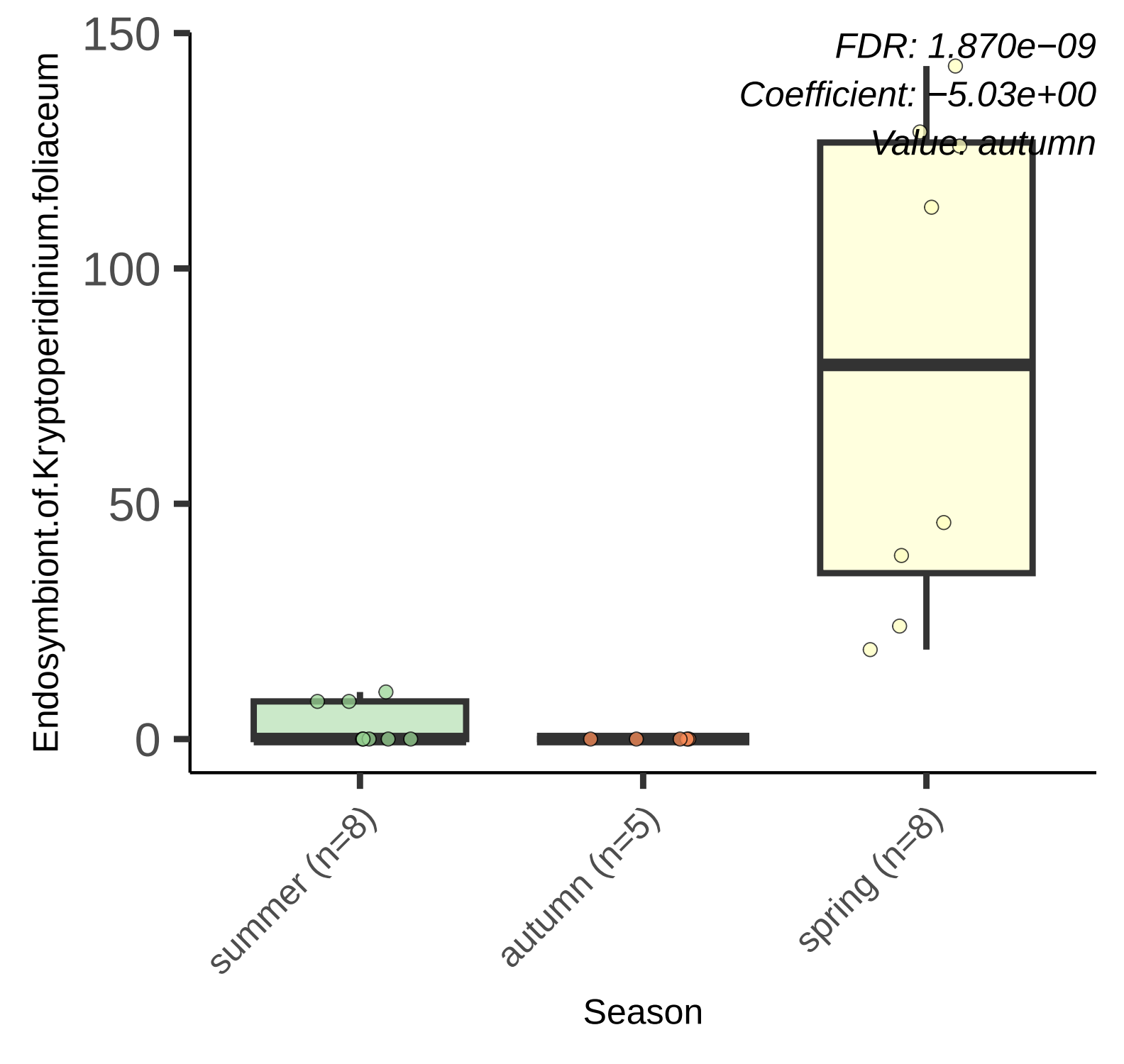
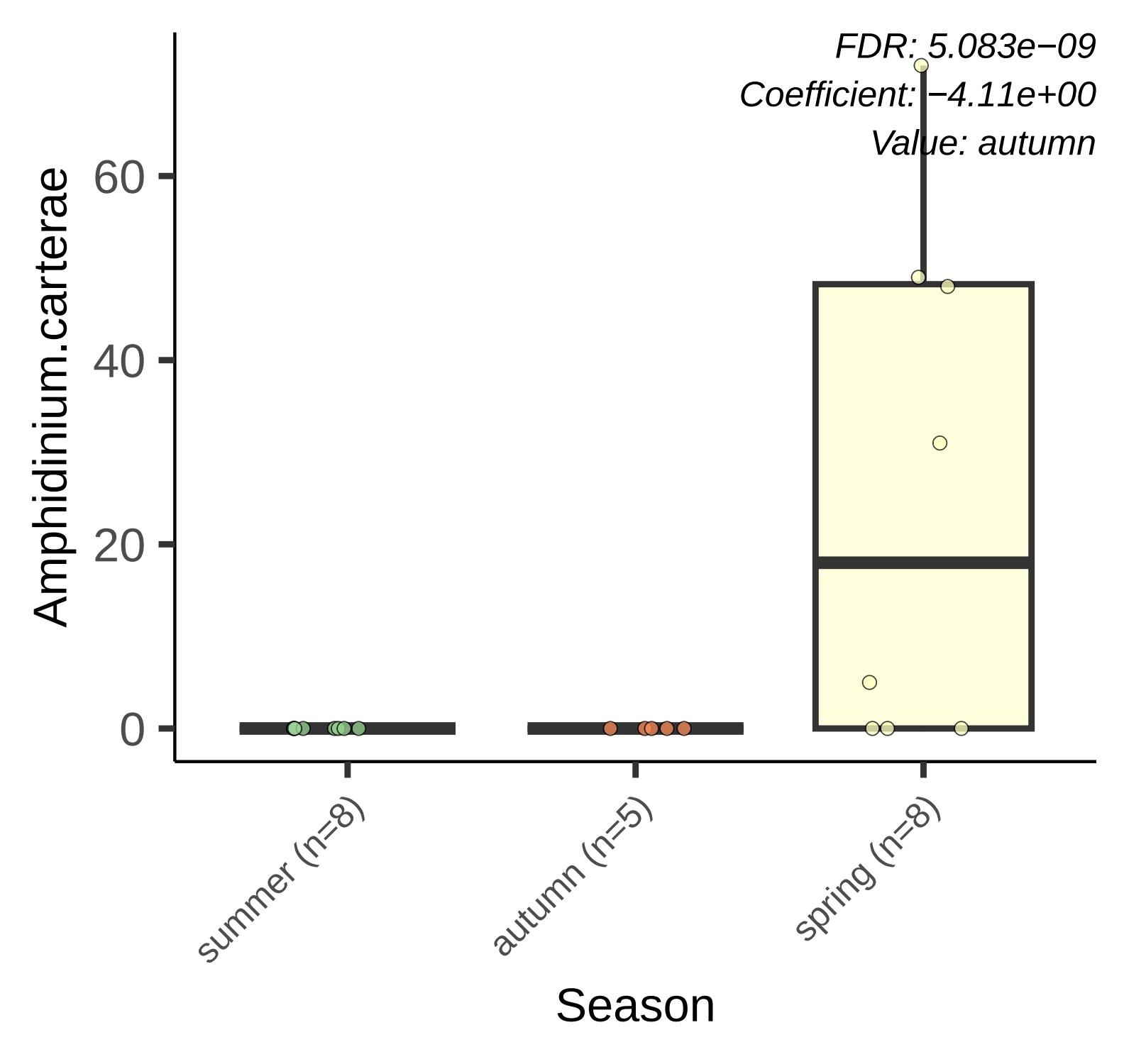
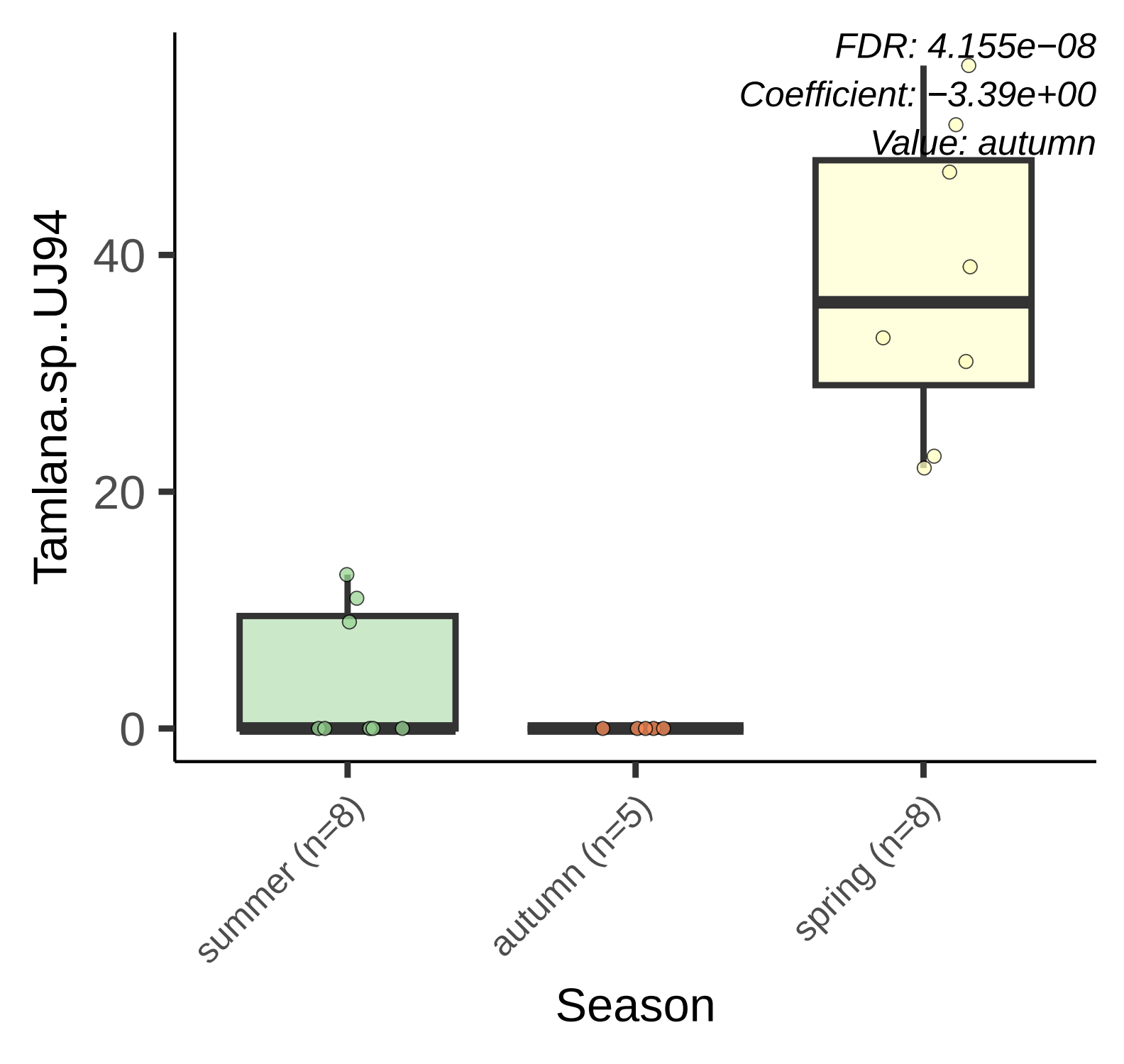
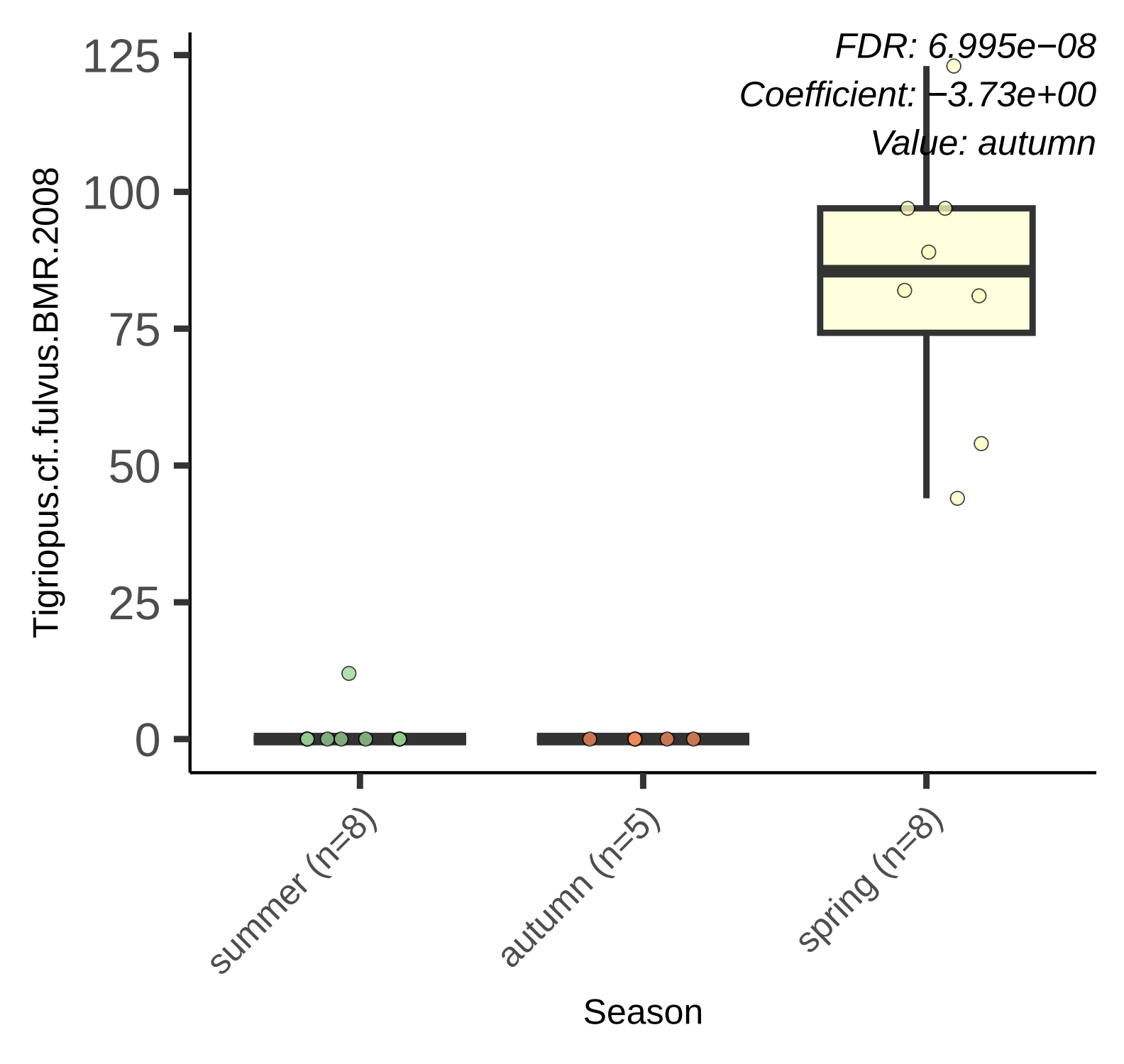
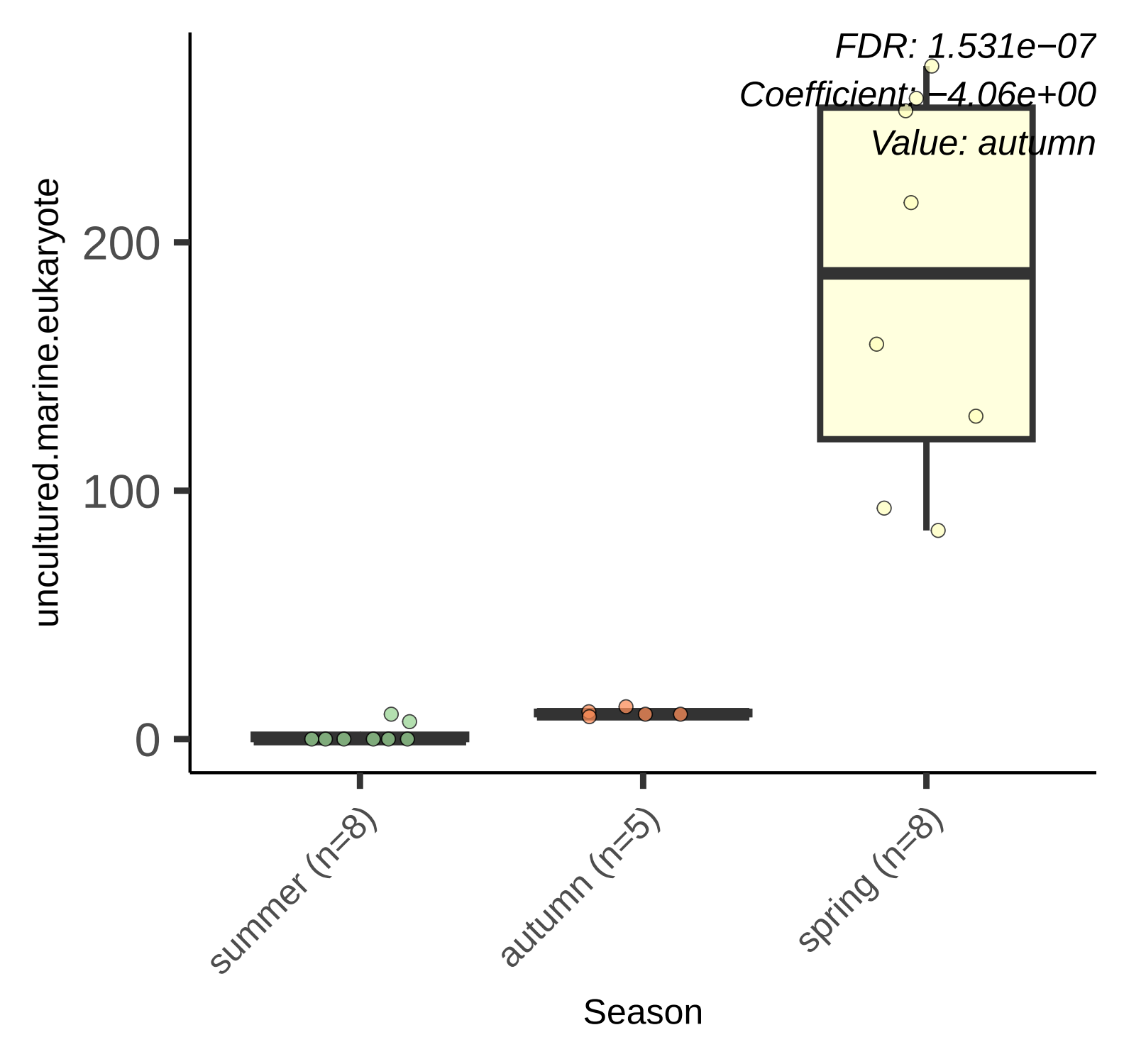
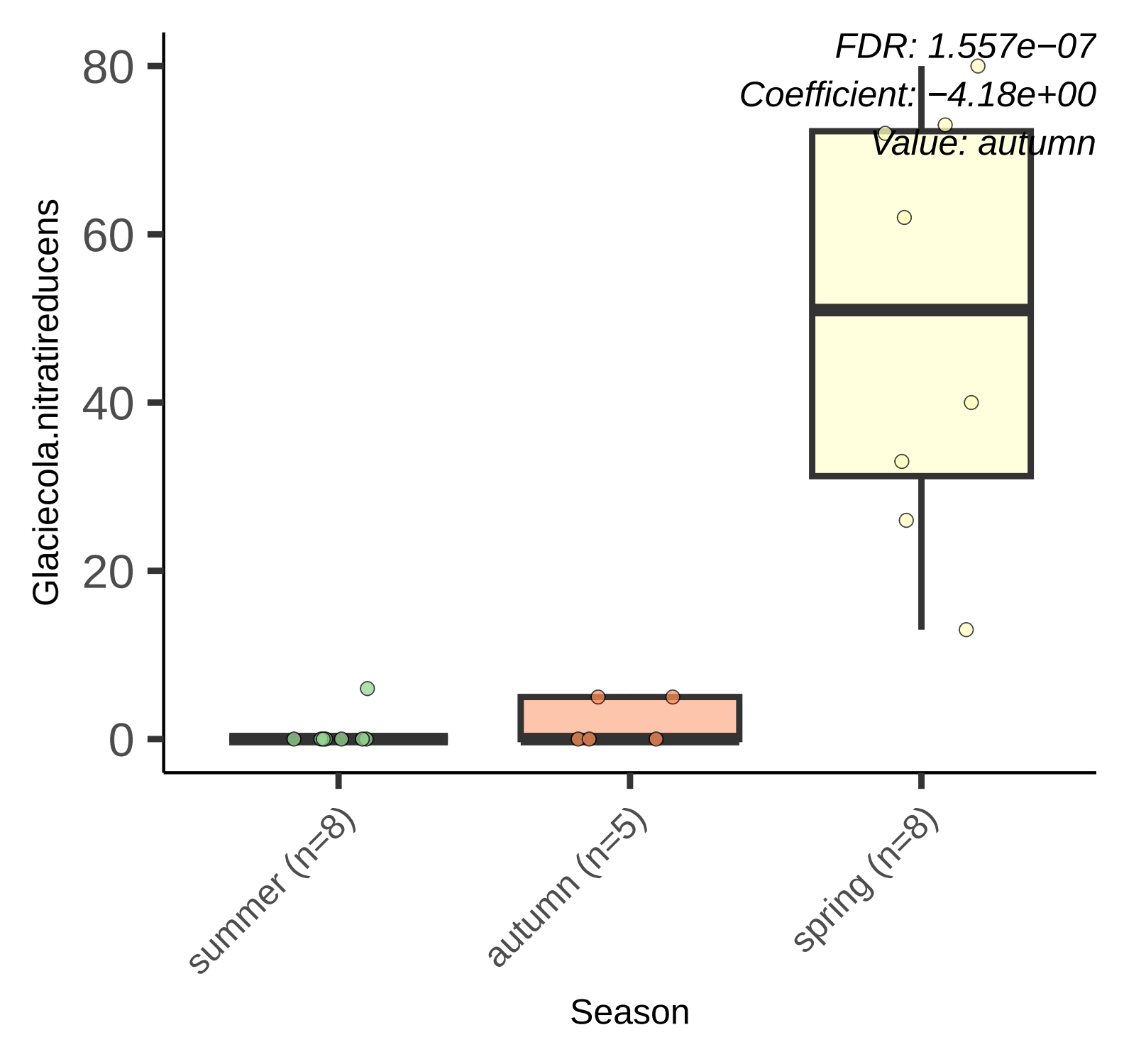

FDR: 1.870e−09
Coefficient: −5.03e+00
Value: autumn
Endosymbiont.of.Kryptoperidinium.foliaceum
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

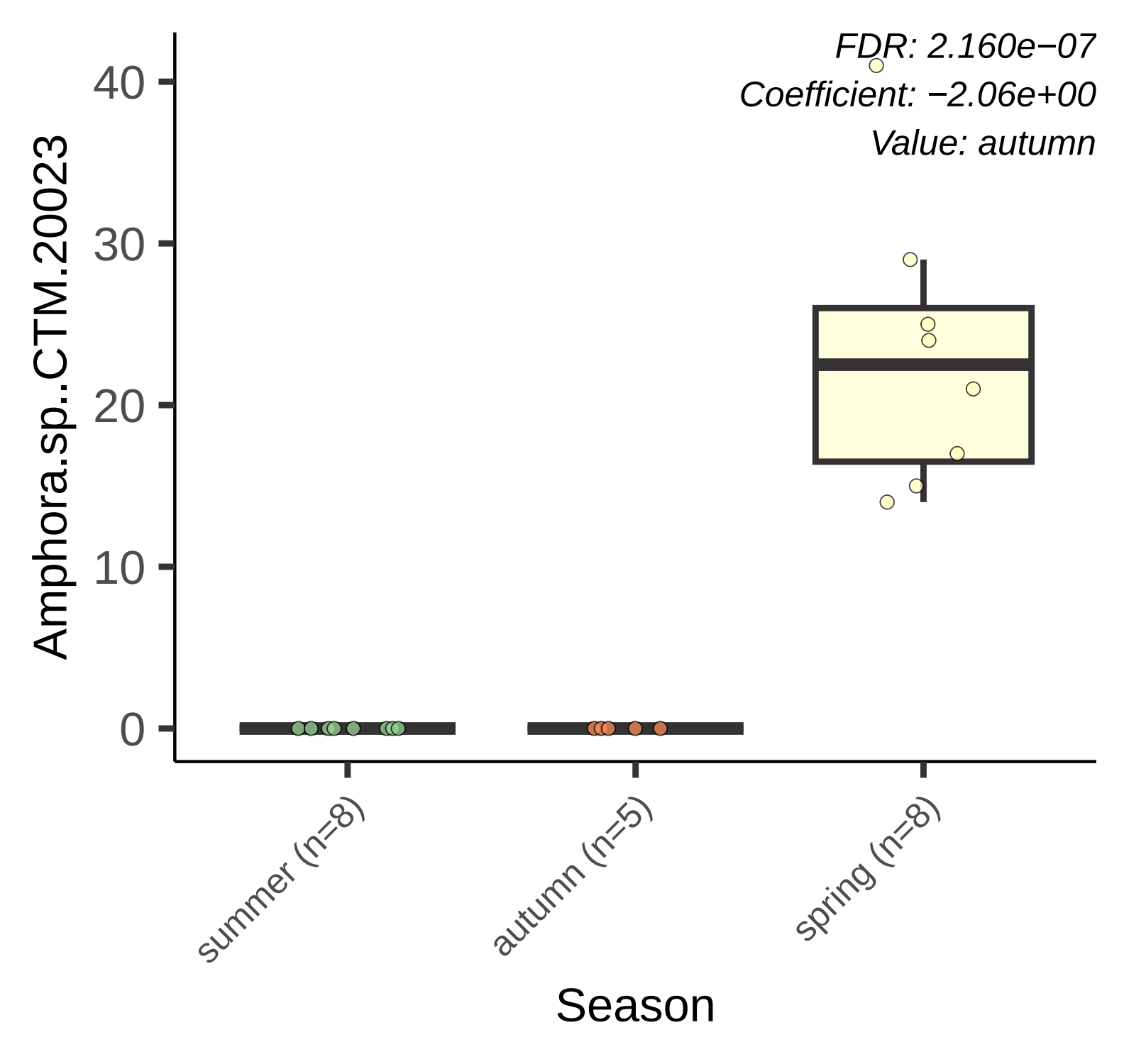

FDR: 5.083e−09
Coefficient: −4.11e+00
Value: autumn
Amphidinium.carterae
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

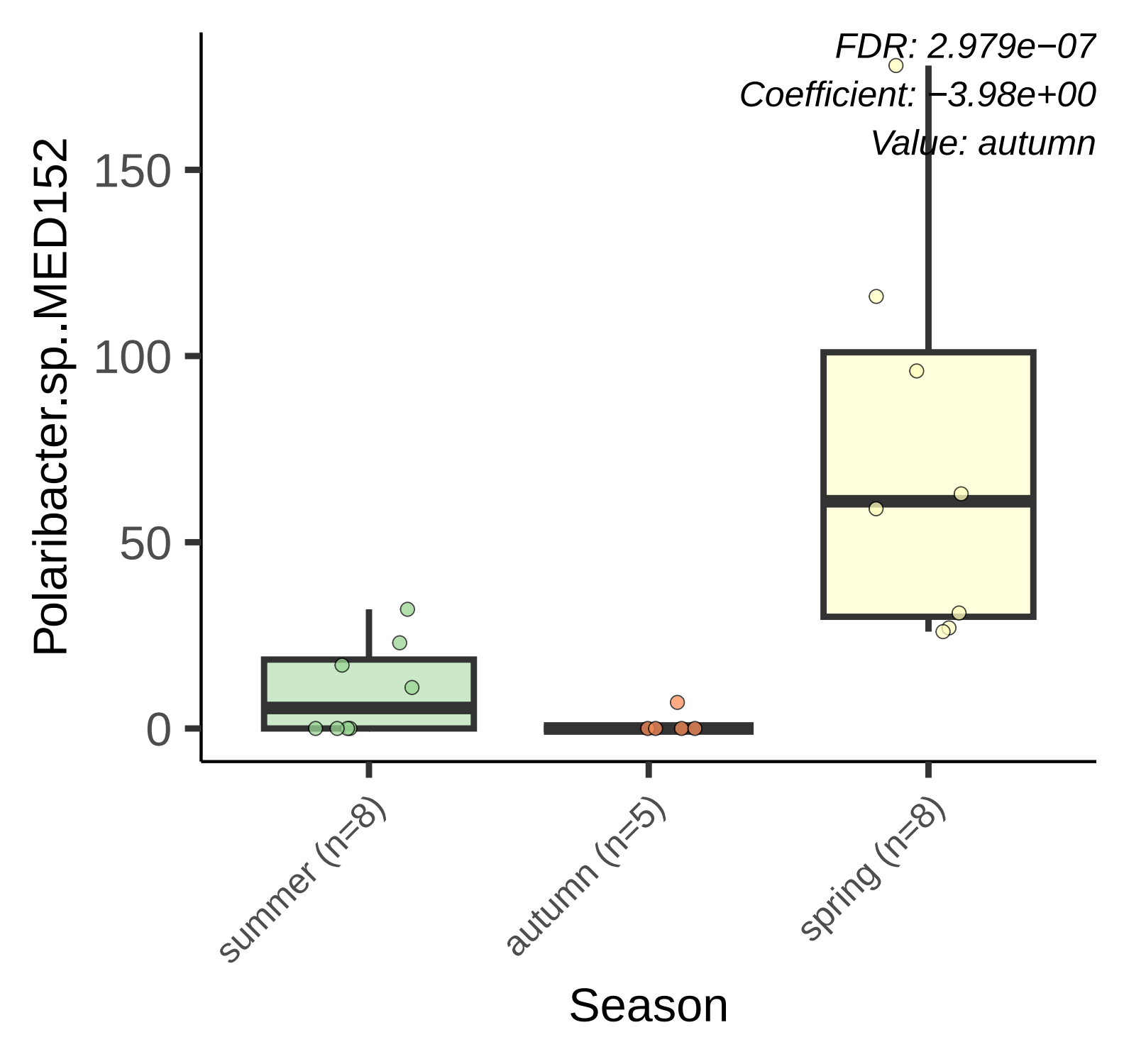

FDR: 4.155e−08
Coefficient: −3.39e+00
Value: autumn
Tamlana.sp..UJ94
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

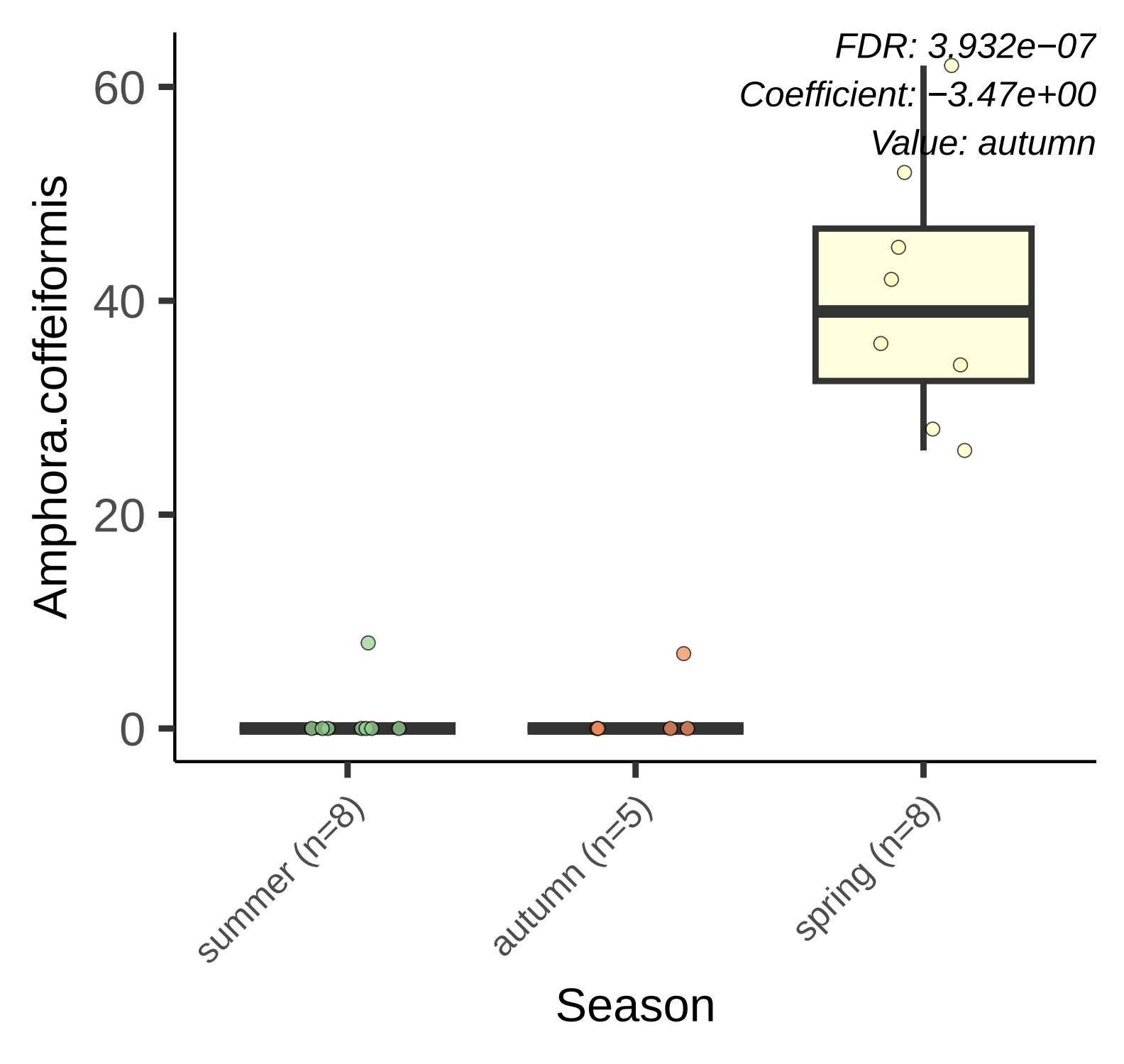

FDR: 6.995e−08
Coefficient: −3.73e+00
Value: autumn
125
100
75
50
25
0
Tigriopus.cf..fulvus.BMR.2008
summer (n=8)
autumn (n=5)
spring (n=8)
Season

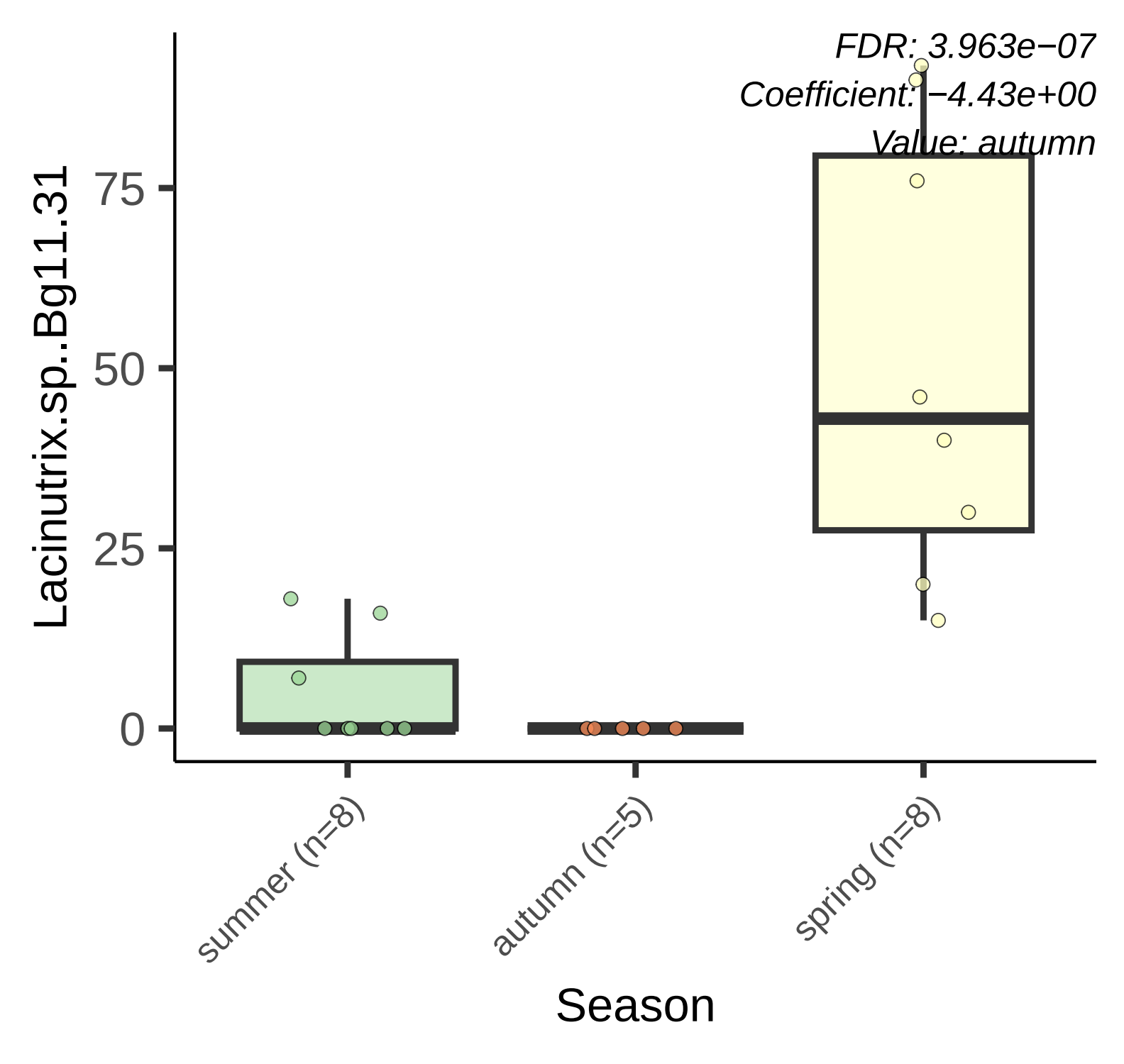

FDR: 1.531e−07
Coefficient: −4.06e+00
Value: autumn
uncultured.marine.eukaryote
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

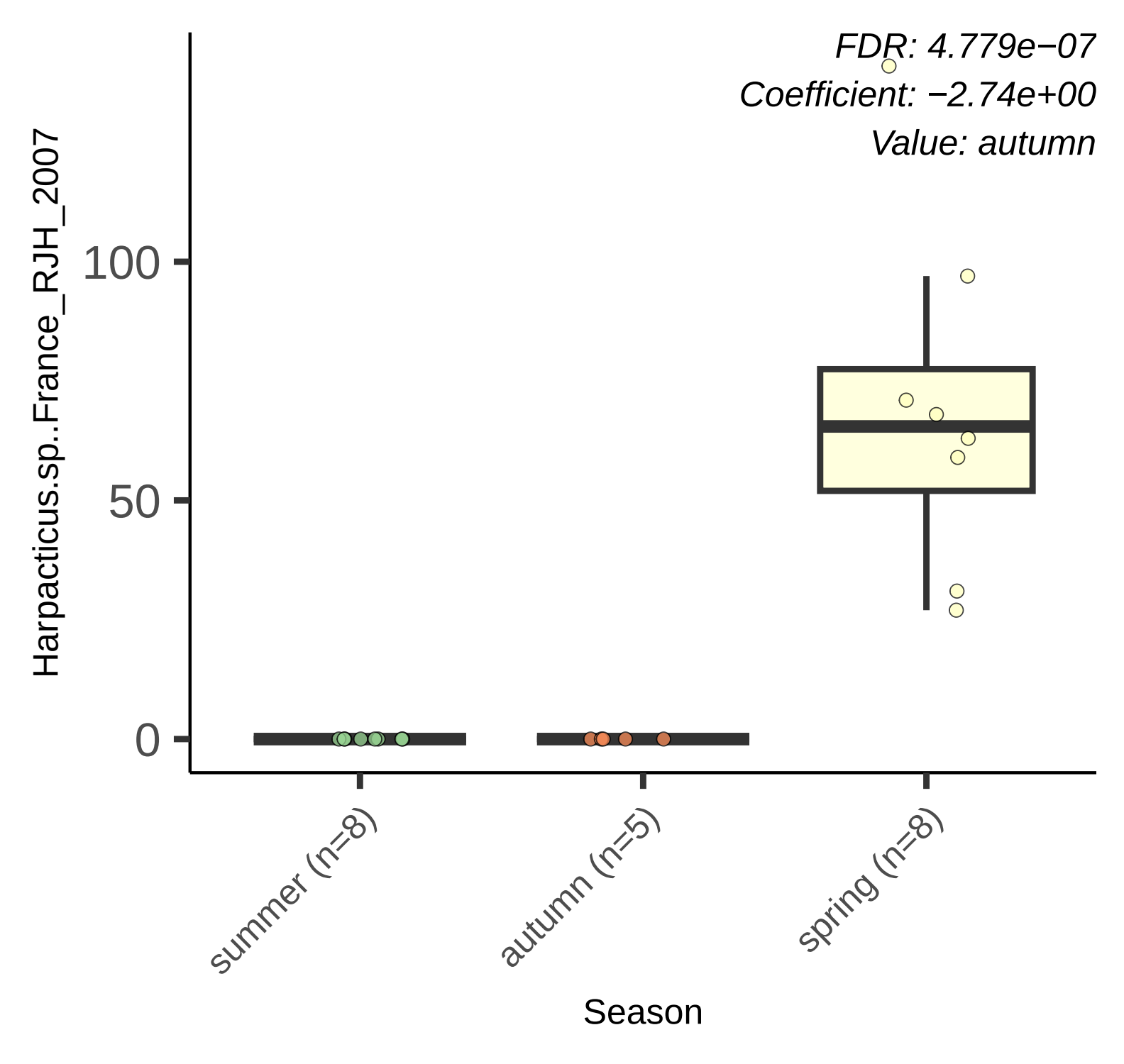

FDR: 1.557e−07
Coefficient: −4.18e+00
Value: autumn
Glaciecola.nitratireducens
80
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

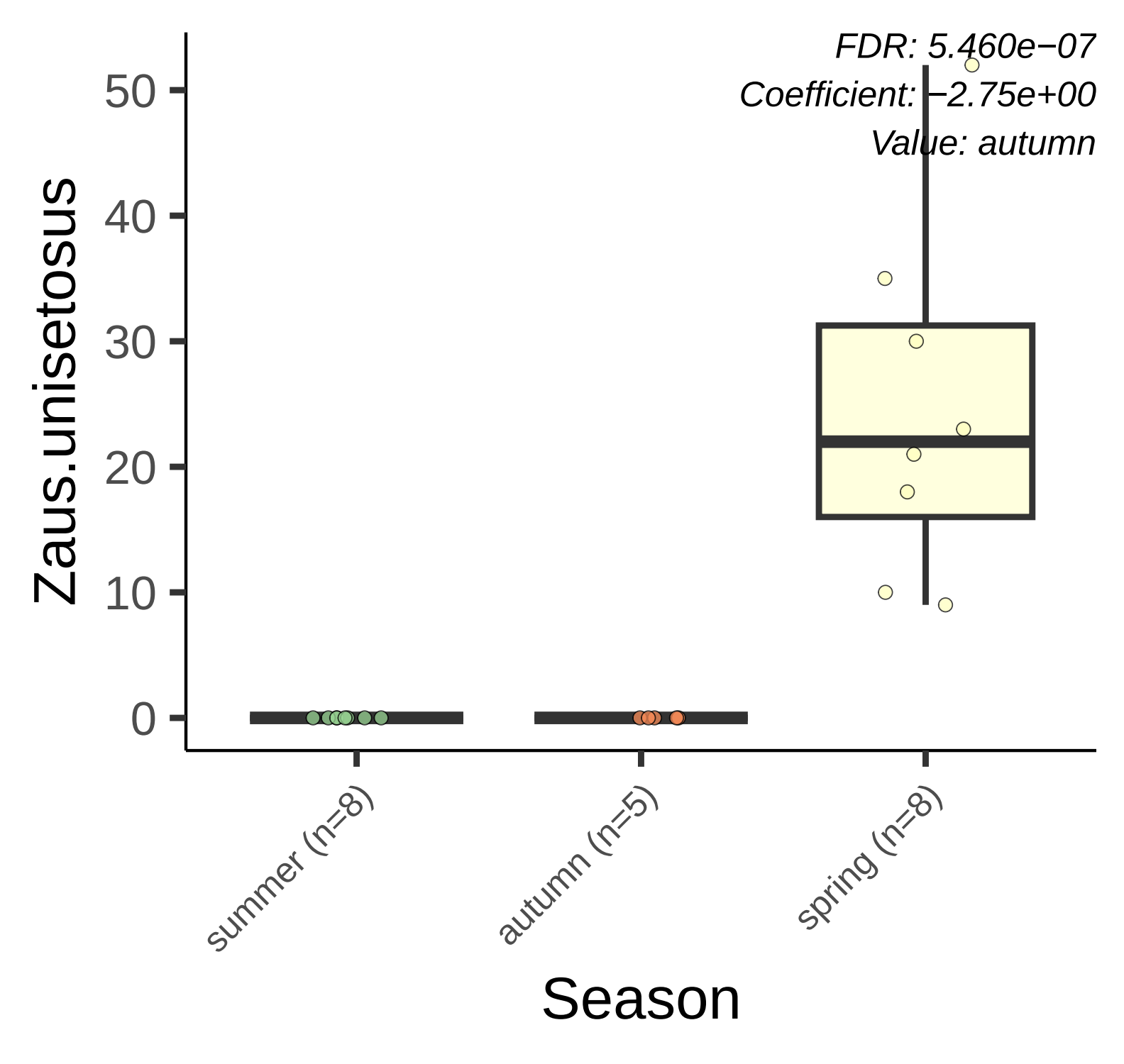

FDR: 2.160e−07
Coefficient: −2.06e+00
Value: autumn
Amphora.sp..CTM.20023
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

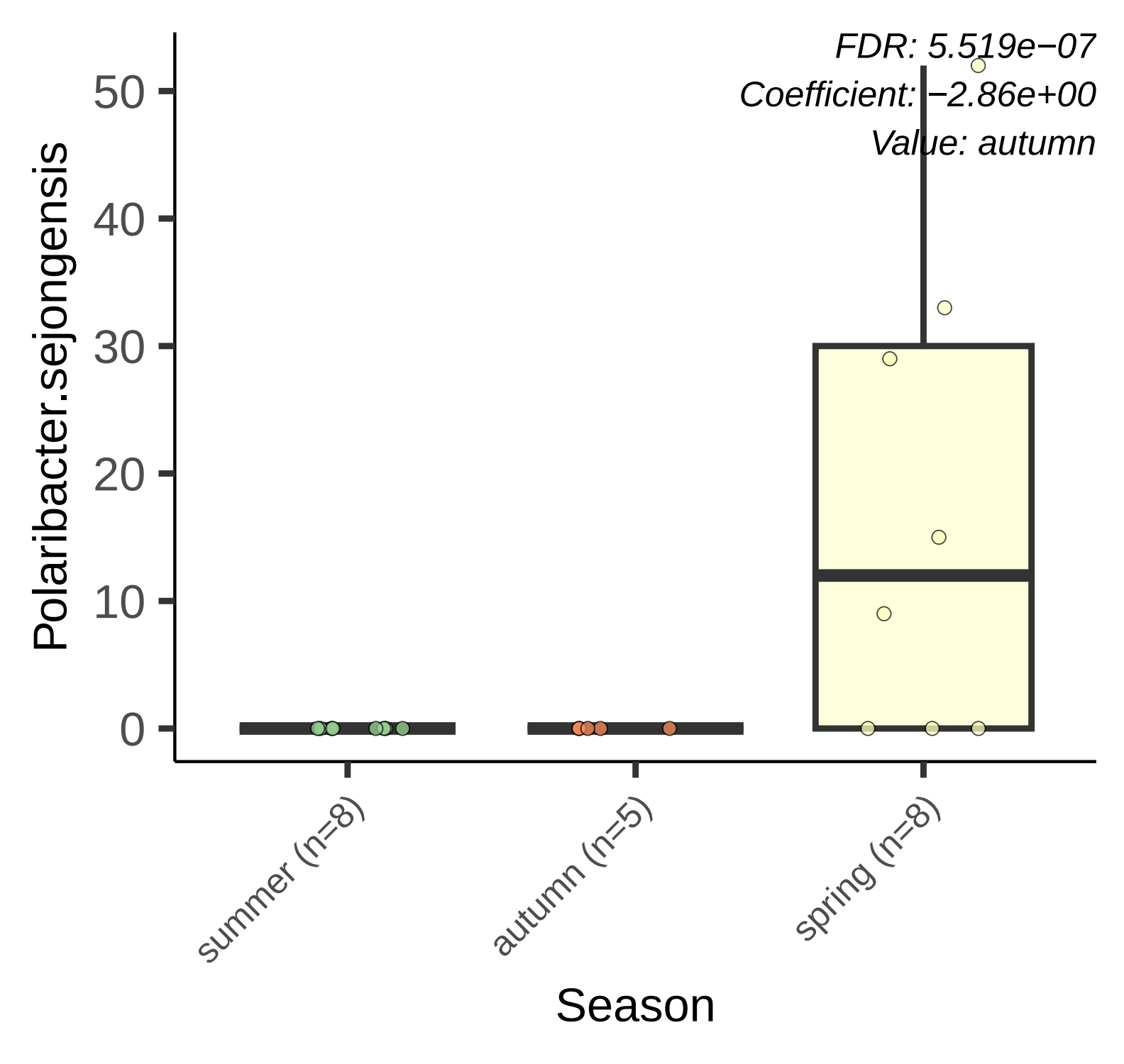

FDR: 2.979e−07
Coefficient: −3.98e+00
Value: autumn
Polaribacter.sp..MED152
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

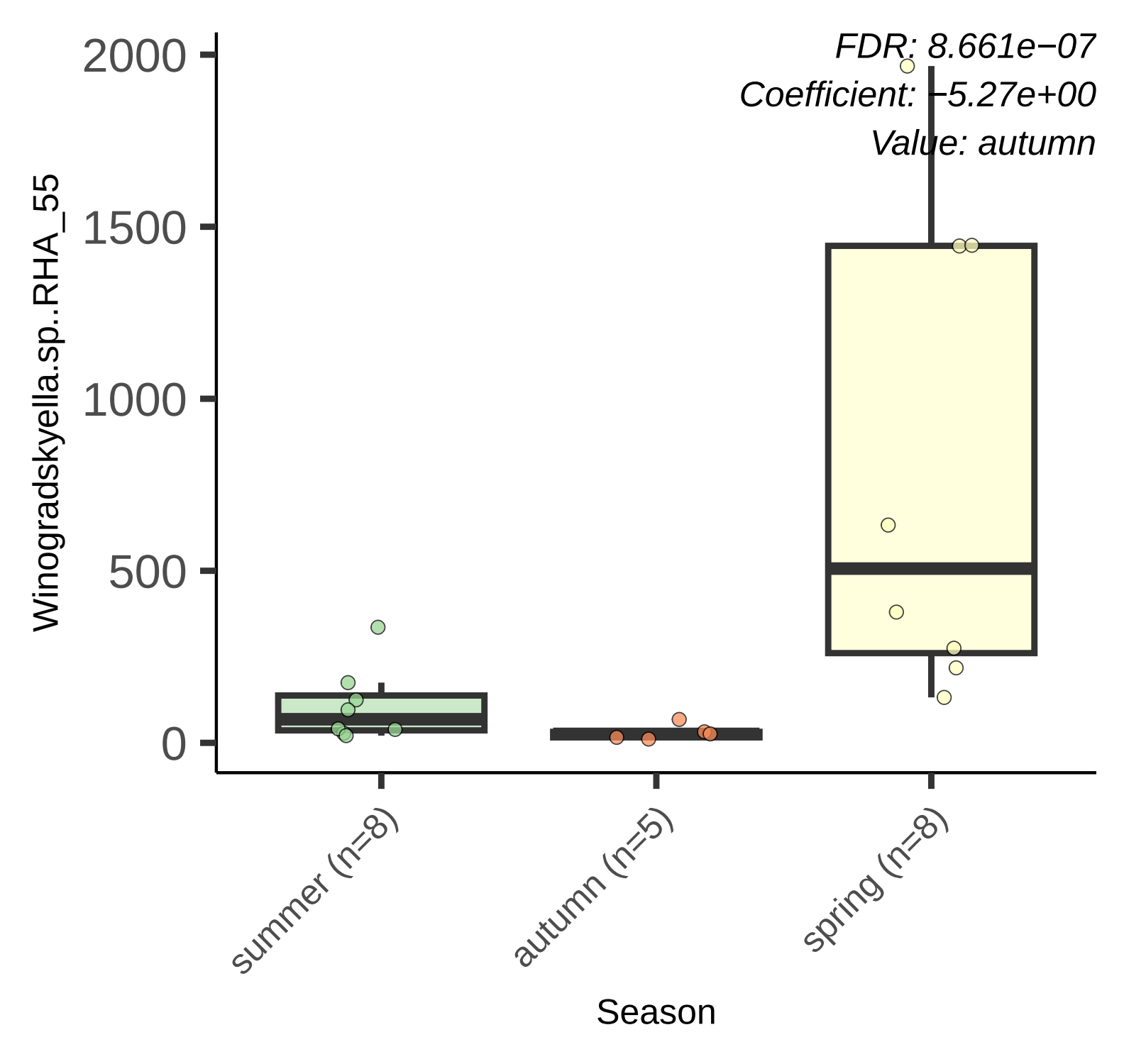

FDR: 3.932e−07
Coefficient: −3.47e+00
Value: autumn
Amphora.coffeiformis
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

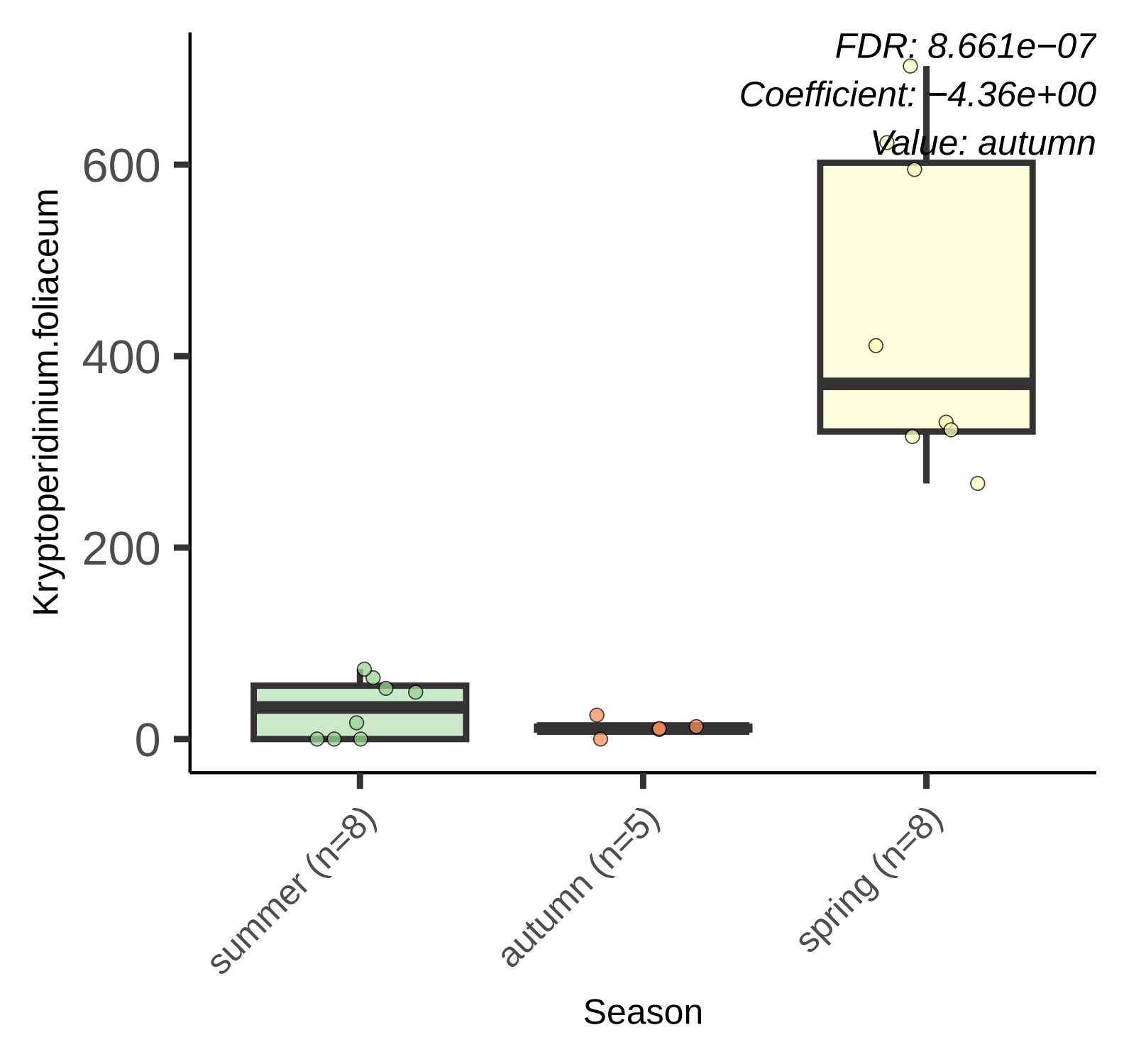

FDR: 3.963e−07
Coefficient: −4.43e+00
Value: autumn
Lacinutrix.sp..Bg11.31
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

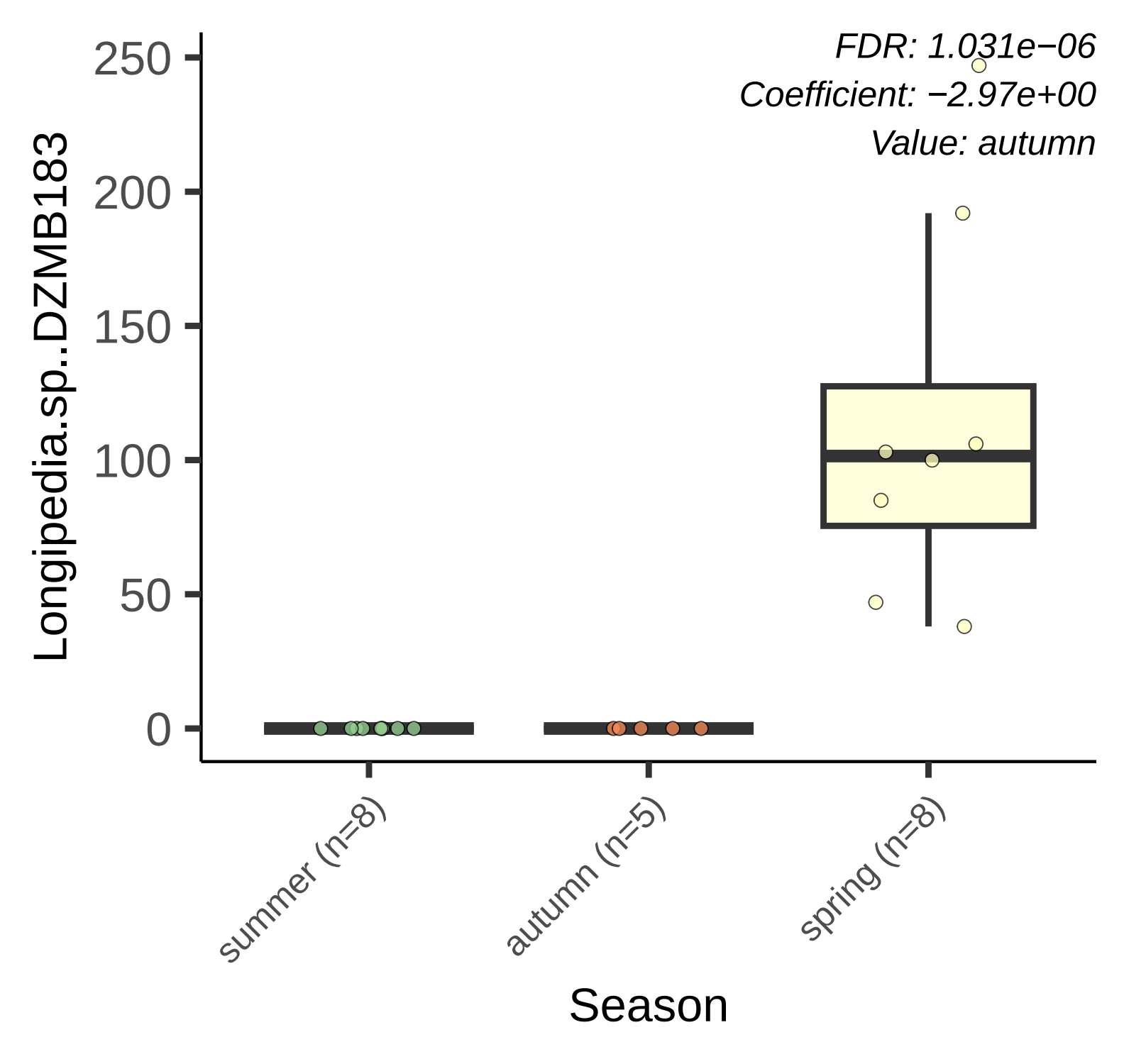

FDR: 4.779e−07
Coefficient: −2.74e+00
Value: autumn
Harpacticus.sp..France_RJH_2007
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

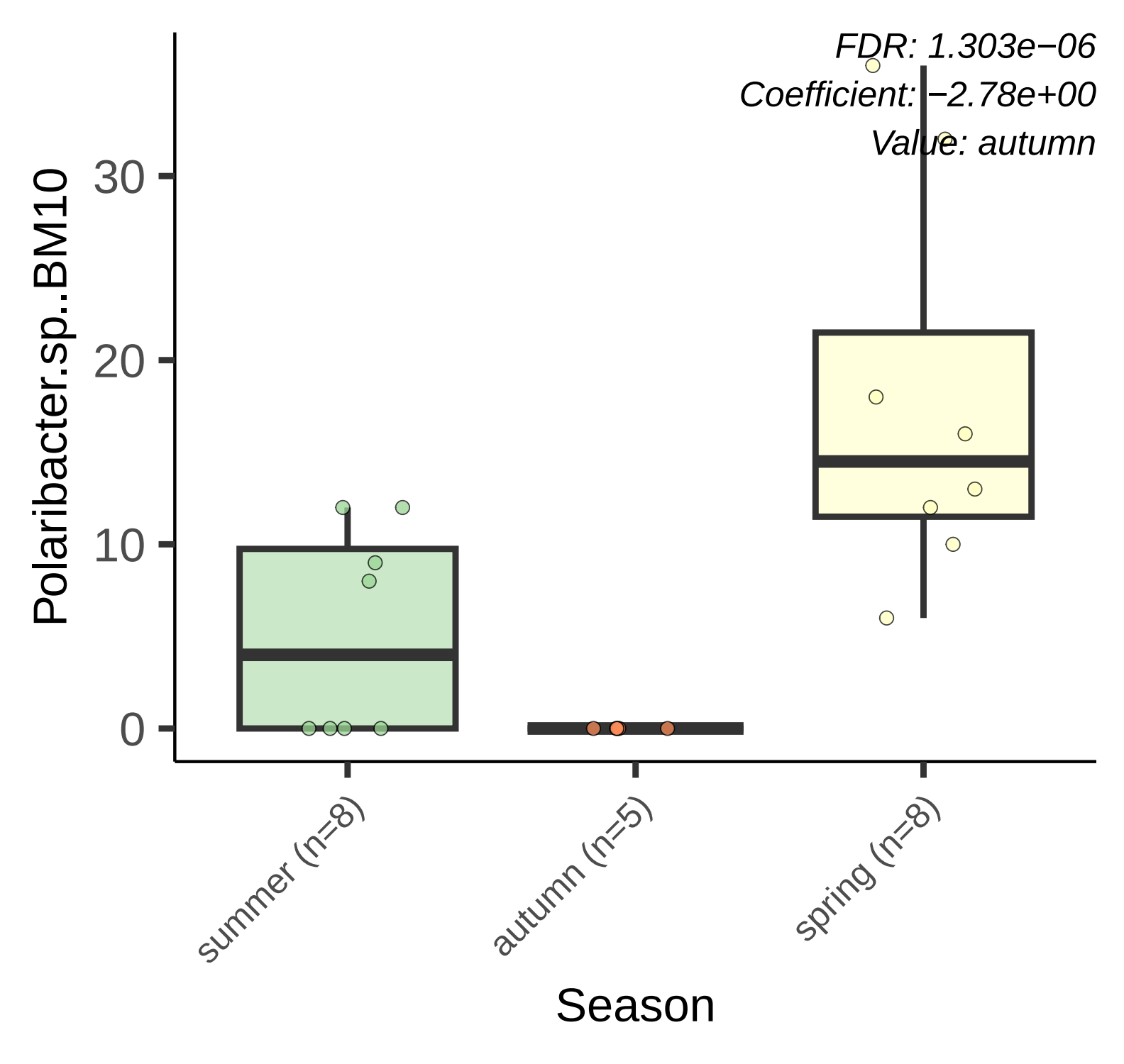

FDR: 5.460e−07
Coefficient: −2.75e+00
Value: autumn
Zaus.unisetosus
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

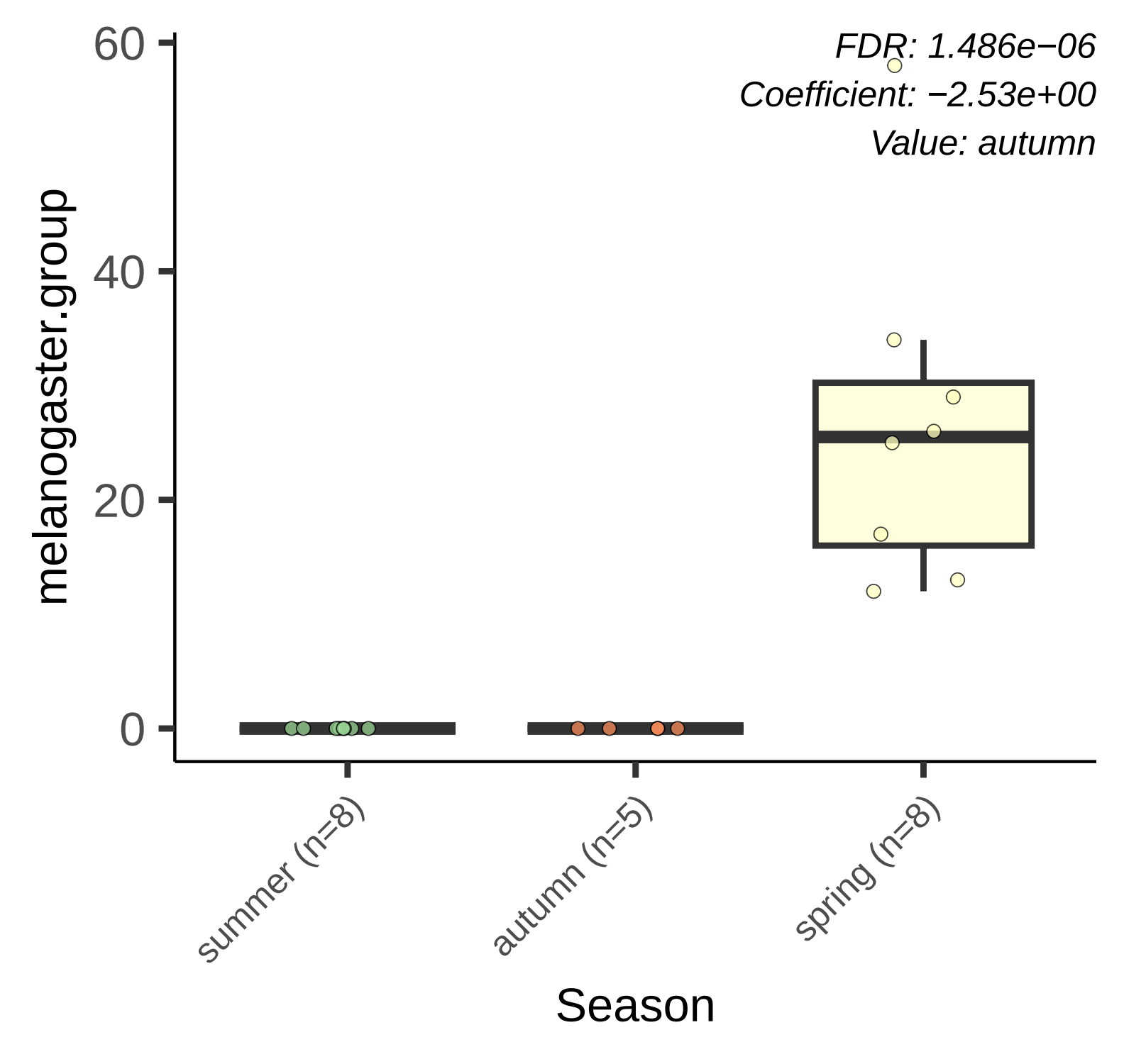

FDR: 5.519e−07
Coefficient: −2.86e+00
Value: autumn
Polaribacter.sejongensis
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

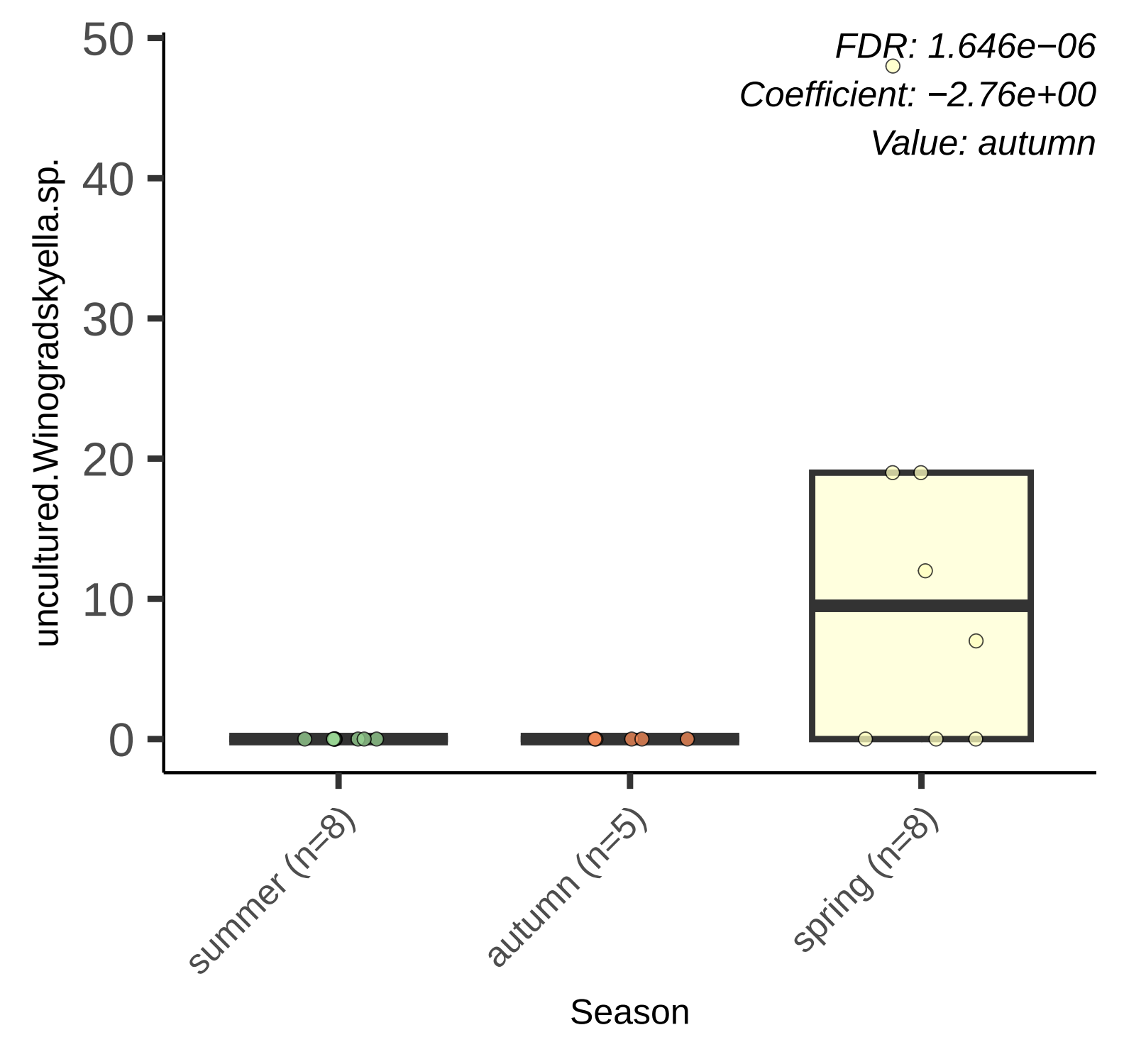

FDR: 8.661e−07
Coefficient: −5.27e+00
Value: autumn
Winogradskyella.sp..RHA_55
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

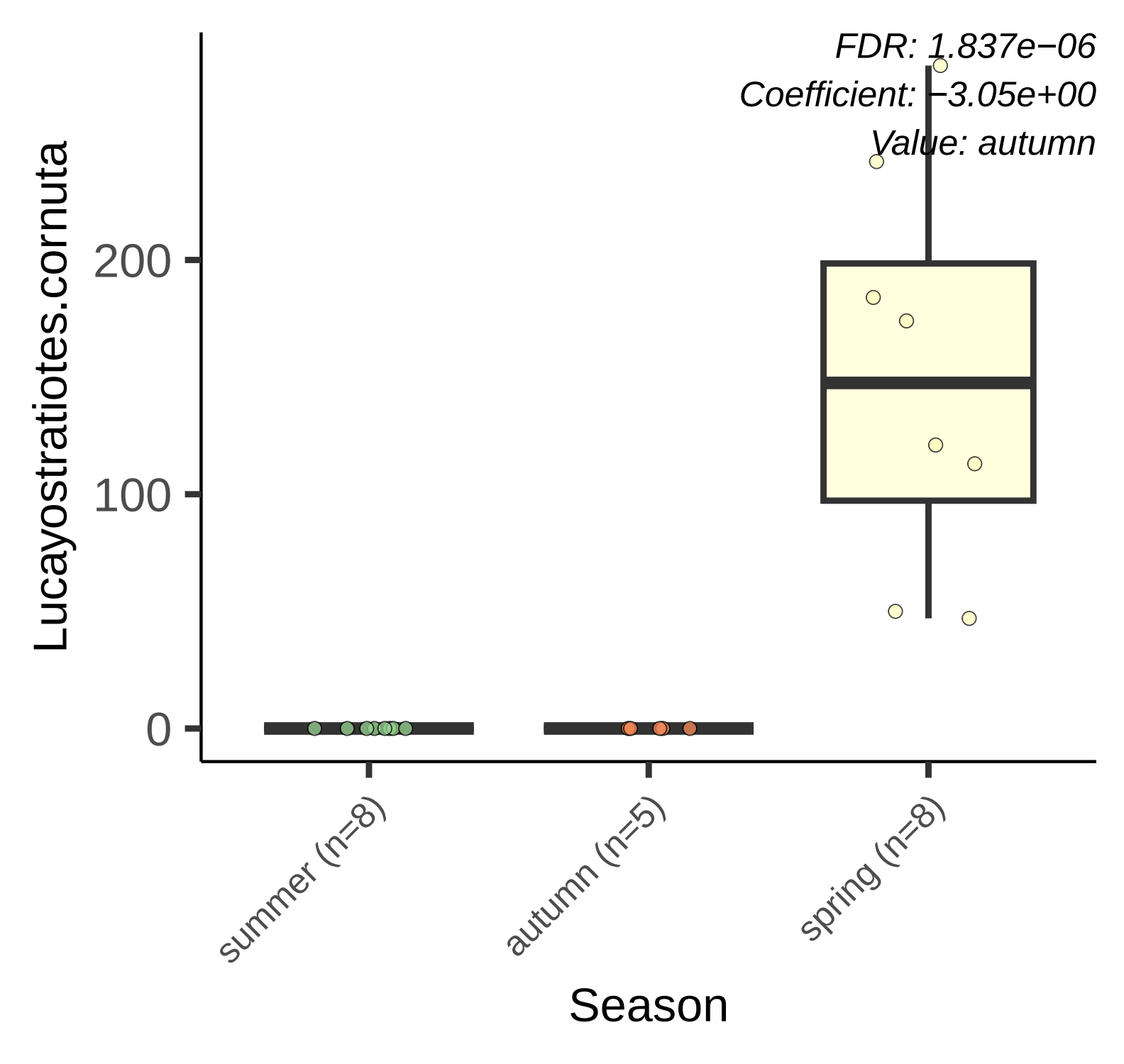

FDR: 8.661e−07
Coefficient: −4.36e+00
Value: autumn
Kryptoperidinium.foliaceum
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

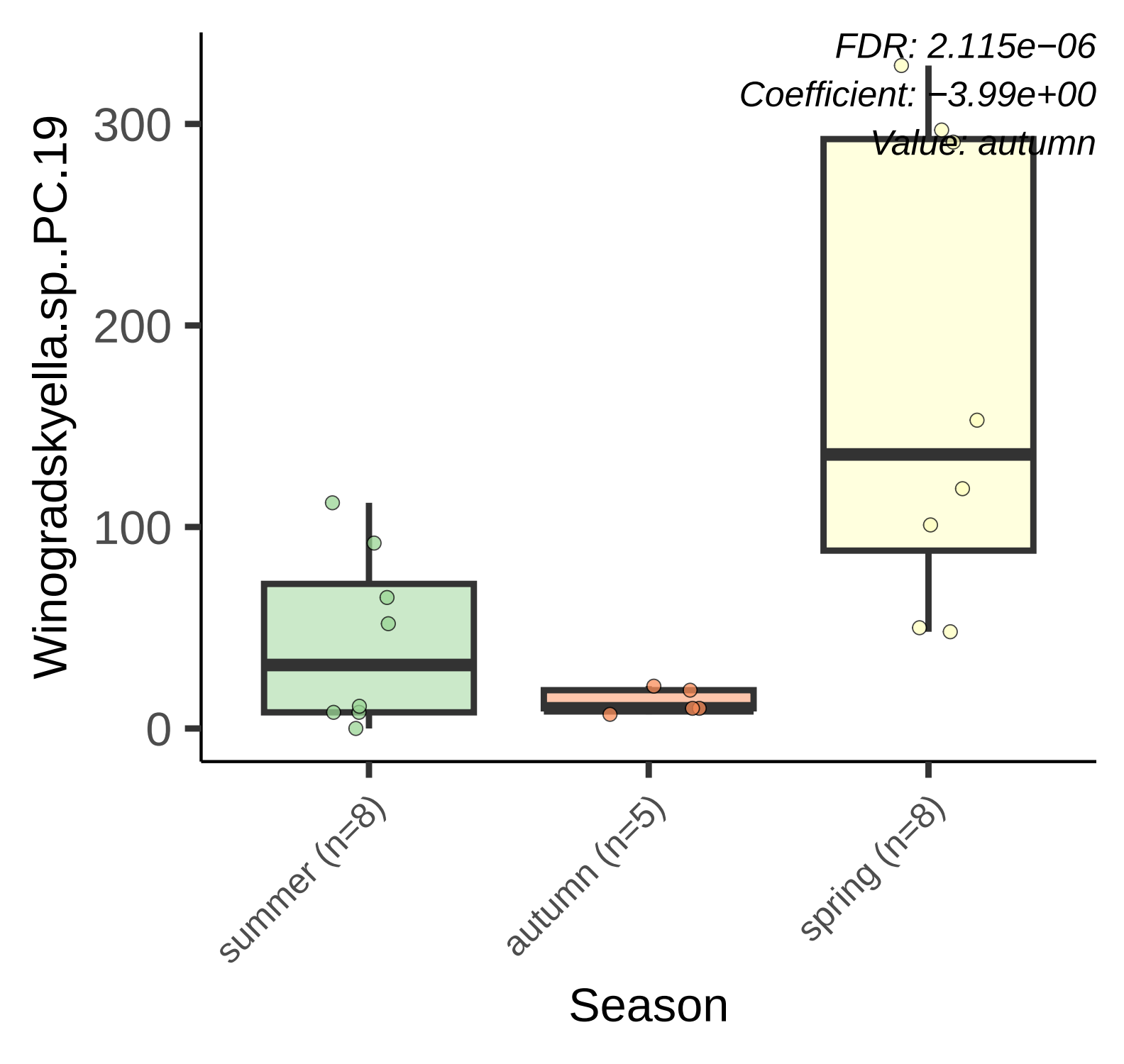

FDR: 1.031e−06
Coefficient: −2.97e+00
Value: autumn
Longipedia.sp..DZMB183
250
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

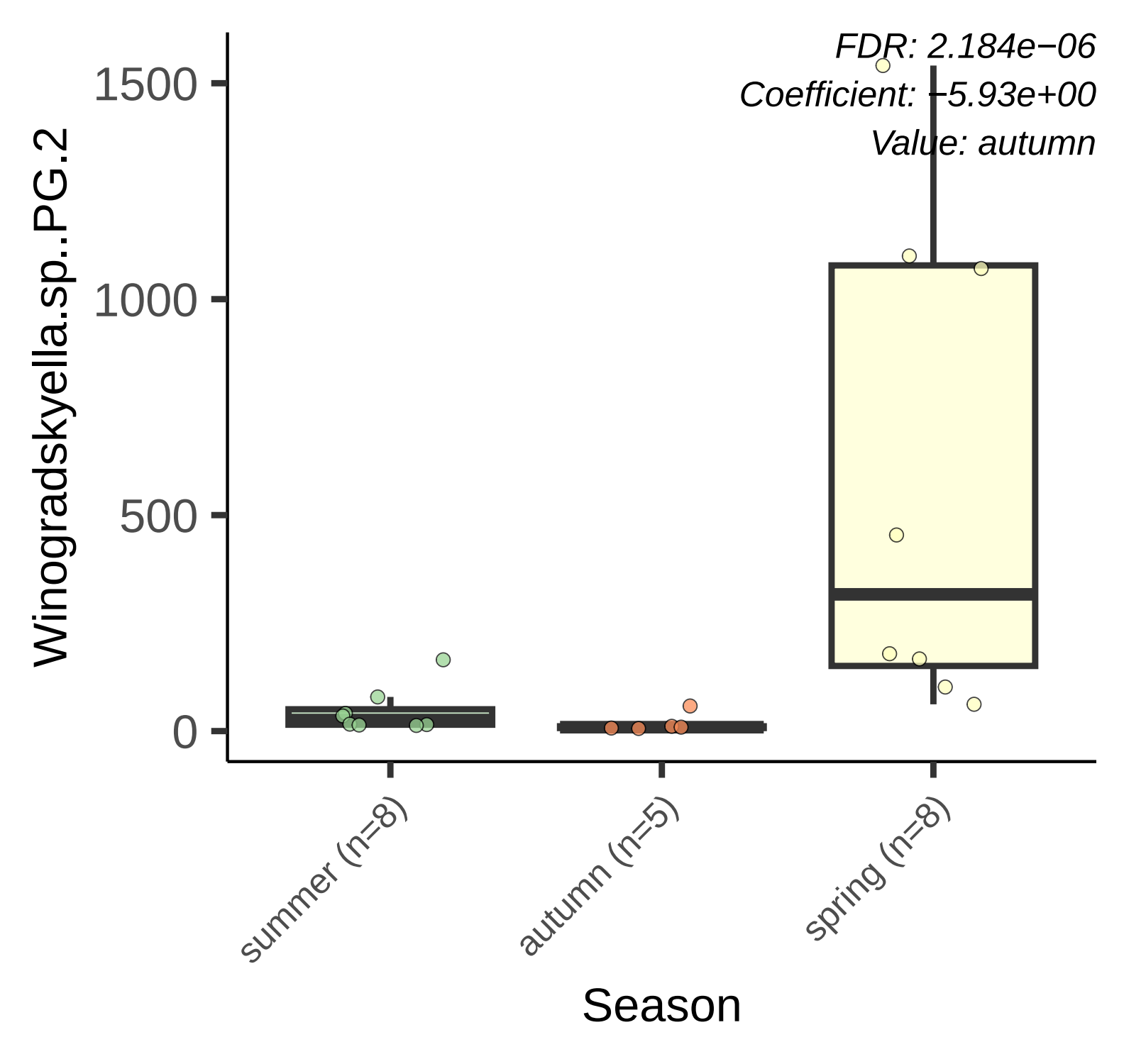

FDR: 1.303e−06
Coefficient: −2.78e+00
Value: autumn
Polaribacter.sp..BM10
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

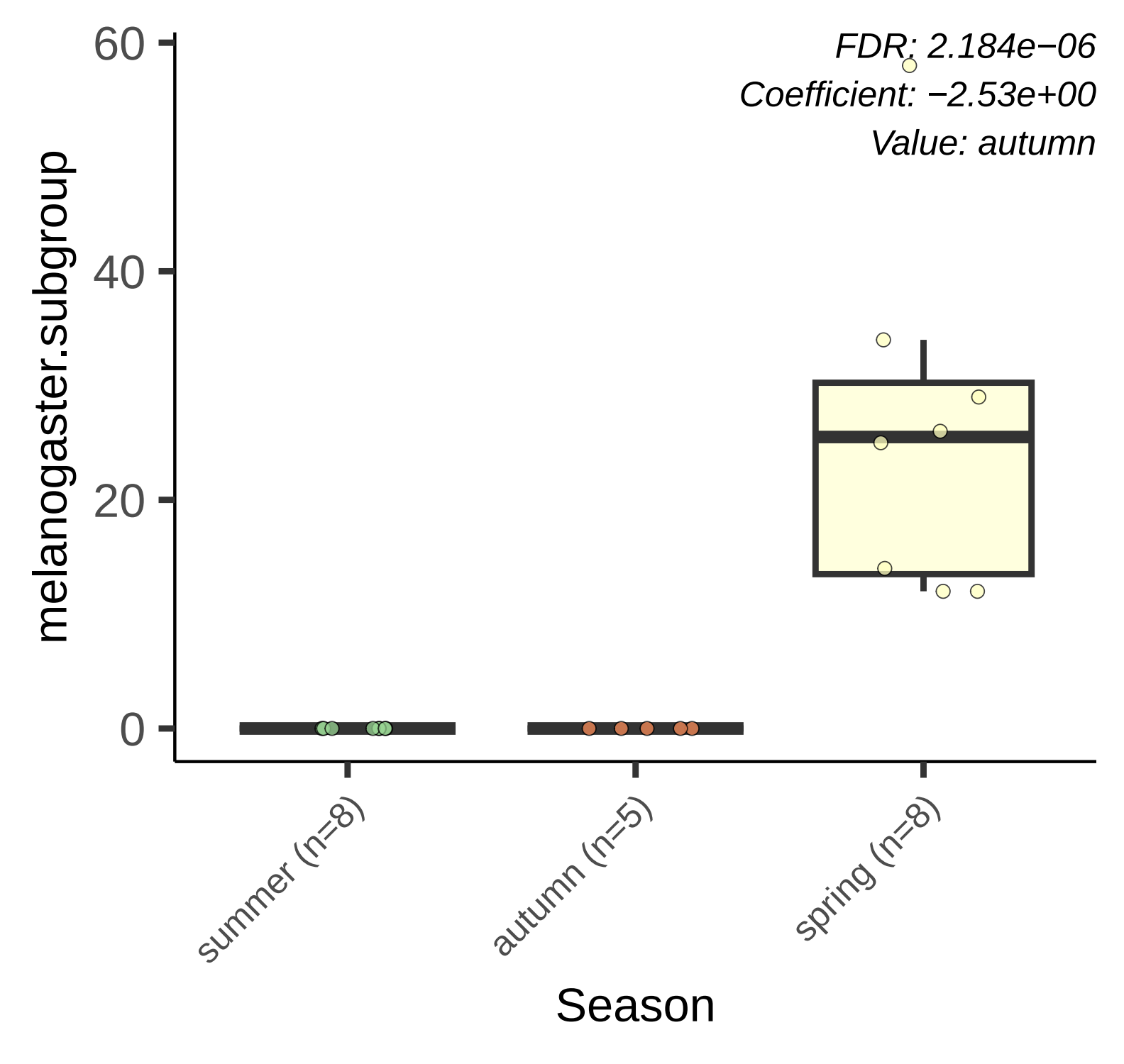

FDR: 1.486e−06
Coefficient: −2.53e+00
Value: autumn
60
40
20
0
melanogaster.group
summer (n=8)
autumn (n=5)
spring (n=8)
Season

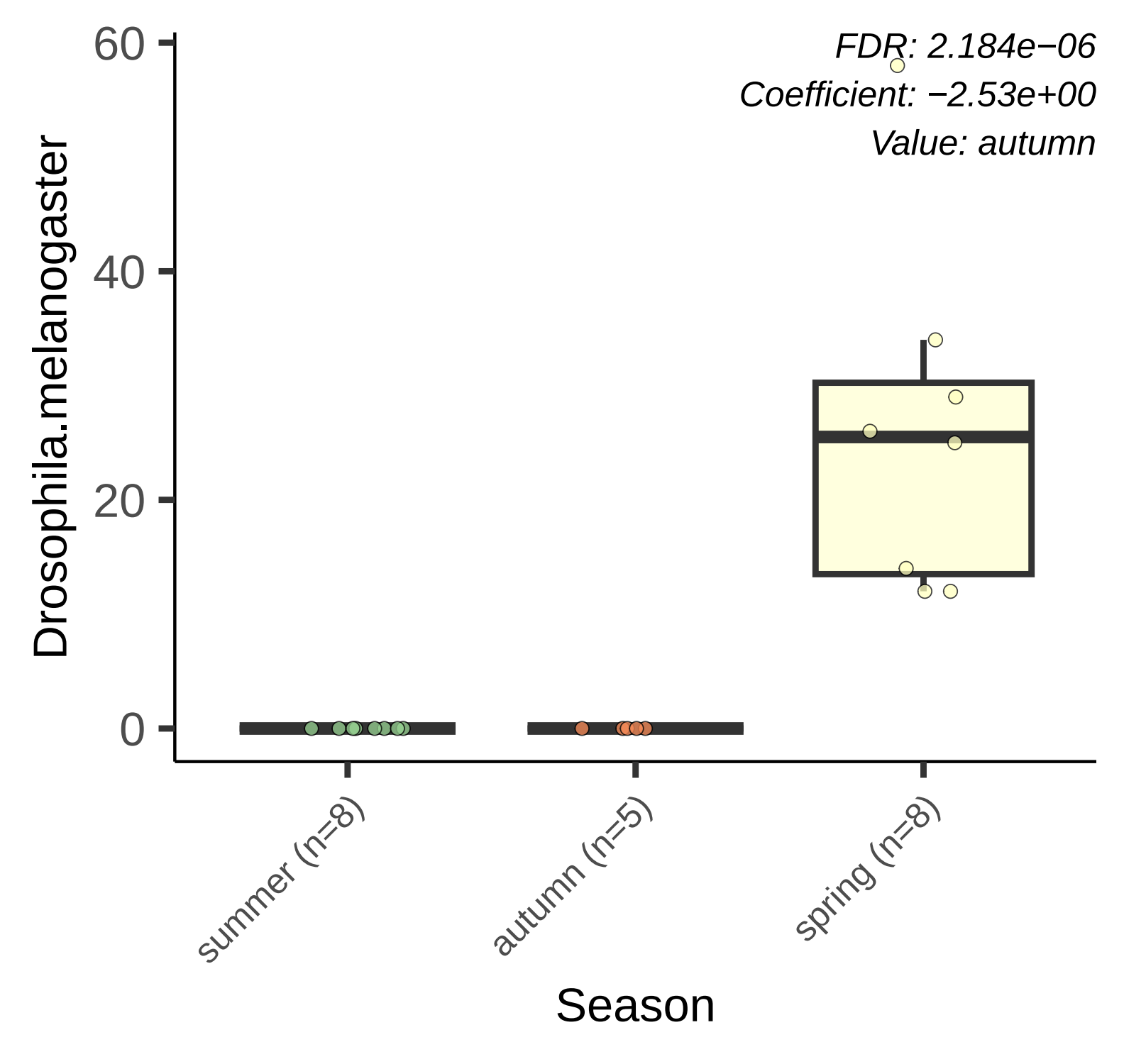

FDR: 1.646e−06
Coefficient: −2.76e+00
Value: autumn
uncultured.Winogradskyella.sp.
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

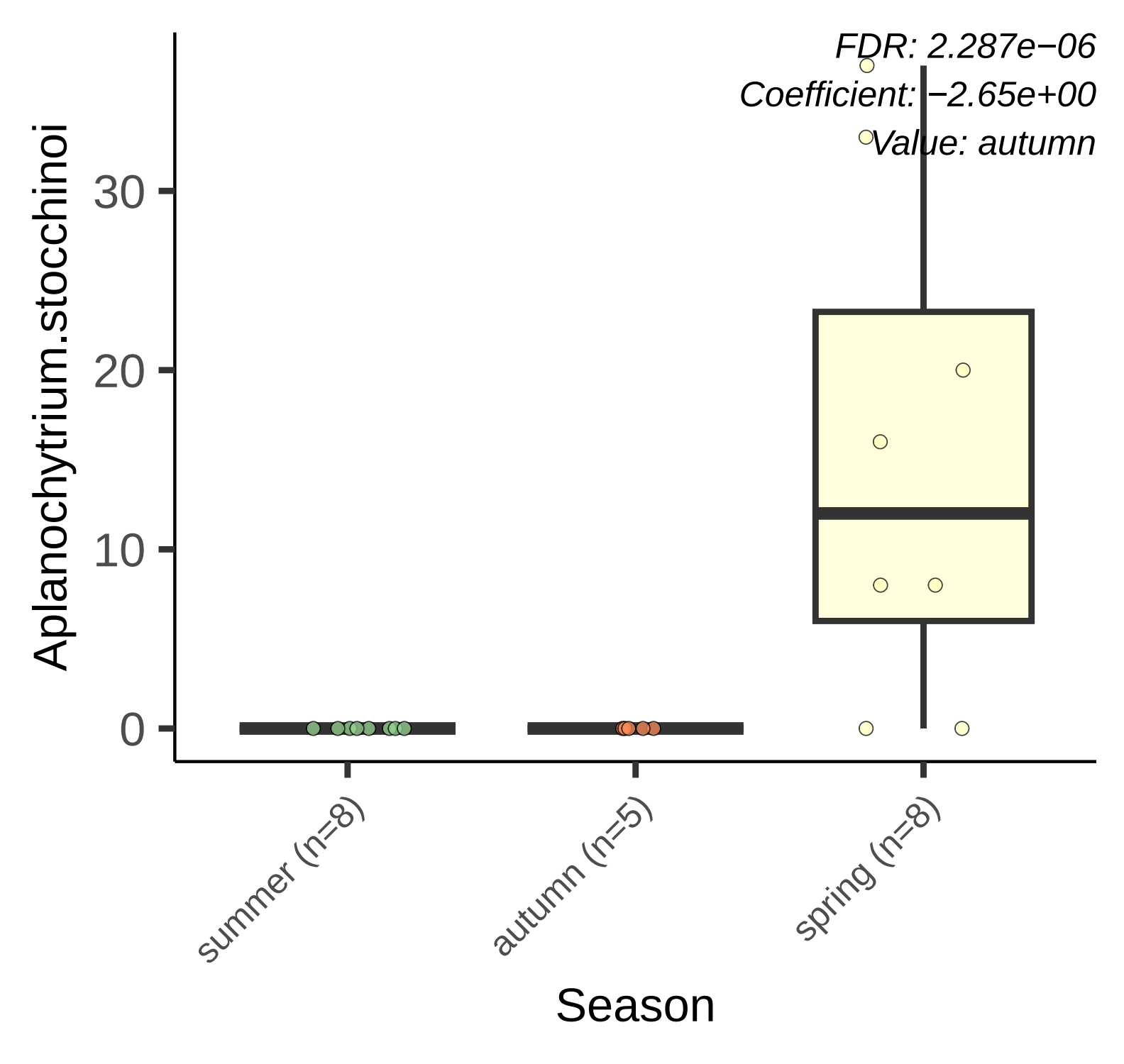

FDR: 1.837e−06
Coefficient: −3.05e+00
Value: autumn
Lucayostratiotes.cornuta
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

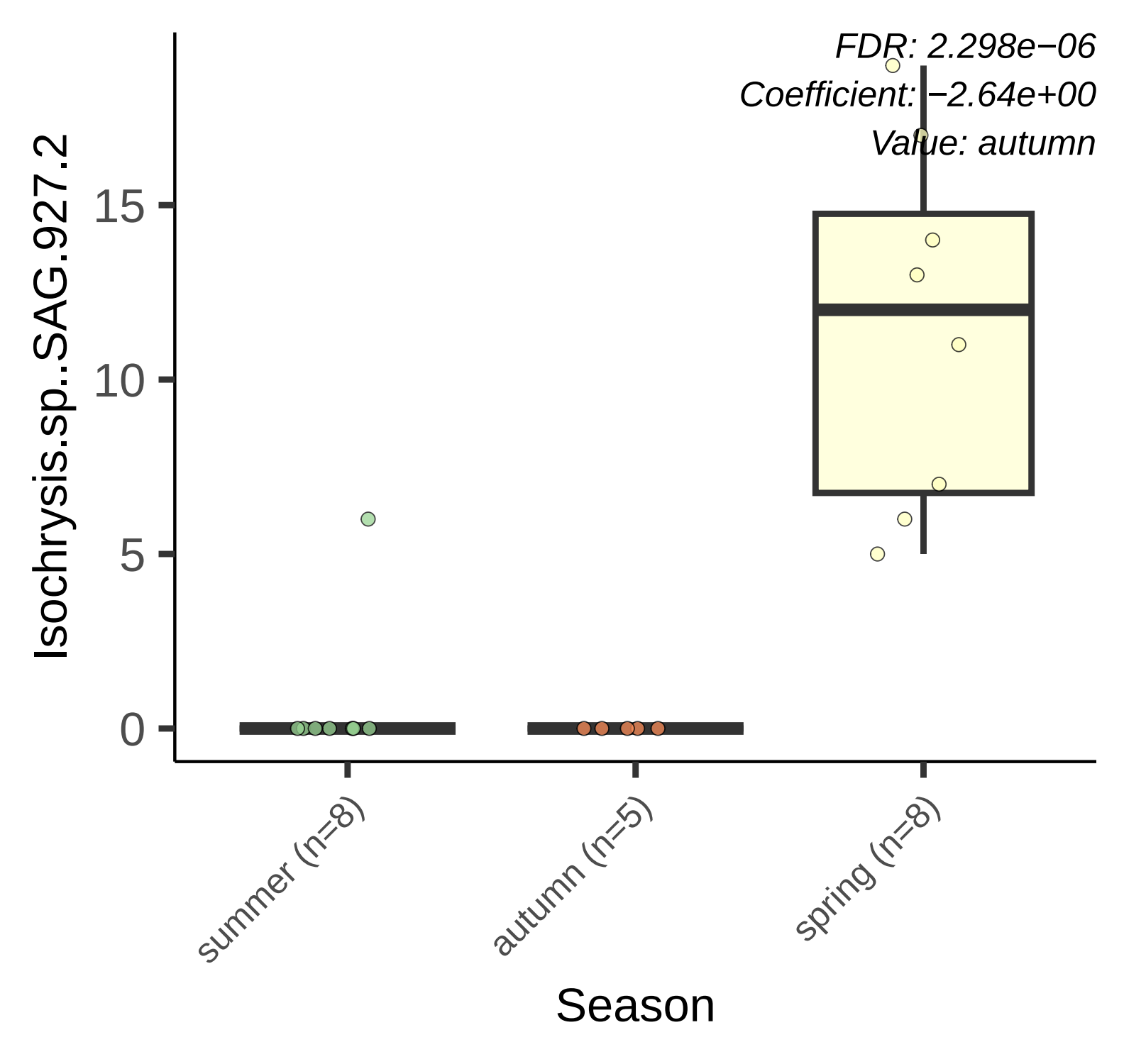

FDR: 2.115e−06
Coefficient: −3.99e+00
Value: autumn
Winogradskyella.sp..PC.19
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

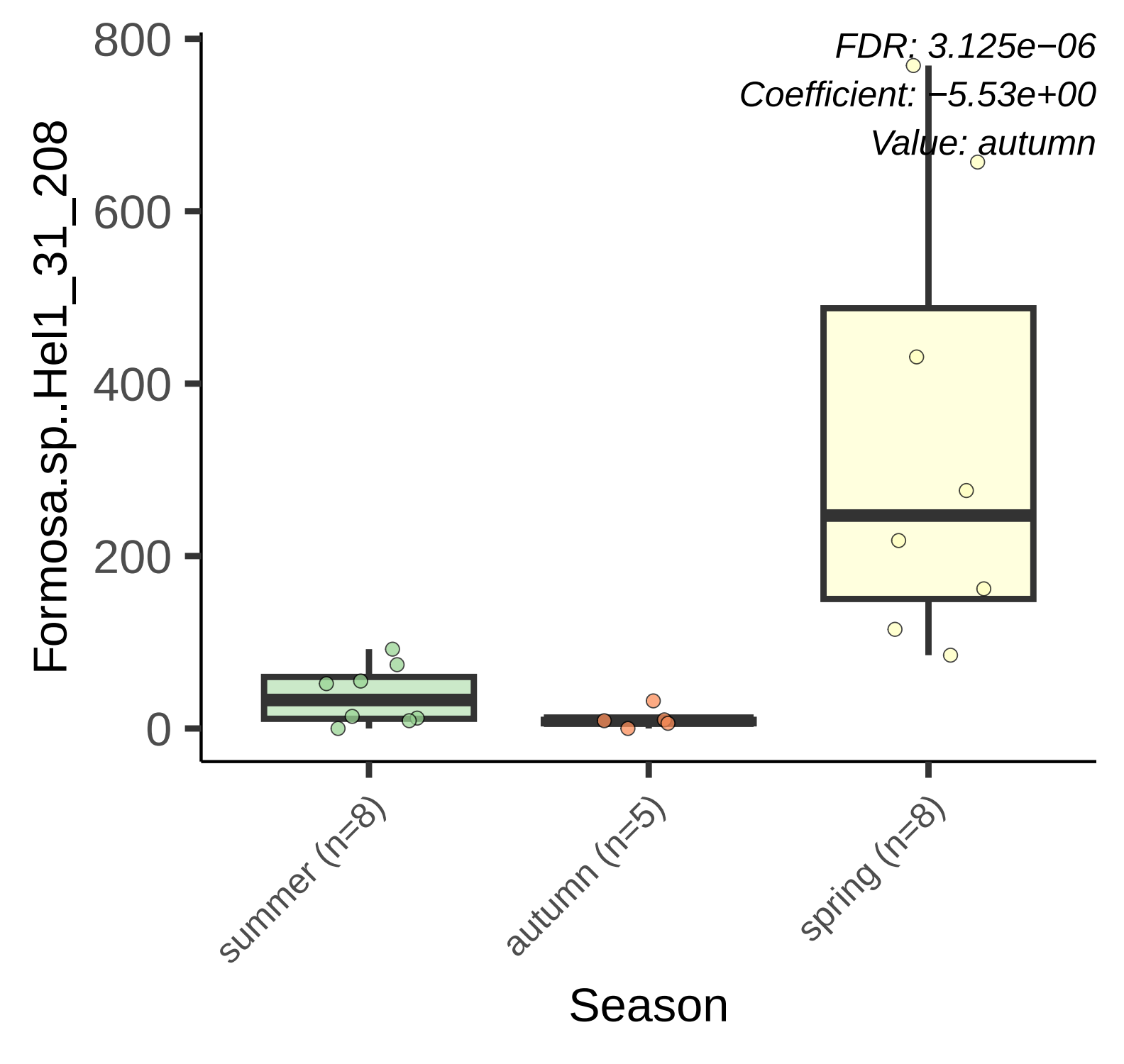

FDR: 2.184e−06
Coefficient: −5.93e+00
Value: autumn
Winogradskyella.sp..PG.2
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

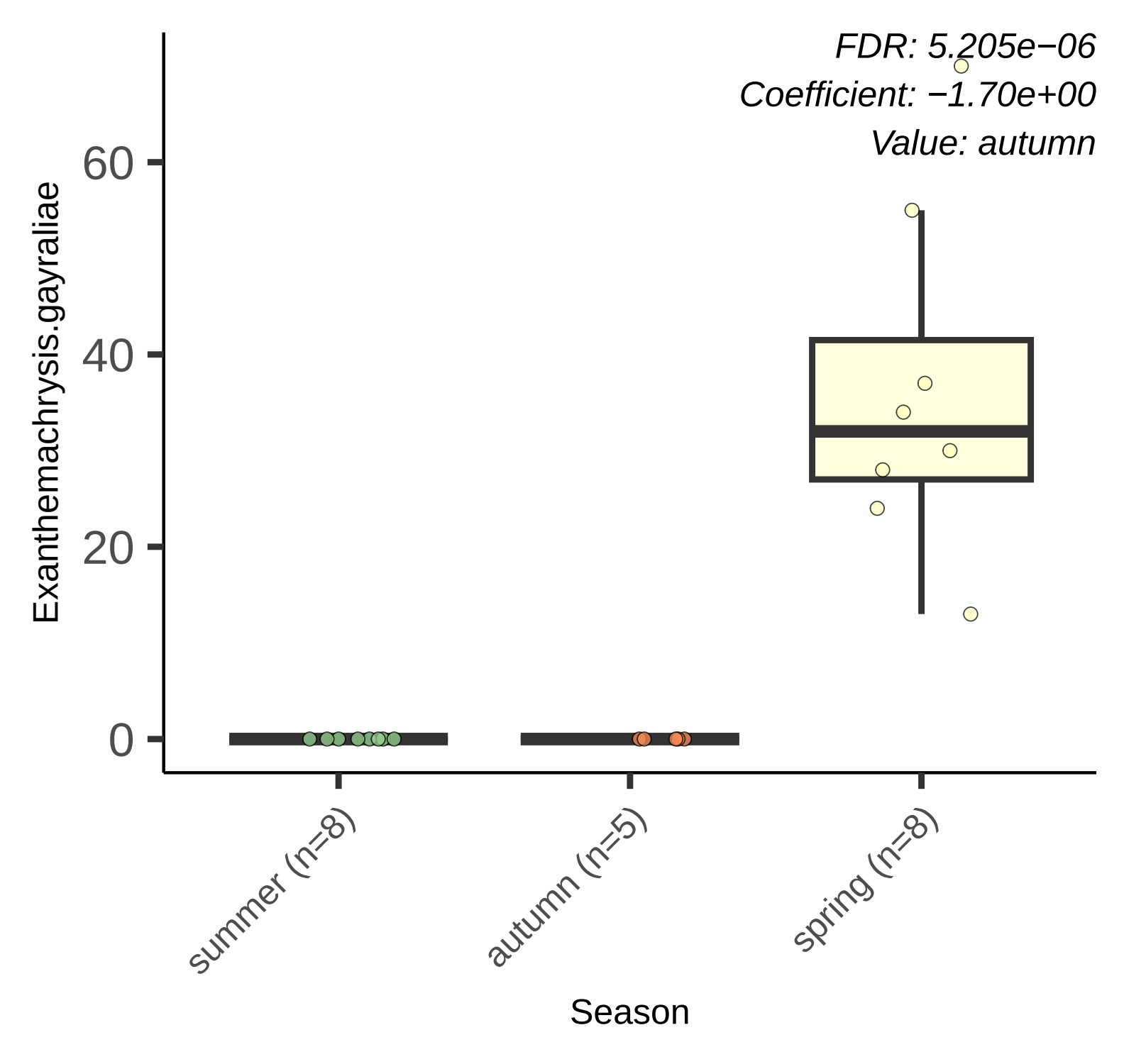

FDR: 2.184e−06
Coefficient: −2.53e+00
Value: autumn
melanogaster.subgroup
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

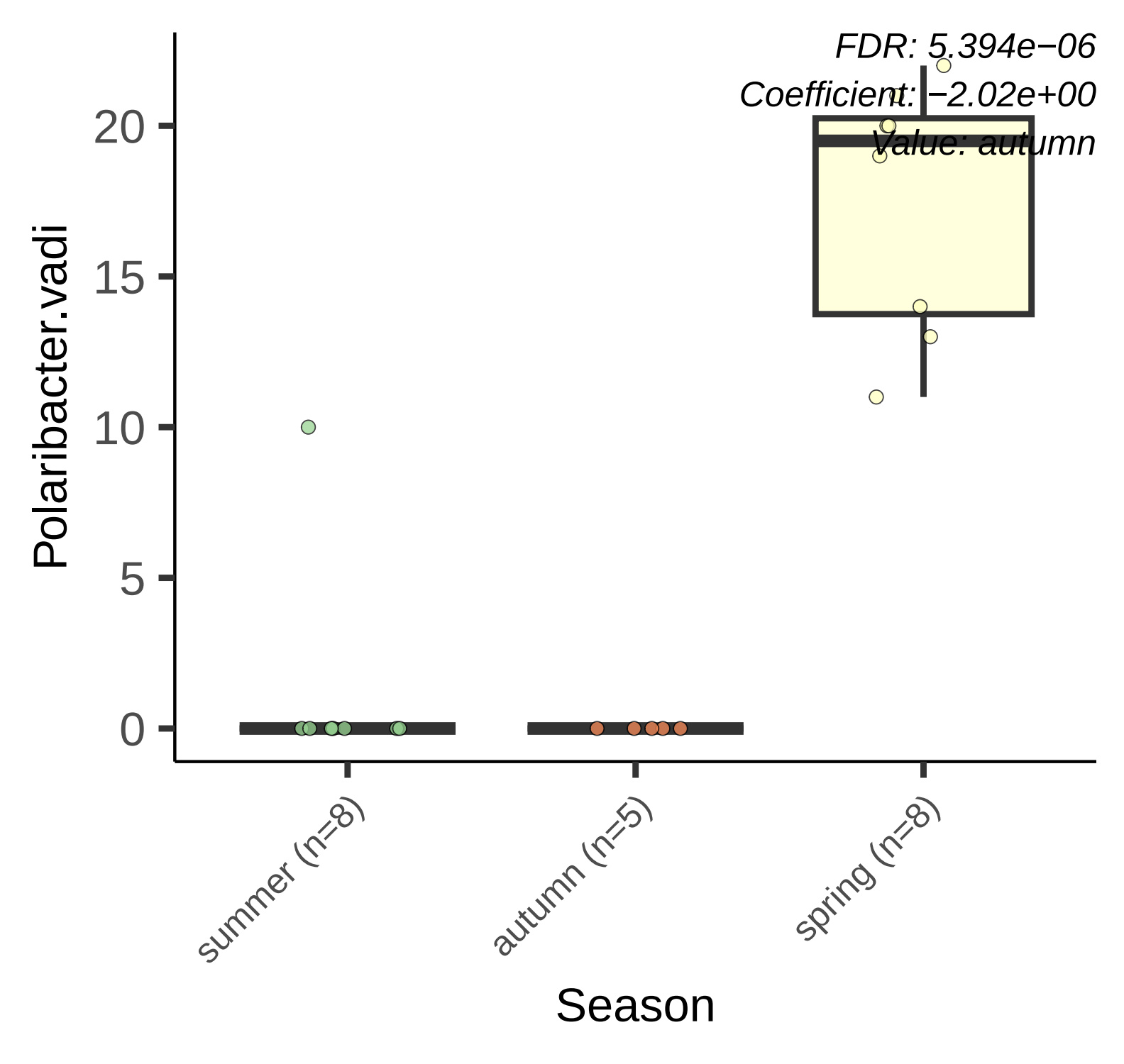

FDR: 2.184e−06
Coefficient: −2.53e+00
Value: autumn
Drosophila.melanogaster
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

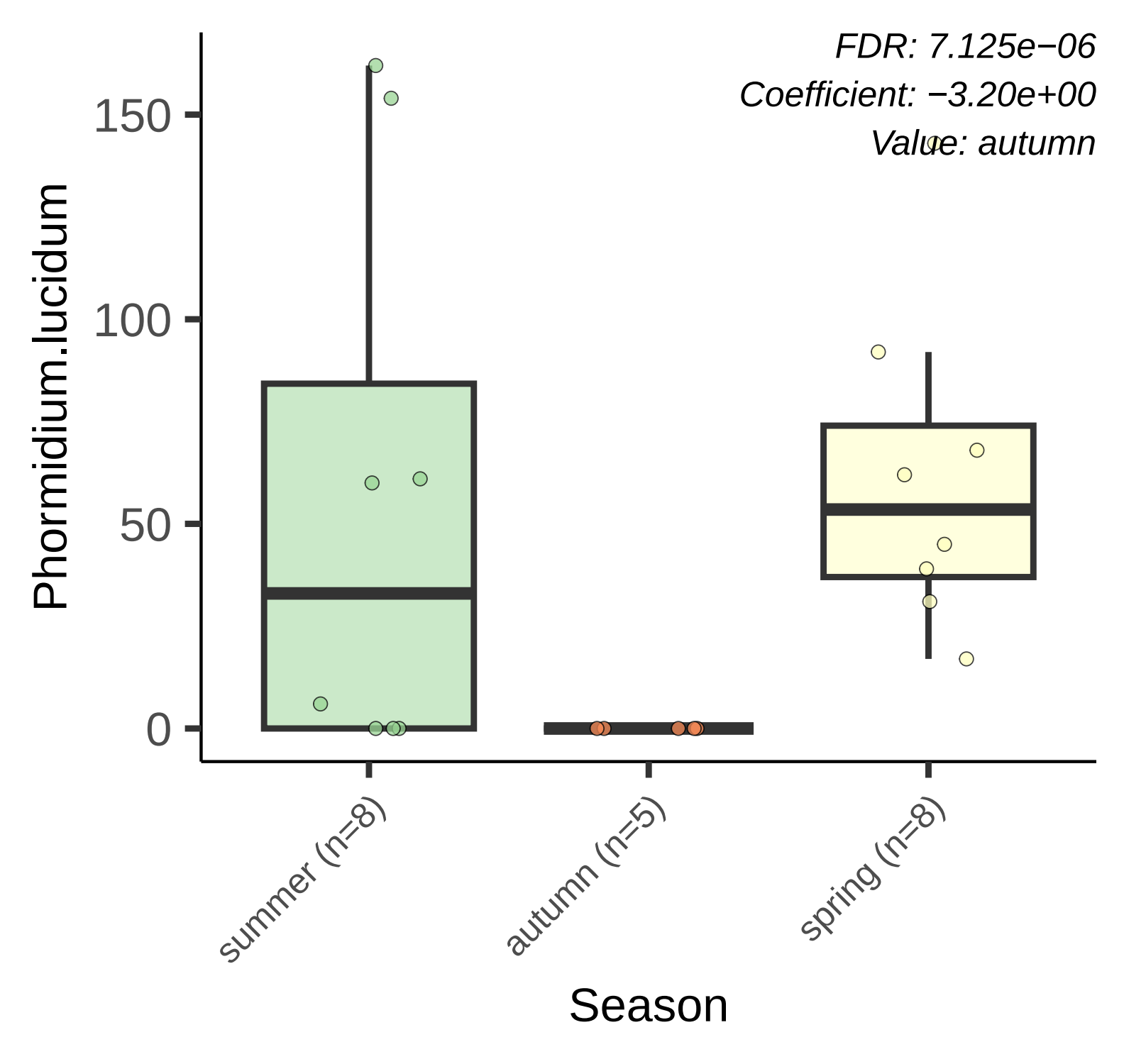

FDR: 2.287e−06
Coefficient: −2.65e+00
Value: autumn
Aplanochytrium.stocchinoi
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

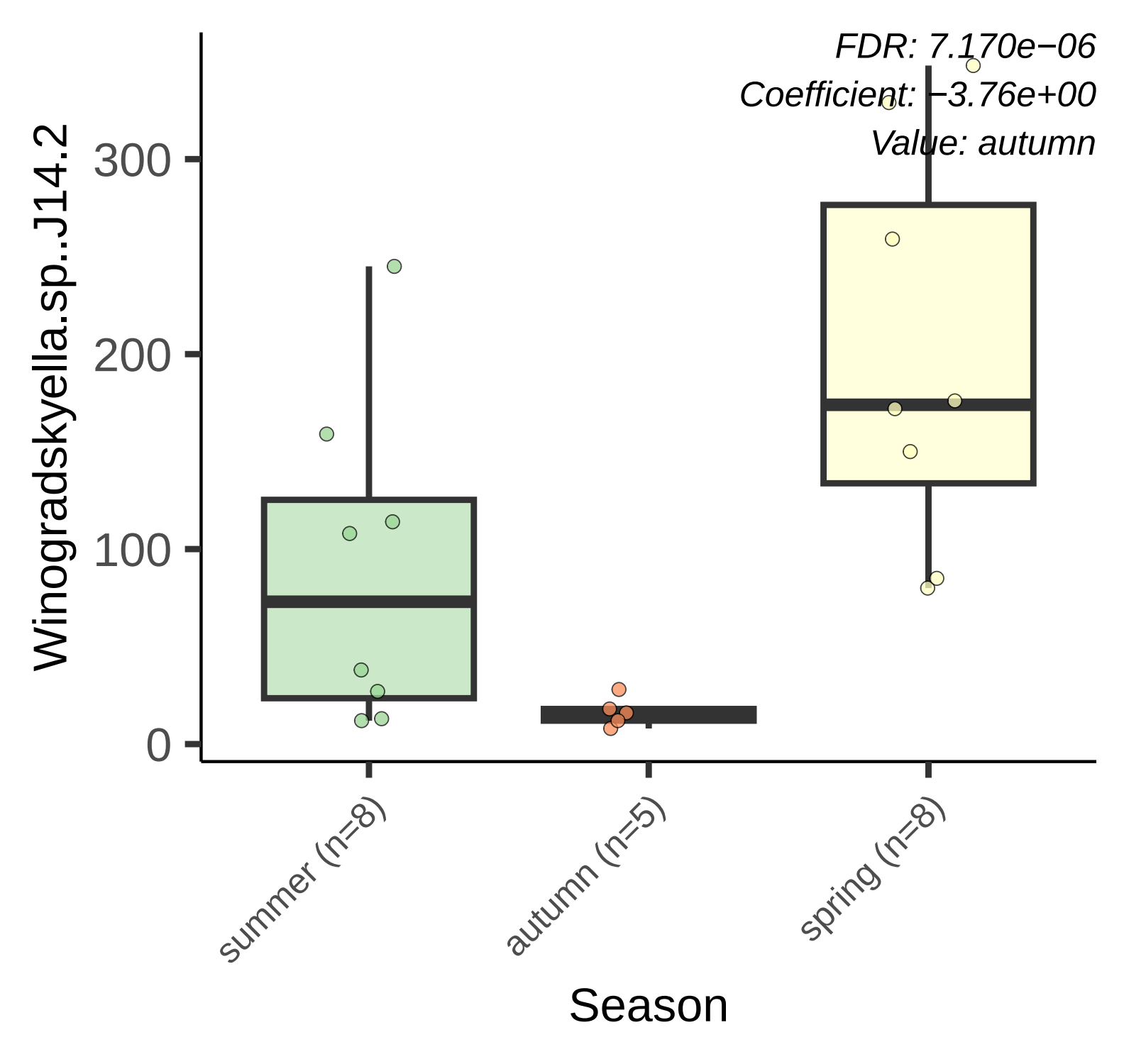

FDR: 2.298e−06
Coefficient: −2.64e+00
Value: autumn
Isochrysis.sp..SAG.927.2
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

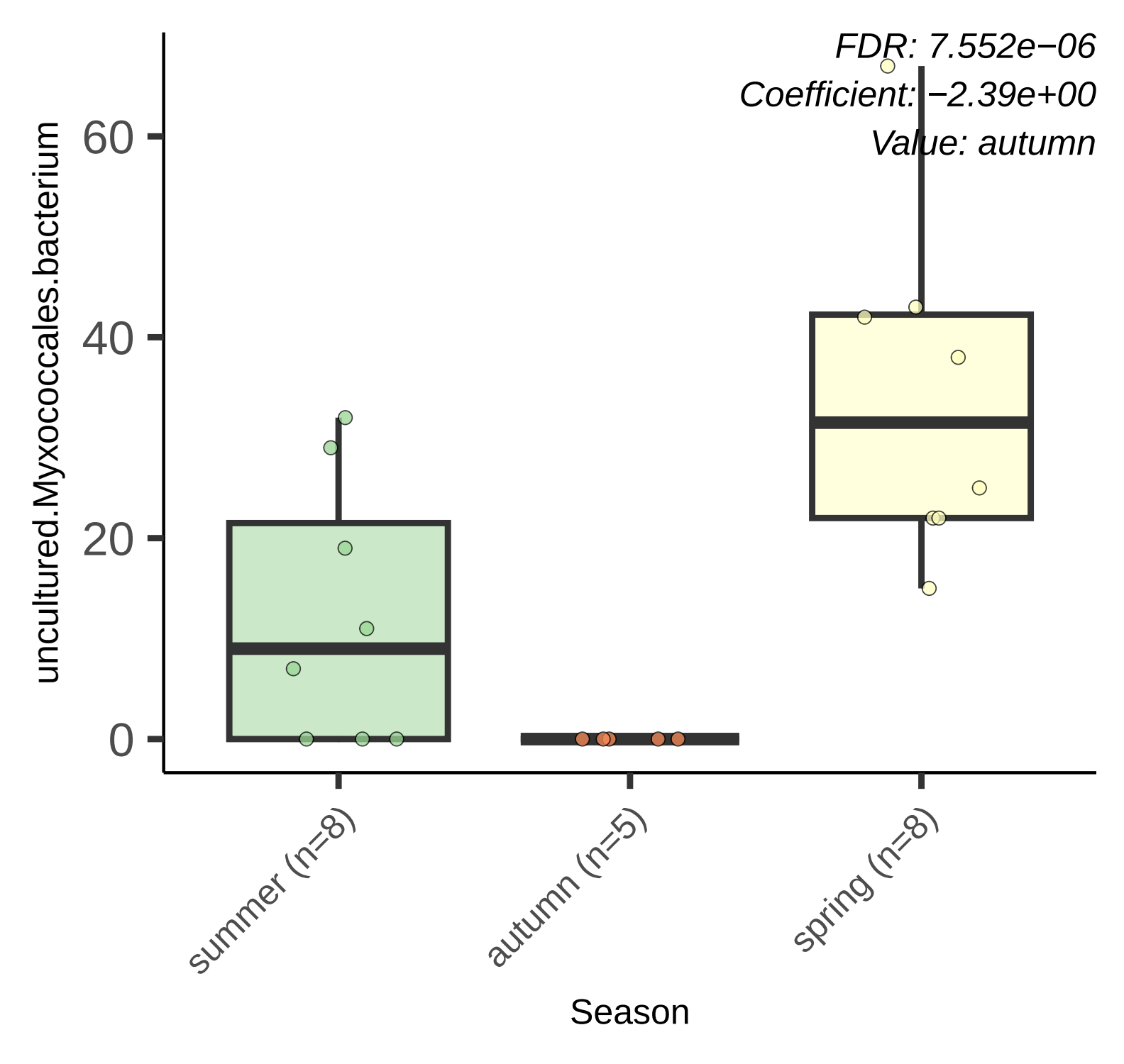

FDR: 3.125e−06
Coefficient: −5.53e+00
Value: autumn
Formosa.sp..Hel1_31_208
800
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

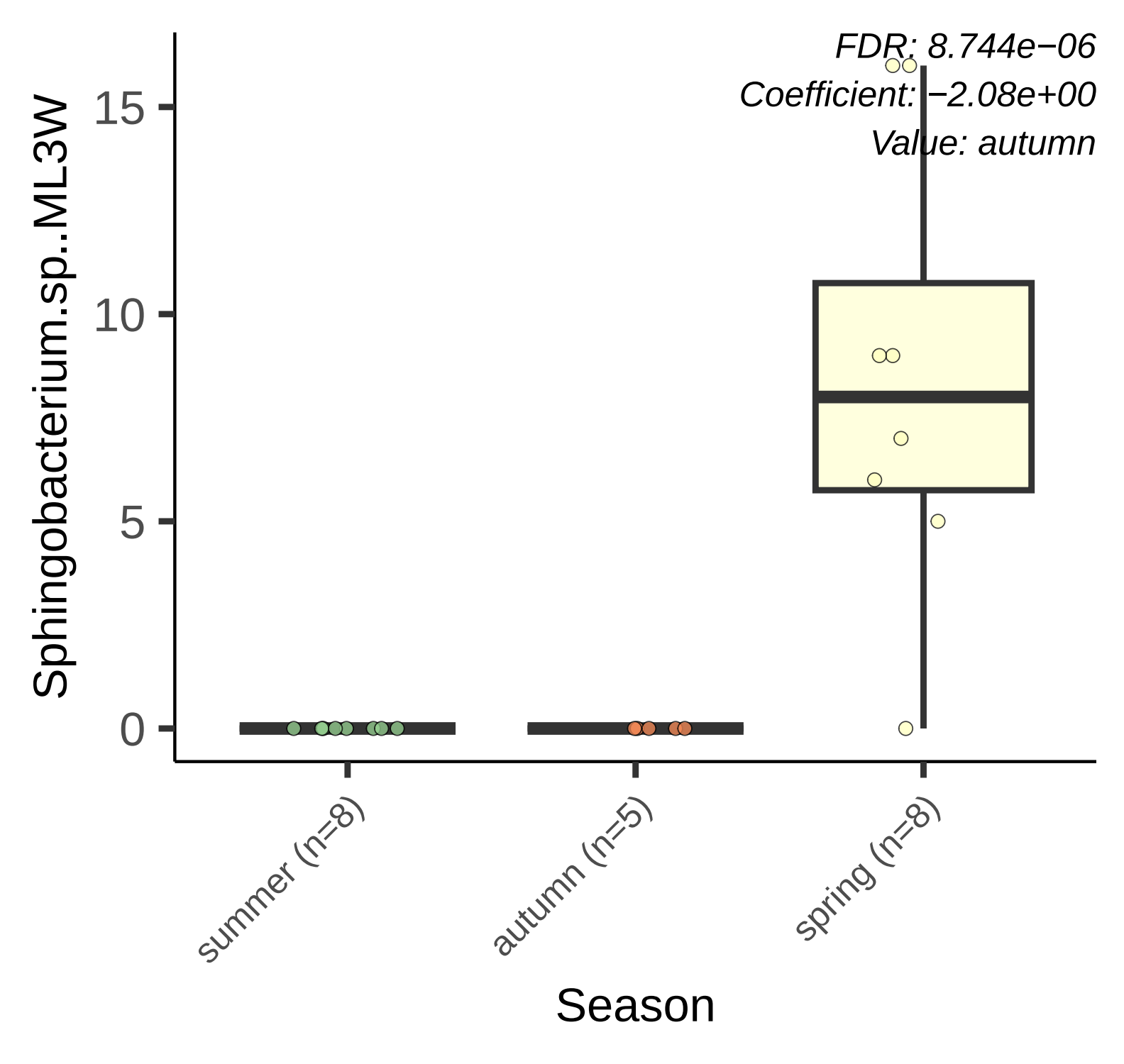

FDR: 5.205e−06
Coefficient: −1.70e+00
Value: autumn
Exanthemachrysis.gayraliae
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

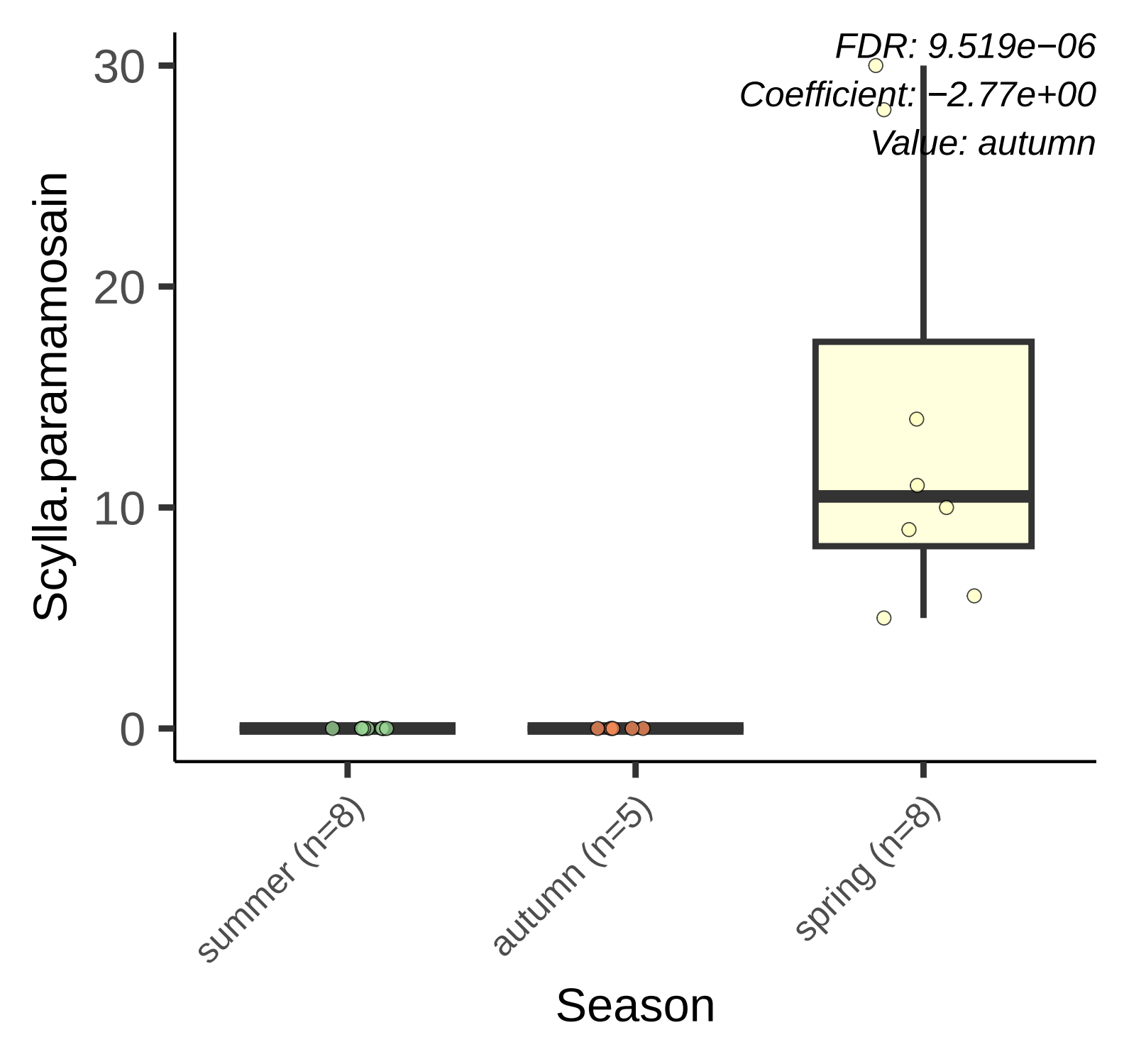

FDR: 5.394e−06
Coefficient: −2.02e+00
Value: autumn
Polaribacter.vadi
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

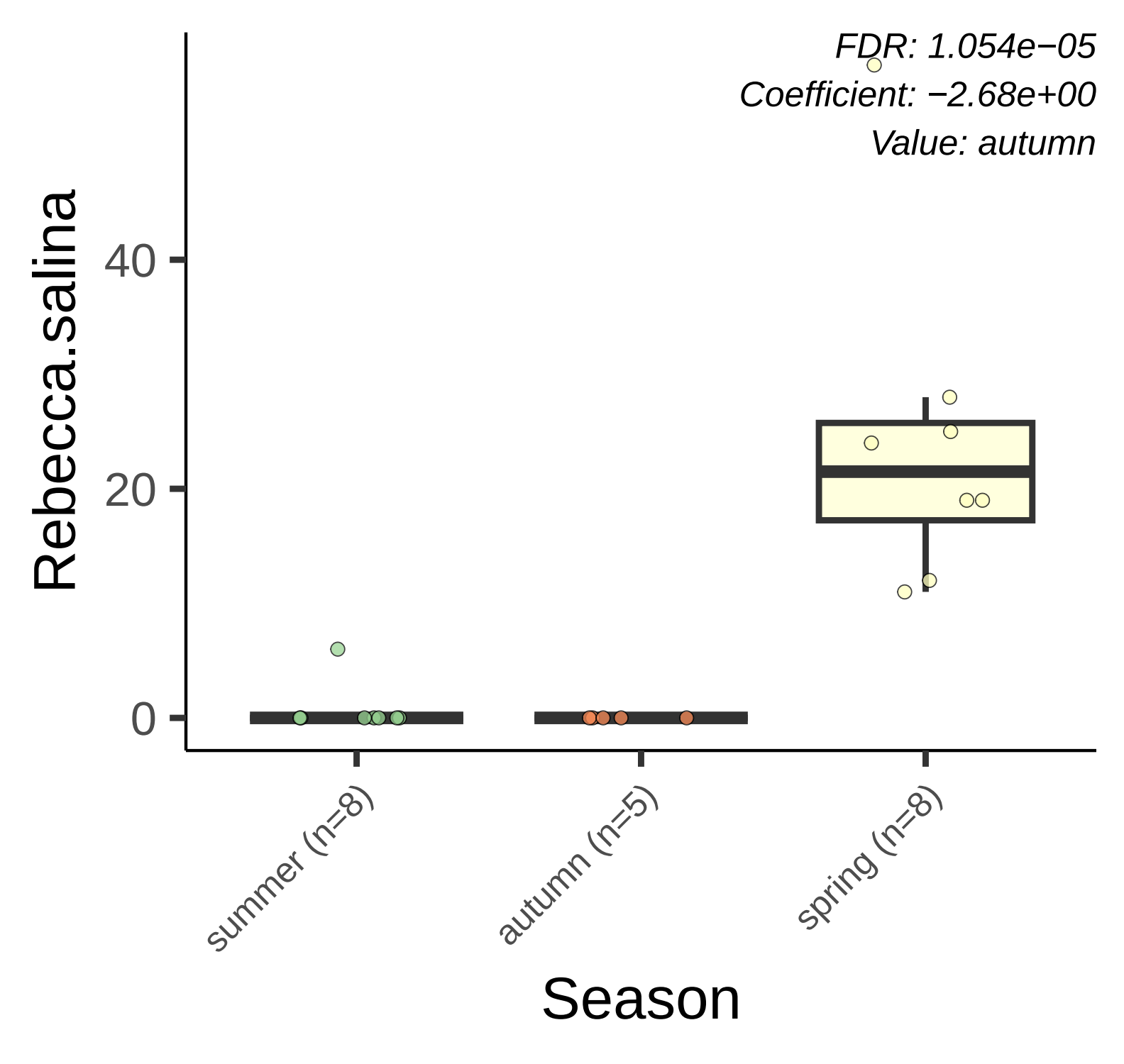

FDR: 7.125e−06
Coefficient: −3.20e+00
Value: autumn
Phormidium.lucidum
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

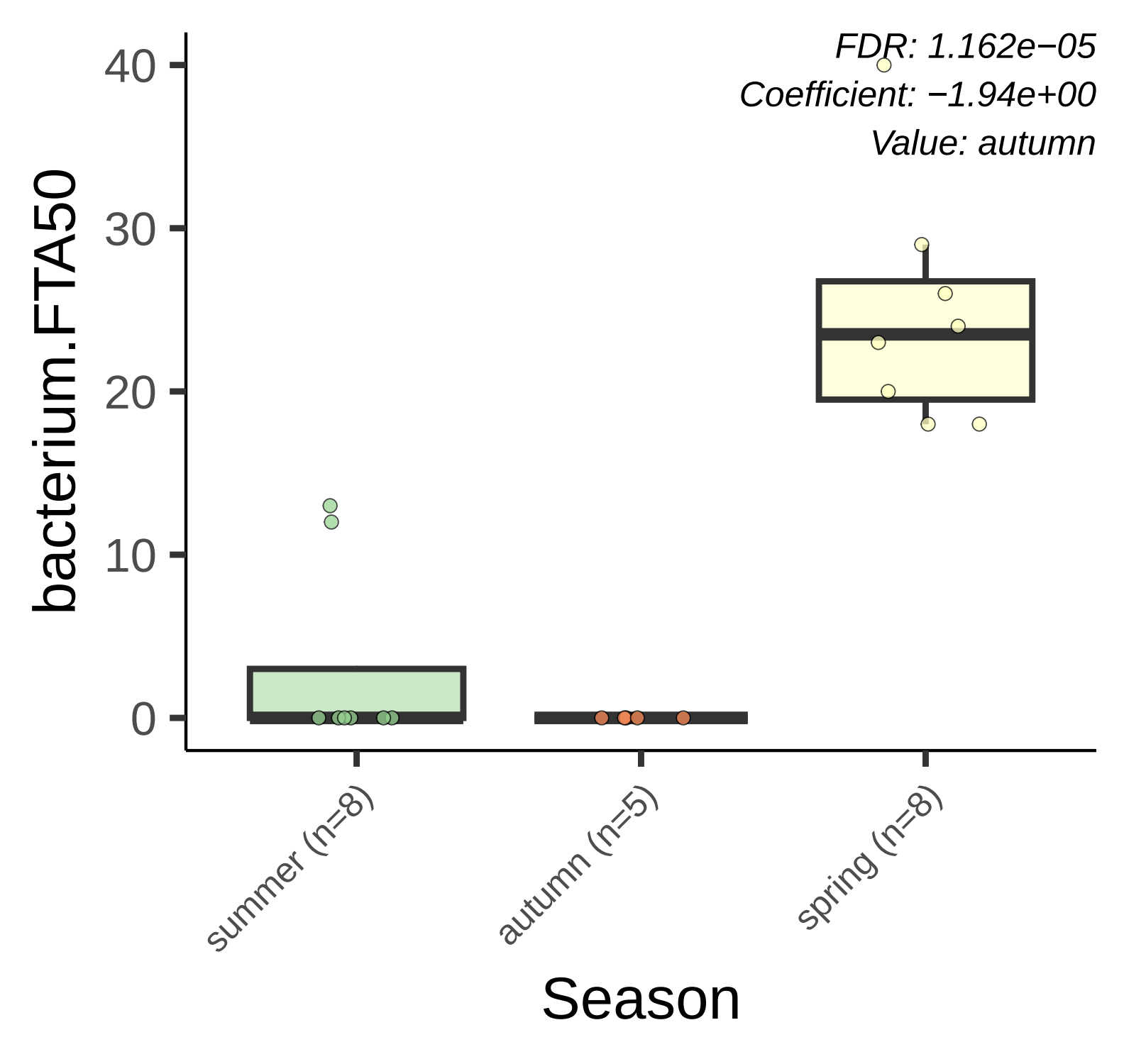

FDR: 7.170e−06
Coefficient: −3.76e+00
Value: autumn
Winogradskyella.sp..J14.2
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

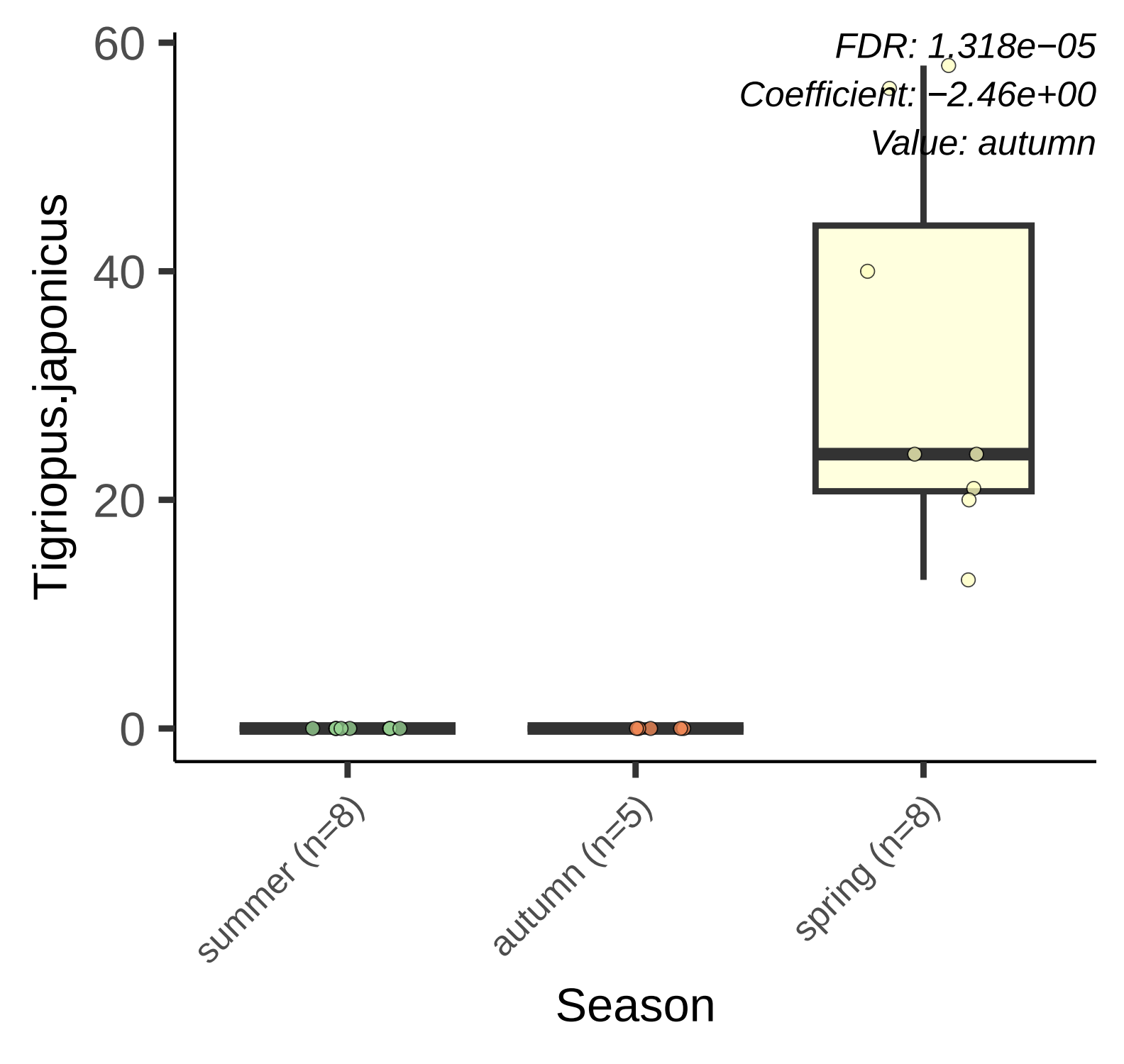

FDR: 7.552e−06
Coefficient: −2.39e+00
Value: autumn
uncultured.Myxococcales.bacterium
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

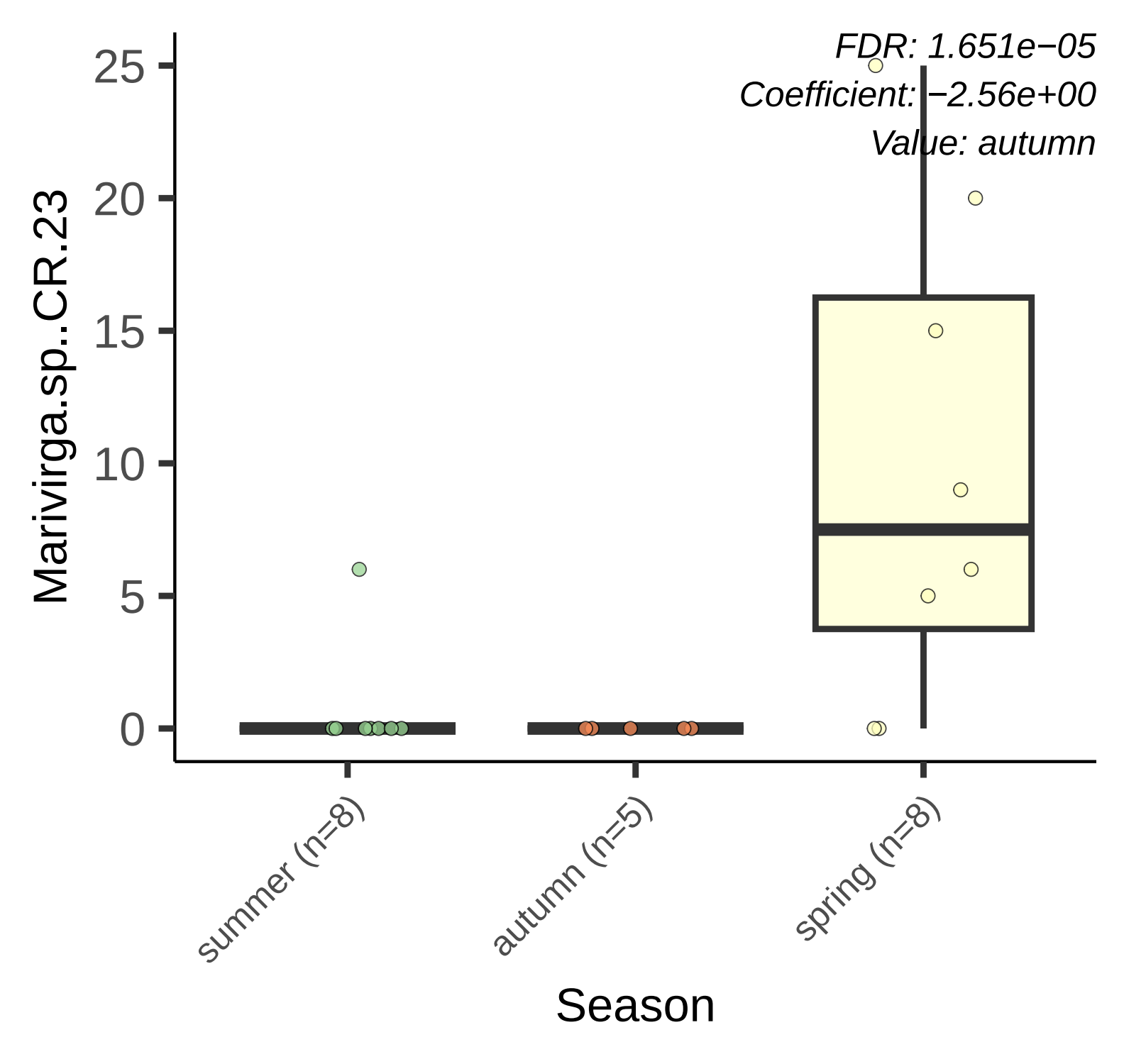

FDR: 8.744e−06
Coefficient: −2.08e+00
Value: autumn
Sphingobacterium.sp..ML3W
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

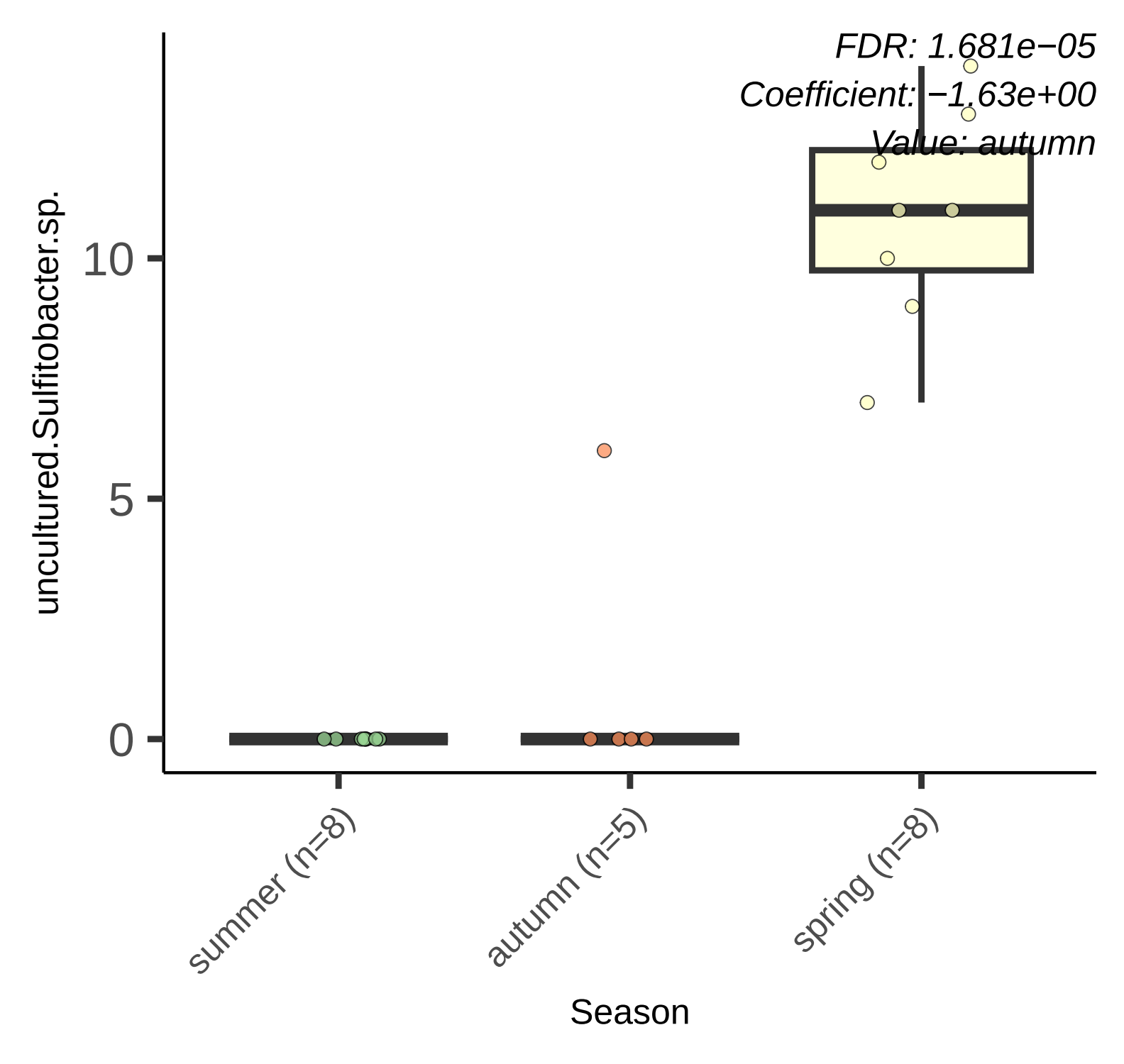

FDR: 9.519e−06
Coefficient: −2.77e+00
Value: autumn
Scylla.paramamosain
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

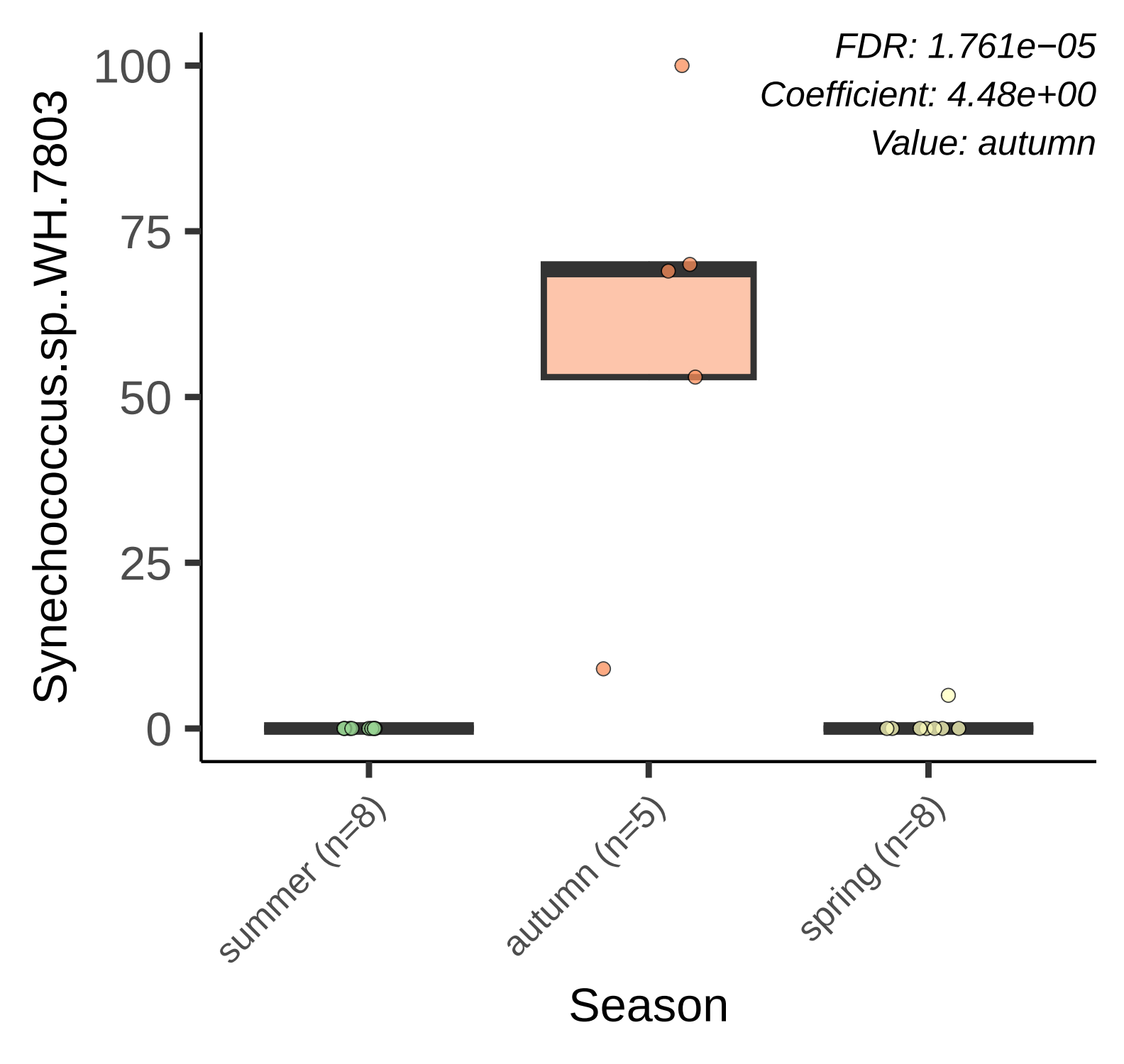

FDR: 1.054e−05
Coefficient: −2.68e+00
Value: autumn
Rebecca.salina
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

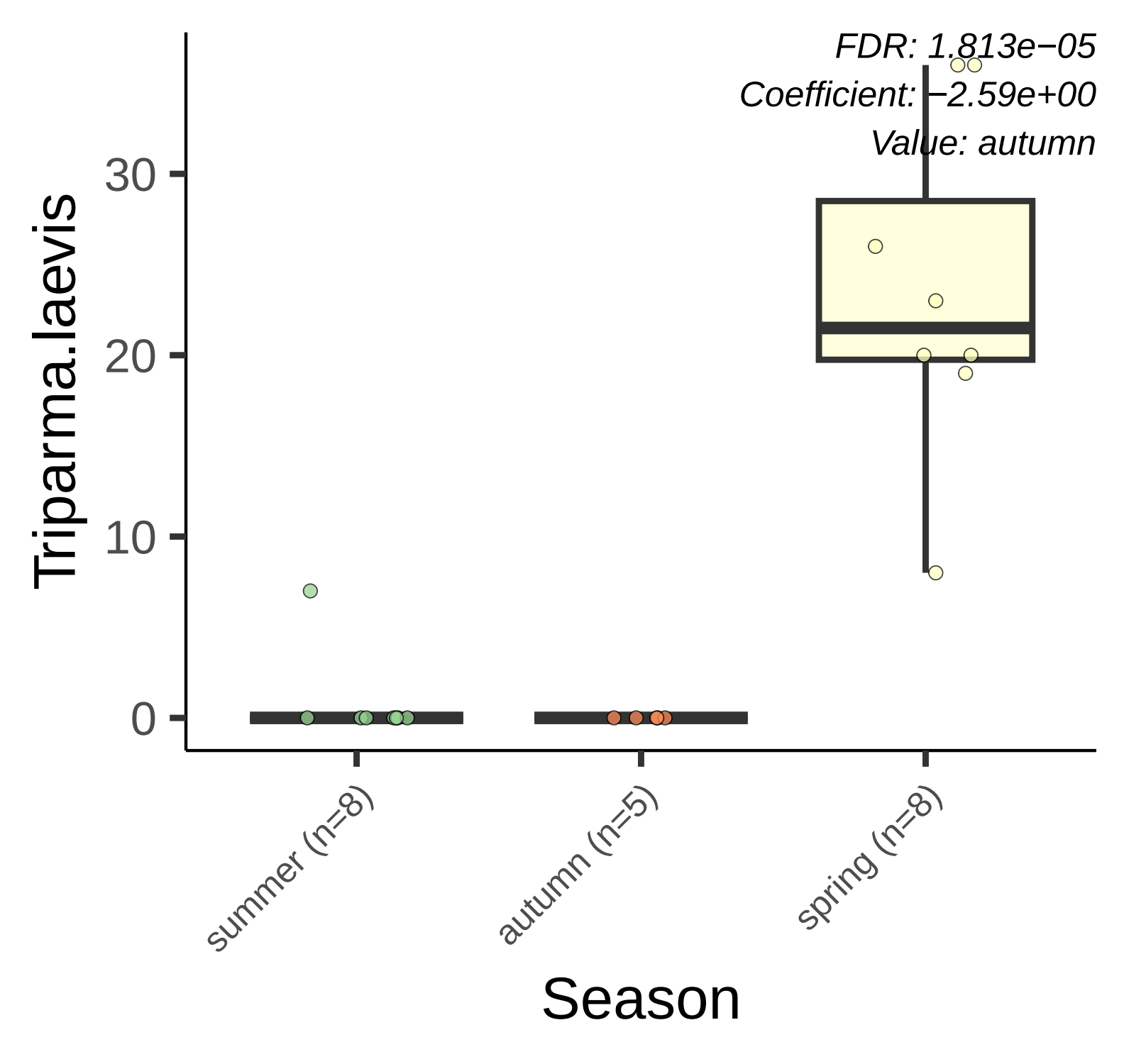

FDR: 1.162e−05
Coefficient: −1.94e+00
Value: autumn
bacterium.FTA50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

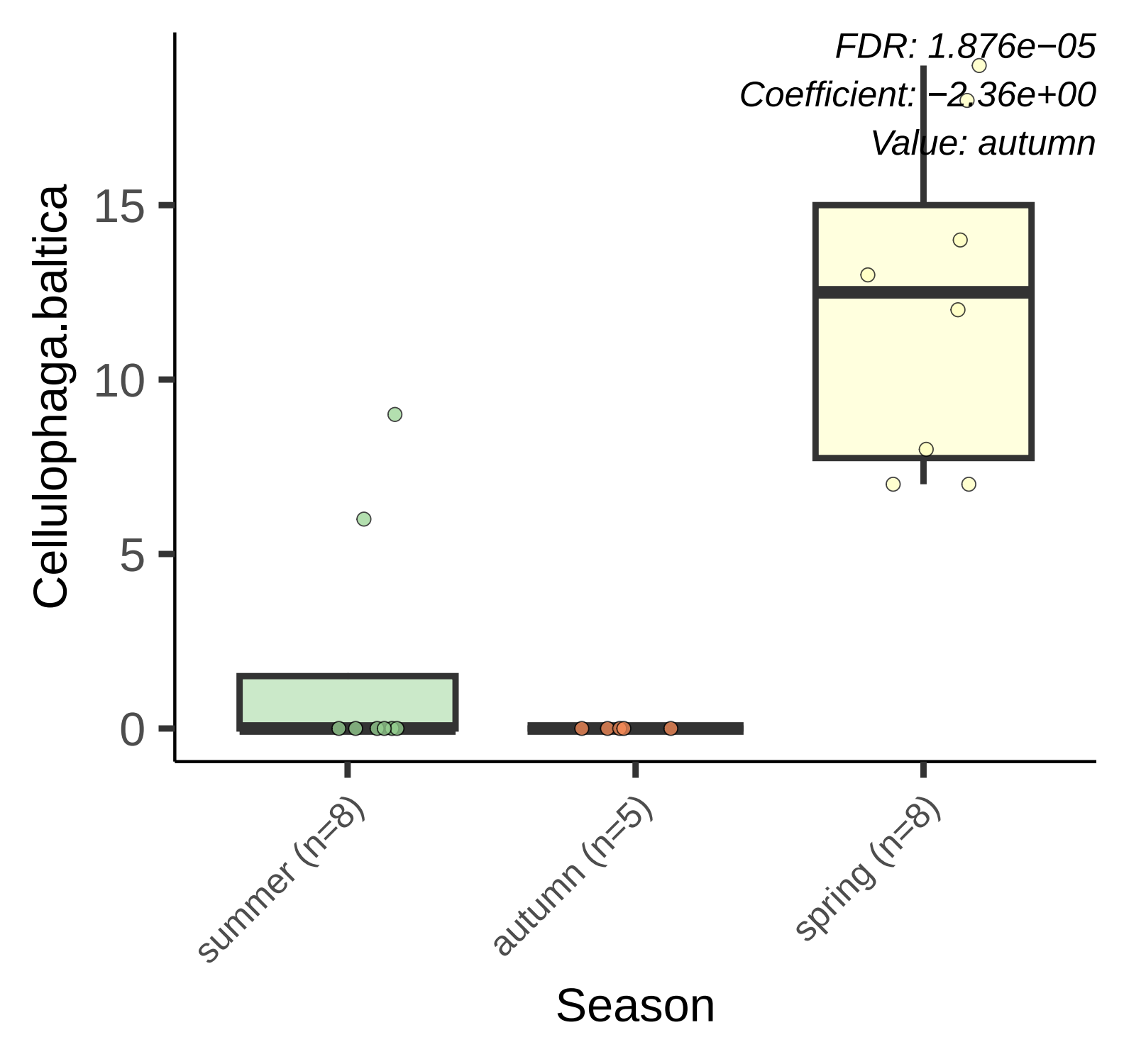

FDR: 1.318e−05
Coefficient: −2.46e+00
Value: autumn
Tigriopus.japonicus
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

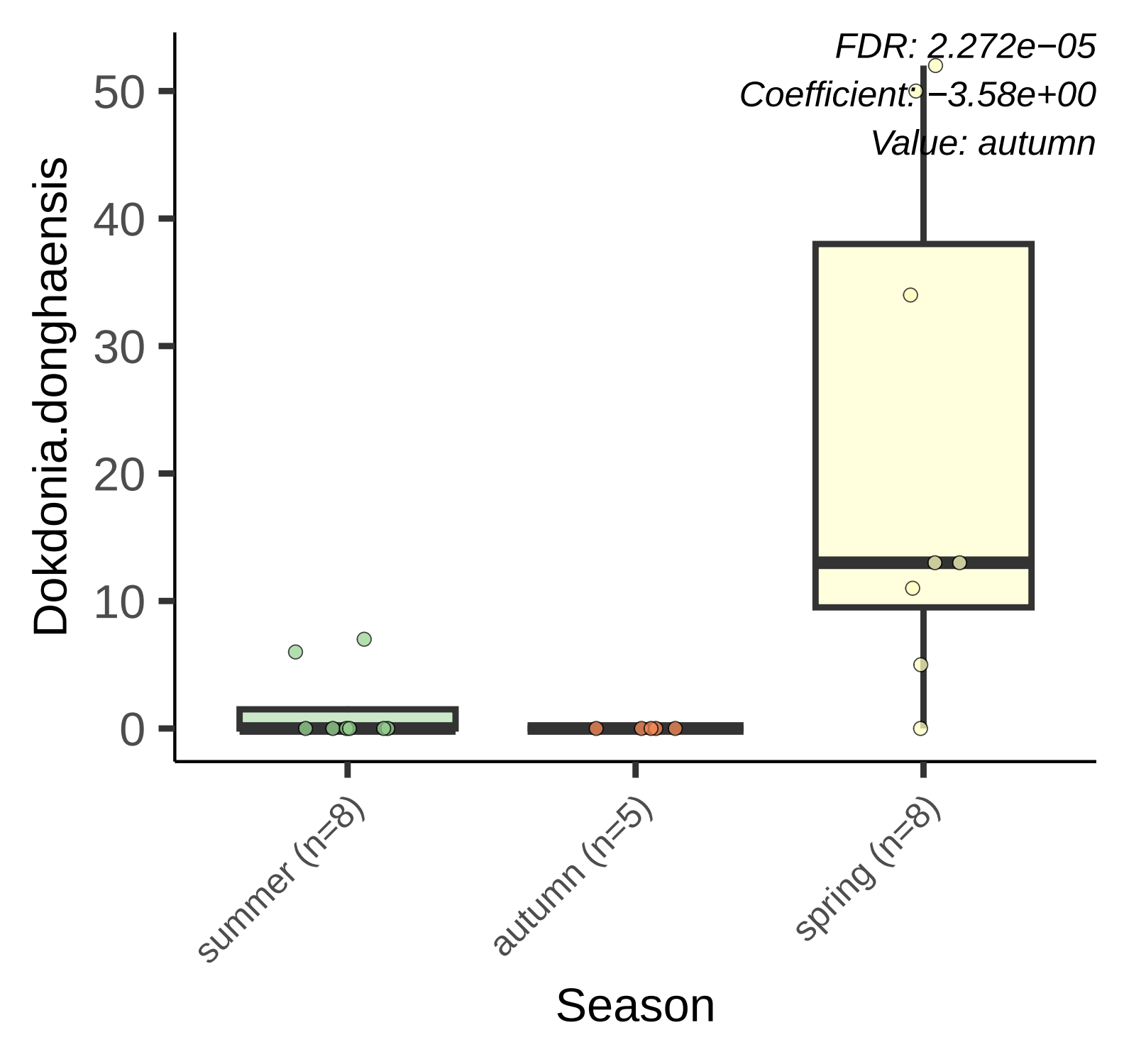

FDR: 1.651e−05
Coefficient: −2.56e+00
Value: autumn
Marivirga.sp..CR.23
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

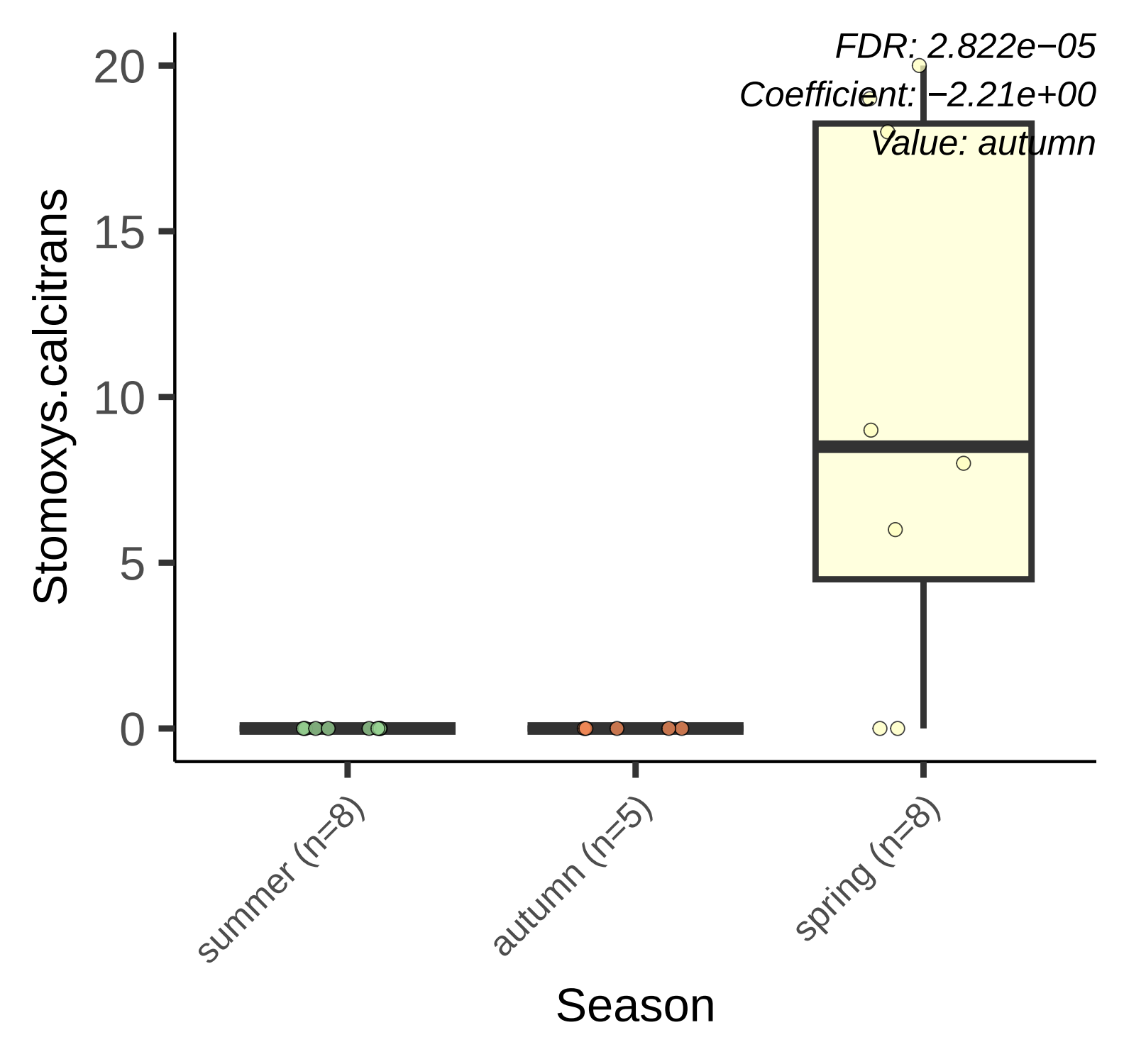

FDR: 1.681e−05
Coefficient: −1.63e+00
Value: autumn
uncultured.Sulfitobacter.sp.
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

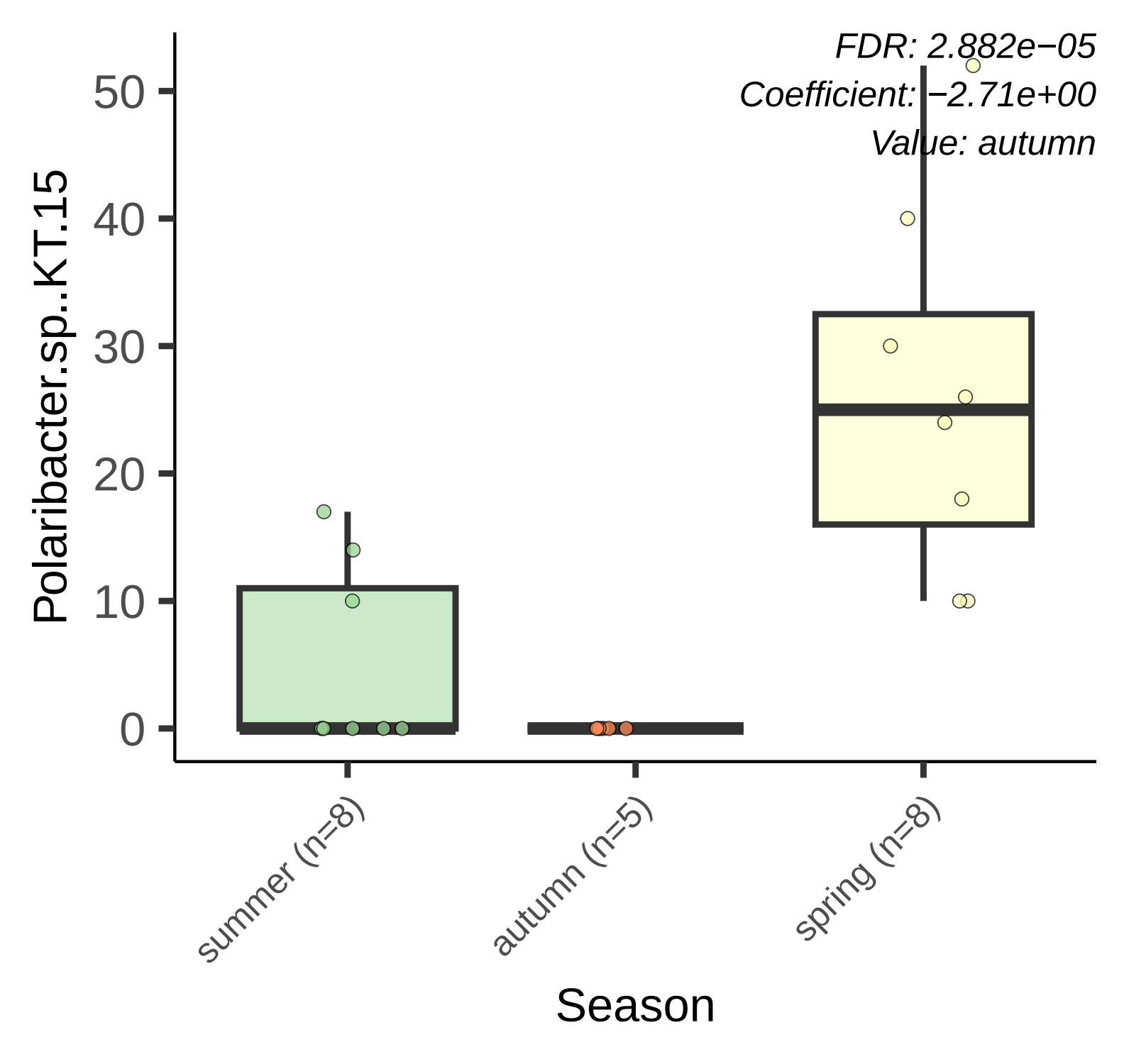

FDR: 1.761e−05
Coefficient: 4.48e+00
Value: autumn
Synechococcus.sp..WH.7803
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

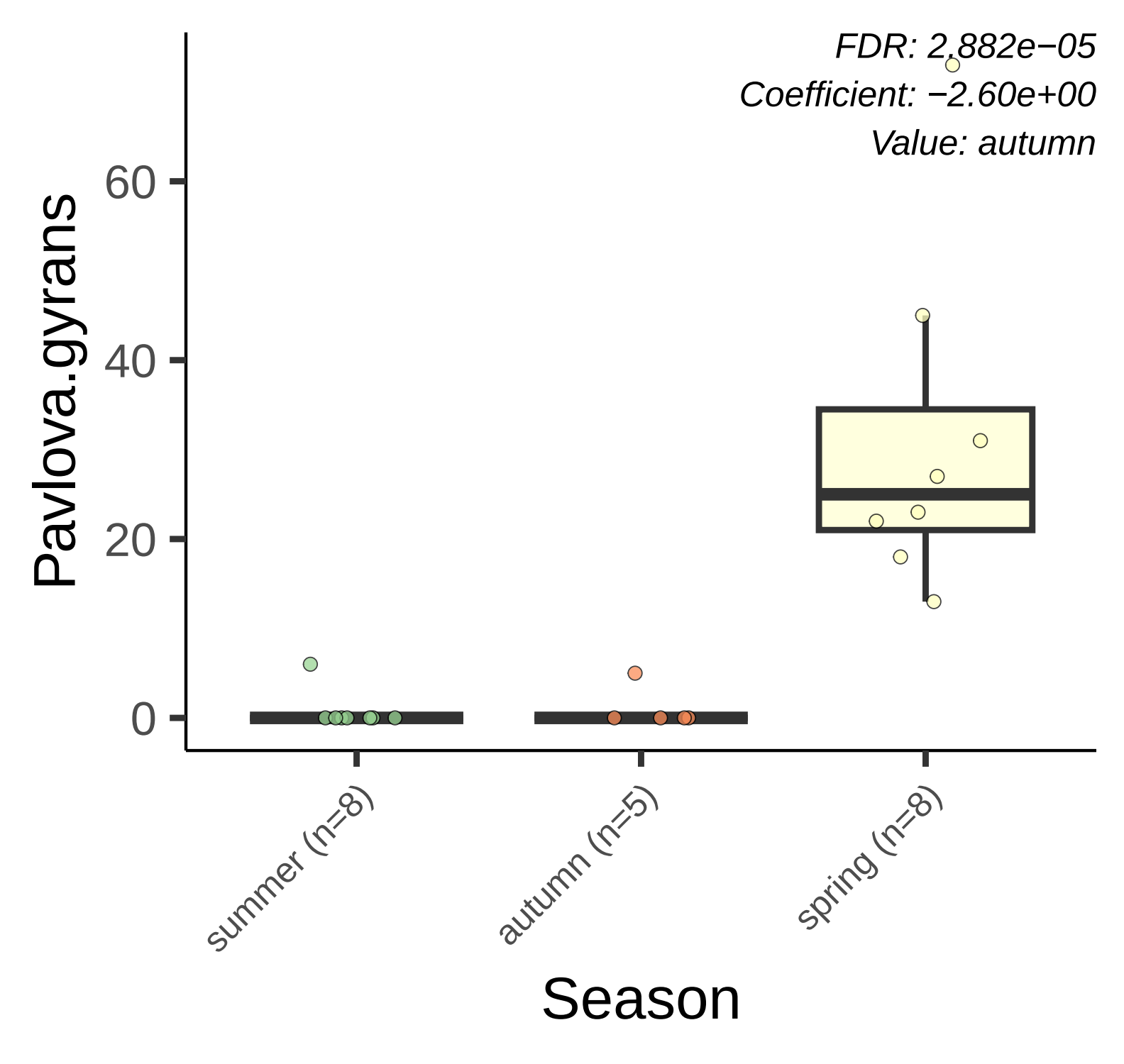

FDR: 1.813e−05
Coefficient: −2.59e+00
Value: autumn
Triparma.laevis
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

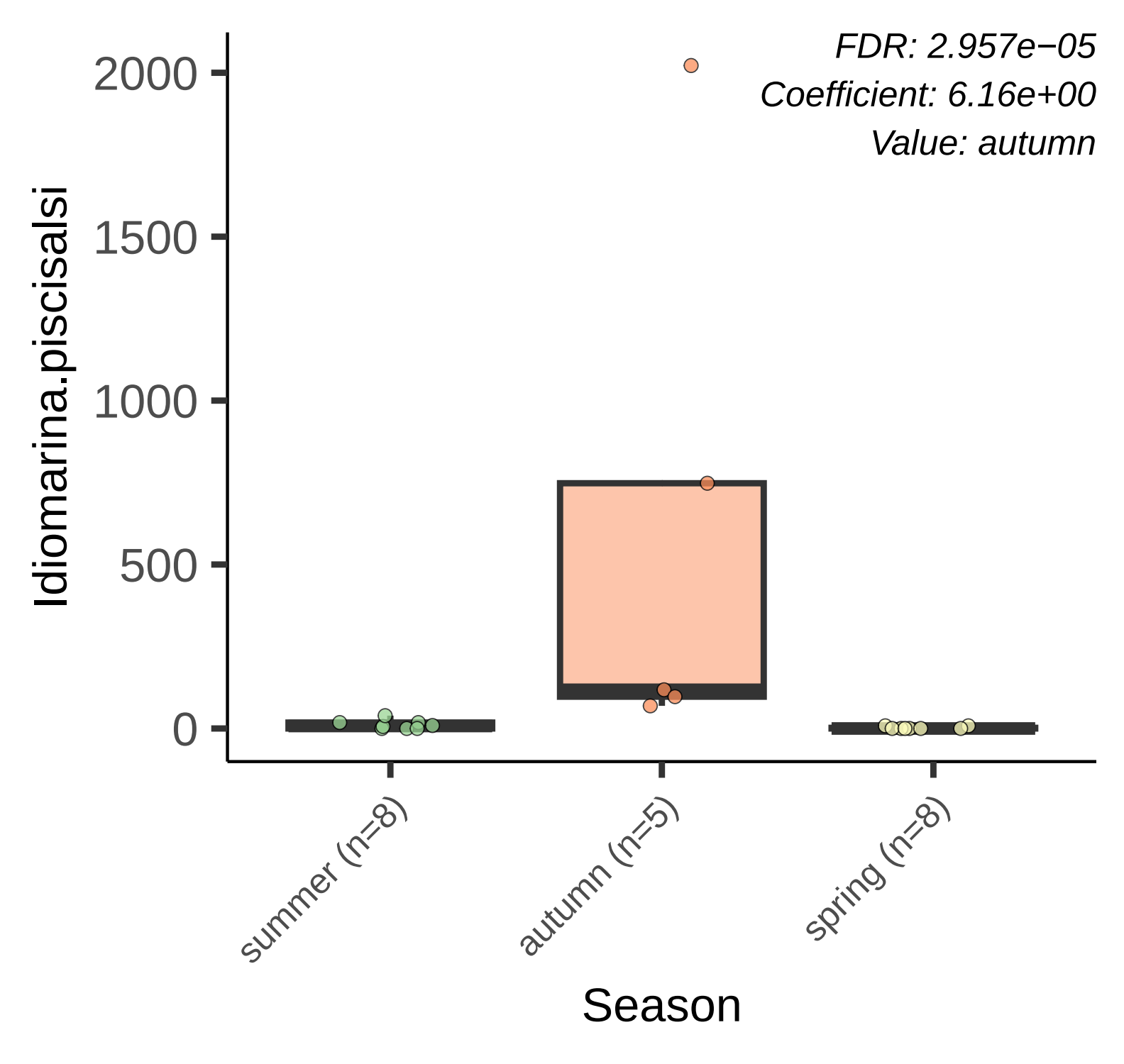

FDR: 1.876e−05
Coefficient: −2.36e+00
Value: autumn
Cellulophaga.baltica
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

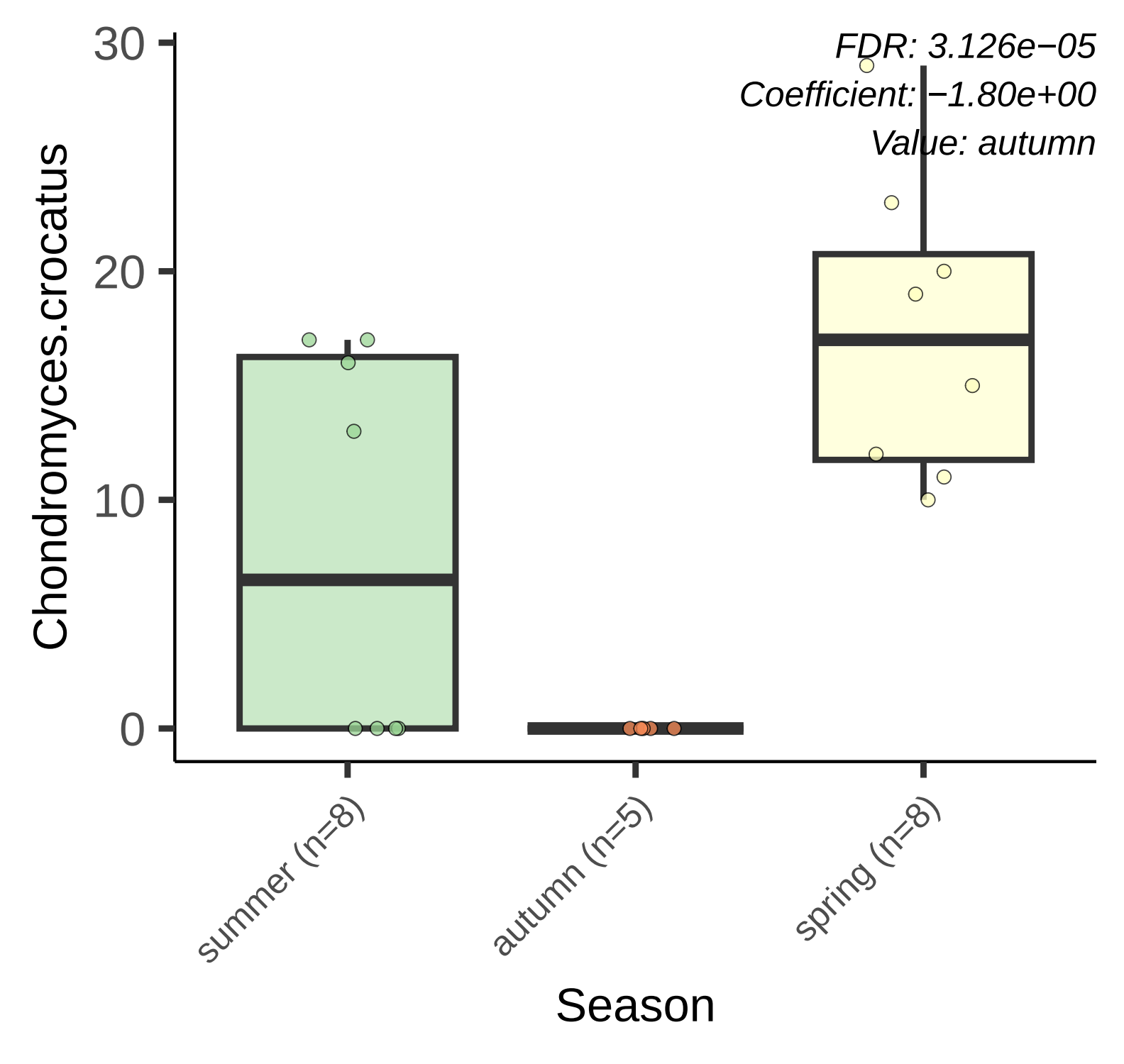

FDR: 2.272e−05
Coefficient: −3.58e+00
Value: autumn
Dokdonia.donghaensis
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

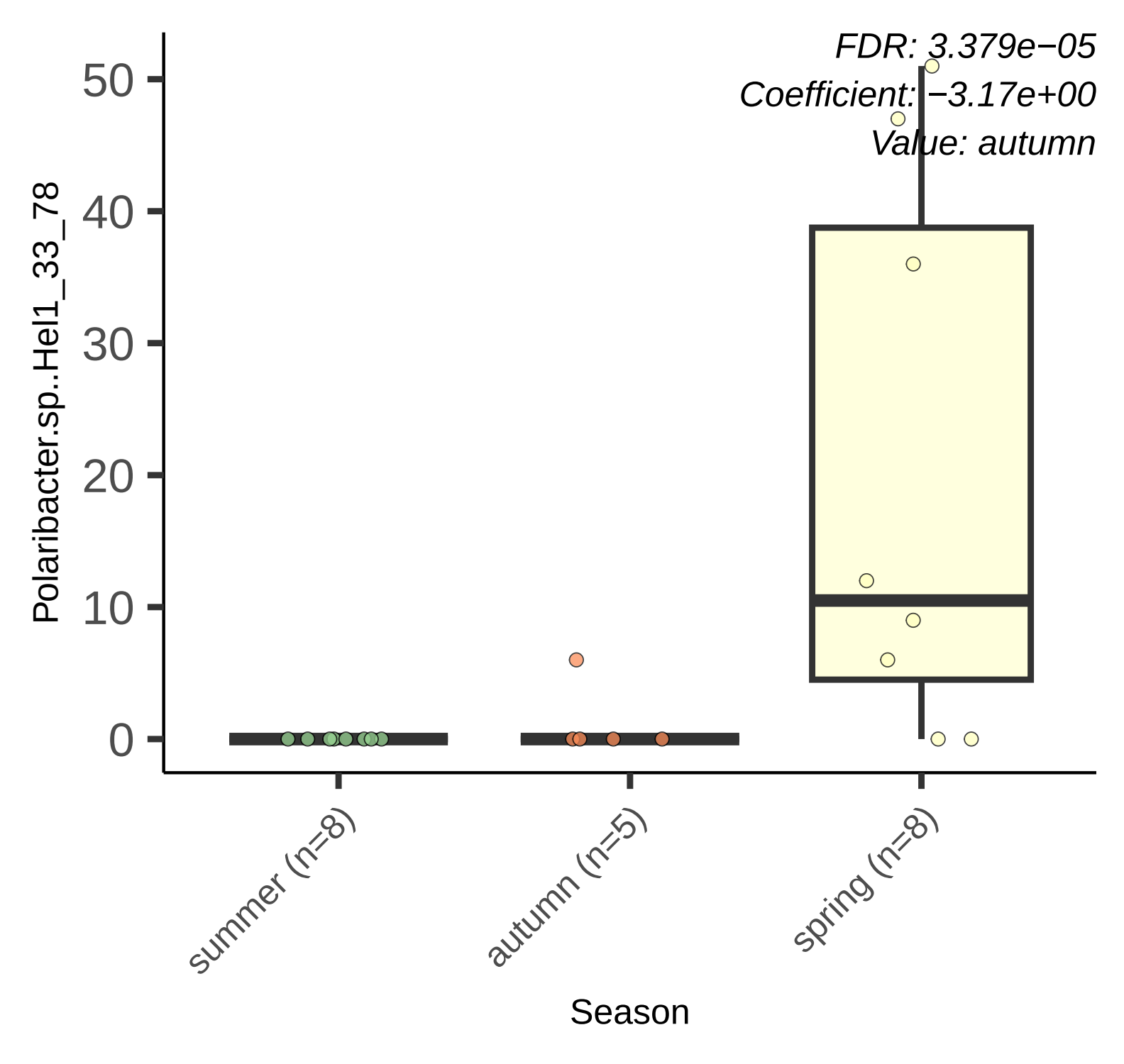

FDR: 2.822e−05
Coefficient: −2.21e+00
Value: autumn
Stomoxys.calcitrans
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

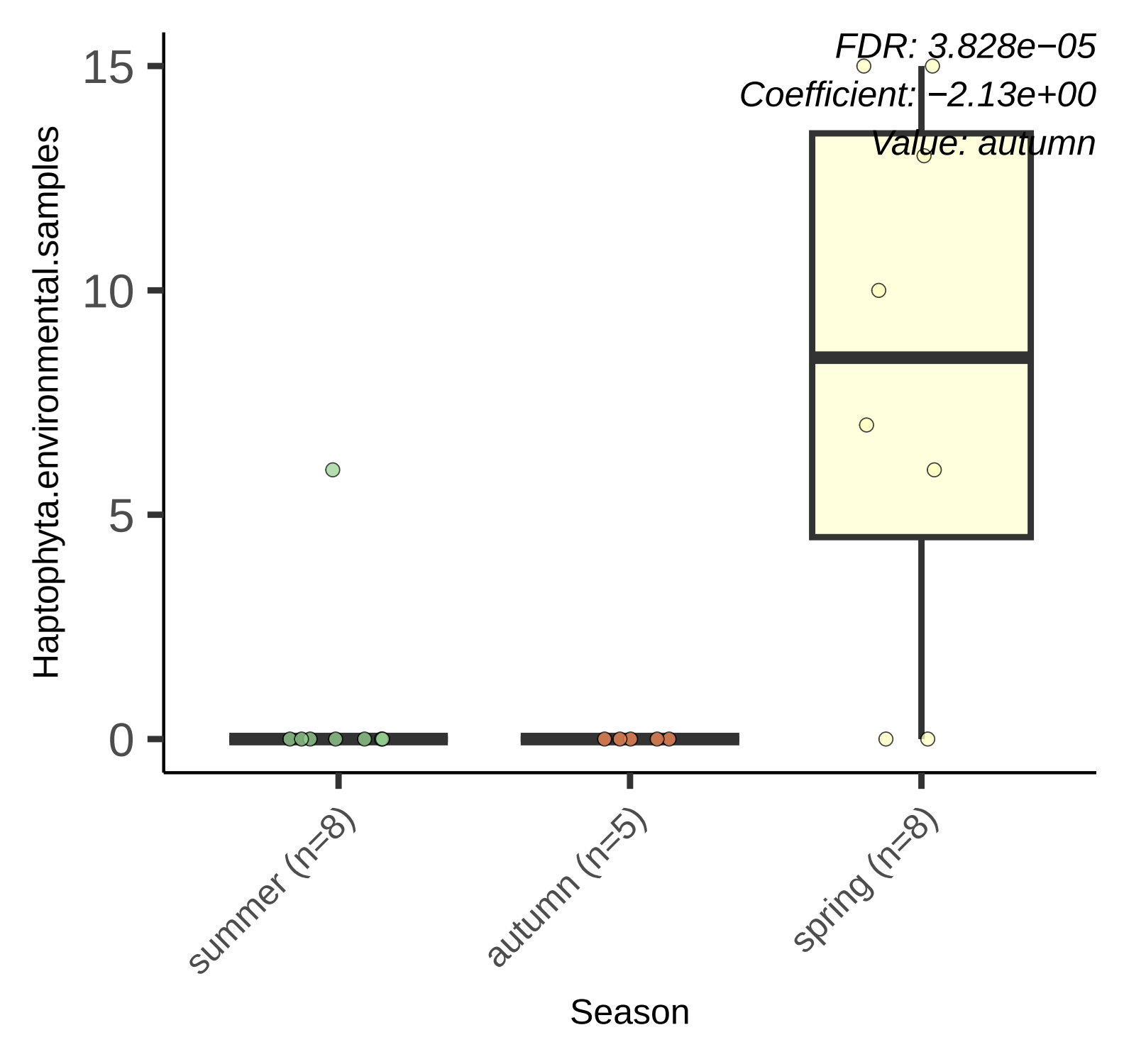

FDR: 2.882e−05
Coefficient: −2.71e+00
Value: autumn
Polaribacter.sp..KT.15
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

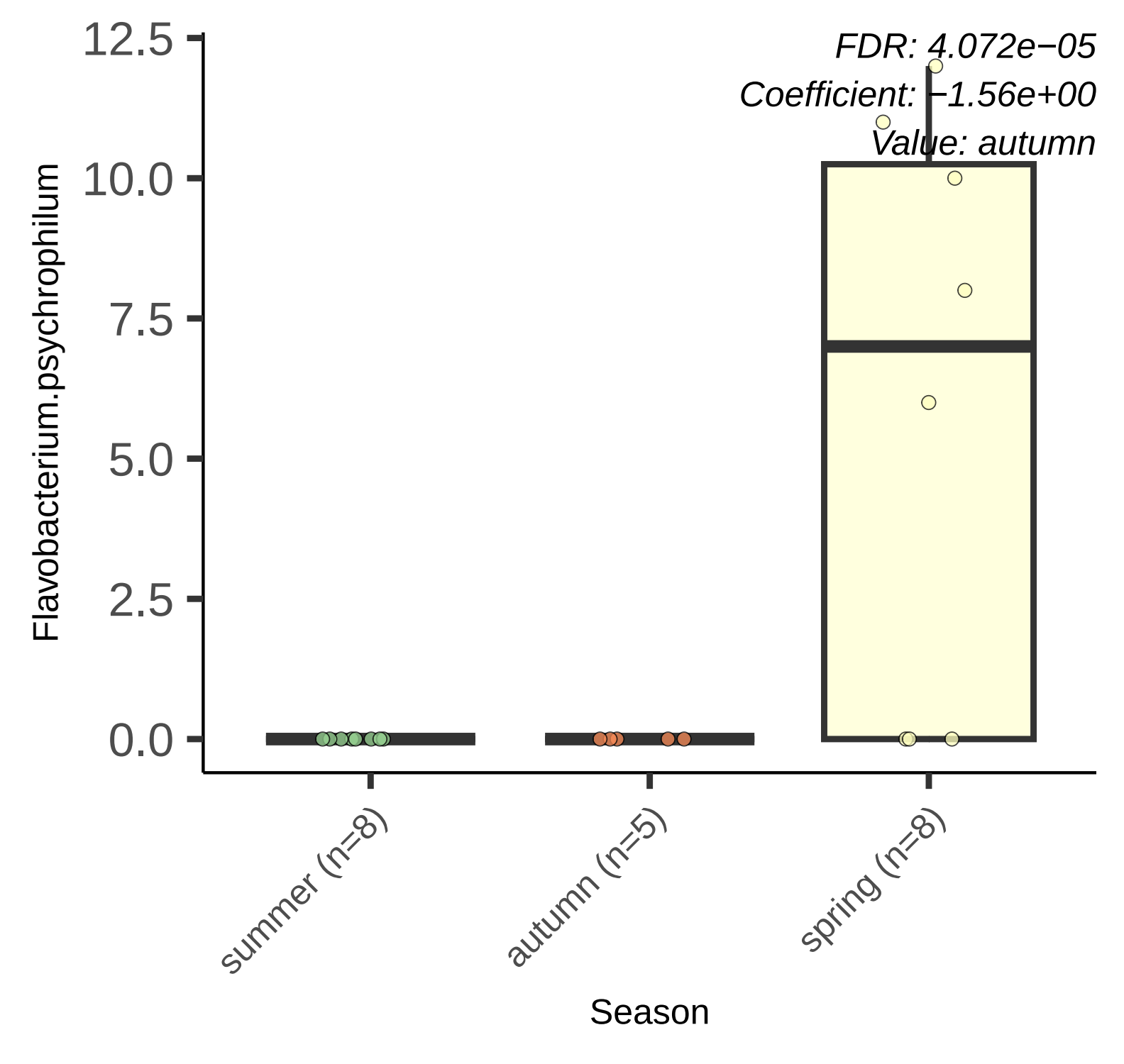

FDR: 2.882e−05
Coefficient: −2.60e+00
Value: autumn
Pavlova.gyrans
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

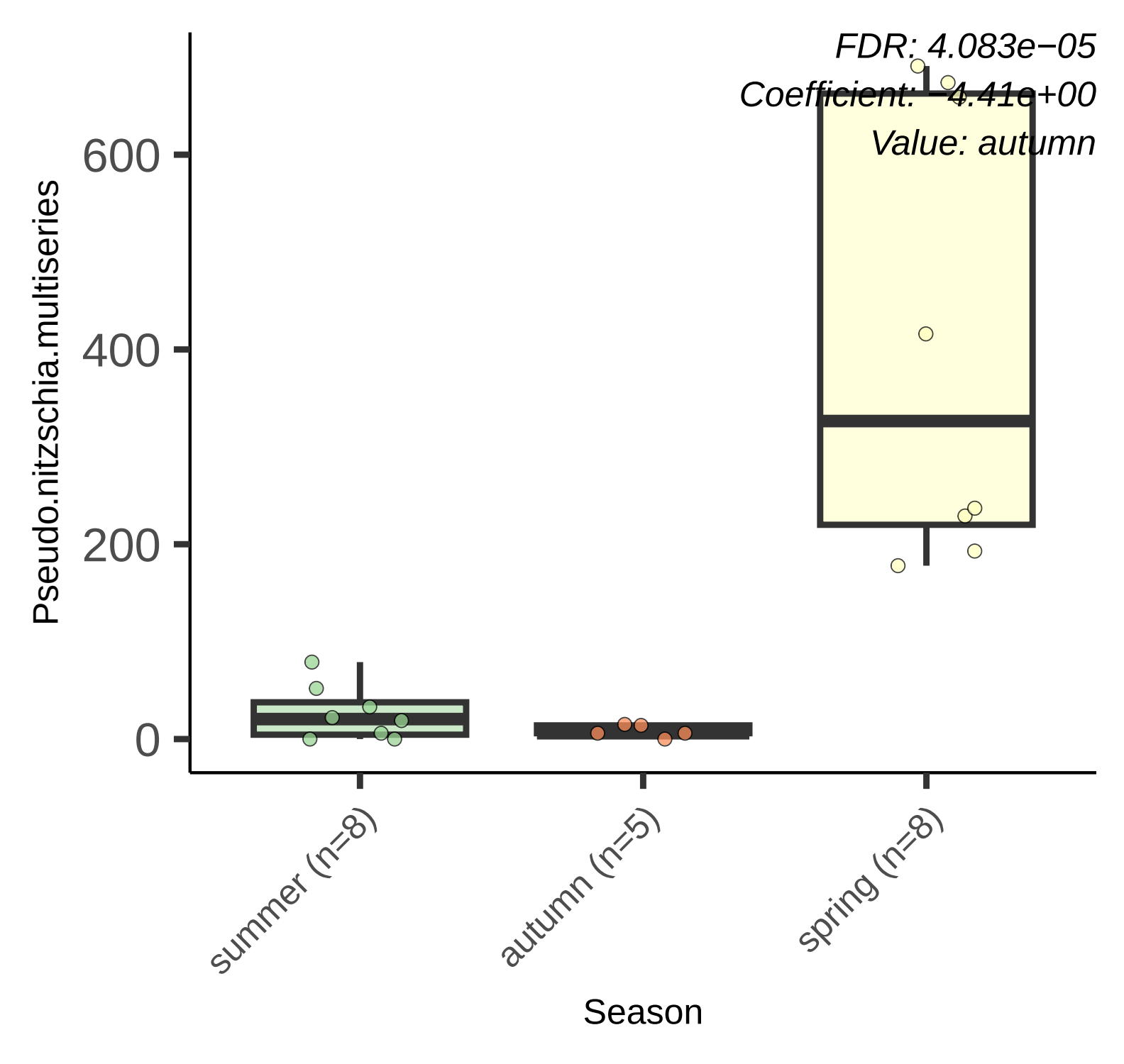

FDR: 2.957e−05
Coefficient: 6.16e+00
Value: autumn
Idiomarina.piscisalsi
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

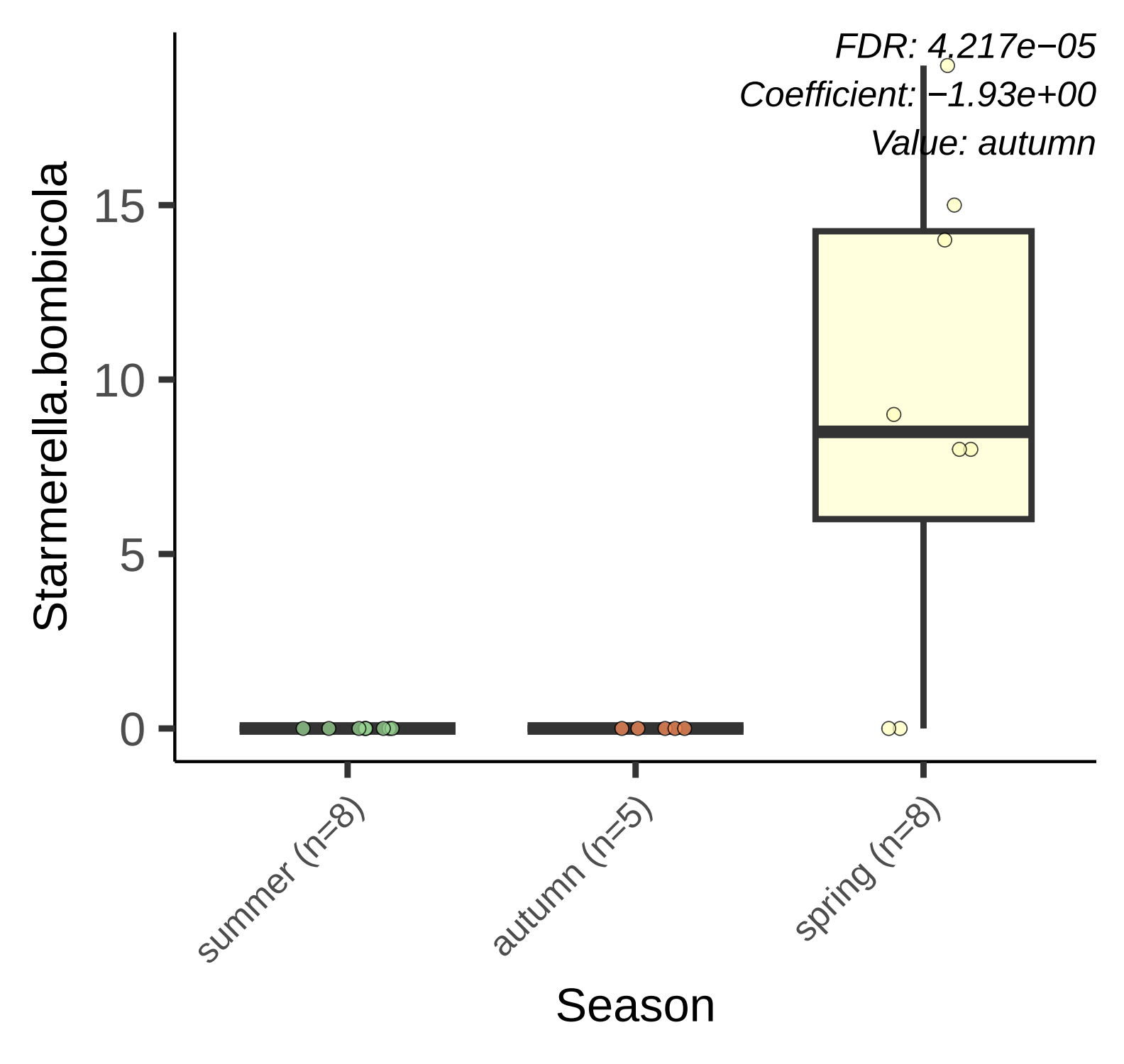

FDR: 3.126e−05
Coefficient: −1.80e+00
Value: autumn
Chondromyces.crocatus
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

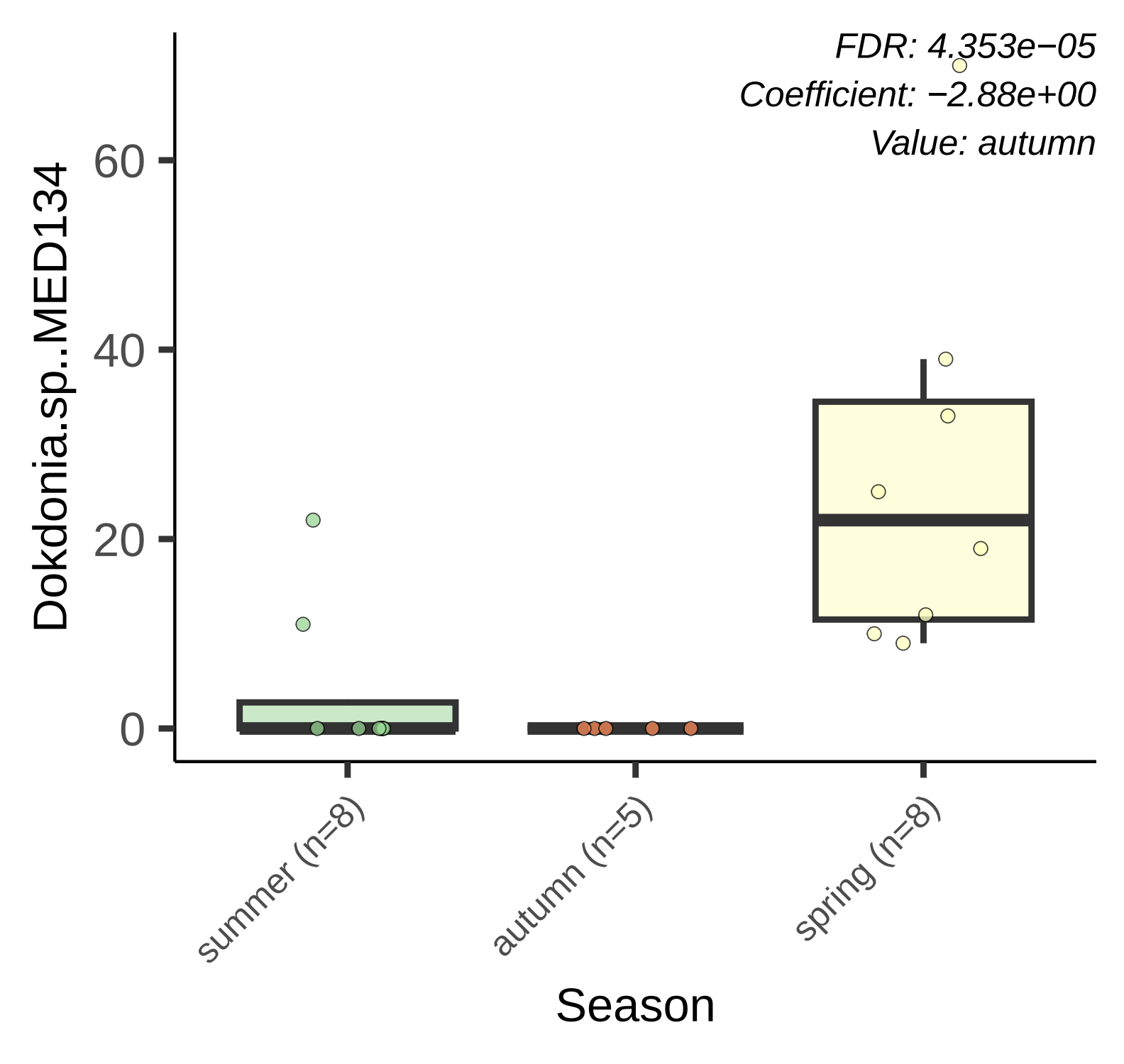

FDR: 3.379e−05
Coefficient: −3.17e+00
Value: autumn
Polaribacter.sp..Hel1_33_78
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

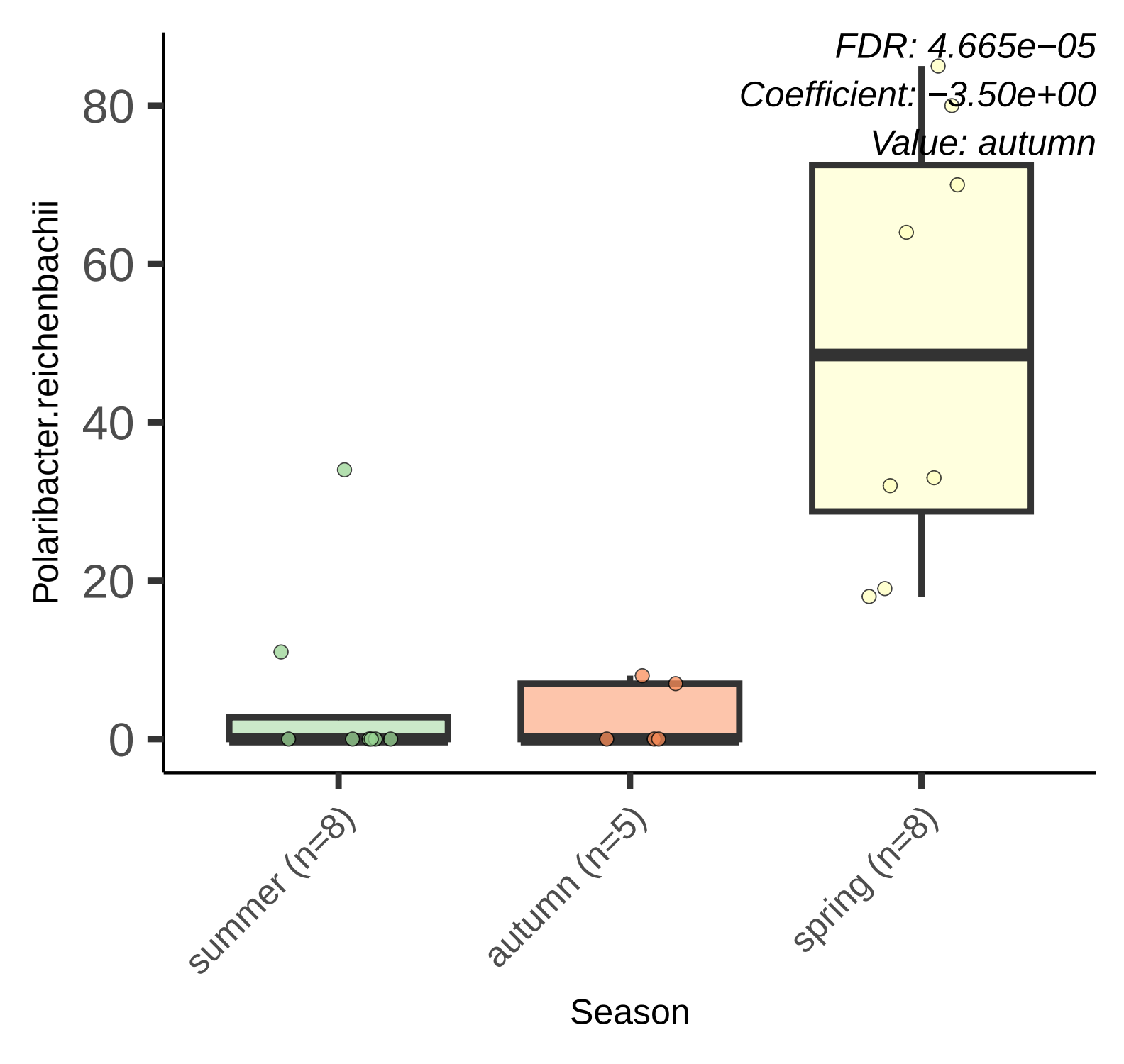

FDR: 3.828e−05
Coefficient: −2.13e+00
Value: autumn
15
10
5
0
Haptophyta.environmental.samples
summer (n=8)
autumn (n=5)
spring (n=8)
Season

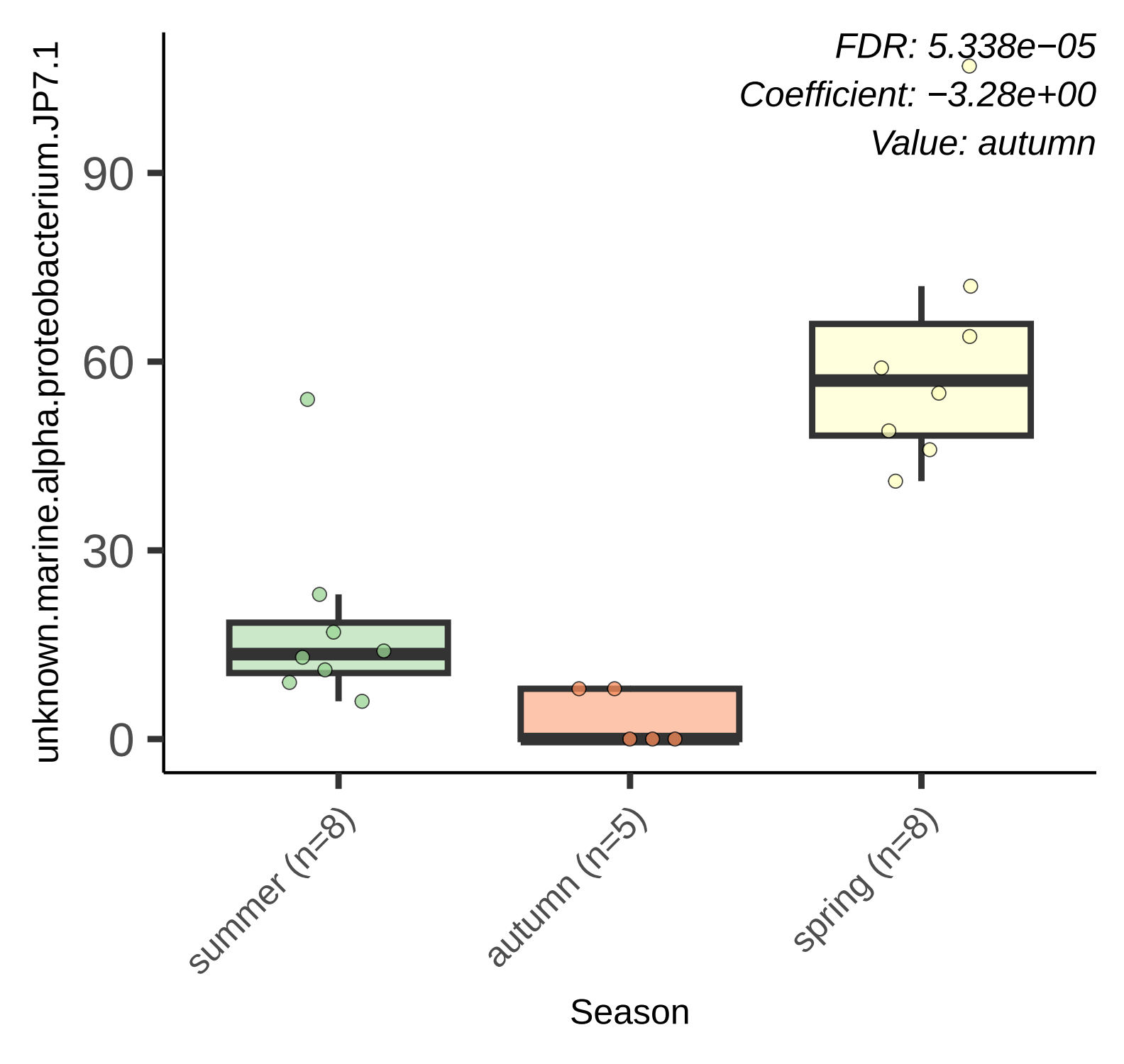

FDR: 4.072e−05
Coefficient: −1.56e+00
Value: autumn
Flavobacterium.psychrophilum
12.5
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

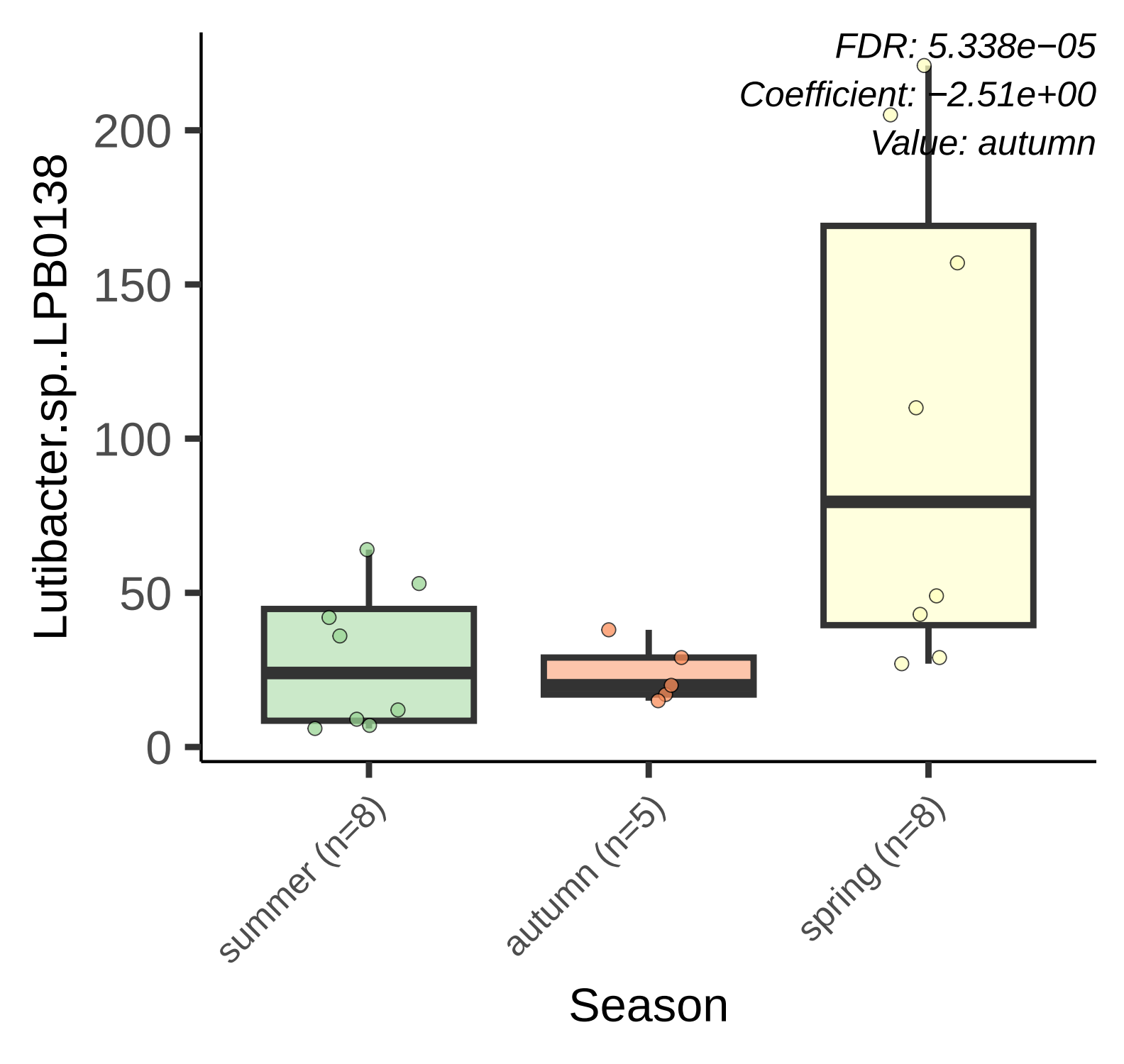

FDR: 4.083e−05
Coefficient: −4.41e+00
Value: autumn
600
400
200
0
Pseudo.nitzschia.multiseries
summer (n=8)
autumn (n=5)
spring (n=8)
Season

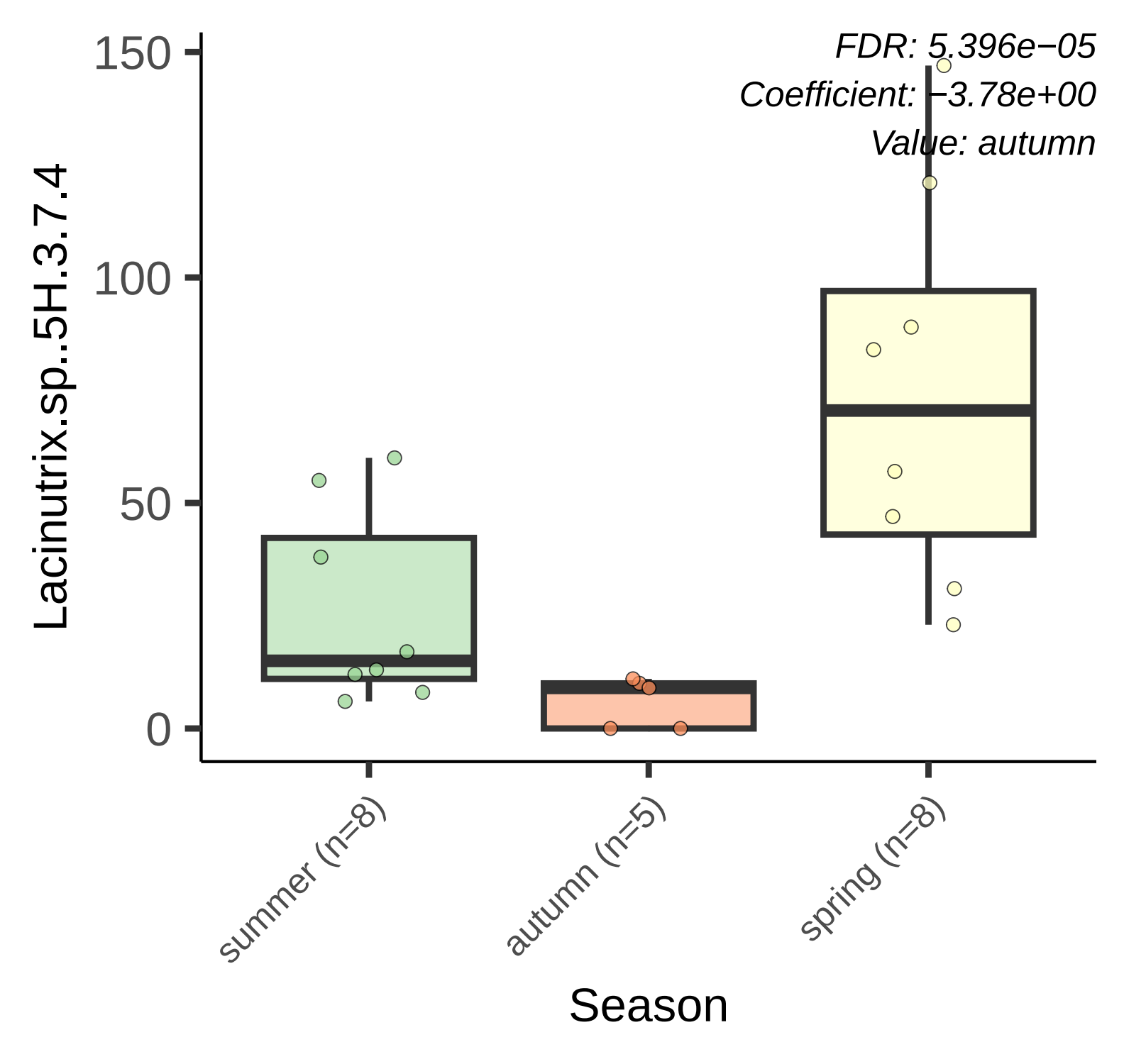

FDR: 4.217e−05
Coefficient: −1.93e+00
Value: autumn
Starmerella.bombicola
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

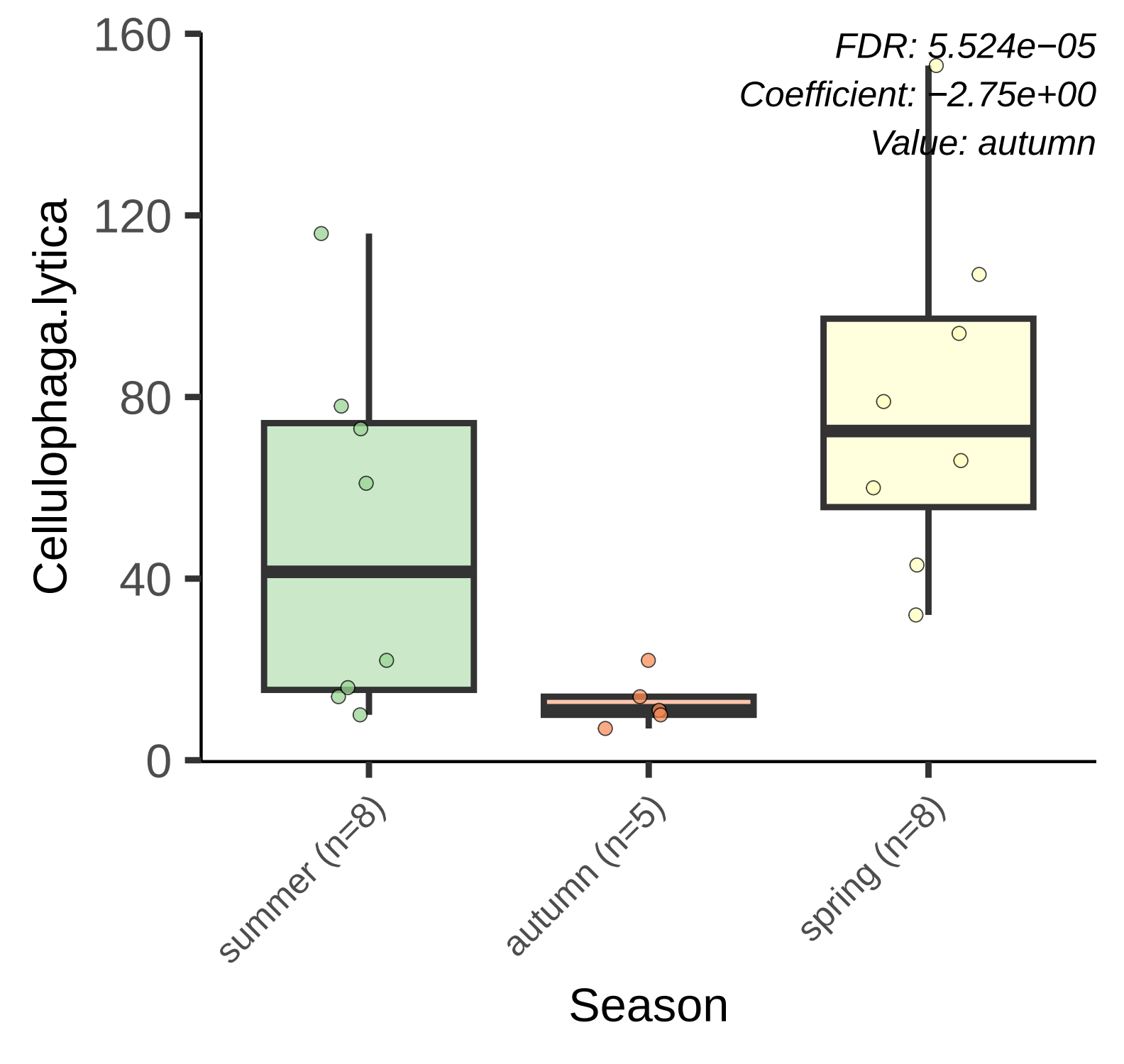

FDR: 4.353e−05
Coefficient: −2.88e+00
Value: autumn
Dokdonia.sp..MED134
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

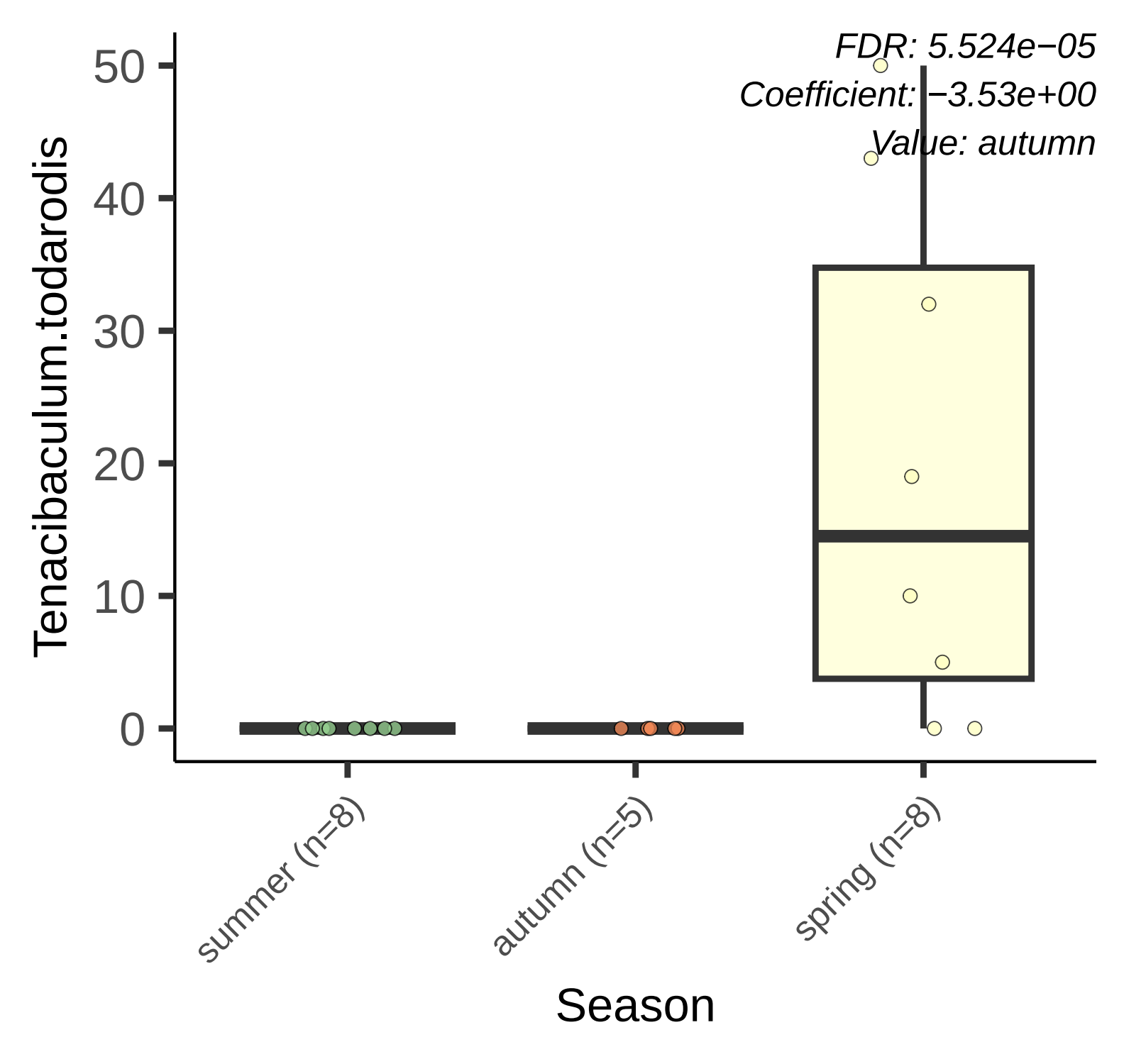

FDR: 4.665e−05
Coefficient: −3.50e+00
Value: autumn
Polaribacter.reichenbachii
80
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

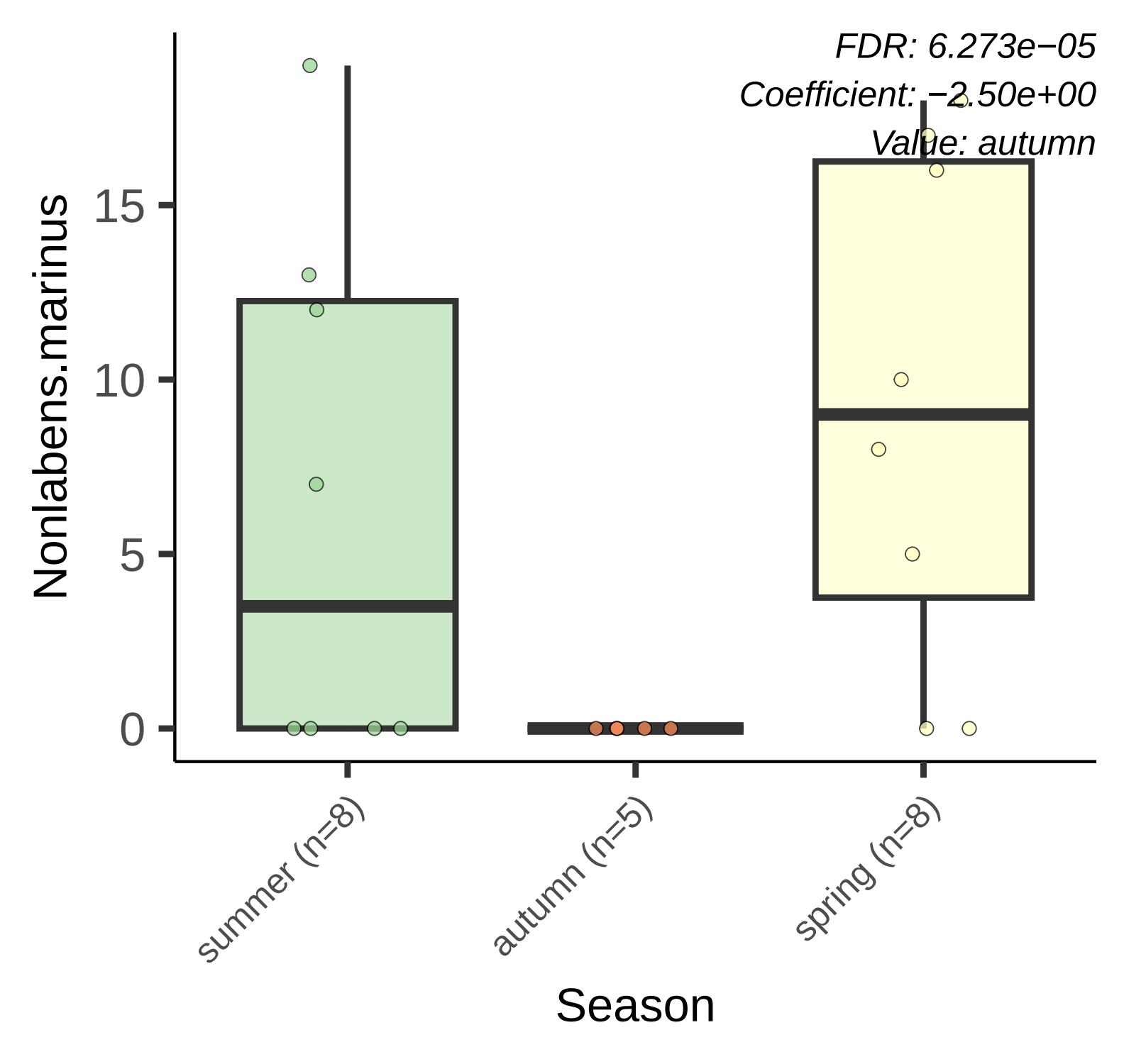

FDR: 5.338e−05
Coefficient: −3.28e+00
Value: autumn
unknown.marine.alpha.proteobacterium.JP7.1
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

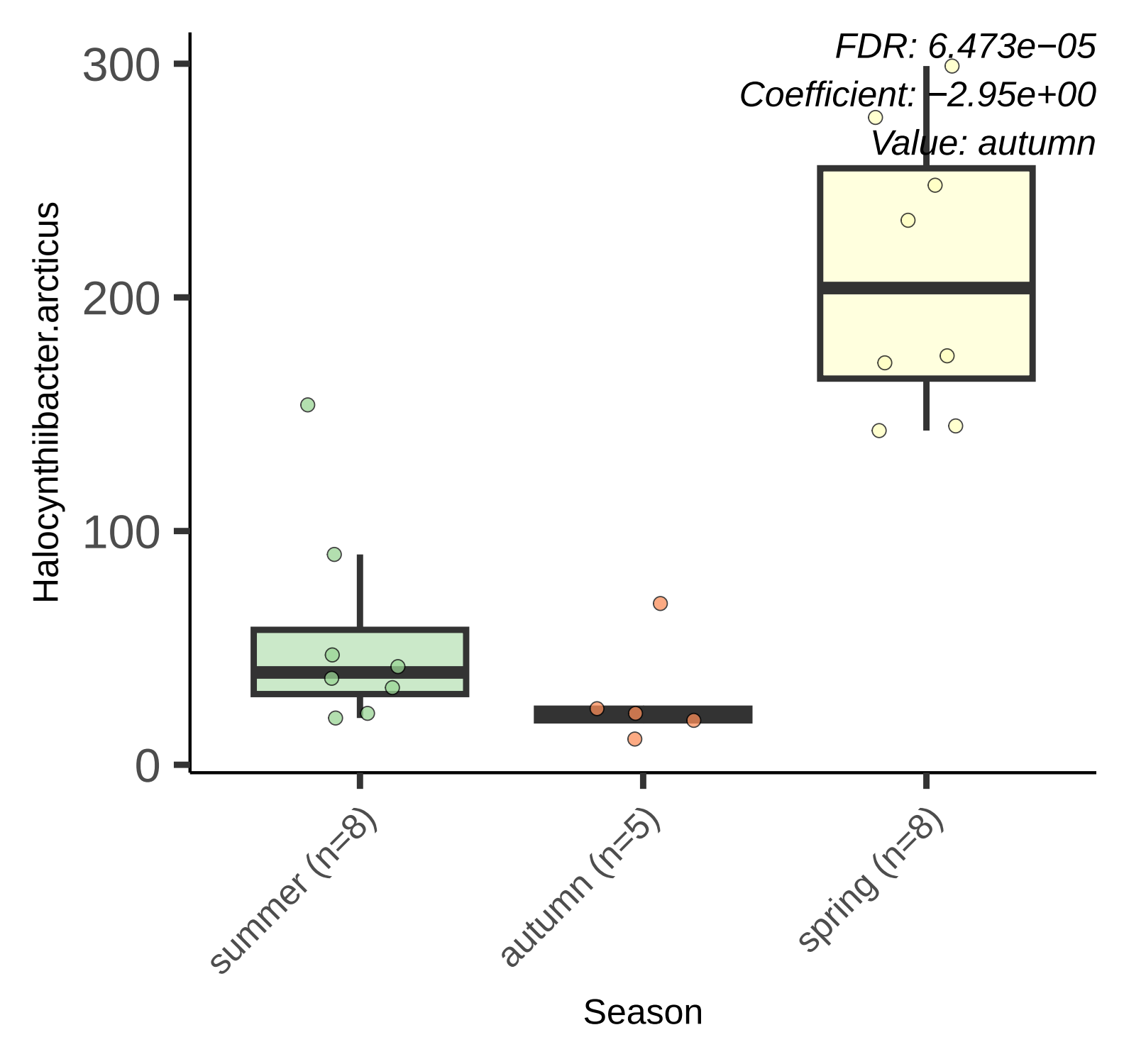

FDR: 5.338e−05
Coefficient: −2.51e+00
Value: autumn
Lutibacter.sp..LPB0138
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

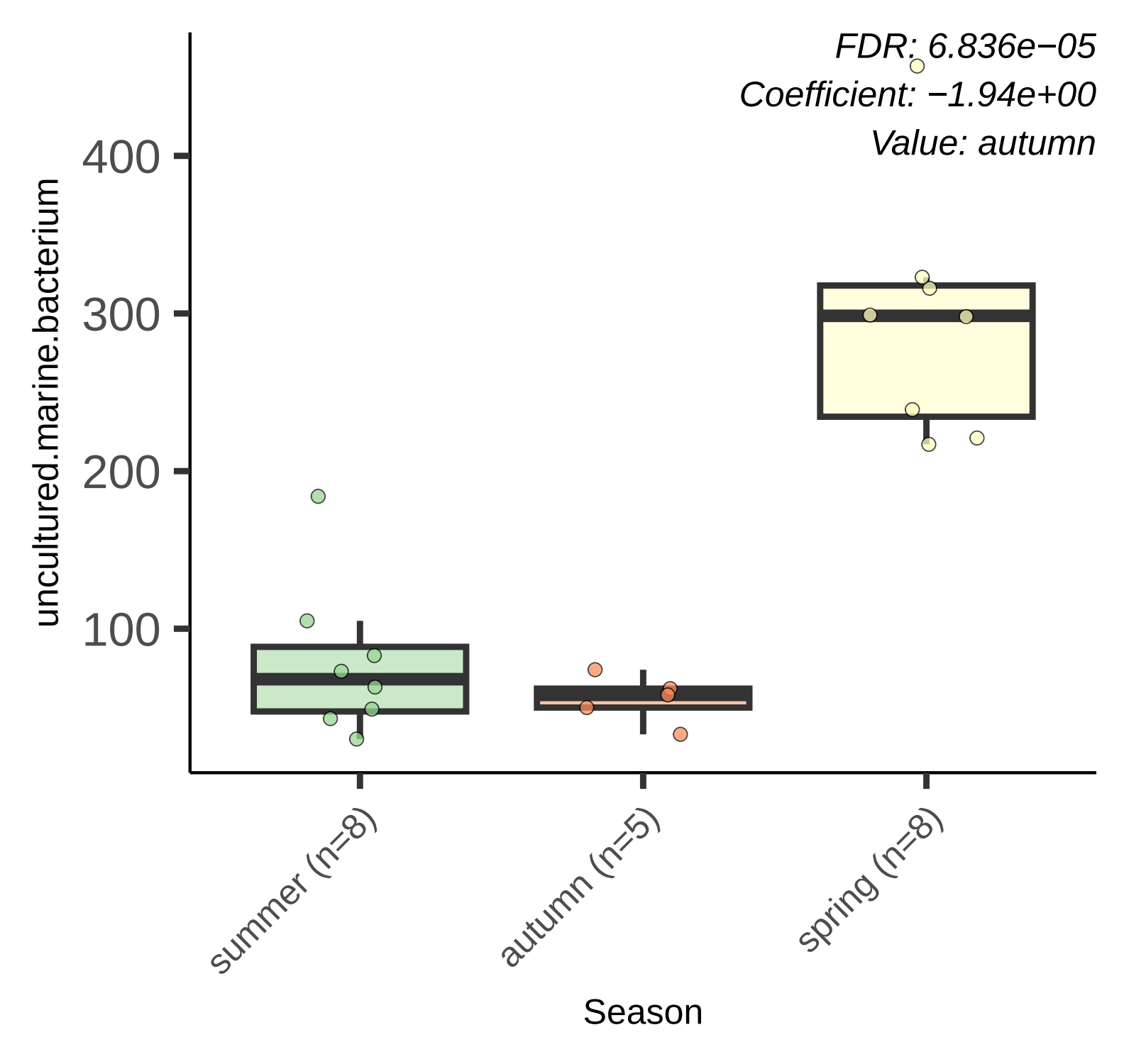

FDR: 5.396e−05
Coefficient: −3.78e+00
Value: autumn
Lacinutrix.sp..5H.3.7.4
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

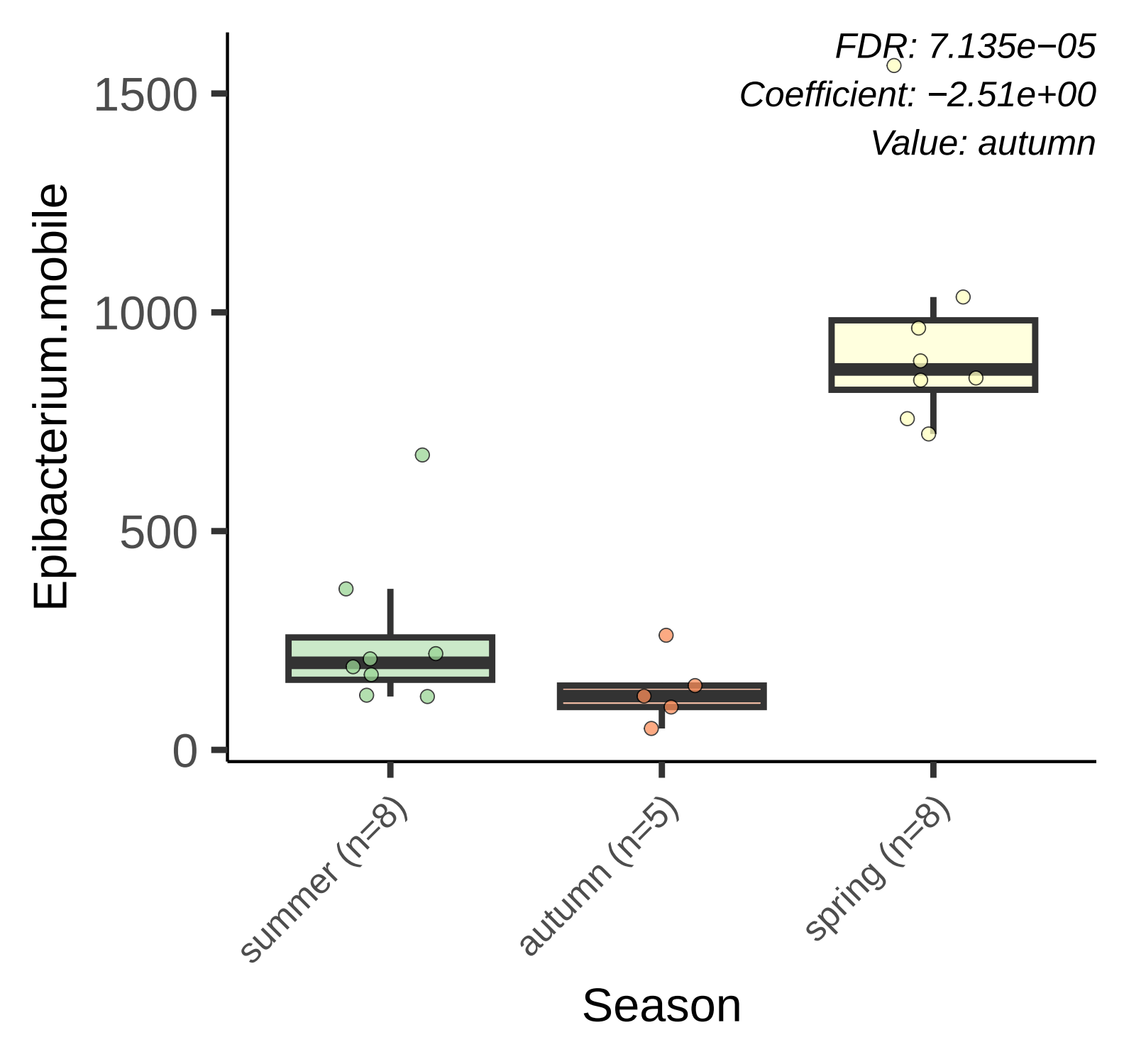

FDR: 5.524e−05
Coefficient: −2.75e+00
Value: autumn
Cellulophaga.lytica
160
120
80
40
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

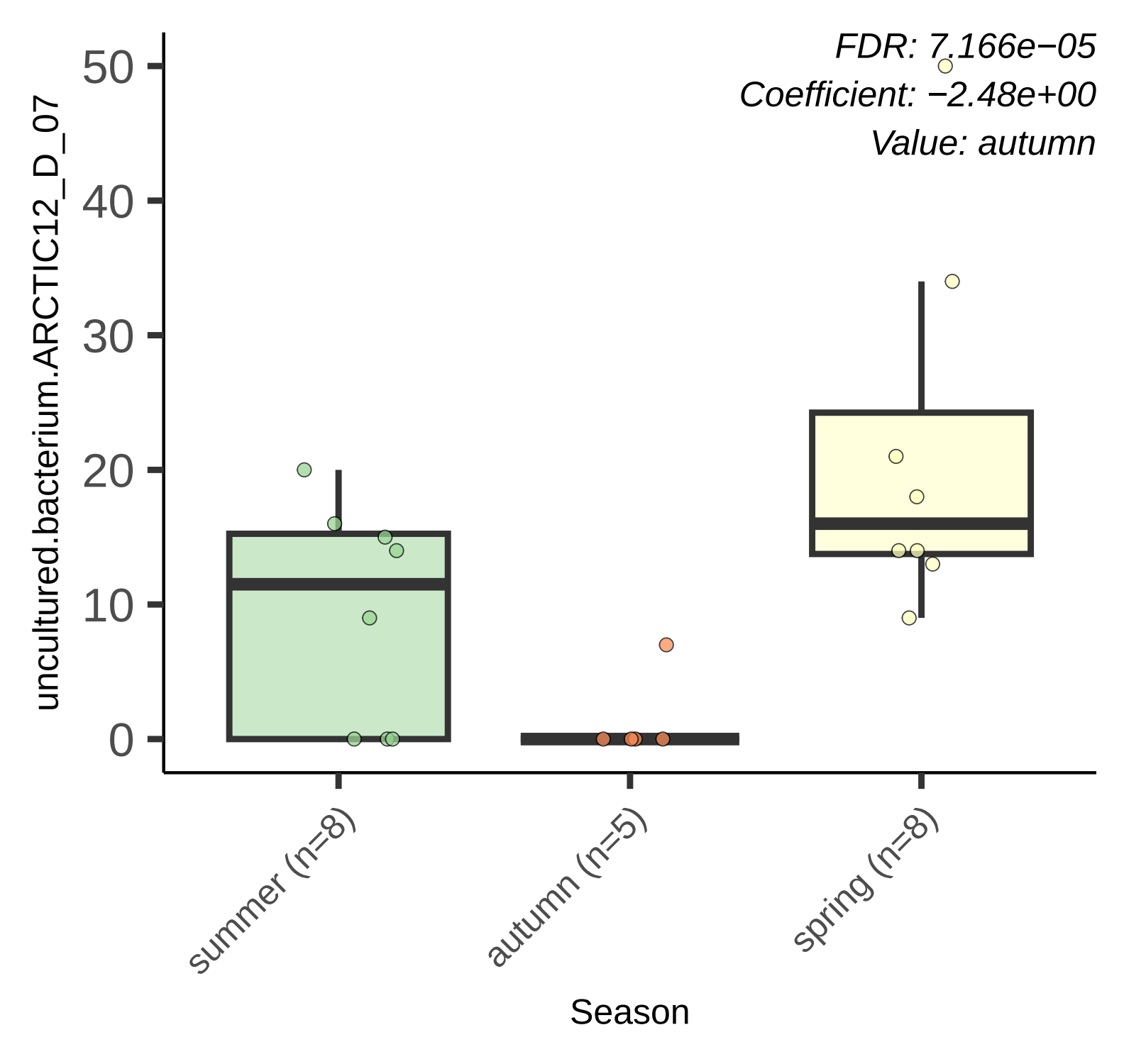

FDR: 5.524e−05
Coefficient: −3.53e+00
Value: autumn
Tenacibaculum.todarodis
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

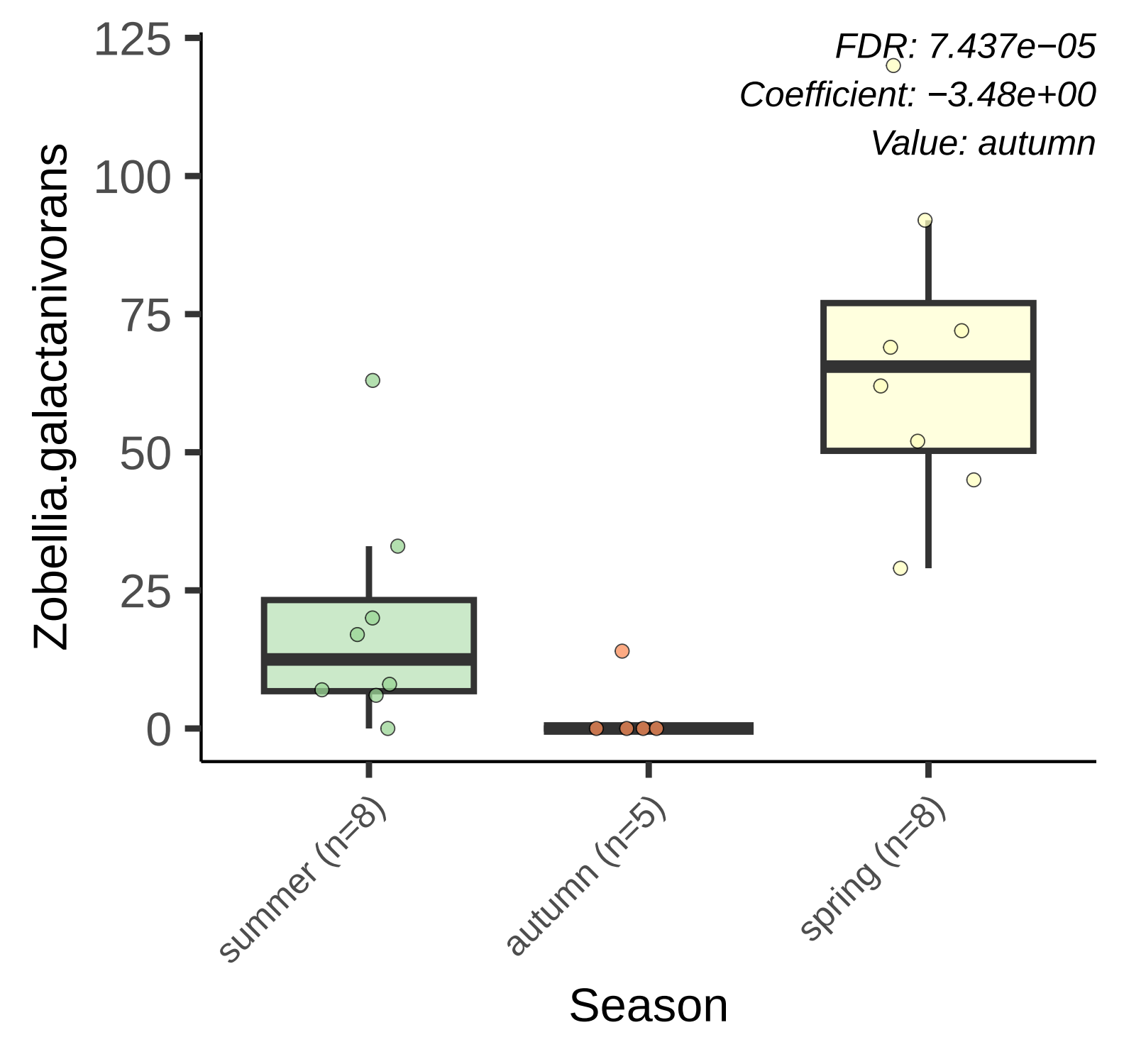

FDR: 6.273e−05
Coefficient: −2.50e+00
Value: autumn
Nonlabens.marinus
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

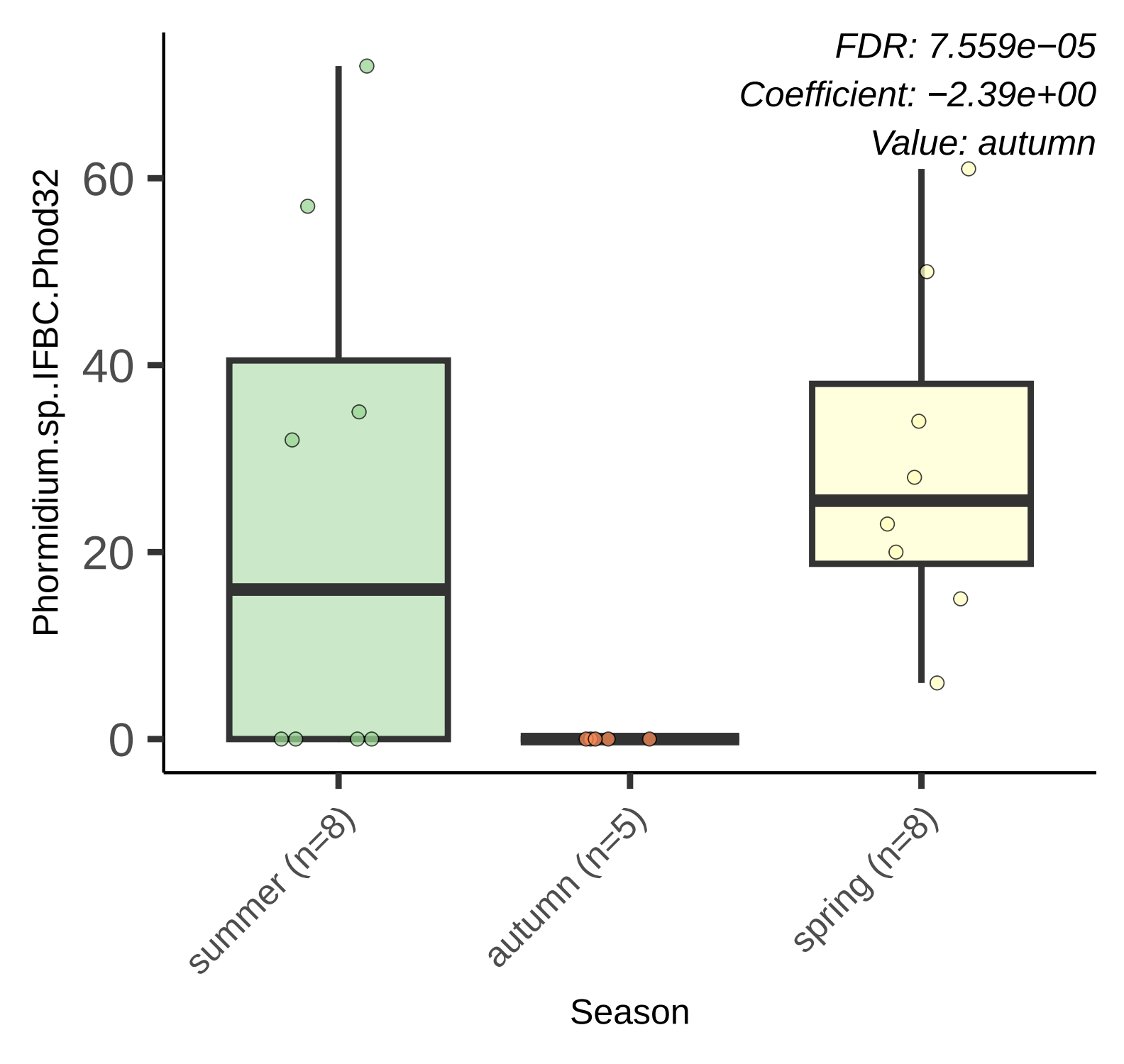

FDR: 6.473e−05
Coefficient: −2.95e+00
Value: autumn
Halocynthiibacter.arcticus
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

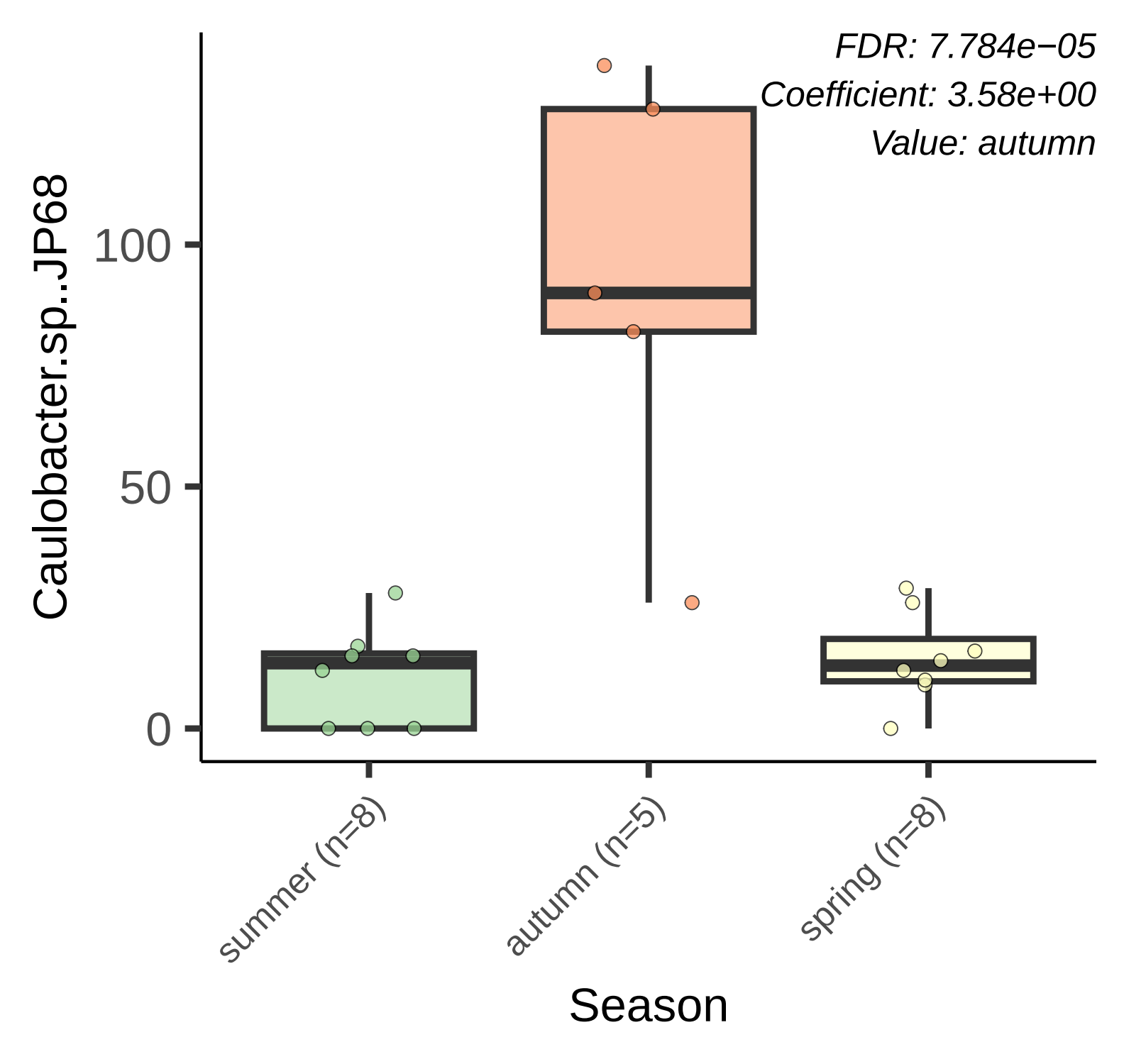

FDR: 6.836e−05
Coefficient: −1.94e+00
Value: autumn
uncultured.marine.bacterium
400
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

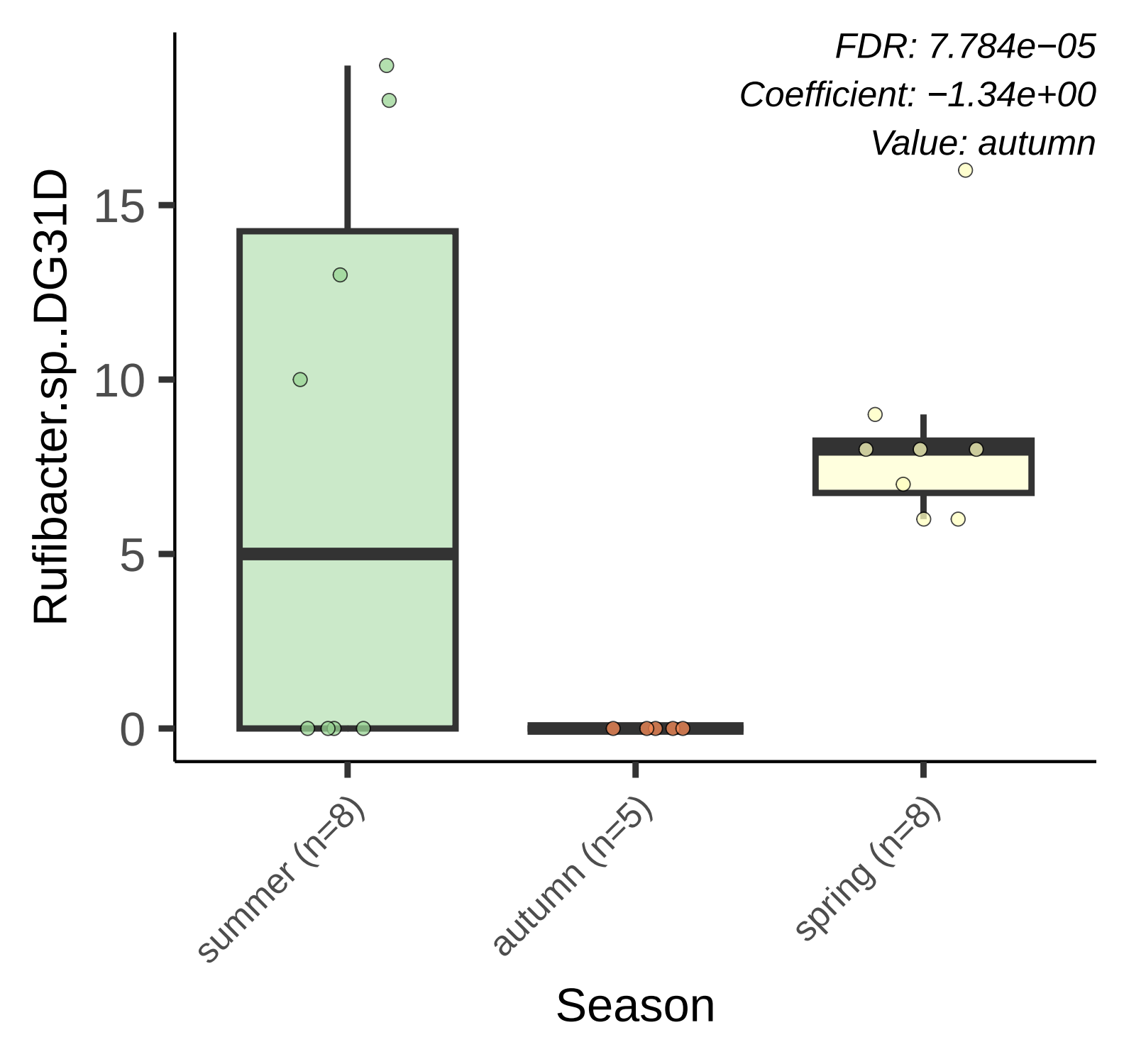

FDR: 7.135e−05
Coefficient: −2.51e+00
Value: autumn
Epibacterium.mobile
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

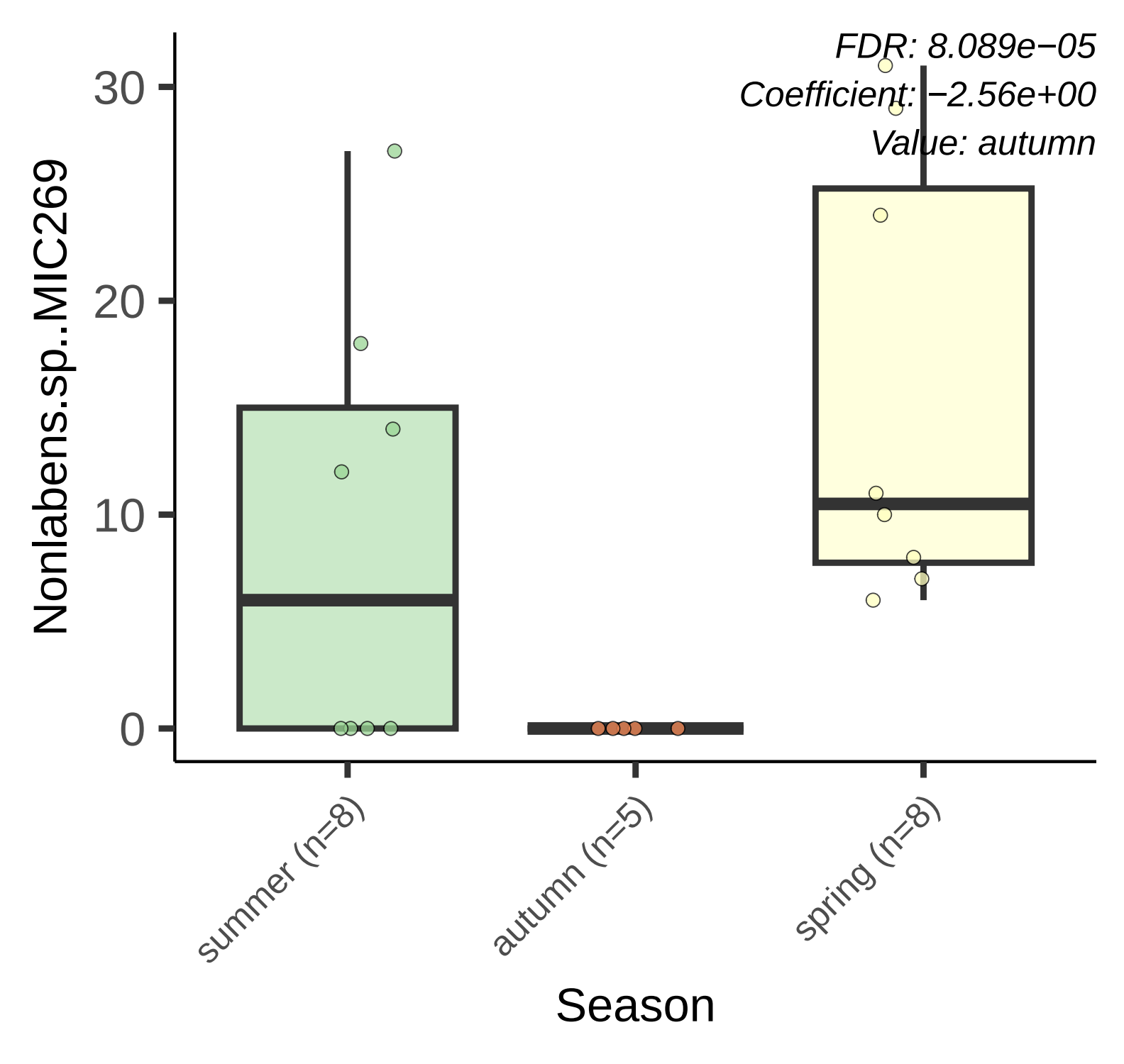

FDR: 7.166e−05
Coefficient: −2.48e+00
Value: autumn
uncultured.bacterium.ARCTIC12_D_07
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

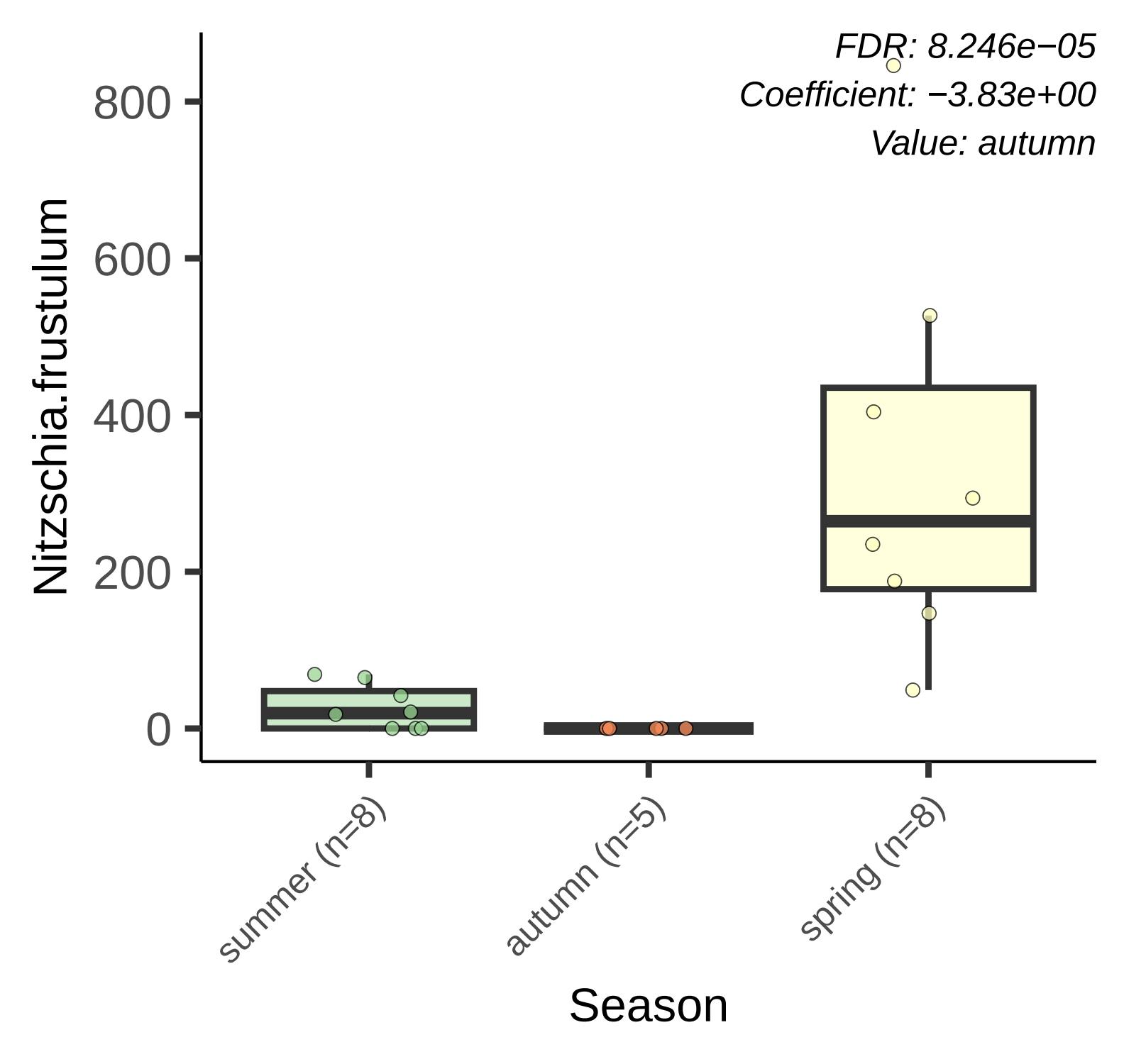

FDR: 7.437e−05
Coefficient: −3.48e+00
Value: autumn
Zobellia.galactanivorans
125
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

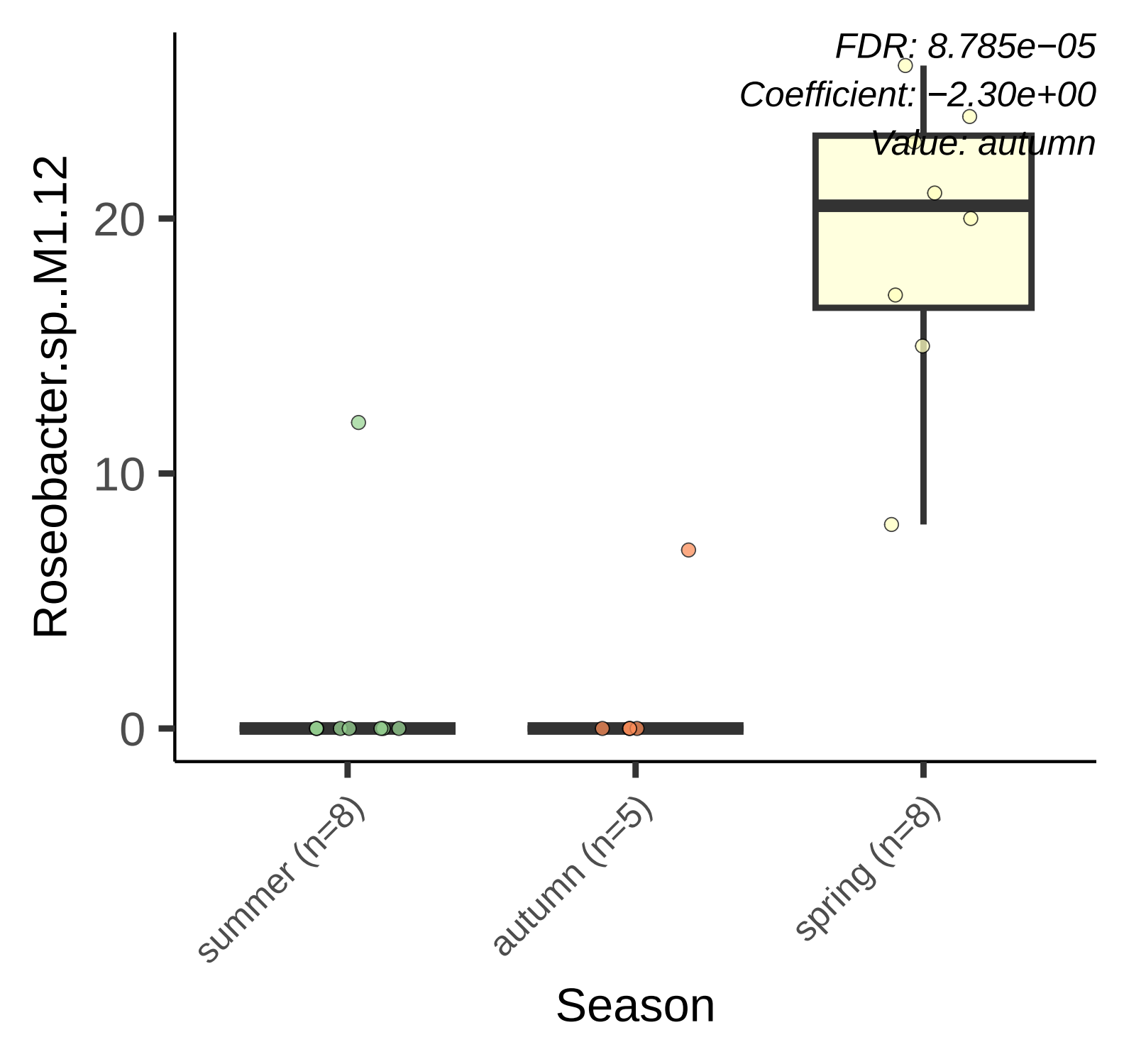

FDR: 7.559e−05
Coefficient: −2.39e+00
Value: autumn
Phormidium.sp..IFBC.Phod32
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

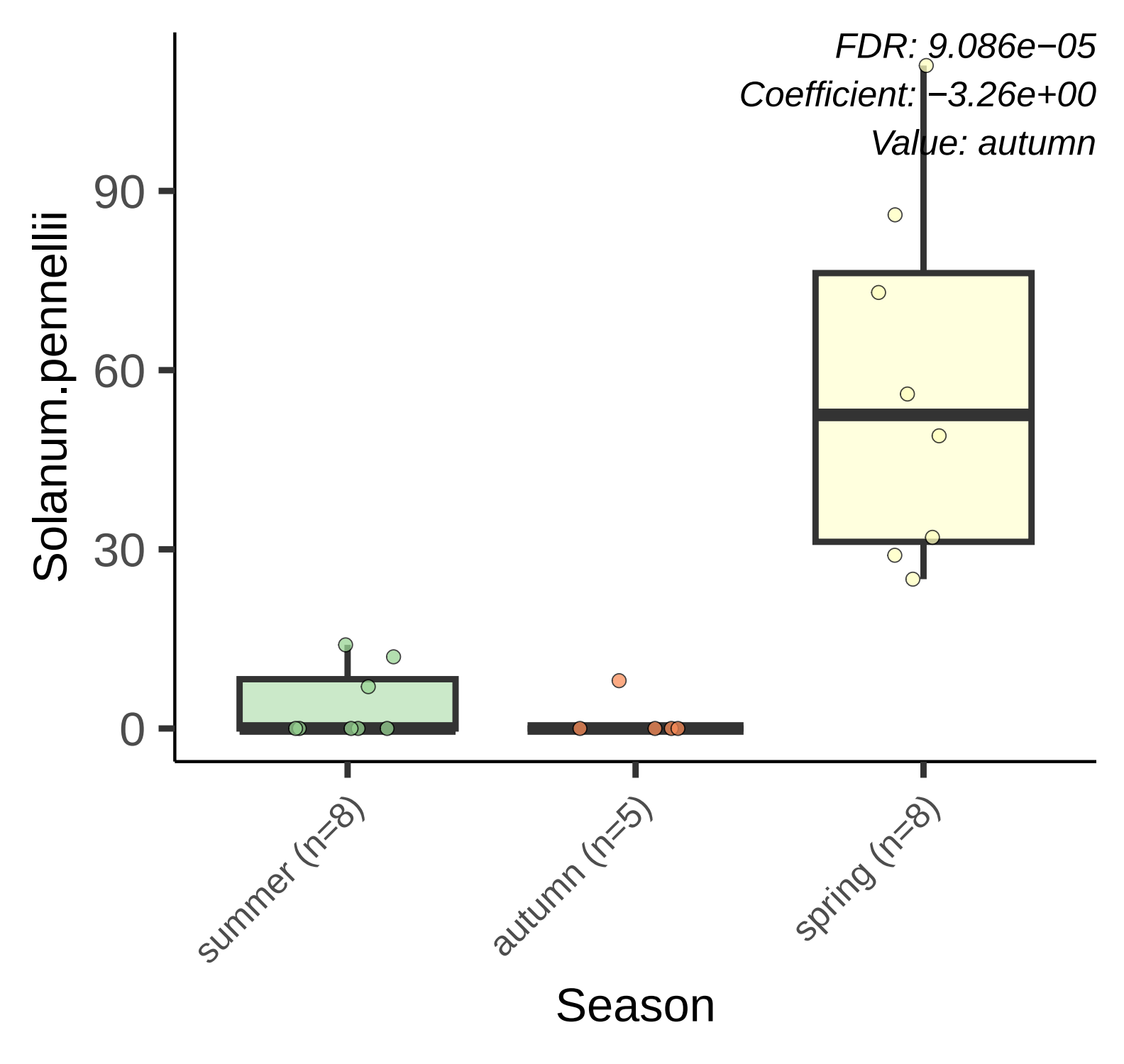

FDR: 7.784e−05
Coefficient: 3.58e+00
Value: autumn
Caulobacter.sp..JP68
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

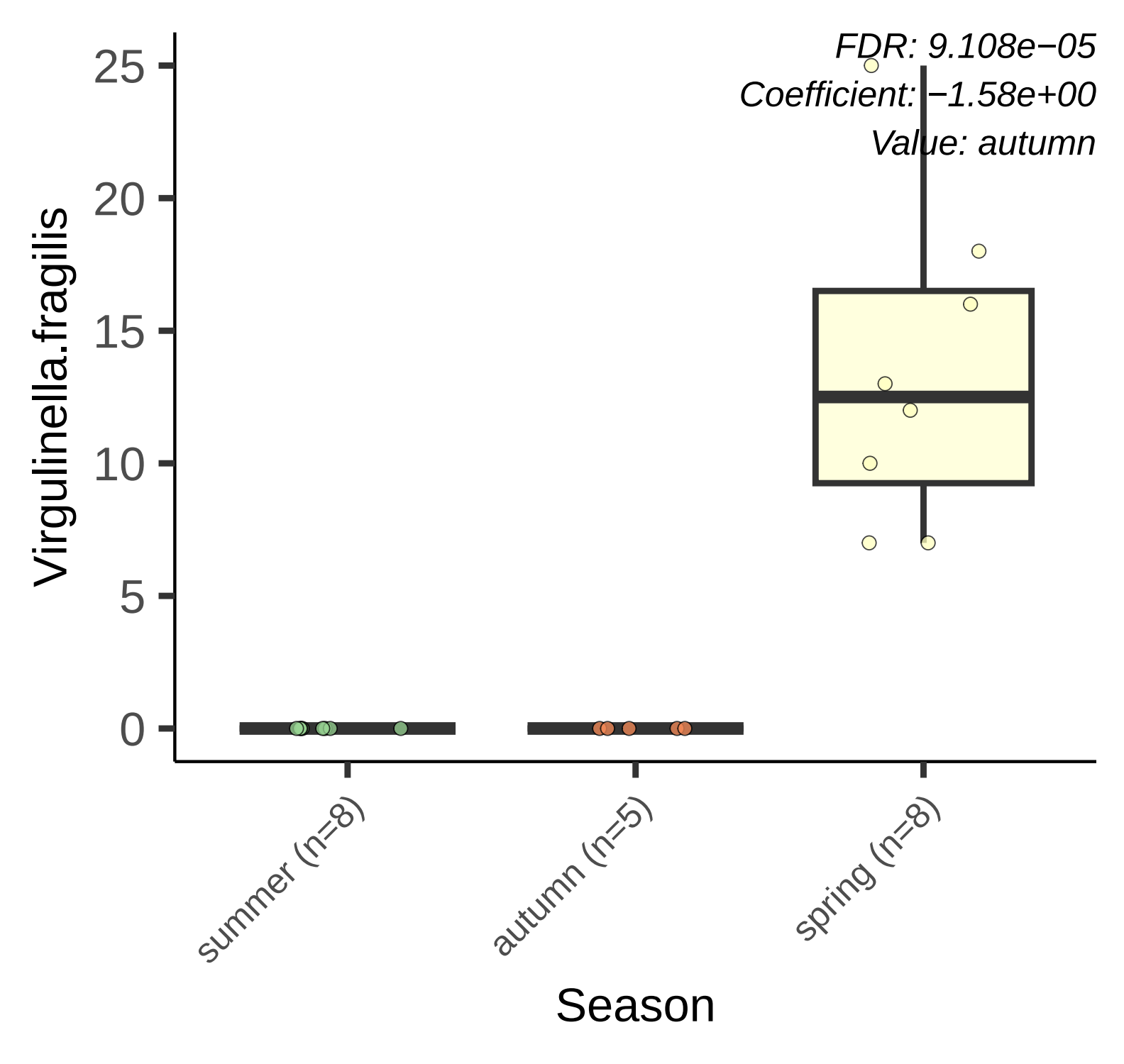

FDR: 7.784e−05
Coefficient: −1.34e+00
Value: autumn
Rufibacter.sp..DG31D
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

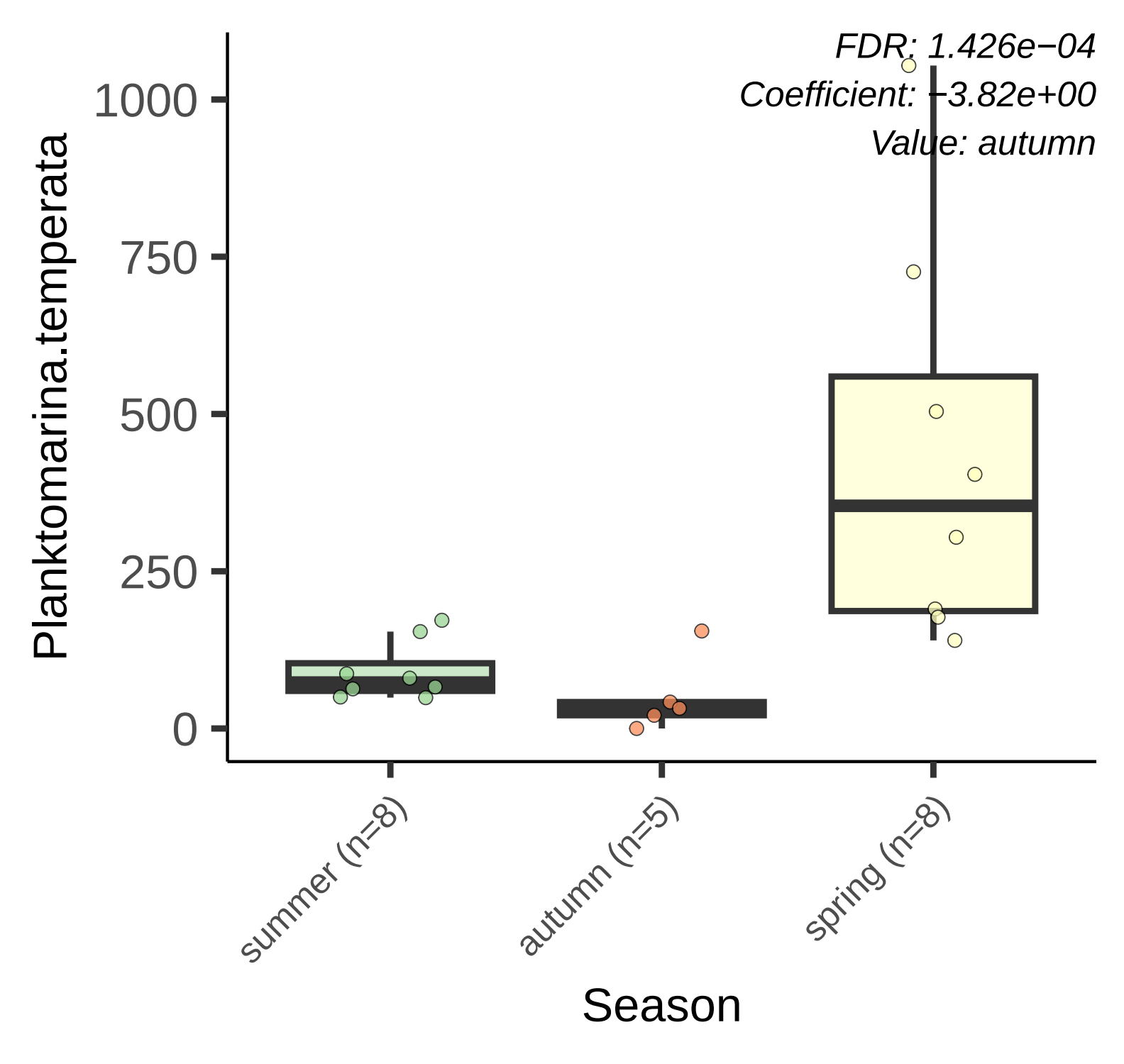

FDR: 8.089e−05
Coefficient: −2.56e+00
Value: autumn
Nonlabens.sp..MIC269
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

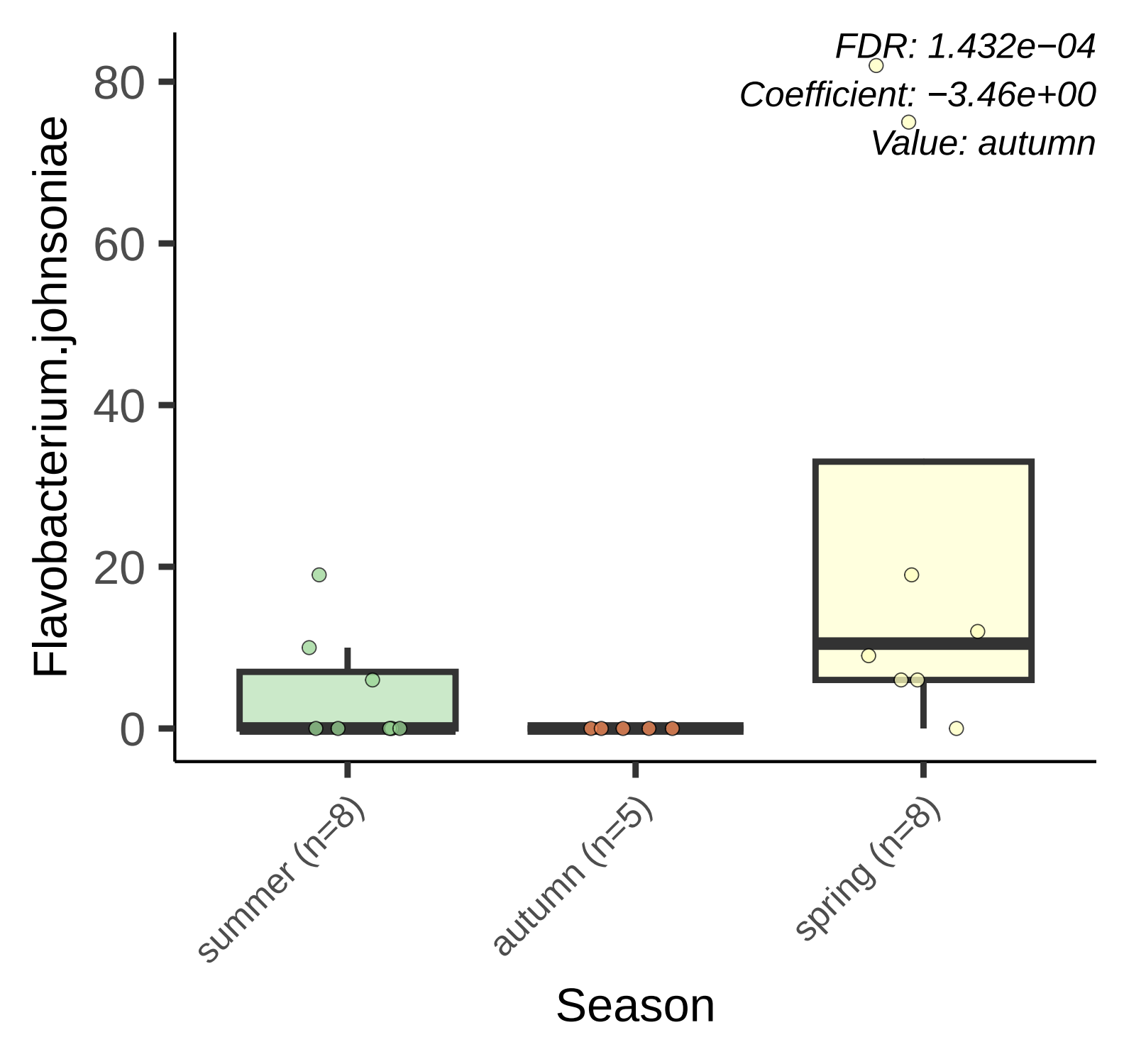

FDR: 8.246e−05
Coefficient: −3.83e+00
Value: autumn
800
600
400
200
0
Nitzschia.frustulum
summer (n=8)
autumn (n=5)
spring (n=8)
Season

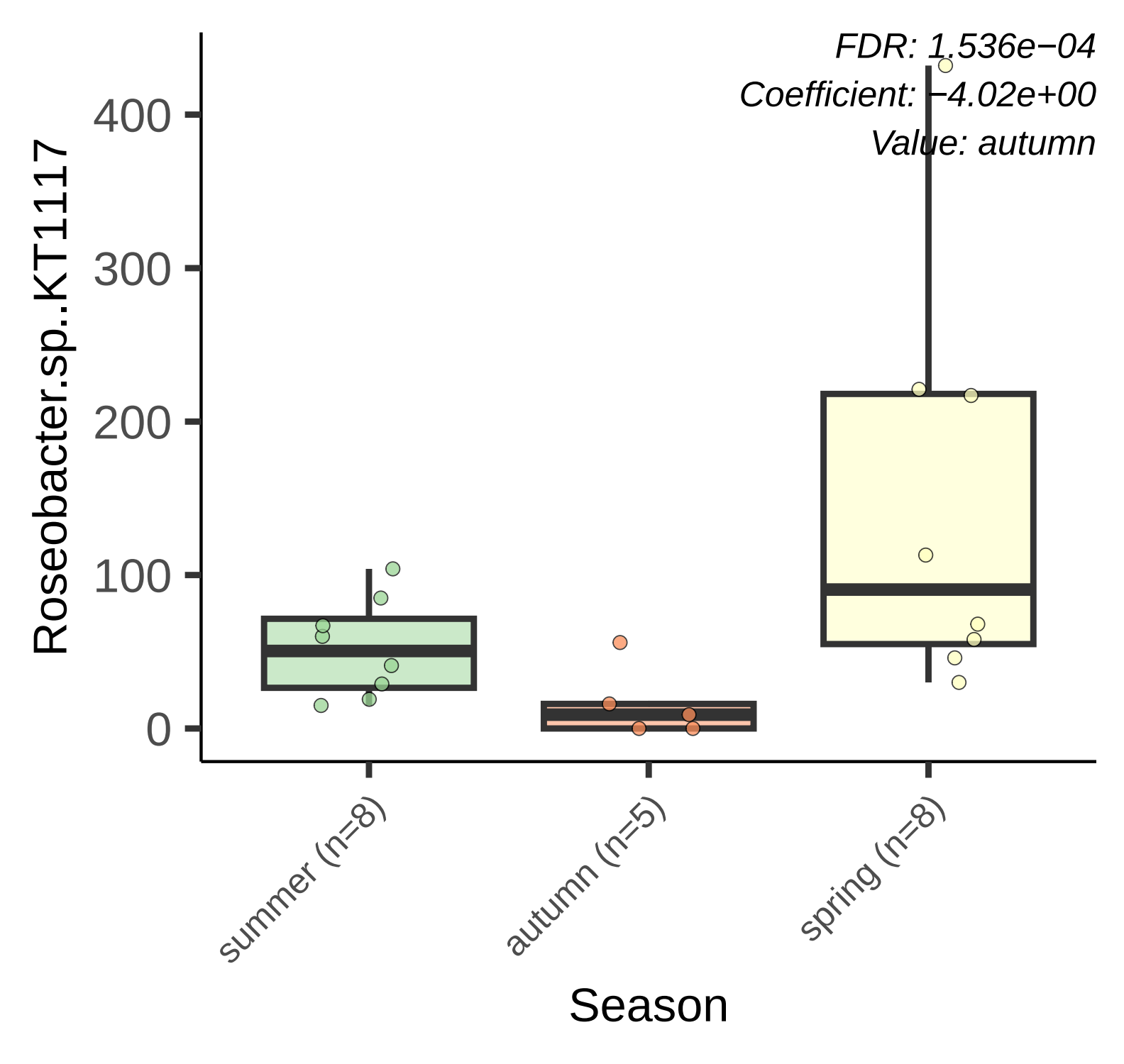

FDR: 8.785e−05
Coefficient: −2.30e+00
Value: autumn
Roseobacter.sp..M1.12
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

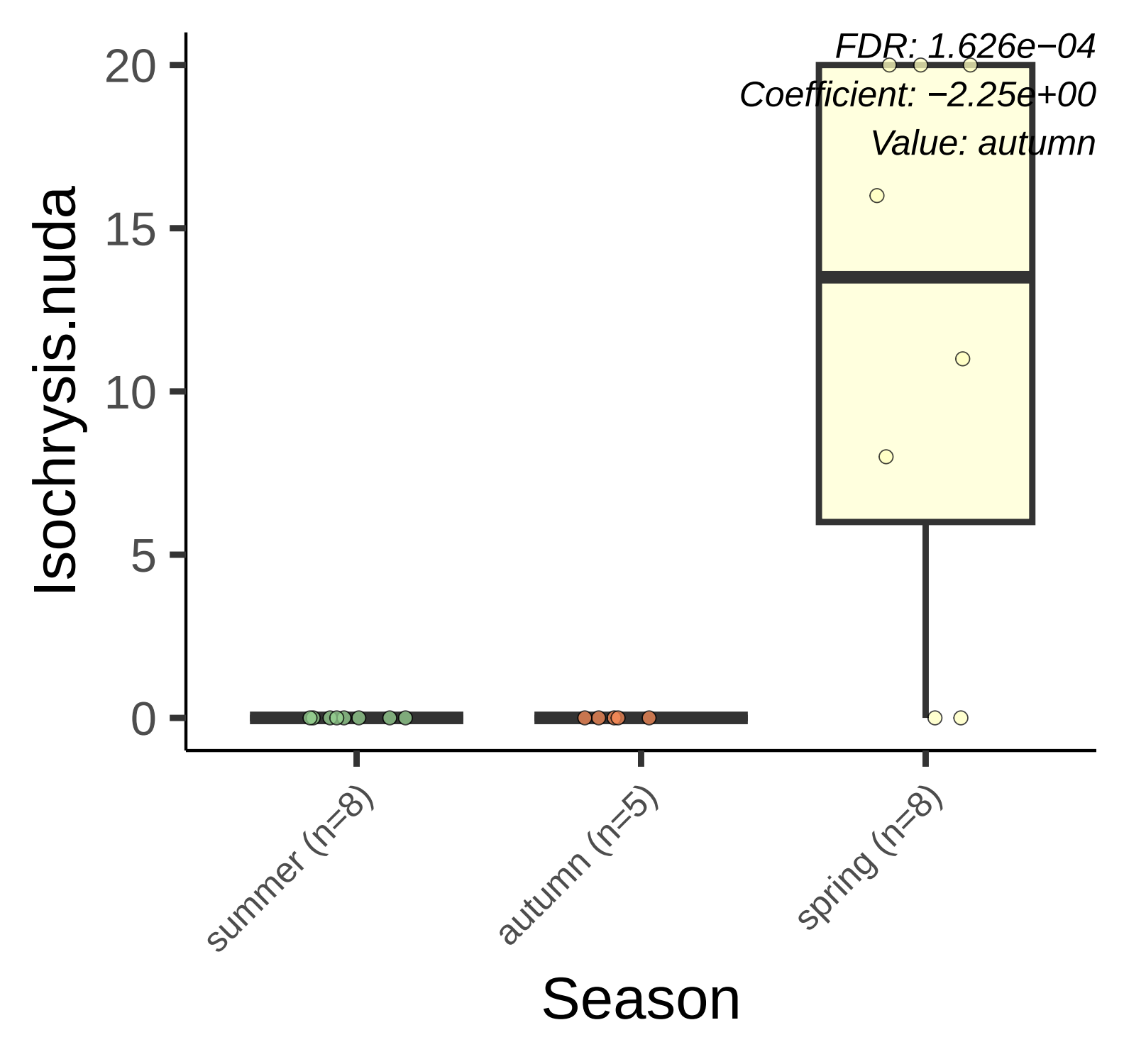

FDR: 9.086e−05
Coefficient: −3.26e+00
Value: autumn
Solanum.pennellii
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

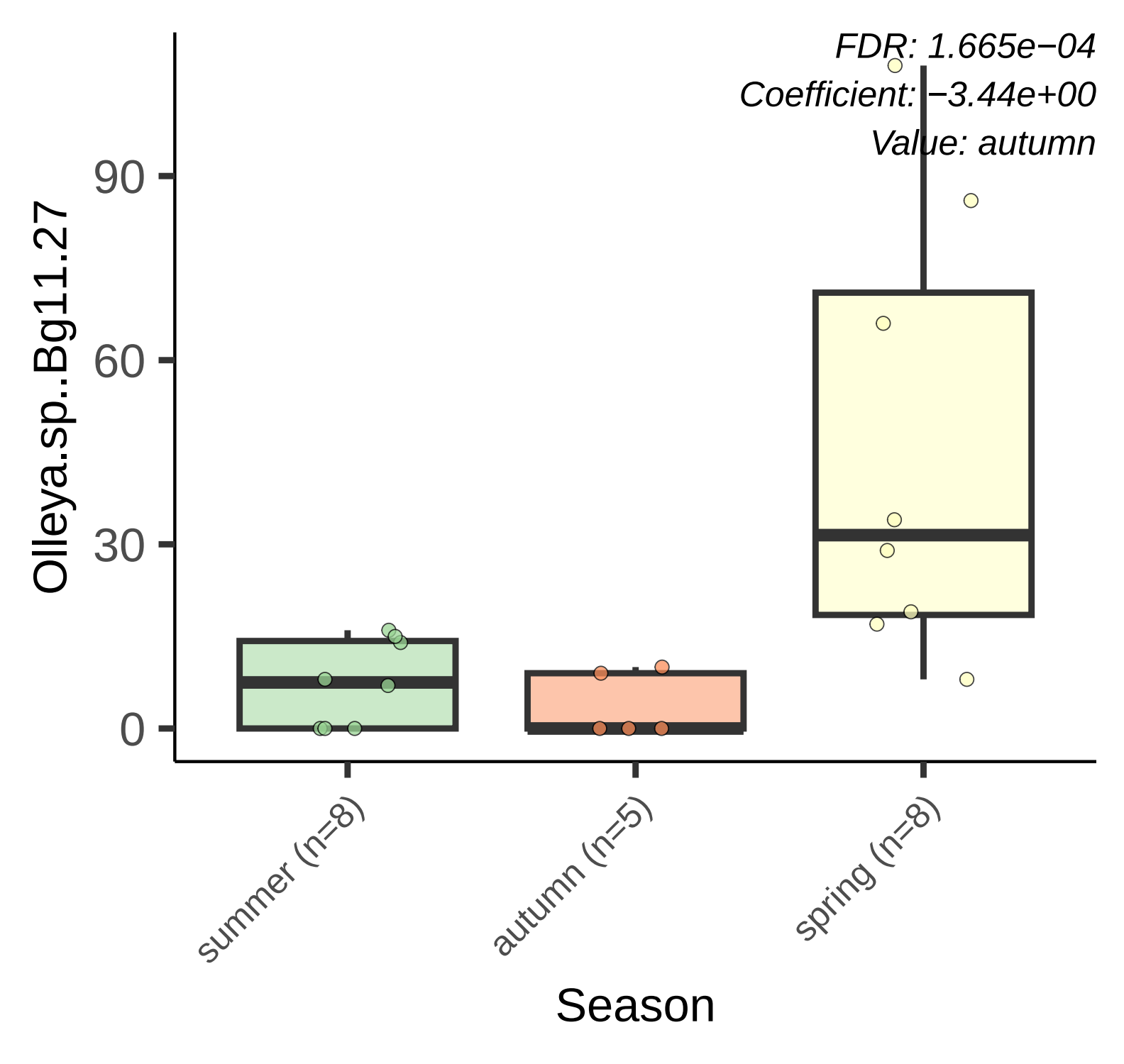

FDR: 9.108e−05
Coefficient: −1.58e+00
Value: autumn
Virgulinella.fragilis
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

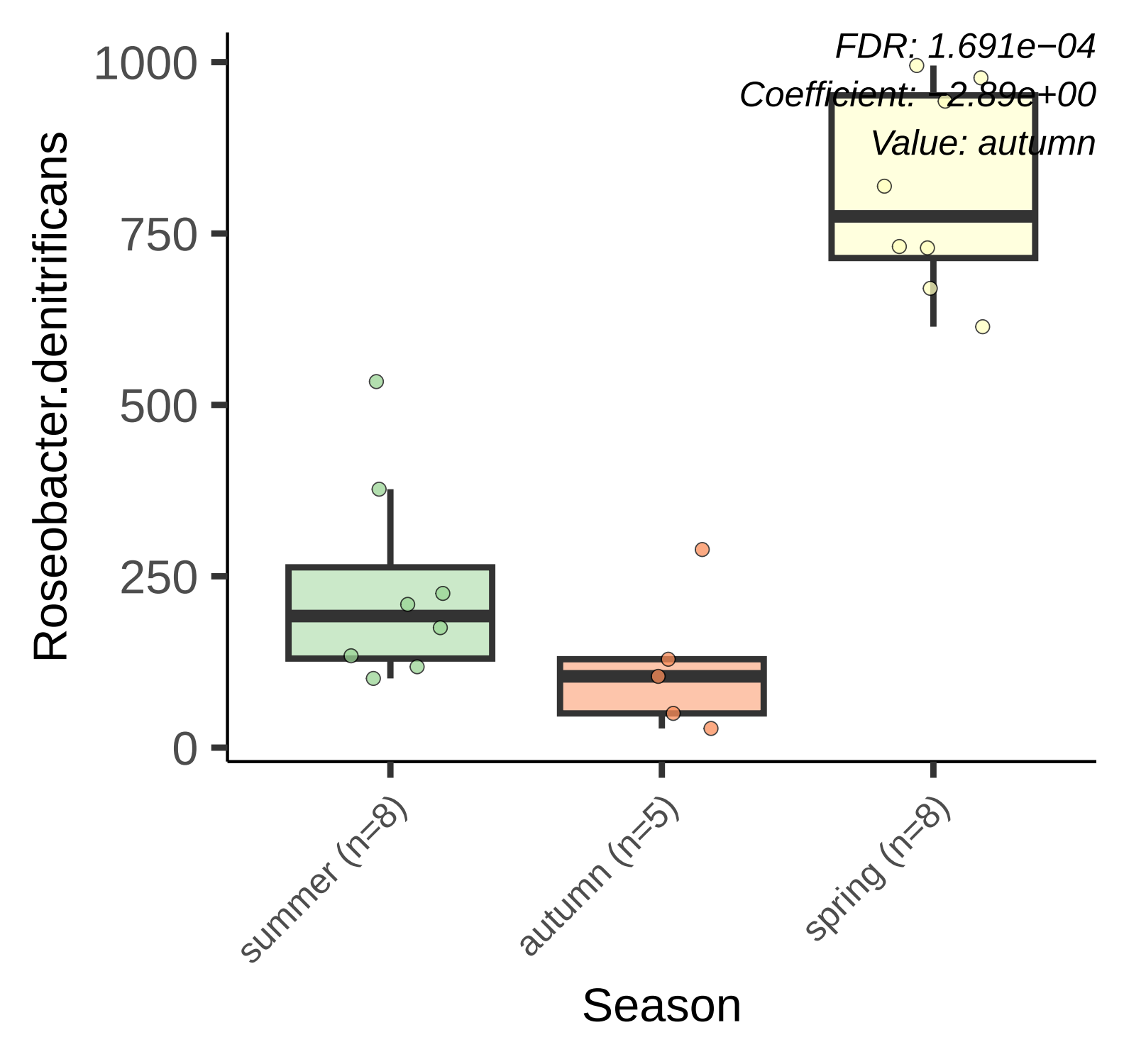

FDR: 1.426e−04
Coefficient: −3.82e+00
Value: autumn
Planktomarina.temperata
1000
750
500
250
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

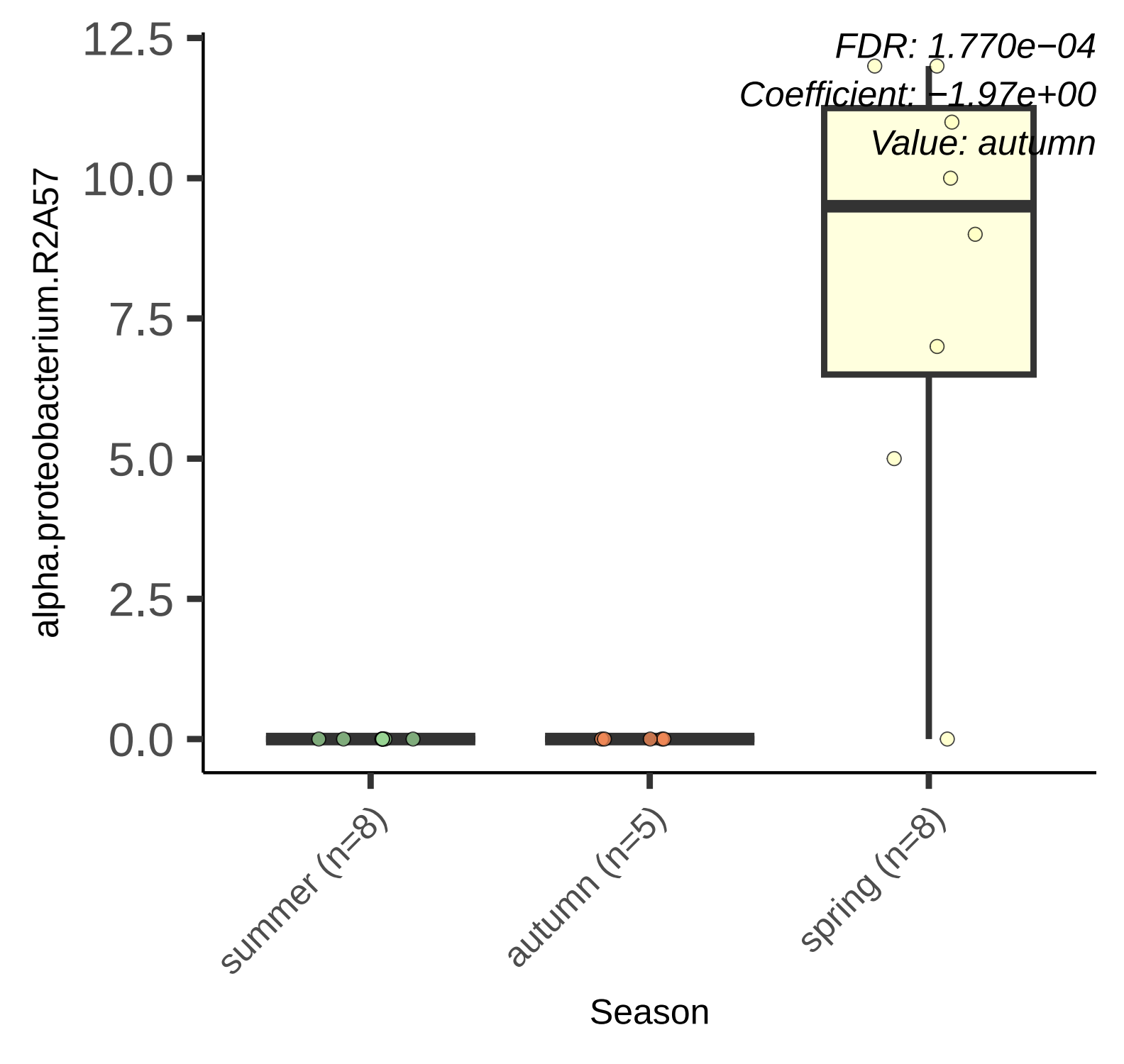

FDR: 1.432e−04
Coefficient: −3.46e+00
Value: autumn
Flavobacterium.johnsoniae
80
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

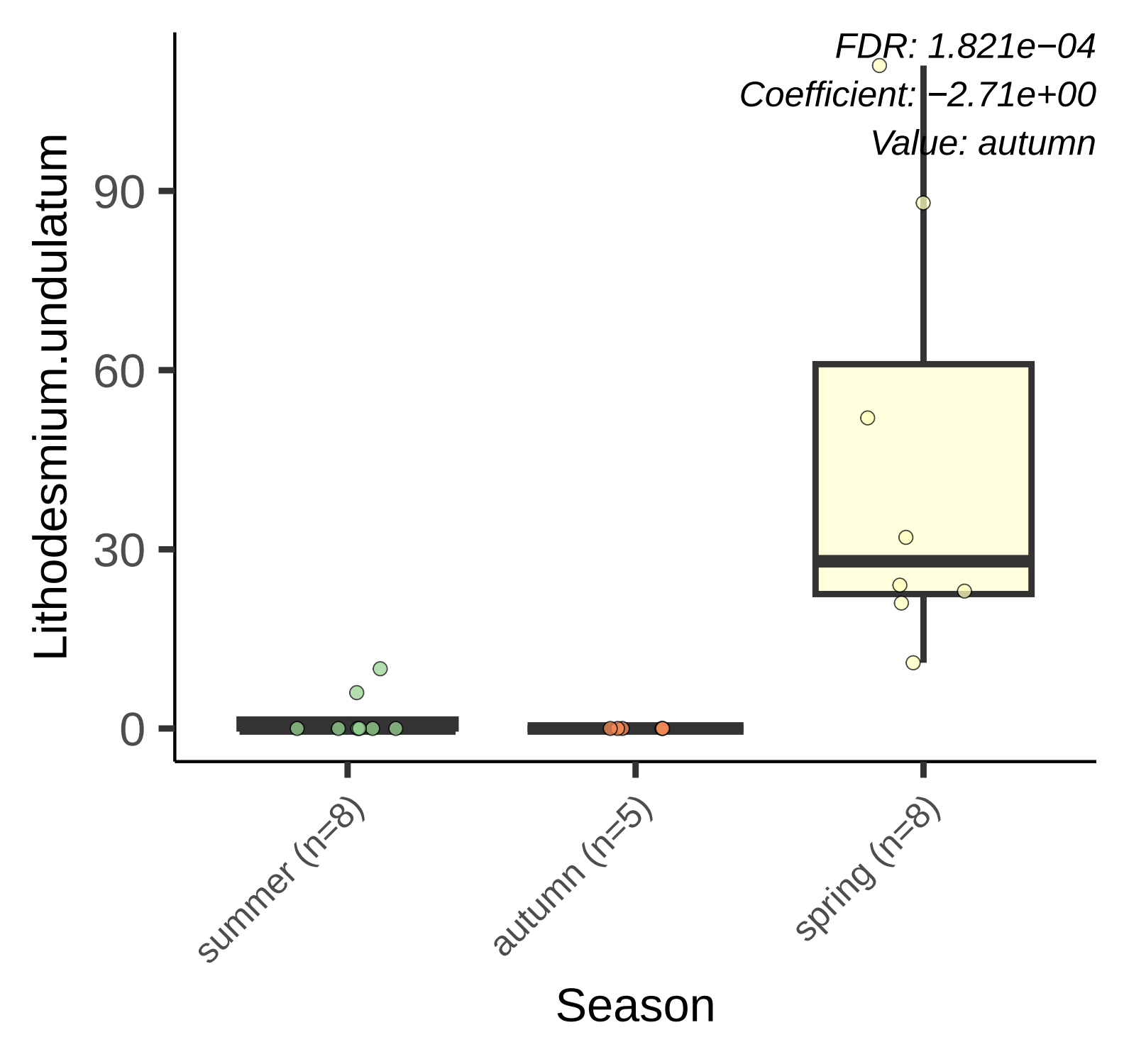

FDR: 1.536e−04
Coefficient: −4.02e+00
Value: autumn
Roseobacter.sp..KT1117
400
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

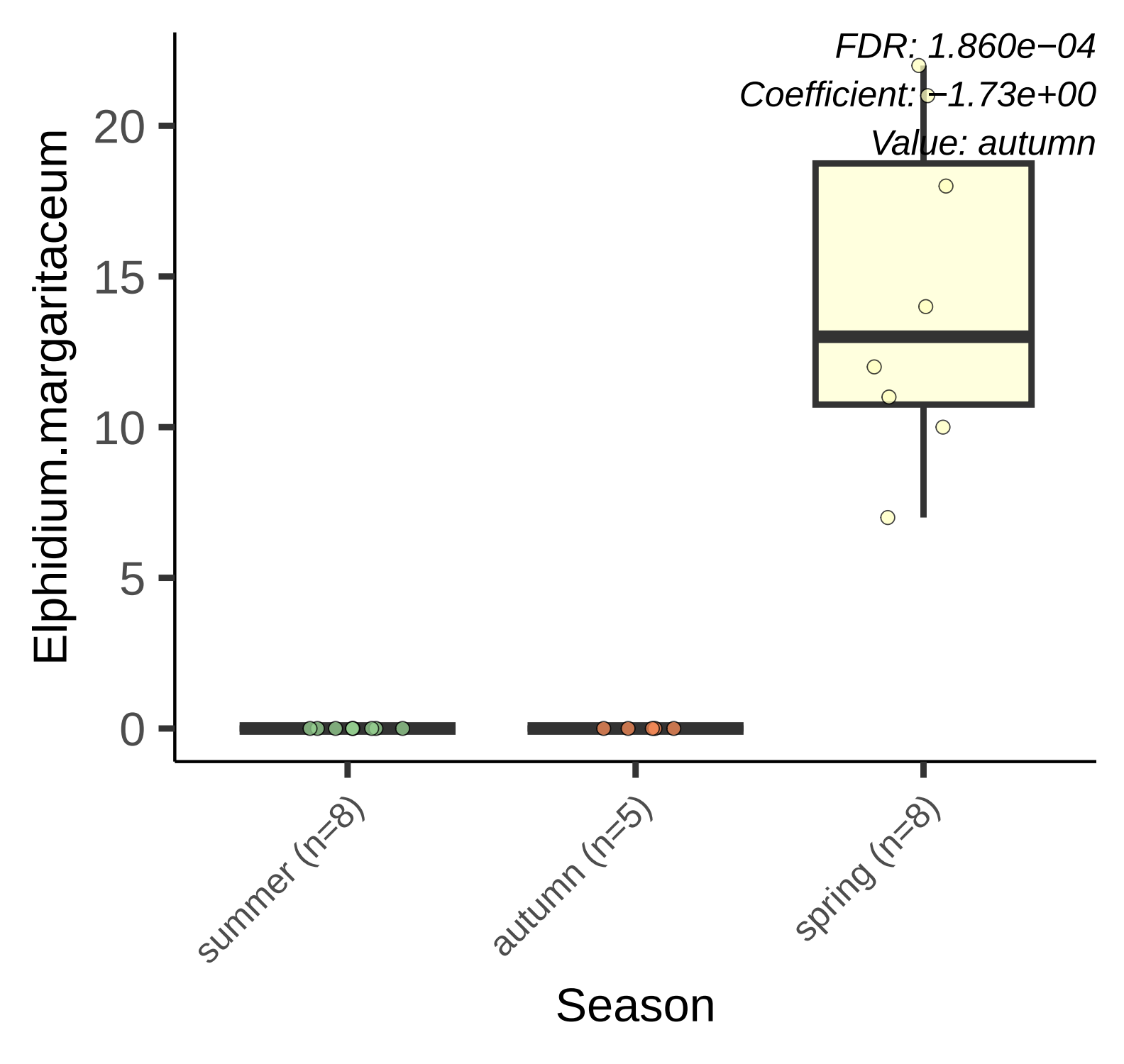

FDR: 1.626e−04
Coefficient: −2.25e+00
Value: autumn
Isochrysis.nuda
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

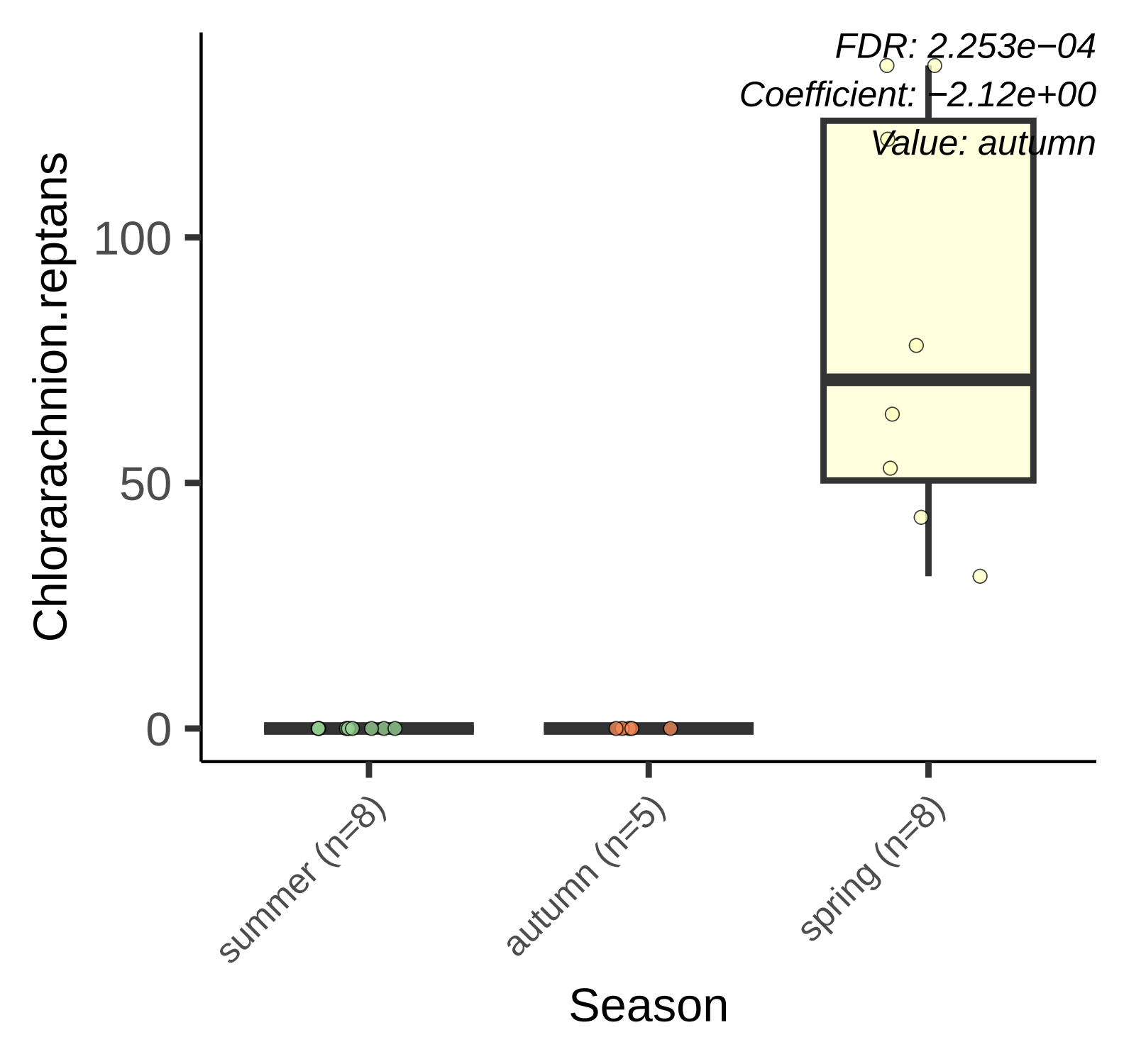

FDR: 1.665e−04
Coefficient: −3.44e+00
Value: autumn
Olleya.sp..Bg11.27
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

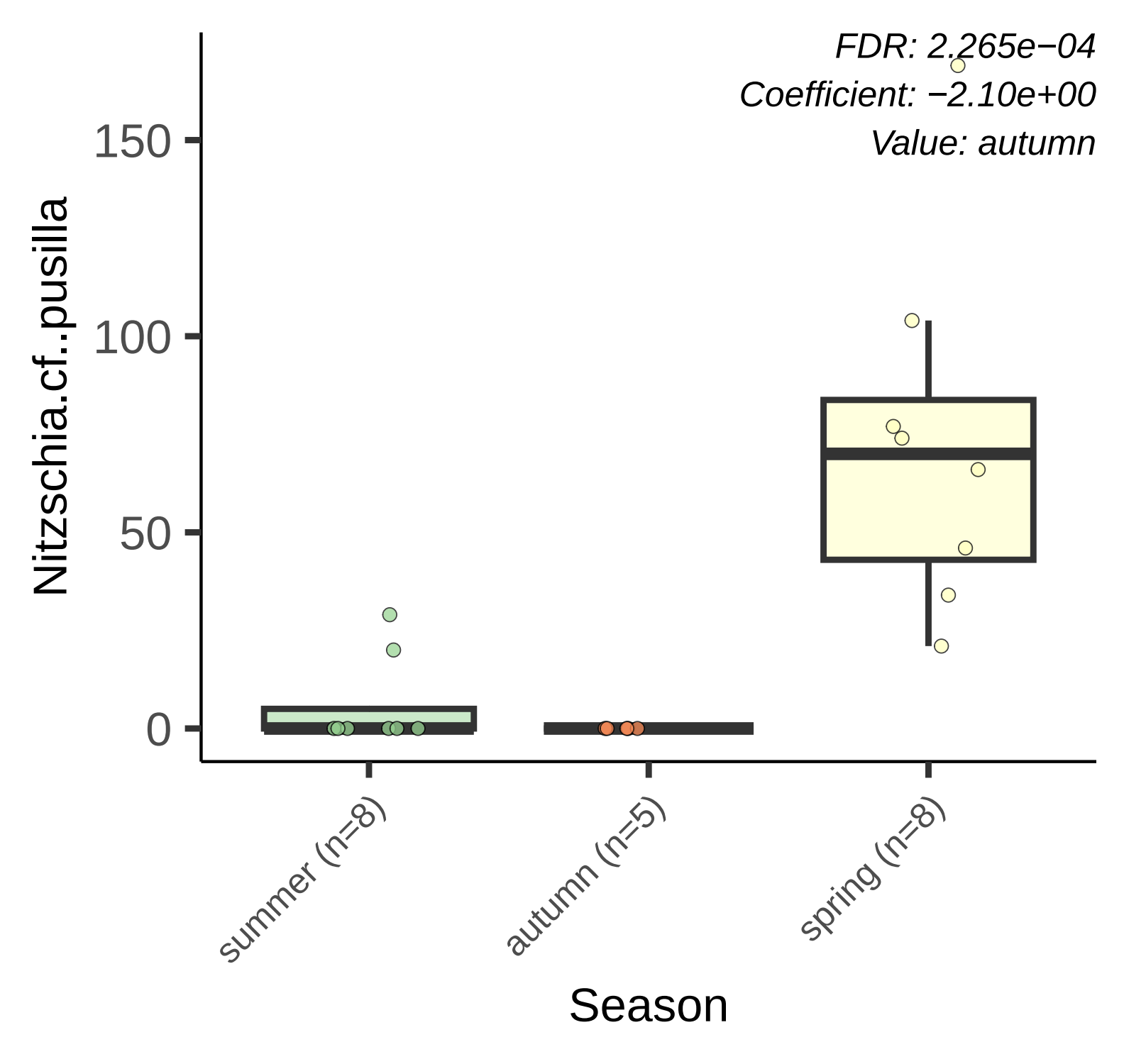

FDR: 1.691e−04
Coefficient: −2.89e+00
Value: autumn
1000
750
500
250
0
Roseobacter.denitrificans
summer (n=8)
autumn (n=5)
spring (n=8)
Season

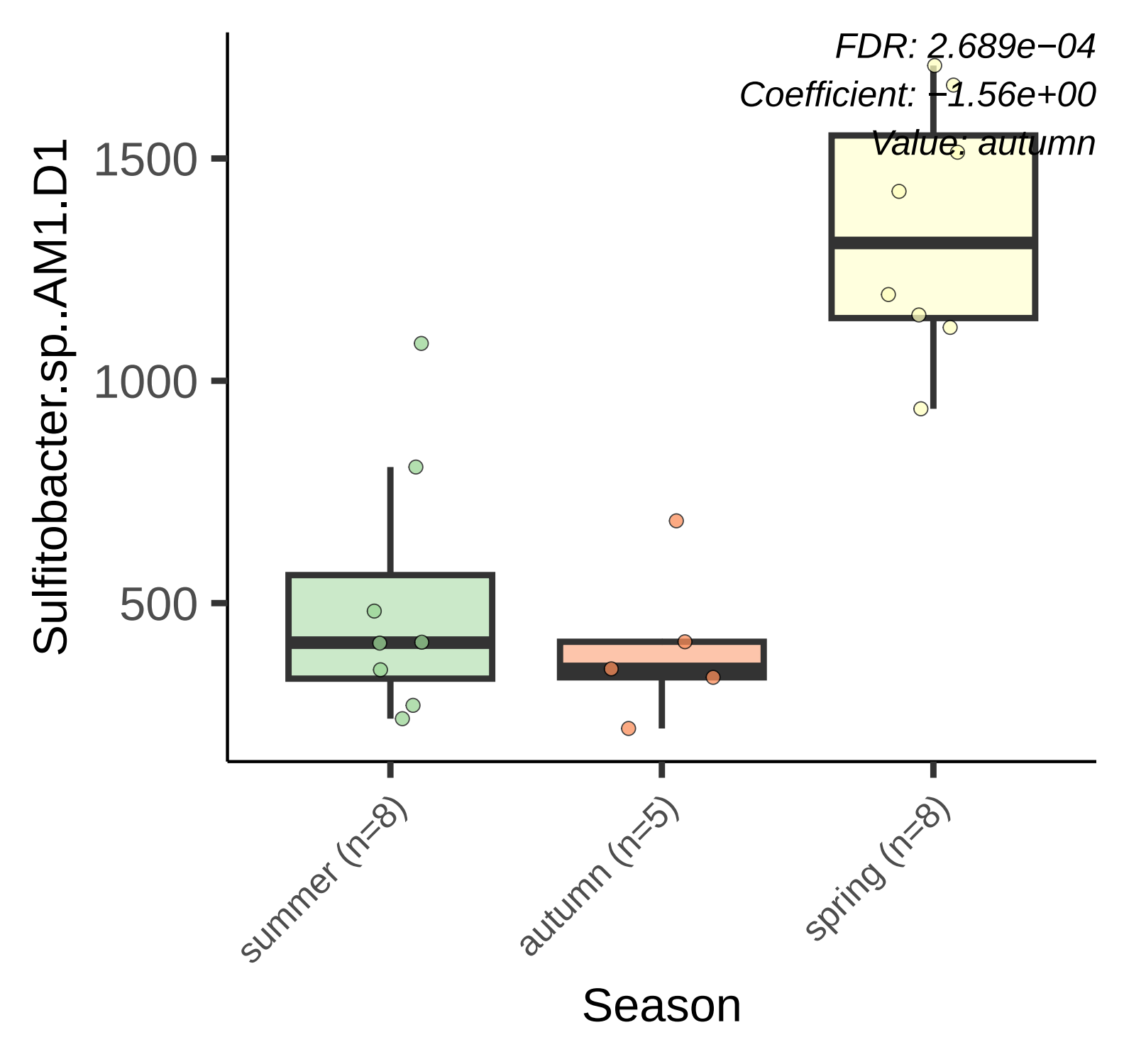

FDR: 1.770e−04
Coefficient: −1.97e+00
Value: autumn
alpha.proteobacterium.R2A57
12.5
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

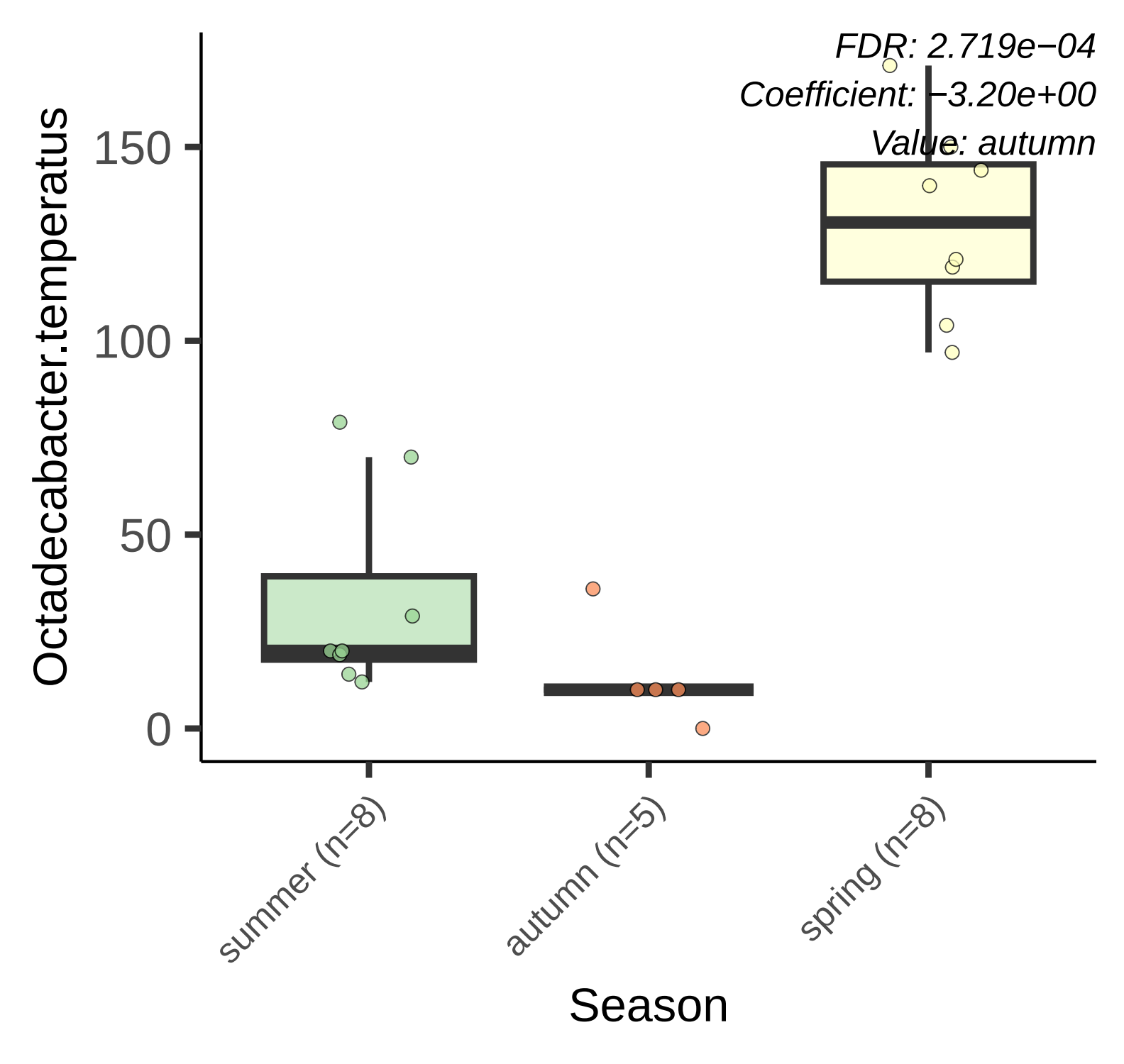

FDR: 1.821e−04
Coefficient: −2.71e+00
Value: autumn
Lithodesmium.undulatum
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

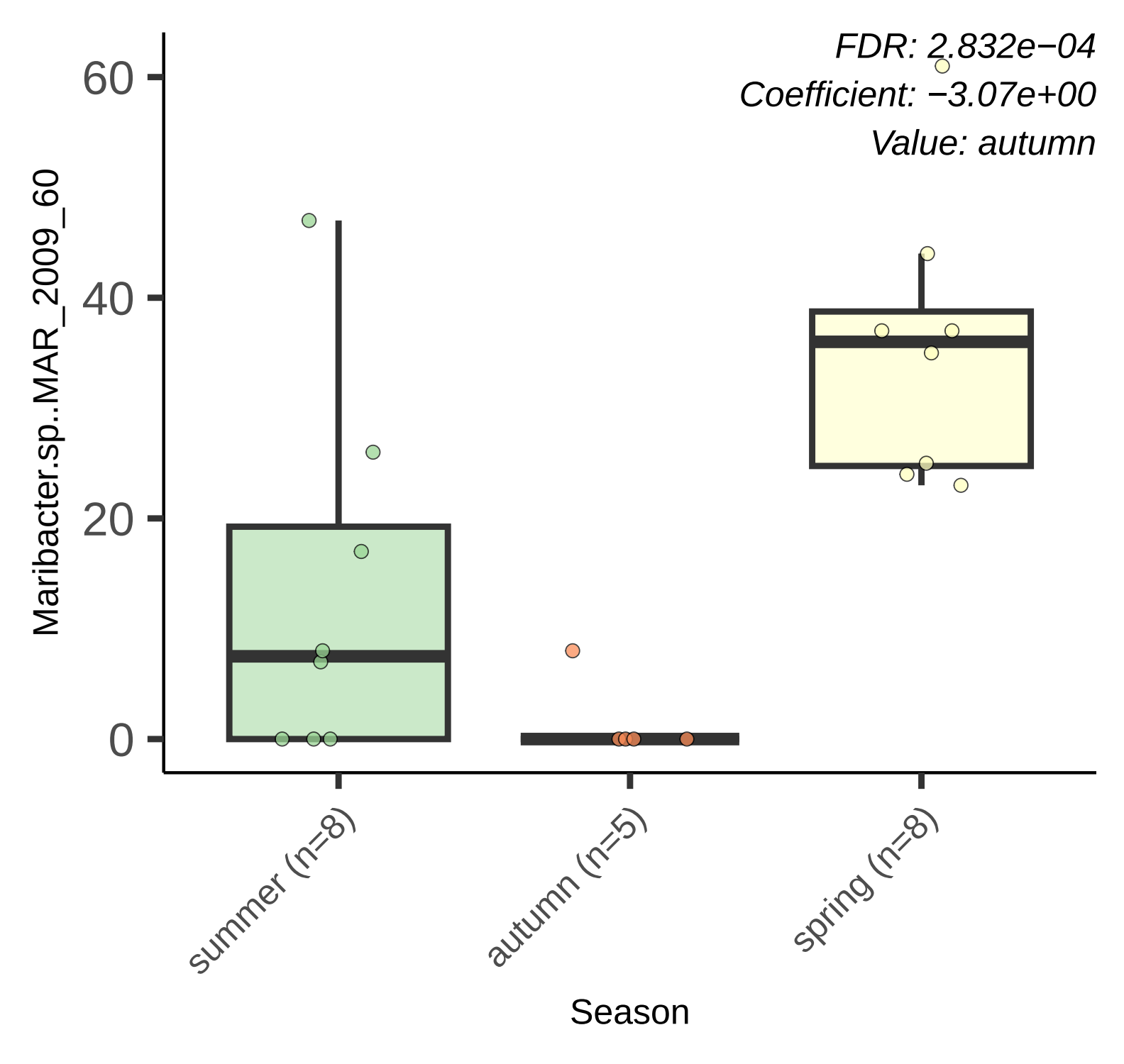

FDR: 1.860e−04
Coefficient: −1.73e+00
Value: autumn
Elphidium.margaritaceum
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

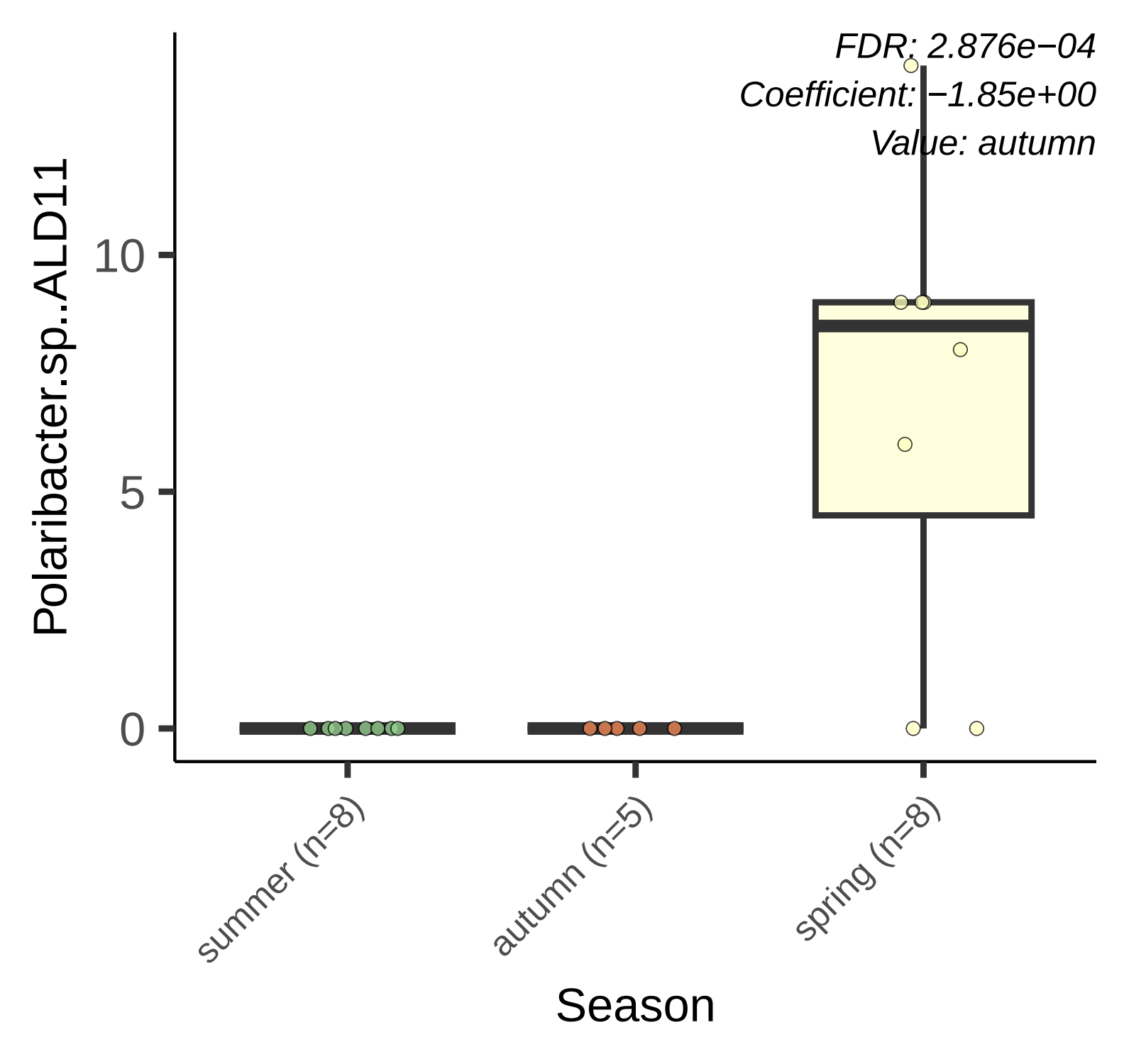

FDR: 2.253e−04
Coefficient: −2.12e+00
Value: autumn
Chlorarachnion.reptans
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

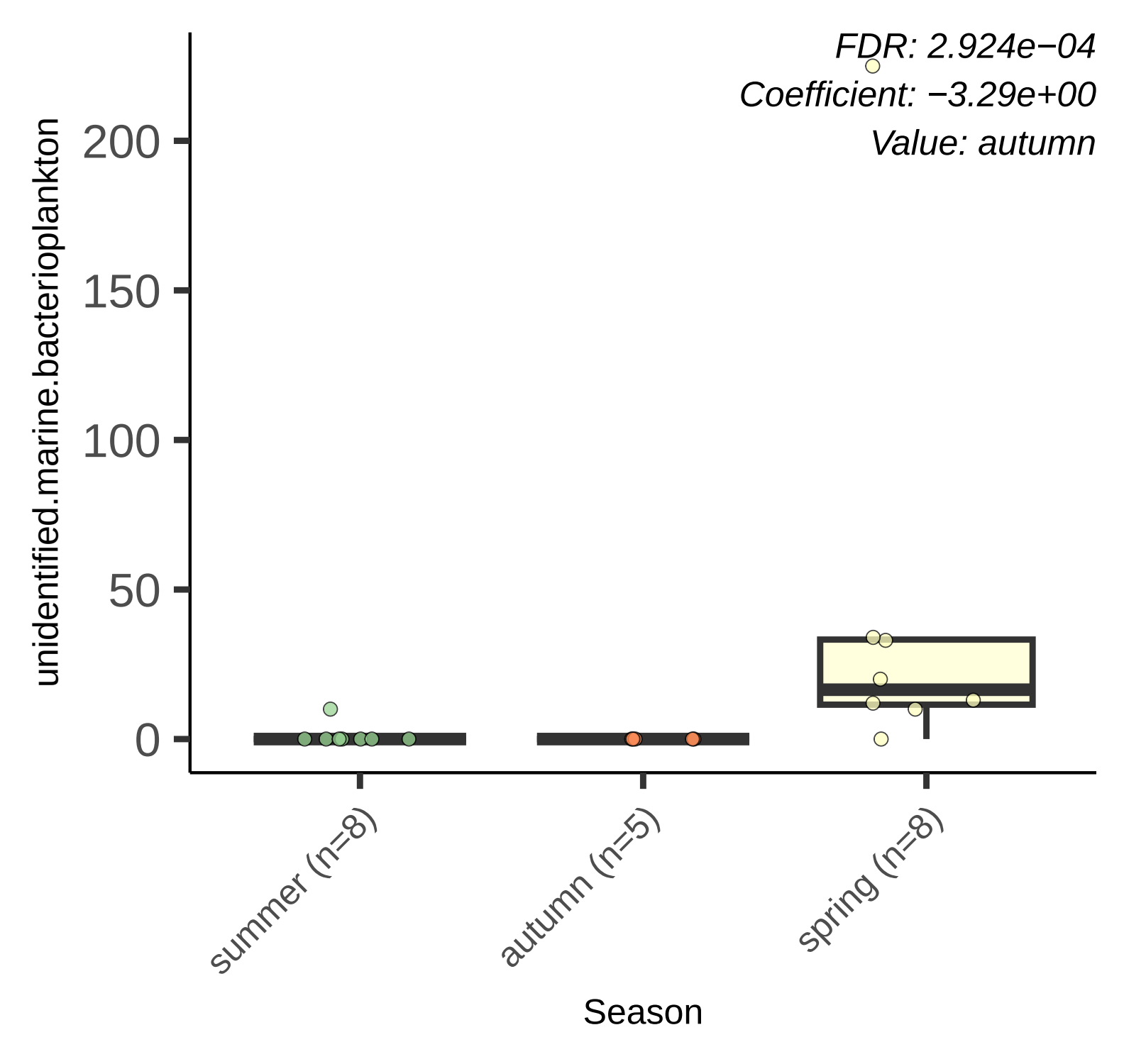

FDR: 2.265e−04
Coefficient: −2.10e+00
Value: autumn
Nitzschia.cf..pusilla
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

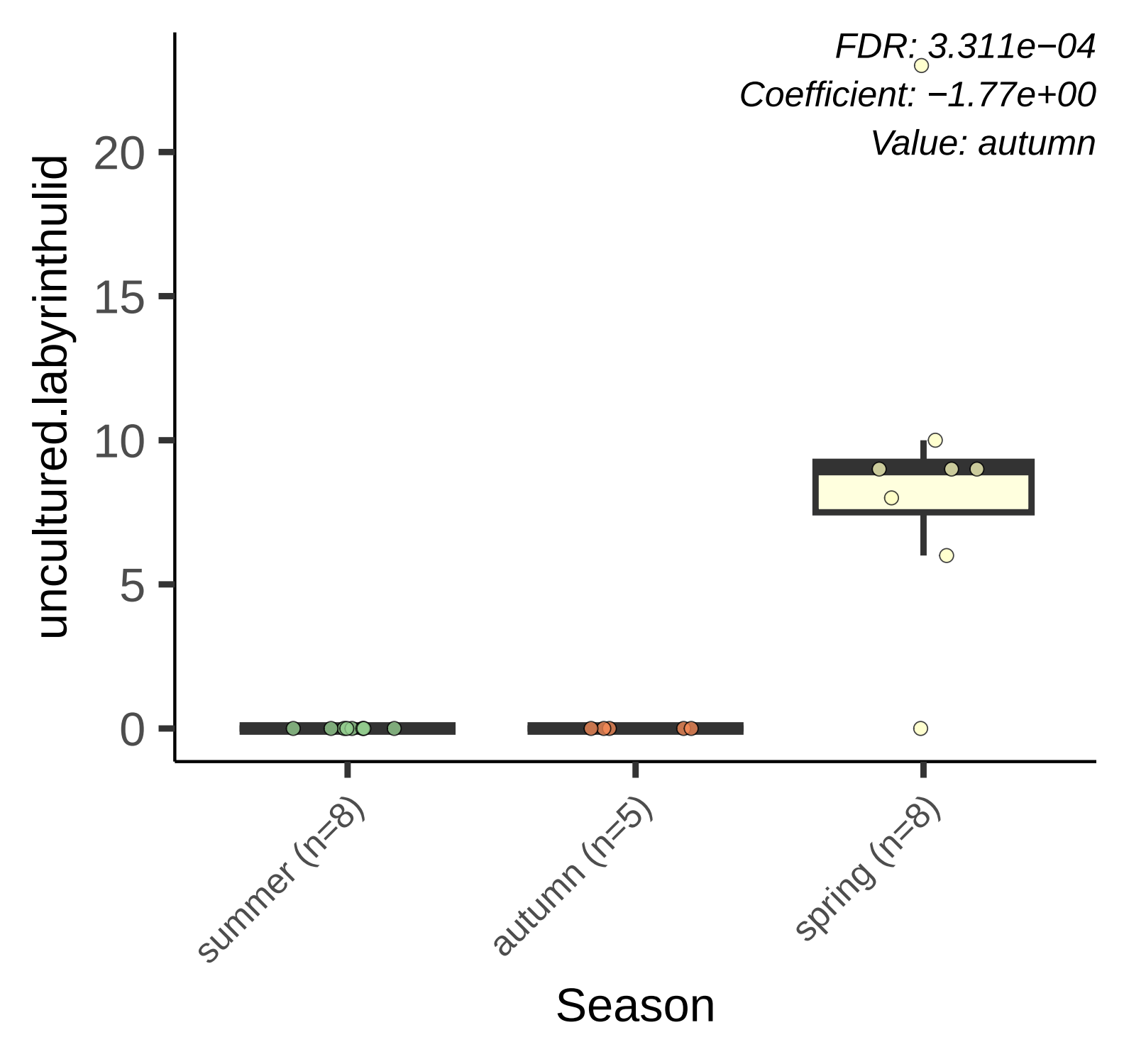

FDR: 2.689e−04
Coefficient: −1.56e+00
Value: autumn
Sulfitobacter.sp..AM1.D1
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

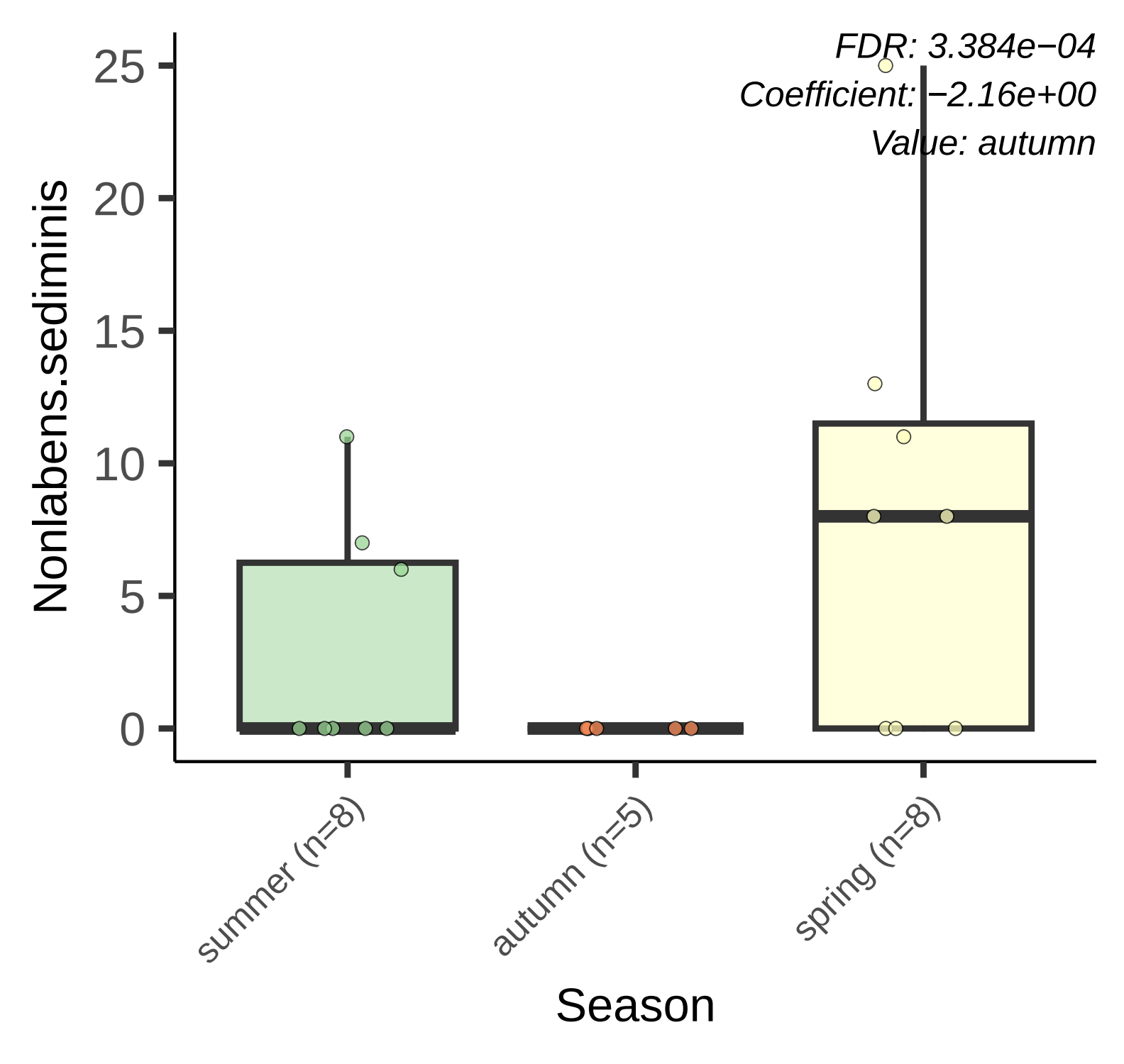

FDR: 2.719e−04
Coefficient: −3.20e+00
Value: autumn
Octadecabacter.temperatus
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

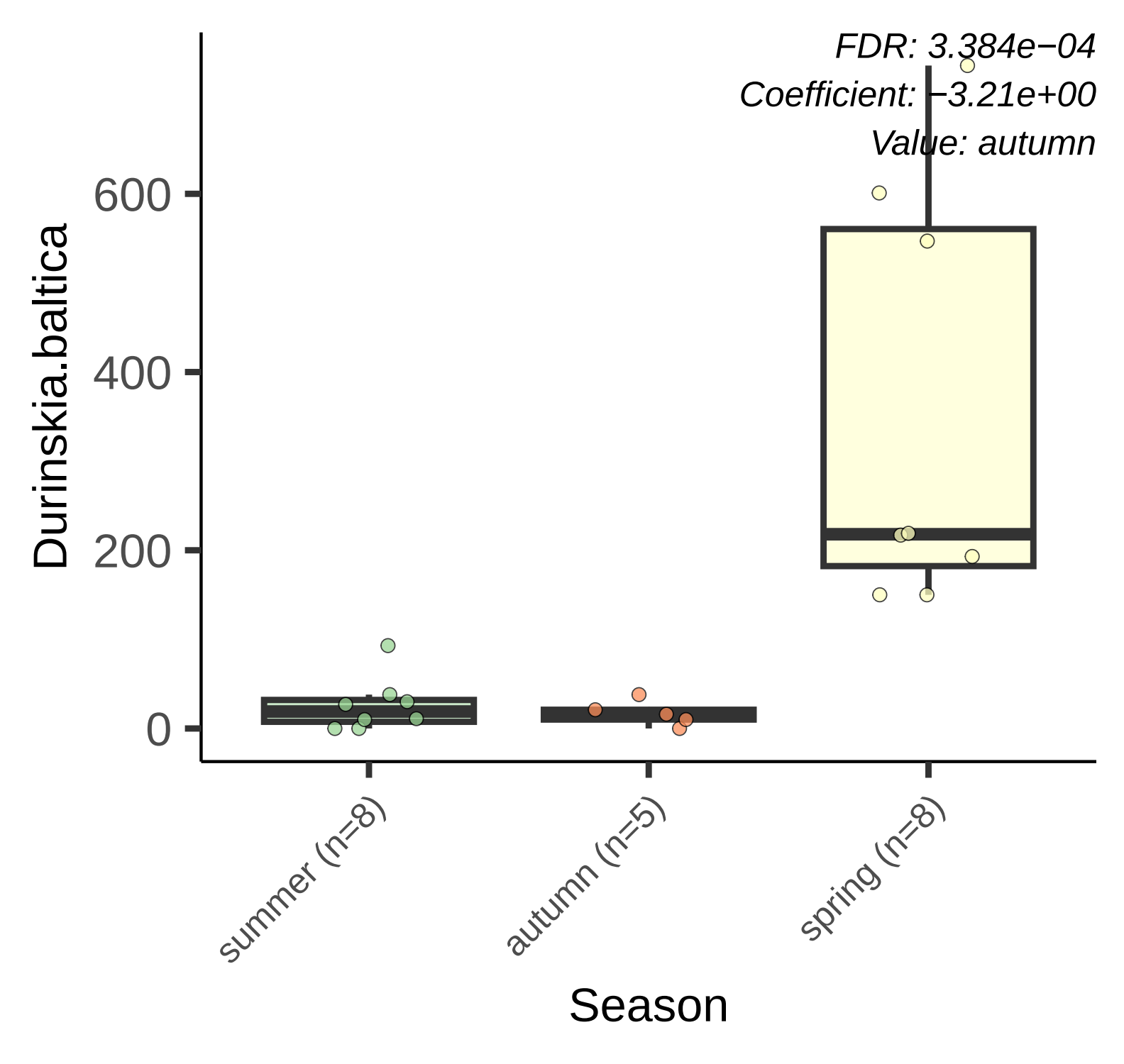

FDR: 2.832e−04
Coefficient: −3.07e+00
Value: autumn
Maribacter.sp..MAR_2009_60
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

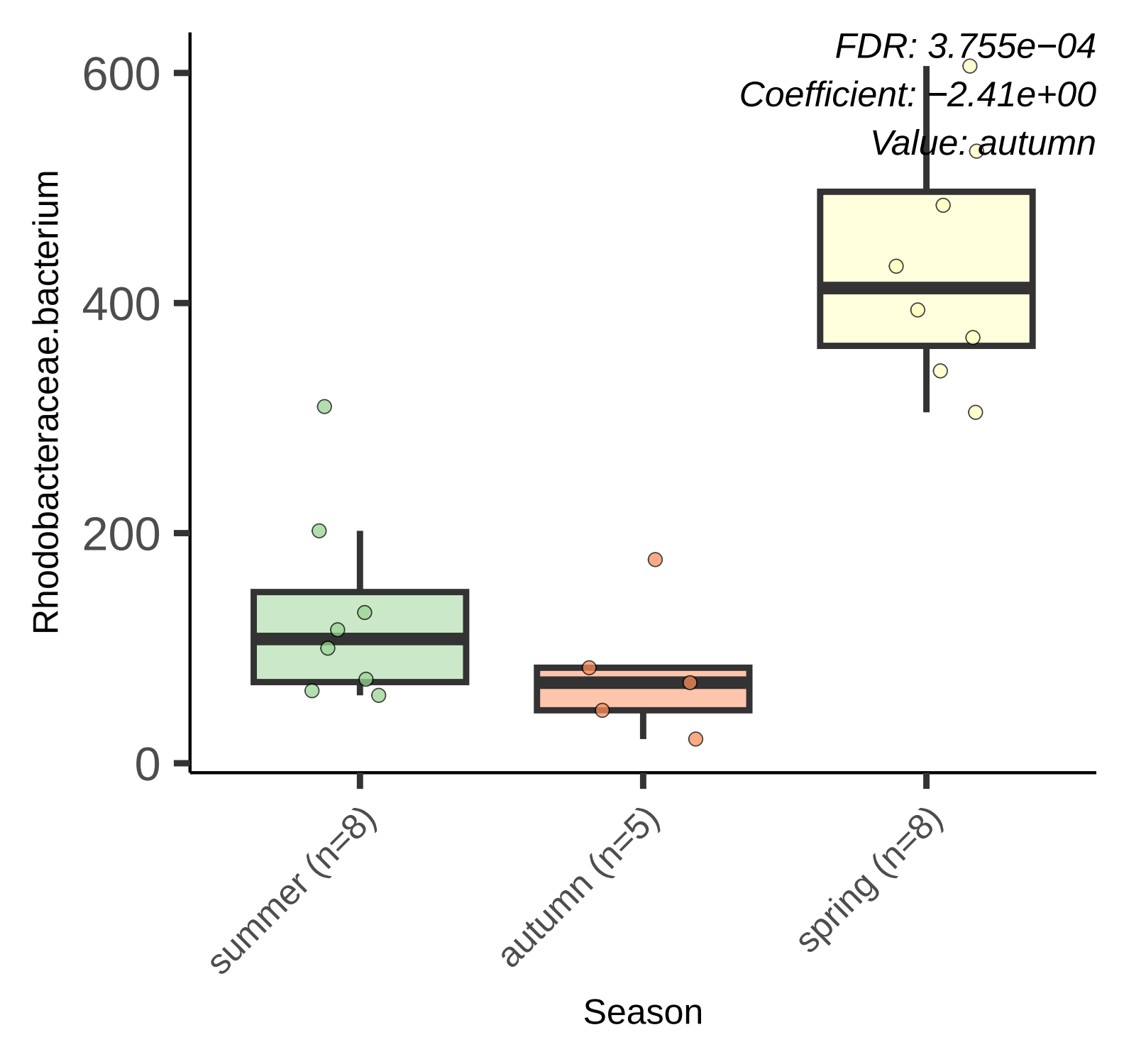

FDR: 2.876e−04
Coefficient: −1.85e+00
Value: autumn
Polaribacter.sp..ALD11
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

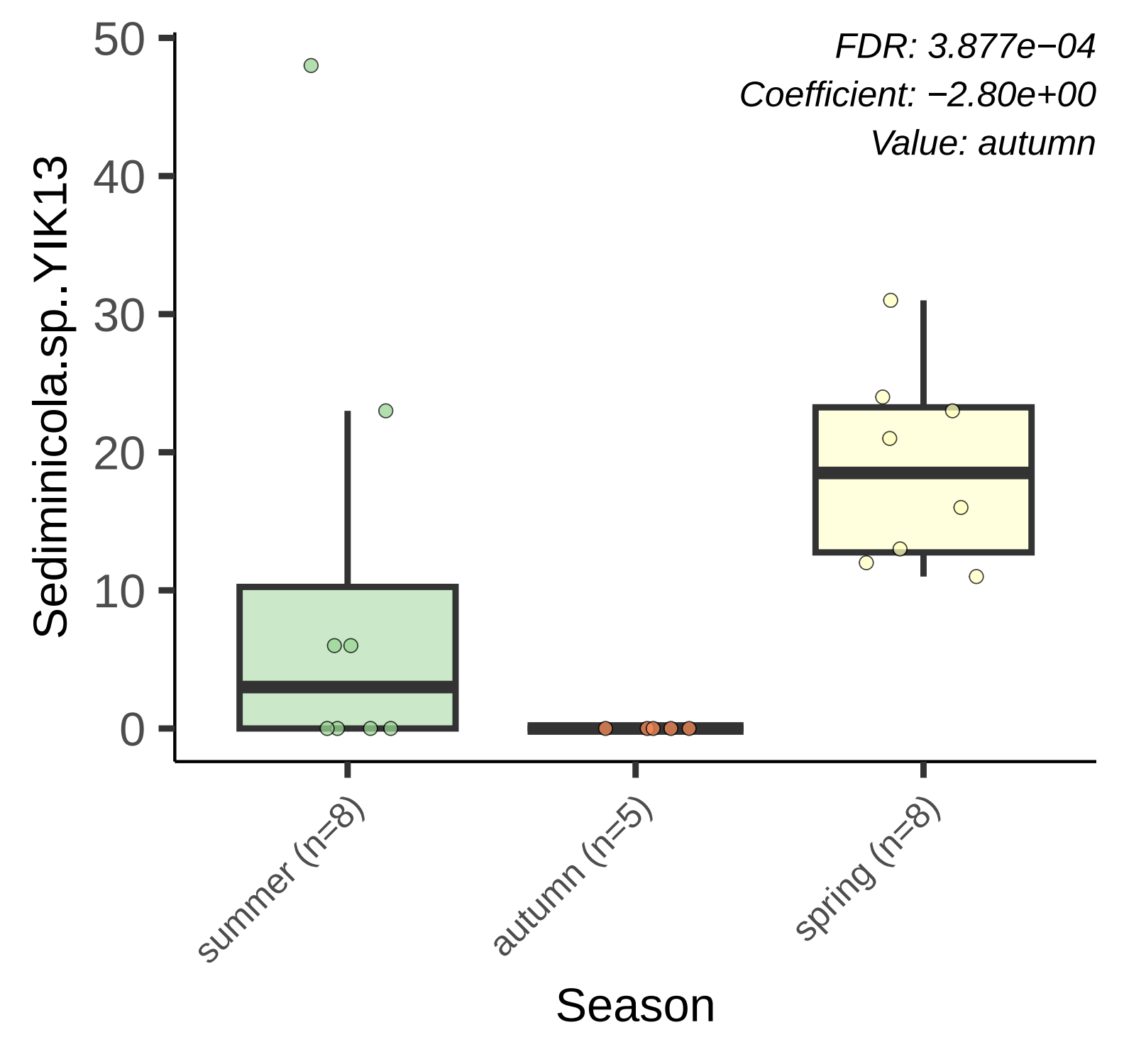

FDR: 2.924e−04
Coefficient: −3.29e+00
Value: autumn
unidentified.marine.bacterioplankton
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

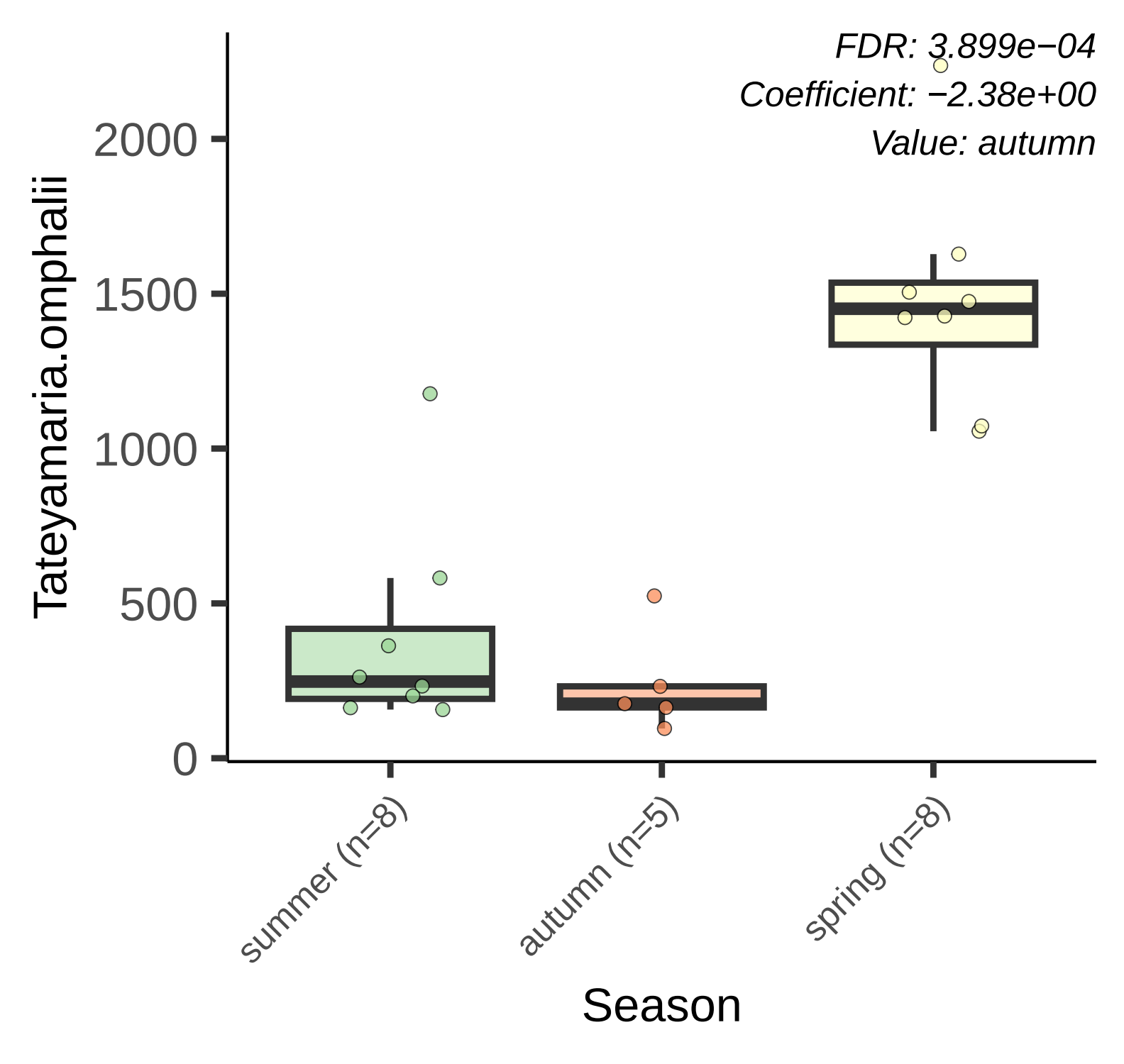

FDR: 3.311e−04
Coefficient: −1.77e+00
Value: autumn
uncultured.labyrinthulid
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

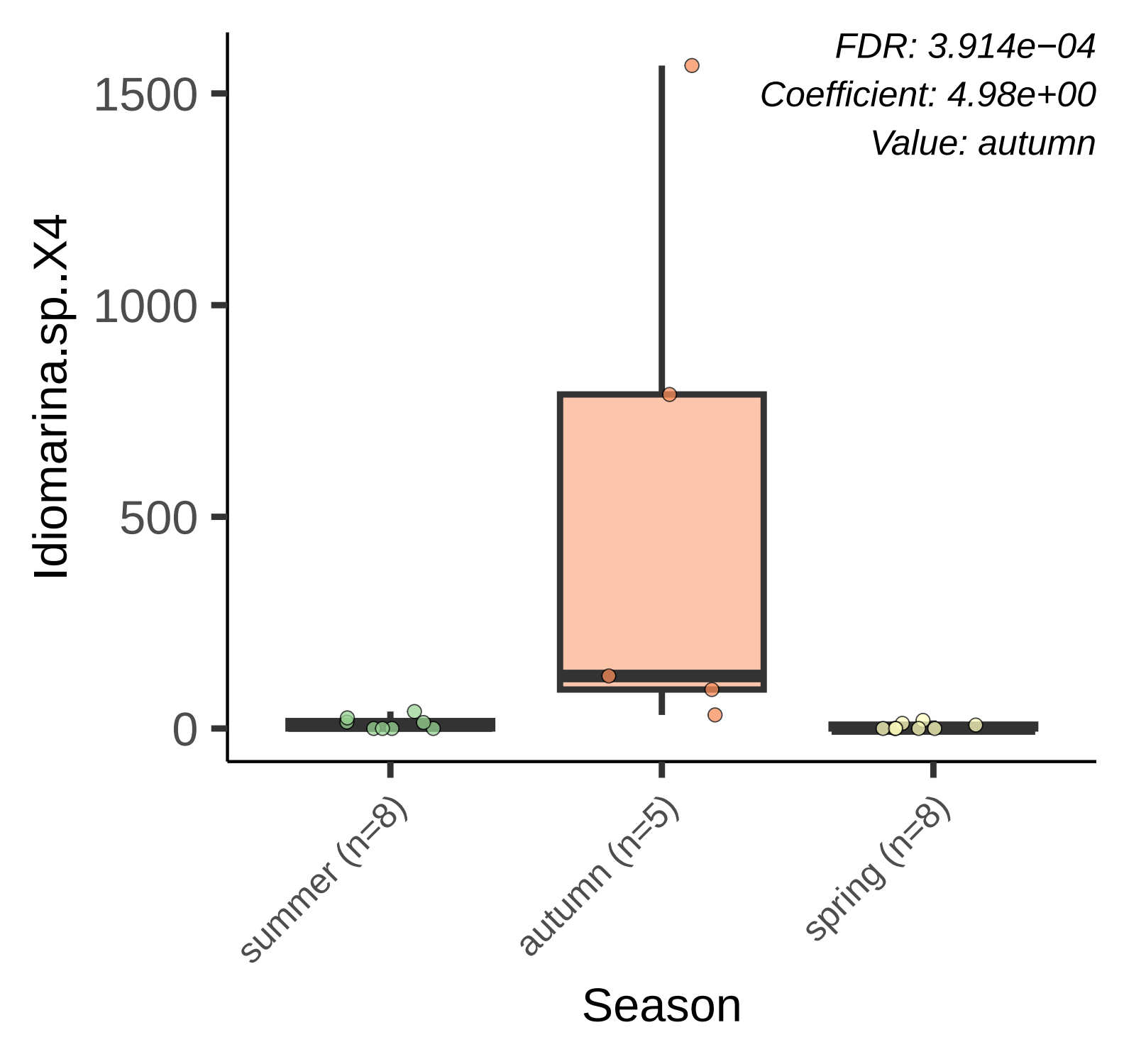

FDR: 3.384e−04
Coefficient: −2.16e+00
Value: autumn
Nonlabens.sediminis
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

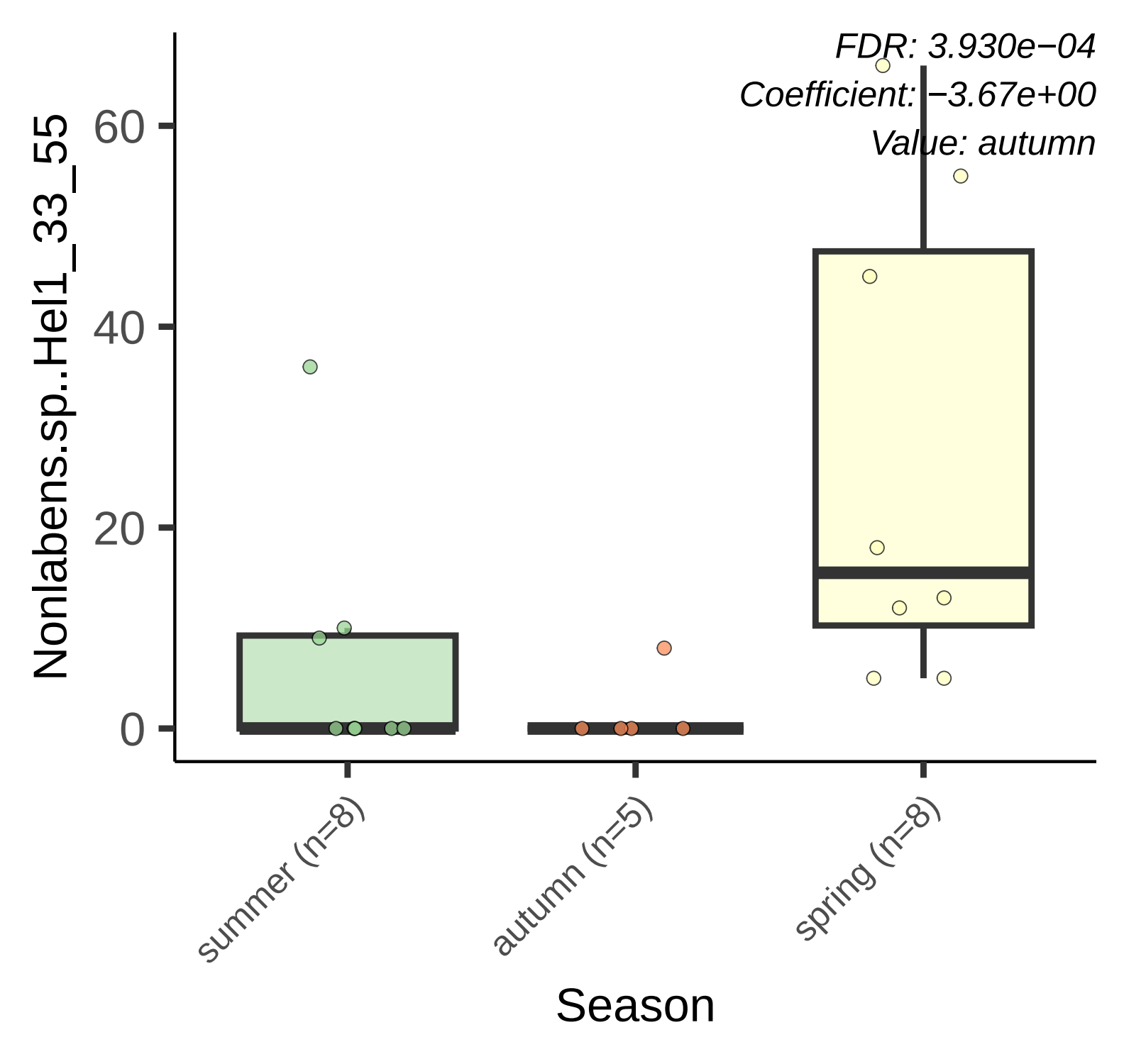

FDR: 3.384e−04
Coefficient: −3.21e+00
Value: autumn
Durinskia.baltica
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

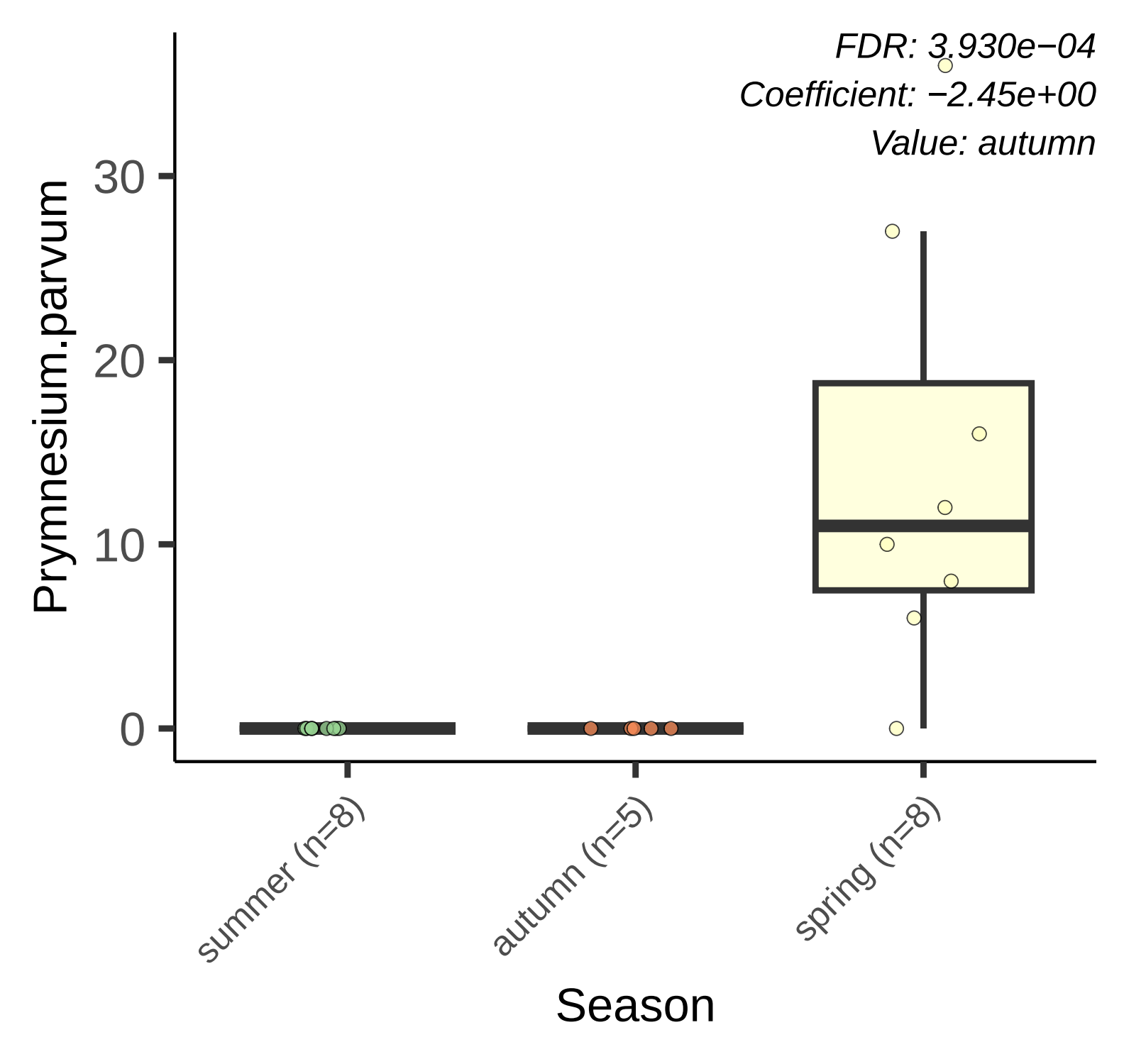

FDR: 3.755e−04
Coefficient: −2.41e+00
Value: autumn
600
400
200
0
Rhodobacteraceae.bacterium
summer (n=8)
autumn (n=5)
spring (n=8)
Season

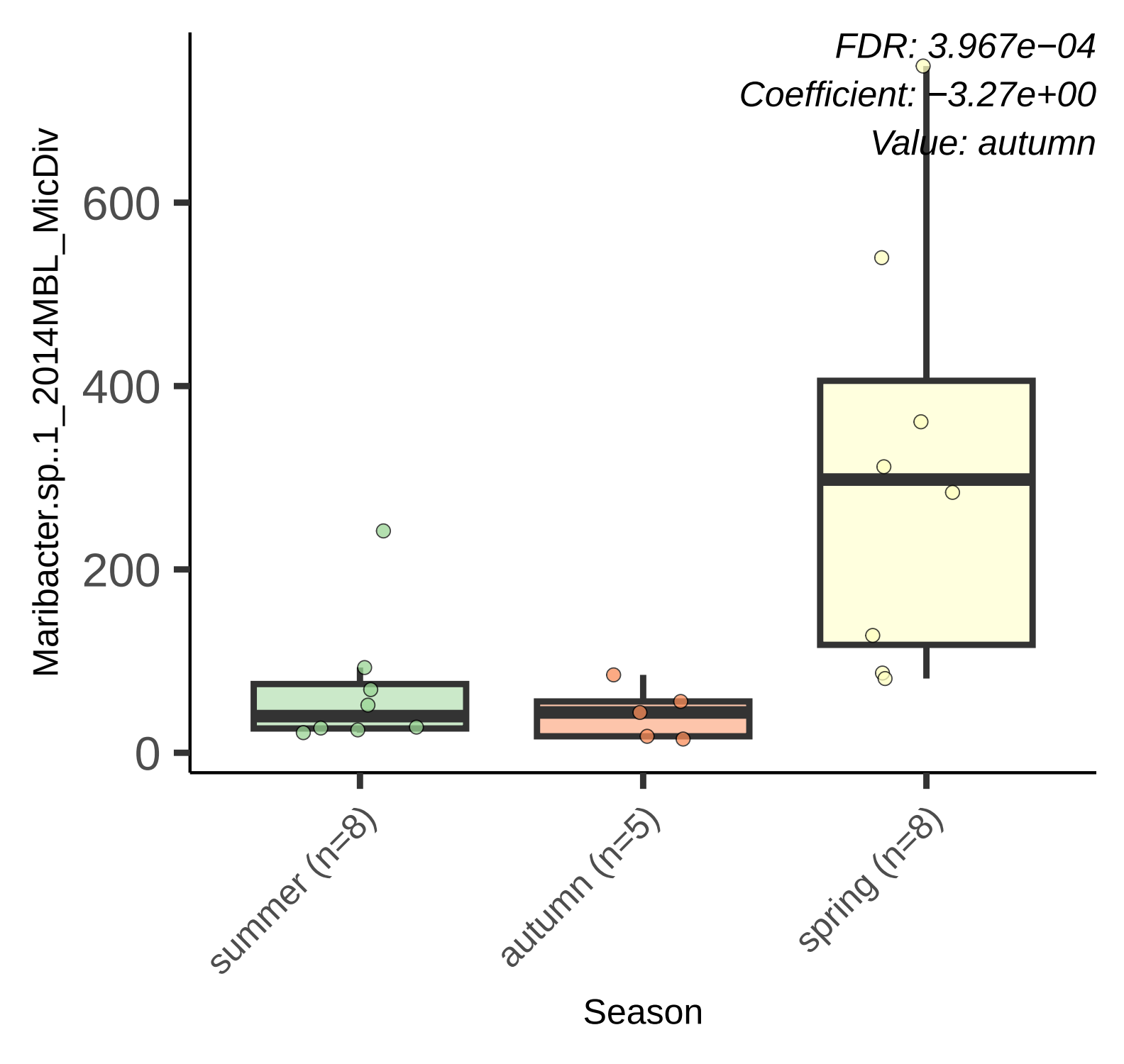

FDR: 3.877e−04
Coefficient: −2.80e+00
Value: autumn
Sediminicola.sp..YIK13
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

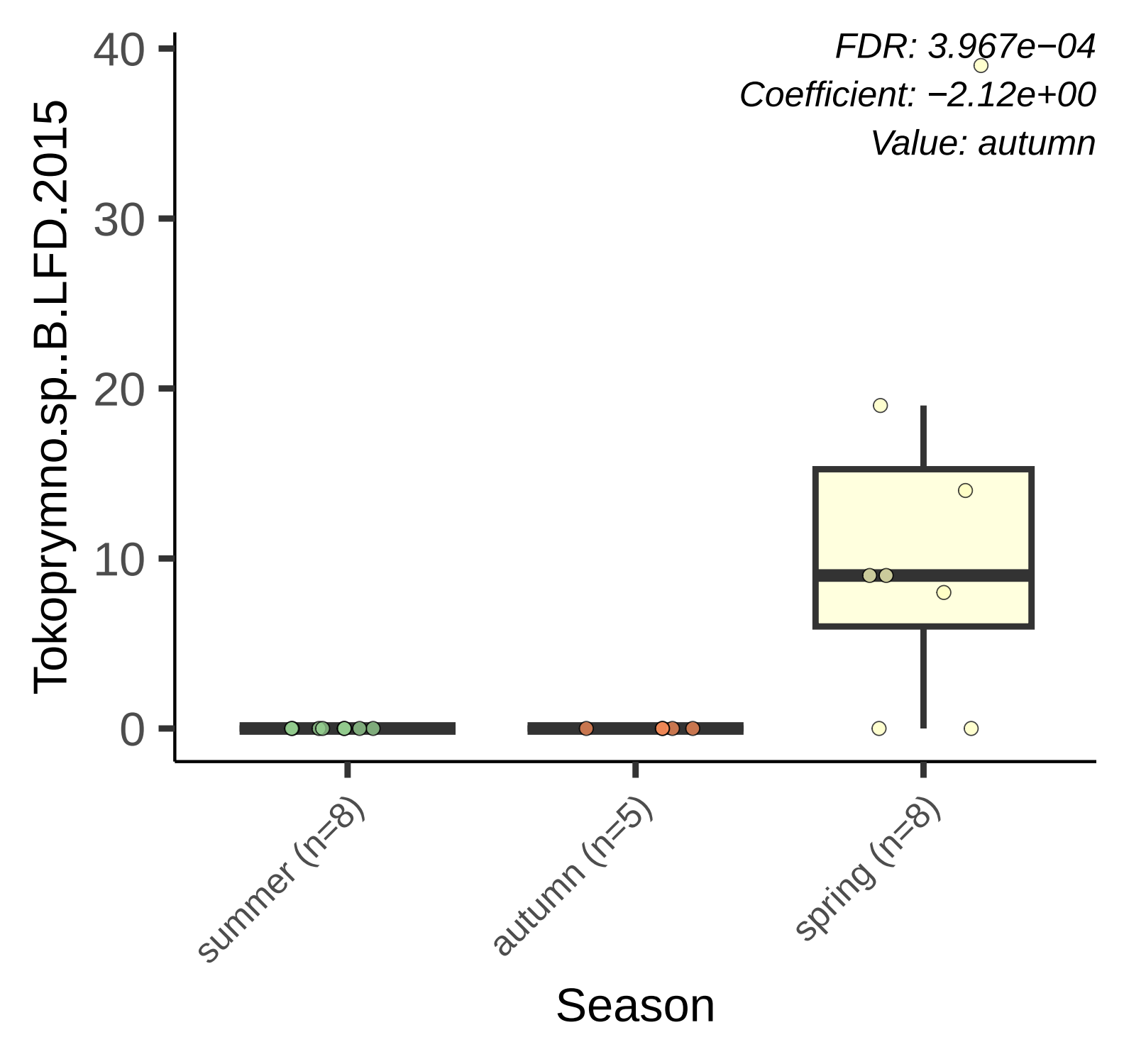

FDR: 3.899e−04
Coefficient: −2.38e+00
Value: autumn
Tateyamaria.omphalii
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

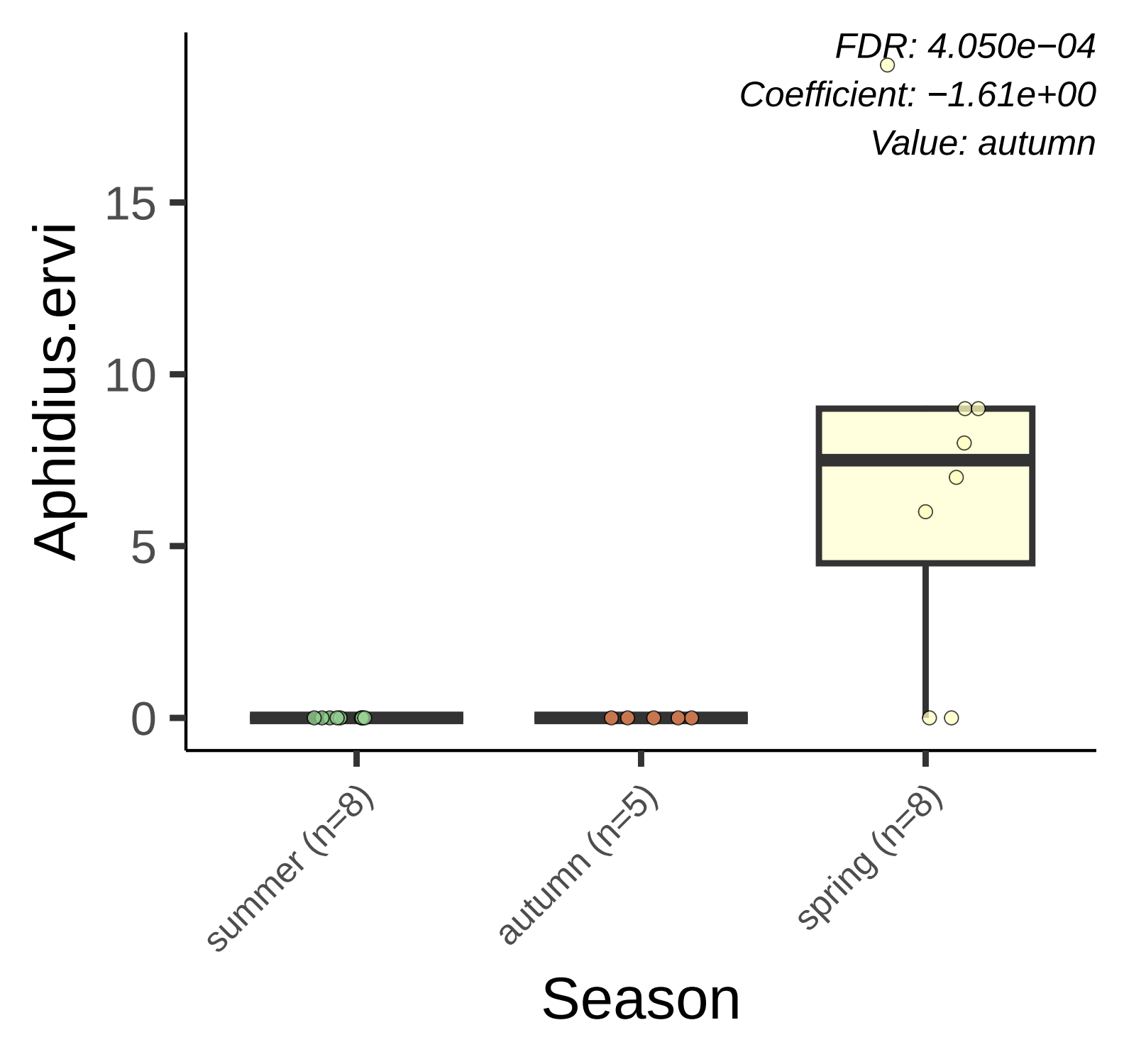

FDR: 3.914e−04
Coefficient: 4.98e+00
Value: autumn
Idiomarina.sp..X4
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

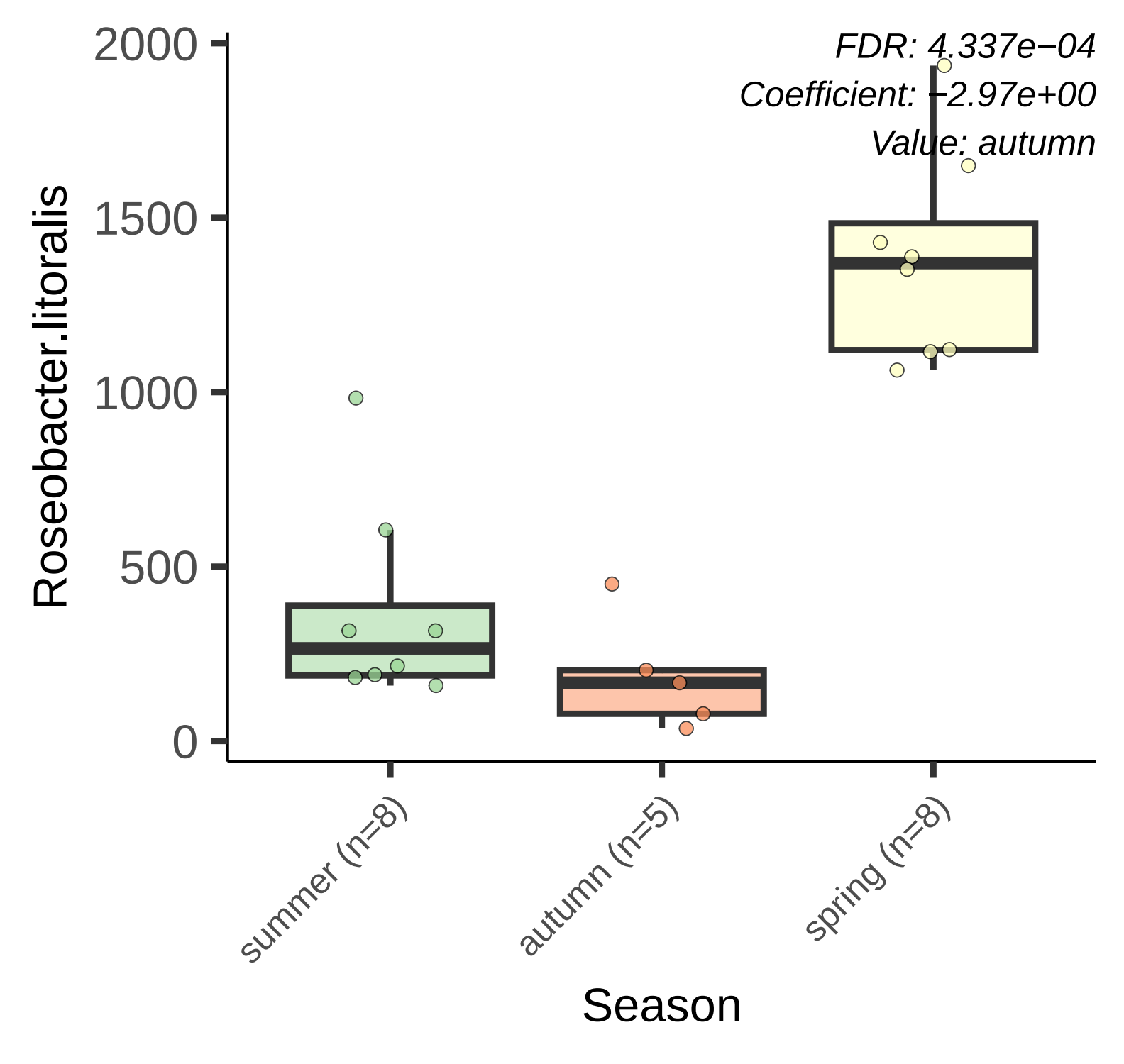

FDR: 3.930e−04
Coefficient: −3.67e+00
Value: autumn
Nonlabens.sp..Hel1_33_55
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

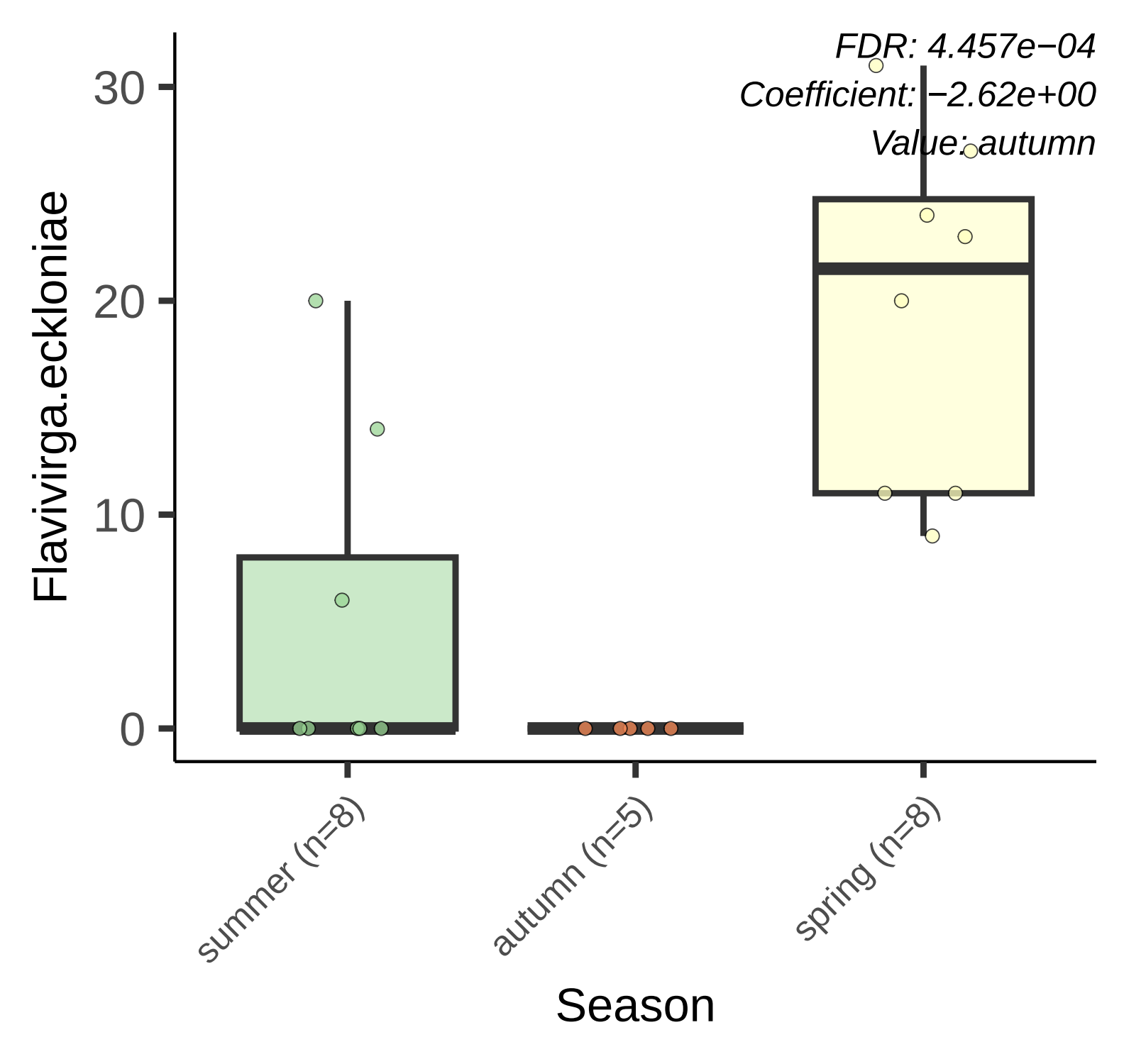

FDR: 3.930e−04
Coefficient: −2.45e+00
Value: autumn
Prymnesium.parvum
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

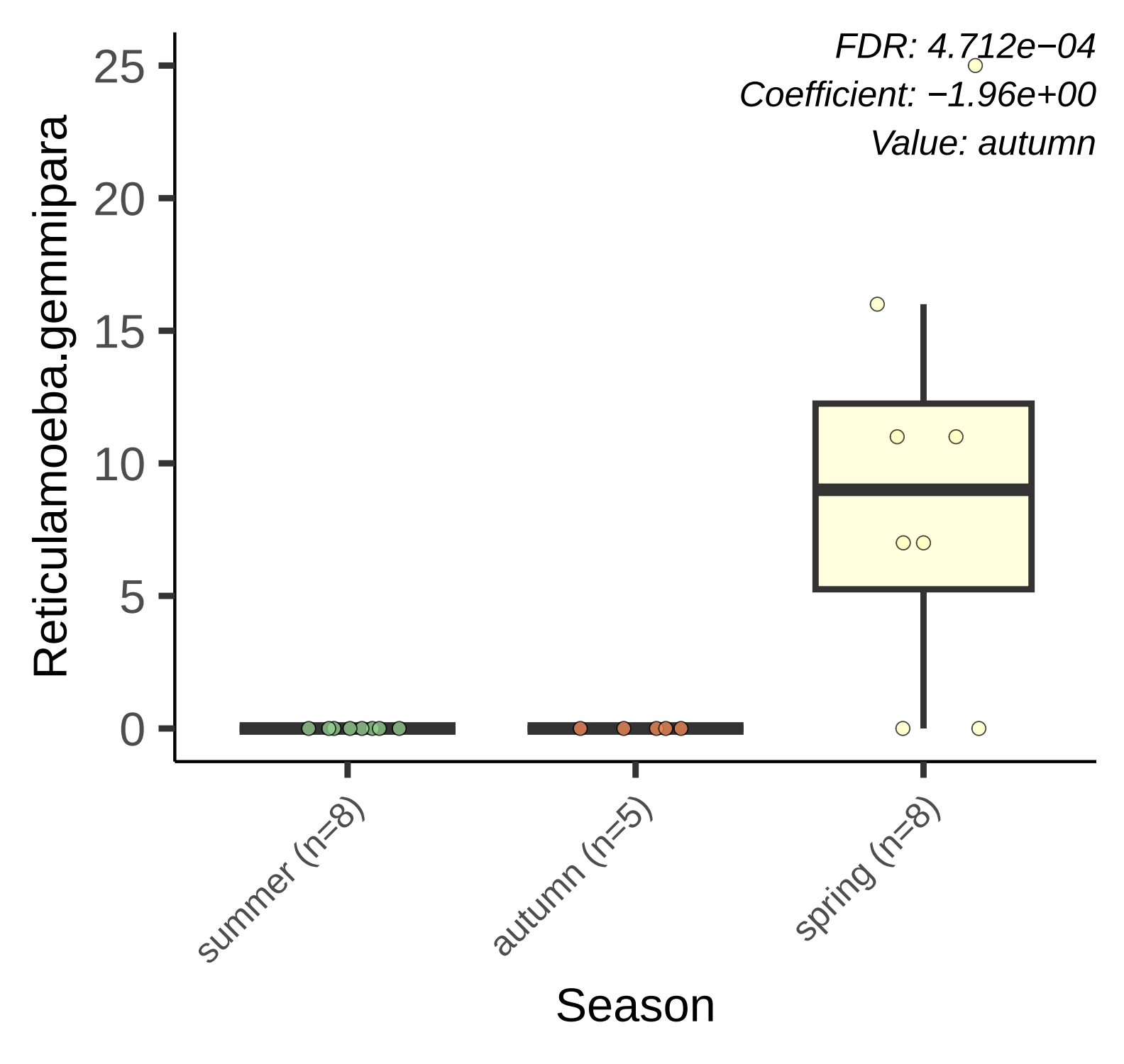

FDR: 3.967e−04
Coefficient: −3.27e+00
Value: autumn
Maribacter.sp..1_2014MBL_MicDiv
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

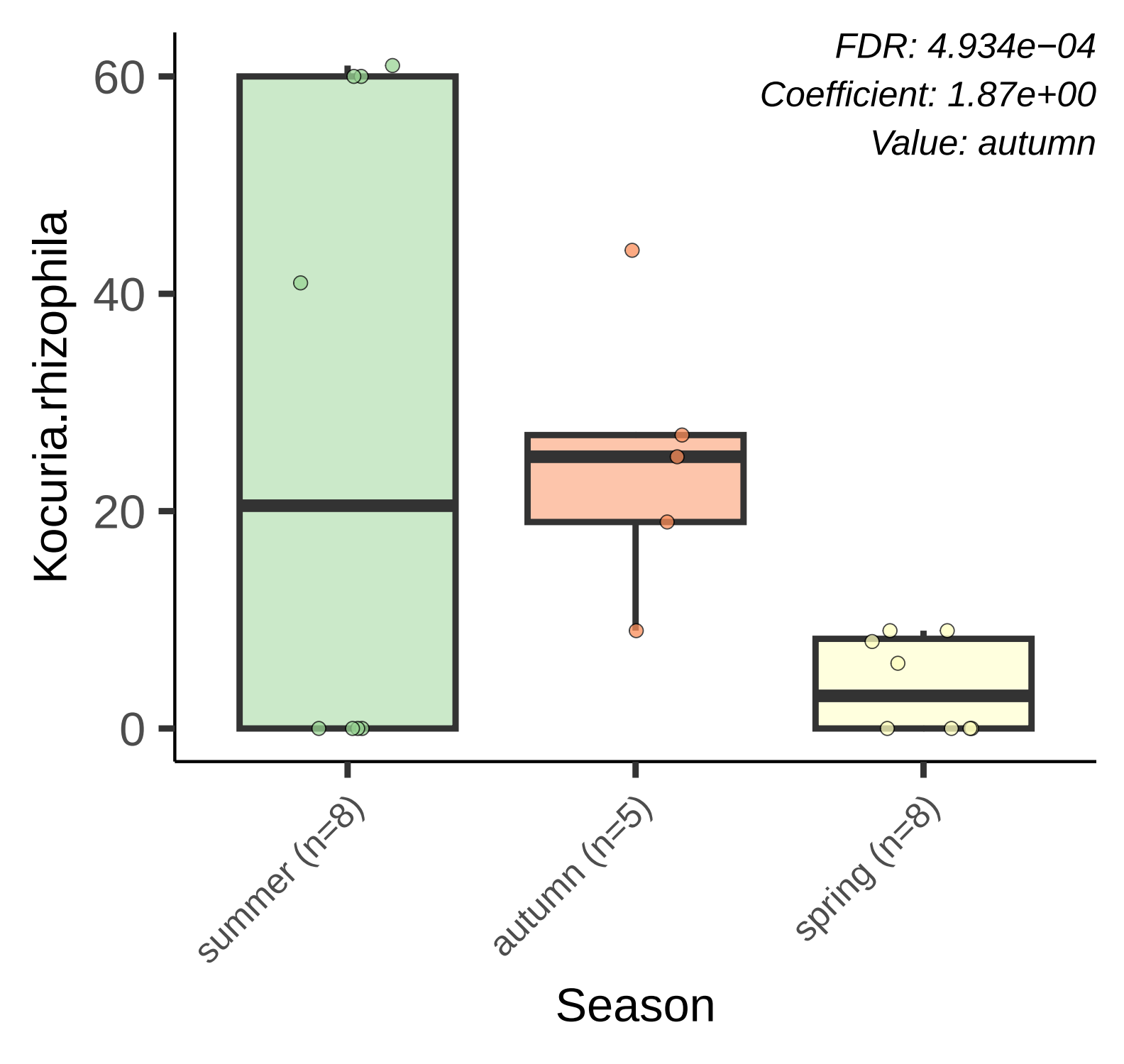

FDR: 3.967e−04
Coefficient: −2.12e+00
Value: autumn
Tokoprymno.sp..B.LFD.2015
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

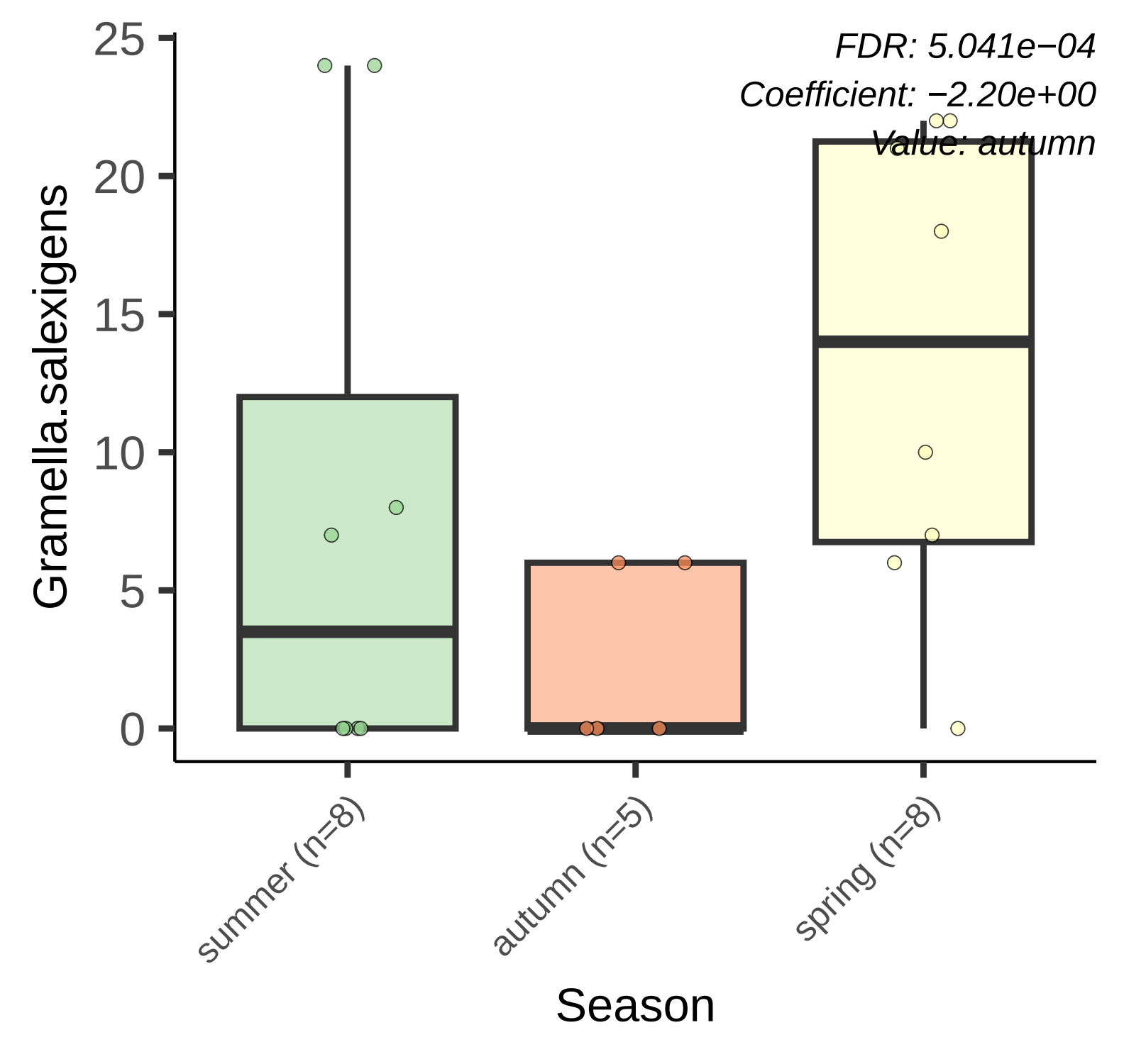

FDR: 4.050e−04
Coefficient: −1.61e+00
Value: autumn
Aphidius.ervi
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

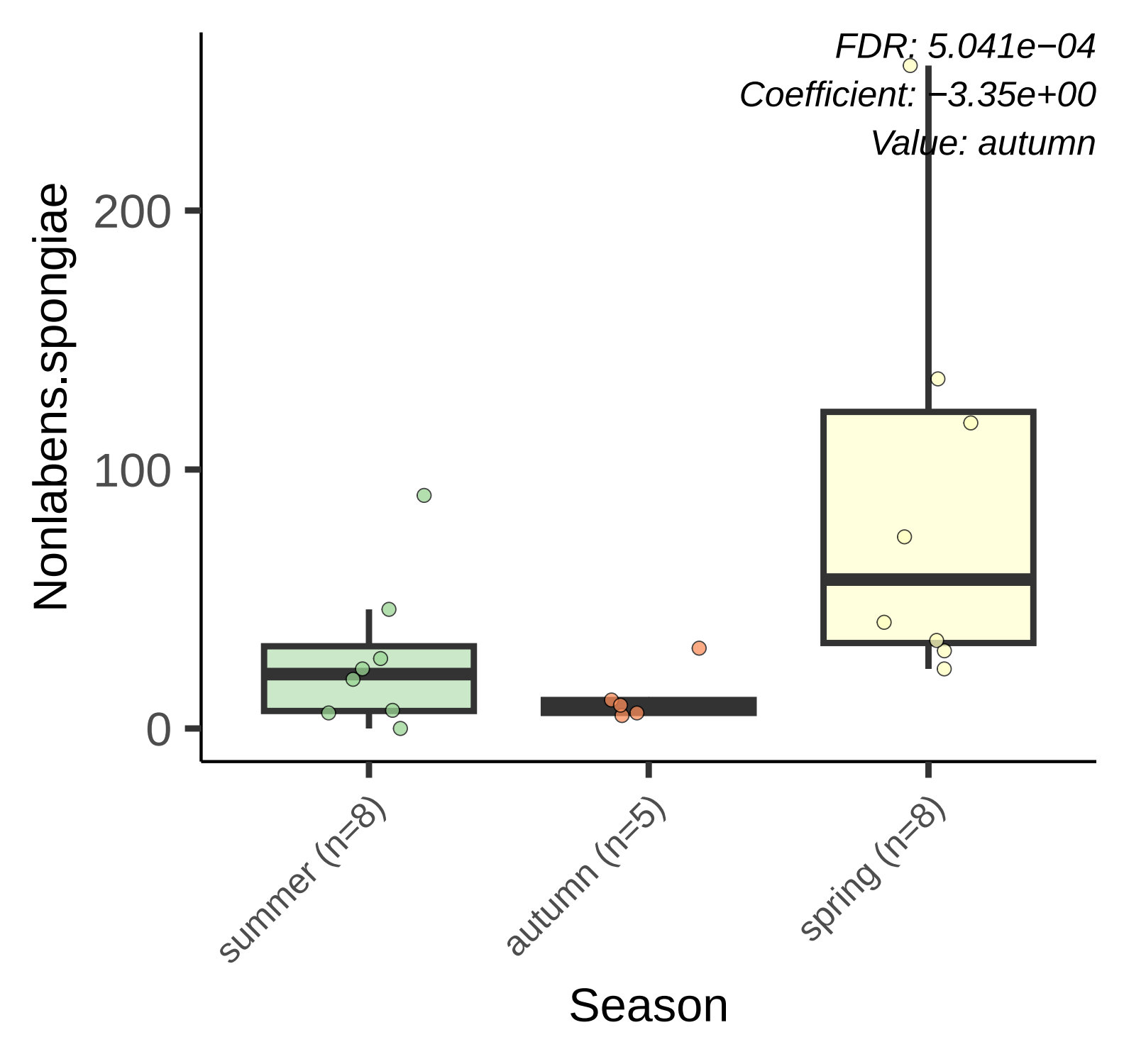

FDR: 4.337e−04
Coefficient: −2.97e+00
Value: autumn
Roseobacter.litoralis
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

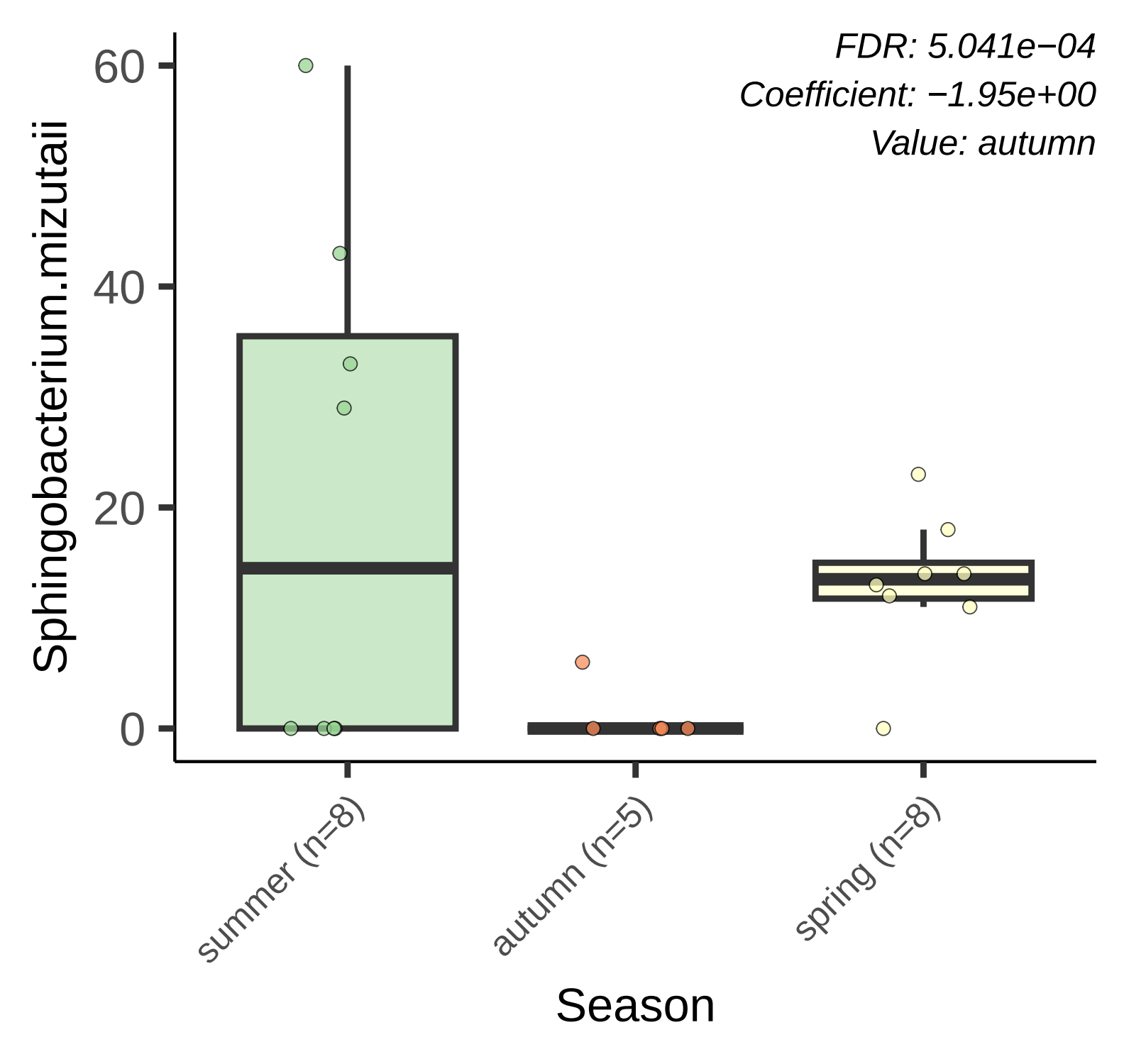

FDR: 4.457e−04
Coefficient: −2.62e+00
Value: autumn
Flavivirga.eckloniae
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

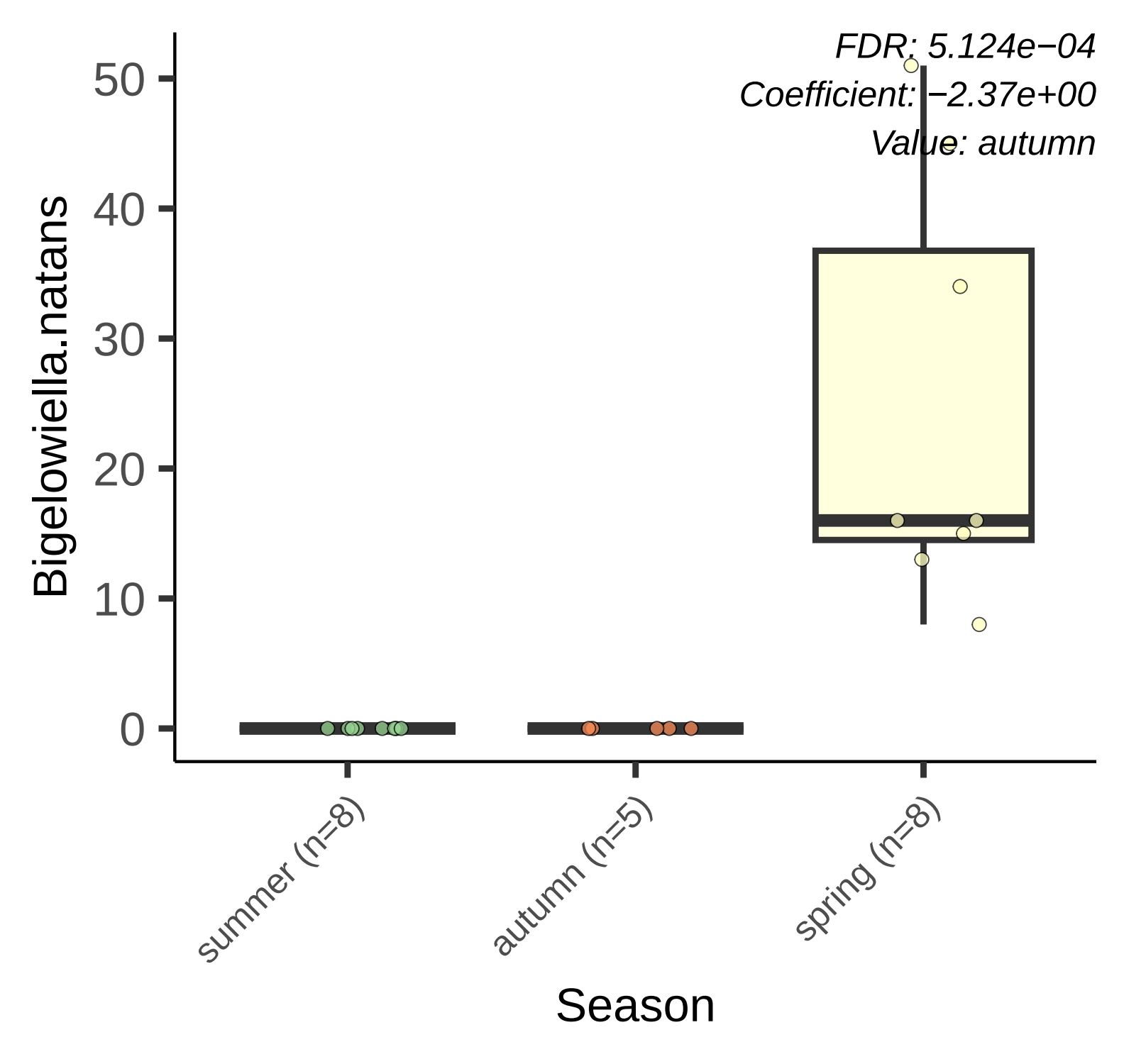

FDR: 4.712e−04
Coefficient: −1.96e+00
Value: autumn
Reticulamoeba.gemmipara
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

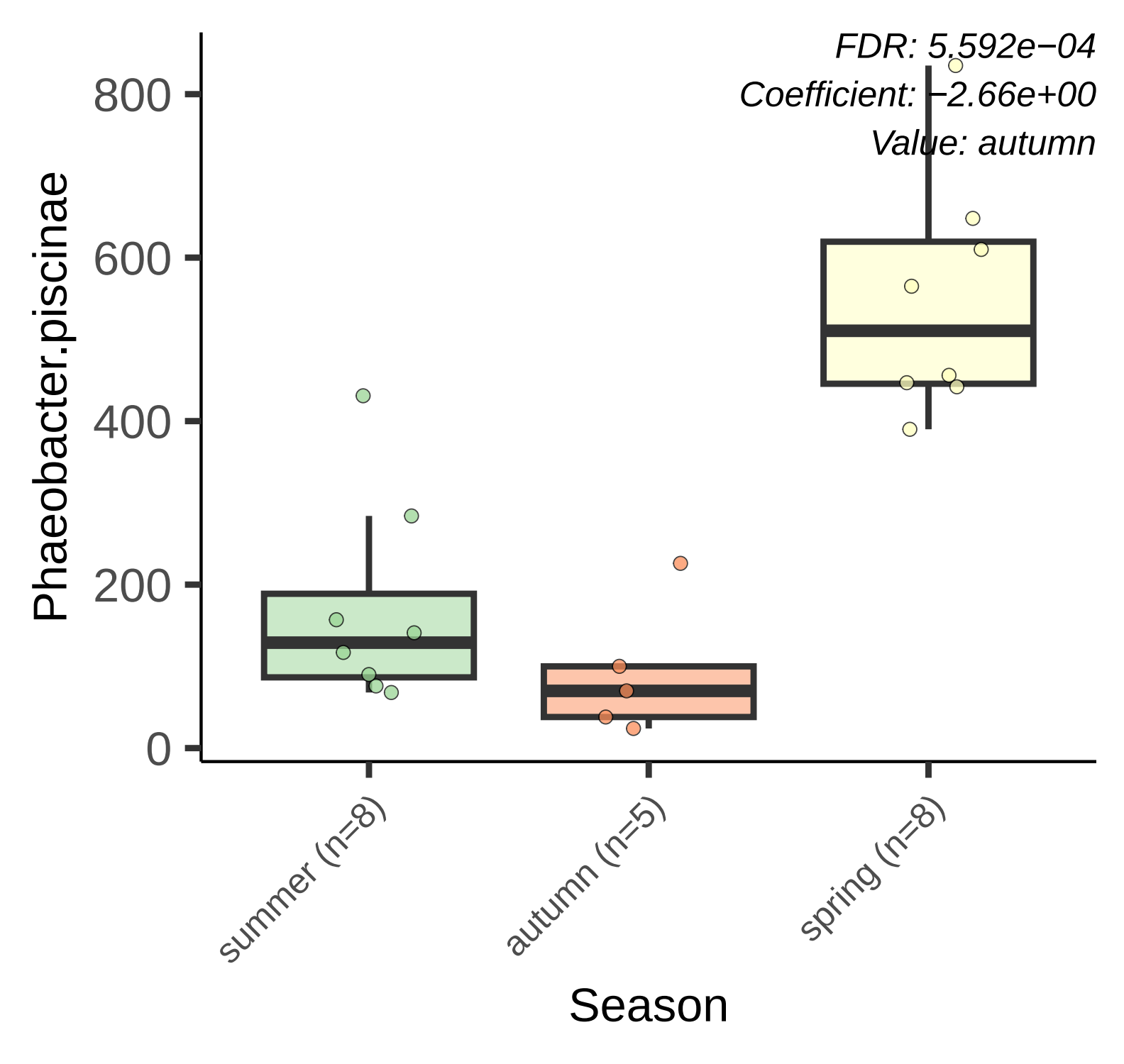

FDR: 4.934e−04
Coefficient: 1.87e+00
Value: autumn
Kocuria.rhizophila
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

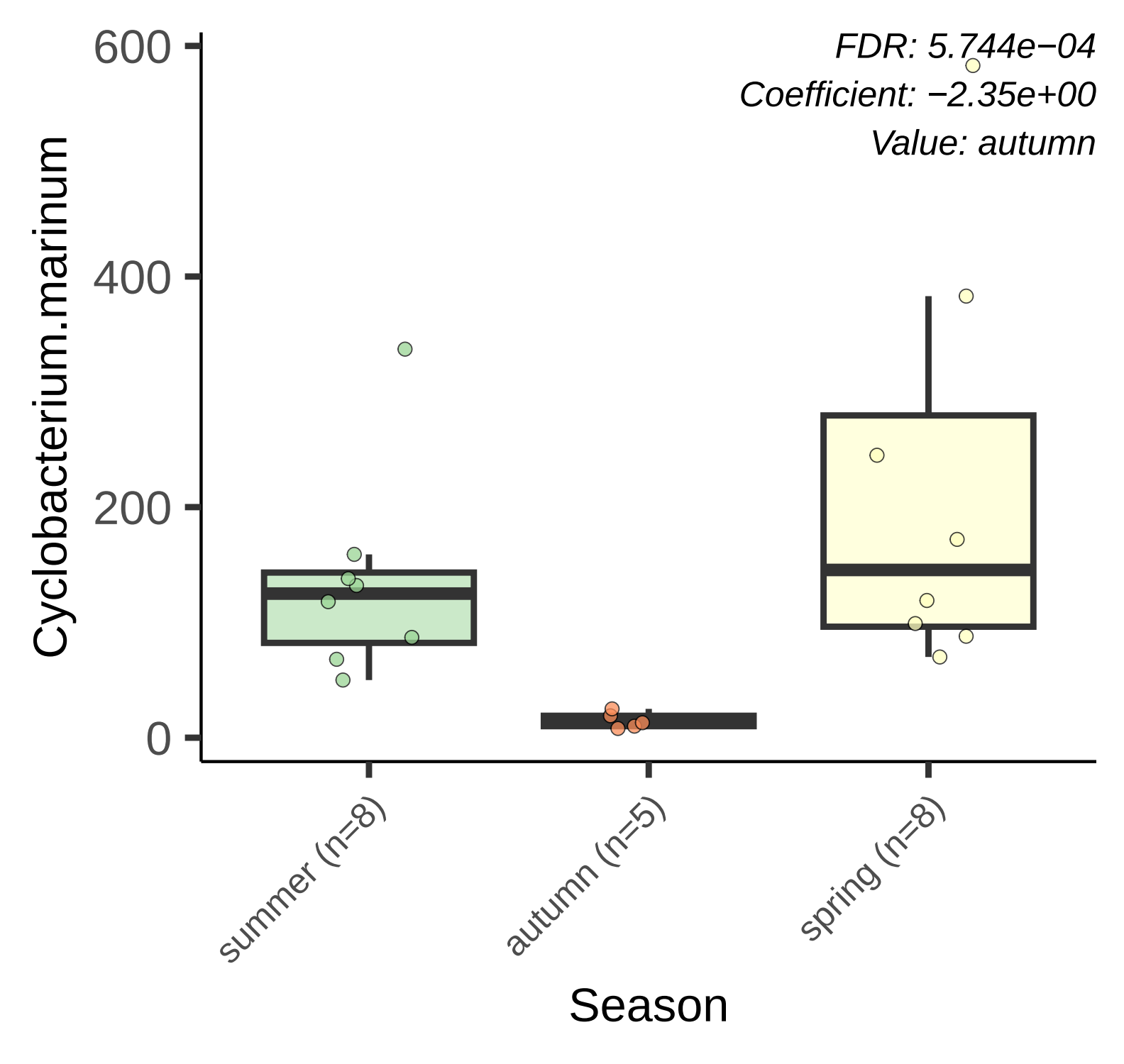

FDR: 5.041e−04
Coefficient: −2.20e+00
Value: autumn
Gramella.salexigens
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

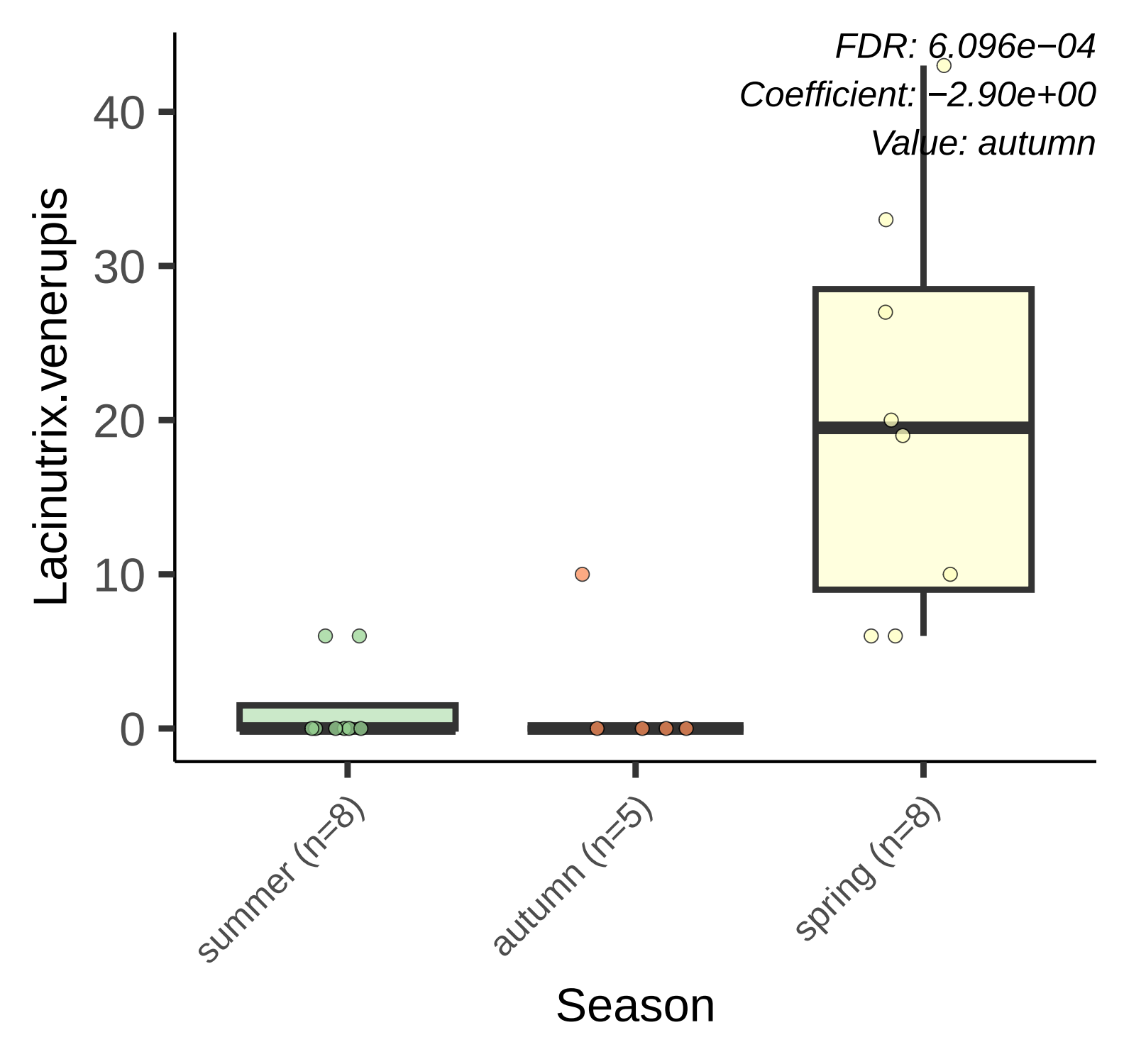

FDR: 5.041e−04
Coefficient: −3.35e+00
Value: autumn
Nonlabens.spongiae
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

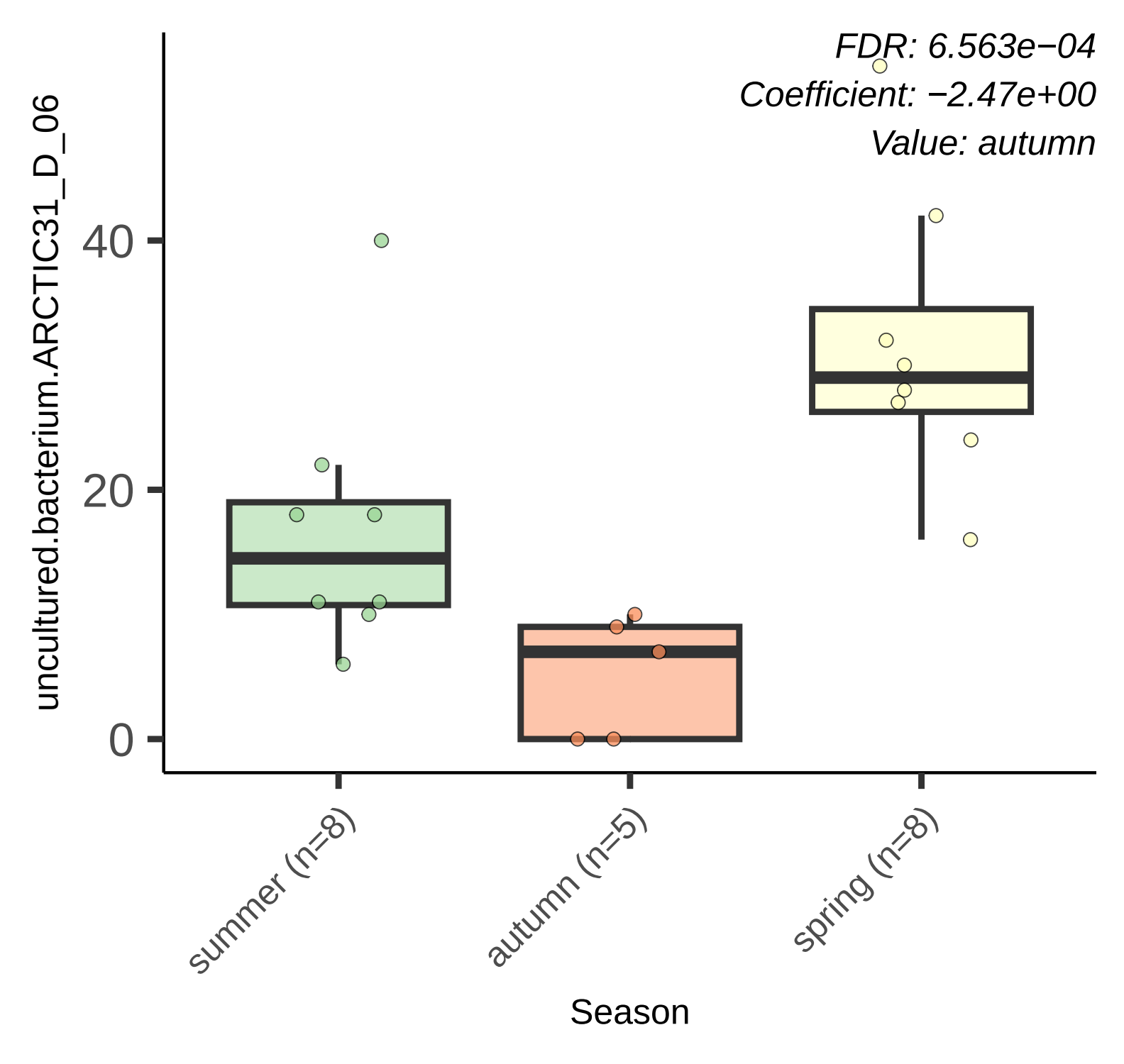

FDR: 5.041e−04
Coefficient: −1.95e+00
Value: autumn
Sphingobacterium.mizutaii
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

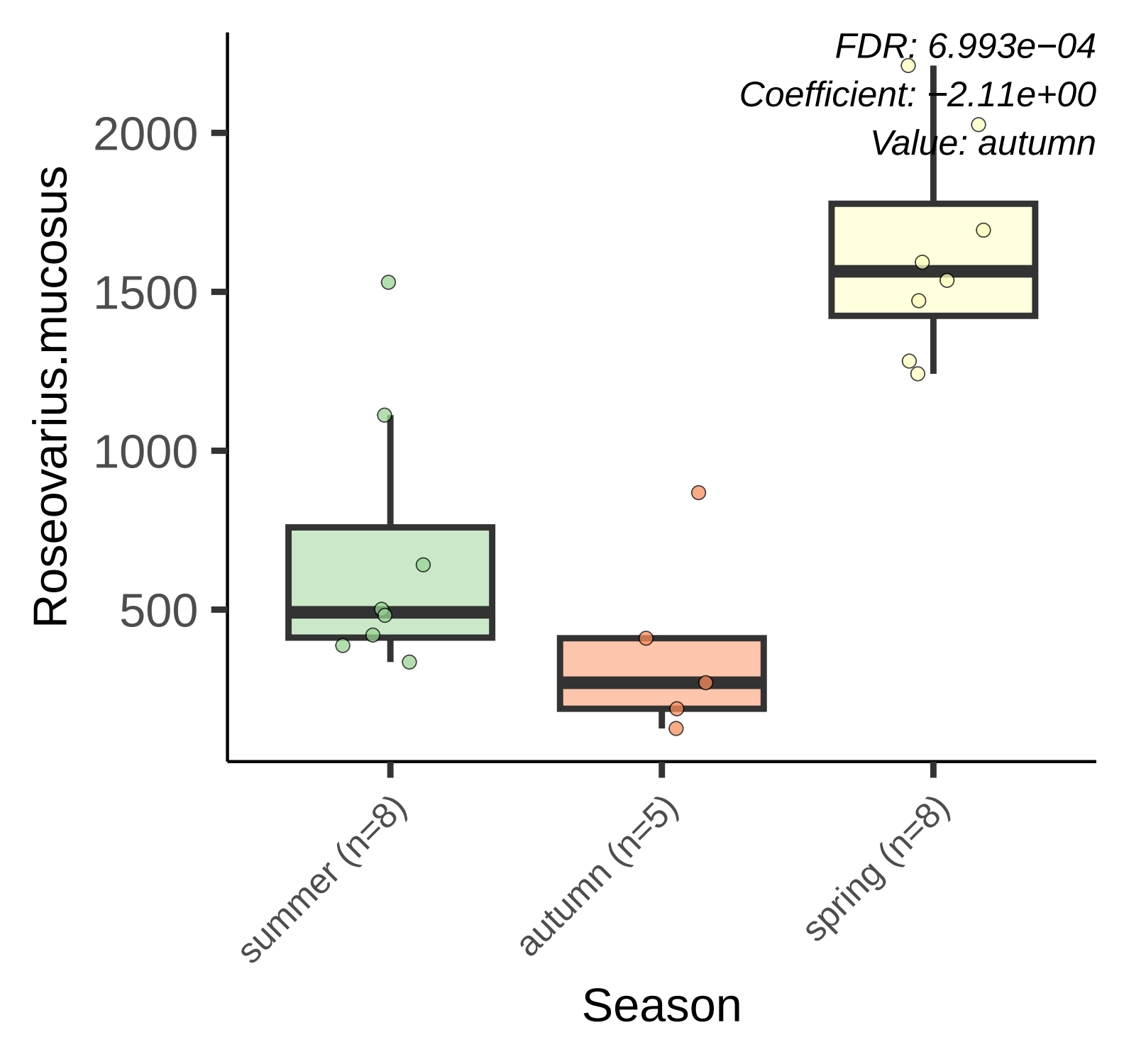

FDR: 5.124e−04
Coefficient: −2.37e+00
Value: autumn
Bigelowiella.natans
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

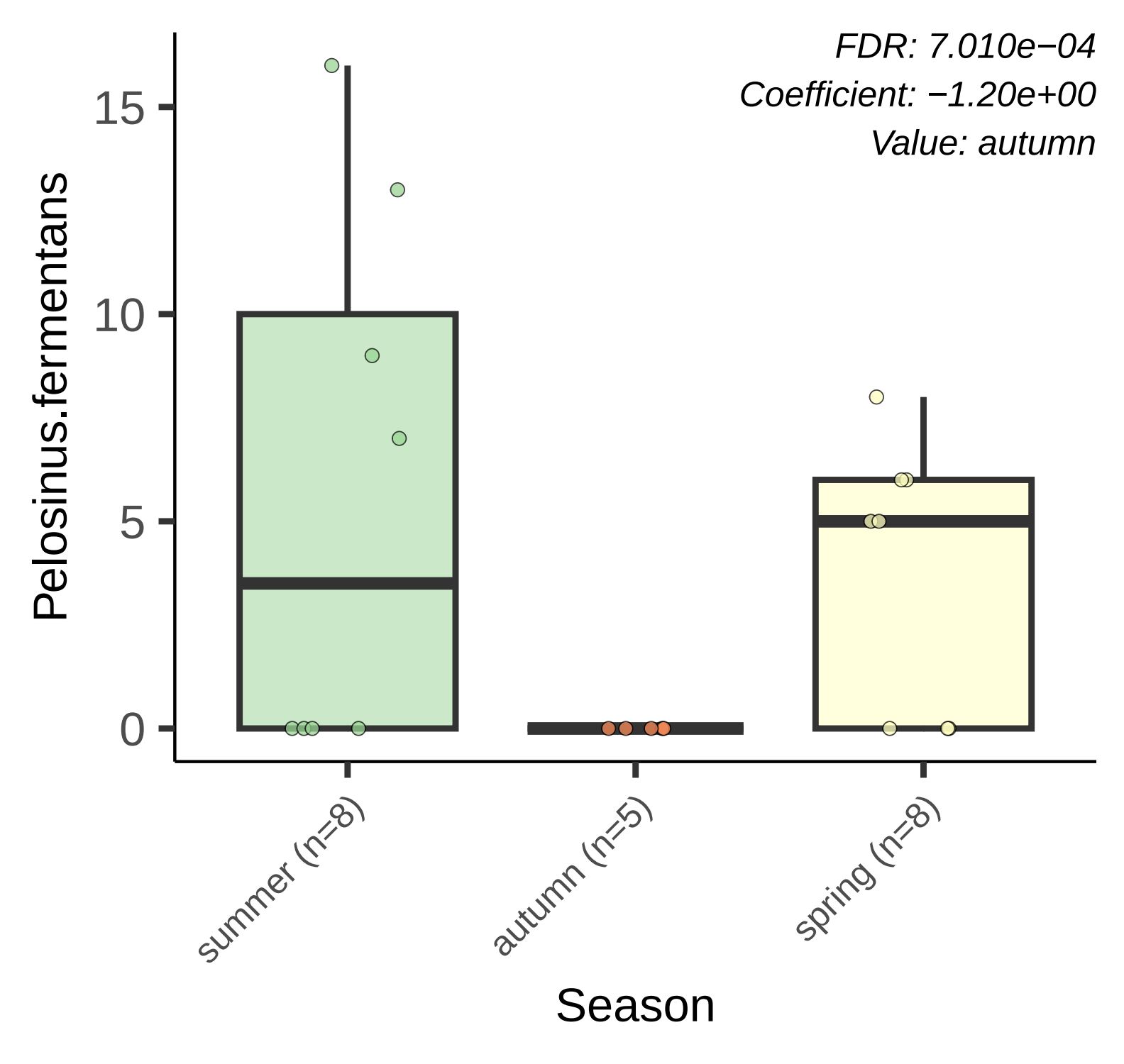

FDR: 5.592e−04
Coefficient: −2.66e+00
Value: autumn
Phaeobacter.piscinae
800
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

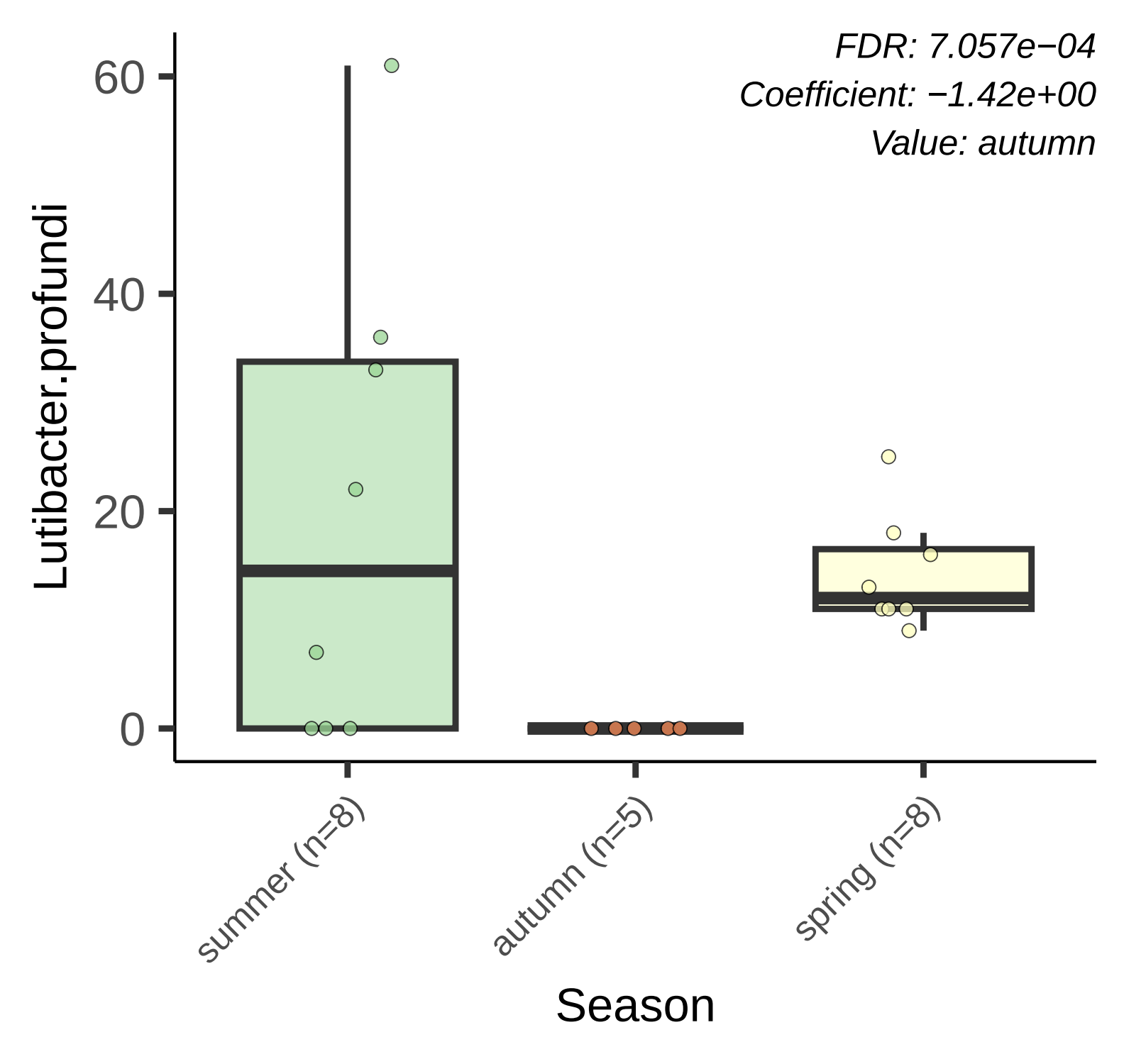

FDR: 5.744e−04
Coefficient: −2.35e+00
Value: autumn
Cyclobacterium.marinum
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

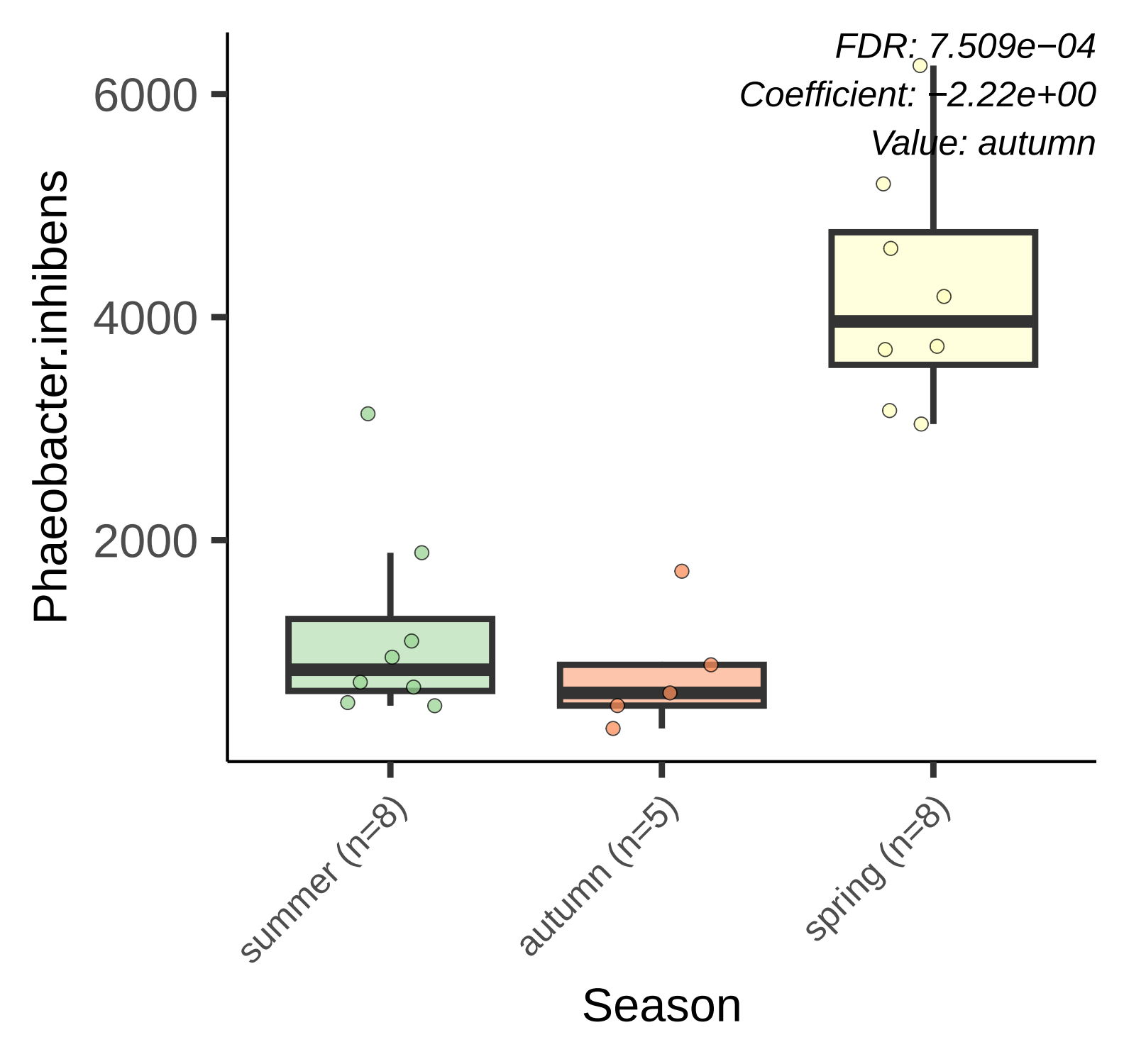

FDR: 6.096e−04
Coefficient: −2.90e+00
Value: autumn
Lacinutrix.venerupis
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

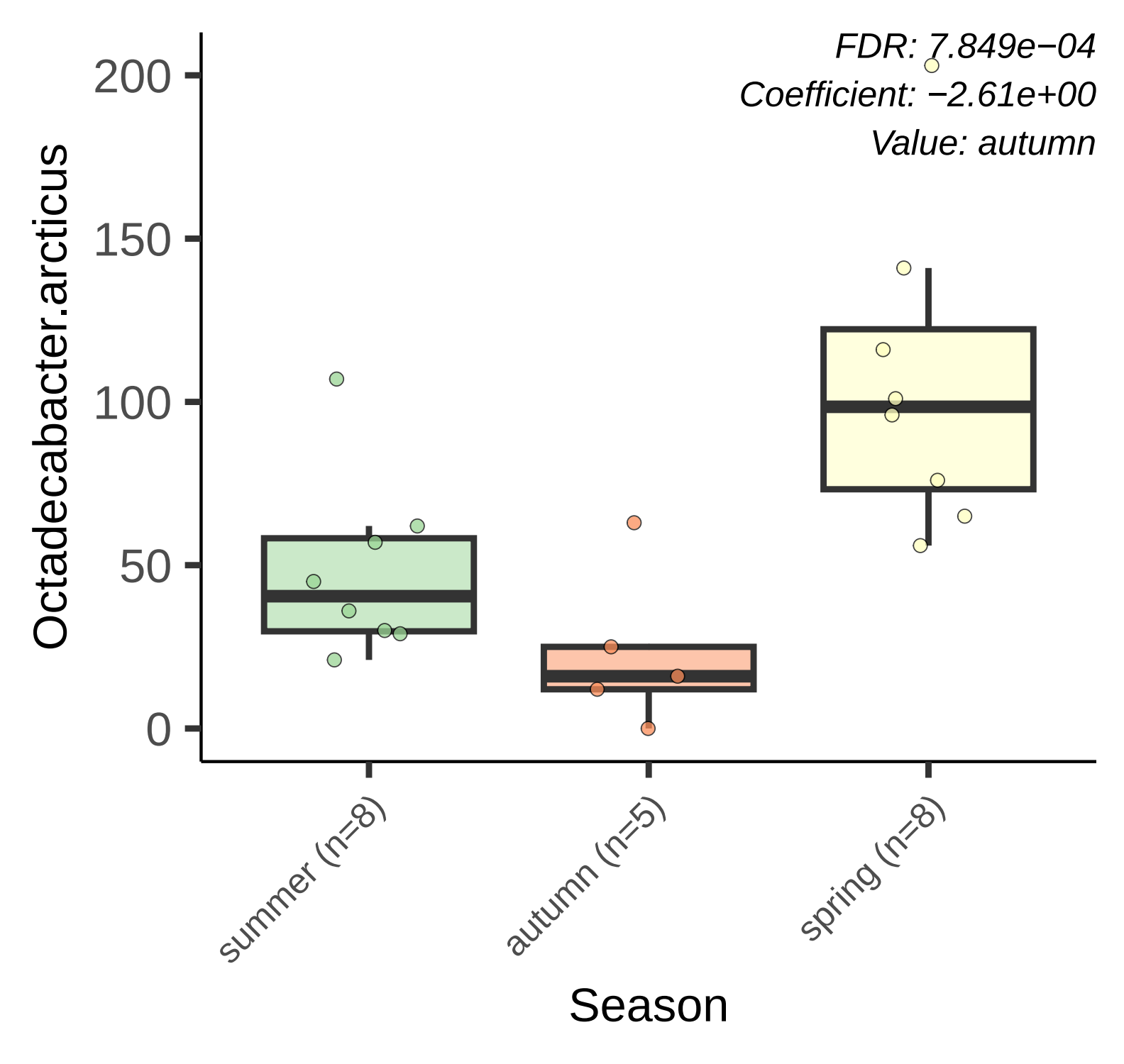

FDR: 6.563e−04
Coefficient: −2.47e+00
Value: autumn
uncultured.bacterium.ARCTIC31_D_06
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

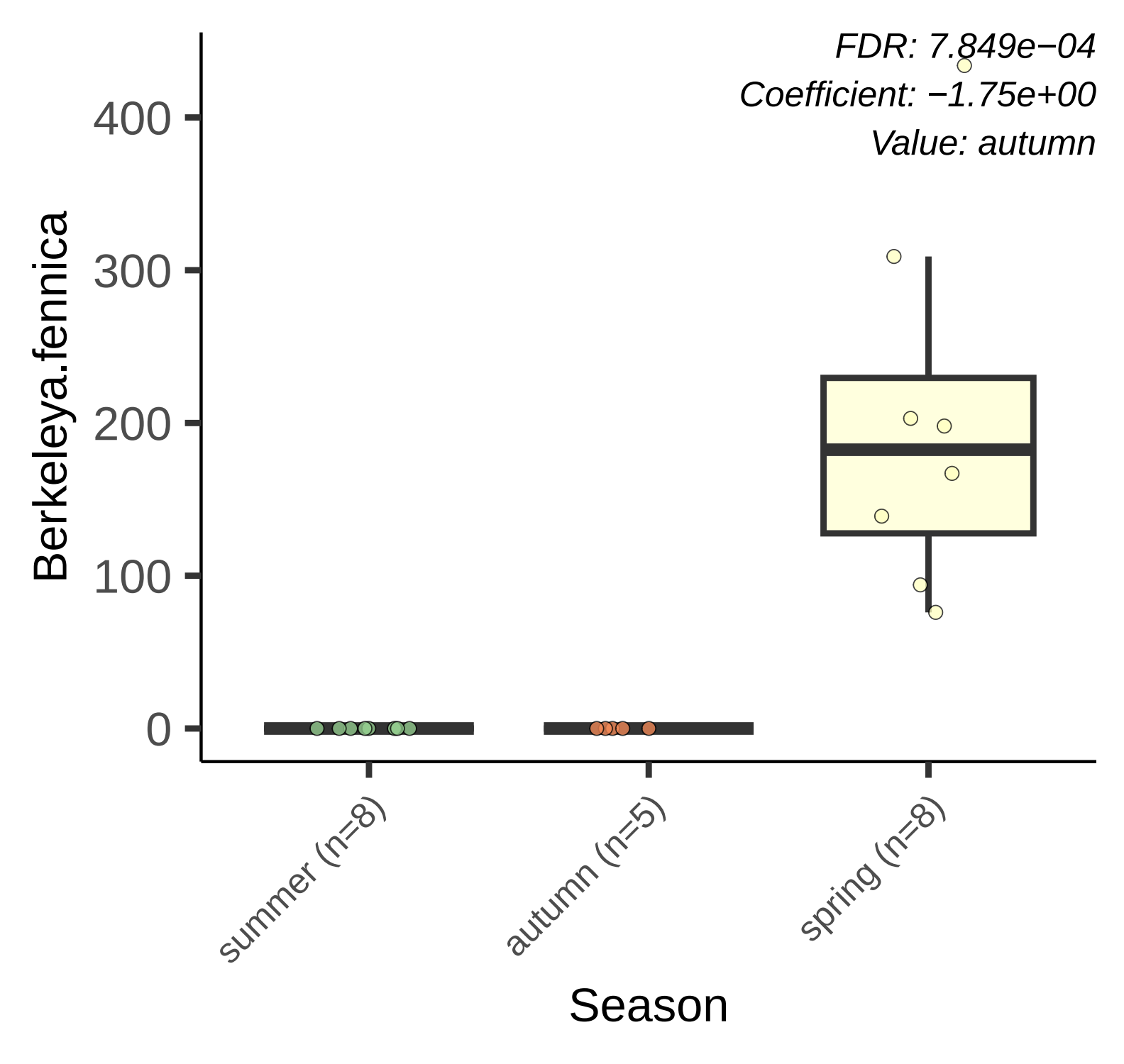

FDR: 6.993e−04
Coefficient: −2.11e+00
Value: autumn
Roseovarius.mucosus
2000
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

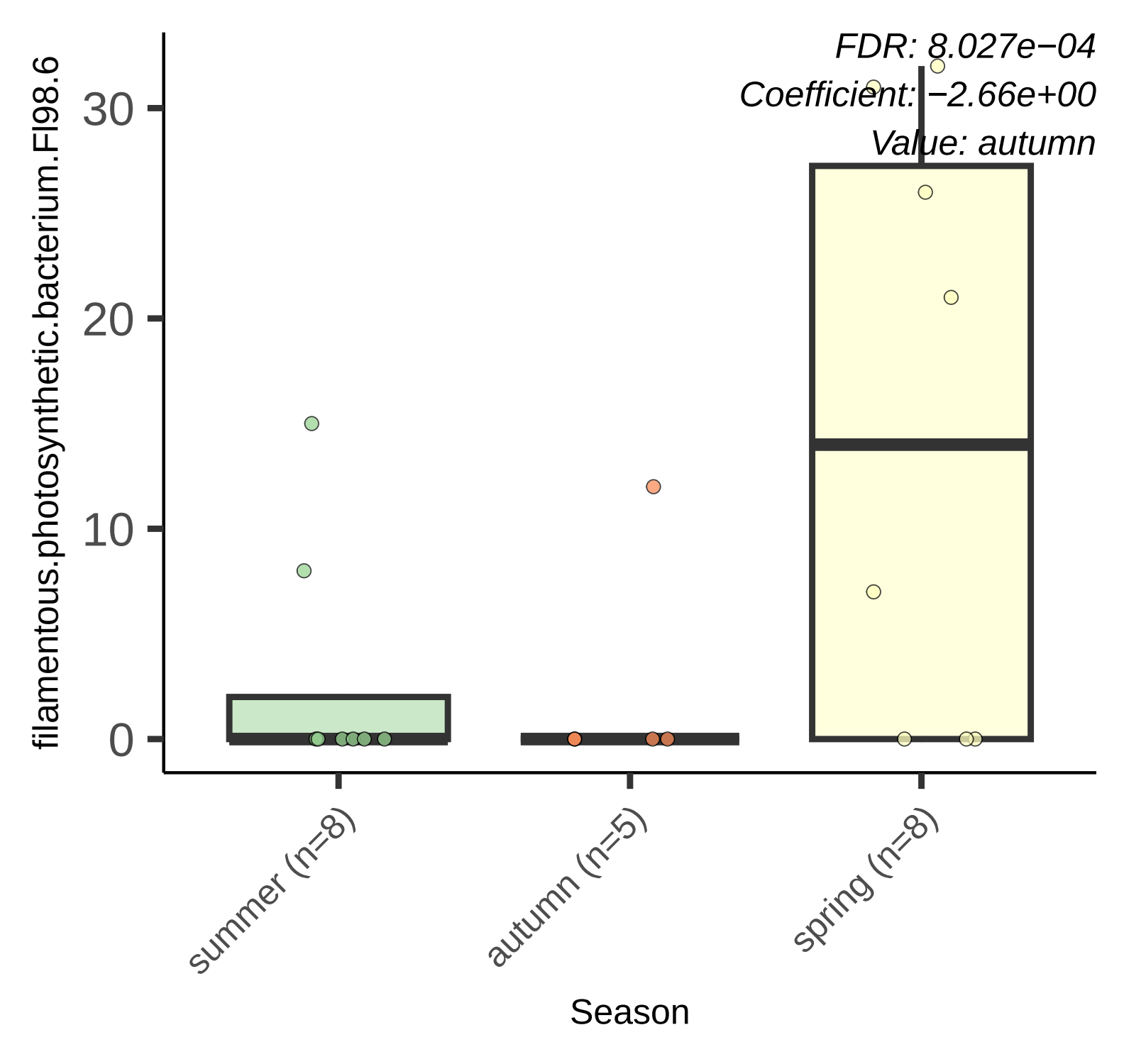

FDR: 7.010e−04
Coefficient: −1.20e+00
Value: autumn
Pelosinus.fermentans
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

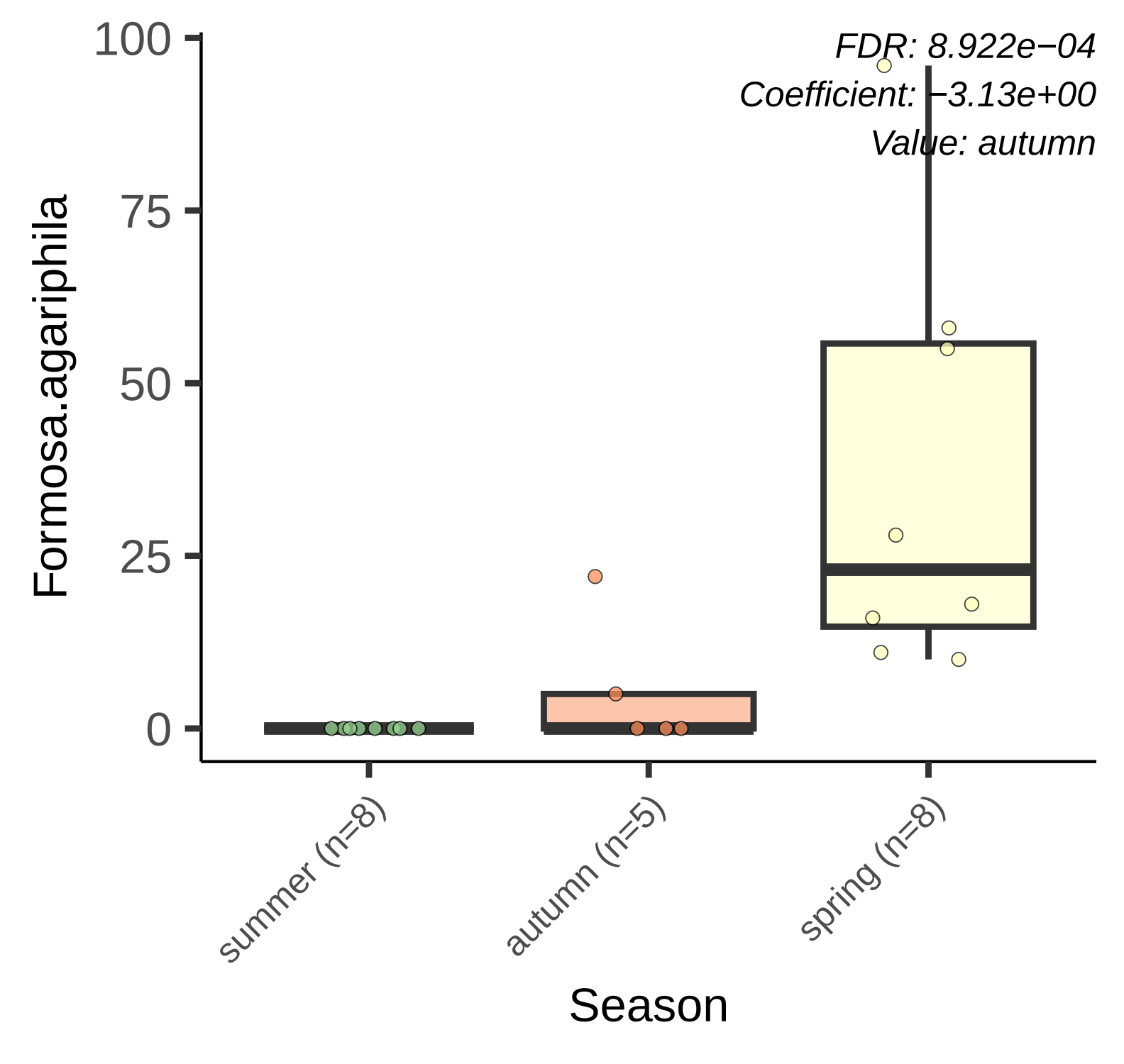

FDR: 7.057e−04
Coefficient: −1.42e+00
Value: autumn
Lutibacter.profundi
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

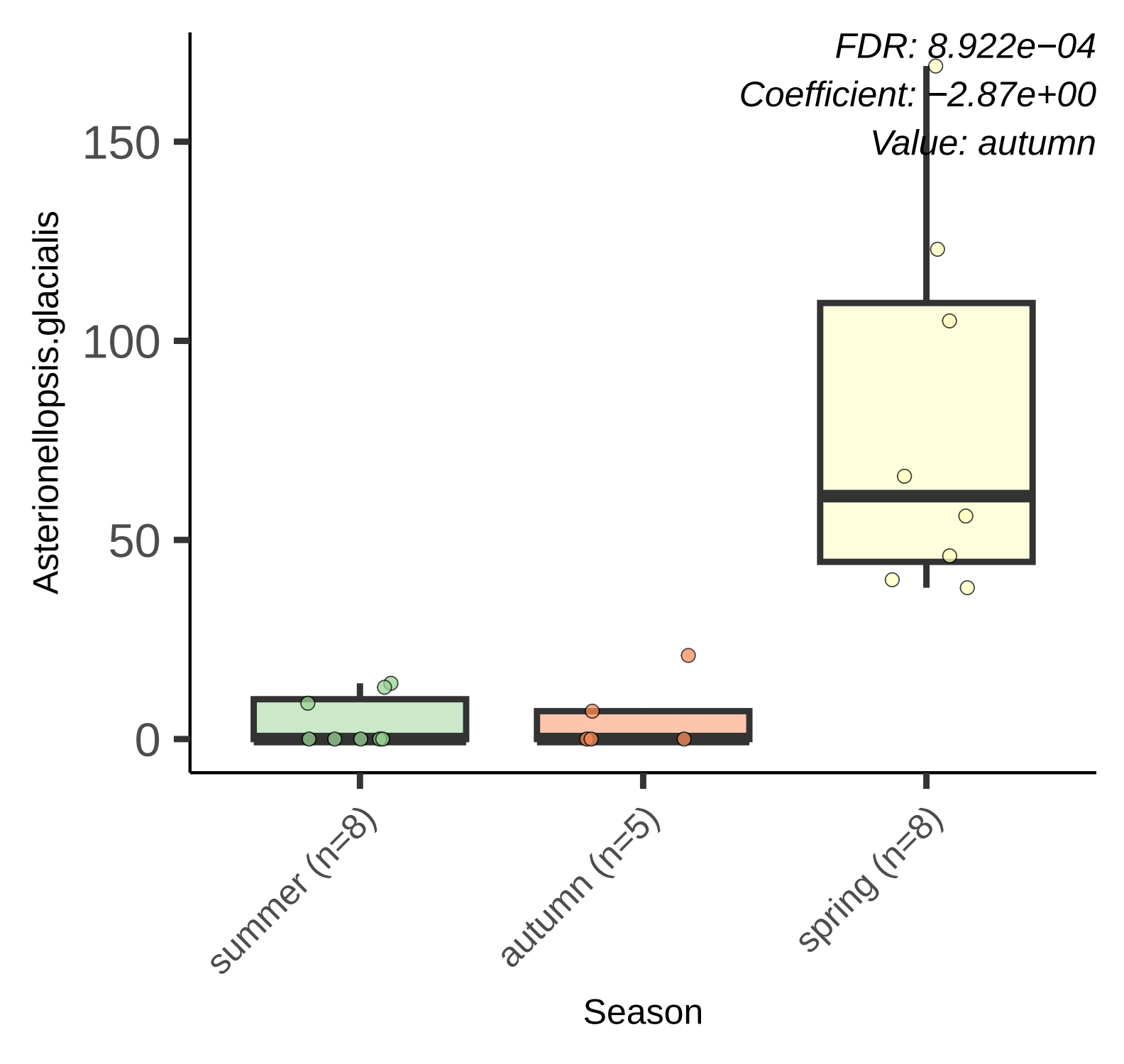

FDR: 7.509e−04
Coefficient: −2.22e+00
Value: autumn
6000
4000
2000
Phaeobacter.inhibens
summer (n=8)
autumn (n=5)
spring (n=8)
Season

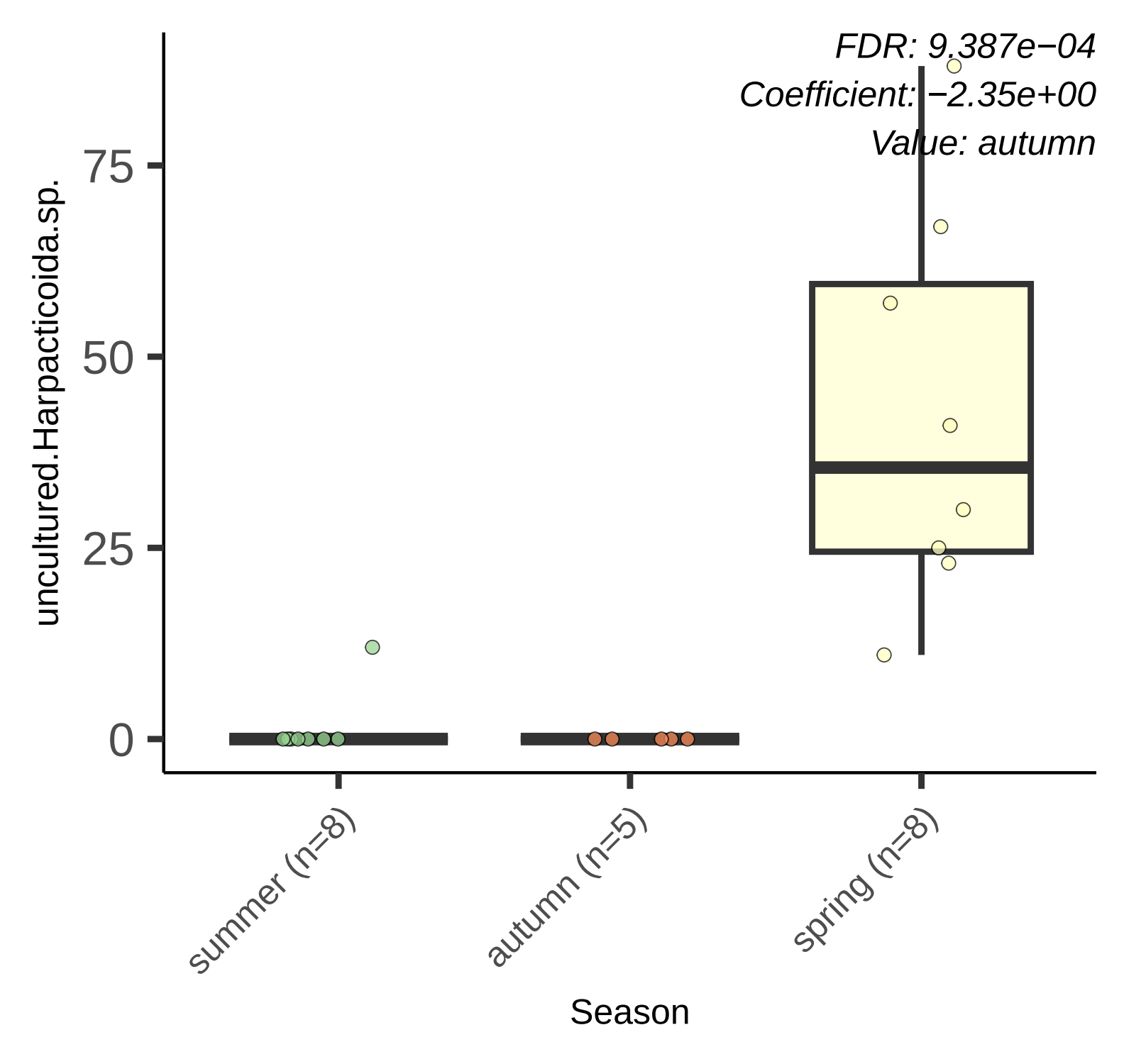

FDR: 7.849e−04
Coefficient: −2.61e+00
Value: autumn
Octadecabacter.arcticus
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

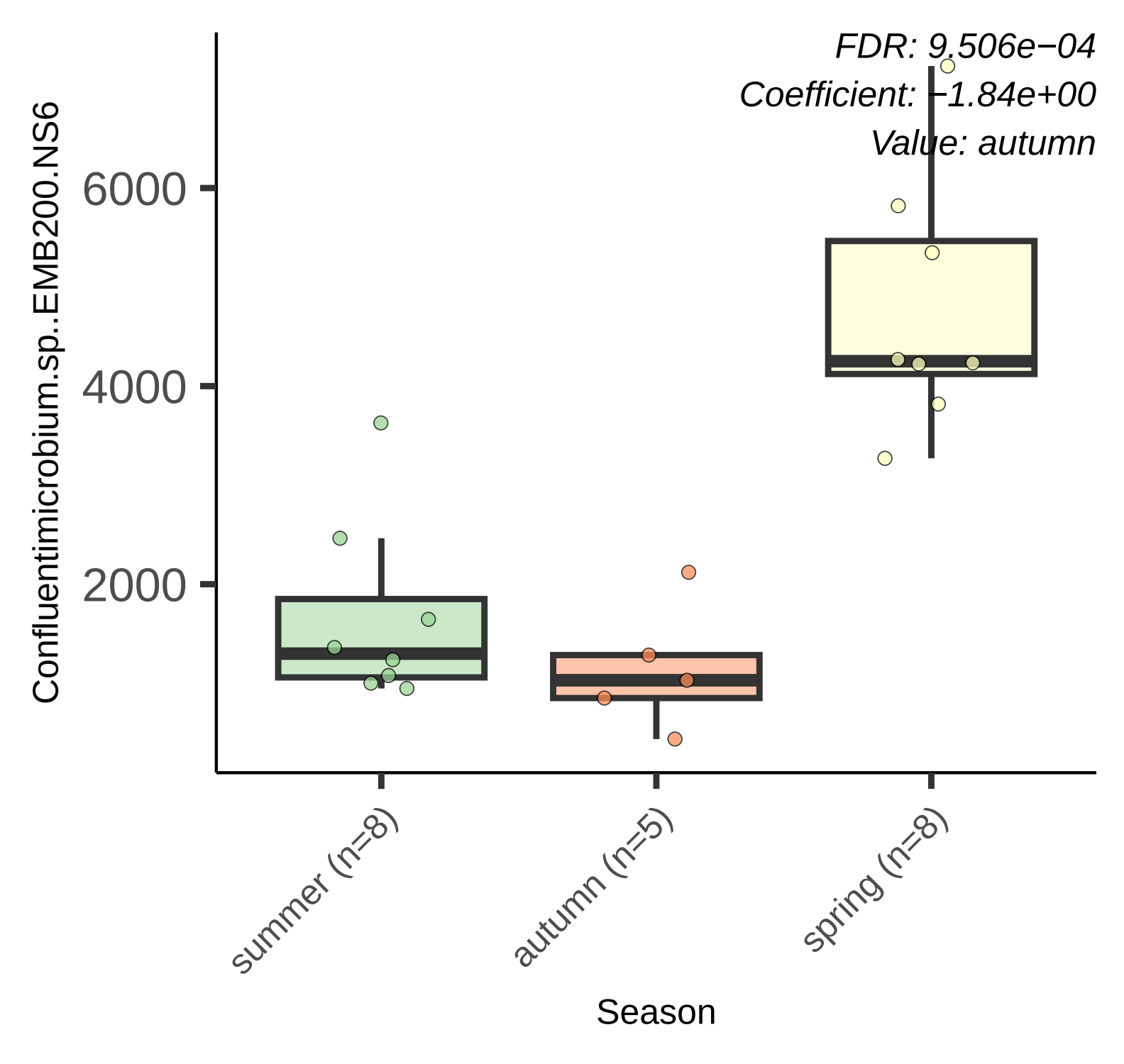

FDR: 7.849e−04
Coefficient: −1.75e+00
Value: autumn
Berkeleya.fennica
400
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

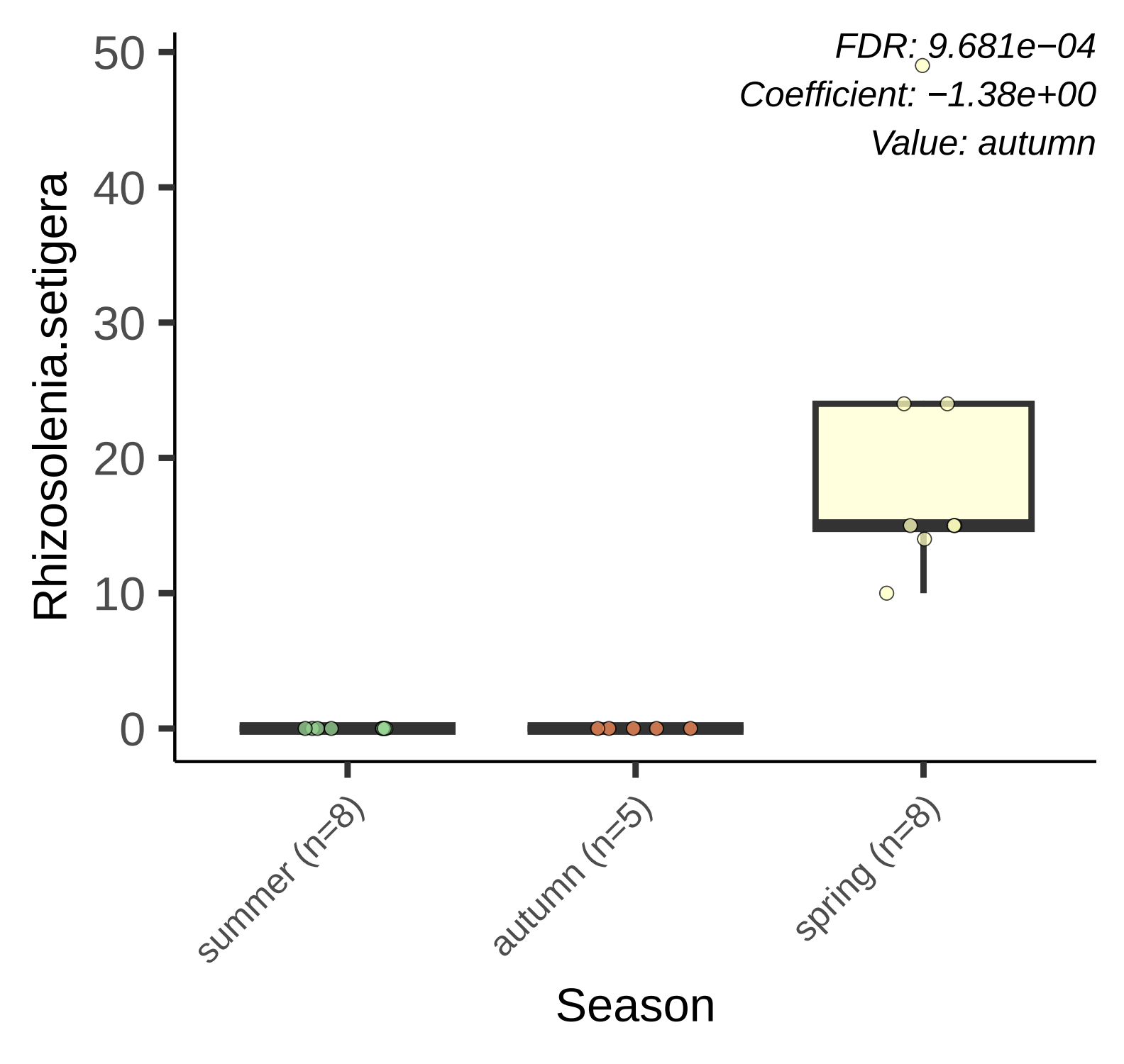

FDR: 8.027e−04
Coefficient: −2.66e+00
Value: autumn
filamentous.photosynthetic.bacterium.FI98.6
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

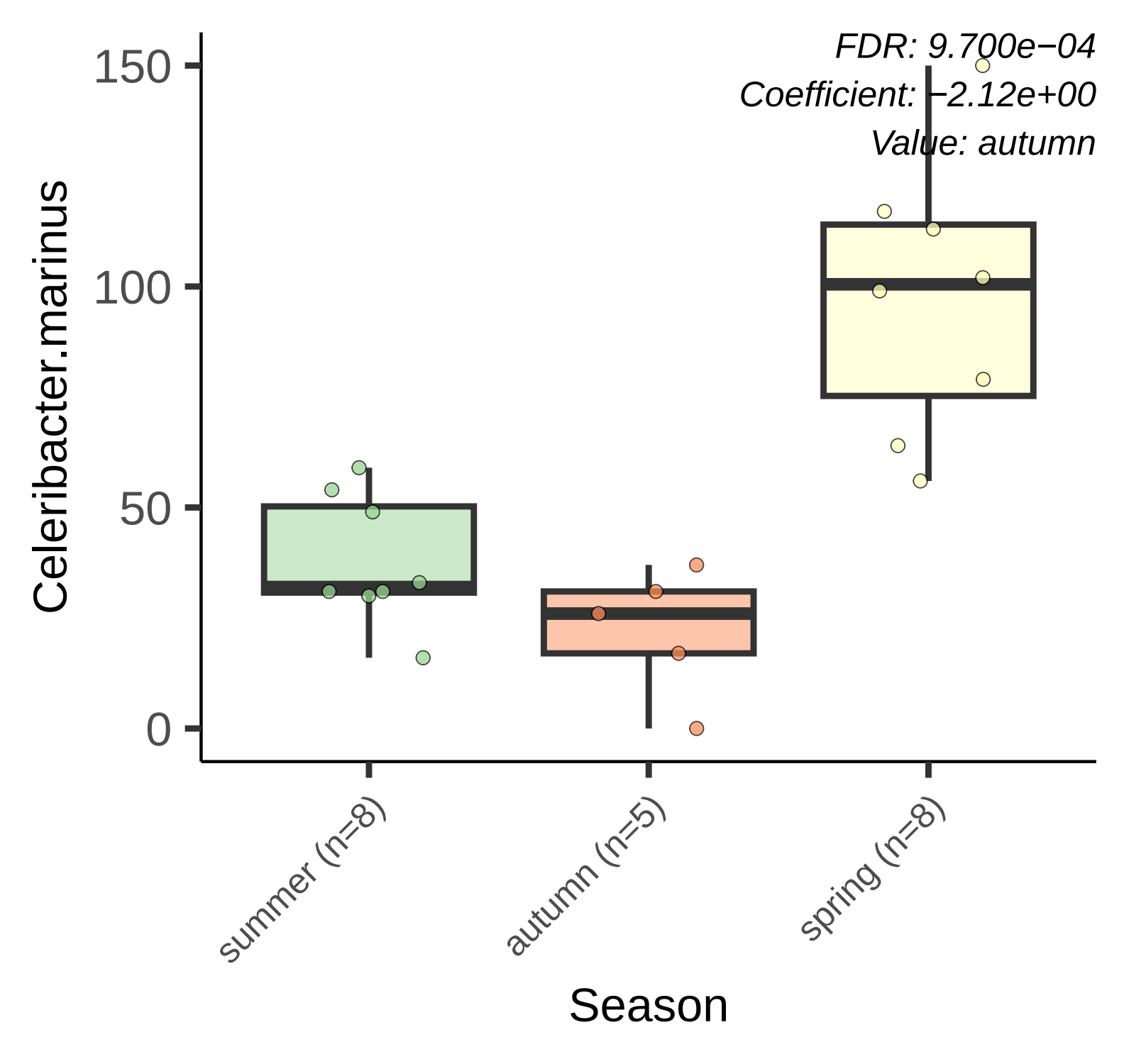

FDR: 8.922e−04
Coefficient: −3.13e+00
Value: autumn
Formosa.agariphila
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

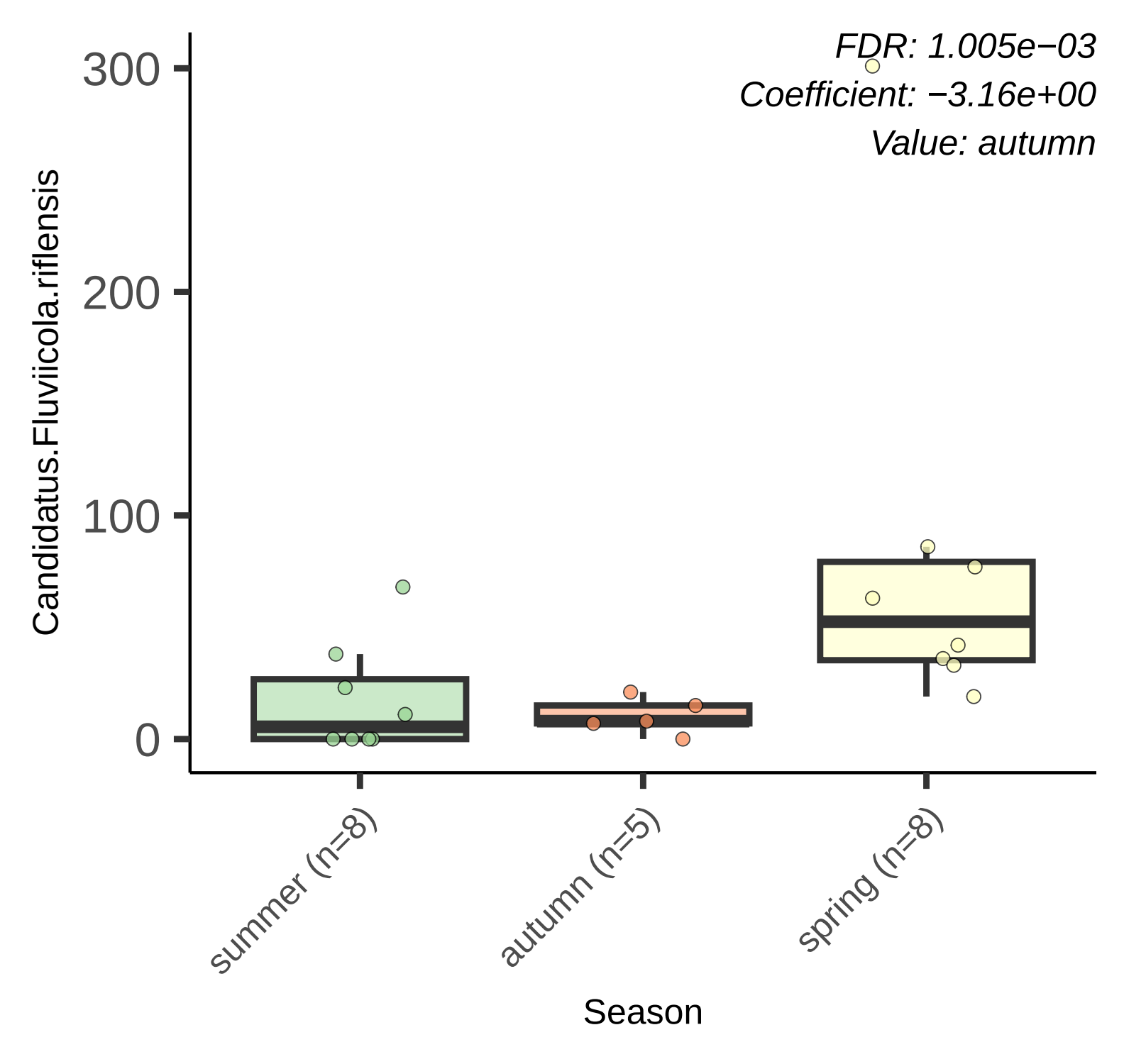

FDR: 8.922e−04
Coefficient: −2.87e+00
Value: autumn
Asterionellopsis.glacialis
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

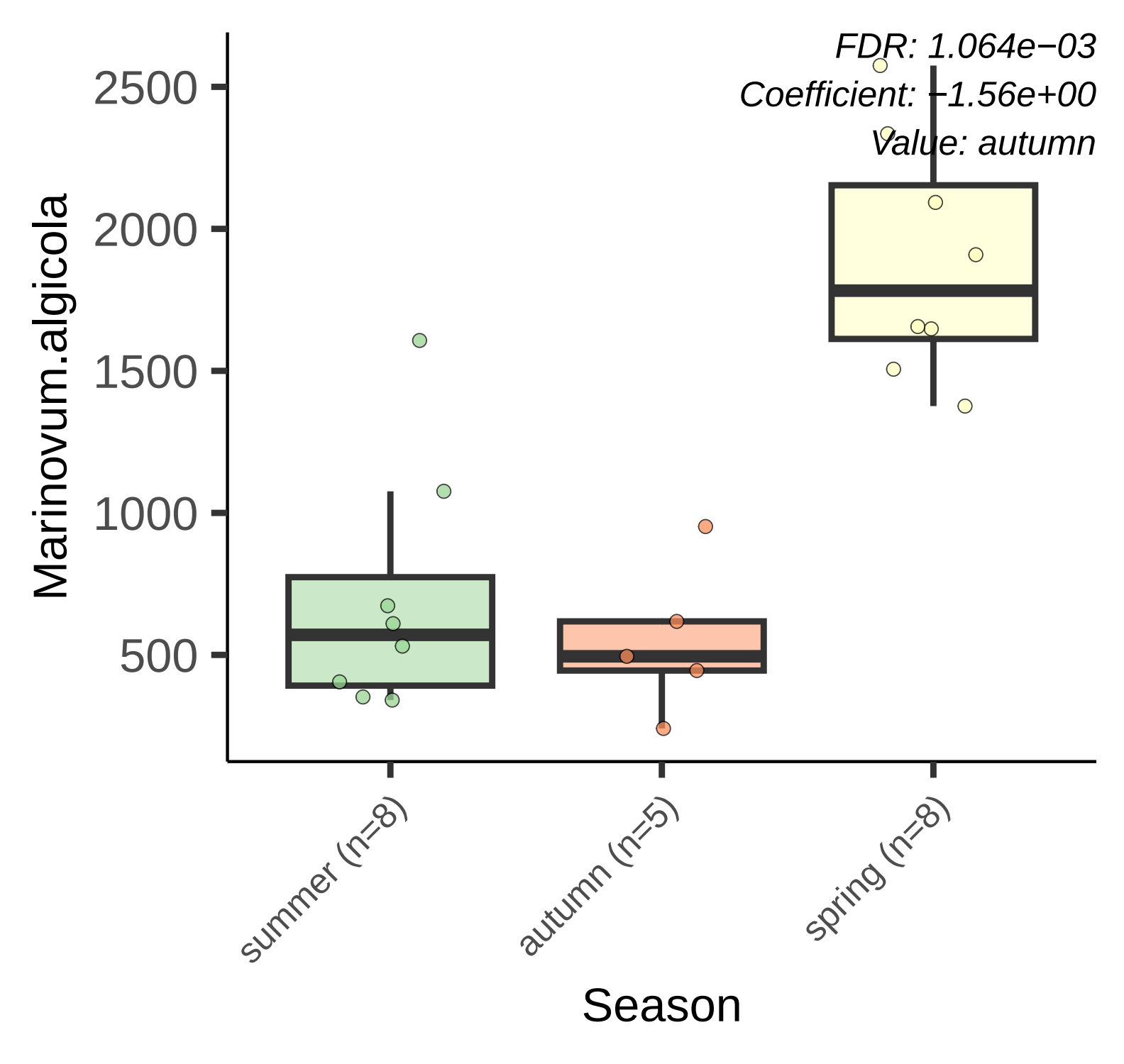

FDR: 9.387e−04
Coefficient: −2.35e+00
Value: autumn
uncultured.Harpacticoida.sp.
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

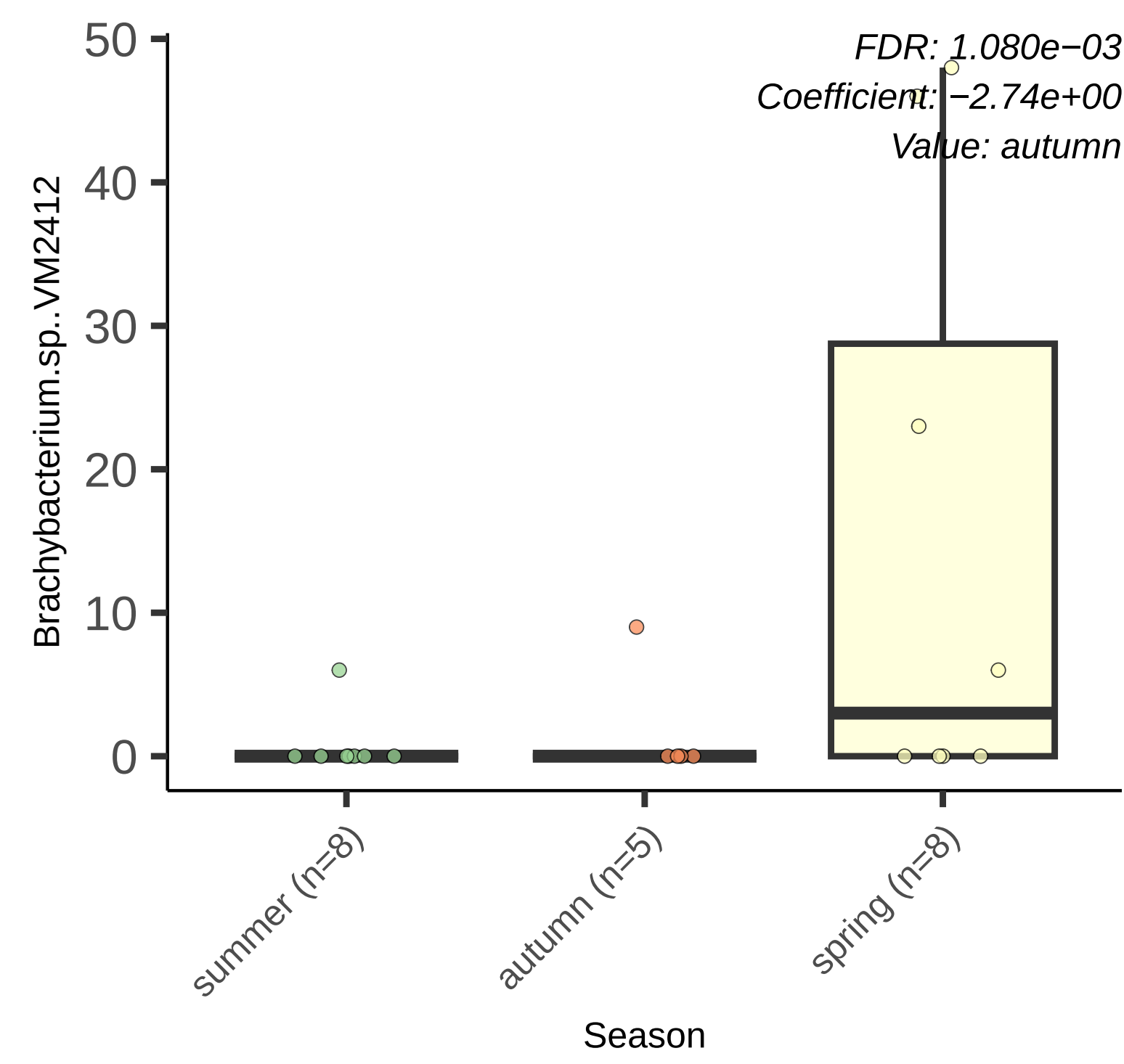

FDR: 9.506e−04
Coefficient: −1.84e+00
Value: autumn
Confluentimicrobium.sp..EMB200.NS6
6000
4000
2000
summer (n=8)
autumn (n=5)
spring (n=8)
Season

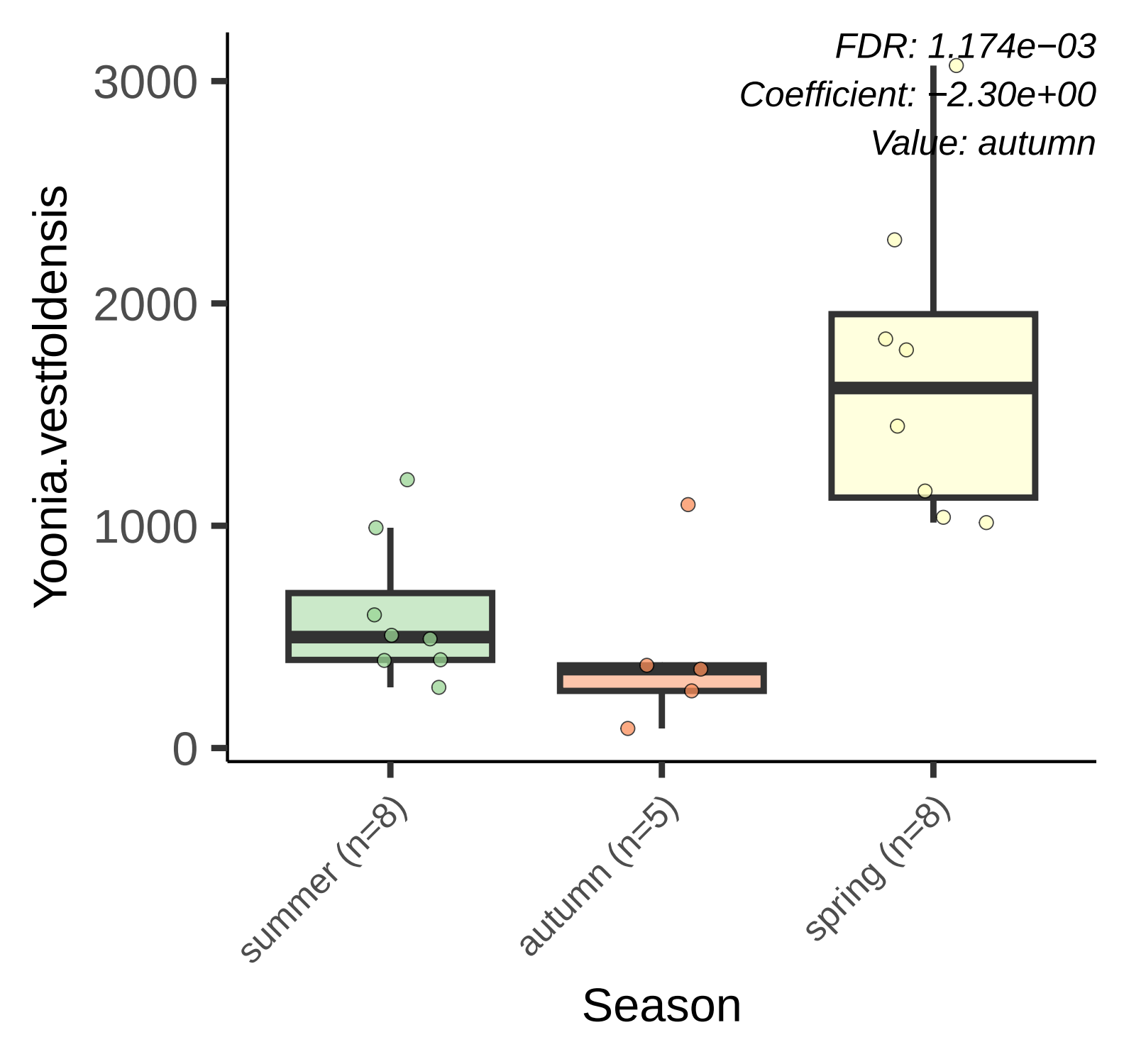

FDR: 9.681e−04
Coefficient: −1.38e+00
Value: autumn
Rhizosolenia.setigera
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

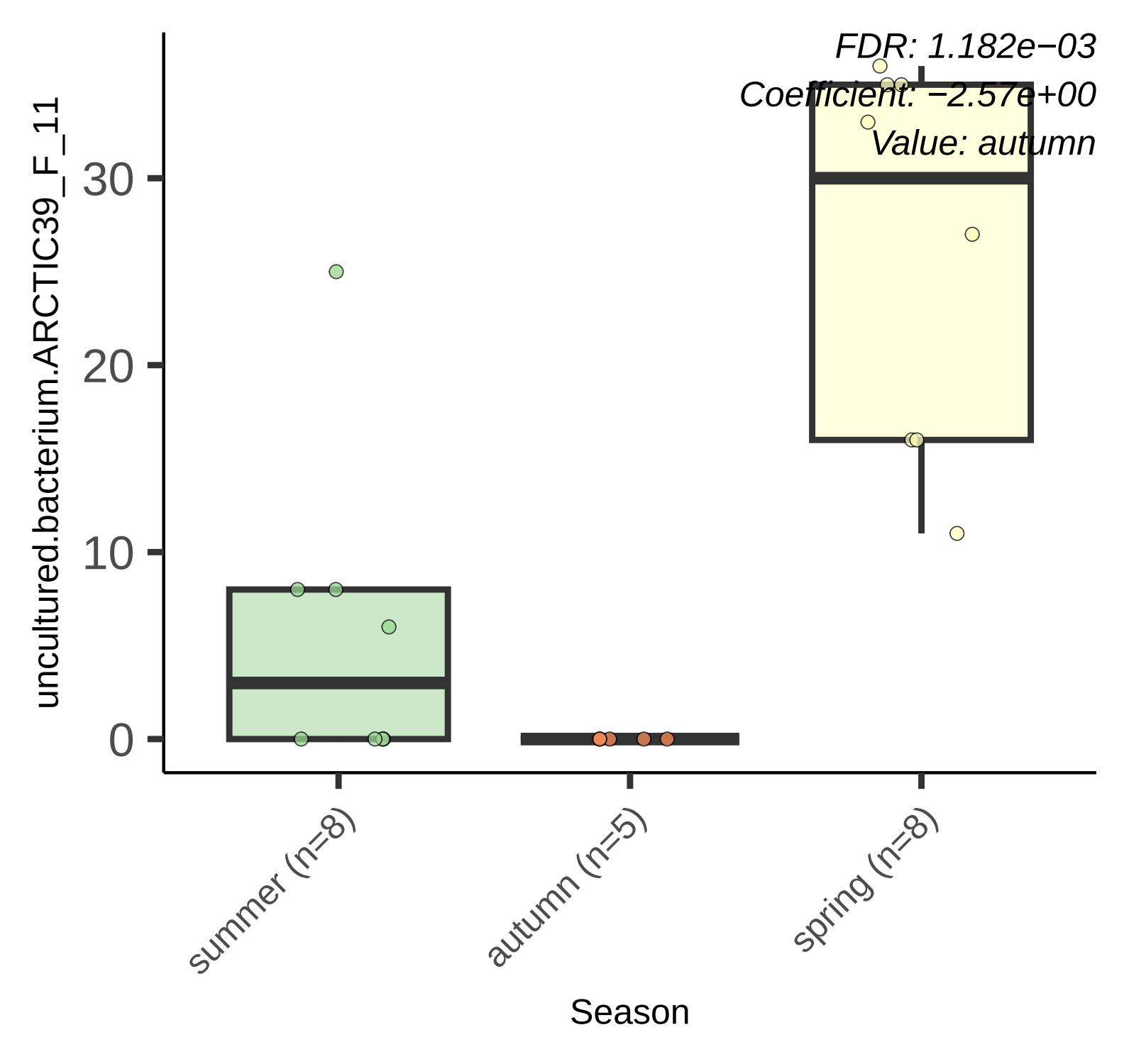

FDR: 9.700e−04
Coefficient: −2.12e+00
Value: autumn
Celeribacter.marinus
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

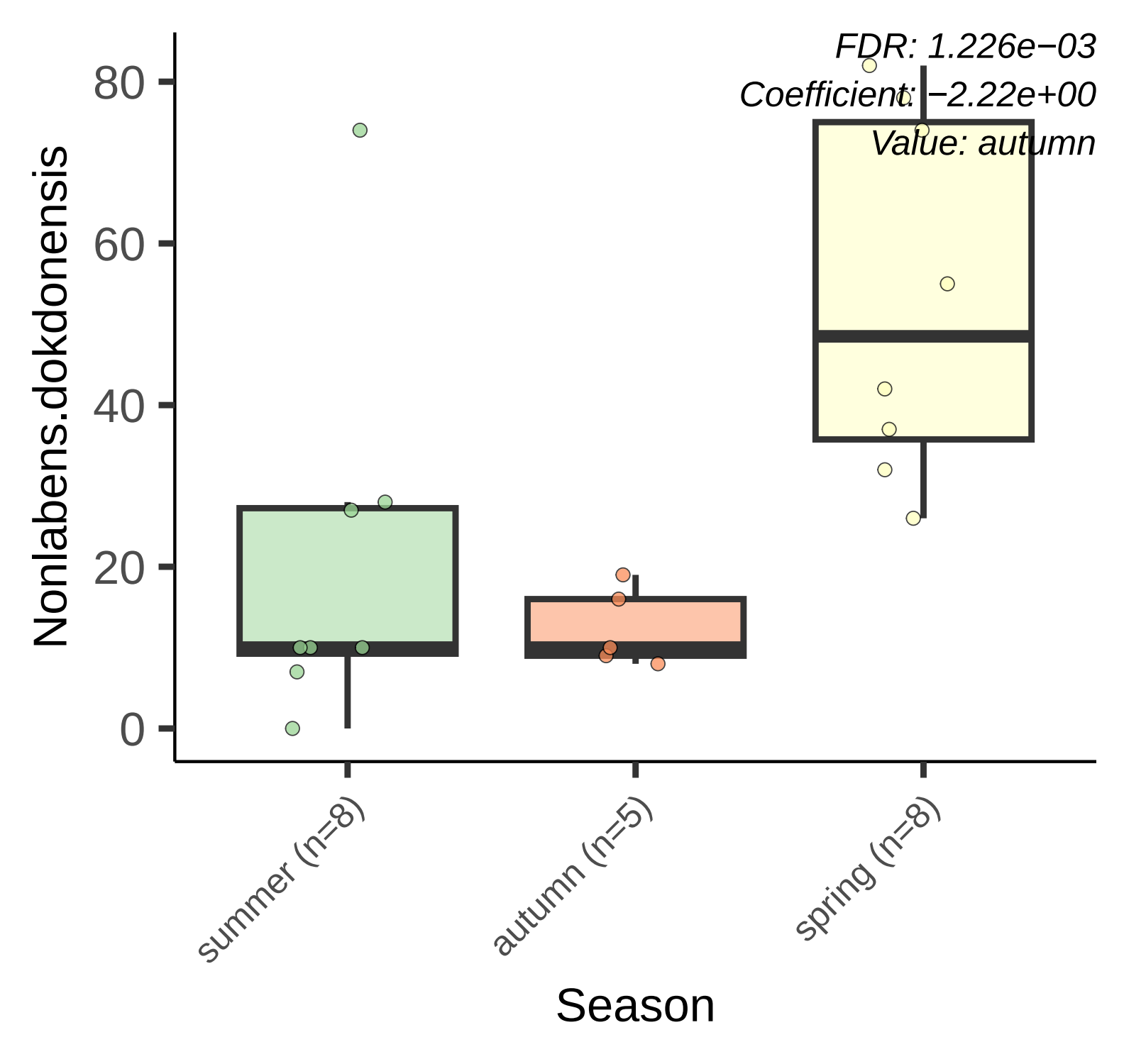

FDR: 1.005e−03
Coefficient: −3.16e+00
Value: autumn
300
200
100
0
Candidatus.Fluviicola.riflensis
summer (n=8)
autumn (n=5)
spring (n=8)
Season

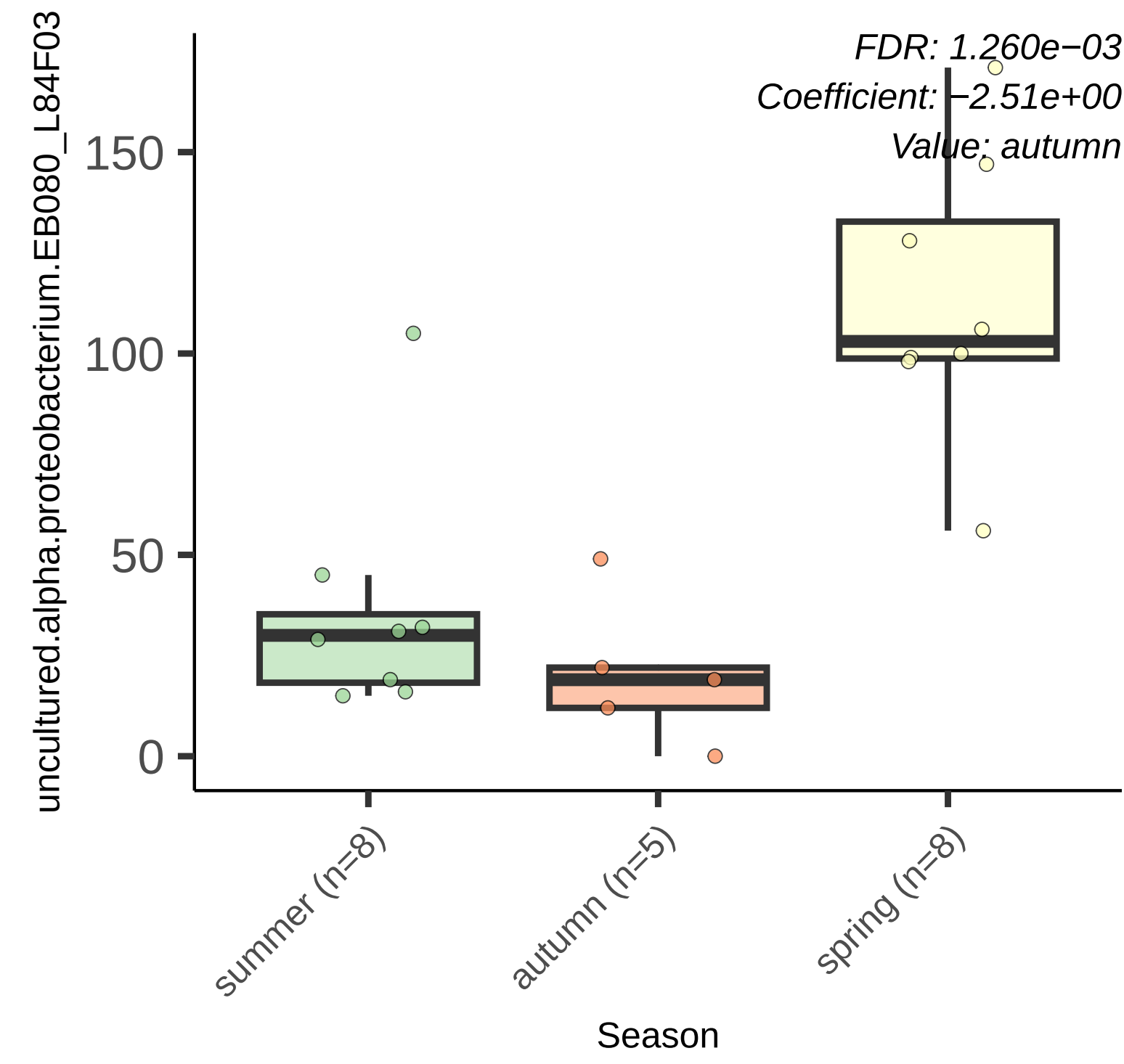

FDR: 1.064e−03
Coefficient: −1.56e+00
Value: autumn
2500
2000
1500
1000
500
Marinovum.algicola
summer (n=8)
autumn (n=5)
spring (n=8)
Season

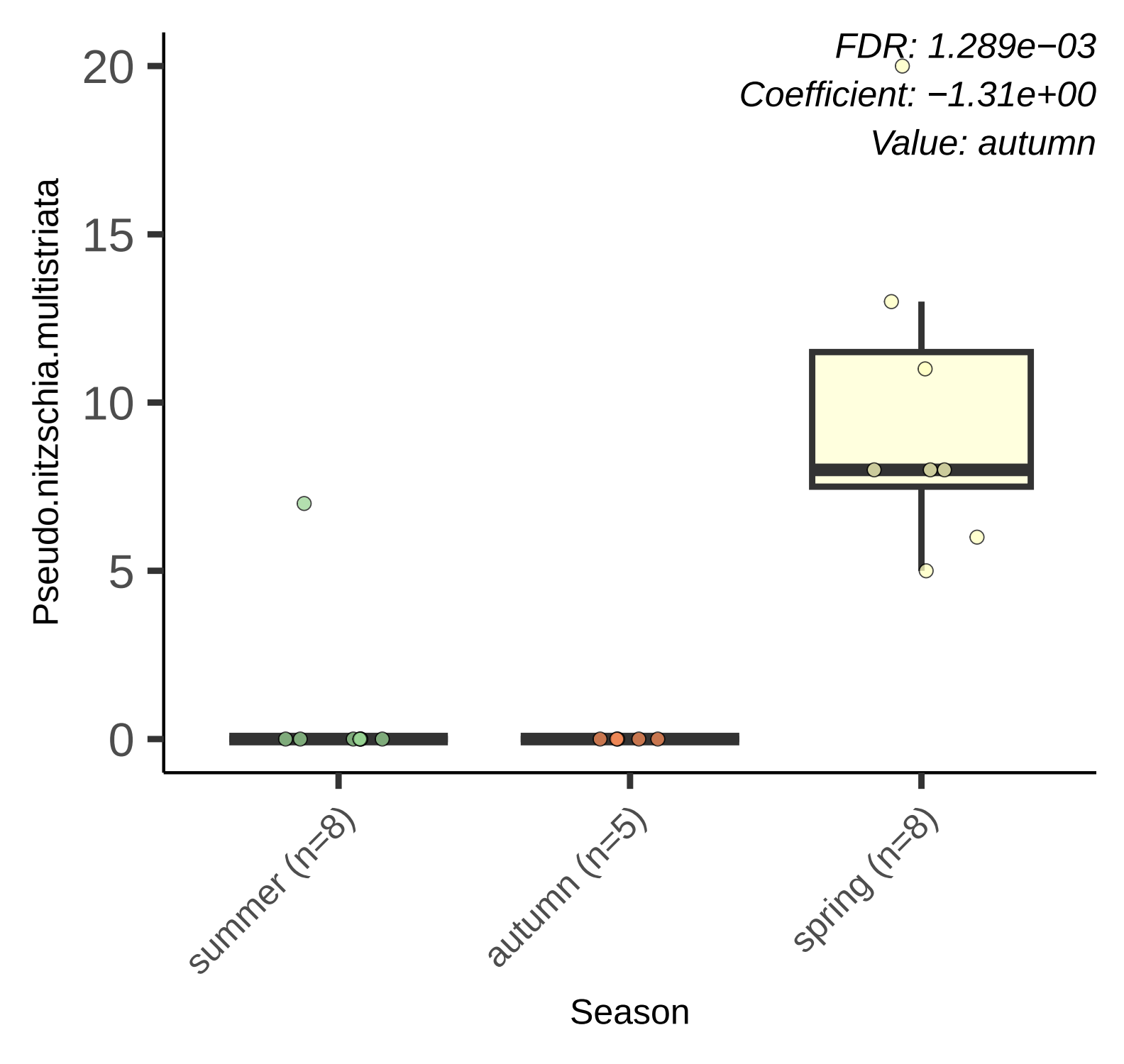

FDR: 1.080e−03
Coefficient: −2.74e+00
Value: autumn
Brachybacterium.sp..VM2412
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

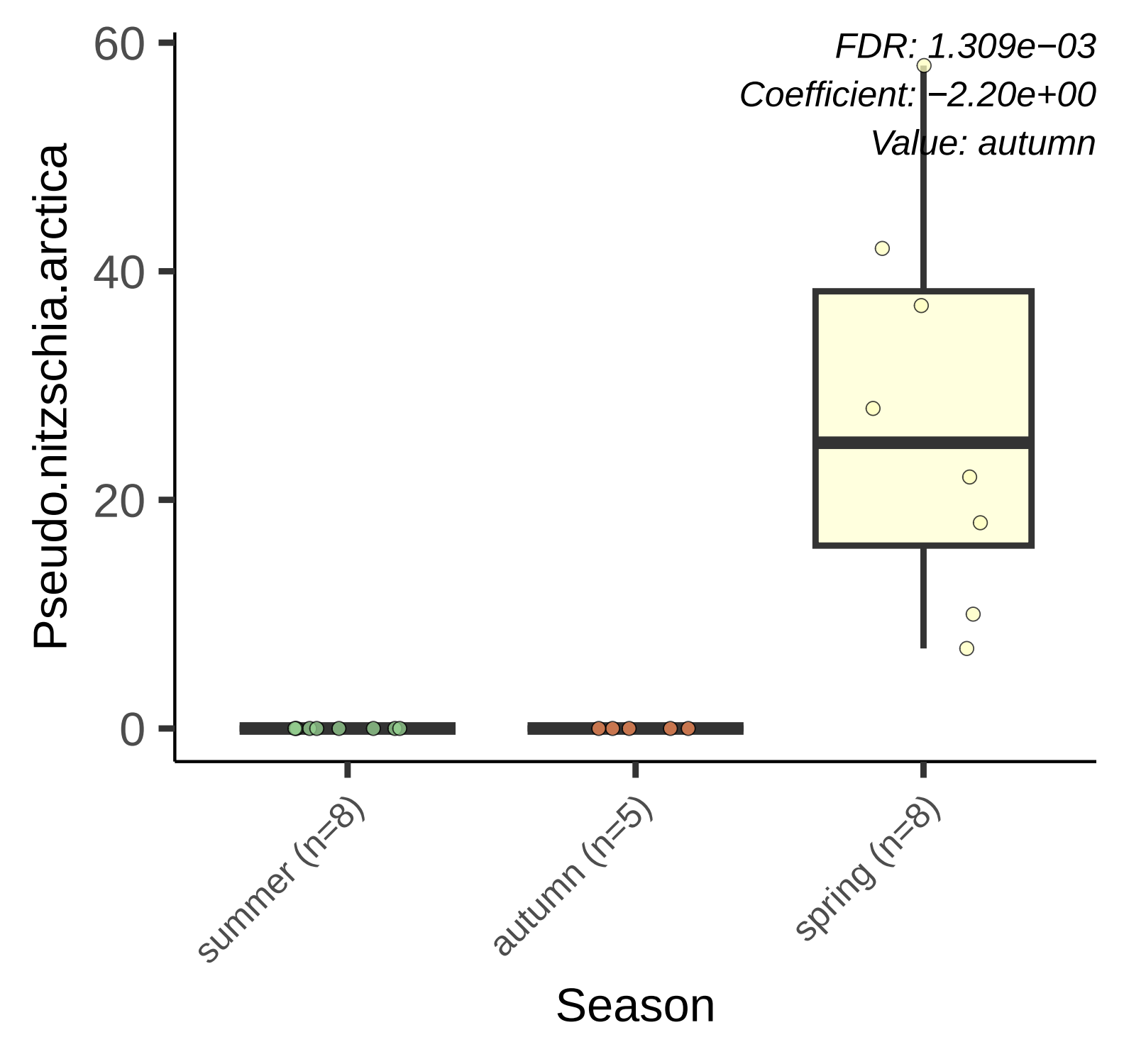

FDR: 1.174e−03
Coefficient: −2.30e+00
Value: autumn
Yoonia.vestfoldensis
3000
2000
1000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

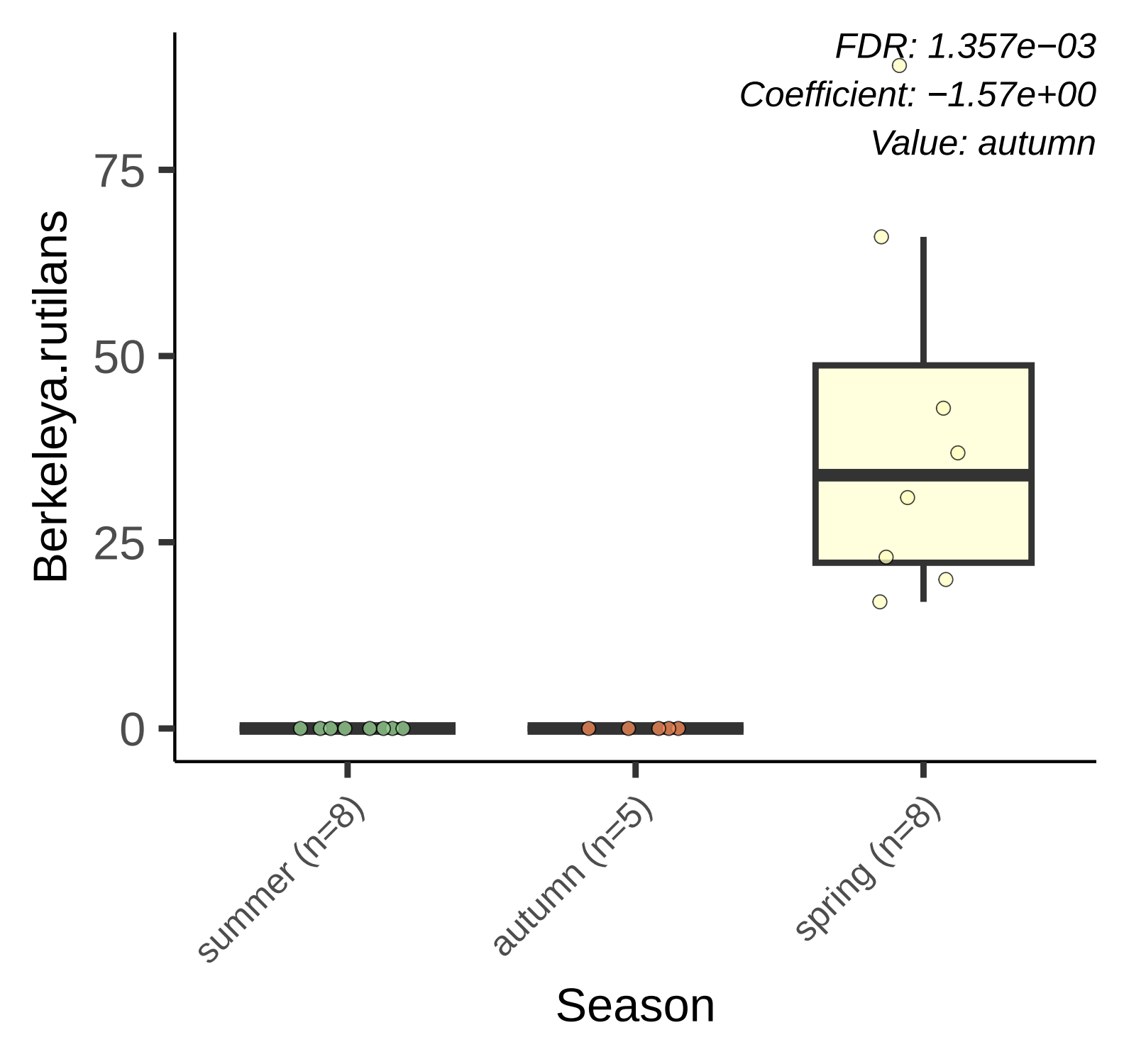

FDR: 1.182e−03
Coefficient: −2.57e+00
Value: autumn
uncultured.bacterium.ARCTIC39_F_11
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

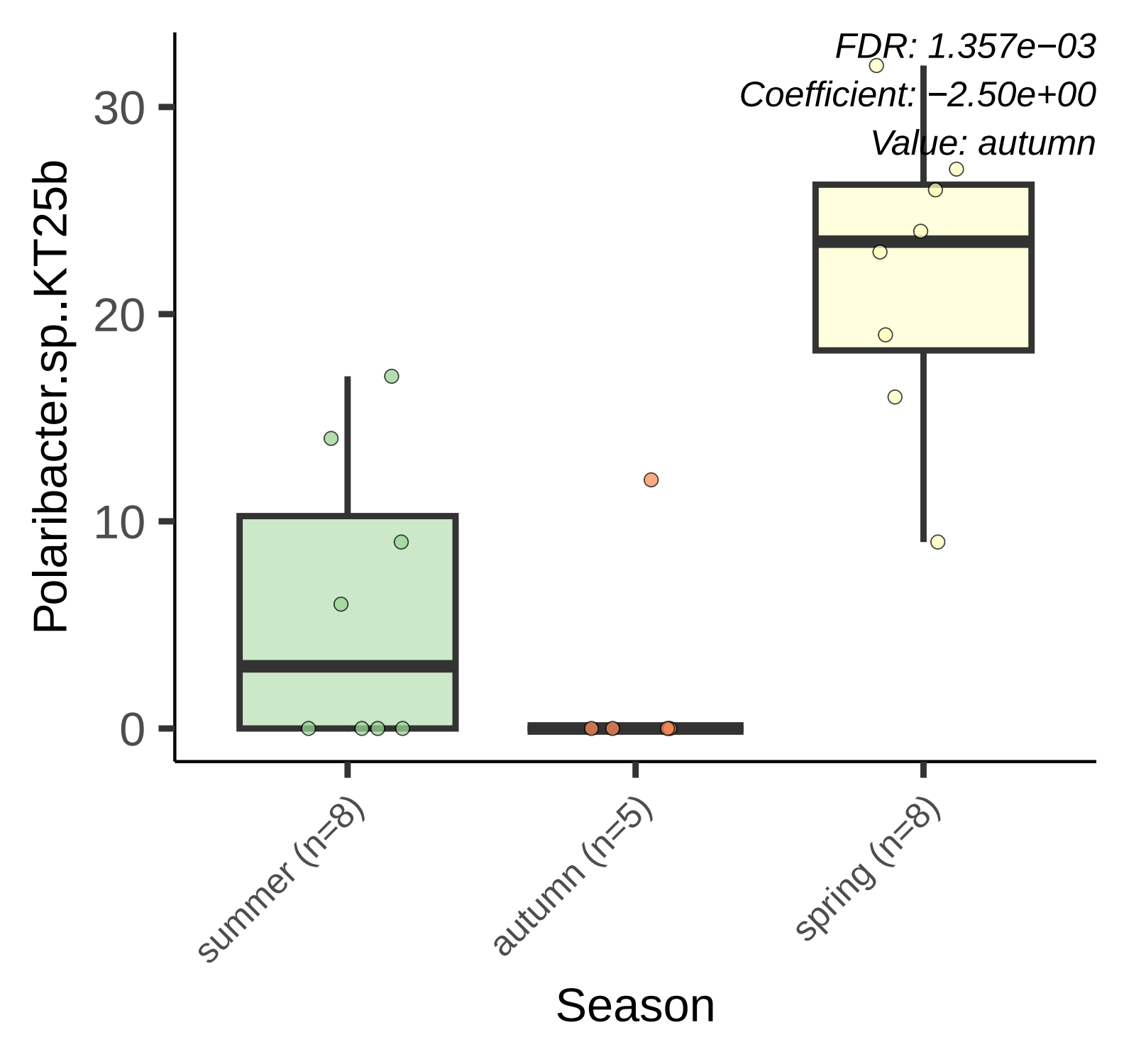

FDR: 1.226e−03
Coefficient: −2.22e+00
Value: autumn
Nonlabens.dokdonensis
80
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

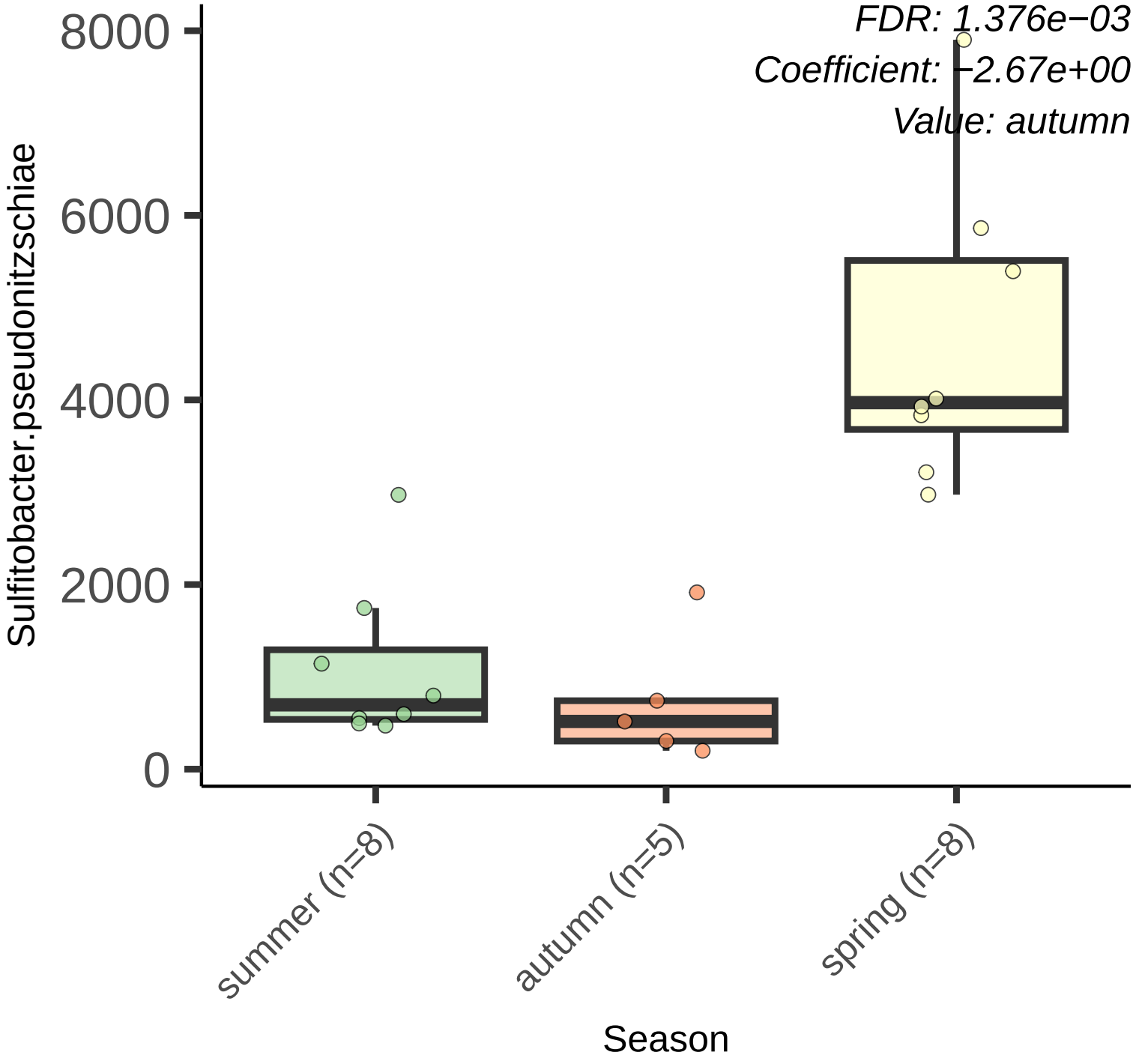

FDR: 1.260e−03
Coefficient: −2.51e+00
Value: autumn
uncultured.alpha.proteobacterium.EB080_L84F03
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

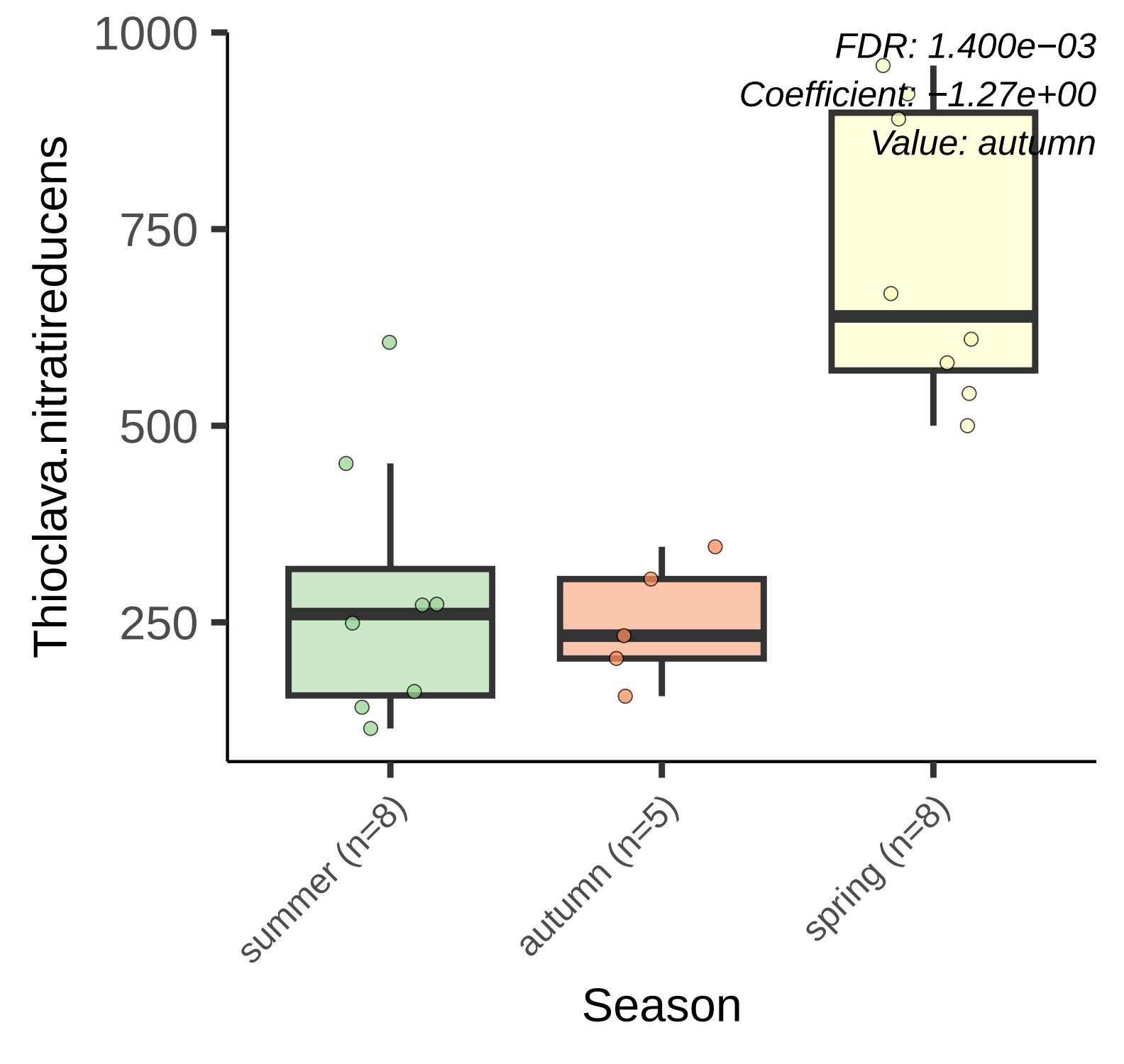

FDR: 1.289e−03
Coefficient: −1.31e+00
Value: autumn
Pseudo.nitzschia.multistriata
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

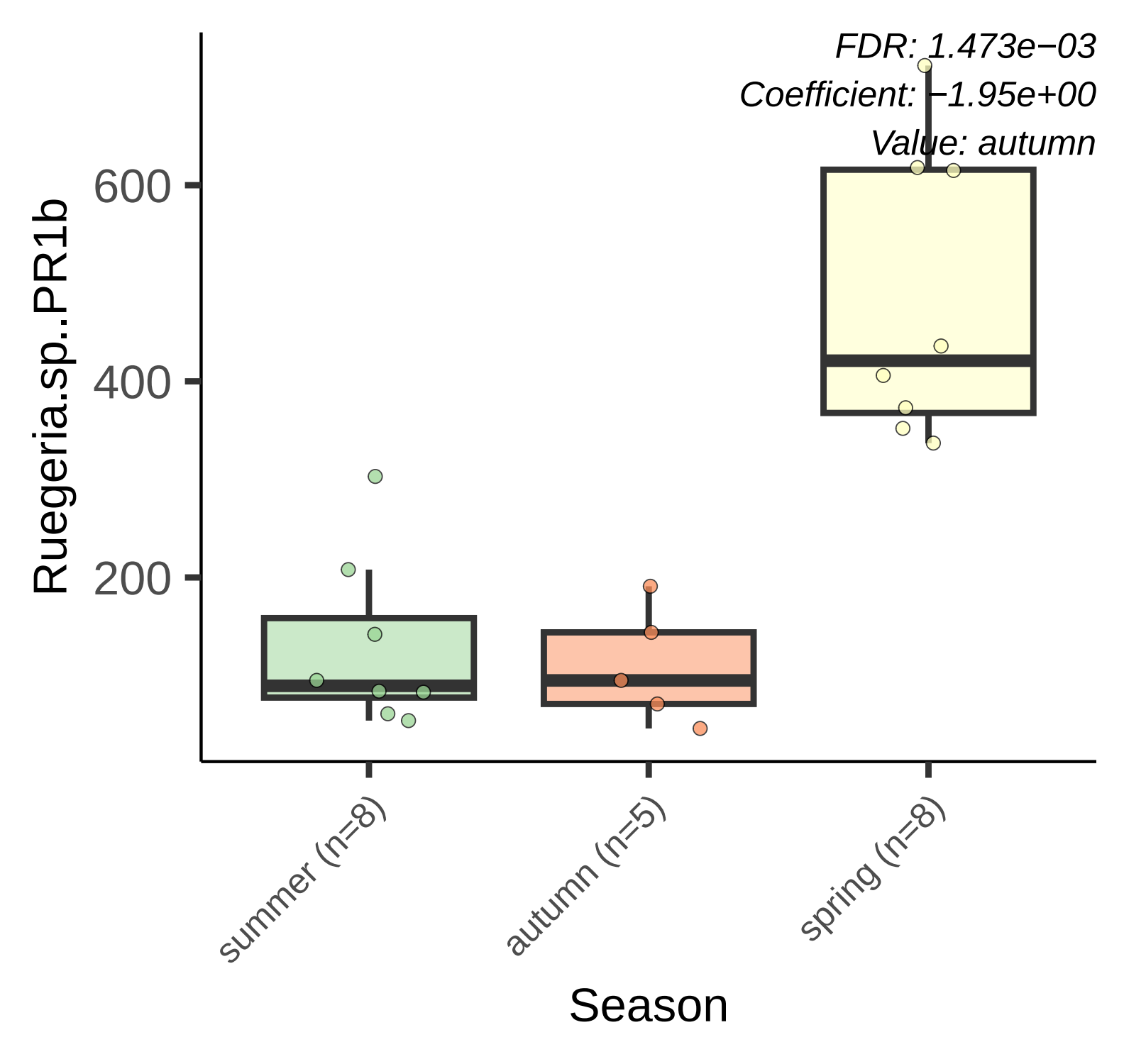

FDR: 1.309e−03
Coefficient: −2.20e+00
Value: autumn
Pseudo.nitzschia.arctica
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

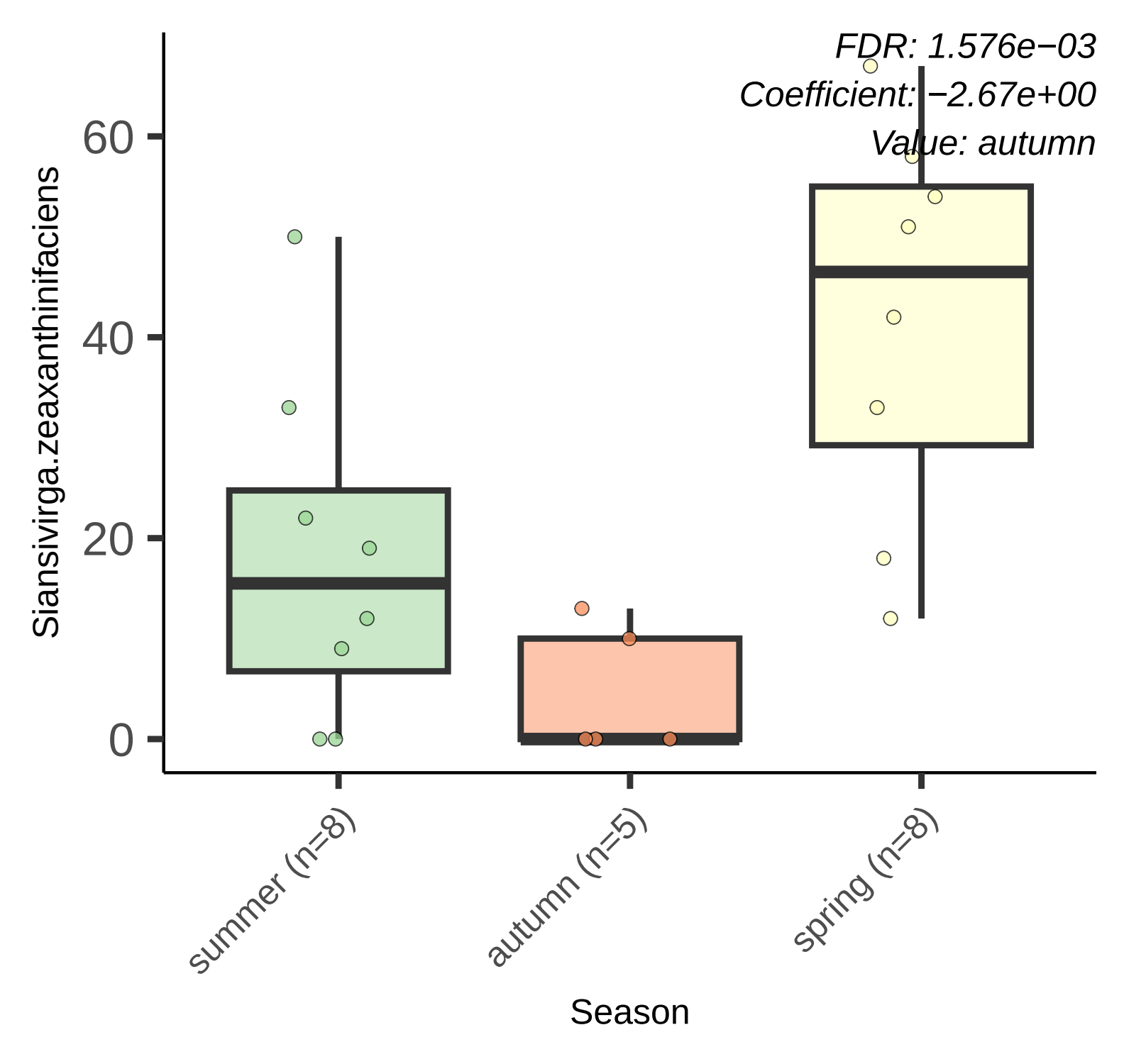

FDR: 1.357e−03
Coefficient: −1.57e+00
Value: autumn
Berkeleya.rutilans
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

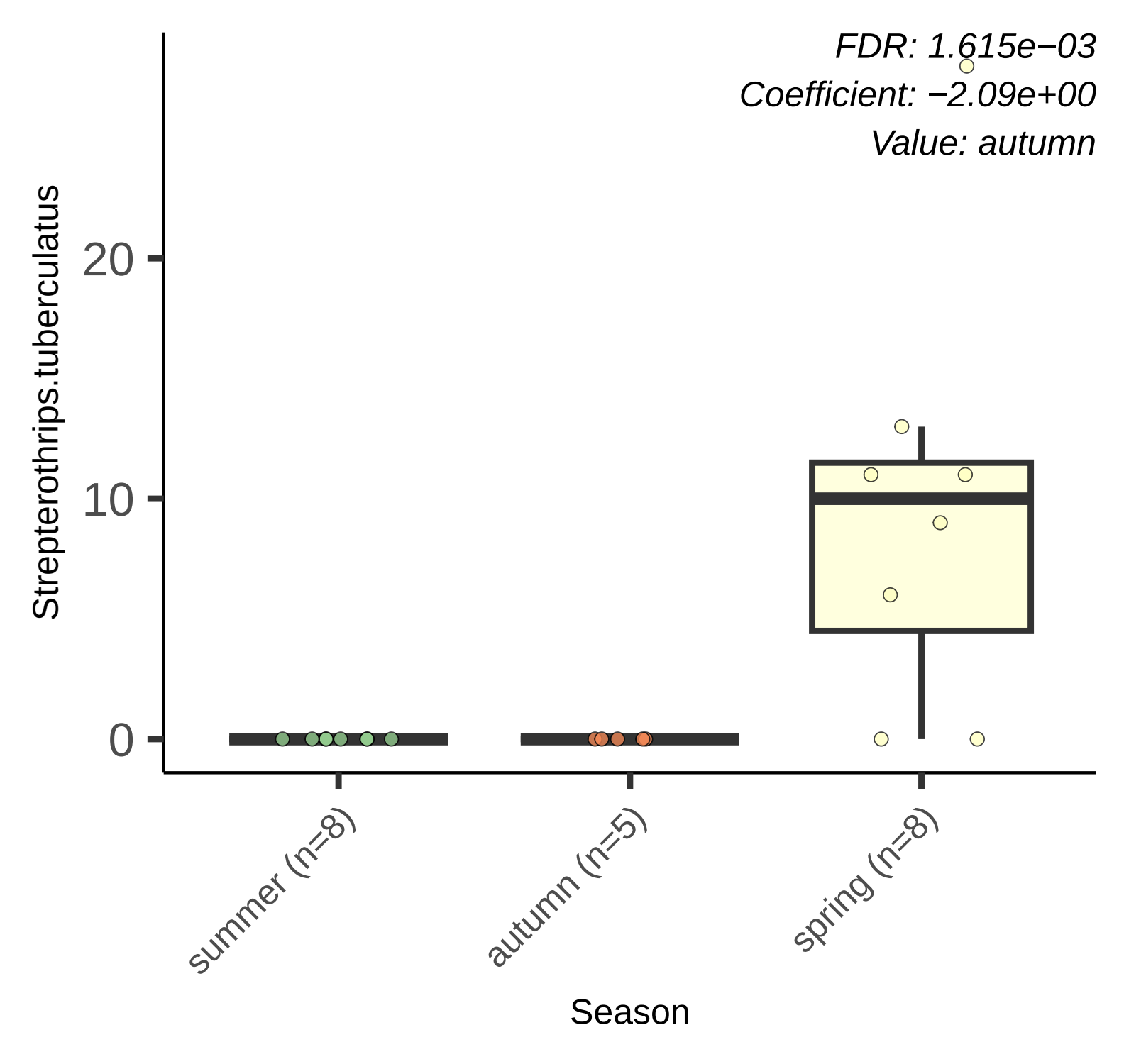

FDR: 1.357e−03
Coefficient: −2.50e+00
Value: autumn
Polaribacter.sp..KT25b
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

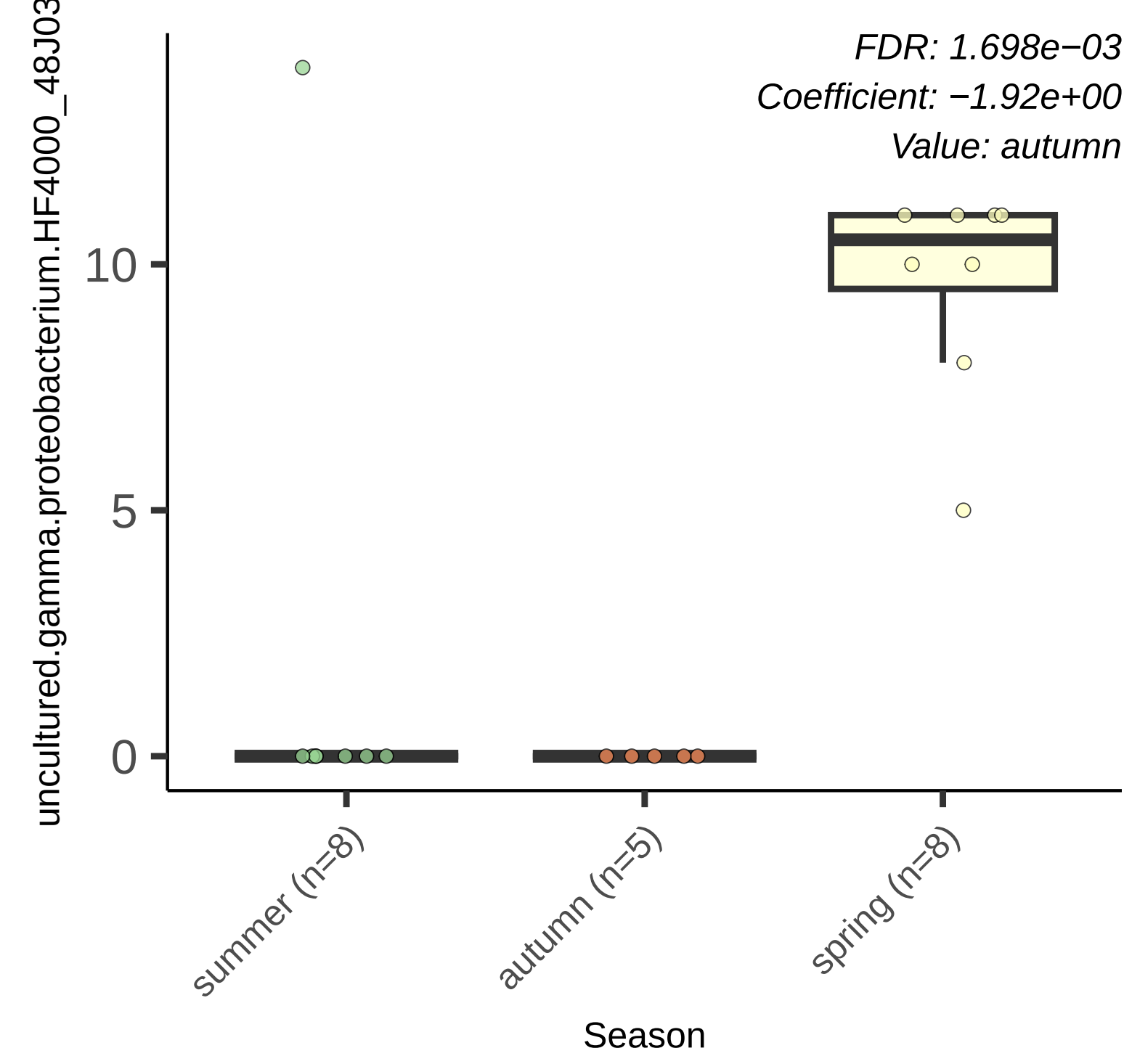

FDR: 1.376e−03
Coefficient: −2.67e+00
Value: autumn
Sulfitobacter.pseudonitzschiae
8000
6000
4000
2000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

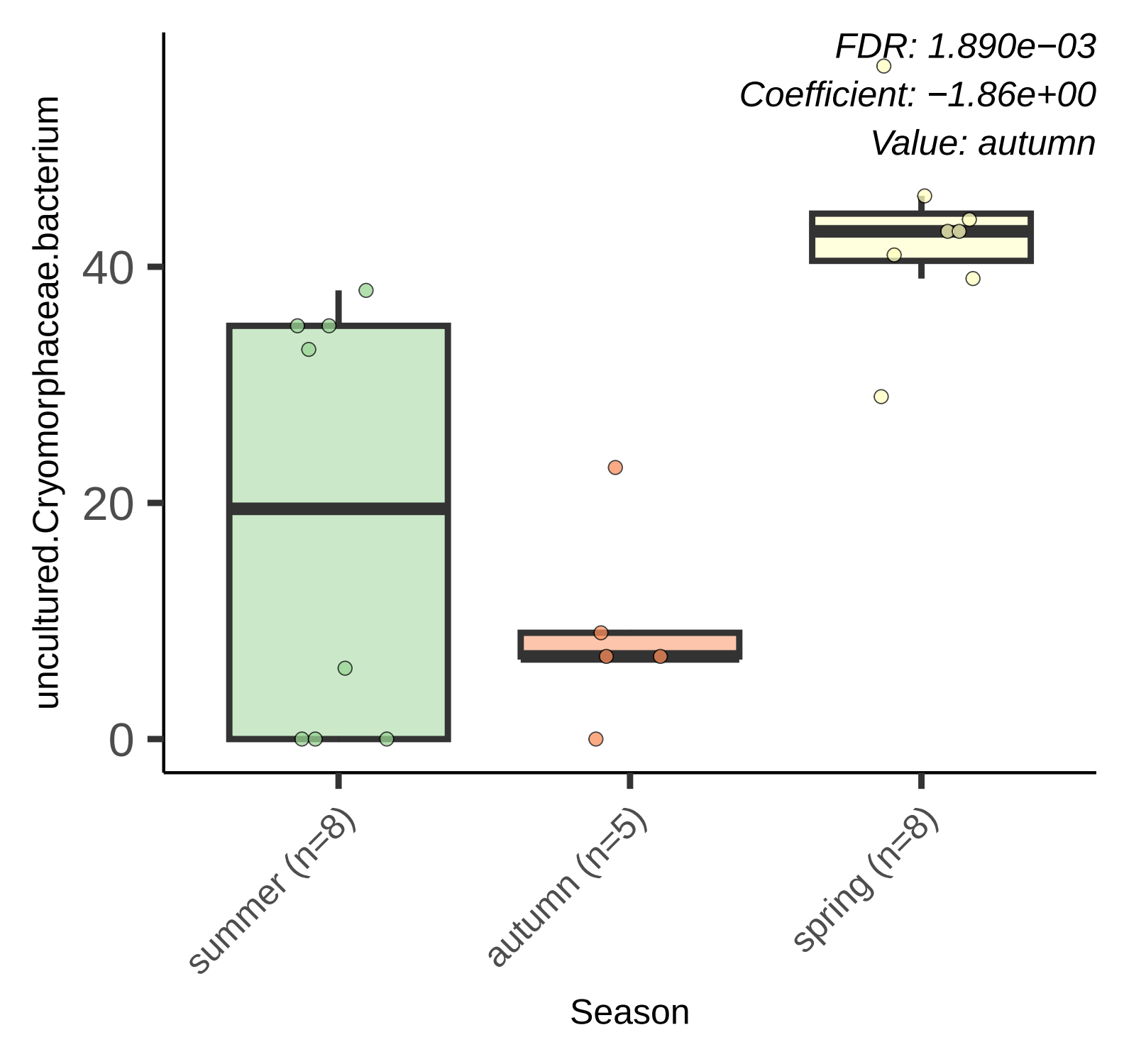

FDR: 1.400e−03
Coefficient: −1.27e+00
Value: autumn
1000
750
500
250
Thioclava.nitratireducens
summer (n=8)
autumn (n=5)
spring (n=8)
Season

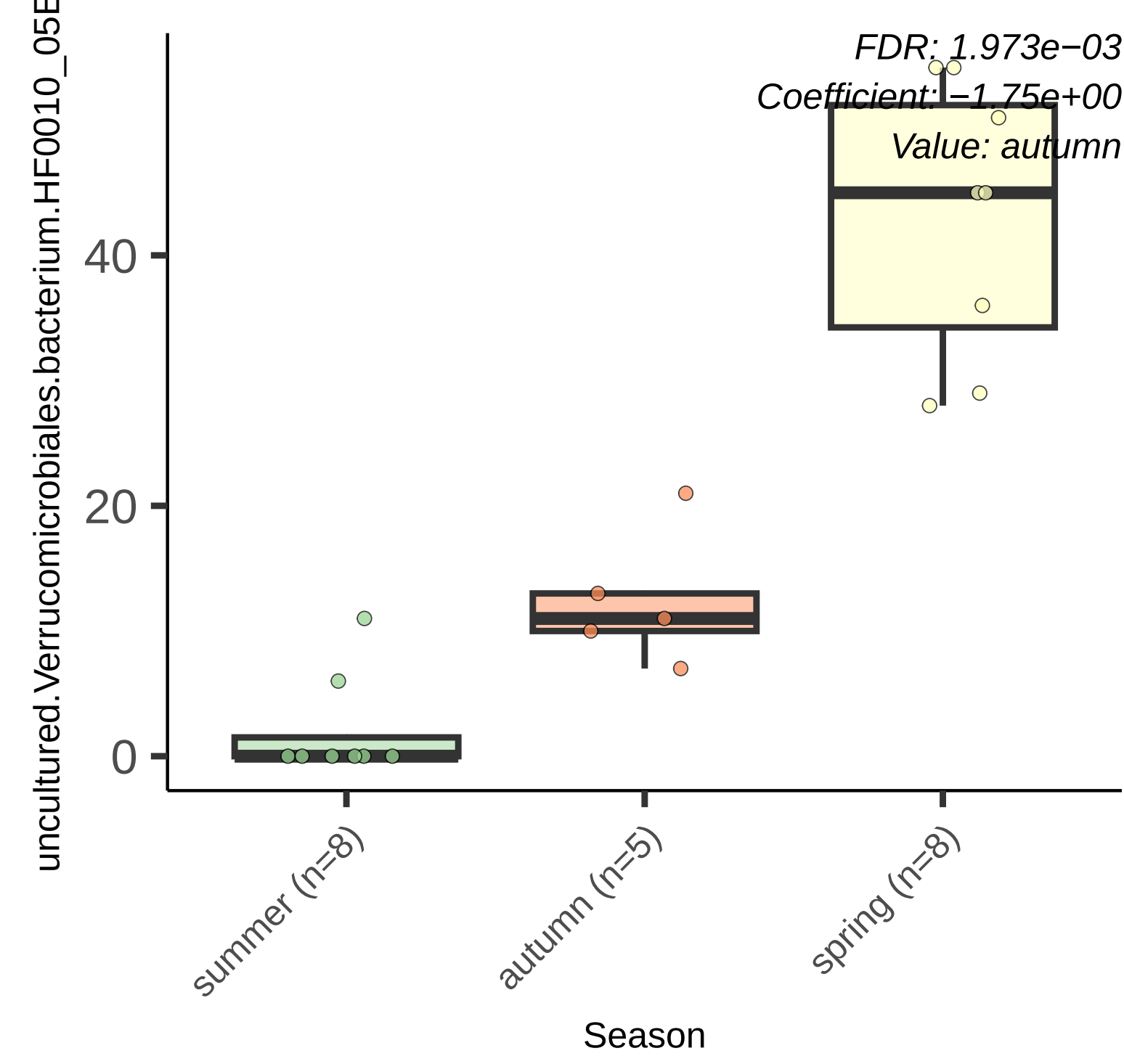

FDR: 1.473e−03
Coefficient: −1.95e+00
Value: autumn
Ruegeria.sp..PR1b
600
400
200
summer (n=8)
autumn (n=5)
spring (n=8)
Season

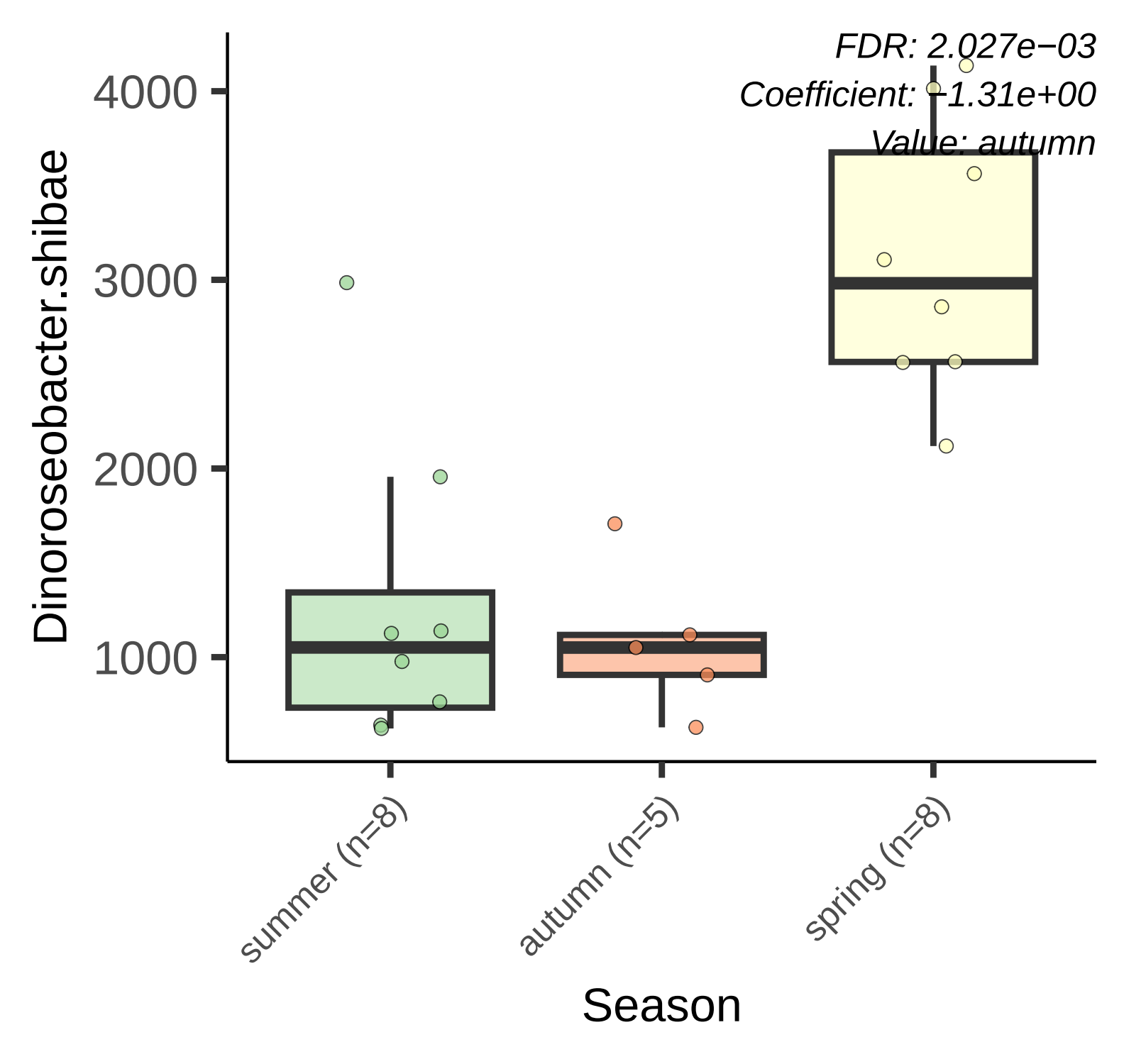

FDR: 1.576e−03
Coefficient: −2.67e+00
Value: autumn
Siansivirga.zeaxanthinifaciens
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

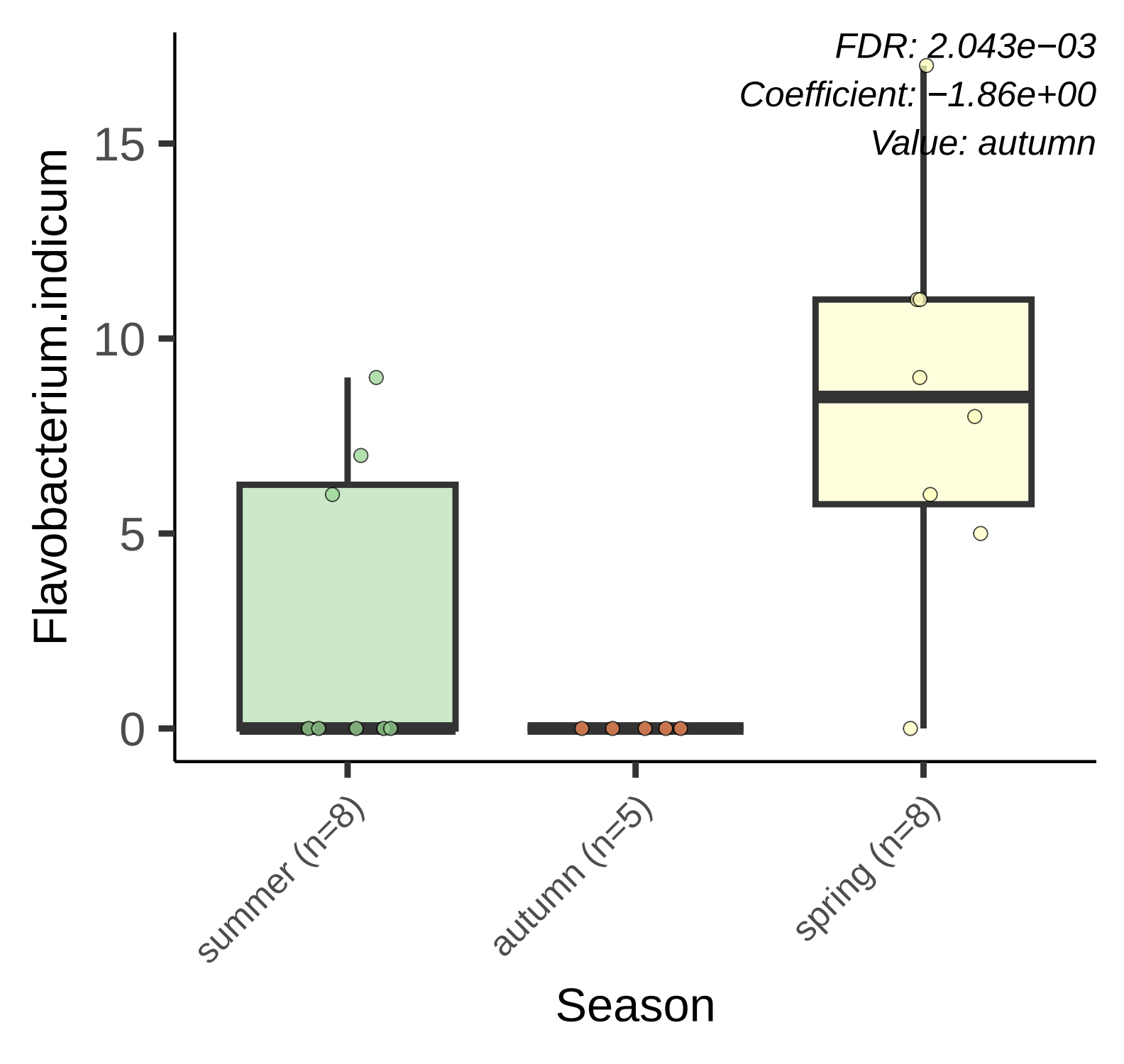

FDR: 1.615e−03
Coefficient: −2.09e+00
Value: autumn
Strepterothrips.tuberculatus
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

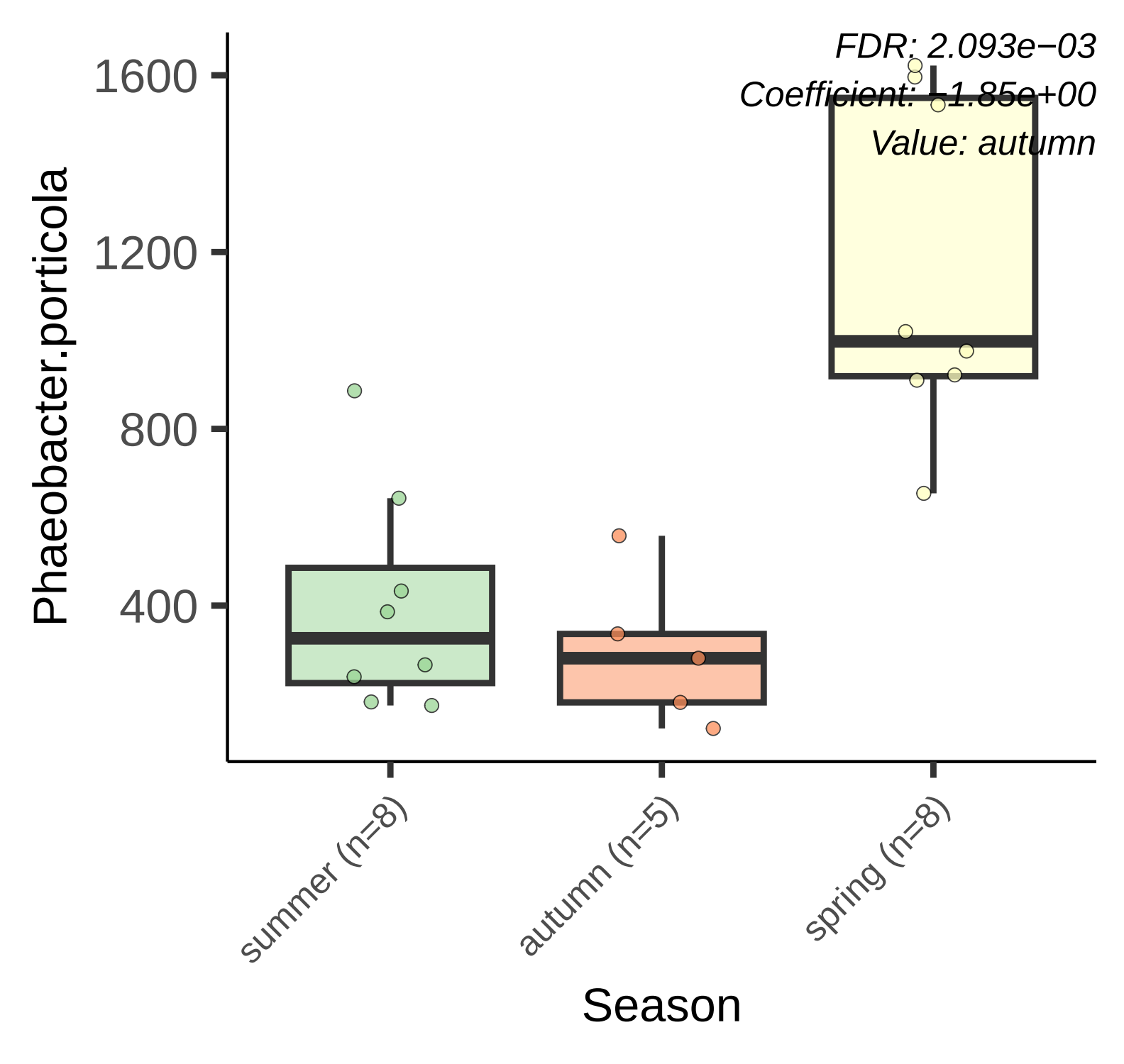

FDR: 1.698e−03
Coefficient: −1.92e+00
Value: autumn
uncultured.gamma.proteobacterium.HF4000_48J03
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

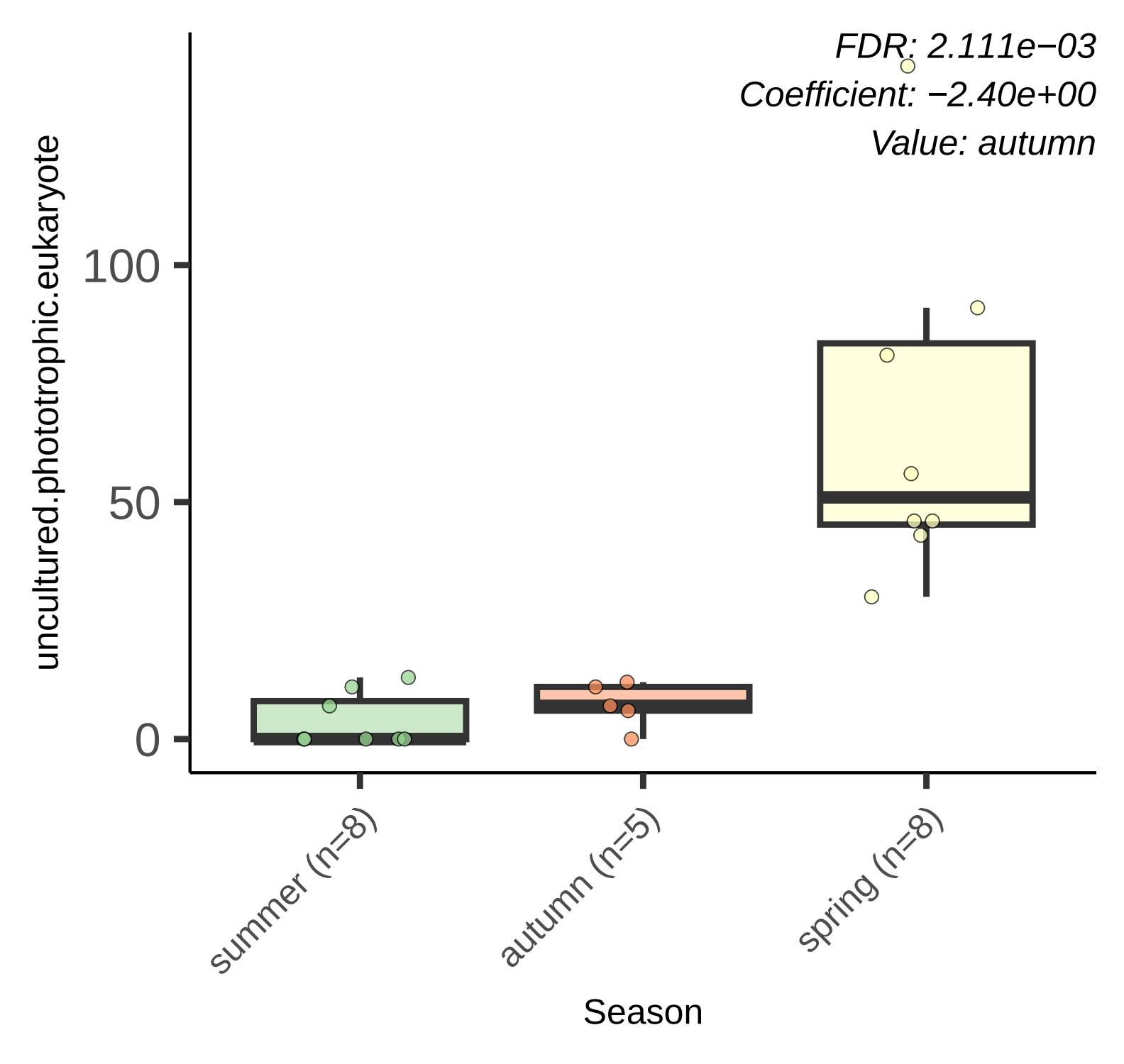

FDR: 1.890e−03
Coefficient: −1.86e+00
Value: autumn
uncultured.Cryomorphaceae.bacterium
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

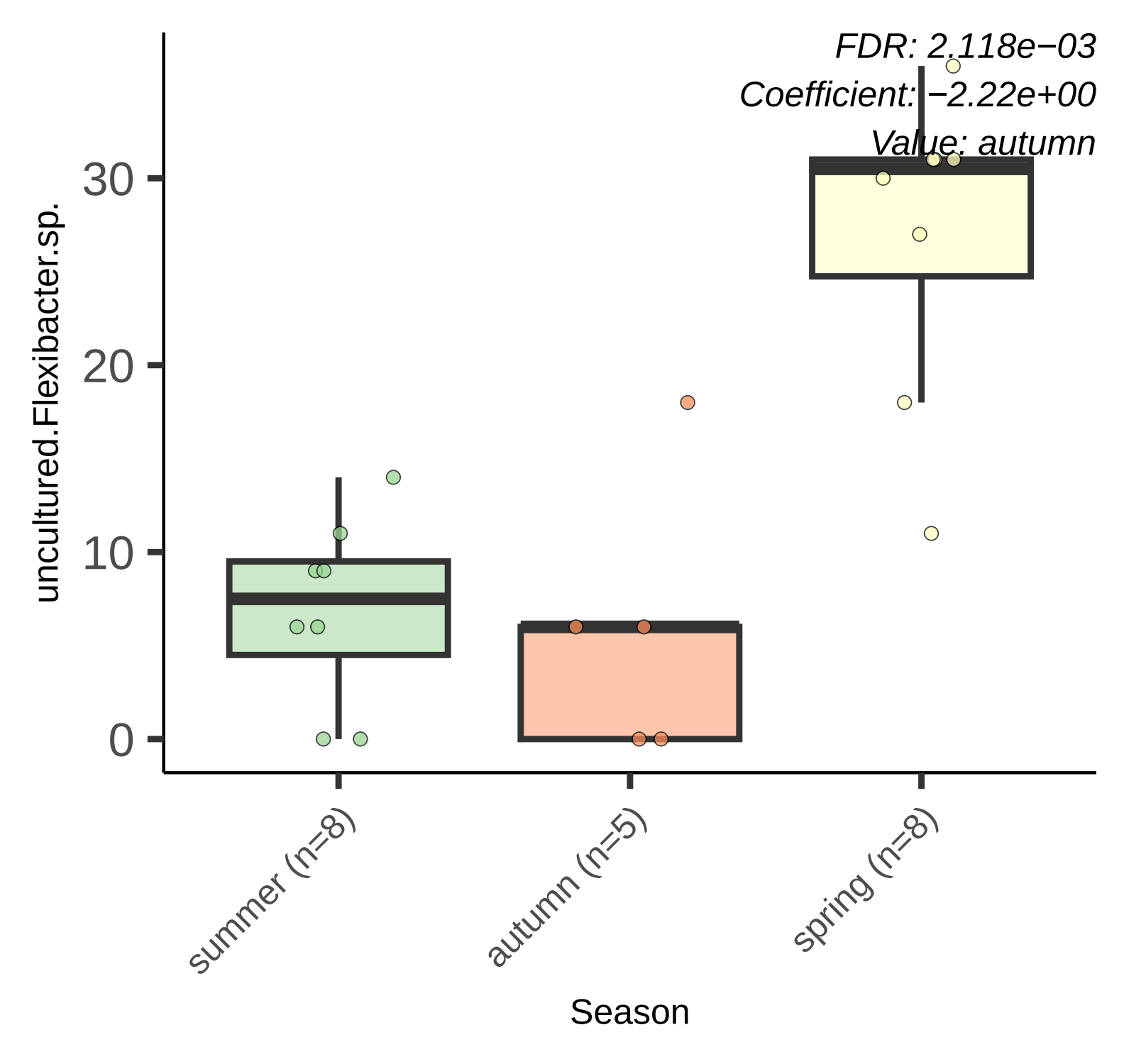

FDR: 1.973e−03
Coefficient: −1.75e+00
Value: autumn
uncultured.Verrucomicrobiales.bacterium.HF0010_05E
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

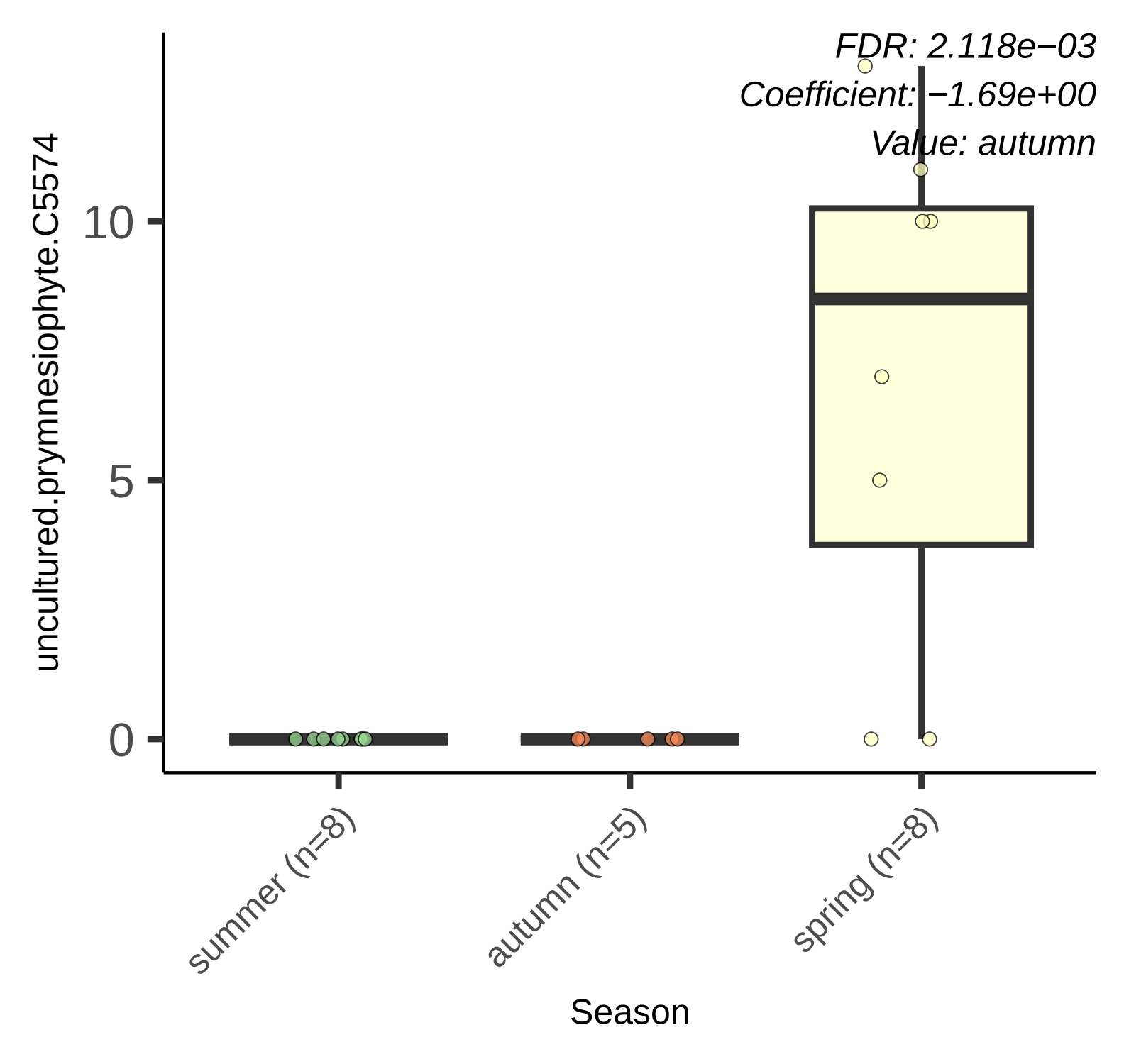

FDR: 2.027e−03
Coefficient: −1.31e+00
Value: autumn
Dinoroseobacter.shibae
4000
3000
2000
1000
summer (n=8)
autumn (n=5)
spring (n=8)
Season

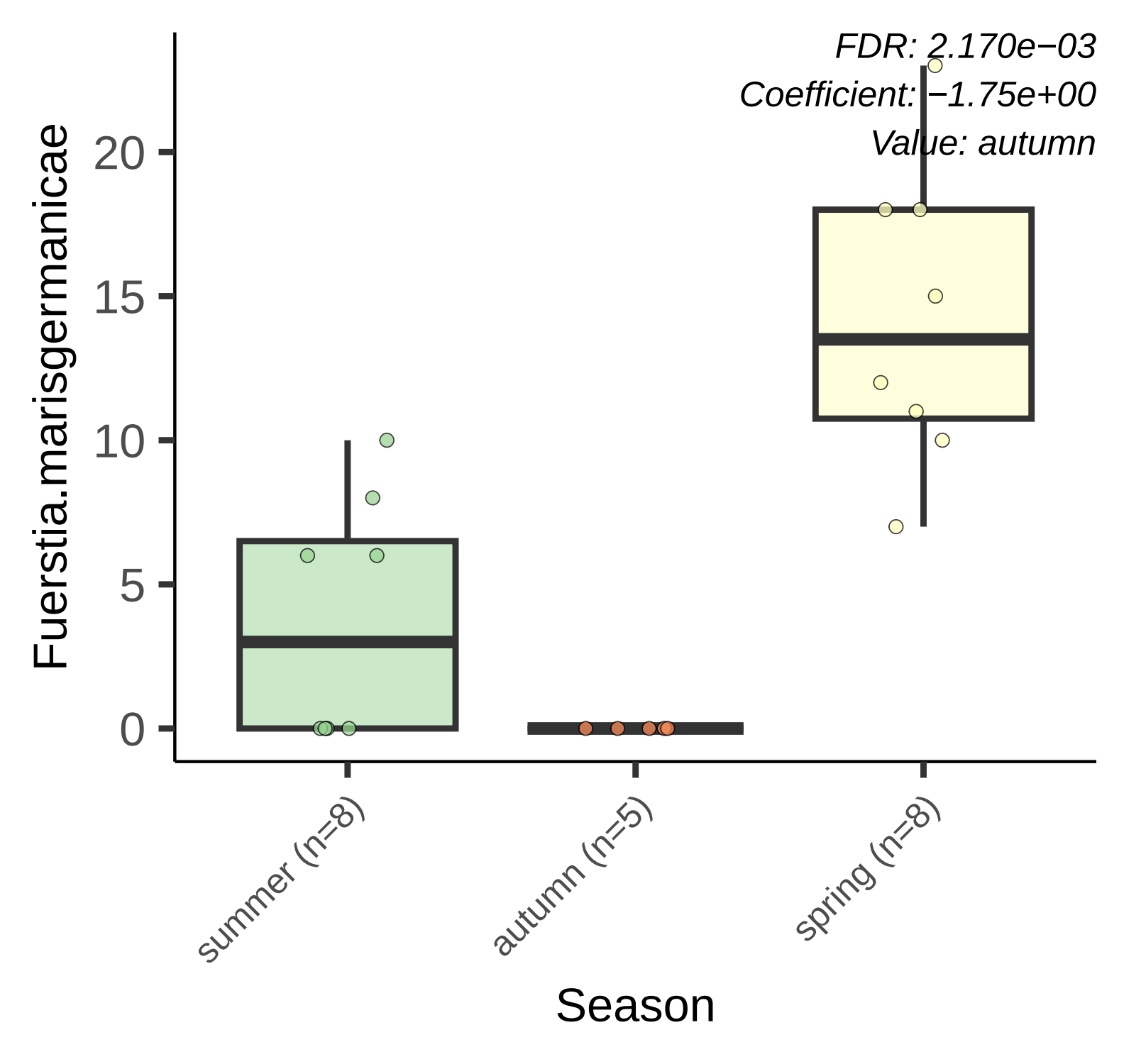

FDR: 2.043e−03
Coefficient: −1.86e+00
Value: autumn
Flavobacterium.indicum
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

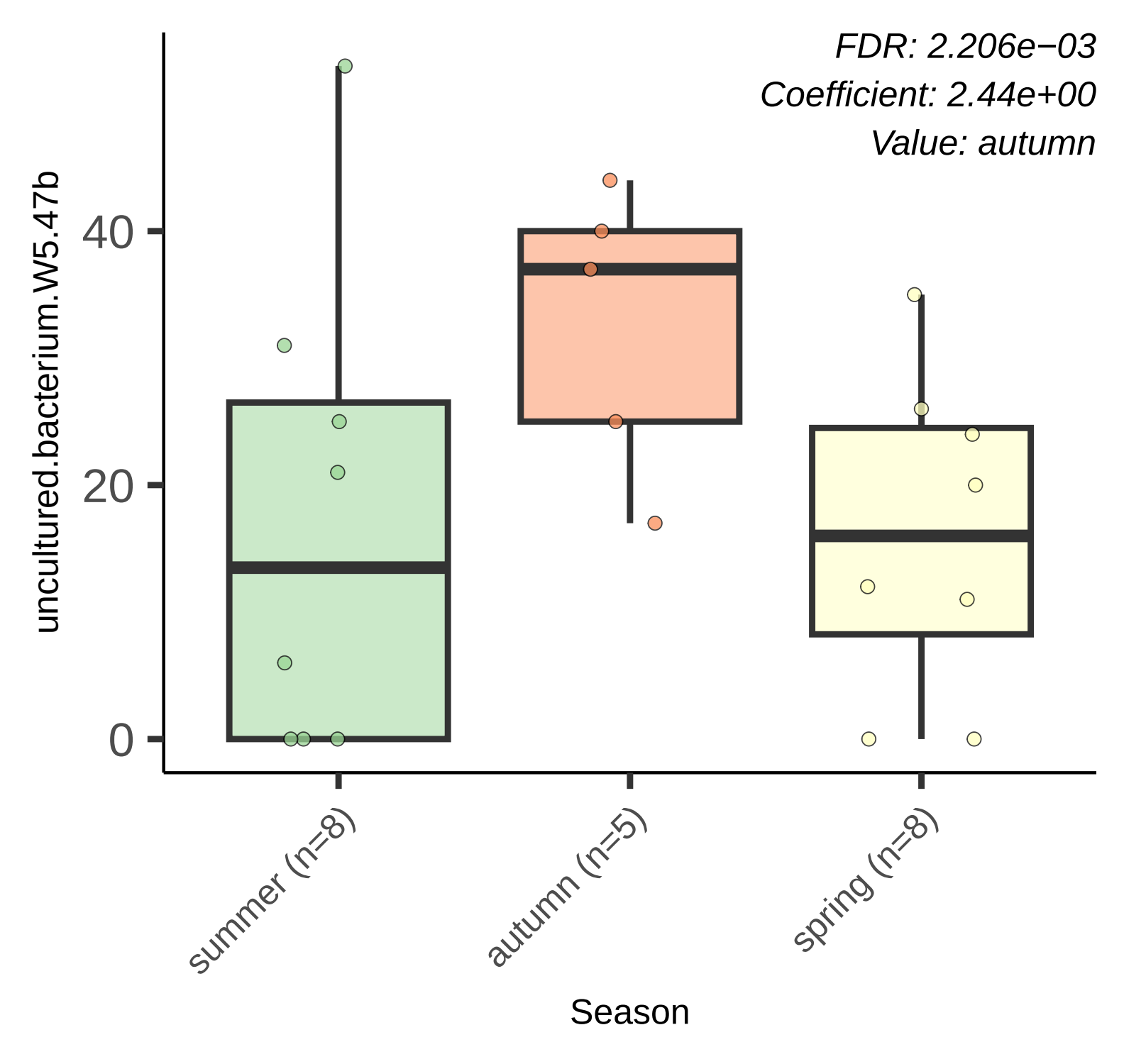

FDR: 2.093e−03
Coefficient: −1.85e+00
Value: autumn
1600
1200
800
400
Phaeobacter.porticola
summer (n=8)
autumn (n=5)
spring (n=8)
Season

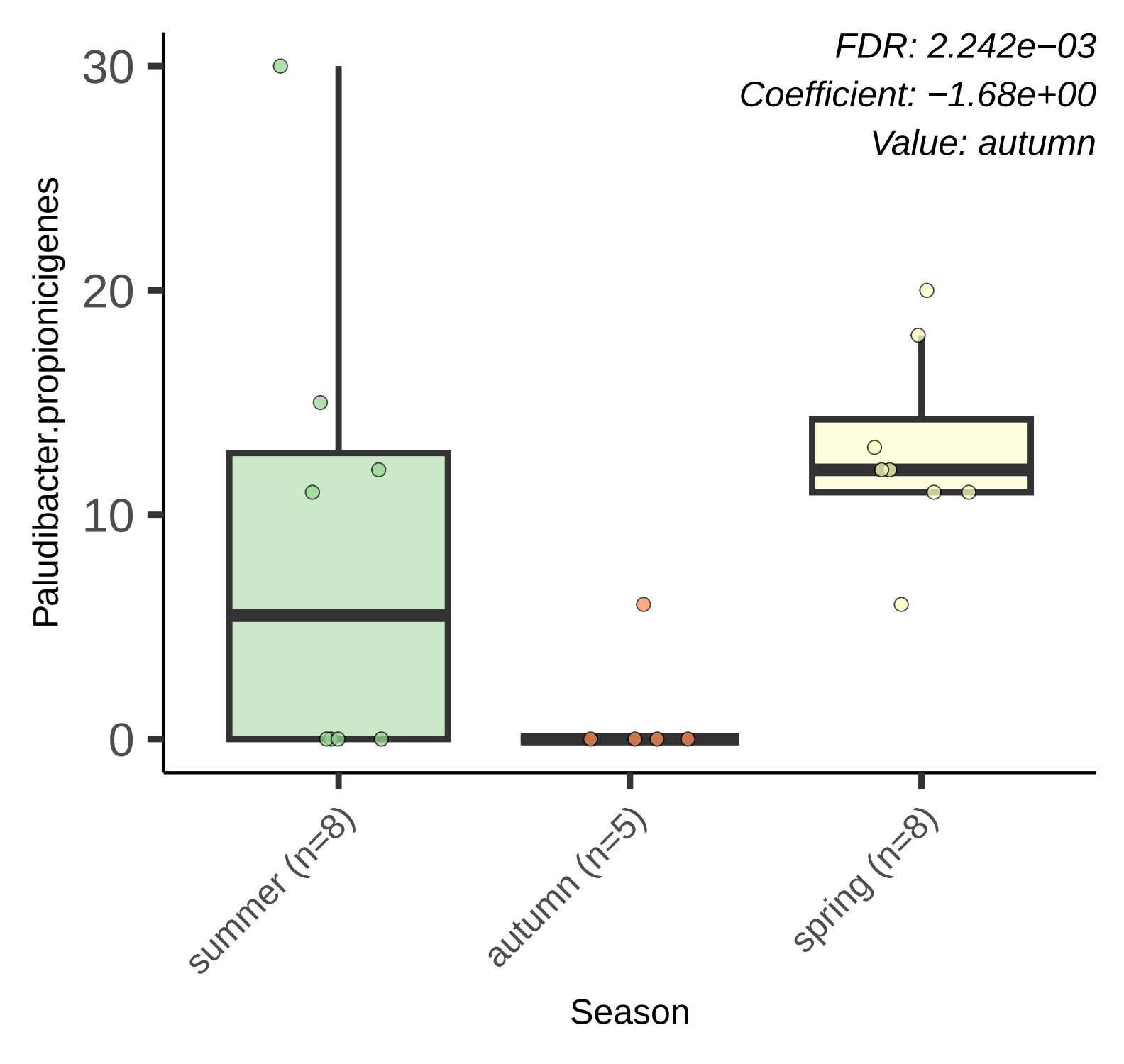

FDR: 2.111e−03
Coefficient: −2.40e+00
Value: autumn
uncultured.phototrophic.eukaryote
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

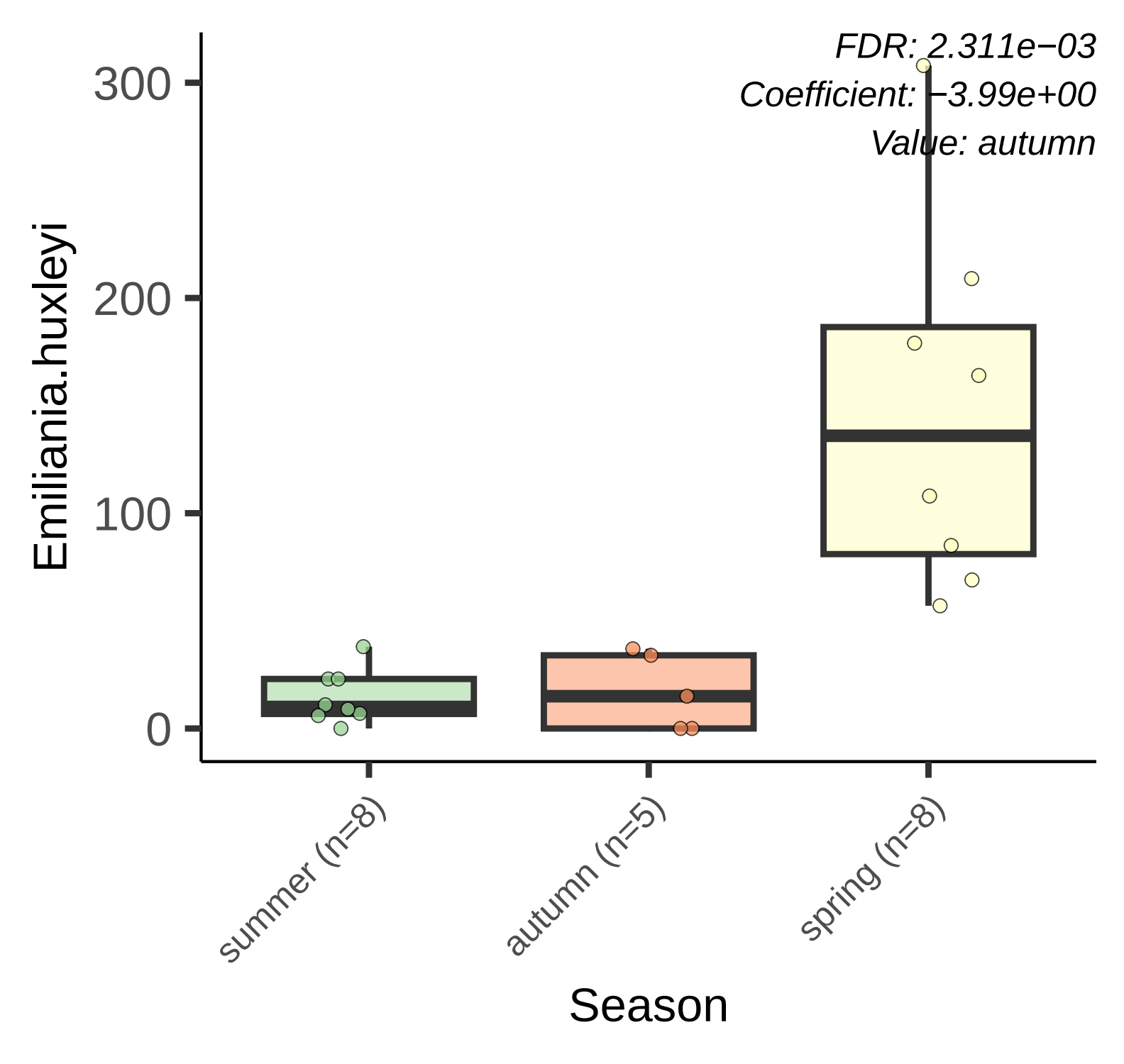

FDR: 2.118e−03
Coefficient: −2.22e+00
Value: autumn
uncultured.Flexibacter.sp.
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

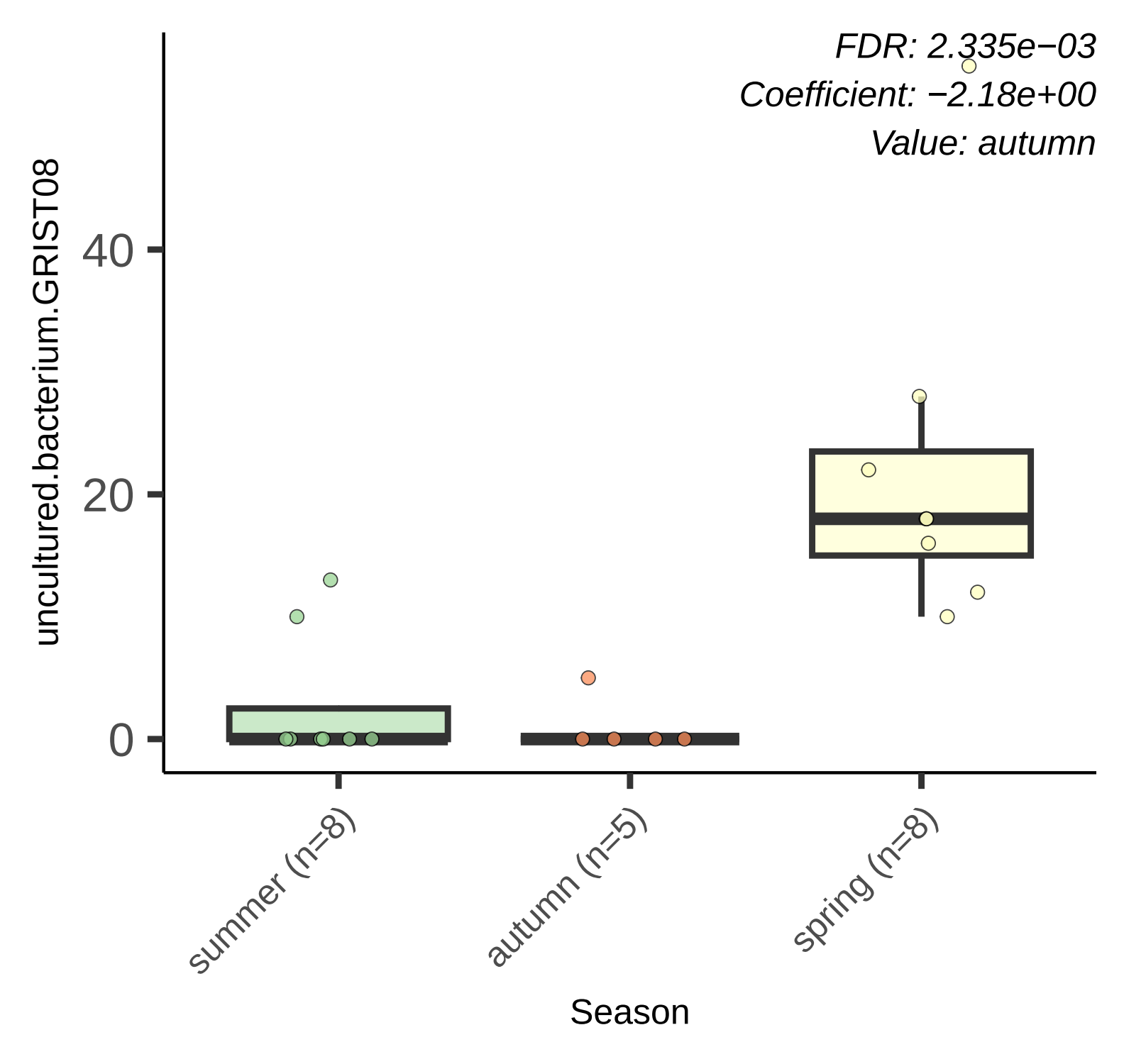

FDR: 2.118e−03
Coefficient: −1.69e+00
Value: autumn
uncultured.prymnesiophyte.C5574
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

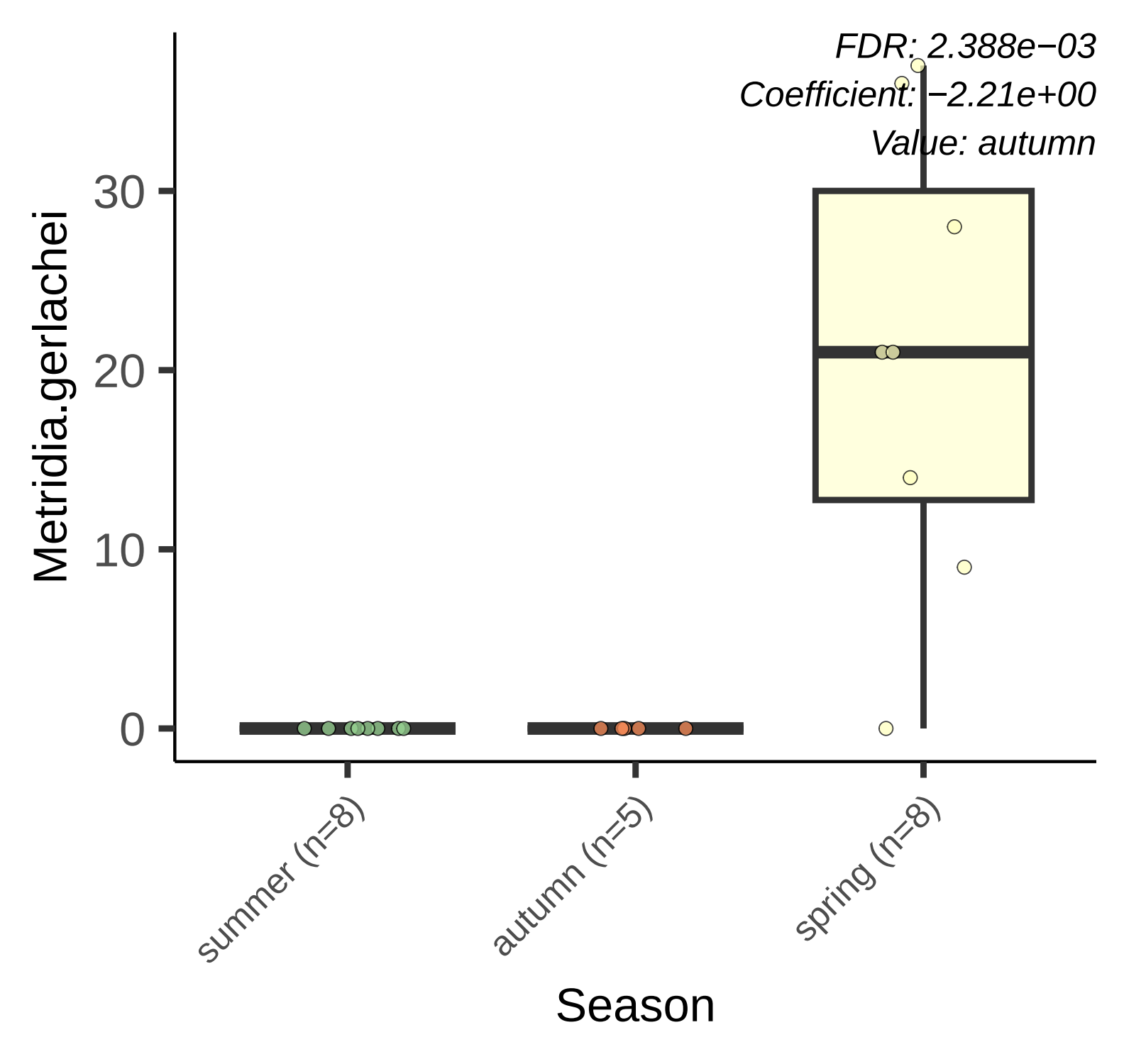

FDR: 2.170e−03
Coefficient: −1.75e+00
Value: autumn
Fuerstia.marisgermanicae
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

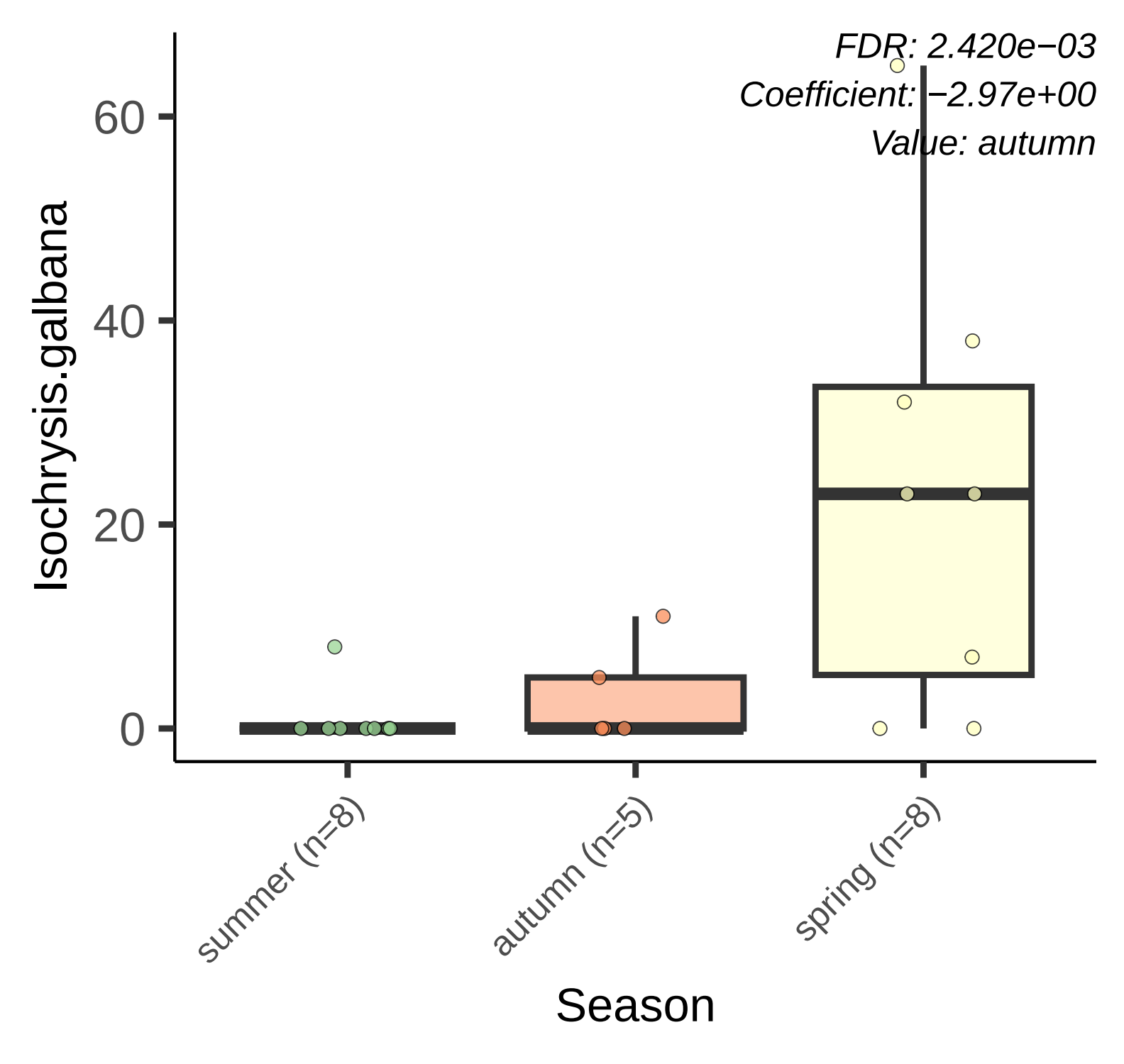

FDR: 2.206e−03
Coefficient: 2.44e+00
Value: autumn
uncultured.bacterium.W5.47b
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

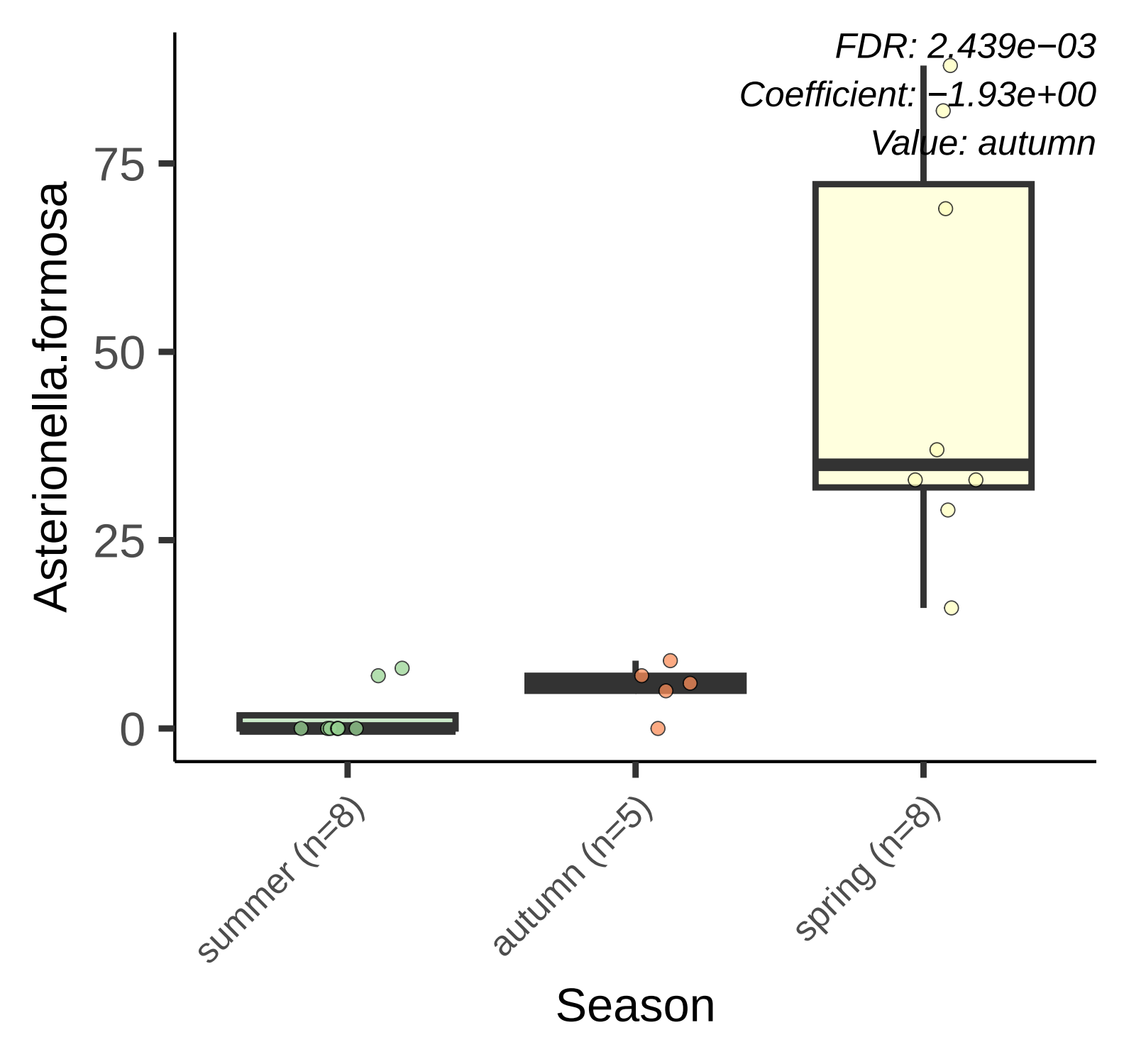

FDR: 2.242e−03
Coefficient: −1.68e+00
Value: autumn
Paludibacter.propionicigenes
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

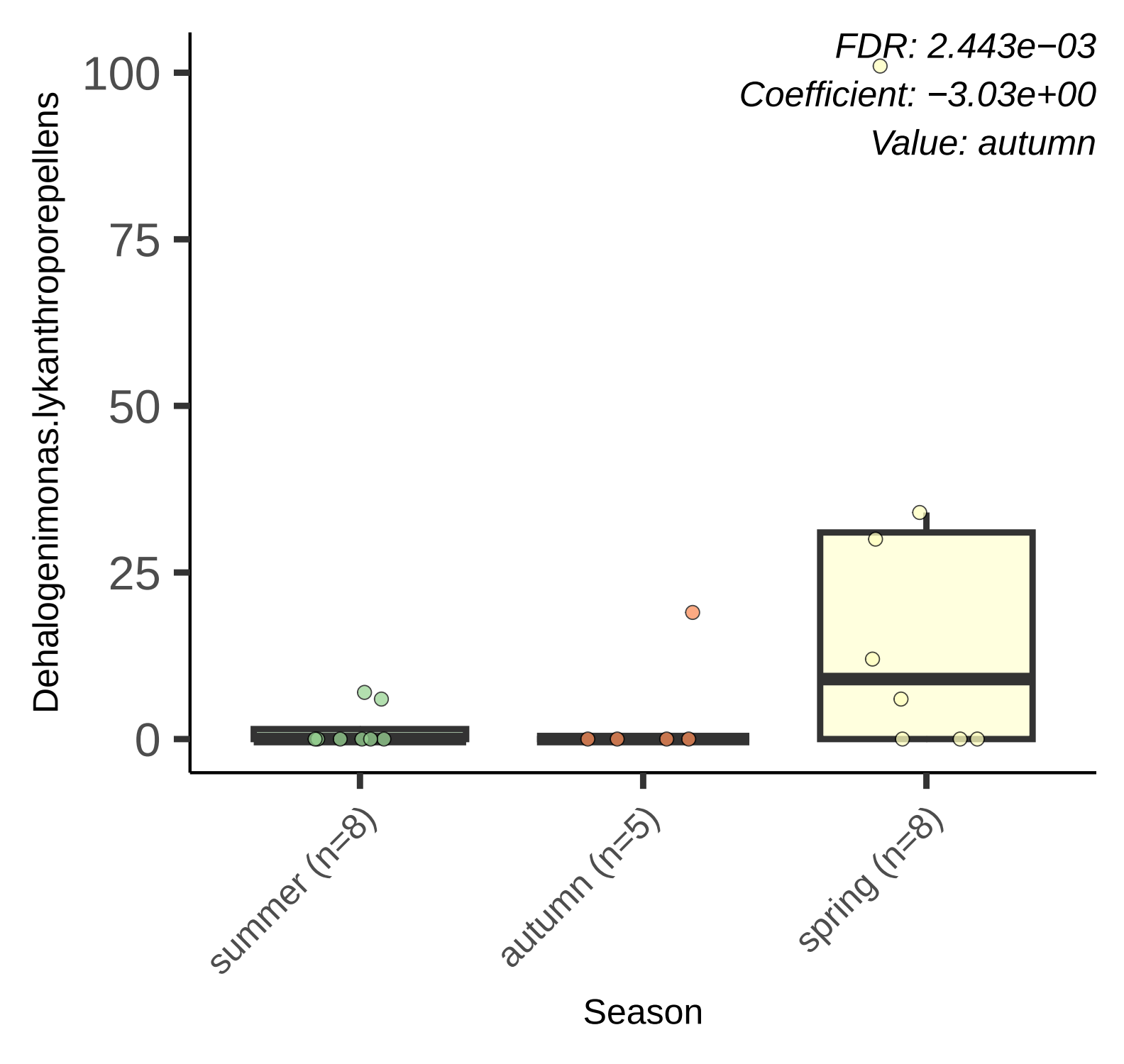

FDR: 2.311e−03
Coefficient: −3.99e+00
Value: autumn
Emiliania.huxleyi
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

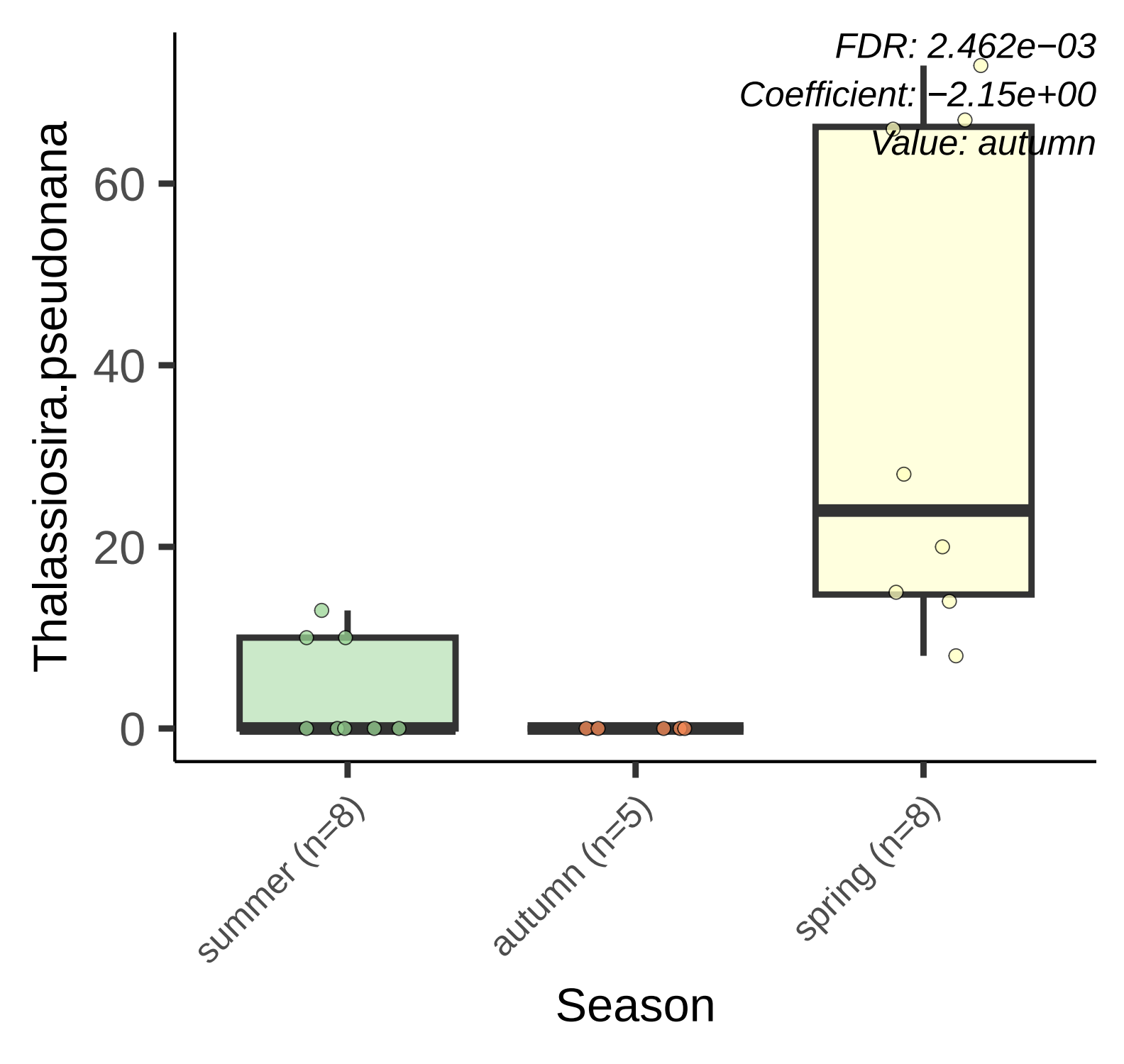

FDR: 2.335e−03
Coefficient: −2.18e+00
Value: autumn
uncultured.bacterium.GRIST08
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

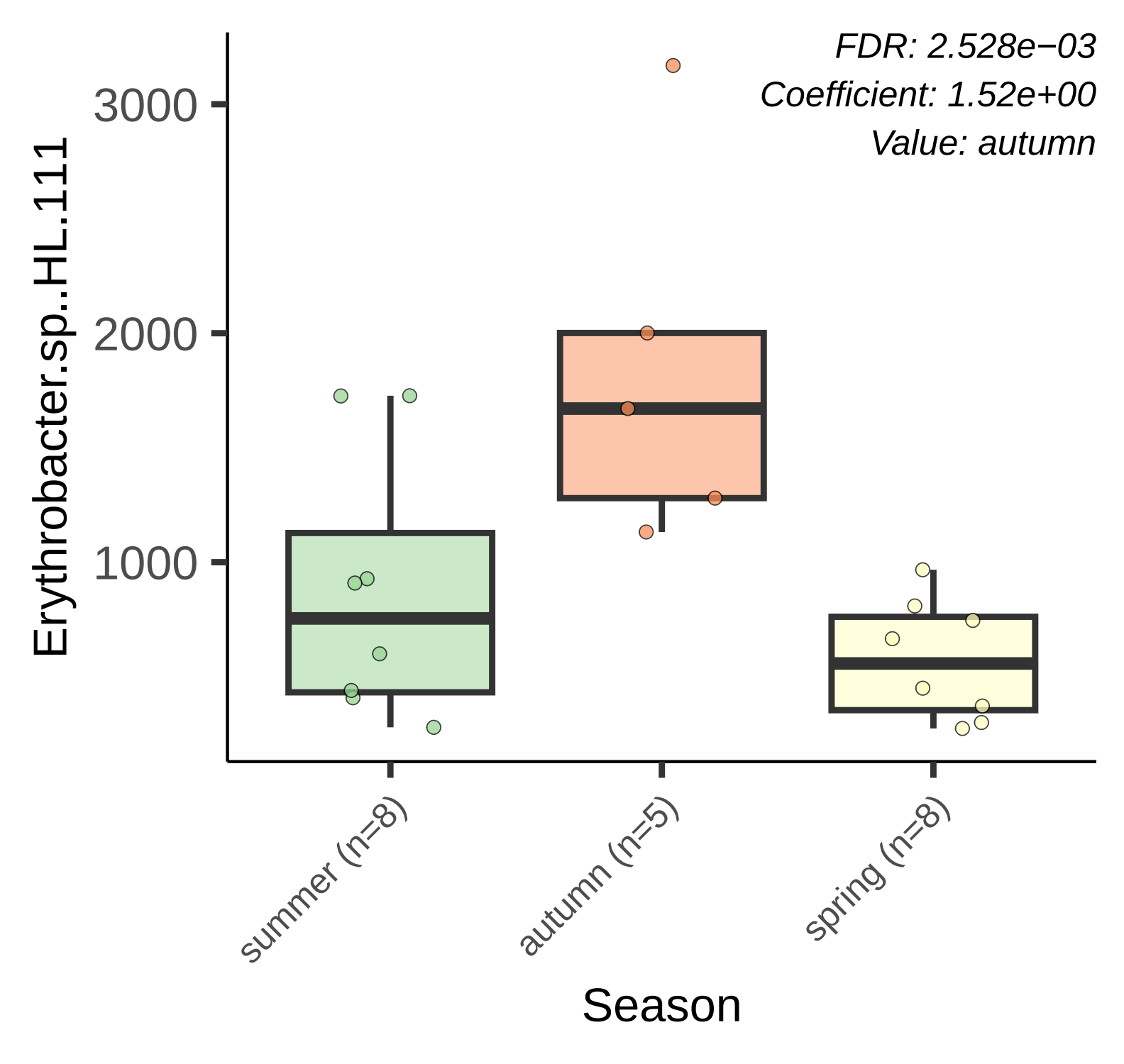

FDR: 2.388e−03
Coefficient: −2.21e+00
Value: autumn
Metridia.gerlachei
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

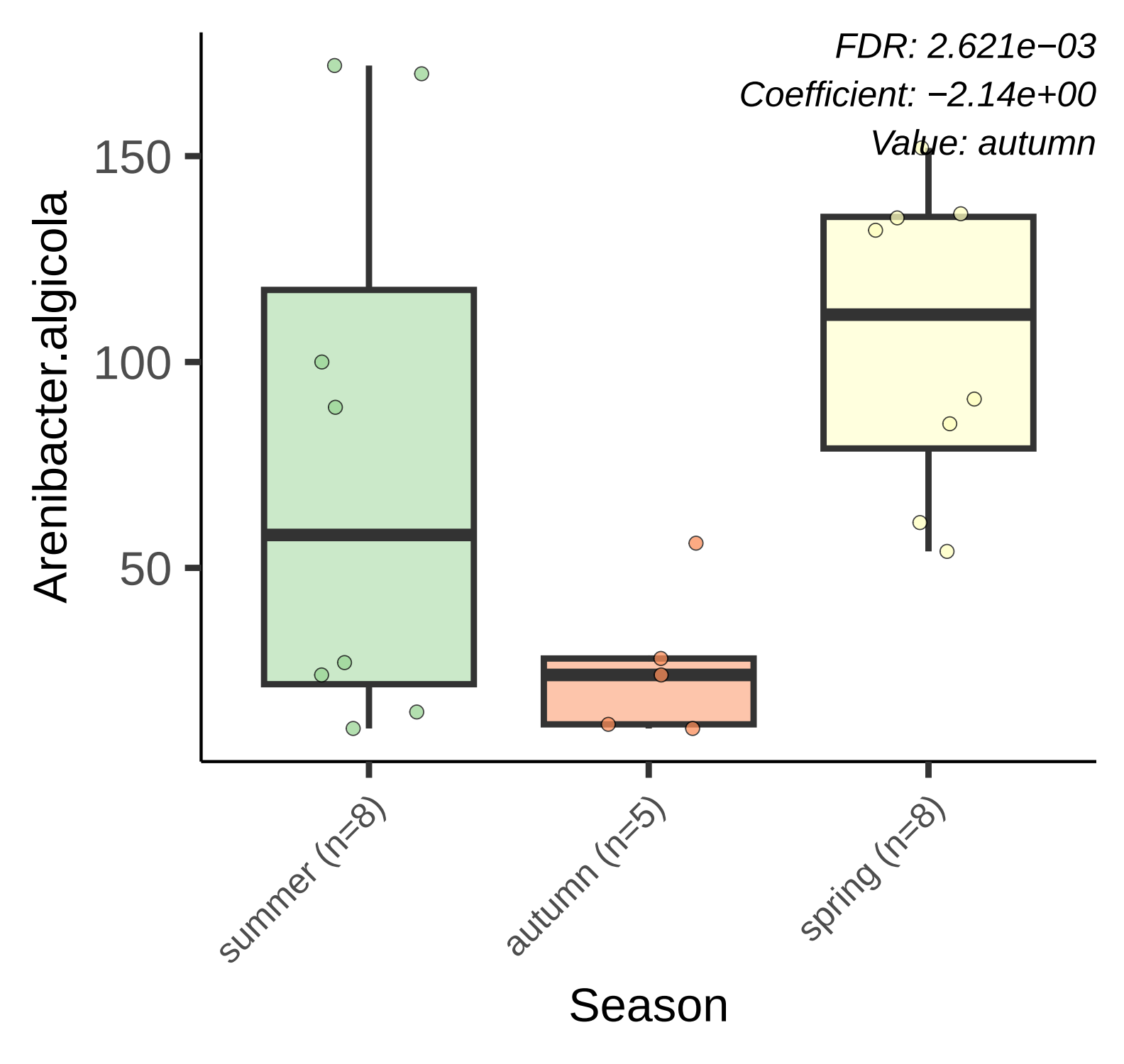

FDR: 2.420e−03
Coefficient: −2.97e+00
Value: autumn
Isochrysis.galbana
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

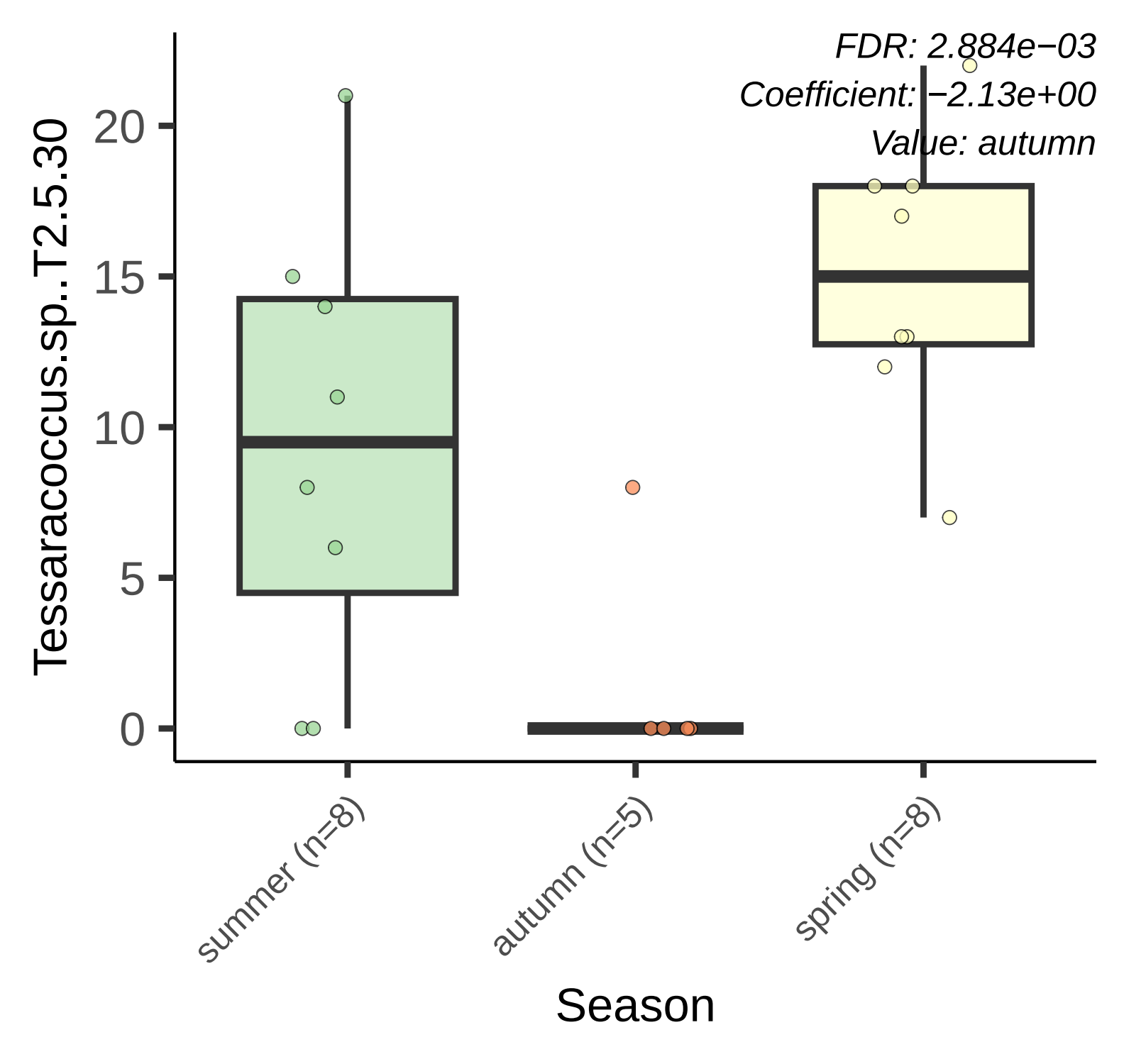

FDR: 2.439e−03
Coefficient: −1.93e+00
Value: autumn
Asterionella.formosa
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

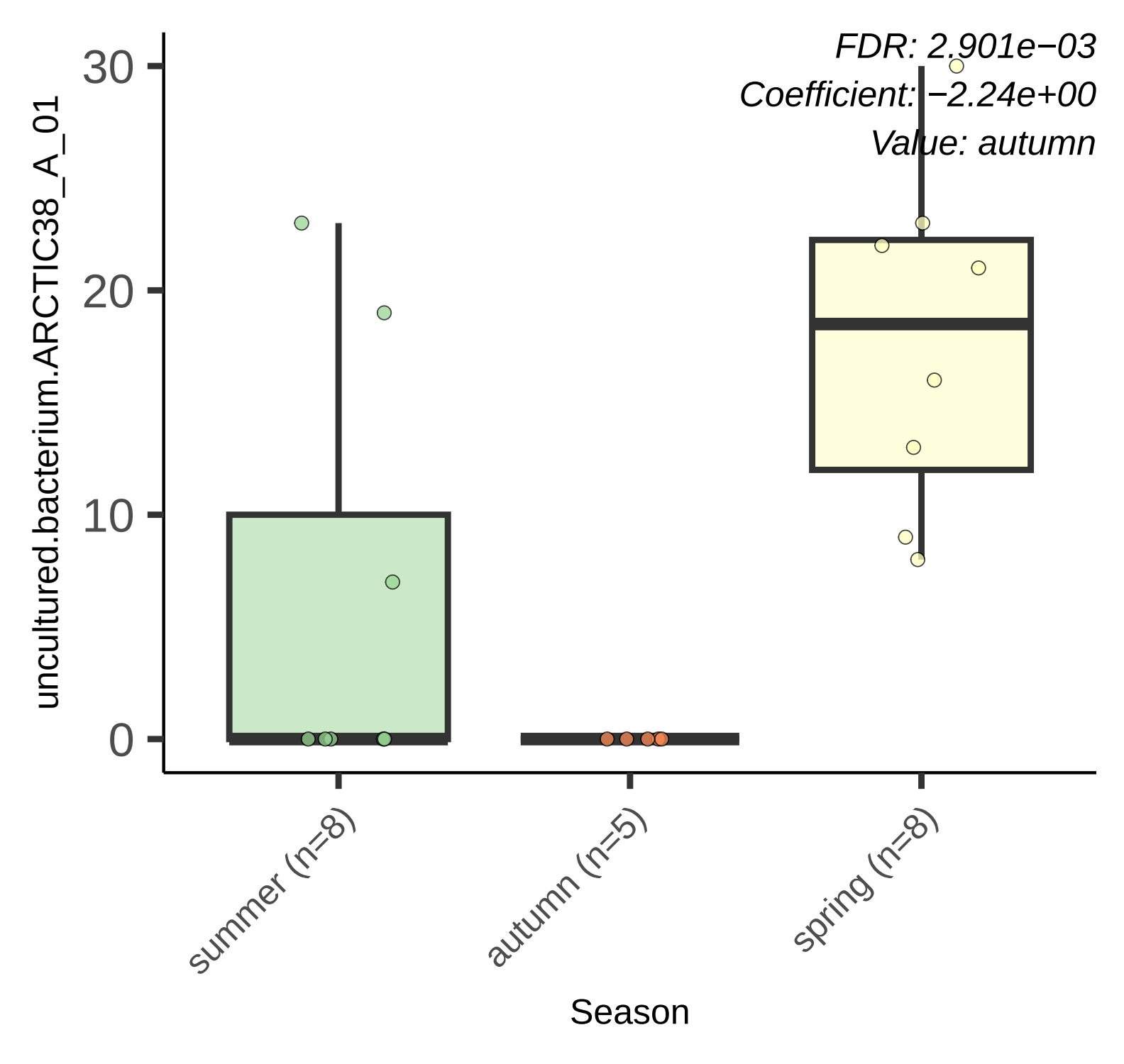

FDR: 2.443e−03
Coefficient: −3.03e+00
Value: autumn
Dehalogenimonas.lykanthroporepellens
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

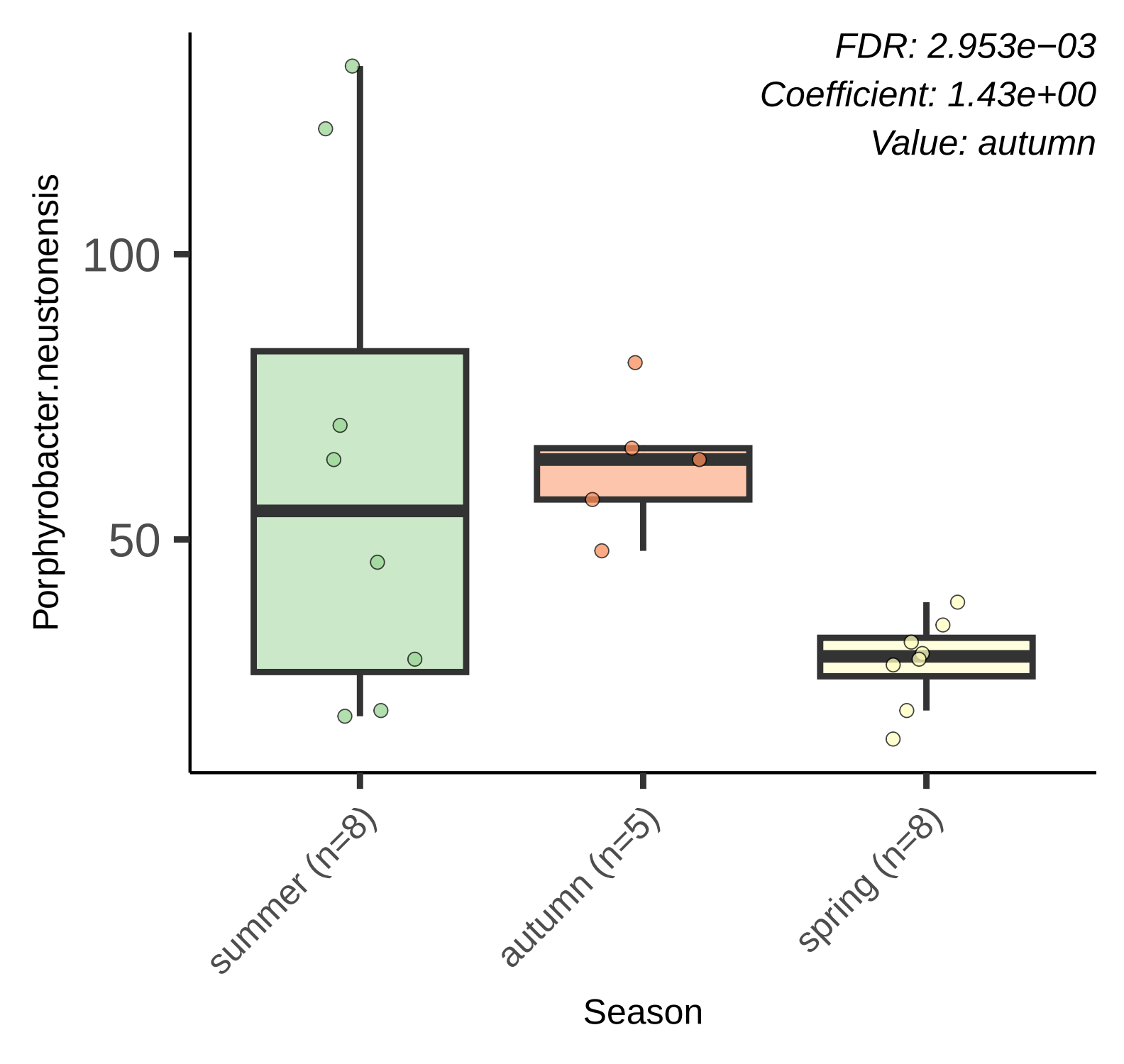

FDR: 2.462e−03
Coefficient: −2.15e+00
Value: autumn
Thalassiosira.pseudonana
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

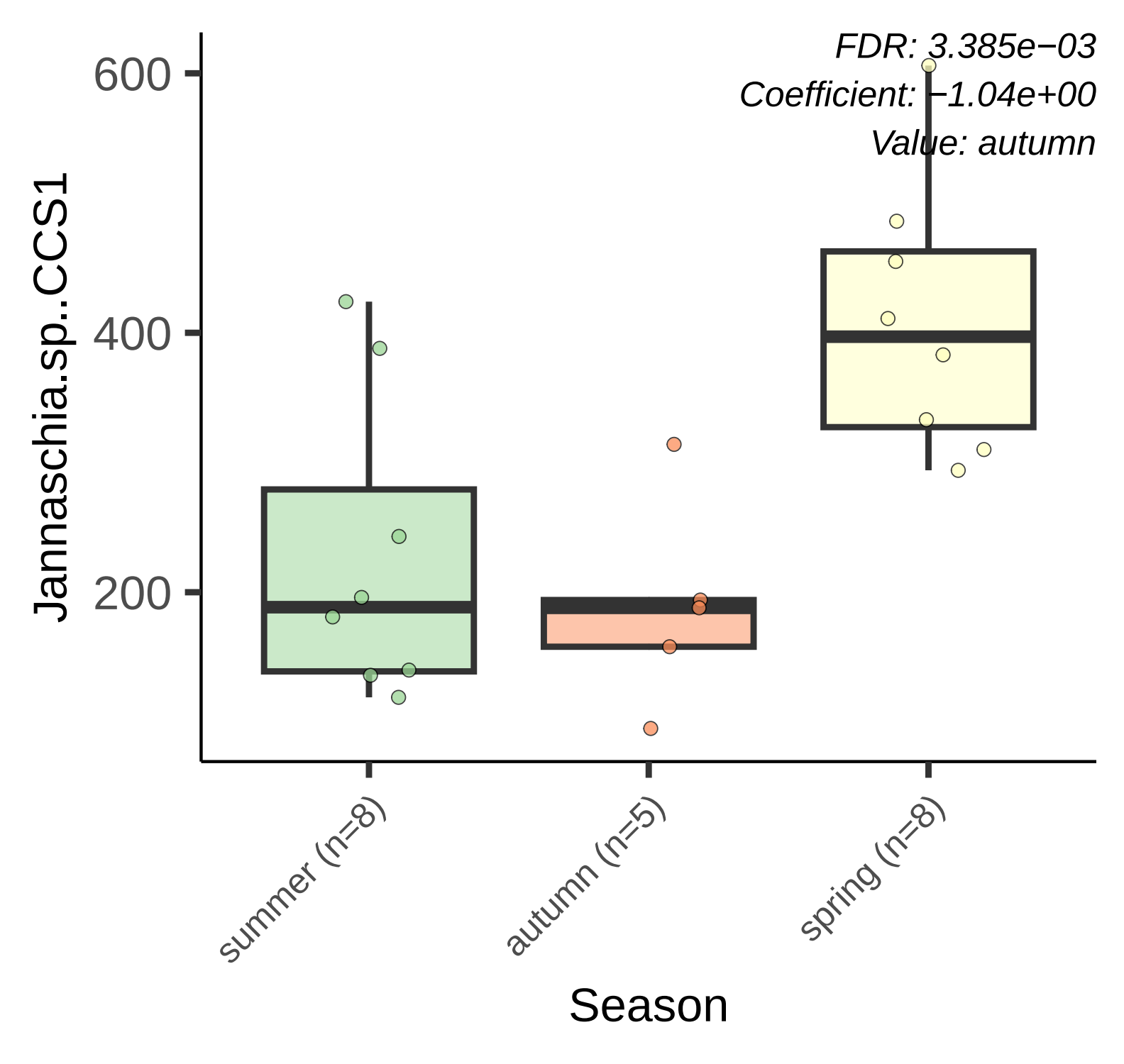

FDR: 2.528e−03
Coefficient: 1.52e+00
Value: autumn
Erythrobacter.sp..HL.111
3000
2000
1000
summer (n=8)
autumn (n=5)
spring (n=8)
Season

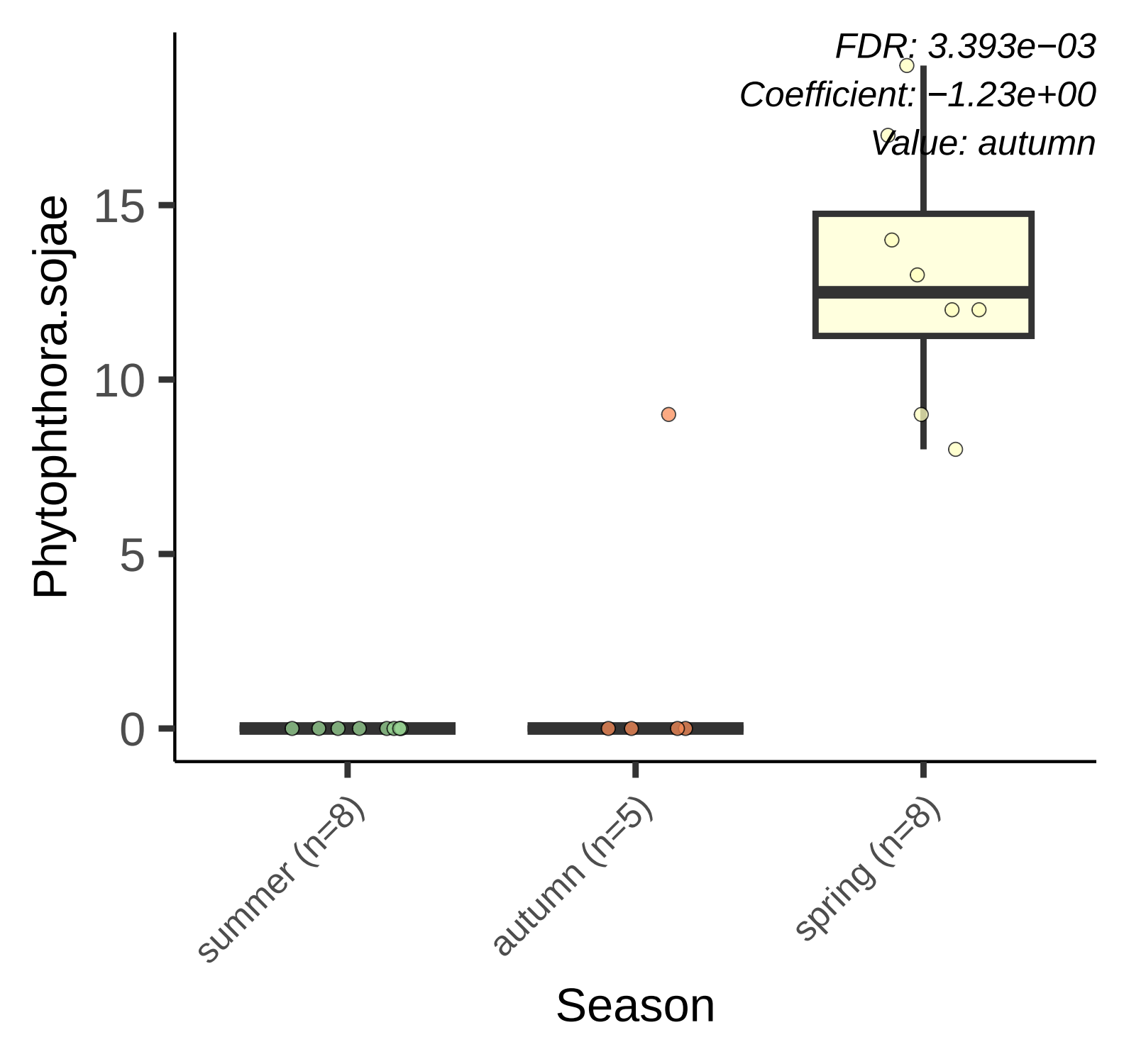

FDR: 2.621e−03
Coefficient: −2.14e+00
Value: autumn
Arenibacter.algicola
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

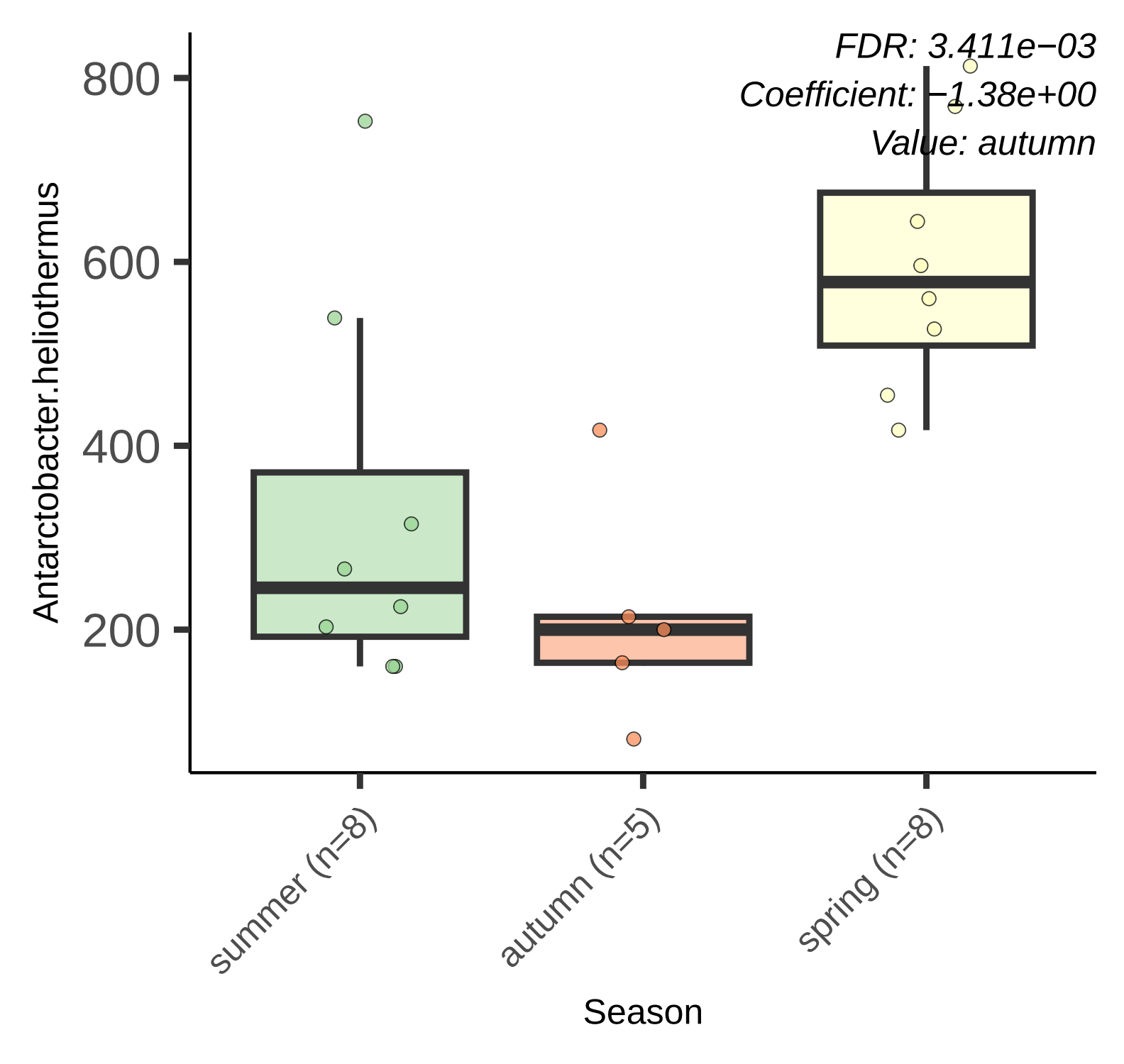

FDR: 2.884e−03
Coefficient: −2.13e+00
Value: autumn
Tessaracoccus.sp..T2.5.30
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

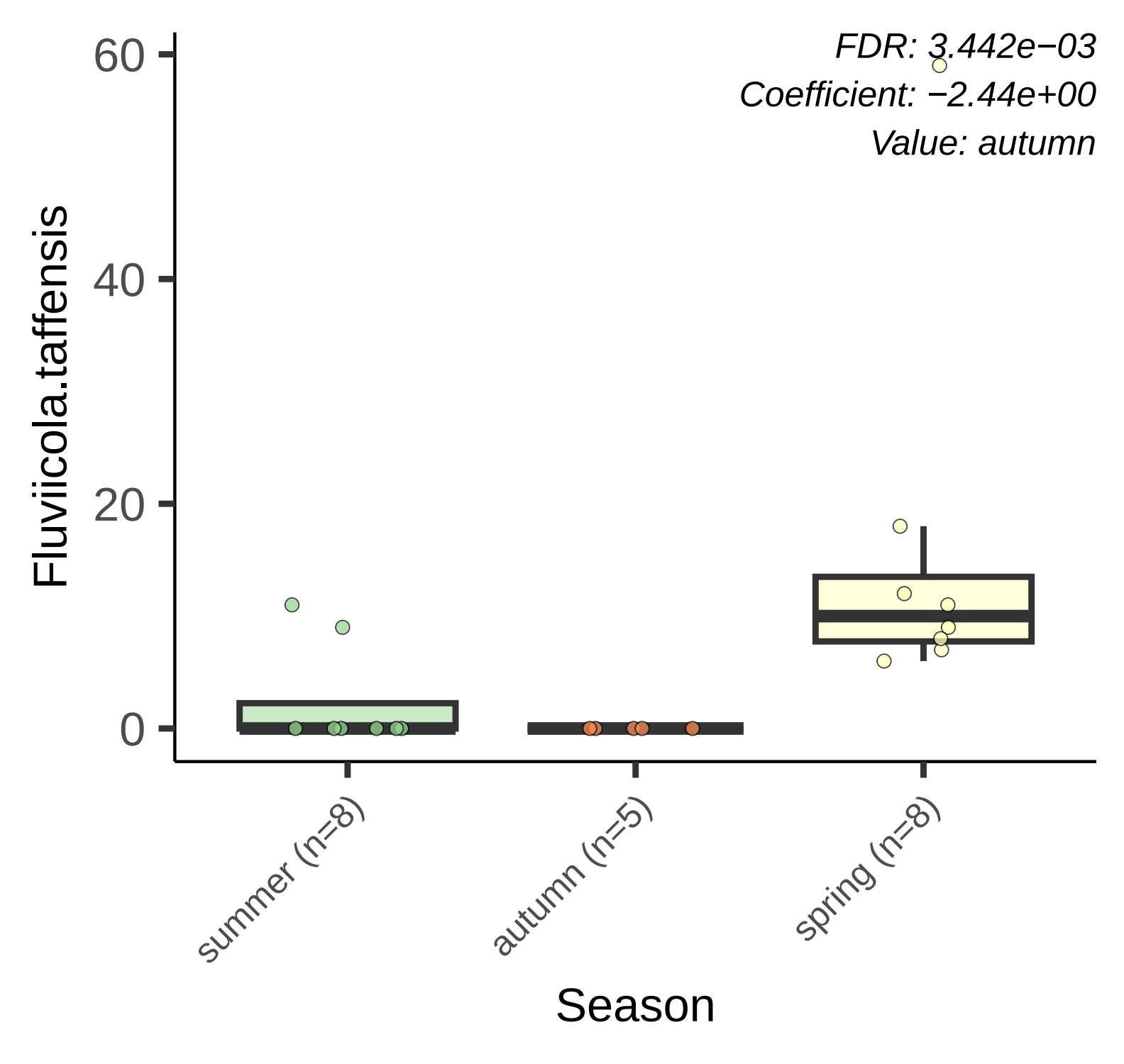

FDR: 2.901e−03
Coefficient: −2.24e+00
Value: autumn
uncultured.bacterium.ARCTIC38_A_01
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

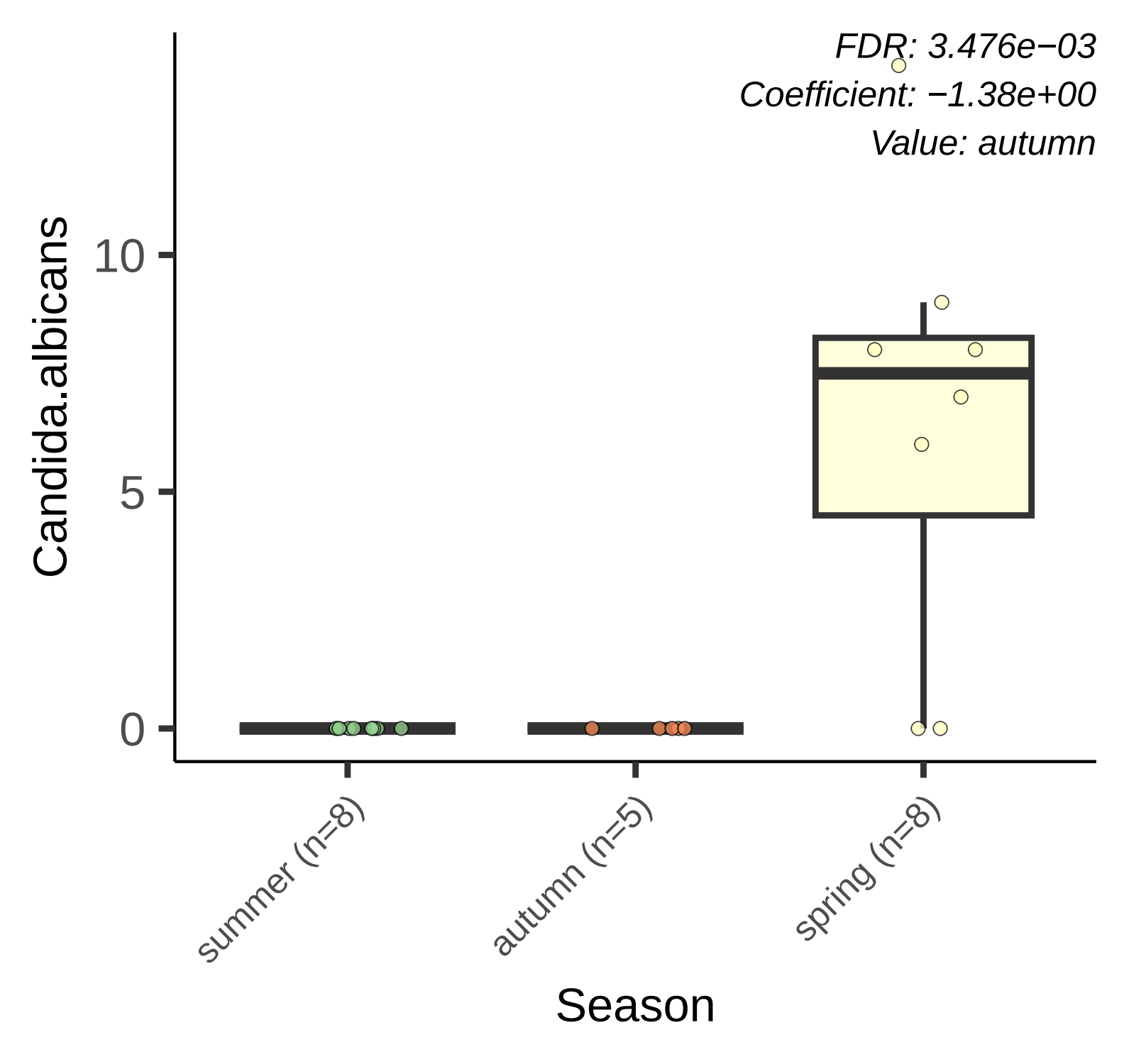

FDR: 2.953e−03
Coefficient: 1.43e+00
Value: autumn
Porphyrobacter.neustonensis
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

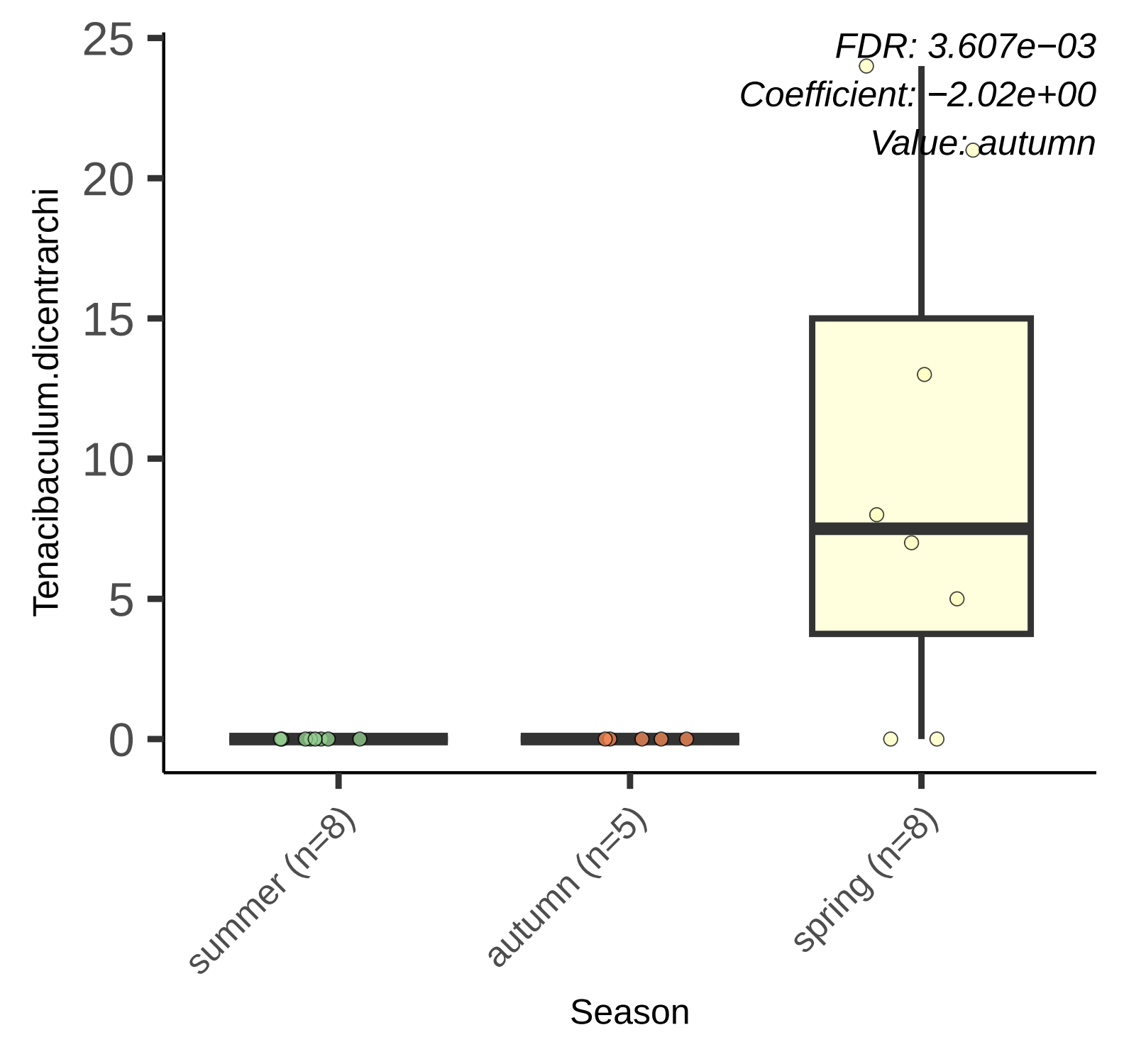

FDR: 3.385e−03
Coefficient: −1.04e+00
Value: autumn
600
400
200
Jannaschia.sp..CCS1
summer (n=8)
autumn (n=5)
spring (n=8)
Season

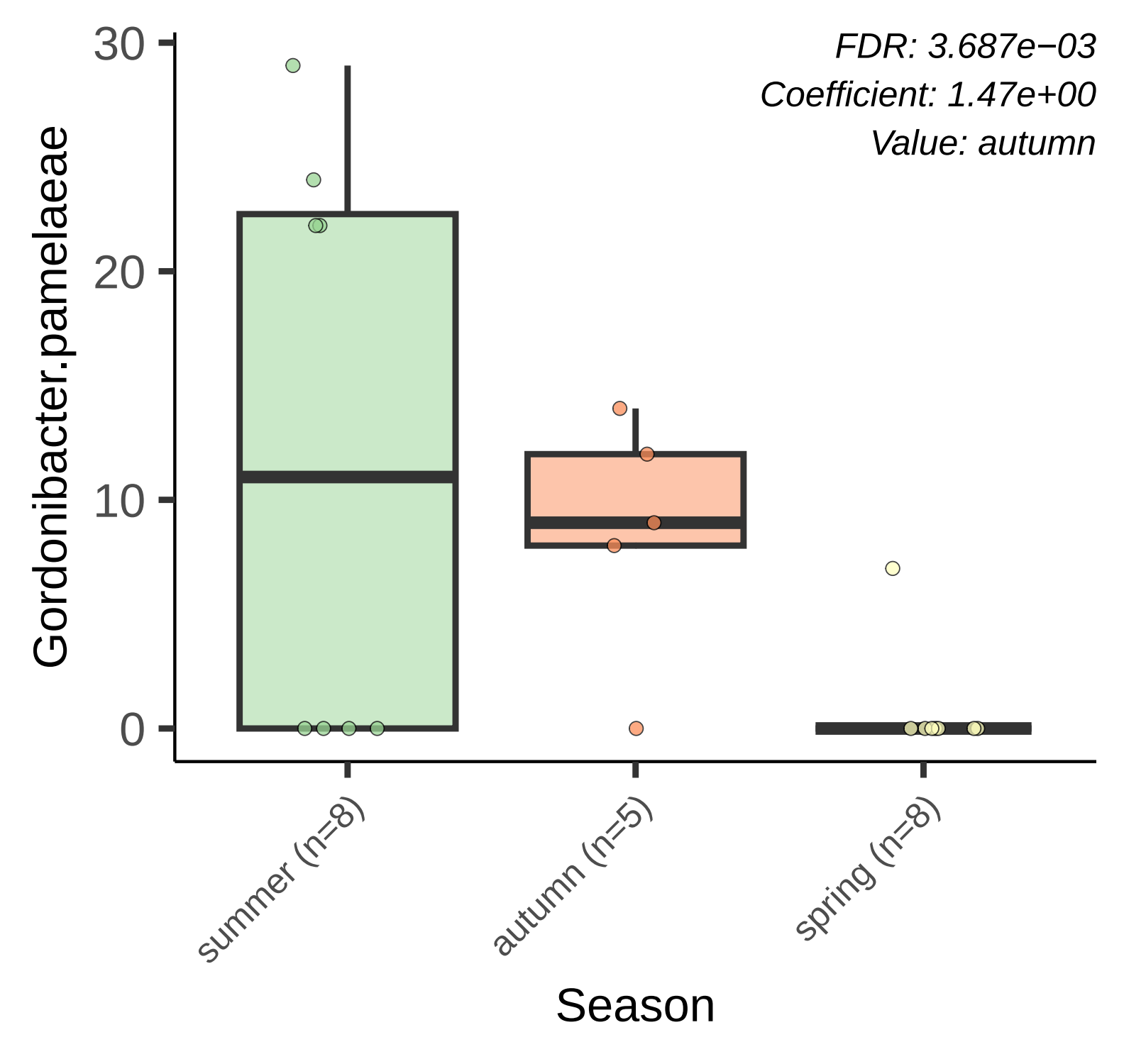

FDR: 3.393e−03
Coefficient: −1.23e+00
Value: autumn
Phytophthora.sojae
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

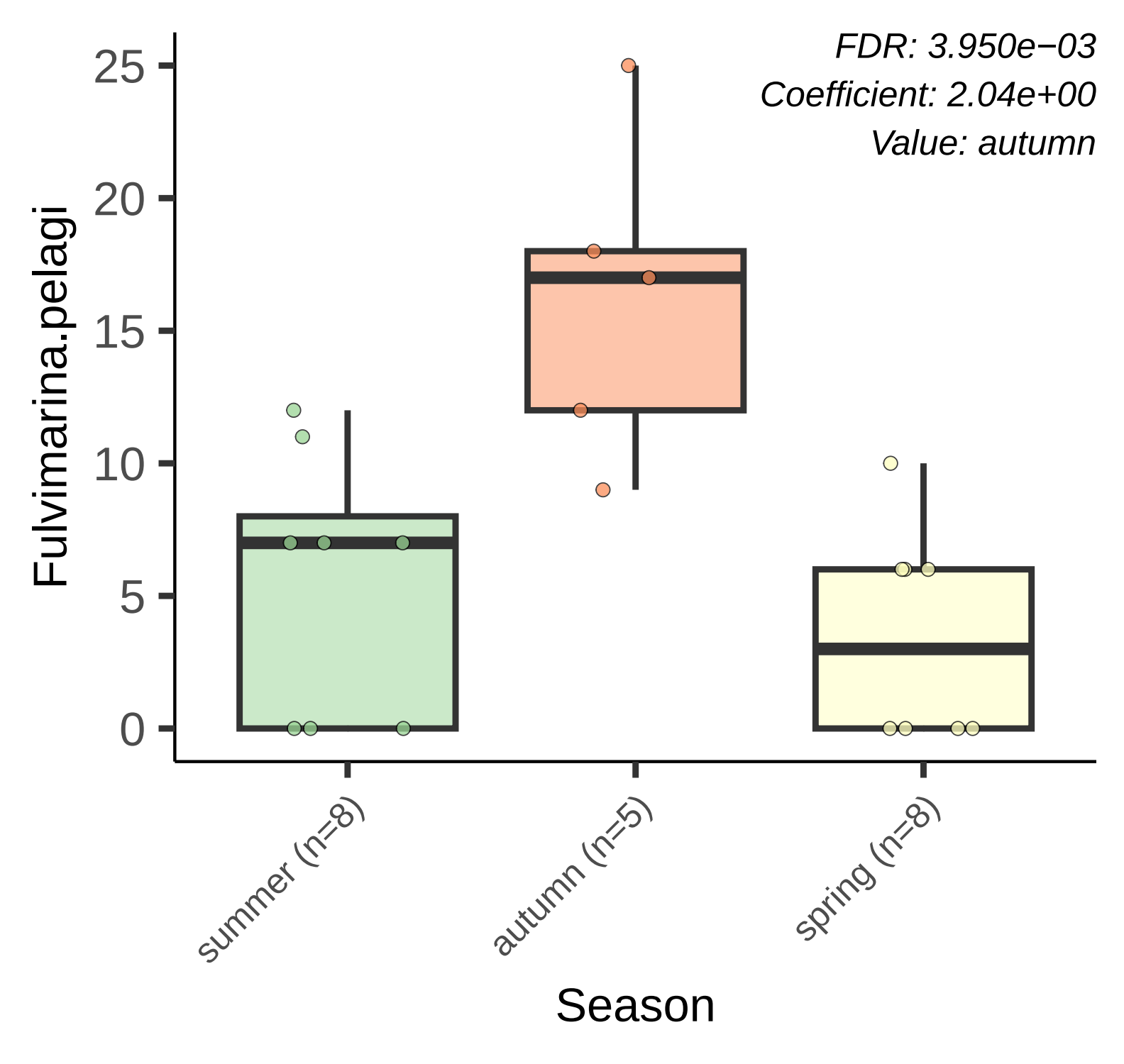

FDR: 3.411e−03
Coefficient: −1.38e+00
Value: autumn
800
600
400
200
Antarctobacter.heliothermus
summer (n=8)
autumn (n=5)
spring (n=8)
Season

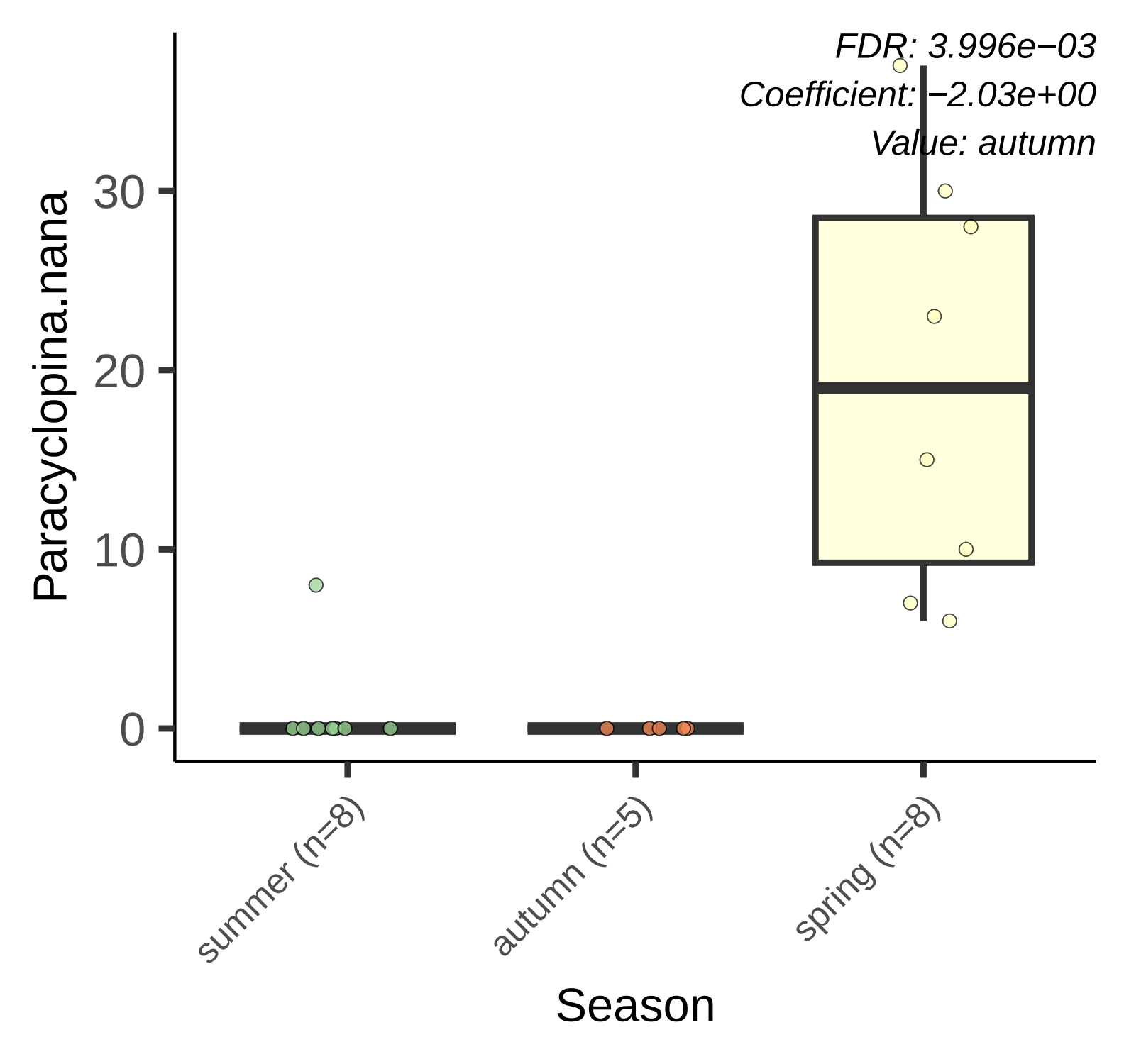

FDR: 3.442e−03
Coefficient: −2.44e+00
Value: autumn
Fluviicola.taffensis
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

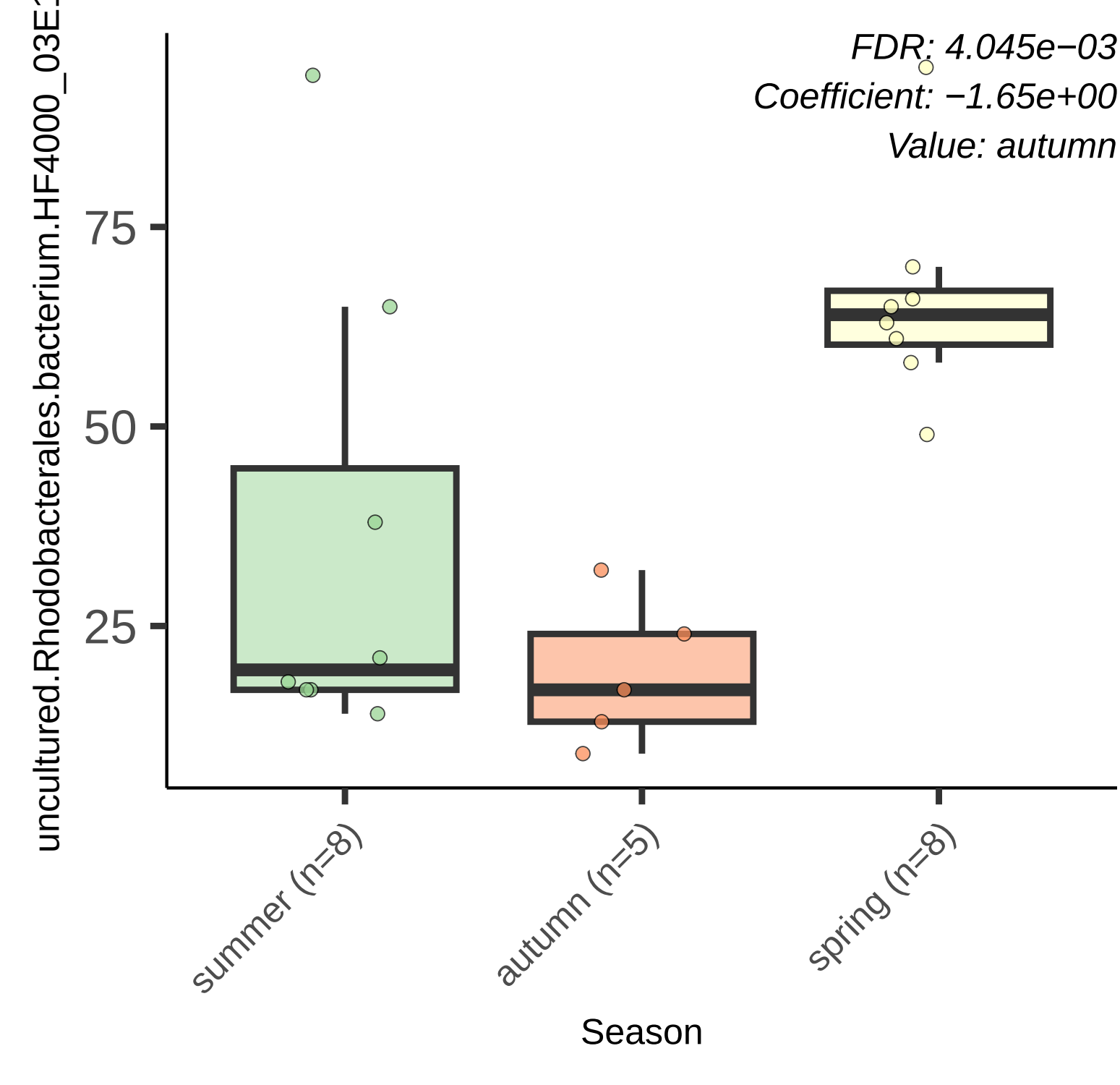

FDR: 3.476e−03
Coefficient: −1.38e+00
Value: autumn
Candida.albicans
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

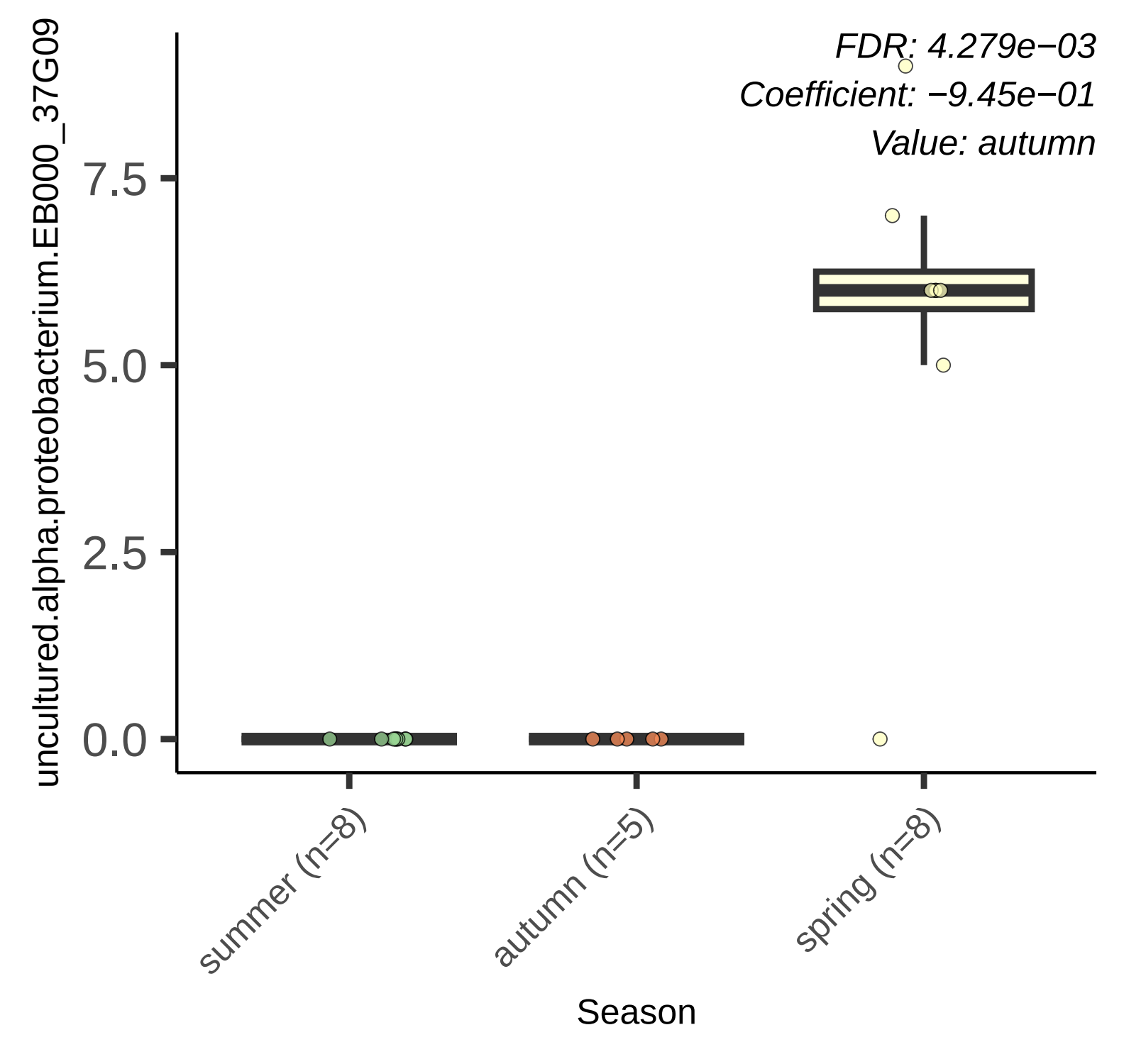

FDR: 3.607e−03
Coefficient: −2.02e+00
Value: autumn
Tenacibaculum.dicentrarchi
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

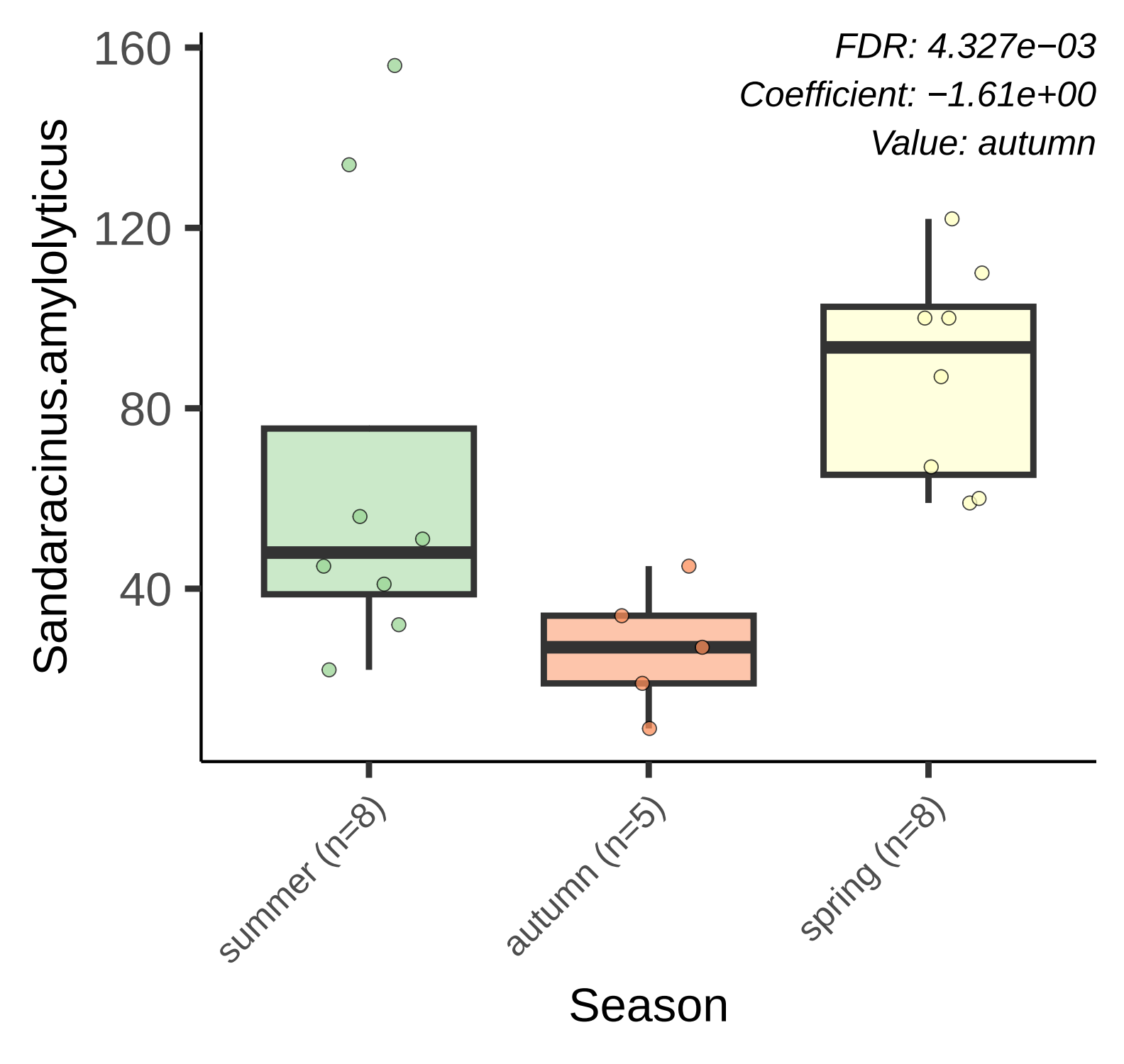

FDR: 3.687e−03
Coefficient: 1.47e+00
Value: autumn
Gordonibacter.pamelaeae
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

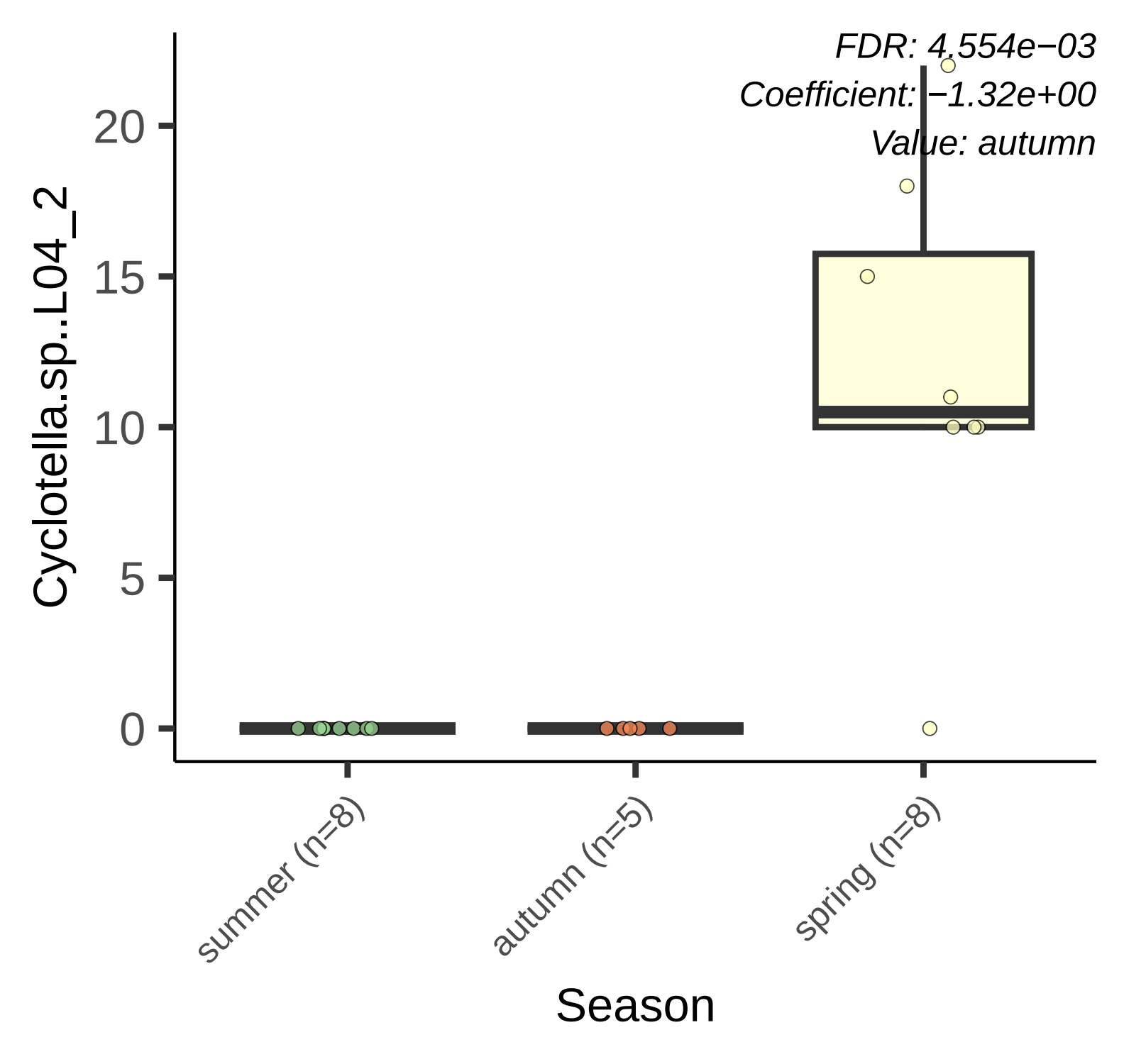

FDR: 3.950e−03
Coefficient: 2.04e+00
Value: autumn
Fulvimarina.pelagi
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

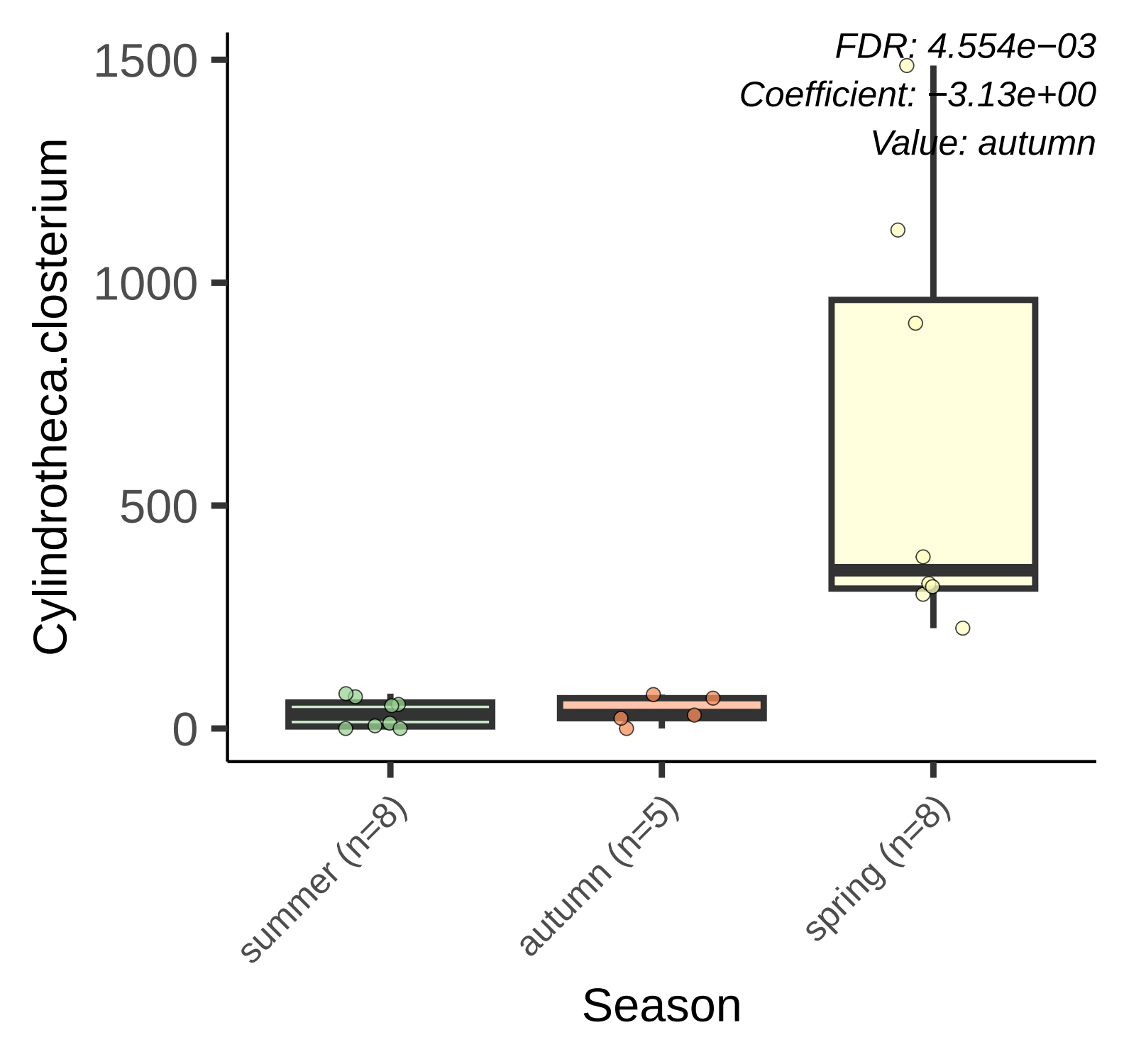

FDR: 3.996e−03
Coefficient: −2.03e+00
Value: autumn
Paracyclopina.nana
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

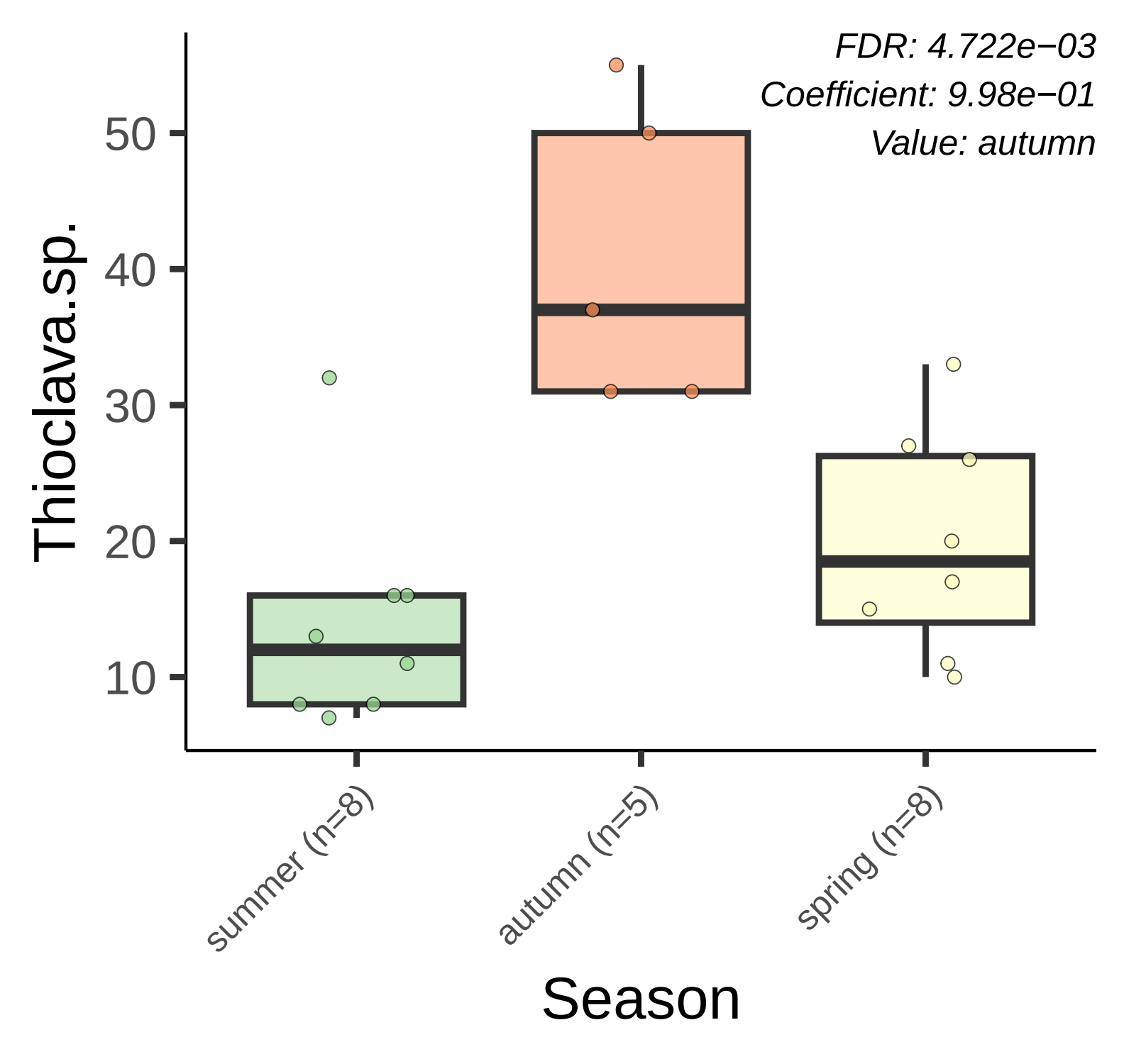

FDR: 4.045e−03
Coefficient: −1.65e+00
Value: autumn
uncultured.Rhodobacterales.bacterium.HF4000_03E1
75
50
25
summer (n=8)
autumn (n=5)
spring (n=8)
Season

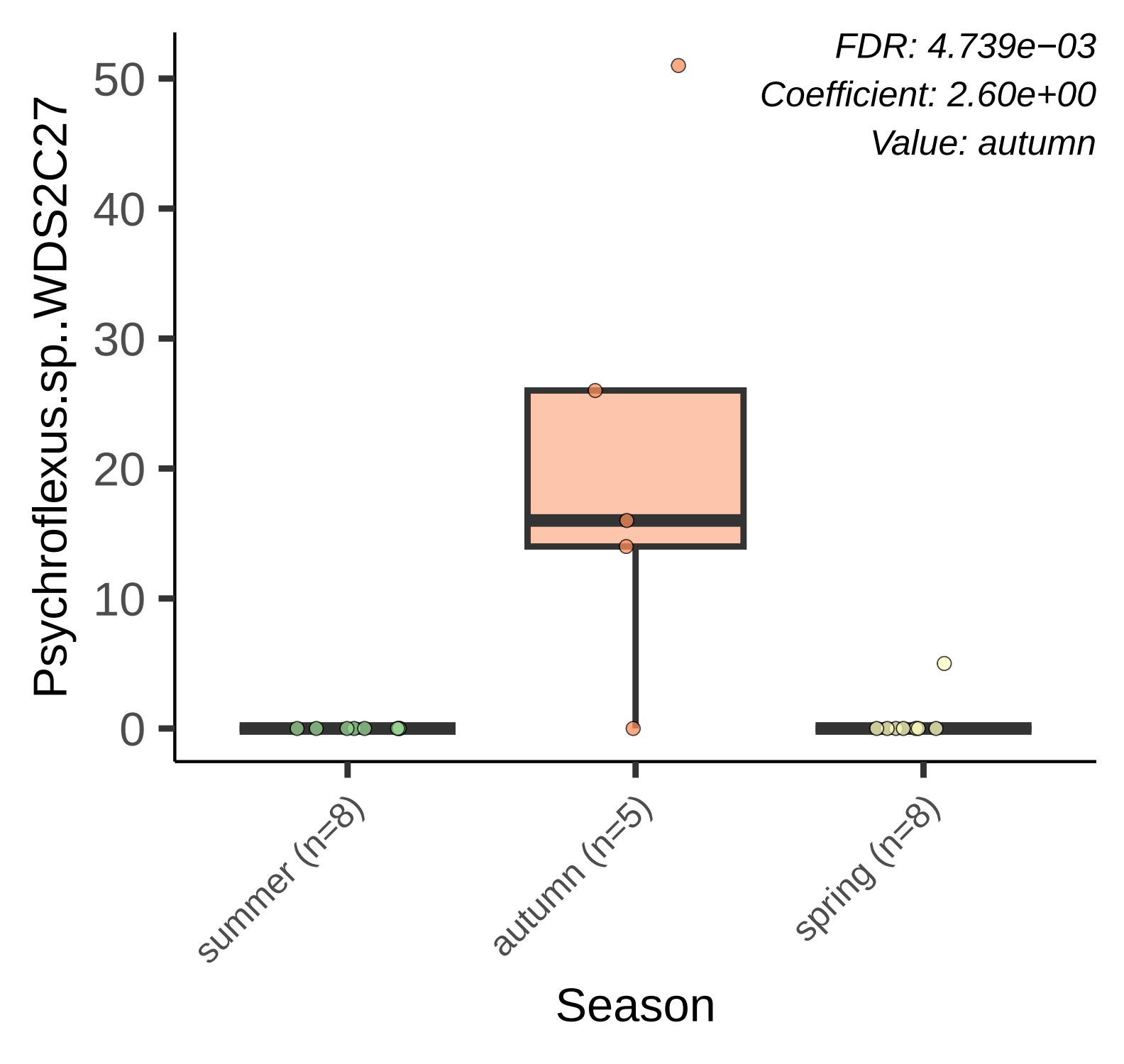

FDR: 4.279e−03
Coefficient: −9.45e−01
Value: autumn
uncultured.alpha.proteobacterium.EB000_37G09
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

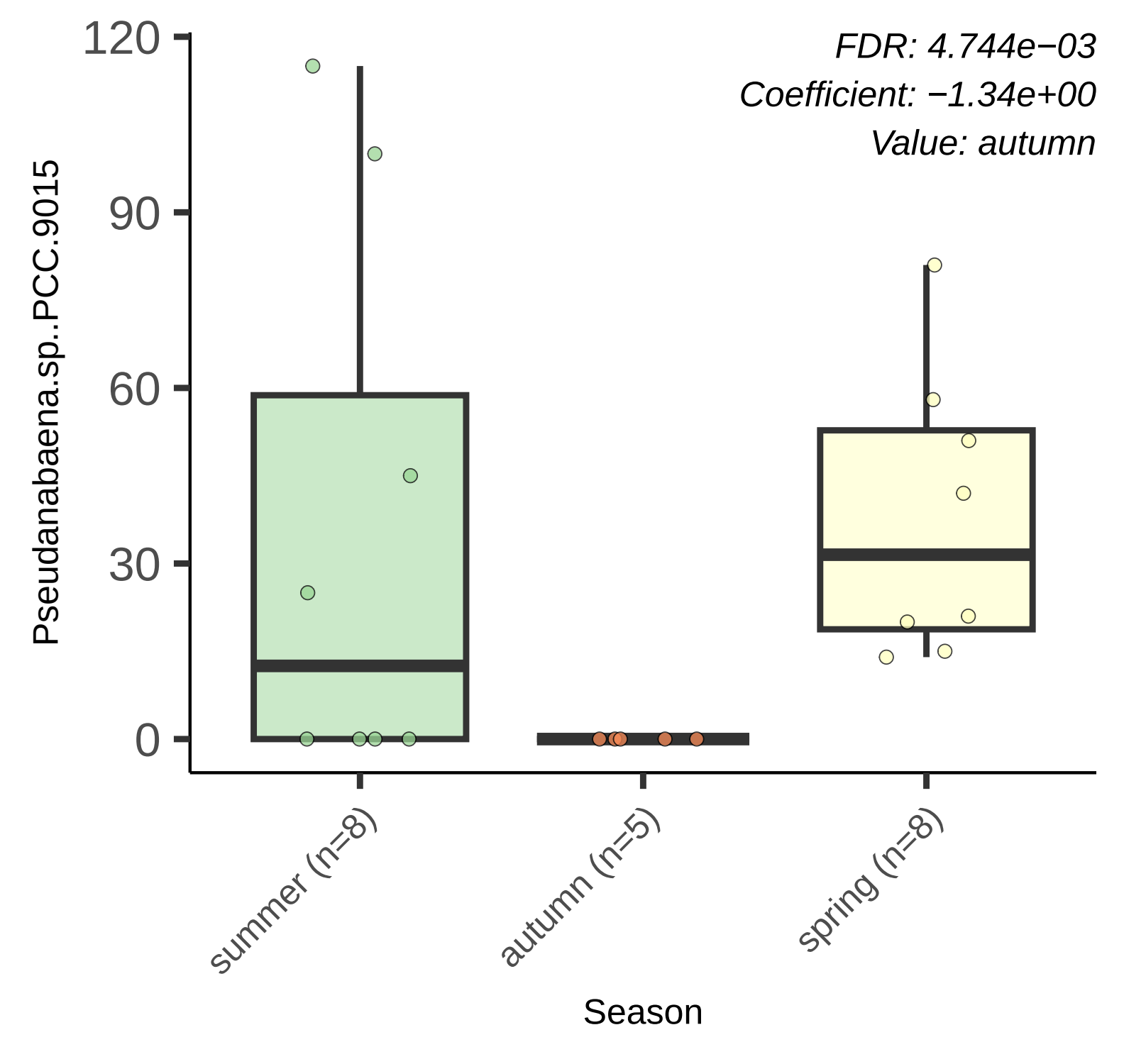

FDR: 4.327e−03
Coefficient: −1.61e+00
Value: autumn
Sandaracinus.amylolyticus
160
120
80
40
summer (n=8)
autumn (n=5)
spring (n=8)
Season

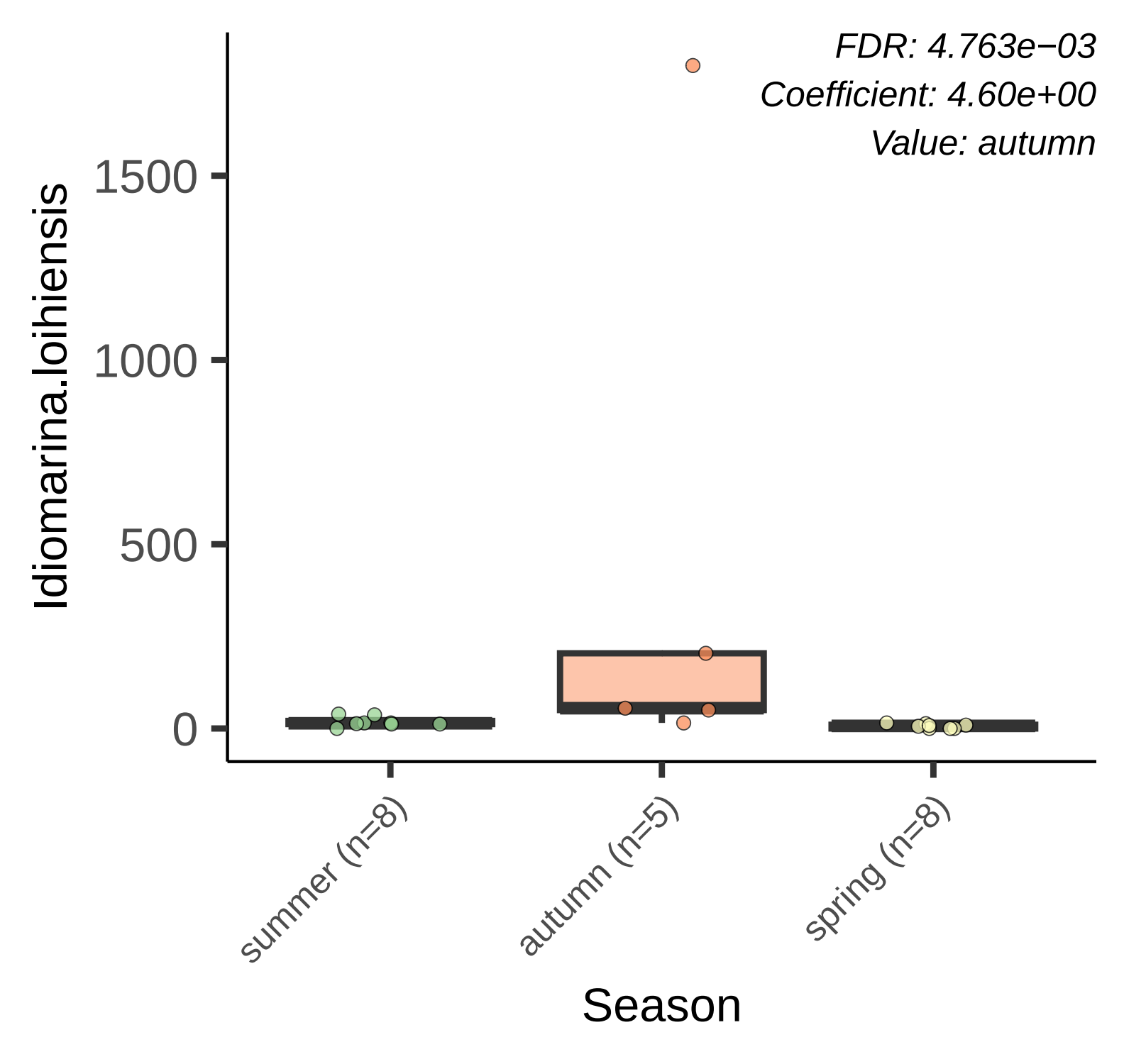

FDR: 4.554e−03
Coefficient: −1.32e+00
Value: autumn
Cyclotella.sp..L04_2
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

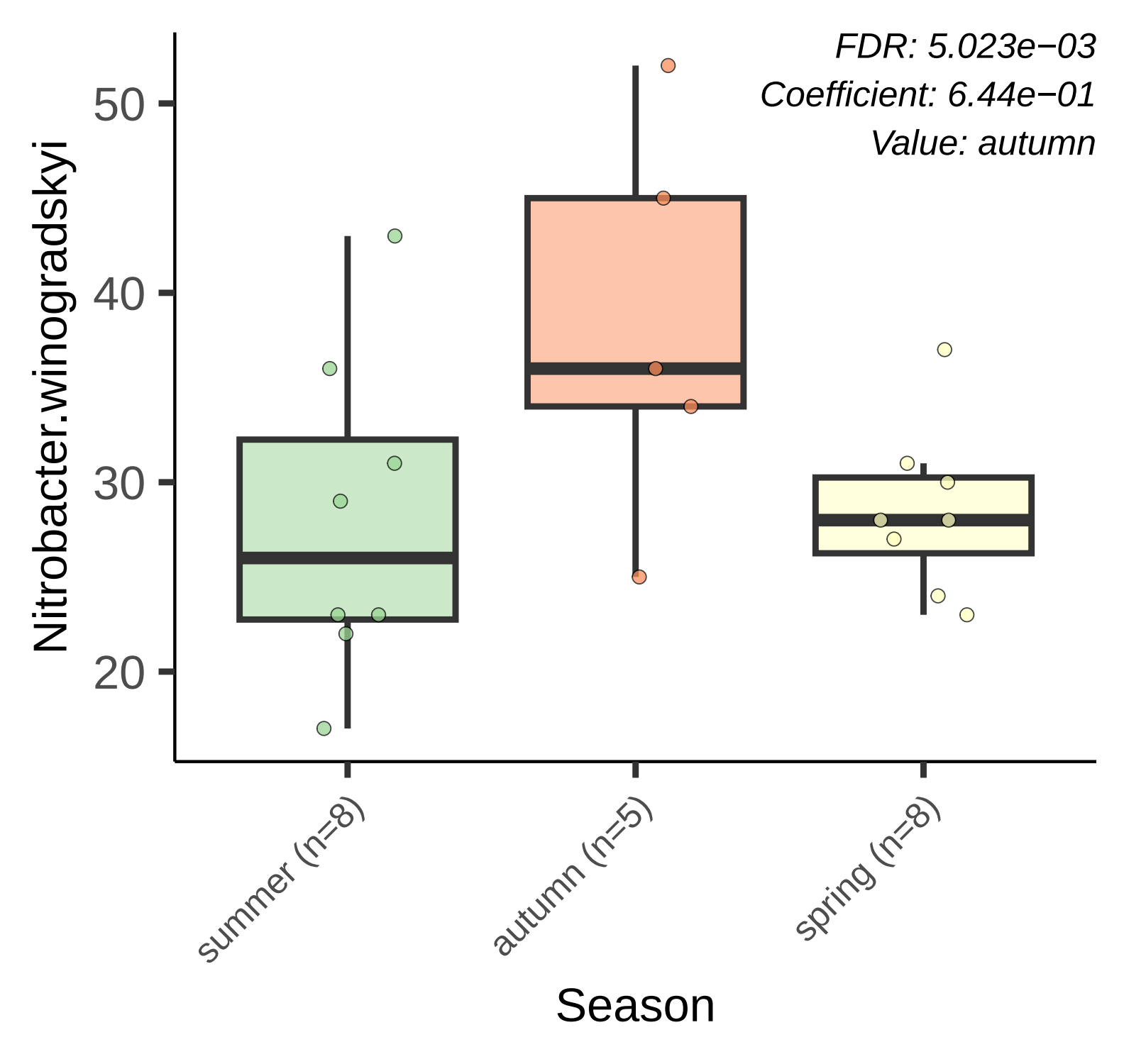

FDR: 4.554e−03
Coefficient: −3.13e+00
Value: autumn
Cylindrotheca.closterium
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

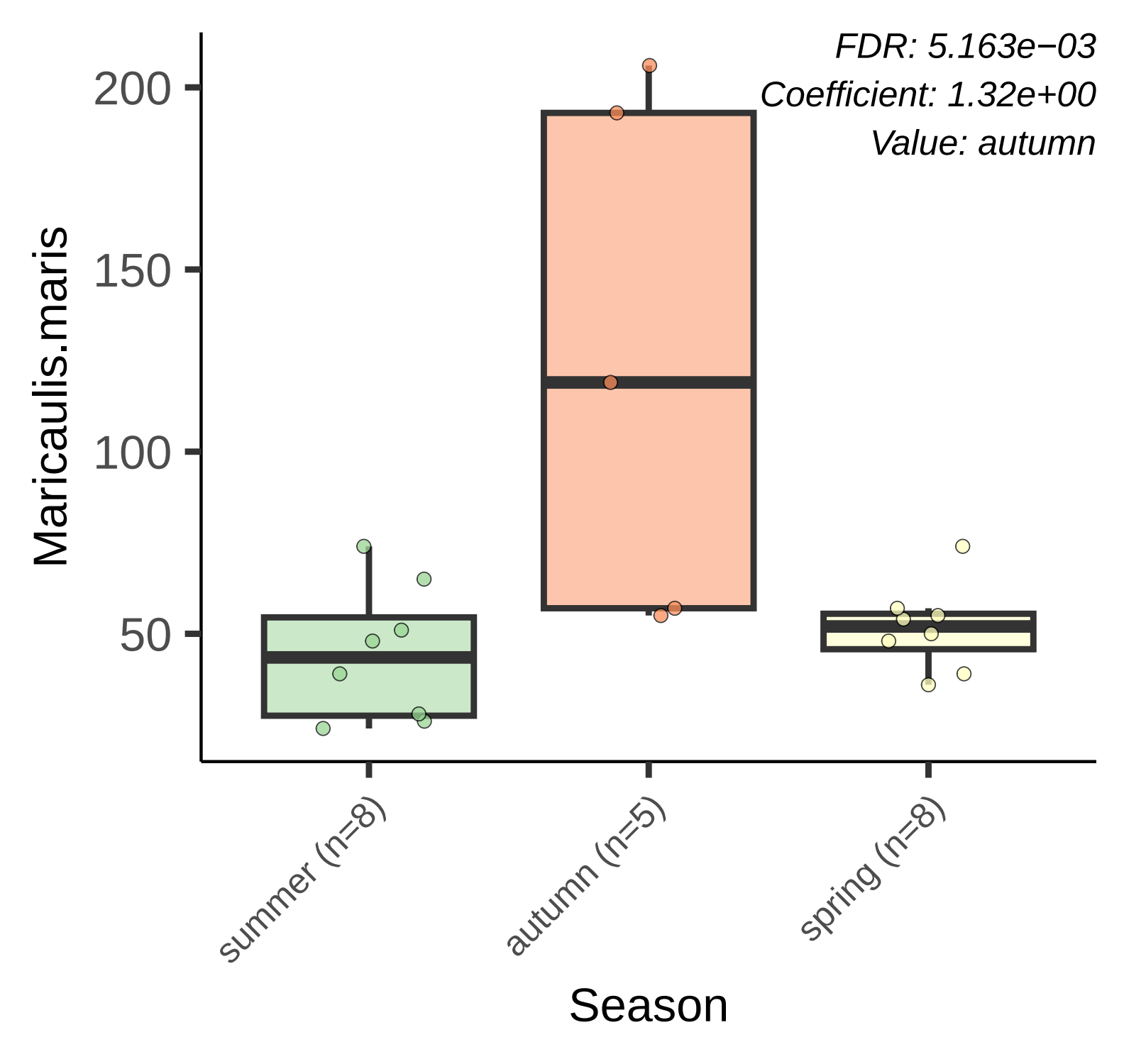

FDR: 4.722e−03
Coefficient: 9.98e−01
Value: autumn
Thioclava.sp.
50
40
30
20
10
summer (n=8)
autumn (n=5)
spring (n=8)
Season

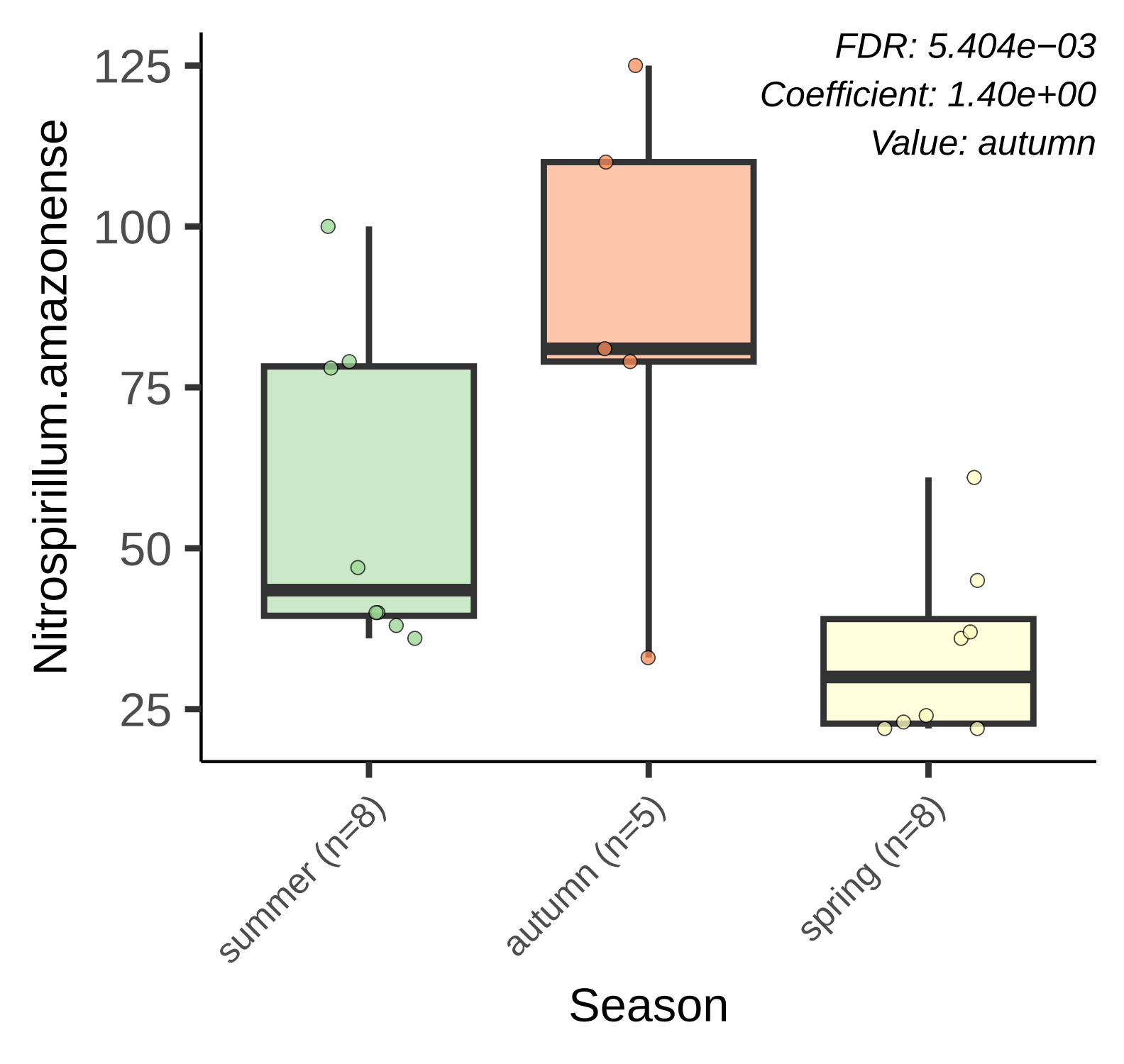

FDR: 4.739e−03
Coefficient: 2.60e+00
Value: autumn
Psychroflexus.sp..WDS2C27
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

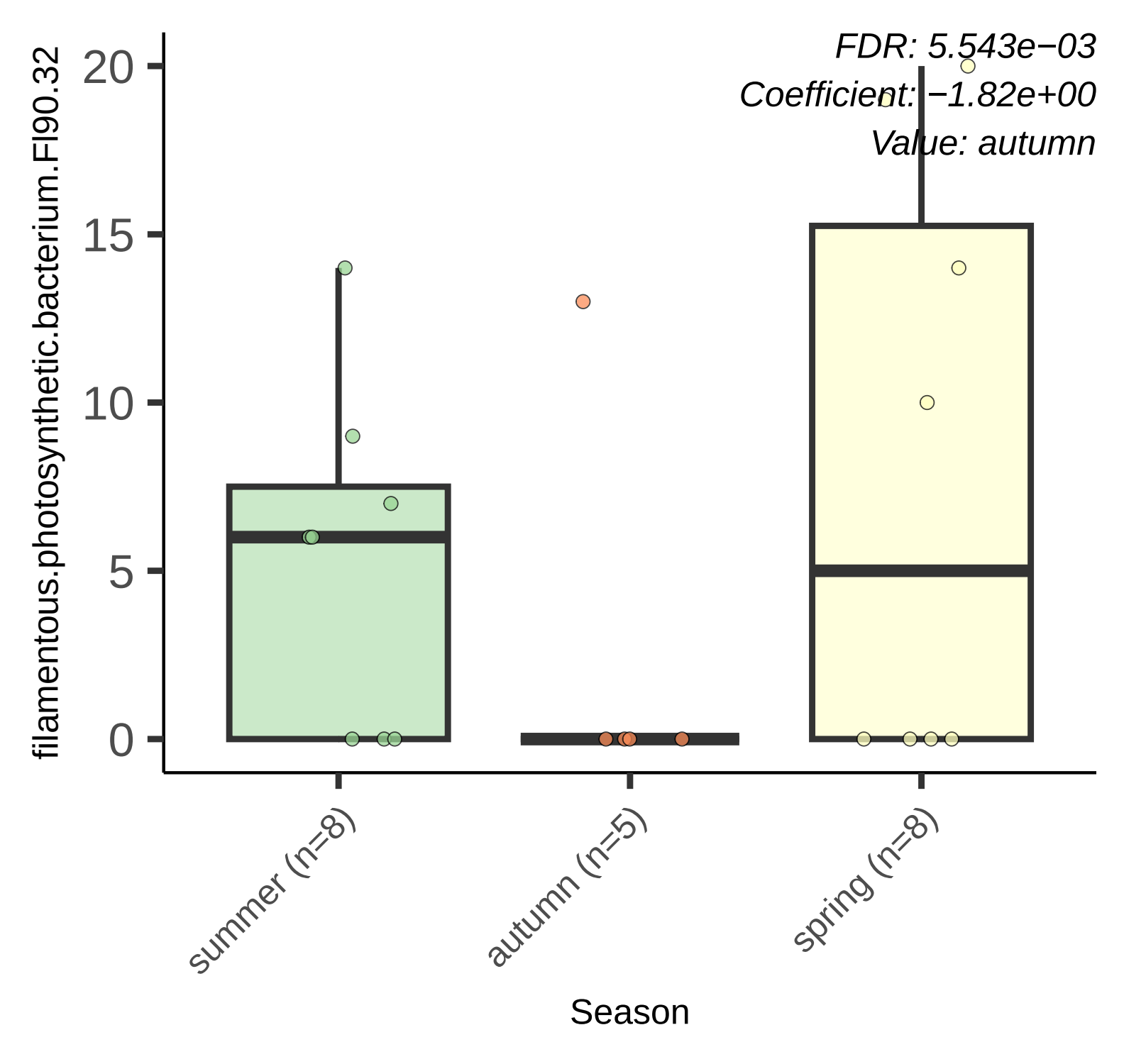

FDR: 4.744e−03
Coefficient: −1.34e+00
Value: autumn
Pseudanabaena.sp..PCC.9015
120
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

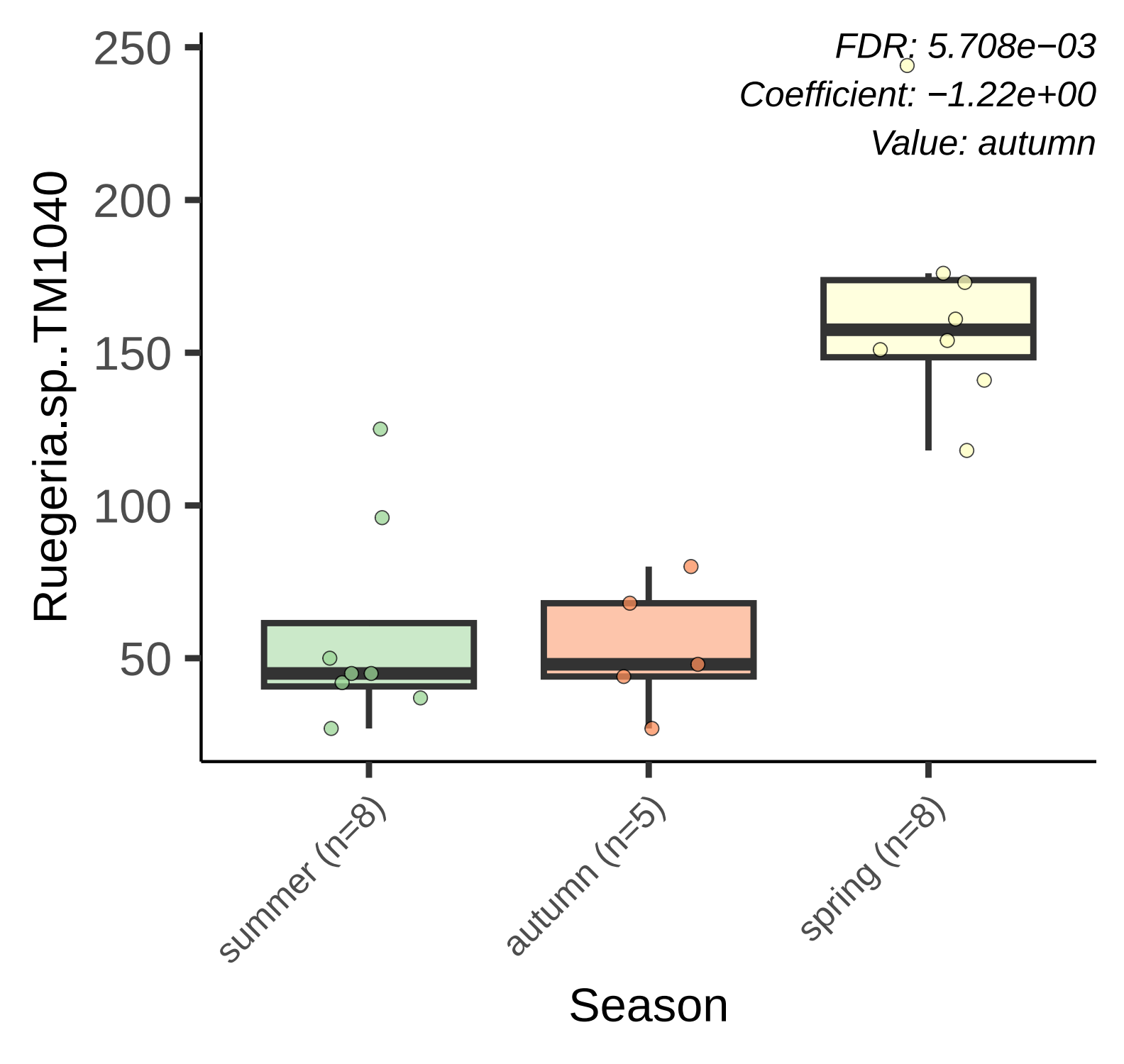

FDR: 4.763e−03
Coefficient: 4.60e+00
Value: autumn
Idiomarina.loihiensis
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

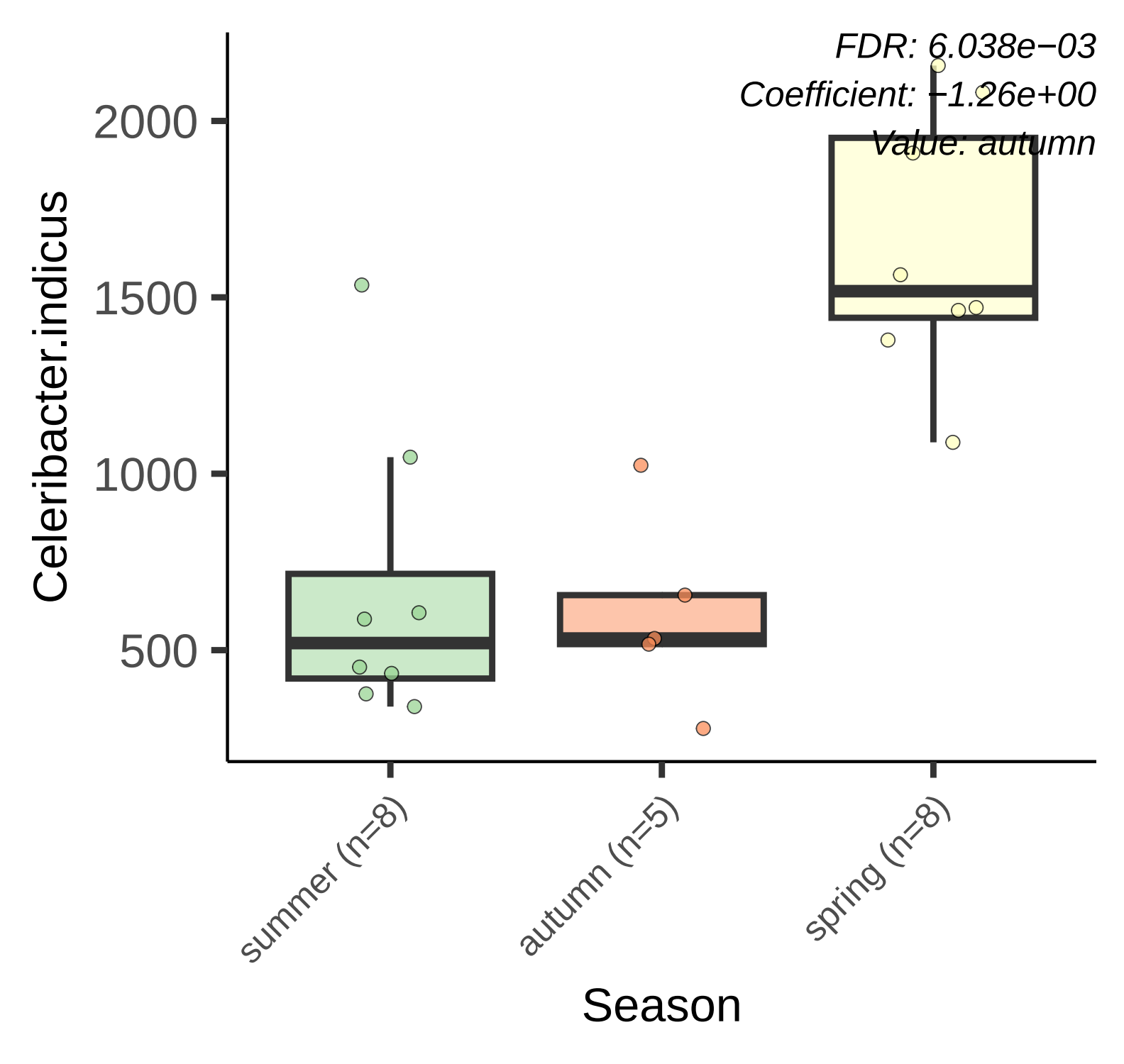

FDR: 5.023e−03
Coefficient: 6.44e−01
Value: autumn
Nitrobacter.winogradskyi
50
40
30
20
summer (n=8)
autumn (n=5)
spring (n=8)
Season

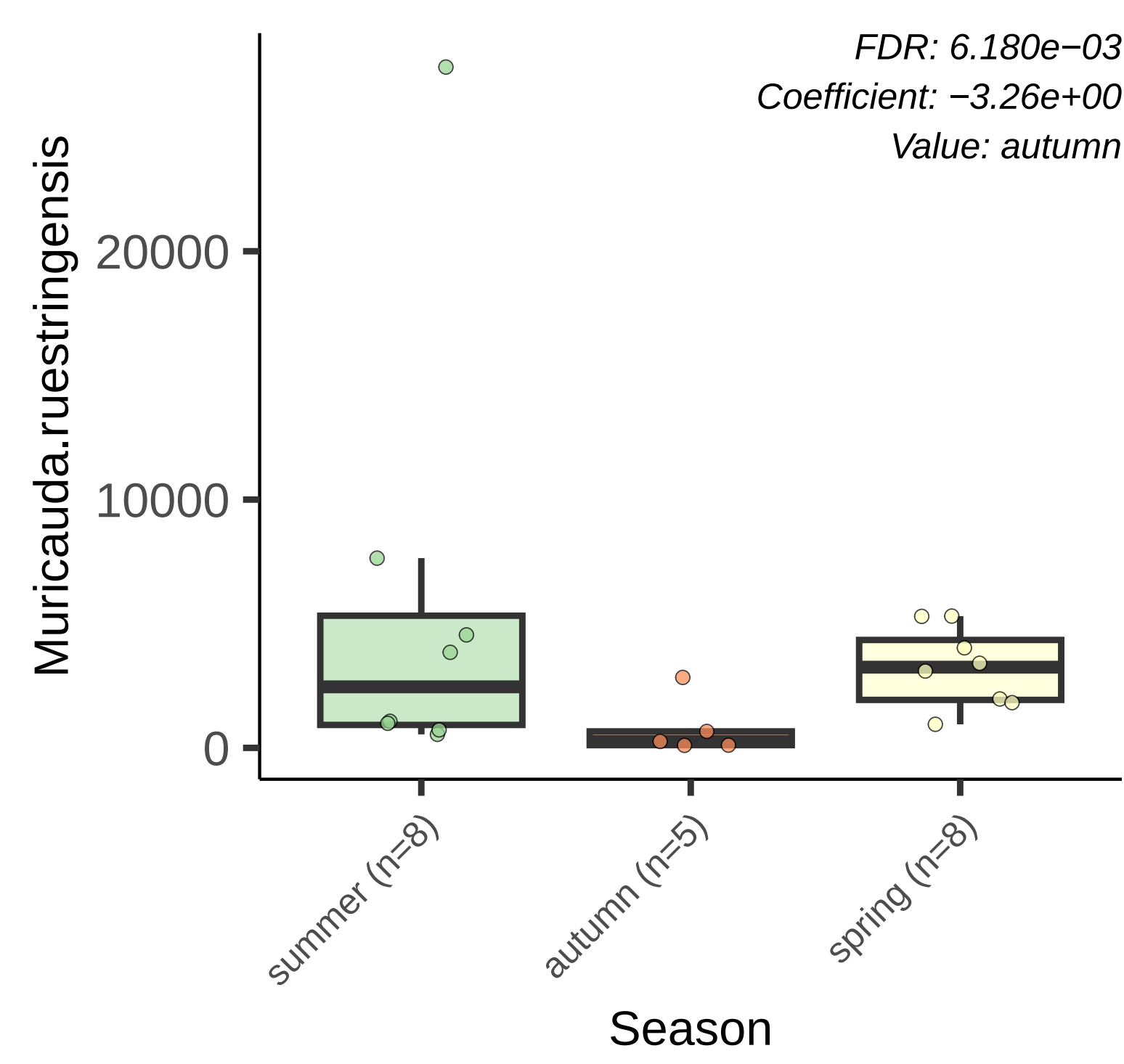

FDR: 5.163e−03
Coefficient: 1.32e+00
Value: autumn
Maricaulis.maris
200
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

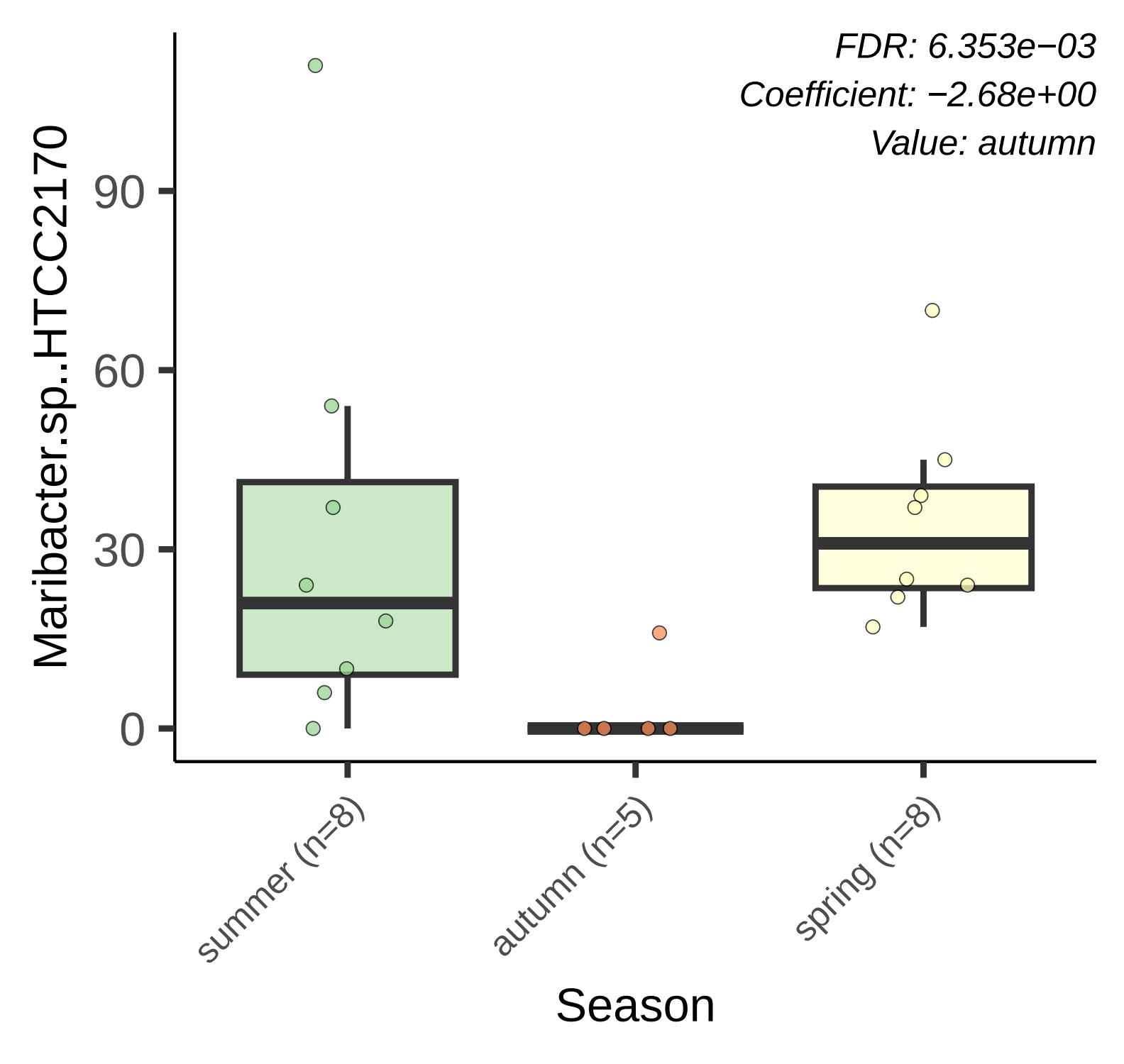

FDR: 5.404e−03
Coefficient: 1.40e+00
Value: autumn
Nitrospirillum.amazonense
125
100
75
50
25
summer (n=8)
autumn (n=5)
spring (n=8)
Season

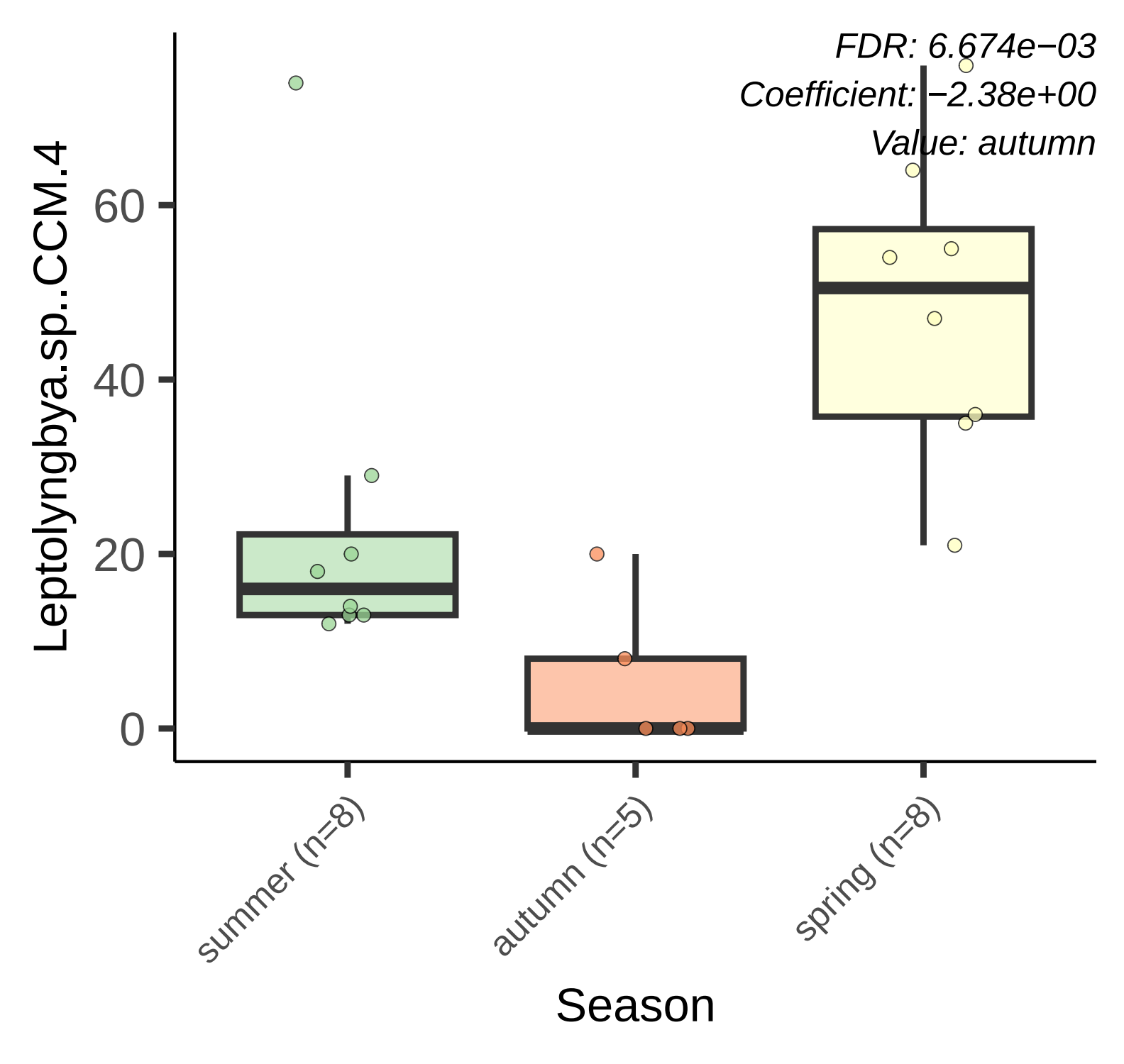

FDR: 5.543e−03
Coefficient: −1.82e+00
Value: autumn
filamentous.photosynthetic.bacterium.FI90.32
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

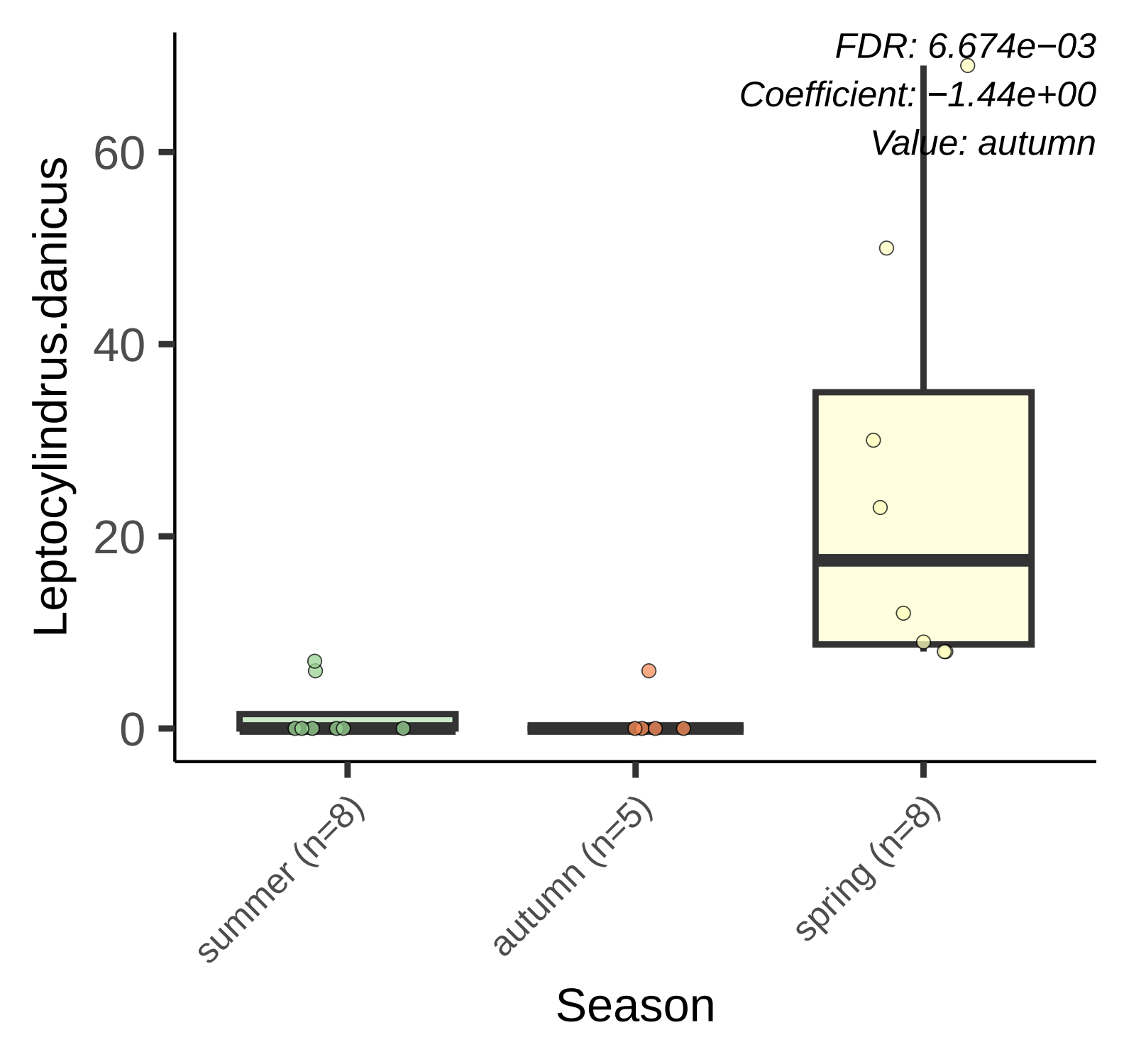

FDR: 5.708e−03
Coefficient: −1.22e+00
Value: autumn
Ruegeria.sp..TM1040
250
200
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

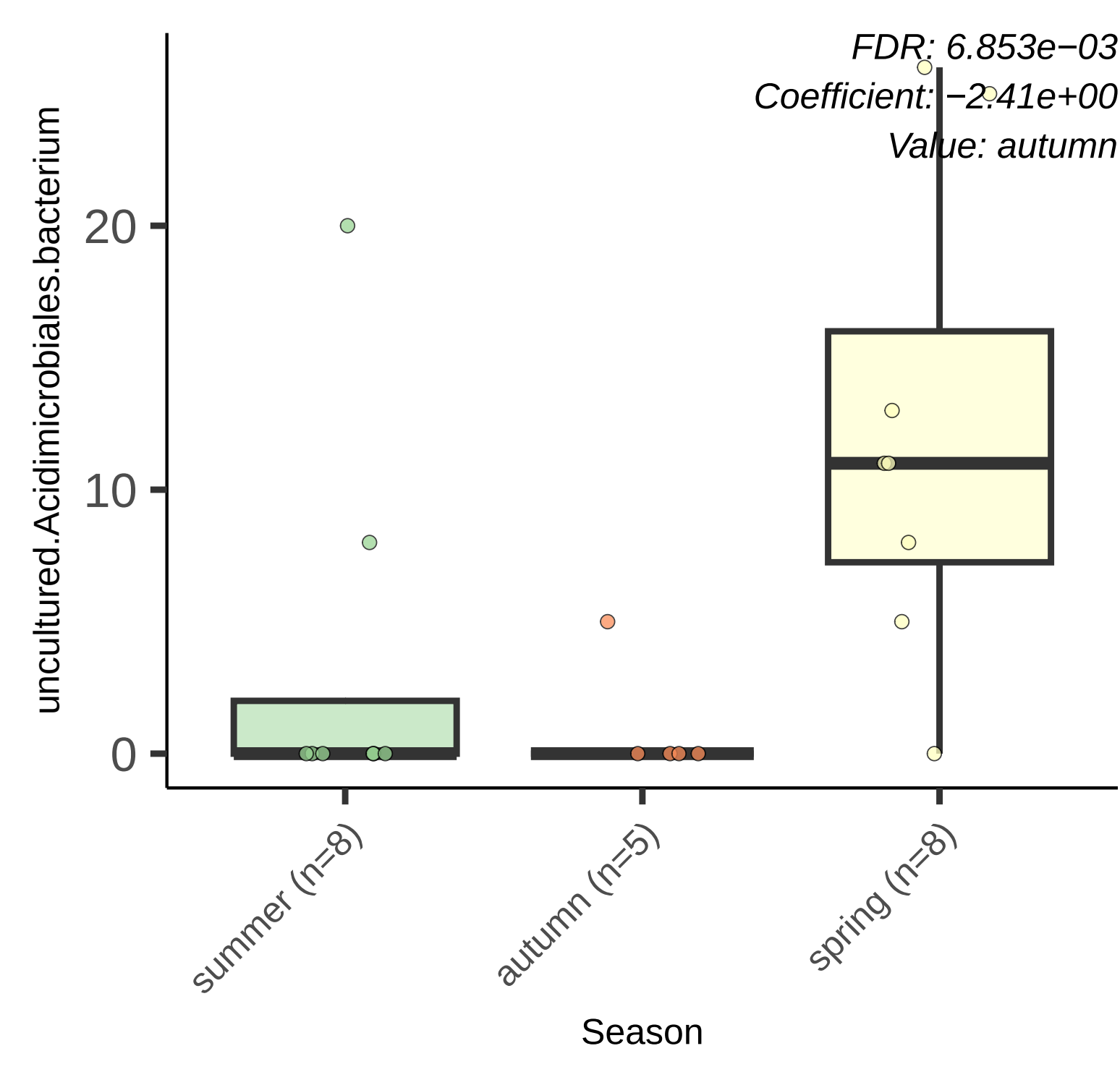

FDR: 6.038e−03
Coefficient: −1.26e+00
Value: autumn
2000
1500
1000
500
Celeribacter.indicus
summer (n=8)
autumn (n=5)
spring (n=8)
Season

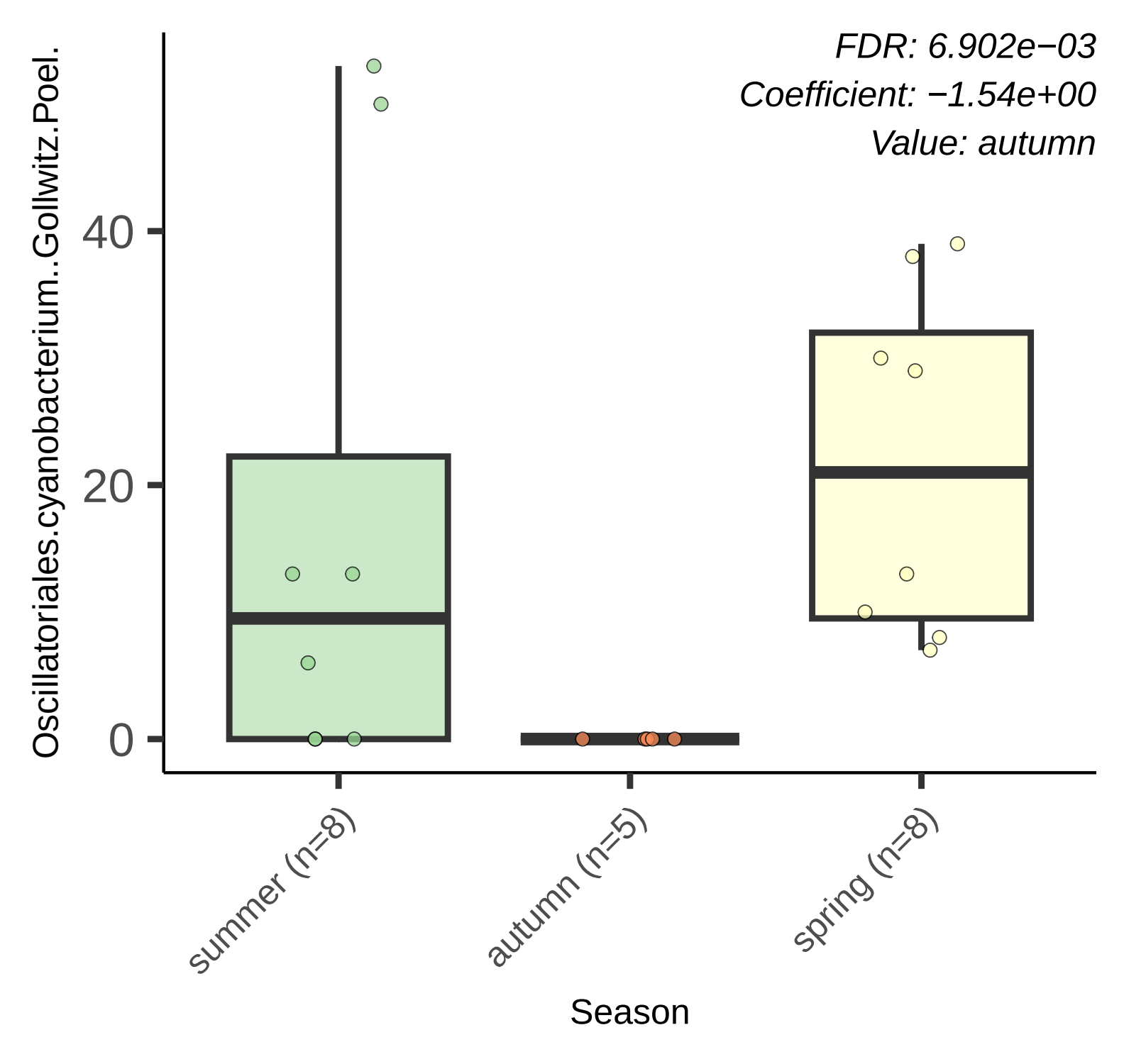

FDR: 6.180e−03
Coefficient: −3.26e+00
Value: autumn
Muricauda.ruestringensis
20000
10000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

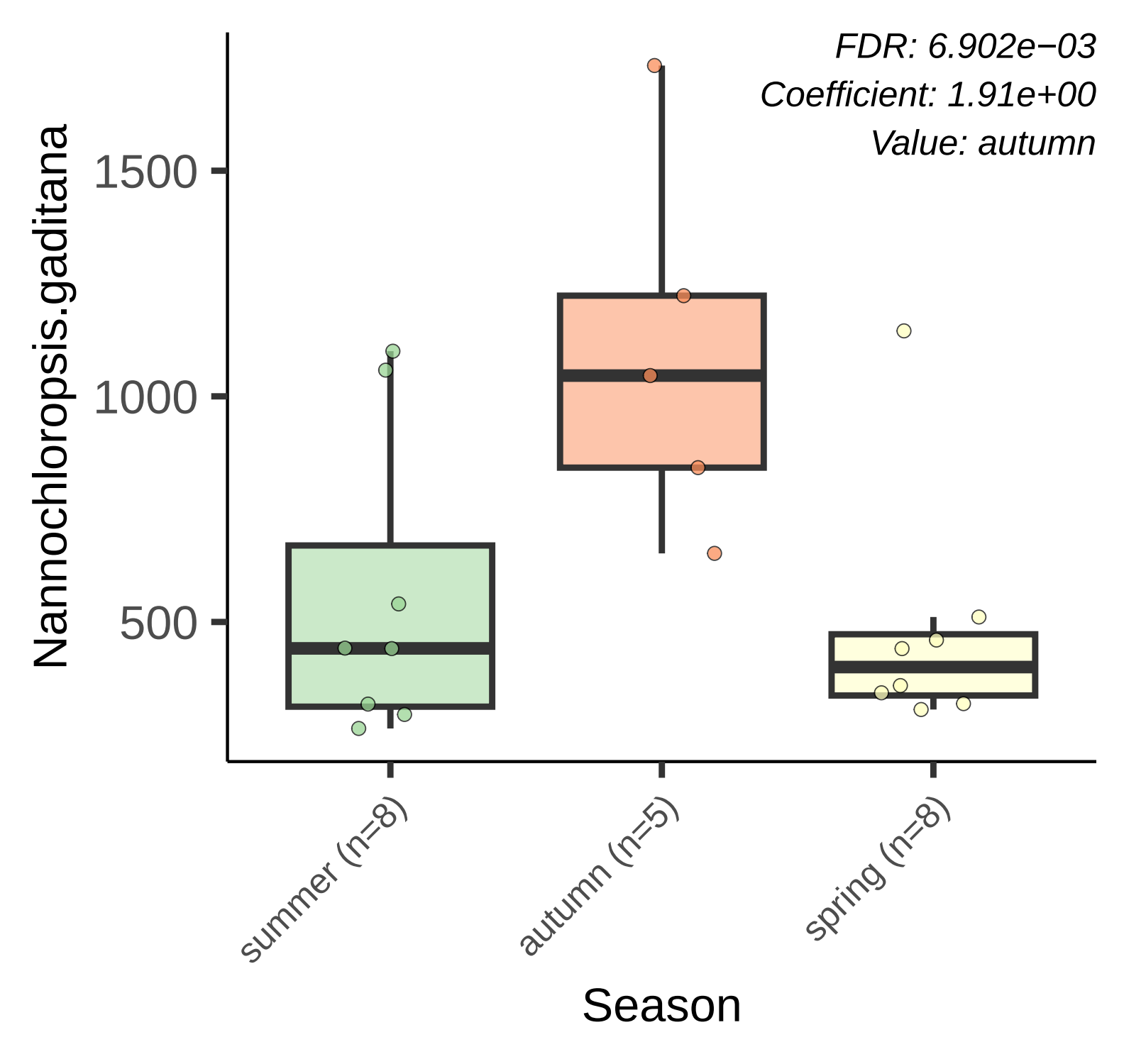

FDR: 6.353e−03
Coefficient: −2.68e+00
Value: autumn
Maribacter.sp..HTCC2170
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

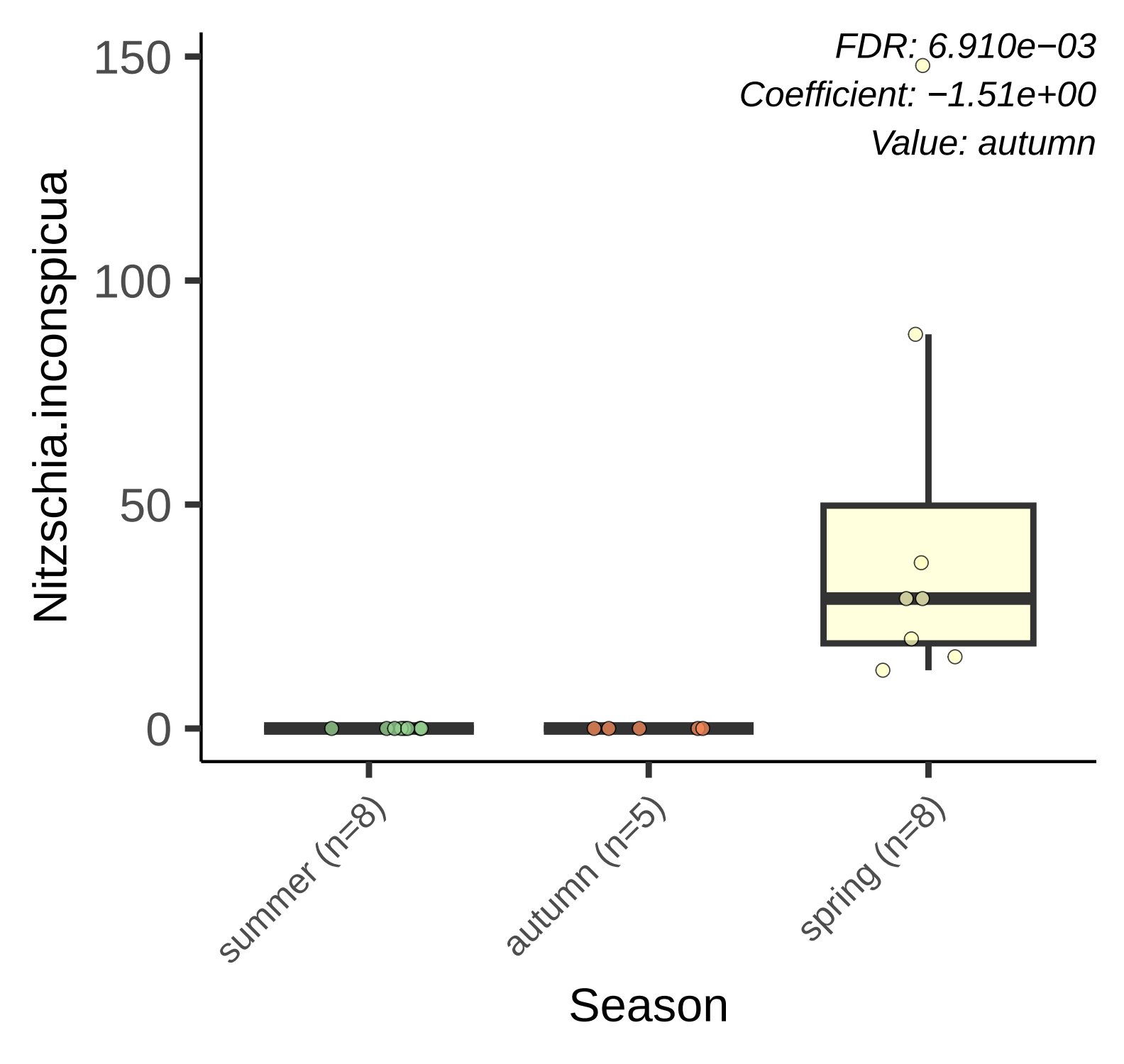

FDR: 6.674e−03
Coefficient: −2.38e+00
Value: autumn
Leptolyngbya.sp..CCM.4
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

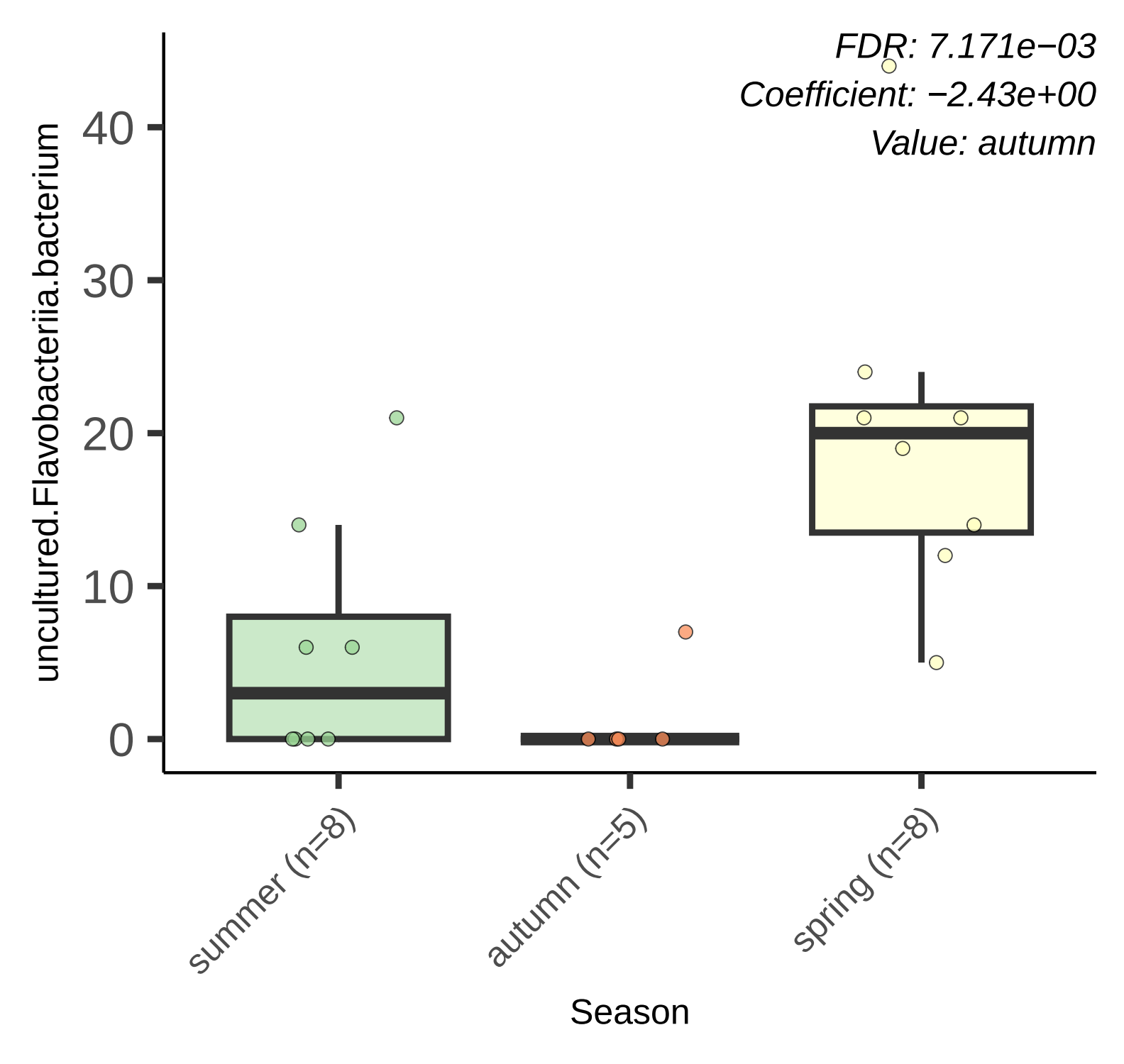

FDR: 6.674e−03
Coefficient: −1.44e+00
Value: autumn
Leptocylindrus.danicus
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

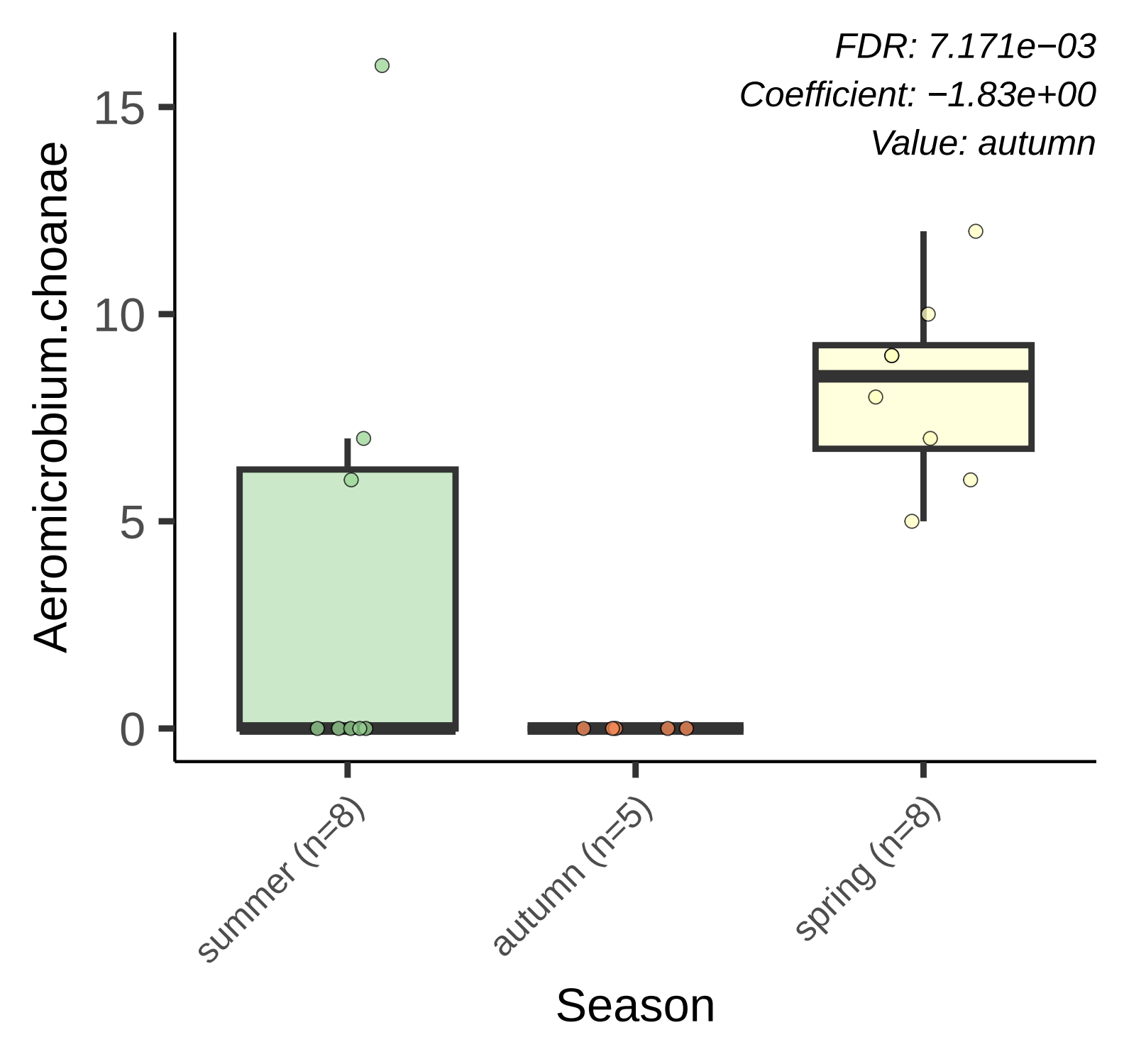

FDR: 6.853e−03
Coefficient: −2.41e+00
Value: autumn
uncultured.Acidimicrobiales.bacterium
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

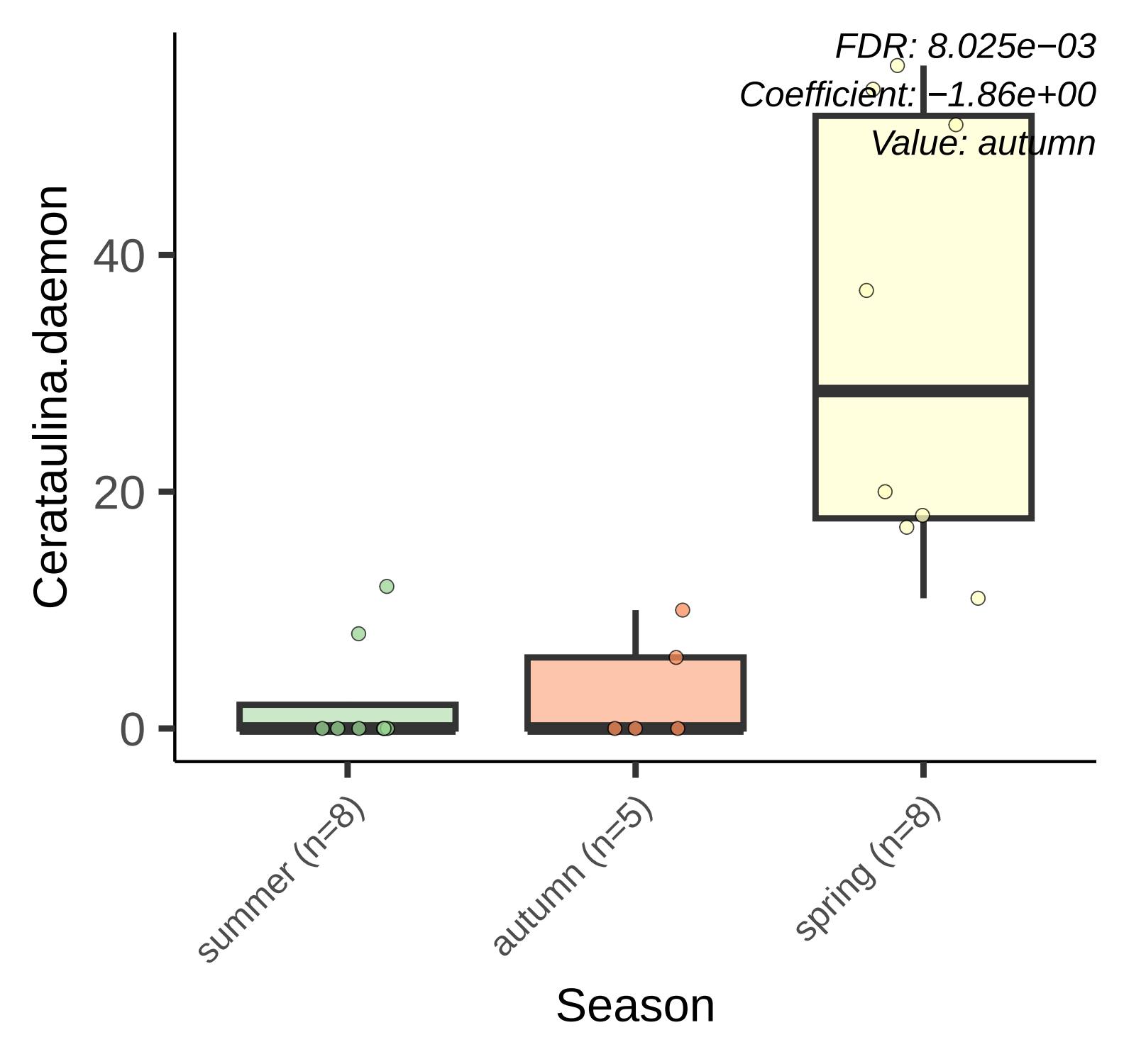

FDR: 6.902e−03
Coefficient: −1.54e+00
Value: autumn
Oscillatoriales.cyanobacterium..Gollwitz.Poel.
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

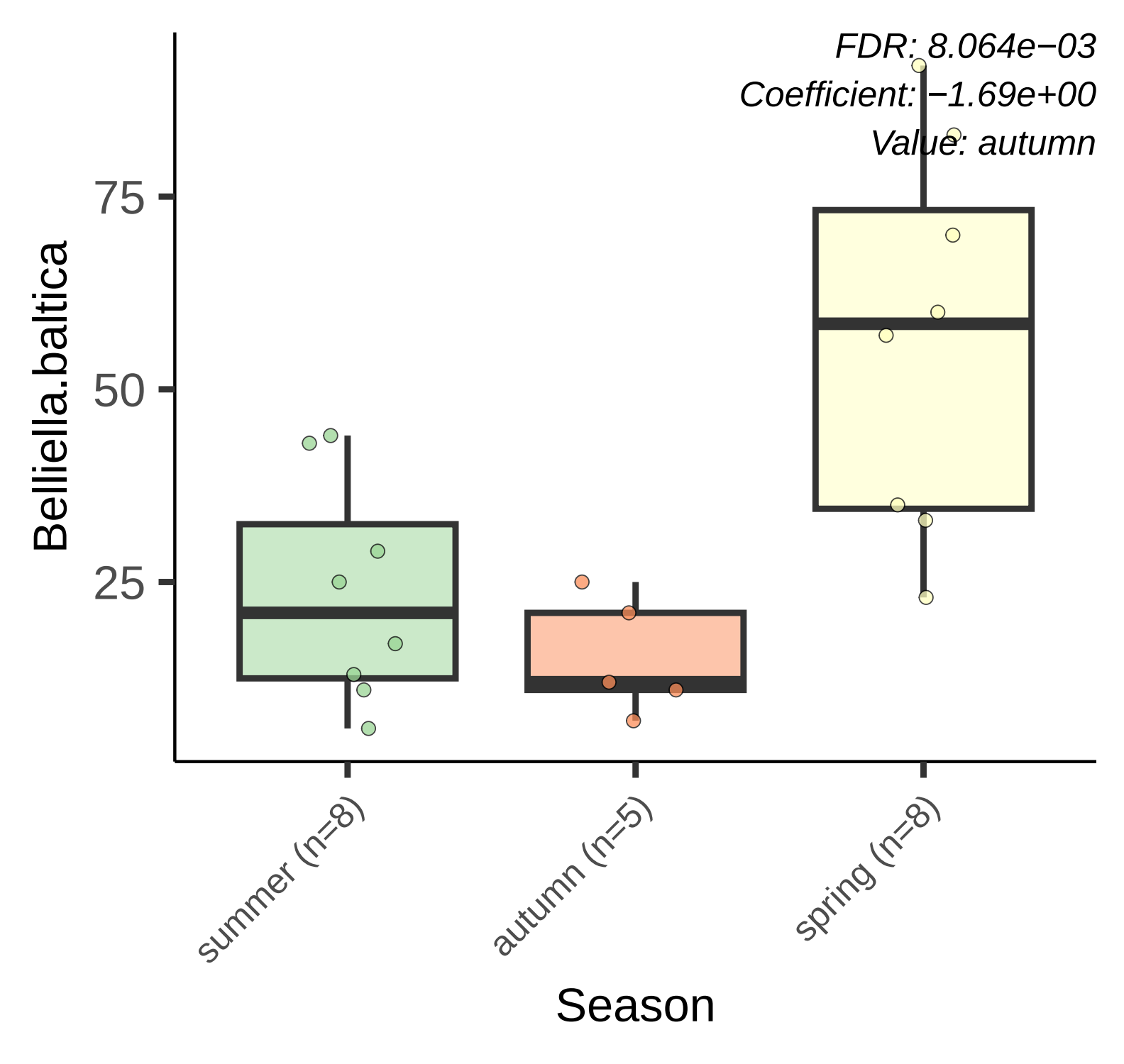

FDR: 6.902e−03
Coefficient: 1.91e+00
Value: autumn
Nannochloropsis.gaditana
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

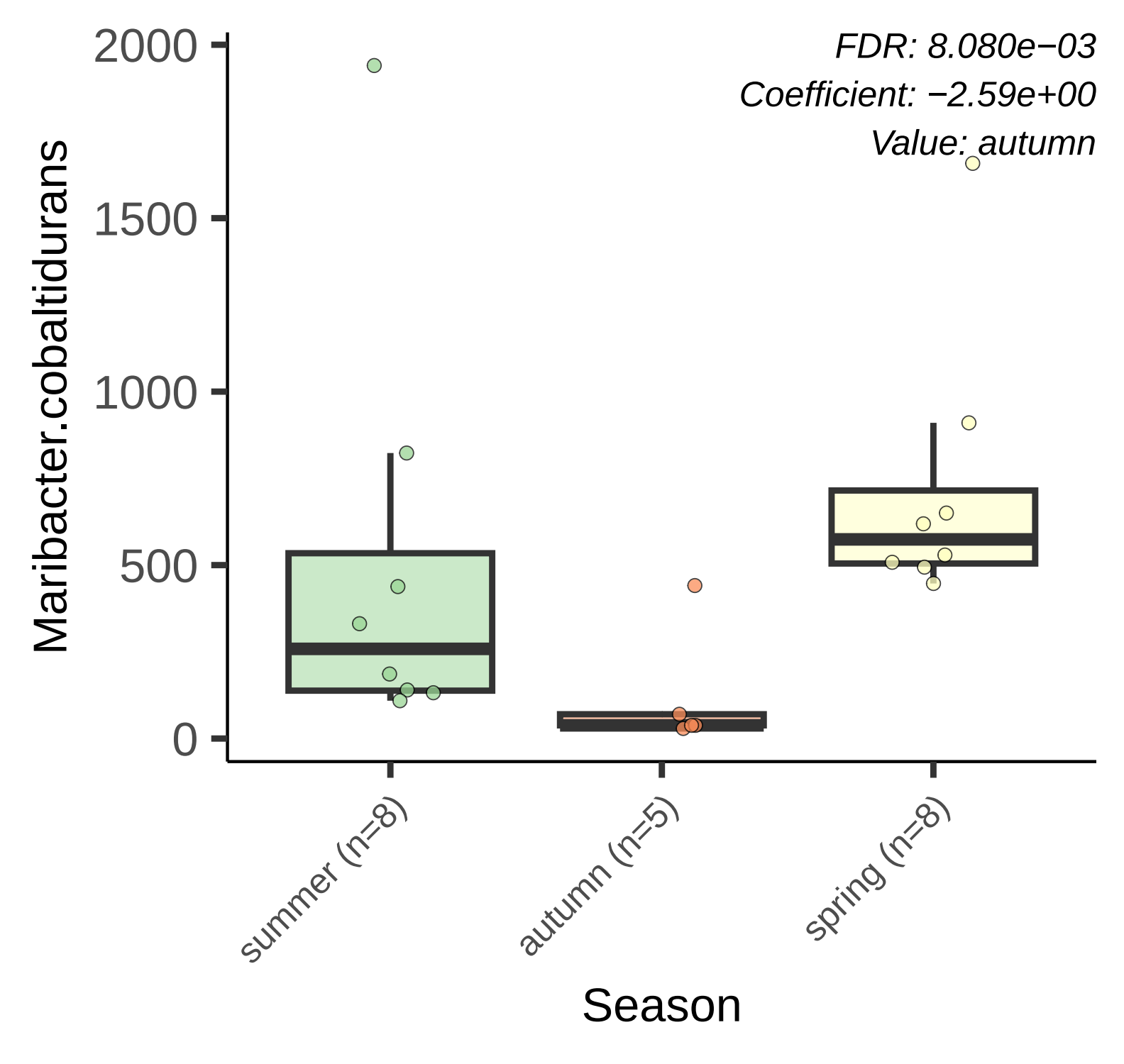

FDR: 6.910e−03
Coefficient: −1.51e+00
Value: autumn
Nitzschia.inconspicua
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

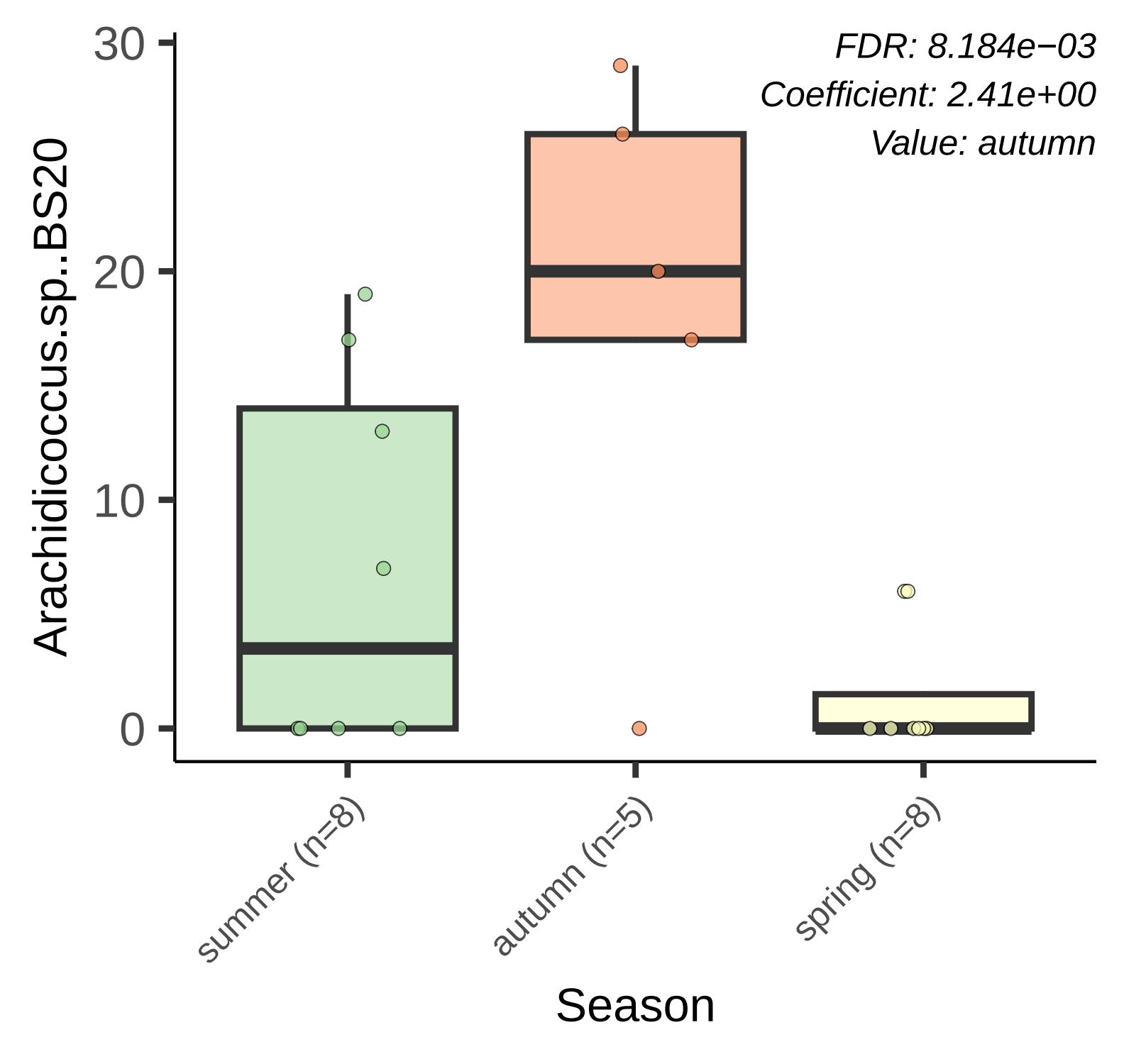

FDR: 7.171e−03
Coefficient: −2.43e+00
Value: autumn
uncultured.Flavobacteriia.bacterium
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

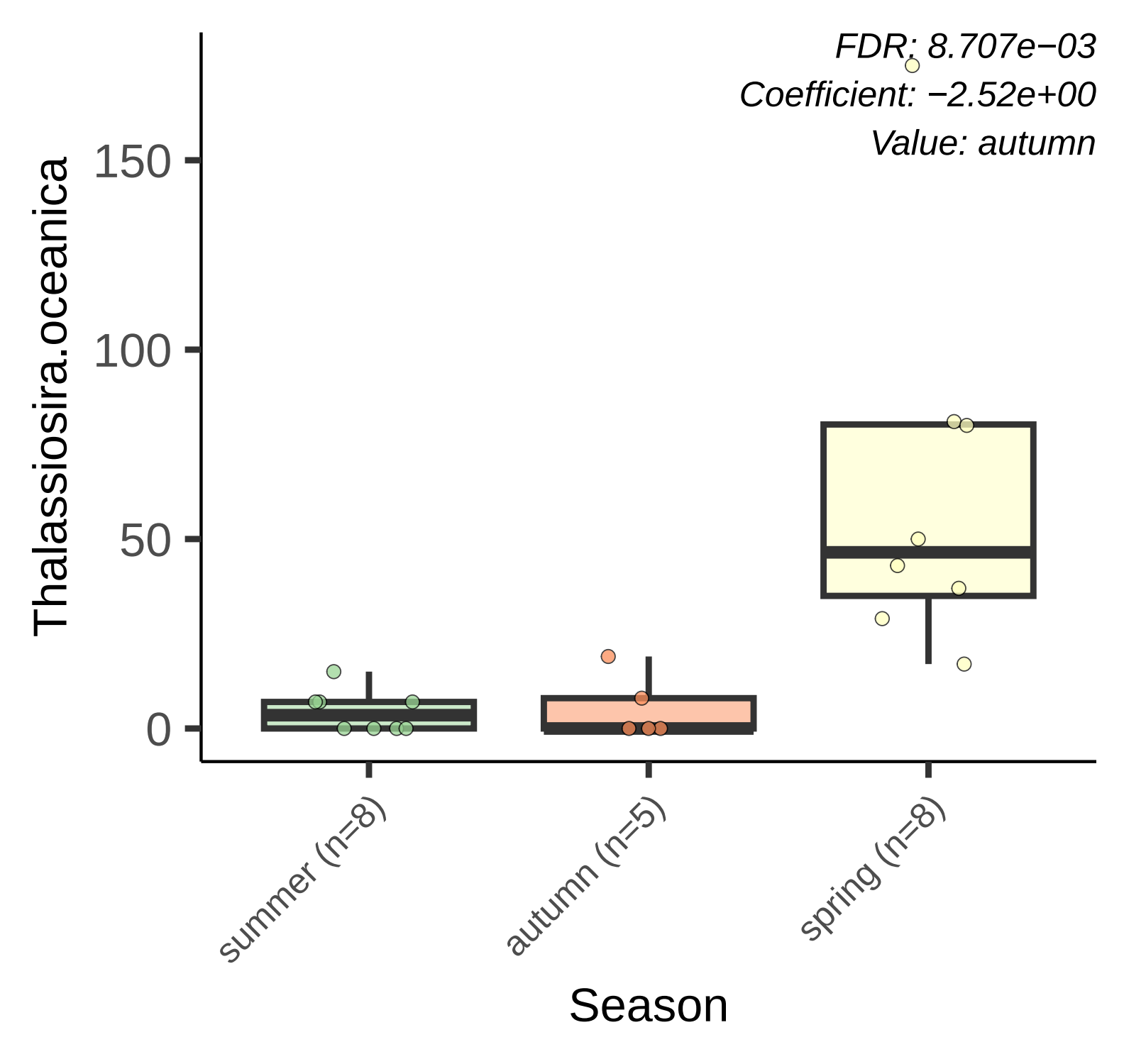

FDR: 7.171e−03
Coefficient: −1.83e+00
Value: autumn
Aeromicrobium.choanae
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

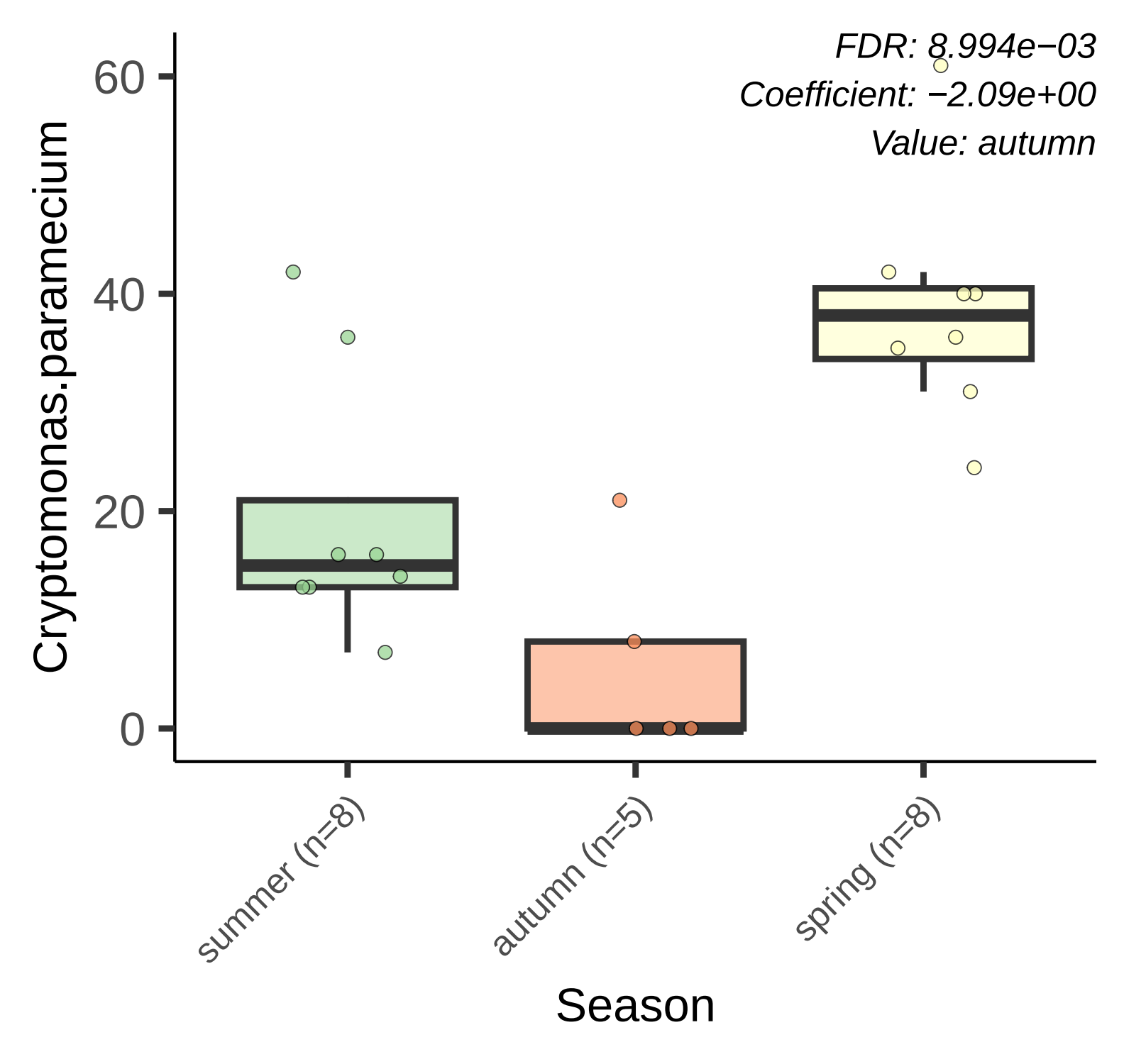

FDR: 8.025e−03
Coefficient: −1.86e+00
Value: autumn
Cerataulina.daemon
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

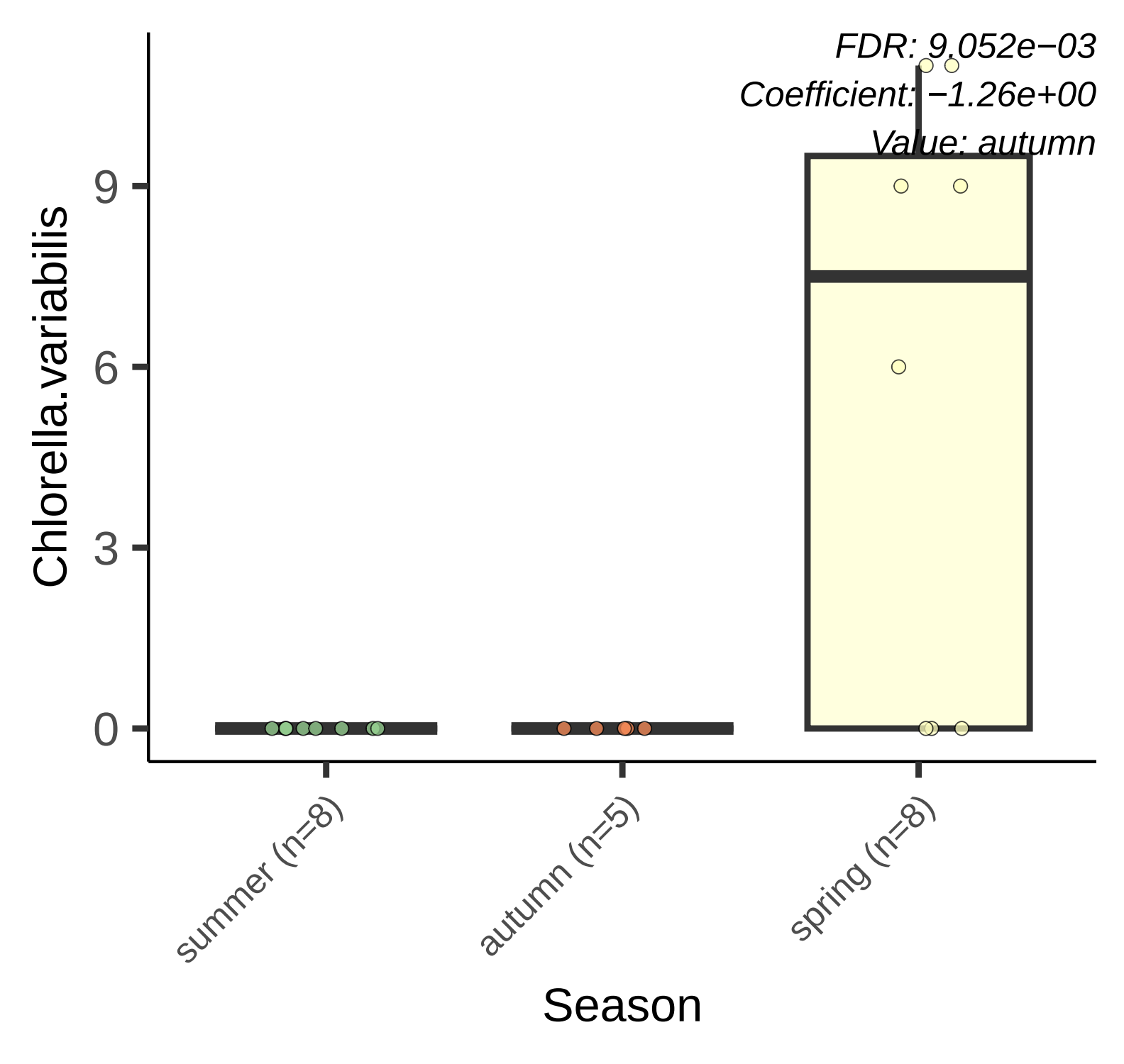

FDR: 8.064e−03
Coefficient: −1.69e+00
Value: autumn
Belliella.baltica
75
50
25
summer (n=8)
autumn (n=5)
spring (n=8)
Season

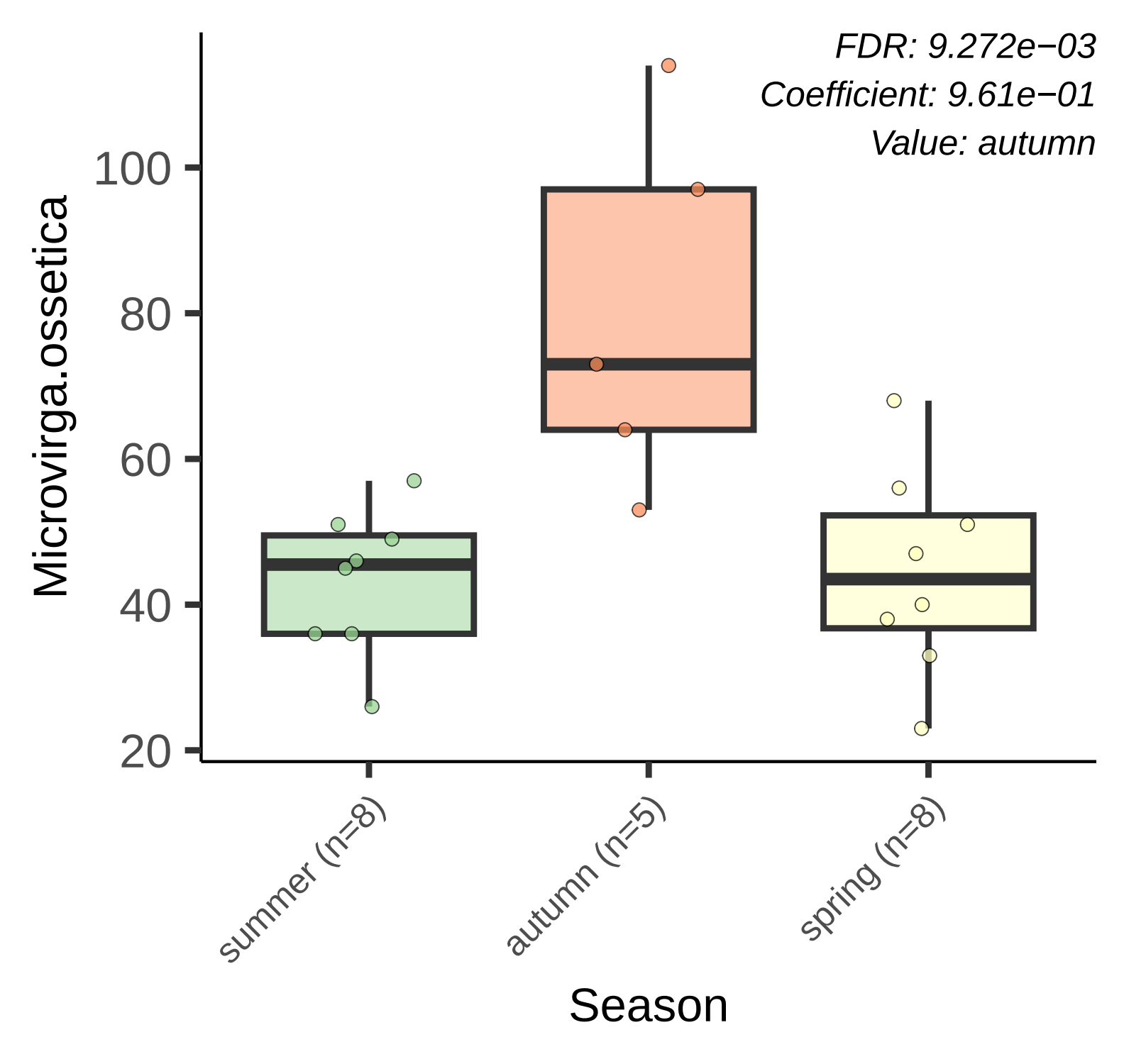

FDR: 8.080e−03
Coefficient: −2.59e+00
Value: autumn
Maribacter.cobaltidurans
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

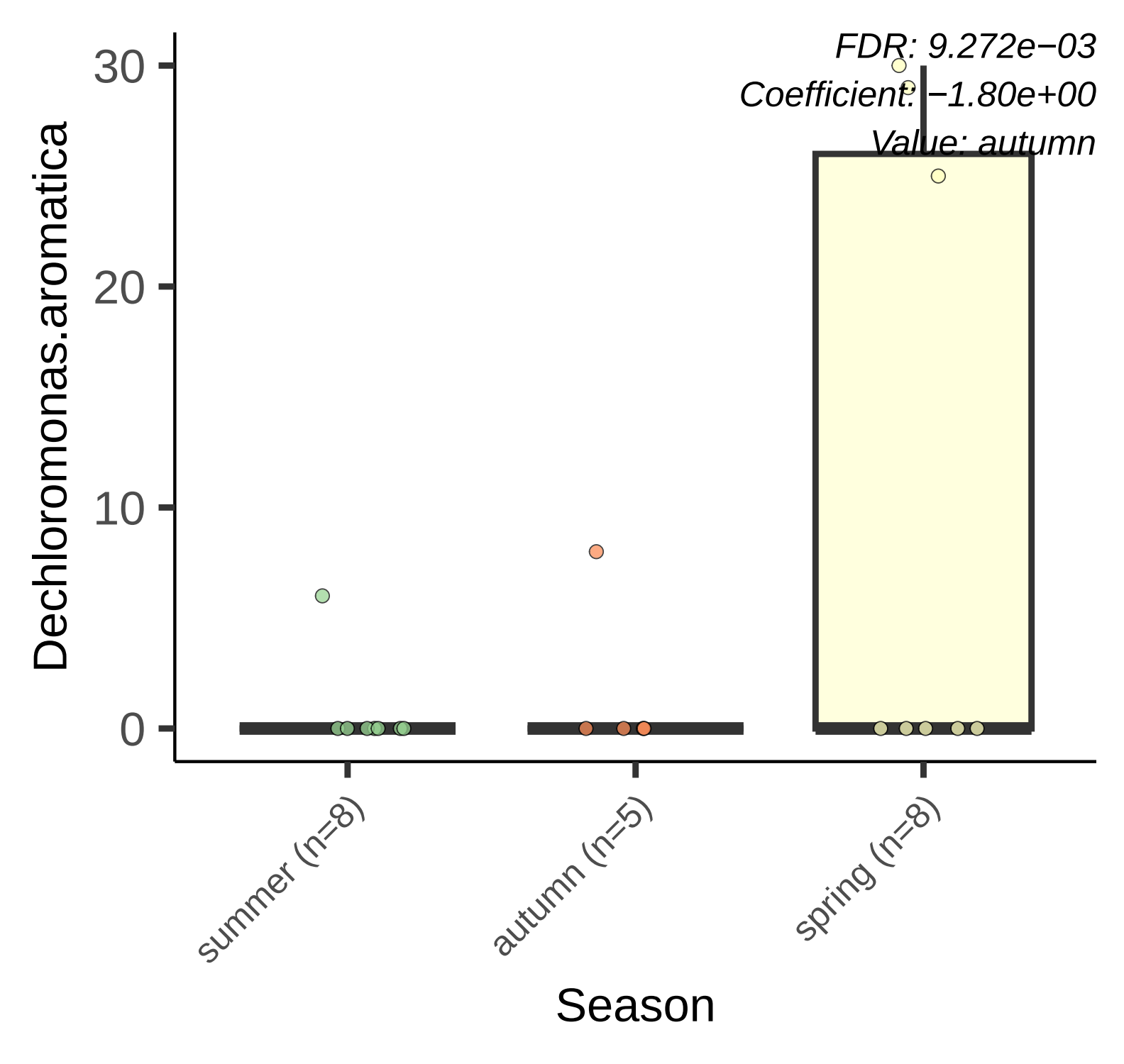

FDR: 8.184e−03
Coefficient: 2.41e+00
Value: autumn
Arachidicoccus.sp..BS20
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

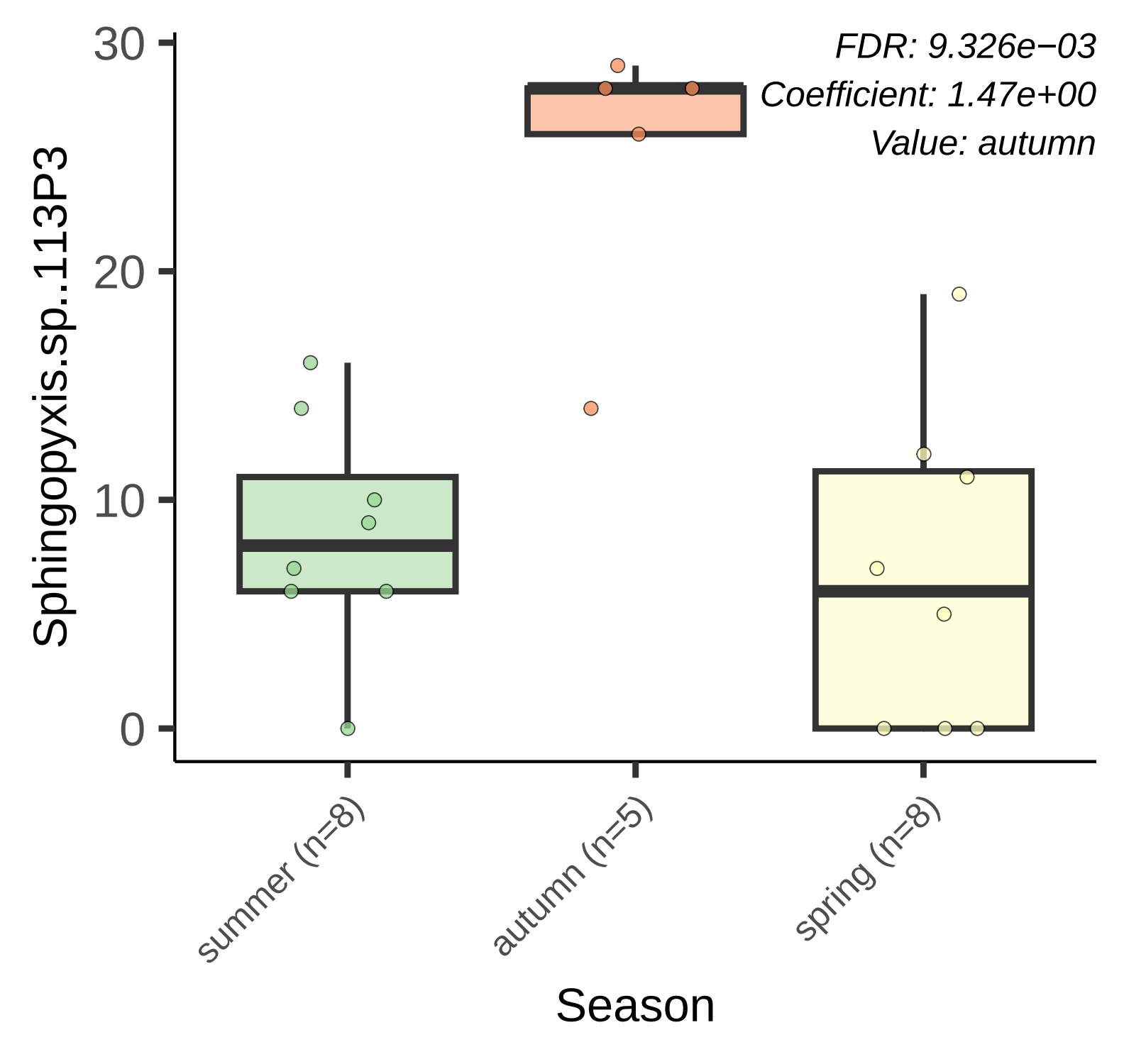

FDR: 8.707e−03
Coefficient: −2.52e+00
Value: autumn
Thalassiosira.oceanica
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

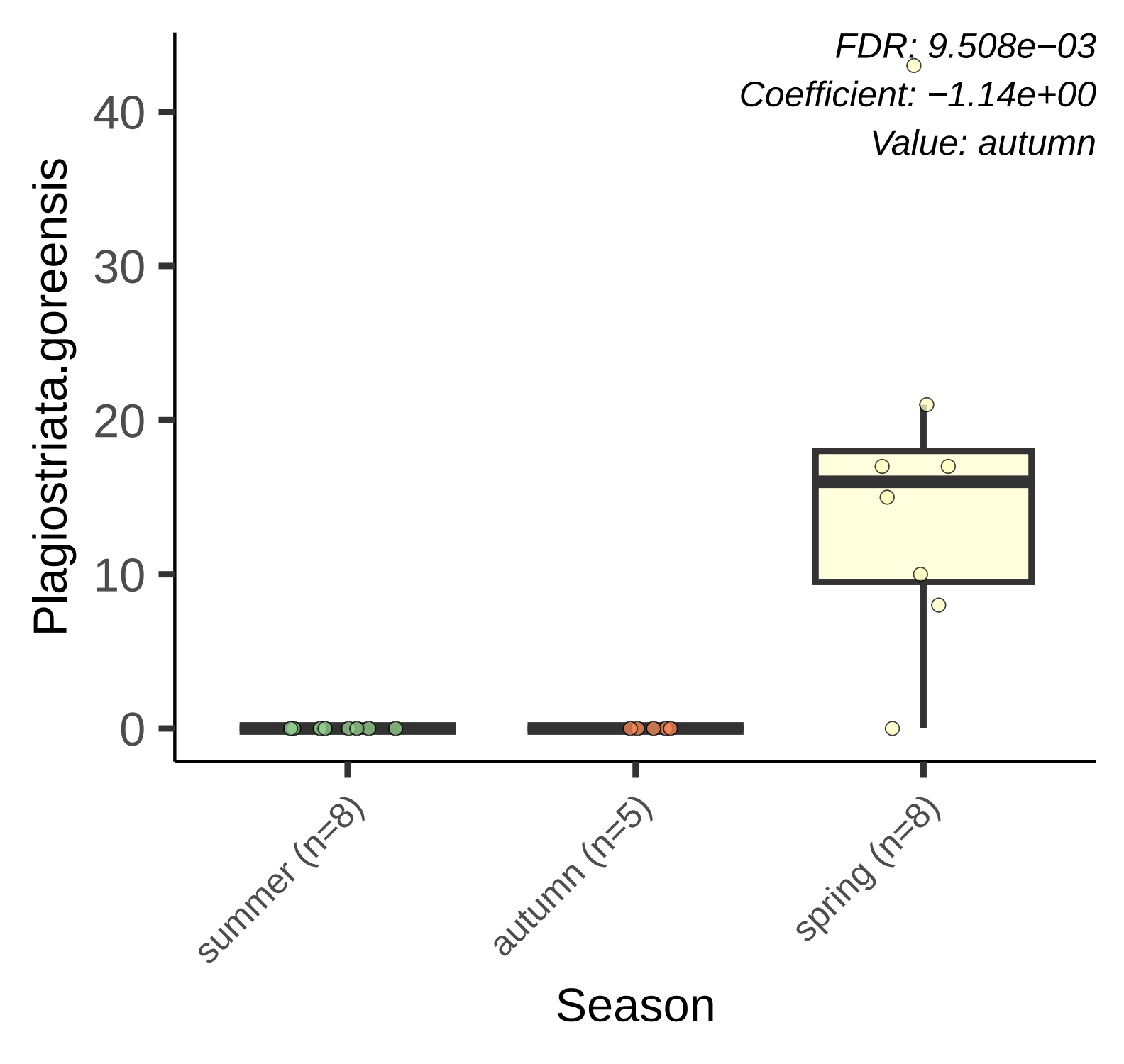

FDR: 8.994e−03
Coefficient: −2.09e+00
Value: autumn
Cryptomonas.paramecium
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

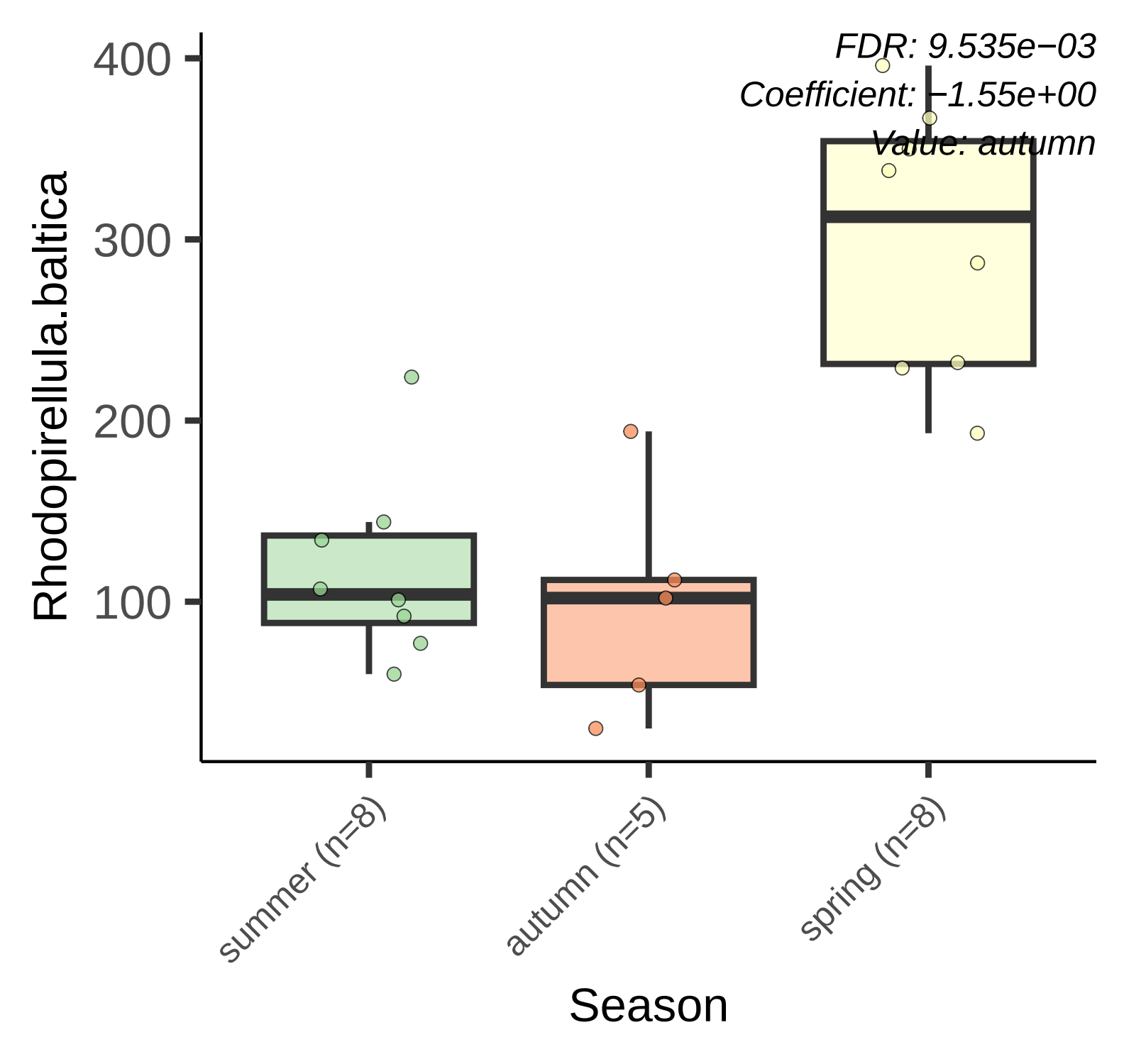

FDR: 9.052e−03
Coefficient: −1.26e+00
Value: autumn
Chlorella.variabilis
0
3
6
9
summer (n=8)
autumn (n=5)
spring (n=8)
Season

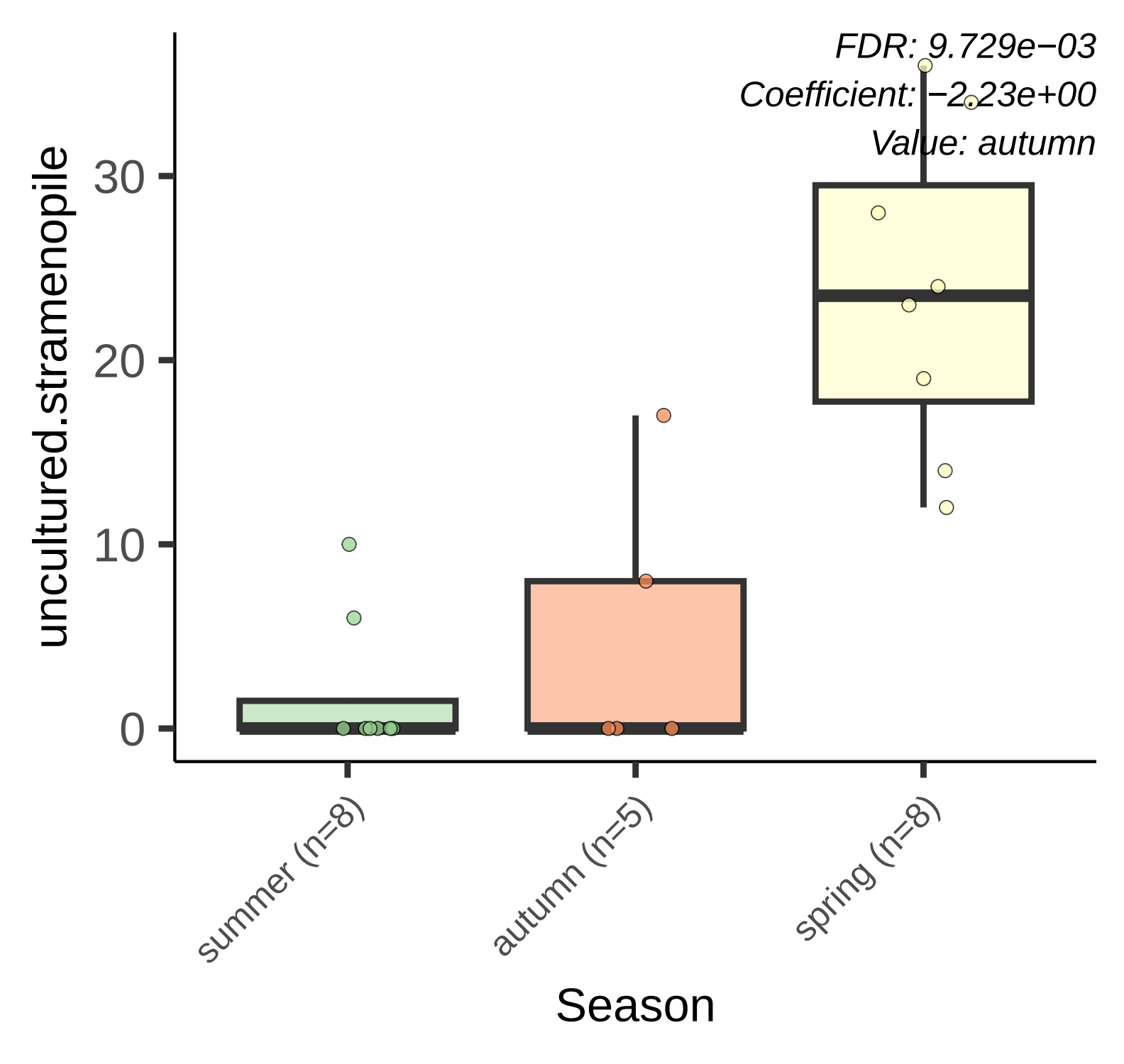

FDR: 9.272e−03
Coefficient: 9.61e−01
Value: autumn
Microvirga.ossetica
100
80
60
40
20
summer (n=8)
autumn (n=5)
spring (n=8)
Season

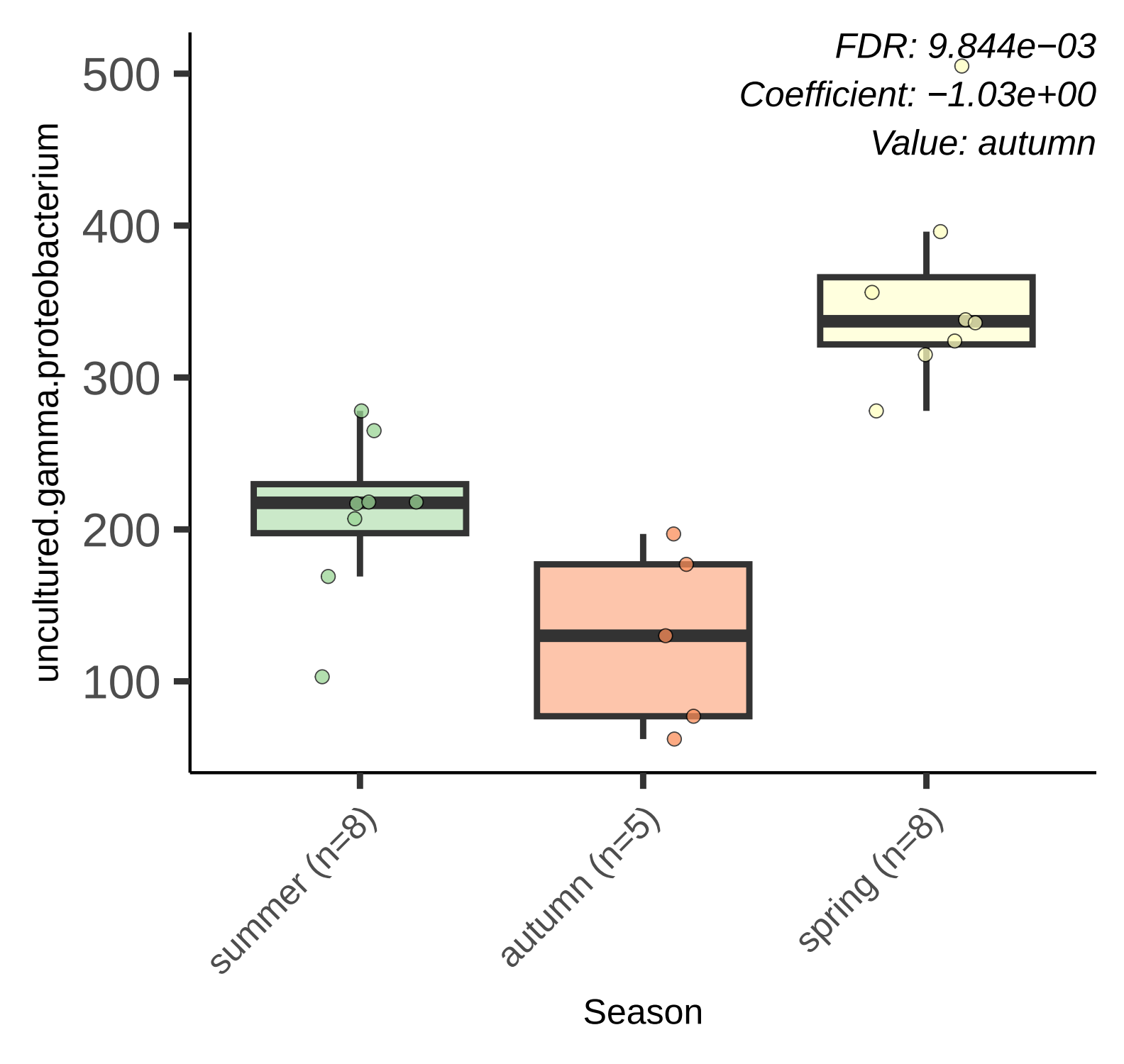

FDR: 9.272e−03
Coefficient: −1.80e+00
Value: autumn
Dechloromonas.aromatica
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

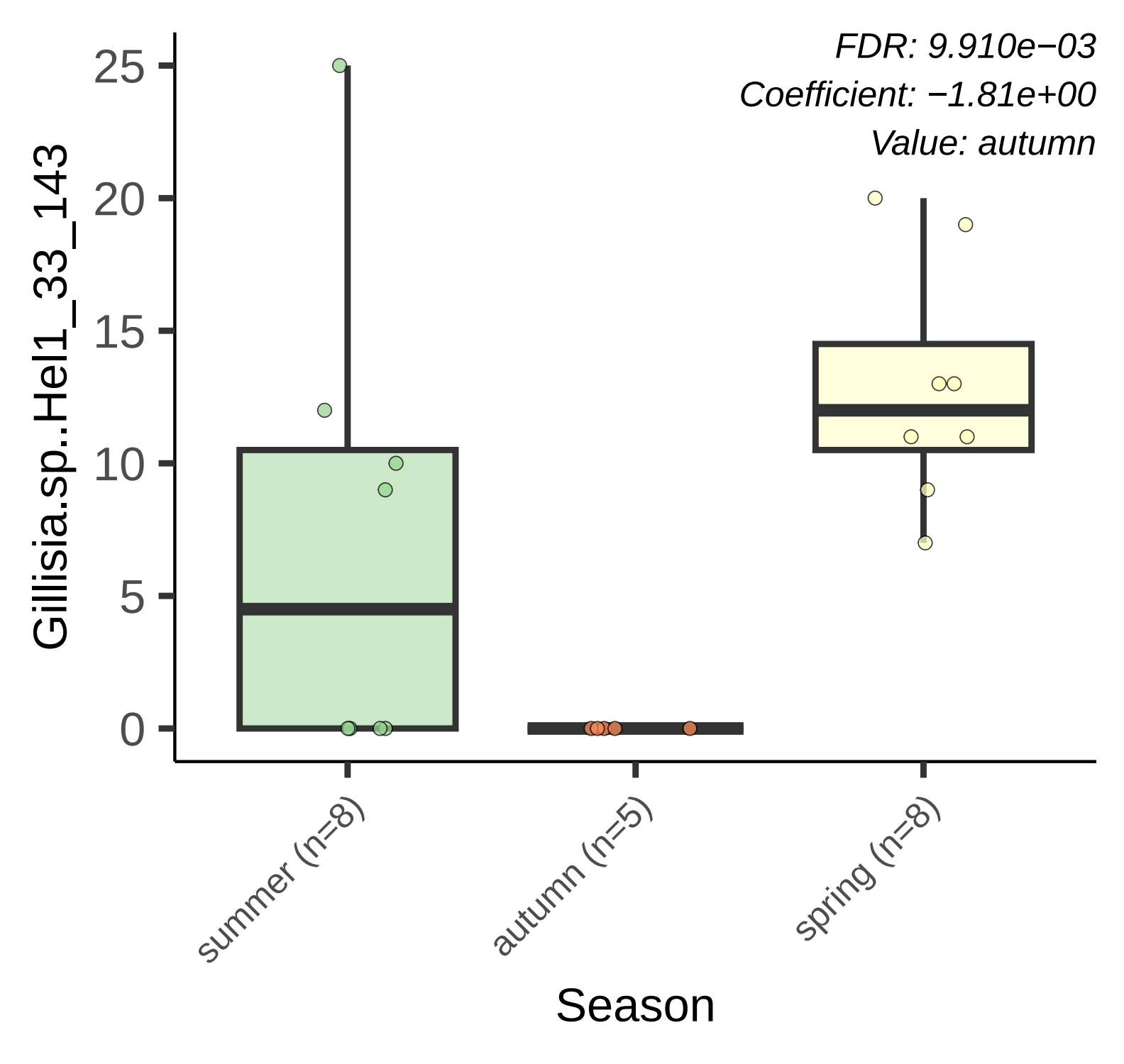

FDR: 9.326e−03
Coefficient: 1.47e+00
Value: autumn
Sphingopyxis.sp..113P3
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

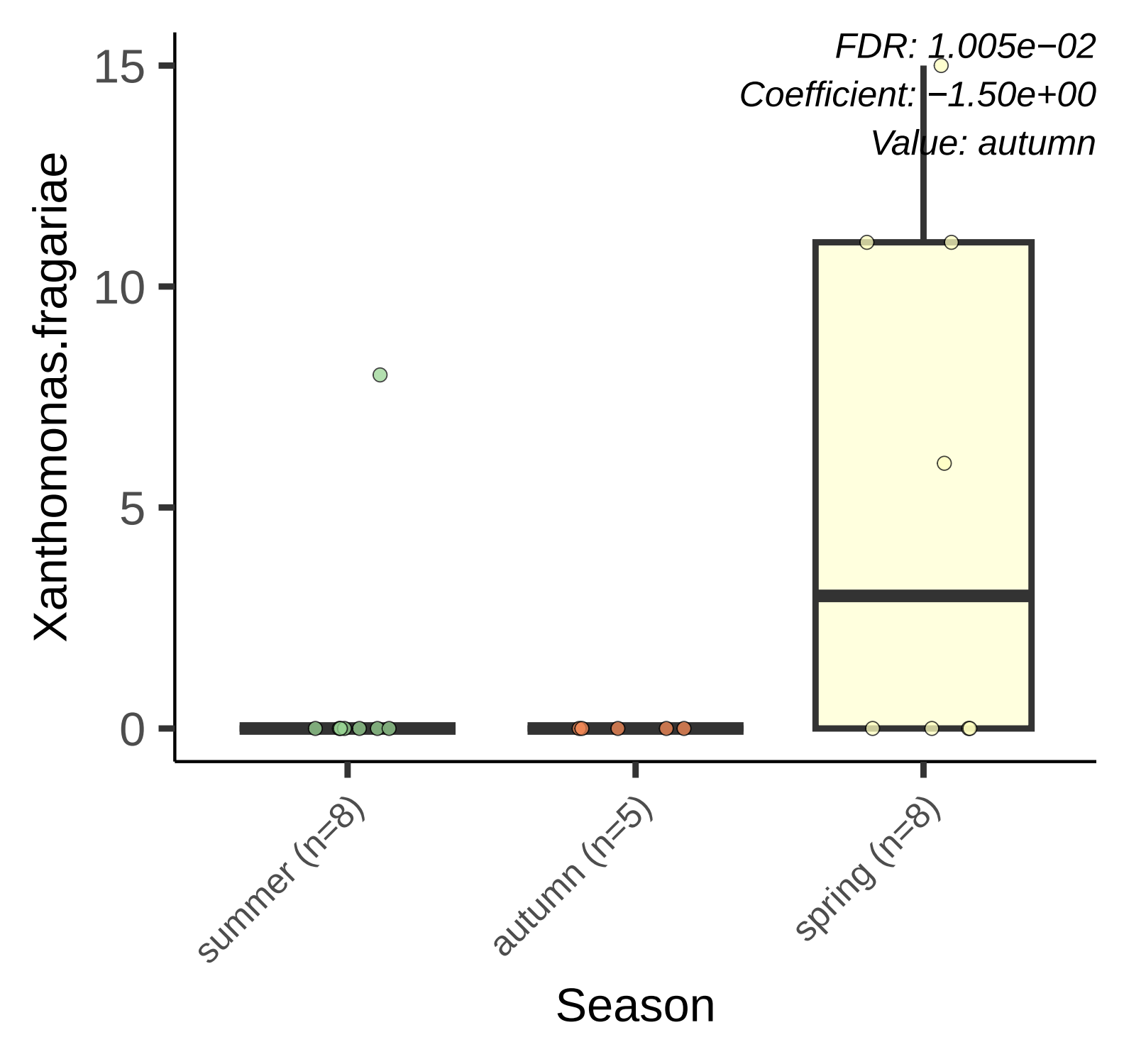

FDR: 9.508e−03
Coefficient: −1.14e+00
Value: autumn
Plagiostriata.goreensis
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

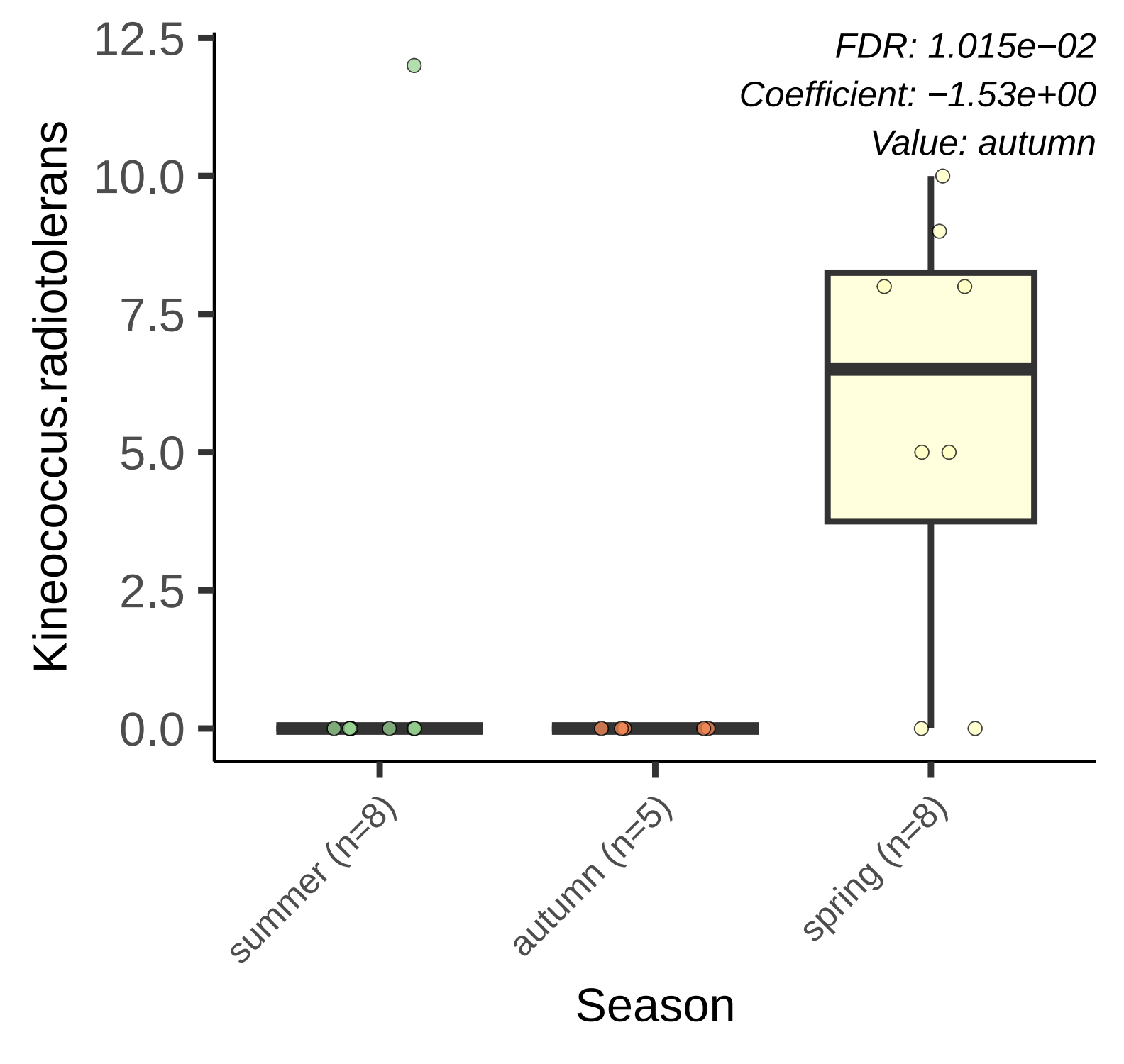

FDR: 9.535e−03
Coefficient: −1.55e+00
Value: autumn
Rhodopirellula.baltica
400
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

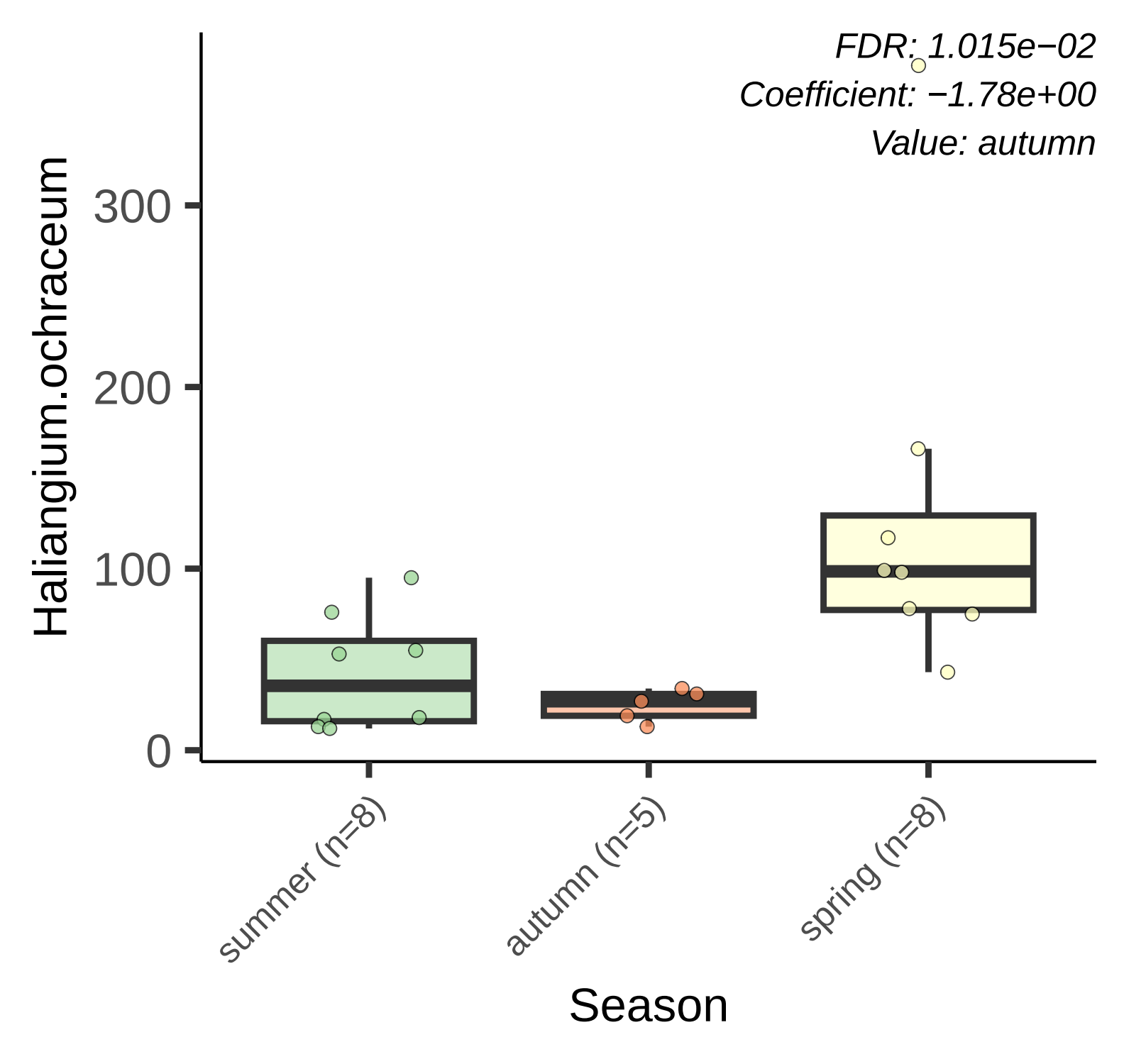

FDR: 9.729e−03
Coefficient: −2.23e+00
Value: autumn
uncultured.stramenopile
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

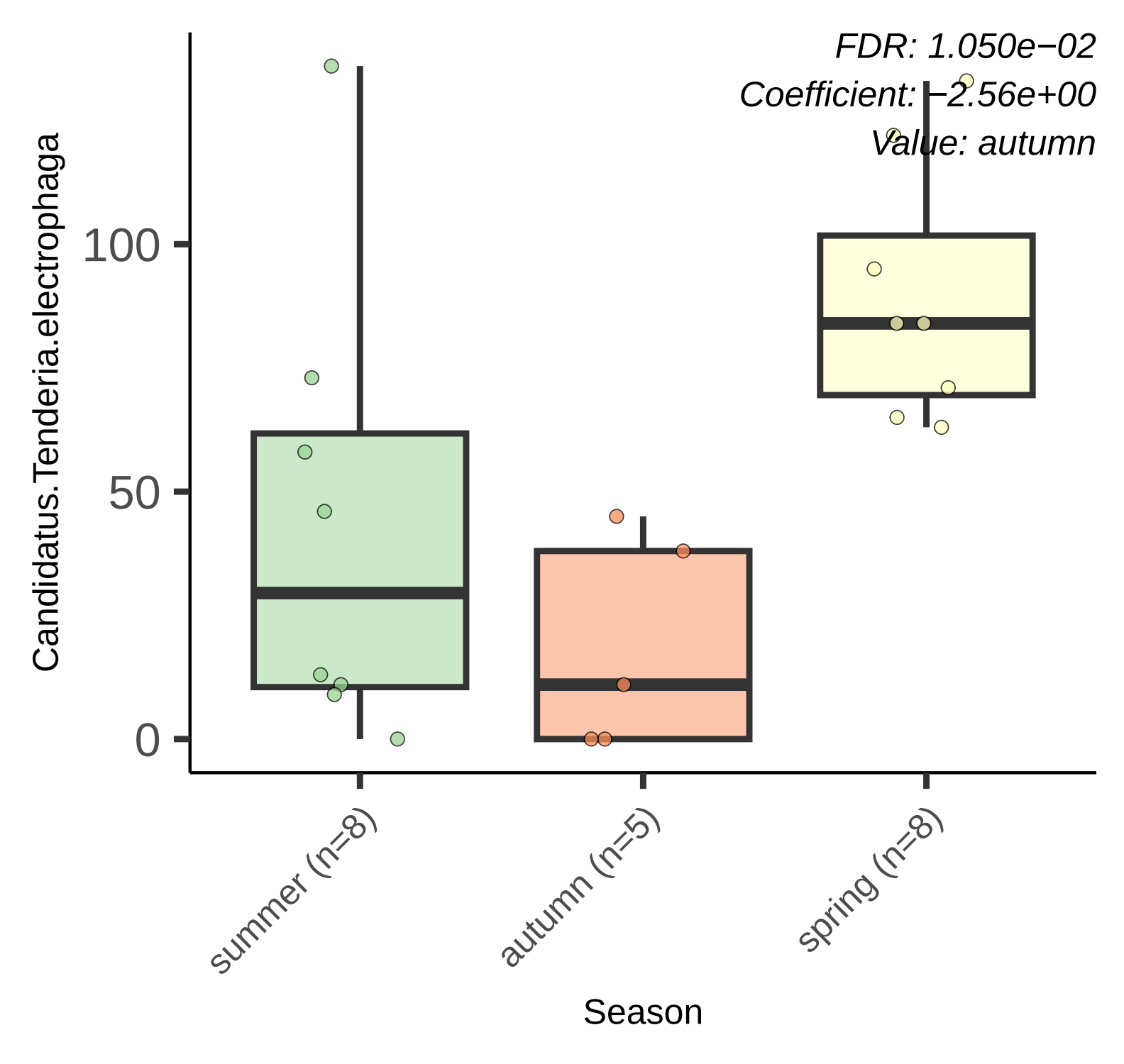

FDR: 9.844e−03
Coefficient: −1.03e+00
Value: autumn
uncultured.gamma.proteobacterium
500
400
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

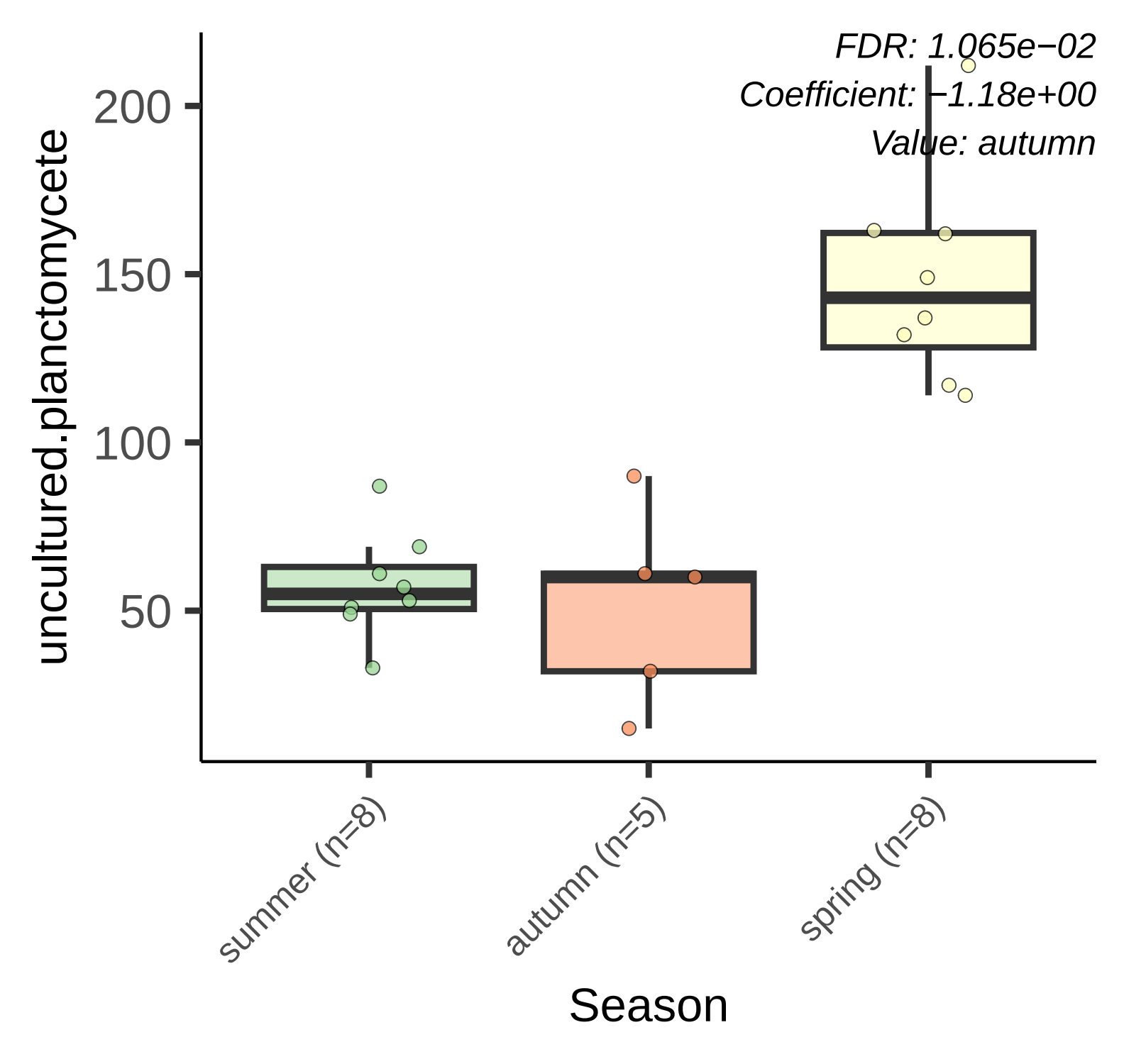

FDR: 9.910e−03
Coefficient: −1.81e+00
Value: autumn
Gillisia.sp..Hel1_33_143
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

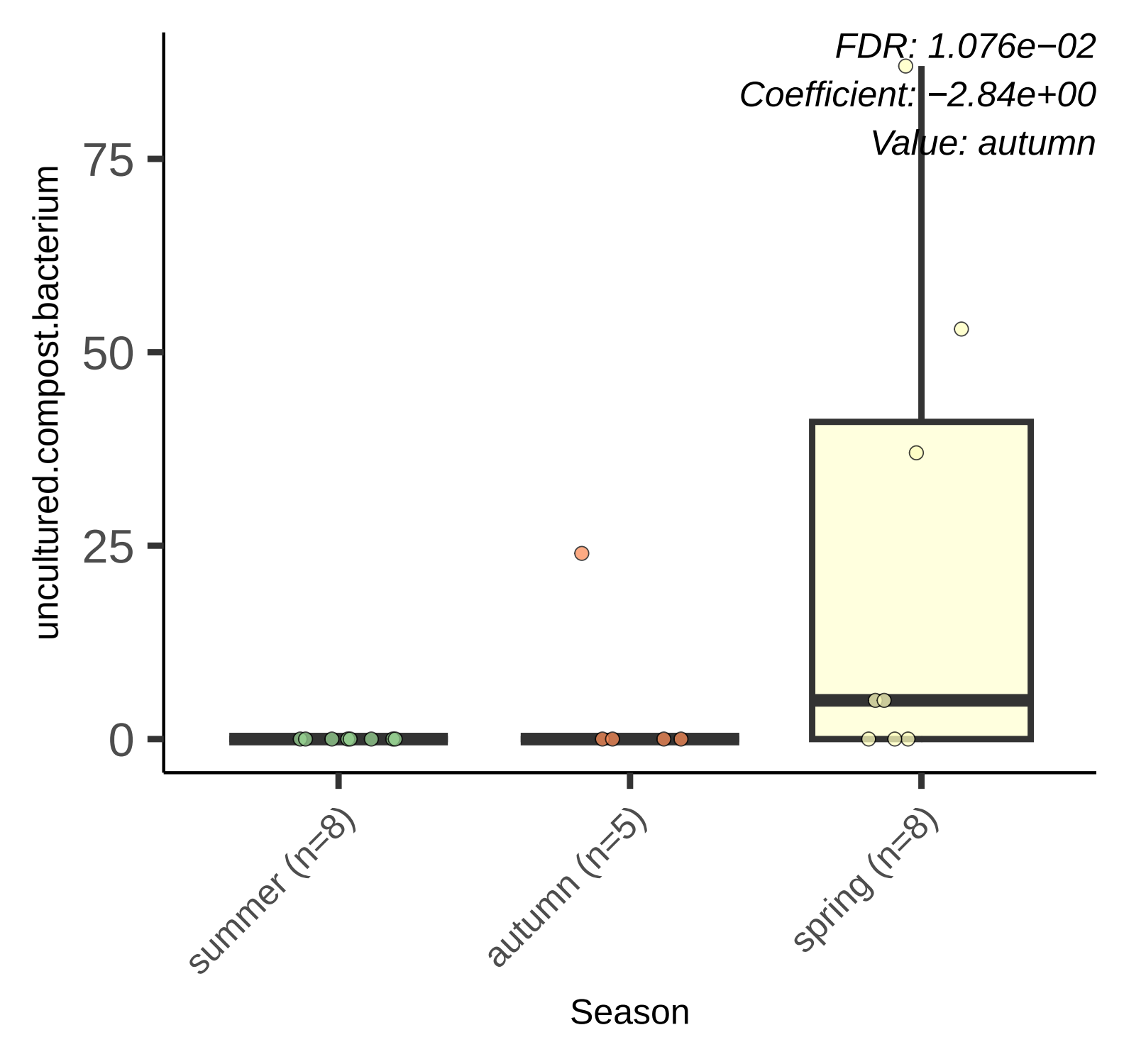

FDR: 1.005e−02
Coefficient: −1.50e+00
Value: autumn
Xanthomonas.fragariae
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

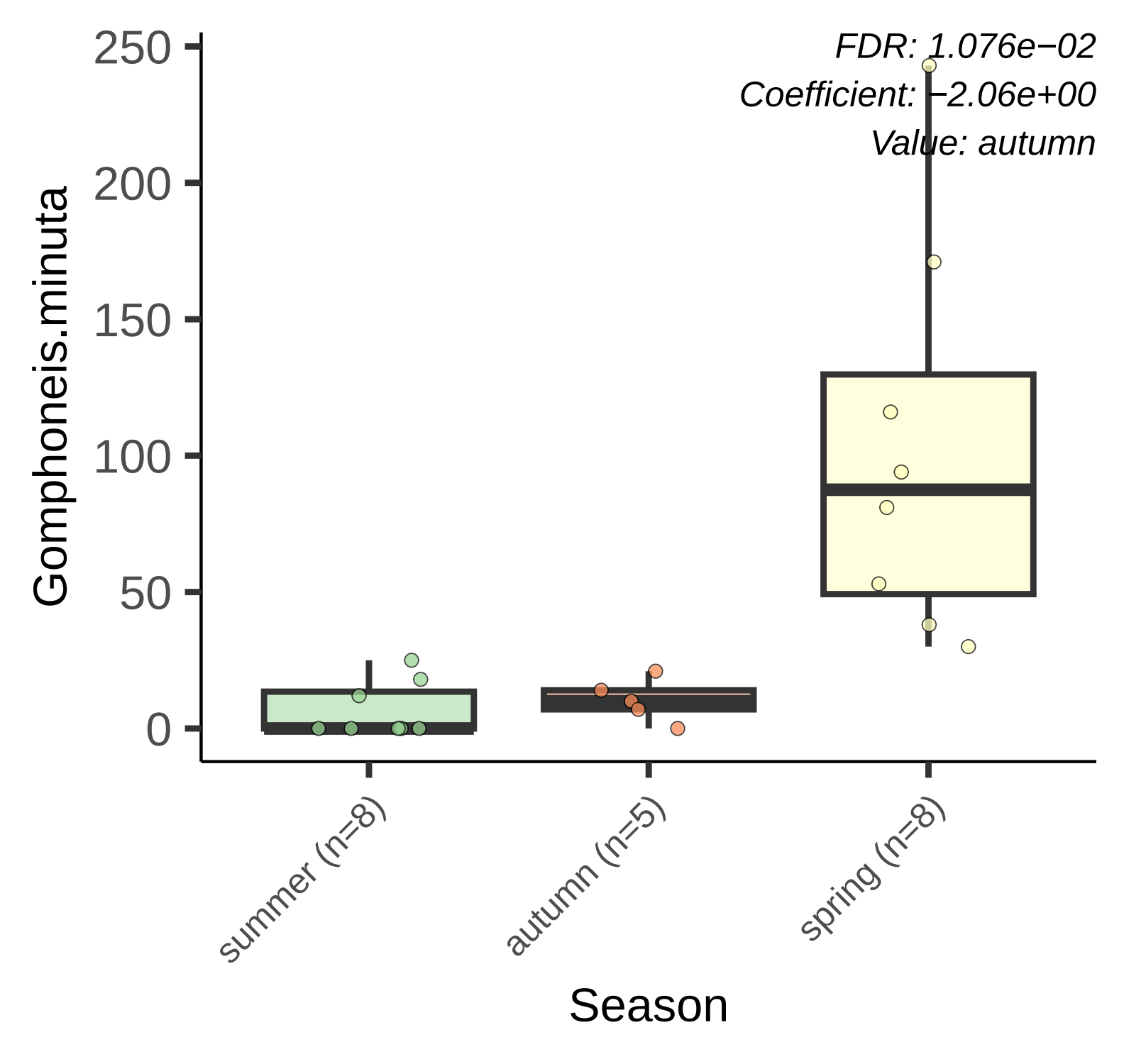

FDR: 1.015e−02
Coefficient: −1.53e+00
Value: autumn
Kineococcus.radiotolerans
12.5
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

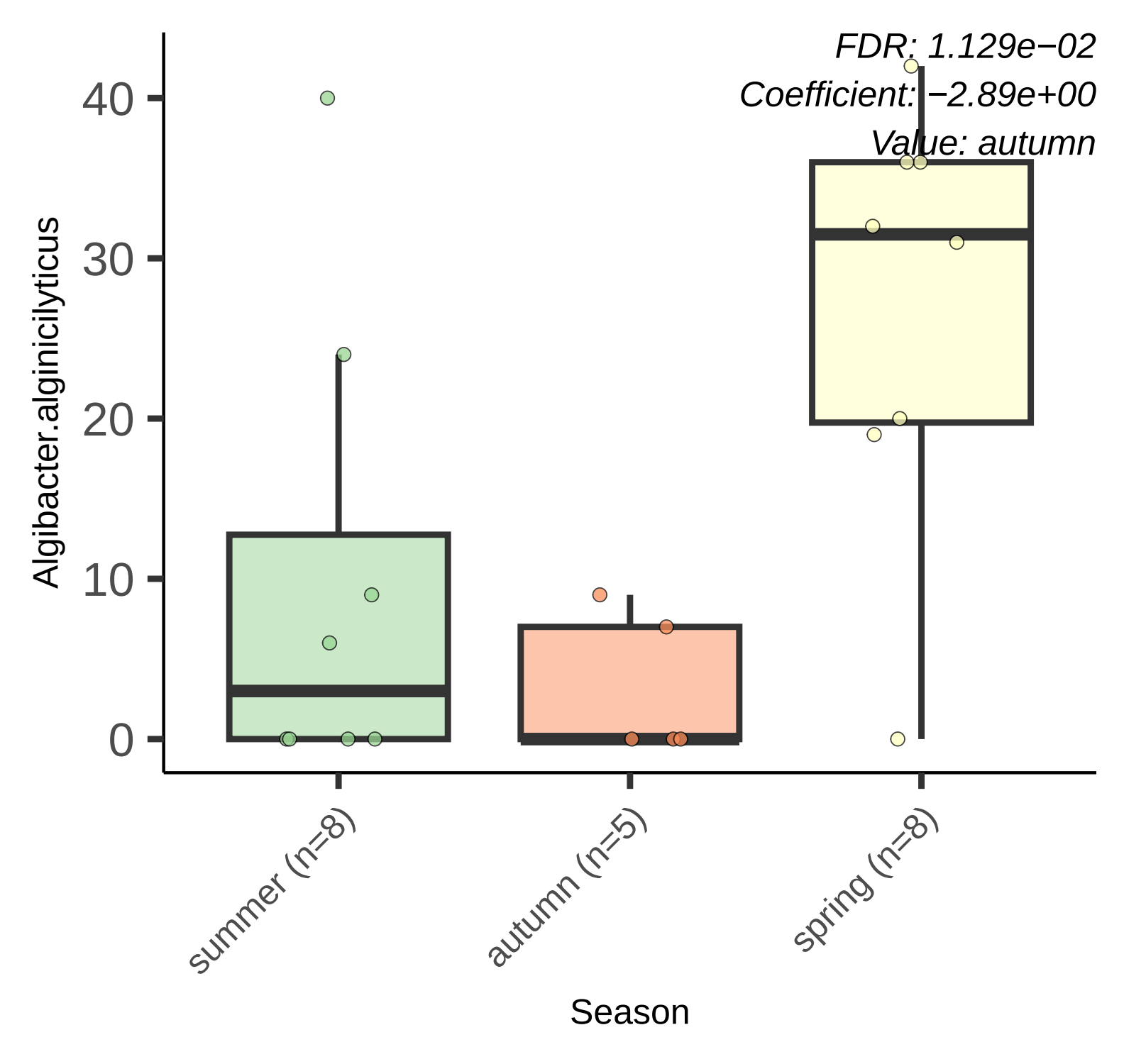

FDR: 1.015e−02
Coefficient: −1.78e+00
Value: autumn
Haliangium.ochraceum
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

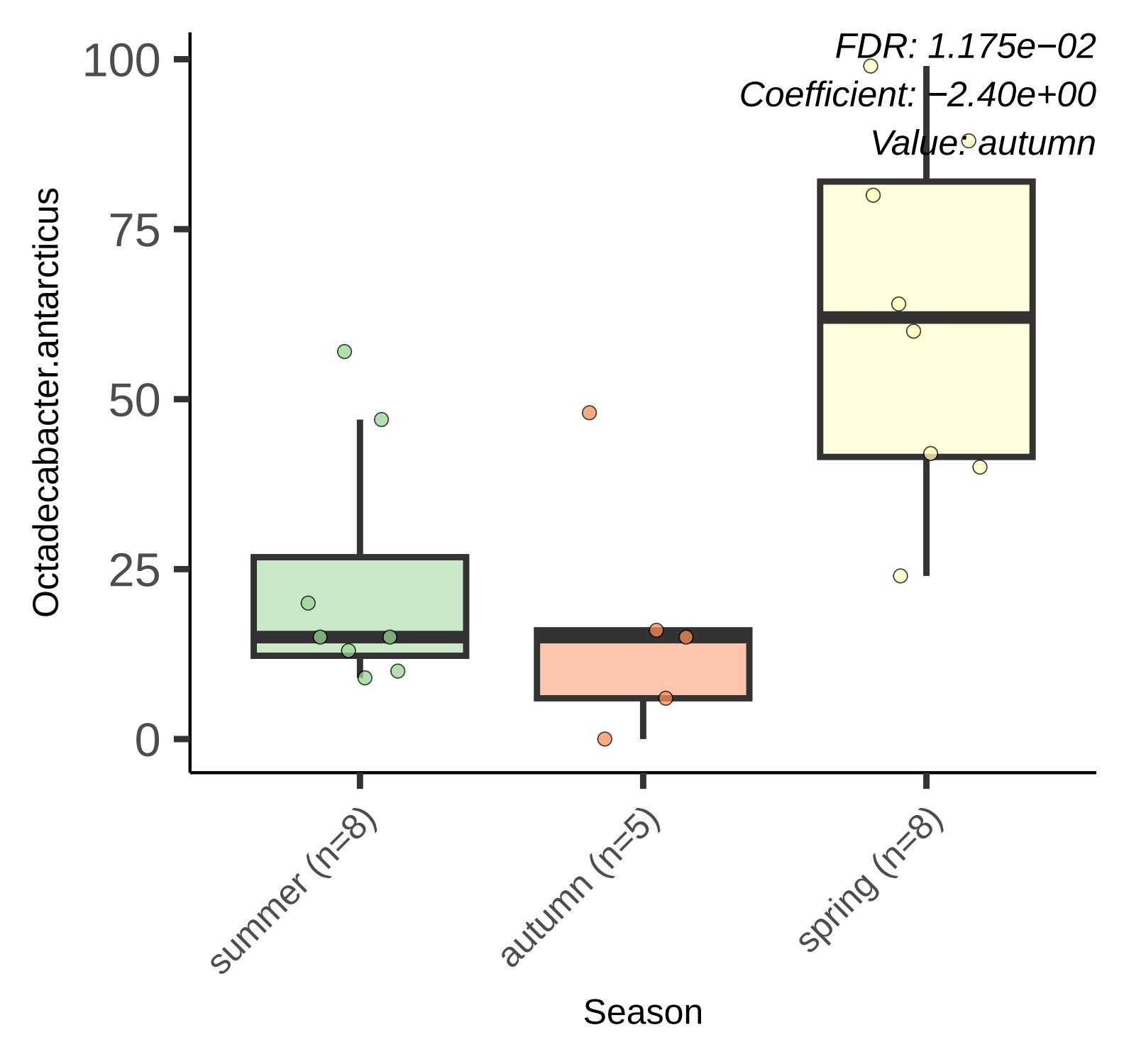

FDR: 1.050e−02
Coefficient: −2.56e+00
Value: autumn
Candidatus.Tenderia.electrophaga
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

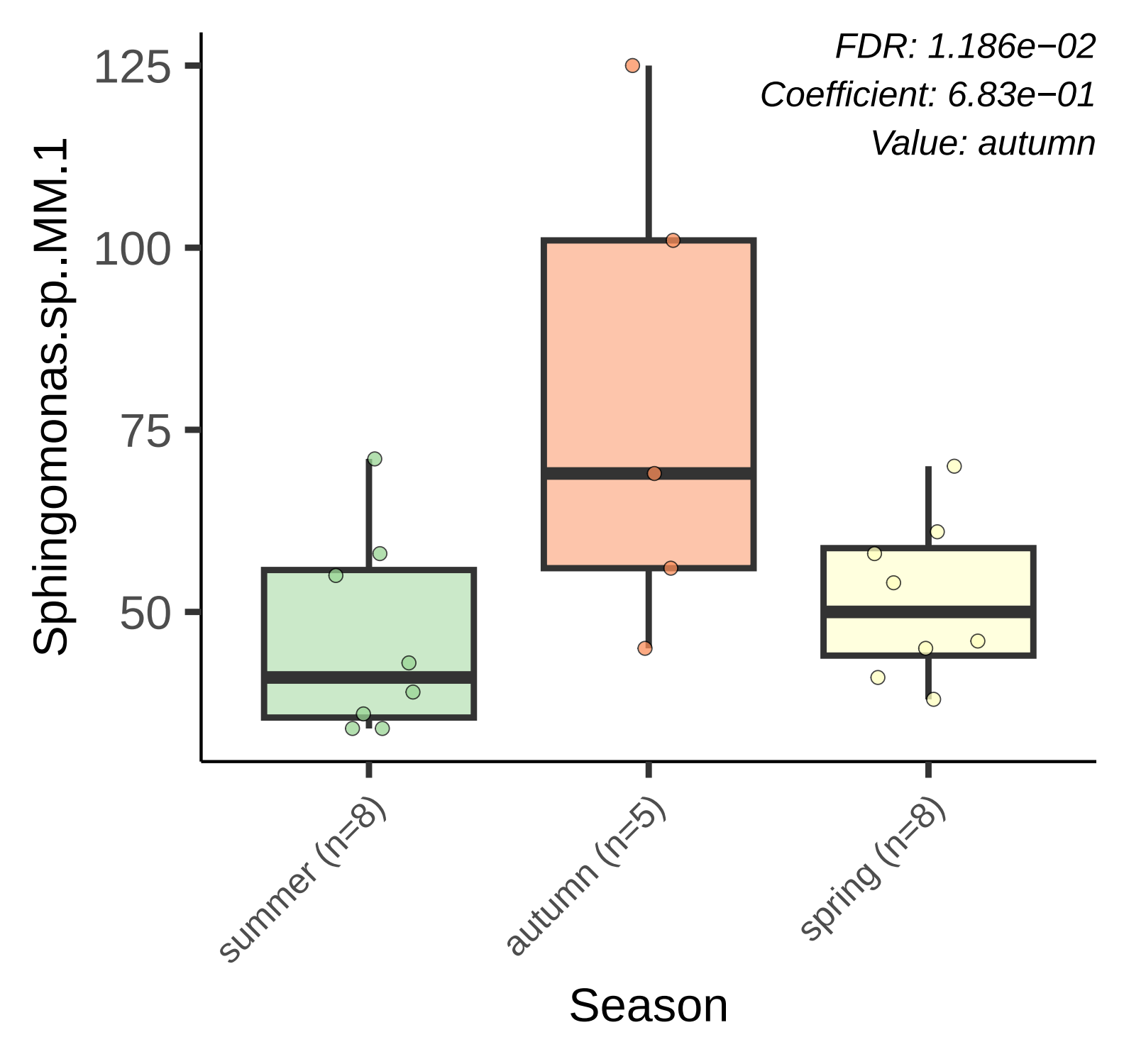

FDR: 1.065e−02
Coefficient: −1.18e+00
Value: autumn
uncultured.planctomycete
200
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

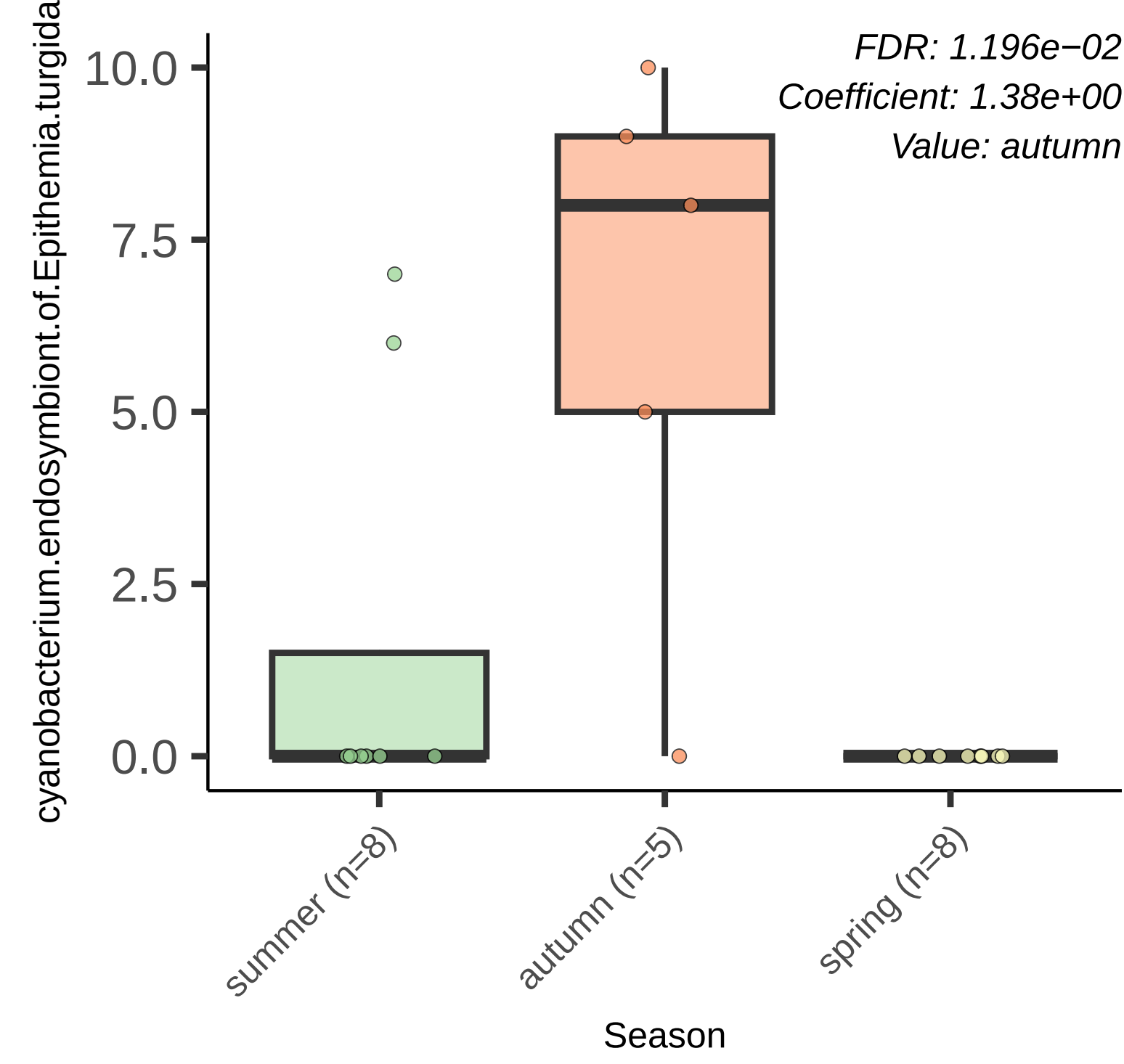

FDR: 1.076e−02
Coefficient: −2.84e+00
Value: autumn
uncultured.compost.bacterium
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

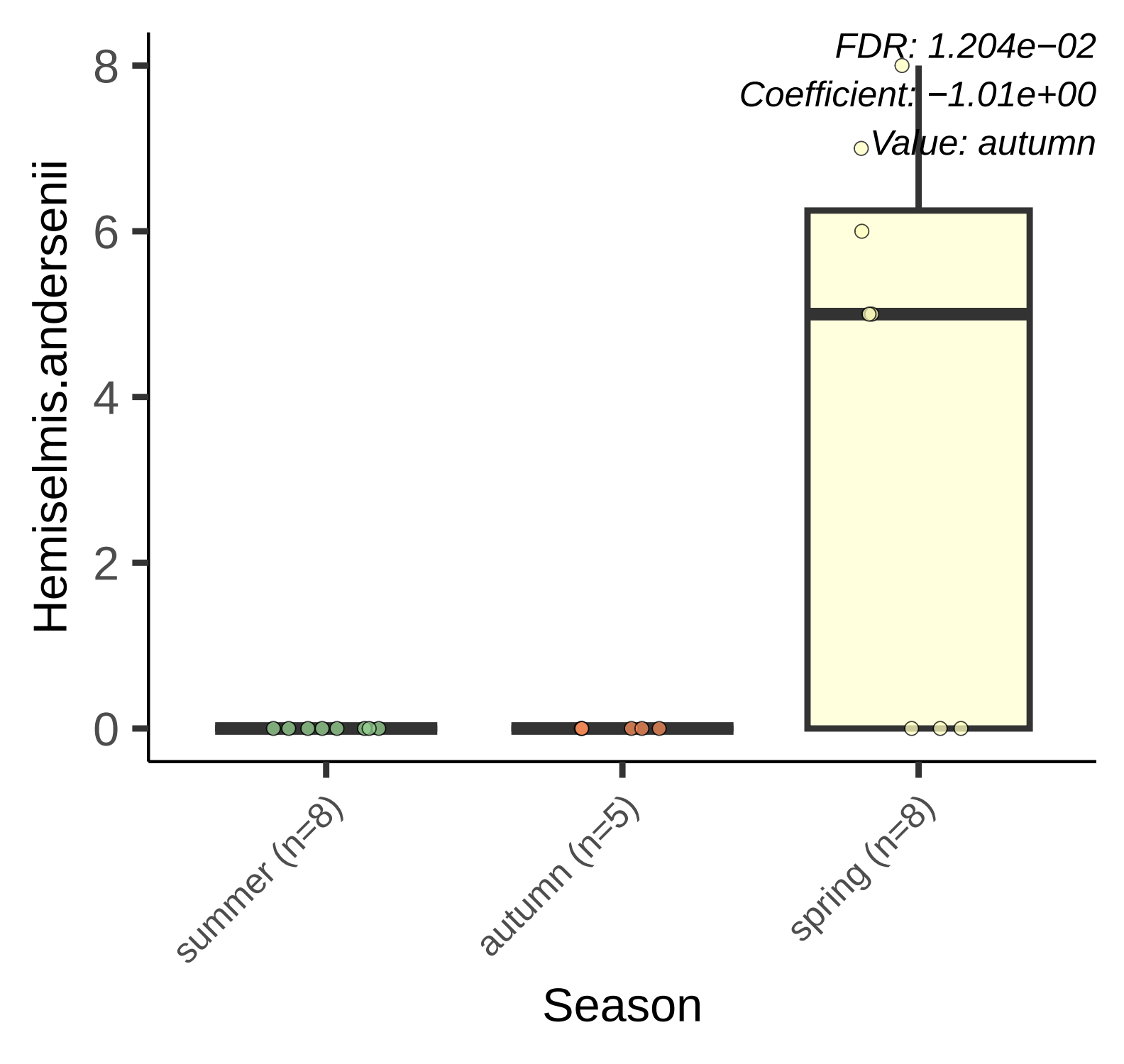

FDR: 1.076e−02
Coefficient: −2.06e+00
Value: autumn
Gomphoneis.minuta
250
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

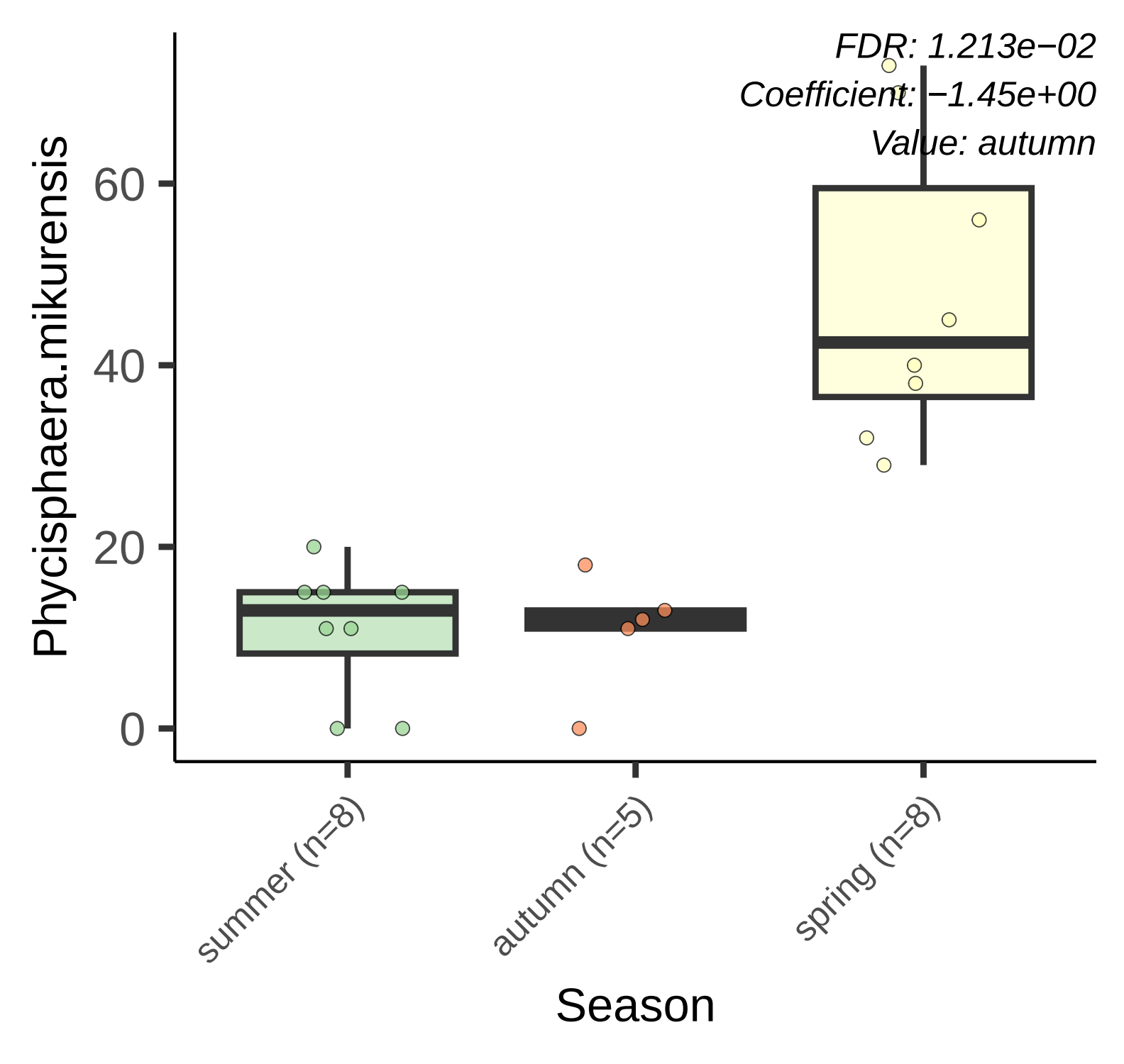

FDR: 1.129e−02
Coefficient: −2.89e+00
Value: autumn
Algibacter.alginicilyticus
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

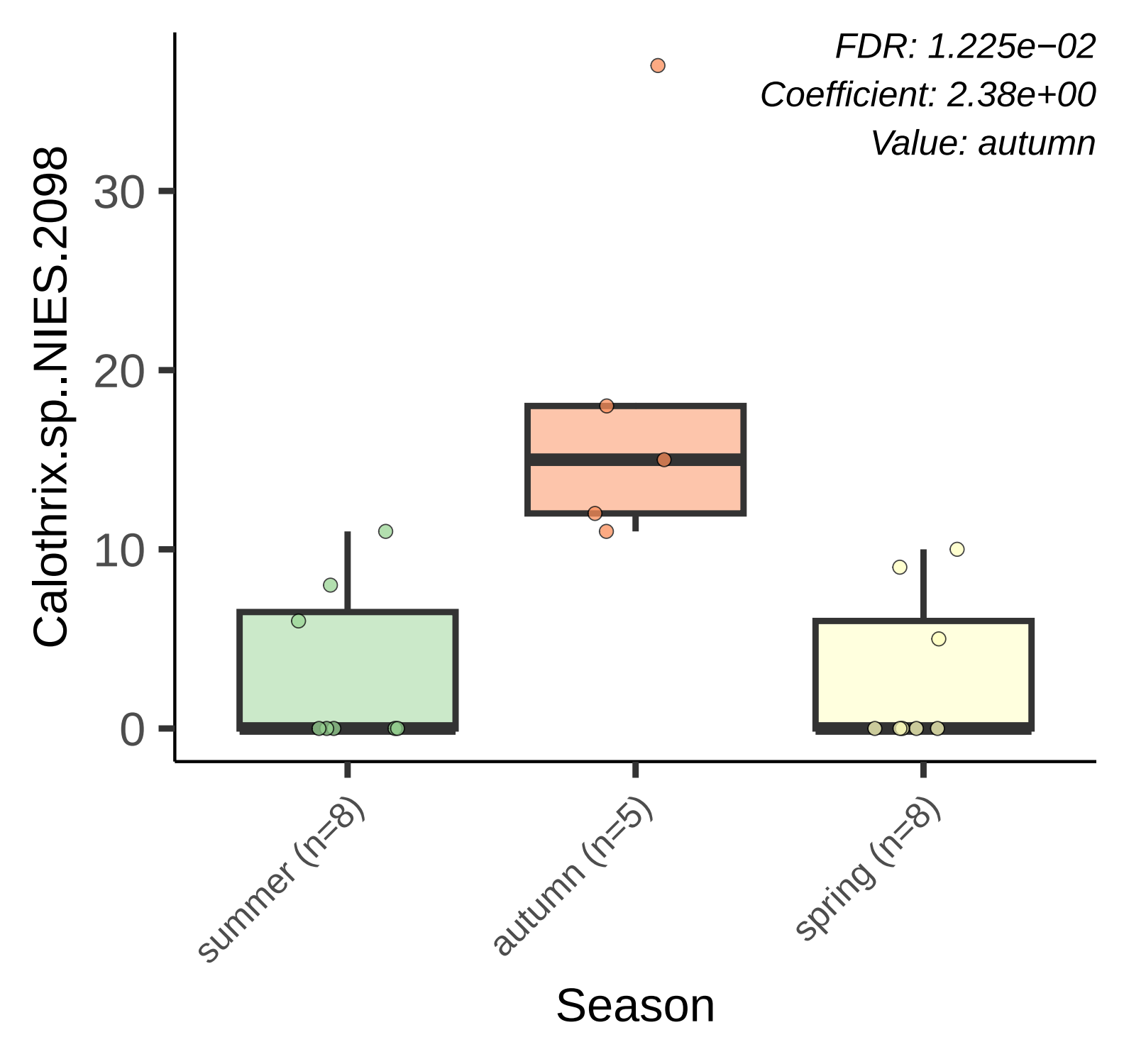

FDR: 1.175e−02
Coefficient: −2.40e+00
Value: autumn
Octadecabacter.antarcticus
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

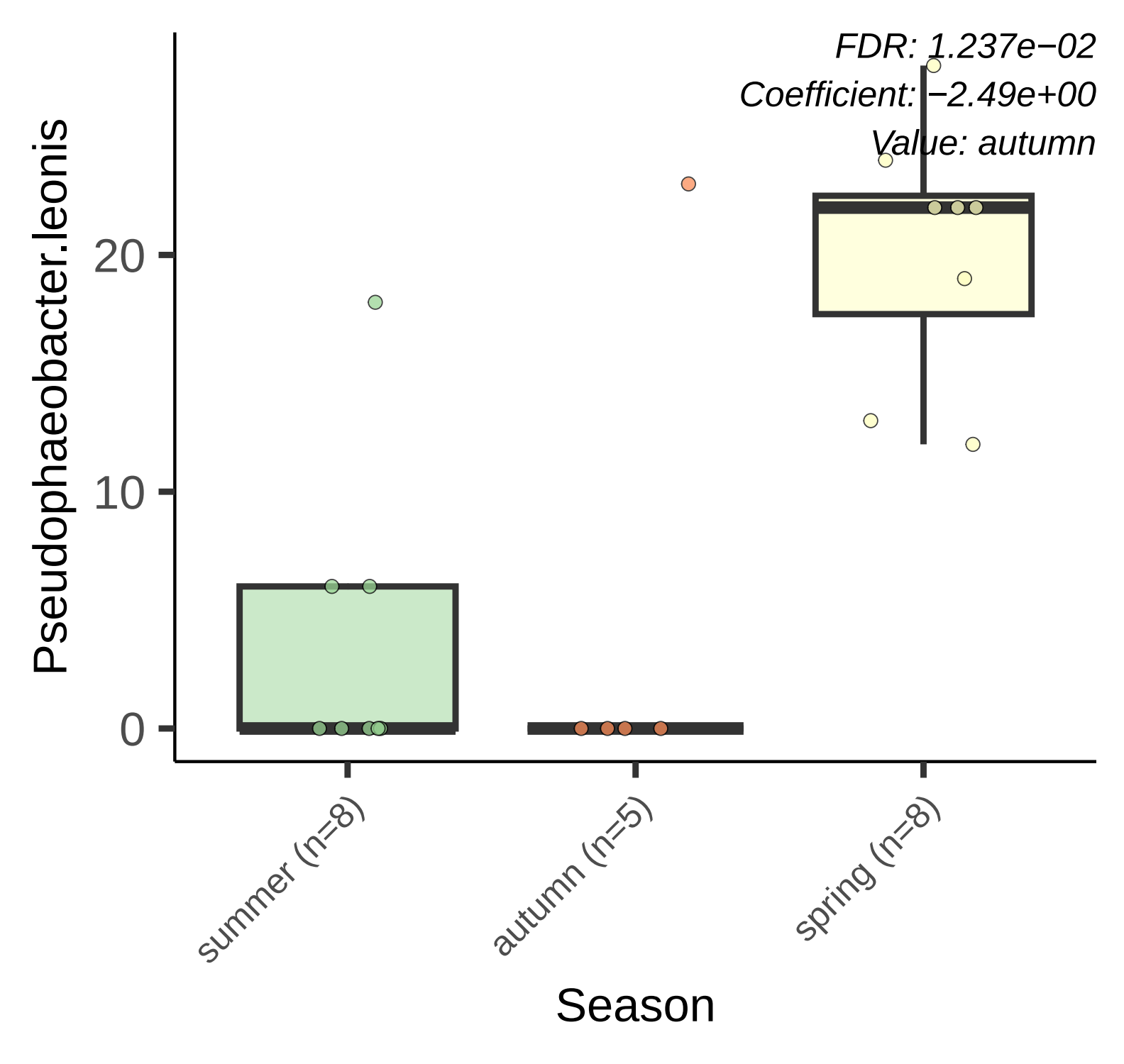

FDR: 1.186e−02
Coefficient: 6.83e−01
Value: autumn
Sphingomonas.sp..MM.1
125
100
75
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

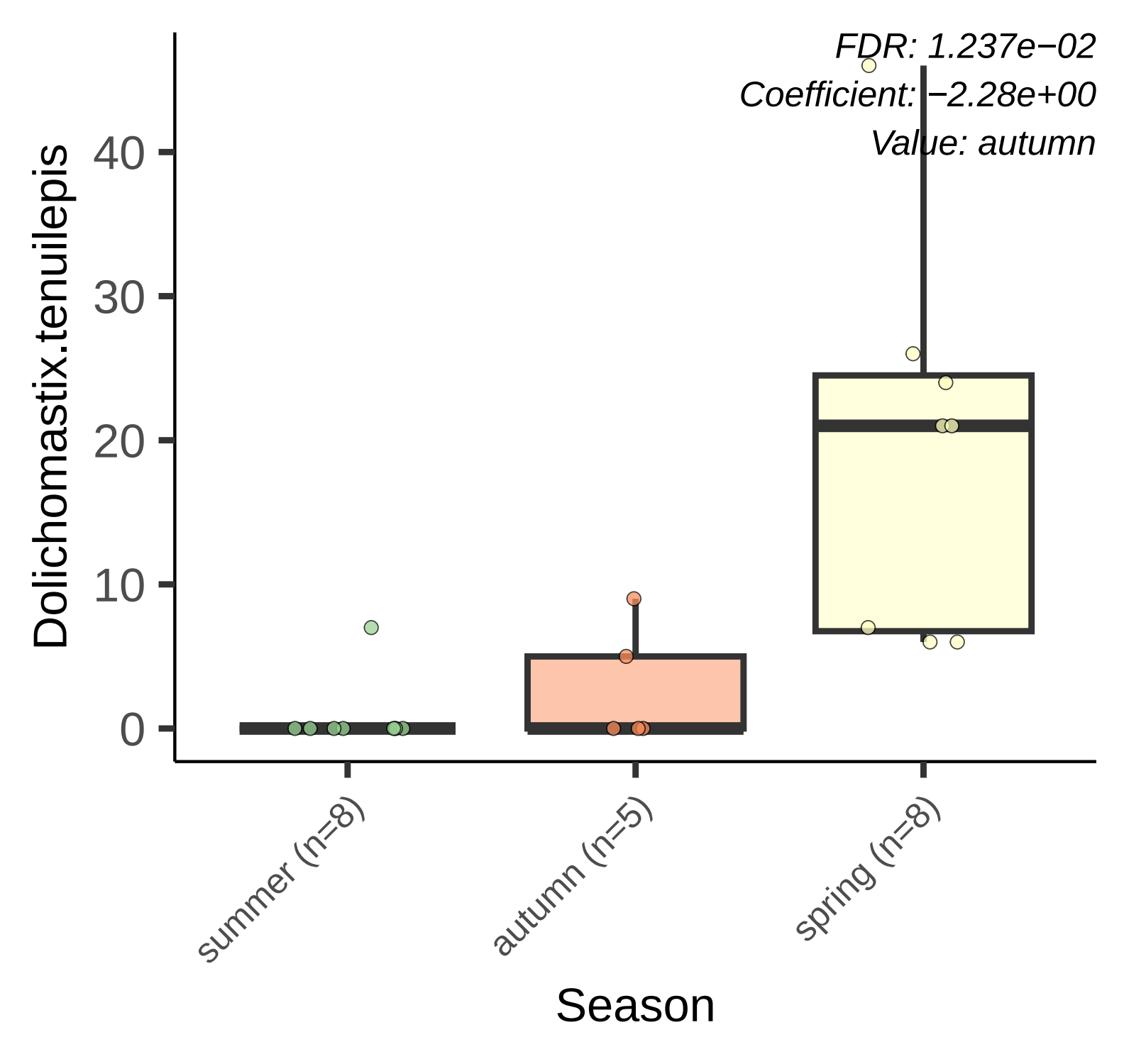

FDR: 1.196e−02
Coefficient: 1.38e+00
Value: autumn
cyanobacterium.endosymbiont.of.Epithemia.turgida
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

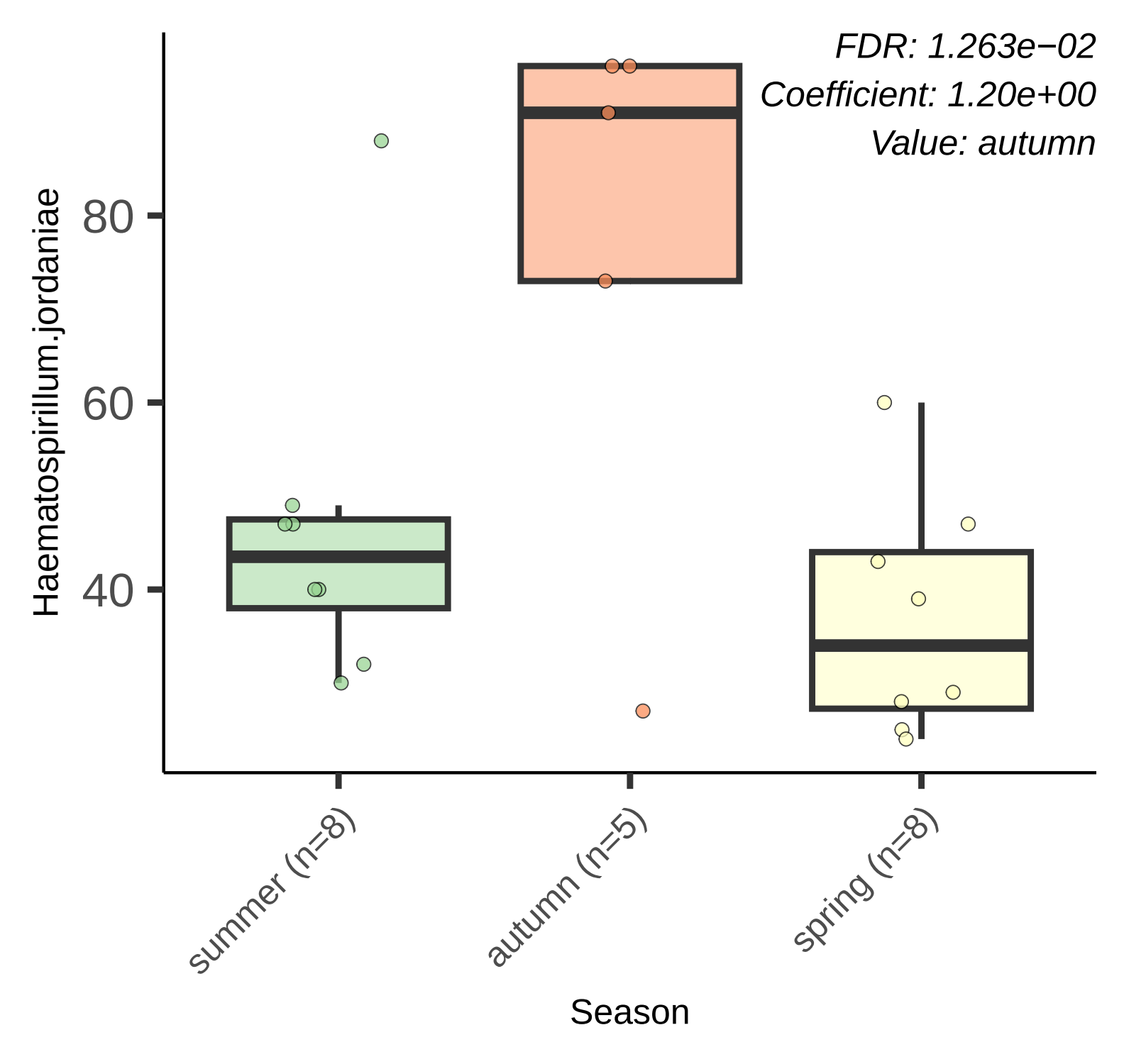

FDR: 1.204e−02
Coefficient: −1.01e+00
Value: autumn
Hemiselmis.andersenii
8
6
4
2
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

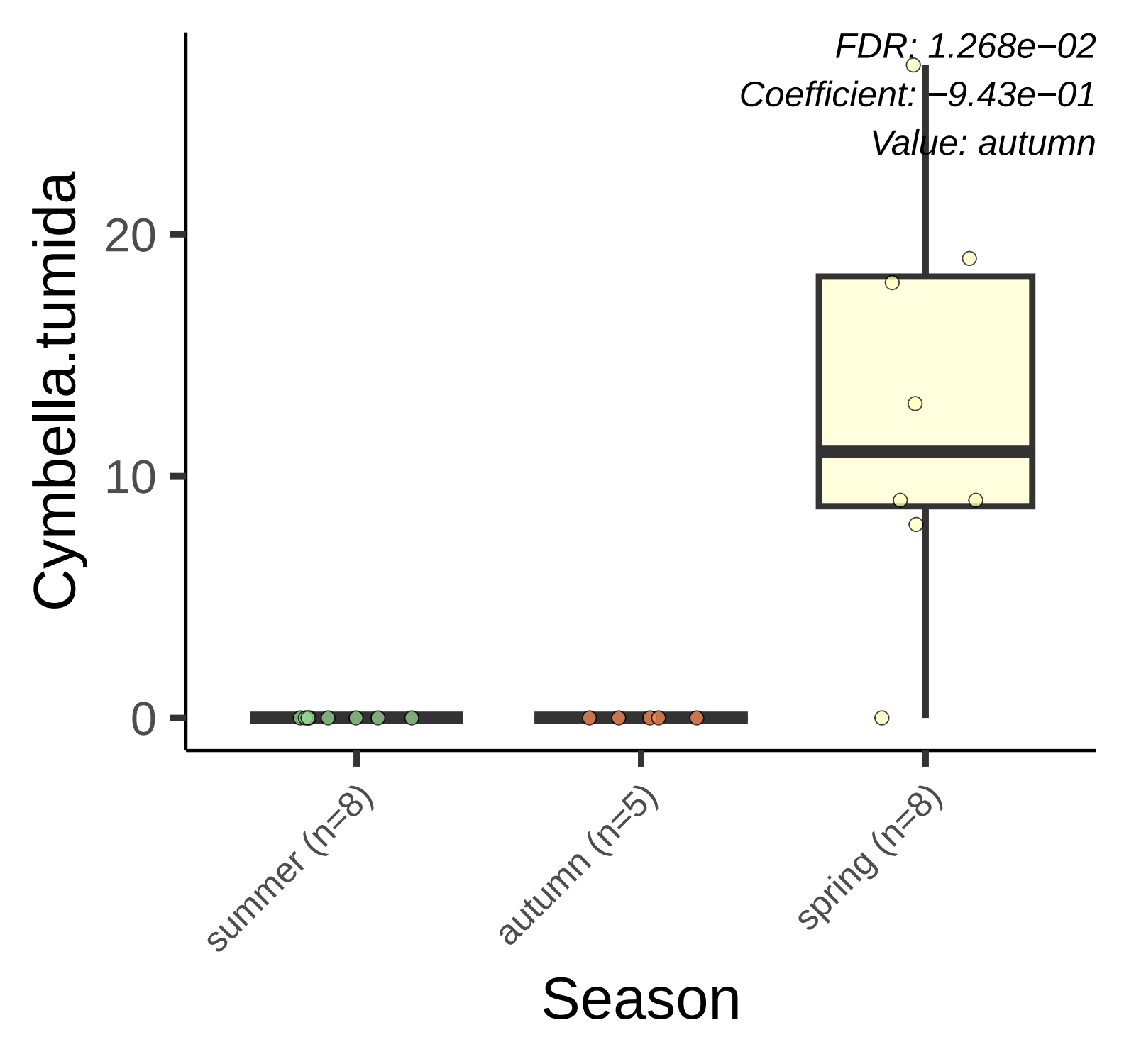

FDR: 1.213e−02
Coefficient: −1.45e+00
Value: autumn
Phycisphaera.mikurensis
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

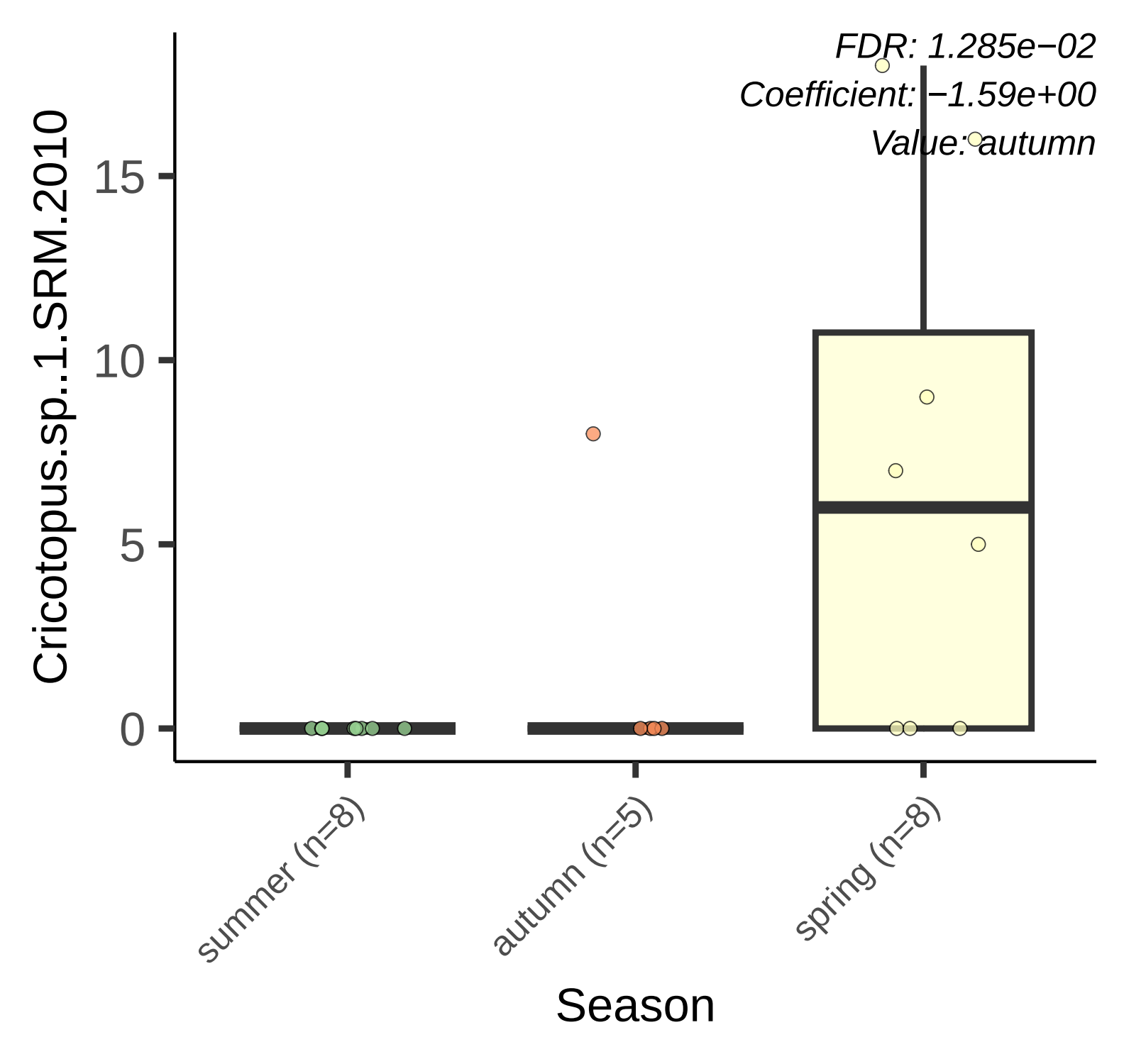

FDR: 1.225e−02
Coefficient: 2.38e+00
Value: autumn
Calothrix.sp..NIES.2098
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

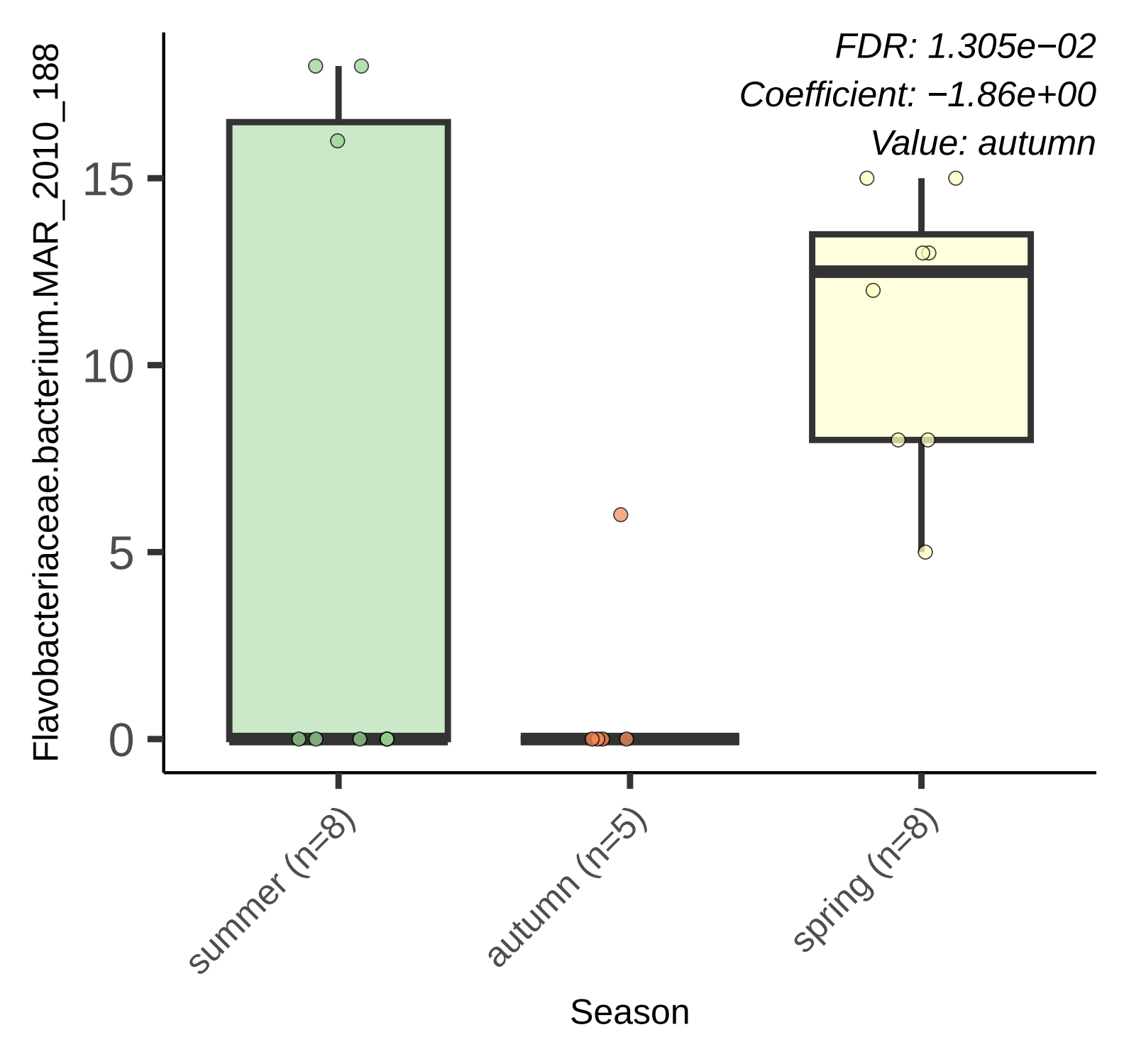

FDR: 1.237e−02
Coefficient: −2.49e+00
Value: autumn
Pseudophaeobacter.leonis
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

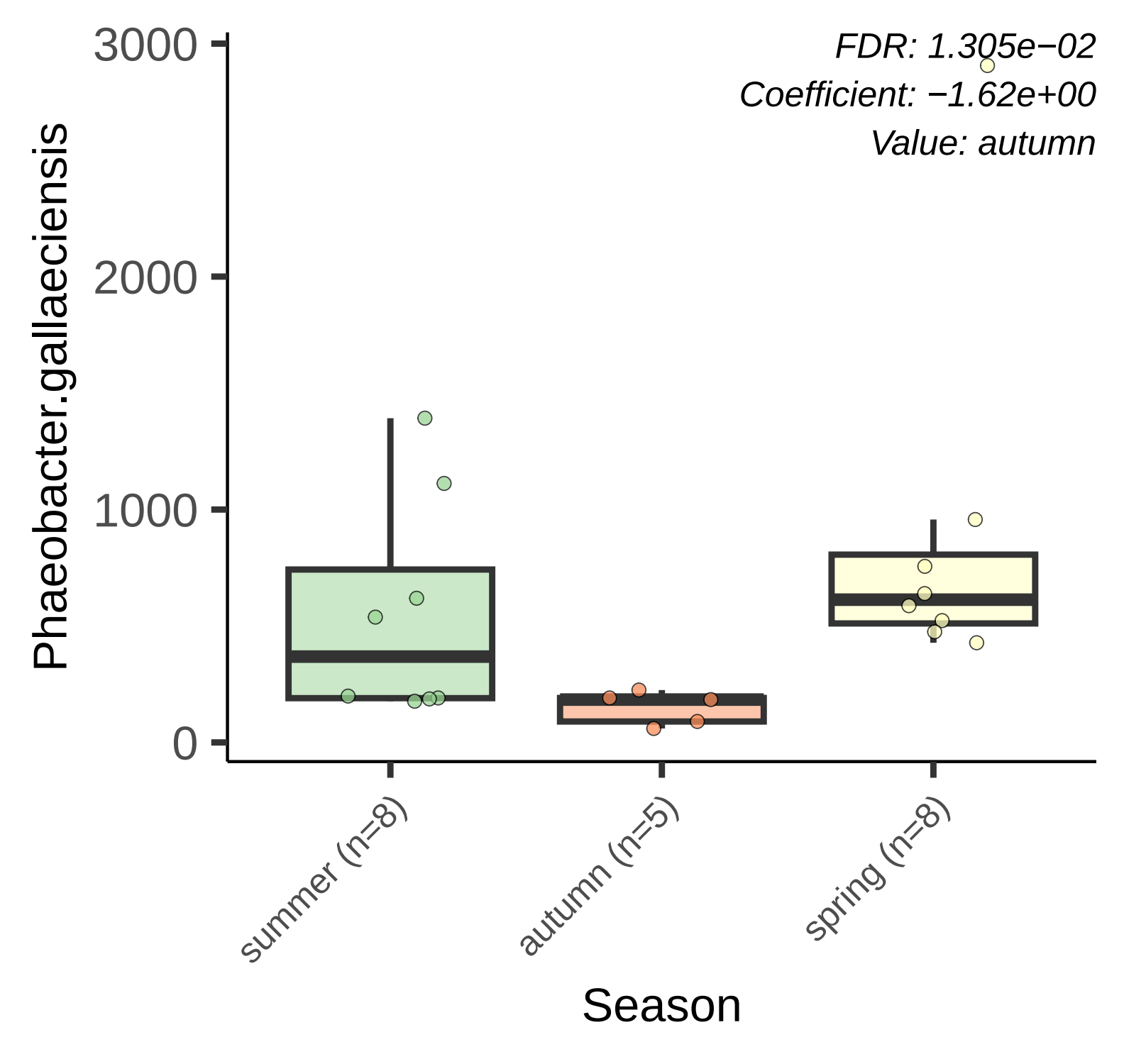

FDR: 1.237e−02
Coefficient: −2.28e+00
Value: autumn
Dolichomastix.tenuilepis
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

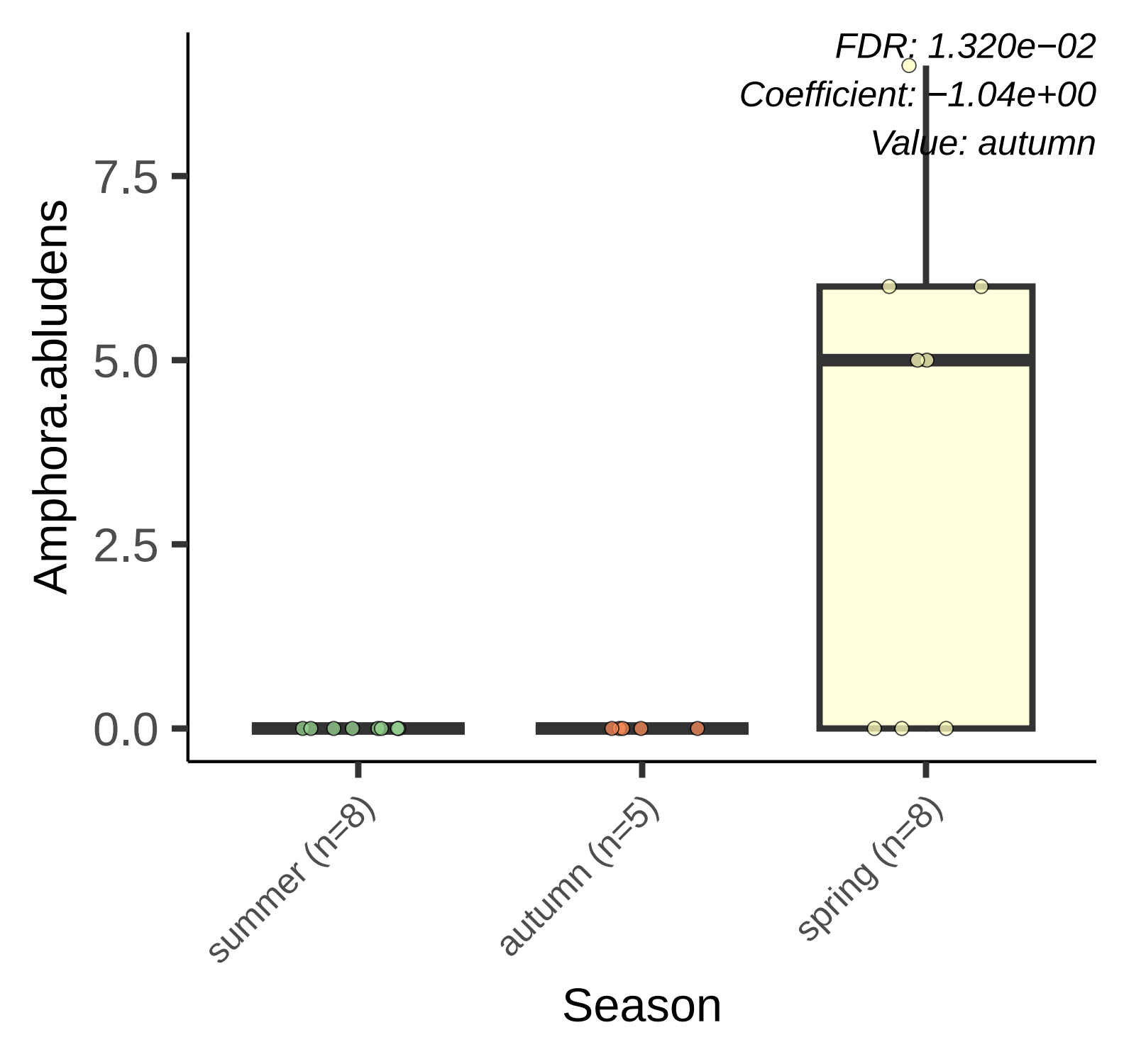

FDR: 1.263e−02
Coefficient: 1.20e+00
Value: autumn
Haematospirillum.jordaniae
80
60
40
summer (n=8)
autumn (n=5)
spring (n=8)
Season

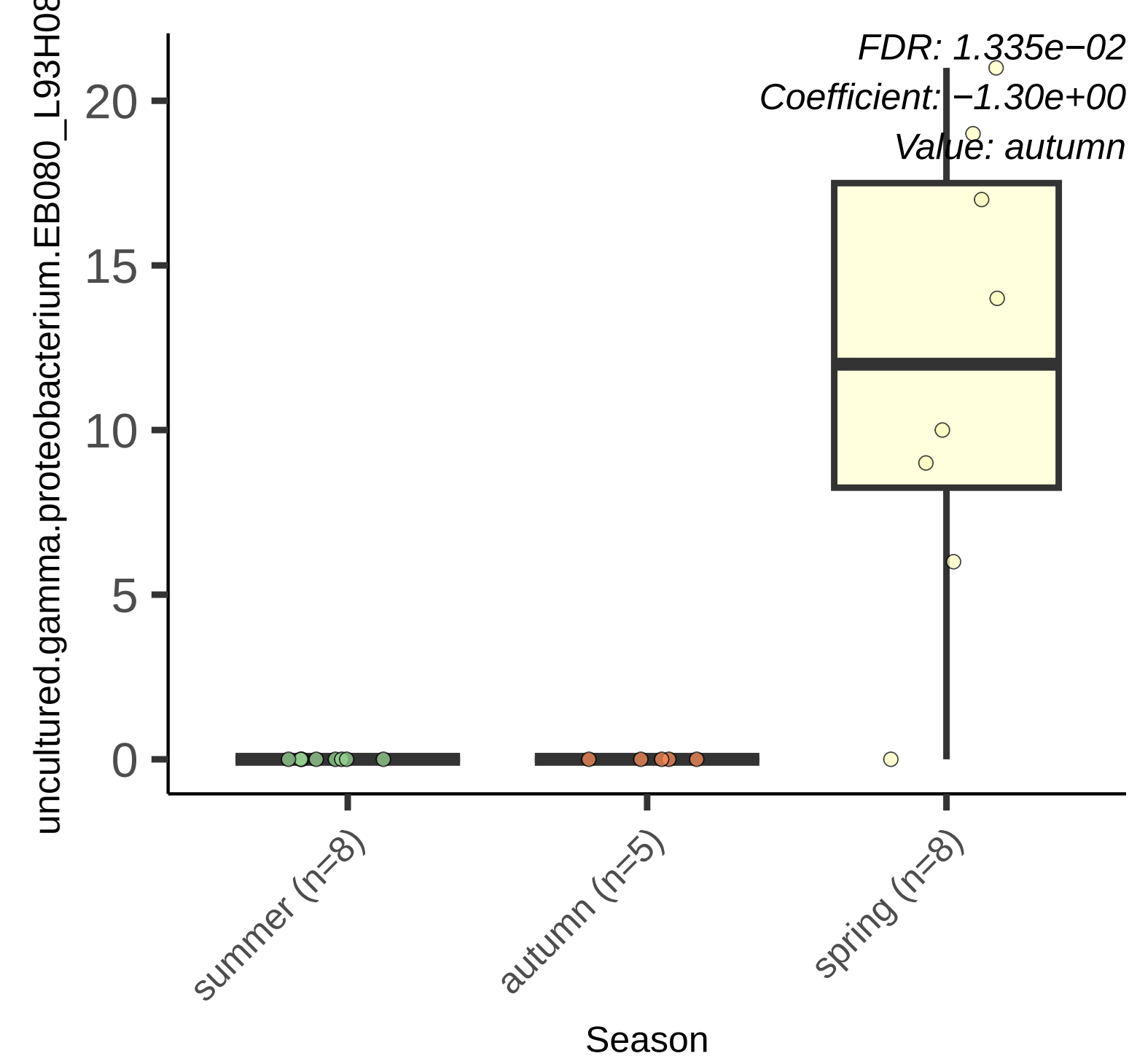

FDR: 1.268e−02
Coefficient: −9.43e−01
Value: autumn
Cymbella.tumida
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

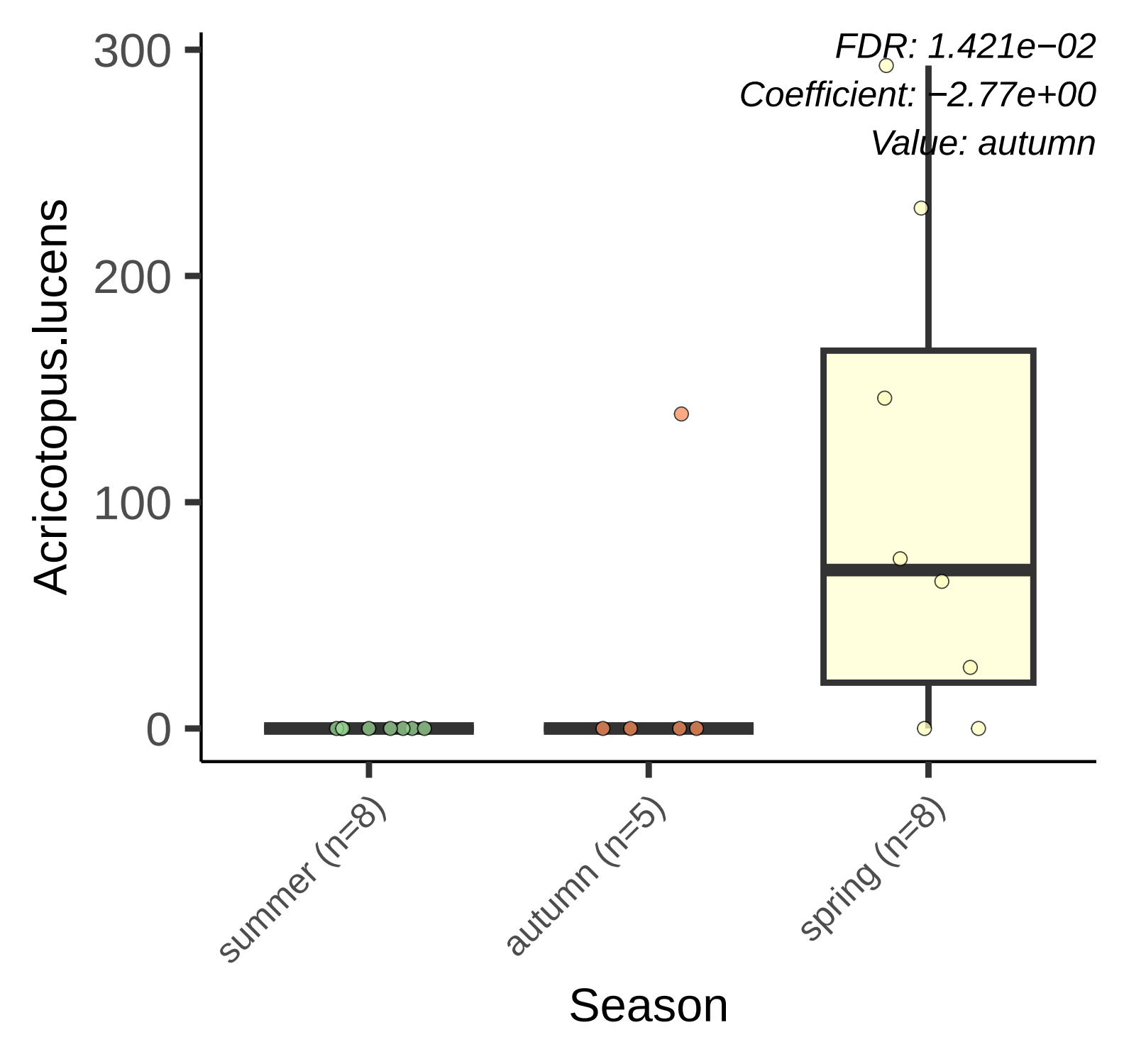

FDR: 1.285e−02
Coefficient: −1.59e+00
Value: autumn
Cricotopus.sp..1.SRM.2010
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

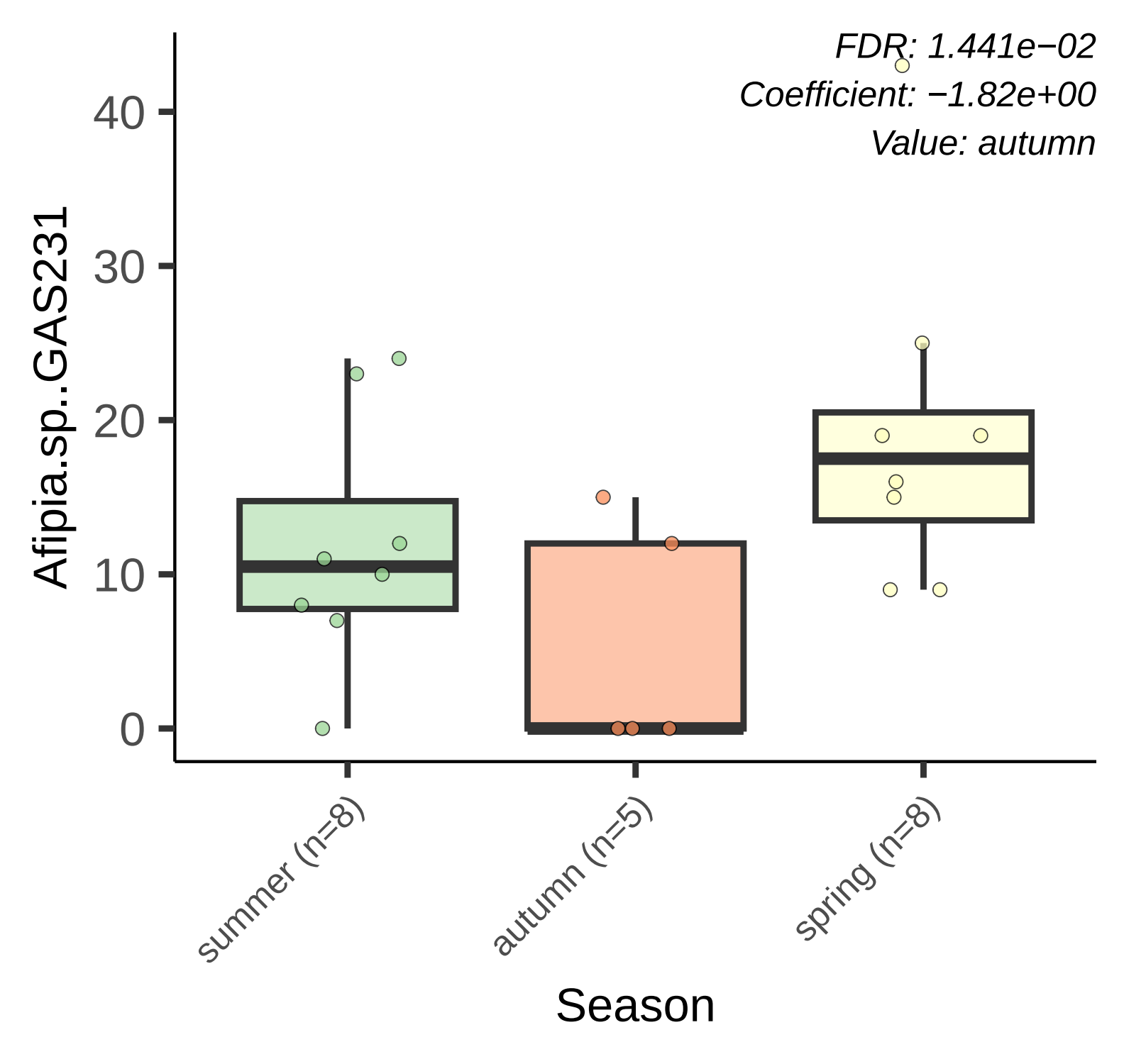

FDR: 1.305e−02
Coefficient: −1.86e+00
Value: autumn
Flavobacteriaceae.bacterium.MAR_2010_188
0
5
10
15
summer (n=8)
autumn (n=5)
spring (n=8)
Season

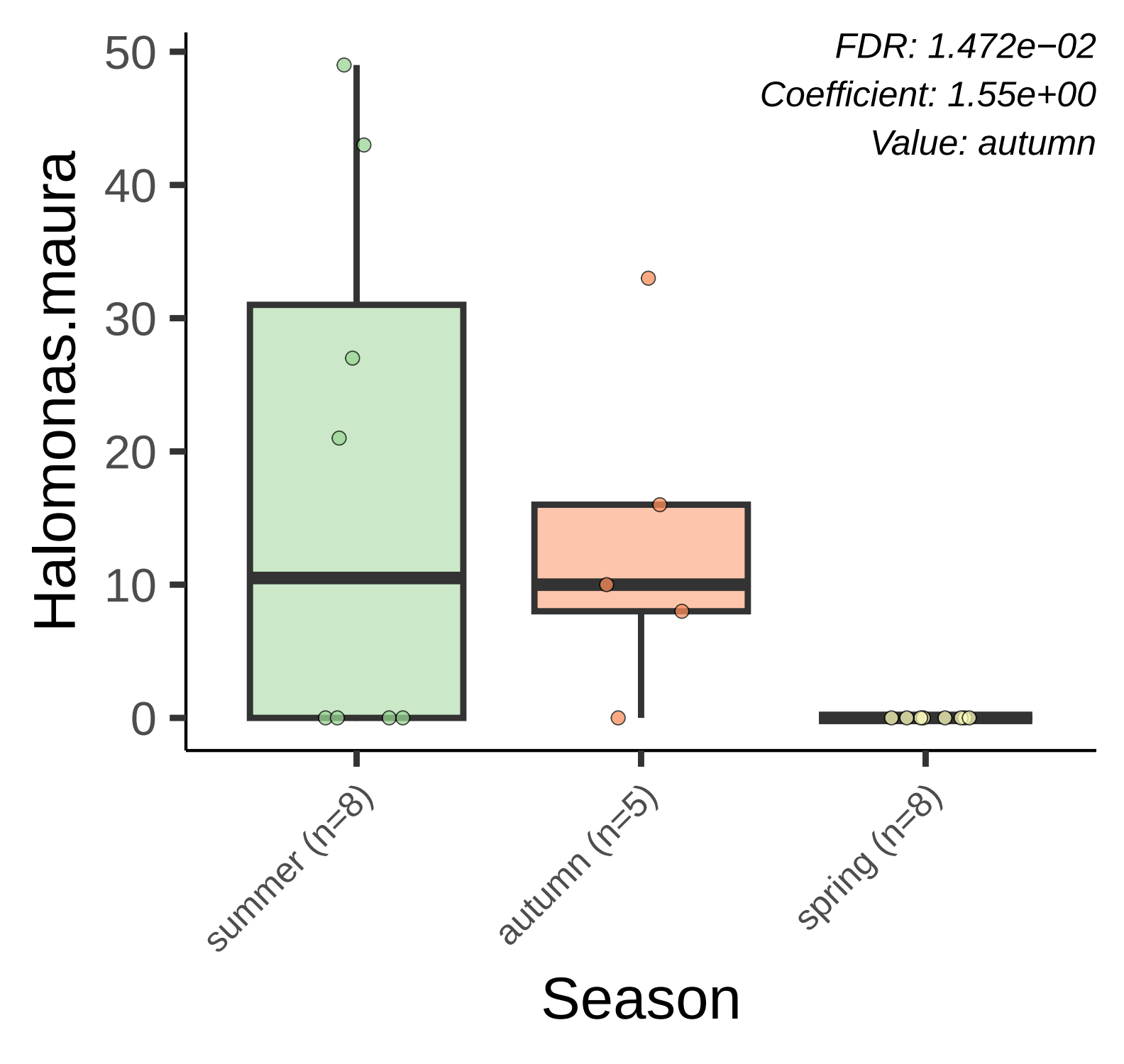

FDR: 1.305e−02
Coefficient: −1.62e+00
Value: autumn
Phaeobacter.gallaeciensis
3000
2000
1000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

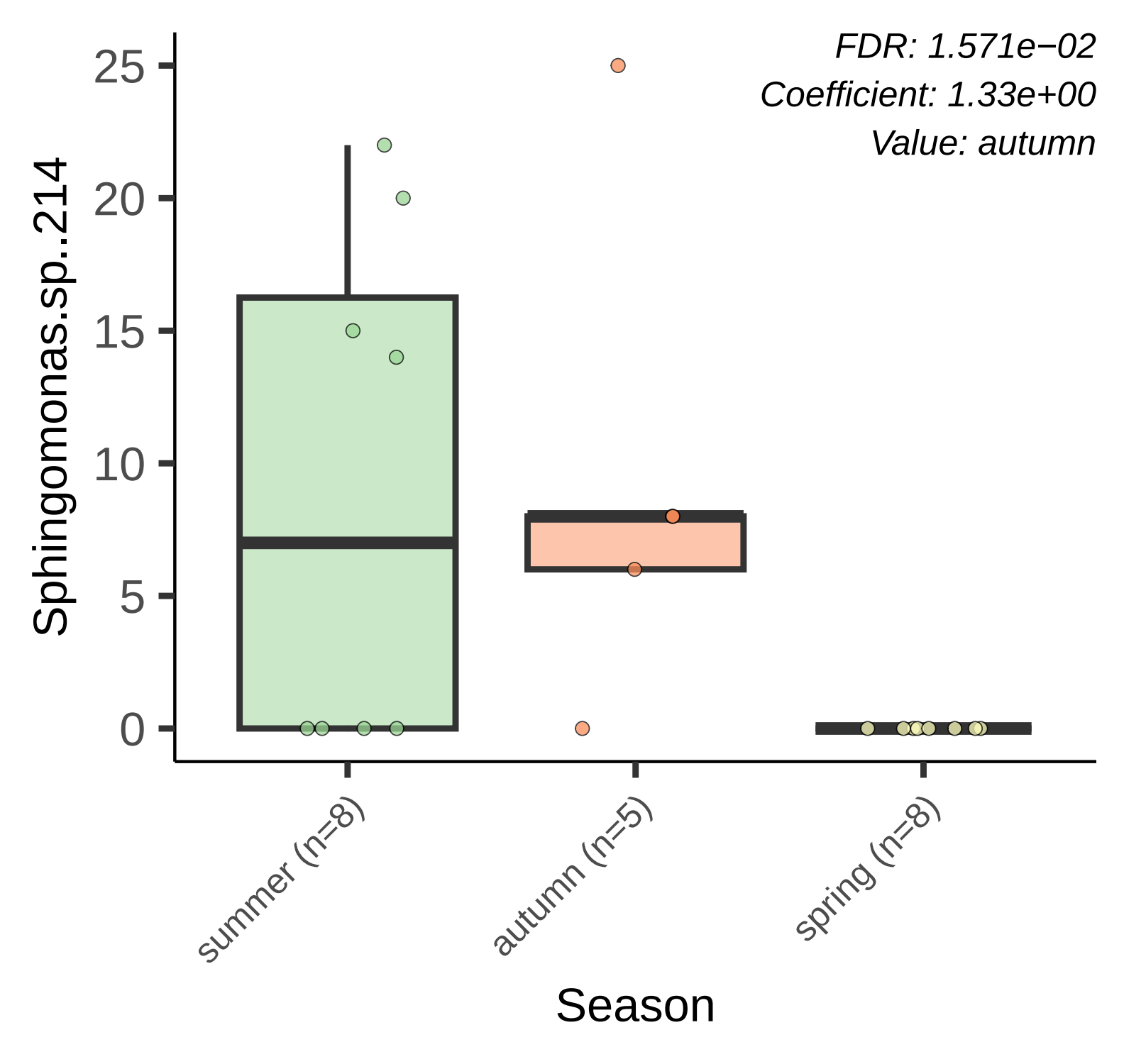

FDR: 1.320e−02
Coefficient: −1.04e+00
Value: autumn
Amphora.abludens
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

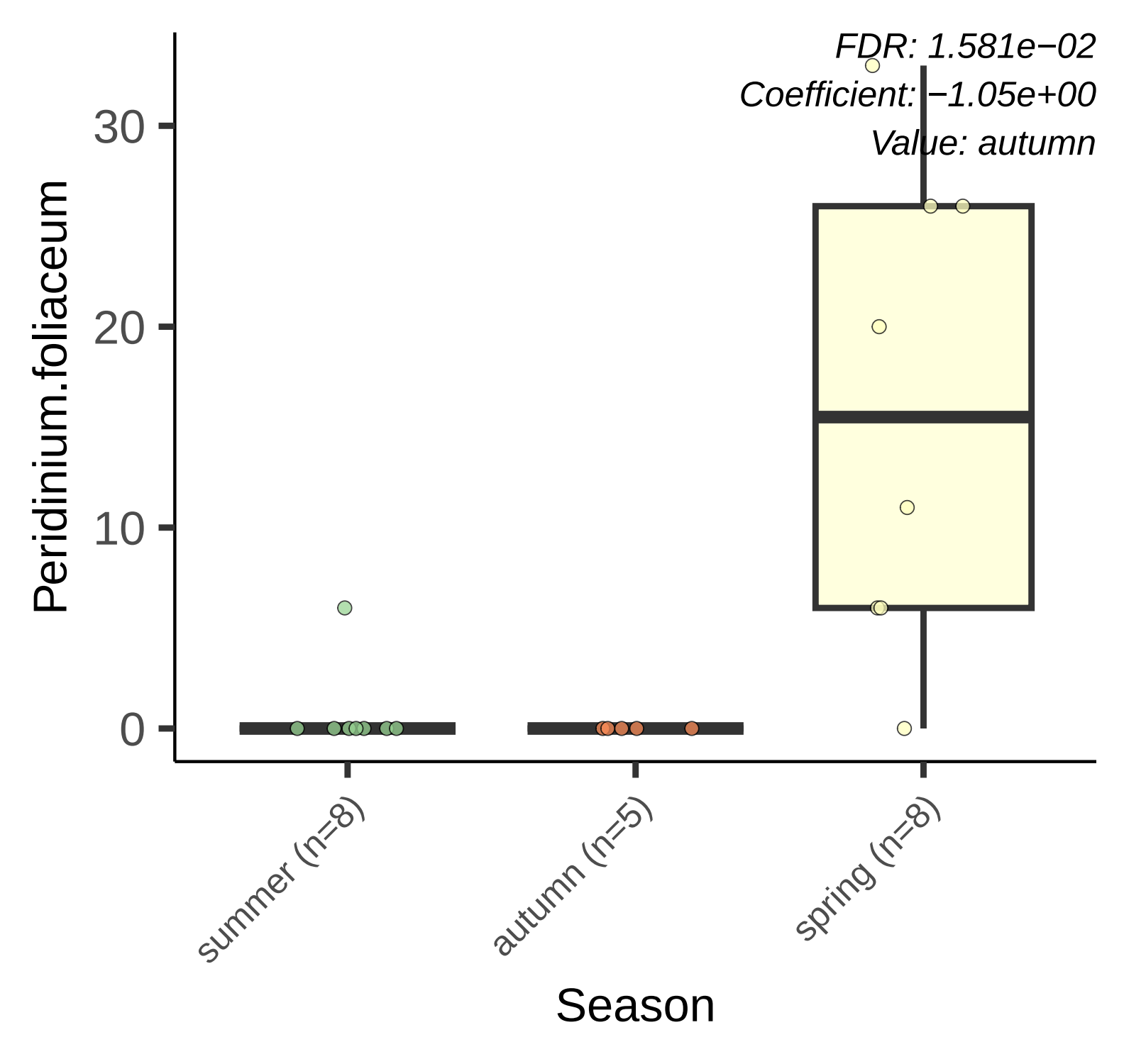

FDR: 1.335e−02
Coefficient: −1.30e+00
Value: autumn
uncultured.gamma.proteobacterium.EB080_L93H08
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

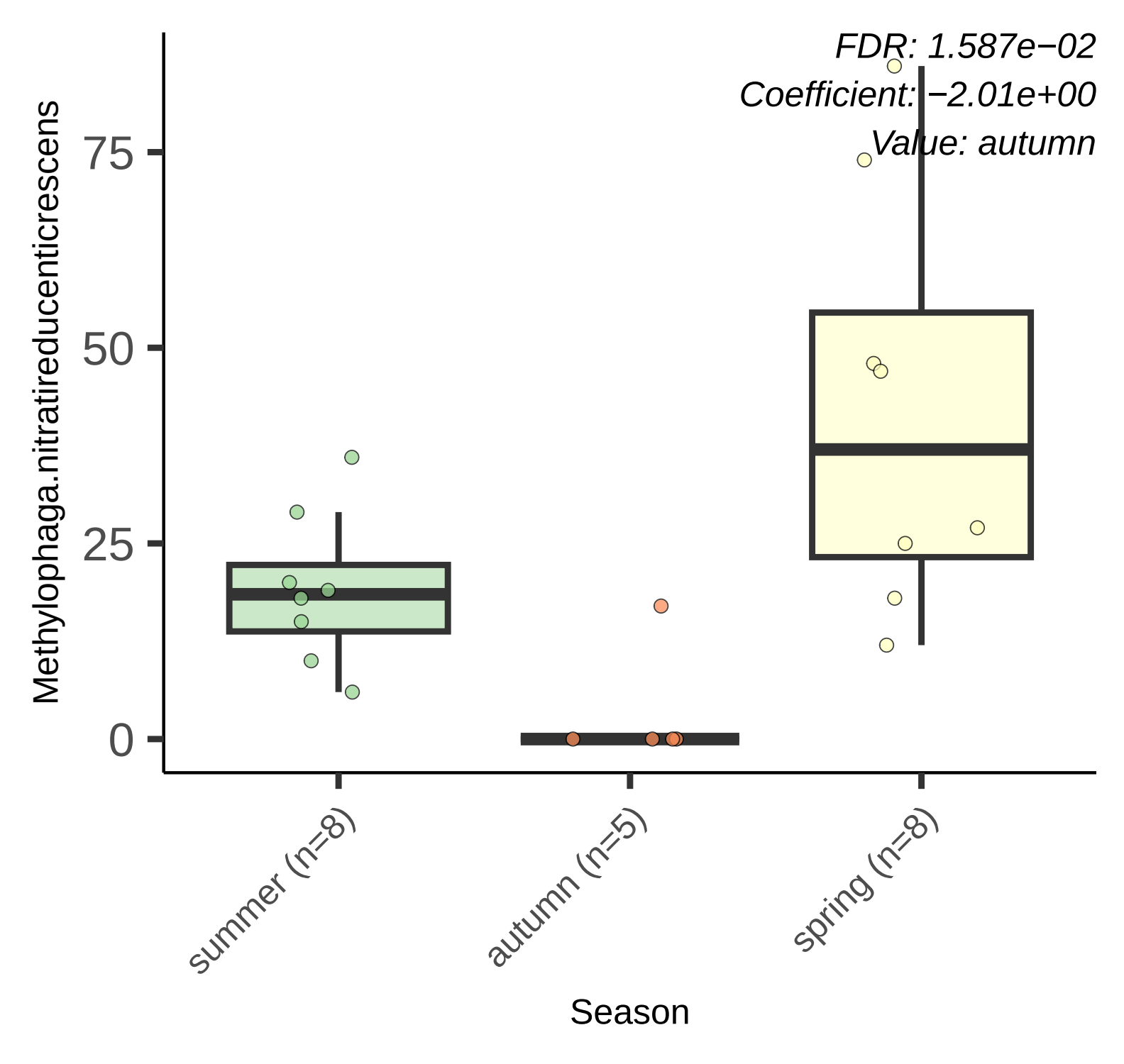

FDR: 1.421e−02
Coefficient: −2.77e+00
Value: autumn
Acricotopus.lucens
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

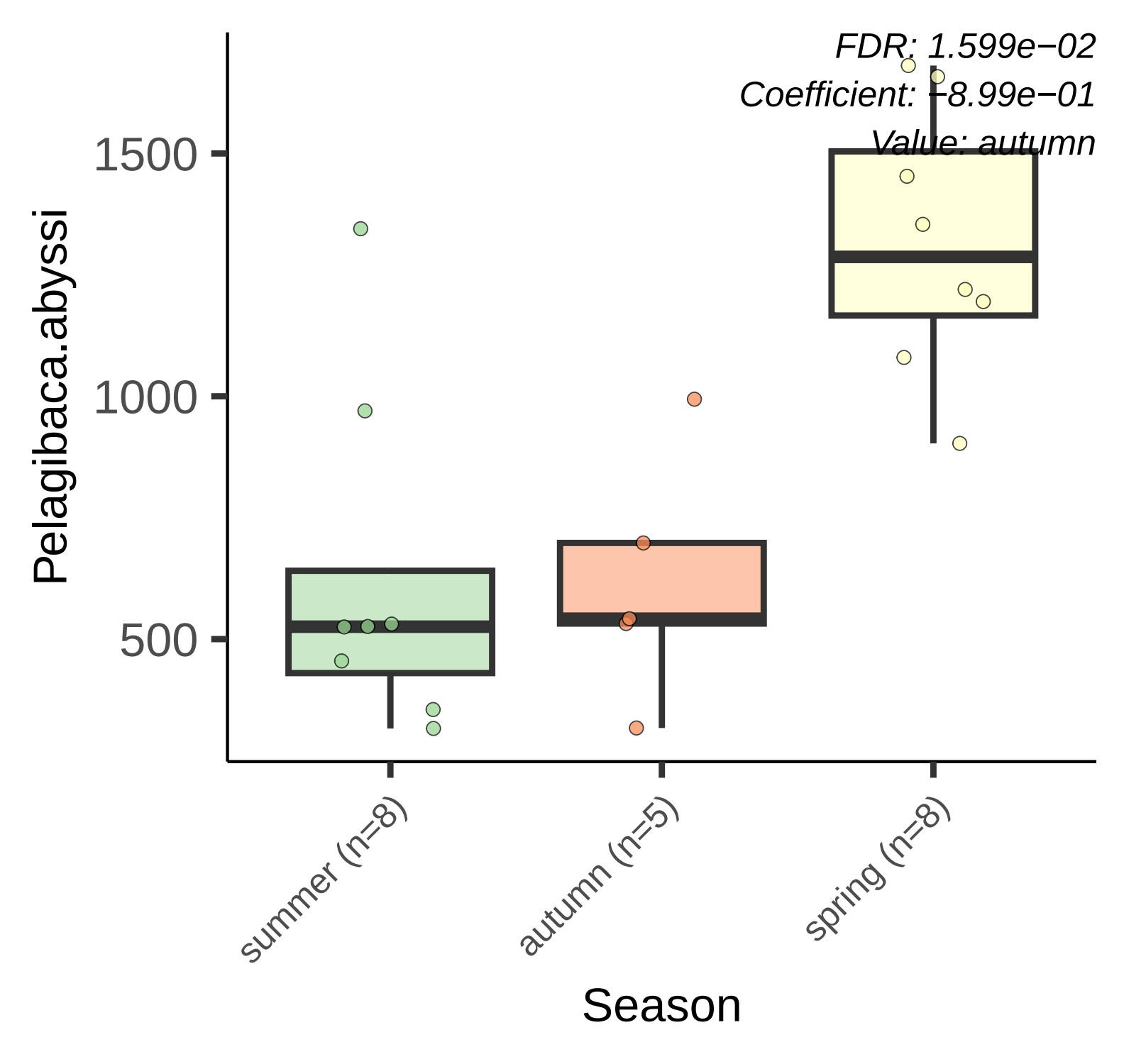

FDR: 1.441e−02
Coefficient: −1.82e+00
Value: autumn
Afipia.sp..GAS231
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

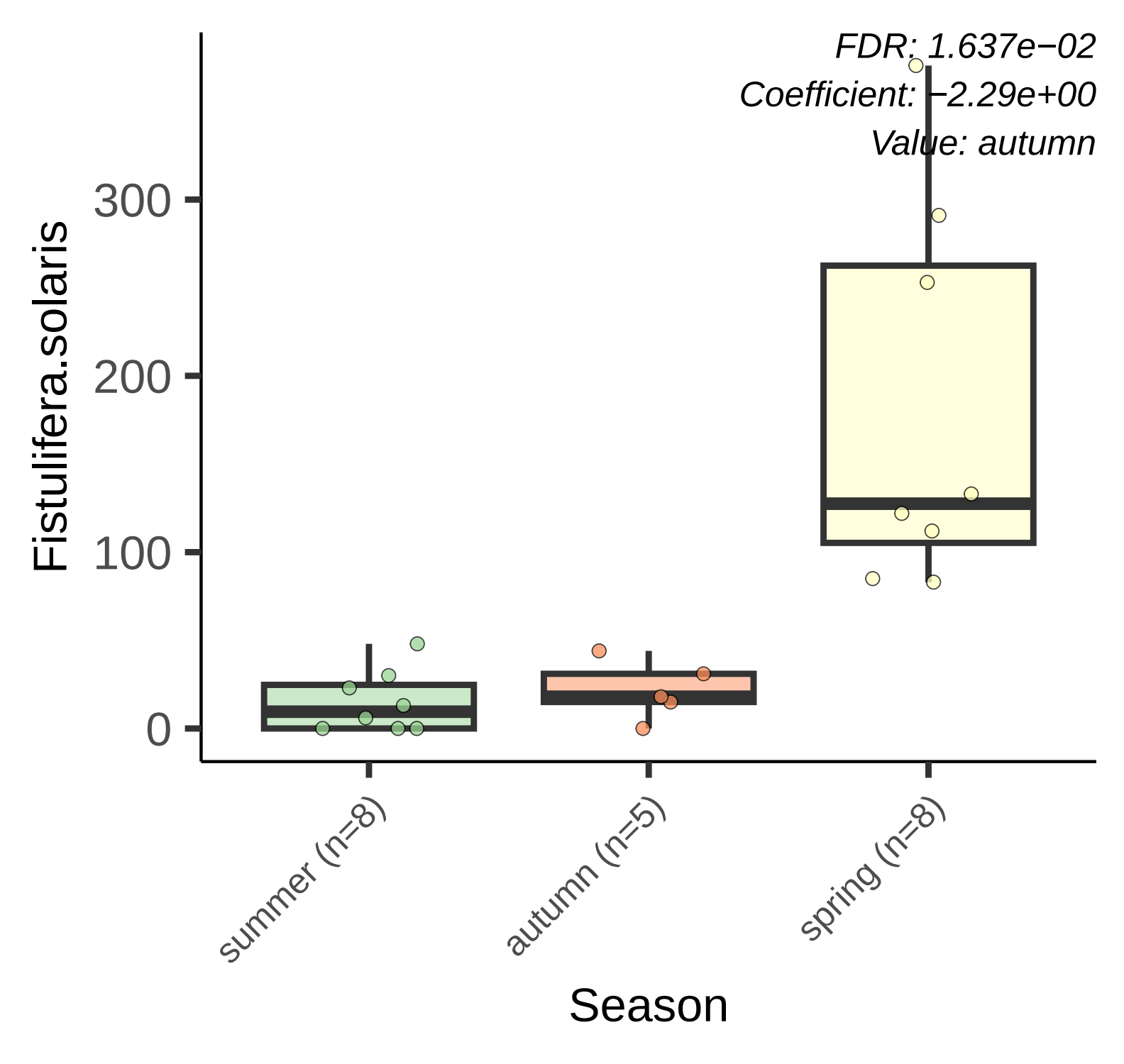

FDR: 1.472e−02
Coefficient: 1.55e+00
Value: autumn
Halomonas.maura
50
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

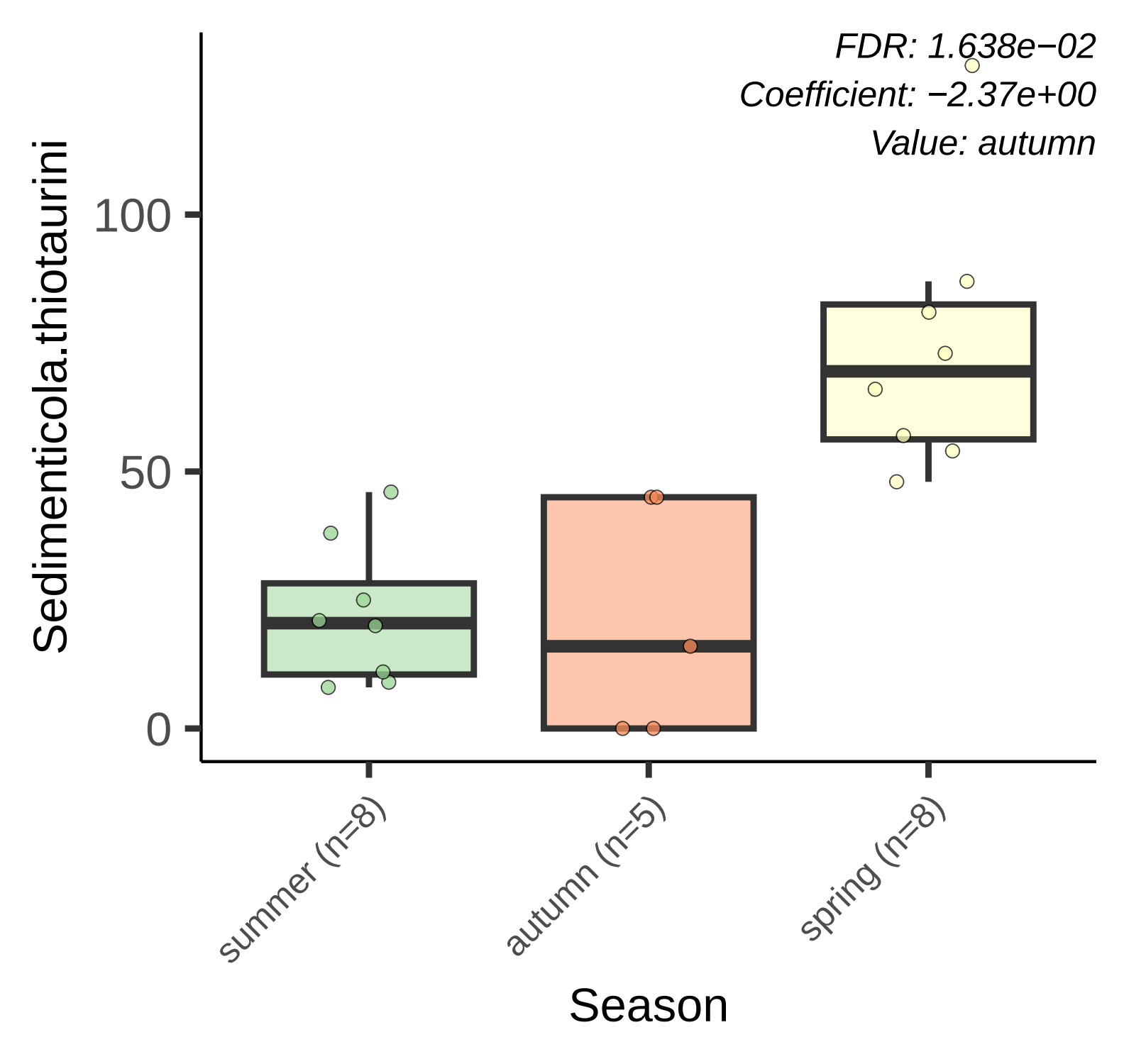

FDR: 1.571e−02
Coefficient: 1.33e+00
Value: autumn
Sphingomonas.sp..214
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

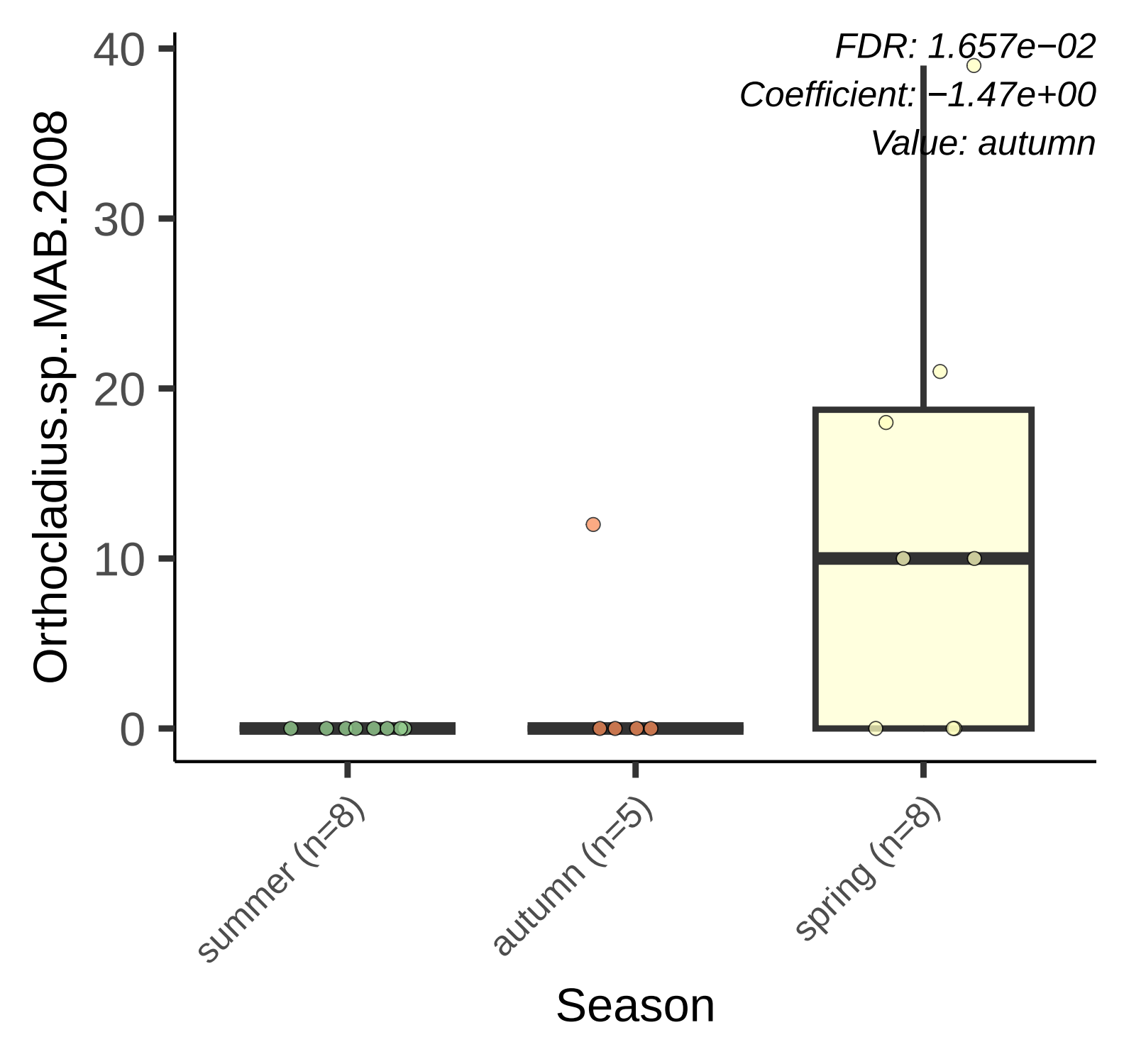

FDR: 1.581e−02
Coefficient: −1.05e+00
Value: autumn
Peridinium.foliaceum
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

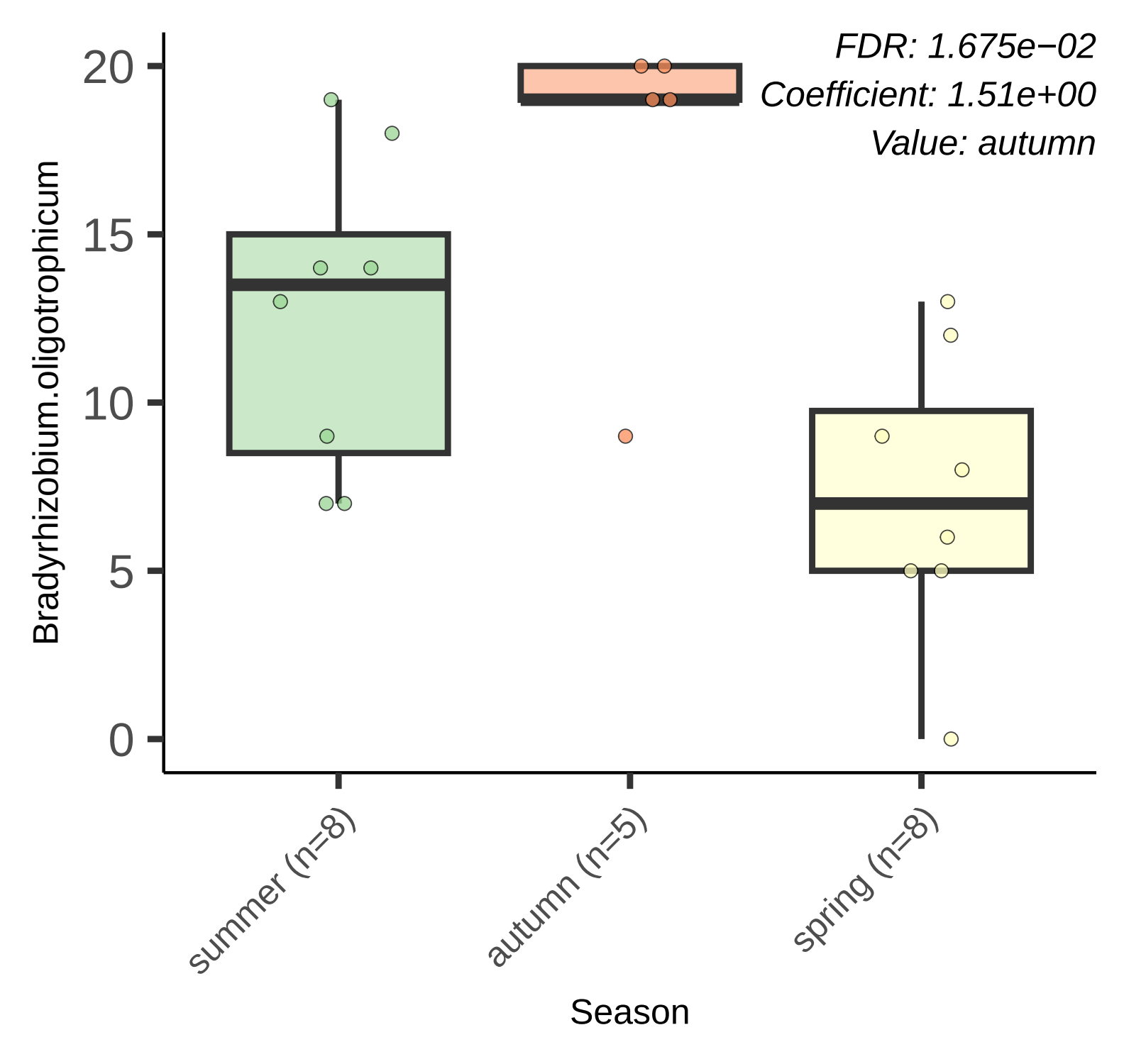

FDR: 1.587e−02
Coefficient: −2.01e+00
Value: autumn
Methylophaga.nitratireducenticrescens
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

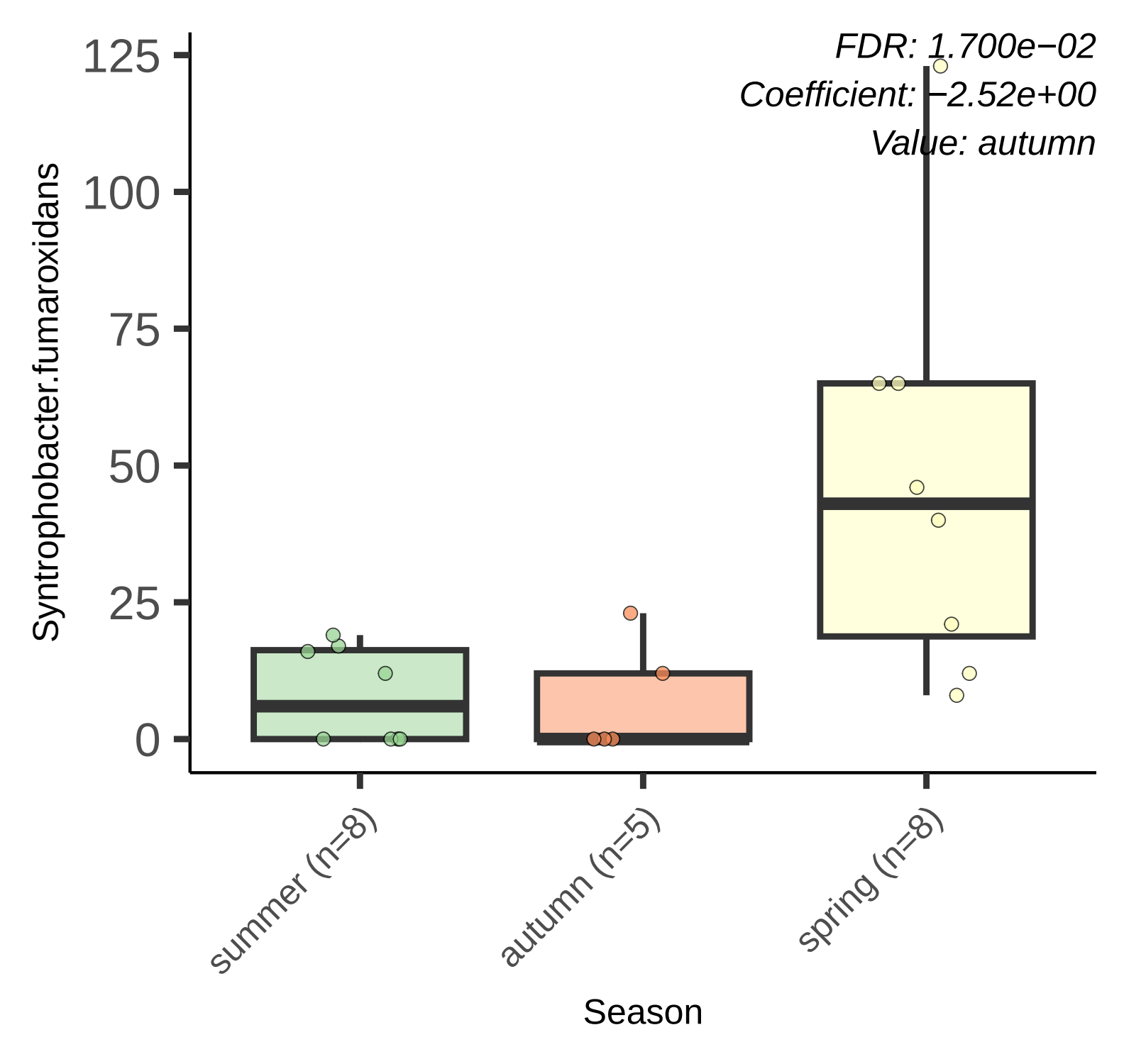

FDR: 1.599e−02
Coefficient: −8.99e−01
Value: autumn
1500
1000
500
Pelagibaca.abyssi
summer (n=8)
autumn (n=5)
spring (n=8)
Season

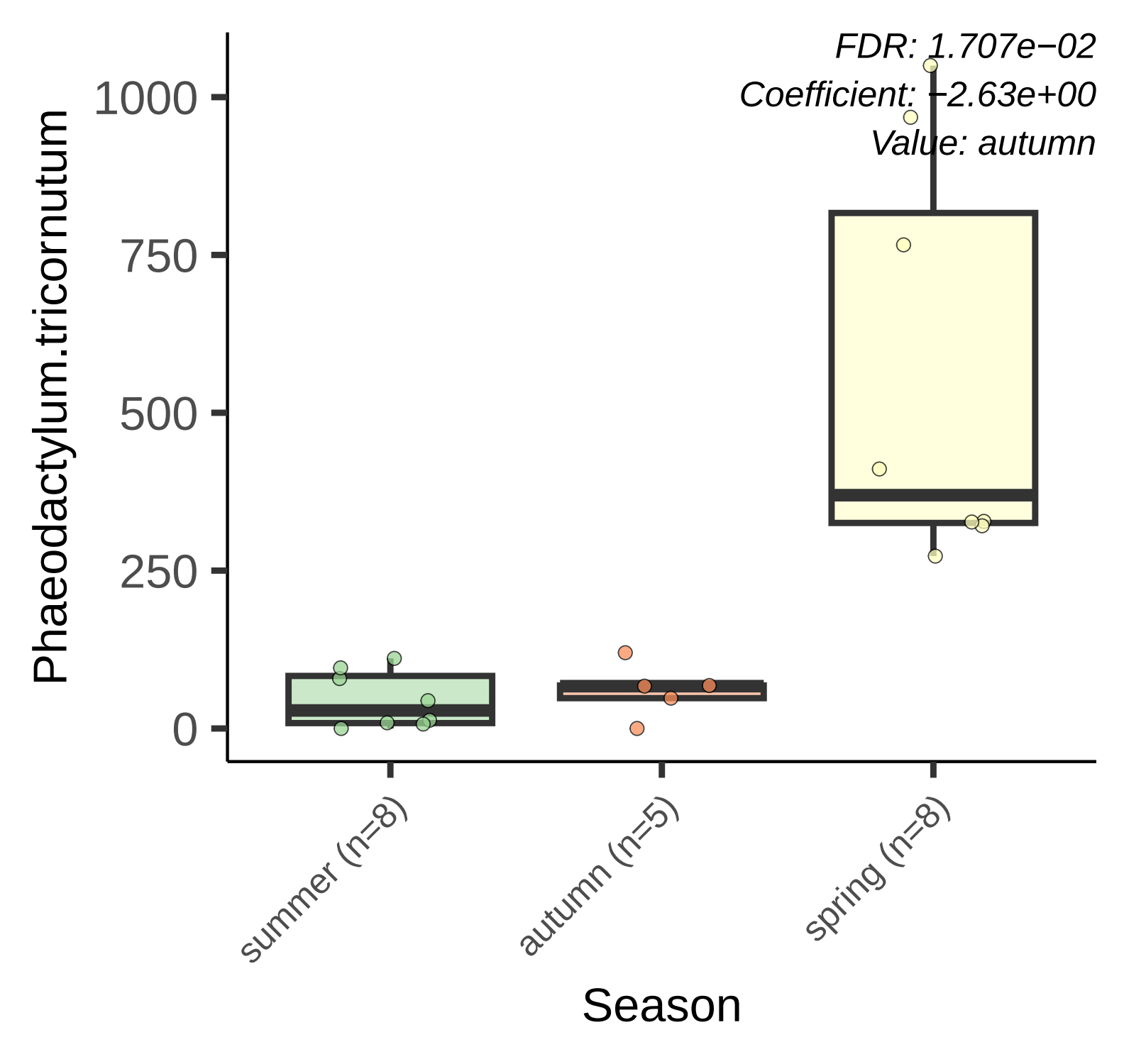

FDR: 1.637e−02
Coefficient: −2.29e+00
Value: autumn
Fistulifera.solaris
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

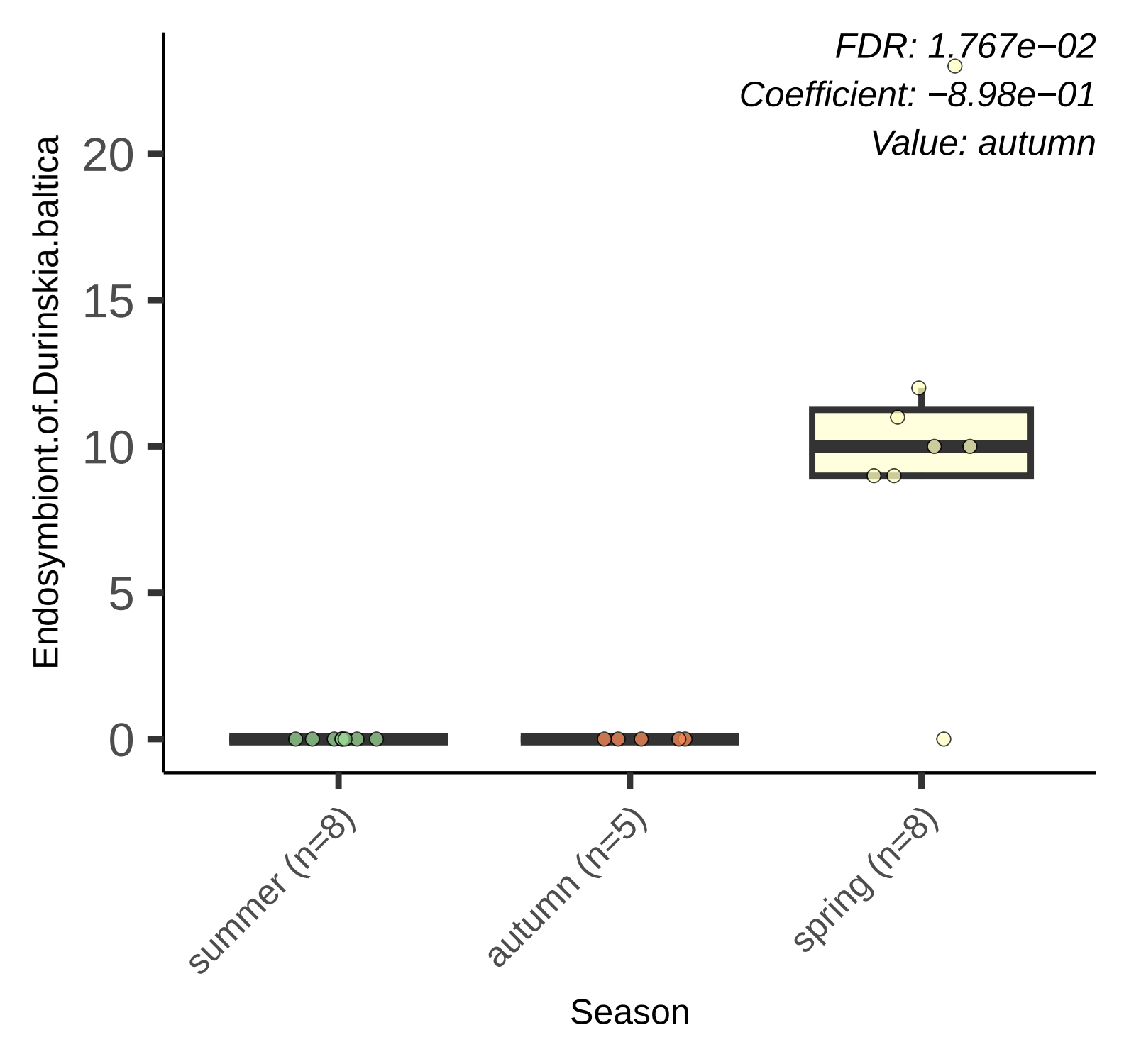

FDR: 1.638e−02
Coefficient: −2.37e+00
Value: autumn
Sedimenticola.thiotaurini
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

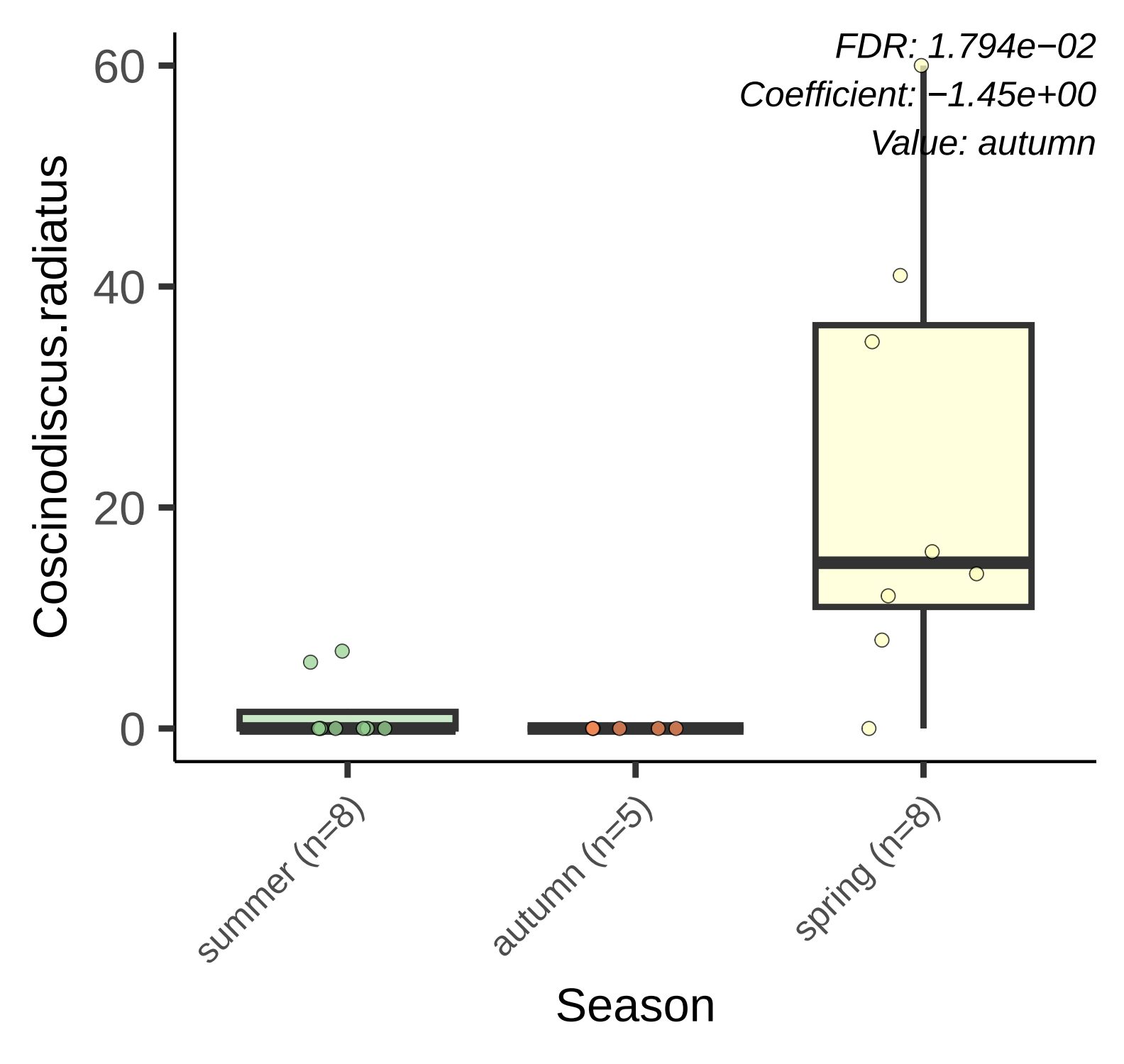

FDR: 1.657e−02
Coefficient: −1.47e+00
Value: autumn
Orthocladius.sp..MAB.2008
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

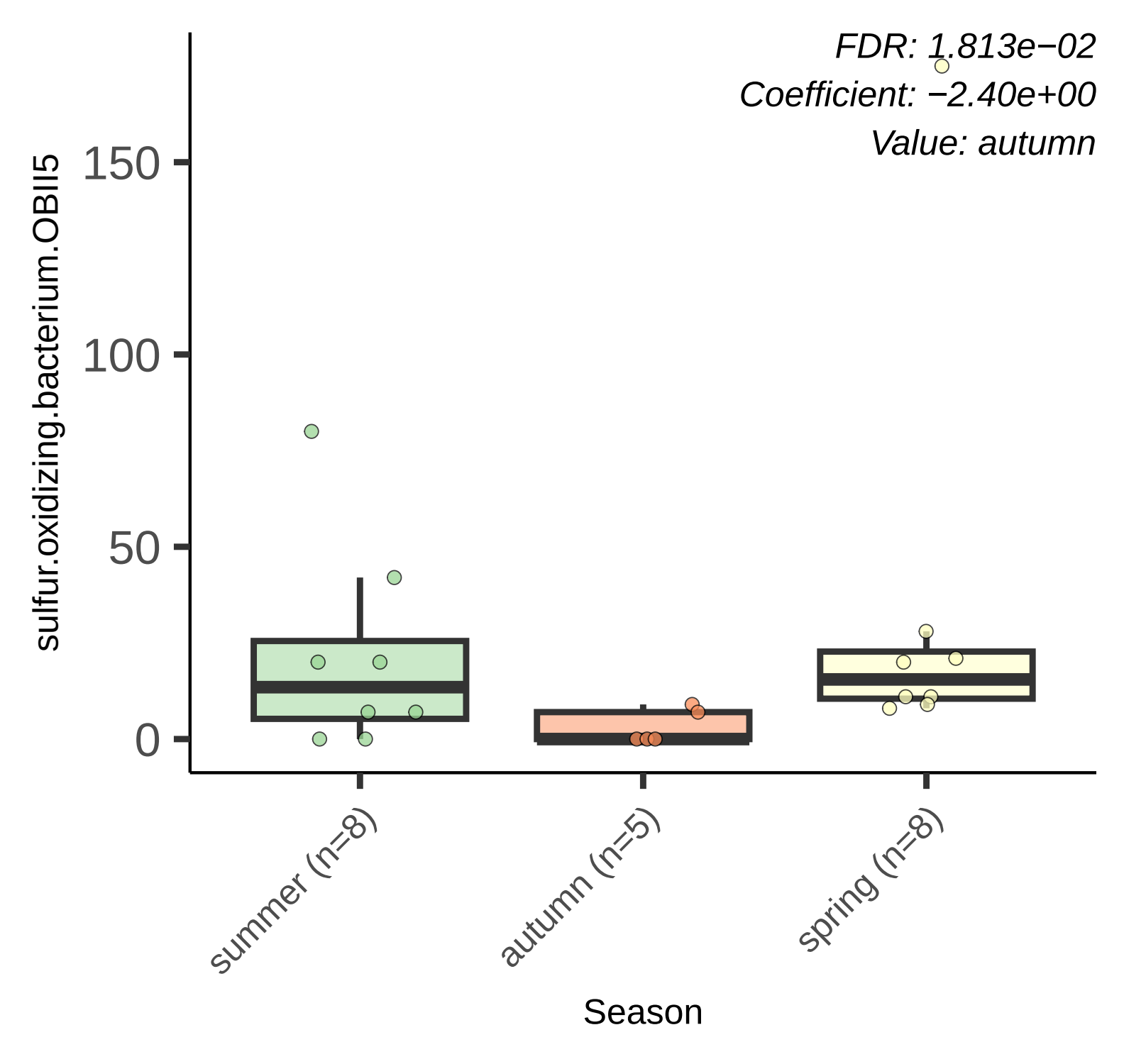

FDR: 1.675e−02
Coefficient: 1.51e+00
Value: autumn
Bradyrhizobium.oligotrophicum
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

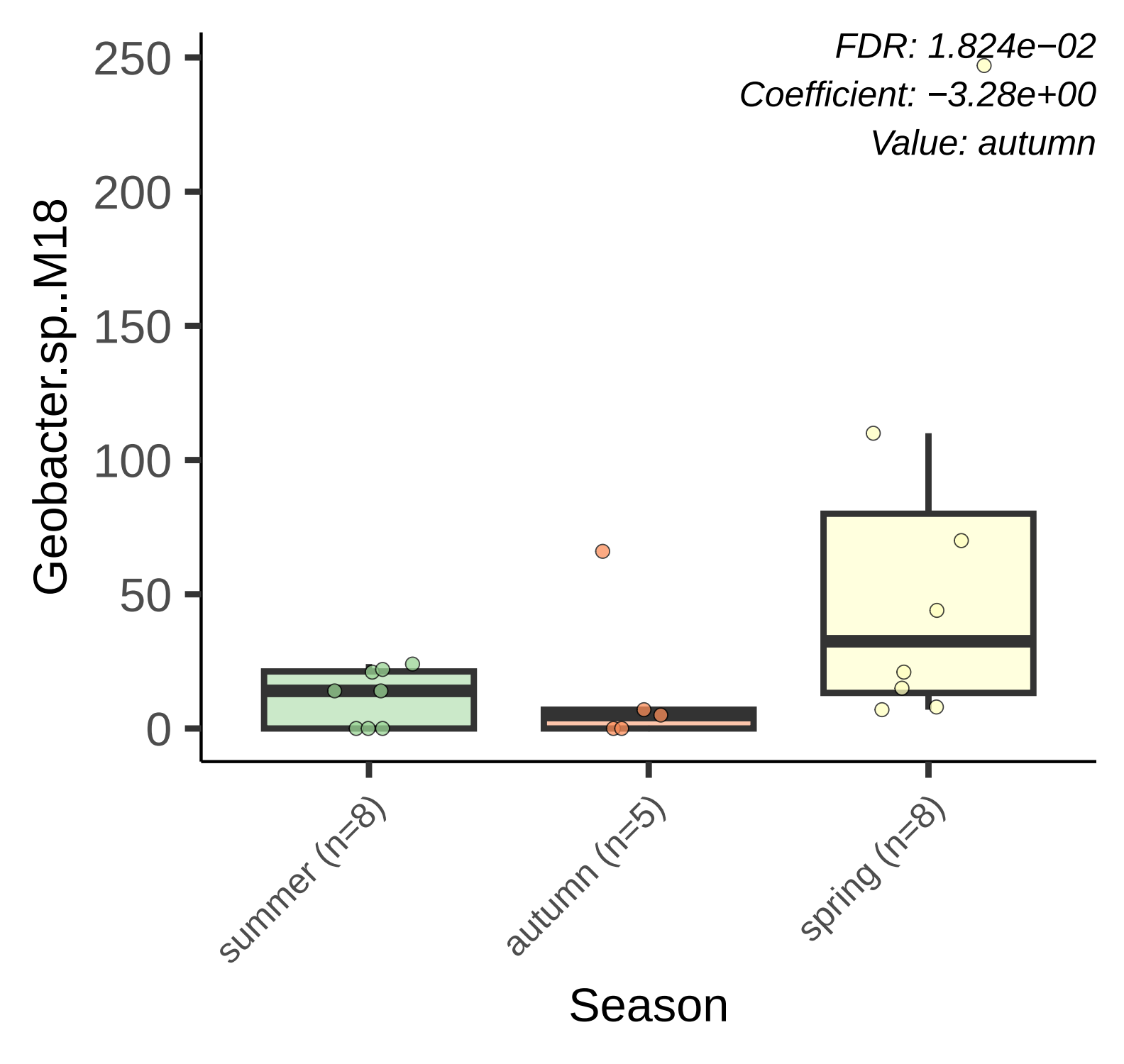

FDR: 1.700e−02
Coefficient: −2.52e+00
Value: autumn
Syntrophobacter.fumaroxidans
125
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

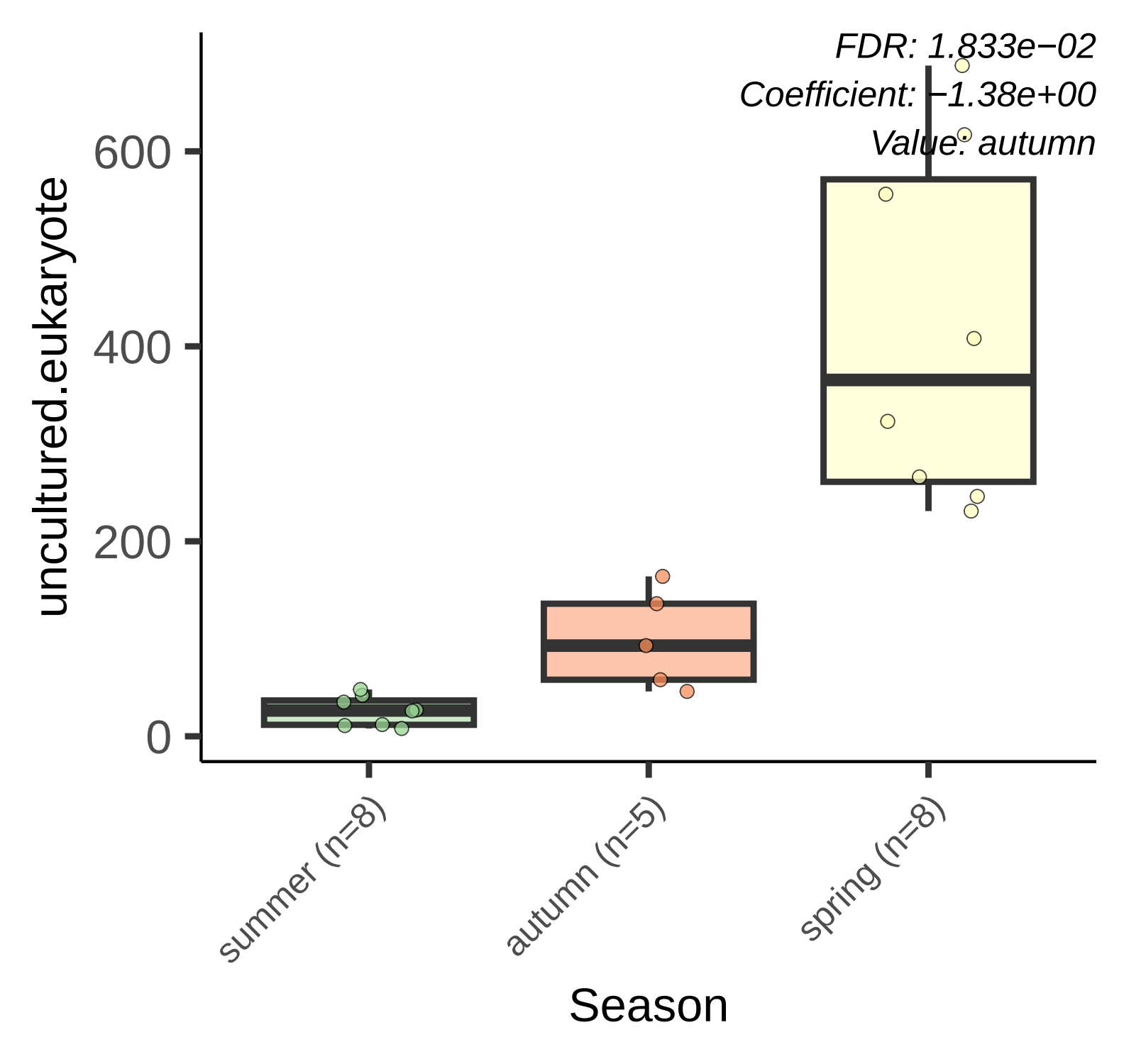

FDR: 1.707e−02
Coefficient: −2.63e+00
Value: autumn
Phaeodactylum.tricornutum
1000
750
500
250
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

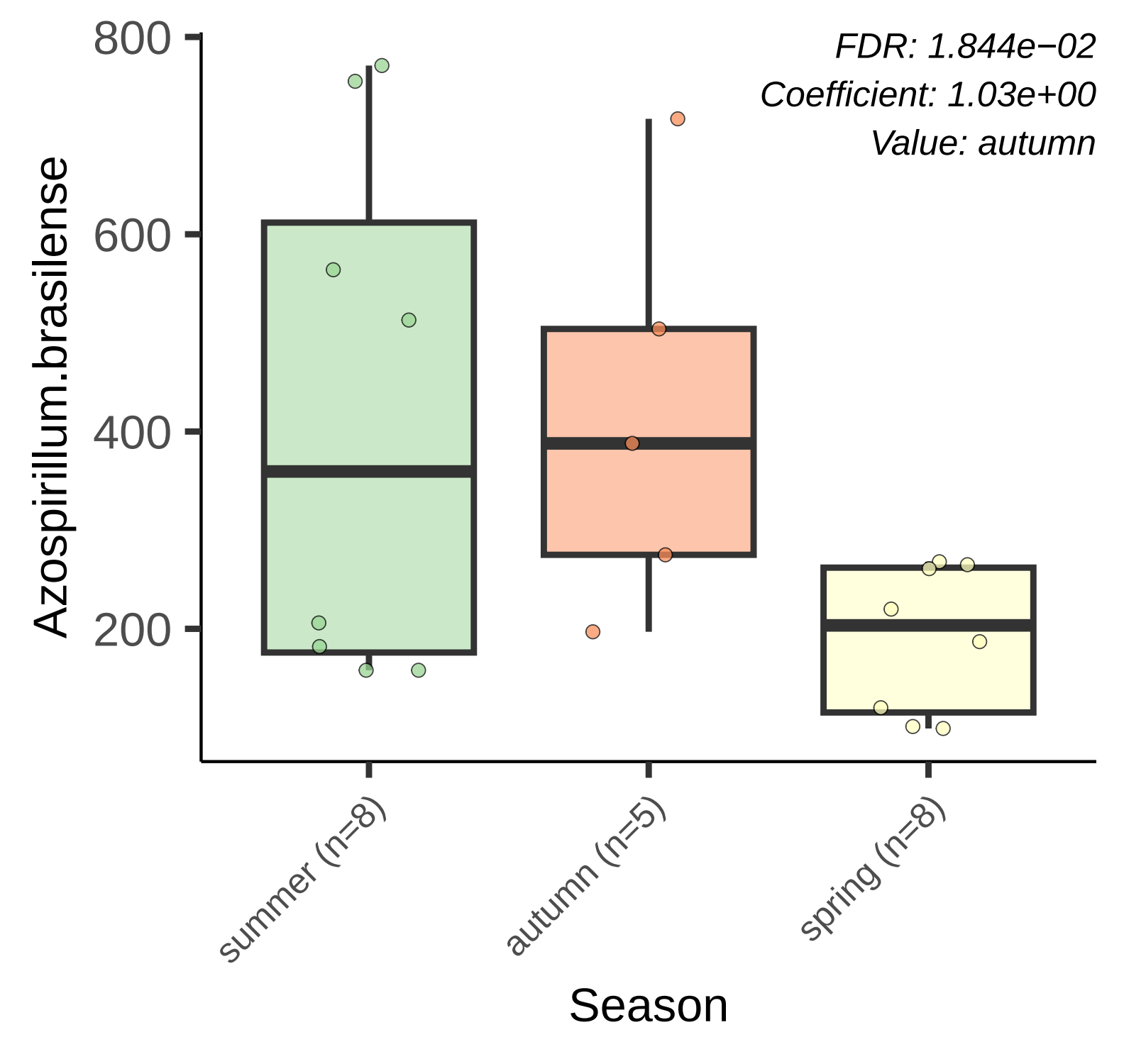

FDR: 1.767e−02
Coefficient: −8.98e−01
Value: autumn
Endosymbiont.of.Durinskia.baltica
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

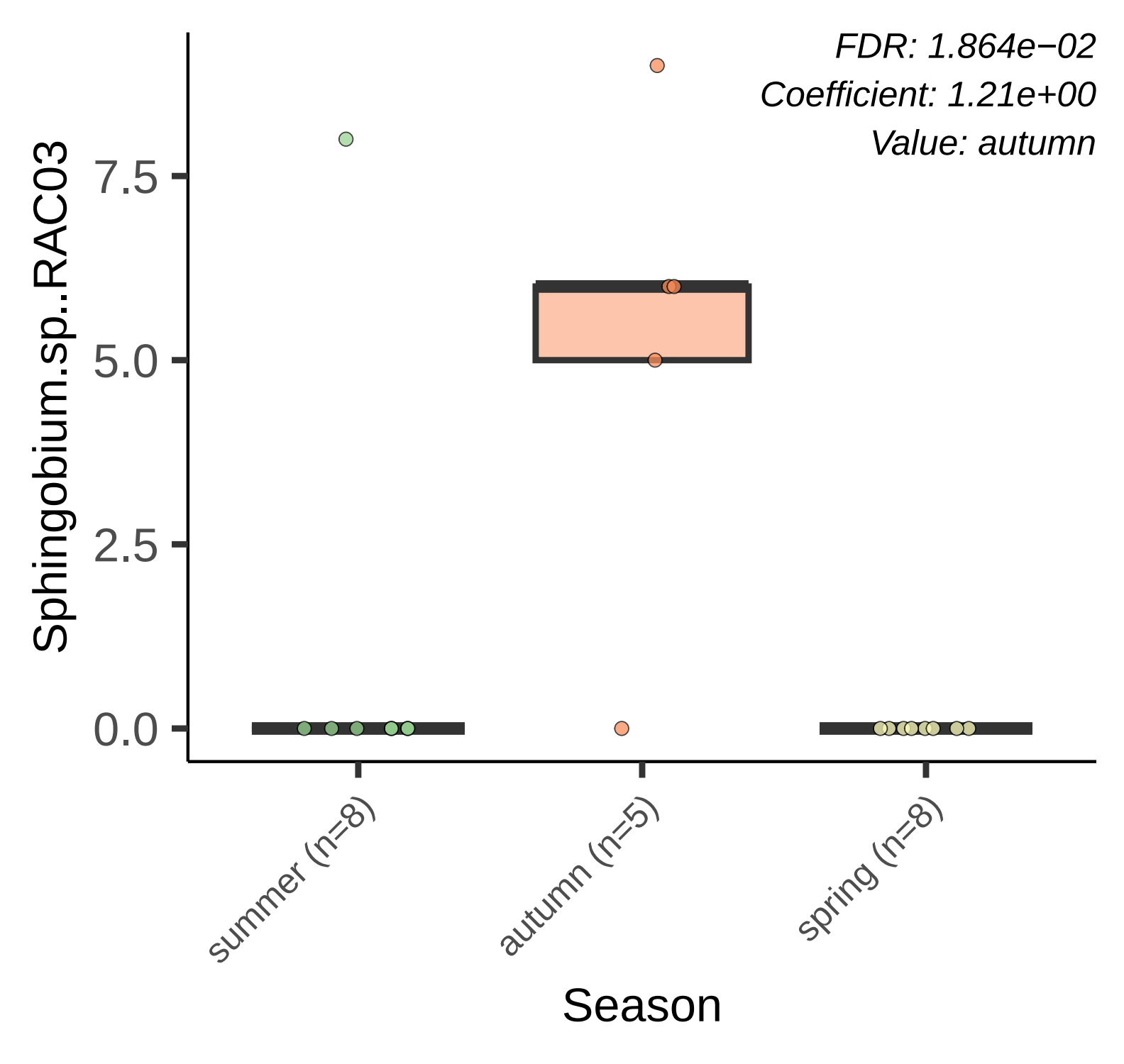

FDR: 1.794e−02
Coefficient: −1.45e+00
Value: autumn
Coscinodiscus.radiatus
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

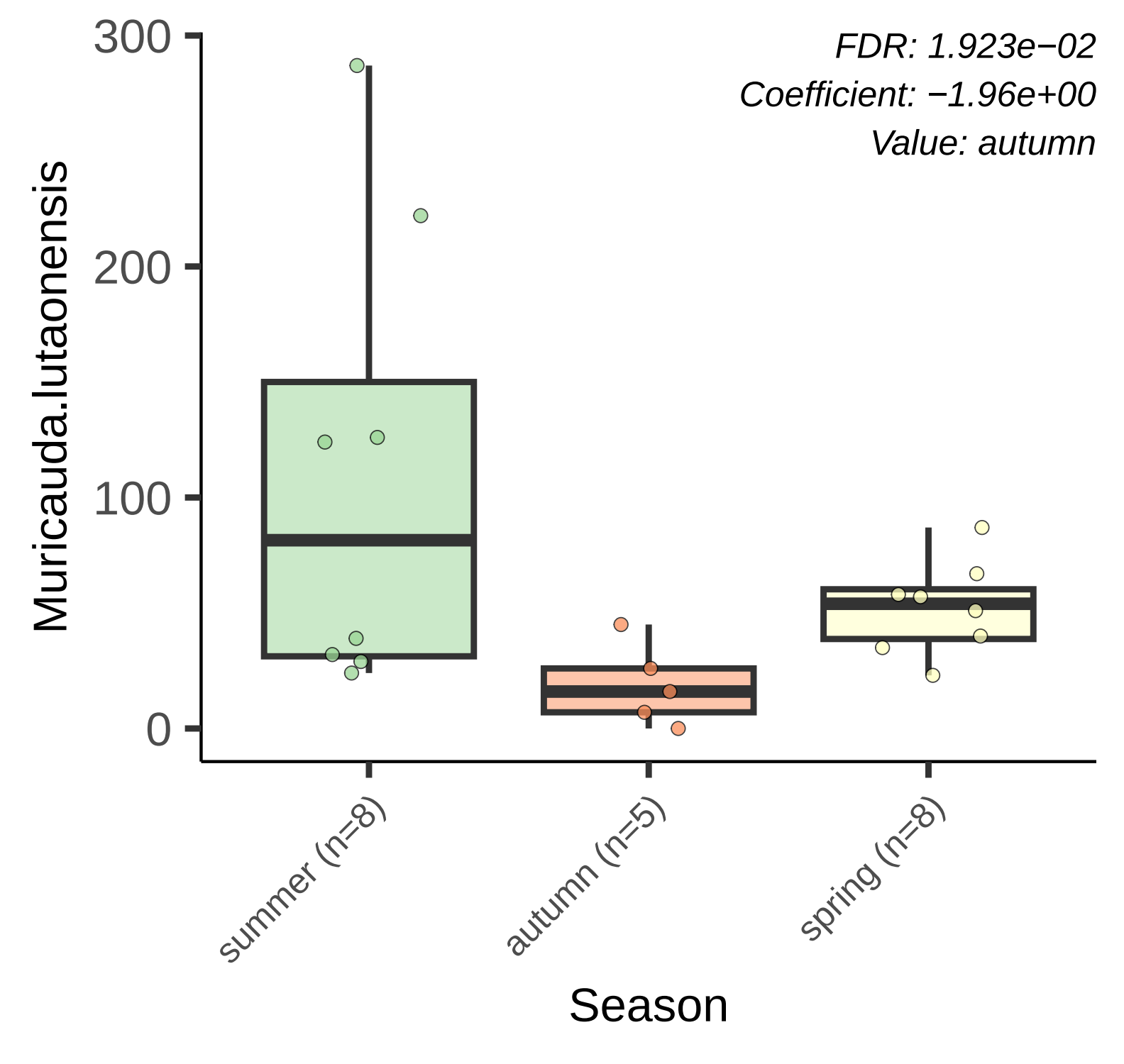

FDR: 1.813e−02
Coefficient: −2.40e+00
Value: autumn
sulfur.oxidizing.bacterium.OBII5
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

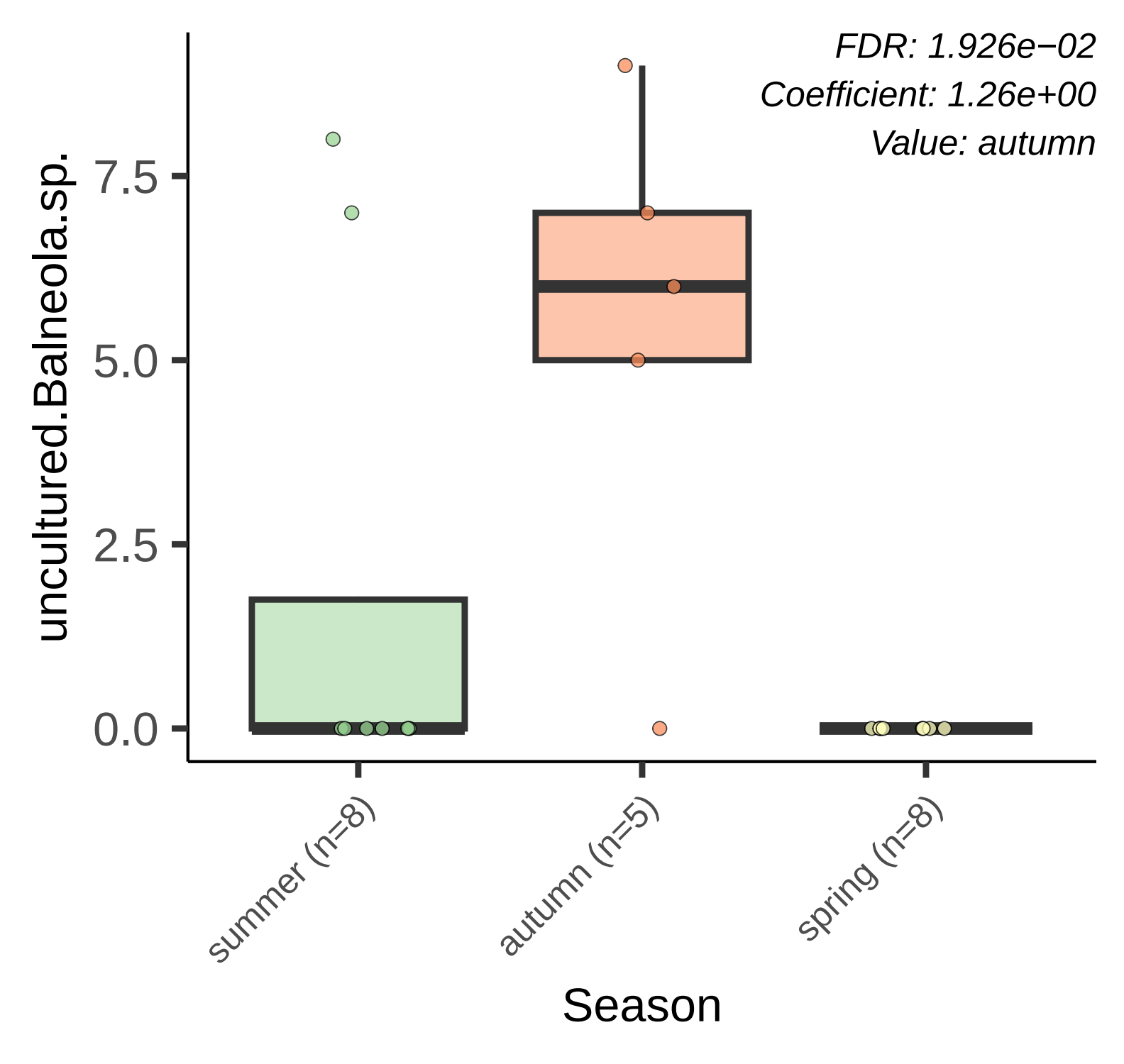

FDR: 1.824e−02
Coefficient: −3.28e+00
Value: autumn
Geobacter.sp..M18
250
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

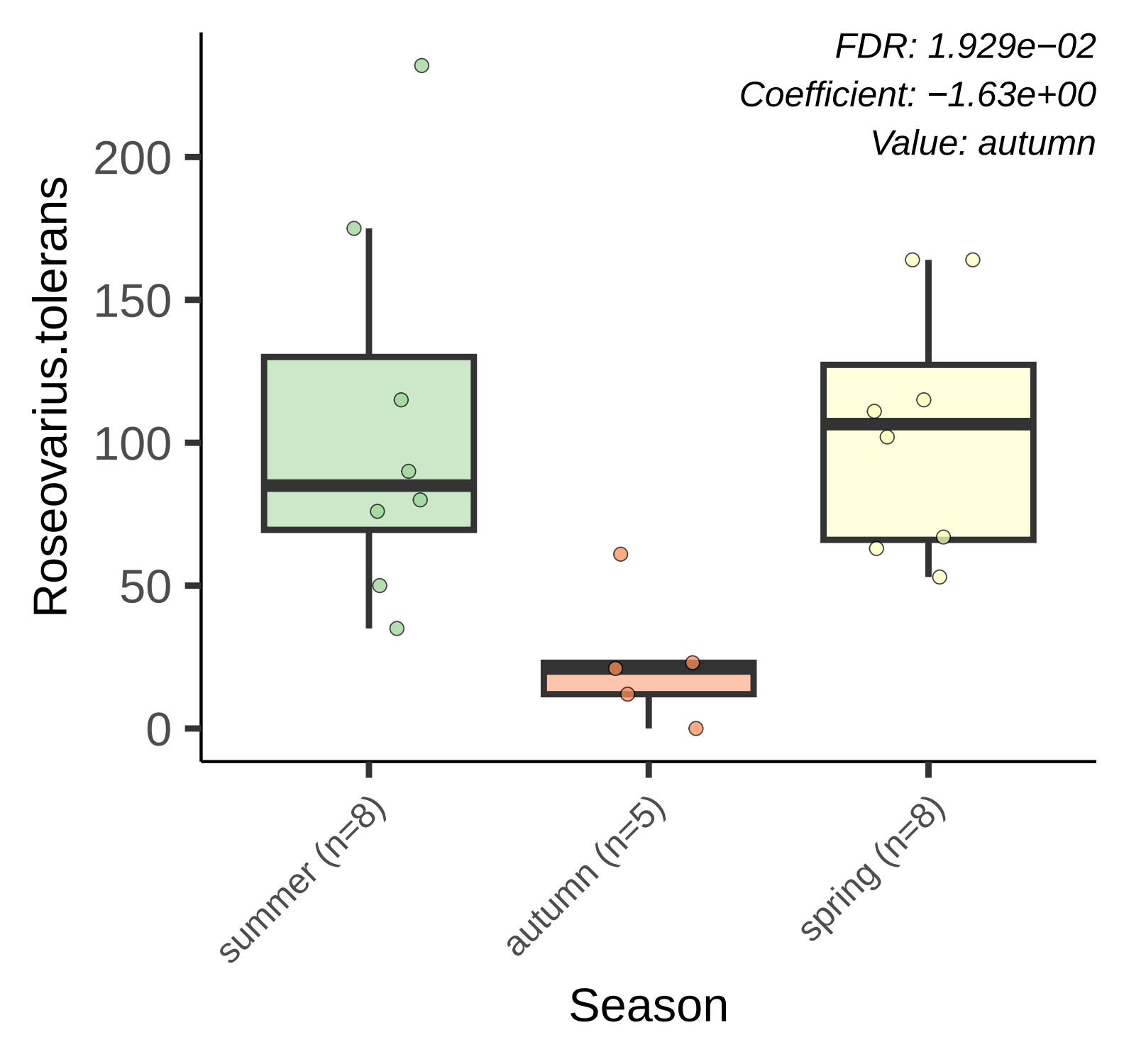

FDR: 1.833e−02
Coefficient: −1.38e+00
Value: autumn
uncultured.eukaryote
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

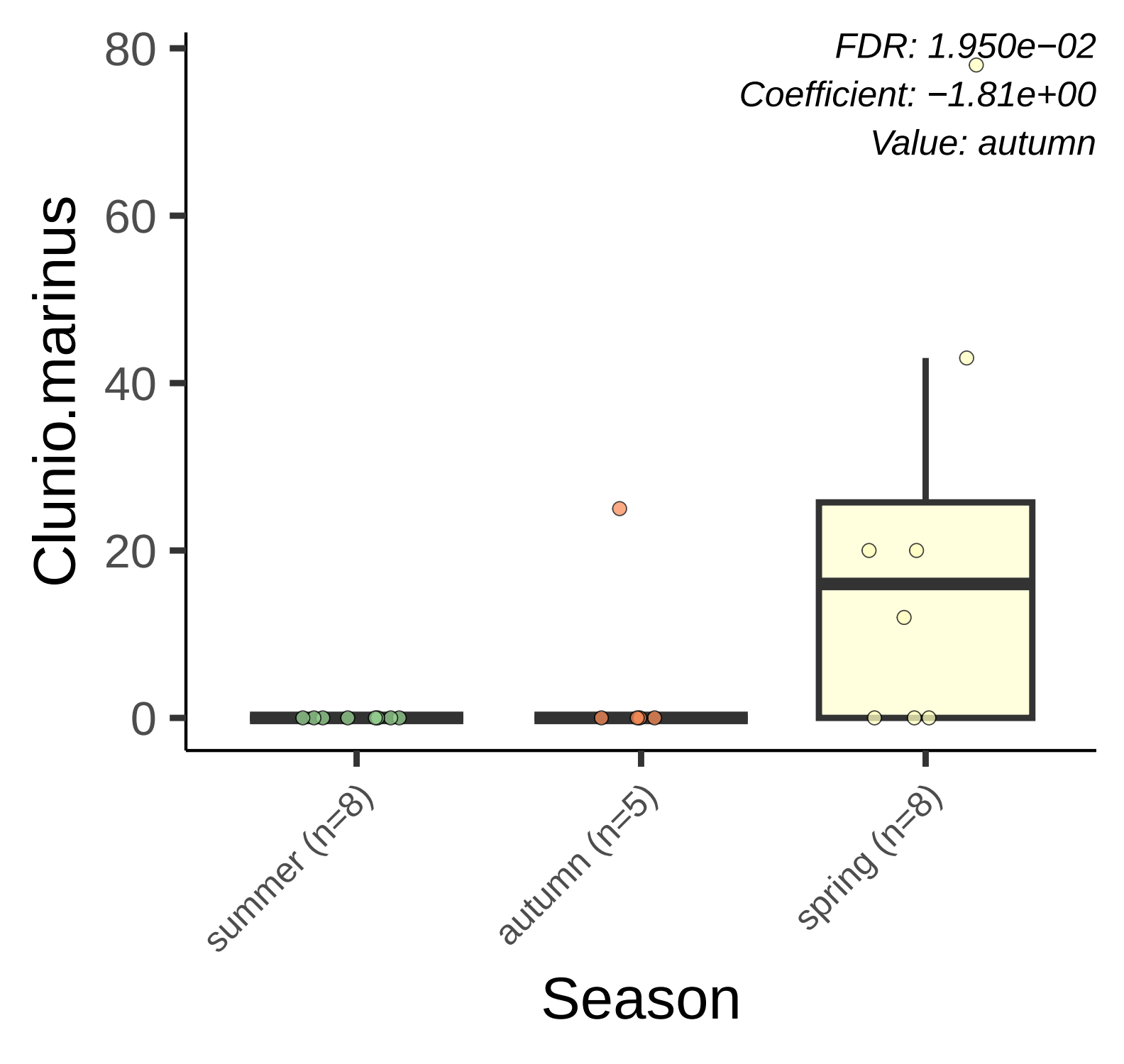

FDR: 1.844e−02
Coefficient: 1.03e+00
Value: autumn
800
600
400
200
Azospirillum.brasilense
summer (n=8)
autumn (n=5)
spring (n=8)
Season

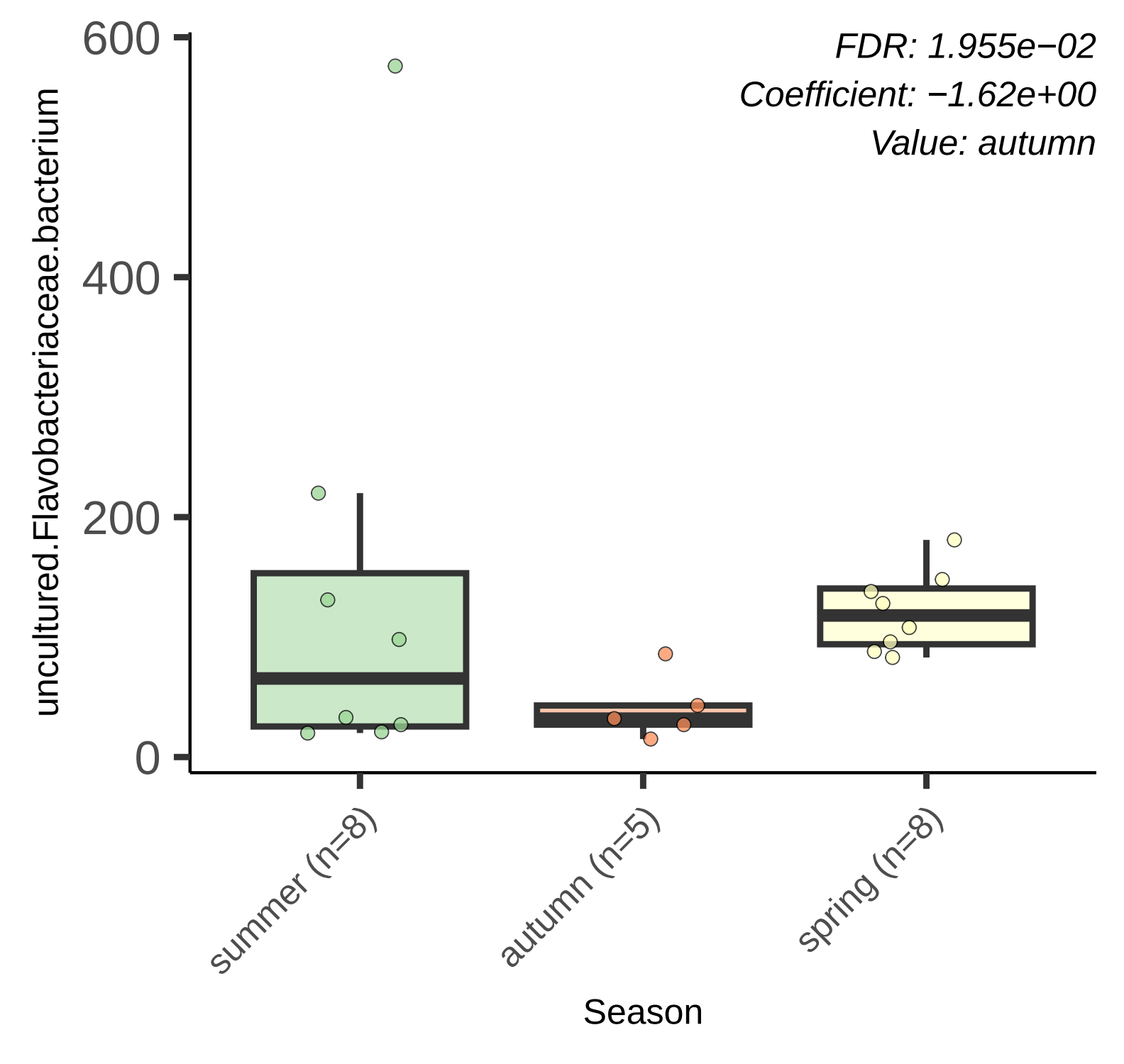

FDR: 1.864e−02
Coefficient: 1.21e+00
Value: autumn
Sphingobium.sp..RAC03
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

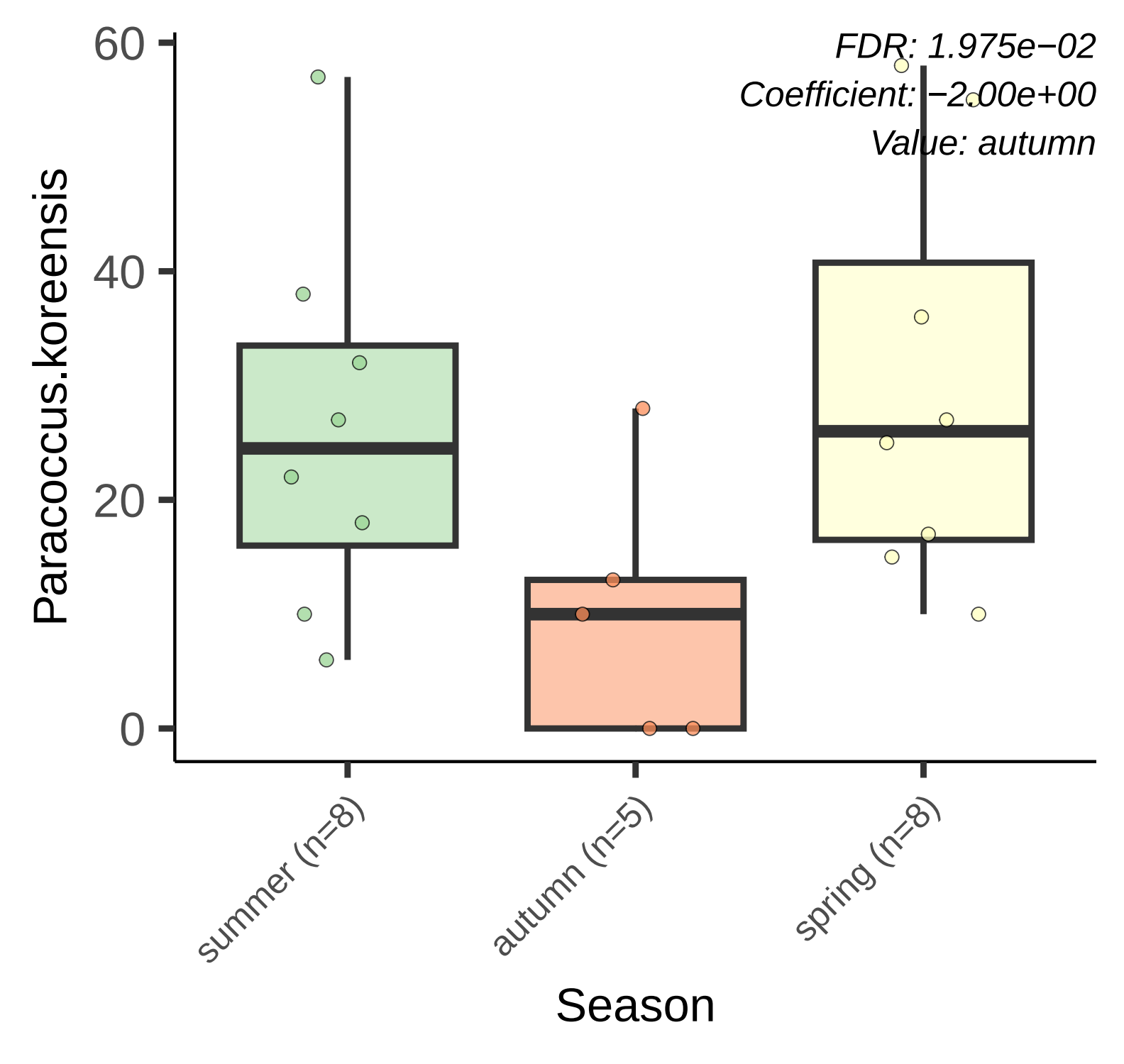

FDR: 1.923e−02
Coefficient: −1.96e+00
Value: autumn
Muricauda.lutaonensis
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

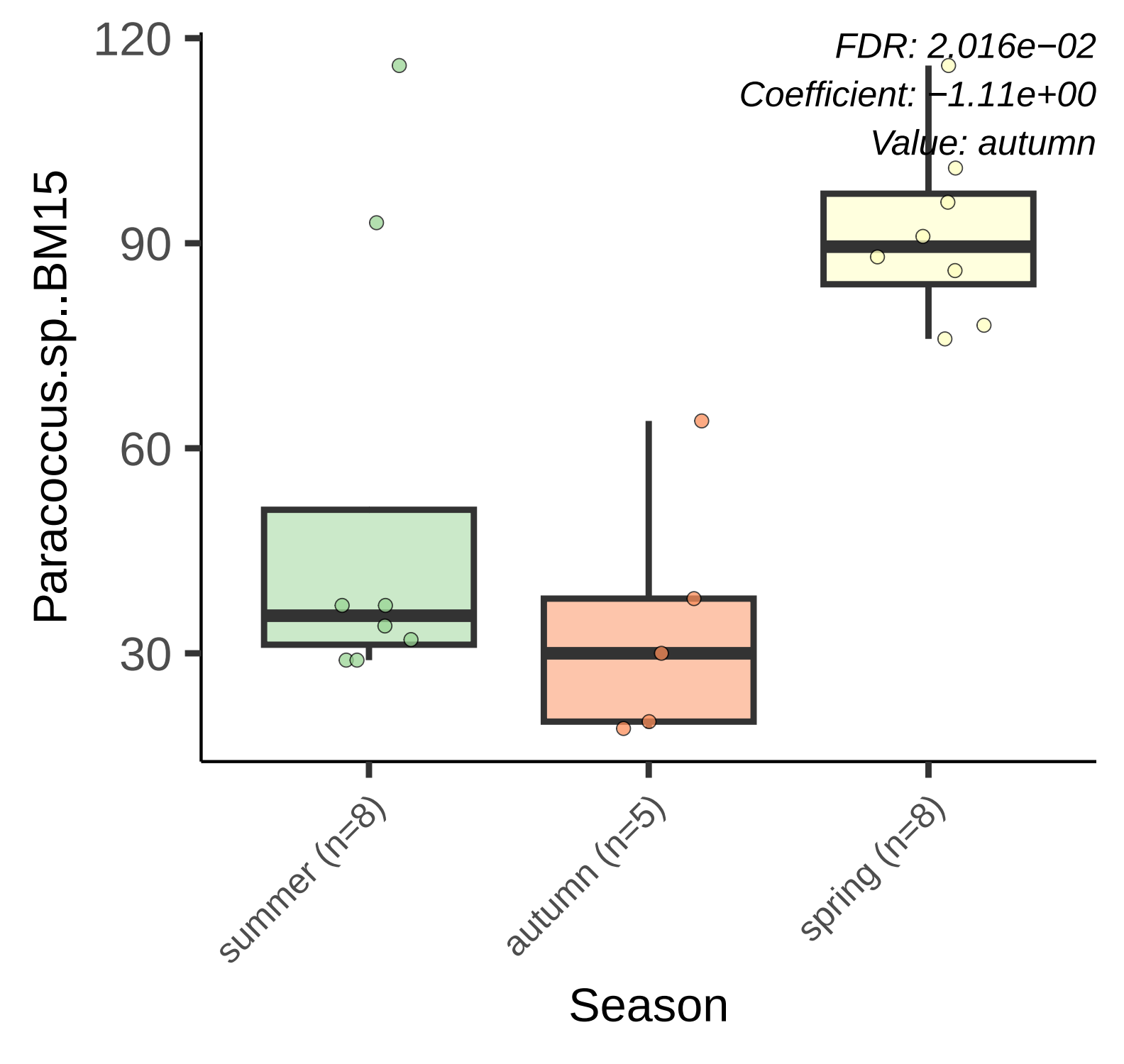

FDR: 1.926e−02
Coefficient: 1.26e+00
Value: autumn
uncultured.Balneola.sp.
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

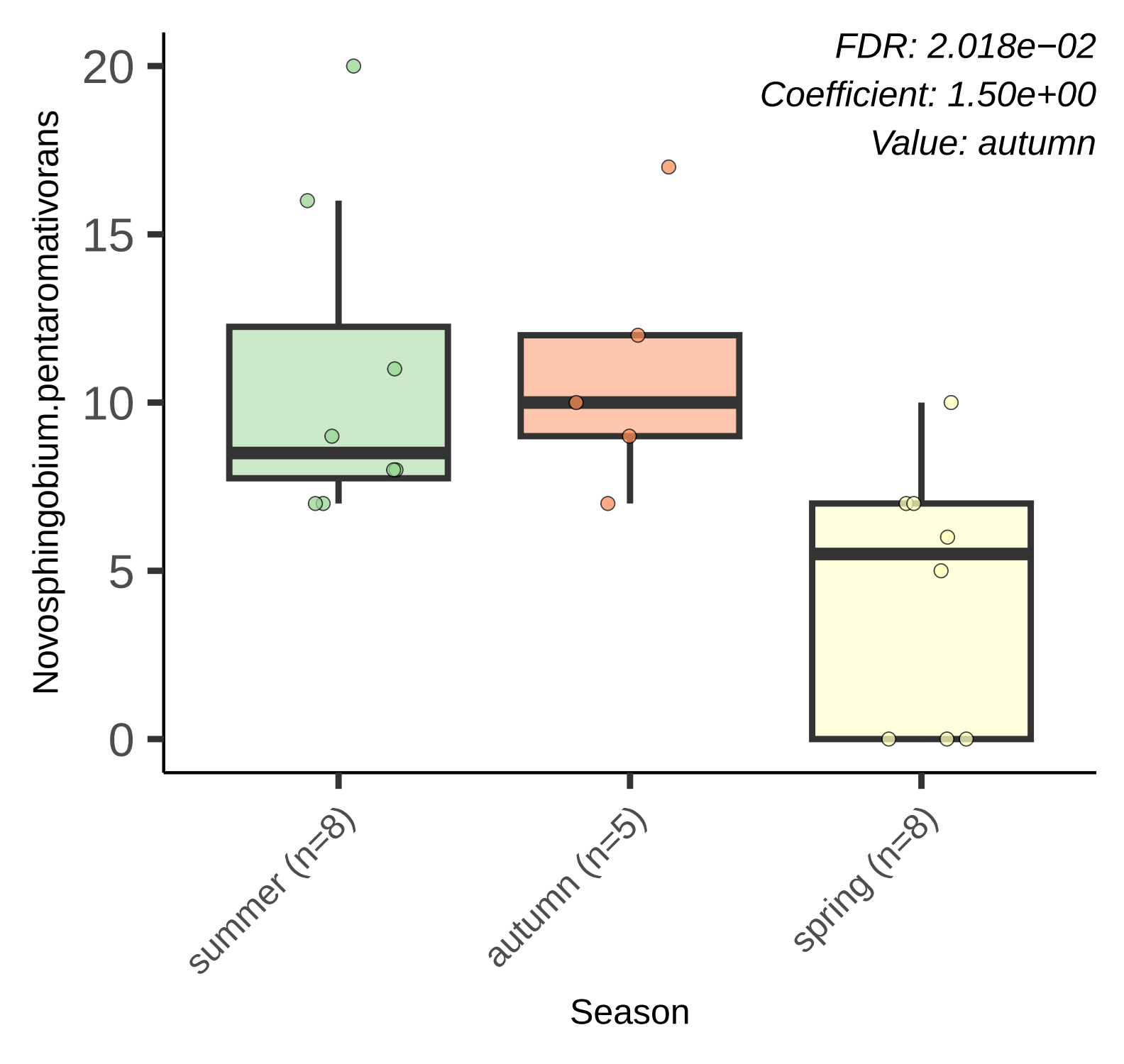

FDR: 1.929e−02
Coefficient: −1.63e+00
Value: autumn
Roseovarius.tolerans
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

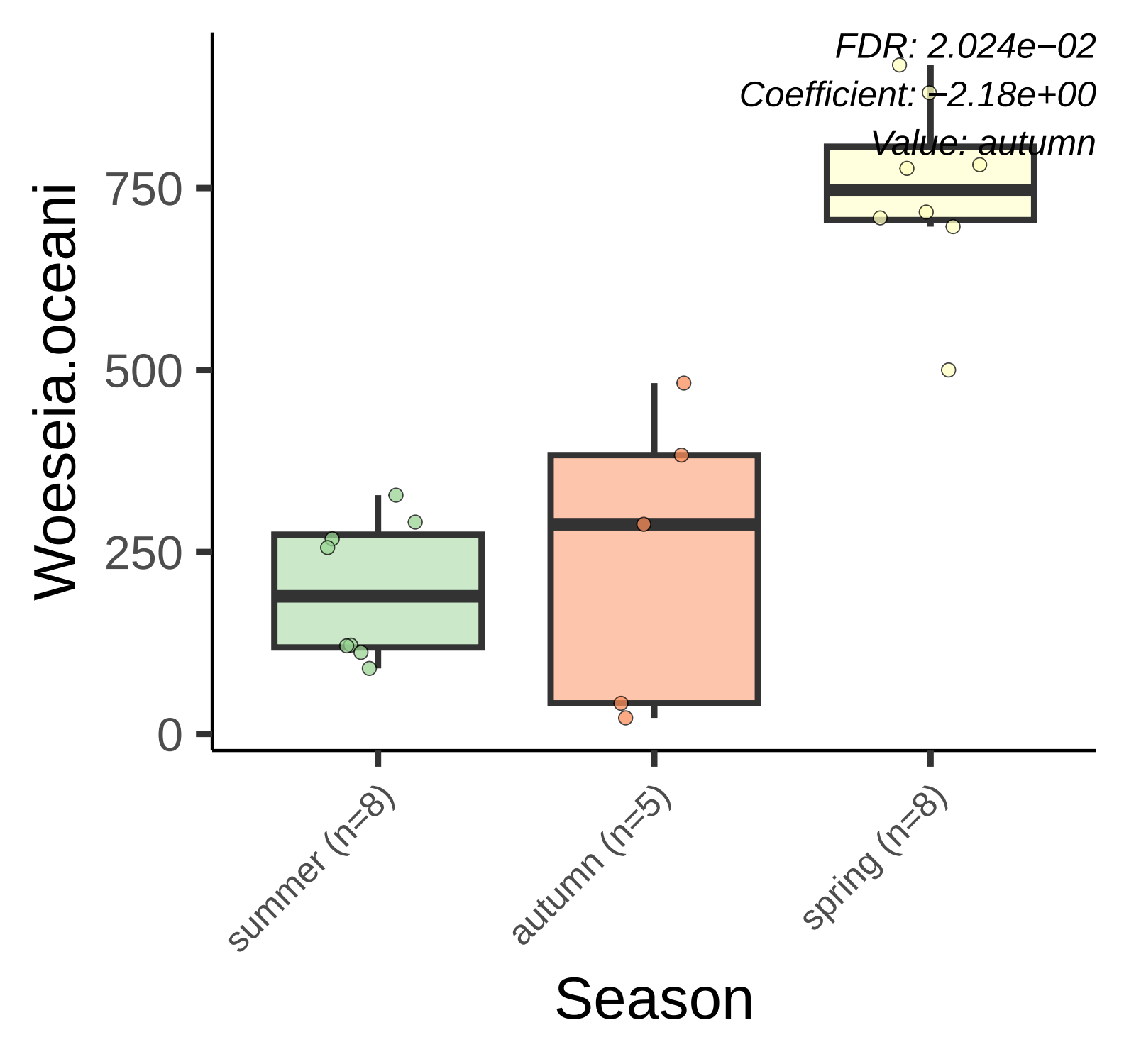

FDR: 1.950e−02
Coefficient: −1.81e+00
Value: autumn
Clunio.marinus
80
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

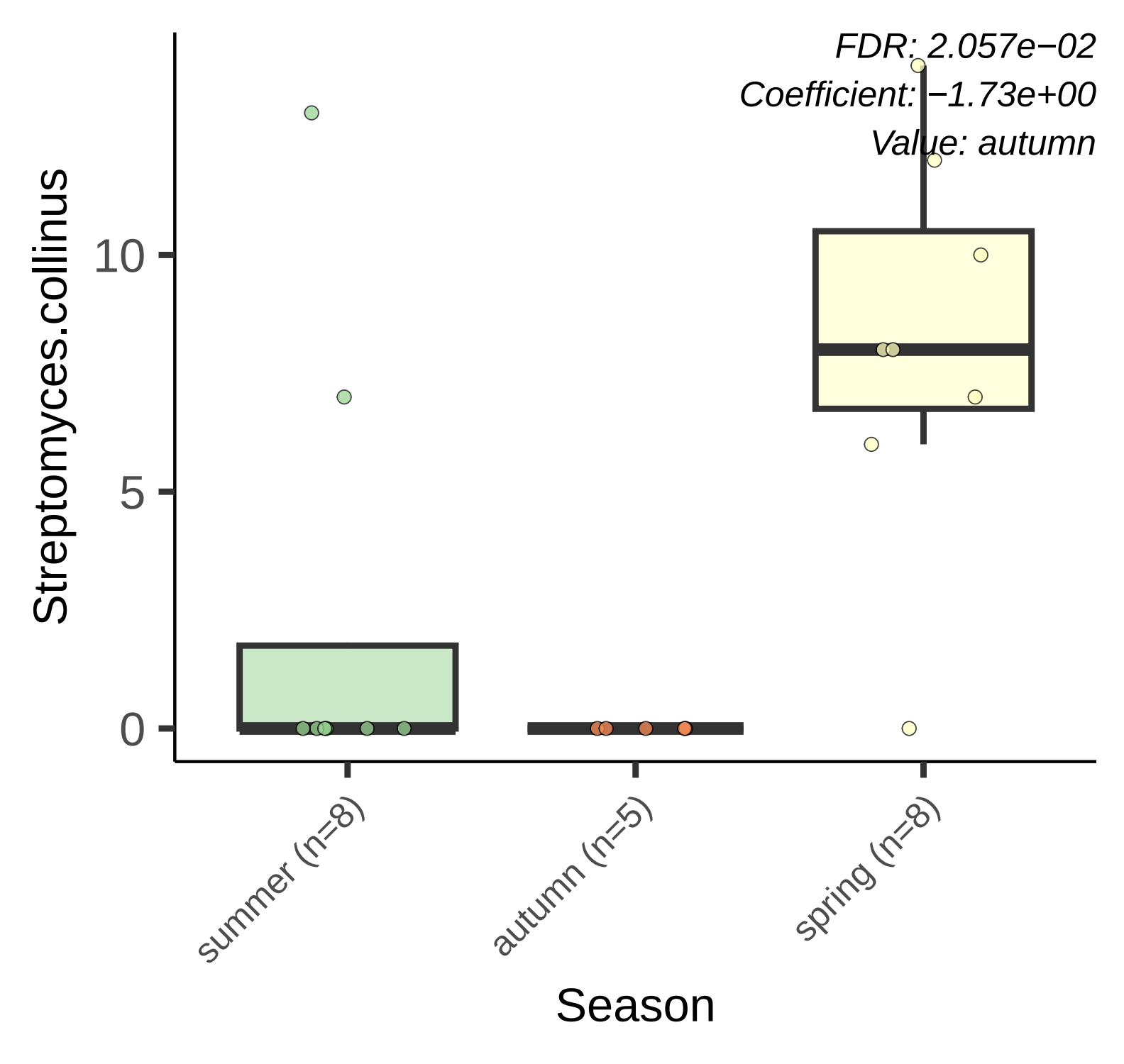

FDR: 1.955e−02
Coefficient: −1.62e+00
Value: autumn
uncultured.Flavobacteriaceae.bacterium
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

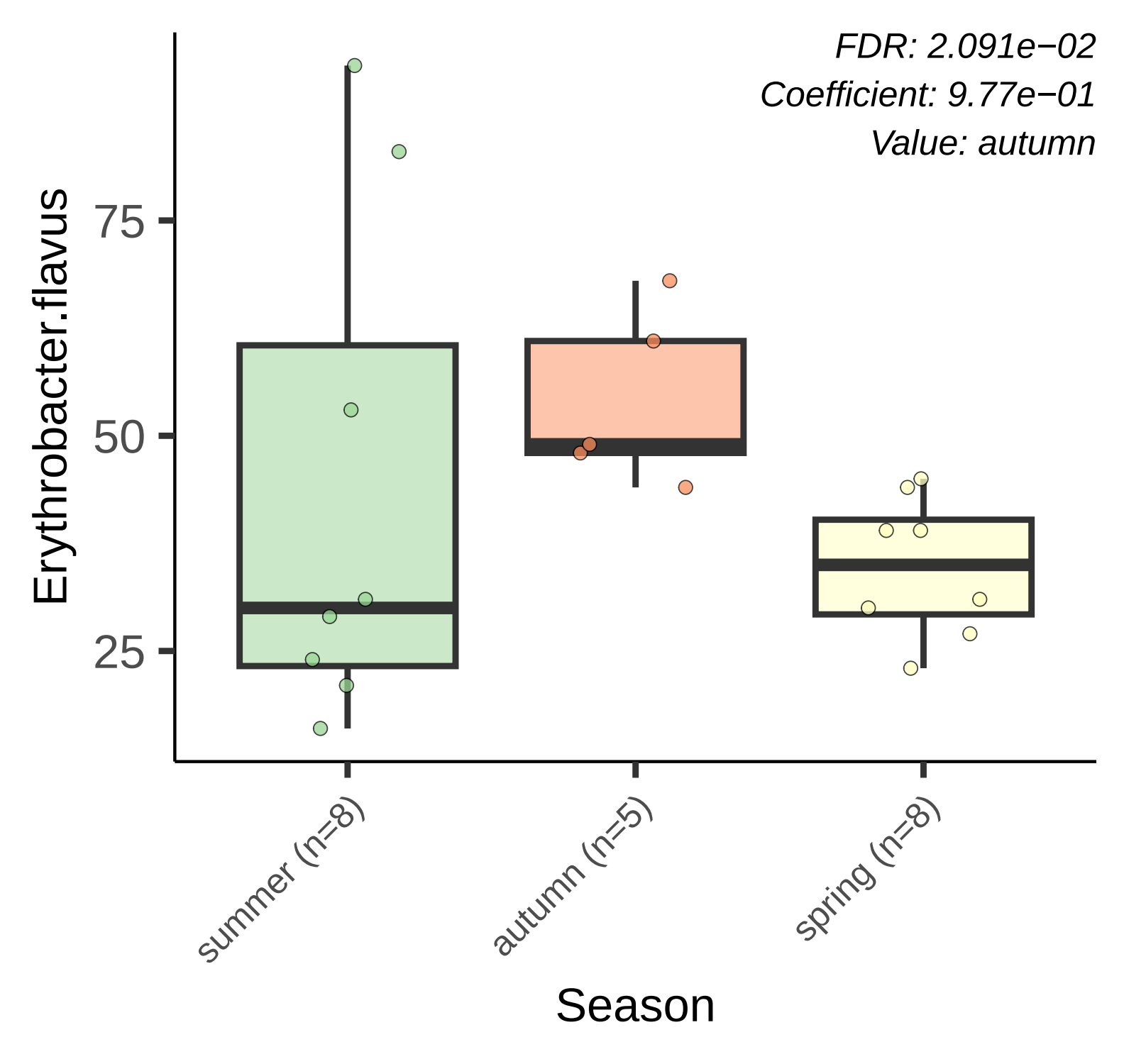

FDR: 1.975e−02
Coefficient: −2.00e+00
Value: autumn
Paracoccus.koreensis
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

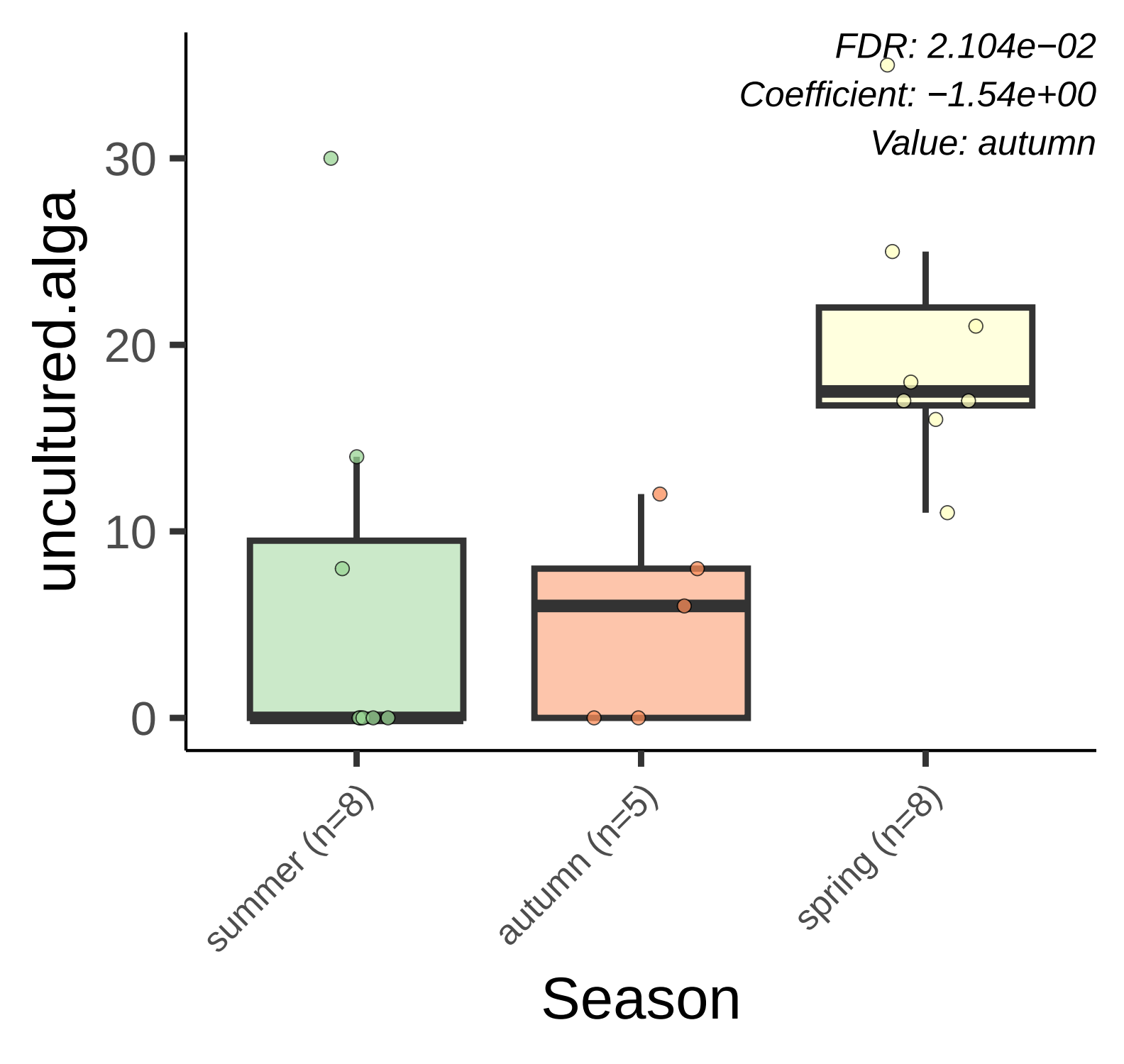

FDR: 2.016e−02
Coefficient: −1.11e+00
Value: autumn
Paracoccus.sp..BM15
120
90
60
30
summer (n=8)
autumn (n=5)
spring (n=8)
Season

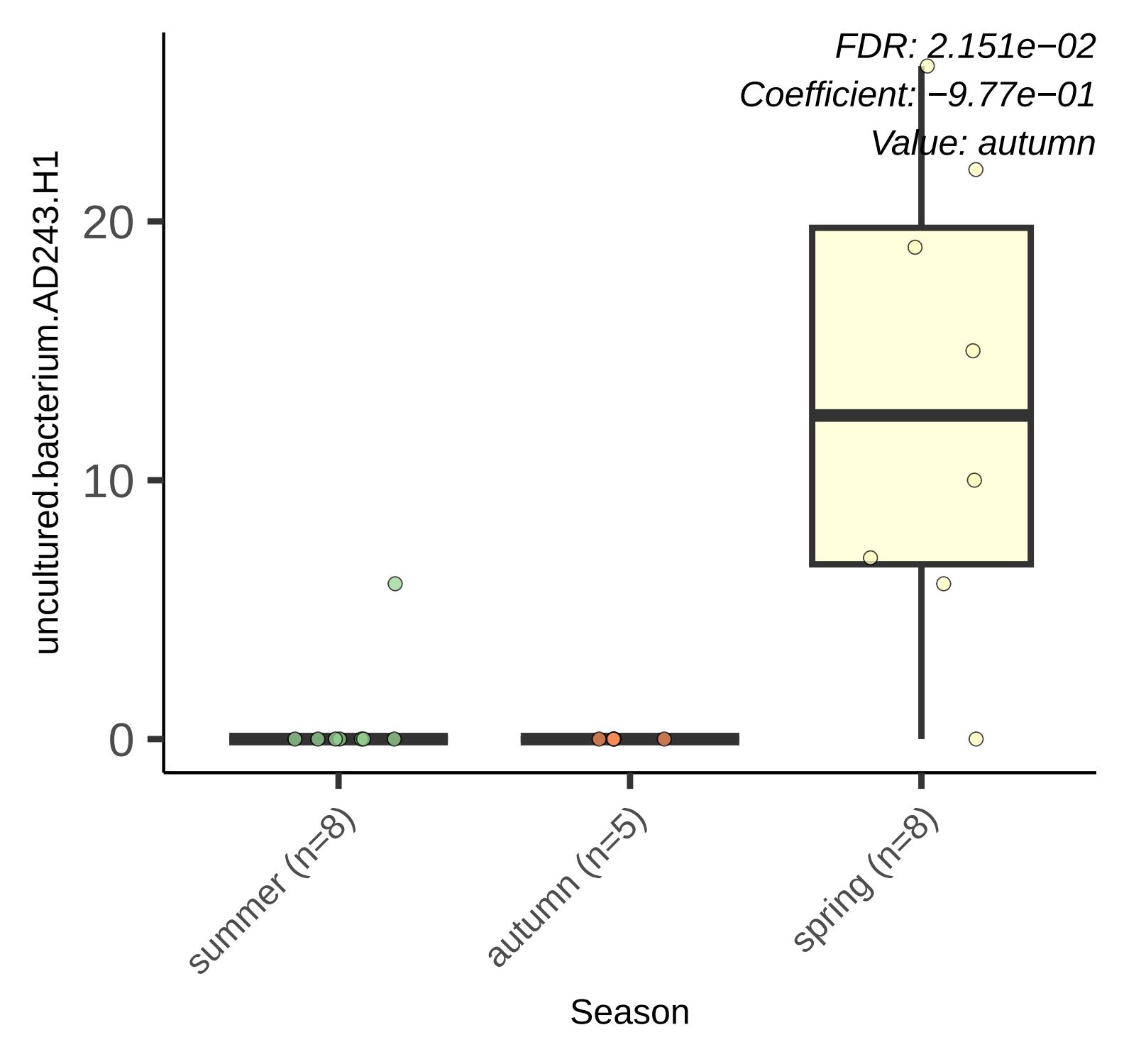

FDR: 2.018e−02
Coefficient: 1.50e+00
Value: autumn
Novosphingobium.pentaromativorans
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

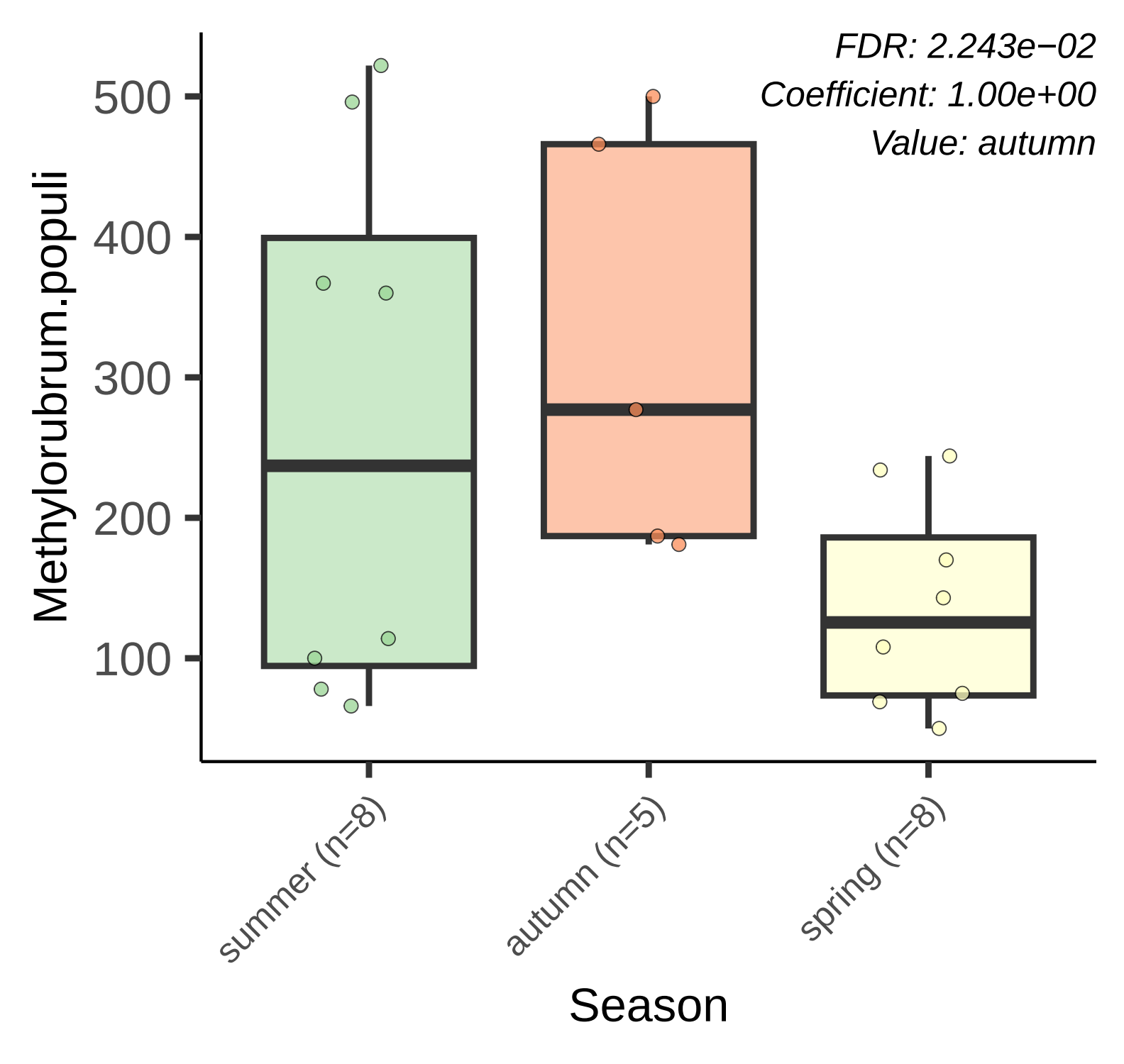

FDR: 2.024e−02
Coefficient: −2.18e+00
Value: autumn
Woeseia.oceani
750
500
250
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

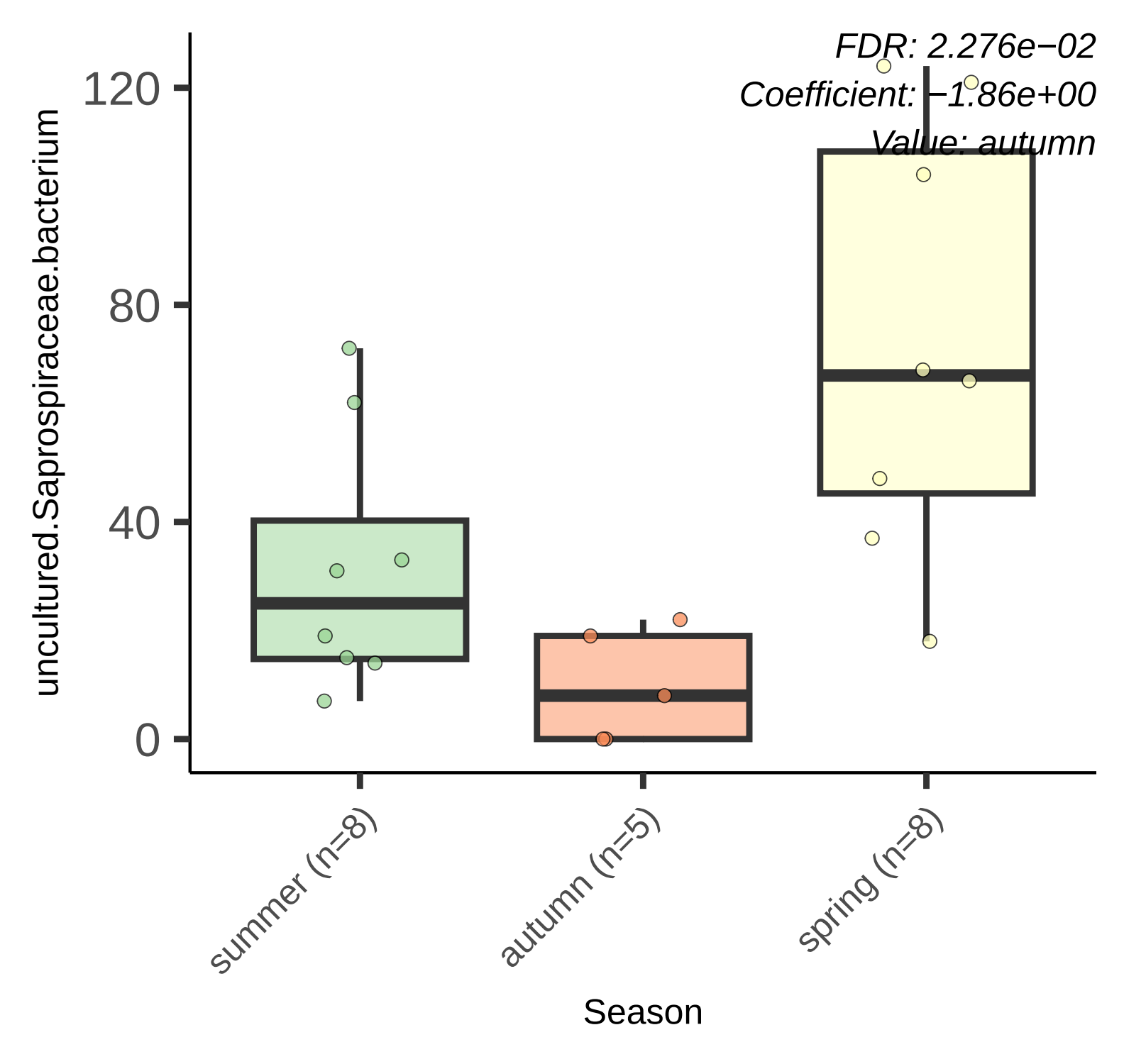

FDR: 2.057e−02
Coefficient: −1.73e+00
Value: autumn
Streptomyces.collinus
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

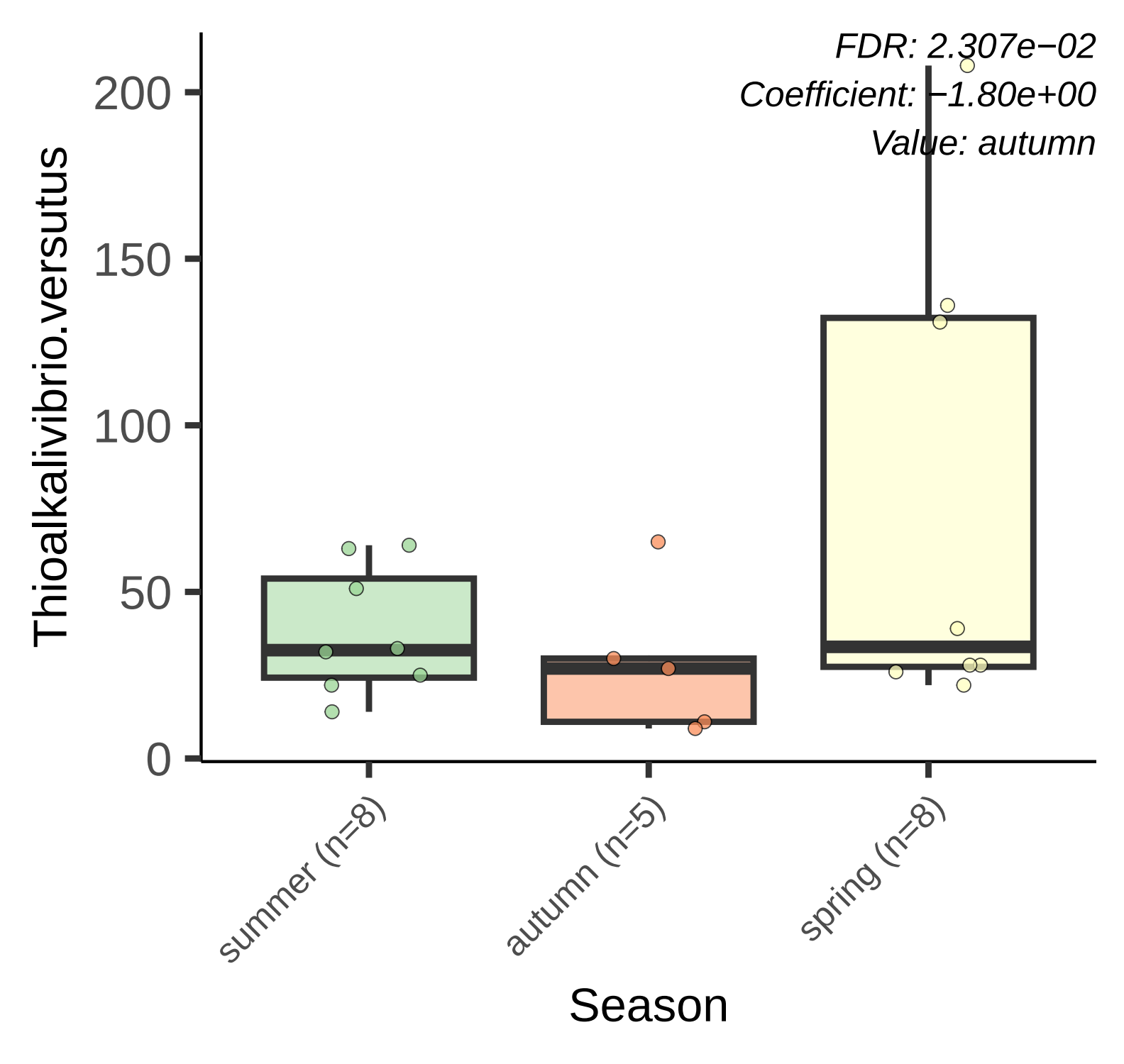

FDR: 2.091e−02
Coefficient: 9.77e−01
Value: autumn
Erythrobacter.flavus
75
50
25
summer (n=8)
autumn (n=5)
spring (n=8)
Season

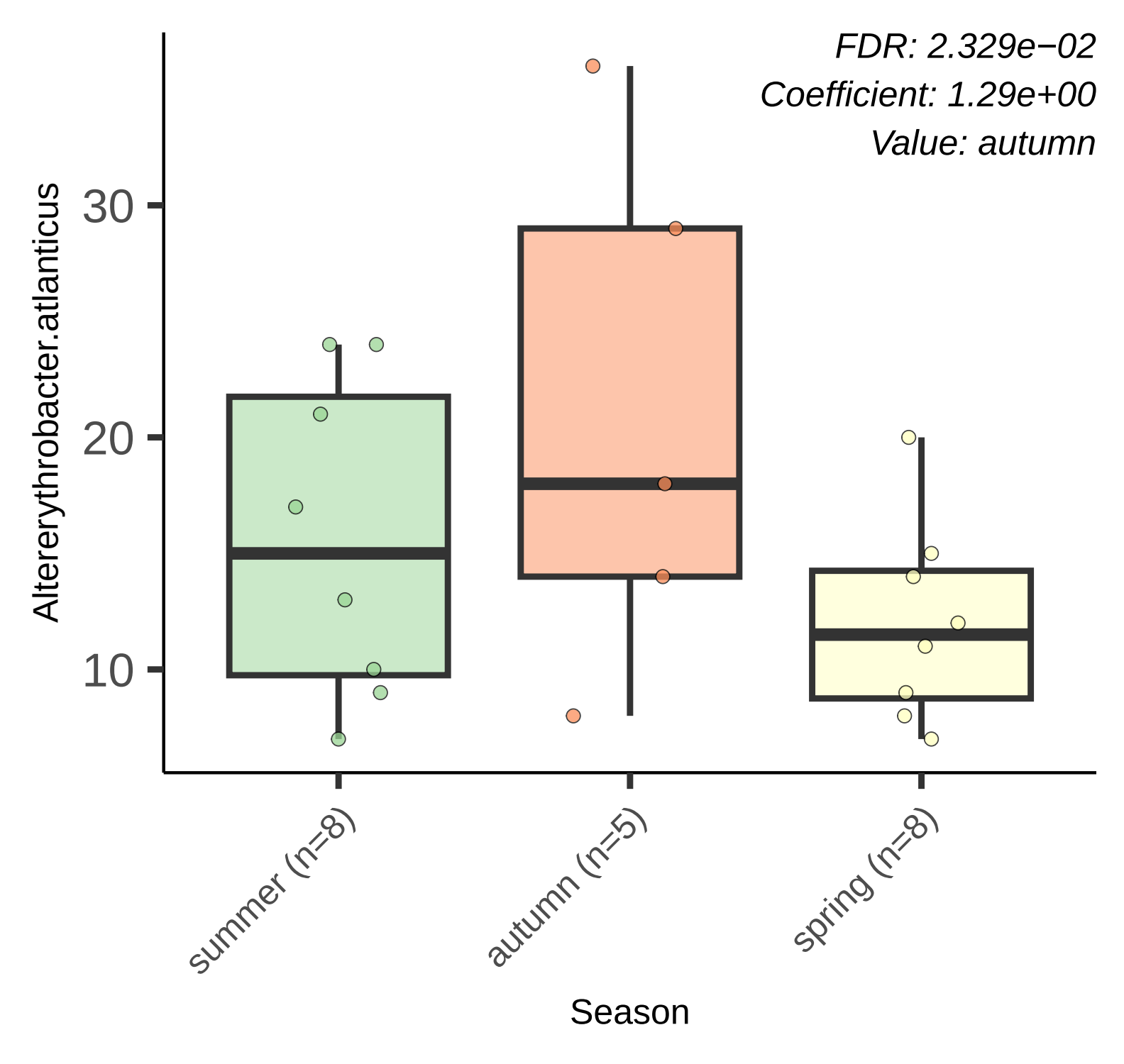

FDR: 2.104e−02
Coefficient: −1.54e+00
Value: autumn
uncultured.alga
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

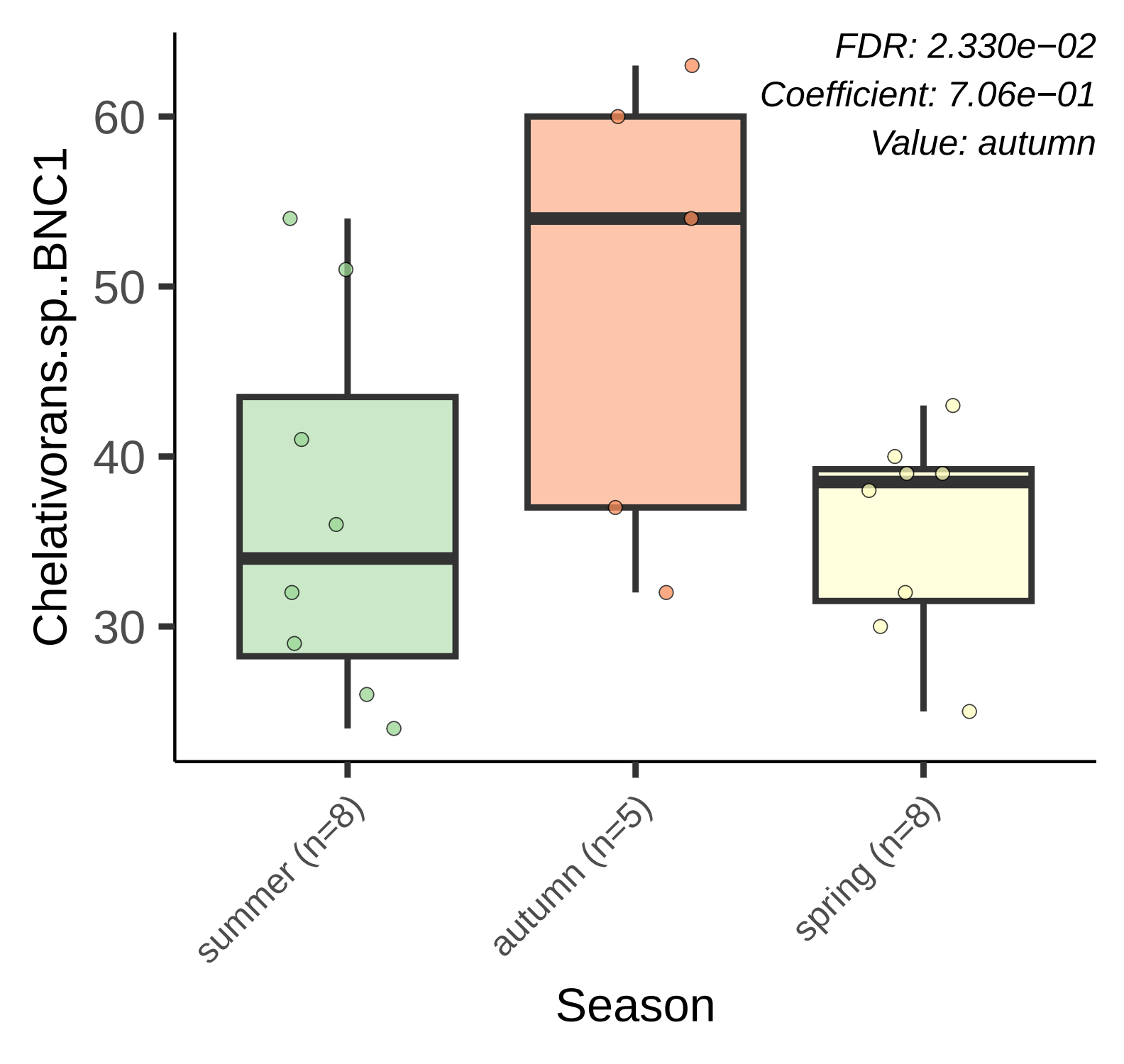

FDR: 2.151e−02
Coefficient: −9.77e−01
Value: autumn
uncultured.bacterium.AD243.H1
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

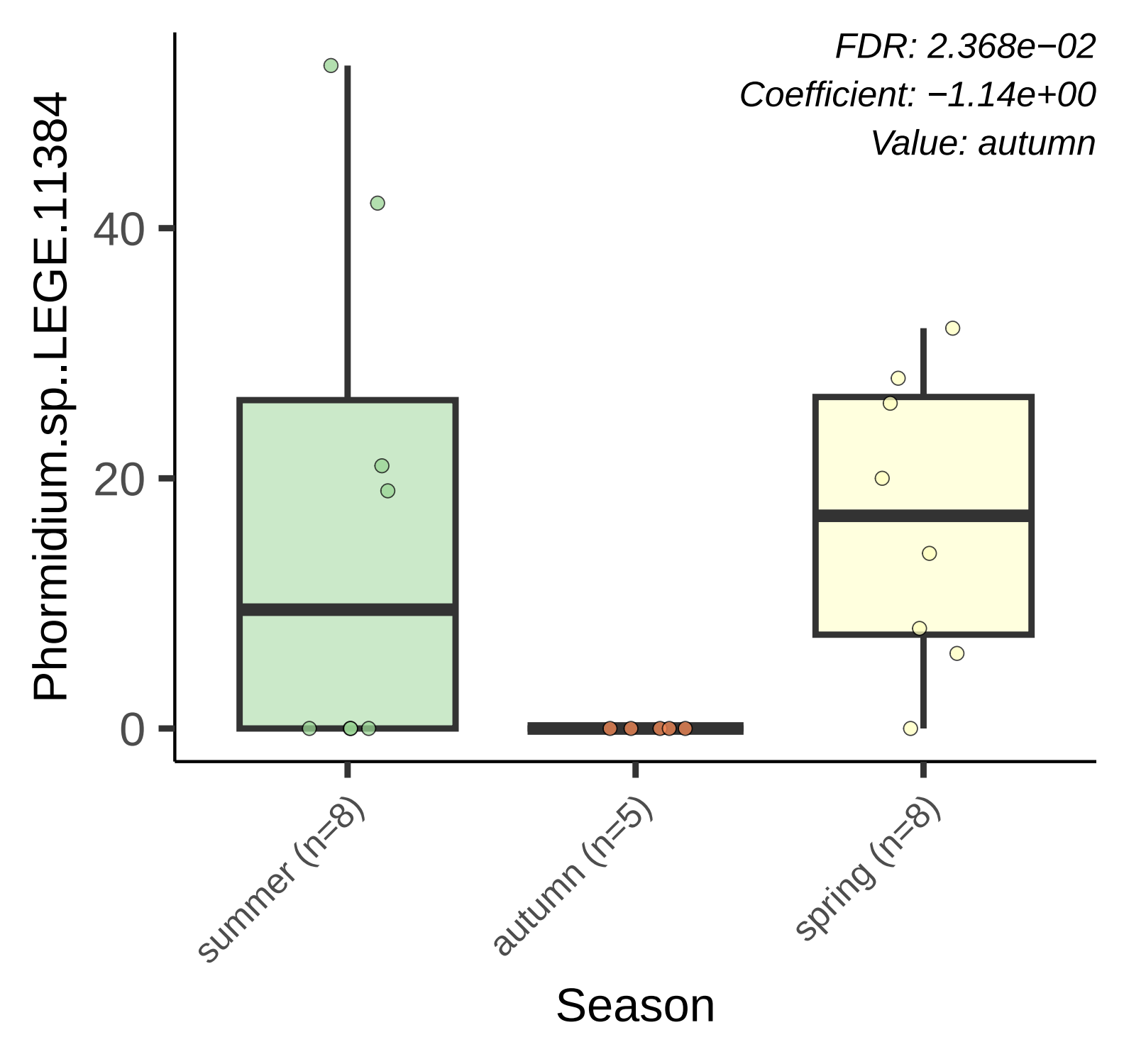

FDR: 2.243e−02
Coefficient: 1.00e+00
Value: autumn
Methylorubrum.populi
500
400
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

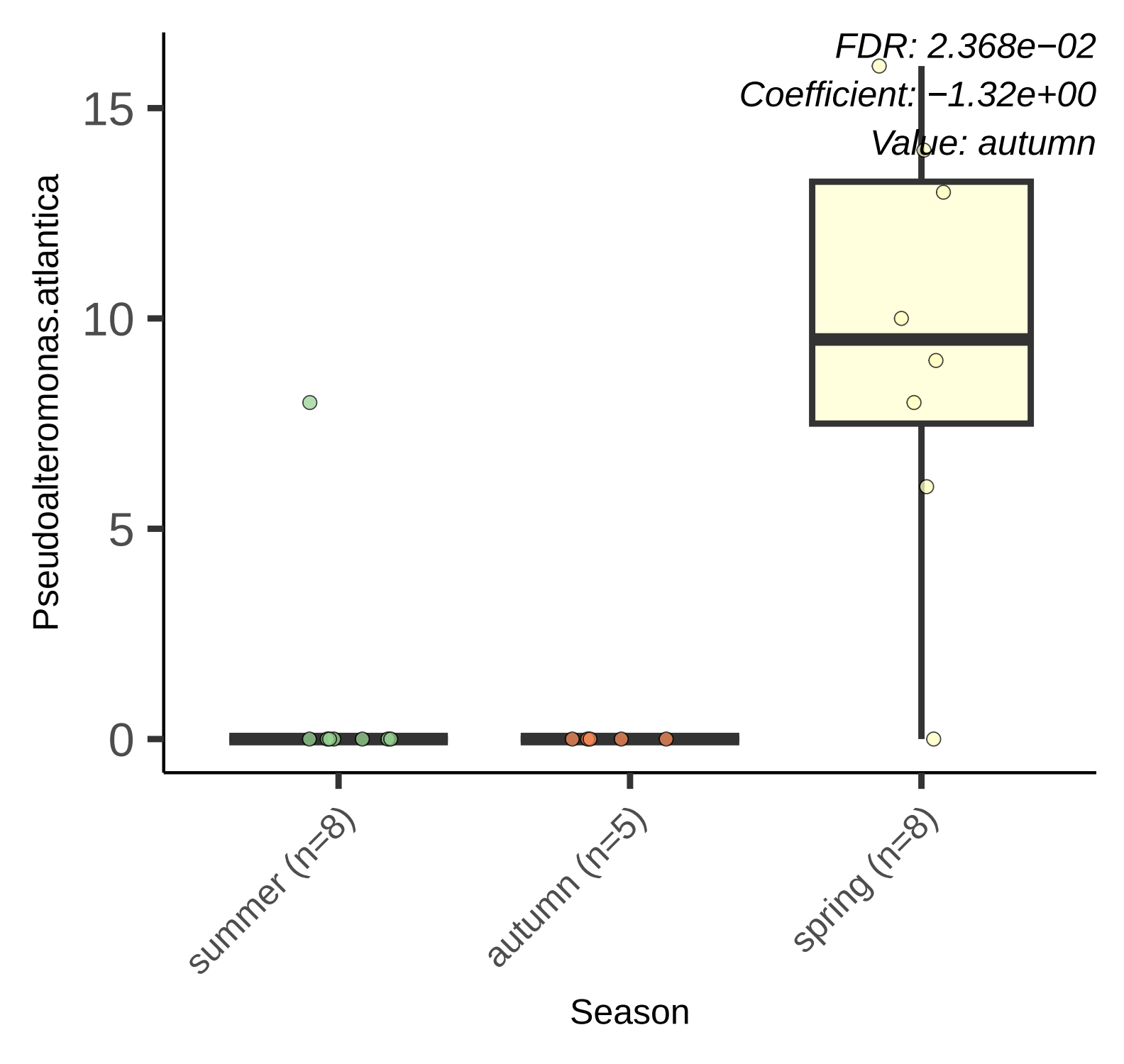

FDR: 2.276e−02
Coefficient: −1.86e+00
Value: autumn
uncultured.Saprospiraceae.bacterium
120
80
40
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

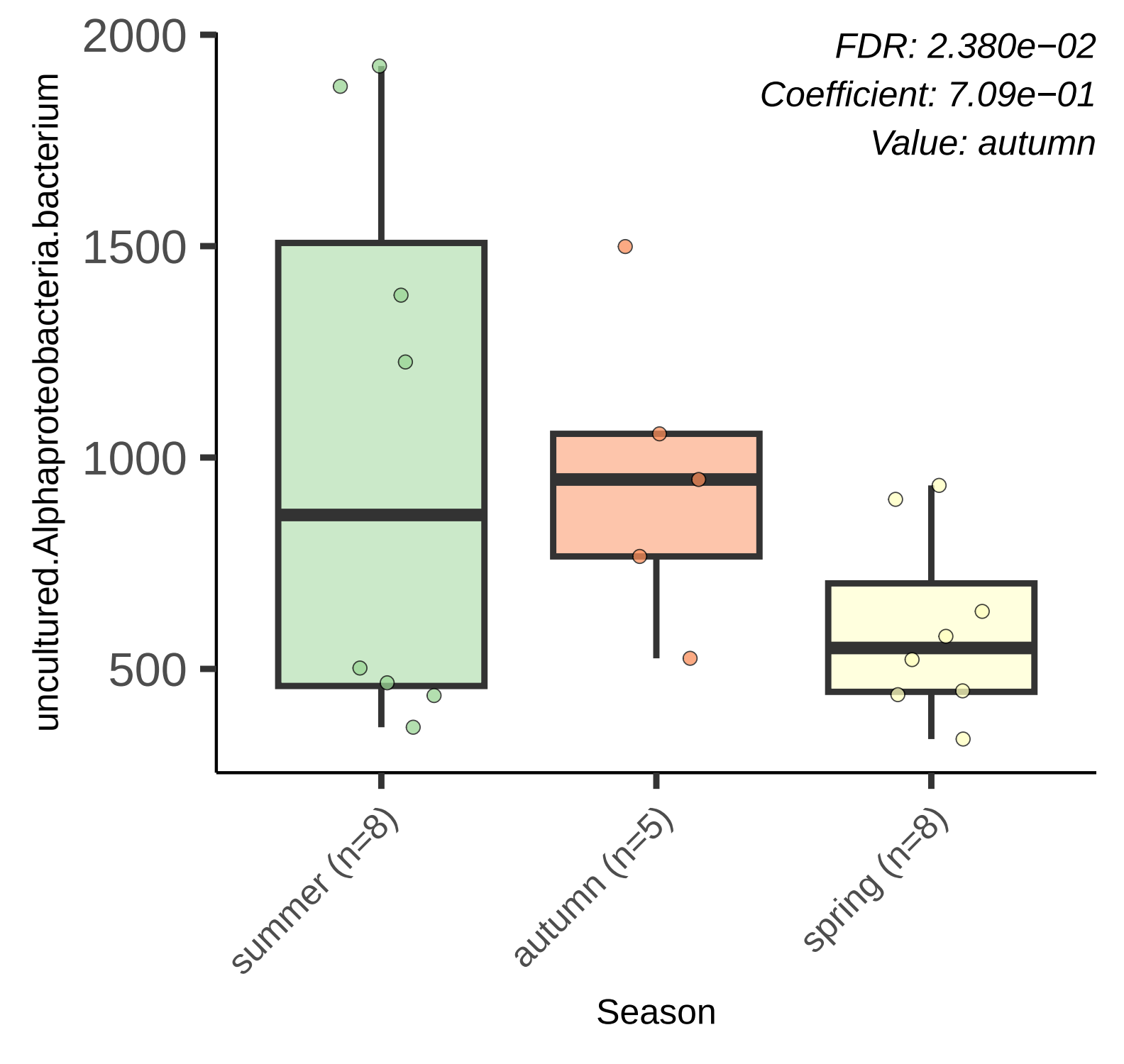

FDR: 2.307e−02
Coefficient: −1.80e+00
Value: autumn
Thioalkalivibrio.versutus
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

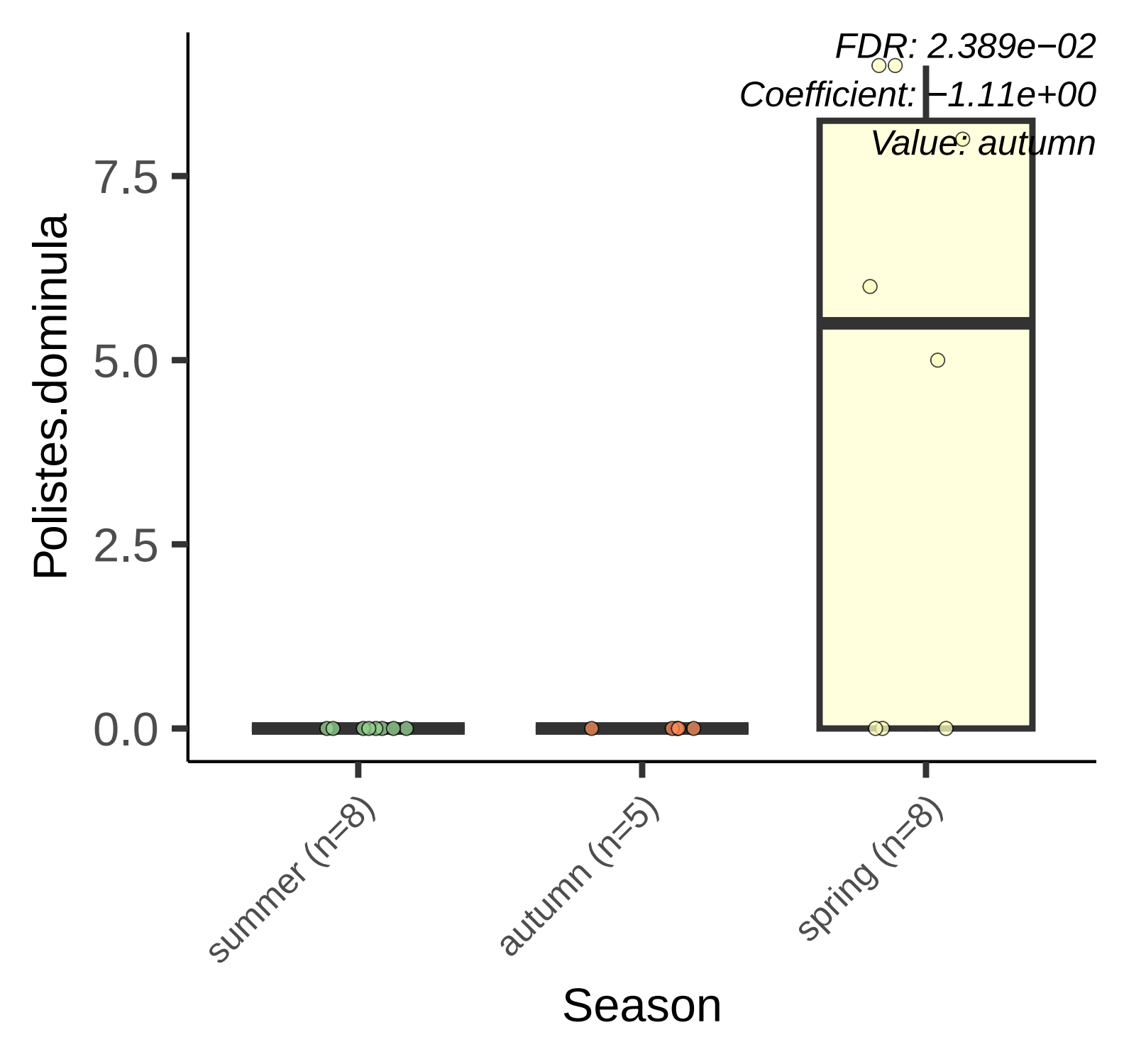

FDR: 2.329e−02
Coefficient: 1.29e+00
Value: autumn
Altererythrobacter.atlanticus
30
20
10
summer (n=8)
autumn (n=5)
spring (n=8)
Season

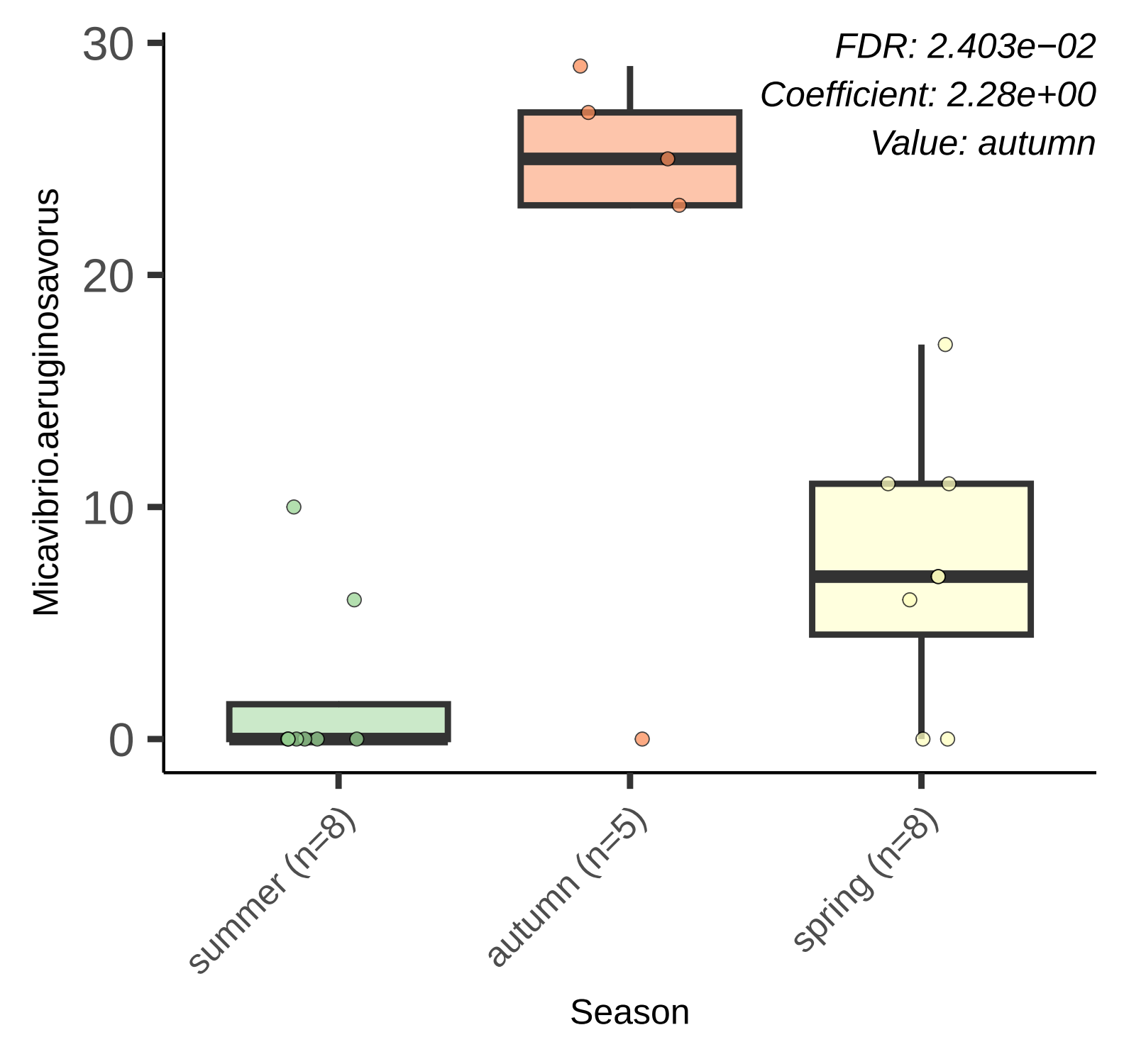

FDR: 2.330e−02
Coefficient: 7.06e−01
Value: autumn
Chelativorans.sp..BNC1
60
50
40
30
summer (n=8)
autumn (n=5)
spring (n=8)
Season

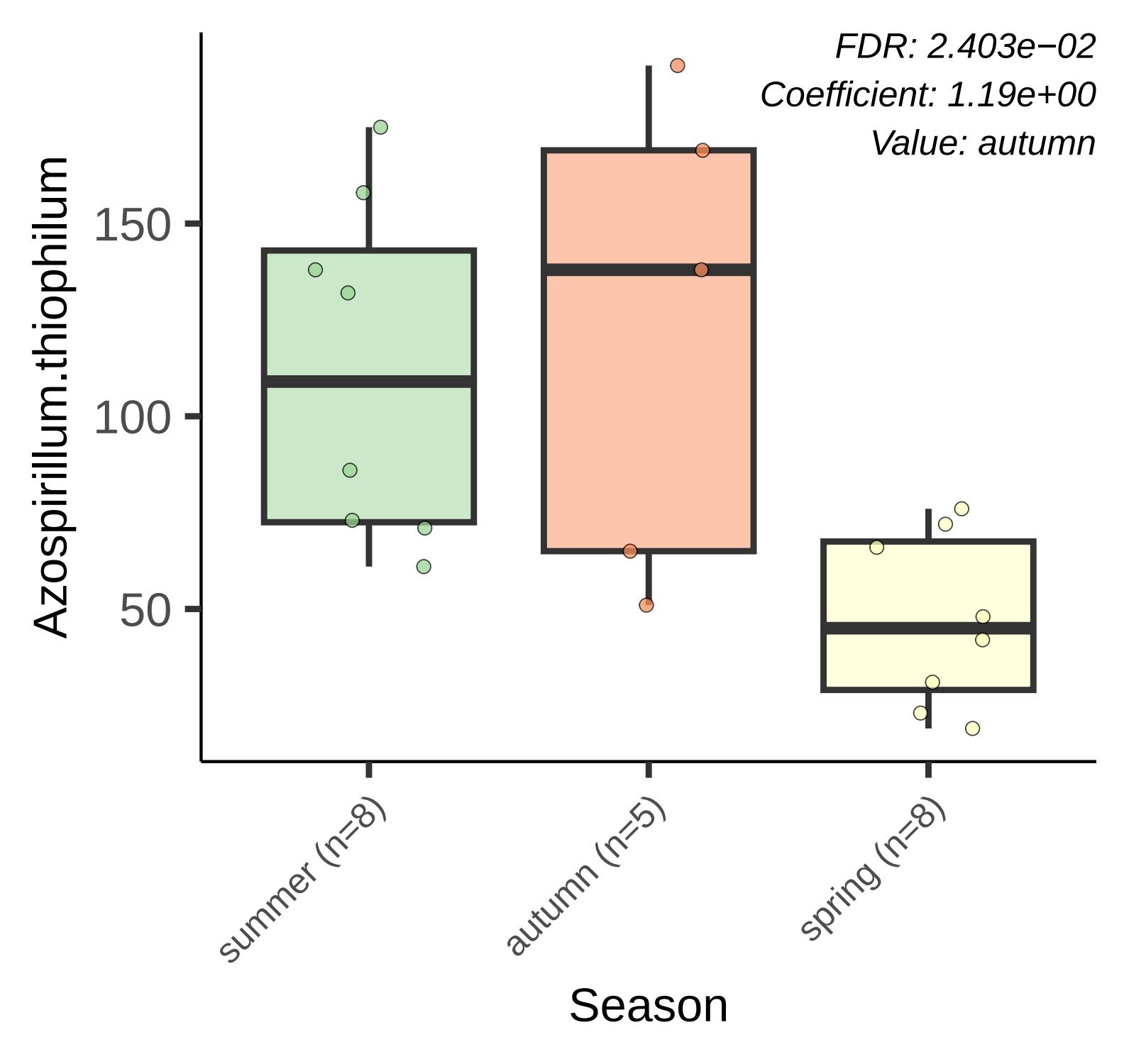

FDR: 2.368e−02
Coefficient: −1.14e+00
Value: autumn
Phormidium.sp..LEGE.11384
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

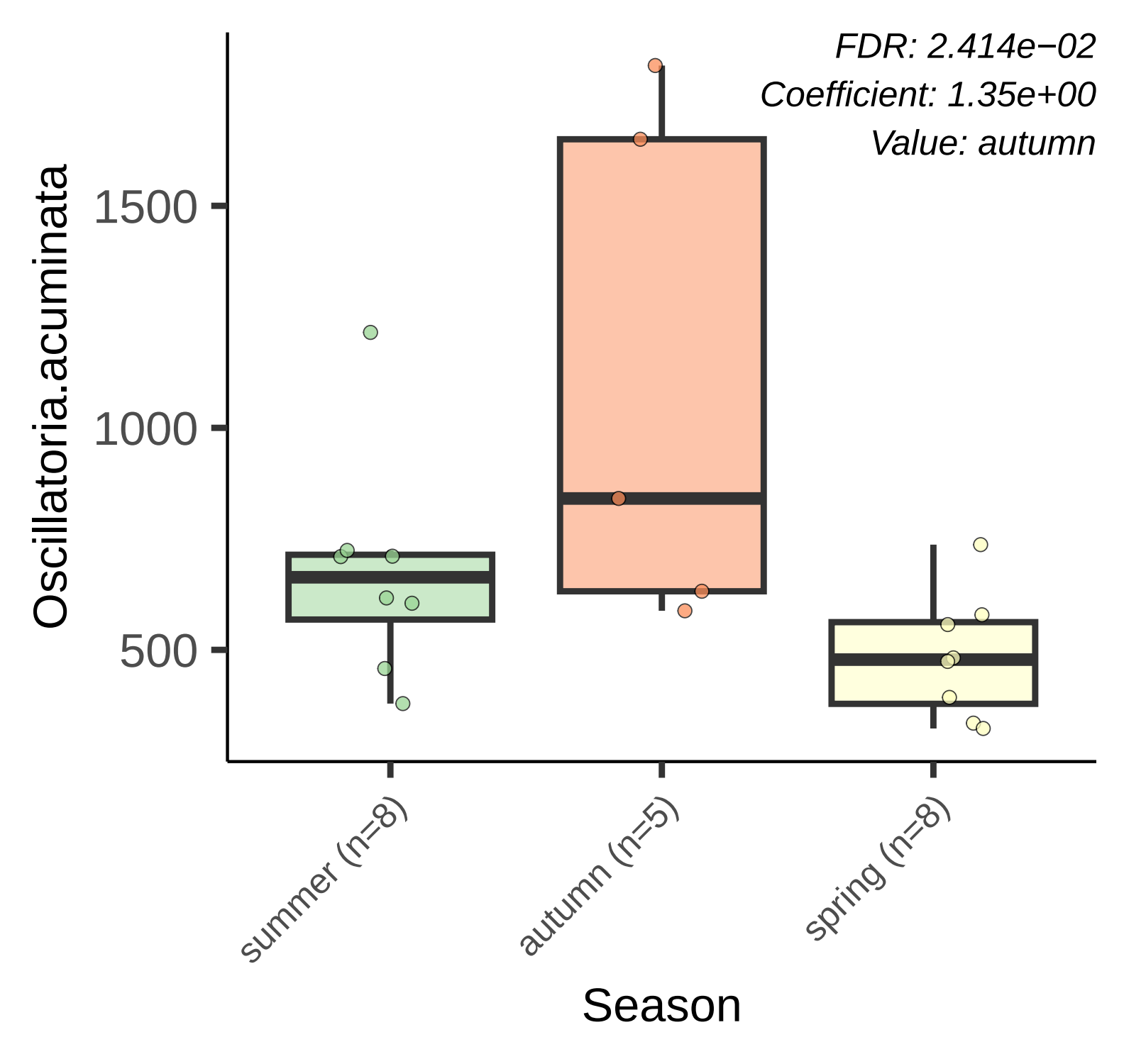

FDR: 2.368e−02
Coefficient: −1.32e+00
Value: autumn
Pseudoalteromonas.atlantica
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

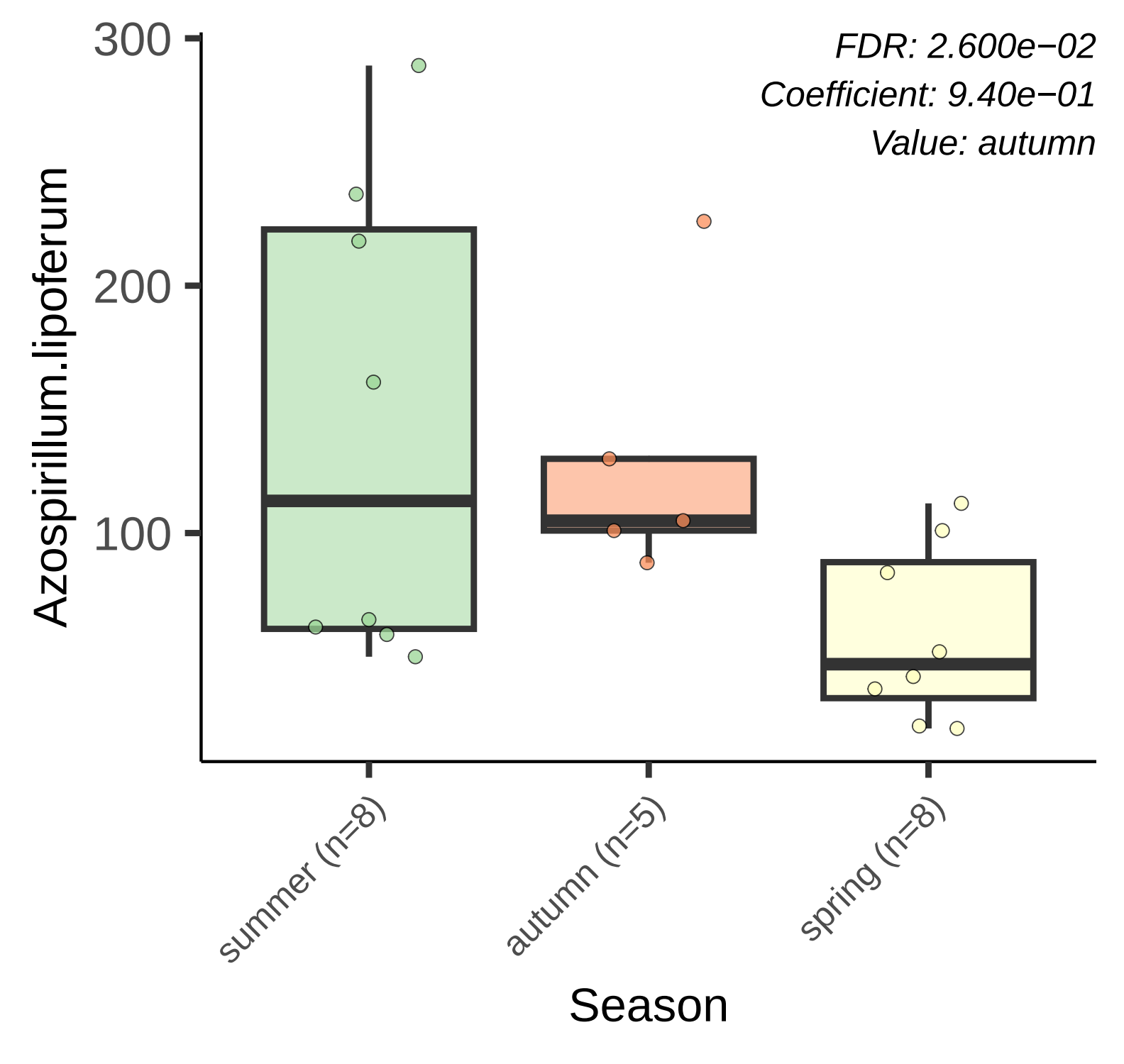

FDR: 2.380e−02
Coefficient: 7.09e−01
Value: autumn
uncultured.Alphaproteobacteria.bacterium
2000
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

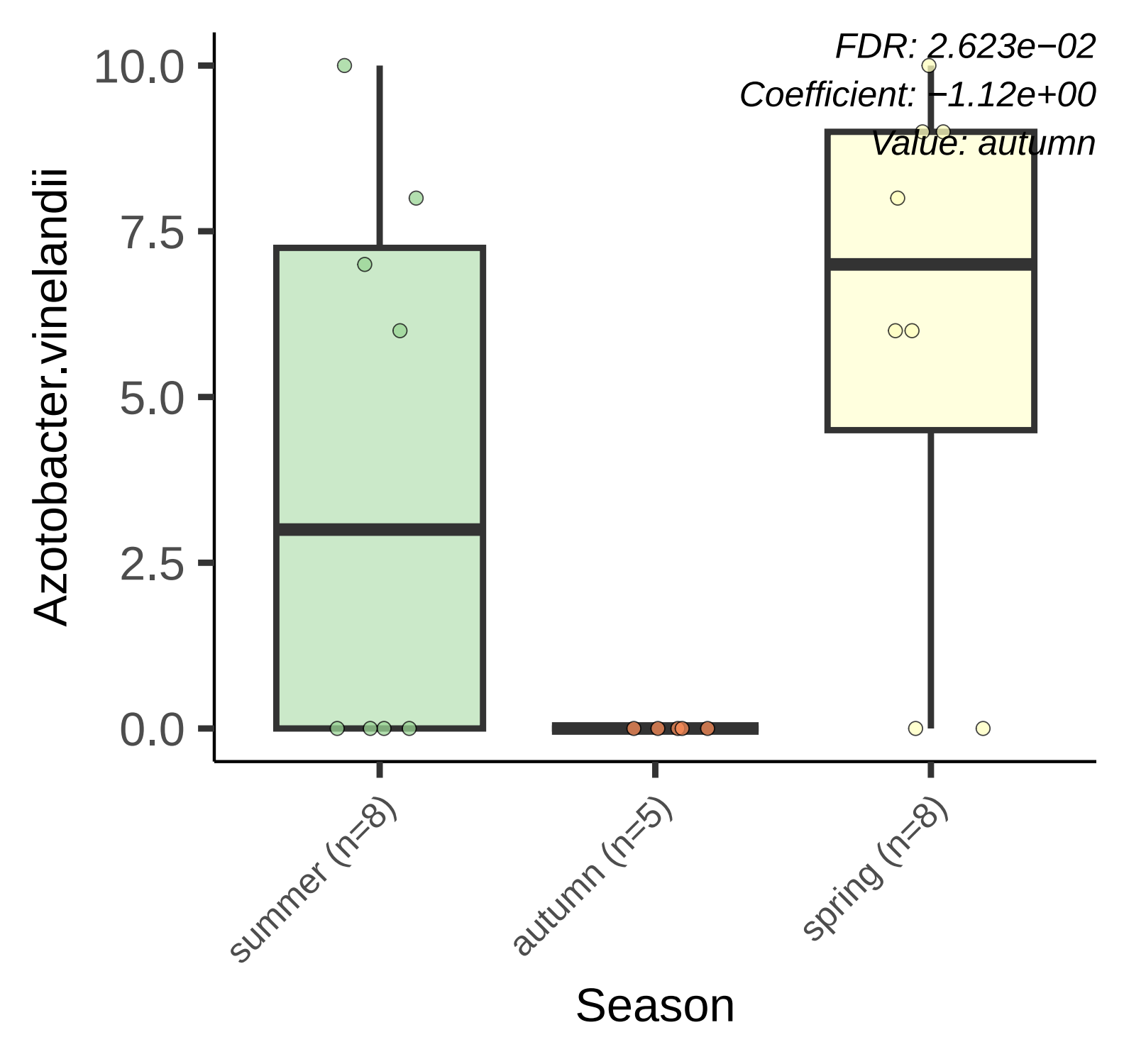

FDR: 2.389e−02
Coefficient: −1.11e+00
Value: autumn
Polistes.dominula
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

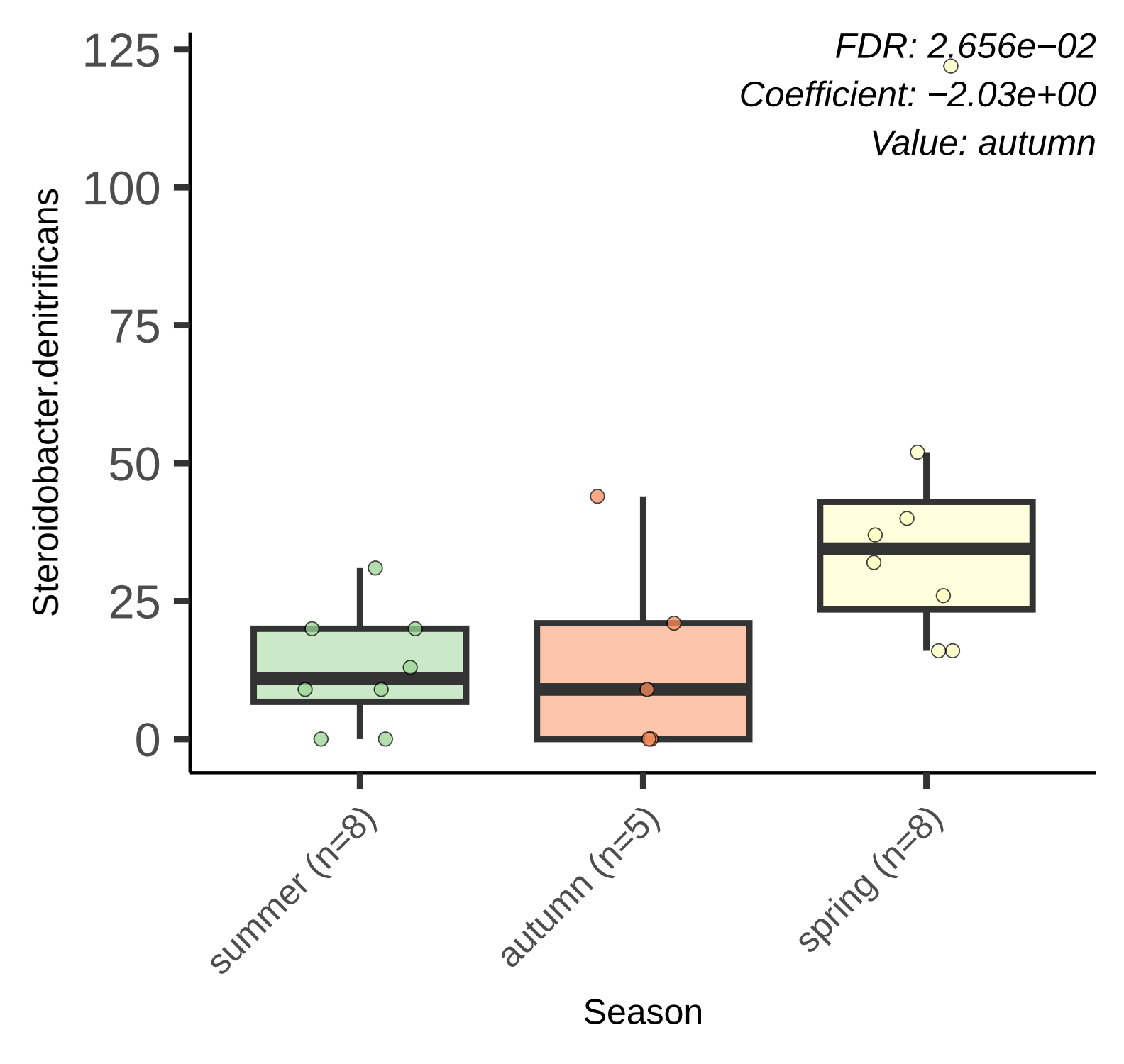

FDR: 2.403e−02
Coefficient: 2.28e+00
Value: autumn
Micavibrio.aeruginosavorus
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

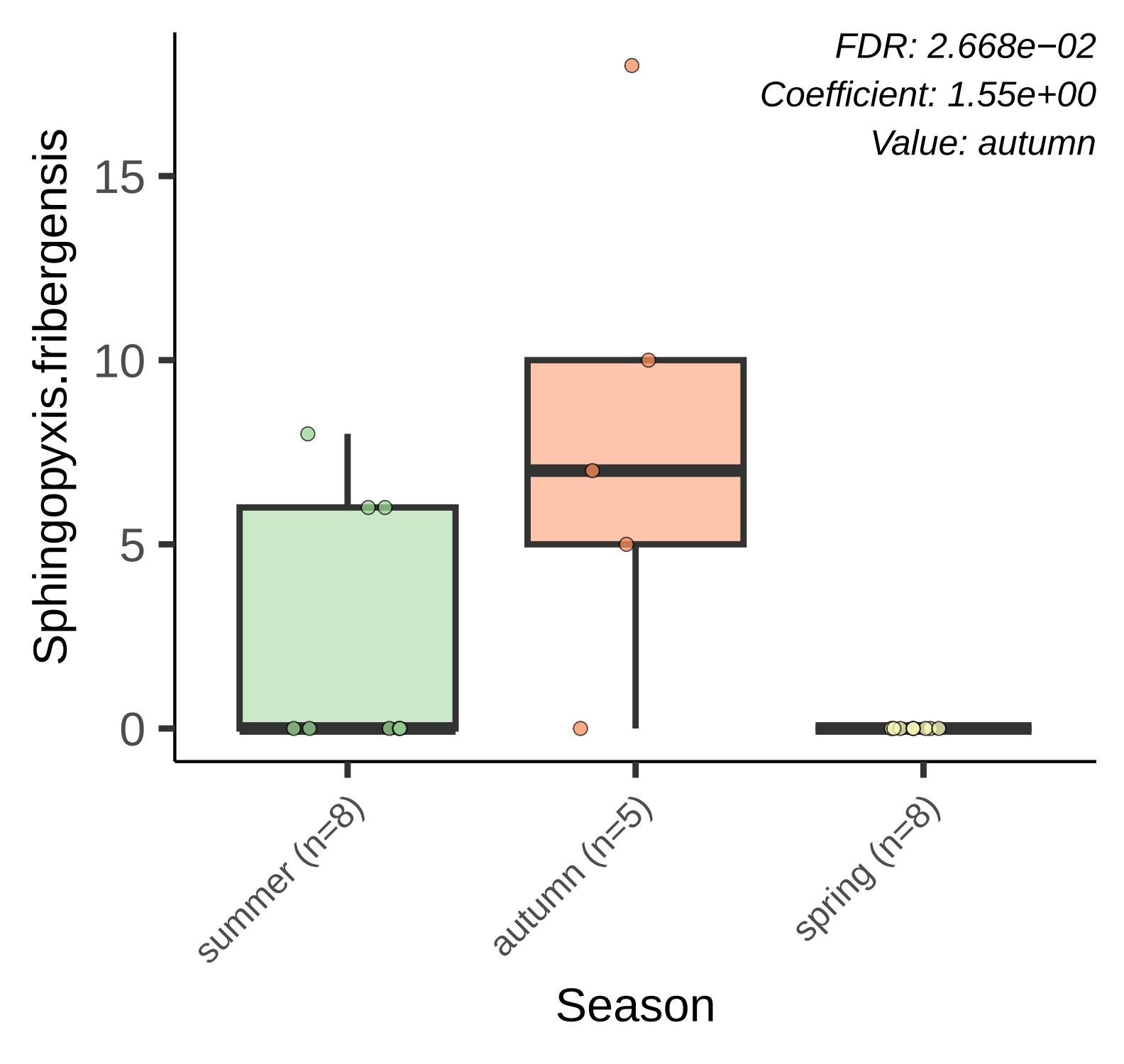

FDR: 2.403e−02
Coefficient: 1.19e+00
Value: autumn
Azospirillum.thiophilum
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

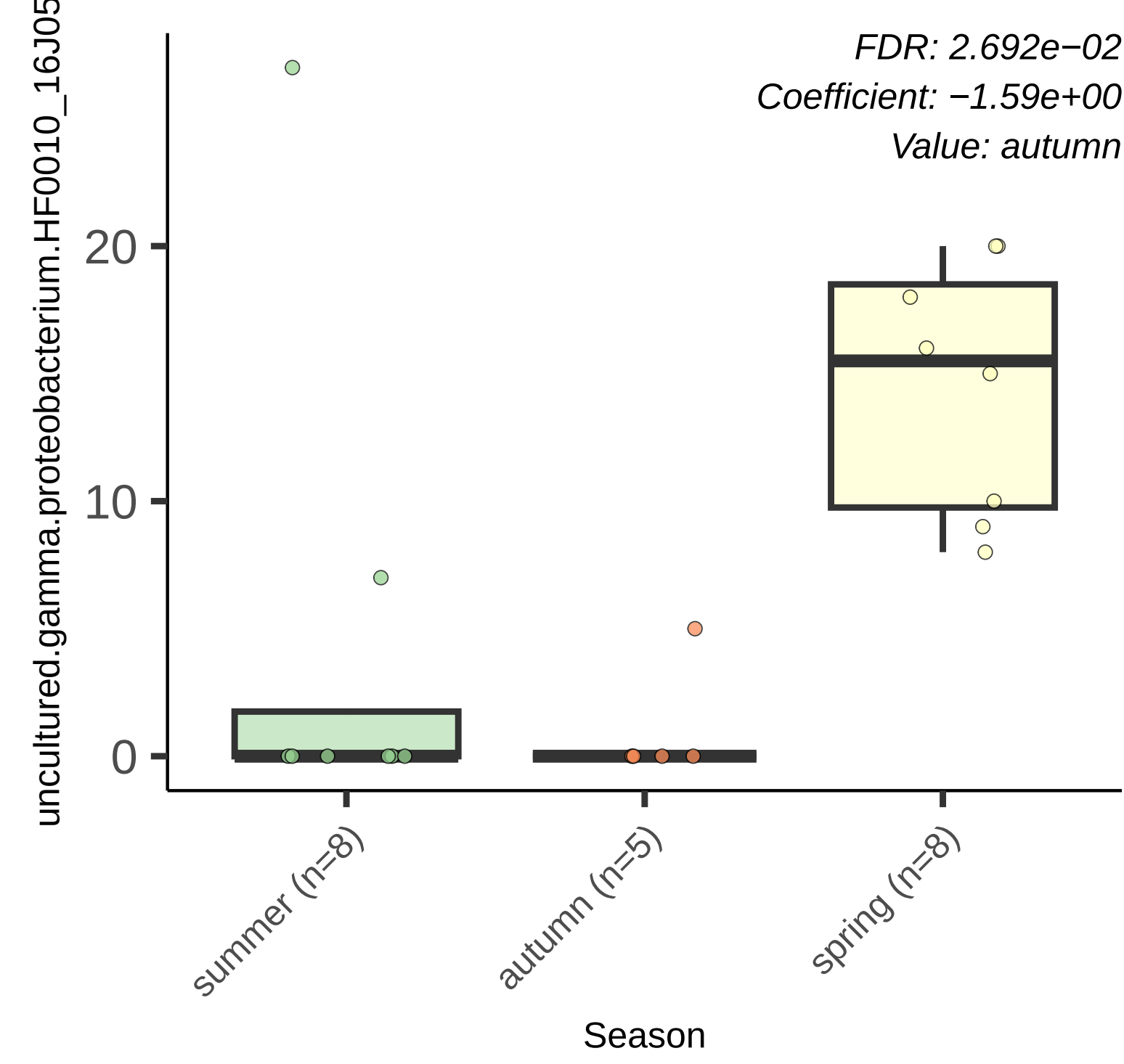

FDR: 2.414e−02
Coefficient: 1.35e+00
Value: autumn
Oscillatoria.acuminata
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

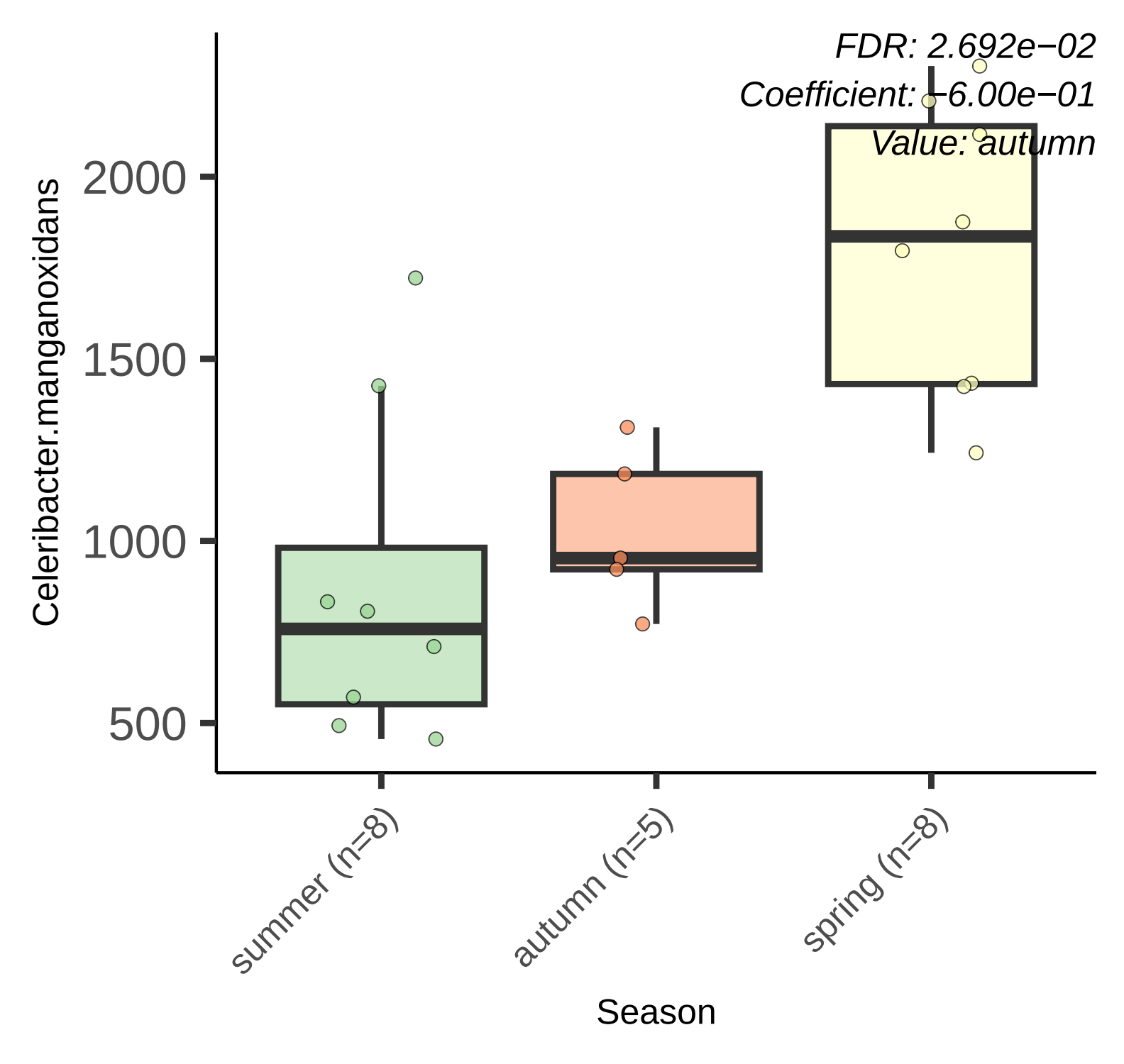

FDR: 2.600e−02
Coefficient: 9.40e−01
Value: autumn
Azospirillum.lipoferum
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

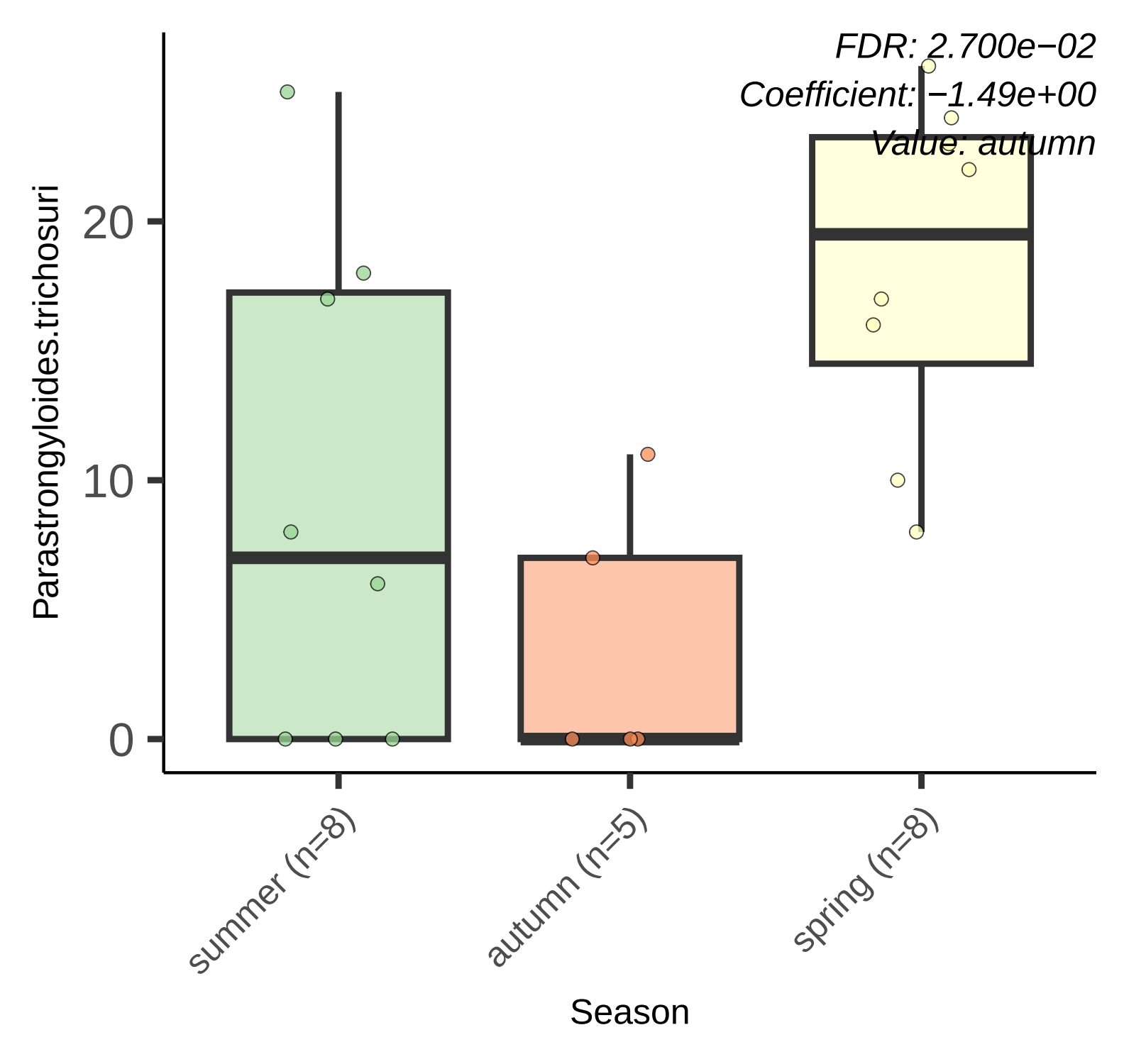

FDR: 2.623e−02
Coefficient: −1.12e+00
Value: autumn
Azotobacter.vinelandii
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

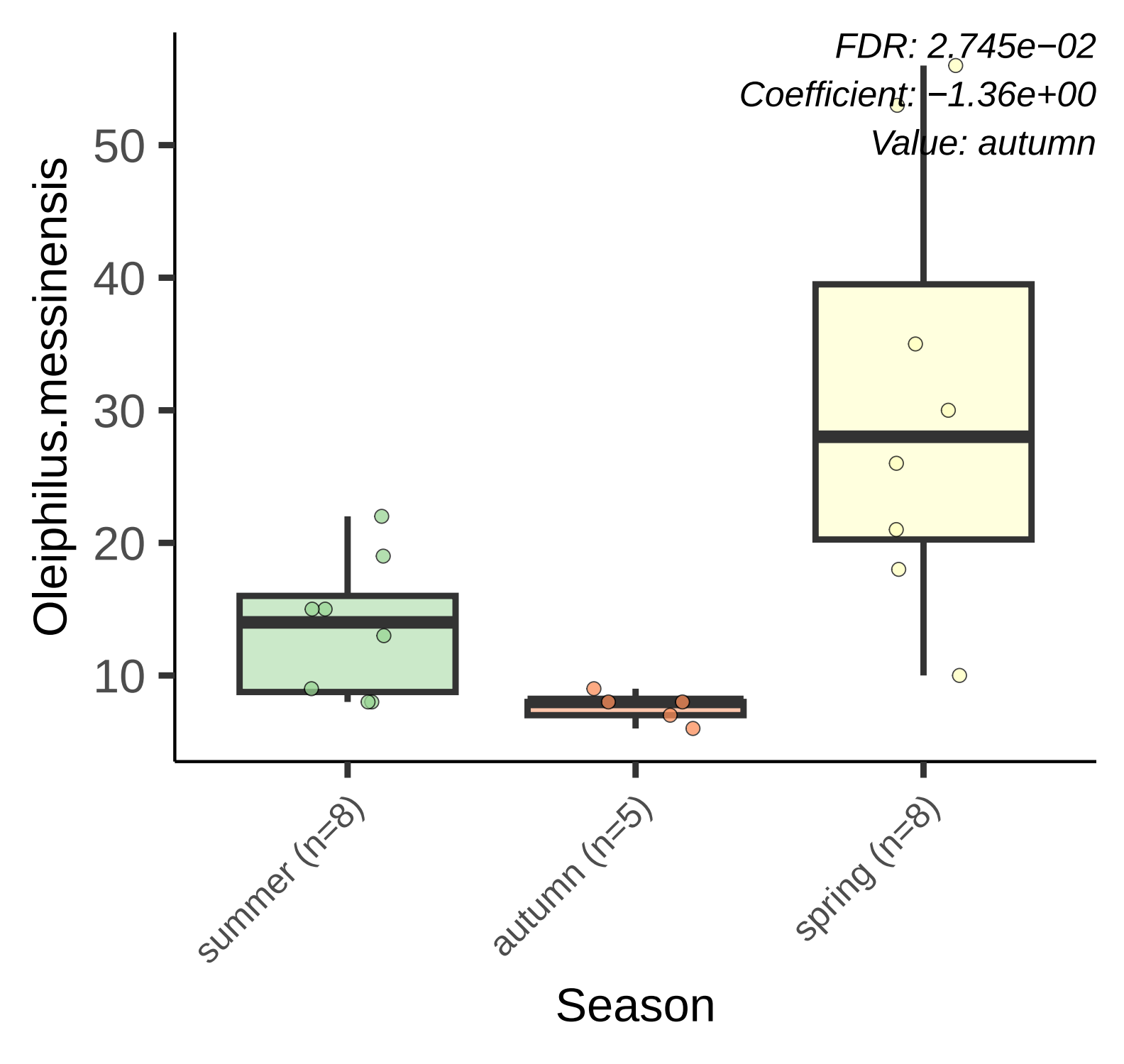

FDR: 2.656e−02
Coefficient: −2.03e+00
Value: autumn
Steroidobacter.denitrificans
125
100
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

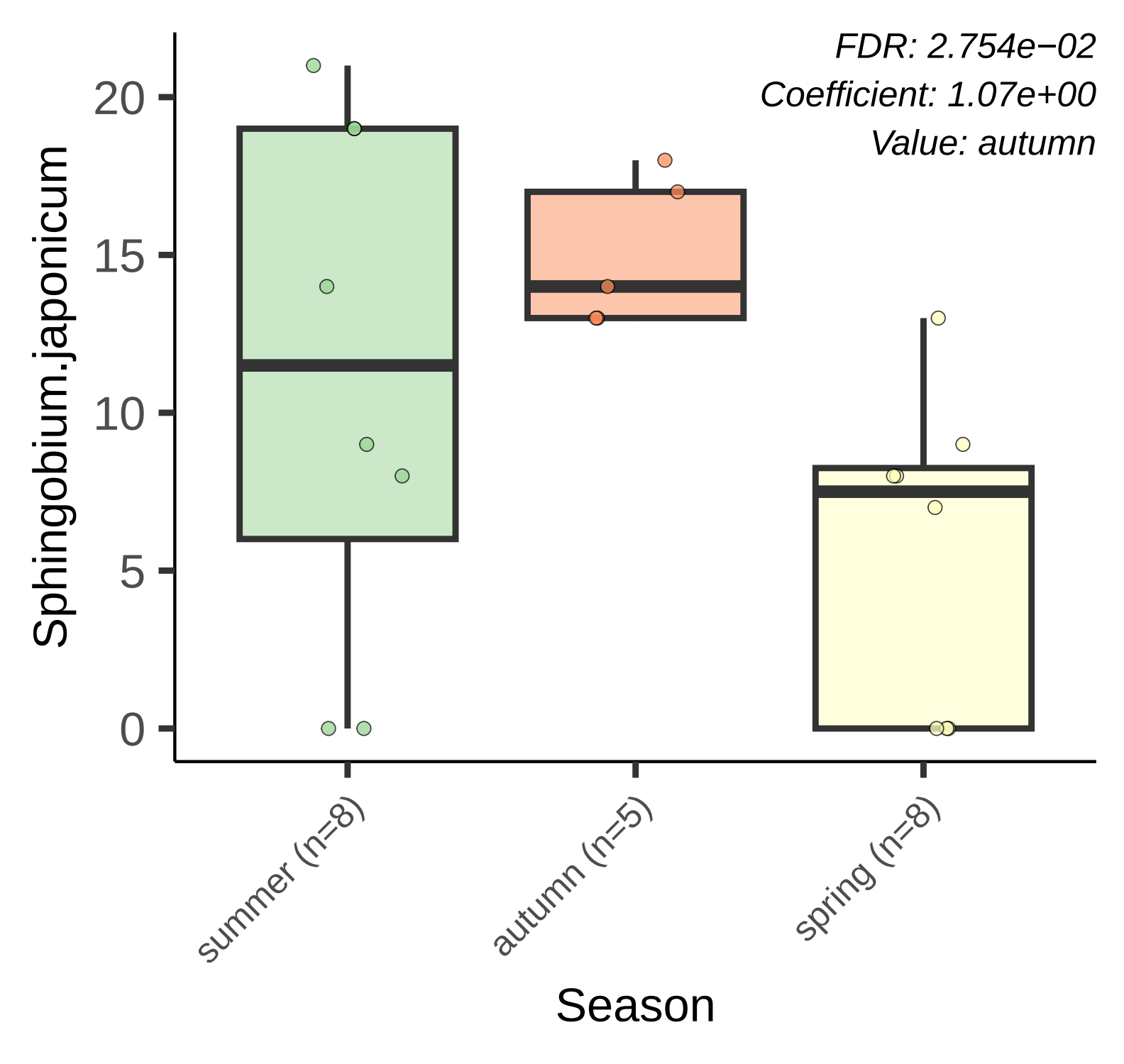

FDR: 2.668e−02
Coefficient: 1.55e+00
Value: autumn
Sphingopyxis.fribergensis
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

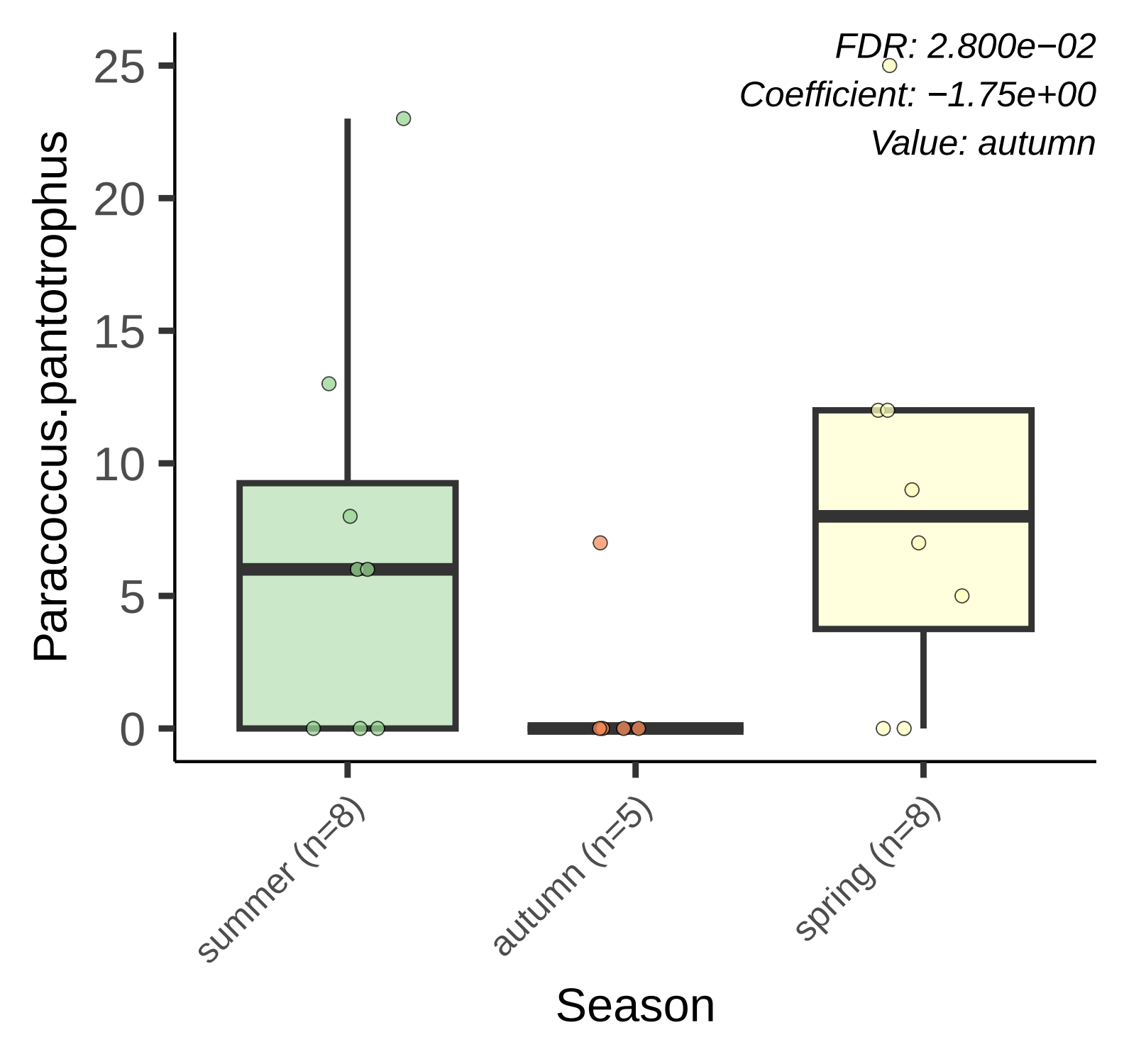

FDR: 2.692e−02
Coefficient: −1.59e+00
Value: autumn
uncultured.gamma.proteobacterium.HF0010_16J05
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

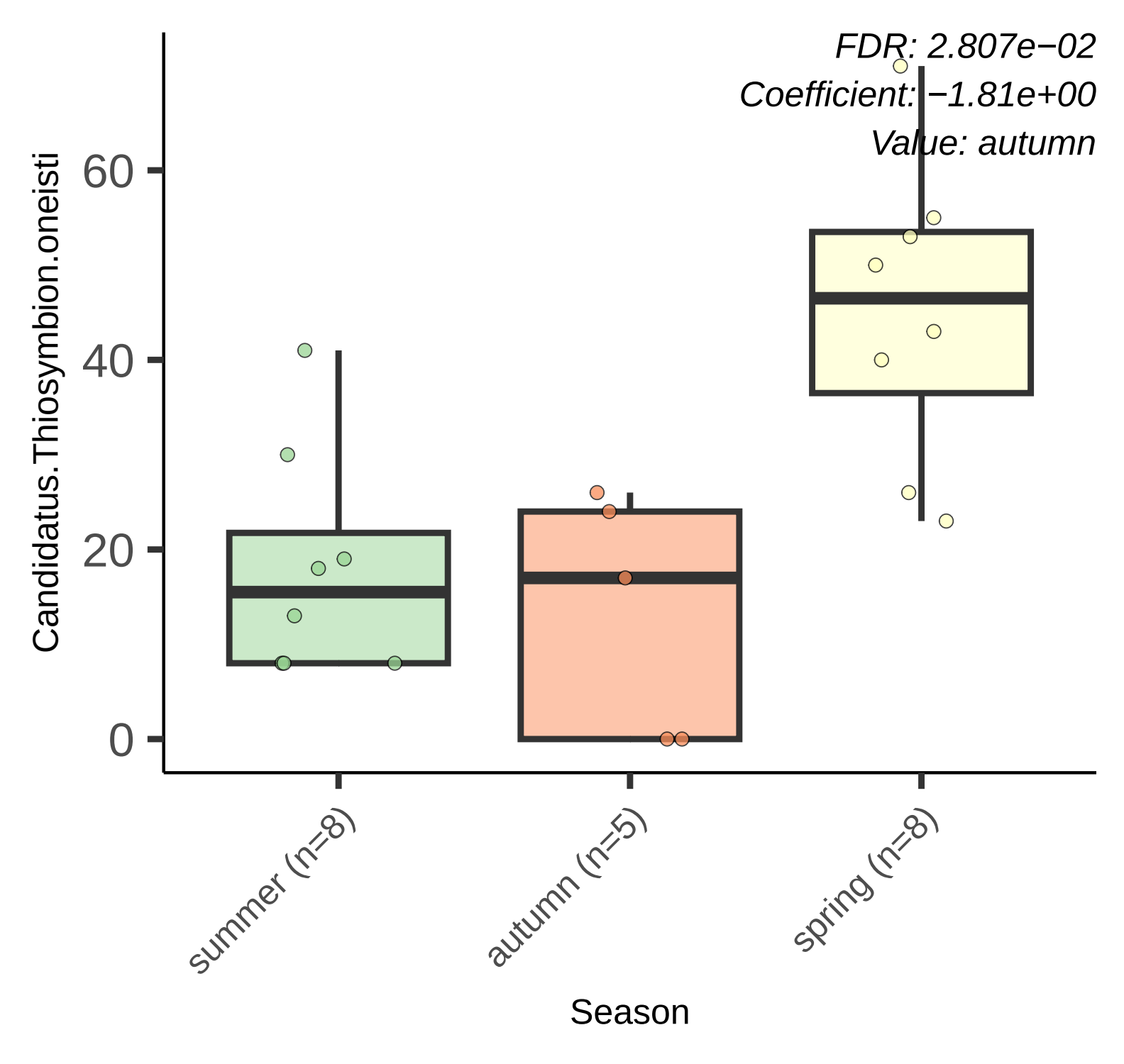

FDR: 2.692e−02
Coefficient: −6.00e−01
Value: autumn
Celeribacter.manganoxidans
2000
1500
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

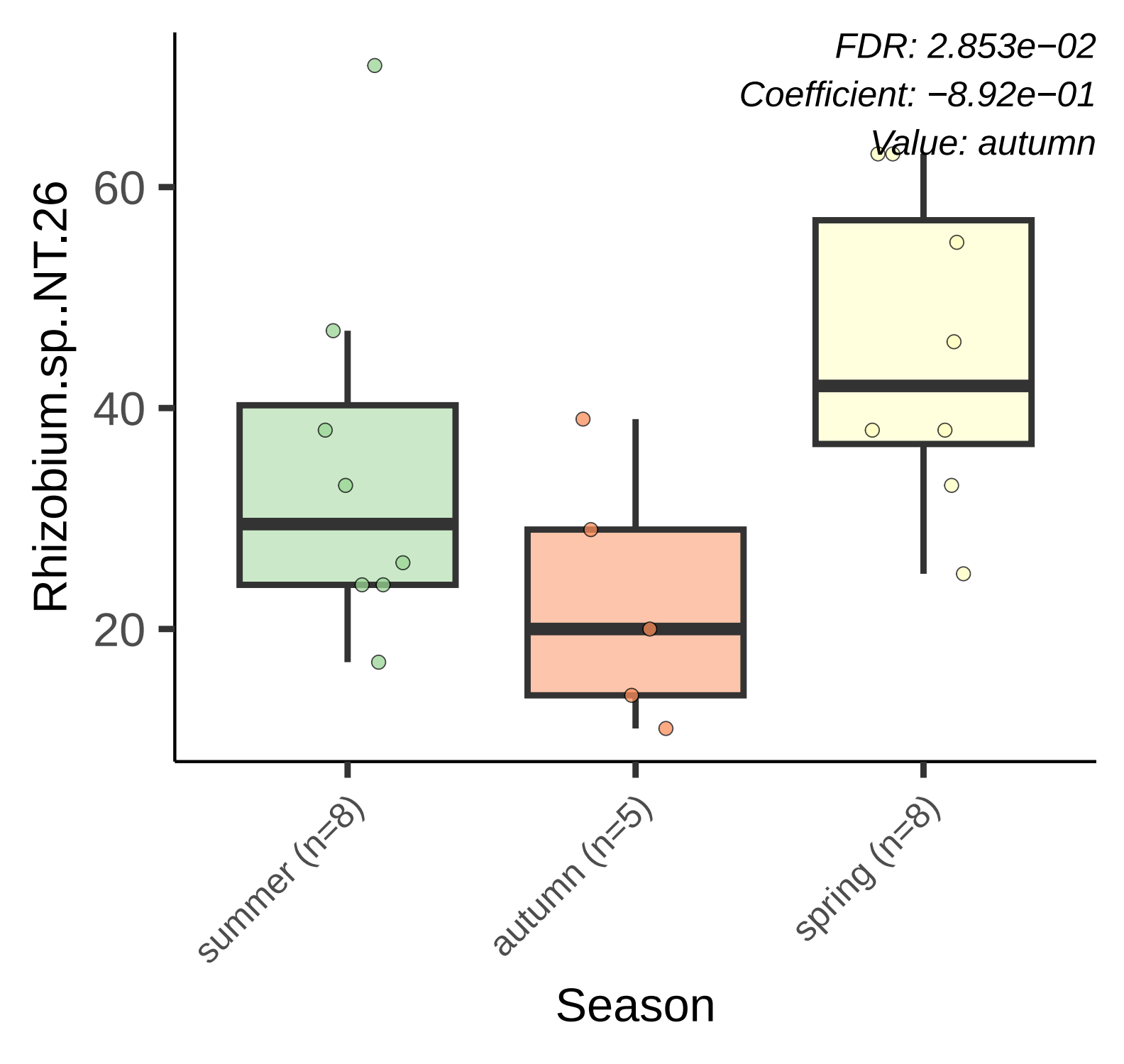

FDR: 2.700e−02
Coefficient: −1.49e+00
Value: autumn
Parastrongyloides.trichosuri
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

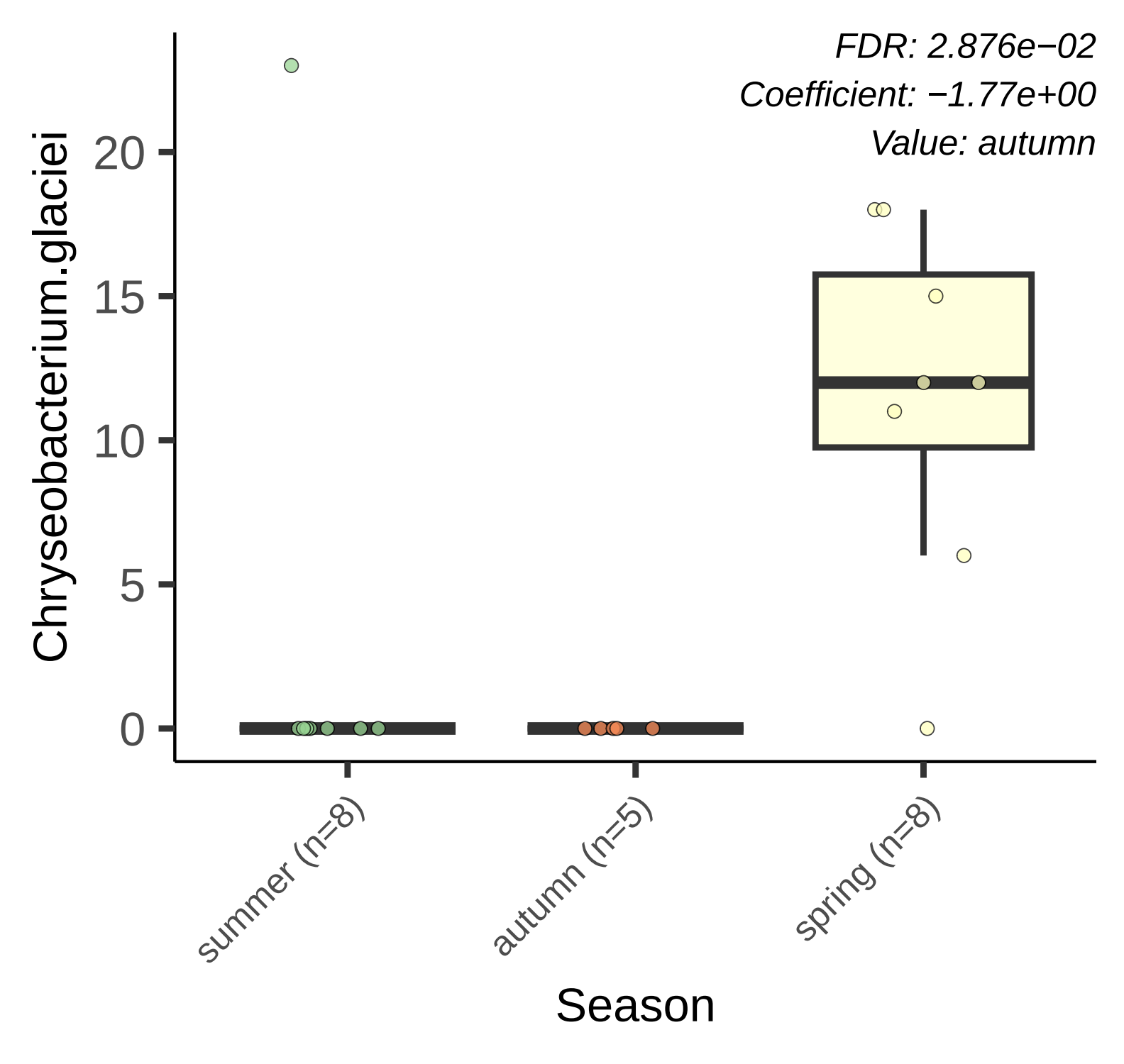

FDR: 2.745e−02
Coefficient: −1.36e+00
Value: autumn
Oleiphilus.messinensis
50
40
30
20
10
summer (n=8)
autumn (n=5)
spring (n=8)
Season

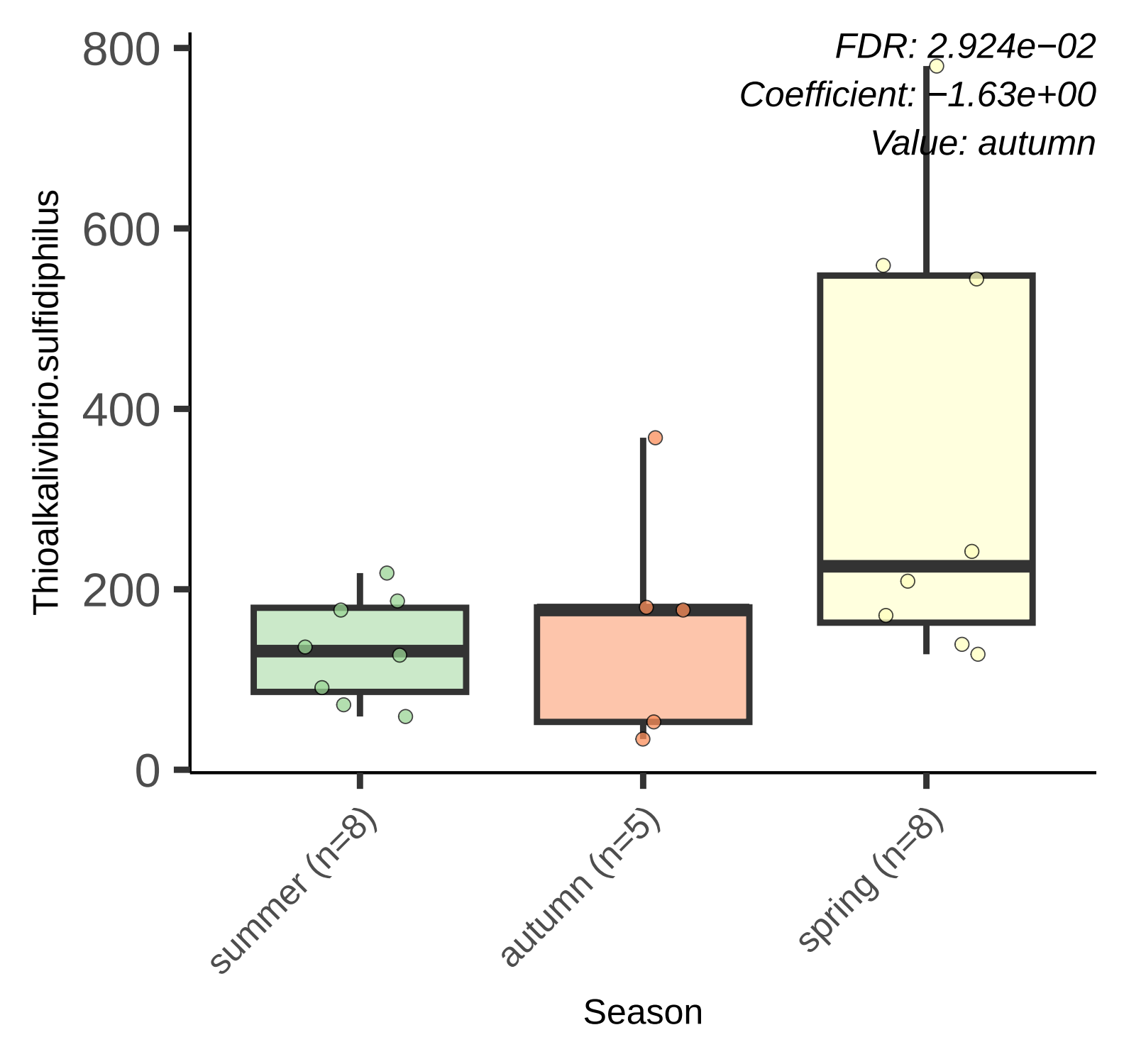

FDR: 2.754e−02
Coefficient: 1.07e+00
Value: autumn
Sphingobium.japonicum
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

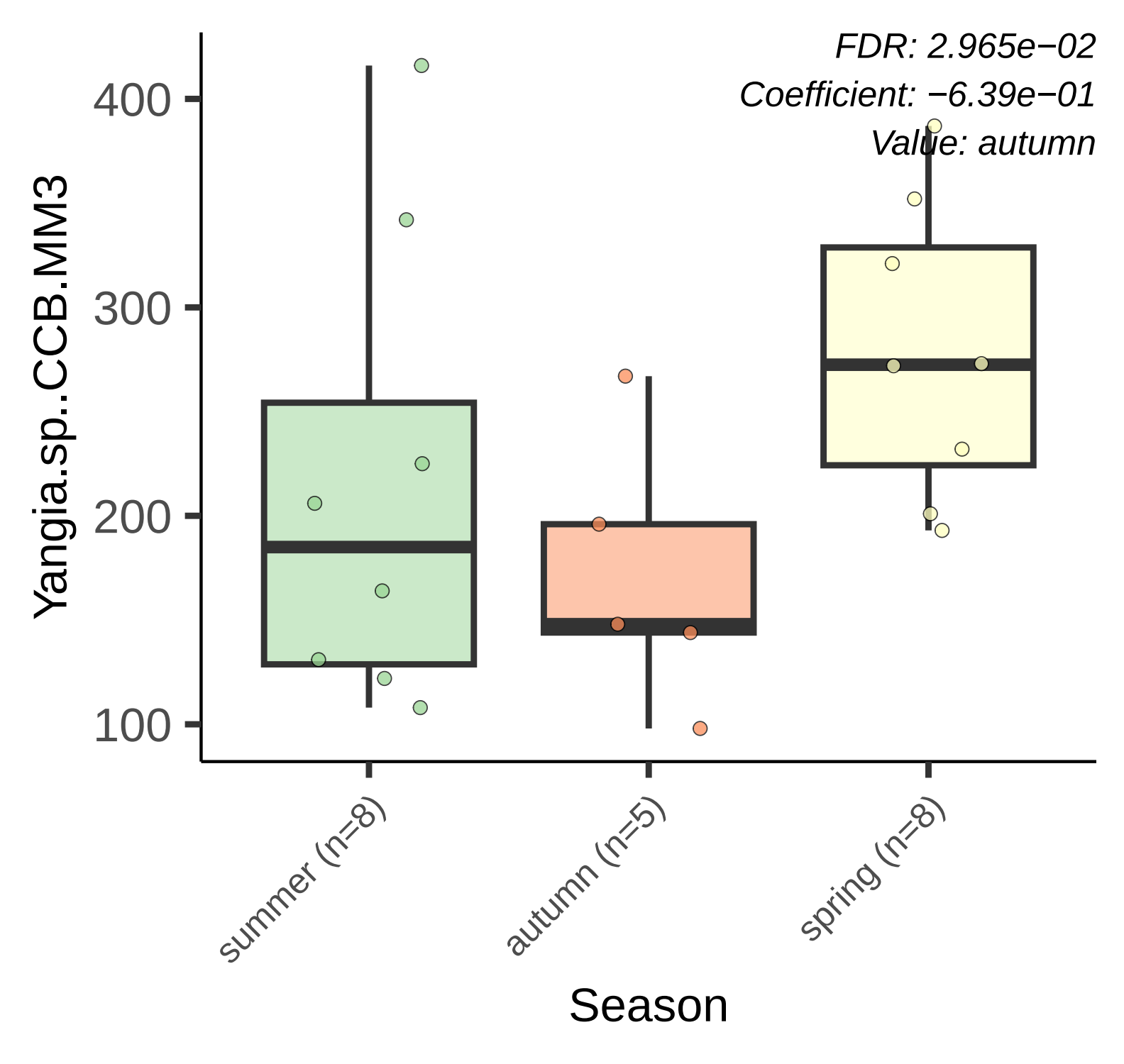

FDR: 2.800e−02
Coefficient: −1.75e+00
Value: autumn
Paracoccus.pantotrophus
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

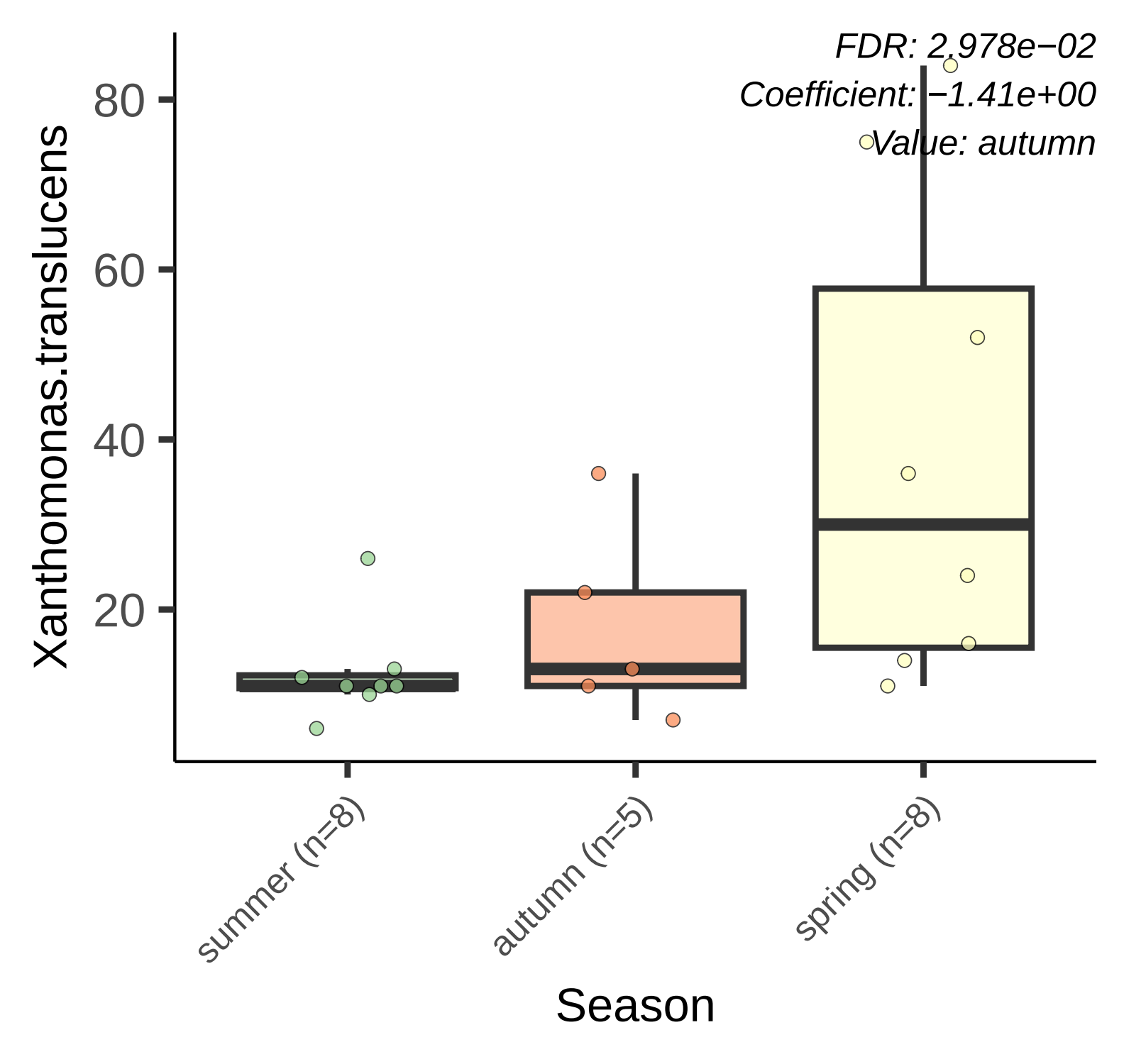

FDR: 2.807e−02
Coefficient: −1.81e+00
Value: autumn
Candidatus.Thiosymbion.oneisti
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

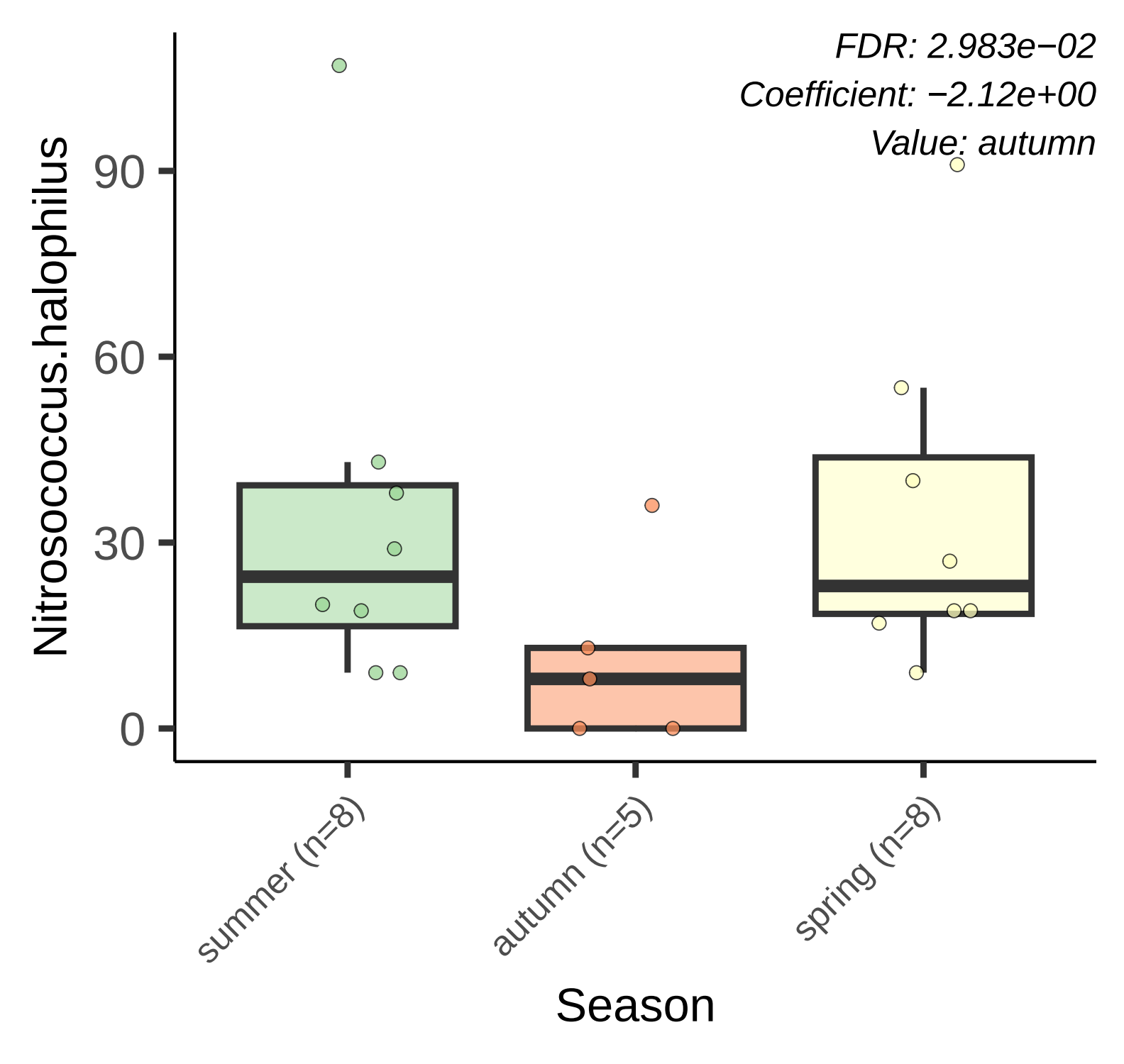

FDR: 2.853e−02
Coefficient: −8.92e−01
Value: autumn
Rhizobium.sp..NT.26
60
40
20
summer (n=8)
autumn (n=5)
spring (n=8)
Season

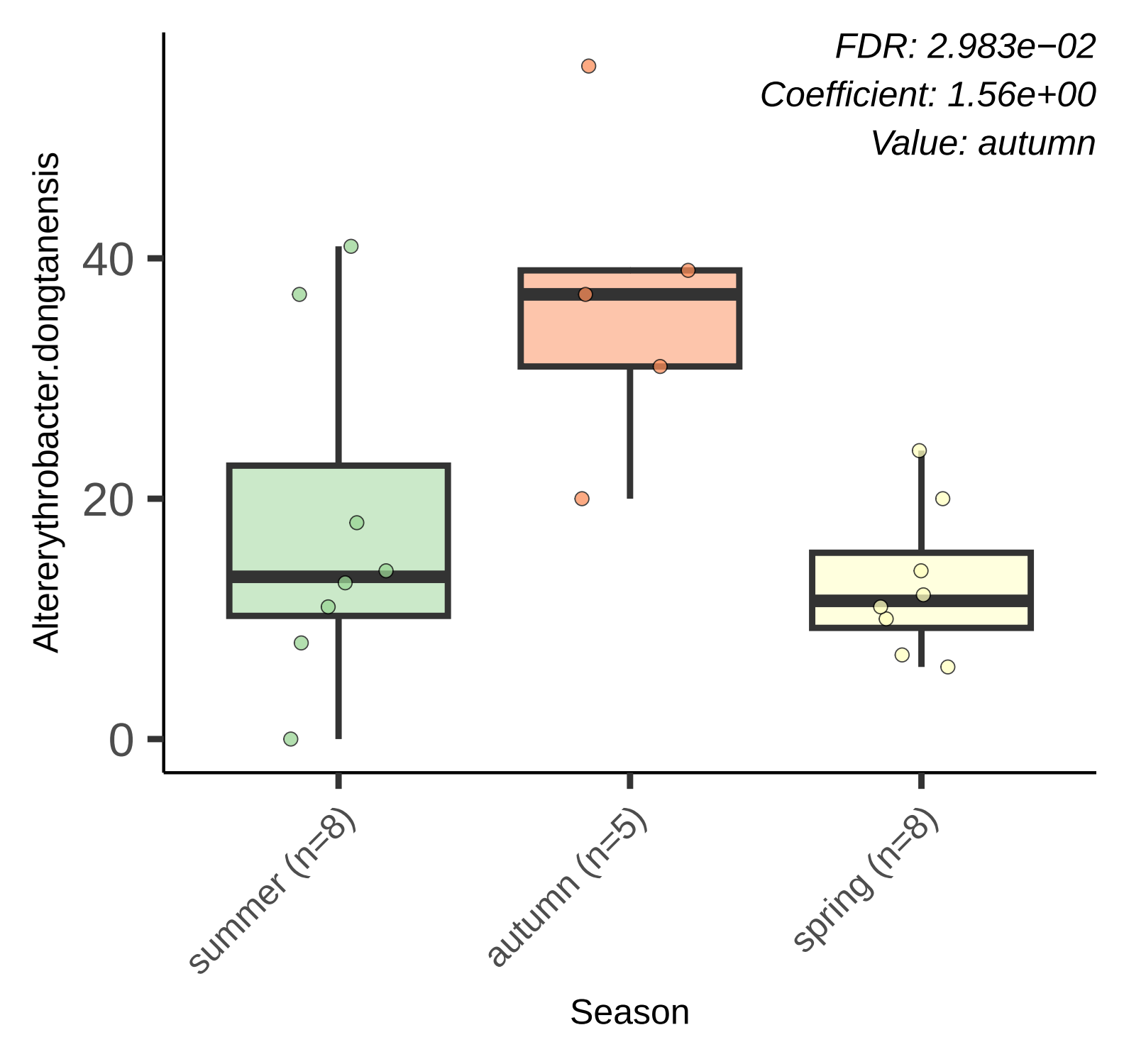

FDR: 2.876e−02
Coefficient: −1.77e+00
Value: autumn
Chryseobacterium.glaciei
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

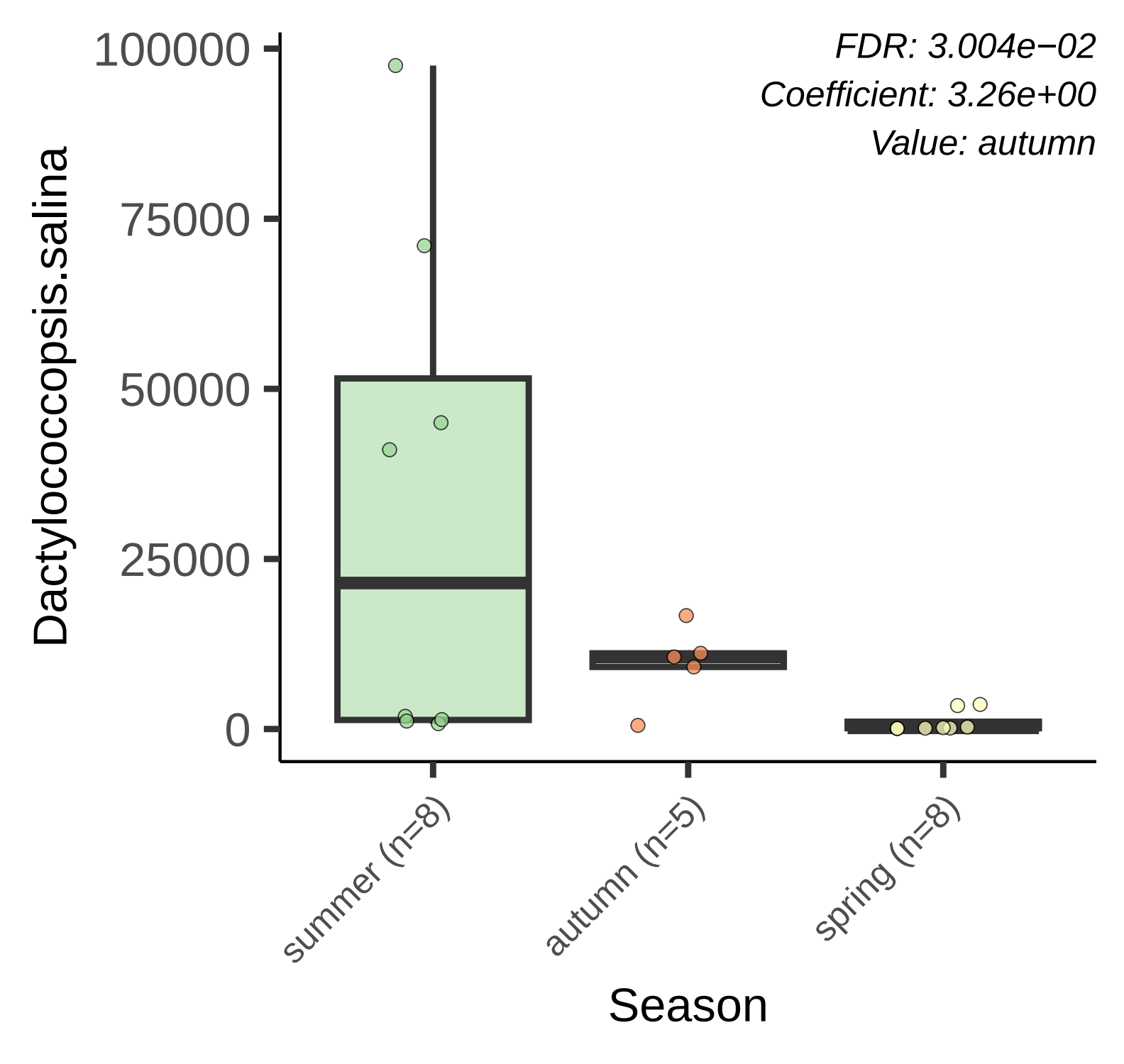

FDR: 2.924e−02
Coefficient: −1.63e+00
Value: autumn
Thioalkalivibrio.sulfidiphilus
800
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

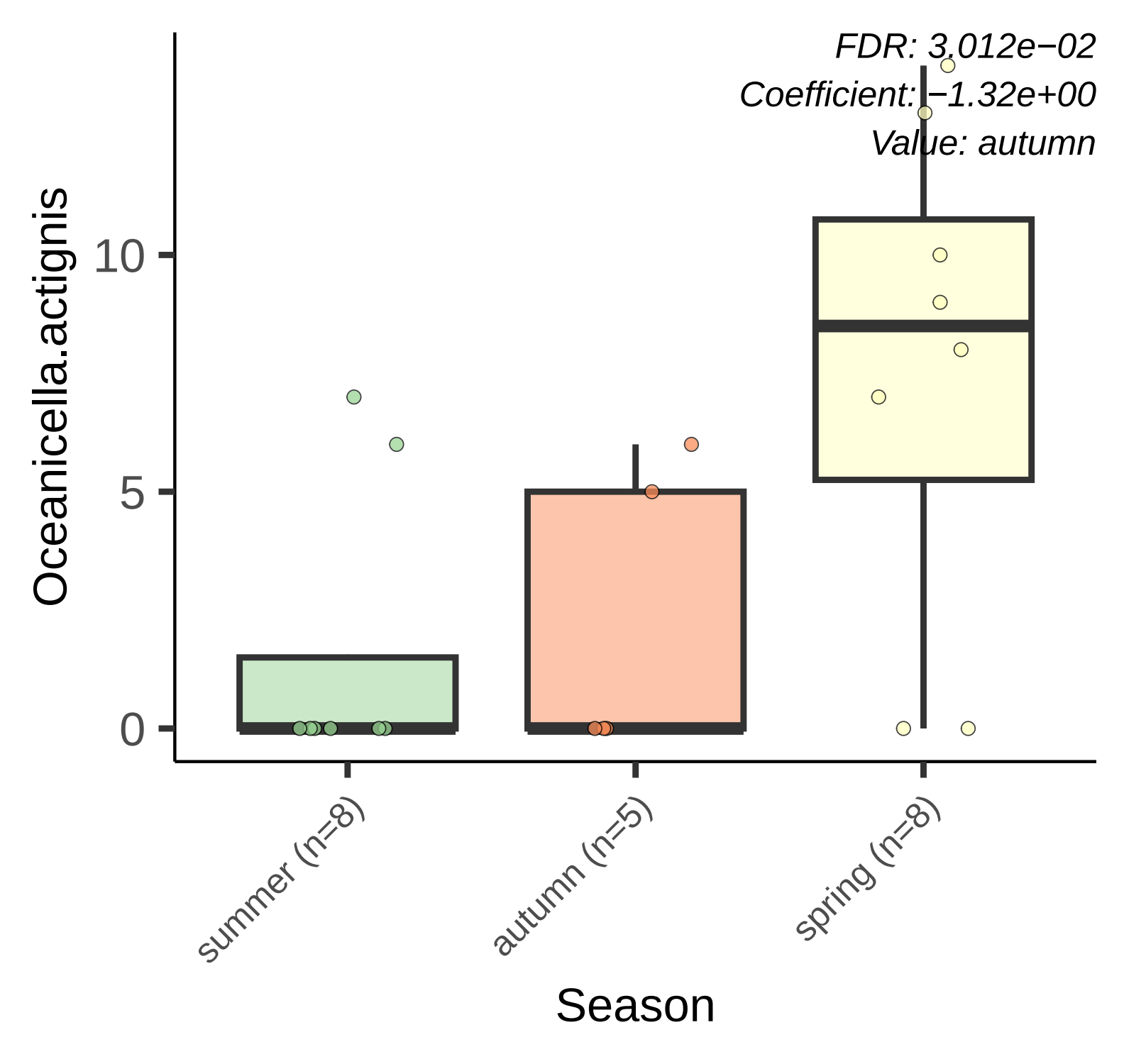

FDR: 2.965e−02
Coefficient: −6.39e−01
Value: autumn
Yangia.sp..CCB.MM3
400
300
200
100
summer (n=8)
autumn (n=5)
spring (n=8)
Season

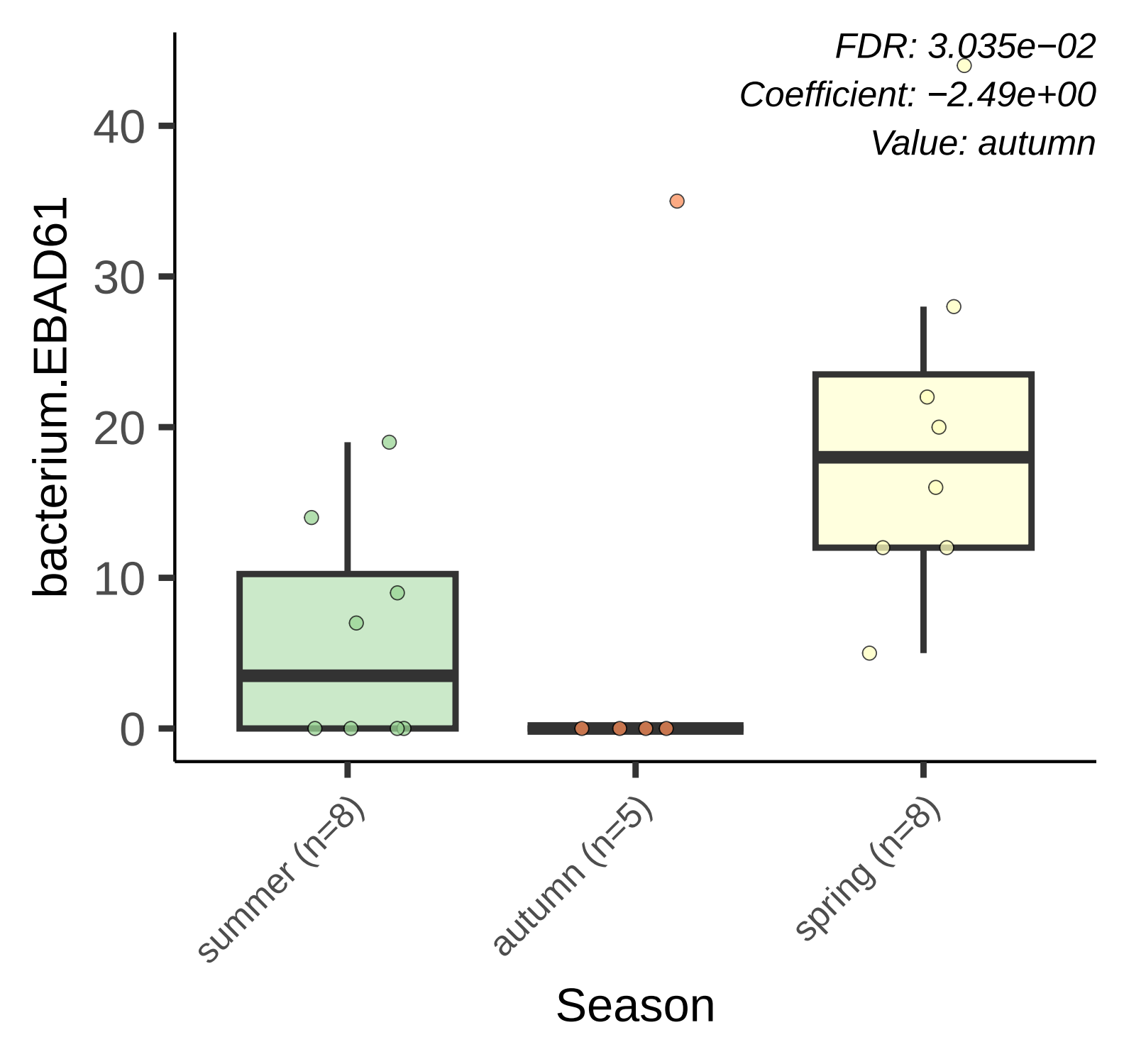

FDR: 2.978e−02
Coefficient: −1.41e+00
Value: autumn
Xanthomonas.translucens
80
60
40
20
summer (n=8)
autumn (n=5)
spring (n=8)
Season

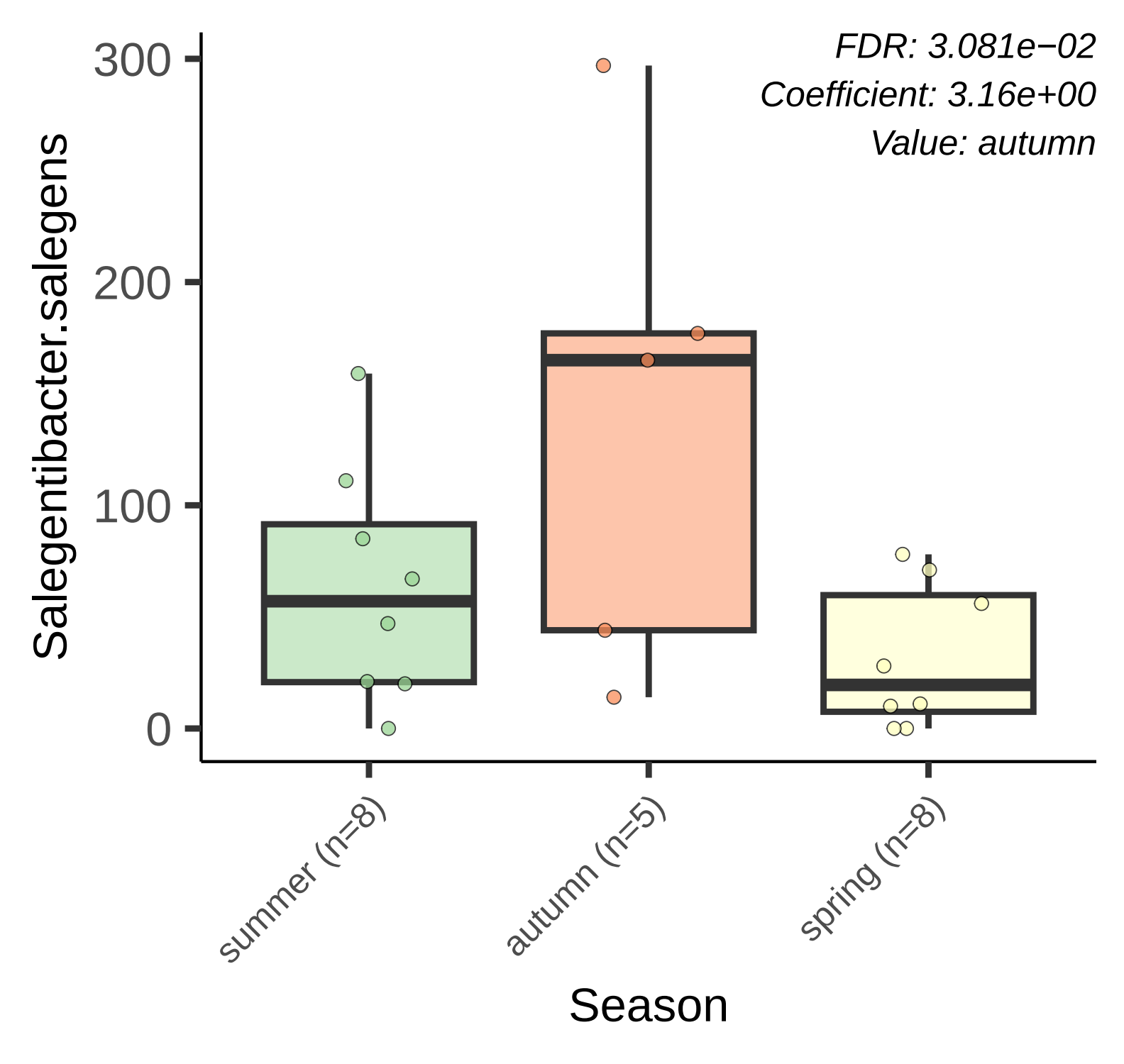

FDR: 2.983e−02
Coefficient: −2.12e+00
Value: autumn
Nitrosococcus.halophilus
90
60
30
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

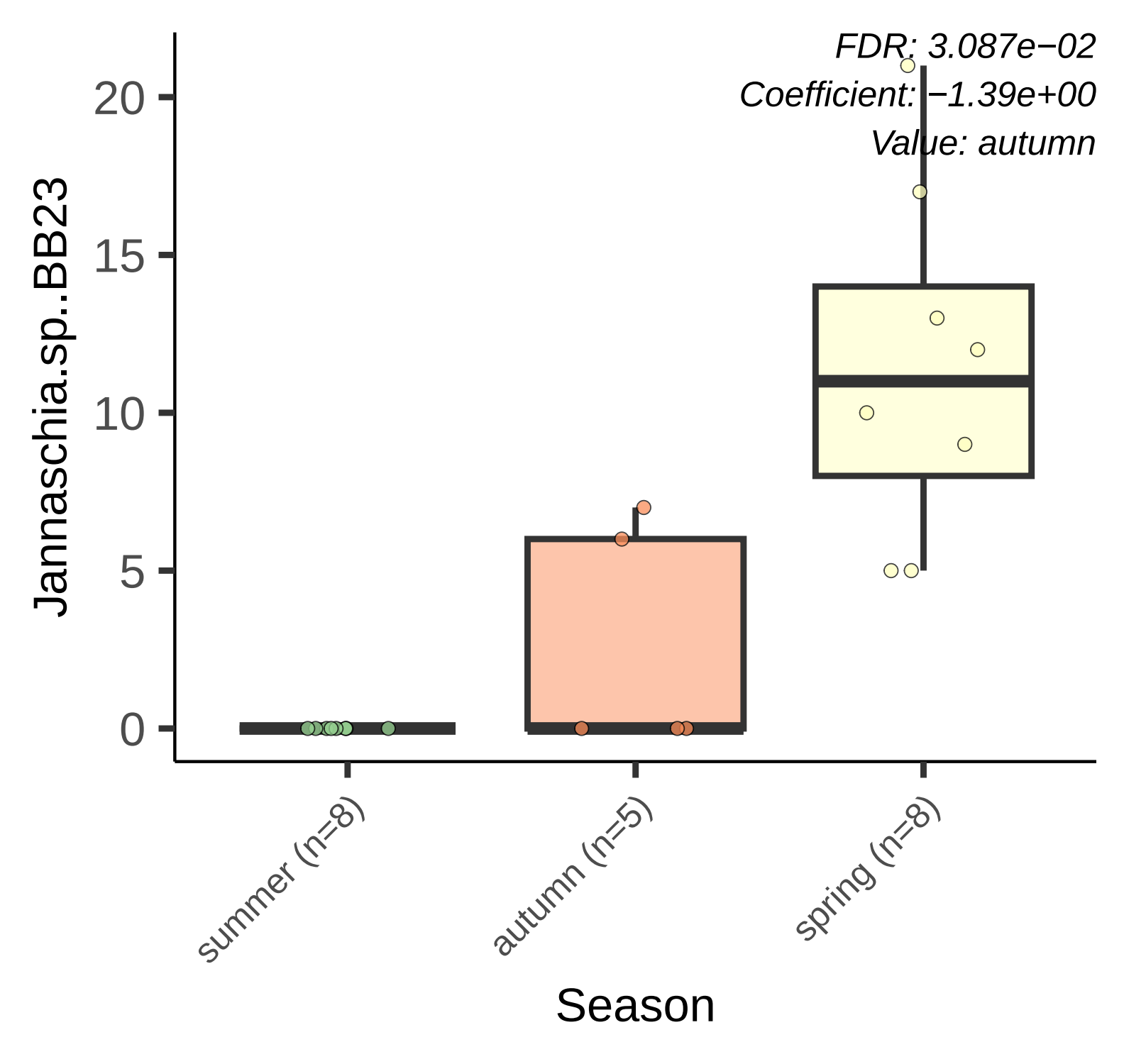

FDR: 2.983e−02
Coefficient: 1.56e+00
Value: autumn
Altererythrobacter.dongtanensis
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

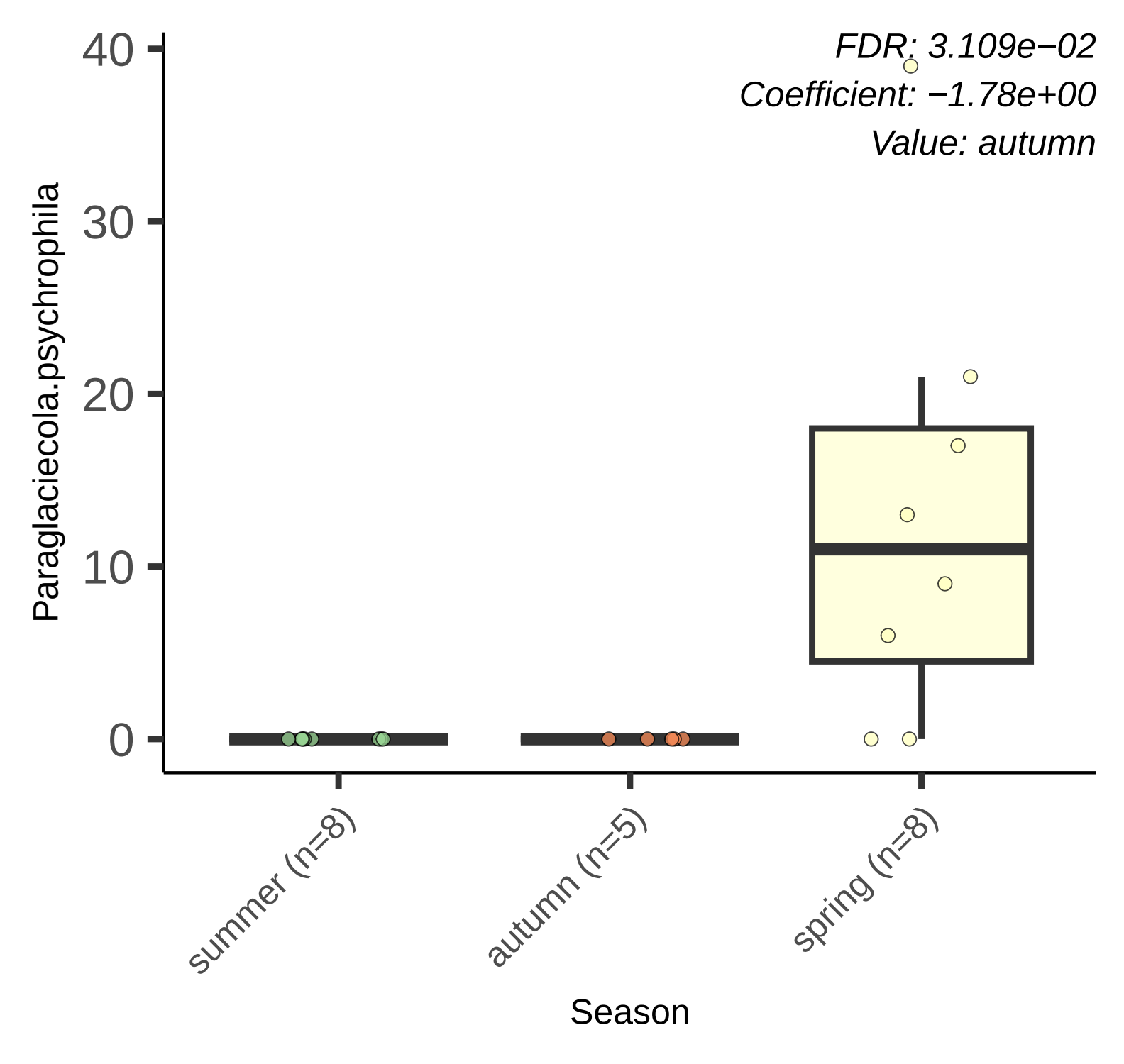

FDR: 3.004e−02
Coefficient: 3.26e+00
Value: autumn
Dactylococcopsis.salina
100000
75000
50000
25000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

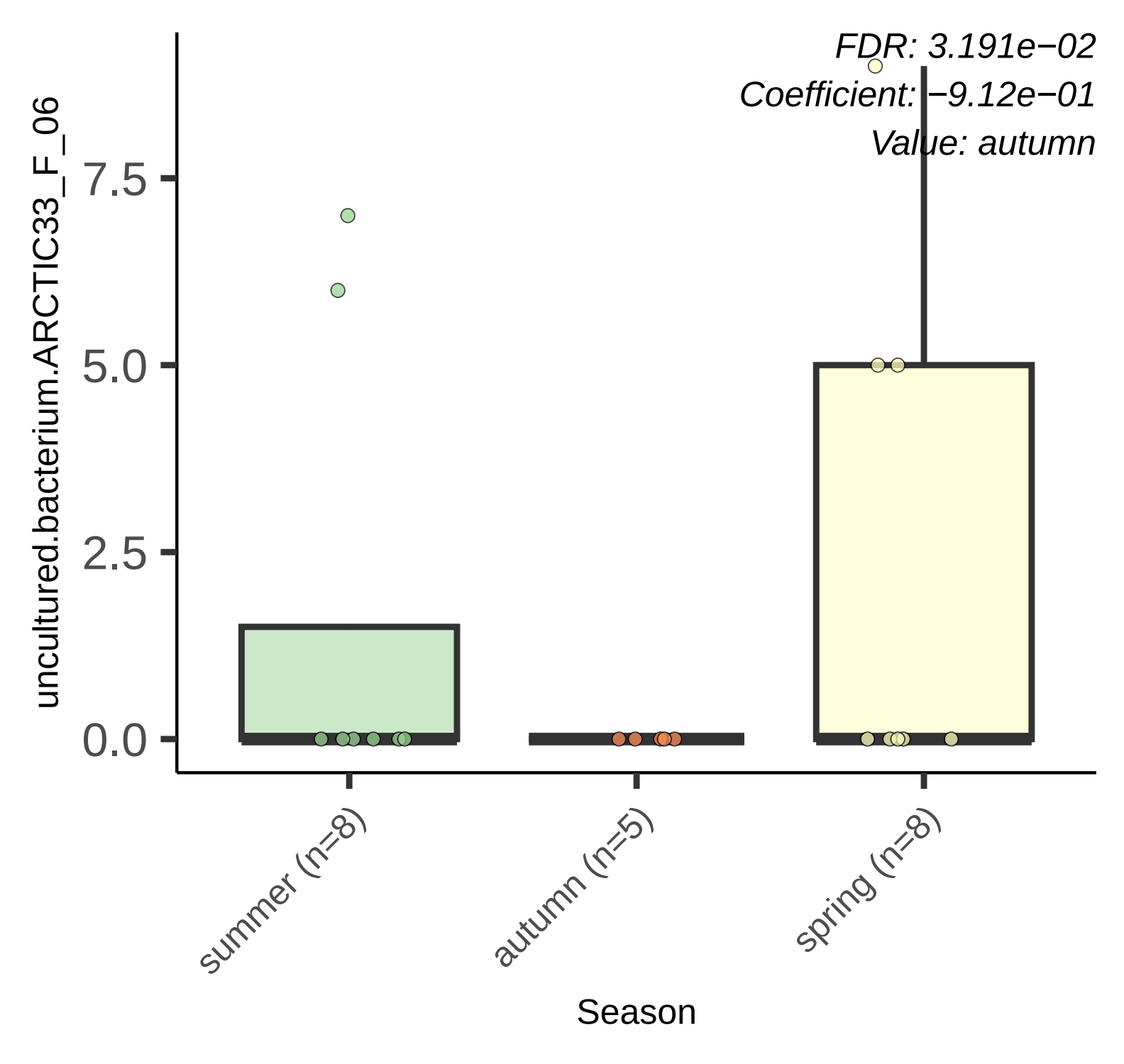

FDR: 3.012e−02
Coefficient: −1.32e+00
Value: autumn
Oceanicella.actignis
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

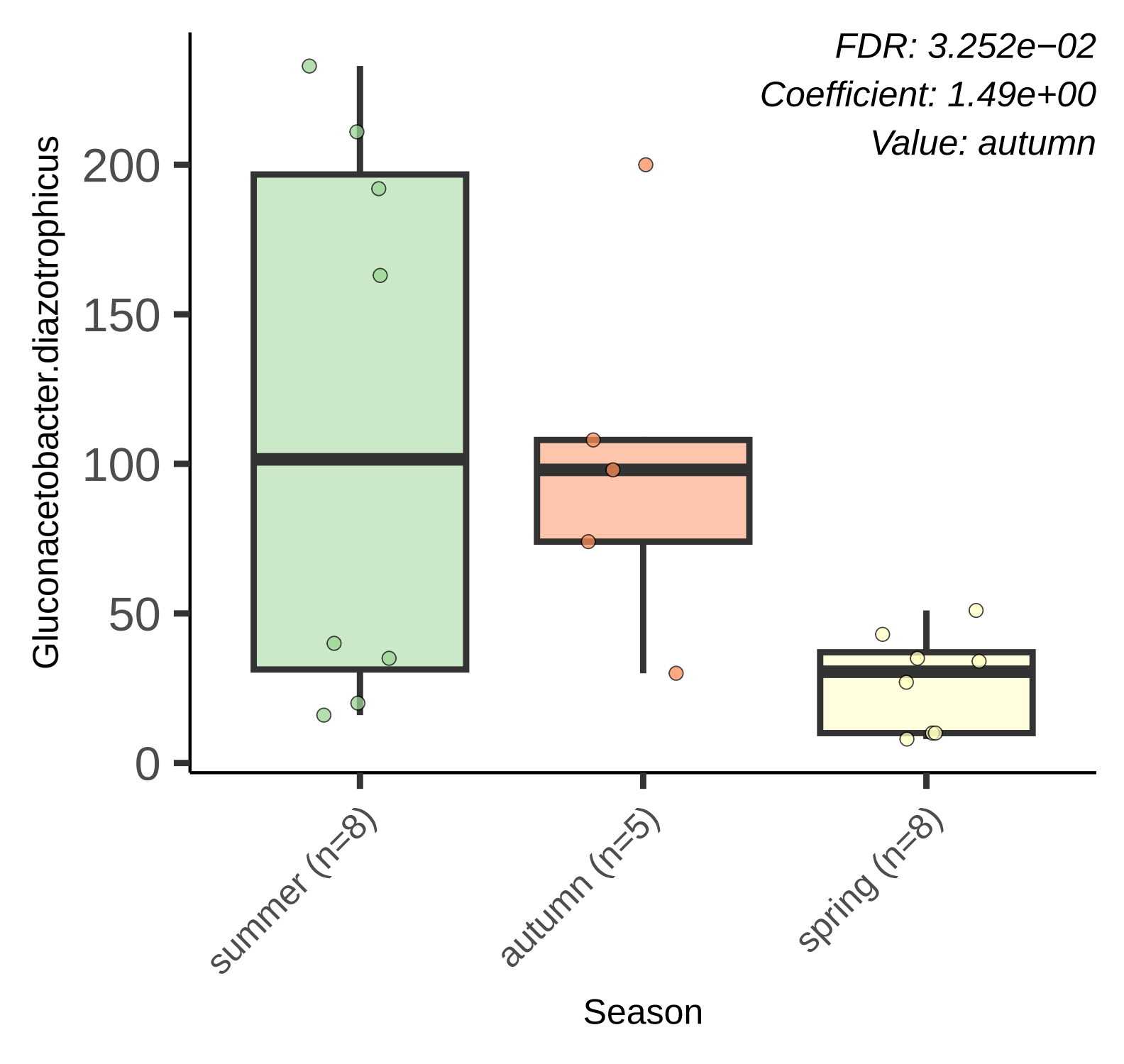

FDR: 3.035e−02
Coefficient: −2.49e+00
Value: autumn
bacterium.EBAD61
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

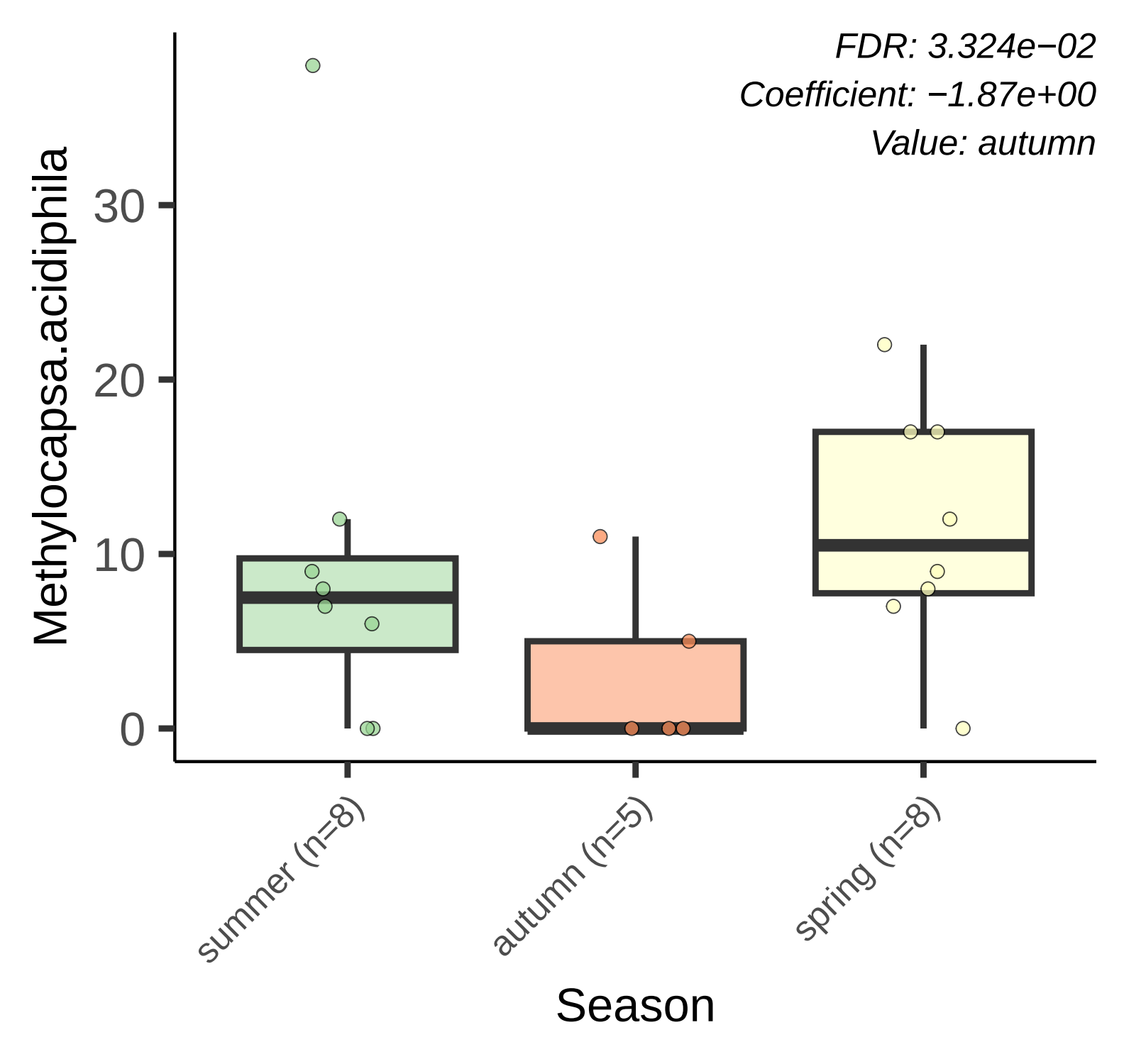

FDR: 3.081e−02
Coefficient: 3.16e+00
Value: autumn
Salegentibacter.salegens
300
200
100
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

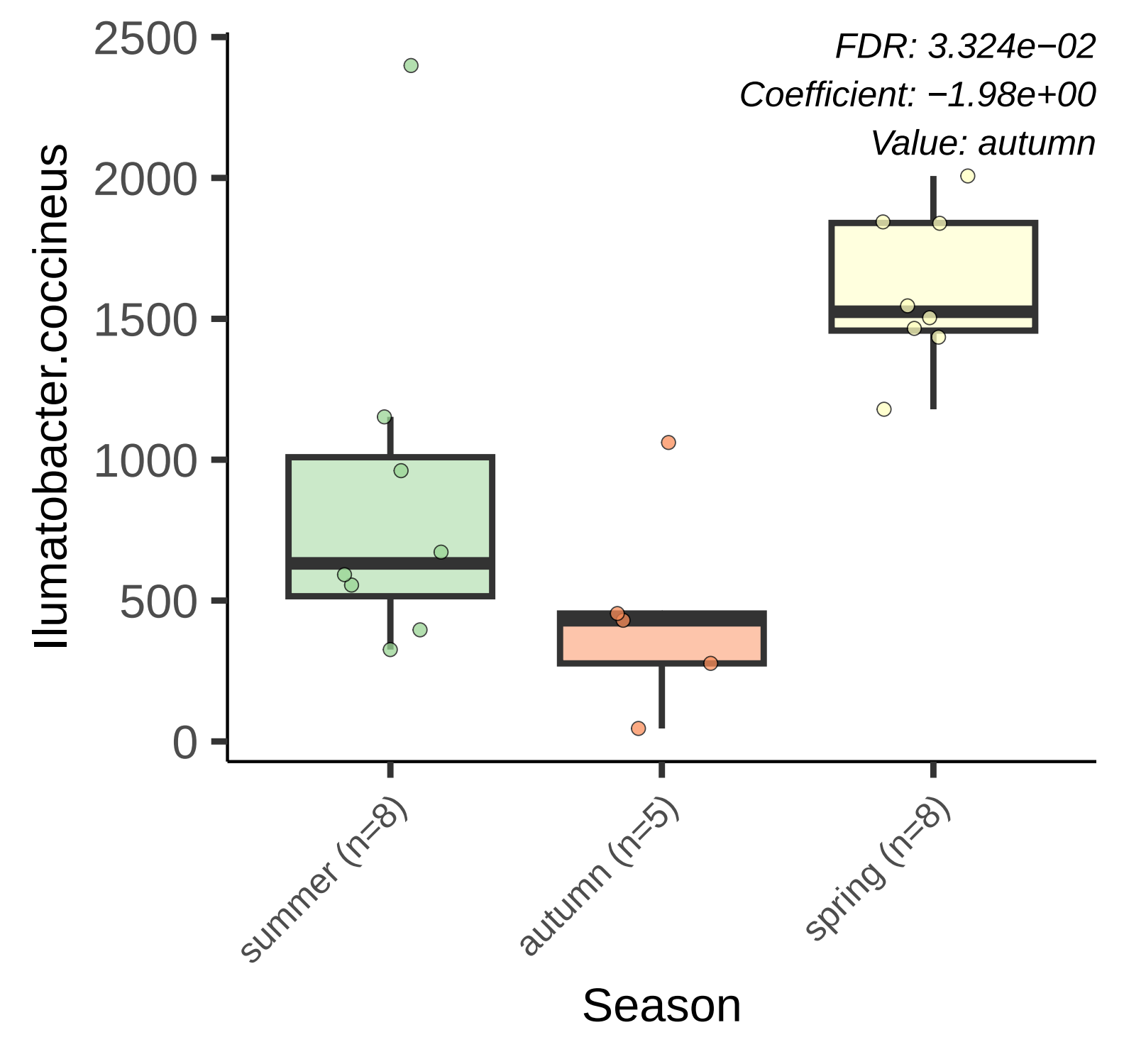

FDR: 3.087e−02
Coefficient: −1.39e+00
Value: autumn
Jannaschia.sp..BB23
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

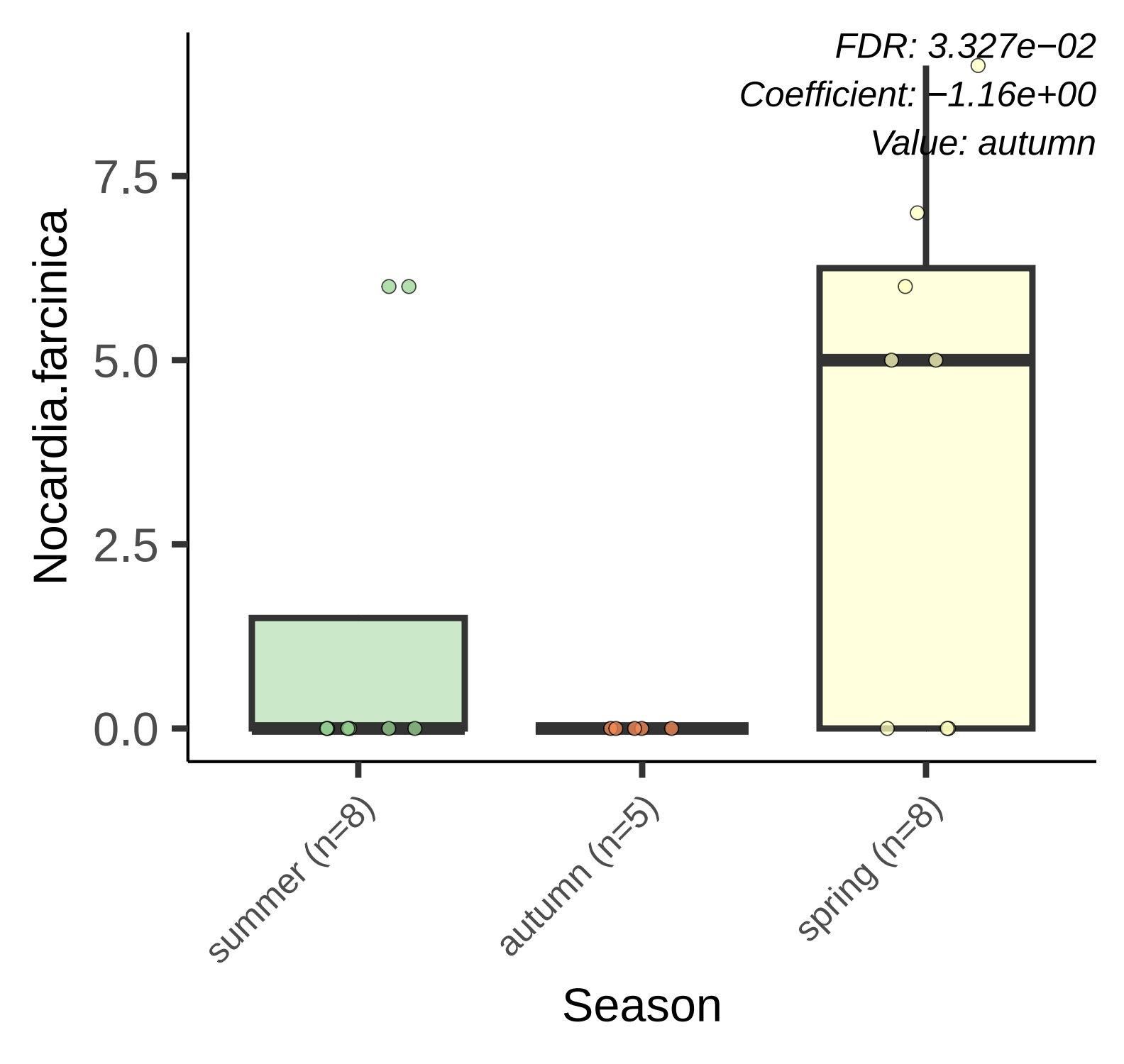

FDR: 3.109e−02
Coefficient: −1.78e+00
Value: autumn
Paraglaciecola.psychrophila
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

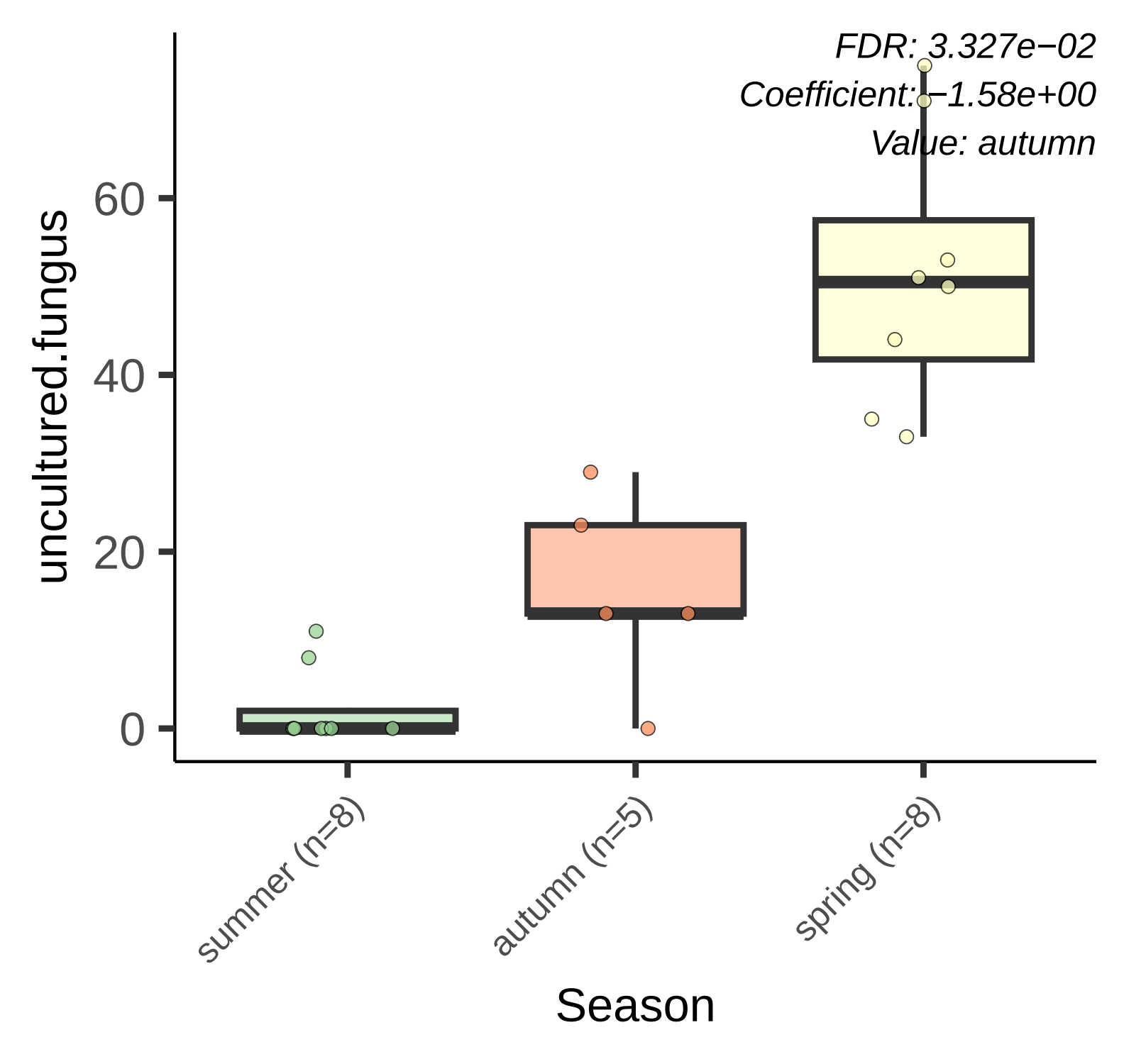

FDR: 3.191e−02
Coefficient: −9.12e−01
Value: autumn
uncultured.bacterium.ARCTIC33_F_06
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

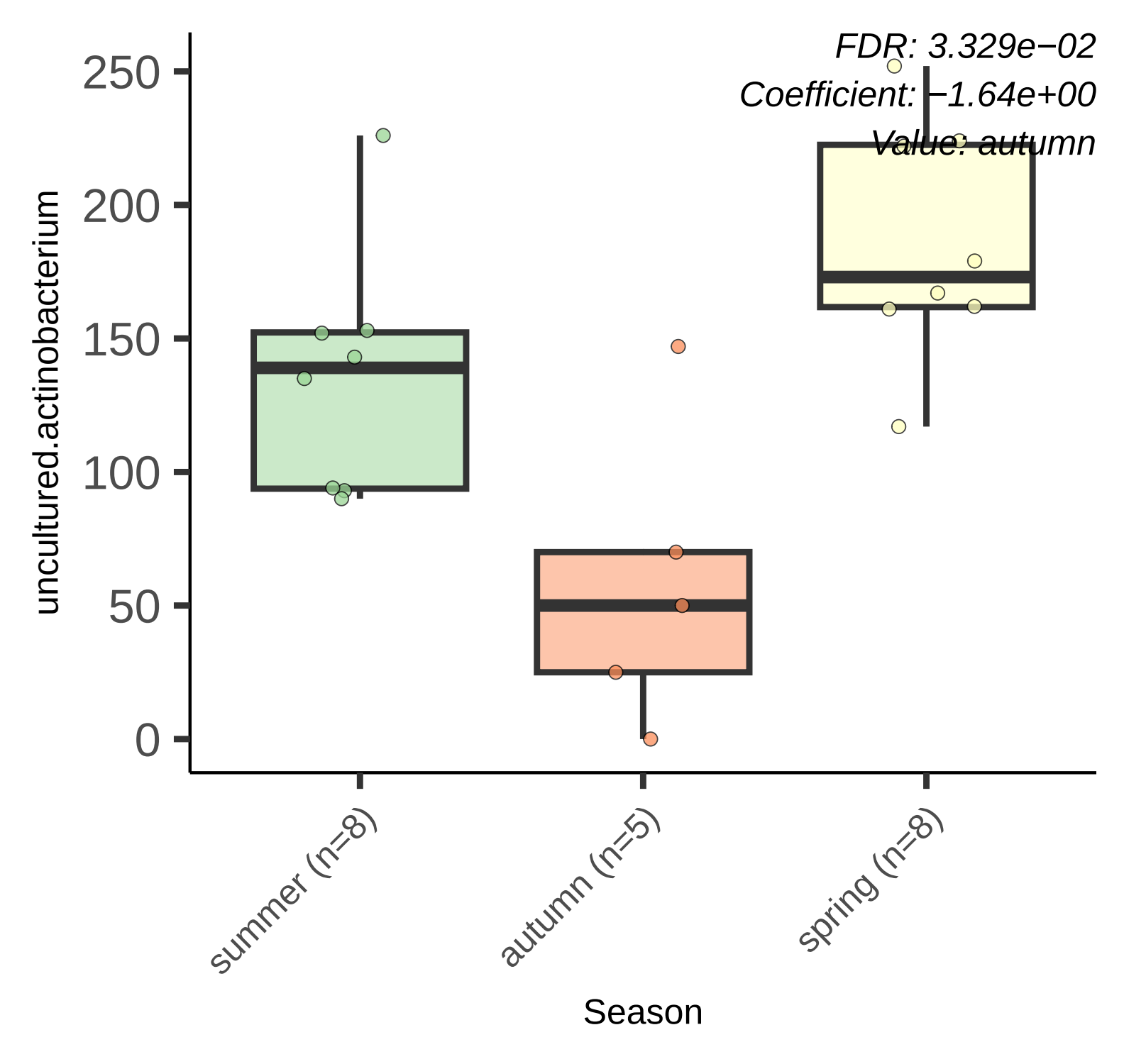

FDR: 3.252e−02
Coefficient: 1.49e+00
Value: autumn
Gluconacetobacter.diazotrophicus
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

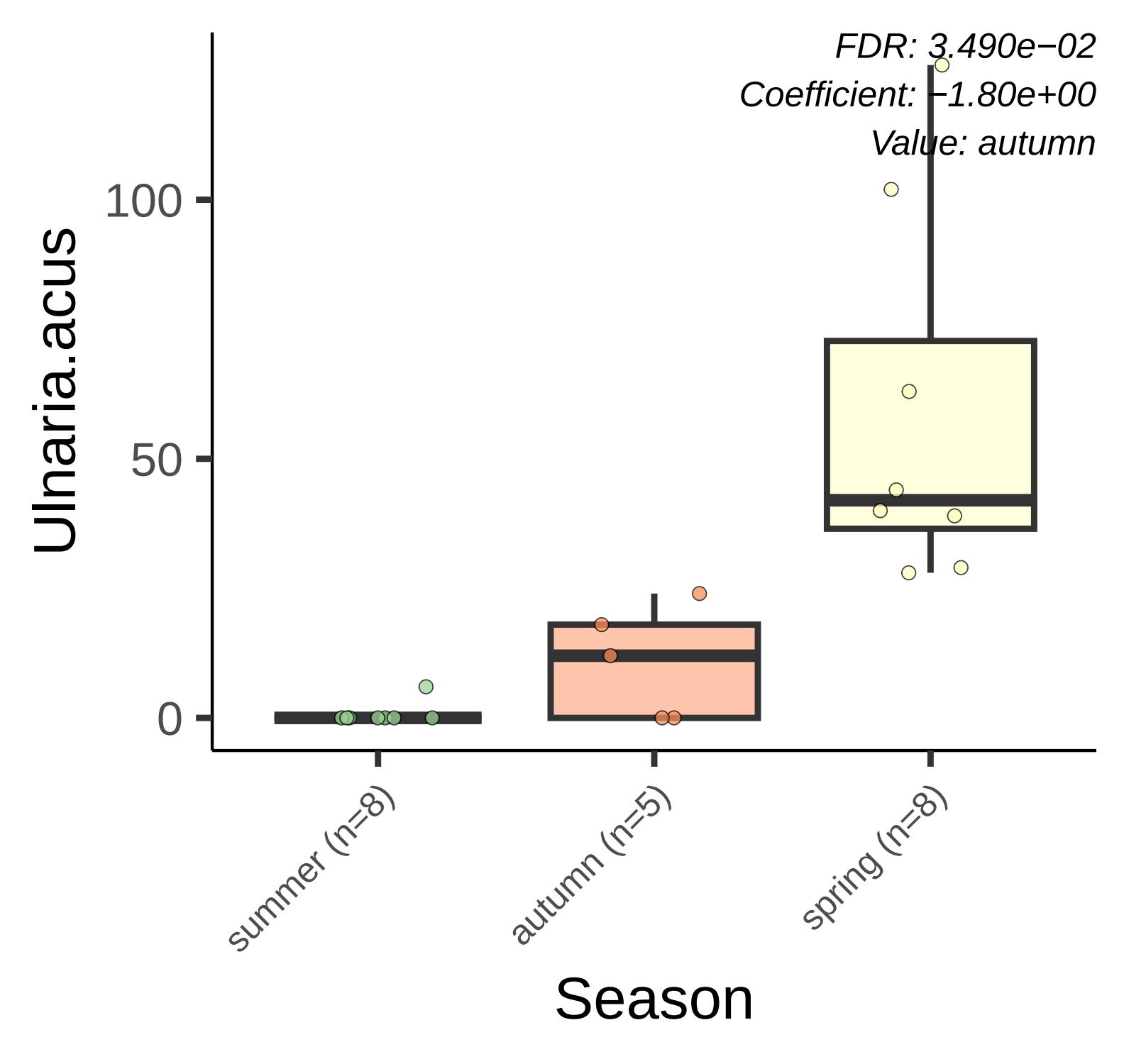

FDR: 3.324e−02
Coefficient: −1.87e+00
Value: autumn
Methylocapsa.acidiphila
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

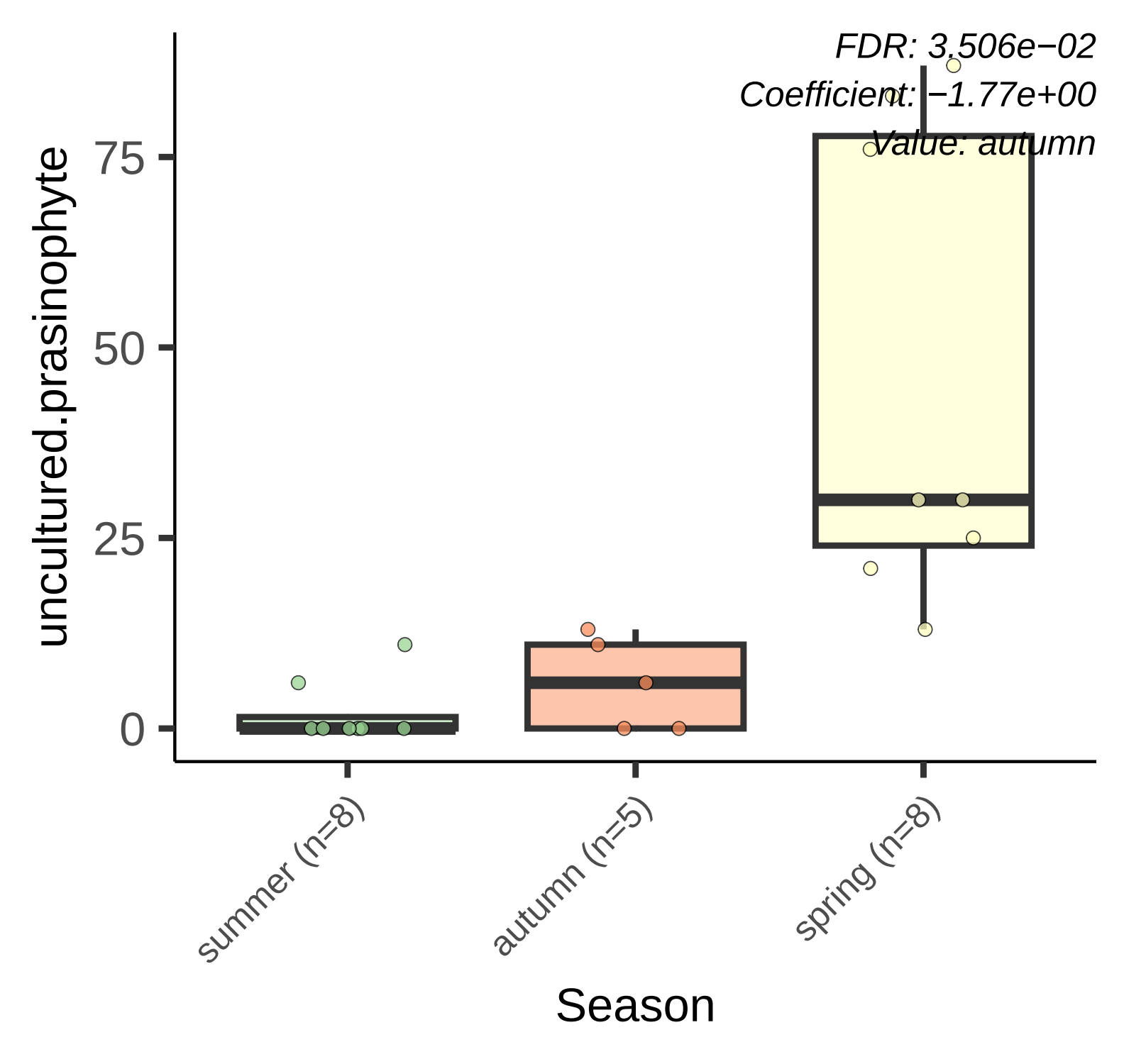

FDR: 3.324e−02
Coefficient: −1.98e+00
Value: autumn
Ilumatobacter.coccineus
2500
2000
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

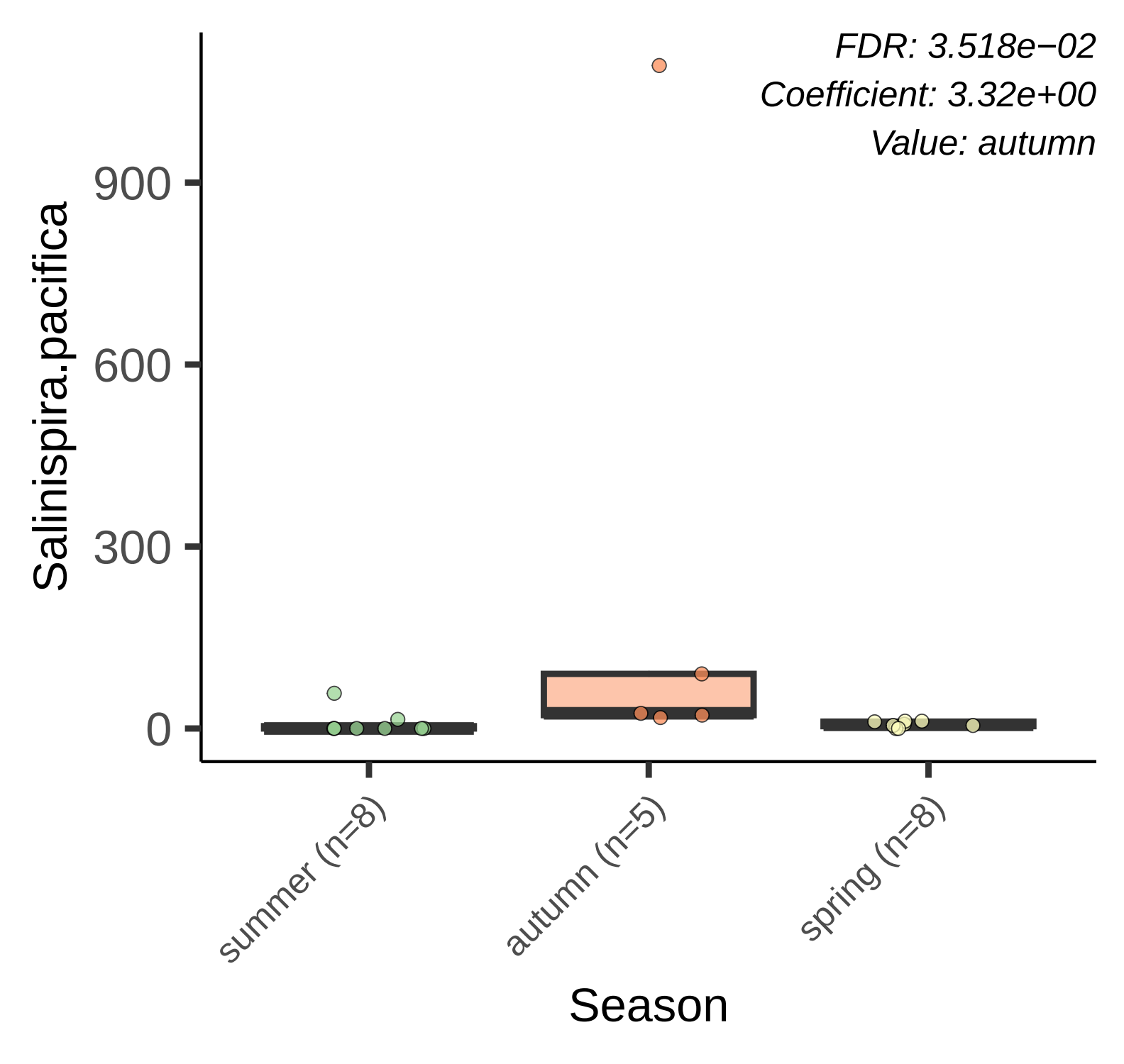

FDR: 3.327e−02
Coefficient: −1.16e+00
Value: autumn
Nocardia.farcinica
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

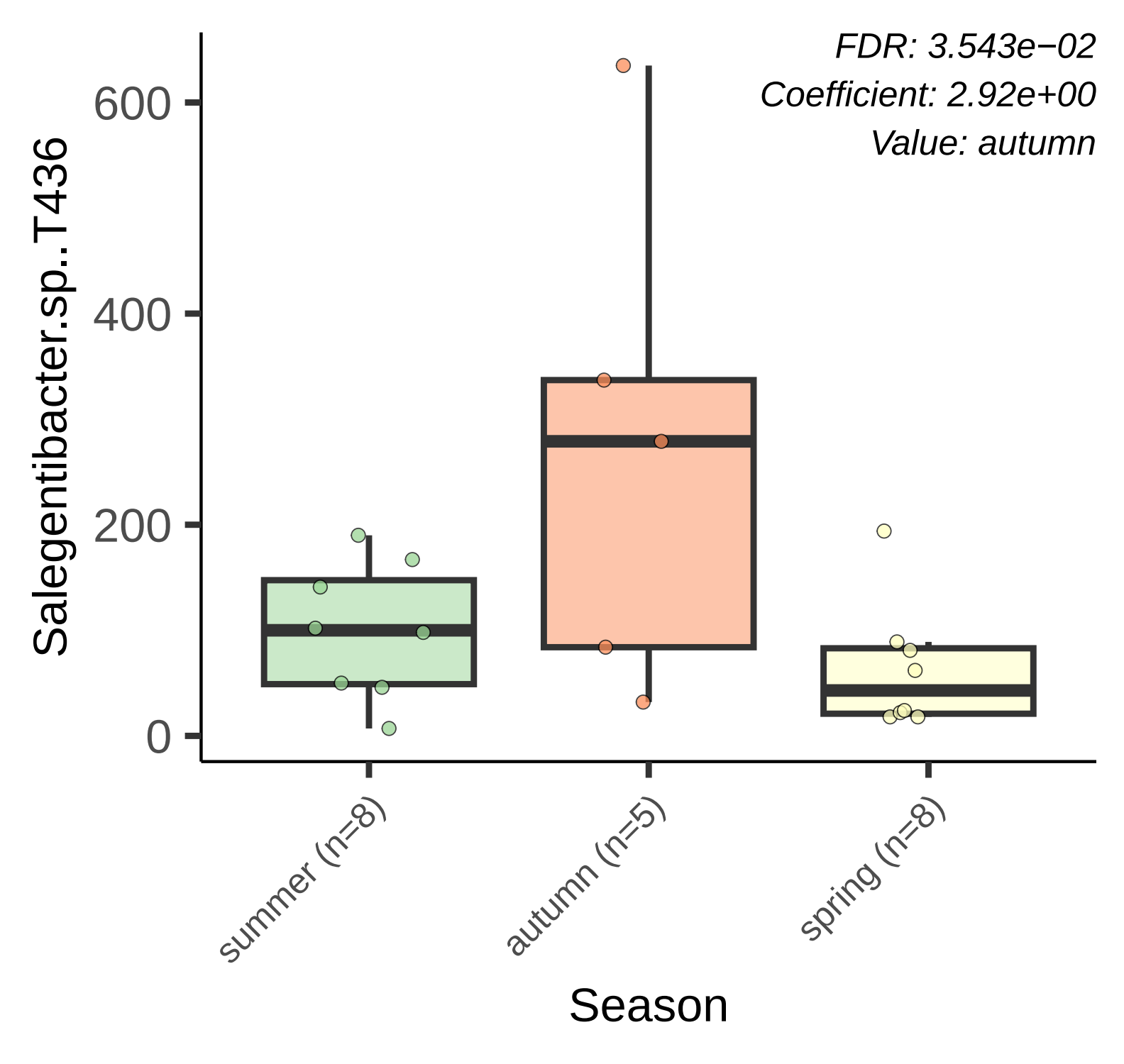

FDR: 3.327e−02
Coefficient: −1.58e+00
Value: autumn
uncultured.fungus
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

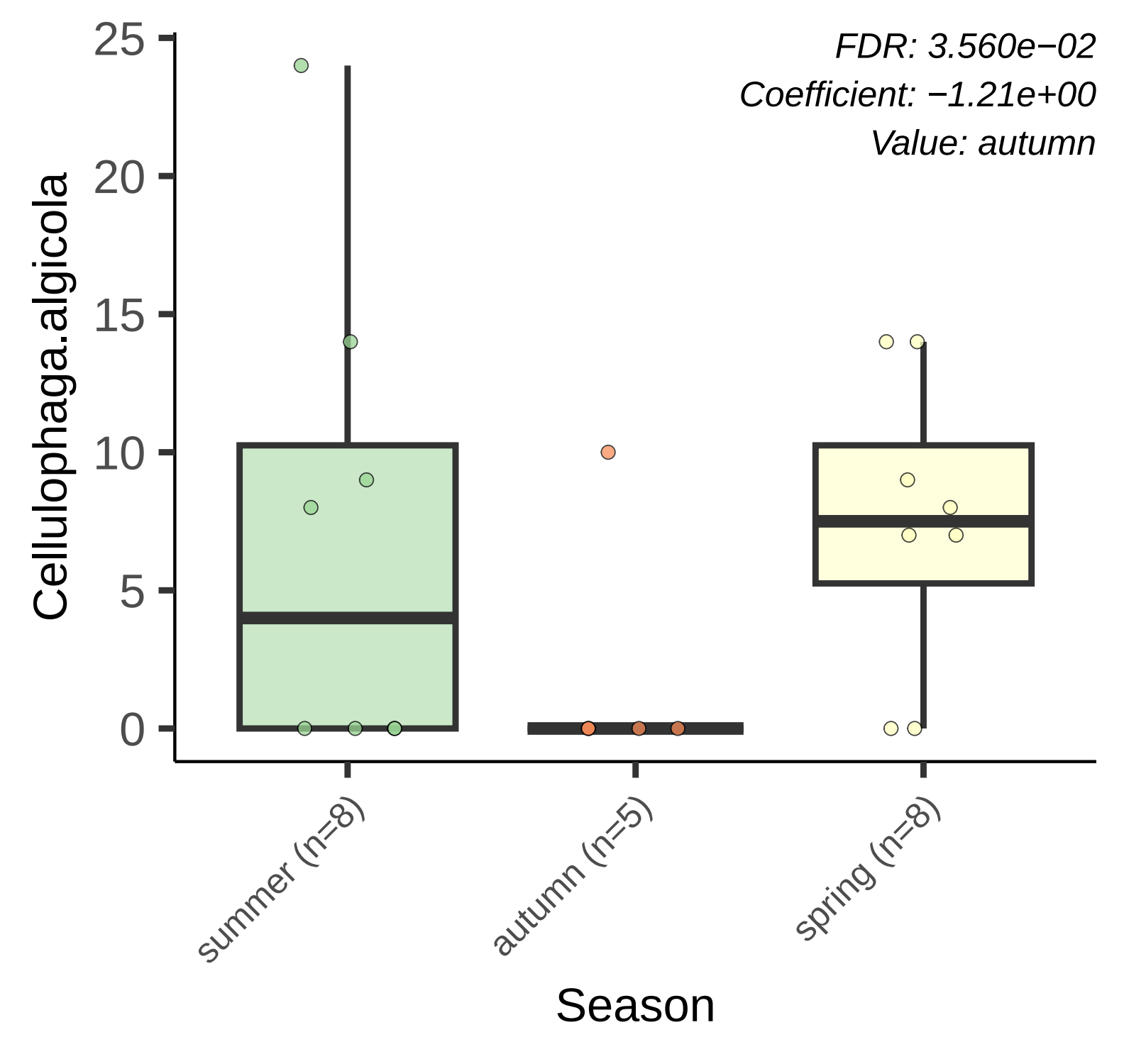

FDR: 3.329e−02
Coefficient: −1.64e+00
Value: autumn
uncultured.actinobacterium
250
200
150
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

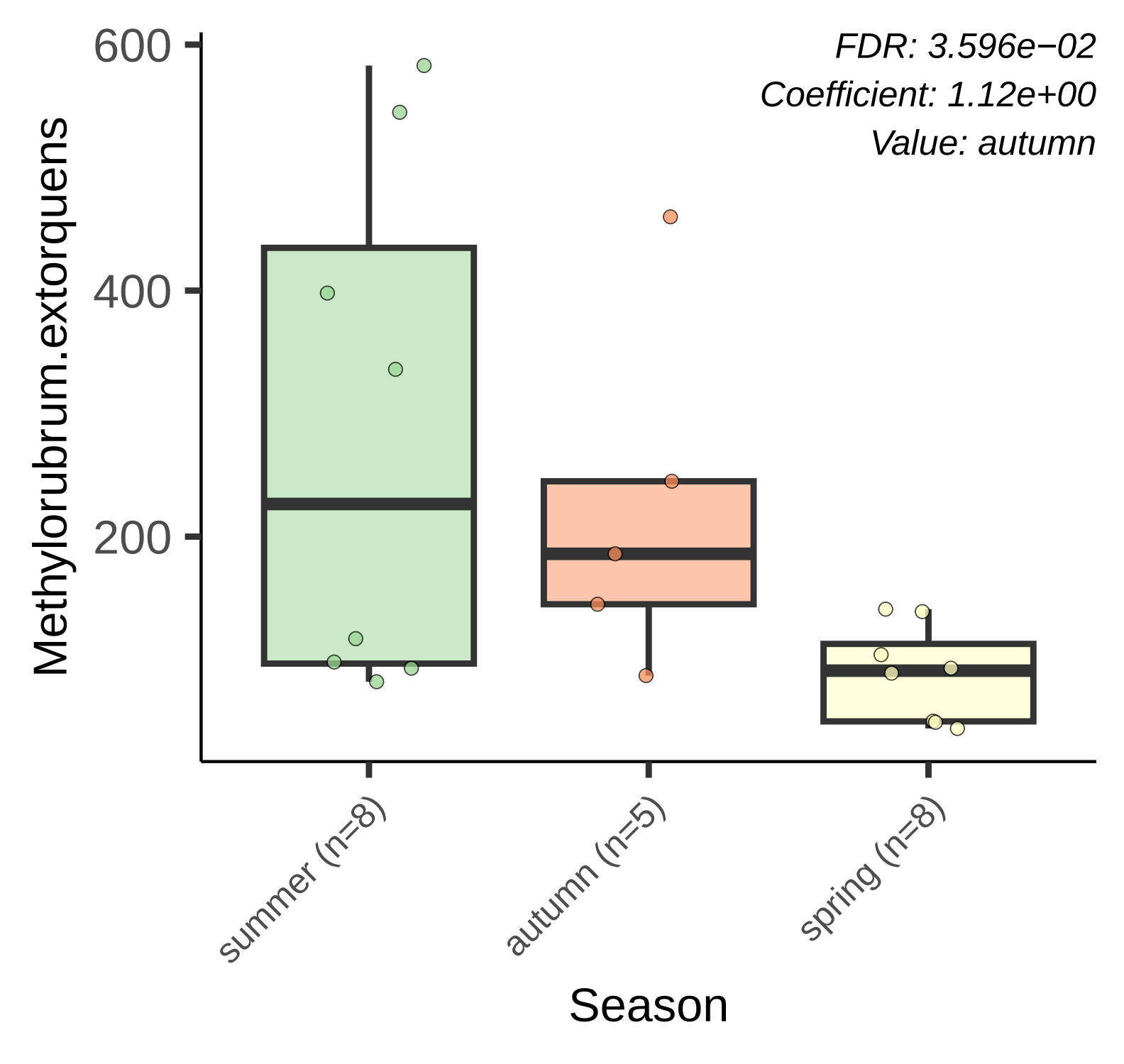

FDR: 3.490e−02
Coefficient: −1.80e+00
Value: autumn
Ulnaria.acus
100
50
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

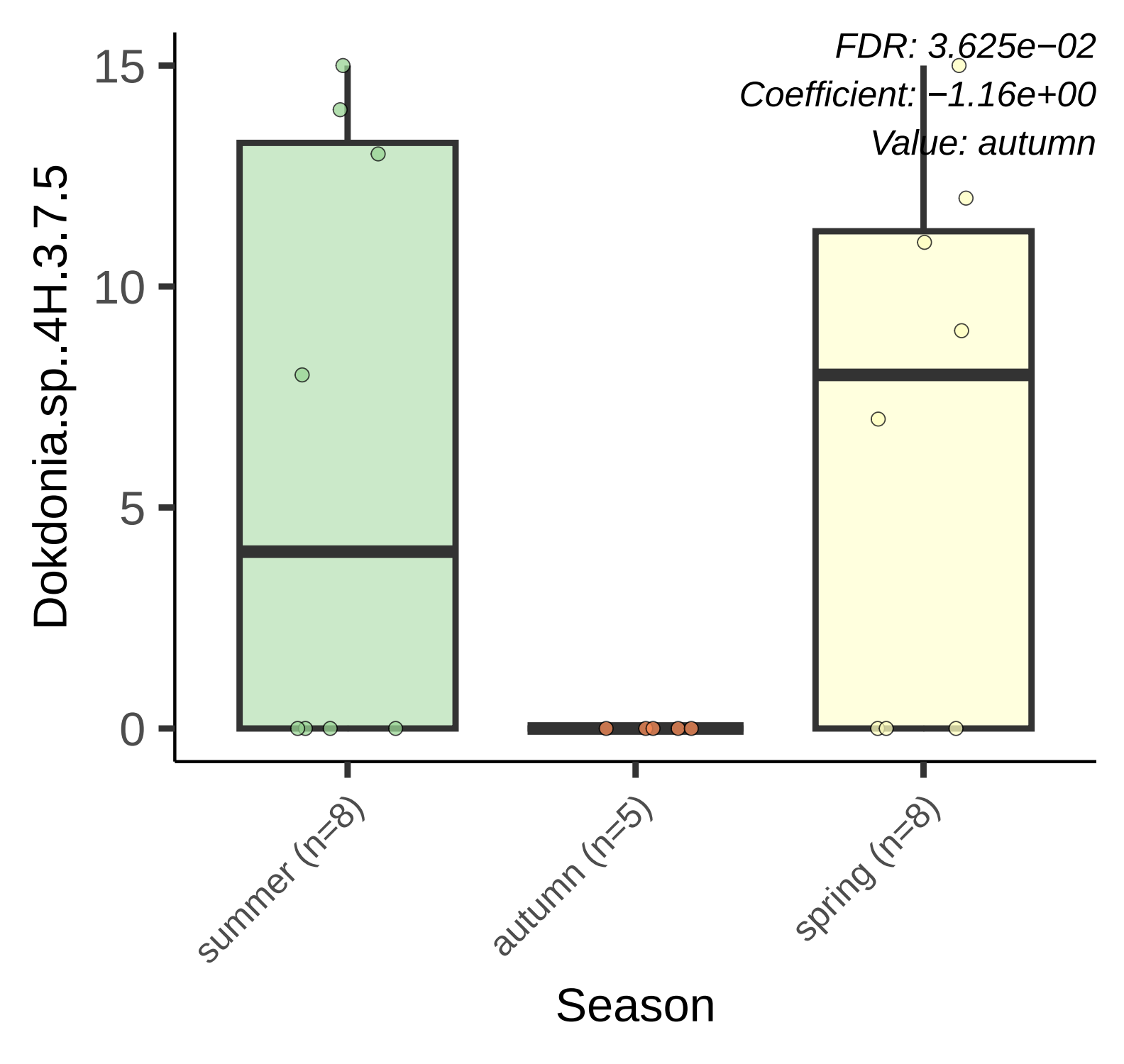

FDR: 3.506e−02
Coefficient: −1.77e+00
Value: autumn
uncultured.prasinophyte
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

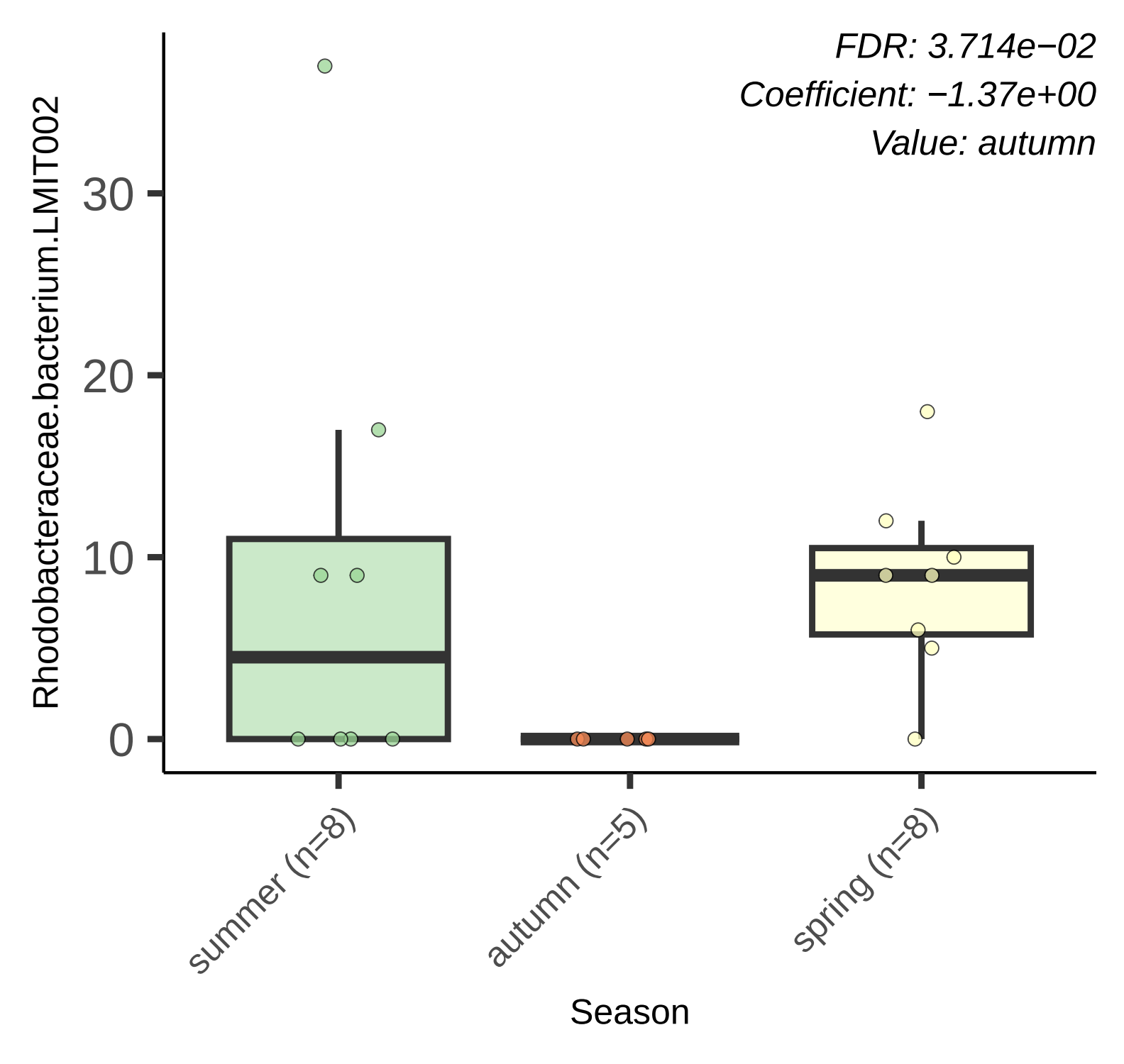

FDR: 3.518e−02
Coefficient: 3.32e+00
Value: autumn
Salinispira.pacifica
900
600
300
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

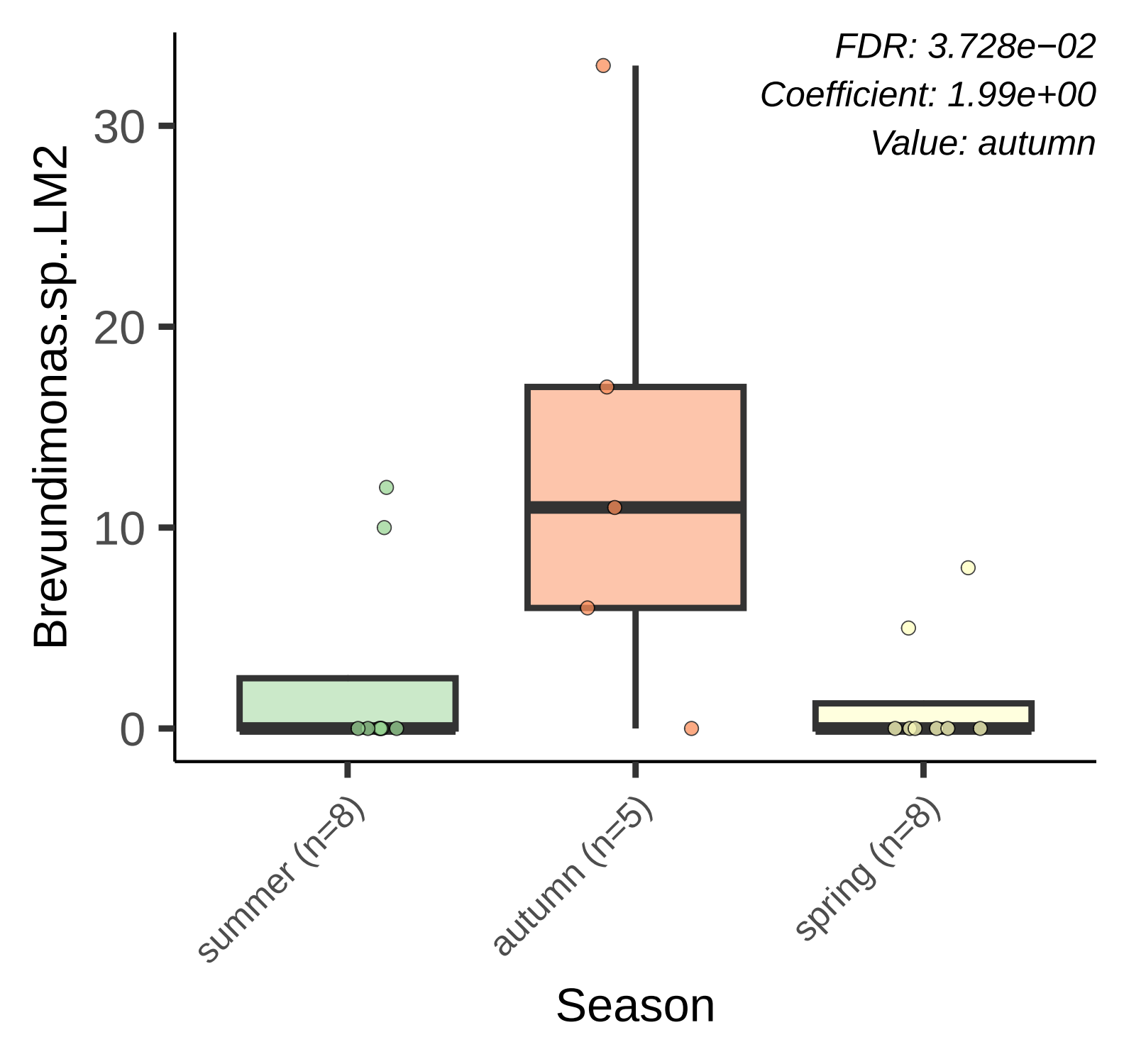

FDR: 3.543e−02
Coefficient: 2.92e+00
Value: autumn
Salegentibacter.sp..T436
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

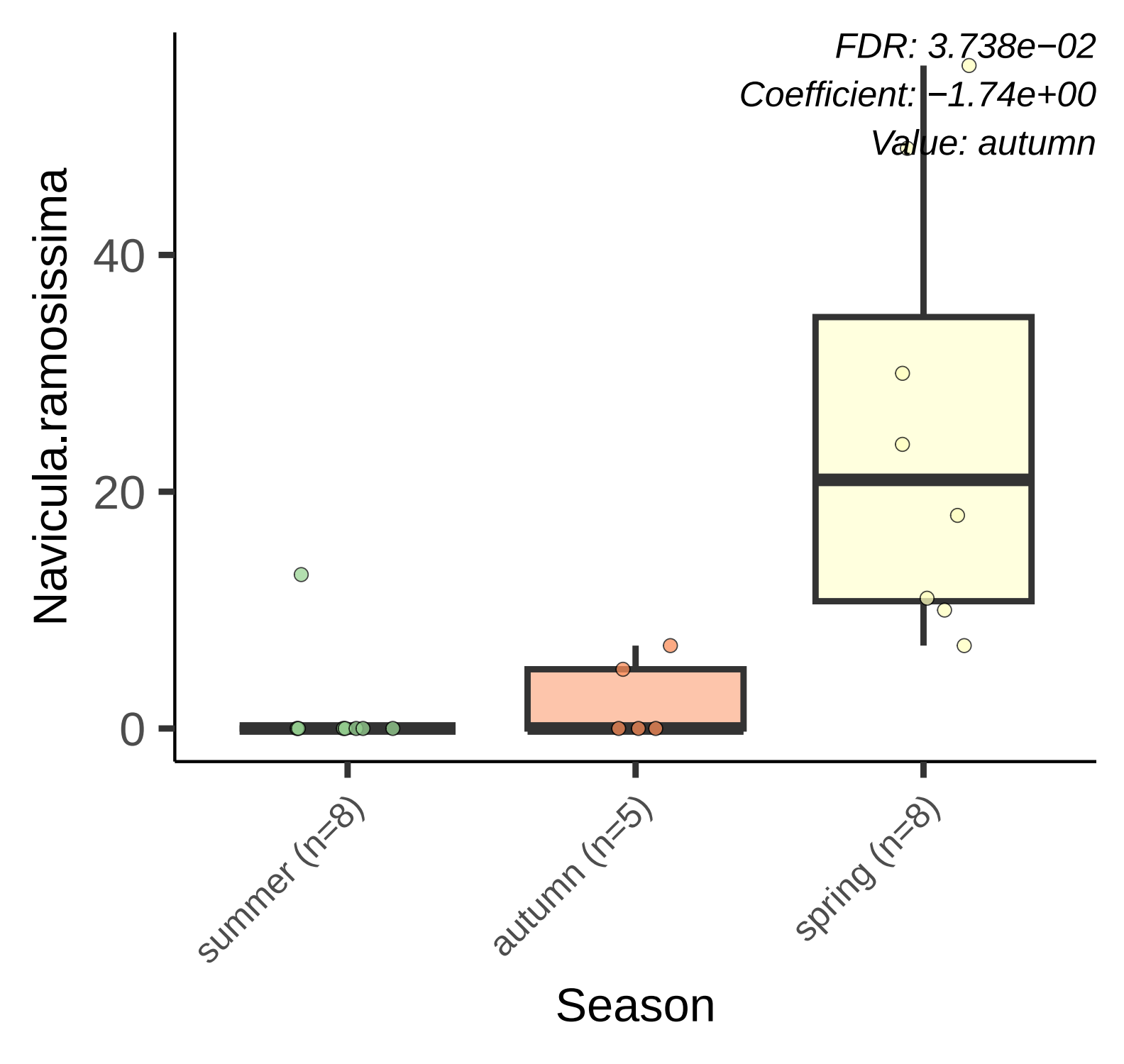

FDR: 3.560e−02
Coefficient: −1.21e+00
Value: autumn
Cellulophaga.algicola
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

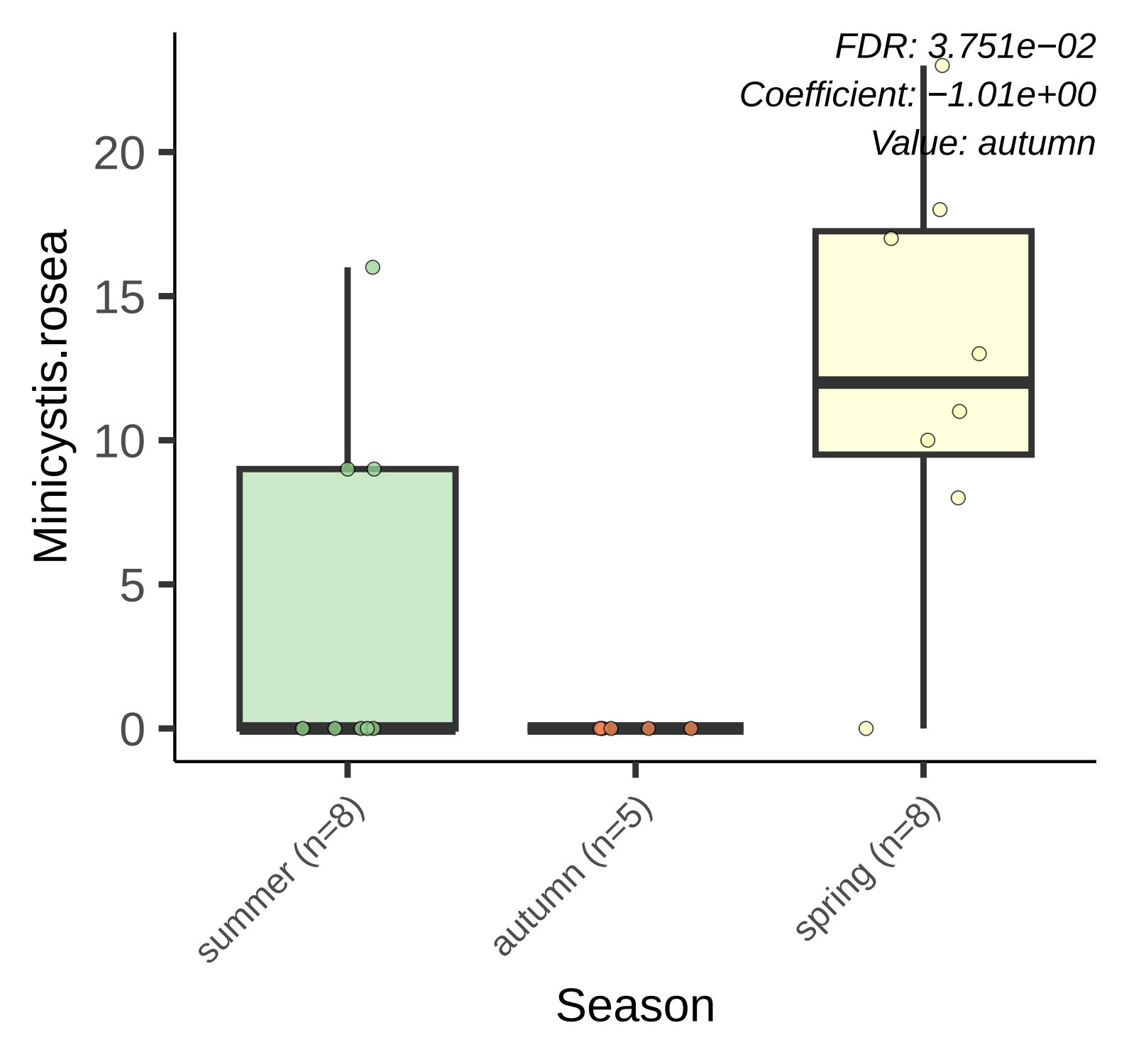

FDR: 3.596e−02
Coefficient: 1.12e+00
Value: autumn
600
400
200
Methylorubrum.extorquens
summer (n=8)
autumn (n=5)
spring (n=8)
Season

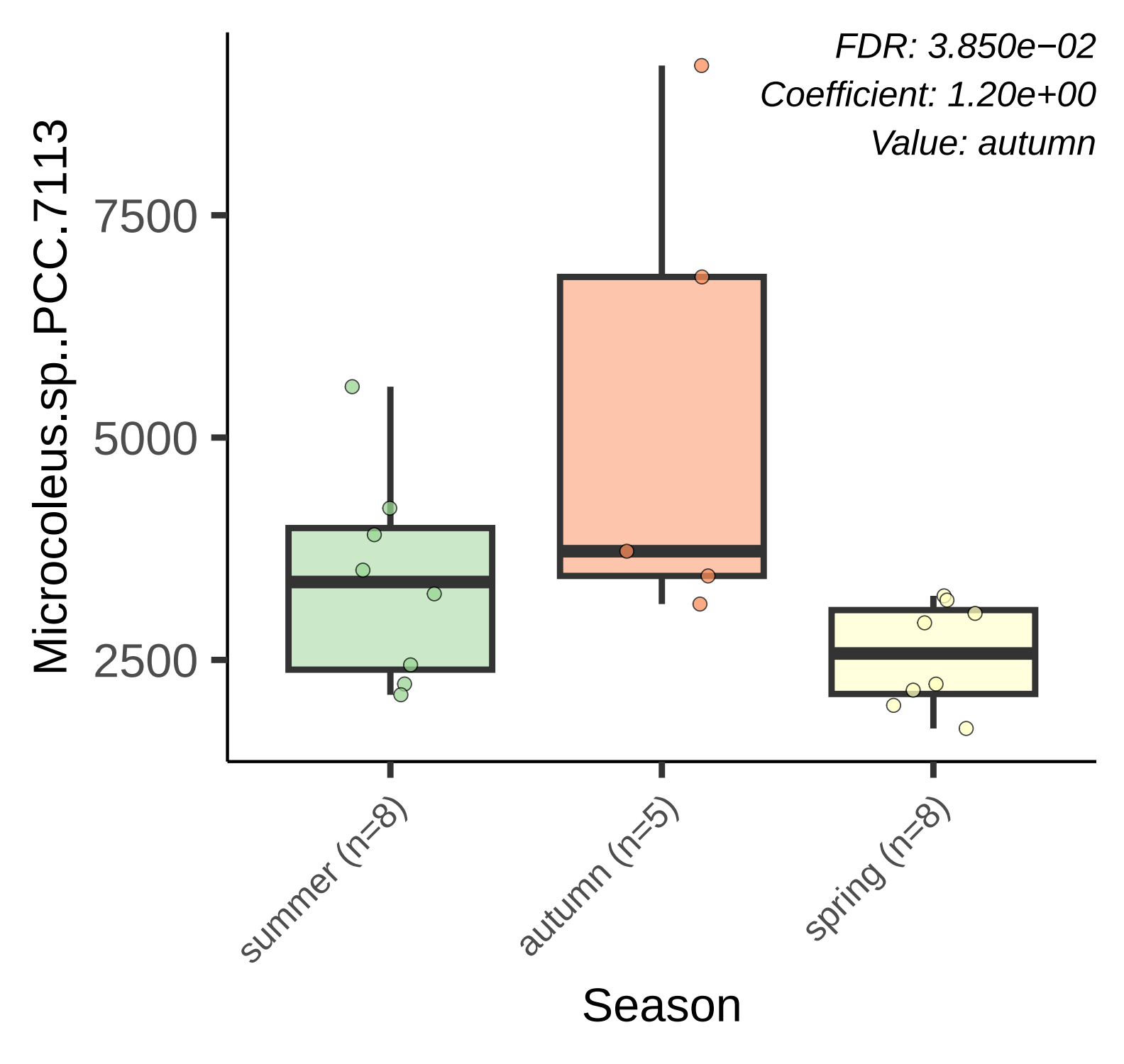

FDR: 3.625e−02
Coefficient: −1.16e+00
Value: autumn
Dokdonia.sp..4H.3.7.5
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

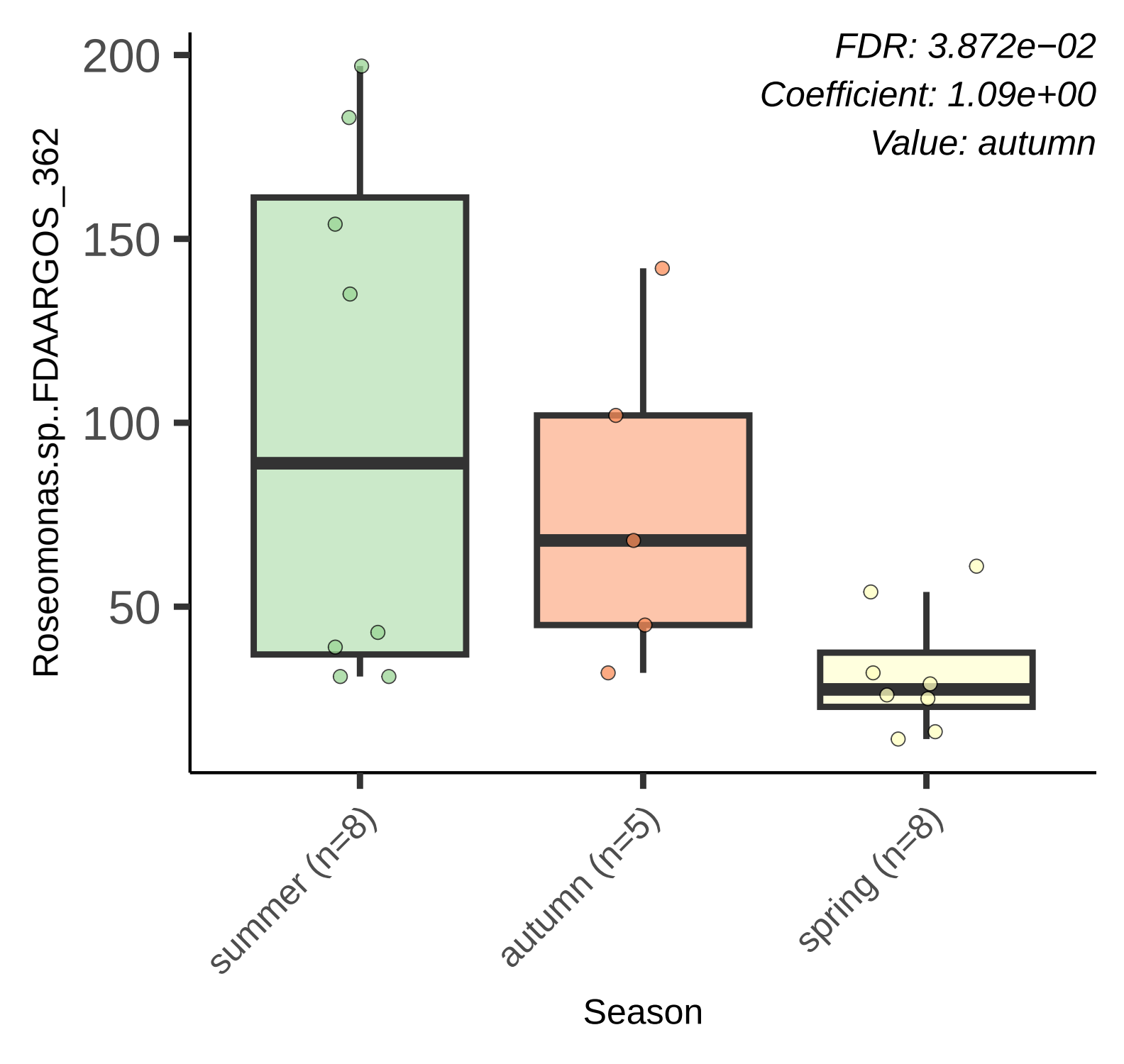

FDR: 3.714e−02
Coefficient: −1.37e+00
Value: autumn
Rhodobacteraceae.bacterium.LMIT002
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

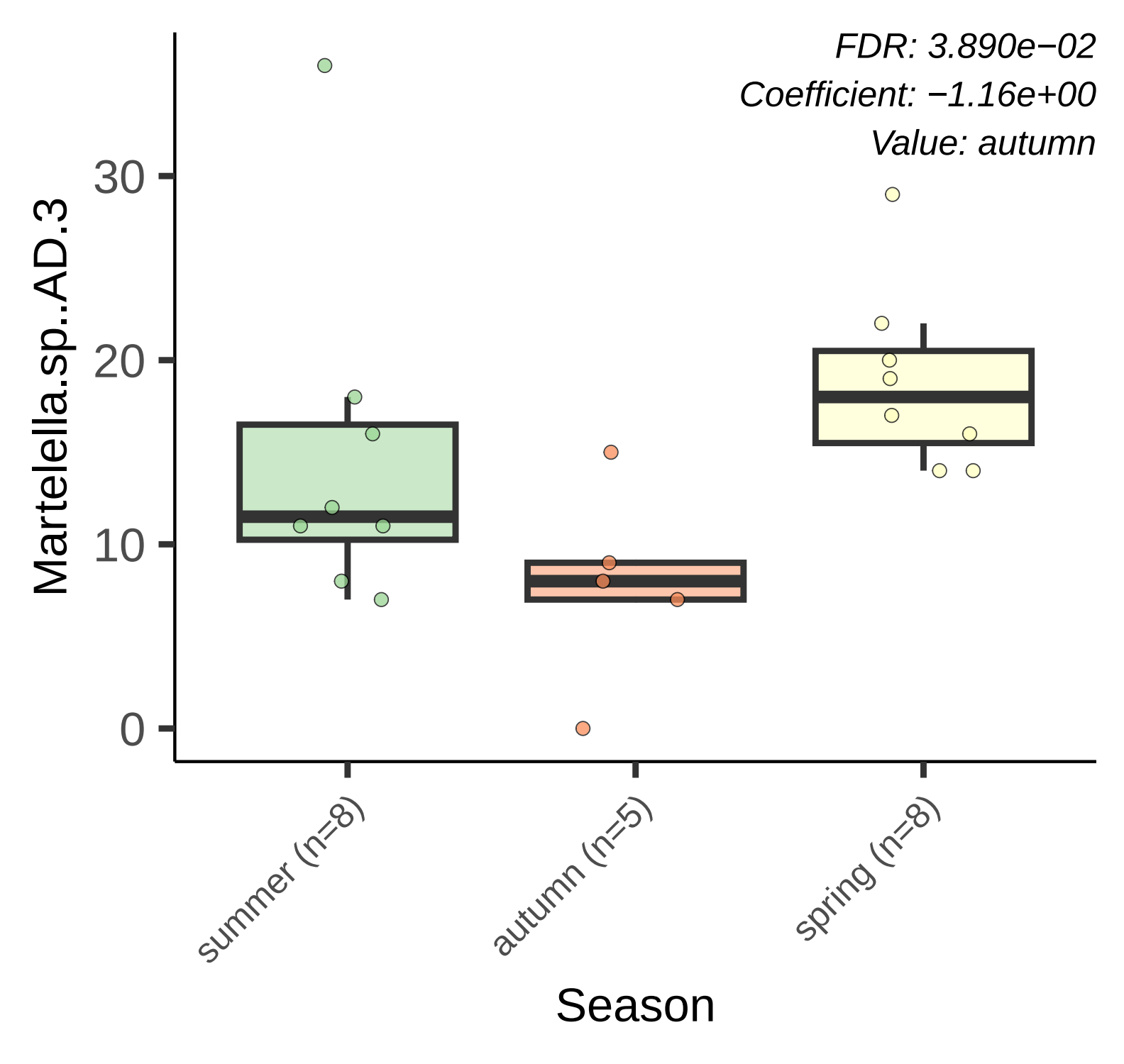

FDR: 3.728e−02
Coefficient: 1.99e+00
Value: autumn
Brevundimonas.sp..LM2
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

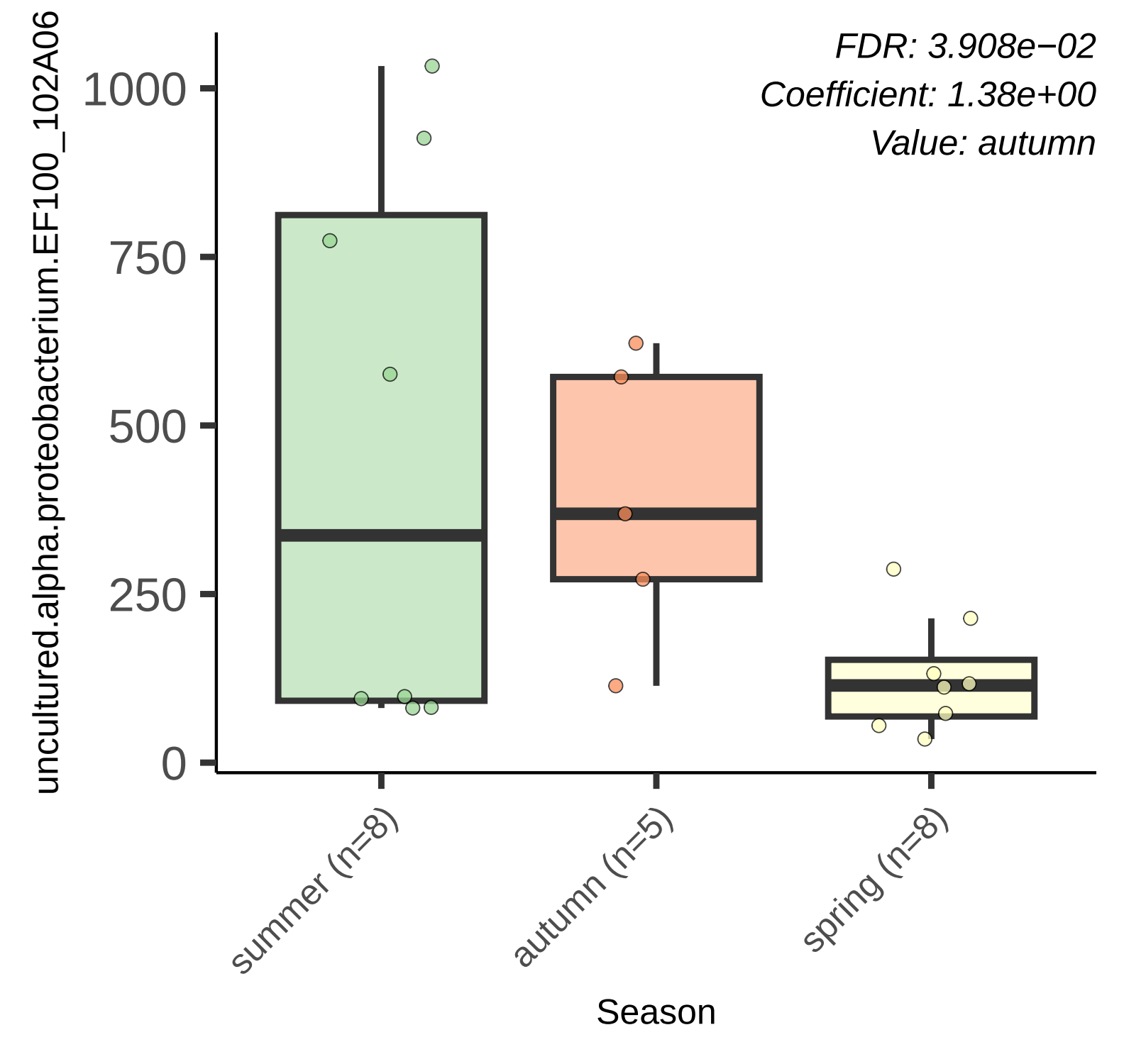

FDR: 3.738e−02
Coefficient: −1.74e+00
Value: autumn
Navicula.ramosissima
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

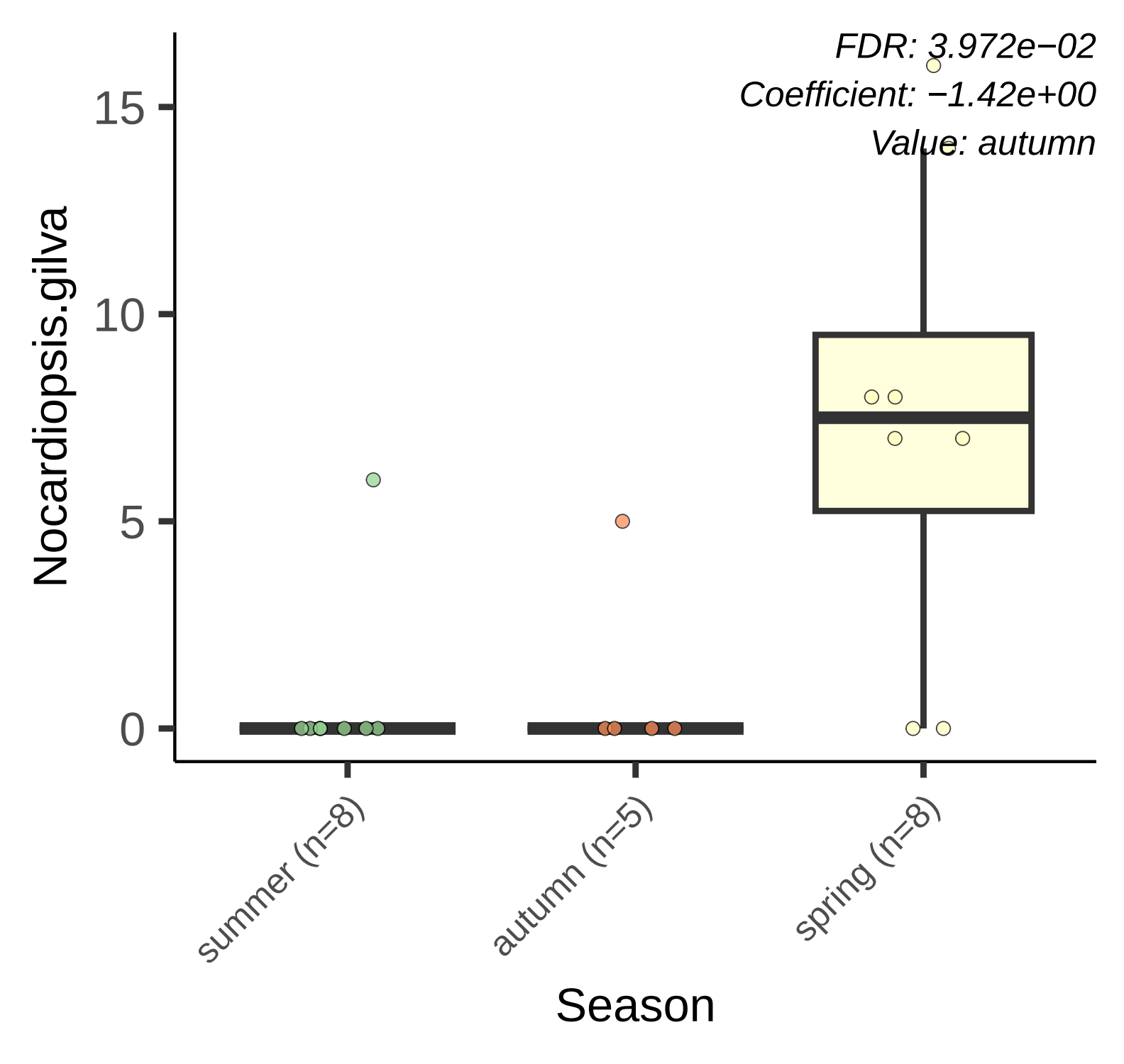

FDR: 3.751e−02
Coefficient: −1.01e+00
Value: autumn
Minicystis.rosea
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

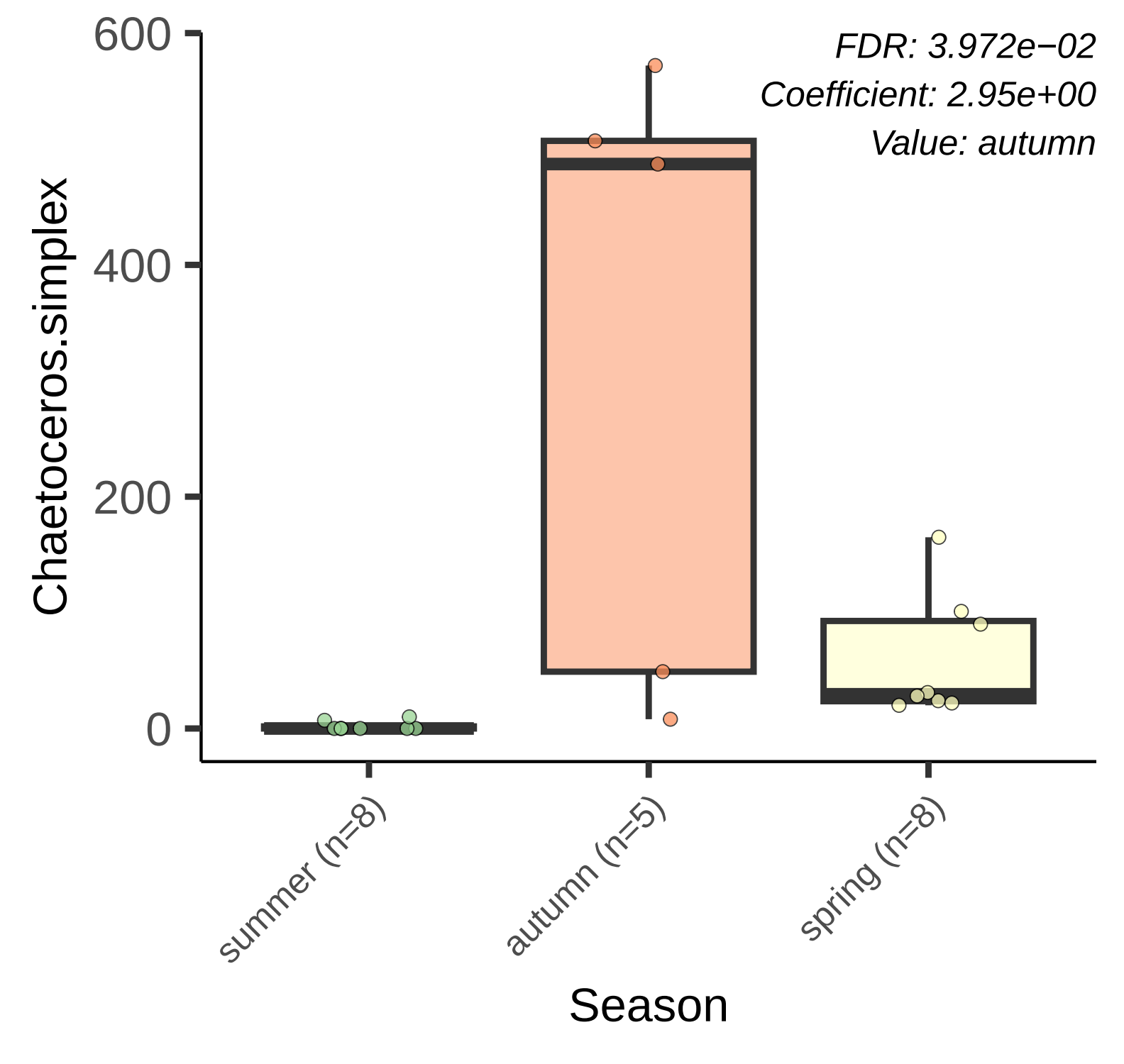

FDR: 3.850e−02
Coefficient: 1.20e+00
Value: autumn
Microcoleus.sp..PCC.7113
7500
5000
2500
summer (n=8)
autumn (n=5)
spring (n=8)
Season

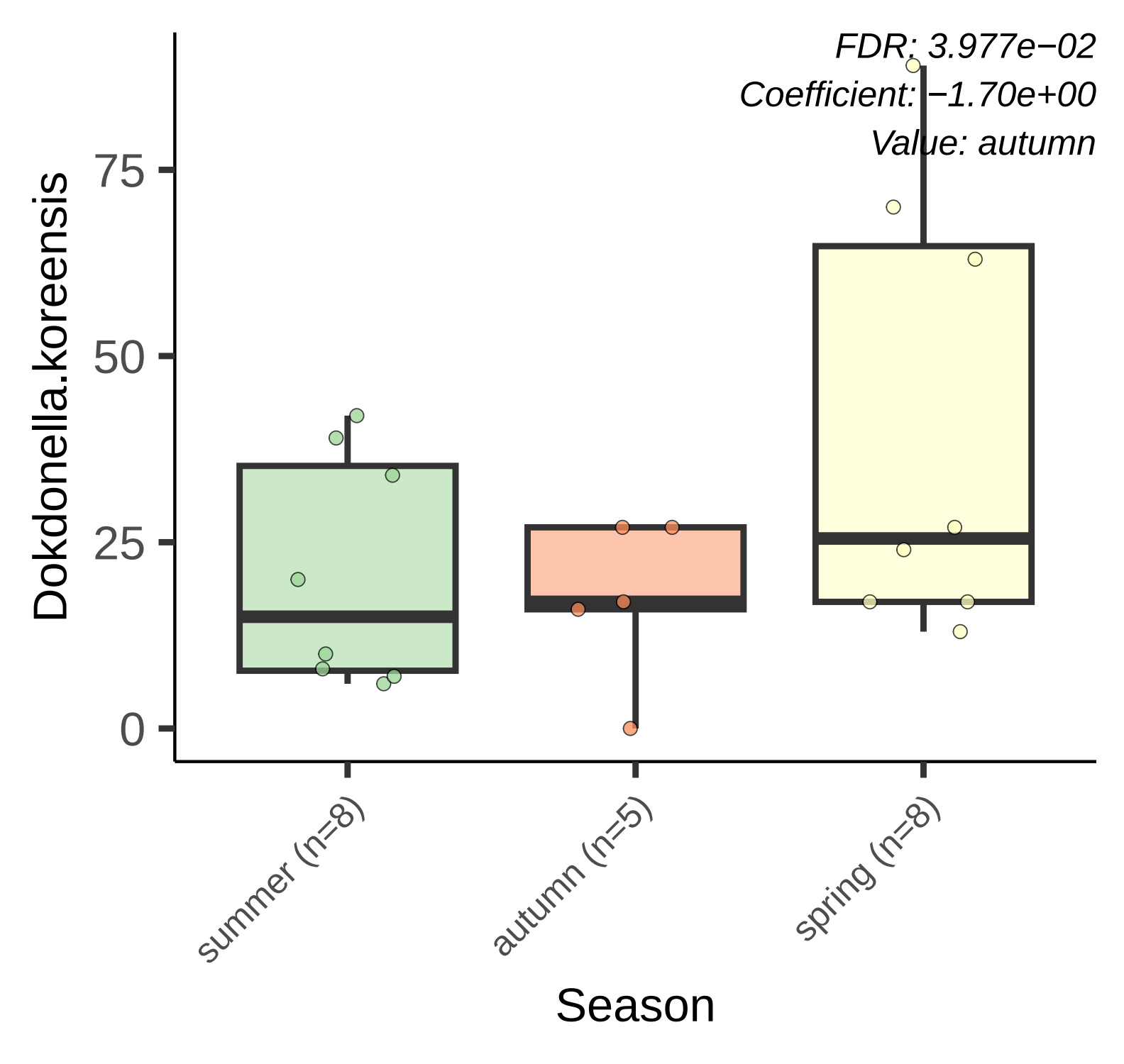

FDR: 3.872e−02
Coefficient: 1.09e+00
Value: autumn
Roseomonas.sp..FDAARGOS_362
200
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

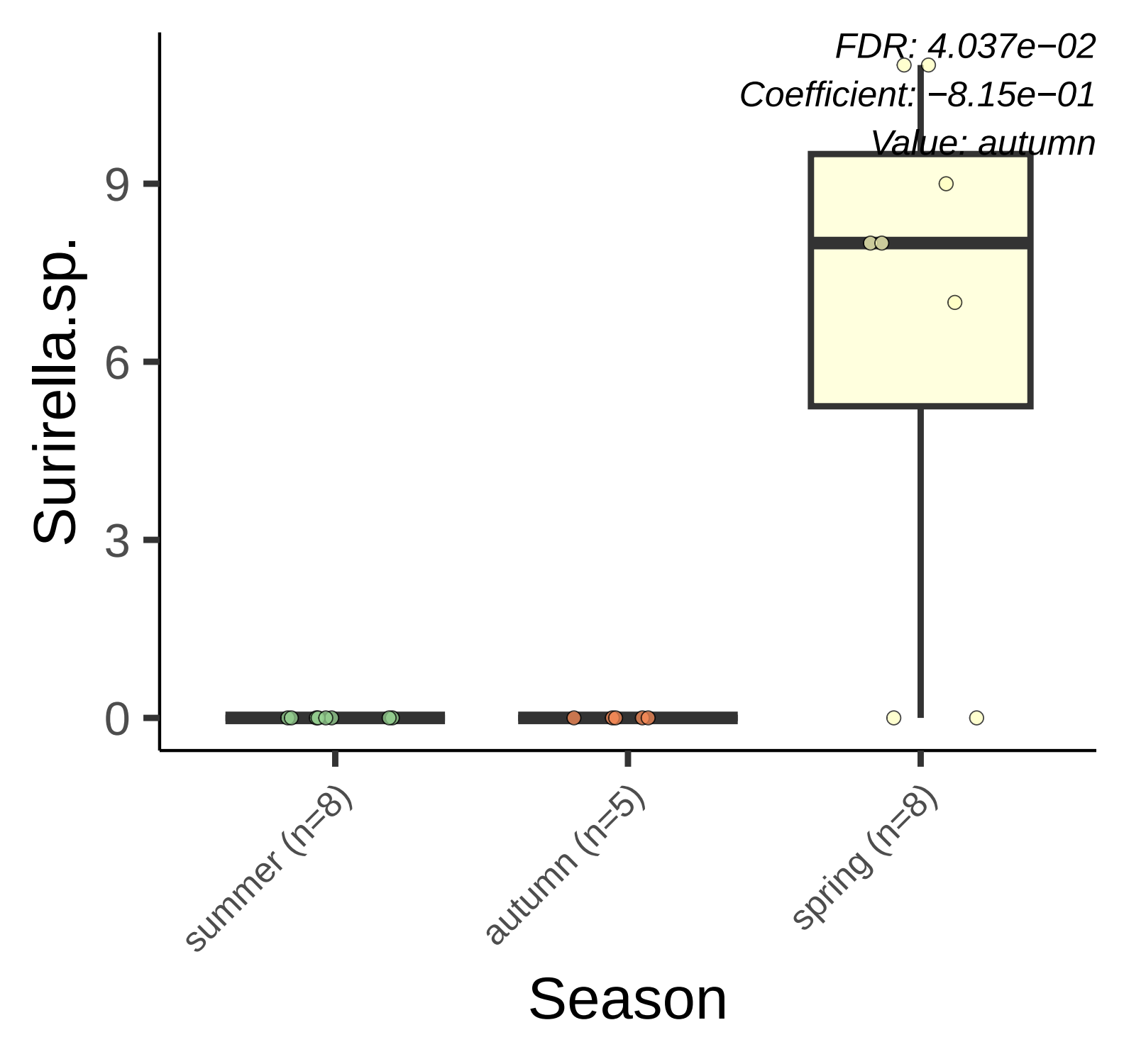

FDR: 3.890e−02
Coefficient: −1.16e+00
Value: autumn
Martelella.sp..AD.3
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

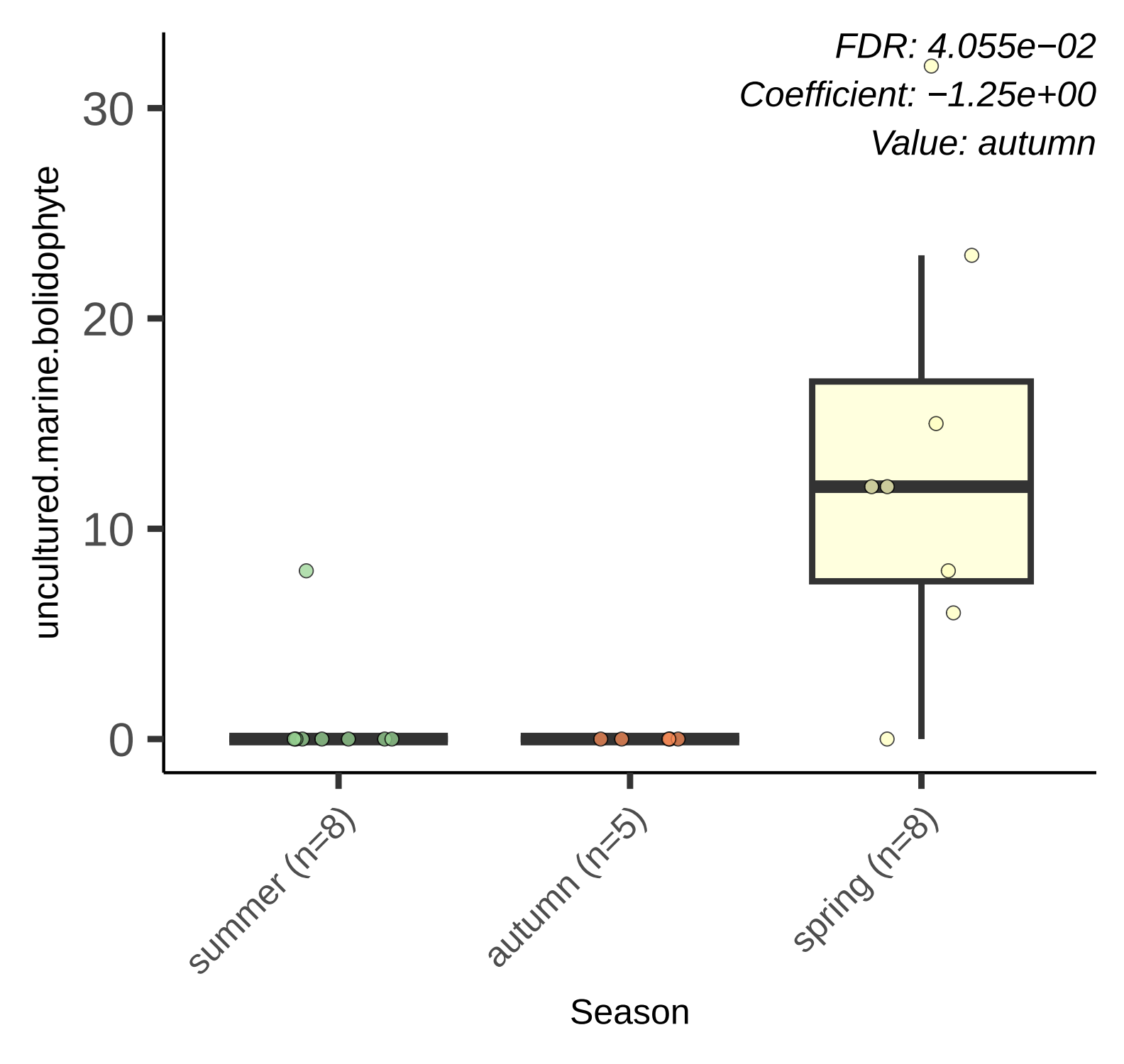

FDR: 3.908e−02
Coefficient: 1.38e+00
Value: autumn
uncultured.alpha.proteobacterium.EF100_102A06
1000
750
500
250
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

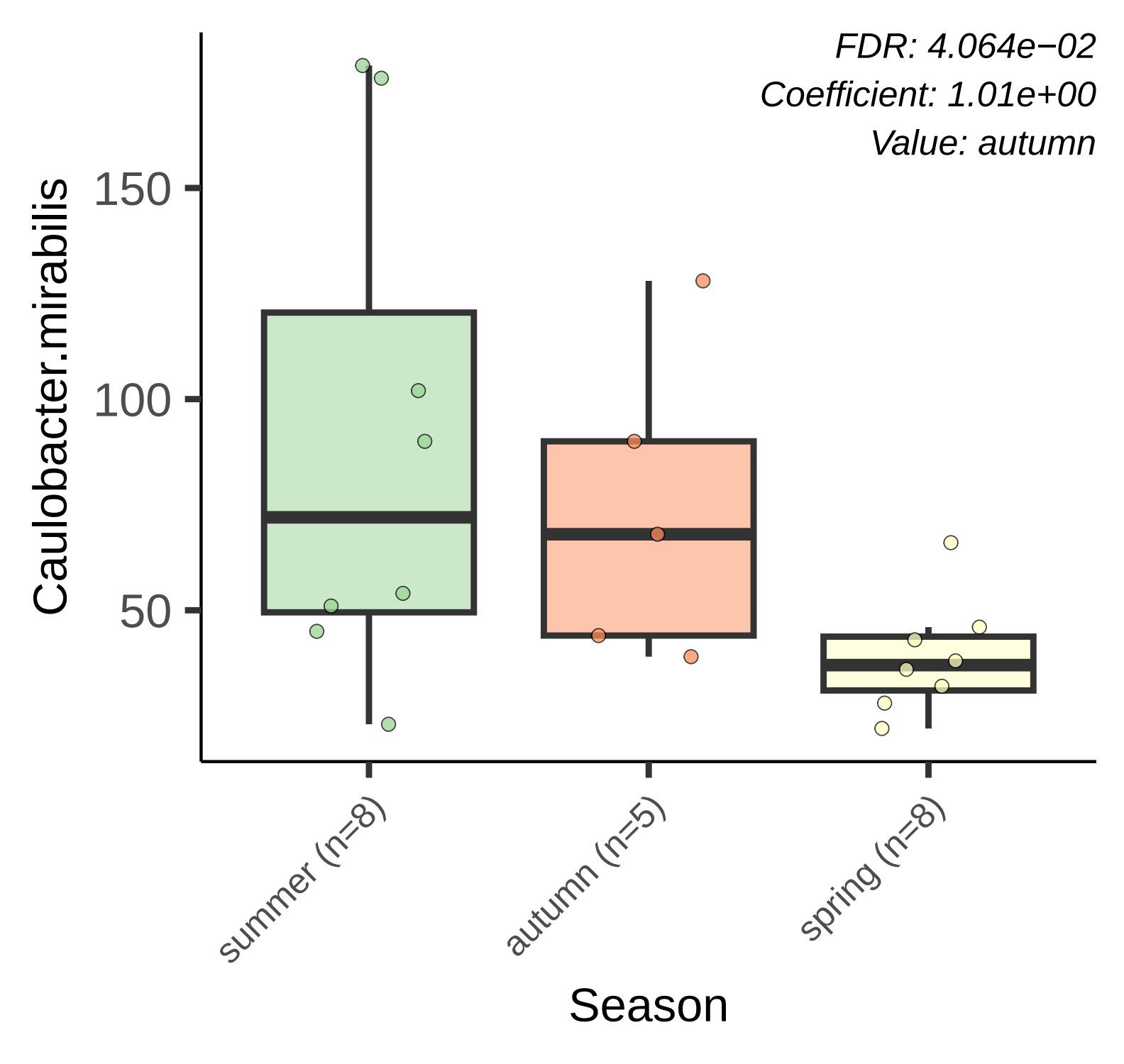

FDR: 3.972e−02
Coefficient: −1.42e+00
Value: autumn
Nocardiopsis.gilva
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

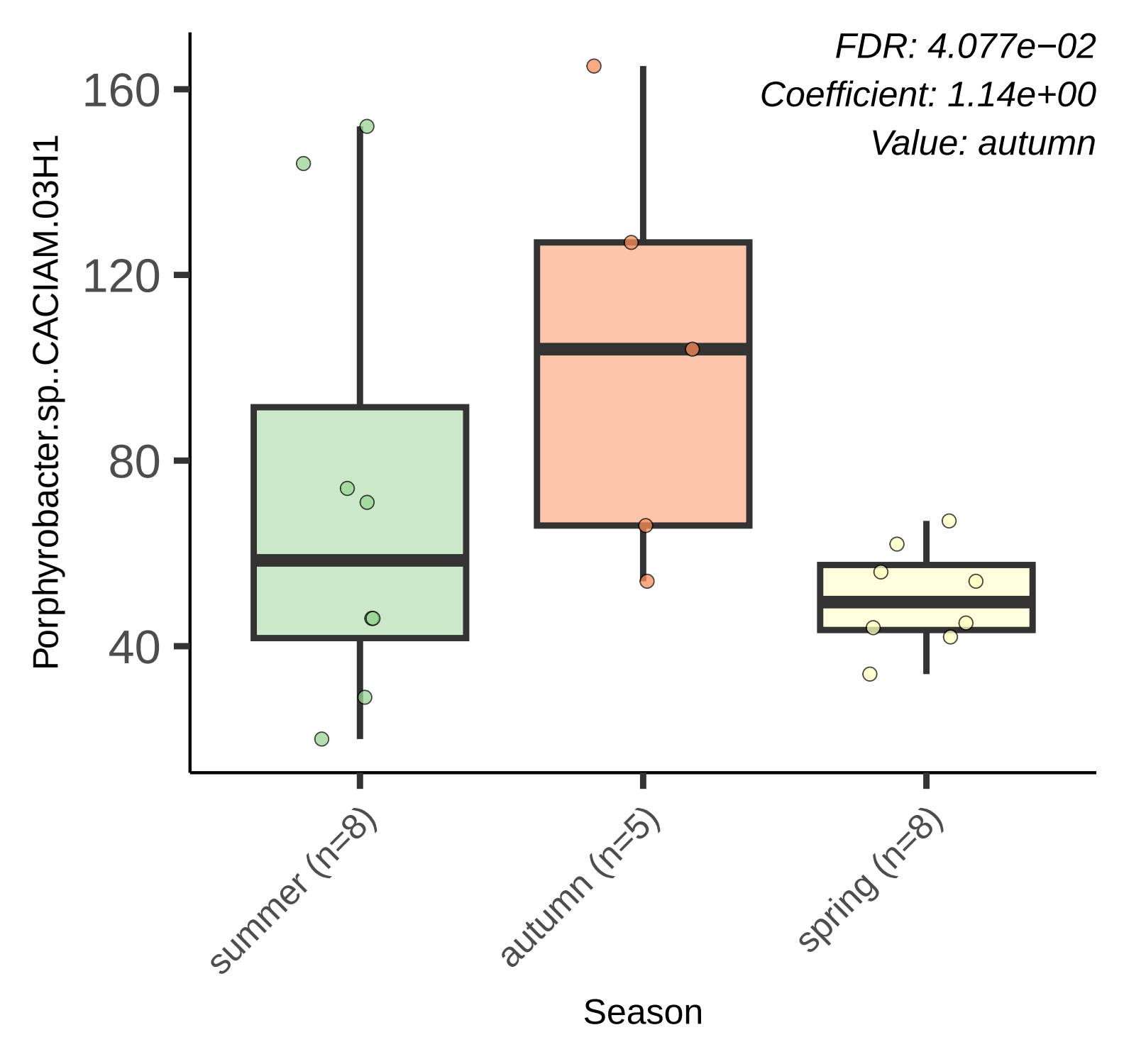

FDR: 3.972e−02
Coefficient: 2.95e+00
Value: autumn
Chaetoceros.simplex
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

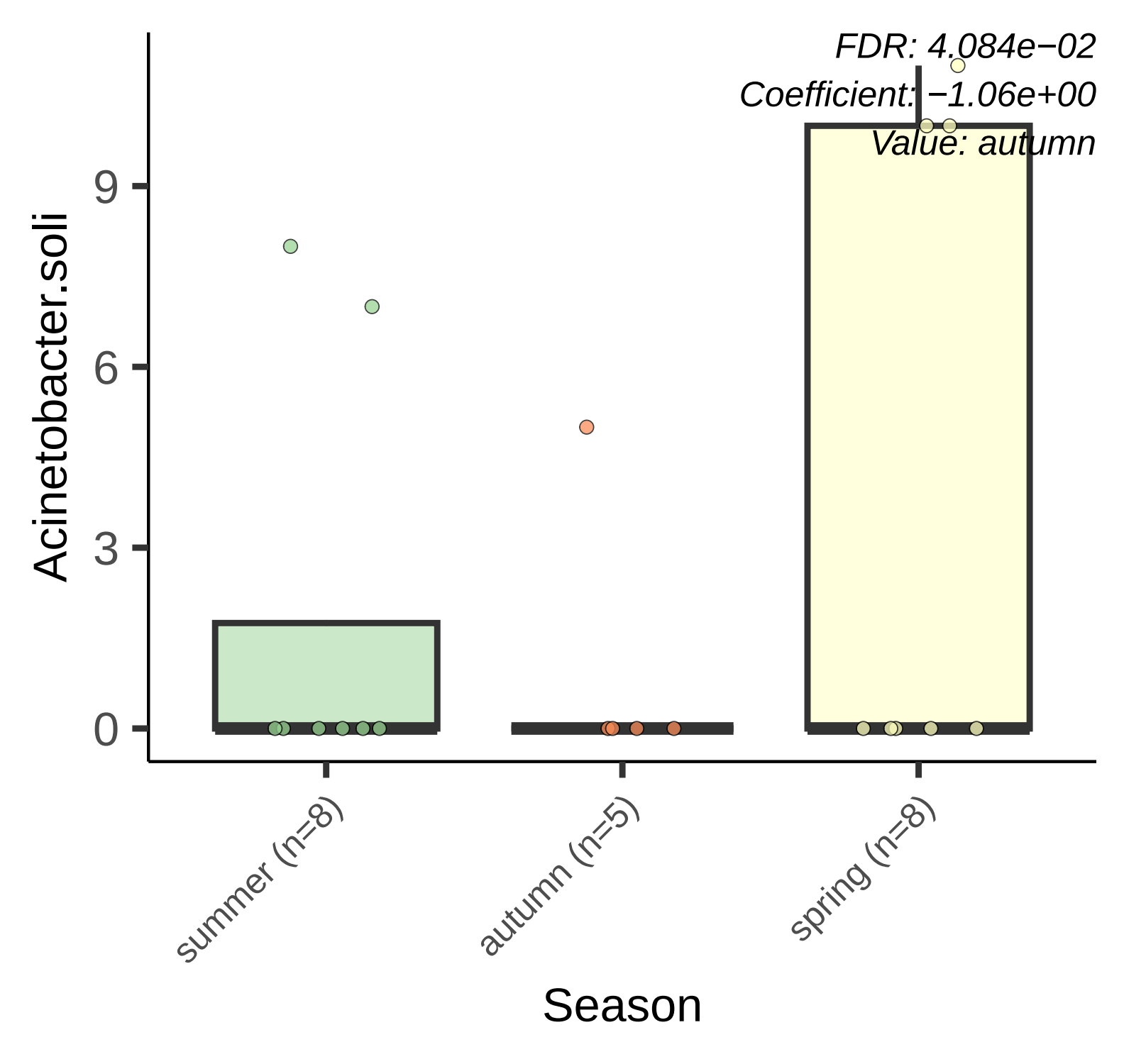

FDR: 3.977e−02
Coefficient: −1.70e+00
Value: autumn
Dokdonella.koreensis
75
50
25
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

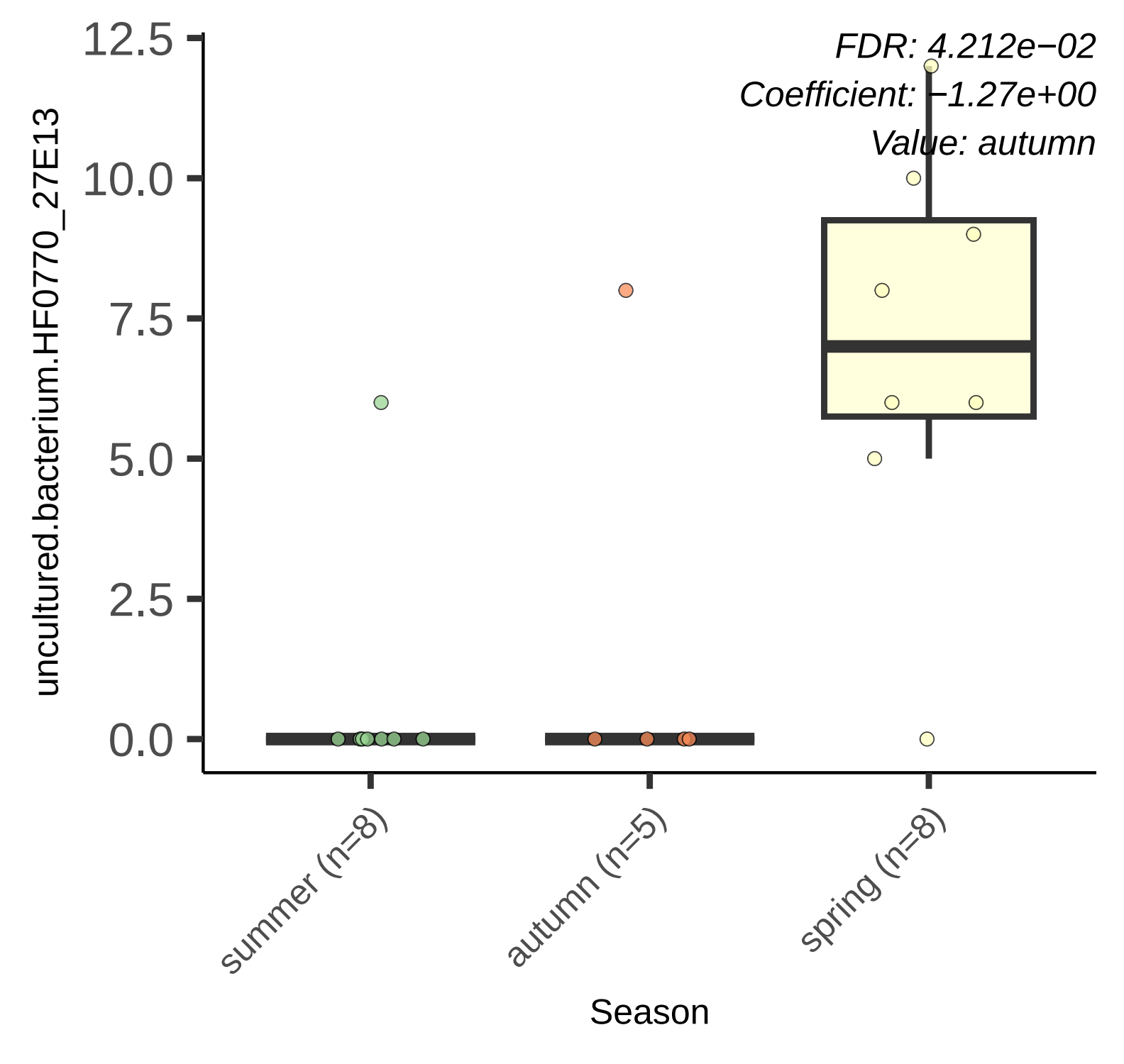

FDR: 4.037e−02
Coefficient: −8.15e−01
Value: autumn
Surirella.sp.
9
6
3
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

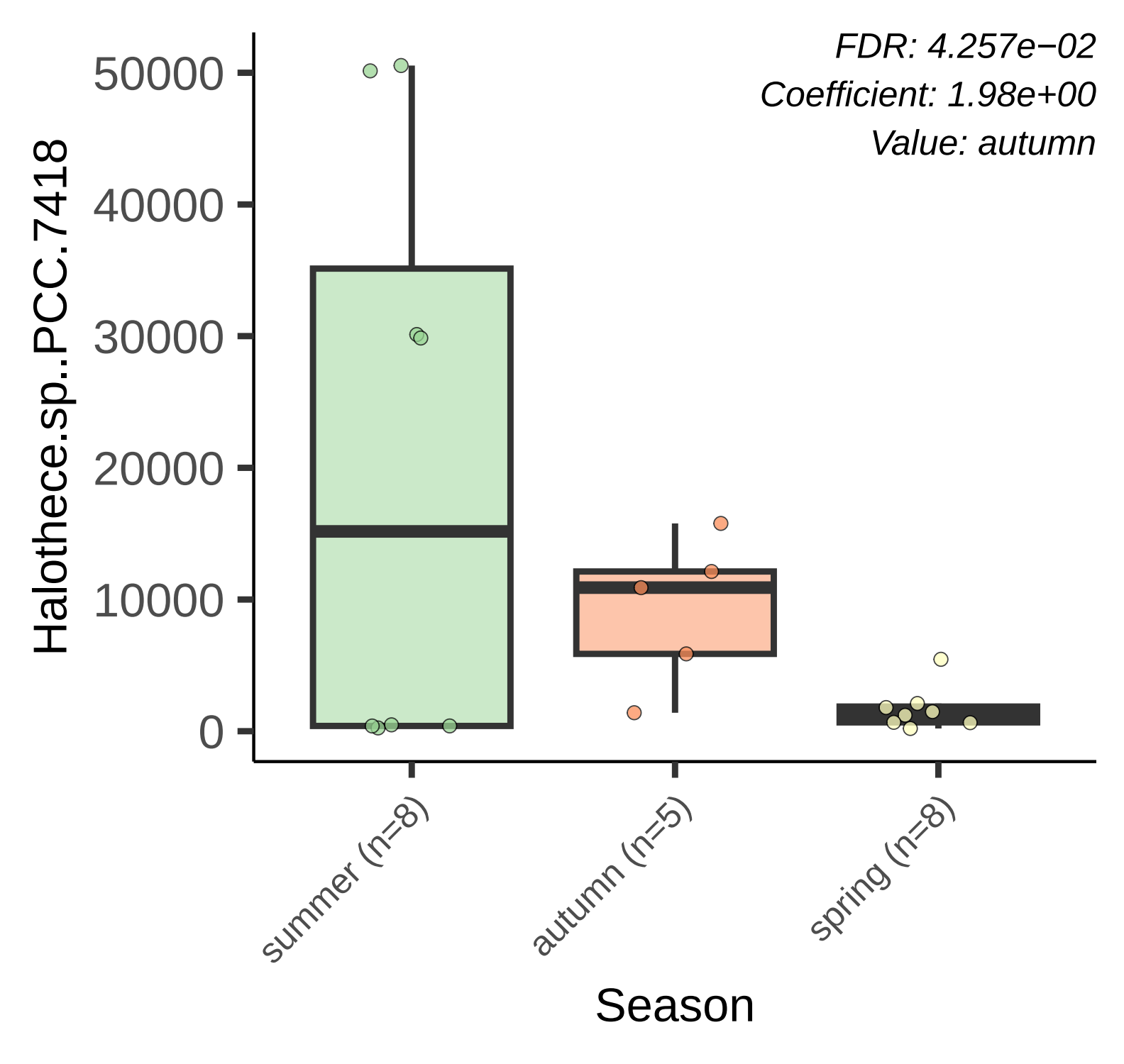

FDR: 4.055e−02
Coefficient: −1.25e+00
Value: autumn
uncultured.marine.bolidophyte
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

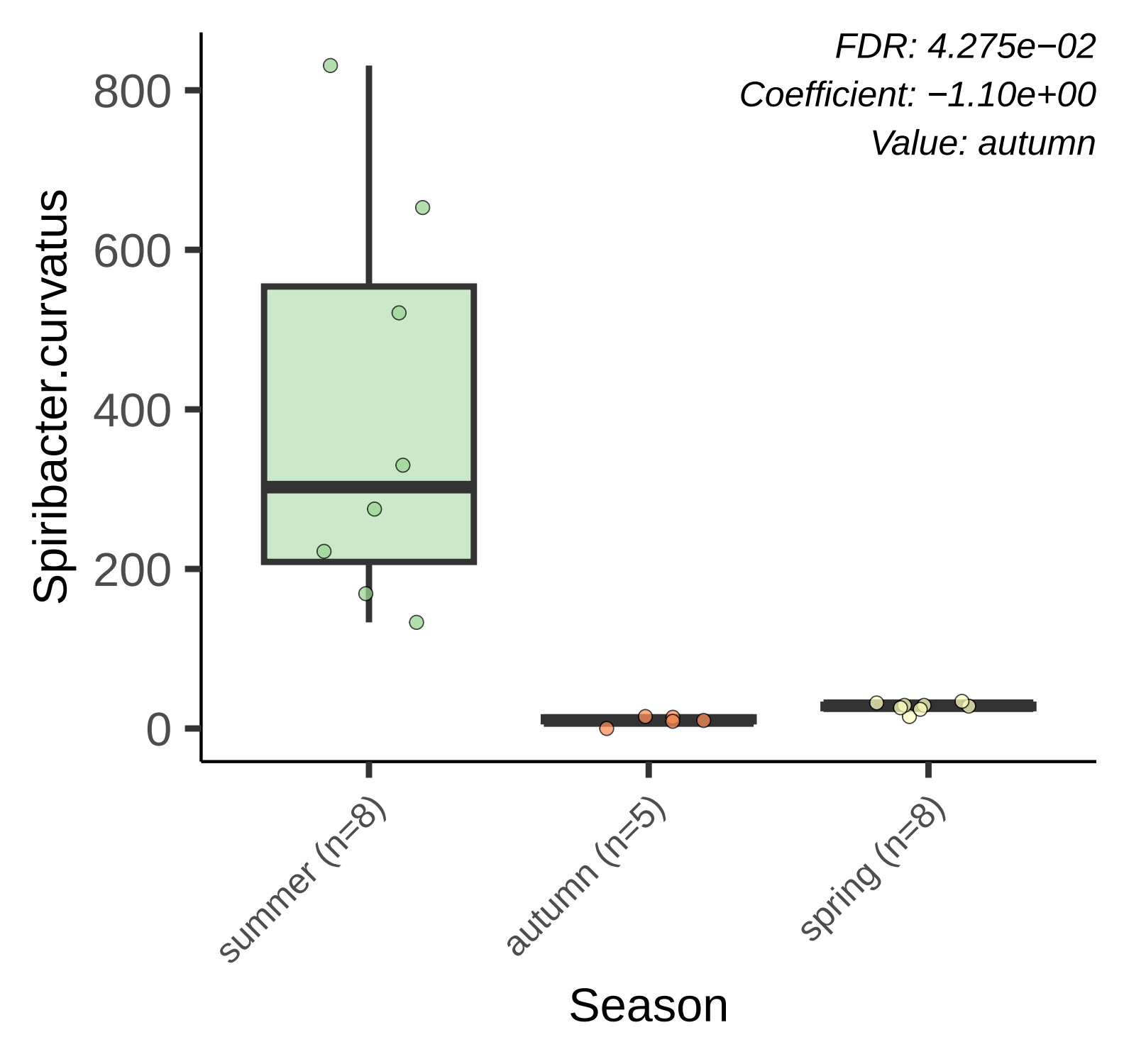

FDR: 4.064e−02
Coefficient: 1.01e+00
Value: autumn
Caulobacter.mirabilis
150
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season

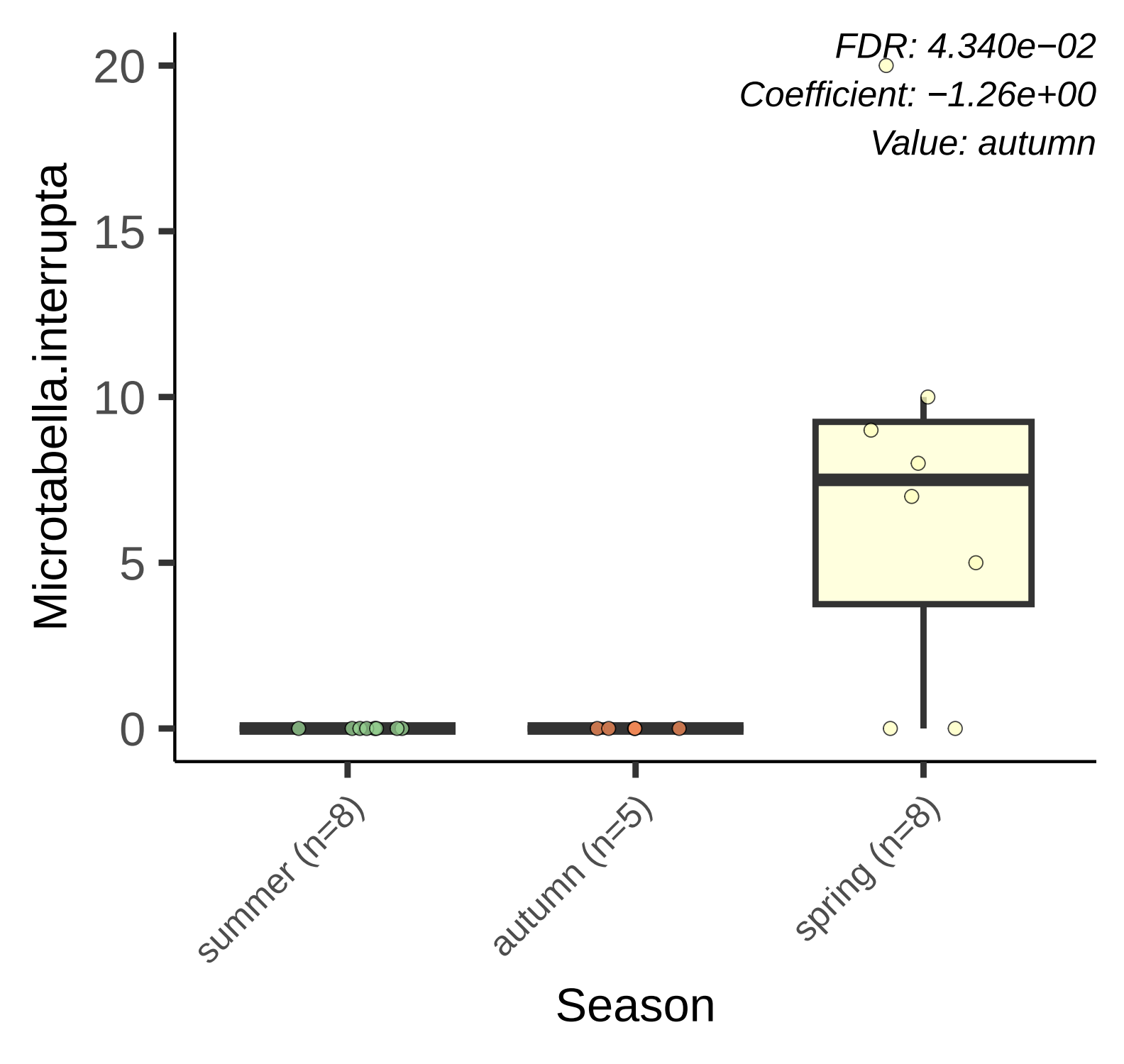

FDR: 4.077e−02
Coefficient: 1.14e+00
Value: autumn
Porphyrobacter.sp..CACIAM.03H1
160
120
80
40
summer (n=8)
autumn (n=5)
spring (n=8)
Season

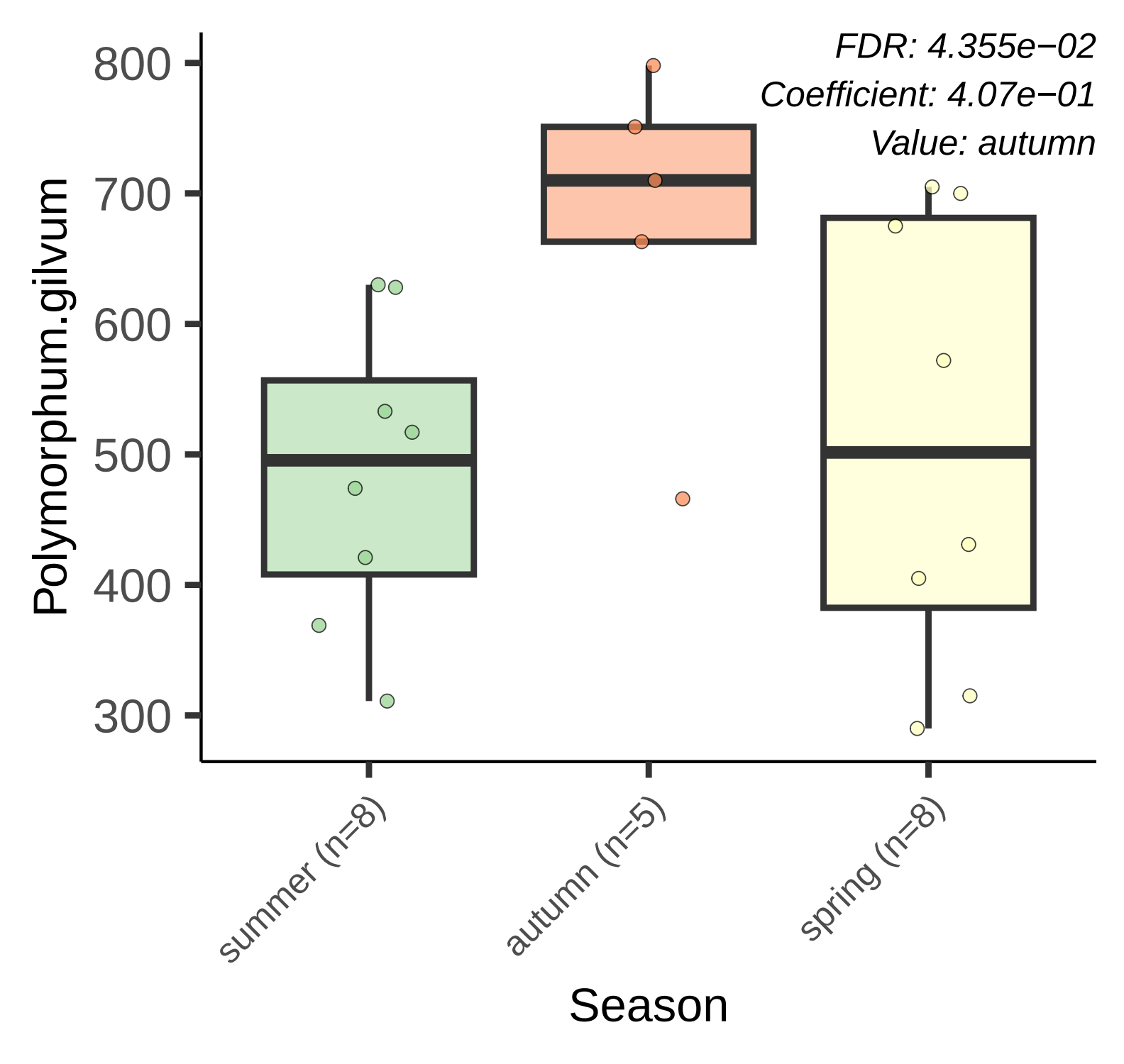

FDR: 4.084e−02
Coefficient: −1.06e+00
Value: autumn
Acinetobacter.soli
9
6
3
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

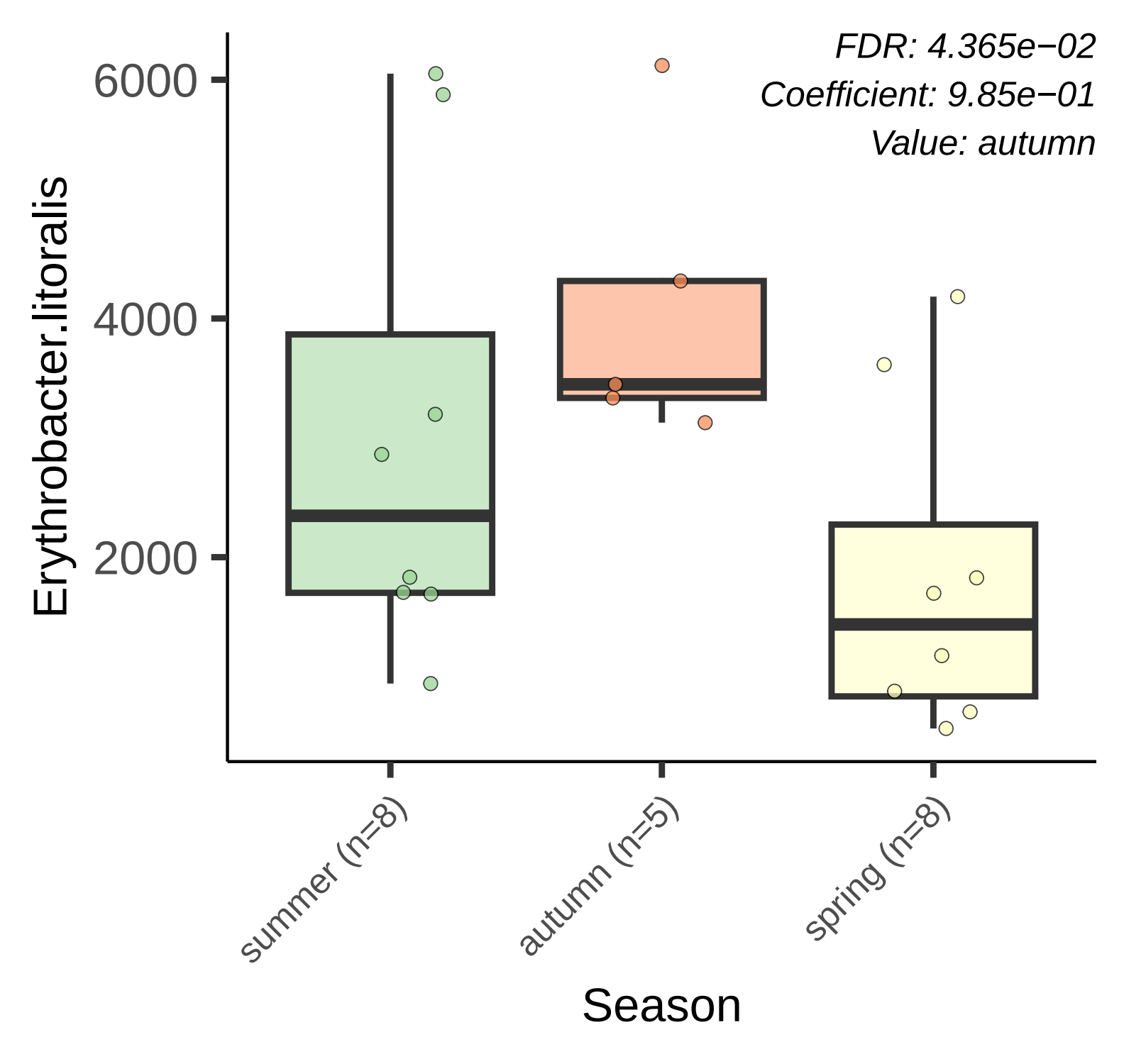

FDR: 4.212e−02
Coefficient: −1.27e+00
Value: autumn
uncultured.bacterium.HF0770_27E13
12.5
10.0
7.5
5.0
2.5
0.0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

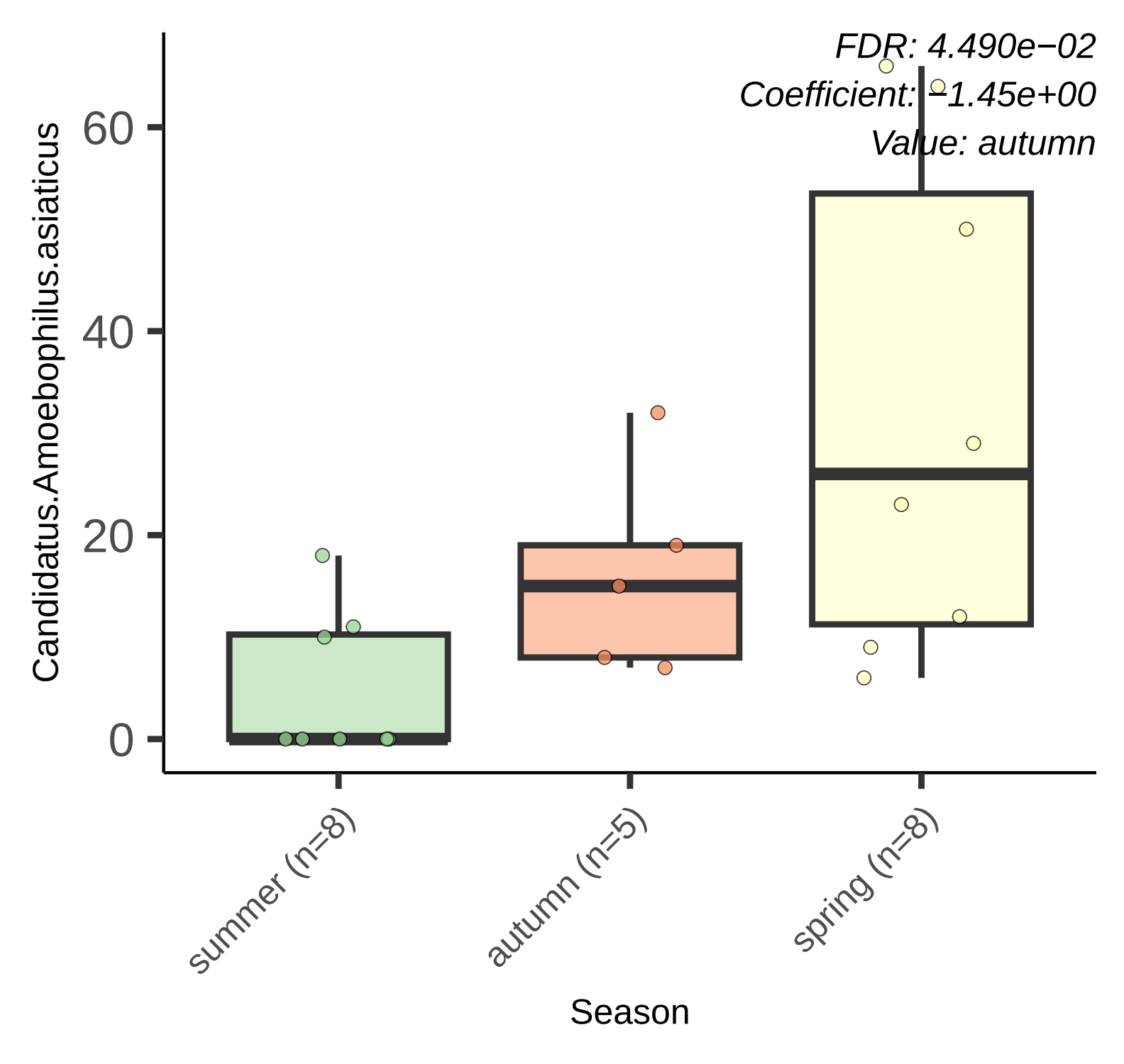

FDR: 4.257e−02
Coefficient: 1.98e+00
Value: autumn
Halothece.sp..PCC.7418
50000
40000
30000
20000
10000
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

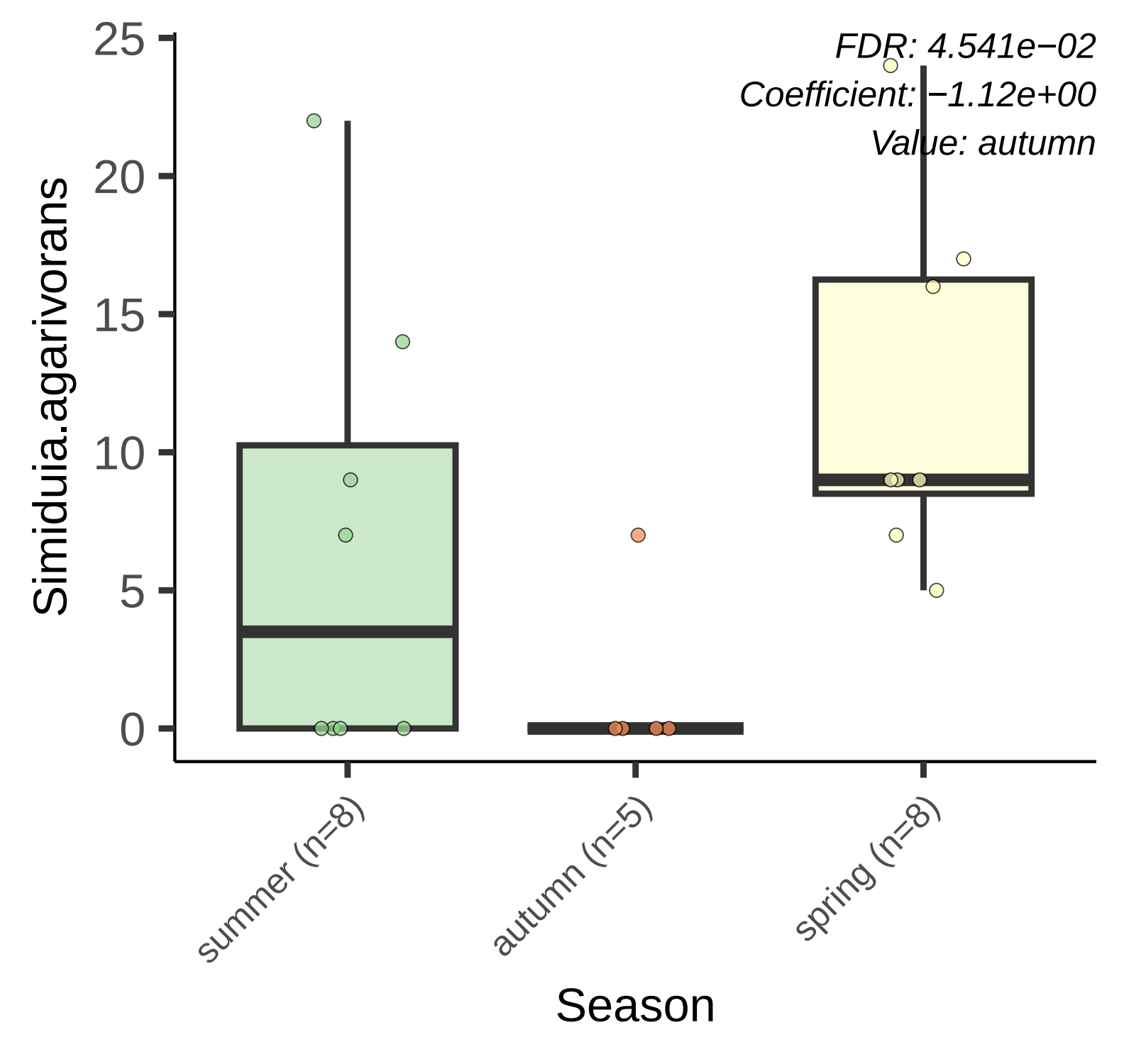

FDR: 4.275e−02
Coefficient: −1.10e+00
Value: autumn
Spiribacter.curvatus
800
600
400
200
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

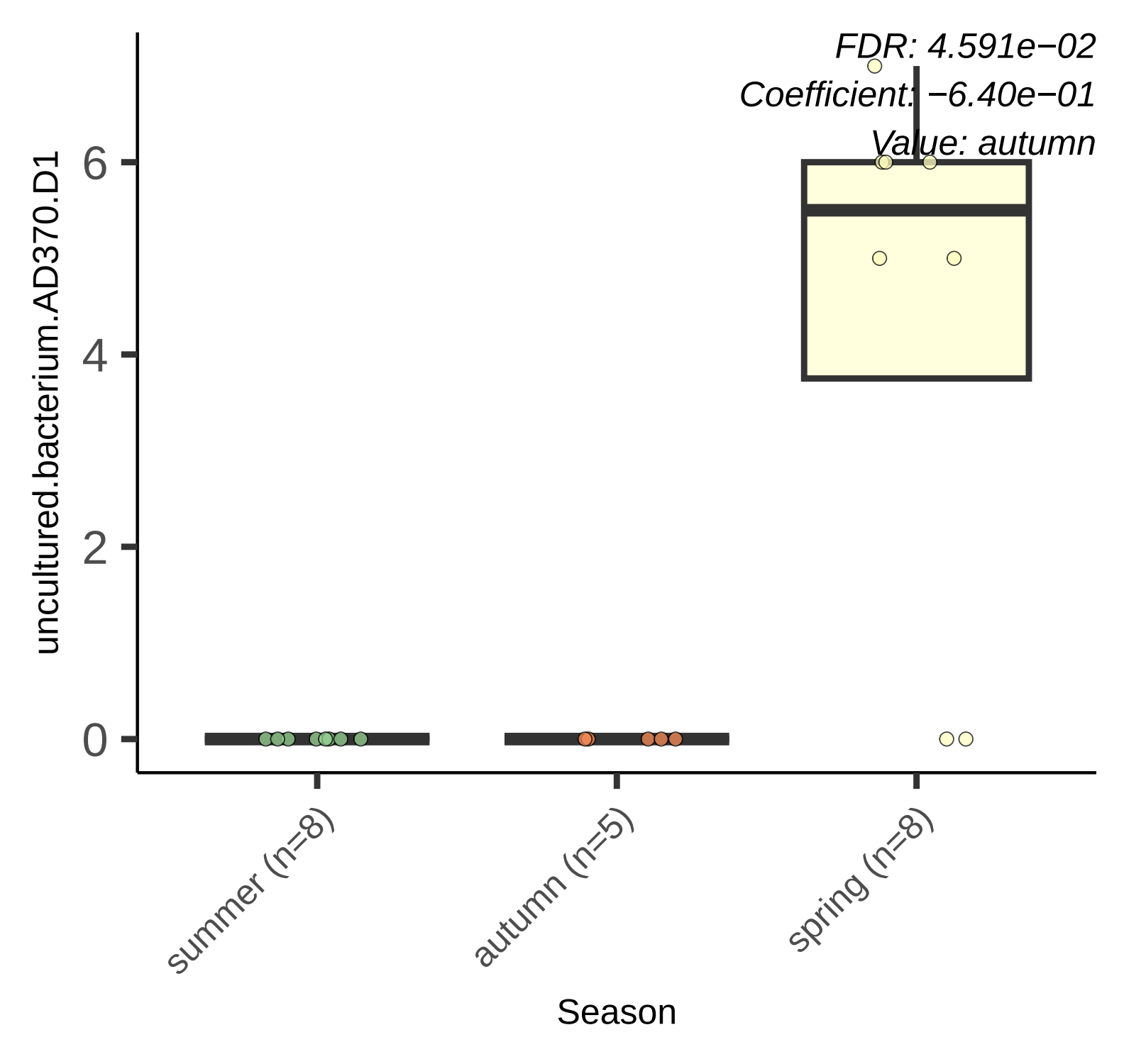

FDR: 4.340e−02
Coefficient: −1.26e+00
Value: autumn
Microtabella.interrupta
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

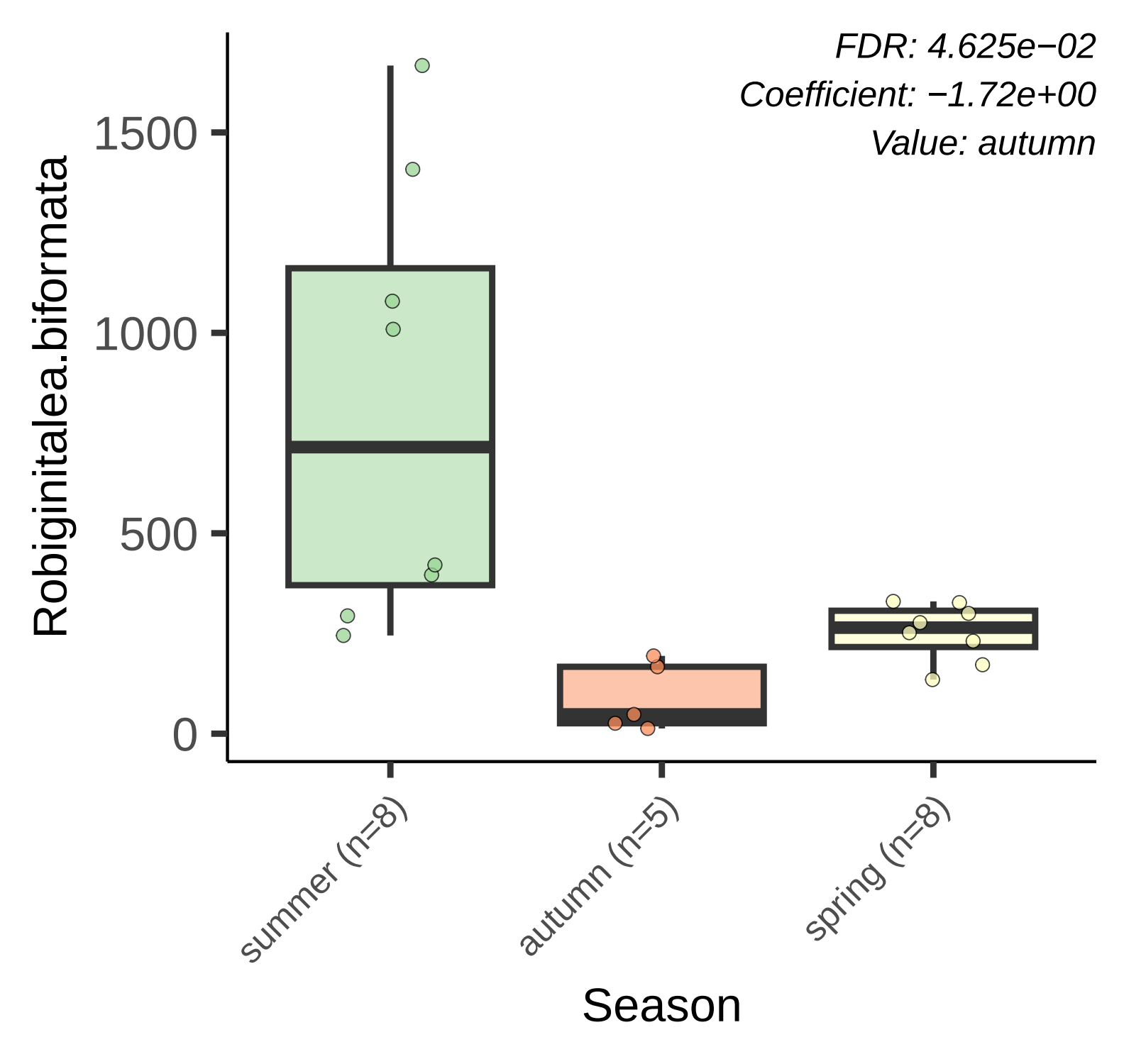

FDR: 4.355e−02
Coefficient: 4.07e−01
Value: autumn
Polymorphum.gilvum
800
700
600
500
400
300
summer (n=8)
autumn (n=5)
spring (n=8)
Season

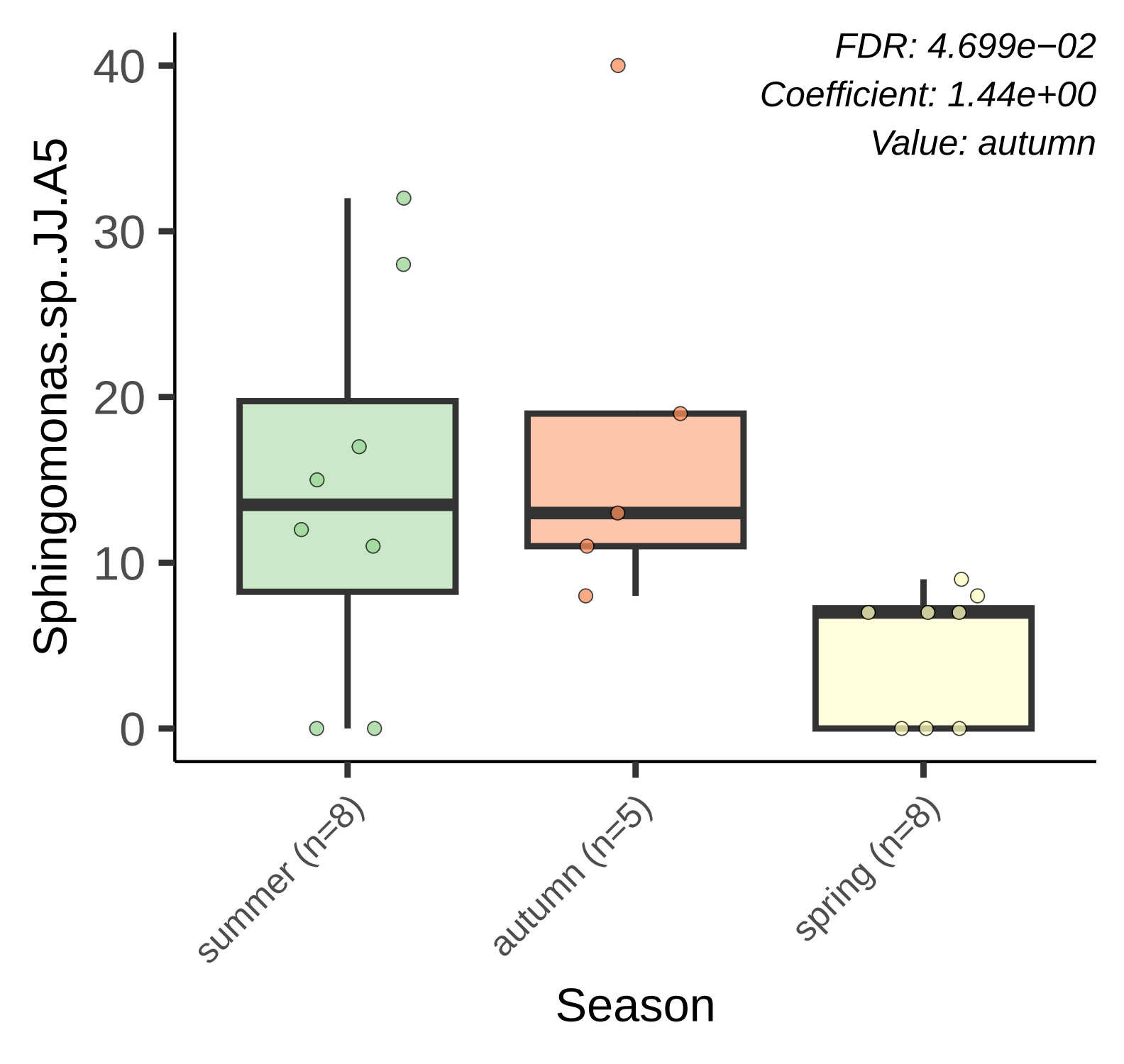

FDR: 4.365e−02
Coefficient: 9.85e−01
Value: autumn
Erythrobacter.litoralis
6000
4000
2000
summer (n=8)
autumn (n=5)
spring (n=8)
Season

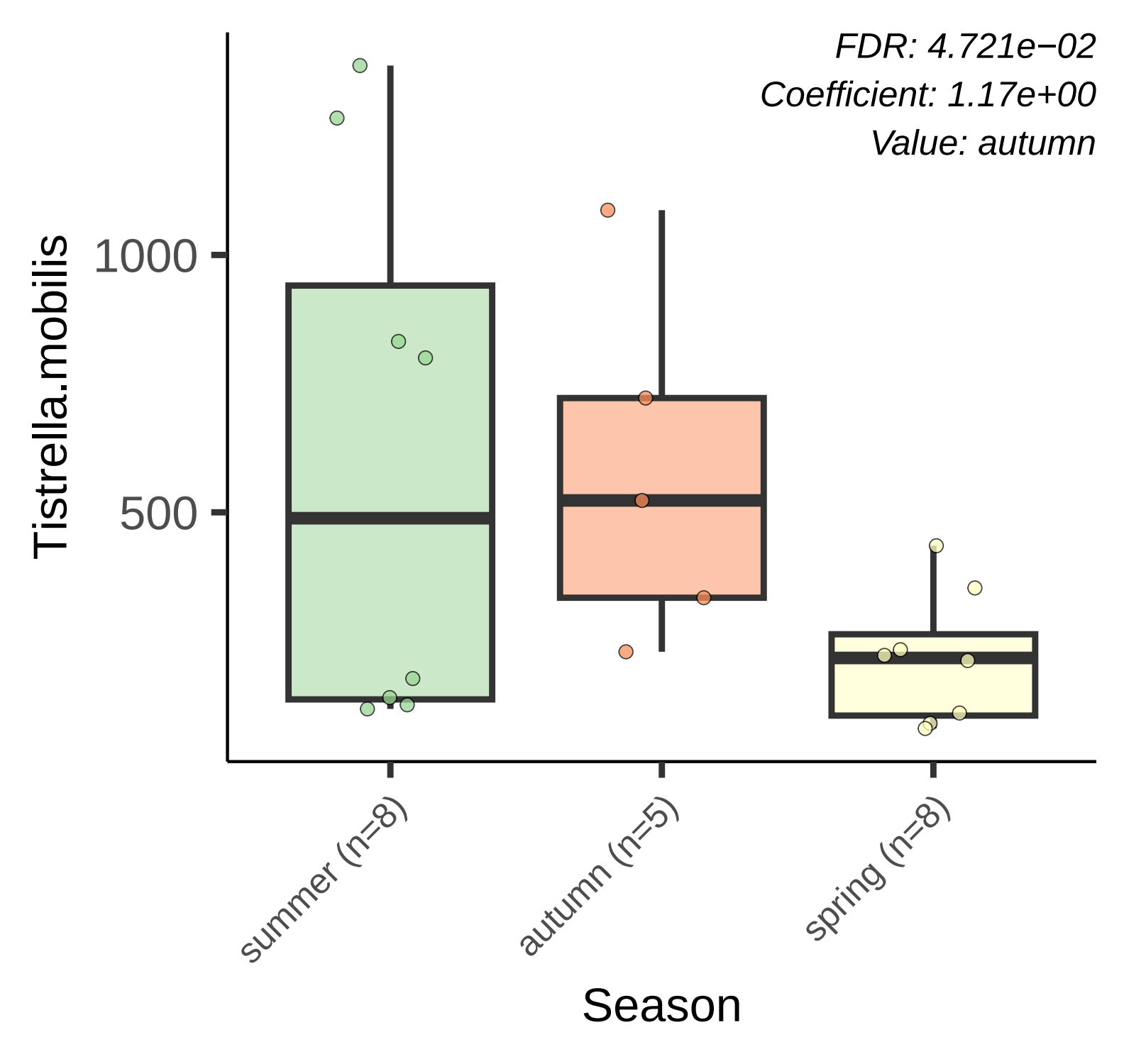

FDR: 4.490e−02
Coefficient: −1.45e+00
Value: autumn
Candidatus.Amoebophilus.asiaticus
60
40
20
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

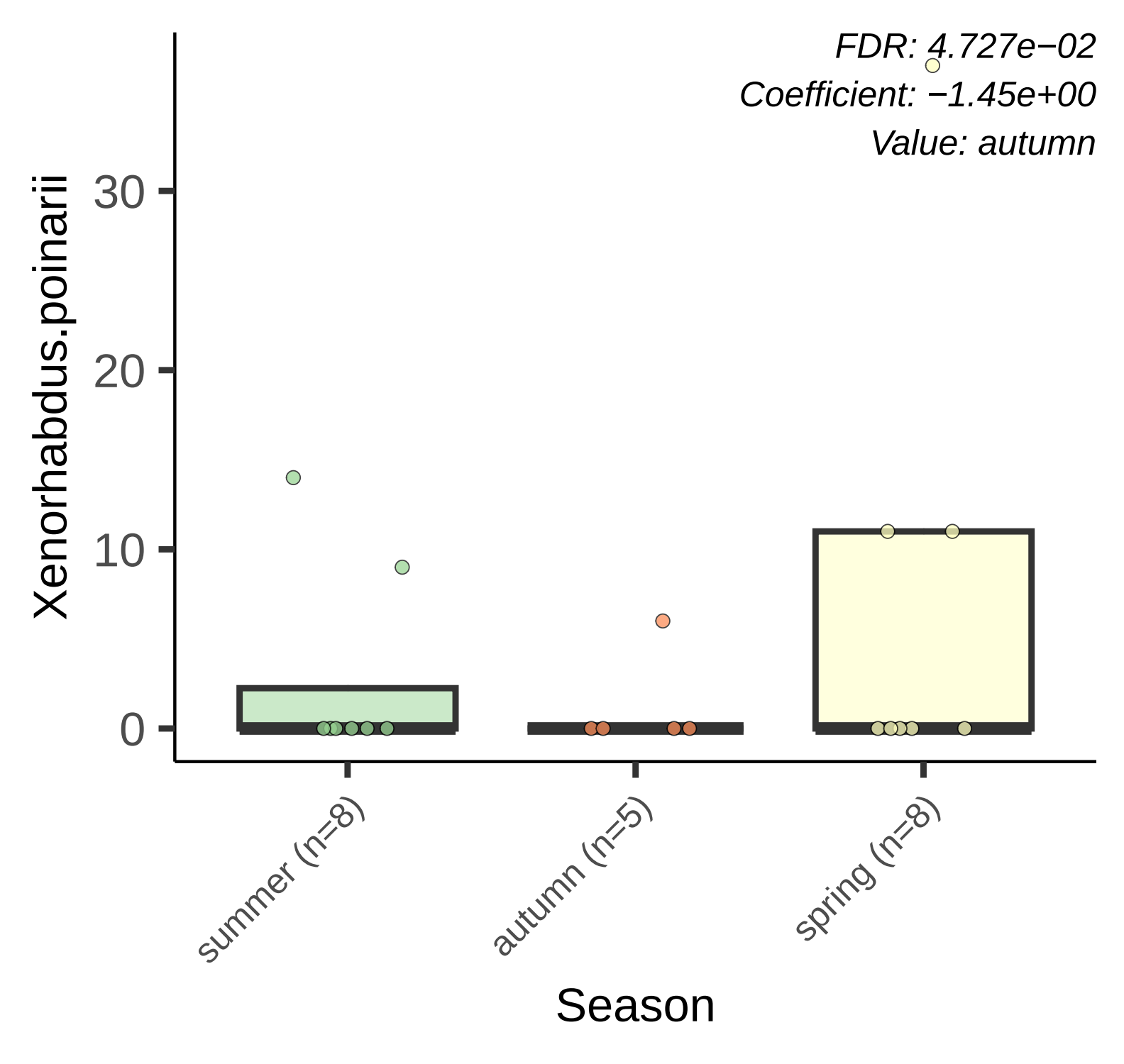

FDR: 4.541e−02
Coefficient: −1.12e+00
Value: autumn
Simiduia.agarivorans
25
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

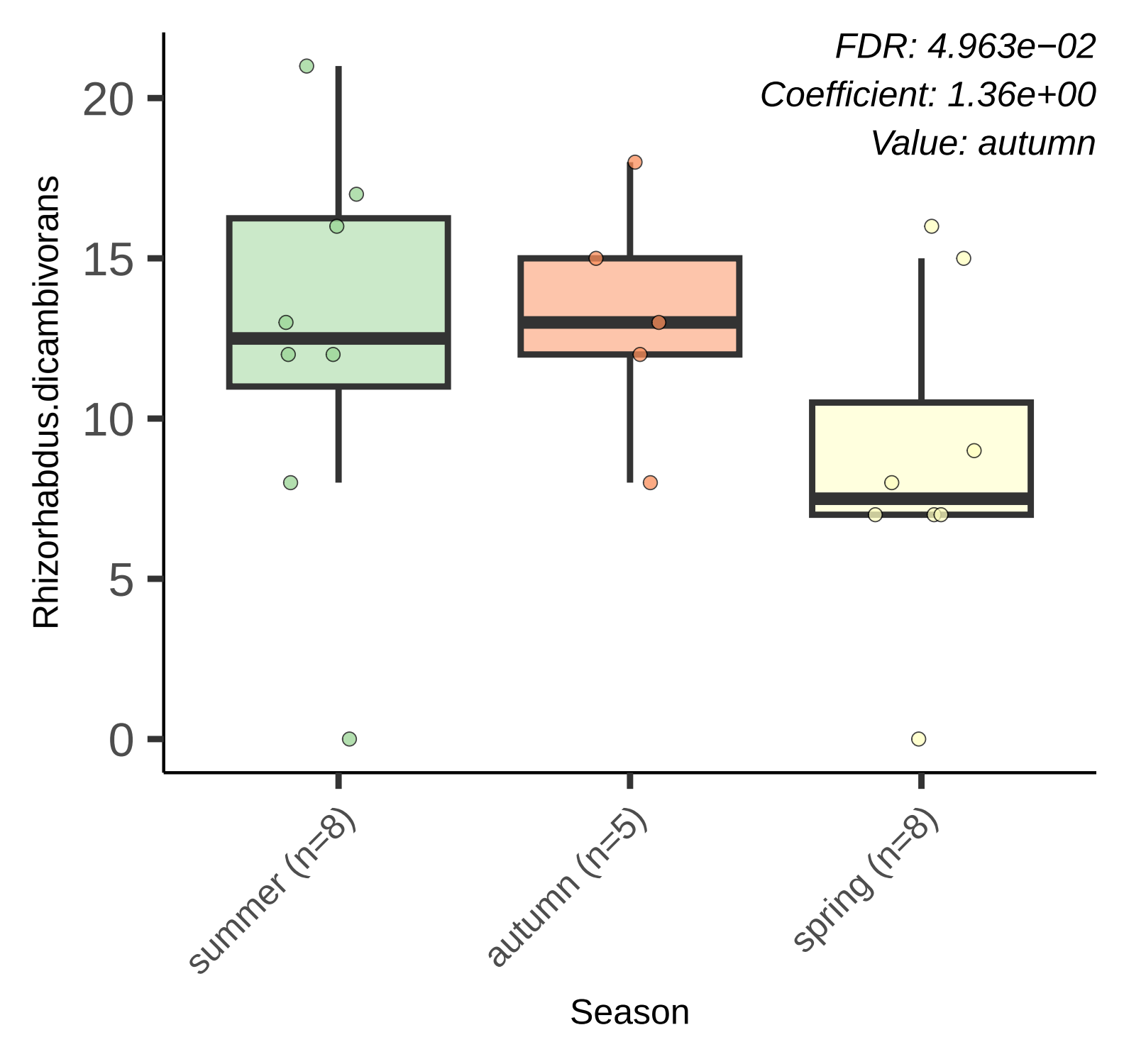

FDR: 4.591e−02
Coefficient: −6.40e−01
Value: autumn
uncultured.bacterium.AD370.D1
6
4
2
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season

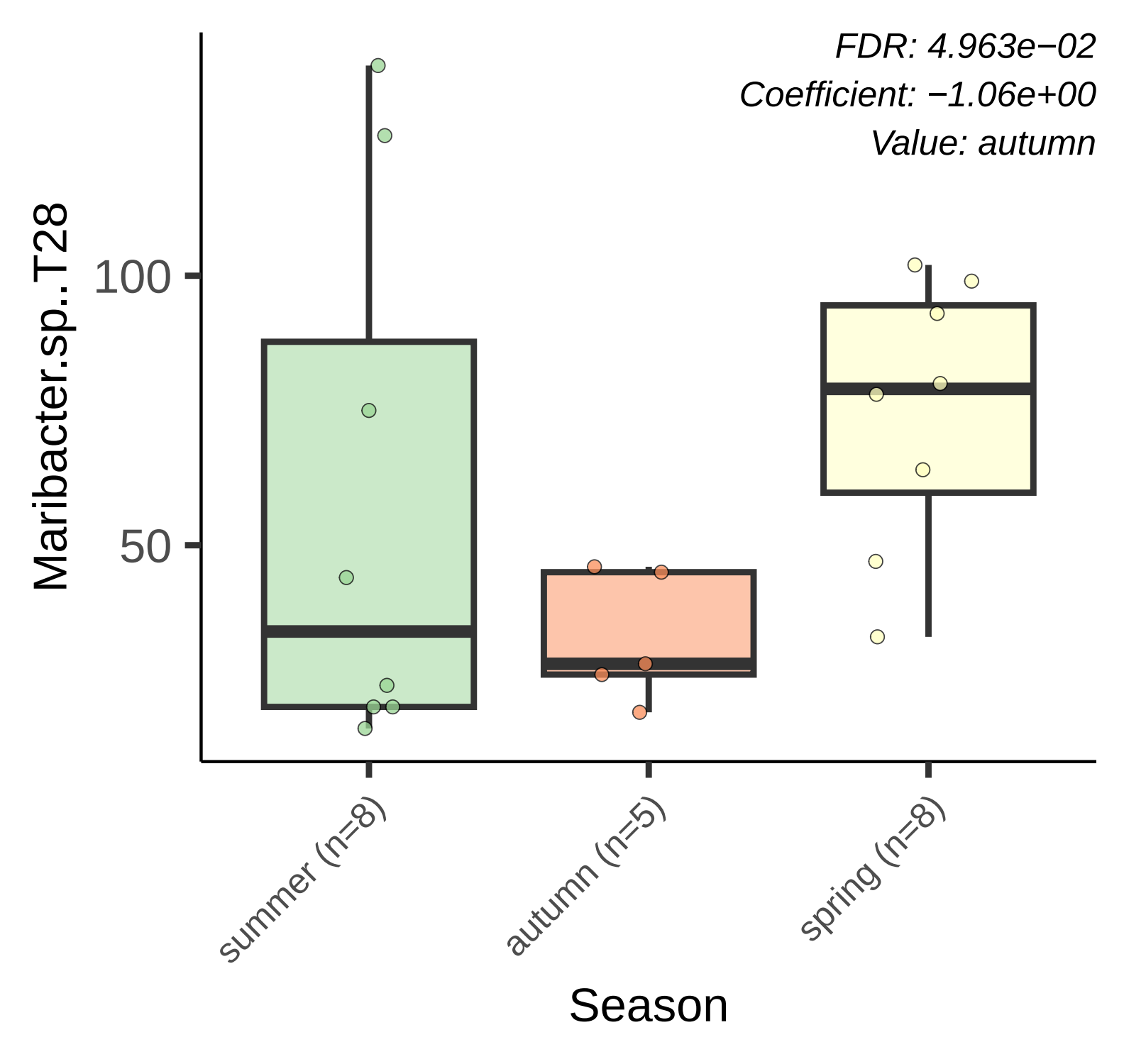

FDR: 4.625e−02
Coefficient: −1.72e+00
Value: autumn
Robiginitalea.biformata
1500
1000
500
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season


FDR: 4.699e−02
Coefficient: 1.44e+00
Value: autumn
Sphingomonas.sp..JJ.A5
40
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season


FDR: 4.721e−02
Coefficient: 1.17e+00
Value: autumn
Tistrella.mobilis
1000
500
summer (n=8)
autumn (n=5)
spring (n=8)
Season


FDR: 4.727e−02
Coefficient: −1.45e+00
Value: autumn
Xenorhabdus.poinarii
30
20
10
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season


FDR: 4.963e−02
Coefficient: 1.36e+00
Value: autumn
Rhizorhabdus.dicambivorans
20
15
10
5
0
summer (n=8)
autumn (n=5)
spring (n=8)
Season


FDR: 4.963e−02
Coefficient: −1.06e+00
Value: autumn
Maribacter.sp..T28
100
50
summer (n=8)
autumn (n=5)
spring (n=8)
Season