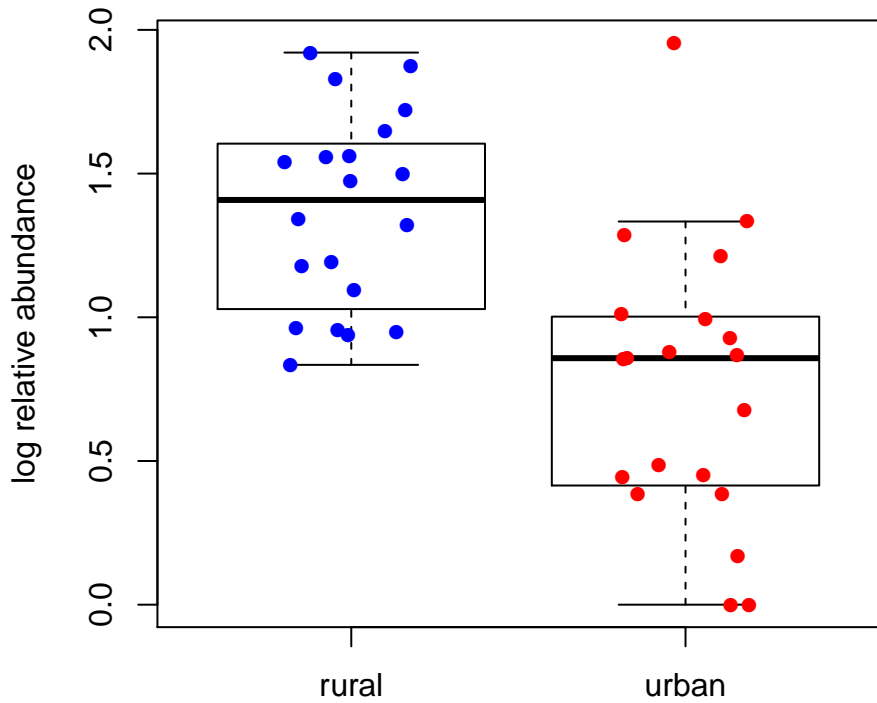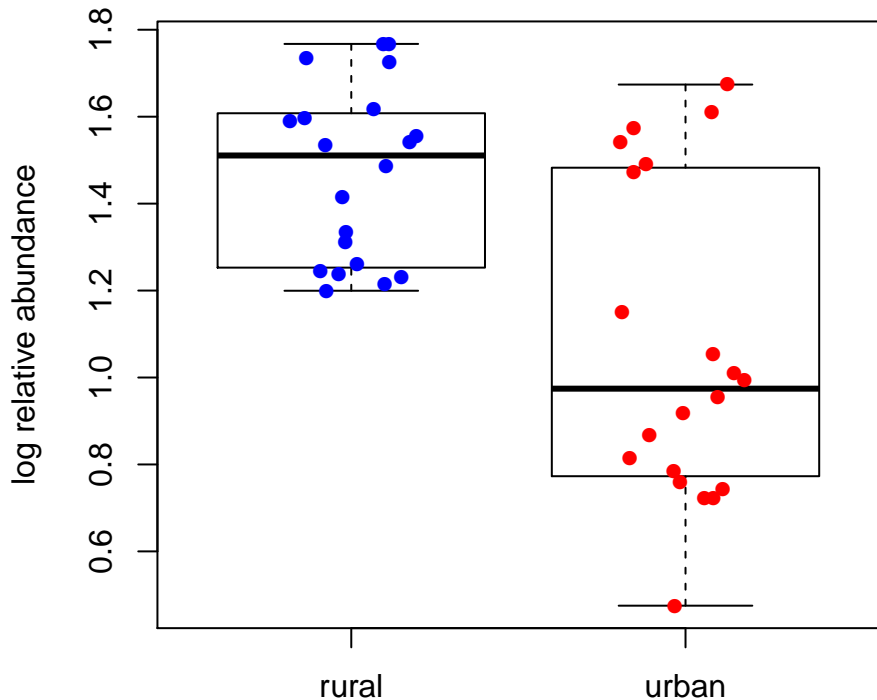**WGS family: Methylophilaceae**
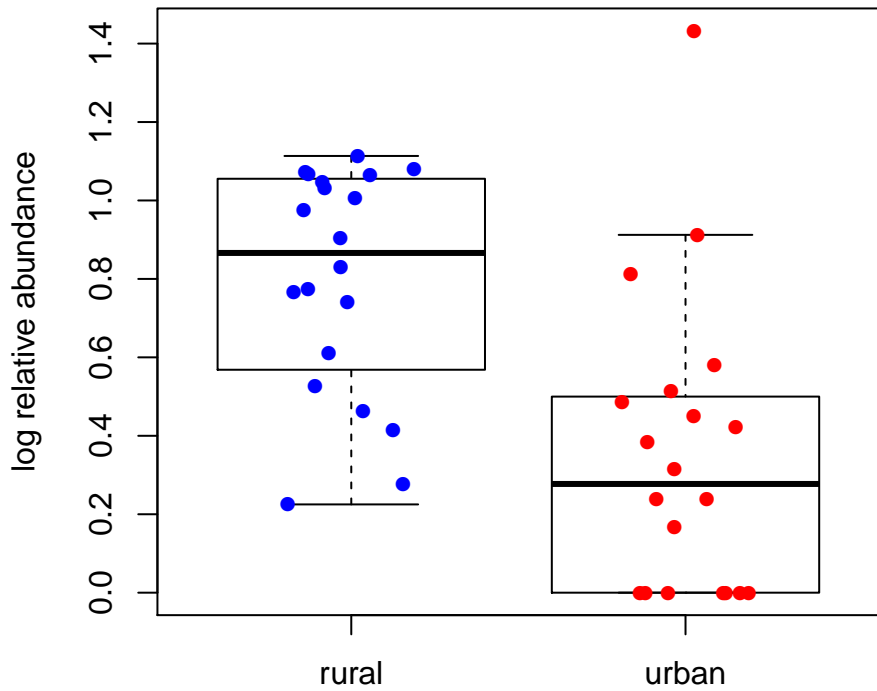**pAdjRuralUrban= 0.00931**
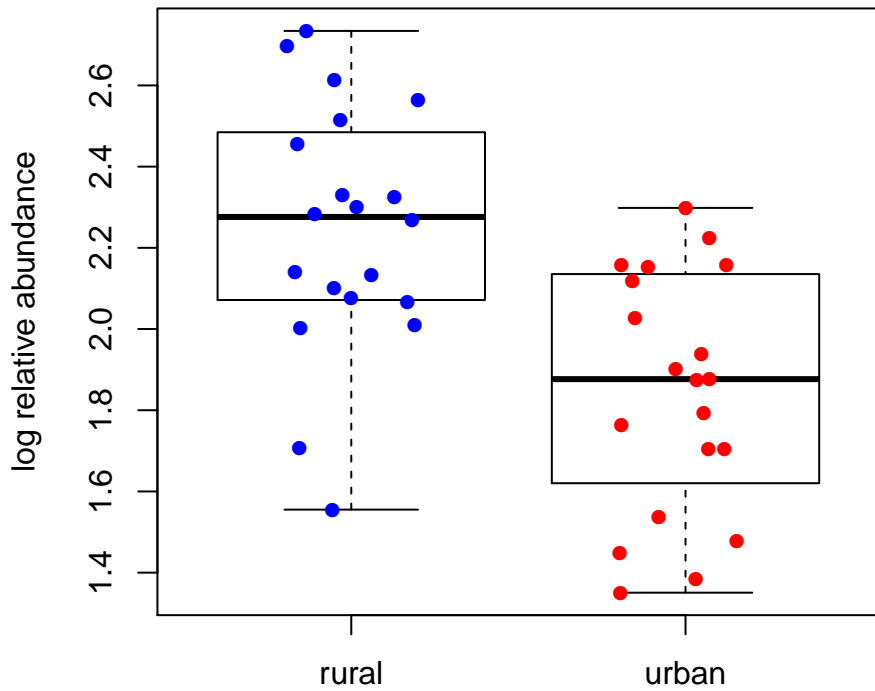
WGS family: Listeriaceae
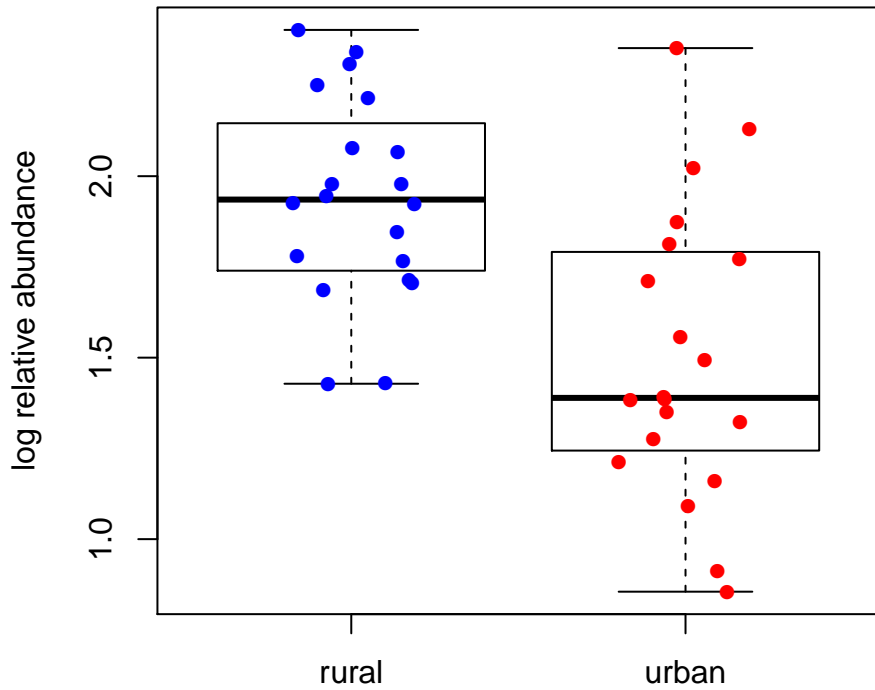**pAdjRuralUrban= 0.00931**

WGS family: Kineosporiaceae
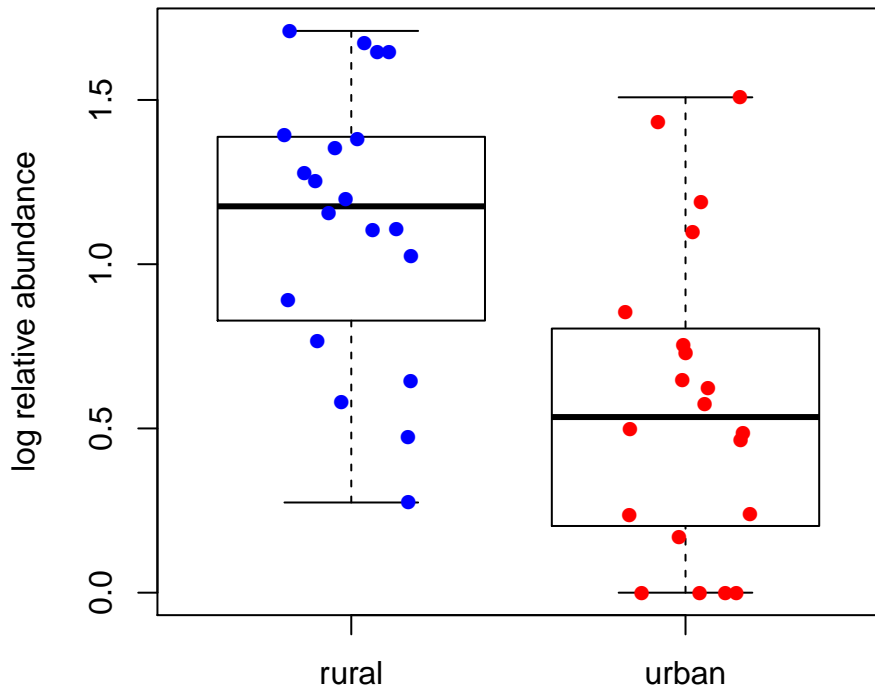**pAdjRuralUrban= 0.00931**

WGS family: Corynebacteriaceae
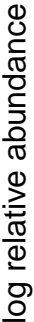**pAdjRuralUrban= 0.00931**

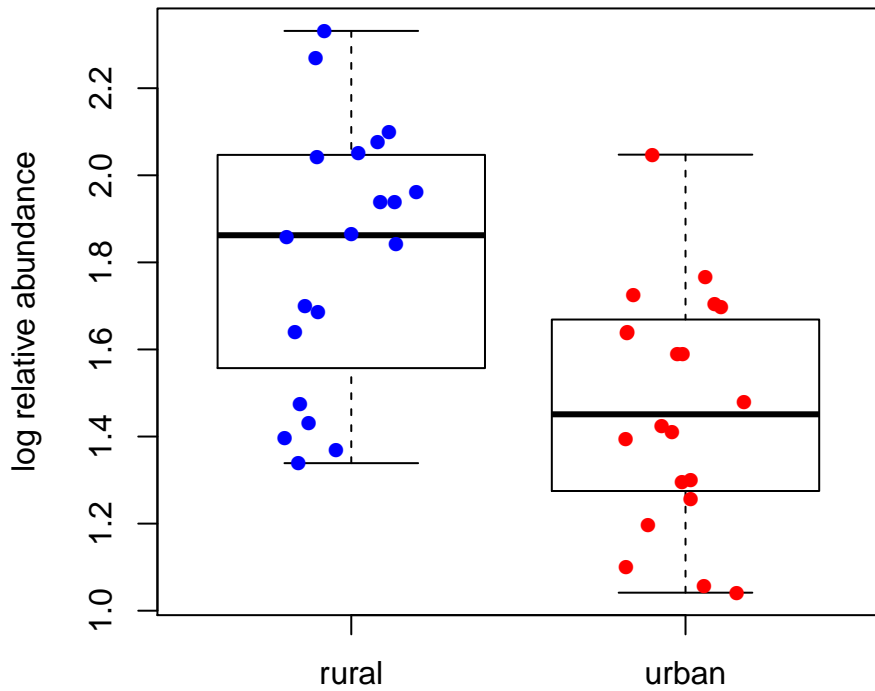**WGS family: Thermoanaerobacteraceae**
pAdjRuralUrban= 0.0111

WGS family: Brucellaceae
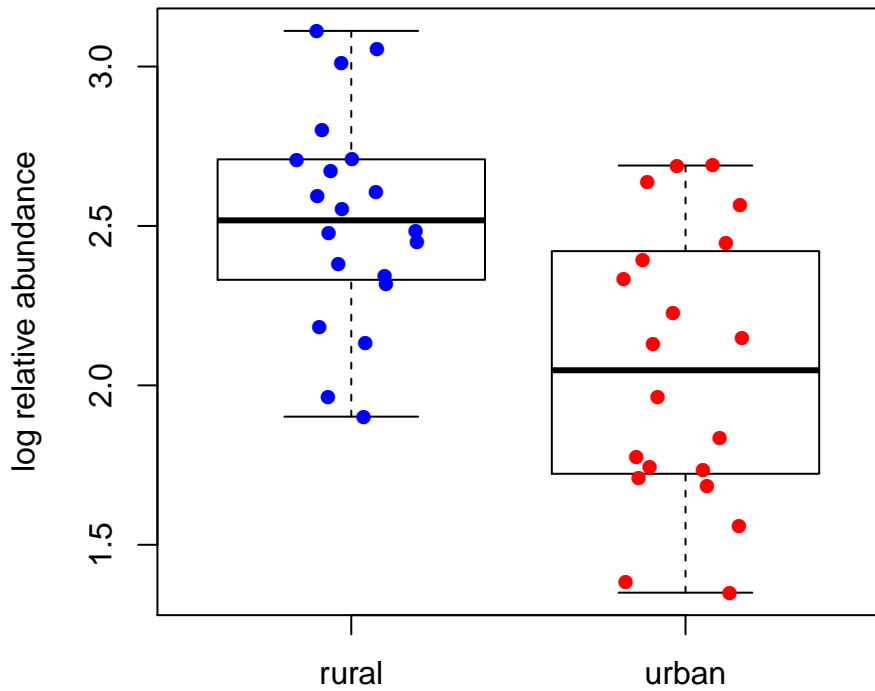**pAdjRuralUrban= 0.0111**

WGS family: Acidobacteriaceae
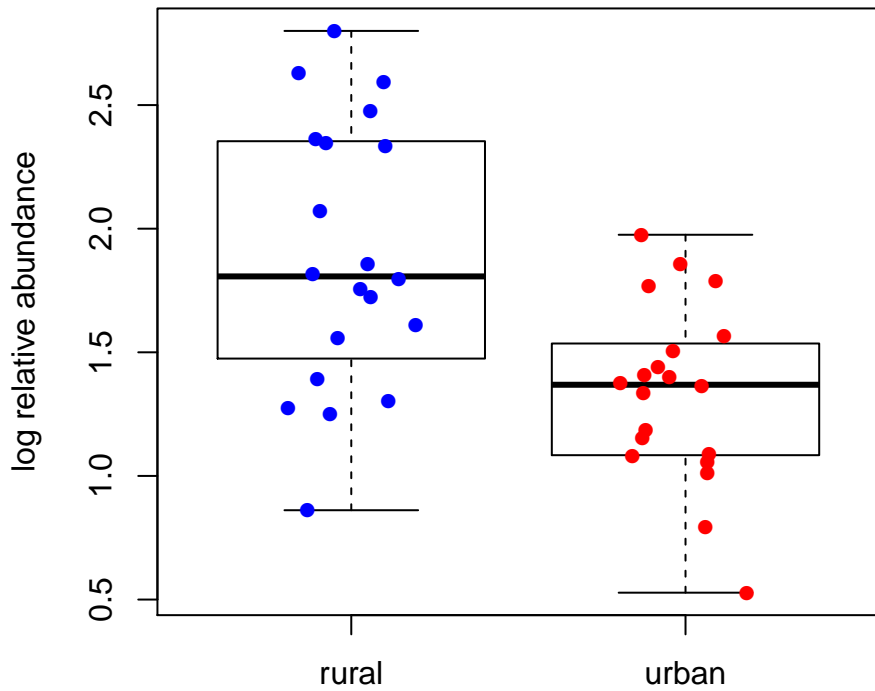**pAdjRuralUrban= 0.0111**

WGS family: Propionibacteriaceae
pAdjRuralUrban= 0.0111
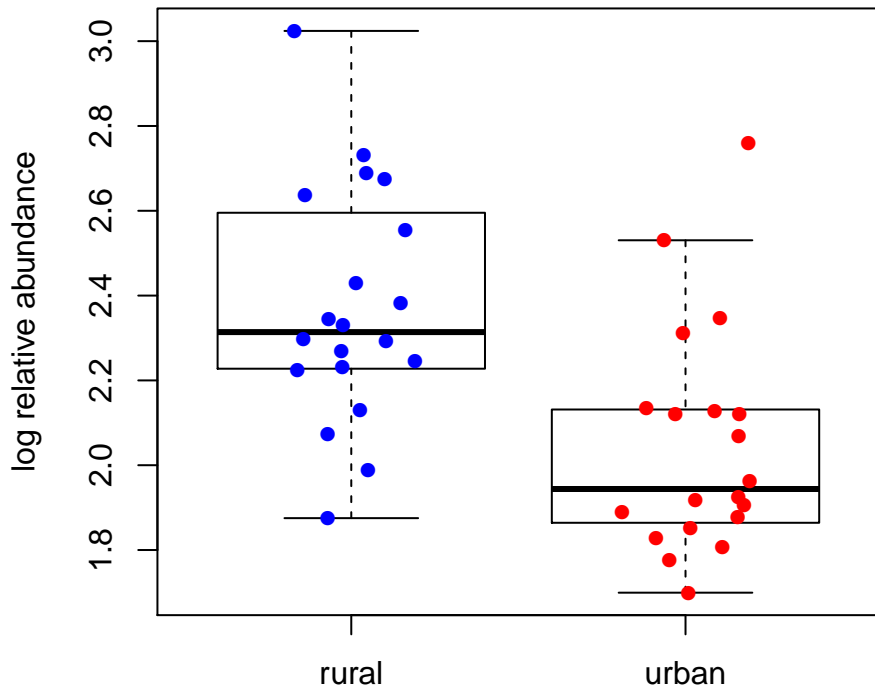
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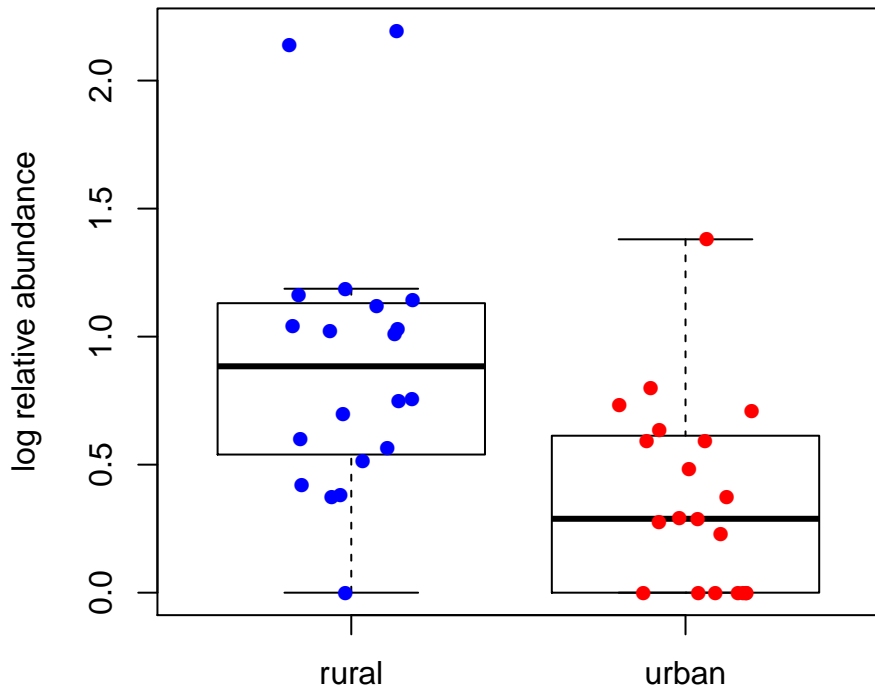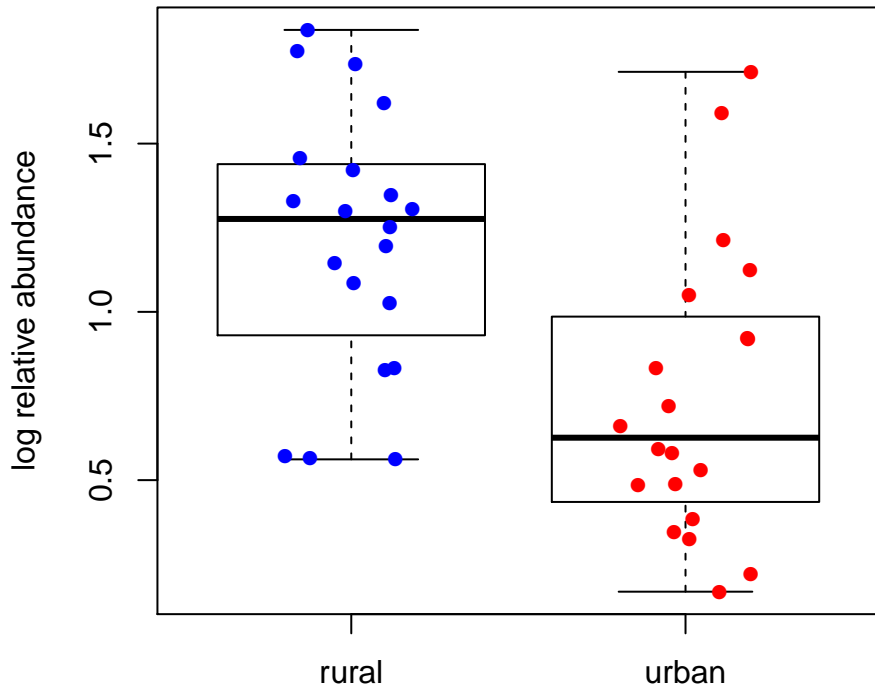
WGS family: Shewanellaceae
pAdjRuralUrban= 0.0112
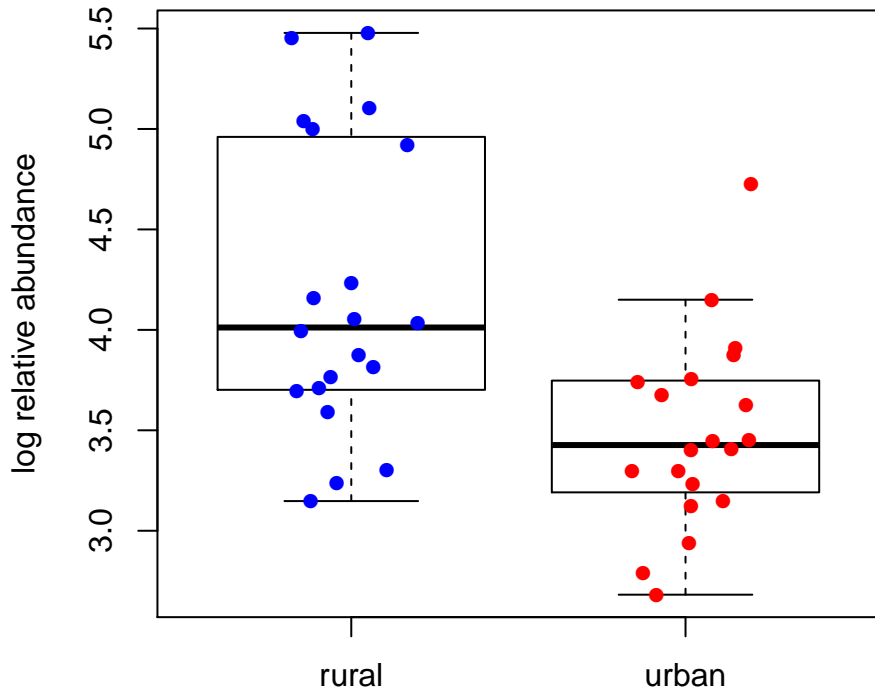
WGS family: Bacillaceae
pAdjRuralUrban= 0.0131
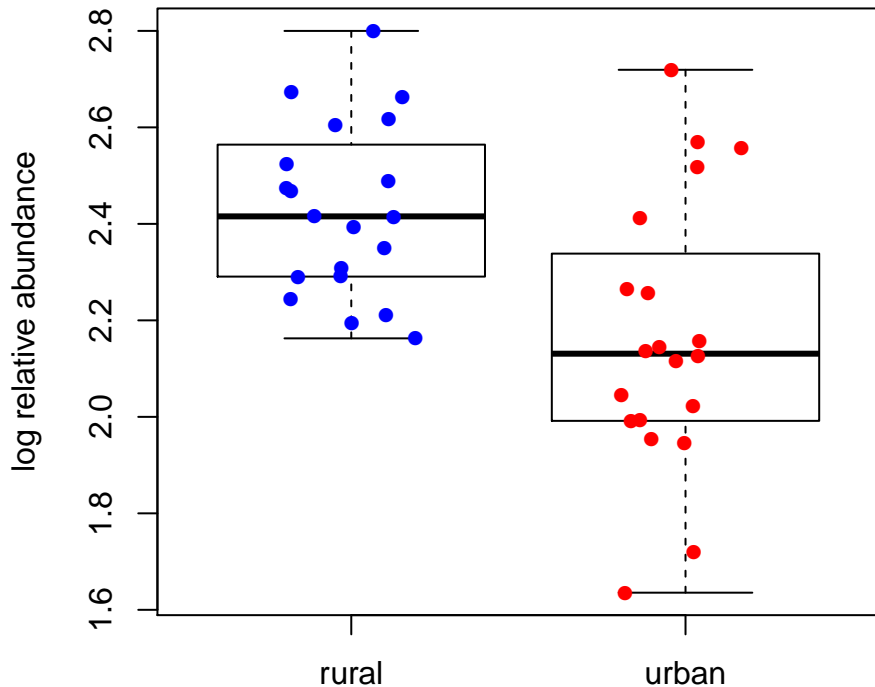
WGS family: Cystobacteraceae
pAdjRuralUrban= 0.0152

WGS family: Kofleriaceae
pAdjRuralUrban= 0.0154

WGS family: Streptococcaceae
pAdjRuralUrban= 0.0154

WGS family: Peptococcaceae
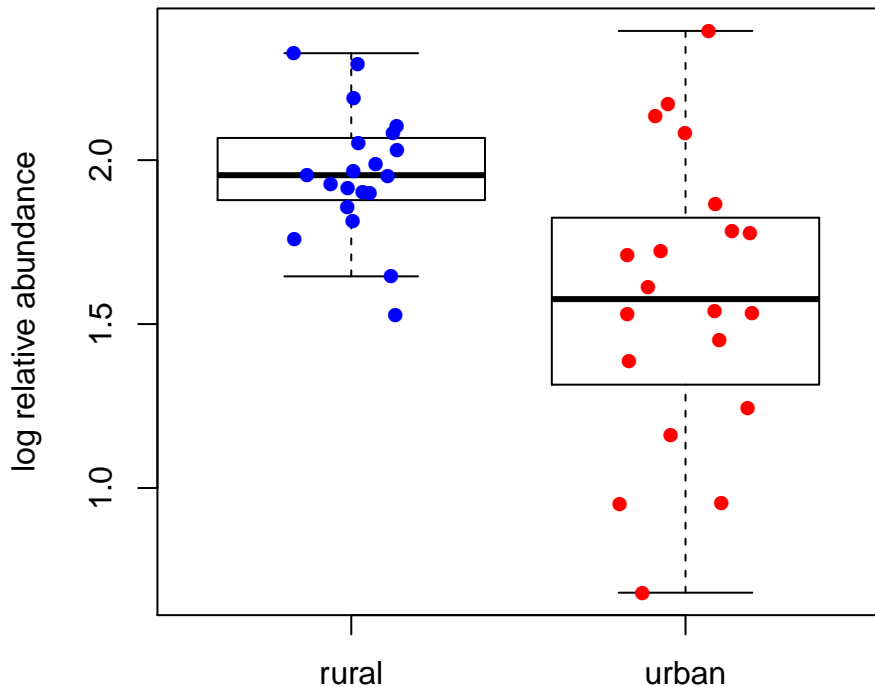**pAdjRuralUrban= 0.0154**

WGS family: Staphylococcaceae
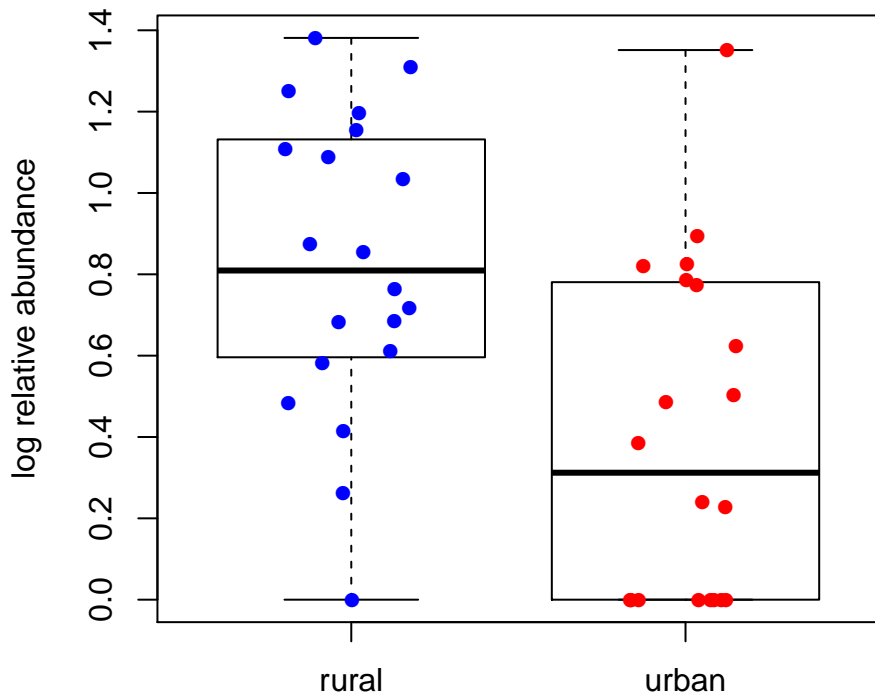**pAdjRuralUrban= 0.0154**

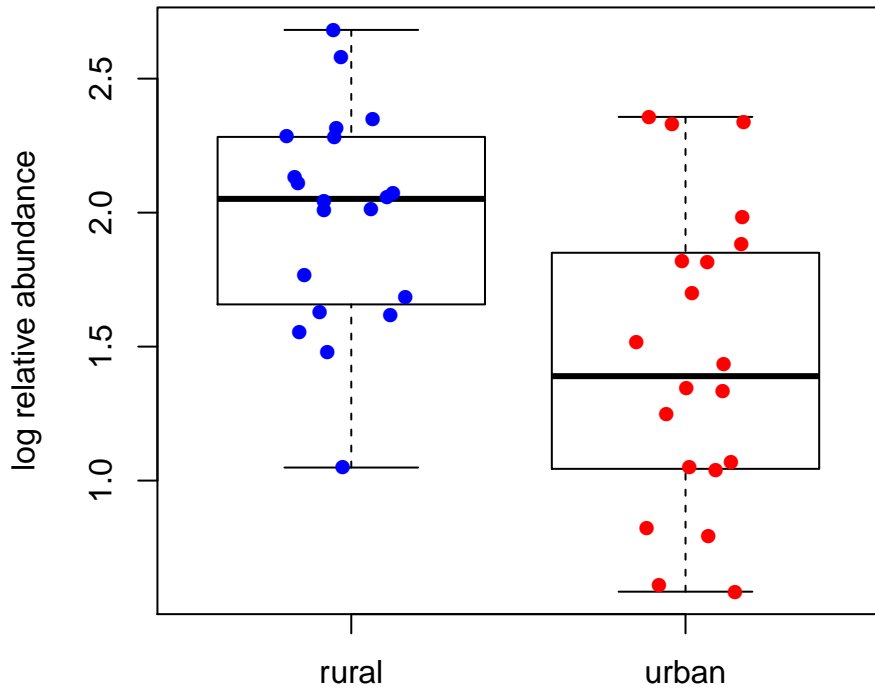**WGS family: Methanobacteriaceae**
pAdjRuralUrban= 0.016
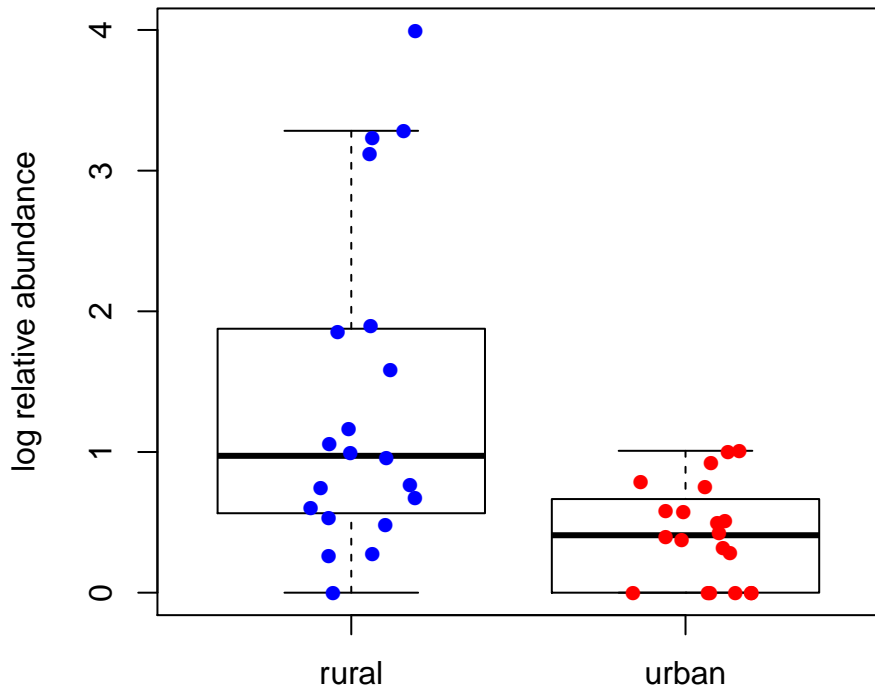
WGS family: Sphingomonadaceae
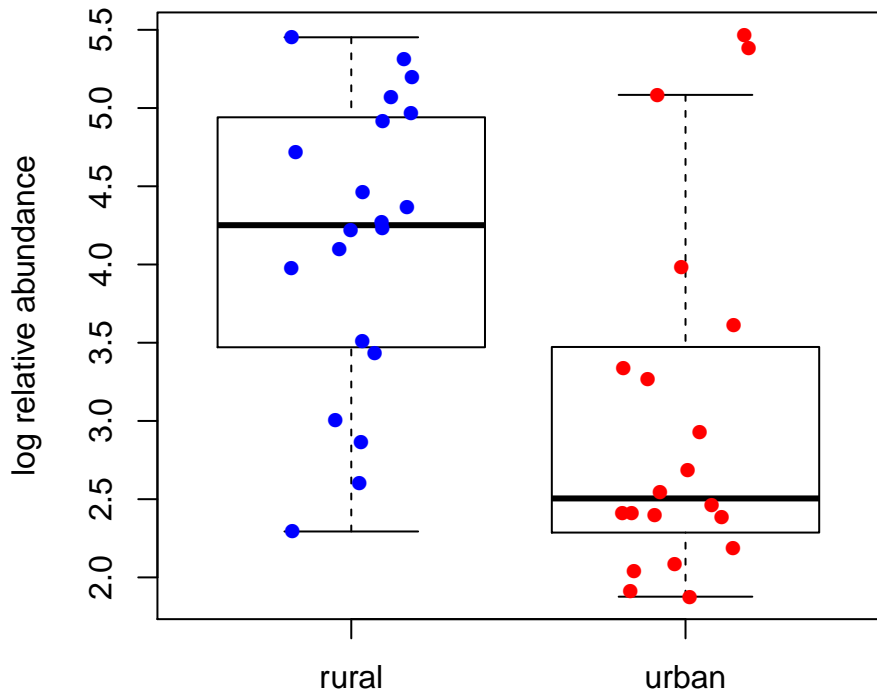**pAdjRuralUrban= 0.016**

WGS family: Spiroplasmataceae
pAdjRuralUrban= 0.016

WGS family: Rhodocyclaceae
pAdjRuralUrban= 0.016

WGS family: Veillonellaceae
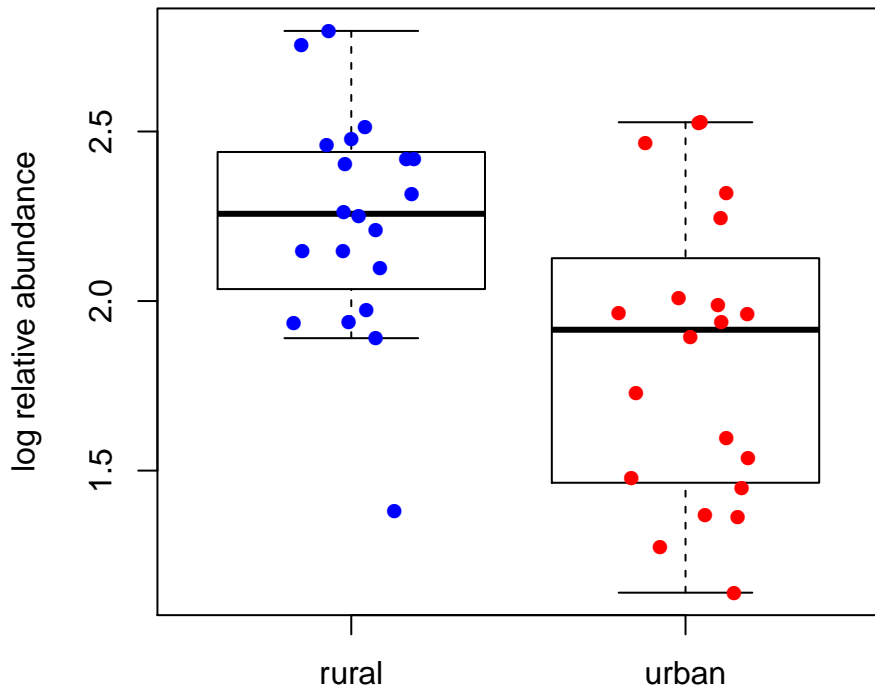**pAdjRuralUrban= 0.016**

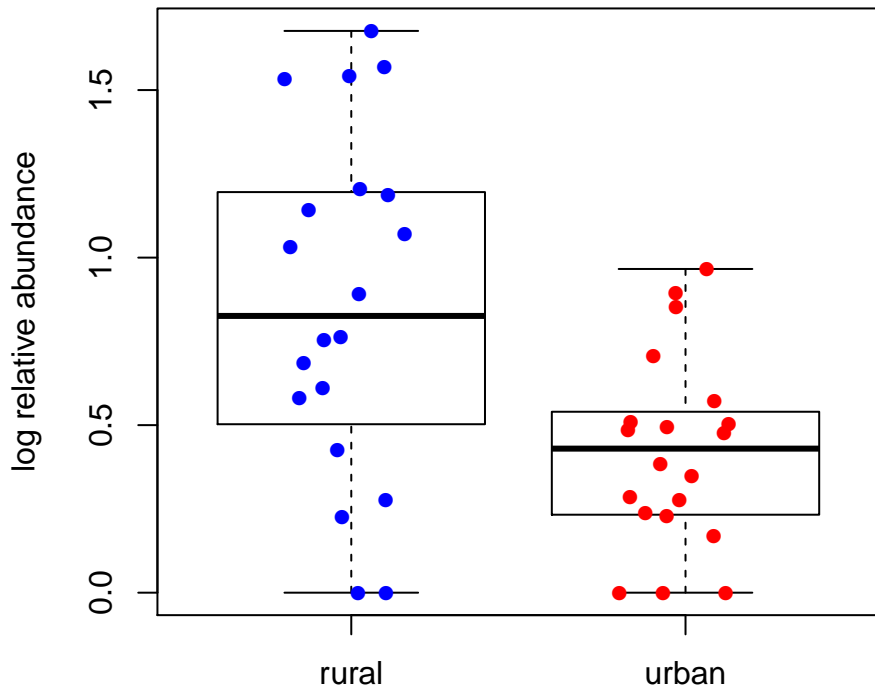**WGS family: Herpetosiphonaceae**
pAdjRuralUrban= 0.016

WGS family: Enterococcaceae
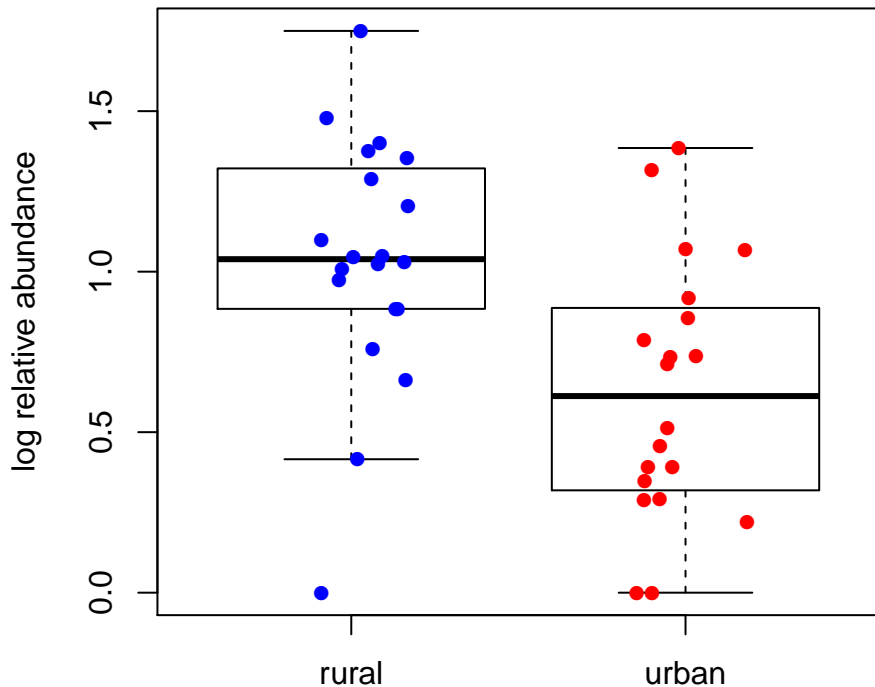**pAdjRuralUrban= 0.0163**
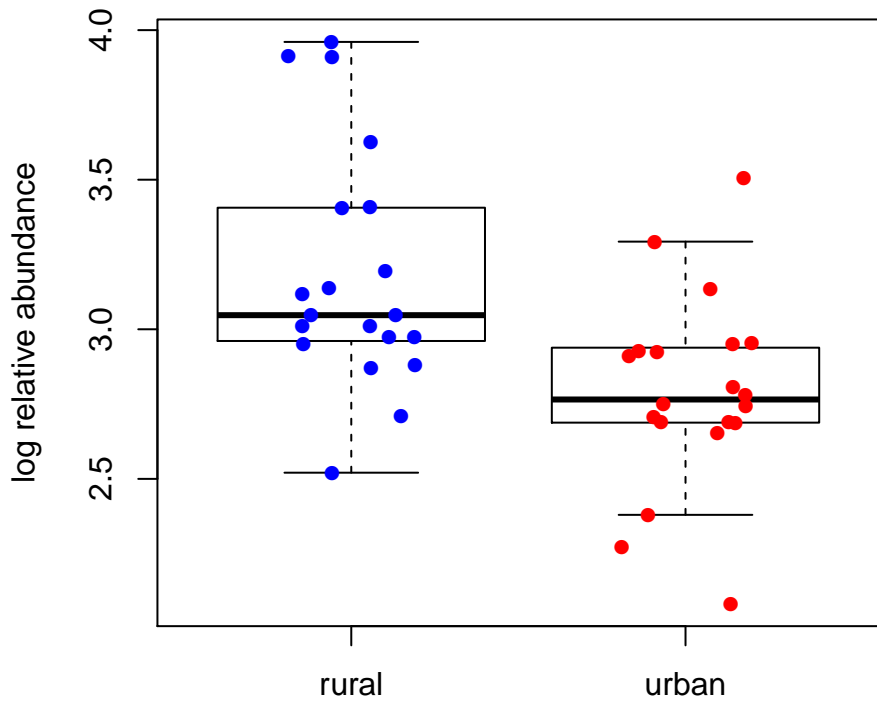
WGS family: Comamonadaceae
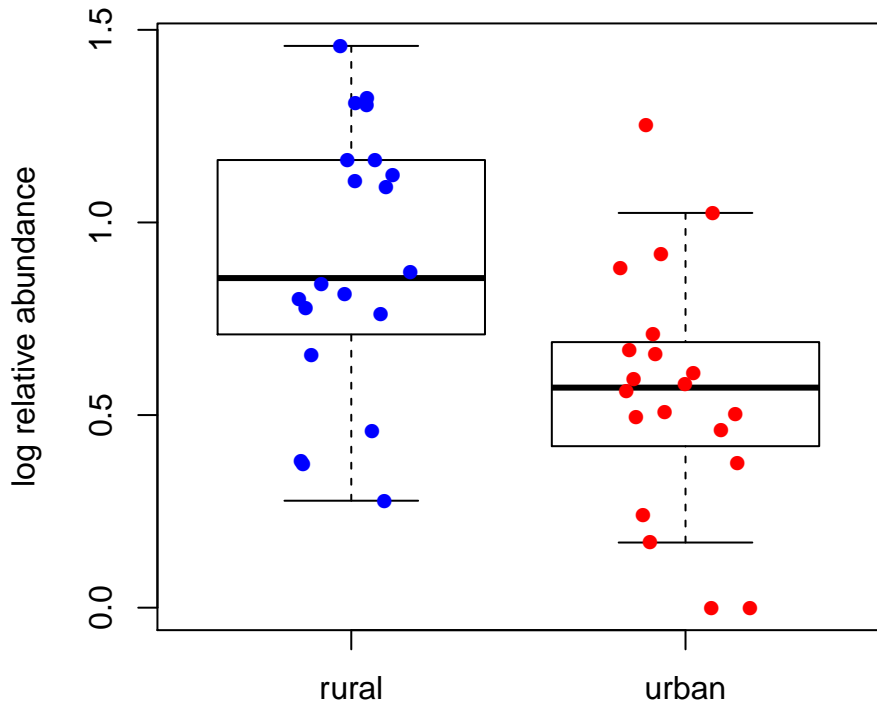**pAdjRuralUrban= 0.0184**

WGS family: Prochlorococcaceae
pAdjRuralUrban= 0.0184
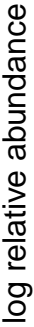
WGS family: Promicromonosporaceae
pAdjRuralUrban= 0.0197

WGS family: Nitrospiraceae
pAdjRuralUrban= 0.0216

WGS family: Bradyrhizobiaceae
pAdjRuralUrban= 0.0234

WGS family: Acholeplasmataceae
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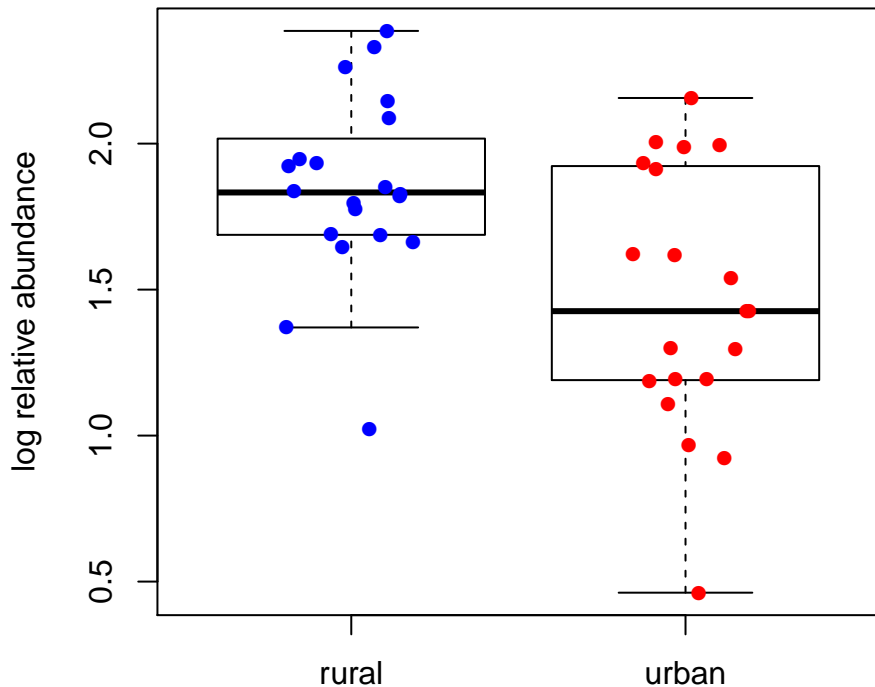
WGS family: Ignavibacteriaceae
pAdjRuralUrban= 0.0248

WGS family: Rhodothermaceae
pAdjRuralUrban= 0.0249
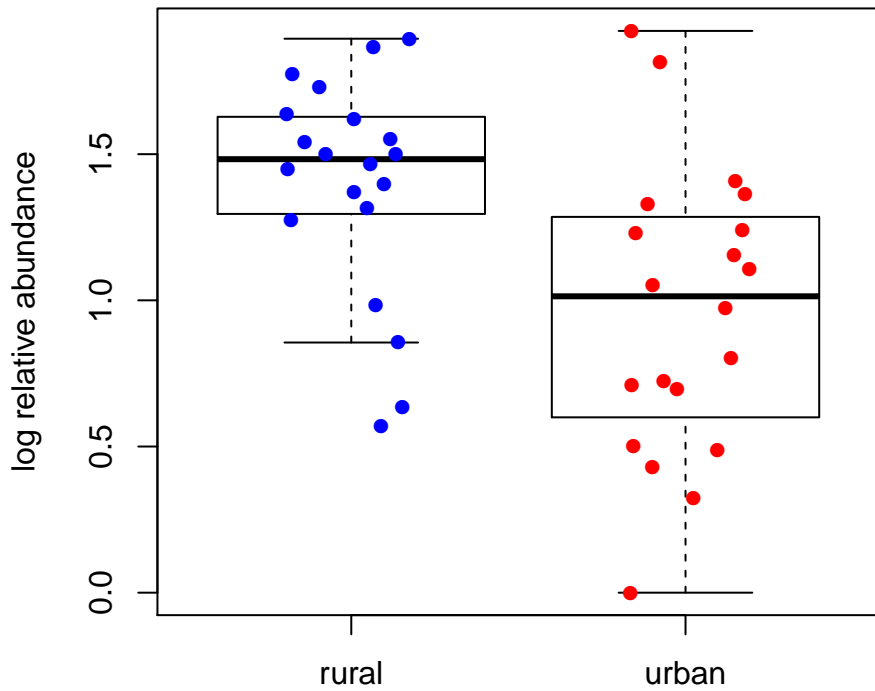
WGS family: Thermoanaerobacterales_Family_III._Incertae_Se...
pAdjRuralUrban= 0.0249

WGS family: Xanthomonadaceae
pAdjRuralUrban= 0.0249

WGS family: Deferribacteraceae
pAdjRuralUrban= 0.0249

WGS family: Lachnospiraceae
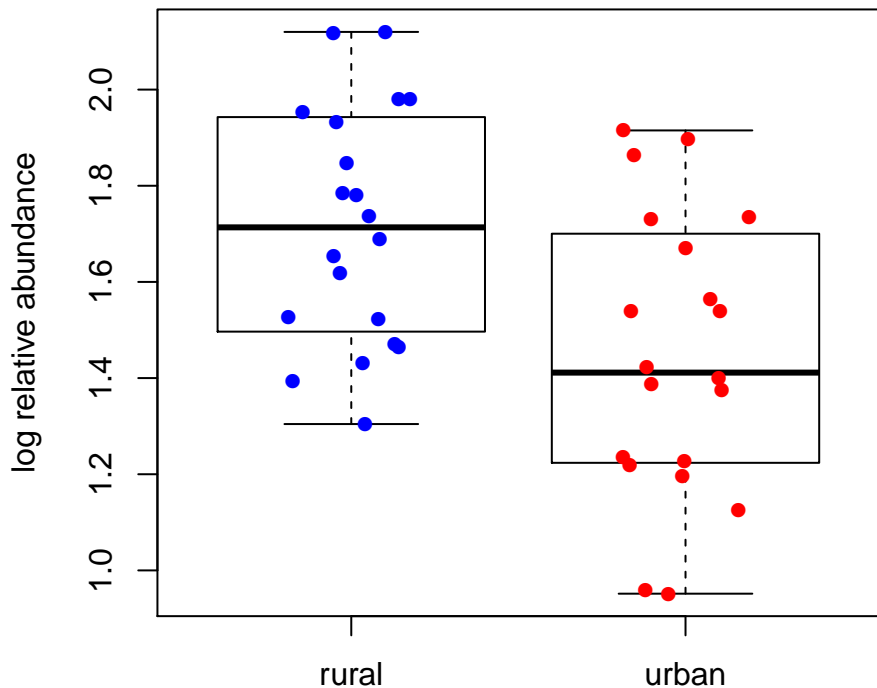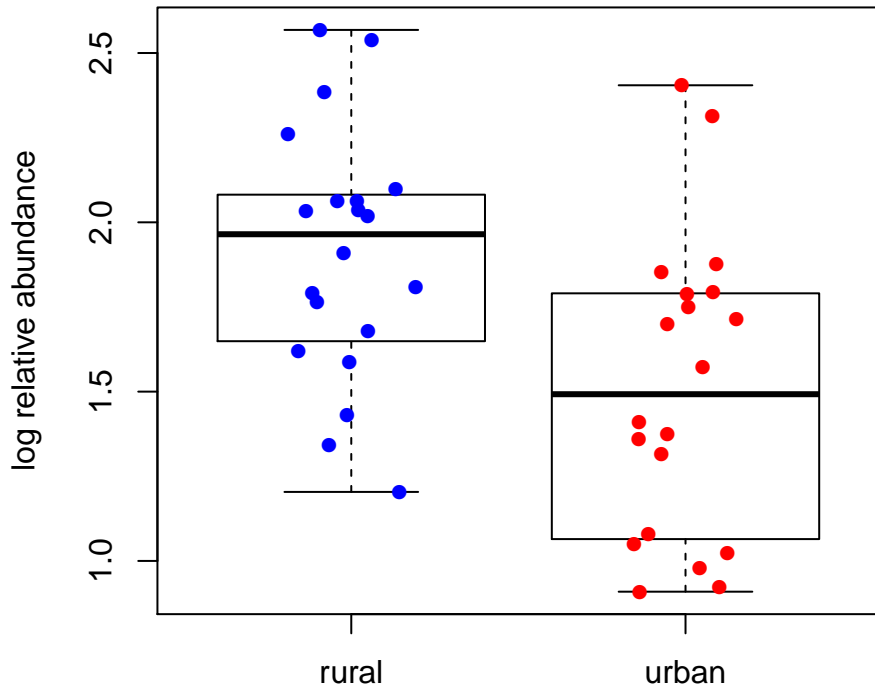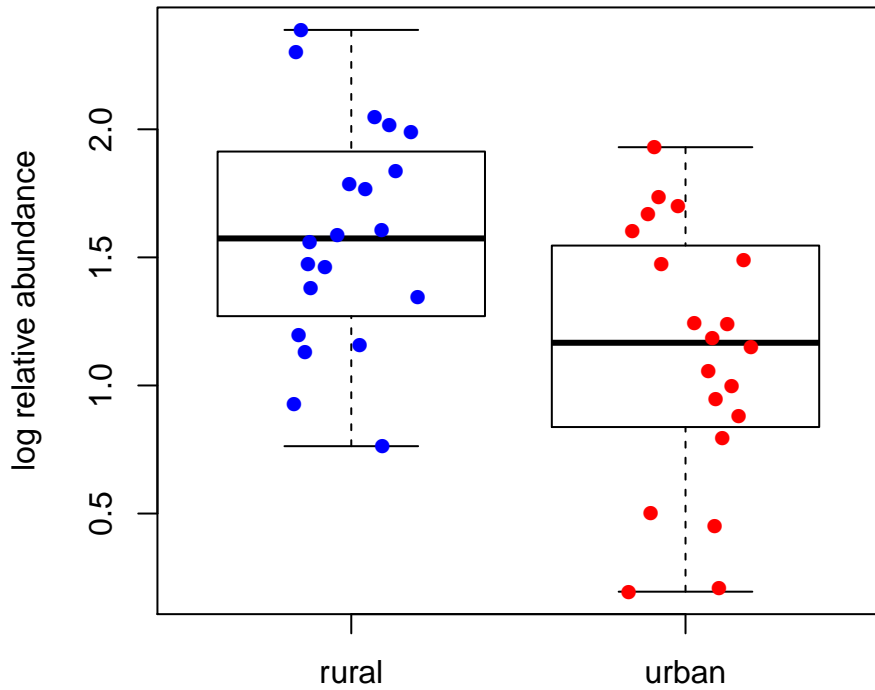**pAdjRuralUrban= 0.0249**
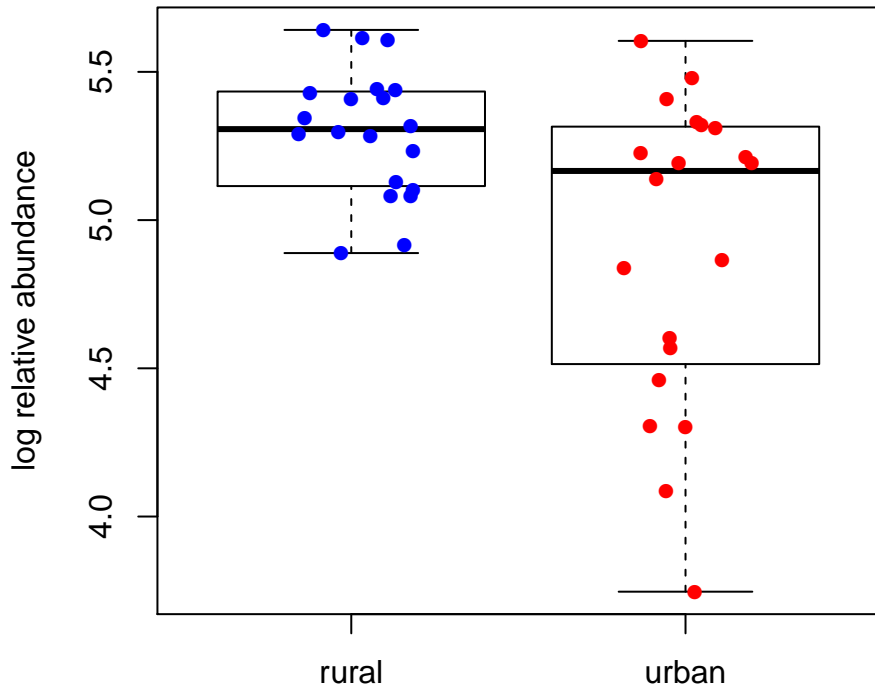
WGS family: Acidimicrobiaceae
pAdjRuralUrban= 0.0249

WGS family: Paenibacillaceae
pAdjRuralUrban= 0.0269
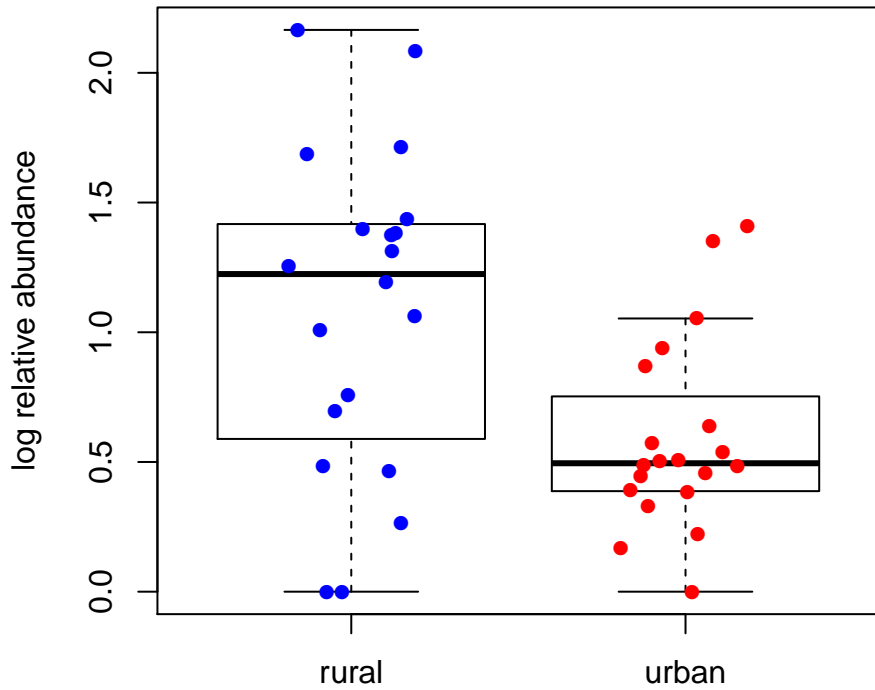
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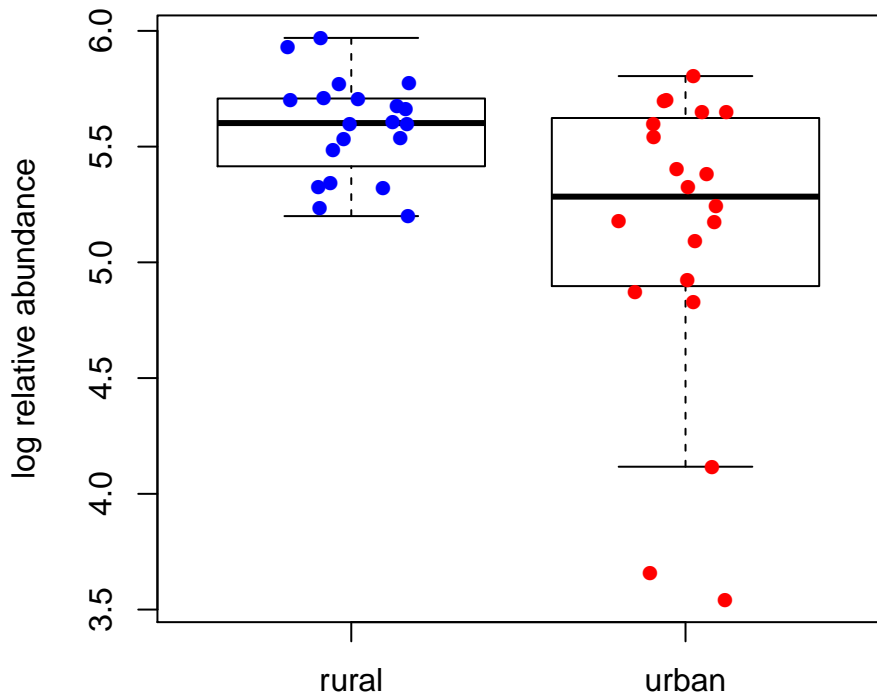
WGS family: Nitrosomonadaceae
pAdjRuralUrban= 0.027

WGS family: Peptostreptococcaceae
pAdjRuralUrban= 0.027
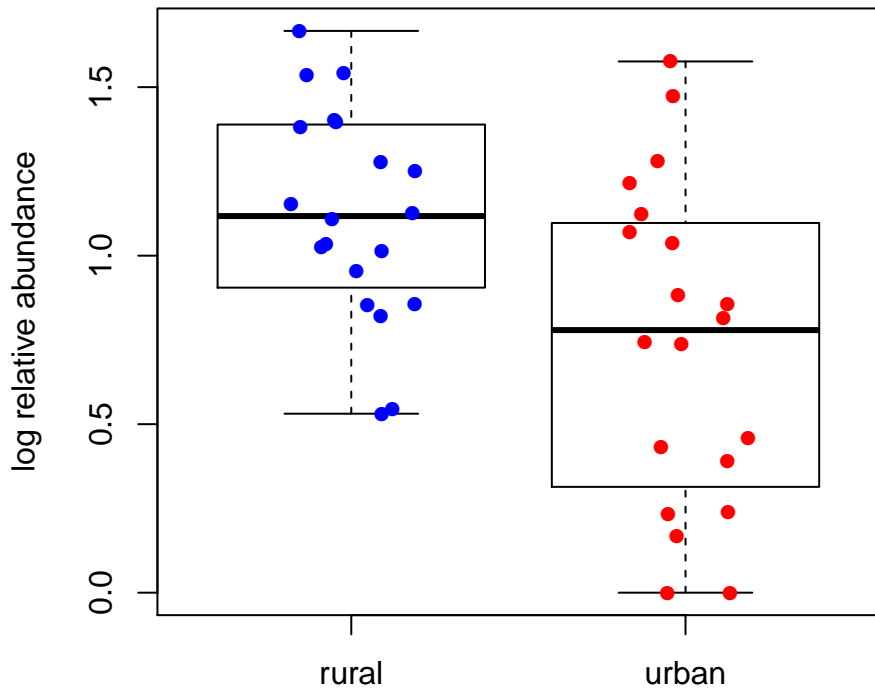
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pAdjRuralUrban= 0.027
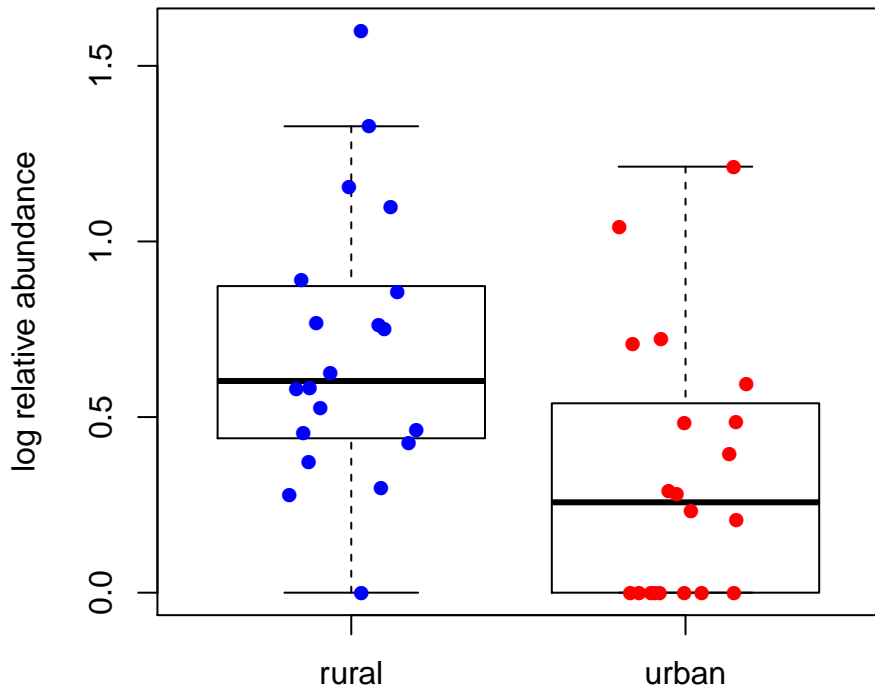
WGS family: Erythrobacteraceae
pAdjRuralUrban= 0.027

WGS family: Burkholderiaceae
pAdjRuralUrban= 0.027

WGS family: Desulfovibrionaceae
pAdjRuralUrban= 0.027
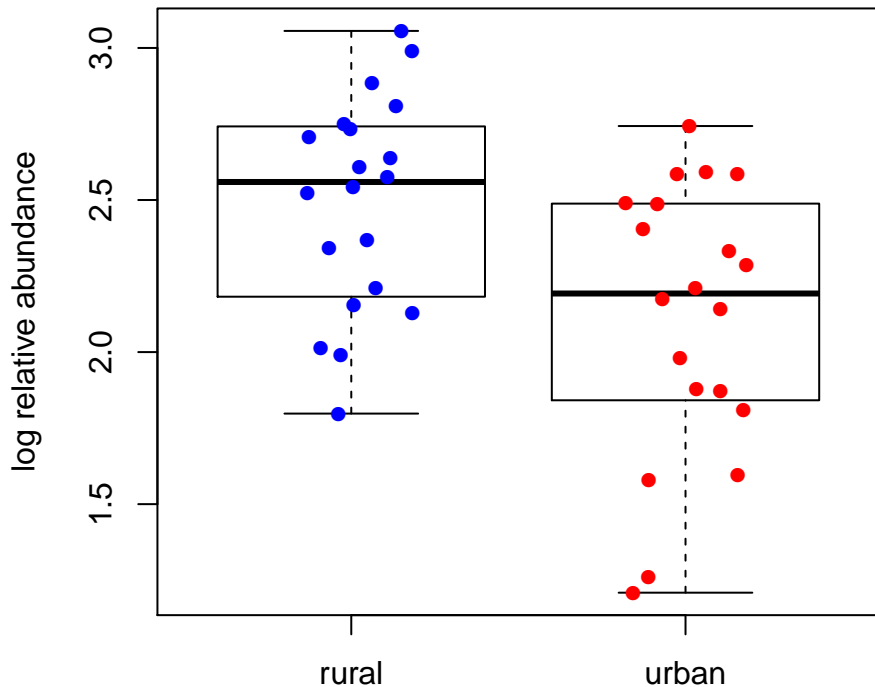
WGS family: Amoebophilaceae
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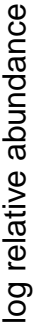
WGS family: Entomoplasmataceae
pAdjRuralUrban= 0.0282

WGS family: Micrococcaceae
pAdjRuralUrban= 0.0293

WGS family: Brachyspiraceae
pAdjRuralUrban= 0.0293

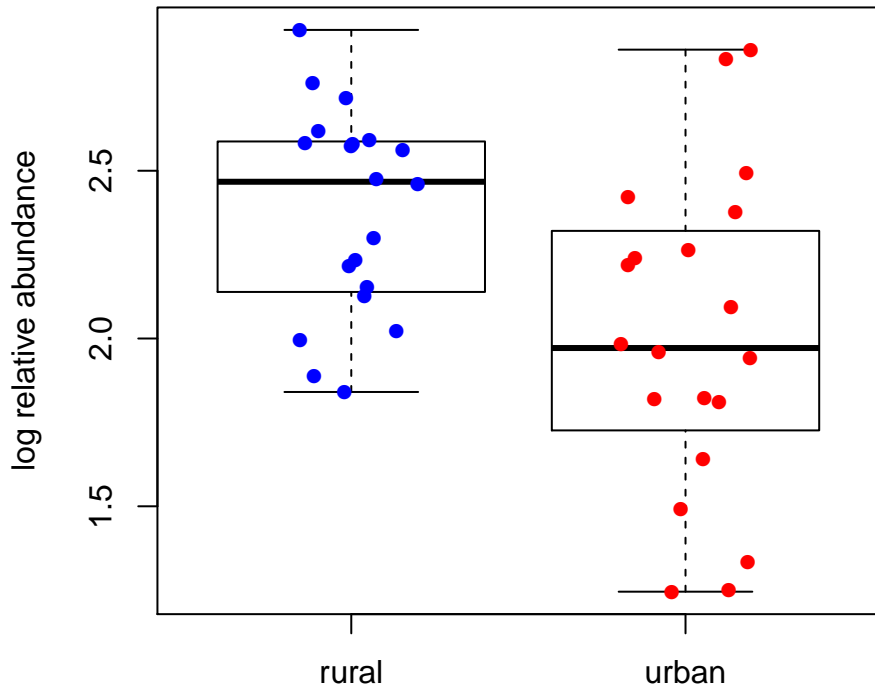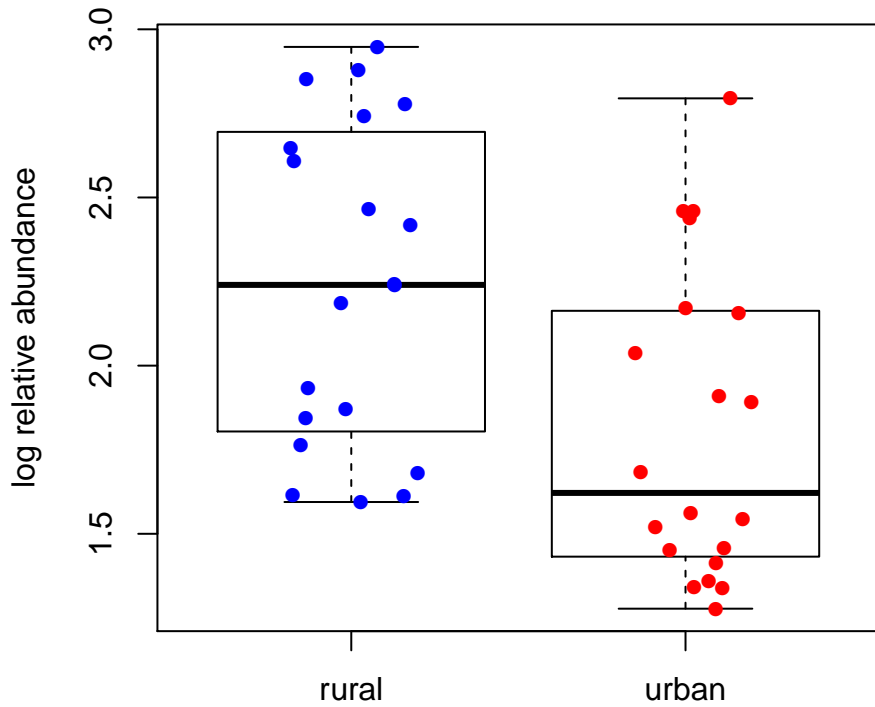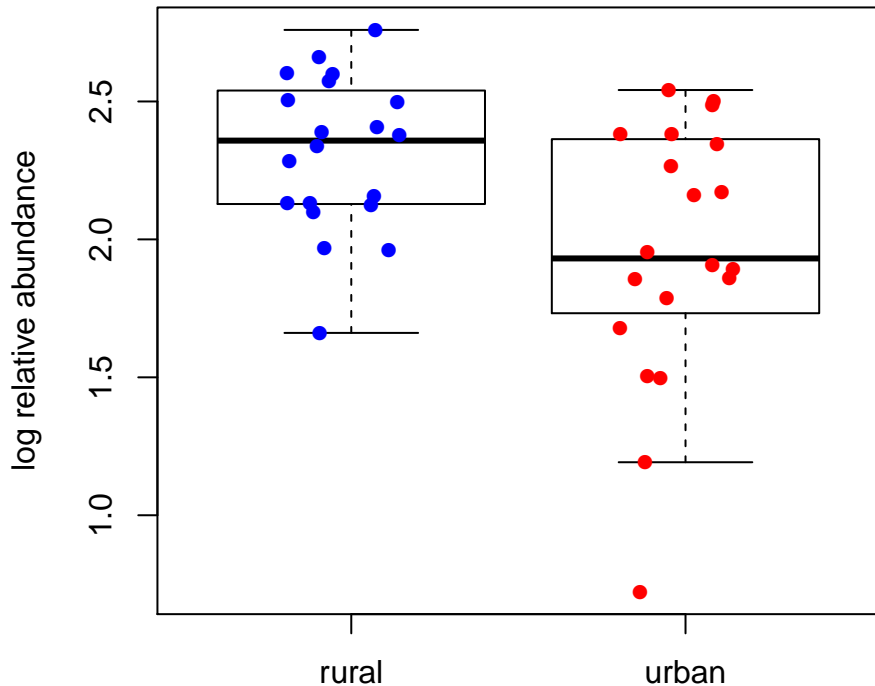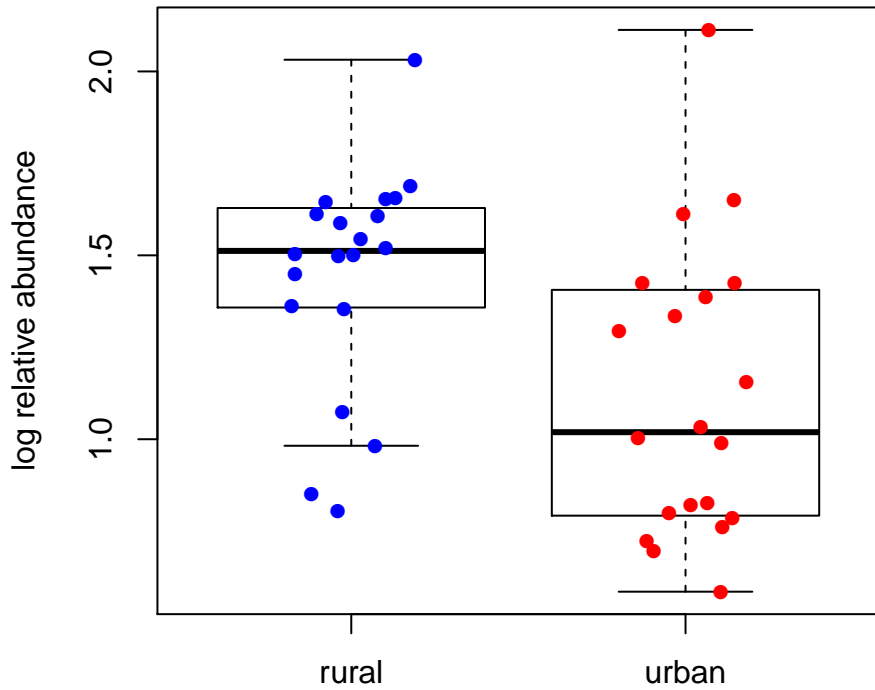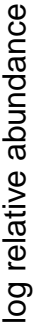**WGS family: Alicyclobacillaceae**
pAdjRuralUrban= 0.0293

WGS family: Acidithiobacillaceae
pAdjRuralUrban= 0.0315
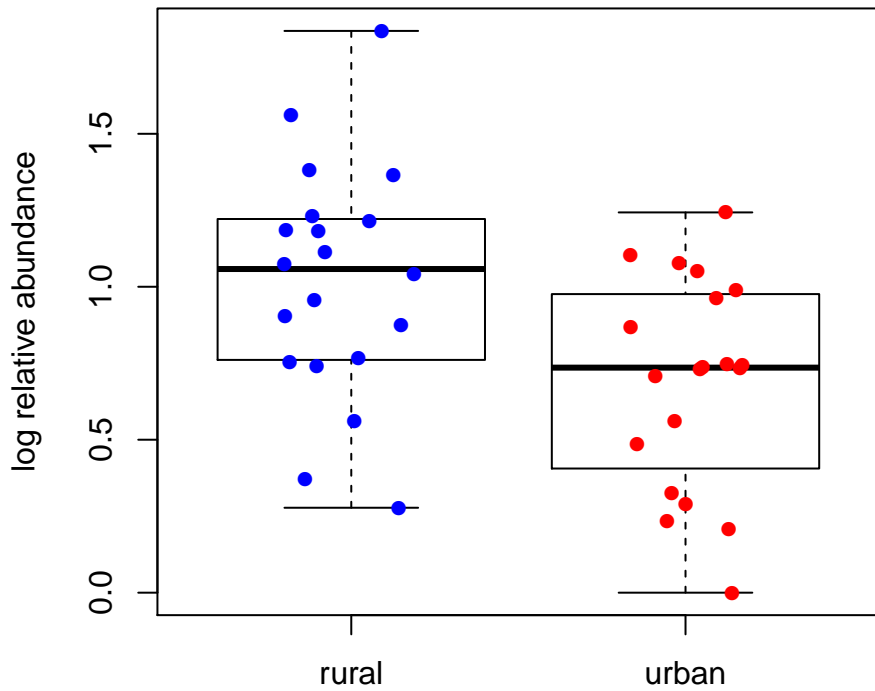
WGS family: Acidaminococcaceae
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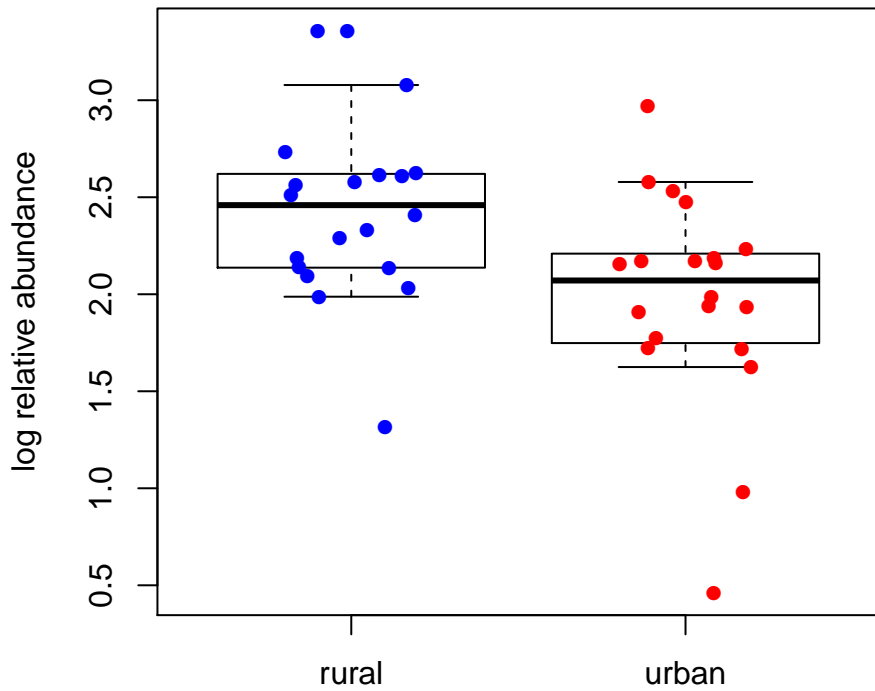
WGS family: Rhodospirillaceae
pAdjRuralUrban= 0.0341
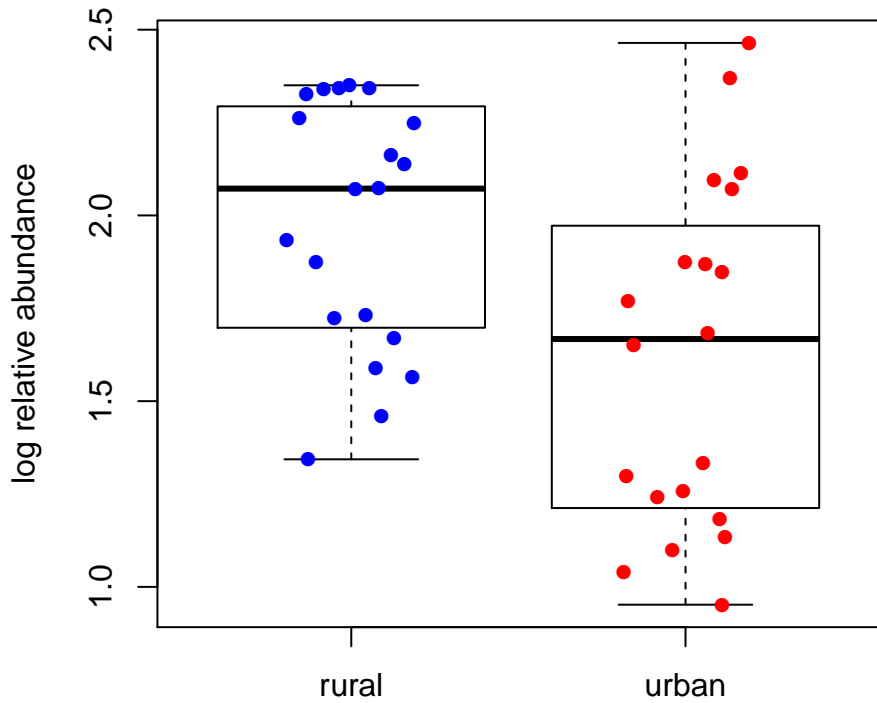
WGS family: Gordoniaceae
pAdjRuralUrban= 0.0344

WGS family: Moraxellaceae
pAdjRuralUrban= 0.0344
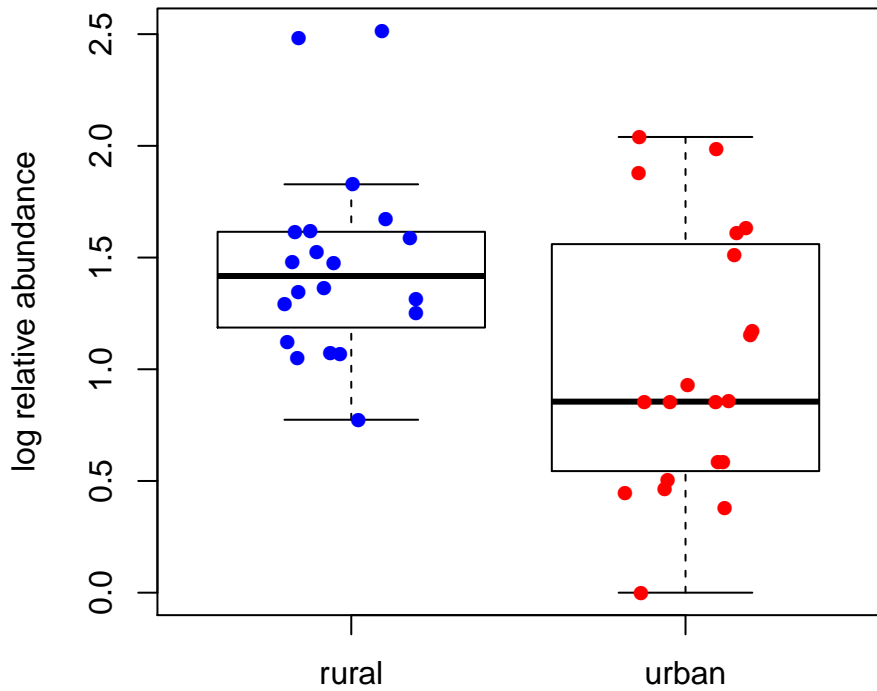
WGS family: Actinomycetaceae
pAdjRuralUrban= 0.039

WGS family: Halobacteroidaceae
pAdjRuralUrban= 0.039
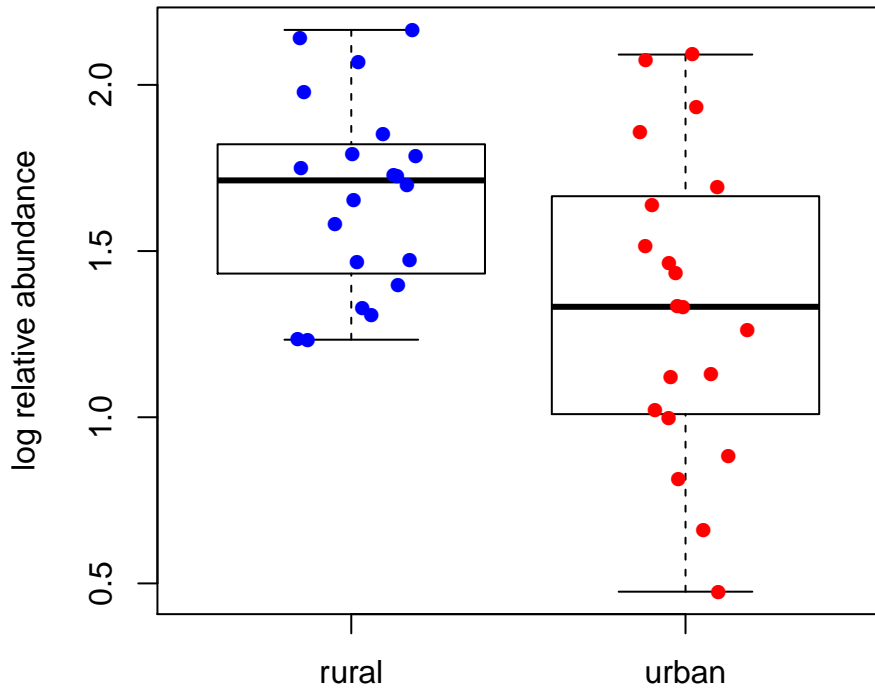
WGS family: Deinococcaceae
pAdjRuralUrban= 0.039

WGS family: Polyangiaceae
pAdjRuralUrban= 0.039

WGS family: Xanthobacteraceae
pAdjRuralUrban= 0.039
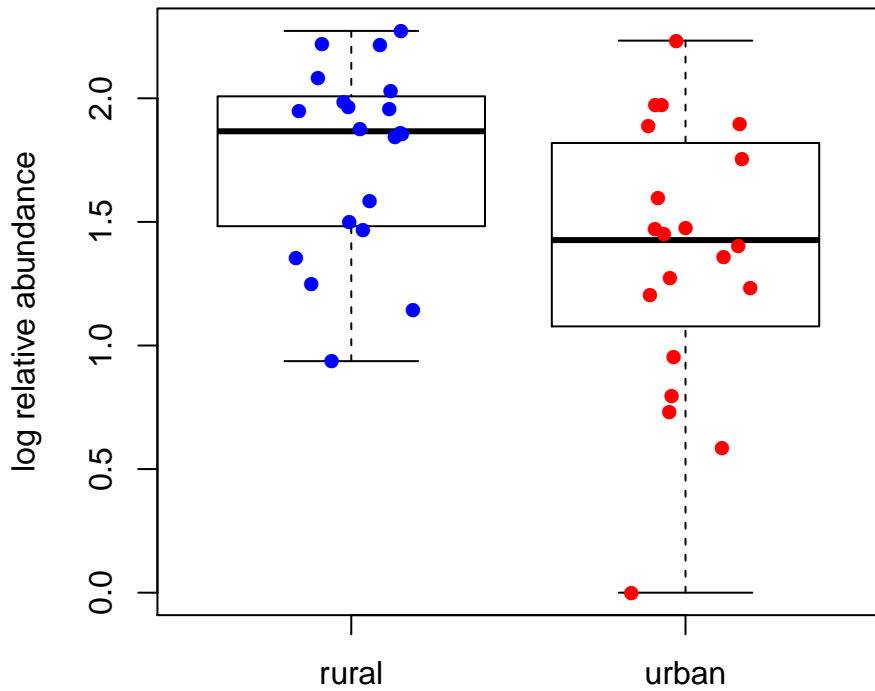
WGS family: Mycoplasmataceae
pAdjRuralUrban= 0.039

WGS family: Sphingobacteriaceae
pAdjRuralUrban= 0.039
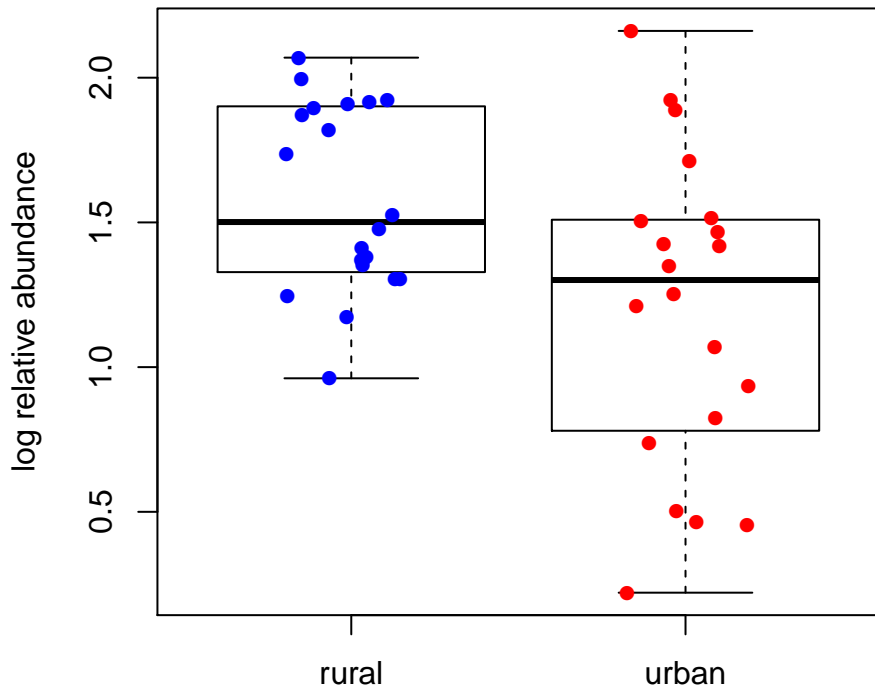
WGS family: Cryomorphaceae
pAdjRuralUrban= 0.039
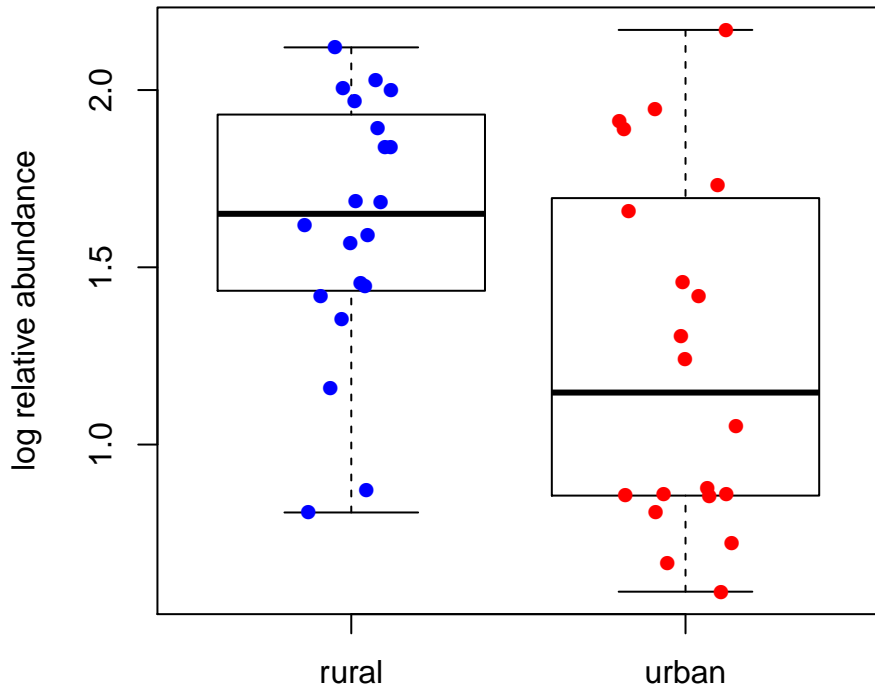
WGS family: Nocardiopsaceae
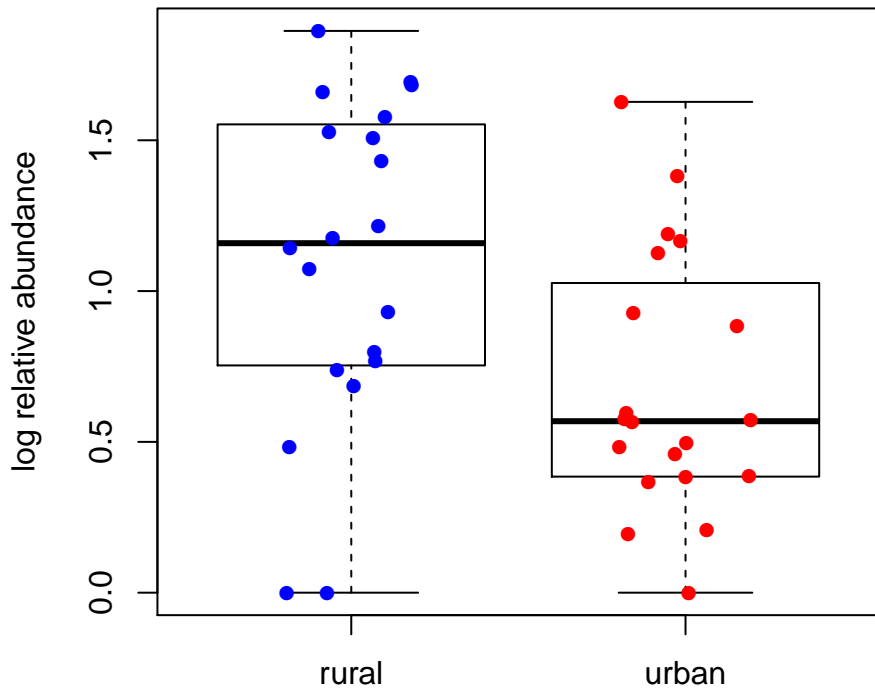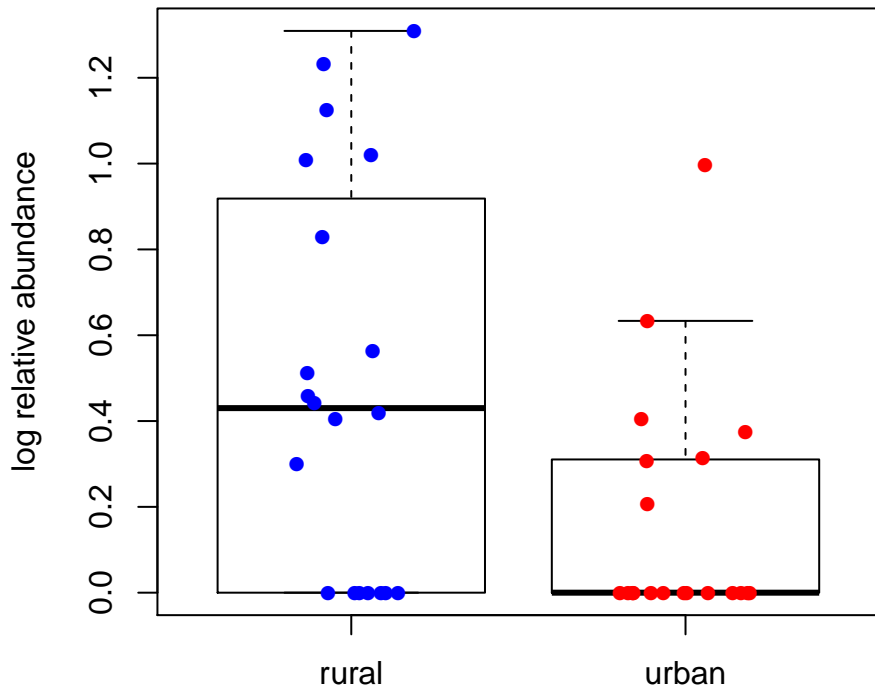**pAdjRuralUrban= 0.039**

WGS family: Prevotellaceae
pAdjRuralUrban= 0.0393
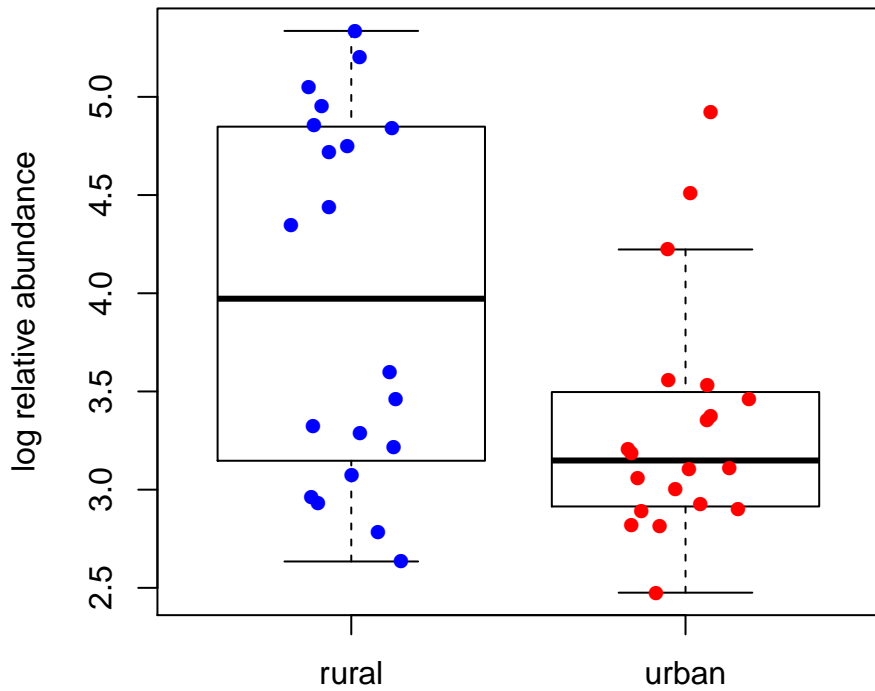
WGS family: Methylocystaceae
pAdjRuralUrban= 0.0398

WGS family: Pasteurellaceae
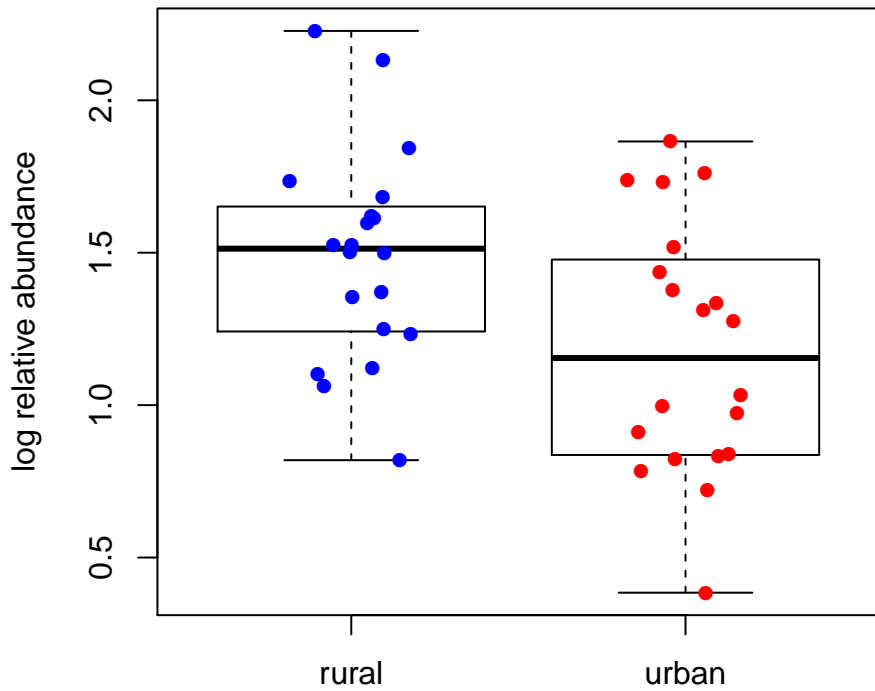**pAdjRuralUrban= 0.0448**

WGS family: Methylobacteriaceae
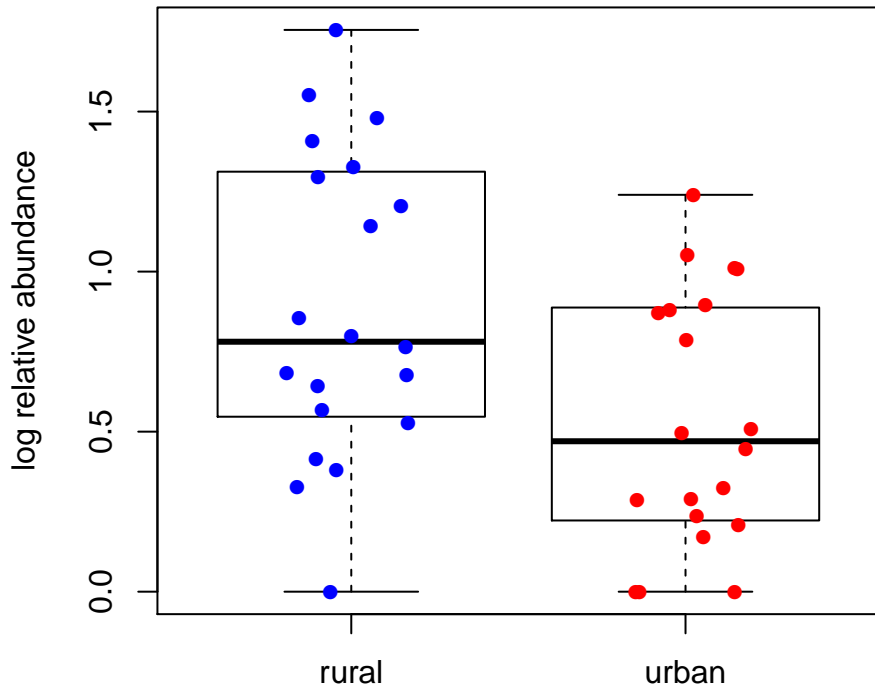**pAdjRuralUrban= 0.0448**
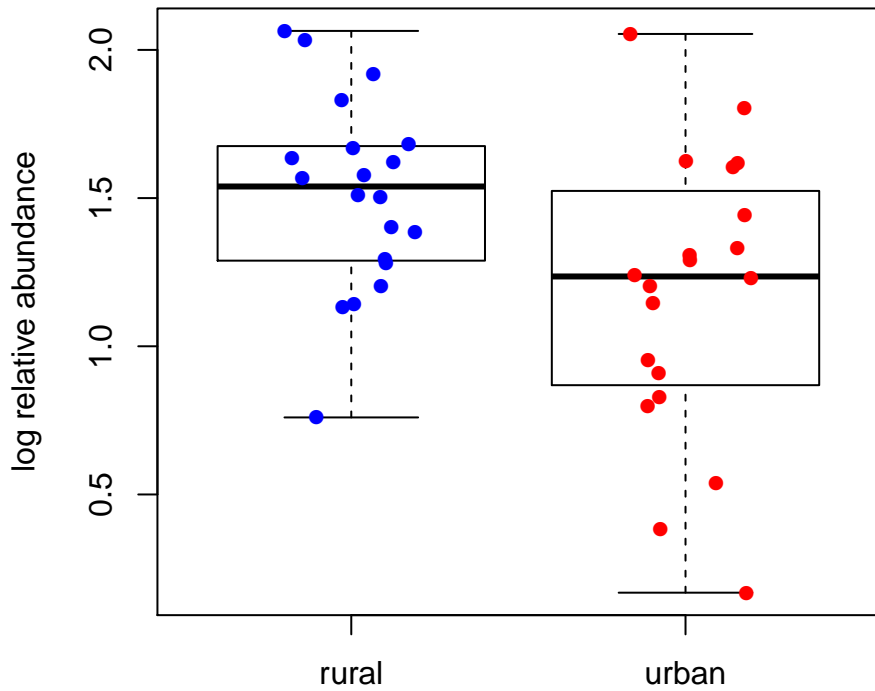
WGS family: Caulobacteraceae
pAdjRuralUrban= 0.049
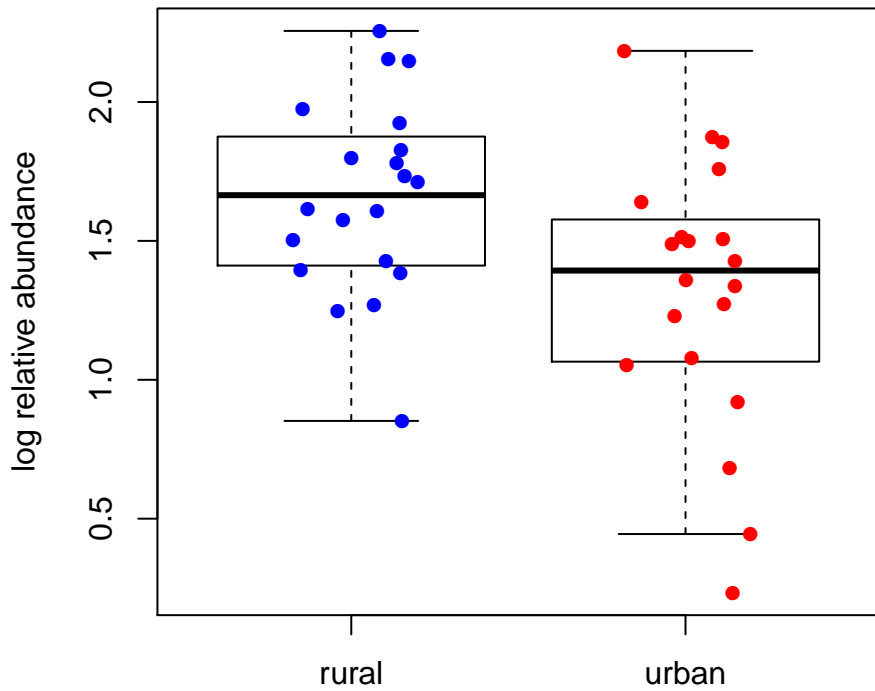
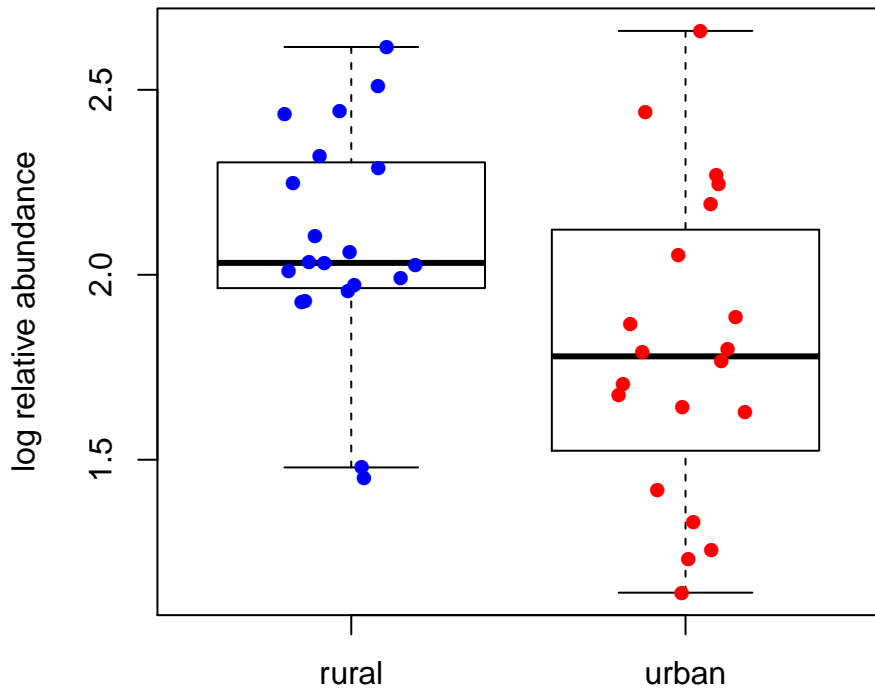**WGS family: Chromobacteriaceae**
pAdjRuralUrban= 0.0491

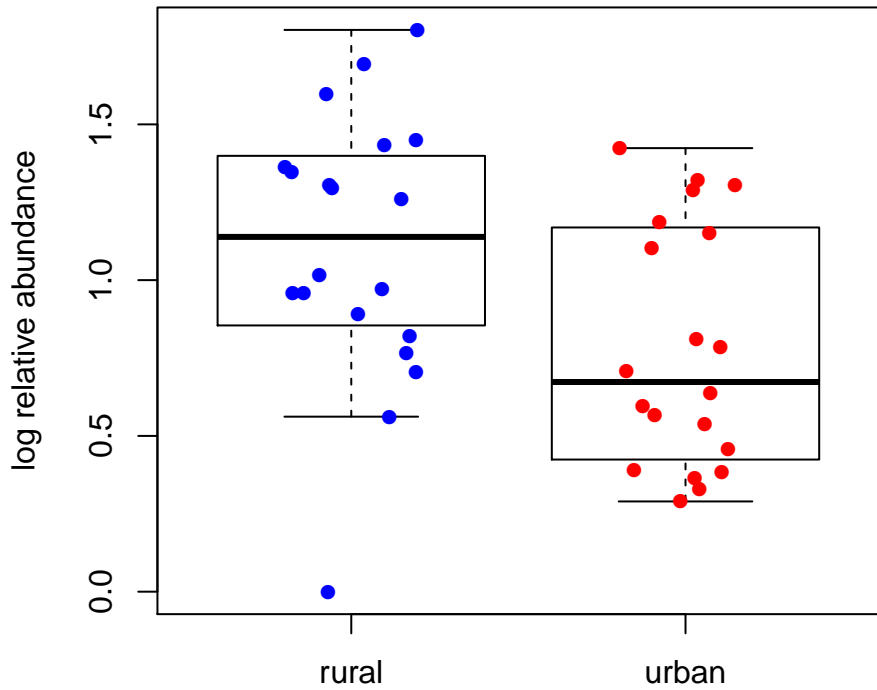**WGS family: Blattabacteriaceae**
pAdjRuralUrban= 0.0491

WGS family: Rhizobiaceae
pAdjRuralUrban= 0.0498

WGS family: Phyllobacteriaceae
pAdjRuralUrban= 0.0503

log relative abundance

rural   urban

WGS family: Dehalococcoidaceae
pAdjRuralUrban= 0.0511
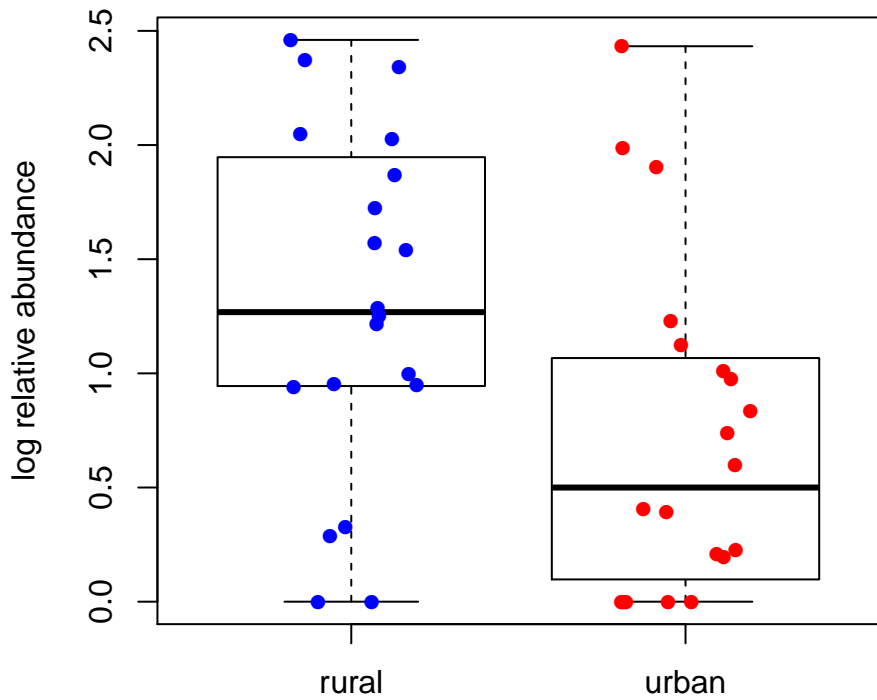
WGS family: Flammeovirgaceae
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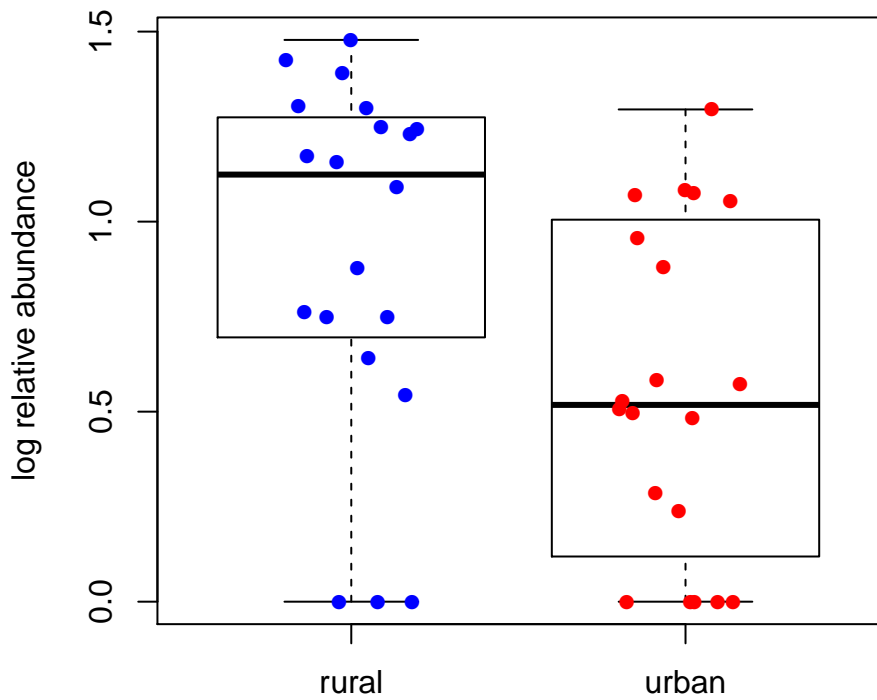
WGS family: Fibrobacteraceae
pAdjRuralUrban= 0.0511

WGS family: Francisellaceae
pAdjRuralUrban= 0.0511
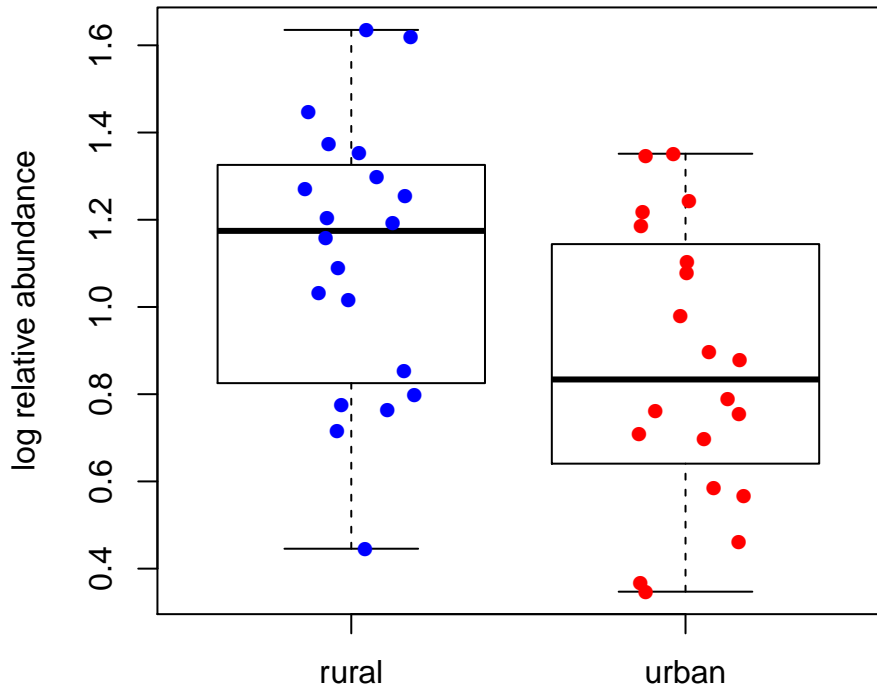
WGS family: Rhodobacteraceae
pAdjRuralUrban= 0.0511

WGS family: Dermabacteraceae
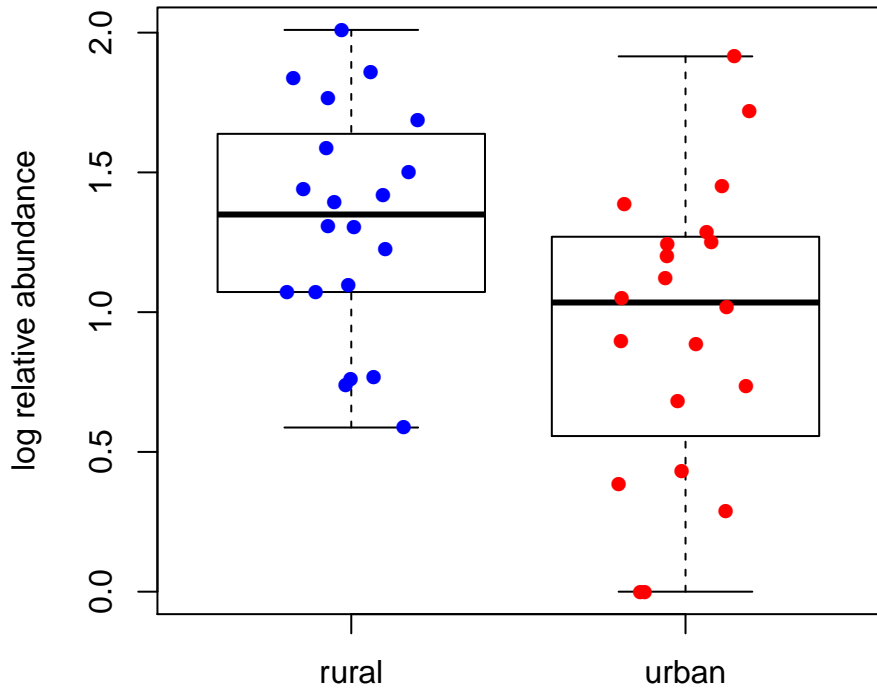**pAdjRuralUrban= 0.0517**

log relative abundance
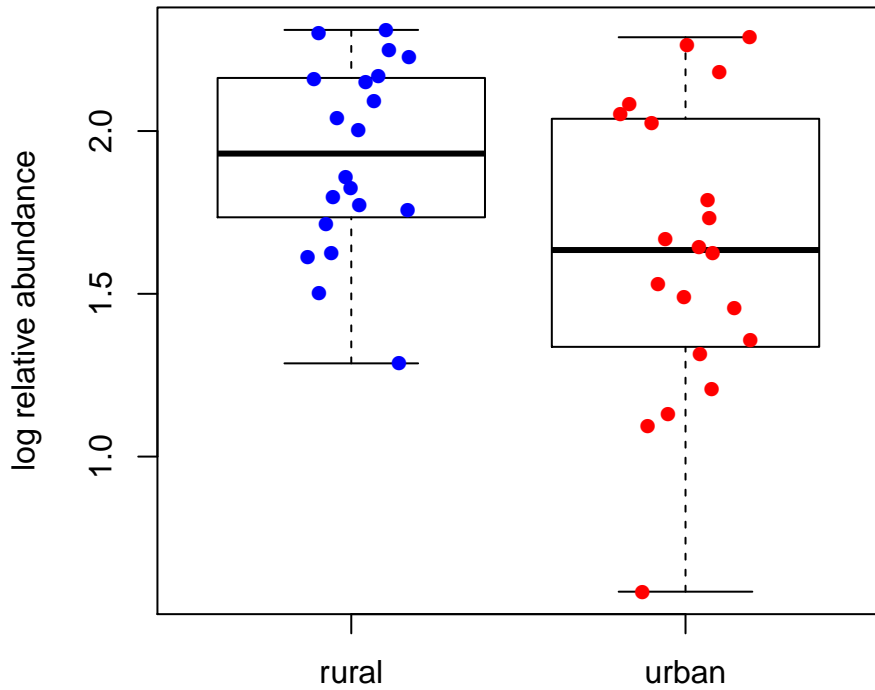
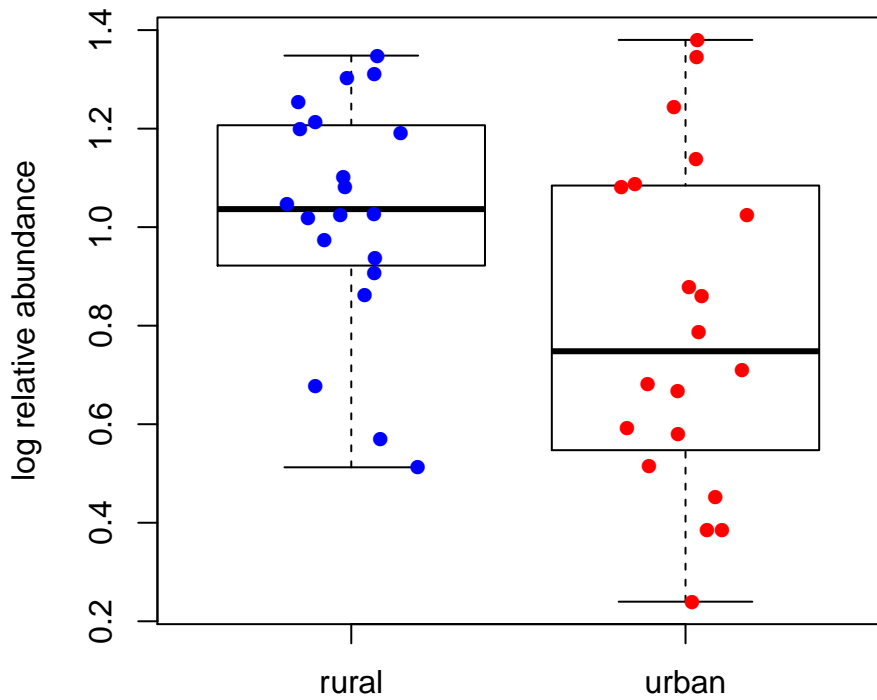rural   urban

WGS family: Solibacteraceae
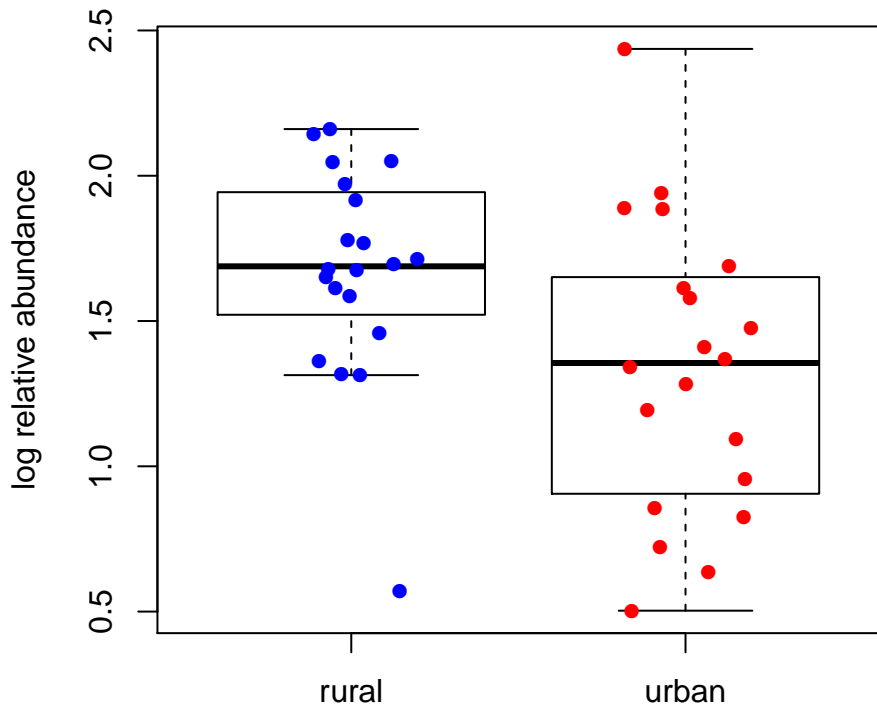**pAdjRuralUrban= 0.0518**
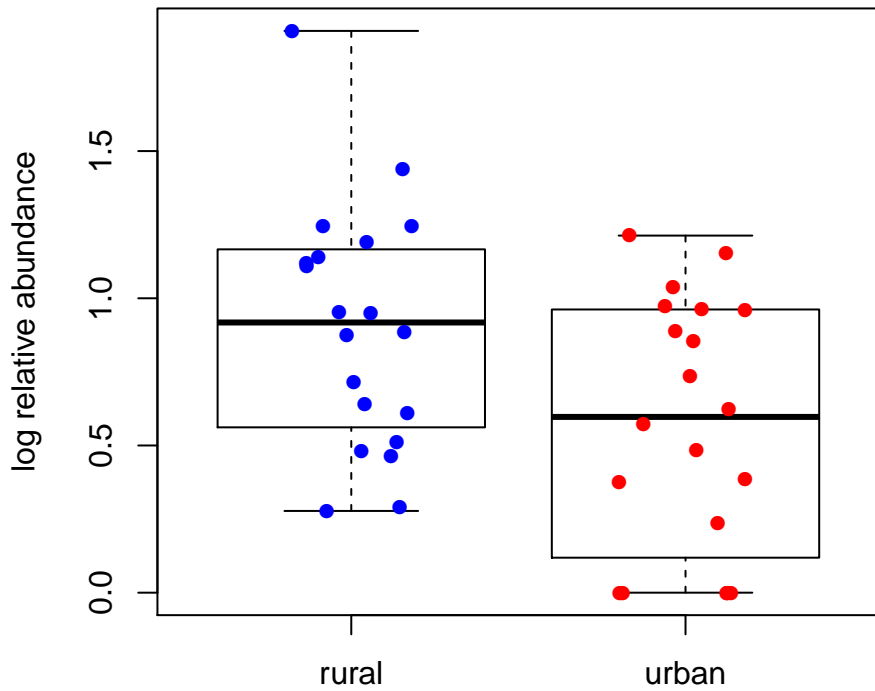
WGS family: Micromonosporaceae
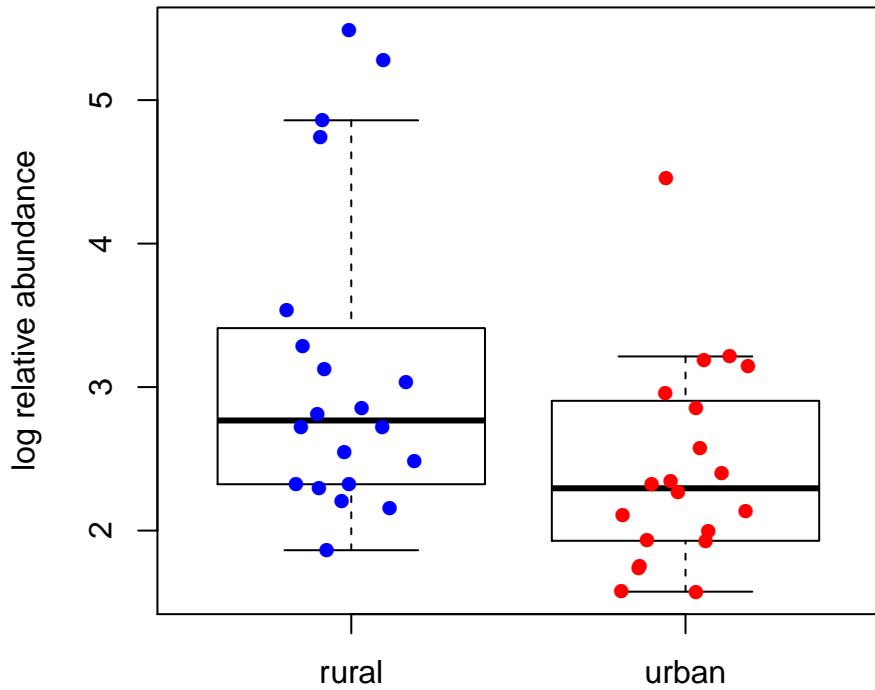**pAdjRuralUrban= 0.0527**
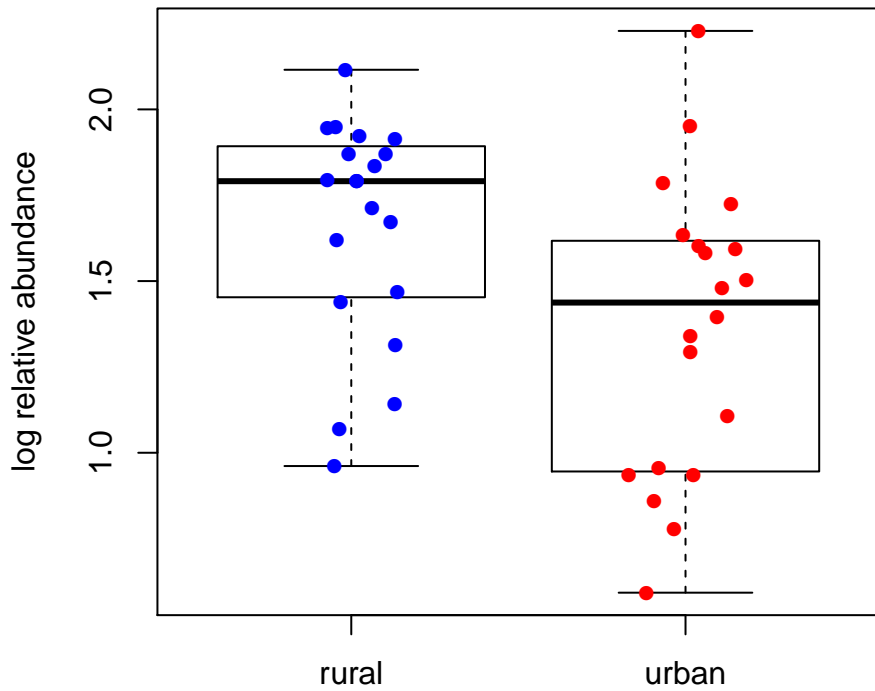
WGS family: Methylococcaceae
pAdjRuralUrban= 0.0535

WGS family: Ectothiorhodospiraceae
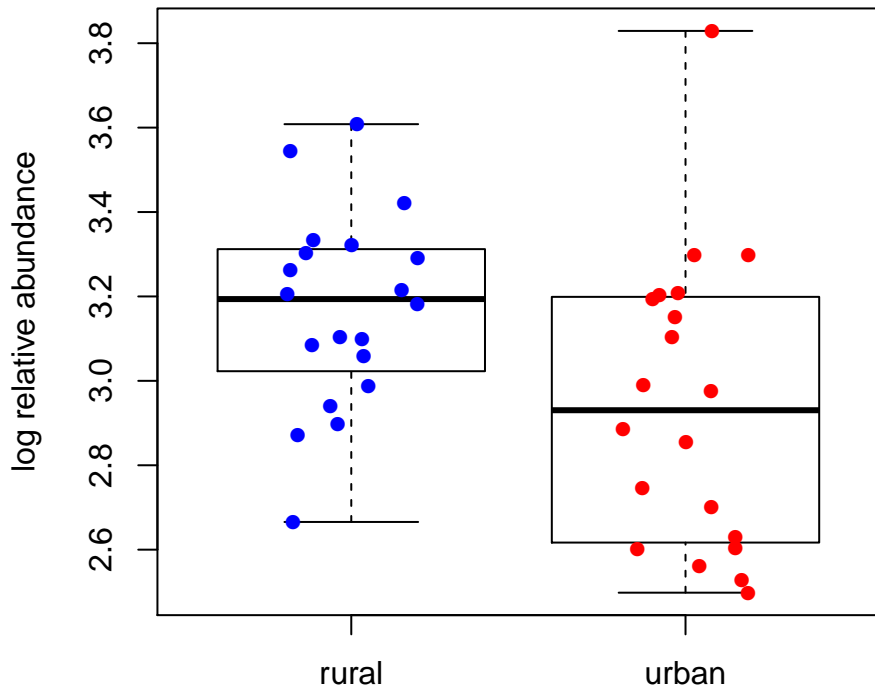**pAdjRuralUrban= 0.0543**

WGS family: Lactobacillaceae
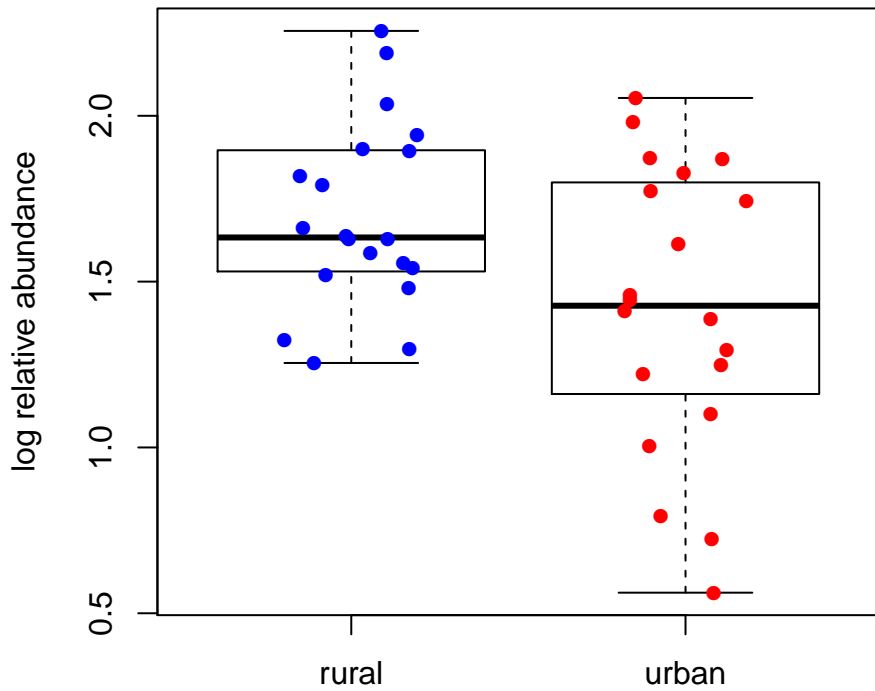**pAdjRuralUrban= 0.0543**

WGS family: Erysipelotrichaceae
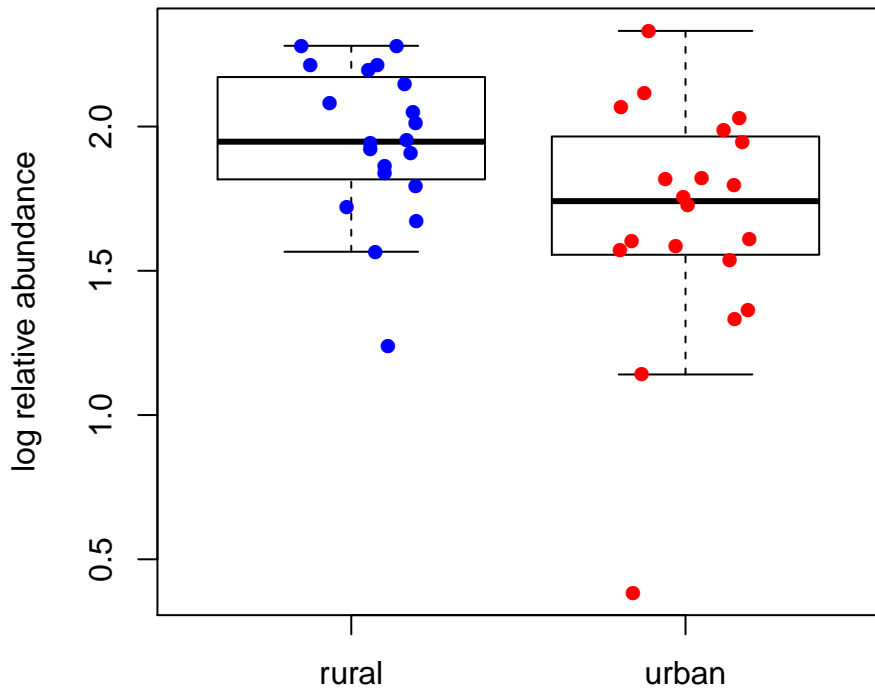**pAdjRuralUrban= 0.0543**

WGS family: Thermaceae
pAdjRuralUrban= 0.0553

WGS family: Alcaligenaceae
pAdjRuralUrban= 0.0553

WGS family: Thermotogaceae
pAdjRuralUrban= 0.0562

log relative abundance

rural   urban

WGS family: Thermoproteaceae
pAdjRuralUrban= 0.0564
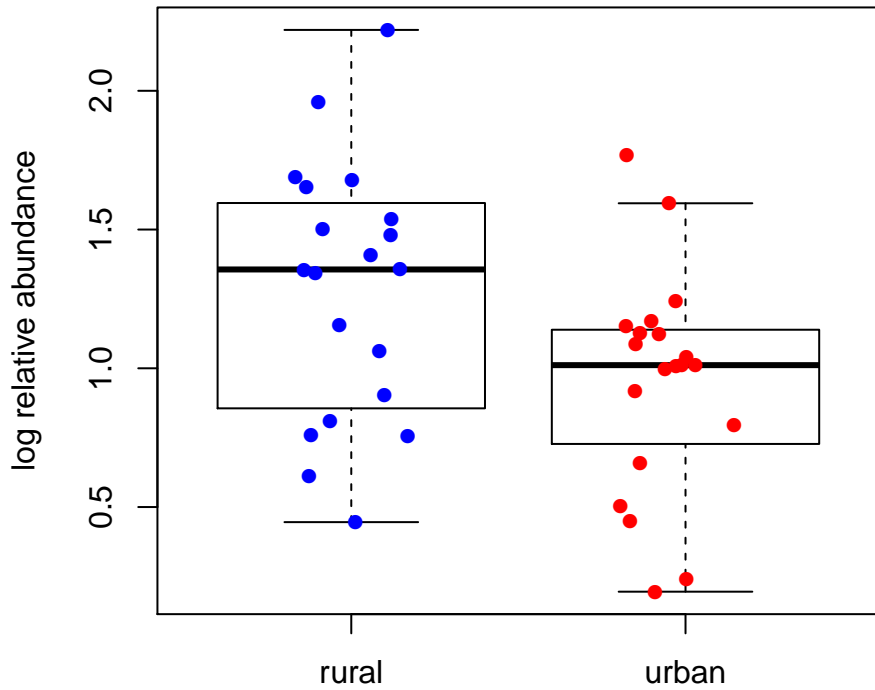
WGS family: Bifidobacteriaceae
pAdjRuralUrban= 0.0583
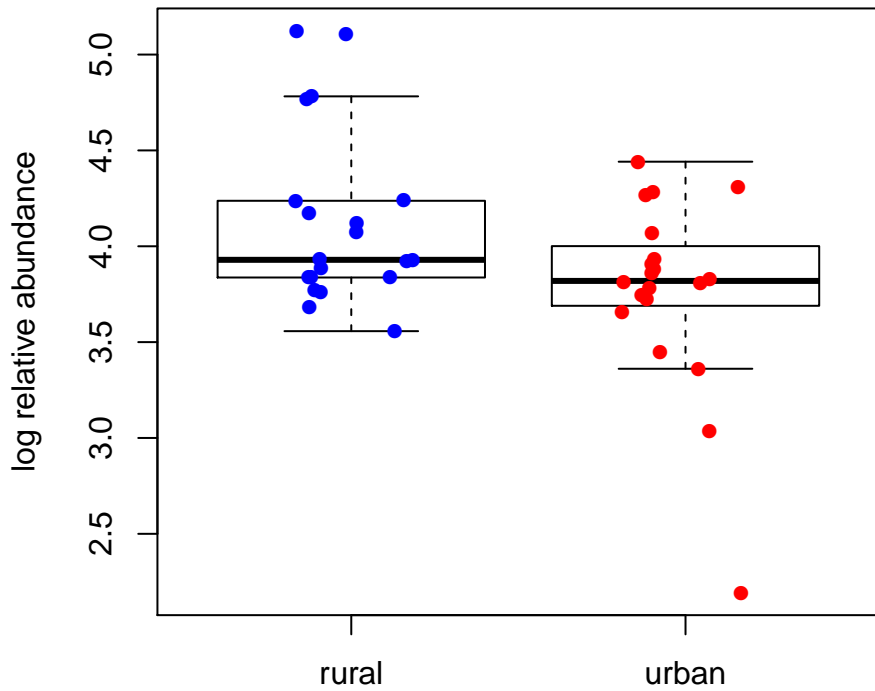
WGS family: Methanosaetaceae
pAdjRuralUrban= 0.0585

WGS family: Clostridiaceae
pAdjRuralUrban= 0.0619
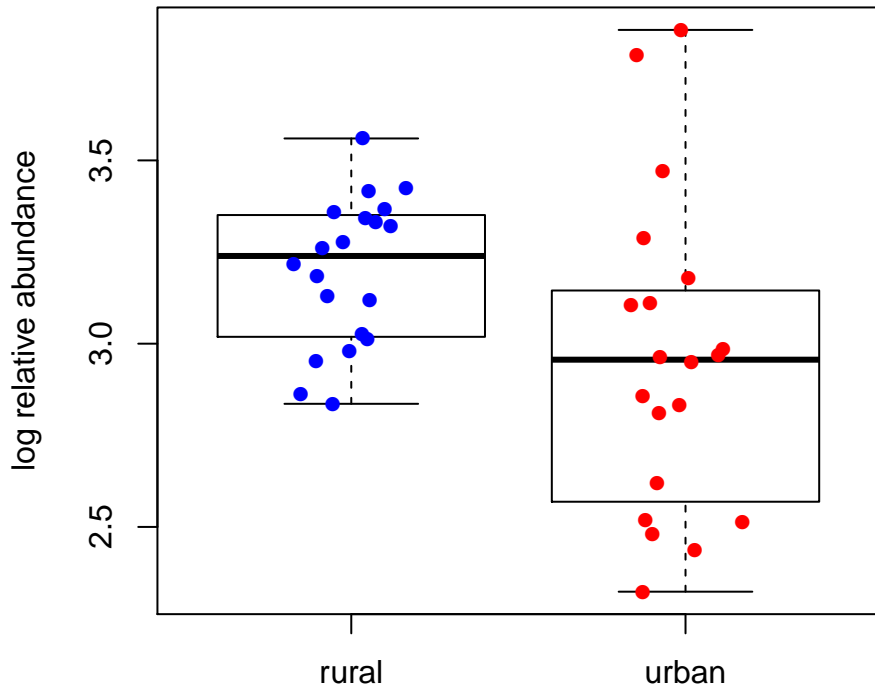
WGS family: Alteromonadaceae
pAdjRuralUrban= 0.0619

WGS family: Dermacoccaceae
pAdjRuralUrban= 0.0619

WGS family: Acetobacteraceae
pAdjRuralUrban= 0.0619

WGS family: Bdellovibrionaceae
pAdjRuralUrban= 0.0619
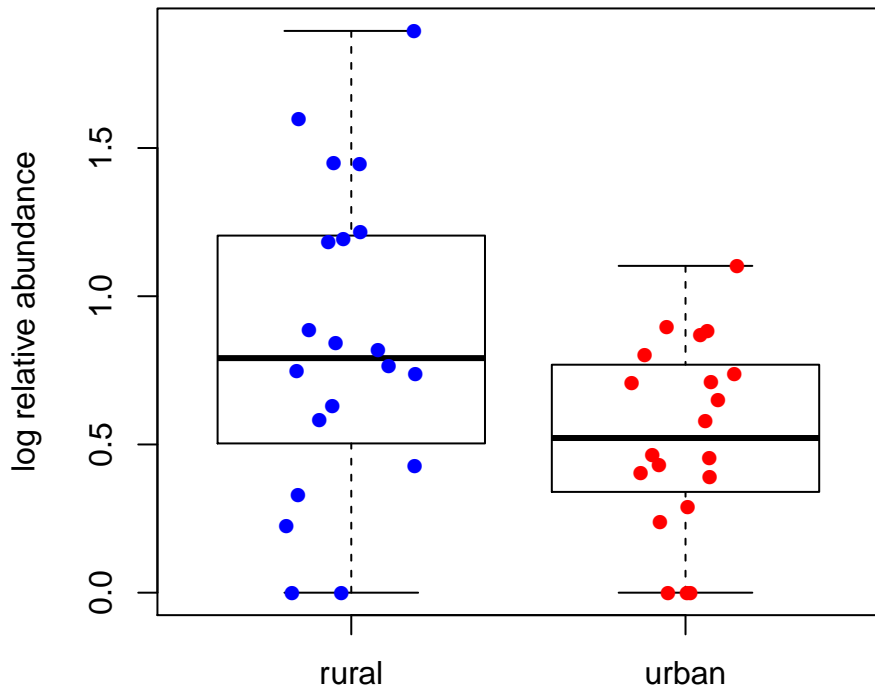
WGS family: Bartonellaceae
pAdjRuralUrban= 0.0619
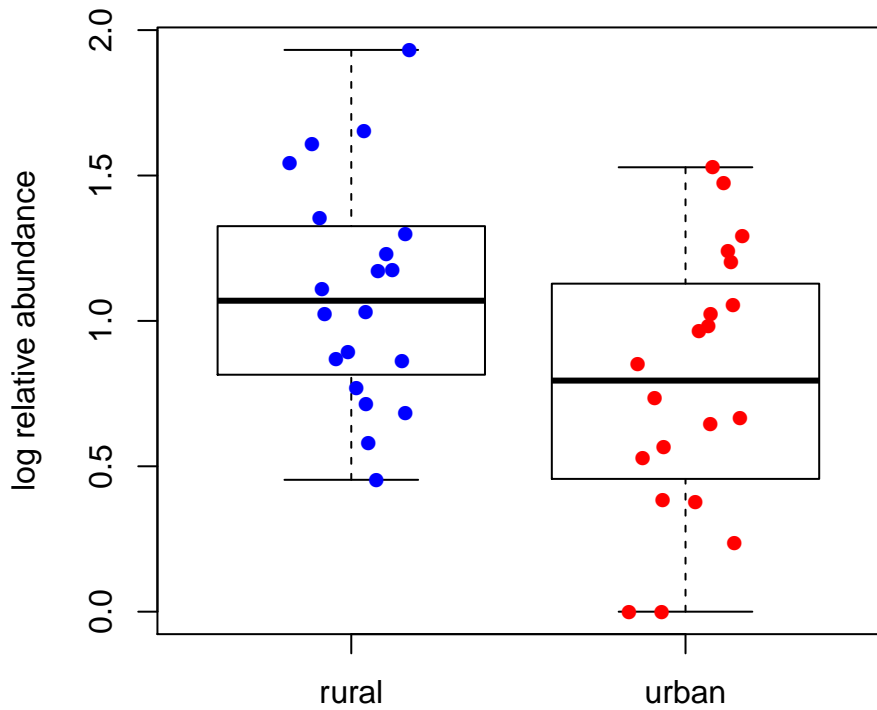
WGS family: Cyclobacteriaceae
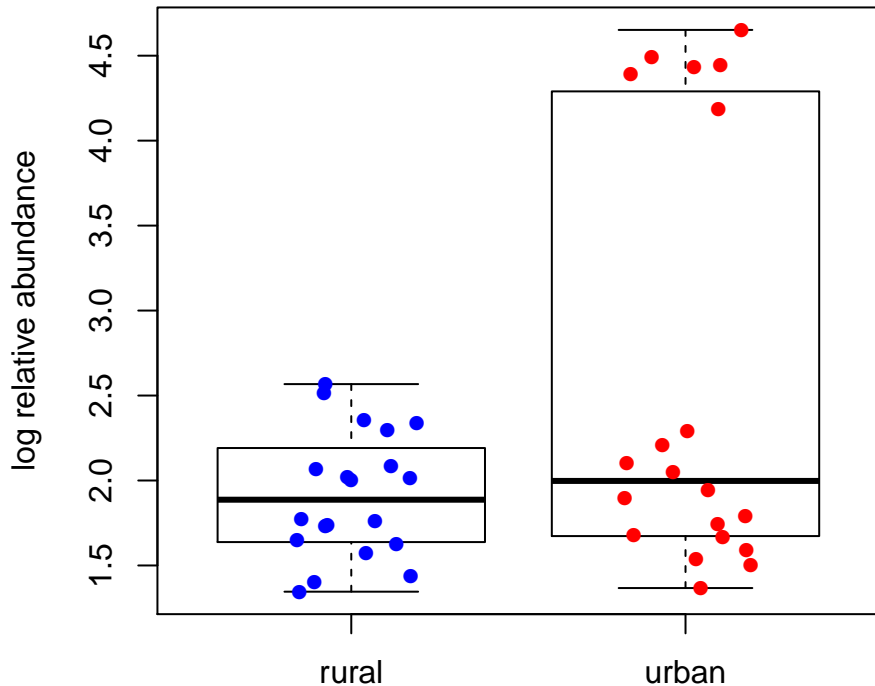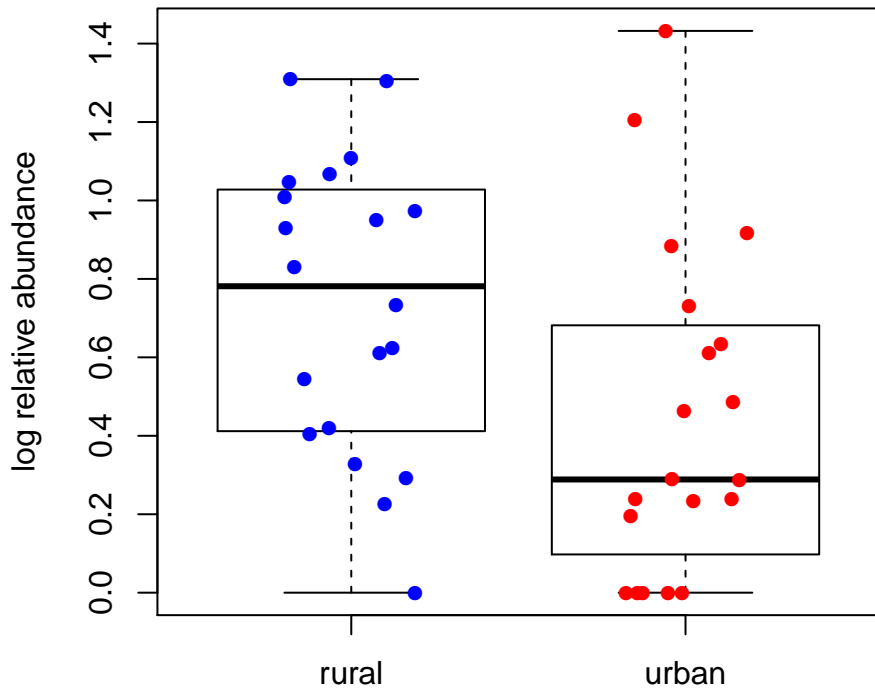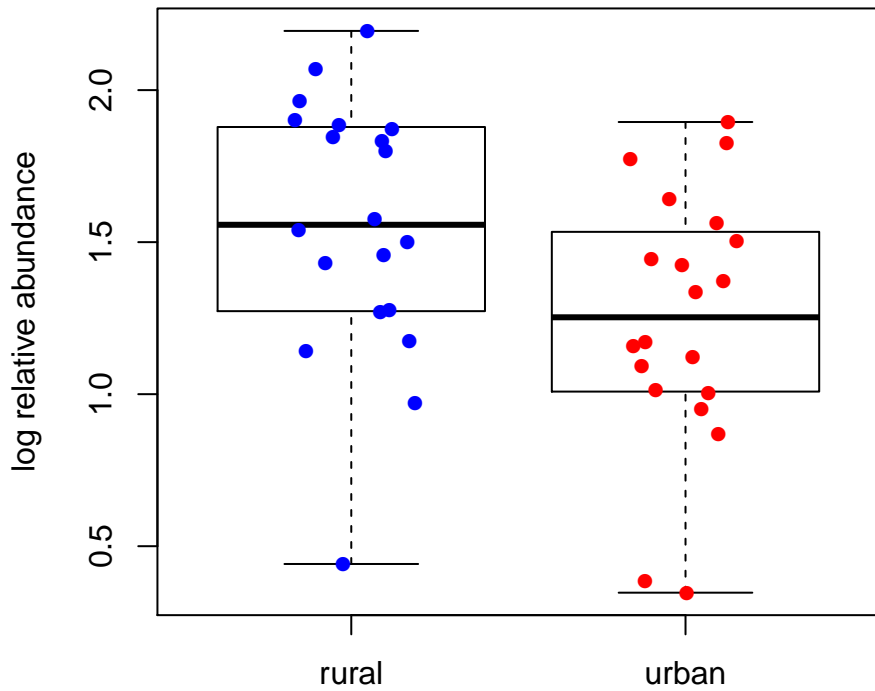**pAdjRuralUrban= 0.0652**

WGS family: Jonesiaceae
pAdjRuralUrban= 0.0708
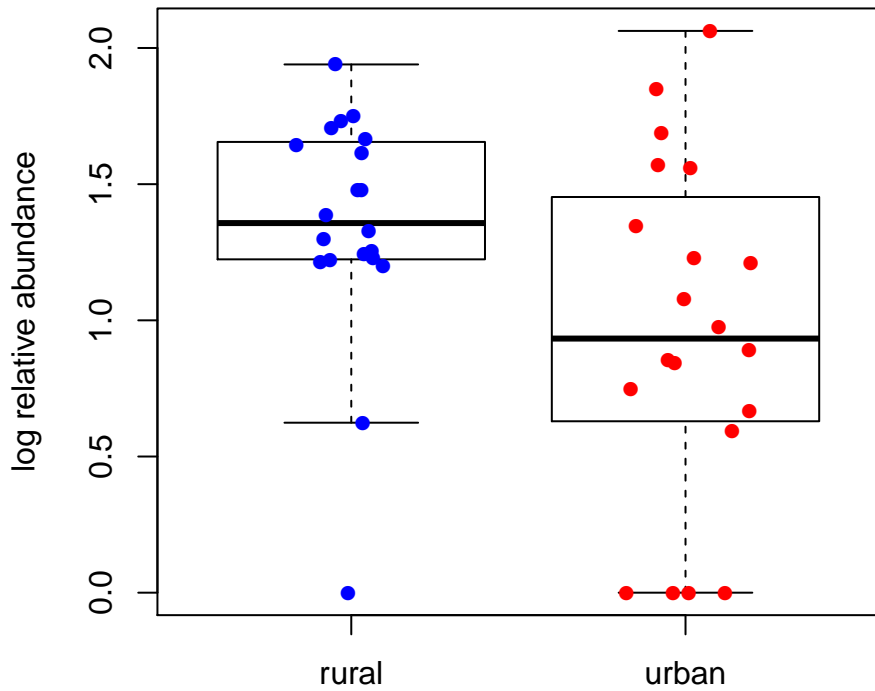
WGS family: Myxococcaceae
pAdjRuralUrban= 0.0721
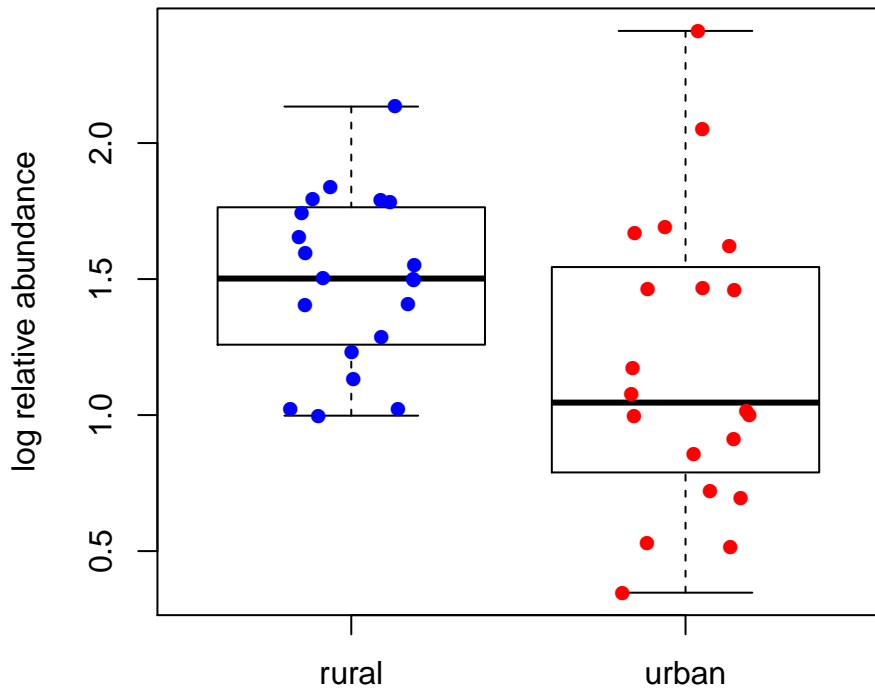
WGS family: Candidatus_Midichloriaceae
pAdjRuralUrban= 0.0721

WGS family: Aeromonadaceae
pAdjRuralUrban= 0.0721

WGS family: Aquificaceae
pAdjRuralUrban= 0.0732

WGS family: Pelobacteraceae
pAdjRuralUrban= 0.0772
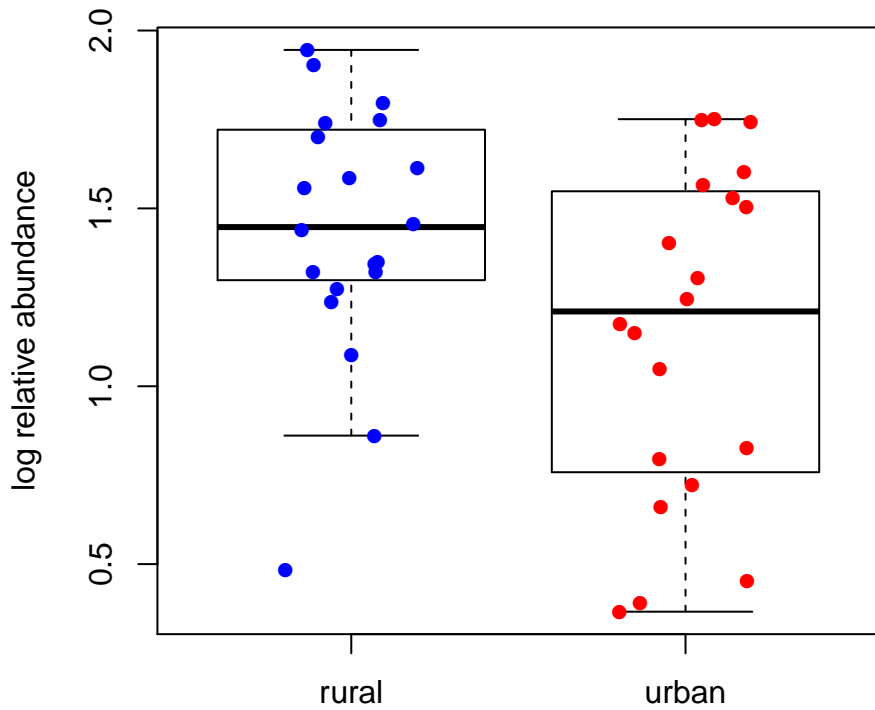
WGS family: Bacteriovoracaceae
pAdjRuralUrban= 0.0776

WGS family: Rivulariaceae
pAdjRuralUrban= 0.0776

WGS family: Synergistaceae
pAdjRuralUrban= 0.079
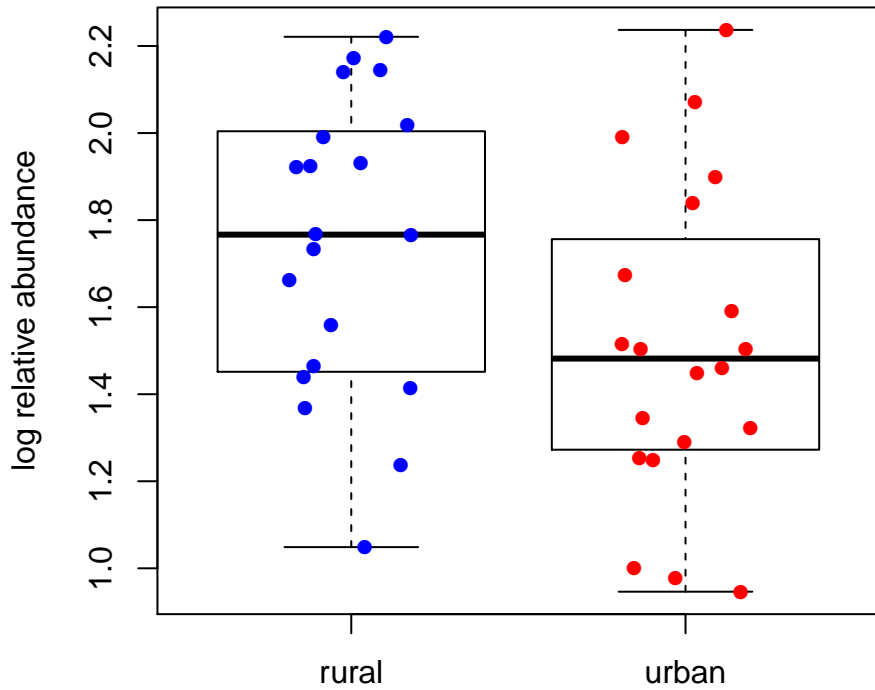
WGS family: Flavobacteriaceae
pAdjRuralUrban= 0.081
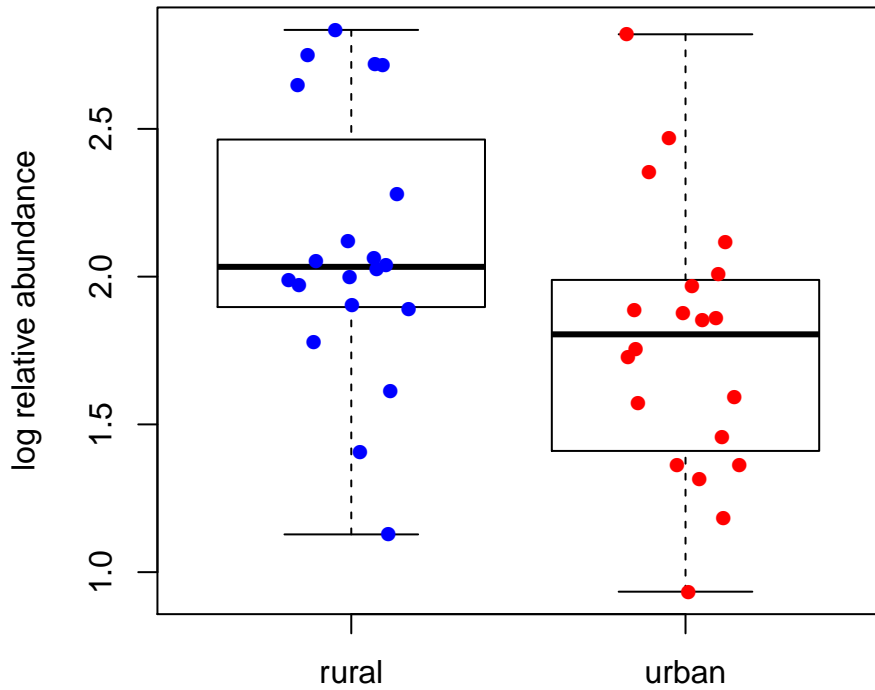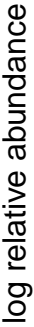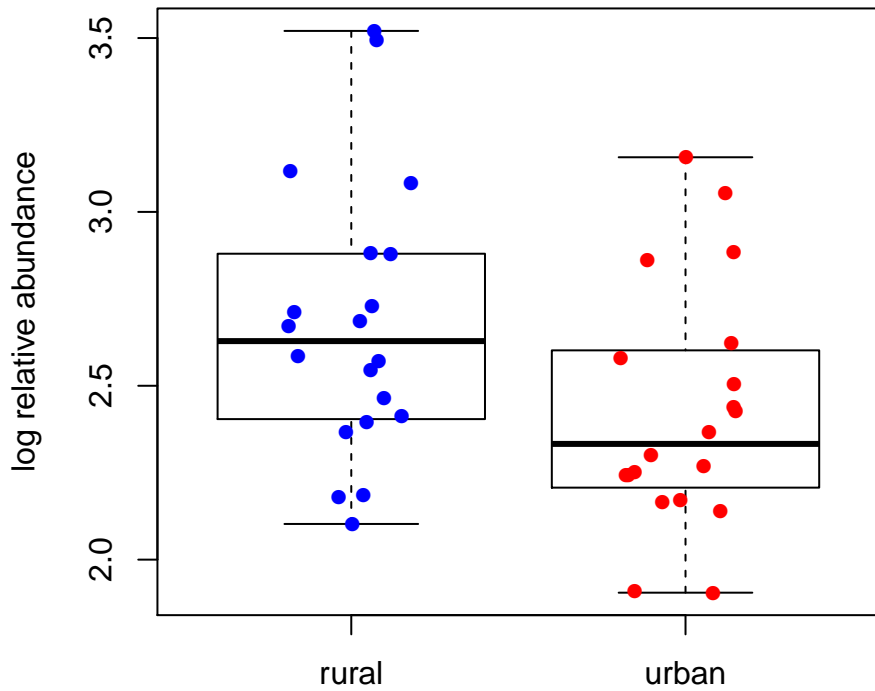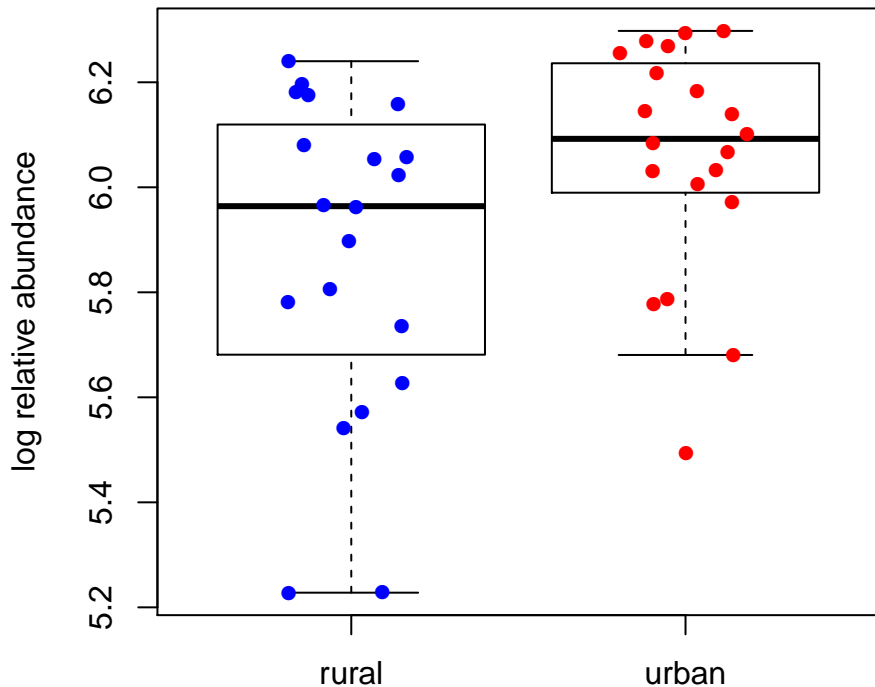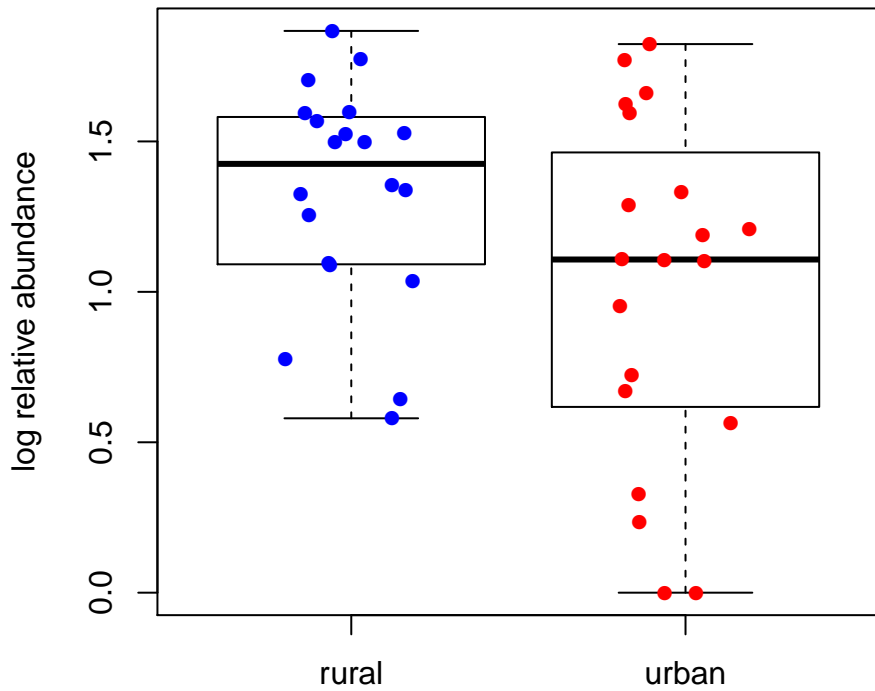
WGS family: Bacteroidaceae
pAdjRuralUrban= 0.0854

WGS family: Hyphomicrobiaceae
pAdjRuralUrban= 0.0894

WGS family: Tsukamurellaceae
pAdjRuralUrban= 0.0894

WGS family: Gemmatimonadaceae
pAdjRuralUrban= 0.0908
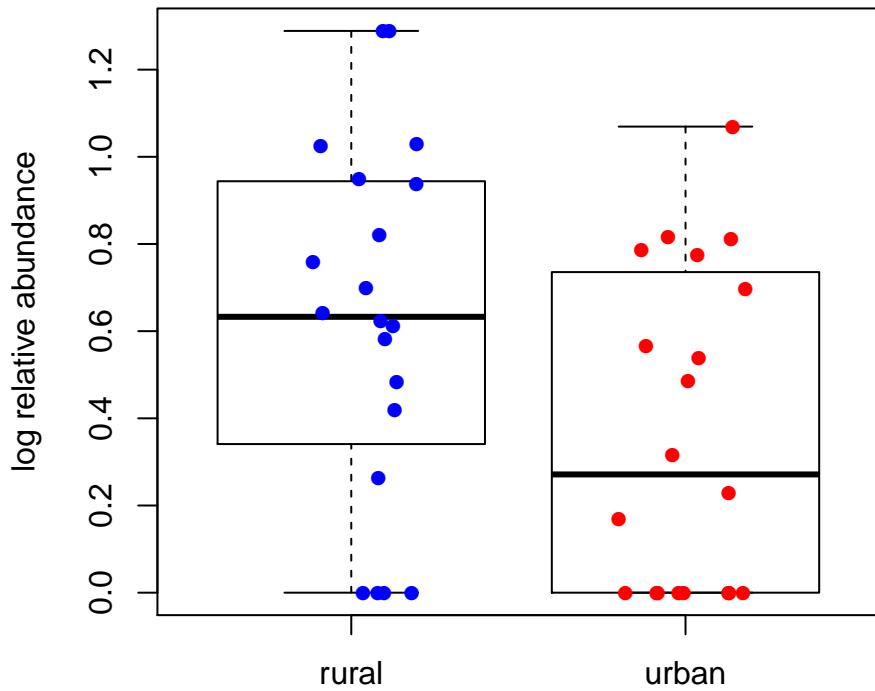
WGS family: Roseiflexaceae
pAdjRuralUrban= 0.091

WGS family: Planococcaceae
pAdjRuralUrban= 0.0961
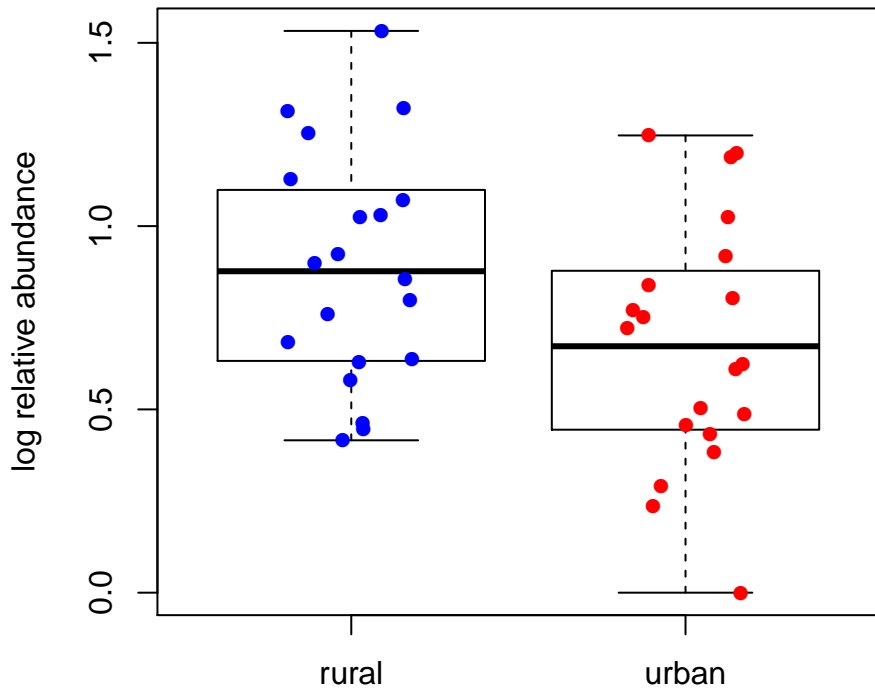
WGS family: Thermomicrobiaceae
pAdjRuralUrban= 0.098
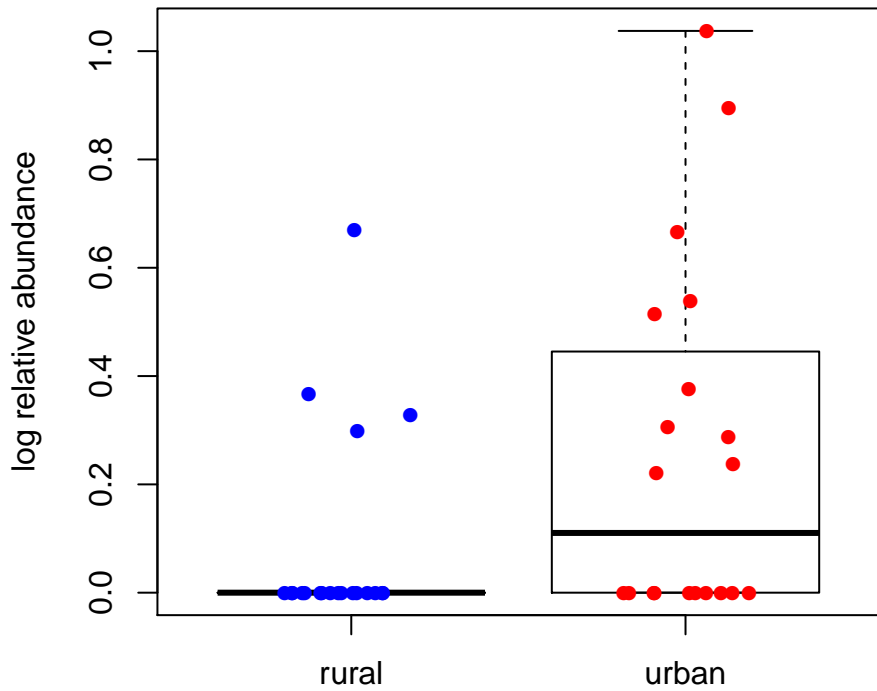
WGS family: Cytophagaceae
pAdjRuralUrban= 0.0988

log relative abundance
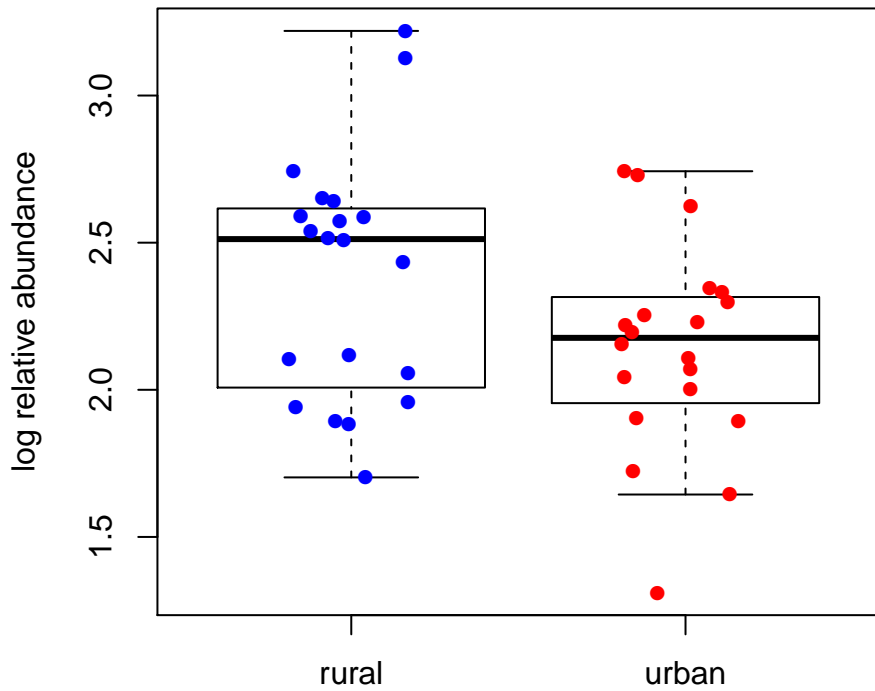
rural   urban

WGS family: Geobacteraceae
pAdjRuralUrban= 0.0997
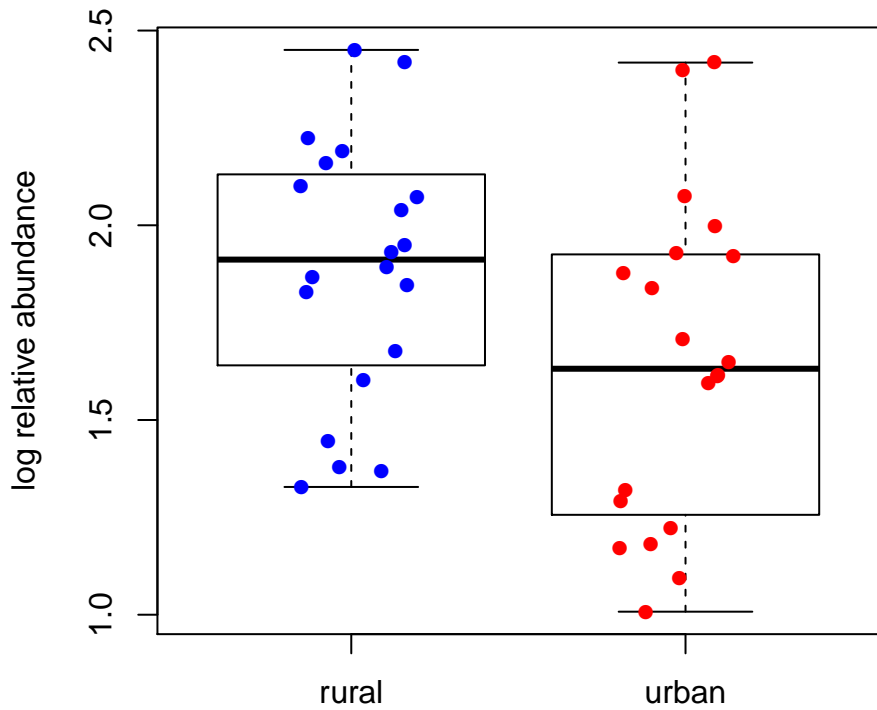
WGS family: Psychromonadaceae
pAdjRuralUrban= 0.101
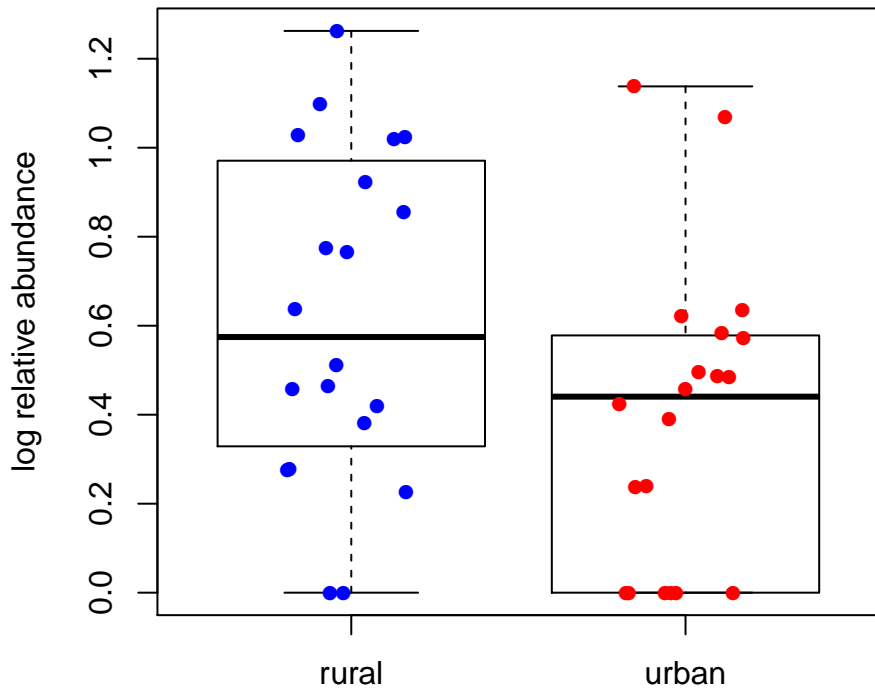
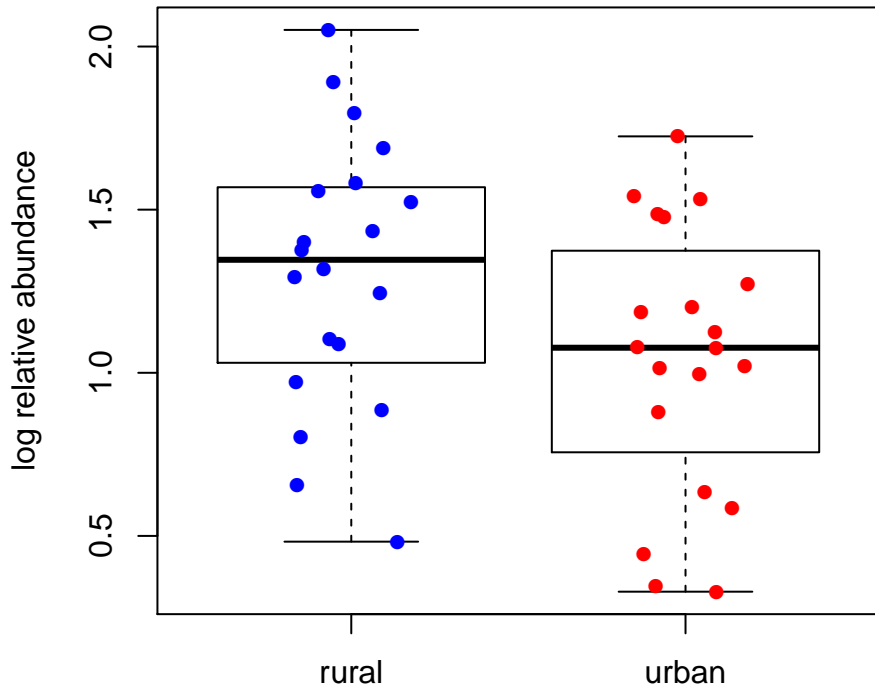**WGS family: Heliobacteriaceae**
pAdjRuralUrban= 0.105

WGS family: Pseudoalteromonadaceae
pAdjRuralUrban= 0.109

WGS family: Desulfobacteraceae
pAdjRuralUrban= 0.11
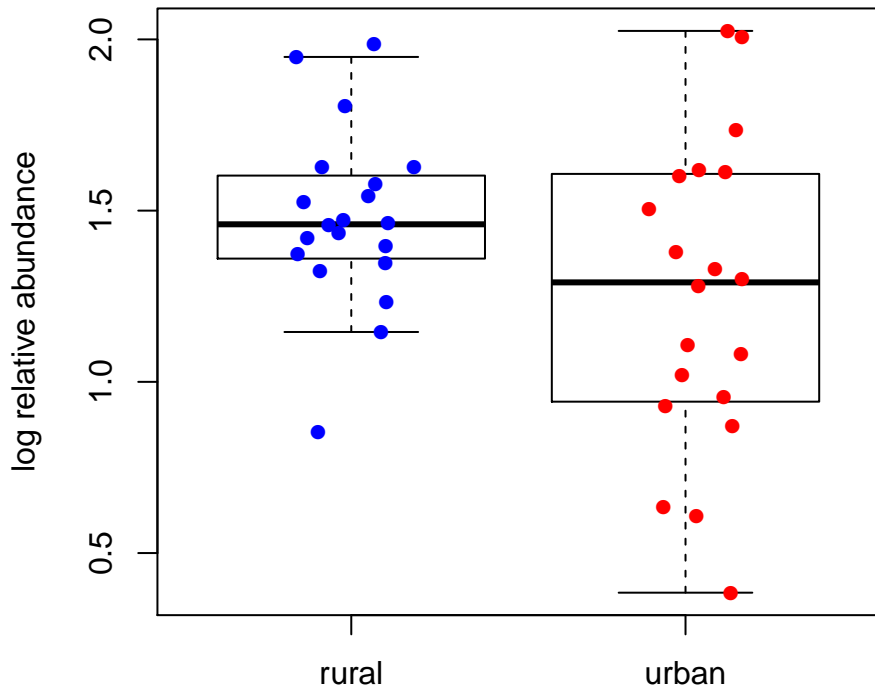
WGS family: Hydrogenothermaceae
pAdjRuralUrban= 0.11

WGS family: Sporolactobacillaceae
pAdjRuralUrban= 0.11
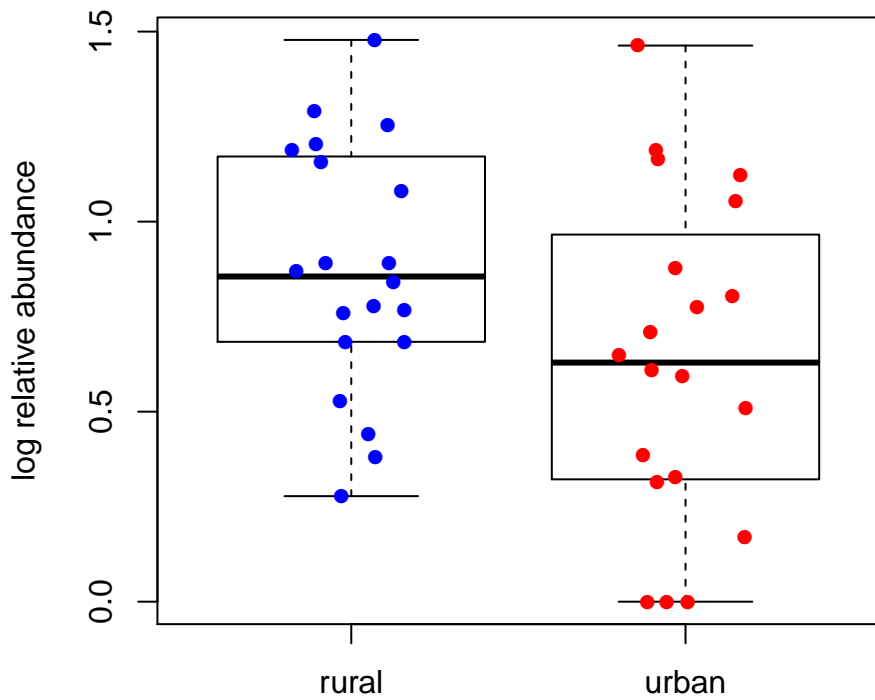
WGS family: Planctomycetaceae
pAdjRuralUrban= 0.113
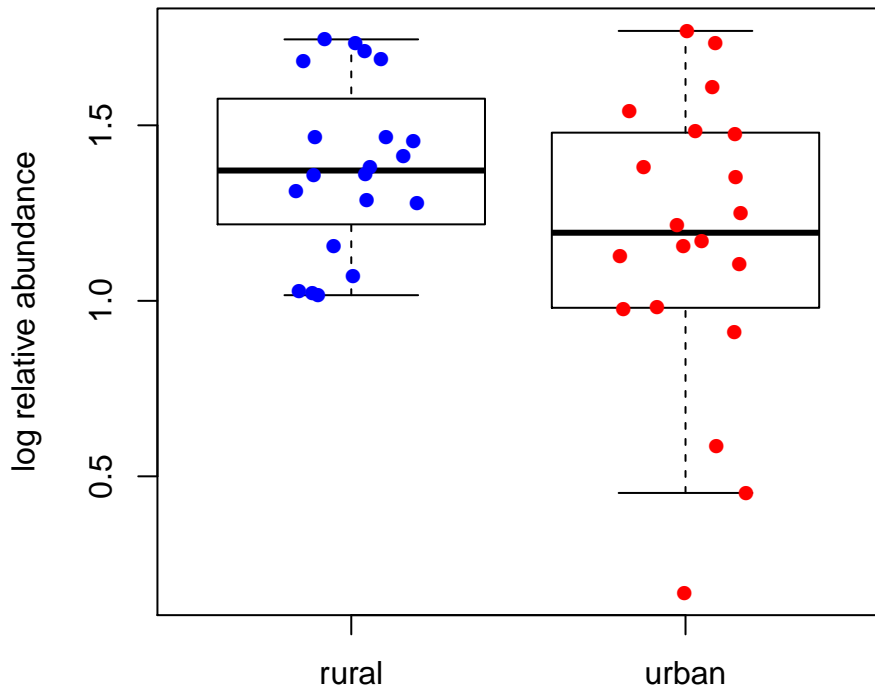
WGS family: Halanaerobiaceae
pAdjRuralUrban= 0.116
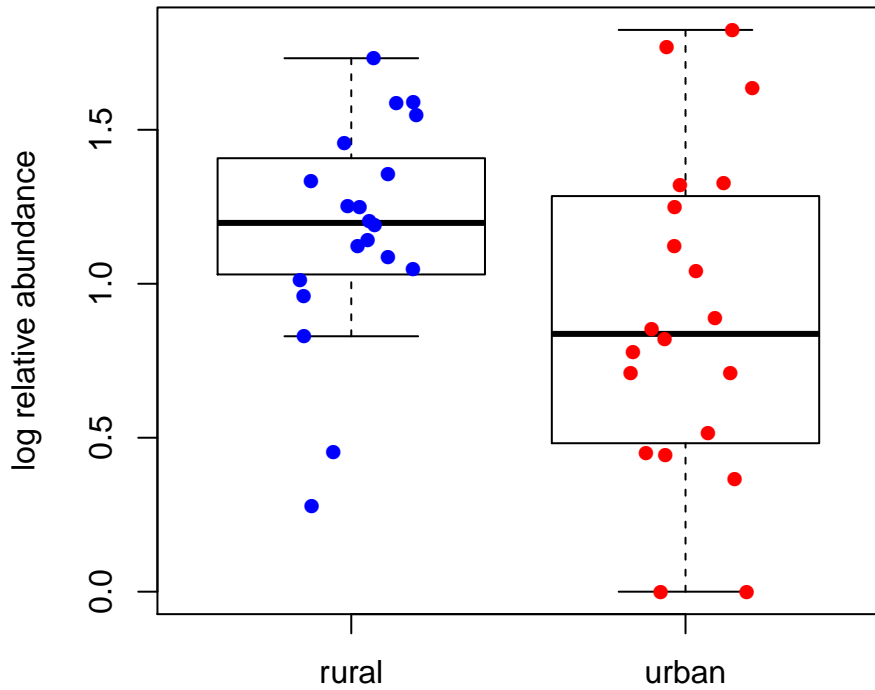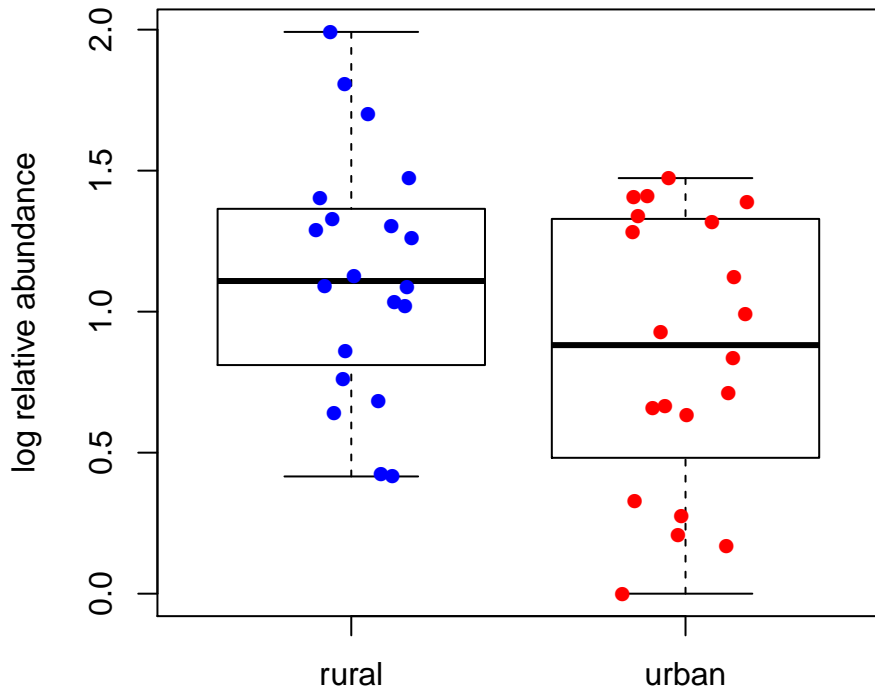
WGS family: Neisseriaceae
pAdjRuralUrban= 0.128
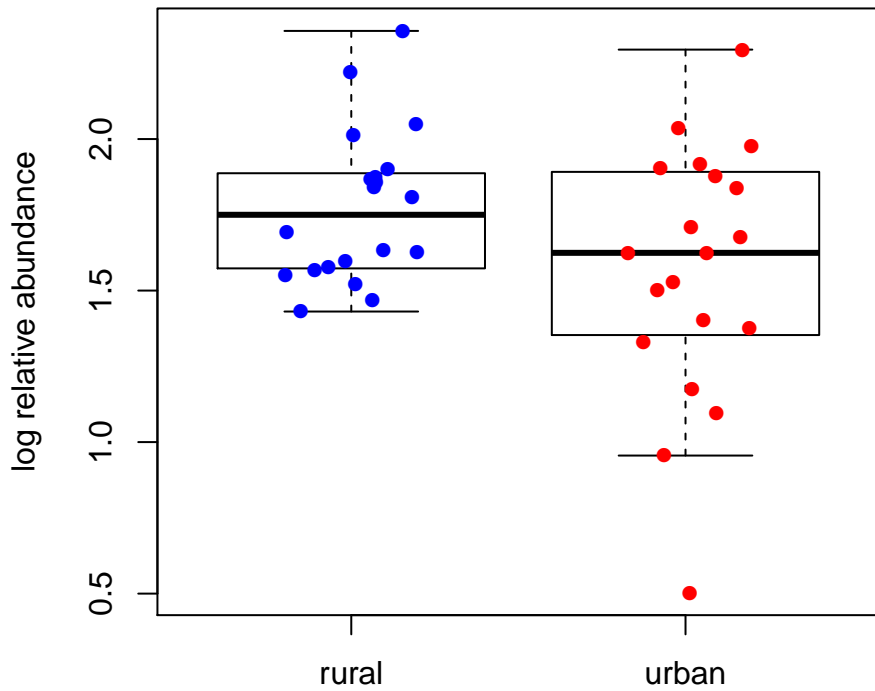
WGS family: Conexibacteraceae
pAdjRuralUrban= 0.128
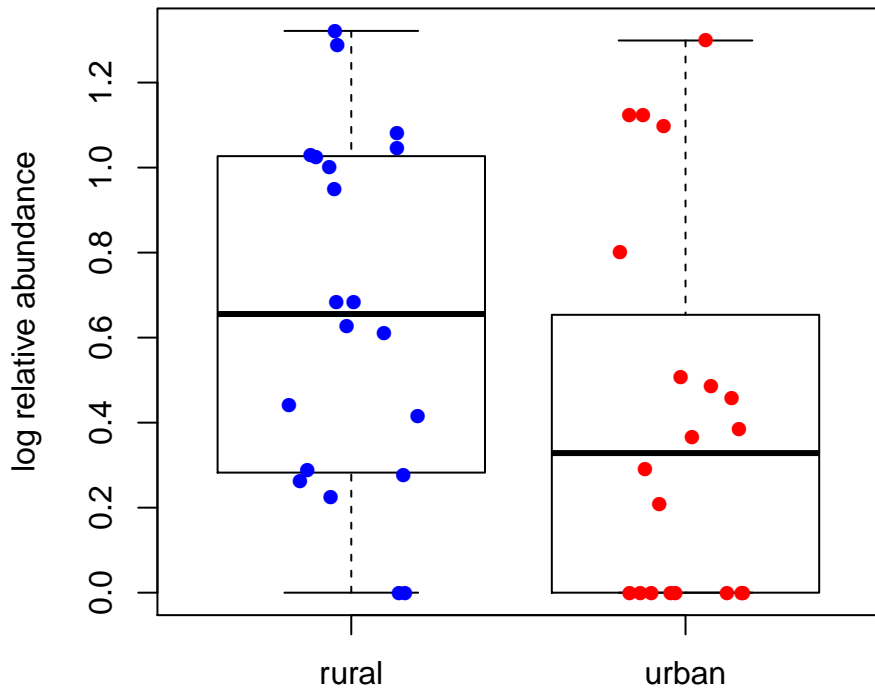
WGS family: Desulfarculaceae
pAdjRuralUrban= 0.132
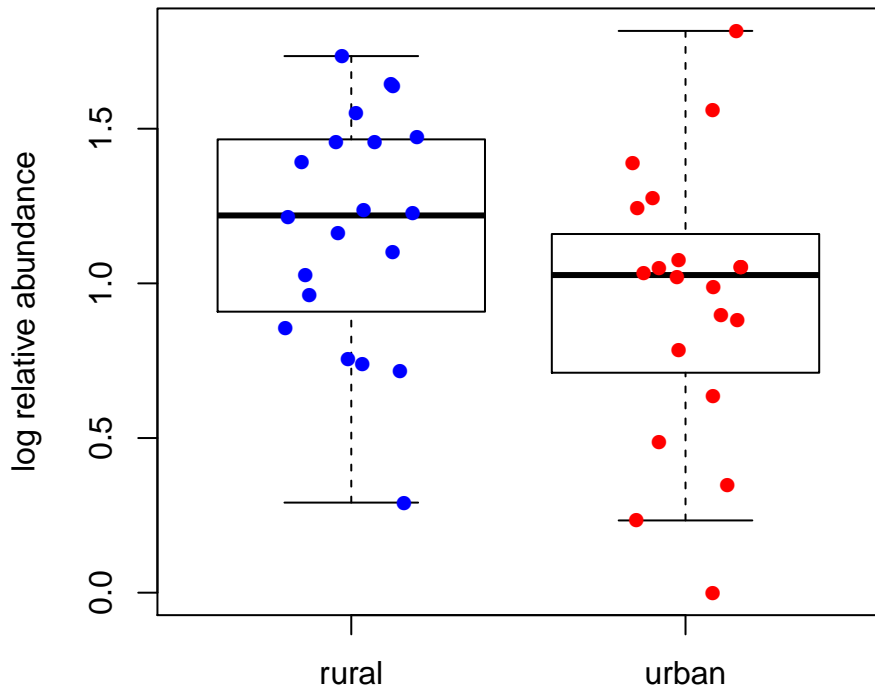
WGS family: Chrysiogenaceae
pAdjRuralUrban= 0.134

WGS family: Rickettsiaceae
pAdjRuralUrban= 0.142
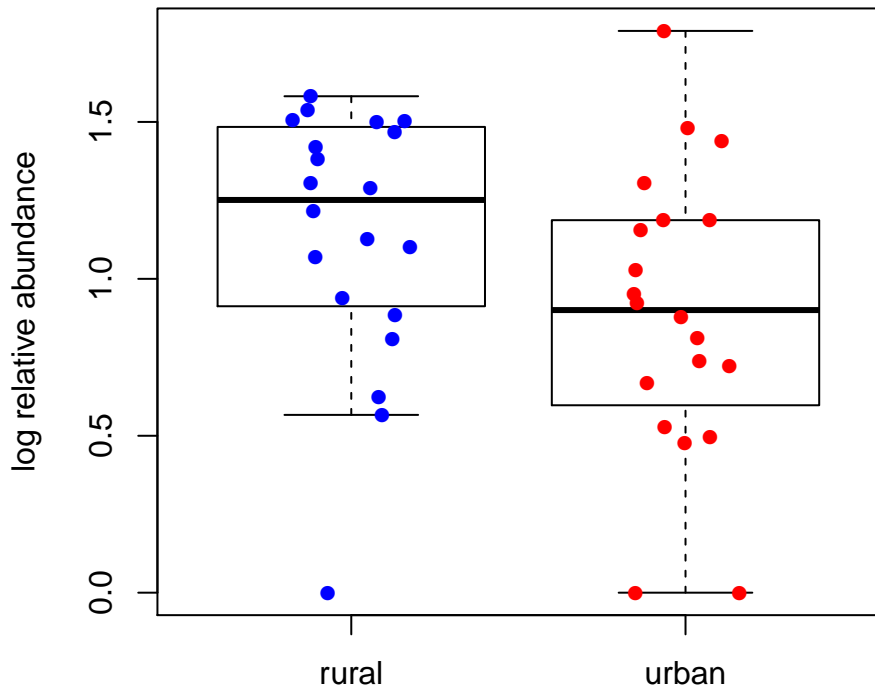
WGS family: Syntrophaceae
pAdjRuralUrban= 0.143

WGS family: Streptosporangiaceae
pAdjRuralUrban= 0.143
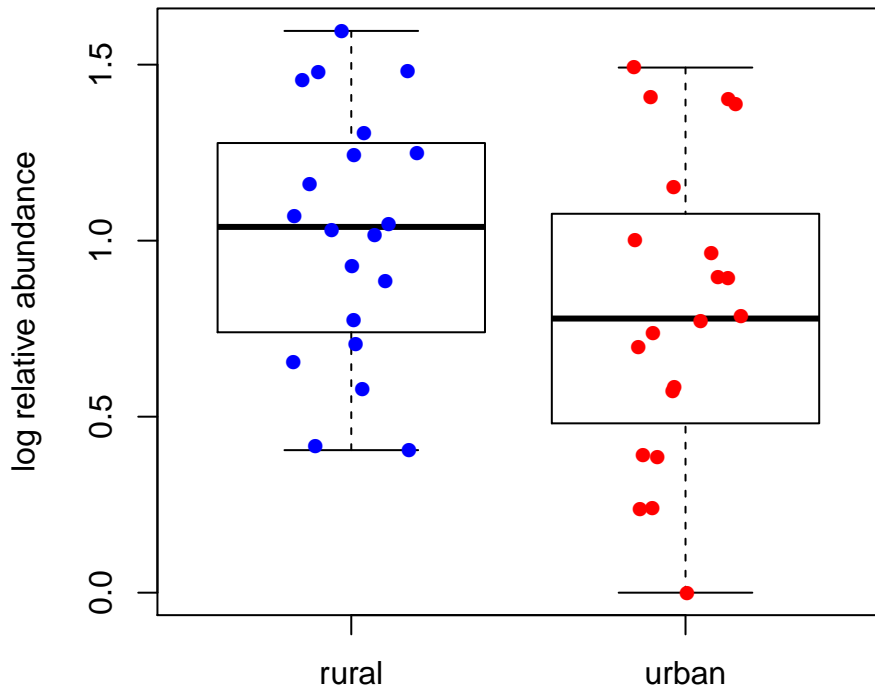
WGS family: Spirochaetaceae
pAdjRuralUrban= 0.151
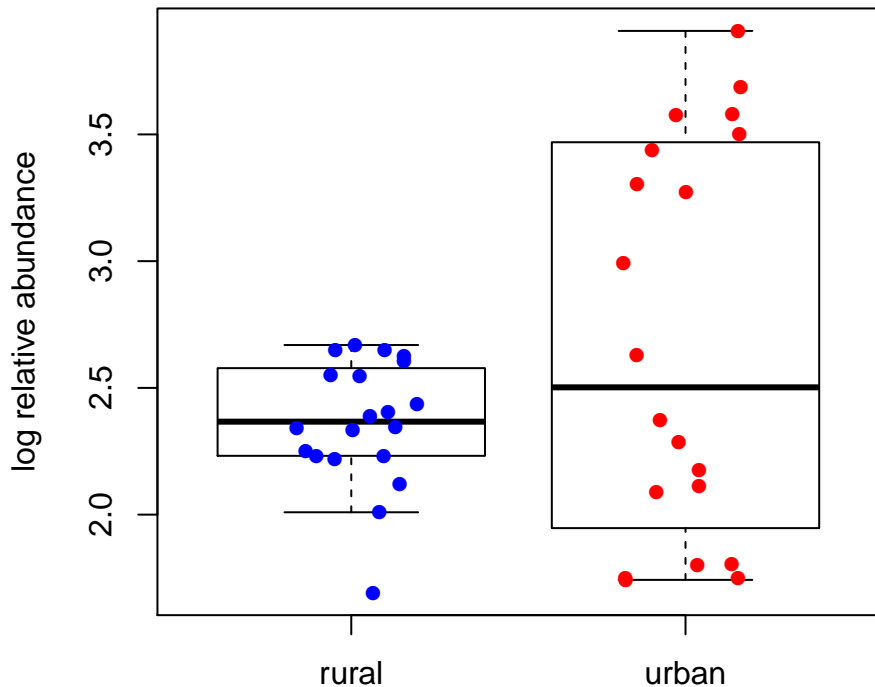
WGS family: Coriobacteriaceae
pAdjRuralUrban= 0.151
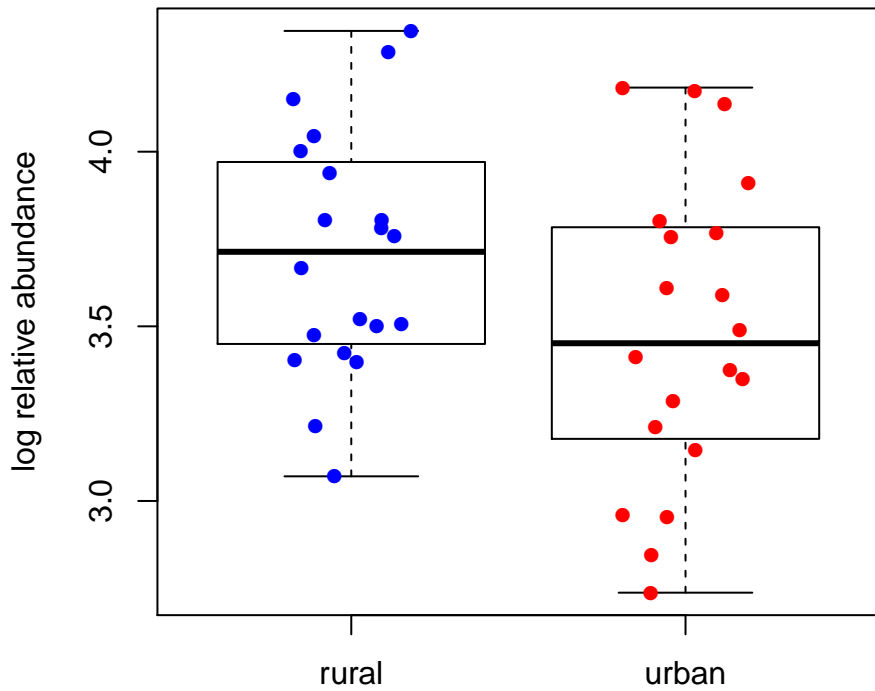
WGS family: Opitutaceae
pAdjRuralUrban= 0.153
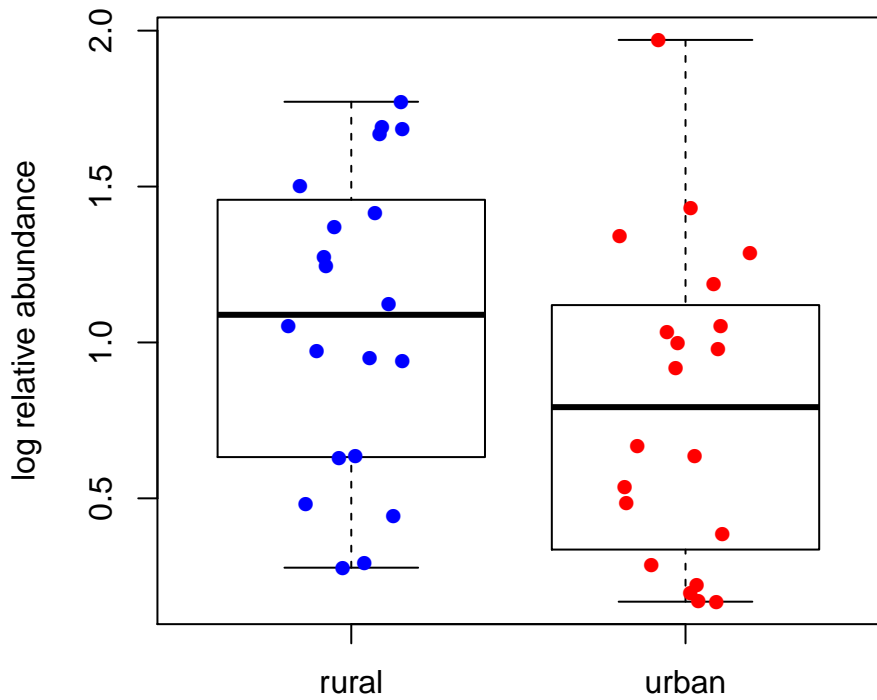
WGS family: Methanosarcinaceae
pAdjRuralUrban= 0.153
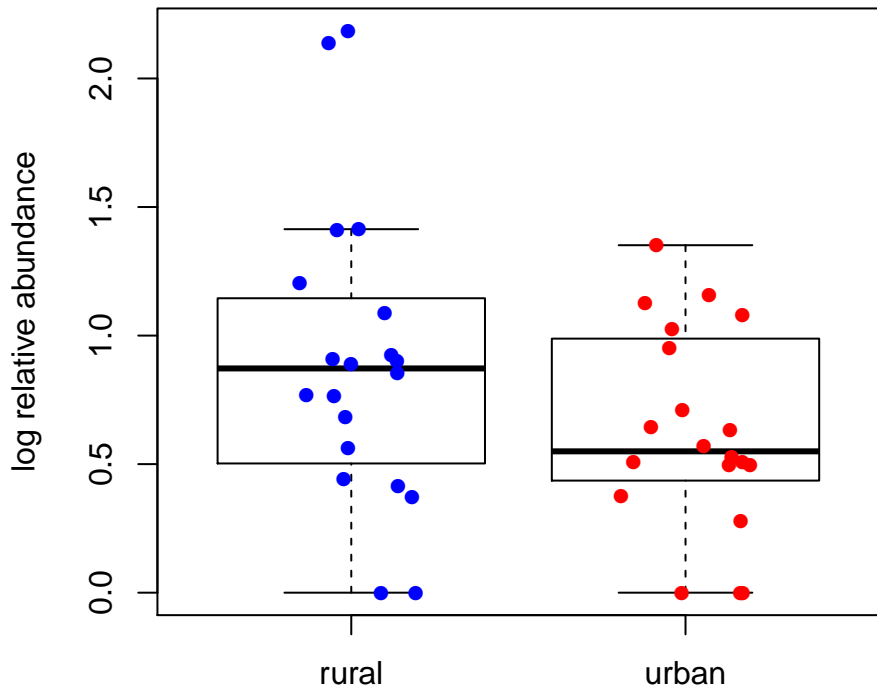
WGS family: Chromatiaceae
pAdjRuralUrban= 0.153
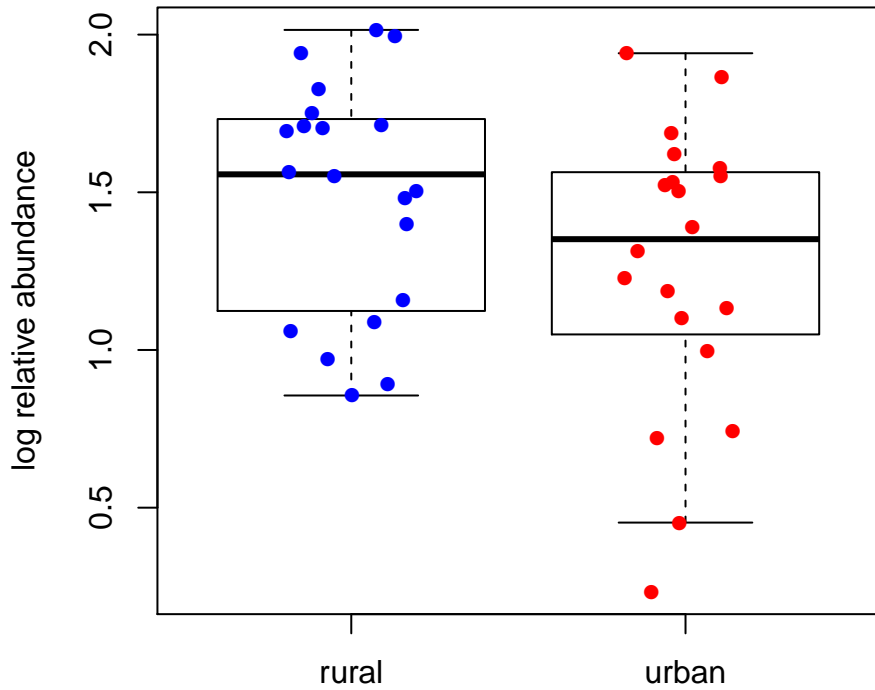
WGS family: Hyphomonadaceae
pAdjRuralUrban= 0.157
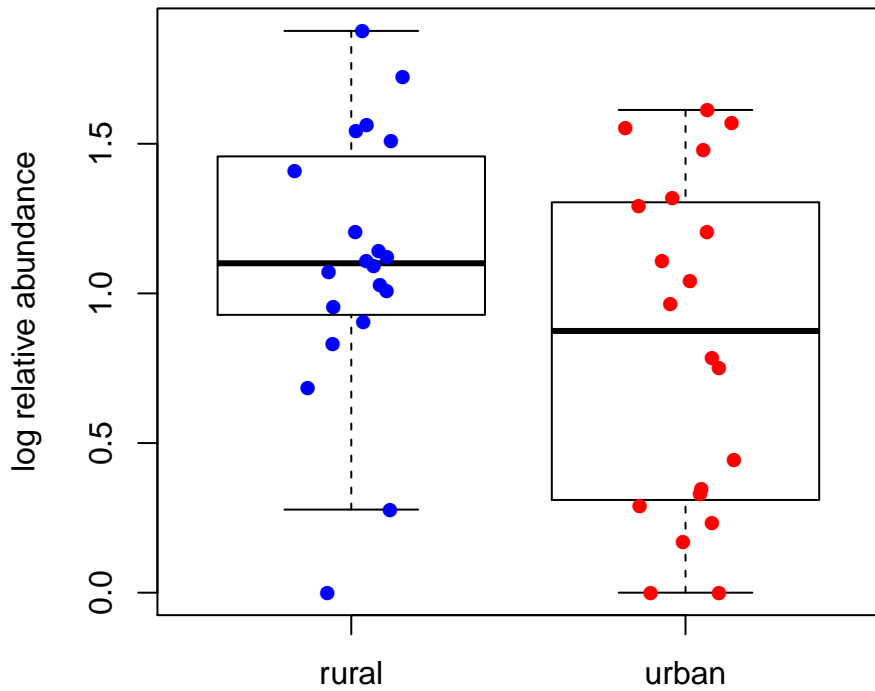
WGS family: Oscillospiraceae
pAdjRuralUrban= 0.162
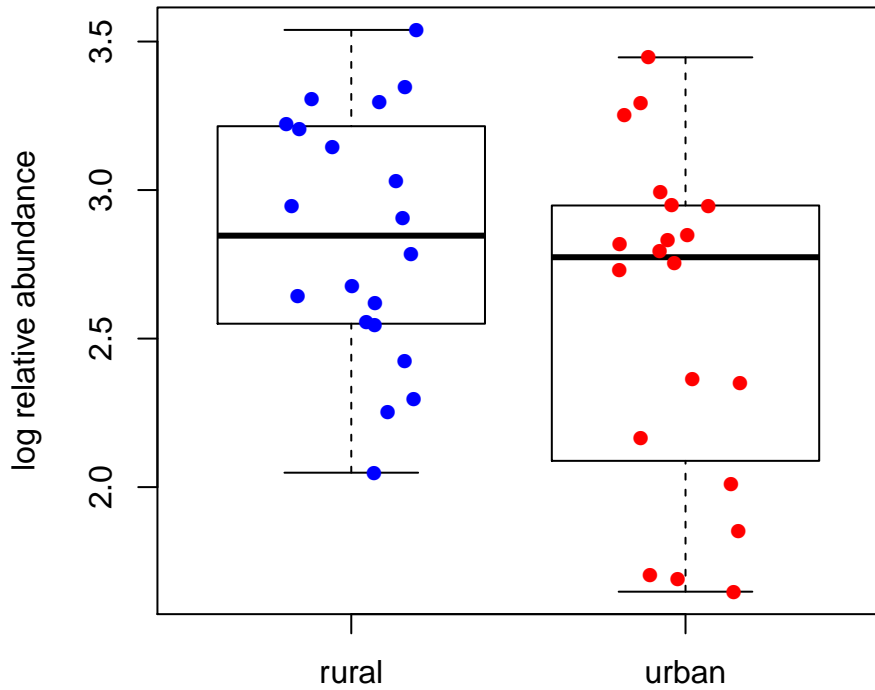
WGS family: Desulfobulbaceae
pAdjRuralUrban= 0.162

WGS family: Halobacteriaceae
pAdjRuralUrban= 0.162
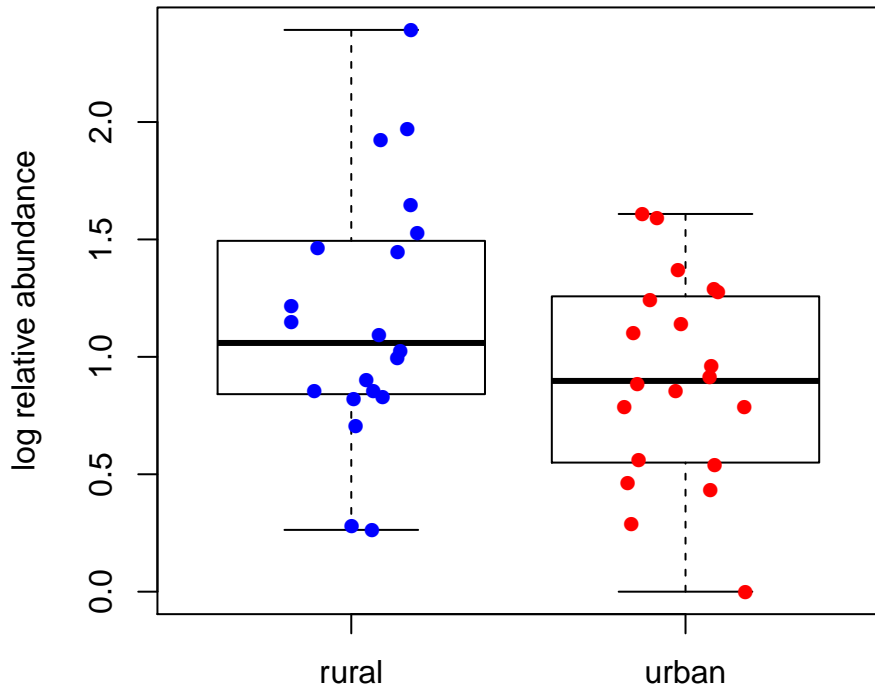
WGS family: Desulfomicrobiaceae
pAdjRuralUrban= 0.165

WGS family: Sanguibacteraceae
pAdjRuralUrban= 0.169
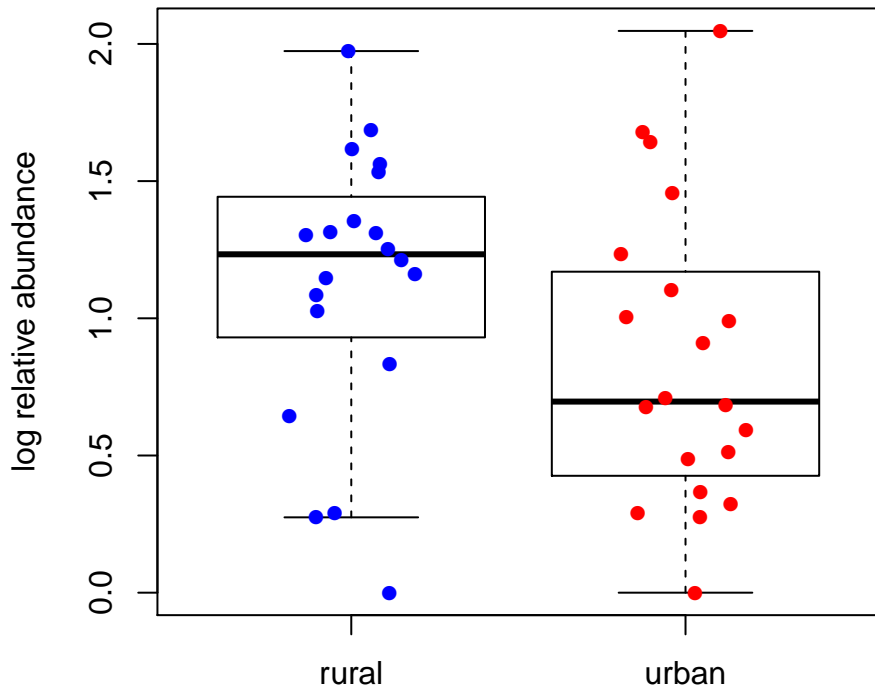
WGS family: Saprospiraceae
pAdjRuralUrban= 0.17

WGS family: Nocardiaceae
pAdjRuralUrban= 0.17
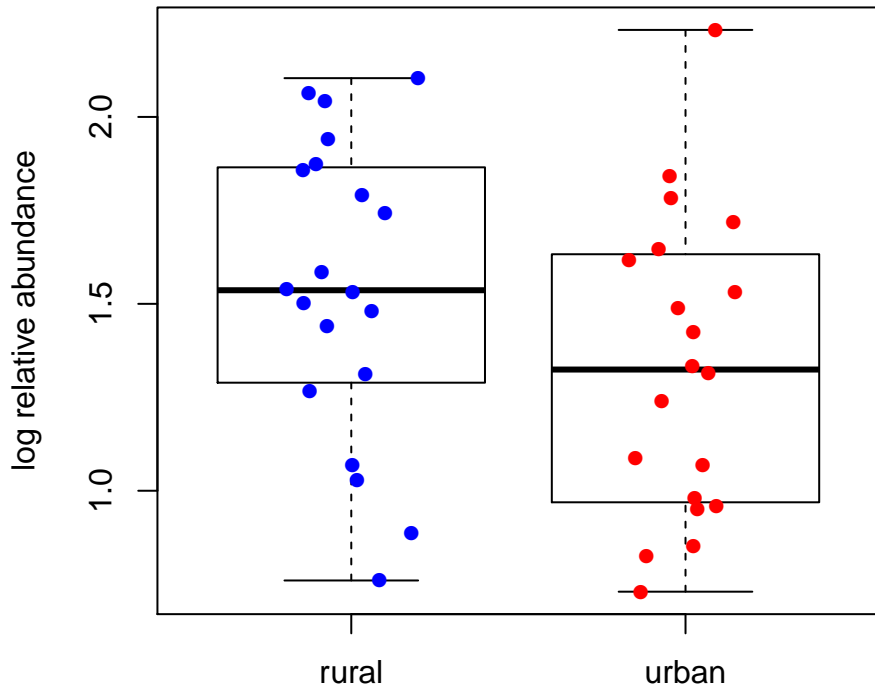
WGS family: Cardiobacteriaceae
pAdjRuralUrban= 0.177
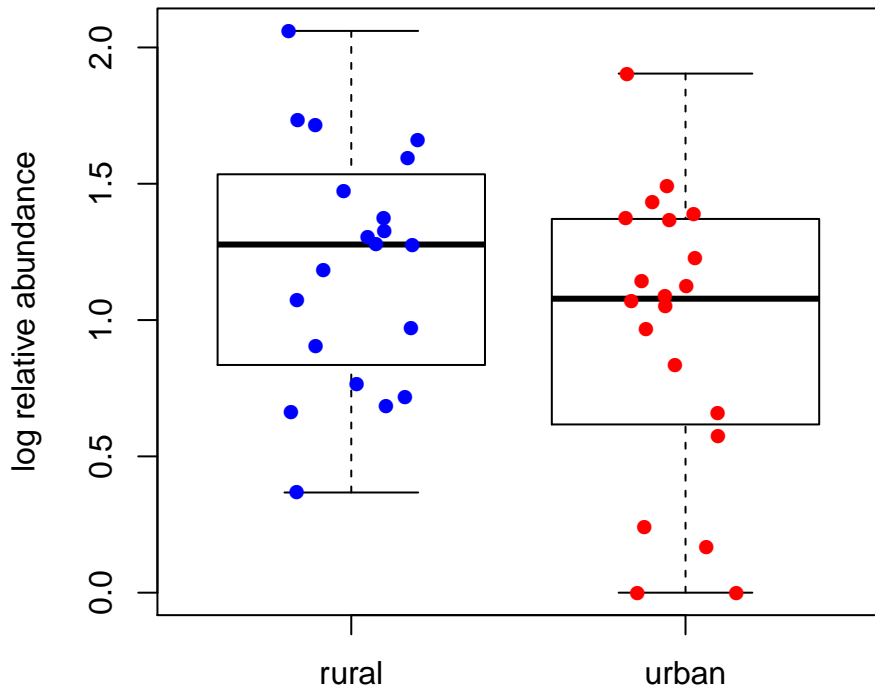
WGS family: Intrasporangiaceae
pAdjRuralUrban= 0.185
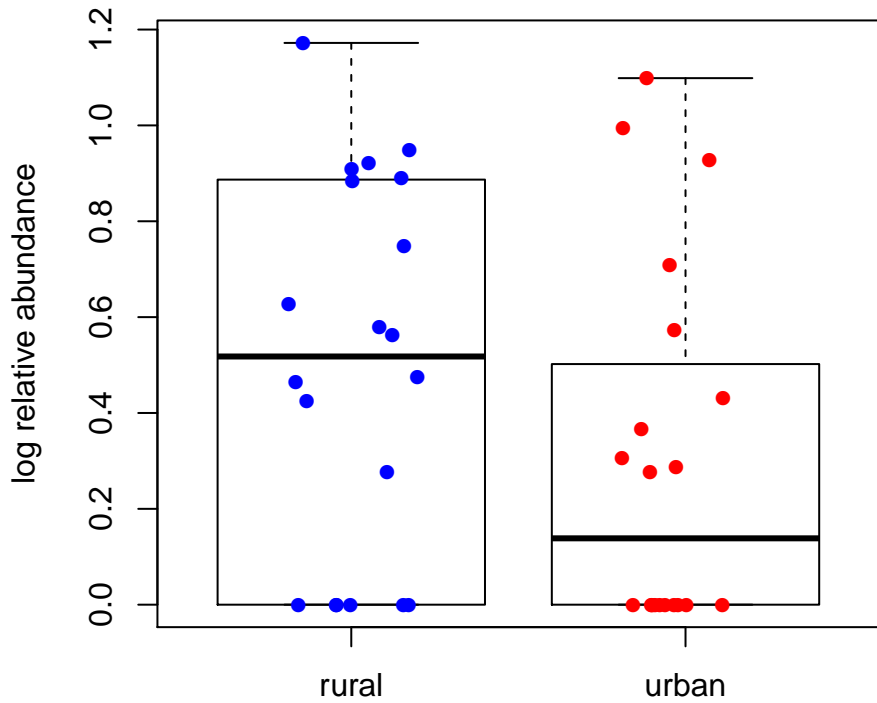
WGS family: Oxalobacteraceae
pAdjRuralUrban= 0.194
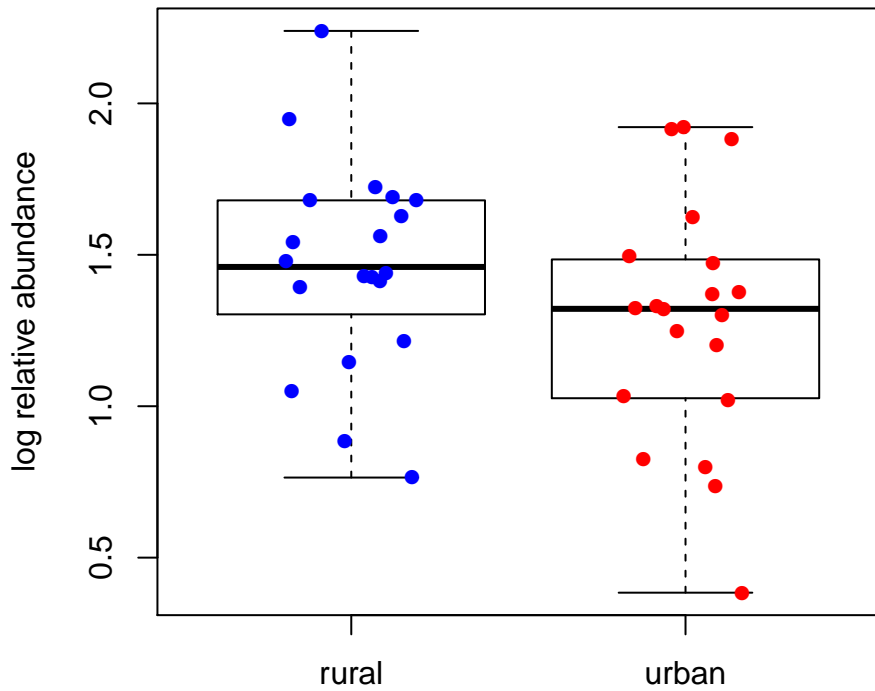
WGS family: Sulfuricellaceae
pAdjRuralUrban= 0.194
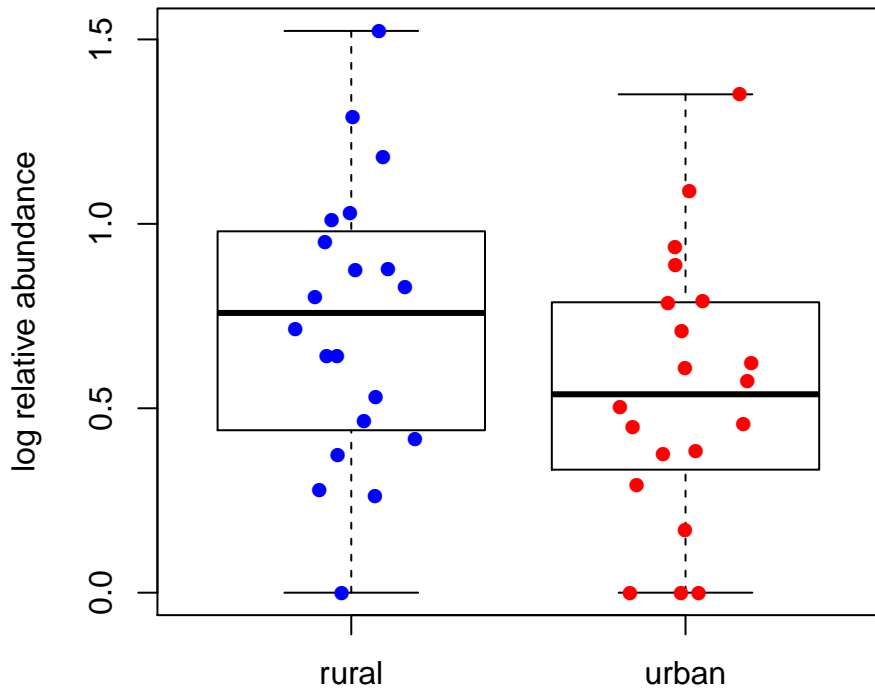
WGS family: Chlorobiaceae
pAdjRuralUrban= 0.194
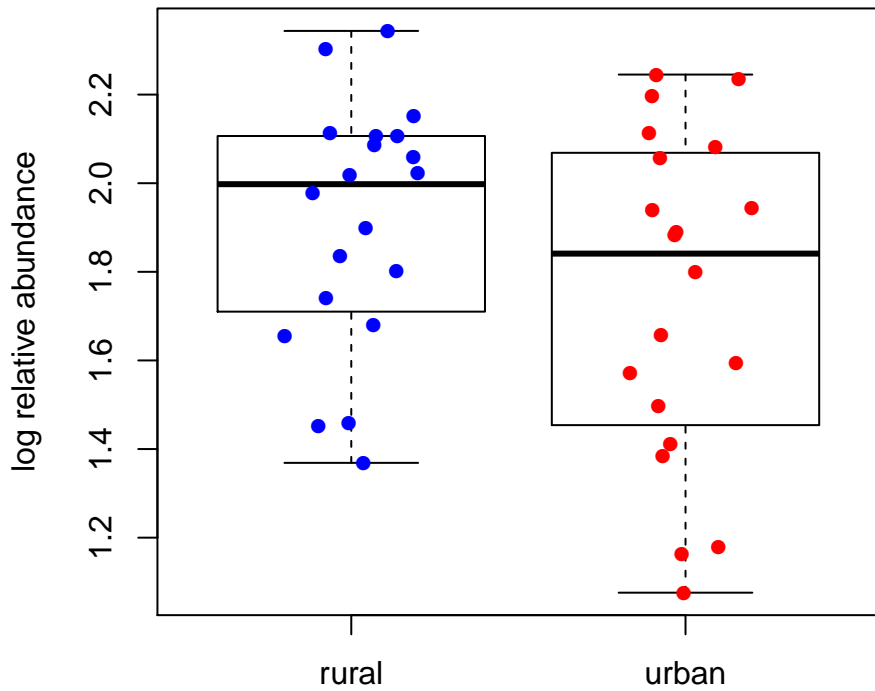
WGS family: Leptotrichiaceae
pAdjRuralUrban= 0.194
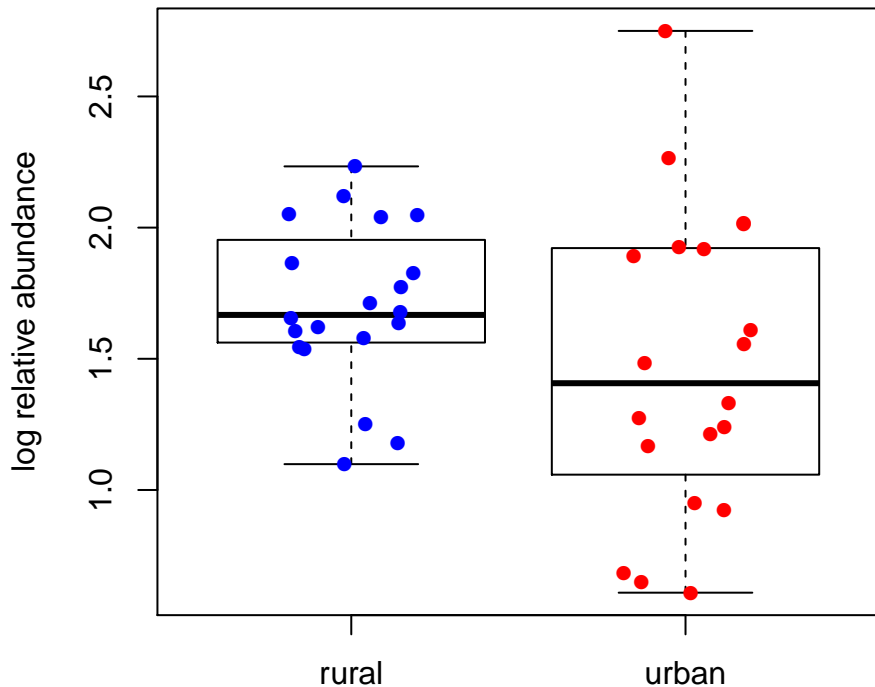
WGS family: Caldilineaceae
pAdjRuralUrban= 0.195
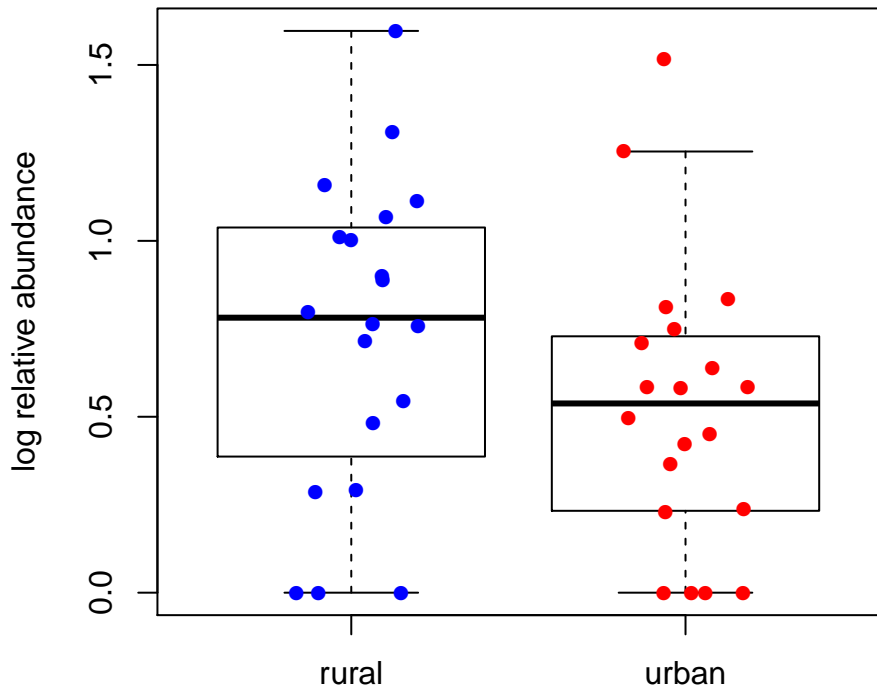
WGS family: Carnobacteriaceae
pAdjRuralUrban= 0.198
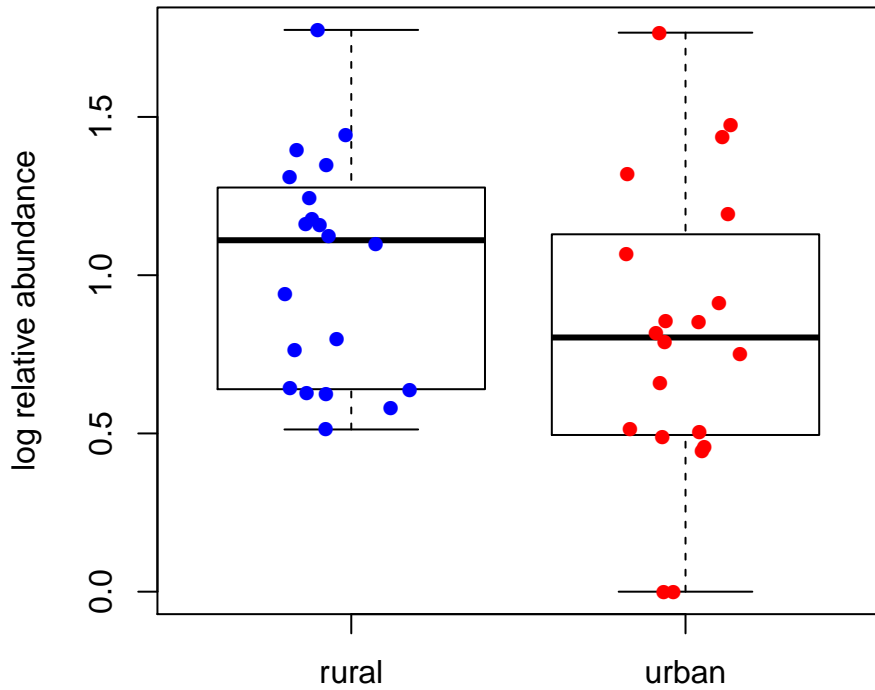
WGS family: Pseudonocardiaceae
pAdjRuralUrban= 0.2
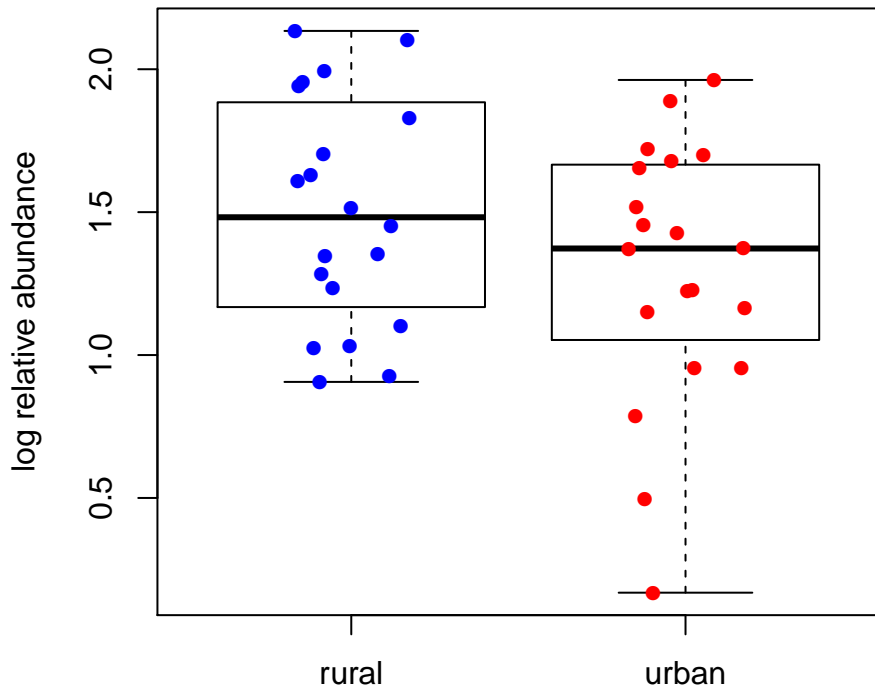
WGS family: Clostridiales_Family_XVII._Incertae_Sedis
pAdjRuralUrban= 0.201
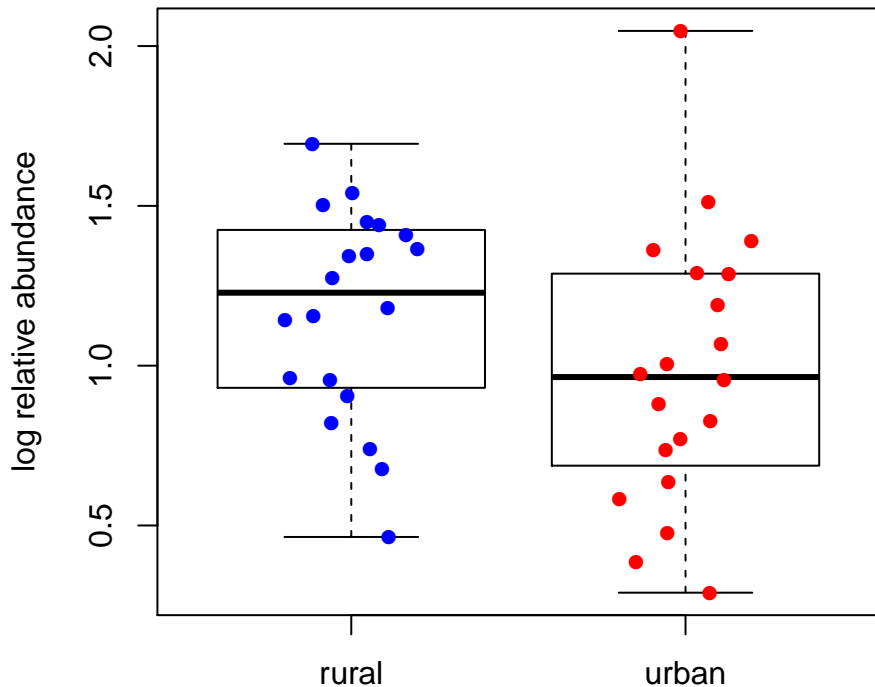
WGS family: Eubacteriaceae
pAdjRuralUrban= 0.204
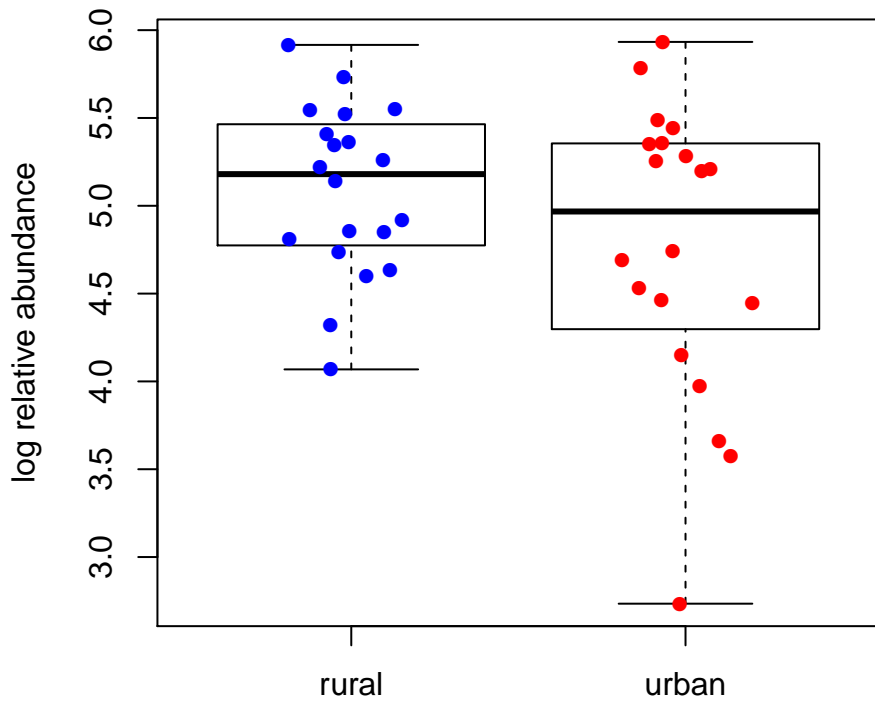
WGS family: Symbiobacteriaceae
pAdjRuralUrban= 0.21
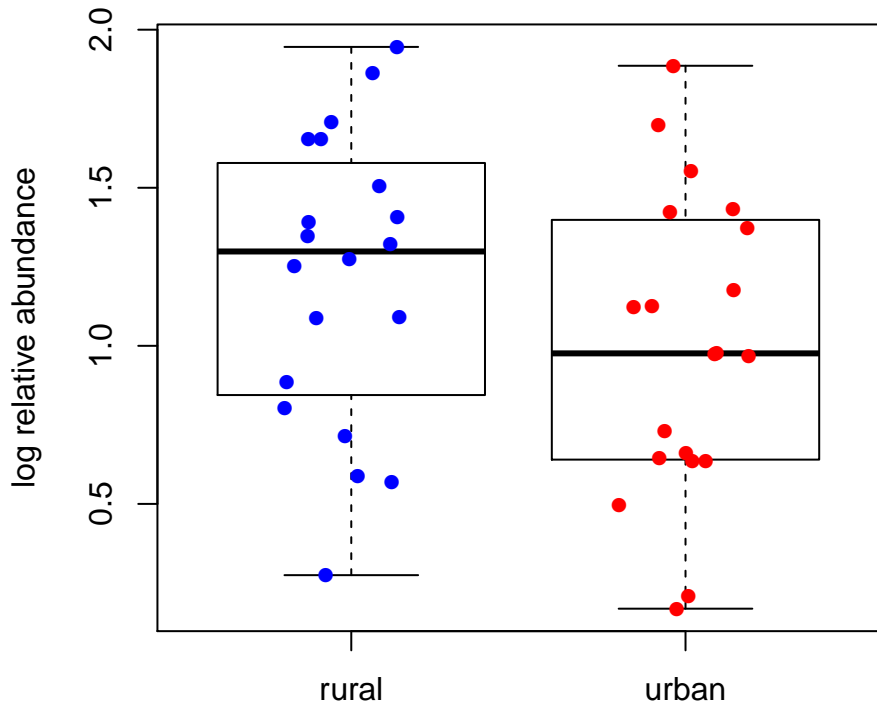
WGS family: Vibrionaceae
pAdjRuralUrban= 0.21

WGS family: Waddliaceae
pAdjRuralUrban= 0.216
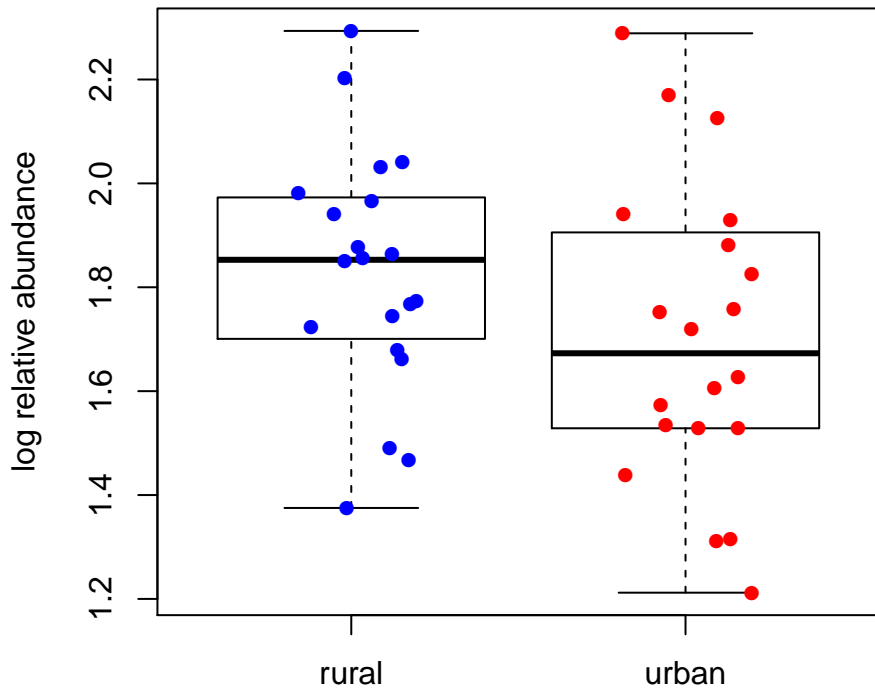
WGS family: Gallionellaceae
pAdjRuralUrban= 0.221
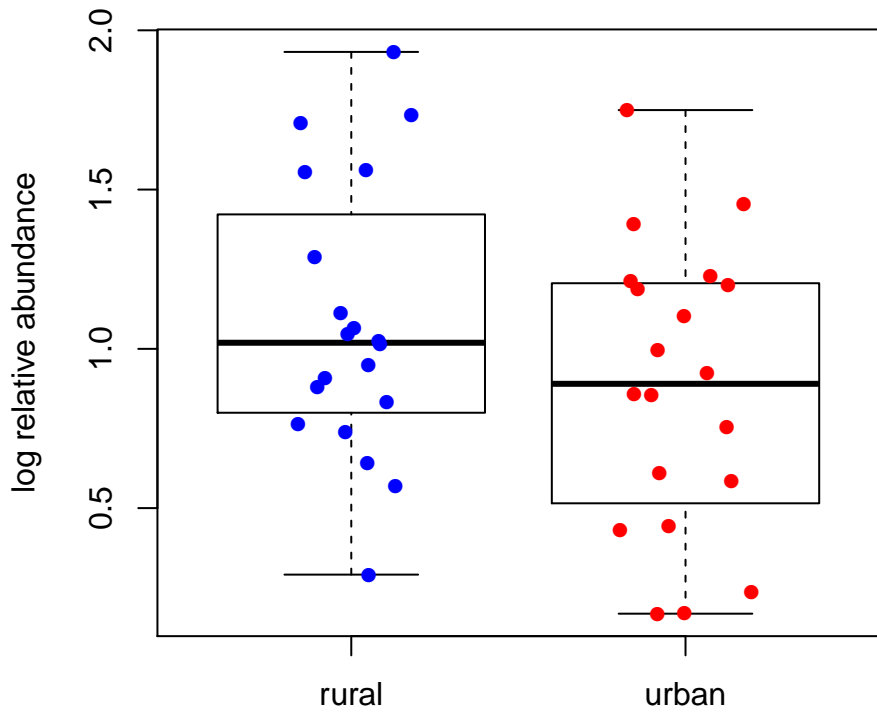
WGS family: Cellulomonadaceae
pAdjRuralUrban= 0.221
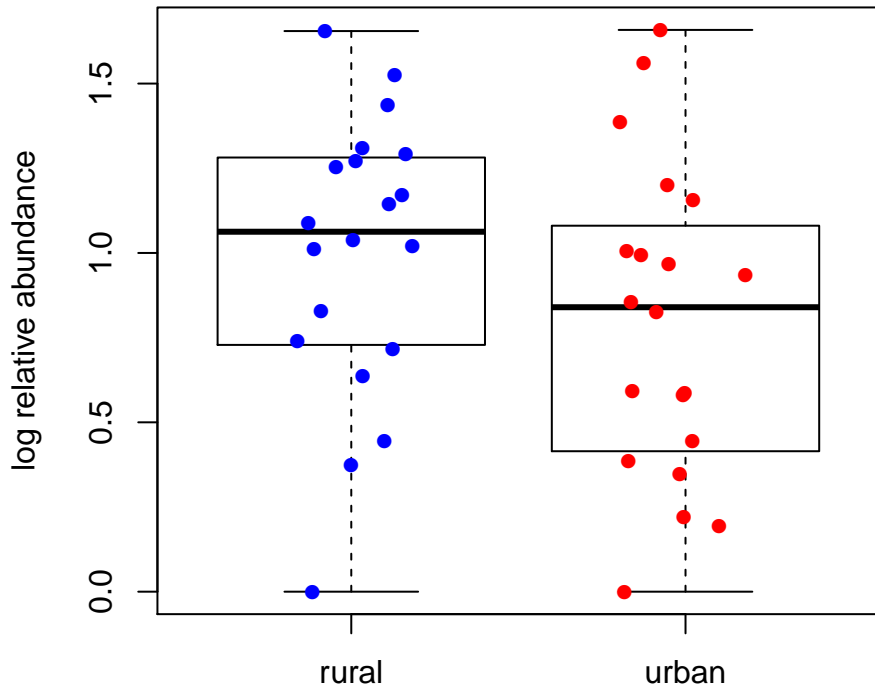
WGS family: Anaplasmataceae
pAdjRuralUrban= 0.256
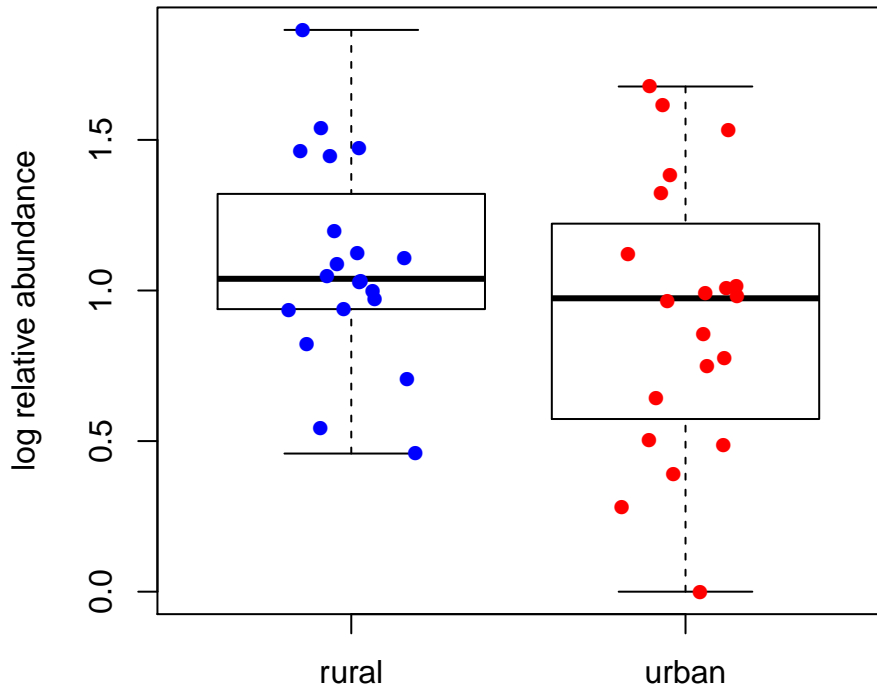
WGS family: Piscirickettsiaceae
pAdjRuralUrban= 0.256
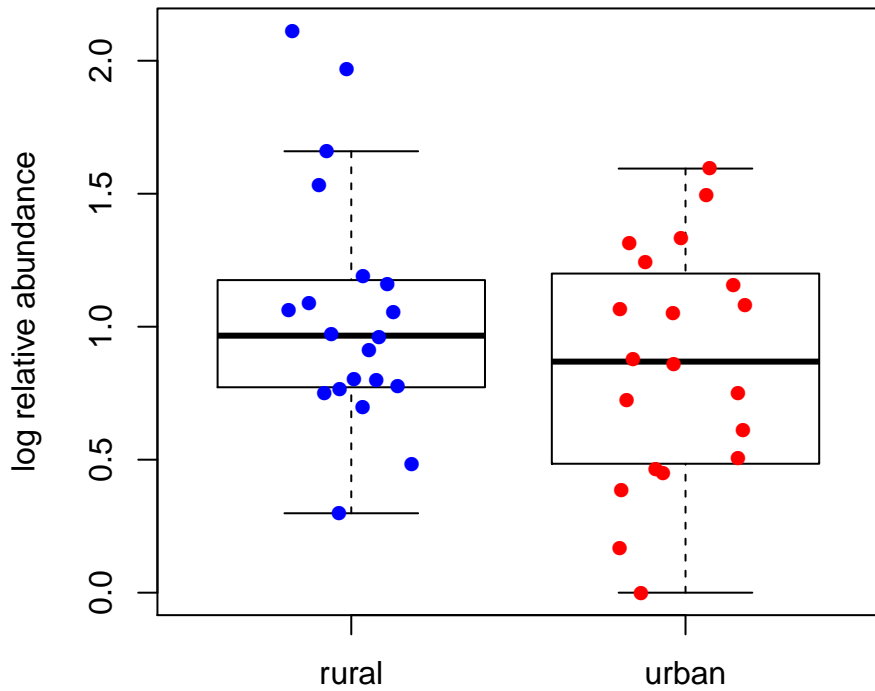
WGS family: Puniceicoccaceae
pAdjRuralUrban= 0.263

WGS family: Nostocaceae
pAdjRuralUrban= 0.286
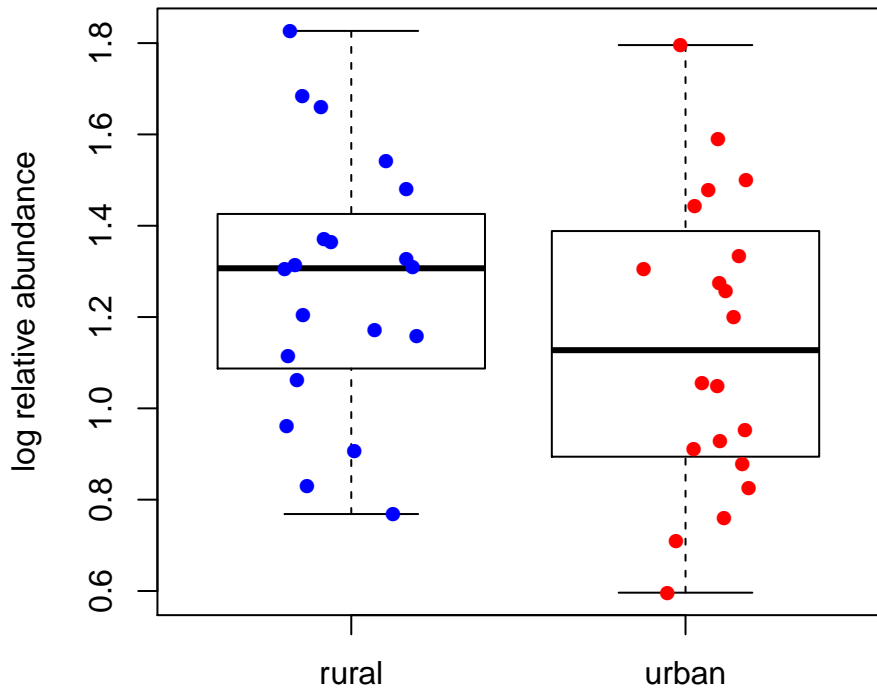
WGS family: Frankiaceae
pAdjRuralUrban= 0.291
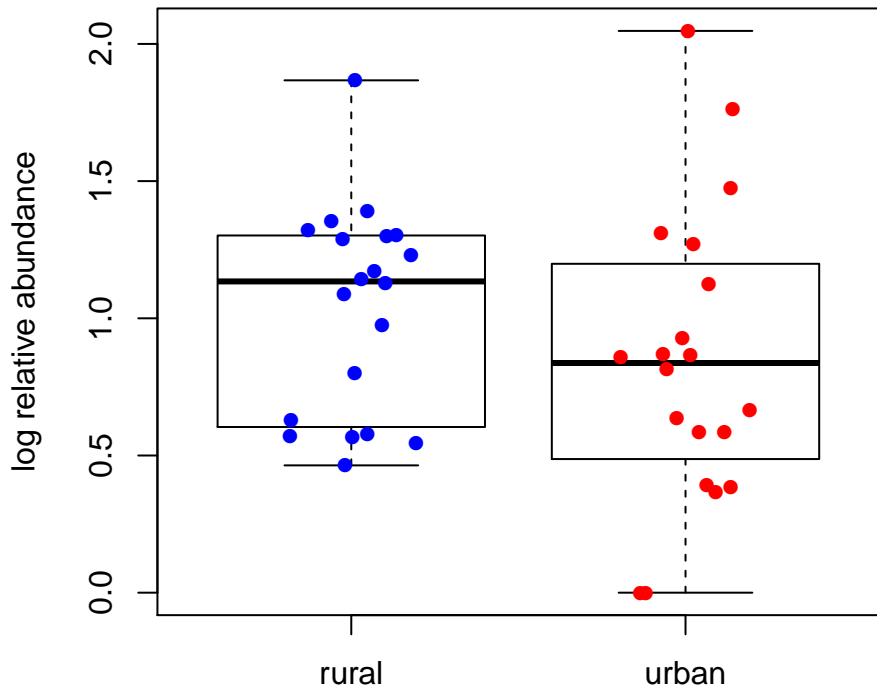
WGS family: Mimiviridae
pAdjRuralUrban= 0.291

WGS family: Oceanospirillaceae
pAdjRuralUrban= 0.298
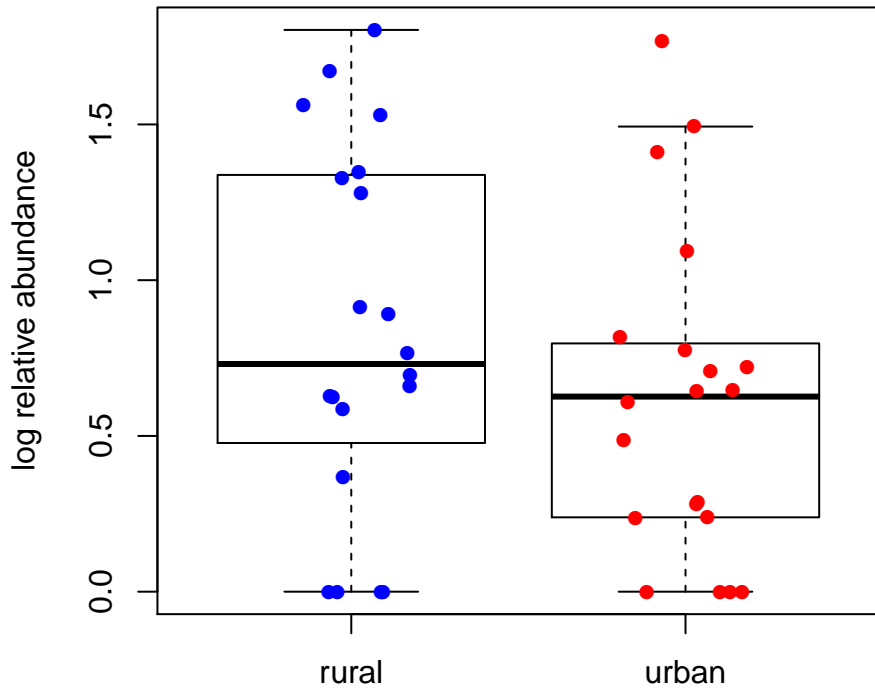
WGS family: Halomonadaceae
pAdjRuralUrban= 0.3

WGS family: Chlamydiaceae
pAdjRuralUrban= 0.3

WGS family: Streptomycetaceae
pAdjRuralUrban= 0.3
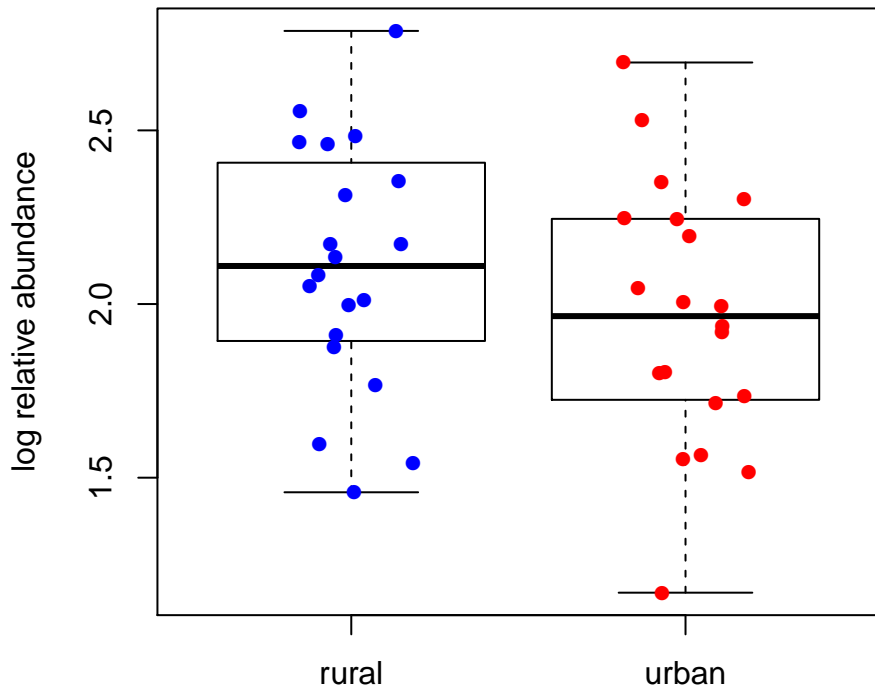
WGS family: Ferrimonadaceae
pAdjRuralUrban= 0.3
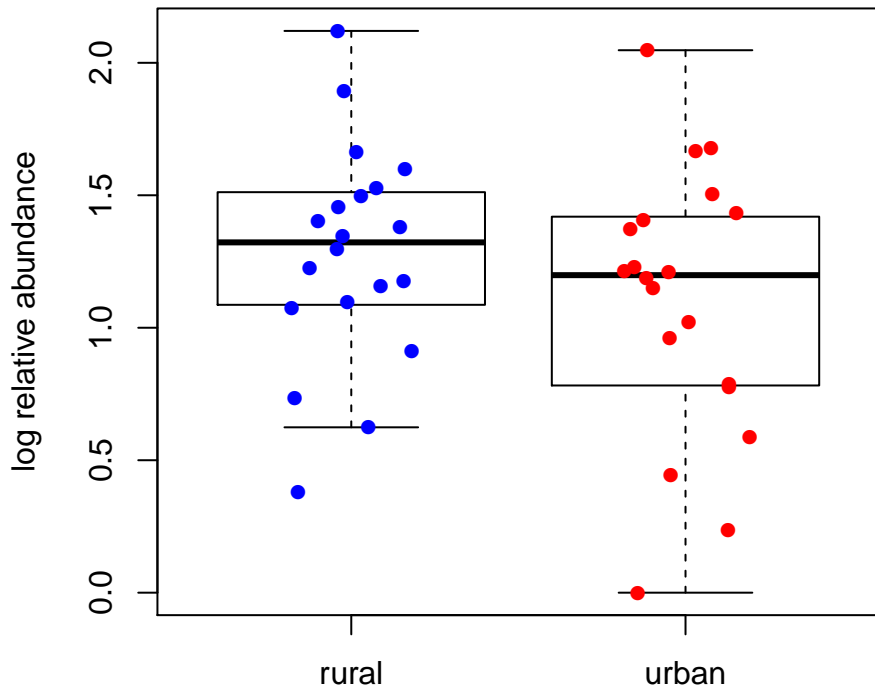
WGS family: Thermococcaceae
pAdjRuralUrban= 0.313
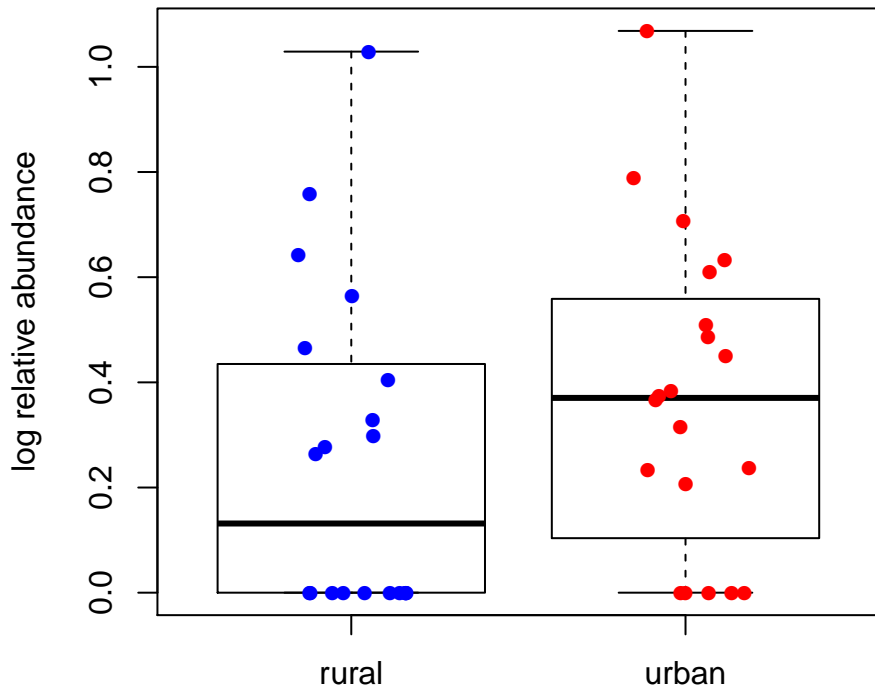
WGS family: Halothiobacillaceae
pAdjRuralUrban= 0.314
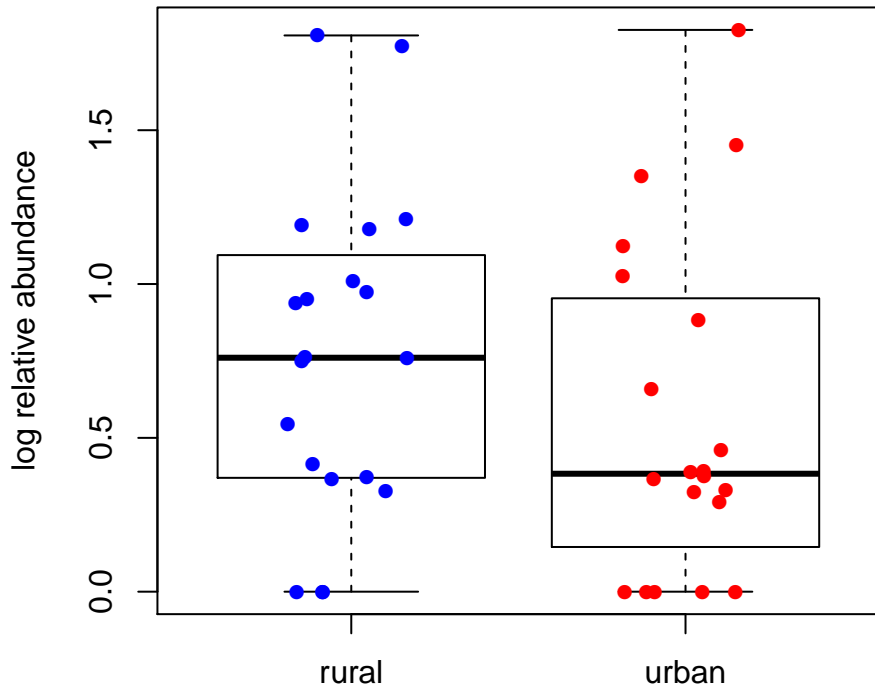
WGS family: Trueperaceae
pAdjRuralUrban= 0.318

WGS family: Archaeoglobaceae
pAdjRuralUrban= 0.324
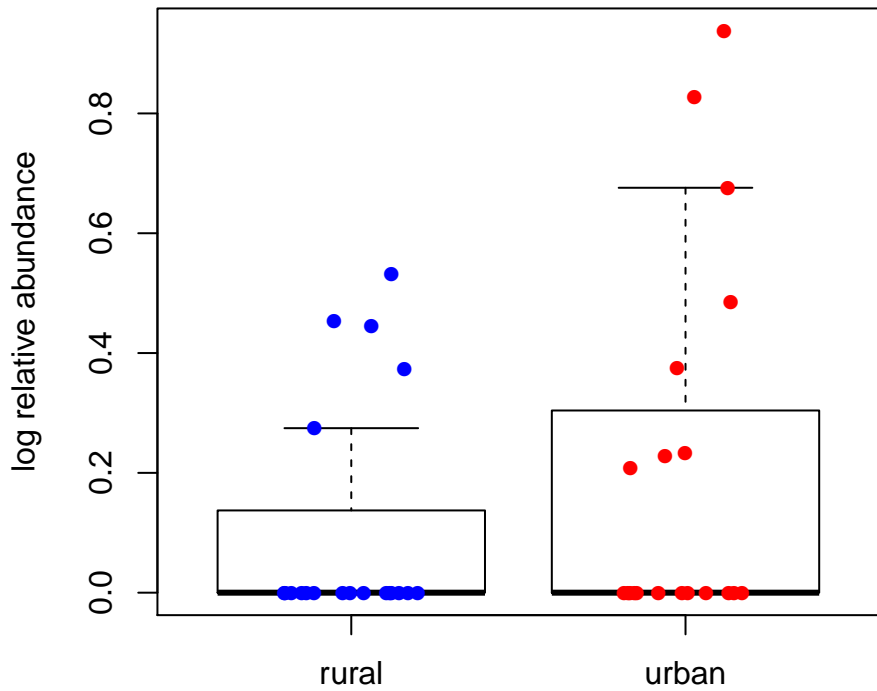
WGS family: Glycomycetaceae
pAdjRuralUrban= 0.324
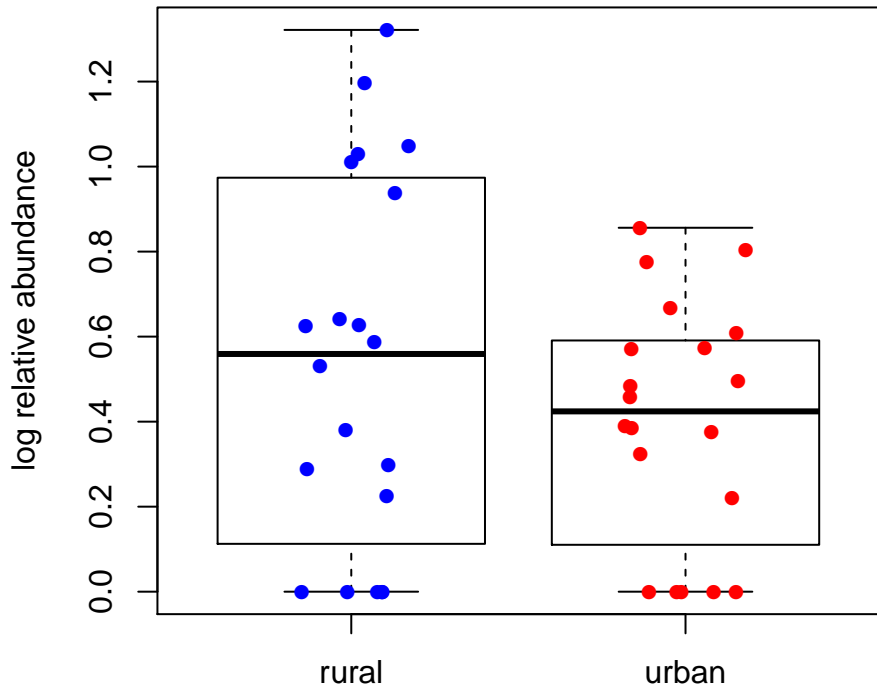
WGS family: Methanoregulaceae
pAdjRuralUrban= 0.324
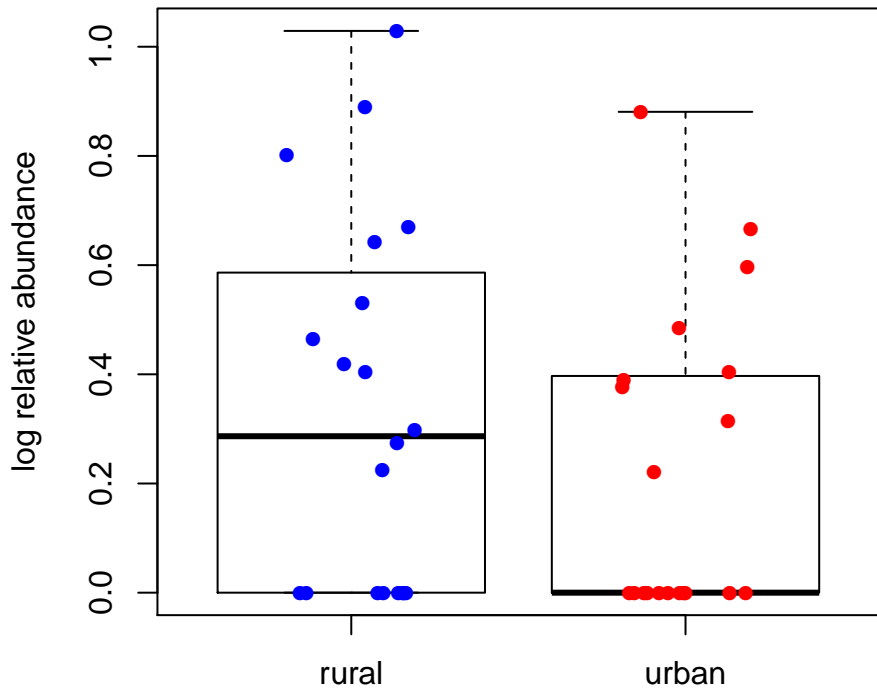
WGS family: Magnetococcaceae
pAdjRuralUrban= 0.324

WGS family: Anaeromyxobacteraceae
pAdjRuralUrban= 0.327
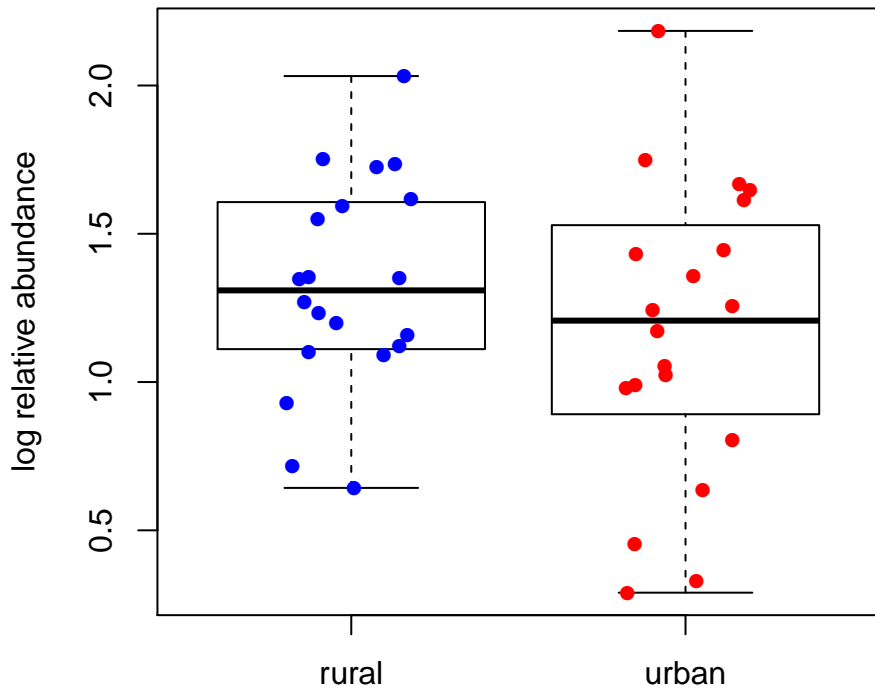
WGS family: Methanomicrobiaceae
pAdjRuralUrban= 0.333

WGS family: Hahellaceae
pAdjRuralUrban= 0.336
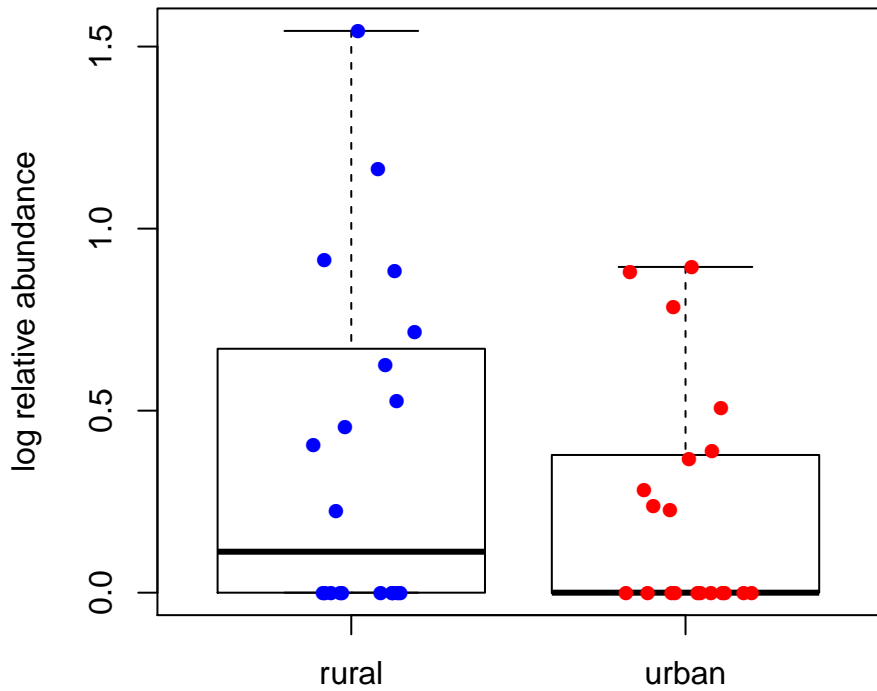
WGS family: Rikenellaceae
pAdjRuralUrban= 0.349
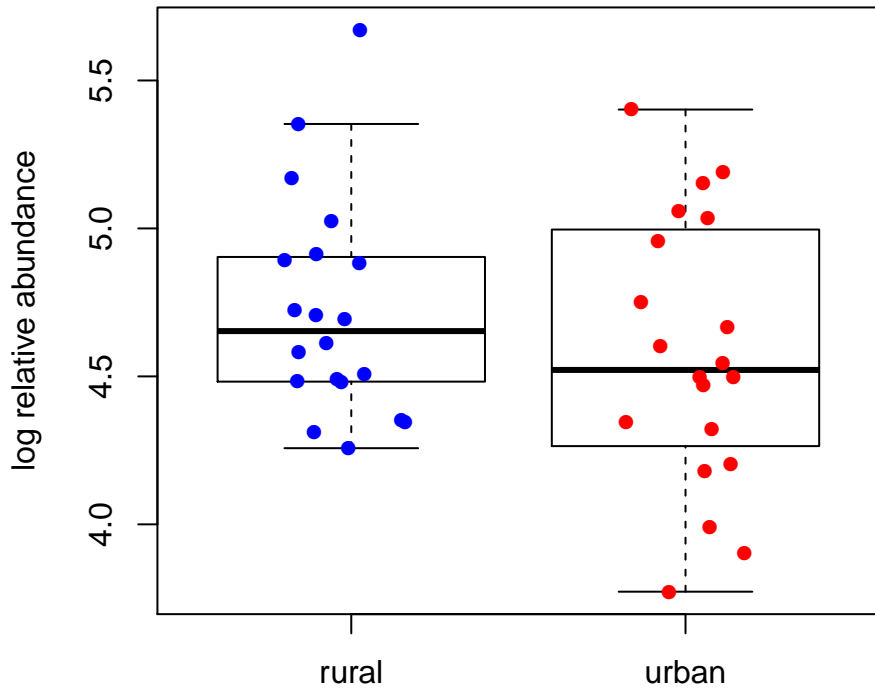
WGS family: Nautiliaceae
pAdjRuralUrban= 0.354
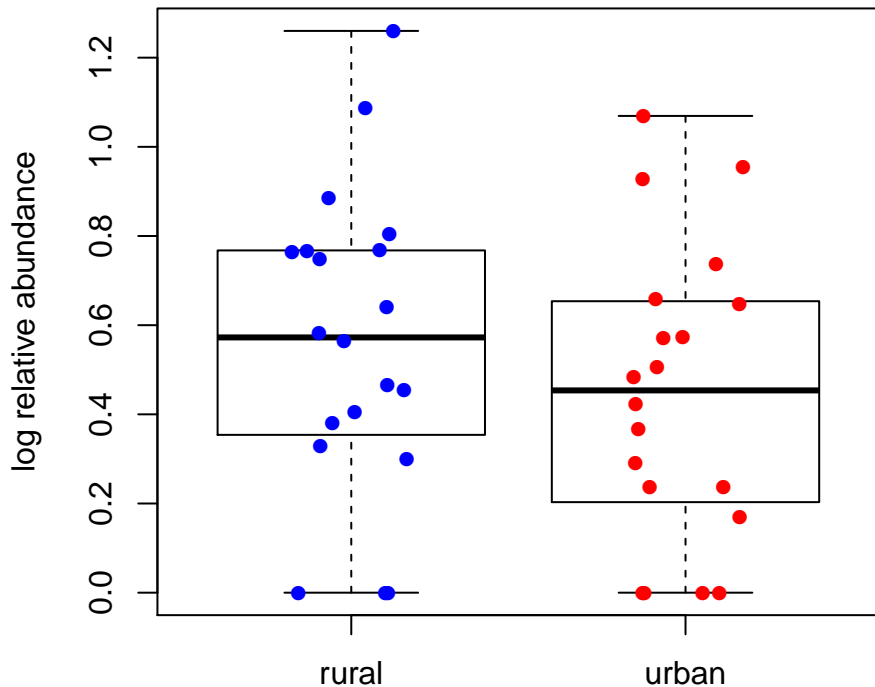
WGS family: Catenulisporaceae
pAdjRuralUrban= 0.362
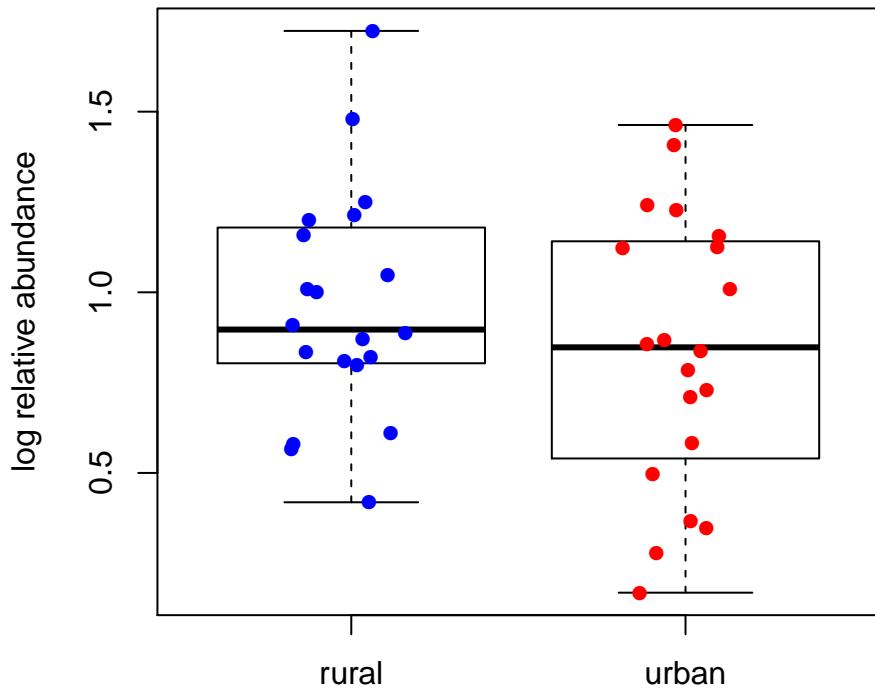
WGS family: Thermomonosporaceae
pAdjRuralUrban= 0.377

log relative abundance

rural   urban
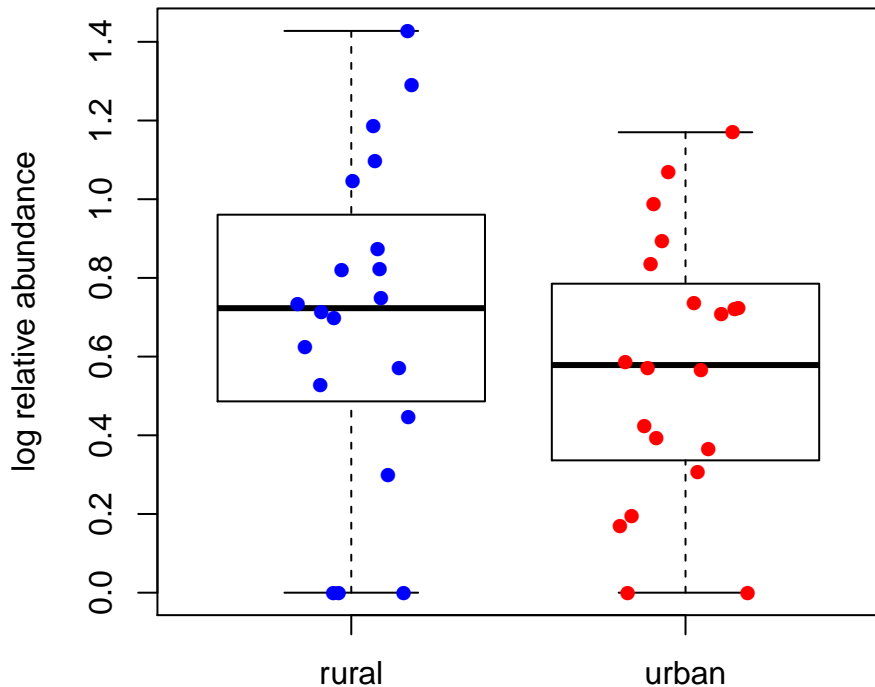
WGS family: Acidothermaceae
pAdjRuralUrban= 0.379
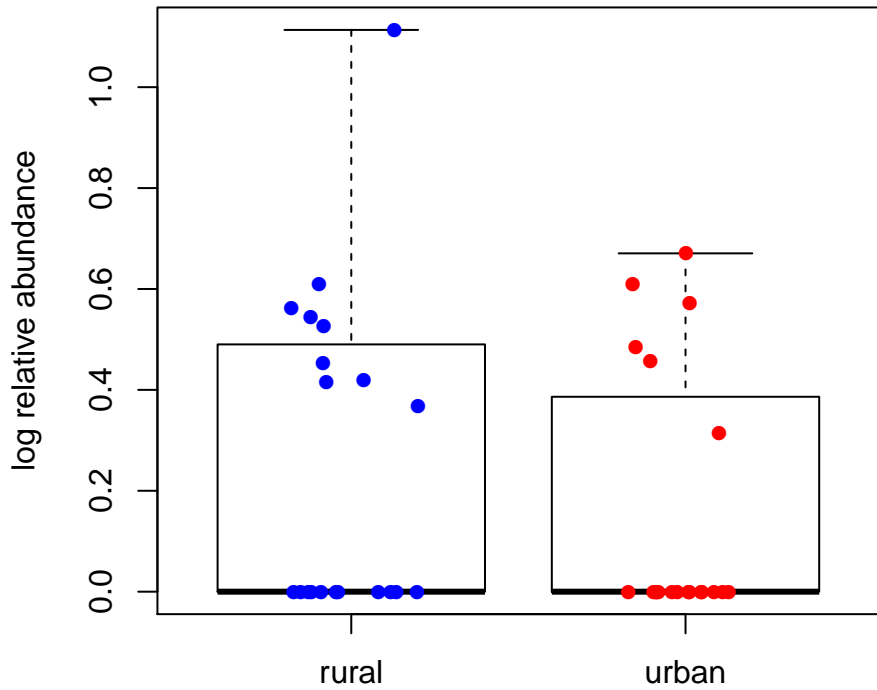
WGS family: Anaerolineaceae
pAdjRuralUrban= 0.392
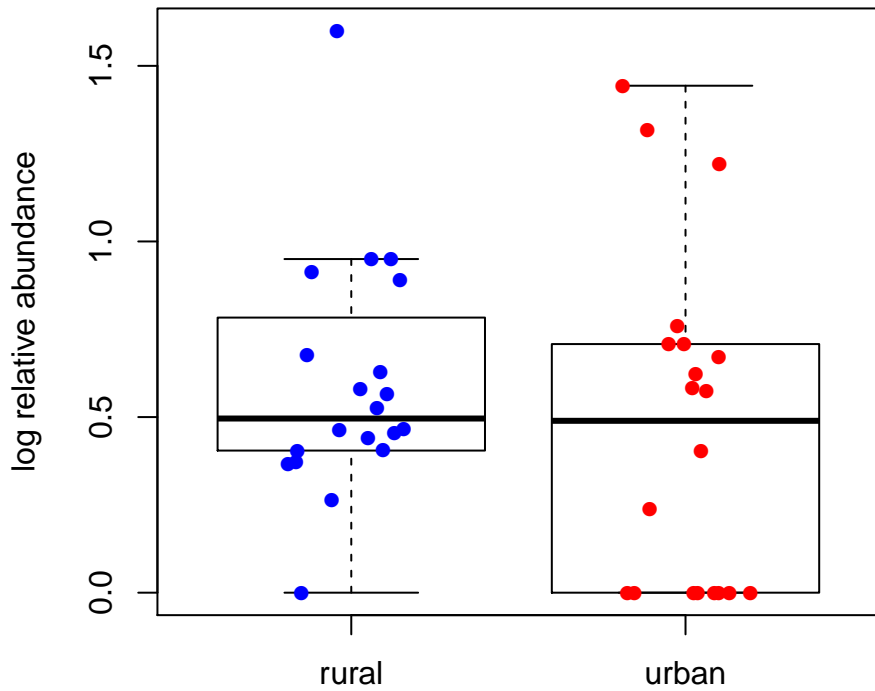
WGS family: Geodermatophilaceae
pAdjRuralUrban= 0.403
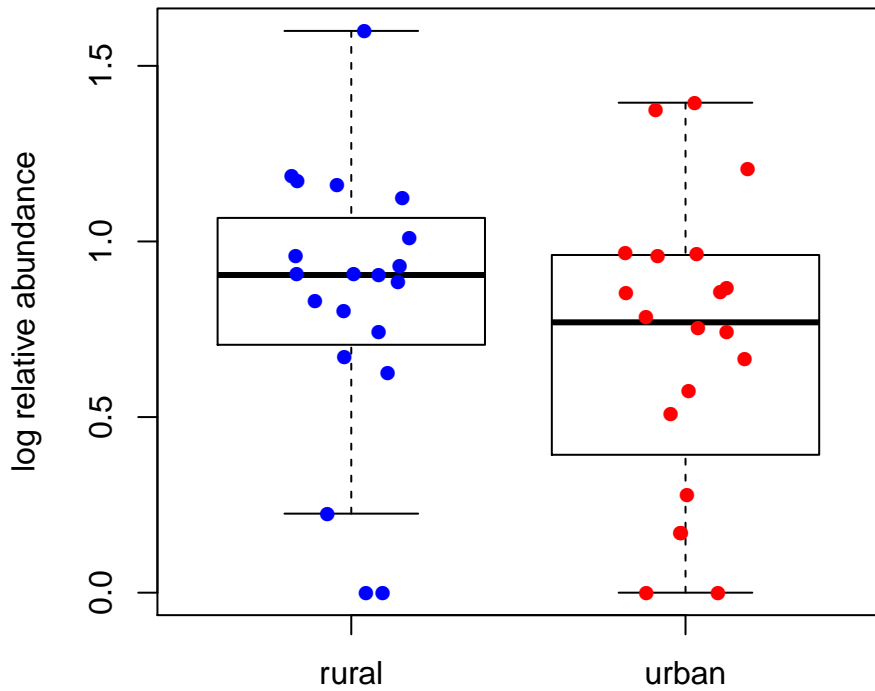
WGS family: Phycisphaeraceae
pAdjRuralUrban= 0.404
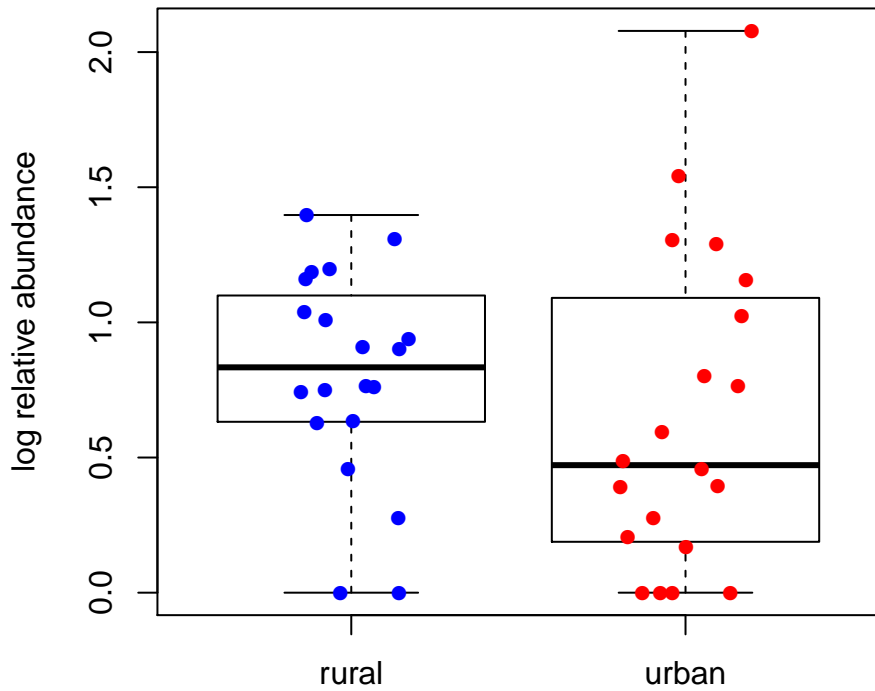
WGS family: Caldisericaceae
pAdjRuralUrban= 0.42

WGS family: Desulfurobacteriaceae
pAdjRuralUrban= 0.42
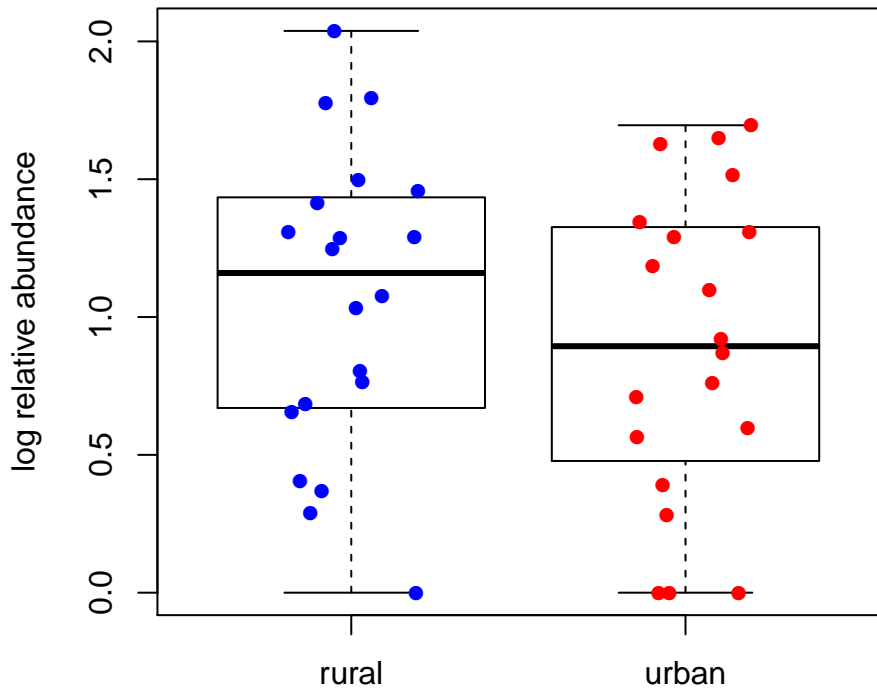
WGS family: Microbacteriaceae
pAdjRuralUrban= 0.42

WGS family: Parachlamydiaceae
pAdjRuralUrban= 0.422
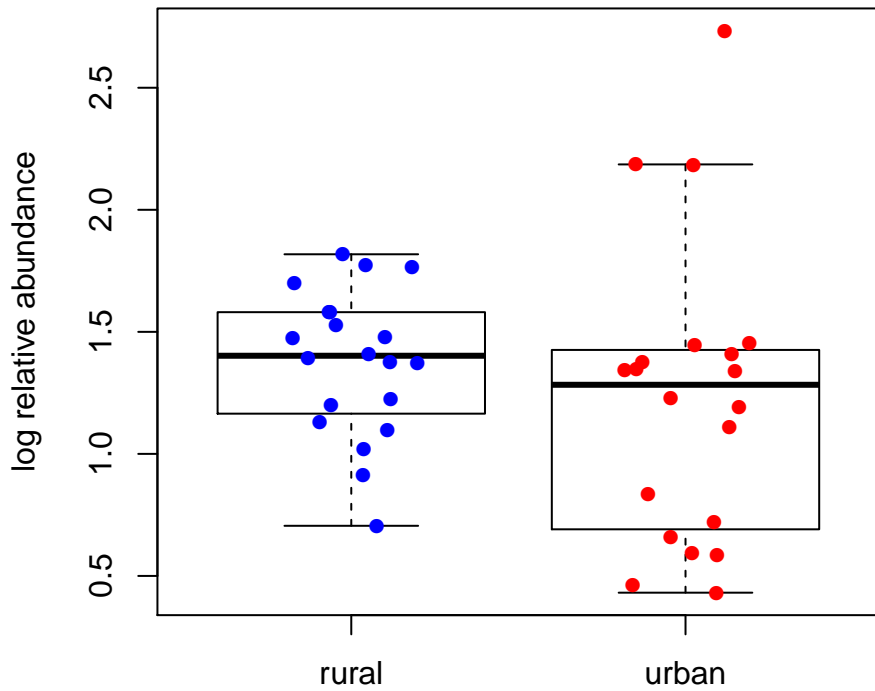
WGS family: Leuconostocaceae
pAdjRuralUrban= 0.427
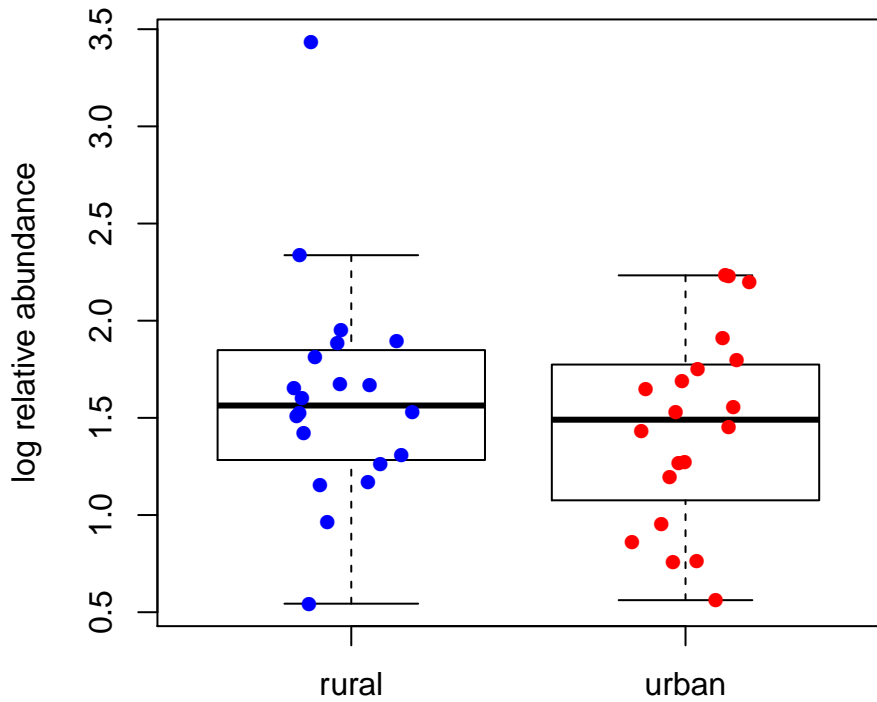
WGS family: Mycobacteriaceae
pAdjRuralUrban= 0.428

log relative abundance
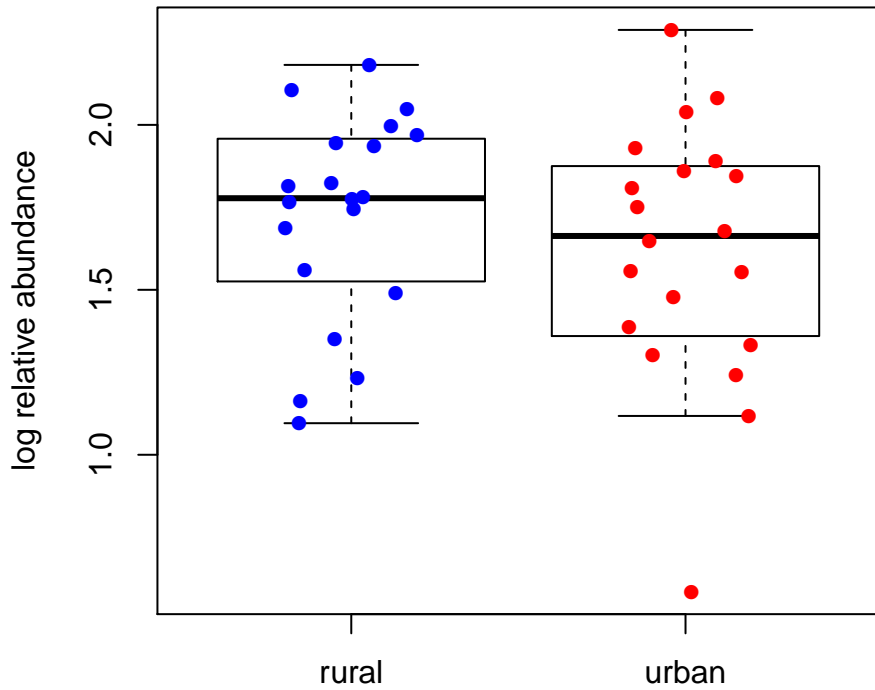
rural   urban

WGS family: Myoviridae
pAdjRuralUrban= 0.431
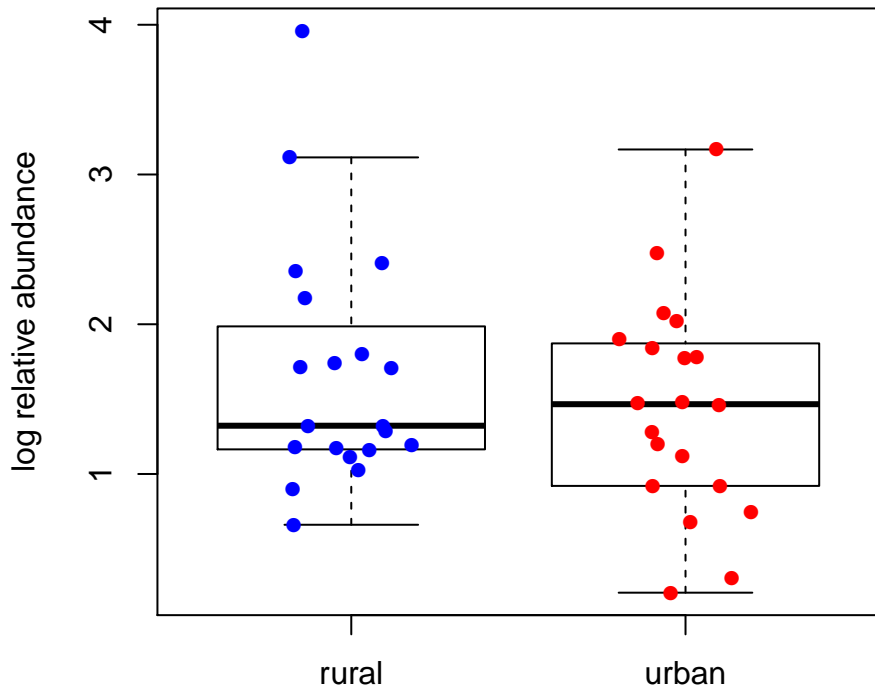
WGS family: Helicobacteraceae
pAdjRuralUrban= 0.431
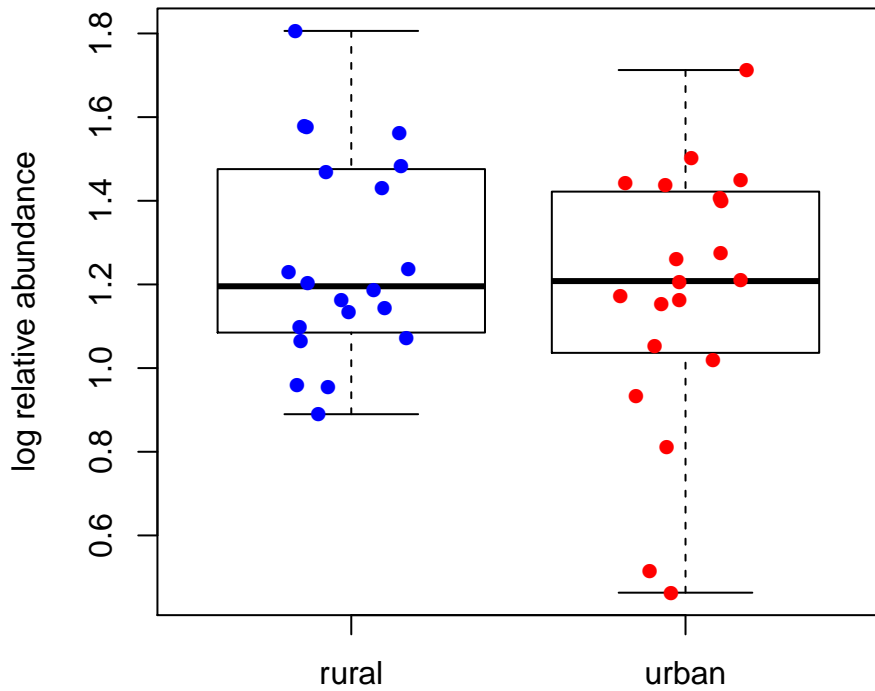
WGS family: Colwelliaceae
pAdjRuralUrban= 0.459

WGS family: Methanocorpusculaceae
pAdjRuralUrban= 0.459
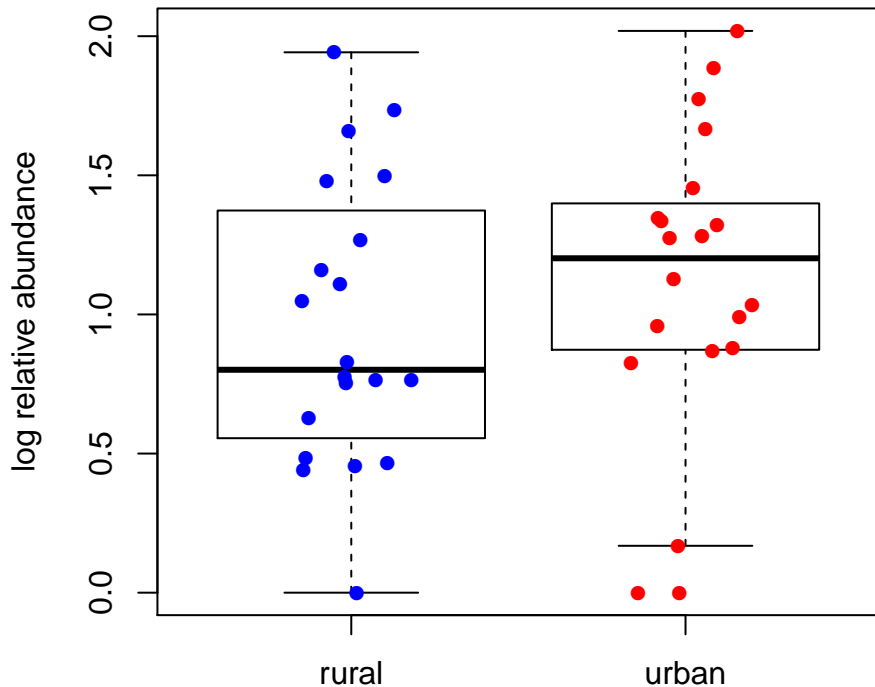
WGS family: Verrucomicrobiaceae
pAdjRuralUrban= 0.465
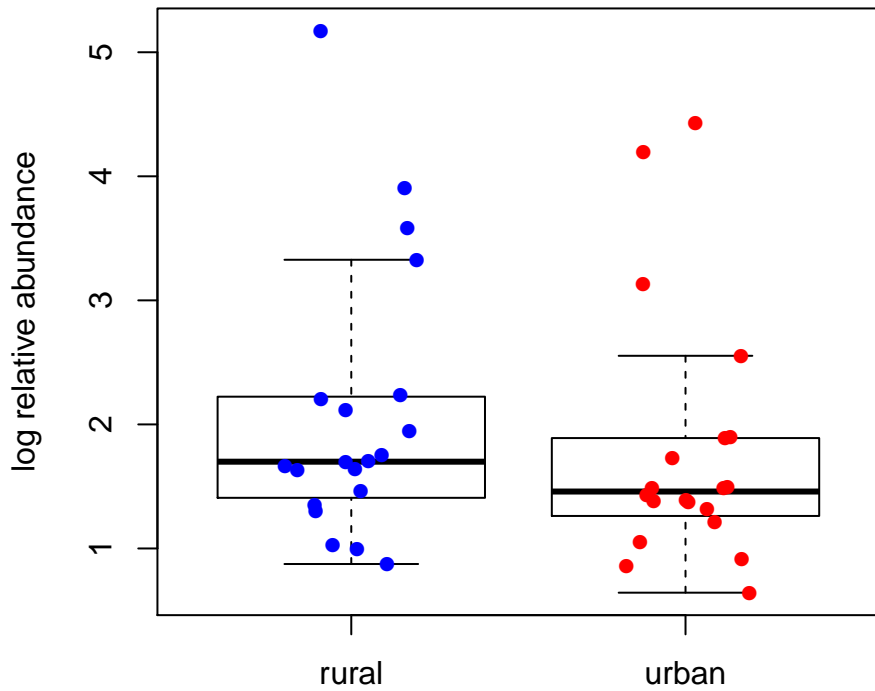
WGS family: Sphaerobacteraceae
pAdjRuralUrban= 0.49

WGS family: Parvularculaceae
pAdjRuralUrban= 0.512
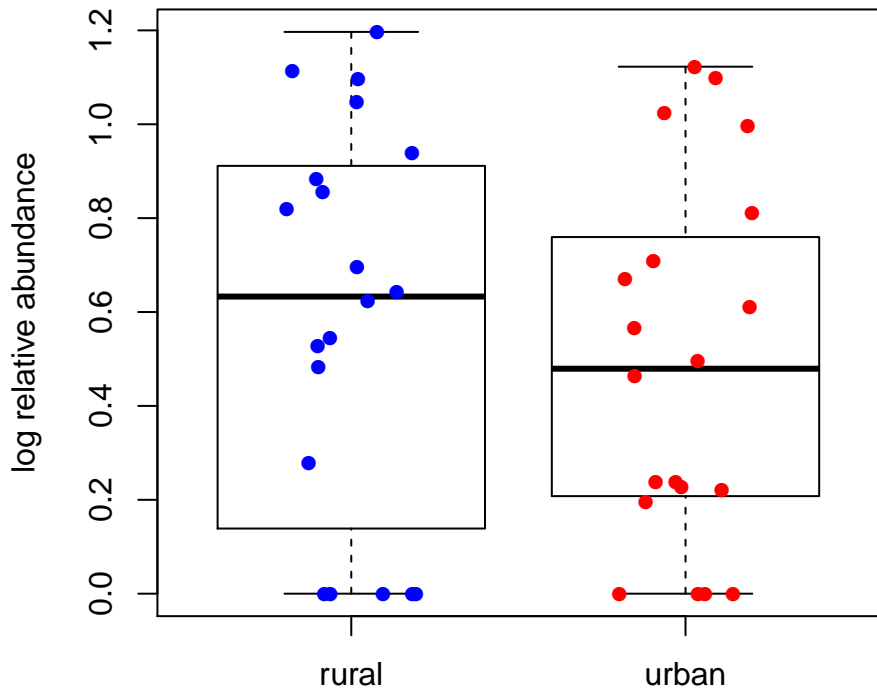
WGS family: Syntrophomonadaceae
pAdjRuralUrban= 0.535

WGS family: Alcanivoracaceae
pAdjRuralUrban= 0.559

WGS family: Thermodesulfobiaceae
pAdjRuralUrban= 0.567

WGS family: Legionellaceae
pAdjRuralUrban= 0.575

WGS family: Nakamurellaceae
pAdjRuralUrban= 0.591

WGS family: Chthonomonadaceae
pAdjRuralUrban= 0.598

WGS family: Beijerinckiaceae
pAdjRuralUrban= 0.605
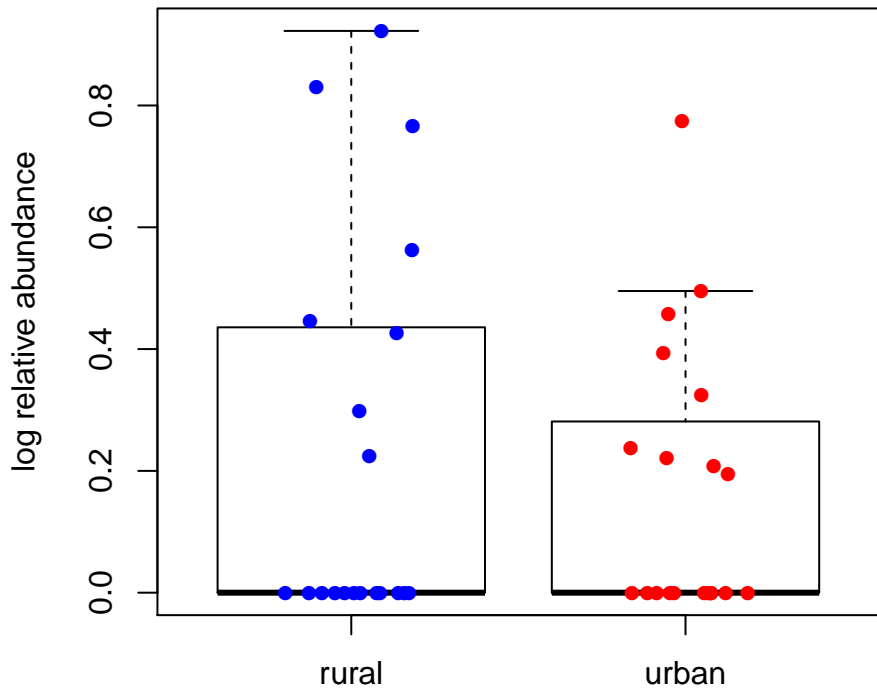
WGS family: Rhodobiaceae
pAdjRuralUrban= 0.615
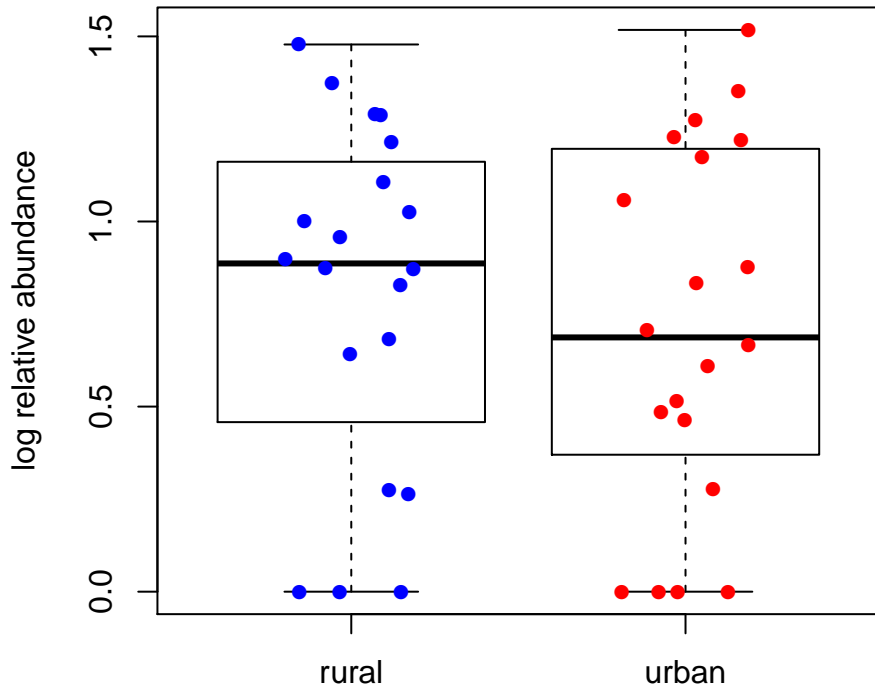
WGS family: Melioribacteraceae
pAdjRuralUrban= 0.615

WGS family: Natranaerobiaceae
pAdjRuralUrban= 0.622

log relative abundance

rural   urban

WGS family: Enterobacteriaceae
pAdjRuralUrban= 0.639
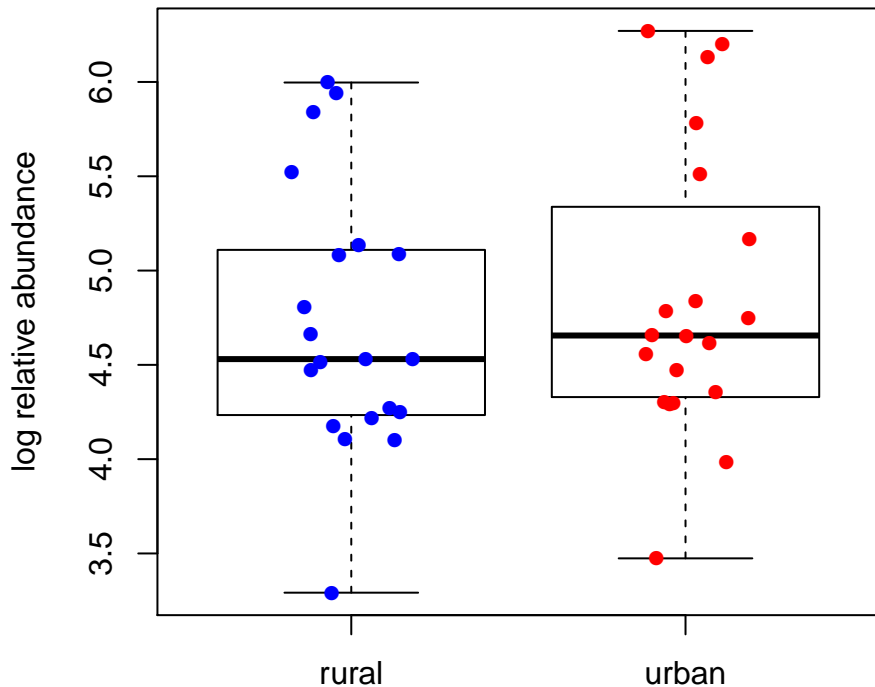
WGS family: Fusobacteriaceae
pAdjRuralUrban= 0.645

WGS family: Syntrophobacteraceae
pAdjRuralUrban= 0.687

WGS family: Siphoviridae
pAdjRuralUrban= 0.687

WGS family: Methanococcaceae
pAdjRuralUrban= 0.694
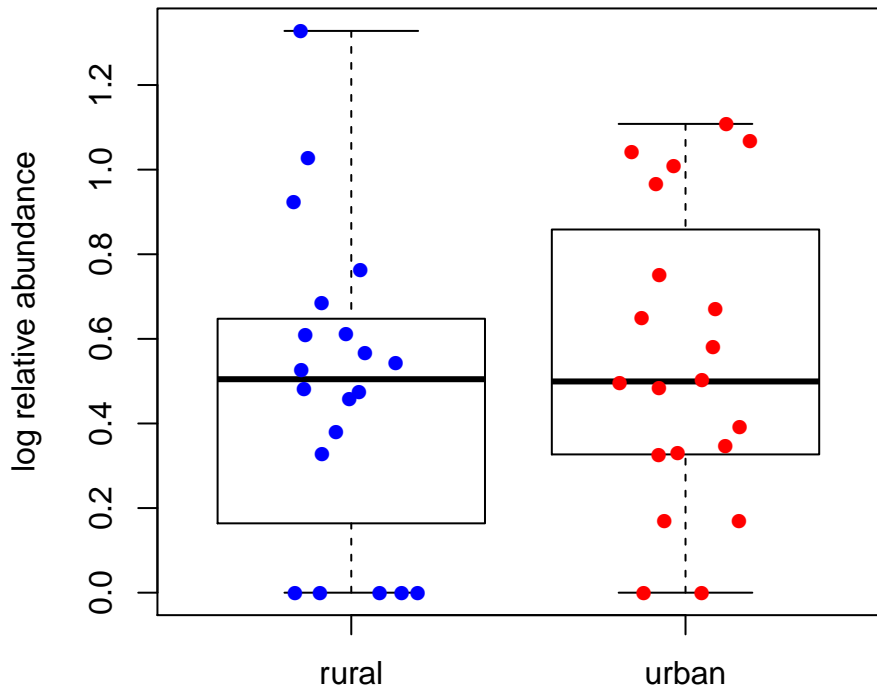
WGS family: Elusimicrobiaceae
pAdjRuralUrban= 0.708

WGS family: Segniliparaceae
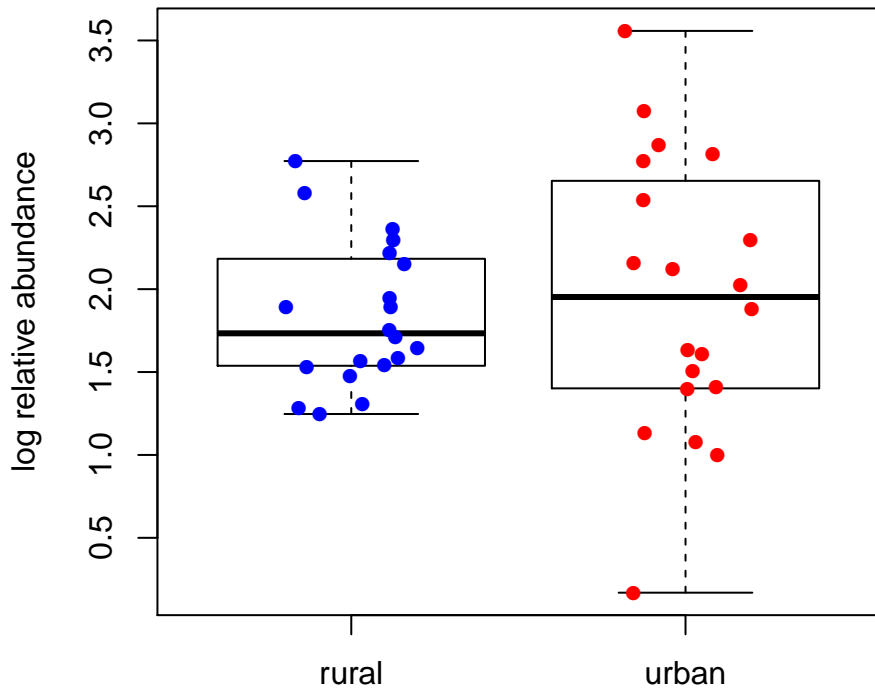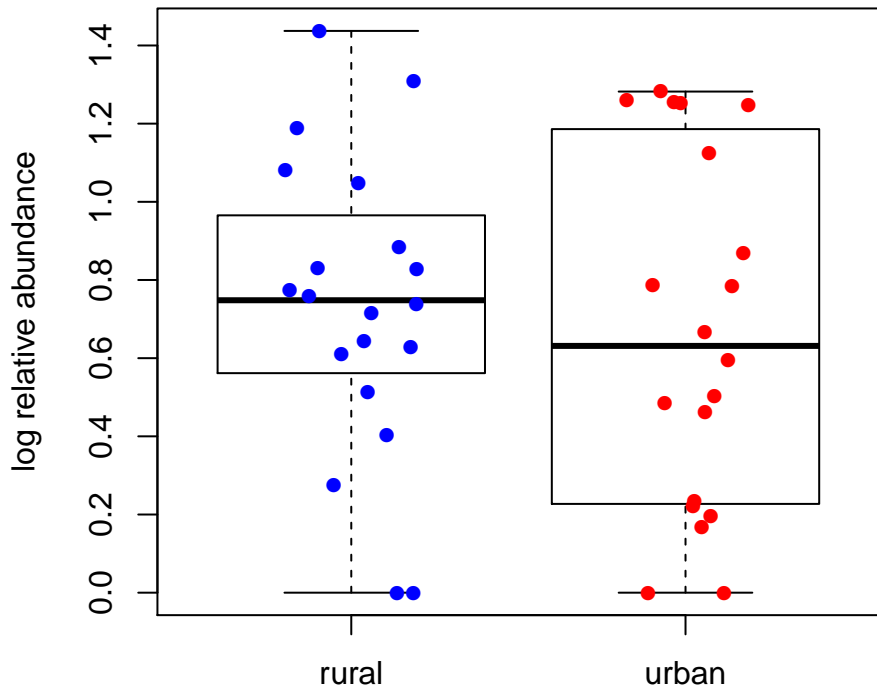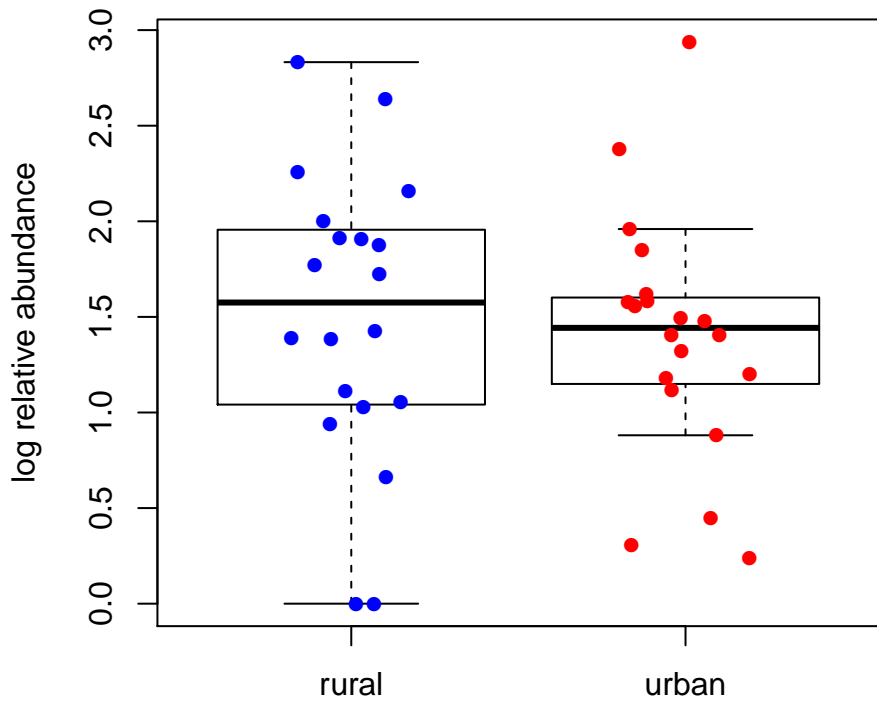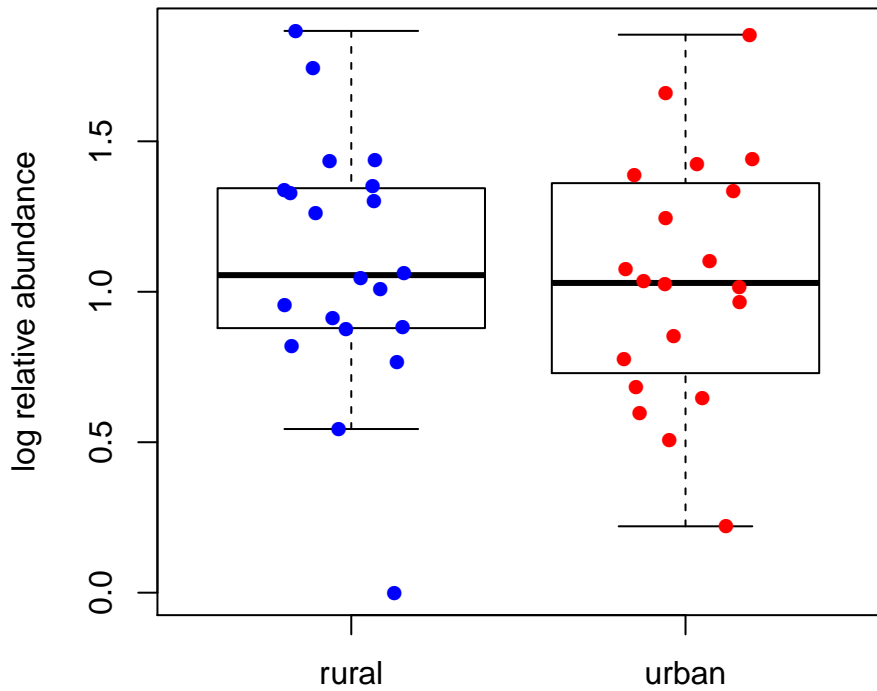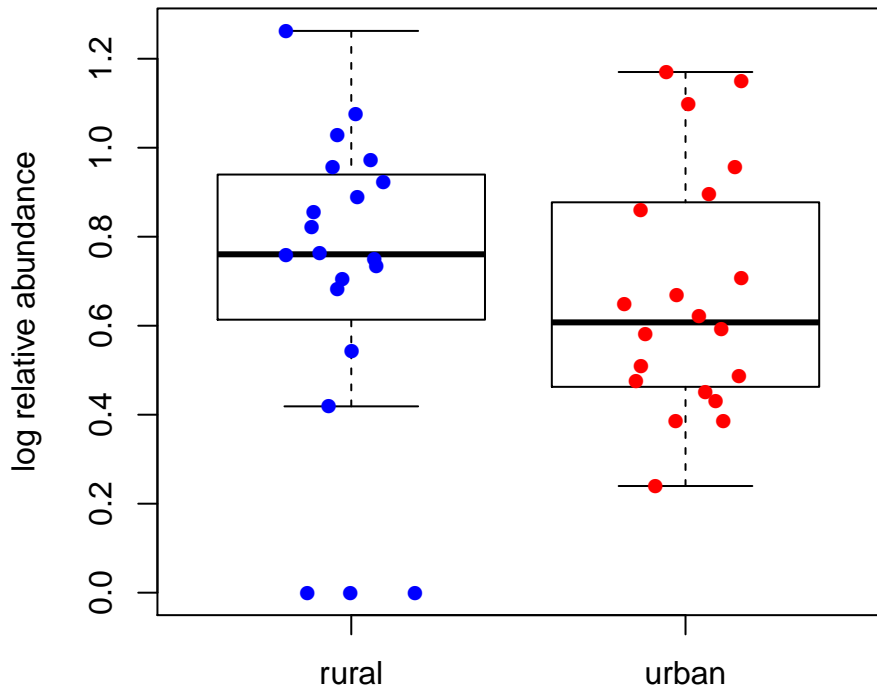**pAdjRuralUrban= 0.711**
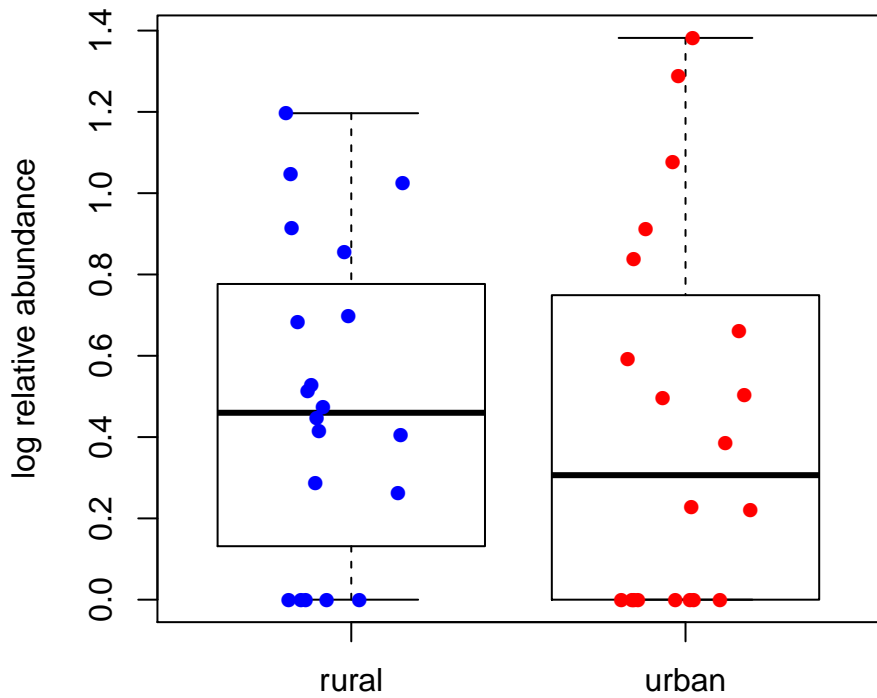
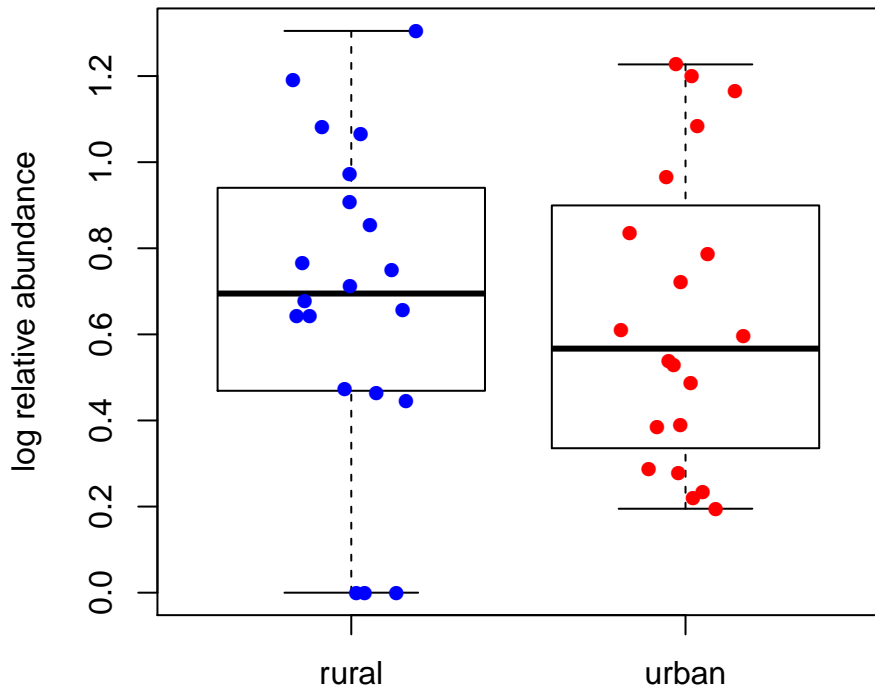**WGS family: Thermoanaerobacterales_Family_IV._Incertae_Se**
pAdjRuralUrban= 0.719

WGS family: Dictyoglomaceae
pAdjRuralUrban= 0.719

log relative abundance

rural   urban

WGS family: Rubrobacteraceae
pAdjRuralUrban= 0.737

WGS family: Nocardioidaceae
pAdjRuralUrban= 0.753

WGS family: Beutenbergiaceae
pAdjRuralUrban= 0.814
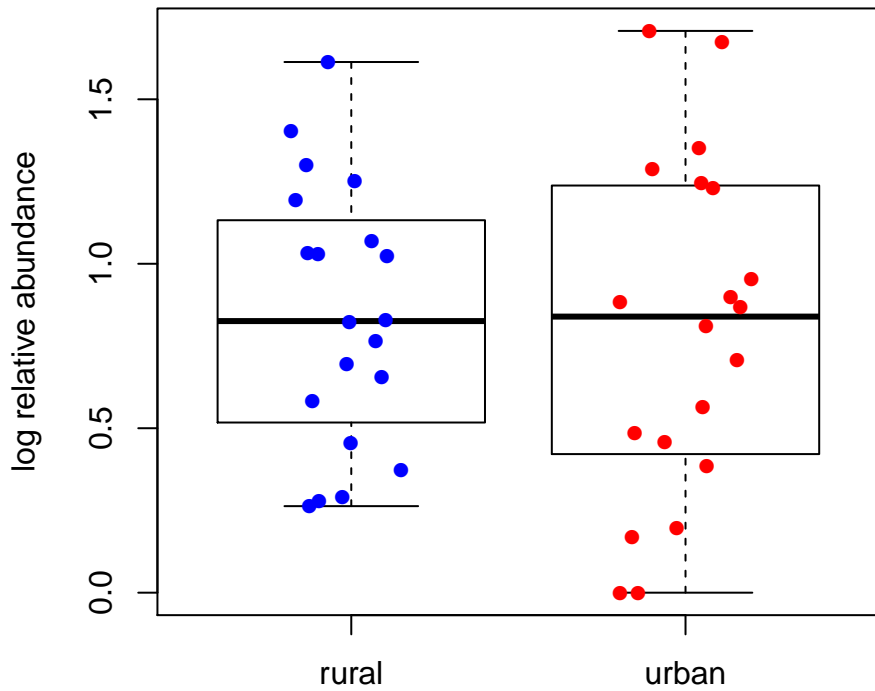
WGS family: Porphyromonadaceae
pAdjRuralUrban= 0.83
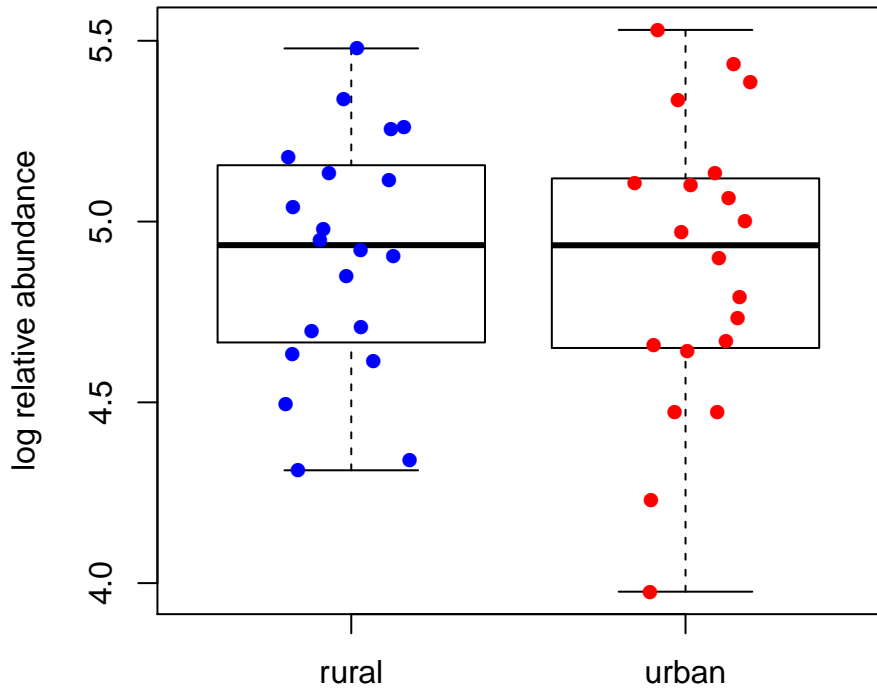
WGS family: Methanocellaceae
pAdjRuralUrban= 0.839

WGS family: Campylobacteraceae
pAdjRuralUrban= 0.916

WGS family: Podoviridae
pAdjRuralUrban= 0.921
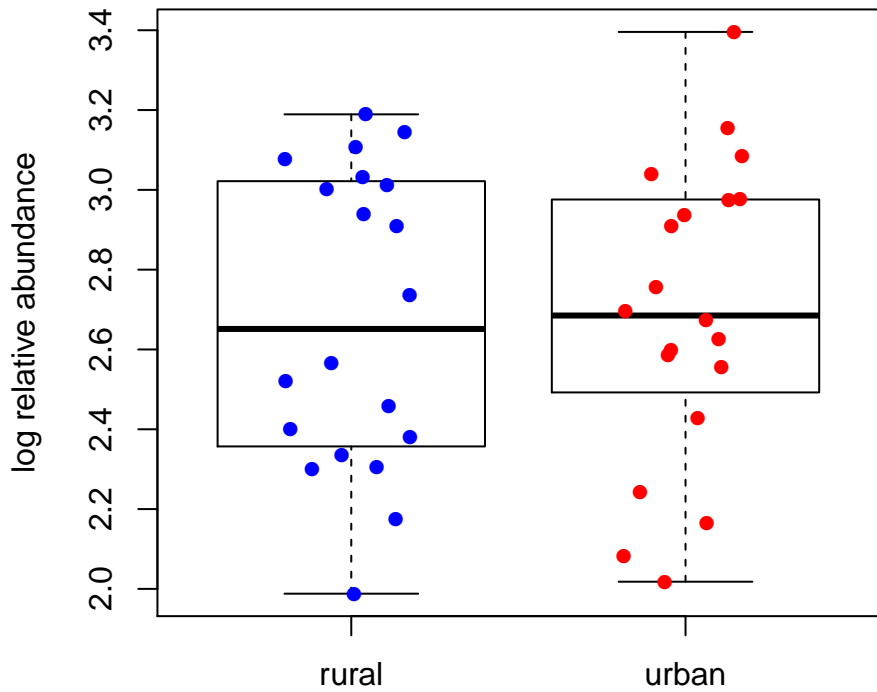
WGS family: Hydrogenophilaceae
pAdjRuralUrban= 0.921

WGS family: Aerococcaceae
pAdjRuralUrban= 0.949

WGS family: Thermodesulfobacteriaceae
pAdjRuralUrban= 0.954

WGS family: Chloroflexaceae
pAdjRuralUrban= 0.954

WGS family: Desulfohalobiaceae
pAdjRuralUrban= 0.986