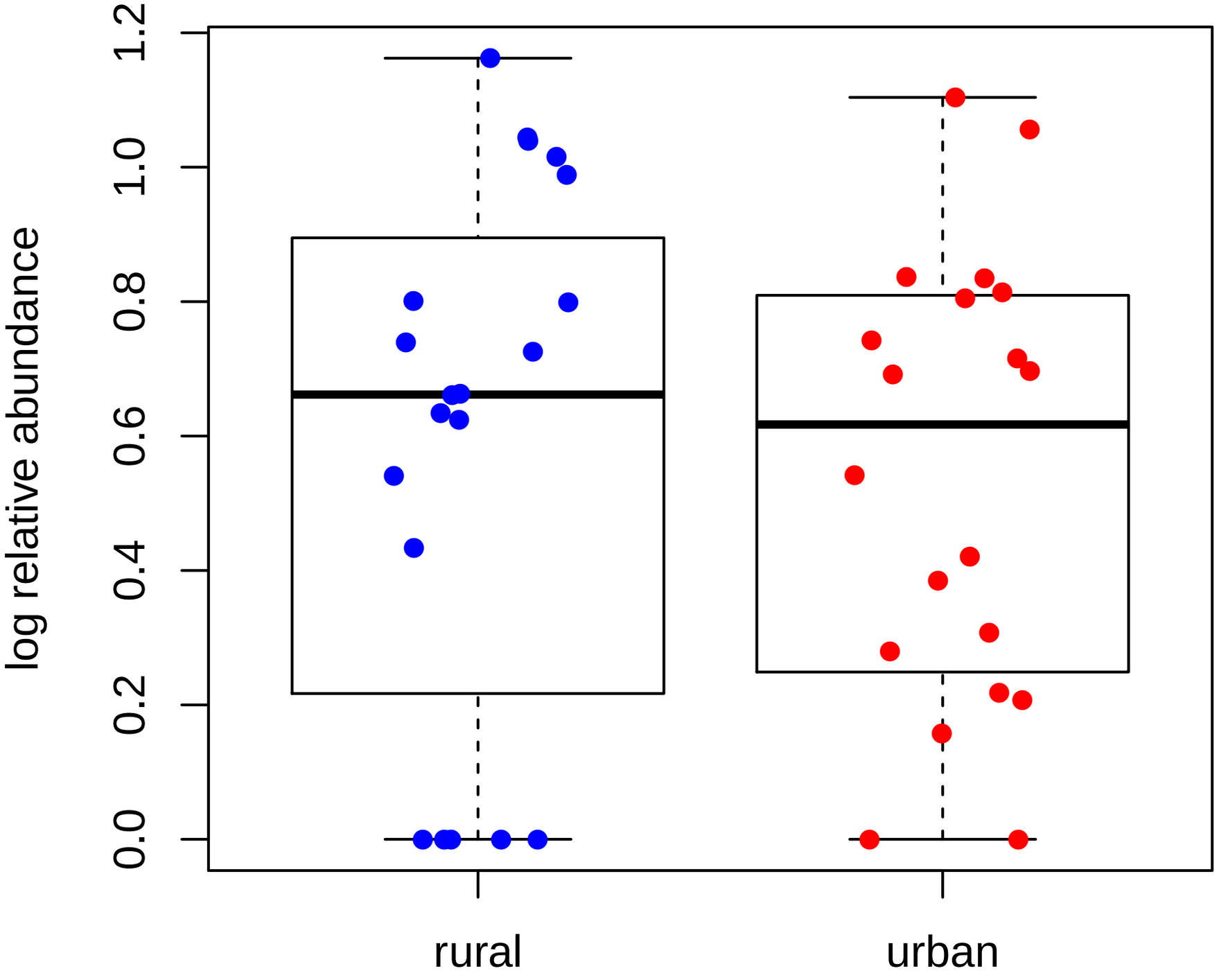

WGS species: Parvibaculum_lavamentivorans
pAdjRuralUrban= 0.783
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

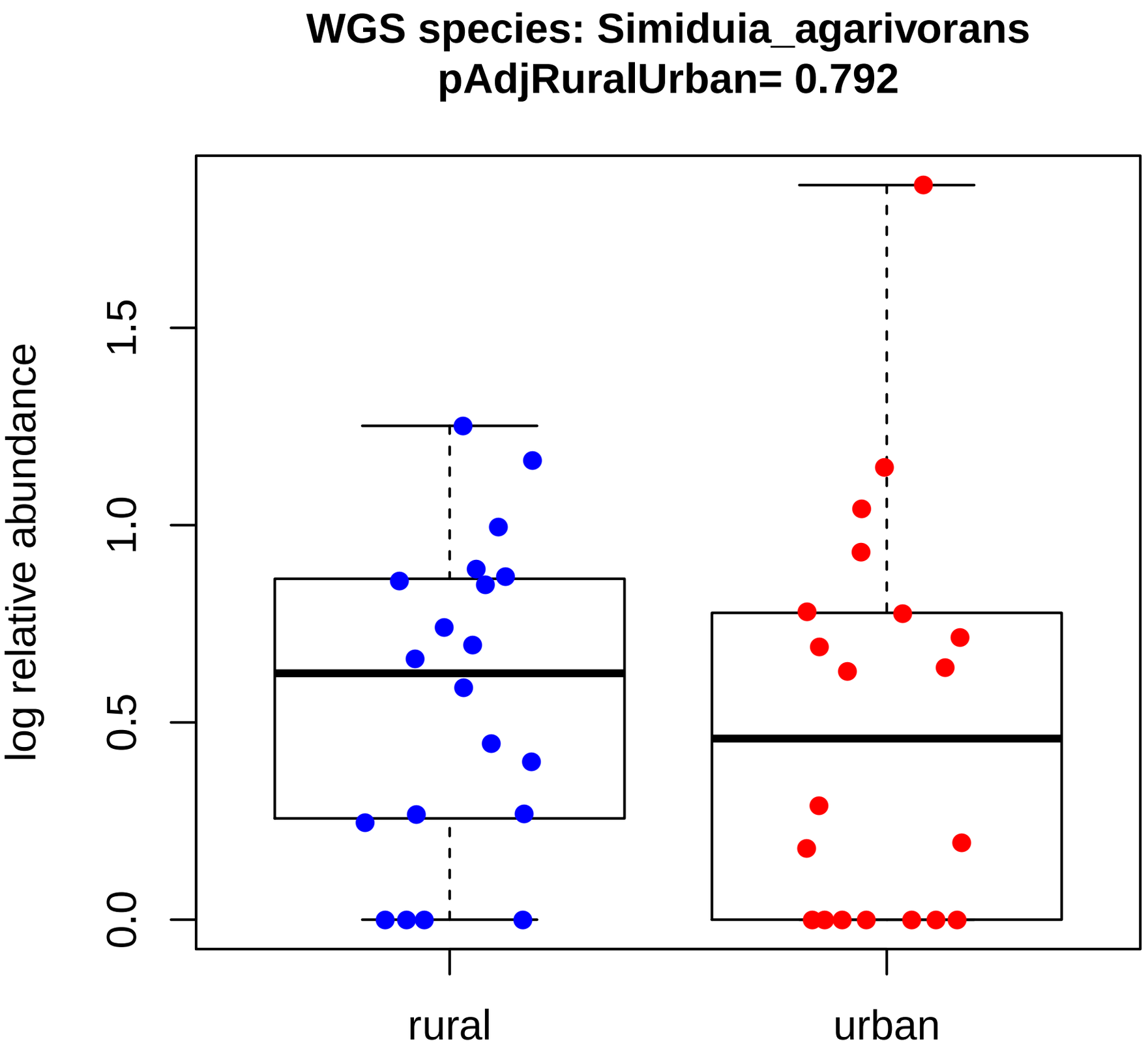

WGS species: Syntrophomonas_wolfei
pAdjRuralUrban= 0.784
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

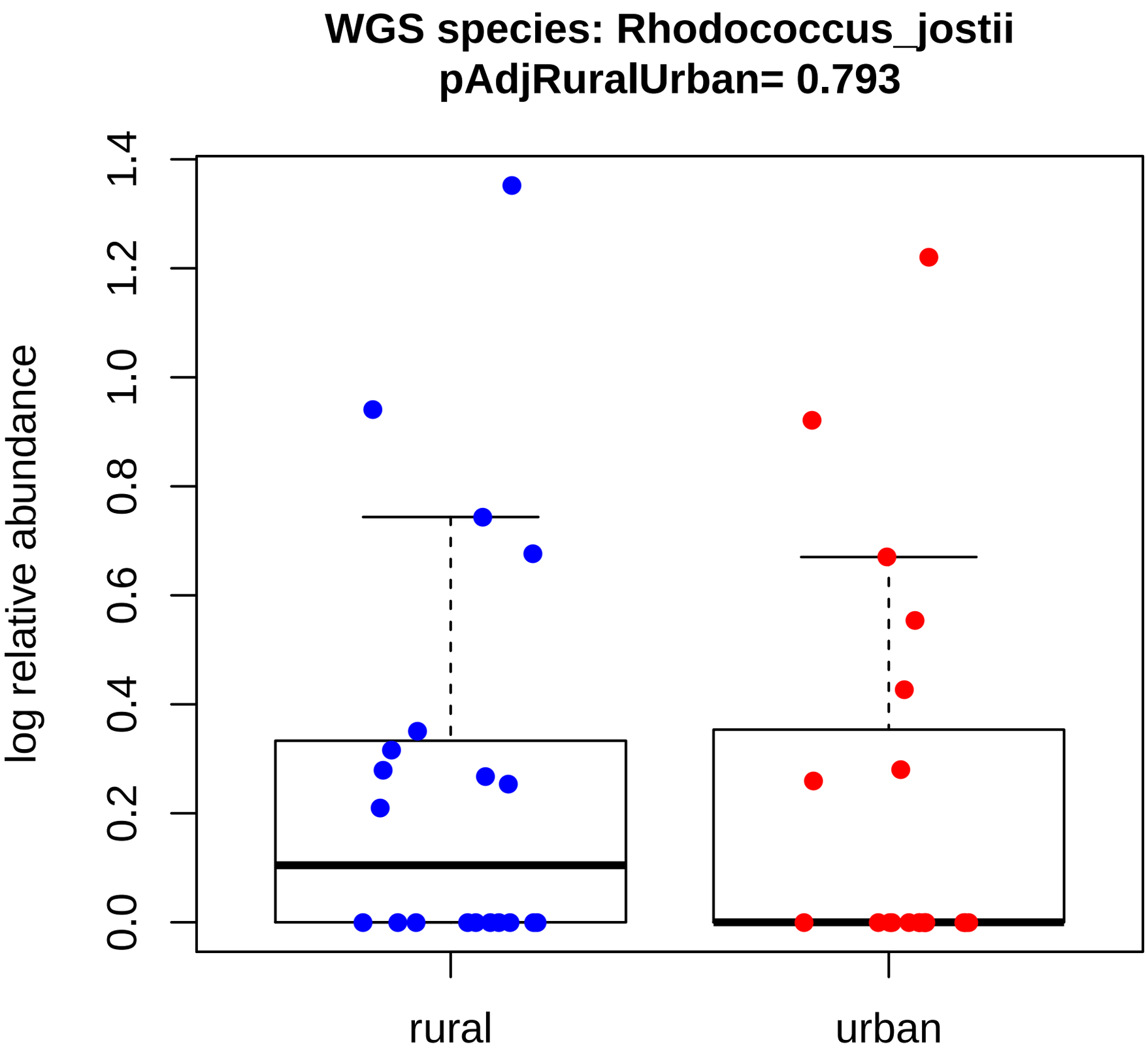

WGS species: Streptomyces_scabiei
pAdjRuralUrban= 0.784
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

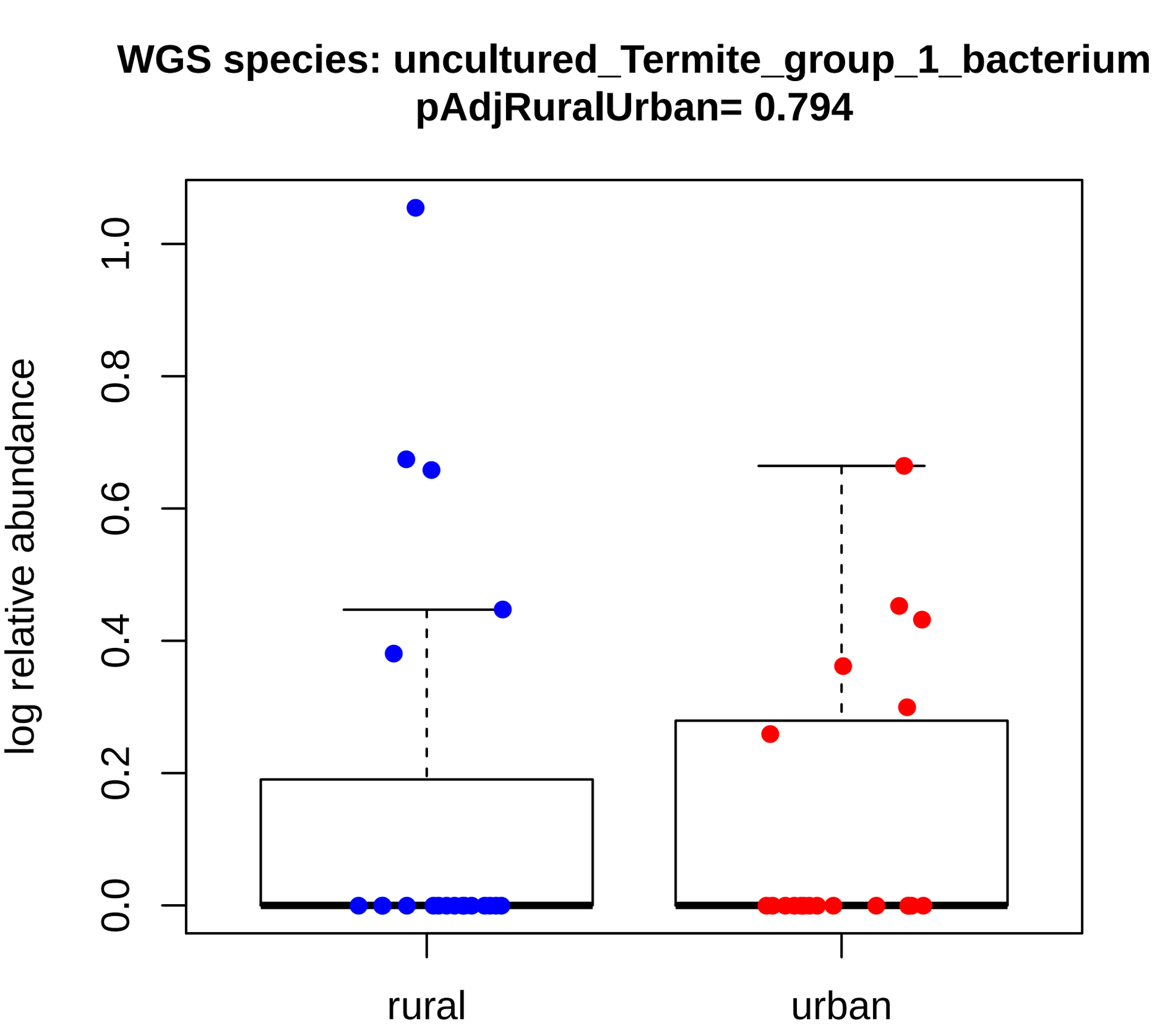

WGS species: Nitrosospira_multiformis
pAdjRuralUrban= 0.785
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

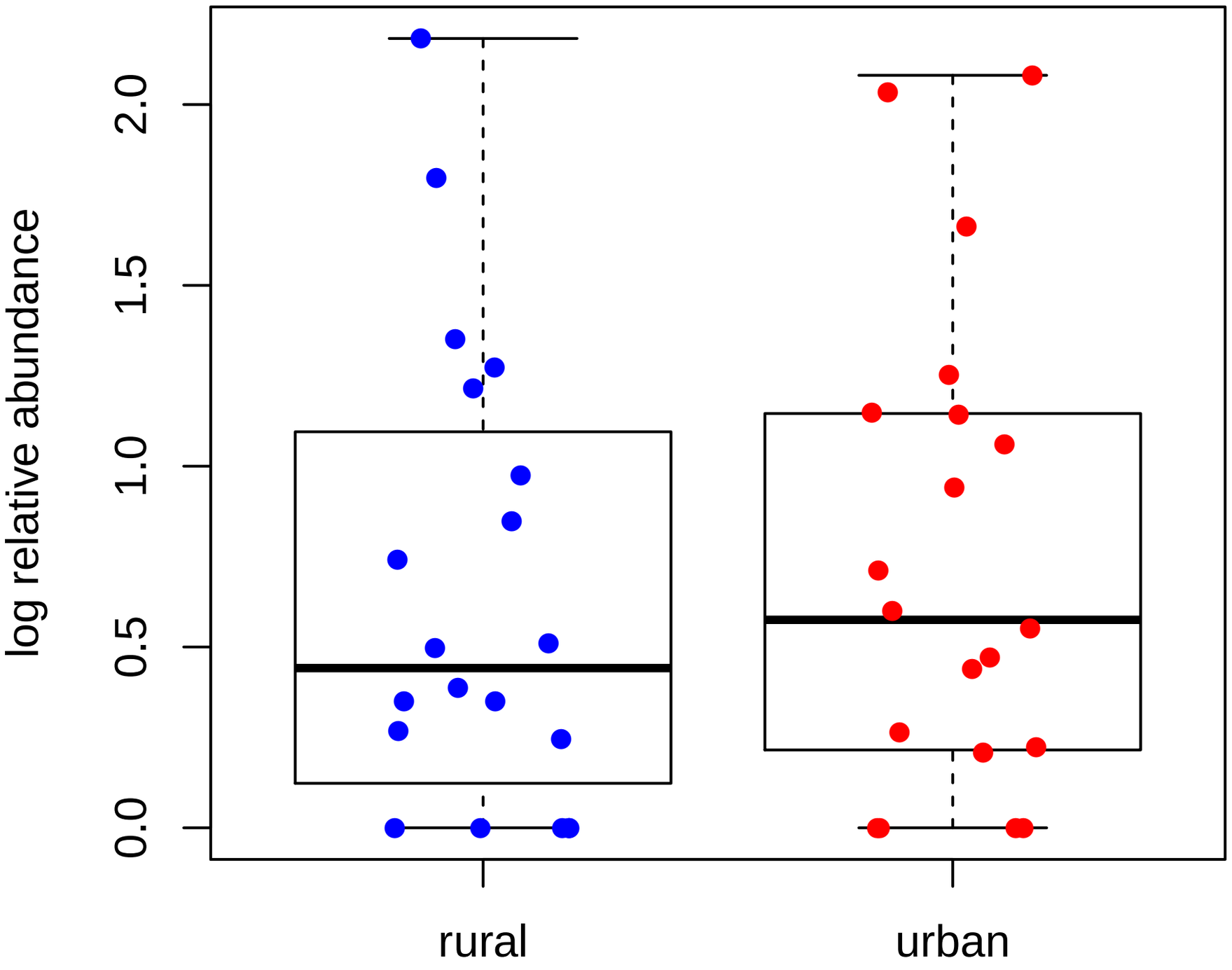

WGS species: Candidatus_Sulcia_muelleri
pAdjRuralUrban= 0.786
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

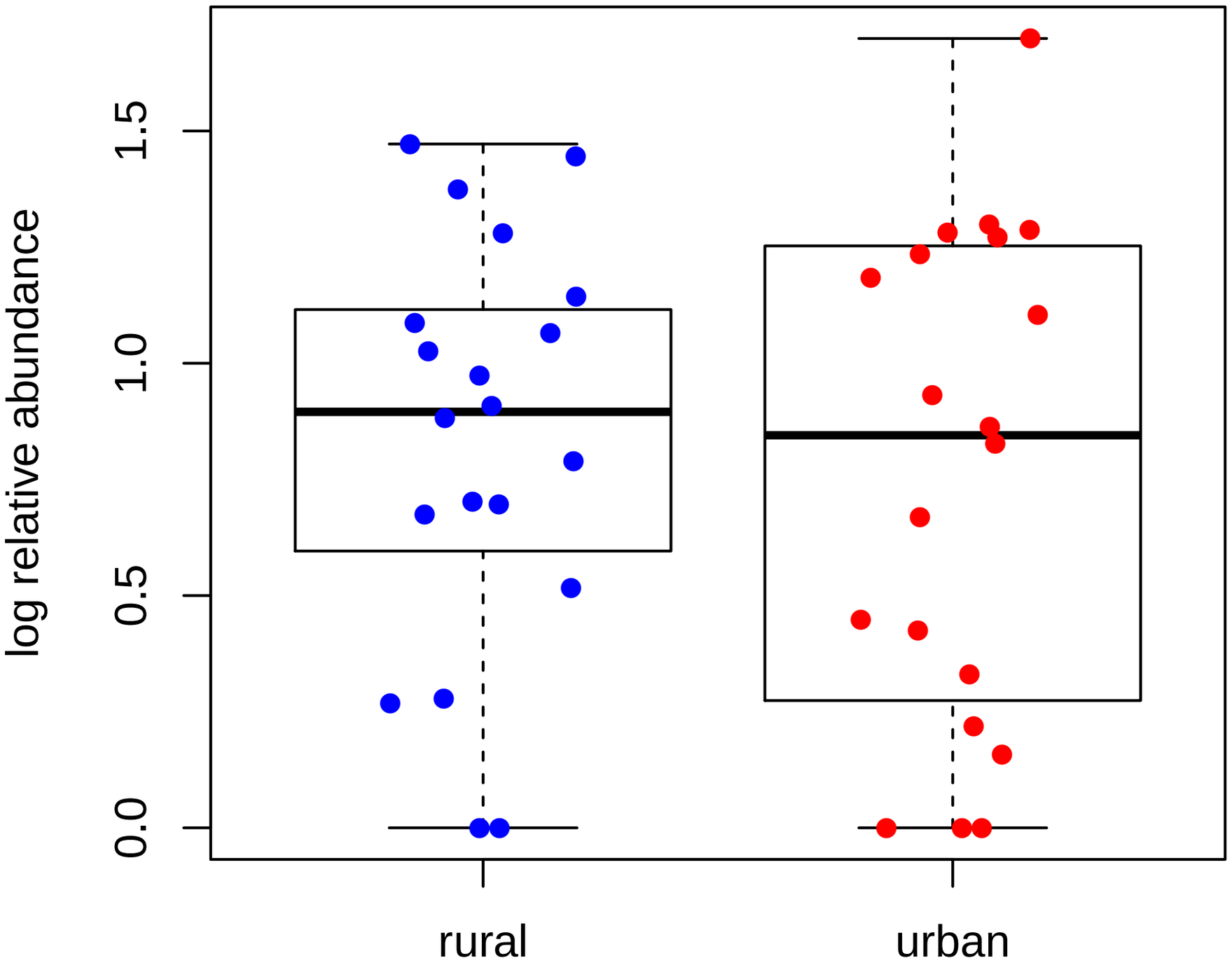

WGS species: Meiothermus_ruber
pAdjRuralUrban= 0.789
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

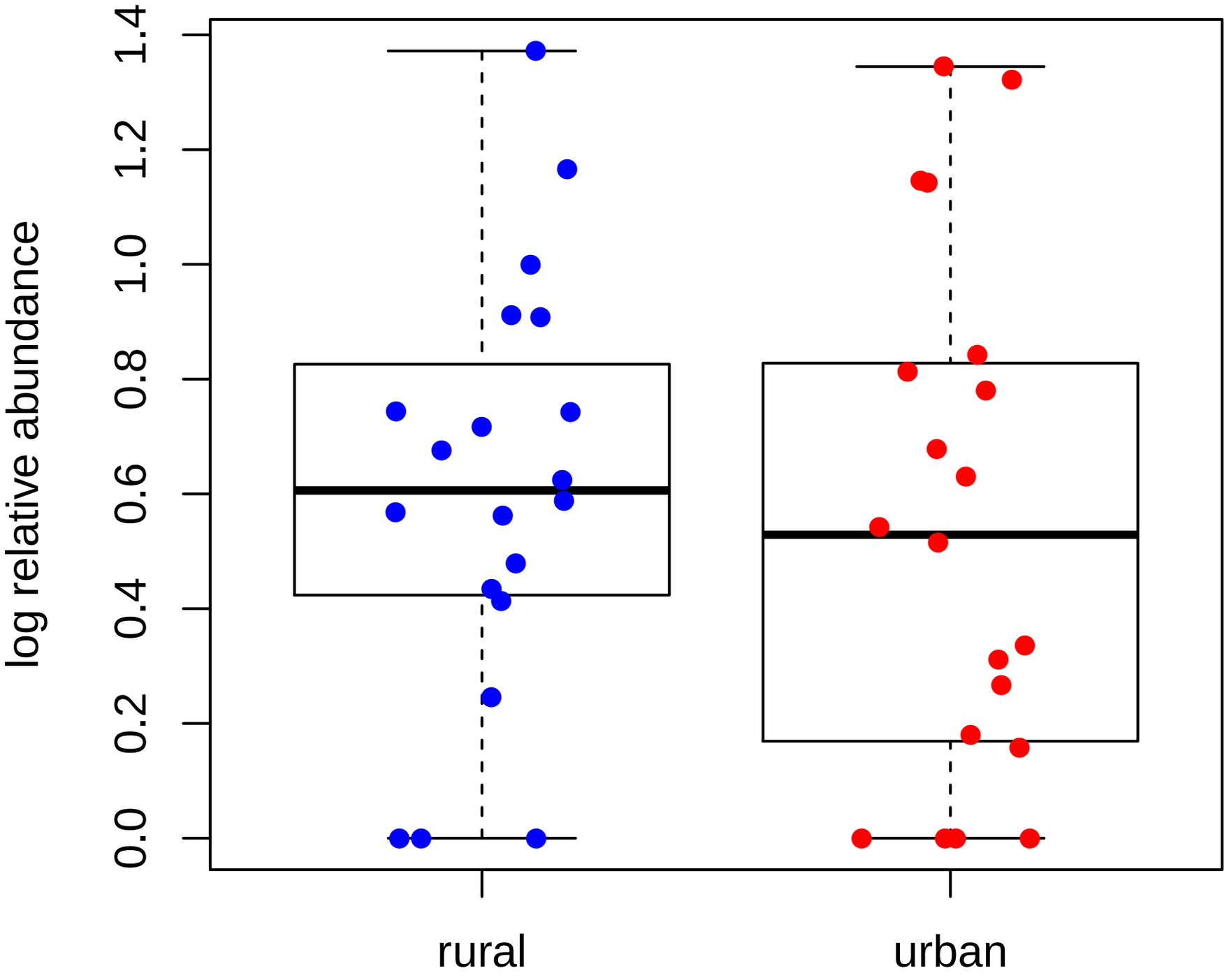

WGS species: Simiduia_agarivorans
pAdjRuralUrban= 0.792
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

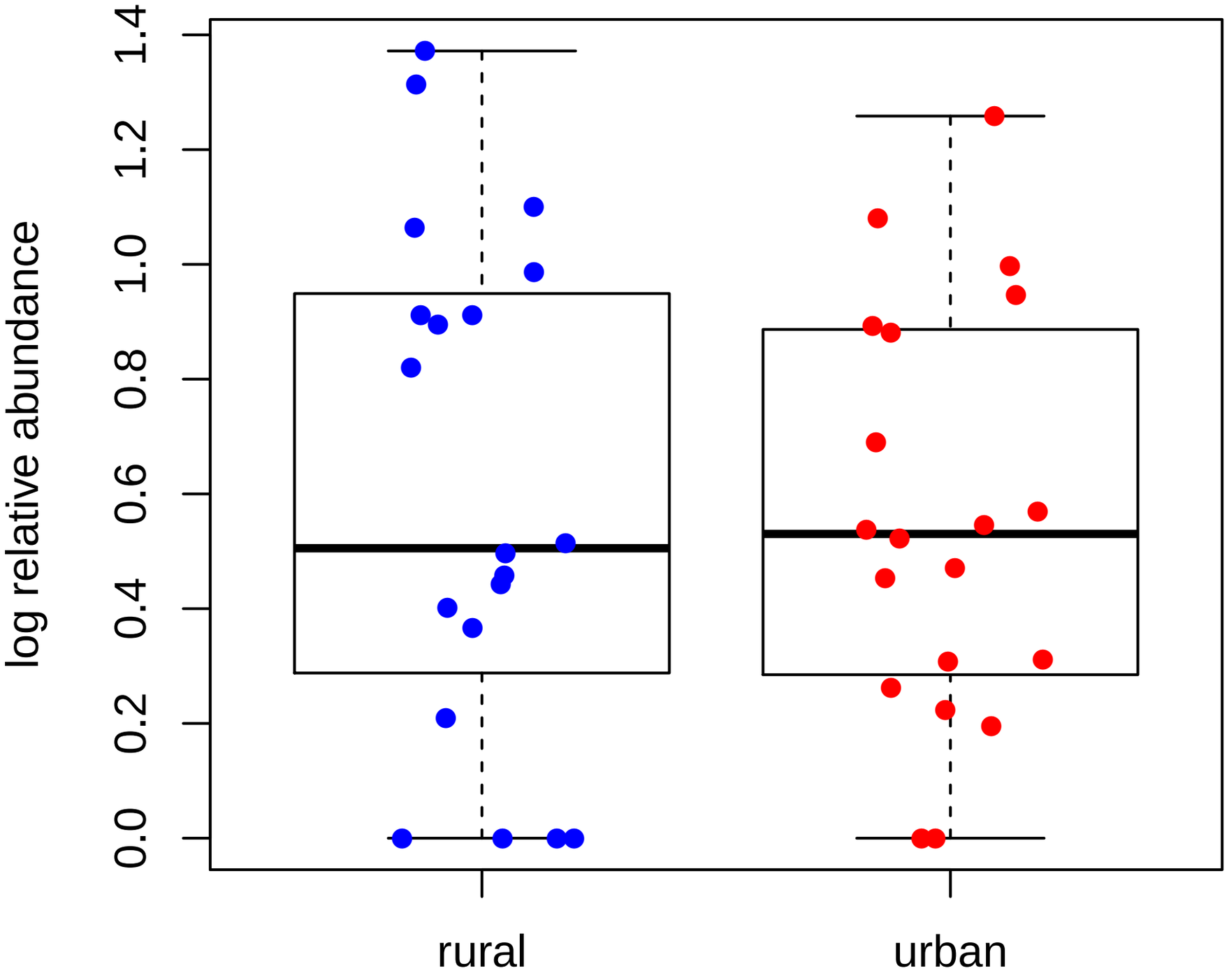

WGS species: Rhodococcus_jostii
pAdjRuralUrban= 0.793
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

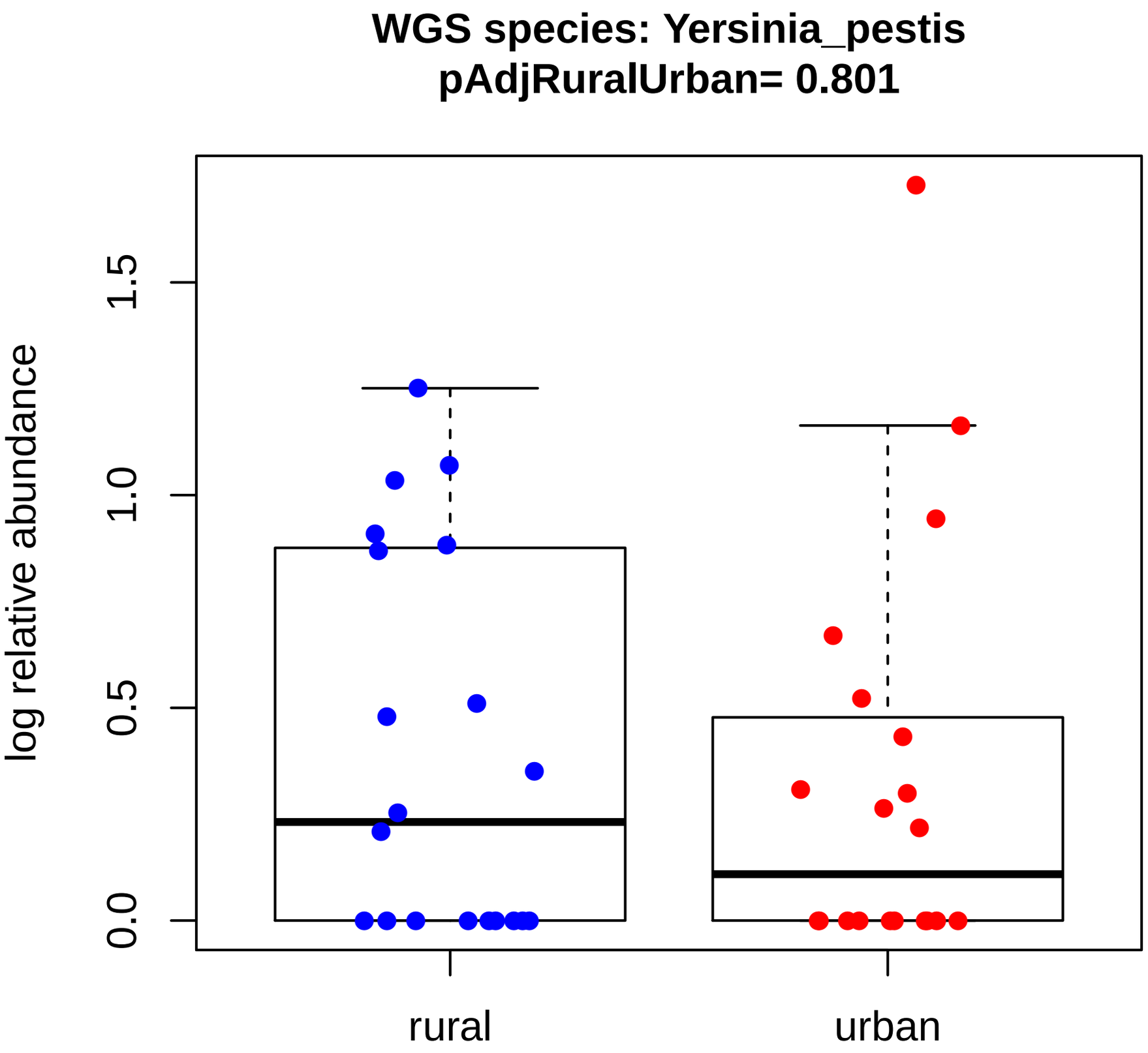

WGS species: uncultured_Termite_group_1_bacterium
pAdjRuralUrban= 0.794
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

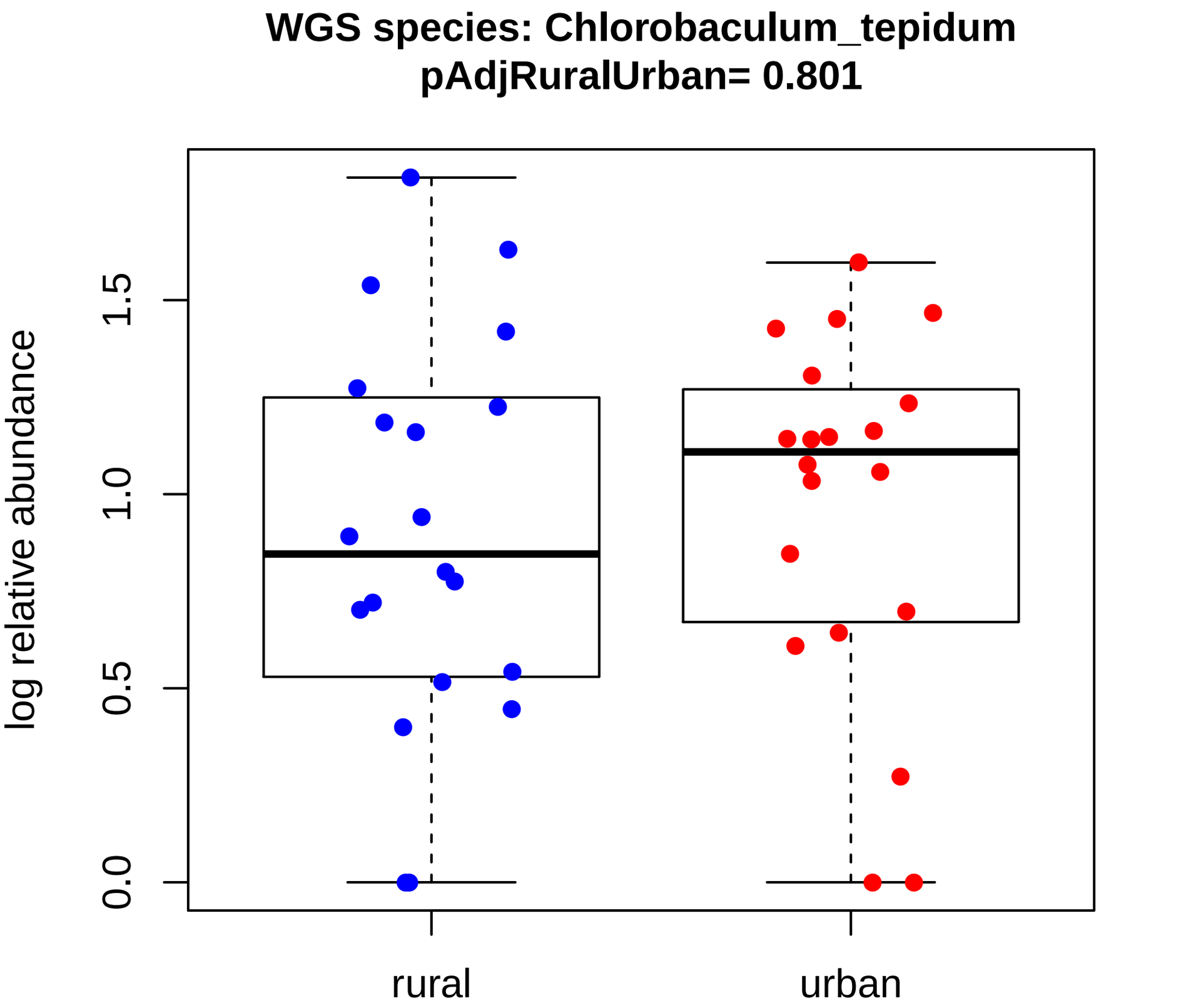

WGS species: Pantoea_vagans
pAdjRuralUrban= 0.799
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

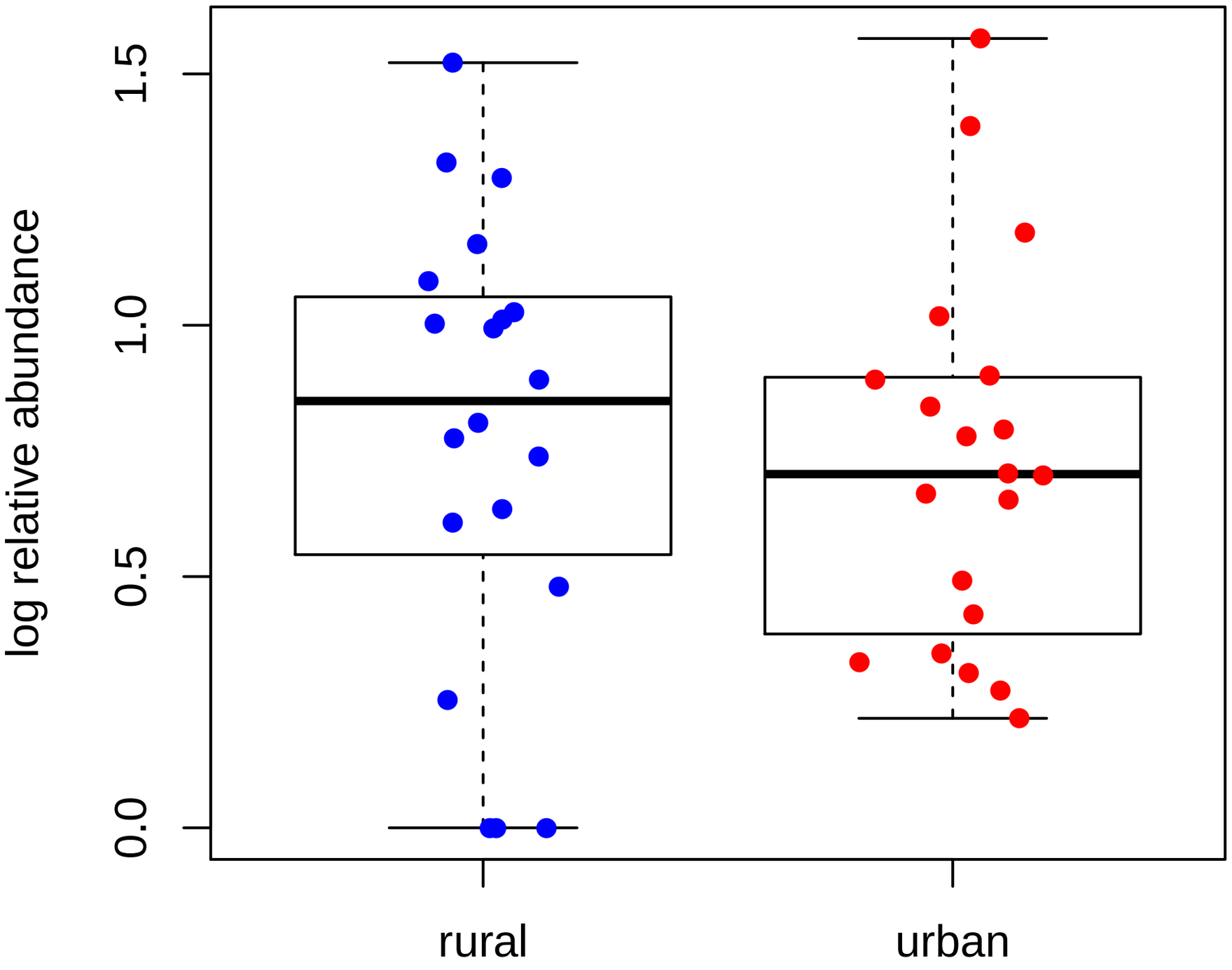

WGS species: Hyphomonas_neptunium
pAdjRuralUrban= 0.799
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

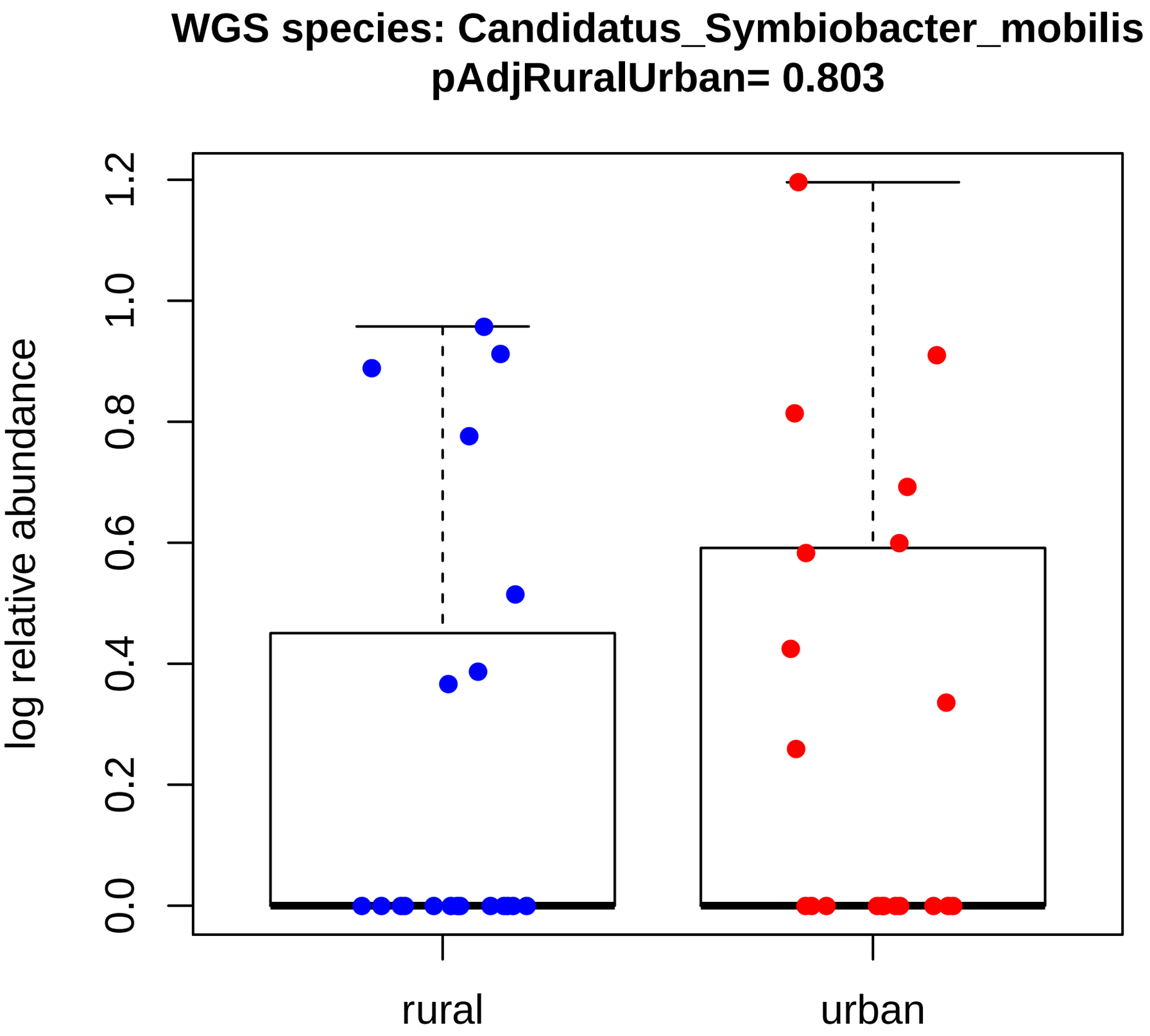

WGS species: Sinorhizobium_meliloti
pAdjRuralUrban= 0.799
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

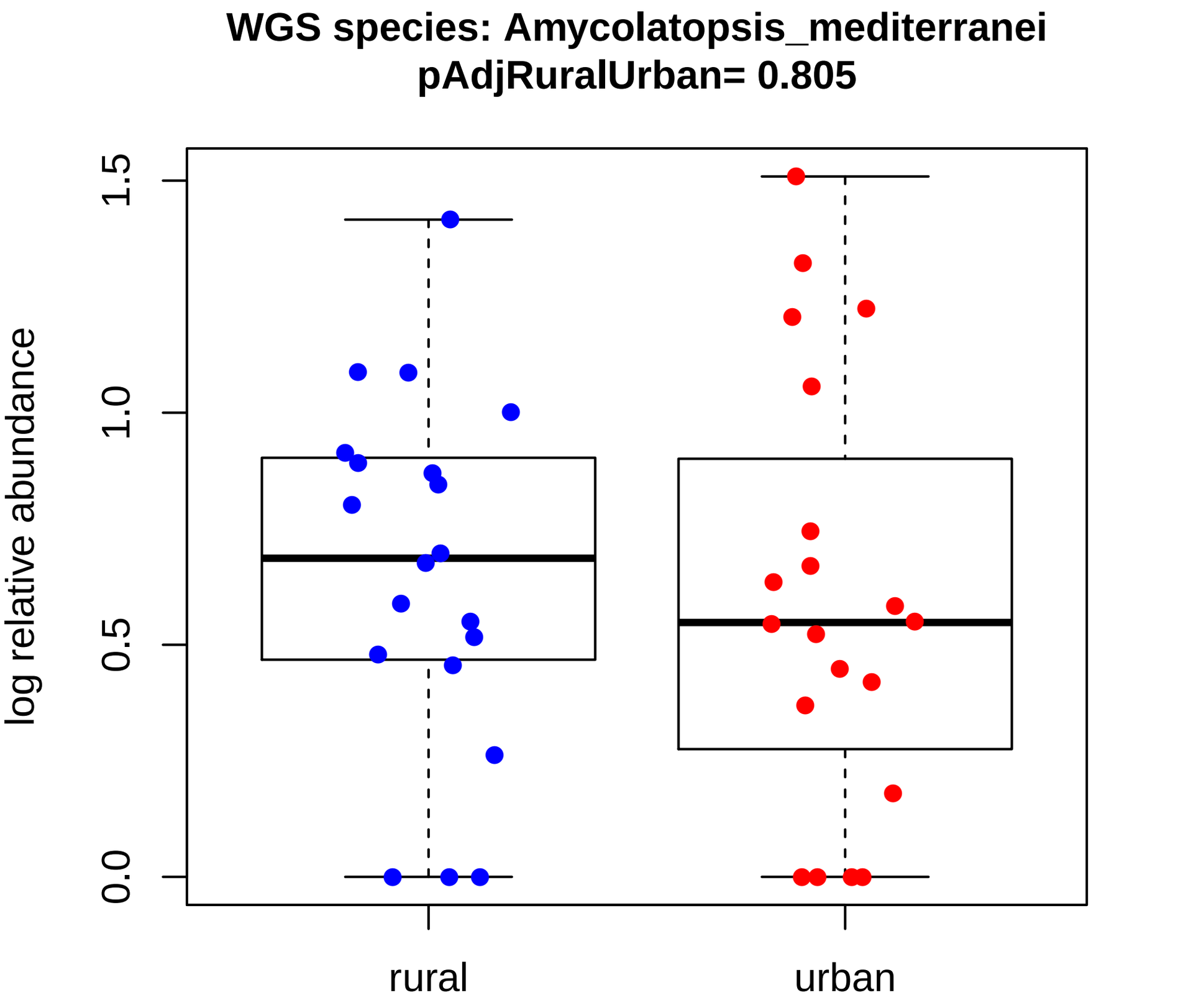

WGS species: Advenella_kashmirensis
pAdjRuralUrban= 0.799
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

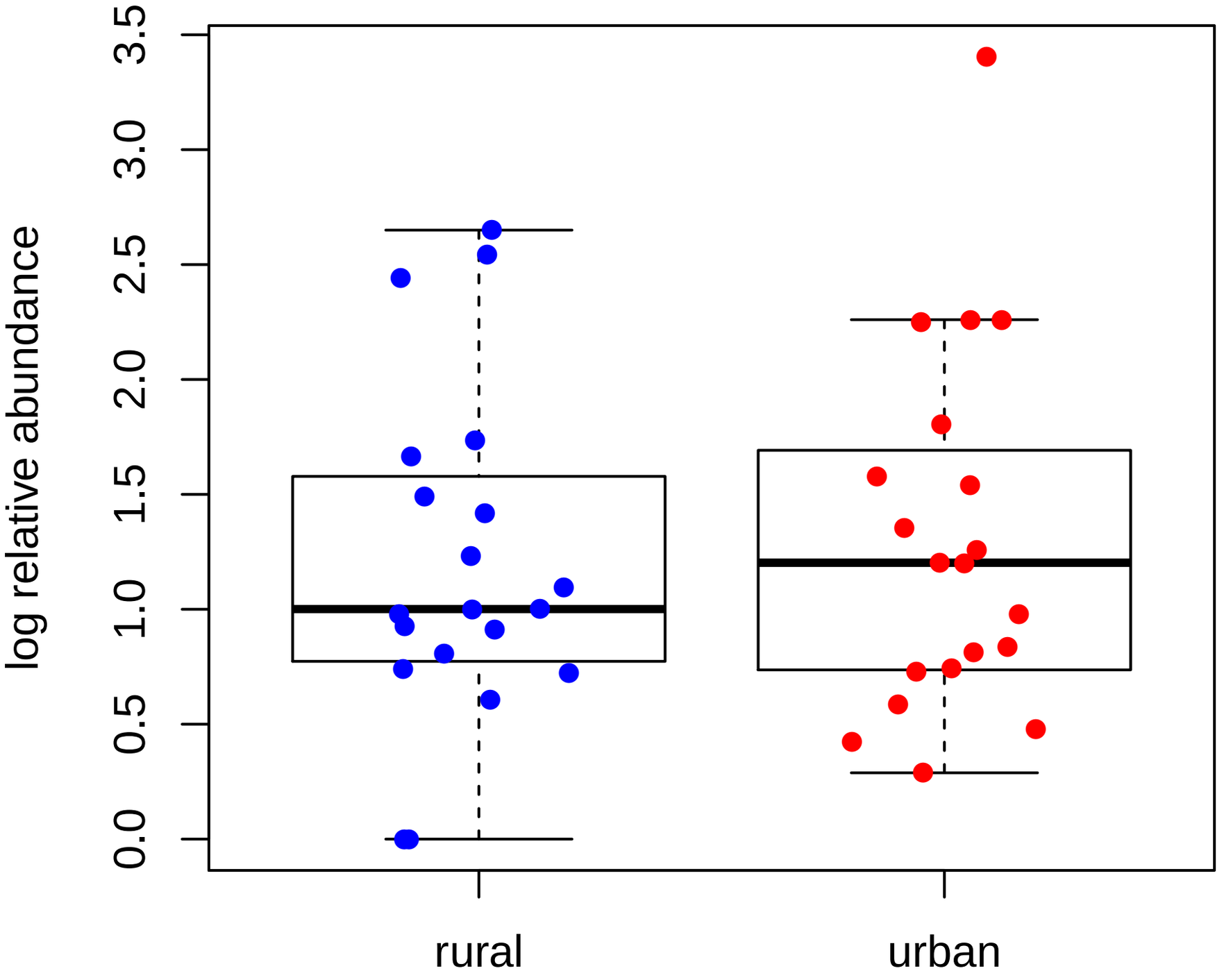

WGS species: Yersinia_pestis
pAdjRuralUrban= 0.801
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

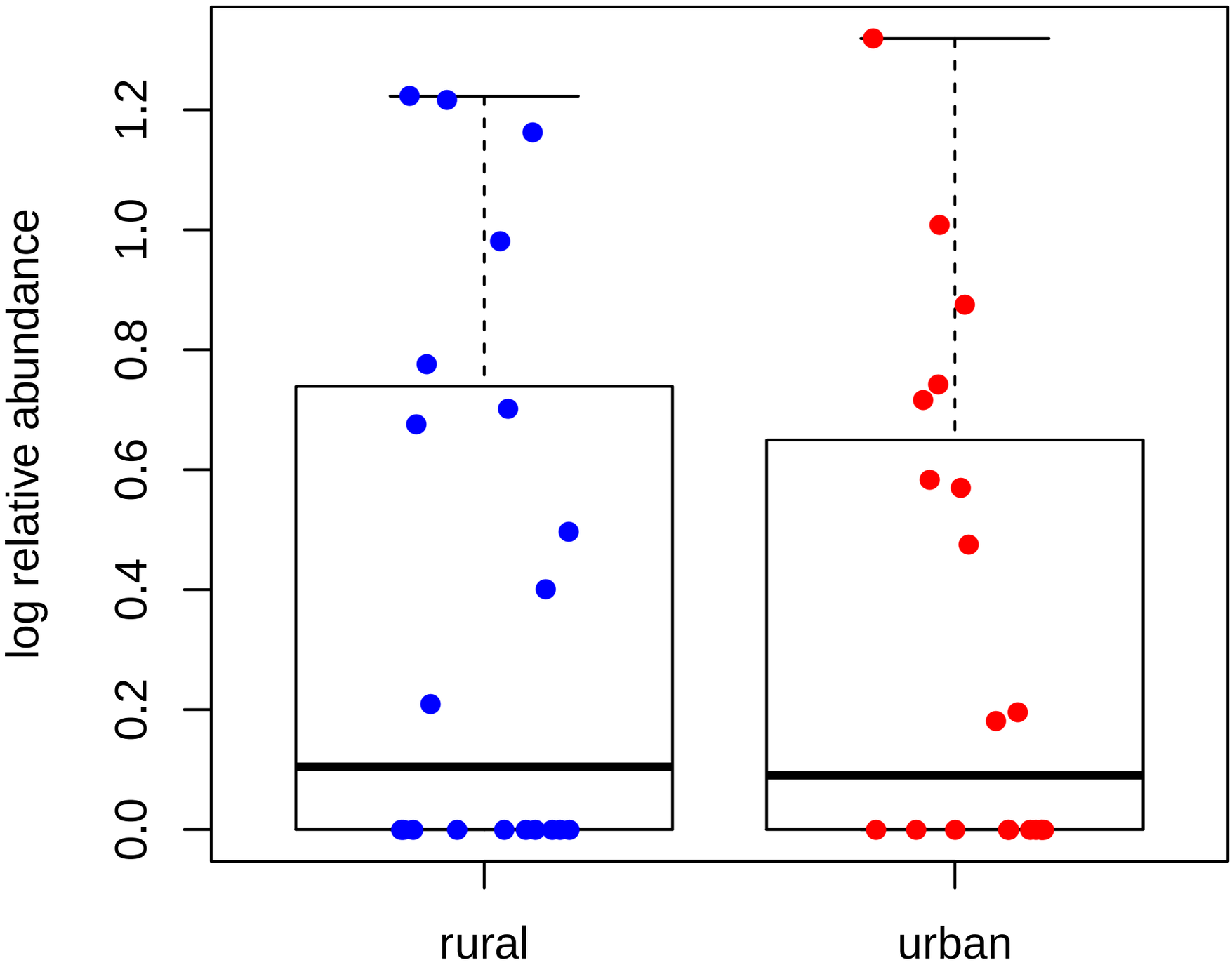

WGS species: Chlorobaculum_tepidum
pAdjRuralUrban= 0.801
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

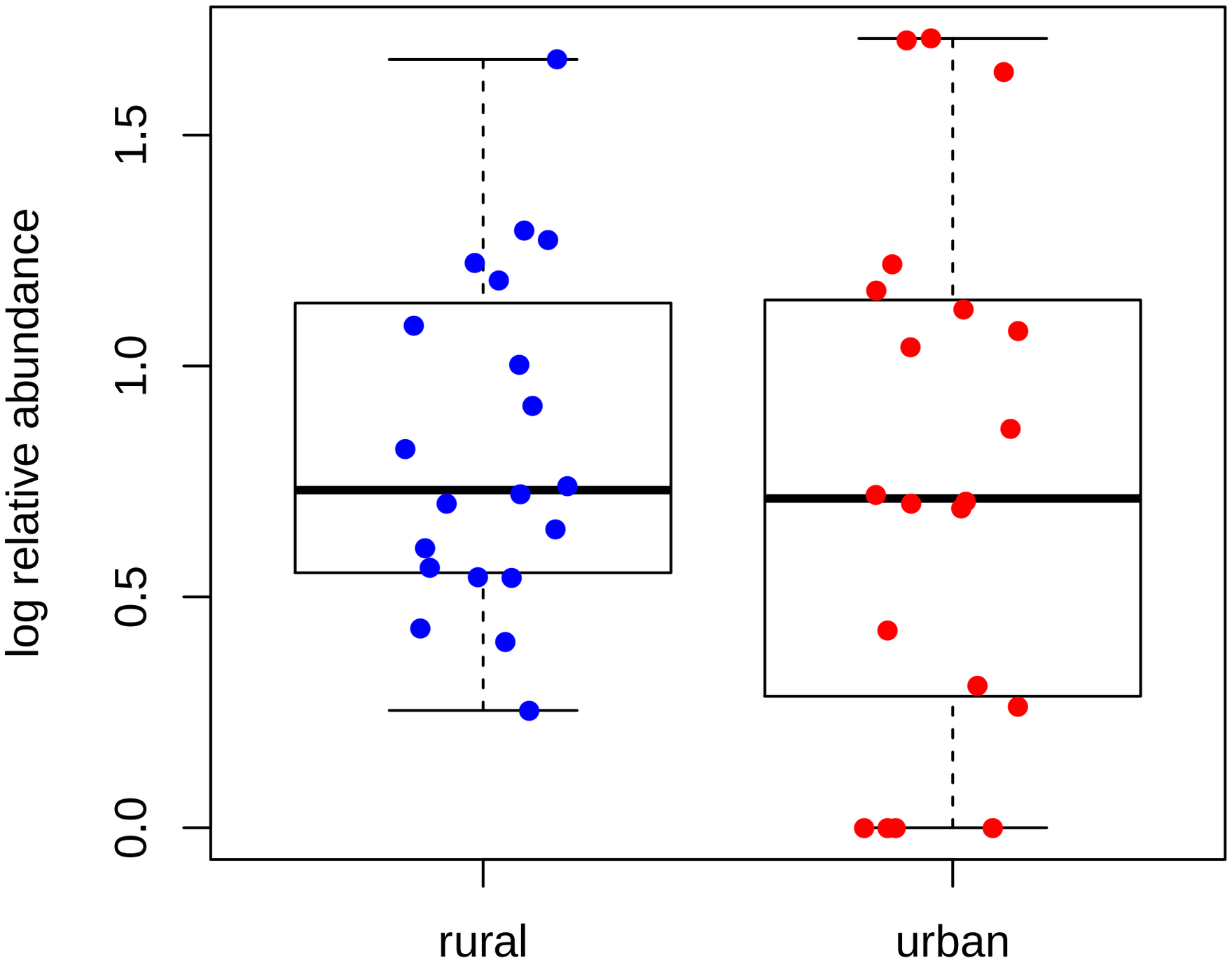

WGS species: Allochromatium_vinosum
pAdjRuralUrban= 0.801
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

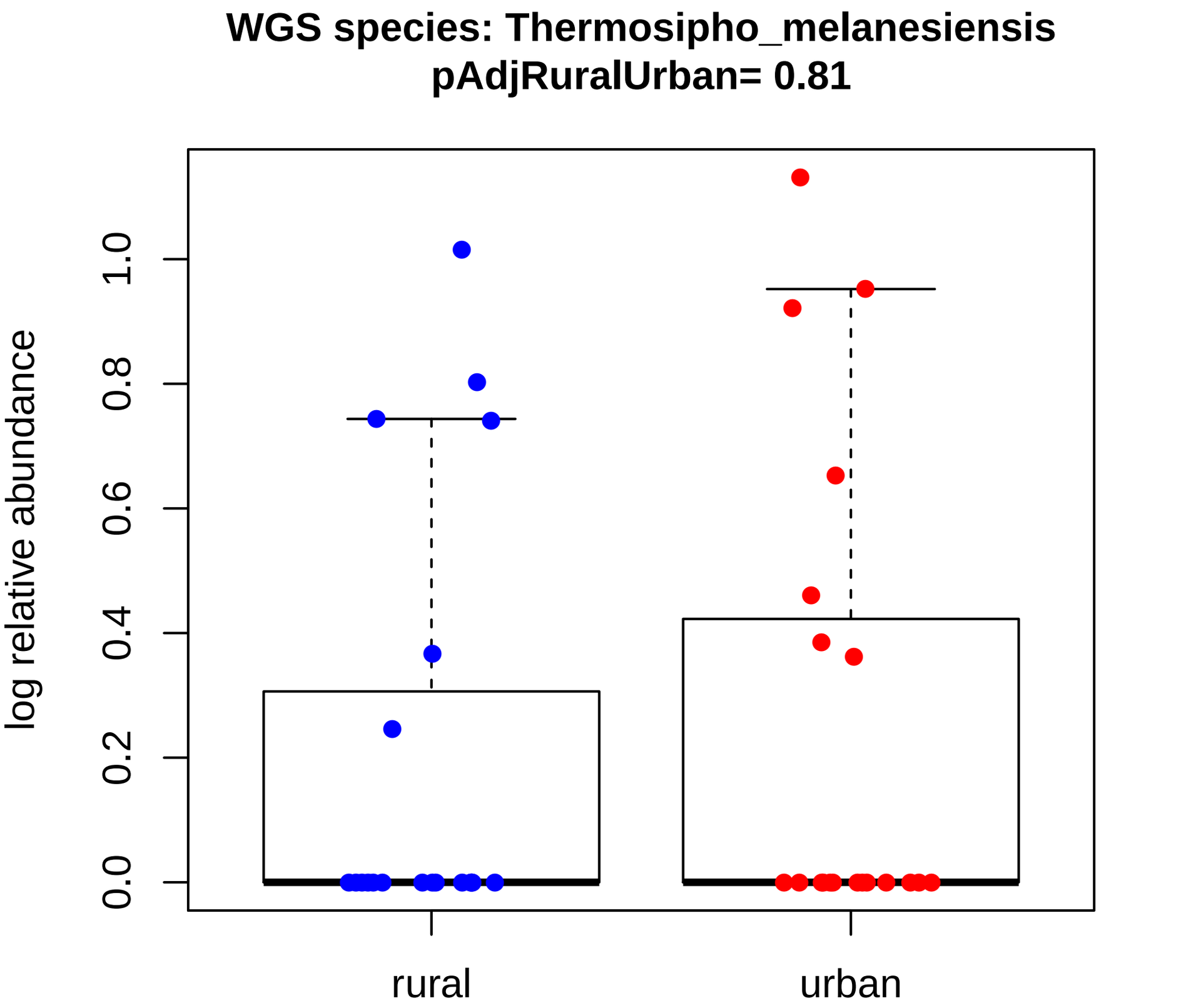

WGS species: Candidatus_Symbiobacter_mobilis
pAdjRuralUrban= 0.803
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

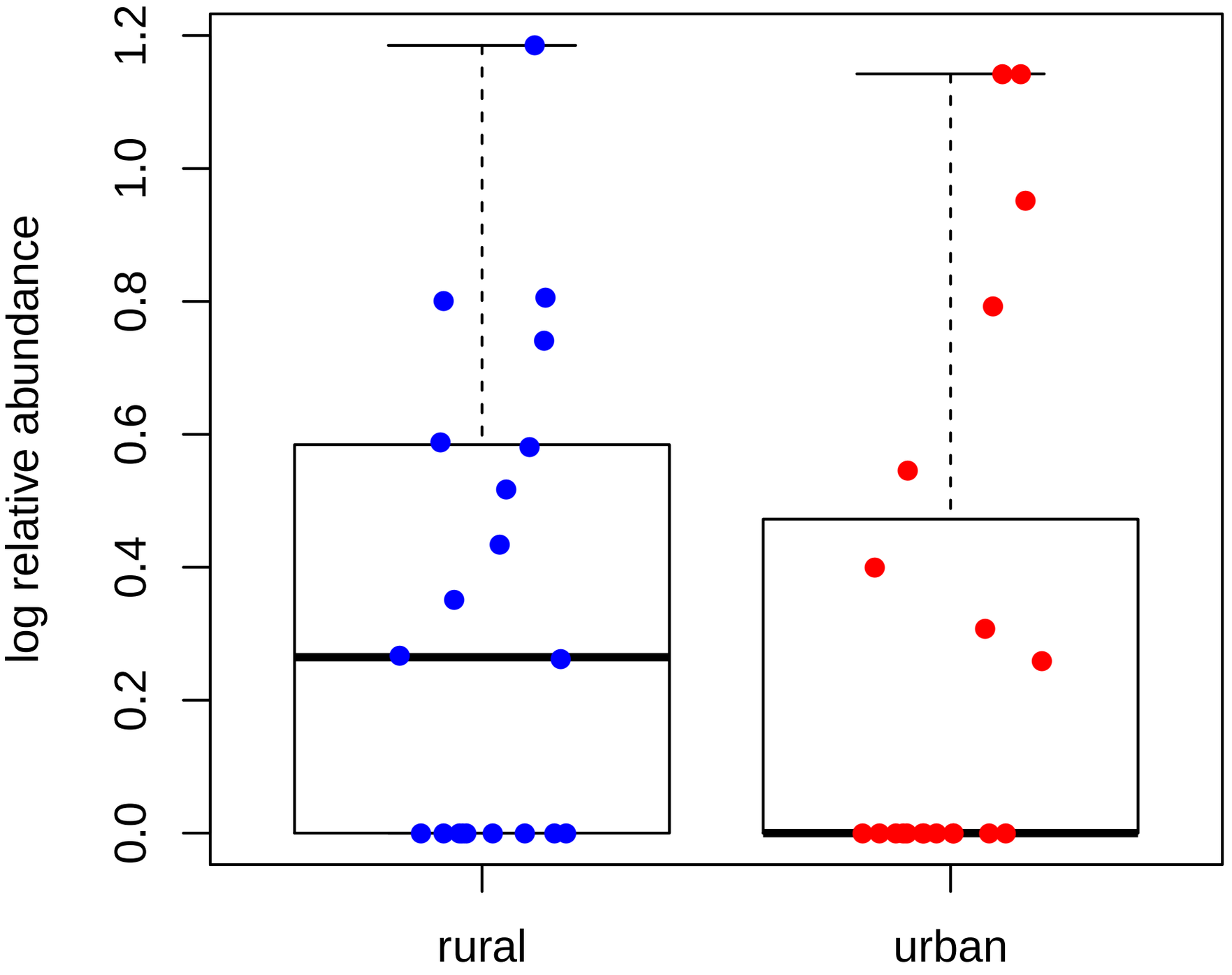

WGS species: Amycolatopsis_mediterranei
pAdjRuralUrban= 0.805
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

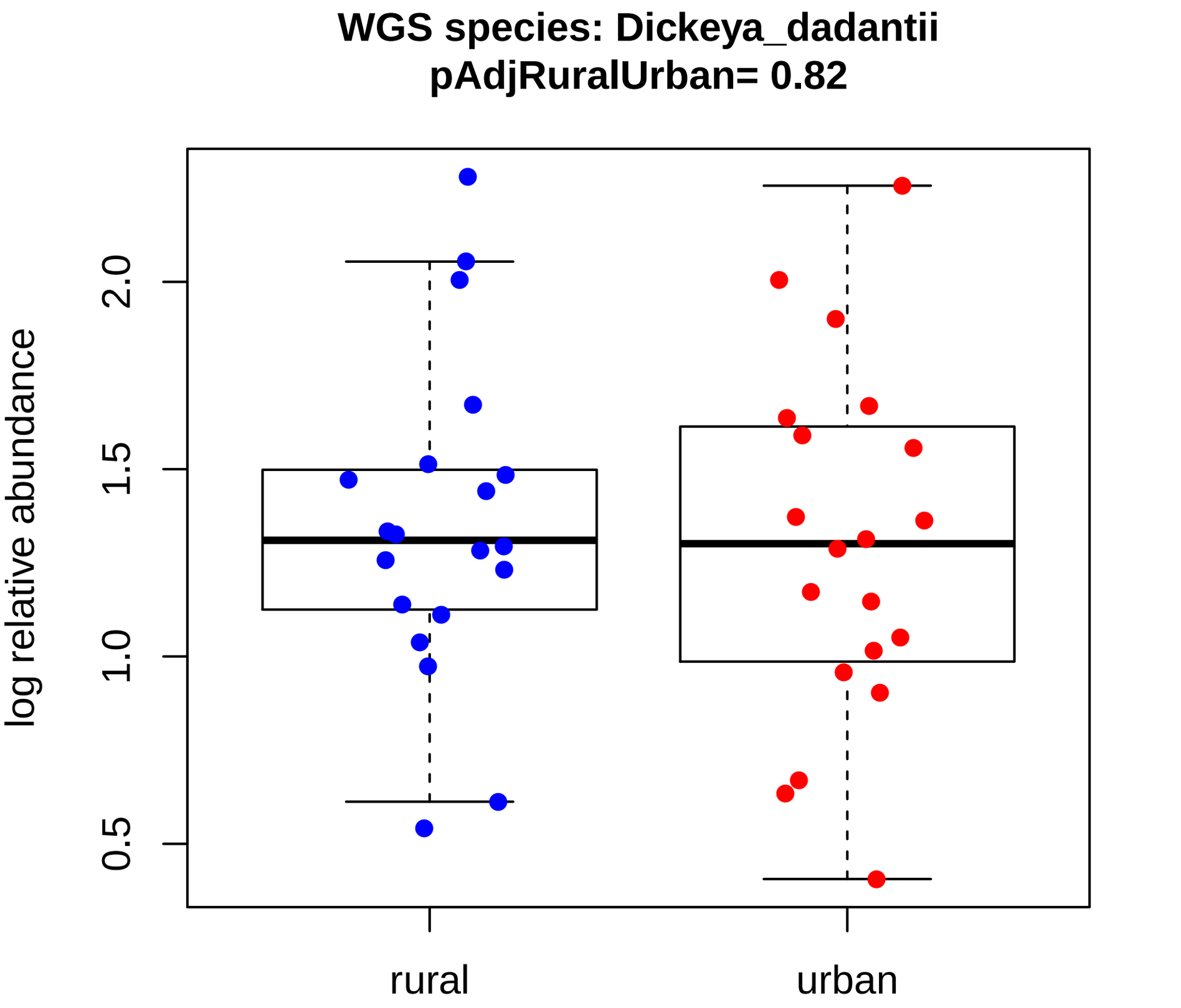

WGS species: Citrobacter_koseri
pAdjRuralUrban= 0.808
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

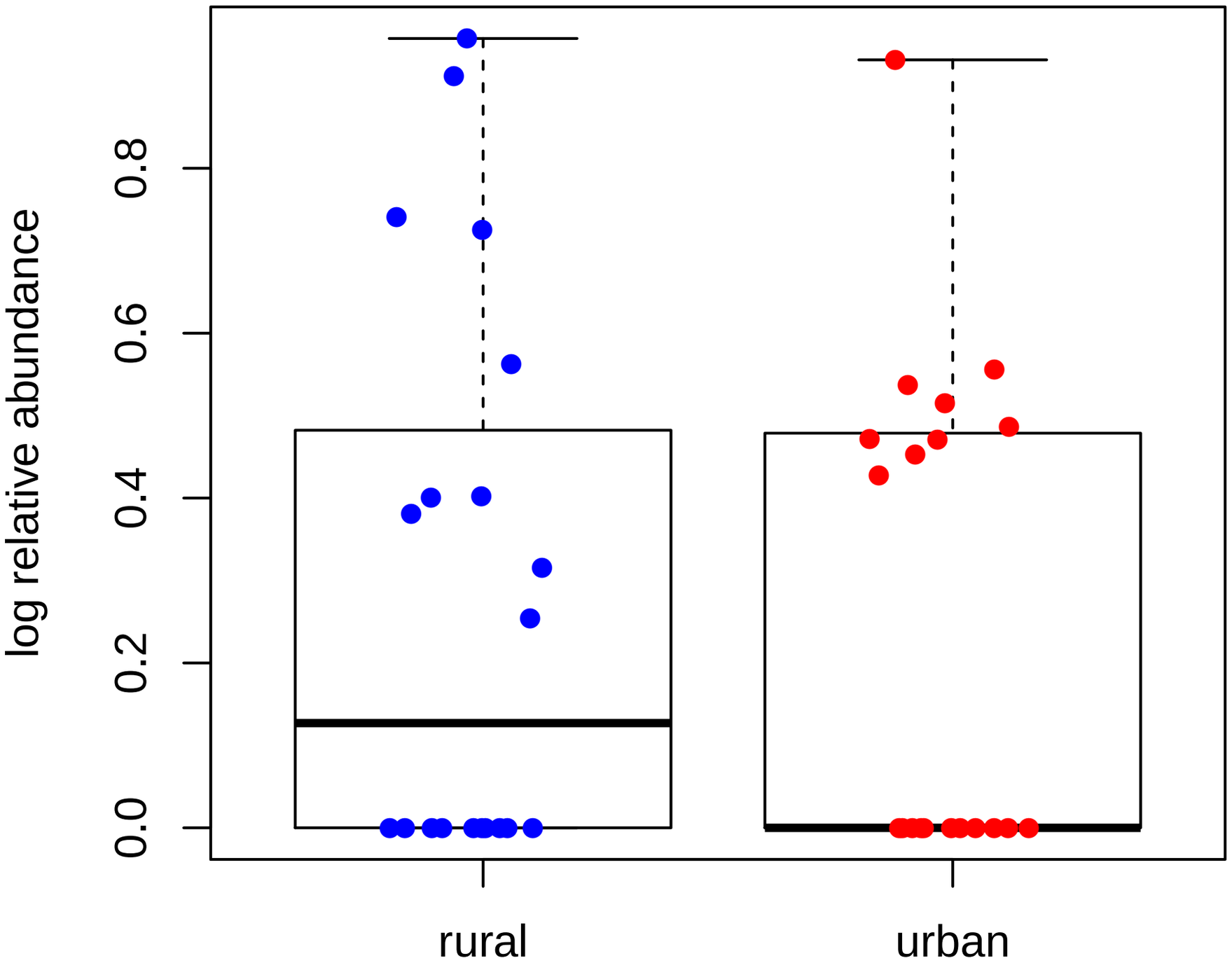

WGS species: Pseudomonas_sp._TKP
pAdjRuralUrban= 0.81
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

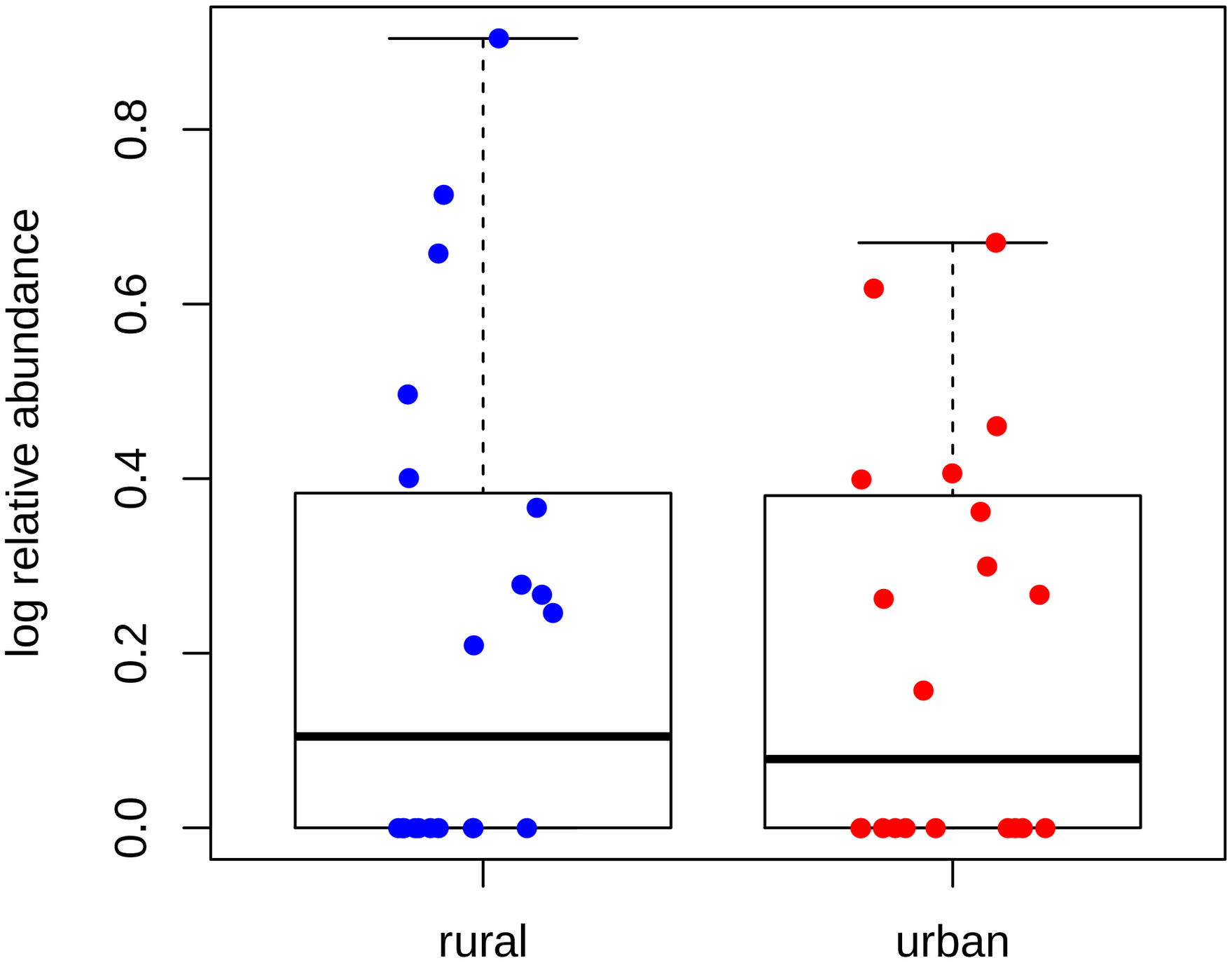

WGS species: Oceanithermus_profundus
pAdjRuralUrban= 0.81
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

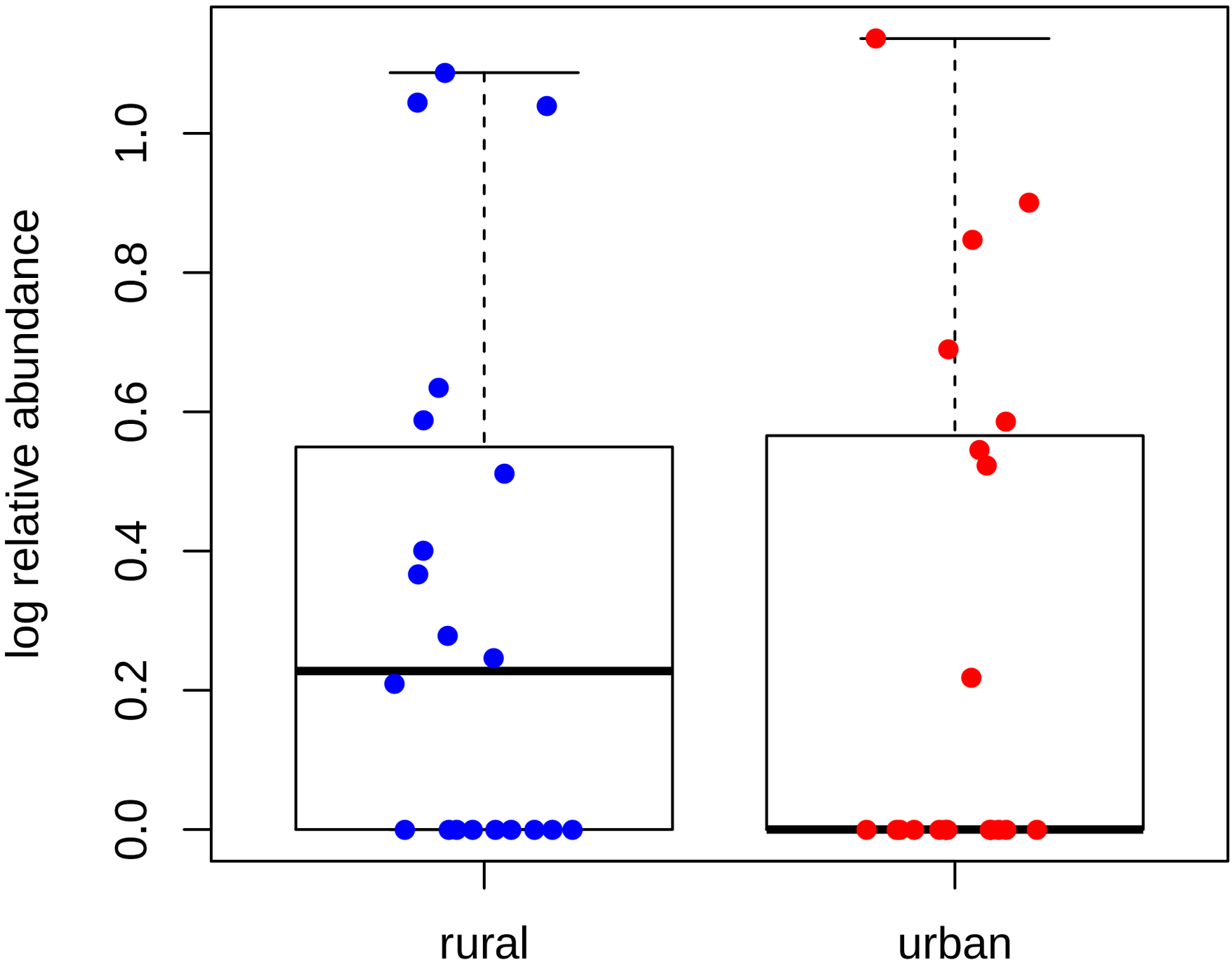

WGS species: Thermosipho_melanesiensis
pAdjRuralUrban= 0.81
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

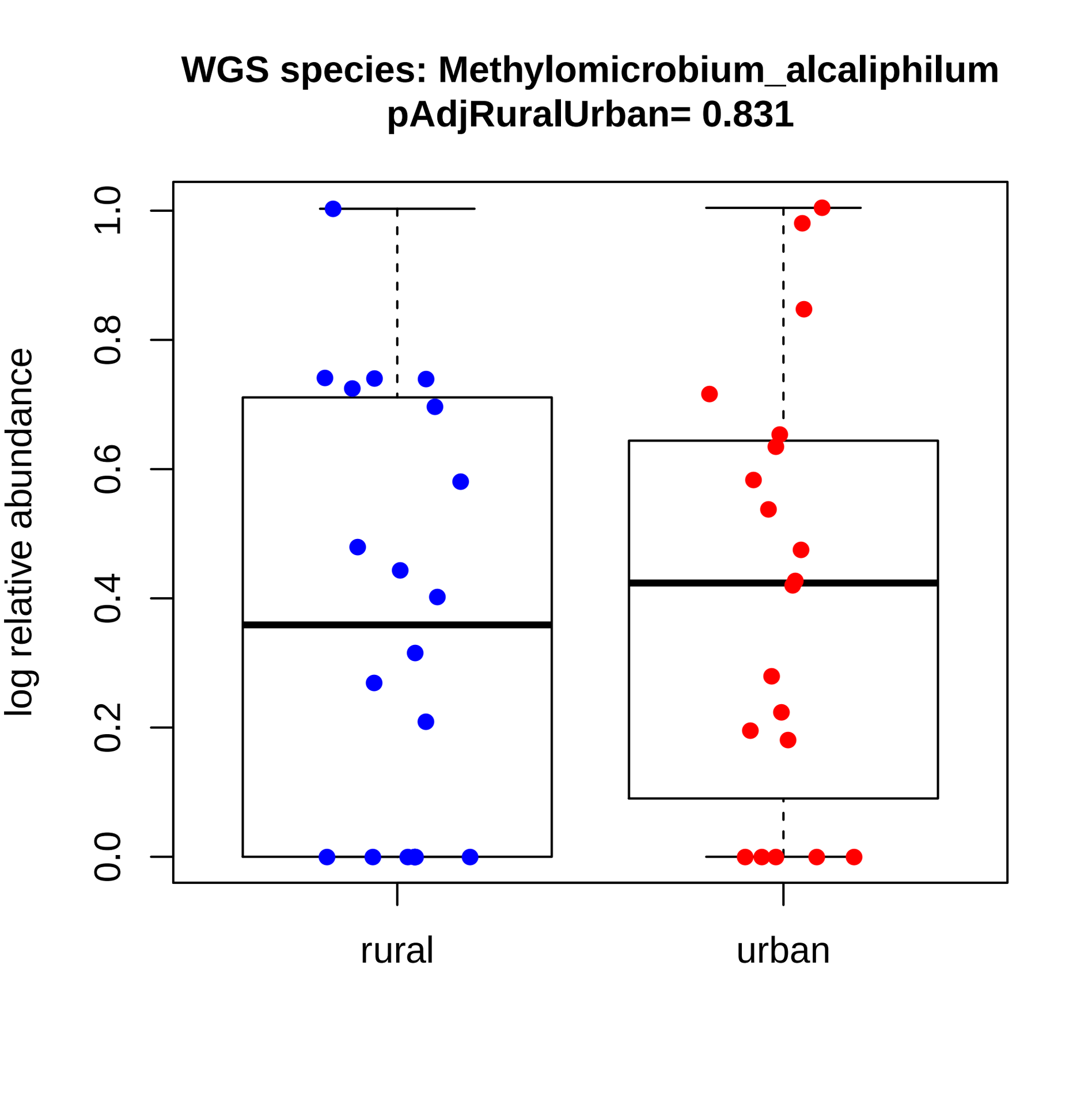

WGS species: Candidatus_Methanomethylophilus_alvus
pAdjRuralUrban= 0.819
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

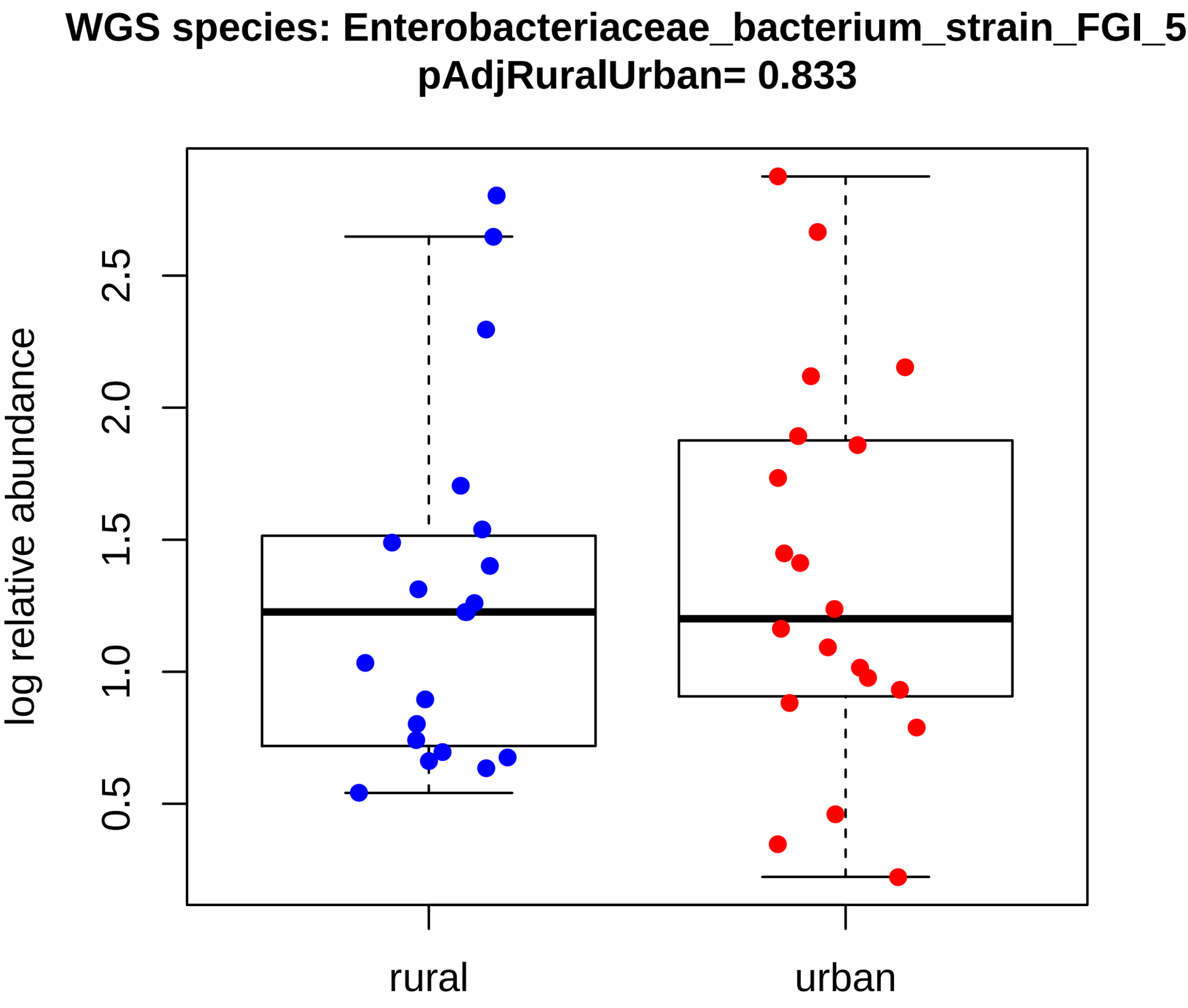

WGS species: Dickeya_dadantii
pAdjRuralUrban= 0.82
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

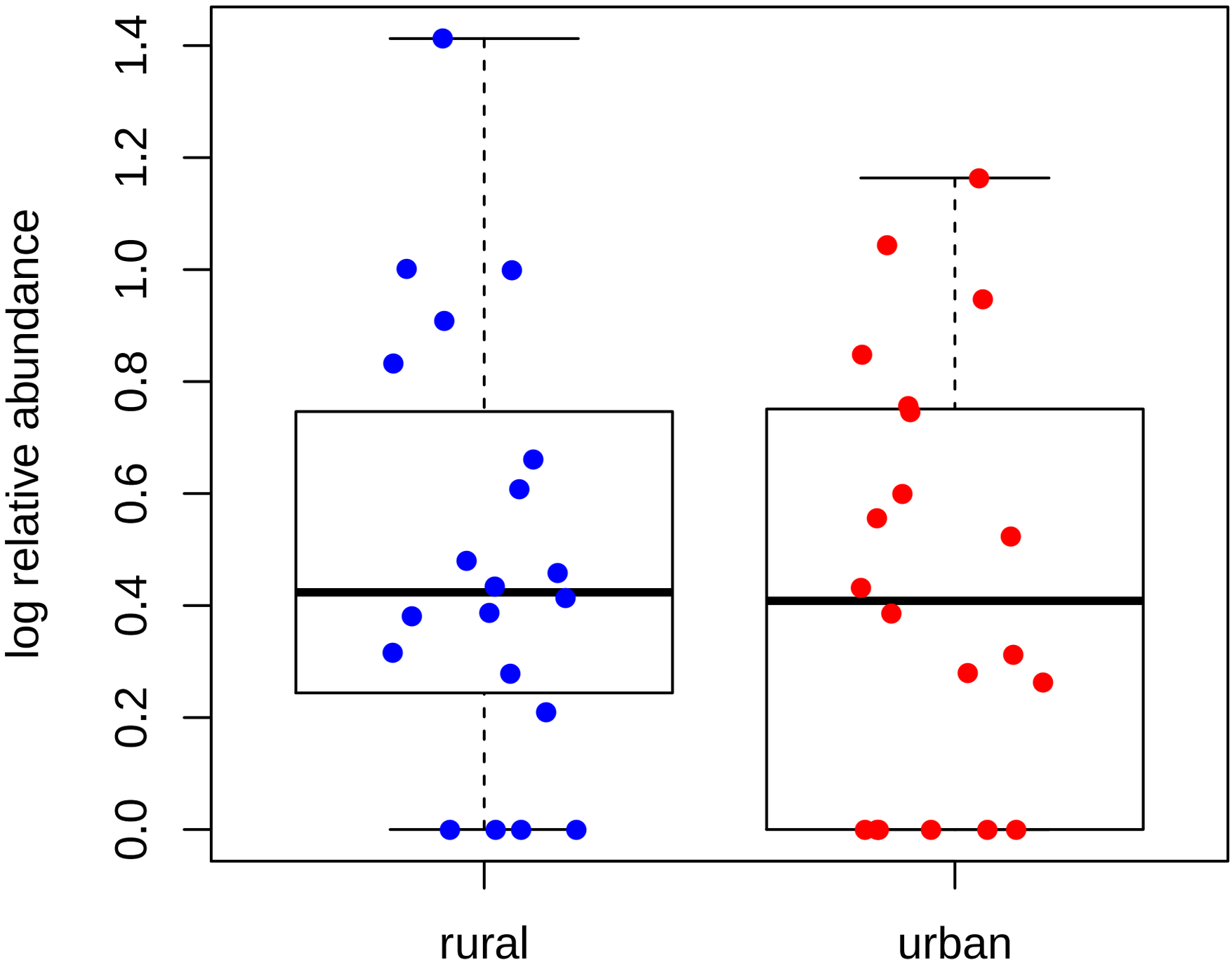

WGS species: beta_proteobacterium_CB
pAdjRuralUrban= 0.82
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

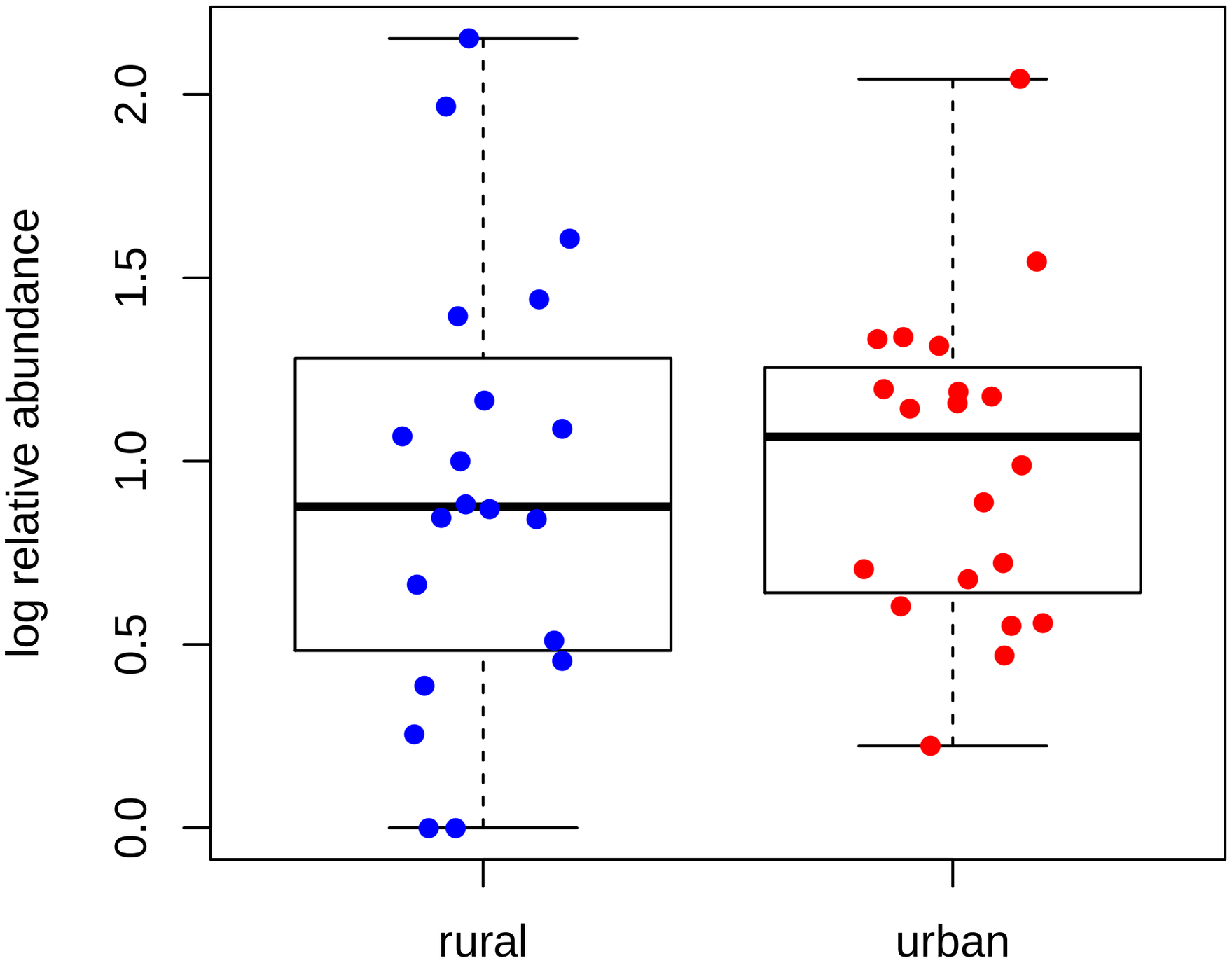

WGS species: Geobacillus_thermodenitrificans
pAdjRuralUrban= 0.821
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

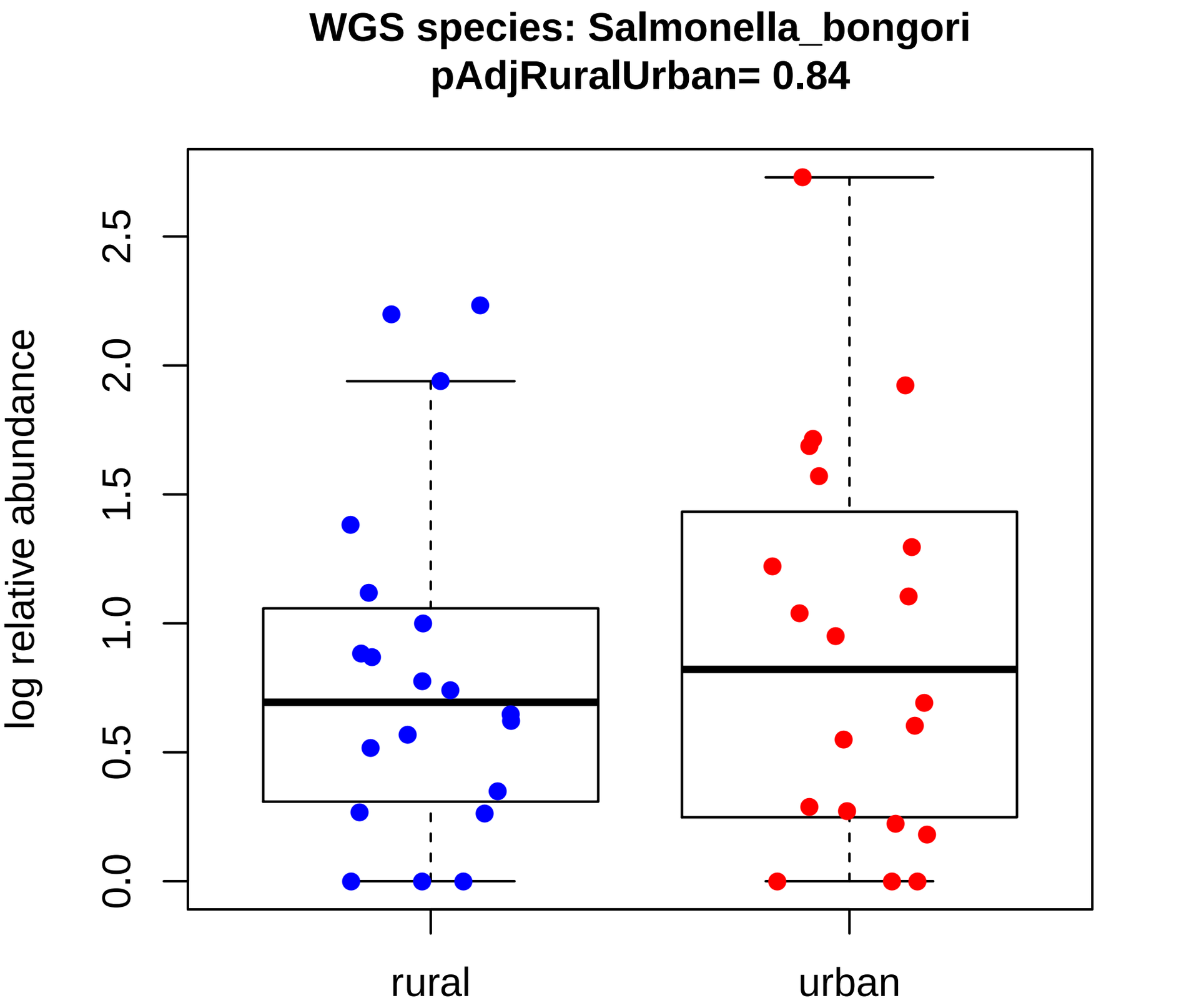

WGS species: Flexibacter_litoralis
pAdjRuralUrban= 0.822
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

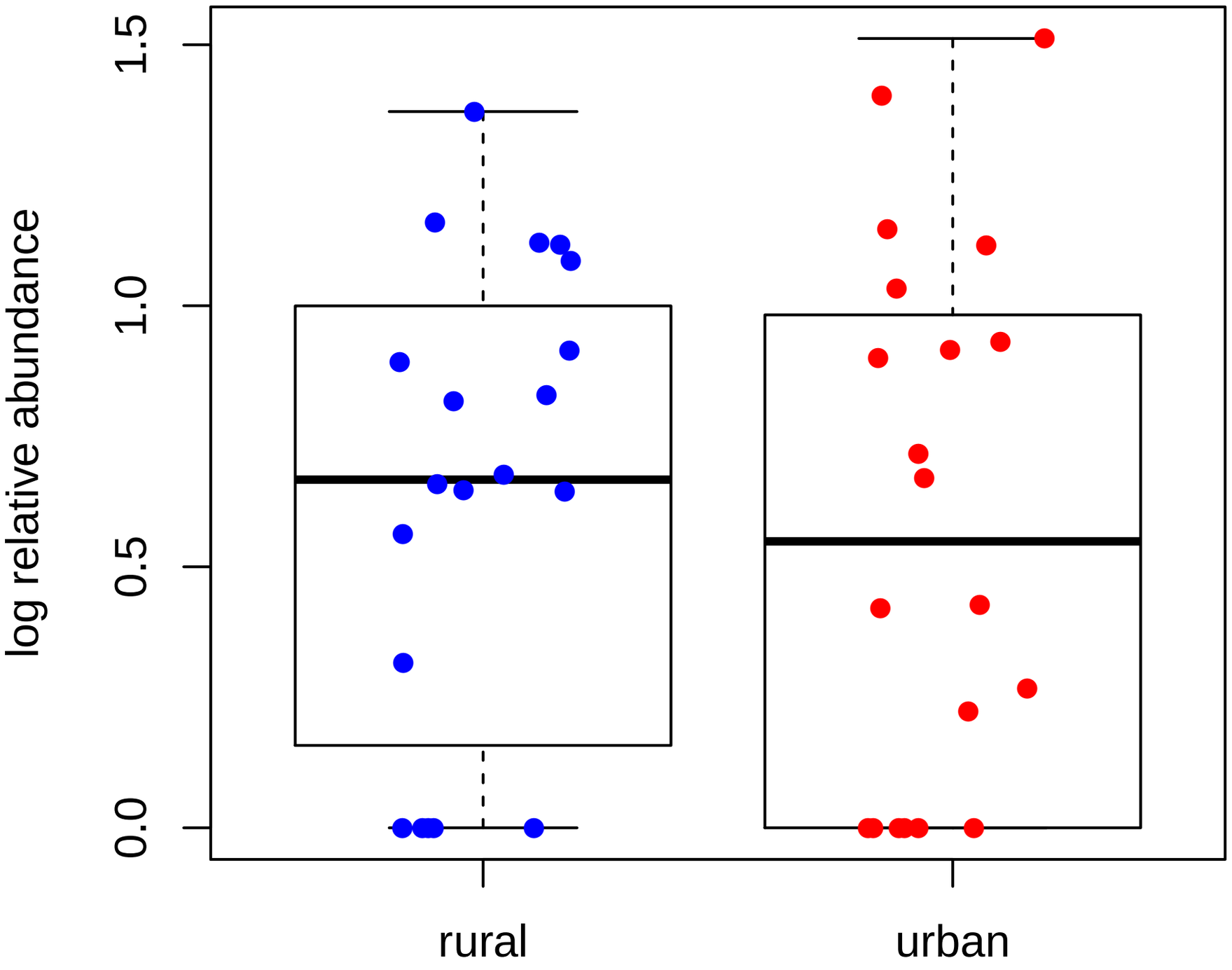

WGS species: Methylomicrobium_alcaliphilum
pAdjRuralUrban= 0.831
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

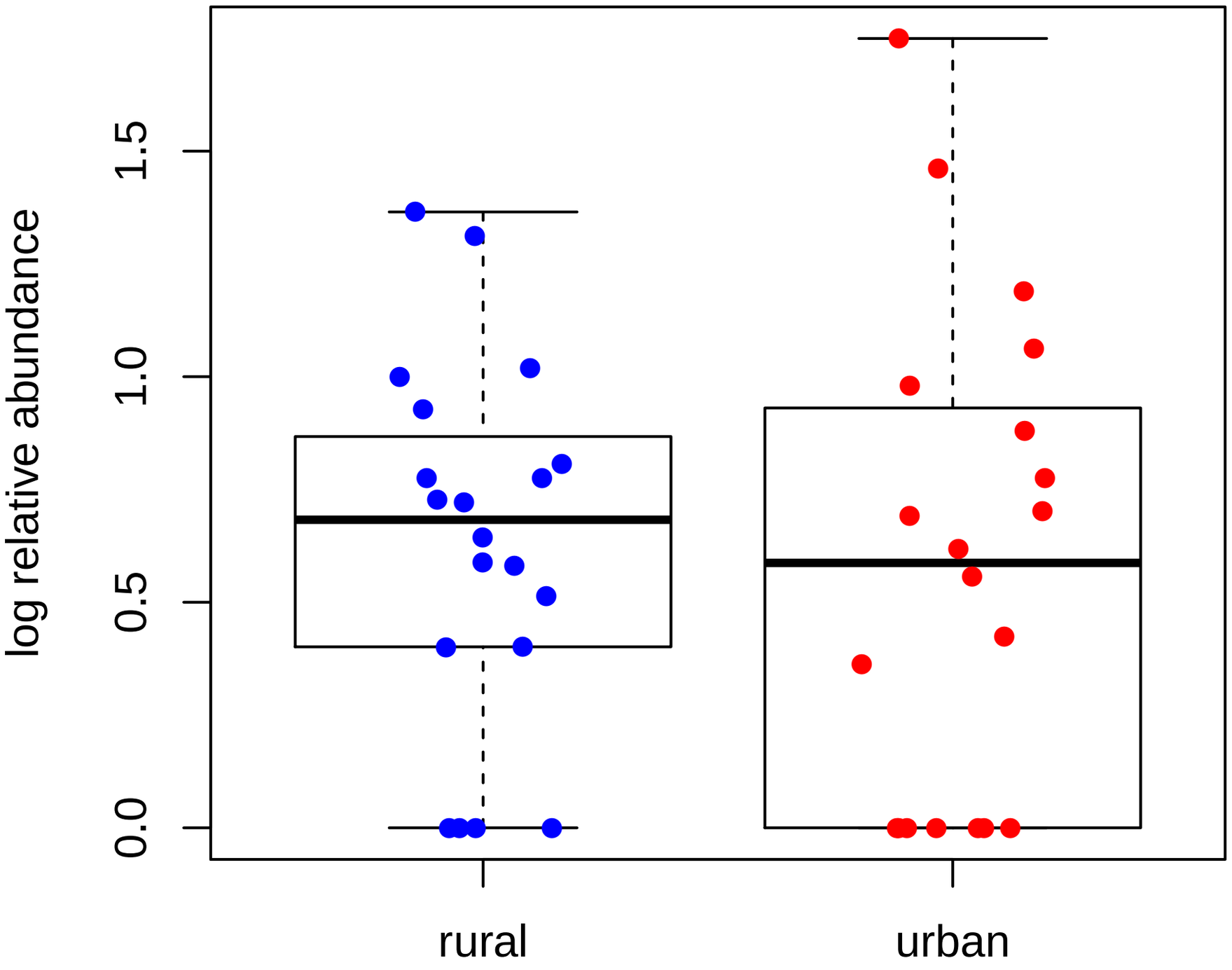

WGS species: Enterobacteriaceae_bacterium_strain_FGI_5
pAdjRuralUrban= 0.833
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

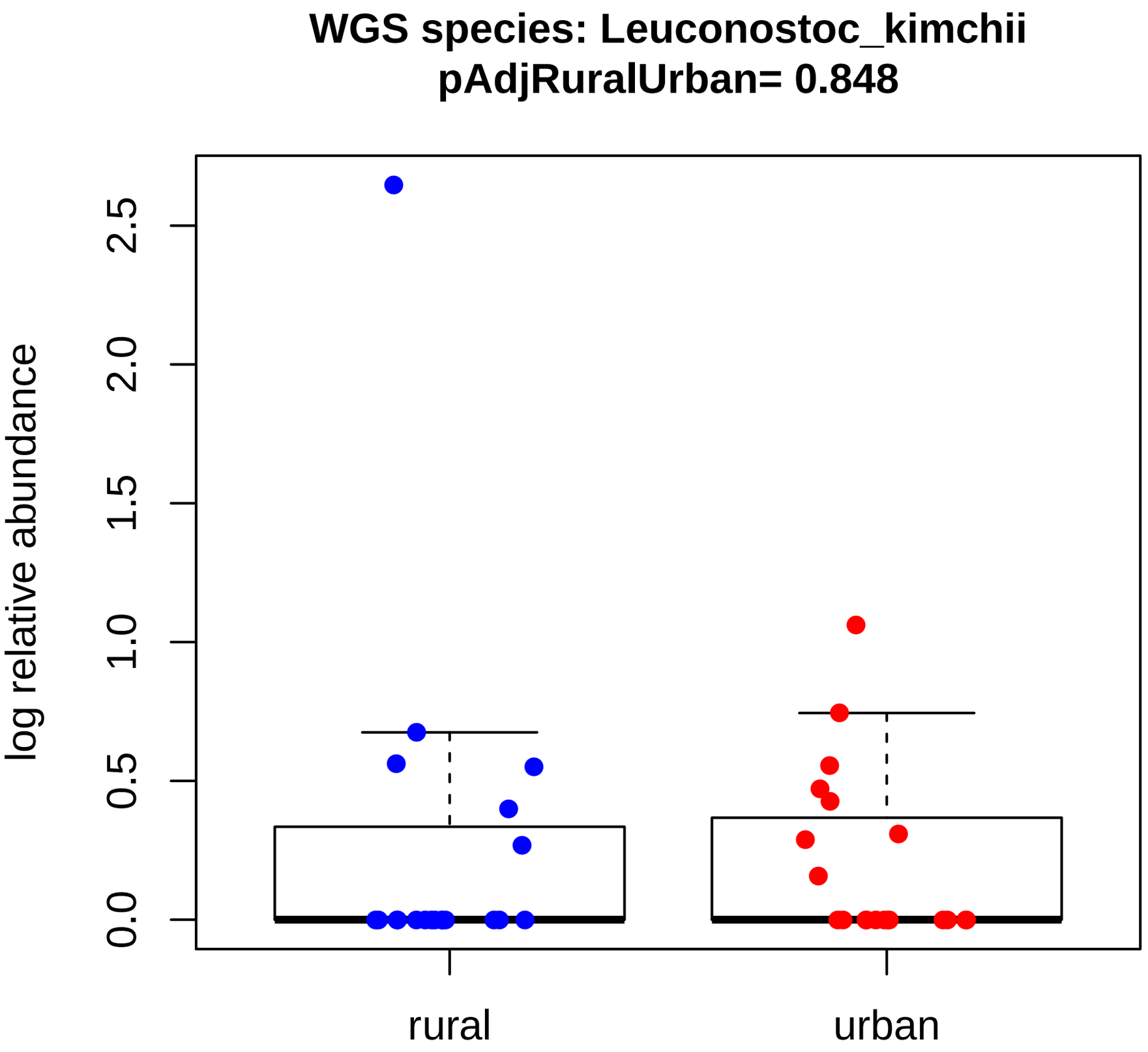

WGS species: Roseiflexus_sp._RS.1
pAdjRuralUrban= 0.835
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

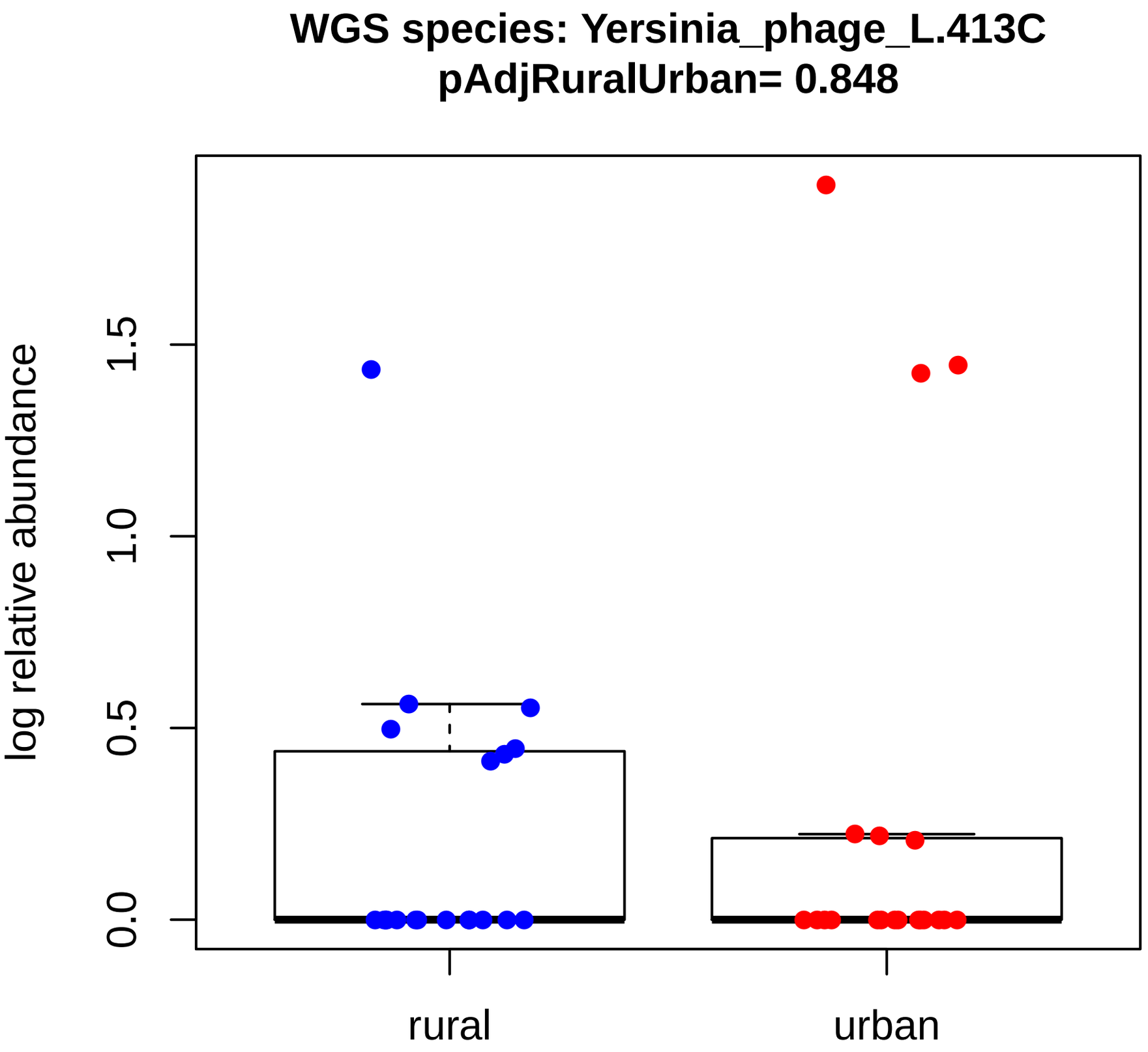

WGS species: Erwinia_billingiae
pAdjRuralUrban= 0.836
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

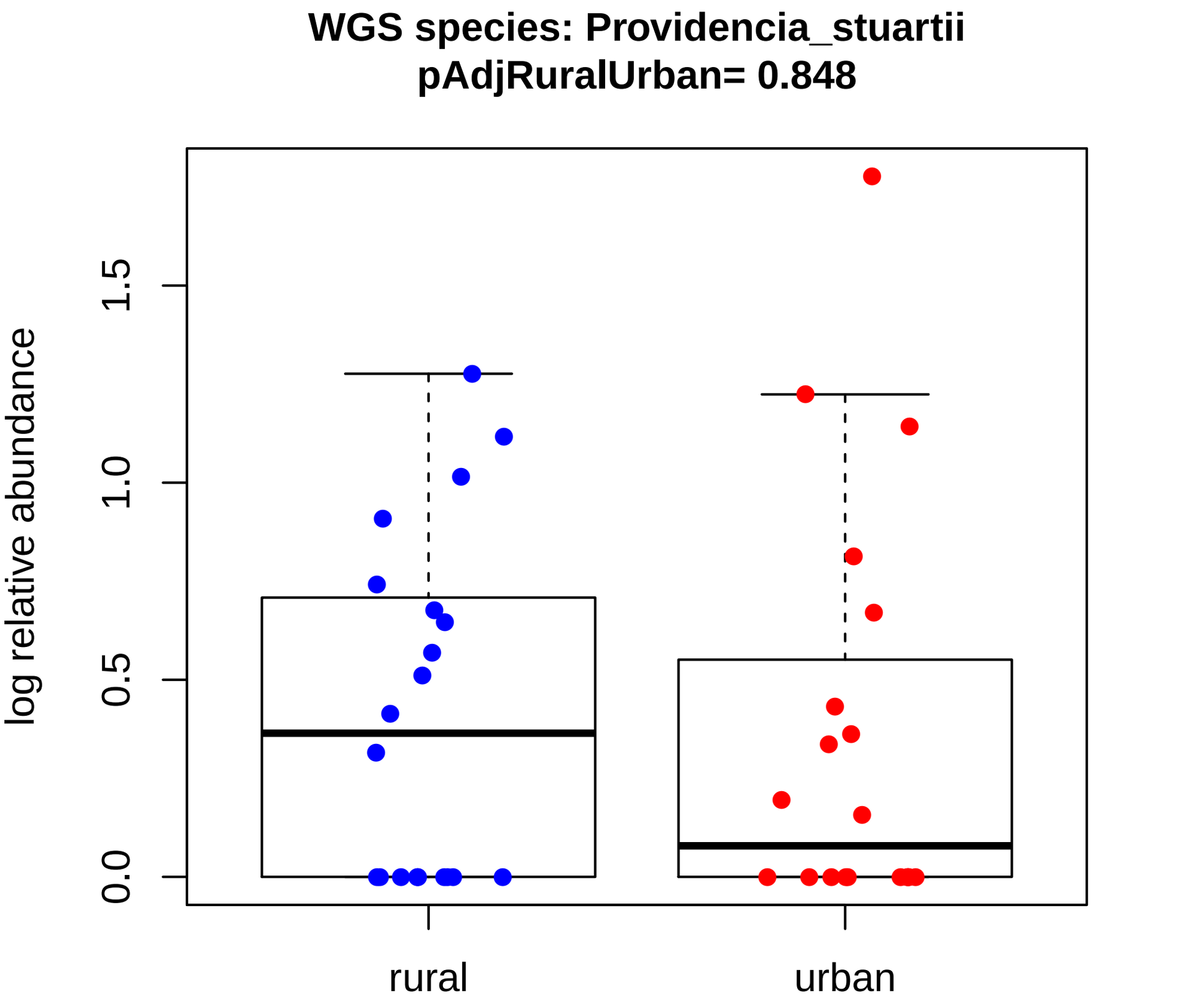

WGS species: Salmonella_bongori
pAdjRuralUrban= 0.84
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

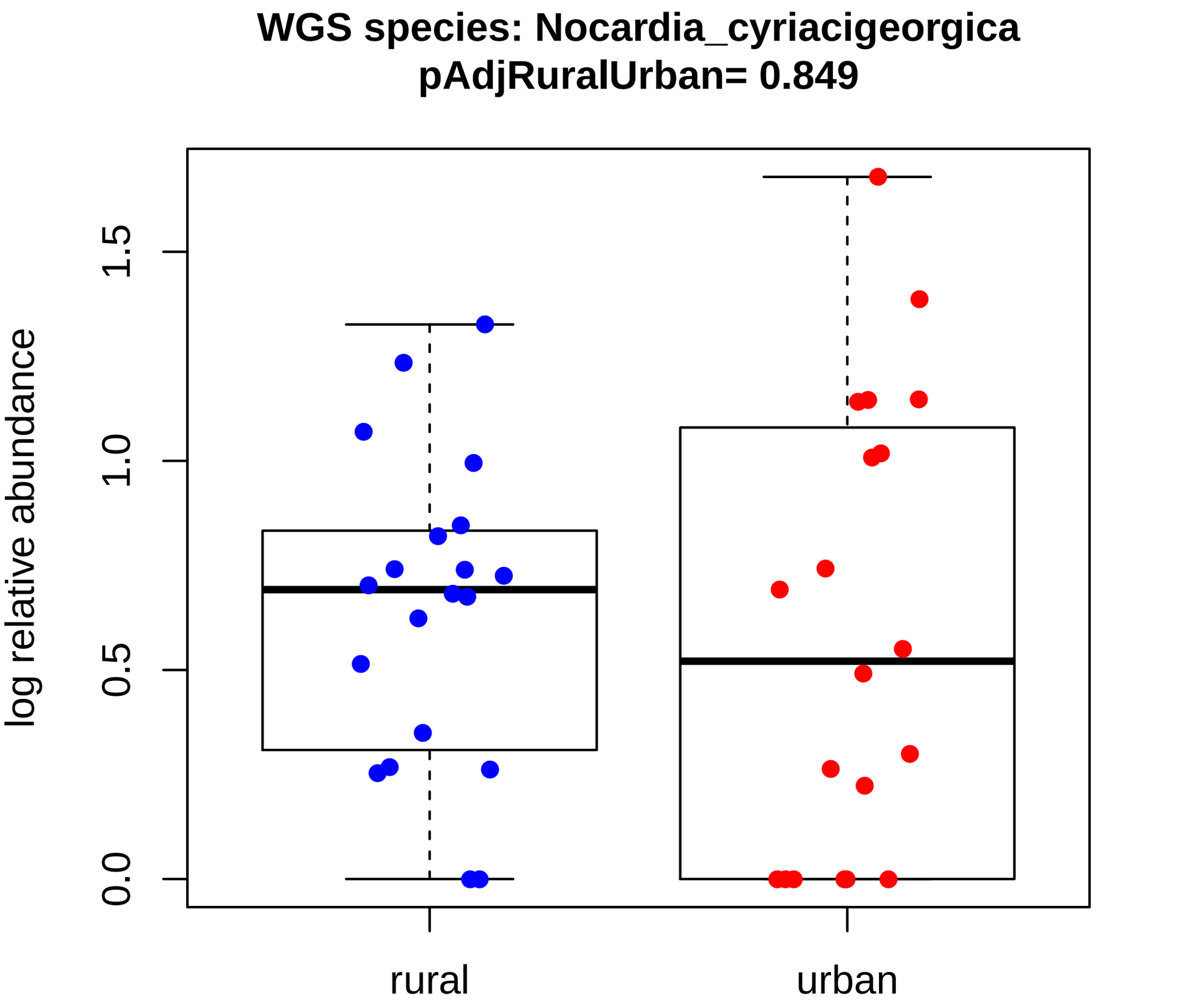

WGS species: Synechococcus_sp._JA.3.3Ab
pAdjRuralUrban= 0.84
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

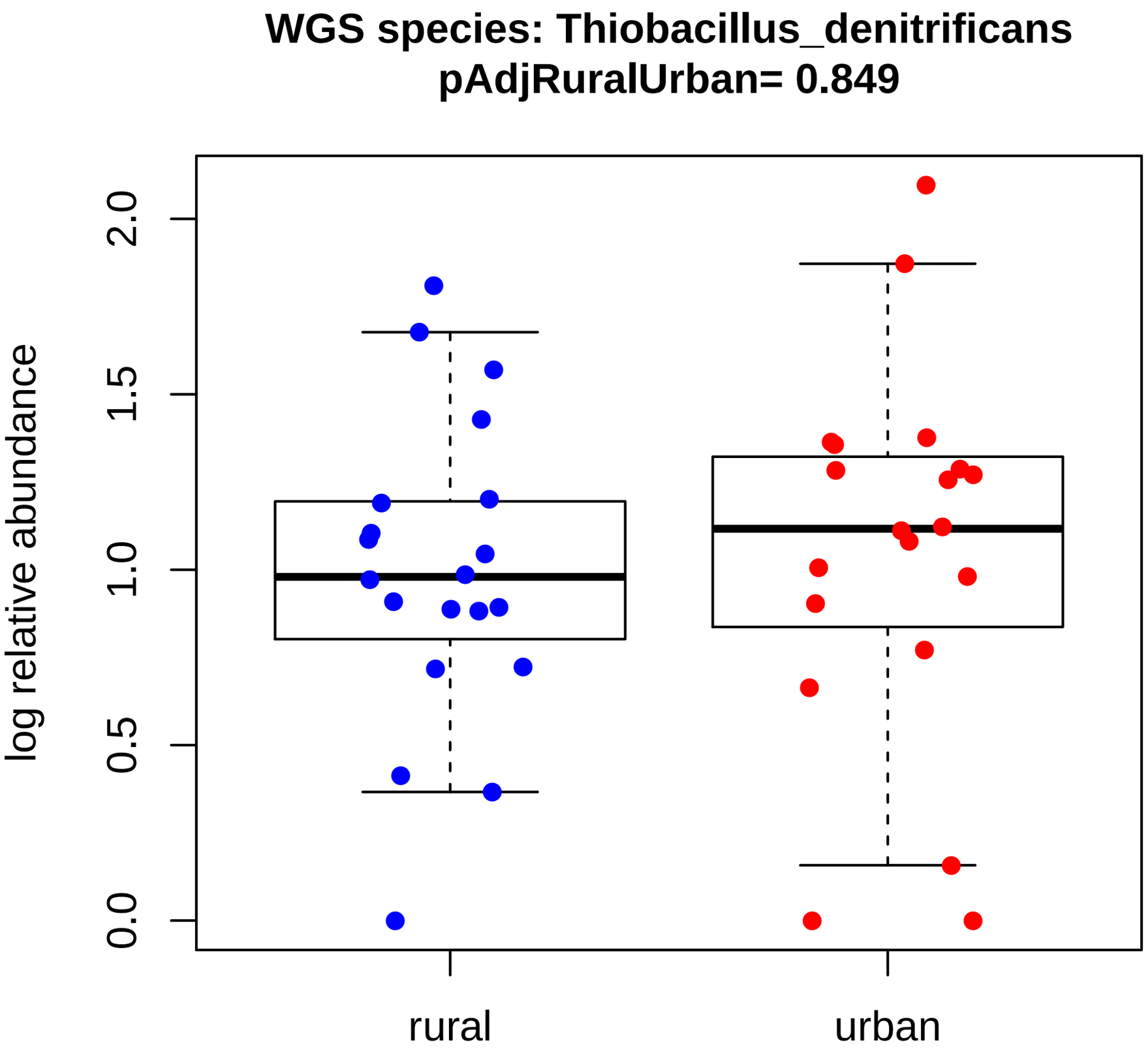

WGS species: Vibrio_parahaemolyticus
pAdjRuralUrban= 0.844
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

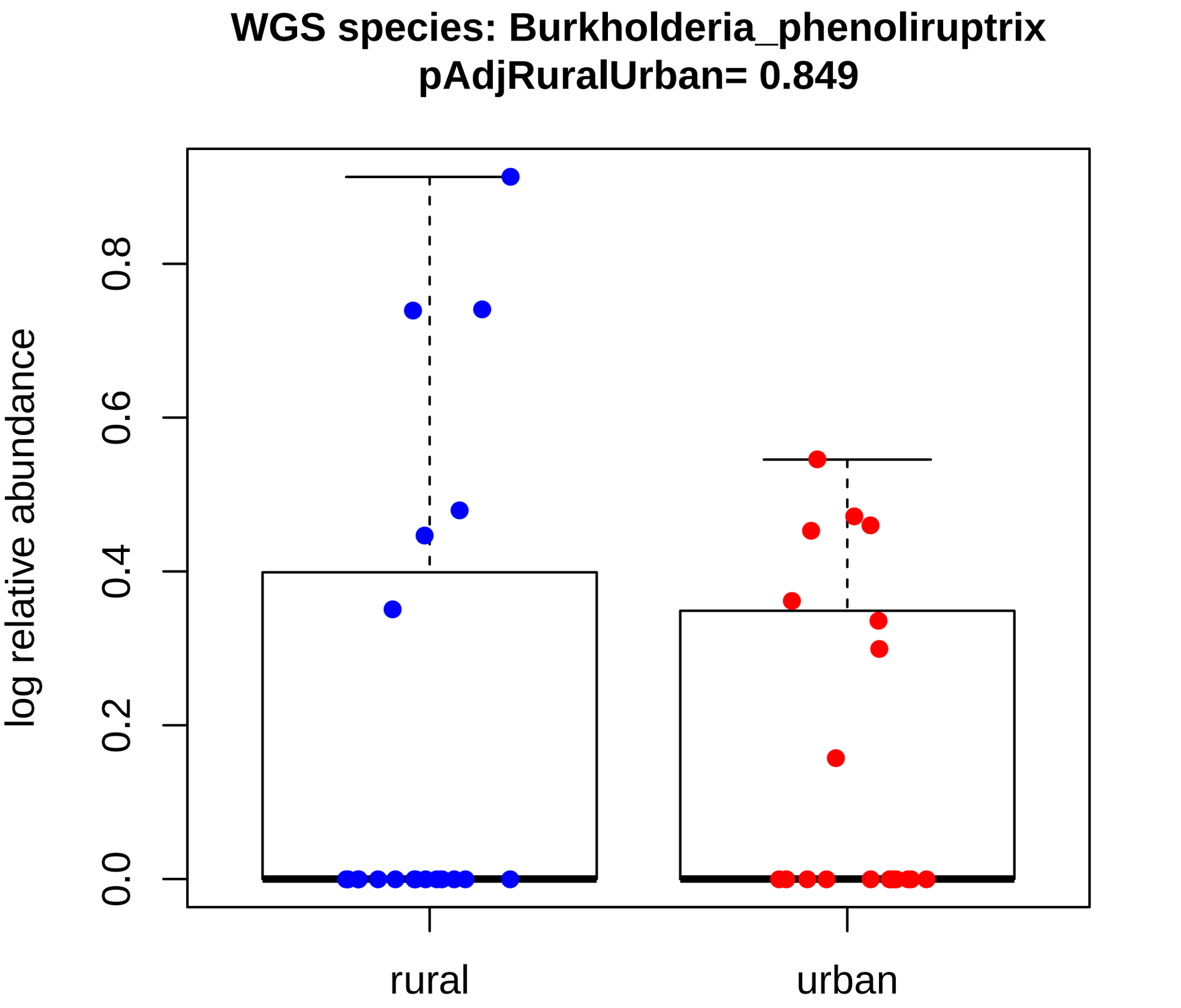

WGS species: Leuconostoc_kimchii
pAdjRuralUrban= 0.848
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

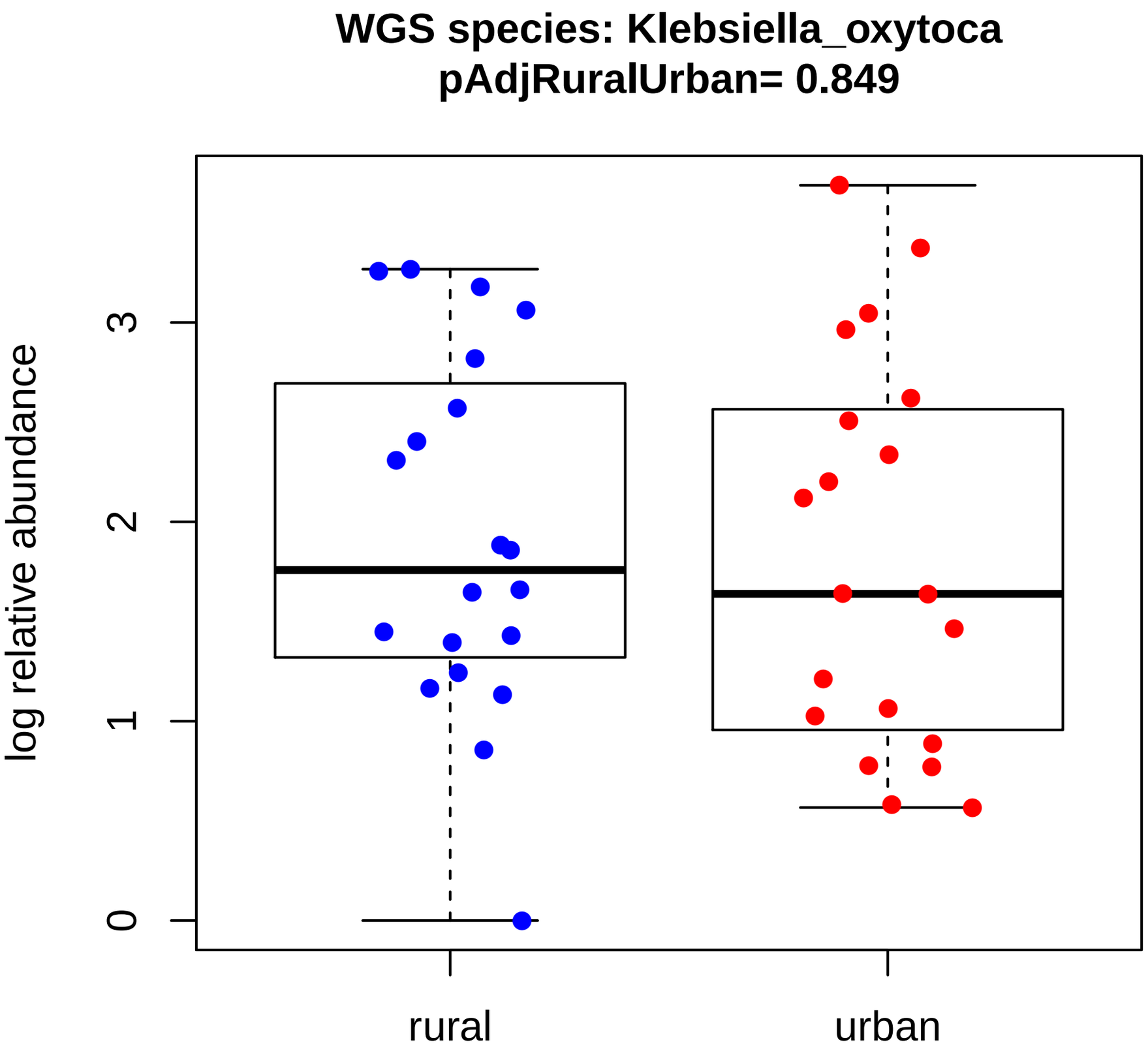

WGS species: Yersinia_phage_L.413C
pAdjRuralUrban= 0.848
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

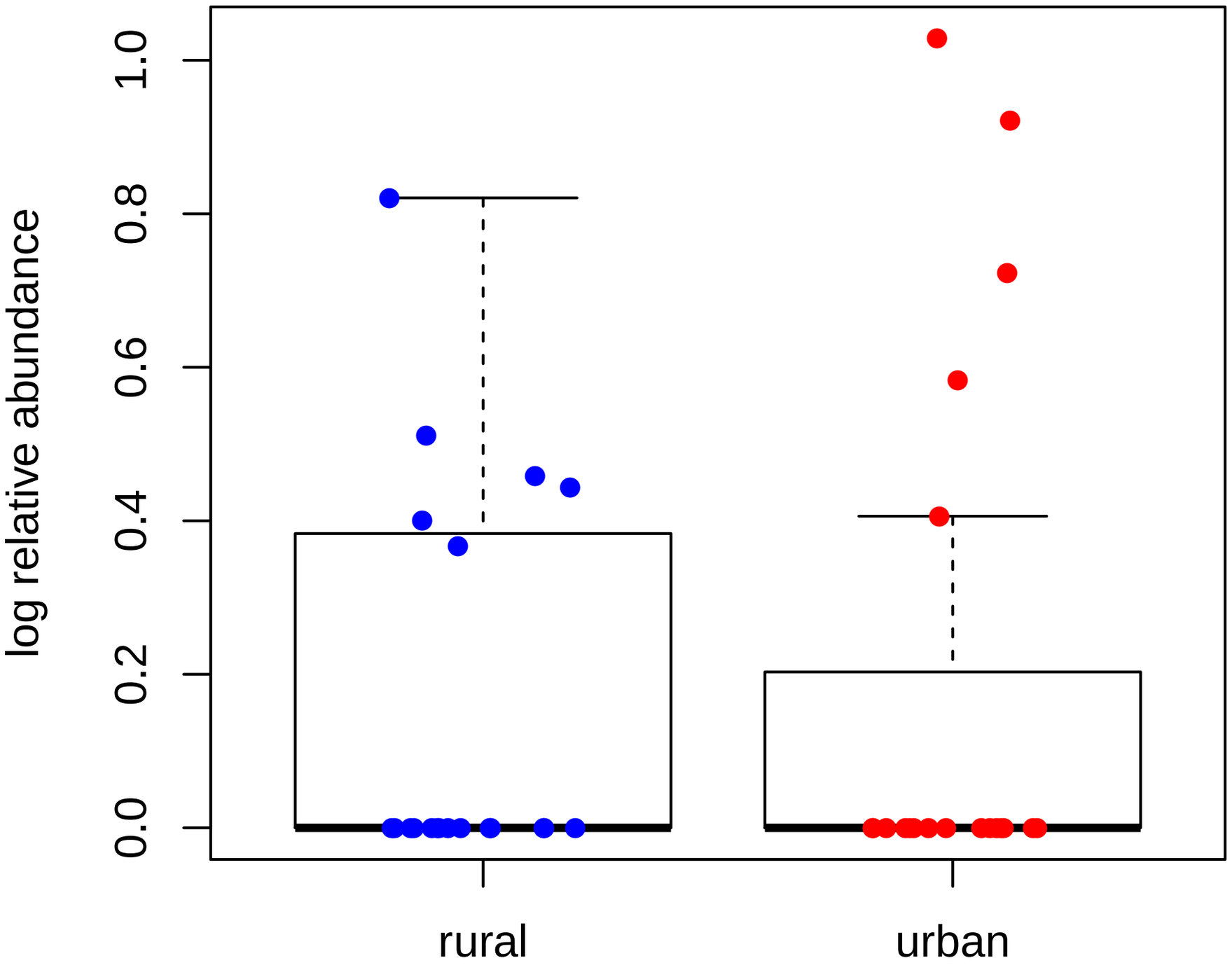

WGS species: Providencia_stuartii
pAdjRuralUrban= 0.848
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

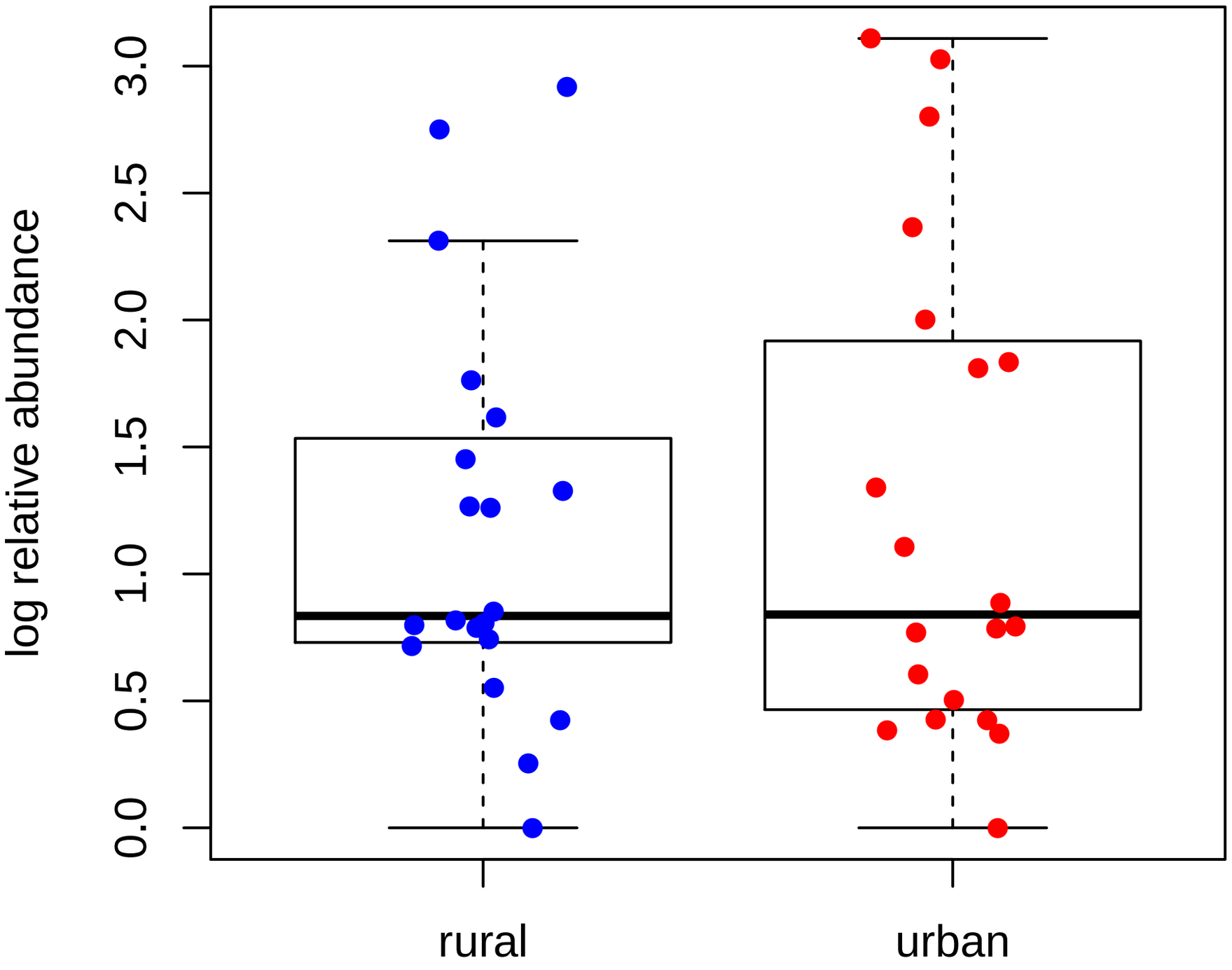

WGS species: Nocardia_cyriacigeorgica
pAdjRuralUrban= 0.849
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

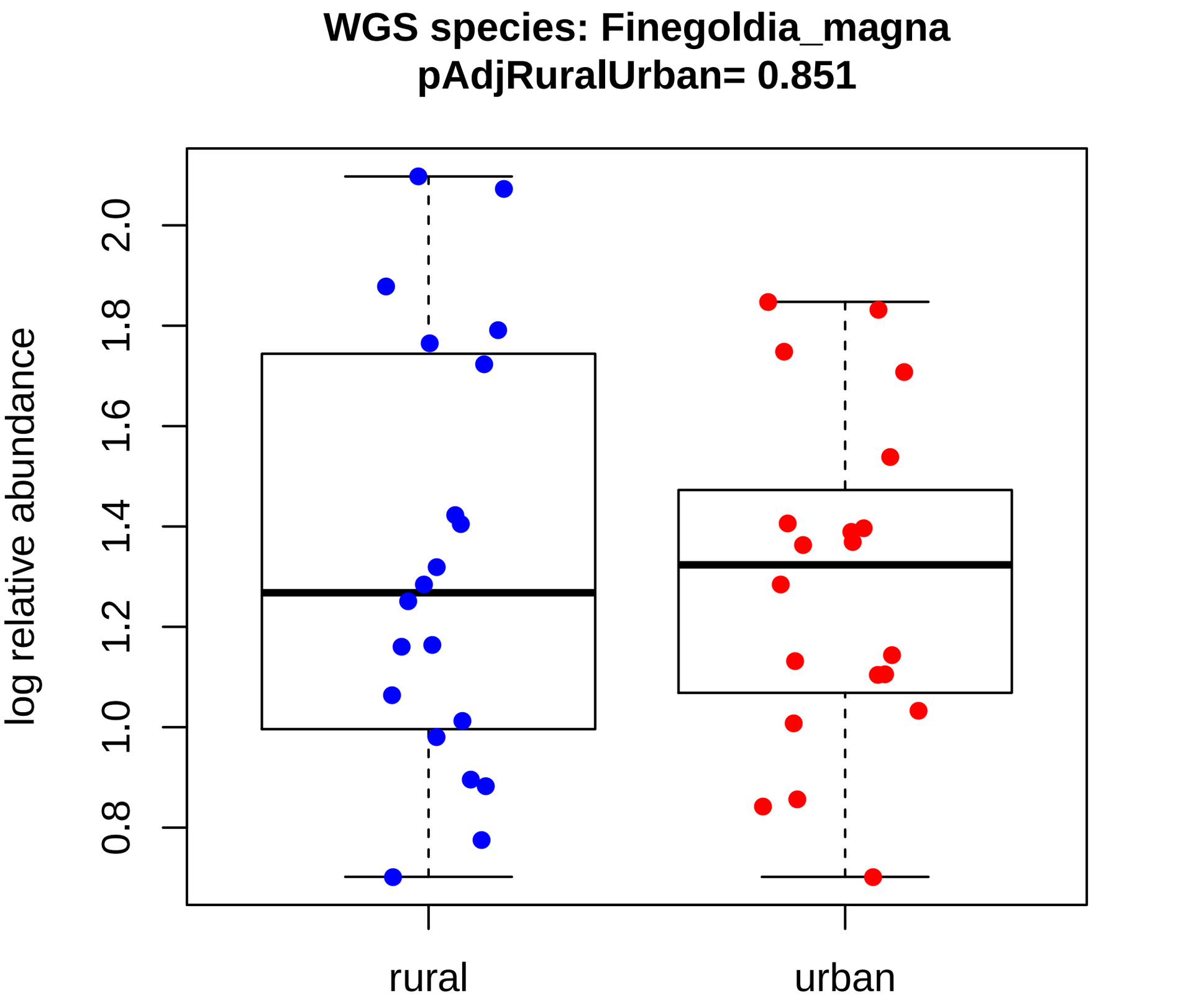

WGS species: Thiobacillus_denitrificans
pAdjRuralUrban= 0.849
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

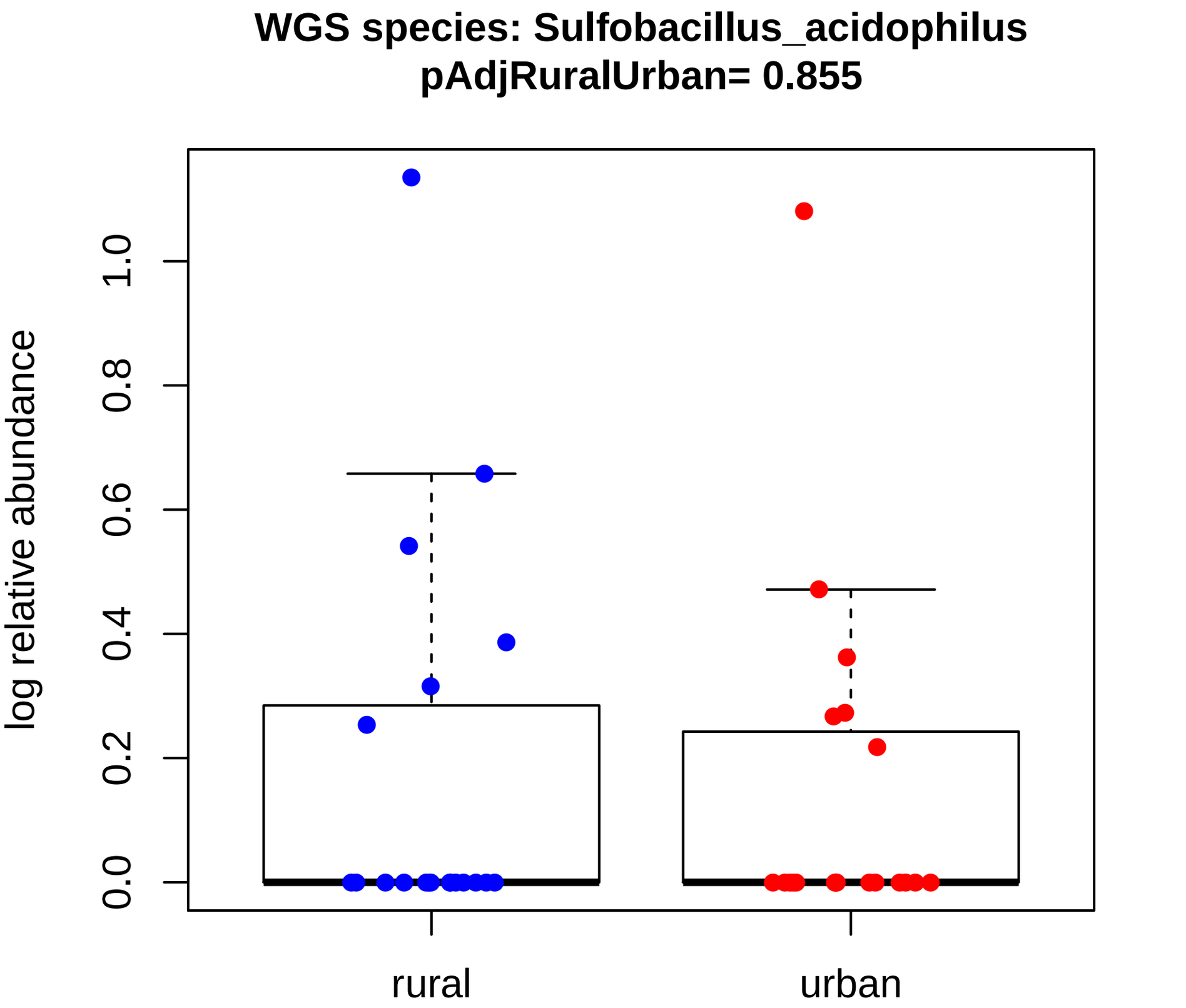

WGS species: Burkholderia_phenoliruptrix
pAdjRuralUrban= 0.849
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

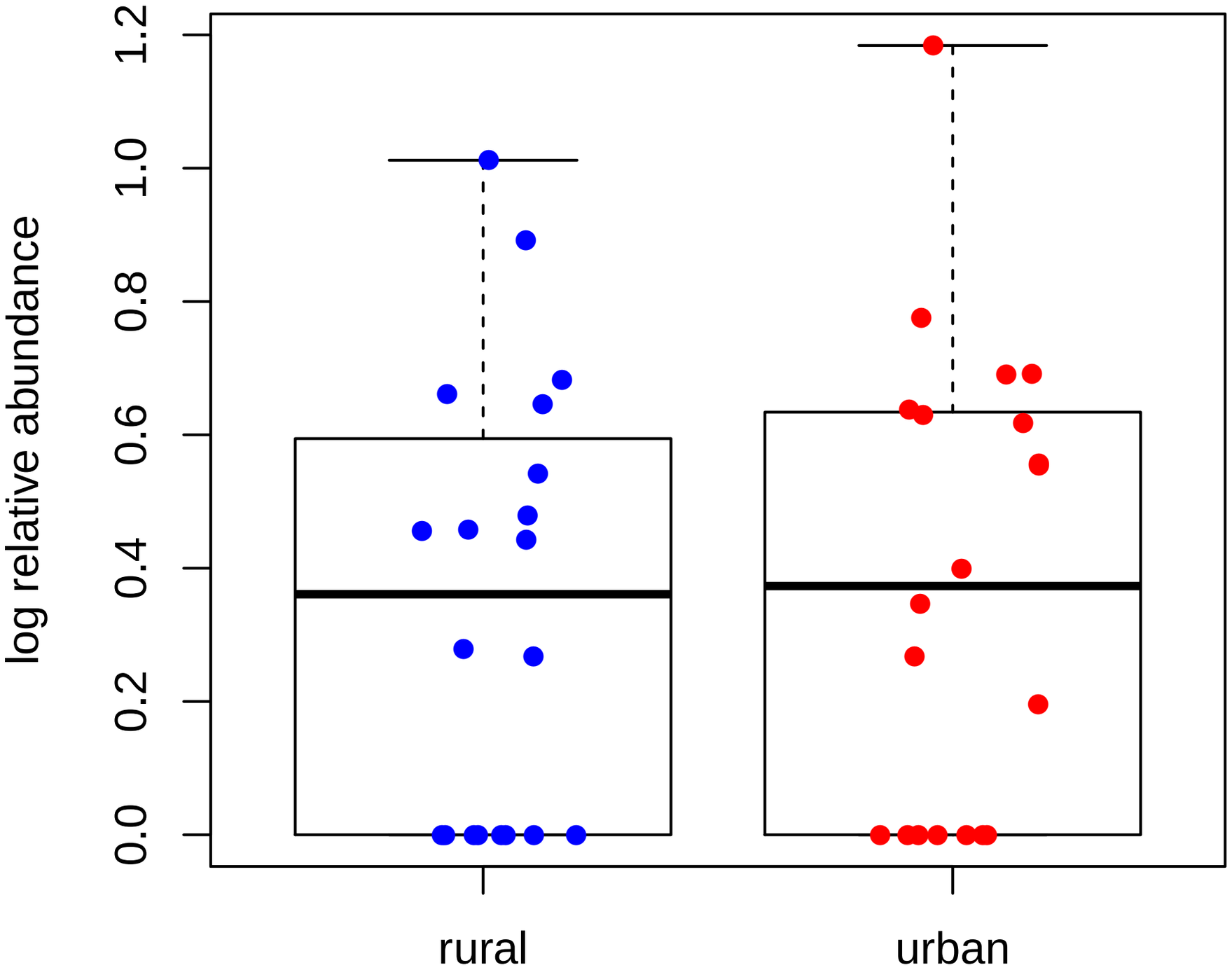

WGS species: Klebsiella_oxytoca
pAdjRuralUrban= 0.849
log relative abundance
0
1
2
3
rural
urban

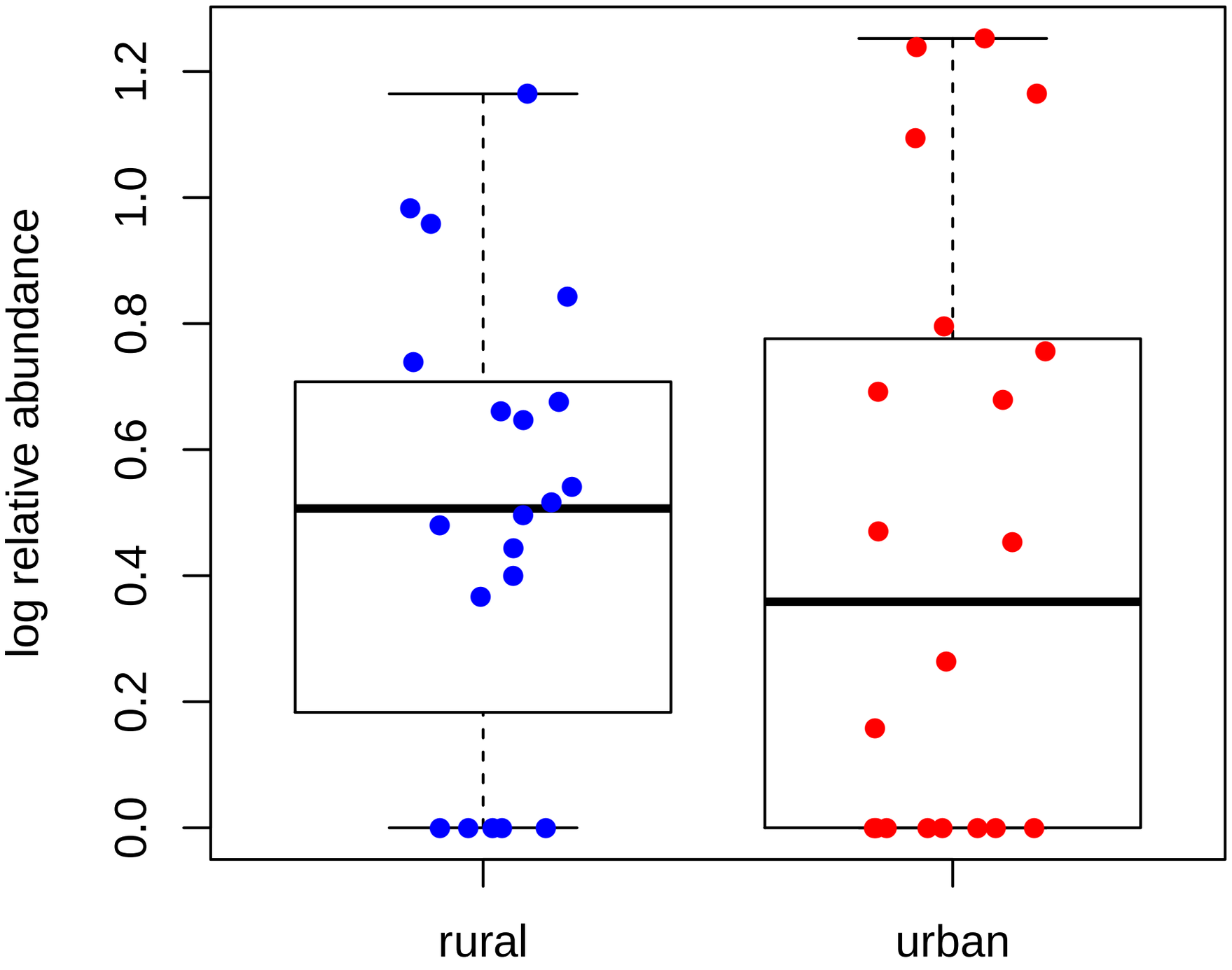

WGS species: Methanosalsum_zhilinae
pAdjRuralUrban= 0.851
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

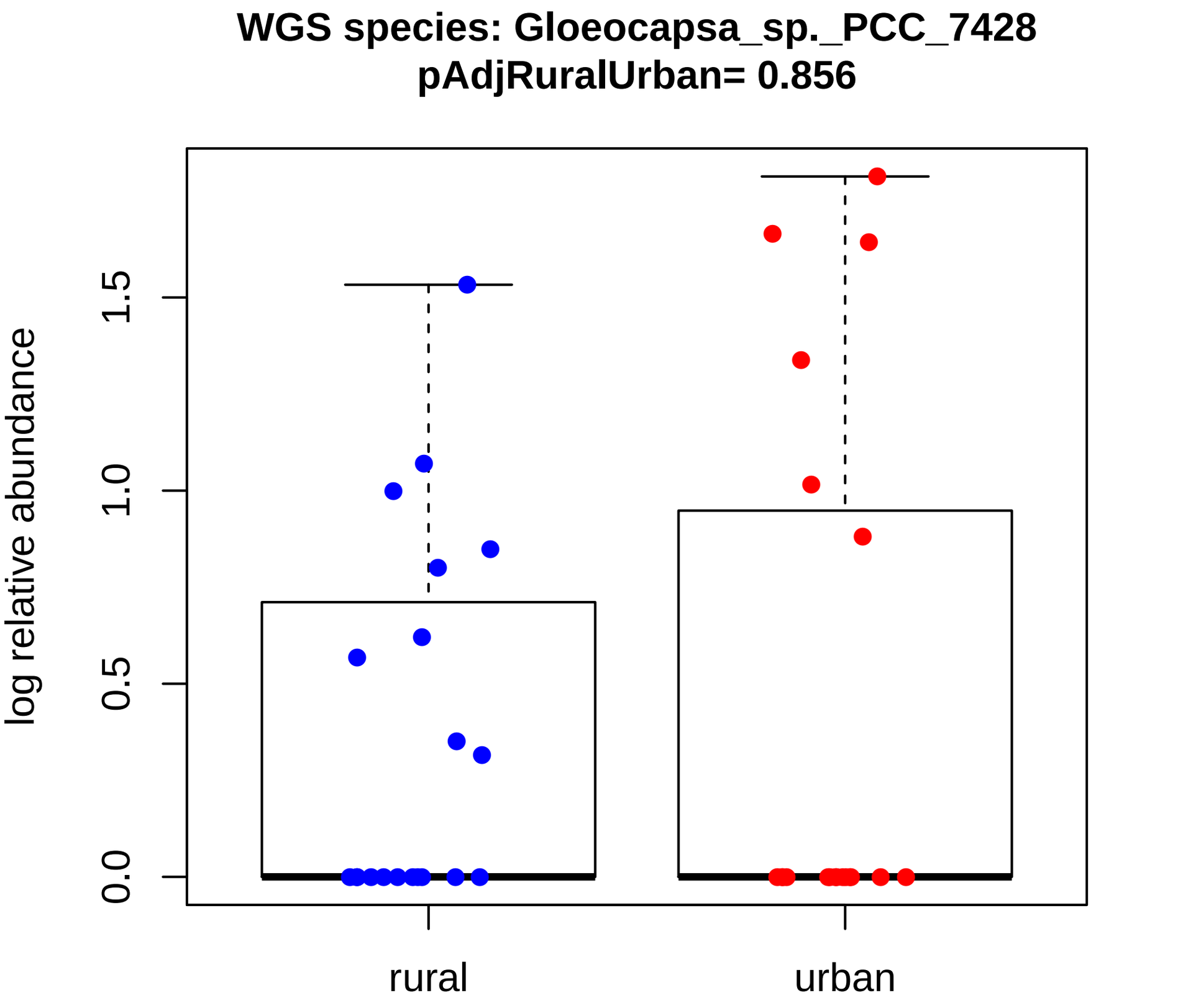

WGS species: Enterobacter_lignolyticus
pAdjRuralUrban= 0.851
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

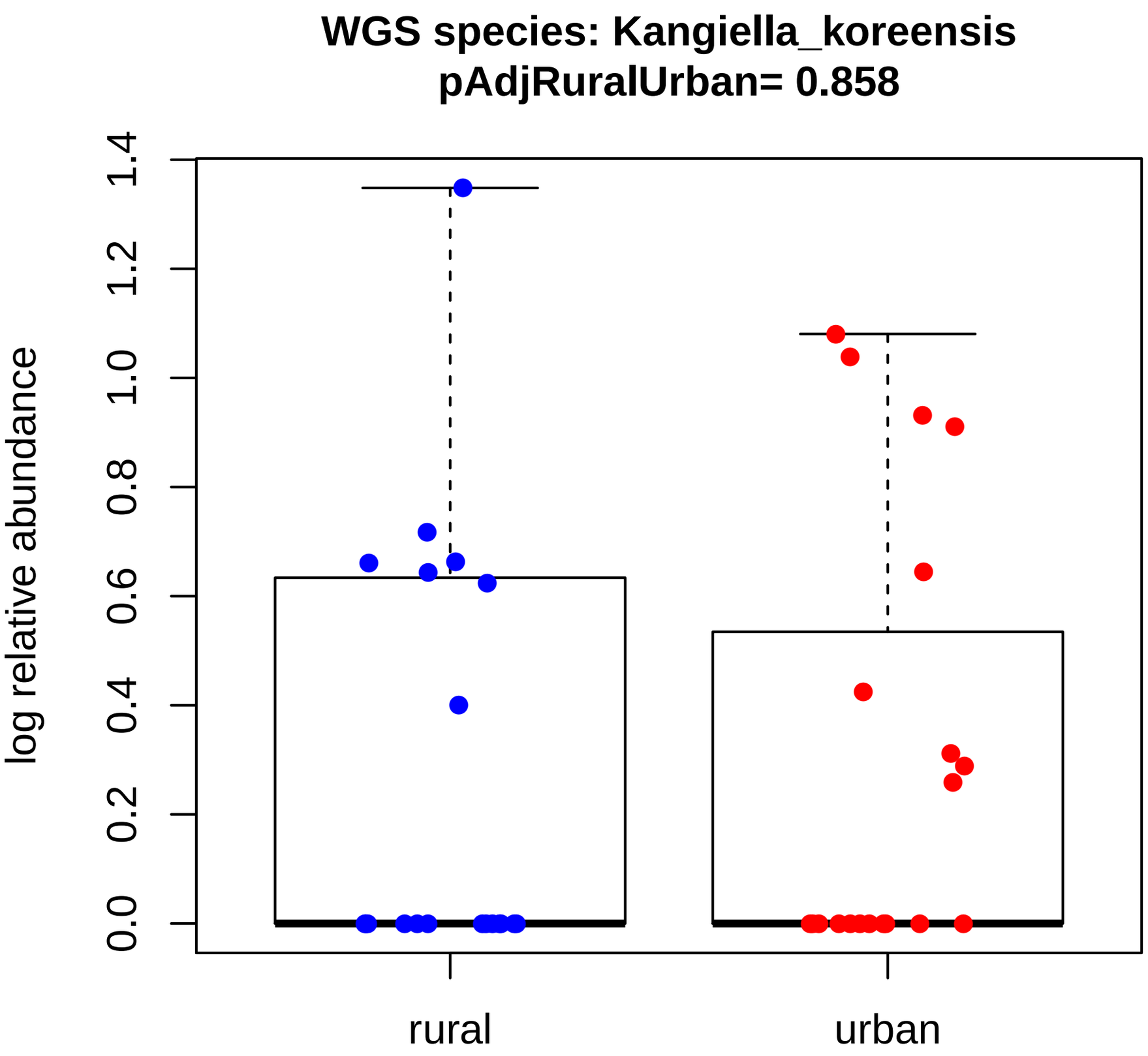

WGS species: Finegoldia_magna
pAdjRuralUrban= 0.851
log relative abundance
0.8
1.0
1.2
1.4
1.6
1.8
2.0
rural
urban

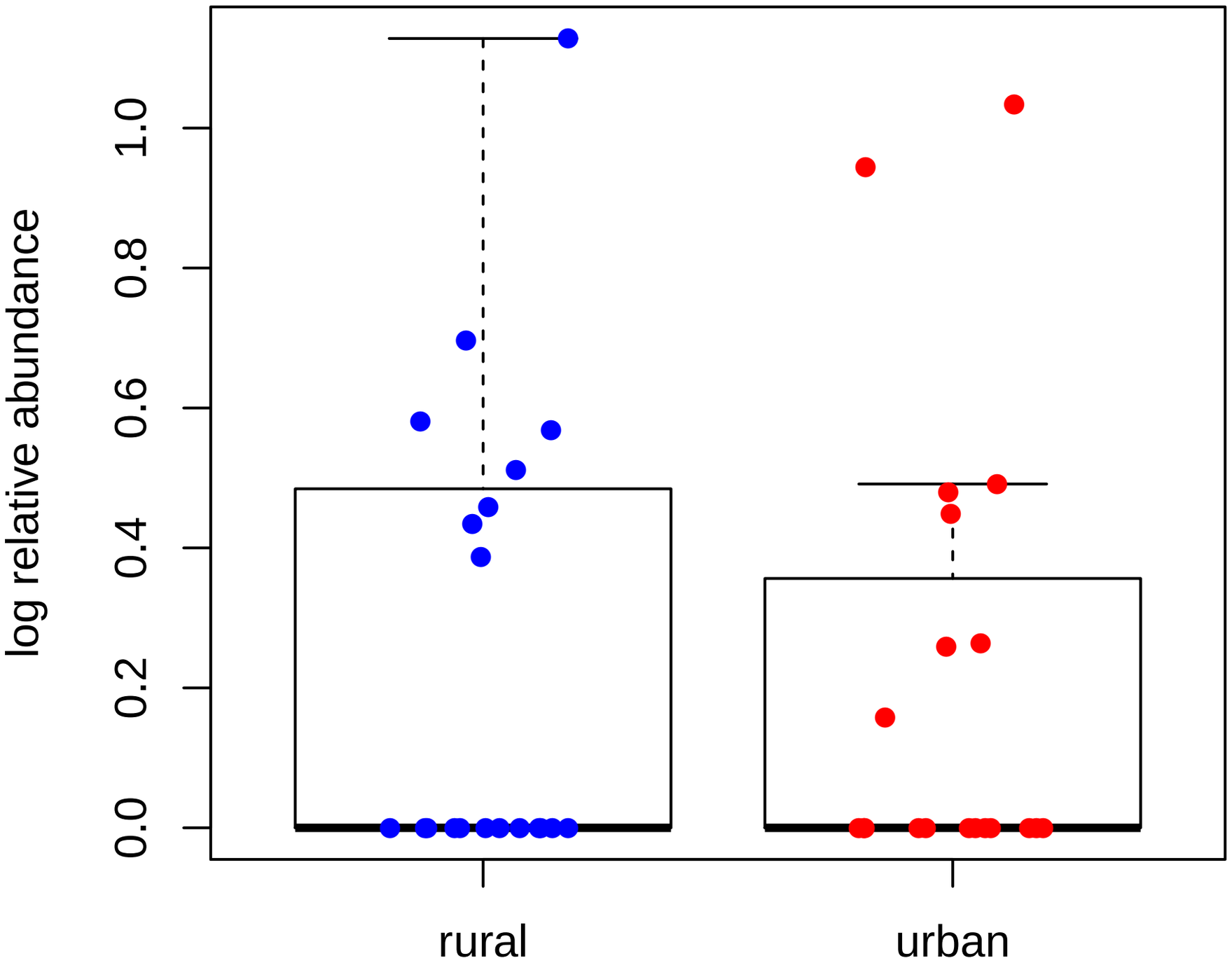

WGS species: Sulfobacillus_acidophilus
pAdjRuralUrban= 0.855
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

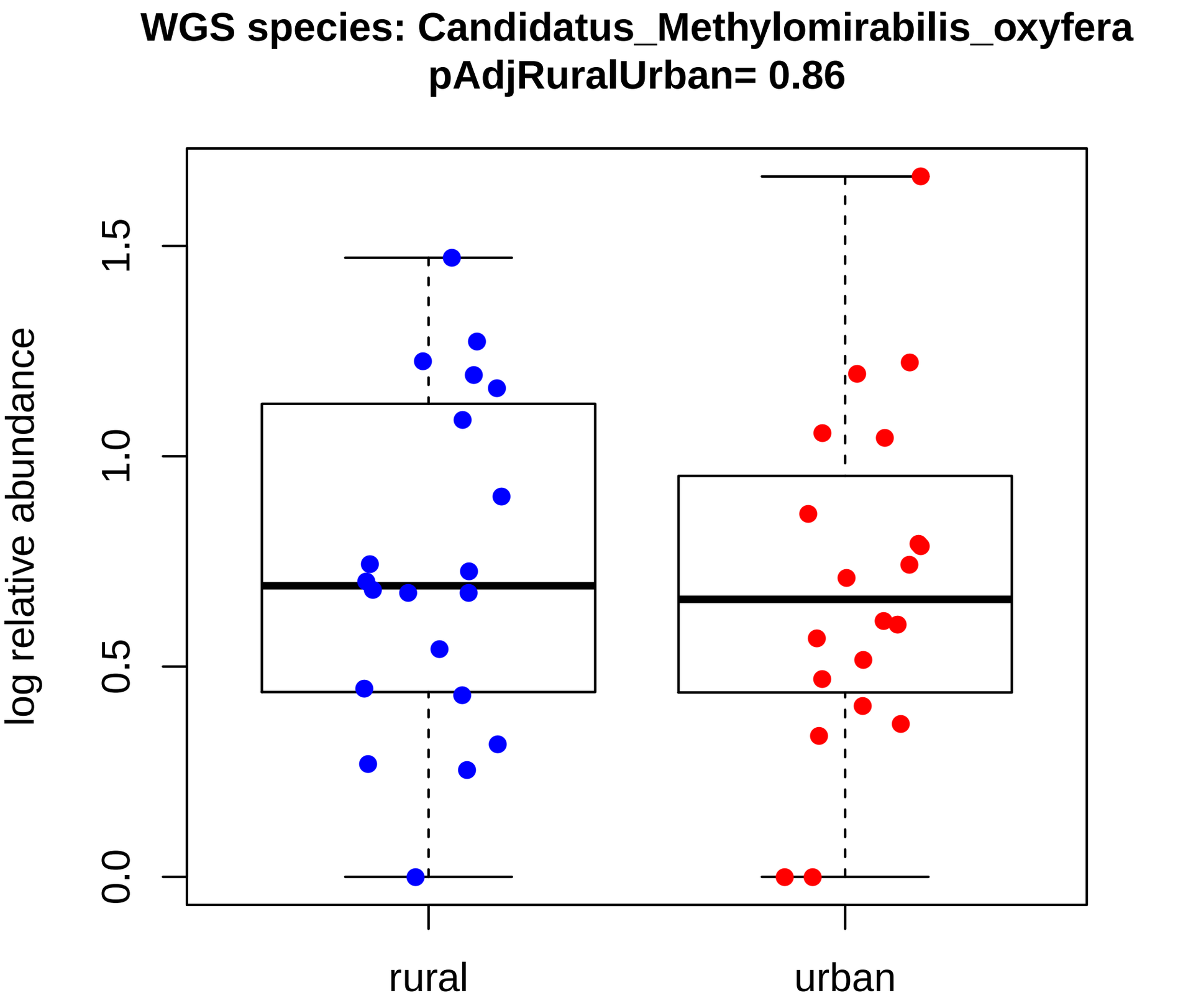

WGS species: Vibrio_sp._EJY3
pAdjRuralUrban= 0.855
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

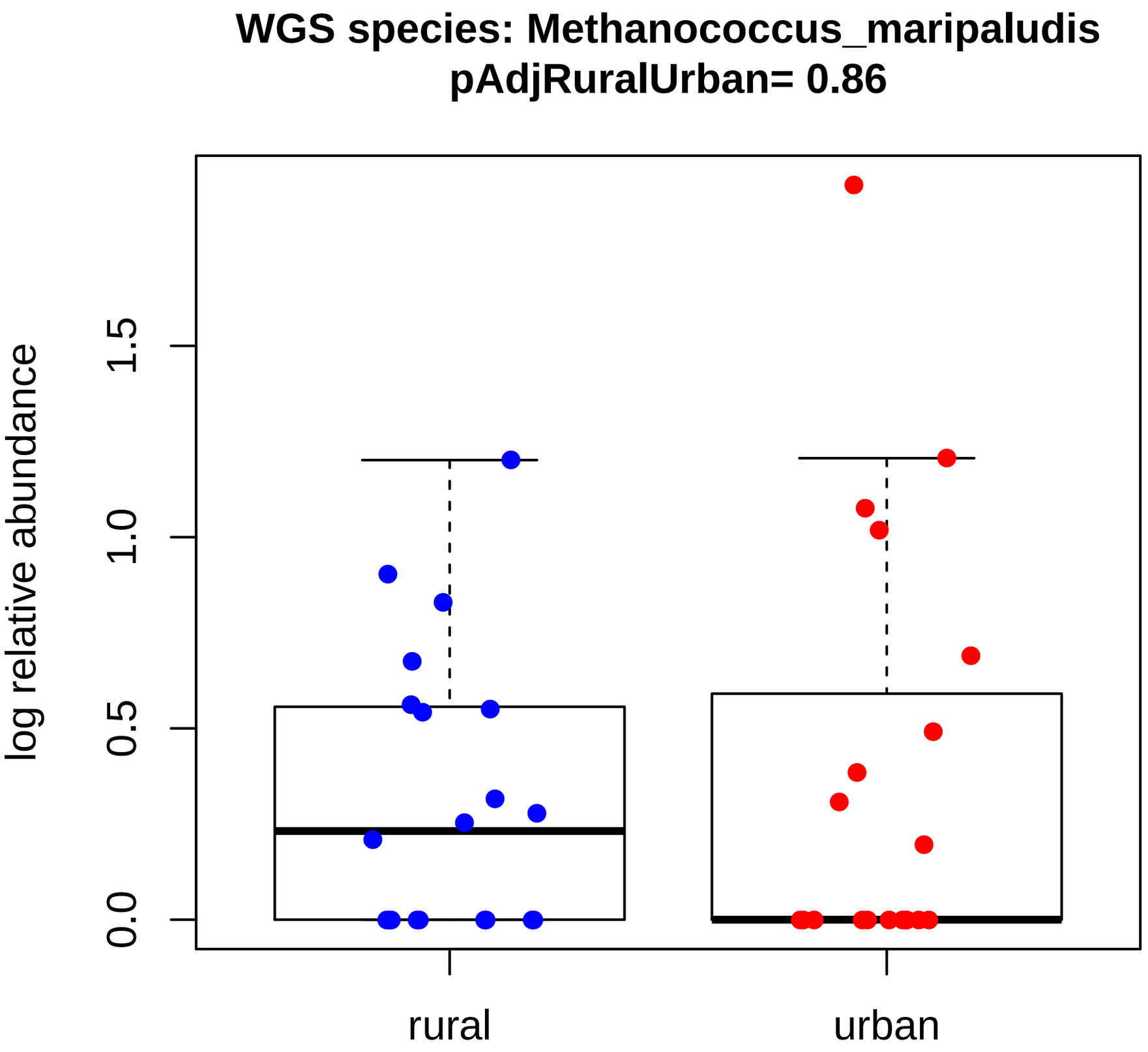

WGS species: Helicobacter_pylori
pAdjRuralUrban= 0.855
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

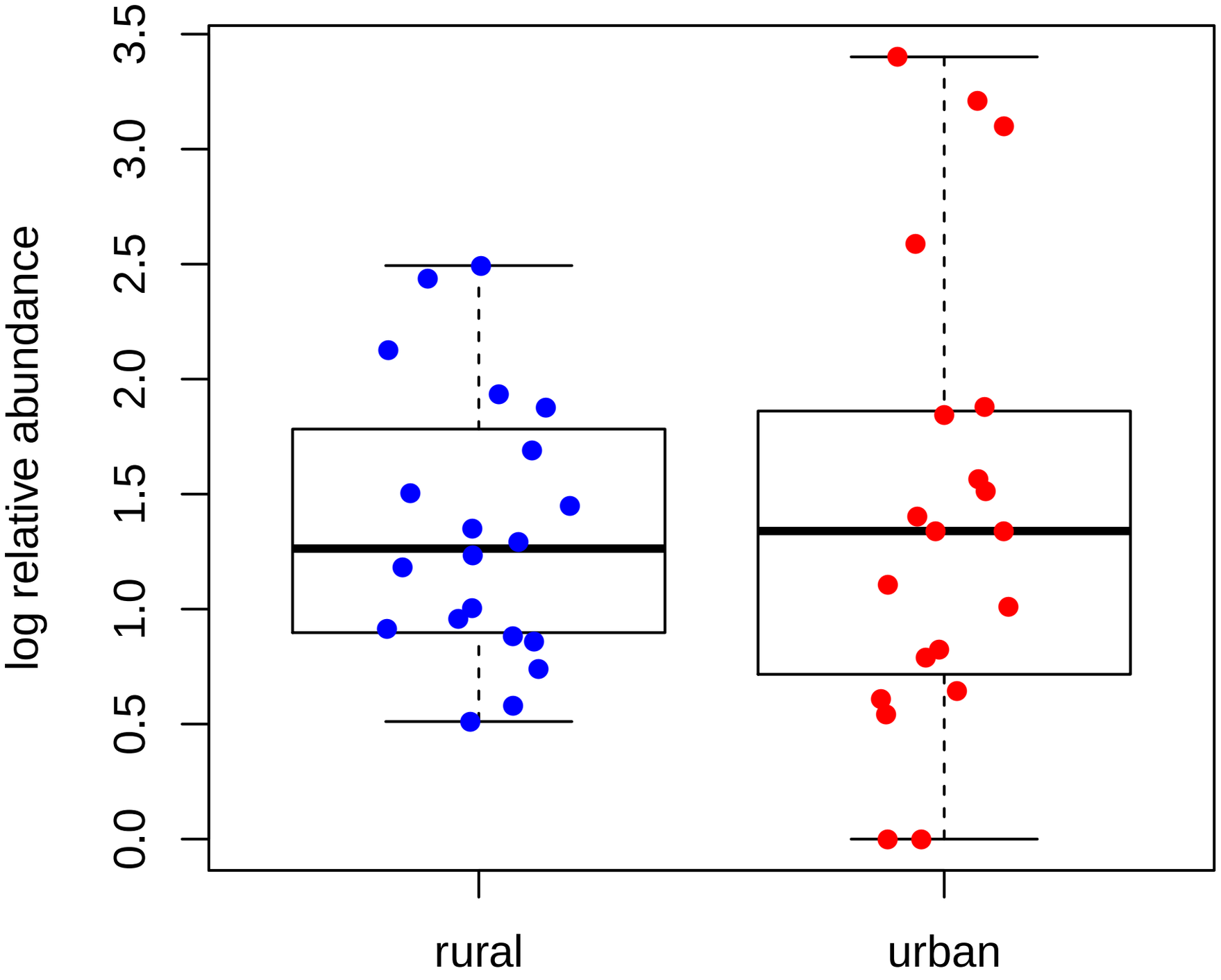

WGS species: Gloeocapsa_sp._PCC_7428
pAdjRuralUrban= 0.856
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

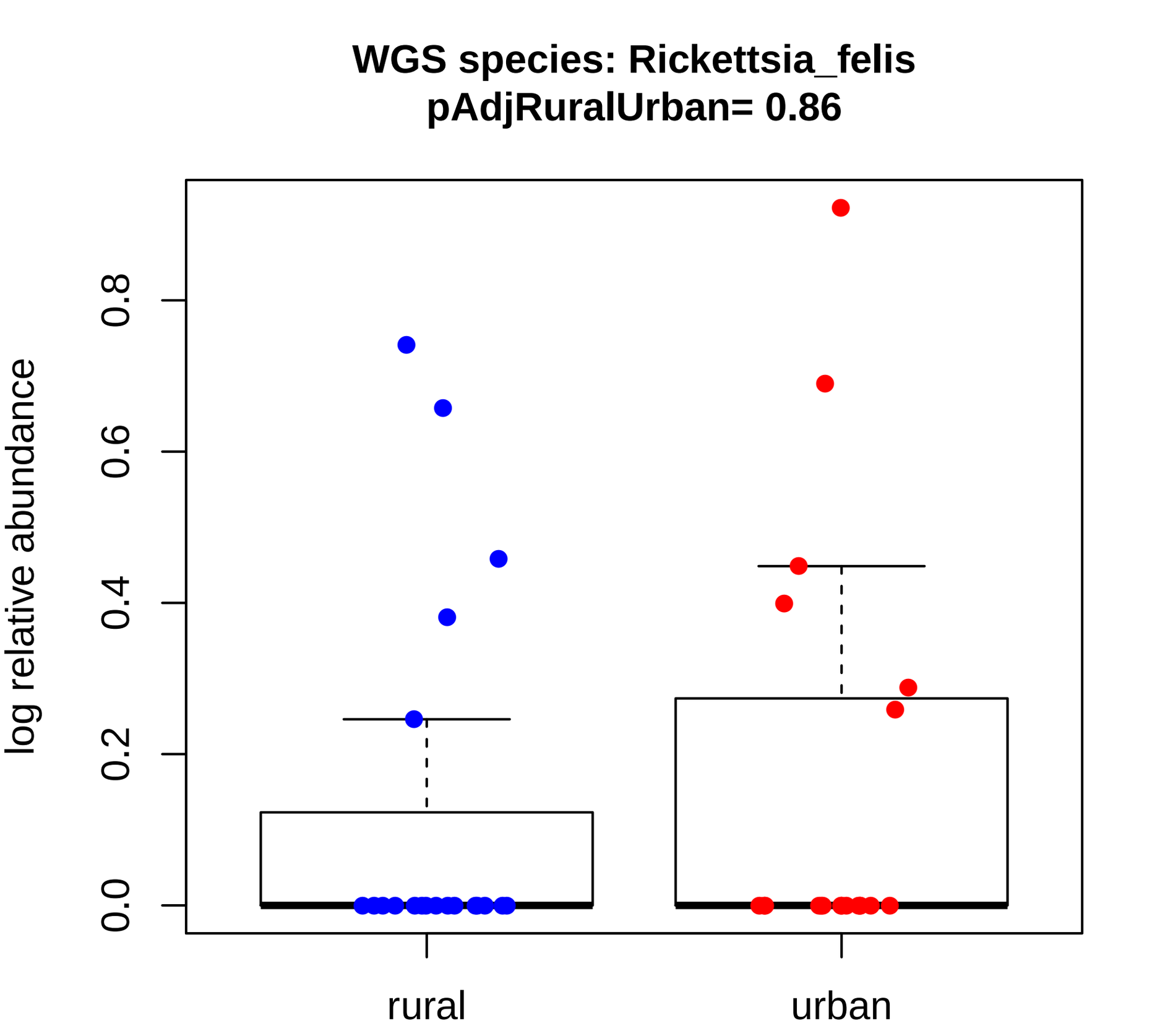

WGS species: Kangiella_koreensis
pAdjRuralUrban= 0.858
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

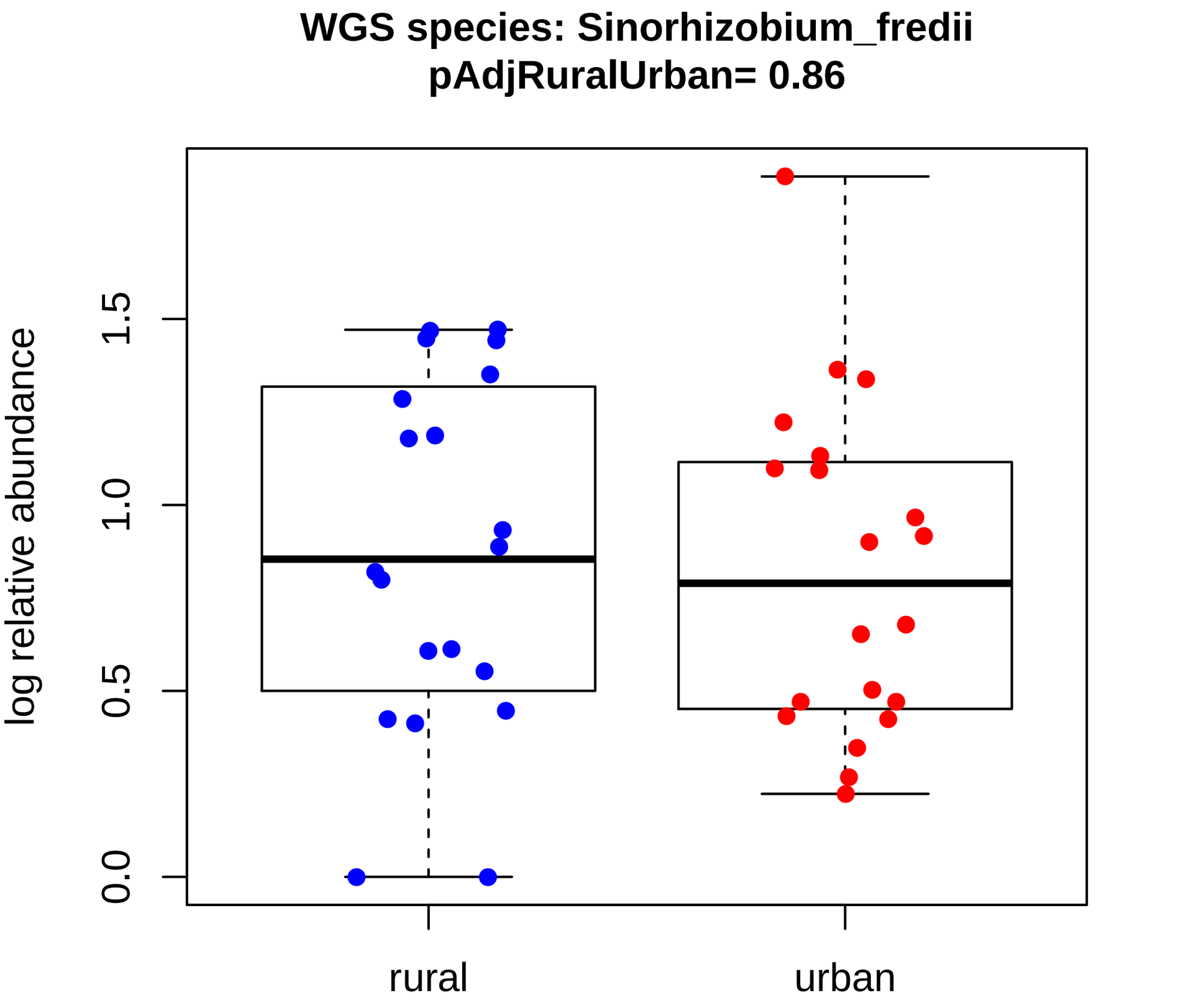

WGS species: Synechococcus_sp._PCC_7002
pAdjRuralUrban= 0.858
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

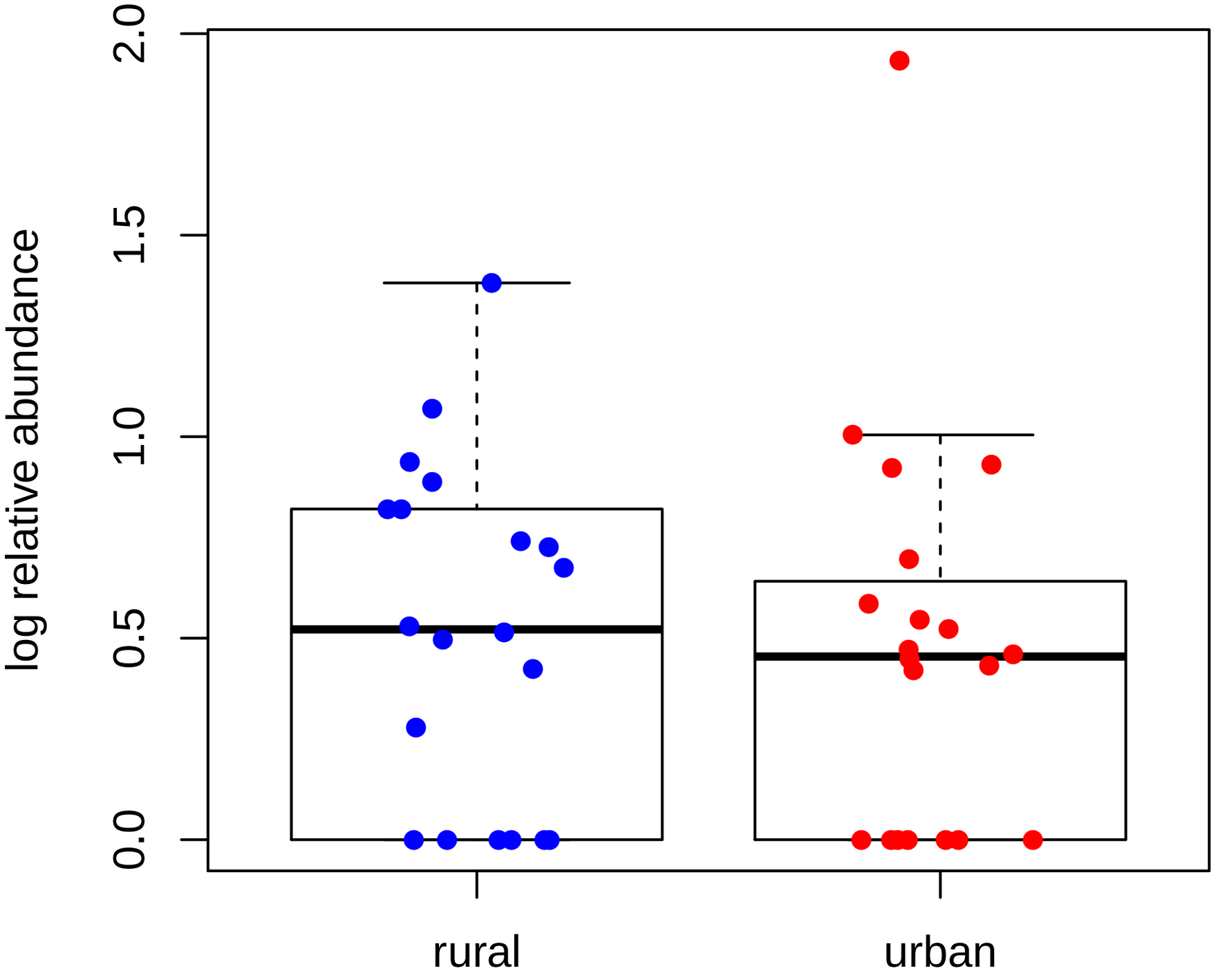

WGS species: Candidatus_Methylomirabilis_oxyfera
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

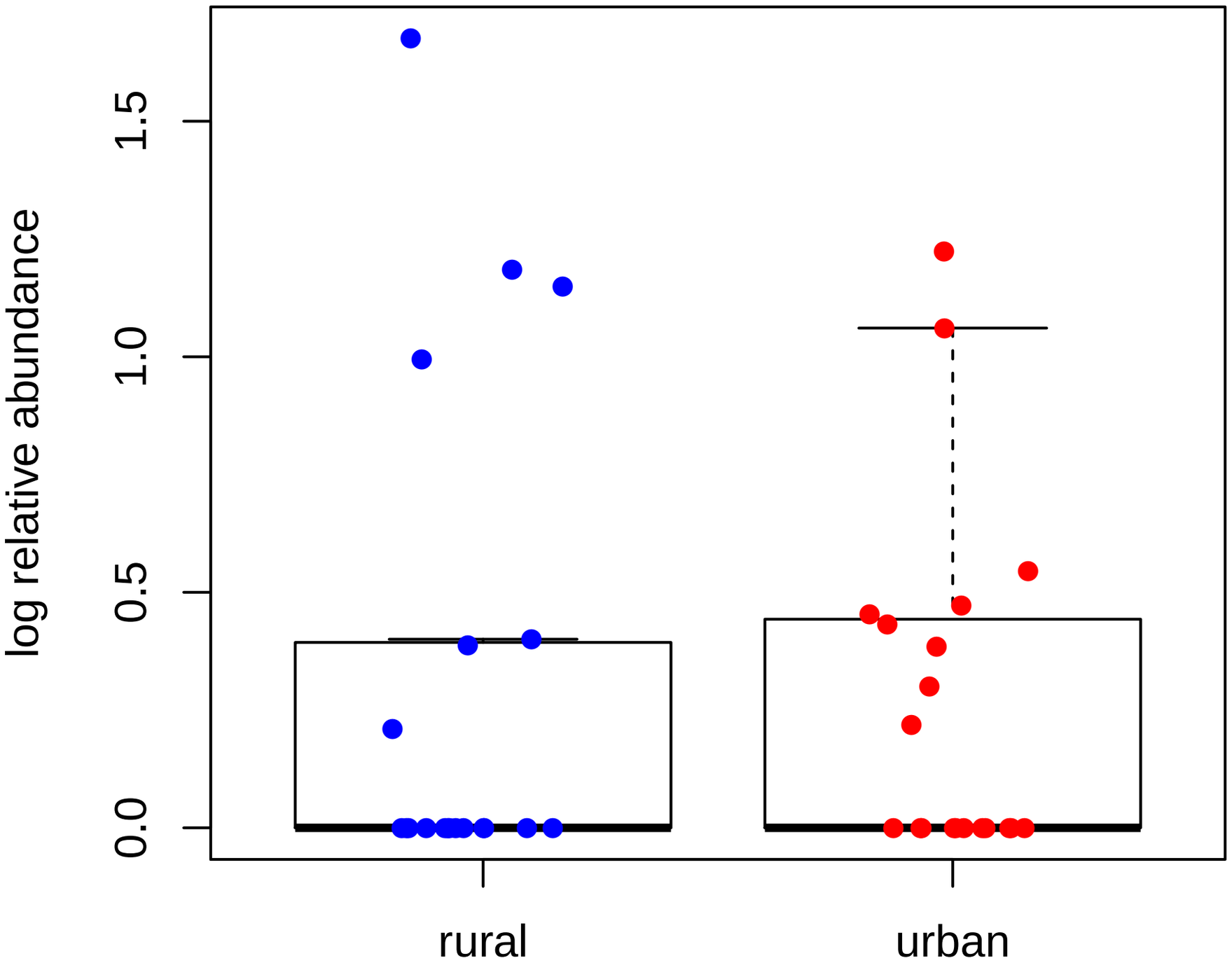

WGS species: Methanococcus_maripaludis
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

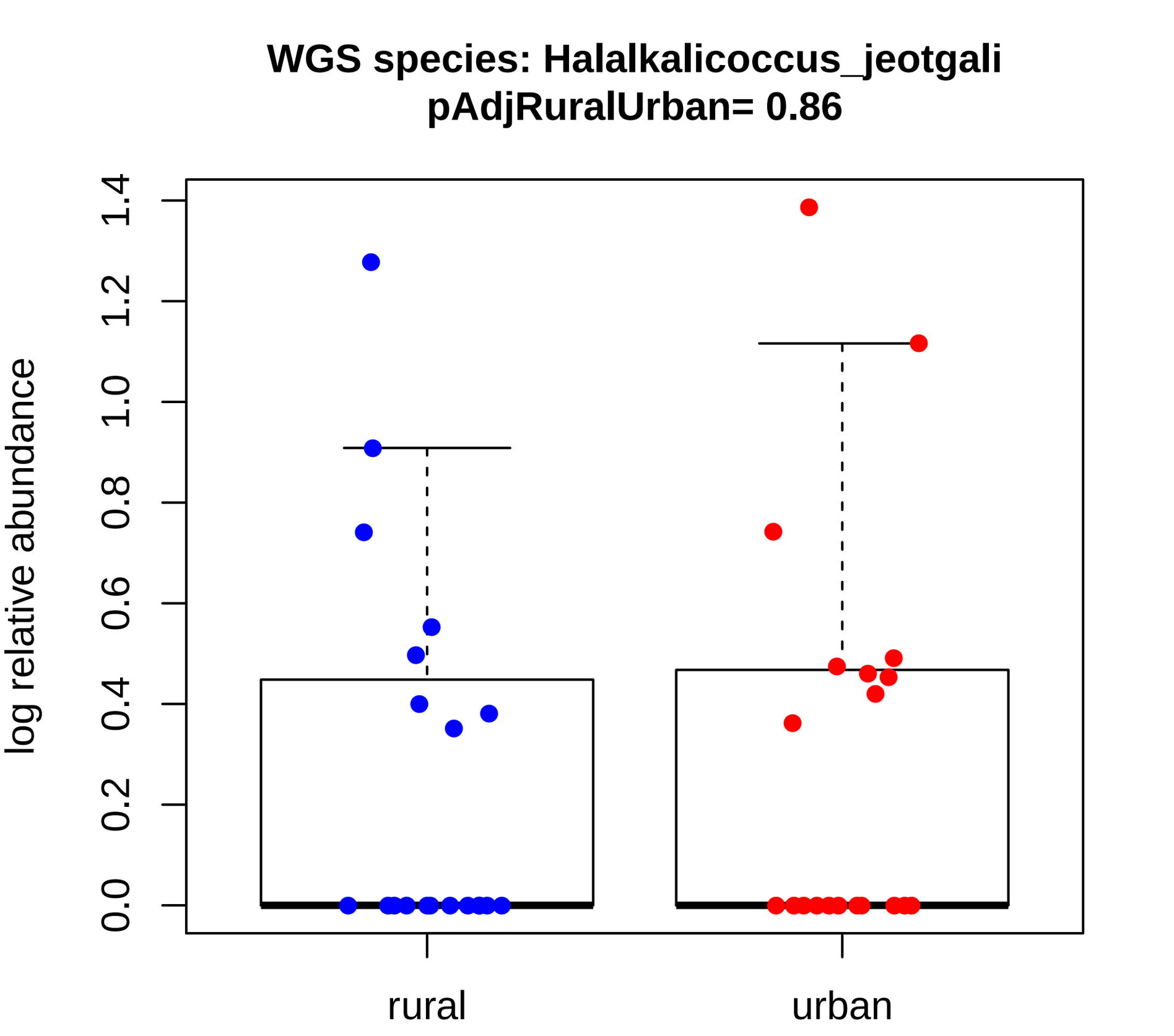

WGS species: Shigella_boydii
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
rural
urban

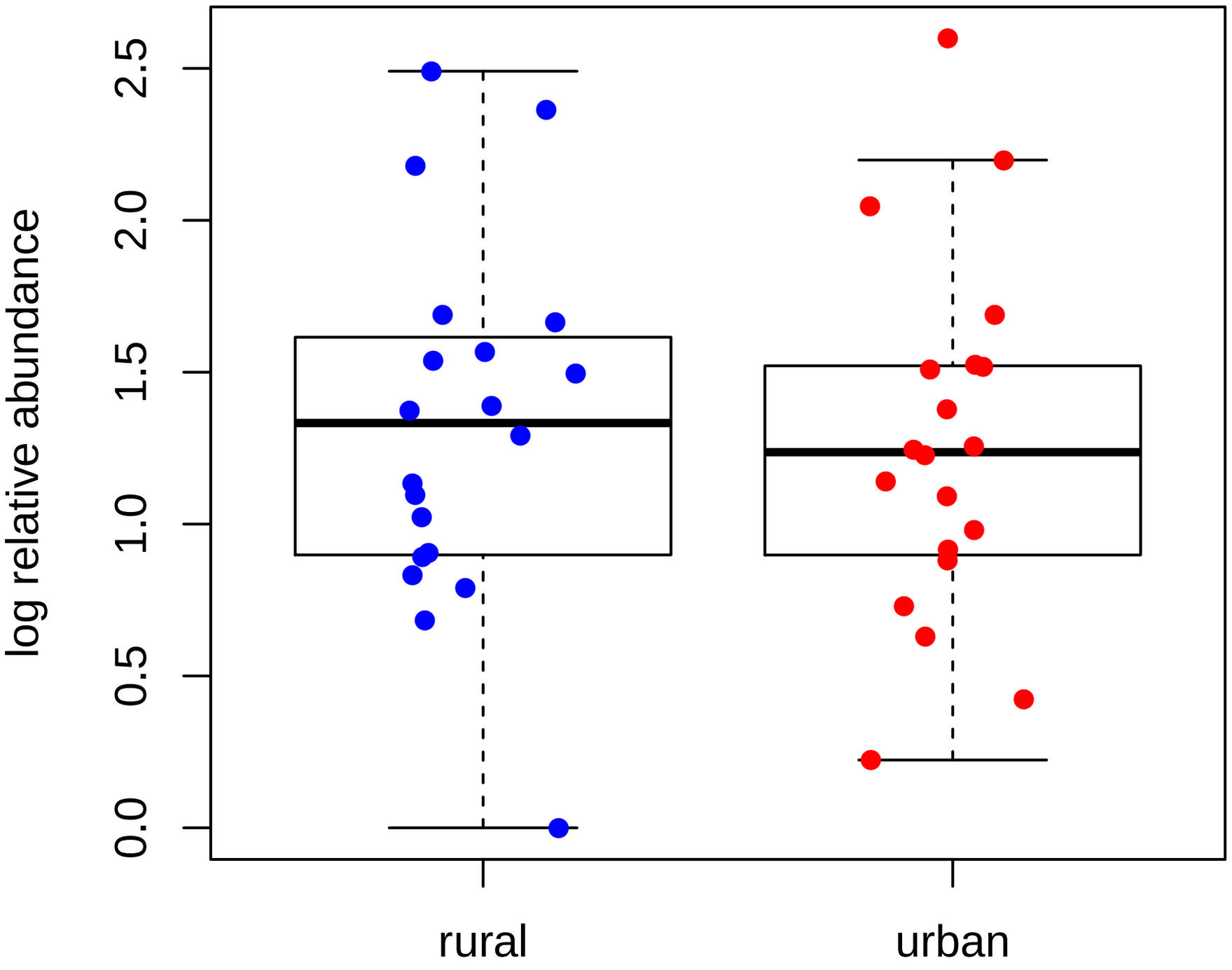

WGS species: Rickettsia_felis
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

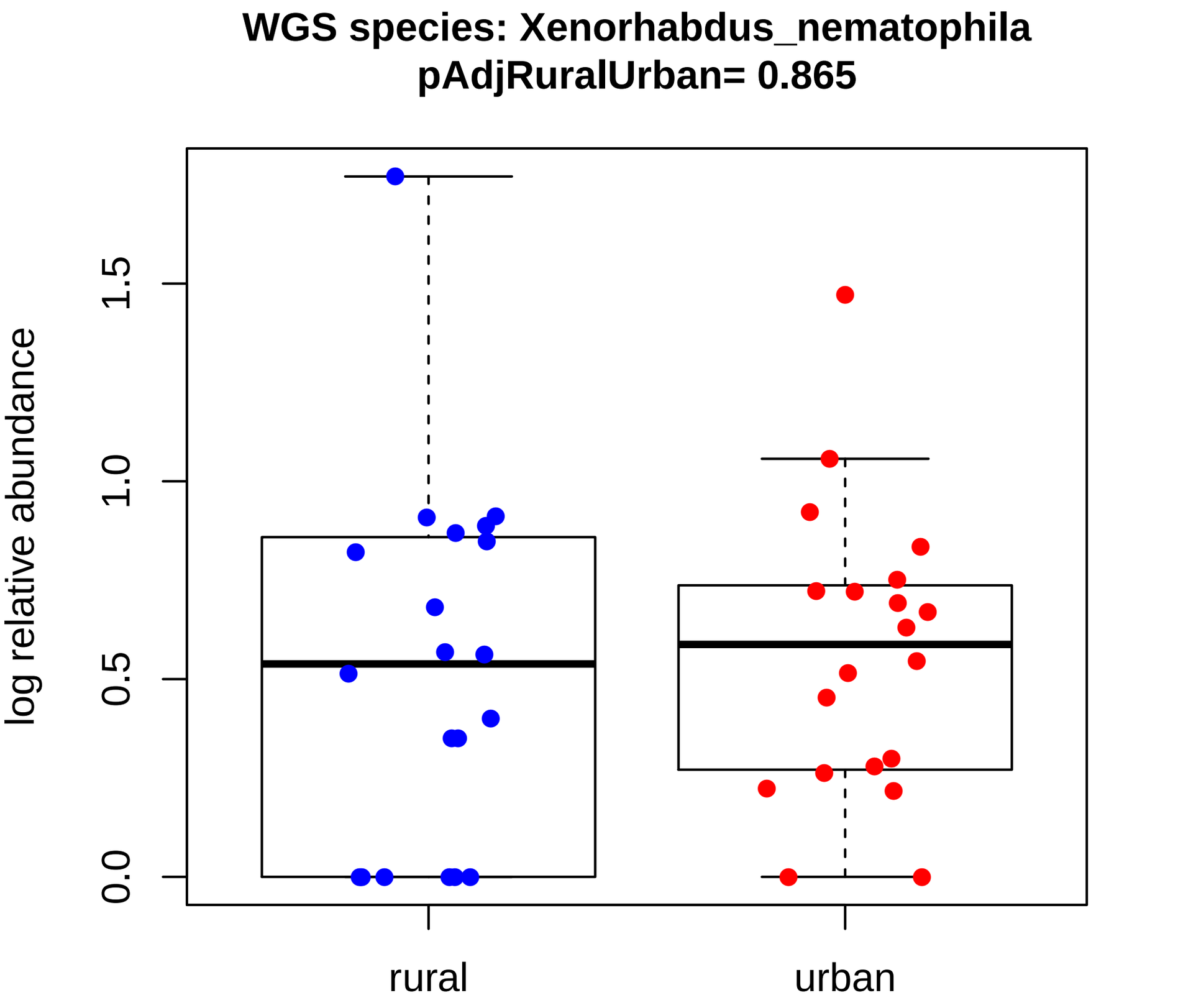

WGS species: Sinorhizobium_fredii
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

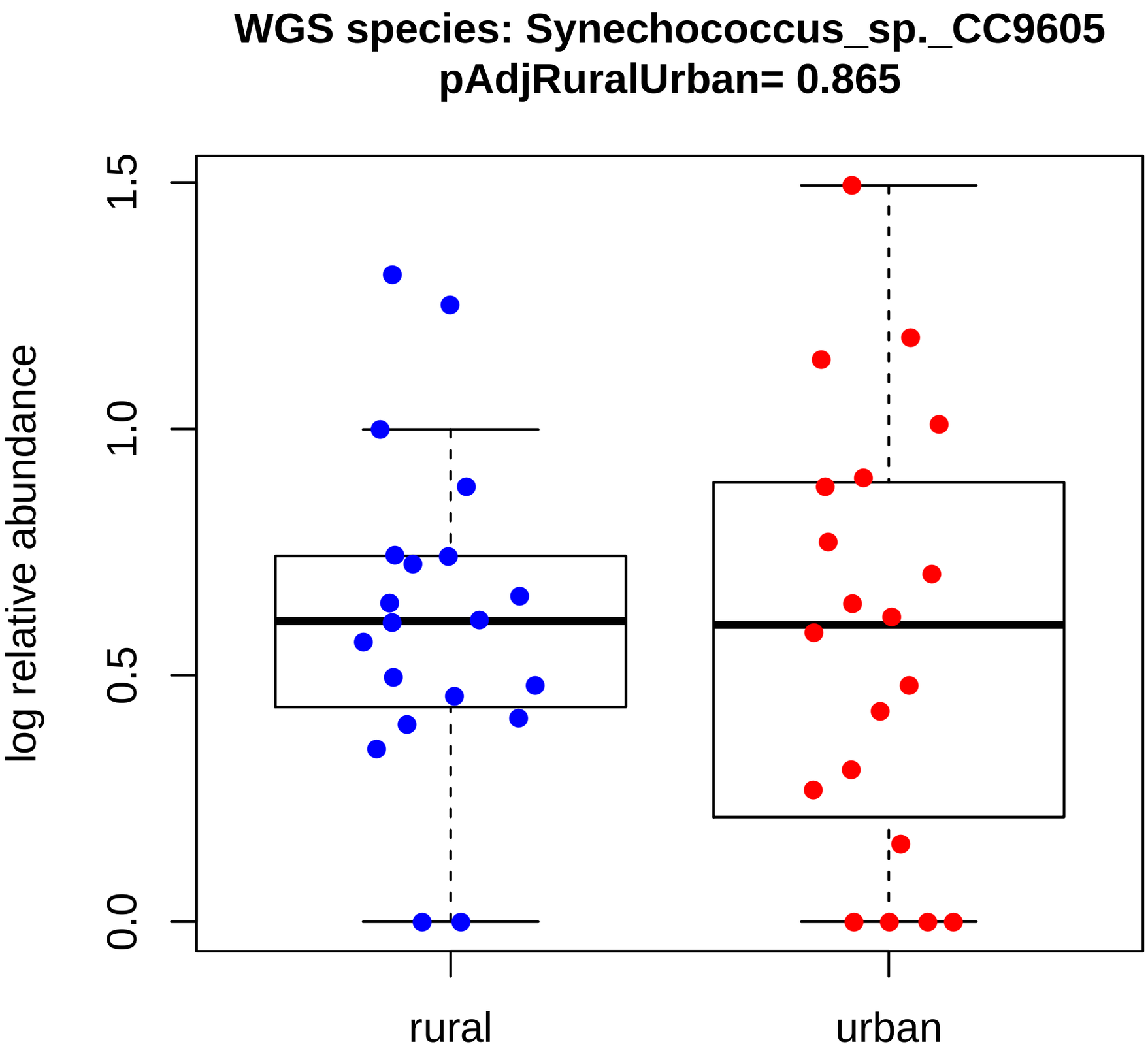

WGS species: Pseudomonas_entomophila
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

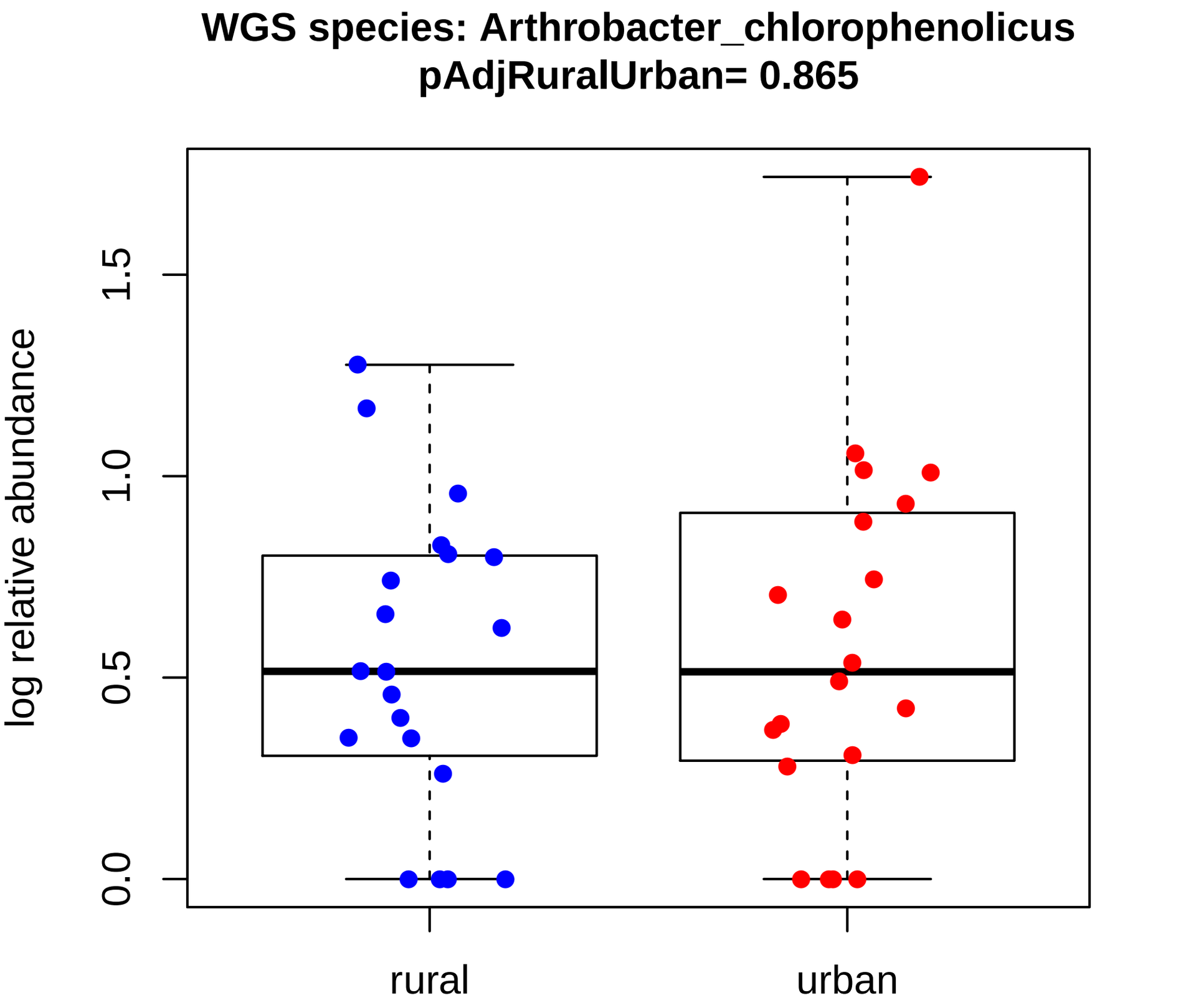

WGS species: Edwardsiella_piscicida
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

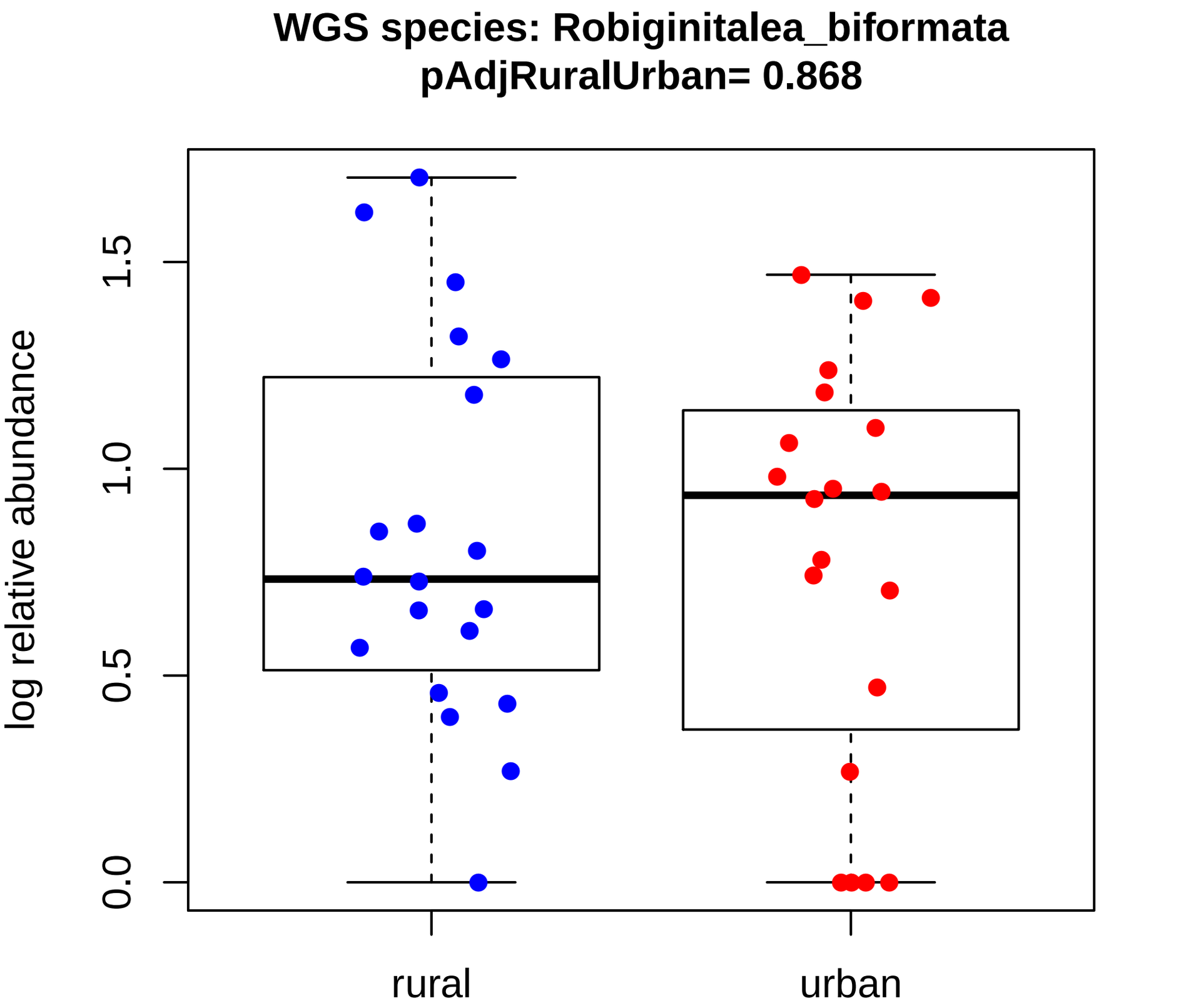

WGS species: Halalkalicoccus_jeotgali
pAdjRuralUrban= 0.86
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

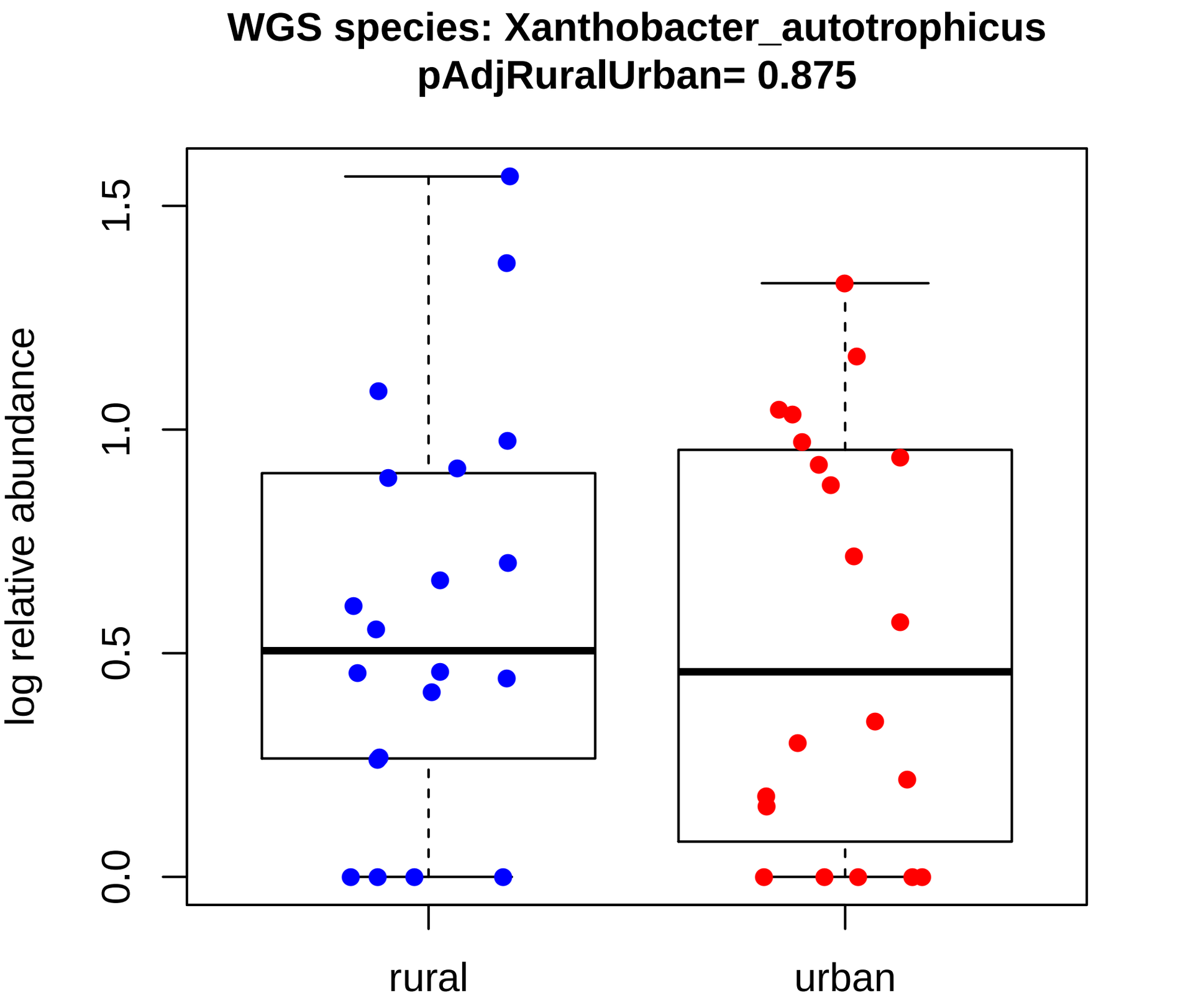

WGS species: Serratia_marcescens
pAdjRuralUrban= 0.862
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

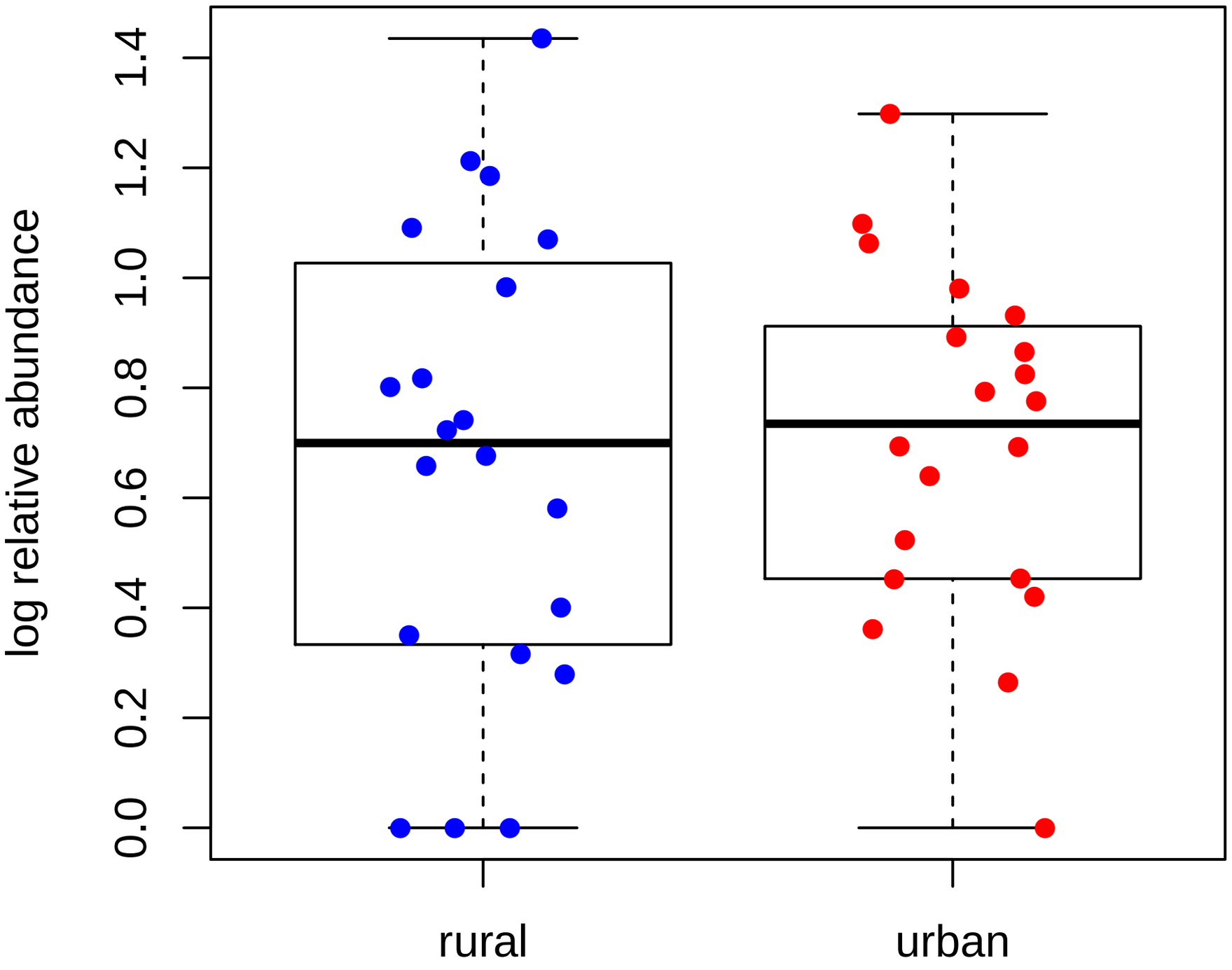

WGS species: Xenorhabdus_nematophila
pAdjRuralUrban= 0.865
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

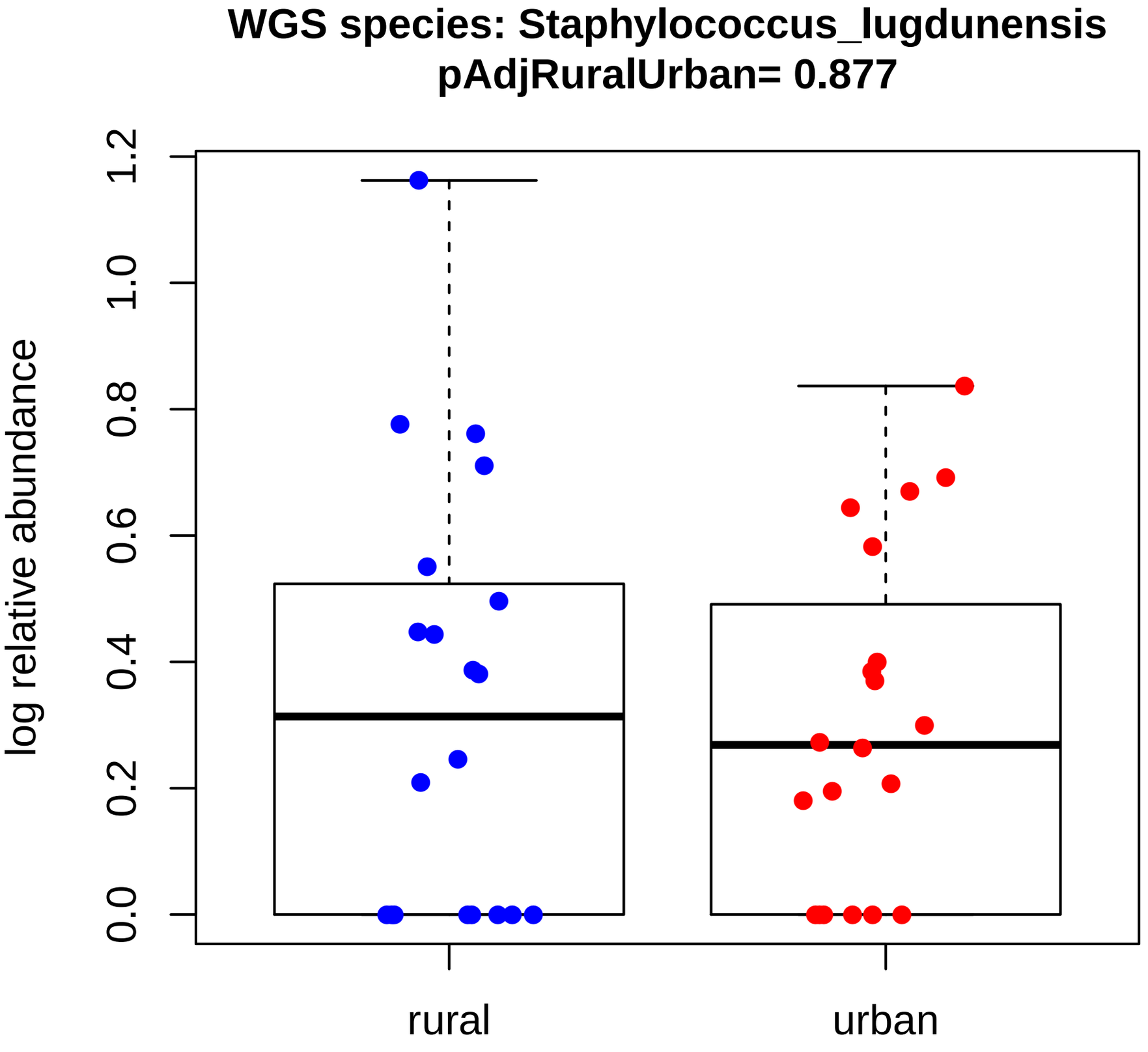

WGS species: Synechococcus_sp._CC9605
pAdjRuralUrban= 0.865
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

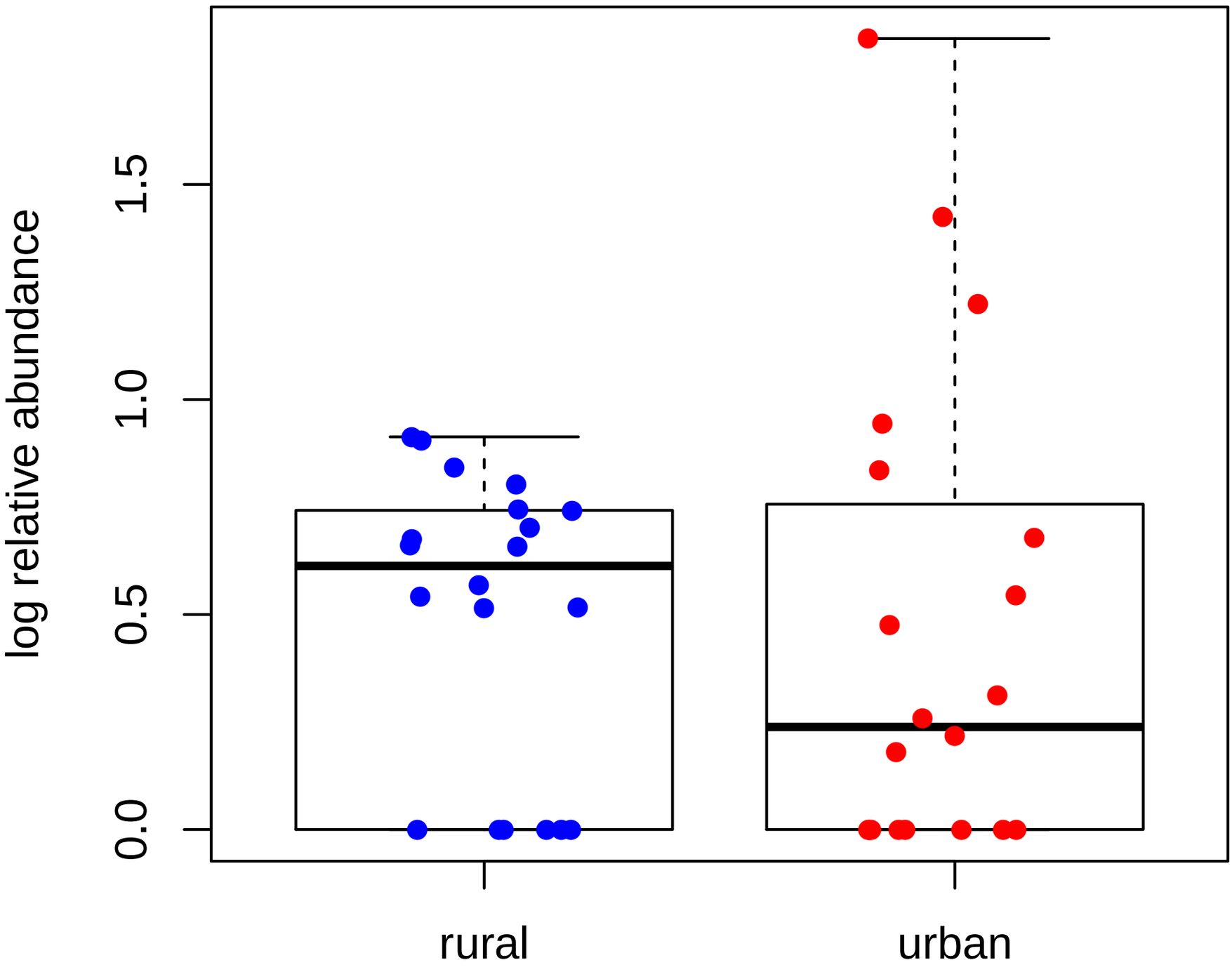

WGS species: Arthrobacter_chlorophenolicus
pAdjRuralUrban= 0.865
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

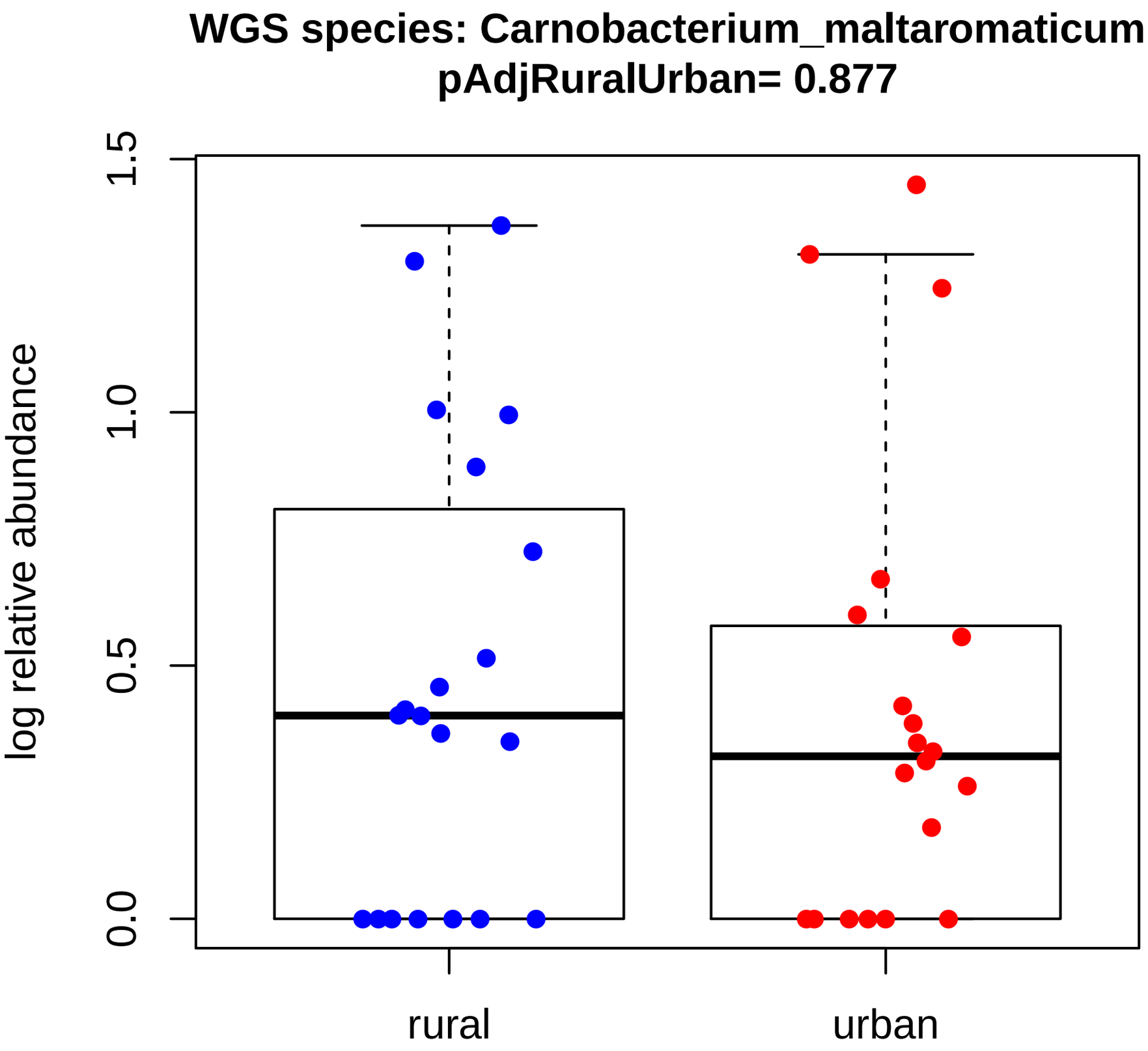

WGS species: Robiginitalea_biformata
pAdjRuralUrban= 0.868
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

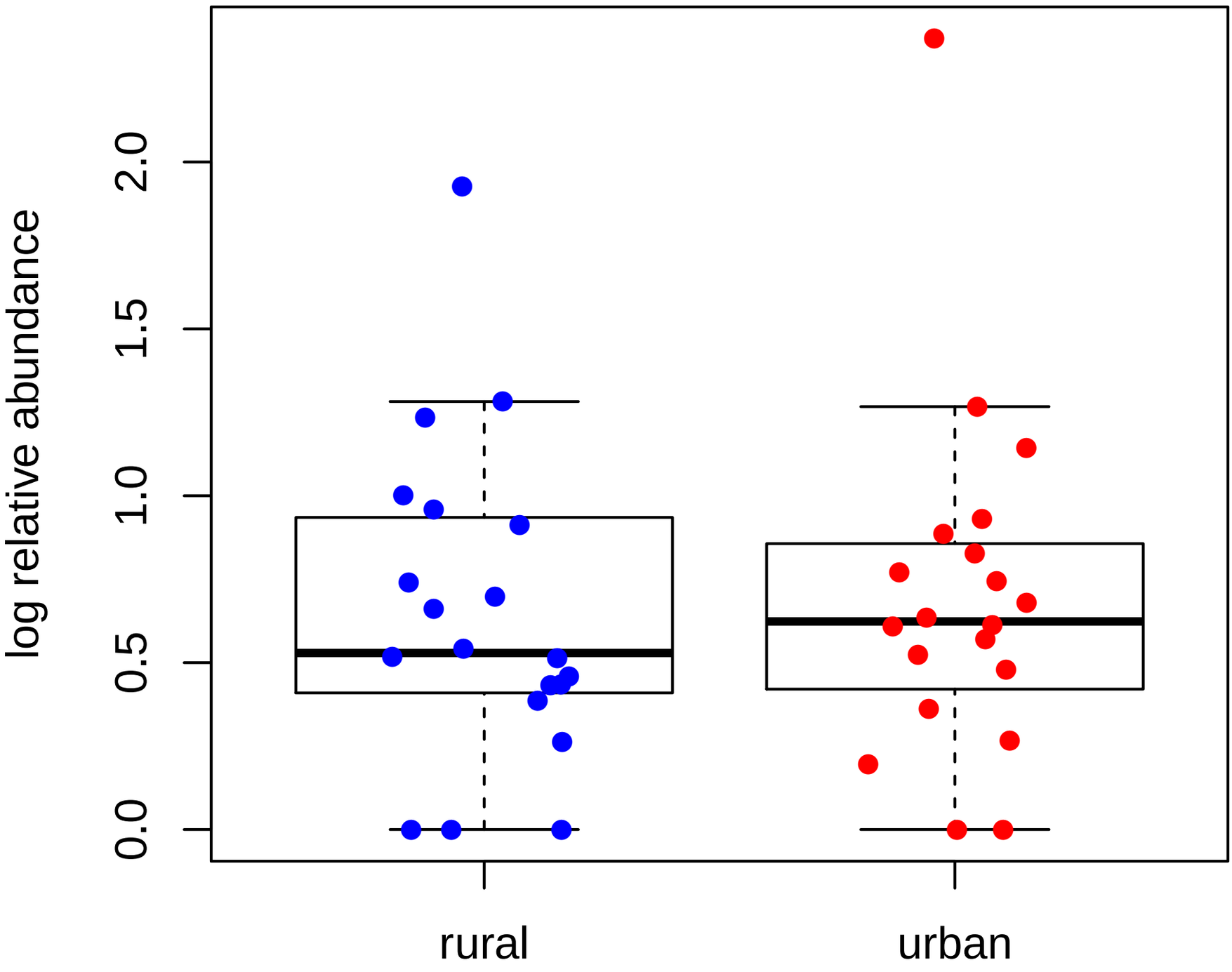

WGS species: Xanthobacter_autotrophicus
pAdjRuralUrban= 0.875
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

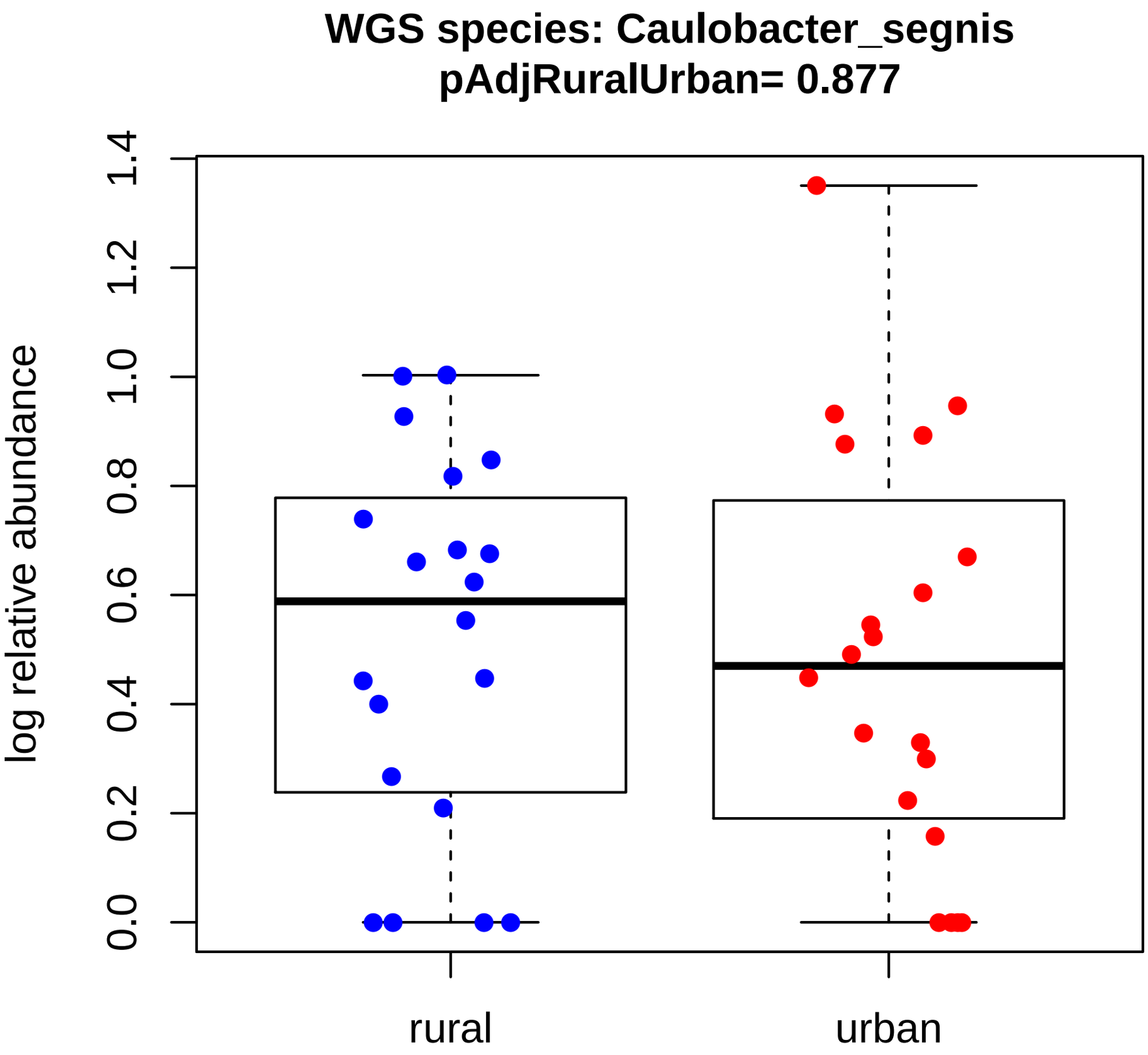

WGS species: Desulfosporosinus_meridiei
pAdjRuralUrban= 0.876
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

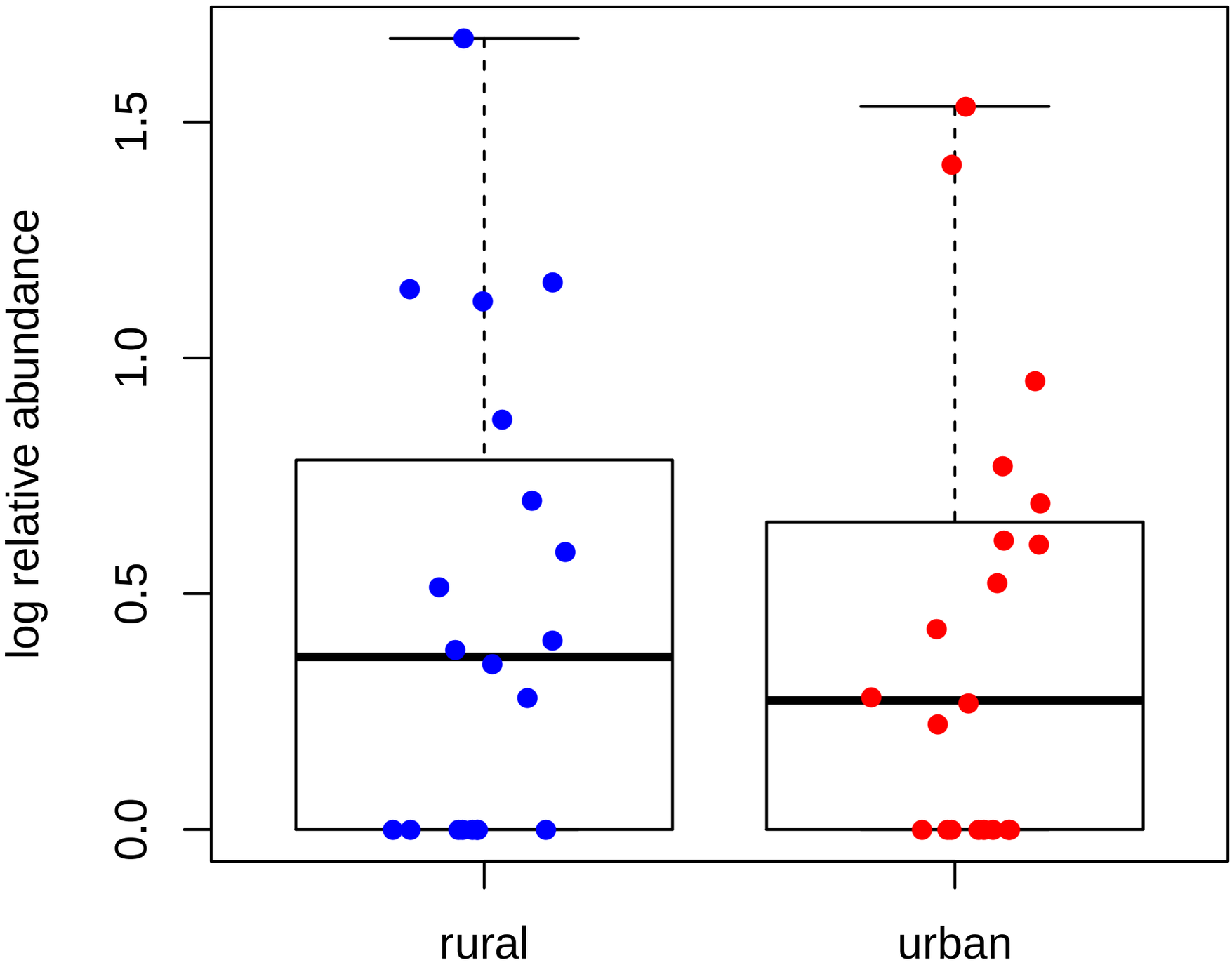

WGS species: Staphylococcus_lugdunensis
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

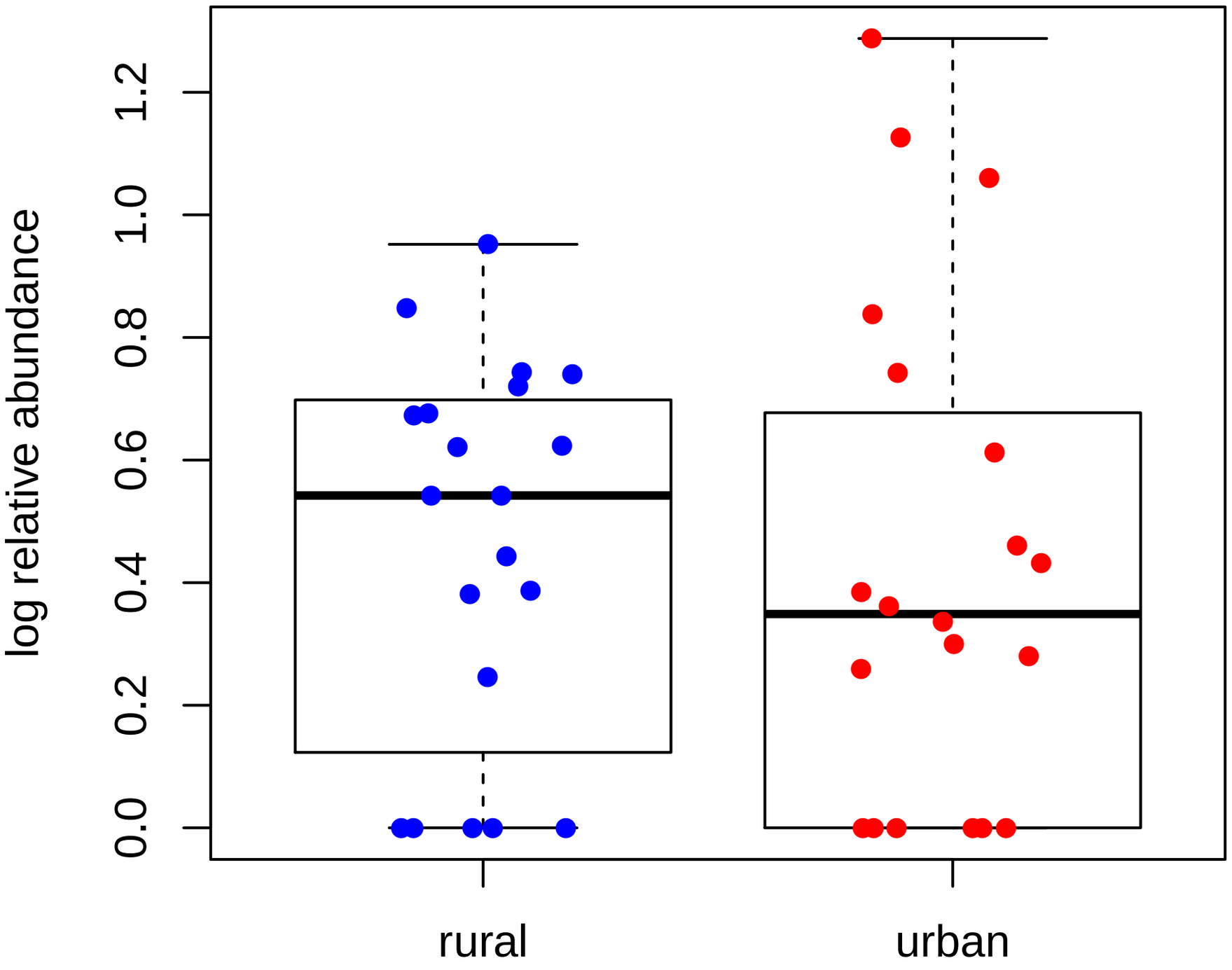

WGS species: Methylobacterium_nodulans
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

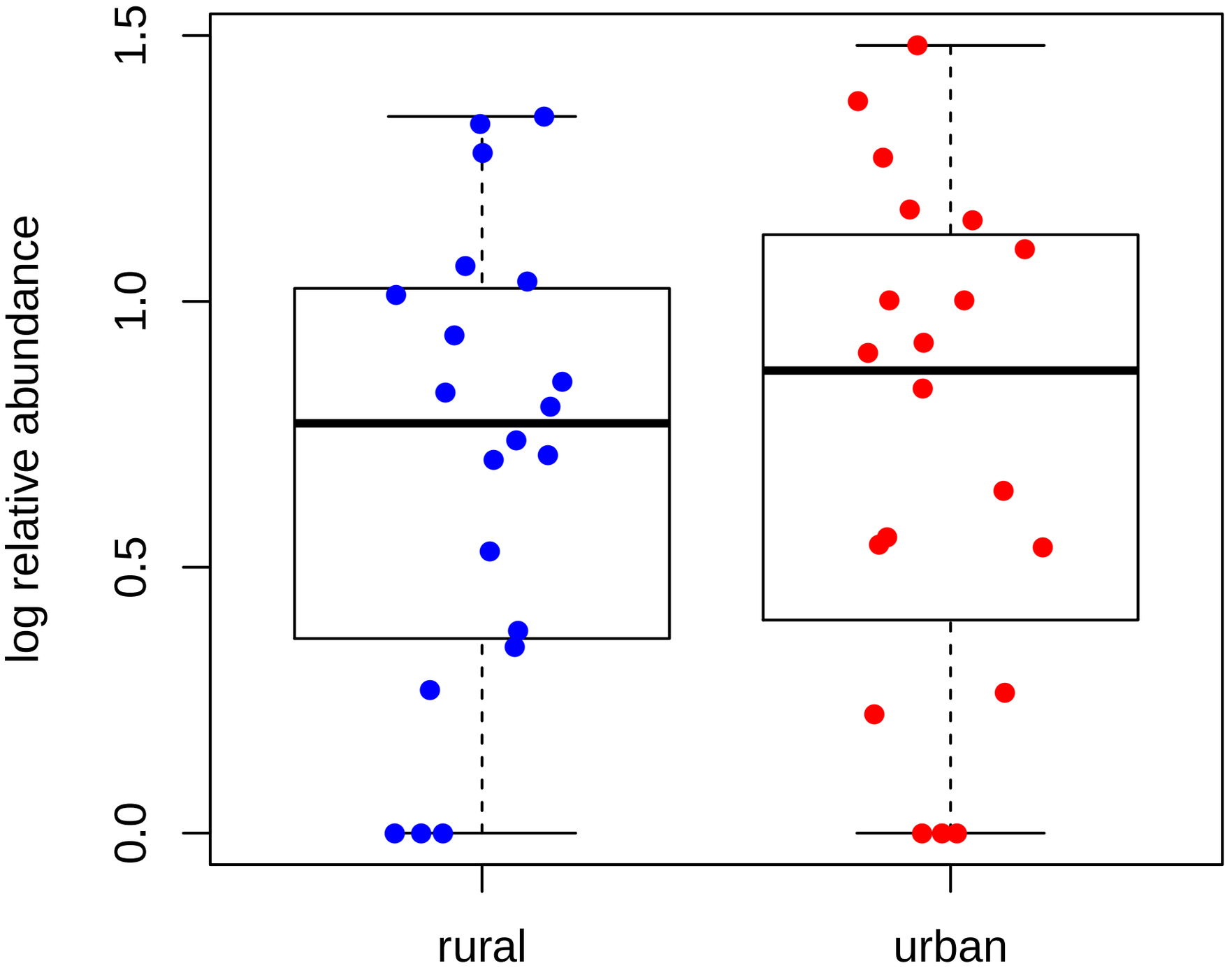

WGS species: Carnobacterium_maltaromaticum
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

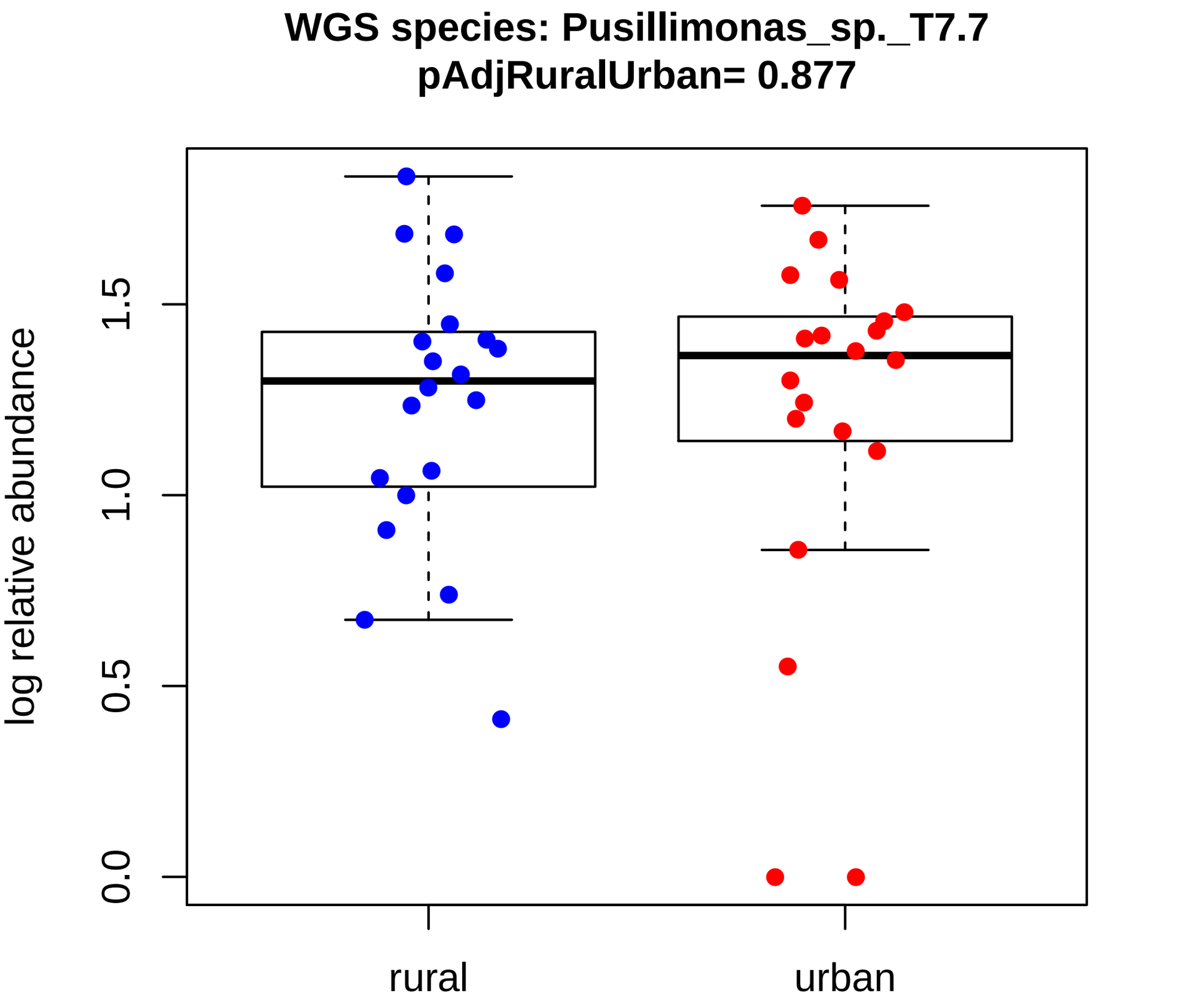

WGS species: Amphibacillus_xylanus
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

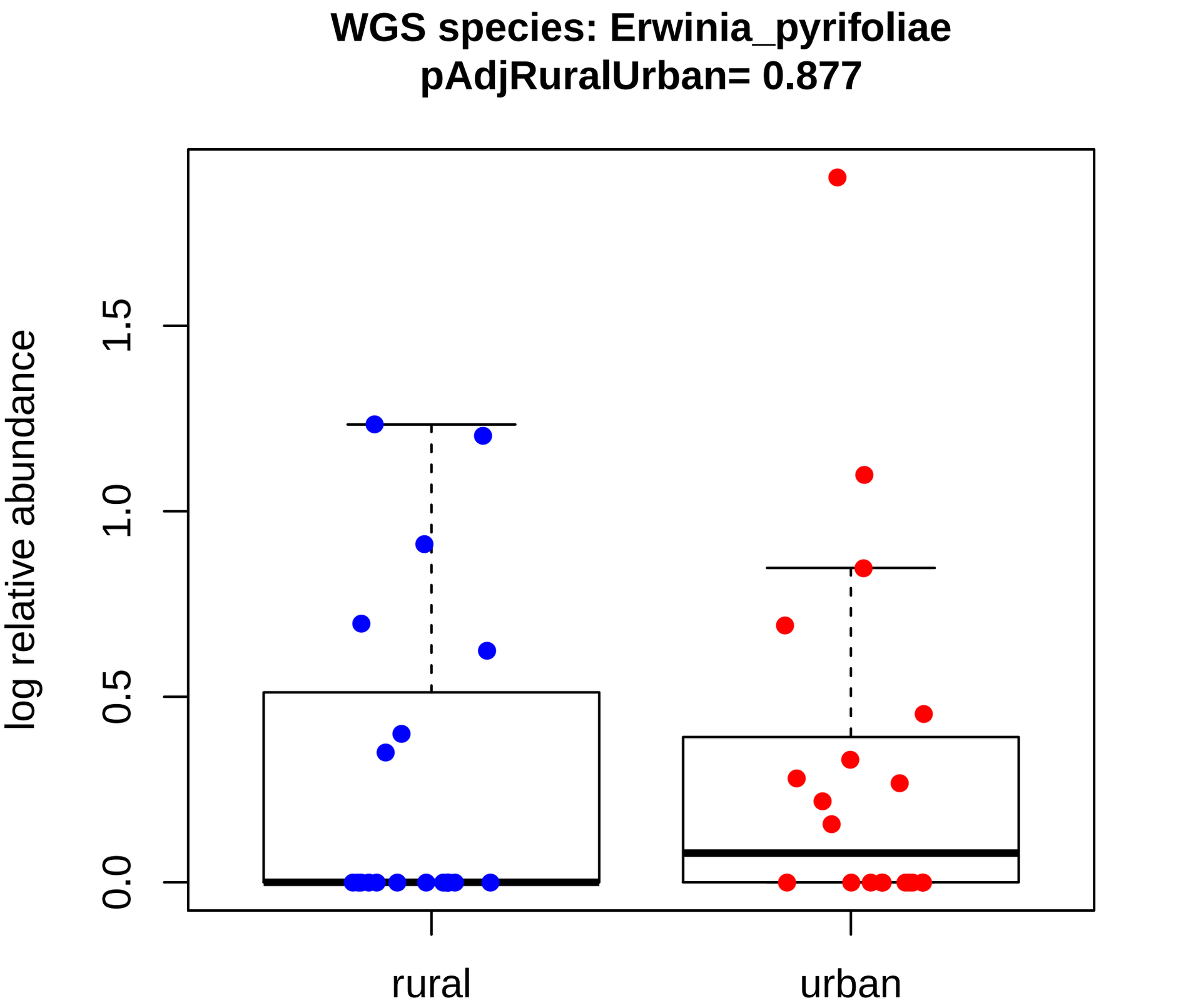

WGS species: Caulobacter_segnis
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

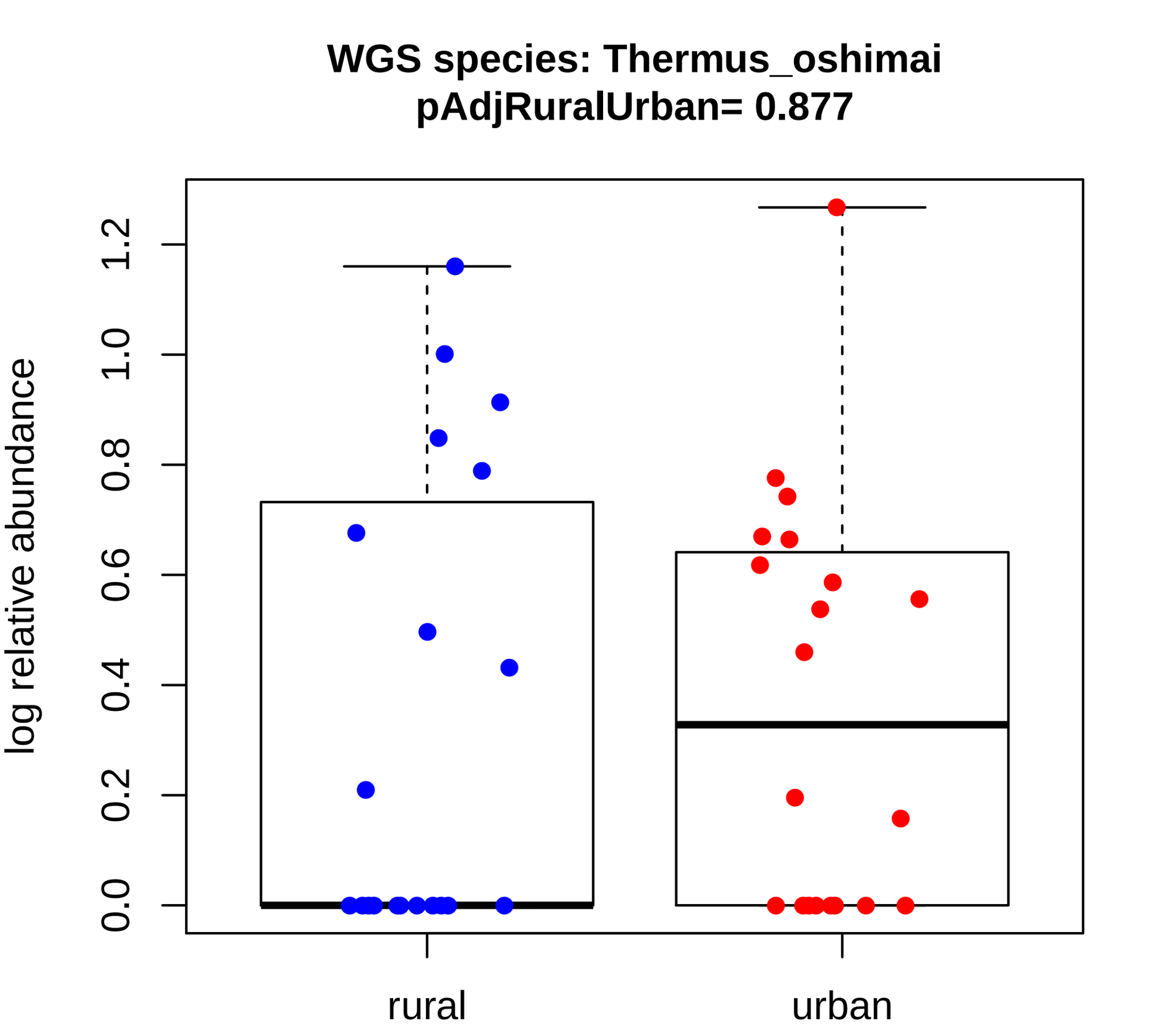

WGS species: Maribacter_sp._HTCC2170
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

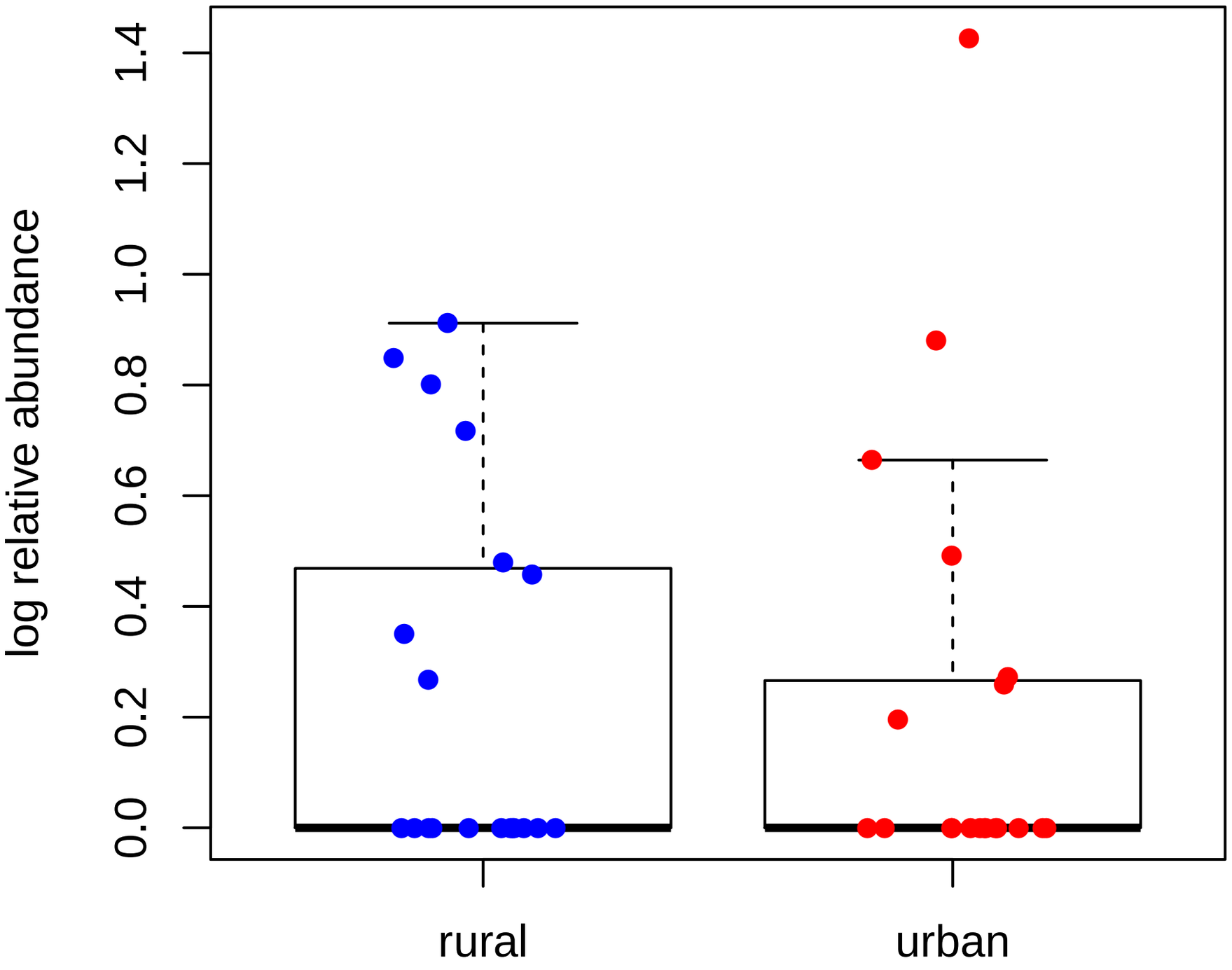

WGS species: Buchnera_aphidicola
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

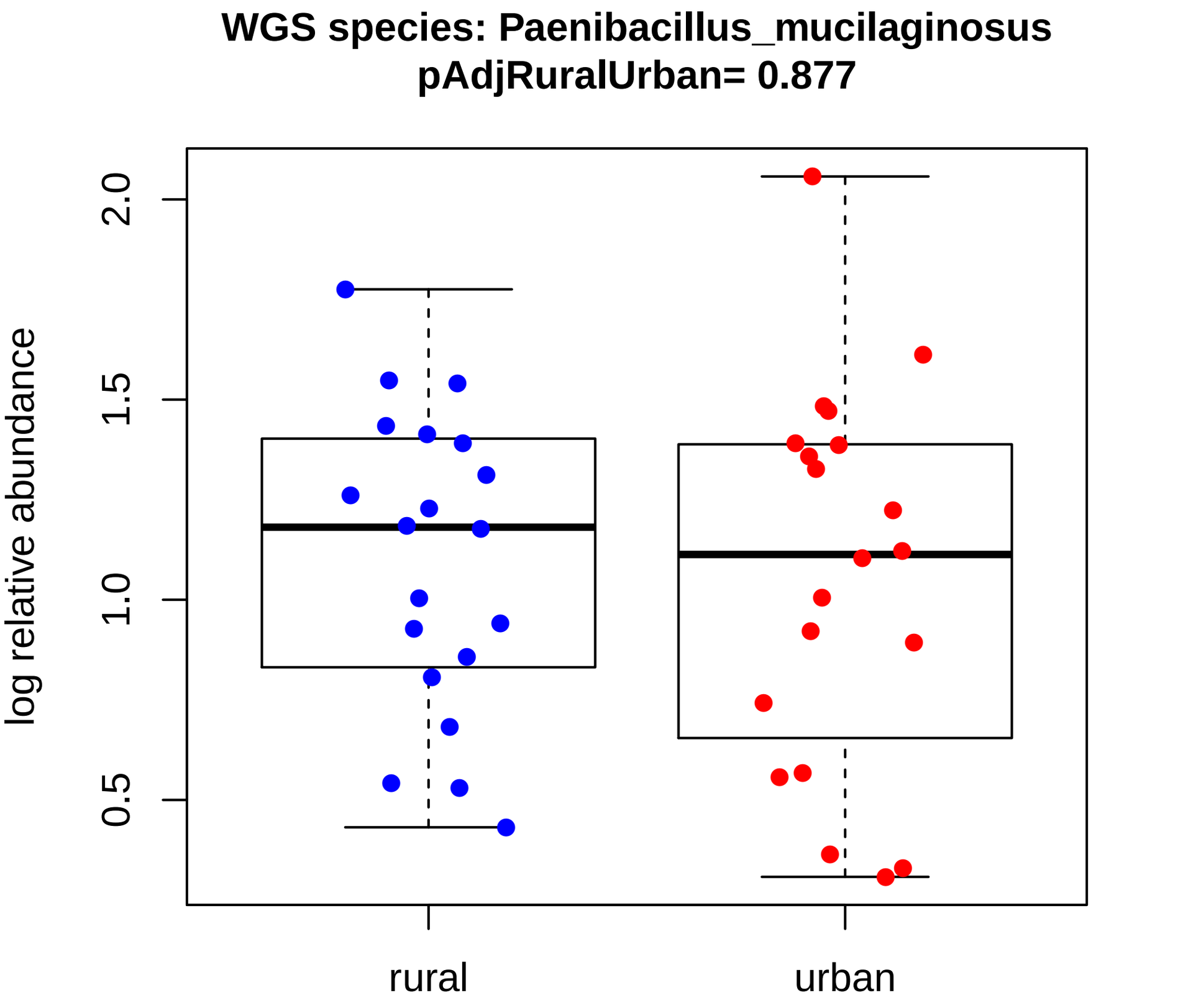

WGS species: Desulfurobacterium_thermolithotrophum
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

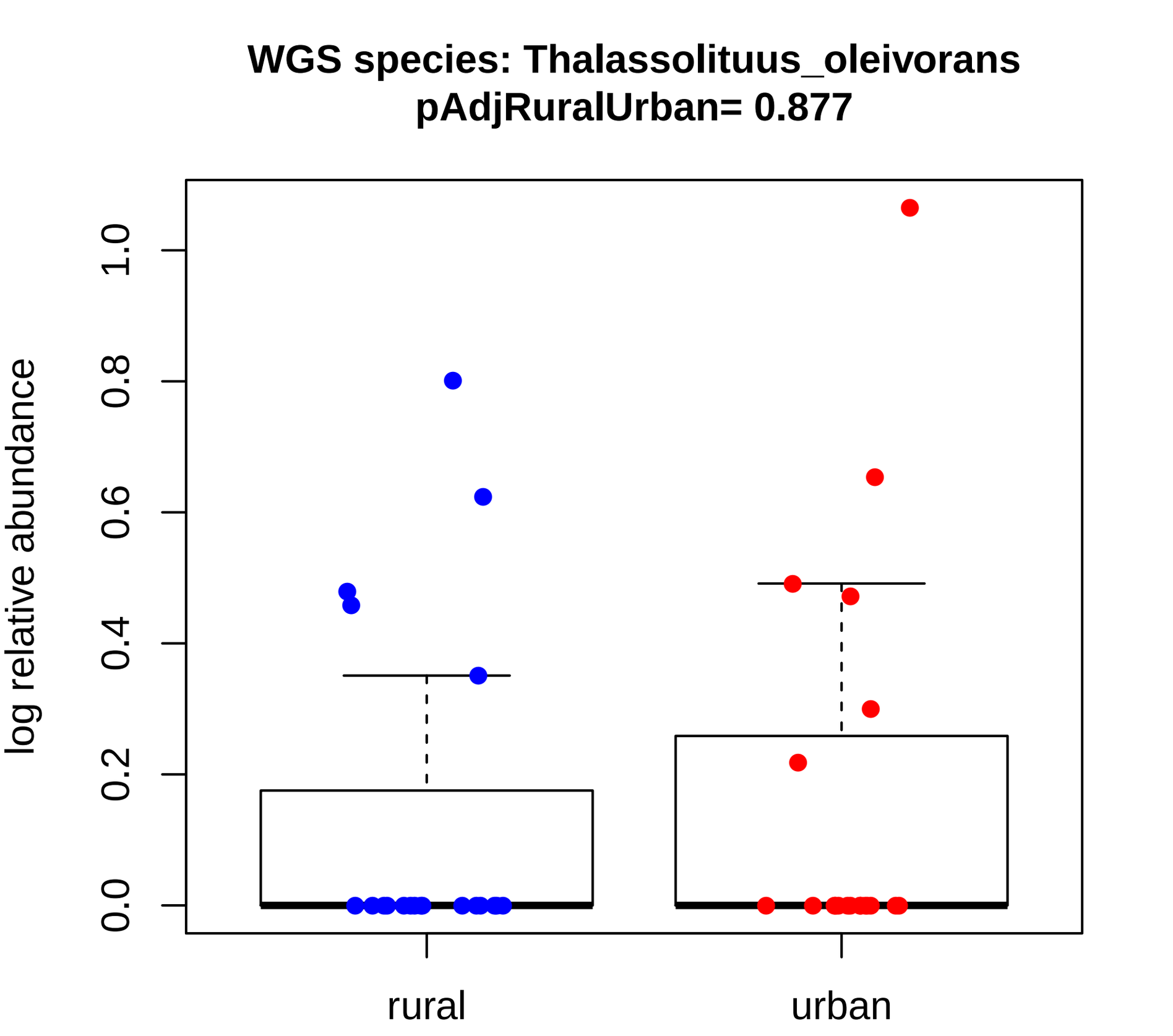

WGS species: Pusillimonas_sp._T7.7
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

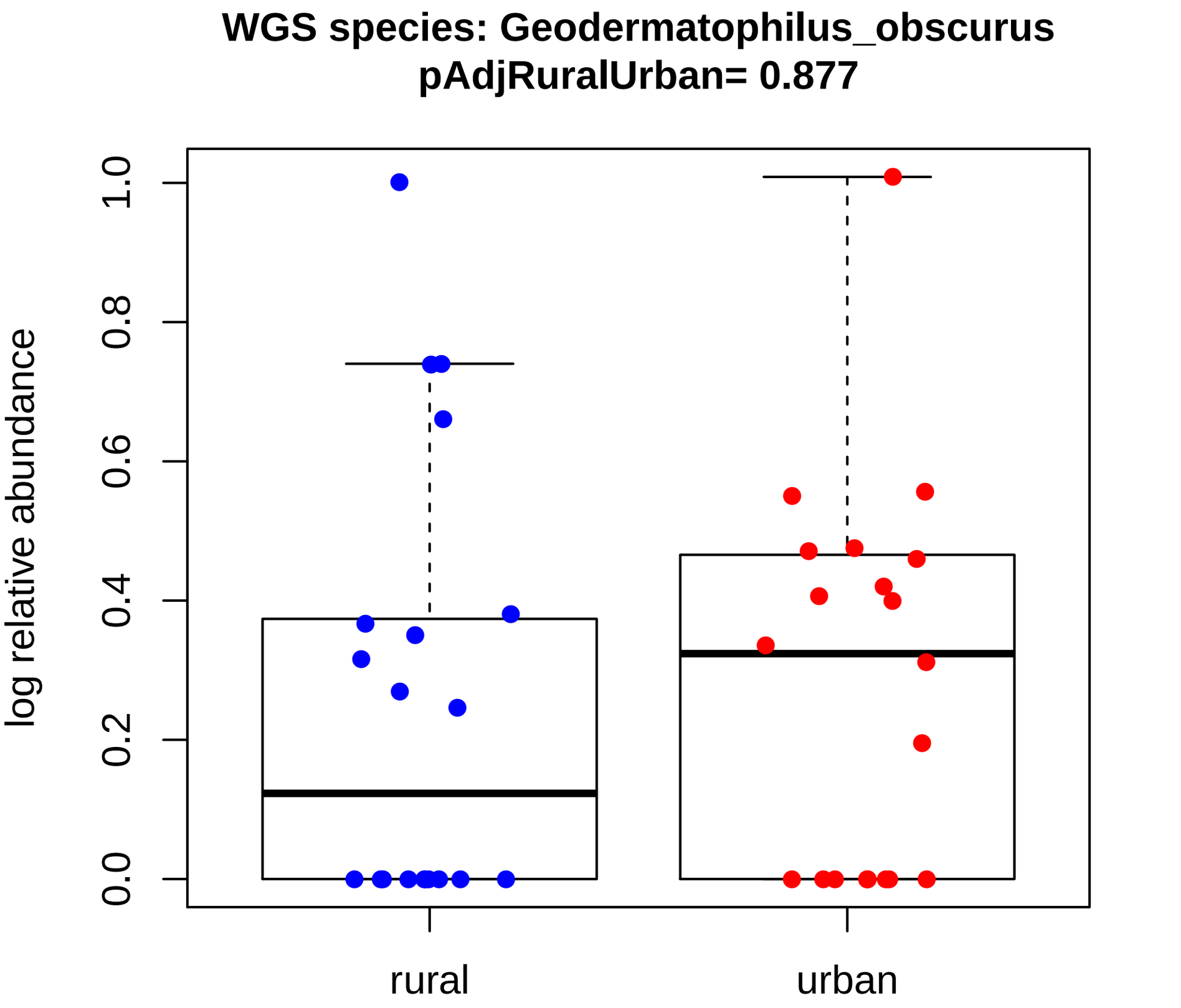

WGS species: Erwinia_pyrifoliae
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

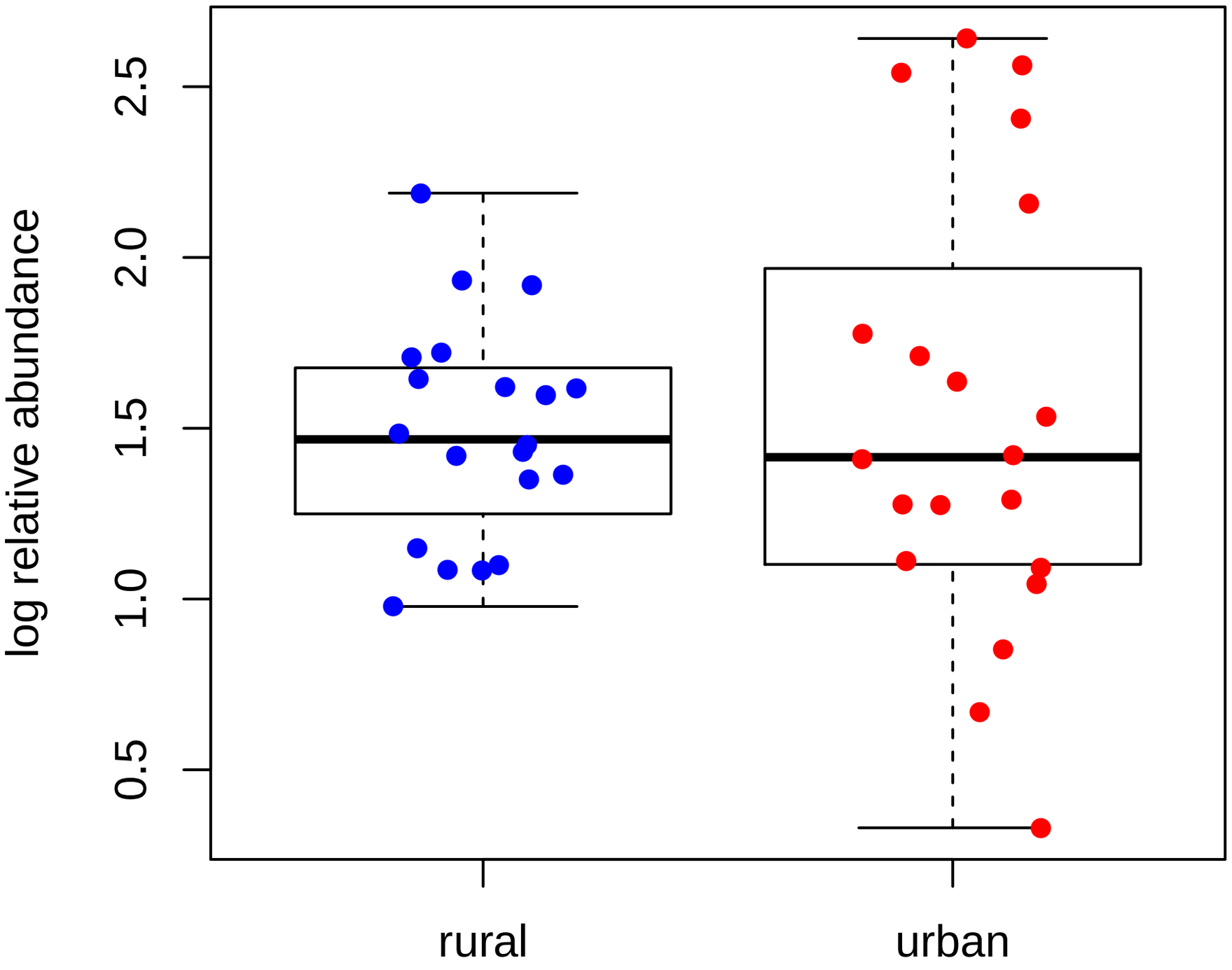

WGS species: Thermus_oshimai
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

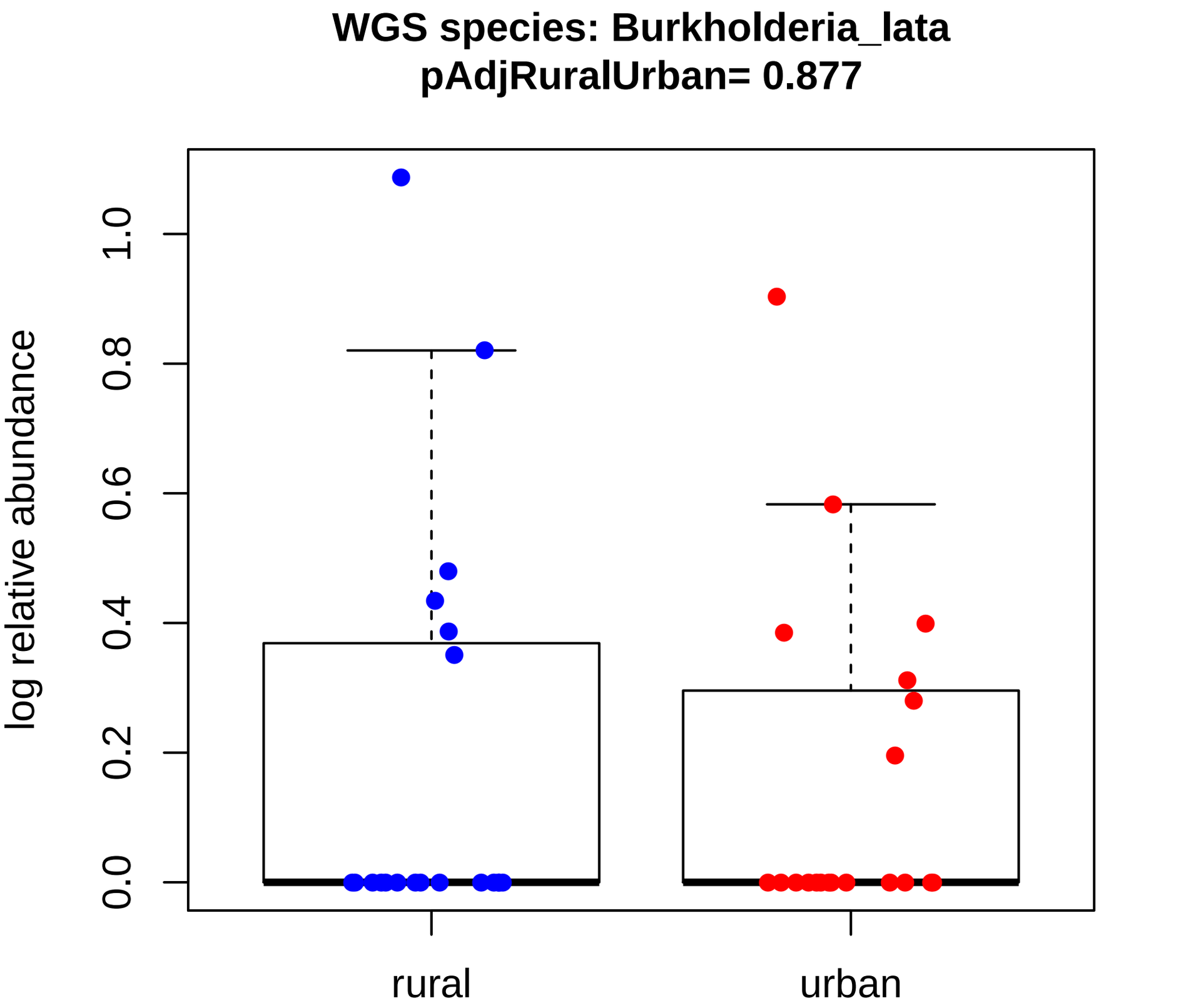

WGS species: Burkholderia_ambifaria
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

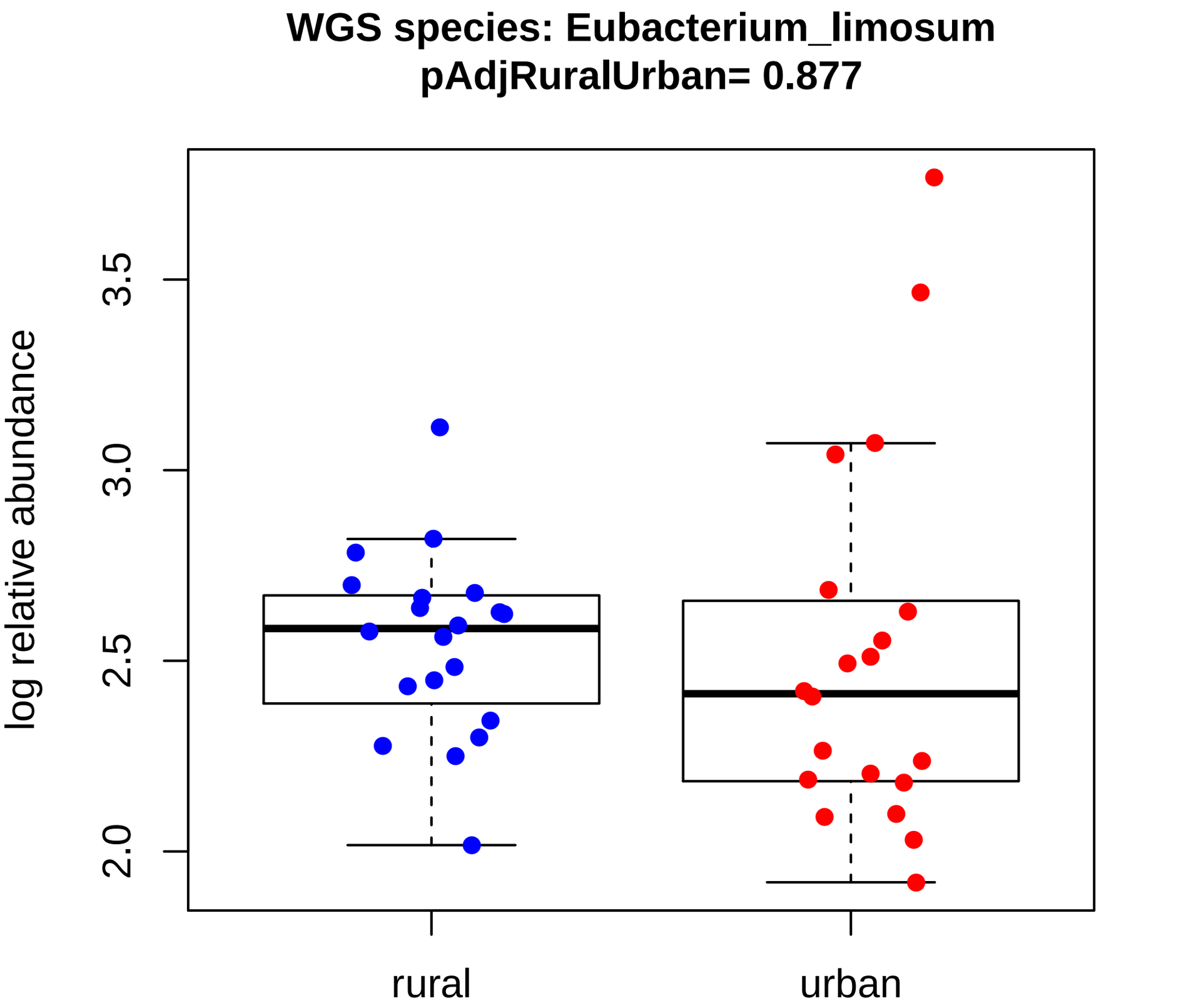

WGS species: Paenibacillus_mucilaginosus
pAdjRuralUrban= 0.877
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

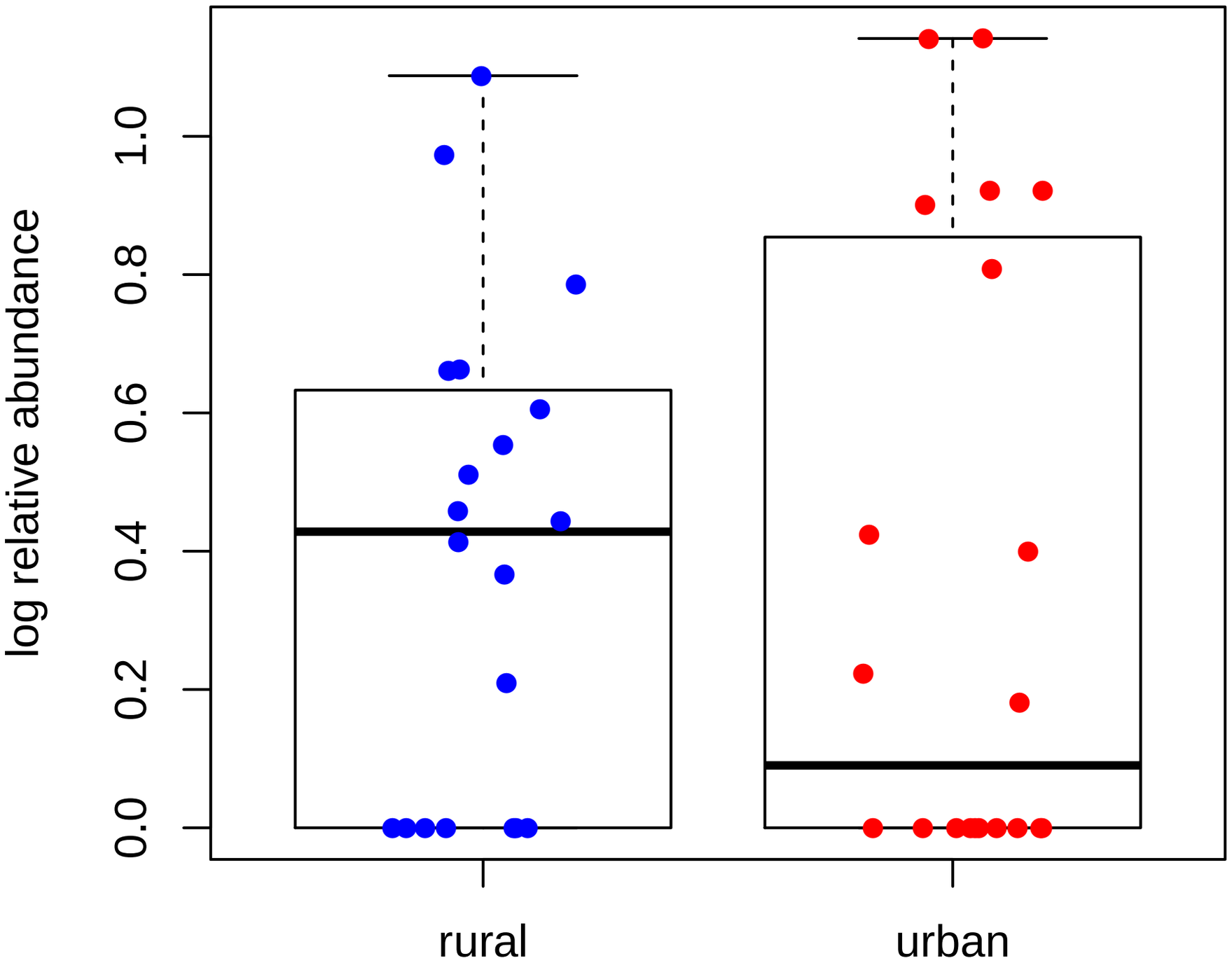

WGS species: Thalassolituus_oleivorans
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

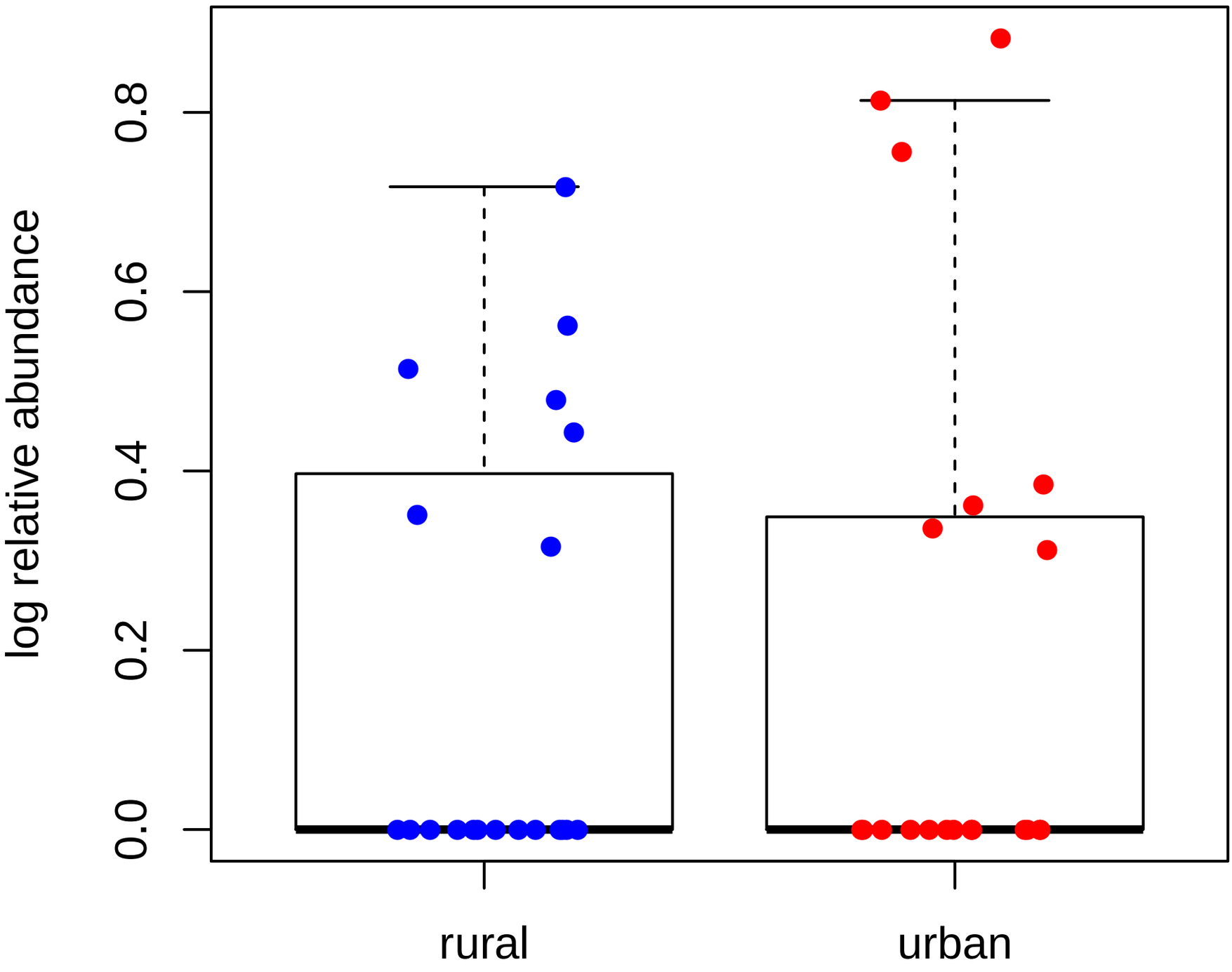

WGS species: Geodermatophilus_obscurus
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

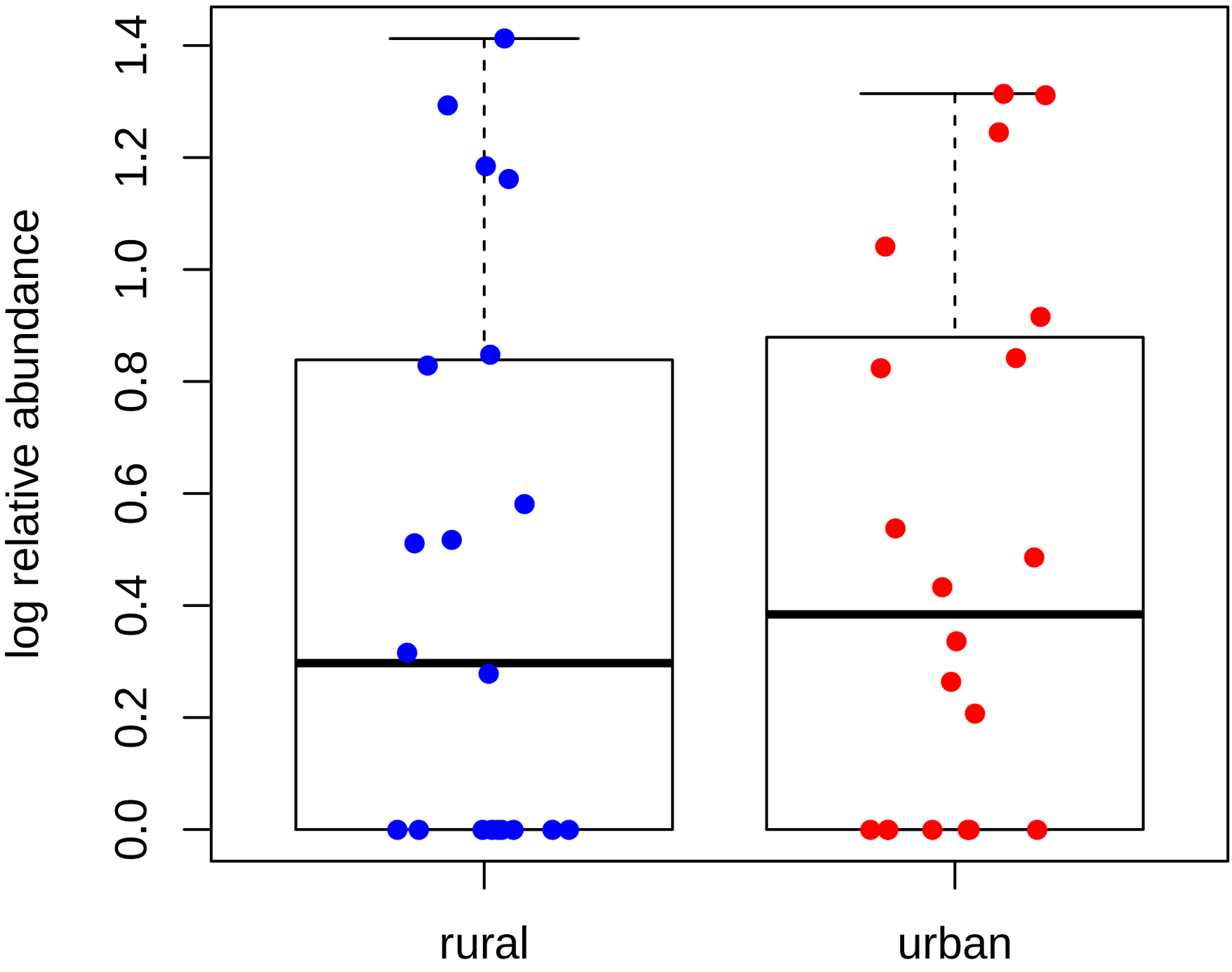

WGS species: Eggerthella_sp._YY7918
pAdjRuralUrban= 0.877
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

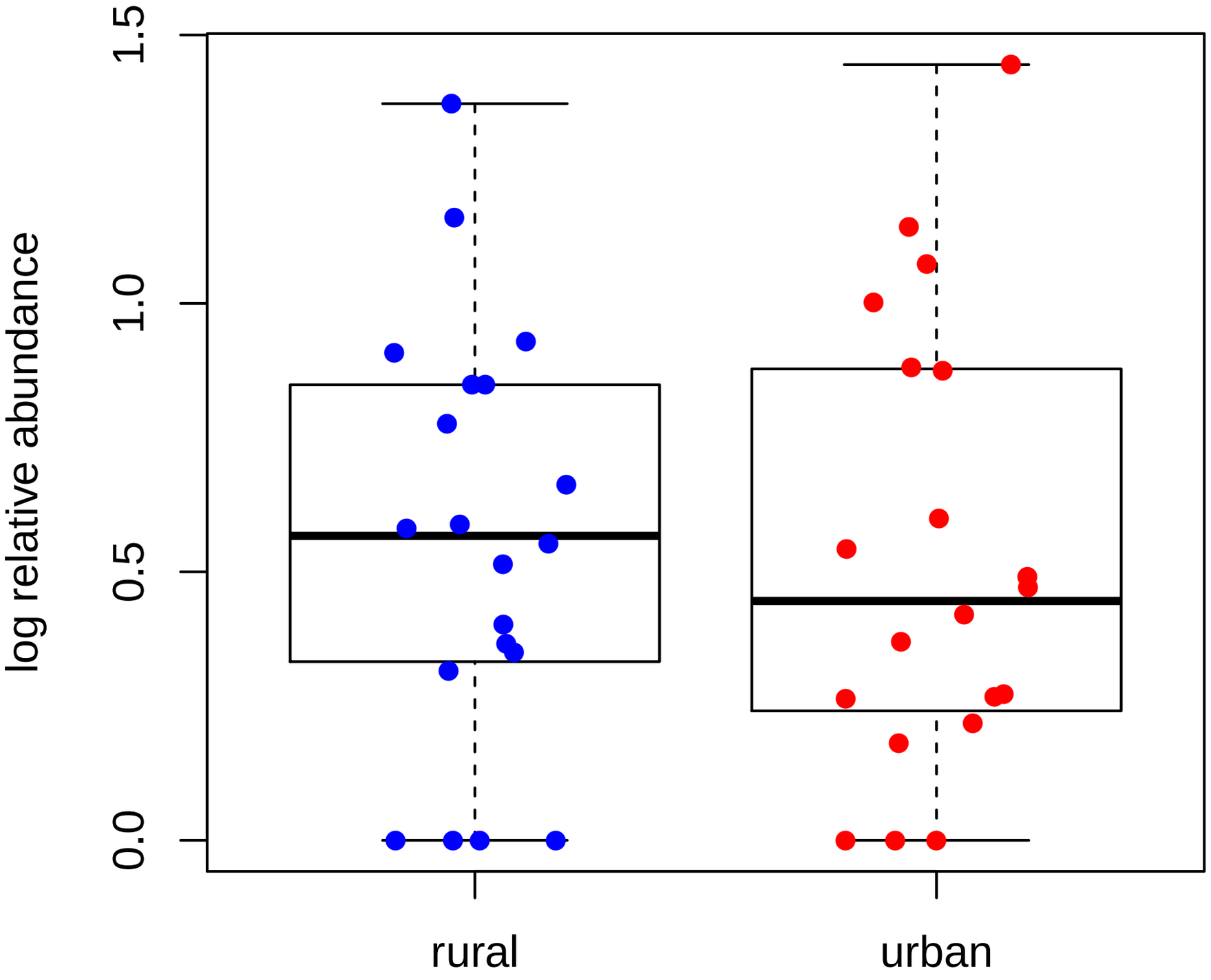

WGS species: Burkholderia_lata
pAdjRuralUrban= 0.877
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

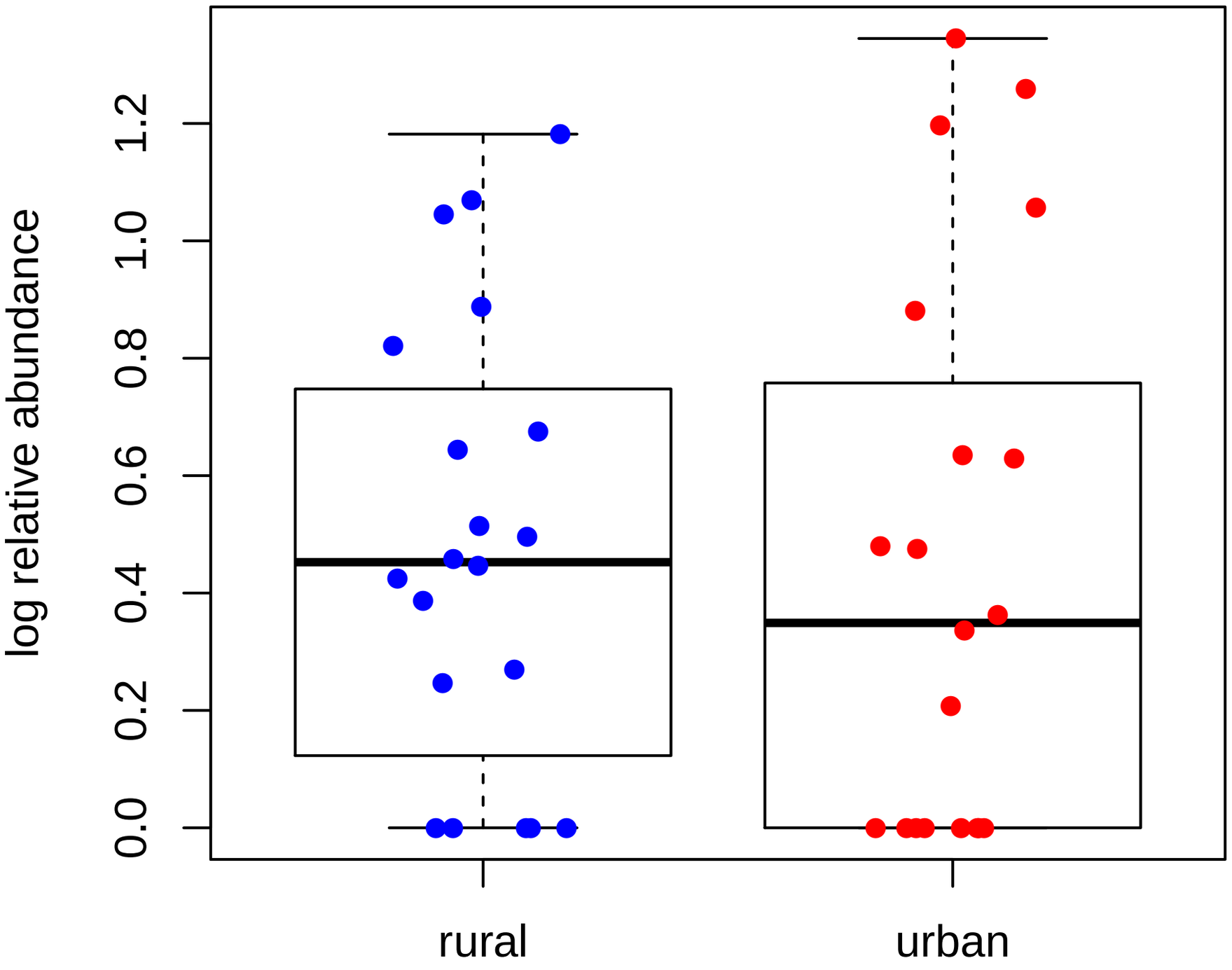

WGS species: Eubacterium_limosum
pAdjRuralUrban= 0.877
log relative abundance
2.0
2.5
3.0
3.5
rural
urban

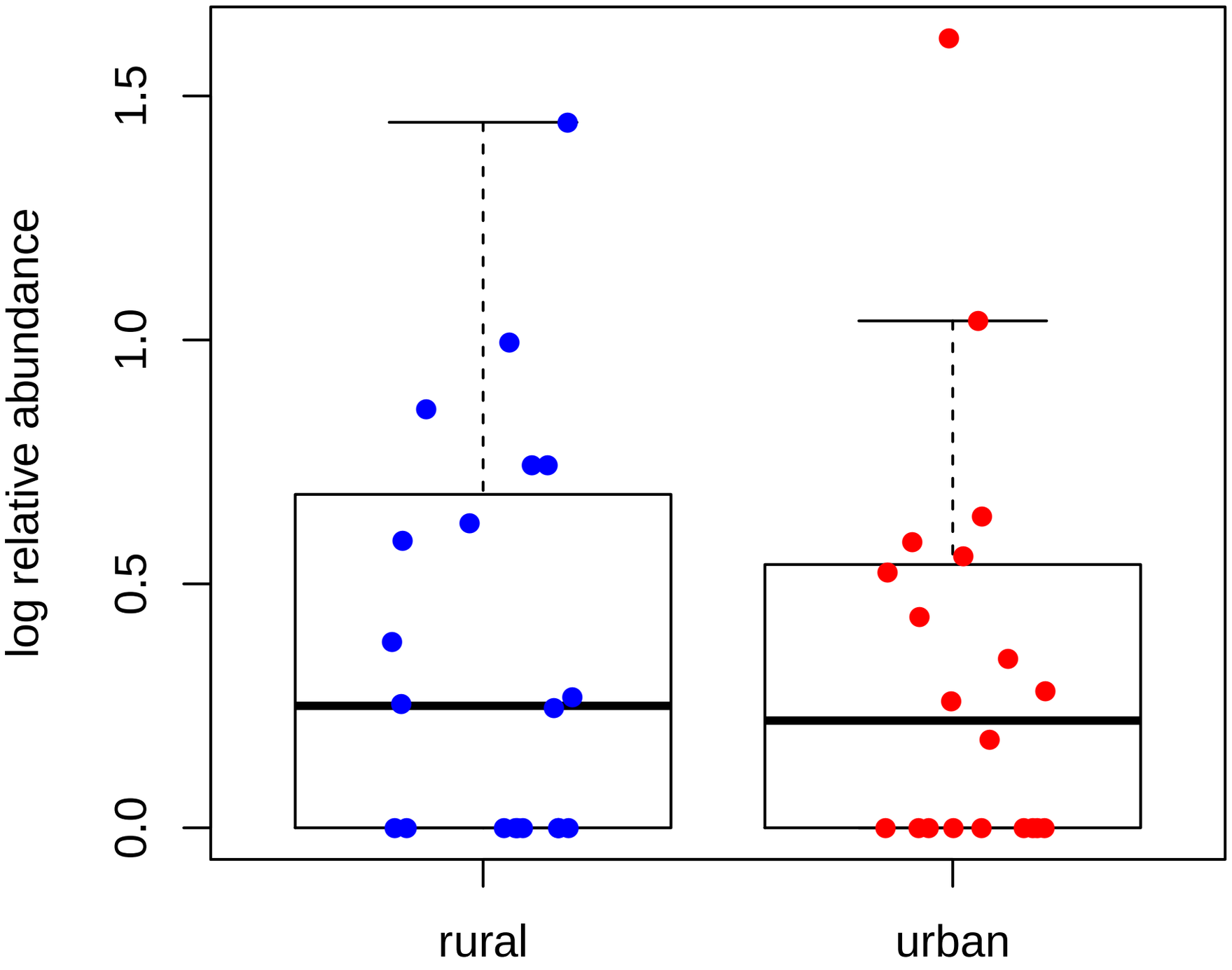

WGS species: Methylomonas_methanica
pAdjRuralUrban= 0.886
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

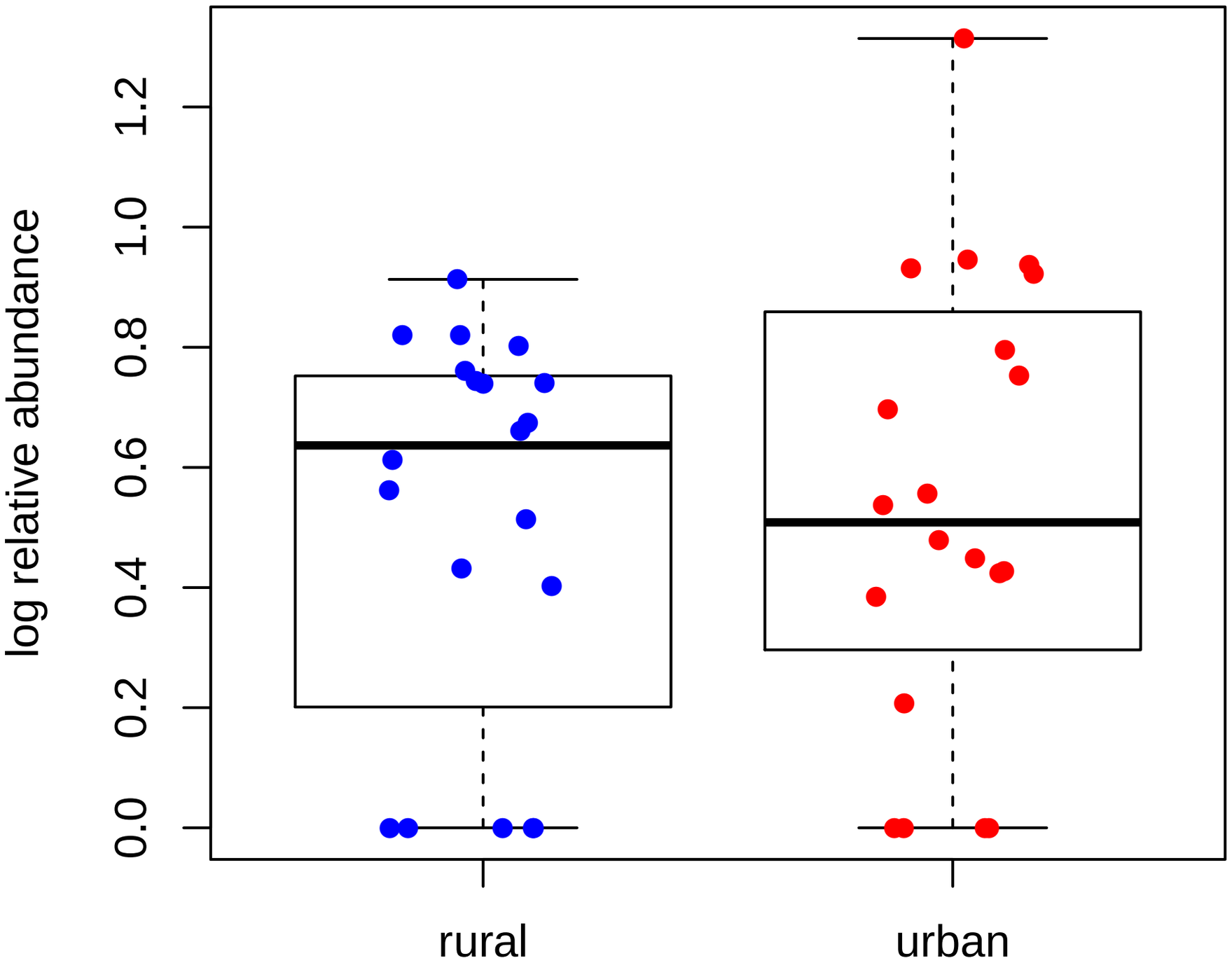

WGS species: Shewanella_sp._W3.18.1
pAdjRuralUrban= 0.886
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

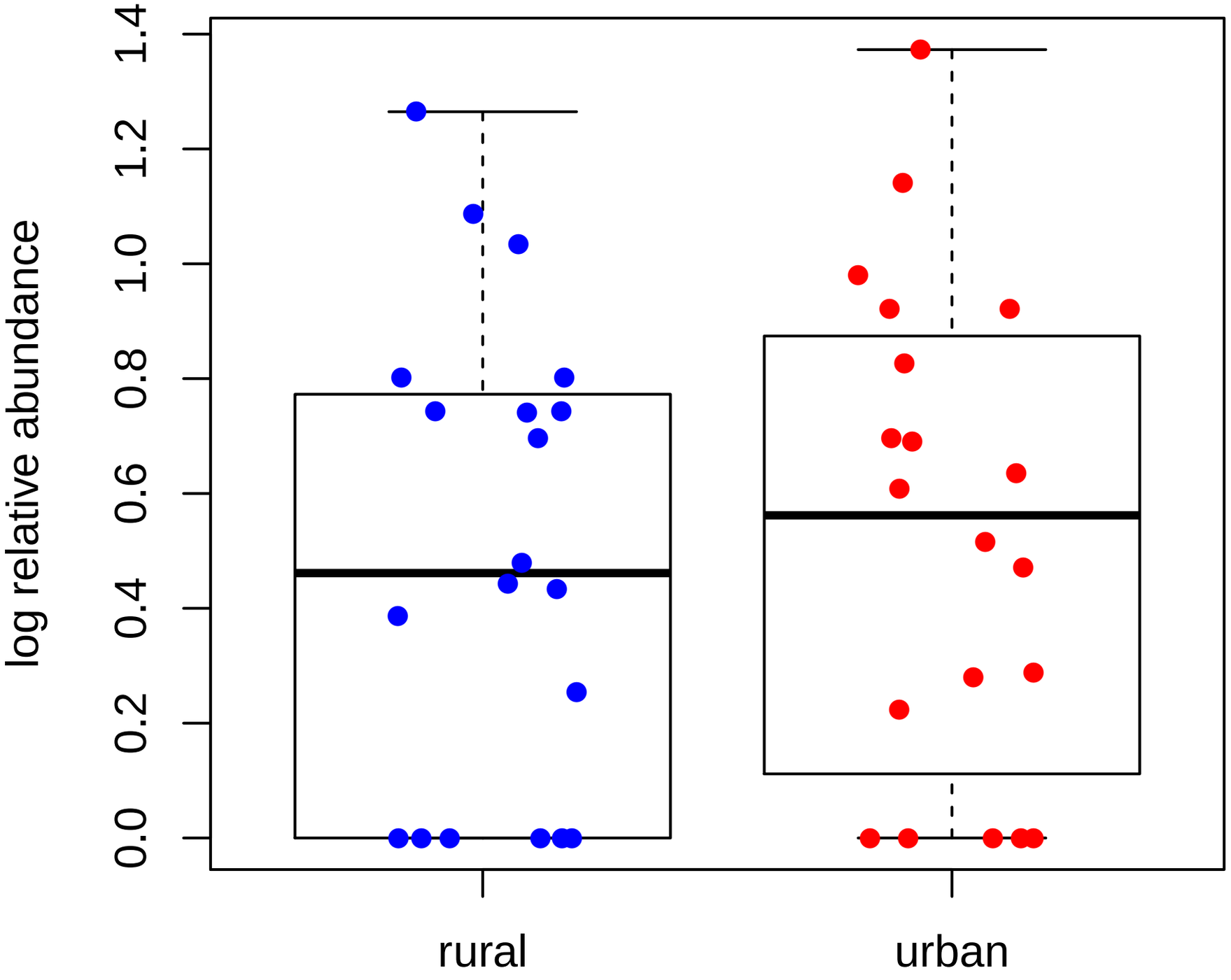

WGS species: Spiribacter_salinus
pAdjRuralUrban= 0.886
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

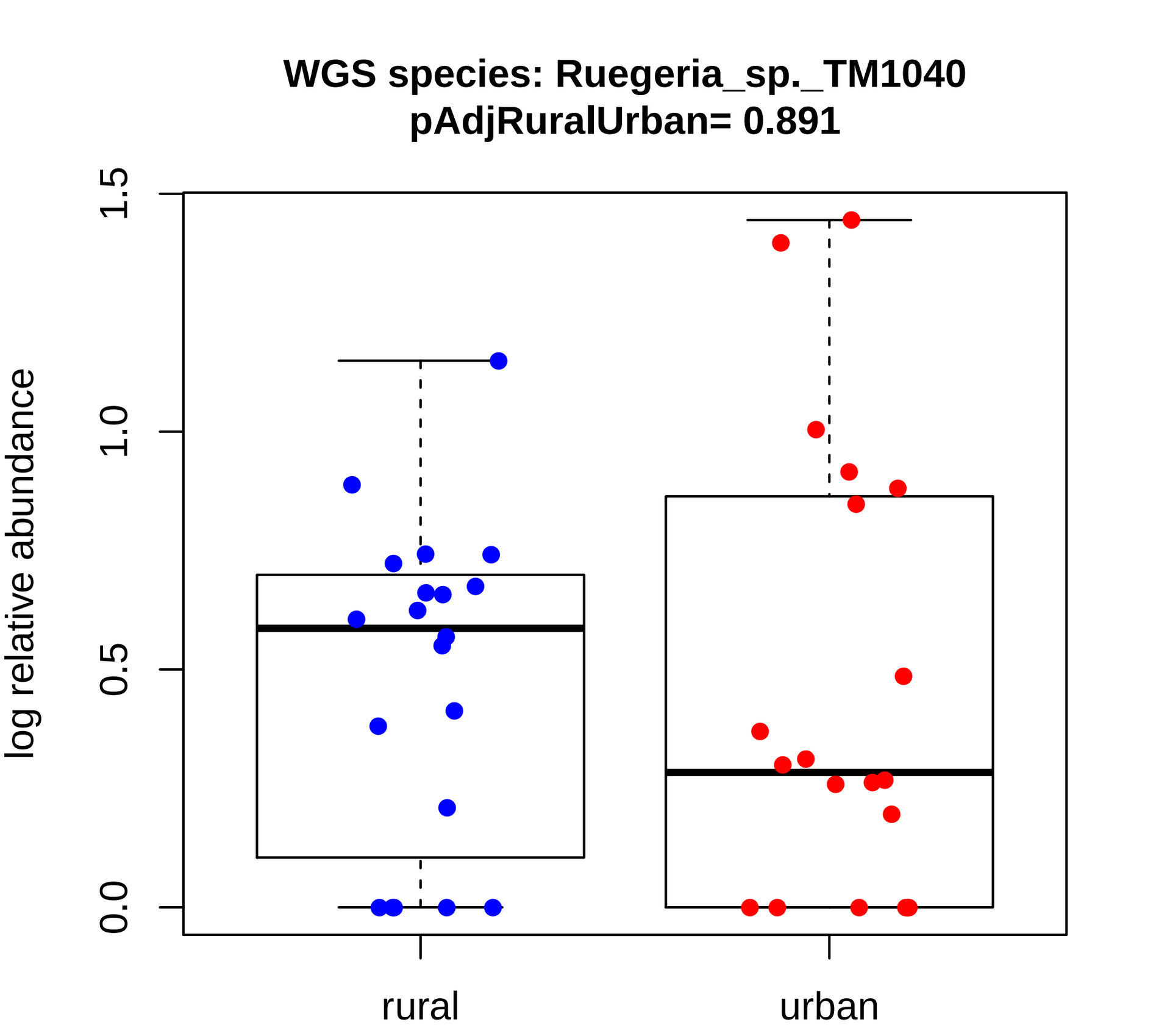

WGS species: Starkeya_novella
pAdjRuralUrban= 0.889
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

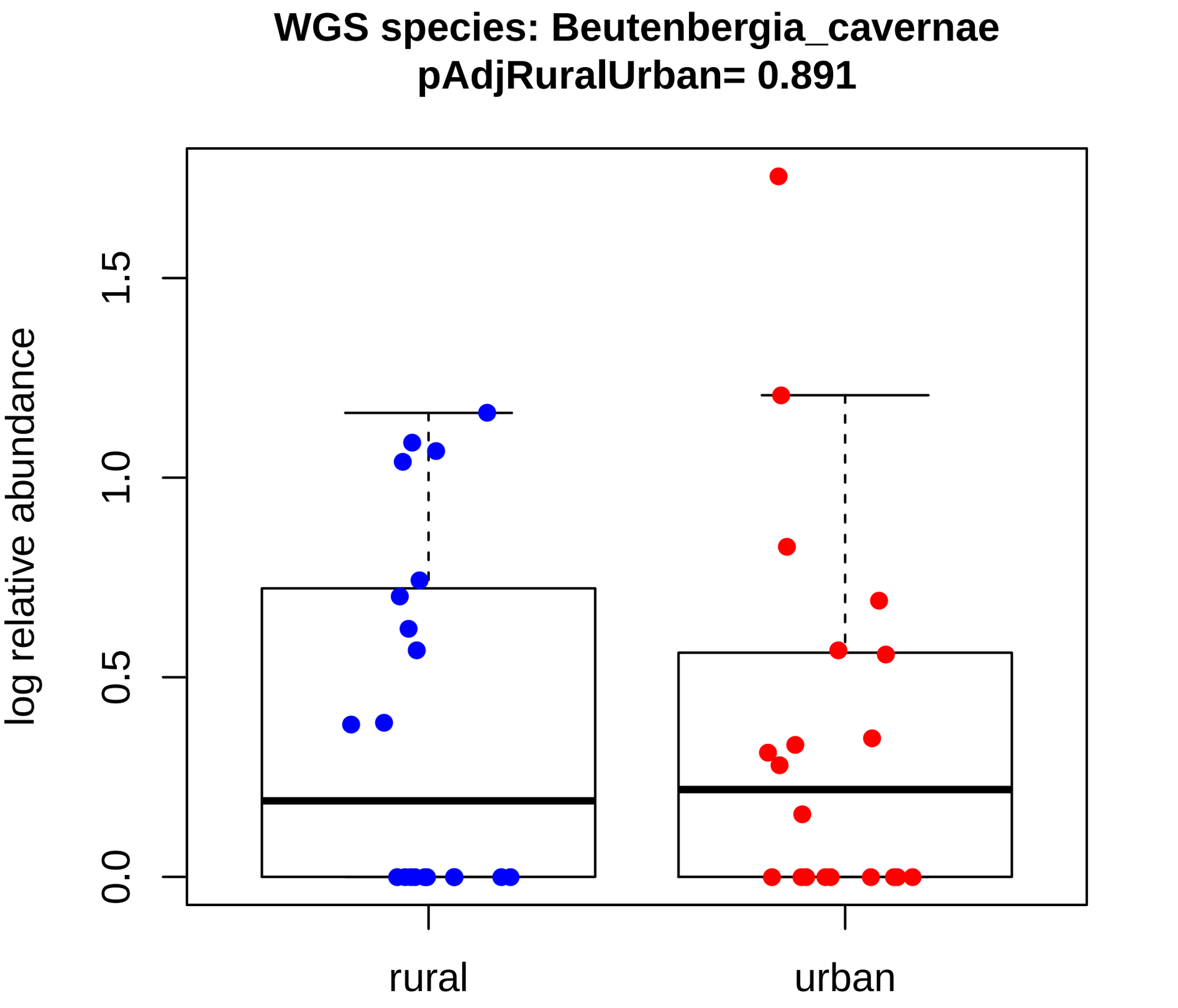

WGS species: Segniliparus_rotundus
pAdjRuralUrban= 0.889
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

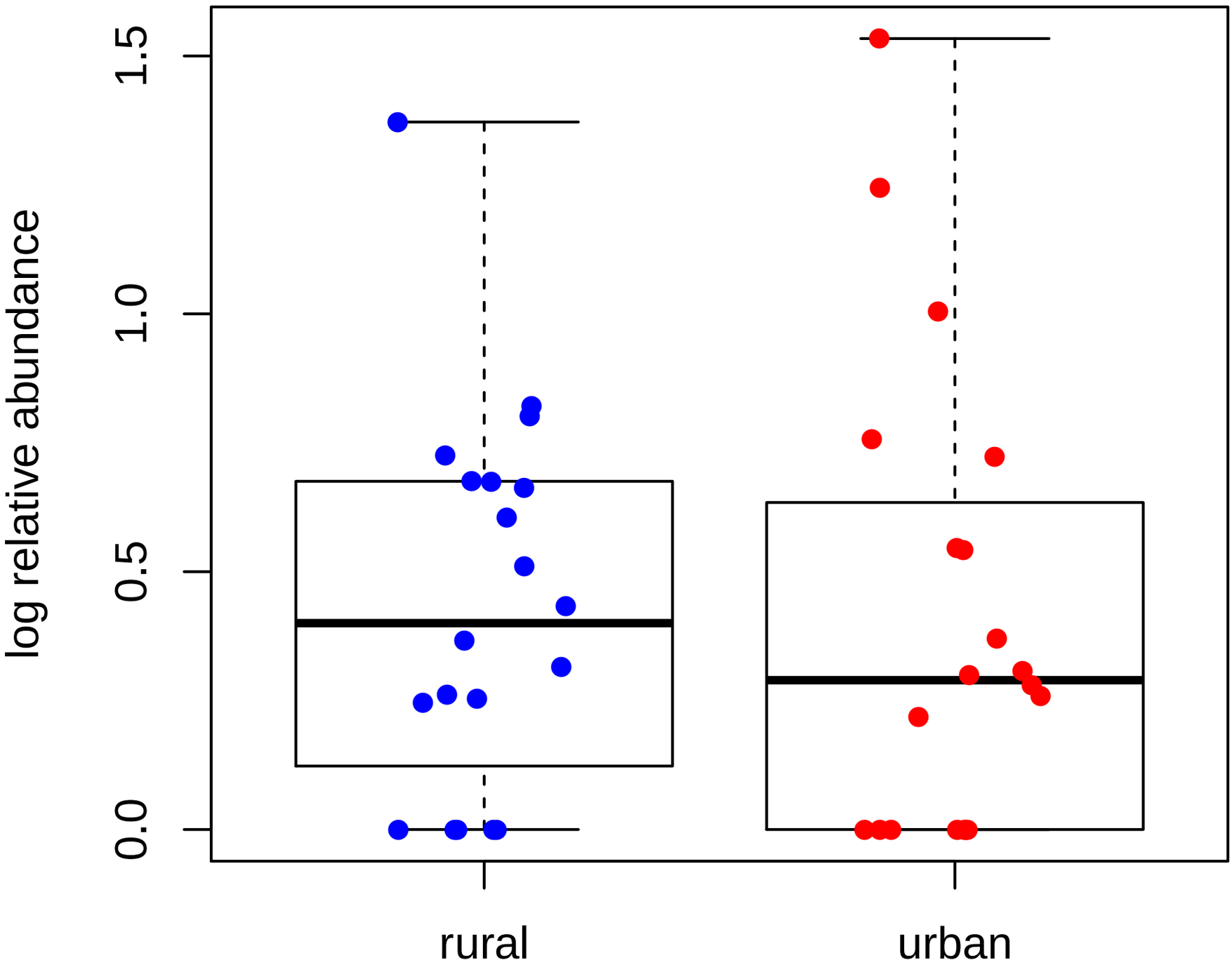

WGS species: Aequorivita_sublithincola
pAdjRuralUrban= 0.889
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

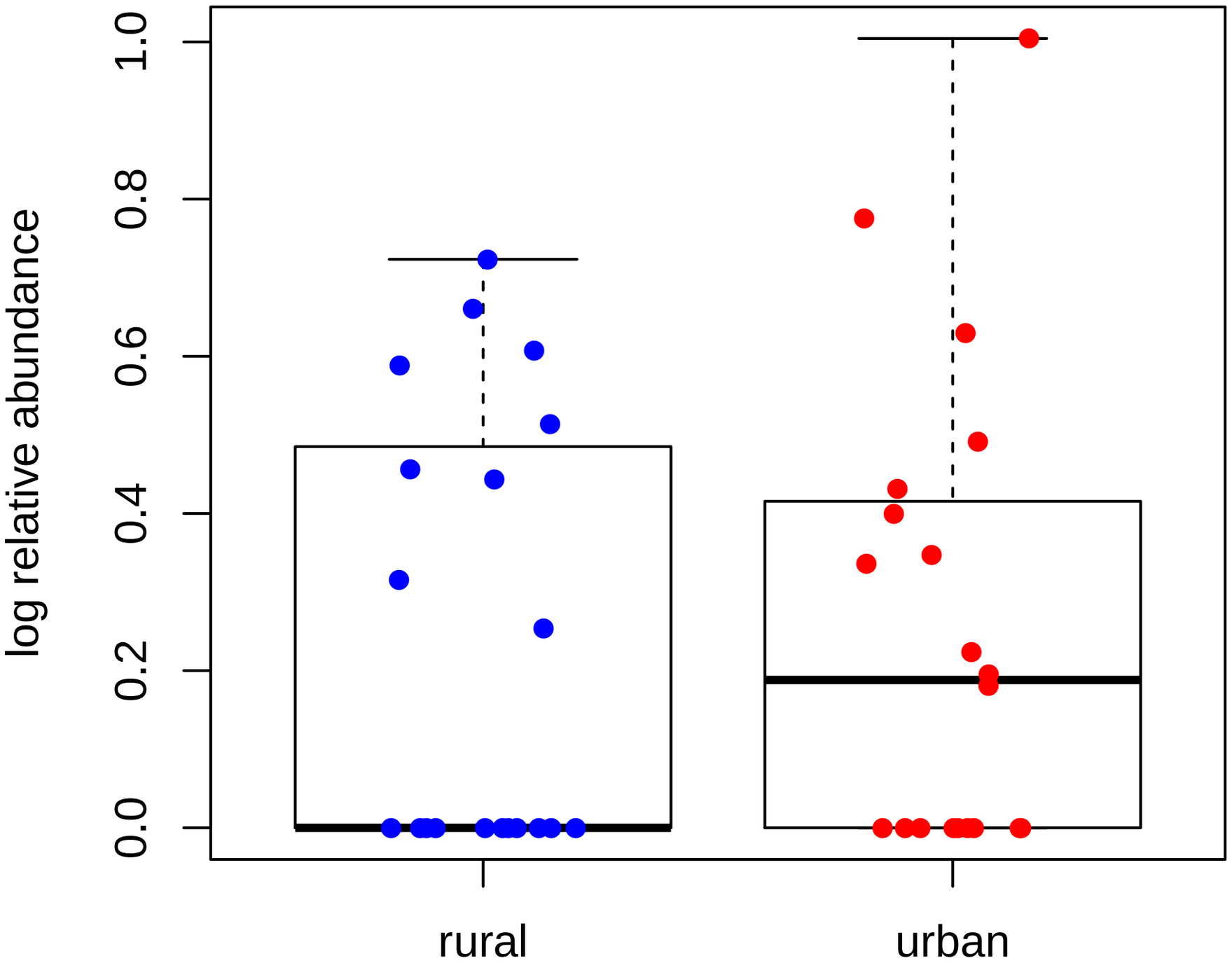

WGS species: Pseudoxanthomonas_spadix
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

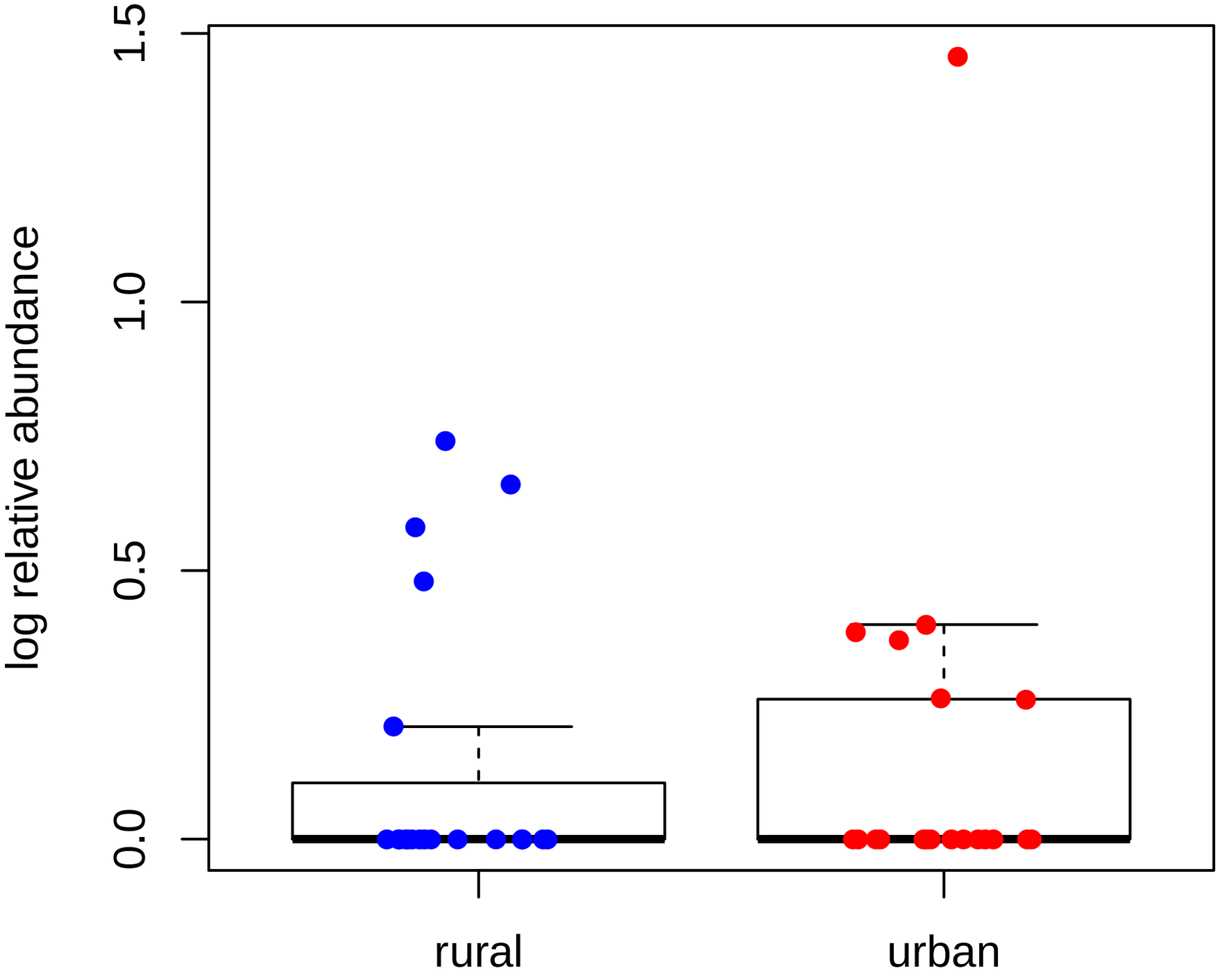

WGS species: Teredinibacter_turnerae
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

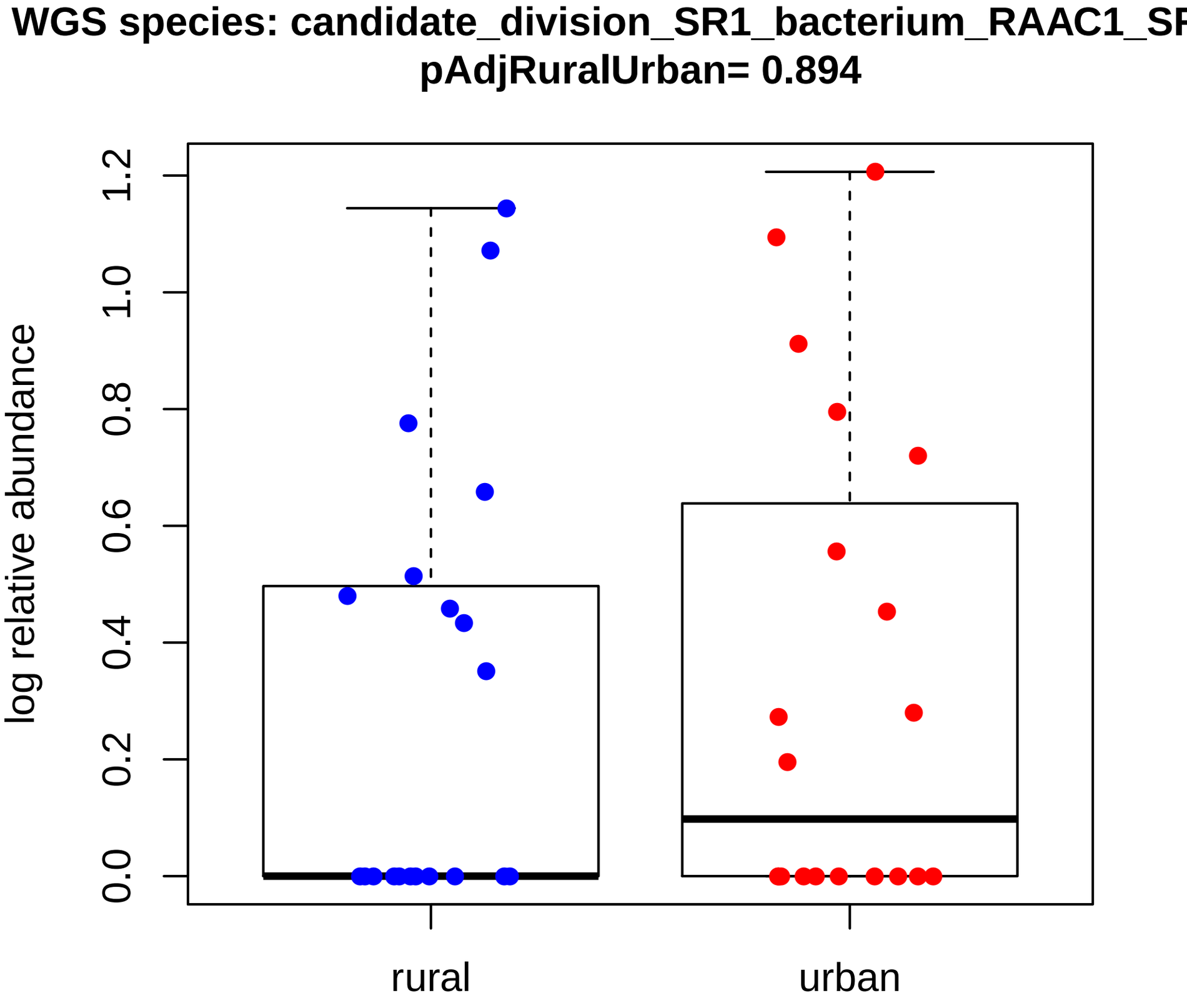

WGS species: Ruegeria_sp._TM1040
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

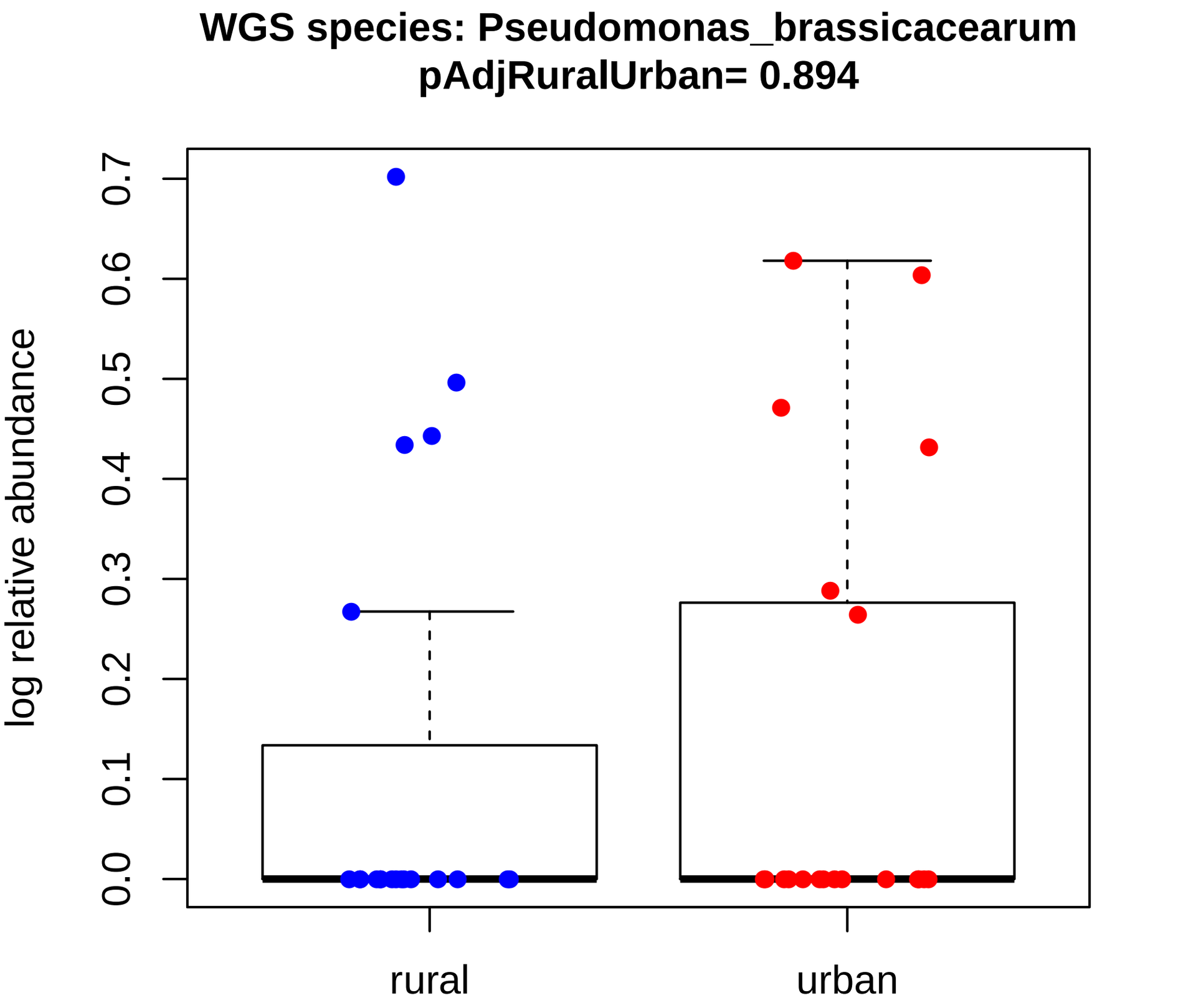

WGS species: Beutenbergia_cavernae
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

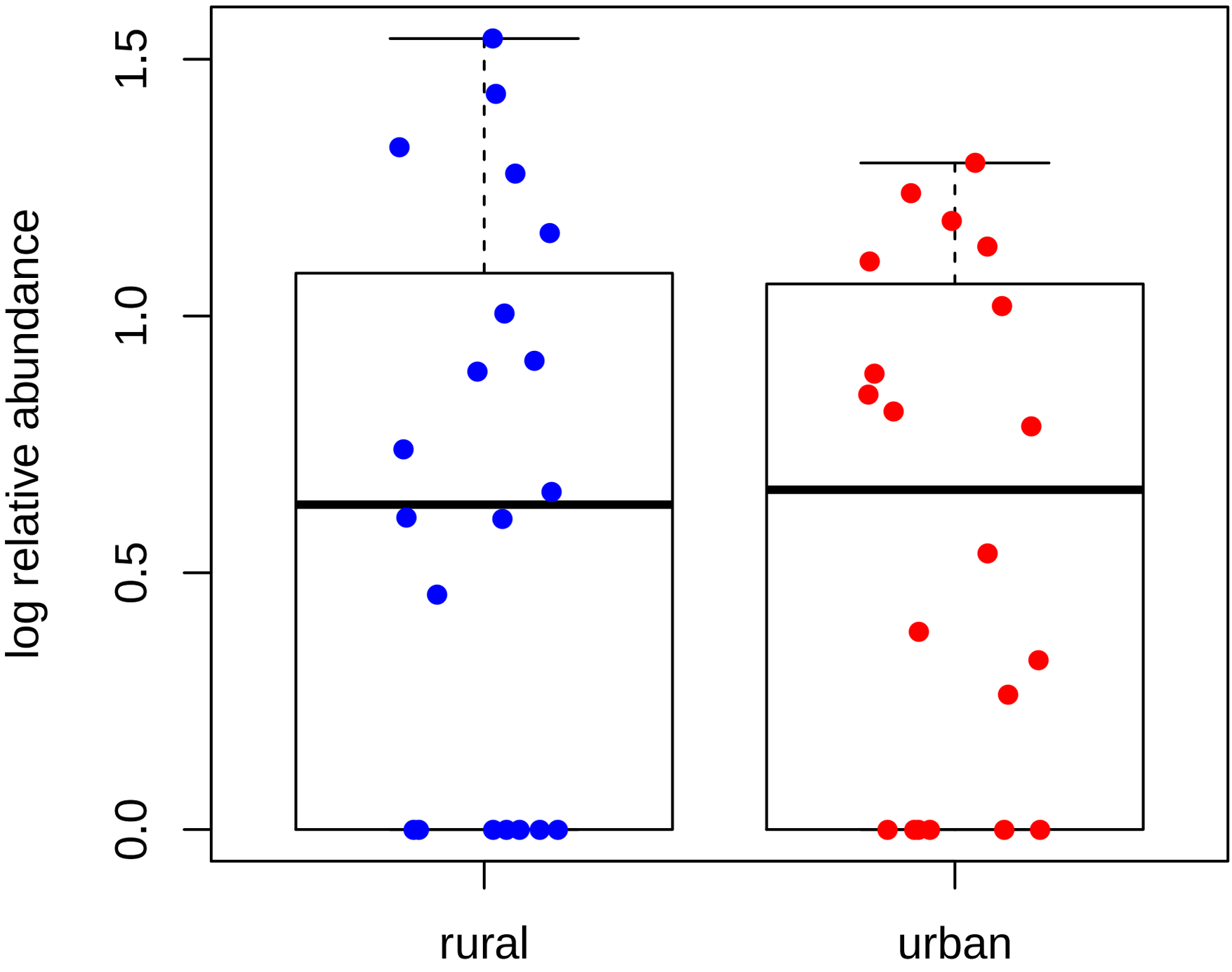

WGS species: Frankia_alni
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

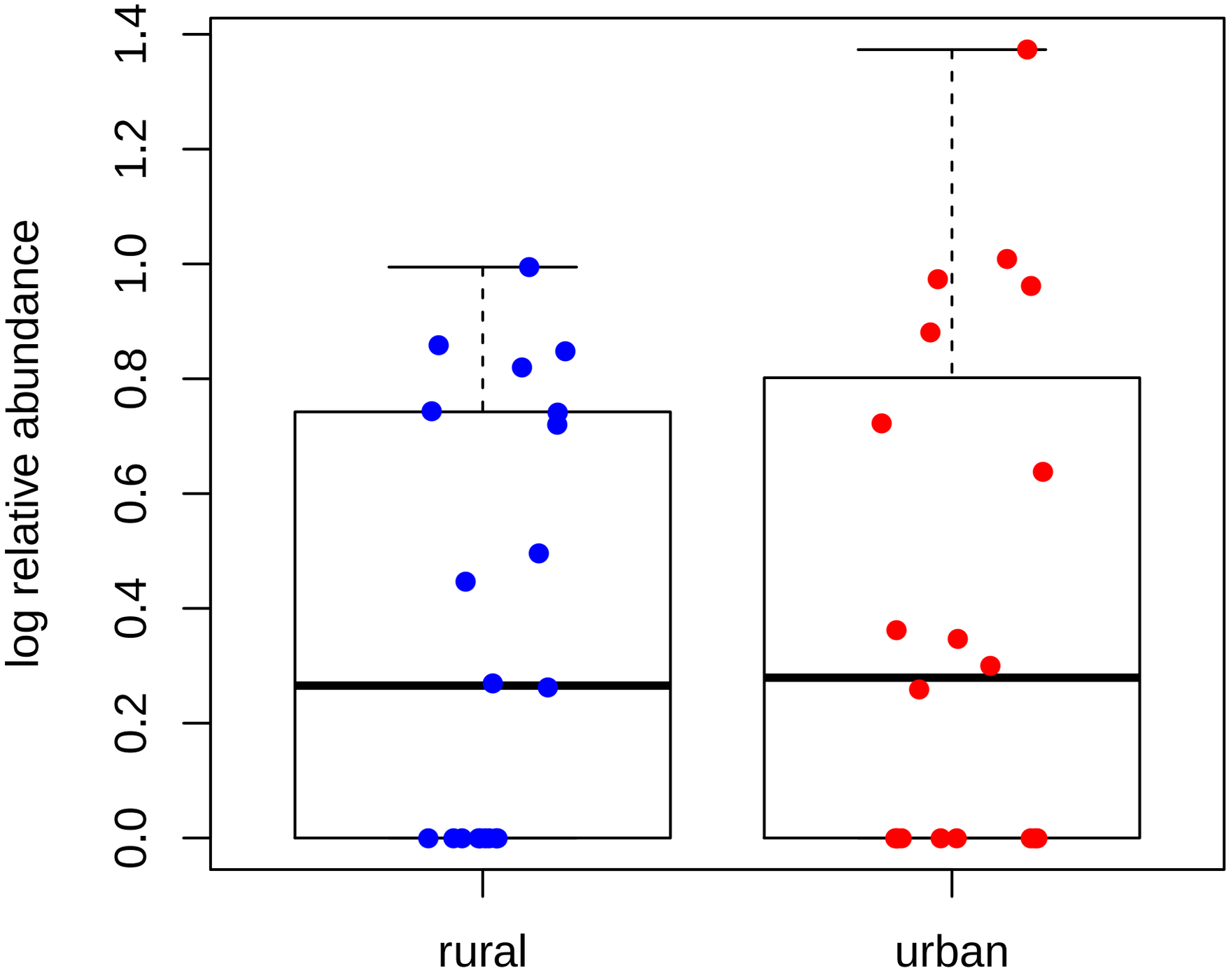

WGS species: Streptomyces_violaceusniger
pAdjRuralUrban= 0.891
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

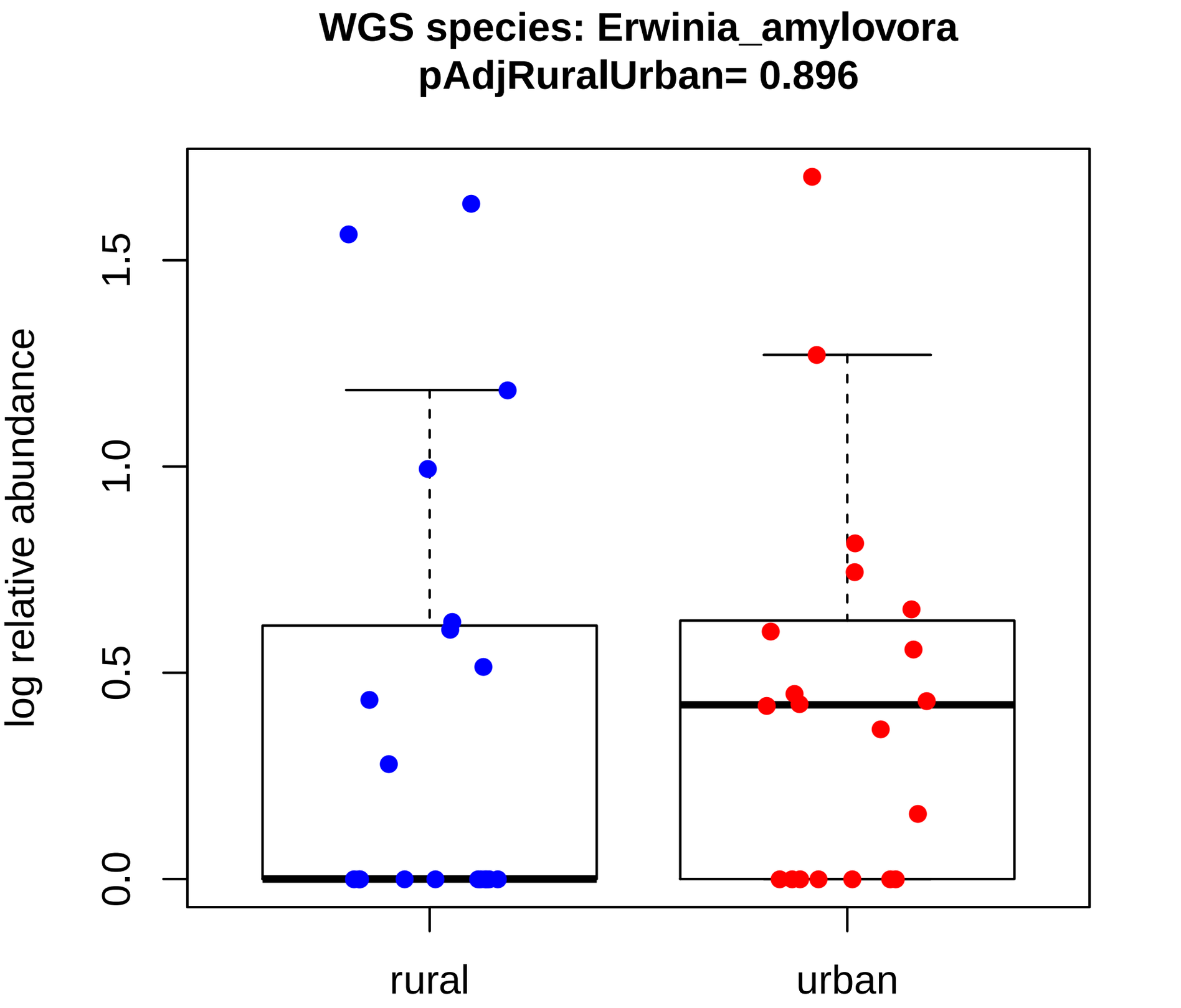

WGS species: Helicobacter_cetorum
pAdjRuralUrban= 0.894
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

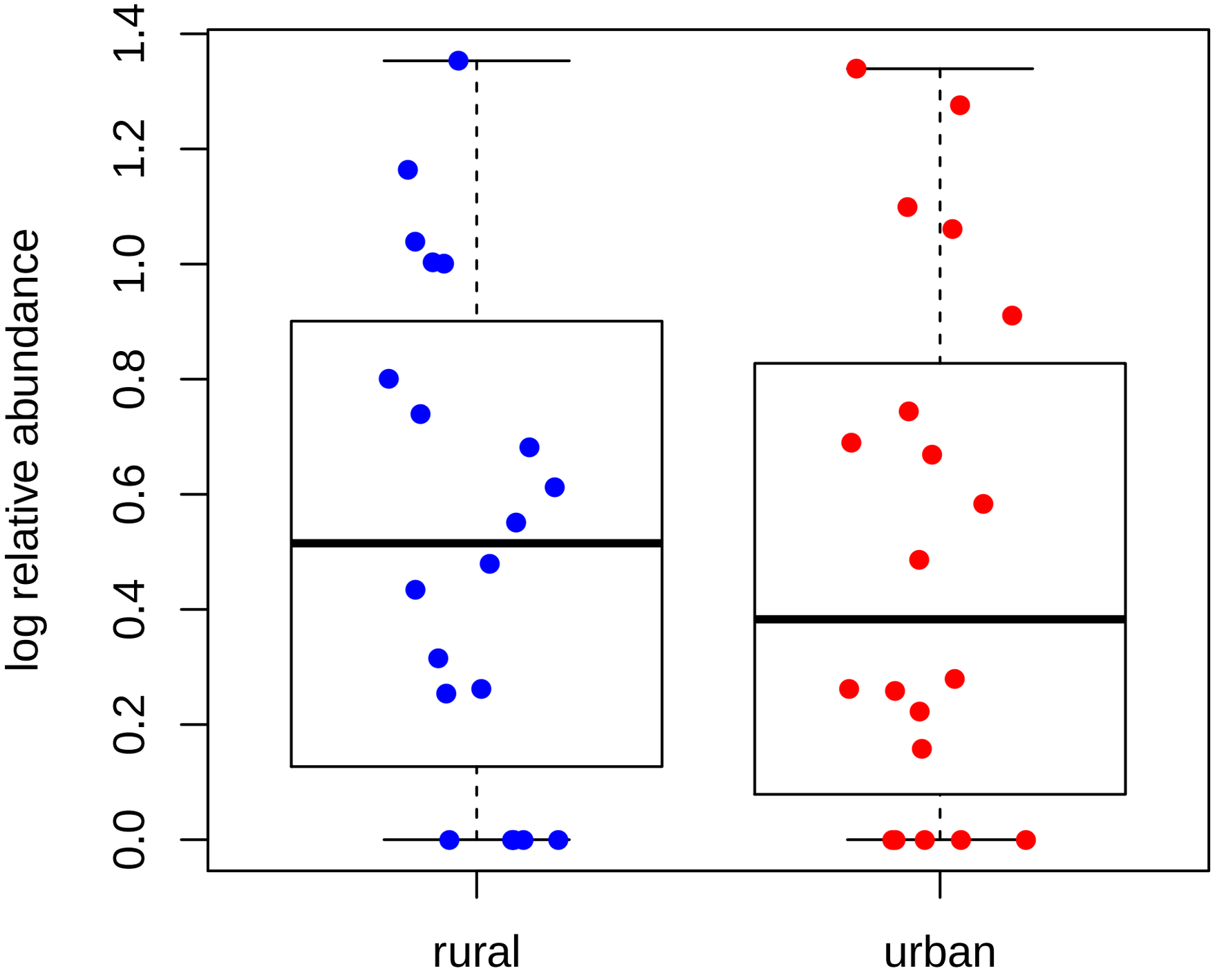

WGS species: candidate_division_SR1_bacterium_RAAC1_SR
pAdjRuralUrban= 0.894
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

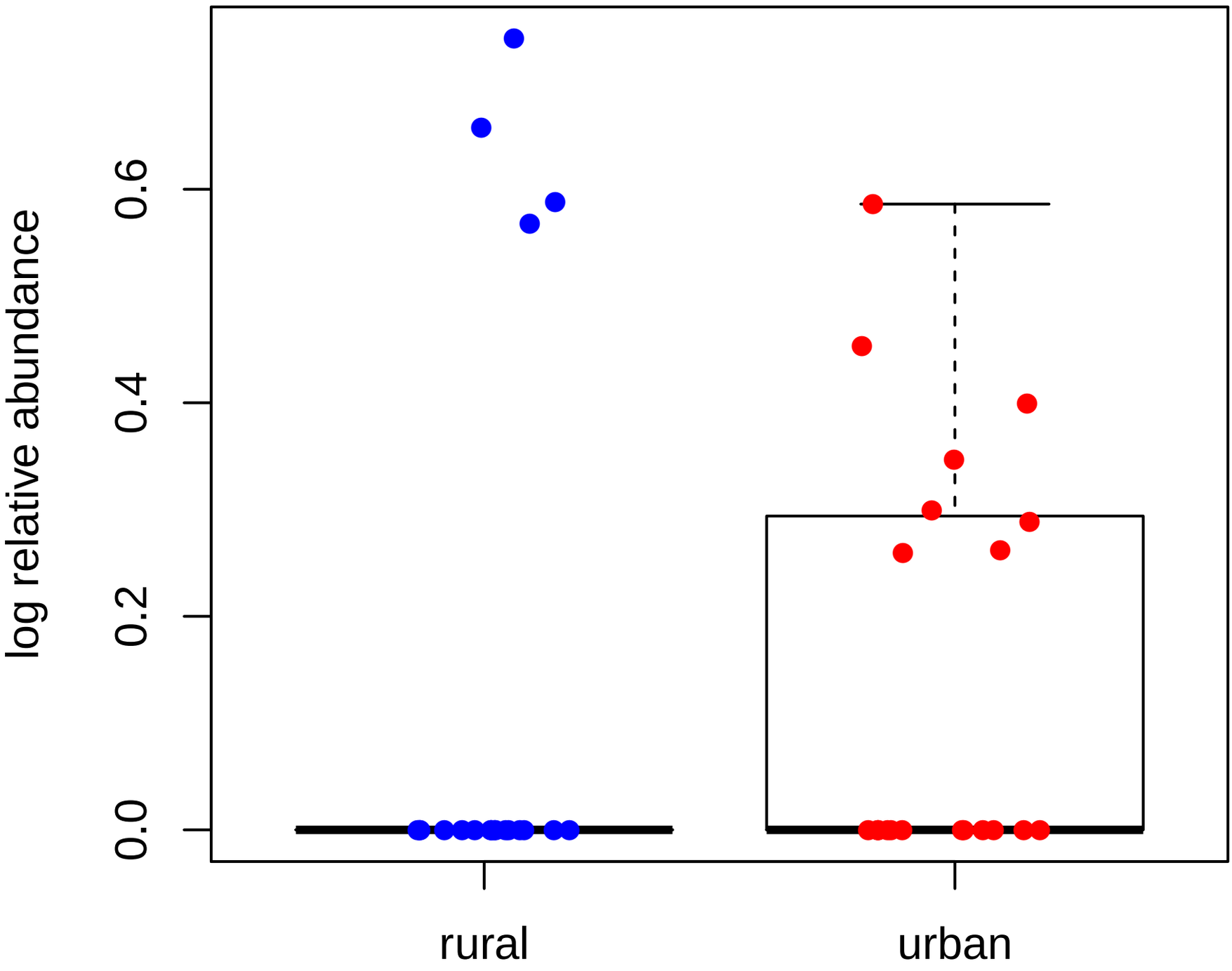

WGS species: Pseudomonas_brassicacearum
pAdjRuralUrban= 0.894
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

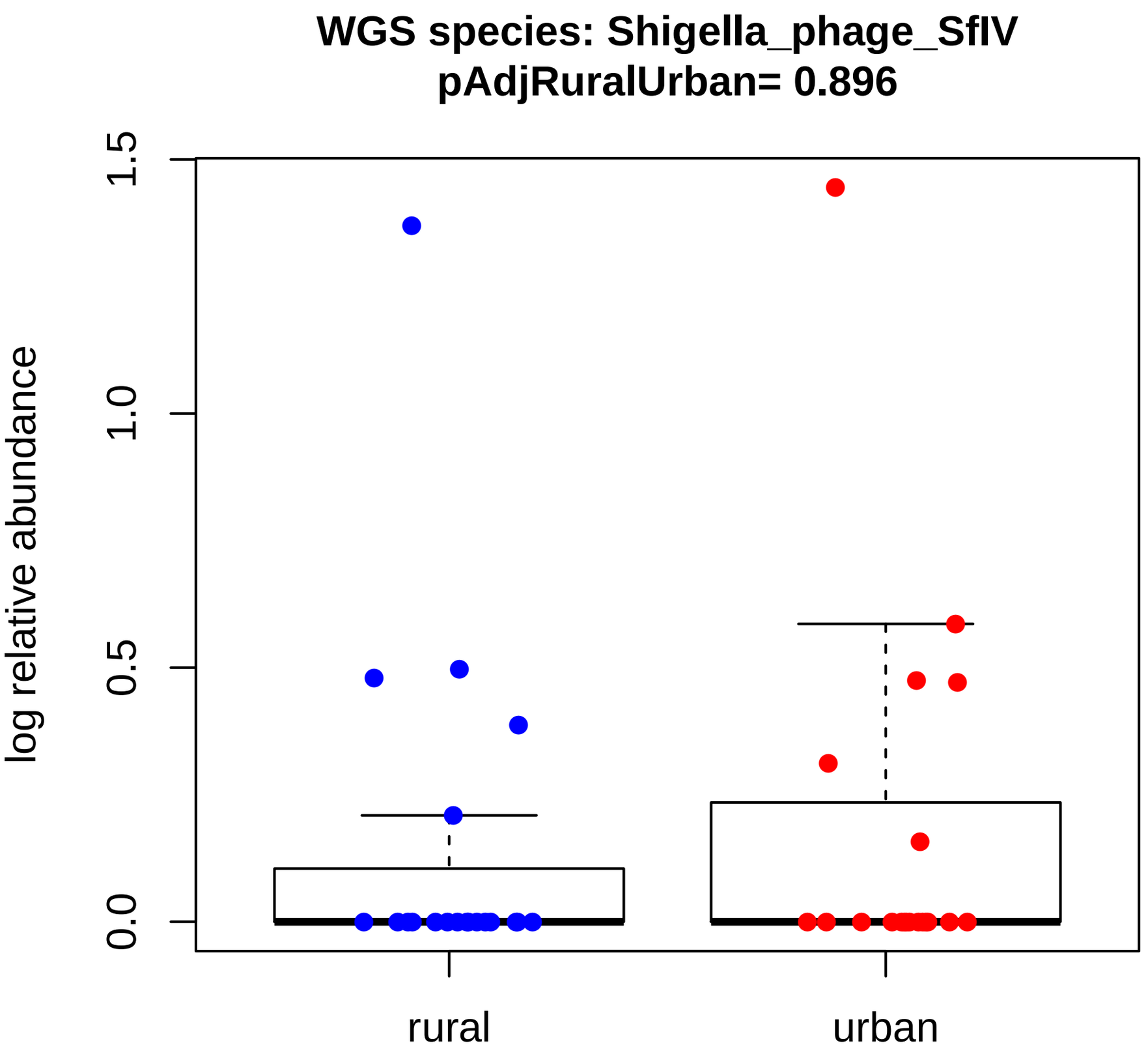

WGS species: Granulicella_tundricola
pAdjRuralUrban= 0.894
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

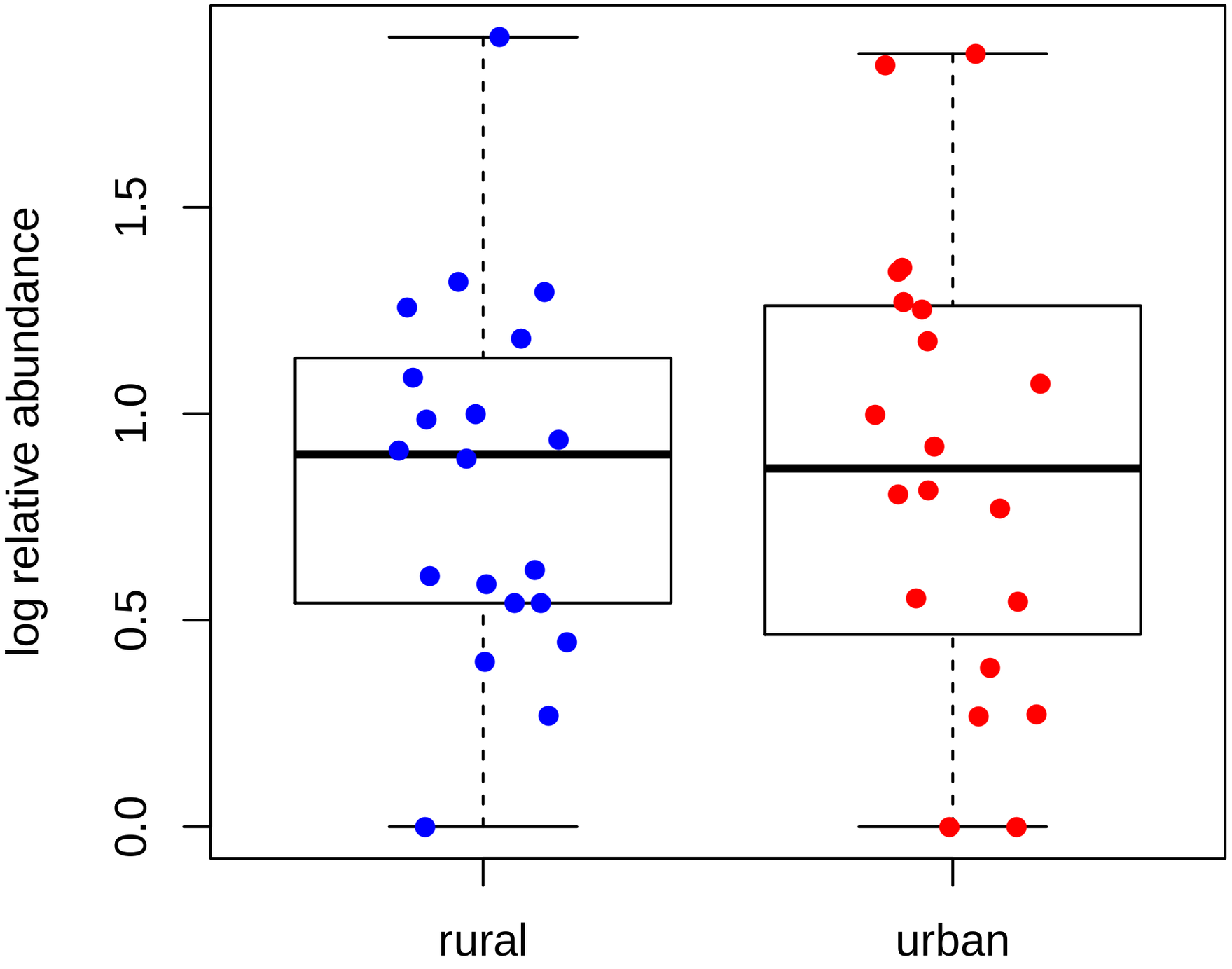

WGS species: Hyphomicrobium_sp._MC1
pAdjRuralUrban= 0.894
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

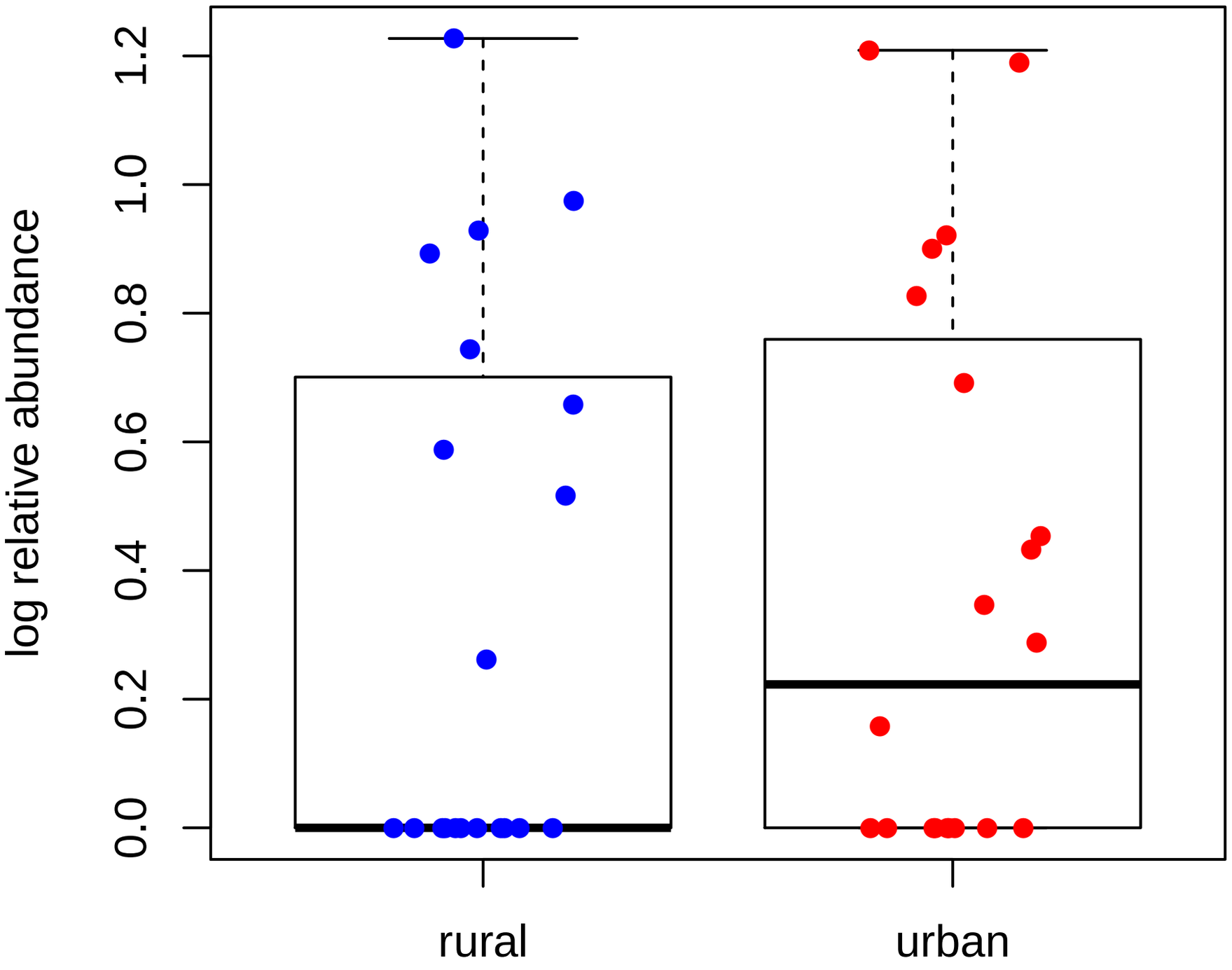

WGS species: Erwinia_amylovora
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

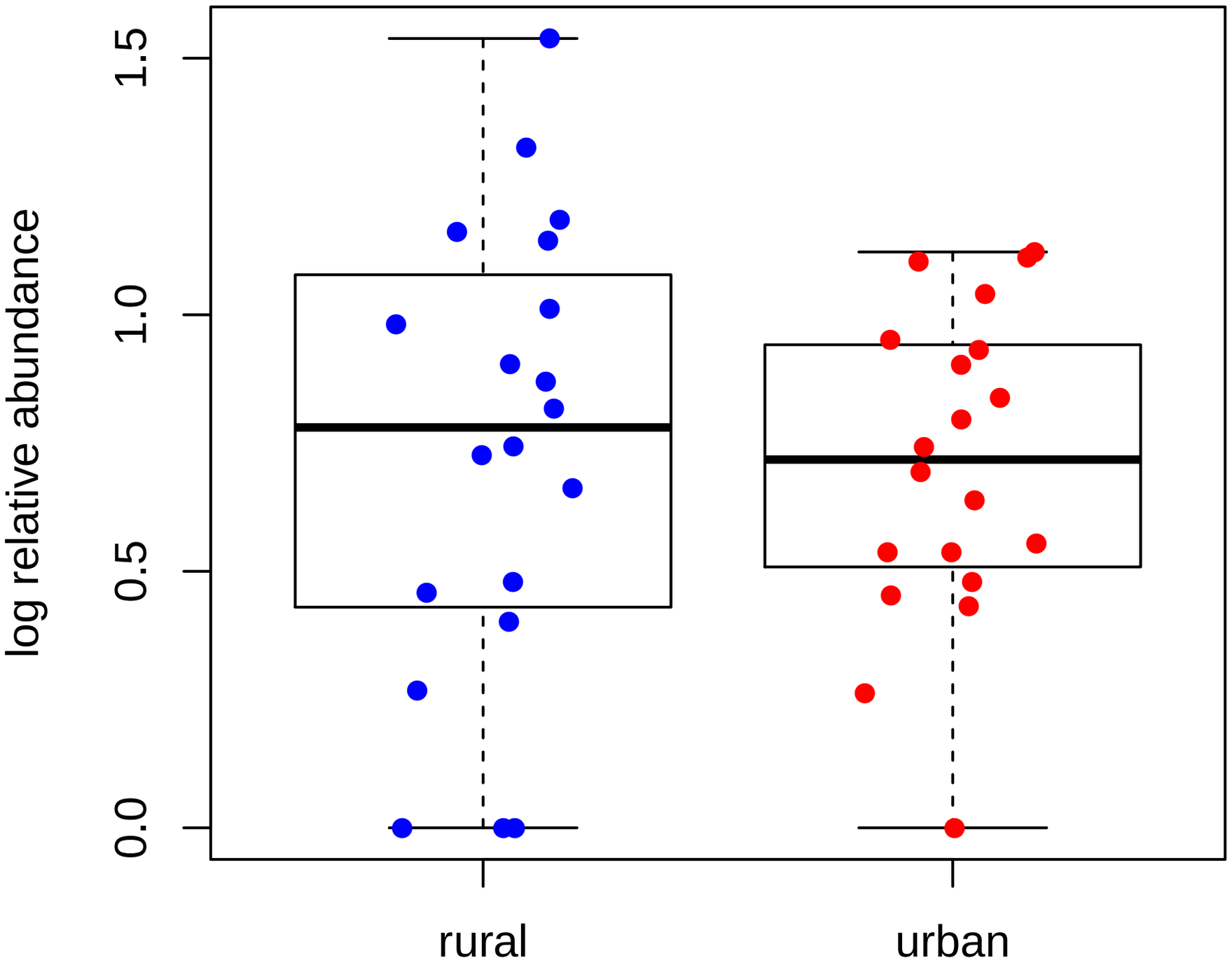

WGS species: Desulfobacca_acetoxidans
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

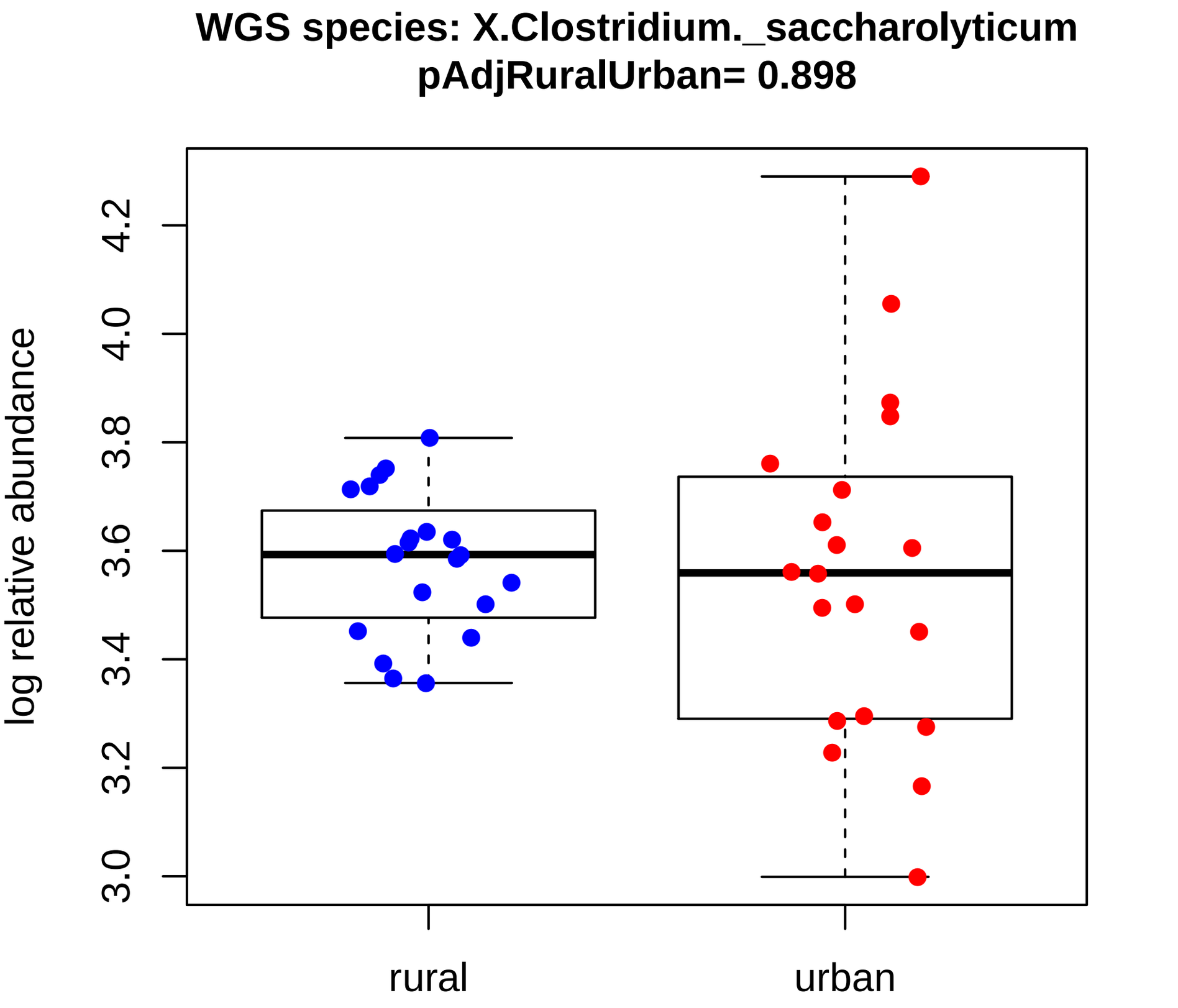

WGS species: Candidatus_Profftella_armatura
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

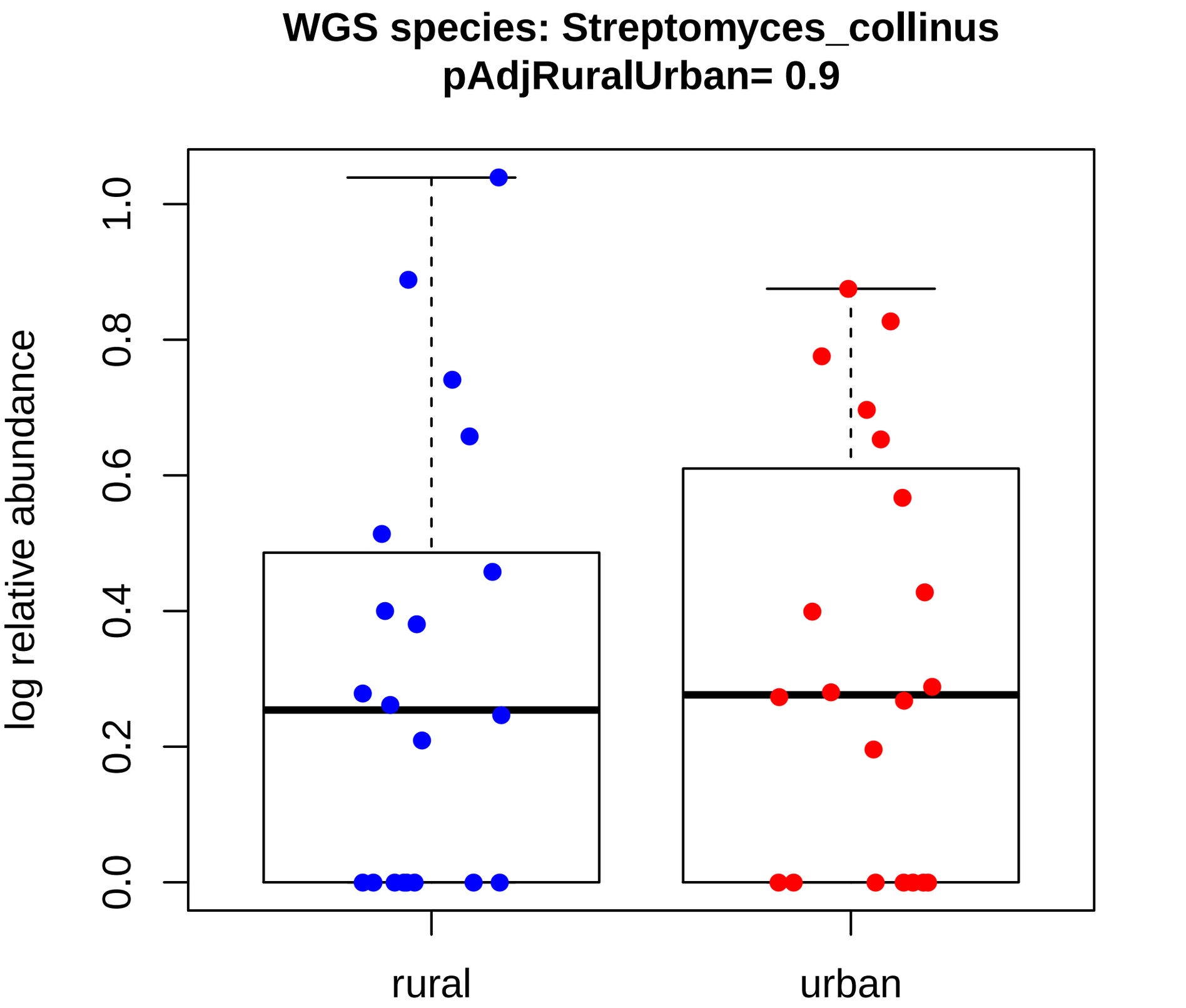

WGS species: Shigella_phage_SfIV
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

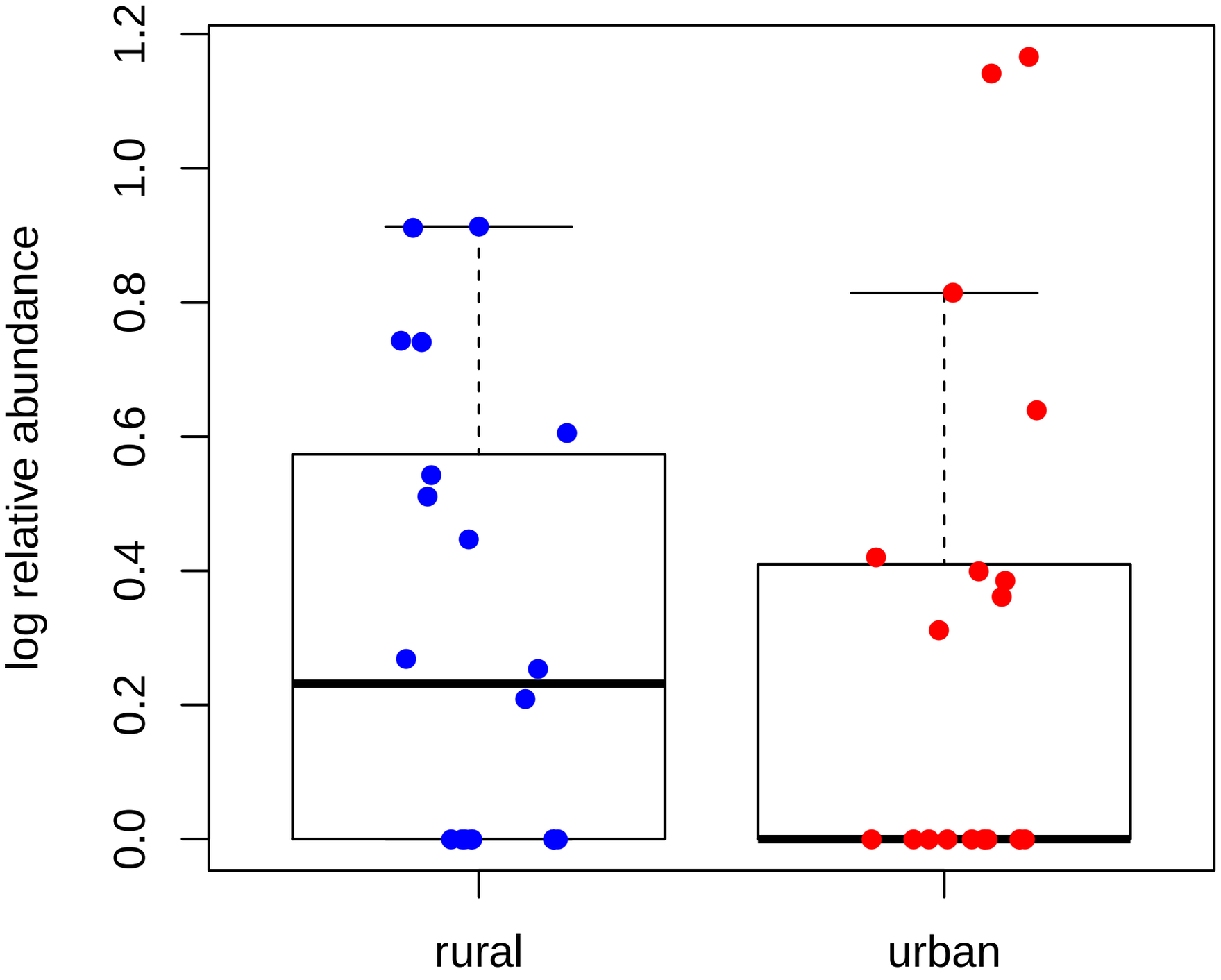

WGS species: Dickeya_zeae
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

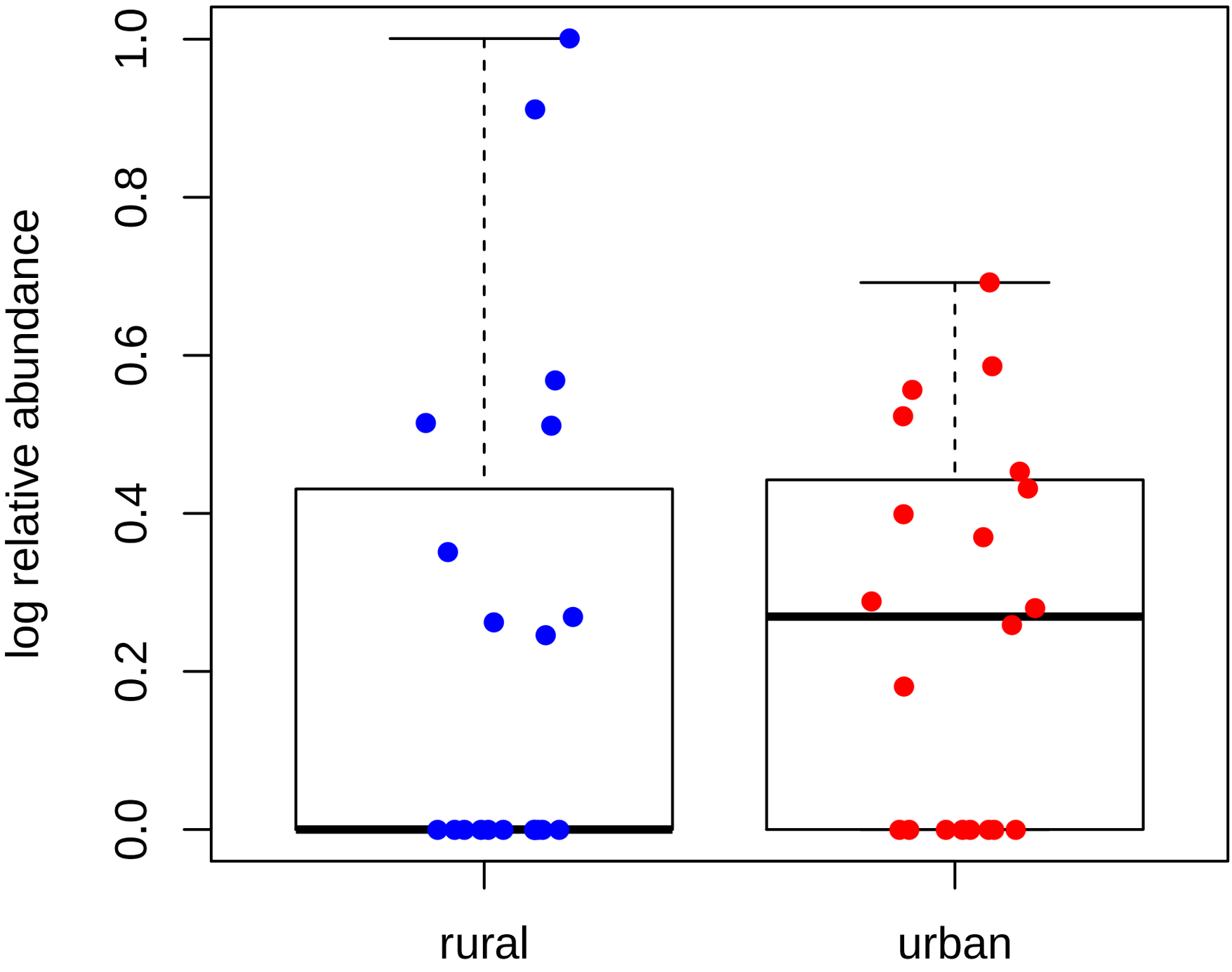

WGS species: Methylophaga_nitratireducenticrescens
pAdjRuralUrban= 0.896
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

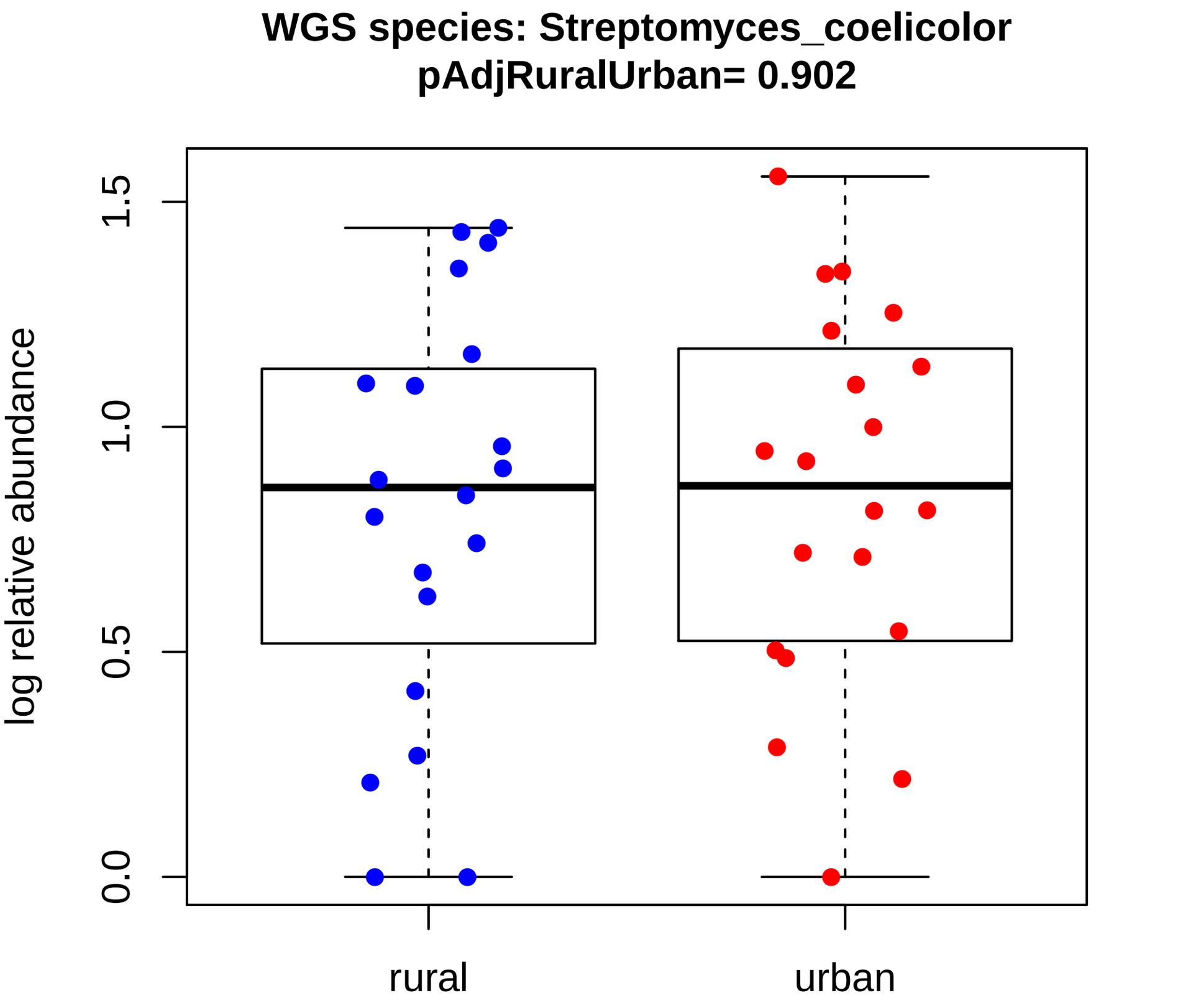

WGS species: Bradyrhizobium_diazoefficiens
pAdjRuralUrban= 0.897
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

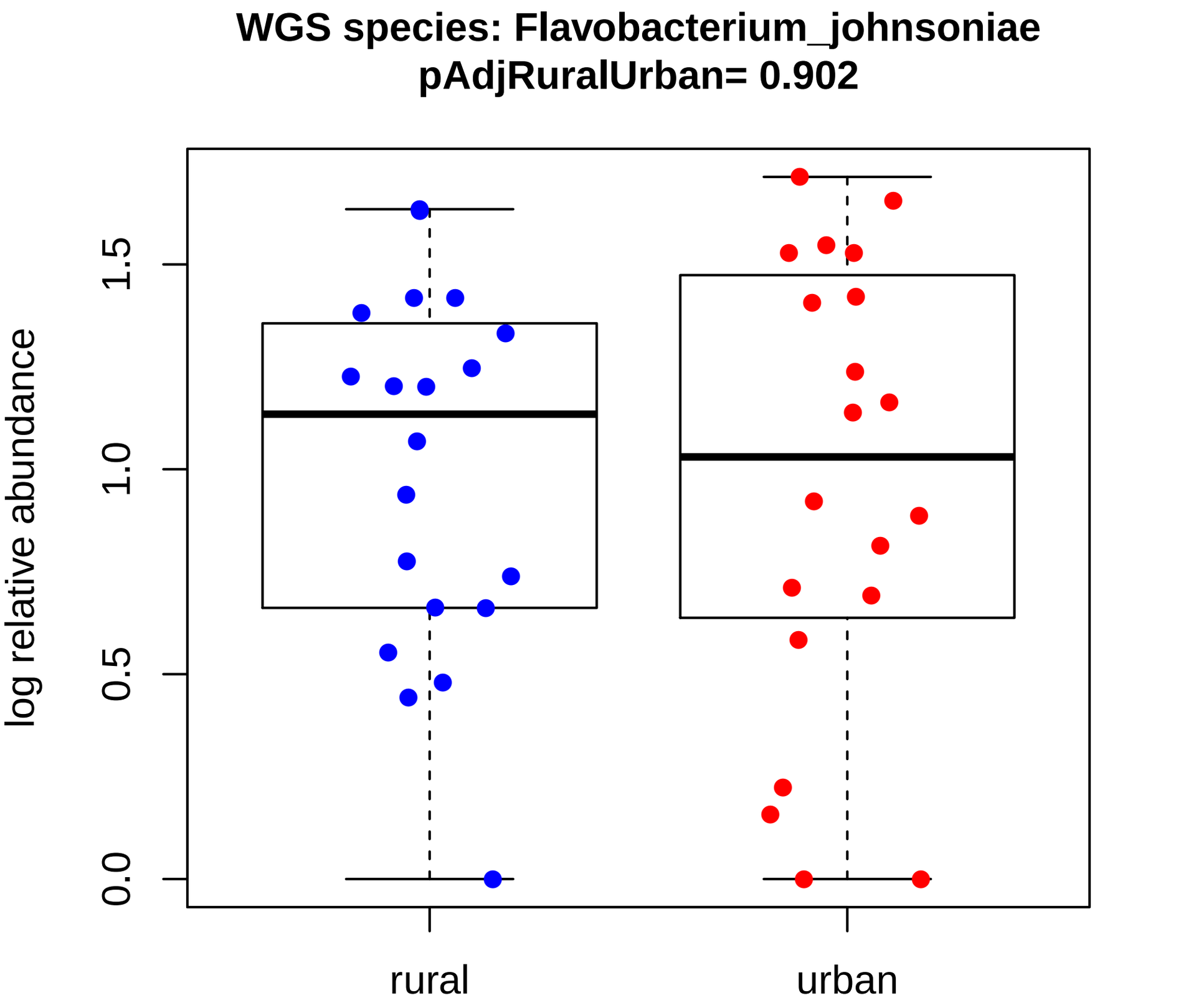

WGS species: X.Clostridium._saccharolyticum
pAdjRuralUrban= 0.898
log relative abundance
3.0
3.2
3.4
3.6
3.8
4.0
4.2
rural
urban

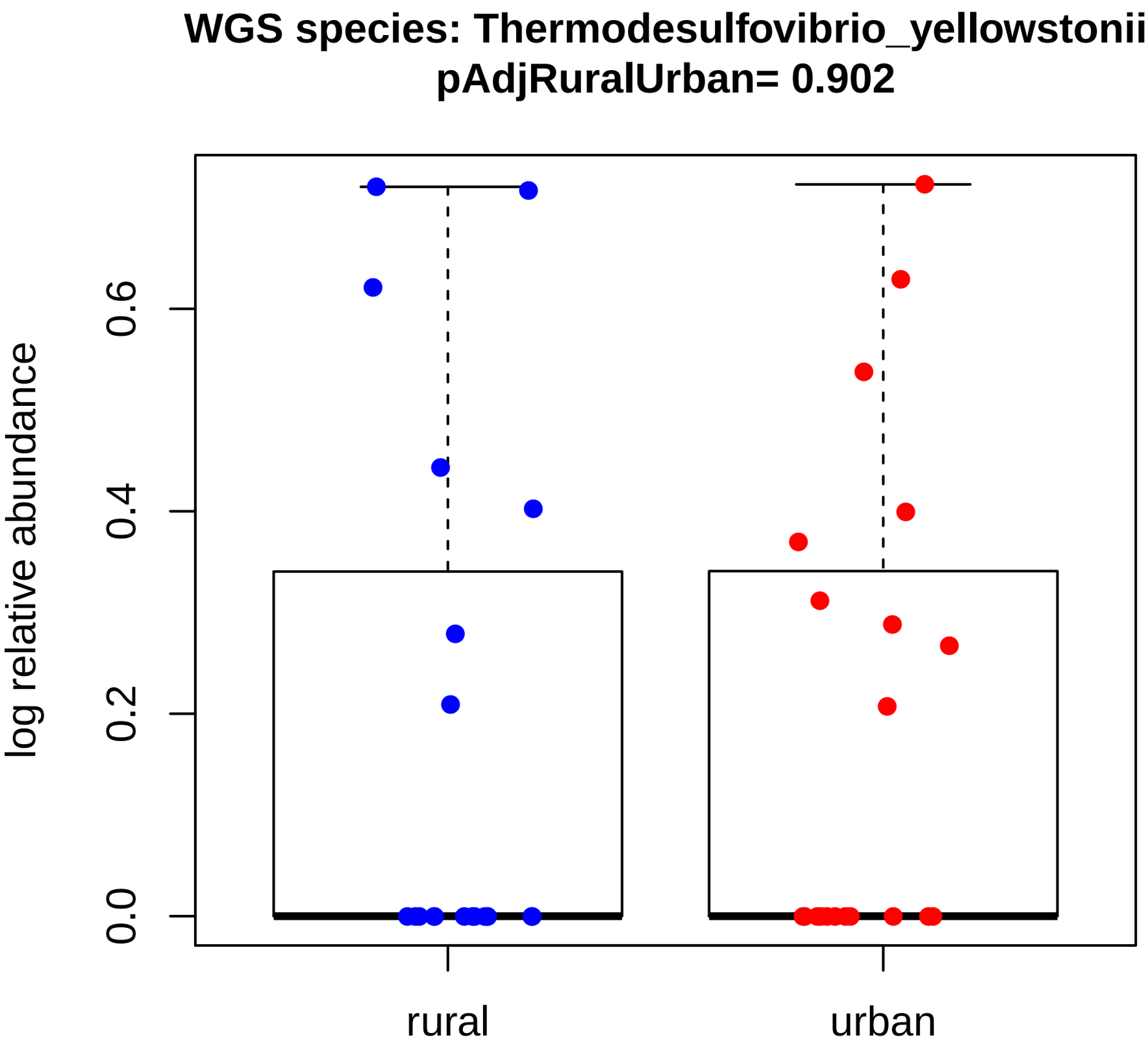

WGS species: Streptomyces_collinus
pAdjRuralUrban= 0.9
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

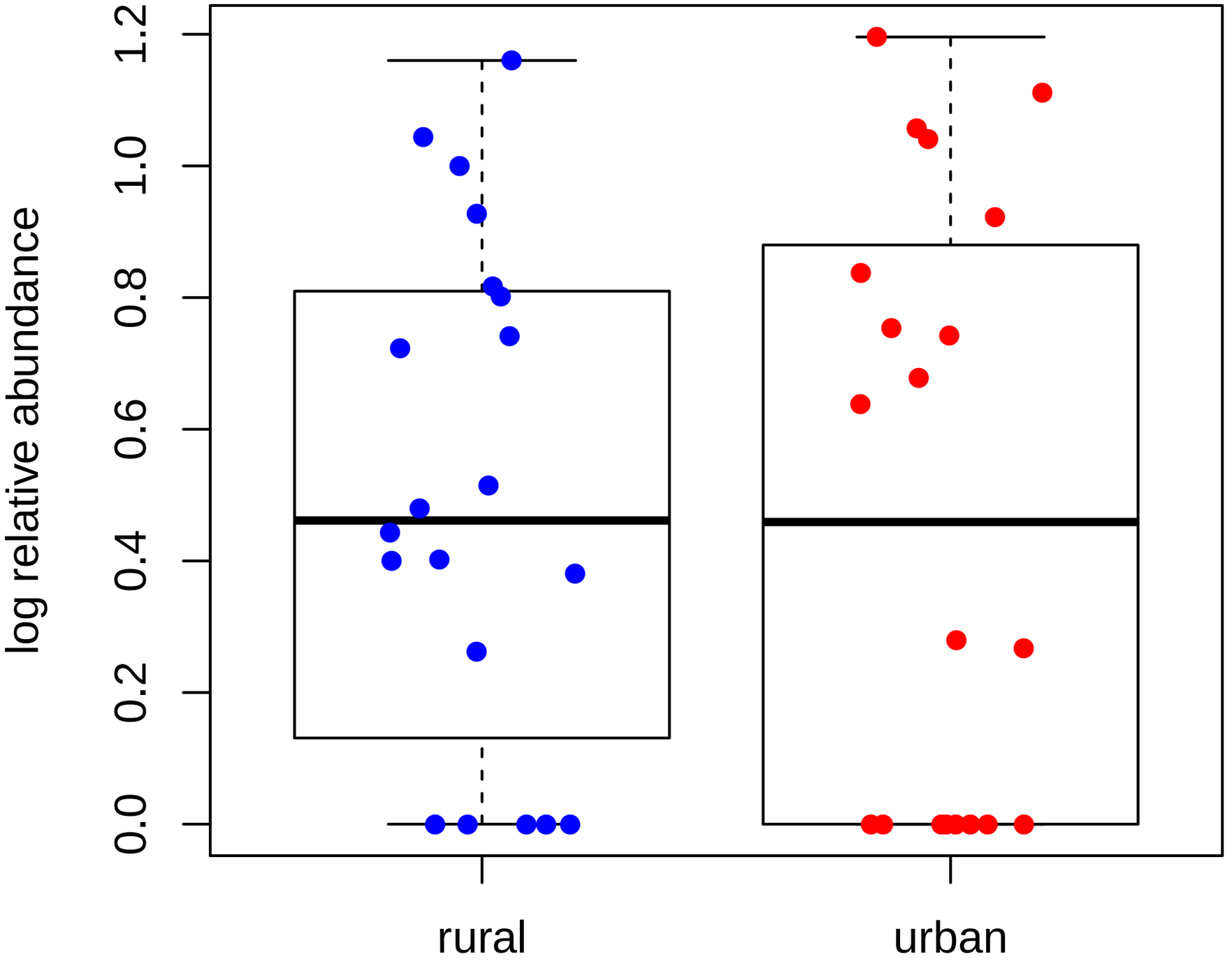

WGS species: Kribbella_flavida
pAdjRuralUrban= 0.901
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

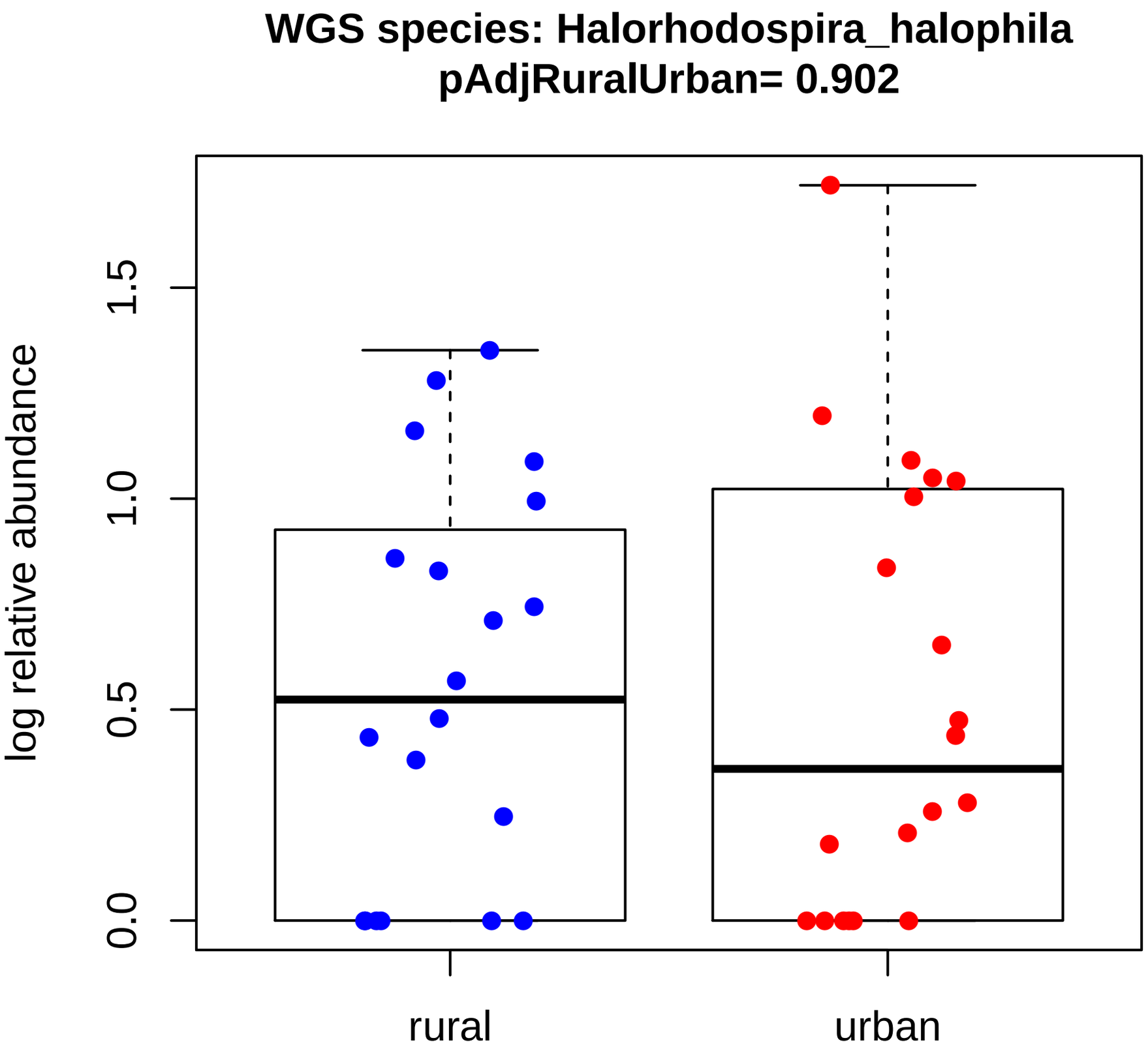

WGS species: Frankia_sp._Ccl3
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

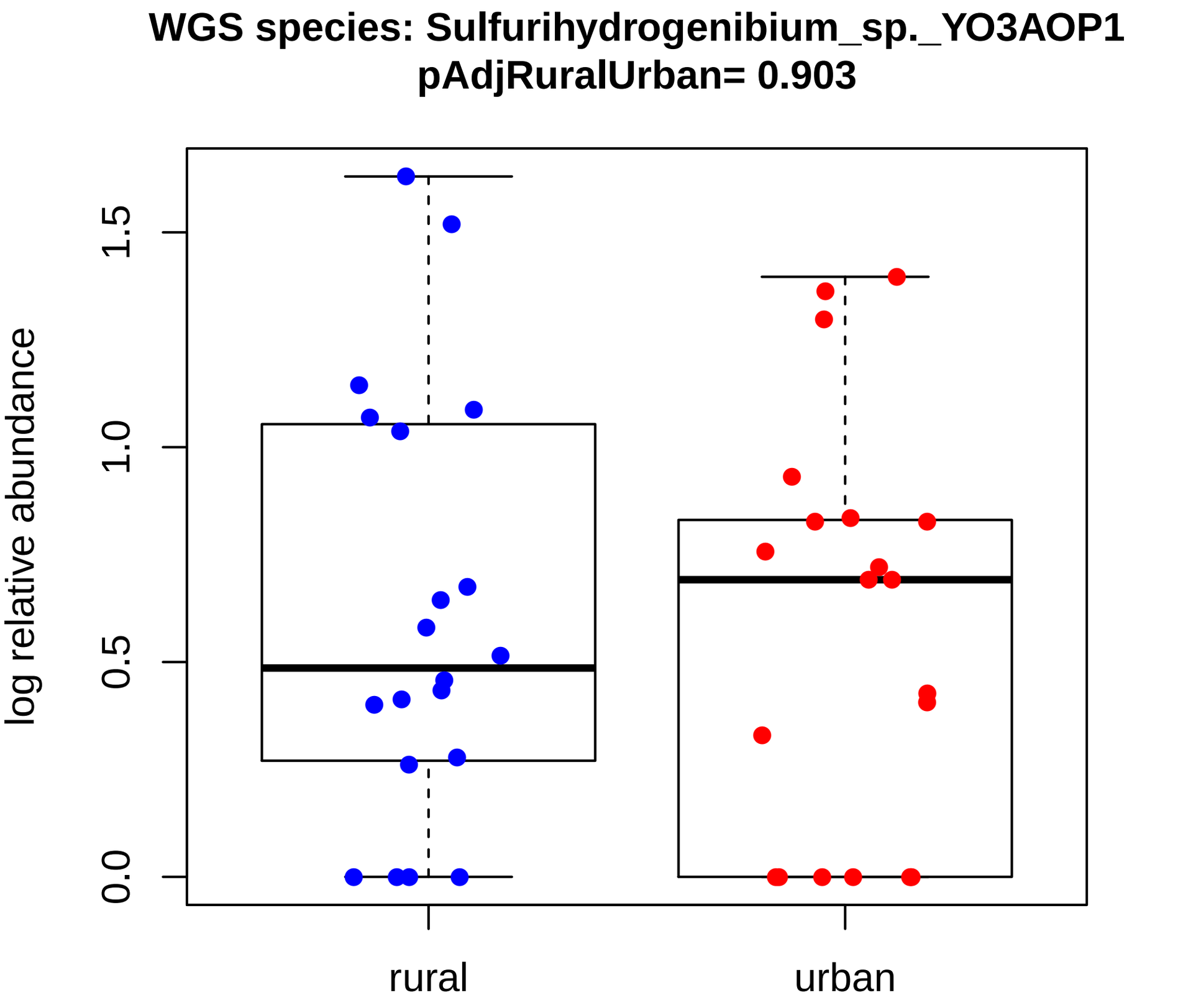

WGS species: Streptomyces_coelicolor
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

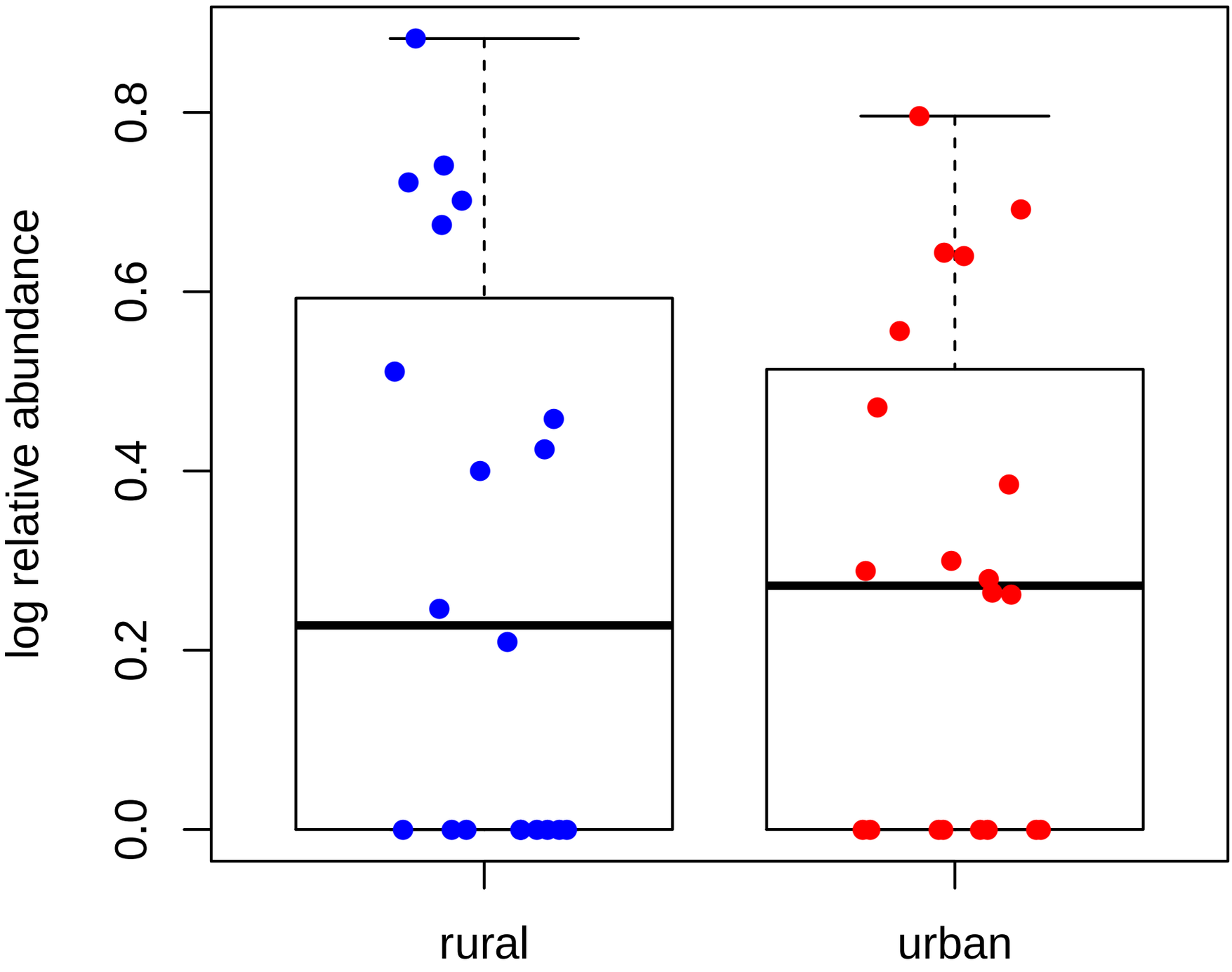

WGS species: Flavobacterium_johnsoniae
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

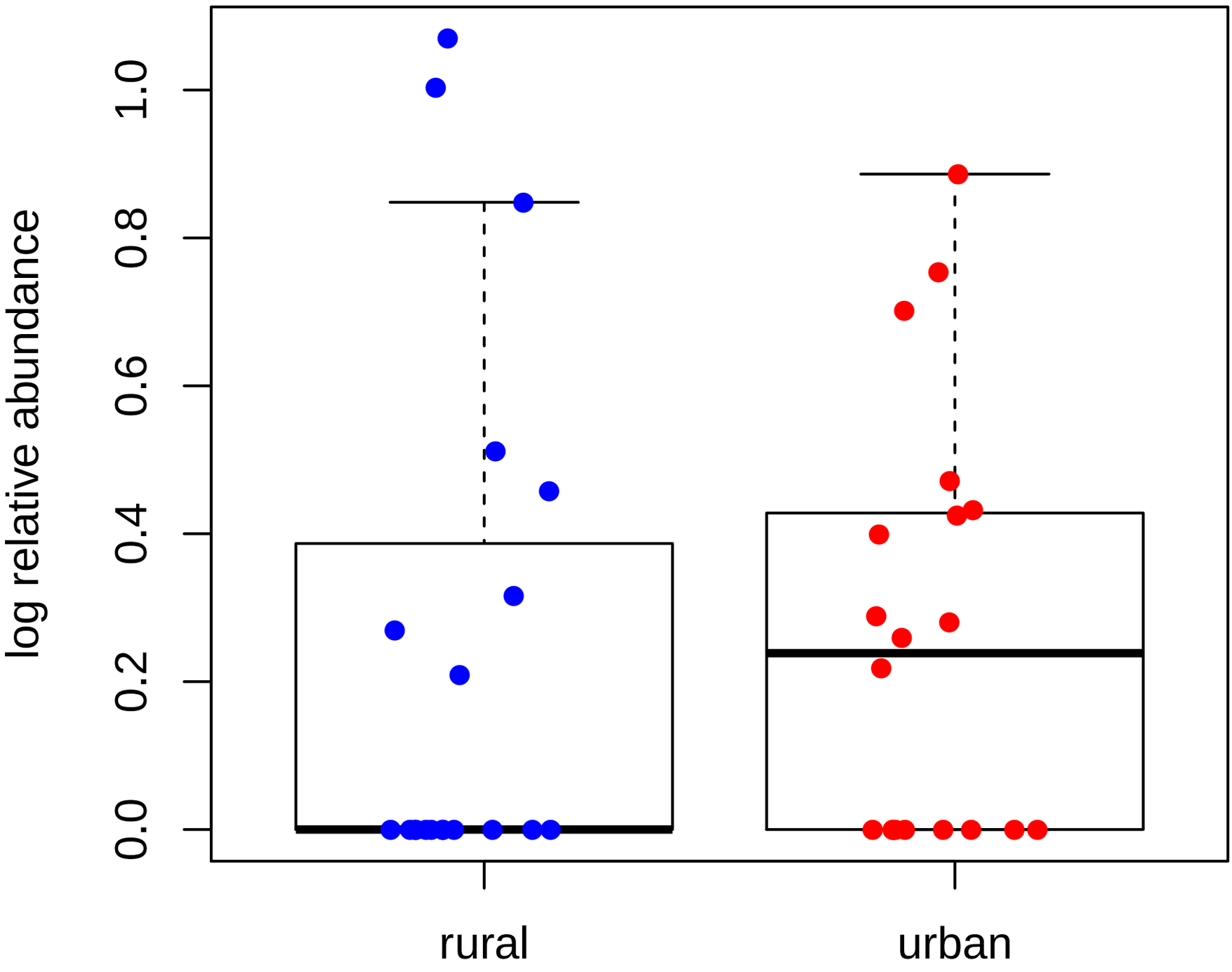

WGS species: Thermodesulfovibrio_yellowstonii
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

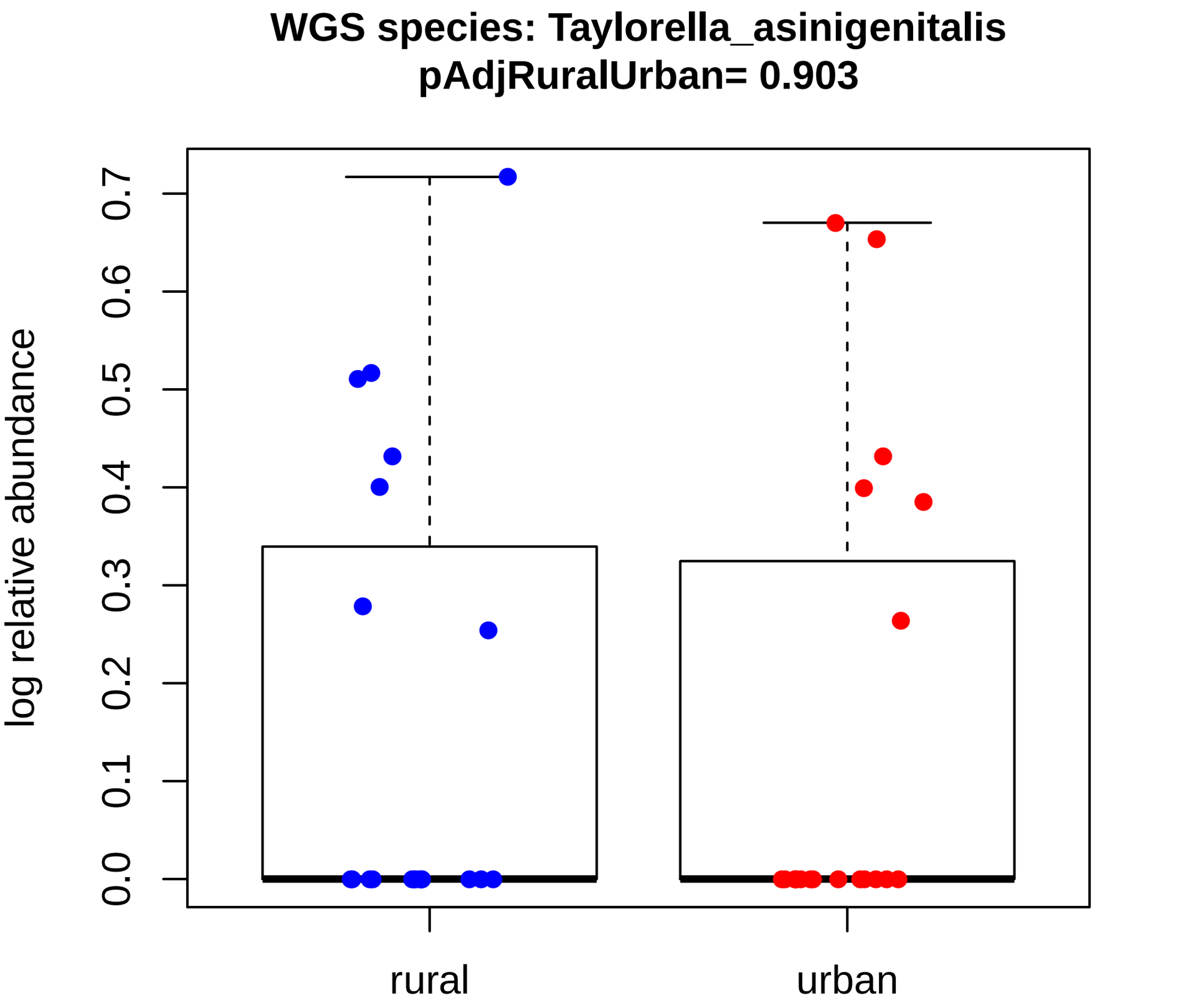

WGS species: Synechococcus_sp._JA.2.3B.a.2.13.
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

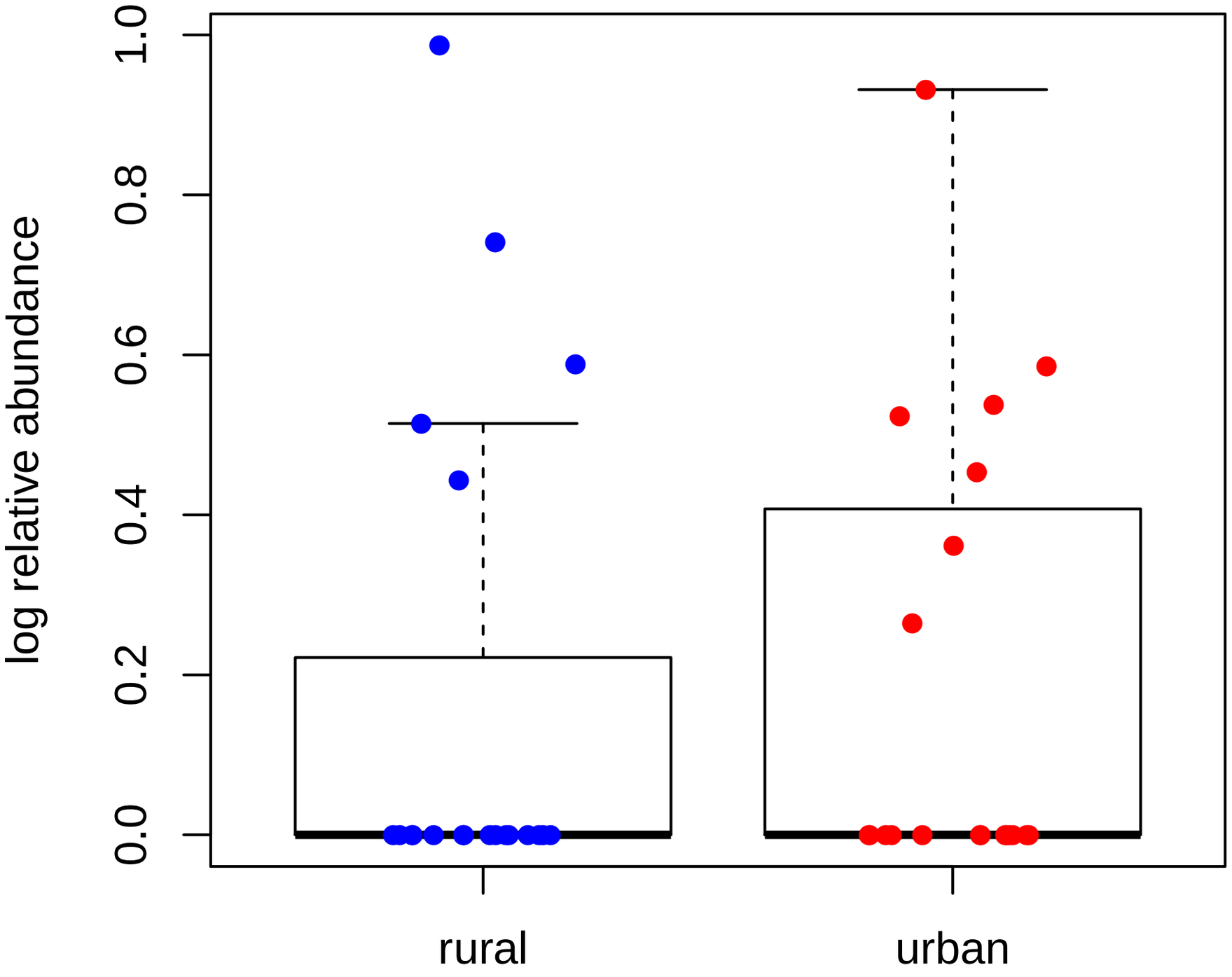

WGS species: Halorhodospira_halophila
pAdjRuralUrban= 0.902
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

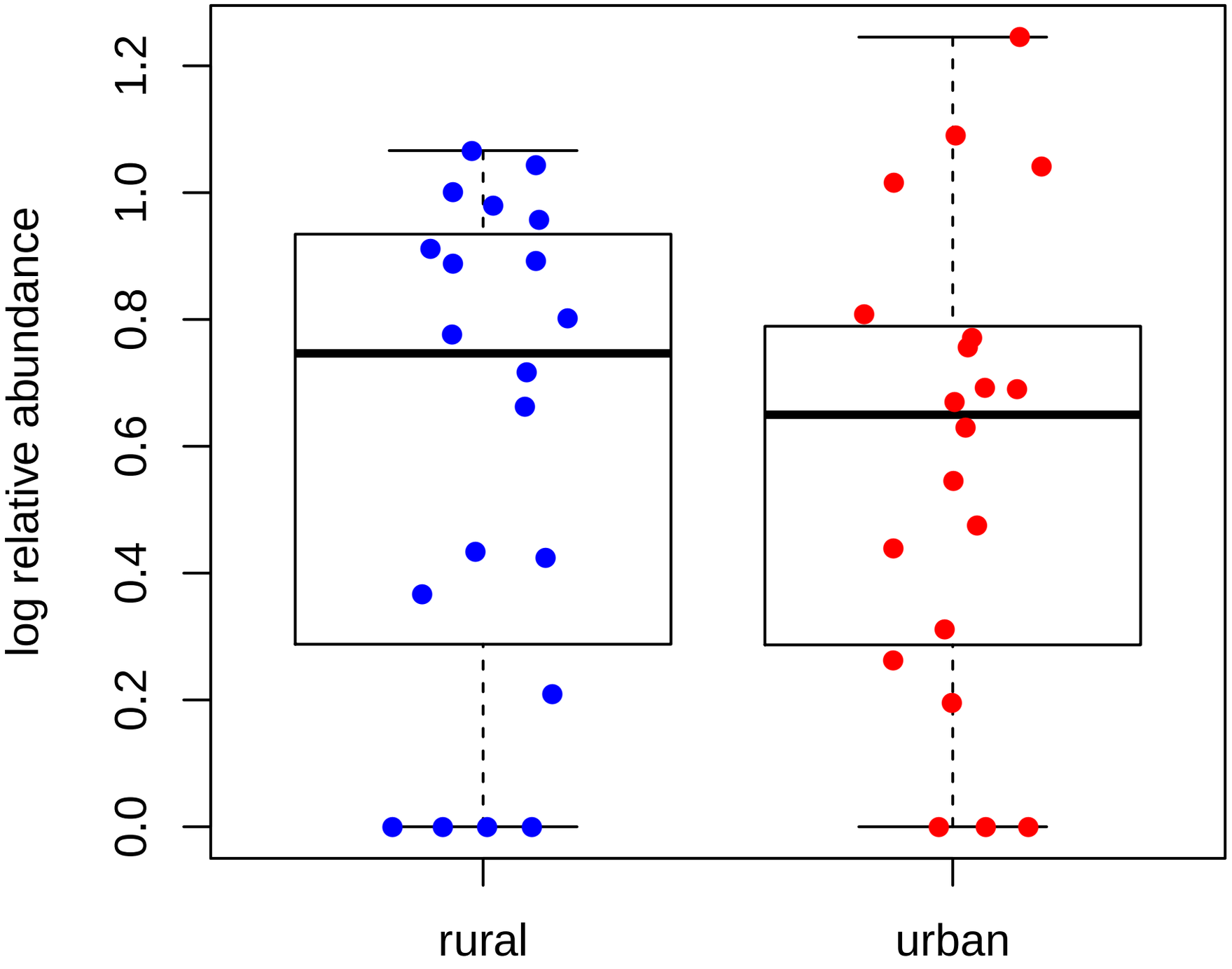

WGS species: Sulfurihydrogenibium_sp._YO3AOP1
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

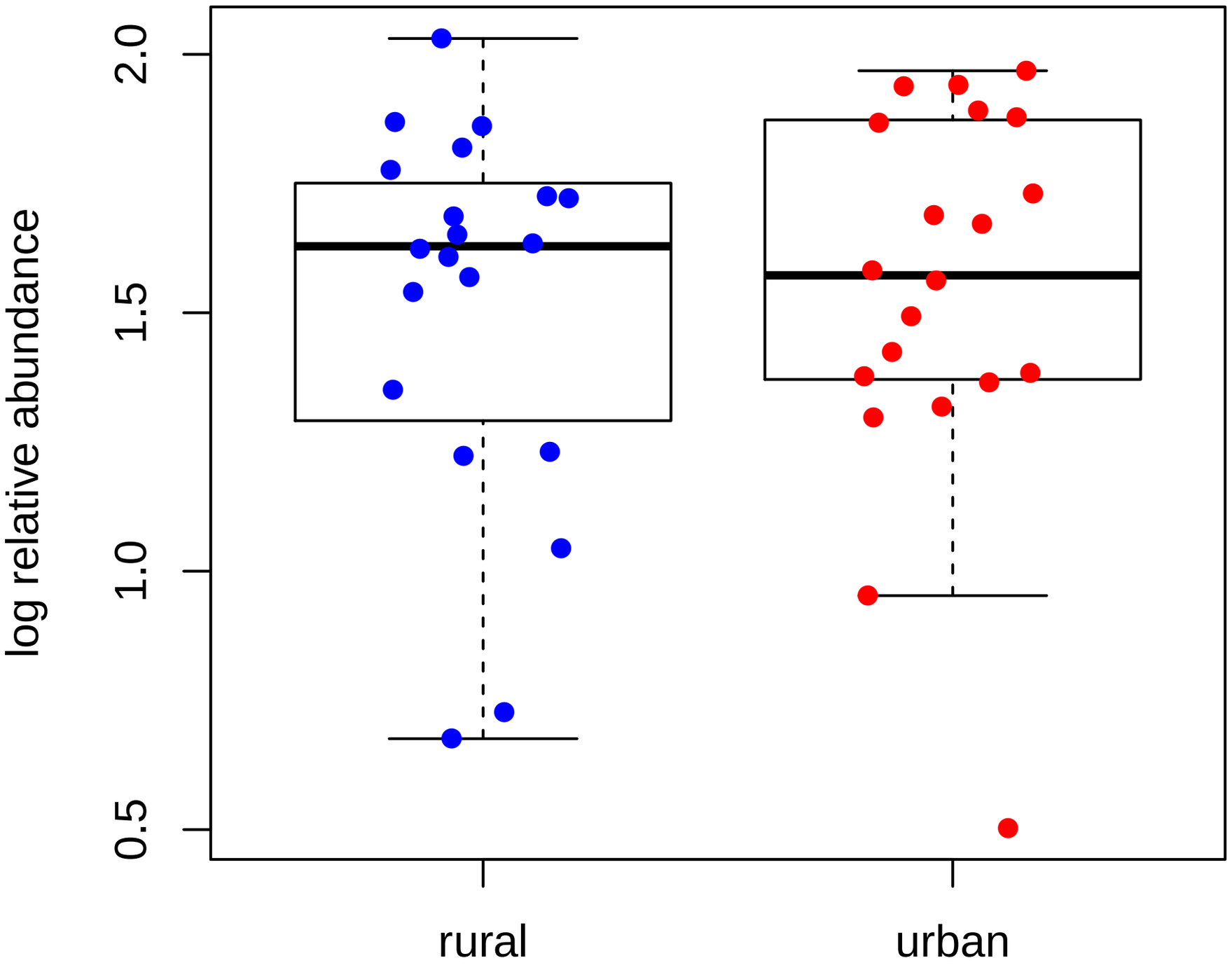

WGS species: Pseudomonas_protegens
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

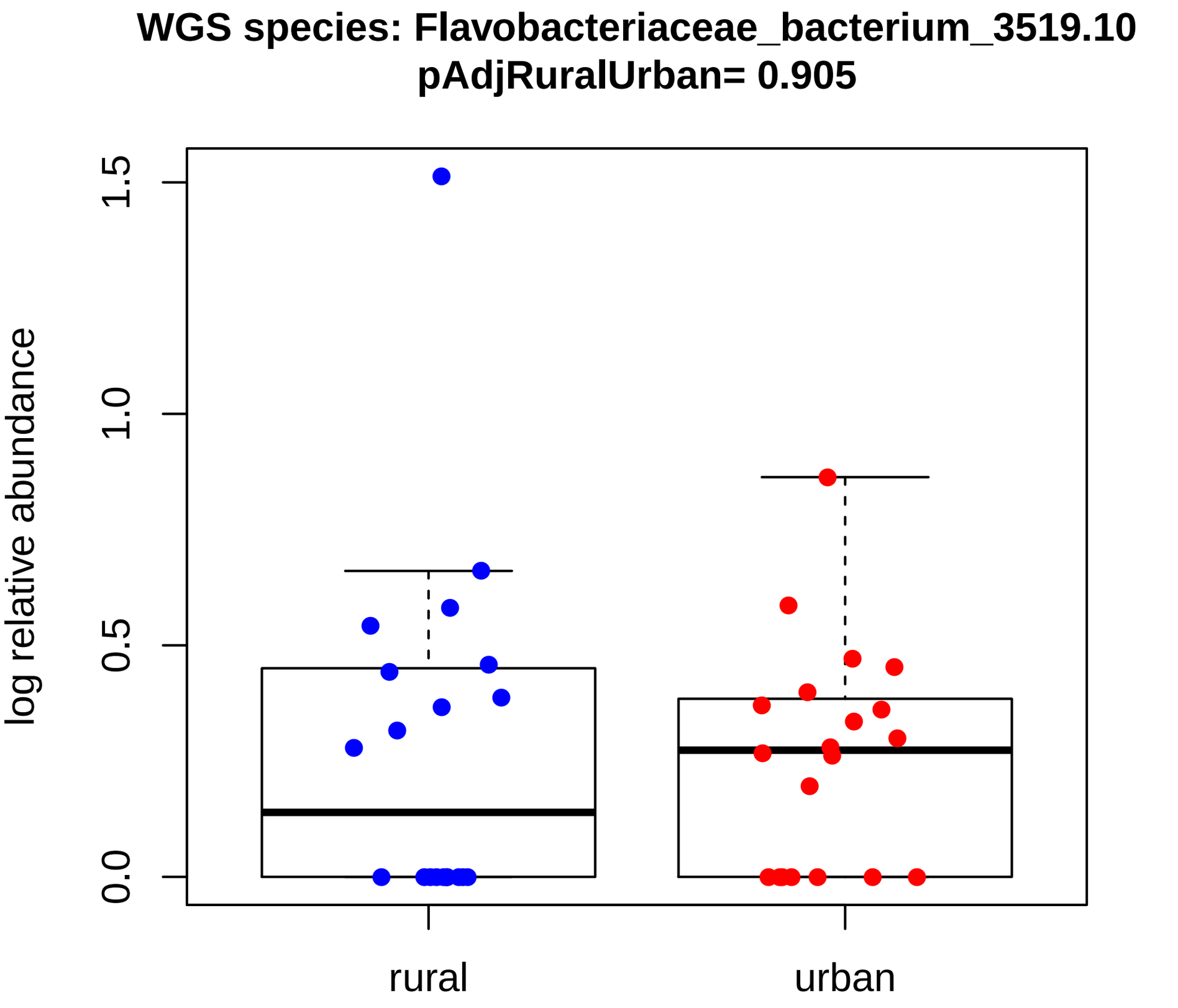

WGS species: Pseudomonas_poae
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

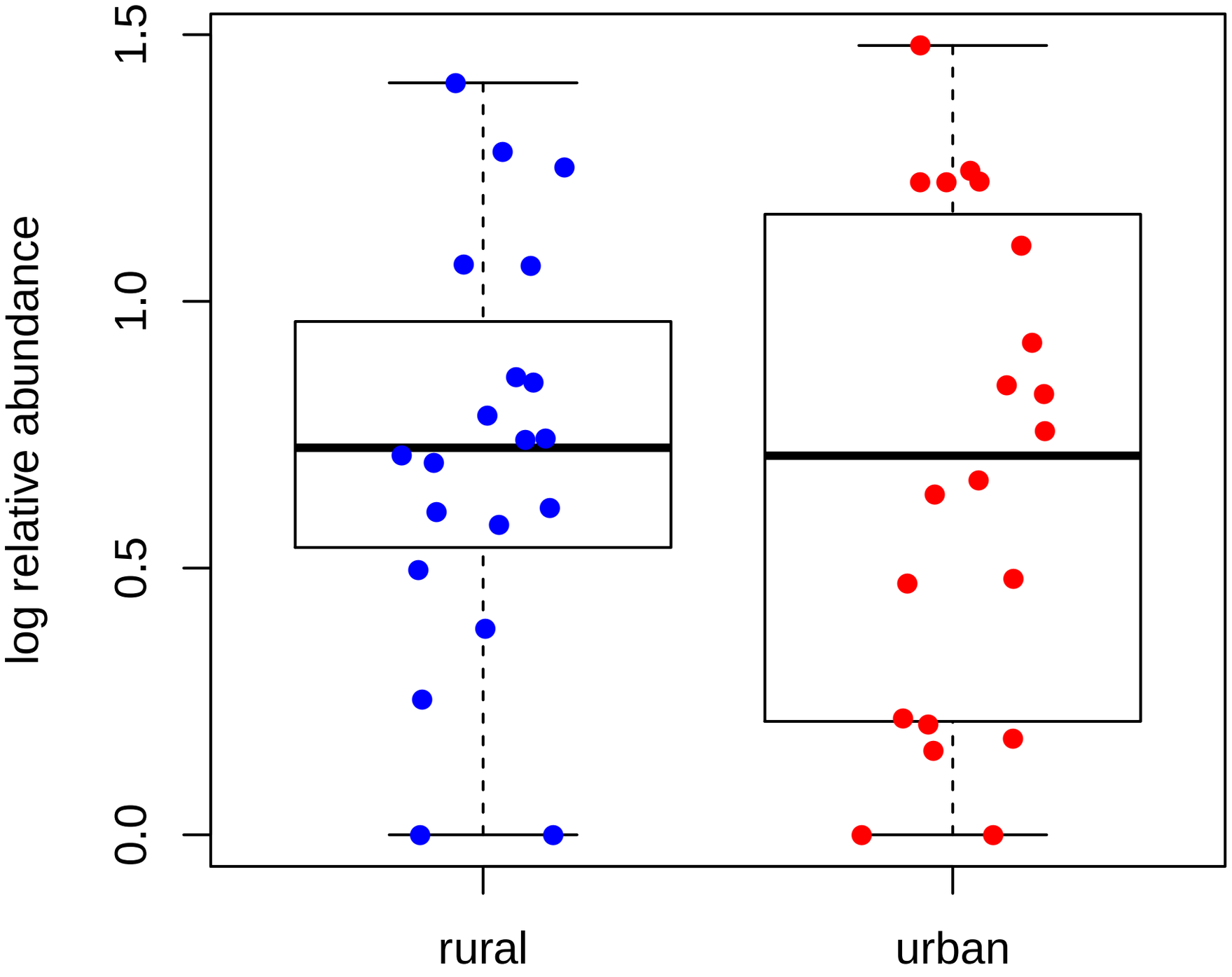

WGS species: Taylorella_asinigenitalis
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

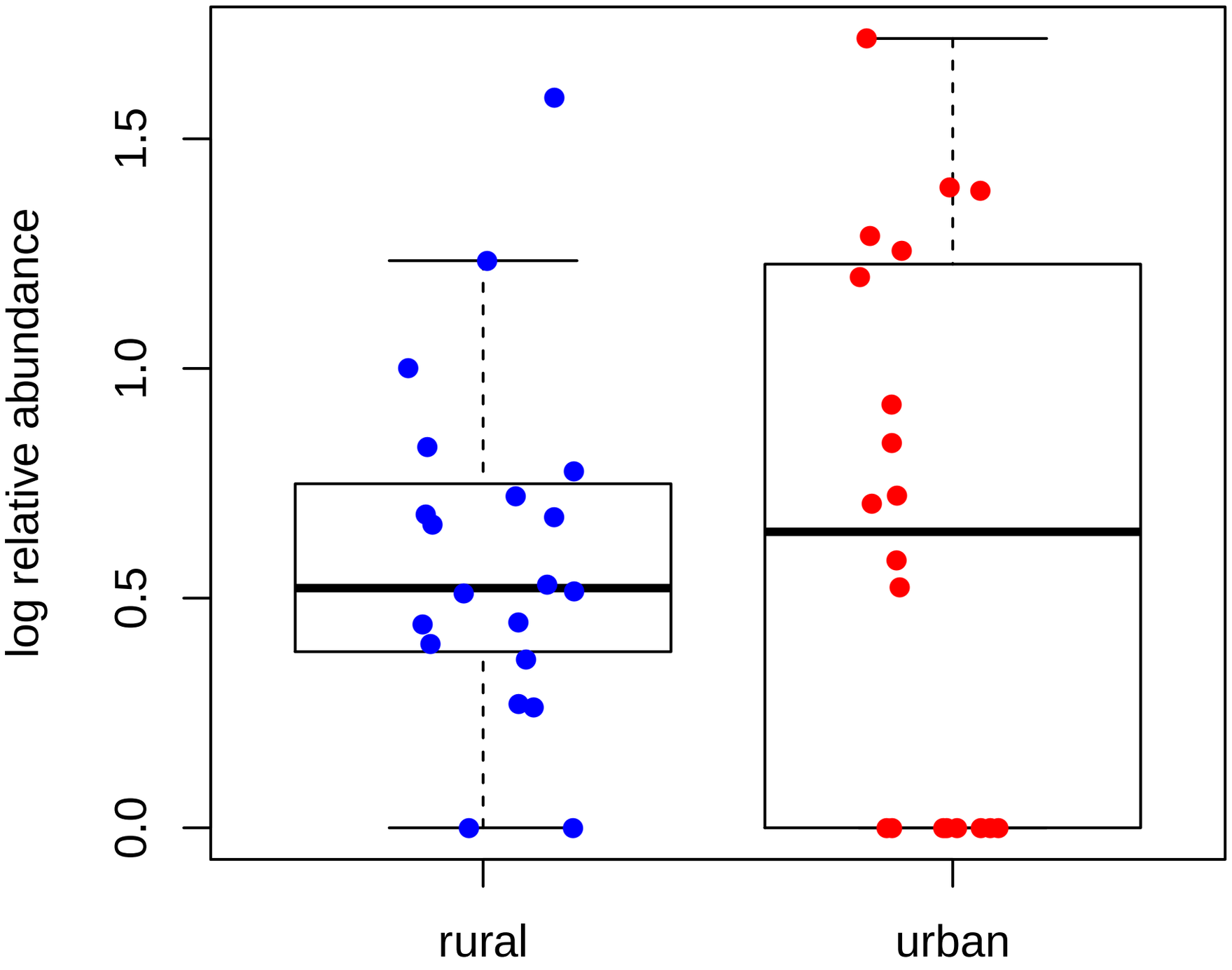

WGS species: Deferribacter_desulfuricans
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

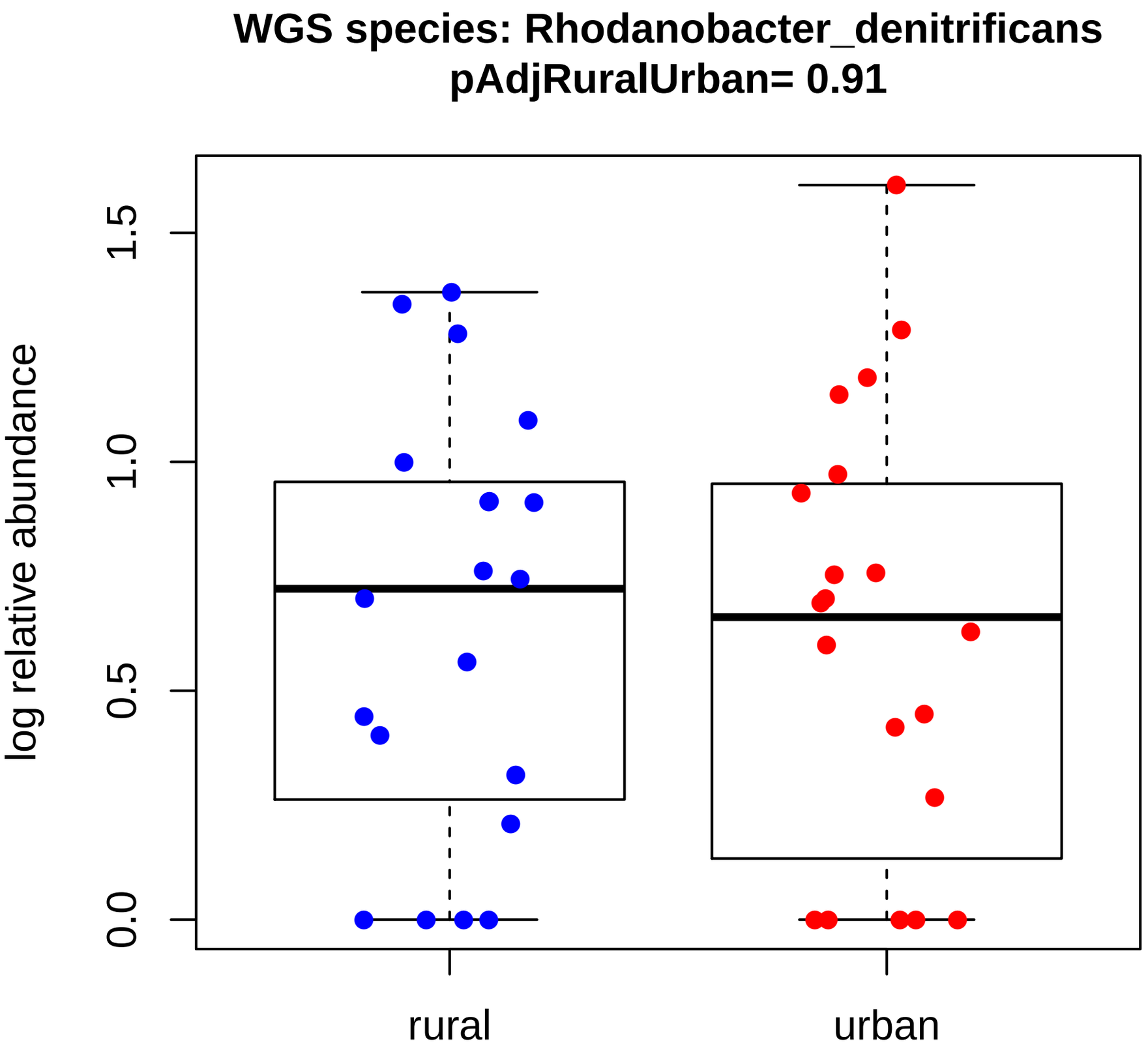

WGS species: Treponema_primitia
pAdjRuralUrban= 0.903
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

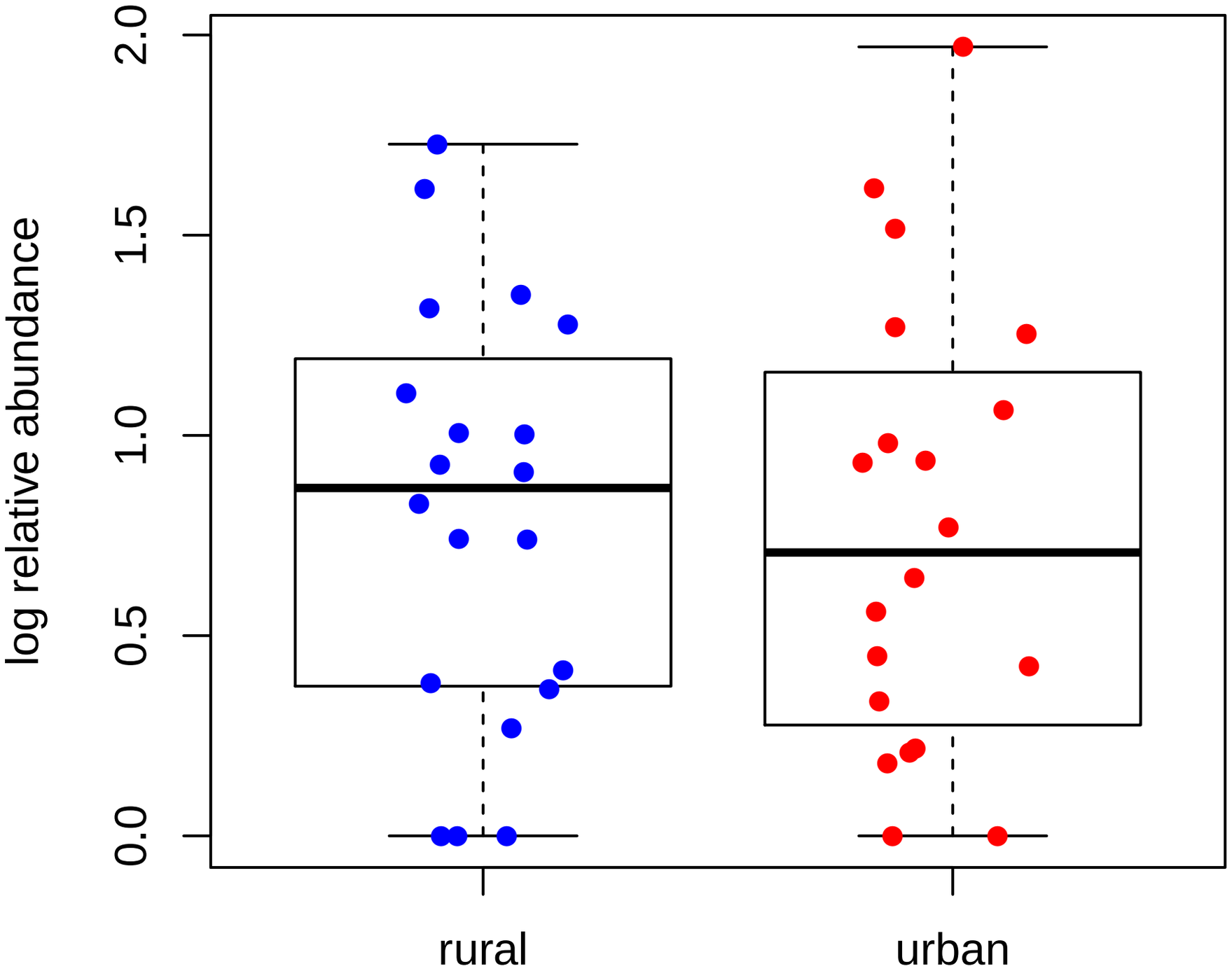

WGS species: Haliscomenobacter_hydrossis
pAdjRuralUrban= 0.905
log relative abundance
2.0
1.5
1.0
0.5
rural
urban

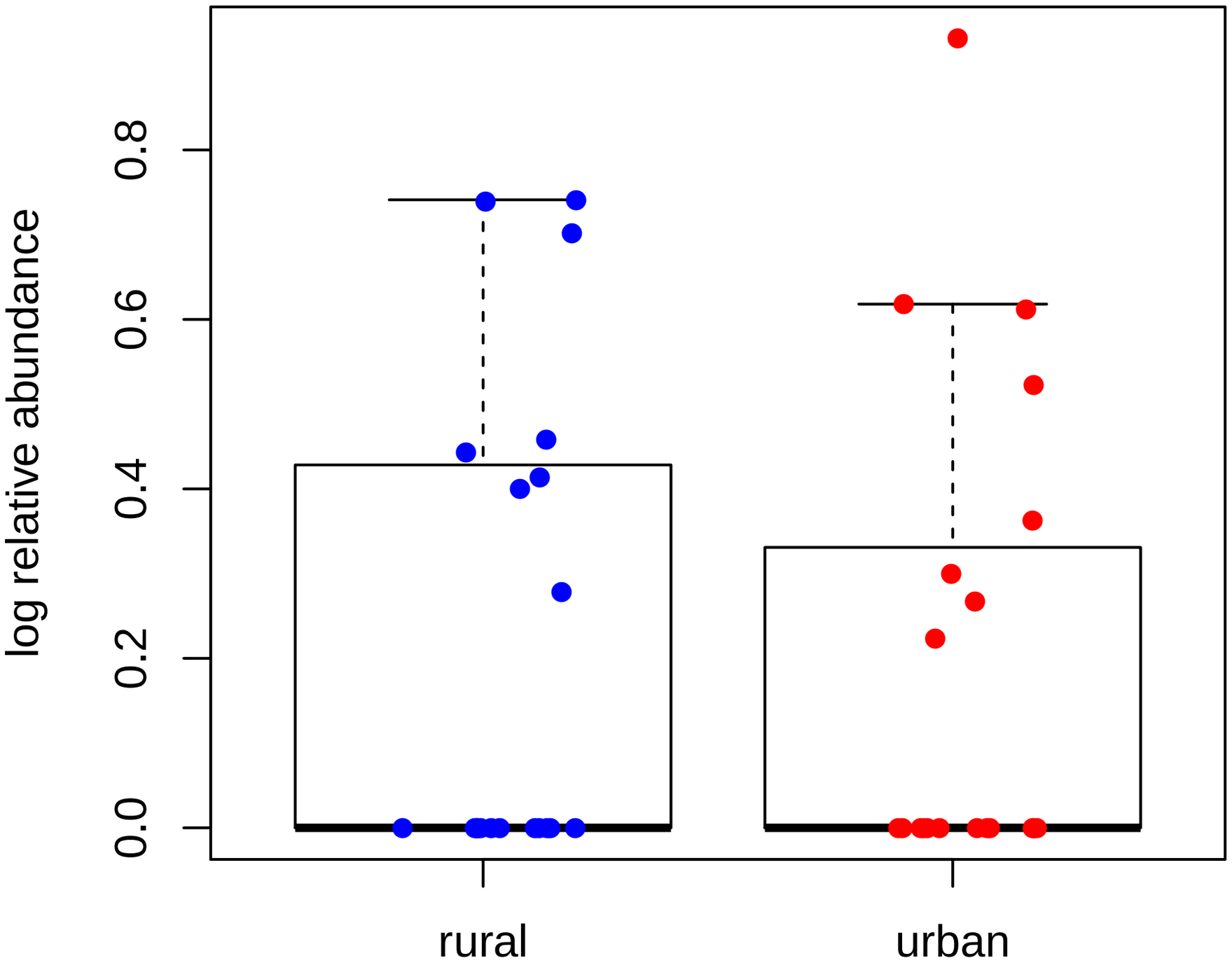

WGS species: Flavobacteriaceae_bacterium_3519.10
pAdjRuralUrban= 0.905
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

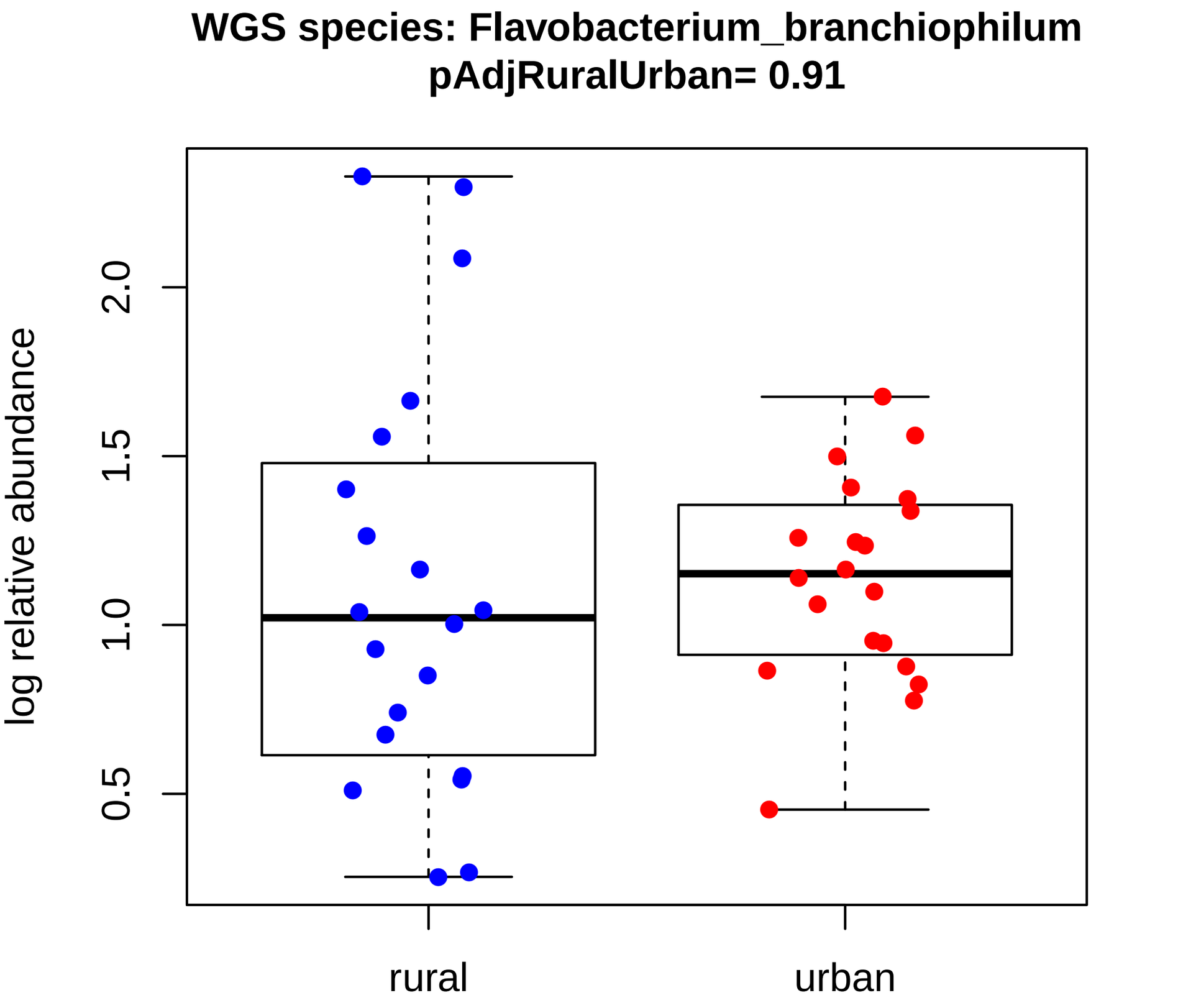

WGS species: Syntrophobacter_fumaroxidans
pAdjRuralUrban= 0.907
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

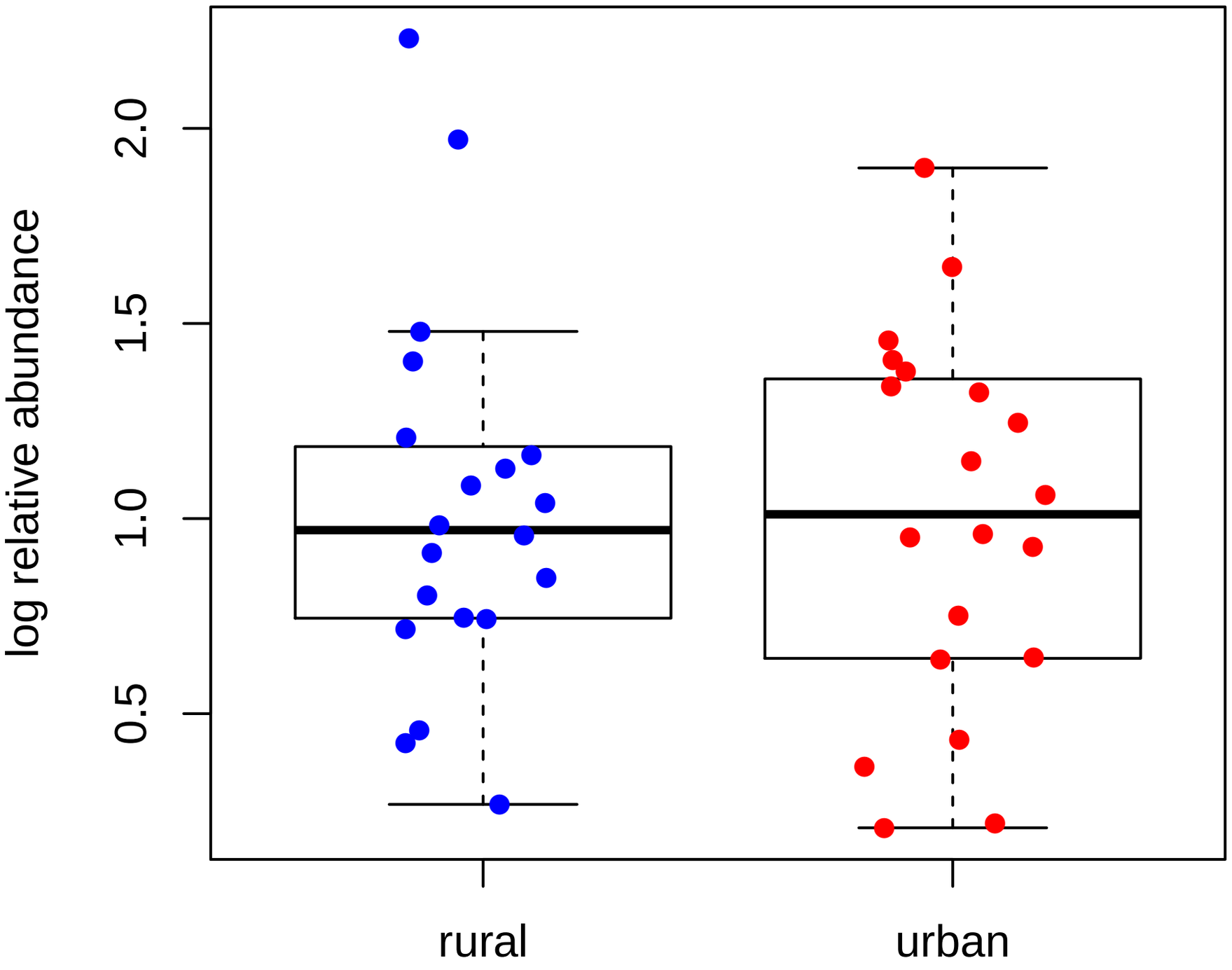

WGS species: gamma_proteobacterium_HdN1
pAdjRuralUrban= 0.907
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

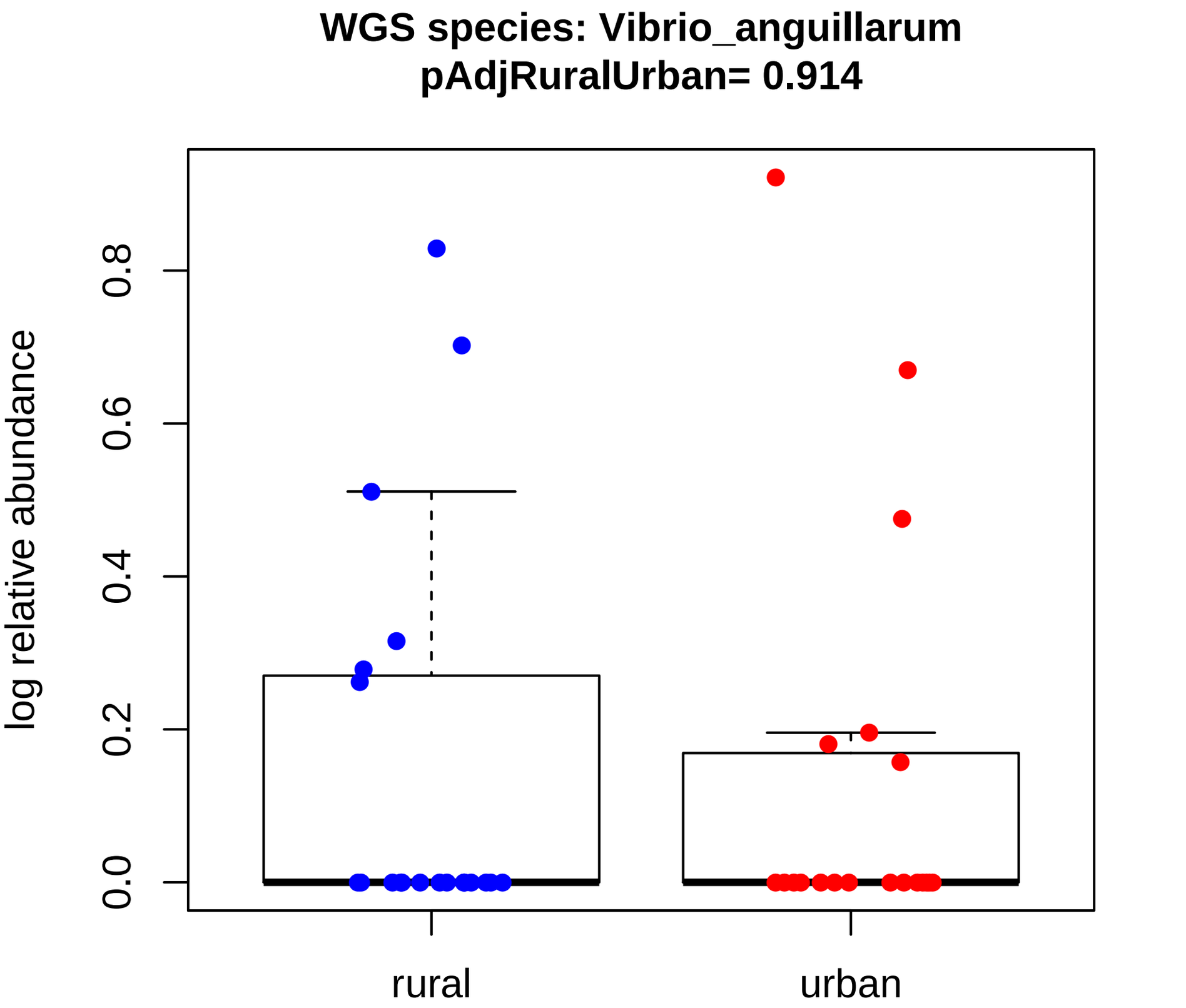

WGS species: Rhodanobacter_denitrificans
pAdjRuralUrban= 0.91
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

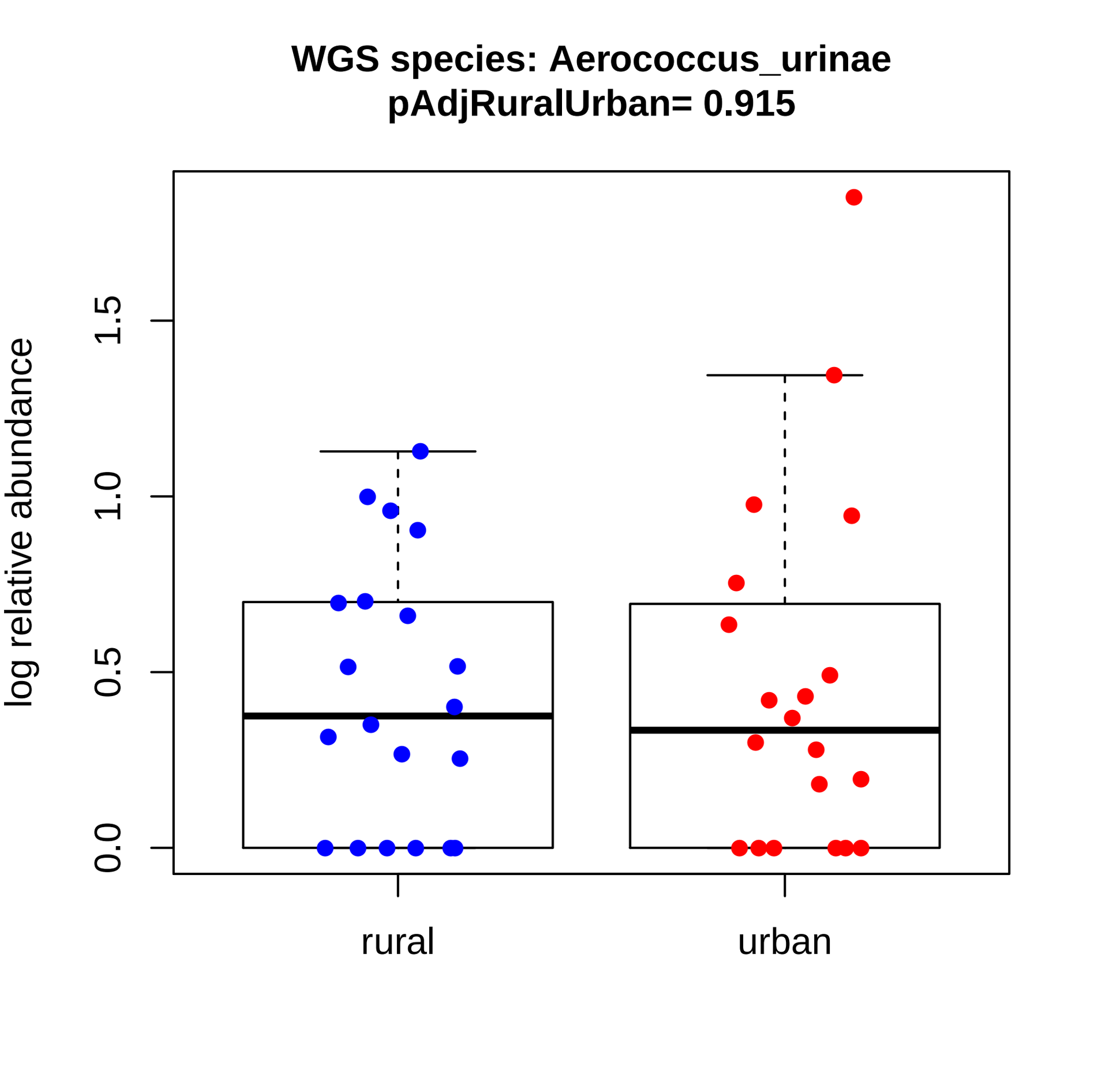

WGS species: Edwardsiella_ictaluri
pAdjRuralUrban= 0.91
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

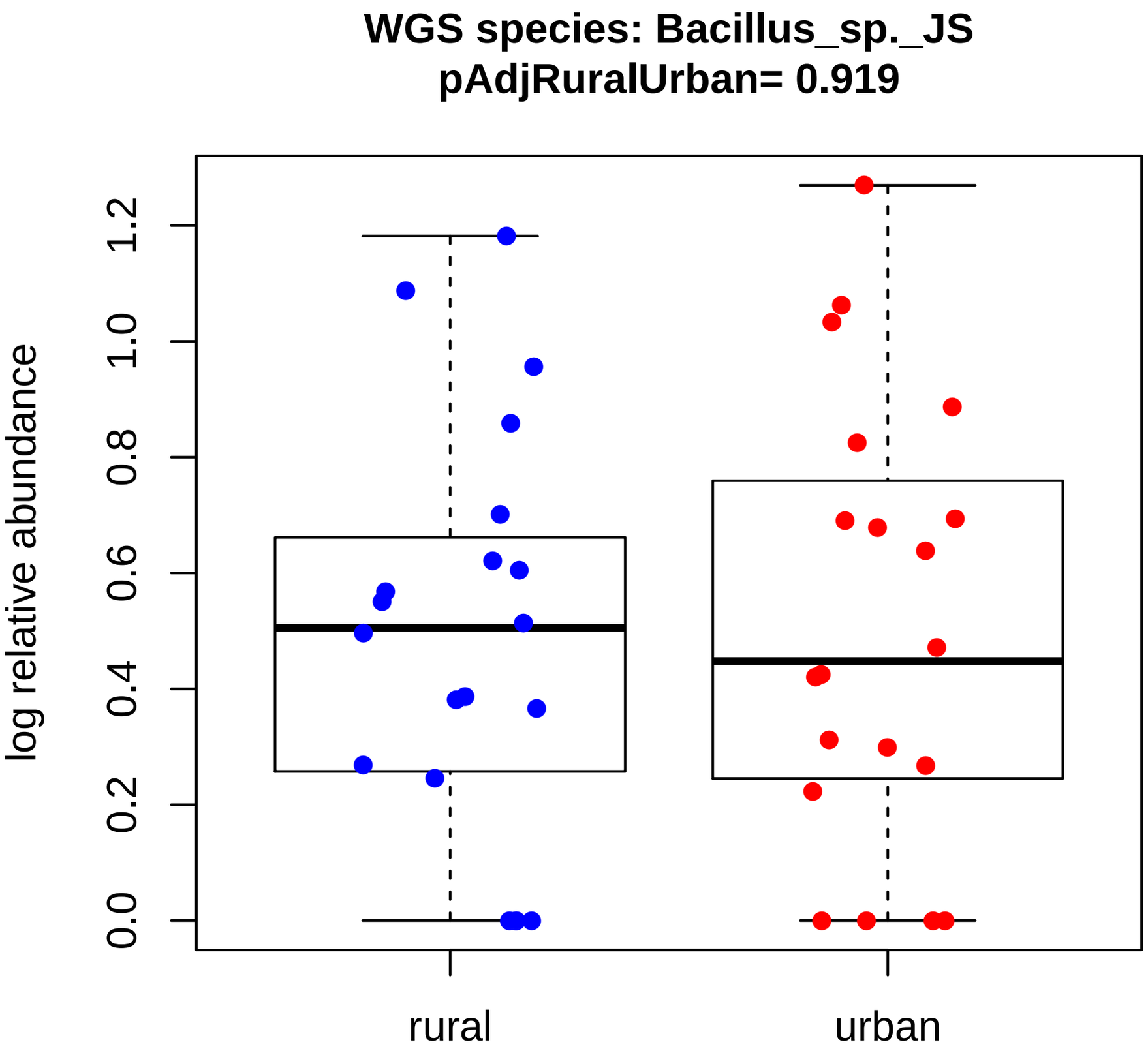

WGS species: Marinomonas_sp._MWYL1
pAdjRuralUrban= 0.91
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

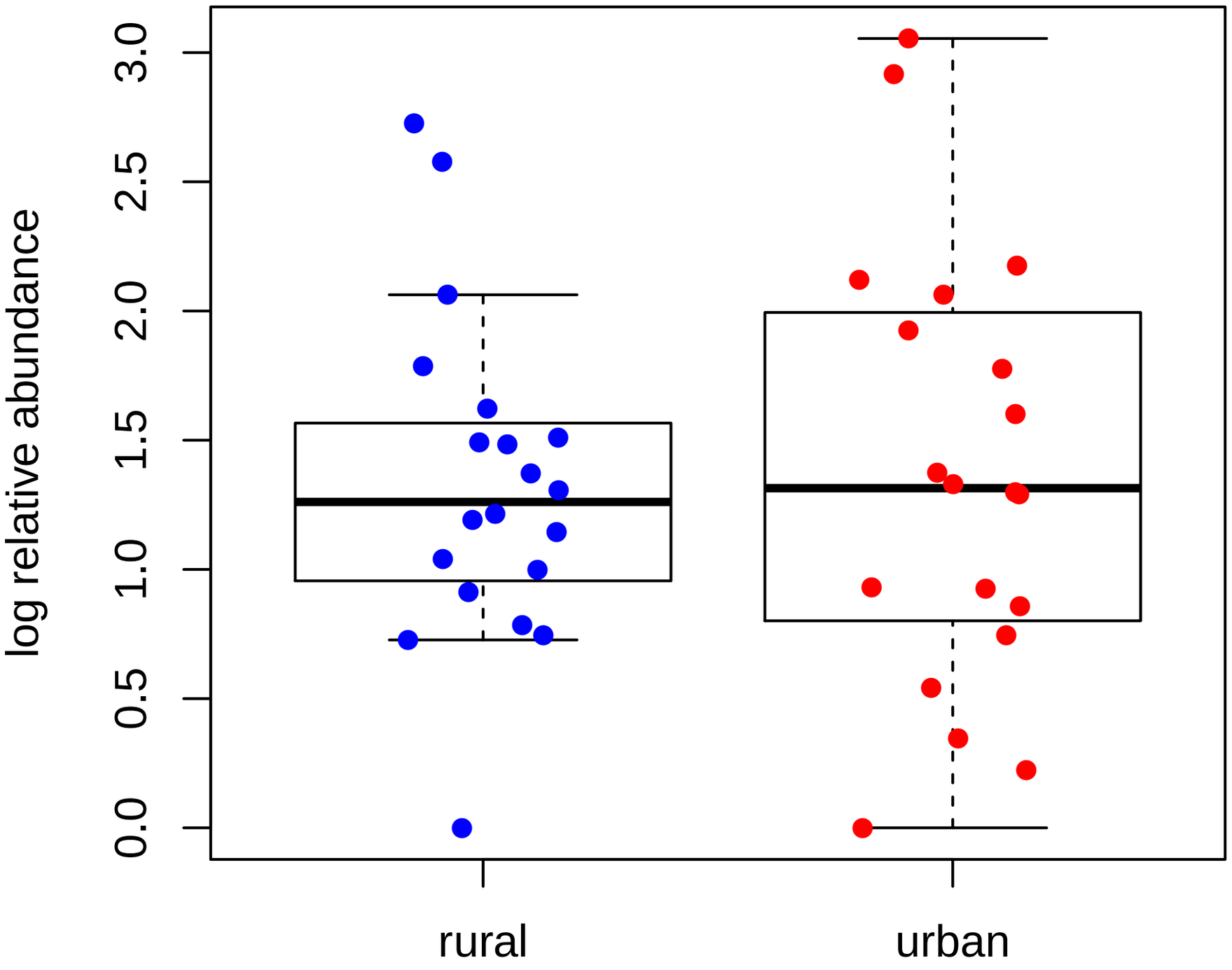

WGS species: Flavobacterium_branchiophilum
pAdjRuralUrban= 0.91
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

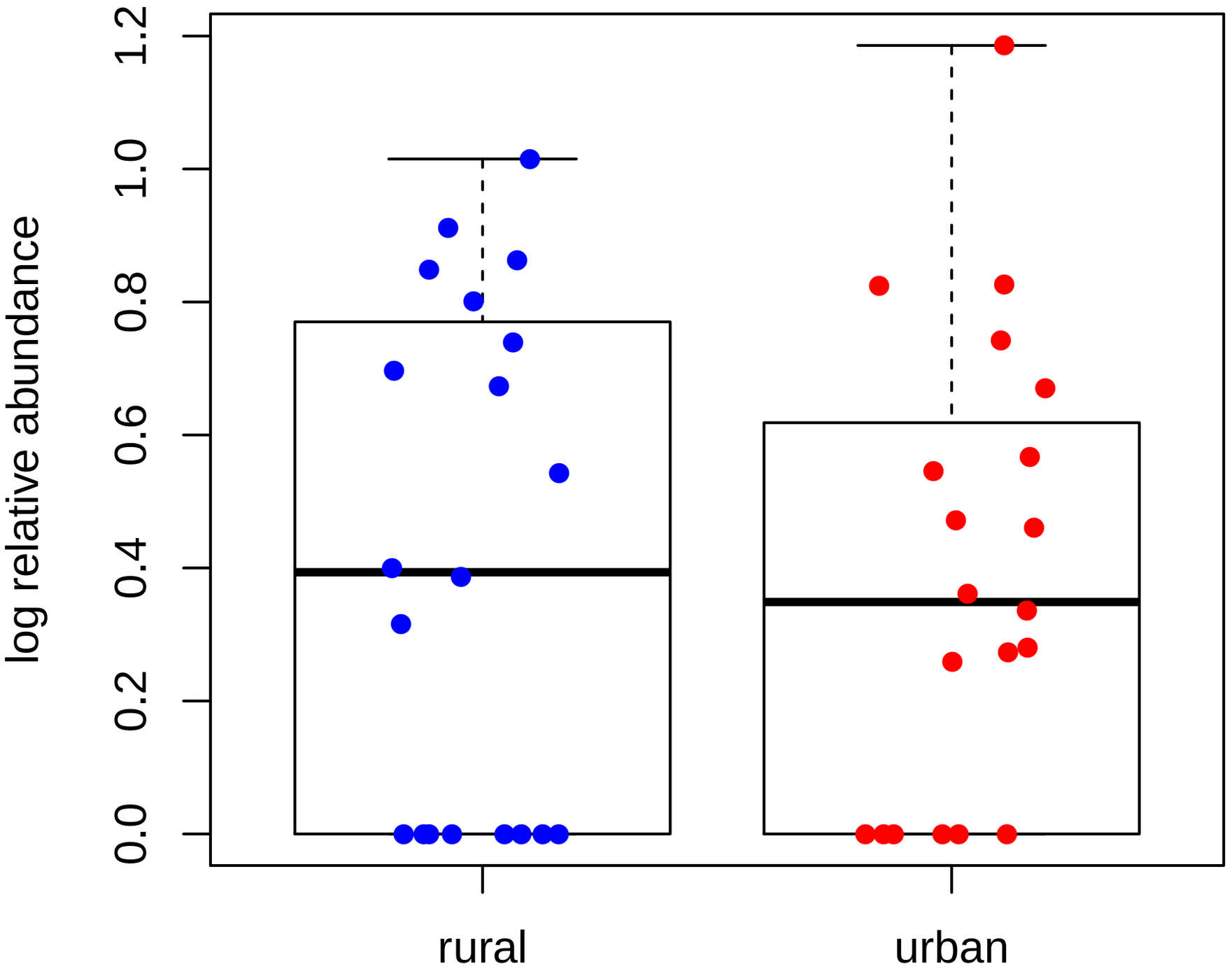

WGS species: Corynebacterium_urealyticum
pAdjRuralUrban= 0.91
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

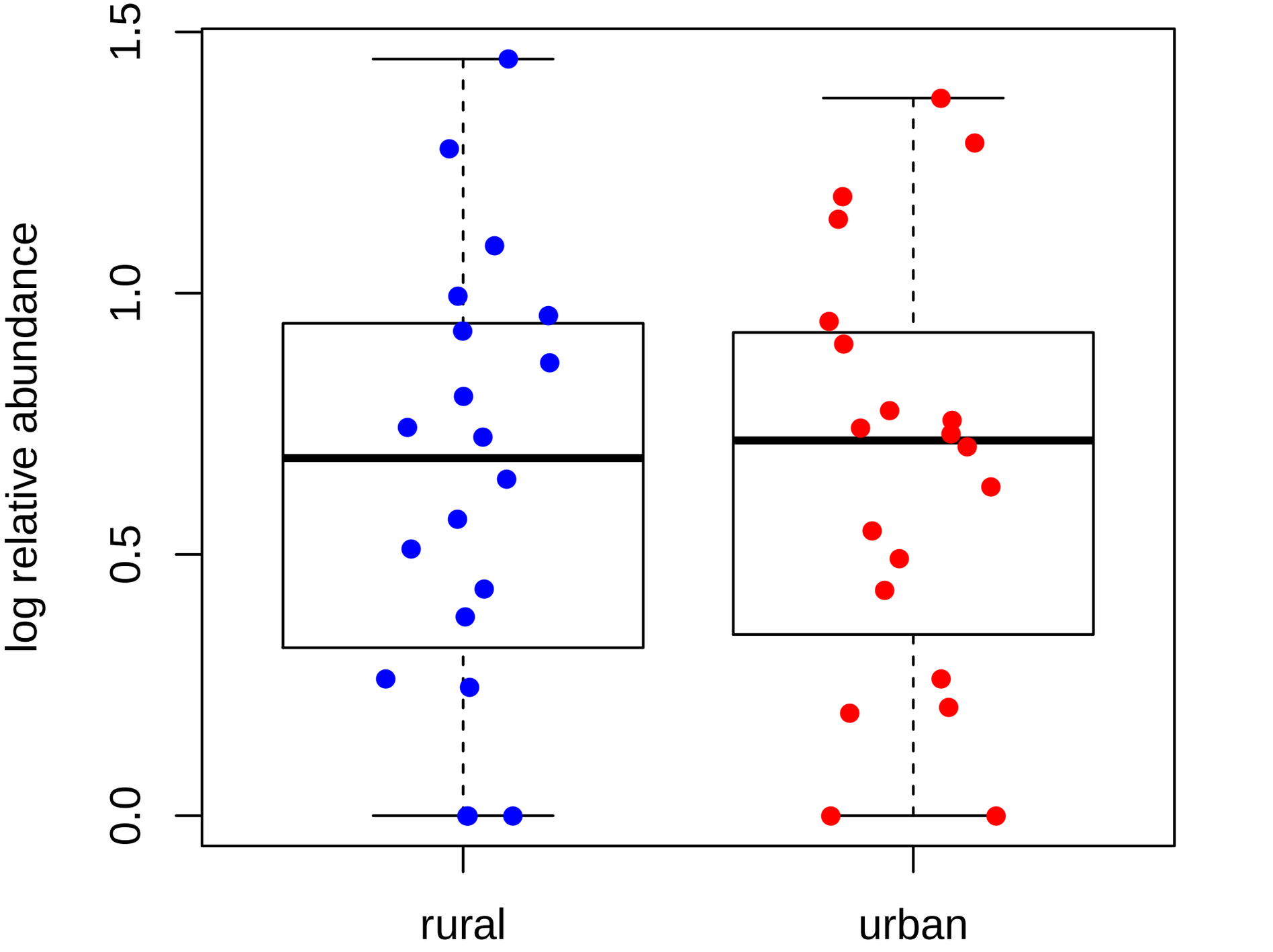

WGS species: Vibrio_anguillarum
pAdjRuralUrban= 0.914
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

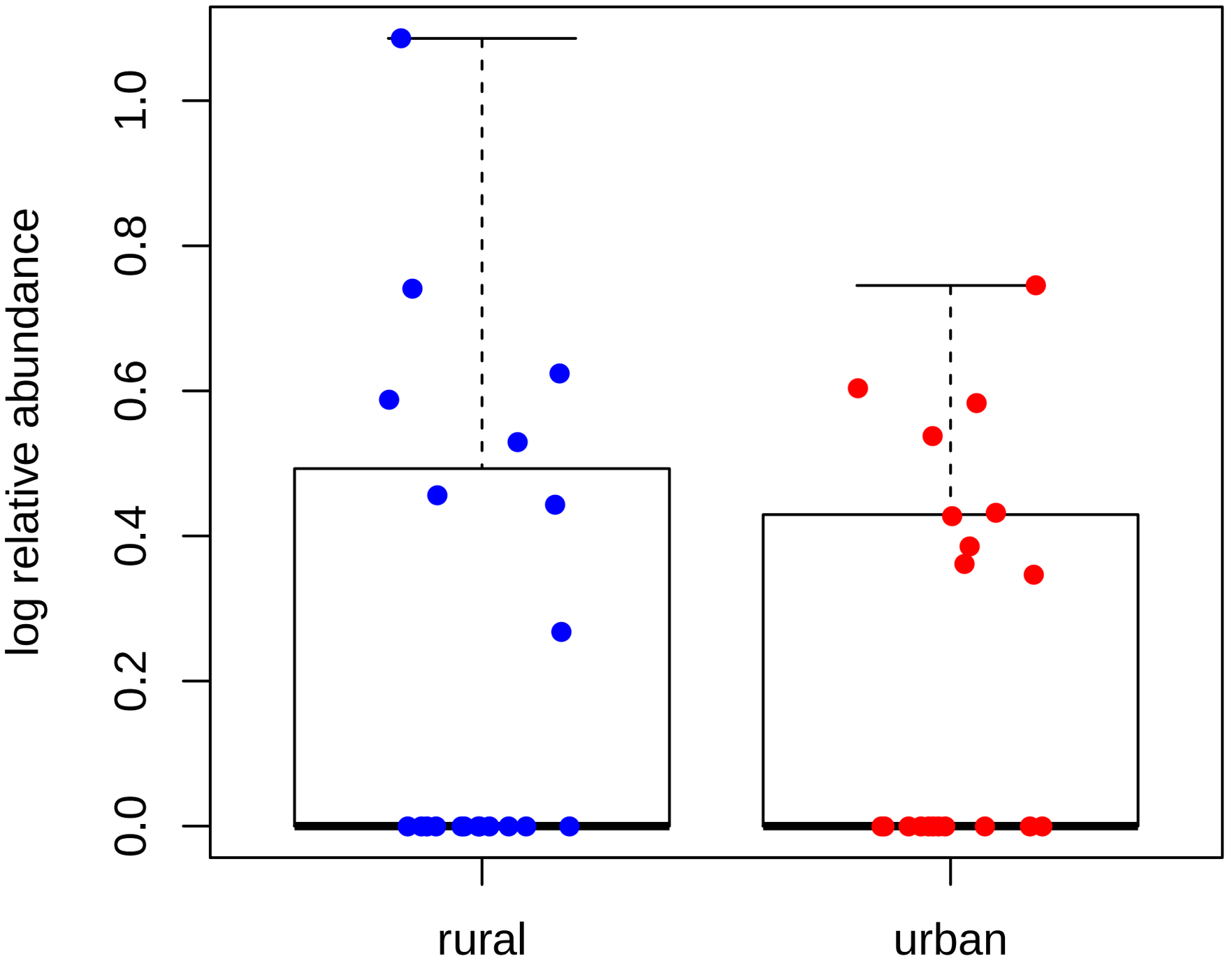

WGS species: Aerococcus_urinae
pAdjRuralUrban= 0.915
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

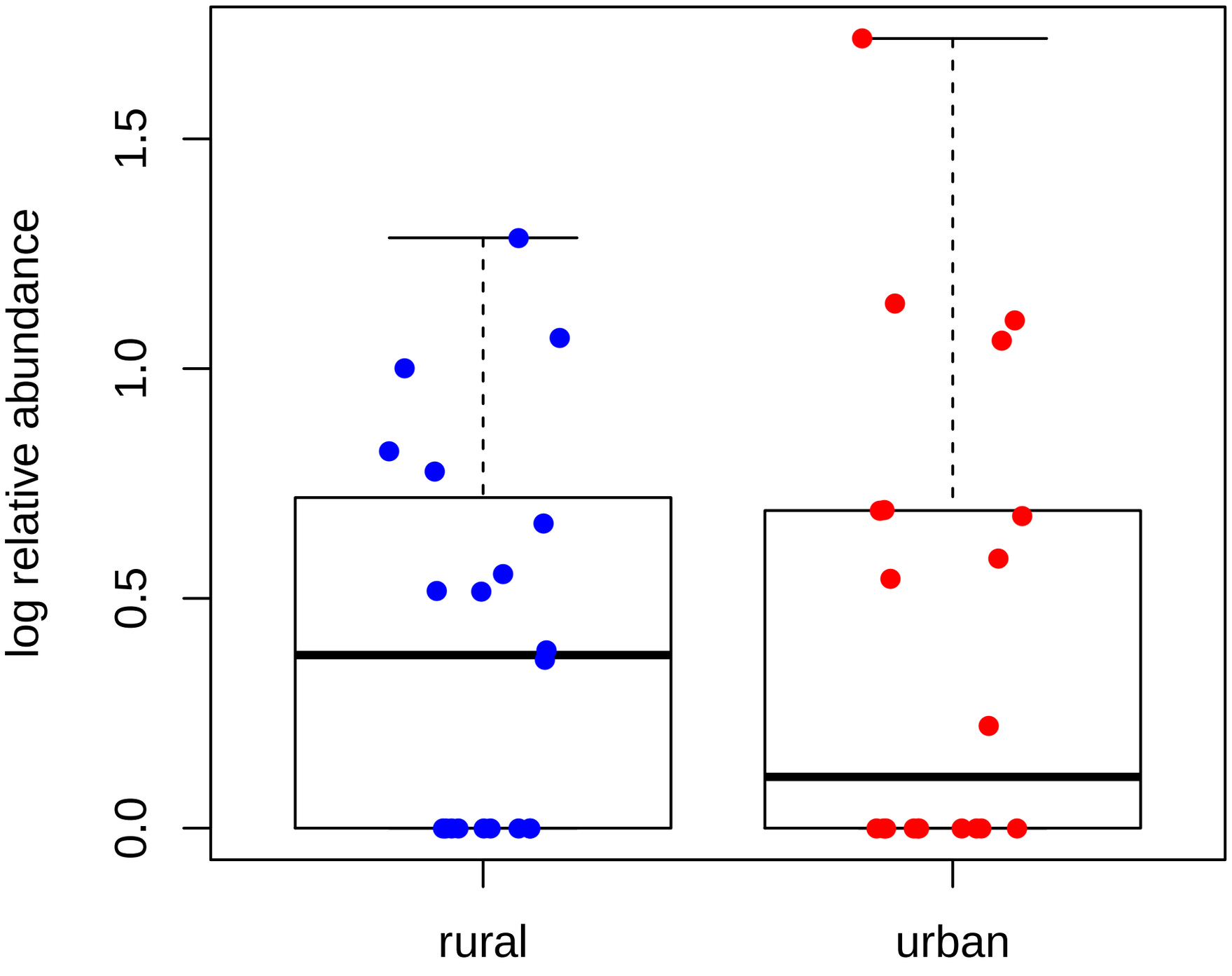

WGS species: Bacillus_sp._JS
pAdjRuralUrban= 0.919
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

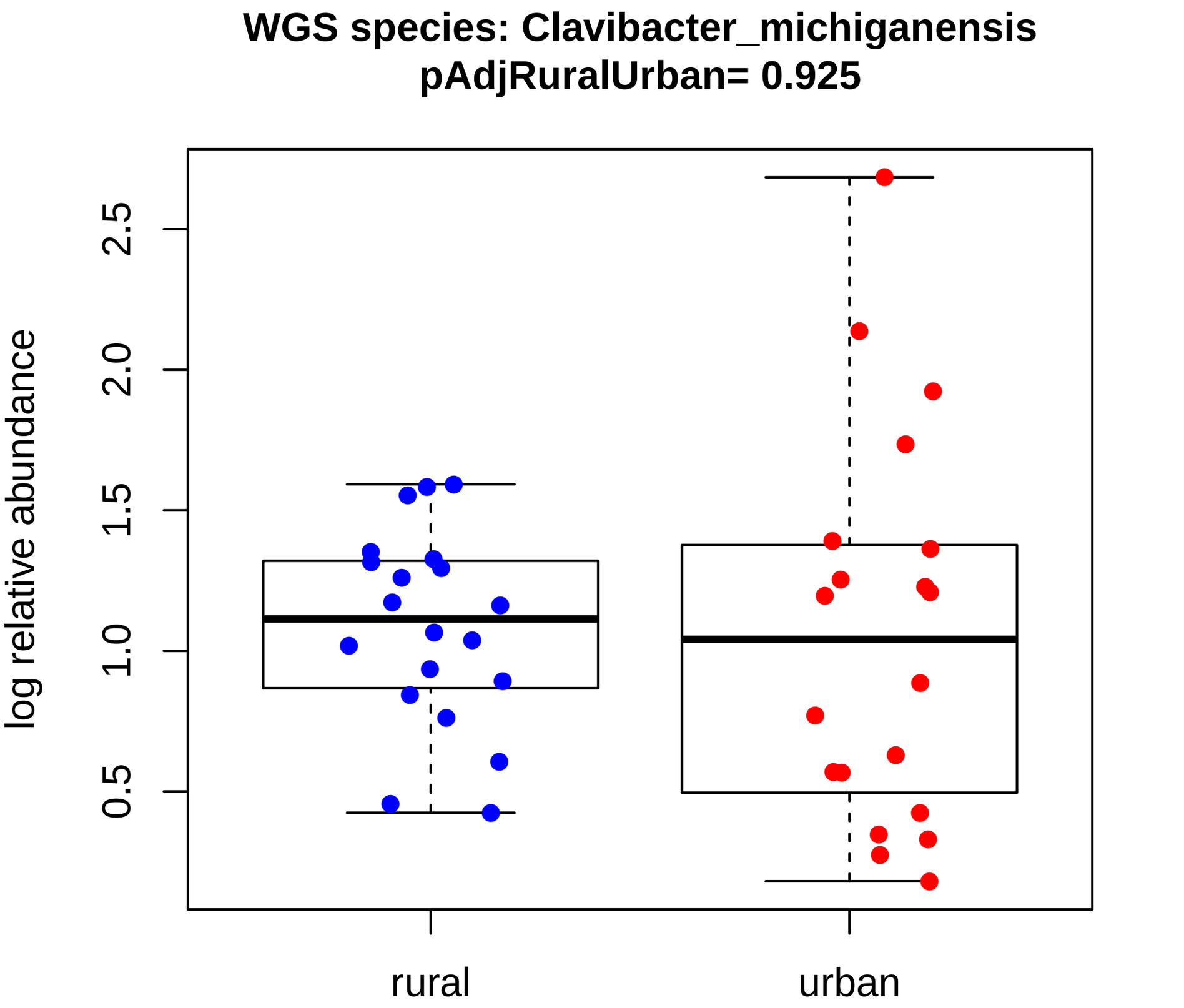

WGS species: Citrobacter_rodentium
pAdjRuralUrban= 0.92
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

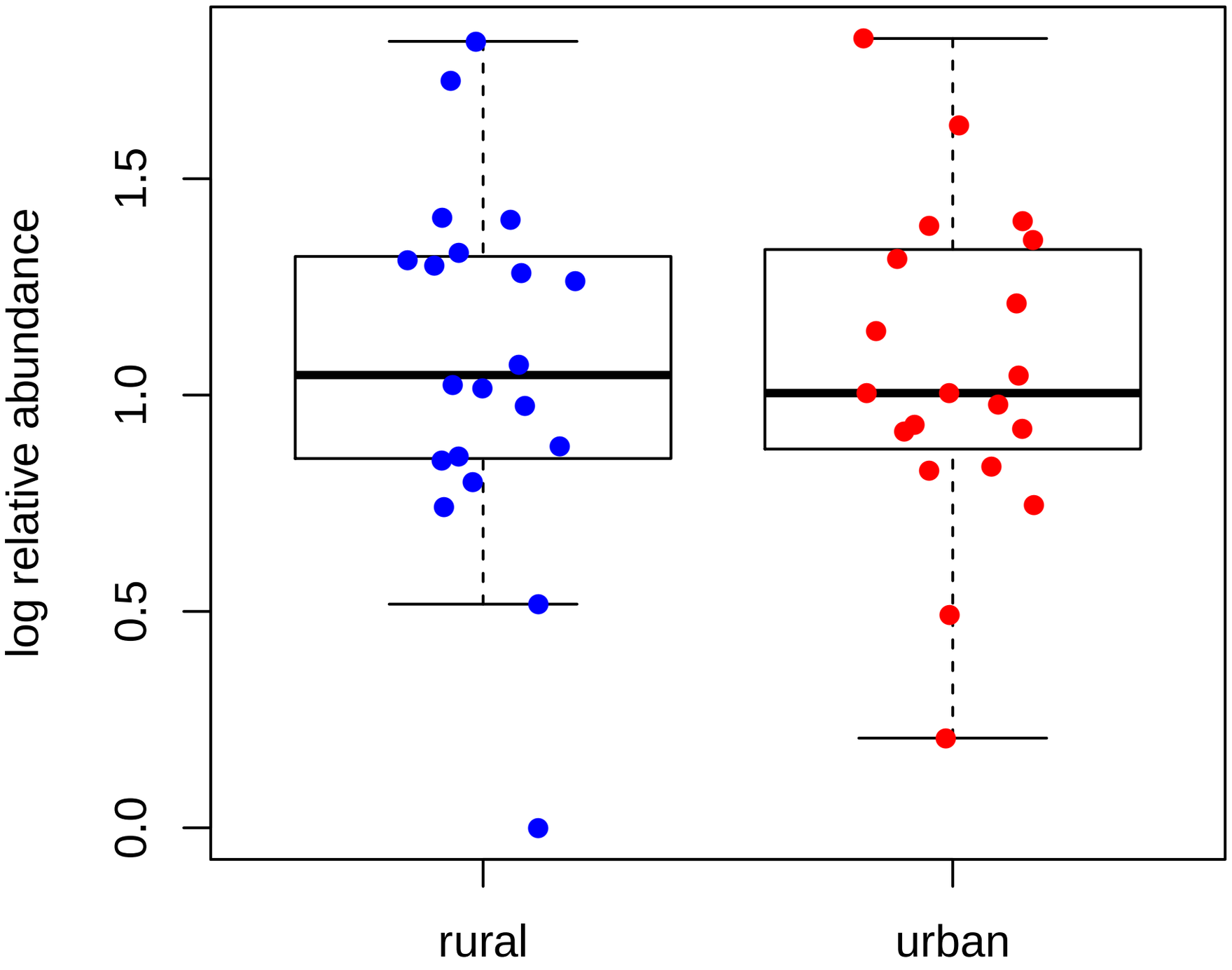

WGS species: Streptomyces_fulvissimus
pAdjRuralUrban= 0.92
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

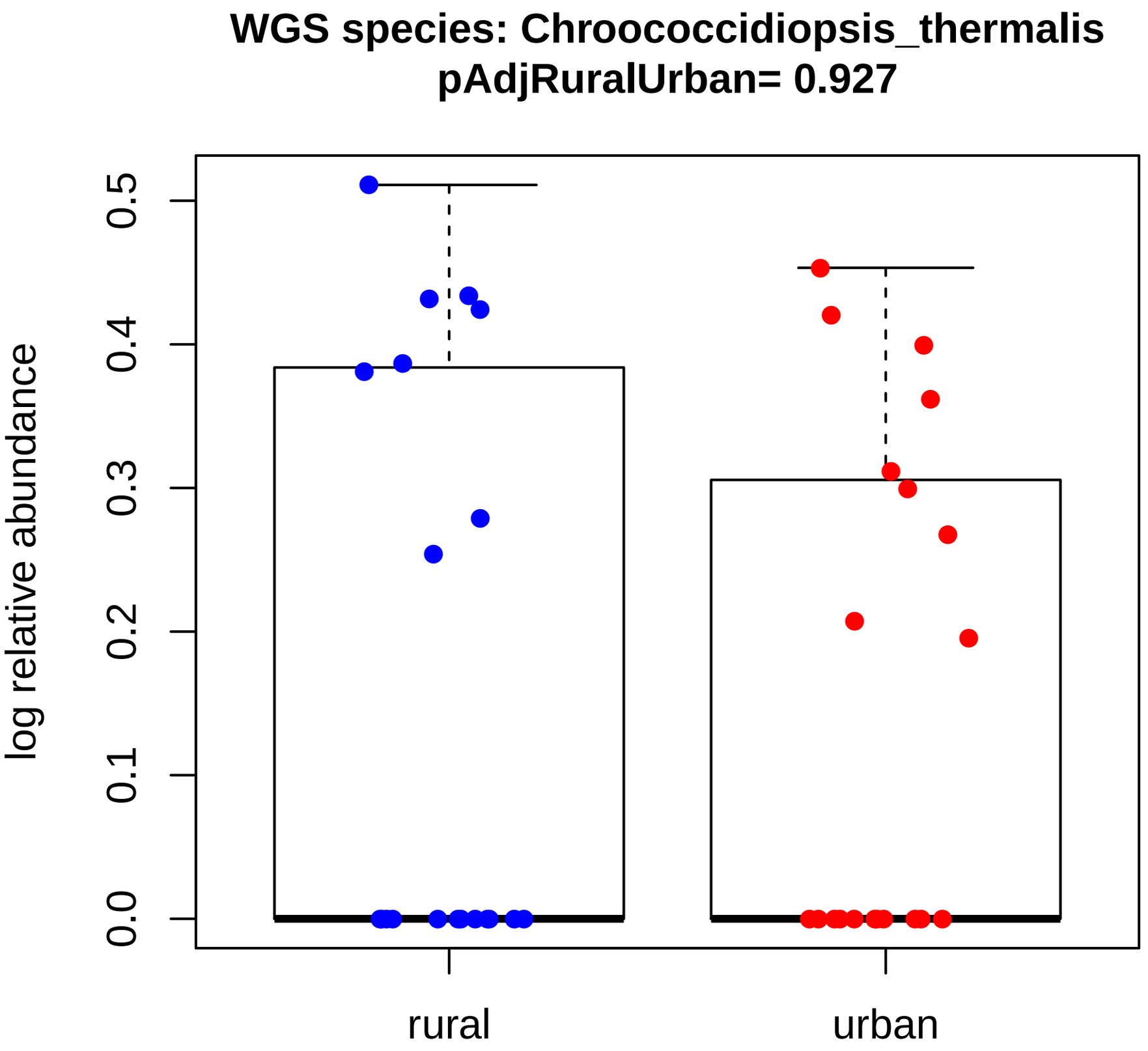

WGS species: Candidatus_Saccharimonas_aalborgensis
pAdjRuralUrban= 0.923
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

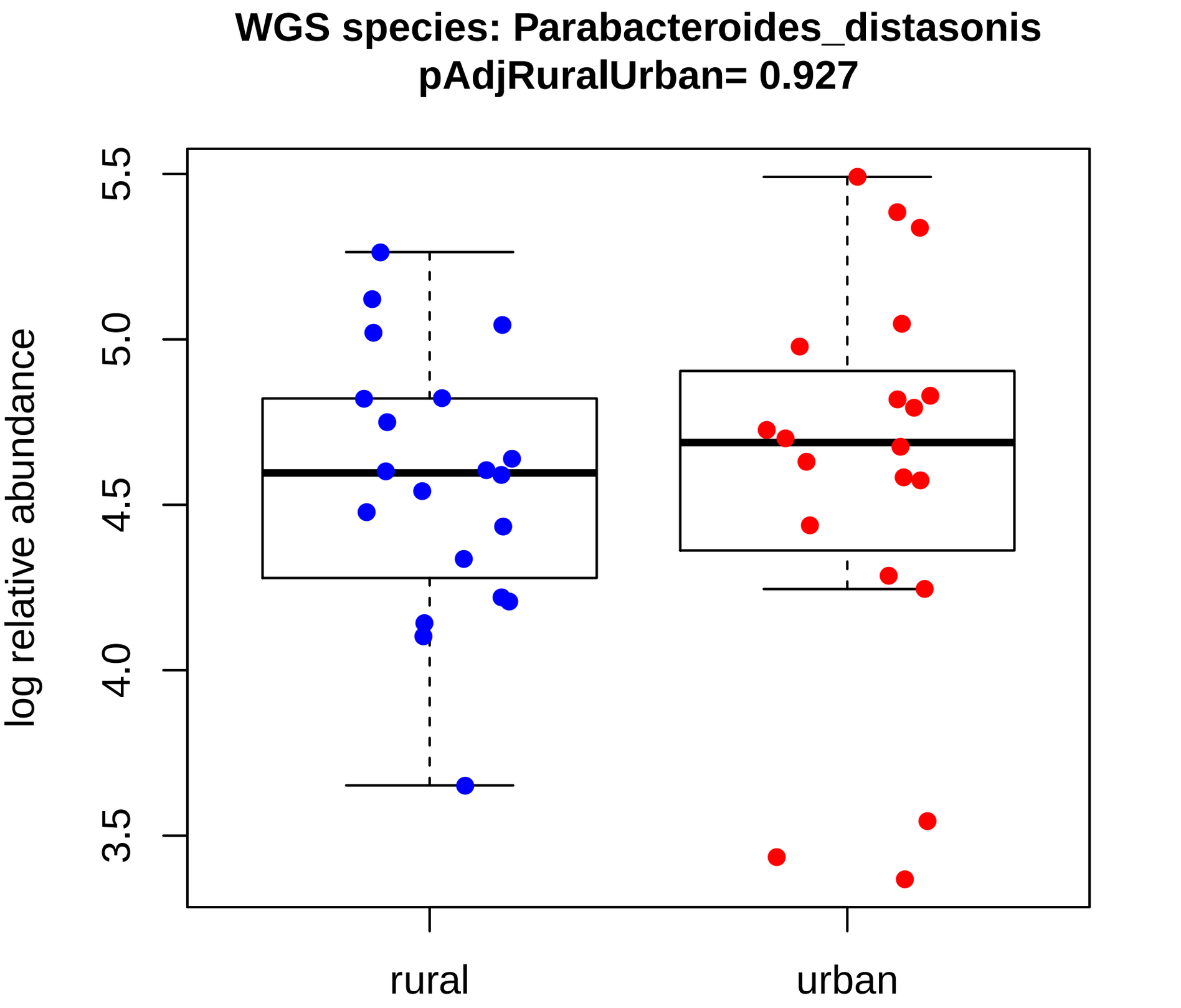

WGS species: Thermodesulfobium_narugense
pAdjRuralUrban= 0.923
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

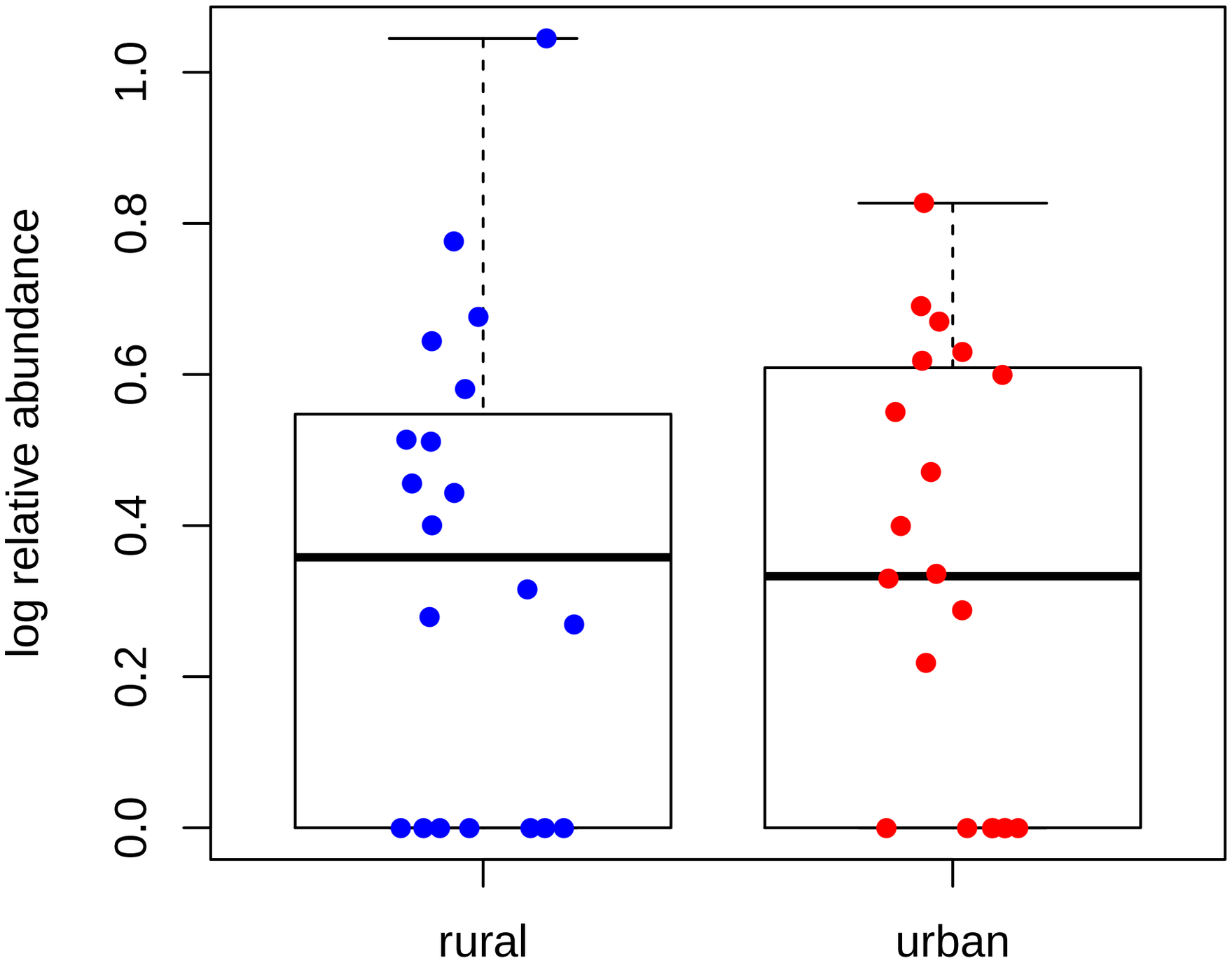

WGS species: Desulfohalobium_retbaense
pAdjRuralUrban= 0.923
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

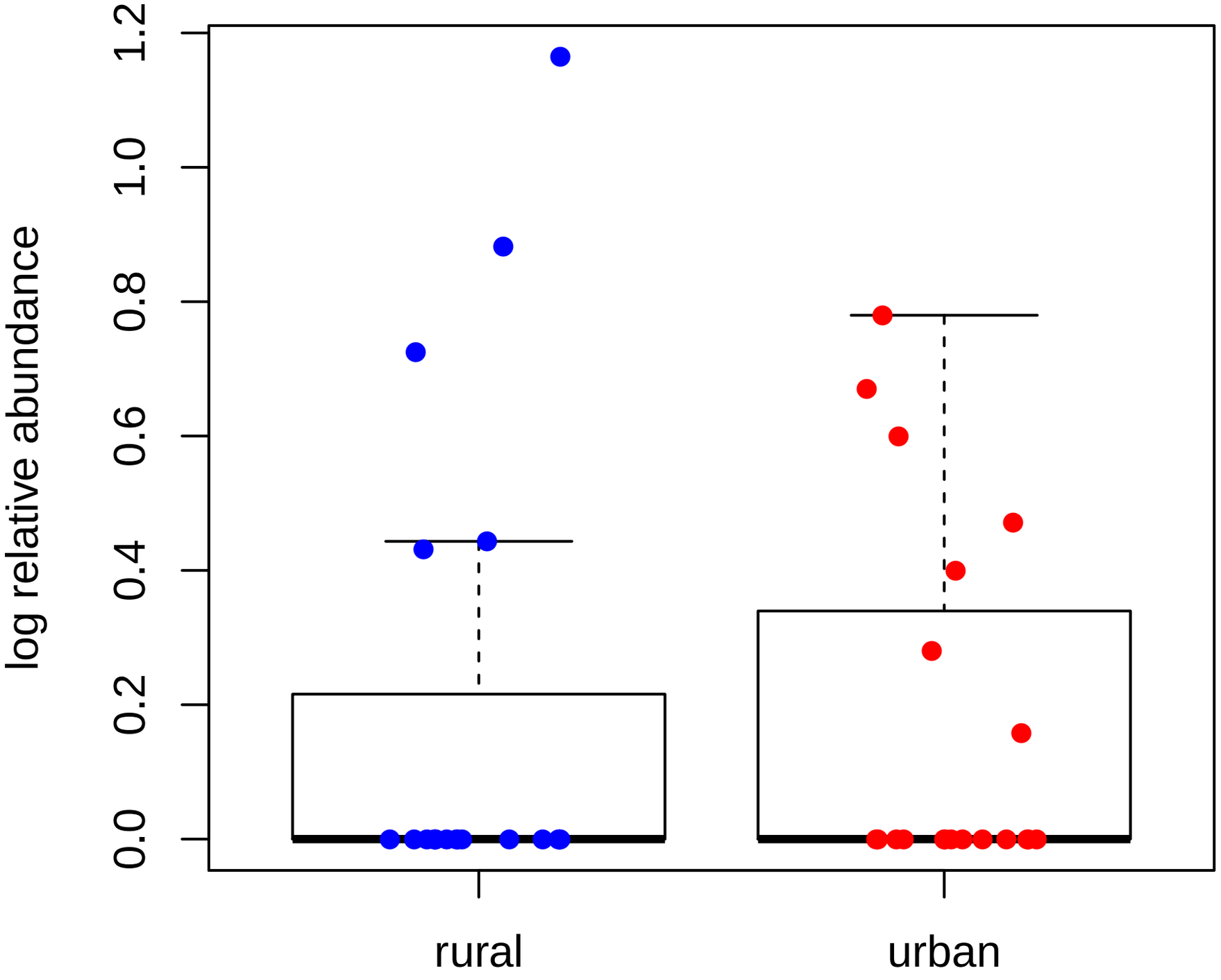

WGS species: Clavibacter_michiganensis
pAdjRuralUrban= 0.925
log relative abundance
0.5
1.0
1.5
2.0
2.5
rural
urban

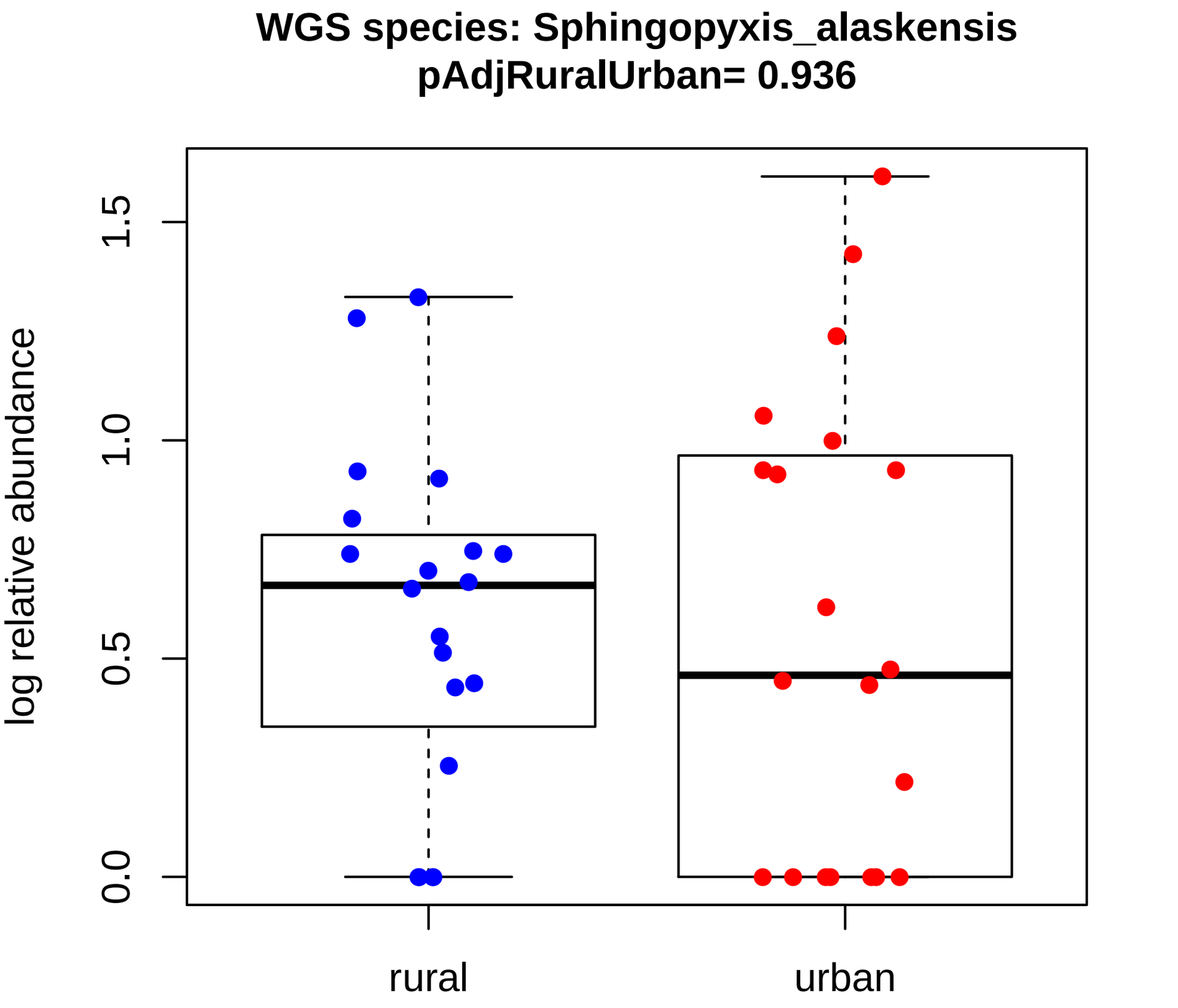

WGS species: Mahella_australiensis
pAdjRuralUrban= 0.926
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

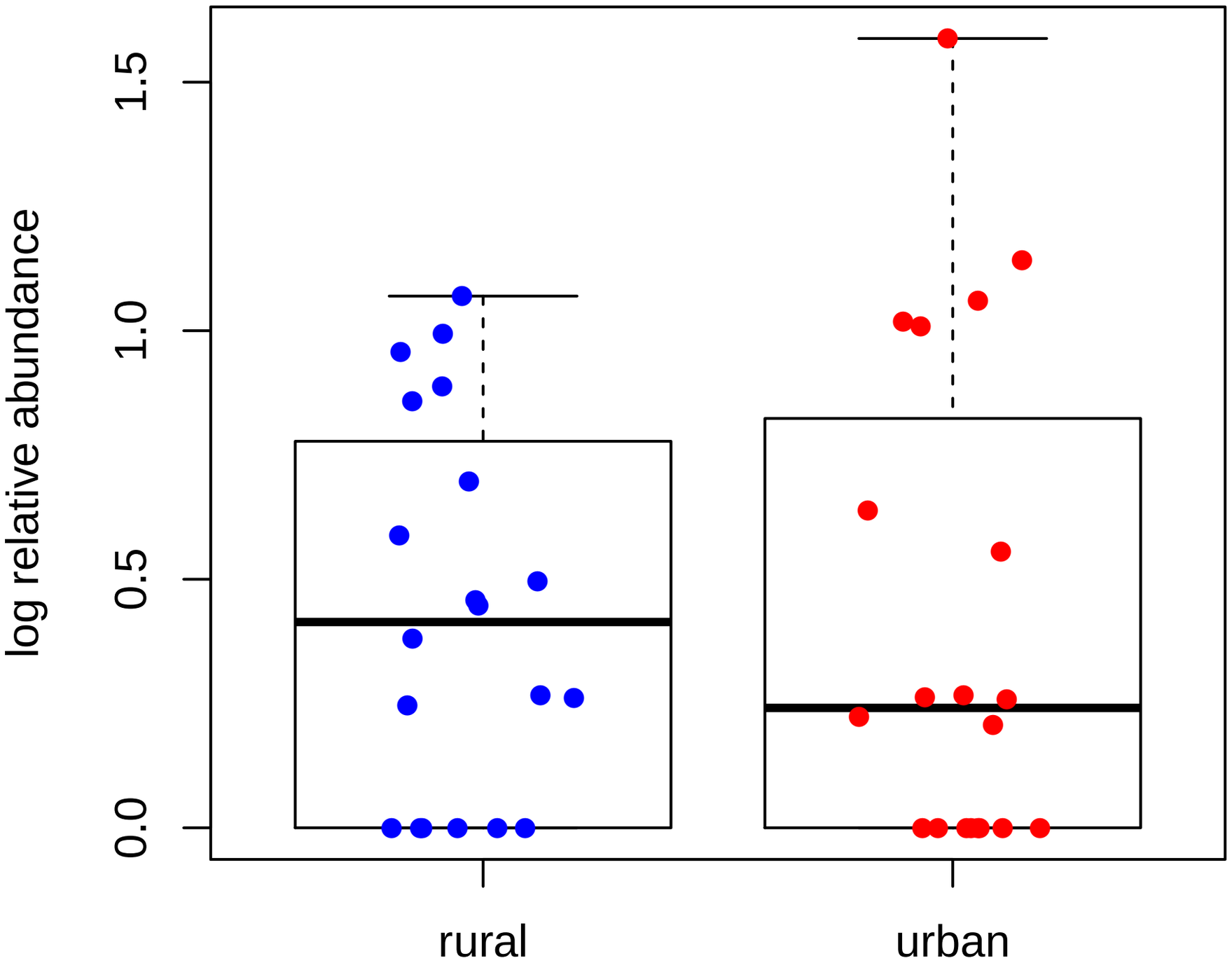

WGS species: Chroococcidiopsis_thermalis
pAdjRuralUrban= 0.927
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
rural
urban

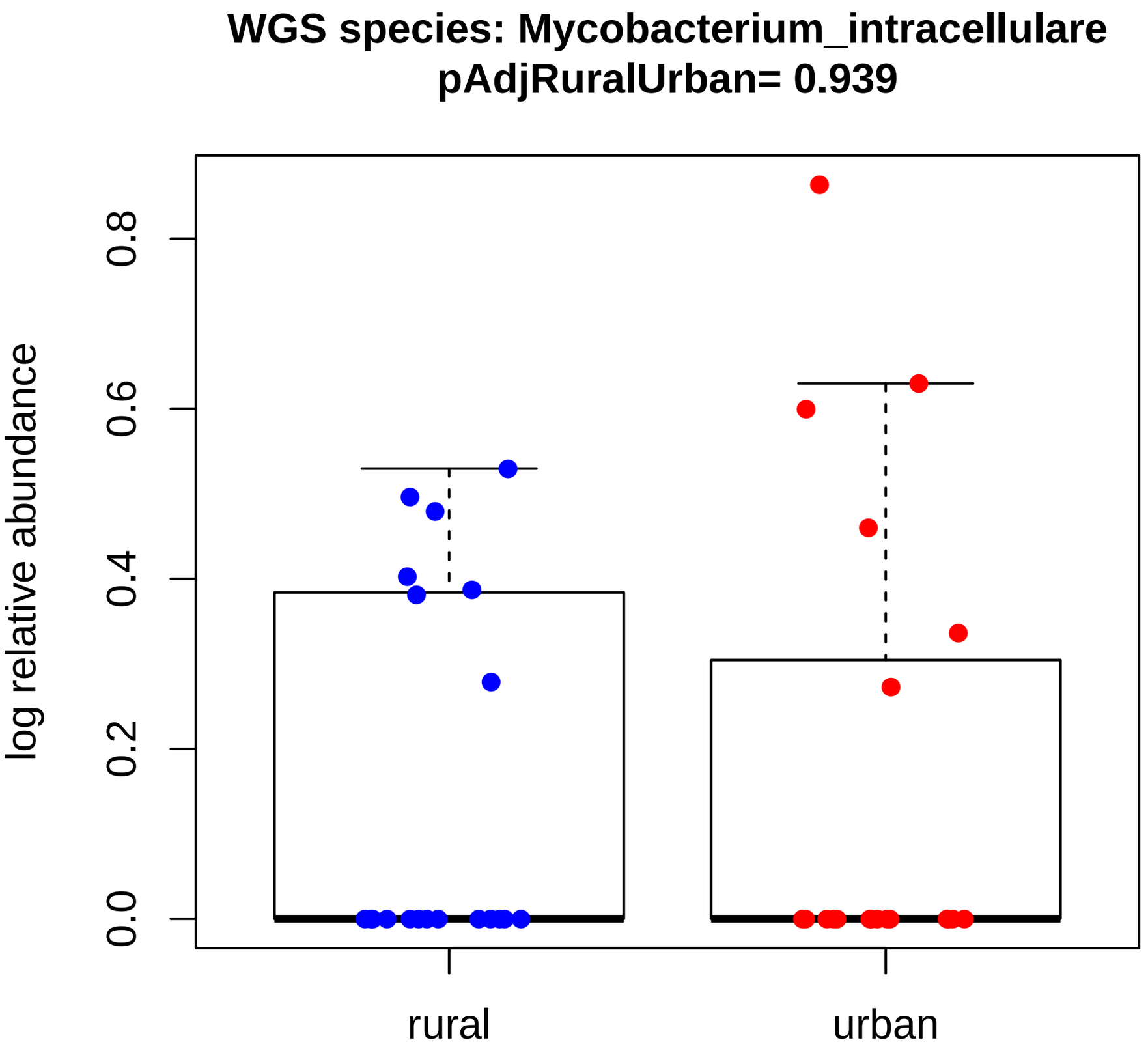

WGS species: Parabacteroides_distasonis
pAdjRuralUrban= 0.927
log relative abundance
5.5
5.0
4.5
4.0
3.5
rural
urban

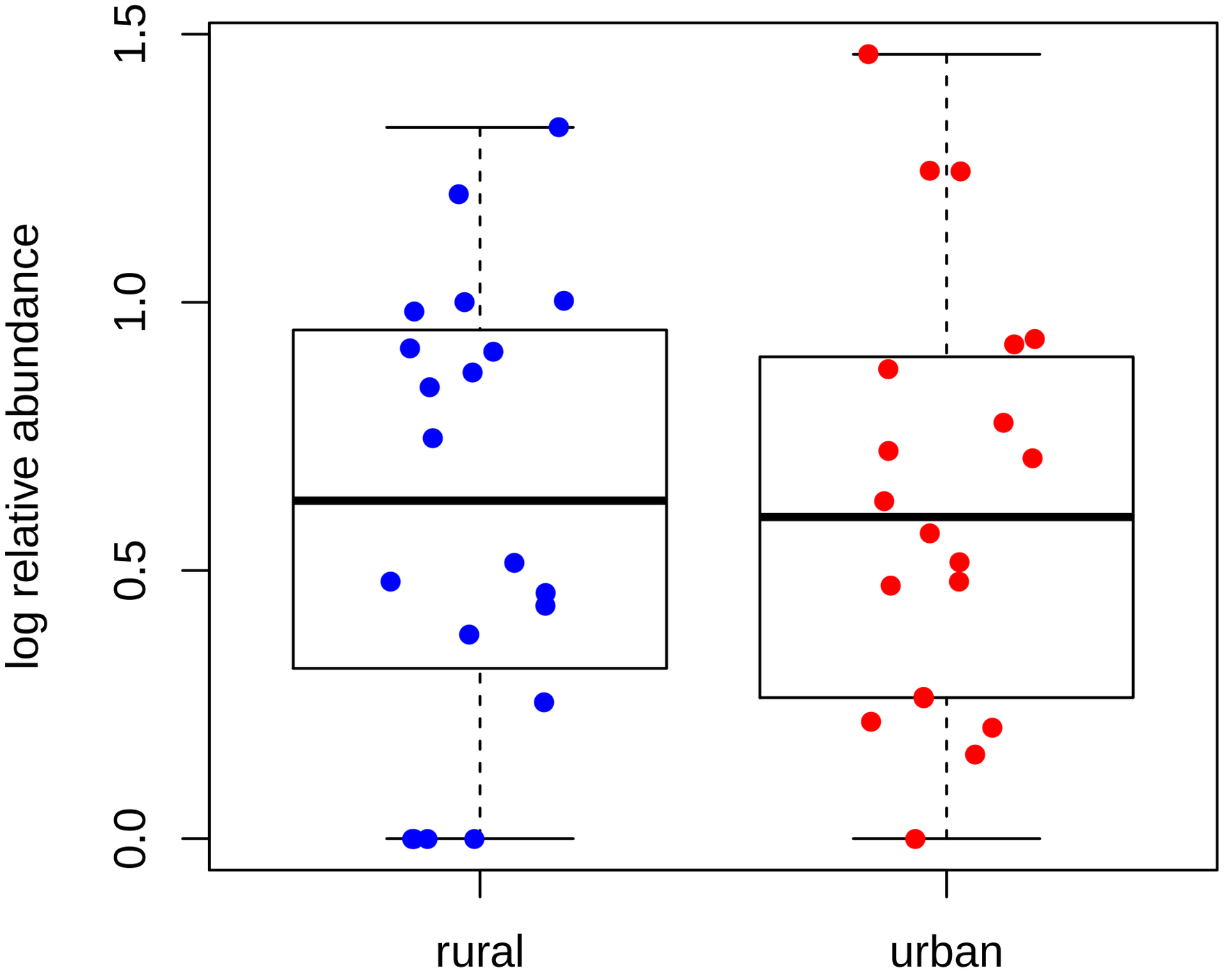

WGS species: Pseudomonas_savastanoi
pAdjRuralUrban= 0.932
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

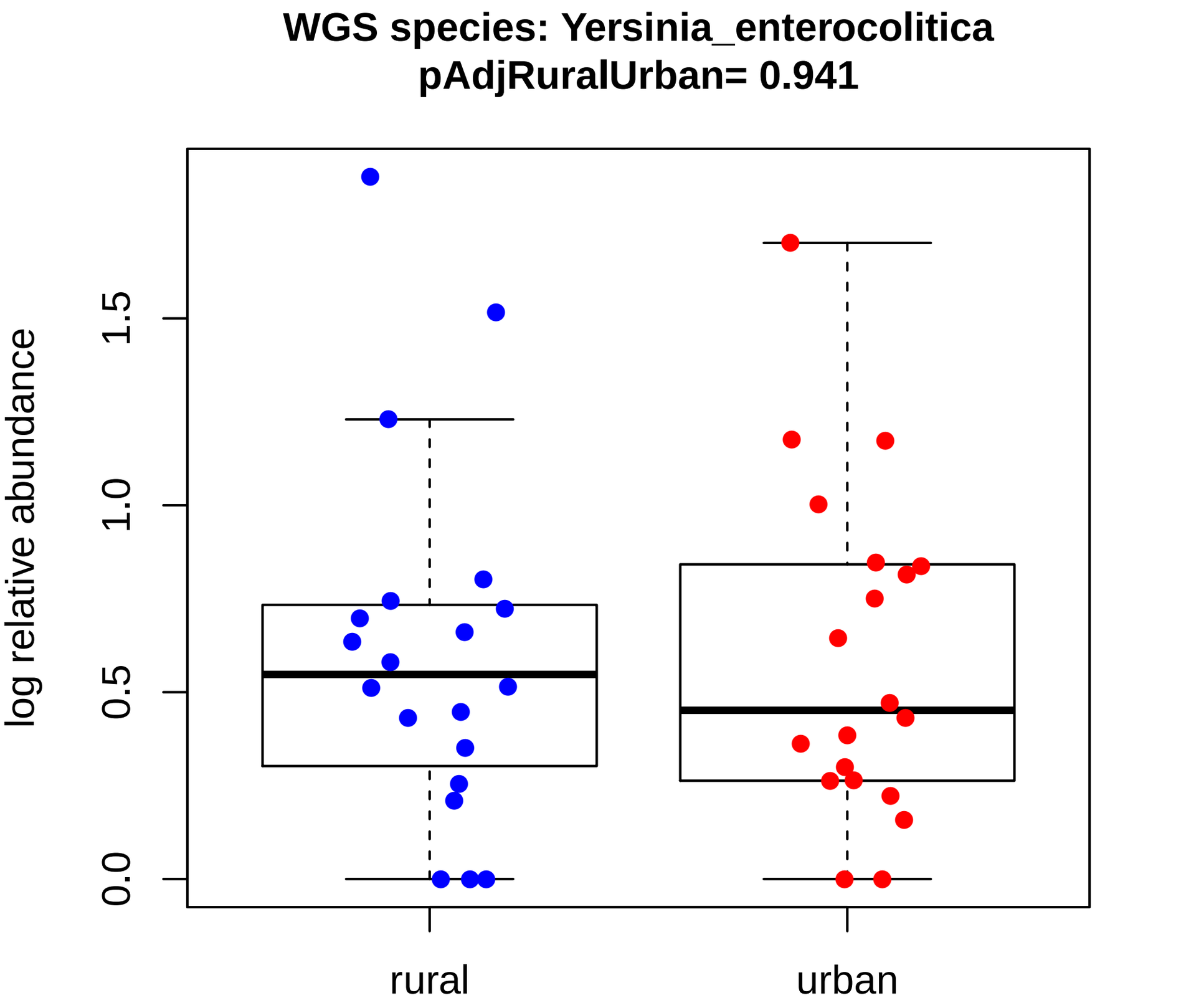

WGS species: Aquifex_aeolicus
pAdjRuralUrban= 0.932
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

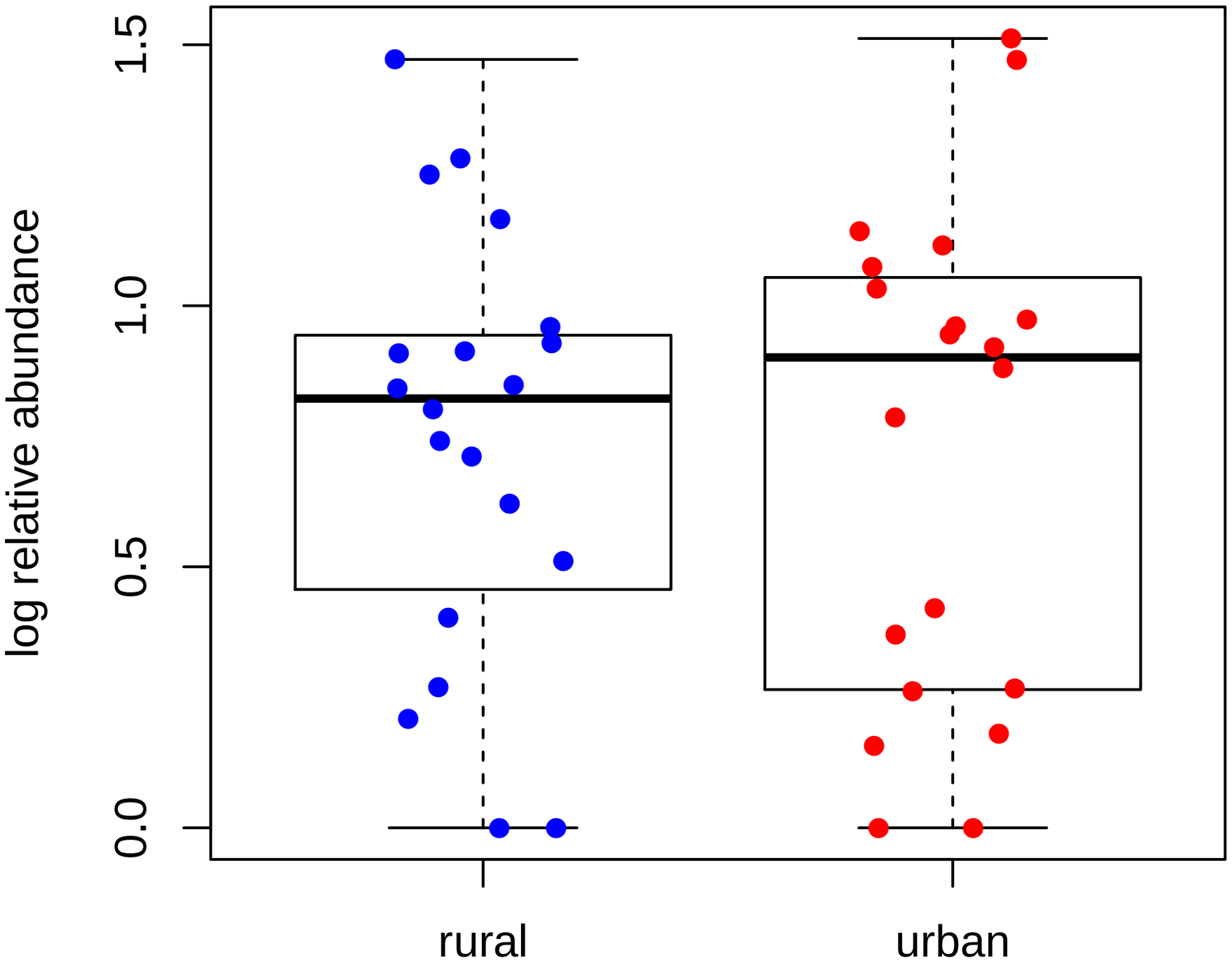

WGS species: Sphingopyxis_alaskensis
pAdjRuralUrban= 0.936
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

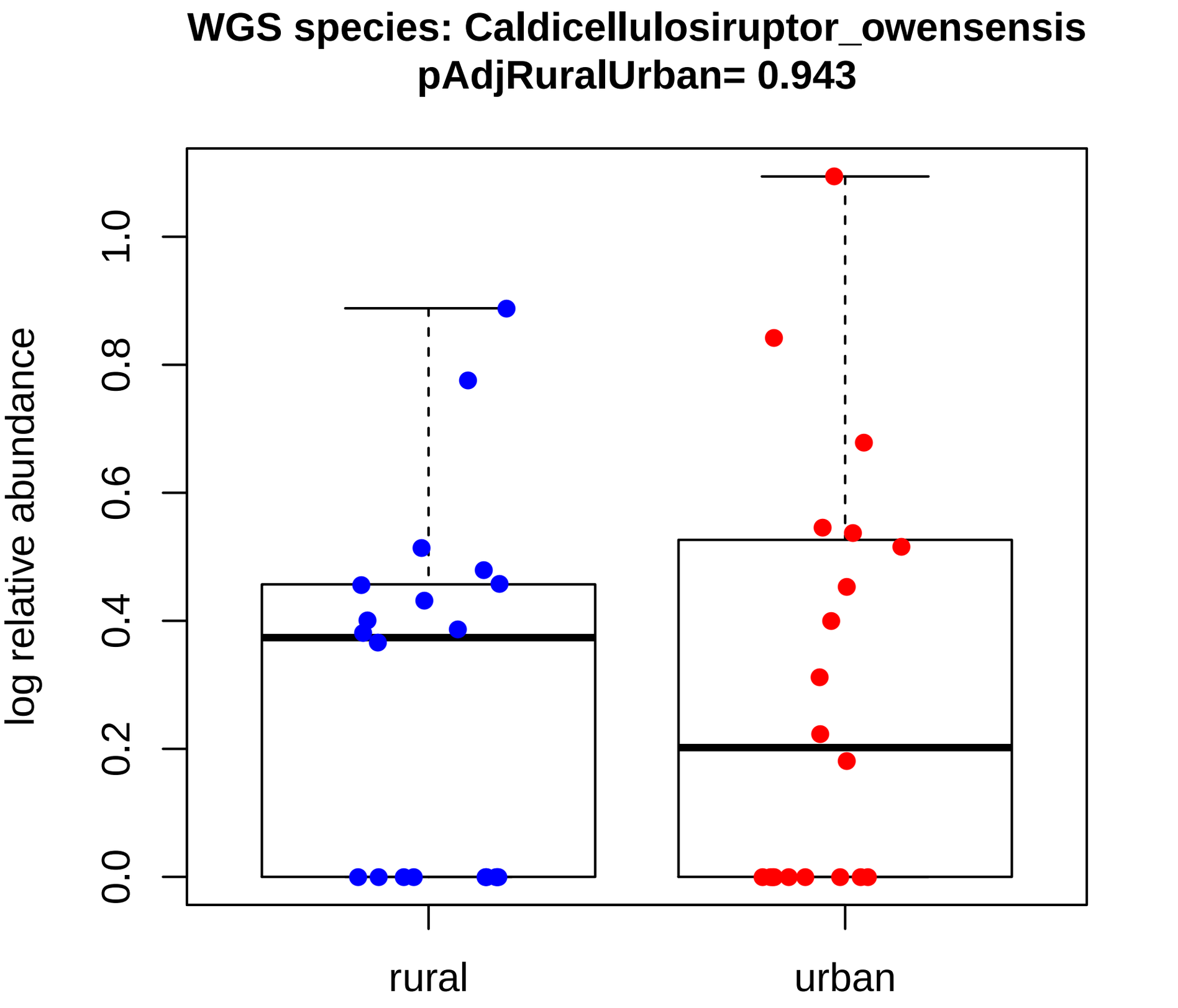

WGS species: Streptomyces_cattleya
pAdjRuralUrban= 0.938
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

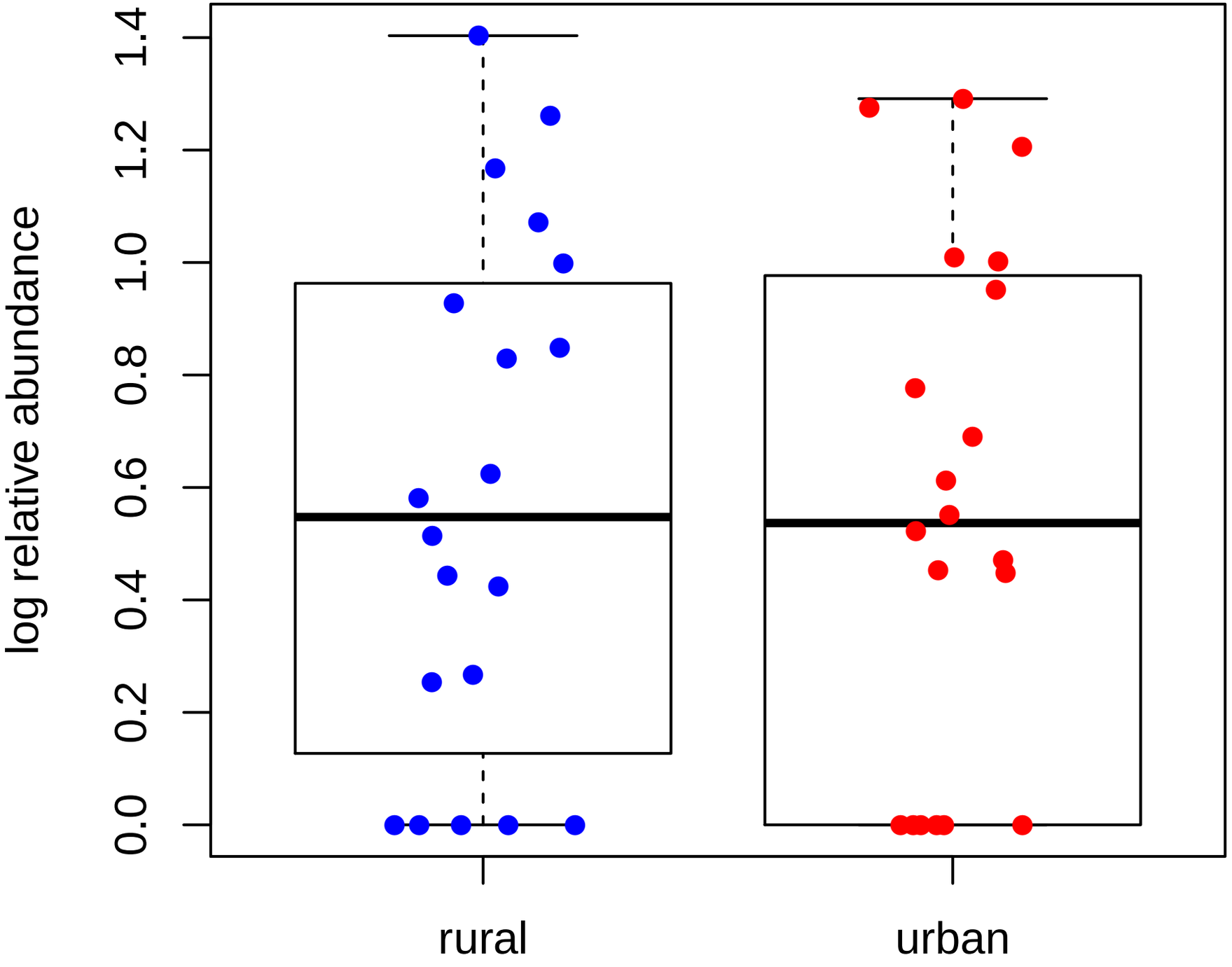

WGS species: Mycobacterium_intracellulare
pAdjRuralUrban= 0.939
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

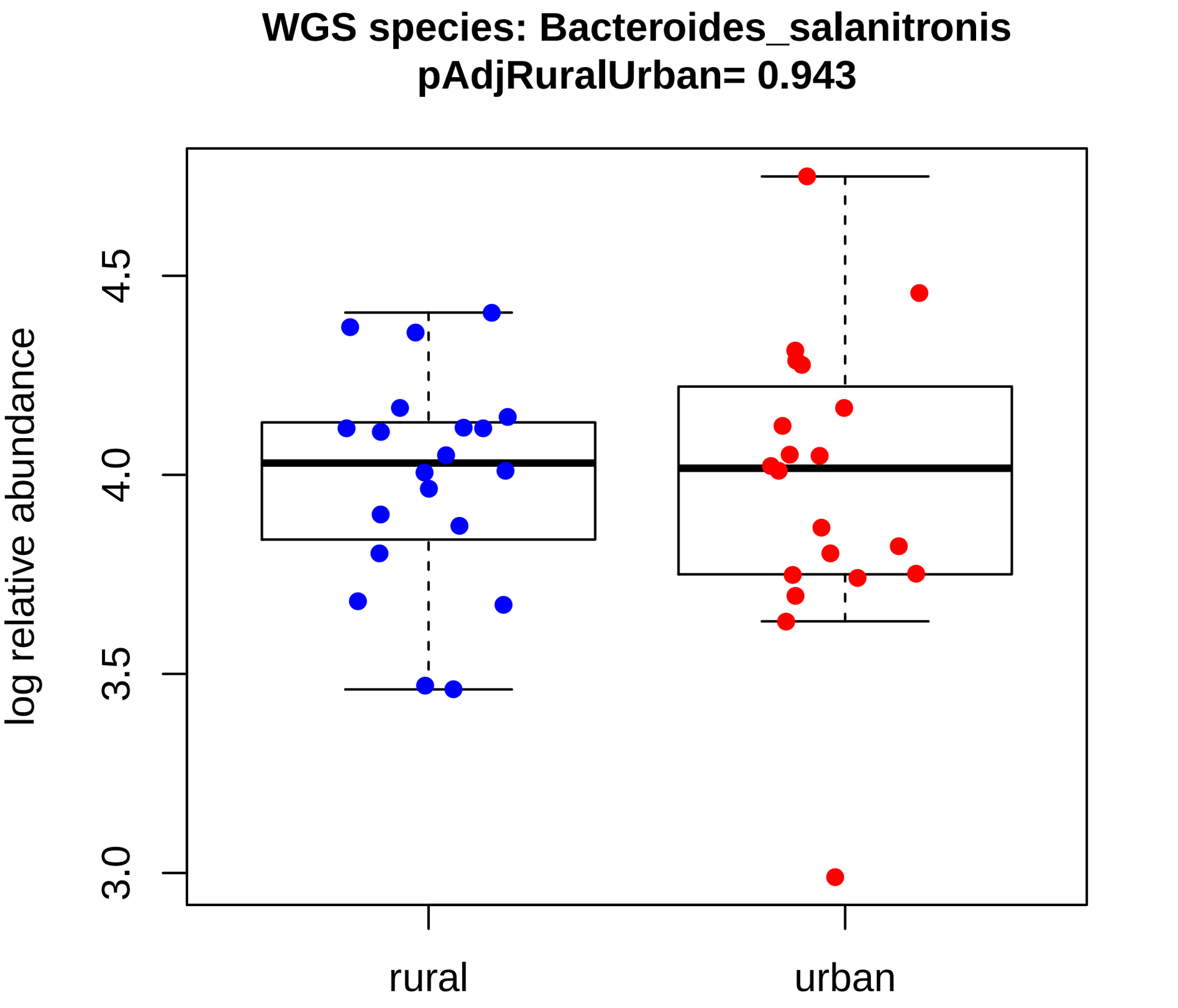

WGS species: Thioalkalivibrio_nitratireducens
pAdjRuralUrban= 0.939
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

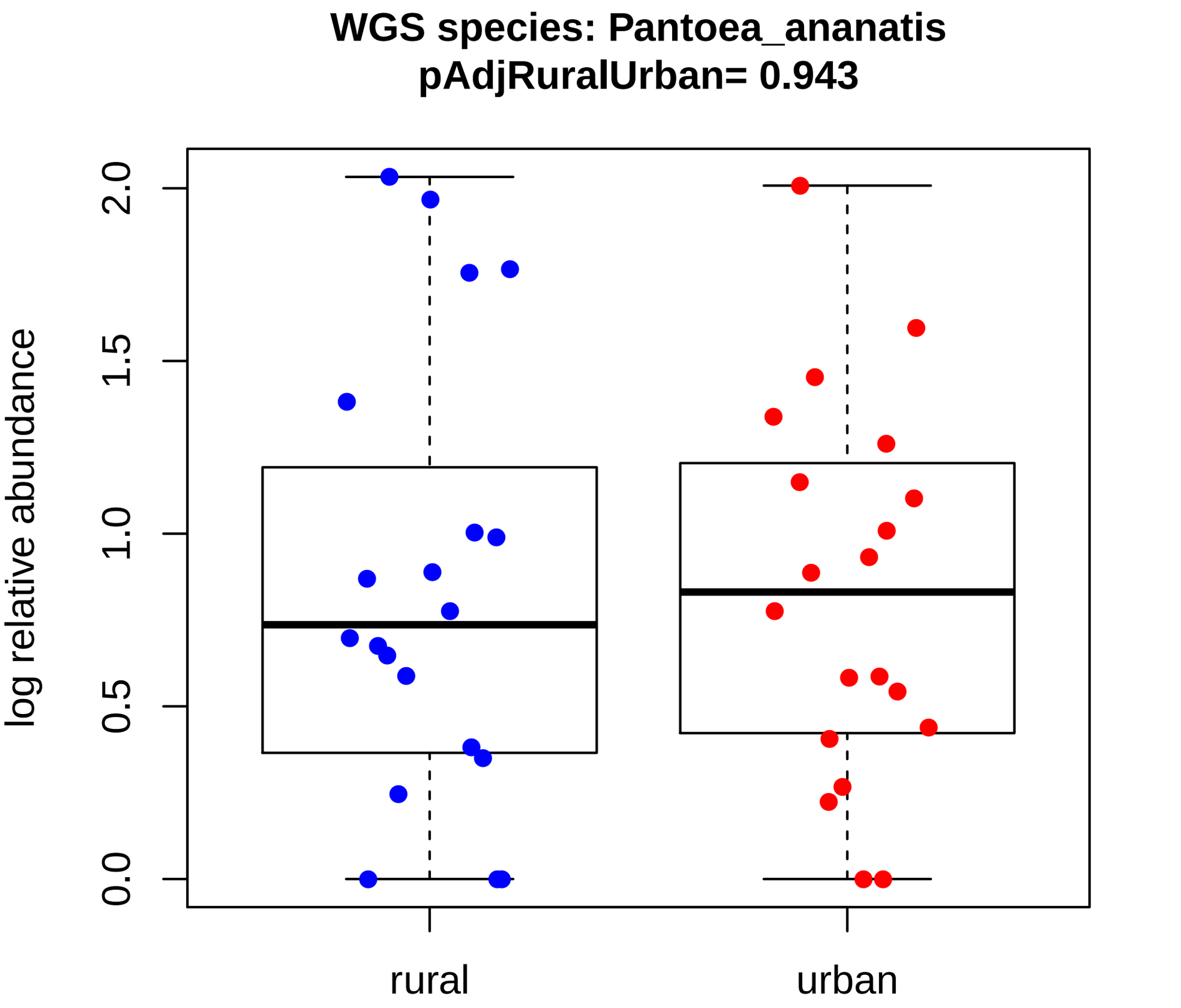

WGS species: Yersinia_enterocolitica
pAdjRuralUrban= 0.941
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

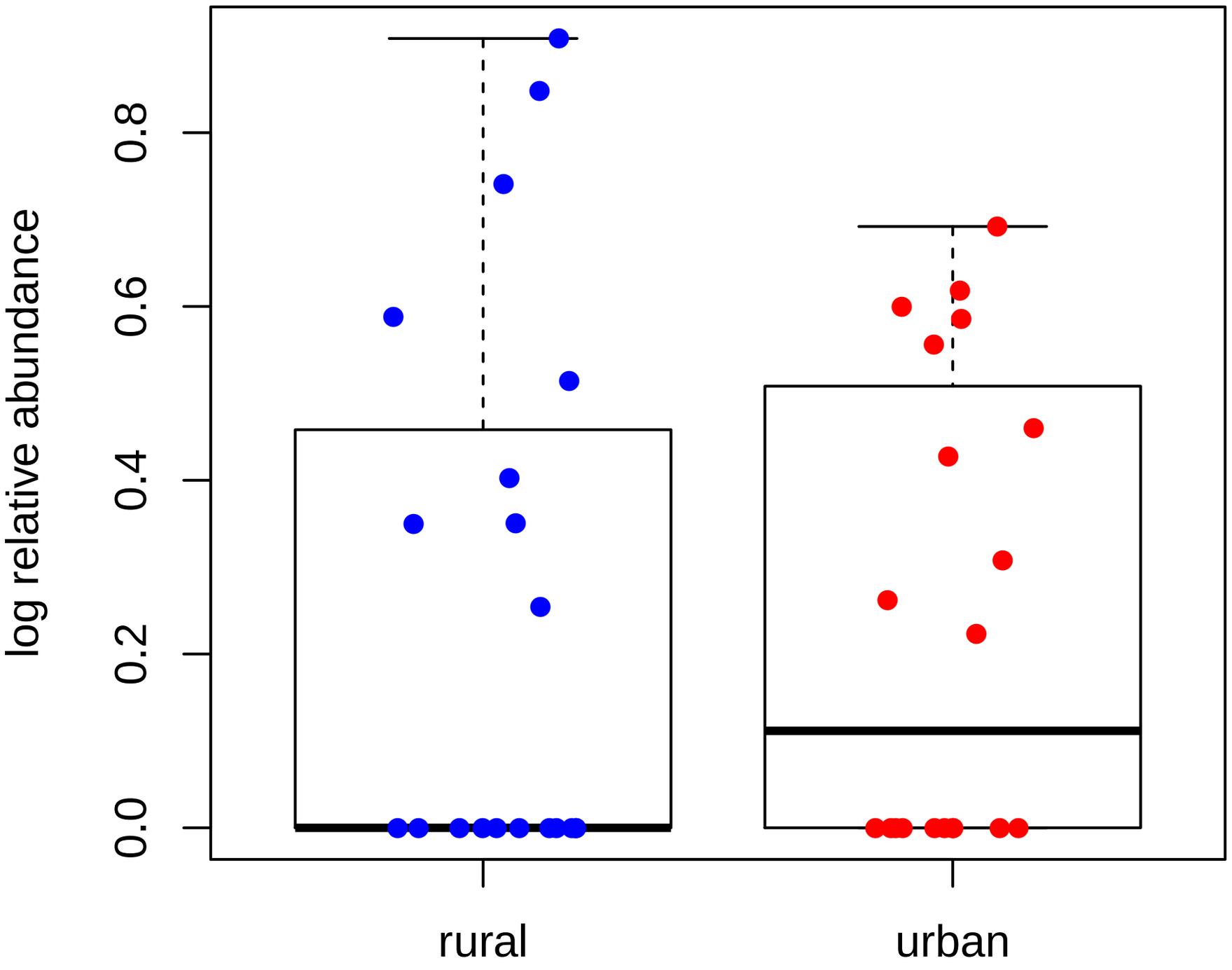

WGS species: Pseudogulbenkiania_sp._NH8B
pAdjRuralUrban= 0.941
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

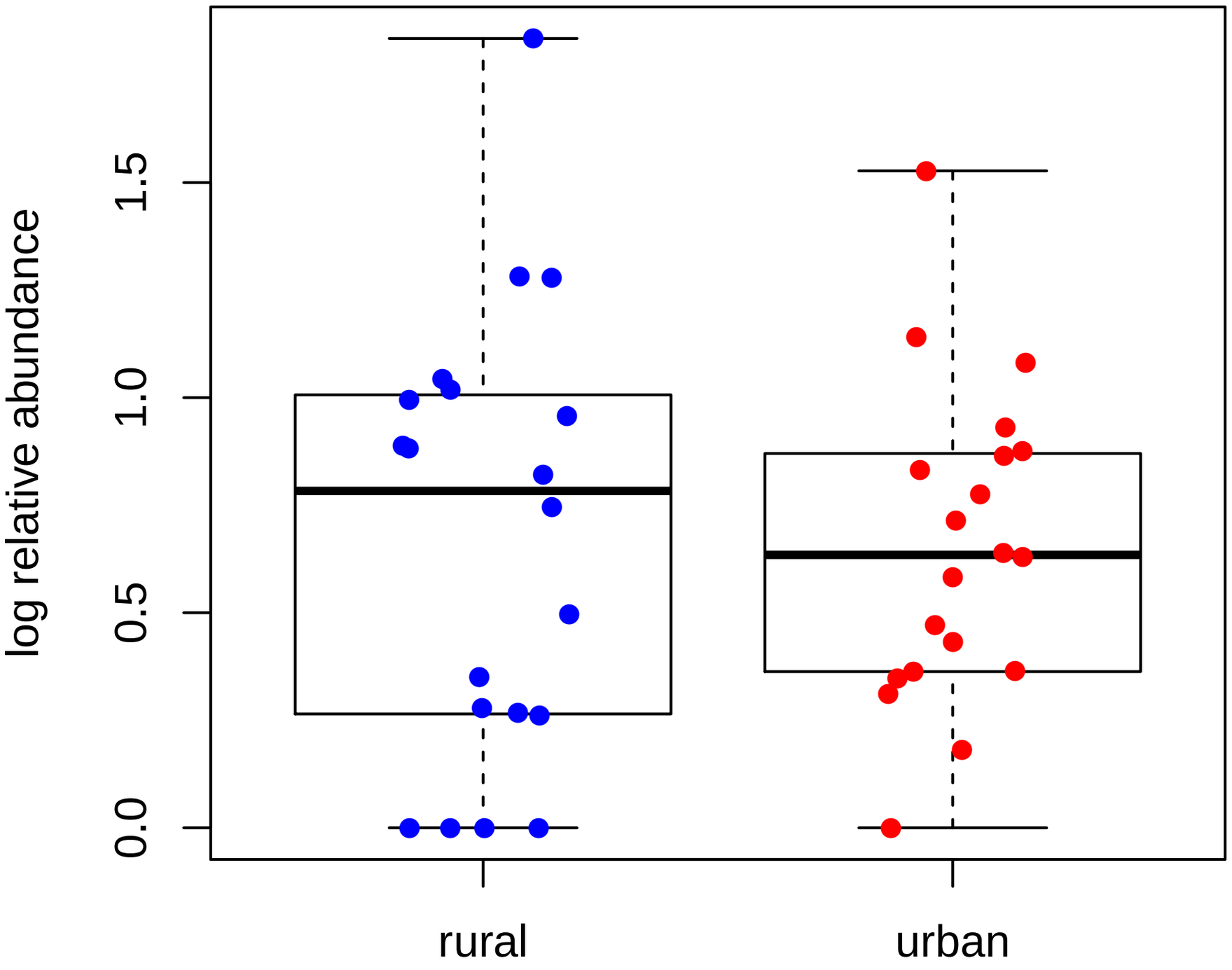

WGS species: Caldicellulosiruptor_owensensis
pAdjRuralUrban= 0.943
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

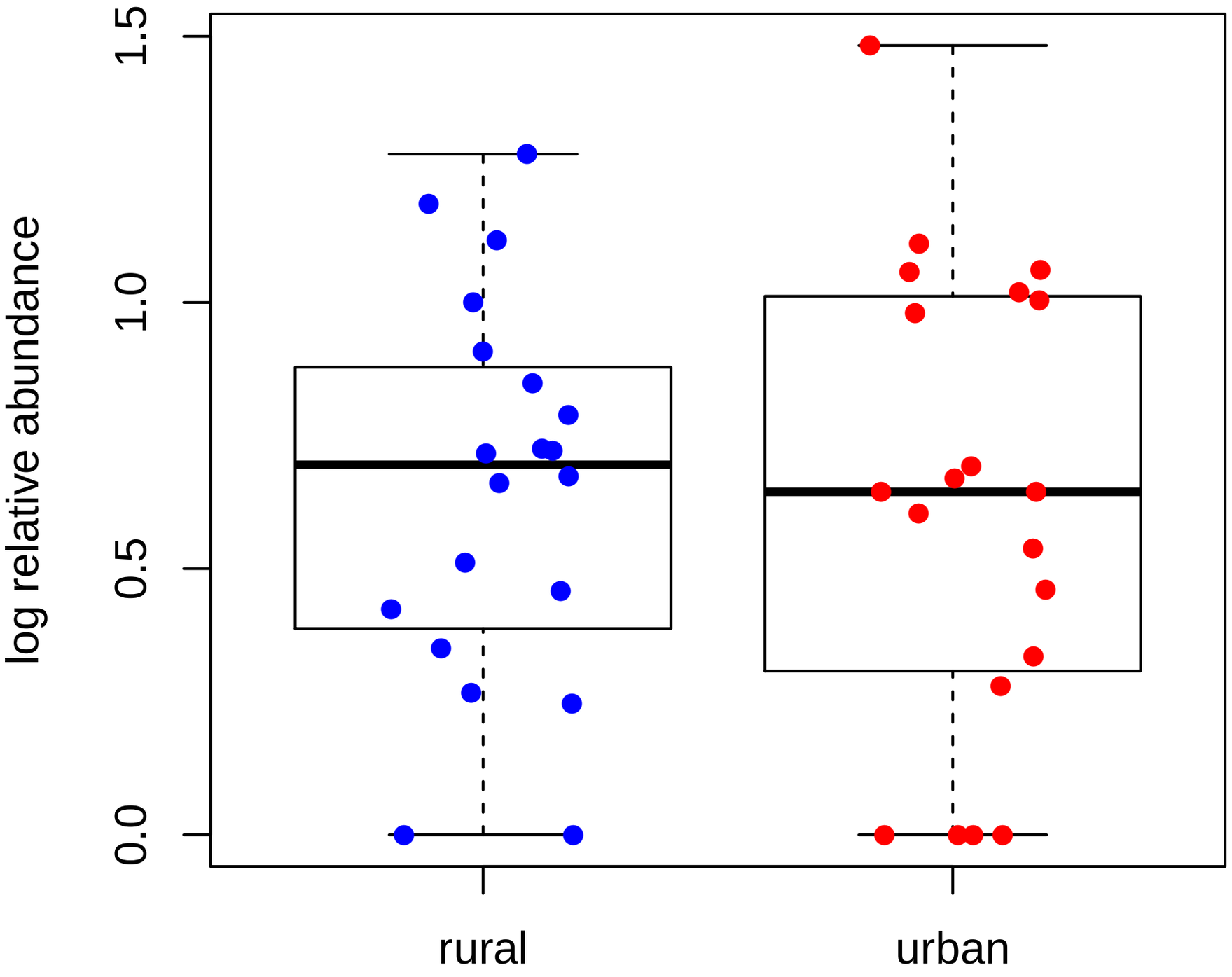

WGS species: Cellulophaga_algicola
pAdjRuralUrban= 0.943
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

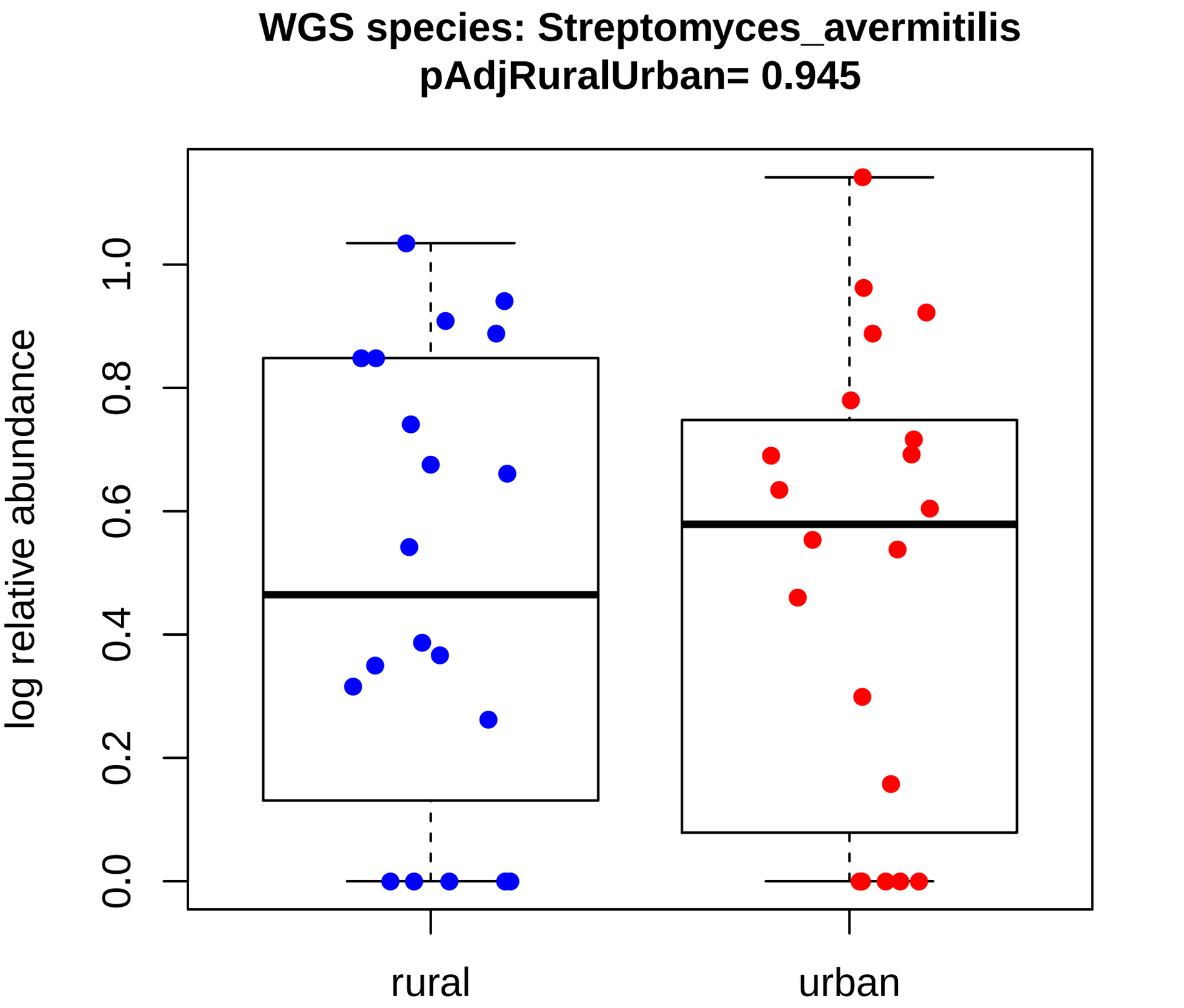

WGS species: Bacteroides_salanitronis
pAdjRuralUrban= 0.943
log relative abundance
3.0
3.5
4.0
4.5
rural
urban

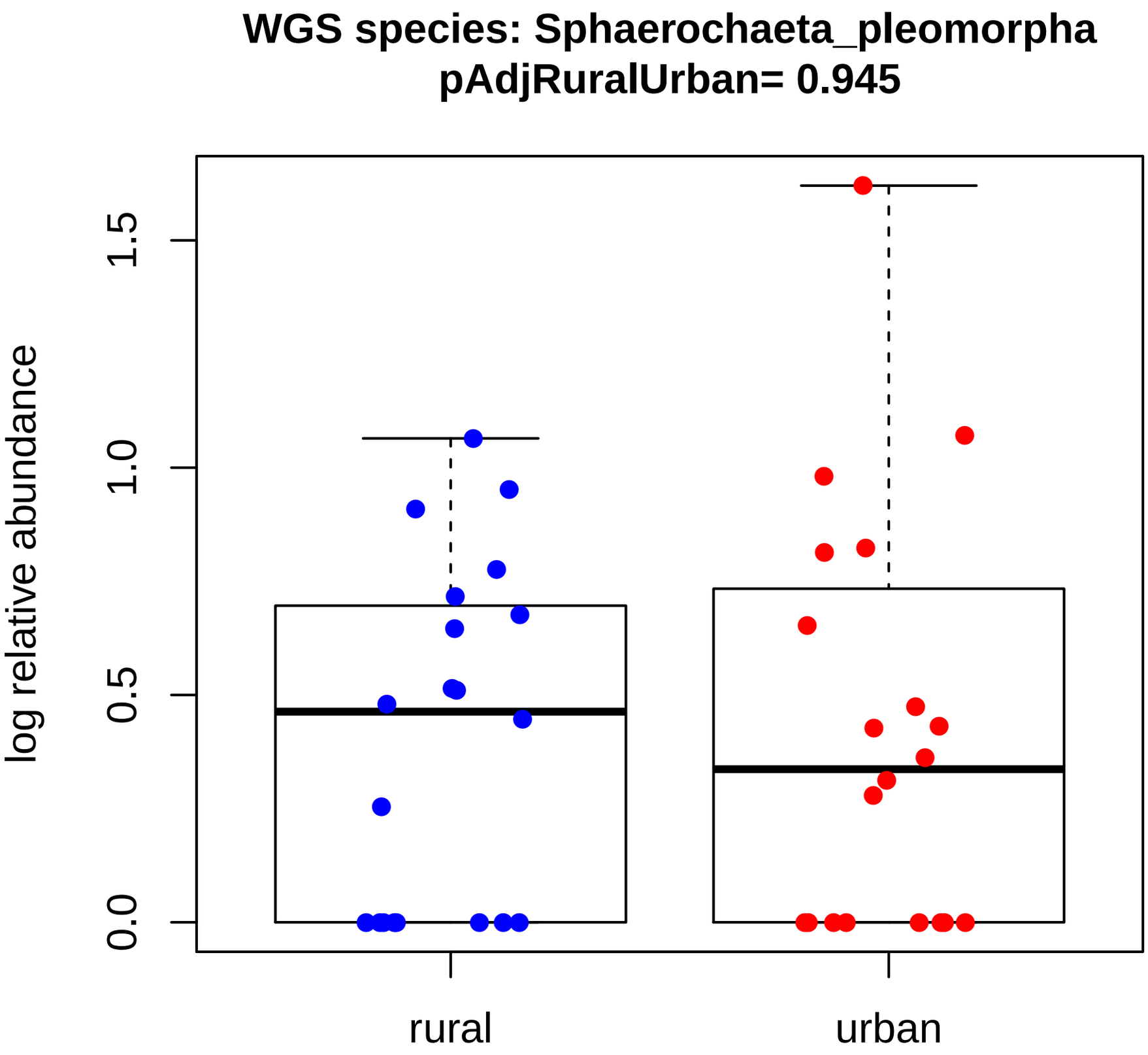

WGS species: Pantoea_ananatis
pAdjRuralUrban= 0.943
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

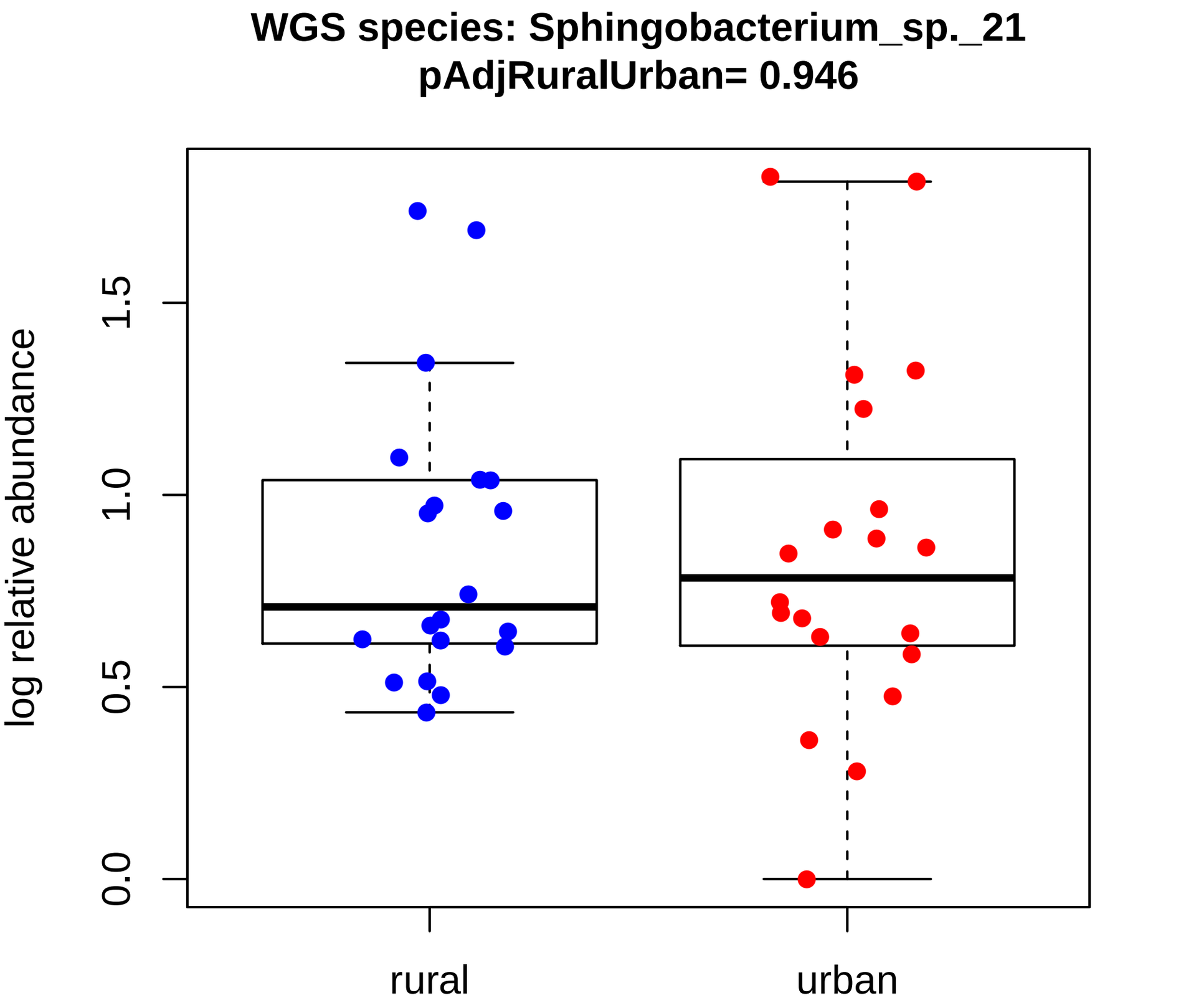

WGS species: Nitrosomonas_eutropha
pAdjRuralUrban= 0.943
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

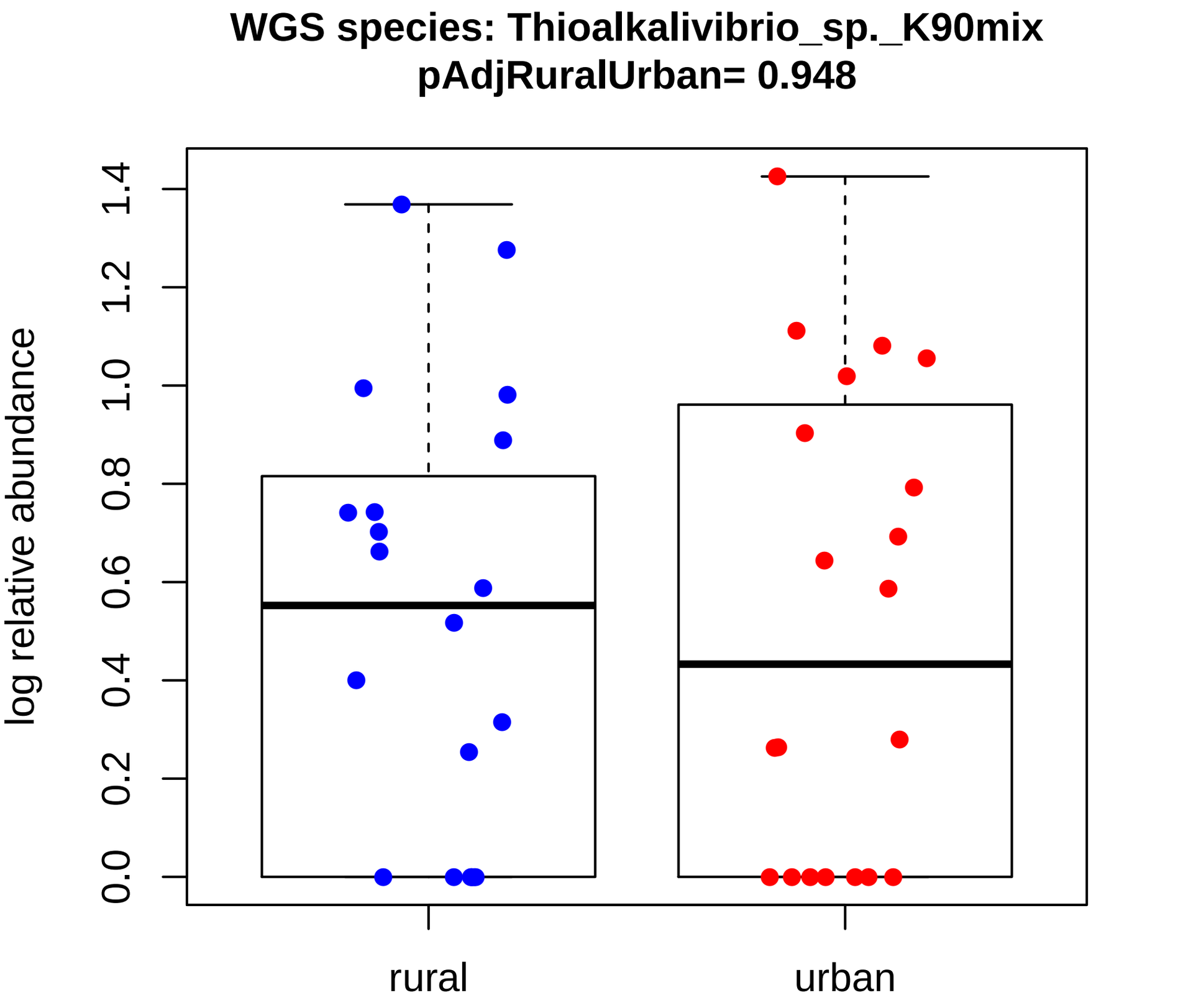

WGS species: Gluconobacter_oxydans
pAdjRuralUrban= 0.943
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

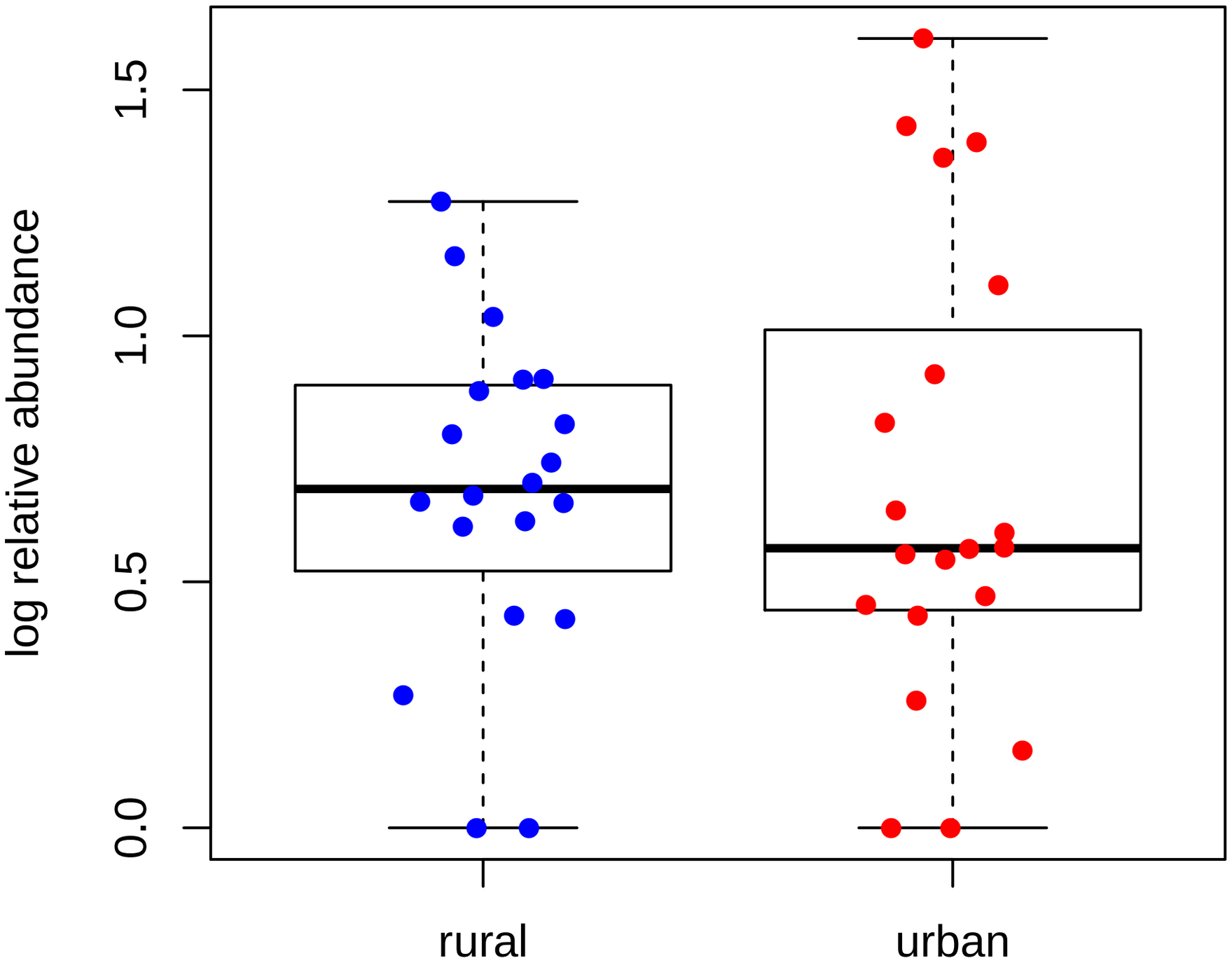

WGS species: Neisseria_lactamica
pAdjRuralUrban= 0.944
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

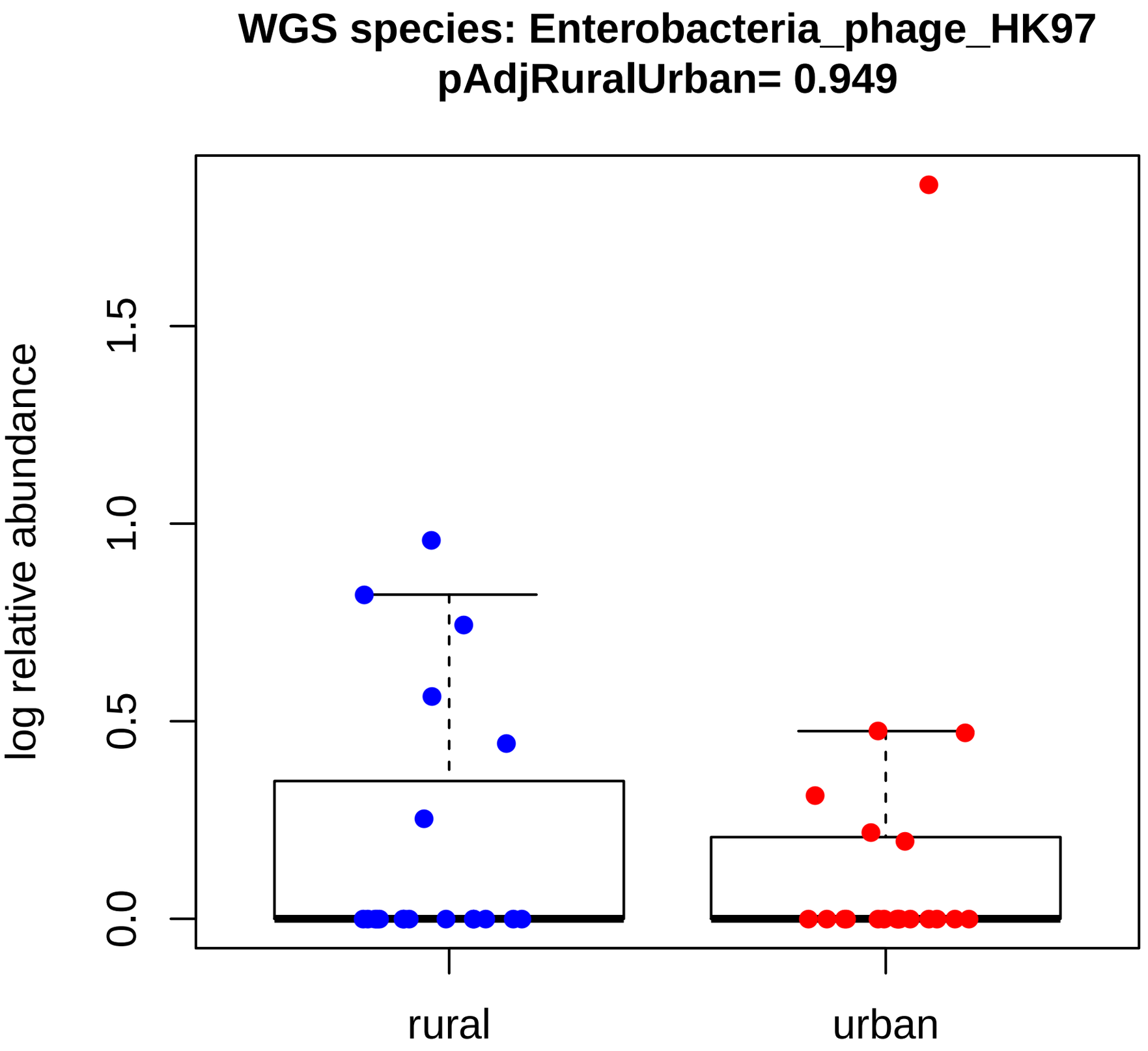

WGS species: Streptomyces_avermitilis
pAdjRuralUrban= 0.945
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

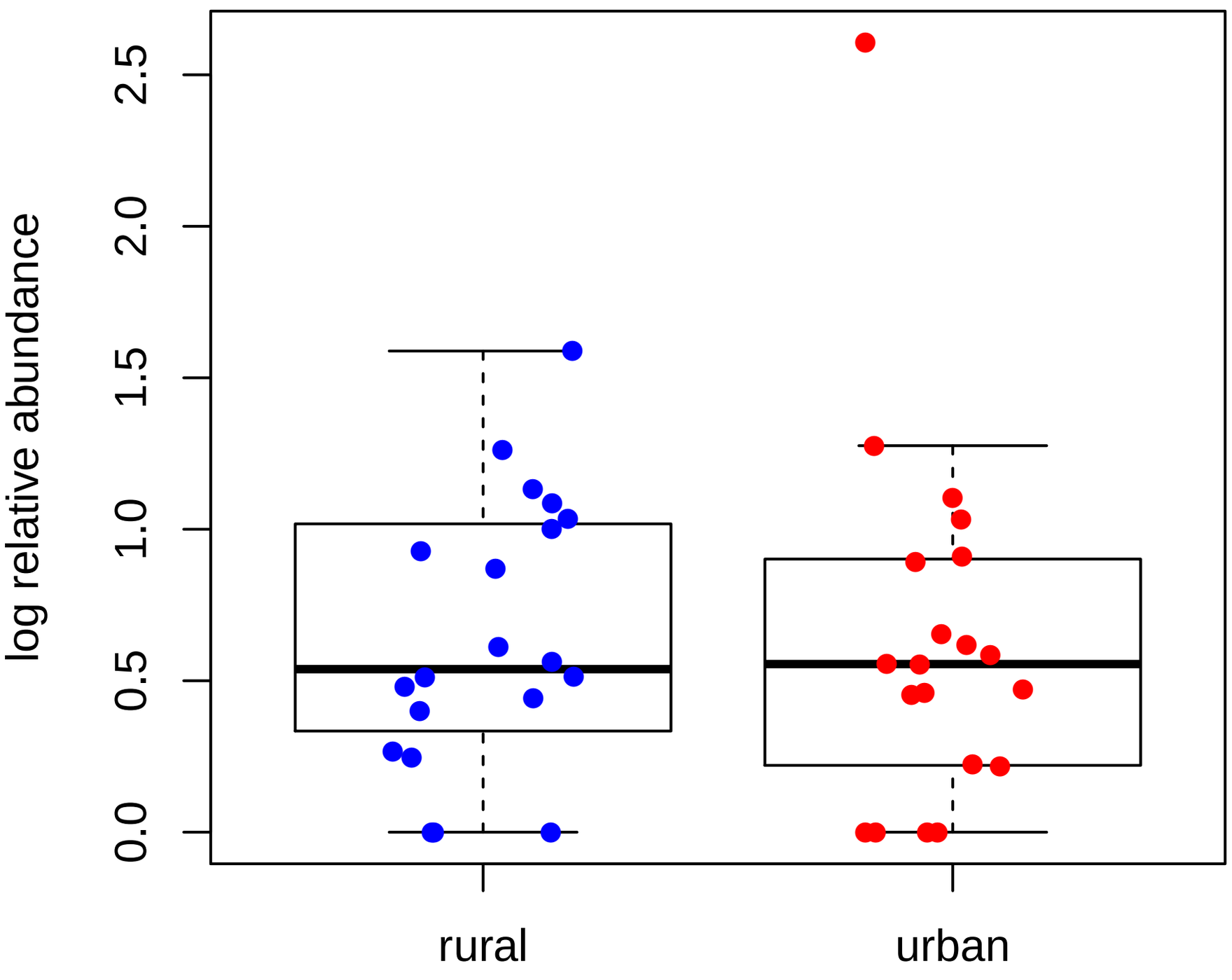

WGS species: Sphaerochaeta_pleomorpha
pAdjRuralUrban= 0.945
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

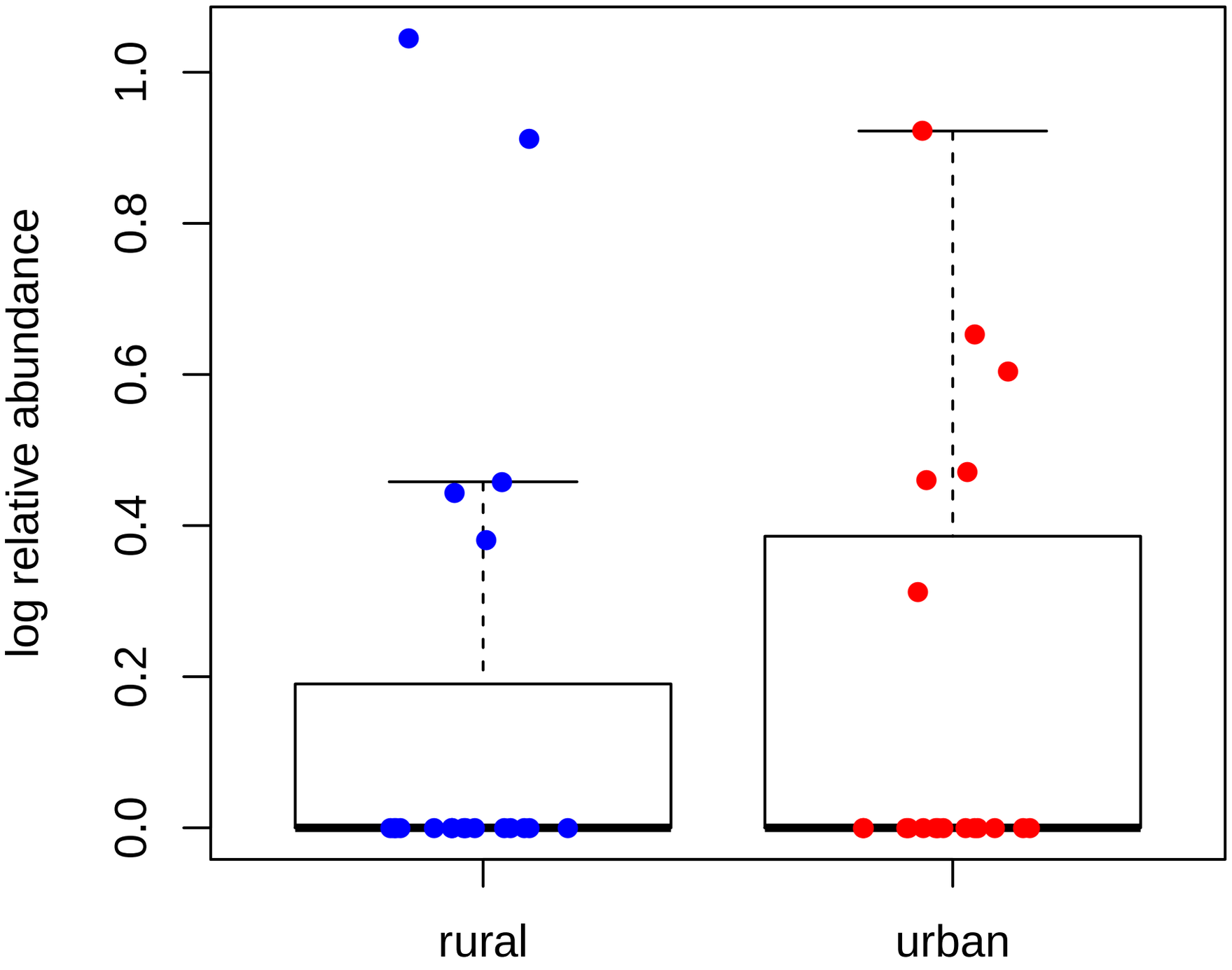

WGS species: Sphingobacterium_sp._21
pAdjRuralUrban= 0.946
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

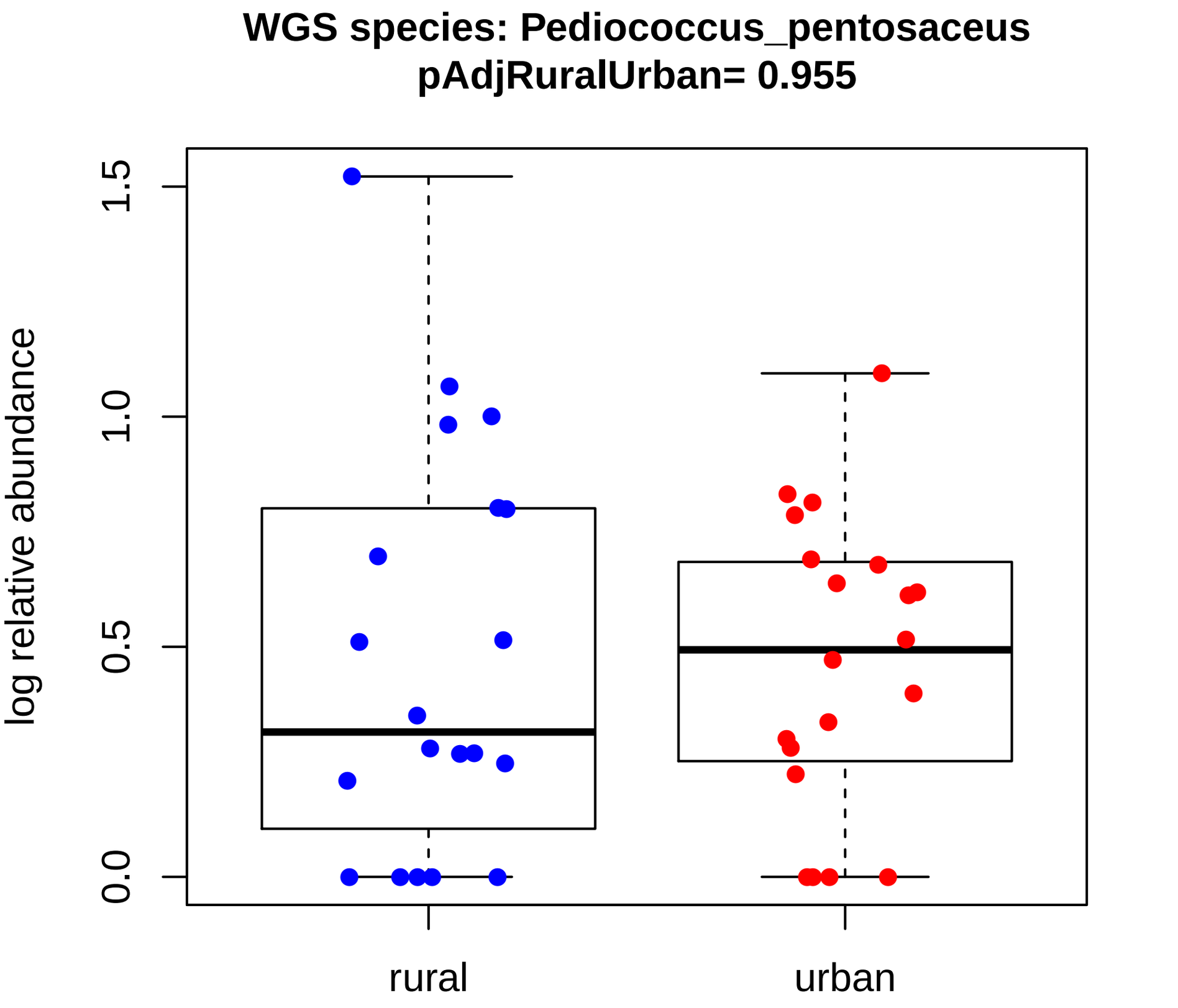

WGS species: Thioalkalivibrio_sp._K90mix
pAdjRuralUrban= 0.948
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

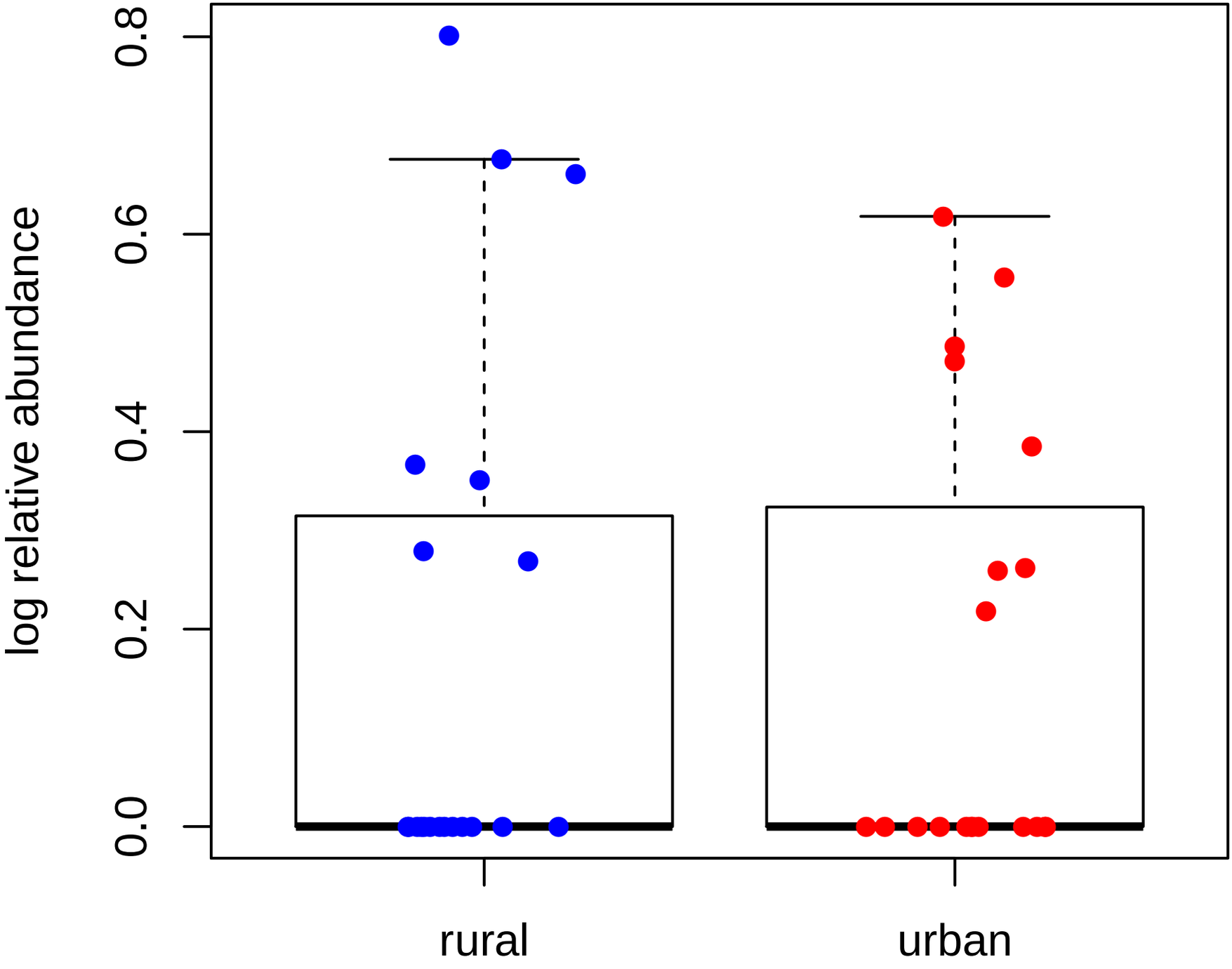

WGS species: Caulobacter_sp._K31
pAdjRuralUrban= 0.948
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

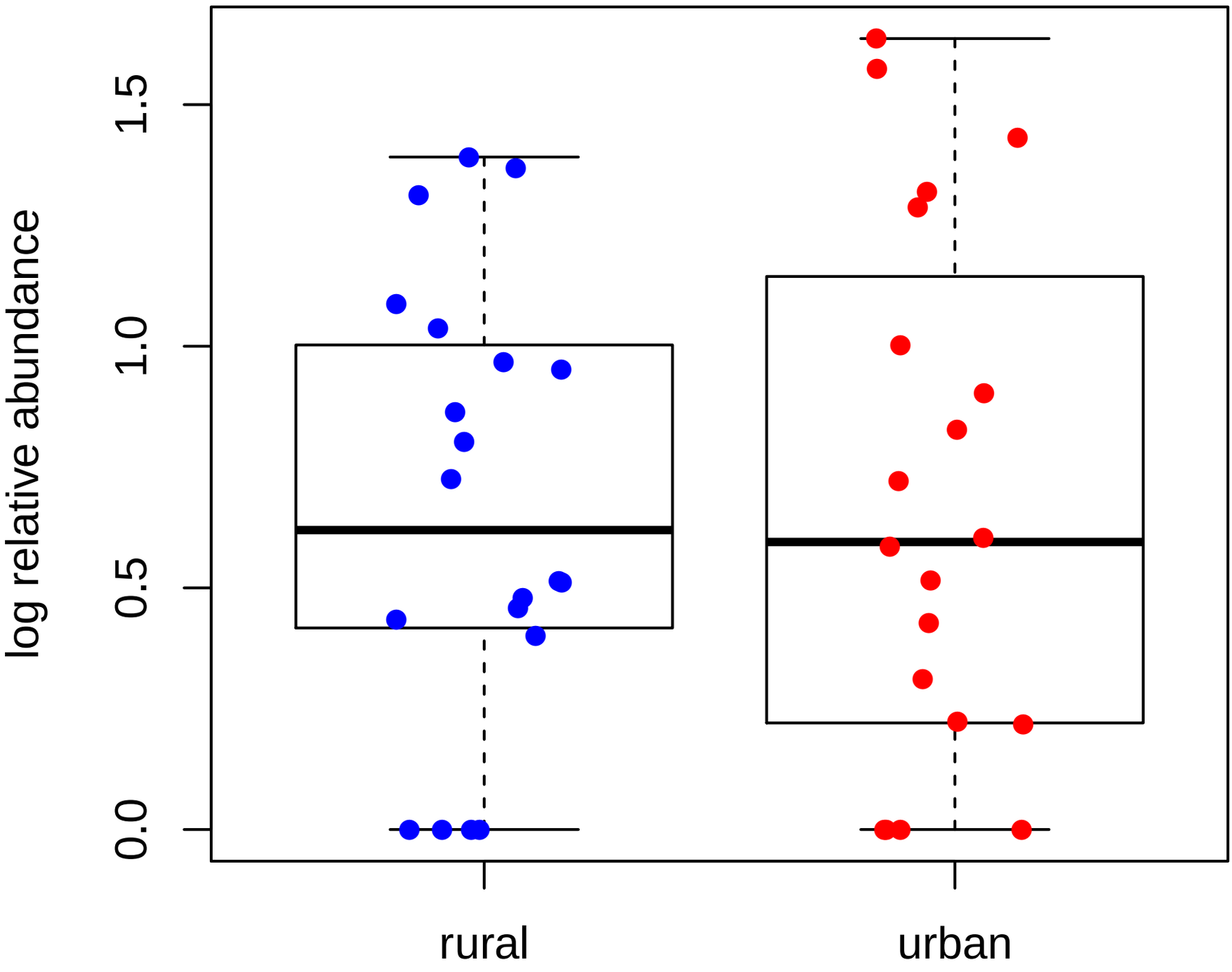

WGS species: Enterobacteria_phage_HK97
pAdjRuralUrban= 0.949
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

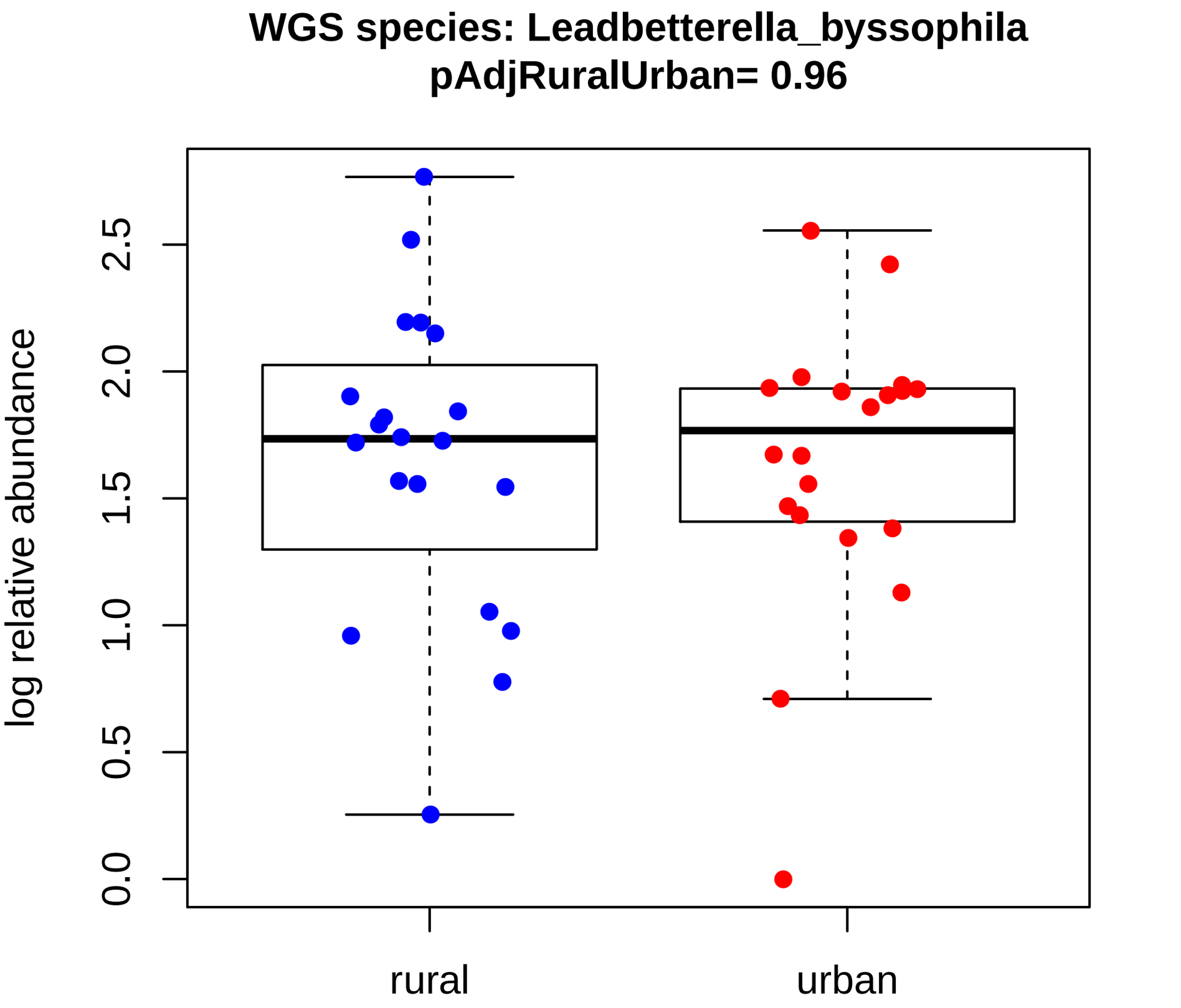

WGS species: Gardnerella_vaginalis
pAdjRuralUrban= 0.955
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

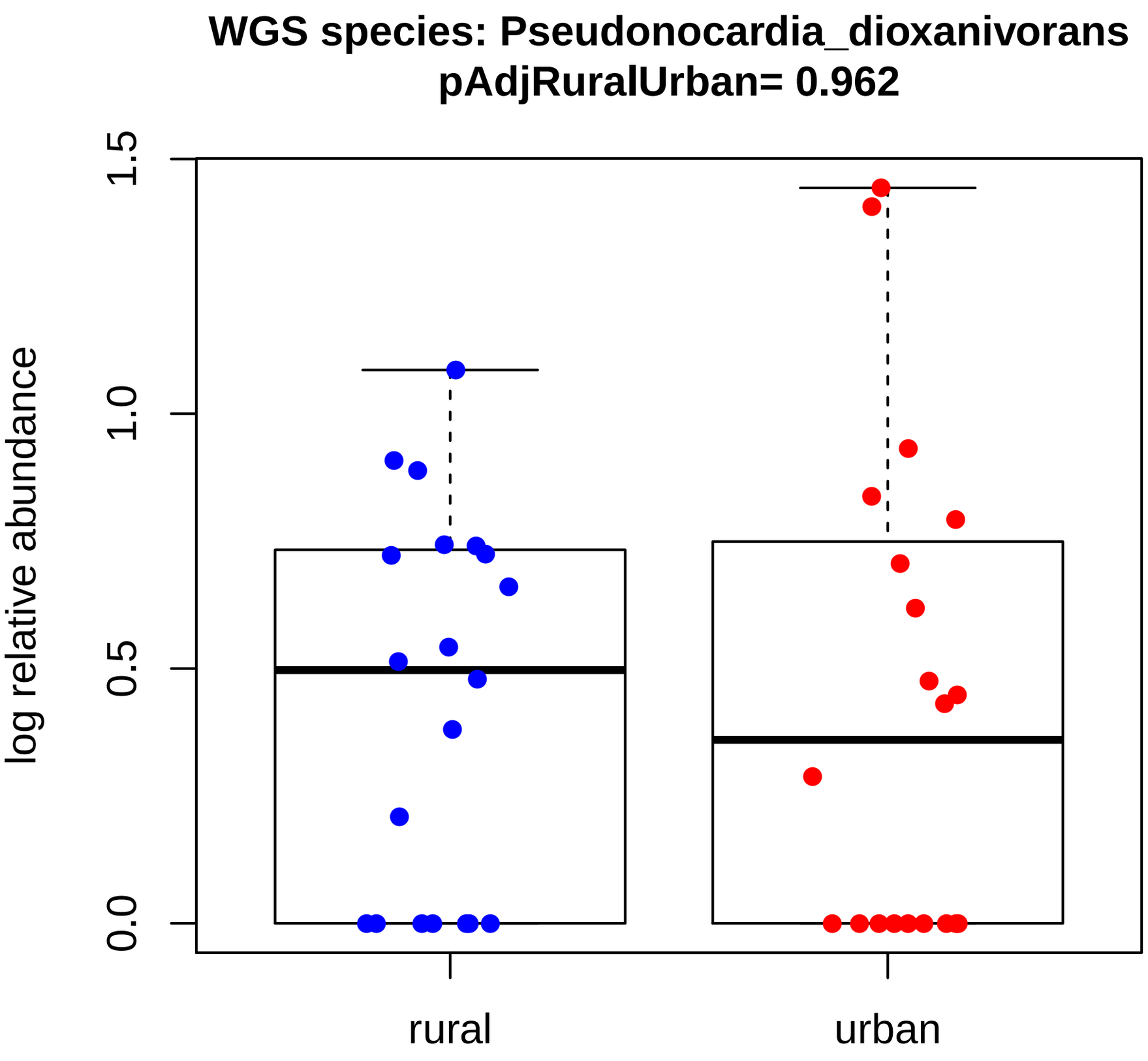

WGS species: Thiomonas_arsenitoxydans
pAdjRuralUrban= 0.955
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

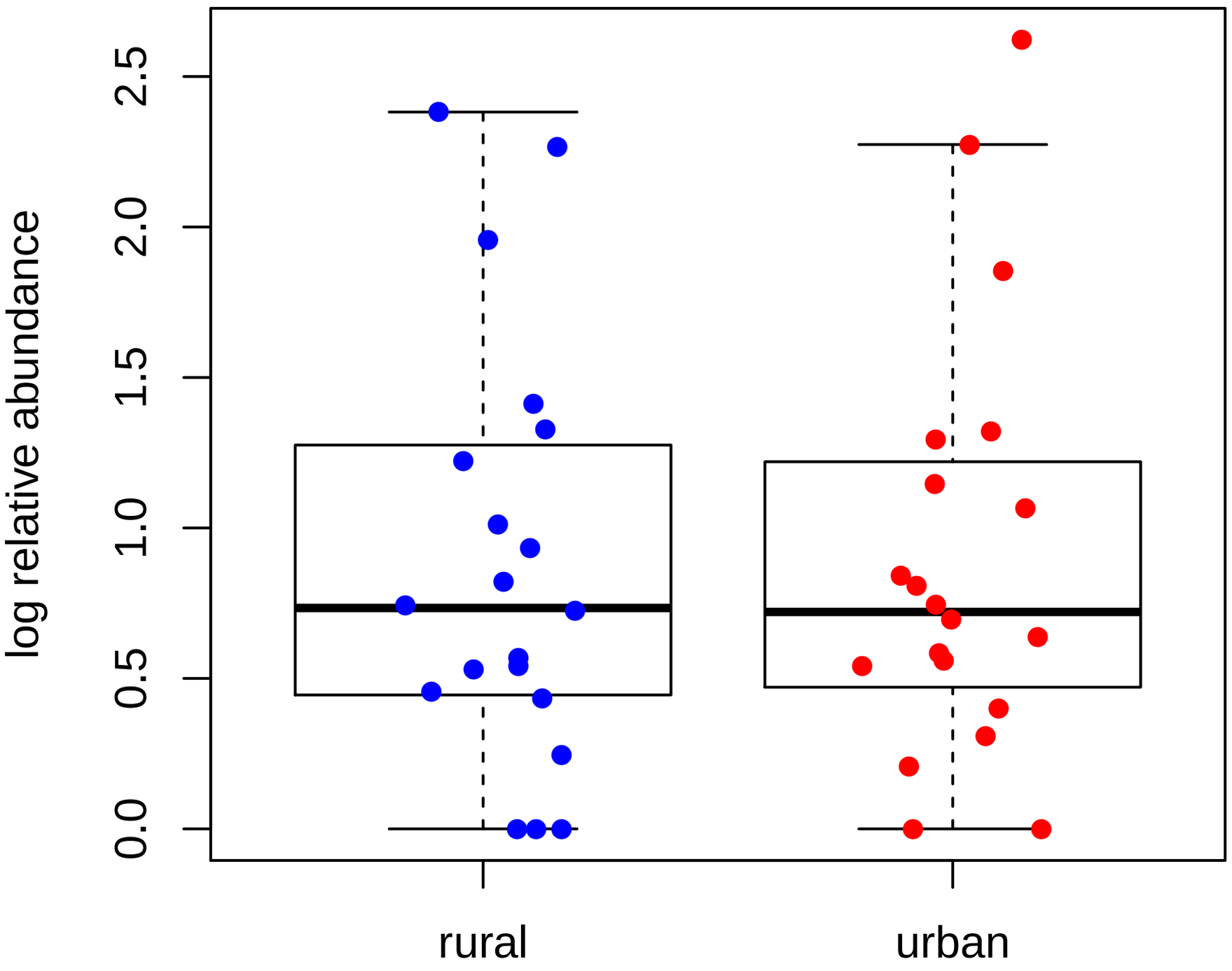

WGS species: Pediococcus_pentosaceus
pAdjRuralUrban= 0.955
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

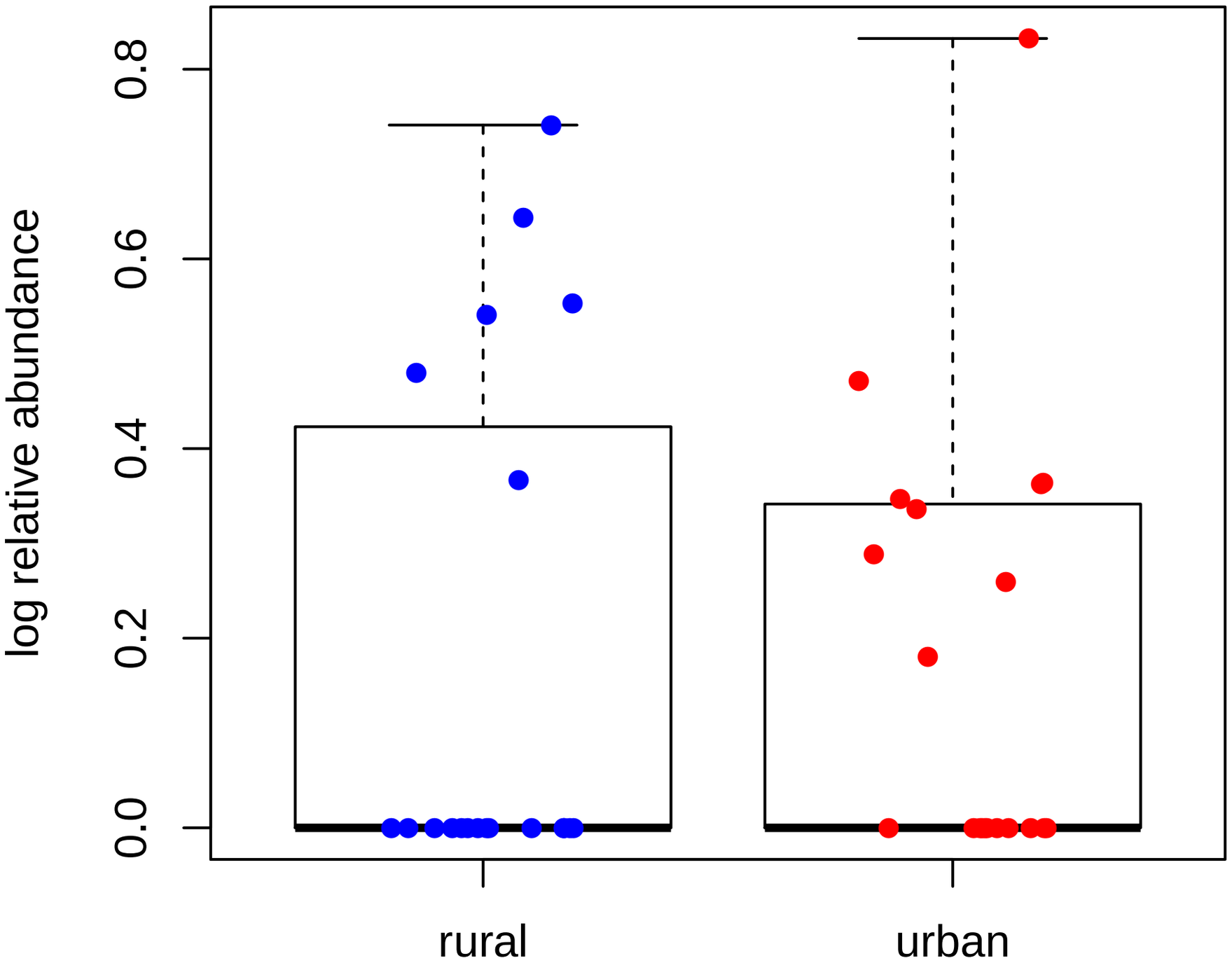

WGS species: Shewanella_frigidimarina
pAdjRuralUrban= 0.955
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

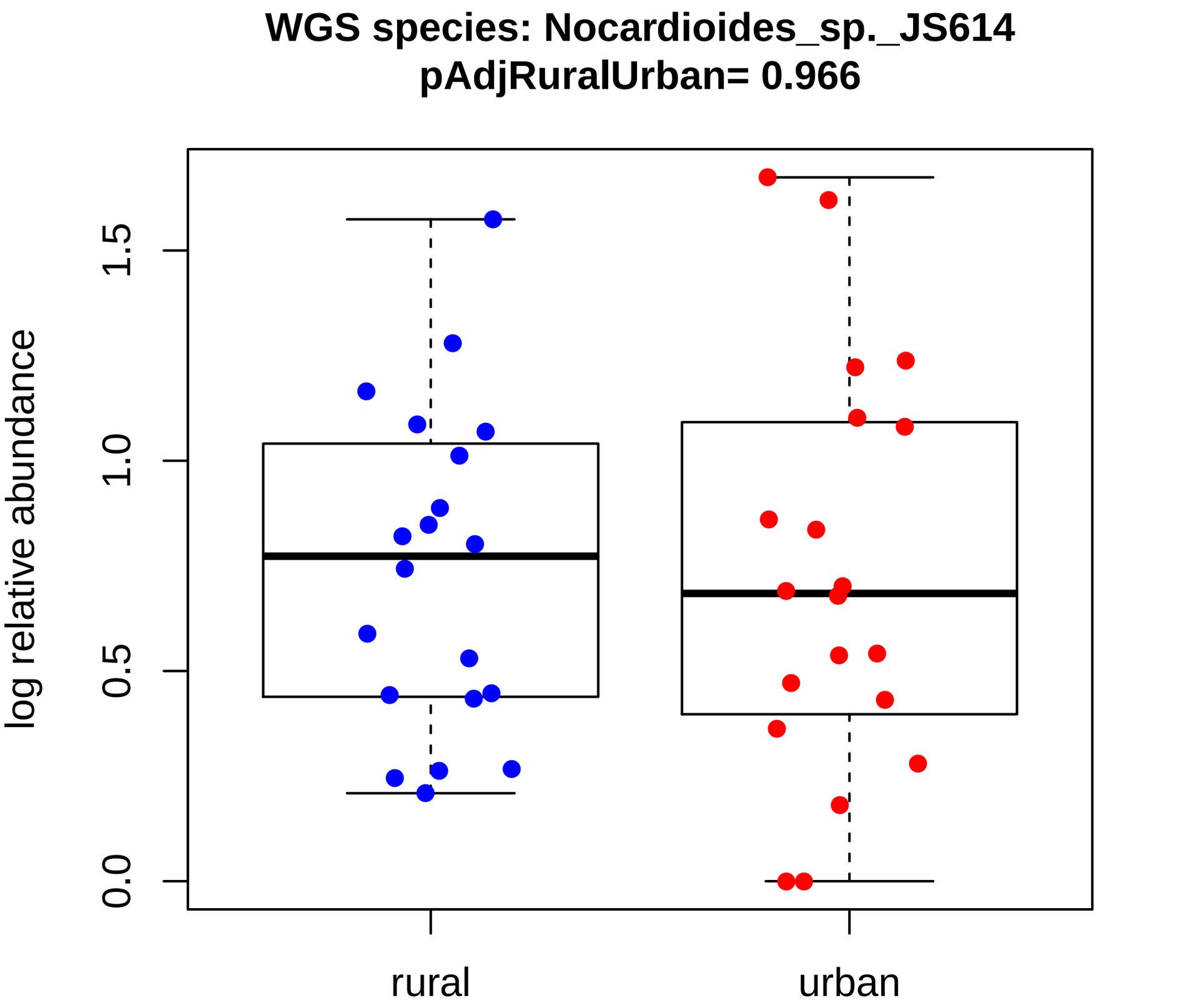

WGS species: Psychroflexus_torquis
pAdjRuralUrban= 0.959
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

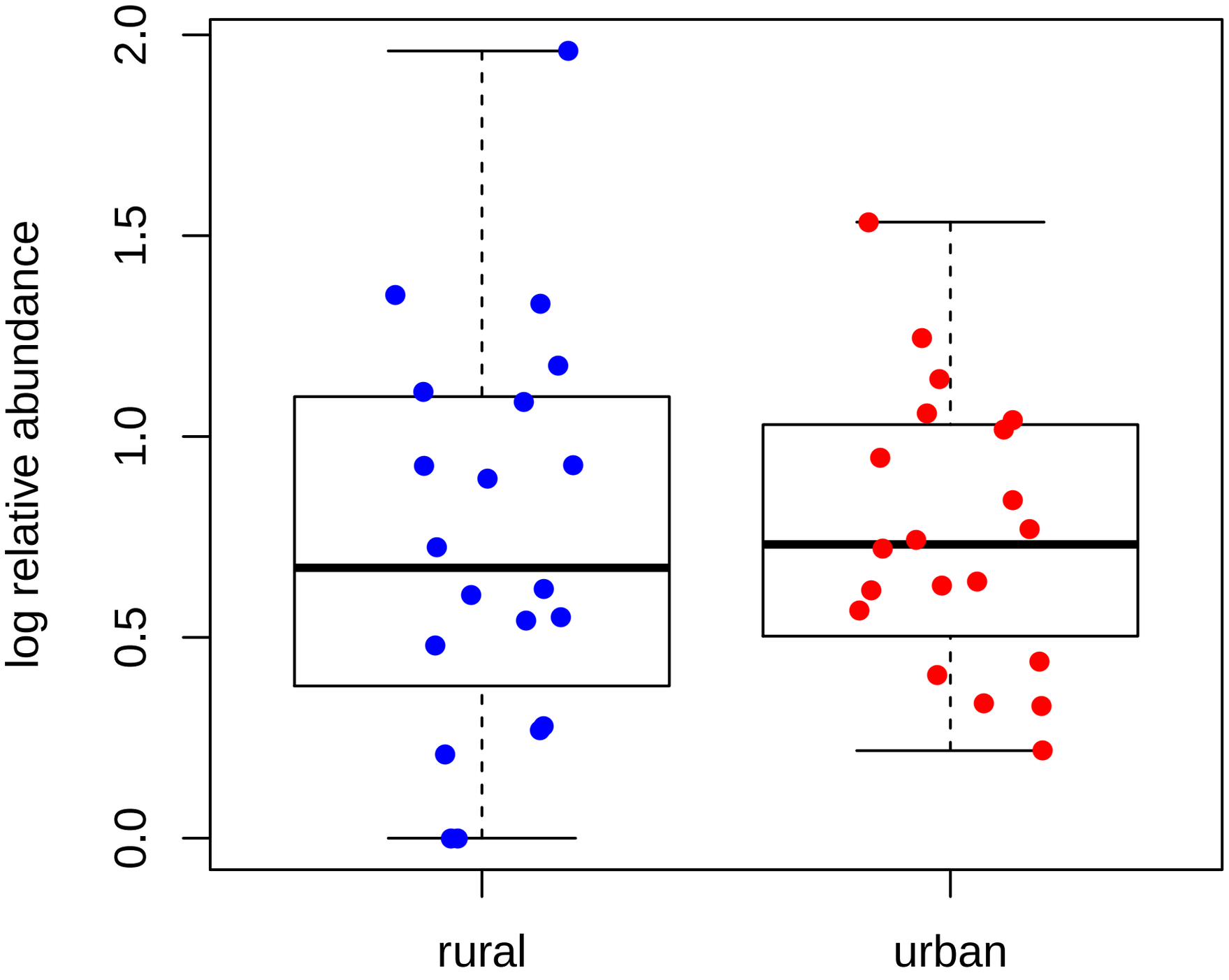

WGS species: Leadbetterella_byssophila
pAdjRuralUrban= 0.96
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

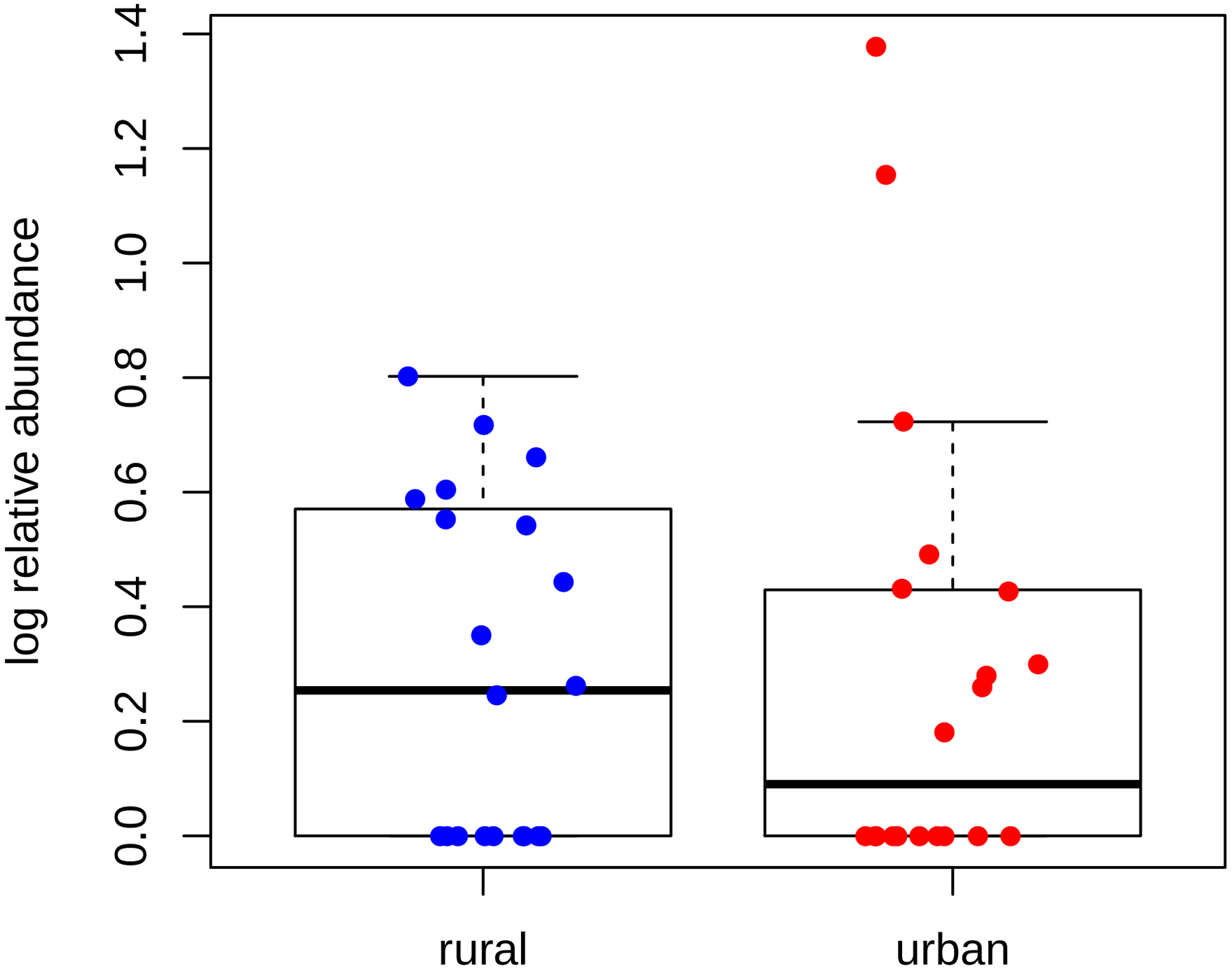

WGS species: Pseudonocardia_dioxanivorans
pAdjRuralUrban= 0.962
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

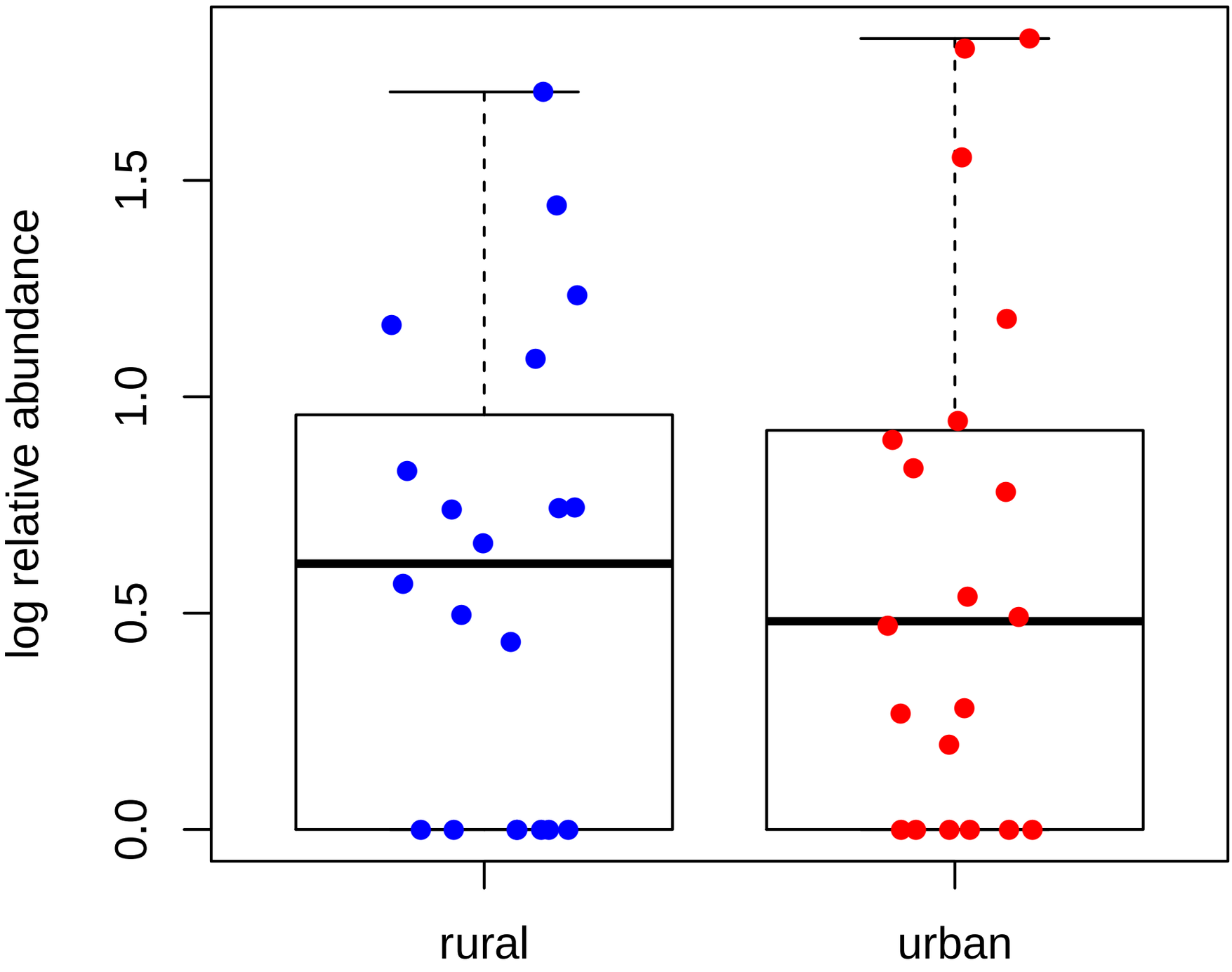

WGS species: Shimwellia_blattae
pAdjRuralUrban= 0.966
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

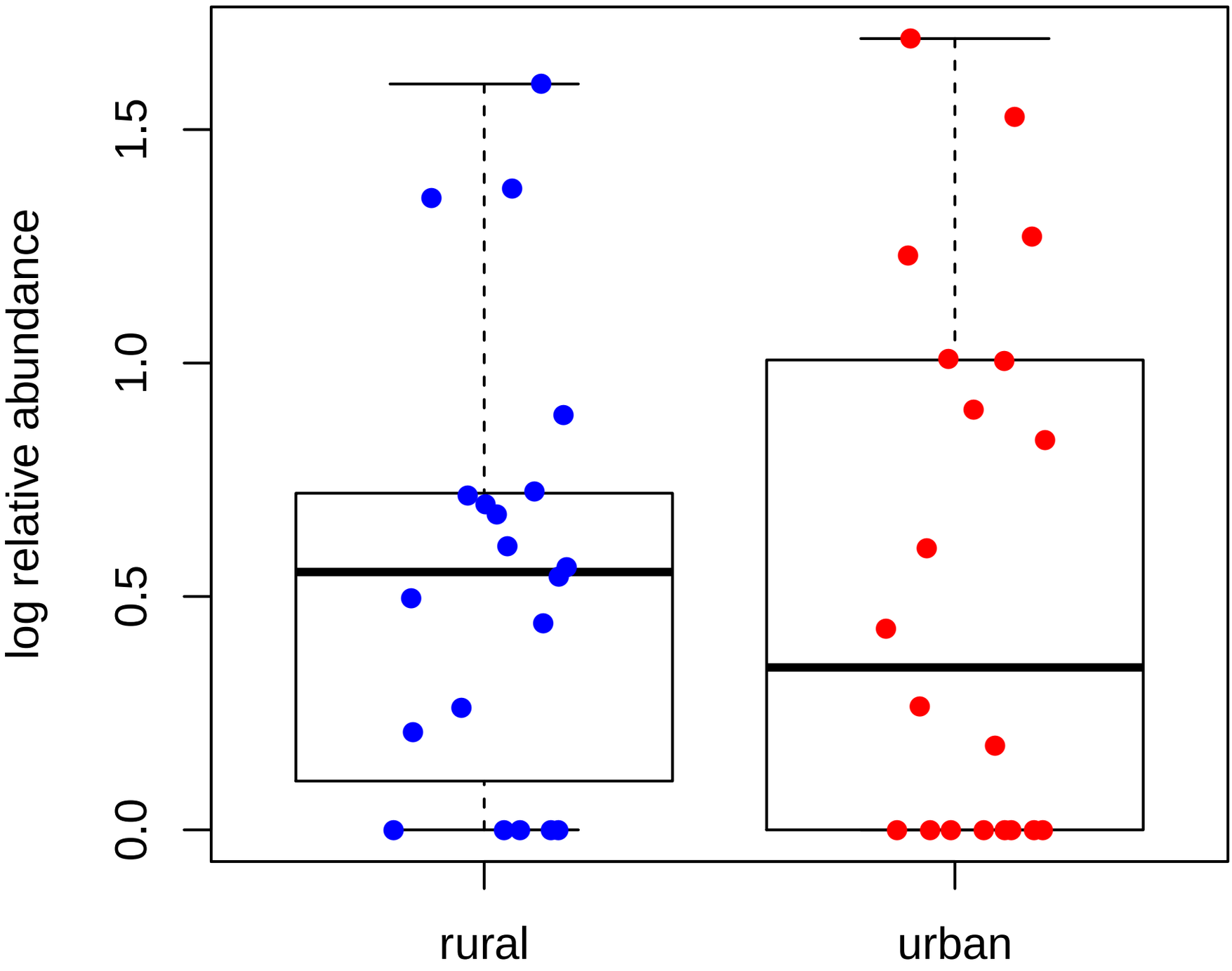

WGS species: Helicobacter_felis
pAdjRuralUrban= 0.966
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

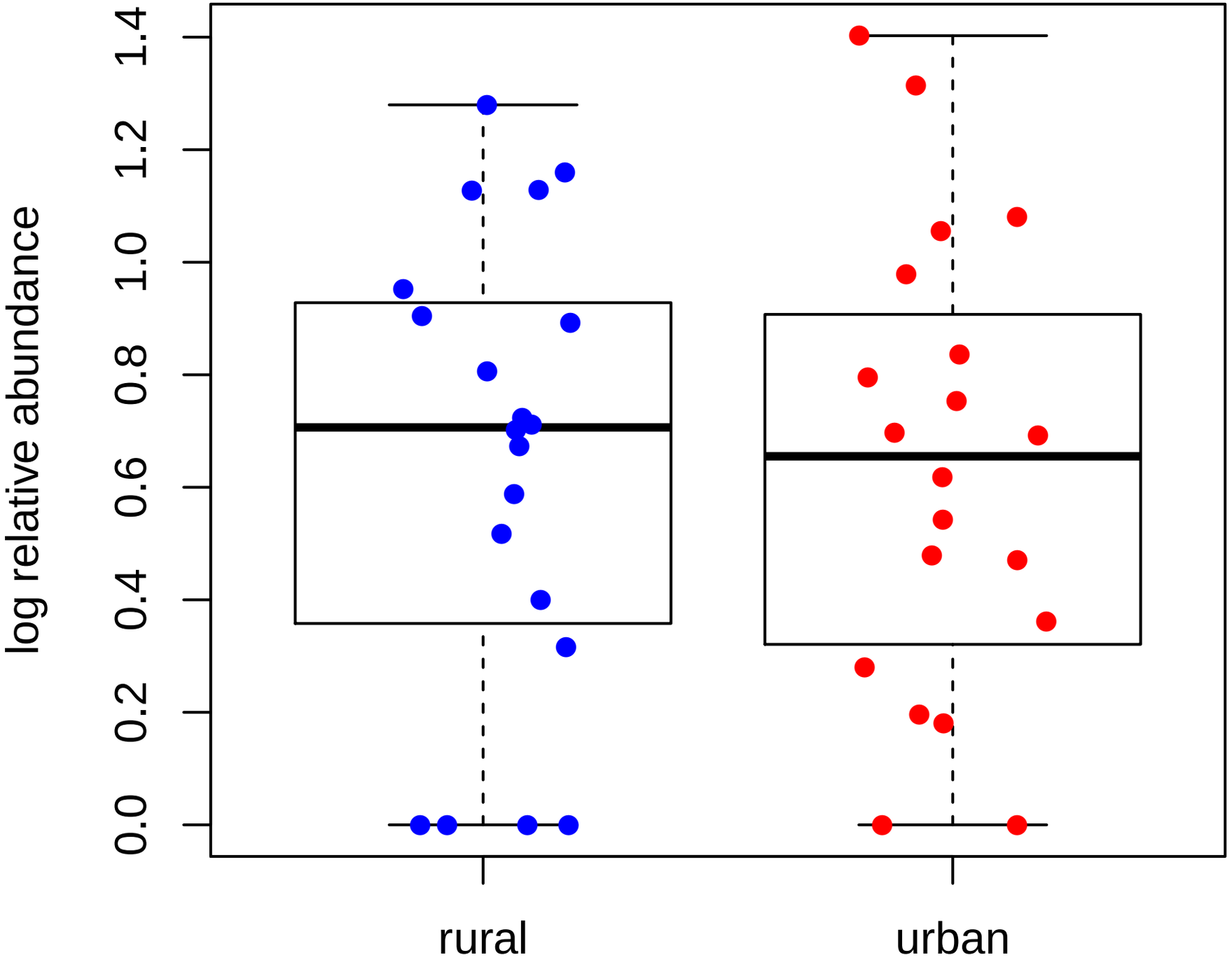

WGS species: Nocardioides_sp._JS614
pAdjRuralUrban= 0.966
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

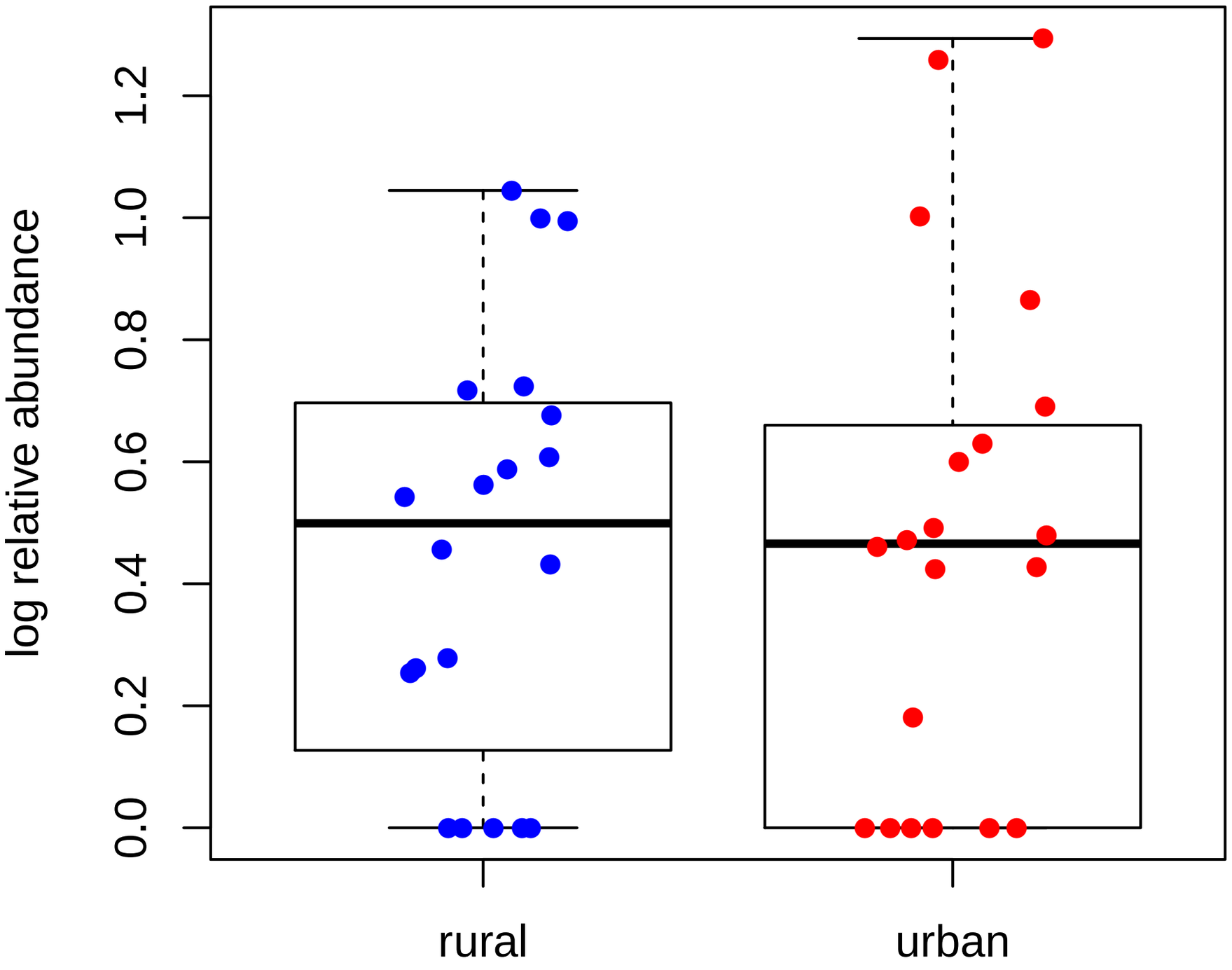

WGS species: Arthrobacter_arilaitensis
pAdjRuralUrban= 0.967
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

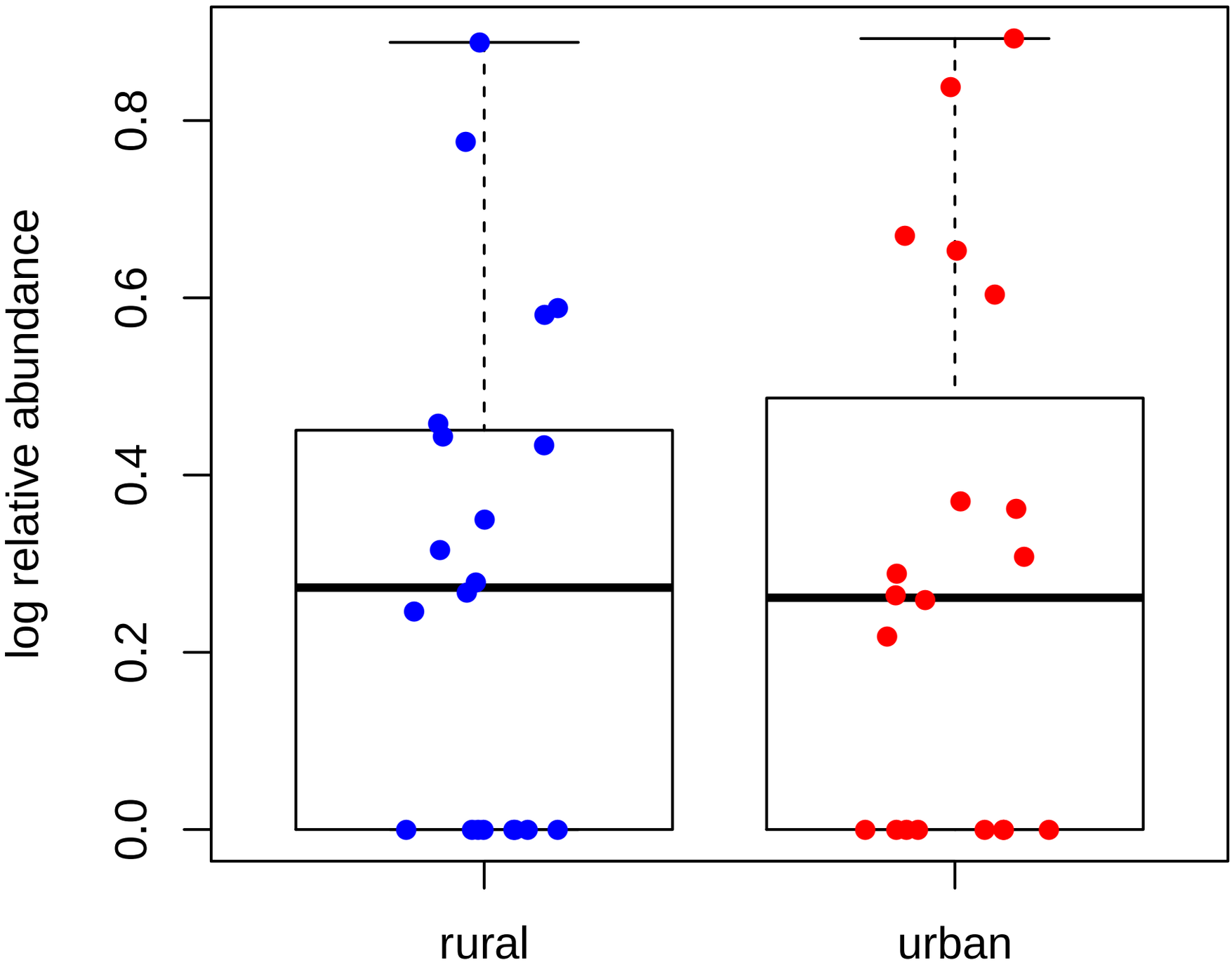

WGS species: Methanococcus_voltae
pAdjRuralUrban= 0.971
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

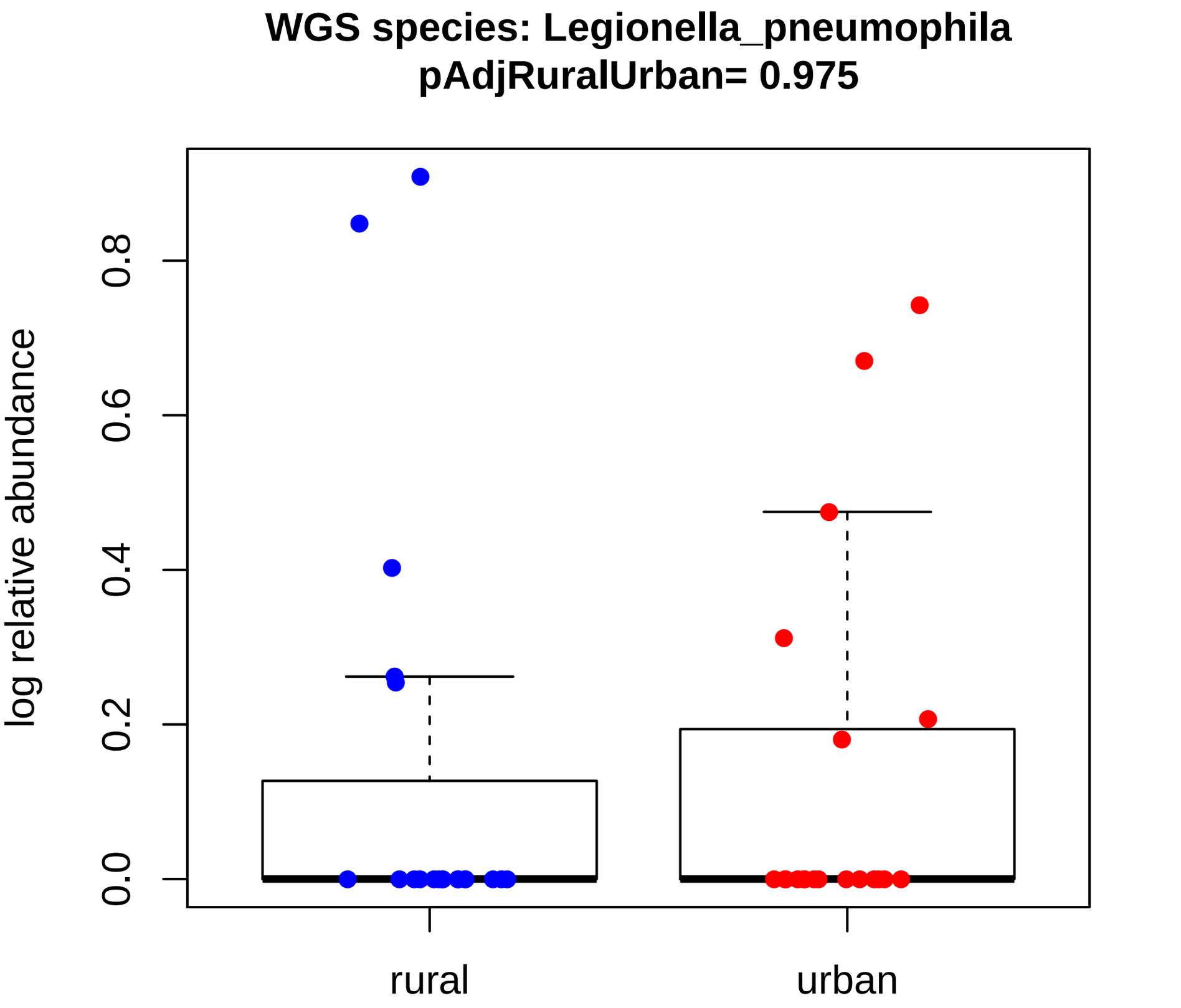

WGS species: Geobacter_sp._M21
pAdjRuralUrban= 0.974
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

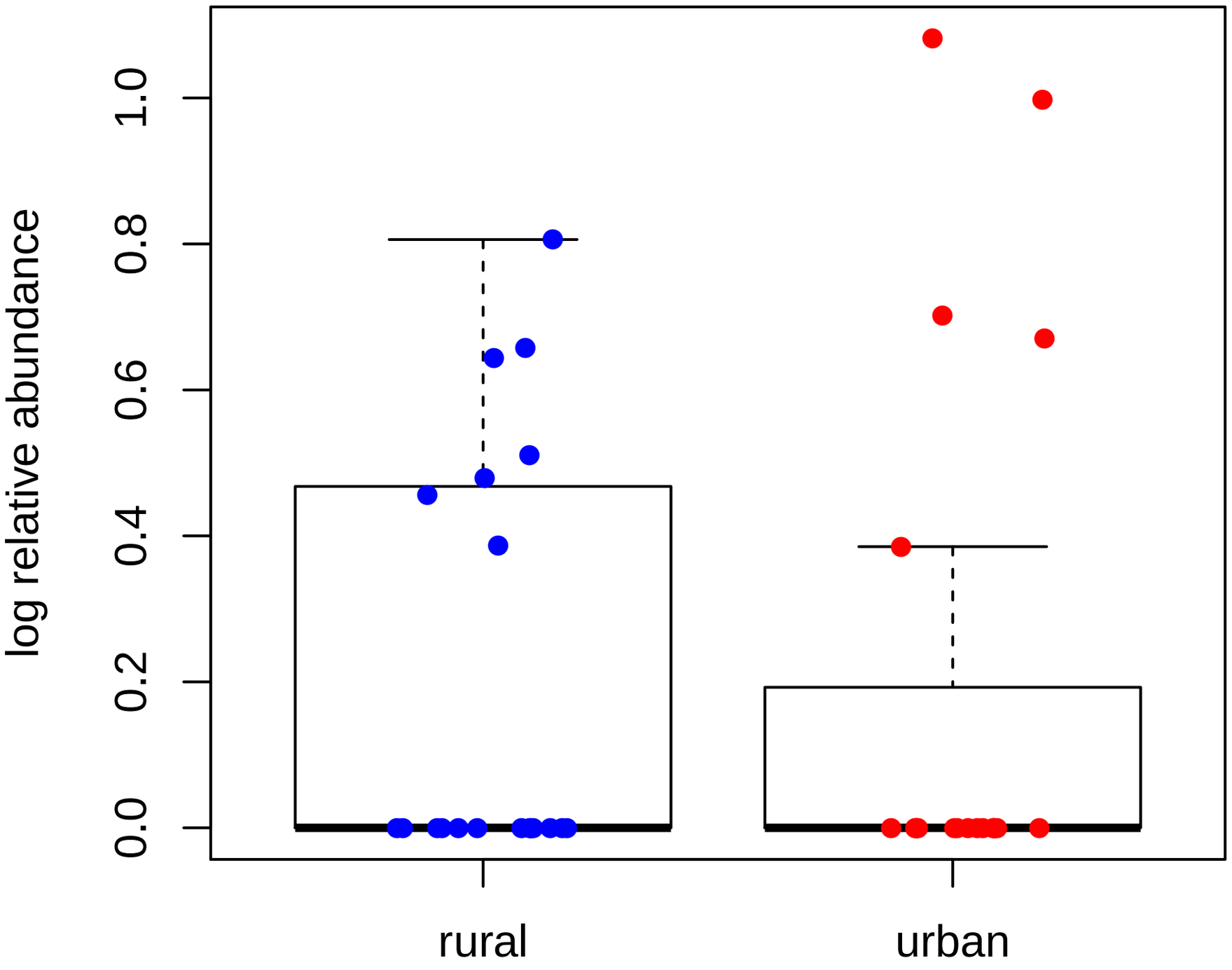

WGS species: Brachyspira_murdochii
pAdjRuralUrban= 0.974
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

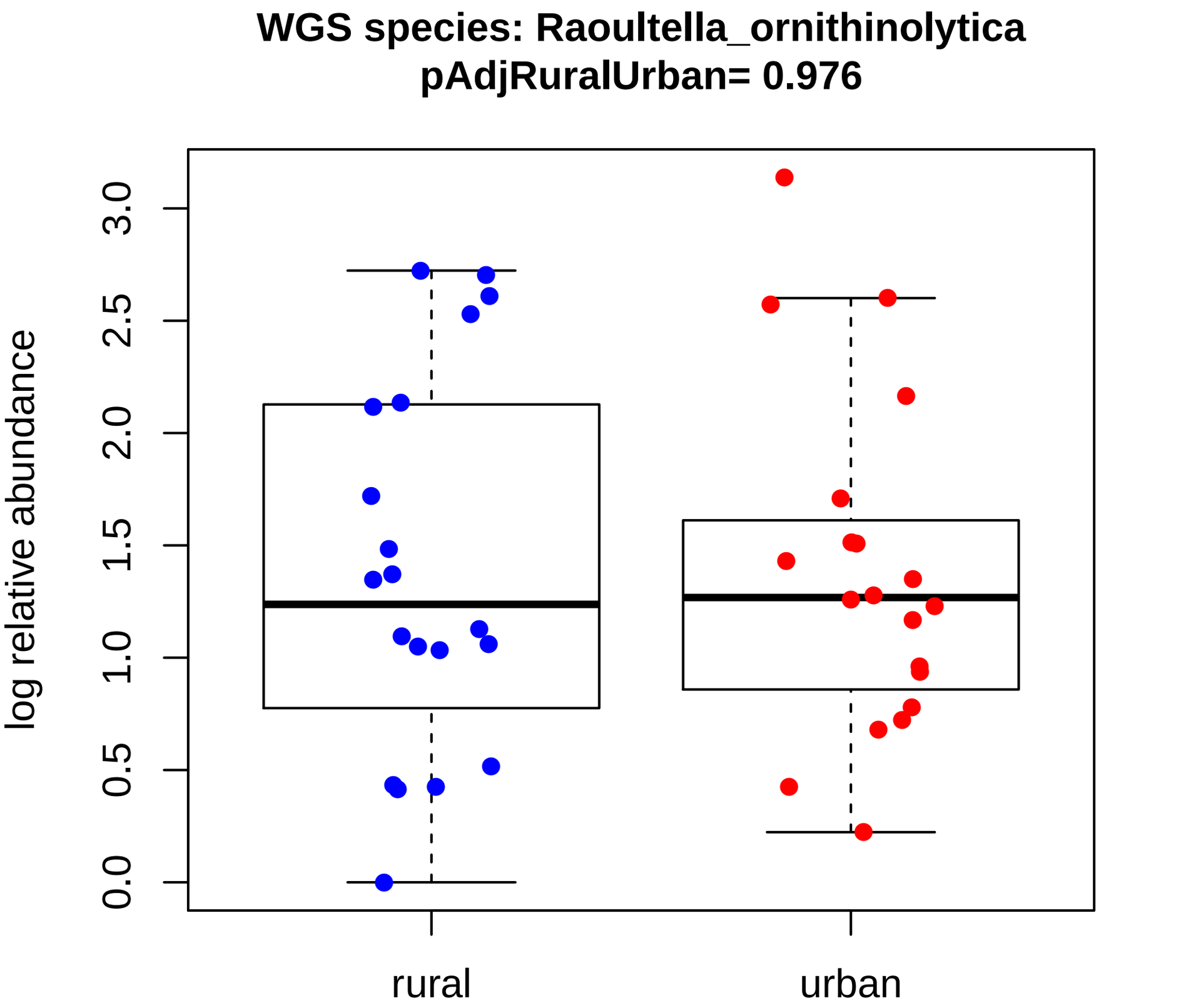

WGS species: Geobacter_sulfurreducens
pAdjRuralUrban= 0.974
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban

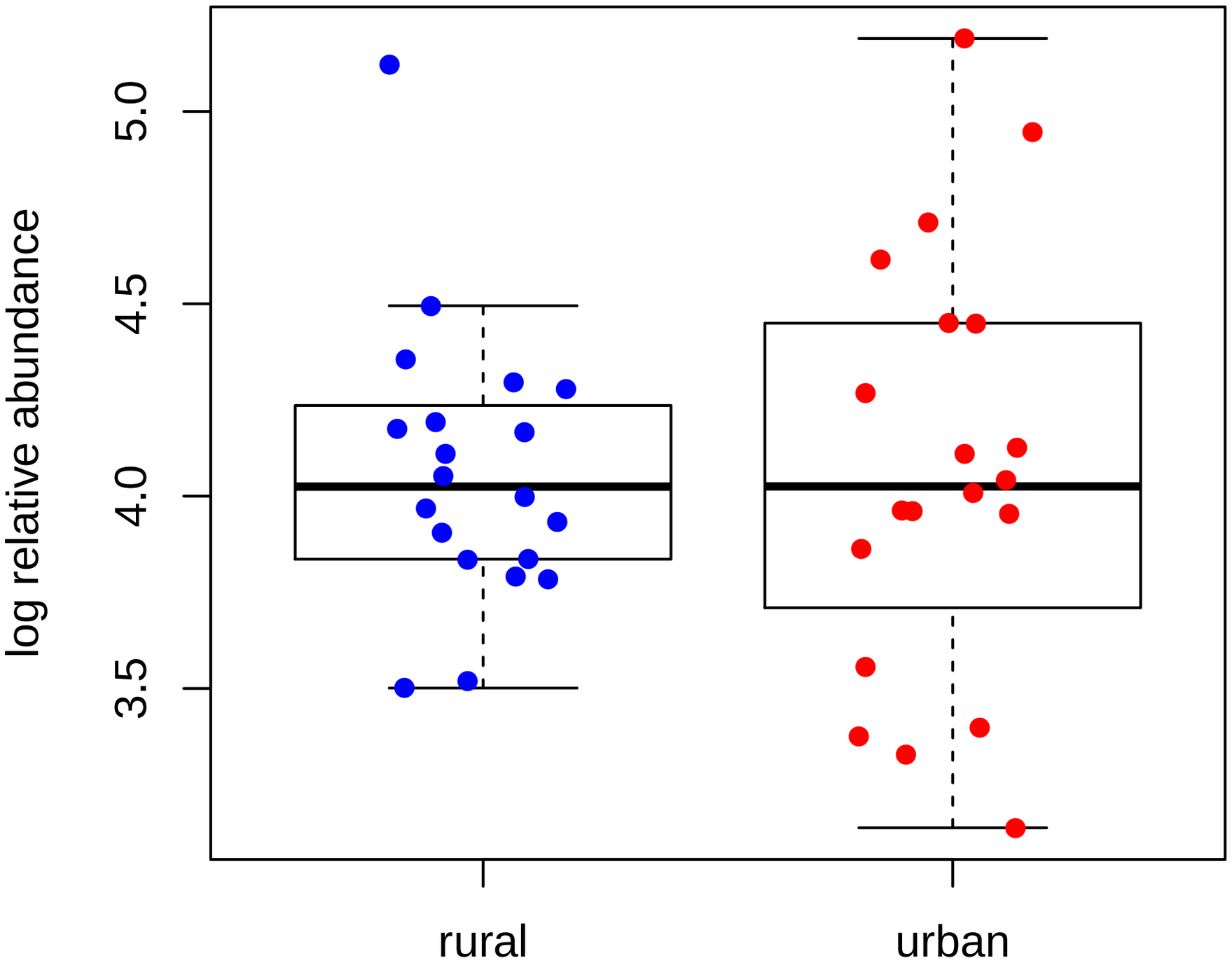

WGS species: Thermus_sp._CCB_US3_UF1
pAdjRuralUrban= 0.974
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

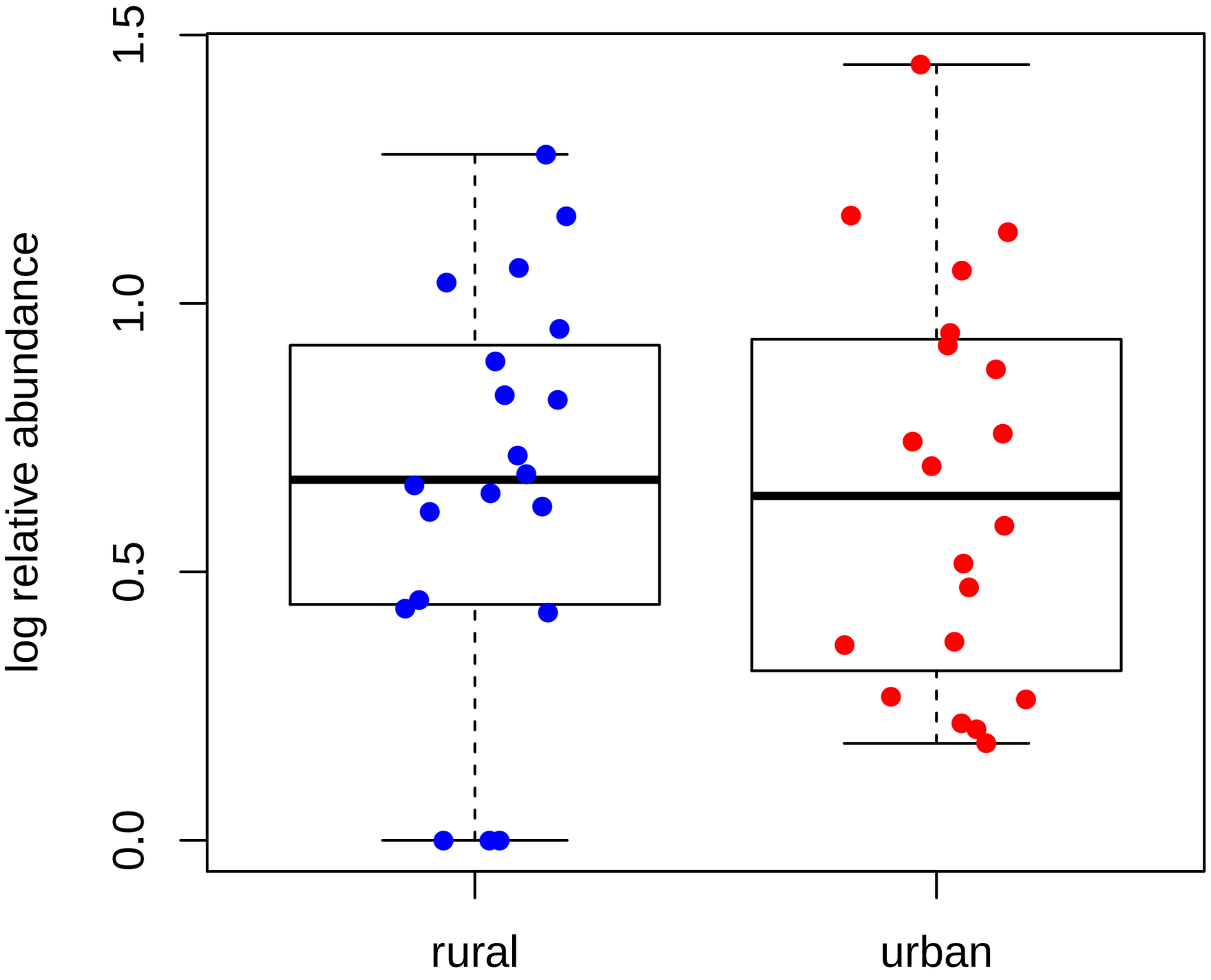

WGS species: Wolbachia_endosymbiont_of_Brugia_malay
pAdjRuralUrban= 0.975
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

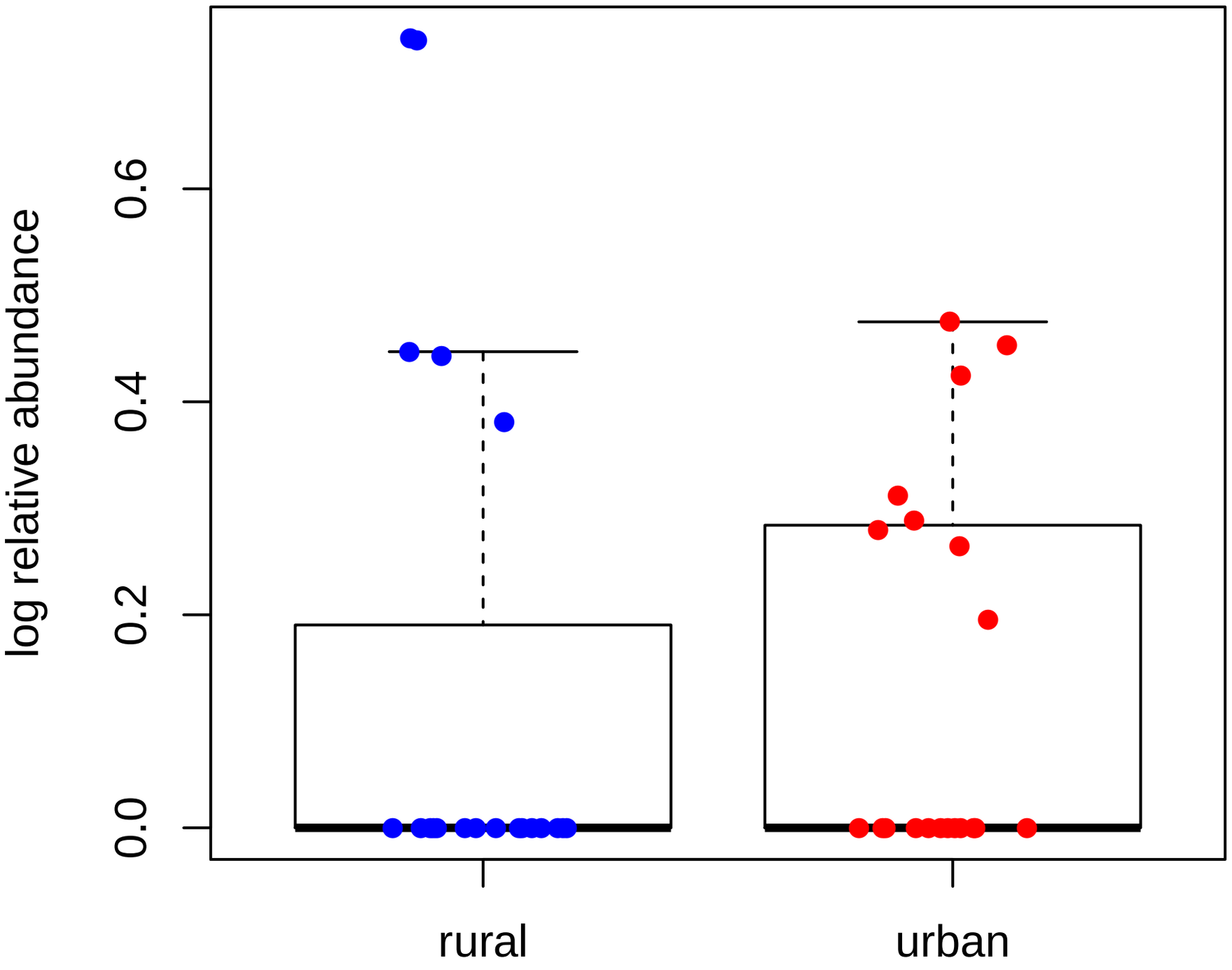

WGS species: Legionella_pneumophila
pAdjRuralUrban= 0.975
log relative abundance
0.0
0.2
0.4
0.6
0.8
rural
urban

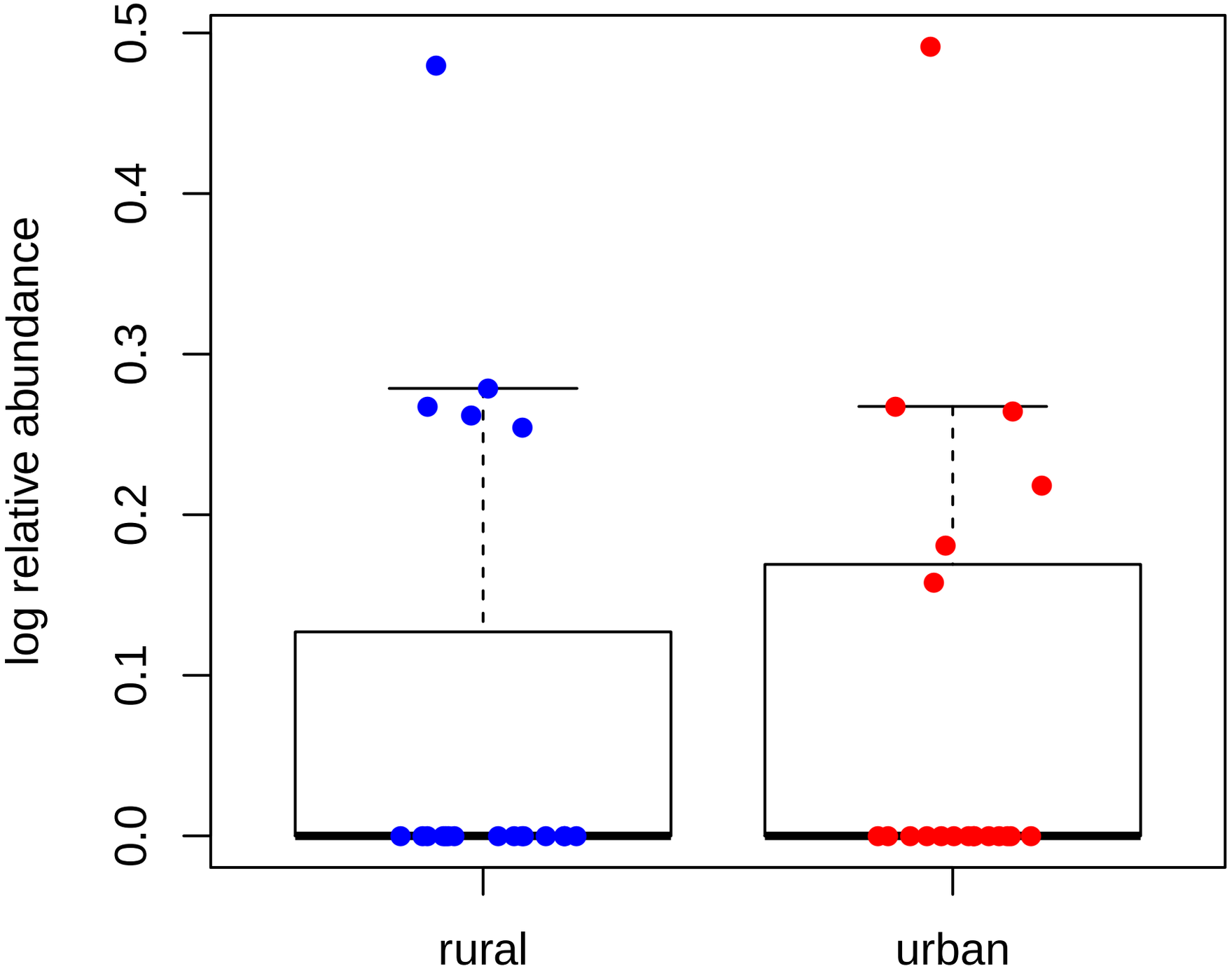

WGS species: Candidatus_Zinderia_insecticola
pAdjRuralUrban= 0.976
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban

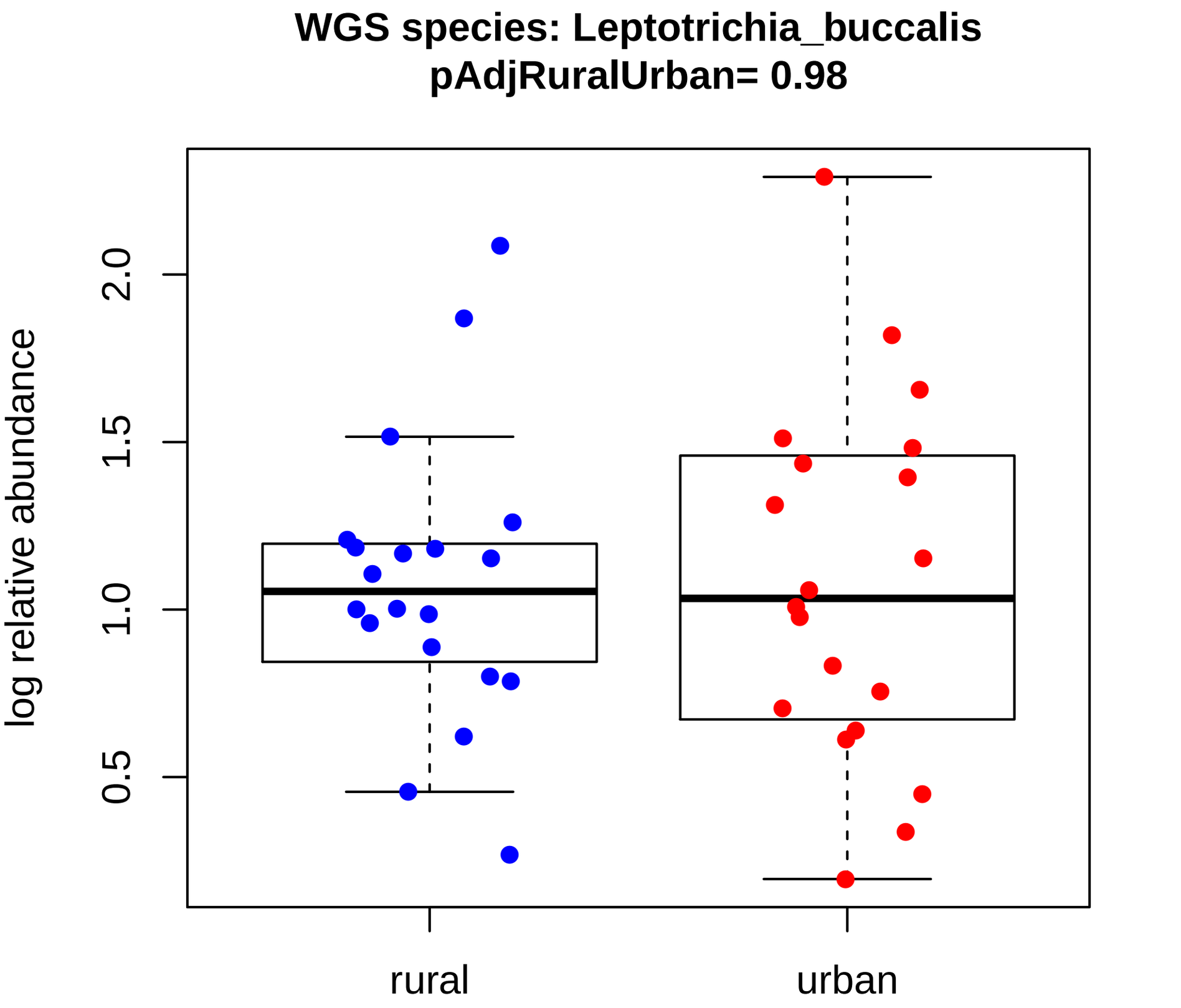

WGS species: Raoultella_ornithinolytica
pAdjRuralUrban= 0.976
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban

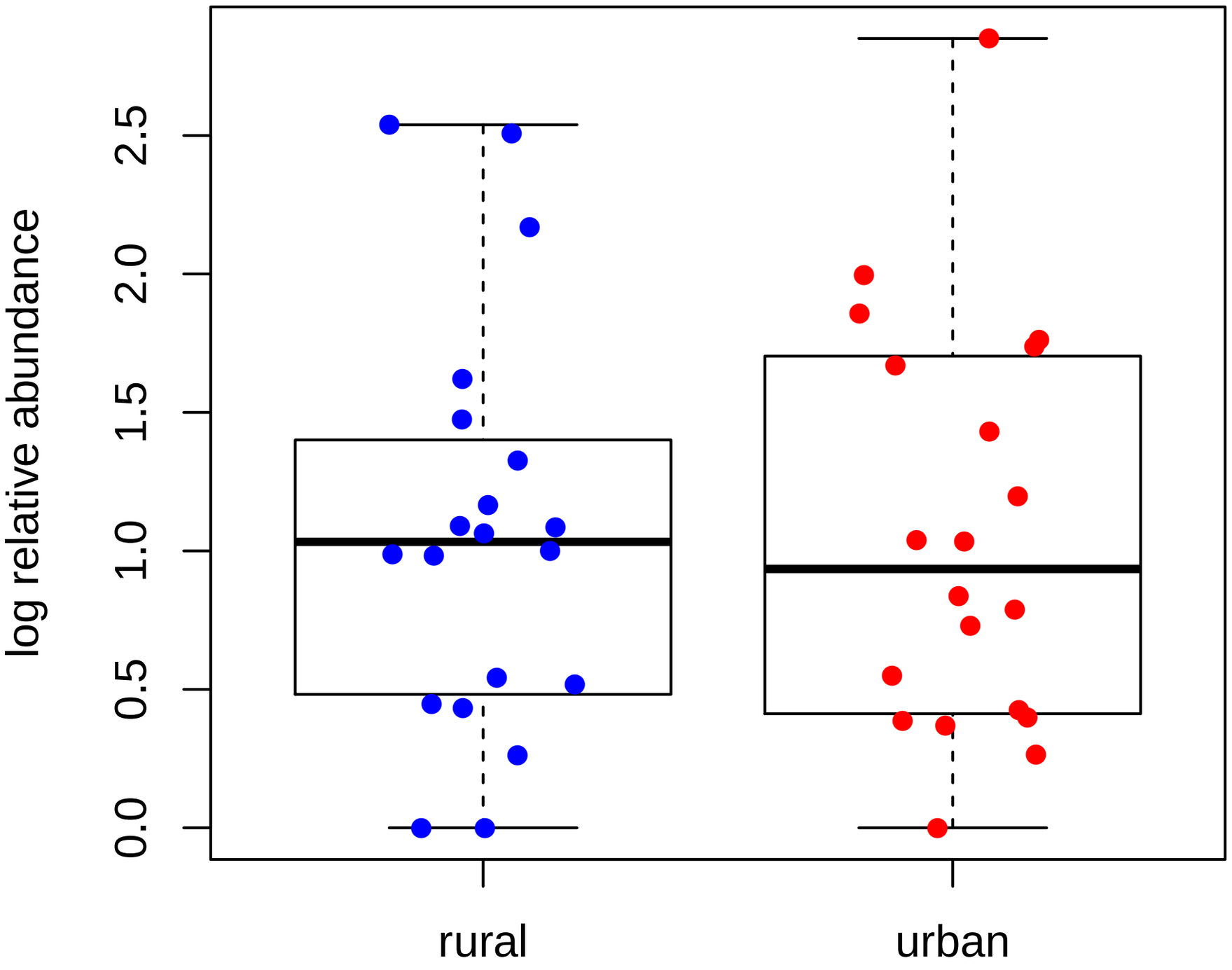

WGS species: Alistipes_finegoldii
pAdjRuralUrban= 0.977
log relative abundance
5.0
4.5
4.0
3.5
rural
urban

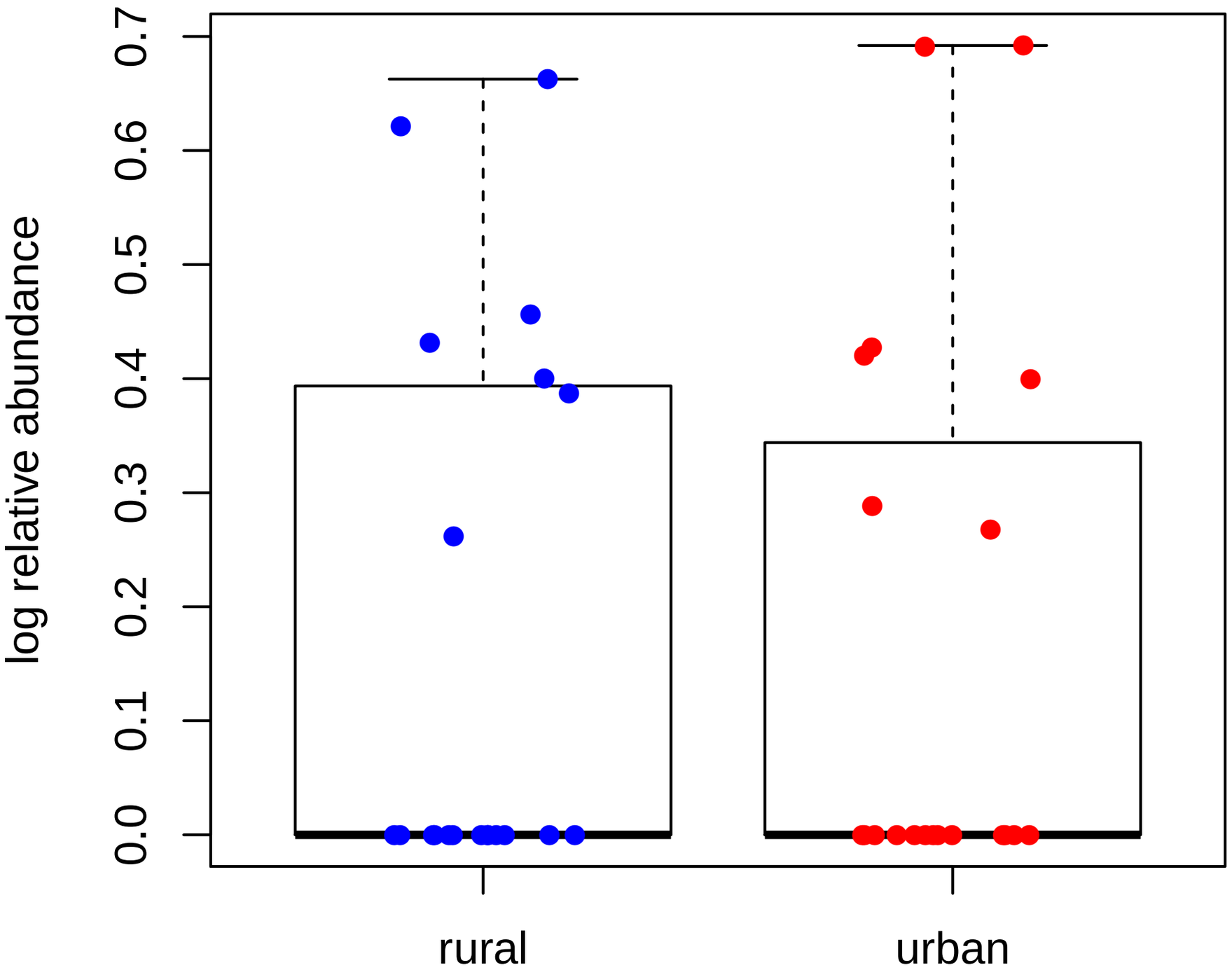

WGS species: Rubrobacter_xylanophilus
pAdjRuralUrban= 0.979
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

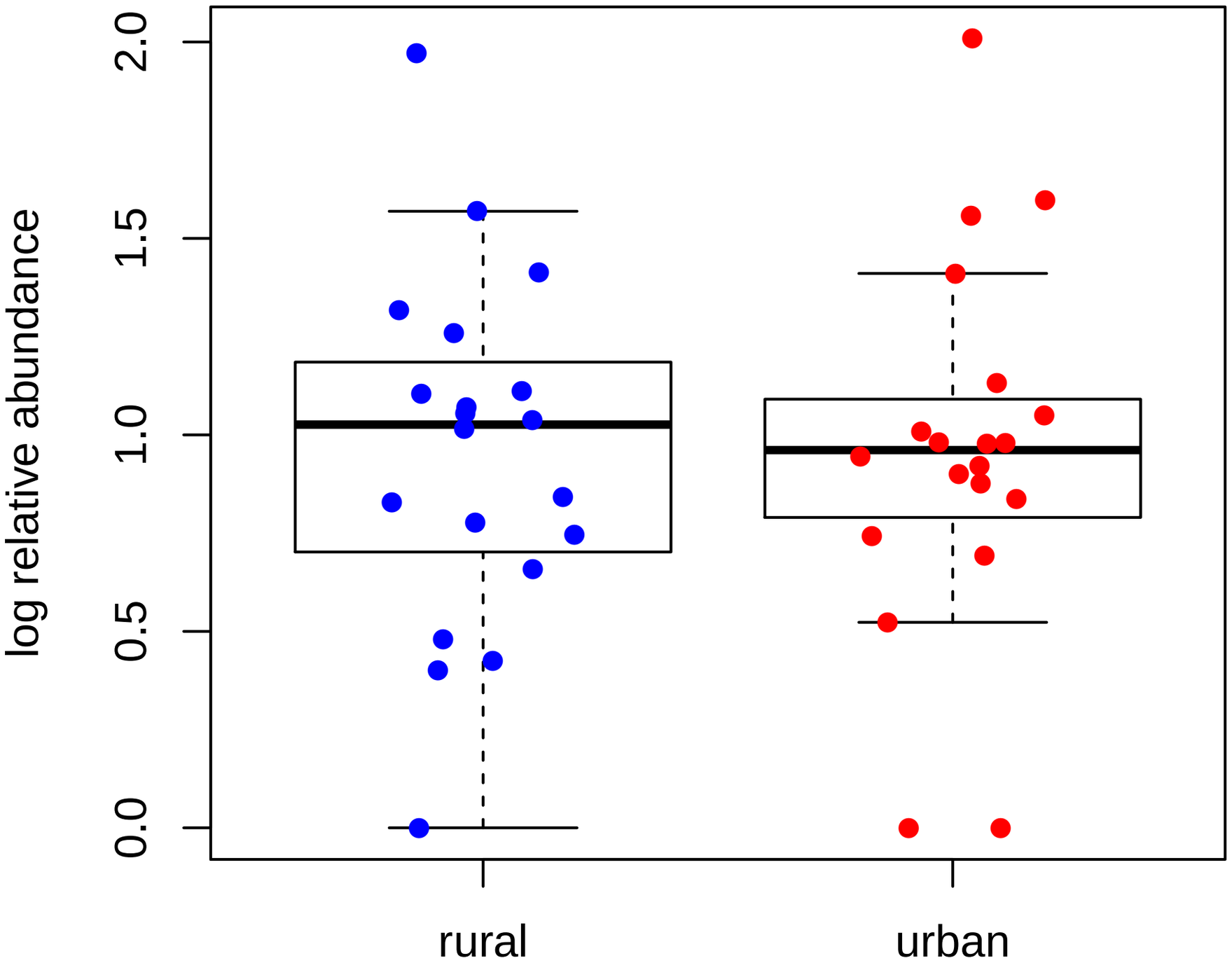

WGS species: Sulfuricurvum_kujiense
pAdjRuralUrban= 0.979
log relative abundance
0.0
0.2
0.4
0.6
rural
urban

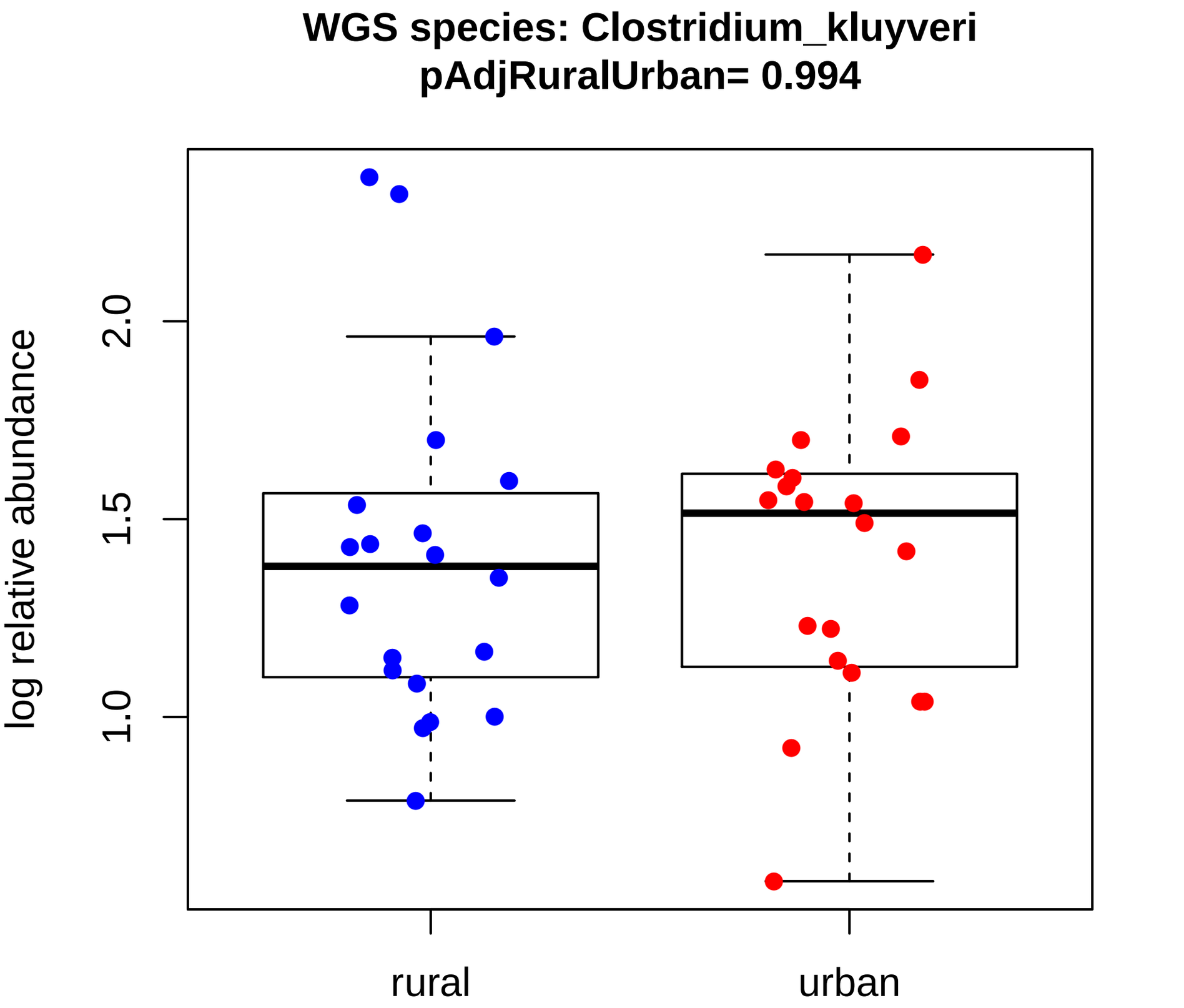

WGS species: Candidatus_Ruthia_magnifica
pAdjRuralUrban= 0.979
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
rural
urban

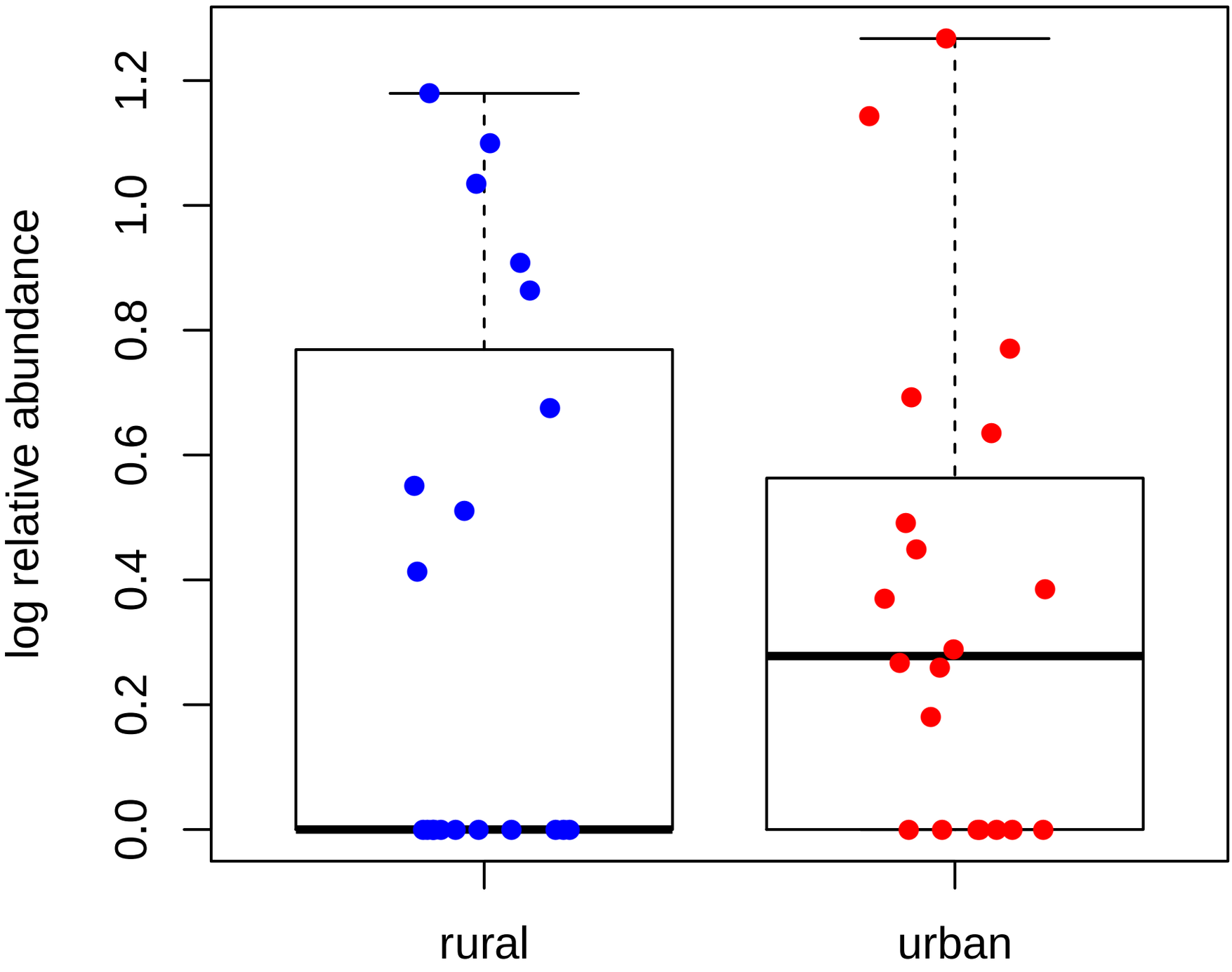

WGS species: Leptotrichia_buccalis
pAdjRuralUrban= 0.98
log relative abundance
0.5
1.0
1.5
2.0
rural
urban

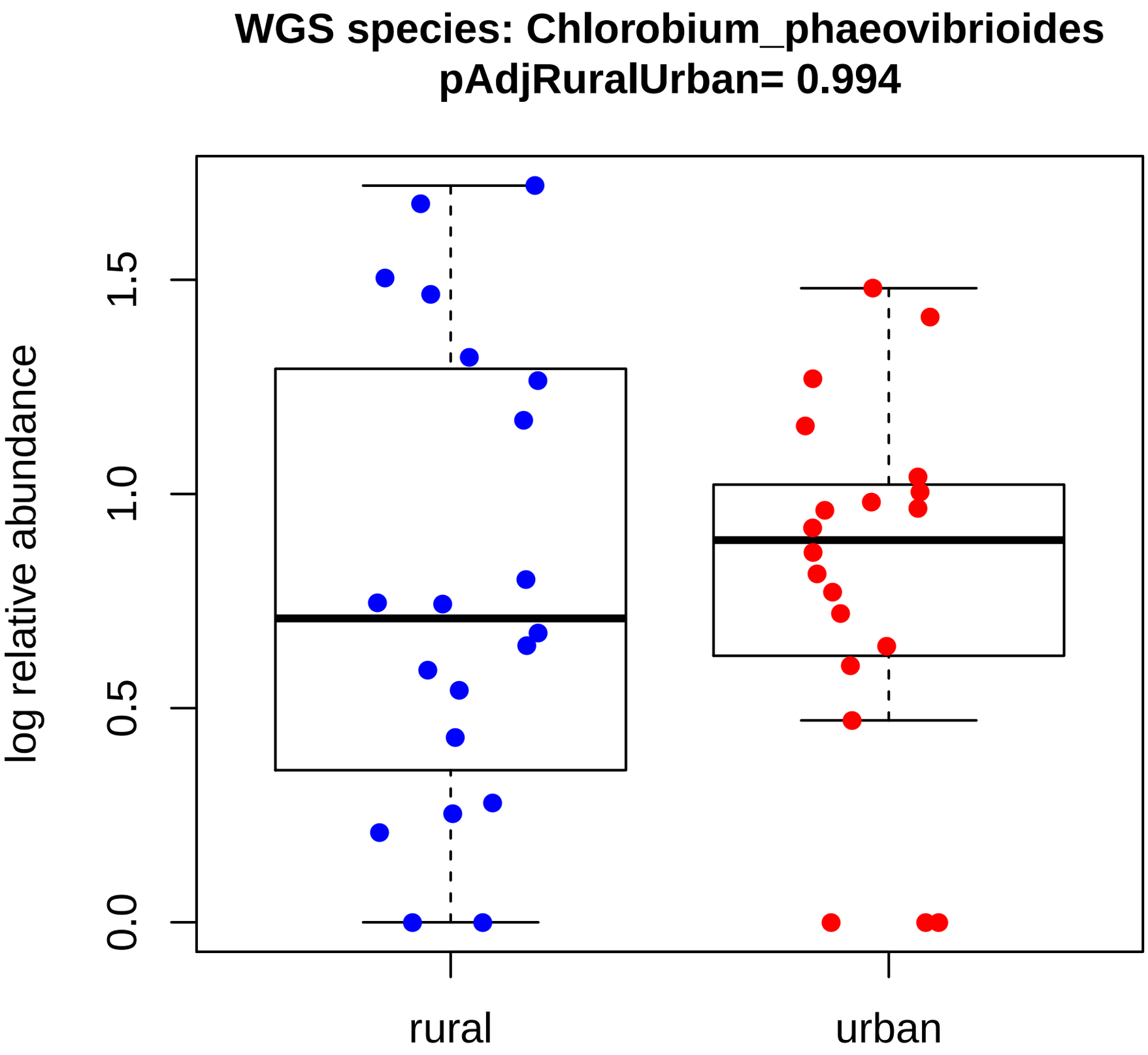

WGS species: Enterobacter_sp._R4.368
pAdjRuralUrban= 0.992
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
rural
urban

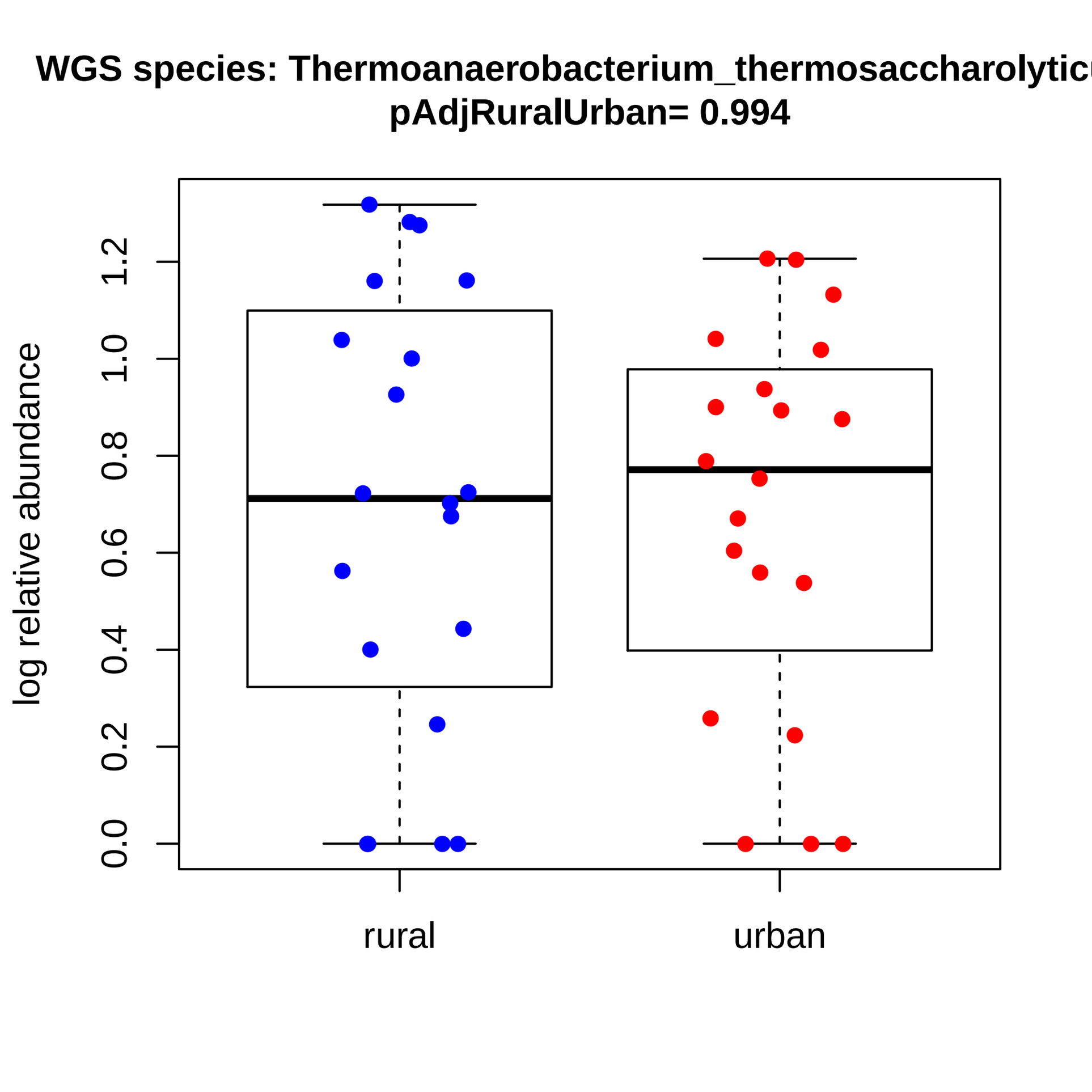

WGS species: Mycoplasma_bovis
pAdjRuralUrban= 0.992
log relative abundance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
rural
urban

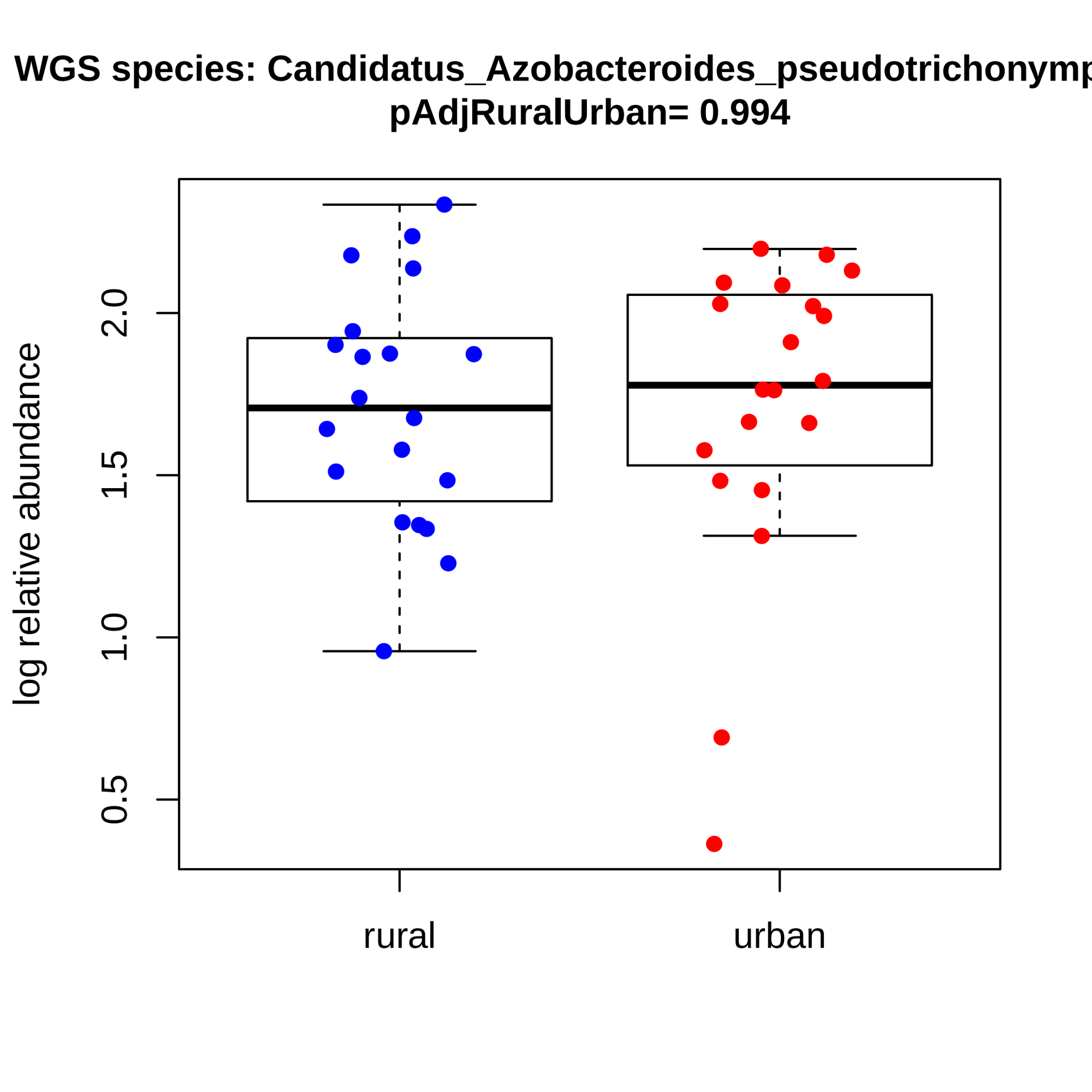

WGS species: Neisseria_gonorrhoeae
pAdjRuralUrban= 0.992
log relative abundance
0.0
0.5
1.0
1.5
2.0
rural
urban

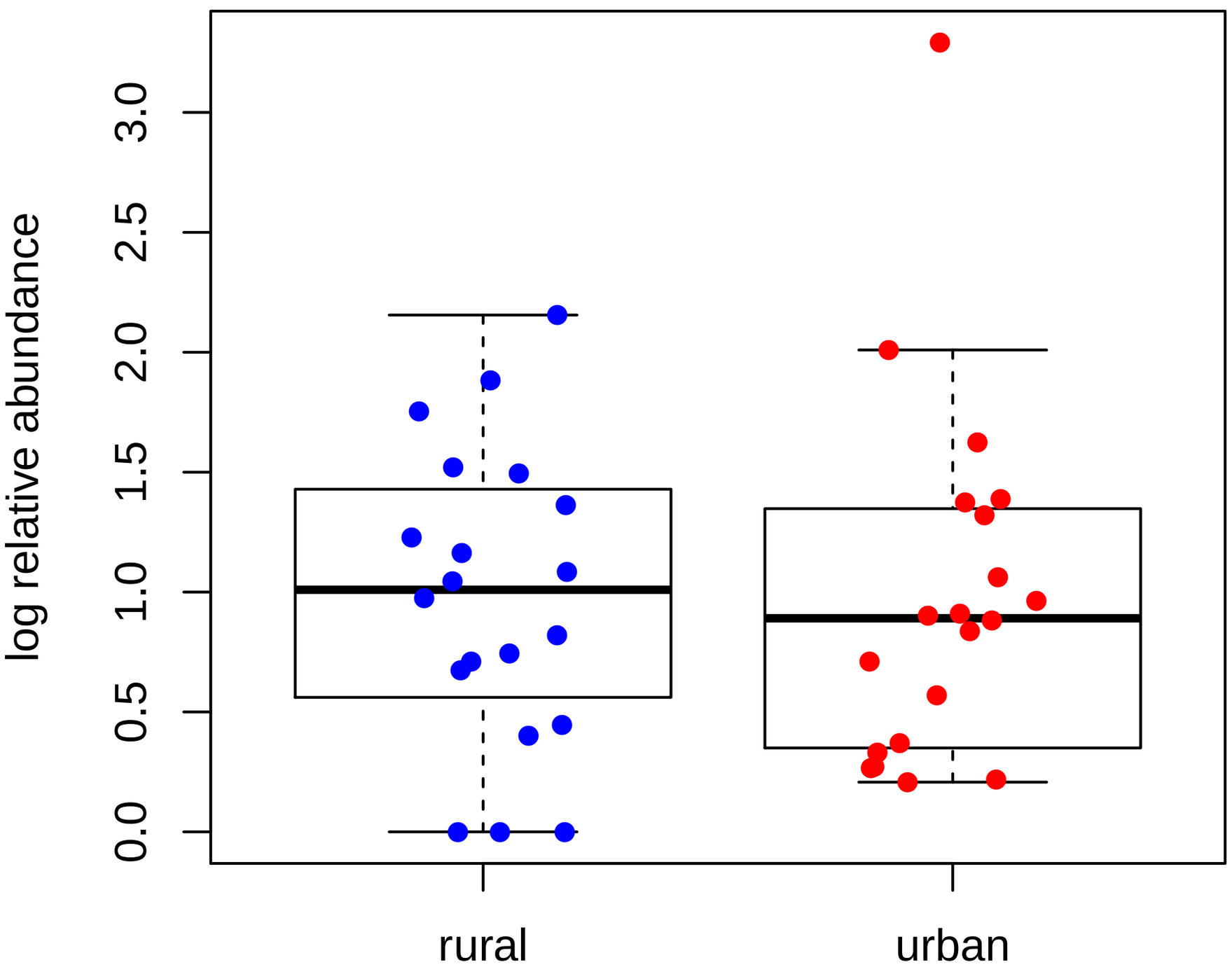

WGS species: Clostridium_kluyveri
pAdjRuralUrban= 0.994
log relative abundance
1.0
1.5
2.0
rural
urban

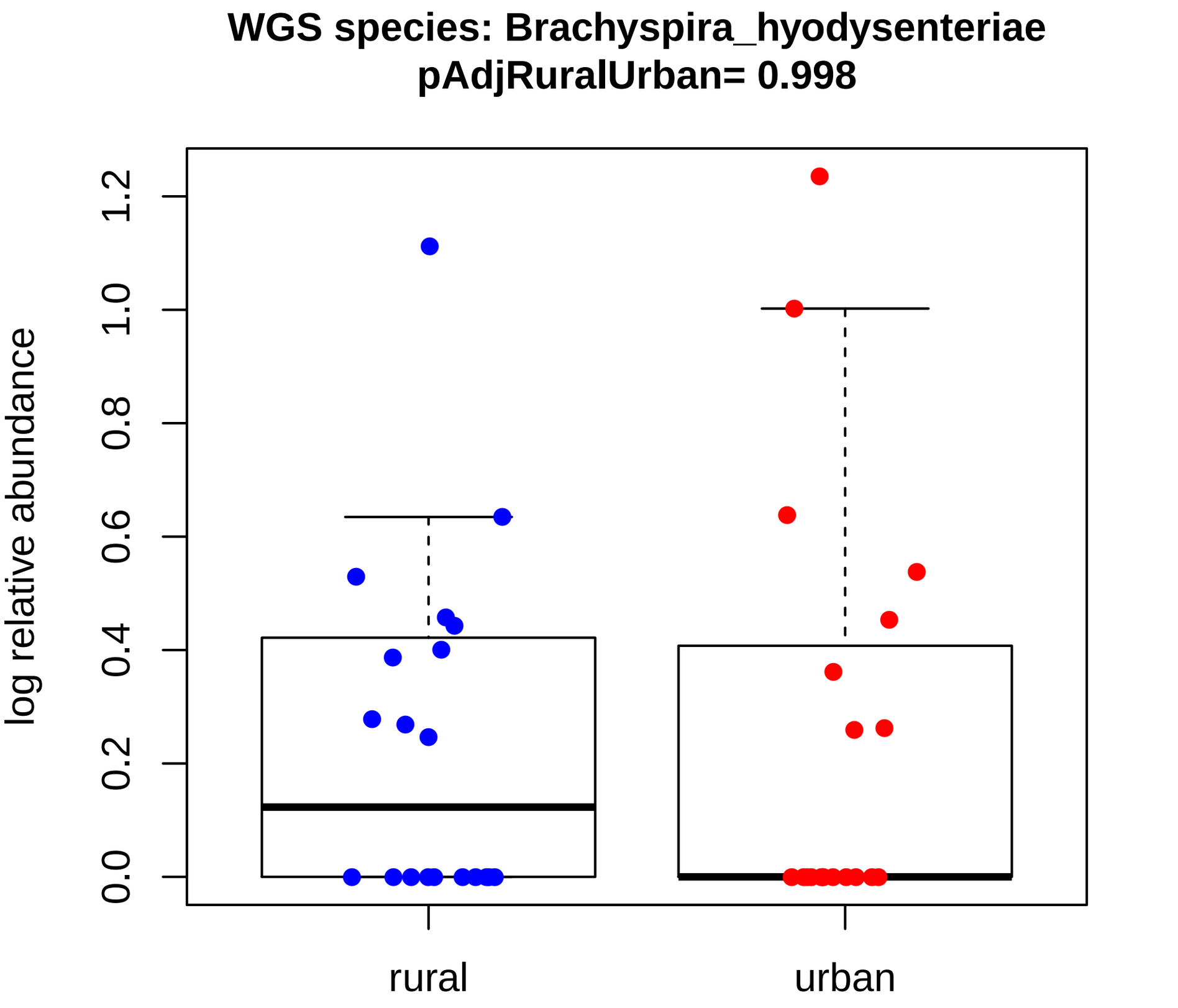

WGS species: Pseudomonas_sp._UW4
pAdjRuralUrban= 0.994
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

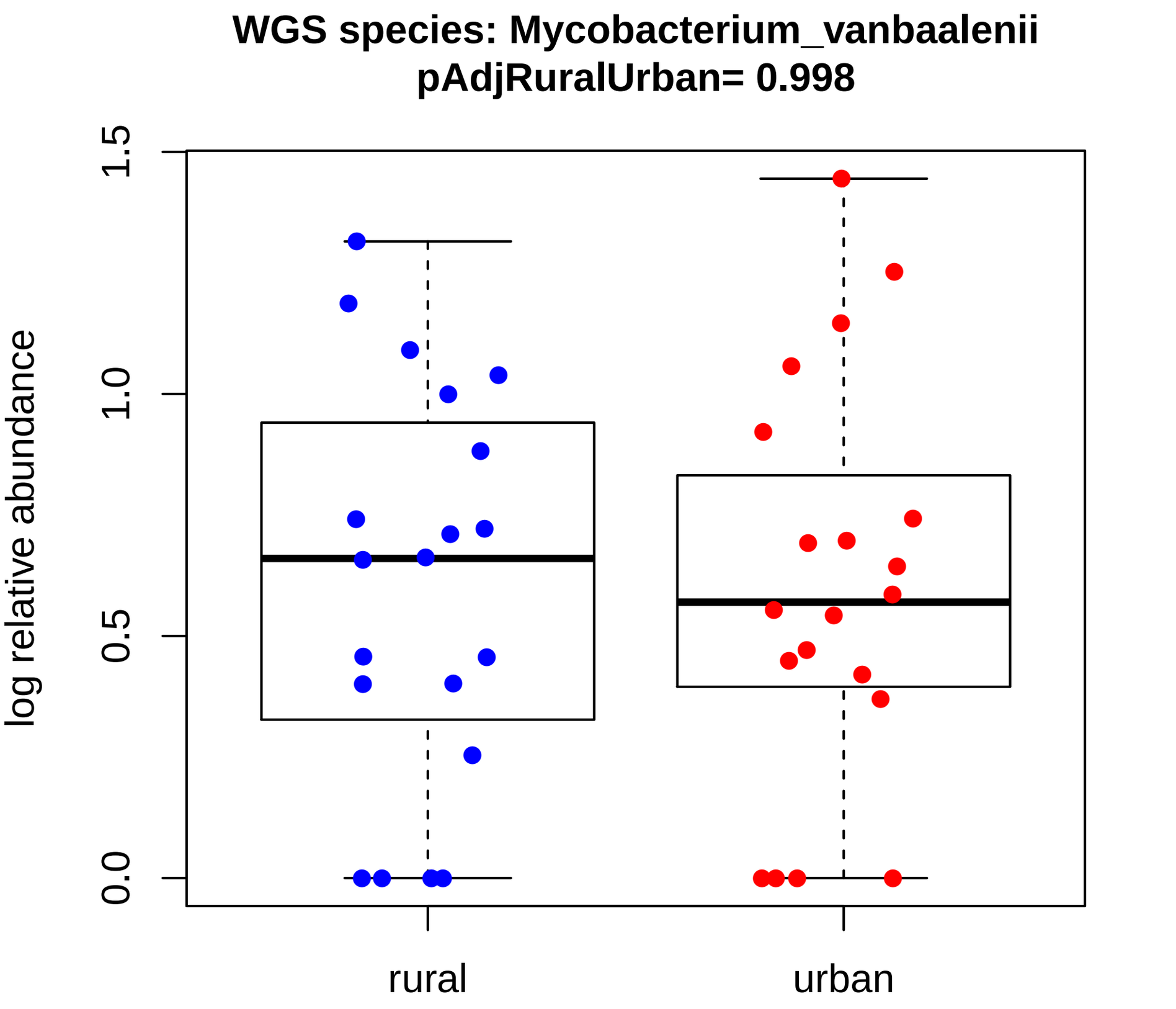

WGS species: Chlorobium_phaeovibrioides
pAdjRuralUrban= 0.994
log relative abundance
0.0
0.5
1.0
1.5
rural
urban

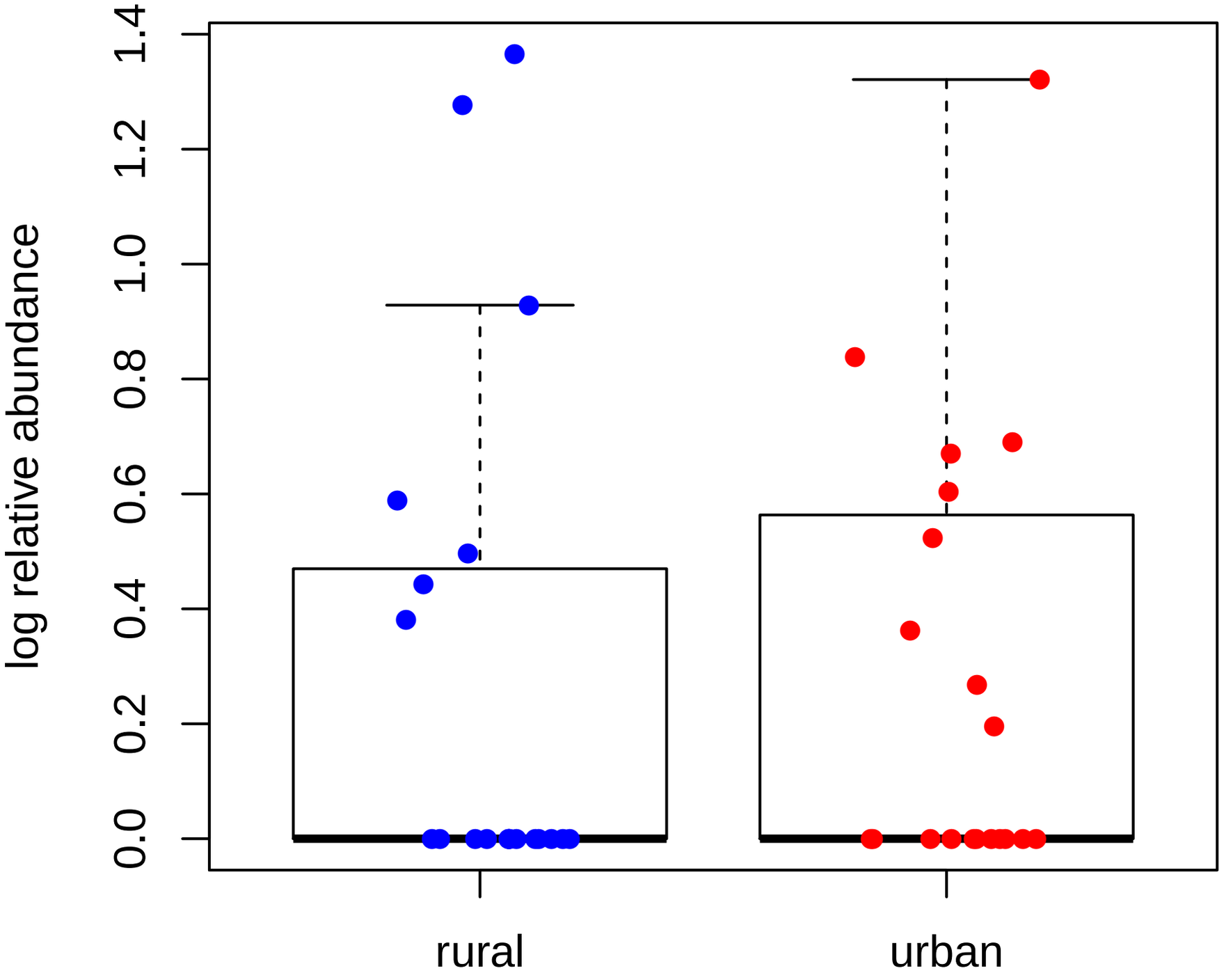

WGS species: Thermoanaerobacterium_thermosaccharolytic
pAdjRuralUrban= 0.994
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban

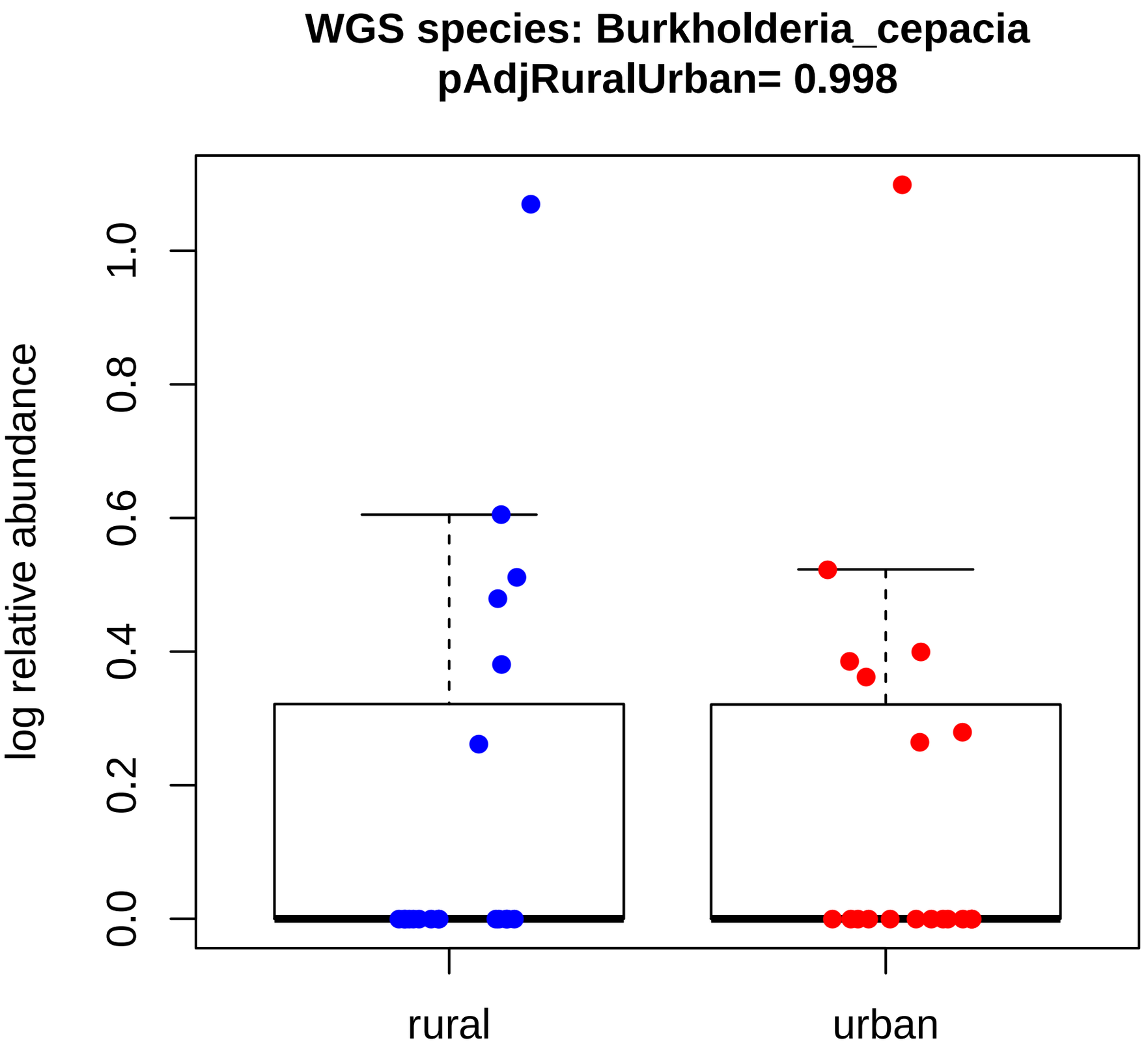

WGS species: Candidatus_Azobacteroides_pseudotrichonymp
pAdjRuralUrban= 0.994
log relative abundance
0.5
1.0
1.5
2.0
rural
urban


WGS species: Sodalis_glossinidius
pAdjRuralUrban= 0.994
log relative abundance
0.0
0.5
1.0
1.5
2.0
2.5
3.0
rural
urban


WGS species: Brachyspira_hyodysenteriae
pAdjRuralUrban= 0.998
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
rural
urban


WGS species: Mycobacterium_vanbaalenii
pAdjRuralUrban= 0.998
log relative abundance
0.0
0.5
1.0
1.5
rural
urban


WGS species: Erwinia_sp._Ejp617
pAdjRuralUrban= 0.998
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
rural
urban


WGS species: Burkholderia_cepacia
pAdjRuralUrban= 0.998
log relative abundance
0.0
0.2
0.4
0.6
0.8
1.0
rural
urban