

## 1,REACTOME\_MRNA\_SPLICING

Value

0.3

0.2

0.1

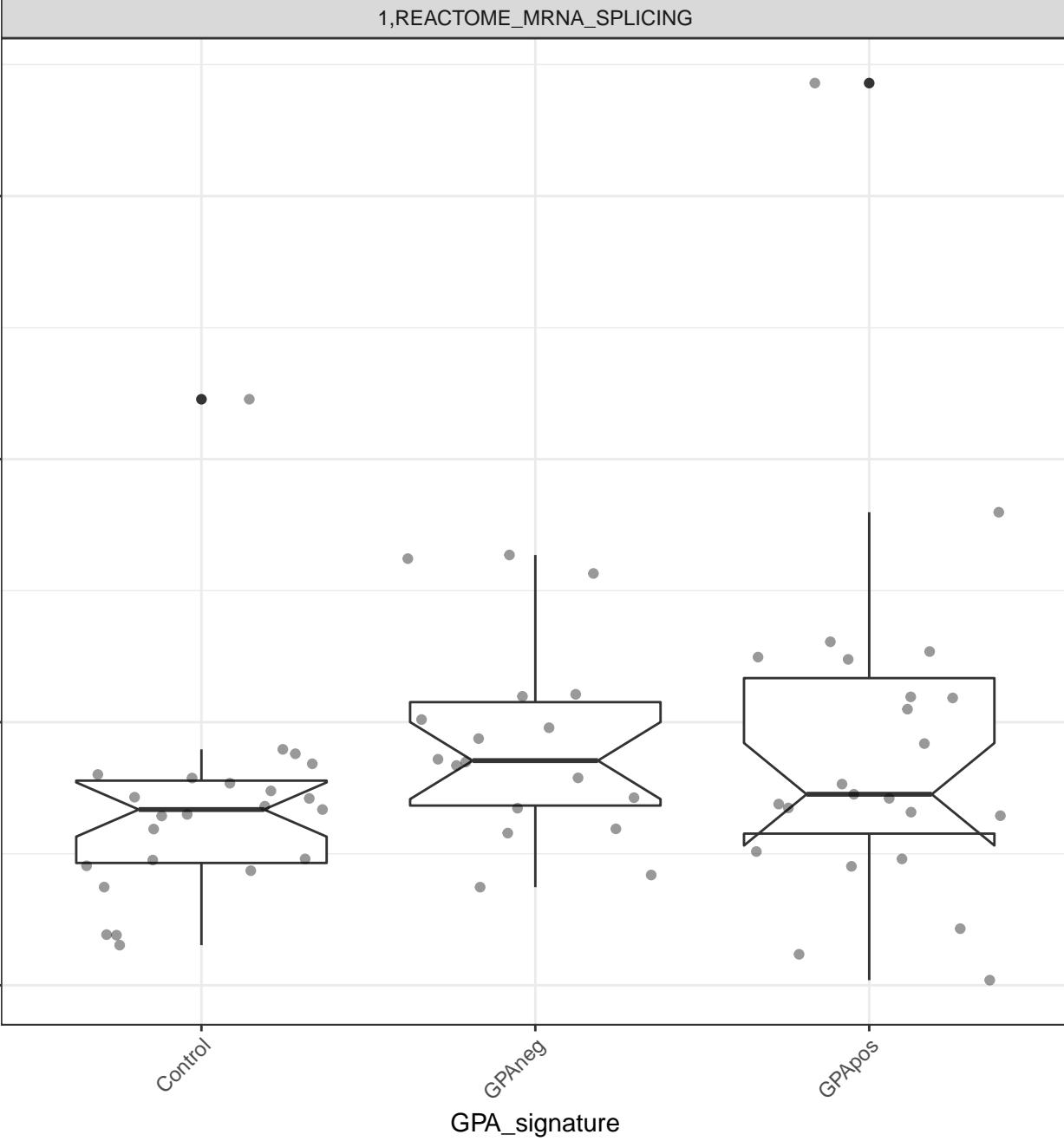
0.0

Control

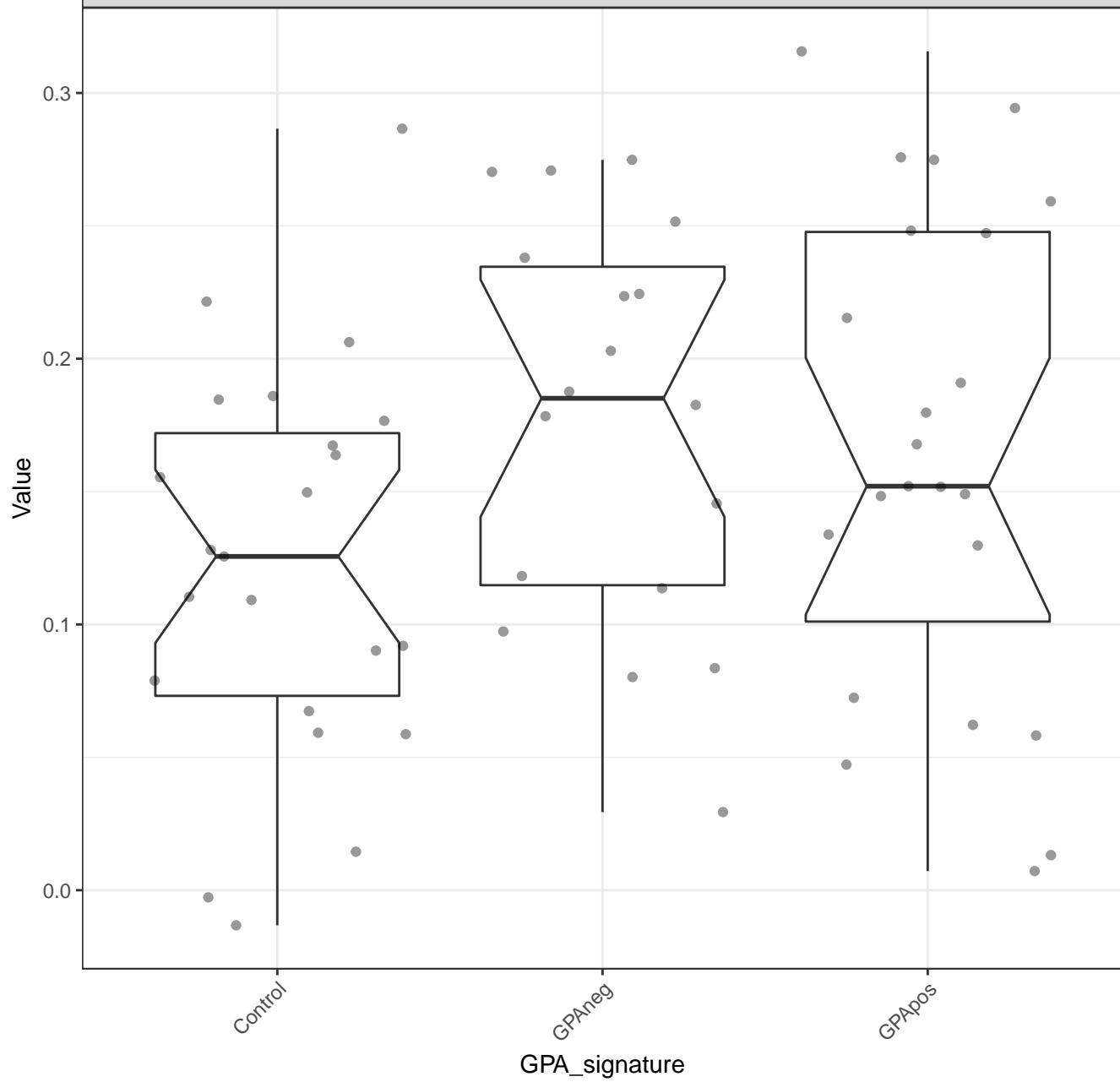
GPA\_signature

GPAneg

GPAPos



## 2,SVM Monocytes



### 3,REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES

Value

0.05

0.00

-0.05

-0.10

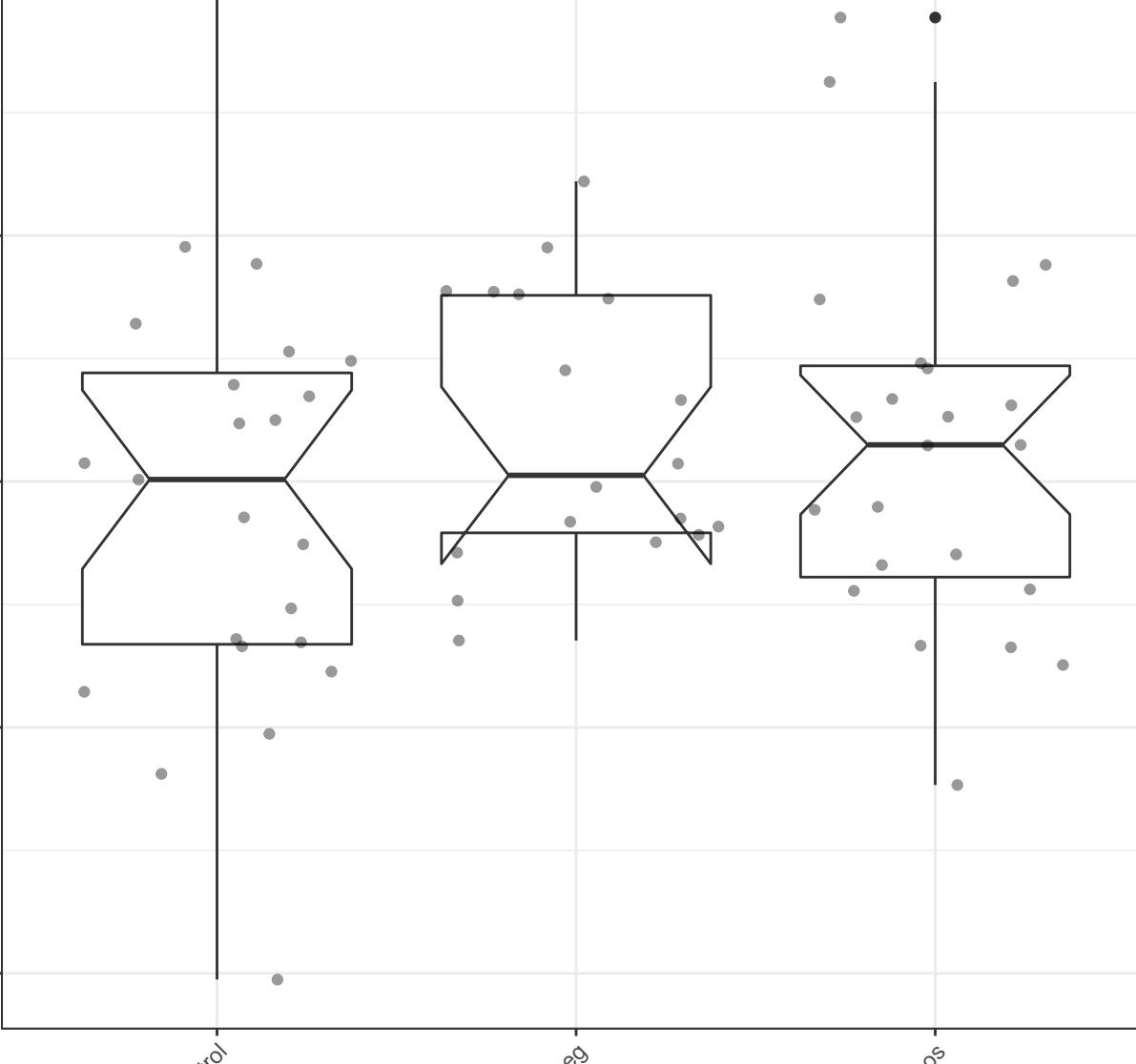
-0.15

Control

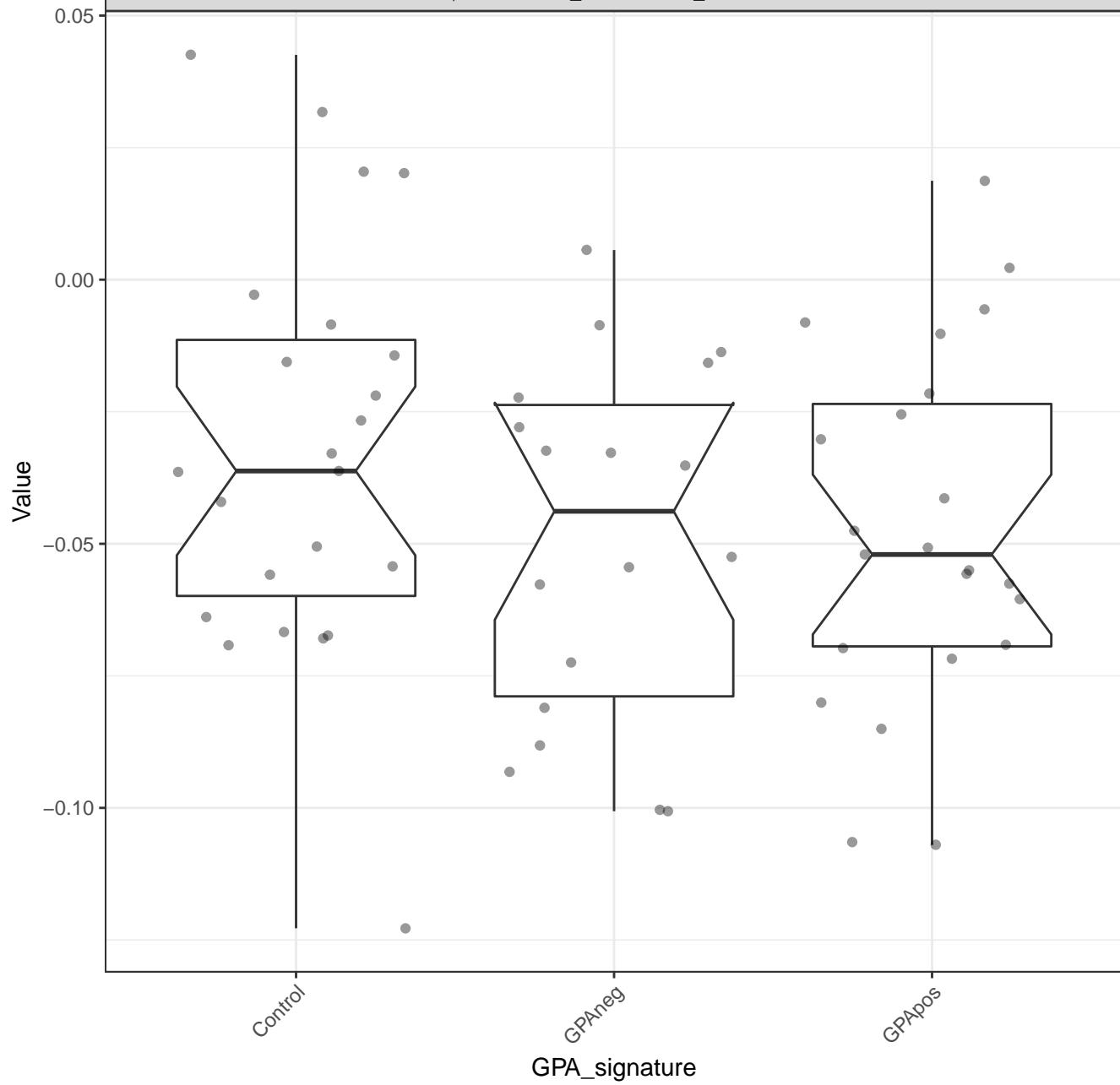
GPA\_signature

GPAneg

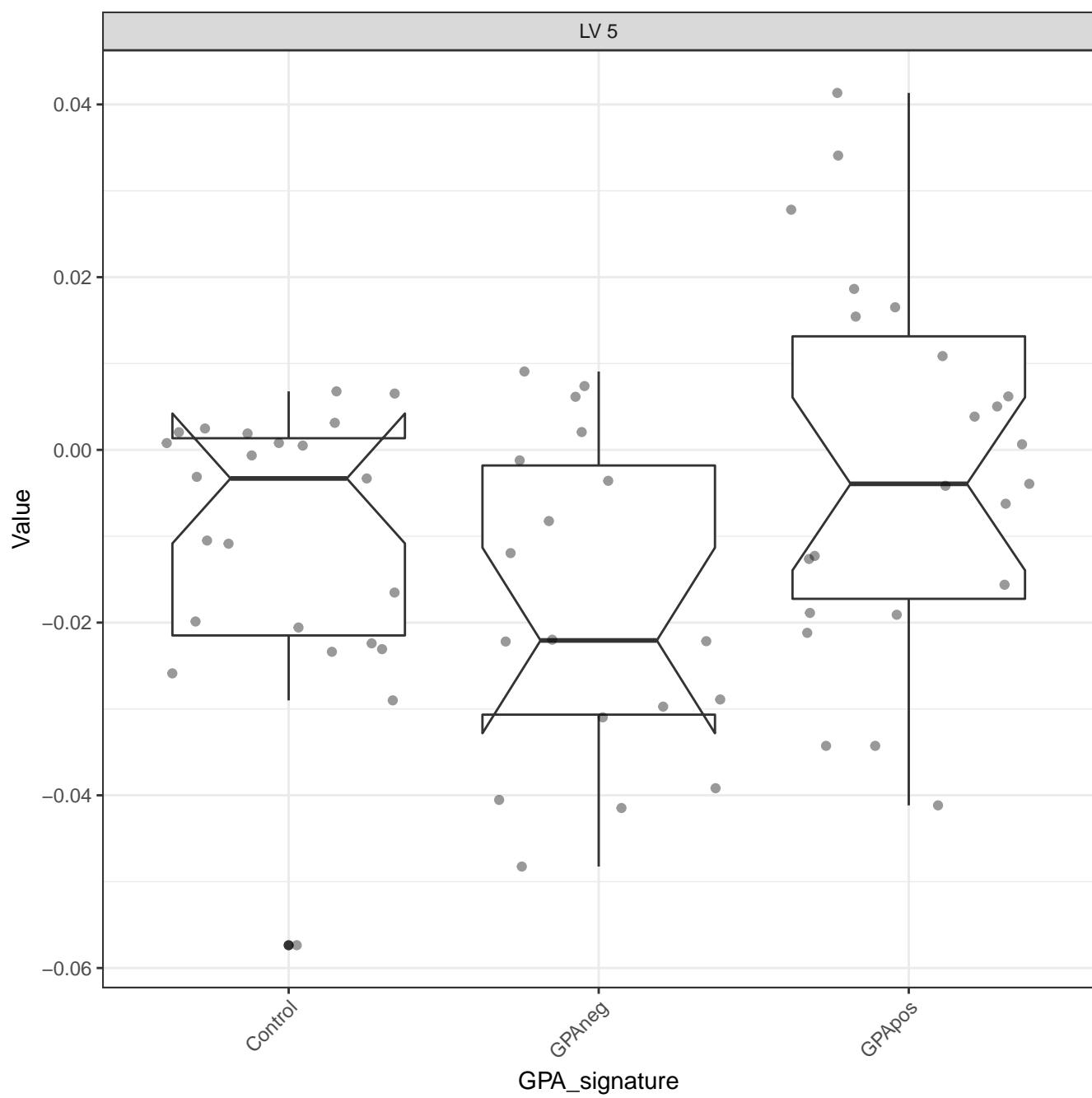
GPApos



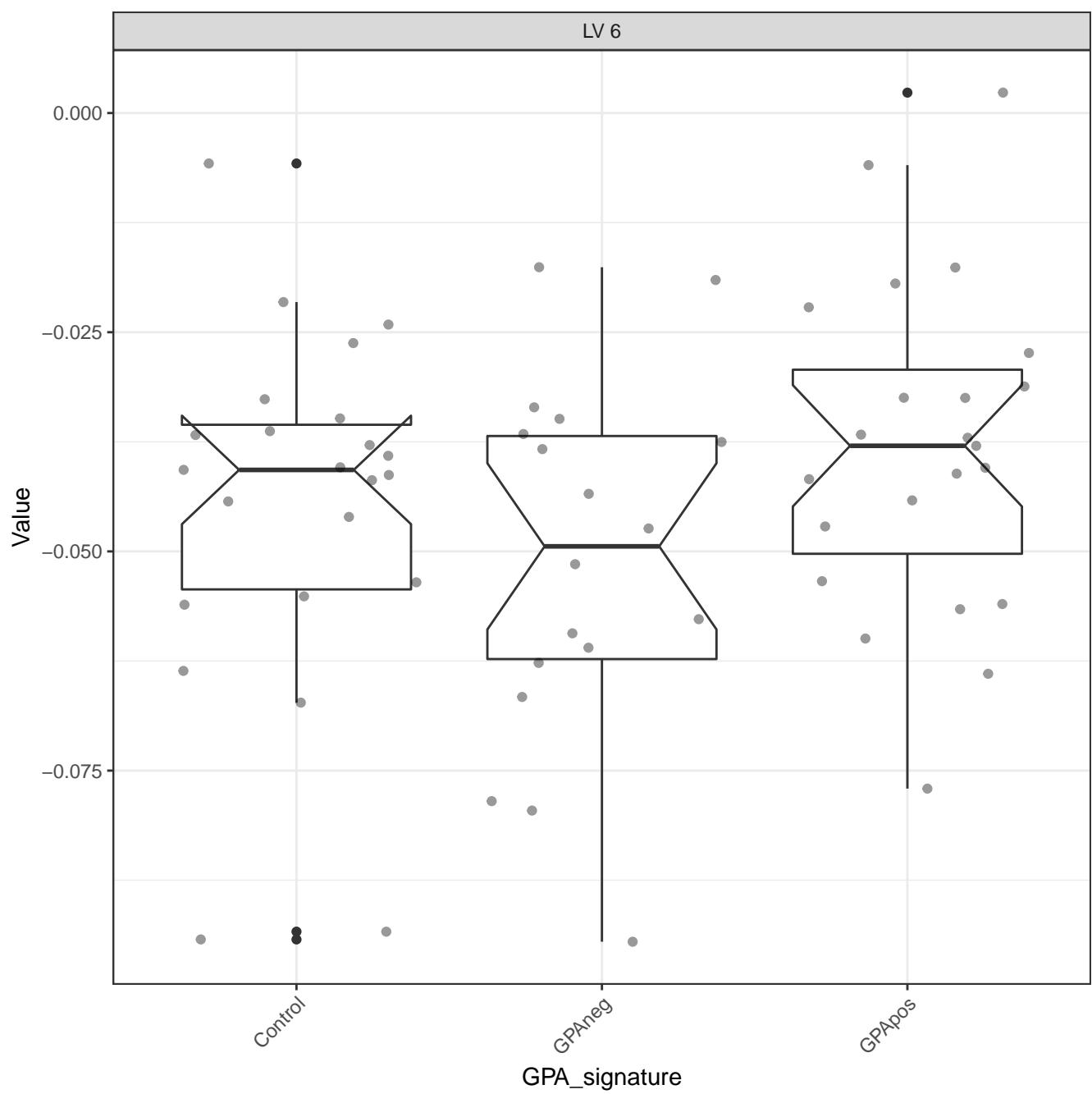
## 4,REACTOME\_NEURONAL\_SYSTEM



LV 5

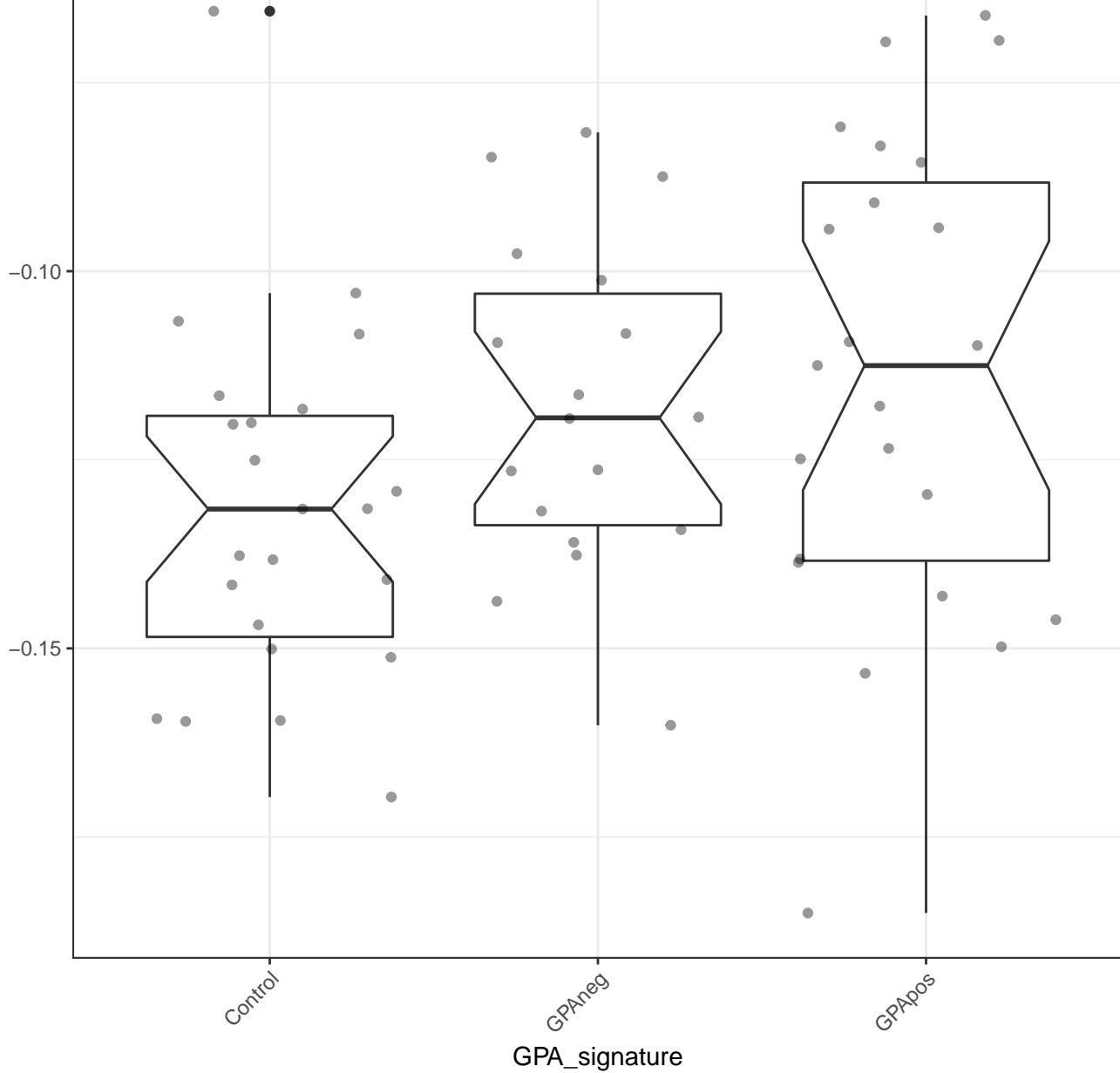


## LV 6

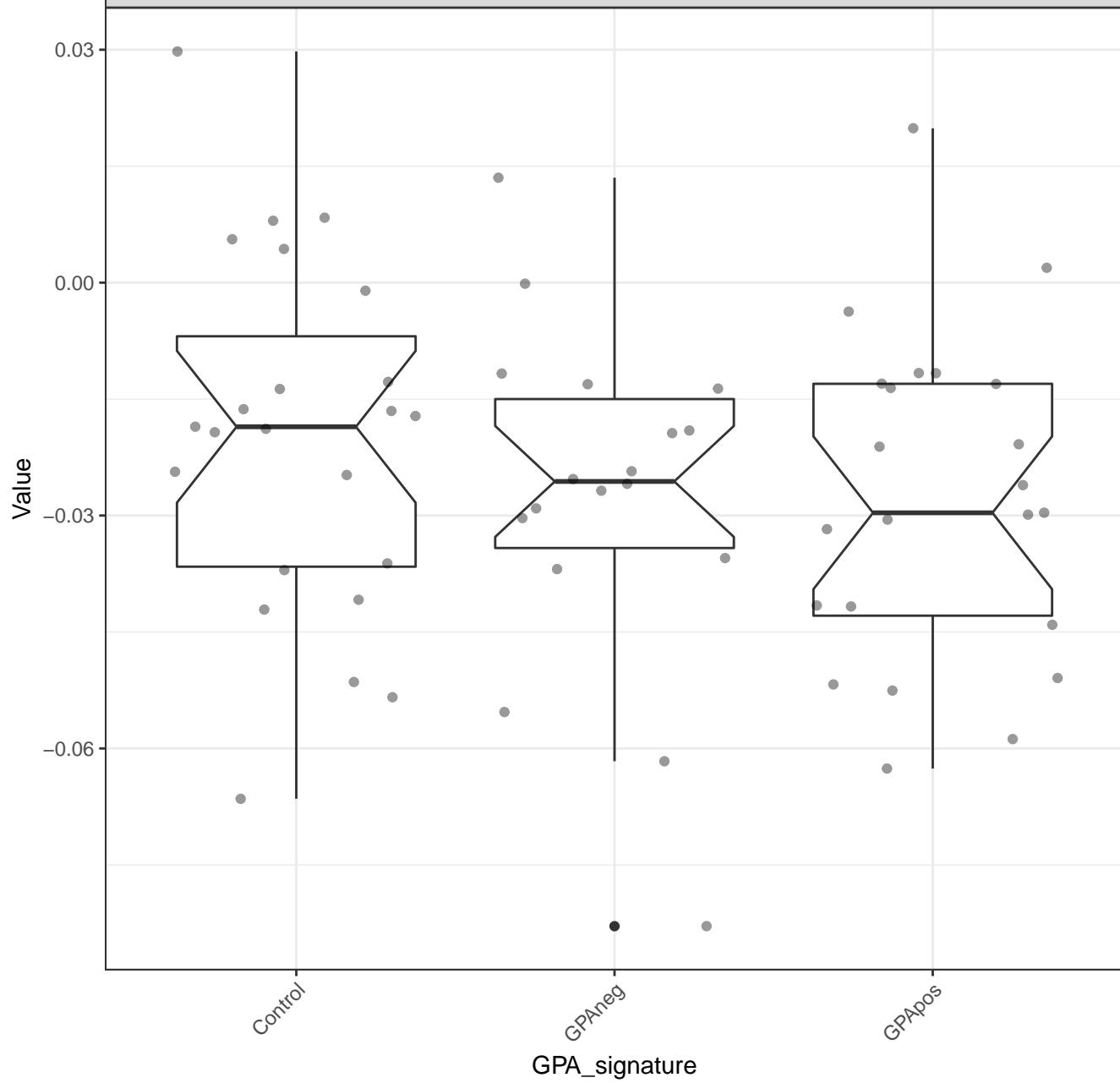


## 7,IRIS\_Neutrophil-Resting

Value



## 8,KEGG\_PPAR\_SIGNALING\_PATHWAY



LV 9

Value

0.2

0.1

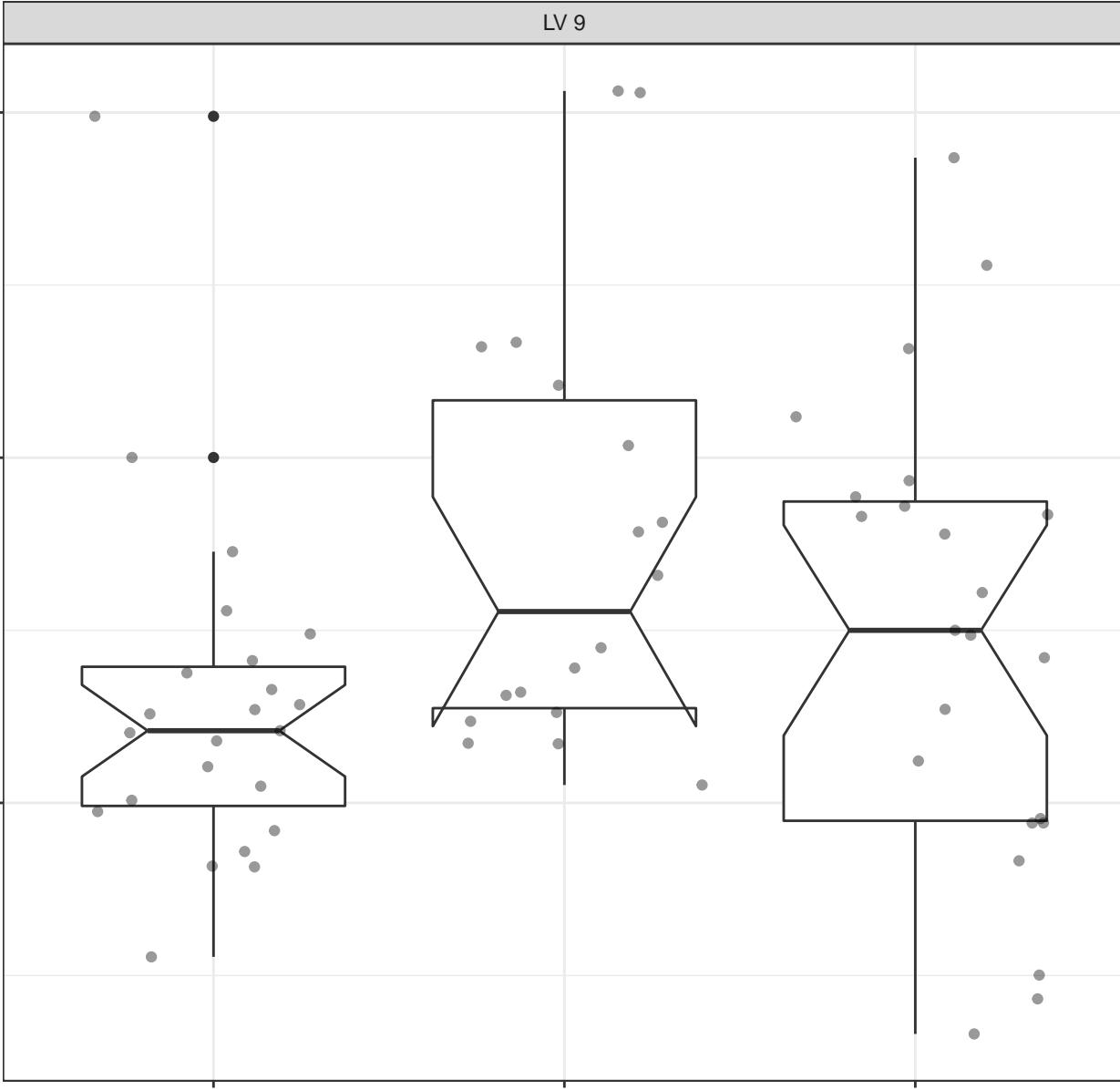
0.0

Control

GPA\_signature

GPAneg

GPApos



## 10,SVM Macrophages M0

Value

0.05

0.00

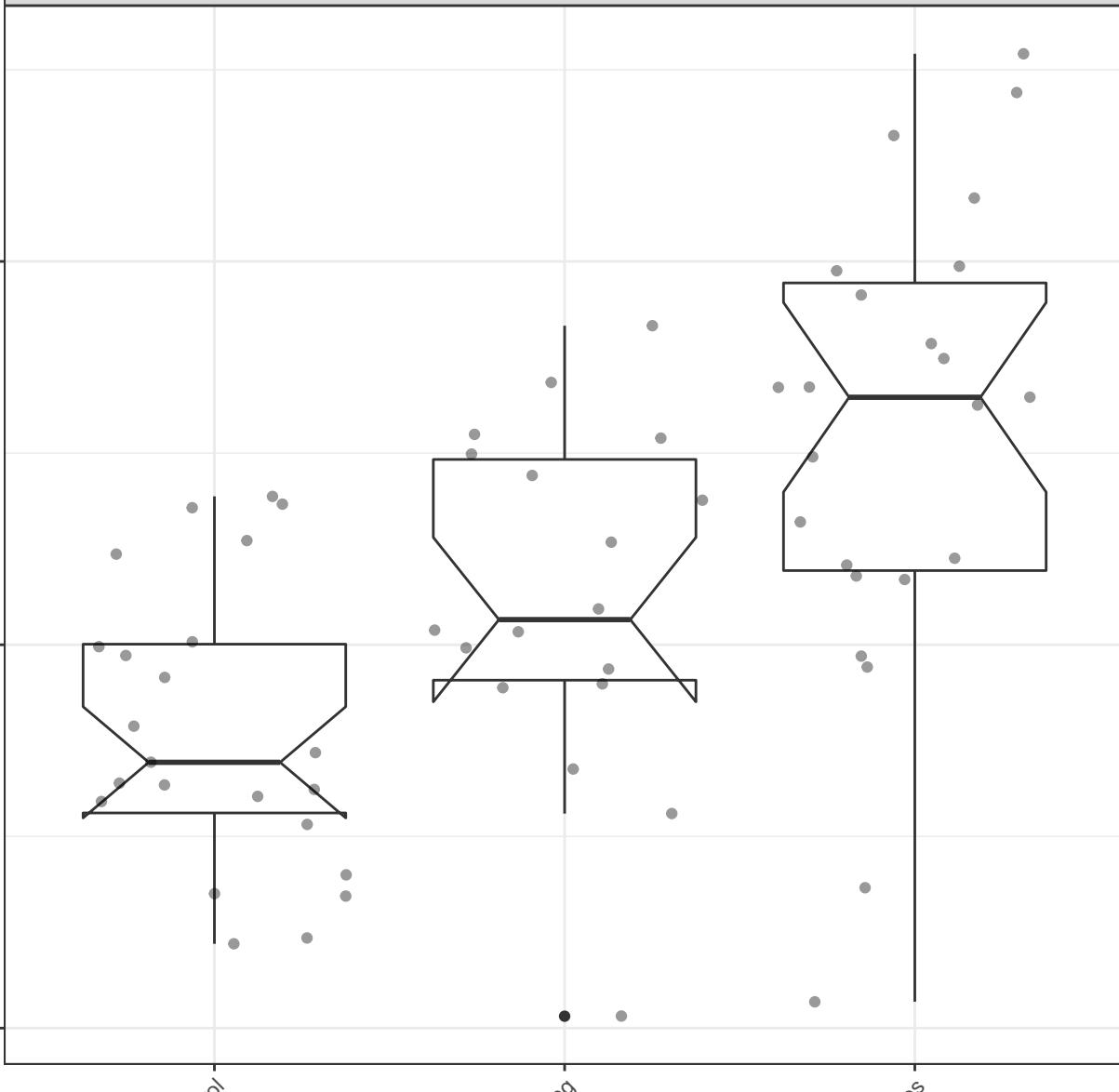
-0.05

Control

GPA\_signature

GPAneg

GPAPos



## LV 11

Value

0.05

0.00

-0.05

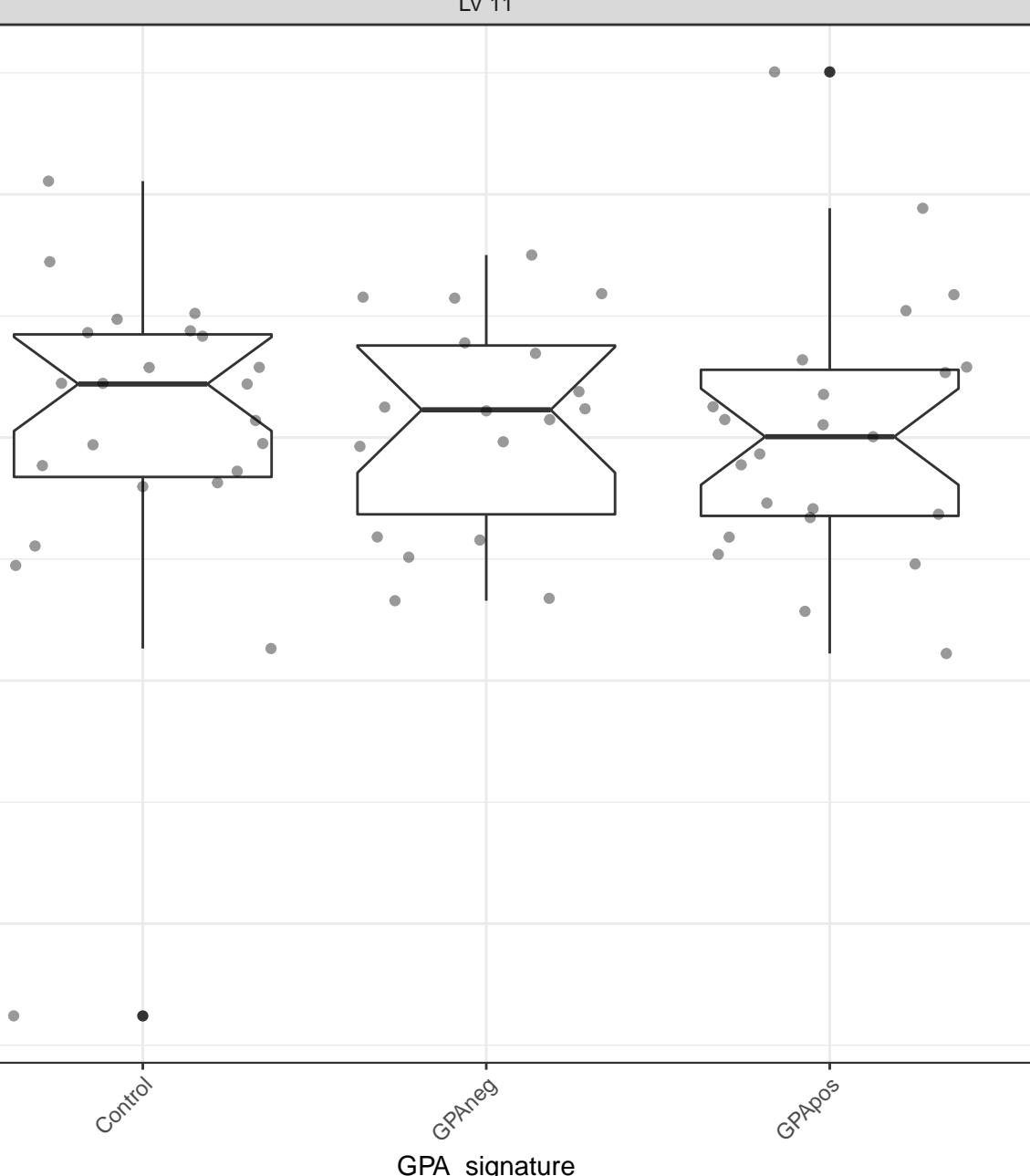
-0.10

Control

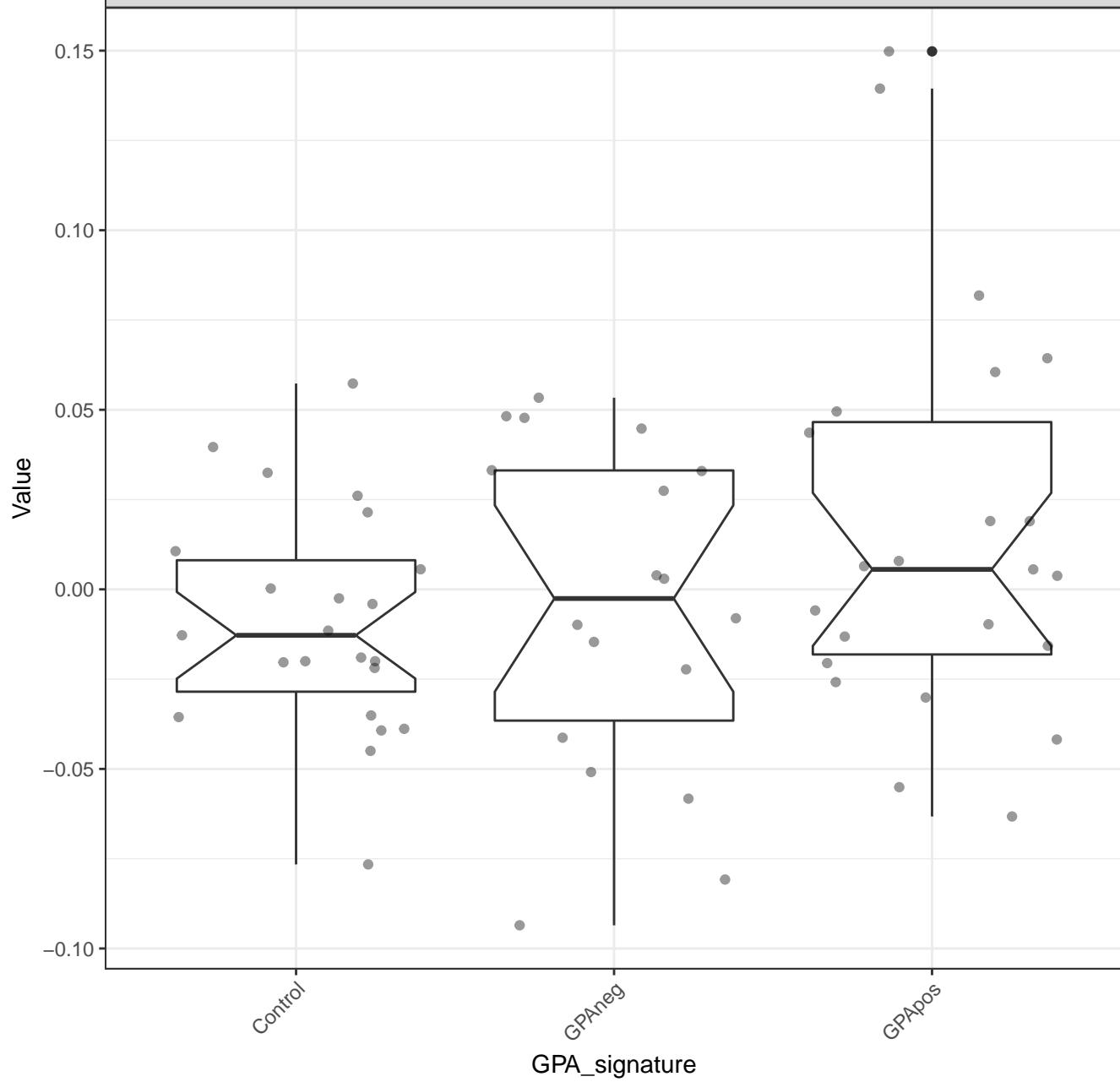
GPAneg

GPAPos

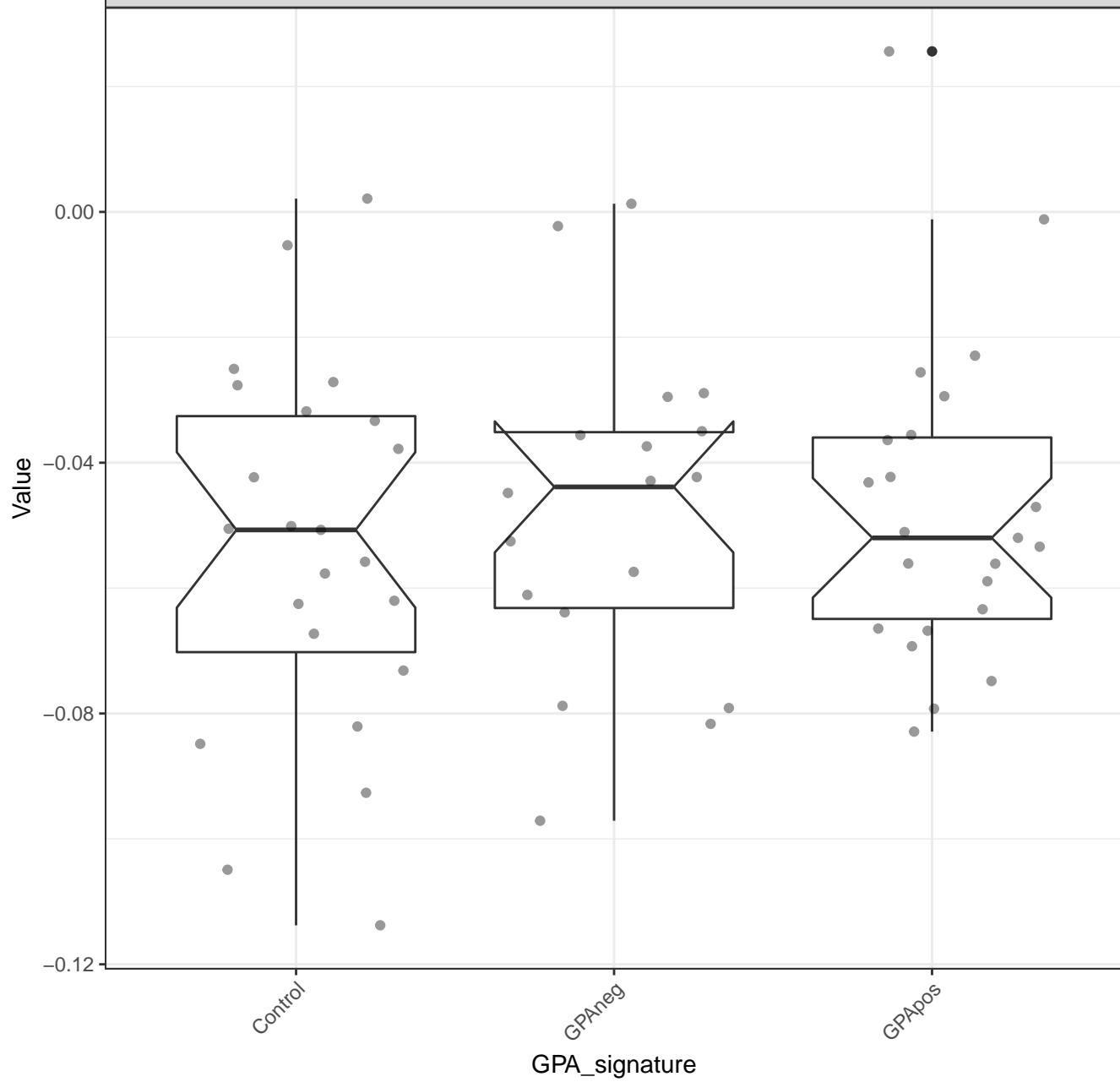
GPA\_signature



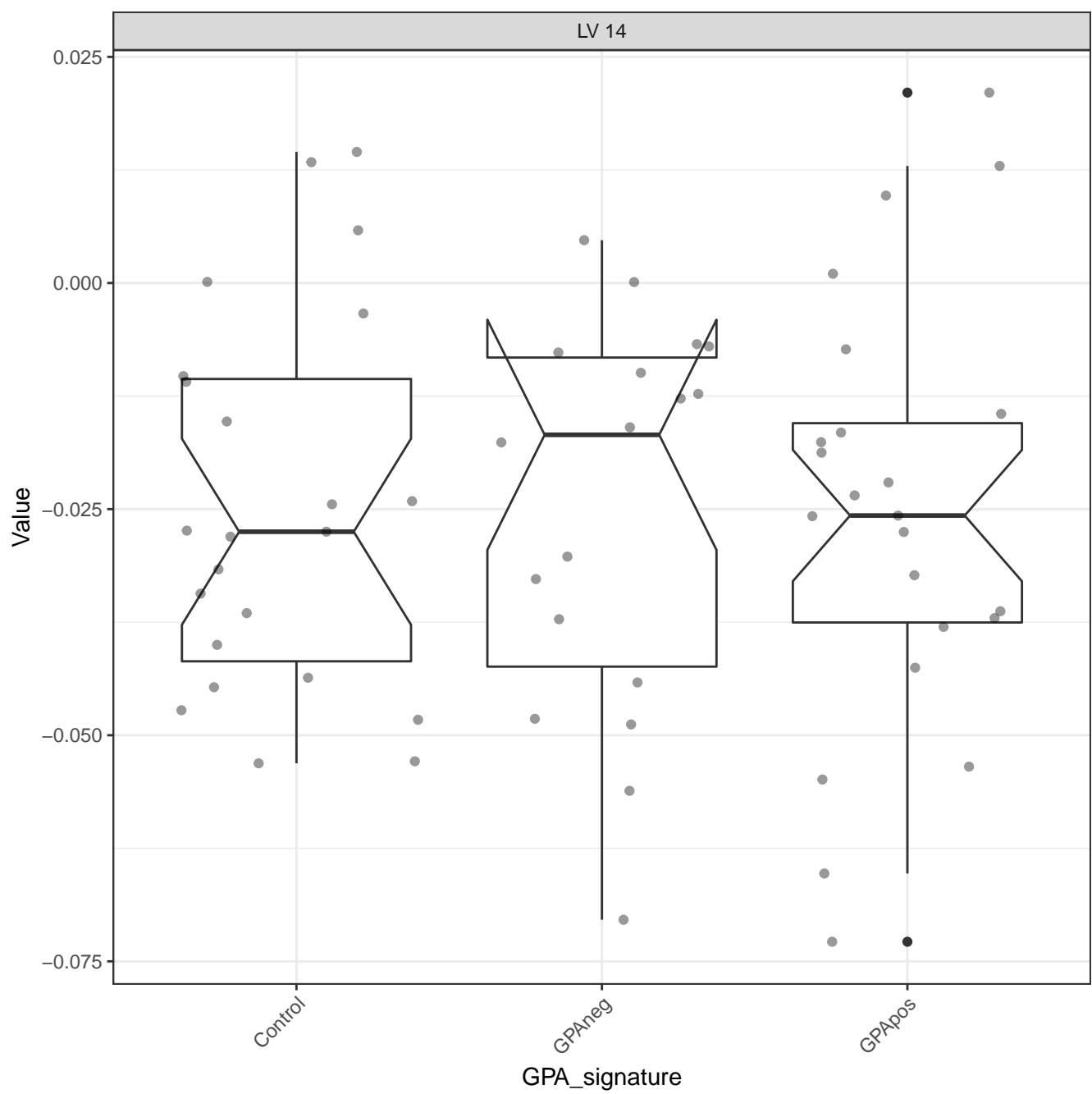
## 12,DMAP\_MEGA2



## 13,REACTOME\_GLUCOSE\_METABOLISM



## LV 14



## LV 15

Value

0.00

-0.04

-0.08

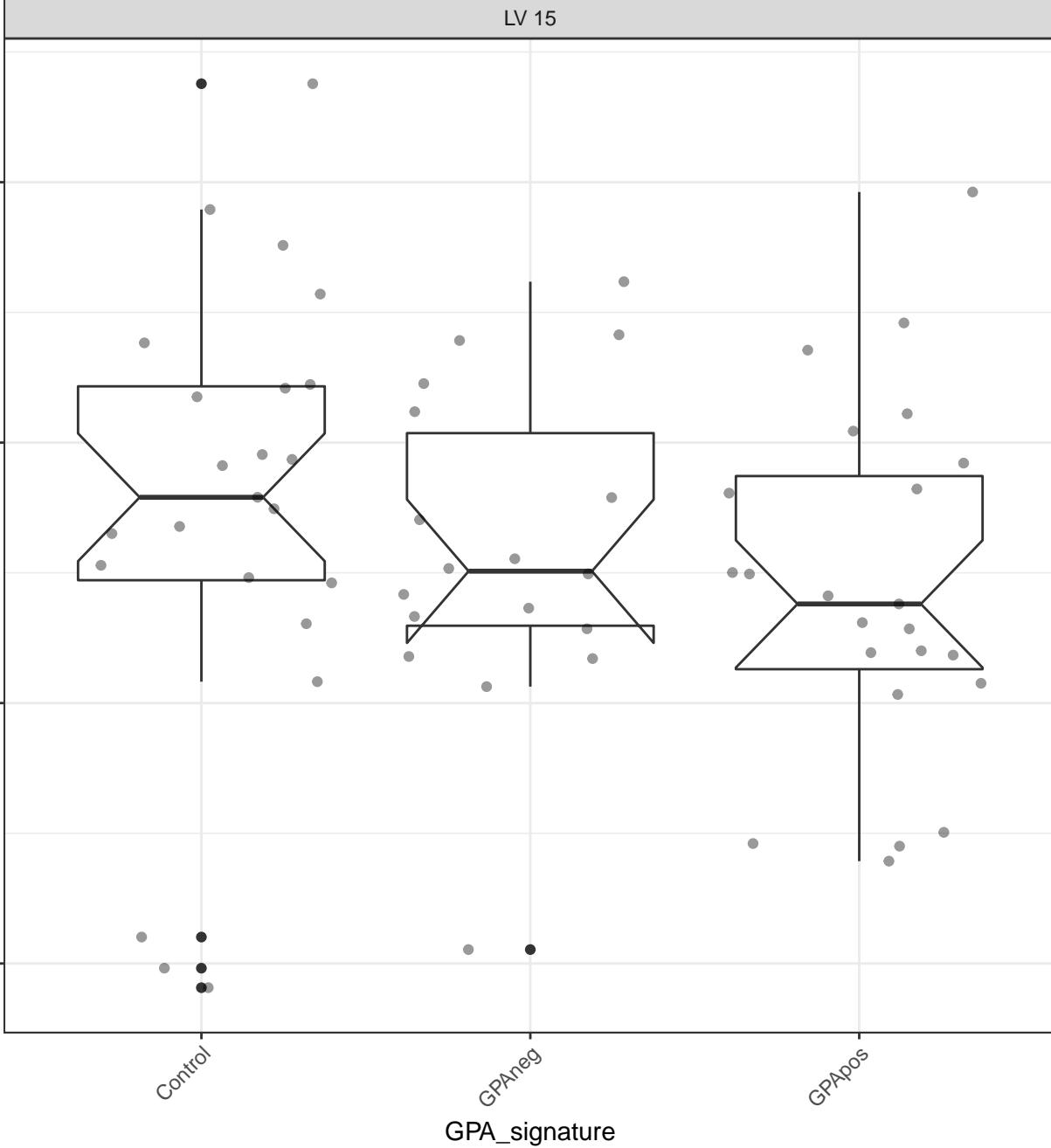
-0.12

Control

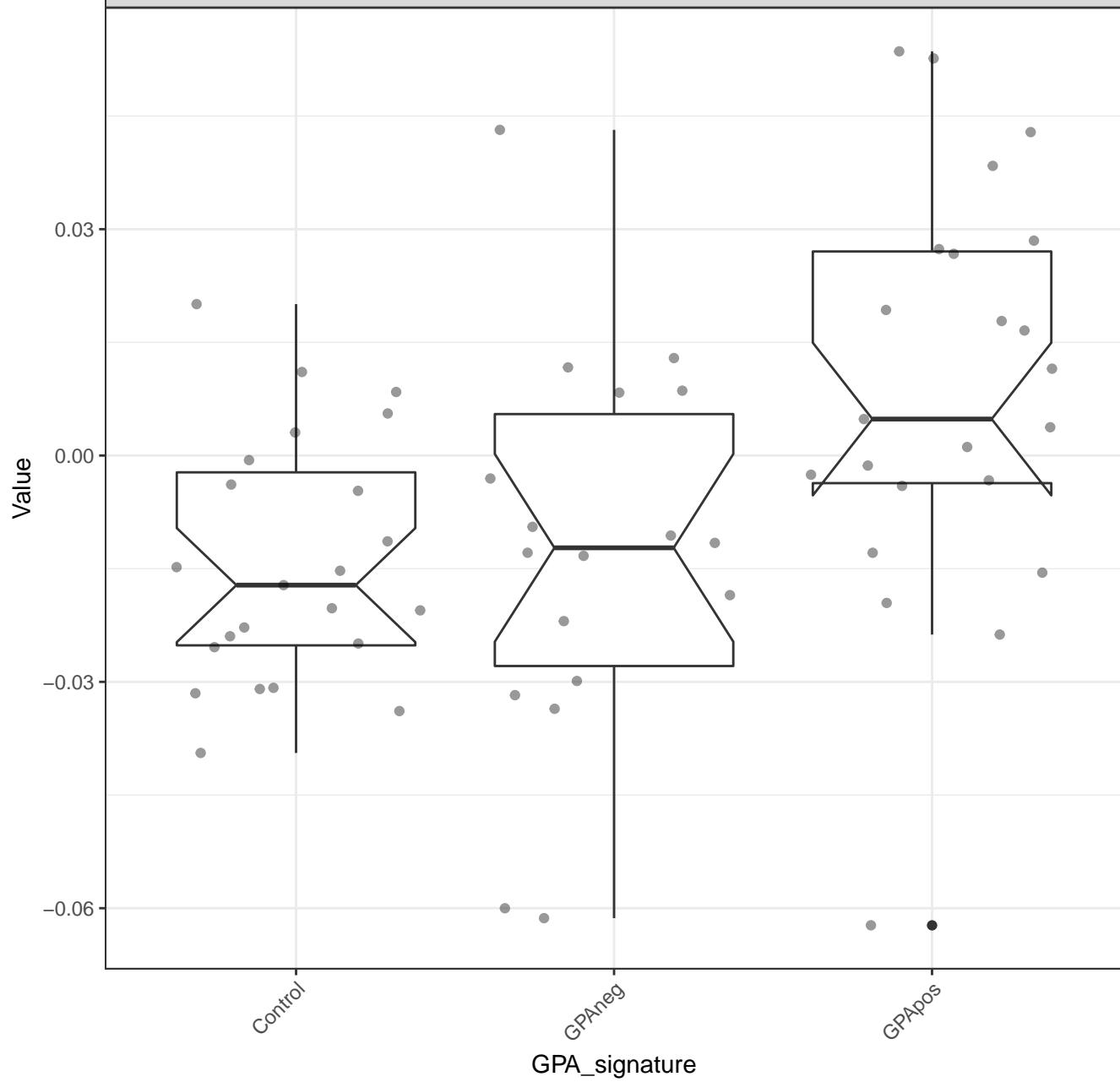
GPAneg

GPApos

GPA\_signature



## LV 16



## 17,SVM NK cells resting

Value

0.15

0.10

0.05

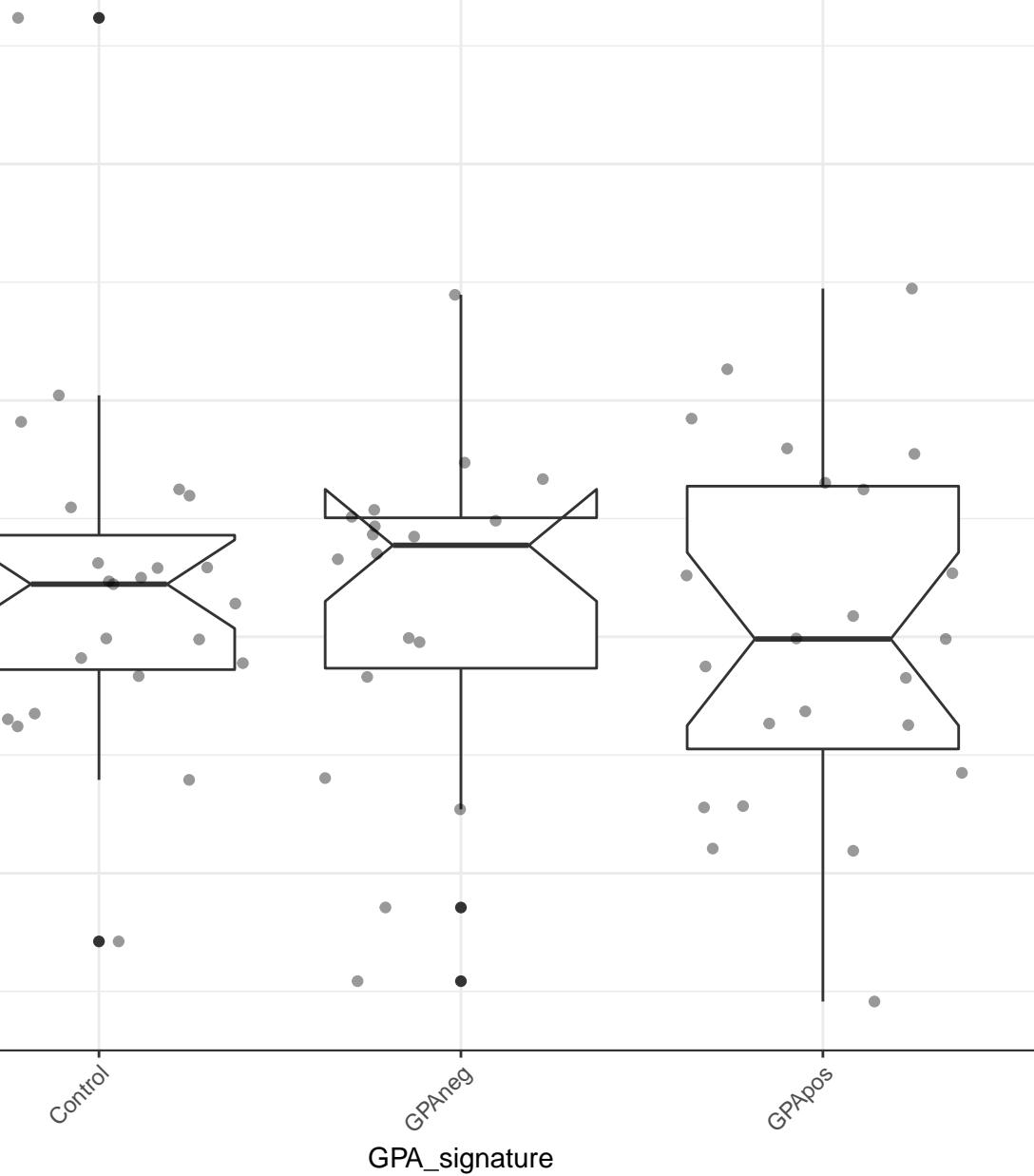
0.00

Control

GPA\_signature

GPAneg

GPAPos



# 18,REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS

Value

0.00

-0.05

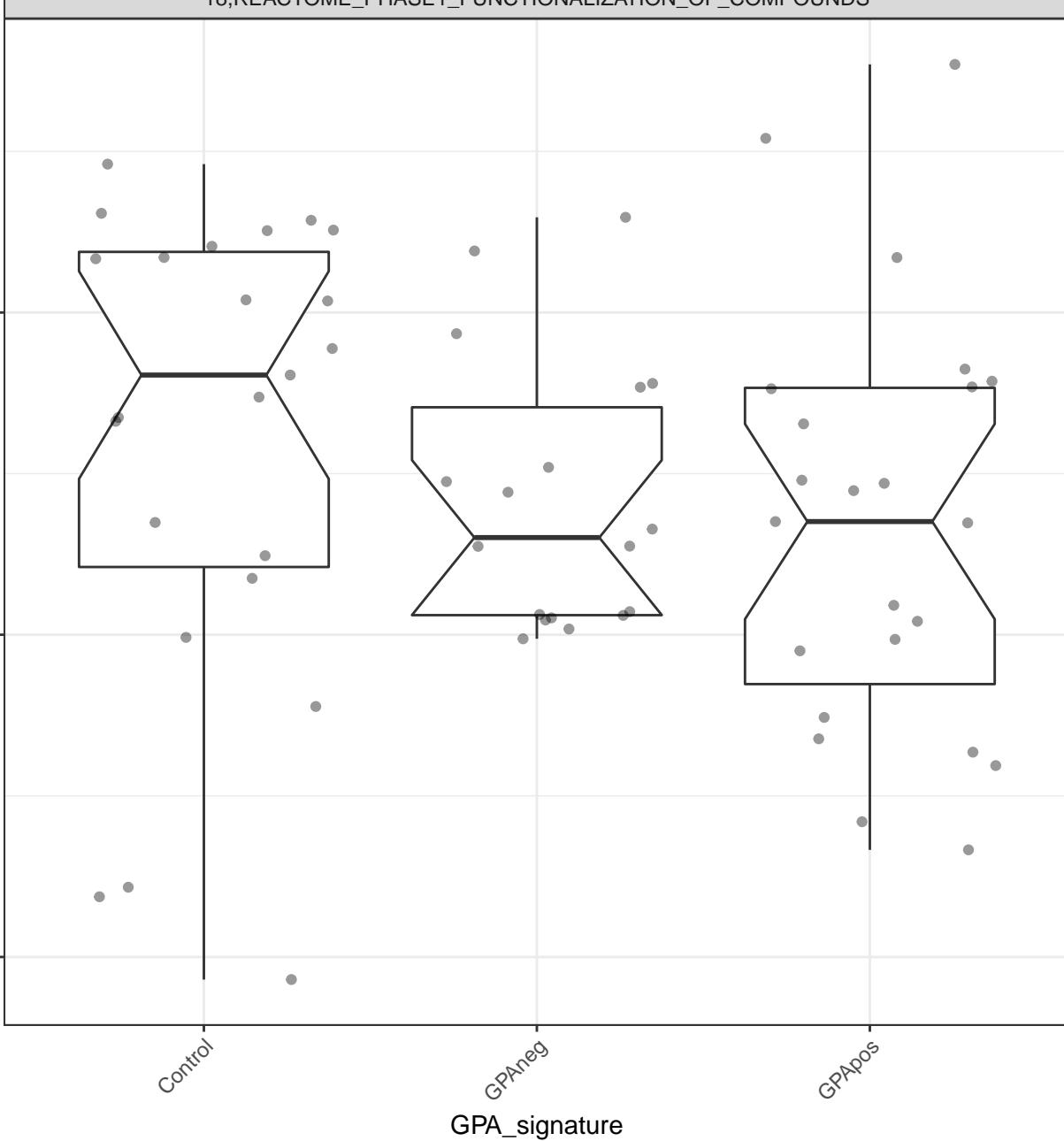
-0.10

Control

GPAneg

GPApos

GPA\_signature



LV 19

Value

0.05

0.01

-0.05

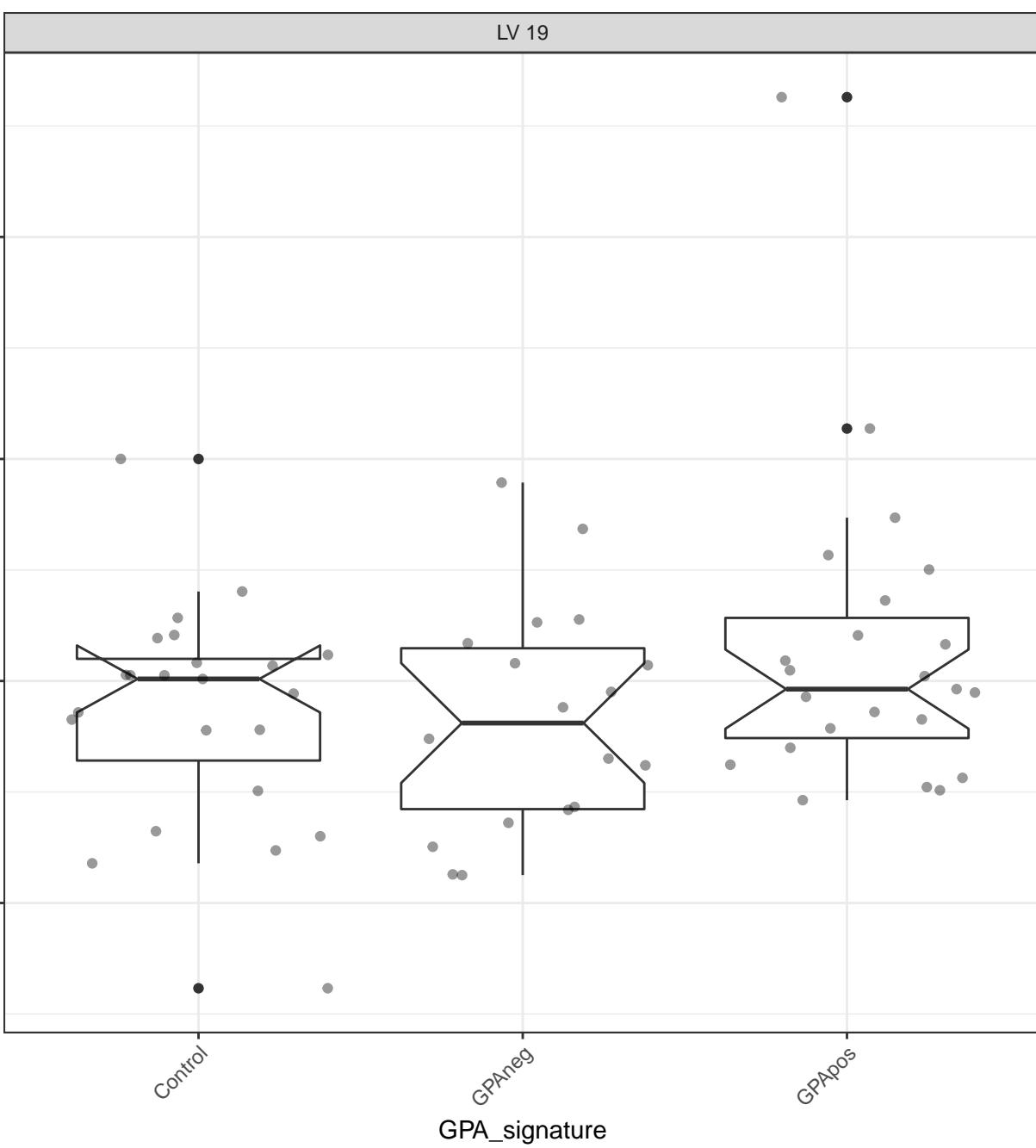
-0.10

Control

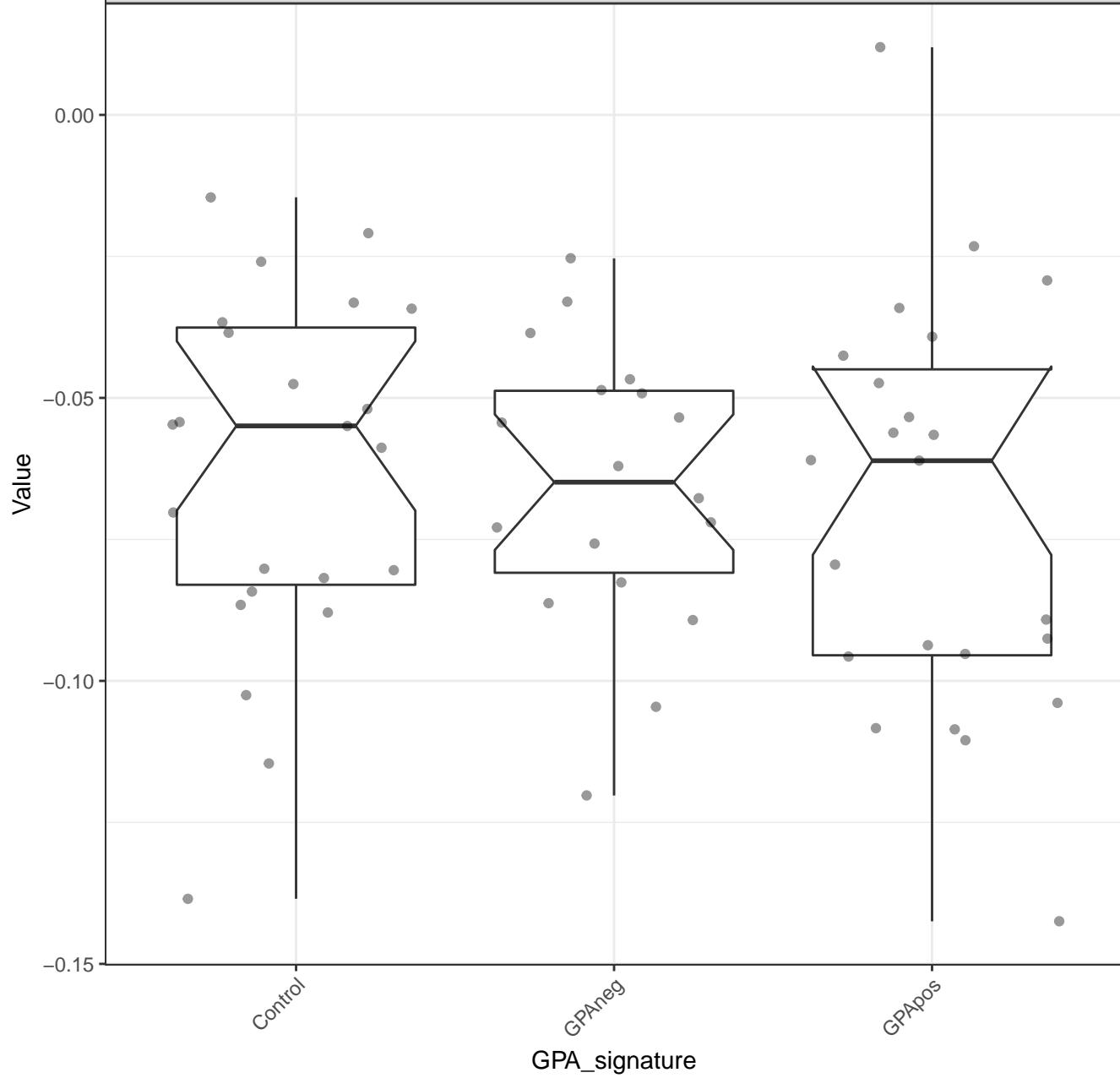
GPAneg

GPApos

GPA\_signature



## 20,KEGG\_NEUROACTIVE\_LIGAND\_RECEPTOR\_INTERACTION



## LV 21

Value

0.25

0.20

0.15

0.10

0.05

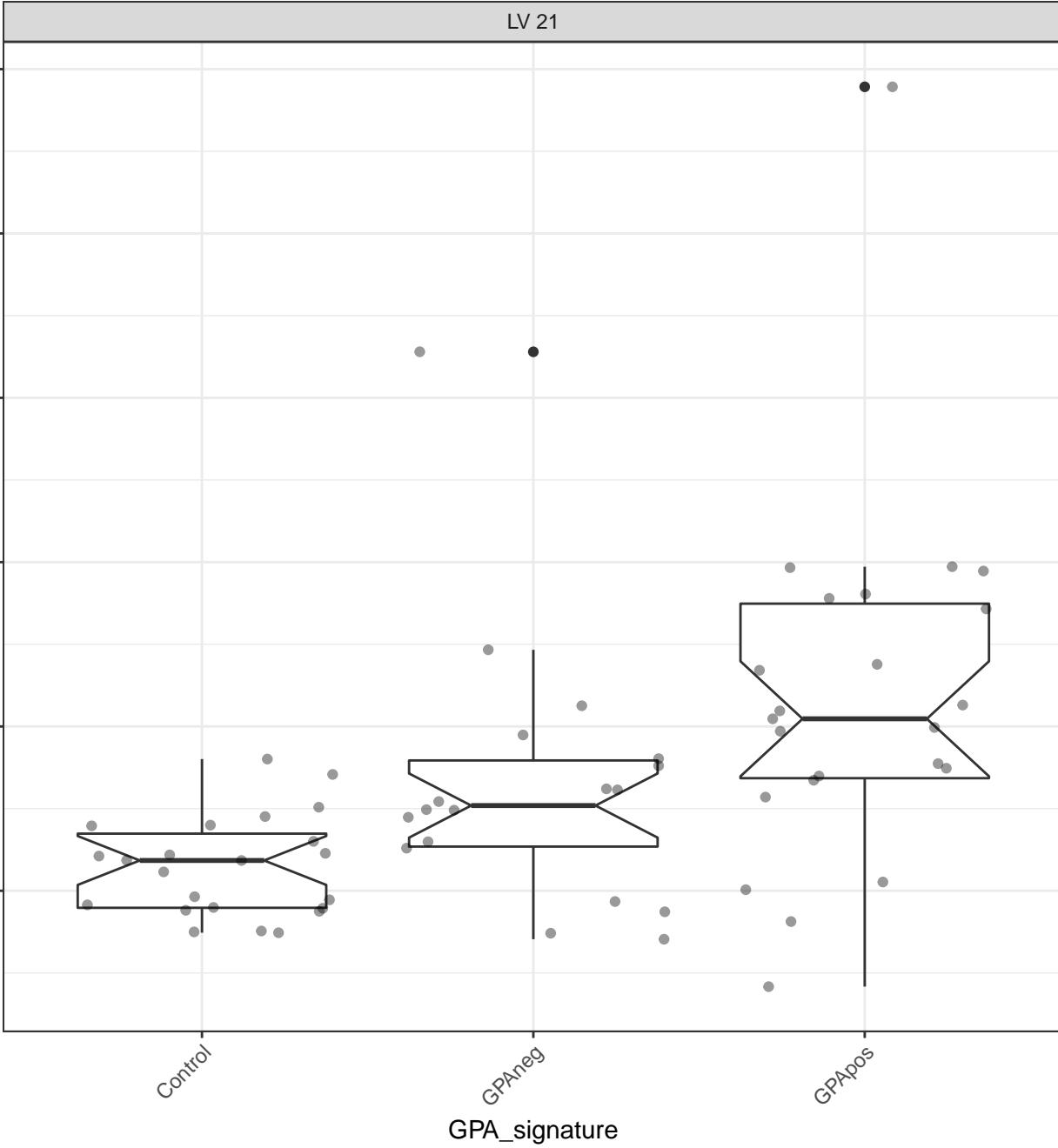
0.00

Control

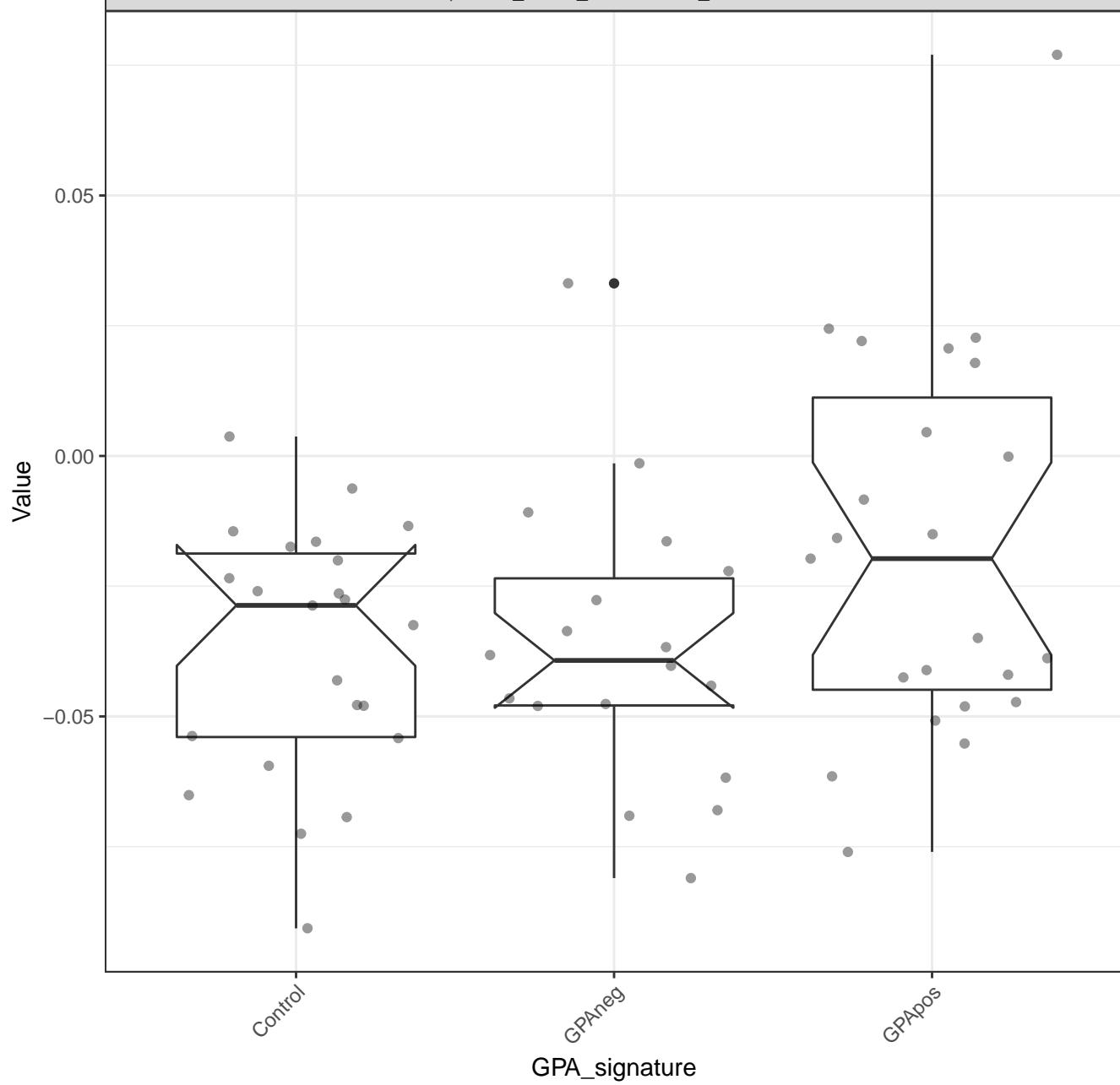
GPA\_signature

GPAneg

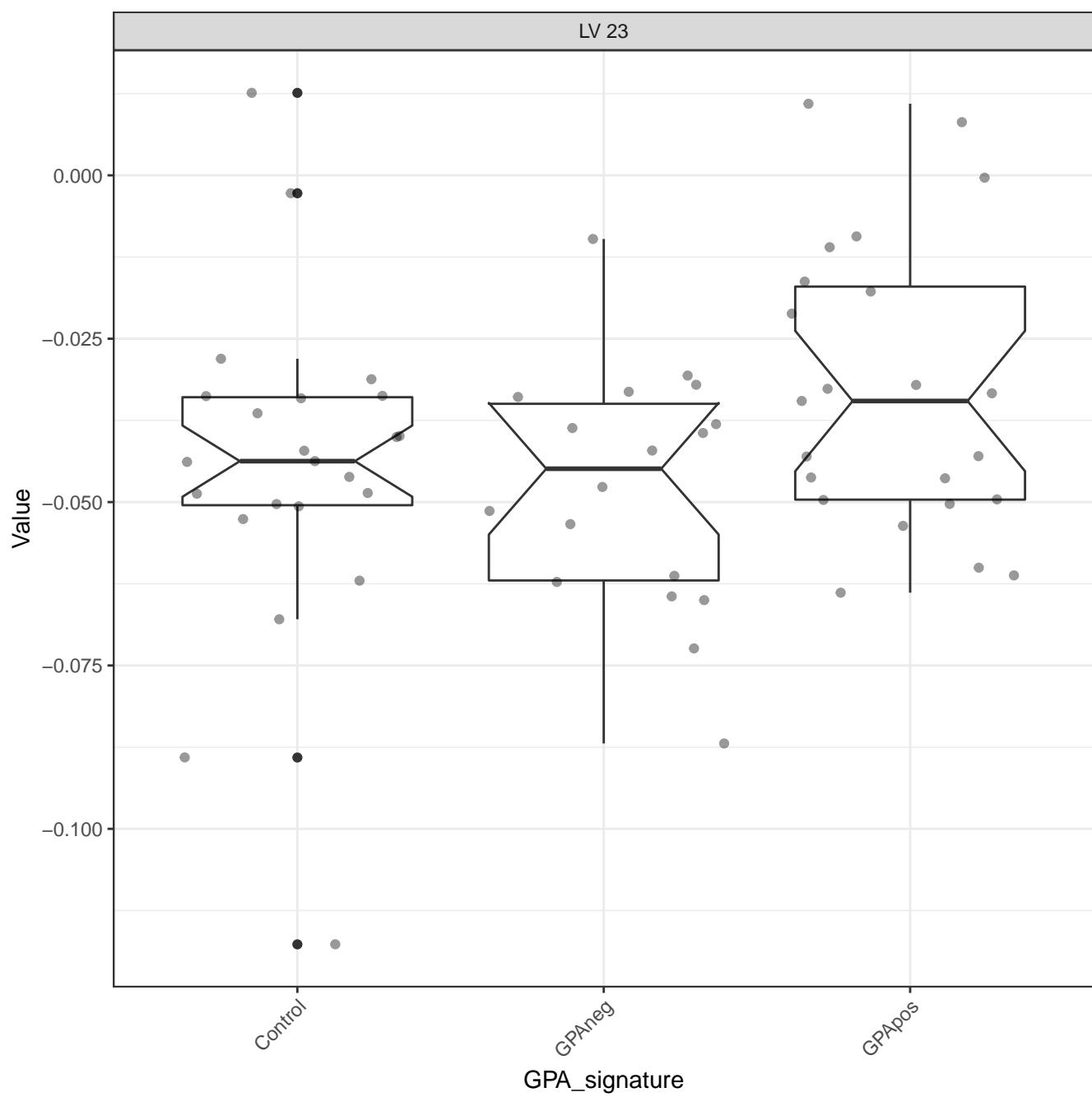
GPApos



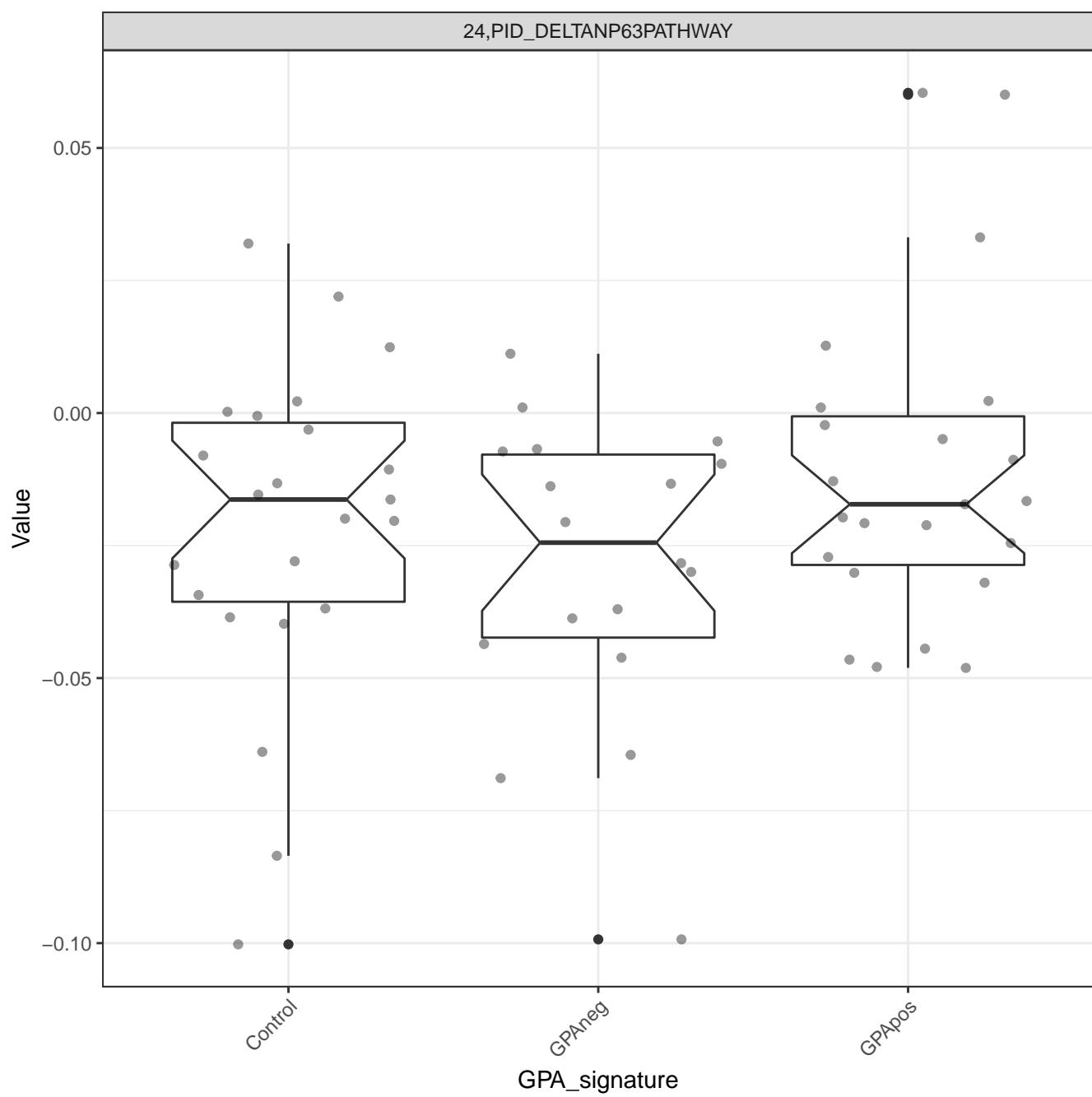
## 22,KEGG\_PPAR\_SIGNALING\_PATHWAY



## LV 23



## 24,PID\_DELTANP63PATHWAY



## 25,SVM Macrophages M1

Value

0.3

0.2

0.1

0.0

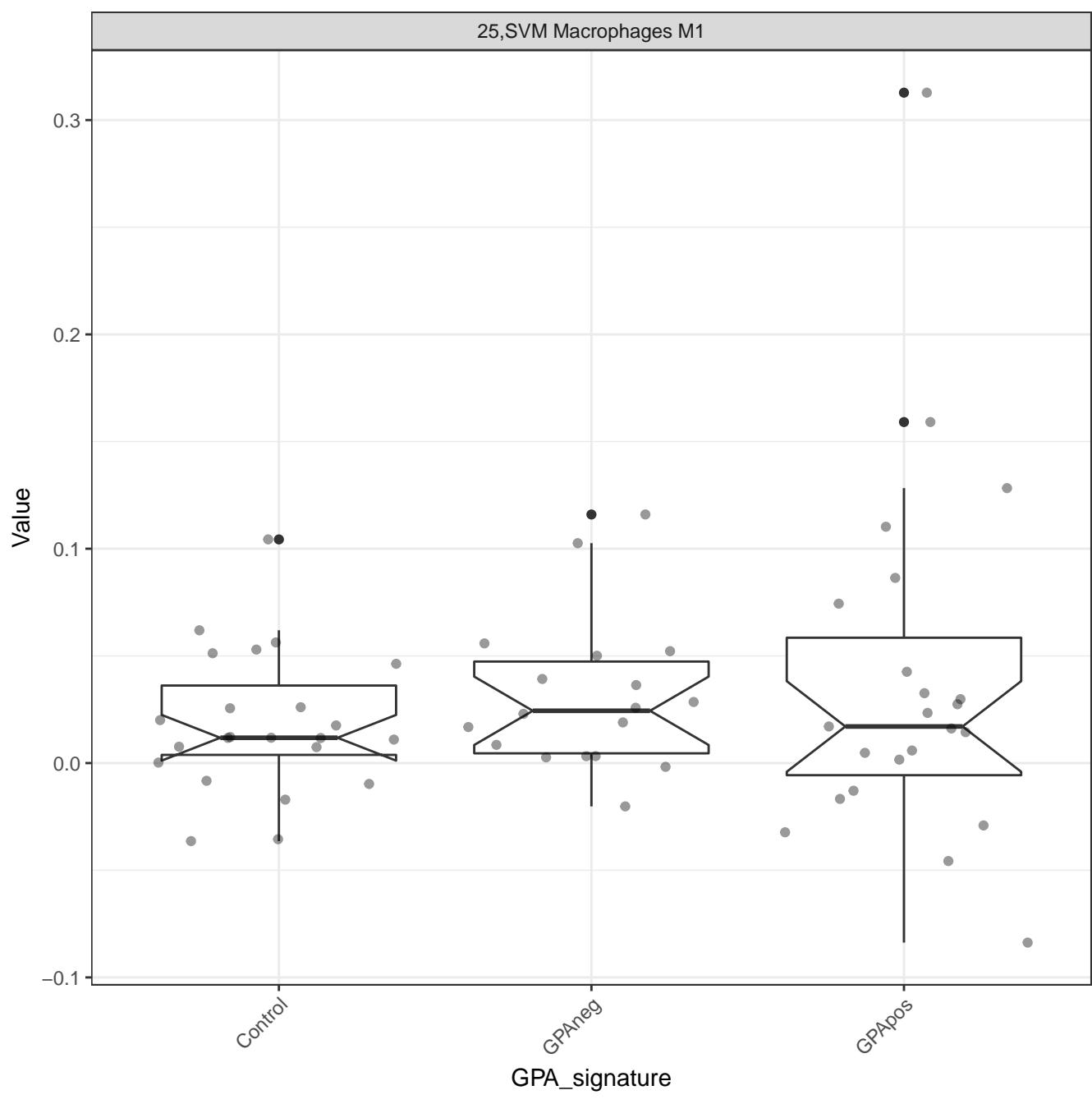
-0.1

Control

GPA\_signature

GPAneg

GPAPos



## 26,SVM Macrophages M2

Value

0.05

0.00

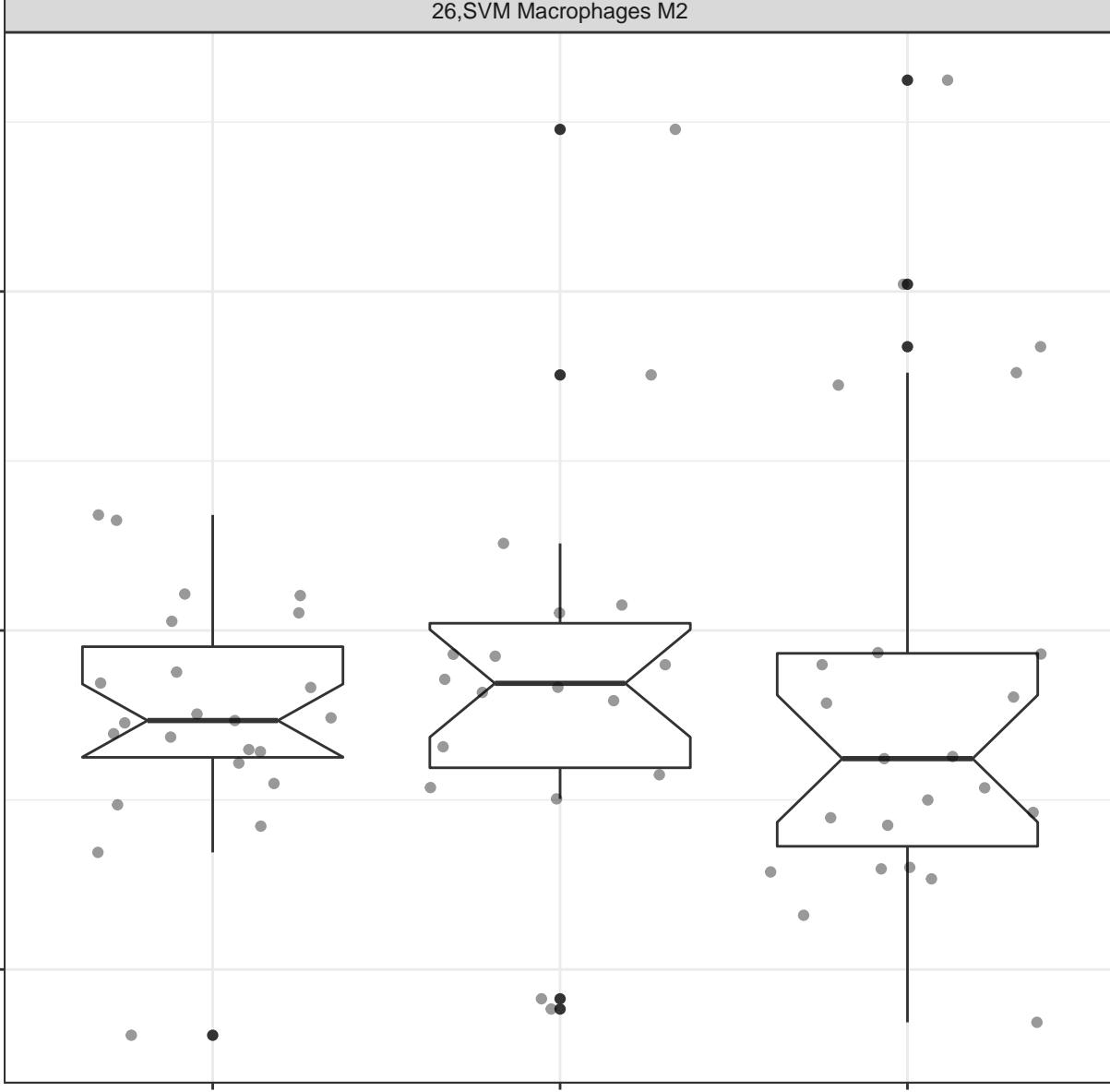
-0.05

Control

GPA\_signature

GPAneg

GPAPos



## 27,REACTOME\_CELL\_JUNCTION\_ORGANIZATION

Value

0.05

0.01

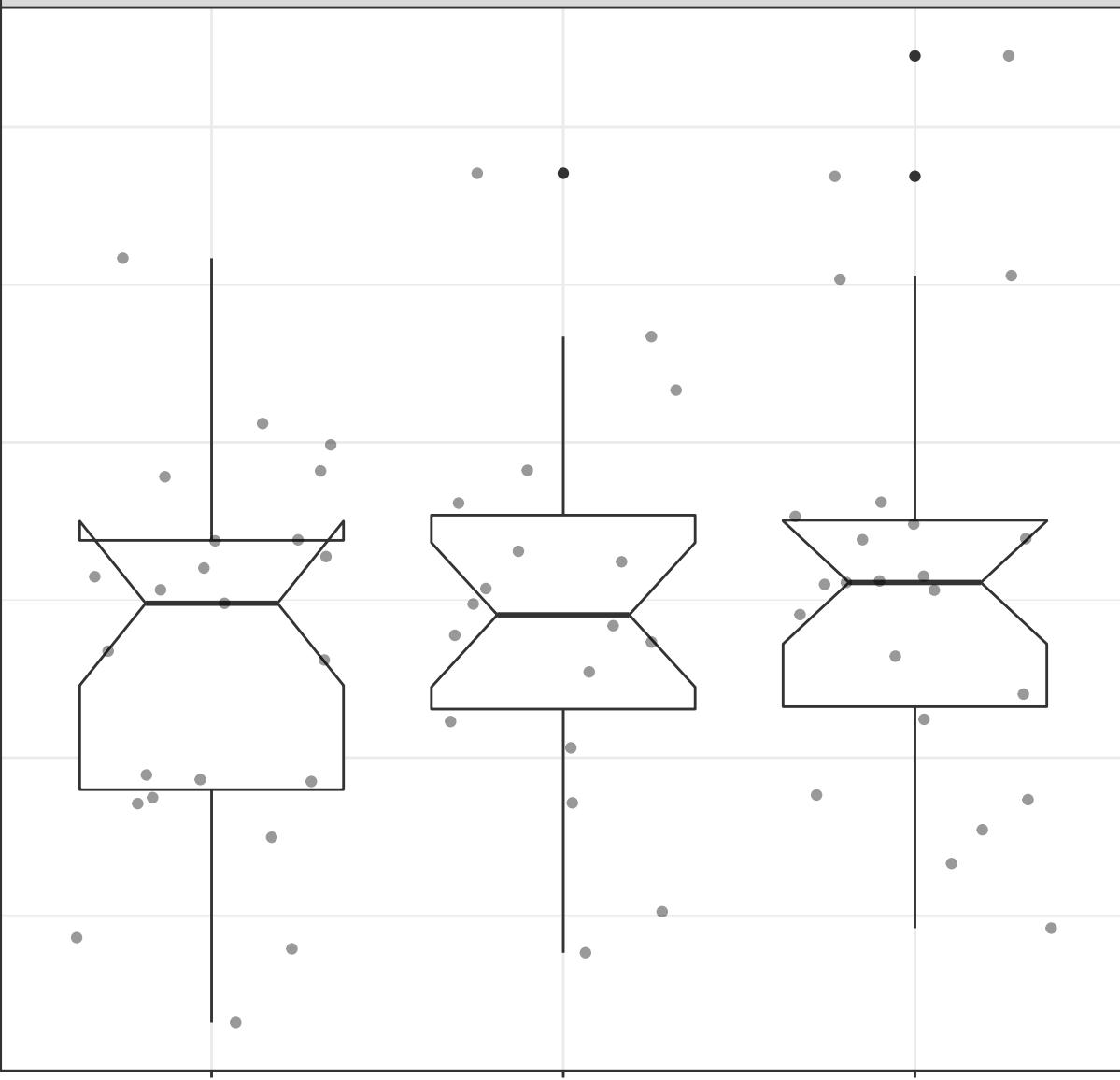
-0.05

Control

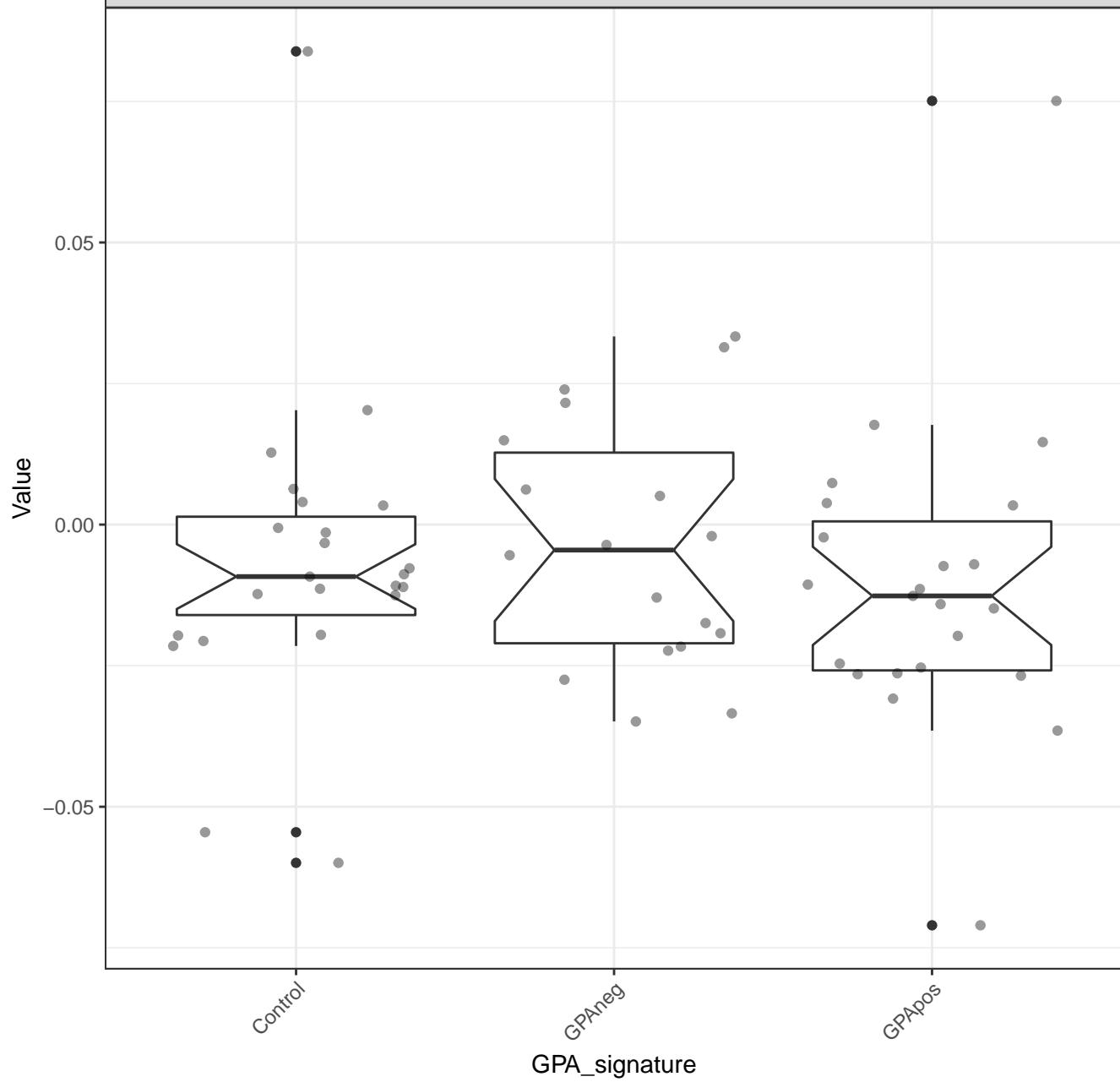
GPA\_signature

GPAneg

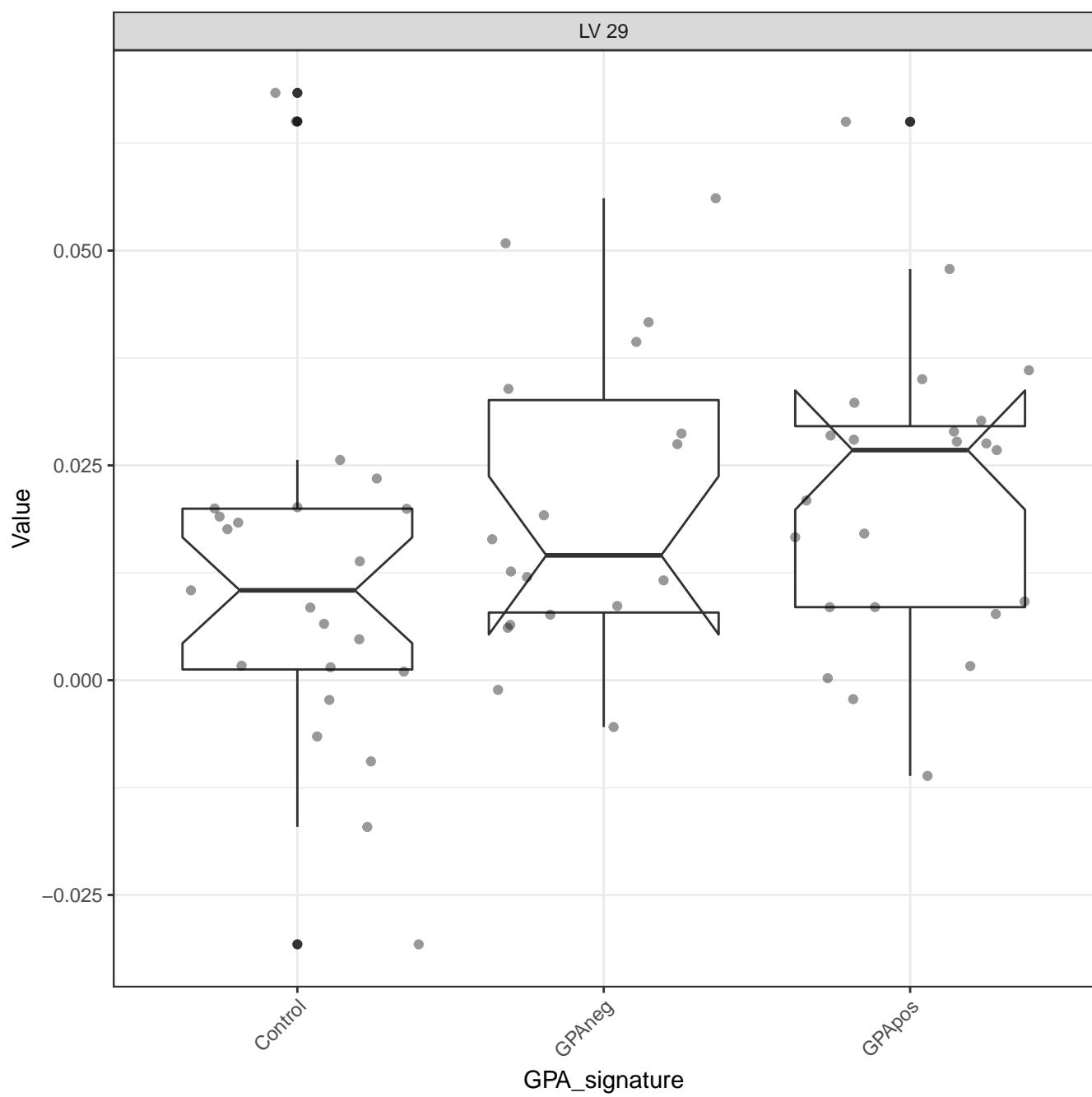
GPAPos



LV 28



## LV 29



## 30,DMAP\_ERY3

Value

0.8

0.6

0.4

0.2

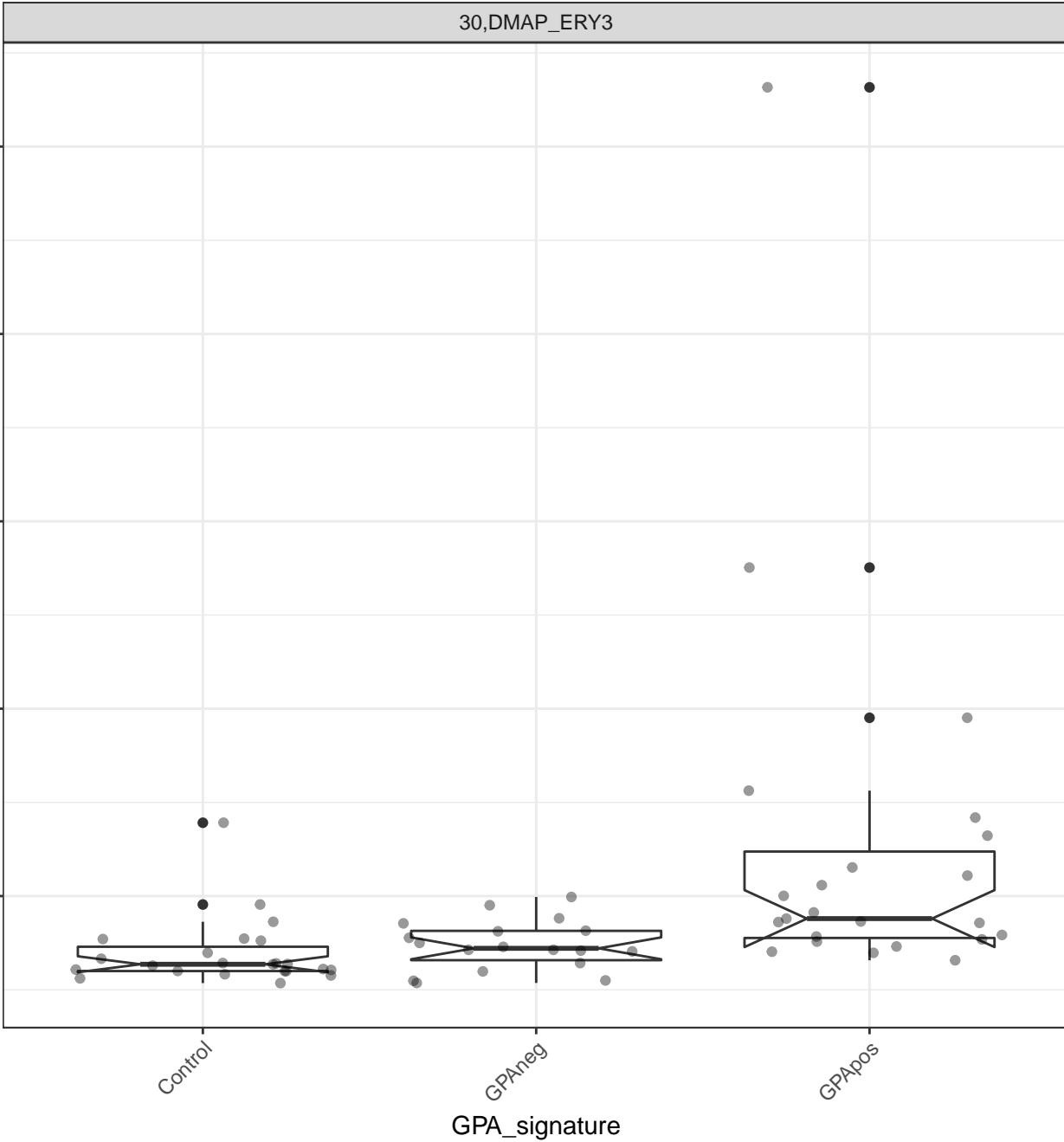
0.0

Control

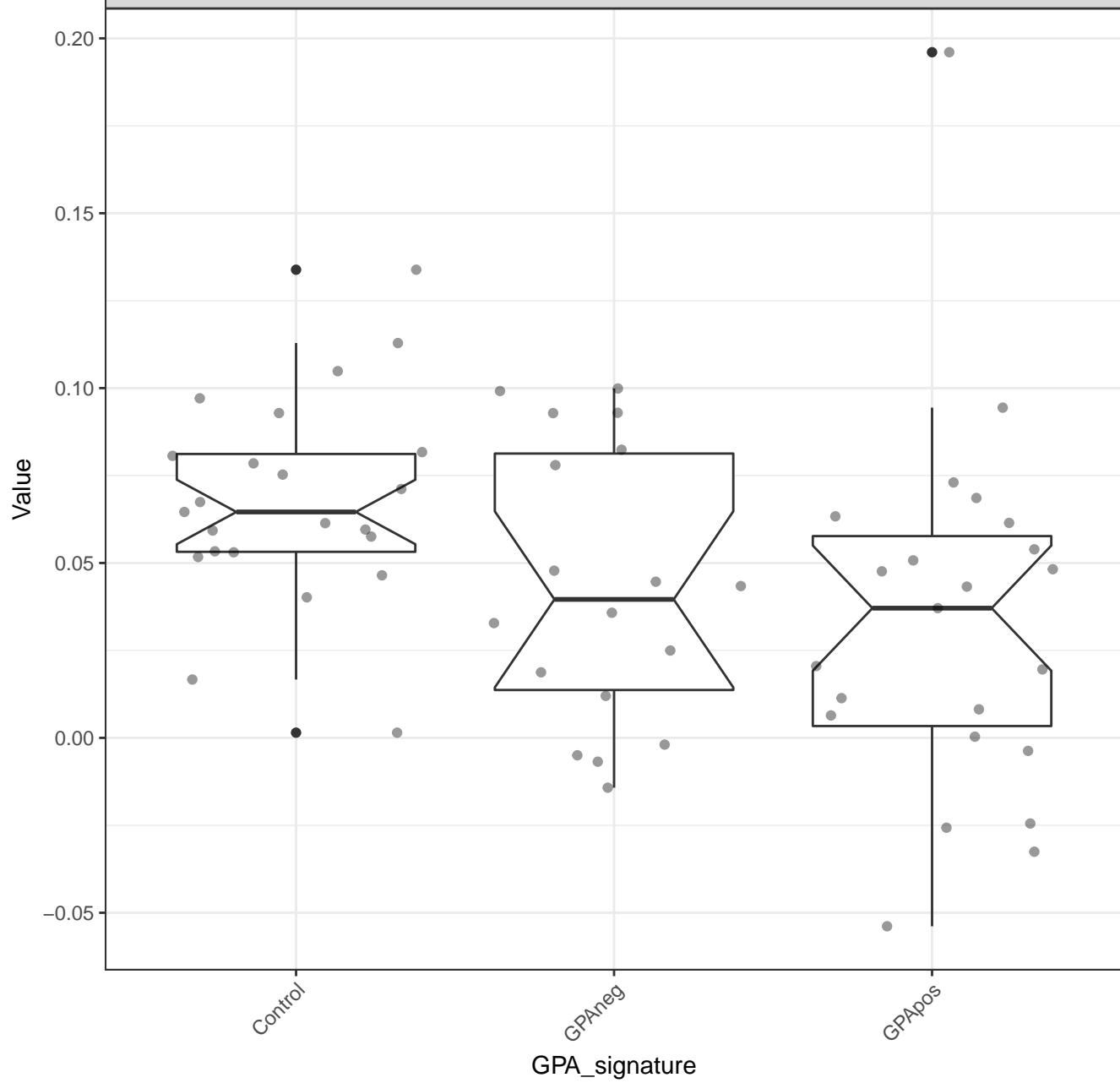
GPAneg

GPAPos

GPA\_signature



## 31,SVM B cells naive



## LV 32

Value

0.05

0.00

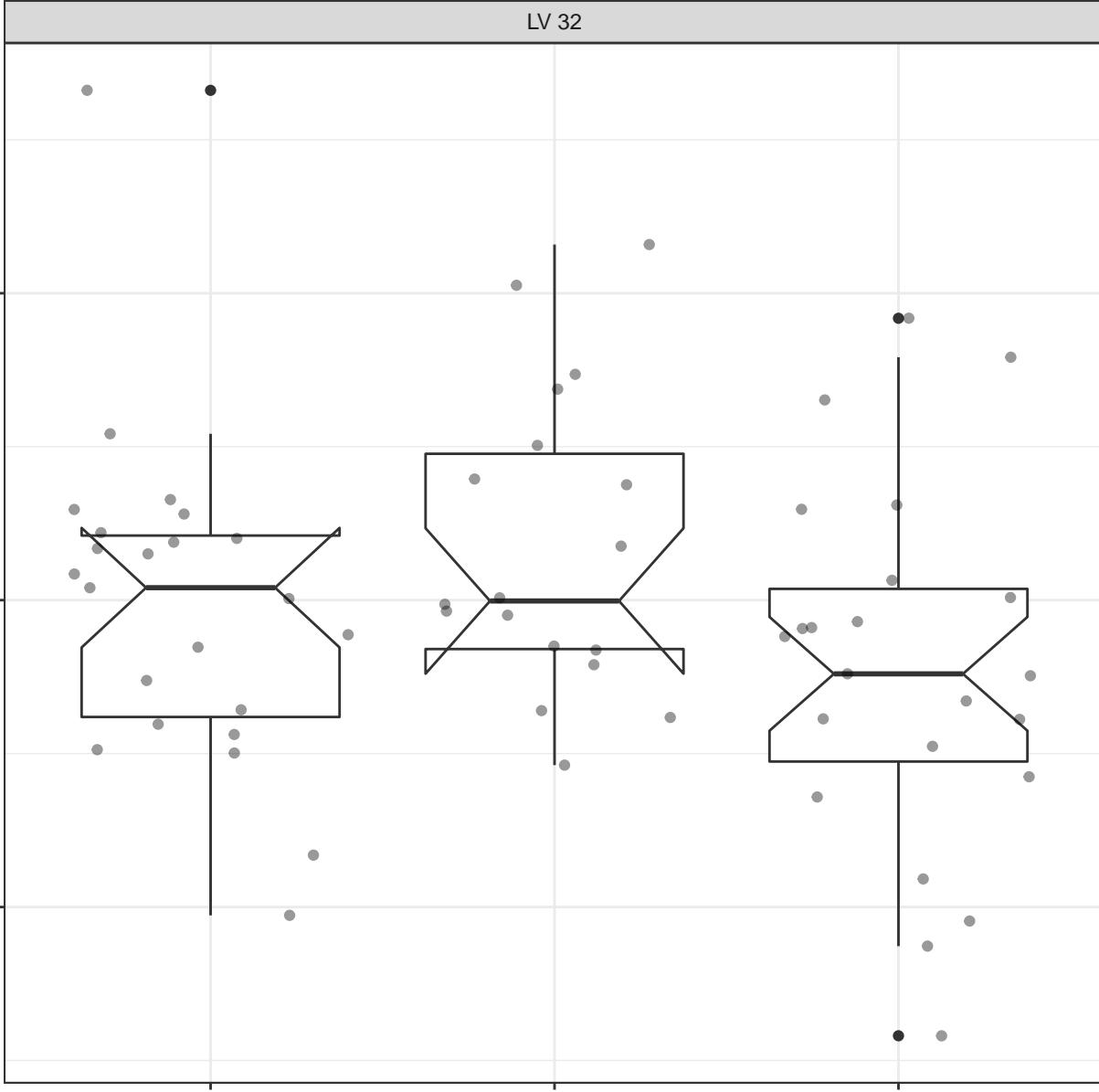
-0.05

Control

GPAneg

GPAPos

GPA\_signature



## LV 33

Value

0.04

0.00

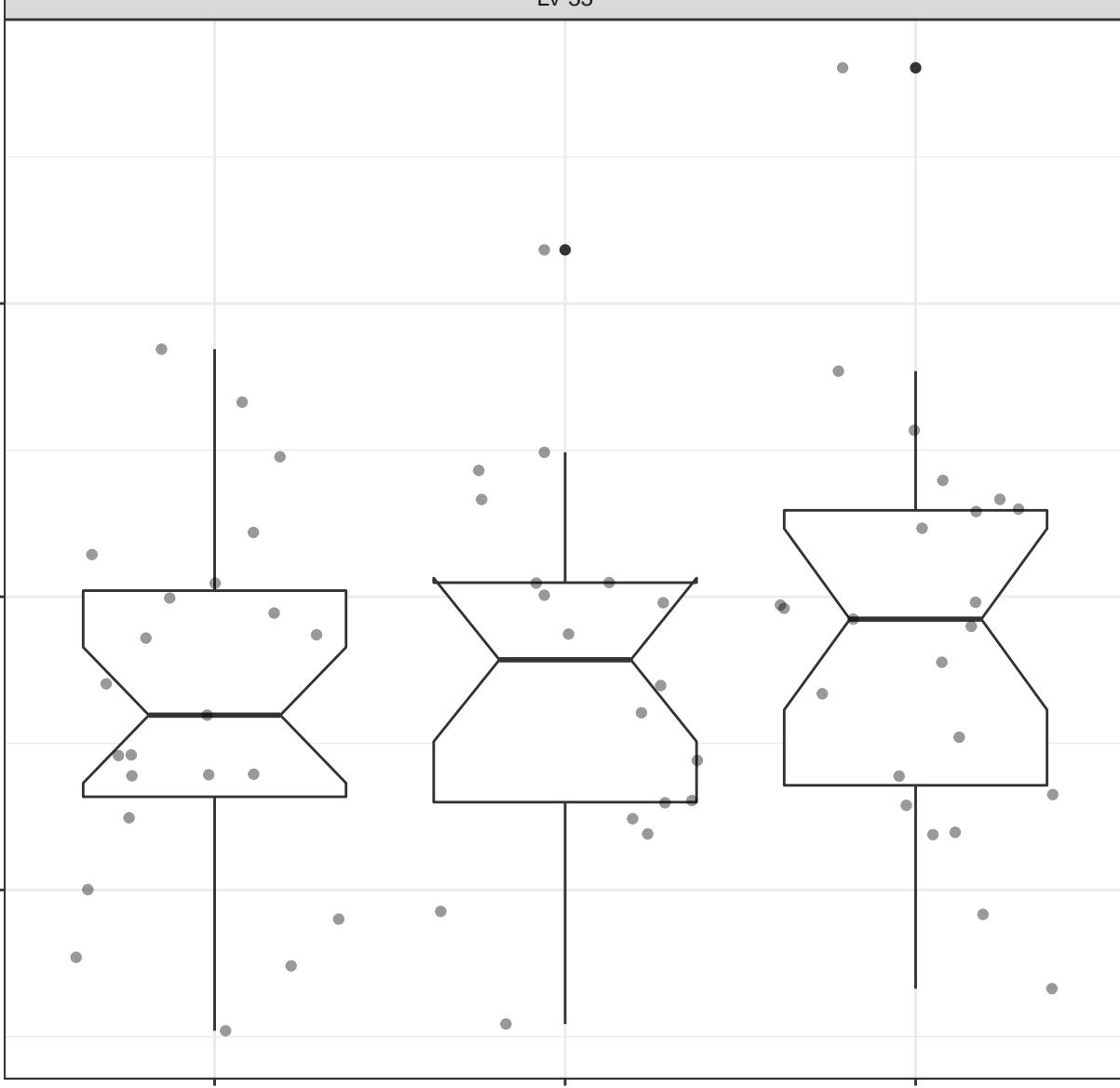
-0.04

Control

GPAneg

GPAPos

GPA\_signature



## LV 34

Value

0.2

0.1

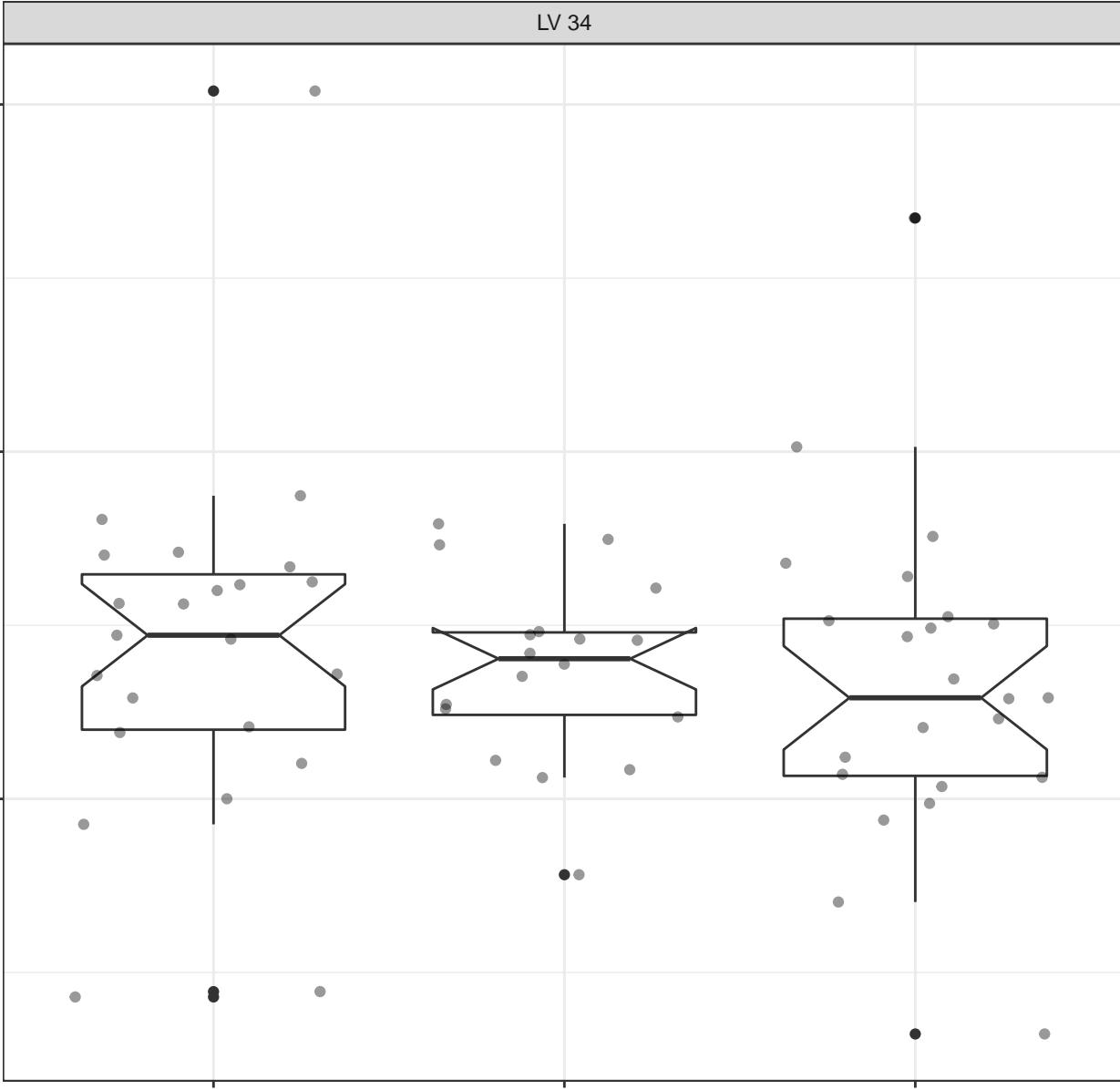
0.0

Control

GPAneg

GPAPos

GPA\_signature



## LV 35

Value

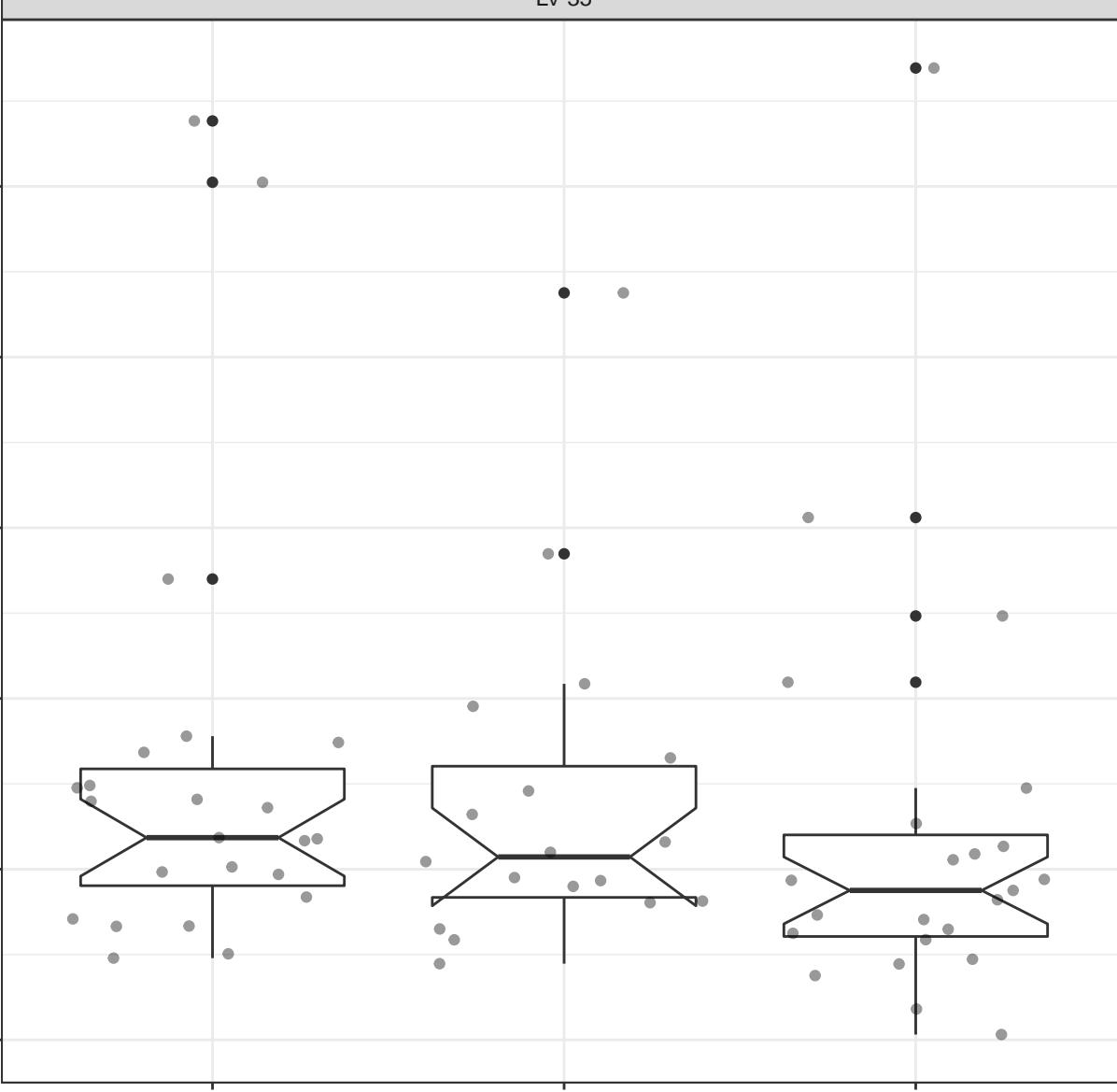
0.20  
0.15  
0.10  
0.05  
0.00  
-0.05

Control

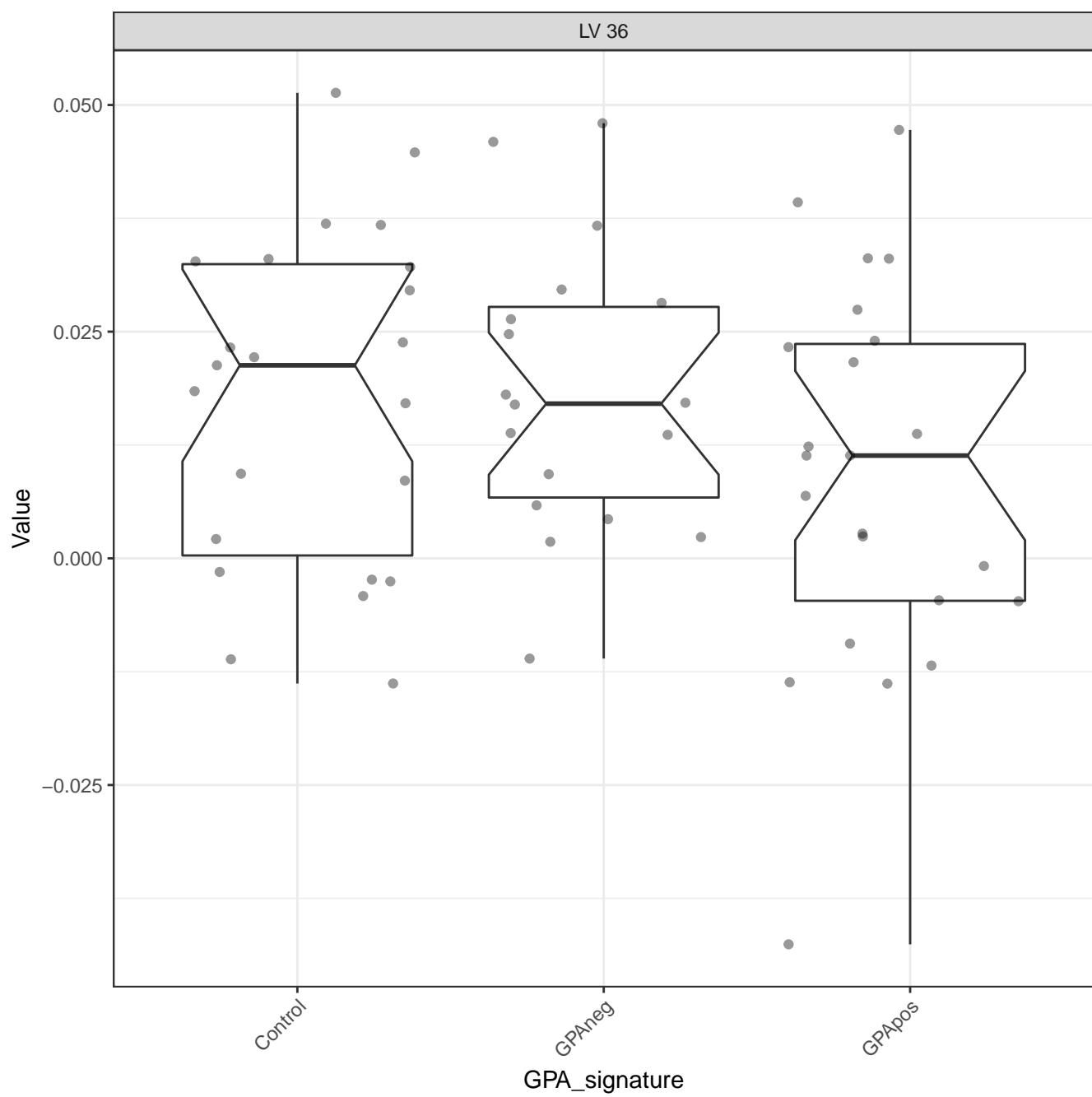
GPAneg

GPAPos

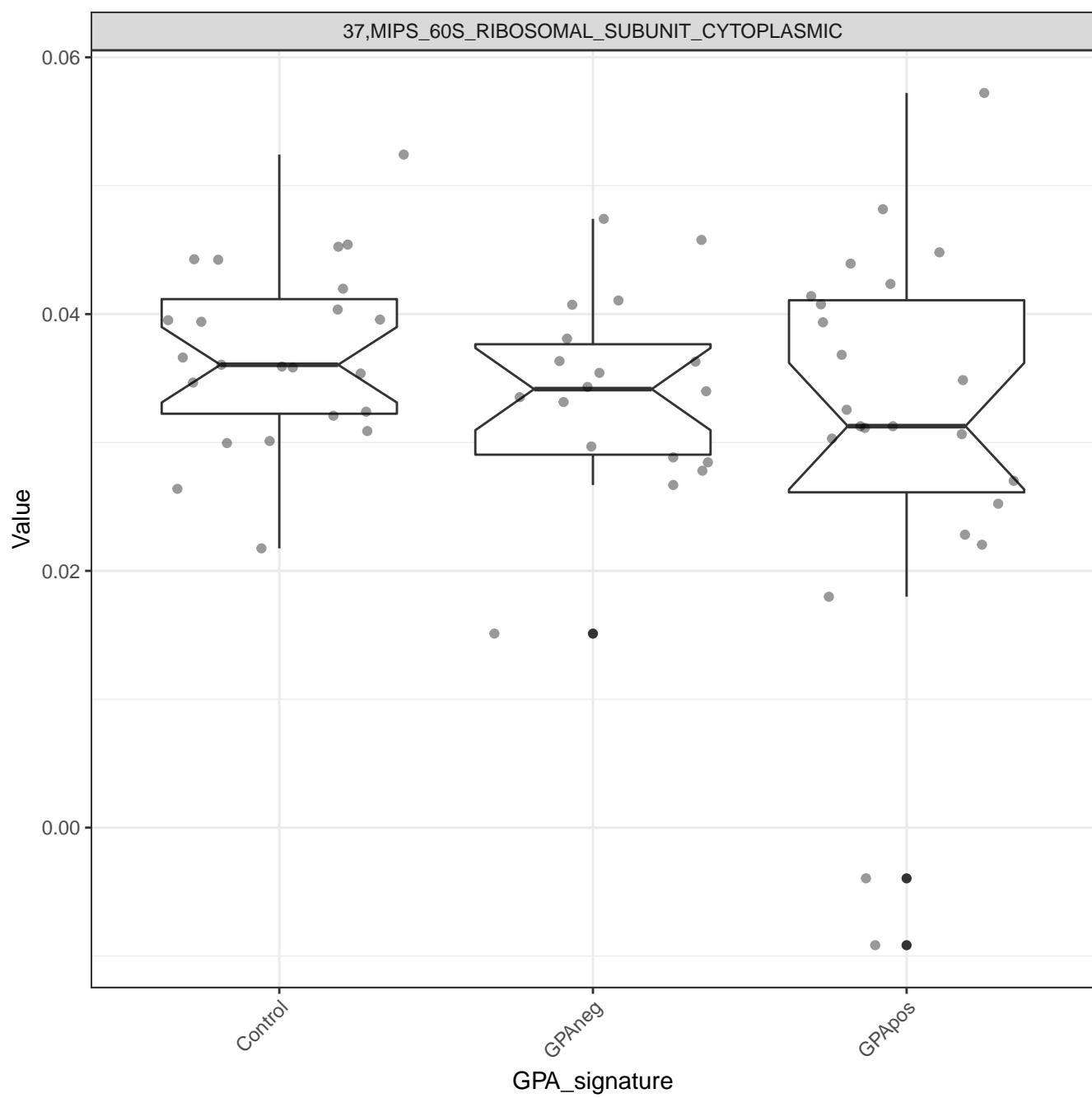
GPA\_signature



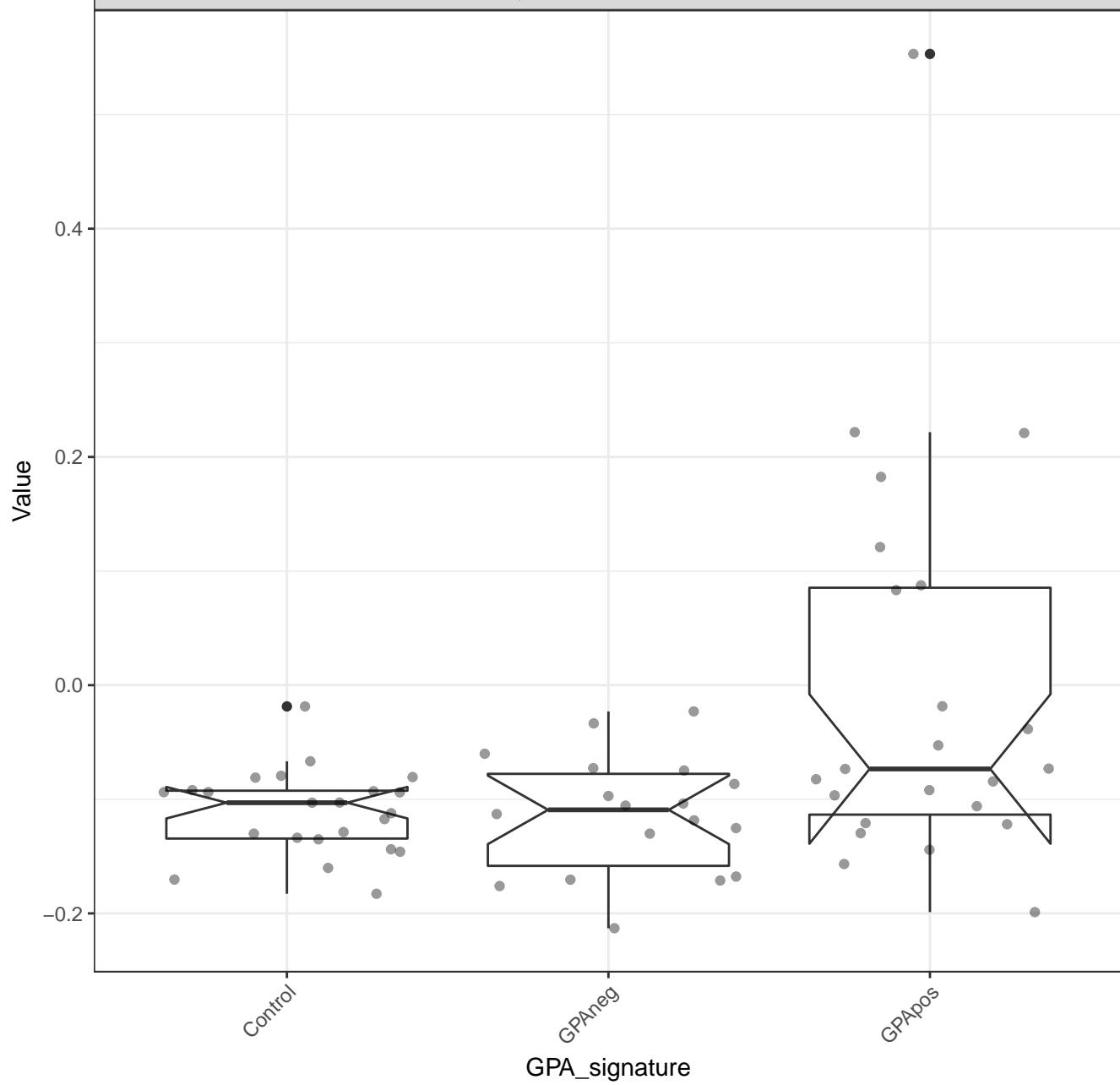
## LV 36



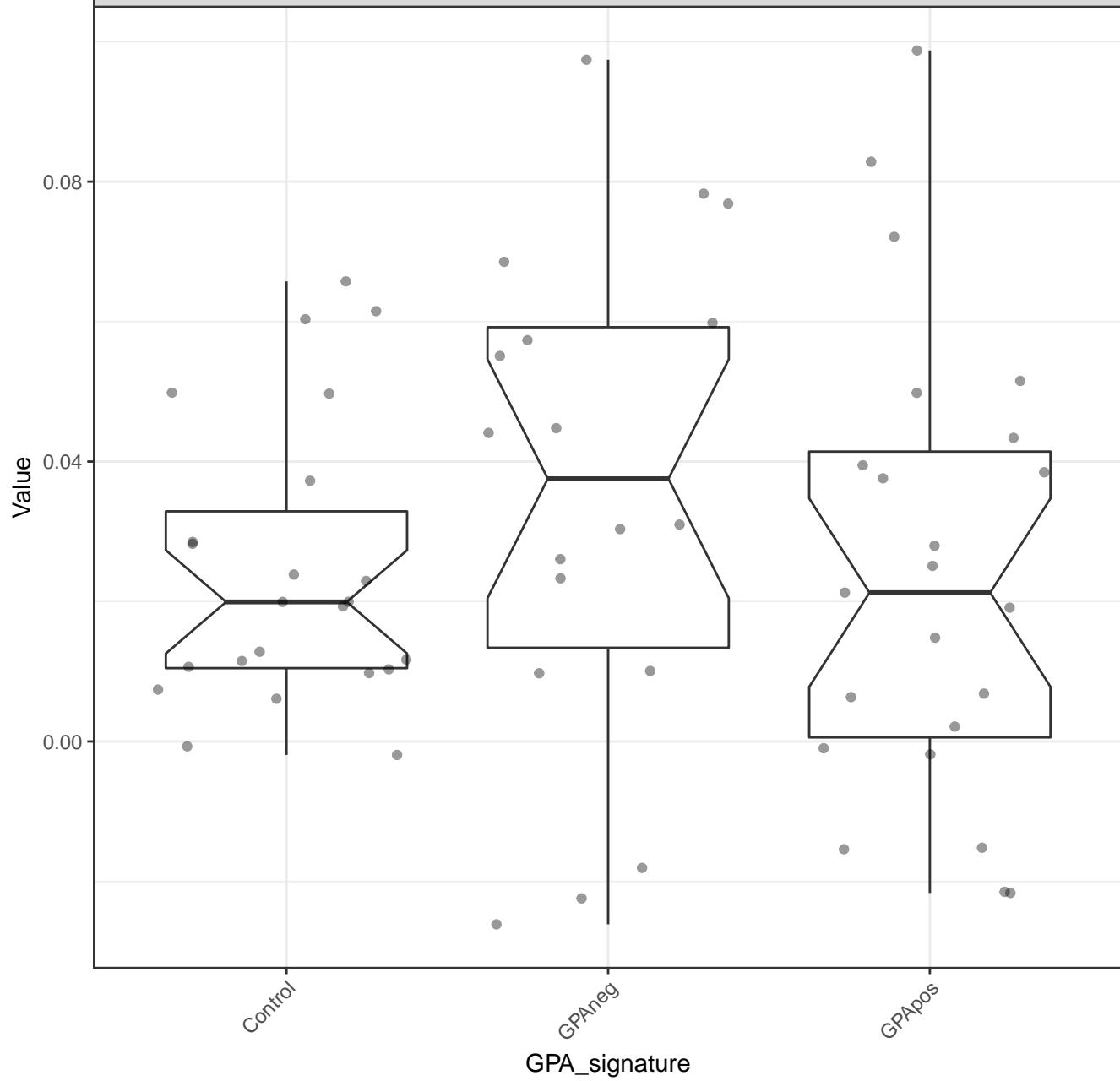
## 37,MIPS\_60S\_RIBOSOMAL\_SUBUNIT\_CYTOPLASMIC



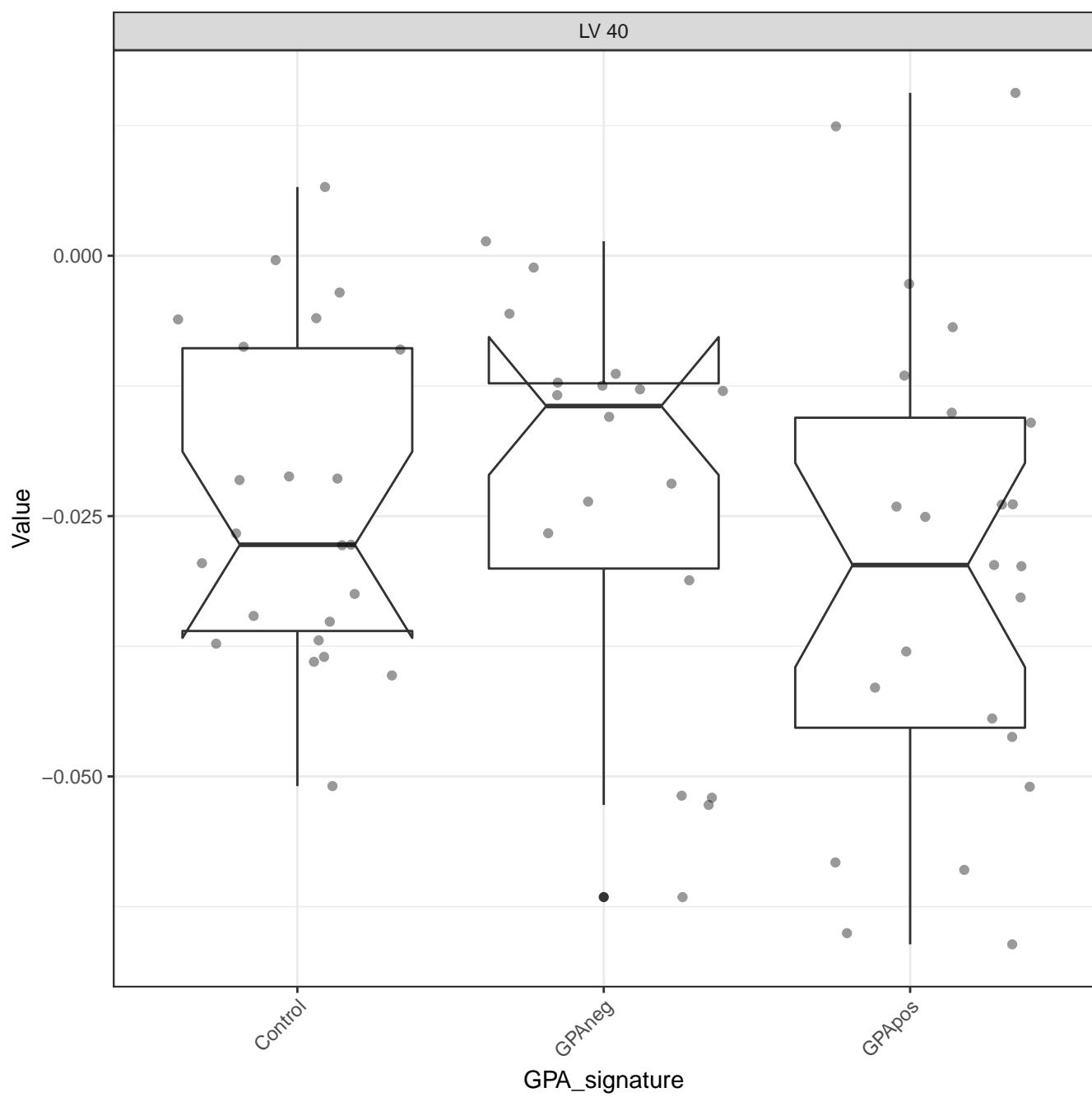
## 38,PID\_PLK1\_PATHWAY



### 39,SVM Dendritic cells resting



## LV 40



## LV 41

Value

0.050

0.025

0.000

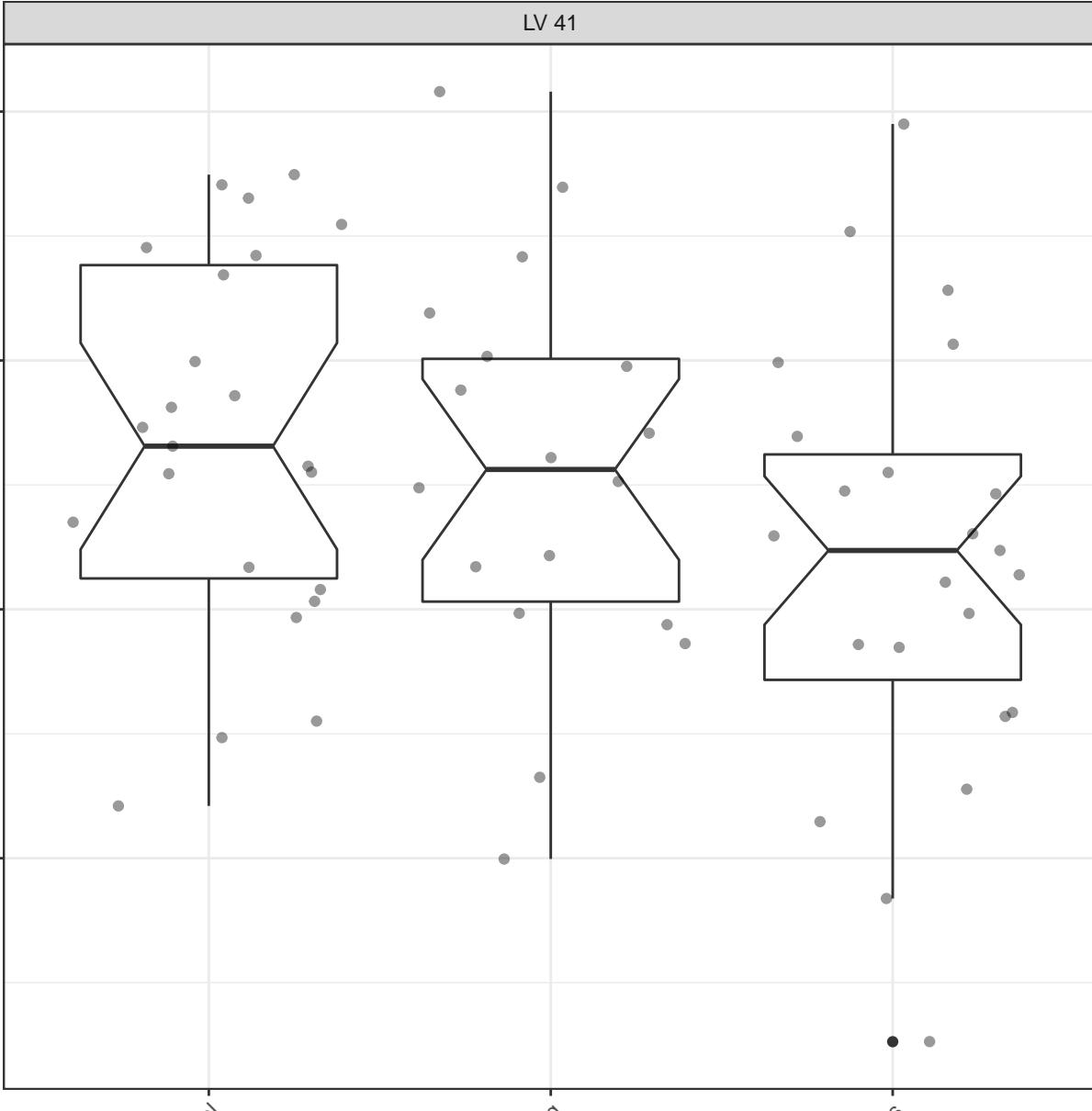
-0.025

Control

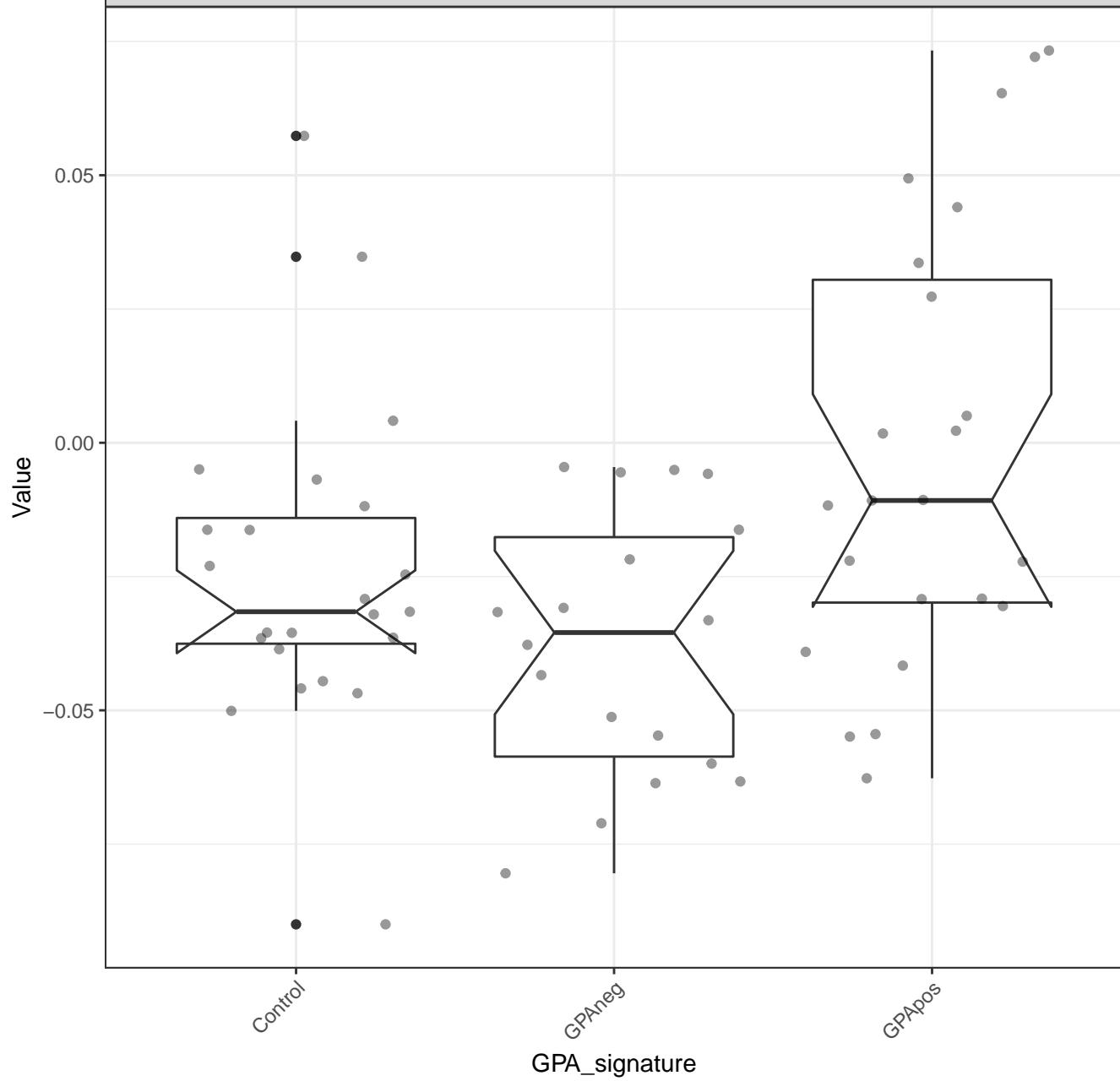
GPAneg

GPAPos

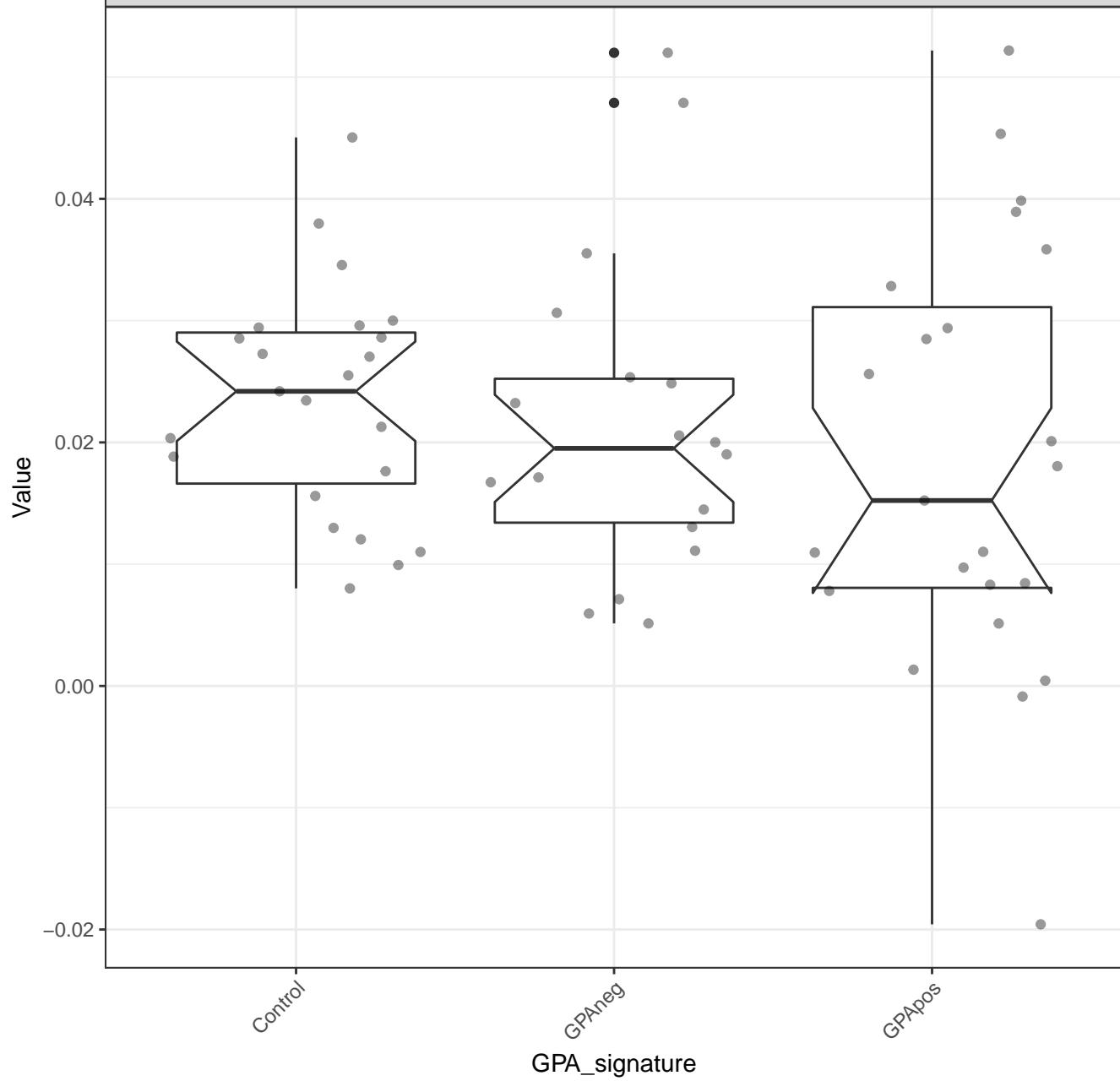
GPA\_signature



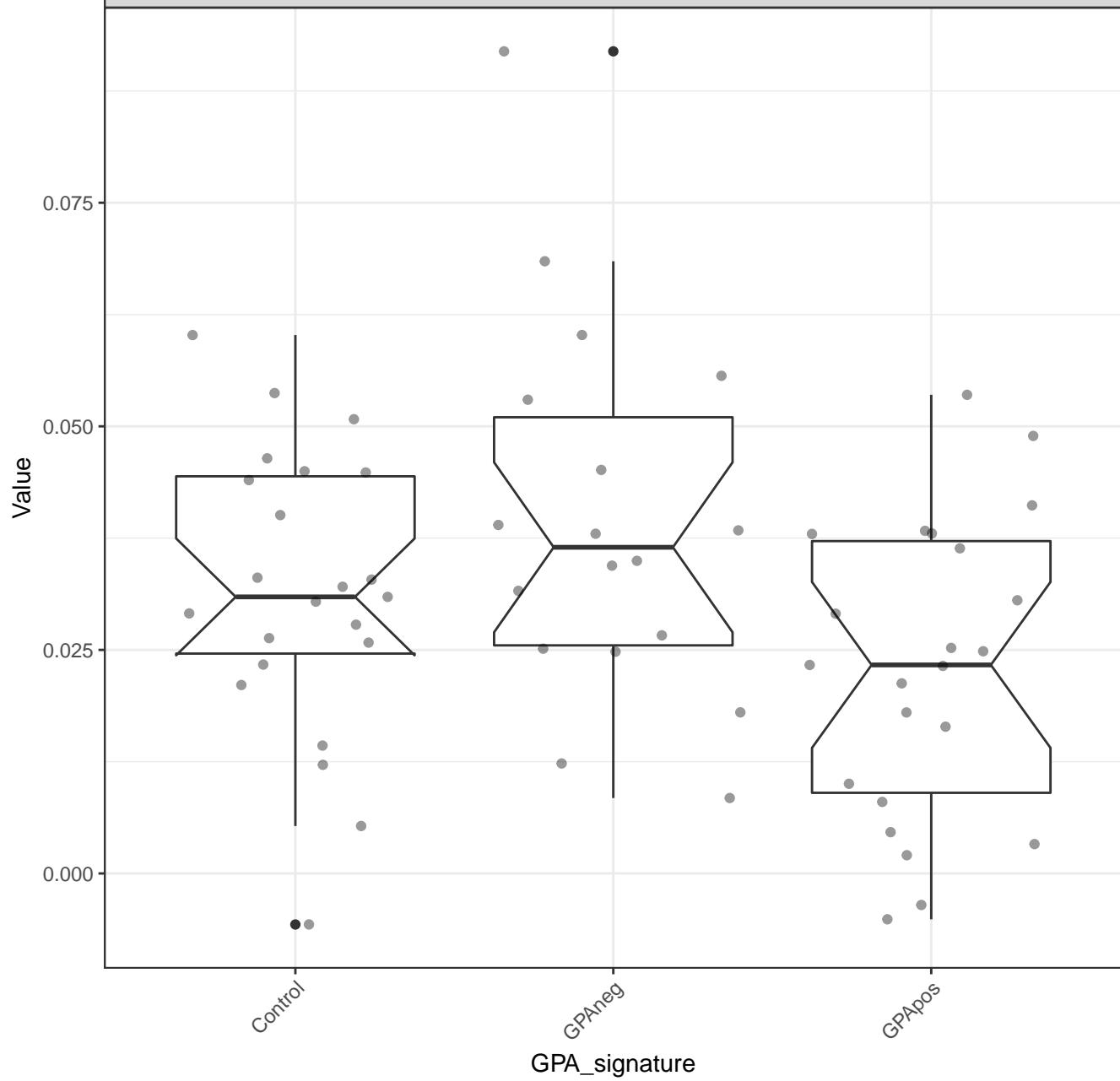
## 42,DMAP\_HSC1



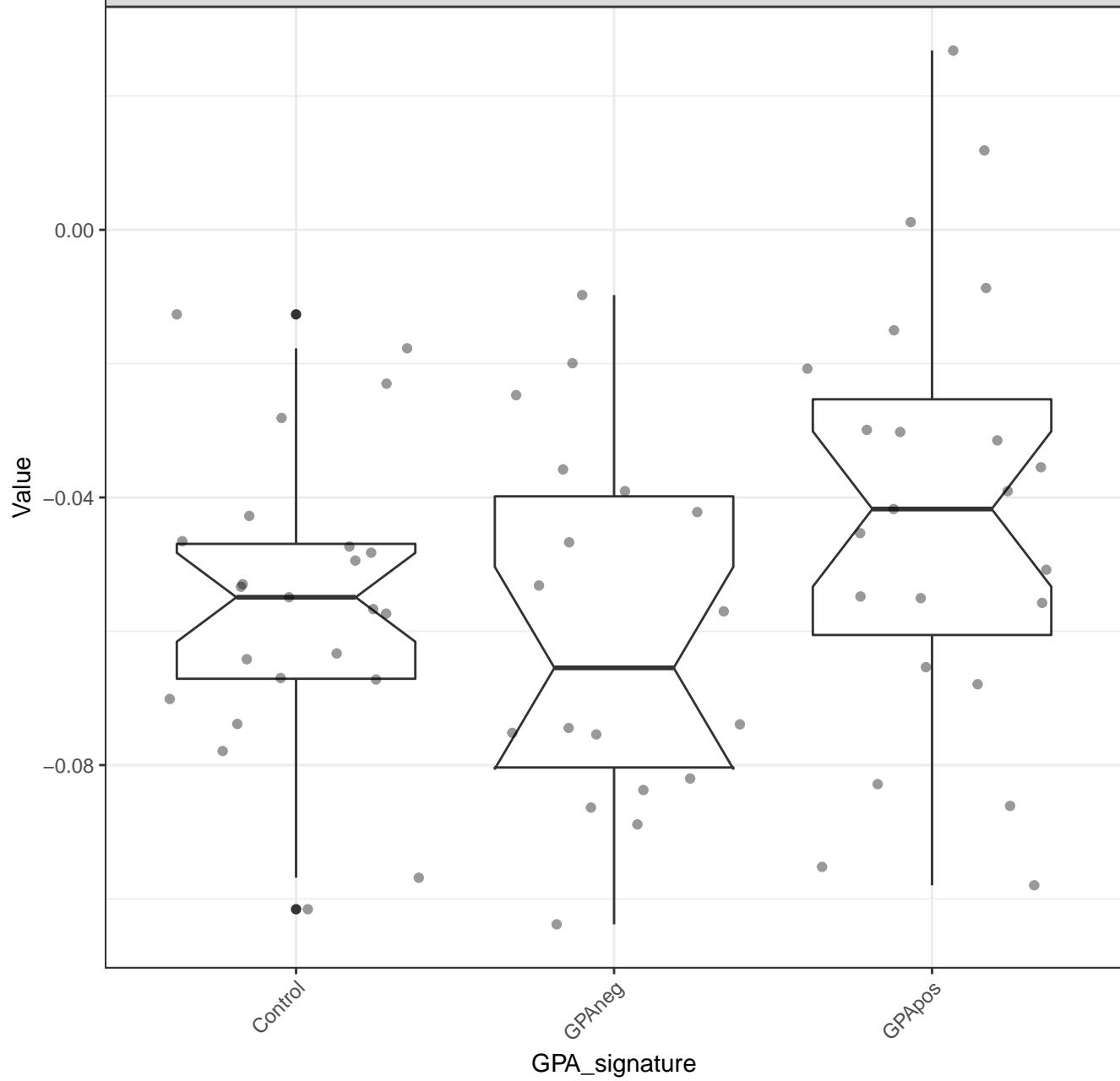
## LV 43



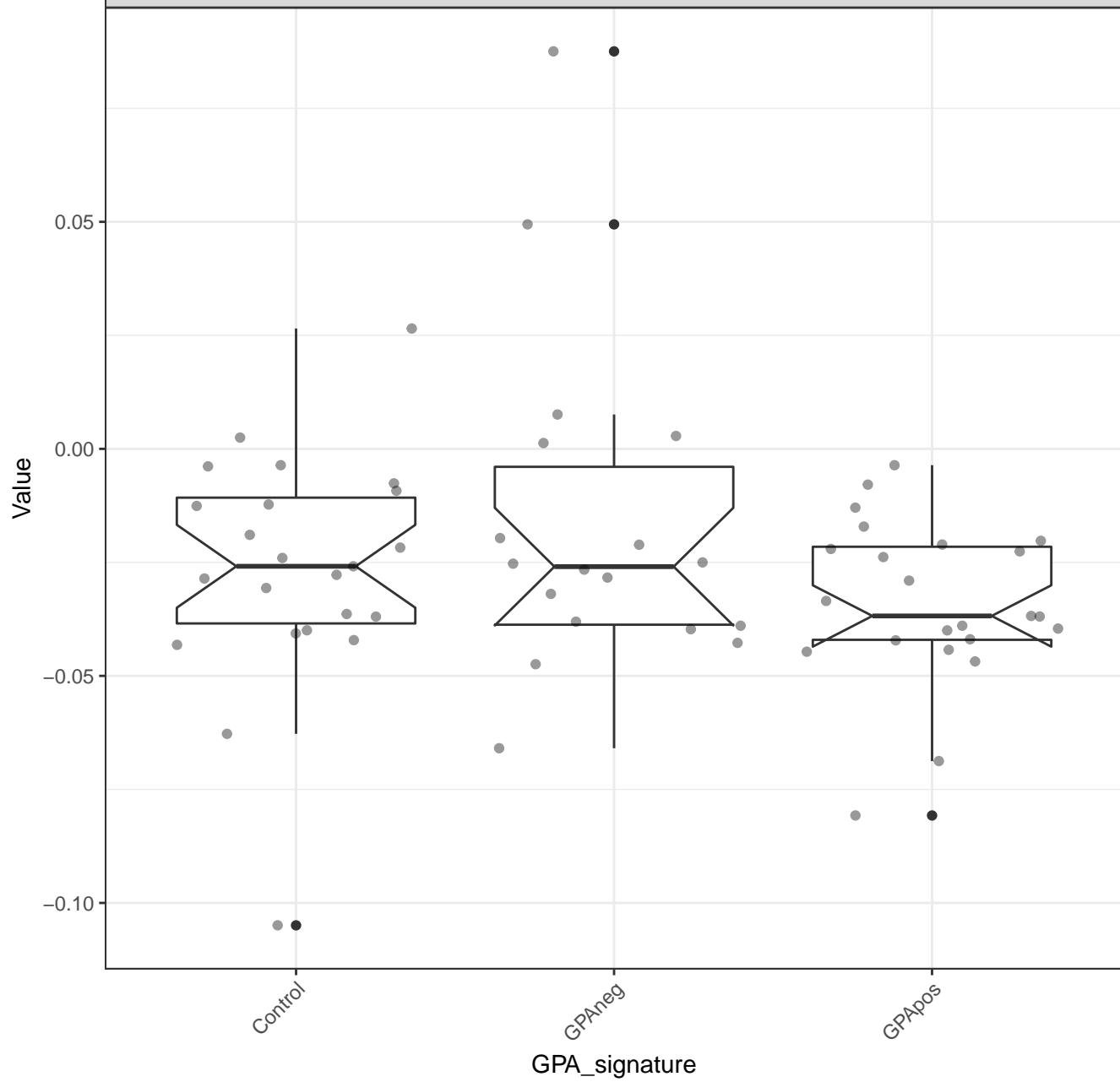
## LV 44

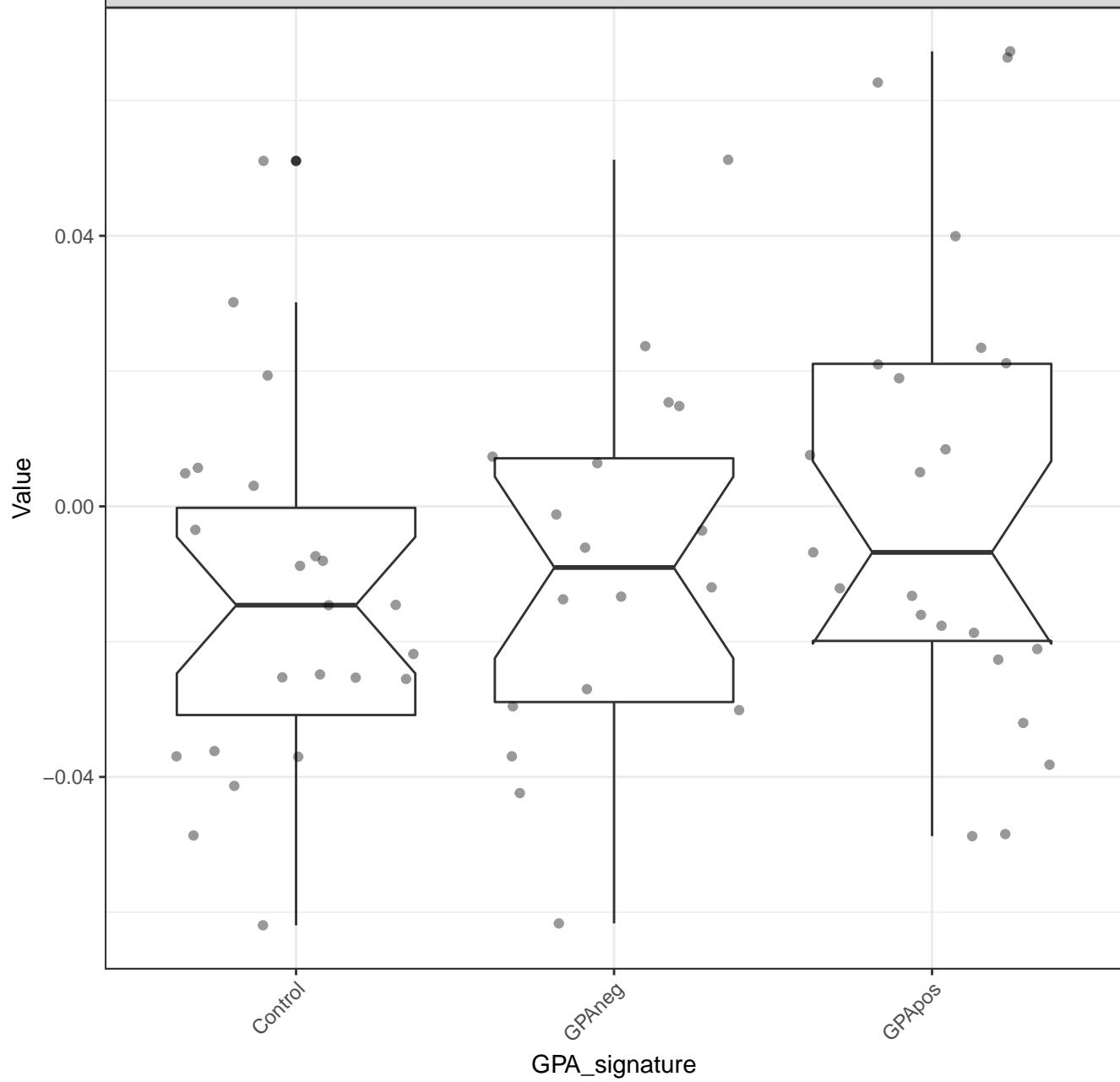


## 45,REACTOME\_RNA\_POL\_I\_PROMOTER\_OPENING

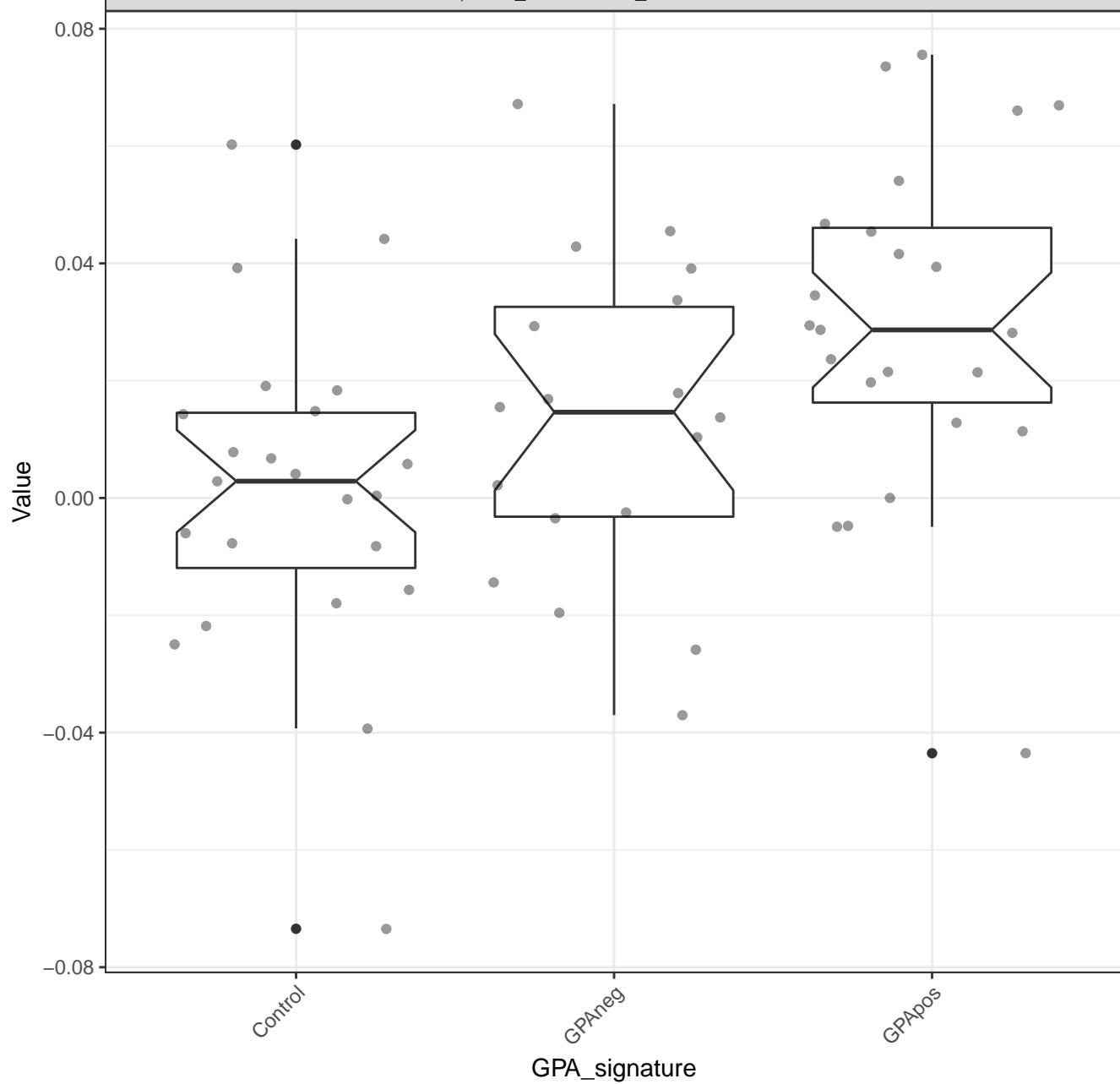


## LV 46

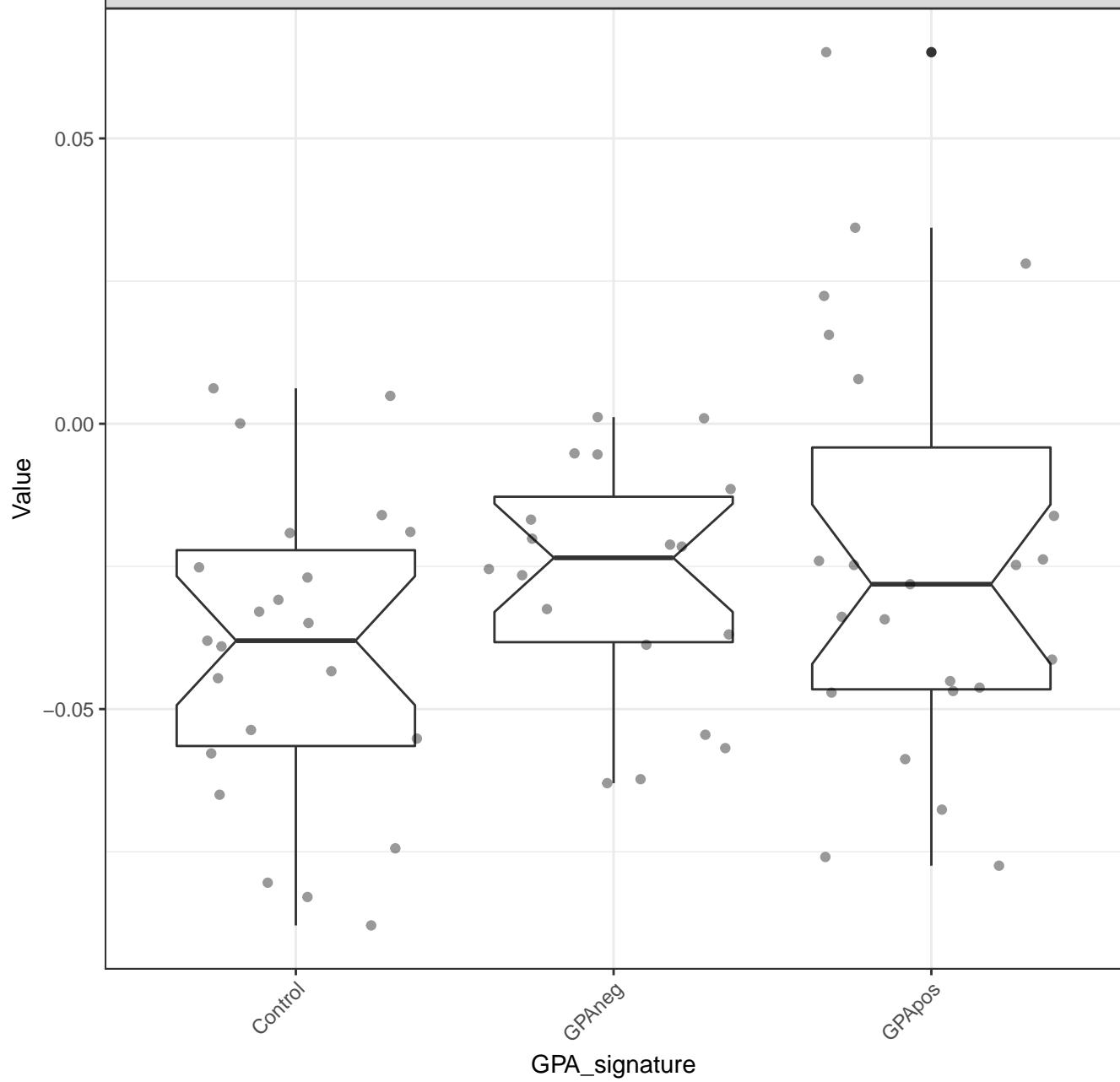




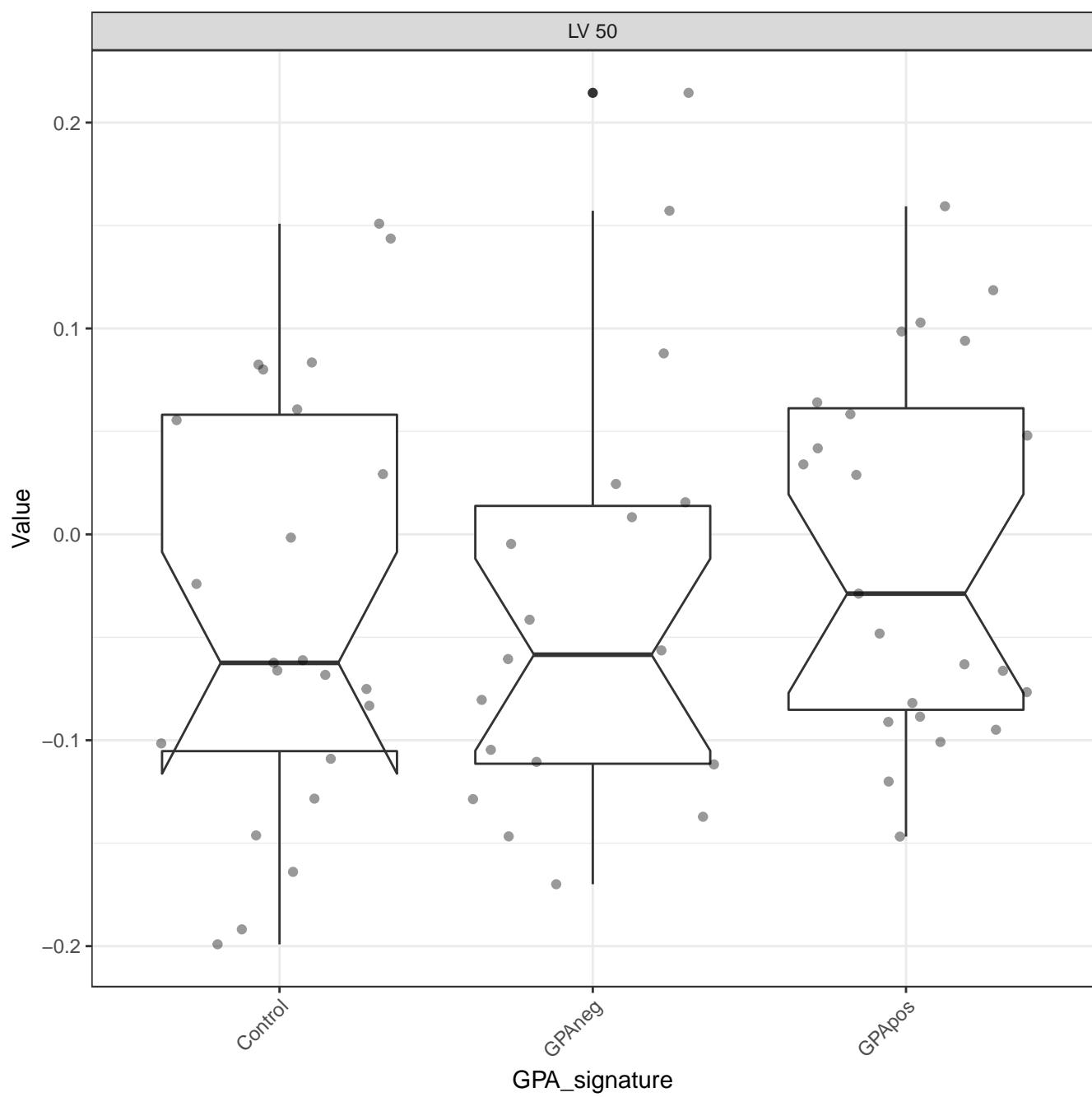
## 48,MIPS\_RIBOSOME\_CYTOPLASMIC



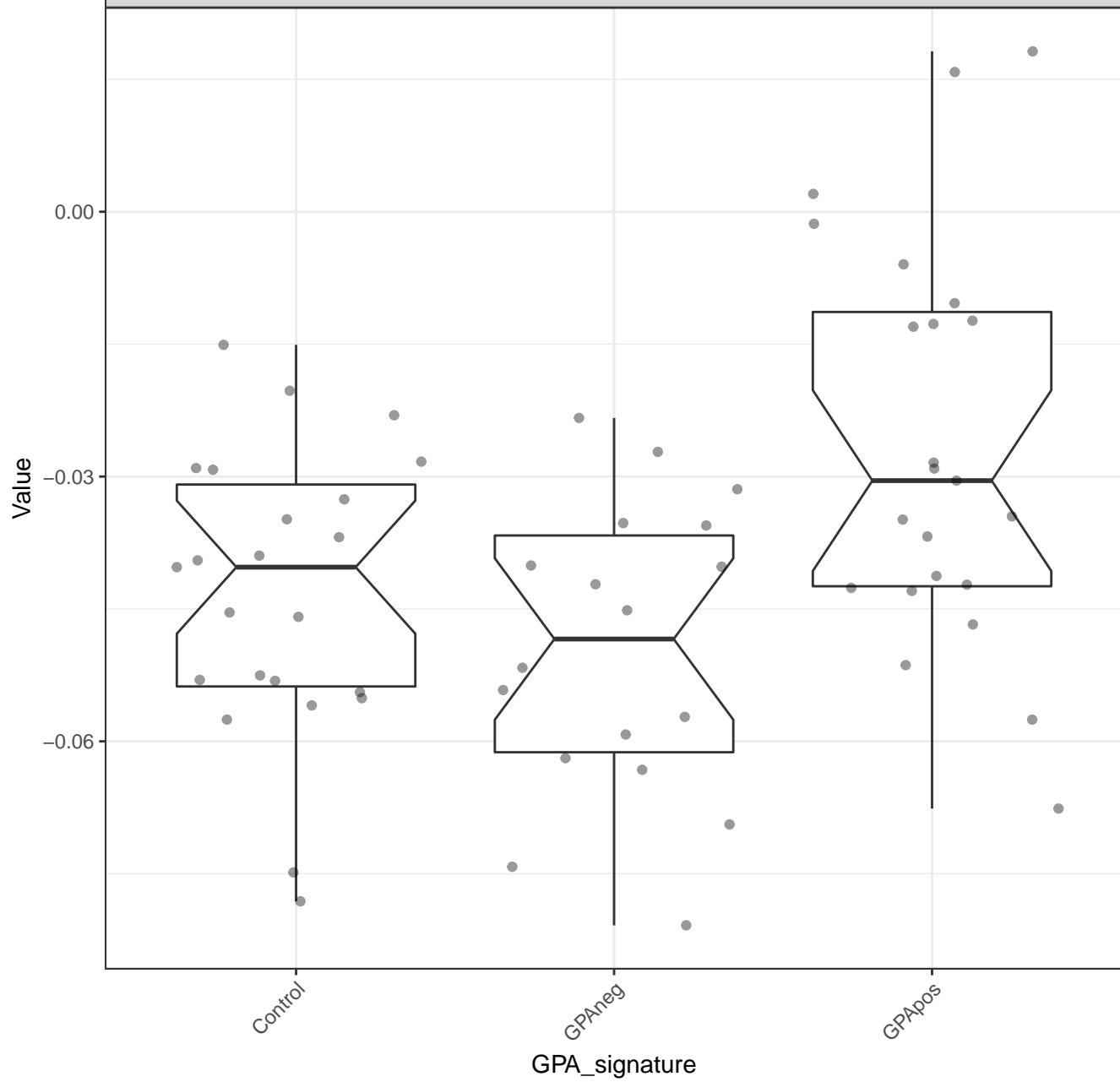
# 49,KEGG\_DILATED\_CARDIOMYOPATHY



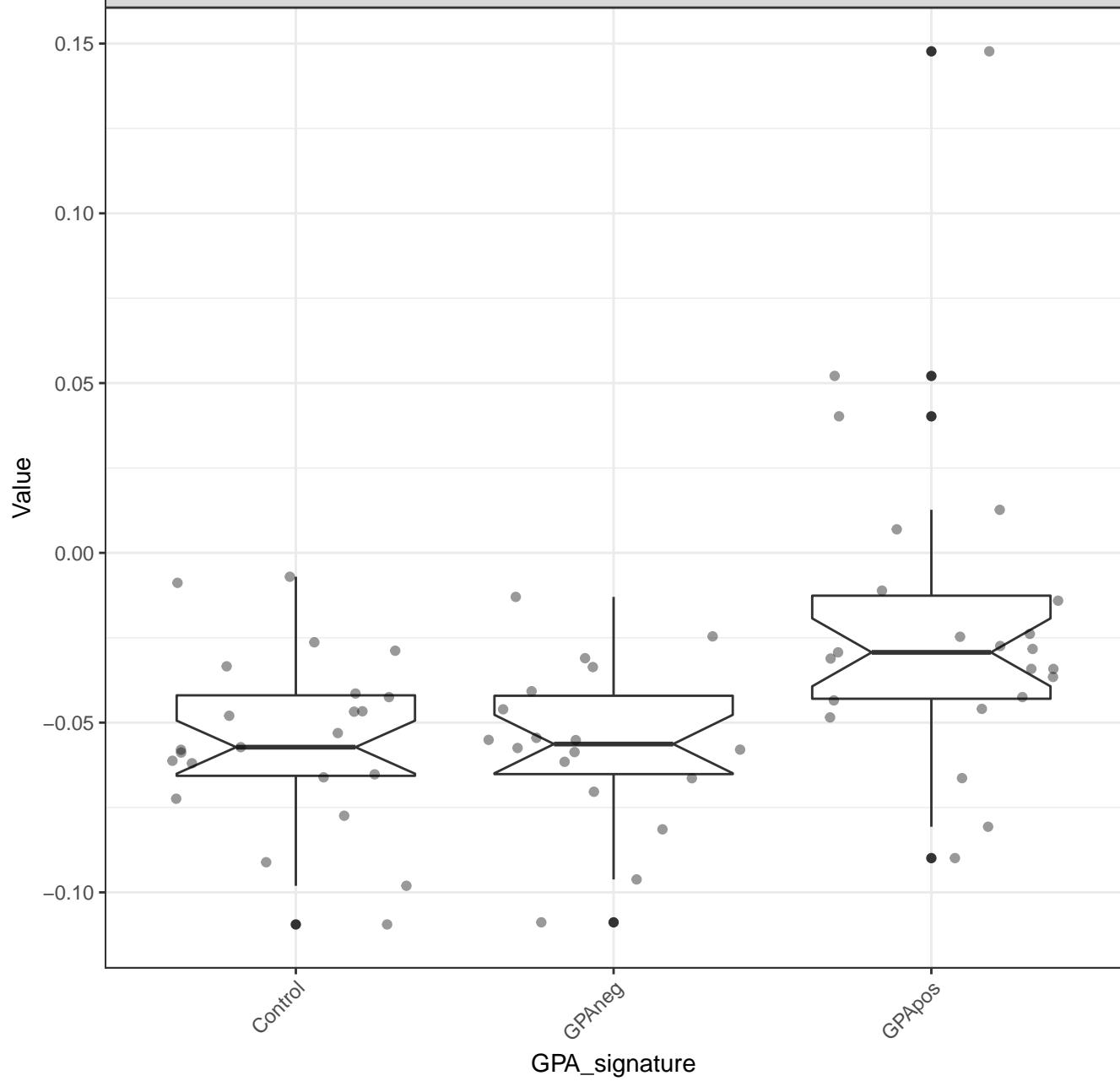
LV 50



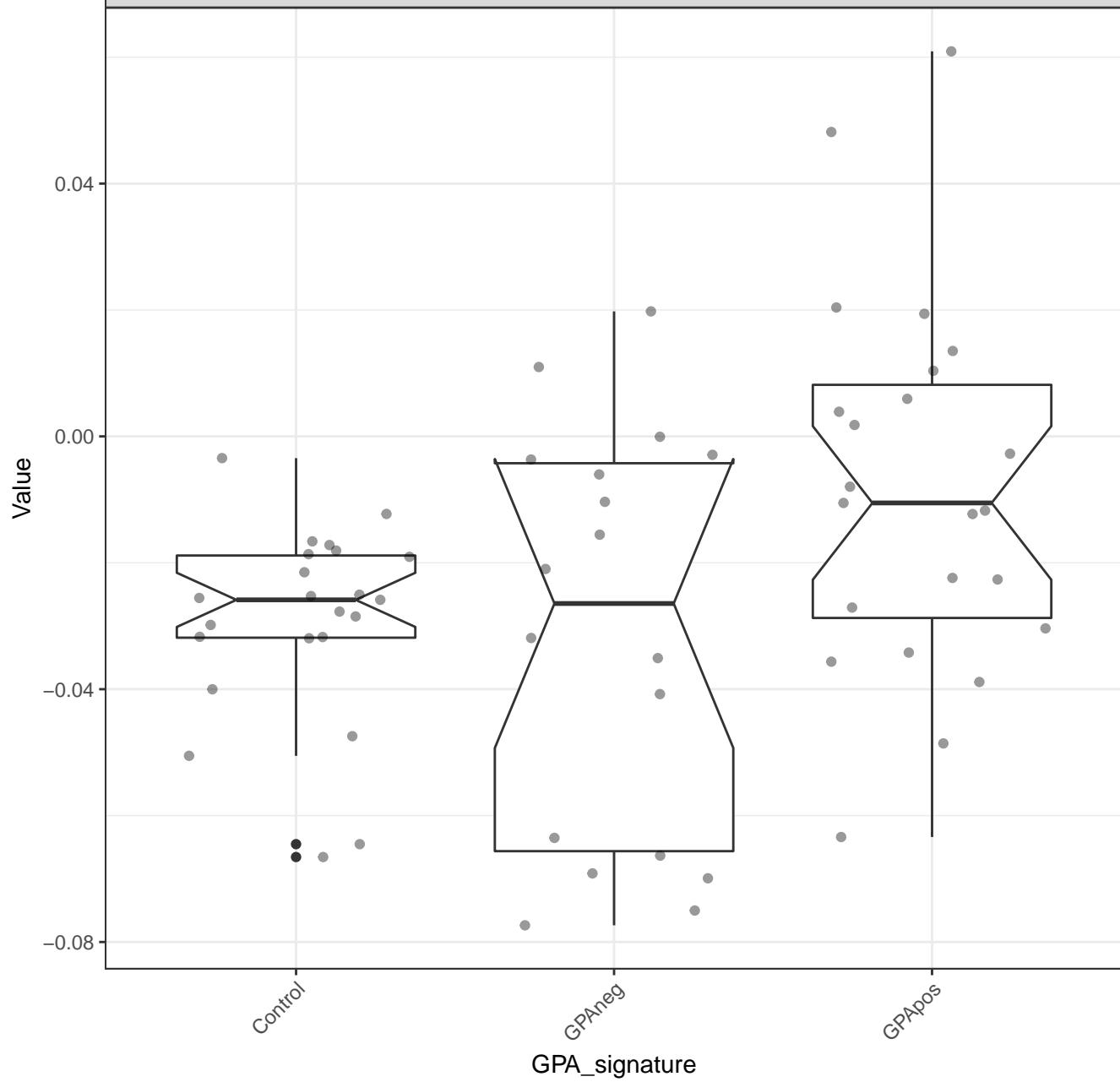
LV 51



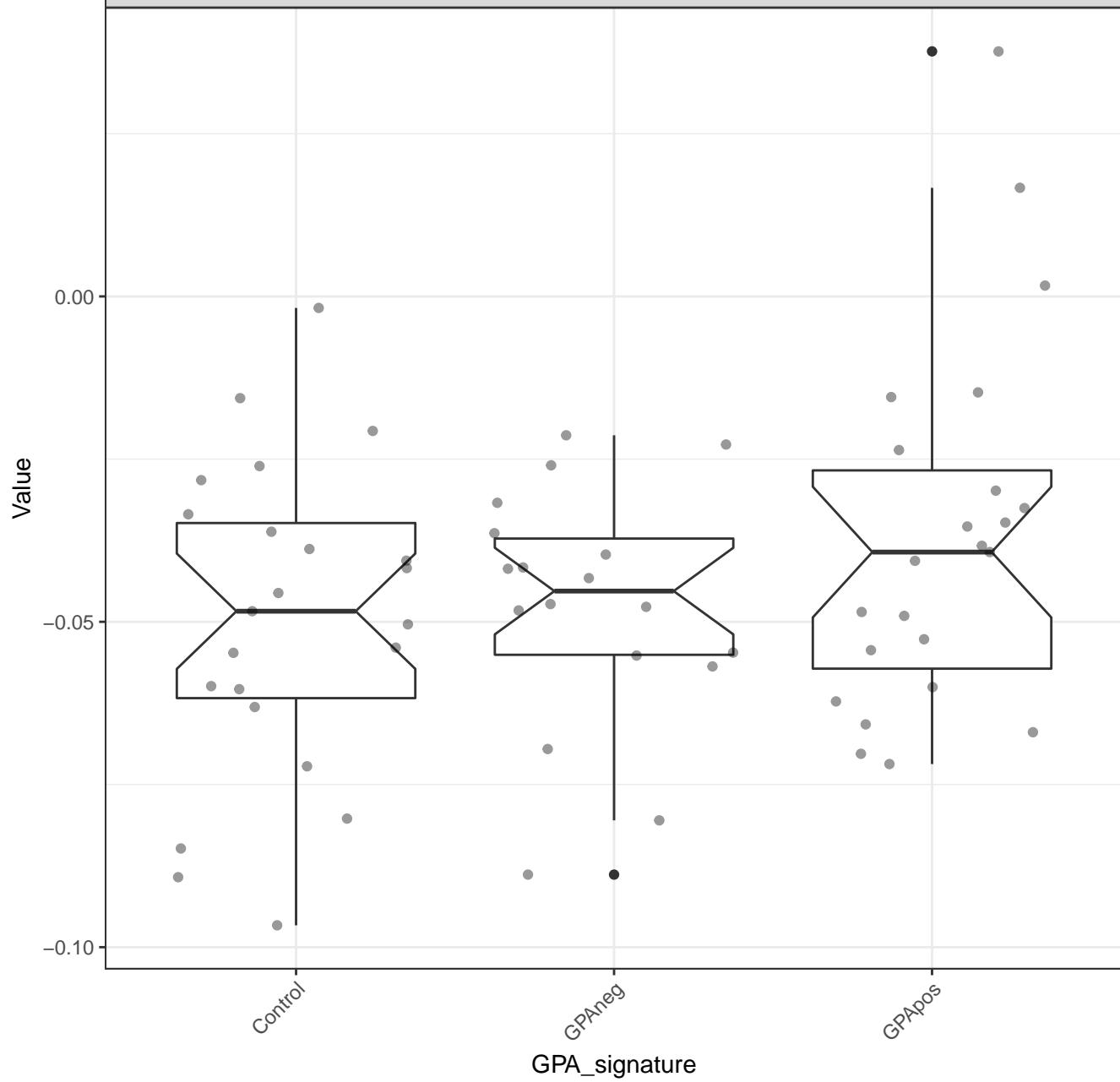
LV 52



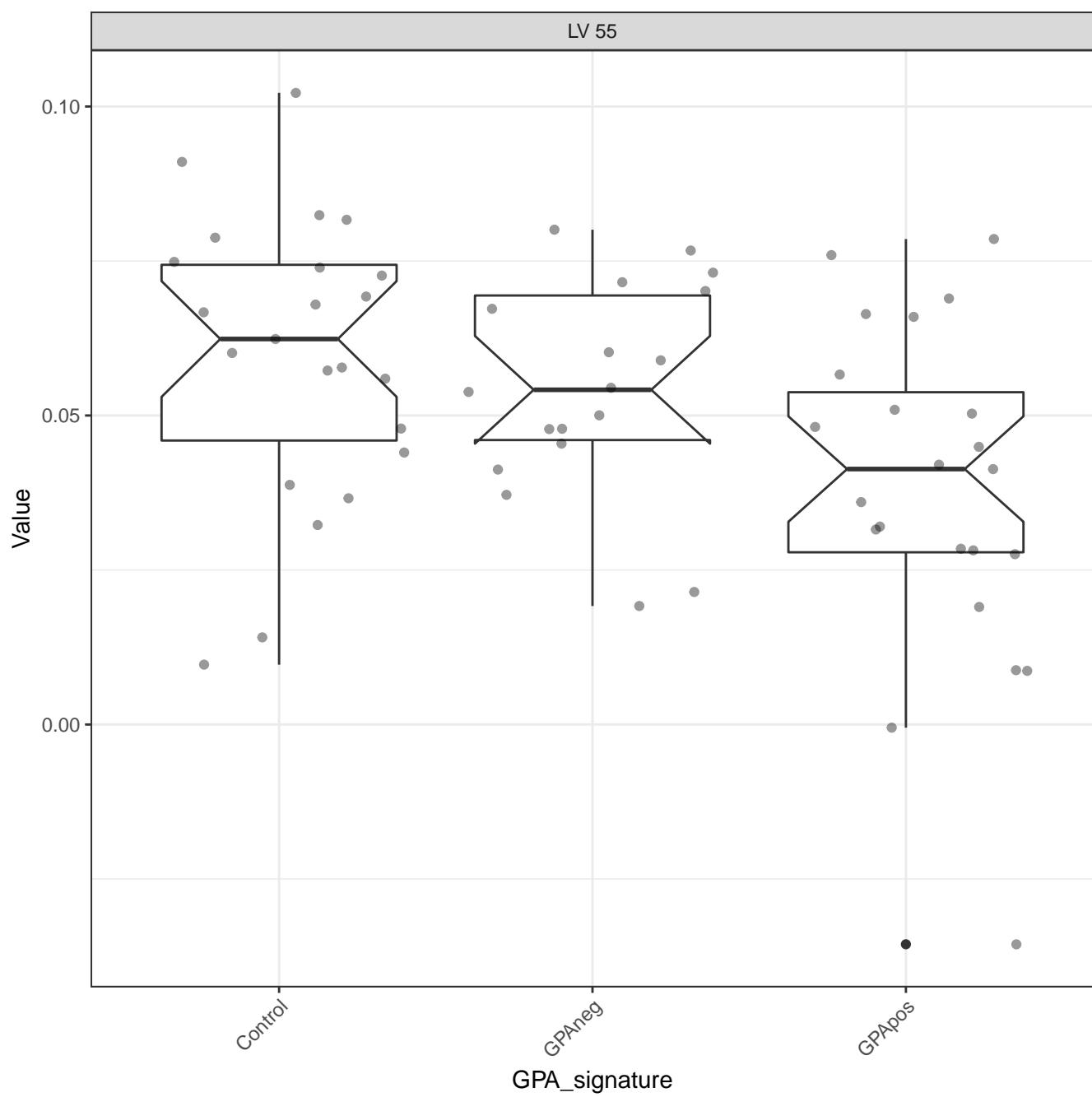
LV 53



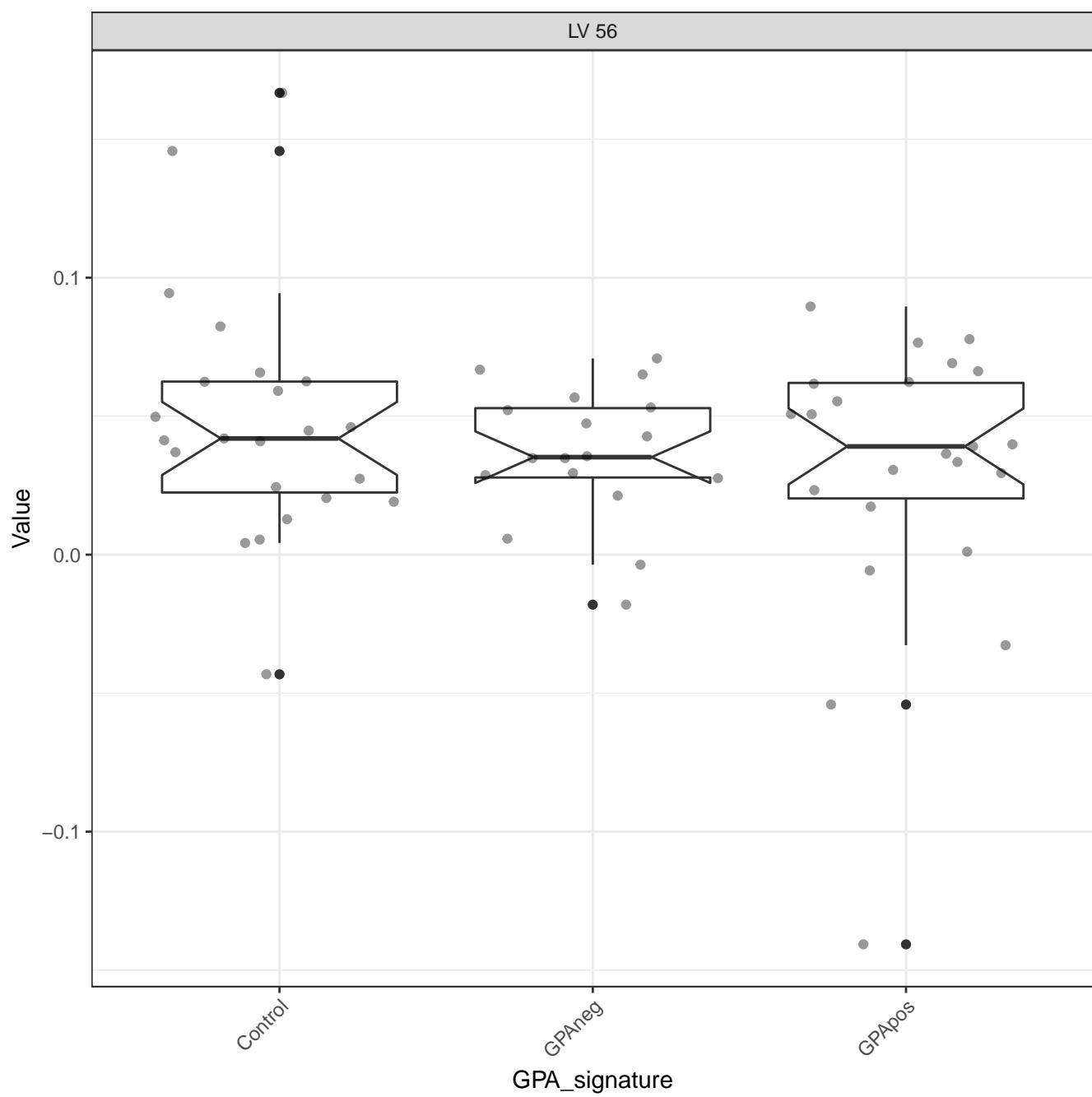
LV 54



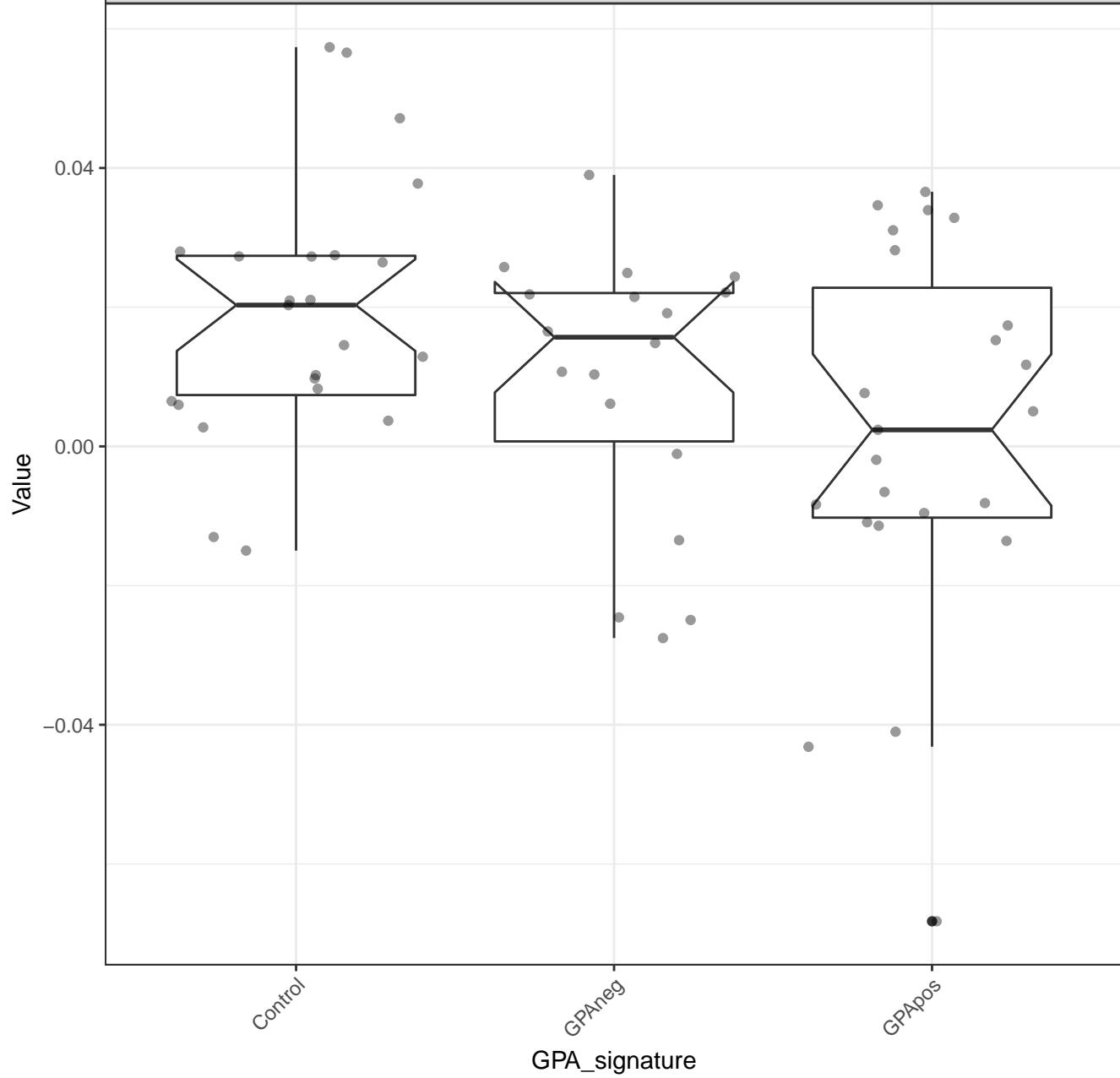
LV 55



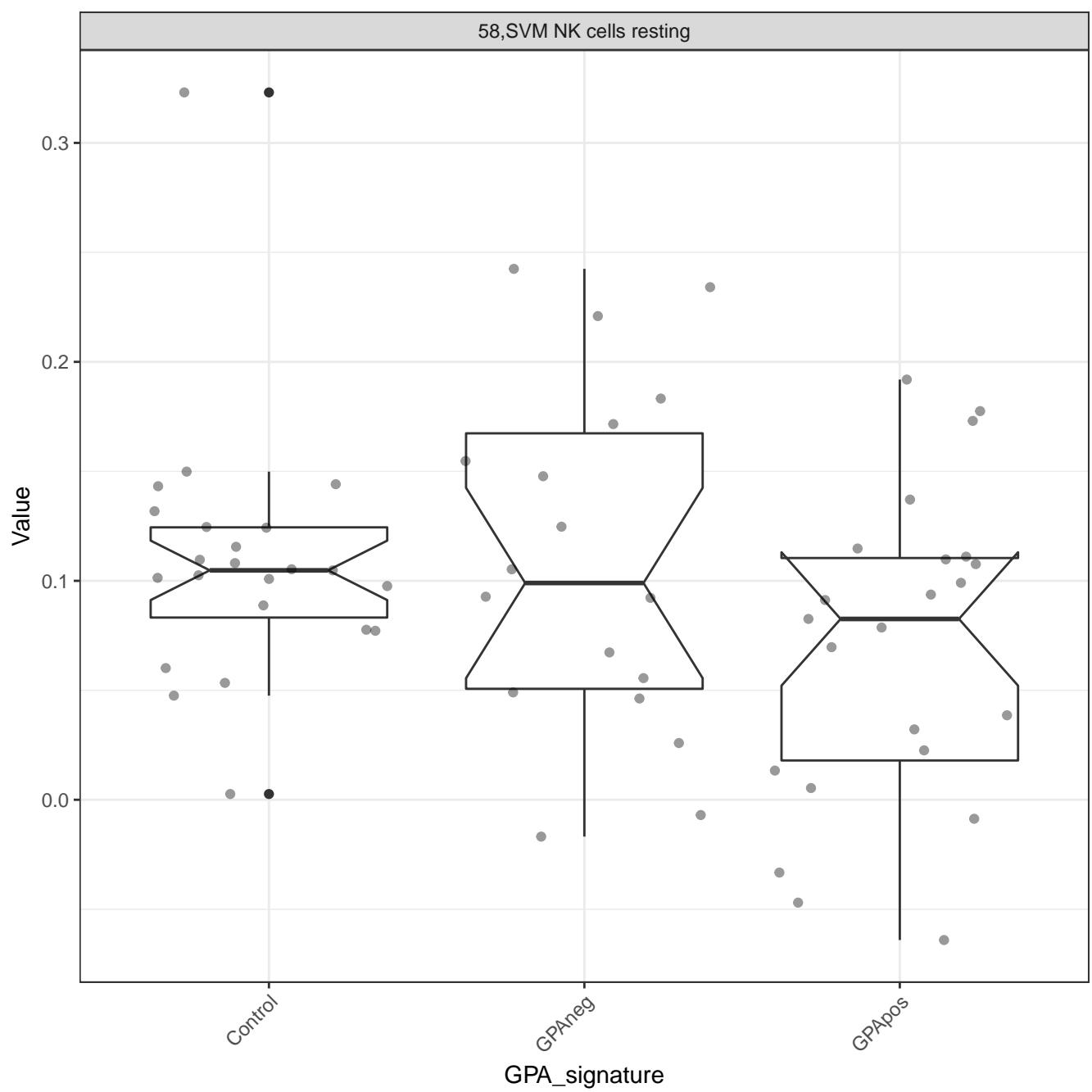
## LV 56



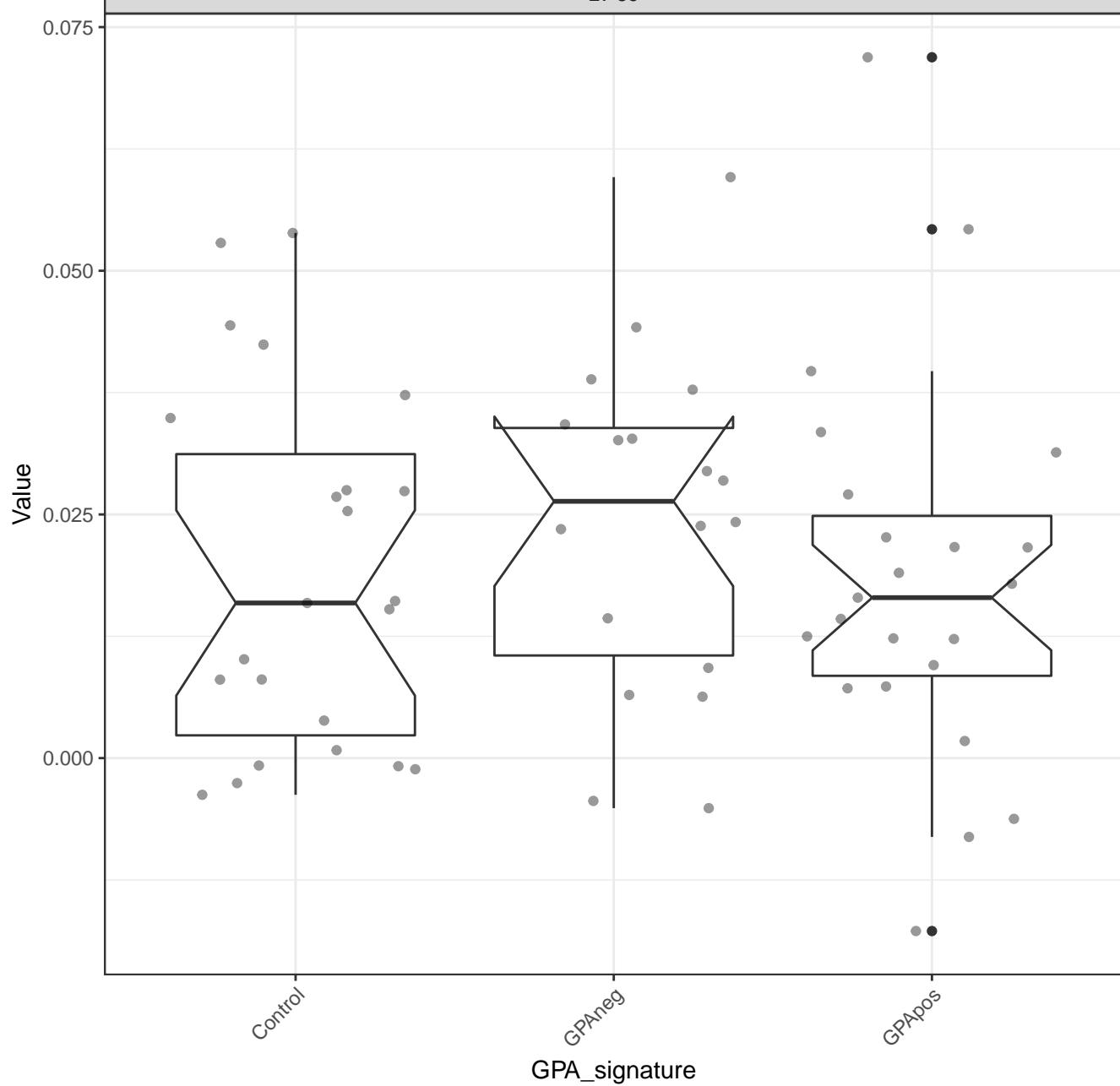
## 57,SVM T cells CD4 memory activated



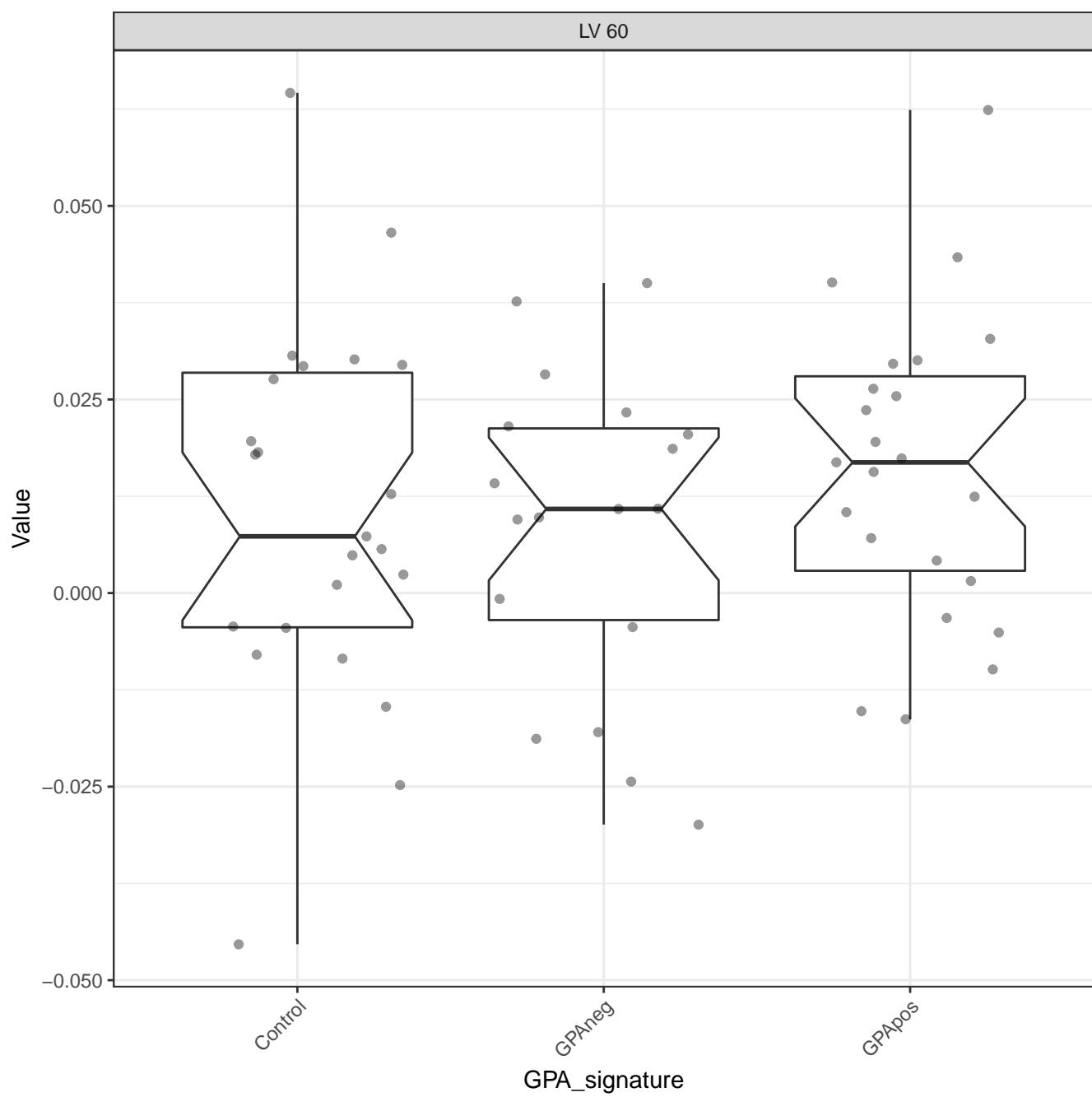
## 58,SVM NK cells resting



LV 59

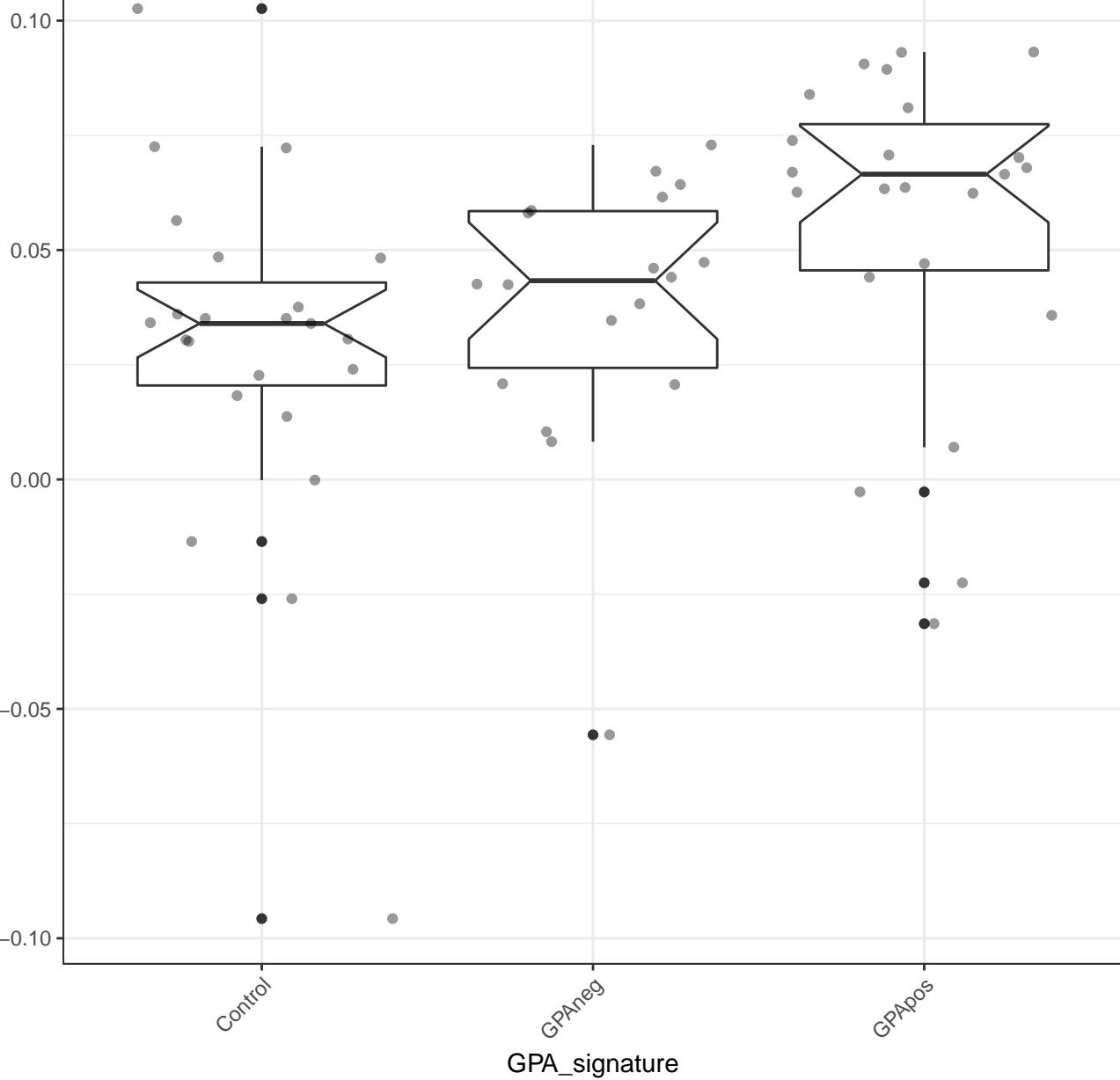


## LV 60

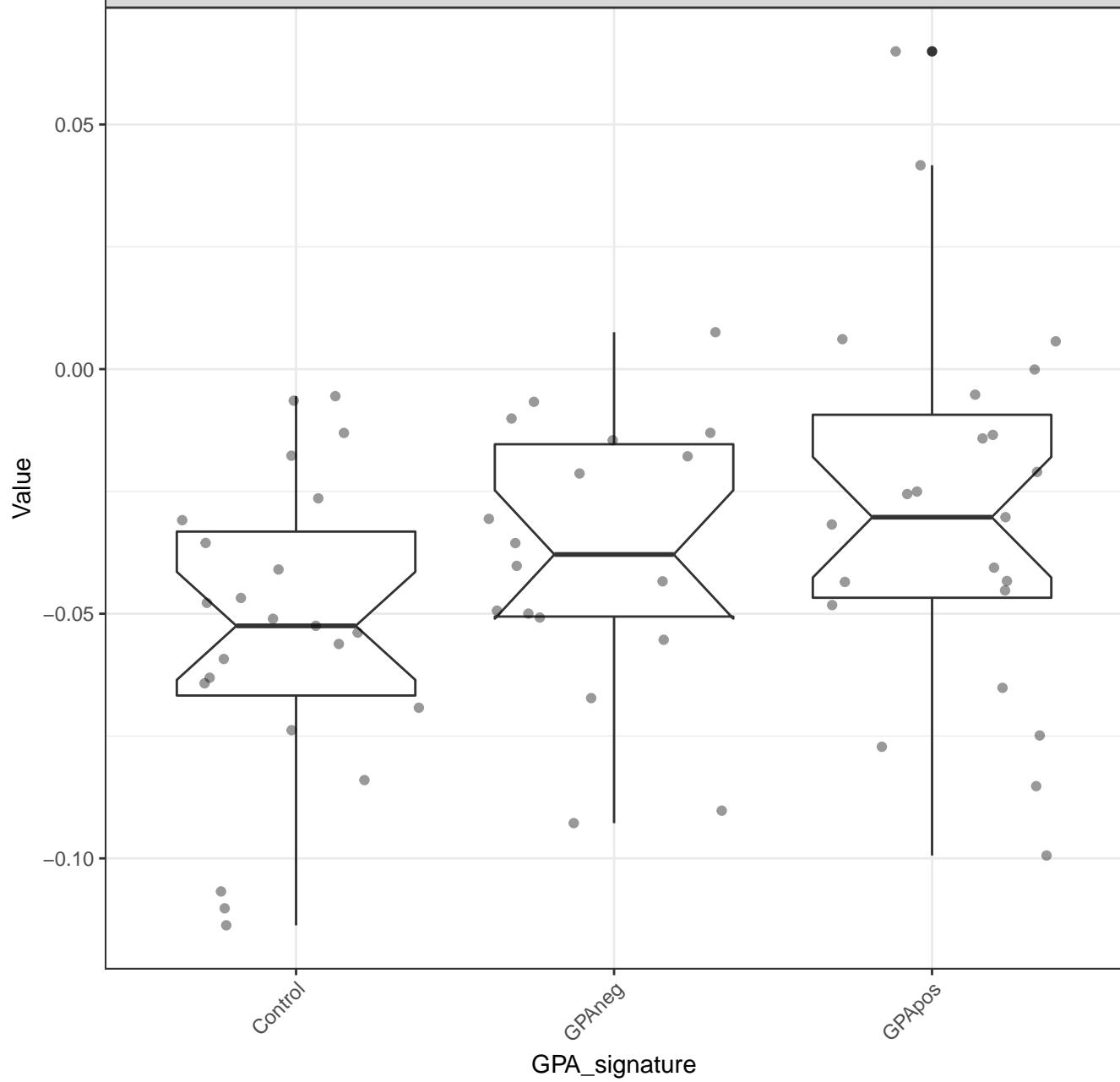


## 61,DMAP\_ERY5

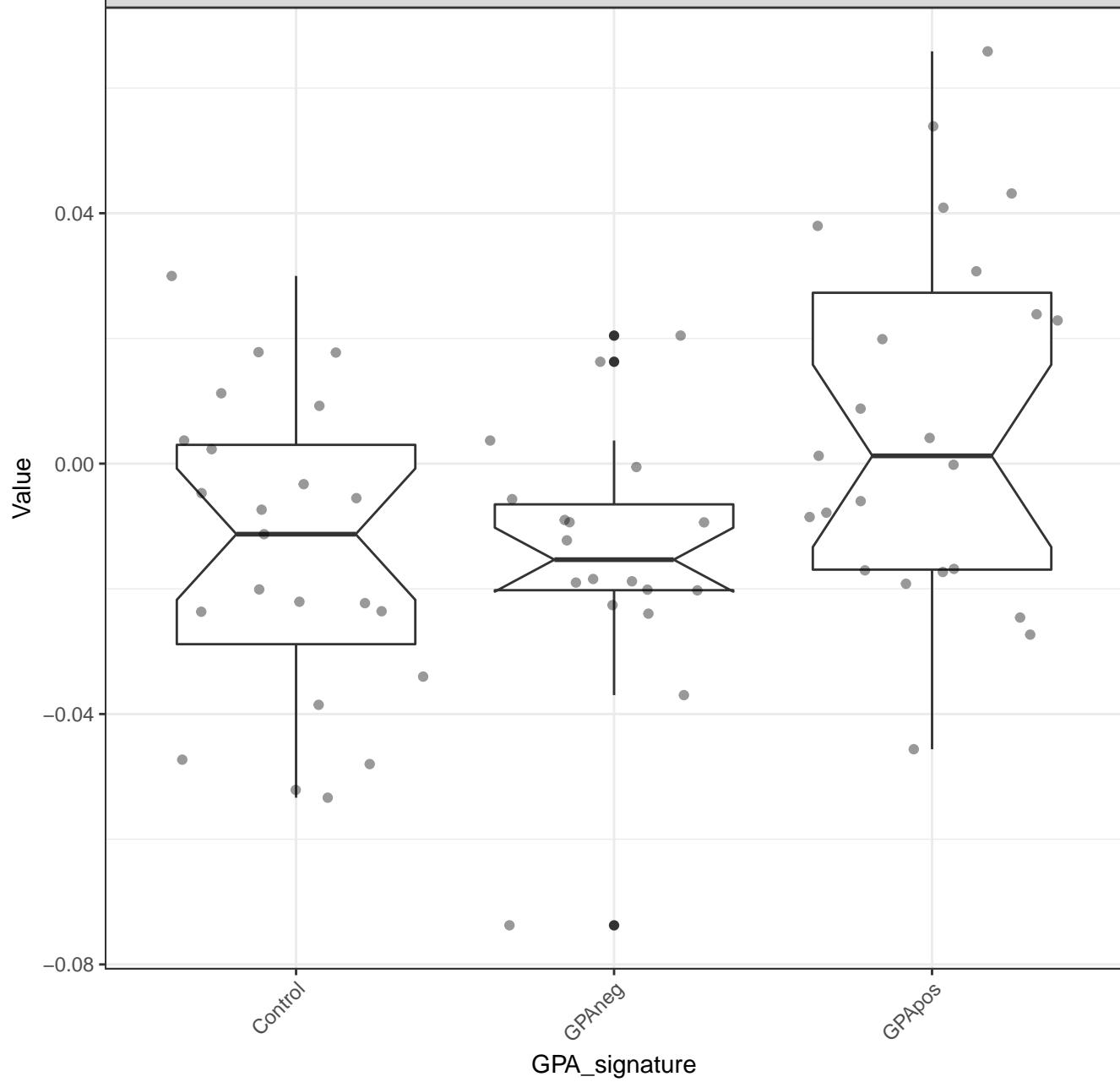
Value



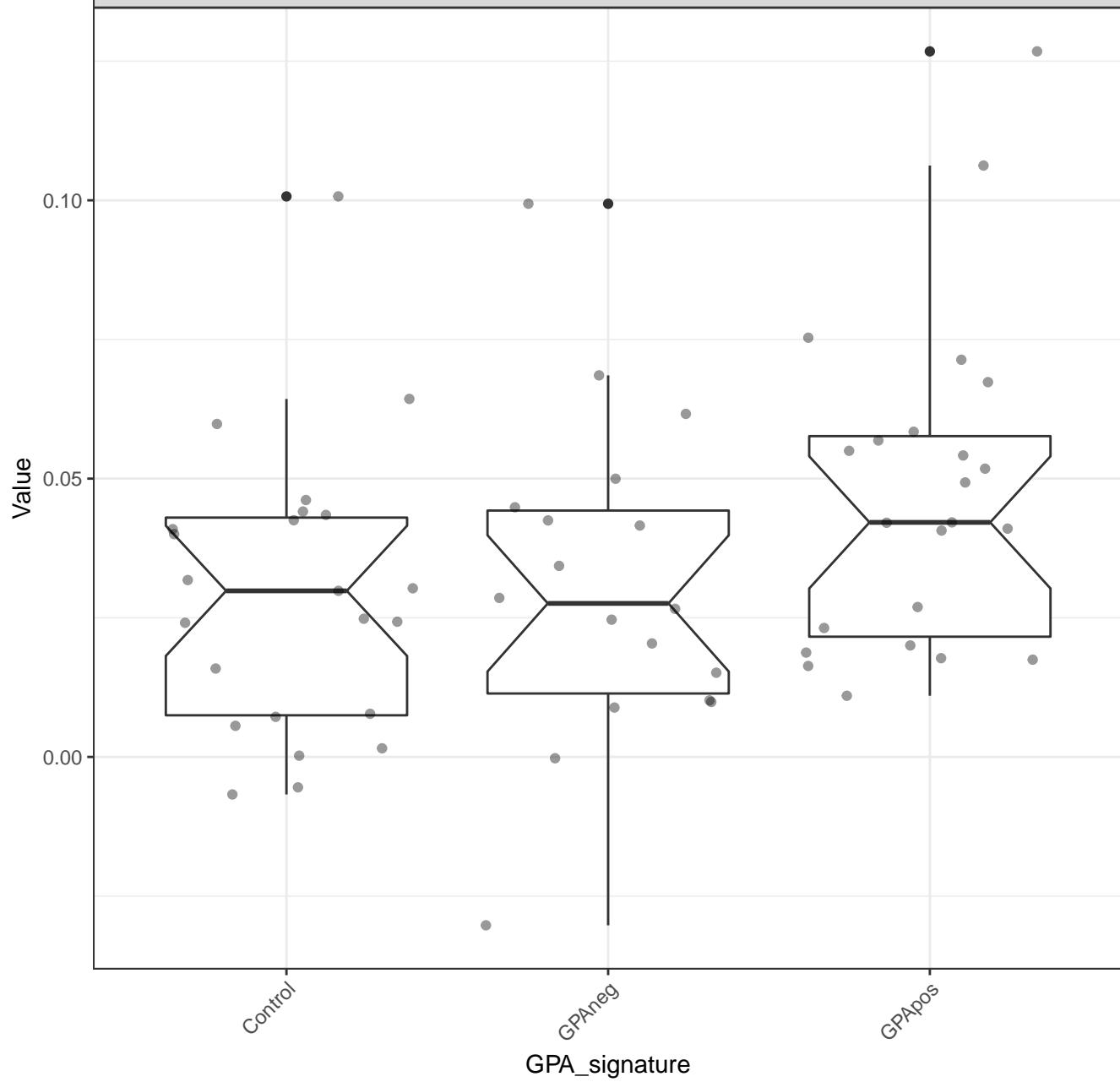
LV 62



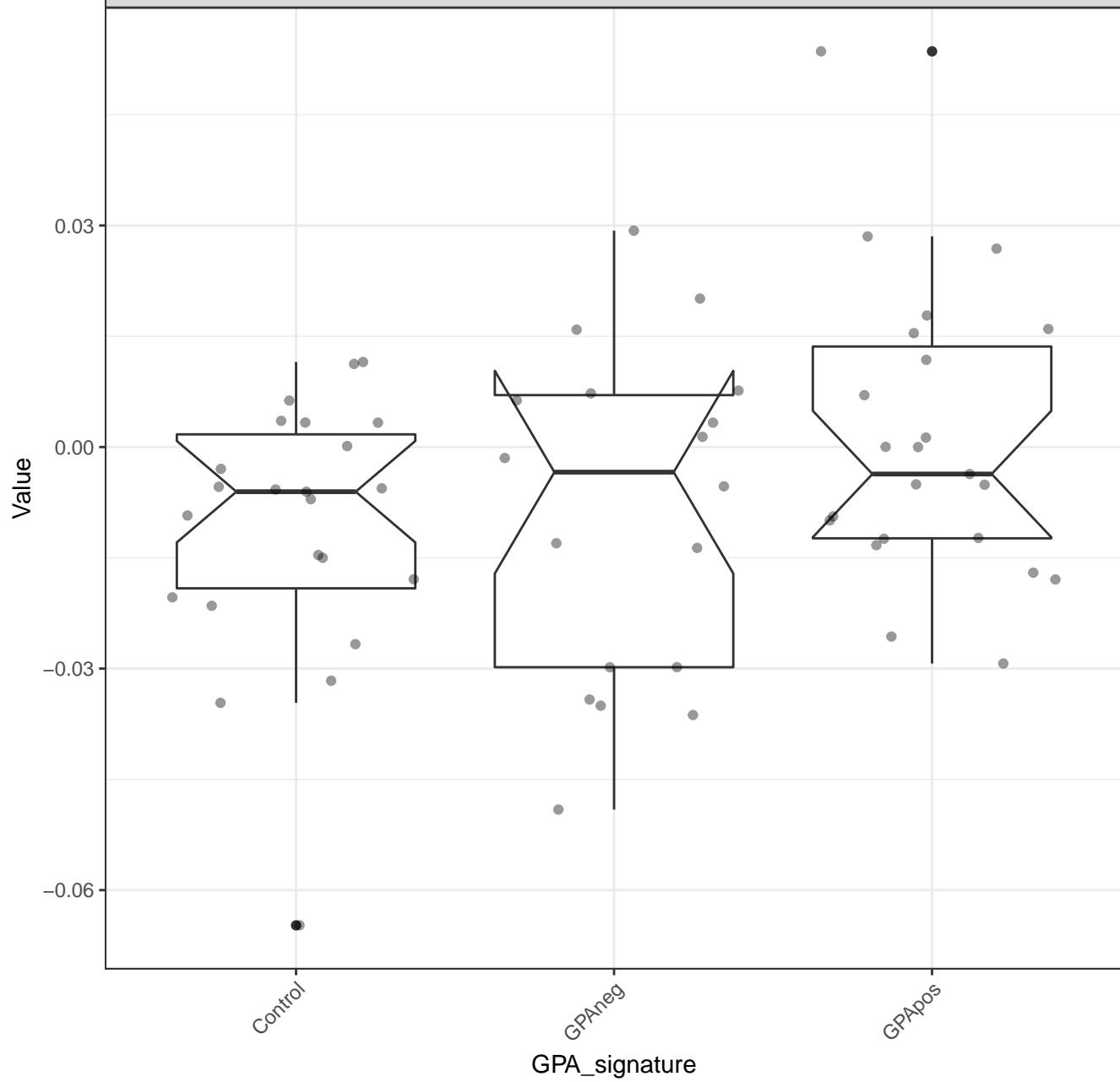
## LV 63



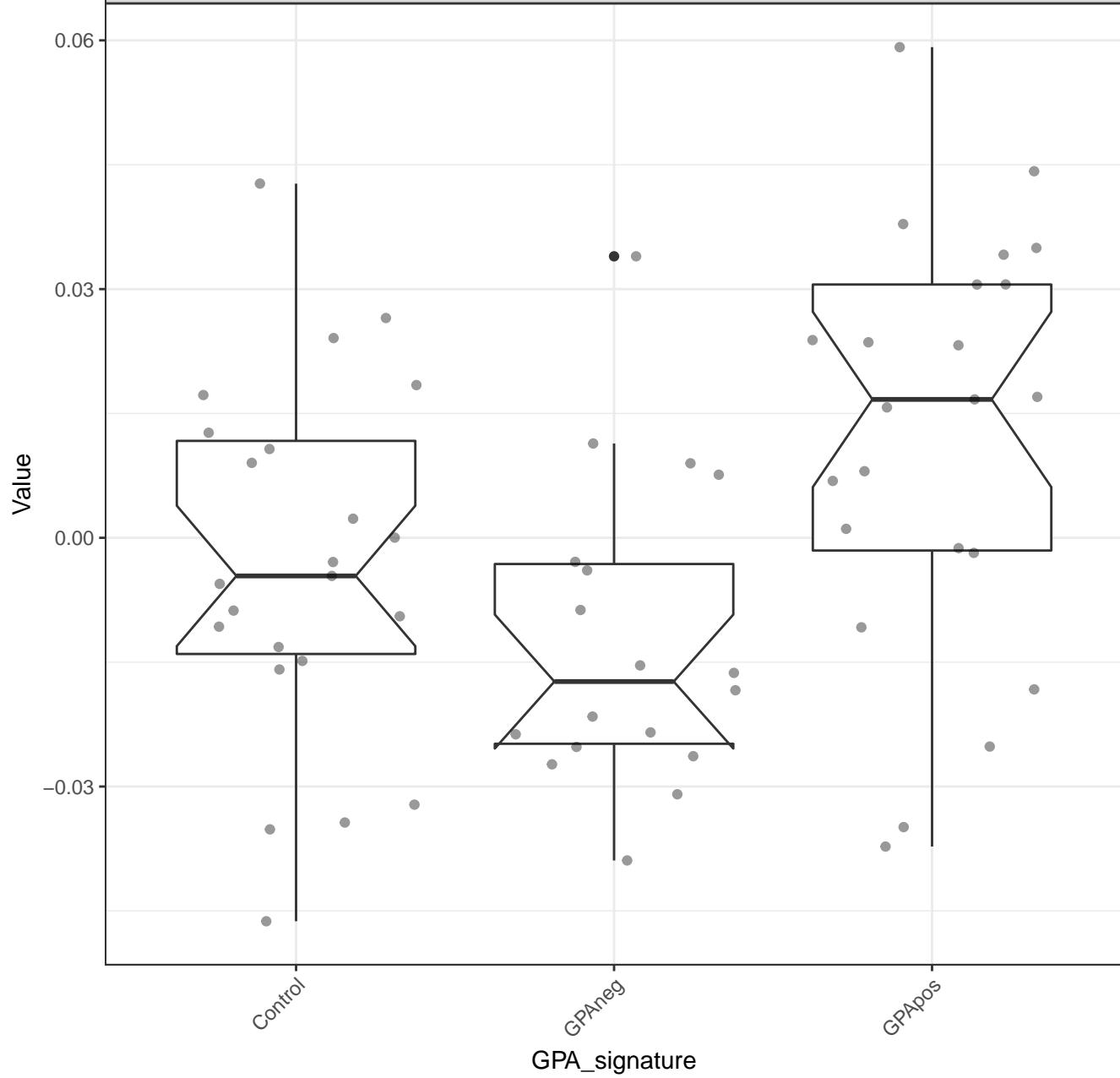
## LV 64



LV 65



## 66,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



Value

0.04

0.02

0.00

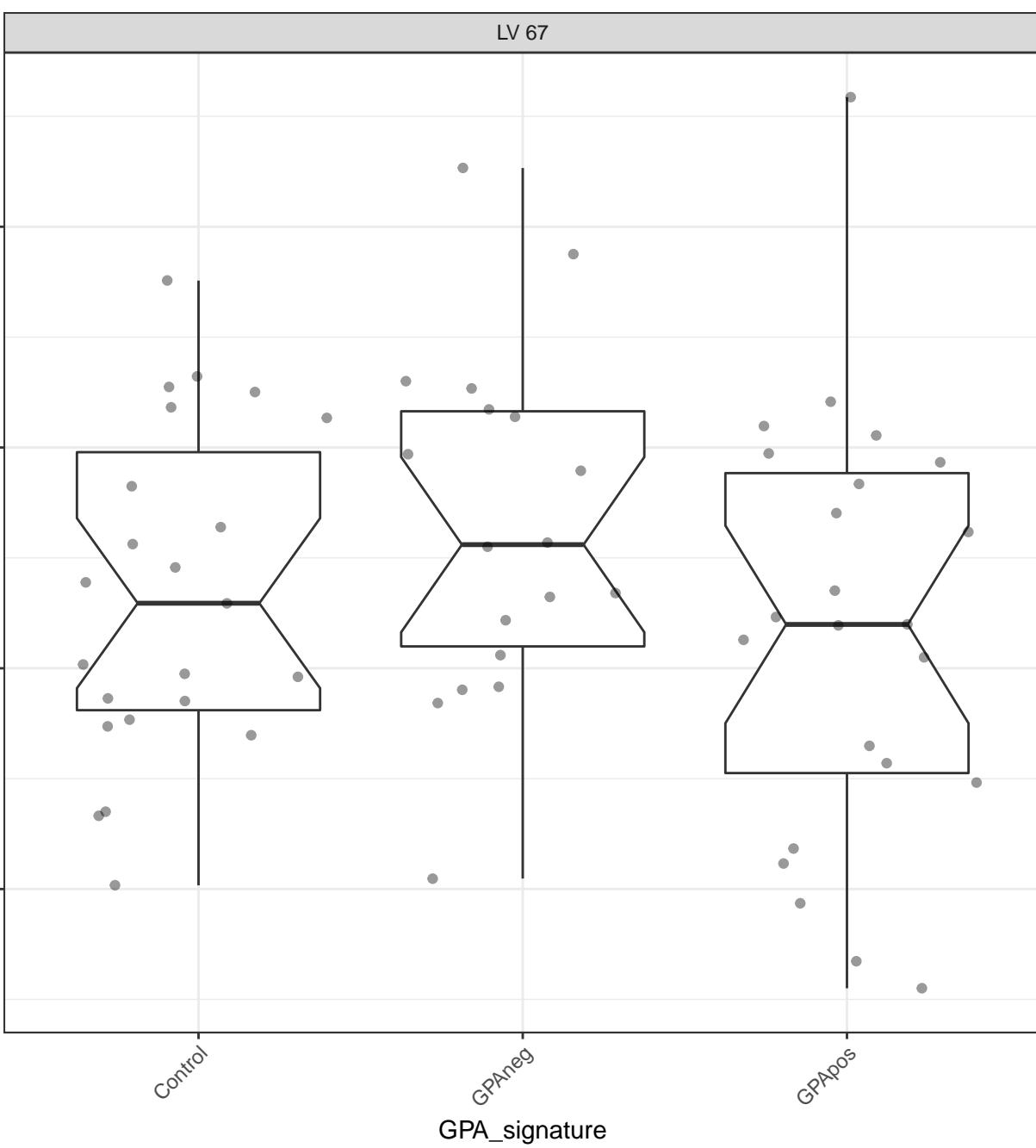
-0.02

Control

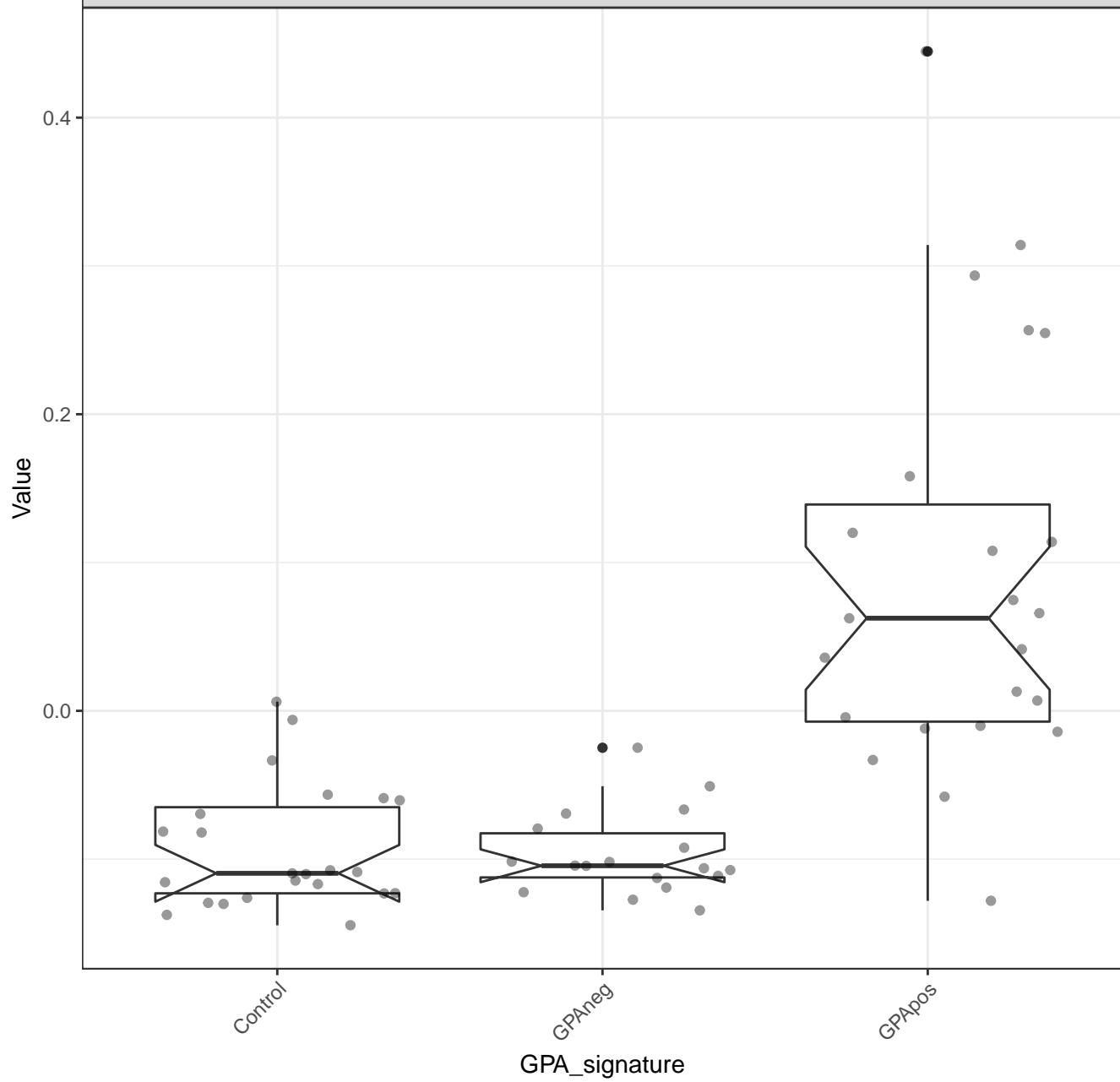
GPAneg

GPAPos

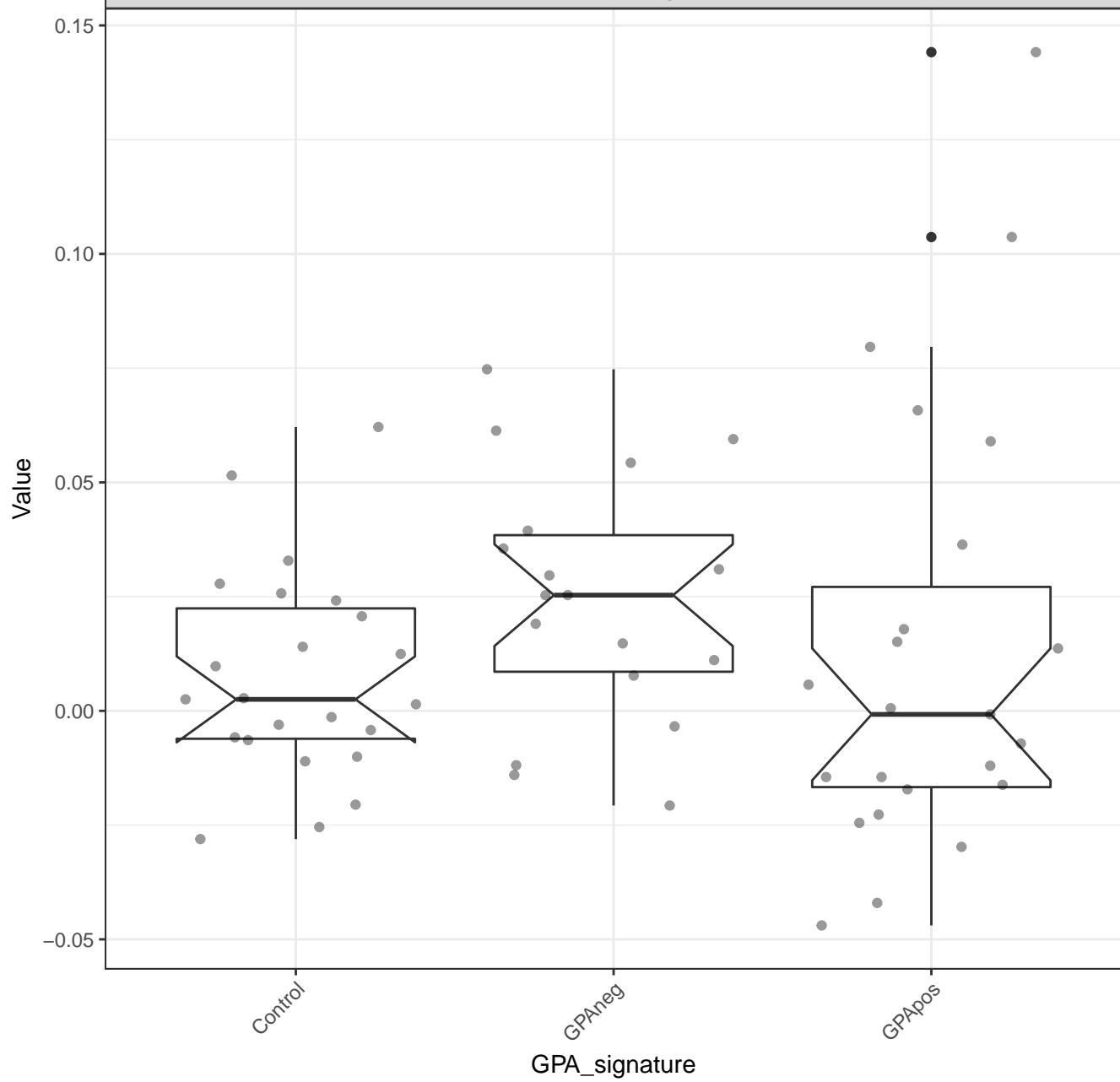
GPA\_signature



## 68,DMAP\_ERY2



## 69,SVM Macrophages M1



## 70,MIPS\_PA700\_20S\_PA28\_COMPLEX

Value

0.1

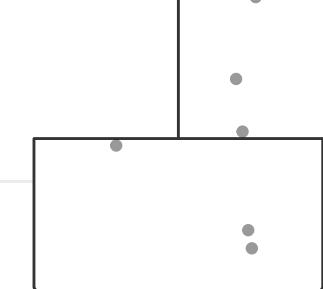
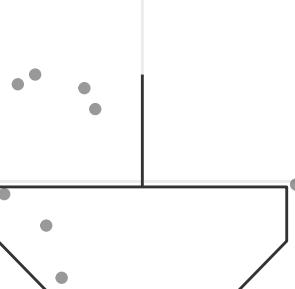
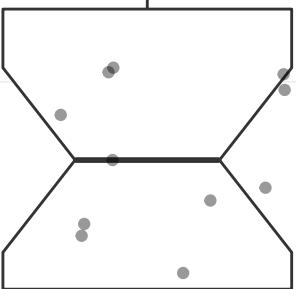
0.0

Control

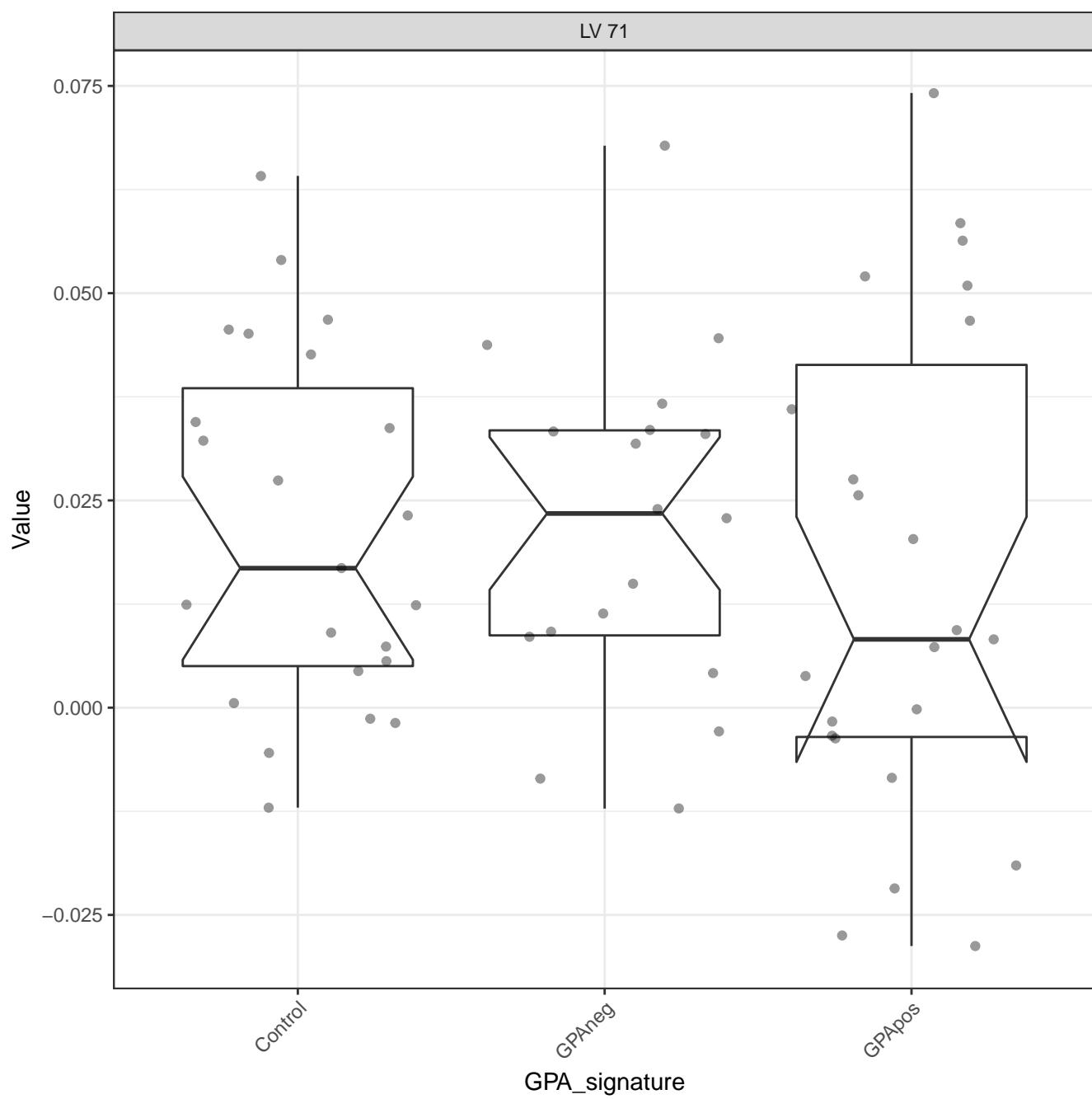
GPAneg

GPAPos

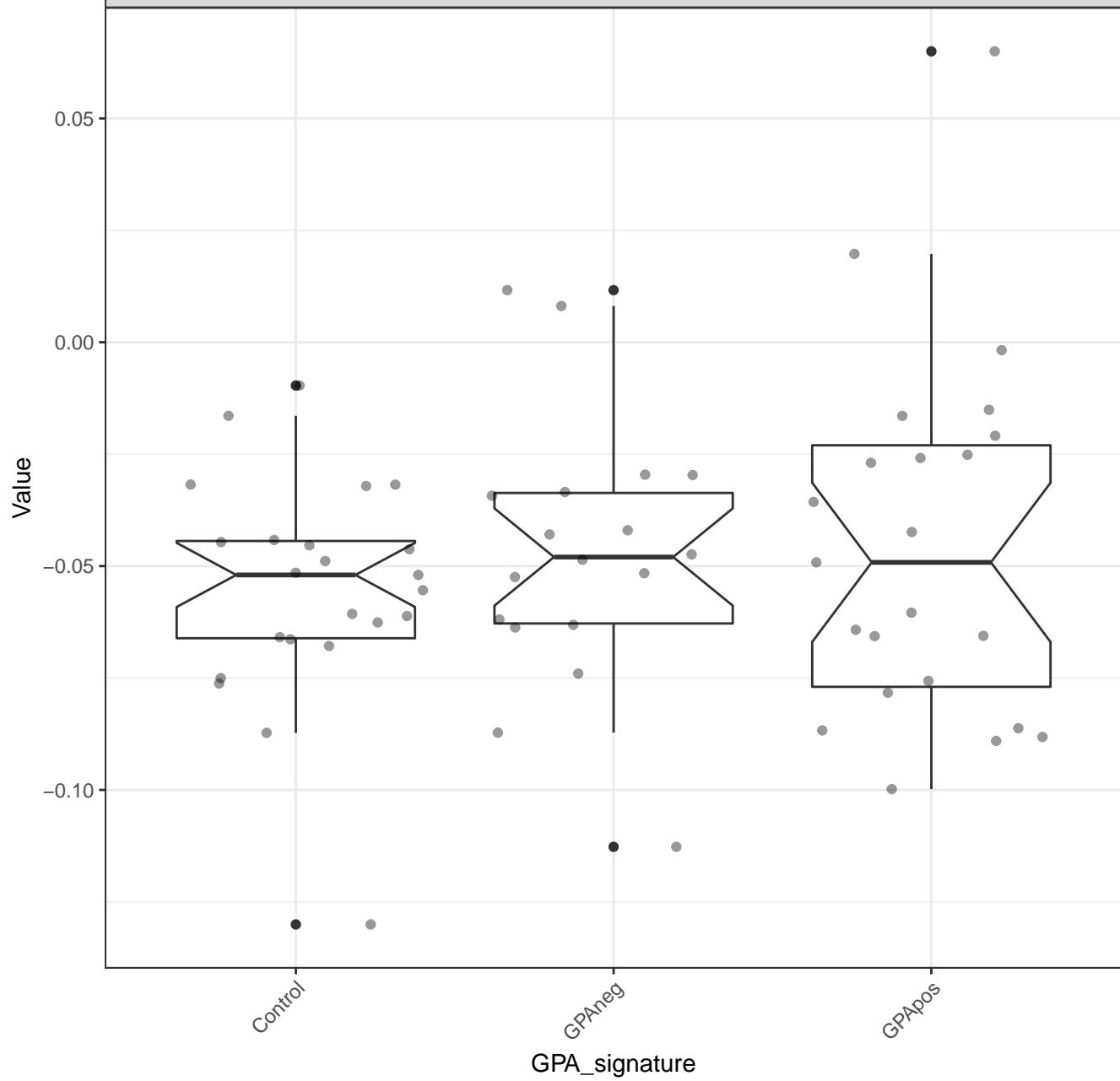
GPA\_signature



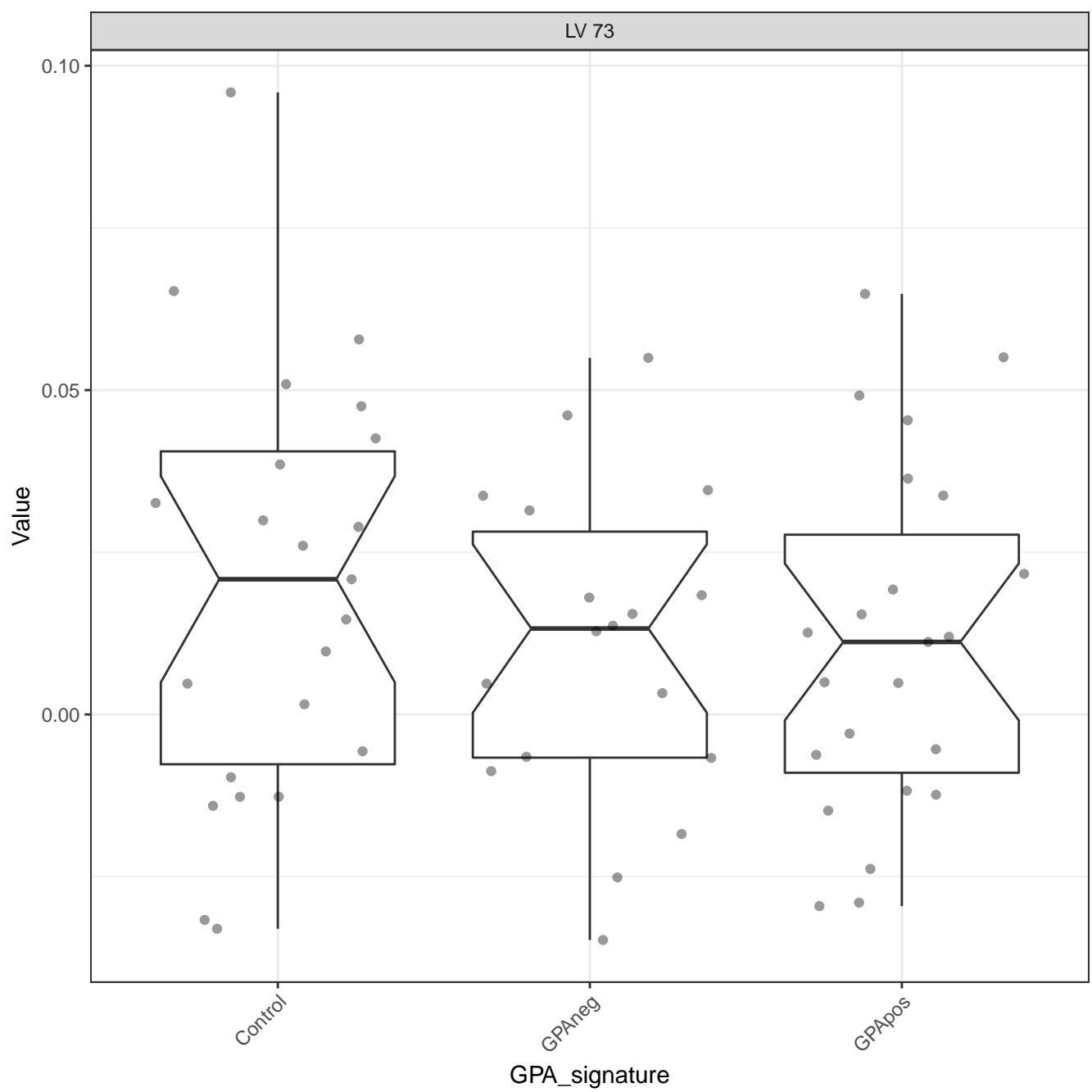
## LV 71



## LV 72

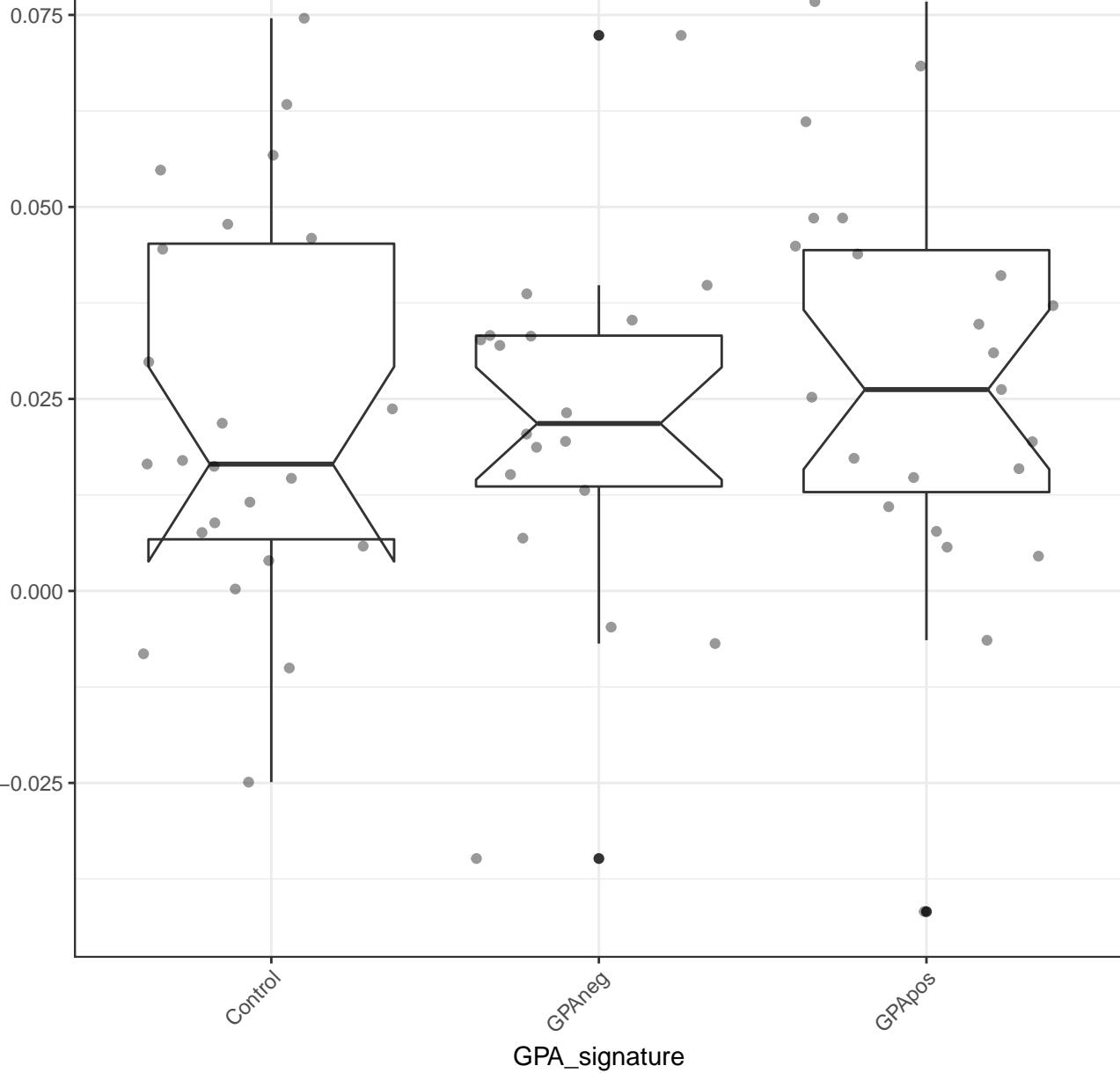


LV 73



## 74,REACTOME\_UNFOLDED\_PROTEIN\_RESPONSE

Value



LV 75

Value

0.05

0.00

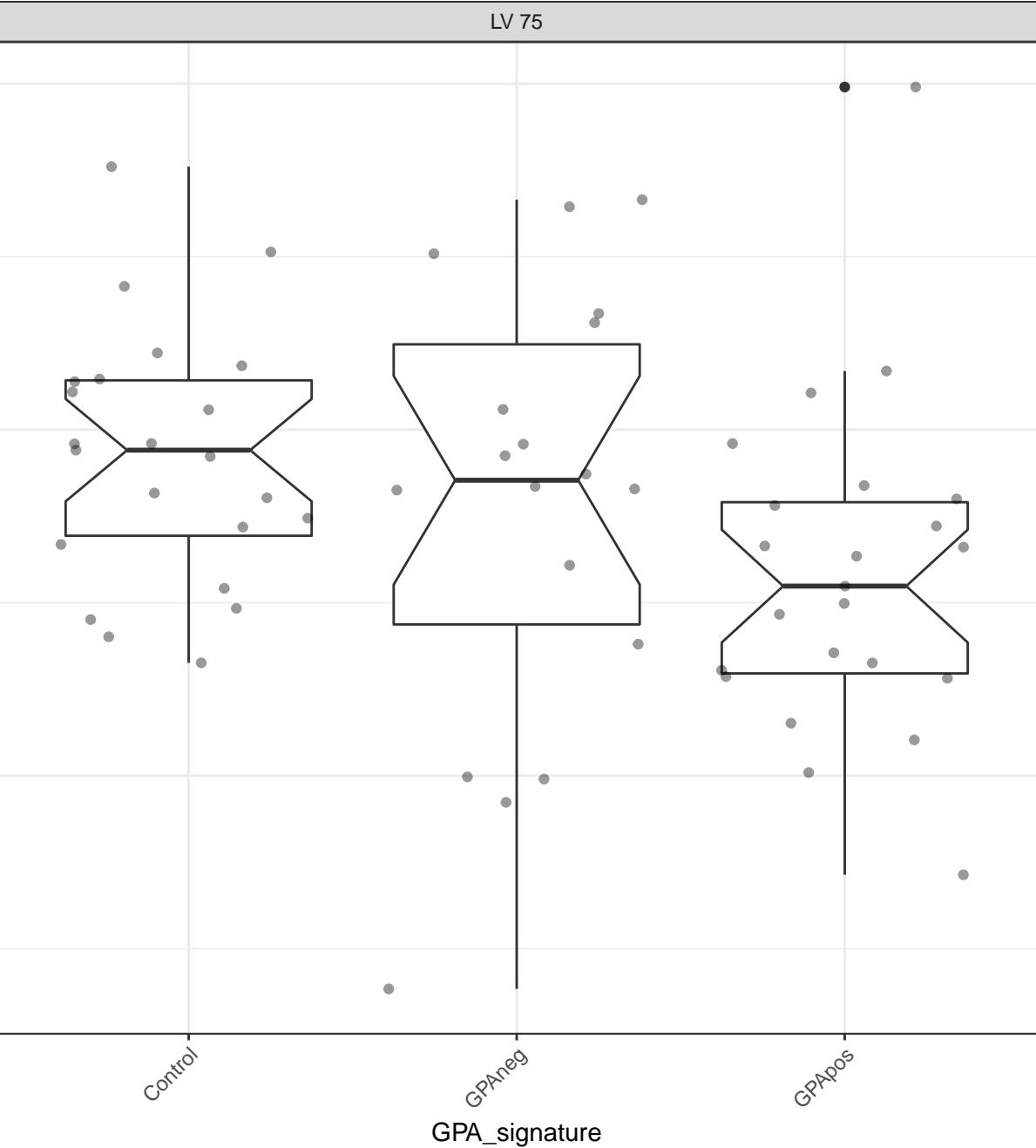
-0.05

Control

GPAneg

GPAPos

GPA\_signature



## LV 76

Value

0.025

0.000

-0.025

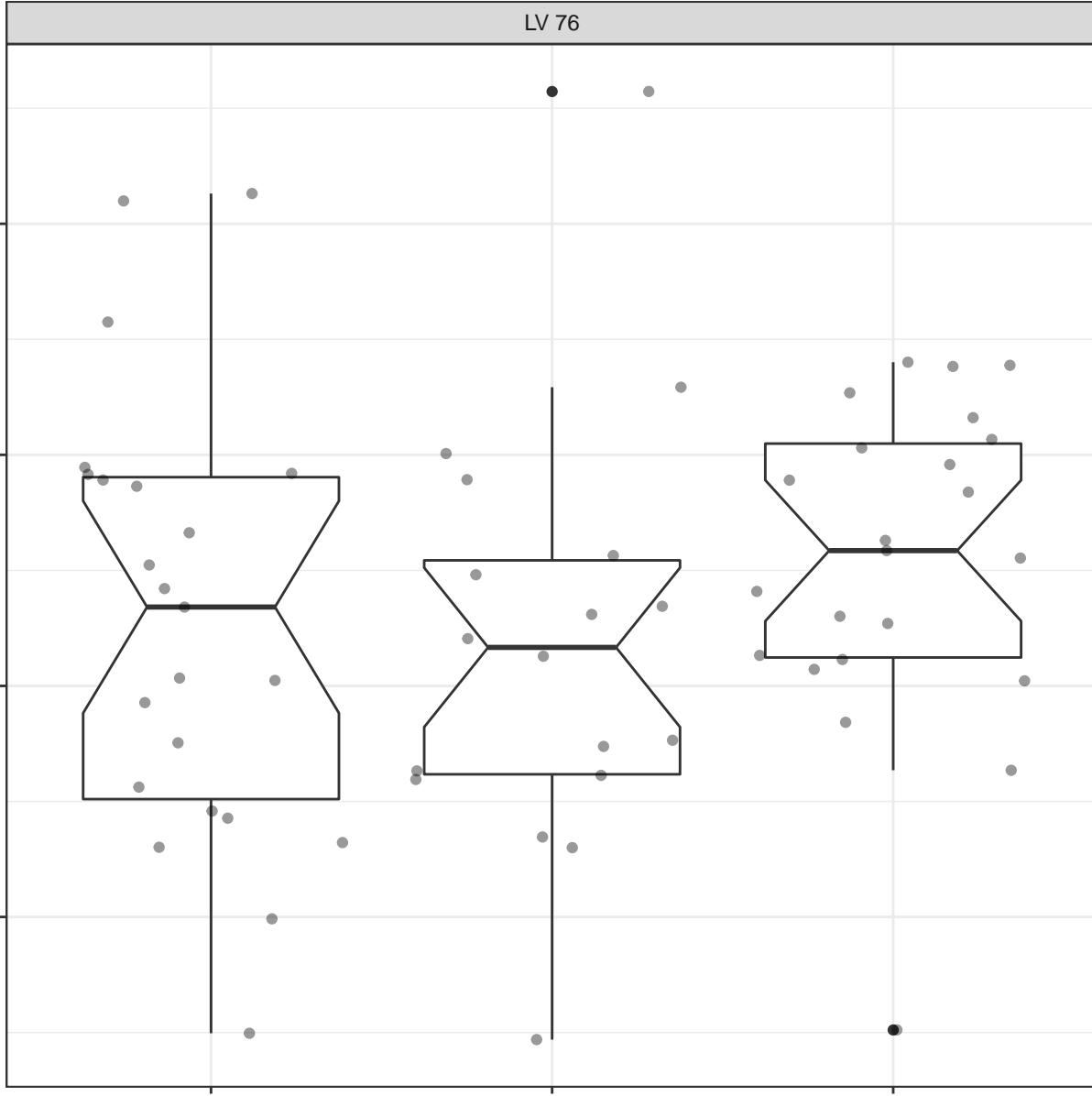
-0.050

Control

GPA\_signature

GPAneg

GPAPos



LV 77

Value

0.025

0.000

-0.000

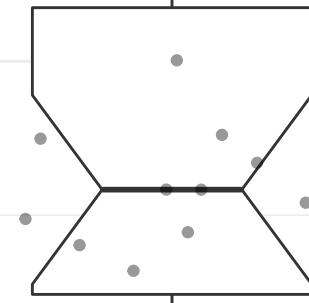
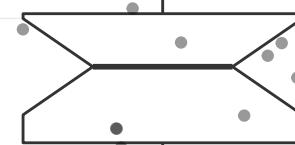
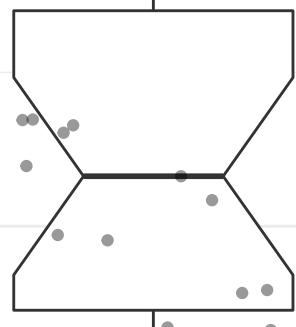
-0.025

Control

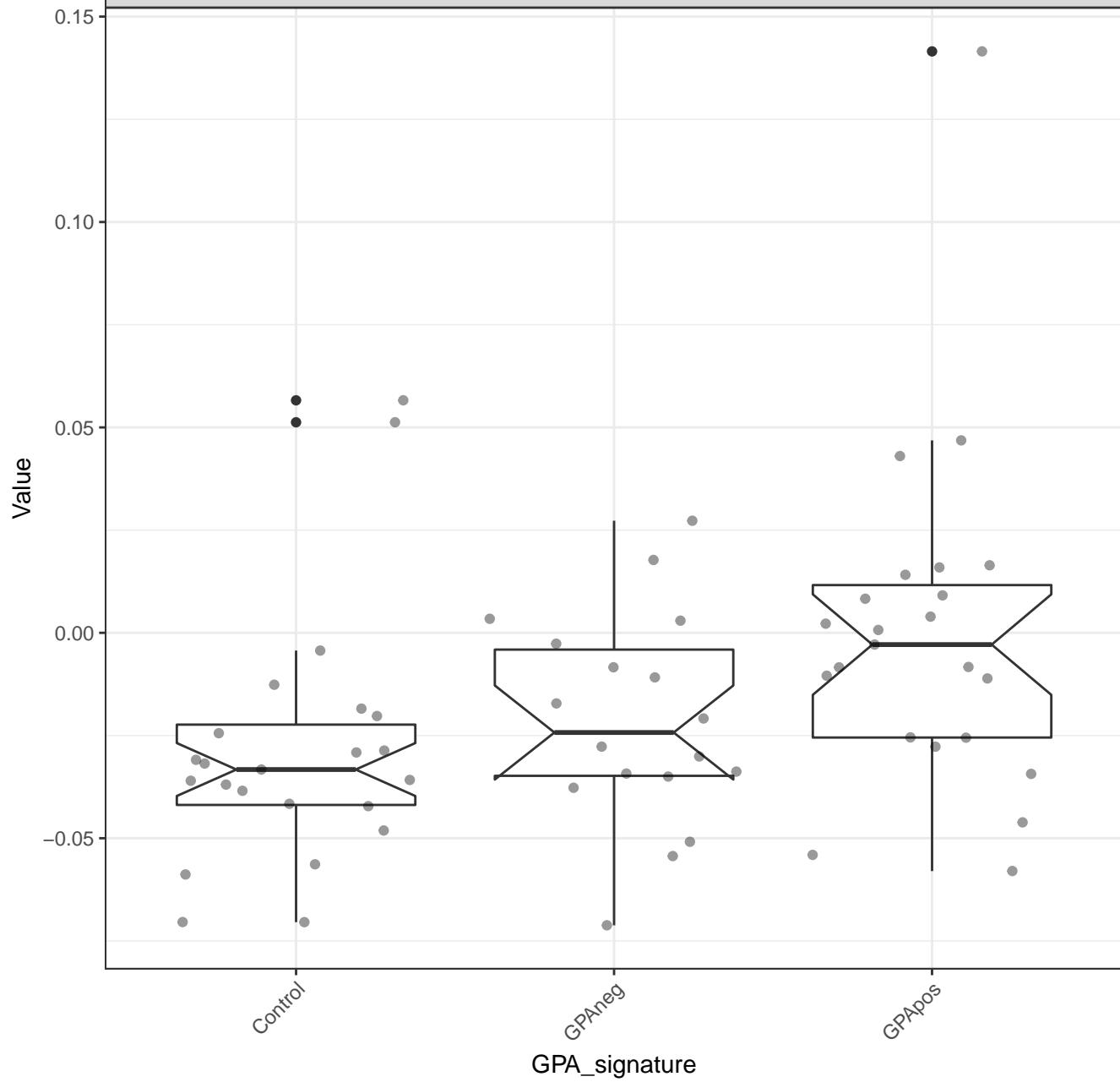
GPAneg

GPAPos

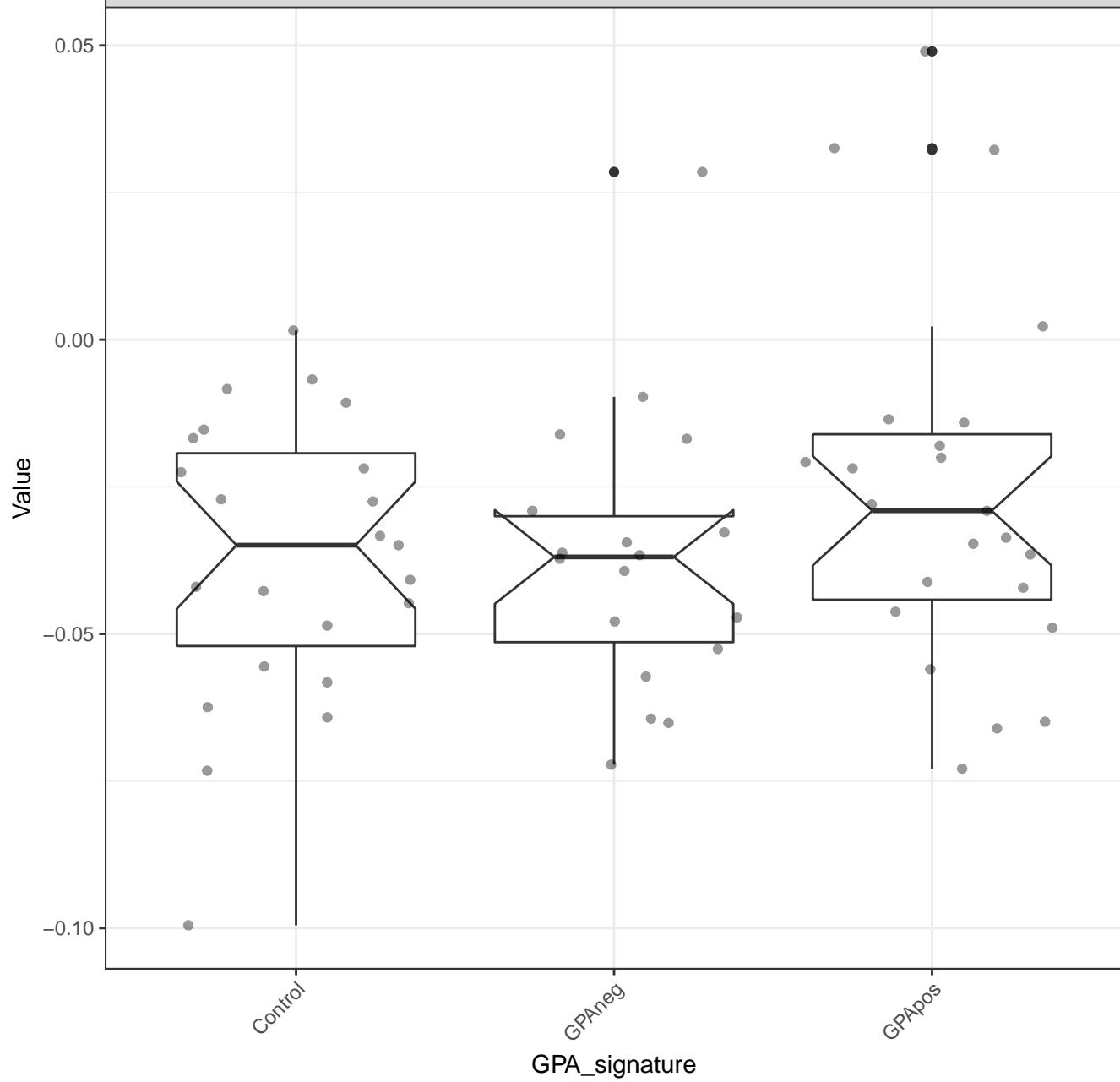
GPA\_signature



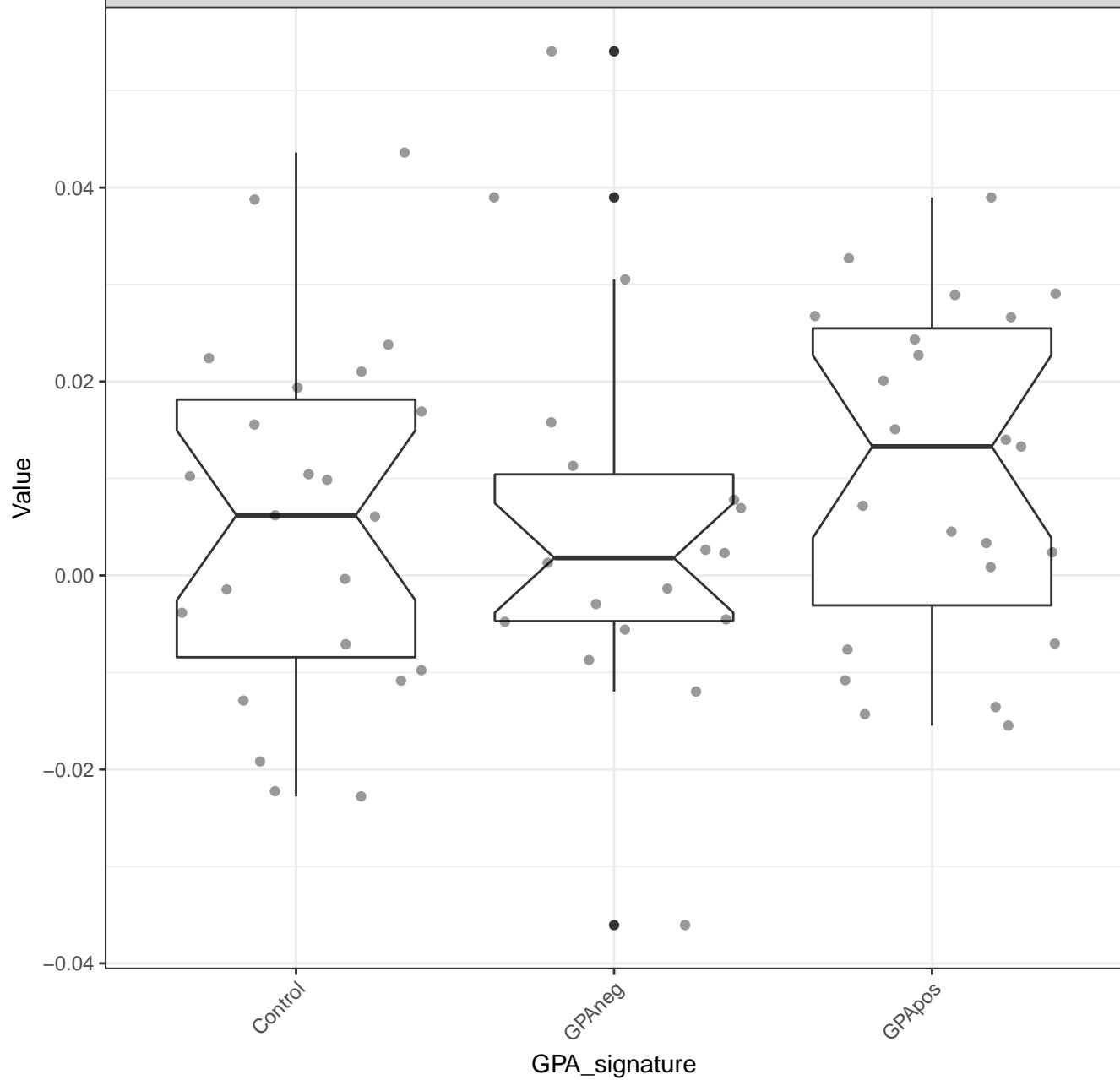
LV 78



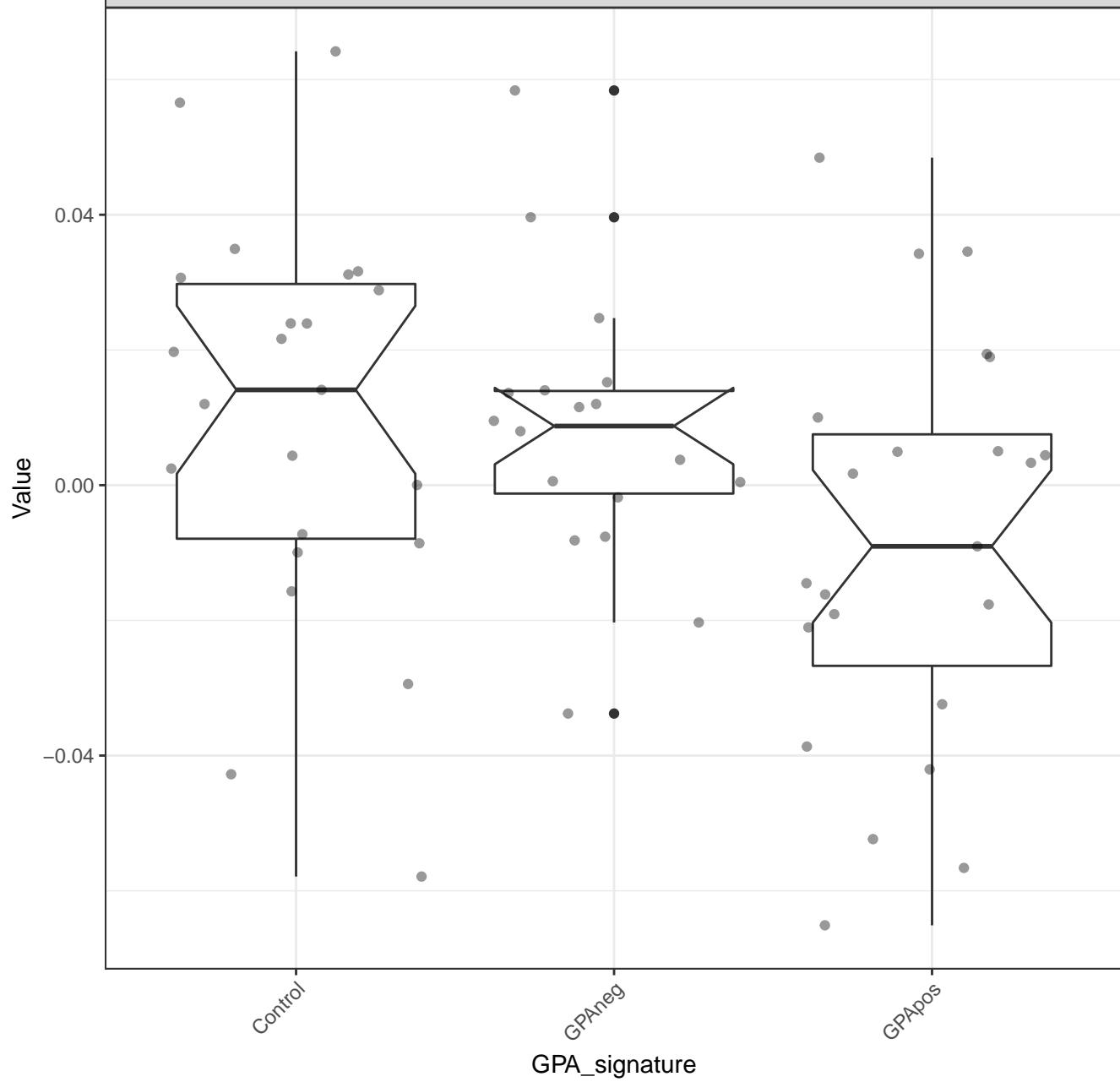
LV 79



## LV 80



## 81,PID\_INTEGRIN1\_PATHWAY



## 82,PID\_RAC1\_PATHWAY

Value

0.08

0.04

0.00

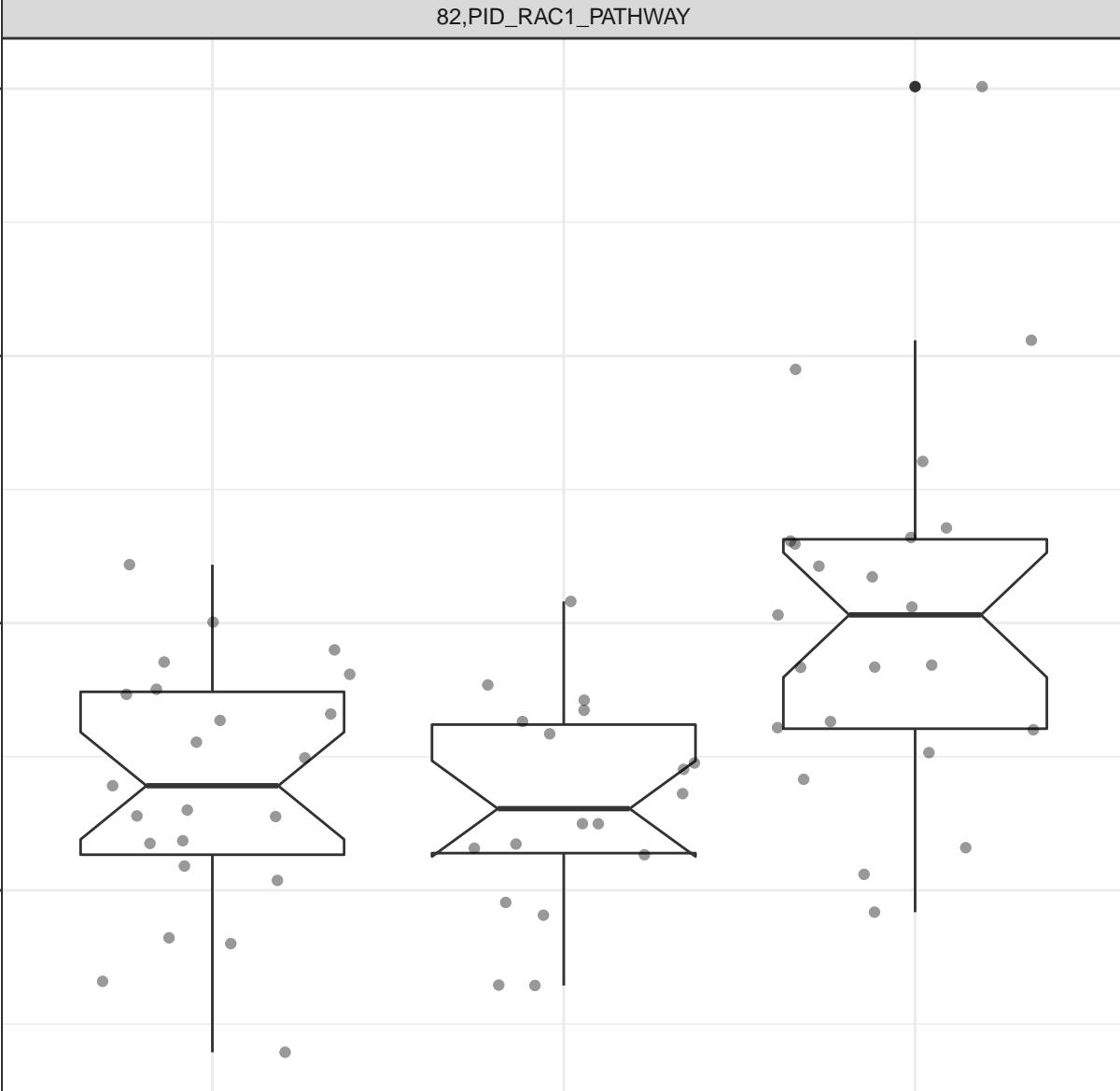
-0.04

Control

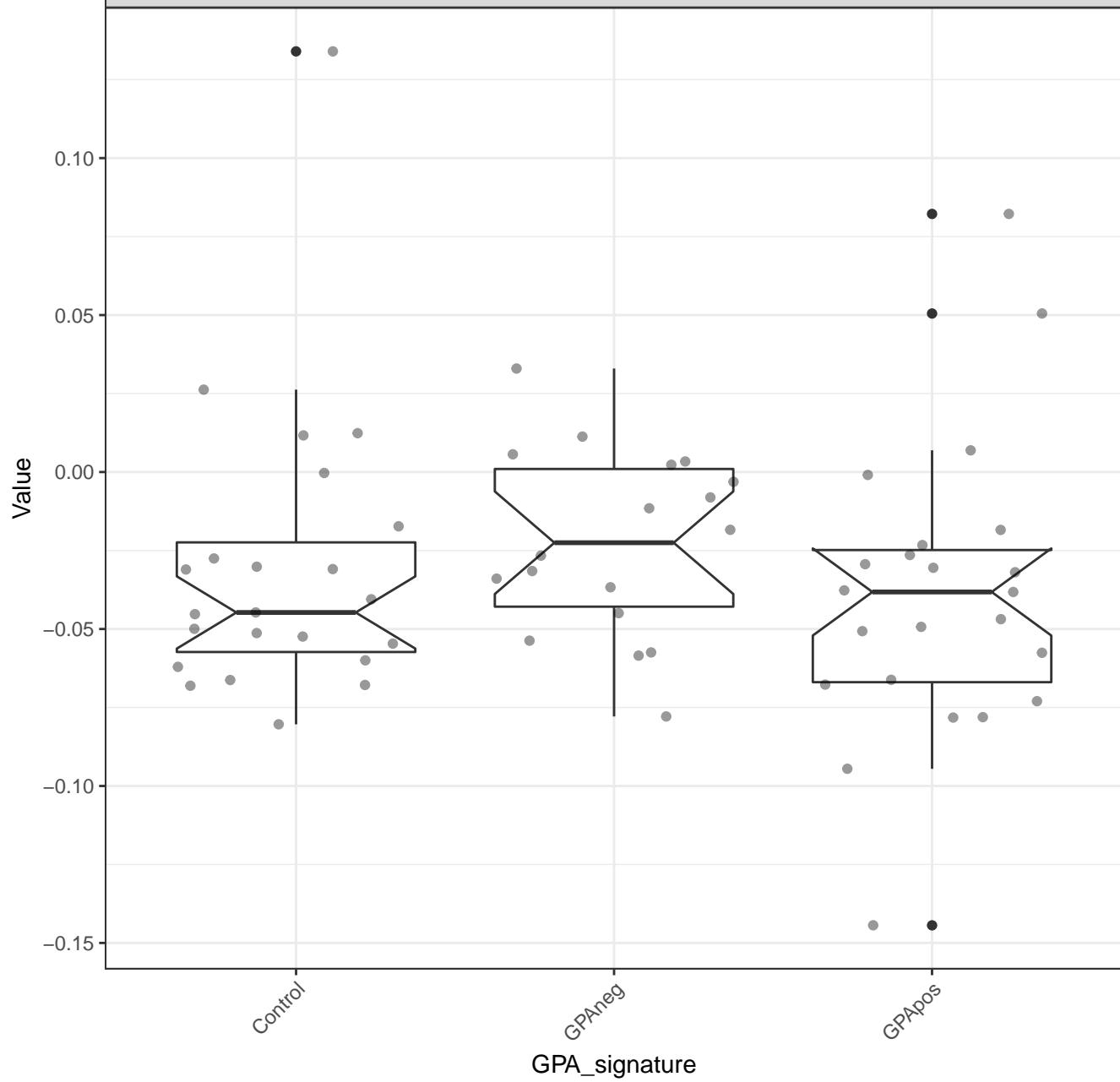
GPAneg

GPApos

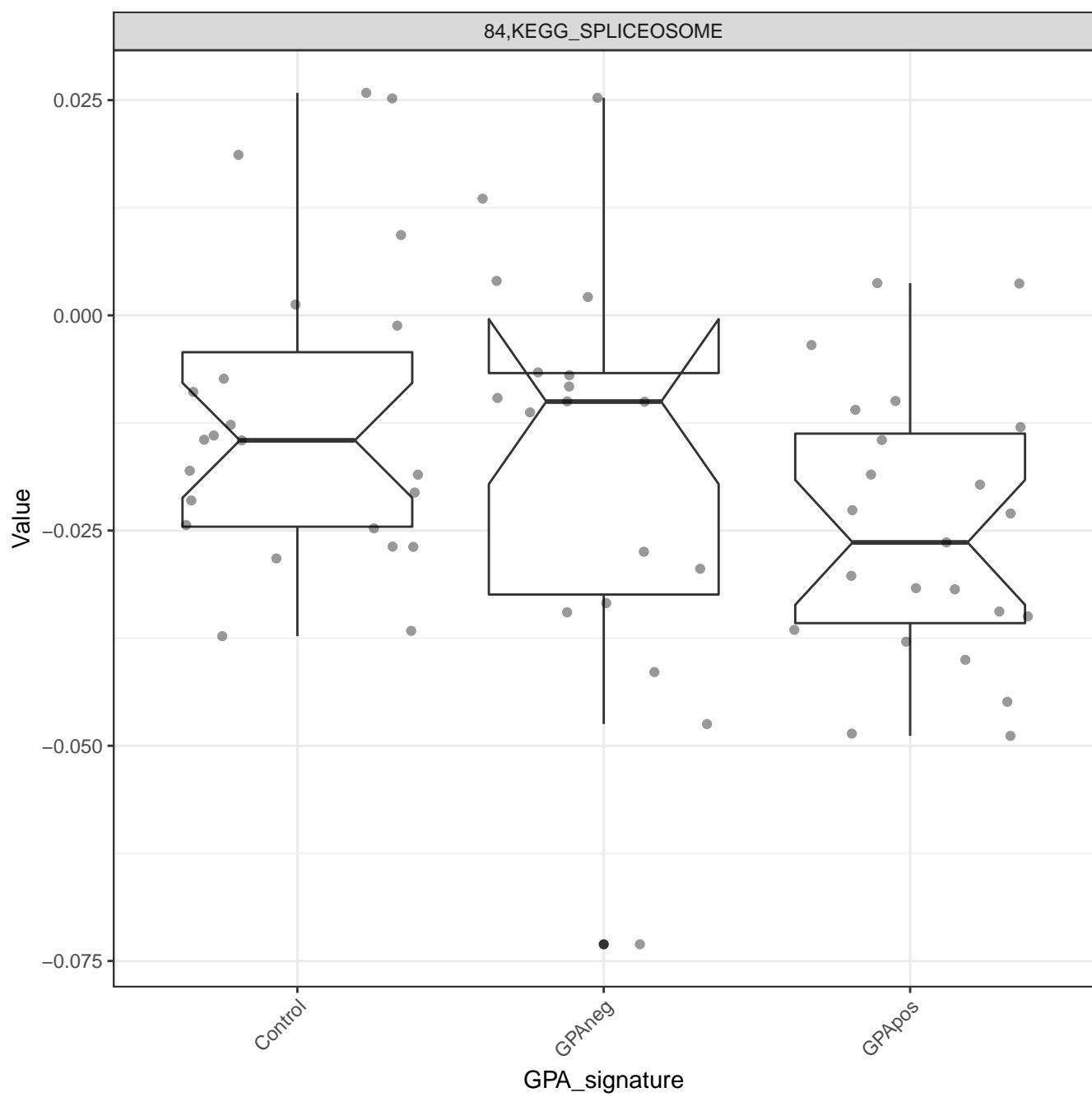
GPA\_signature



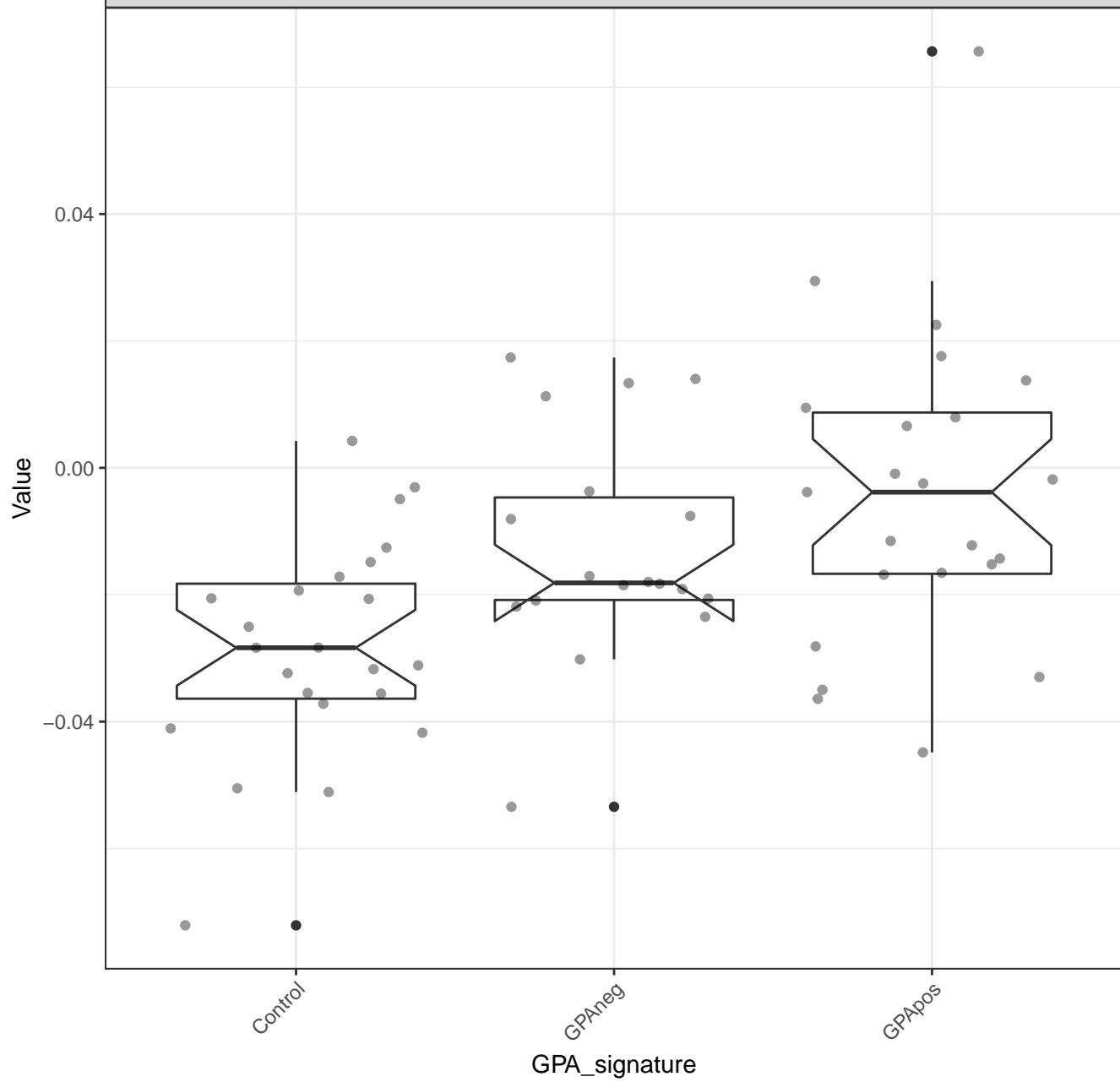
## LV 83



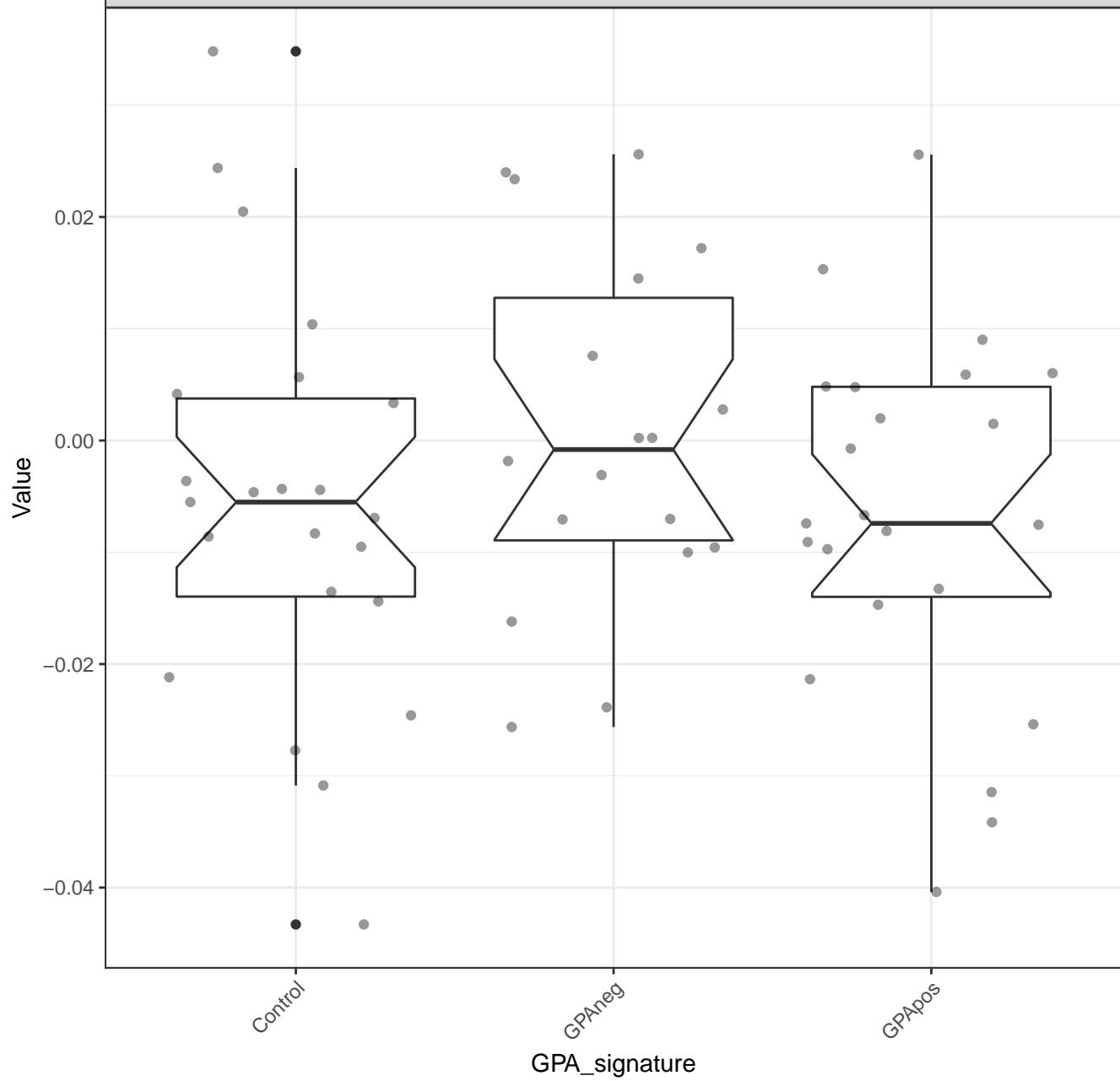
## 84,KEGG\_SPLICEOSOME



LV 85



LV 86



LV 87

Value

0.04

0.02

0.00

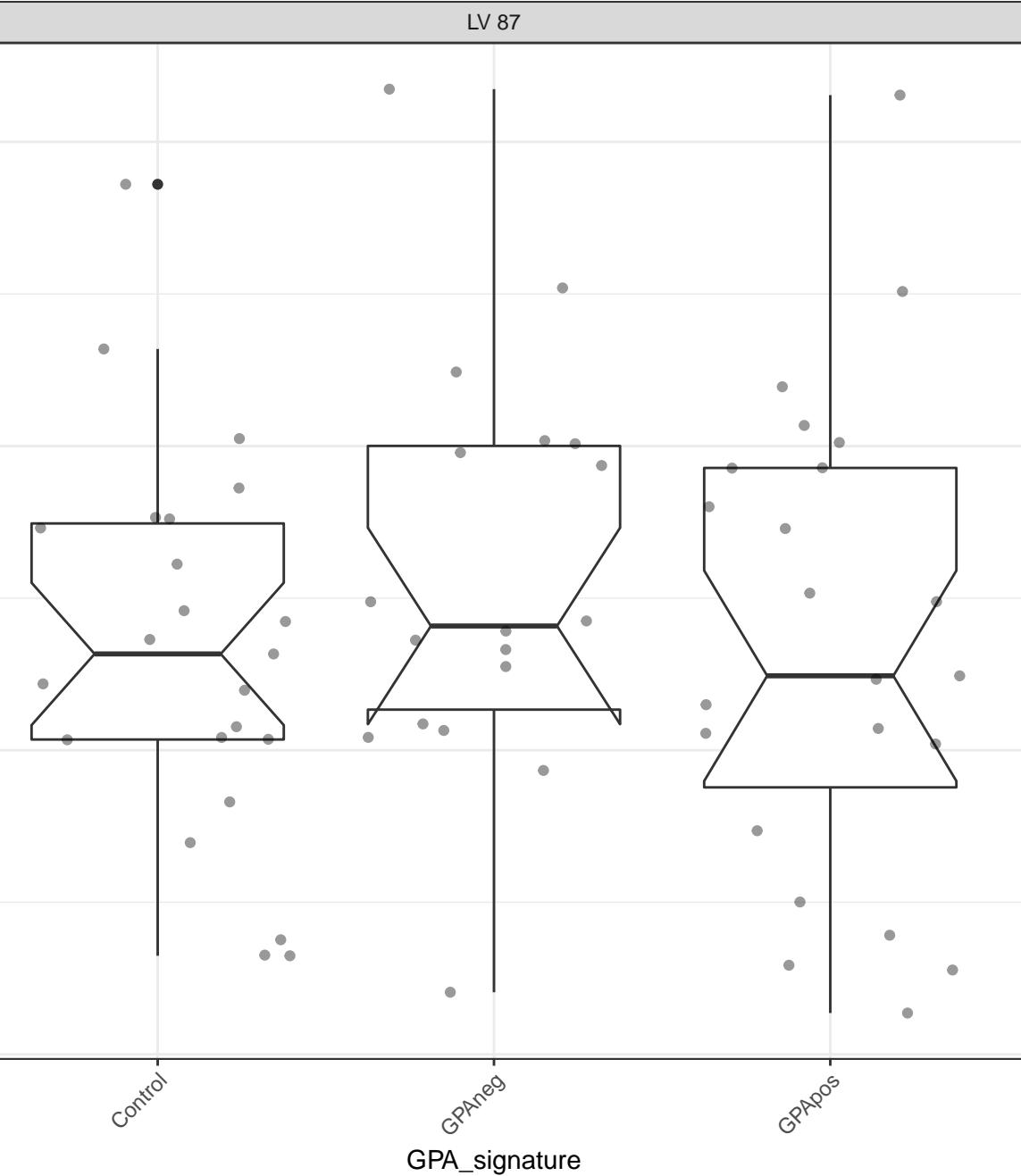
-0.02

Control

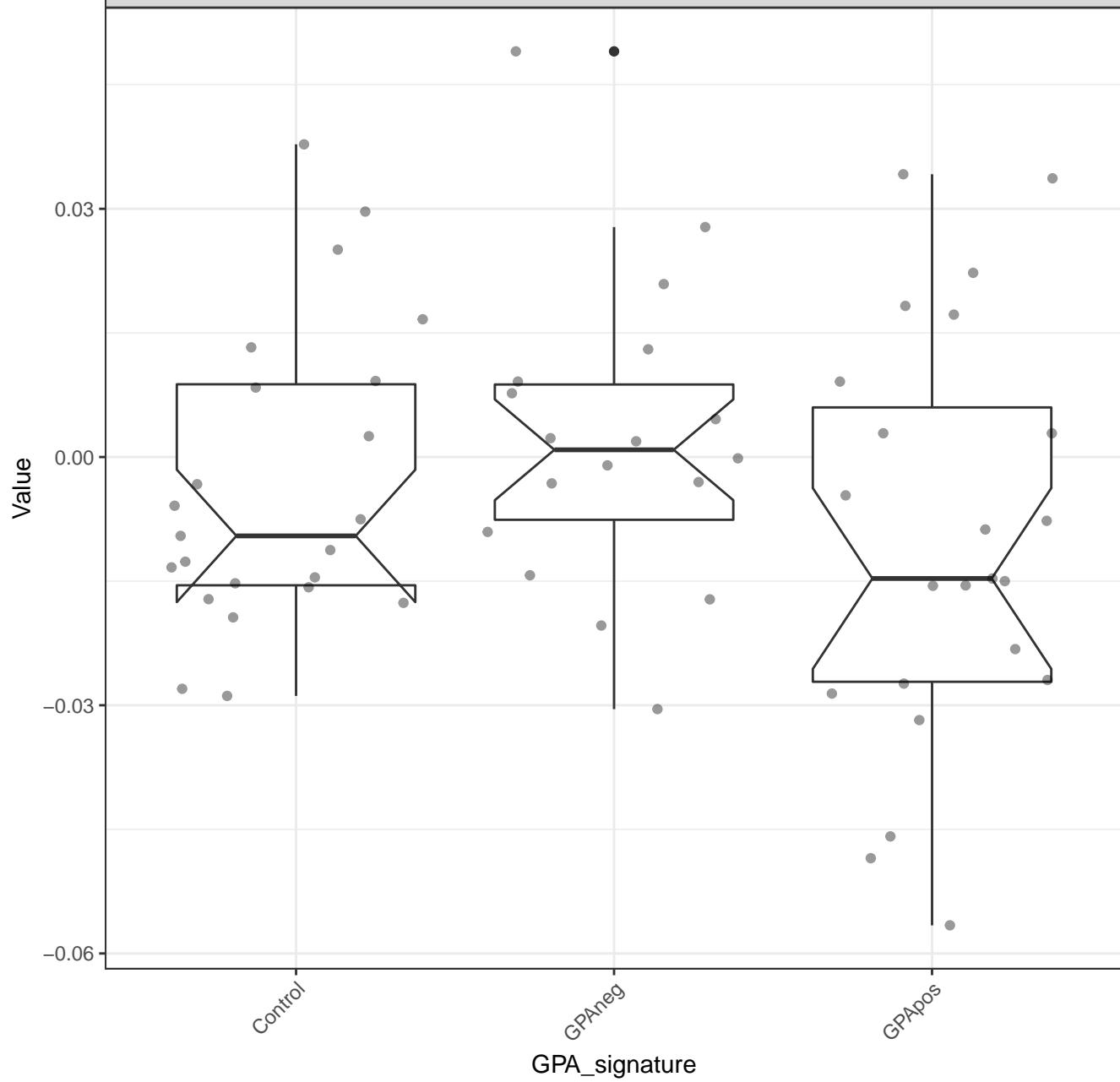
GPAneg

GPApos

GPA\_signature



LV 88



LV 89

Value

0.04

0.02

0.00

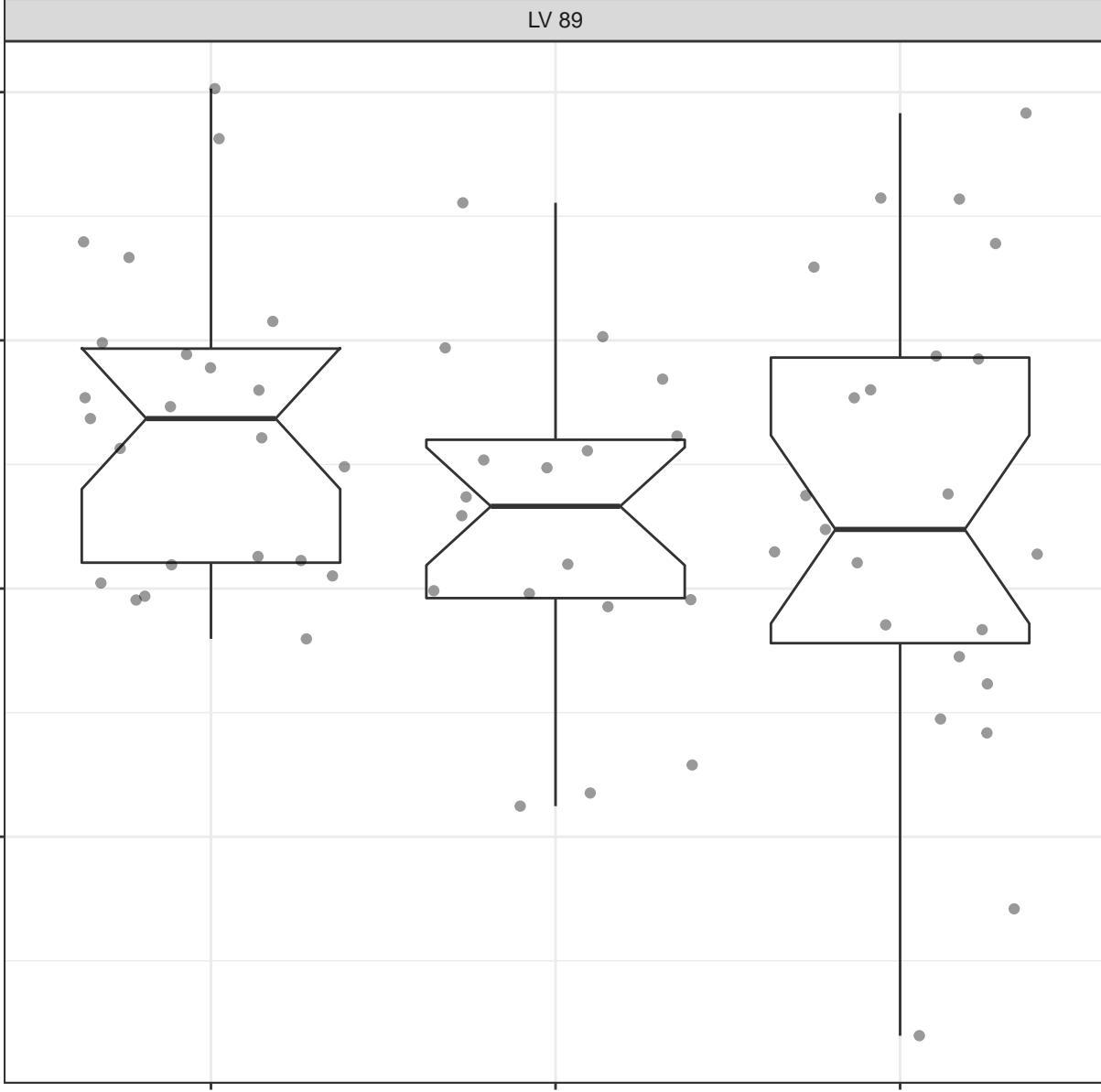
-0.02

Control

GPAneg

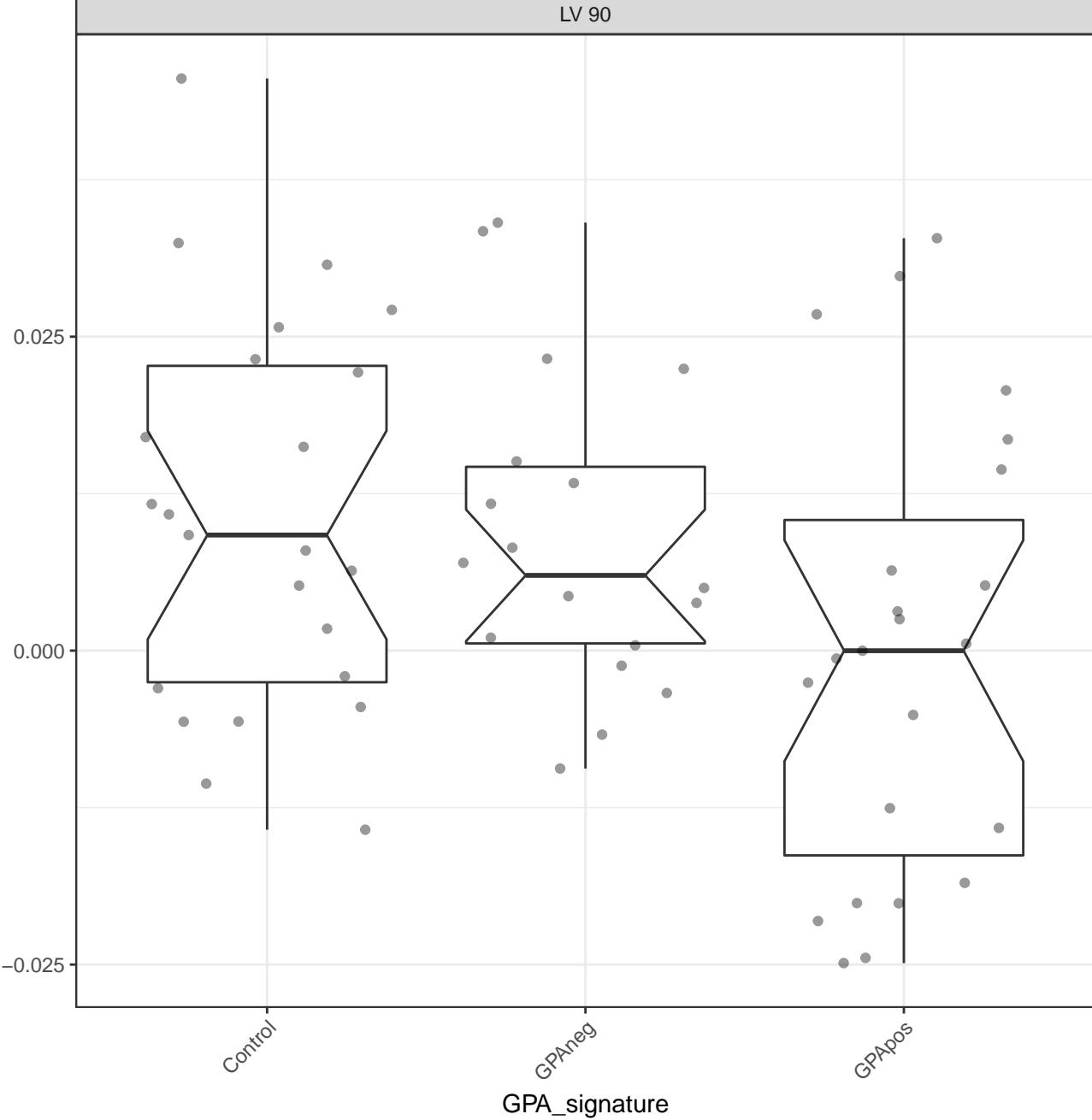
GPApos

GPA\_signature



## LV 90

Value



## 91,KEGG\_LYSOSOME

Value

0.15

0.10

0.05

0.00

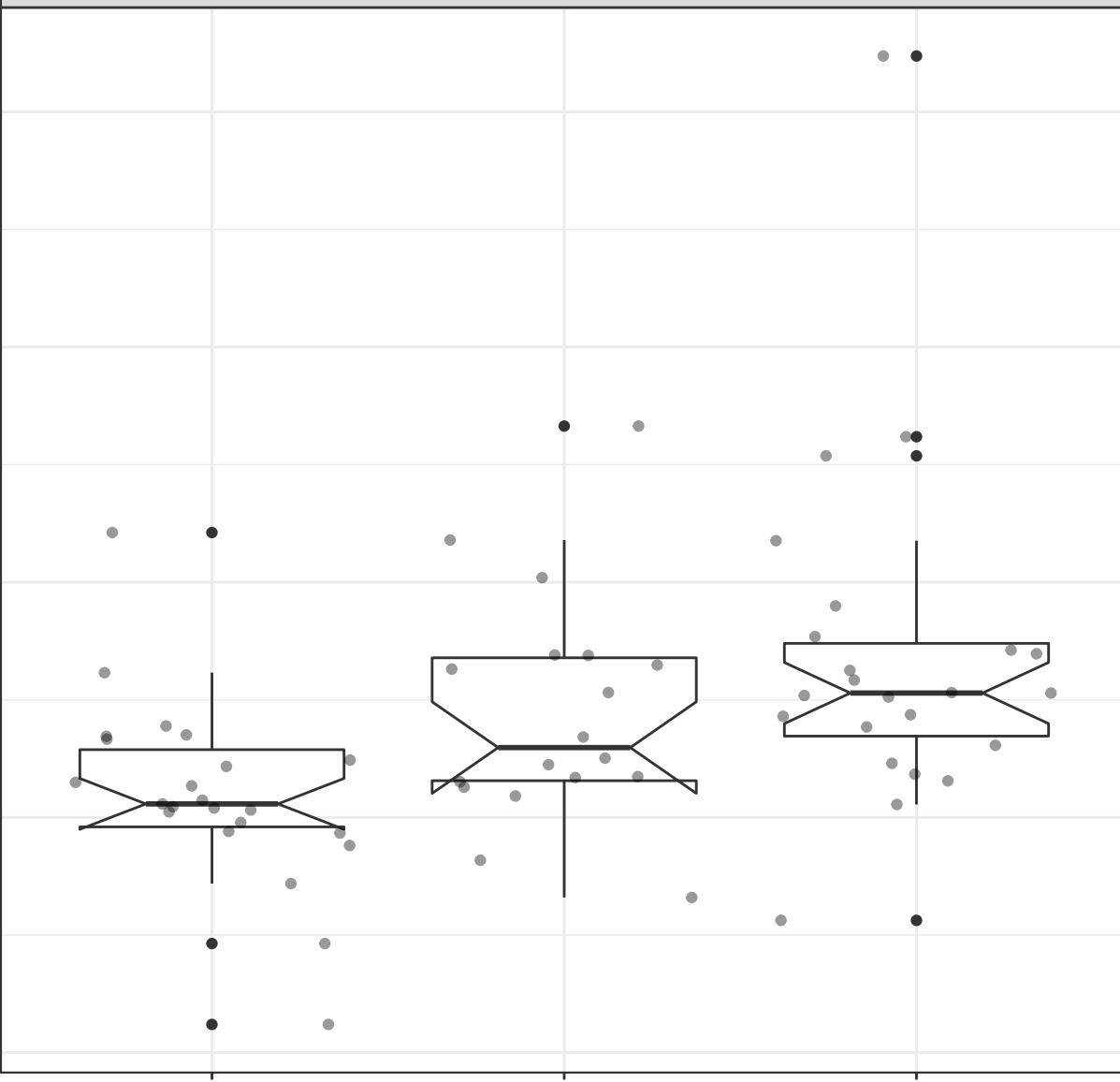
-0.05

Control

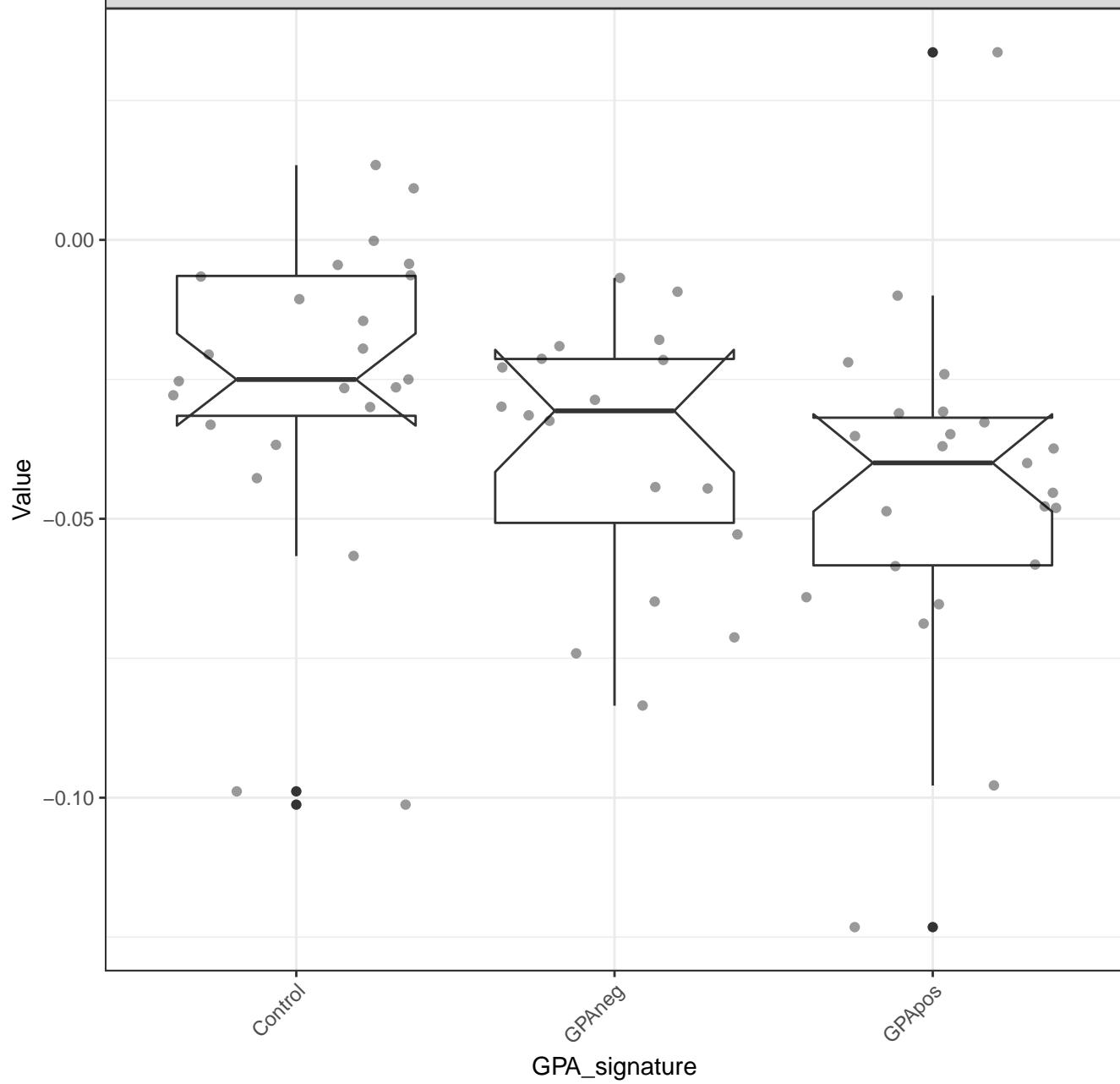
GPA\_signature

GPAneg

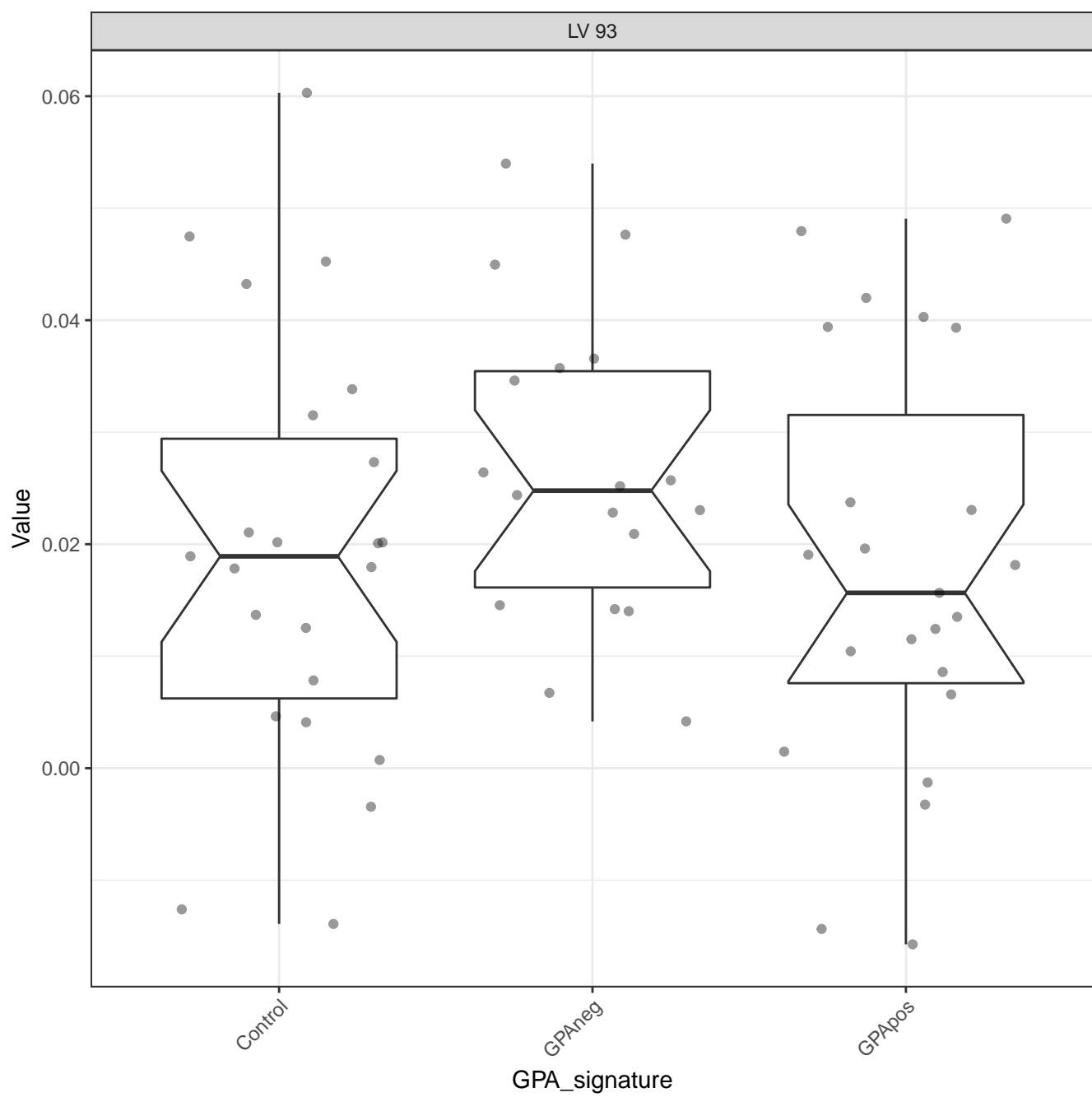
GPApos



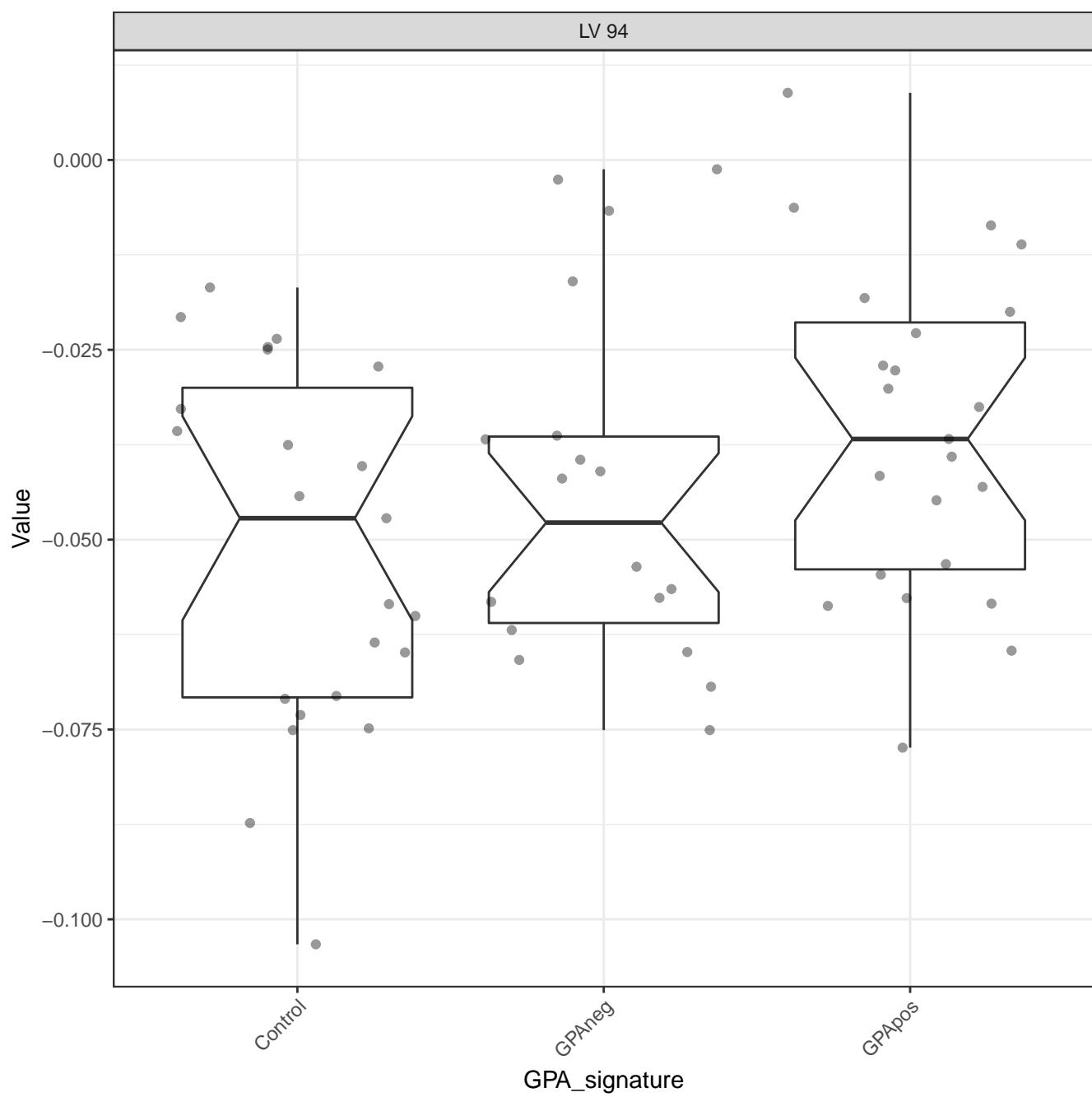
## 92,REACTOME\_CHROMOSOME\_MAINTENANCE



## LV 93



## LV 94



## LV 95

Value

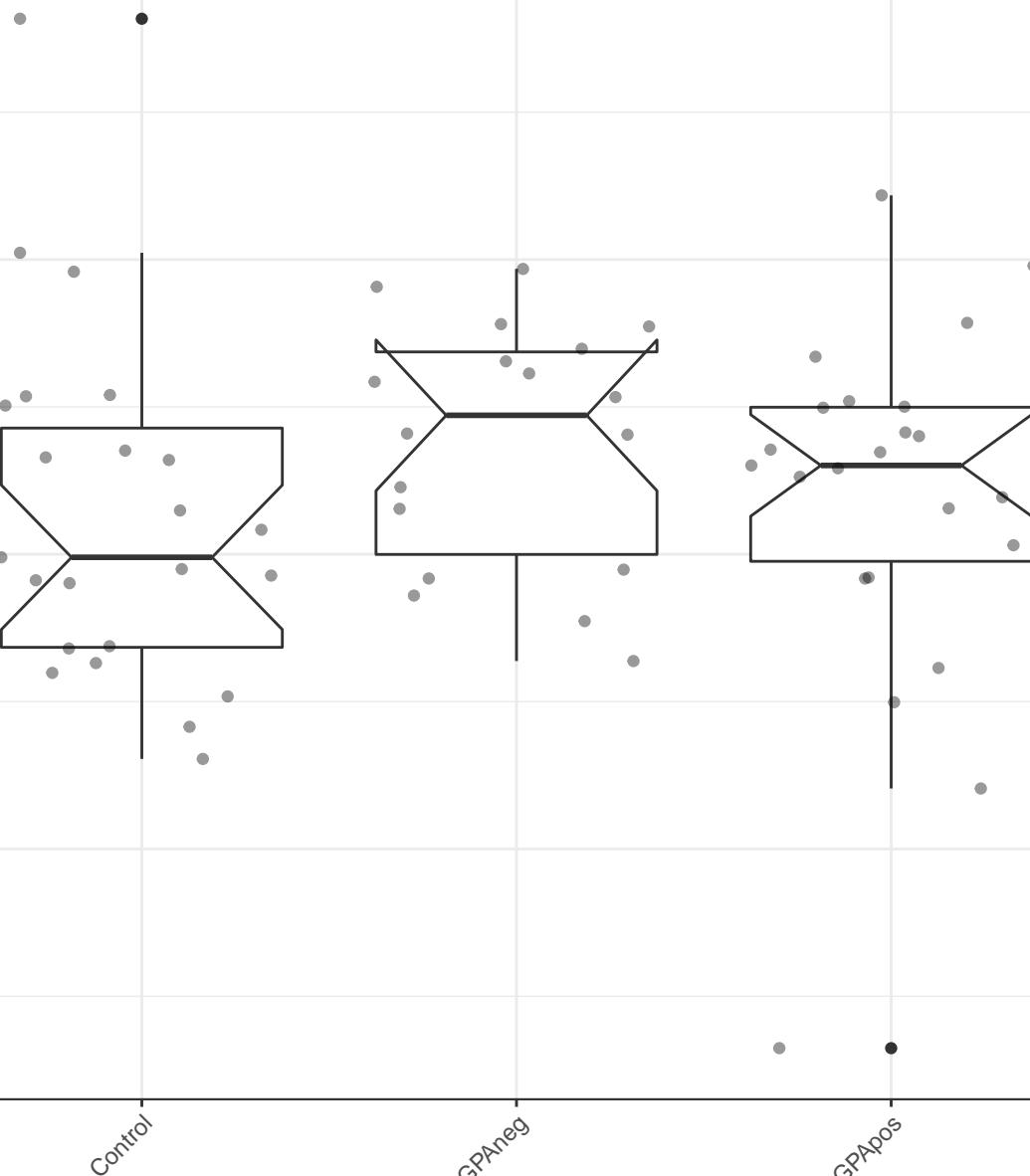
0.00  
-0.05  
-0.10

Control

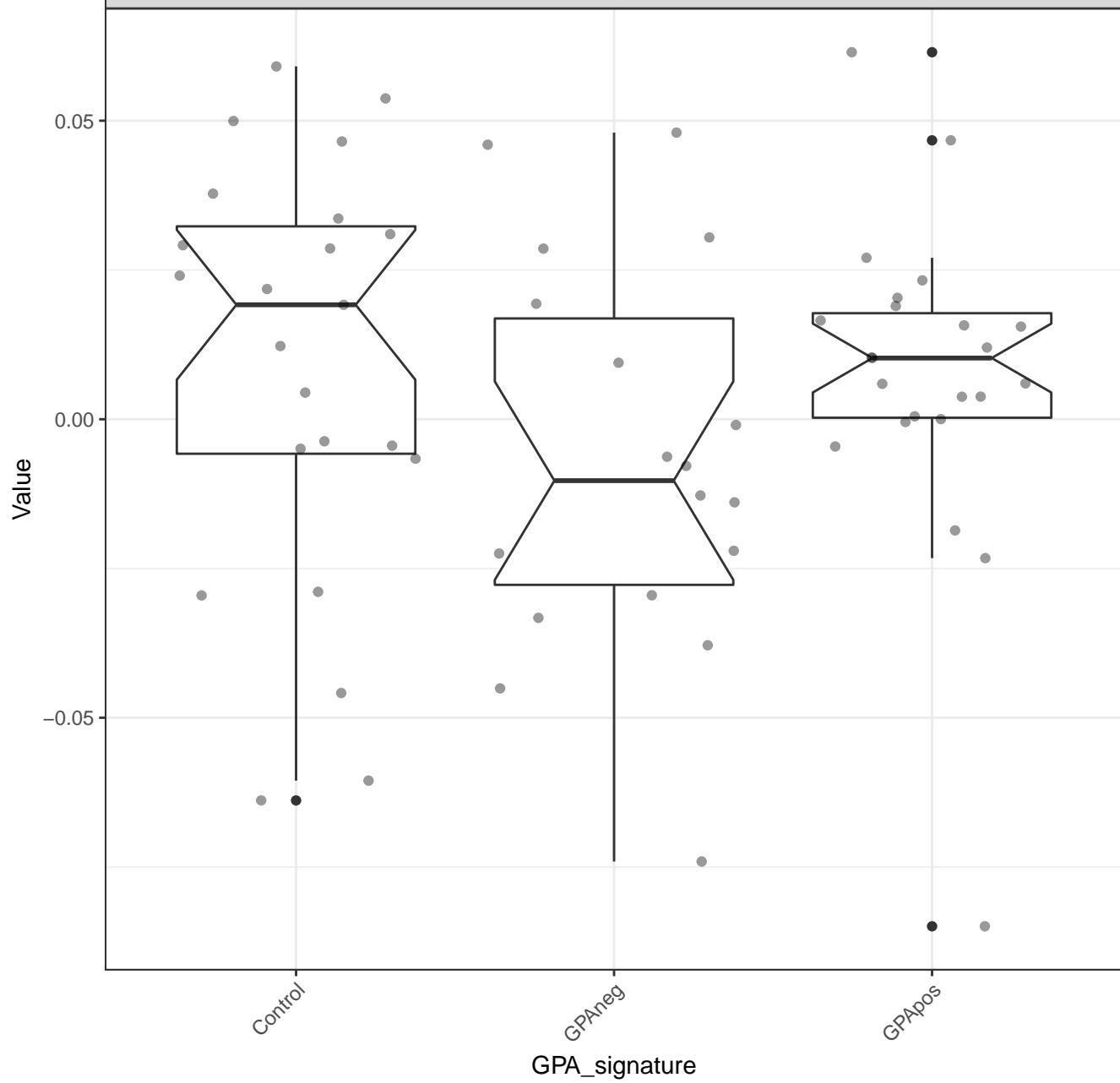
GPAneg

GPAPos

GPA\_signature



## 96,SVM NK cells activated



# 97,KEGG\_ARACHIDONIC\_ACID\_METABOLISM

Value

0.050

0.025

0.000

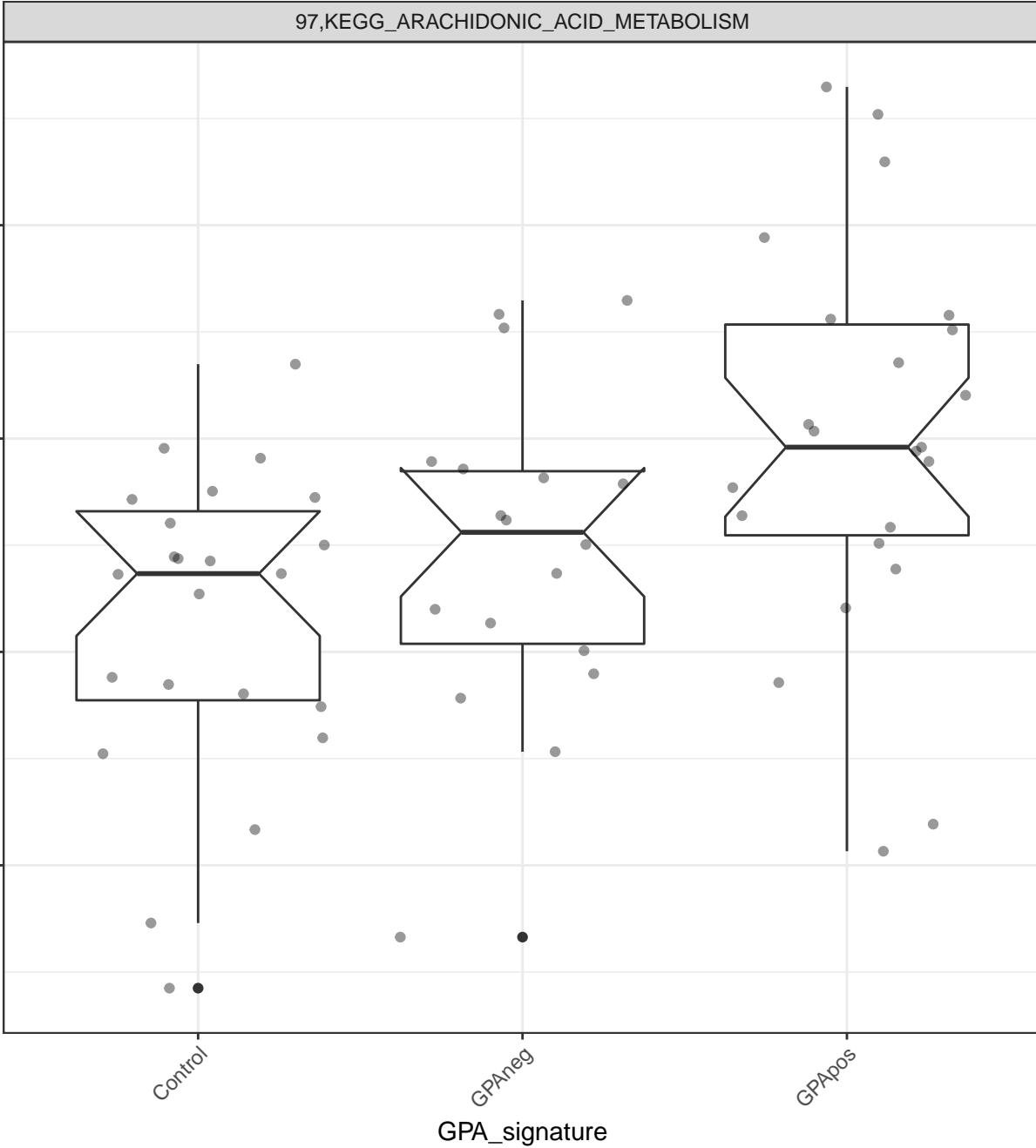
-0.025

Control

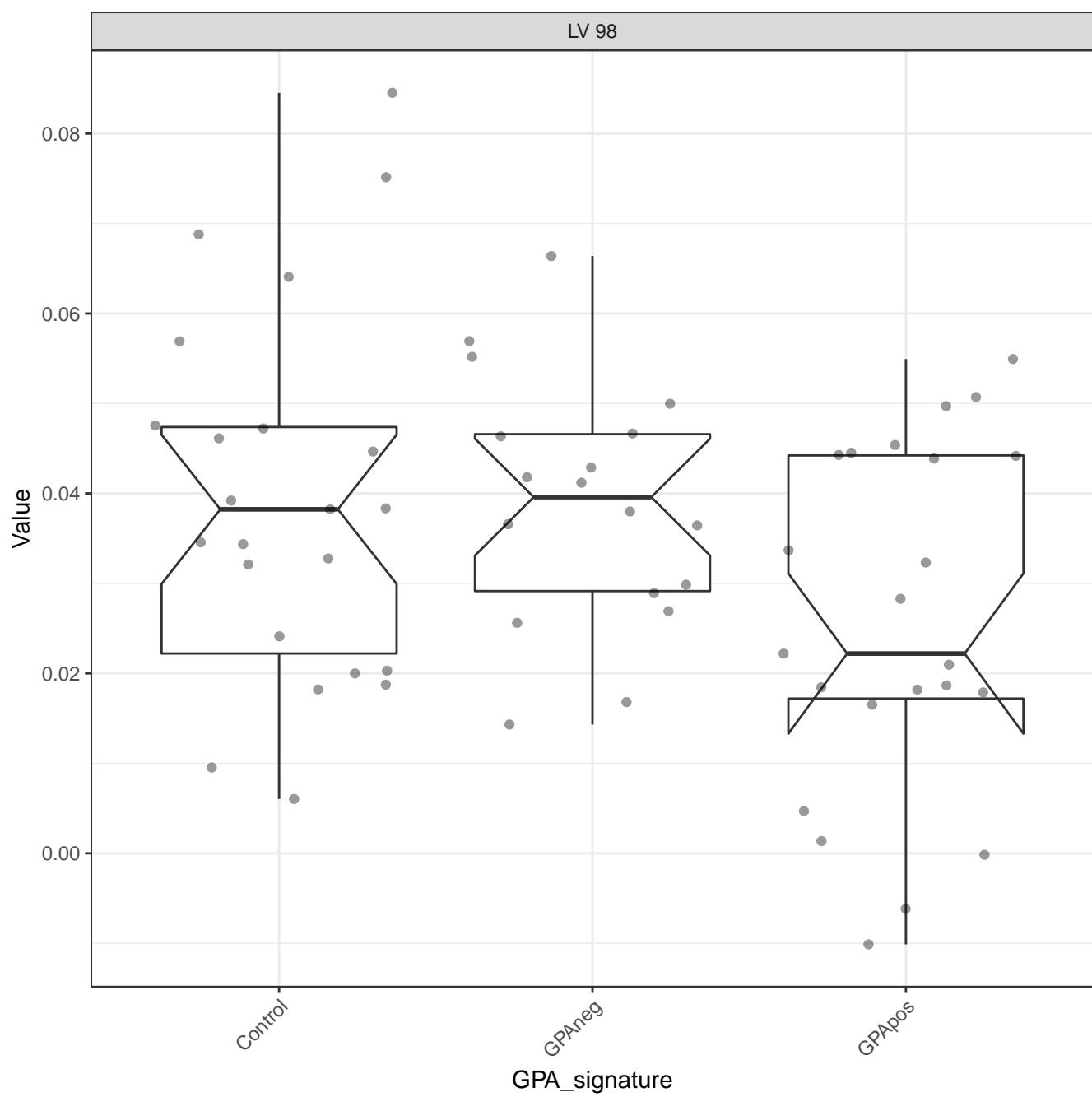
GPAneg

GPApos

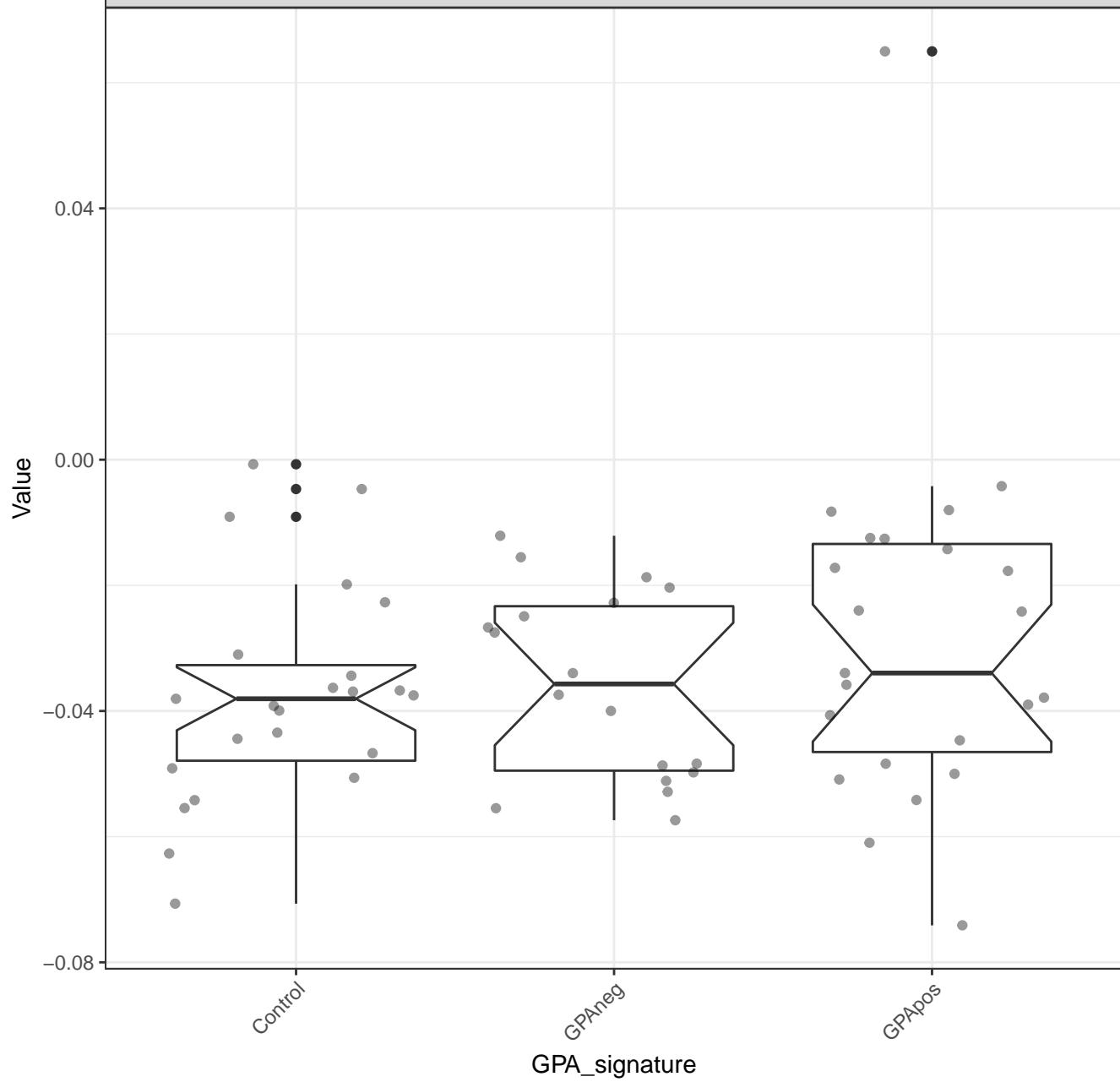
GPA\_signature



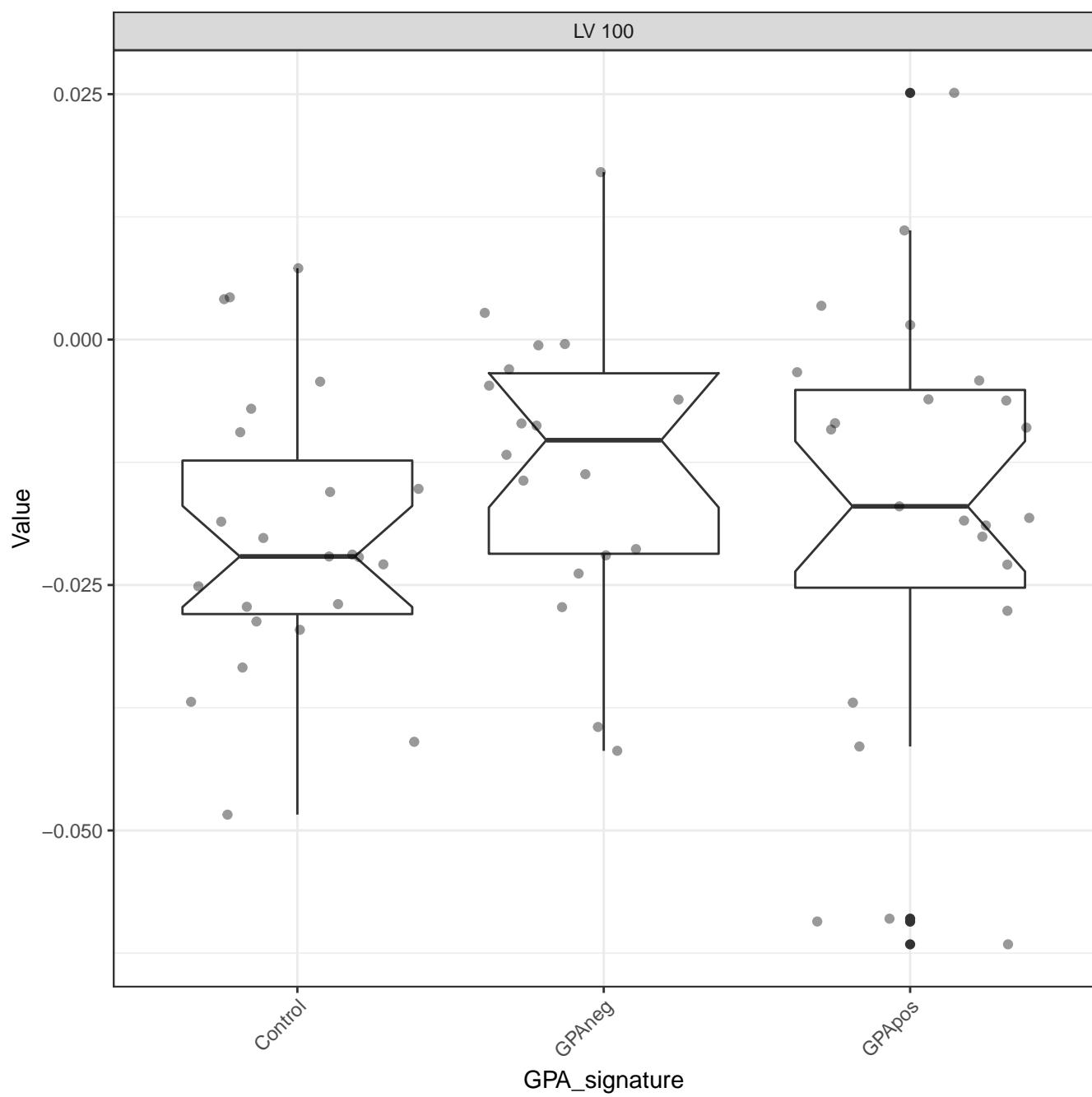
## LV 98



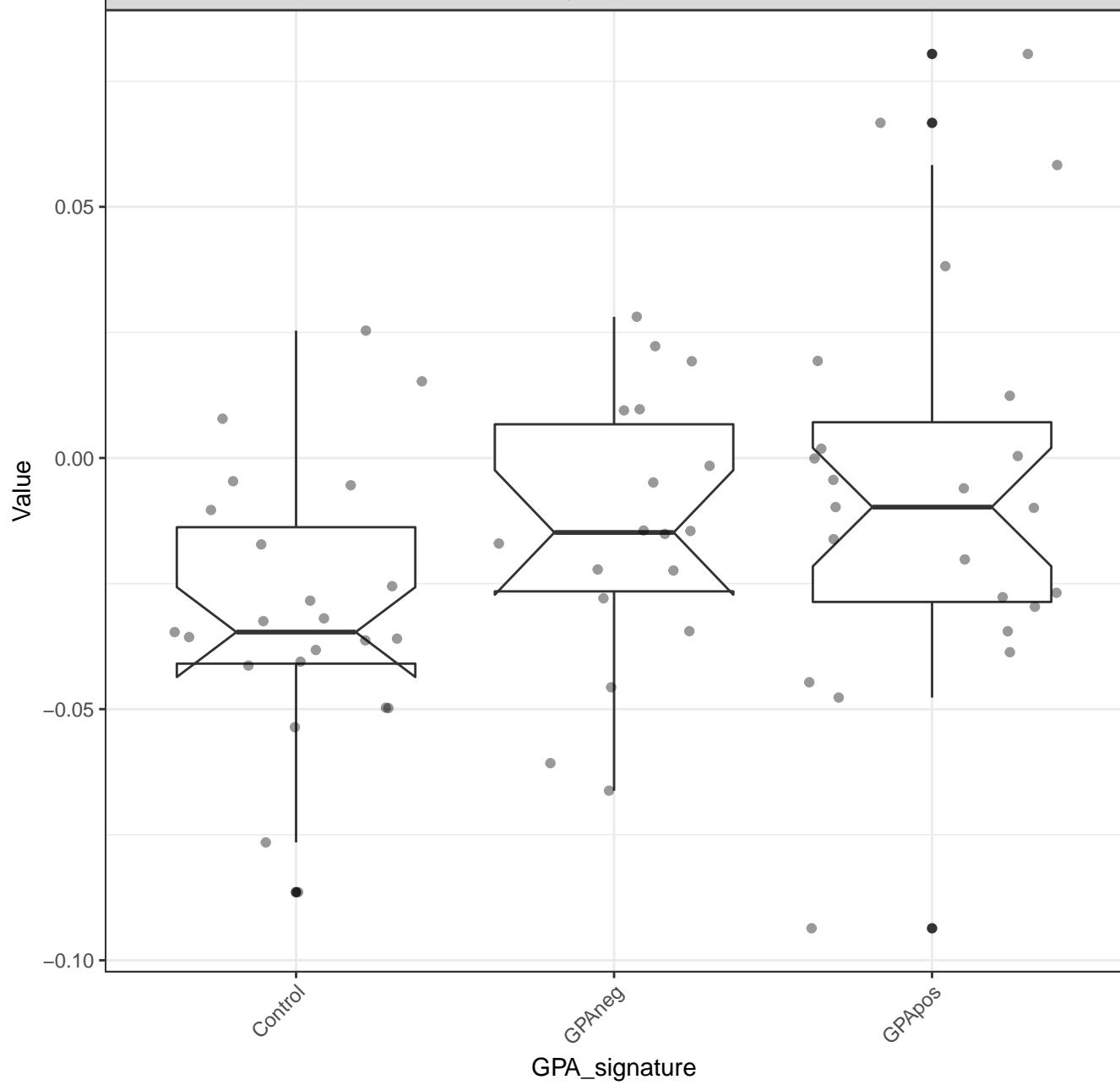
LV 99



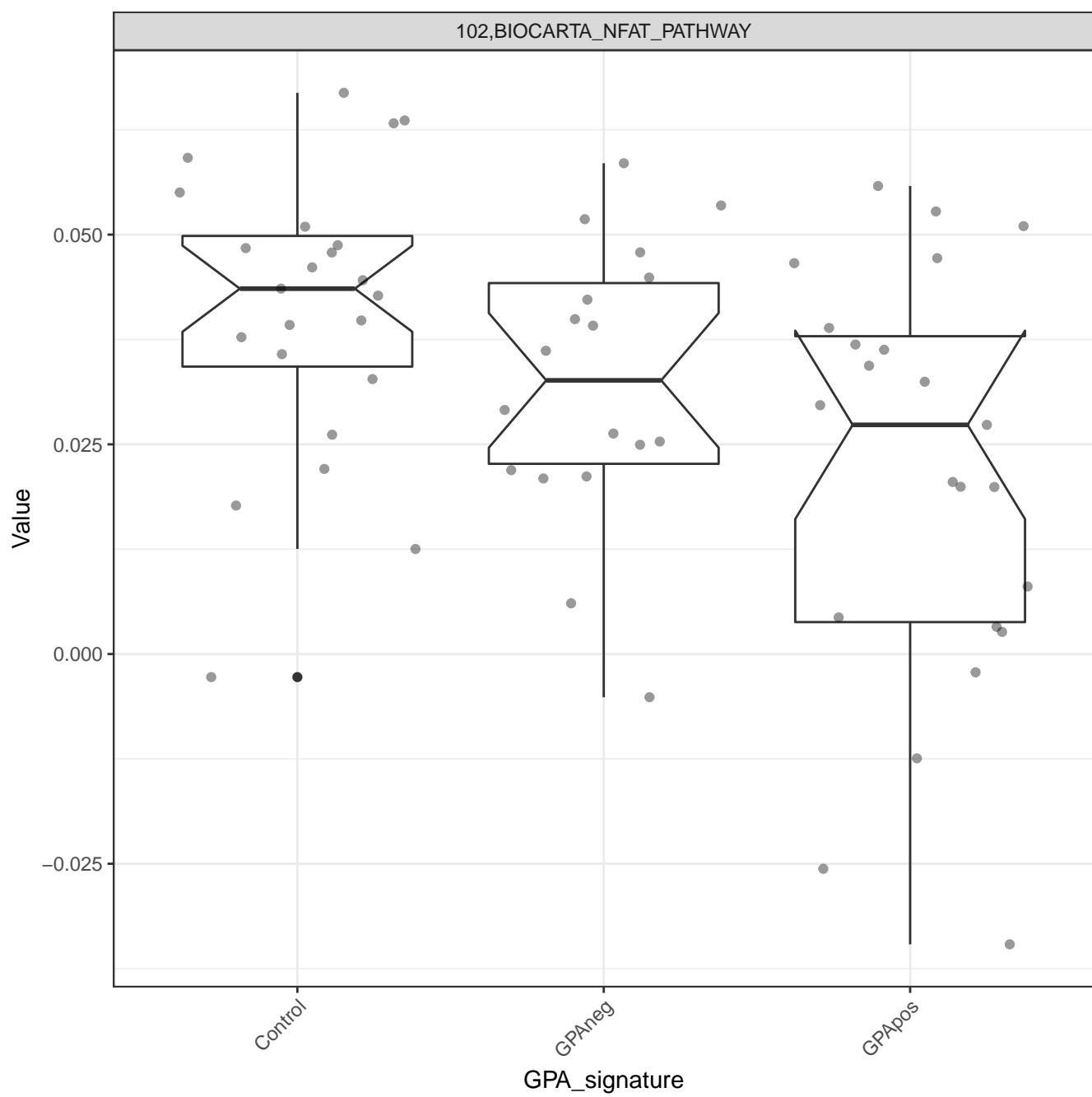
LV 100



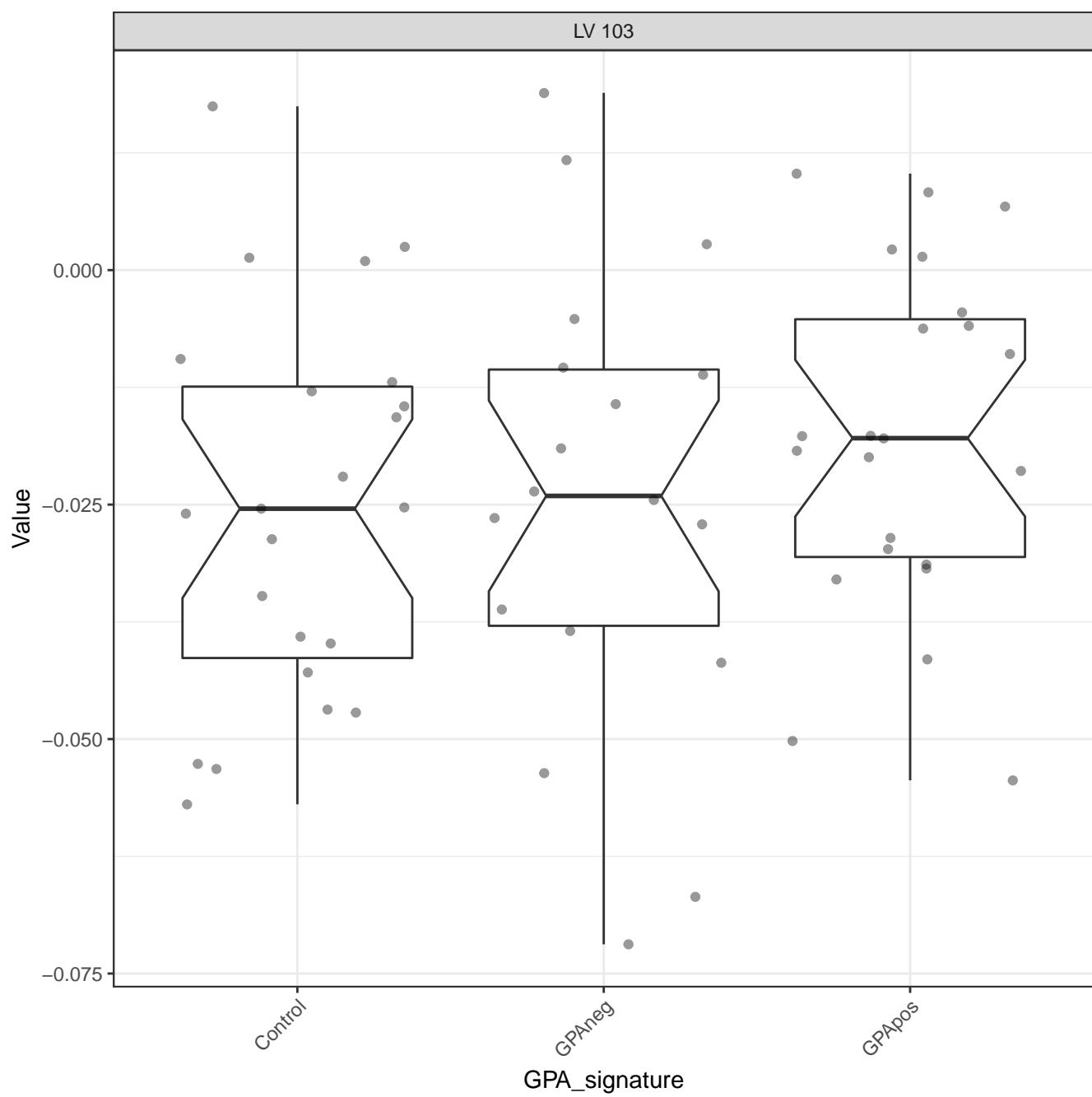
## 101,DMAP\_NKA3



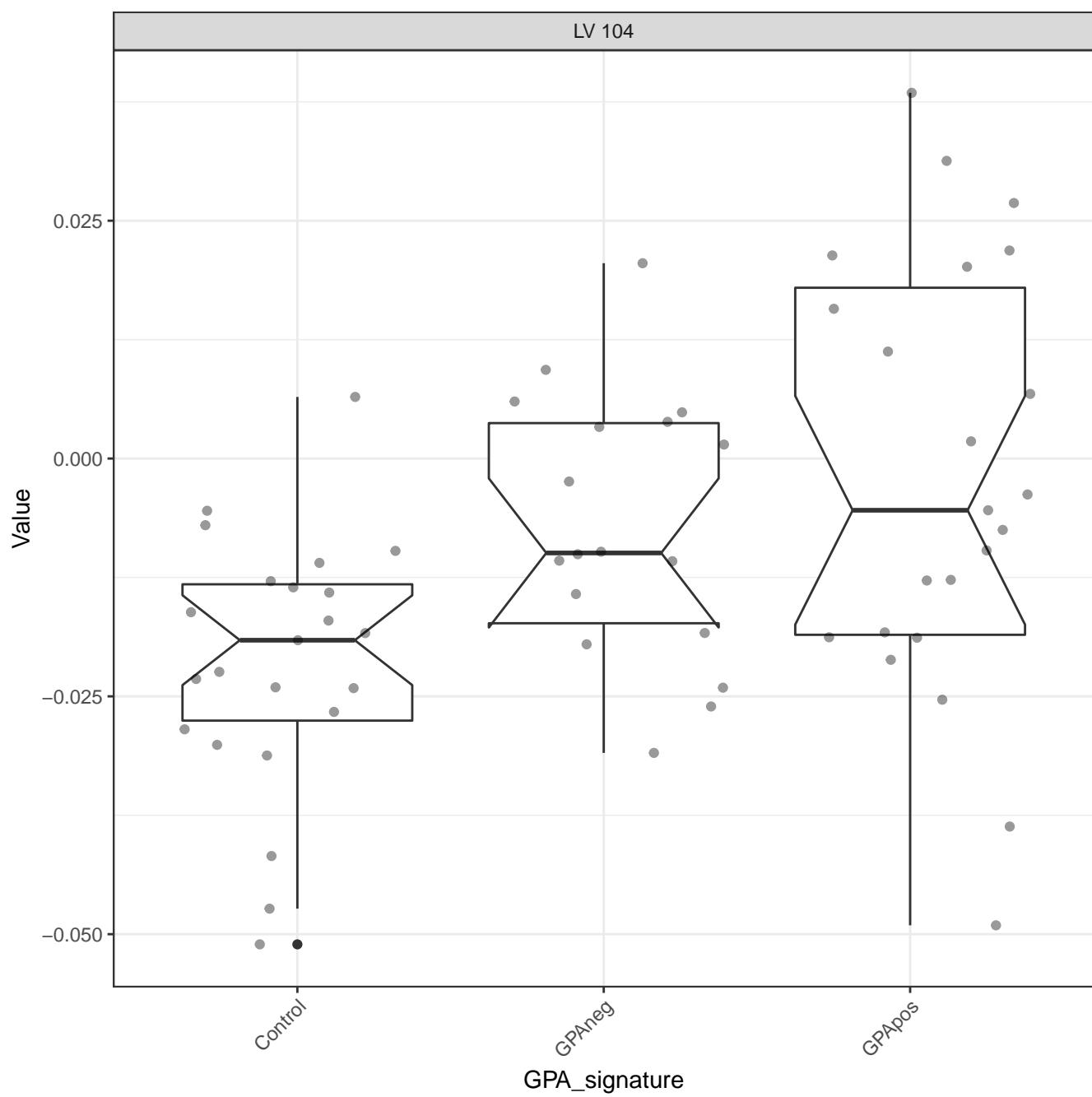
## 102,BIOCARTA\_NFAT\_PATHWAY



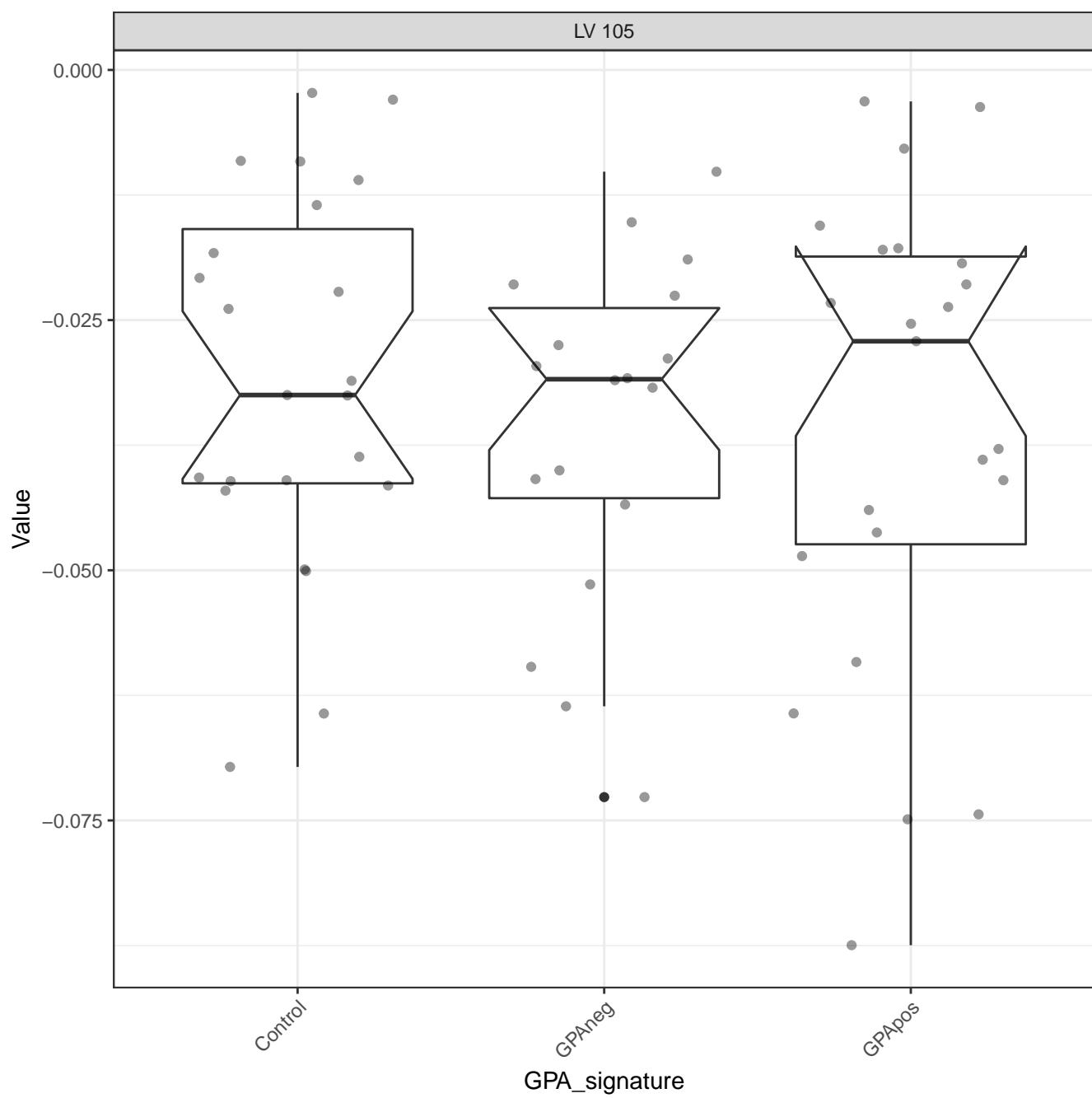
## LV 103



## LV 104

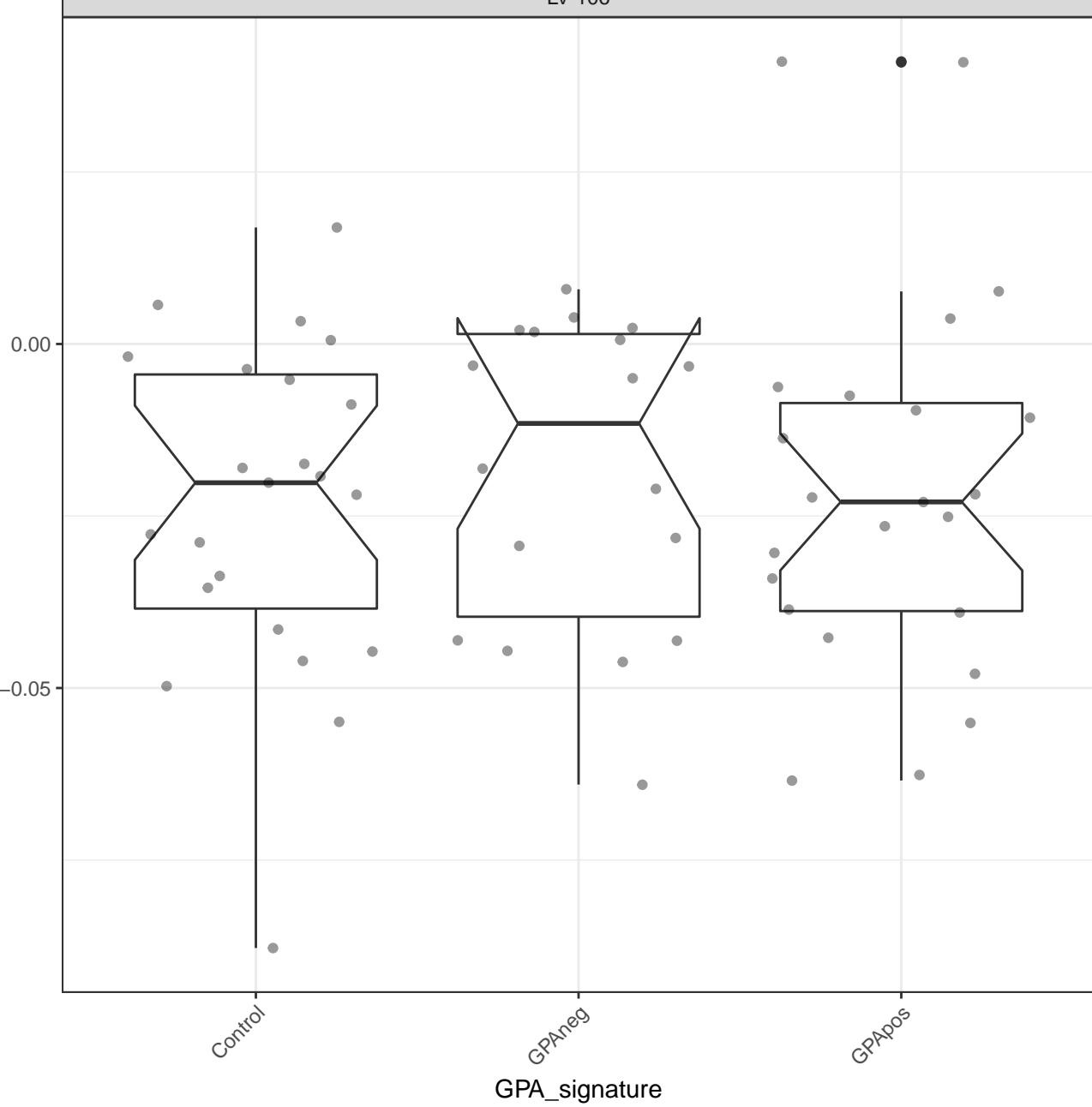


## LV 105

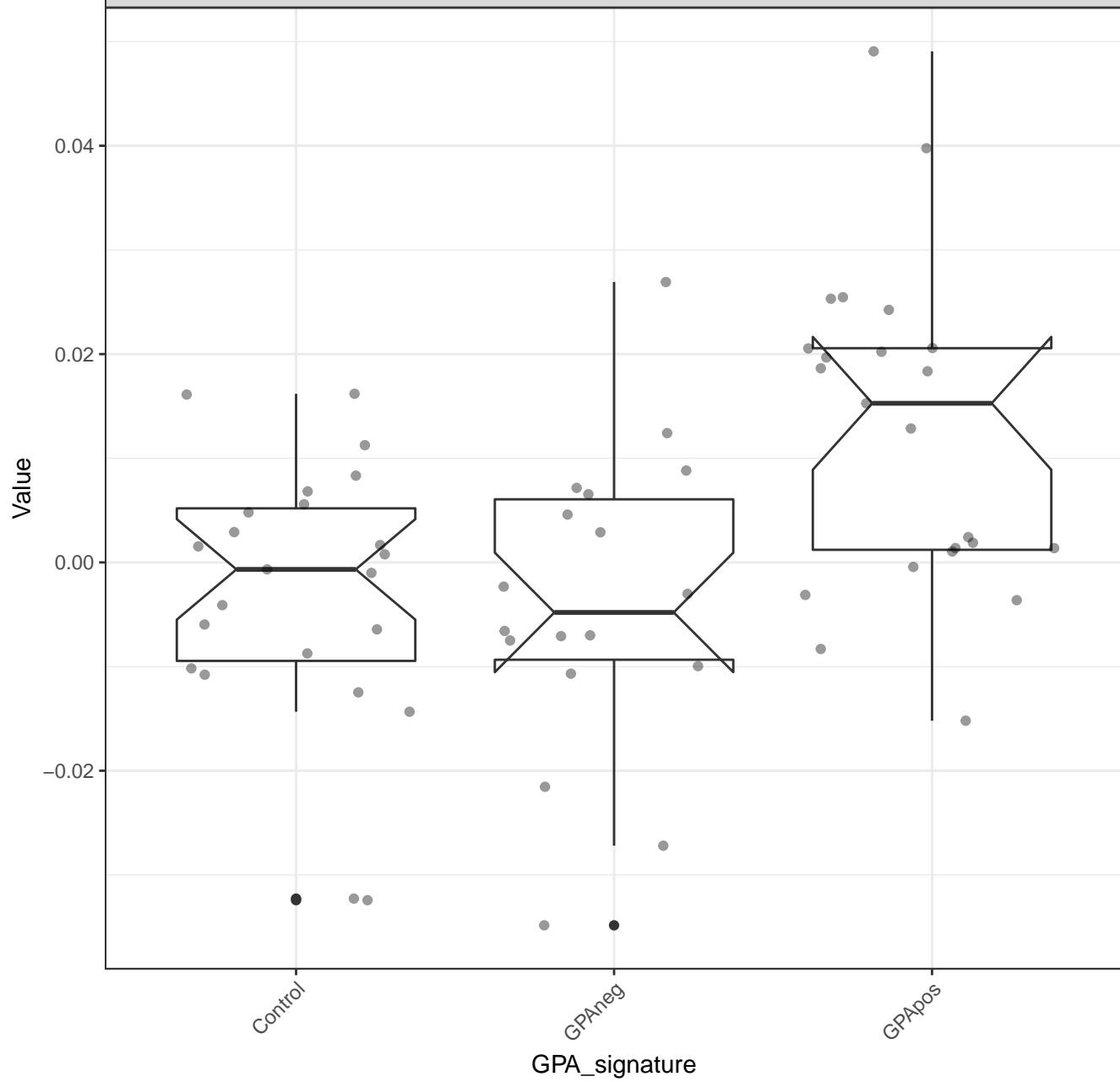


LV 106

Value



## LV 107



## LV 108

Value

0.050

0.025

0.000

-0.025

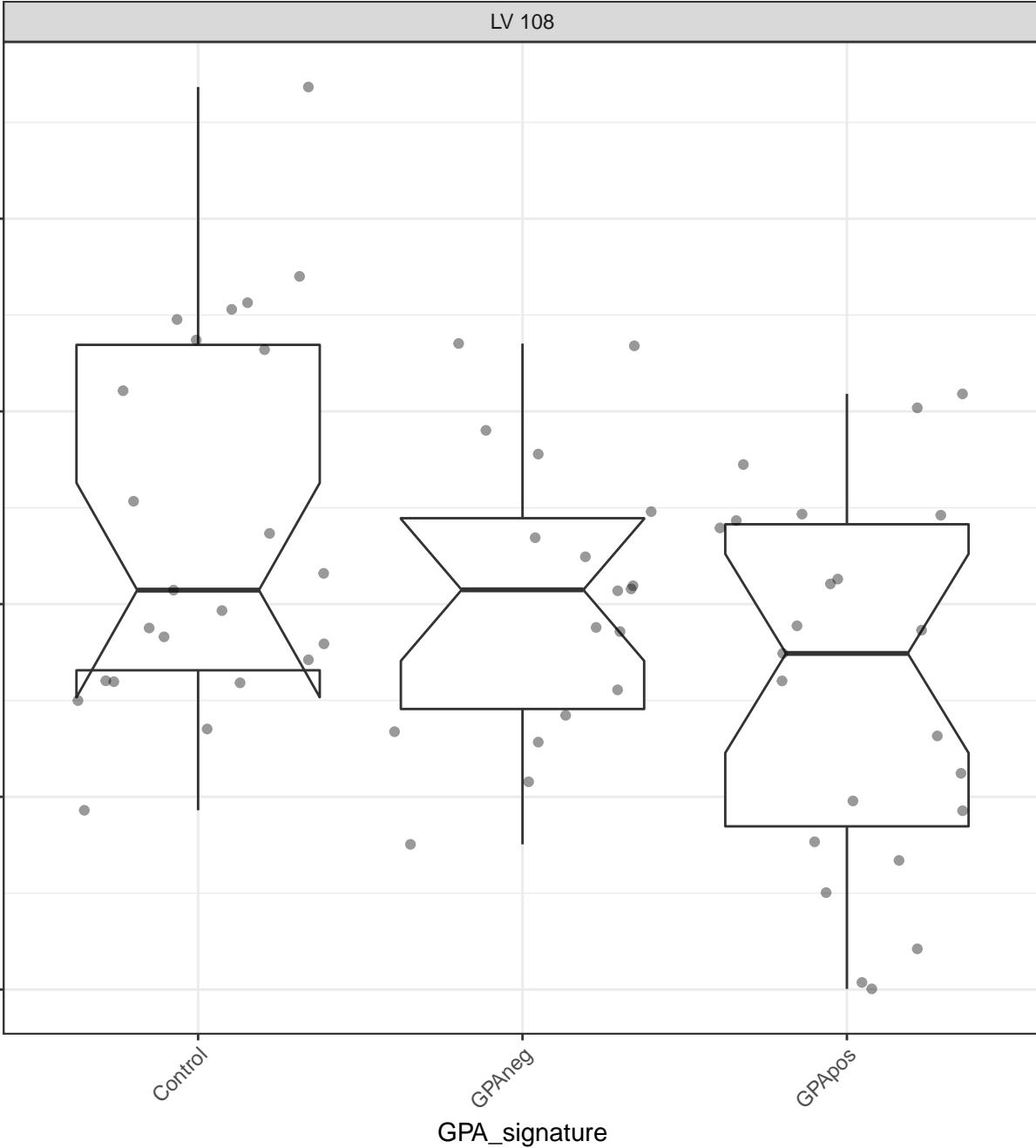
-0.050

Control

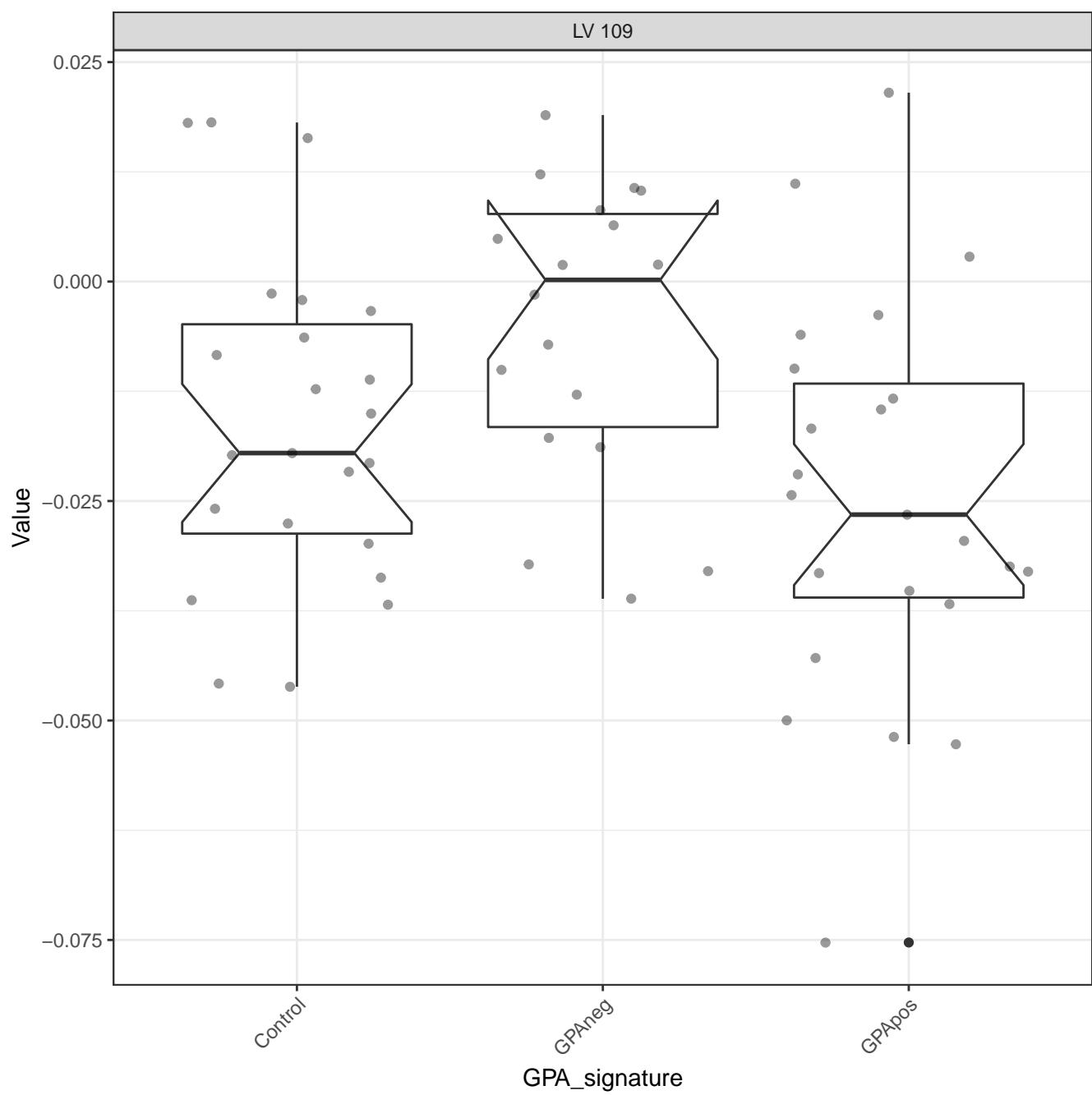
GPAneg

GPAPos

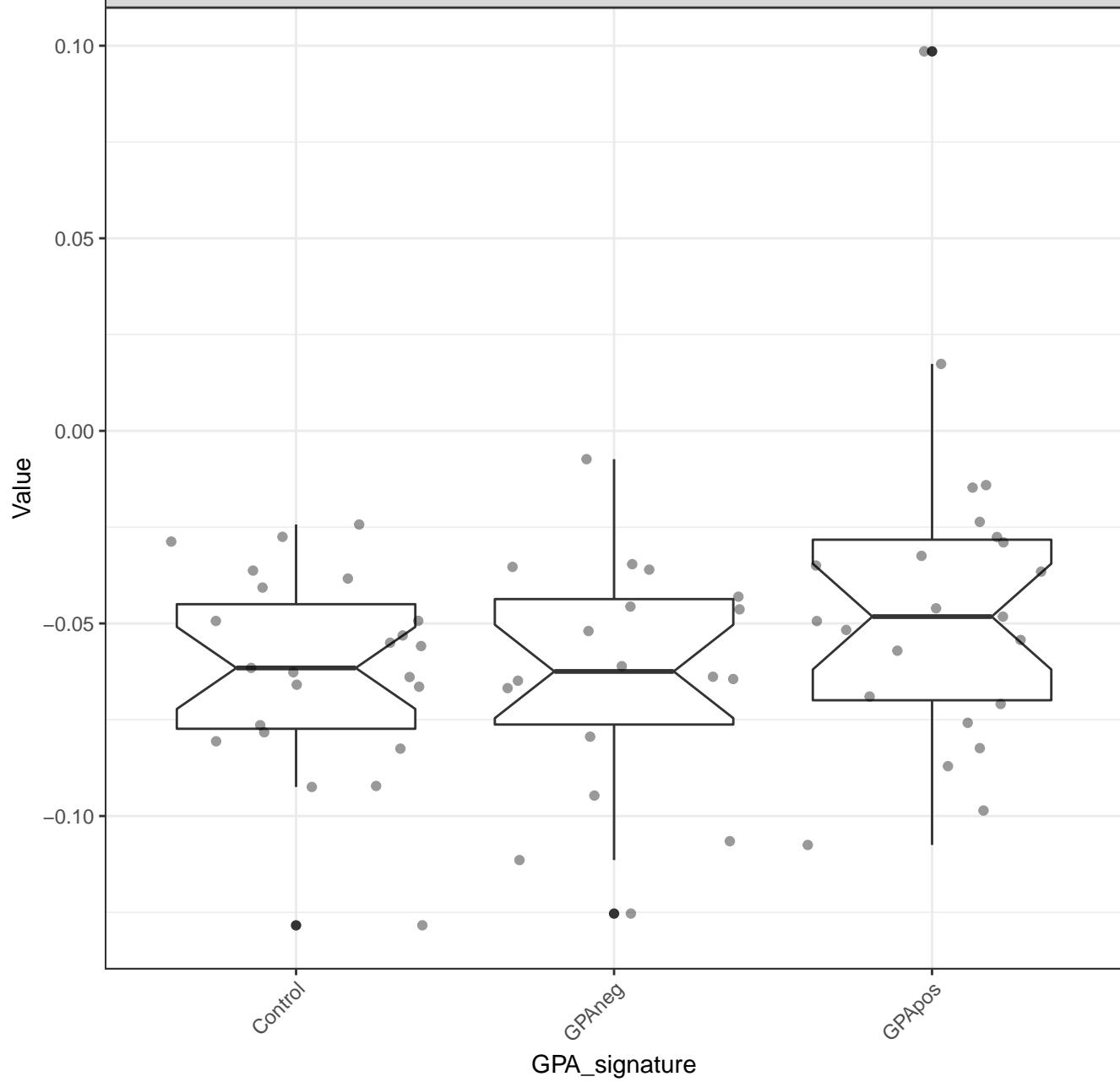
GPA\_signature

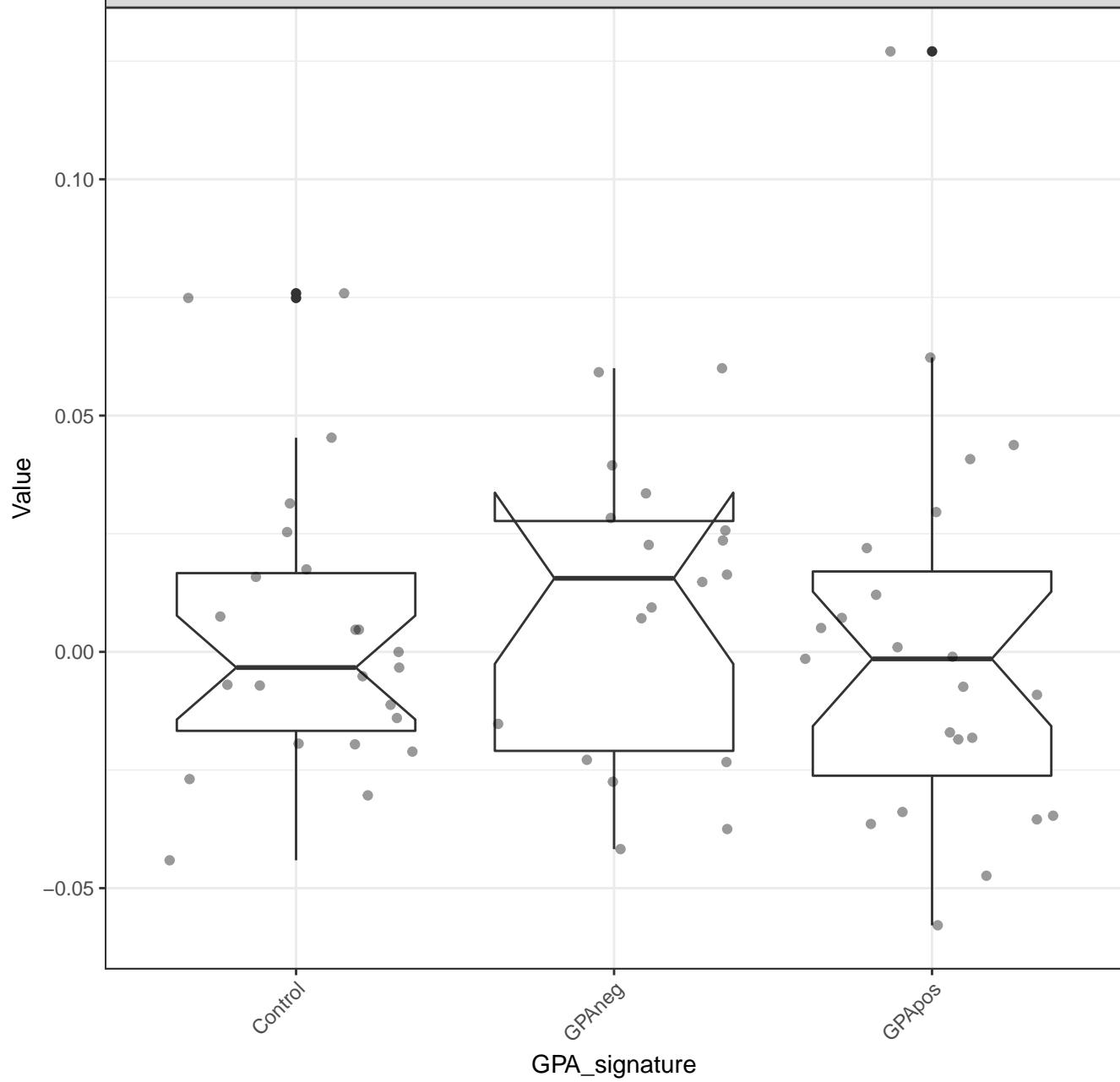


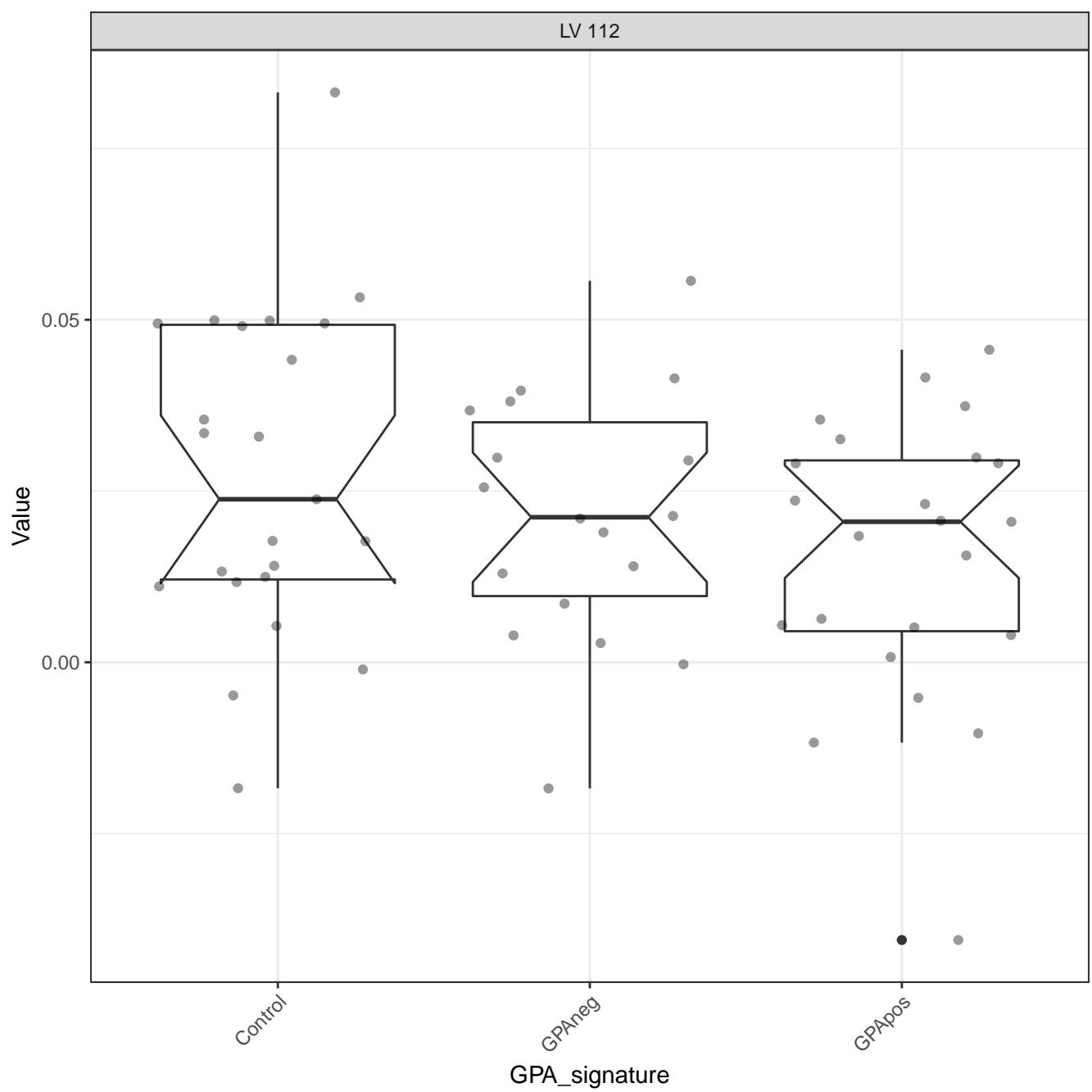
LV 109

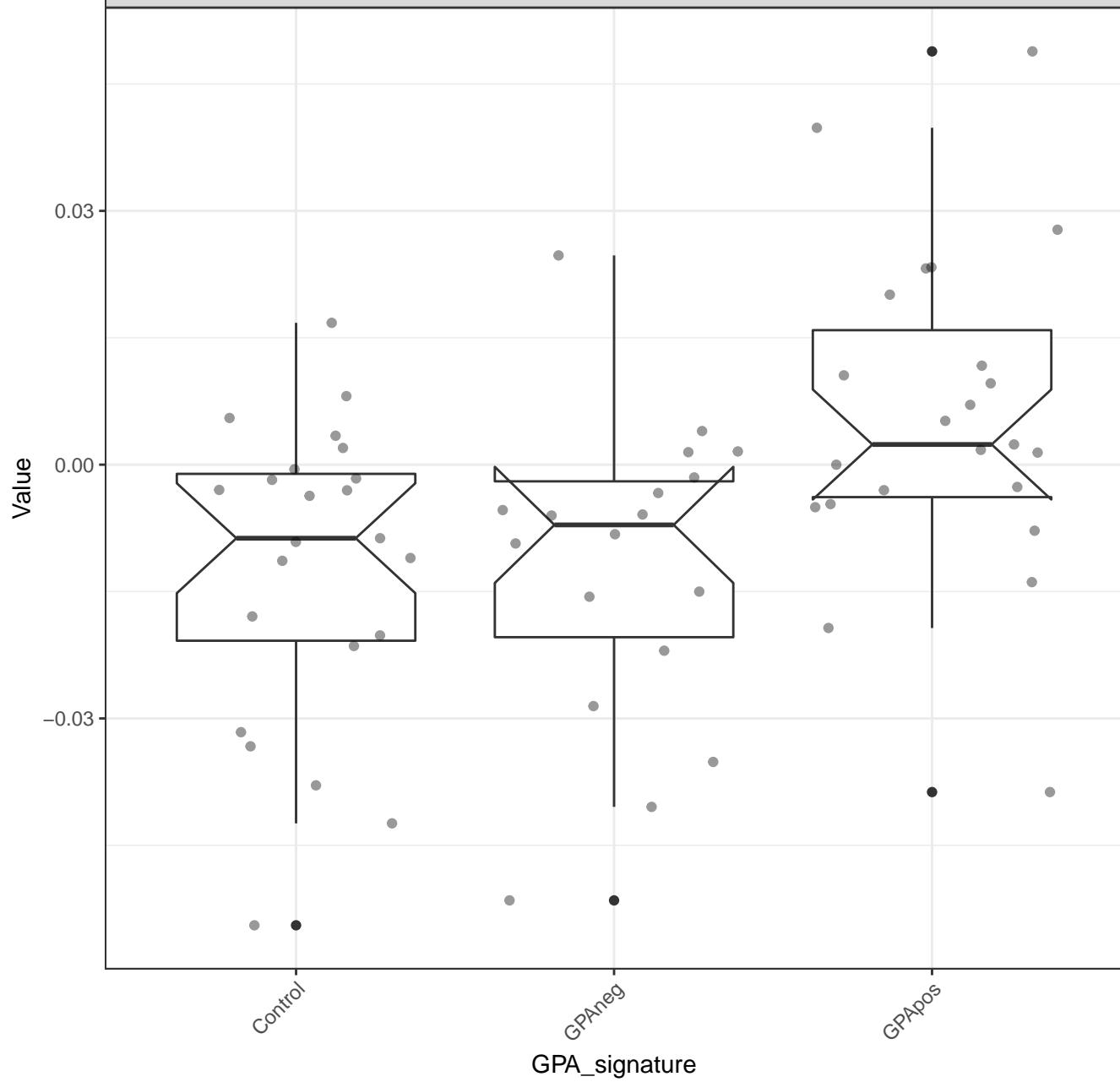


## 110,REACTOME\_MEIOSIS

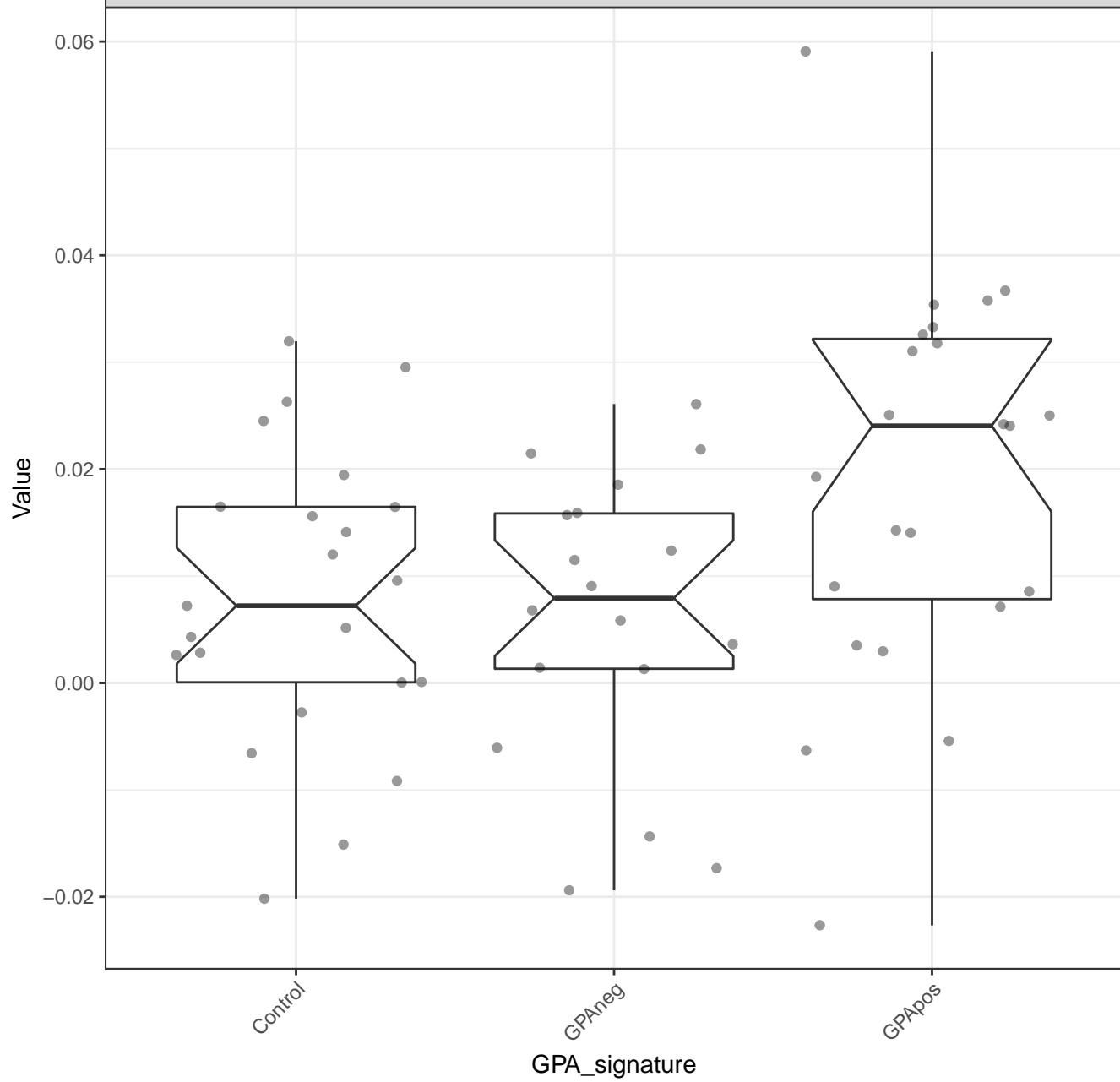


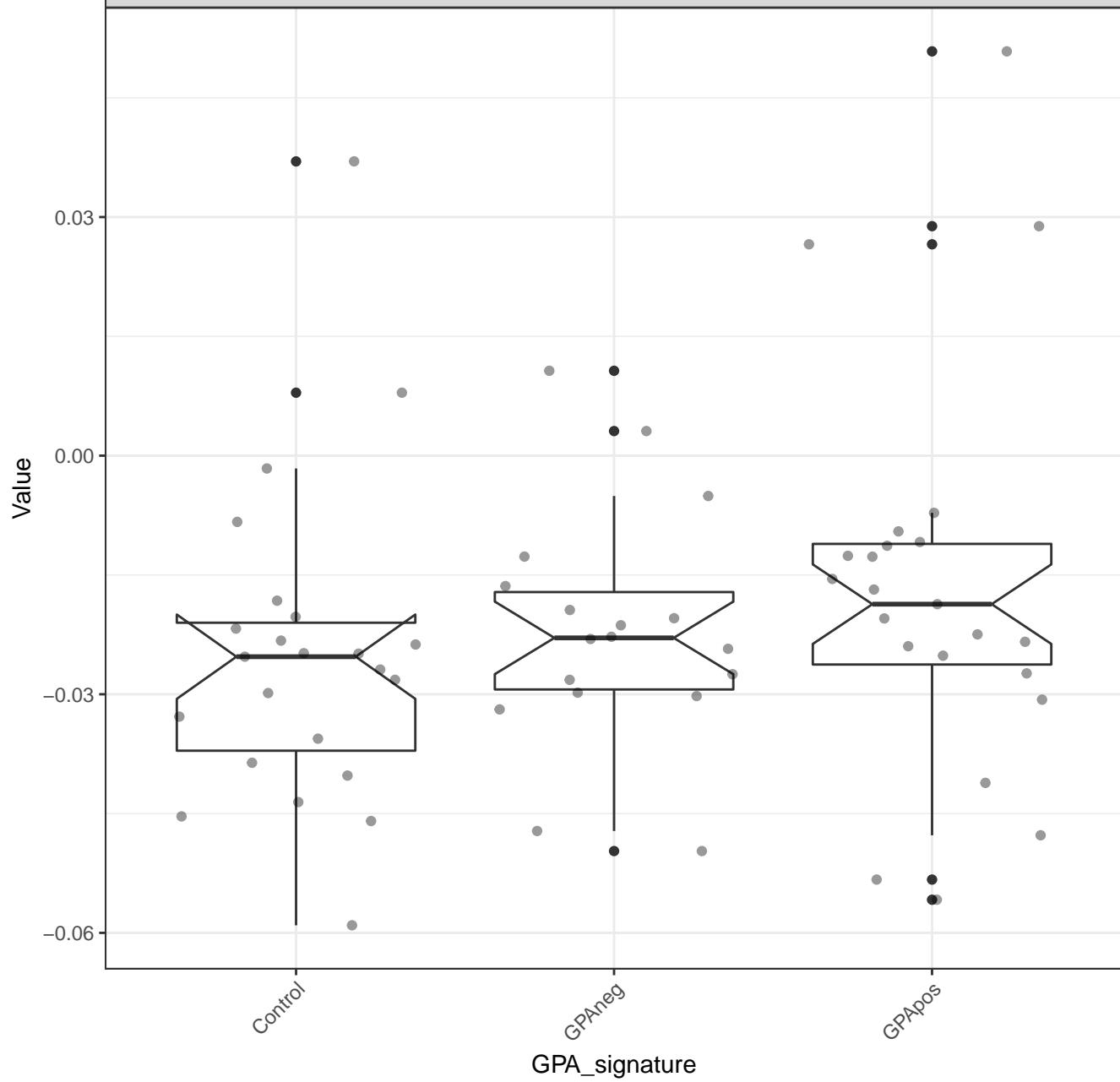






LV 114





# 116,REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING

Value

0.2

0.1

0.0

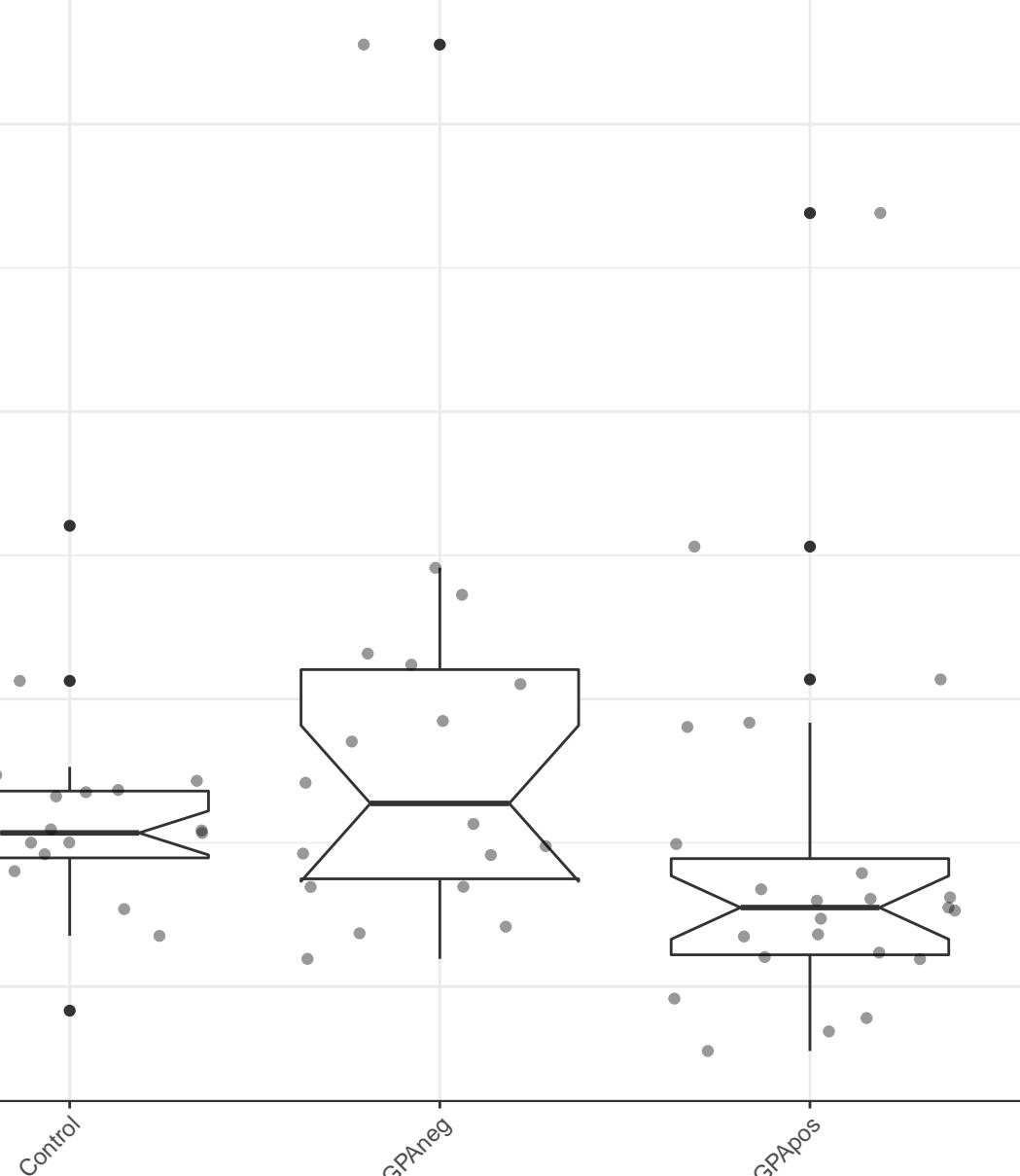
-0.1

Control

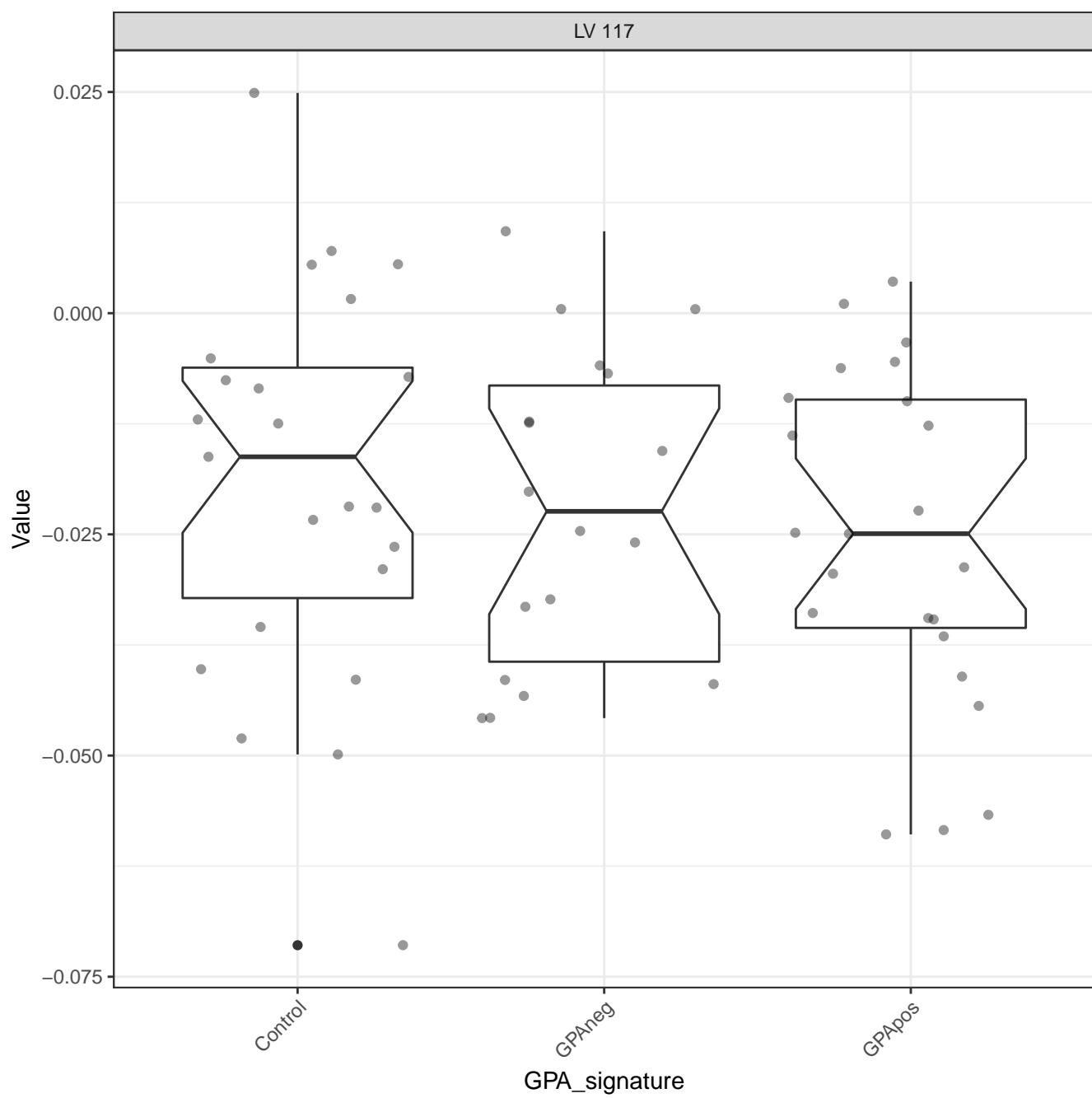
GPA\_signature

GPAneg

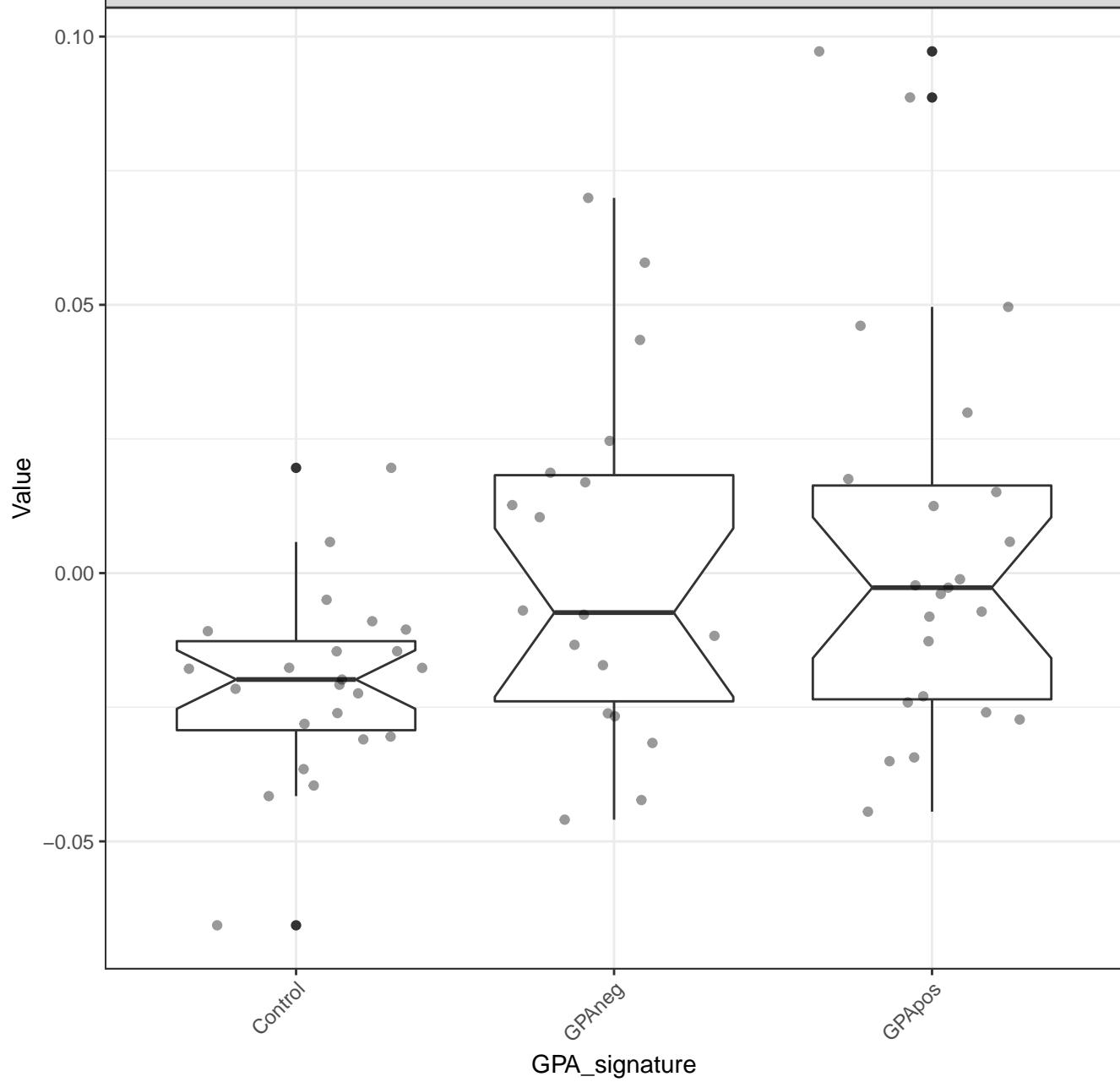
GPApos

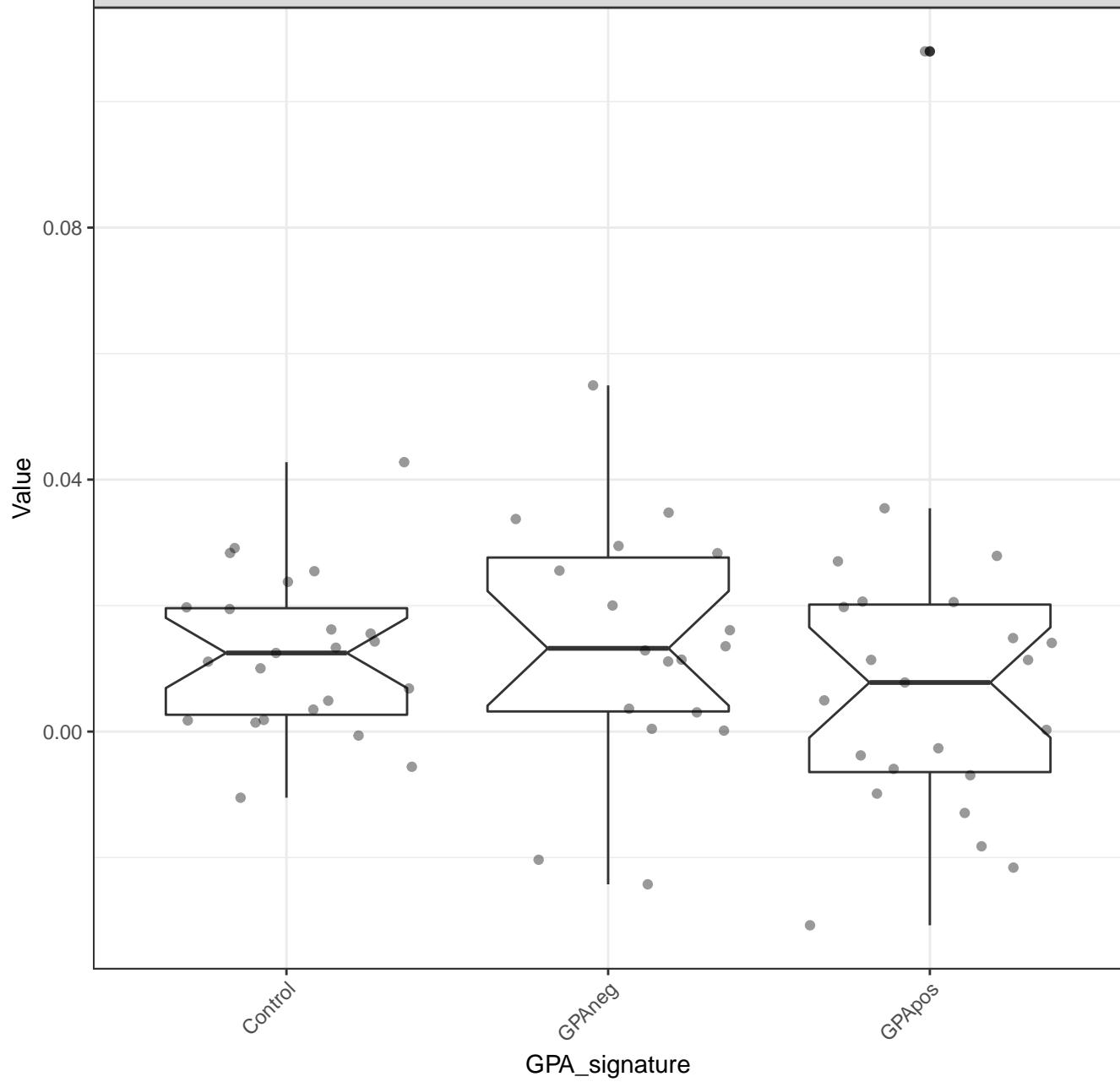


LV 117

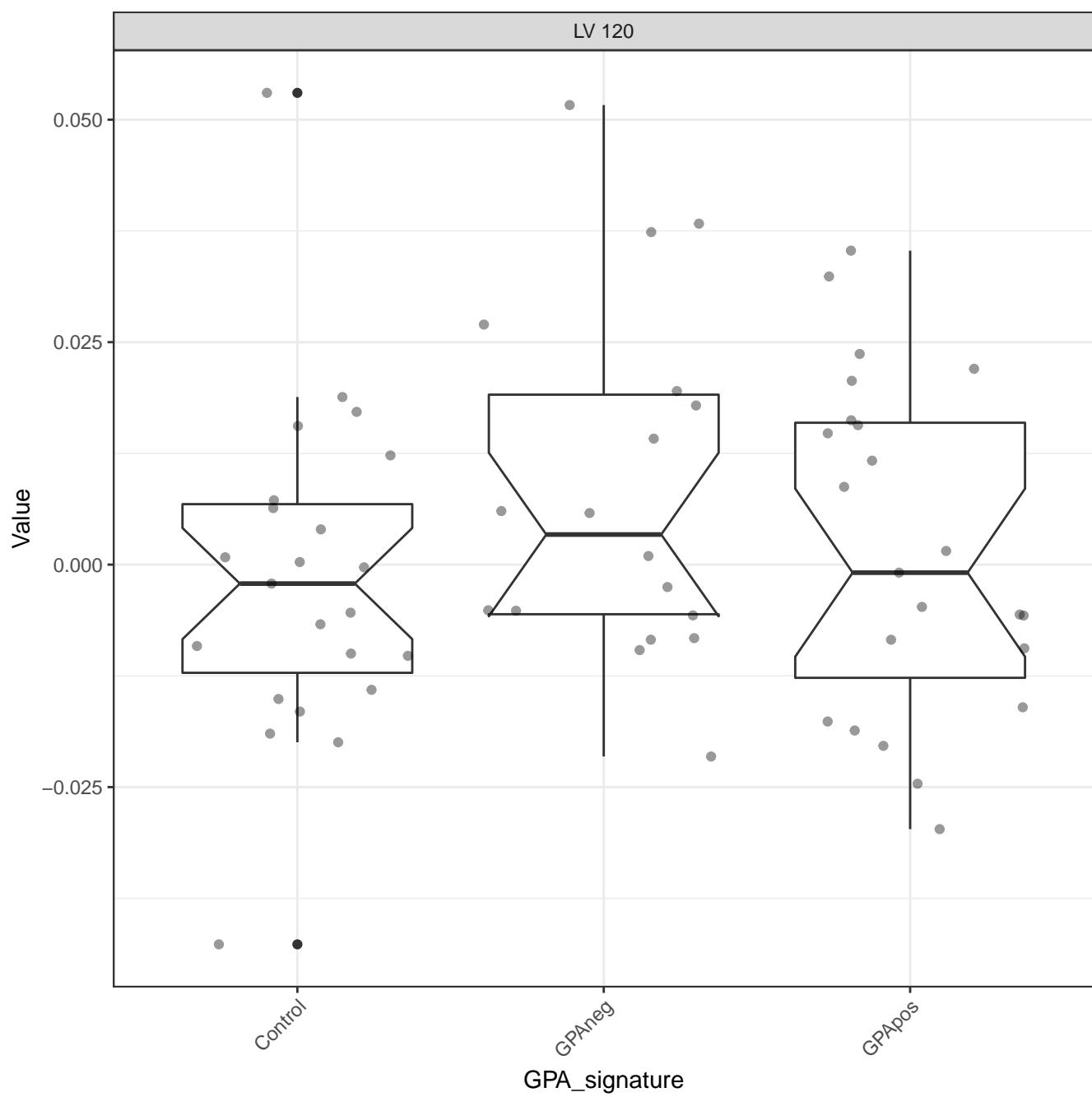


LV 118





## LV 120



## LV 121

Value

0.00

-0.05

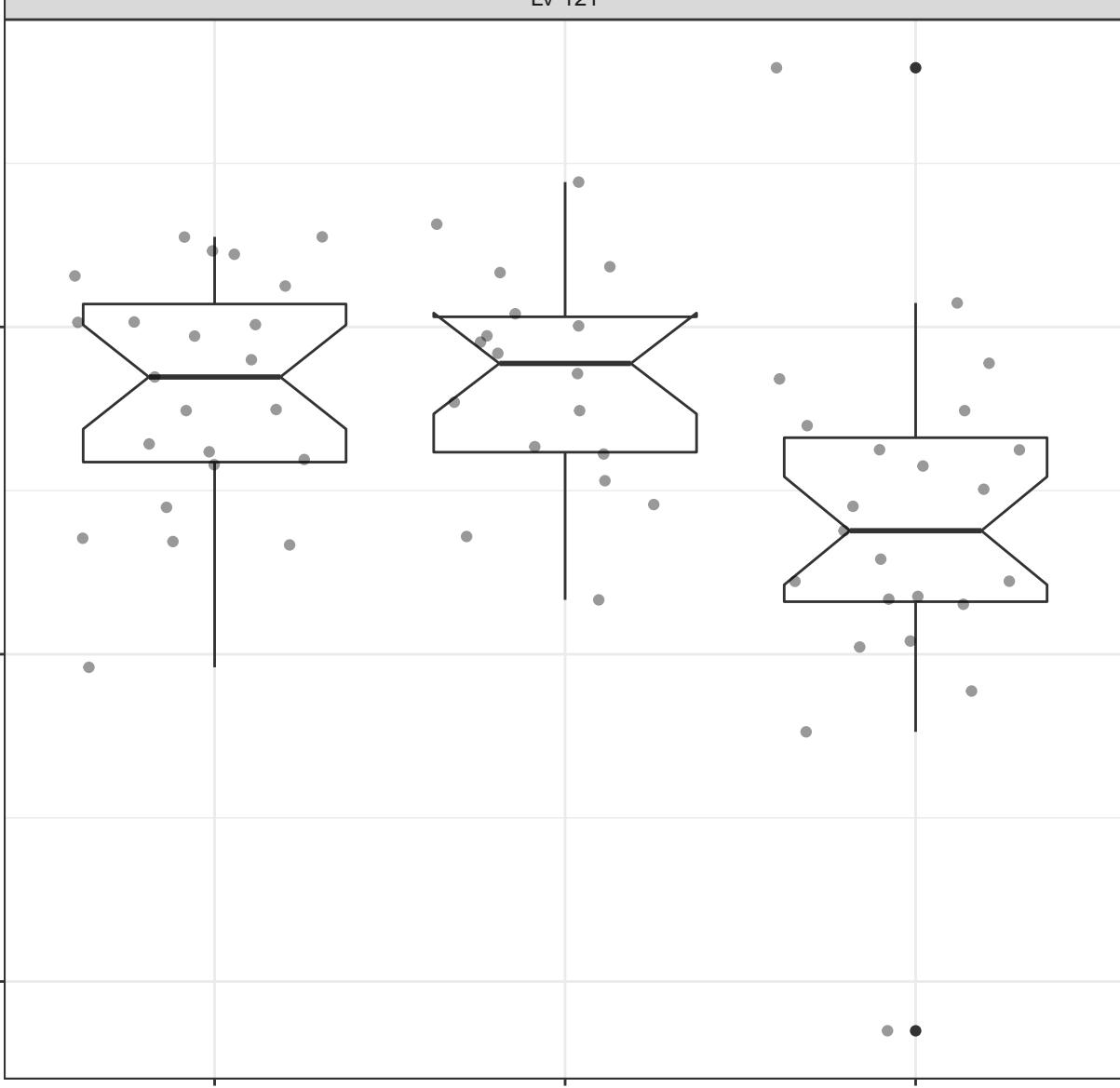
-0.10

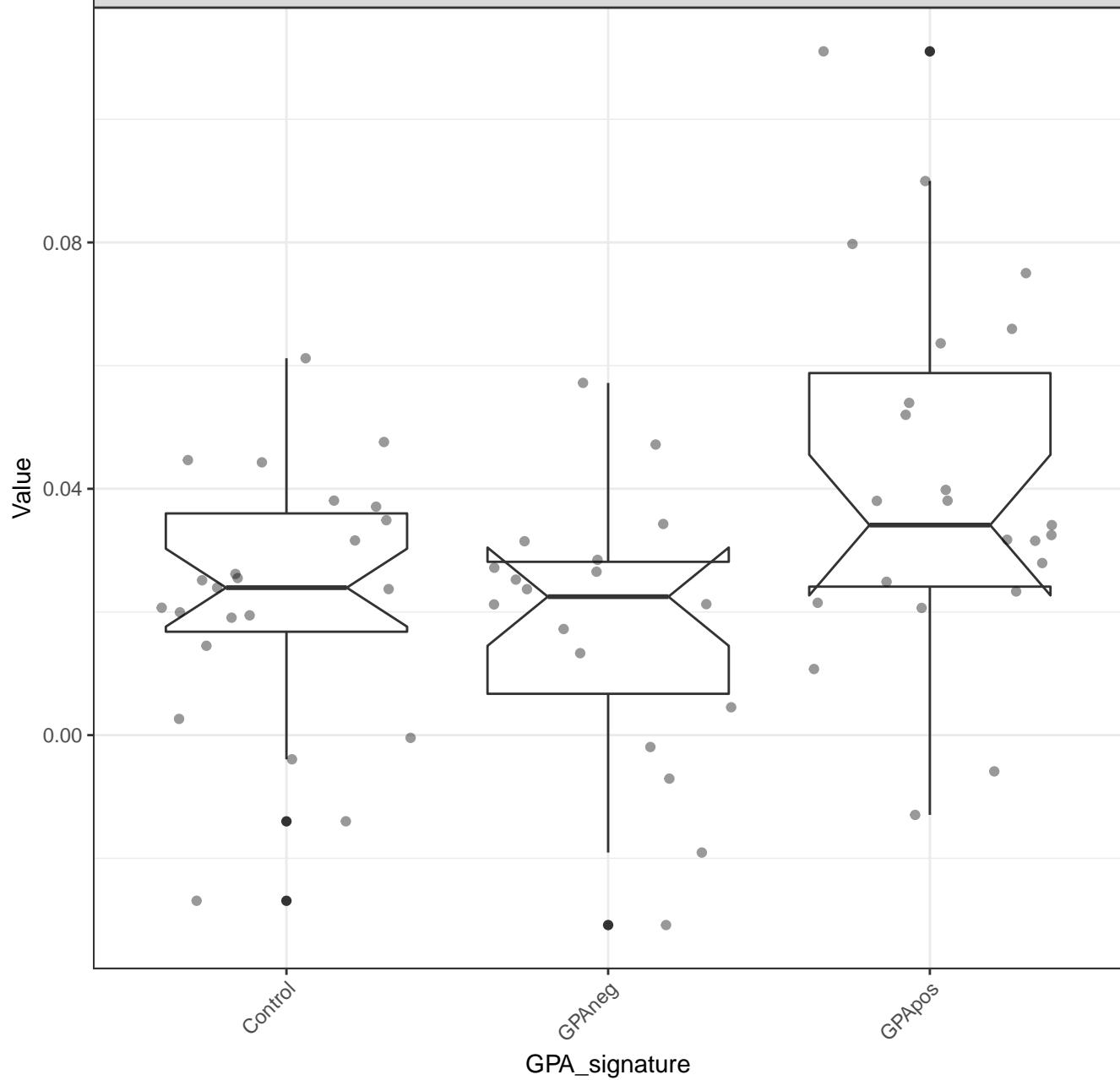
Control

GPAneg

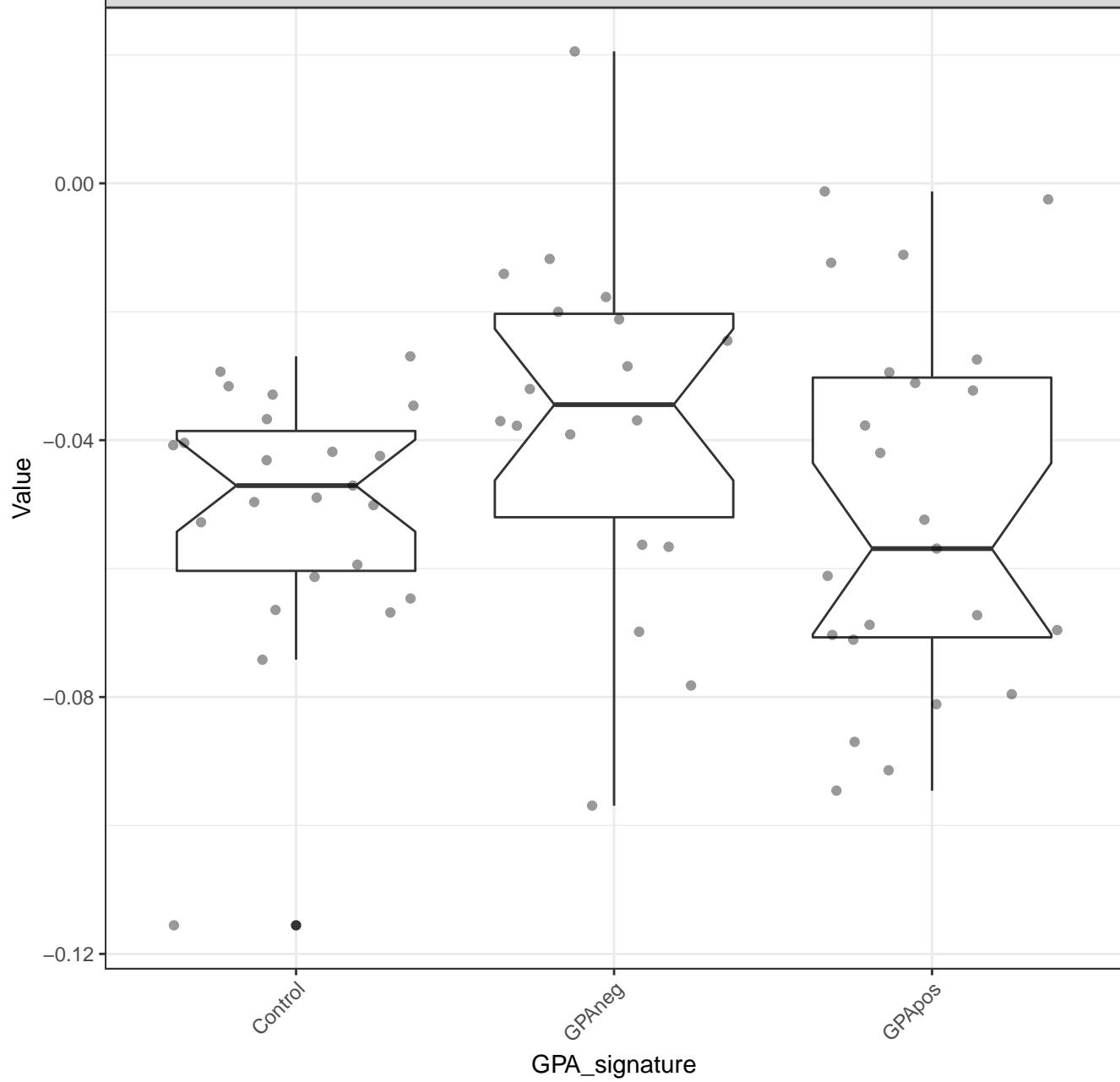
GPApos

GPA\_signature





### 123,SVM Dendritic cells activated



## 24,REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_REPERTOIRE

Value

0.00

-0.02

-0.04

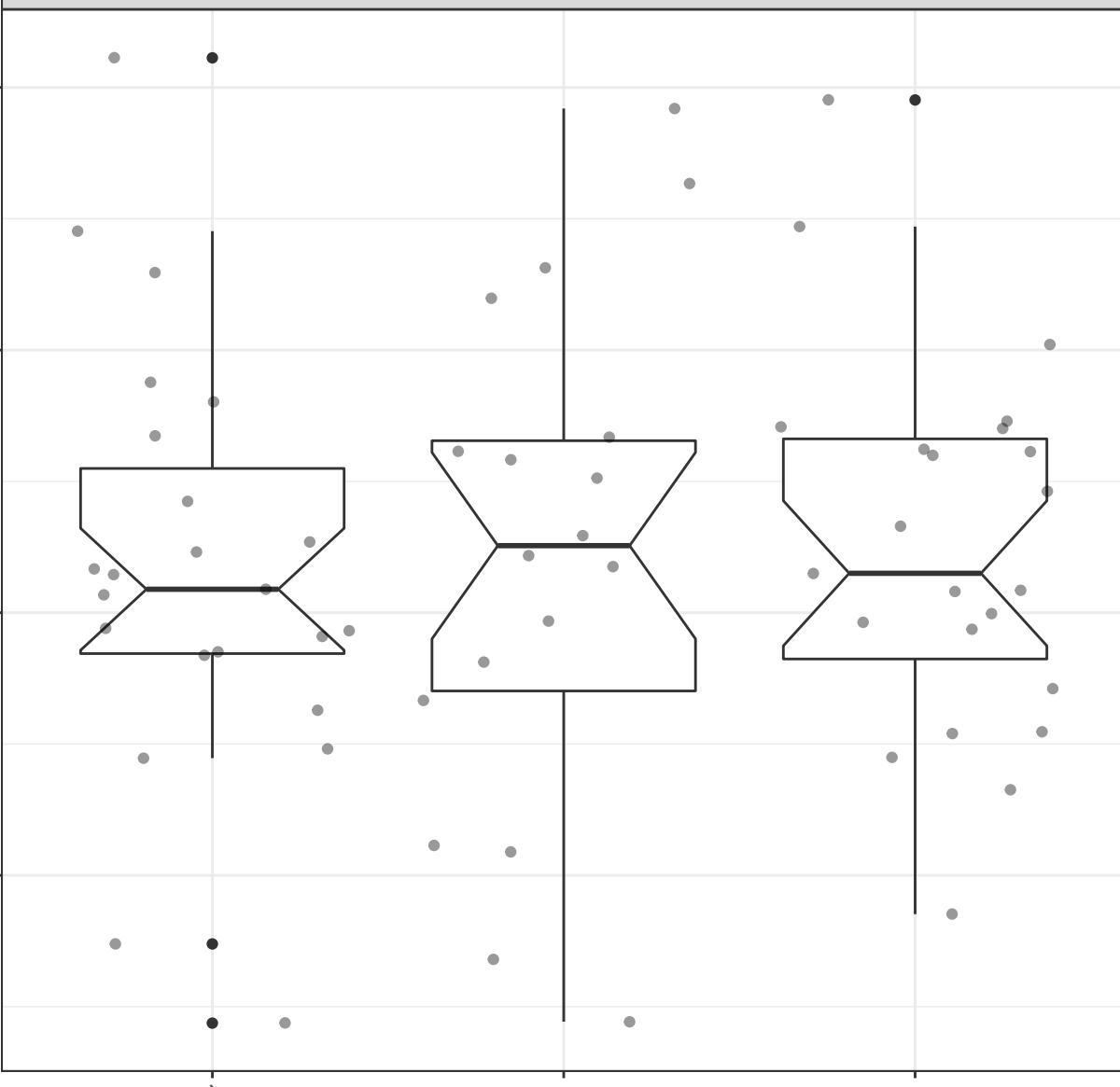
-0.06

Control

GPA\_signature

GPAneg

GPAPos



LV 125

Value

0.04

0.00

-0.04

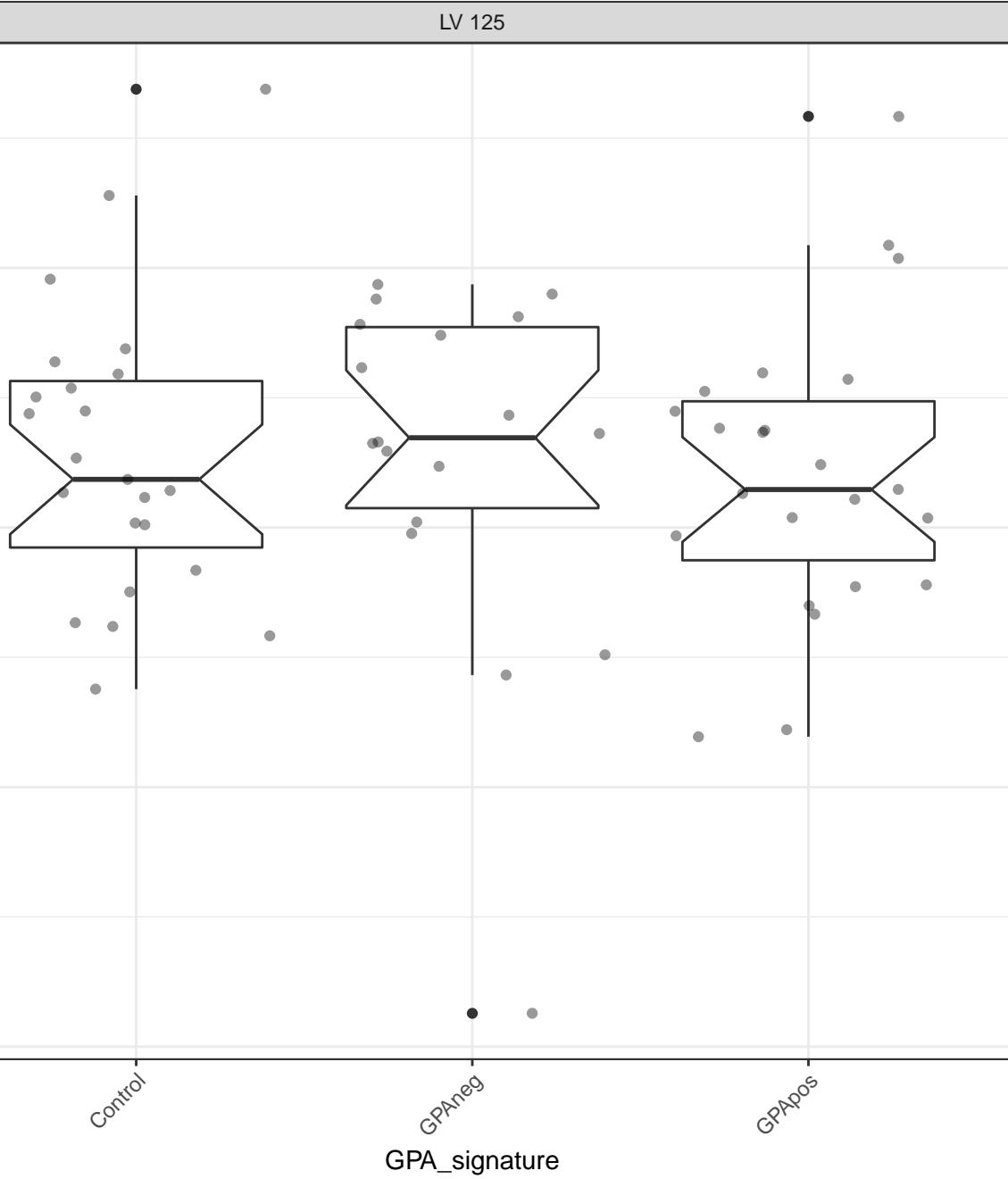
-0.08

Control

GPA\_signature

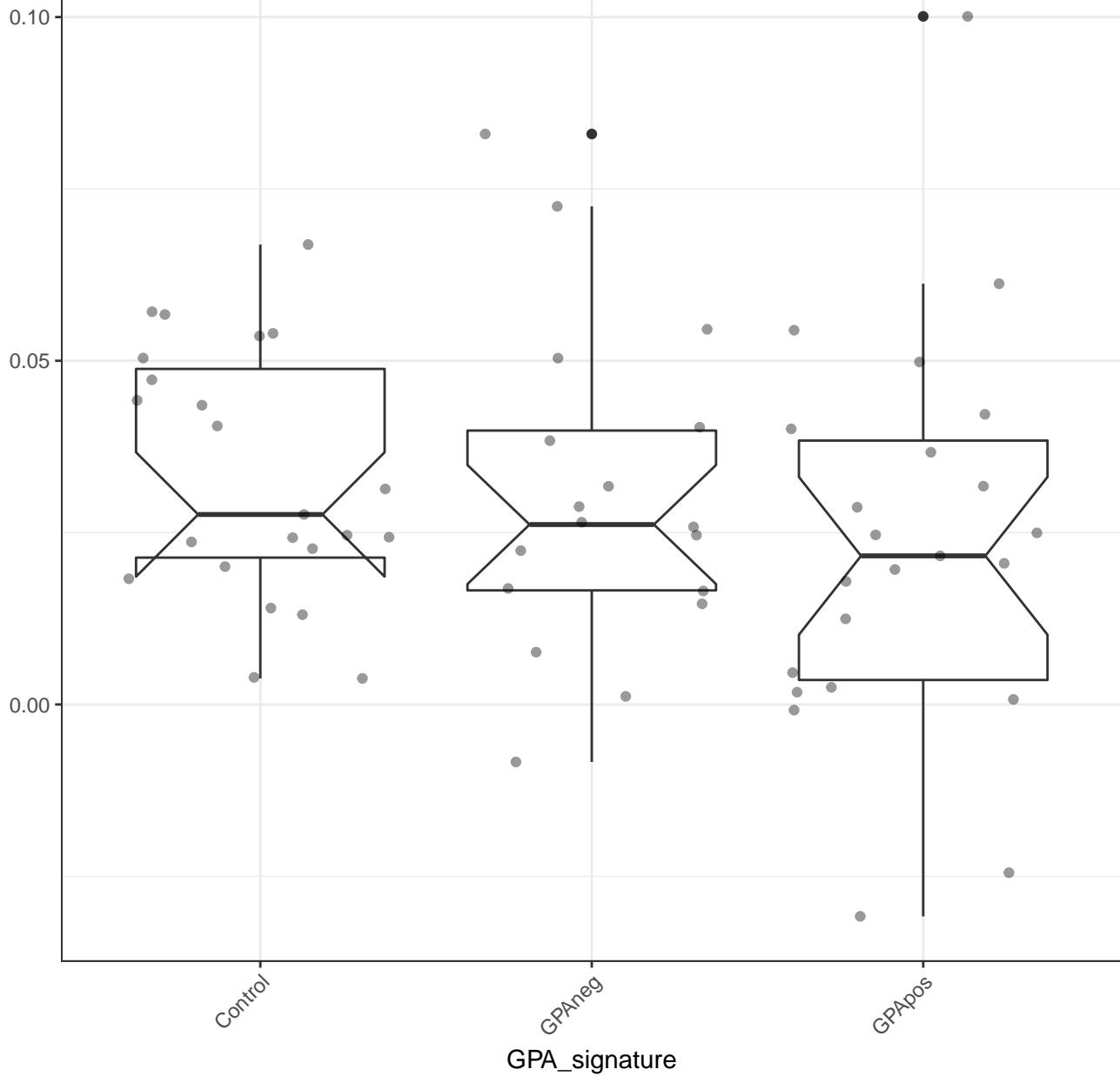
GPAneg

GPApos

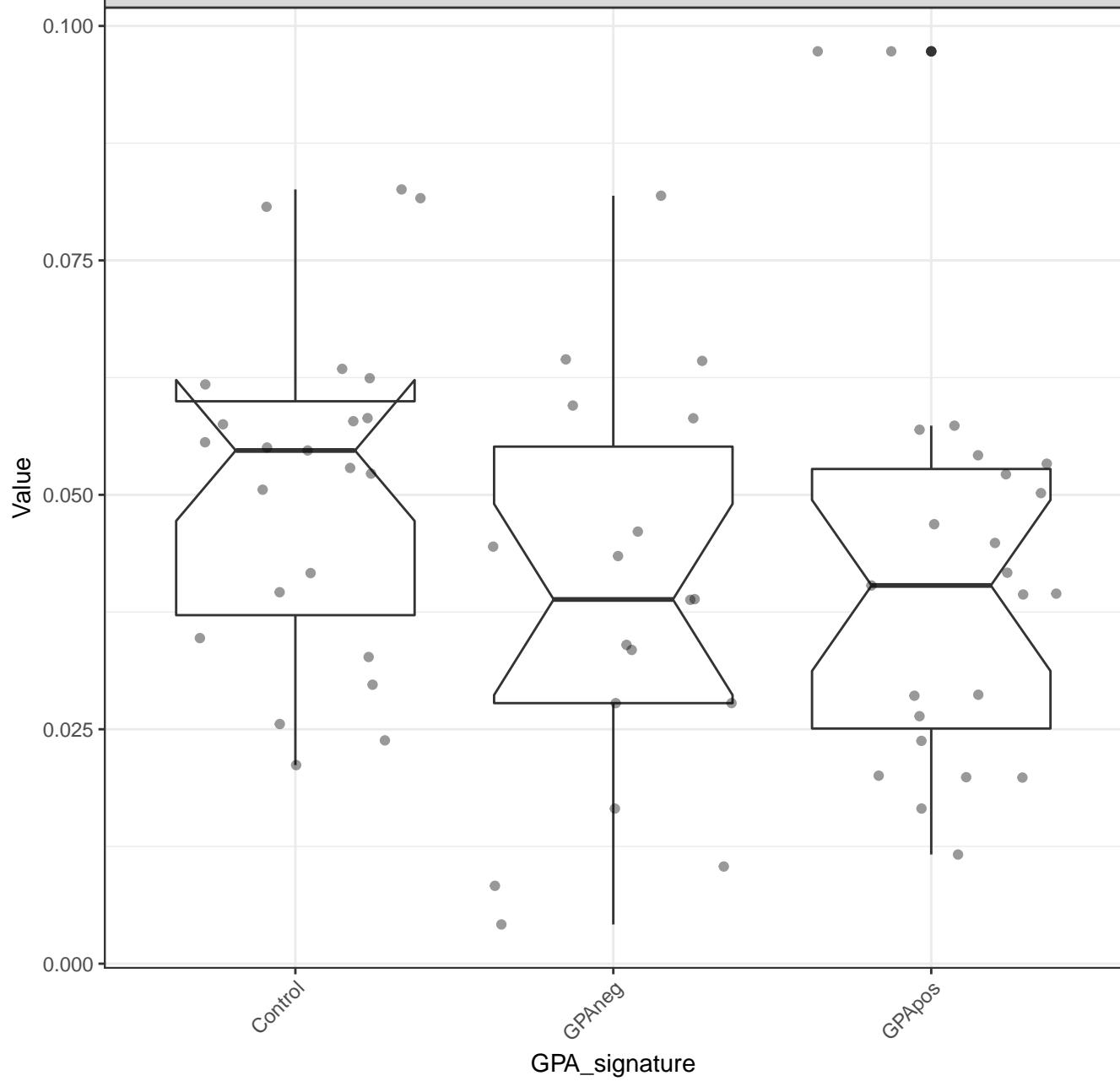


LV 126

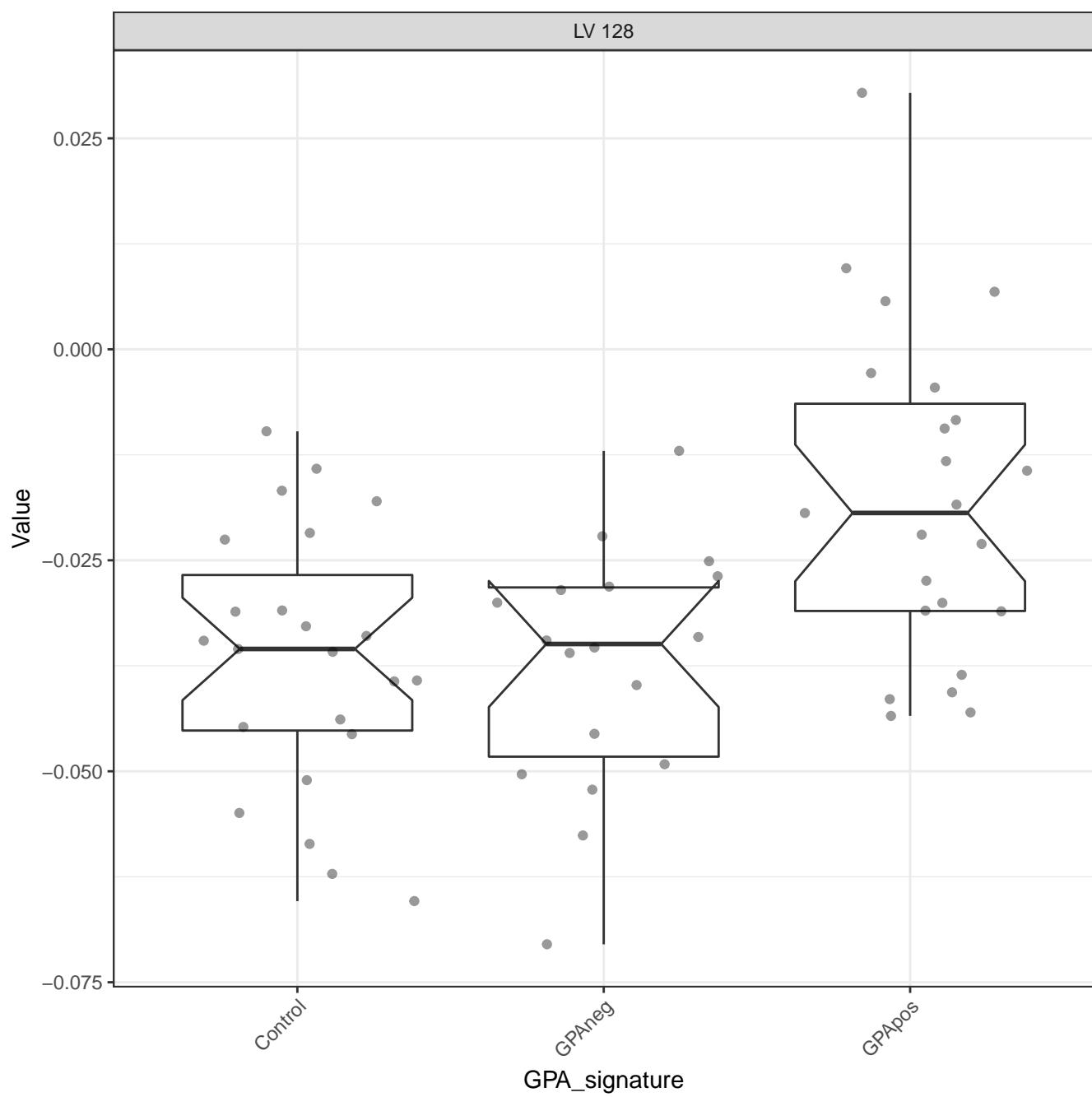
Value



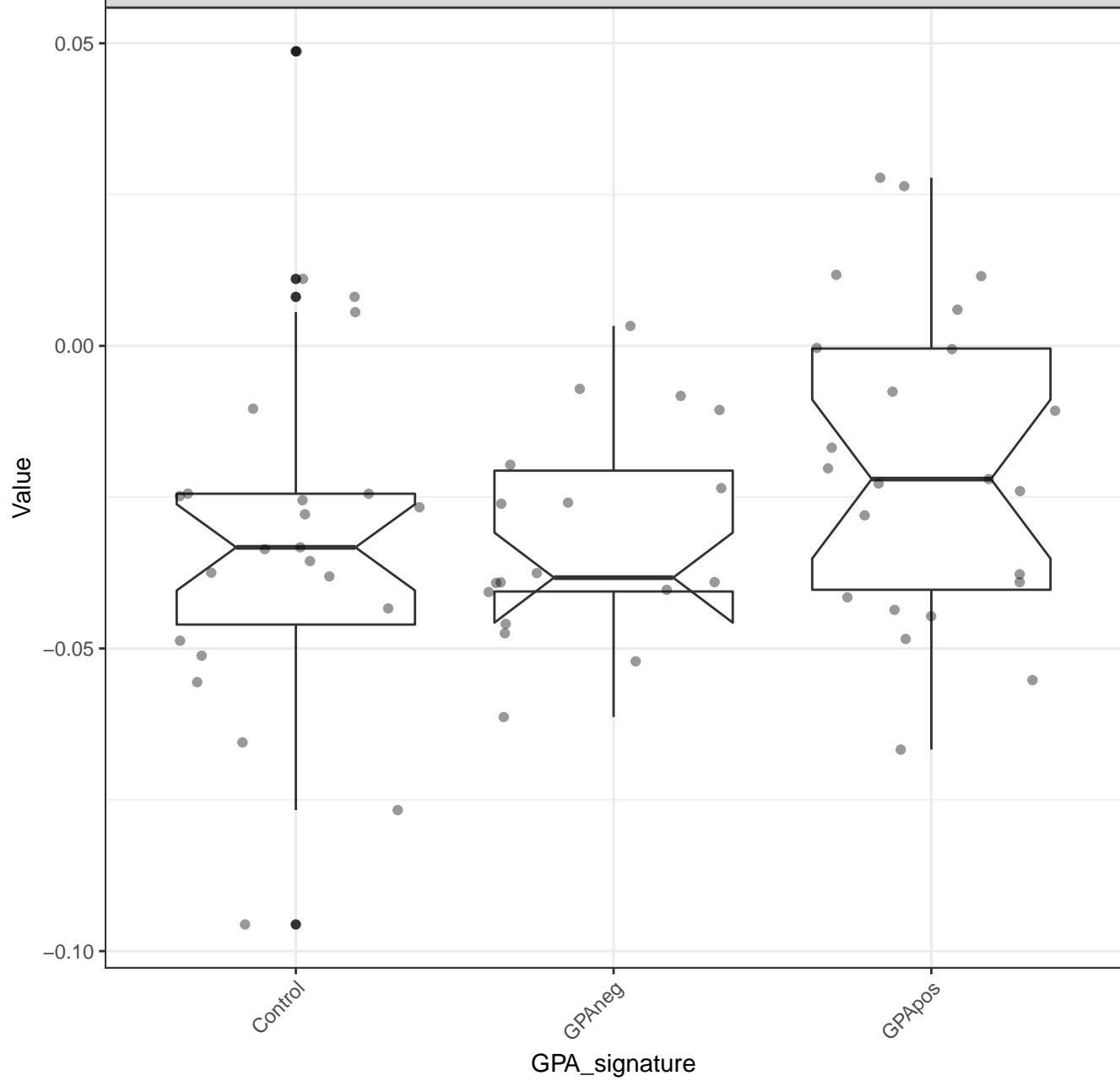
LV 127



## LV 128



LV 129



LV 130

Value

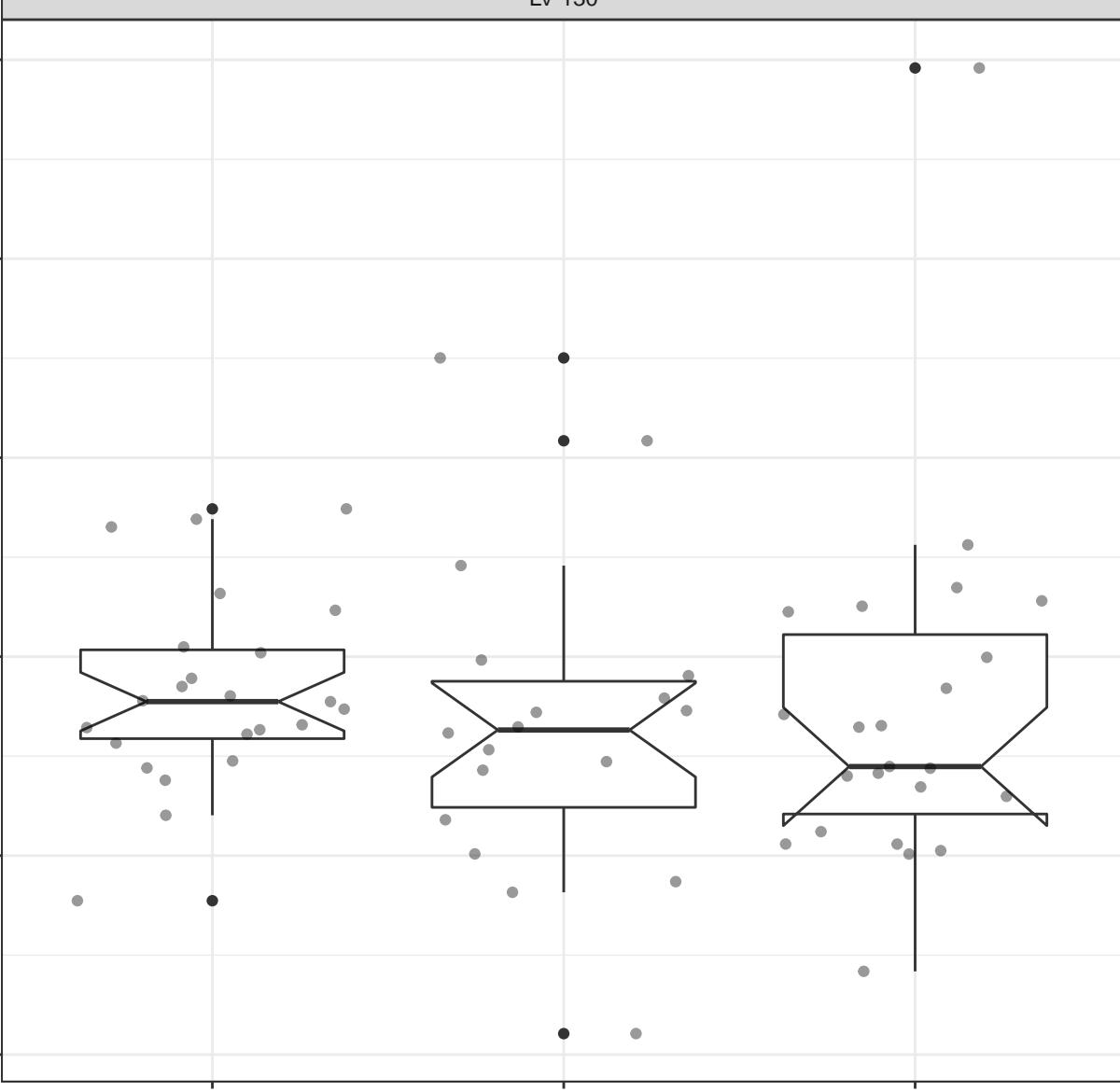
0.06  
0.04  
0.02  
0.00  
-0.02  
-0.04

Control

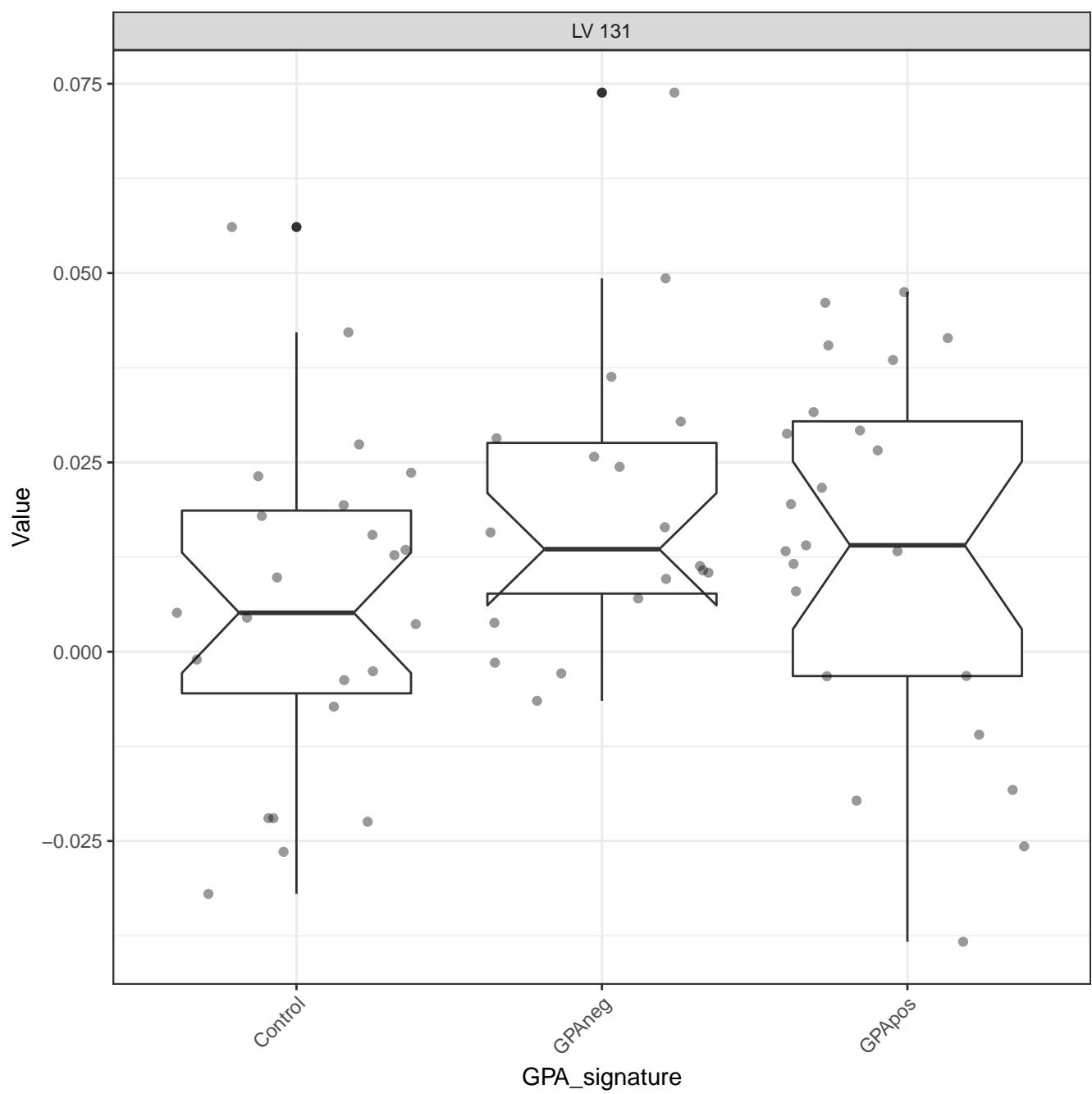
GPAneg

GPApos

GPA\_signature



## LV 131



## LV 132

Value

0.05

0.00

0.00

-0.05

Control

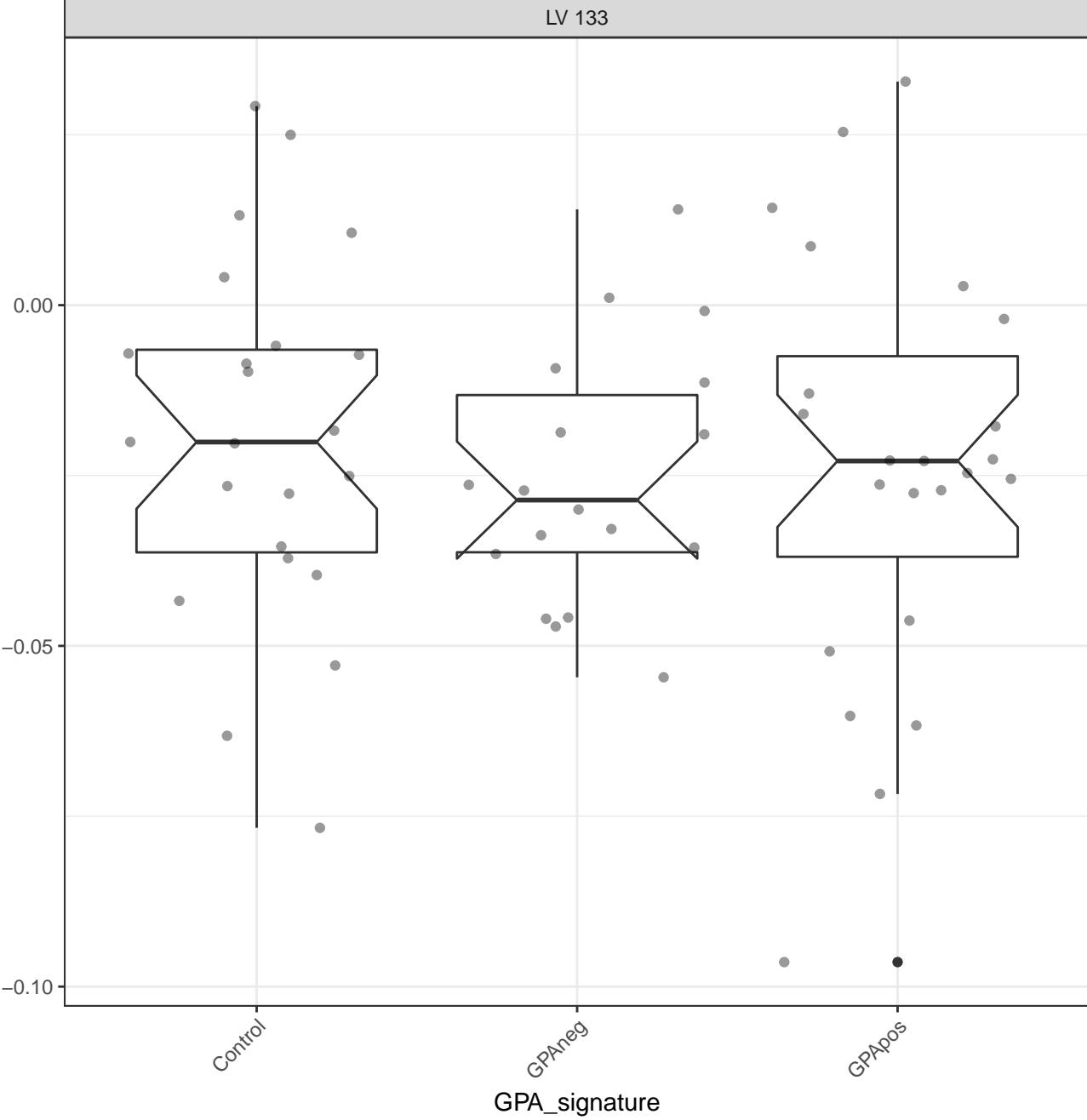
GPAneg

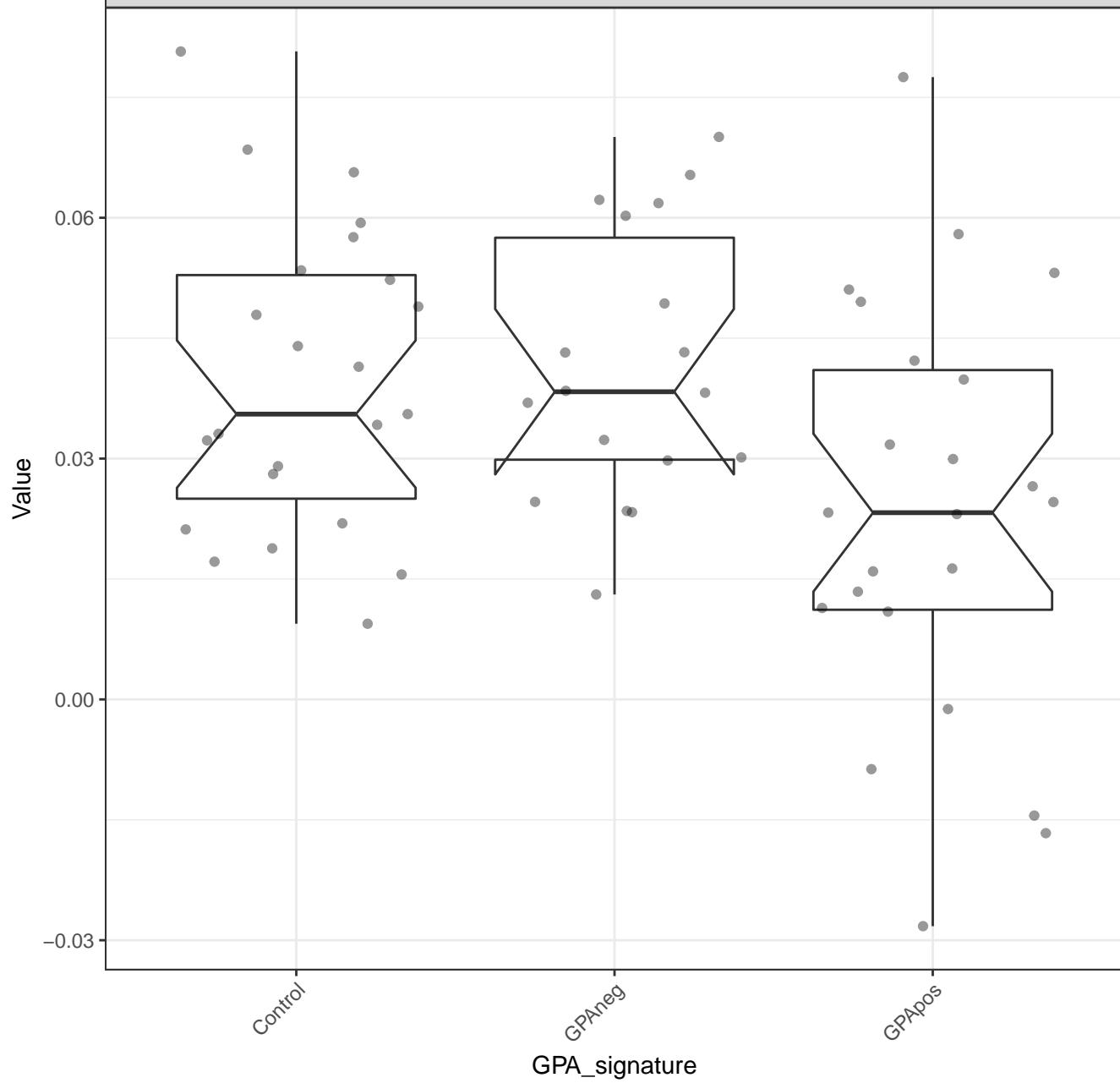
GPAPos

GPA\_signature

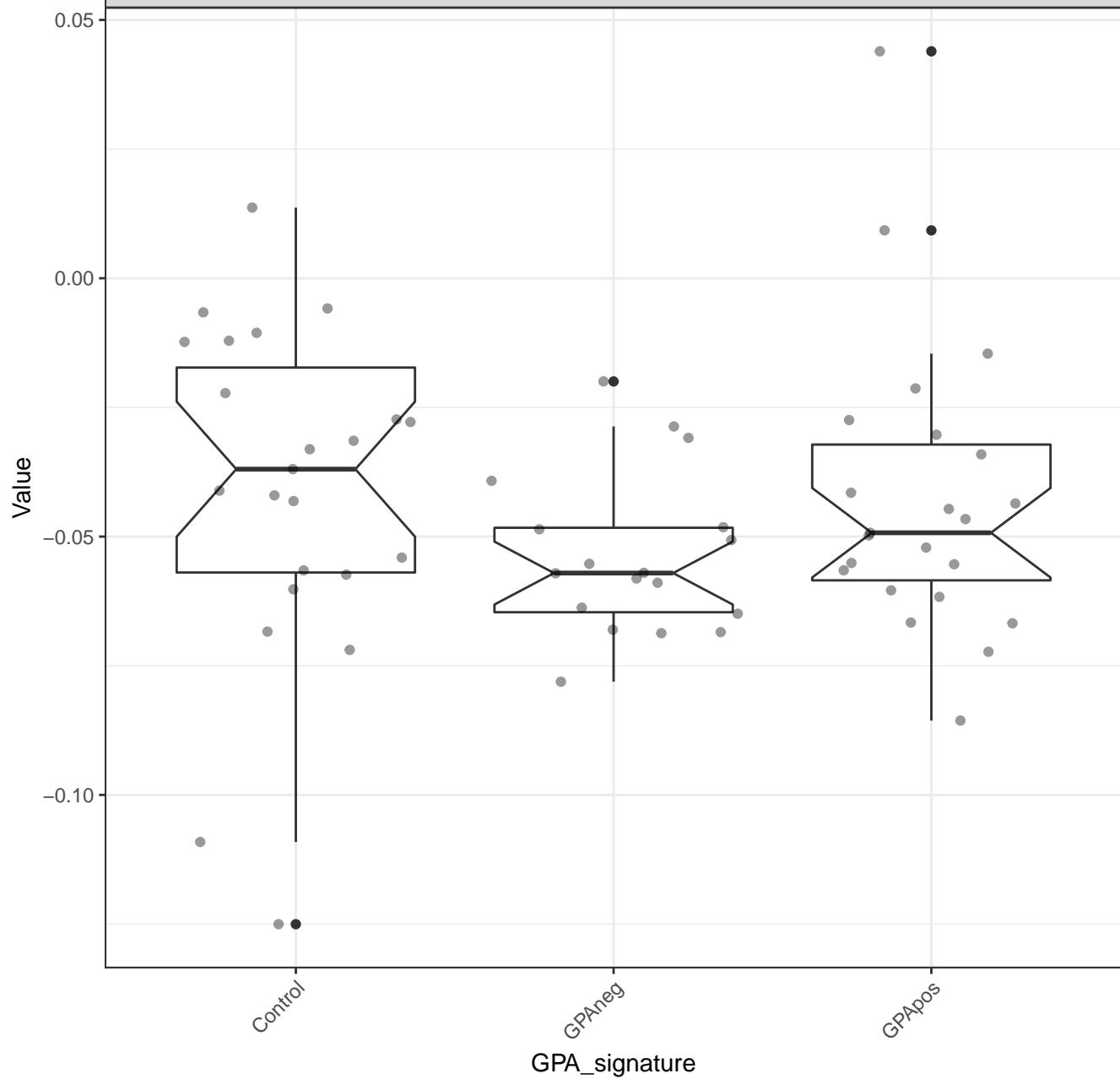
## LV 133

Value

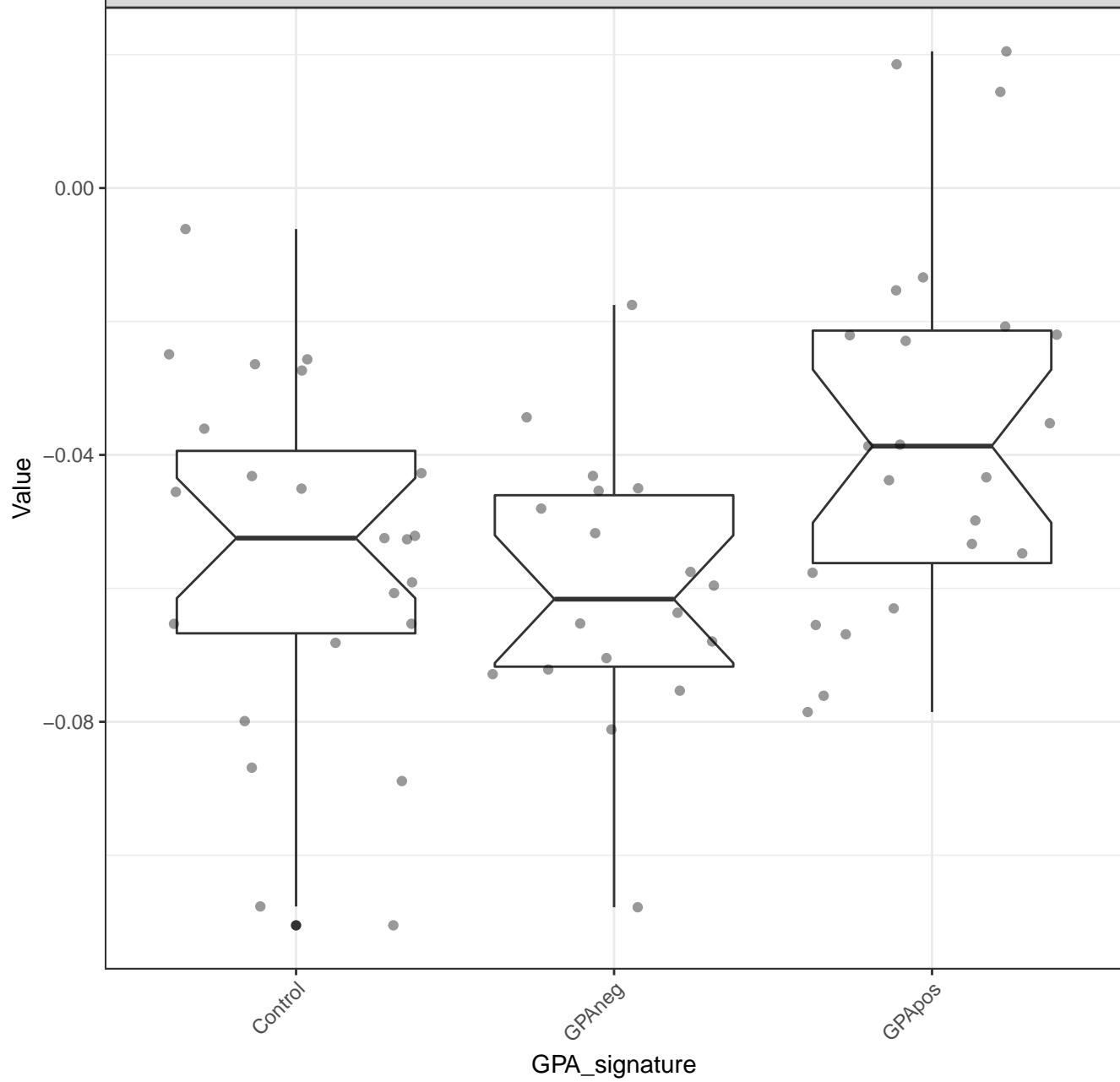




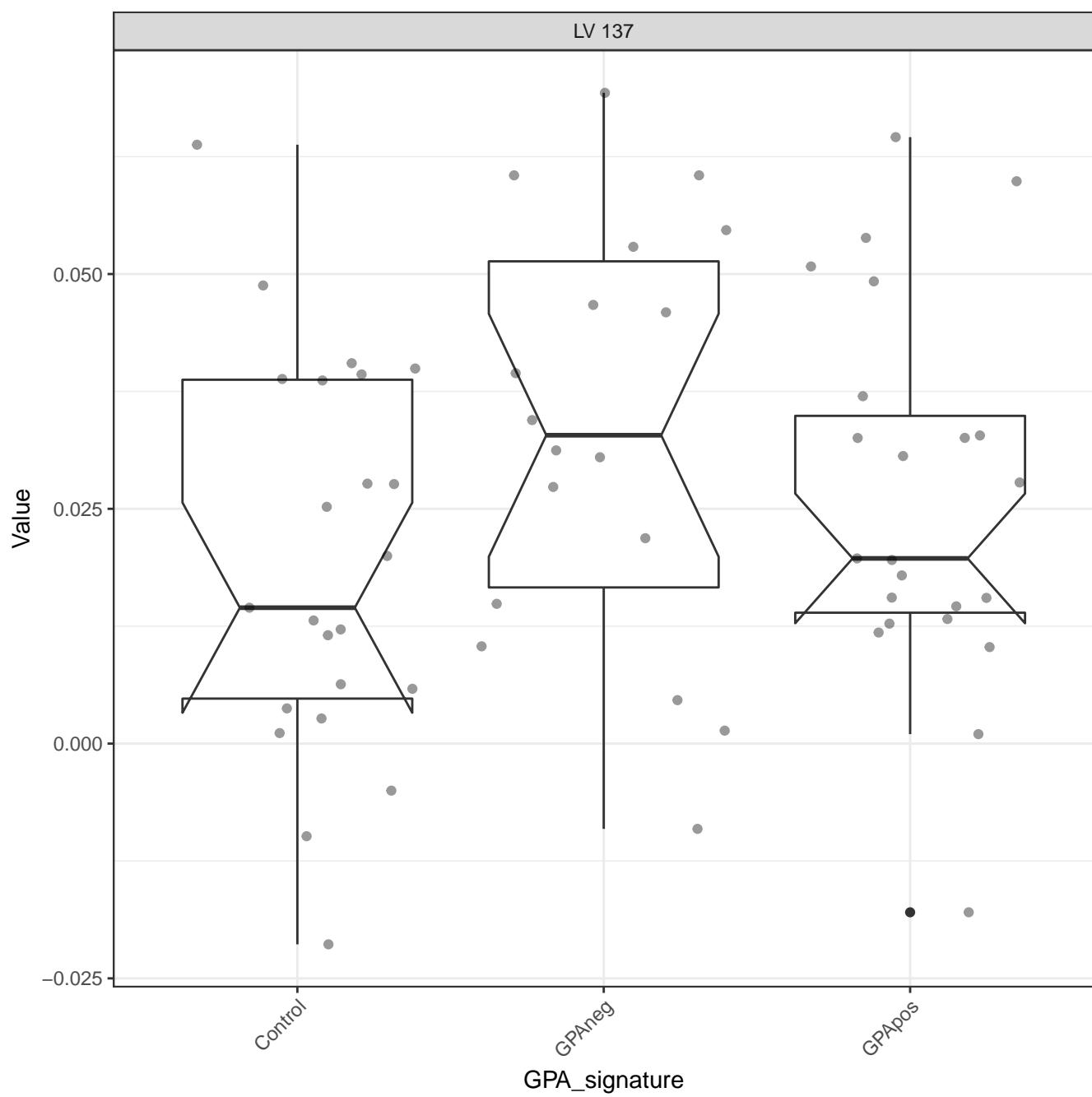
LV 135



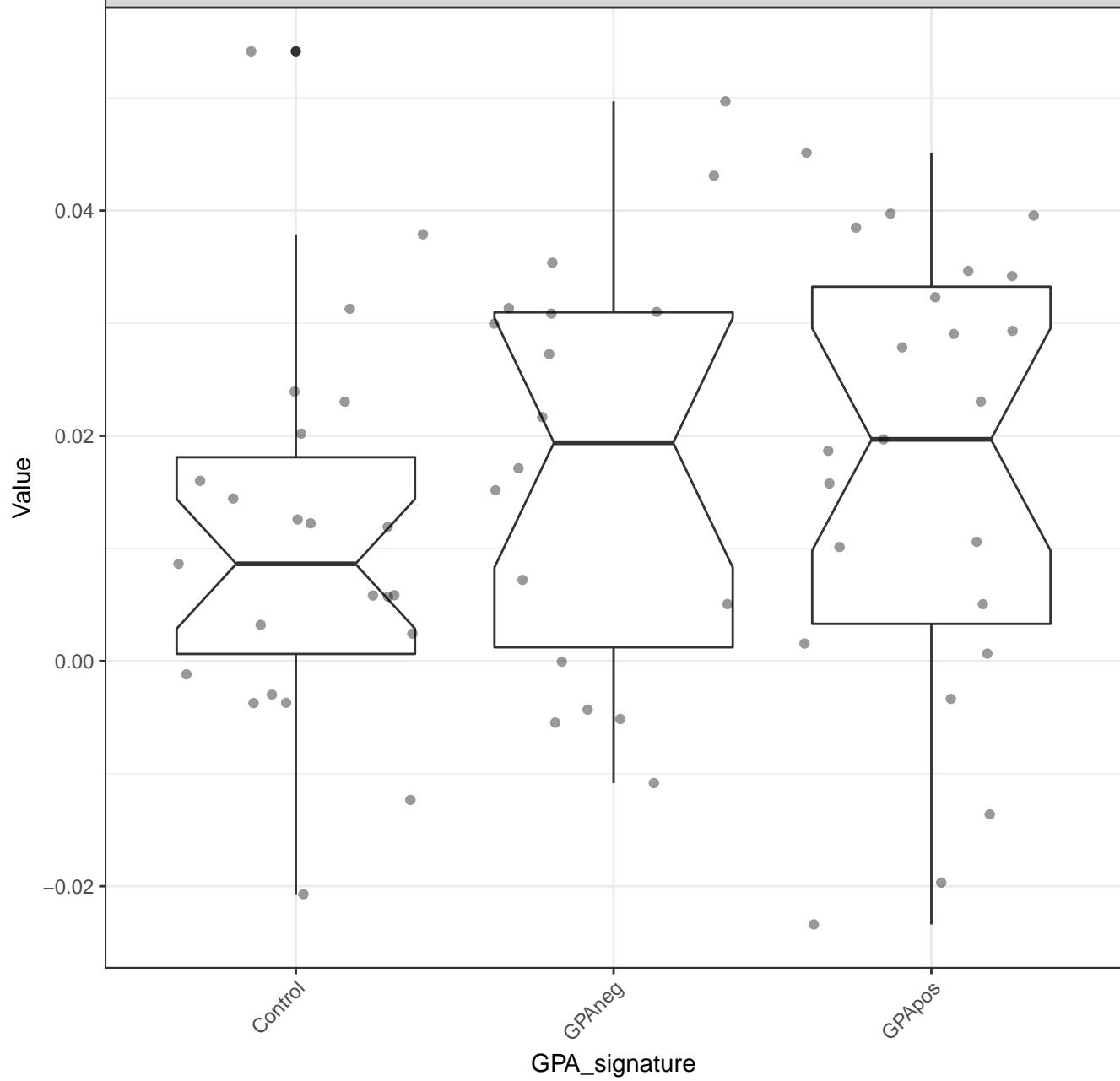
## 136,PID\_INTEGRIN1\_PATHWAY



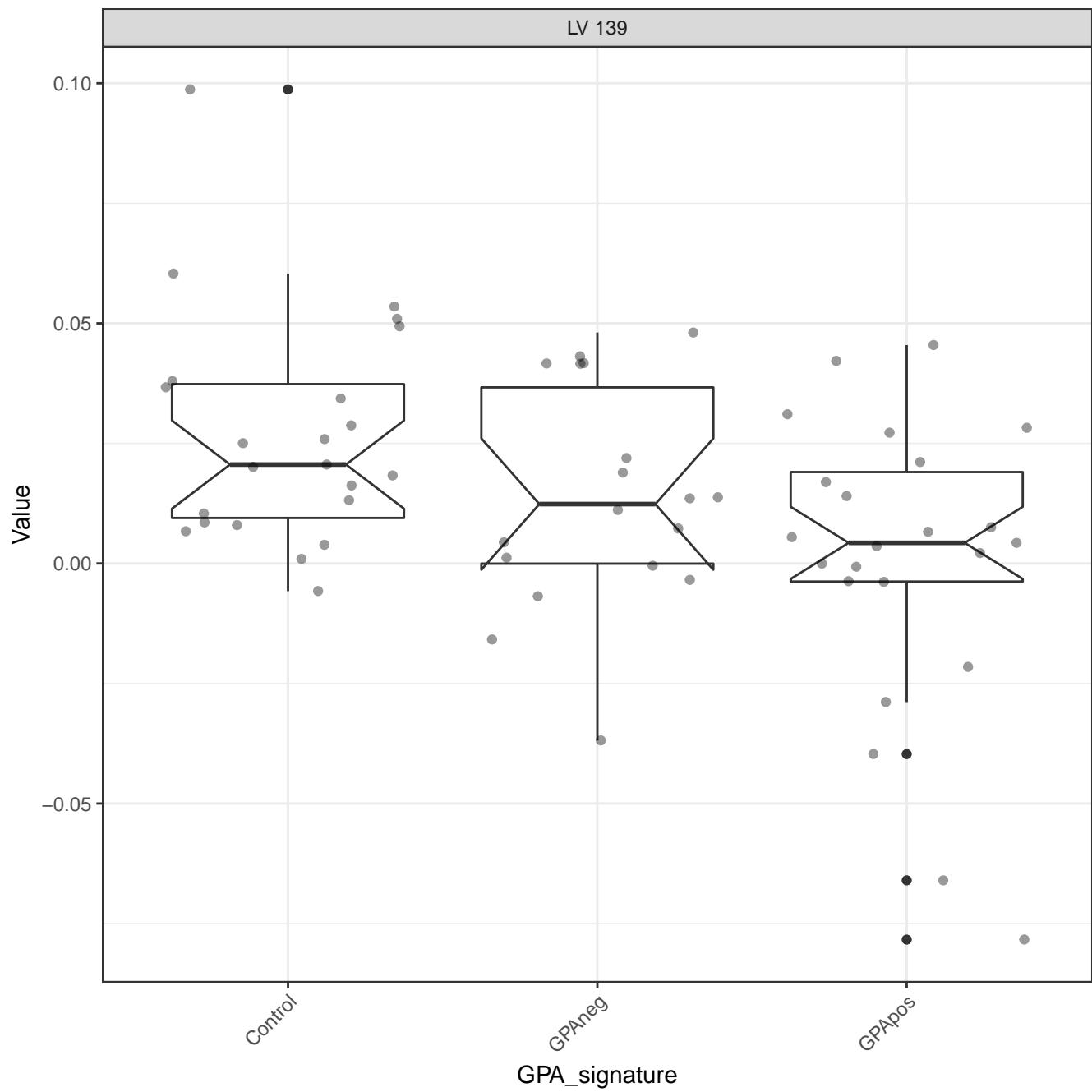
## LV 137



LV 138



LV 139



## 140,REACTOME\_INTERFERON\_GAMMA\_SIGNALING

Value

0.10

0.05

0.00

-0.05

-0.10

Control

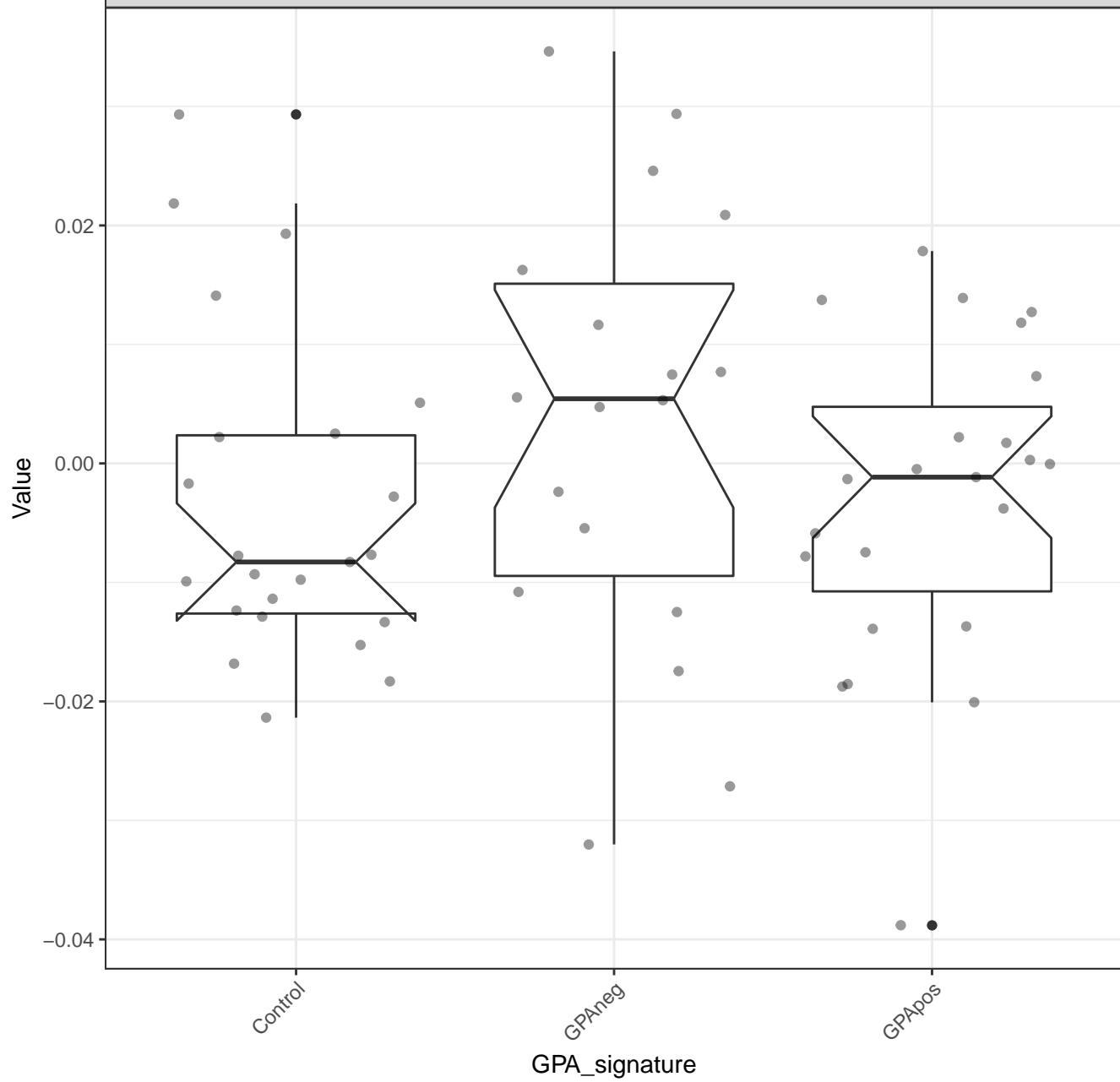
GPA\_signature

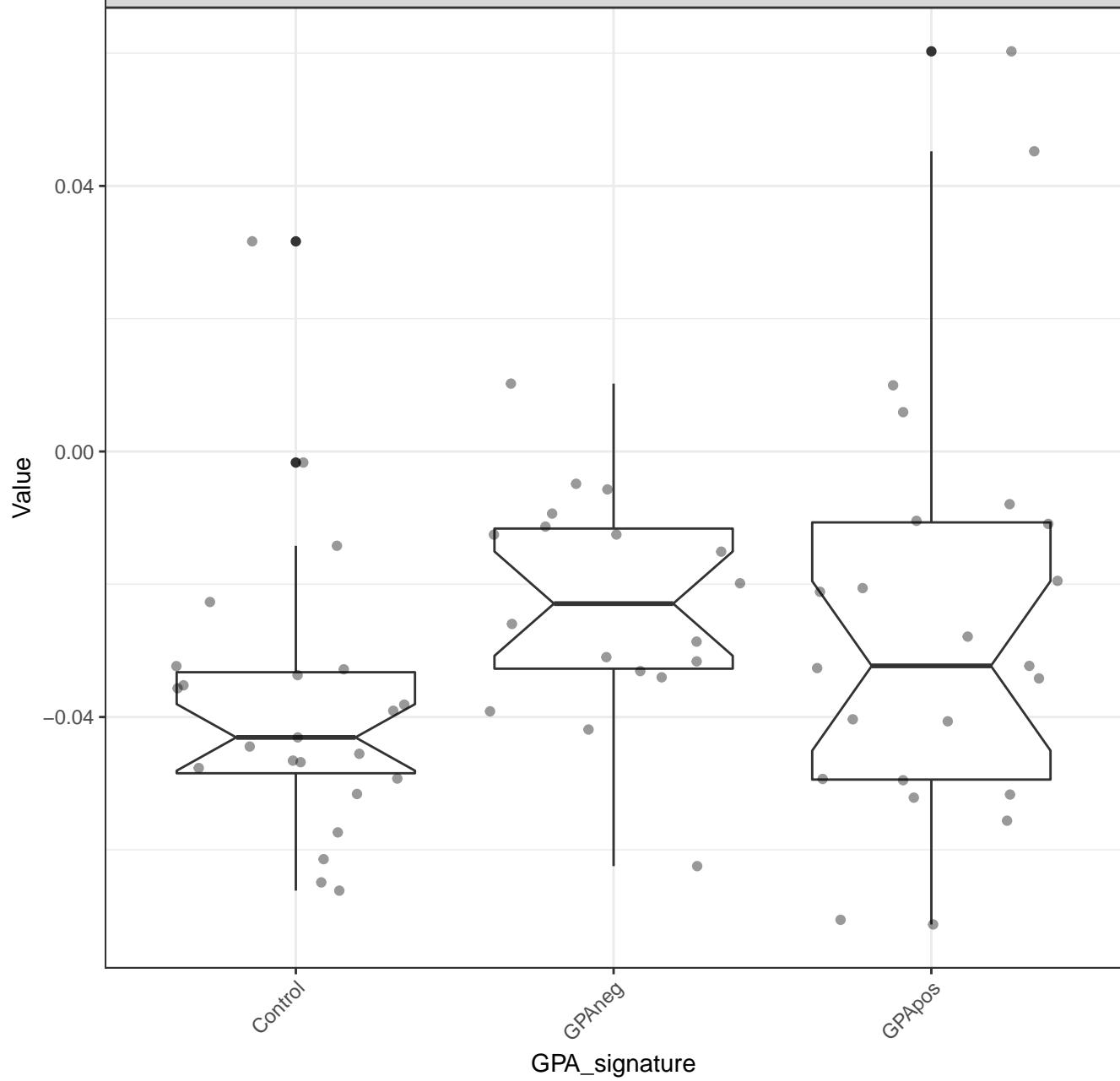
GPAneg

GPAPos

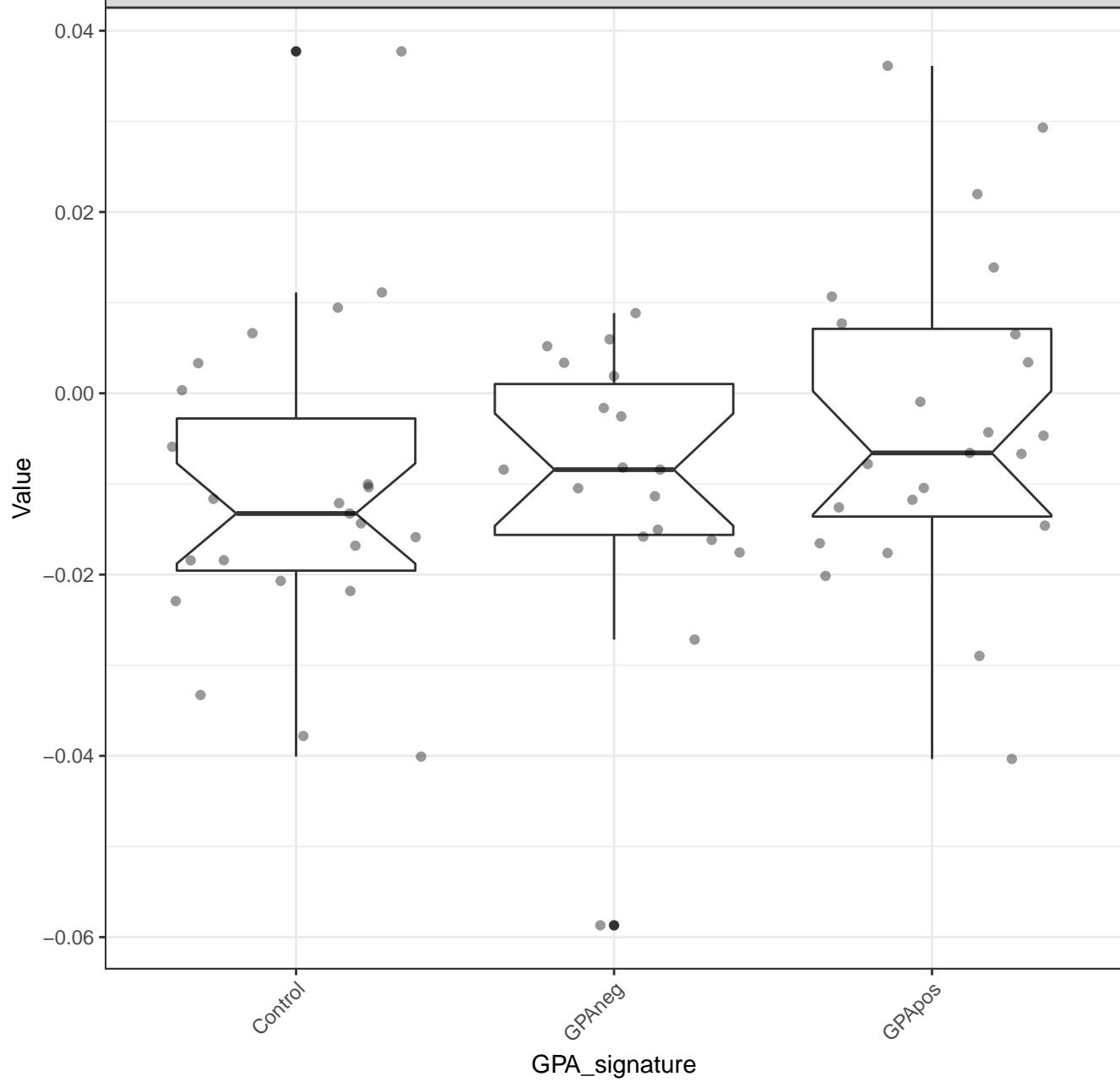


LV 141

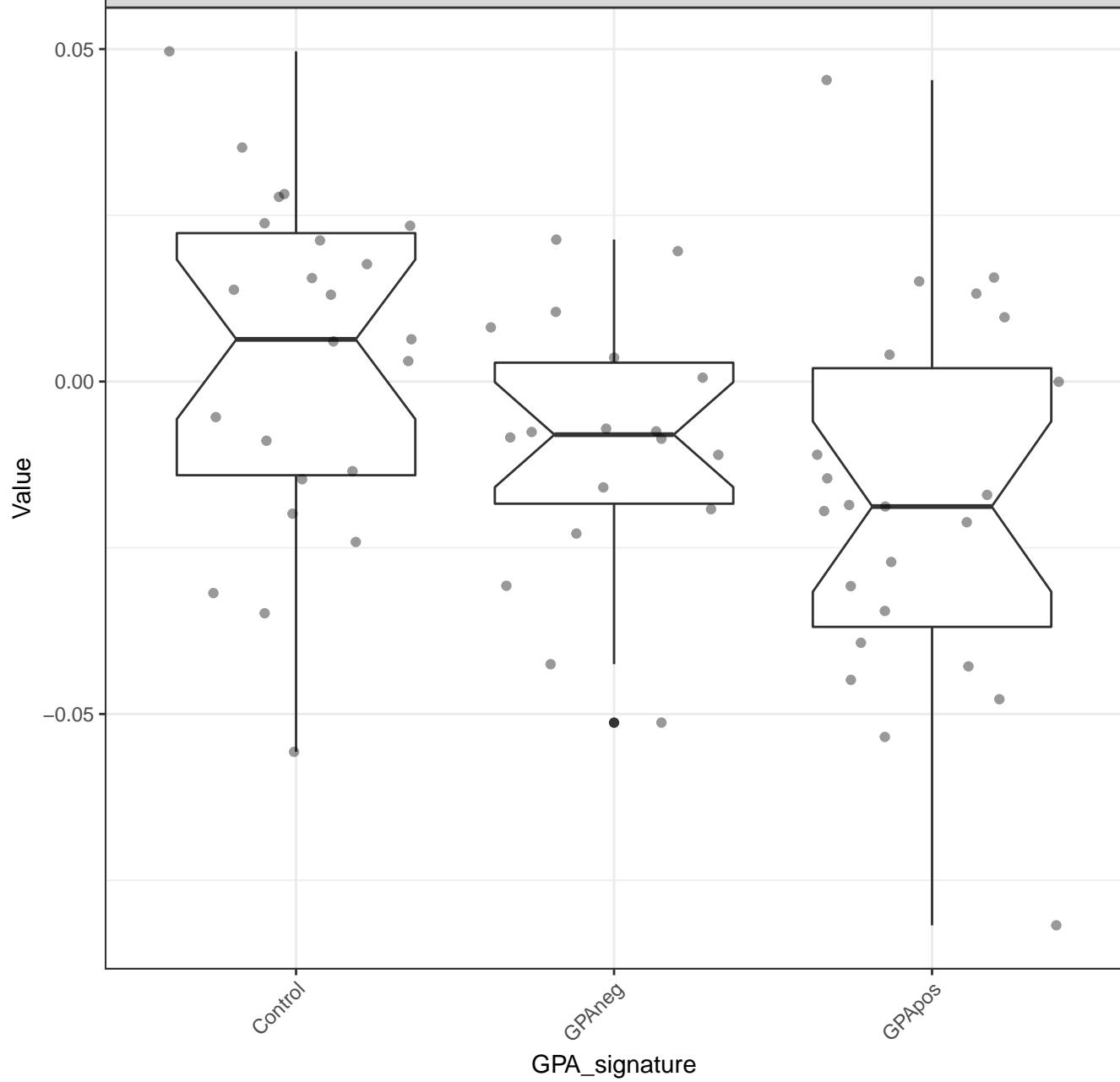




LV 143



LV 144



LV 145

Value

0.10

0.05

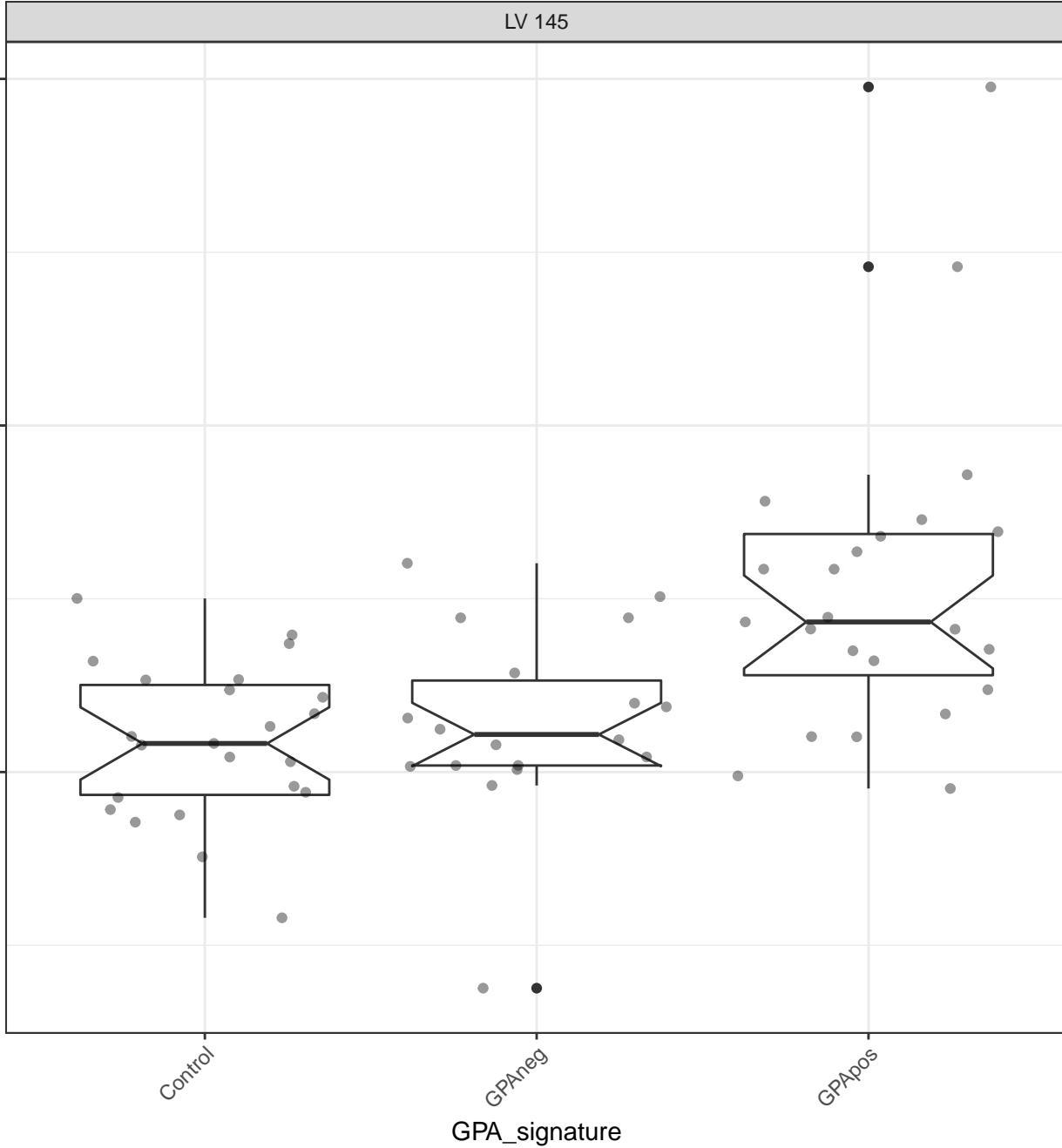
0.00

Control

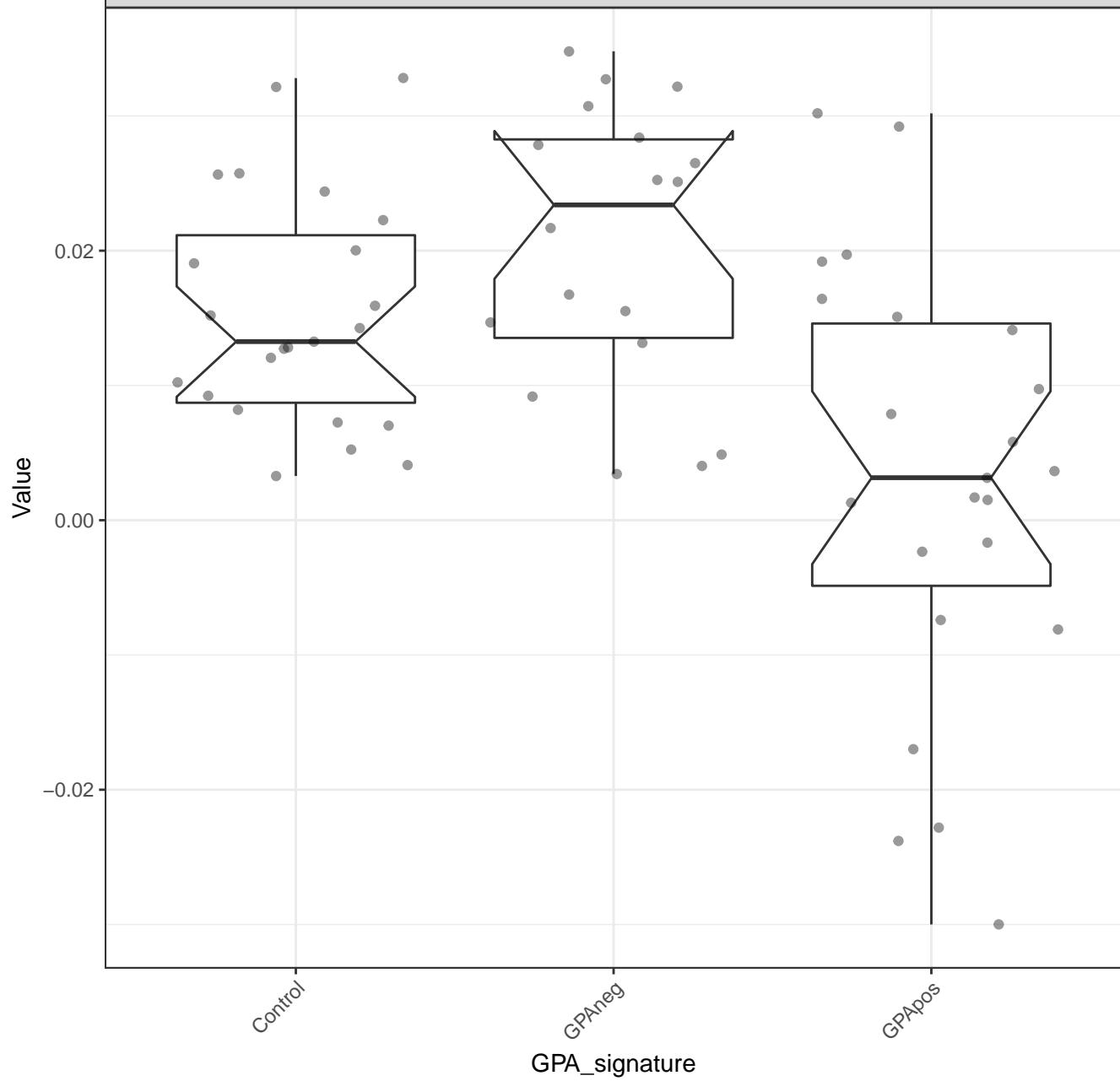
GPAneg

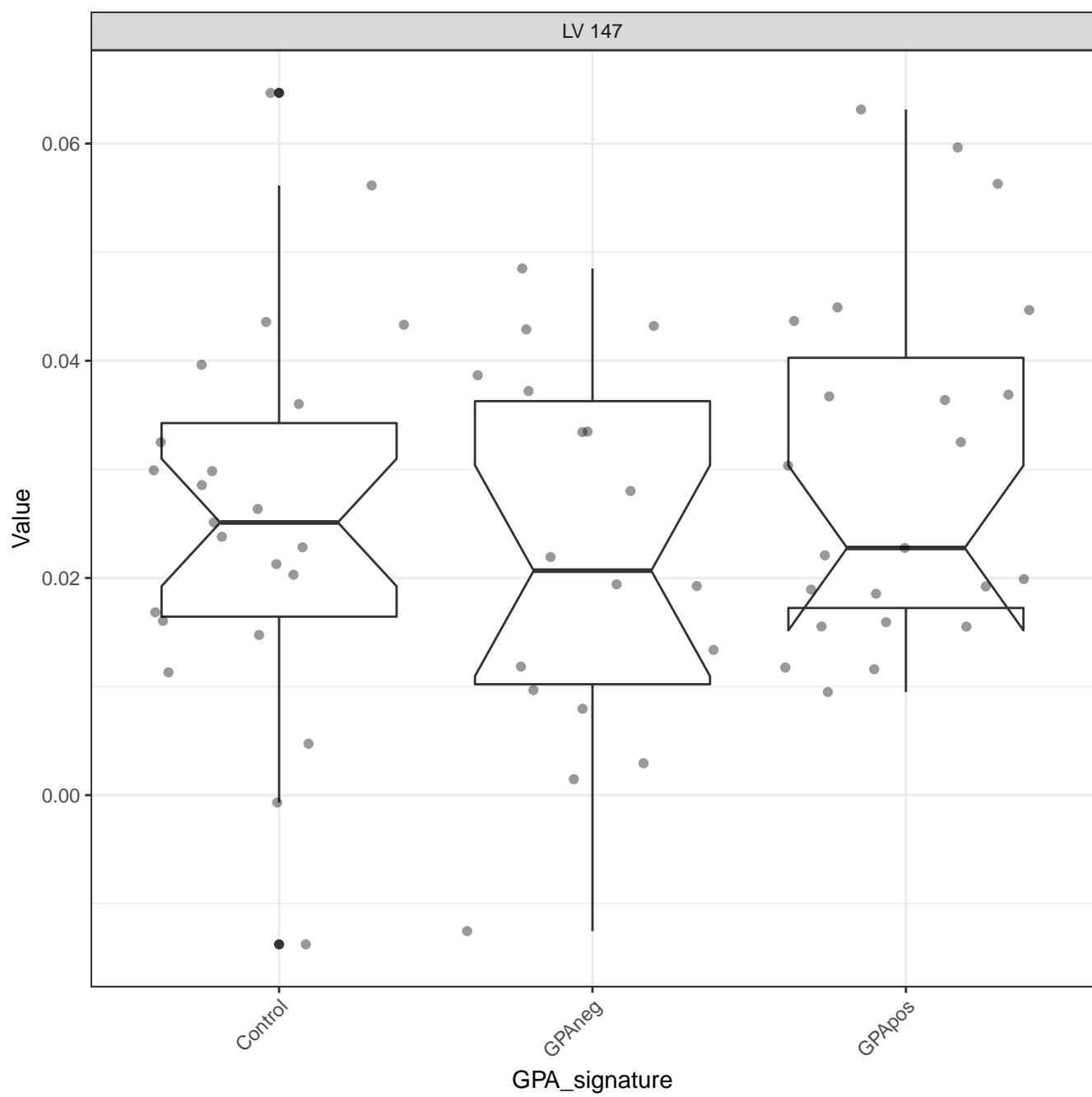
GPApos

GPA\_signature



LV 146





## LV 148

Value

0.025

0.000

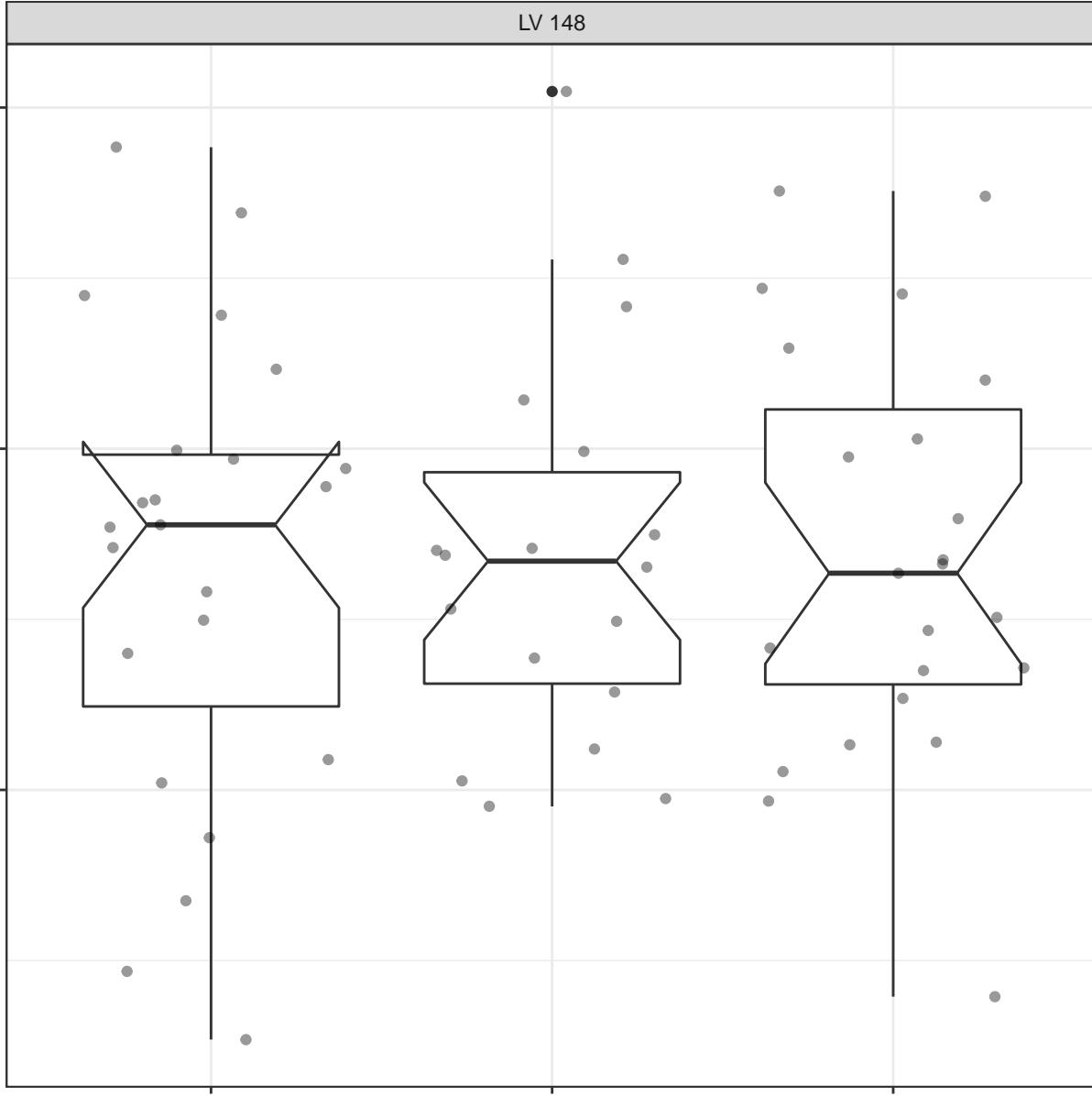
-0.025

Control

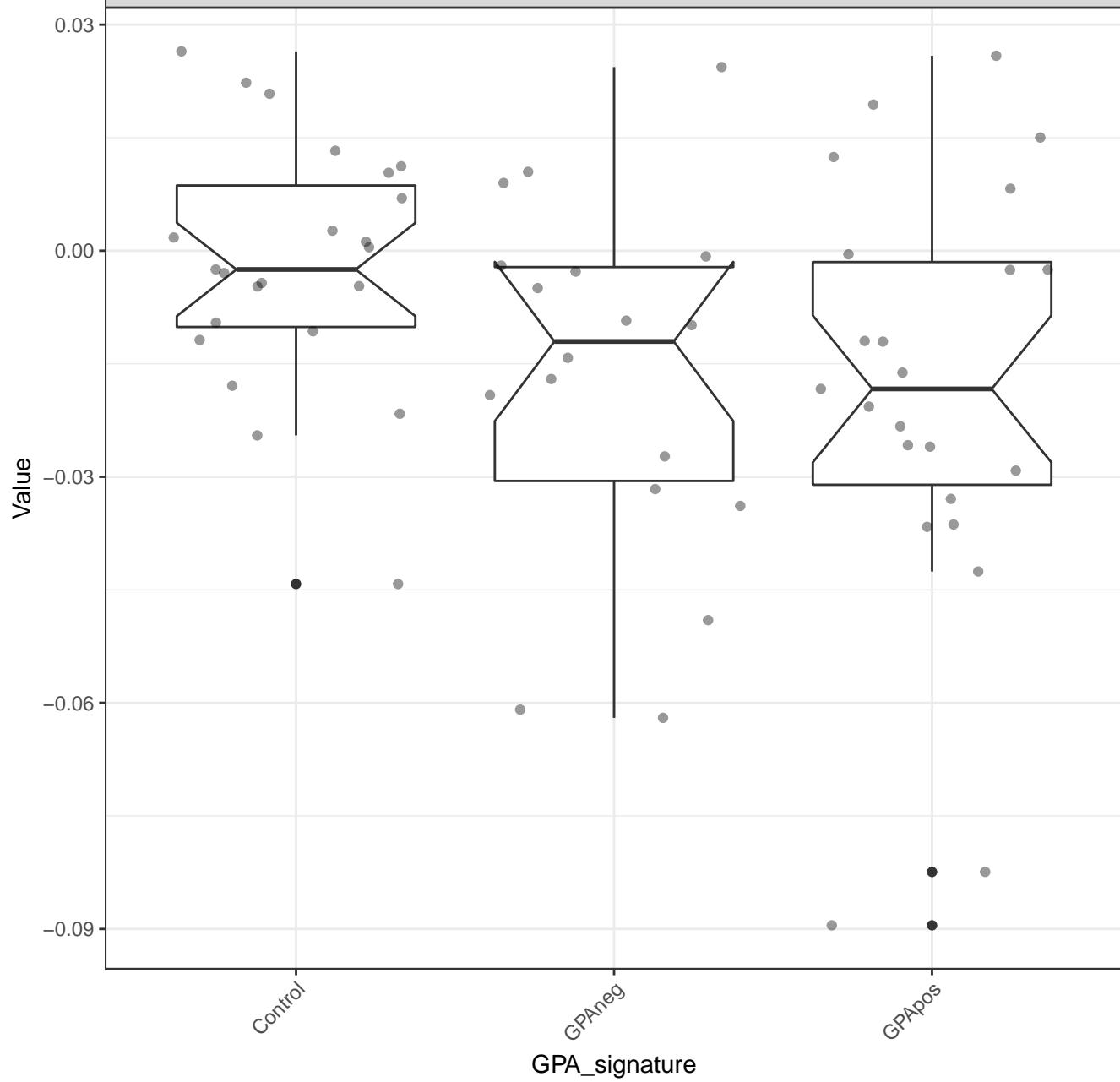
GPA\_signature

GPAneg

GPAPos



LV 149



LV 150

Value

0.08

0.04

0.00

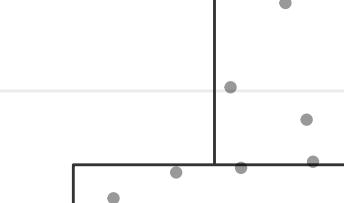
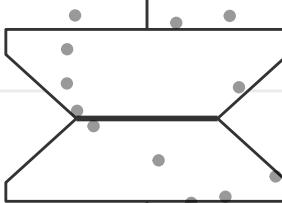
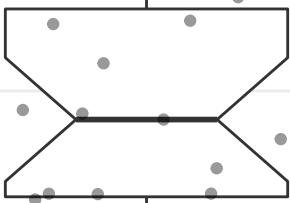
-0.04

Control

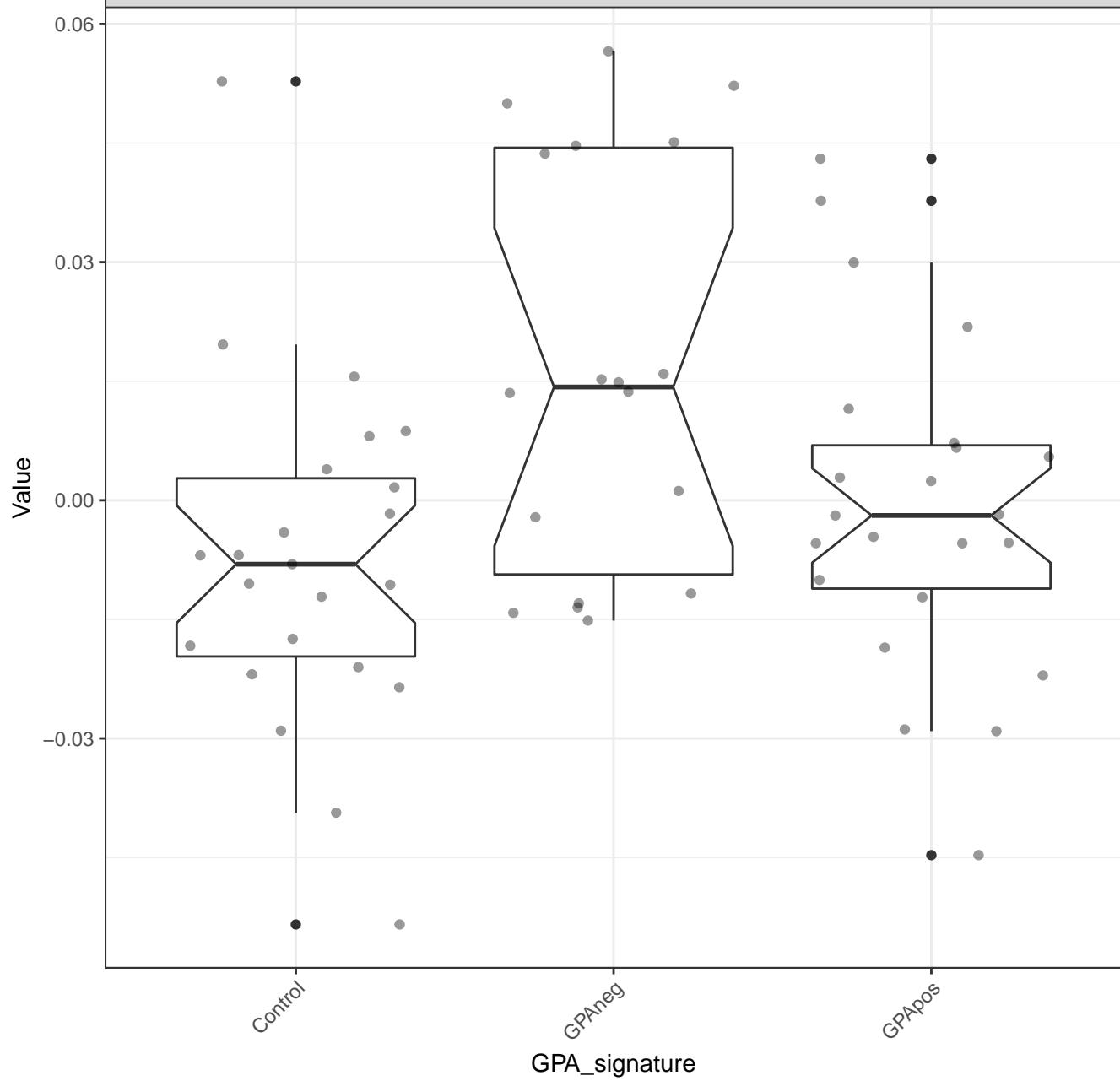
GPAneg

GPApos

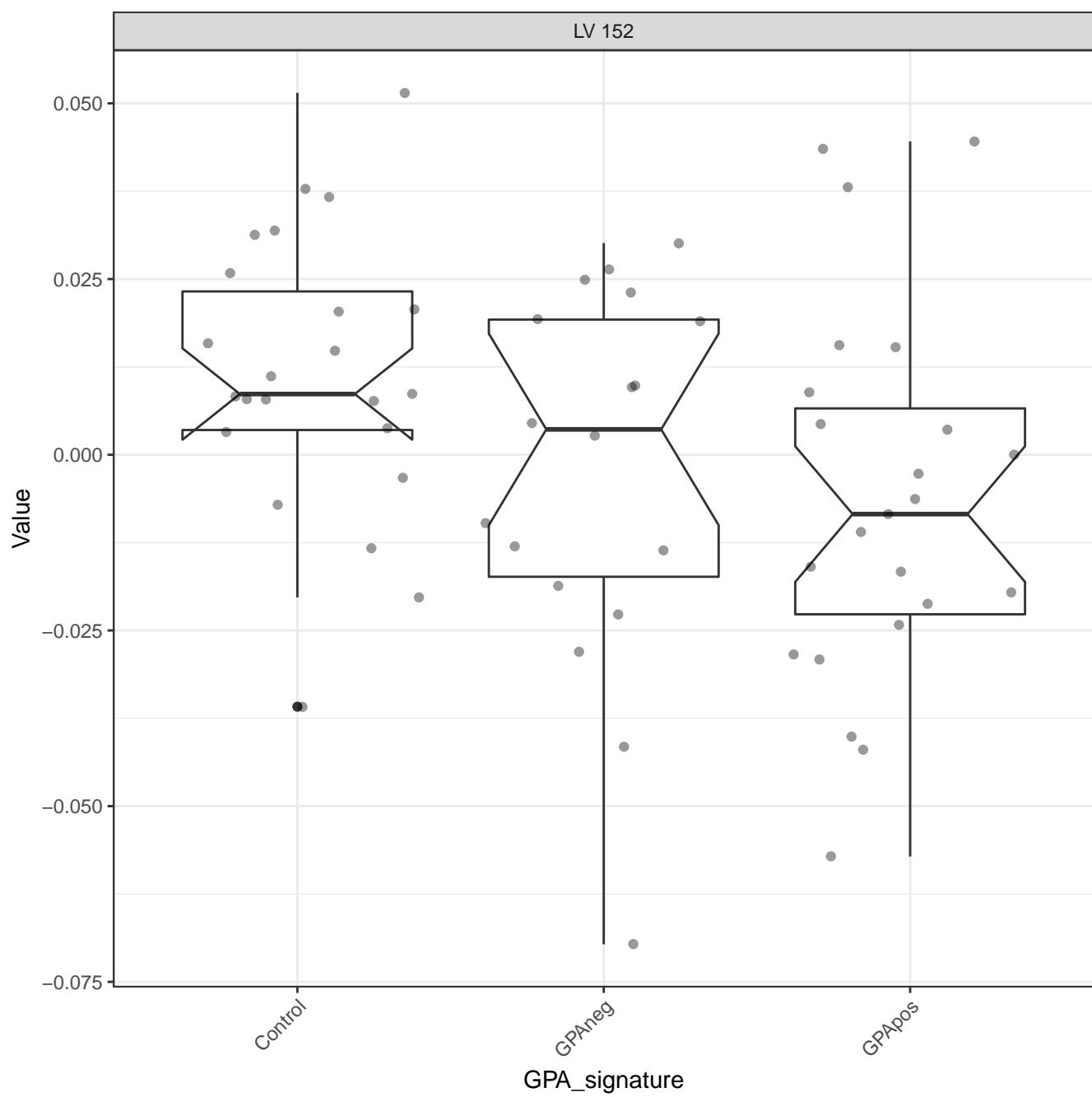
GPA\_signature



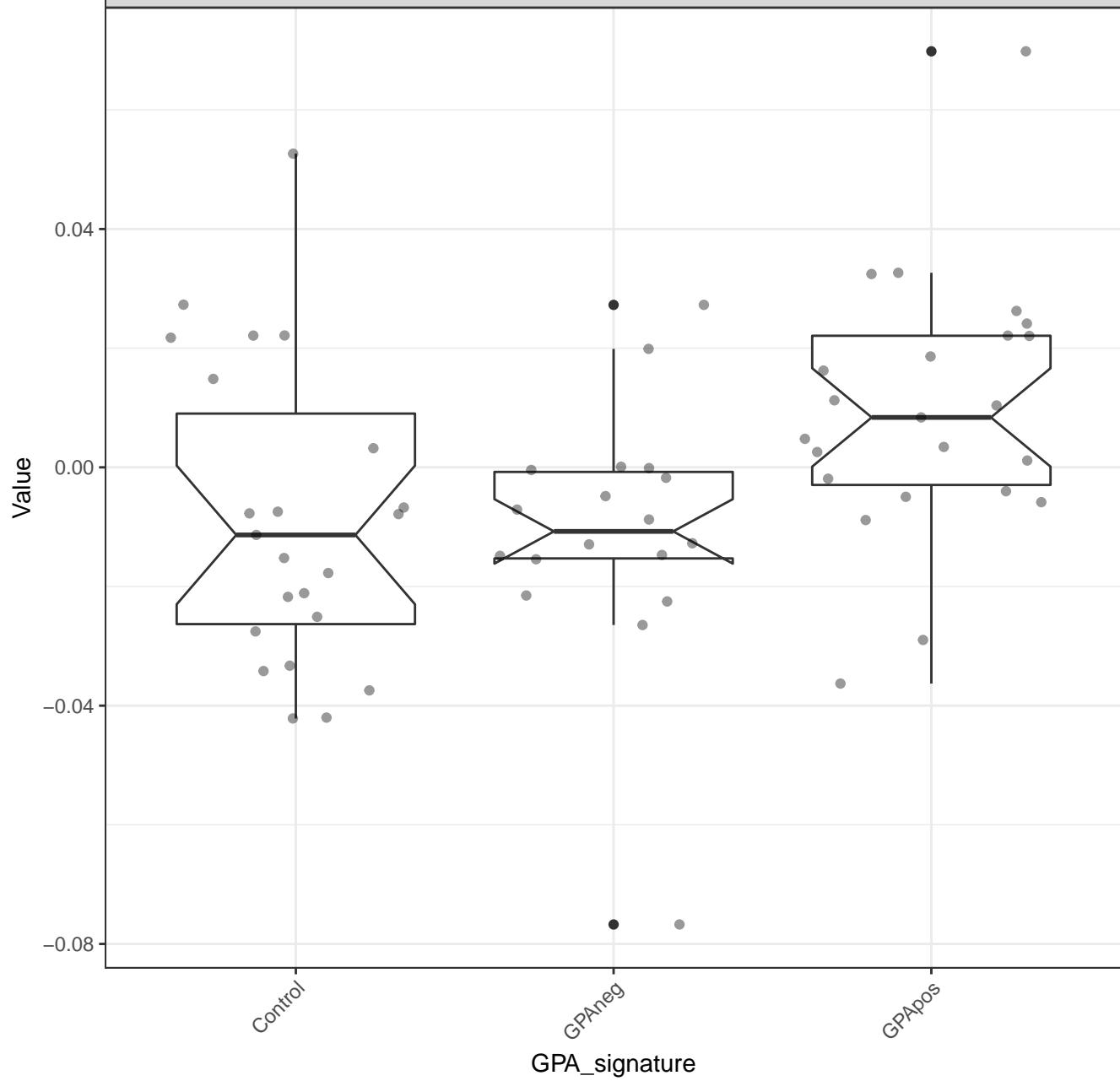
LV 151



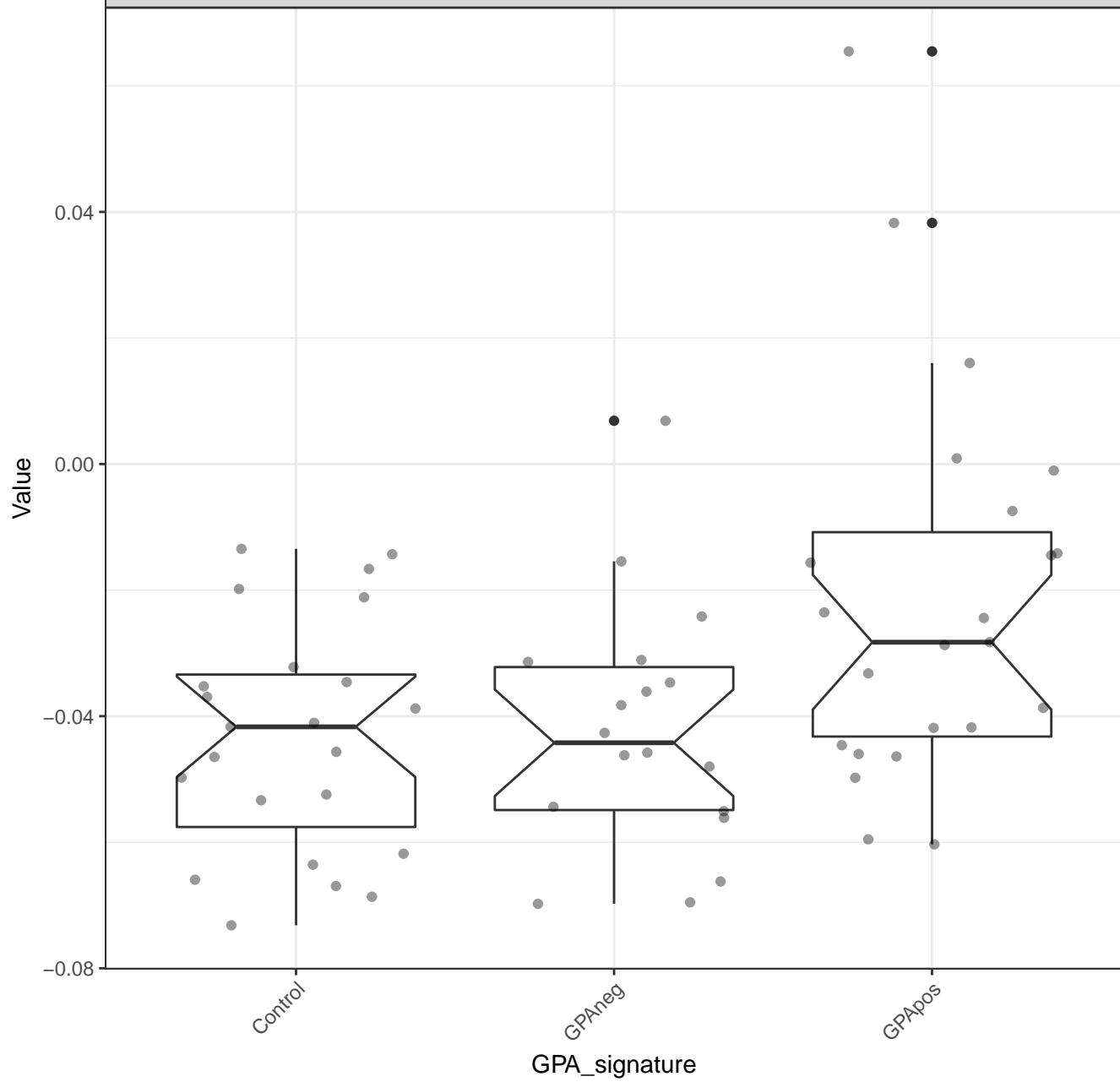
## LV 152



LV 153



LV 154



LV 155

Value

0.05

0.00

-0.05

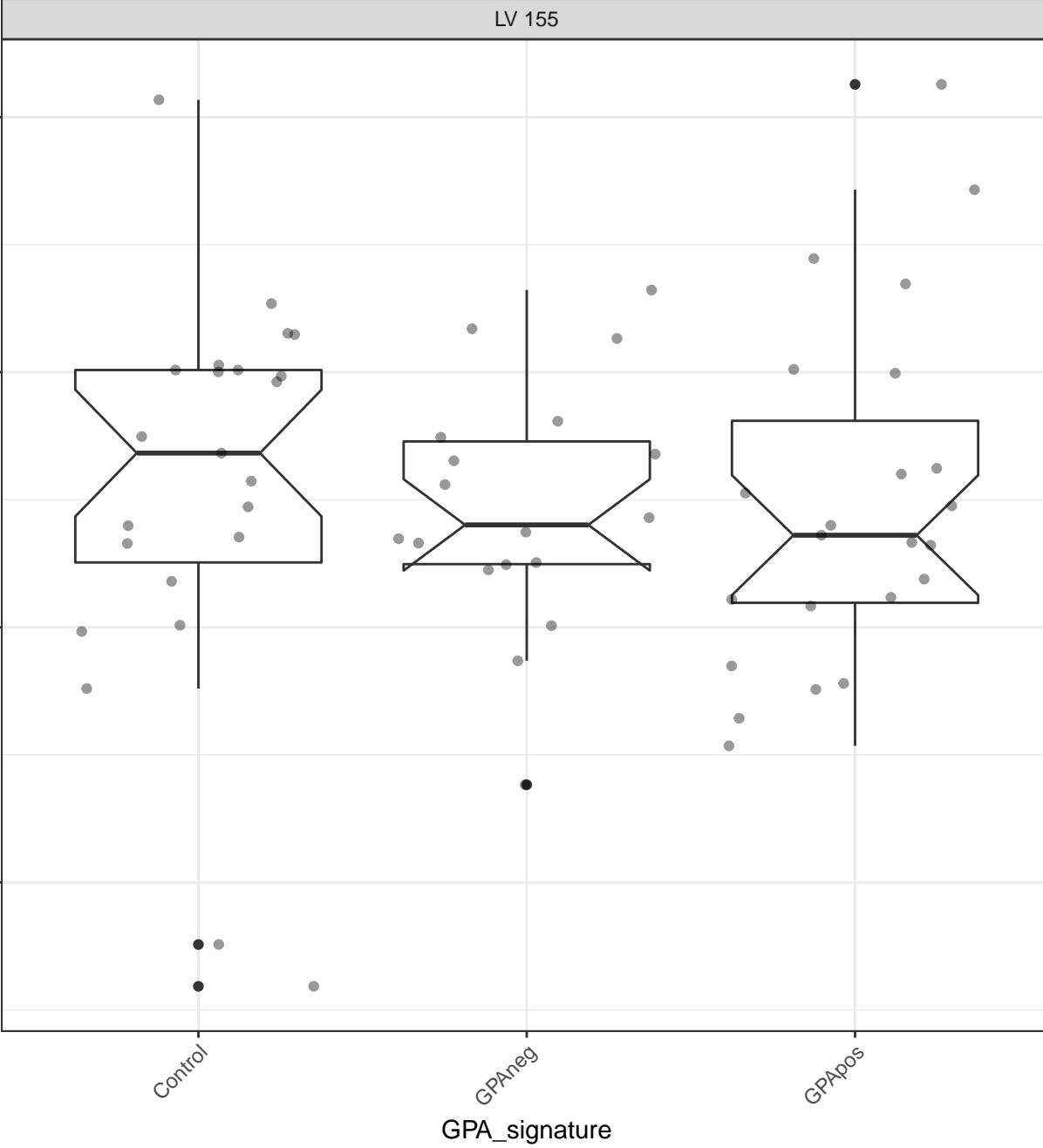
-0.10

Control

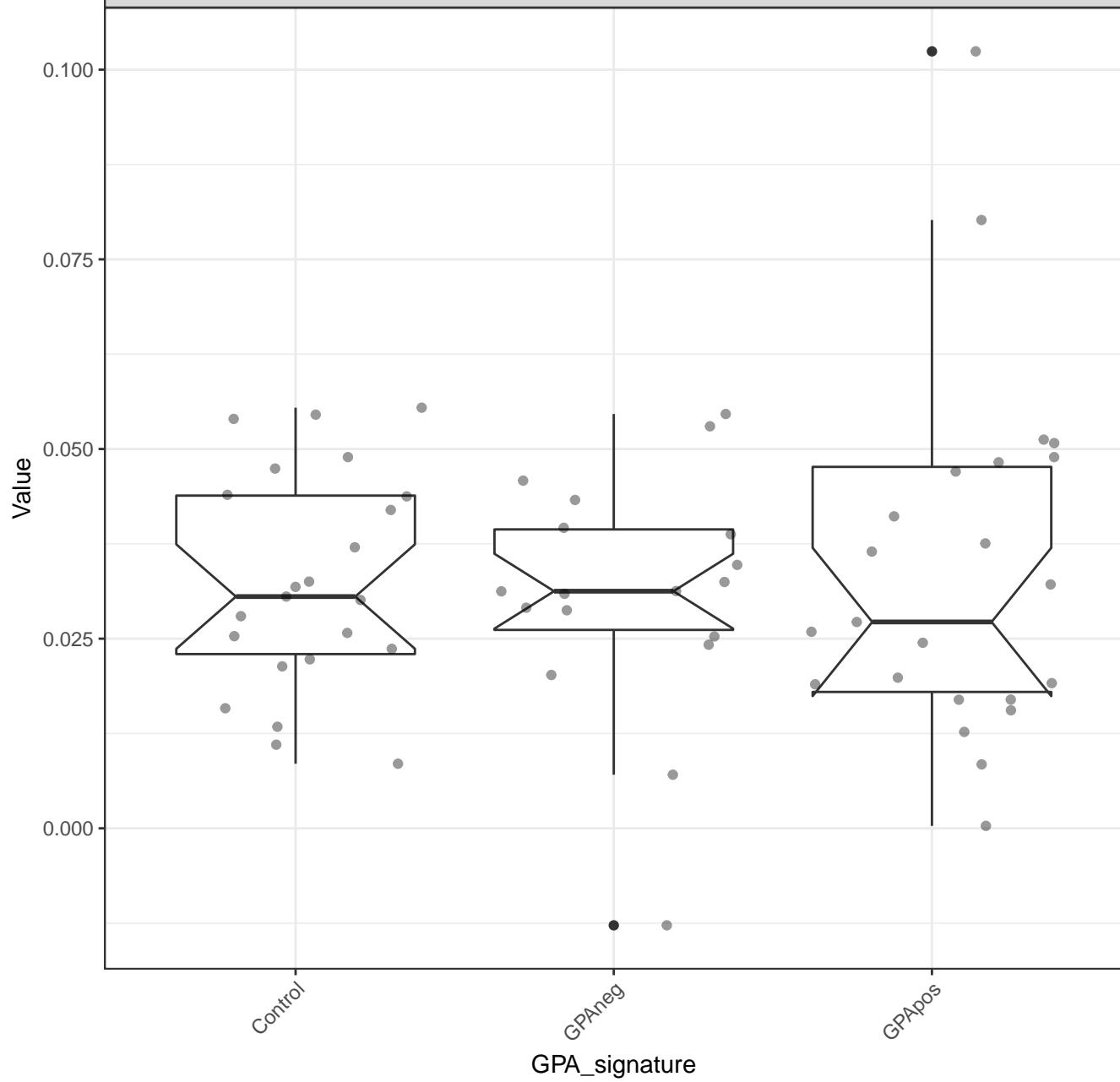
GPA\_signature

GPAneg

GPApos

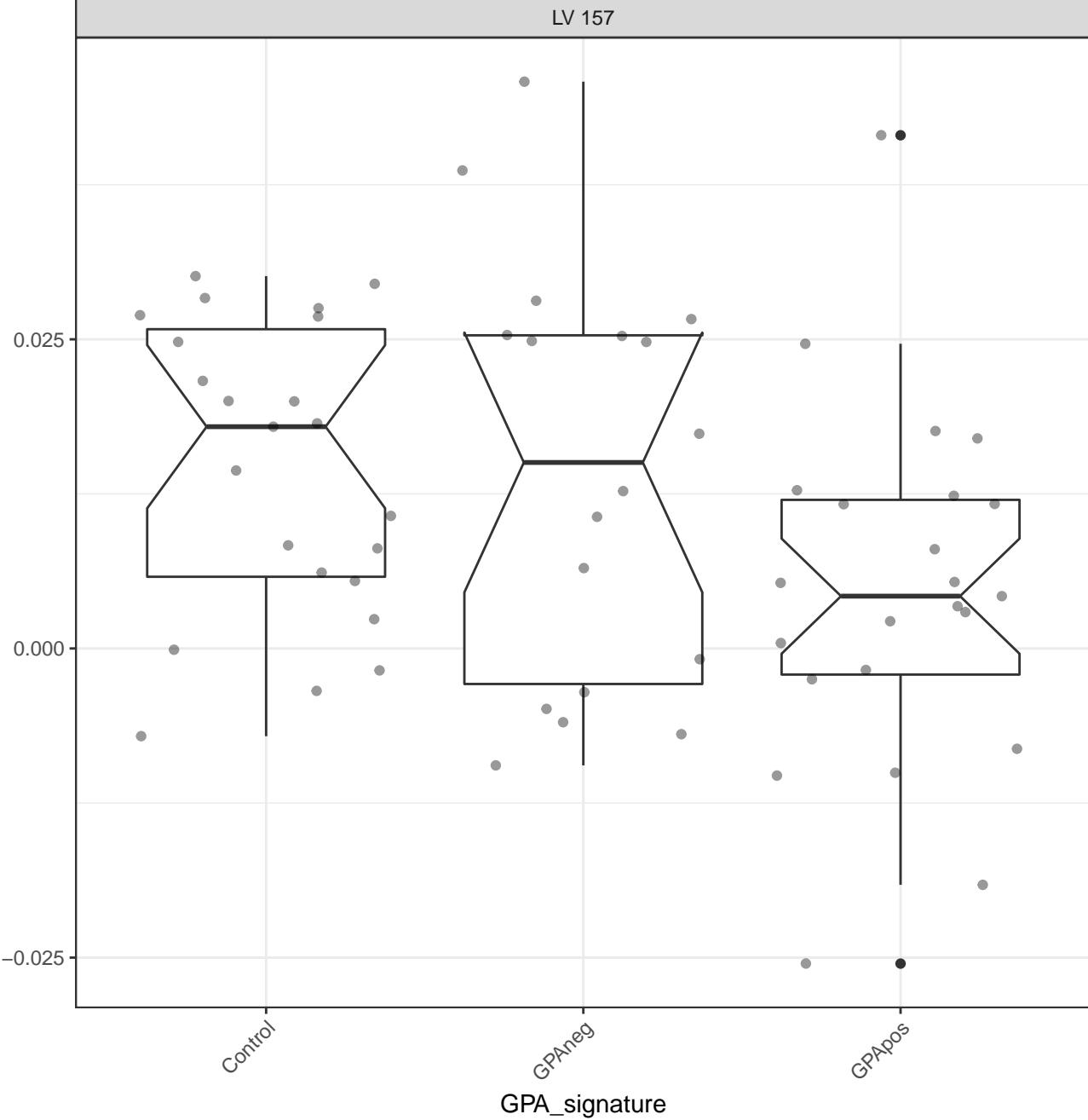


LV 156

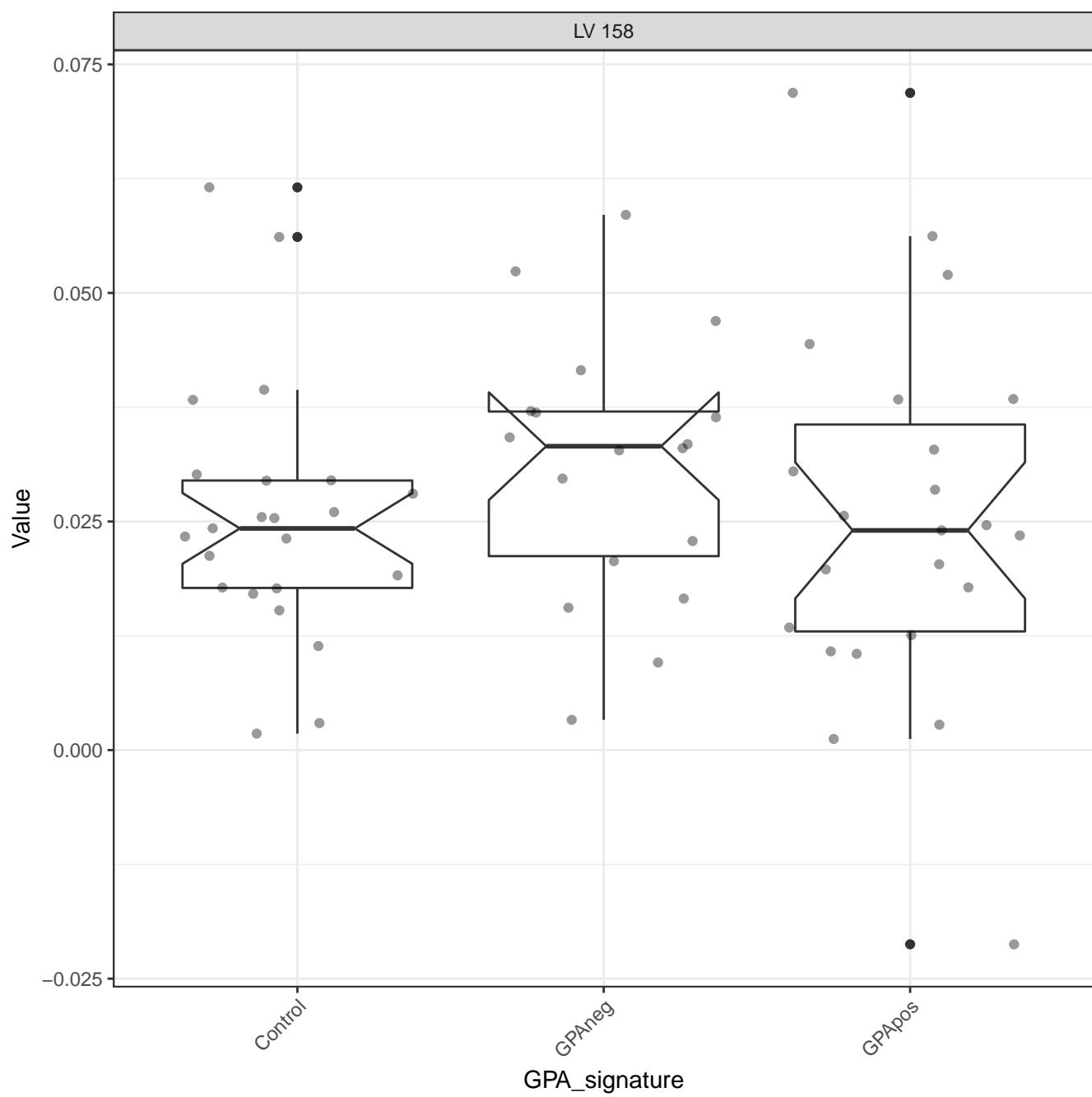


## LV 157

Value



LV 158



LV 159

Value

0.05

0.00

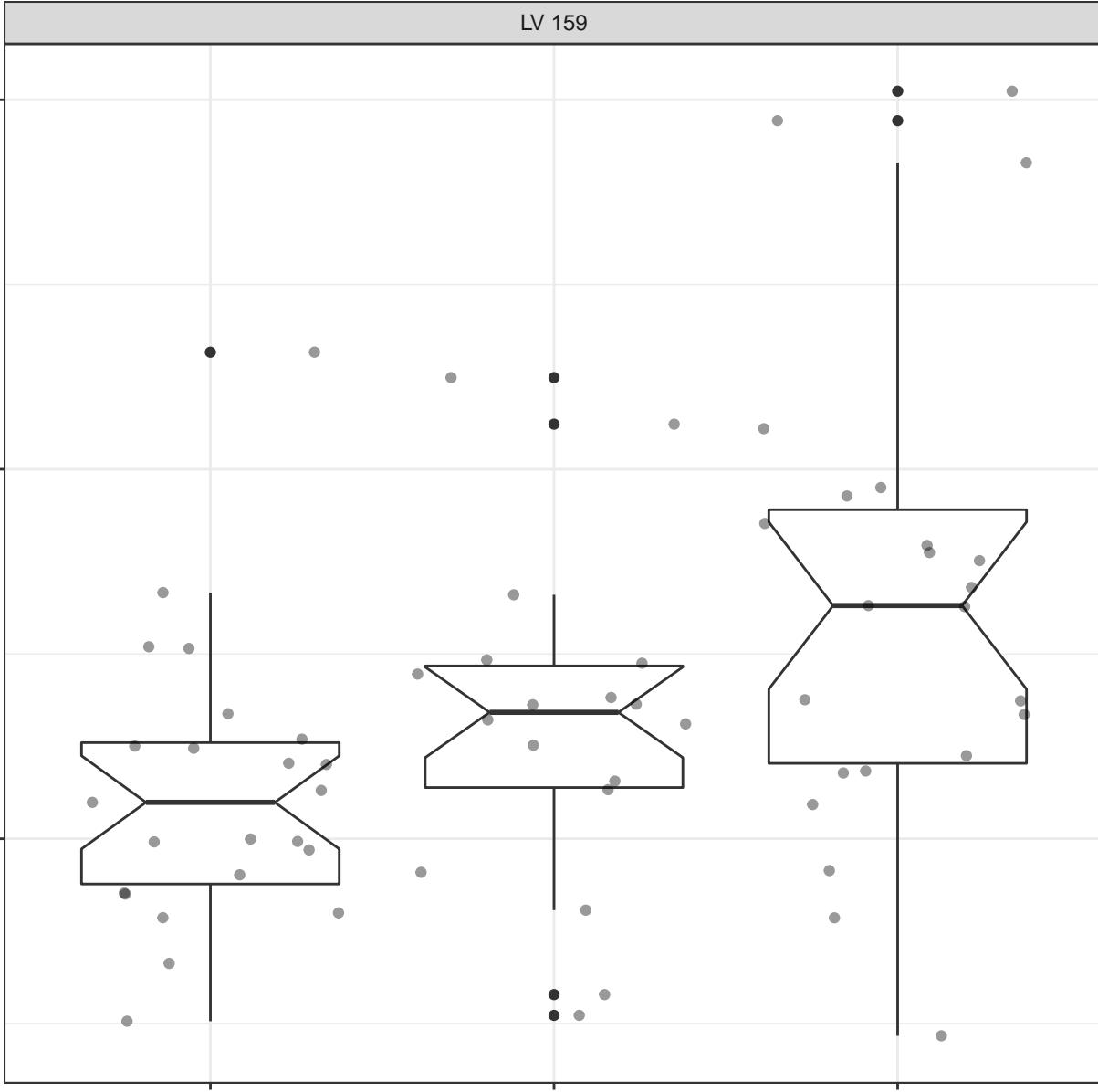
-0.05

Control

GPA neg

GPA pos

GPA\_signature



Value

0.05

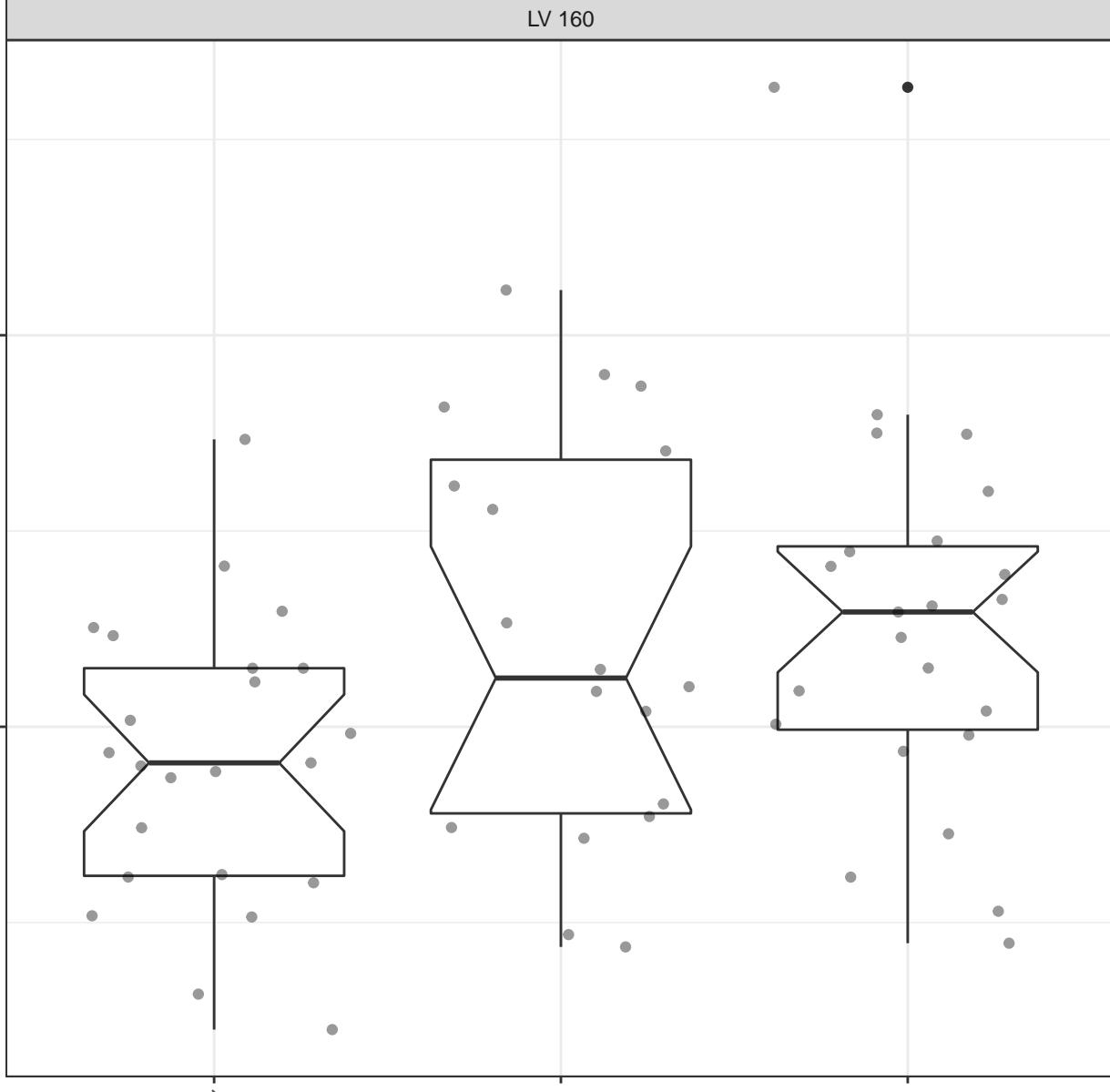
0.00

Control

GPA\_signature

GPAneg

GPApos



## 161,REACTOME\_TRNA\_AMINOACYLATION

Value

0.10

0.05

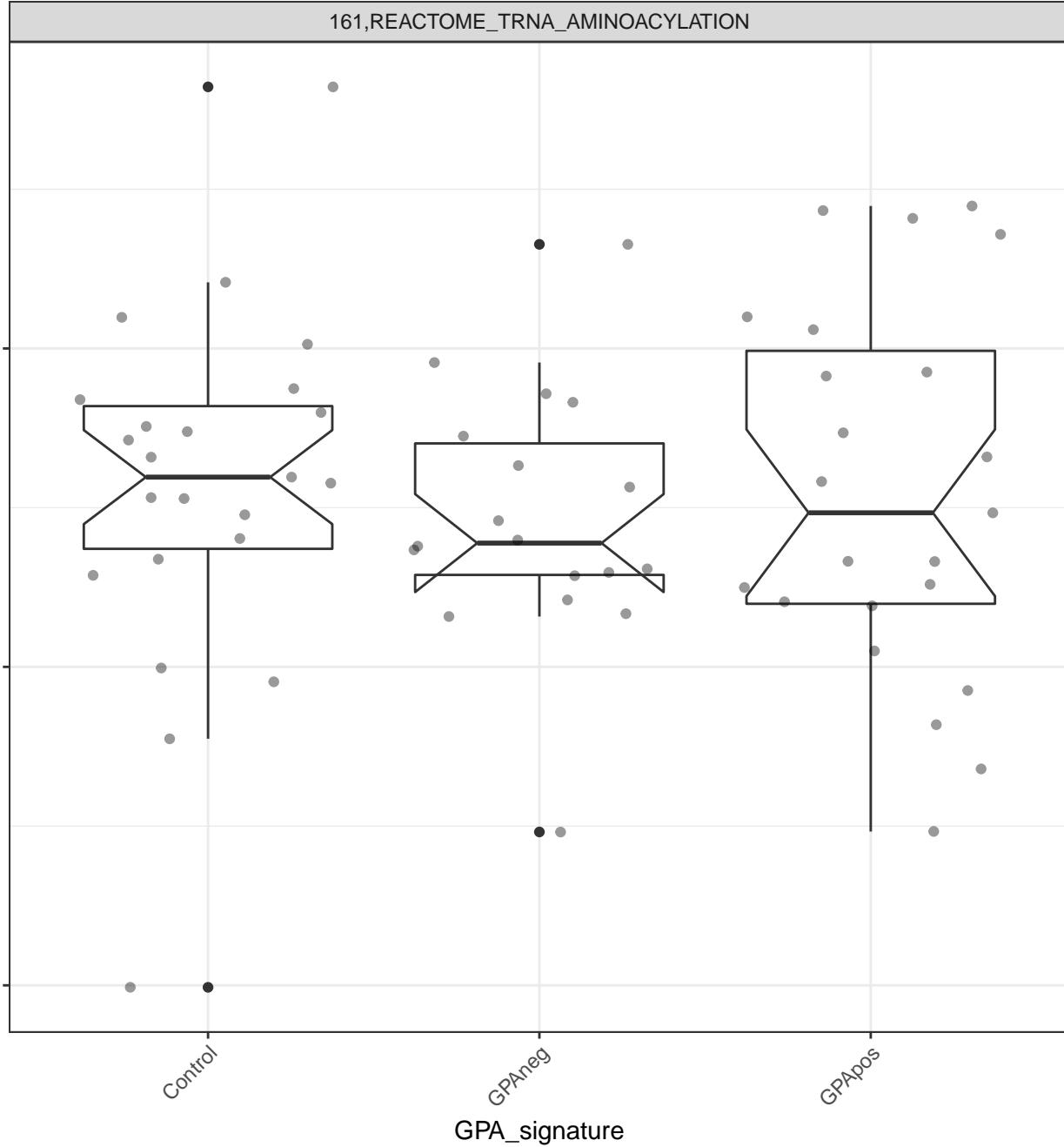
0.00

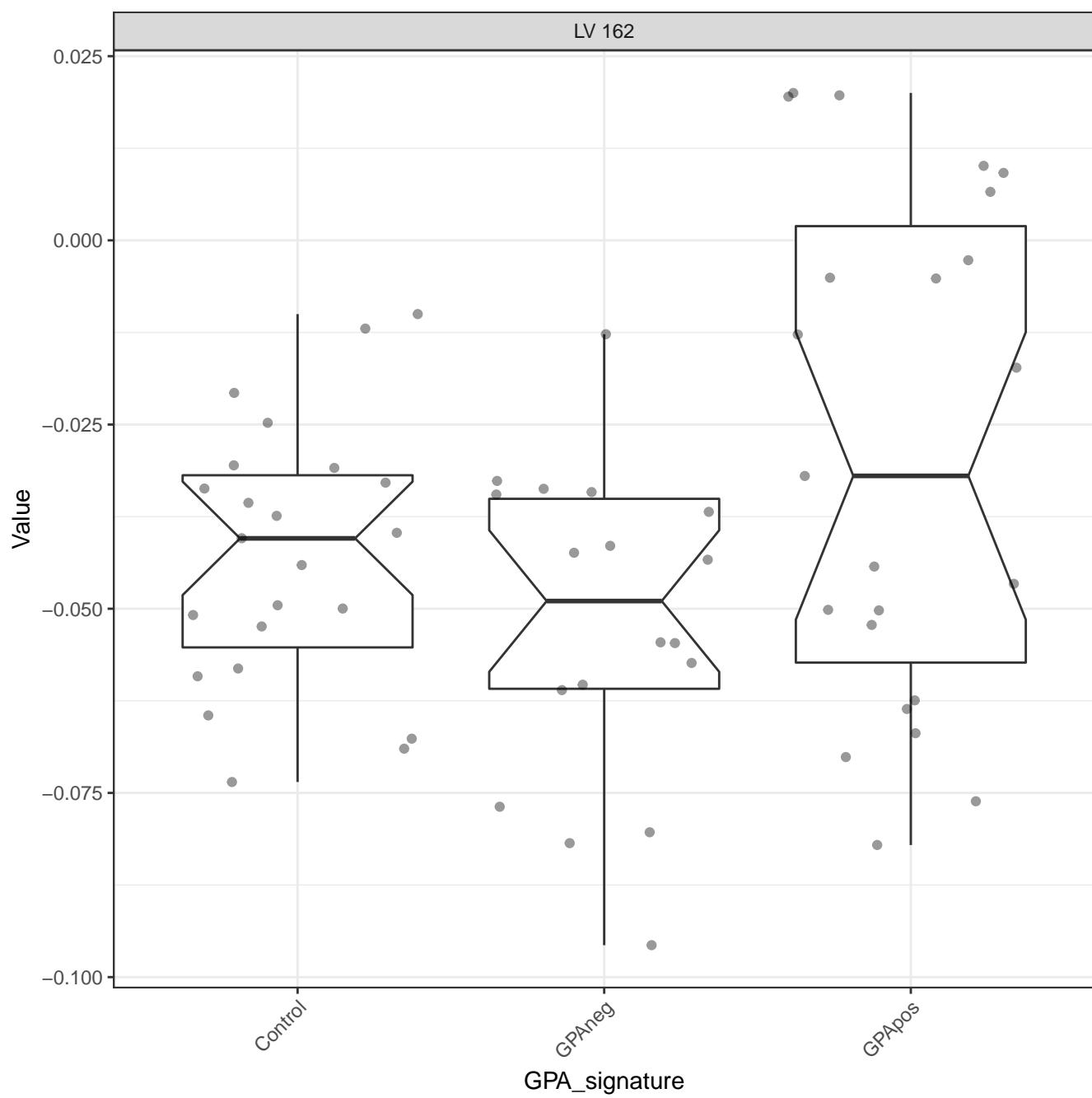
Control

GPA\_signature

GPAneg

GPAPos





## LV 163

Value

0.10

0.05

0.00

-0.05

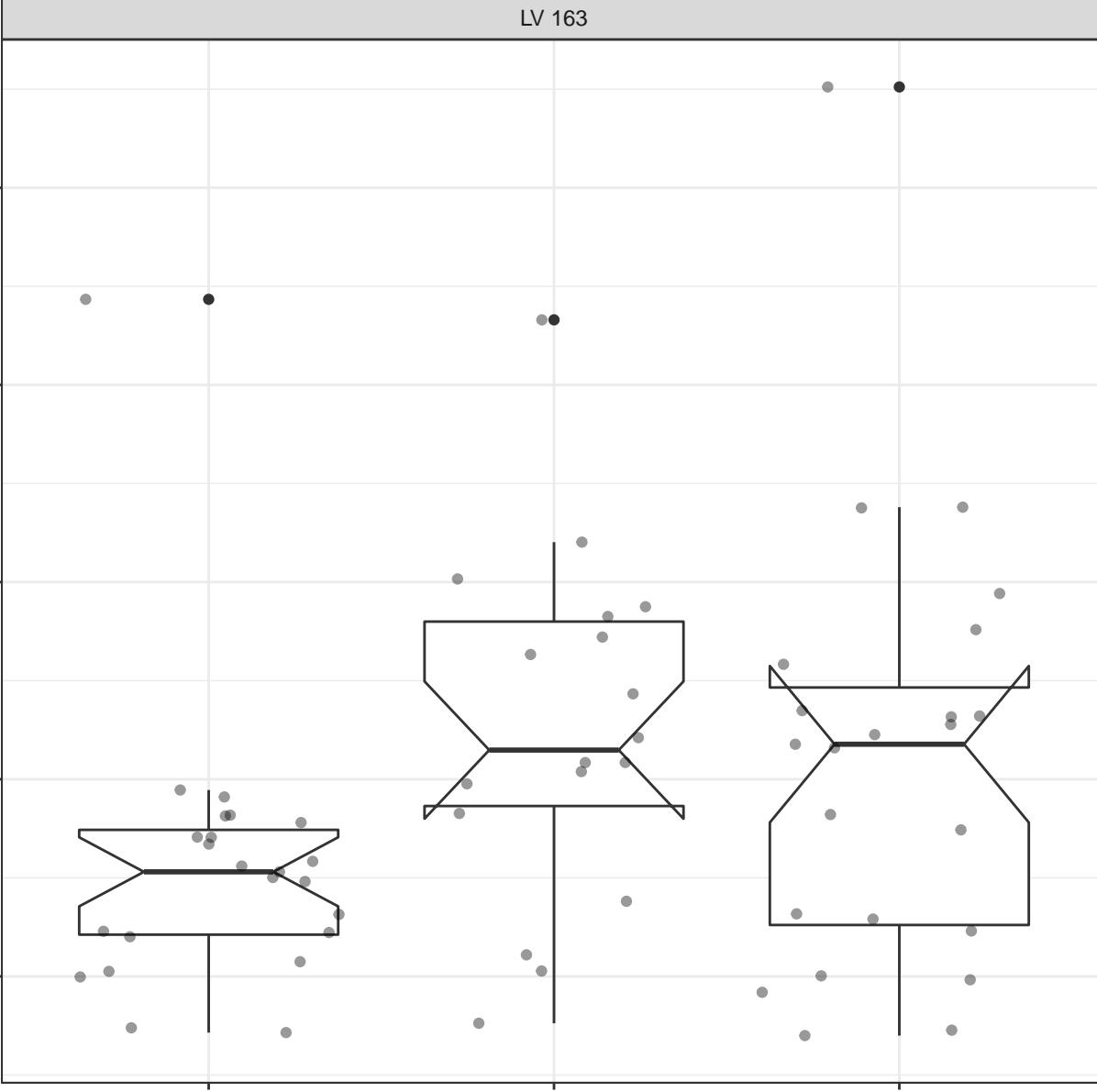
-0.10

Control

GPA\_signature

GPAneg

GPAPos



LV 164

Value

0.05

0.01

-0.05

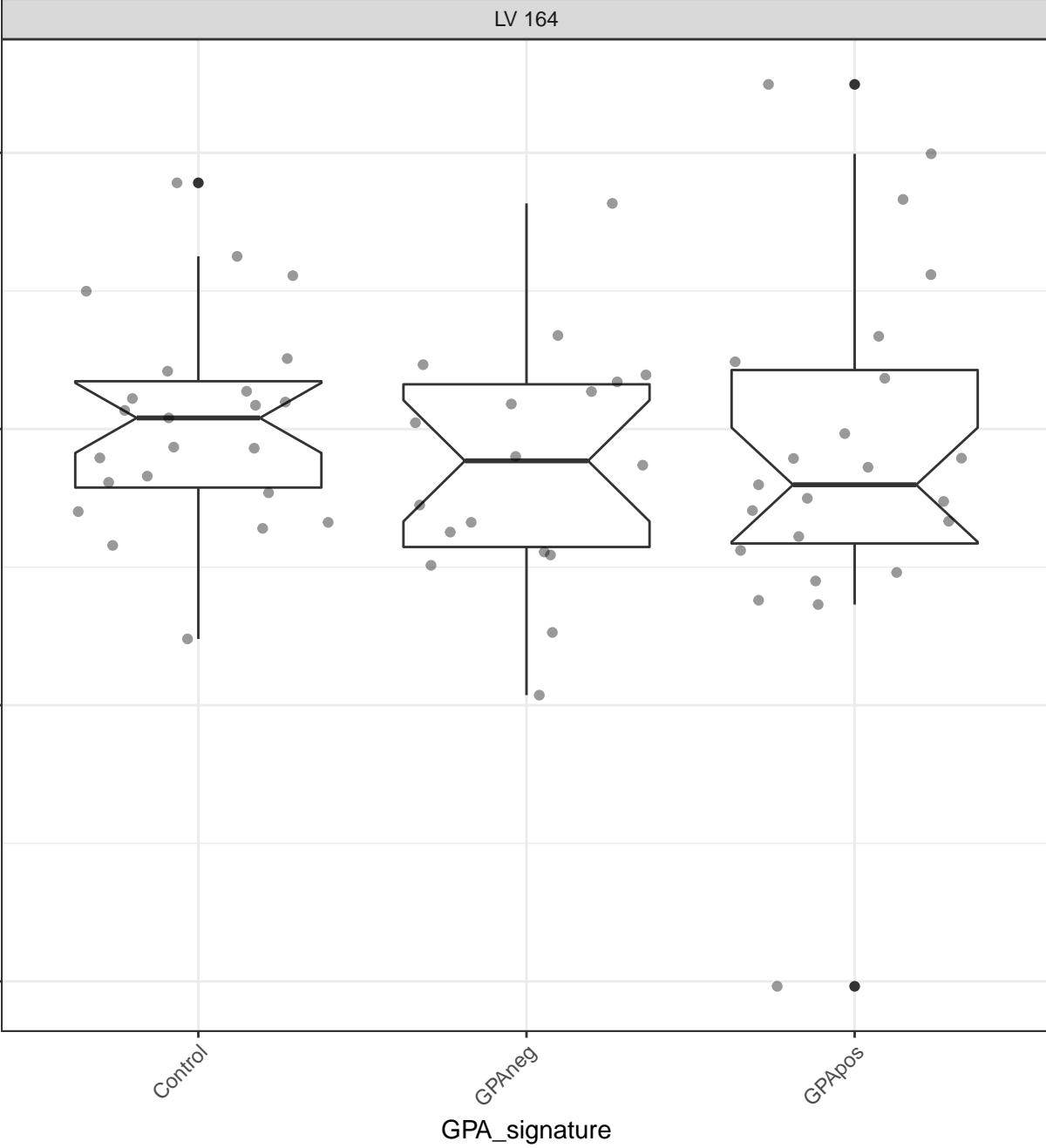
-0.10

Control

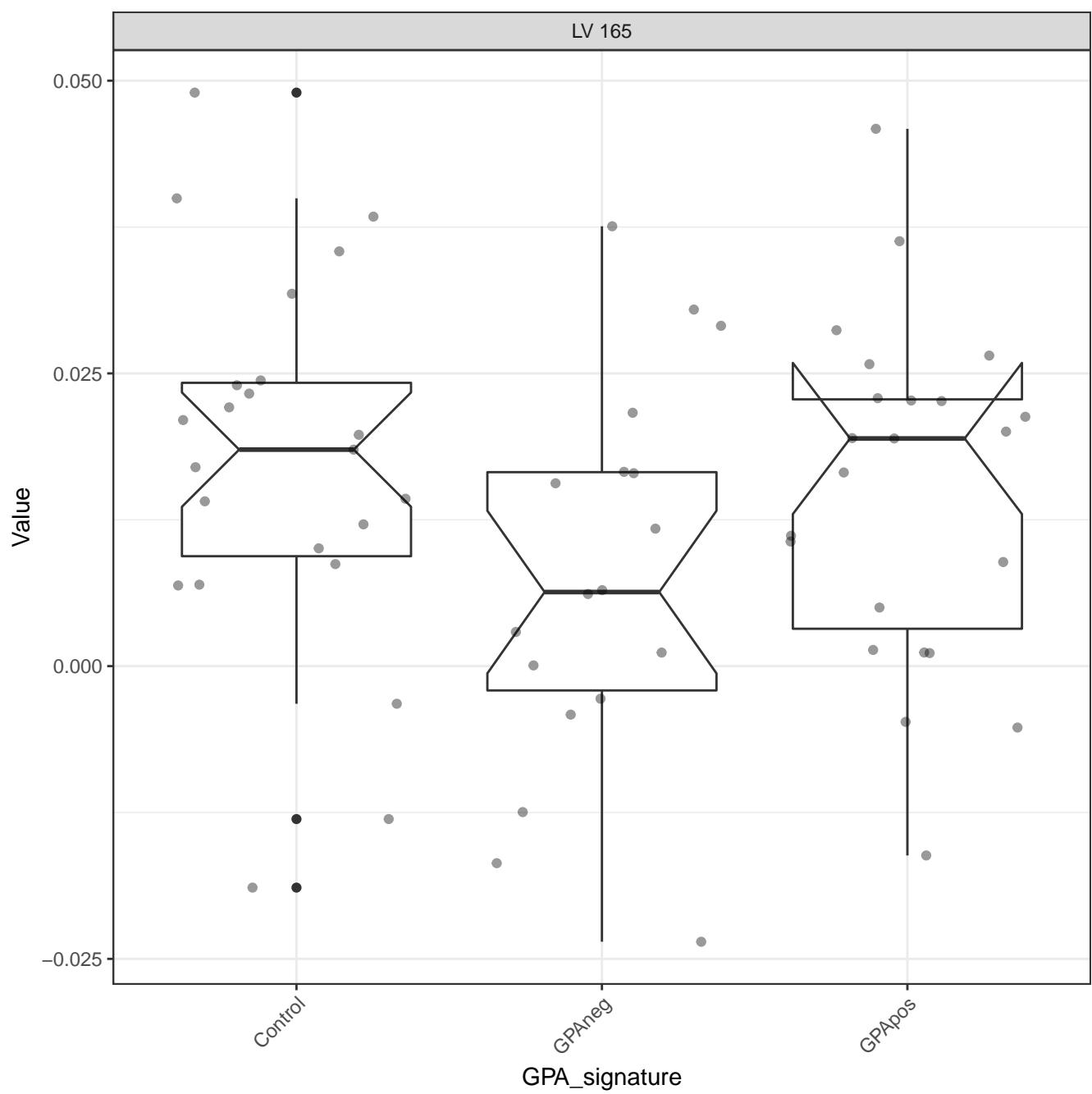
GPAneg

GPApos

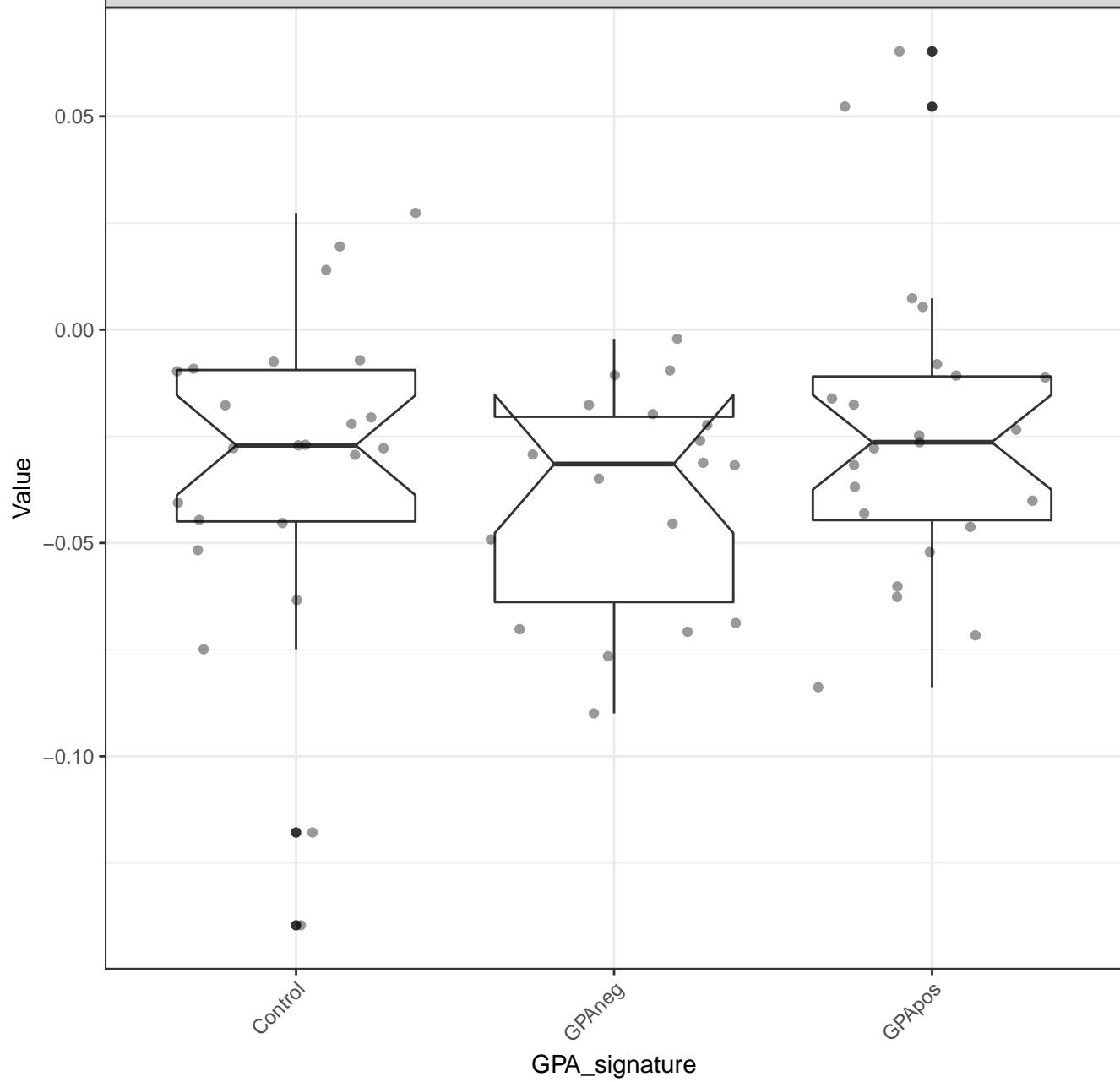
GPA\_signature

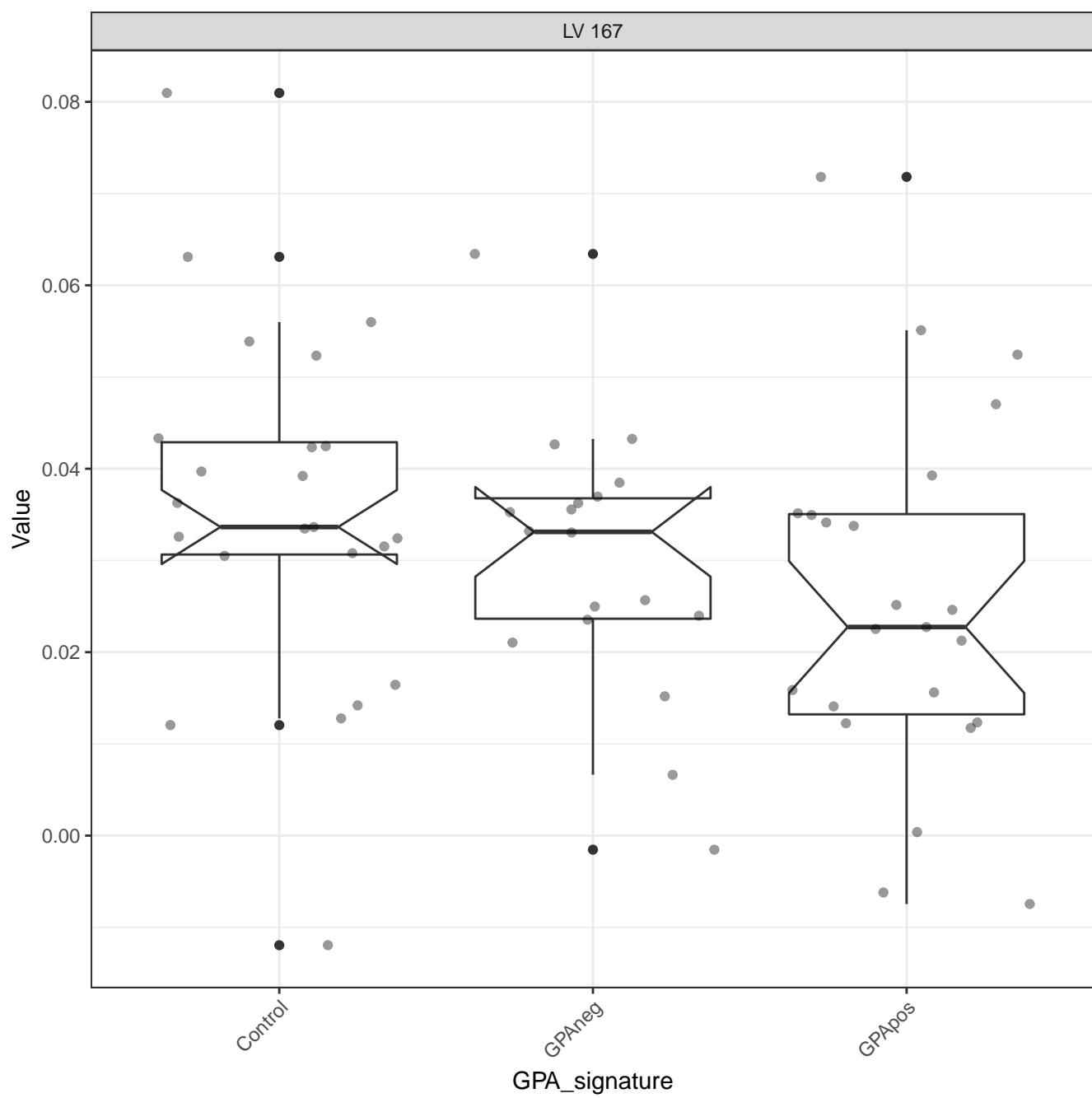


LV 165

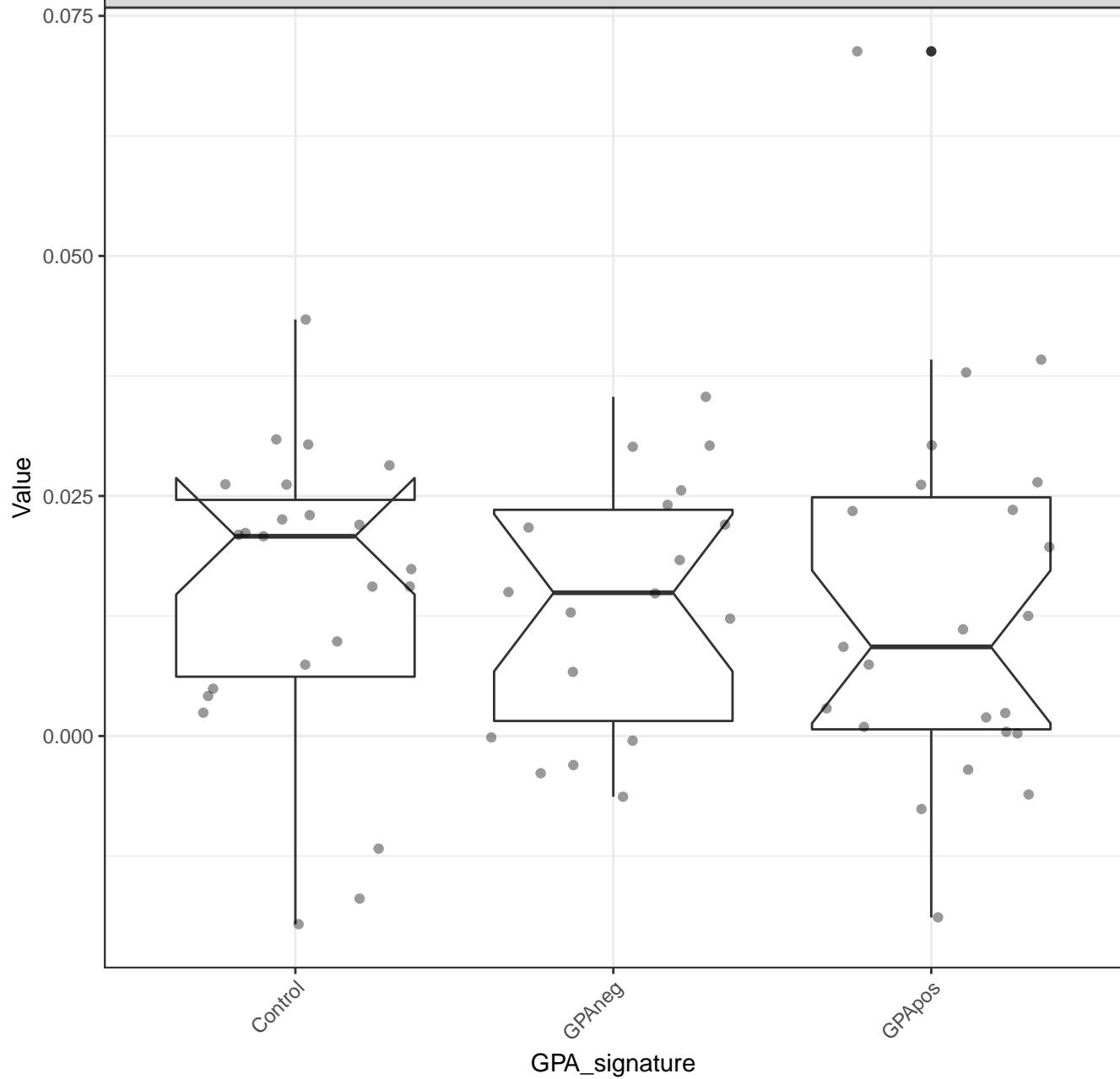


## 166,REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES

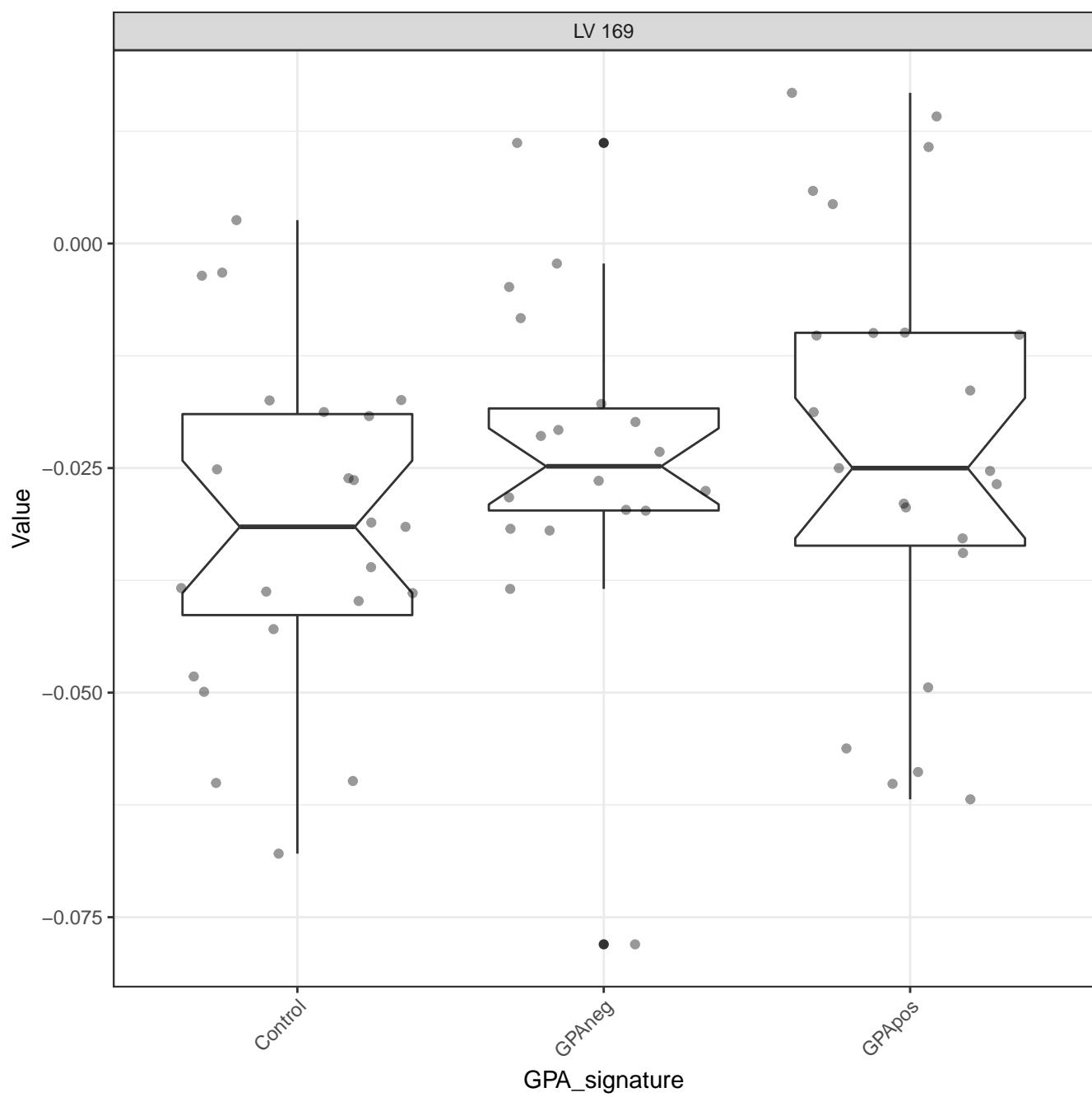




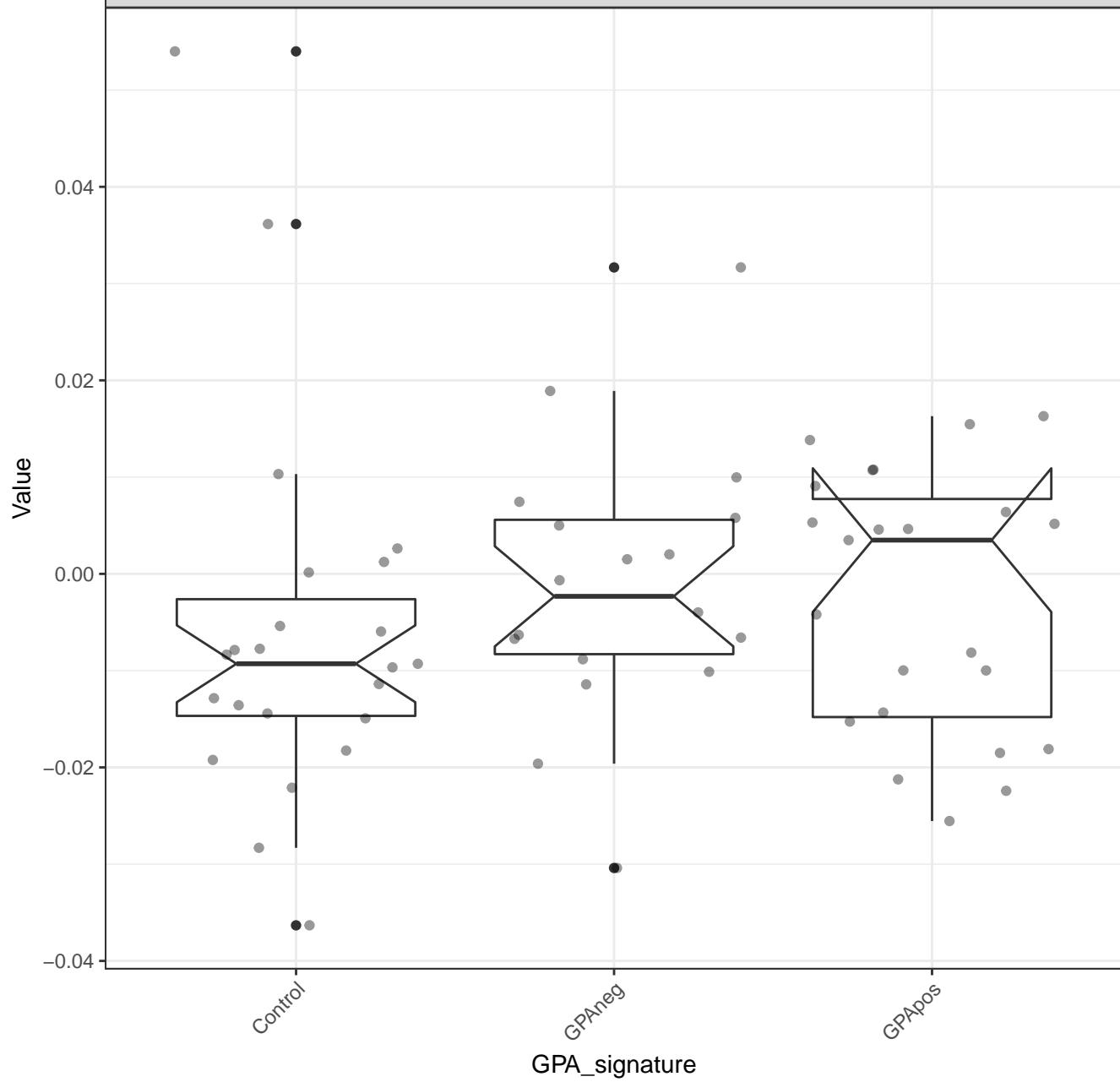
LV 168



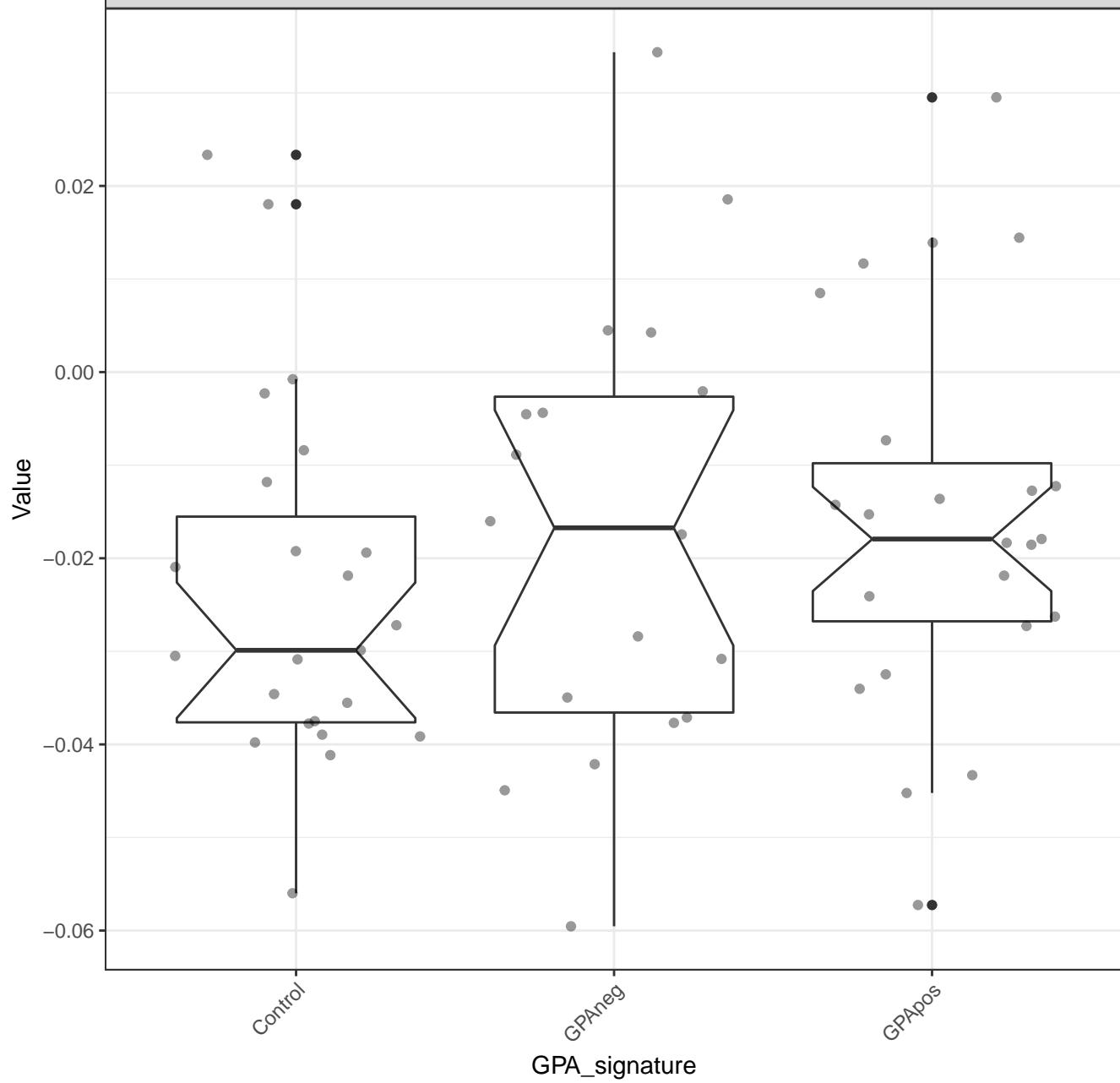
LV 169



LV 170



## 171,KEGG\_FATTY\_ACID\_METABOLISM



## 172,DMAP\_ERY4

Value

0.3

0.2

0.1

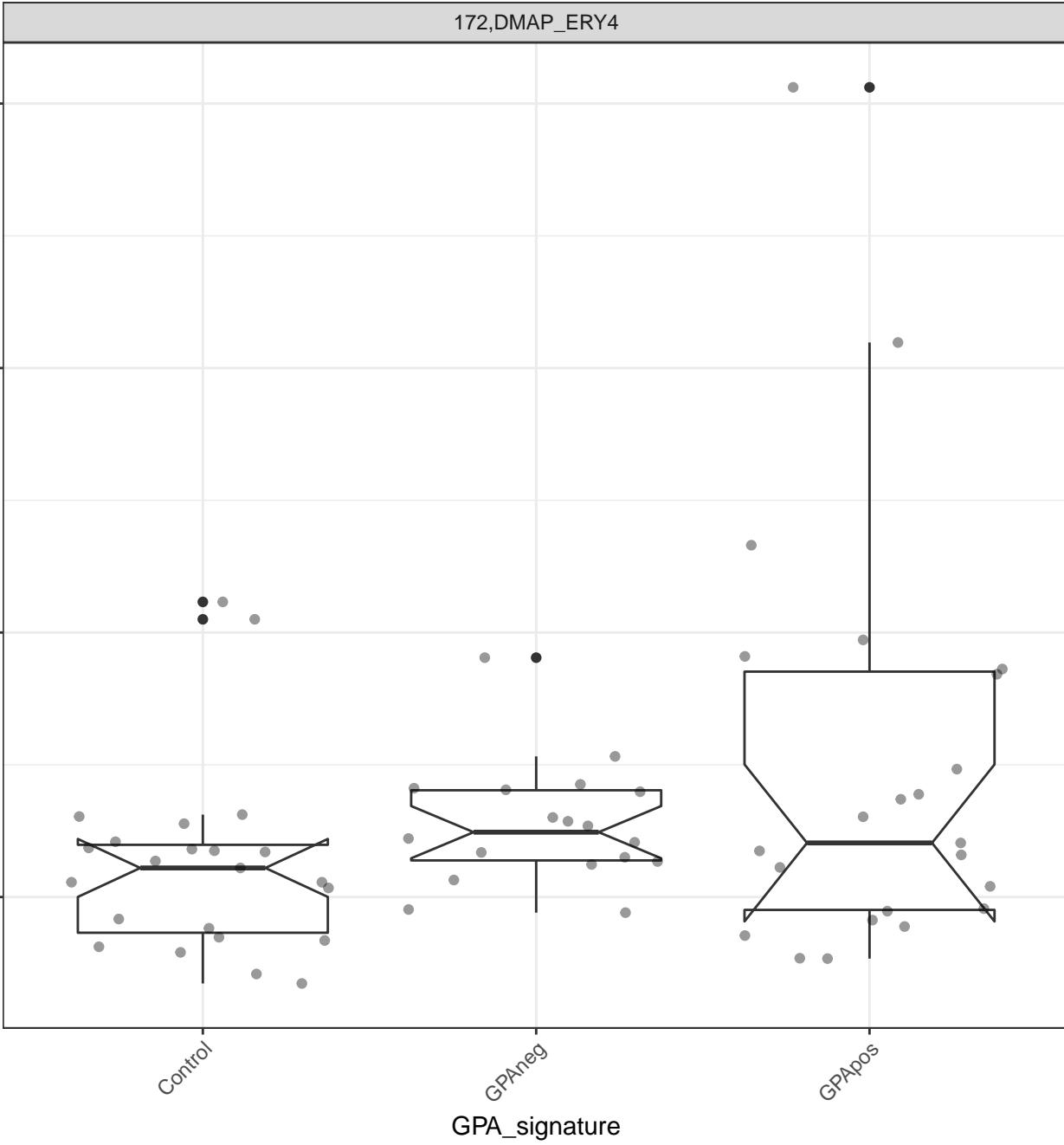
0.0

Control

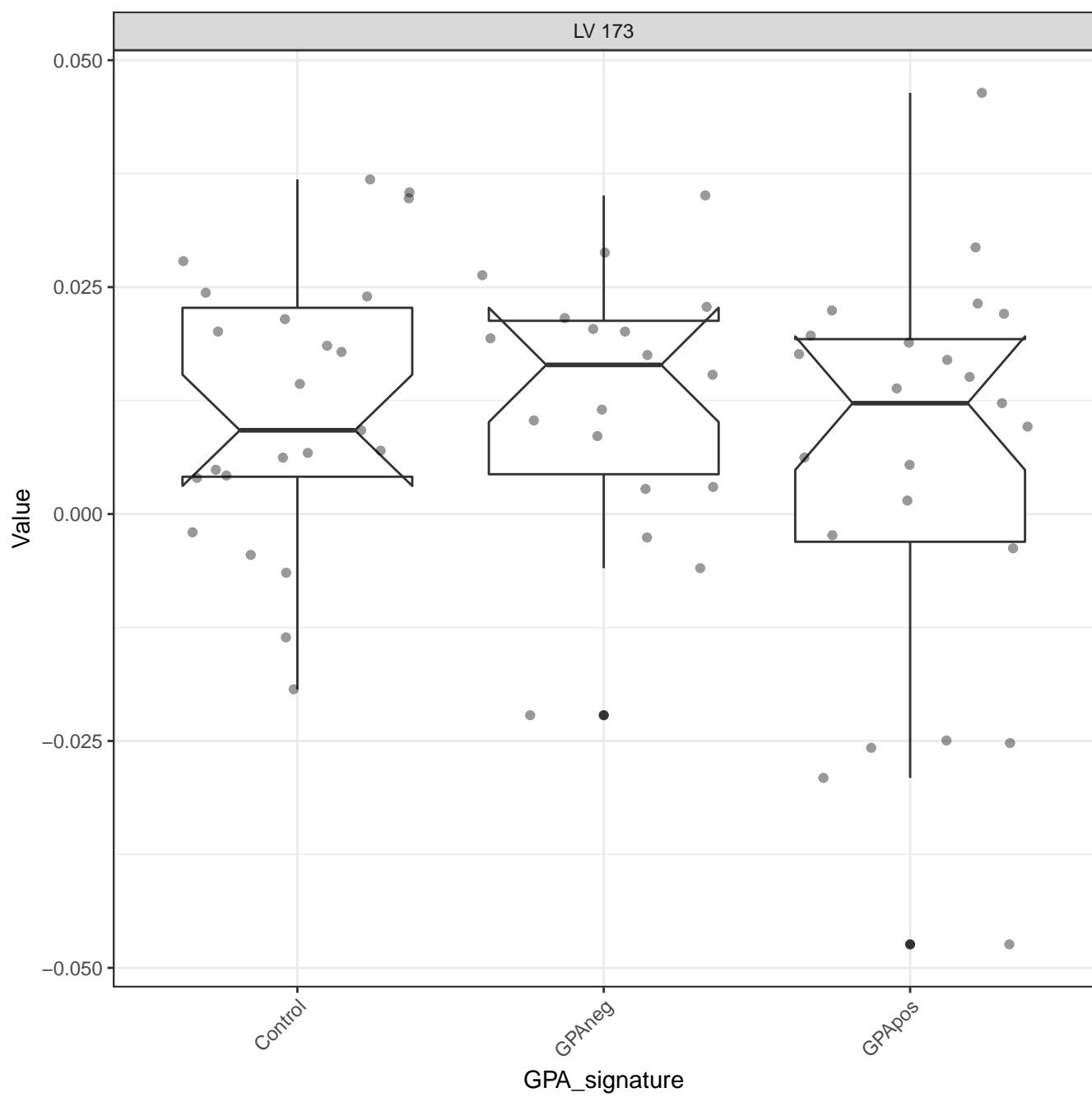
GPAneg

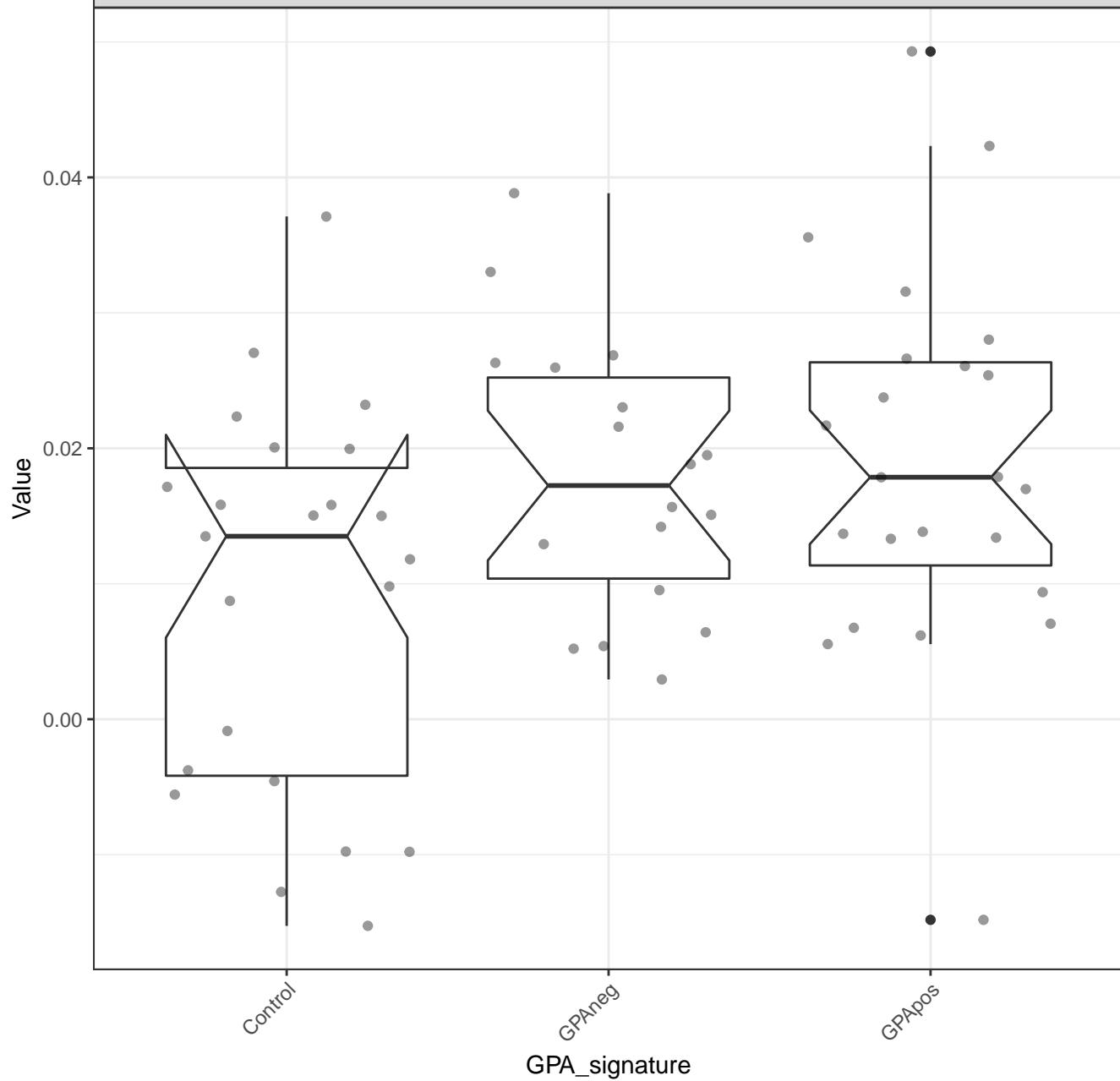
GPAPos

GPA\_signature



LV 173





LV 175

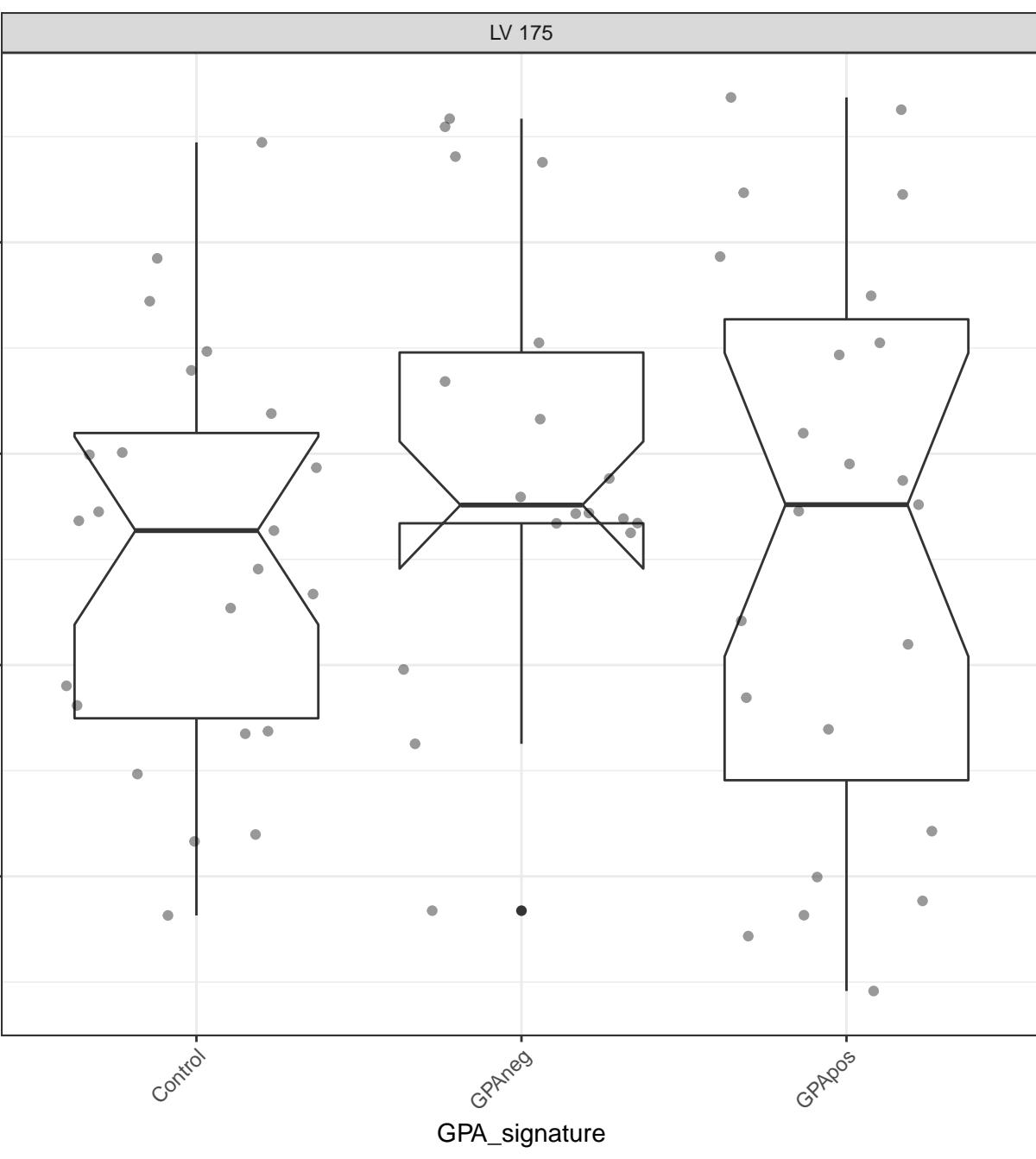
Value

GPA\_signature

Control

GPAneg

GPApos



# 176,KEGG\_FRUCTOSE\_AND\_MANNOSE\_METABOLISM

Value

0.05

0.00

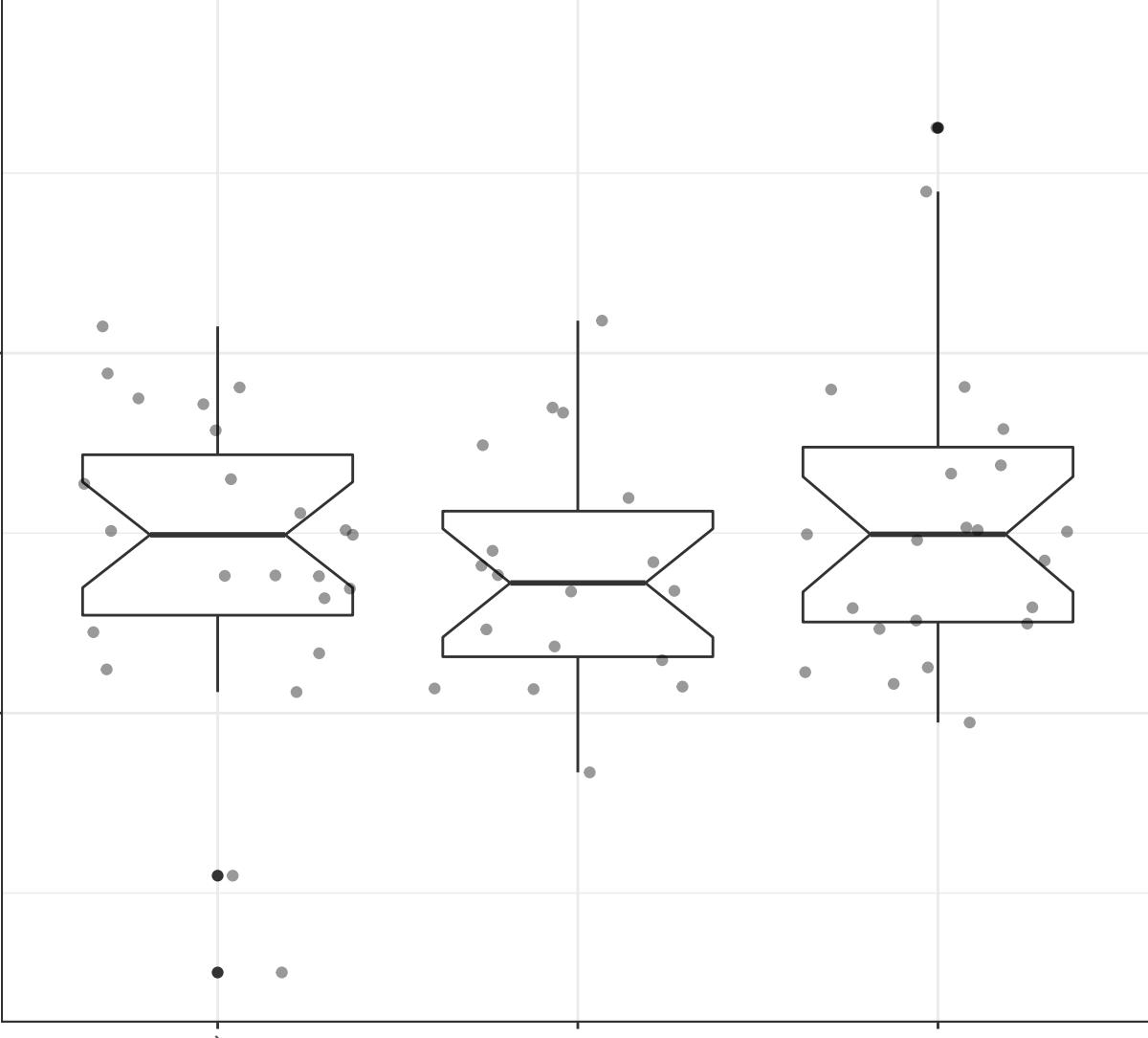
-0.05

Control

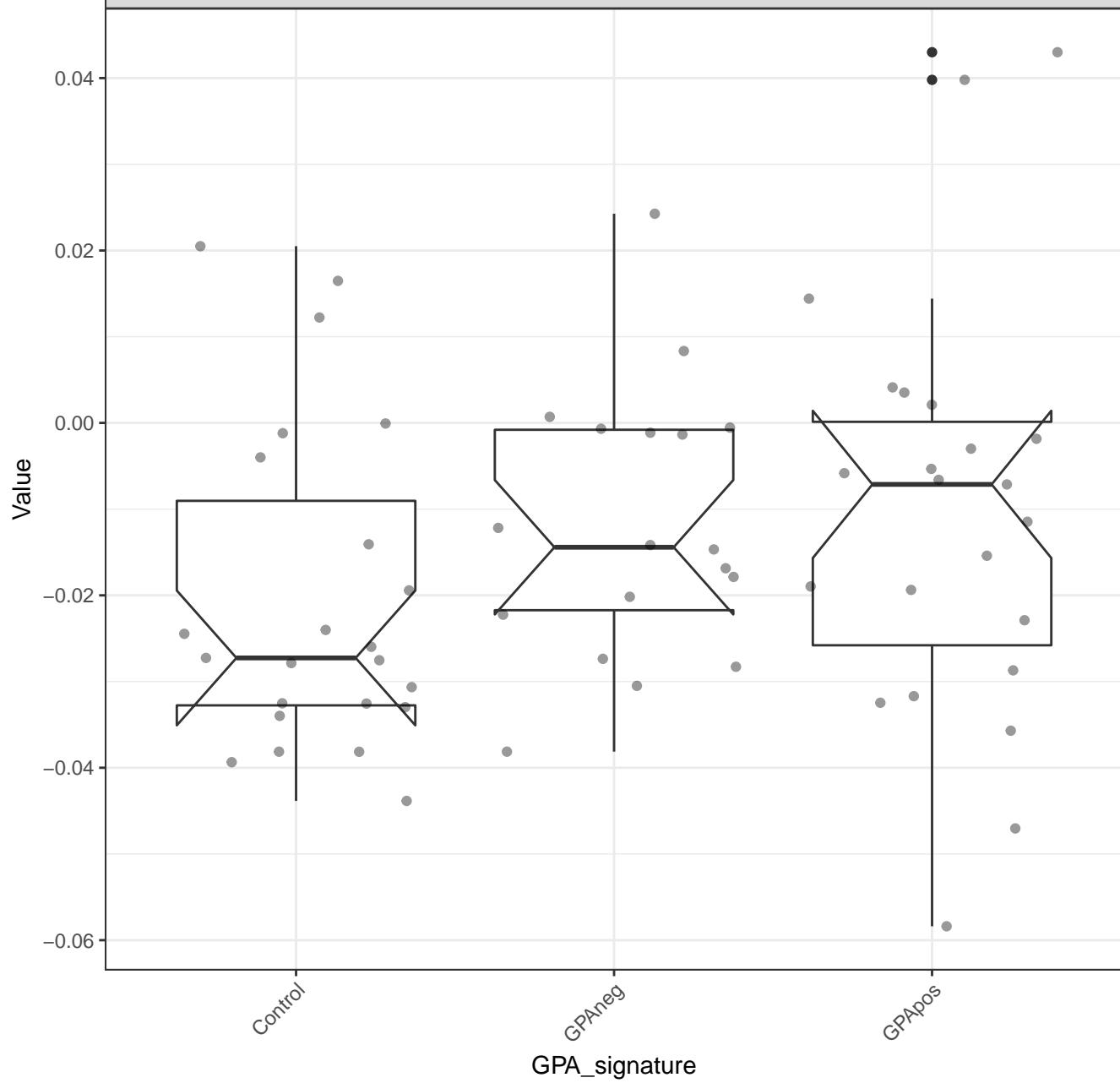
GPAneg

GPApos

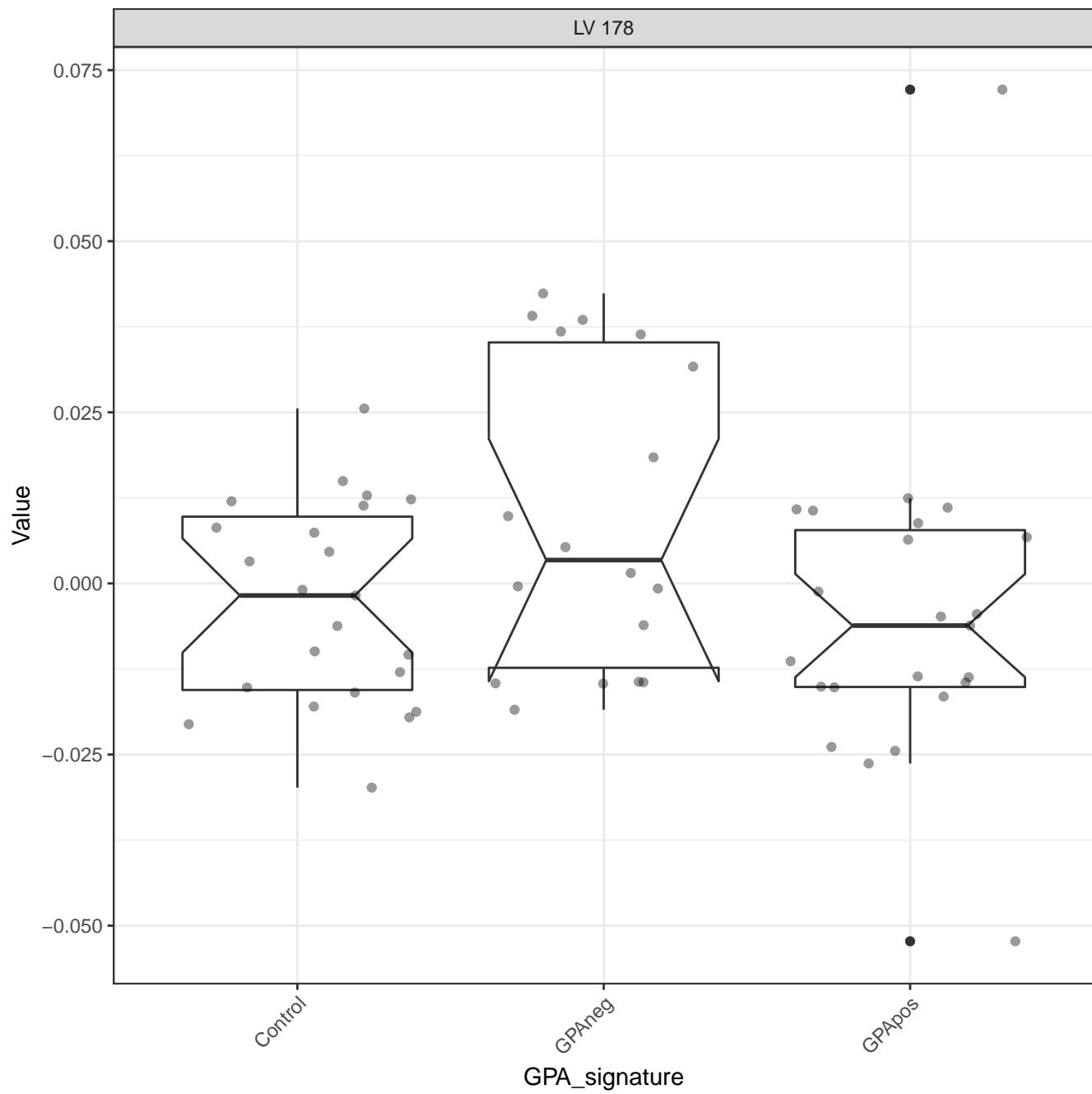
GPA\_signature



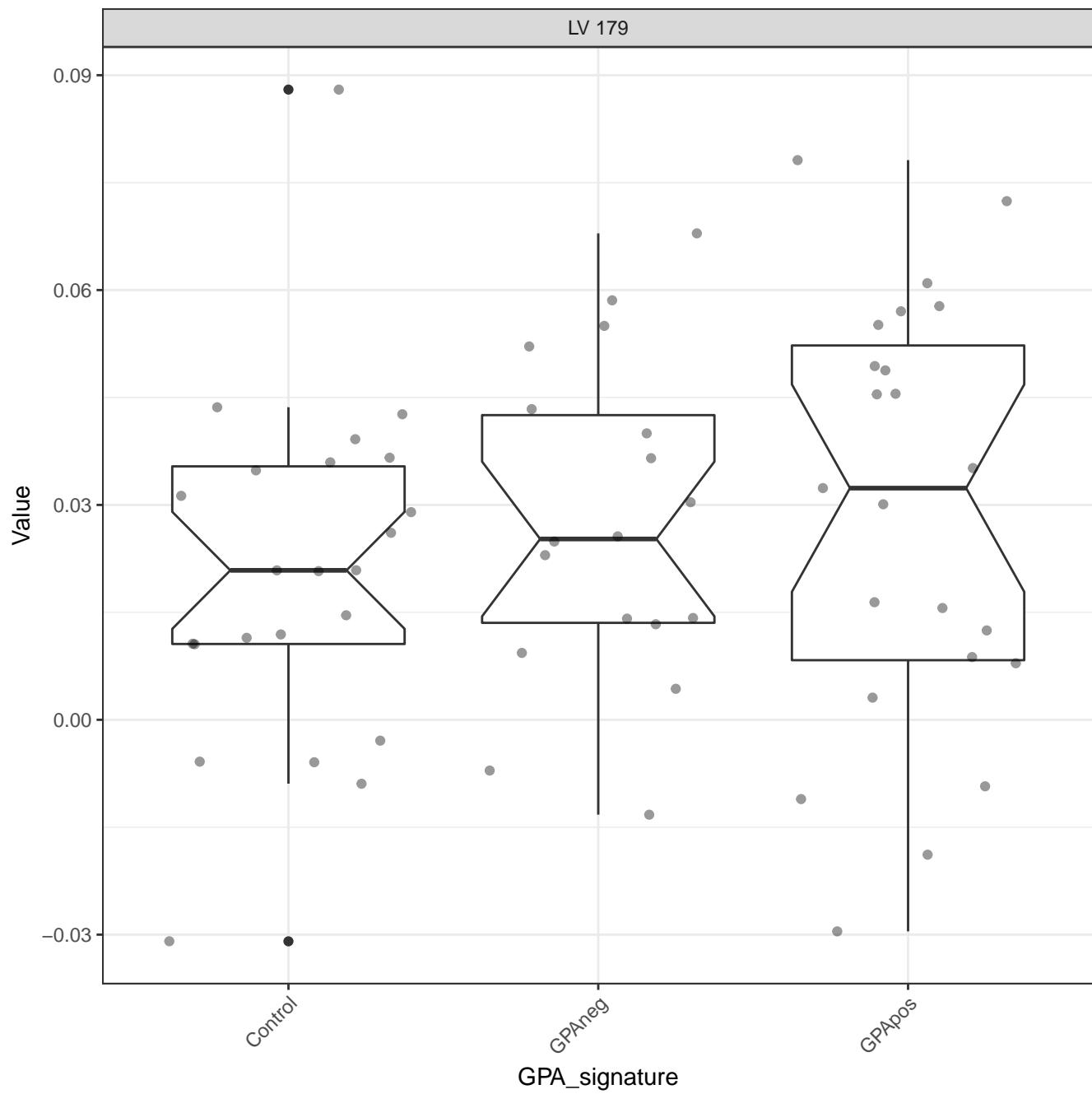
## 177,SIG\_CHEMOTAXIS

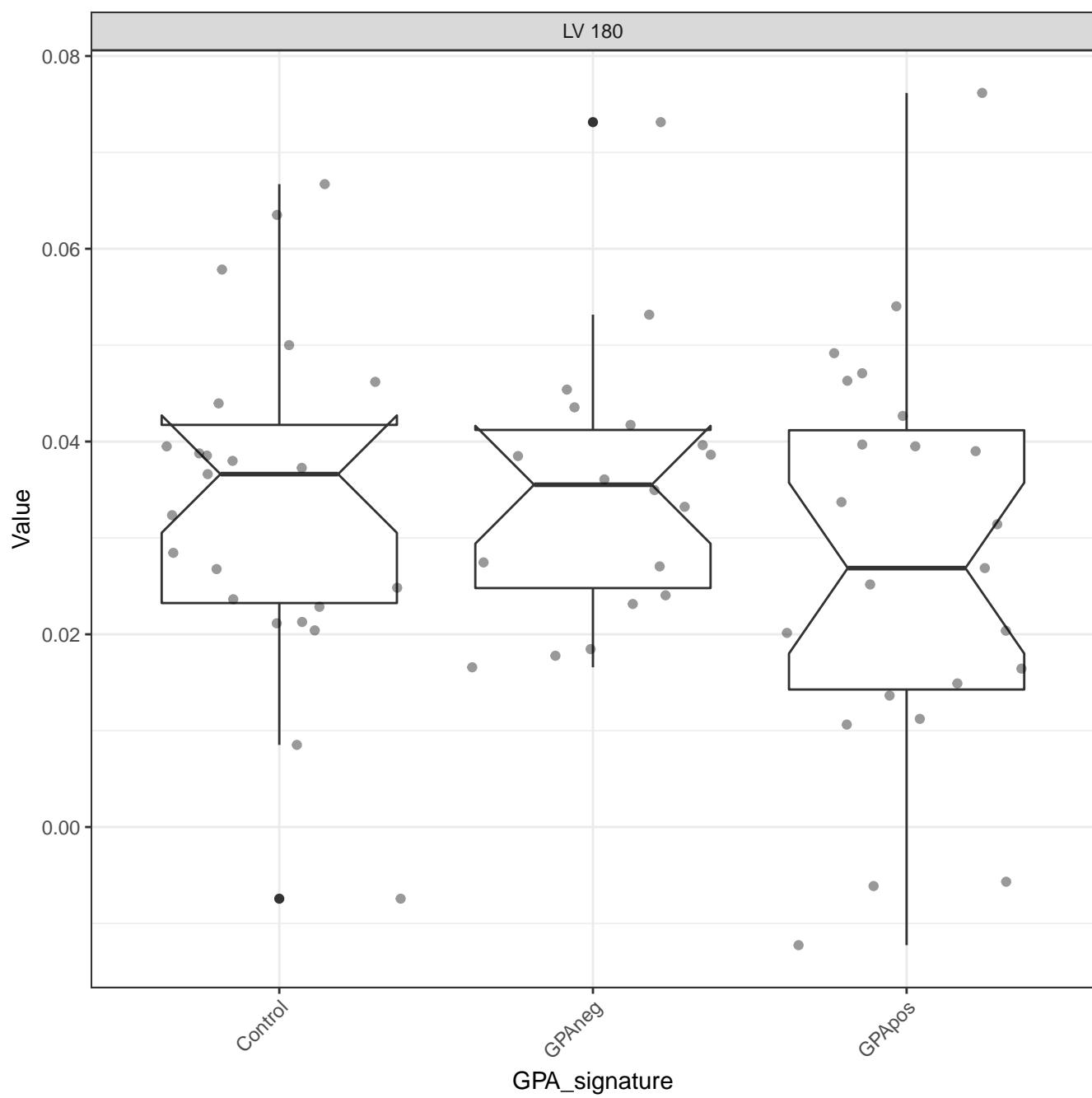


LV 178

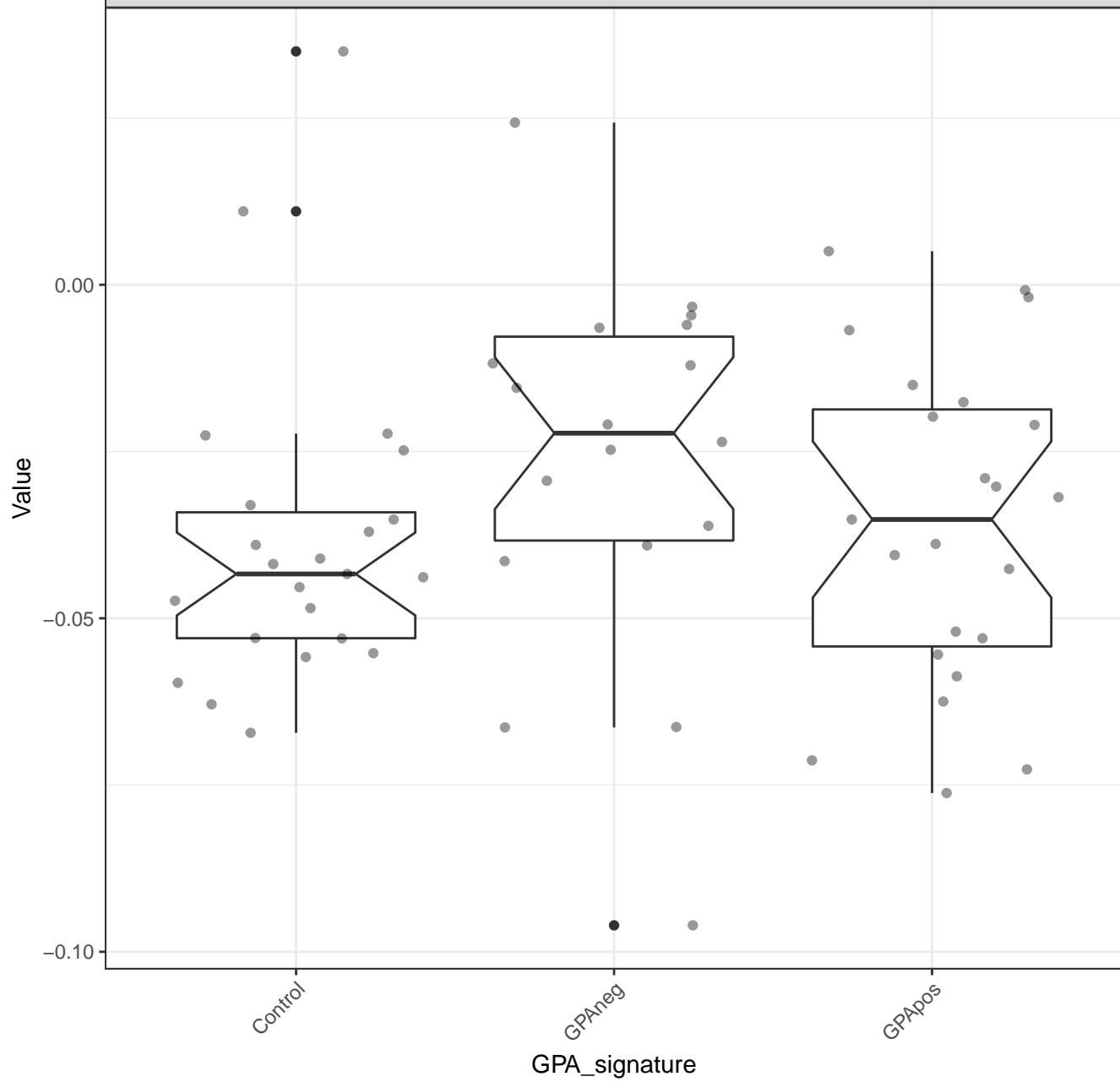


LV 179

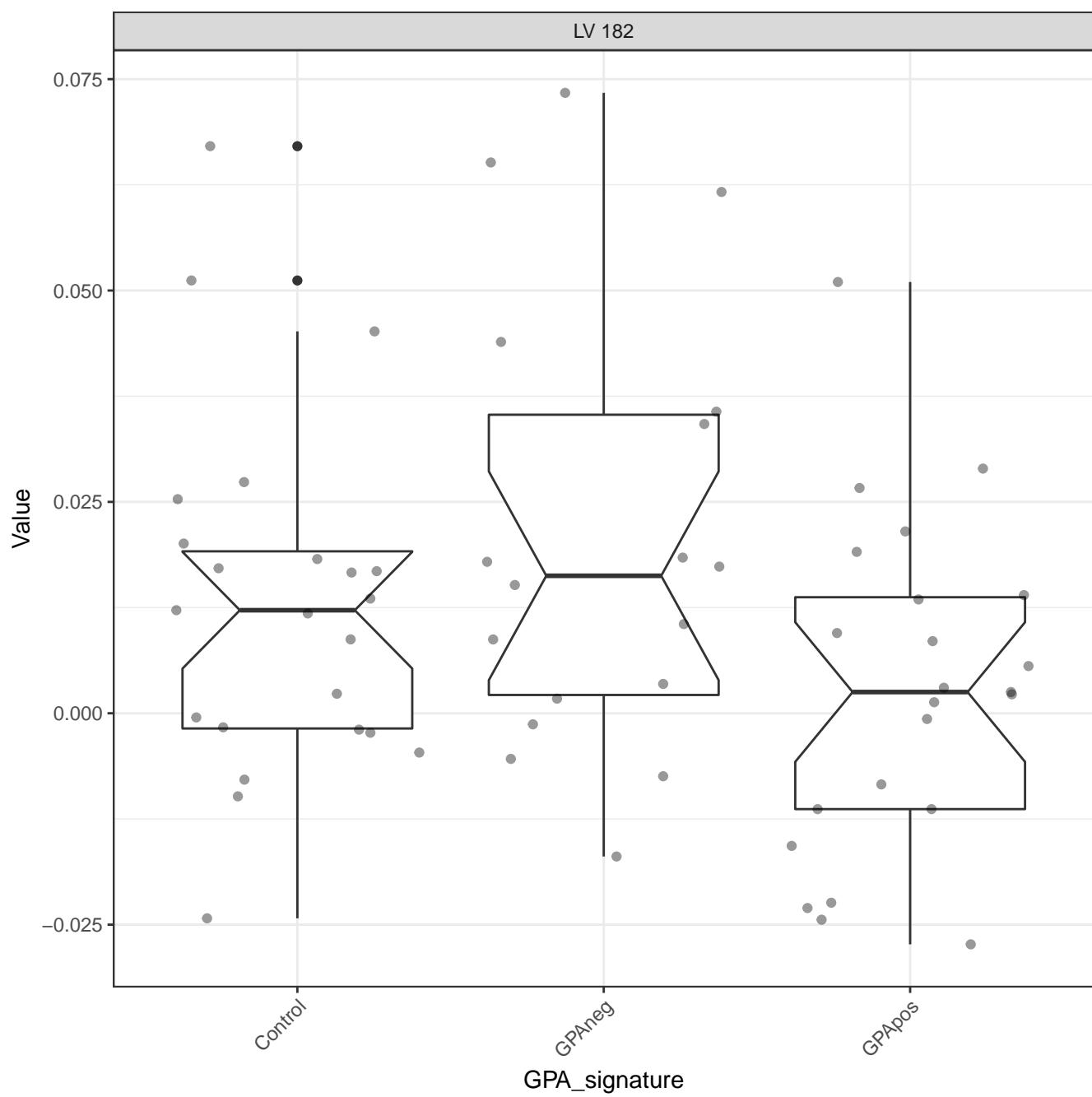




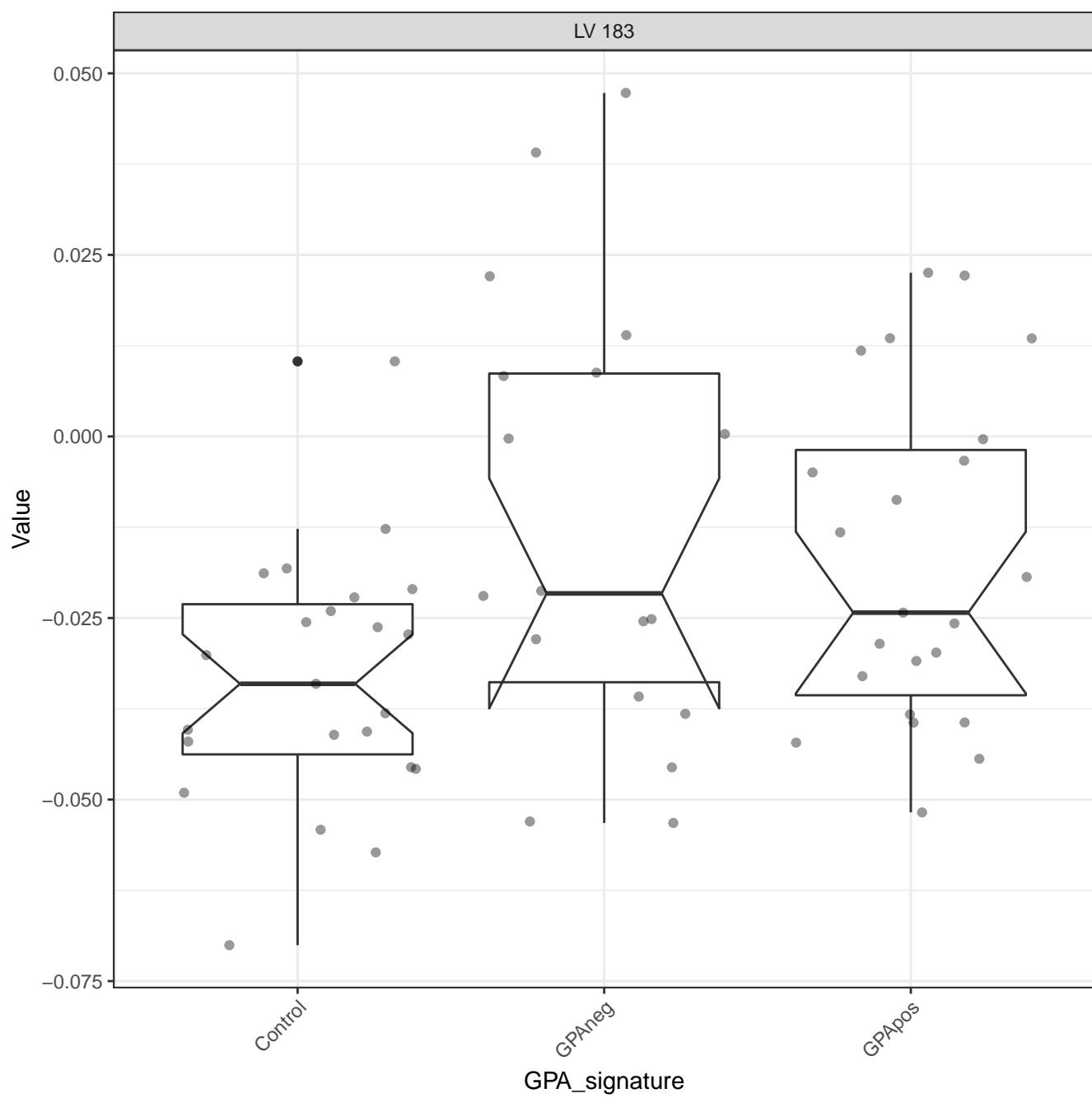
LV 181



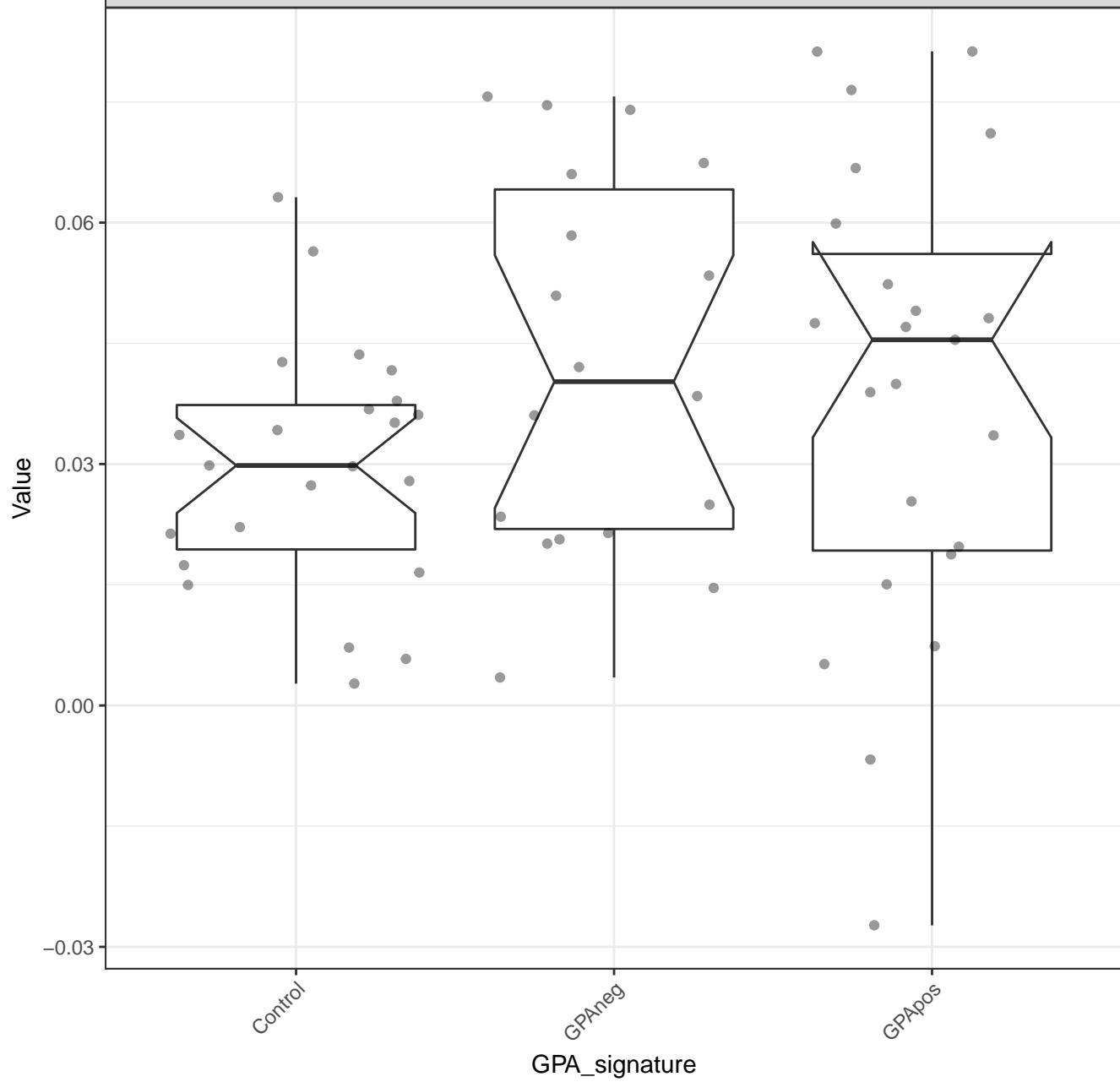
## LV 182



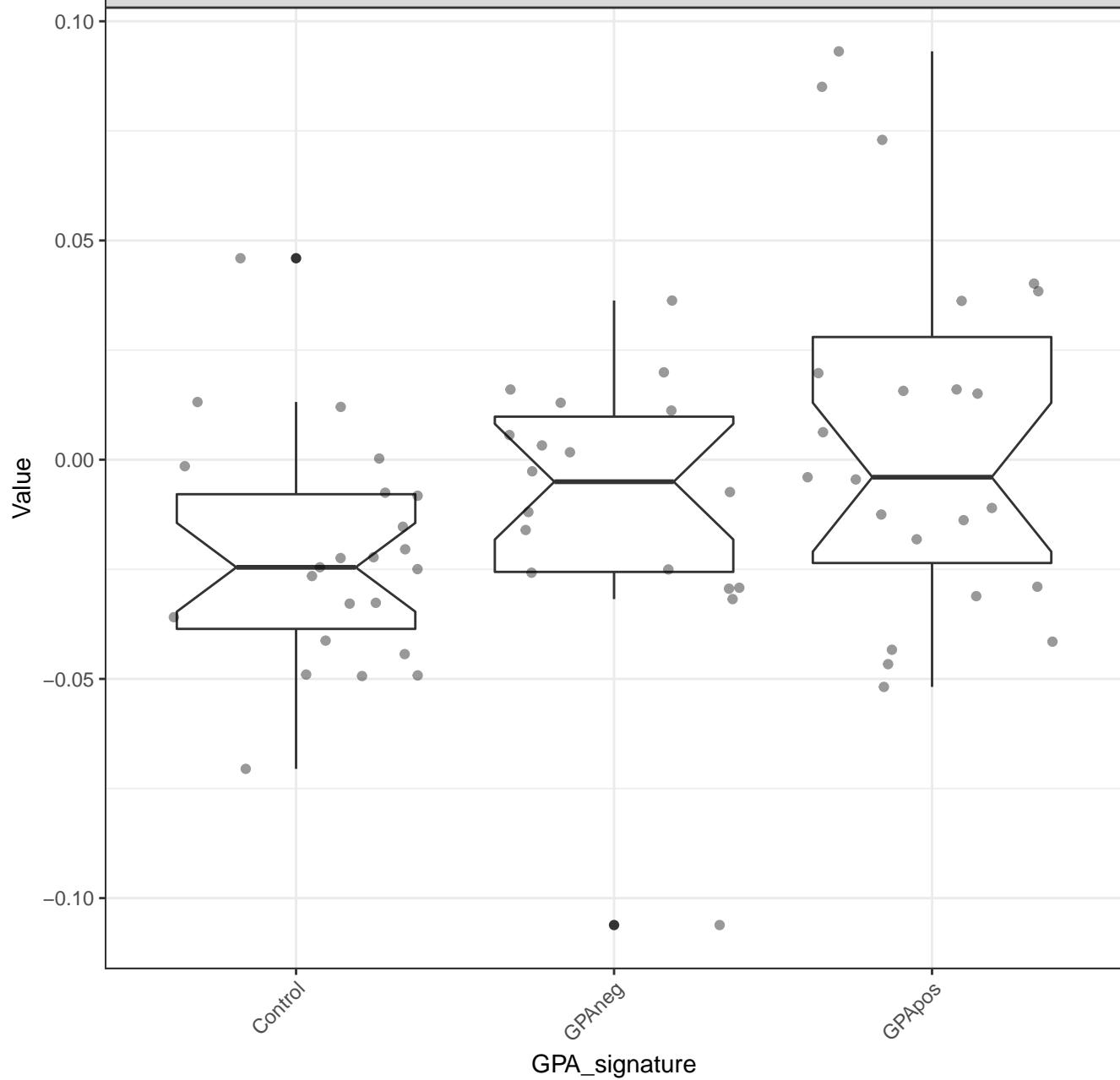
## LV 183



## LV 184



LV 185



Value

0.05

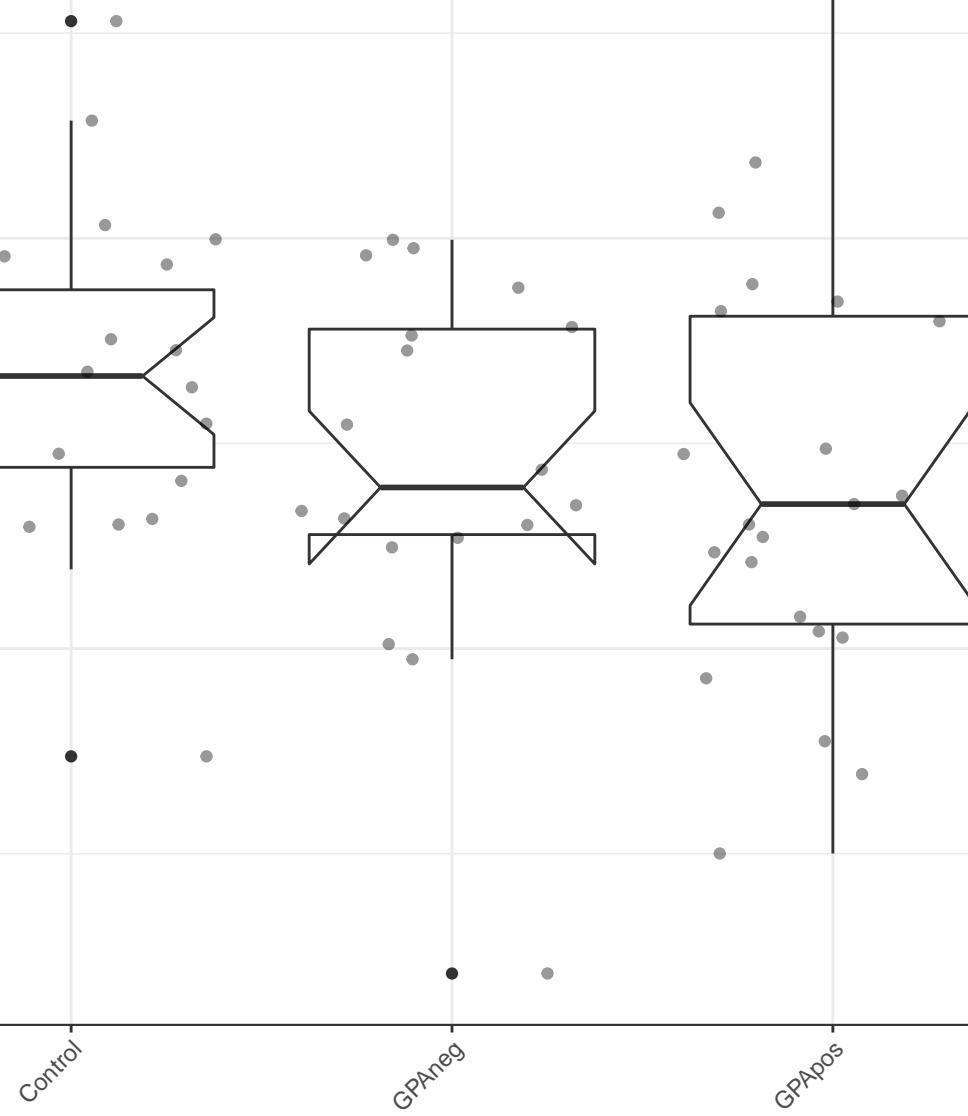
0.00

Control

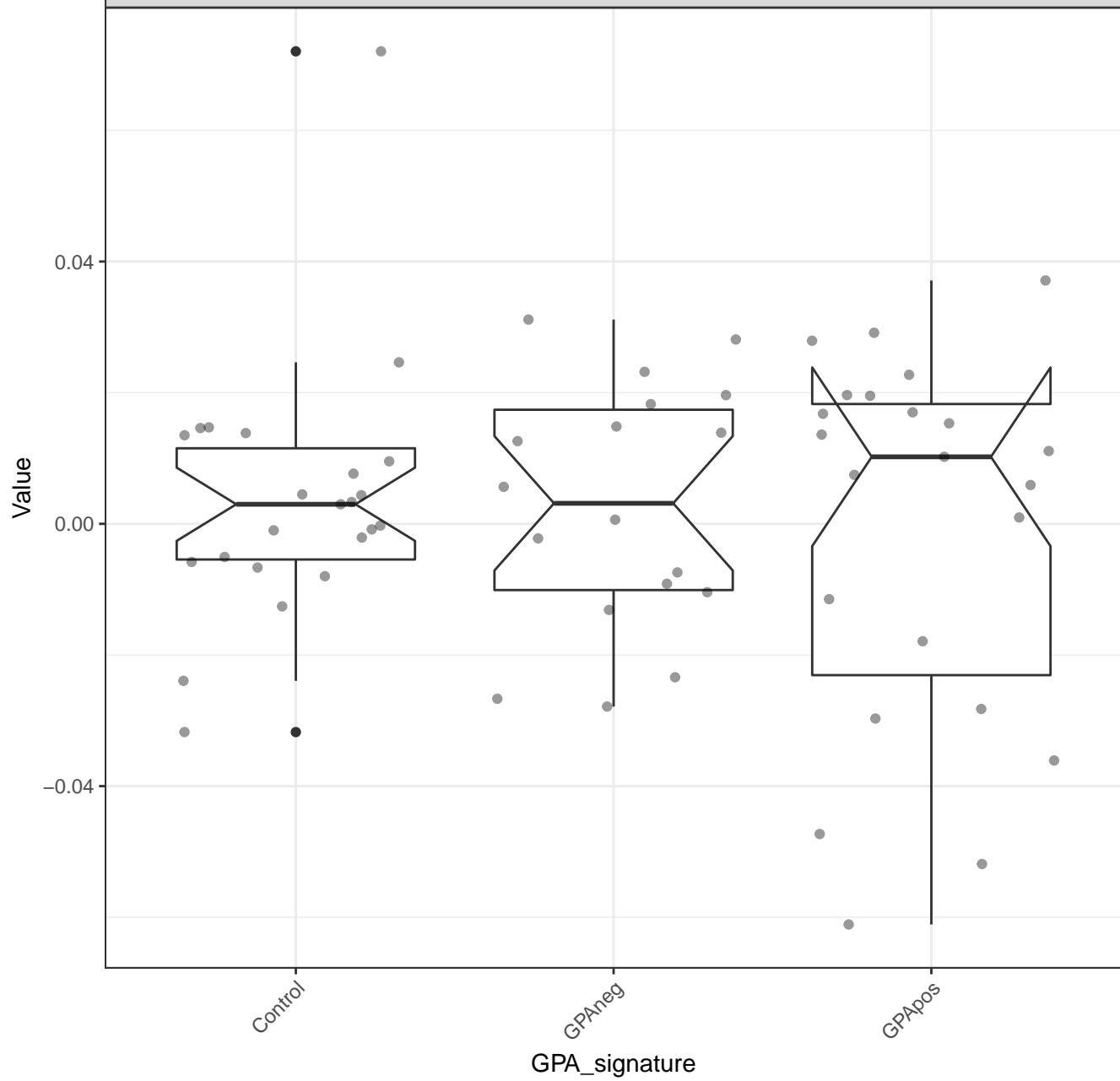
GPA\_signature

GPAneg

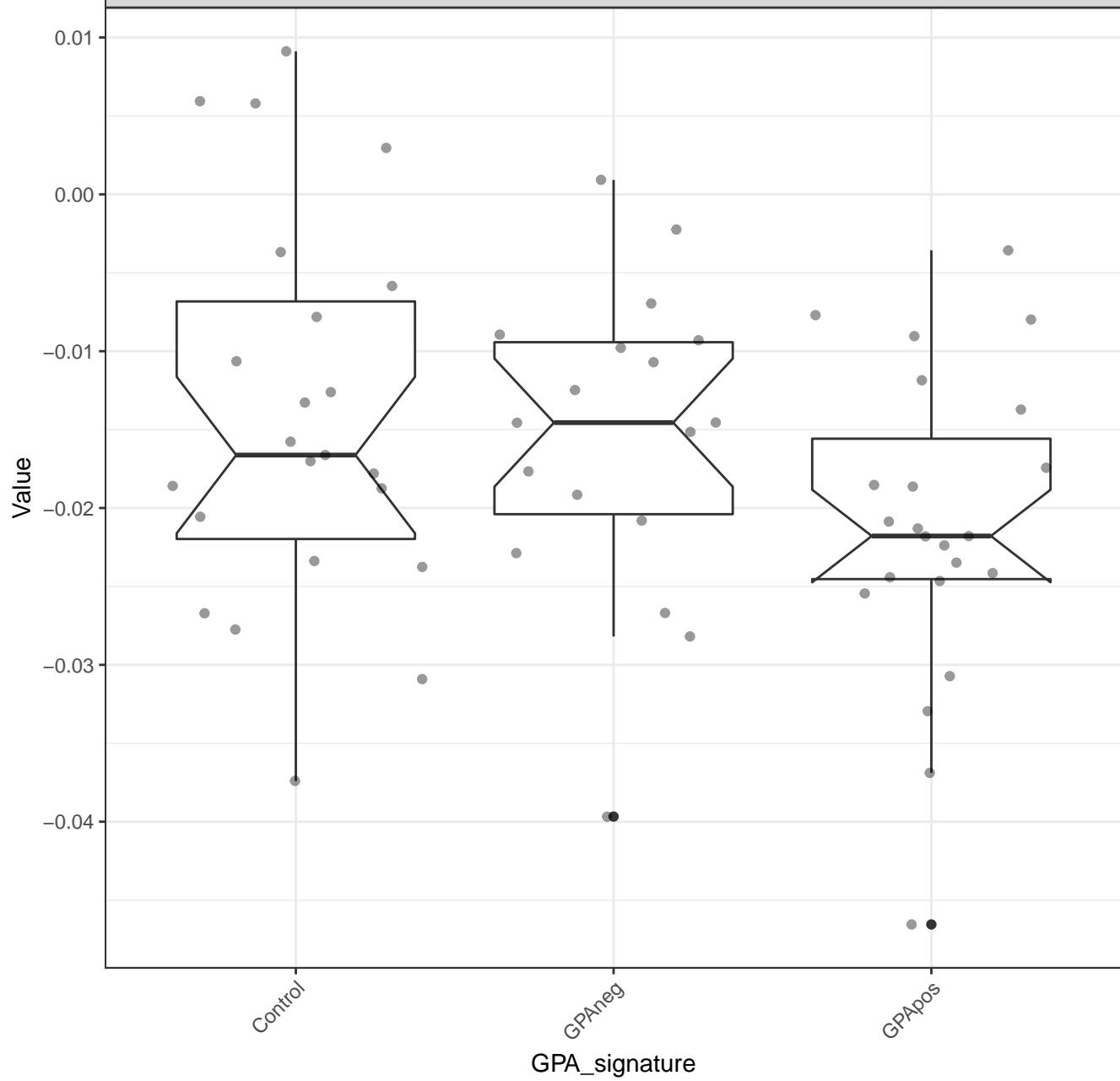
GPAPos



LV 187



LV 188



LV 189

Value

0.05

0.00

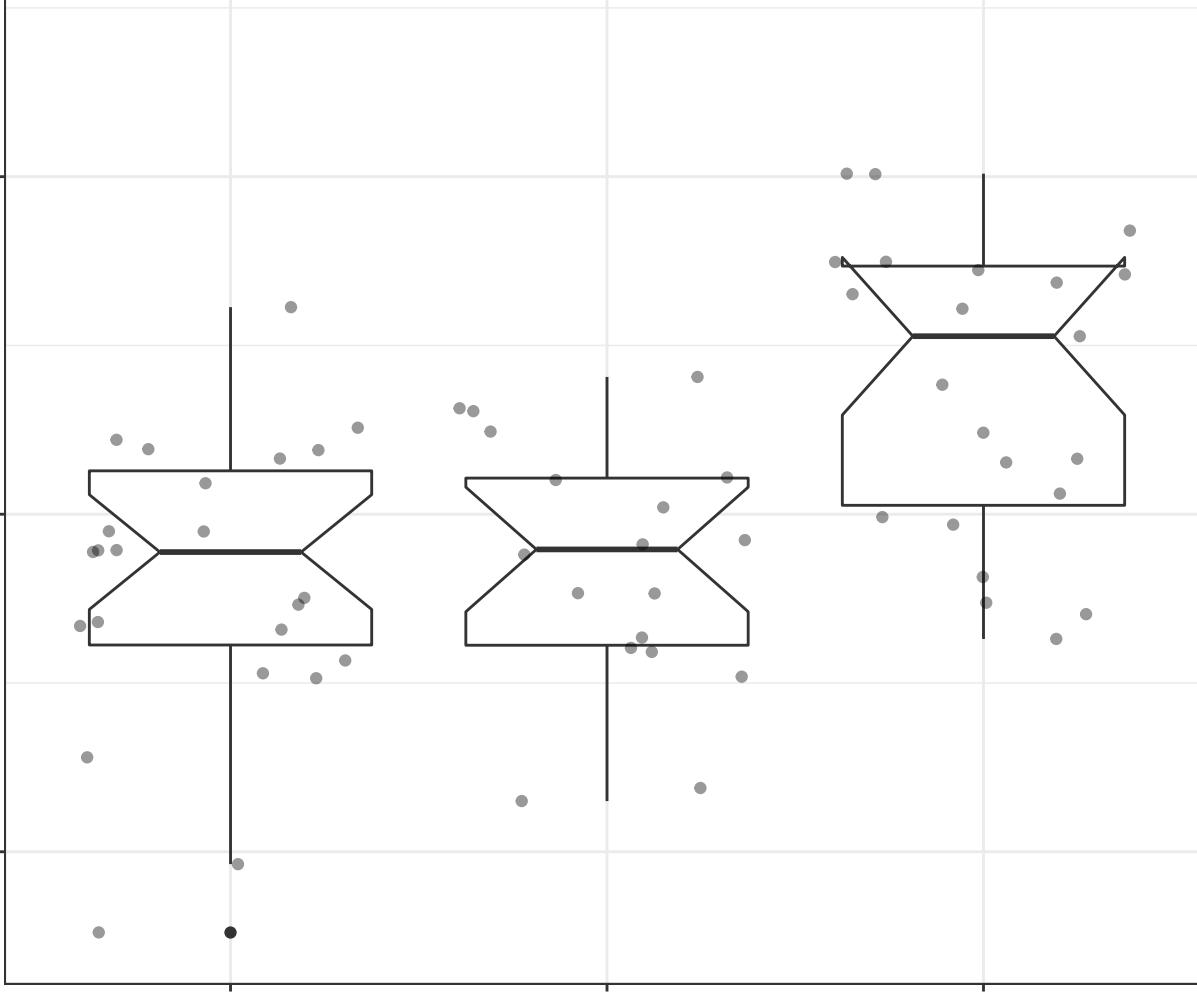
-0.05

Control

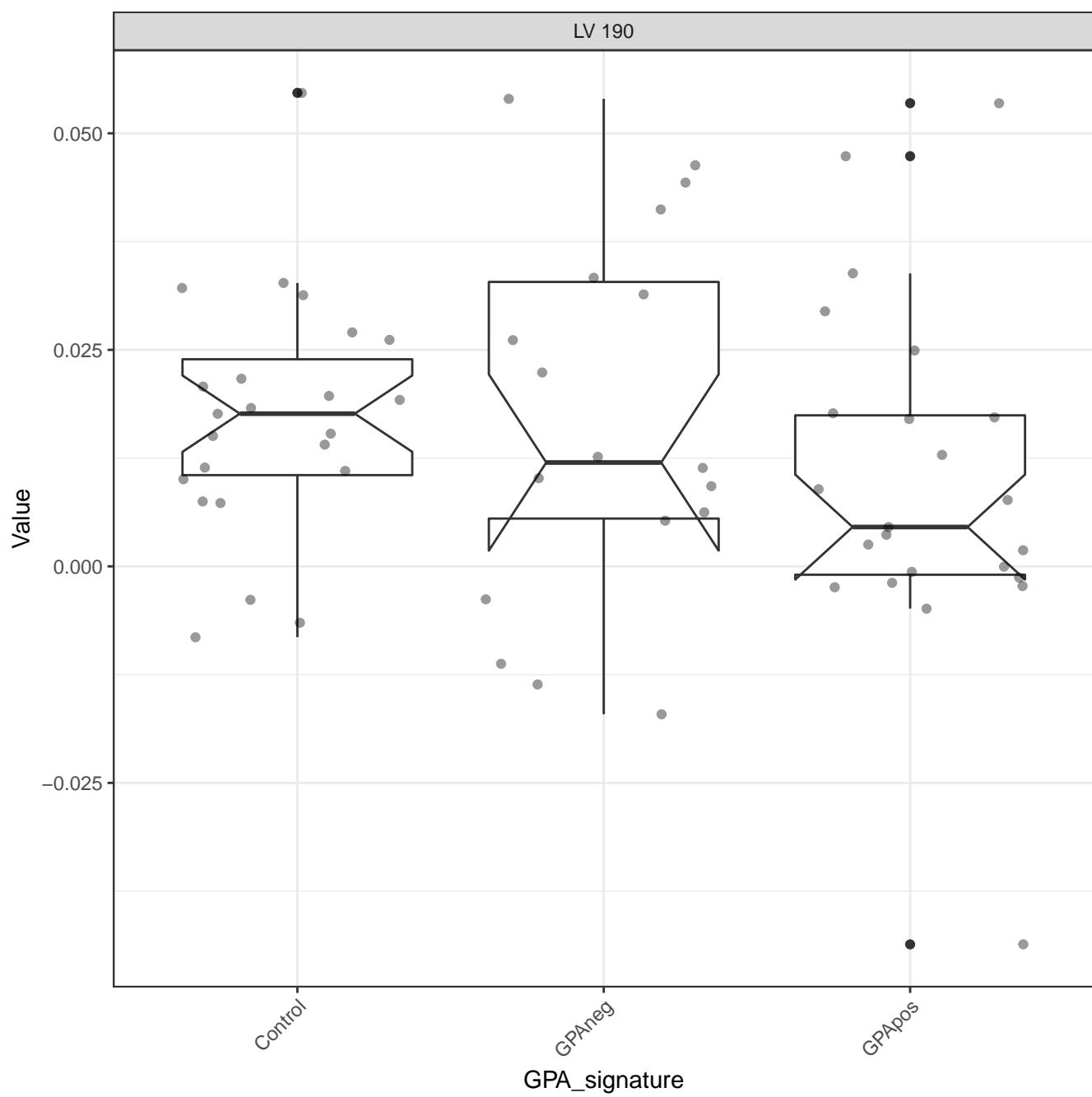
GPAneg

GPApos

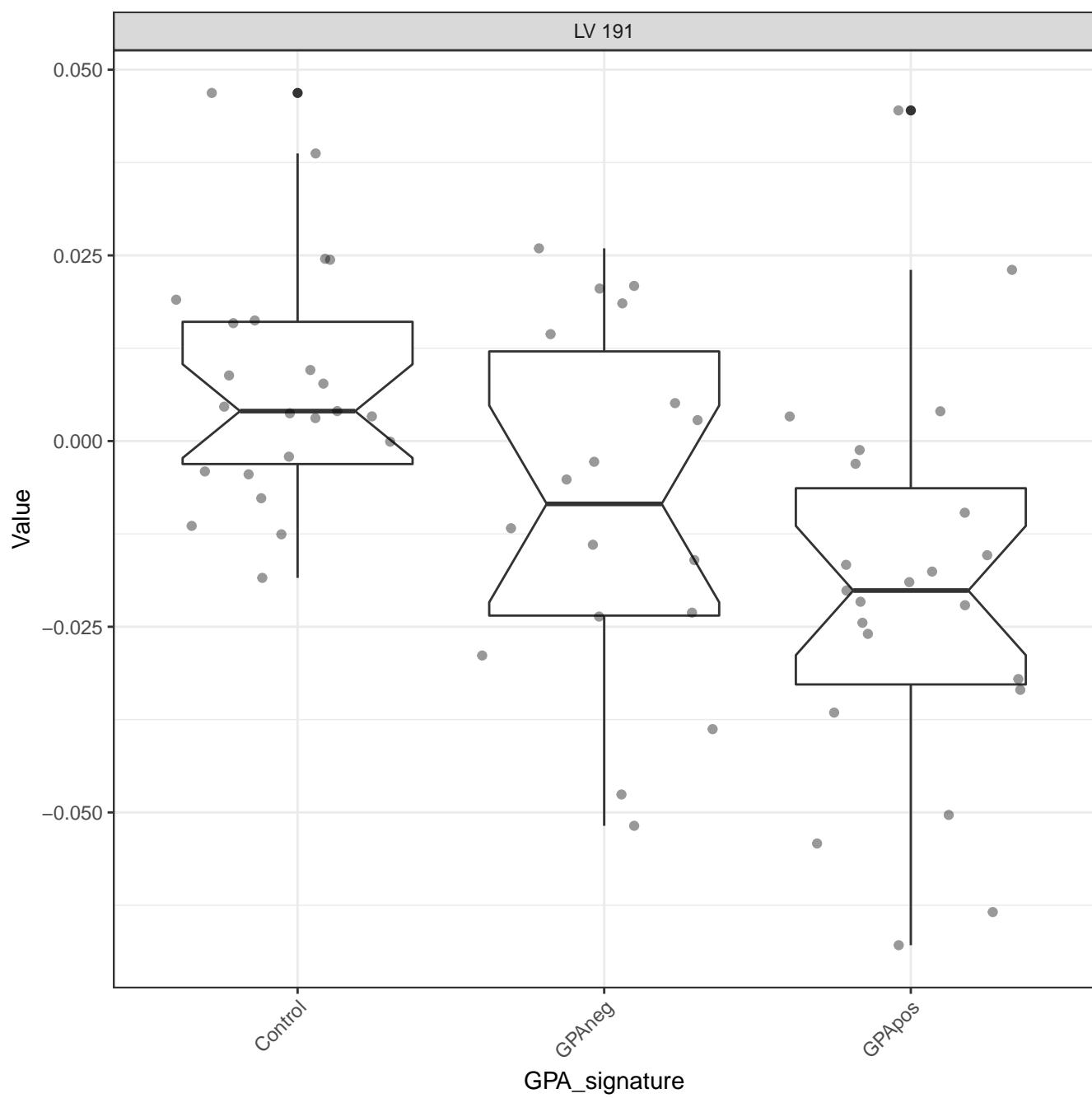
GPA\_signature

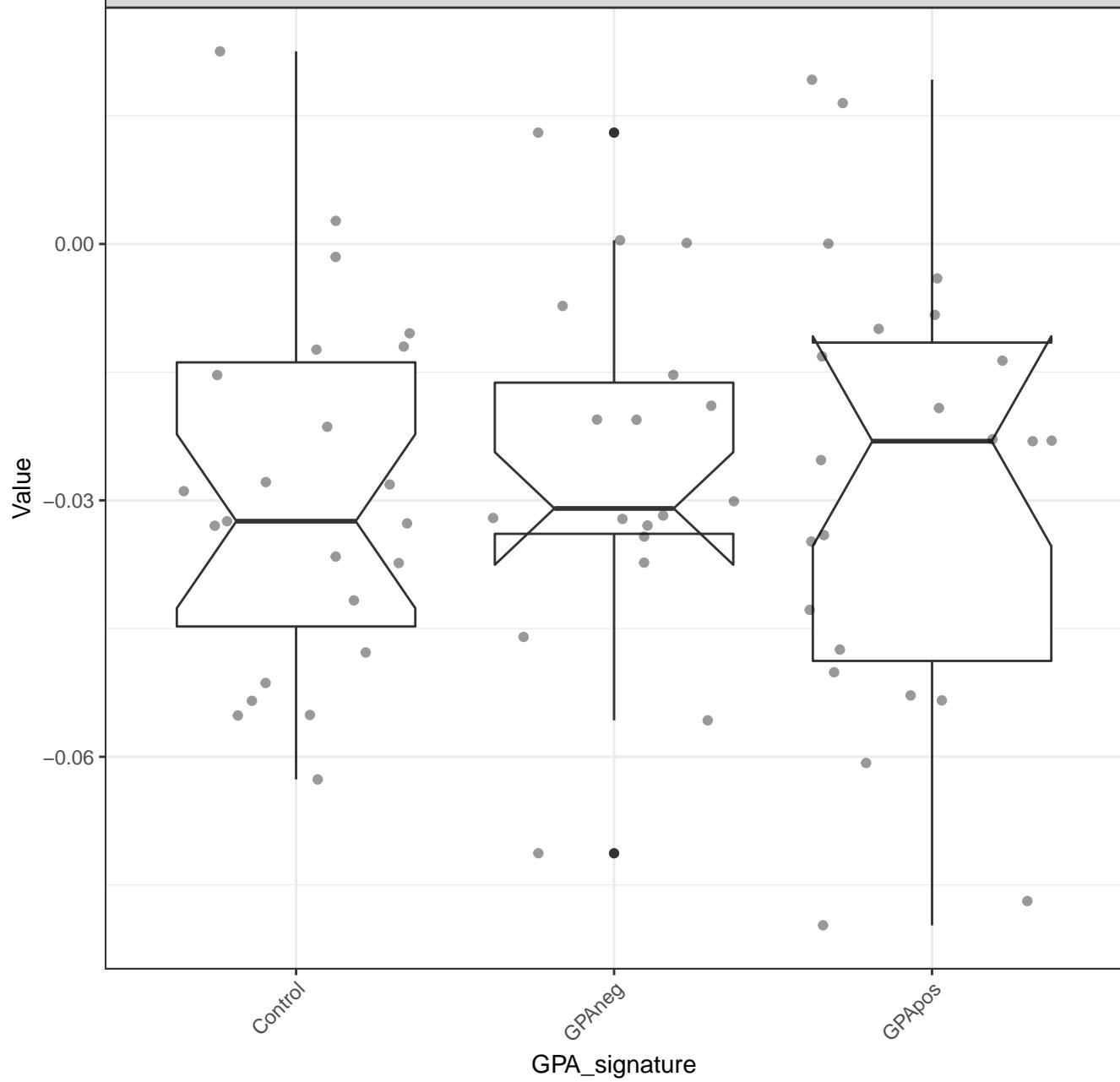


## LV 190

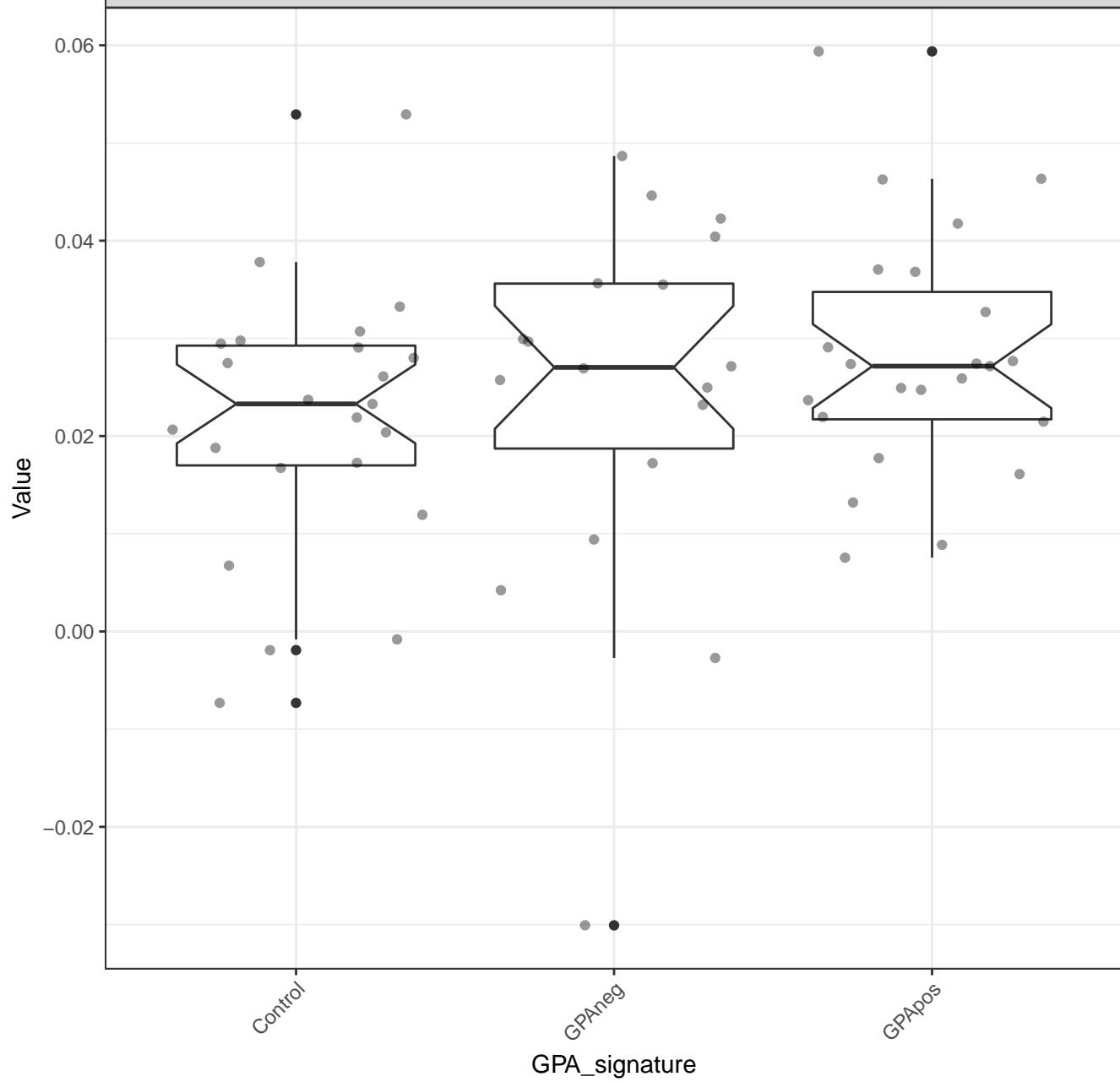


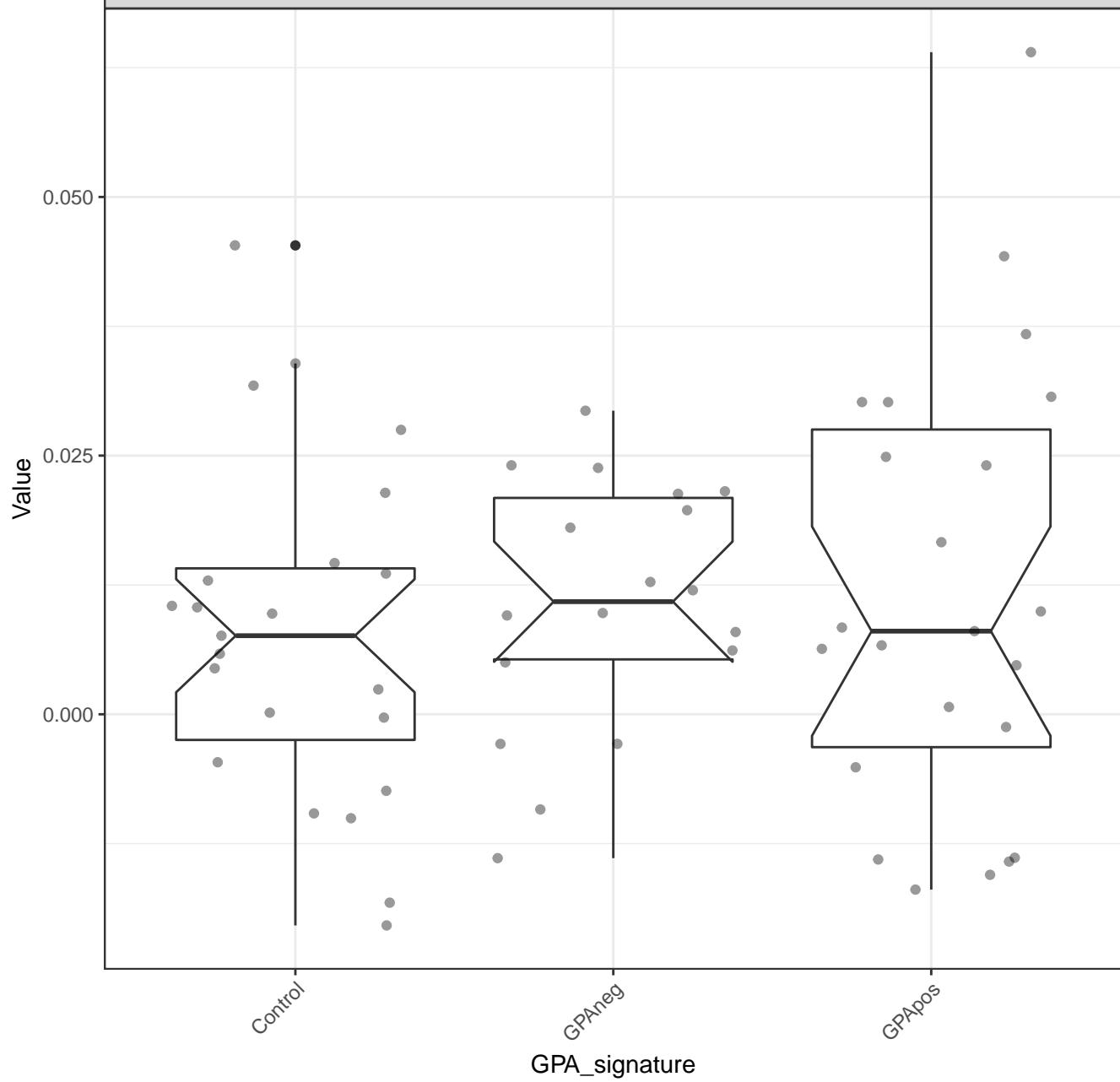
## LV 191



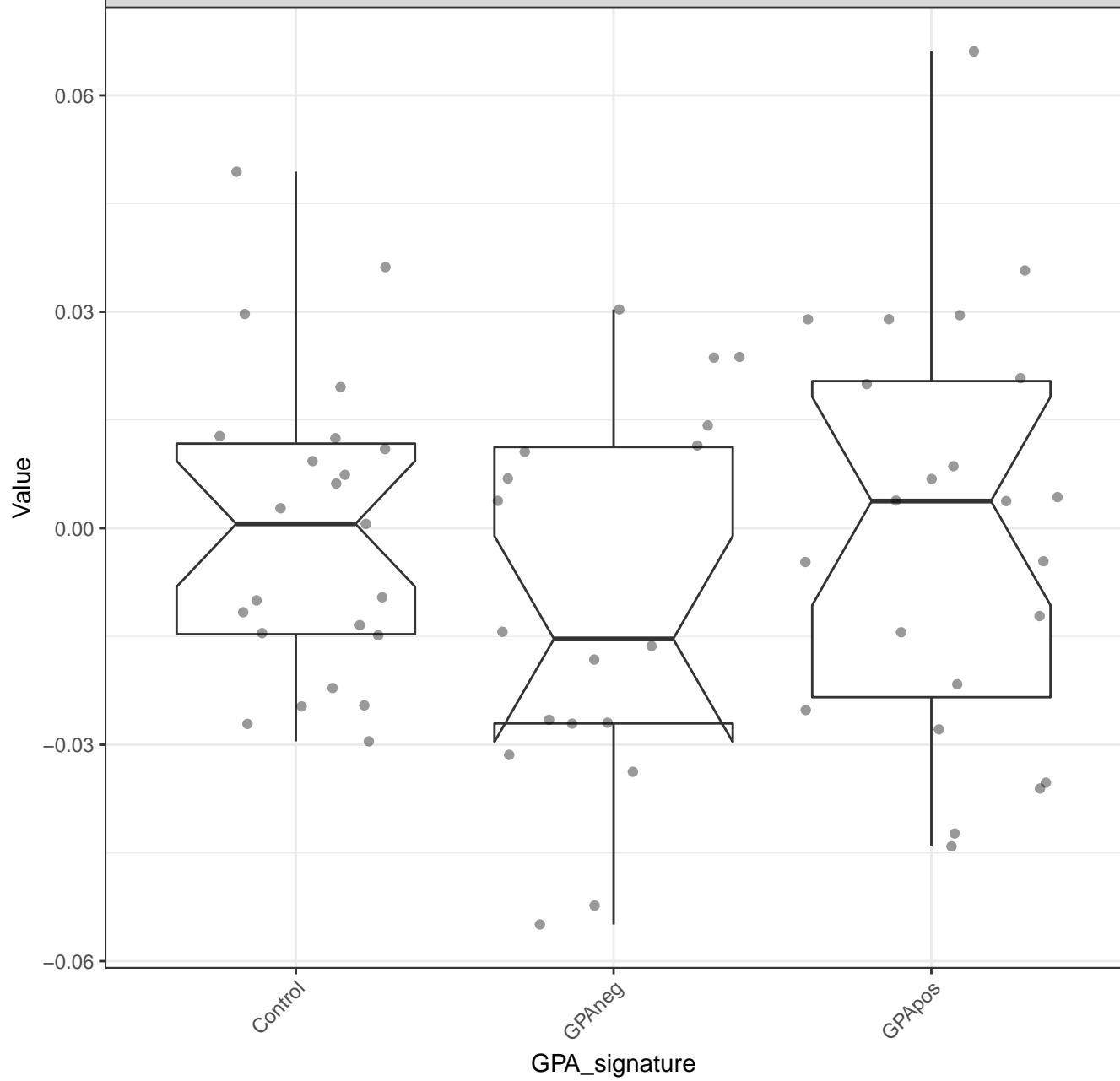


LV 193

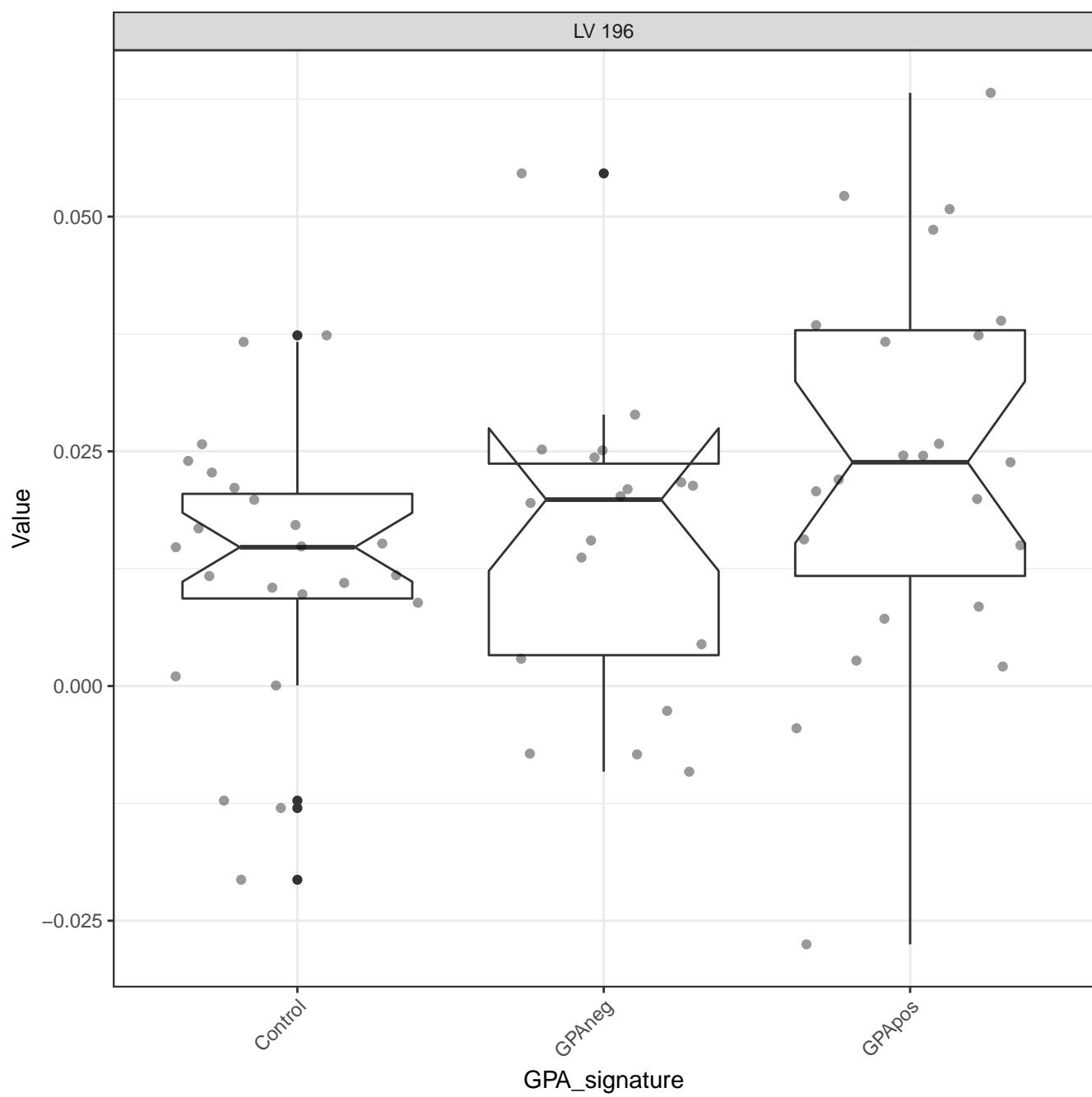




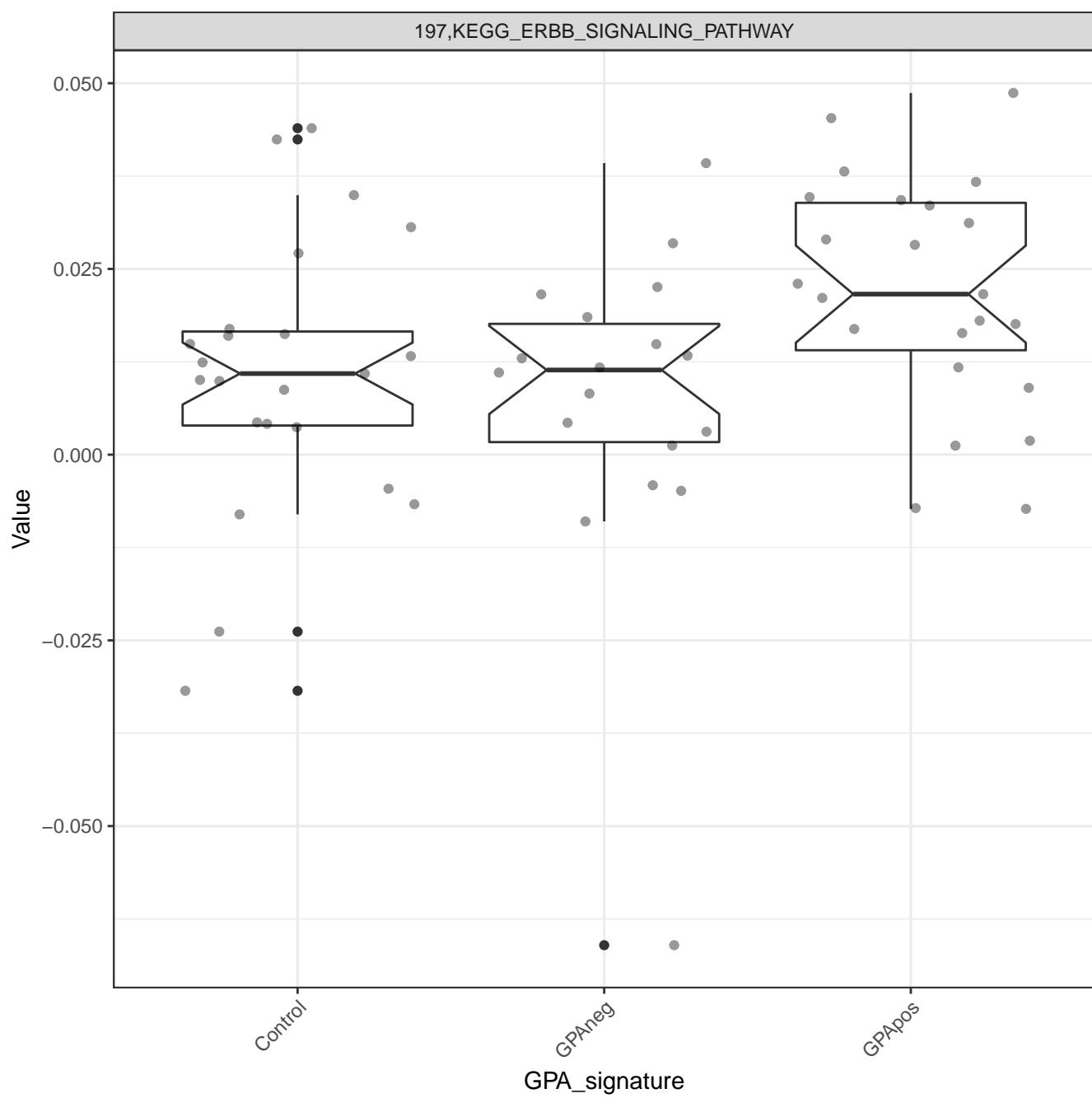
LV 195



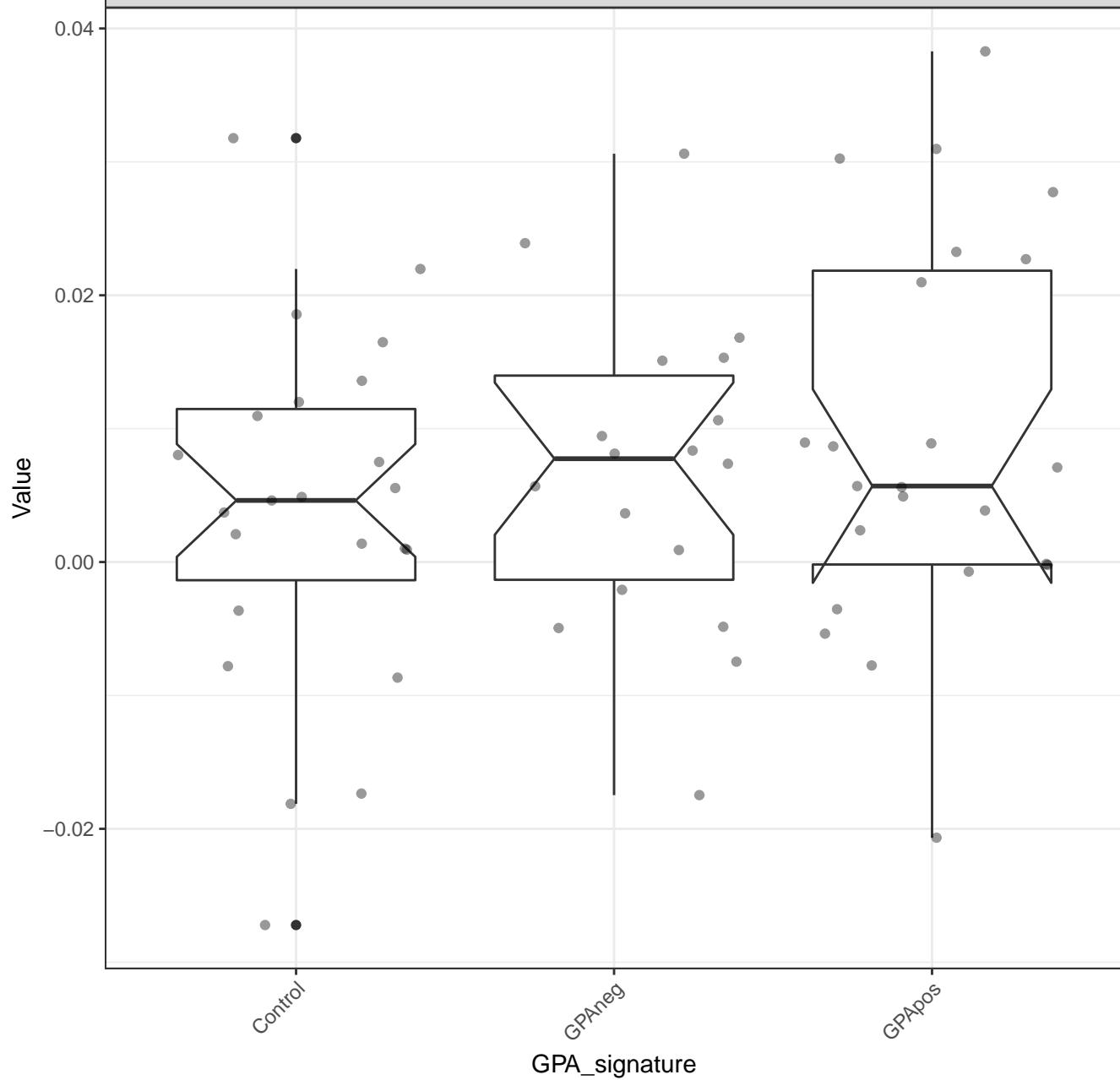
## LV 196



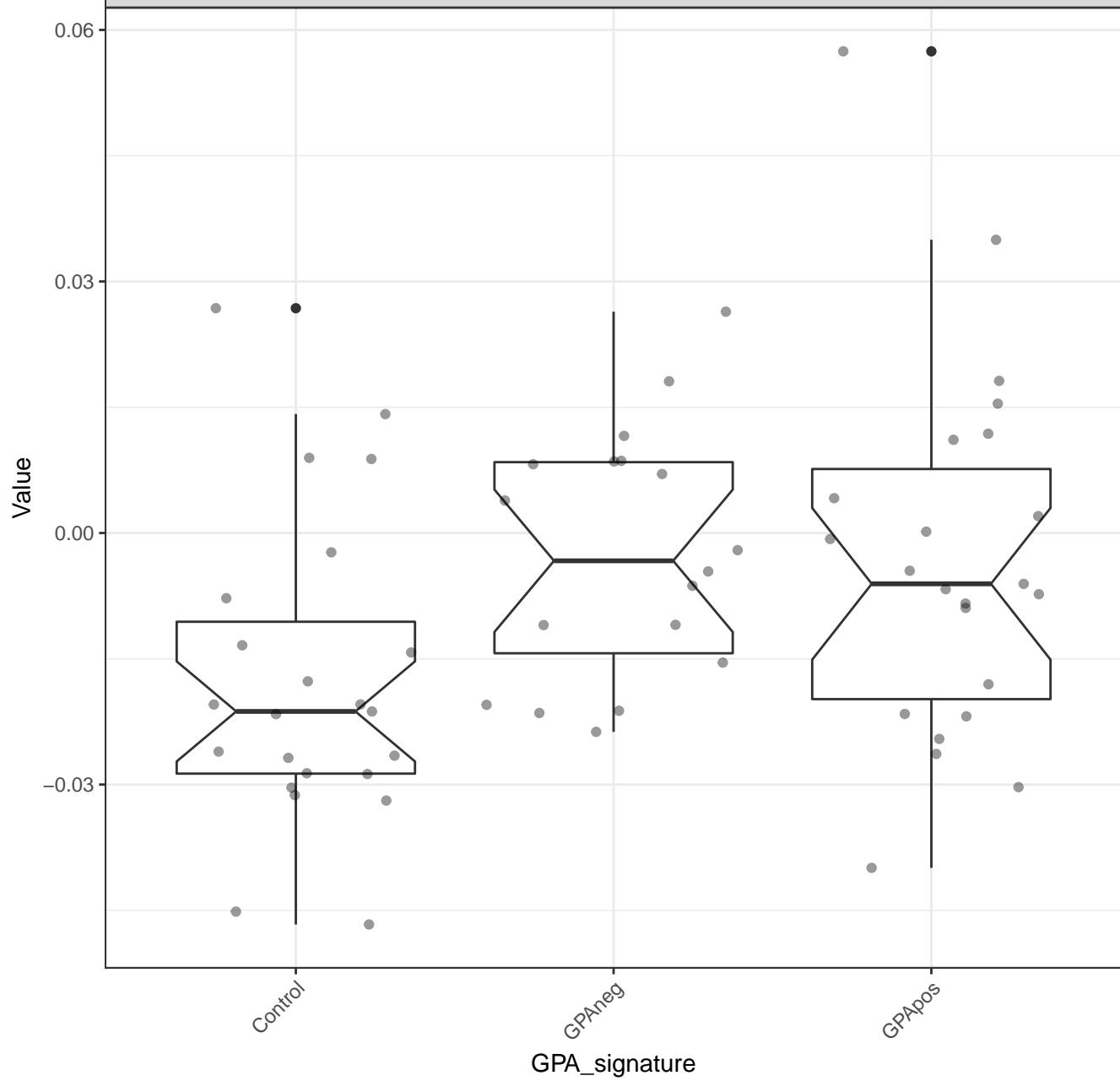
## 197,KEGG\_ERBB\_SIGNALING\_PATHWAY

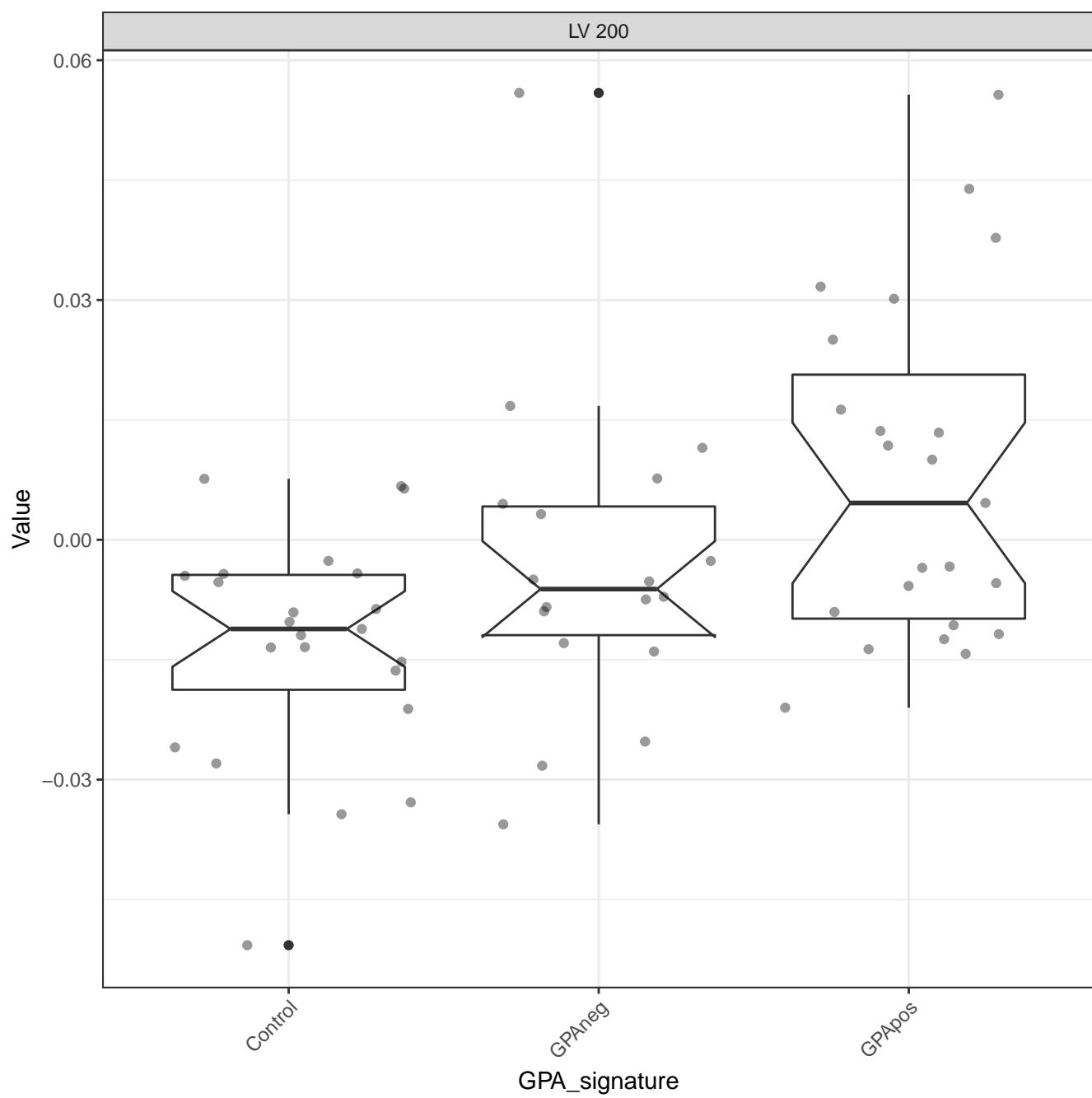


LV 198

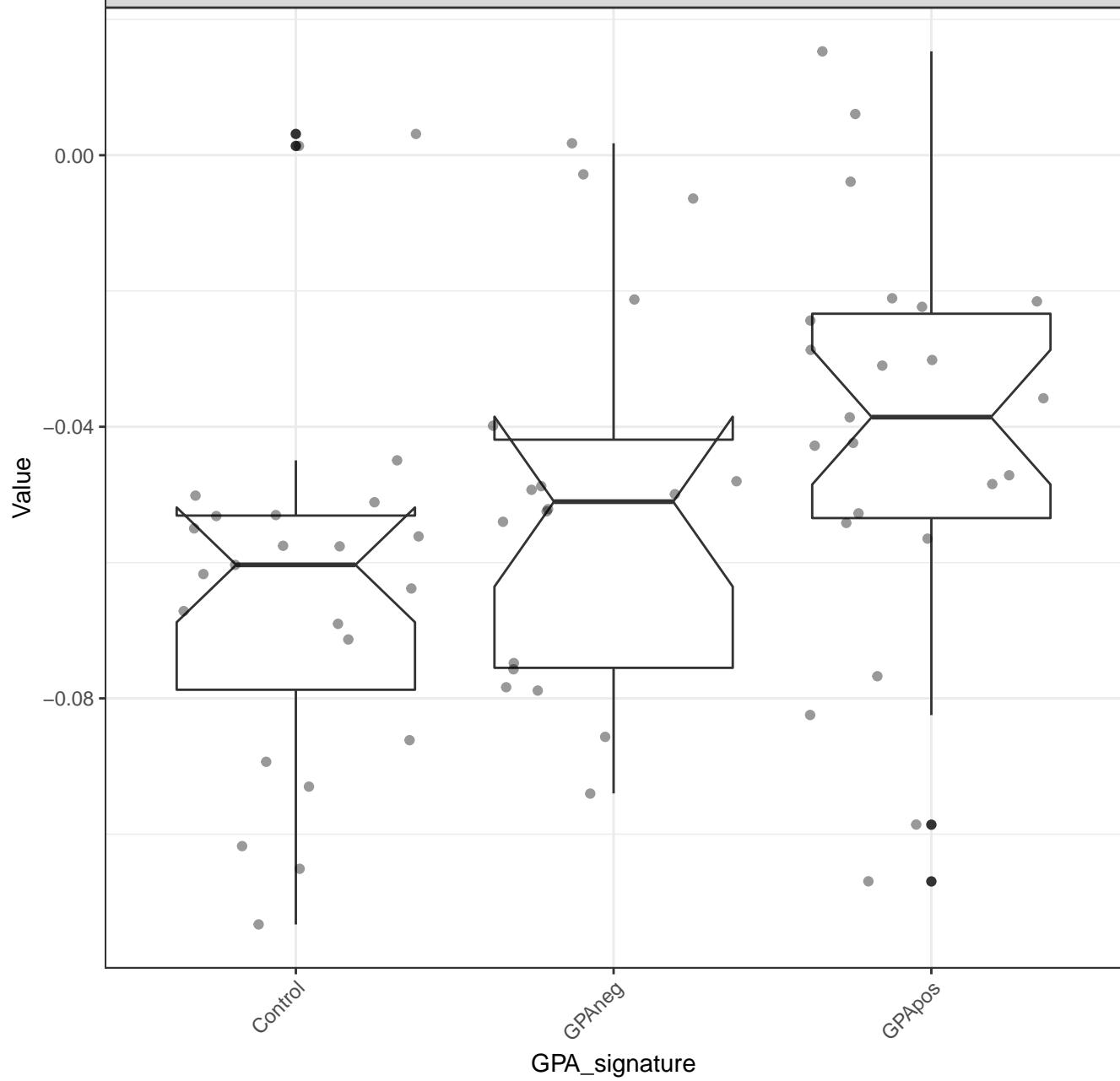


LV 199

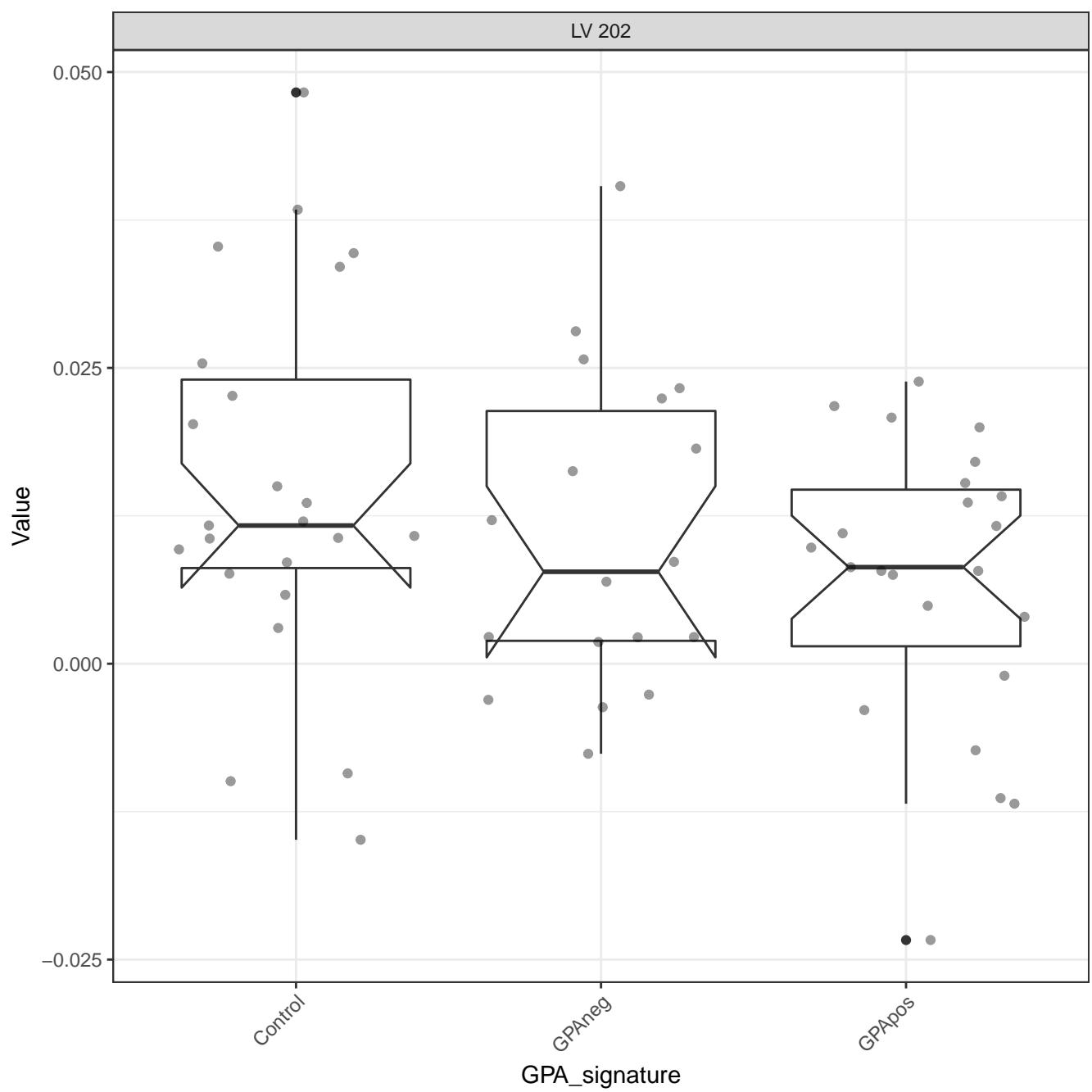




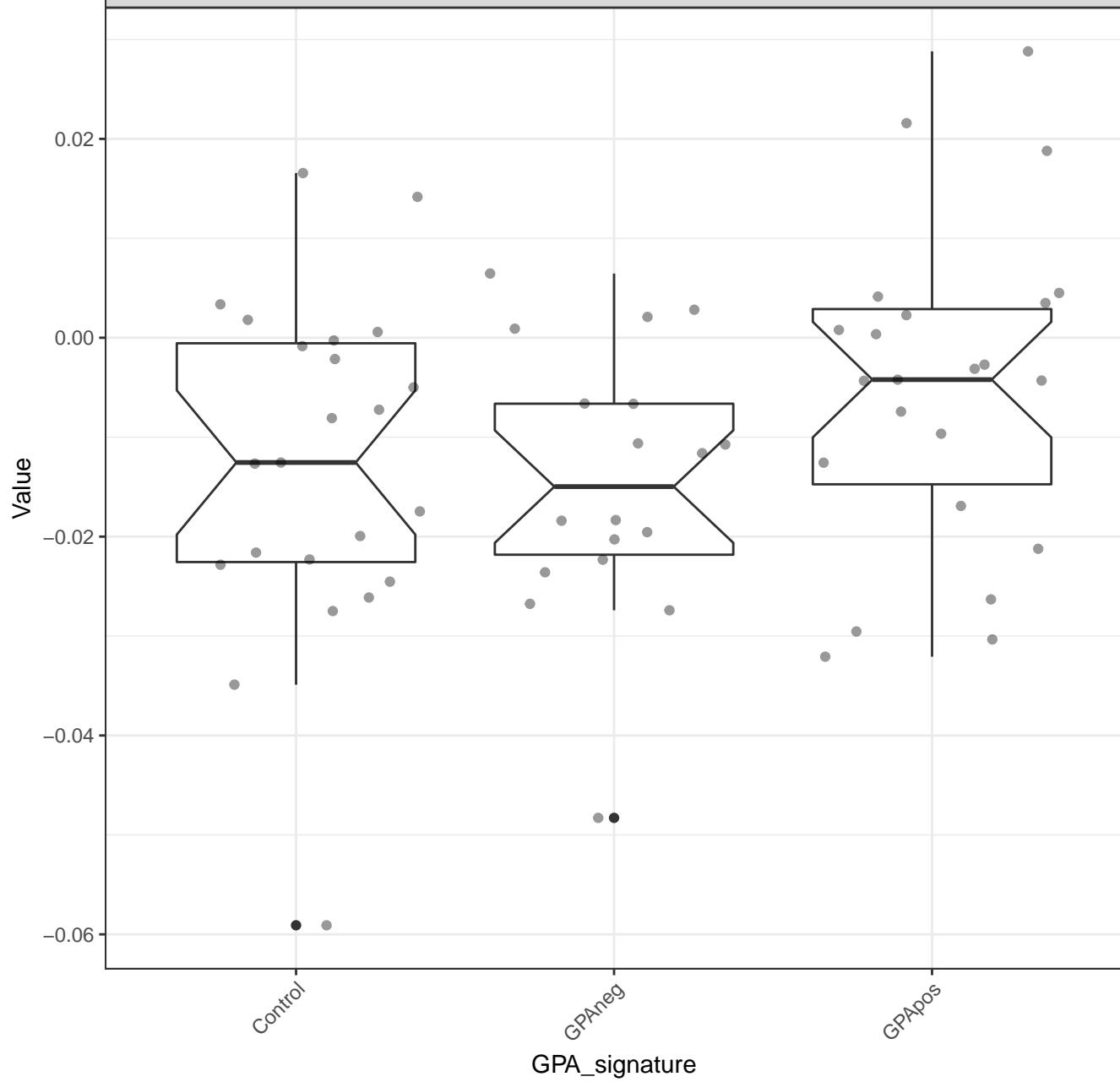
## 201,MIPS\_MEDIATOR\_COMPLEX



## LV 202



## LV 203



LV 204

Value

0.000

-0.025

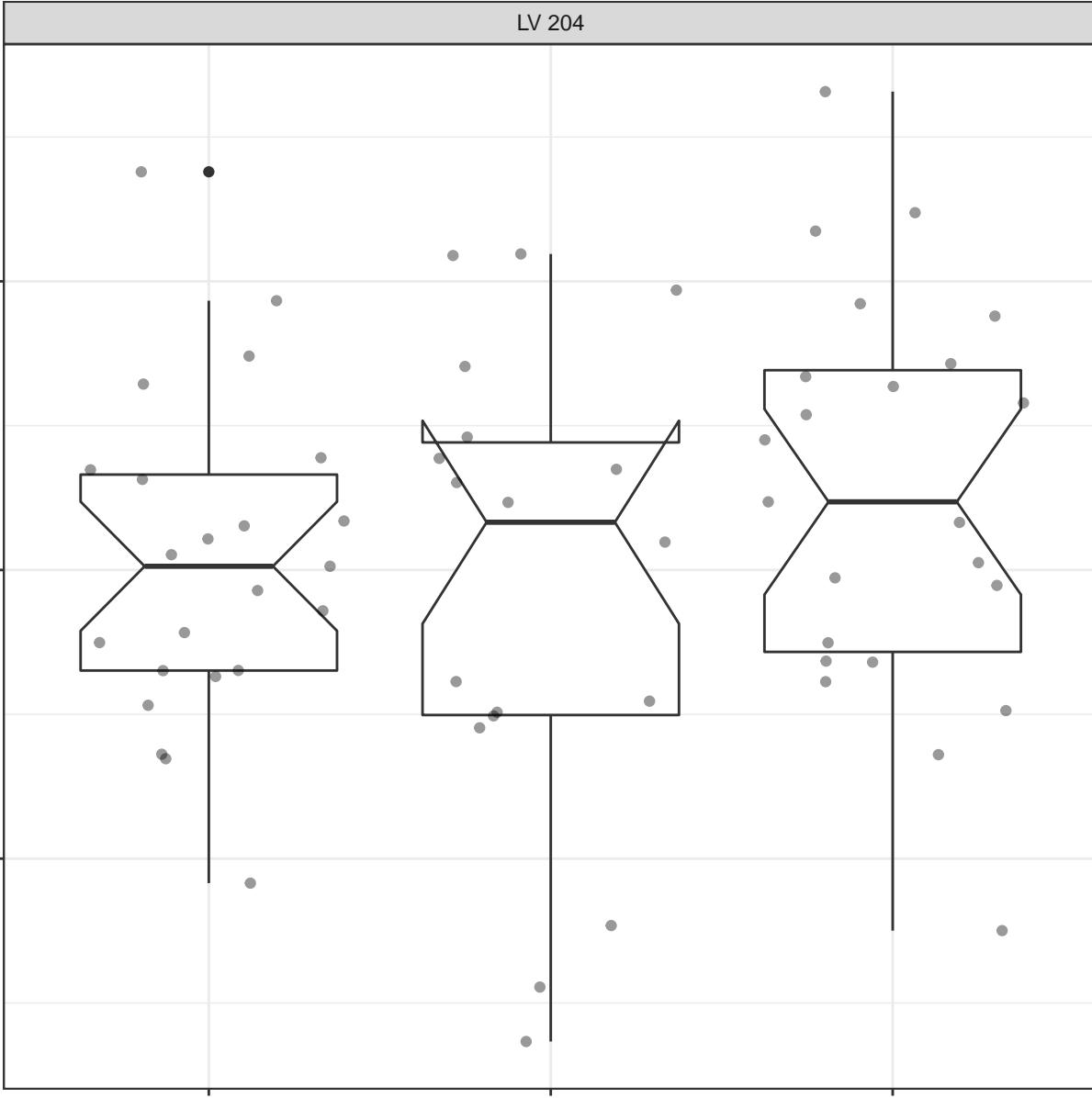
-0.050

Control

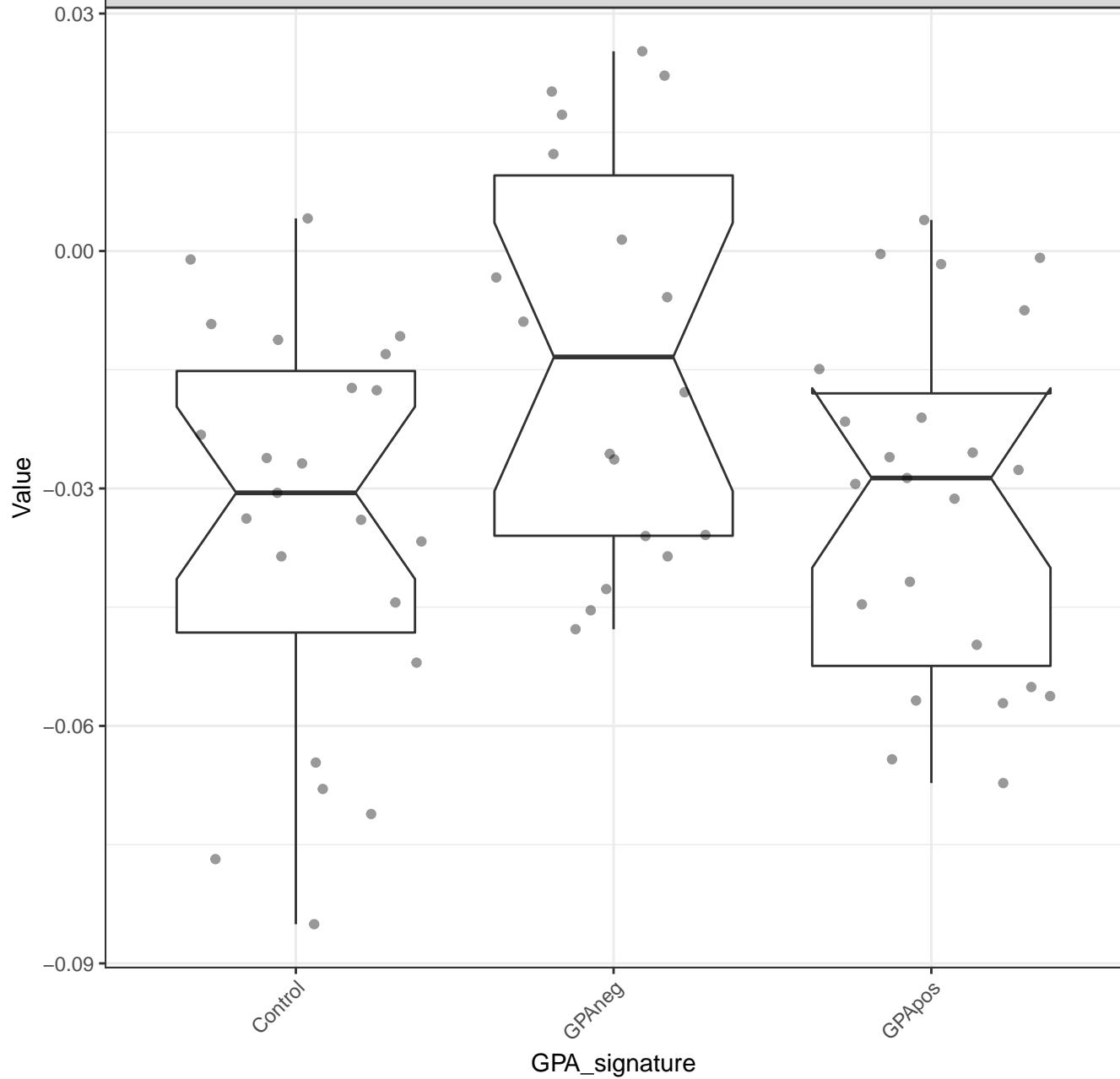
GPA\_signature

GPAneg

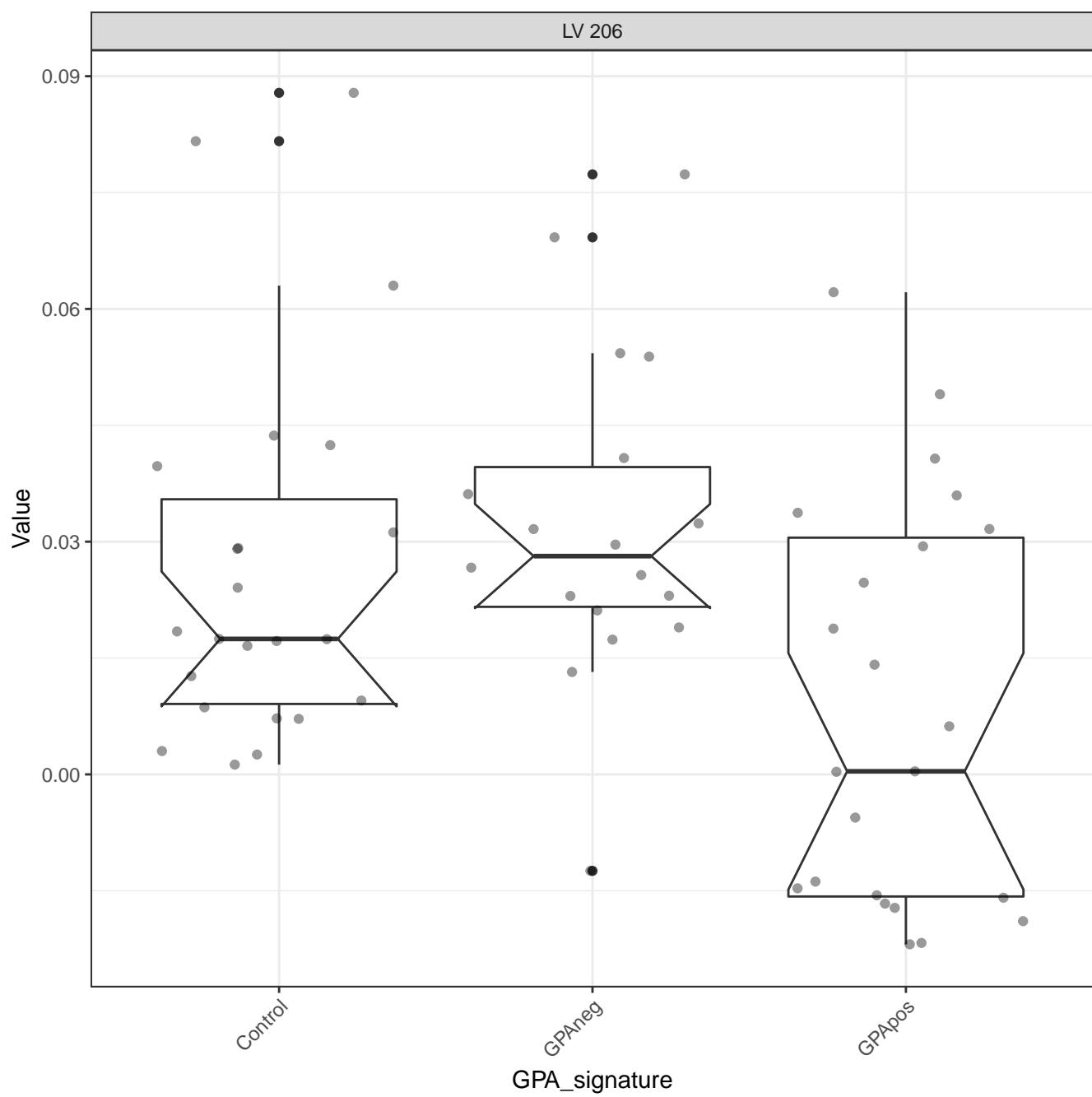
GPAPos



LV 205



LV 206



Value

0.00

-0.05

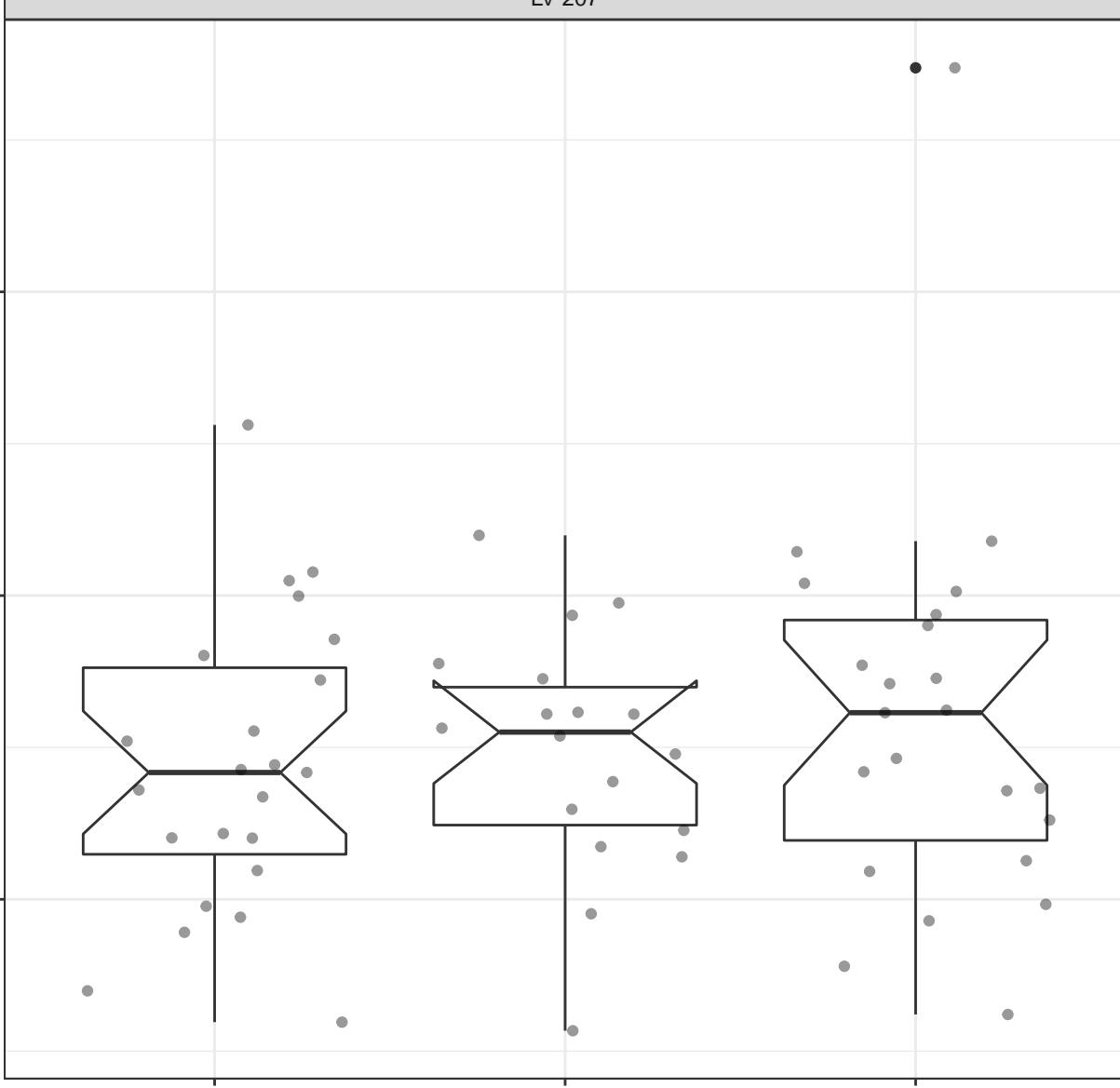
-0.10

Control

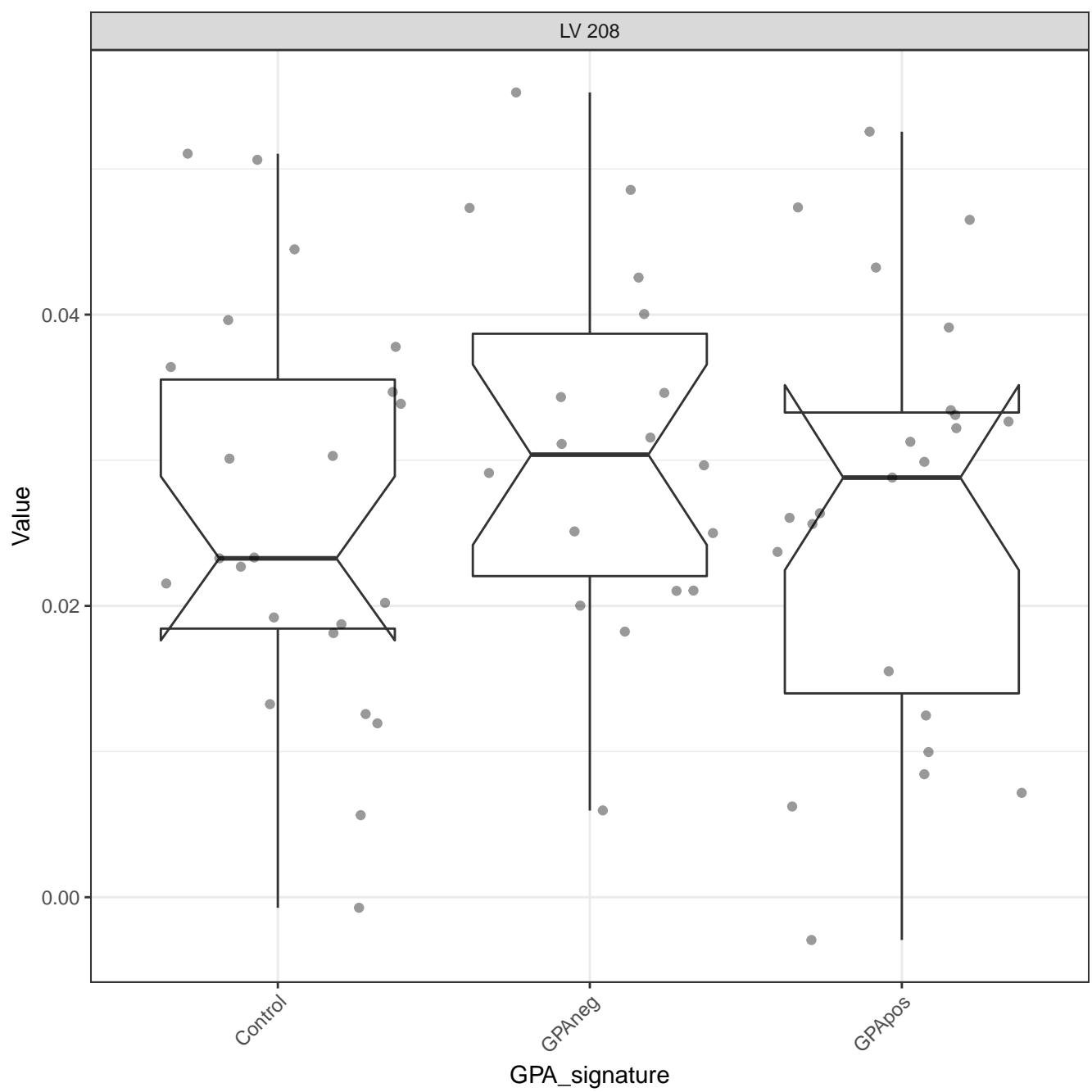
GPAneg

GPAPos

GPA\_signature



LV 208



LV 209

Value

0.05

0.00

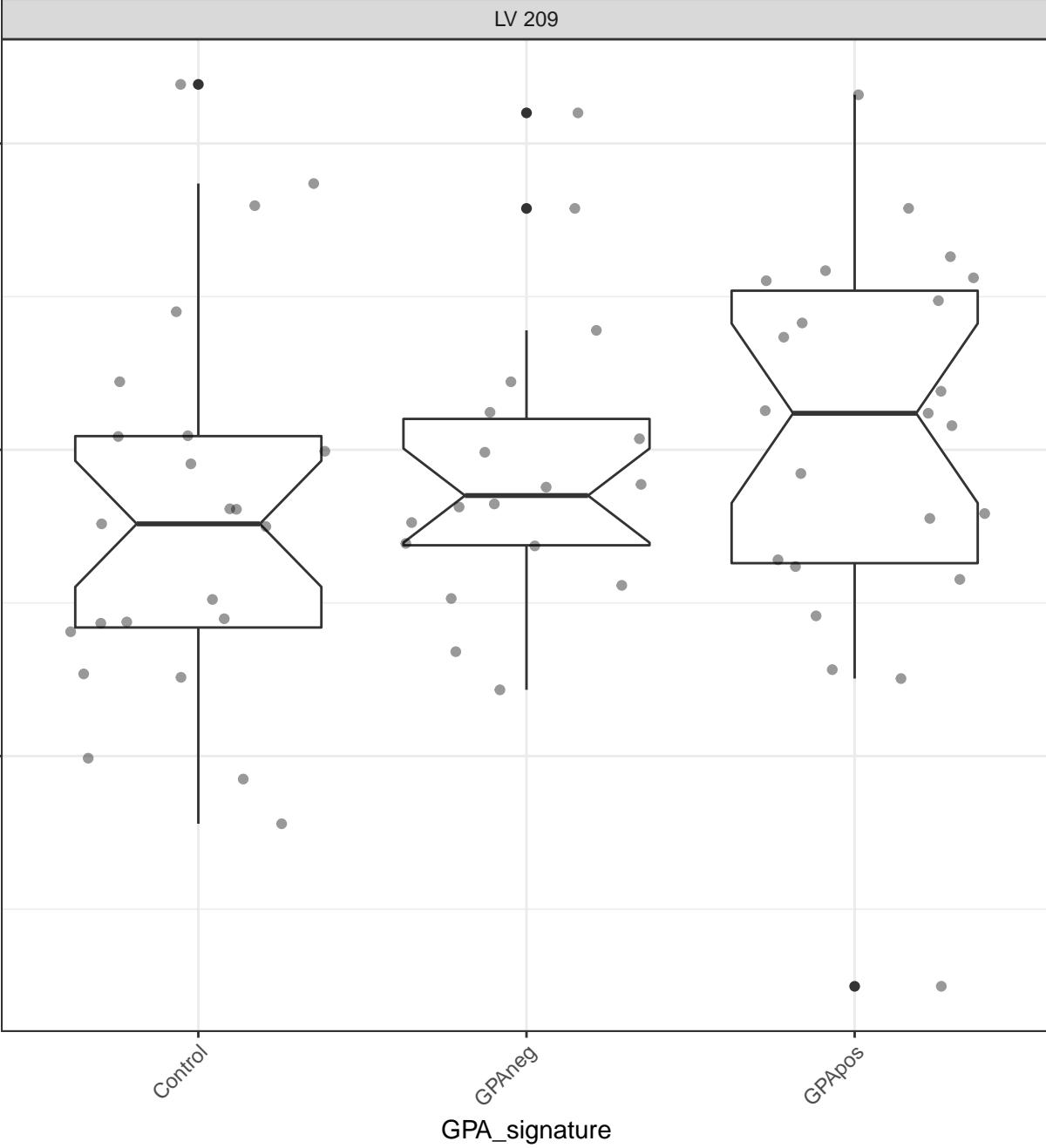
-0.05

Control

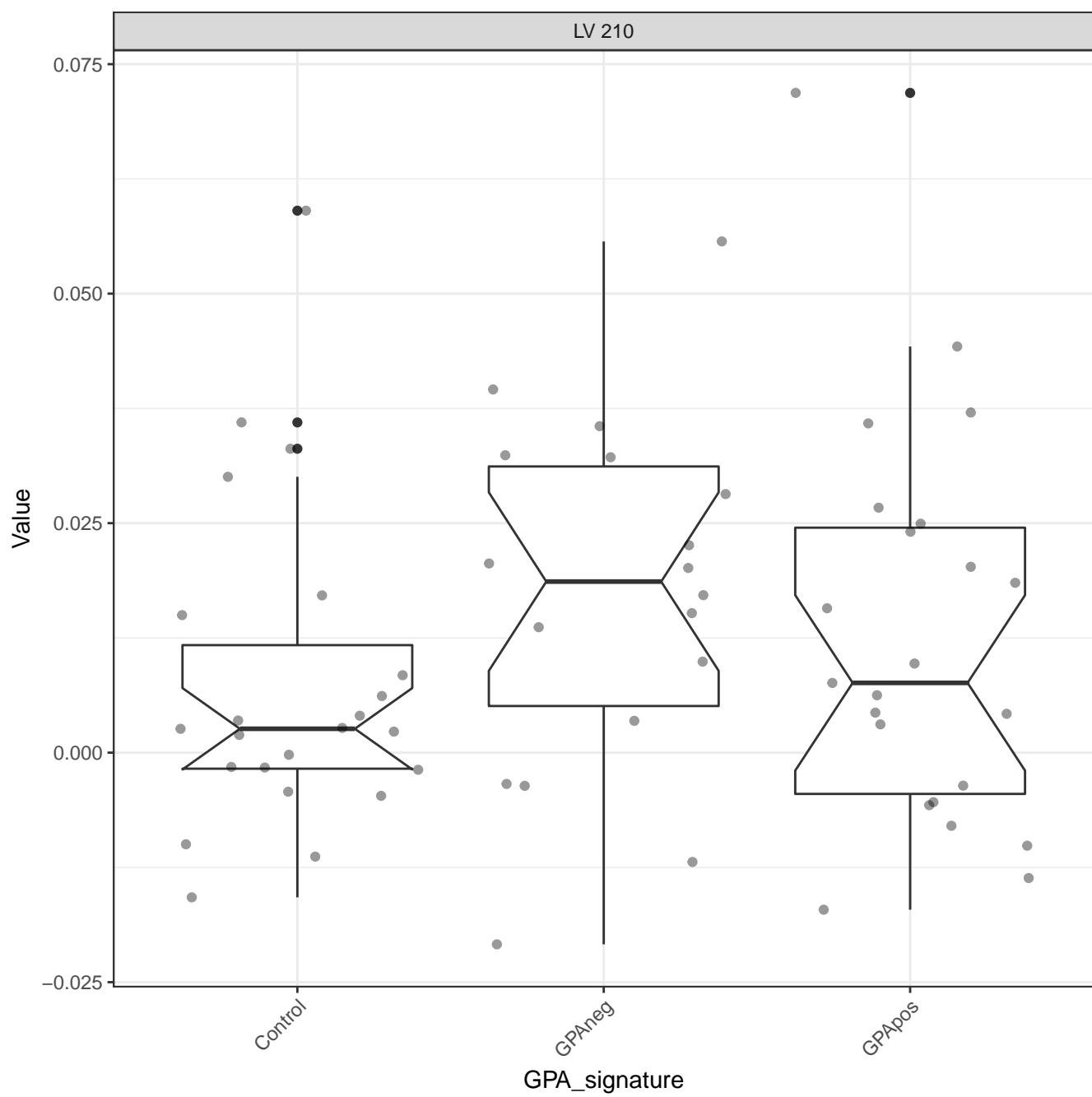
GPAneg

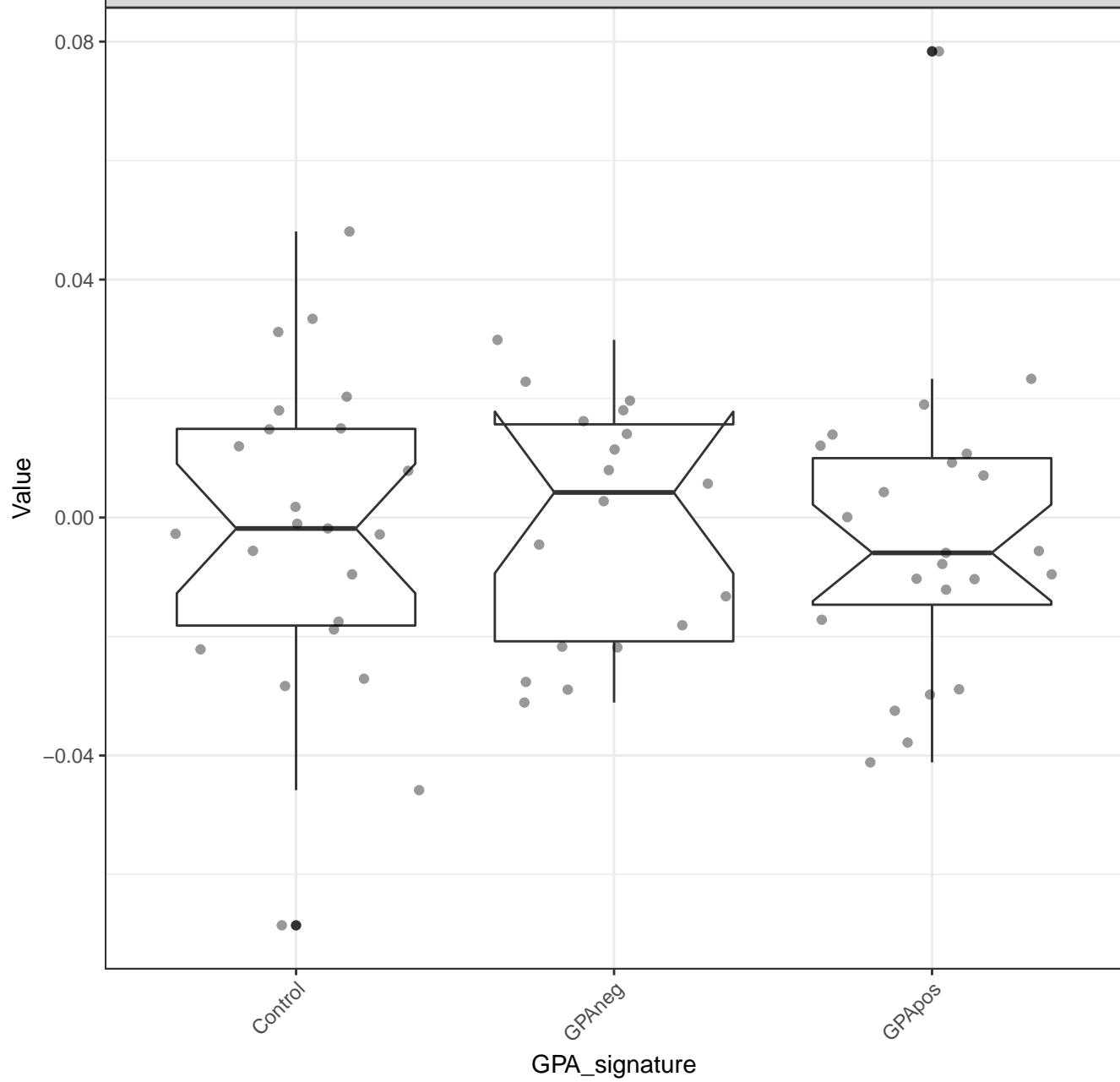
GPAPos

GPA\_signature



LV 210





LV 212

Value

0.05

0.00

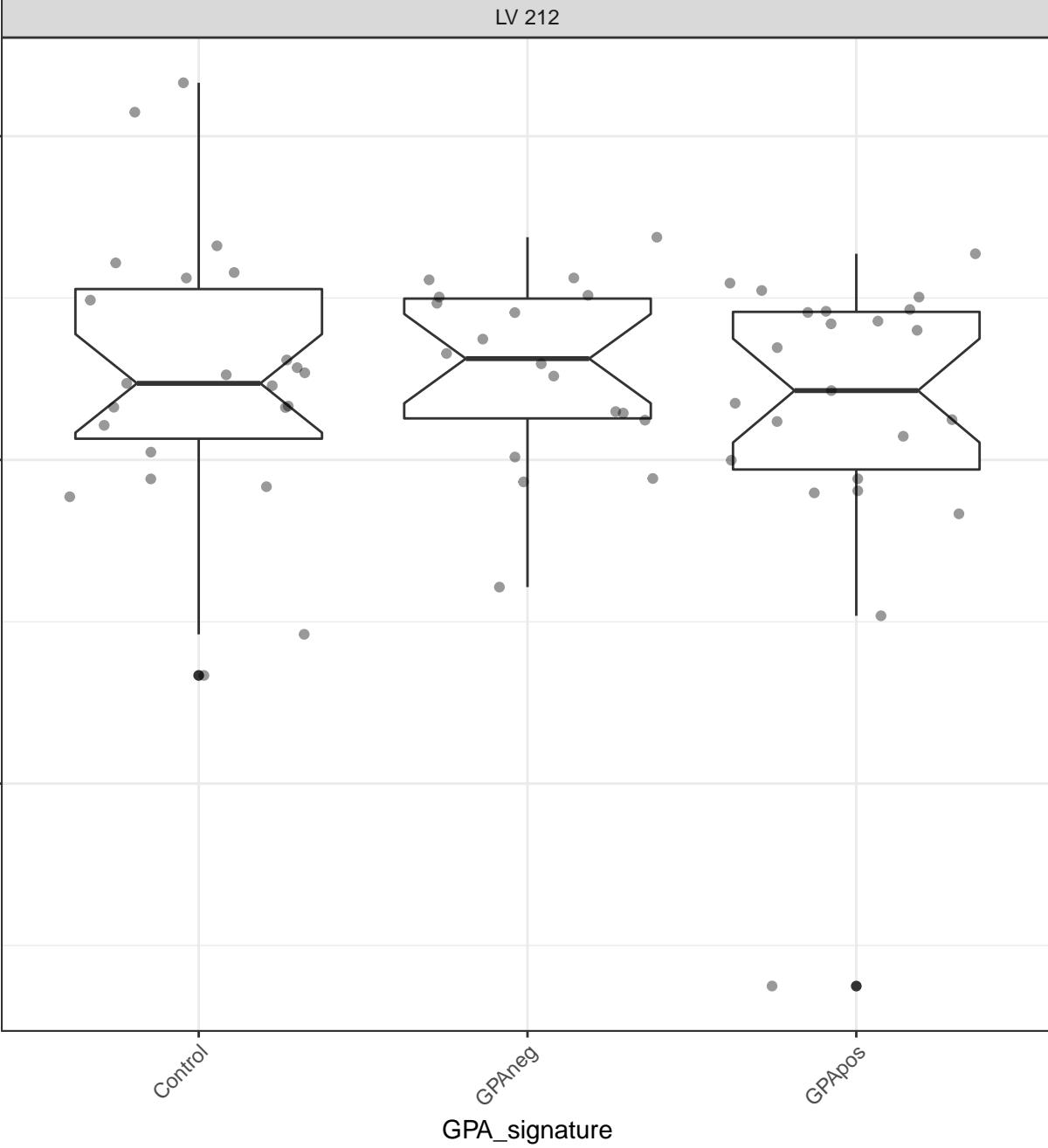
-0.05

Control

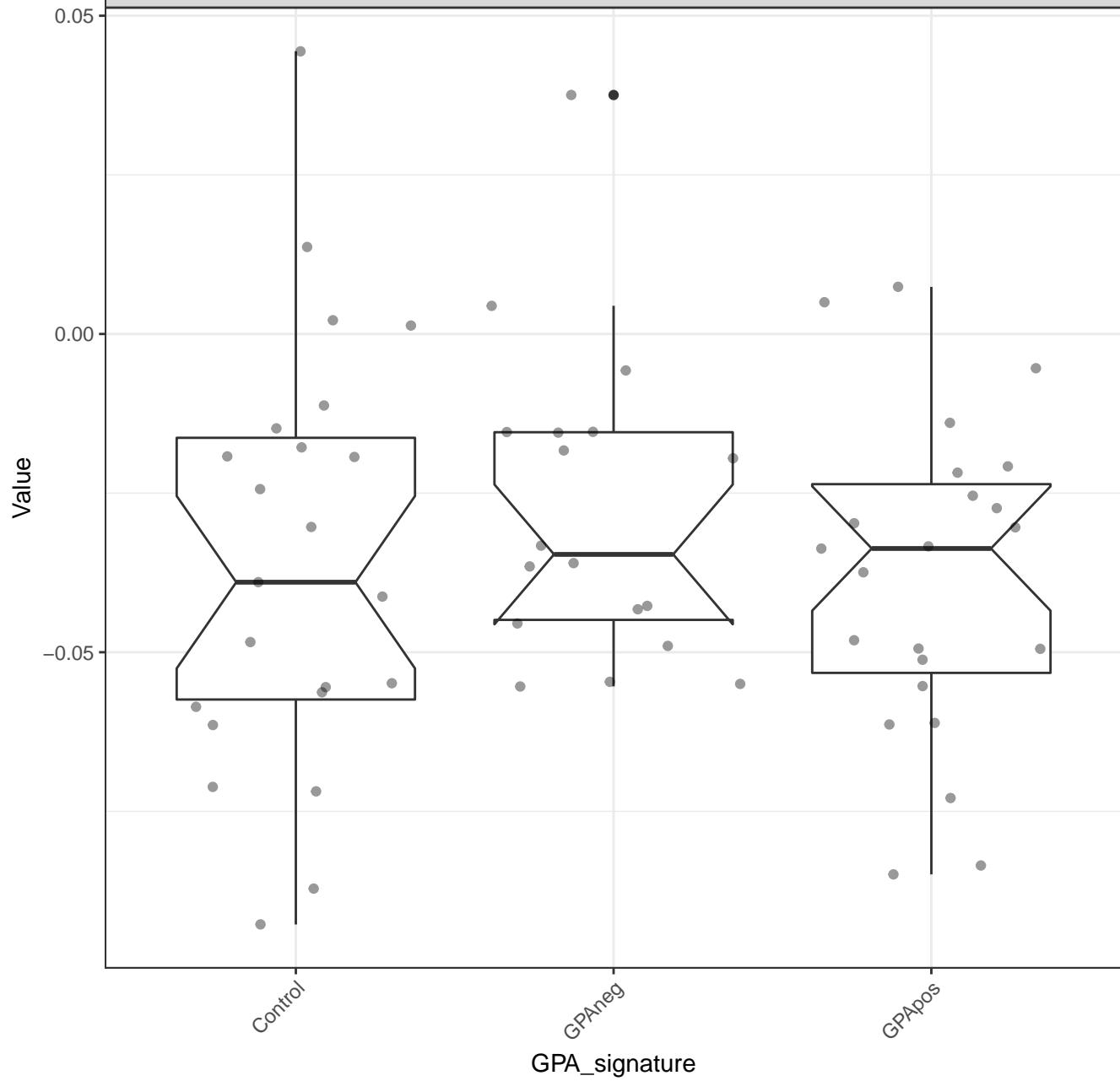
GPAneg

GPApos

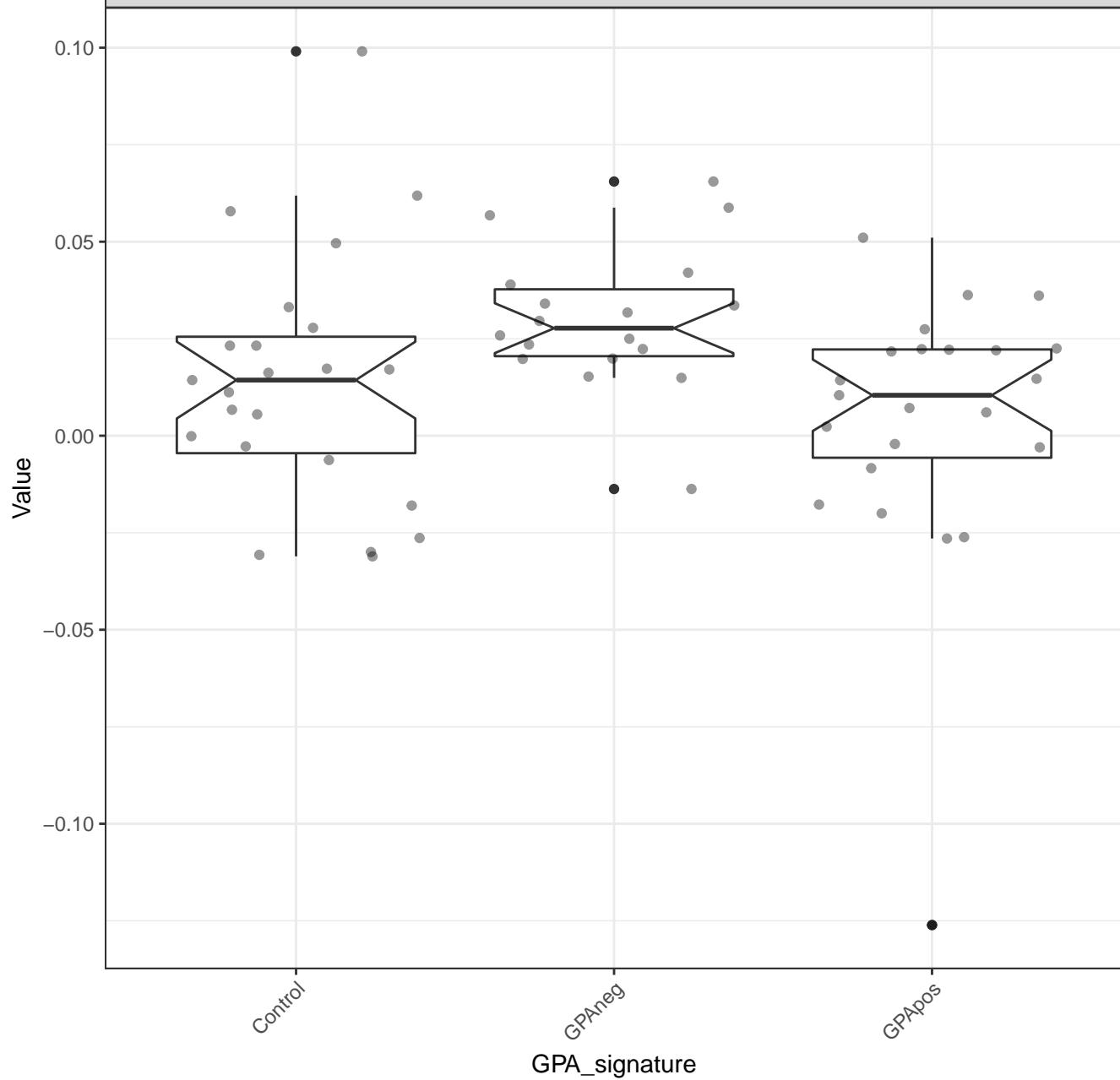
GPA\_signature

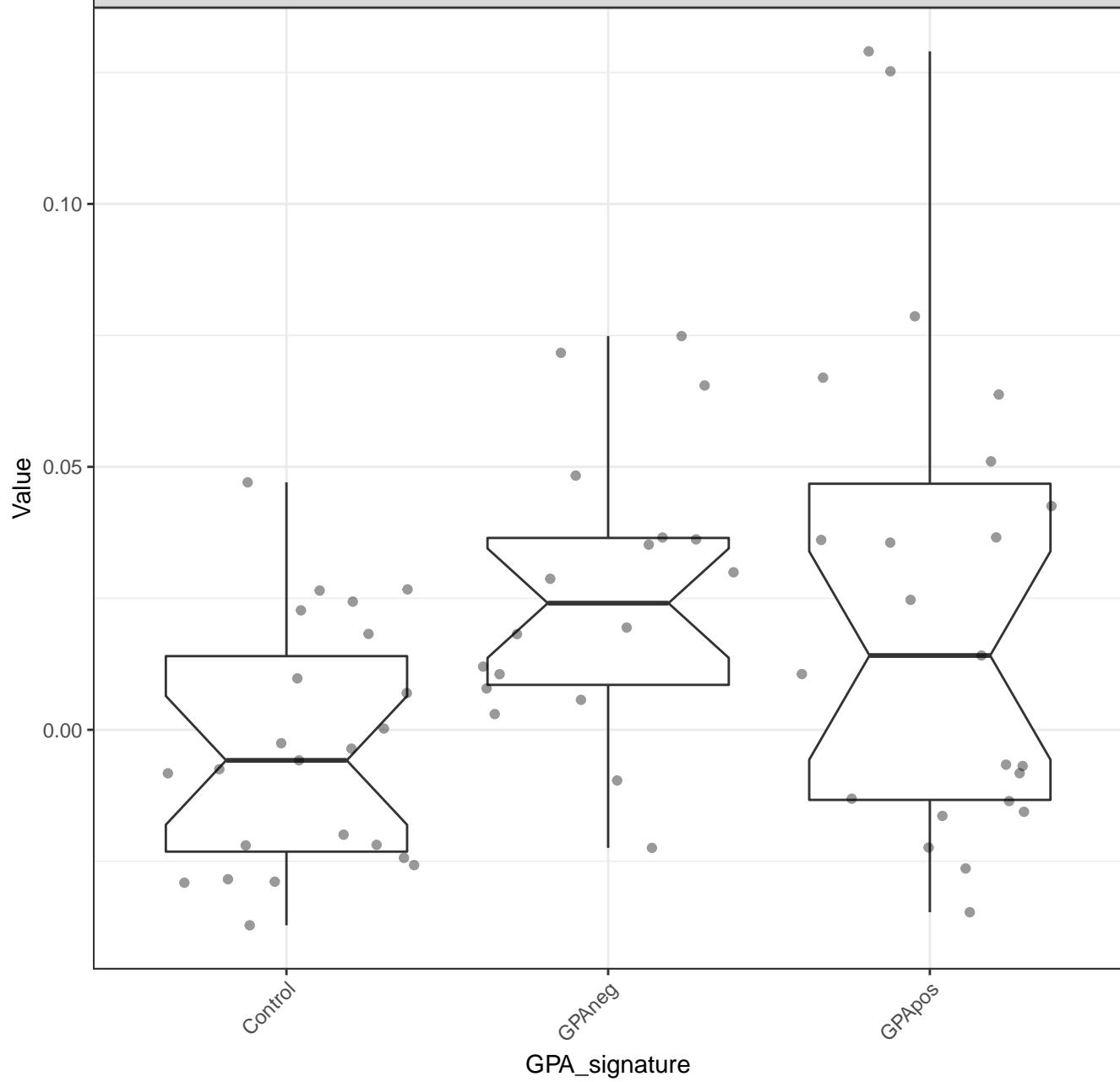


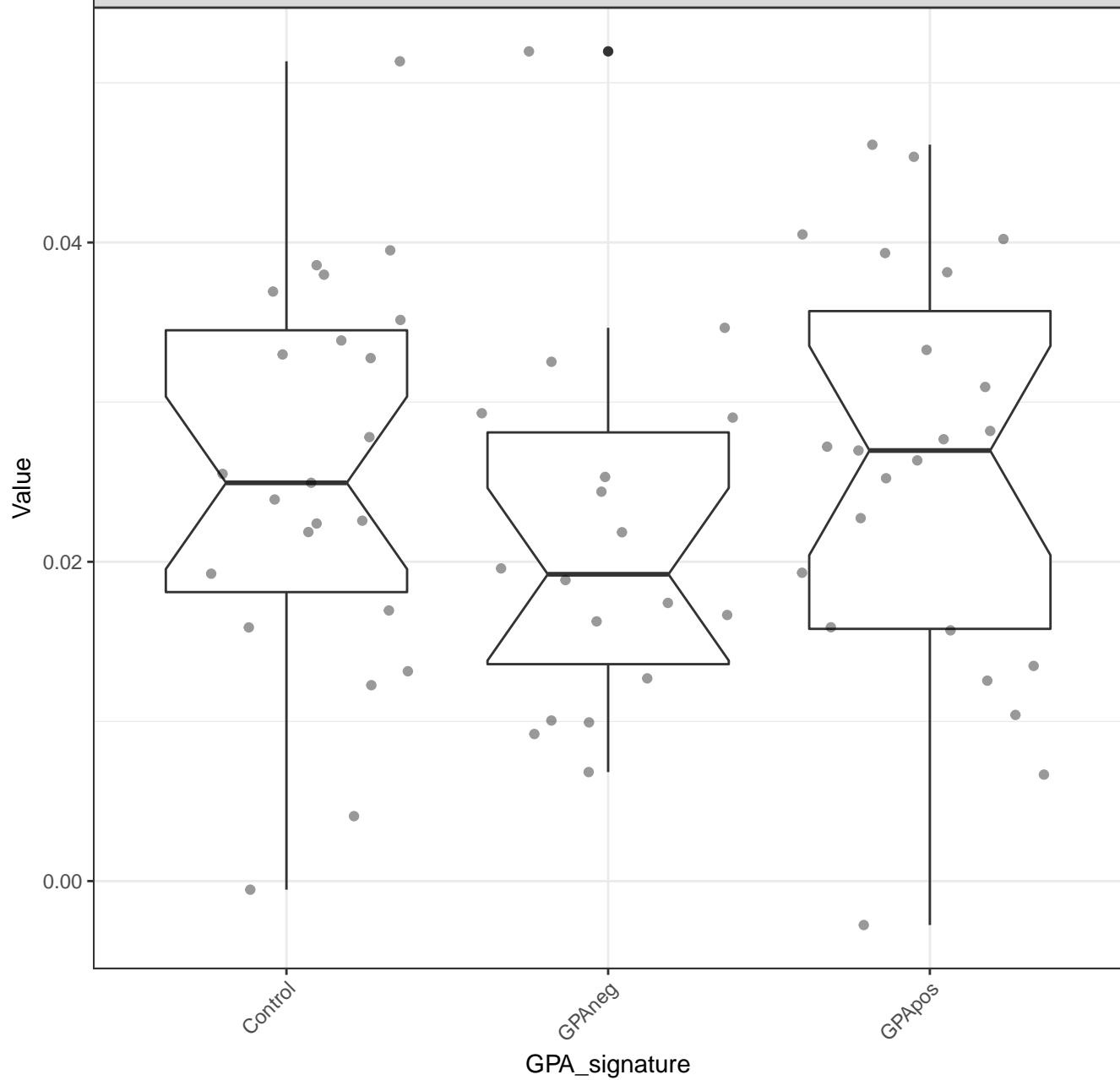
LV 213

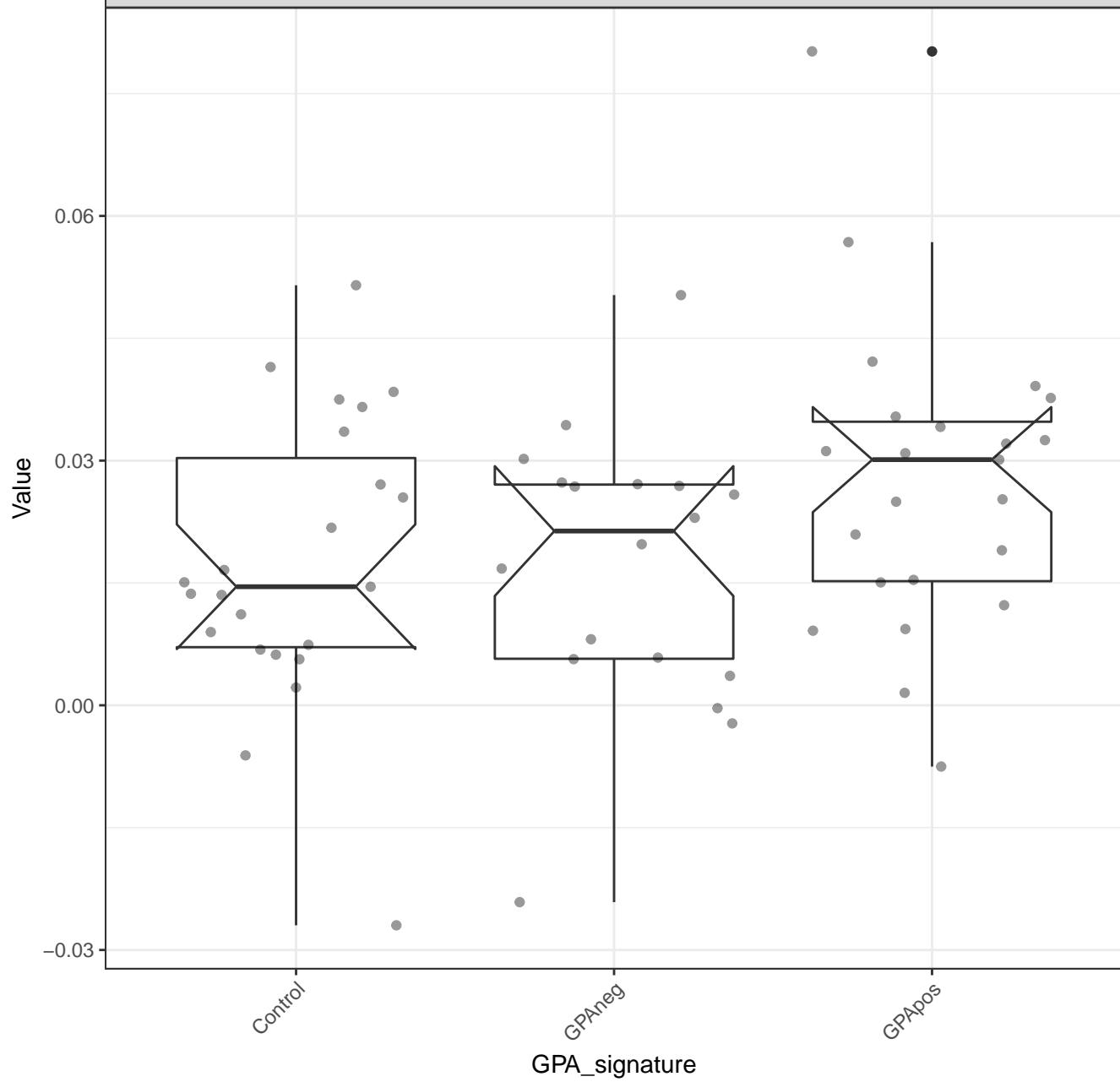


LV 214

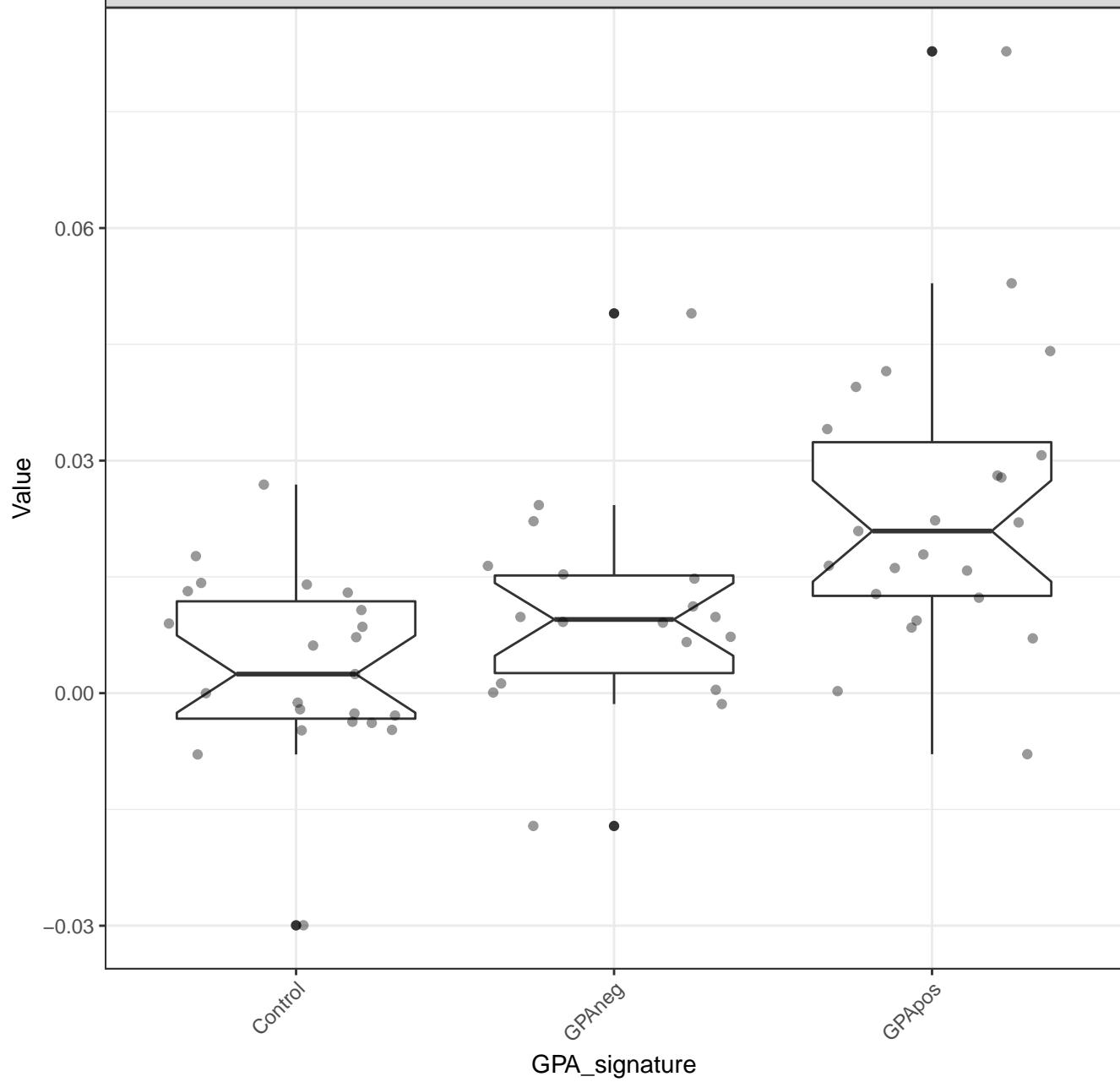


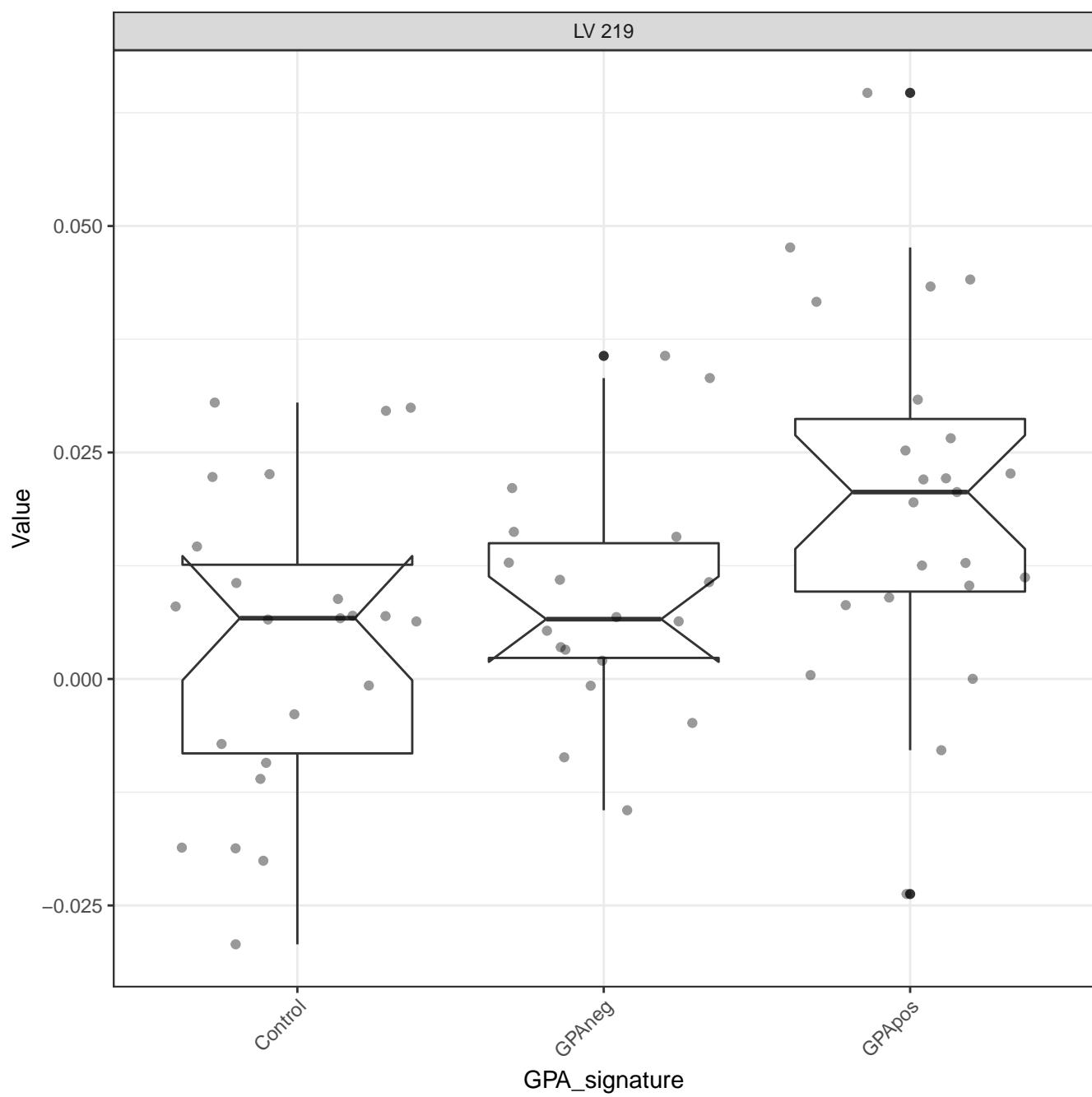






## LV 218





LV 220

Value

0.05

0.00

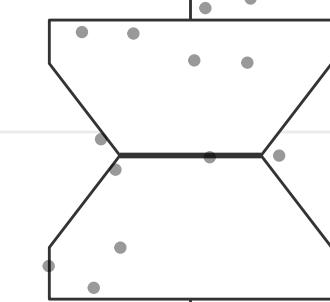
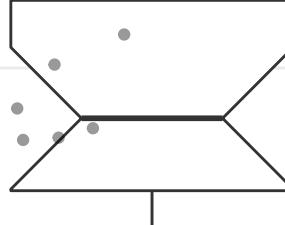
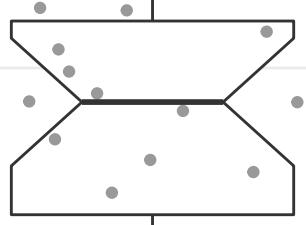
-0.05

Control

GPAneg

GPAPos

GPA\_signature



## LV 221

Value

0.050

0.025

0.000

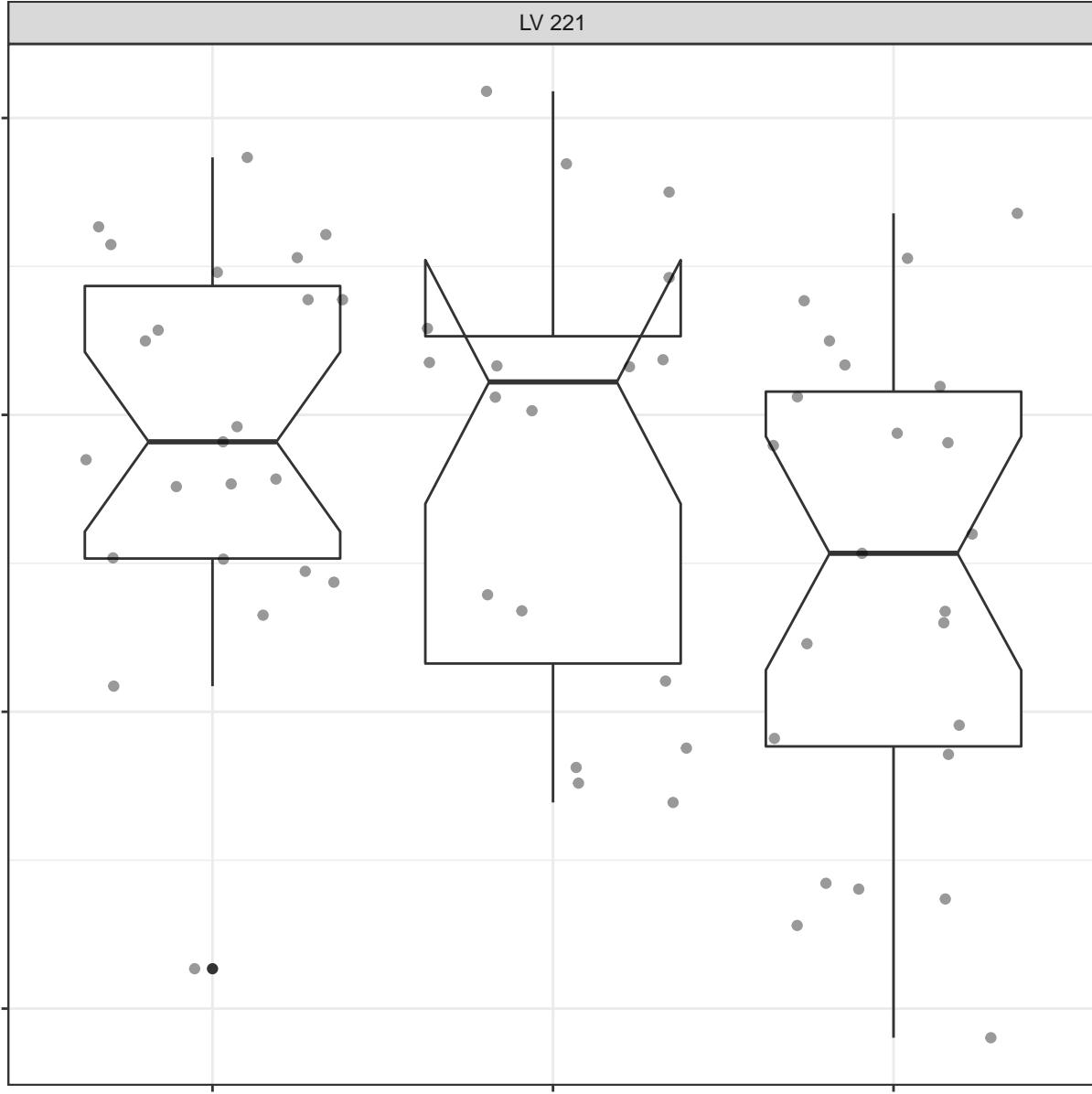
-0.025

Control

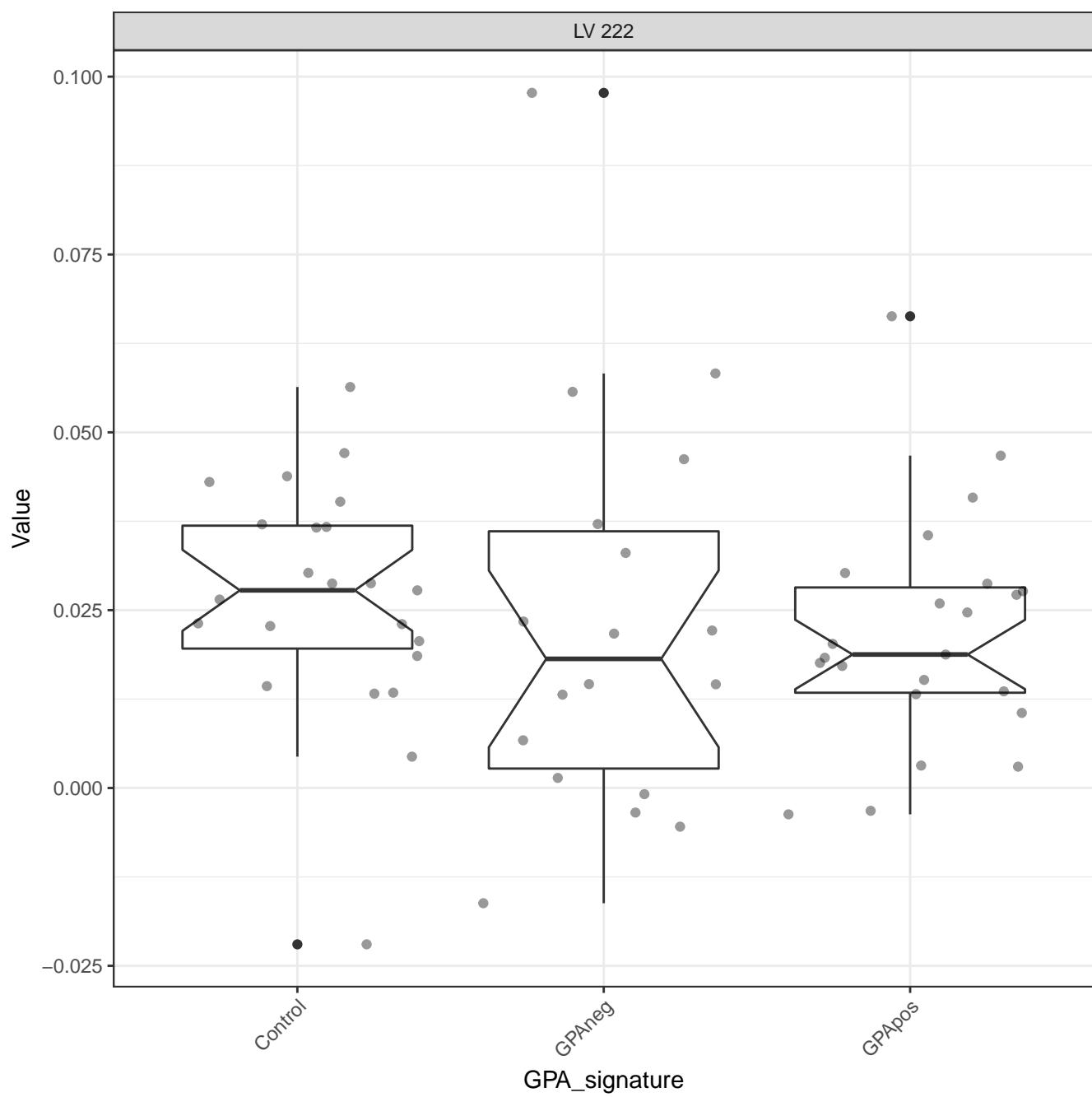
GPAneg

GPAPos

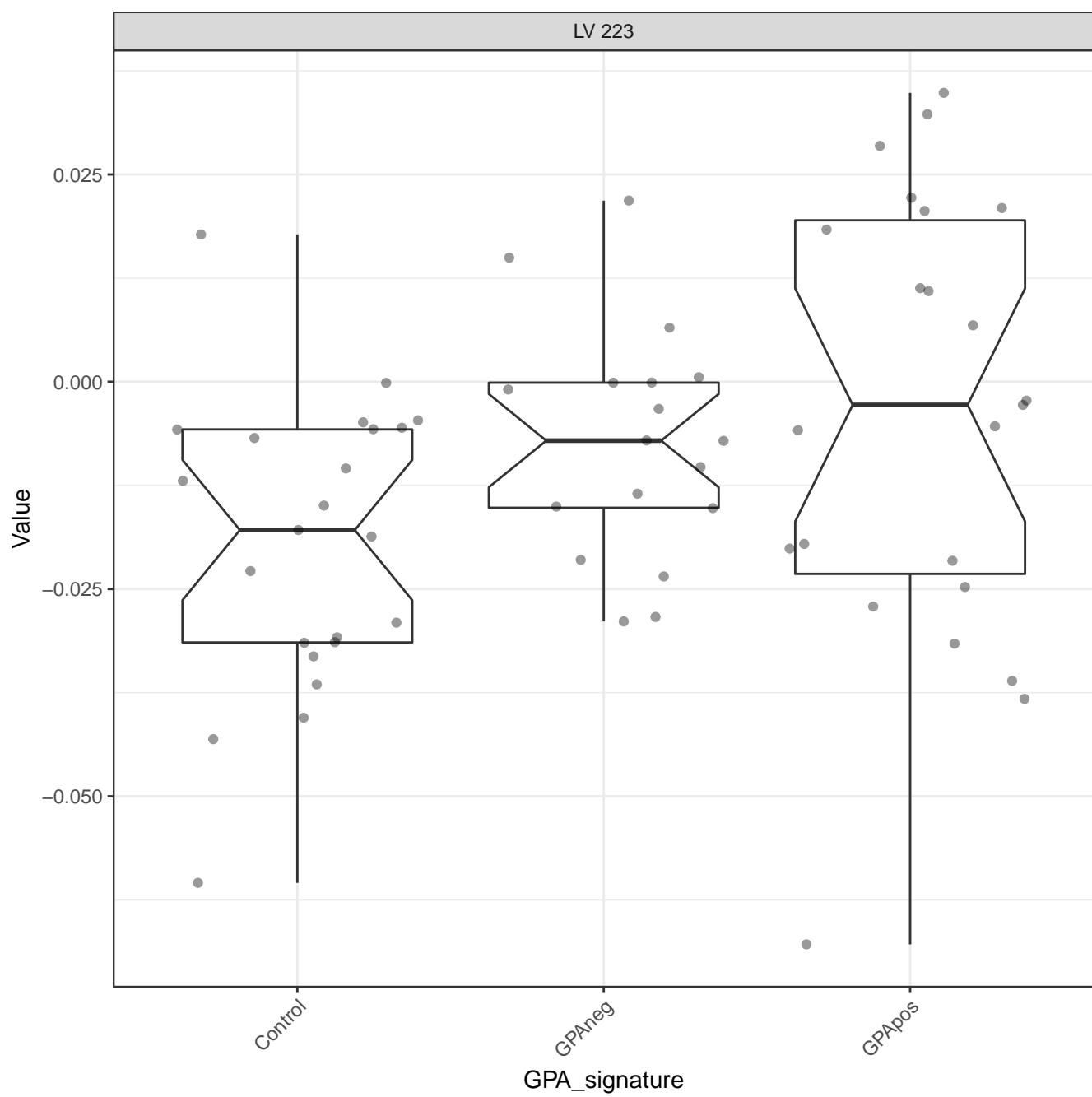
GPA\_signature



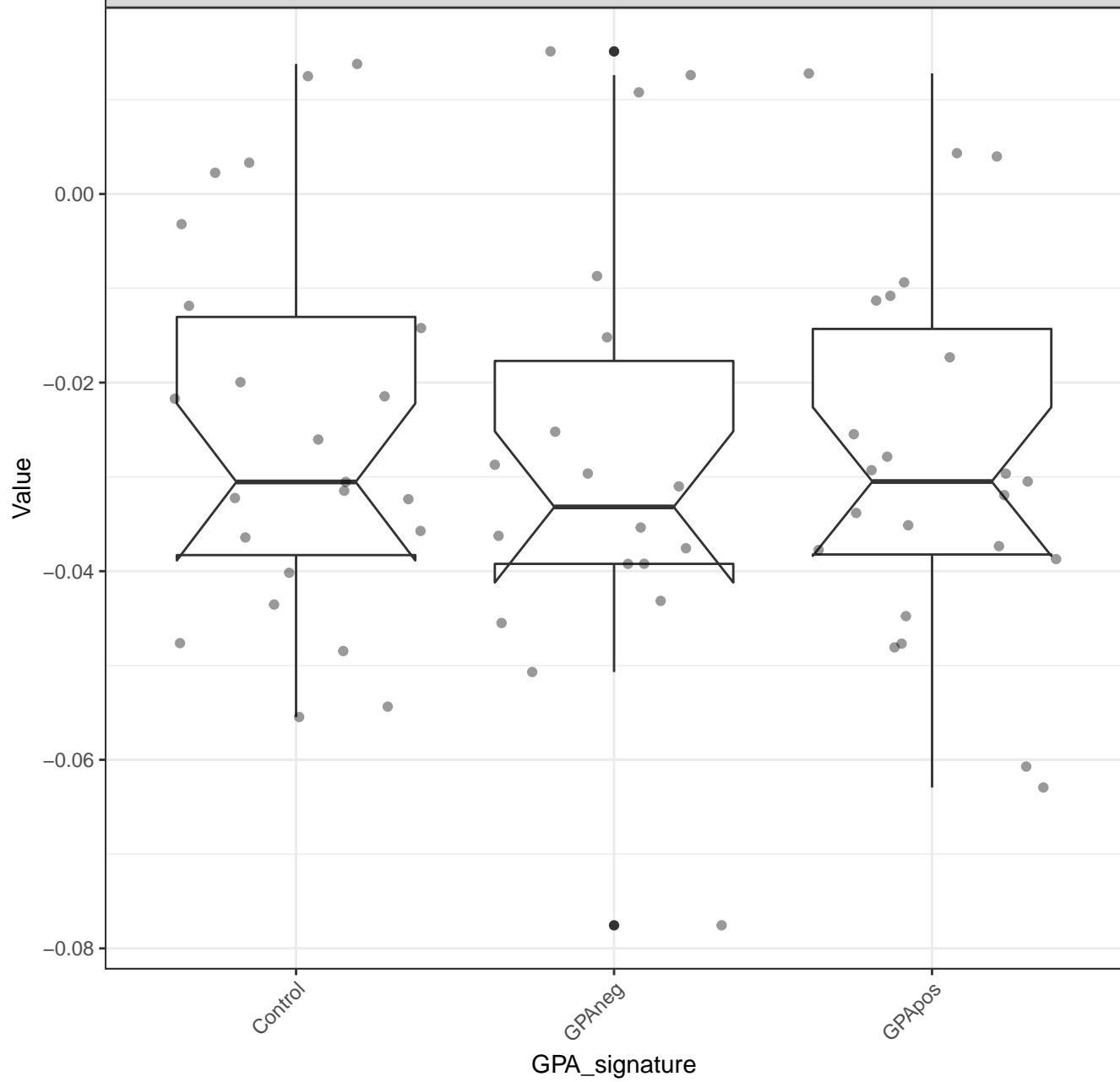
## LV 222



## LV 223



LV 224



LV 225

Value

0.050

0.025

0.000

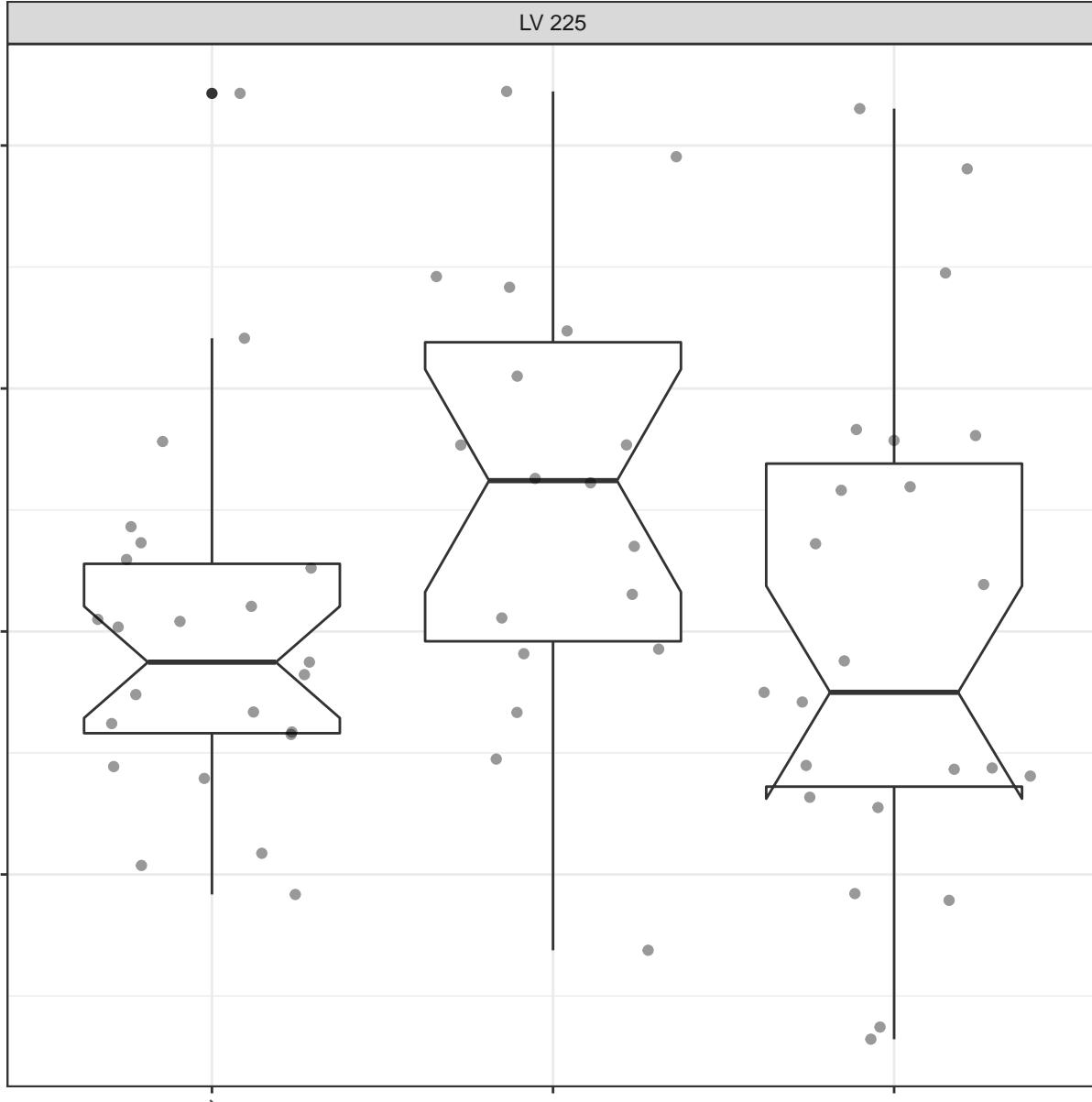
-0.025

Control

GPA\_signature

GPAneg

GPAPos



LV 226

Value

0.04

0.00

-0.04

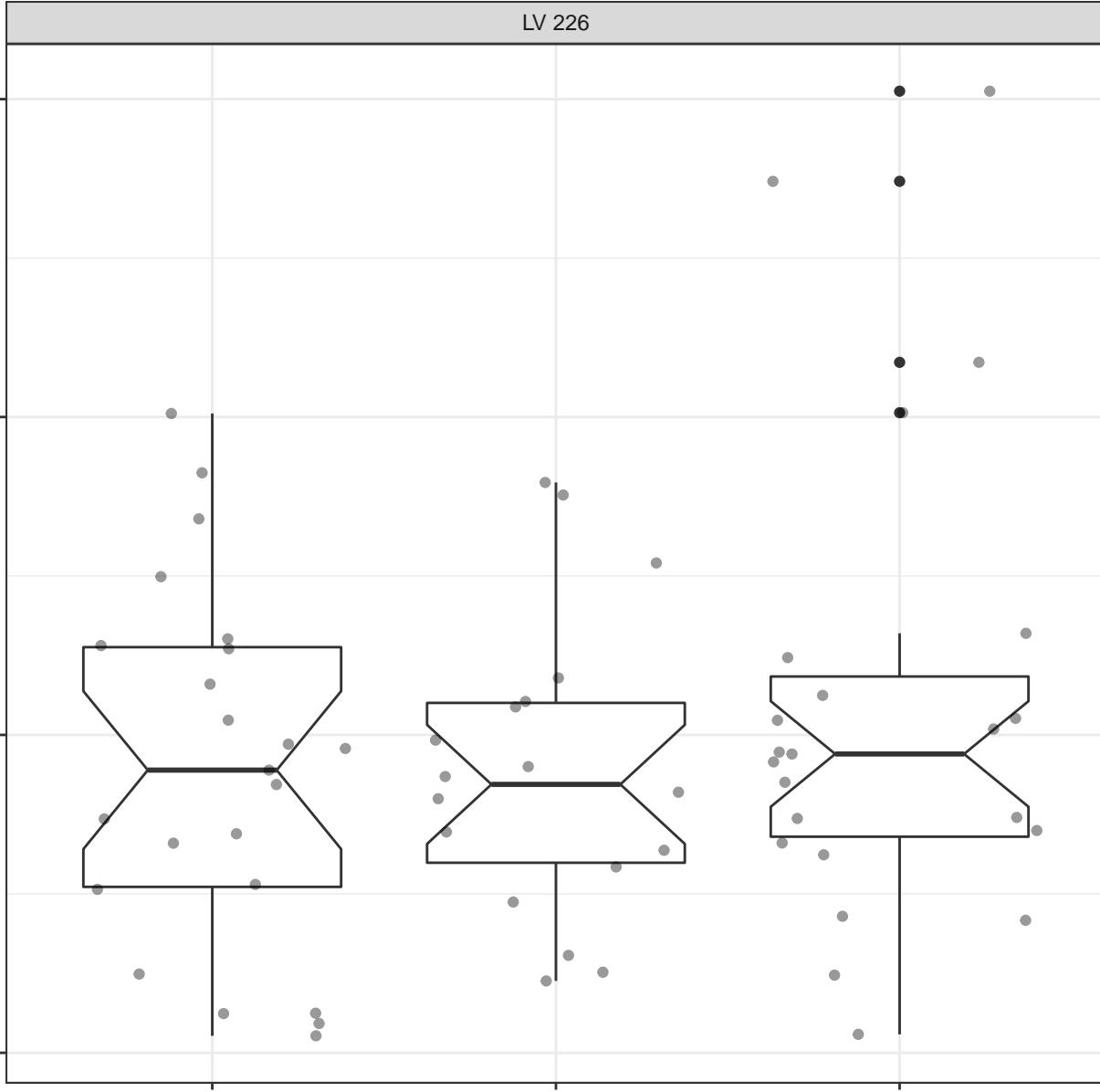
-0.08

Control

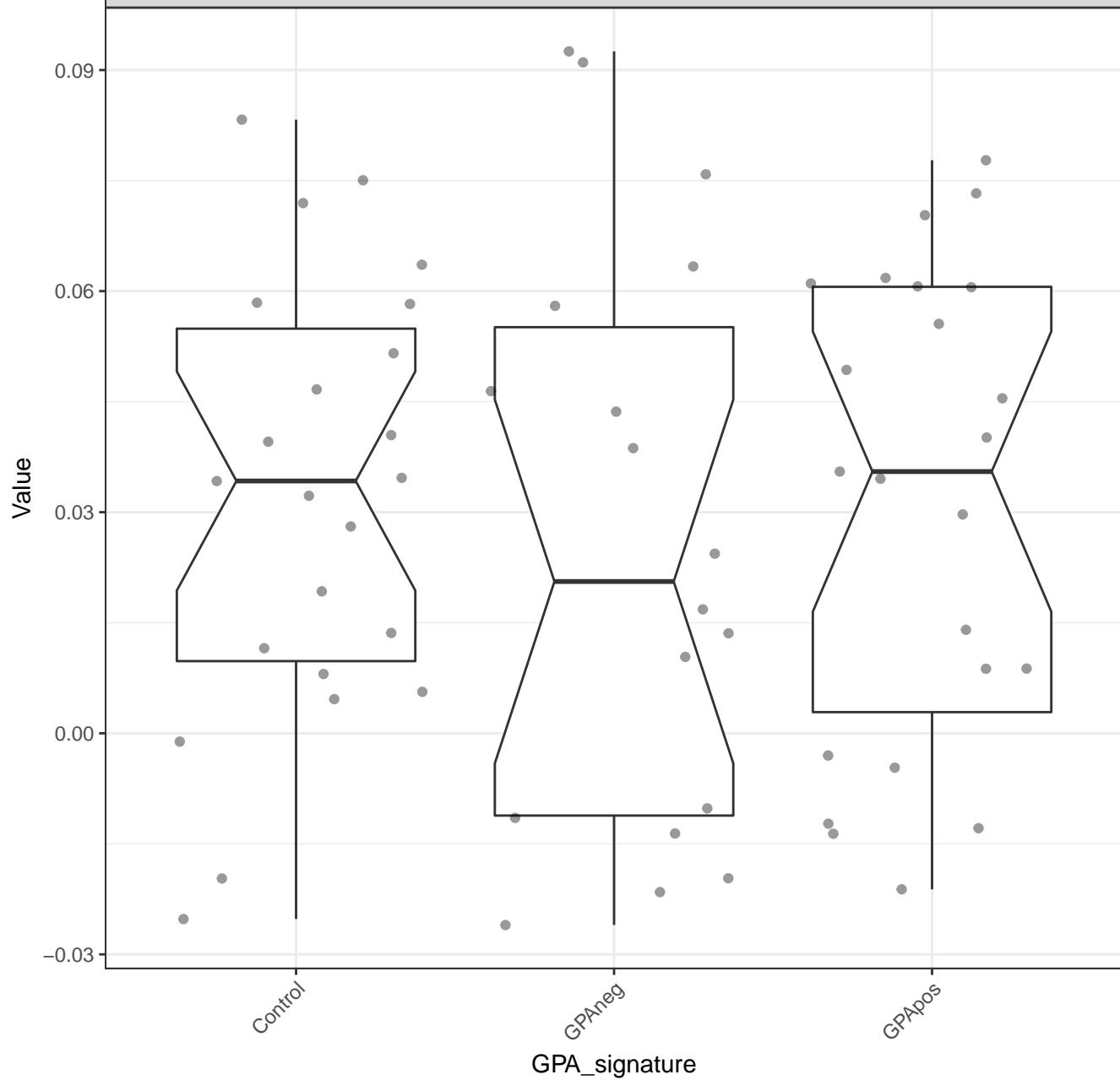
GPA\_signature

GPAneg

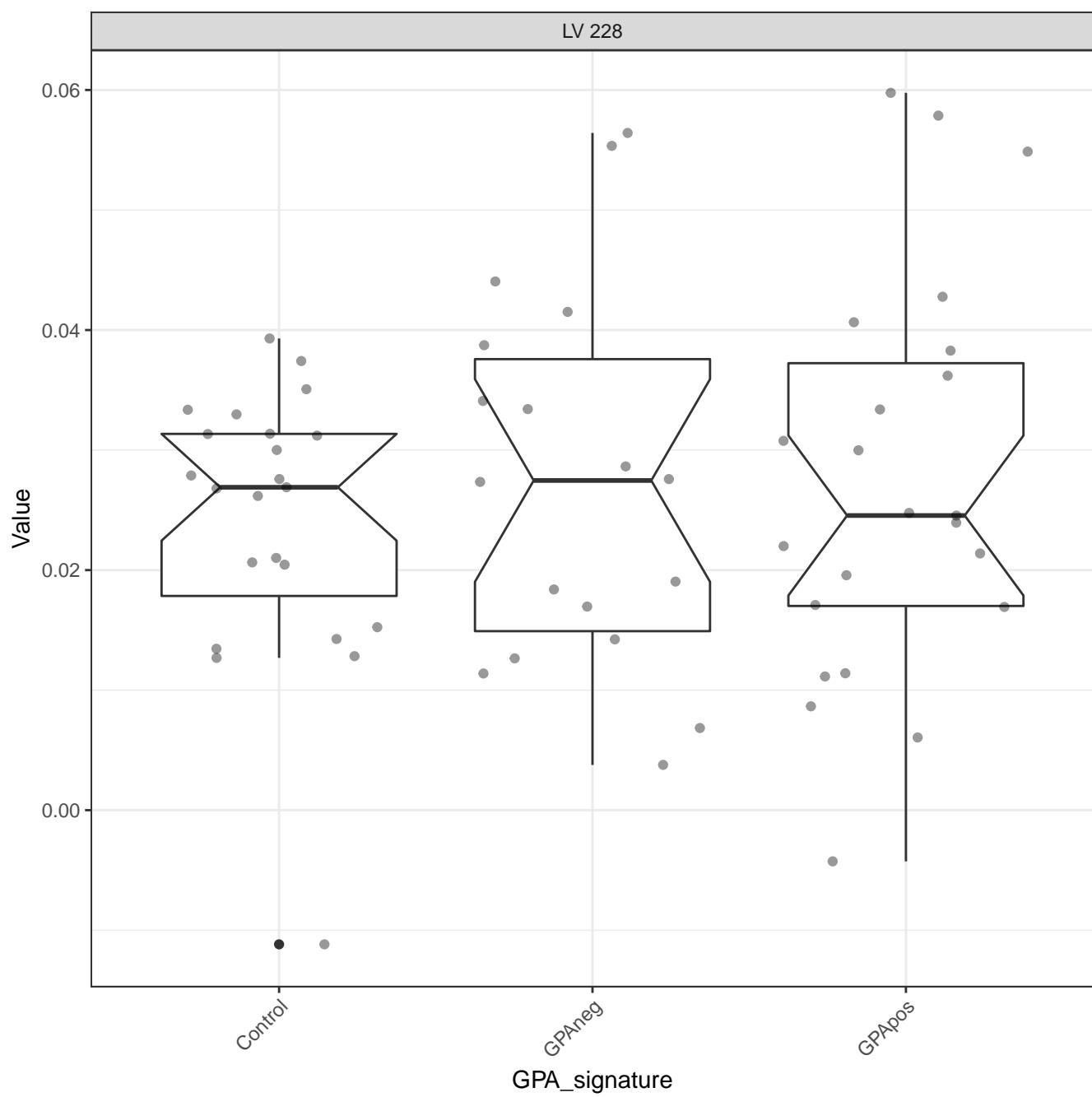
GPApos

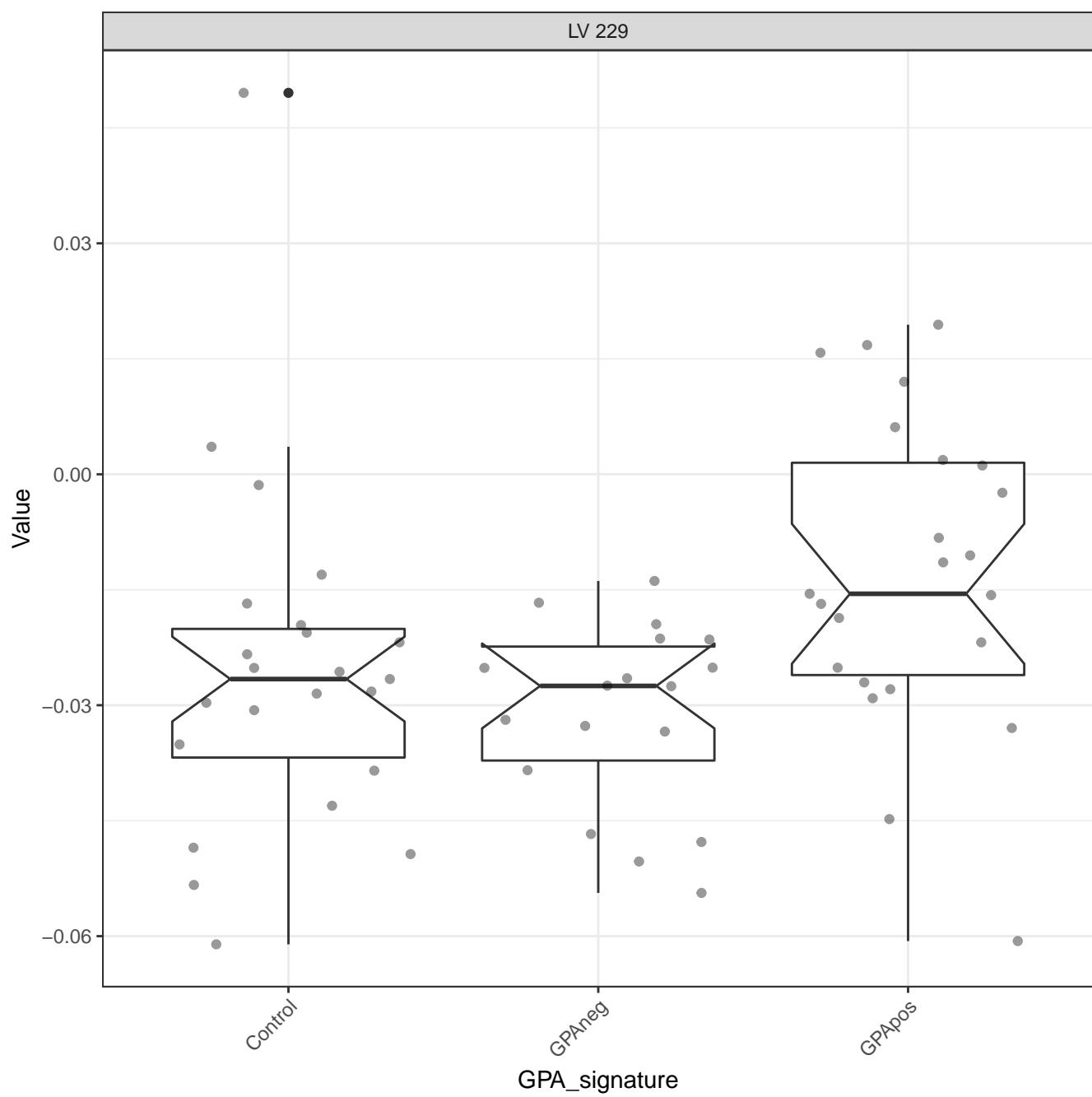


LV 227

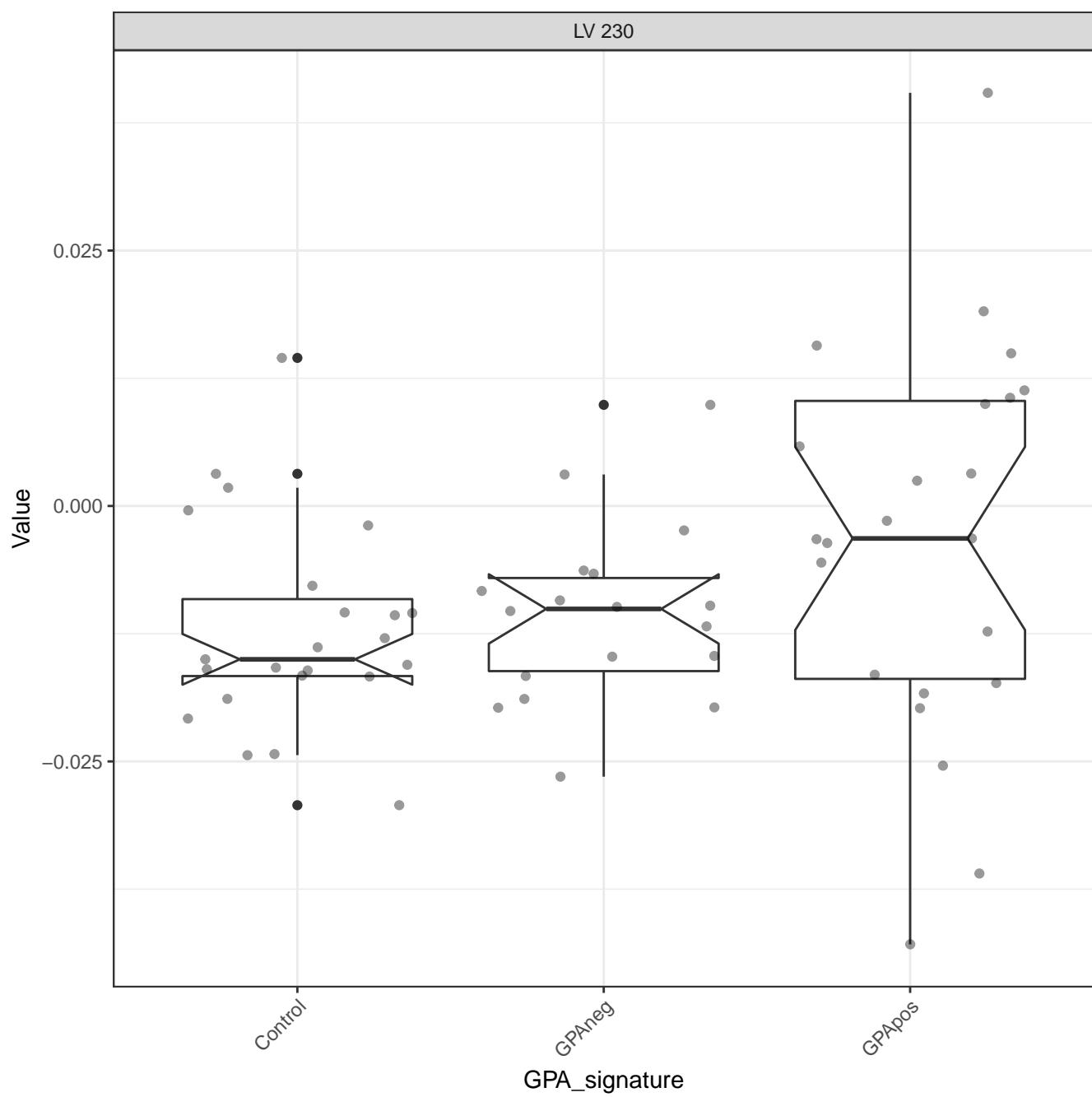


LV 228

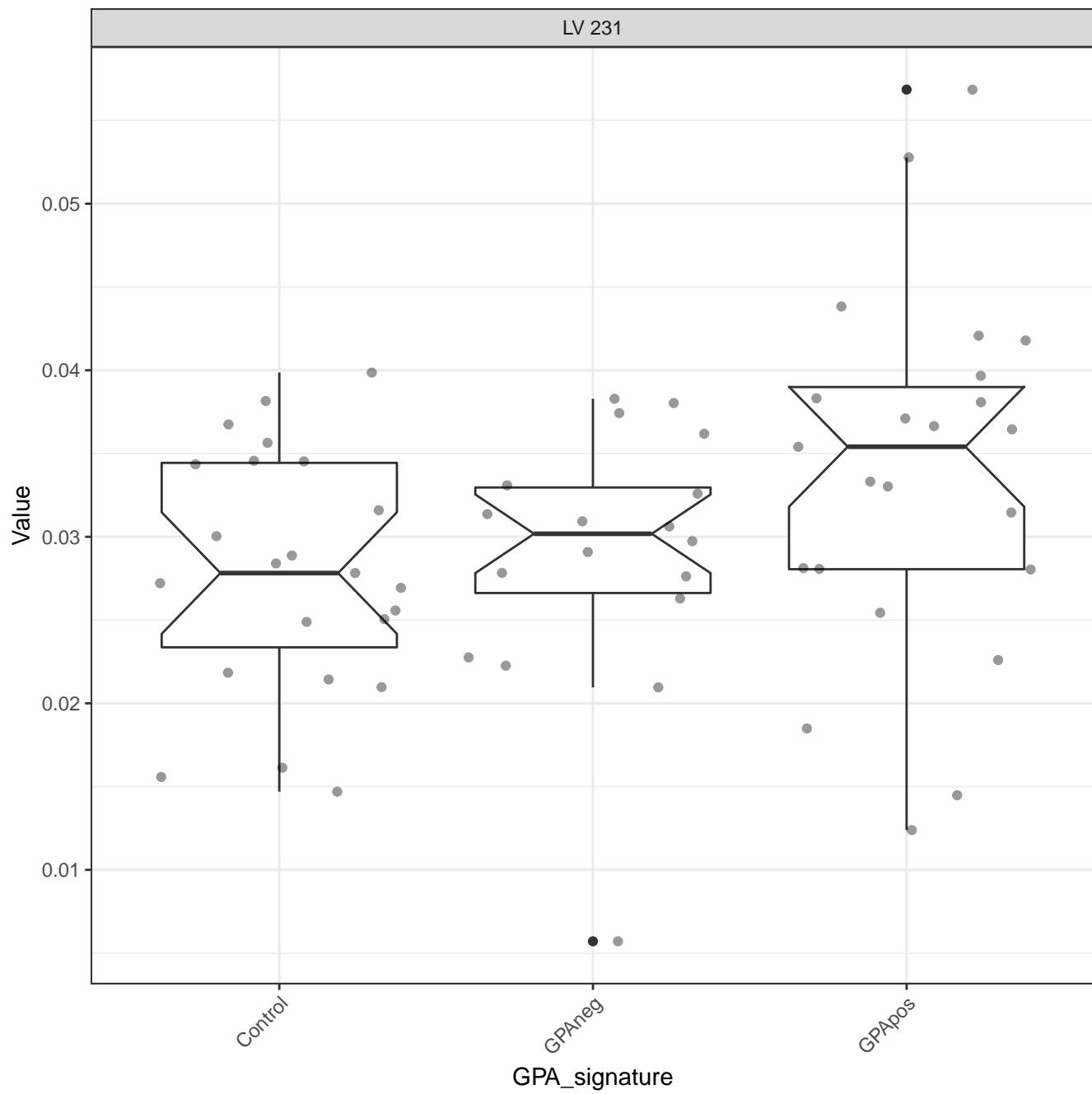


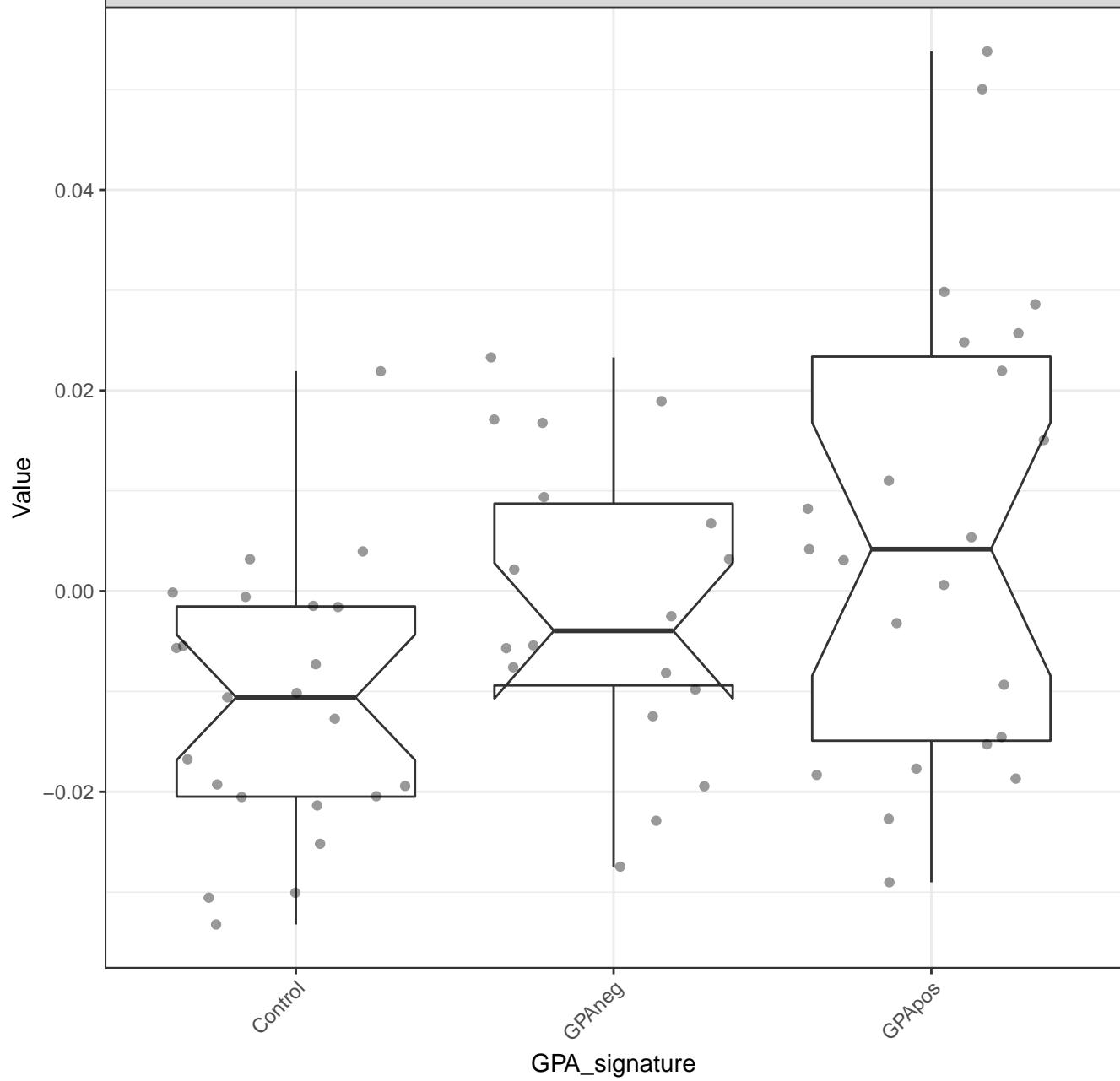


## LV 230



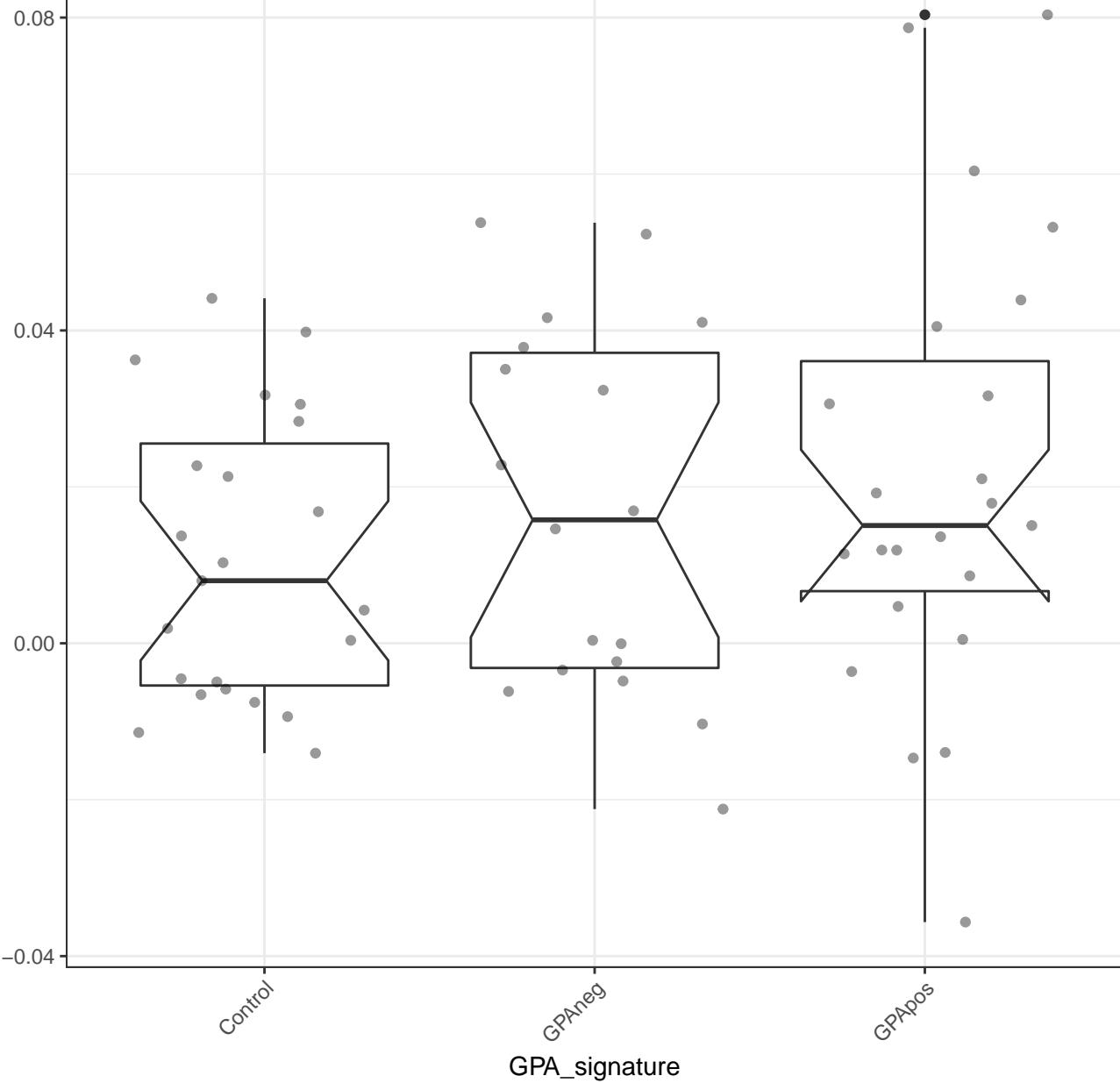
## LV 231





LV 233

Value



## 234,REACTOME\_RNA\_POL\_I\_PROMOTER\_OPENING

Value

0.025

0.000

-0.025

-0.050

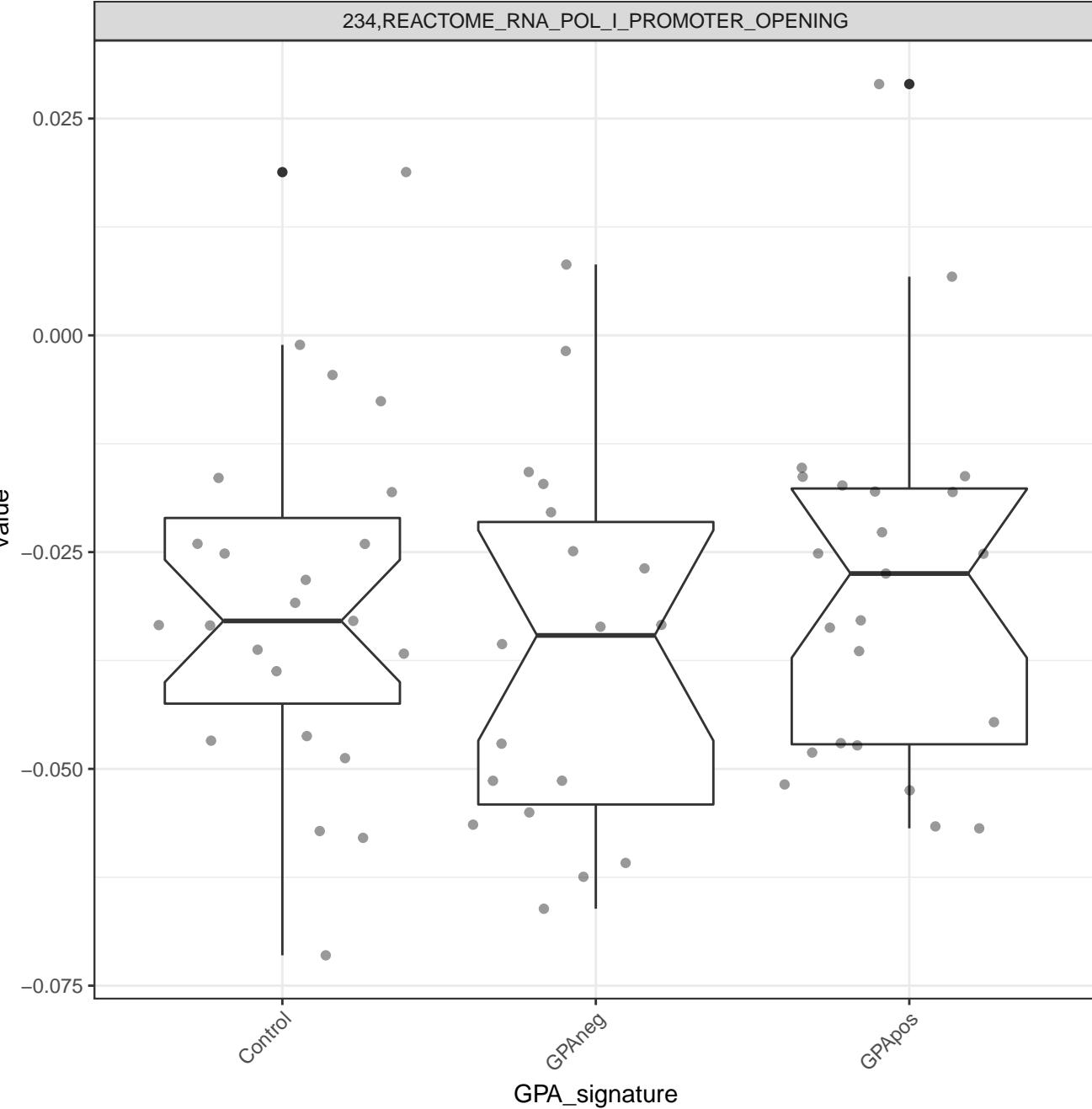
-0.075

Control

GPA\_signature

GPAneg

GPAPos



## LV 235

Value

0.050

0.025

0.000

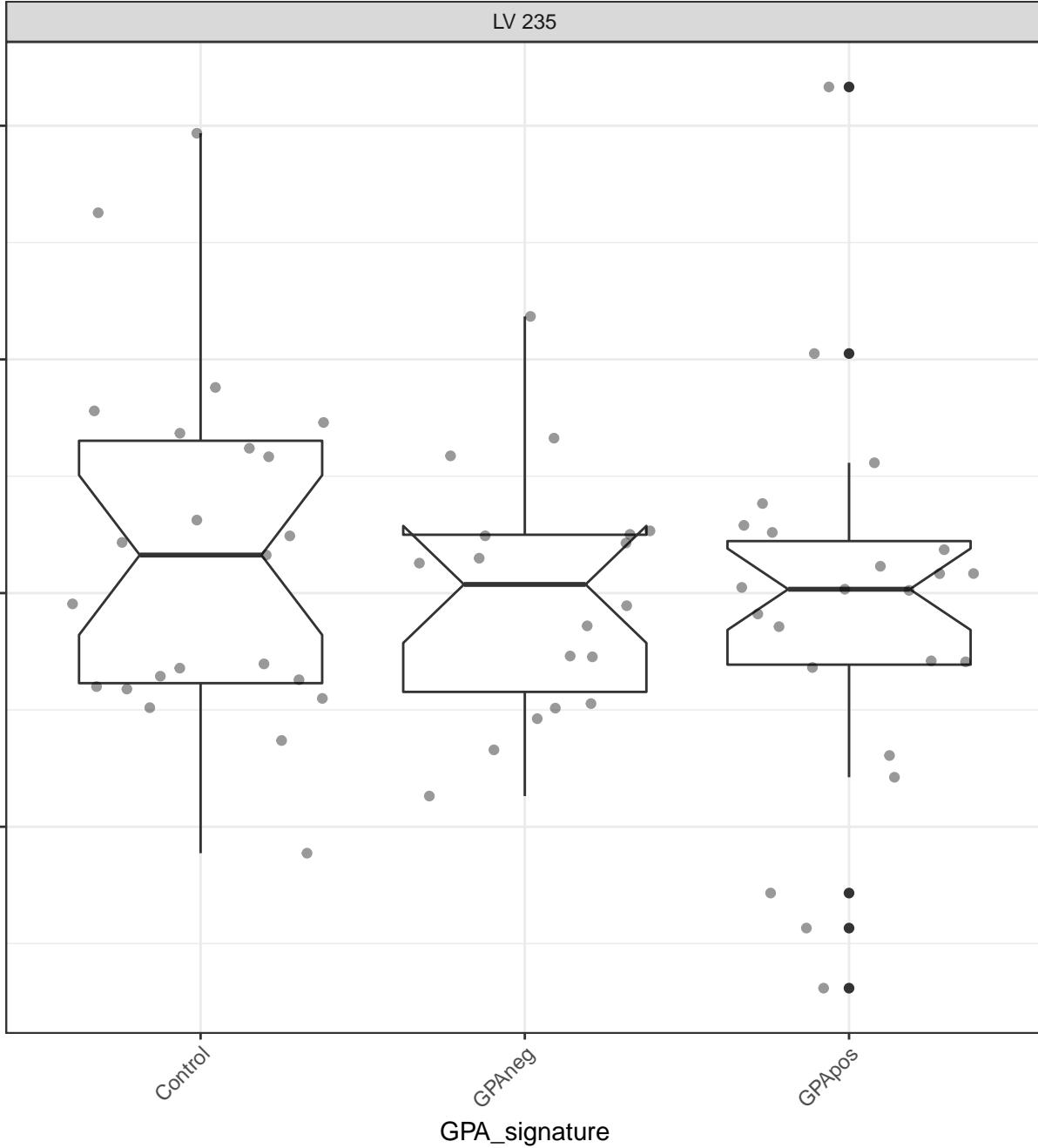
-0.025

Control

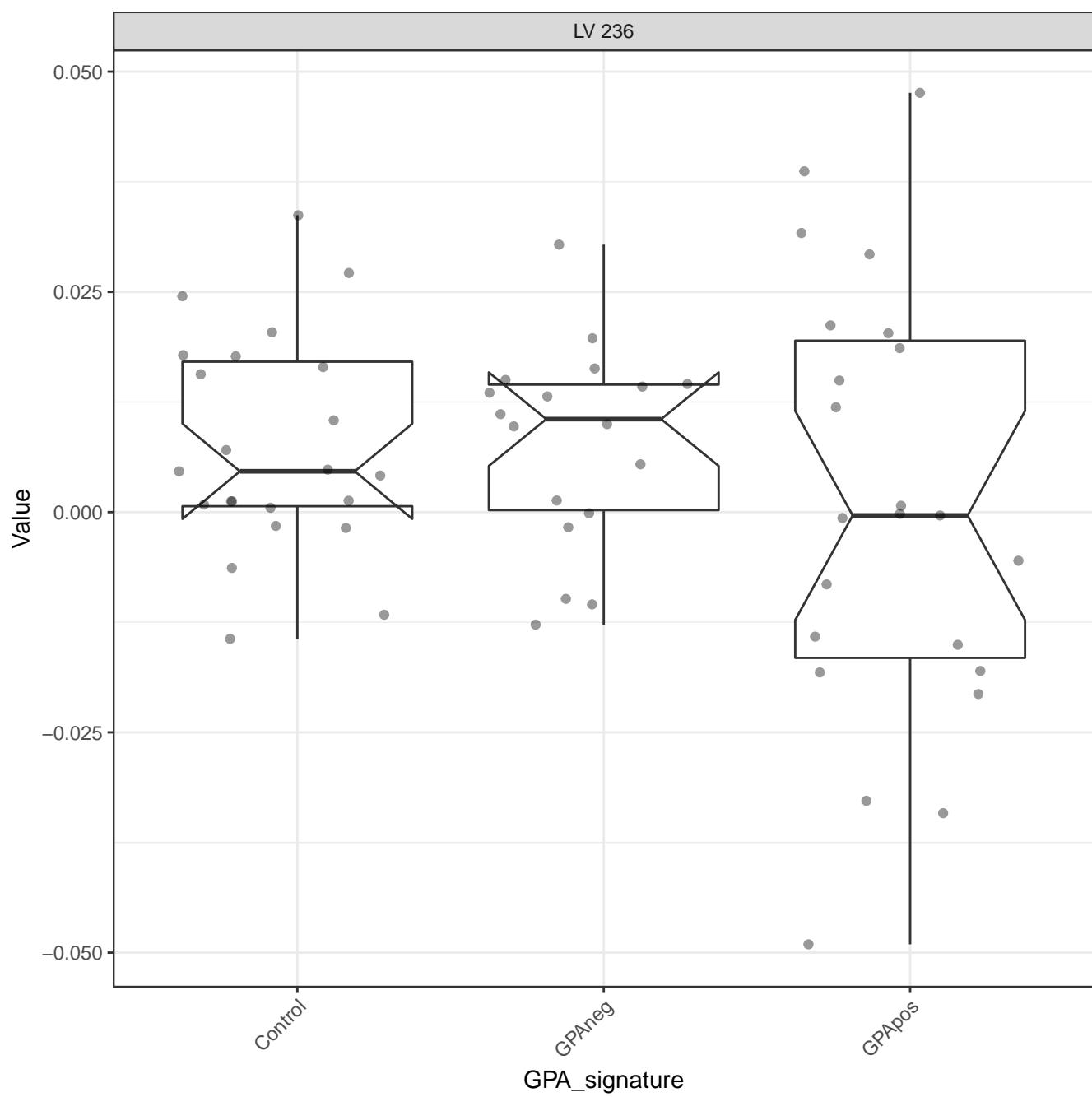
GPAneg

GPAPos

GPA\_signature

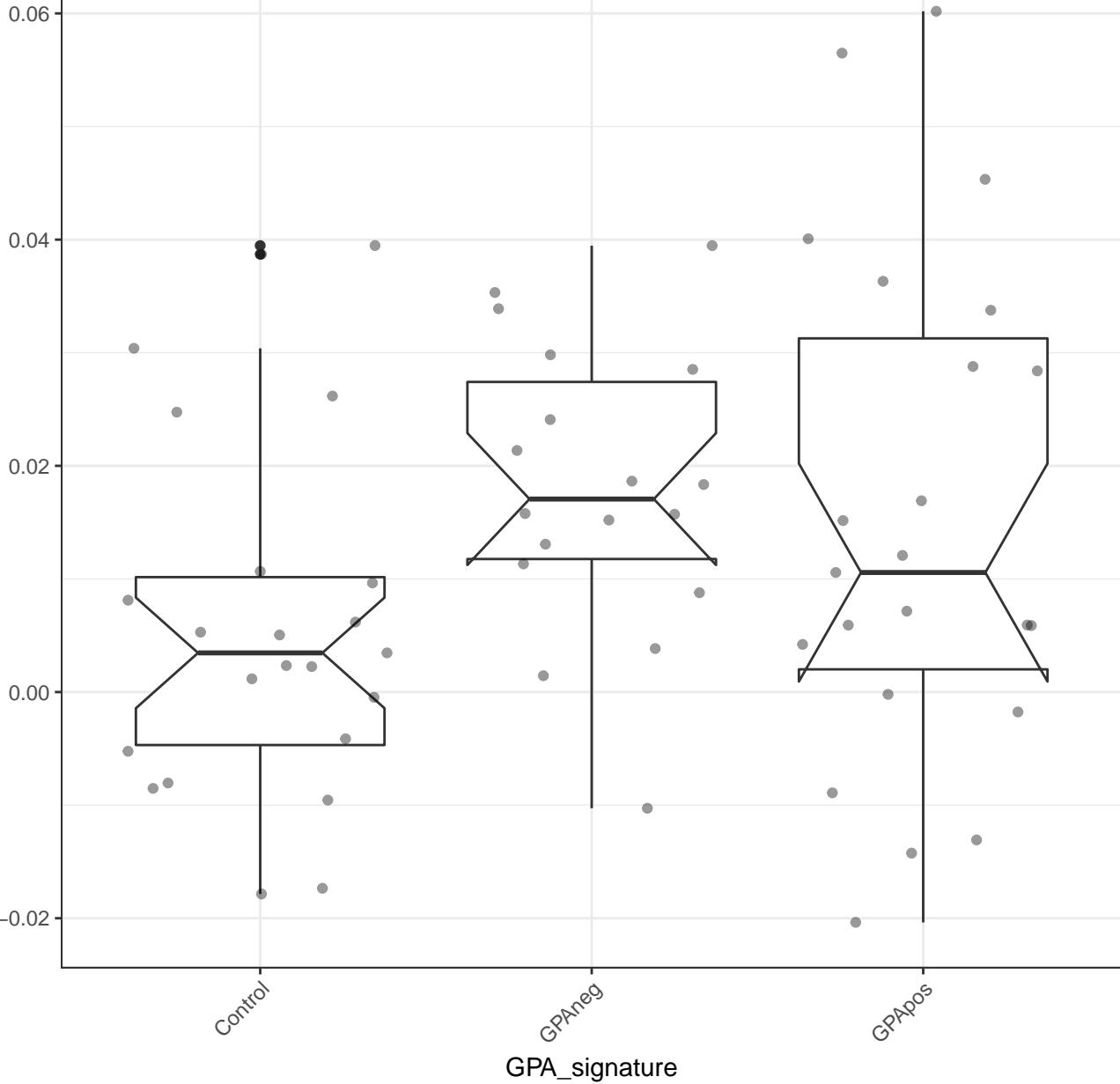


LV 236

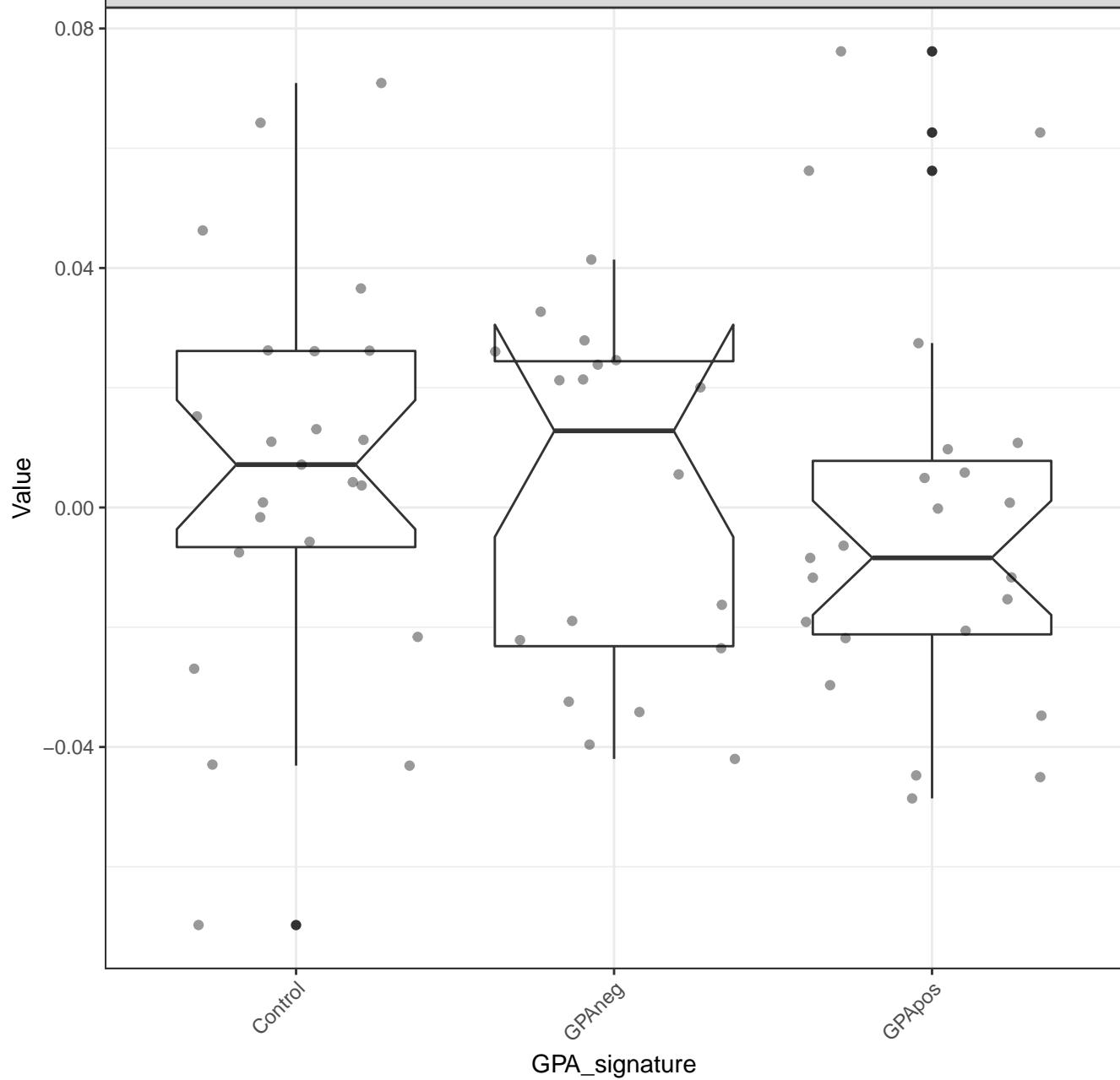


LV 237

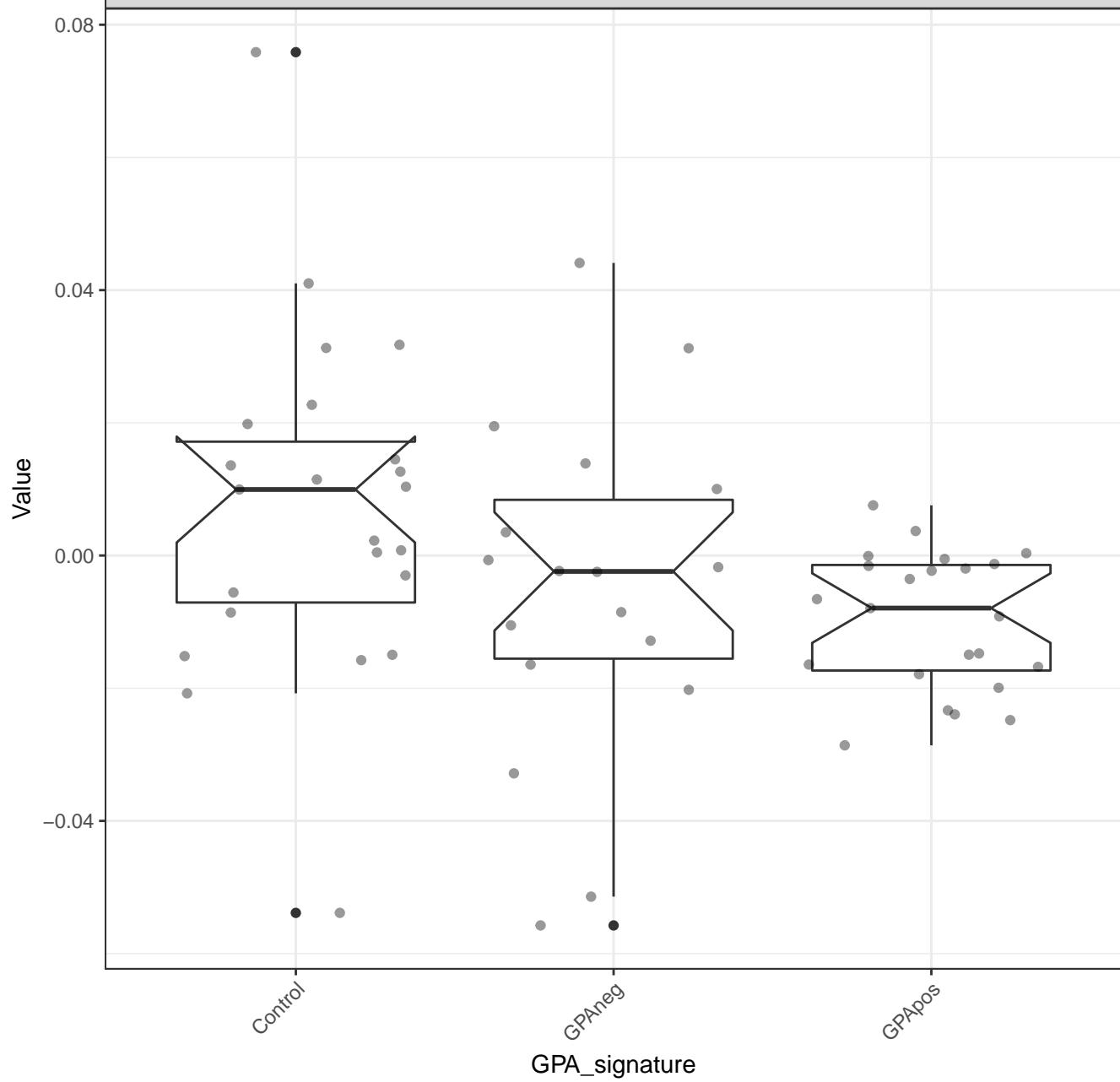
Value



LV 238



LV 239



Value

0.075

0.050

0.025

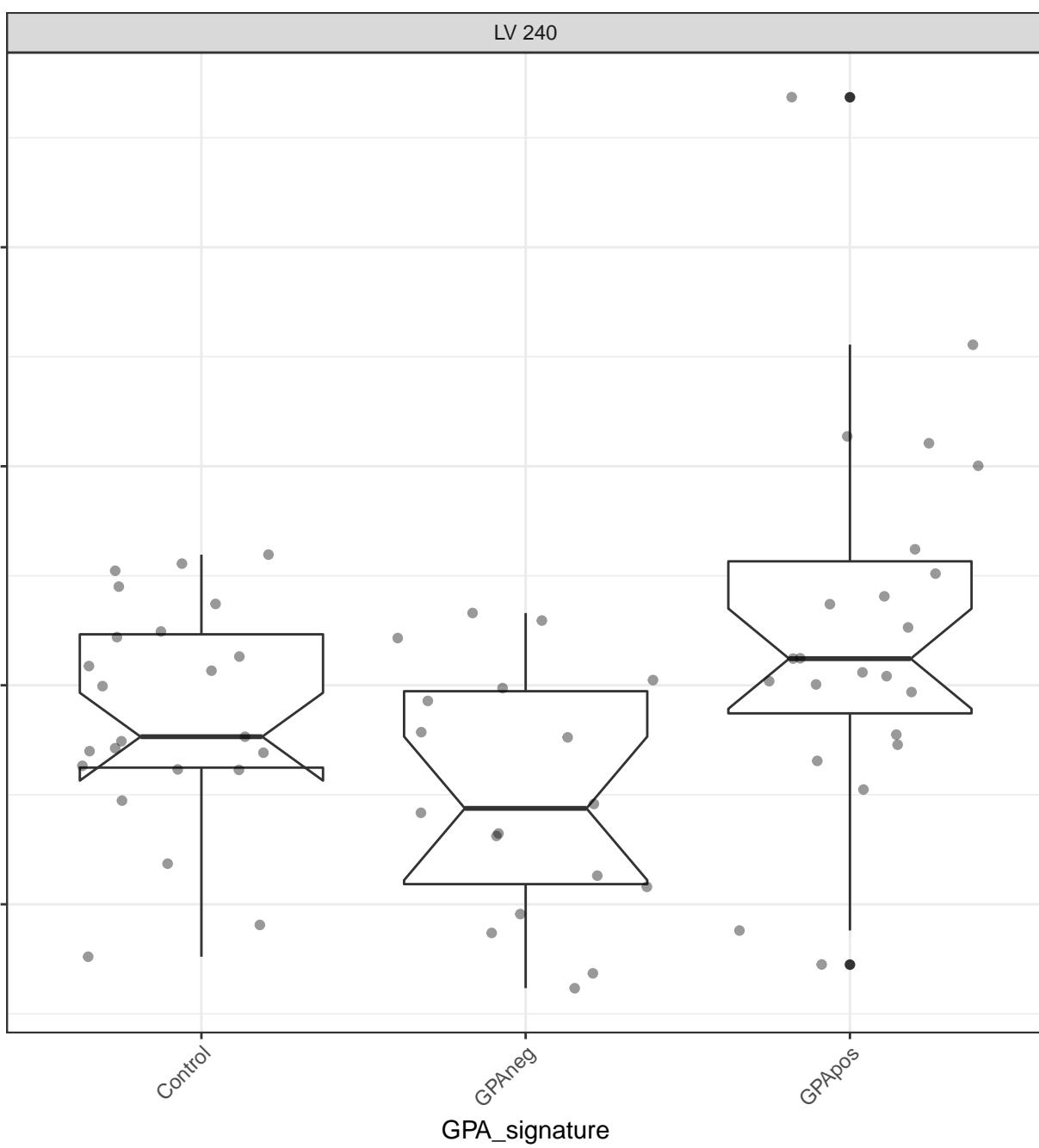
0.000

Control

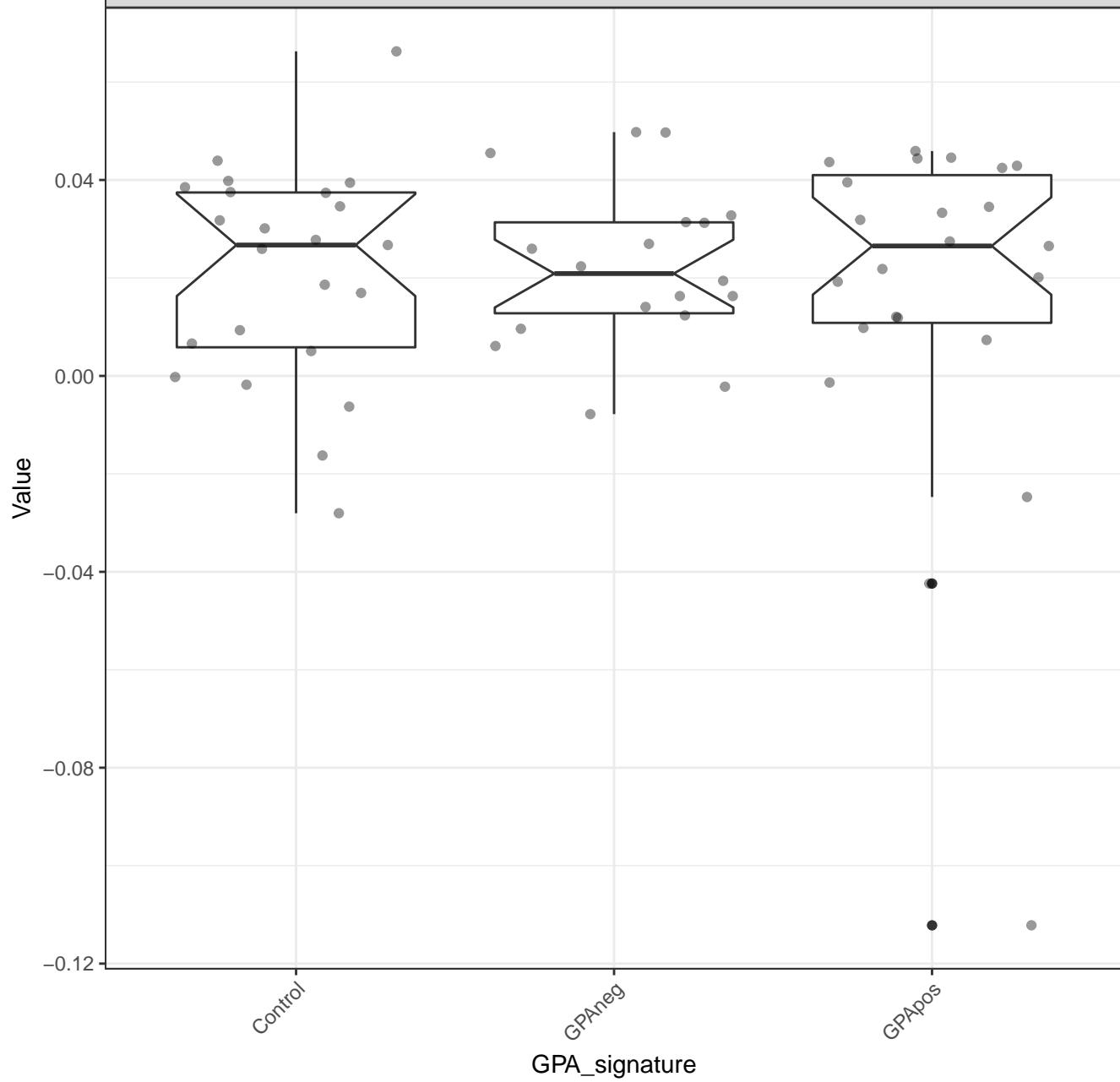
GPAneg

GPAPos

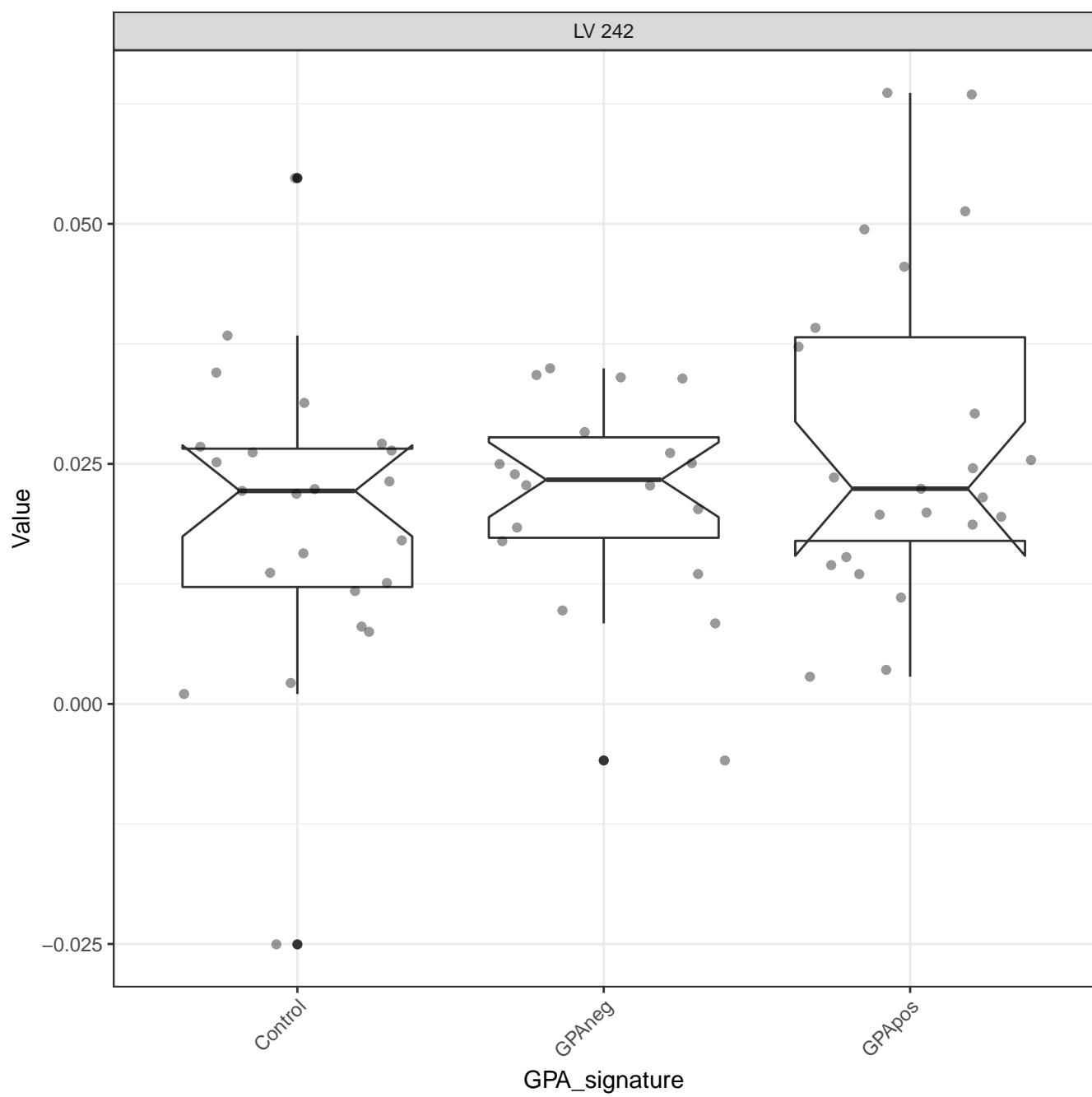
GPA\_signature

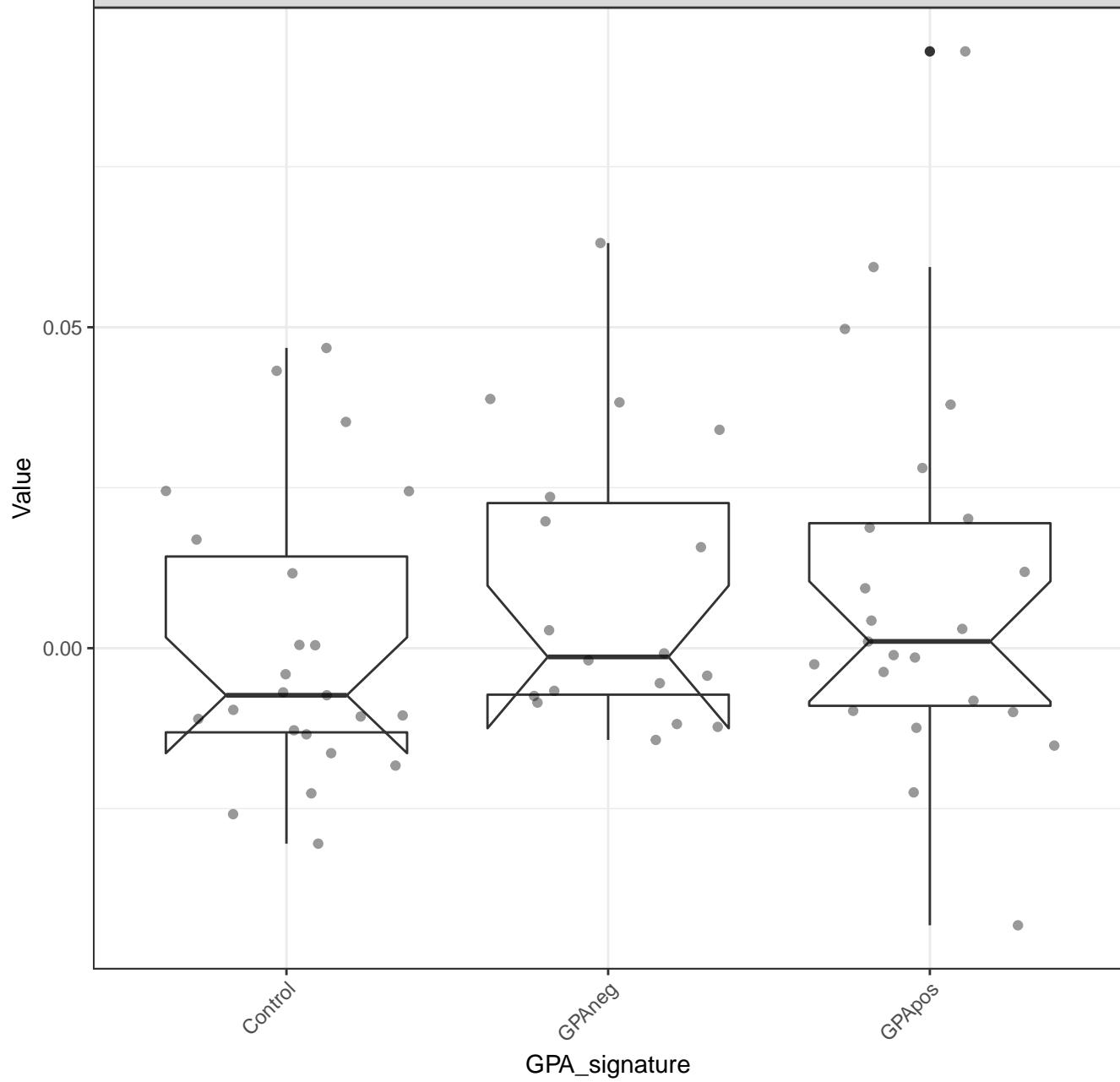


LV 241



## LV 242





## LV 244

Value

0.025

0.000

-0.025

-0.050

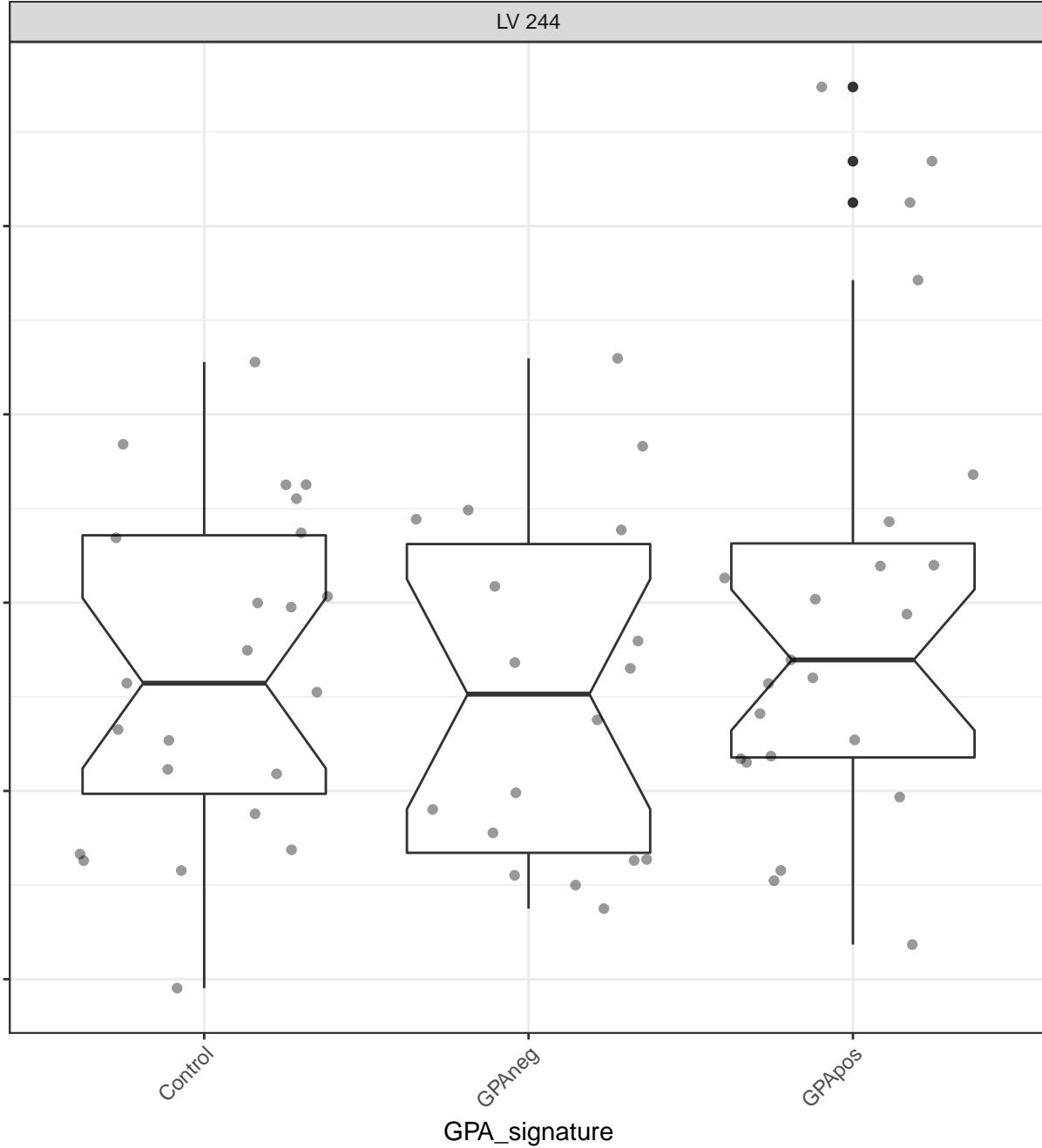
-0.075

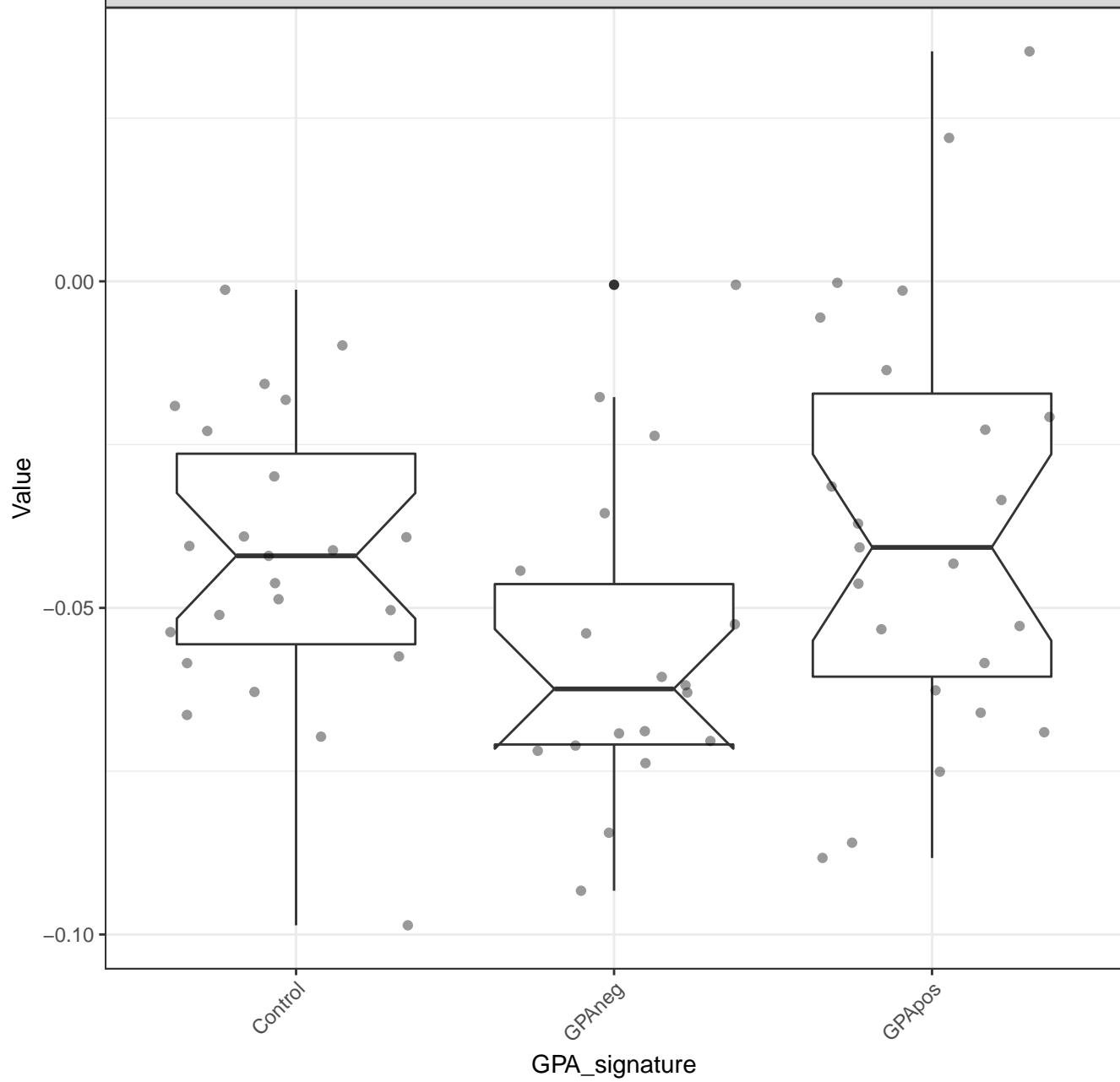
Control

GPAneg

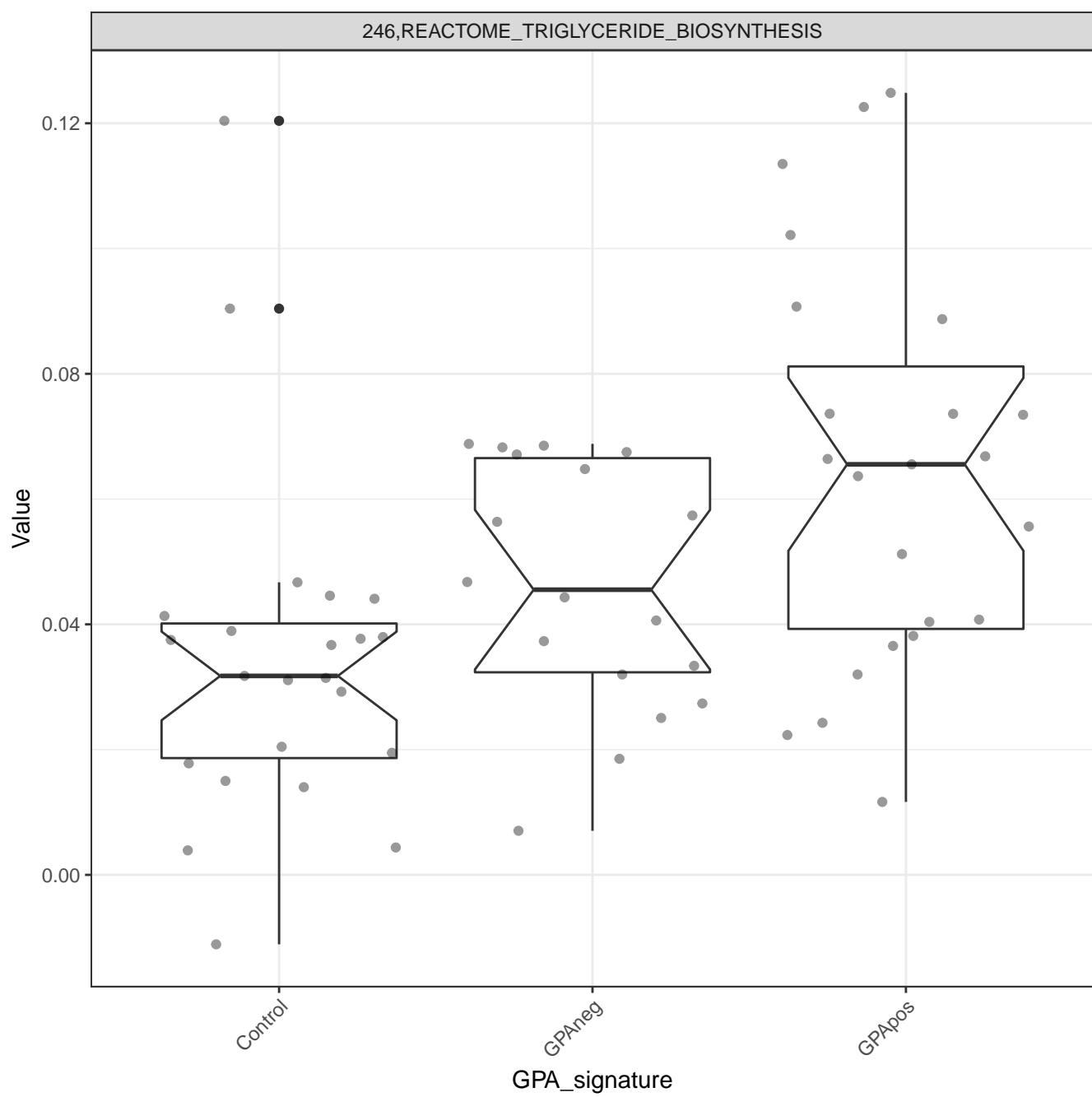
GPAPos

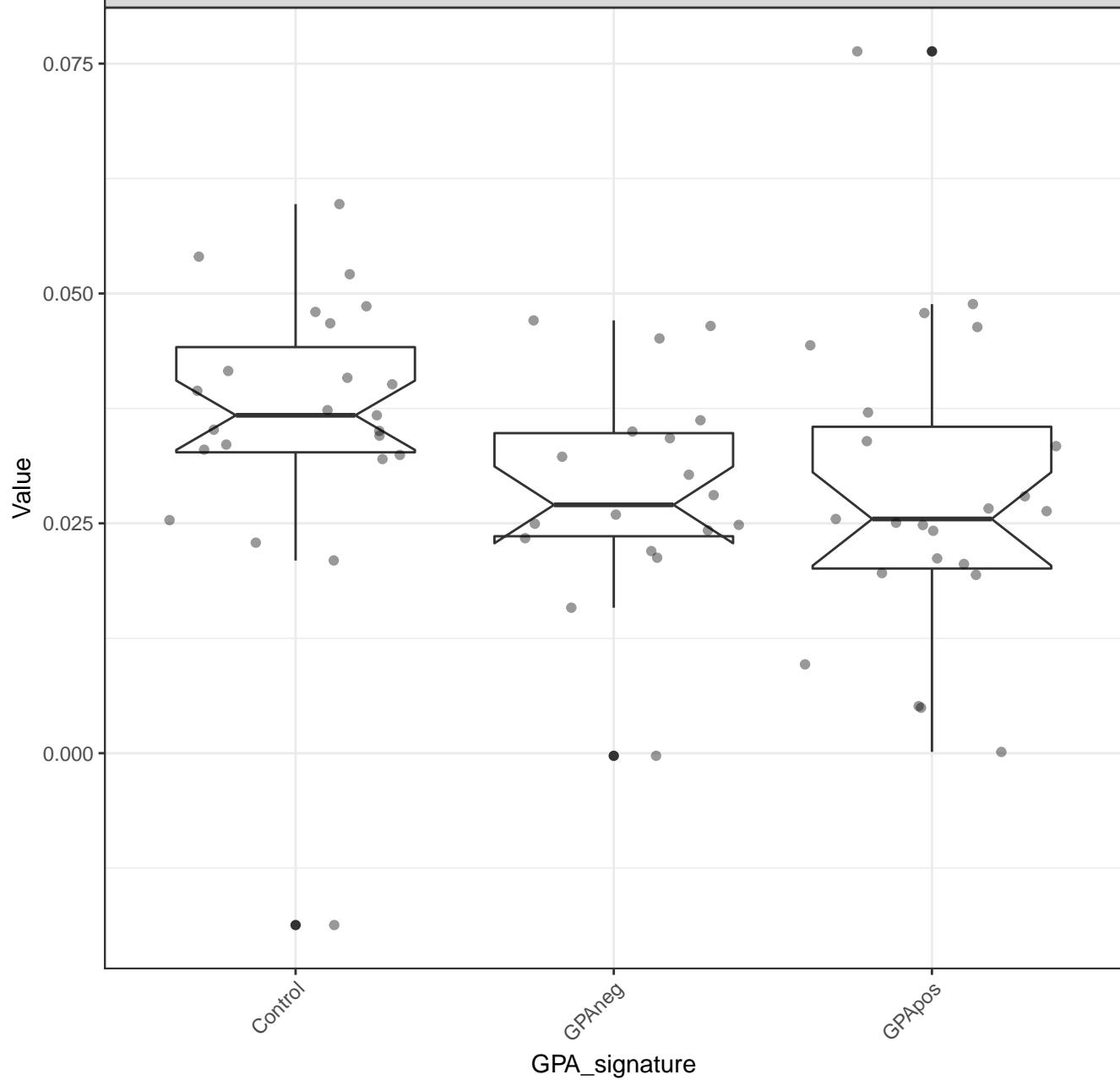
GPA\_signature



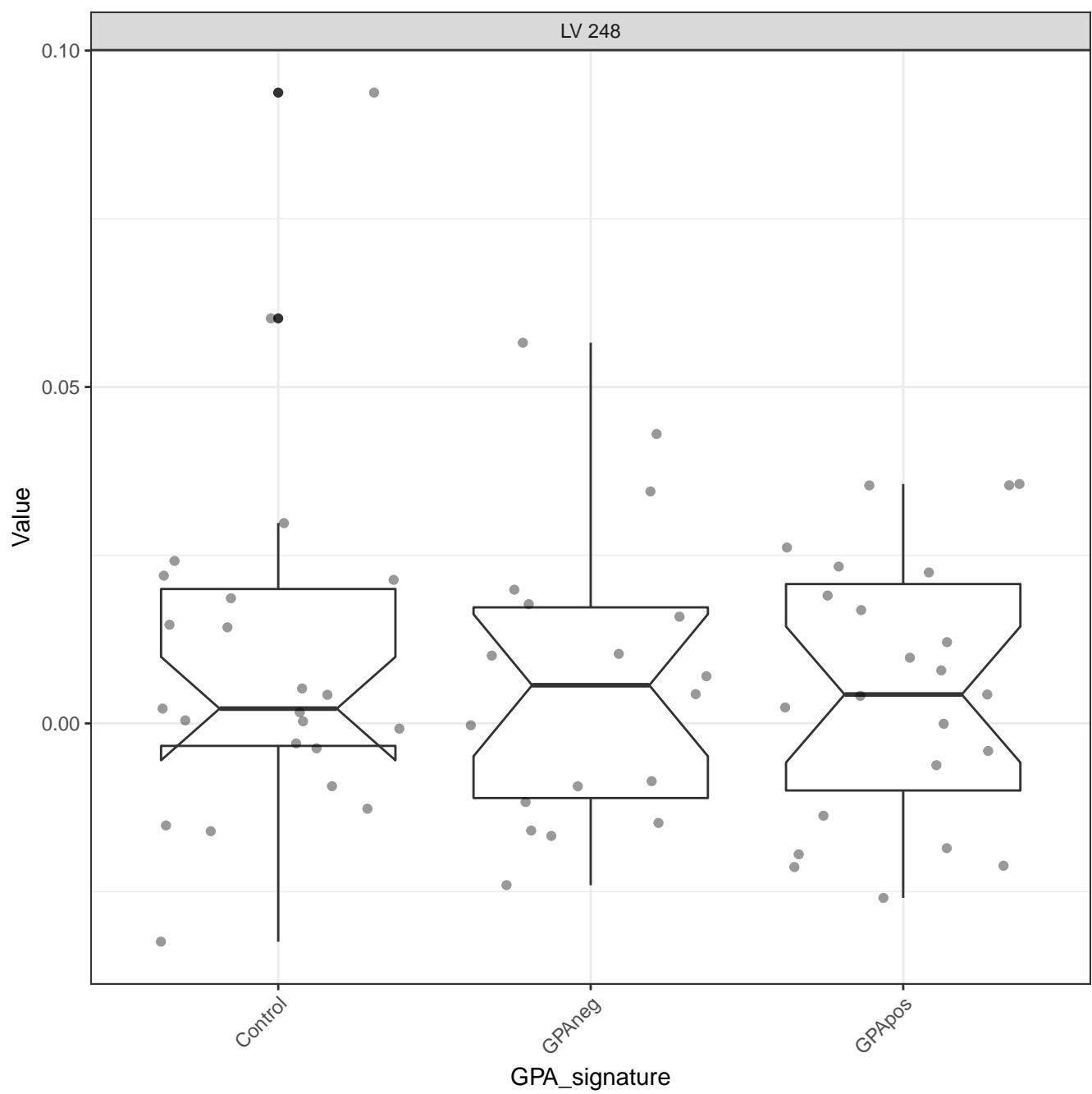


## 246,REACTOME\_TRIGLYCERIDE BIOSYNTHESIS



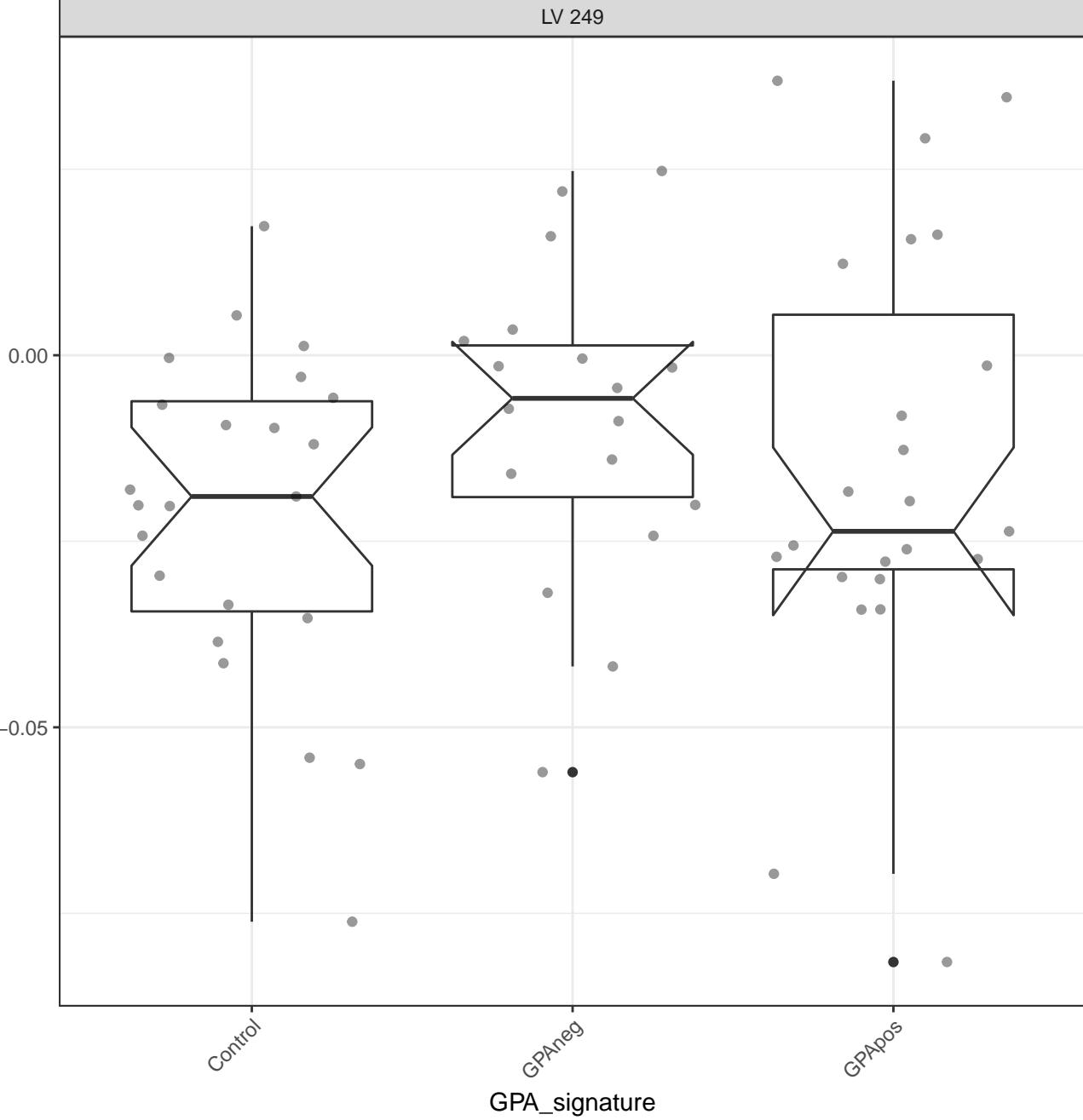


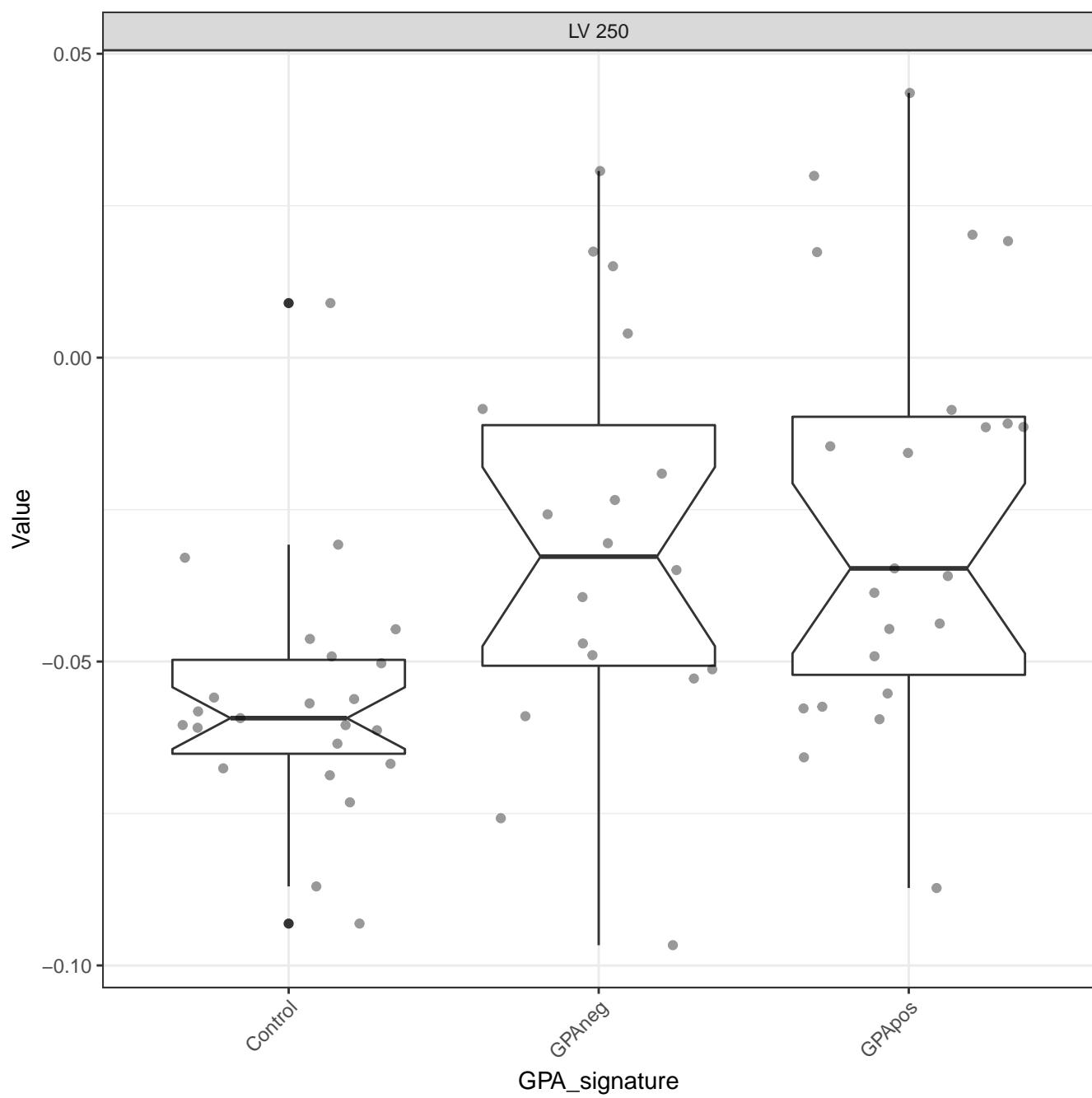
LV 248



LV 249

Value





Value

0.12

0.08

0.04

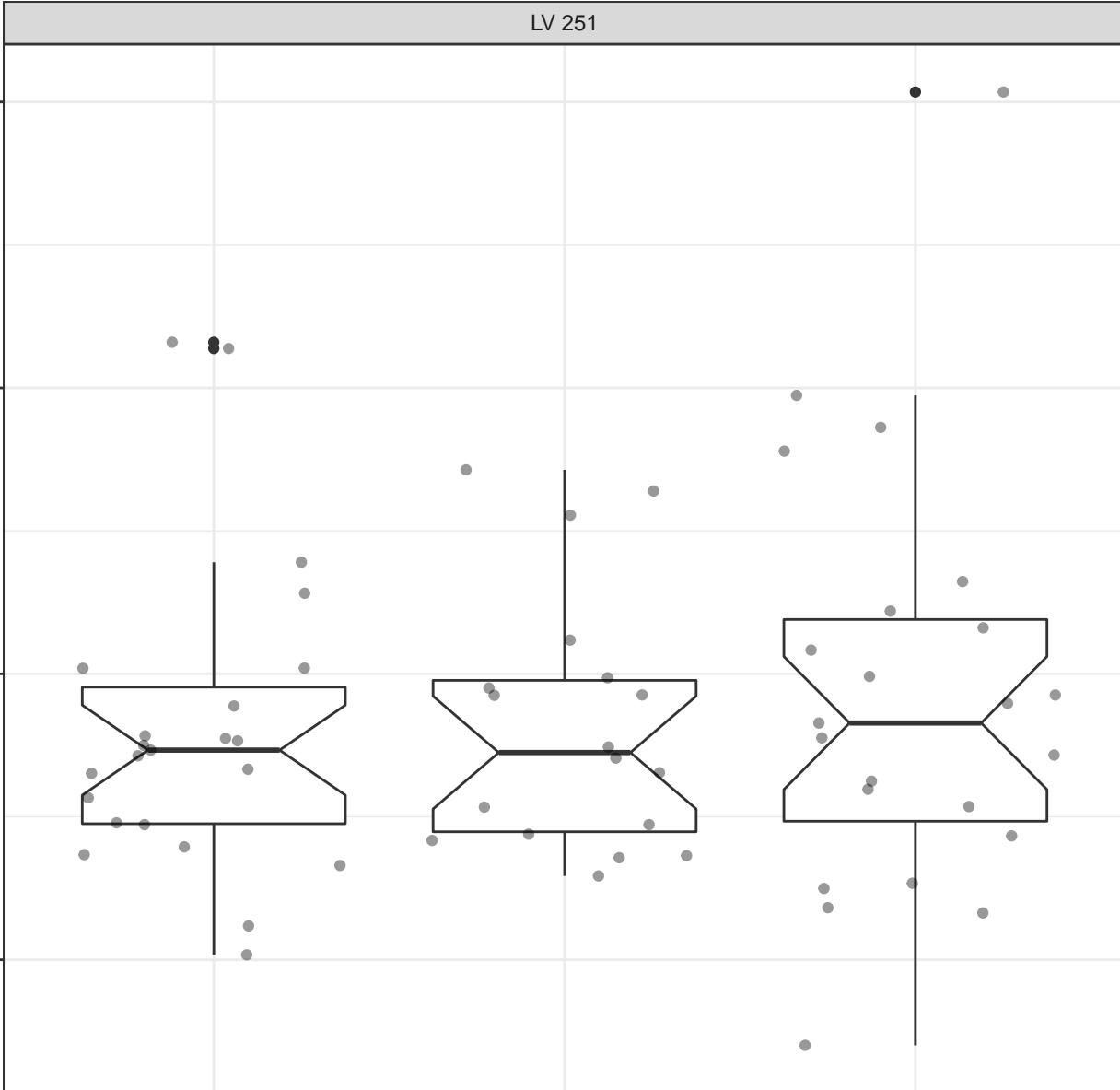
0.00

Control

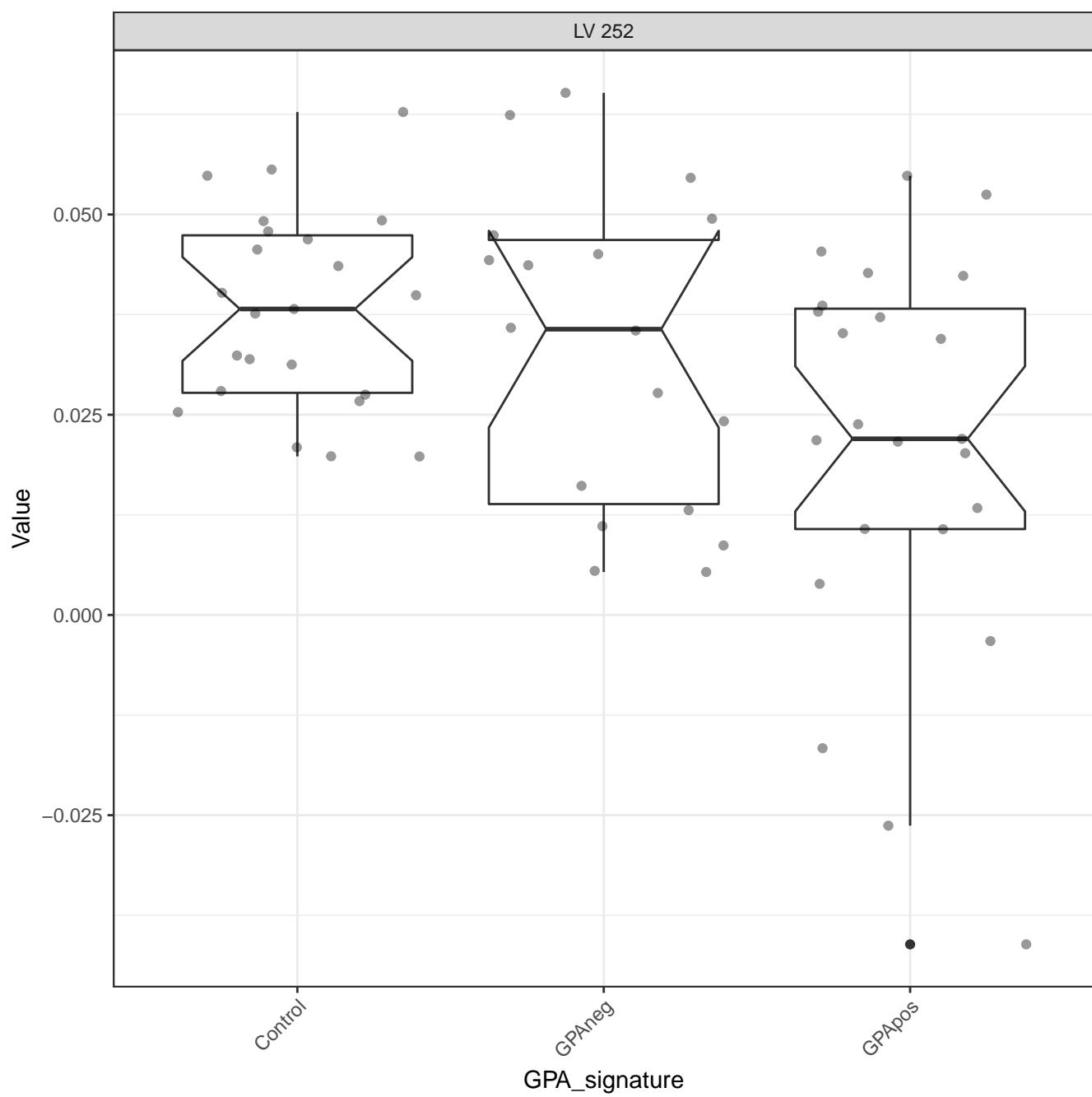
GPA\_signature

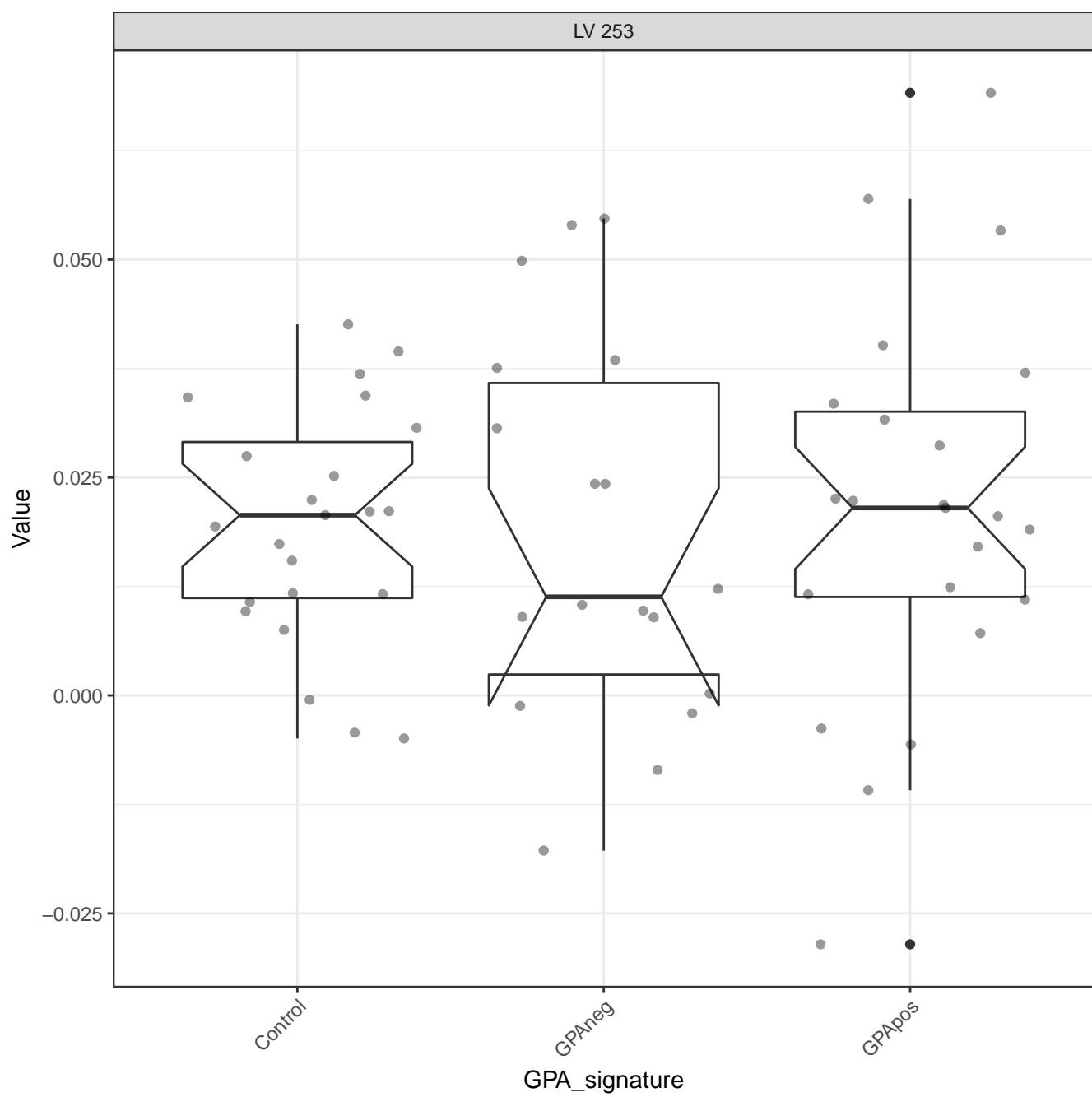
GPAneg

GPAPos

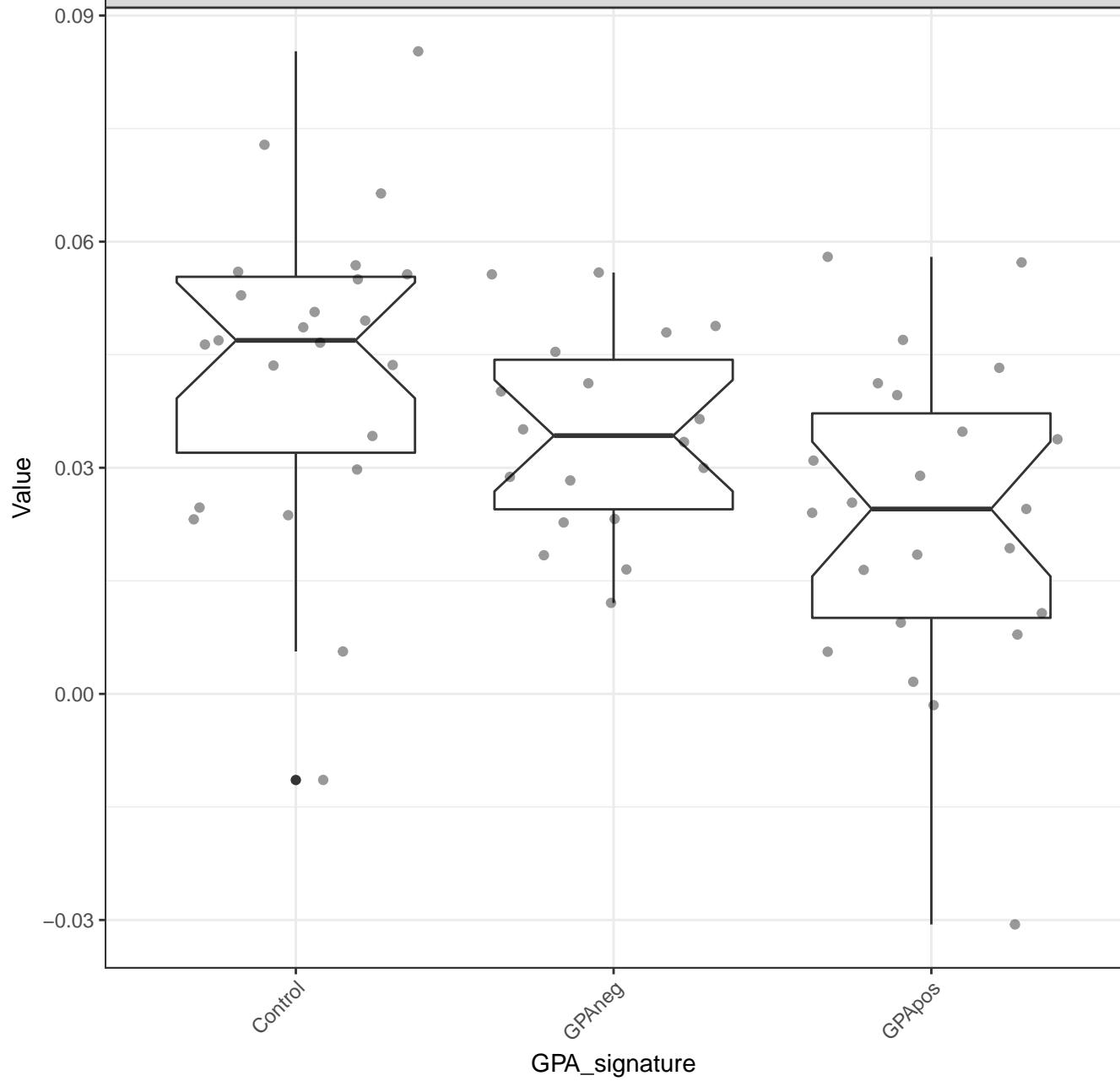


## LV 252

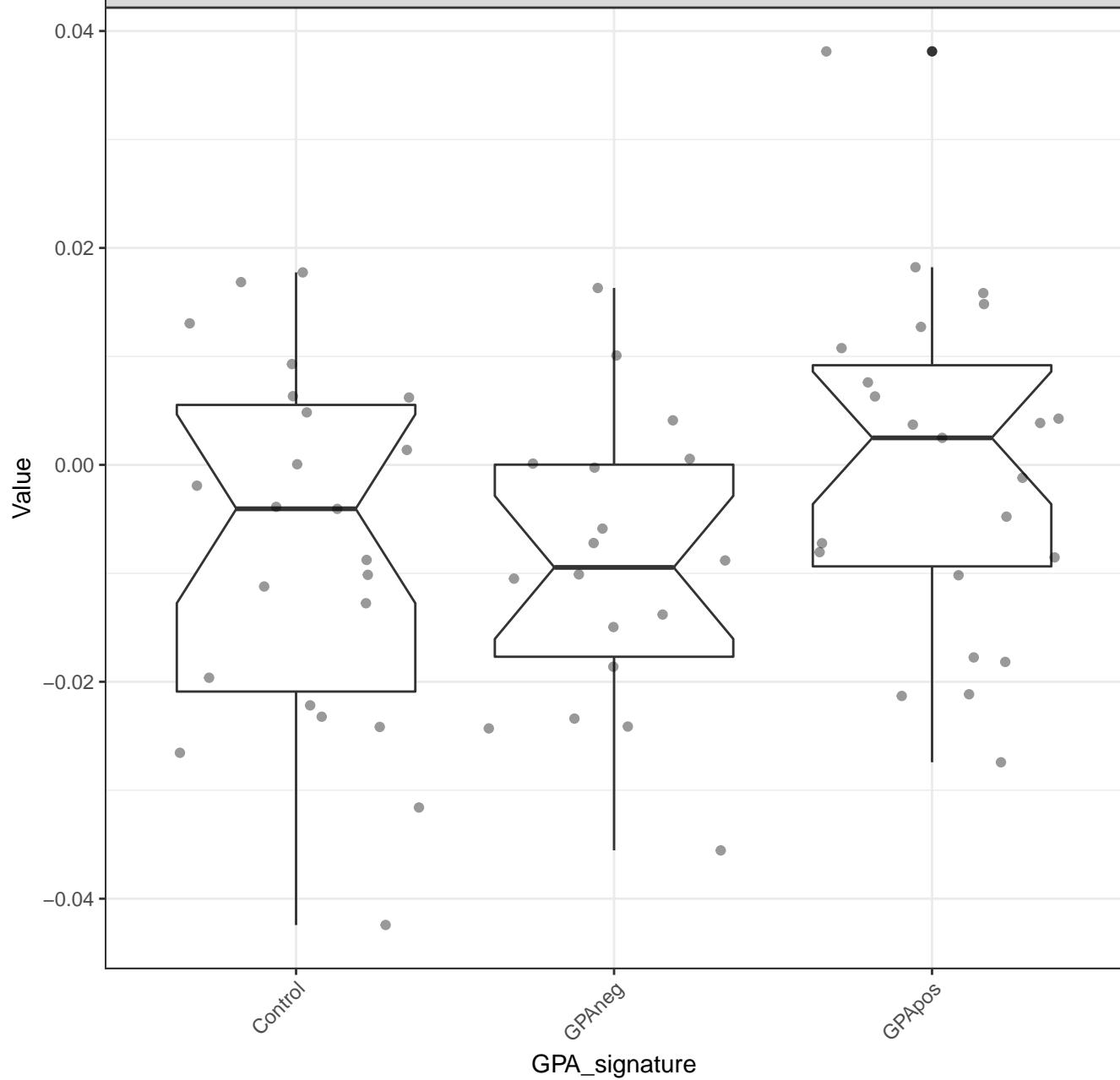




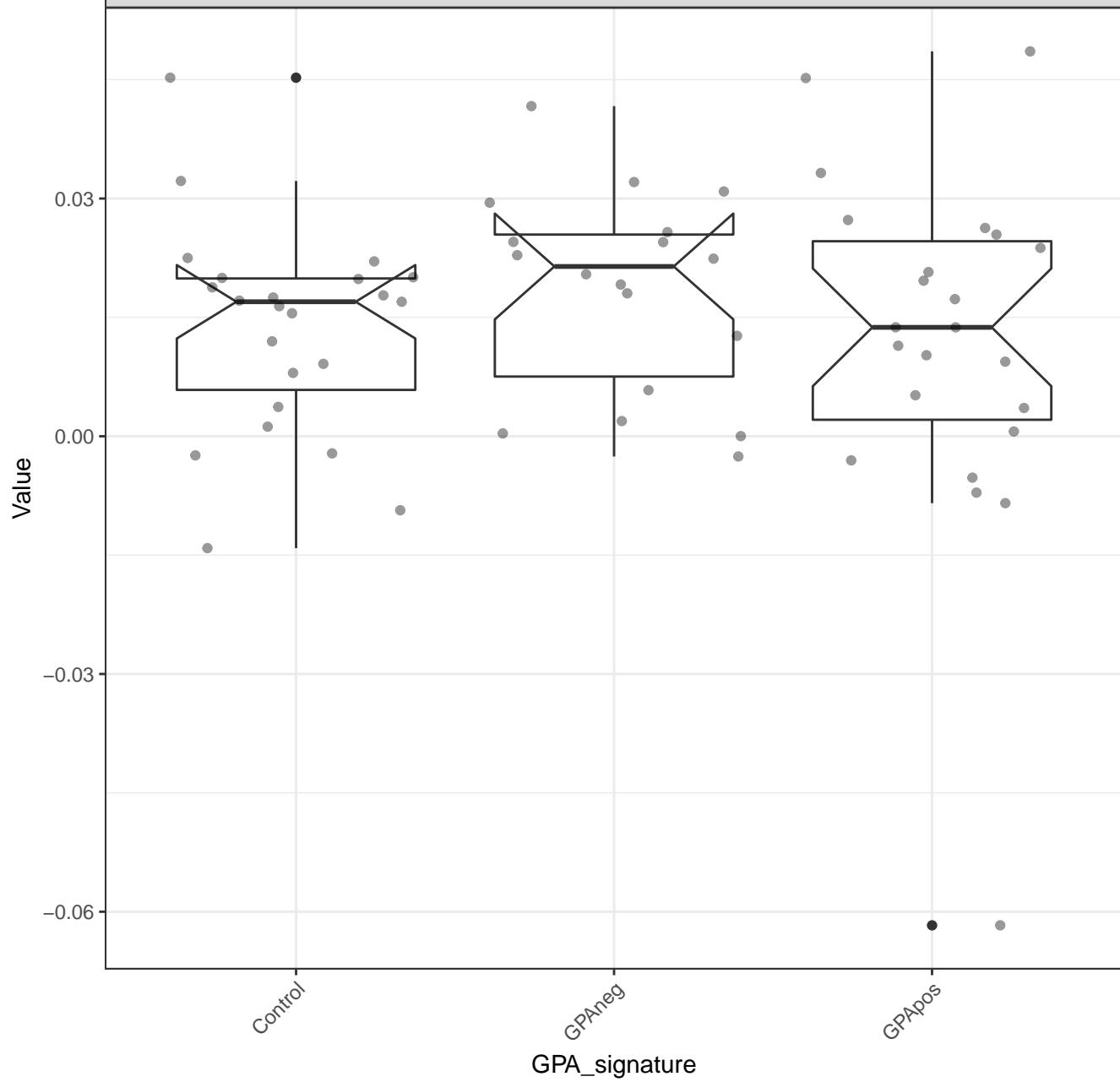
LV 254



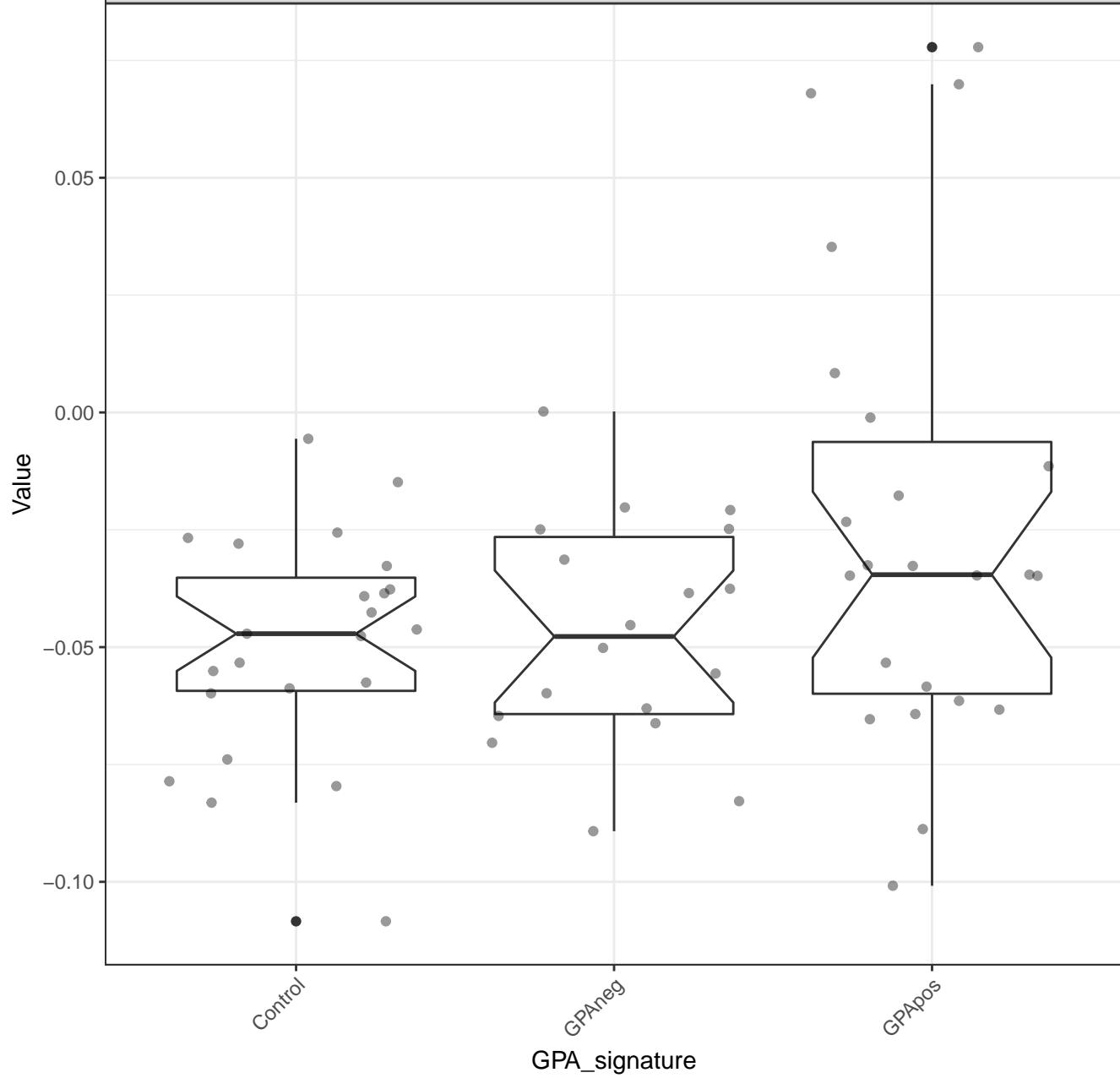
LV 255

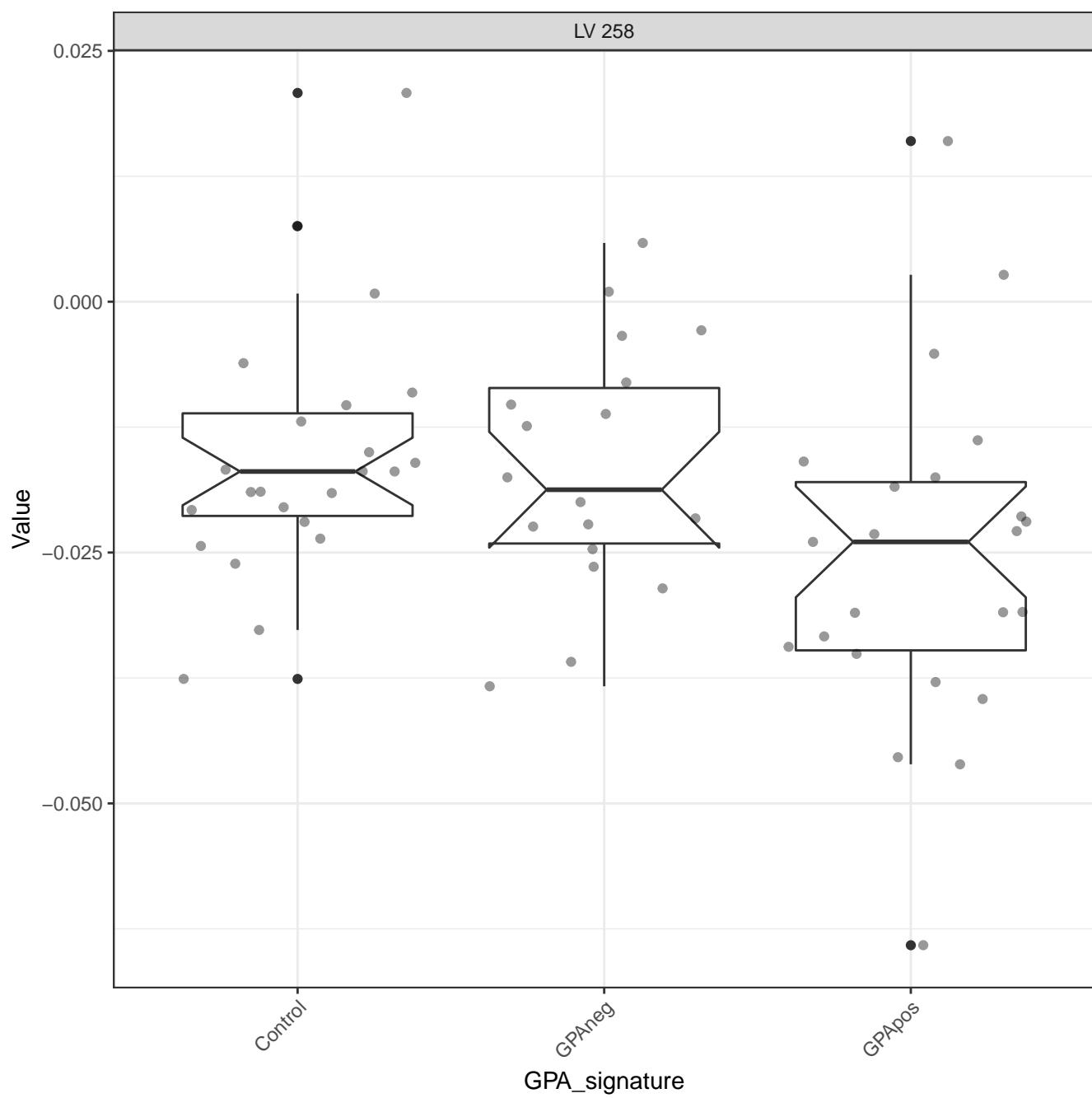


LV 256

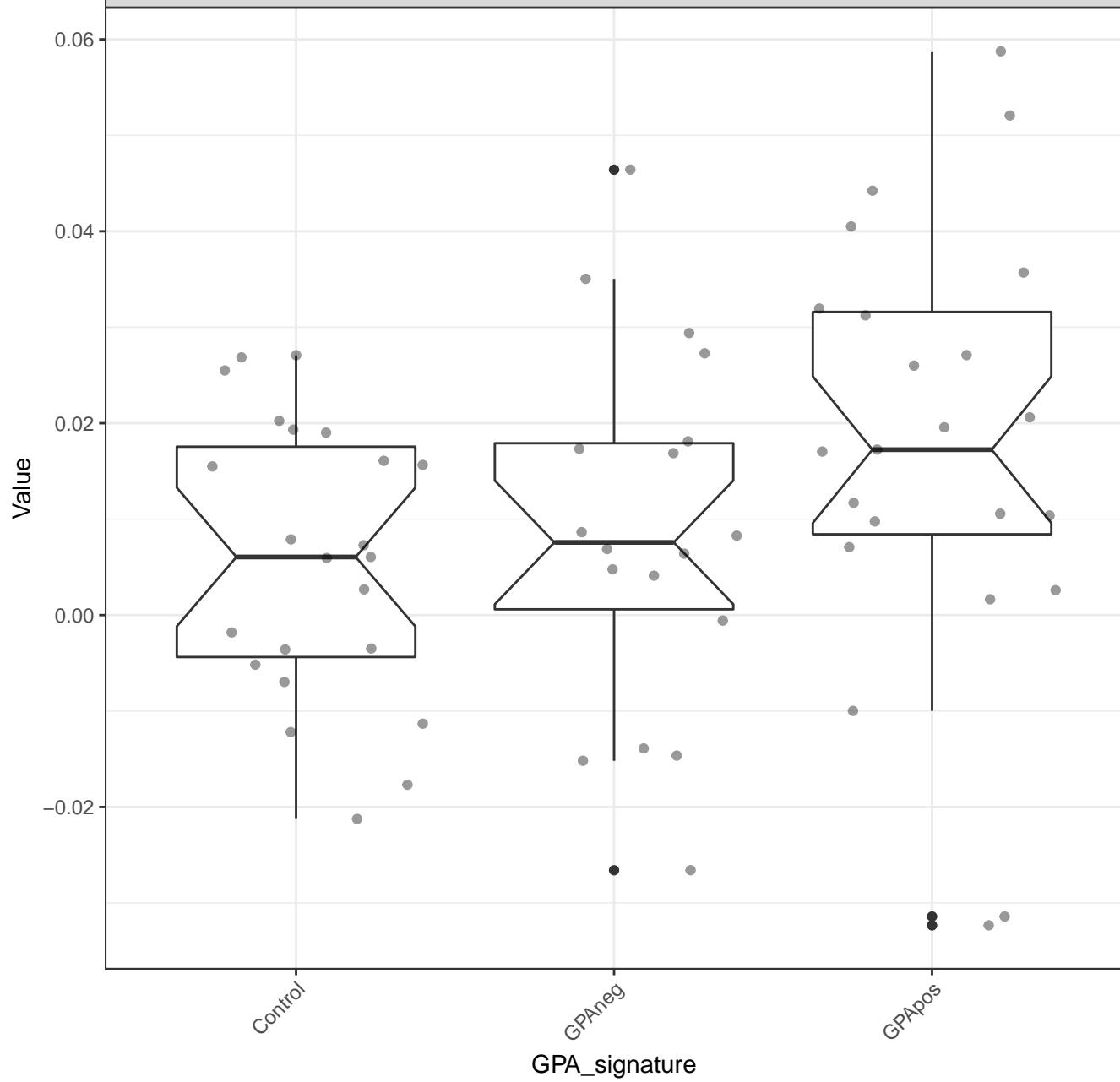


## 257,KEGG\_DILATED\_CARDIOMYOPATHY

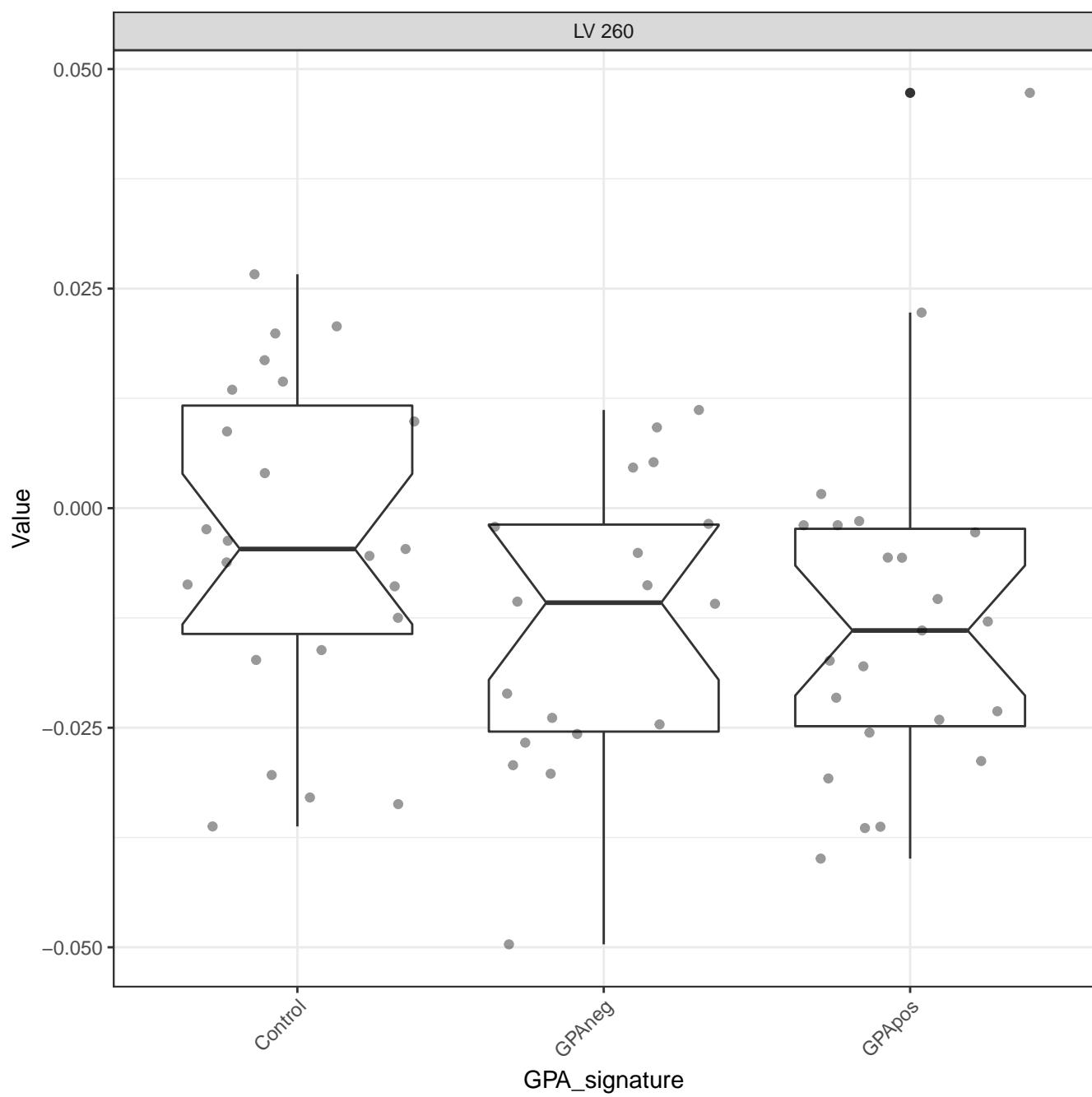




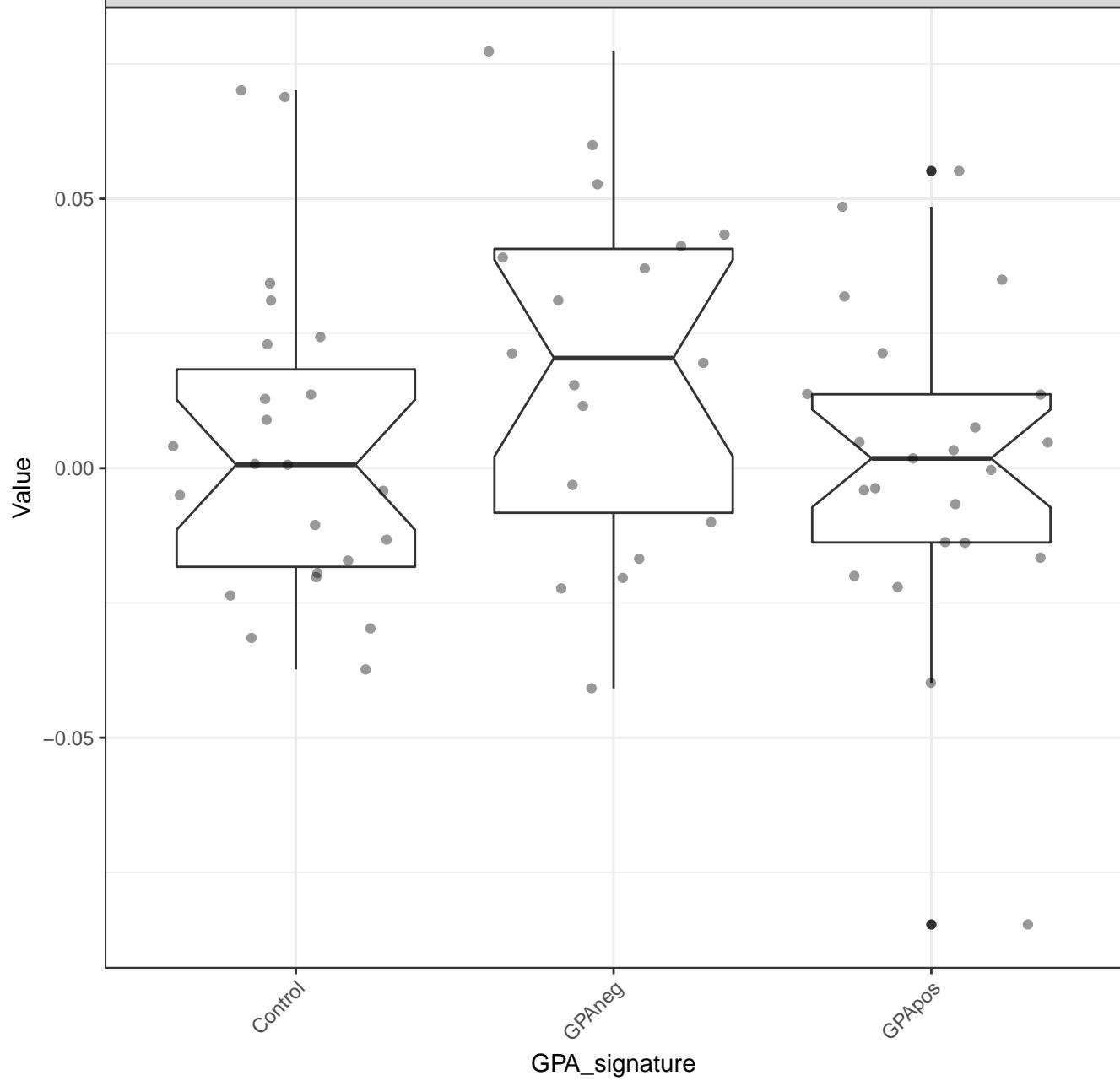
LV 259



LV 260



LV 261



Value

0.04

0.02

0.00

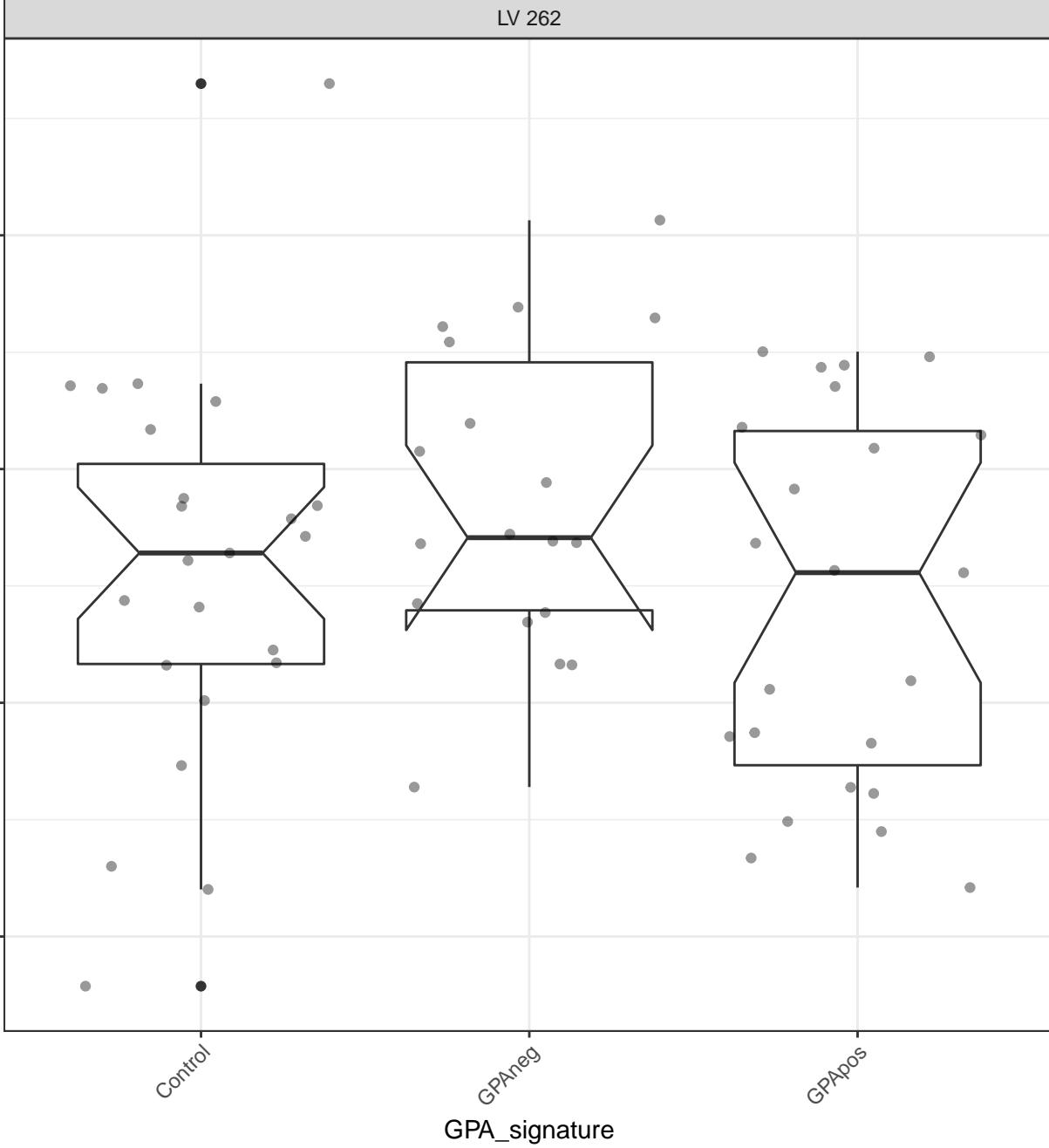
-0.02

Control

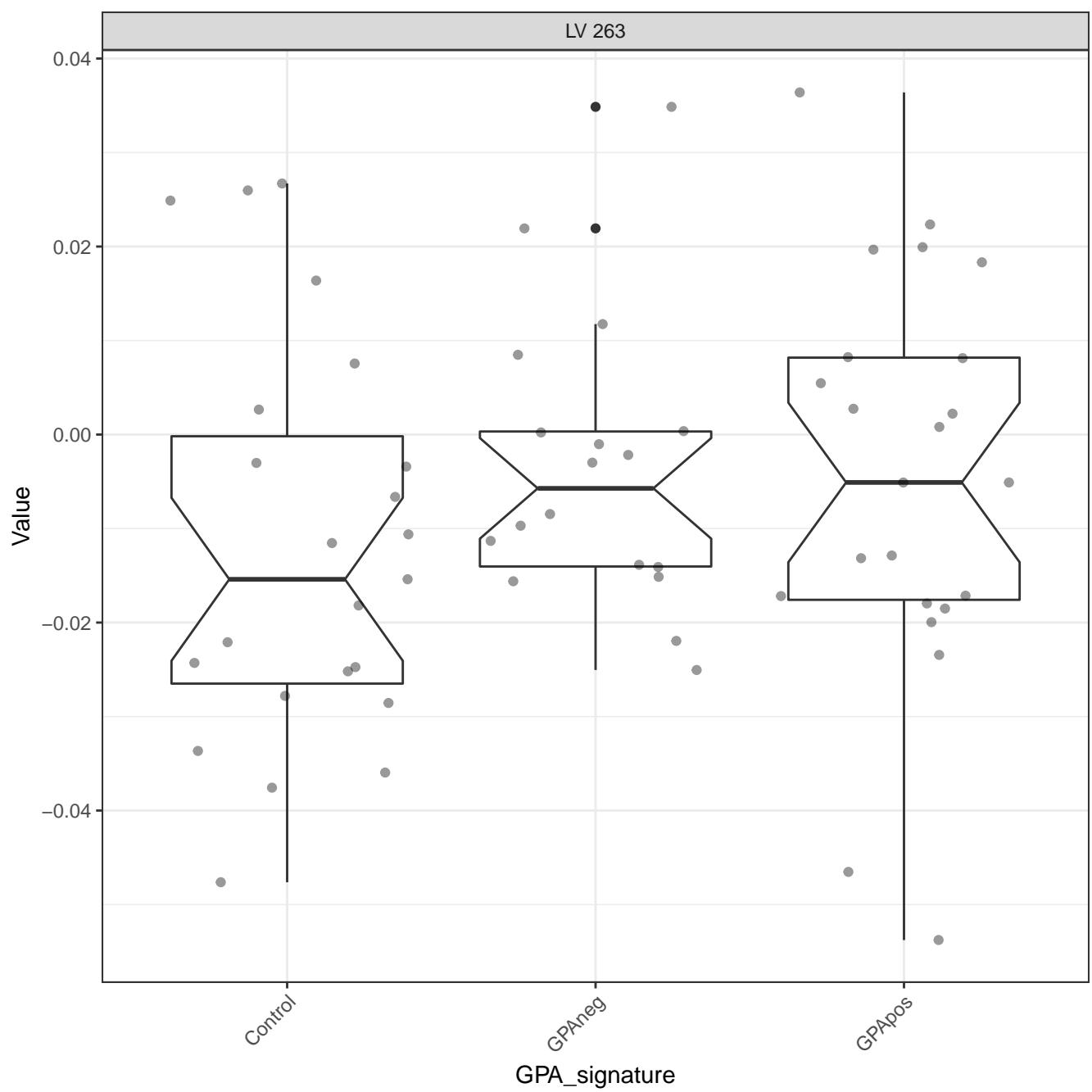
GPAneg

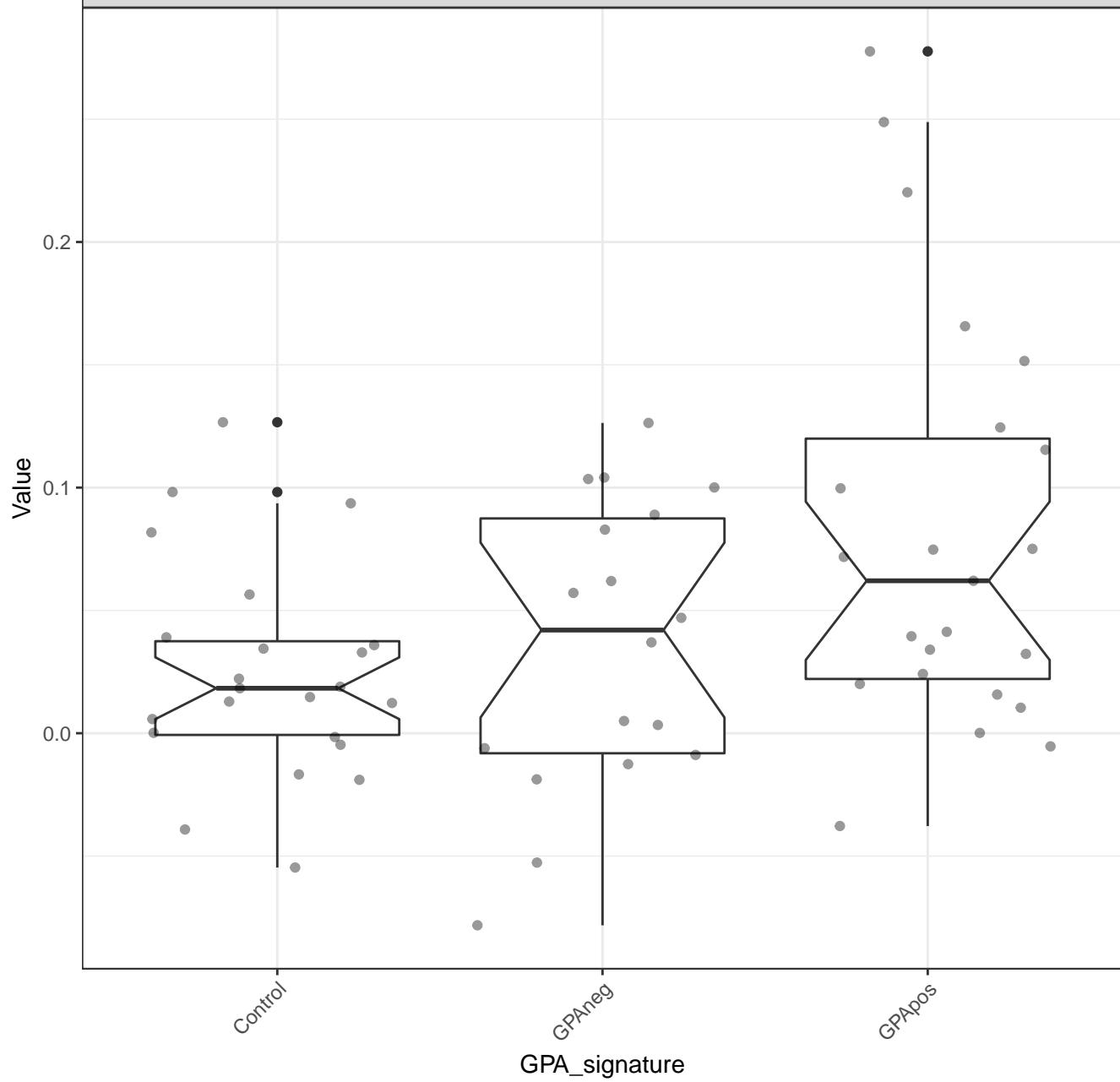
GPAPos

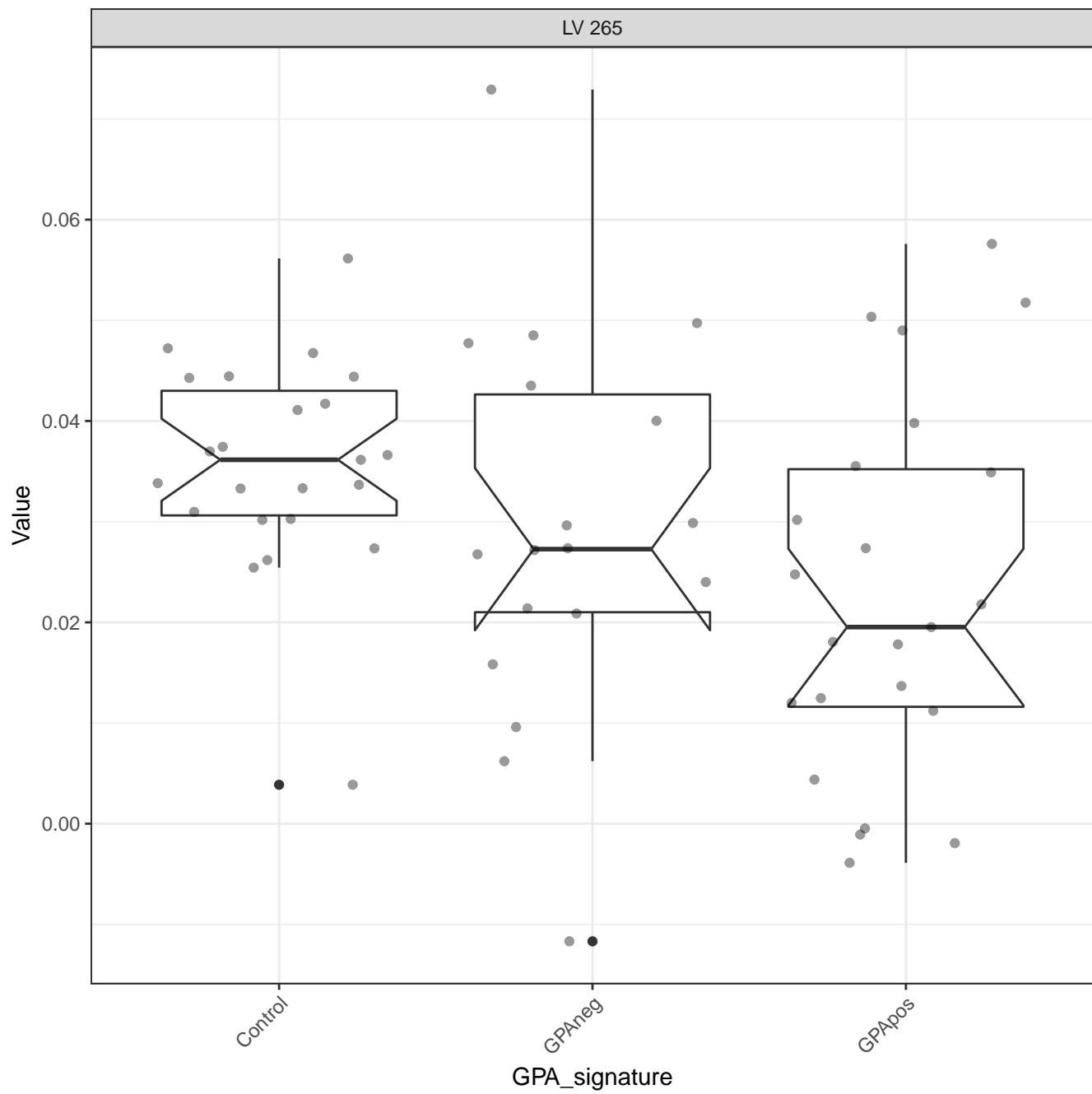
GPA\_signature



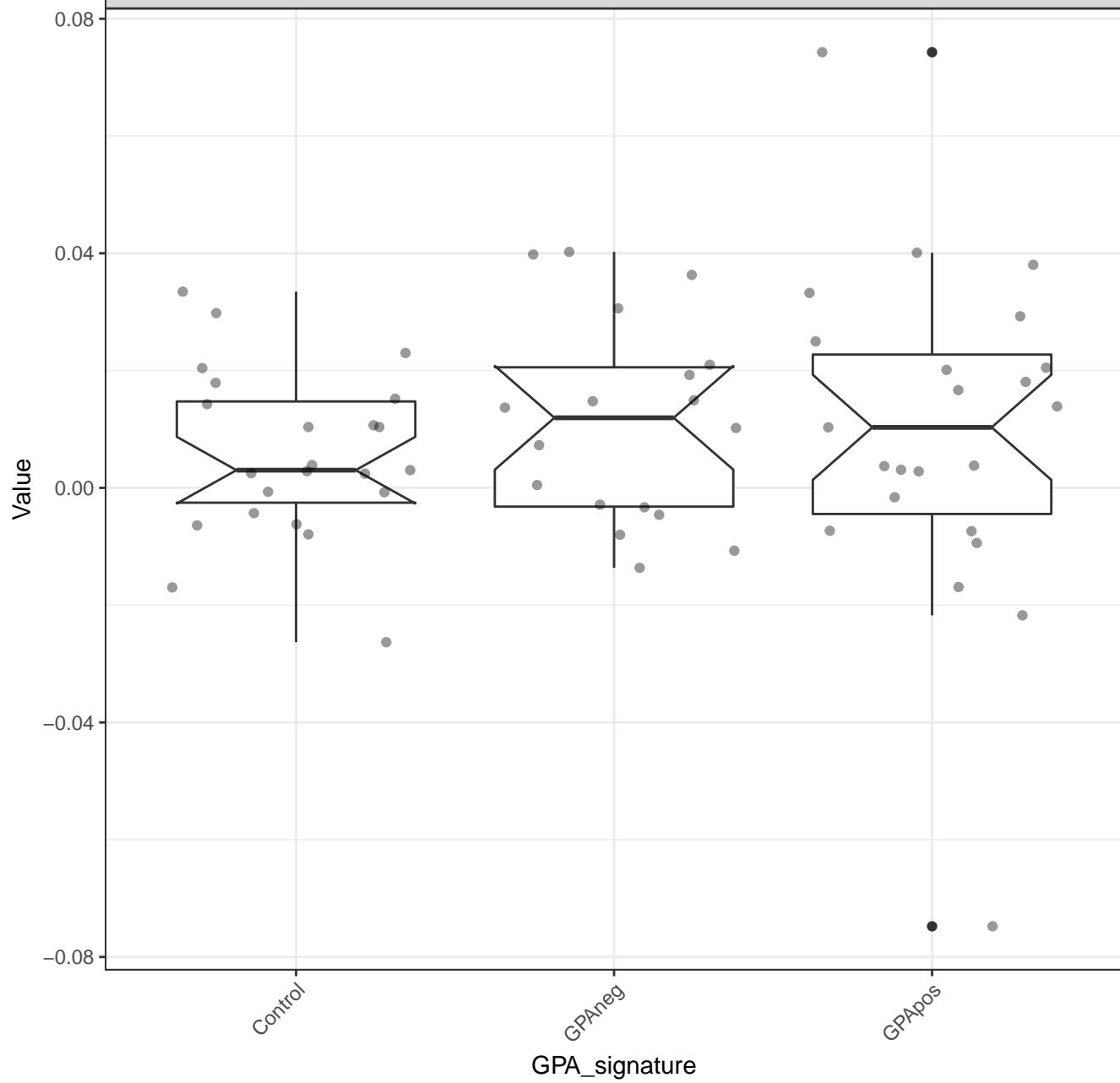
LV 263







## 266,PID\_FASPATHWAY



LV 267

Value

0.10

0.05

0.00

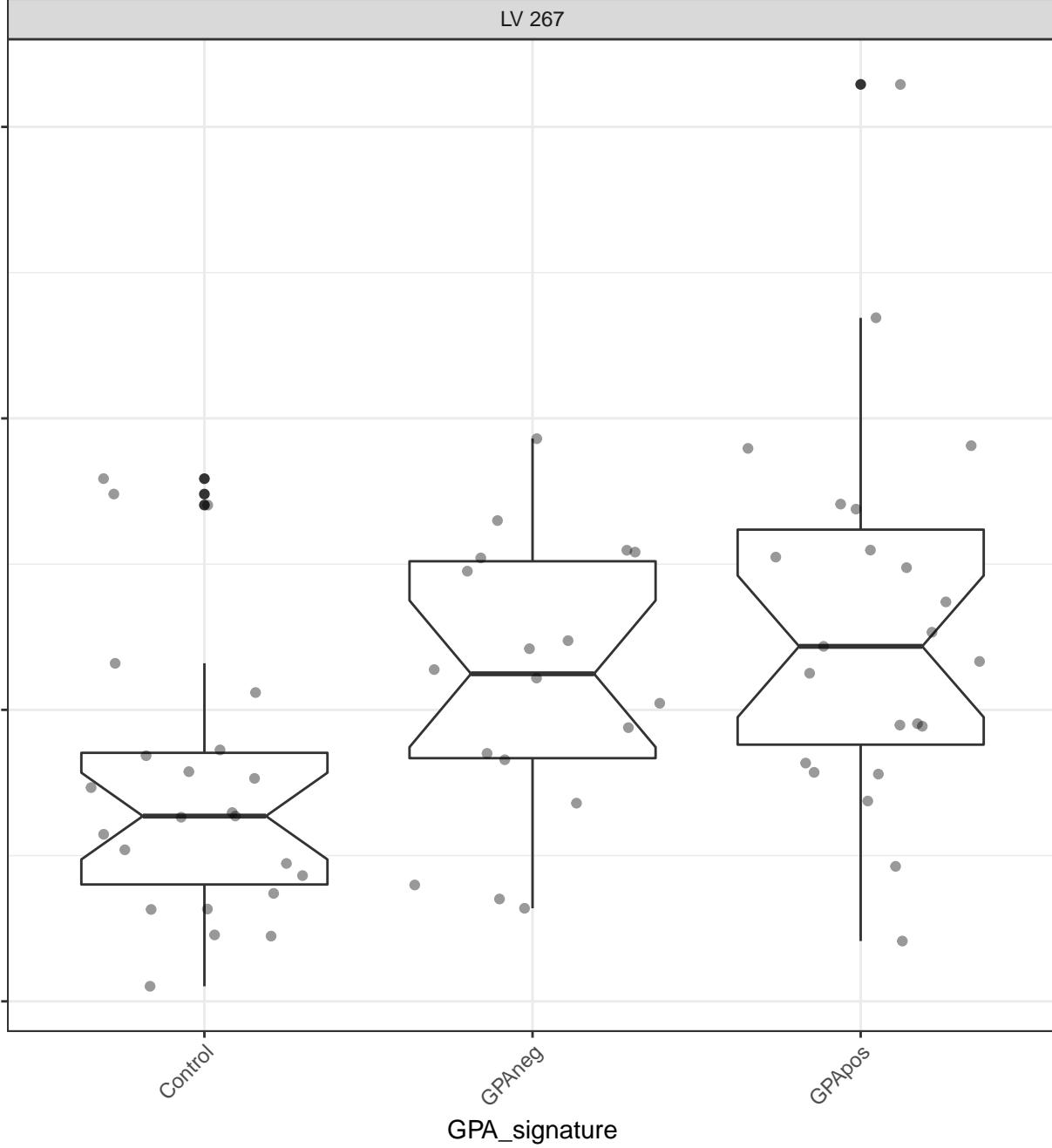
-0.05

Control

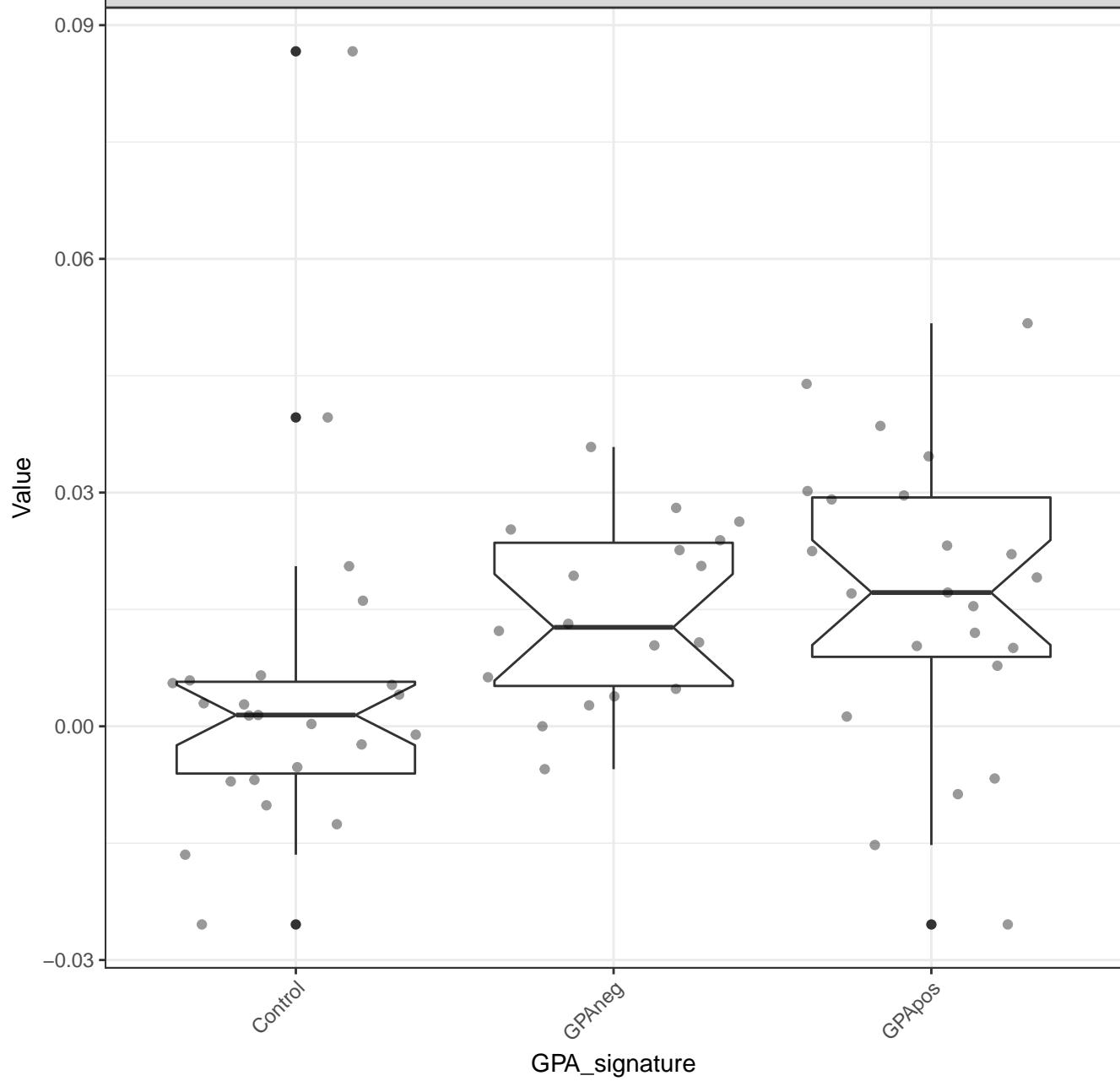
GPAneg

GPApos

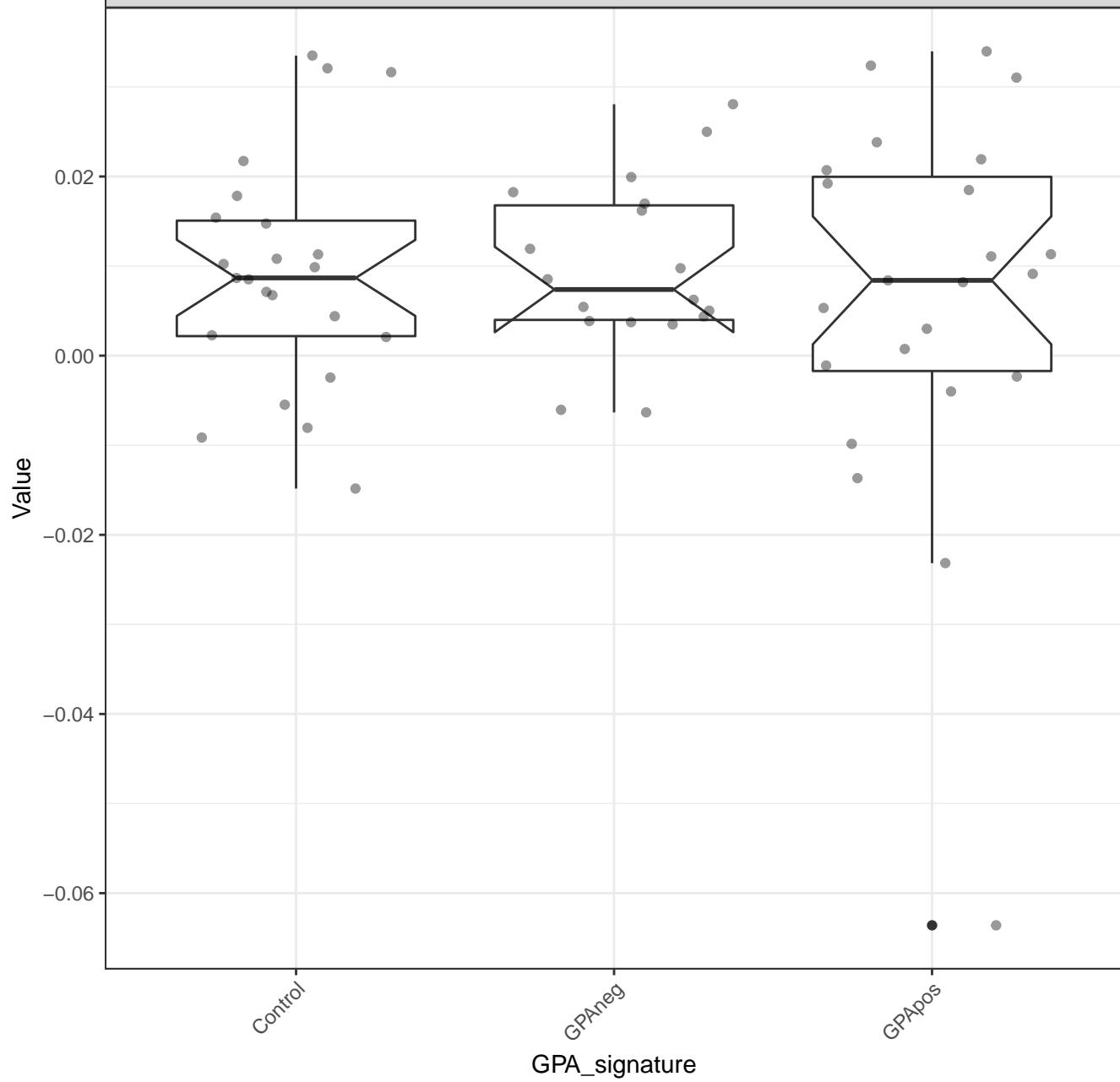
GPA\_signature



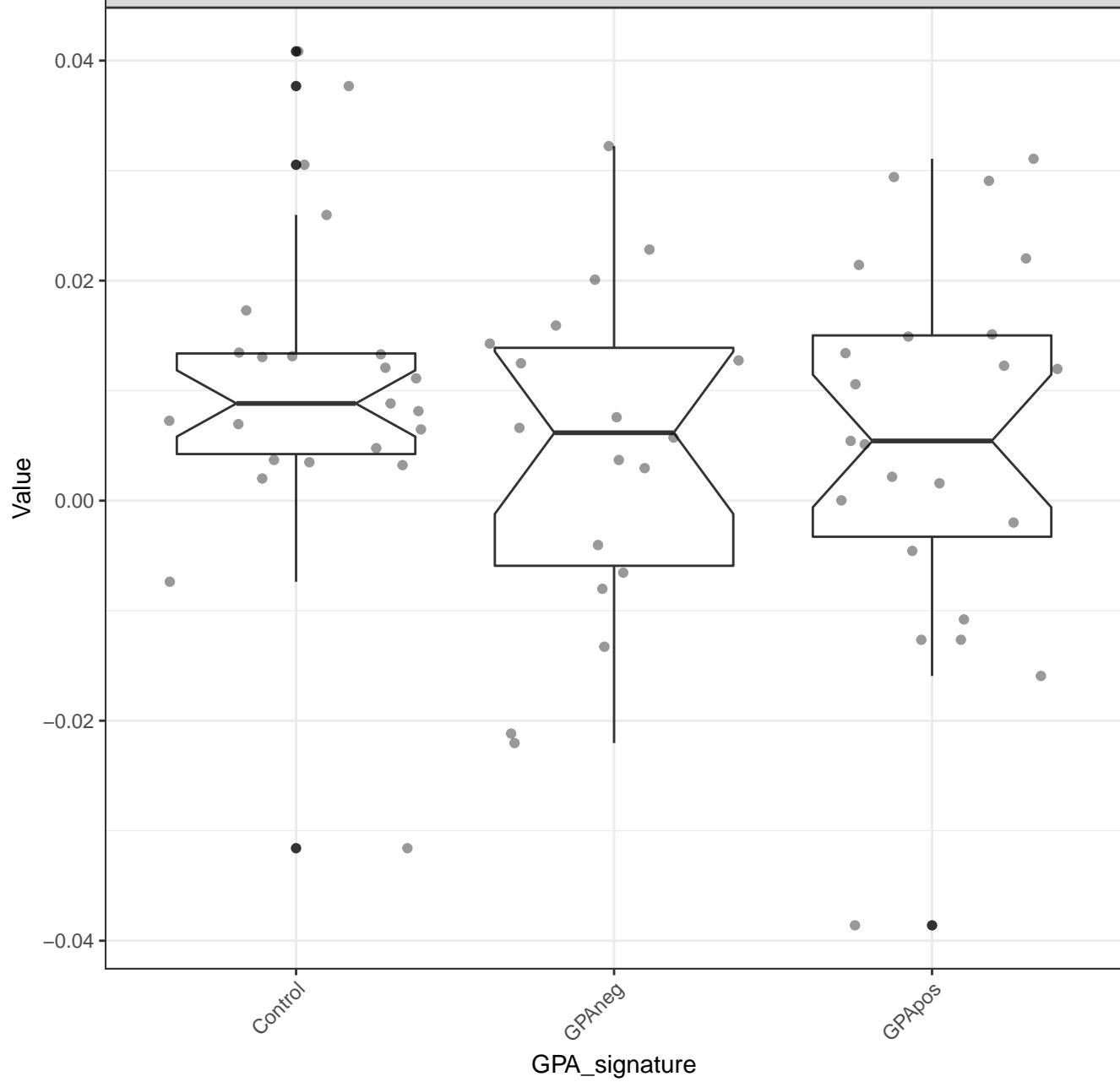
LV 268

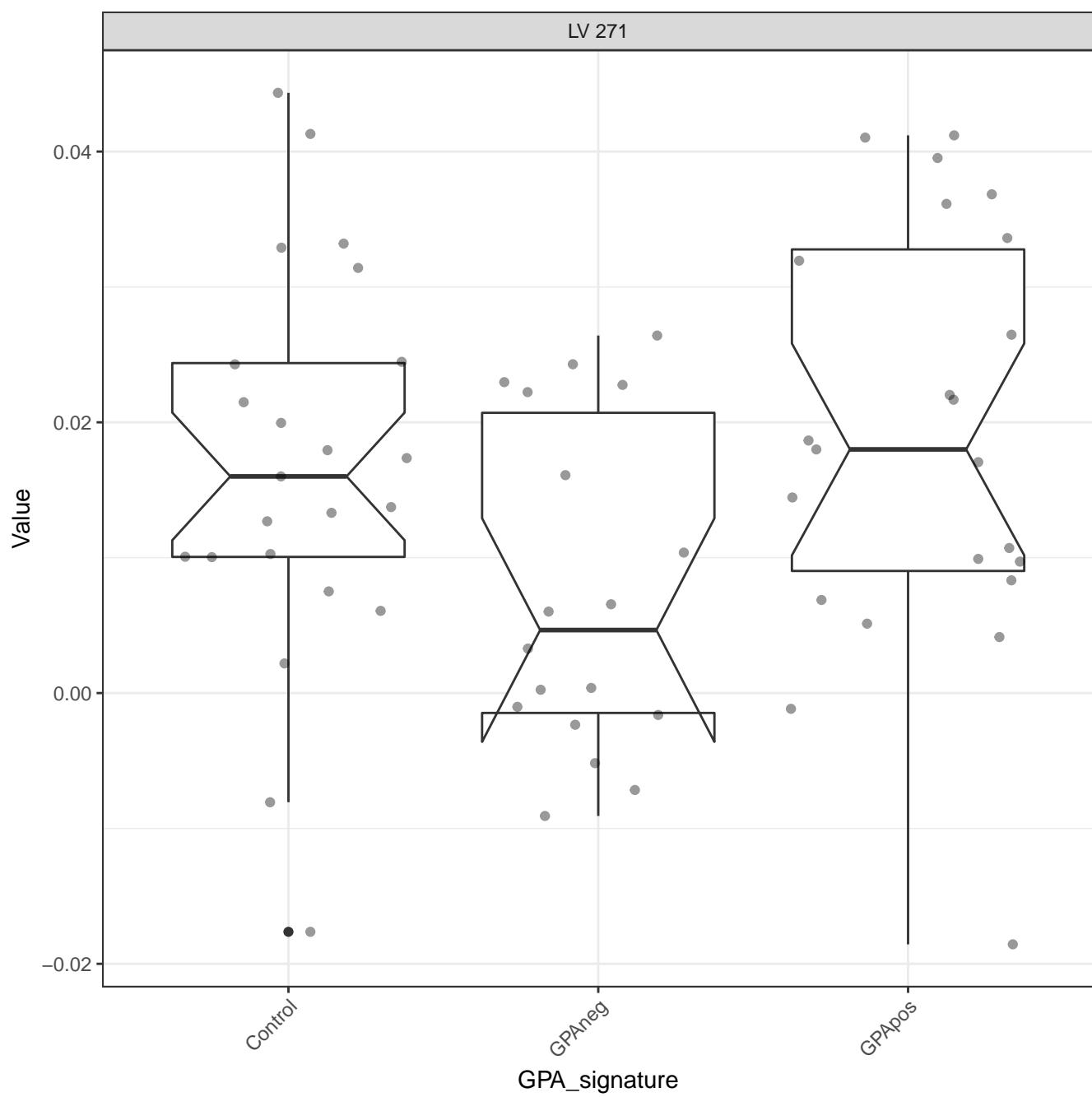


LV 269



LV 270





LV 272

Value

0.04

0.02

0.00

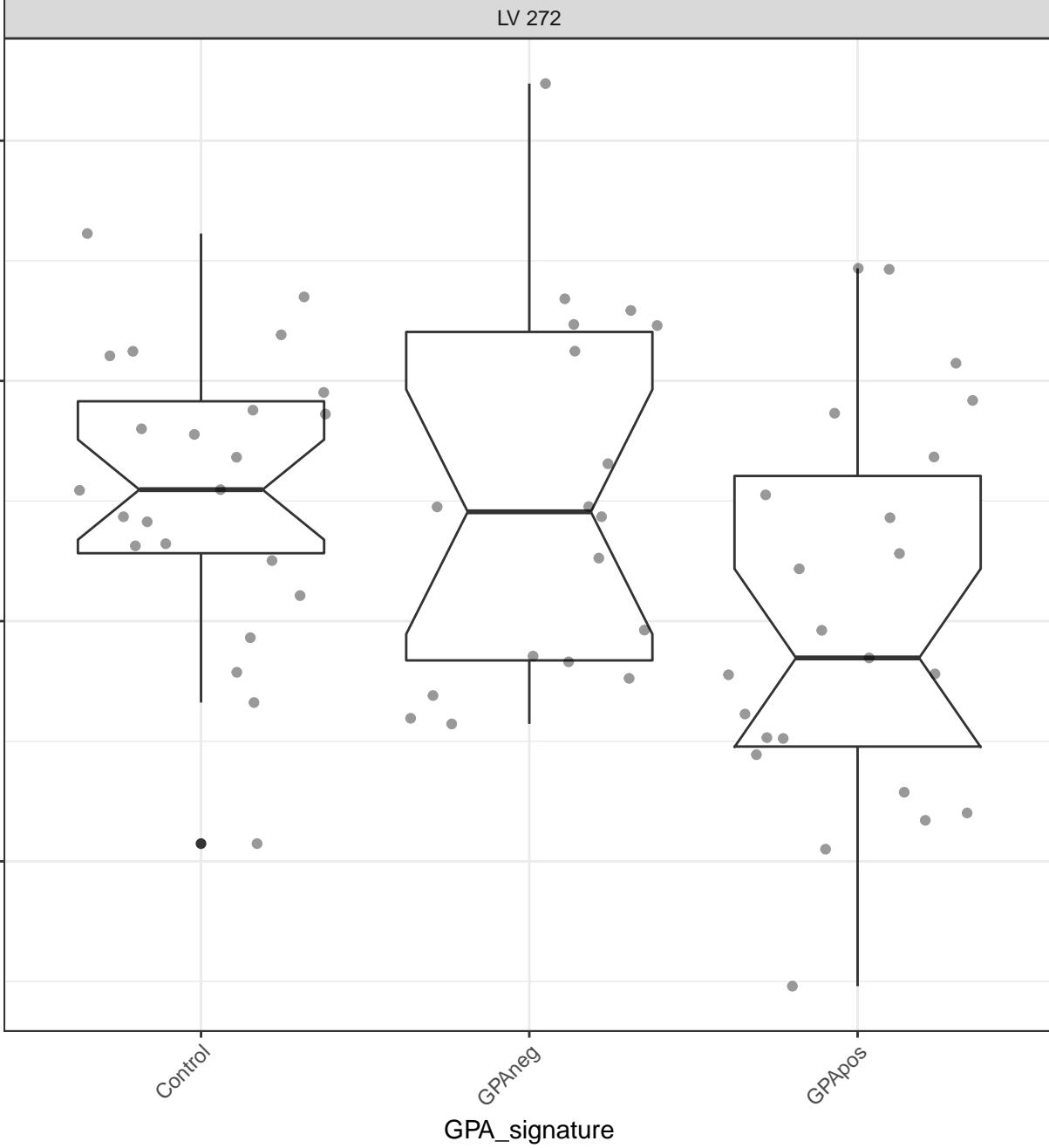
-0.02

Control

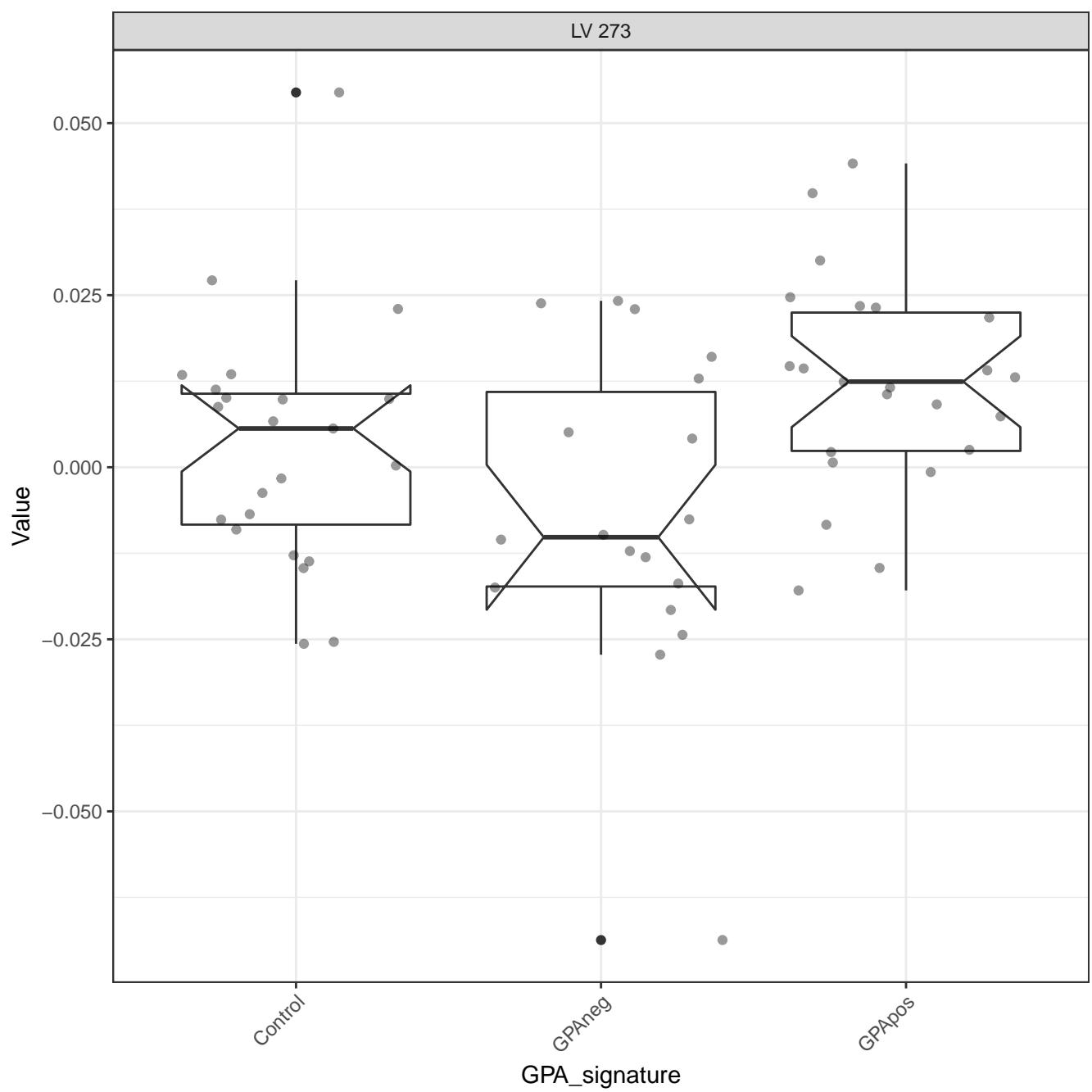
GPAneg

GPApos

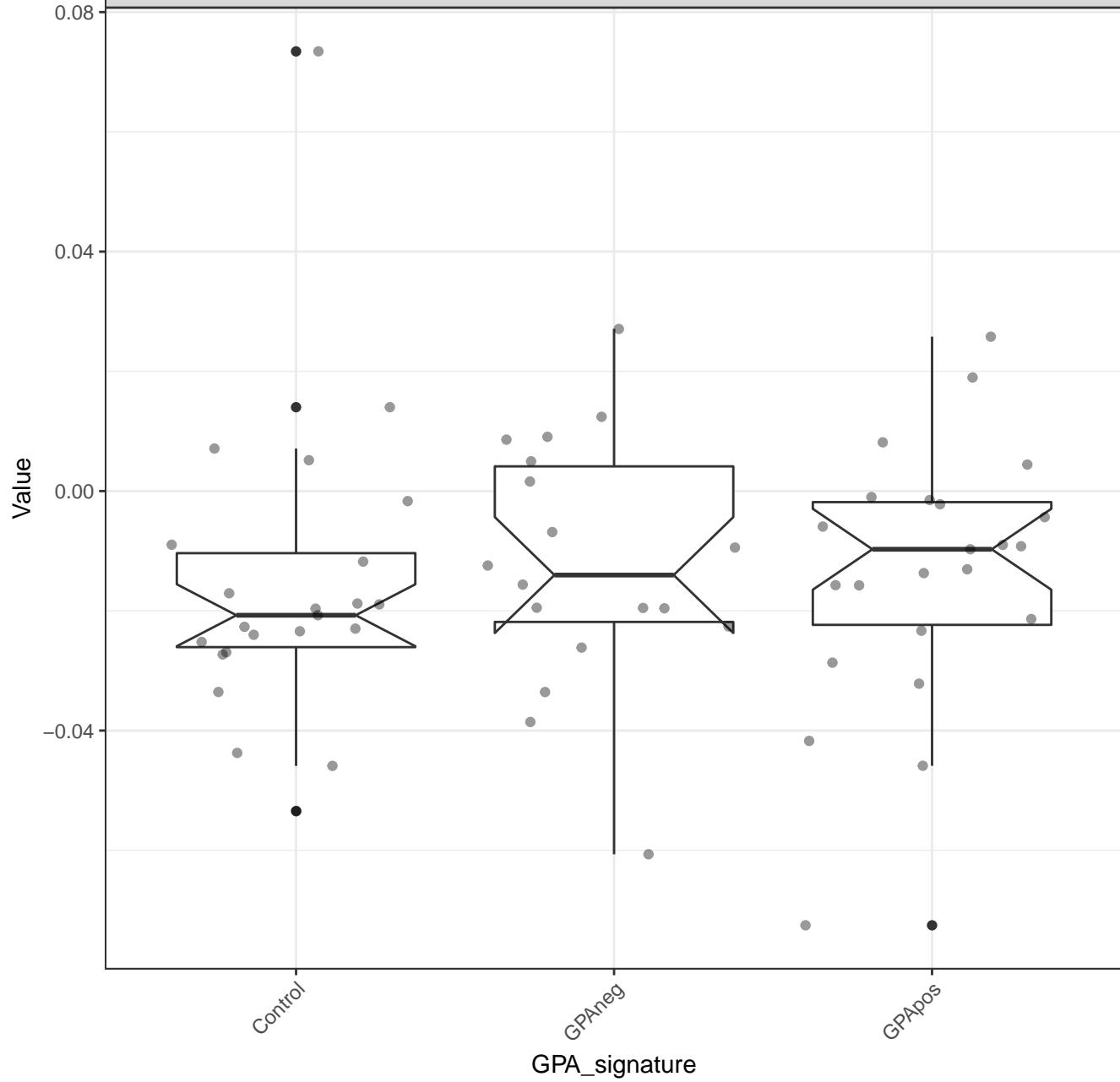
GPA\_signature



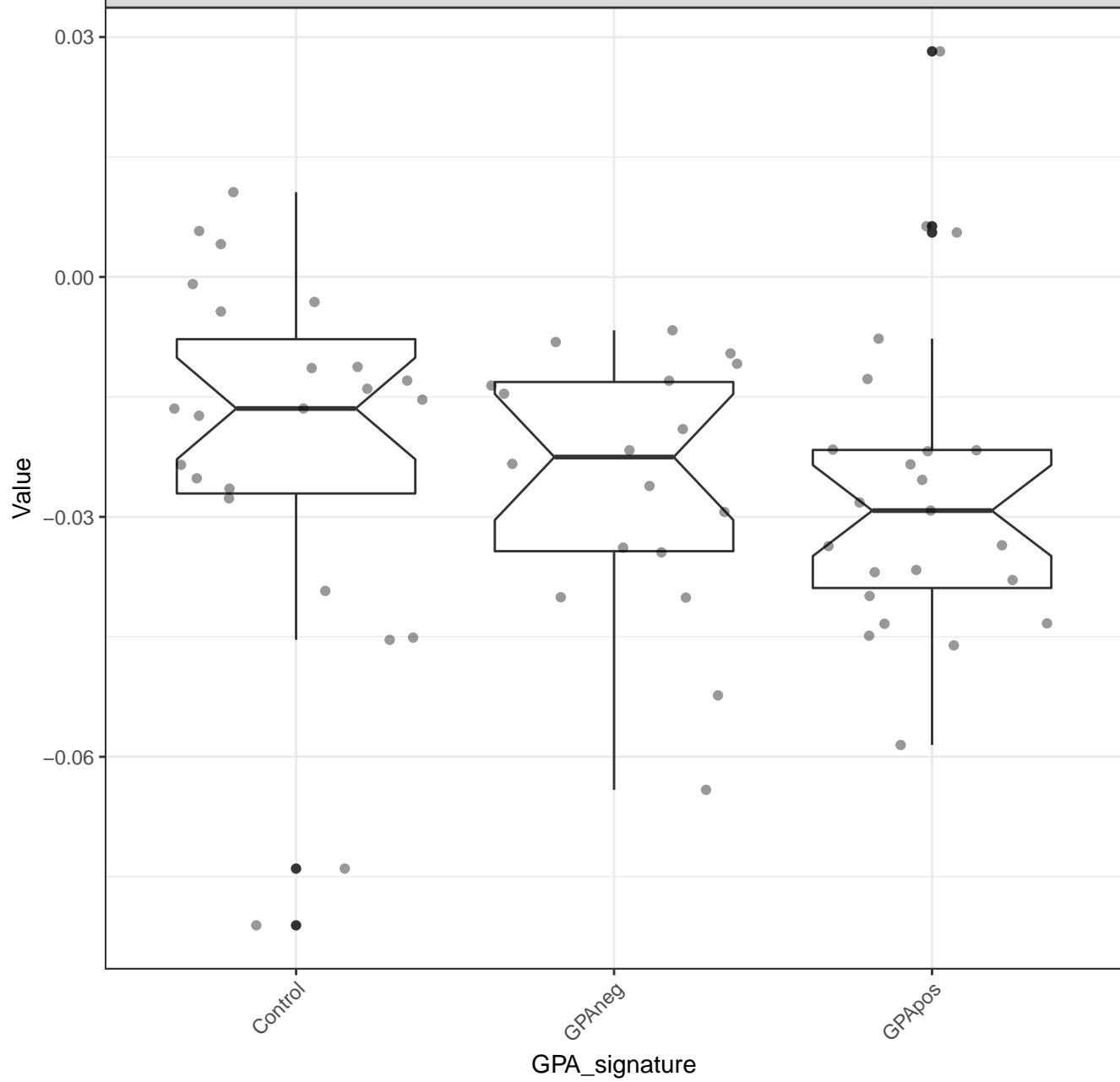
LV 273



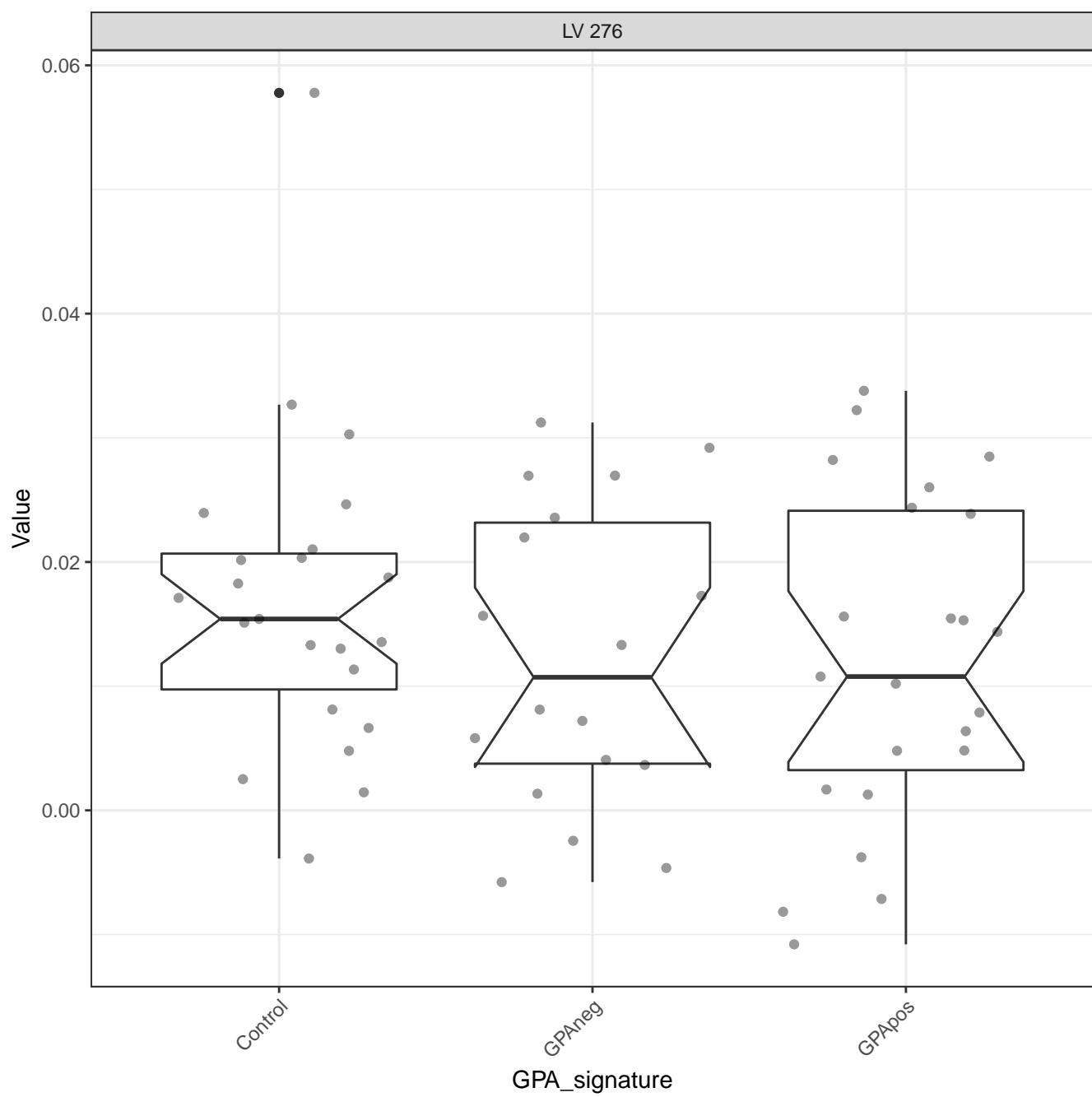
LV 274

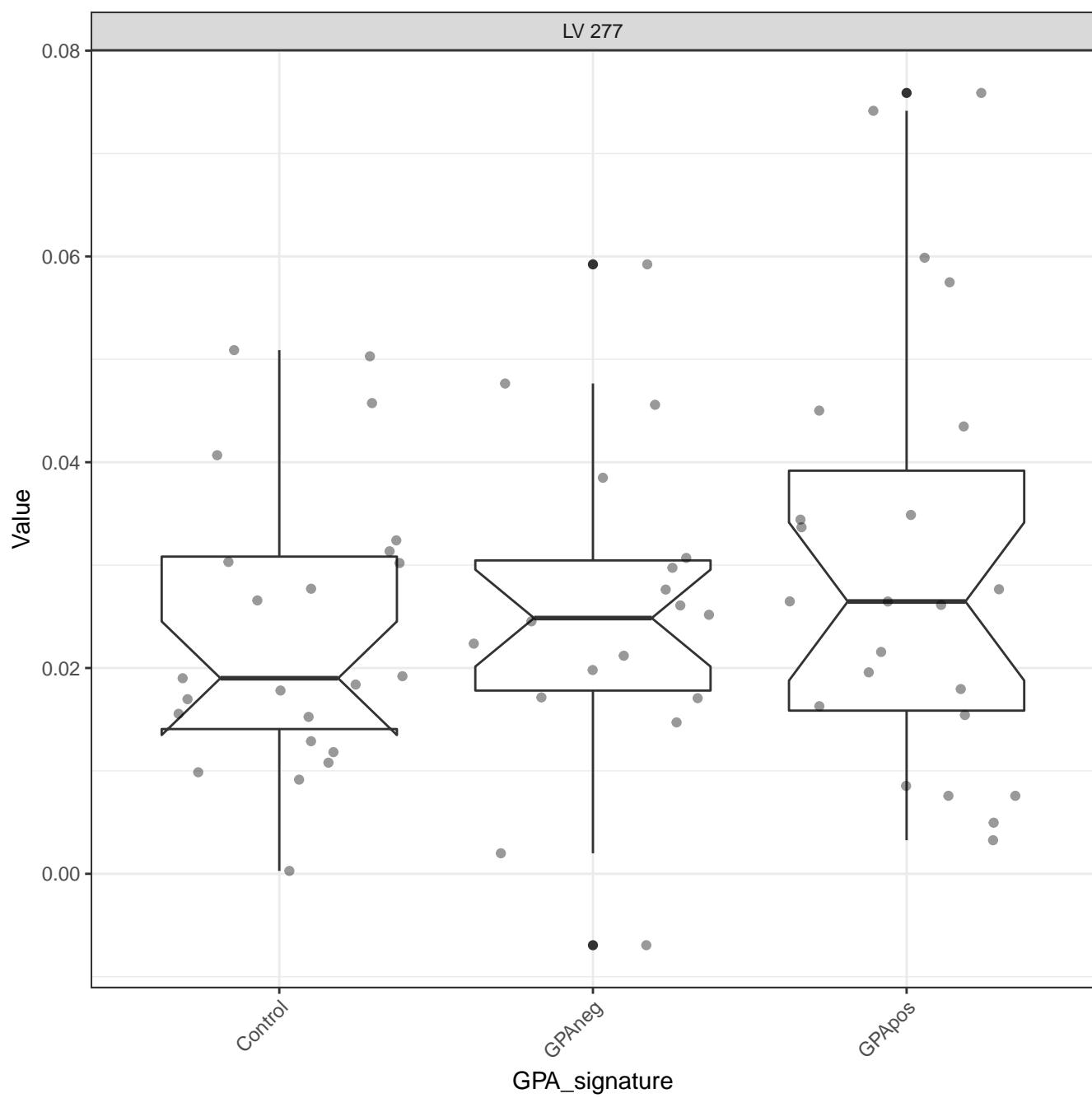


LV 275

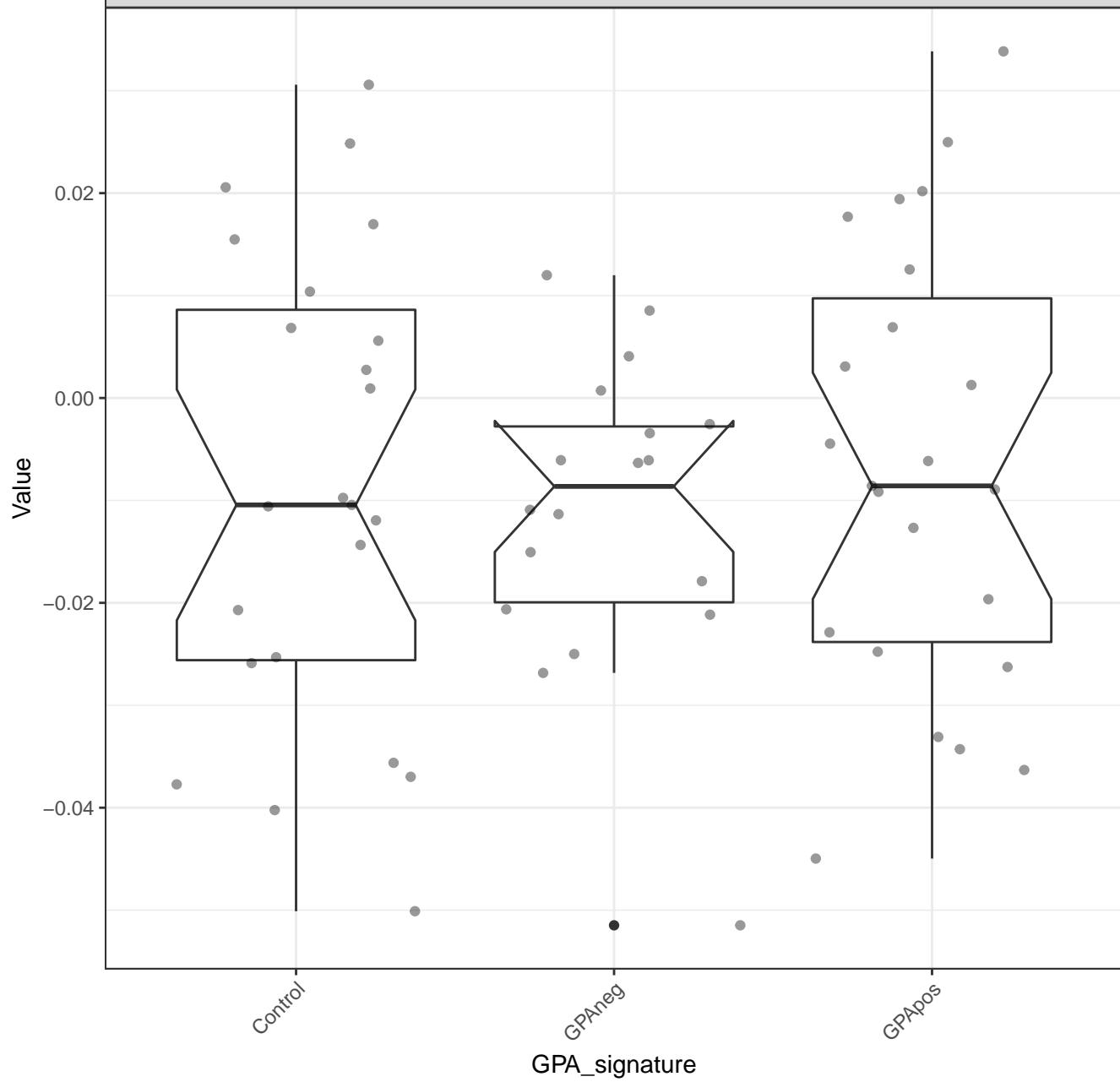


LV 276

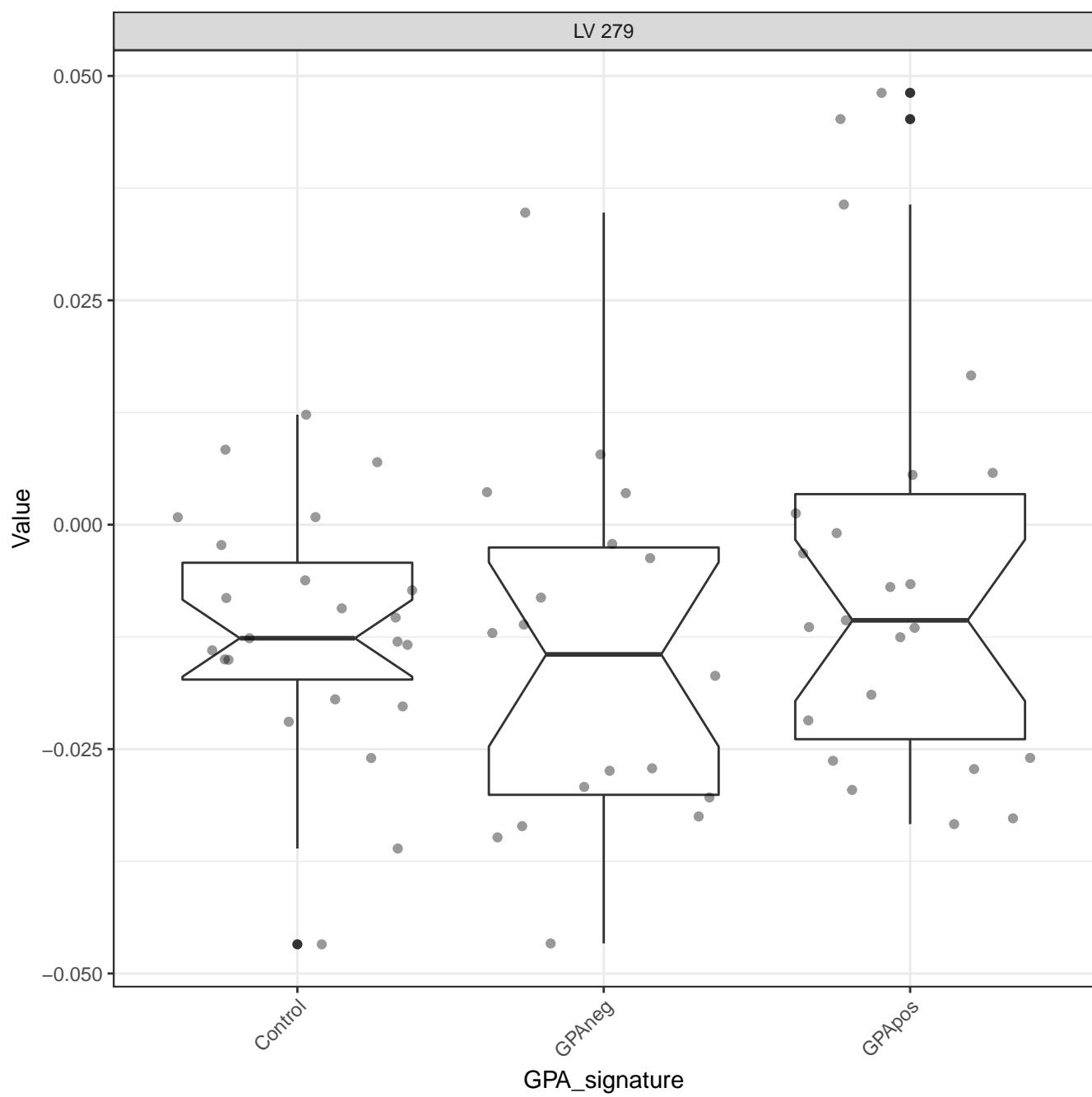




LV 278



LV 279



LV 280

Value

0.04

0.02

0.00

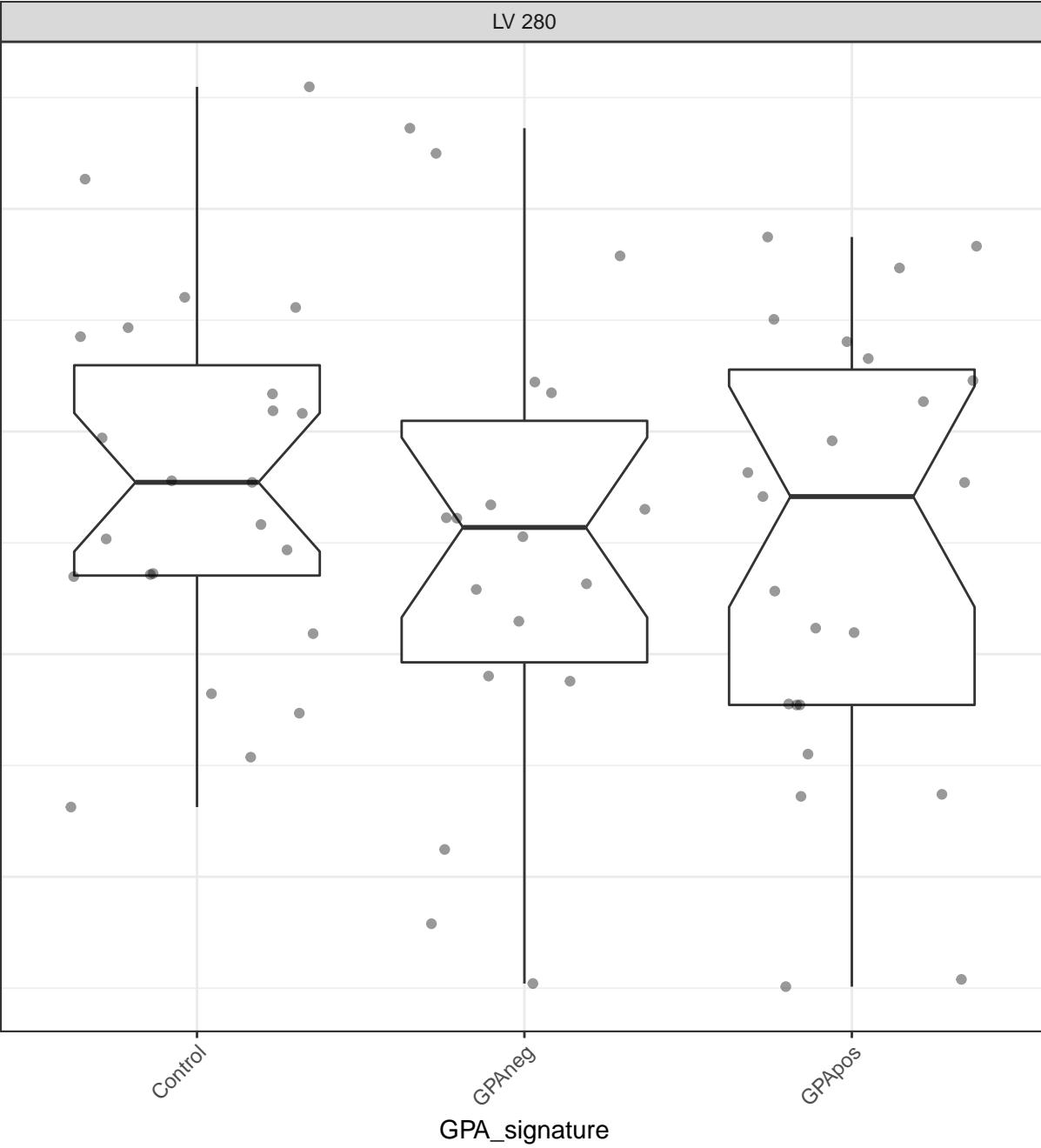
-0.02

Control

GPA\_signature

GPAneg

GPApos



## LV 281

Value

0.050

0.025

0.000

-0.025

-0.050

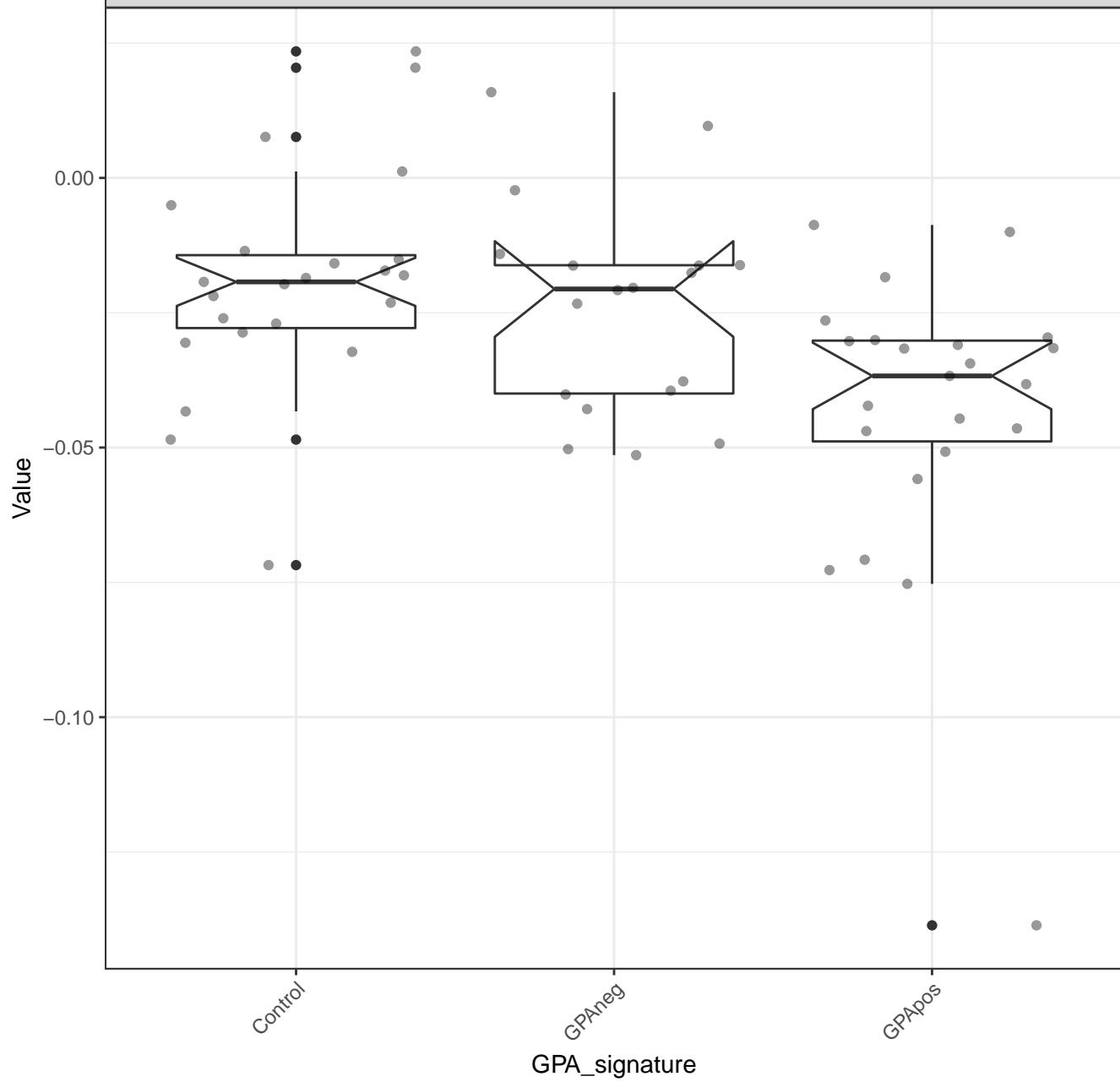
Control

GPAneg

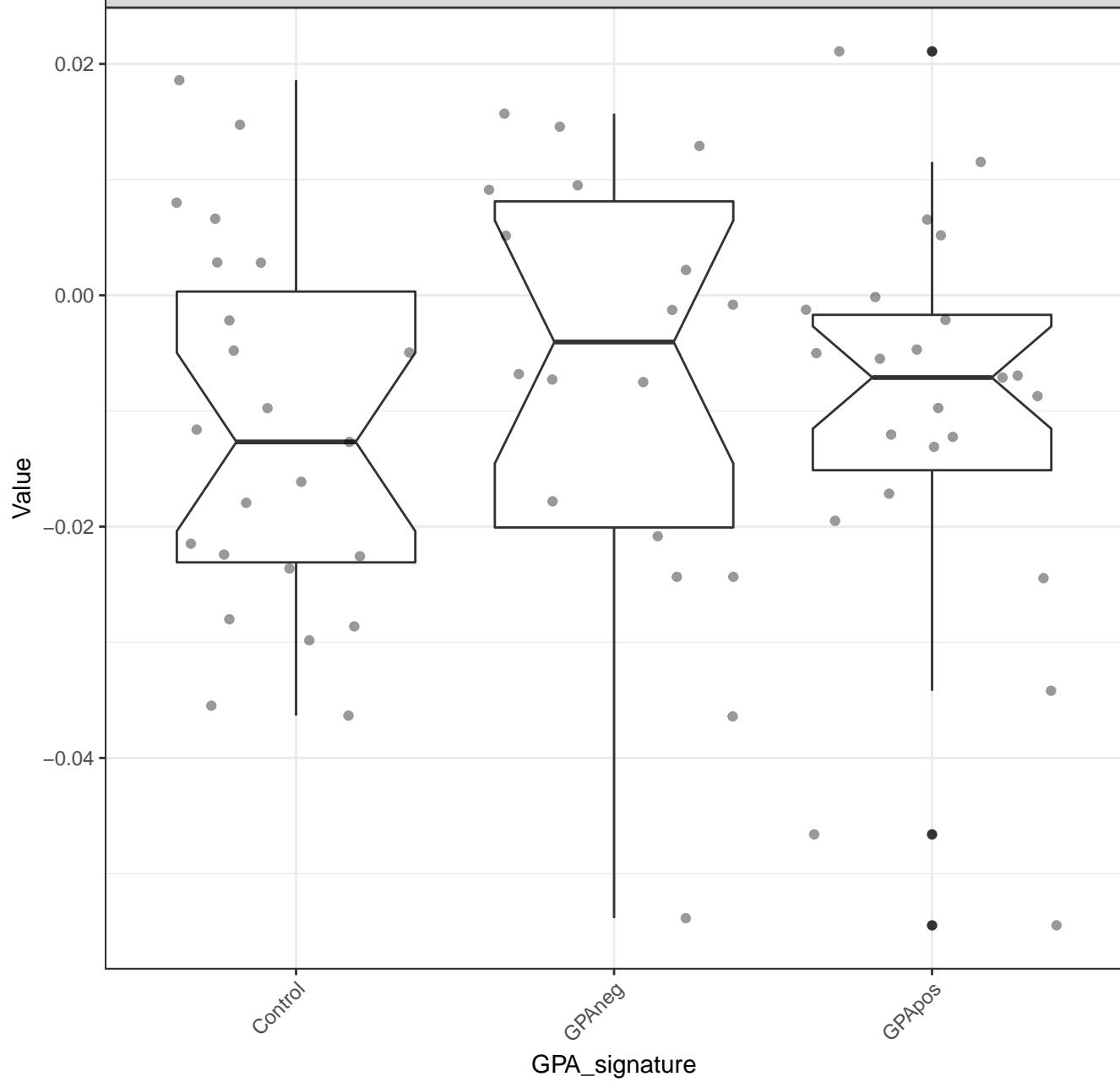
GPAPos

GPA\_signature

## LV 282



LV 283



Value

0.05

0.00

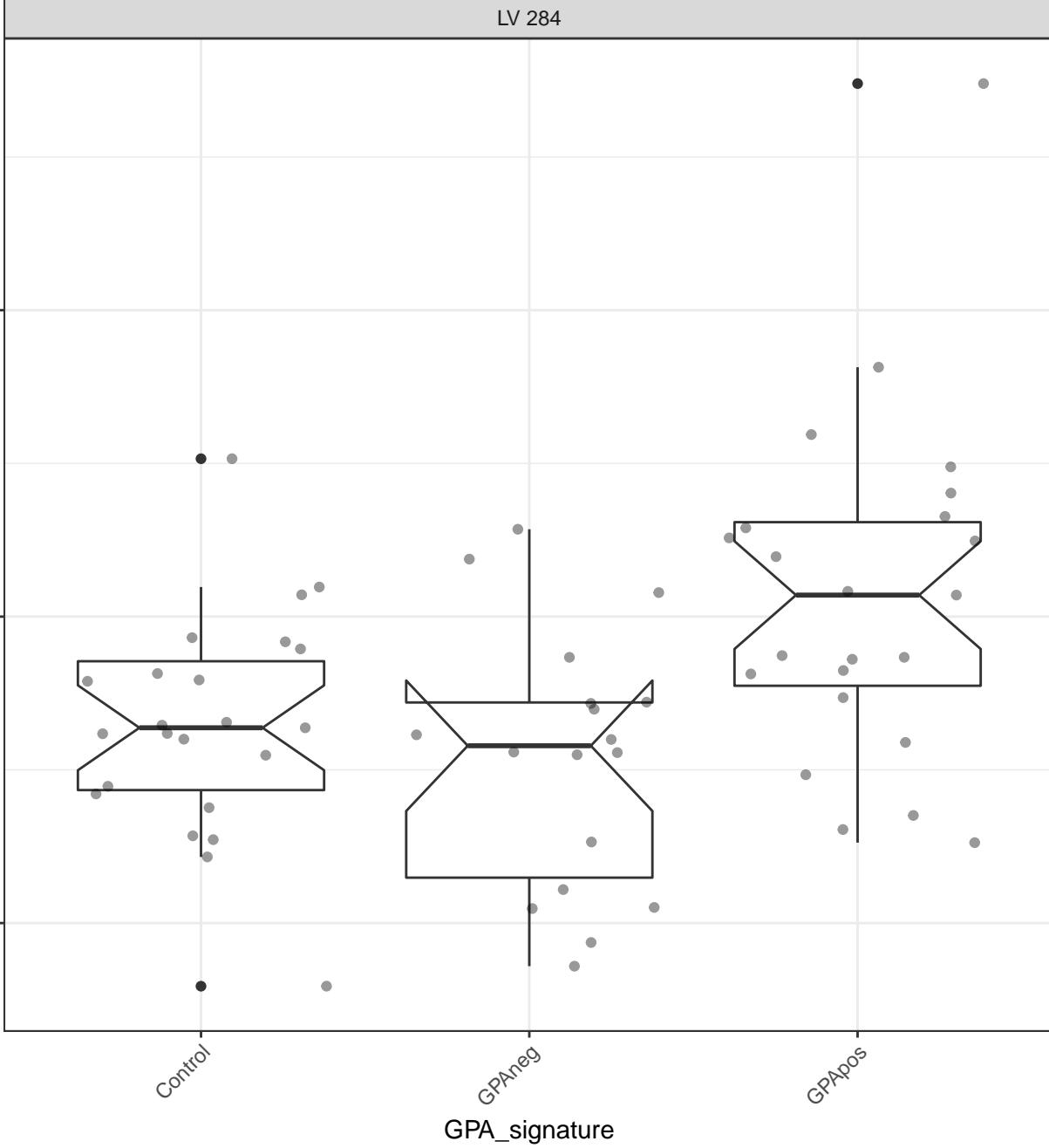
-0.05

Control

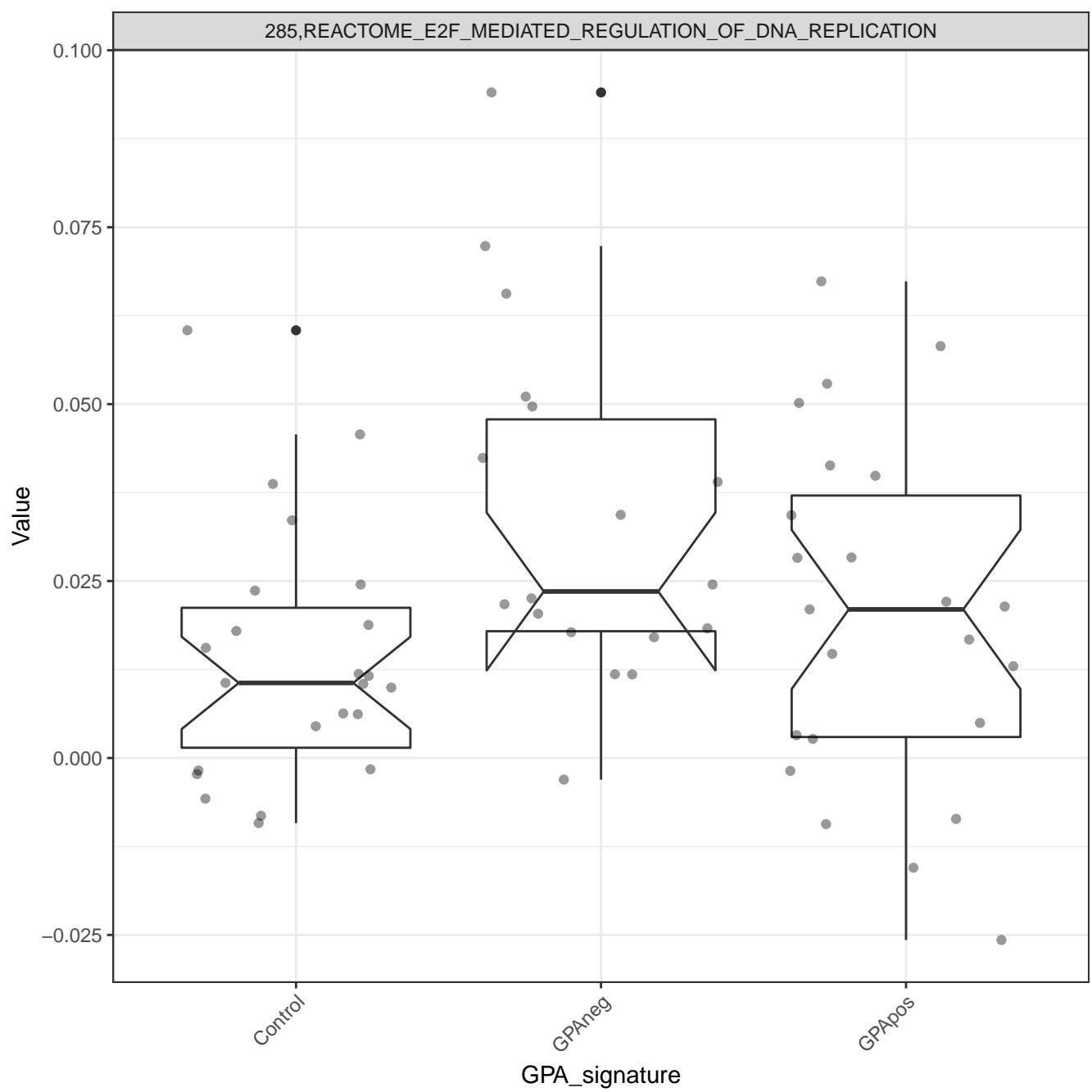
GPA\_signature

GPAneg

GPApos



# 285,REACTOME\_E2F\_MEDIATED\_REGULATION\_OF\_DNA\_REPLICATION



Value

0.10

0.05

0.00

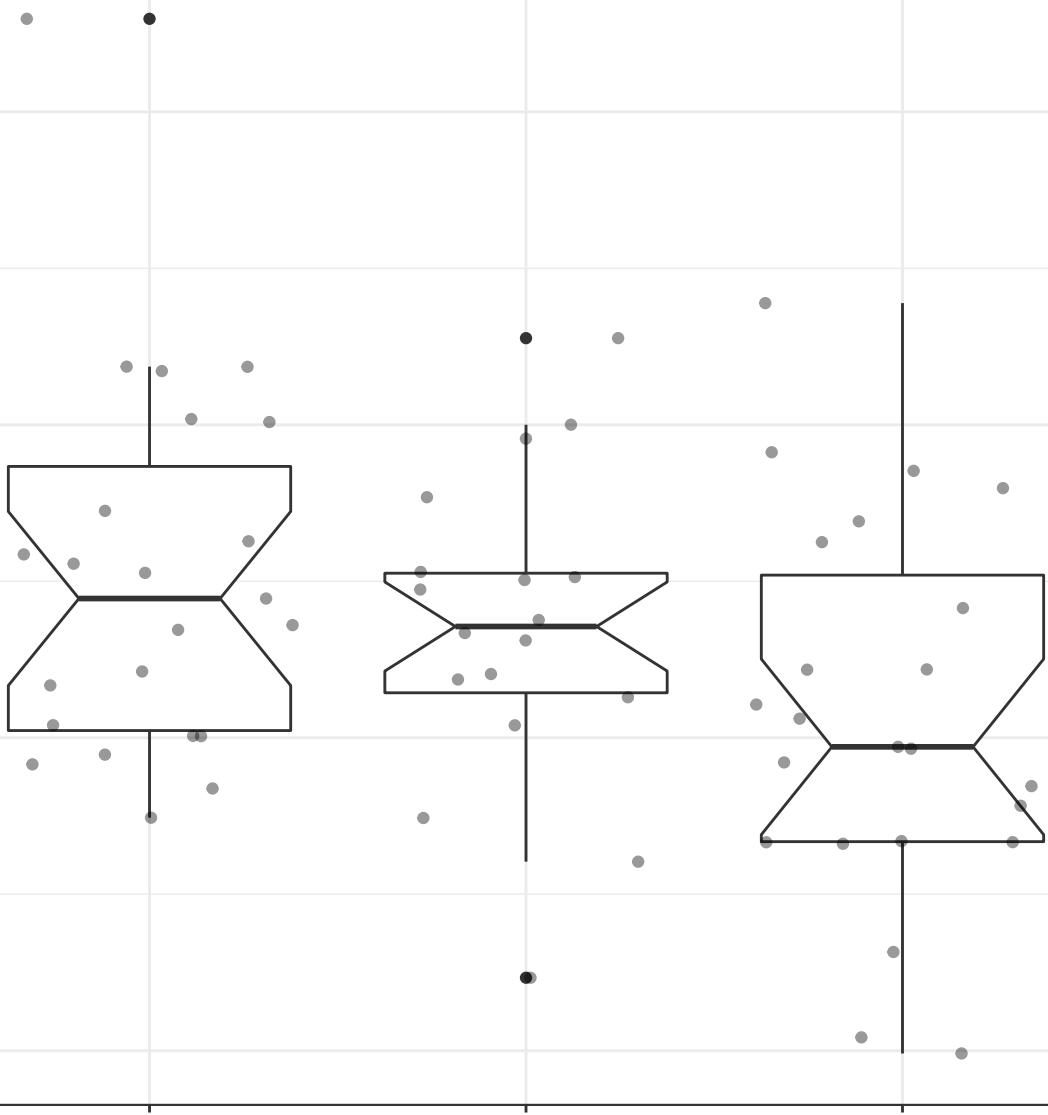
-0.05

Control

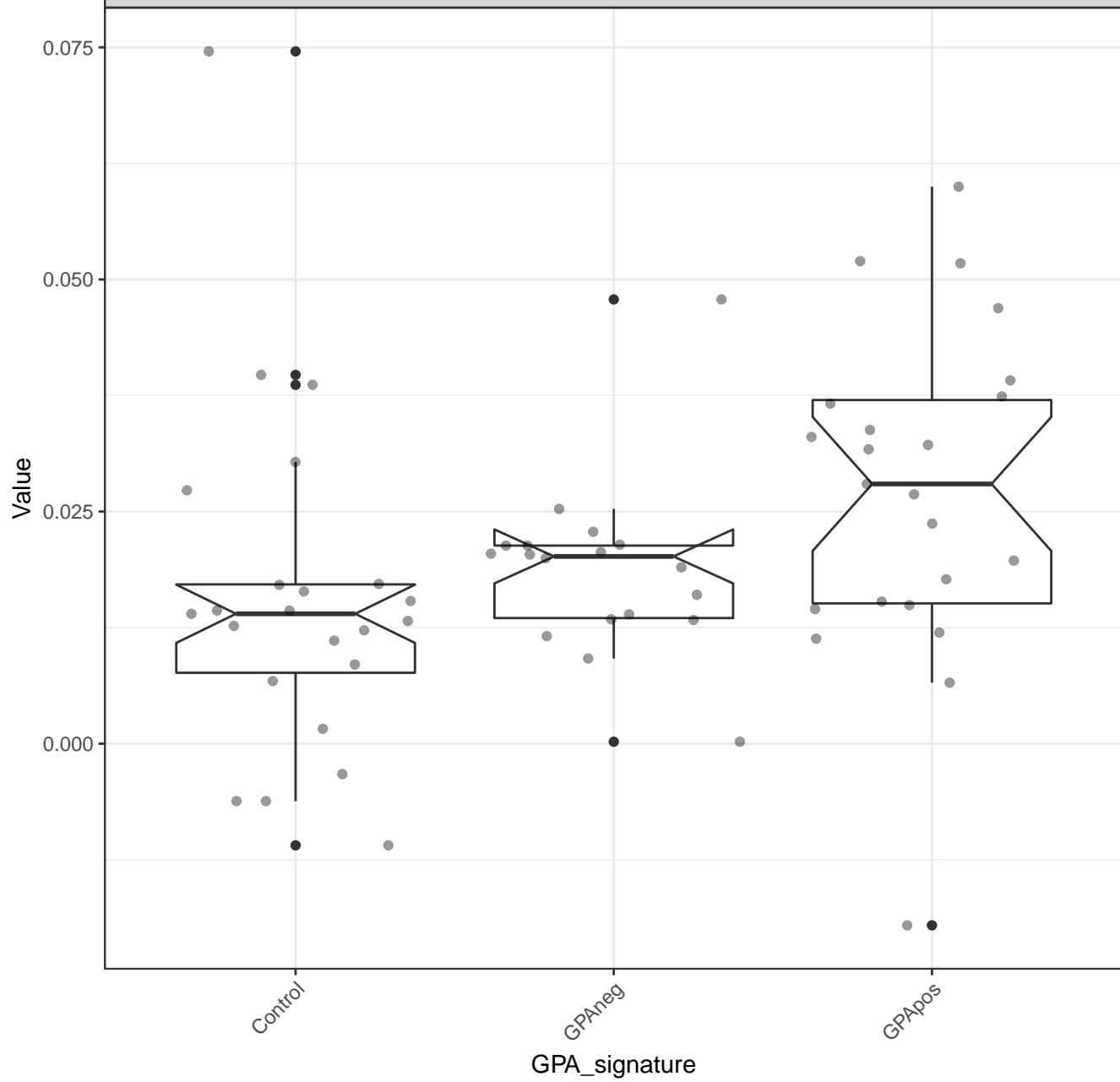
GPA\_signature

GPAneg

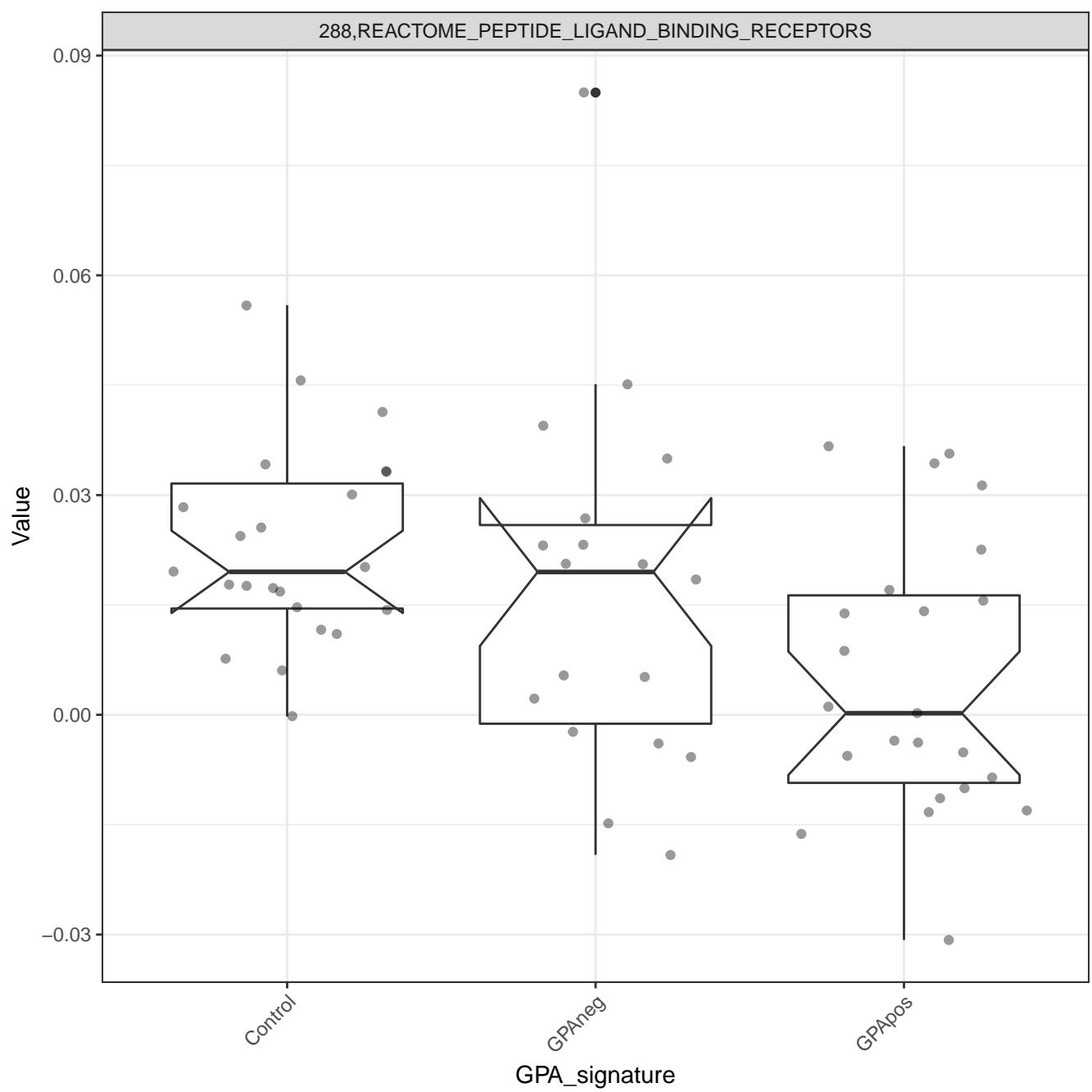
GPAPos



LV 287

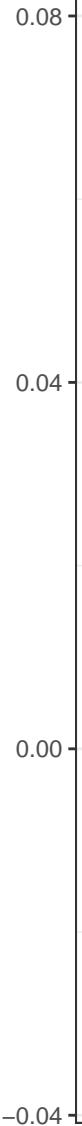


## 288,REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTEORS



LV 289

Value



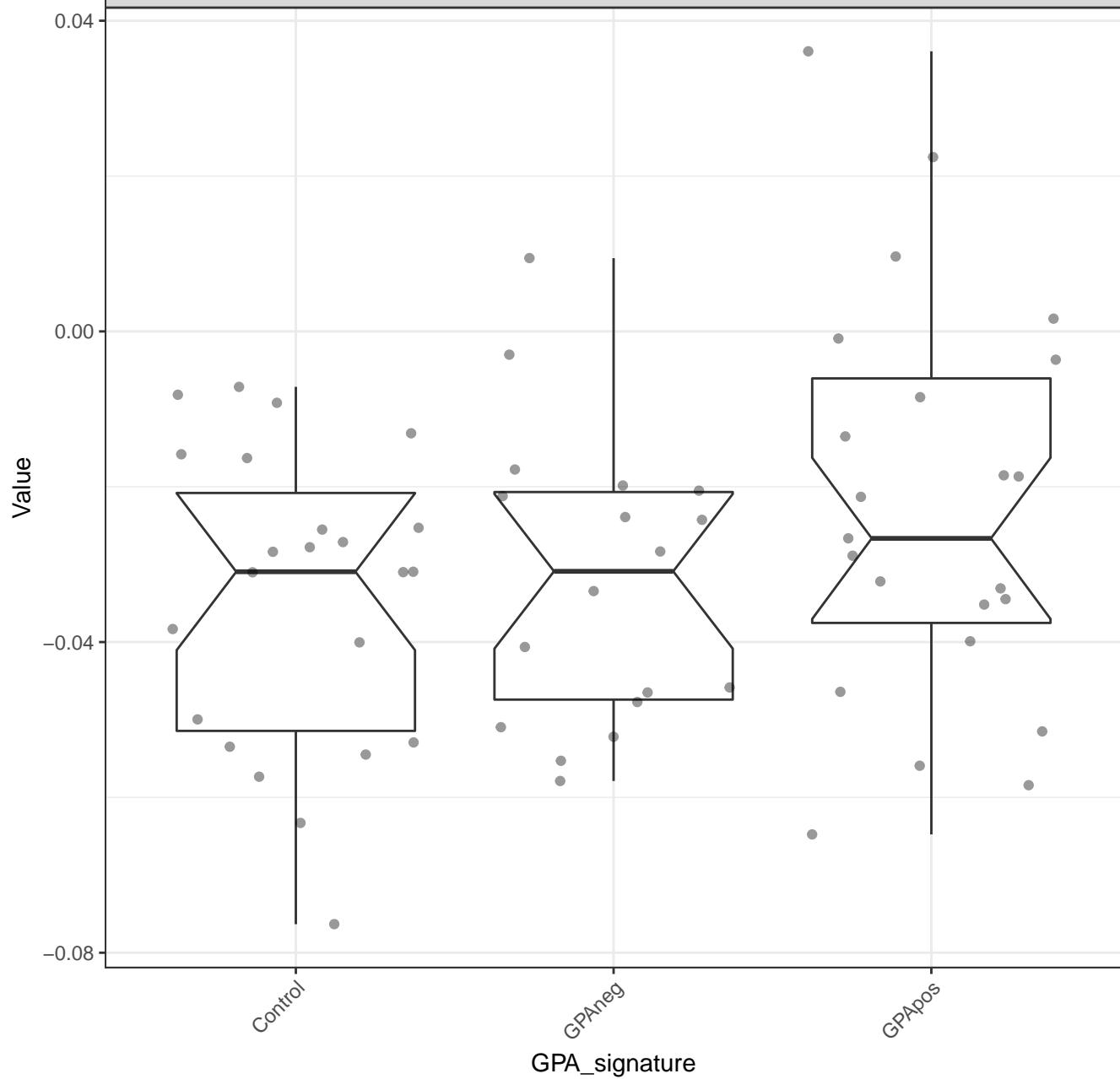
Control

GPAneg

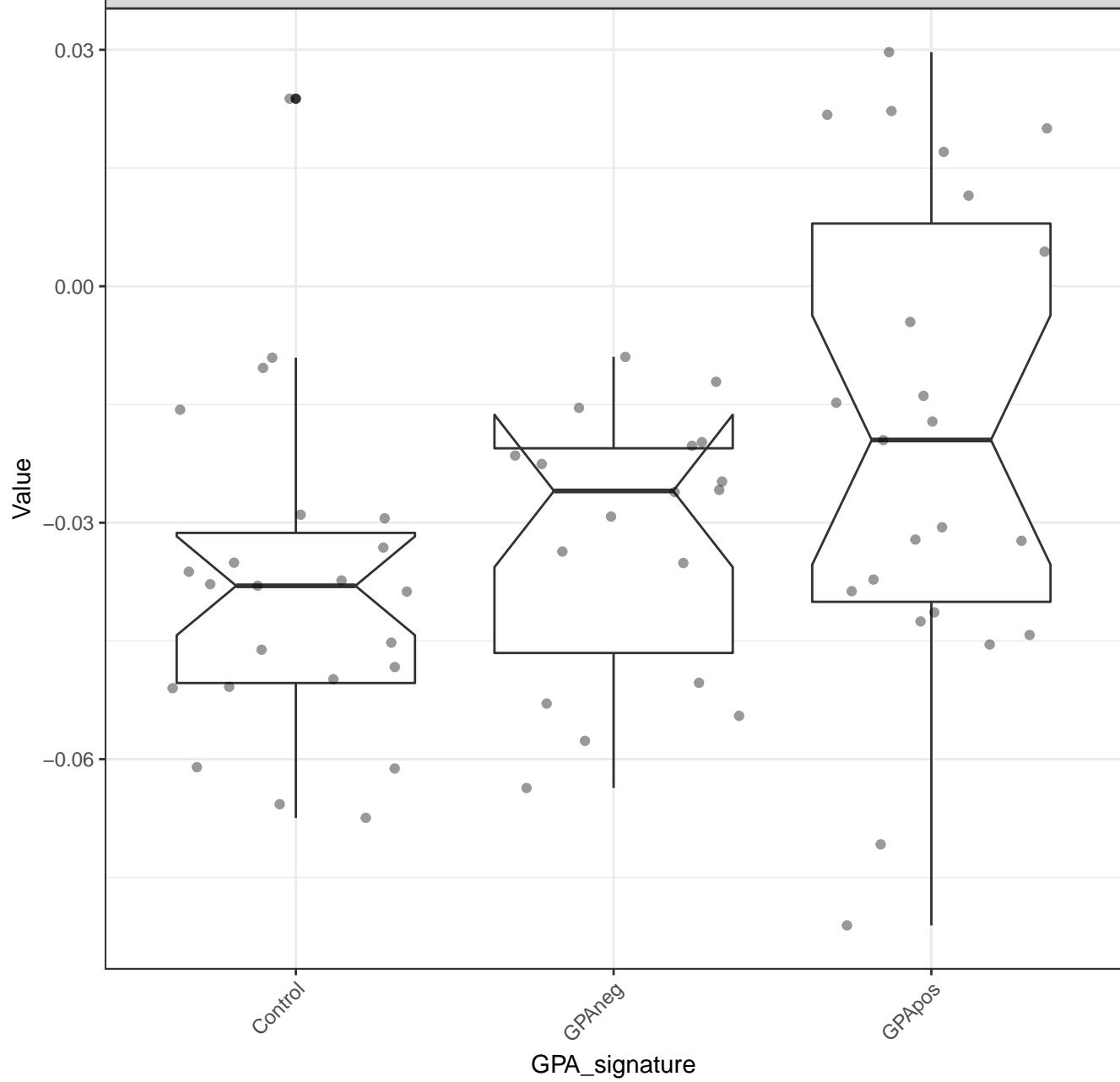
GPados

GPA\_signature

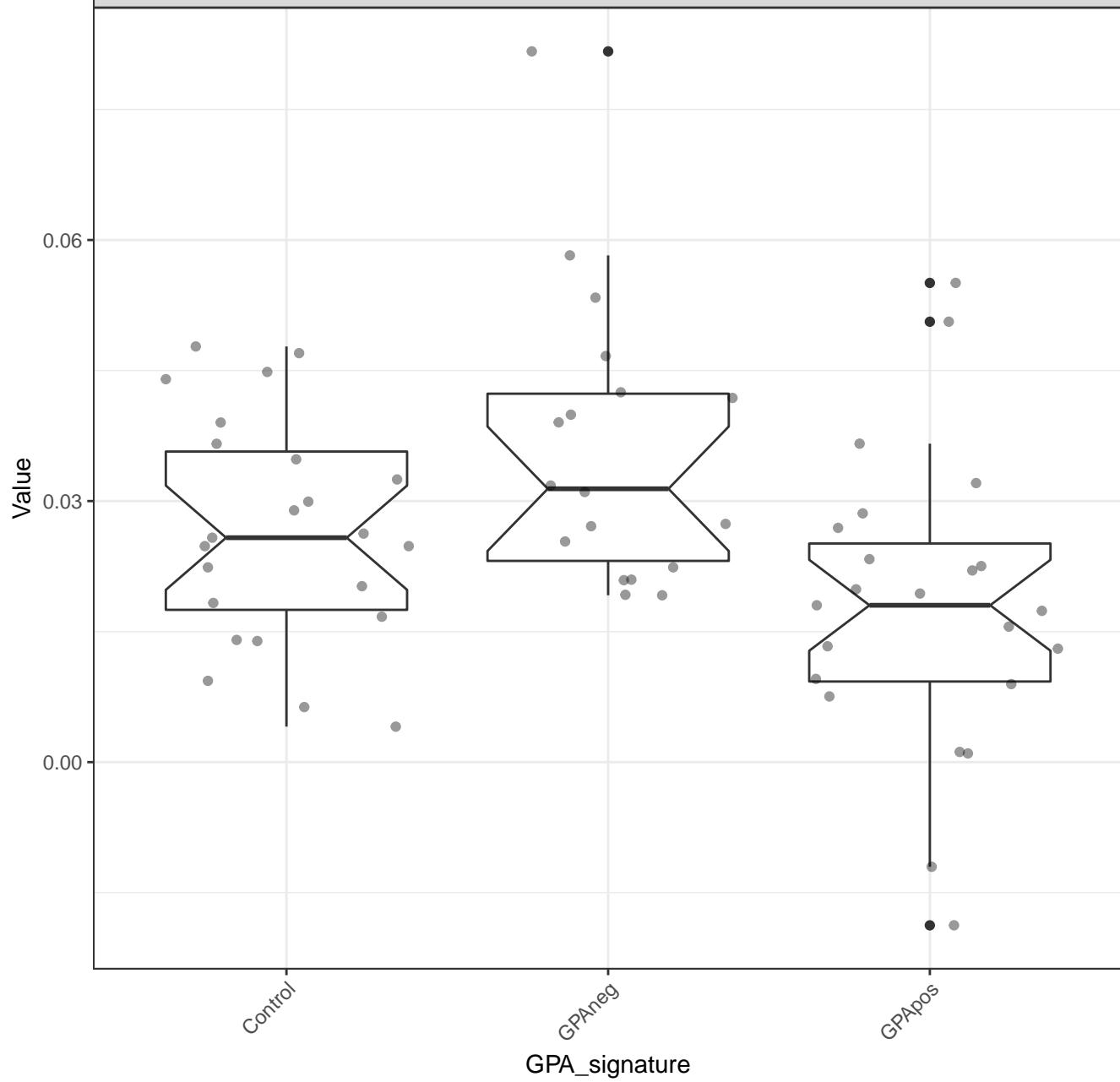
LV 290



LV 291



## LV 292



LV 293

Value

0.05

0.00

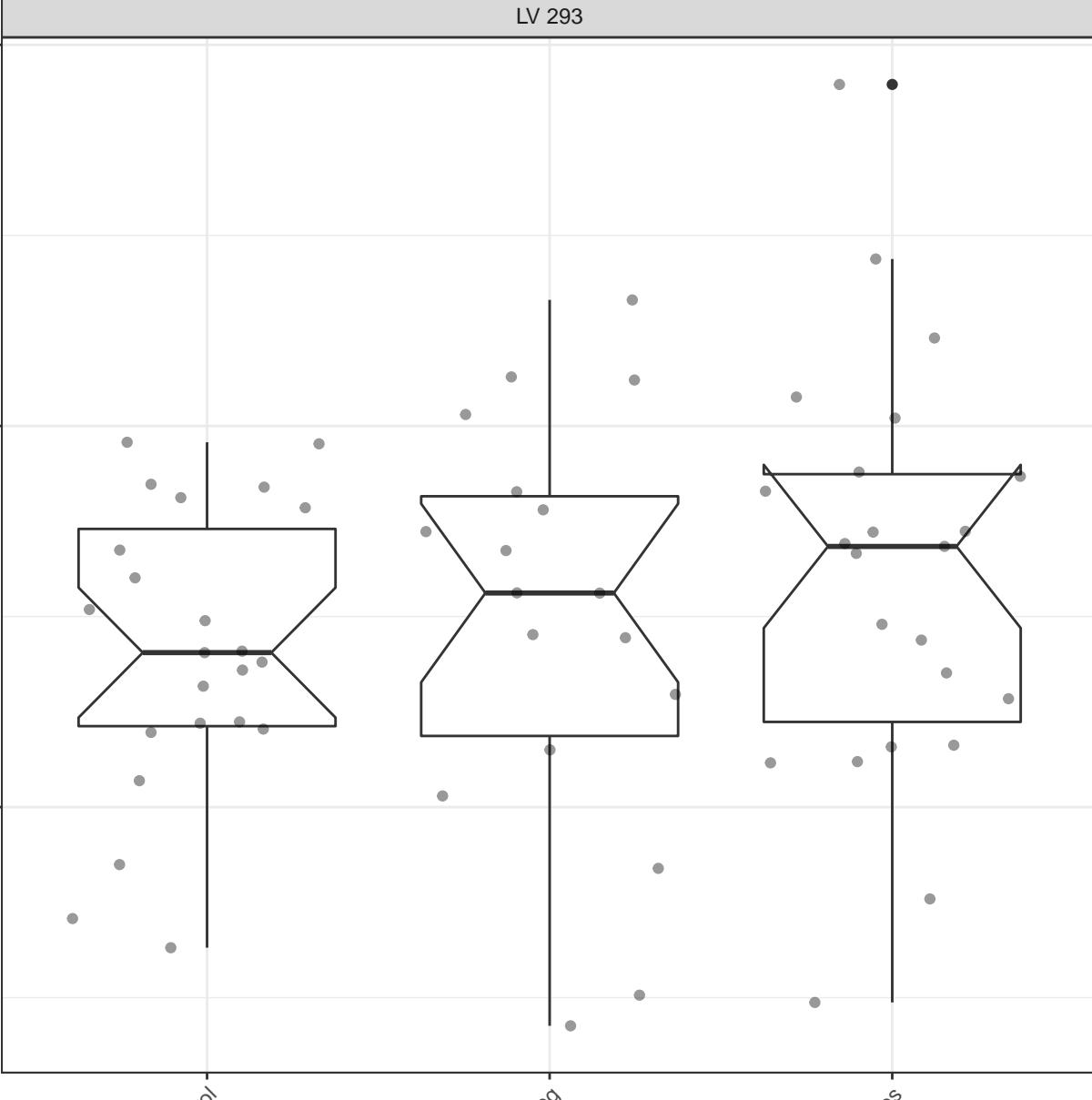
-0.05

Control

GPA\_signature

GPAneg

GPApos



LV 294

Value

0.04

0.02

0.00

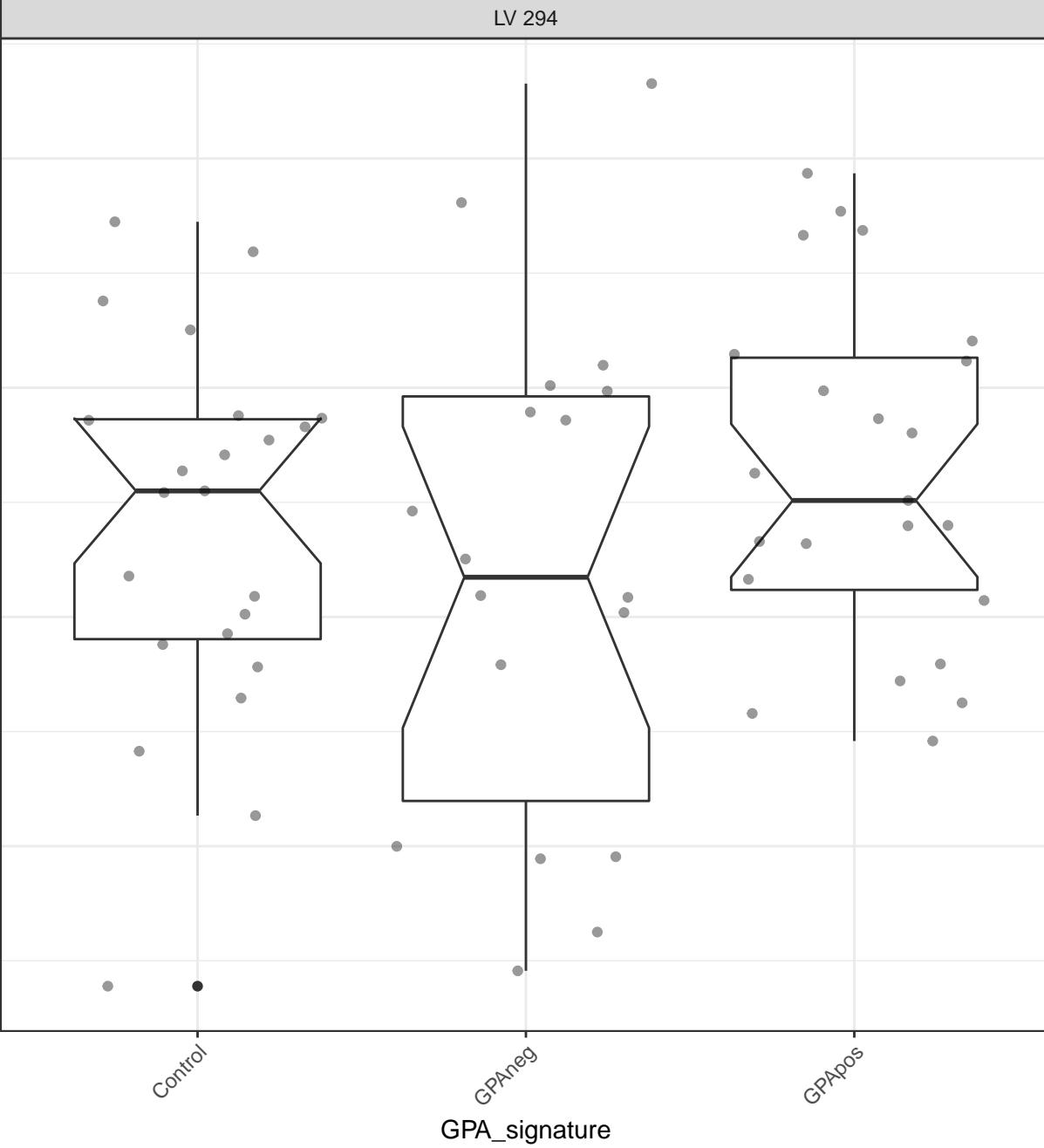
-0.02

Control

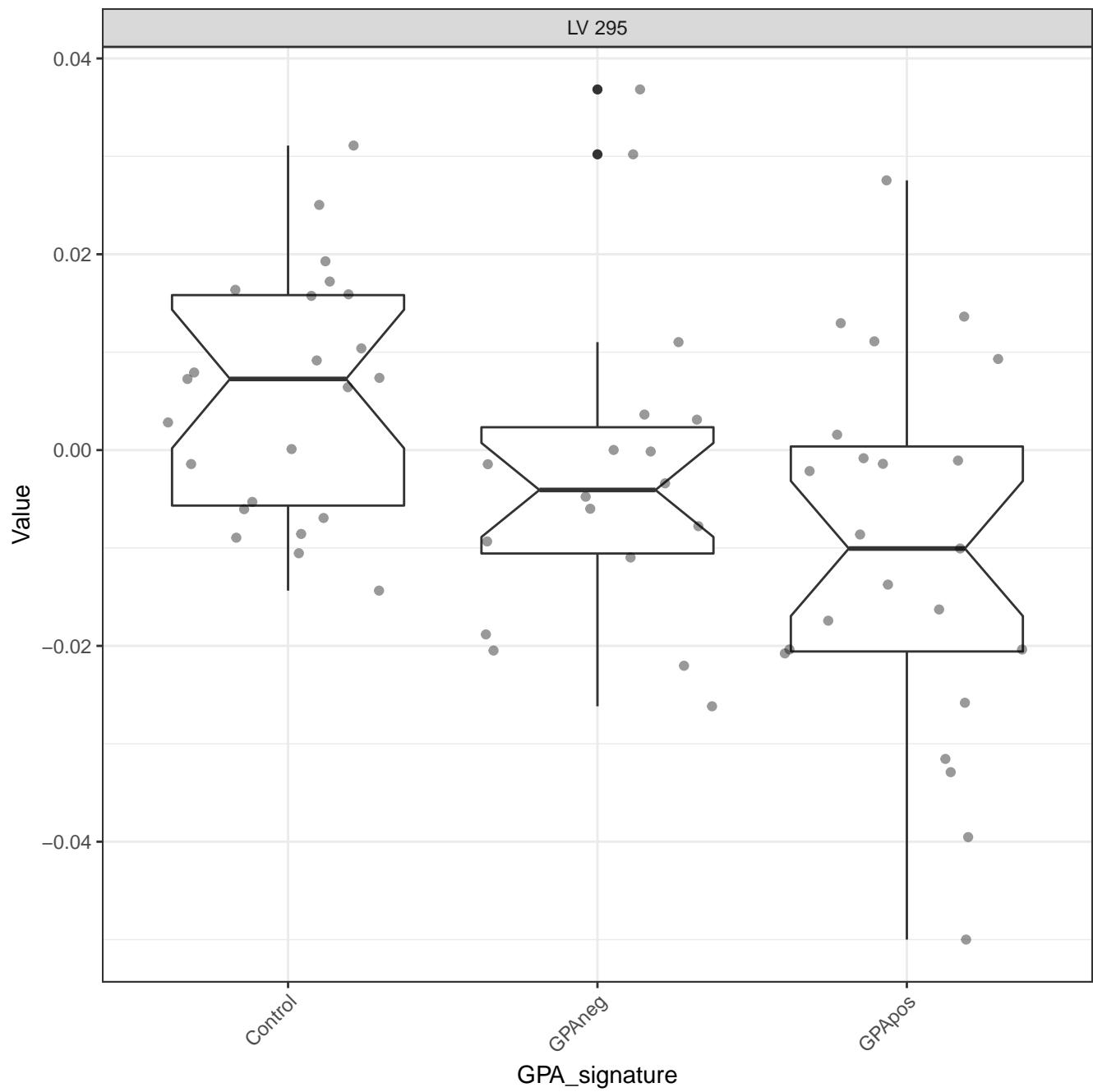
GPA\_signature

GPAneg

GPApos



LV 295



## 296,REACTOME\_TELOMERE\_MAINTENANCE

Value

0.04

0.02

0.00

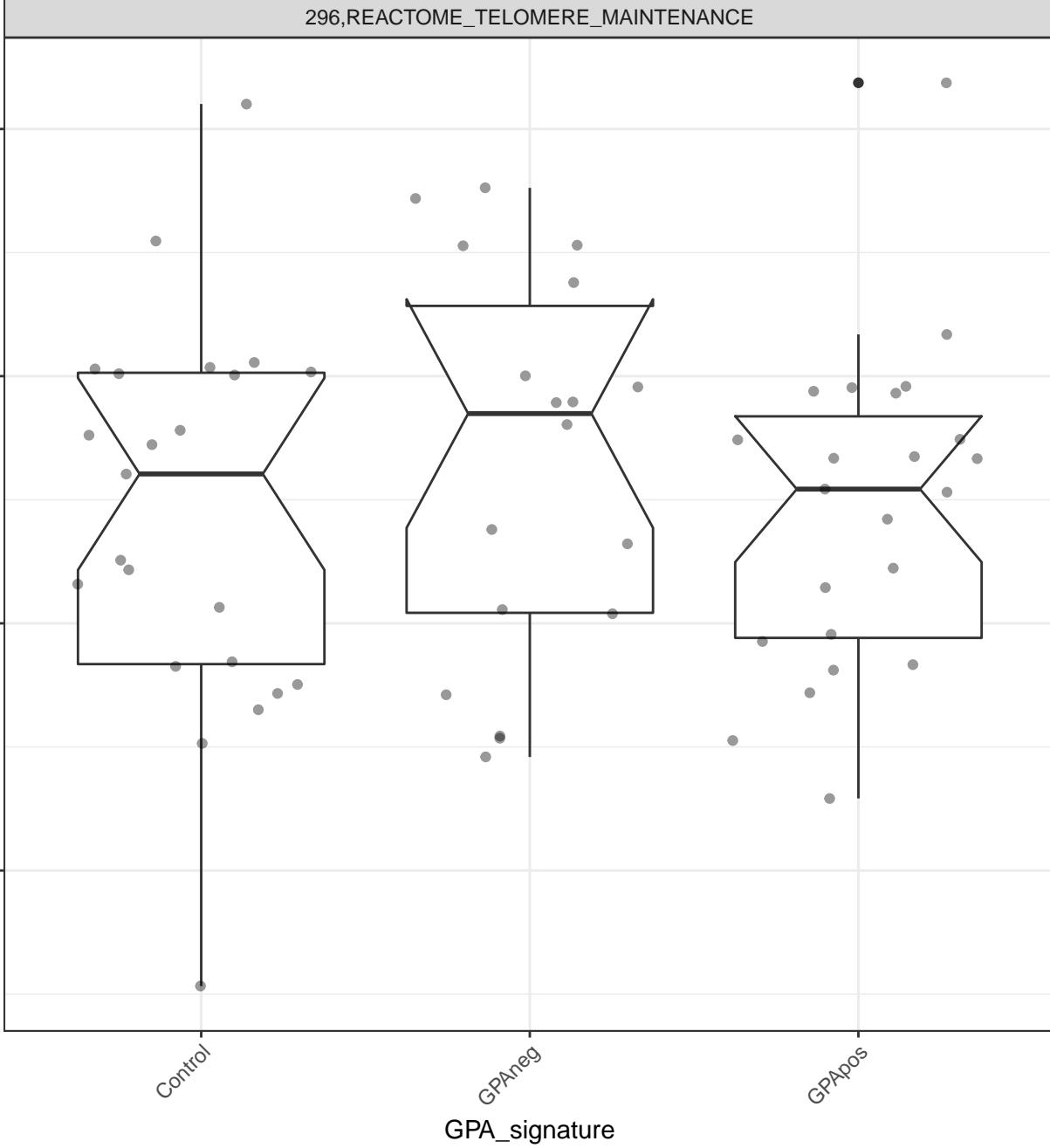
-0.02

Control

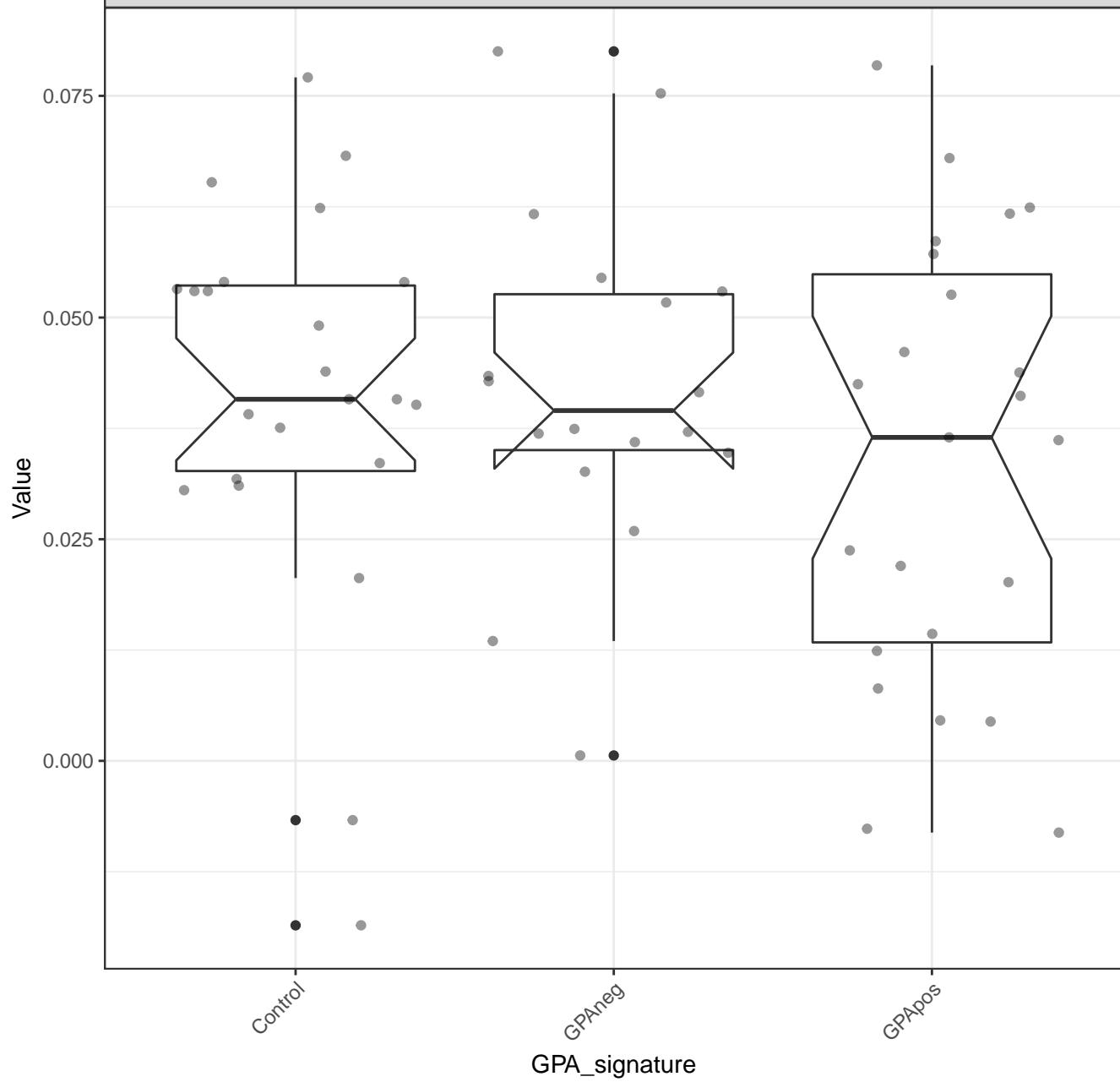
GPAneg

GPAPos

GPA\_signature



LV 297



LV 298

Value

0.05

0.00

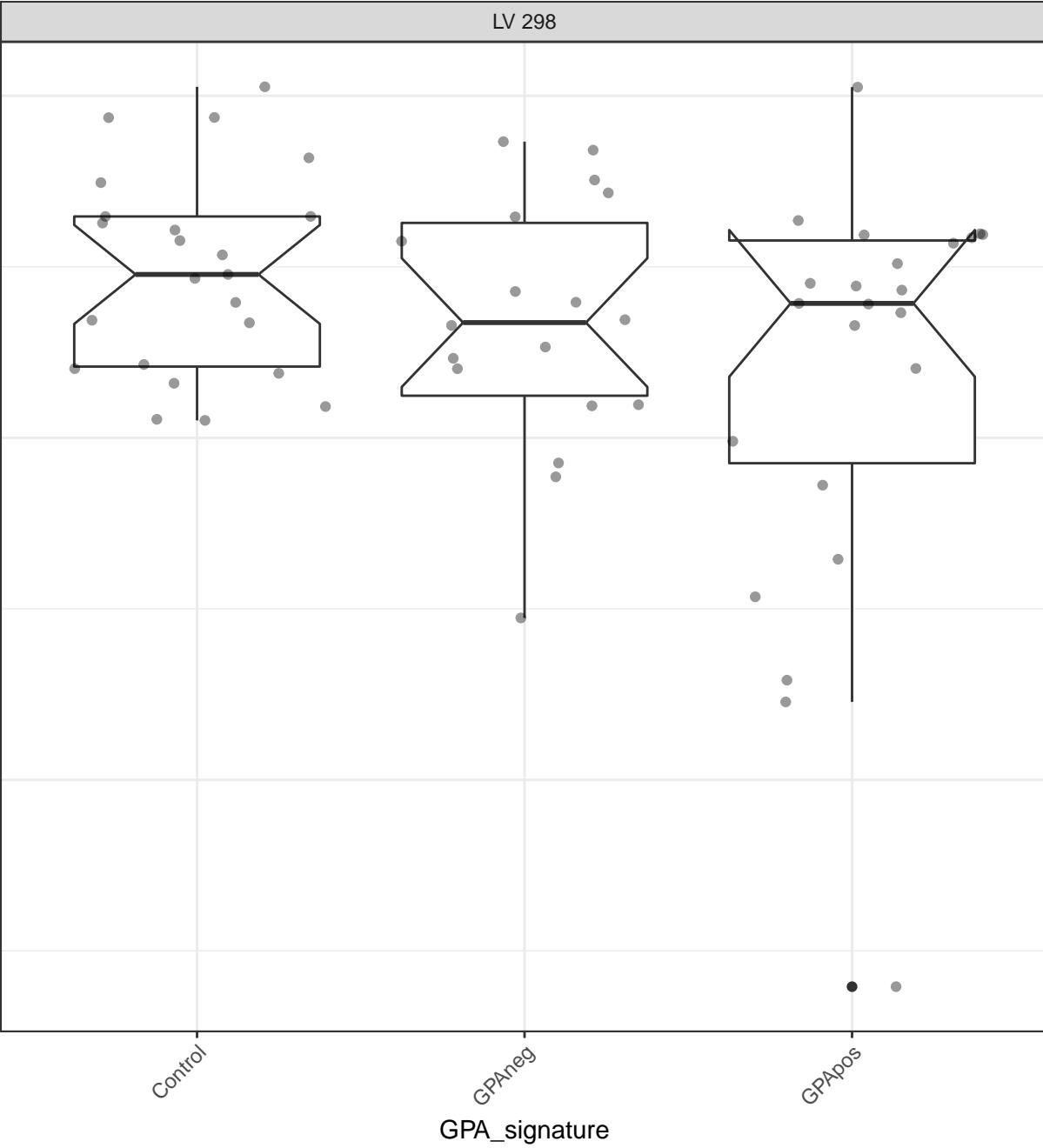
-0.05

Control

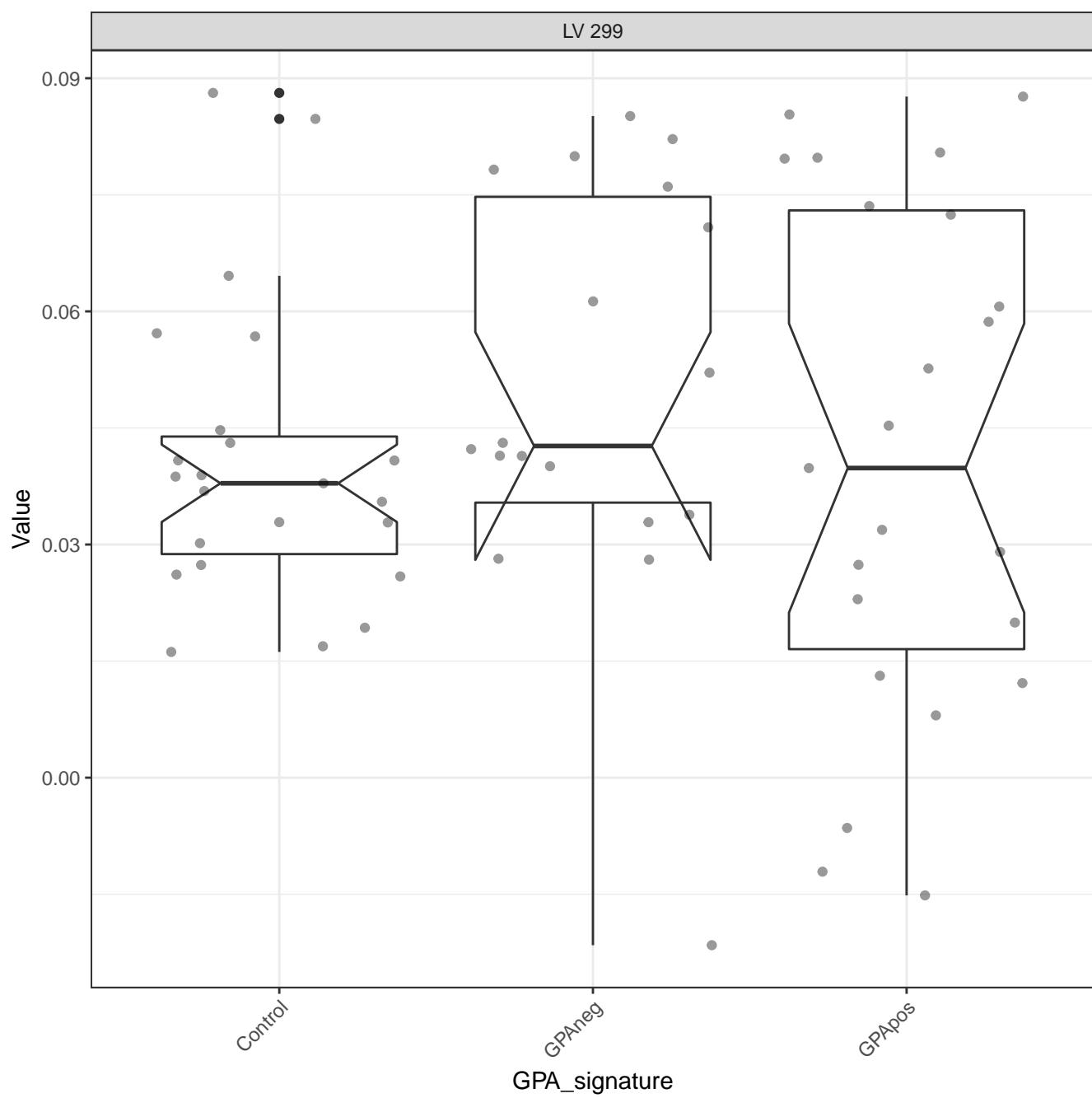
GPAneg

GPApos

GPA\_signature



LV 299



## 300,REACTOME\_REGULATION\_OF\_APOPTOSIS

Value

0.050

0.025

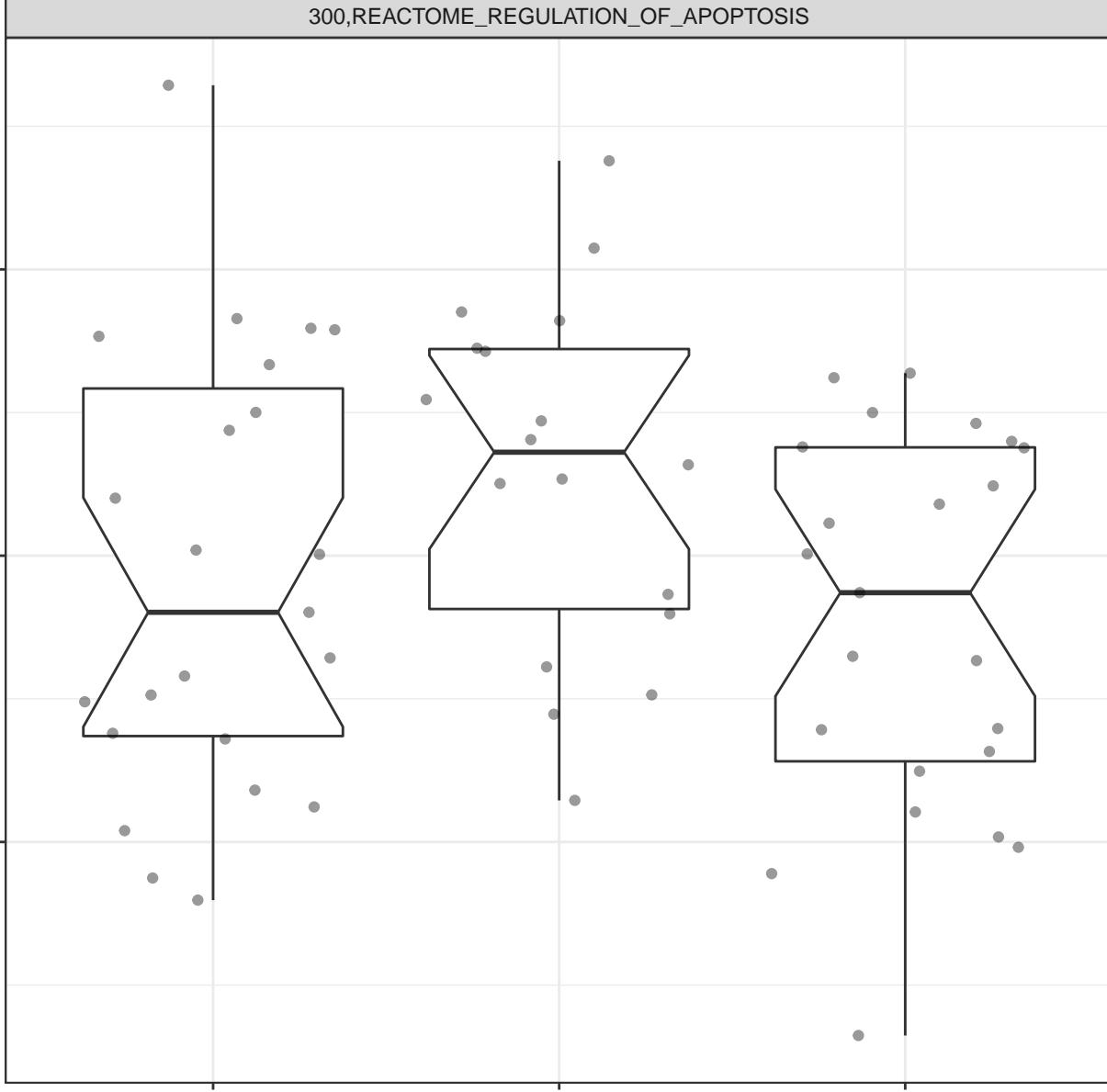
0.000

Control

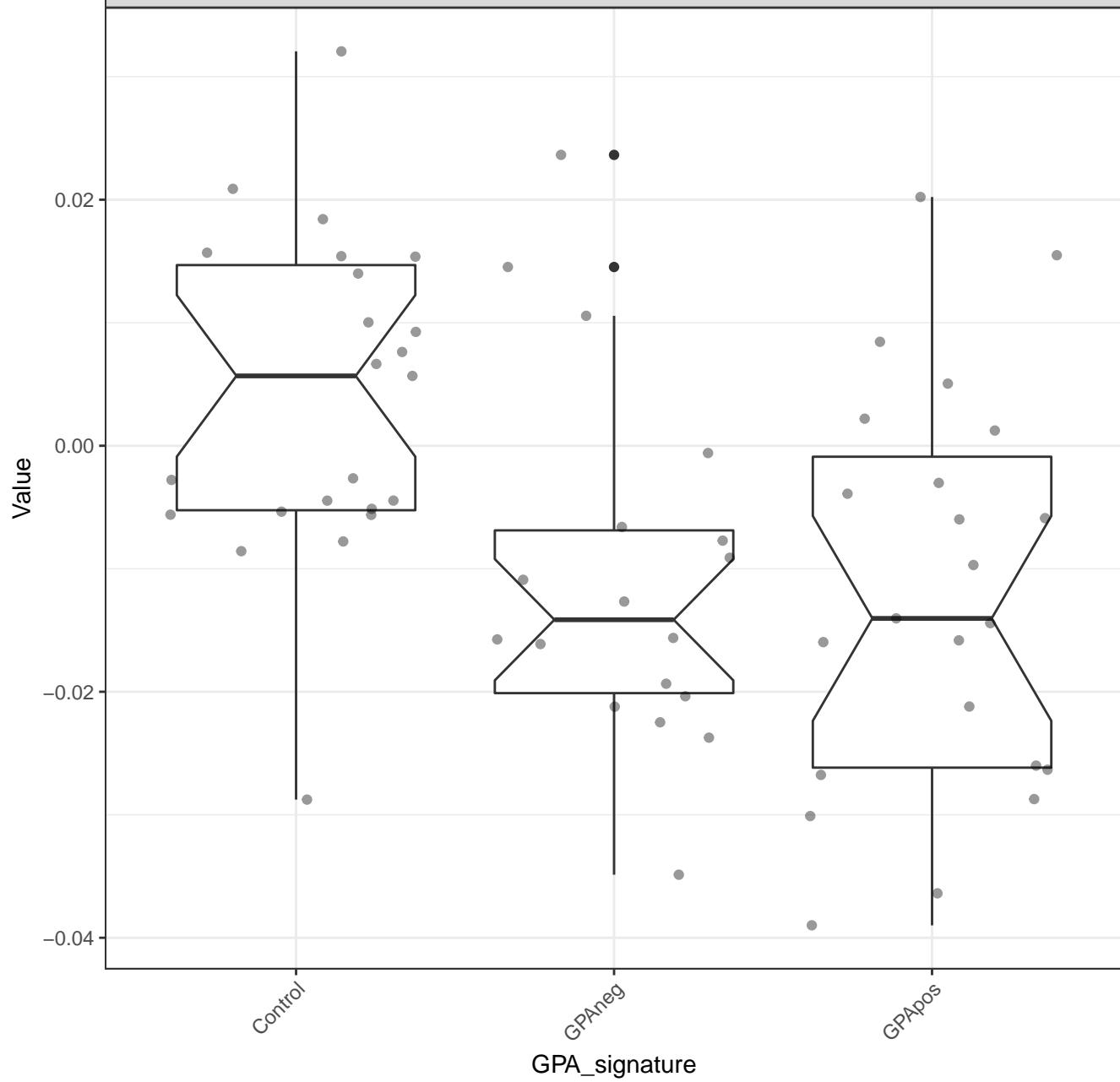
GPA\_signature

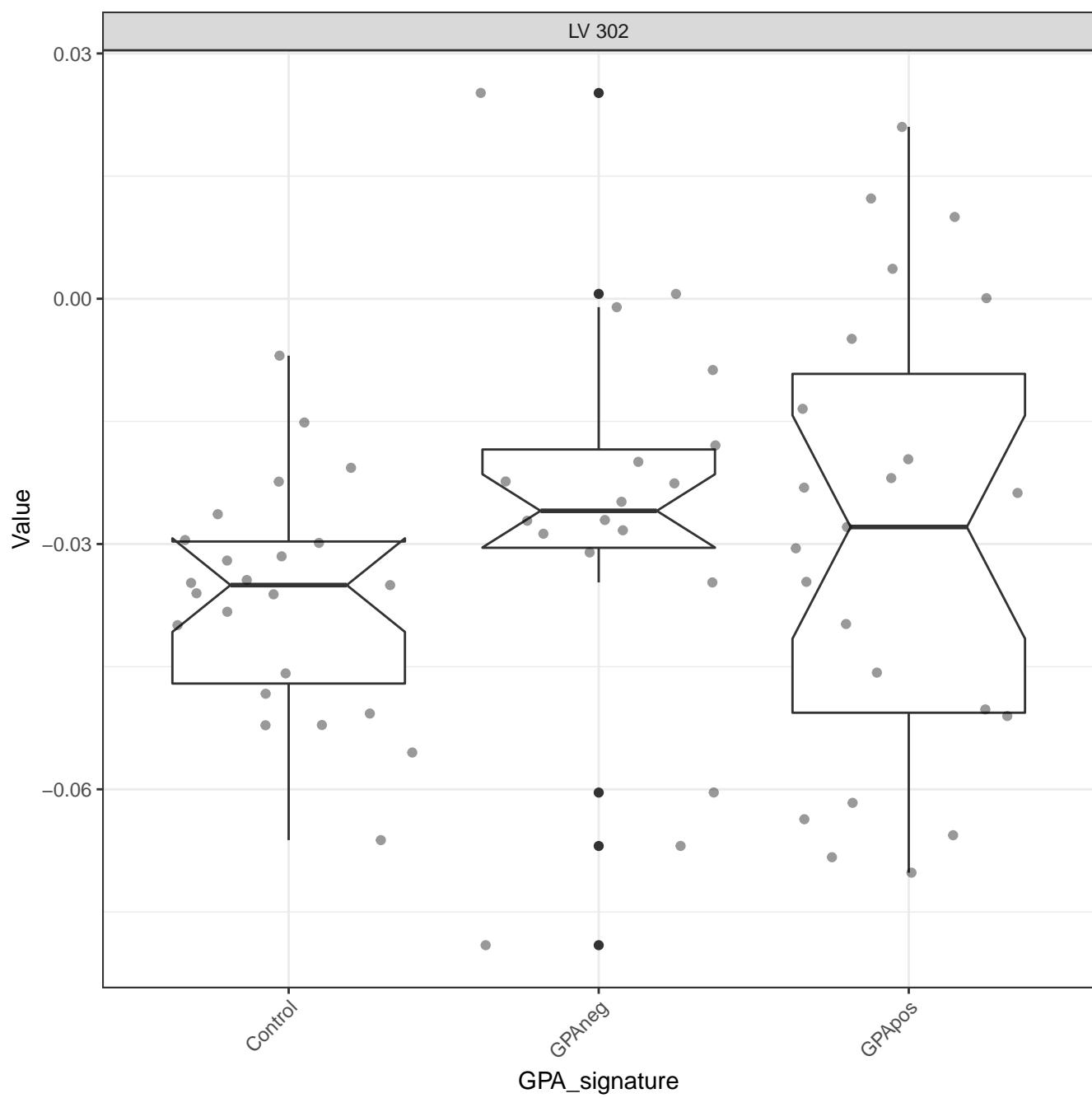
GPNeg

GPAPos

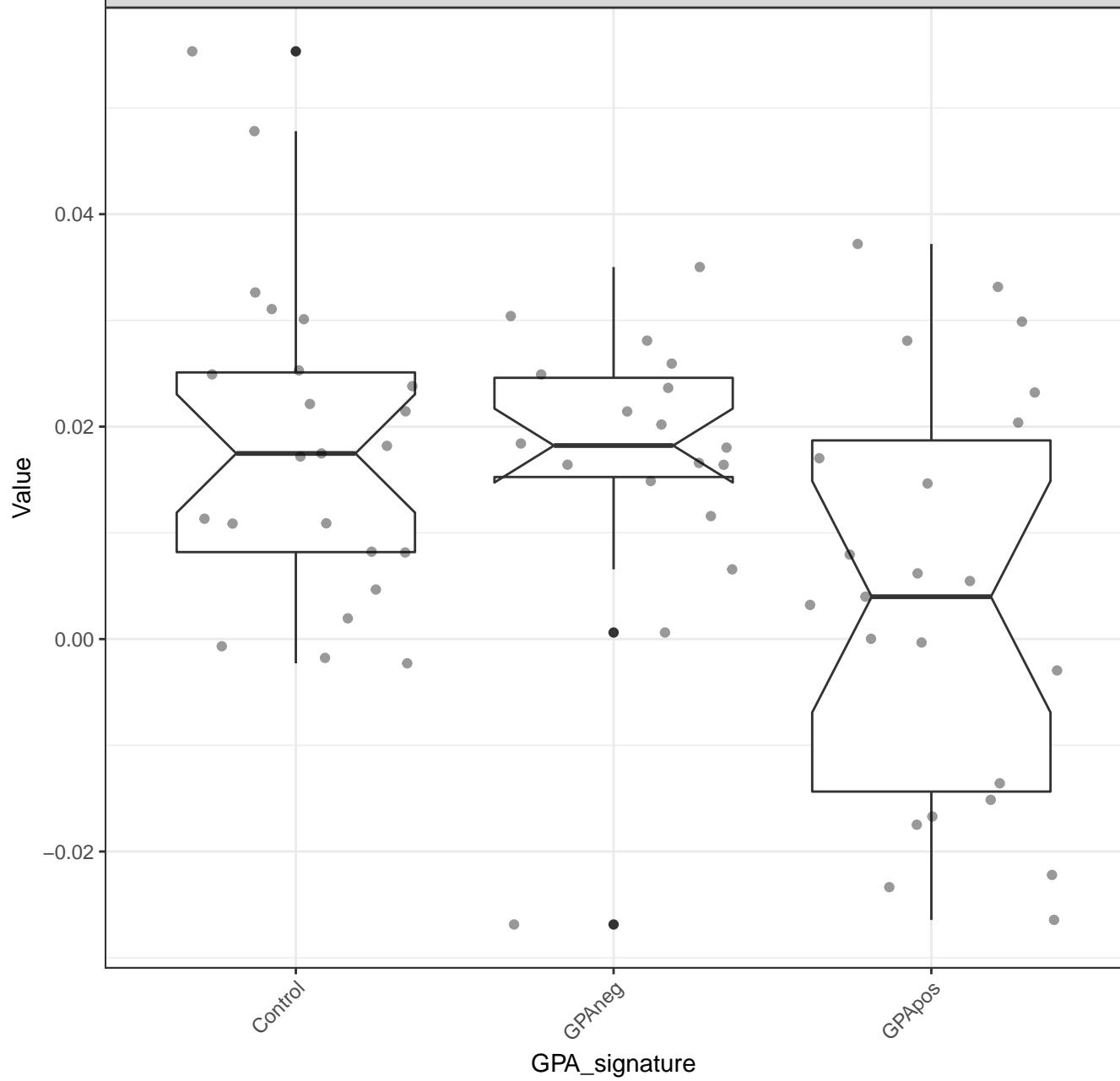


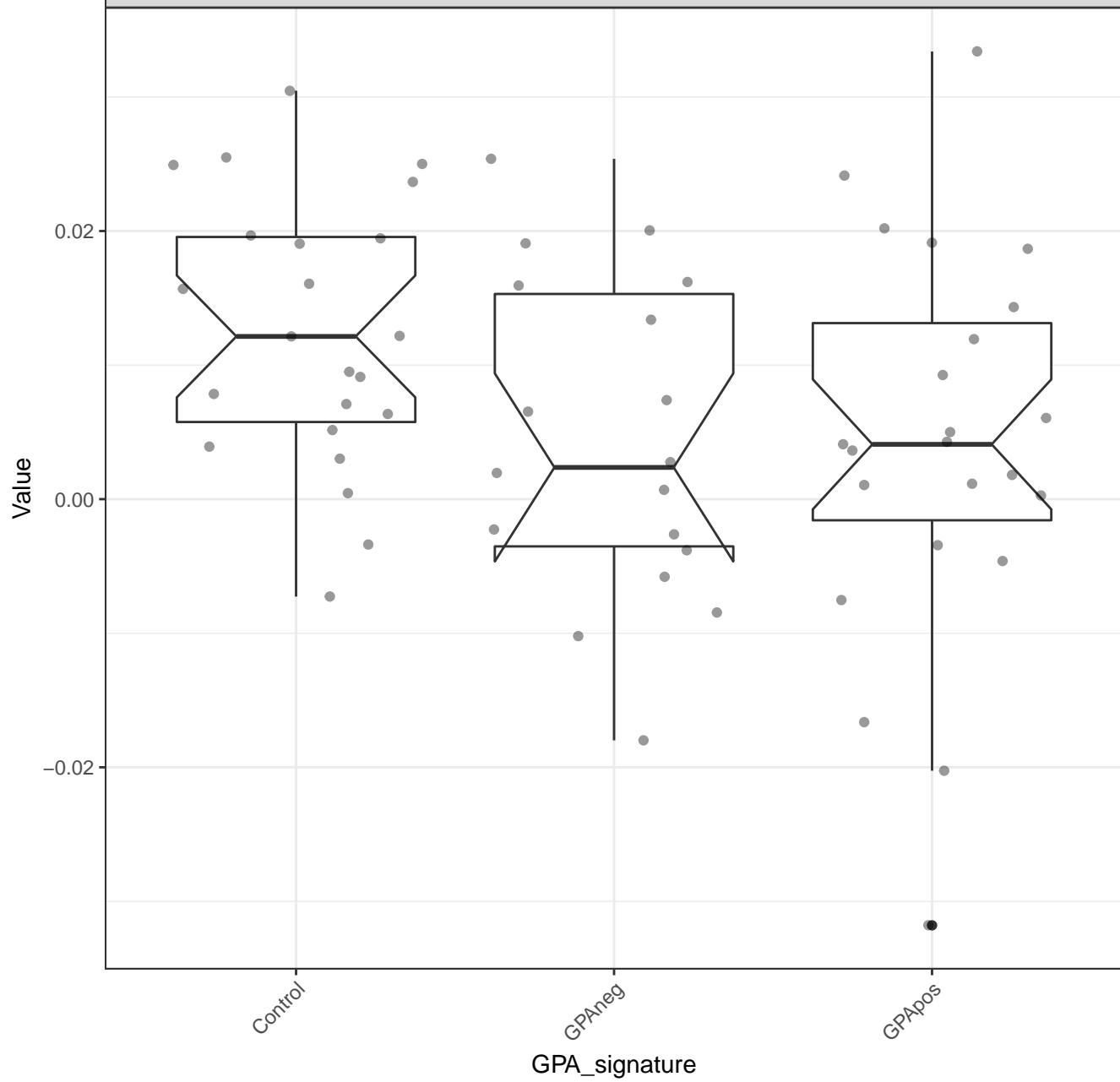
## LV 301





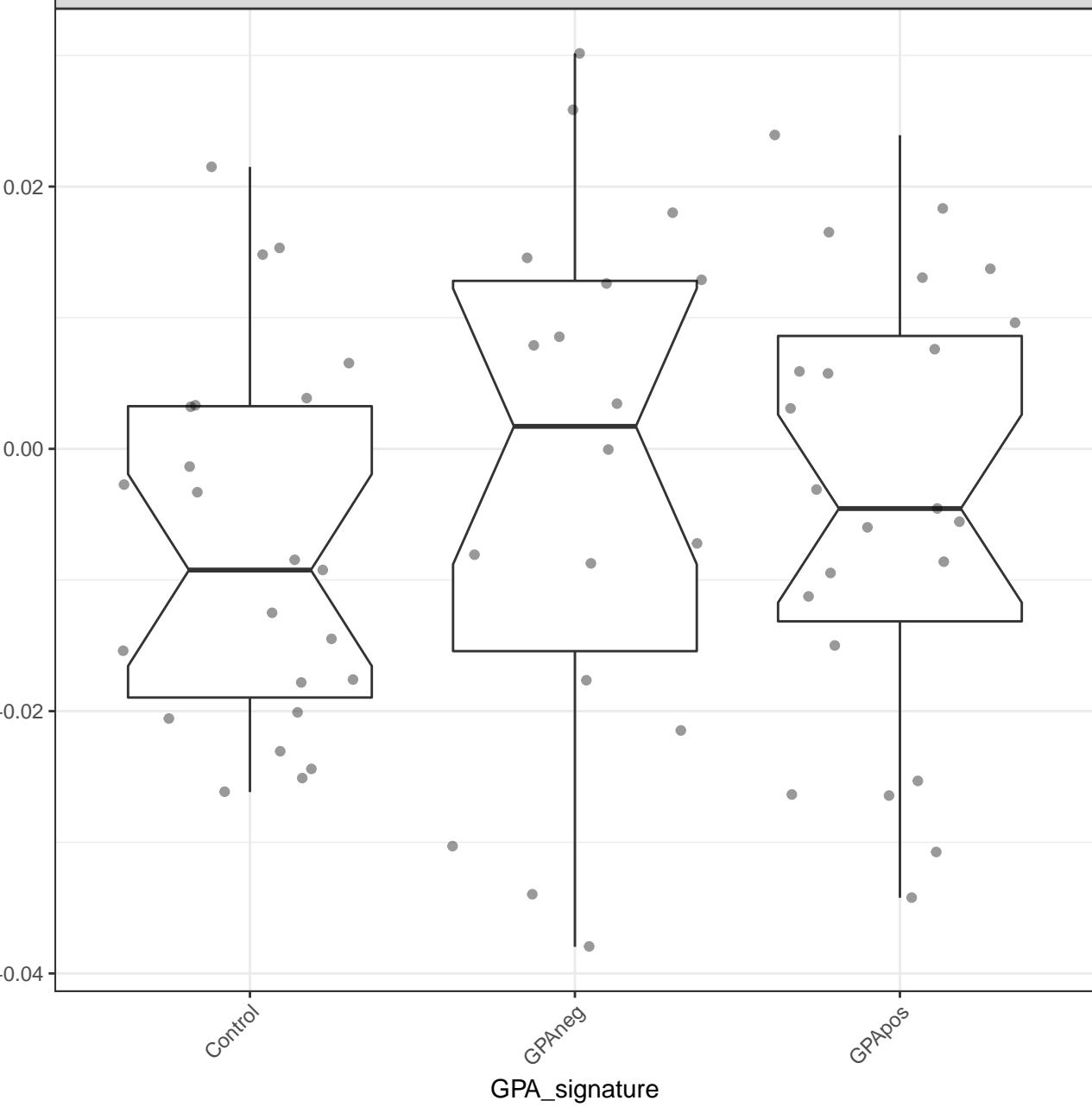
## LV 303



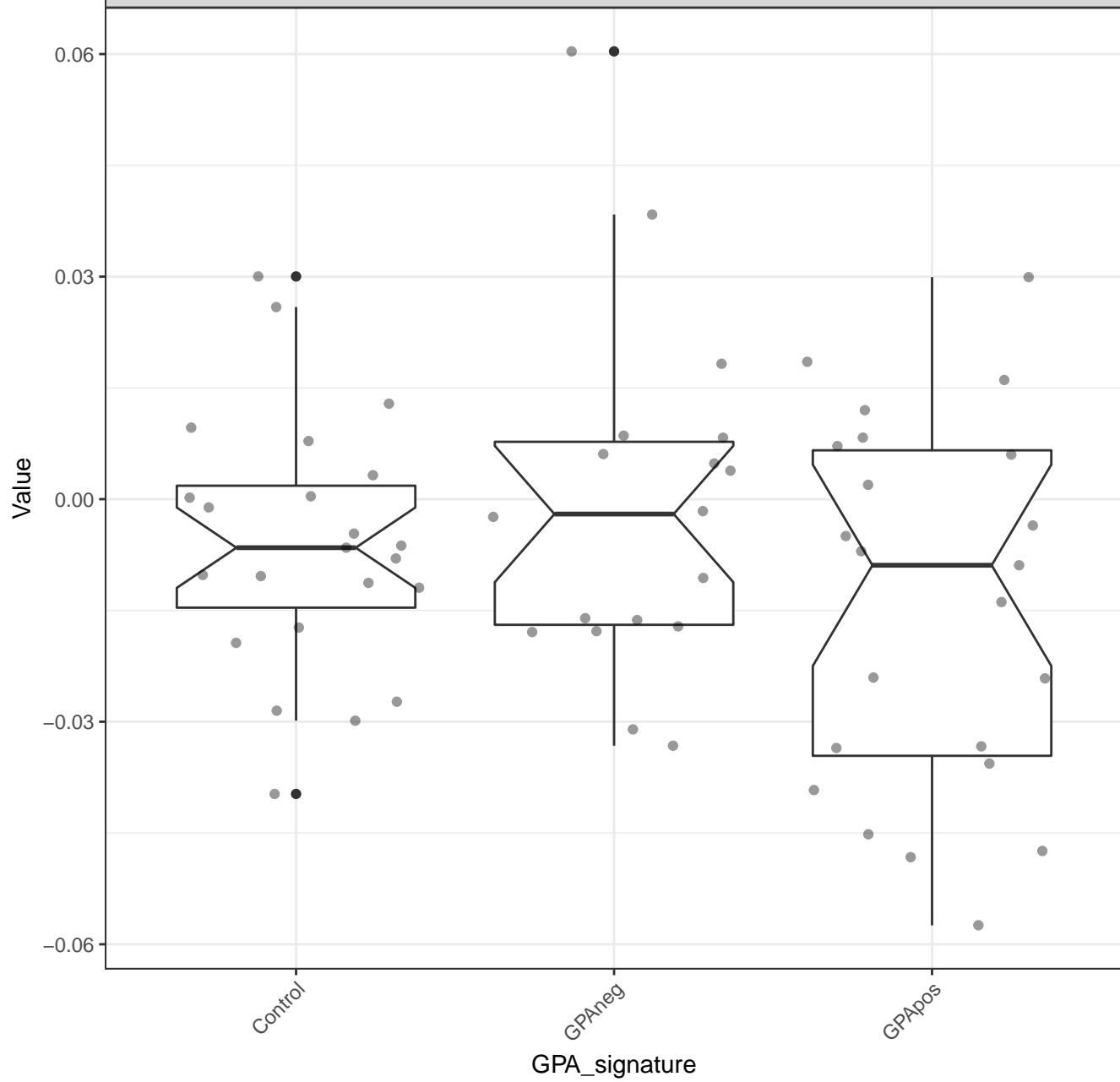


LV 305

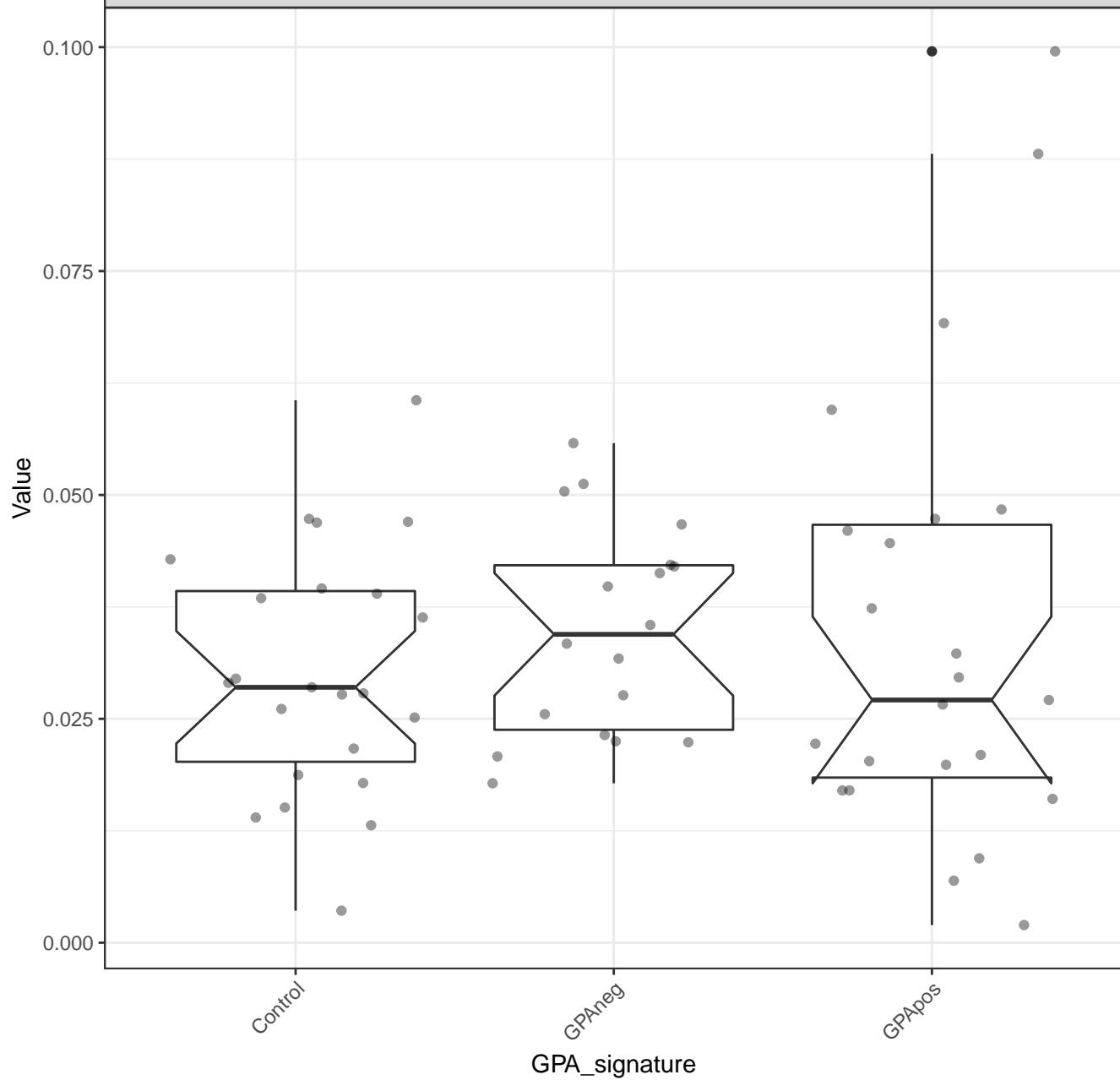
Value



## LV 306



## LV 307



## LV 308

Value

0.04

0.02

0.00

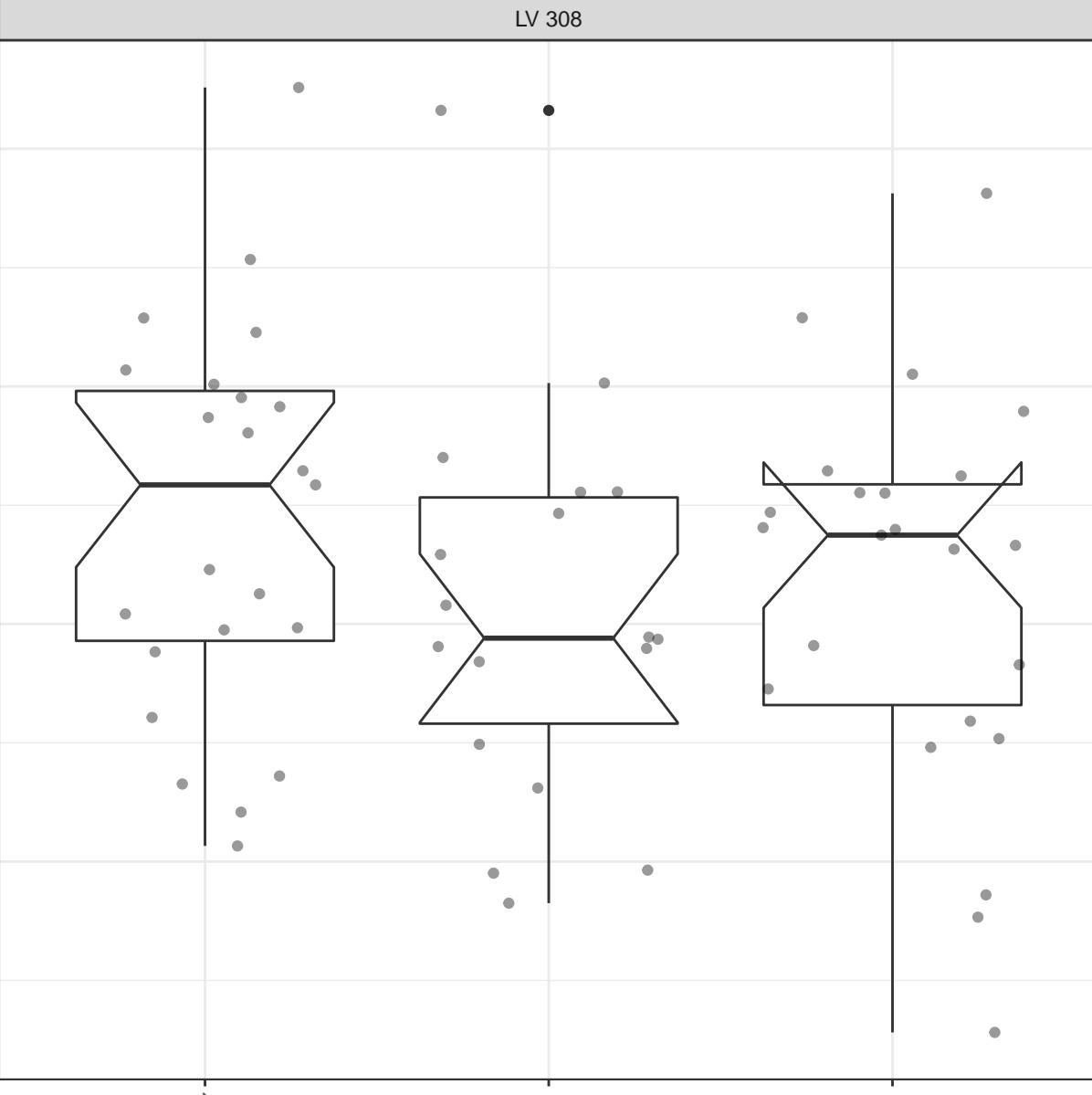
-0.02

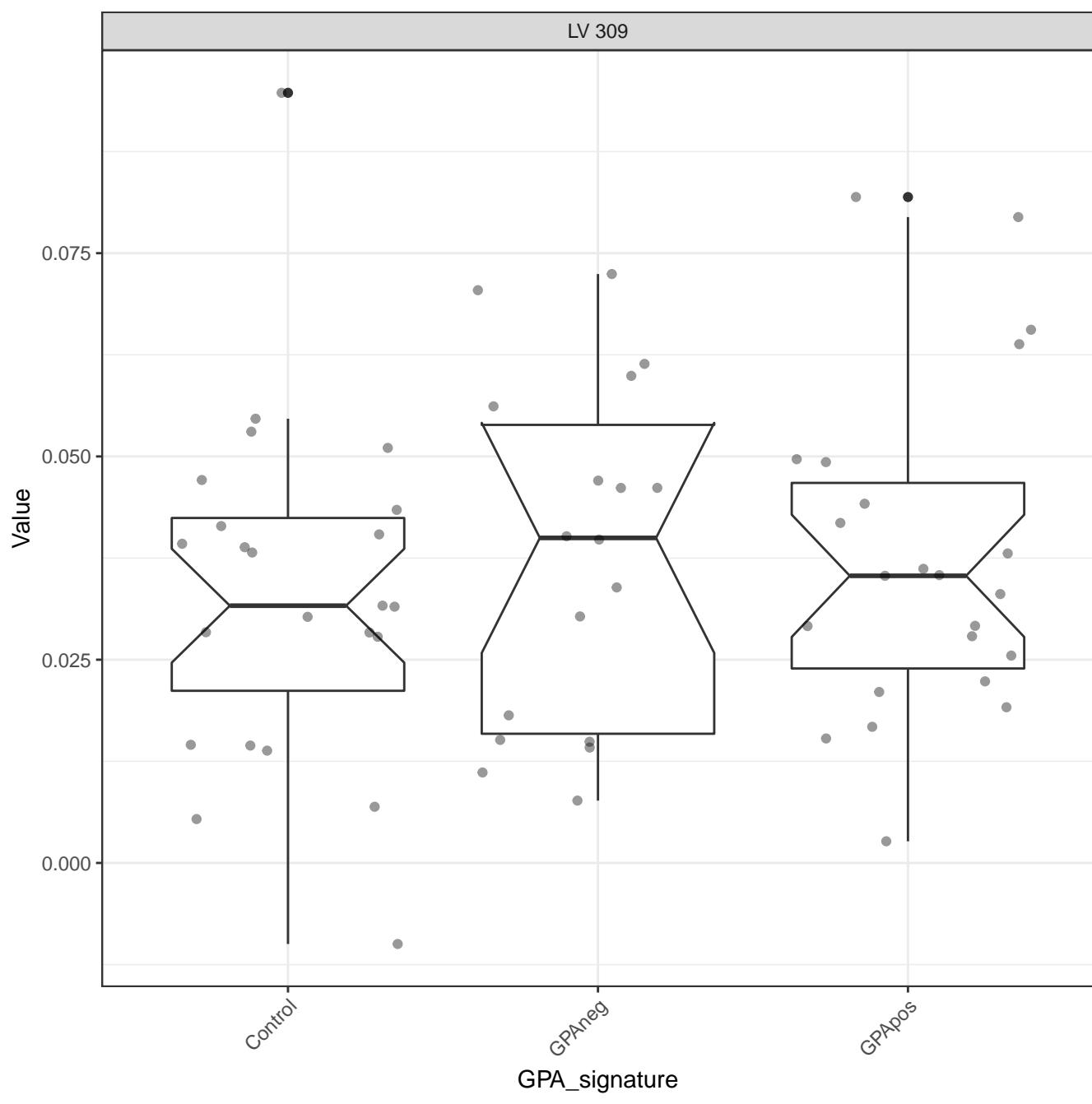
Control

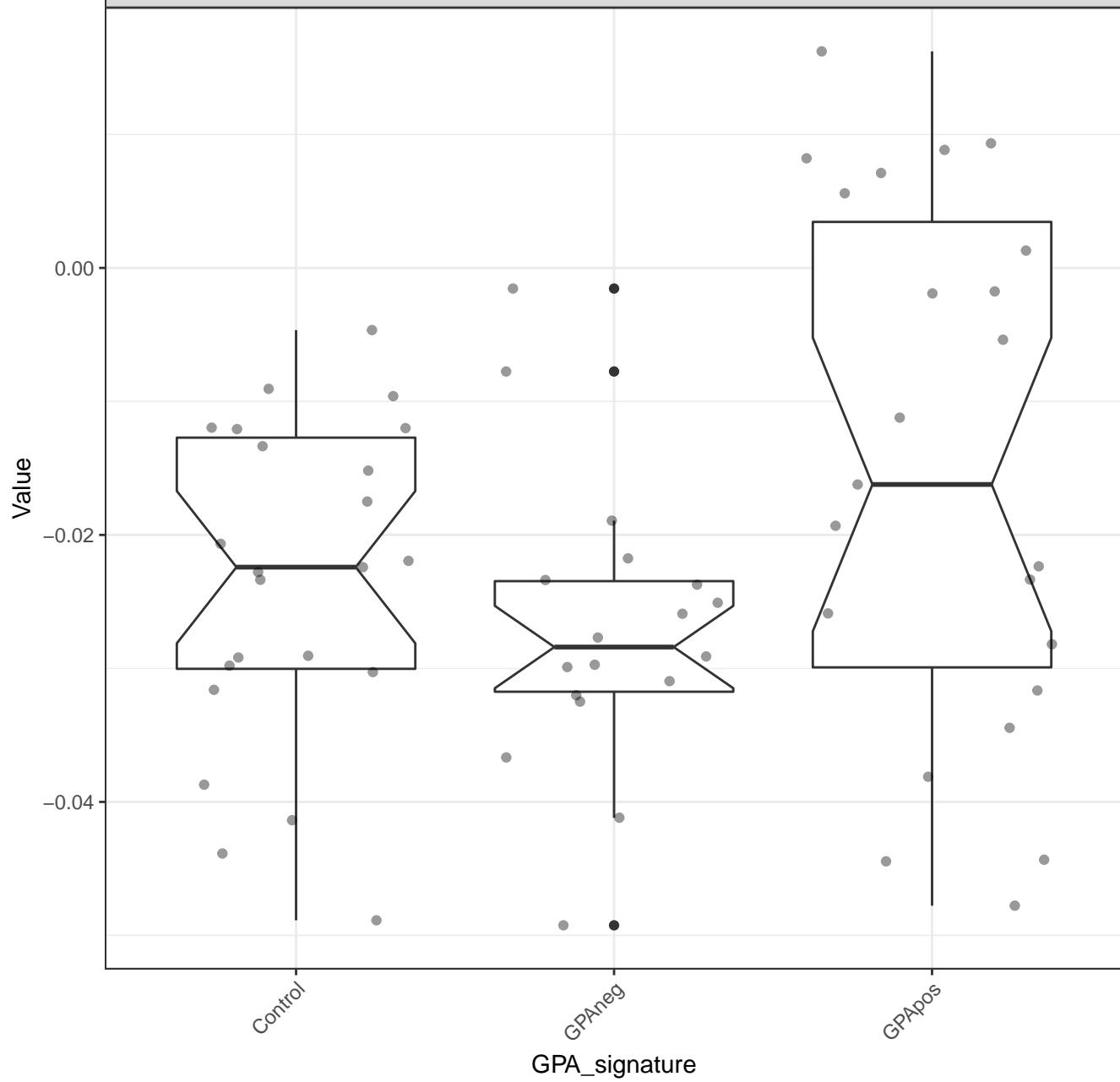
GPA\_signature

GPAneg

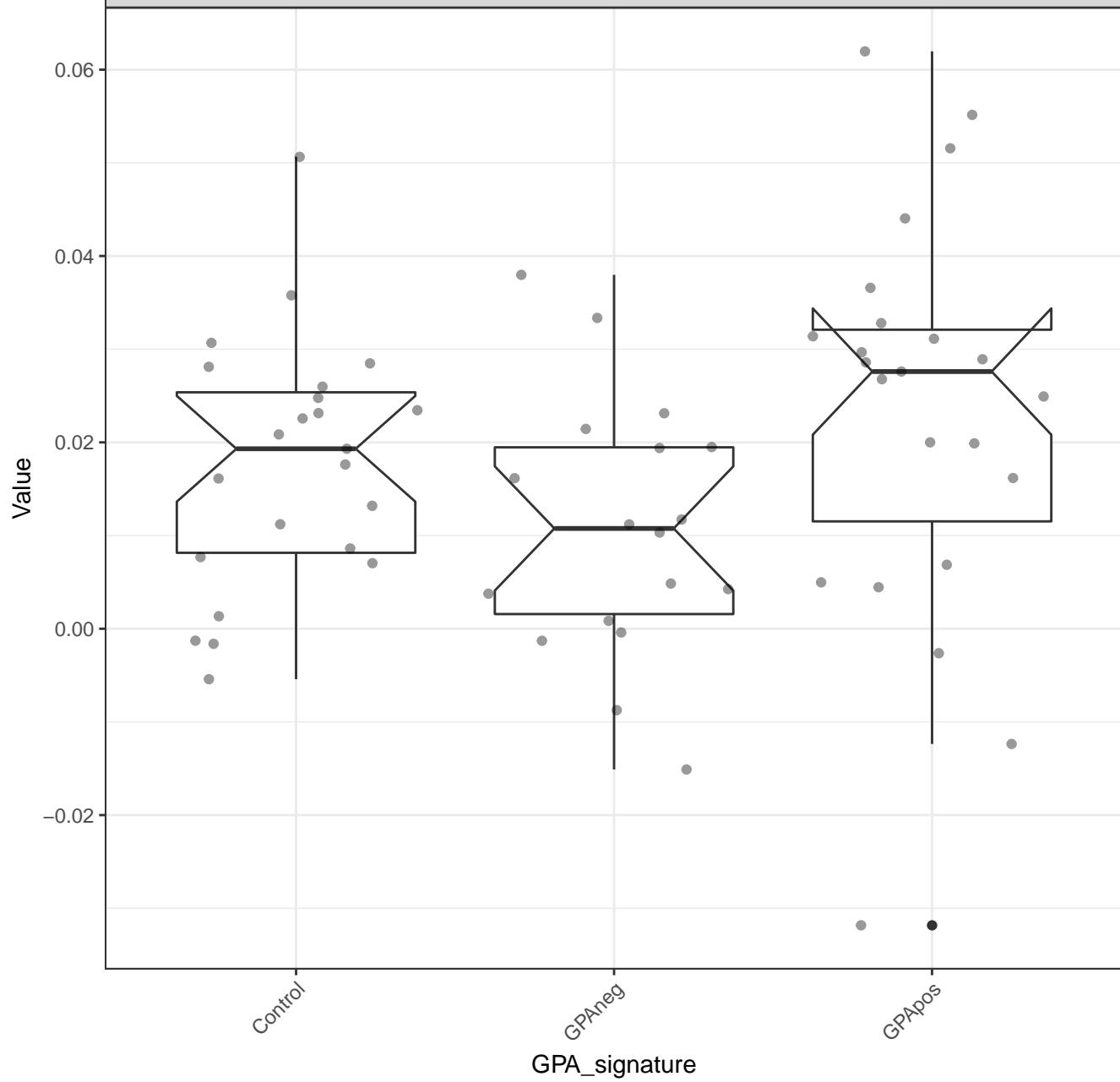
GPApos



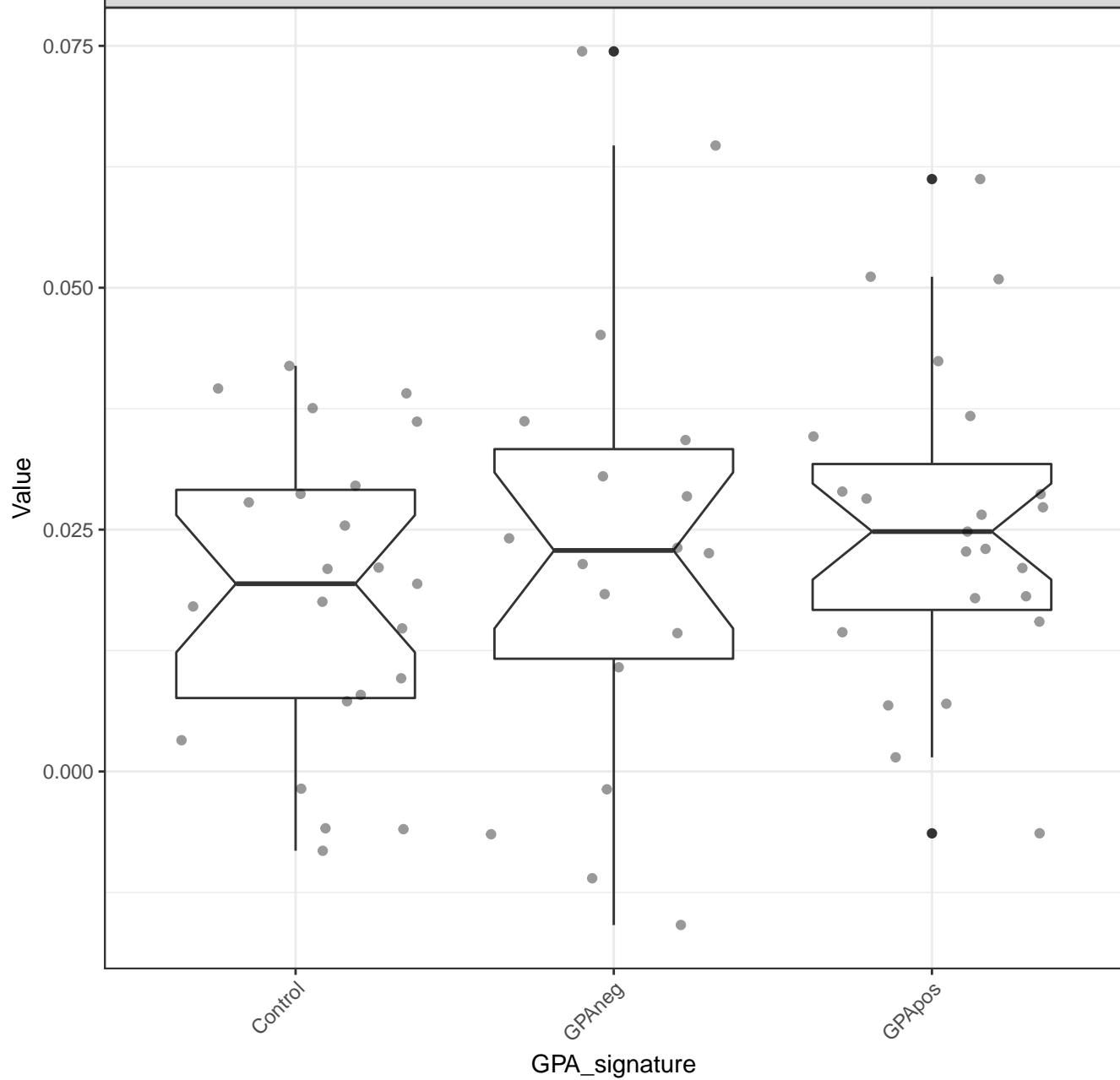




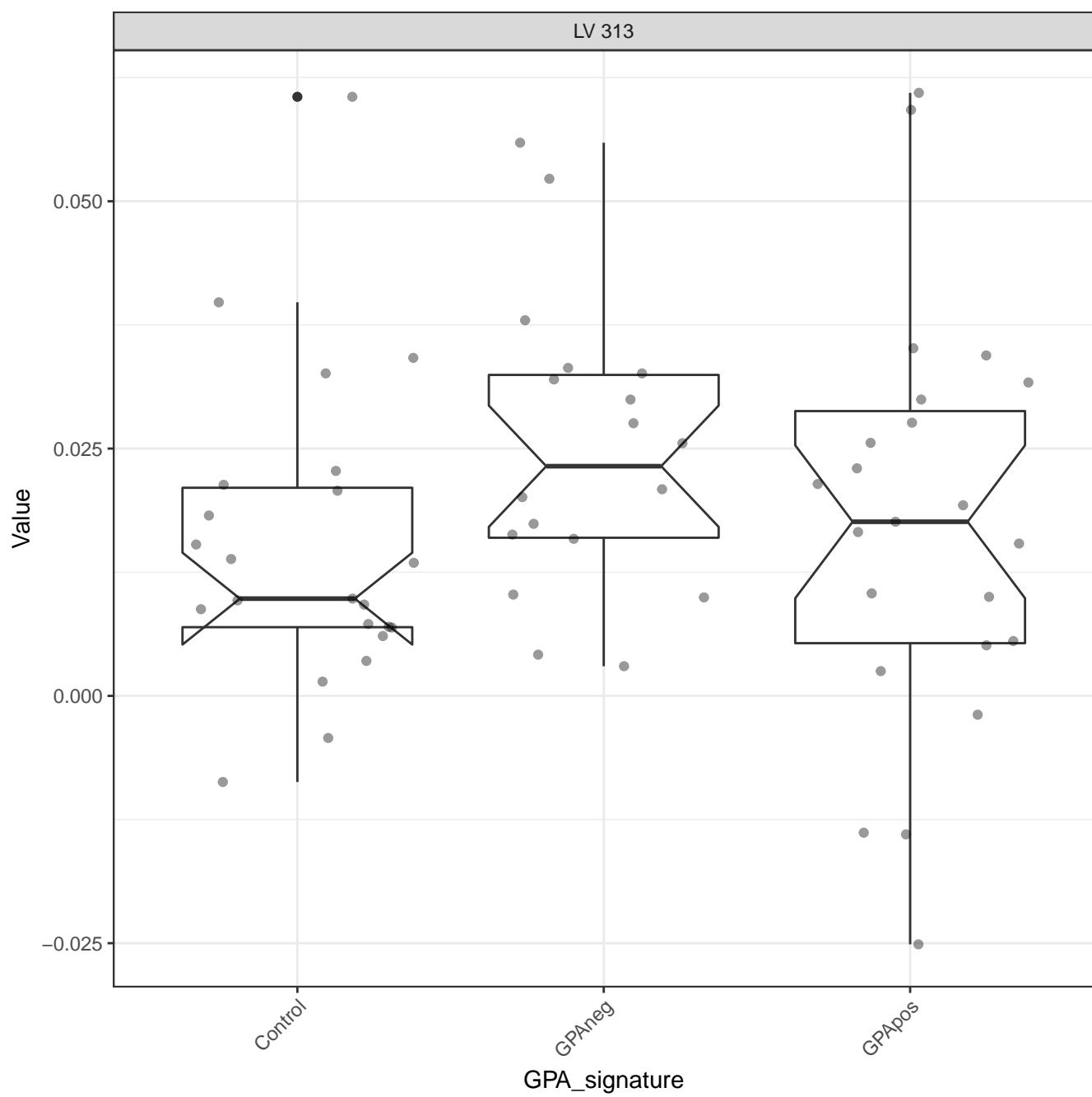
## LV 311



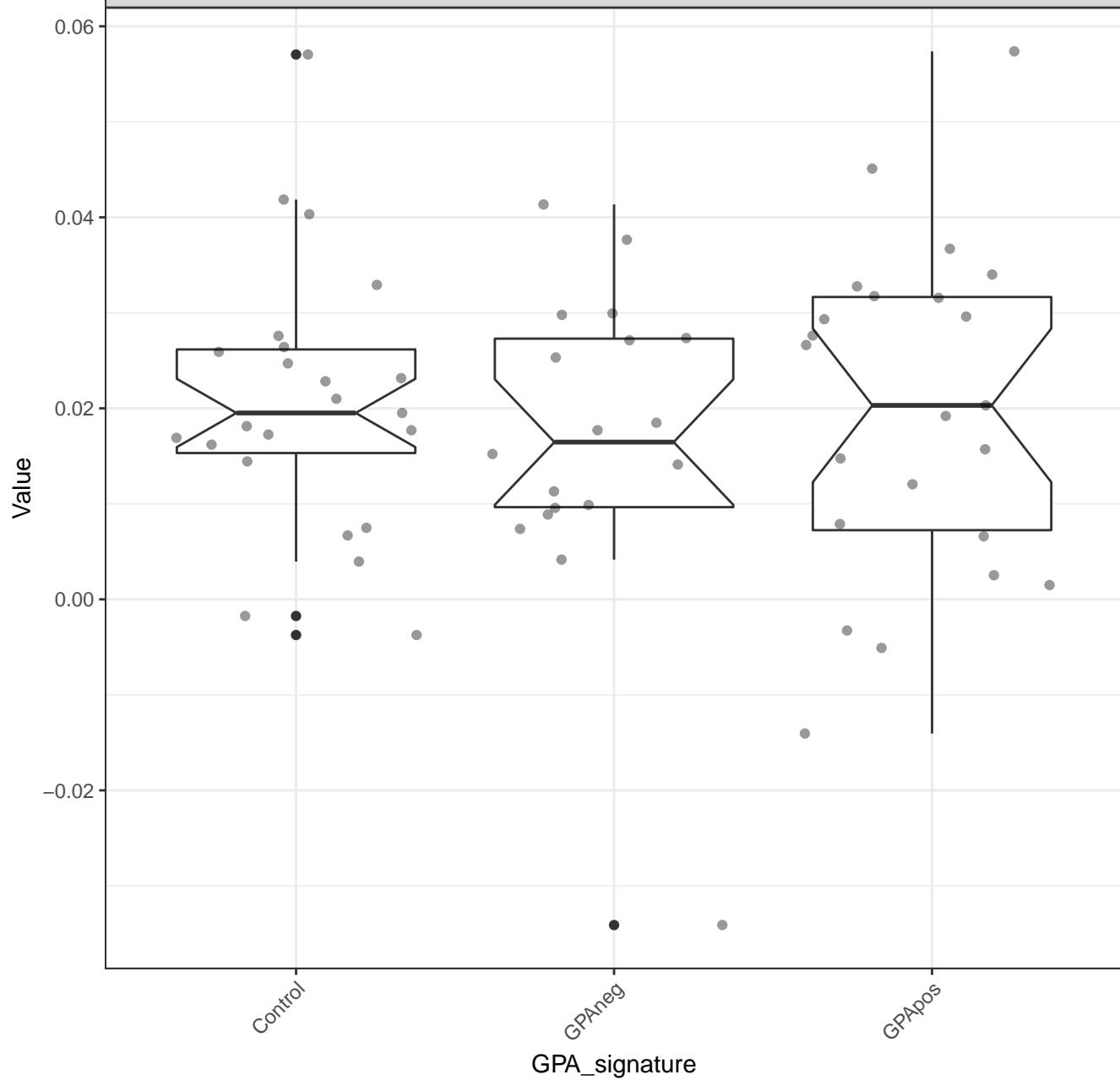
LV 312



## LV 313



## LV 314



LV 315

Value

0.04

0.00

-0.04

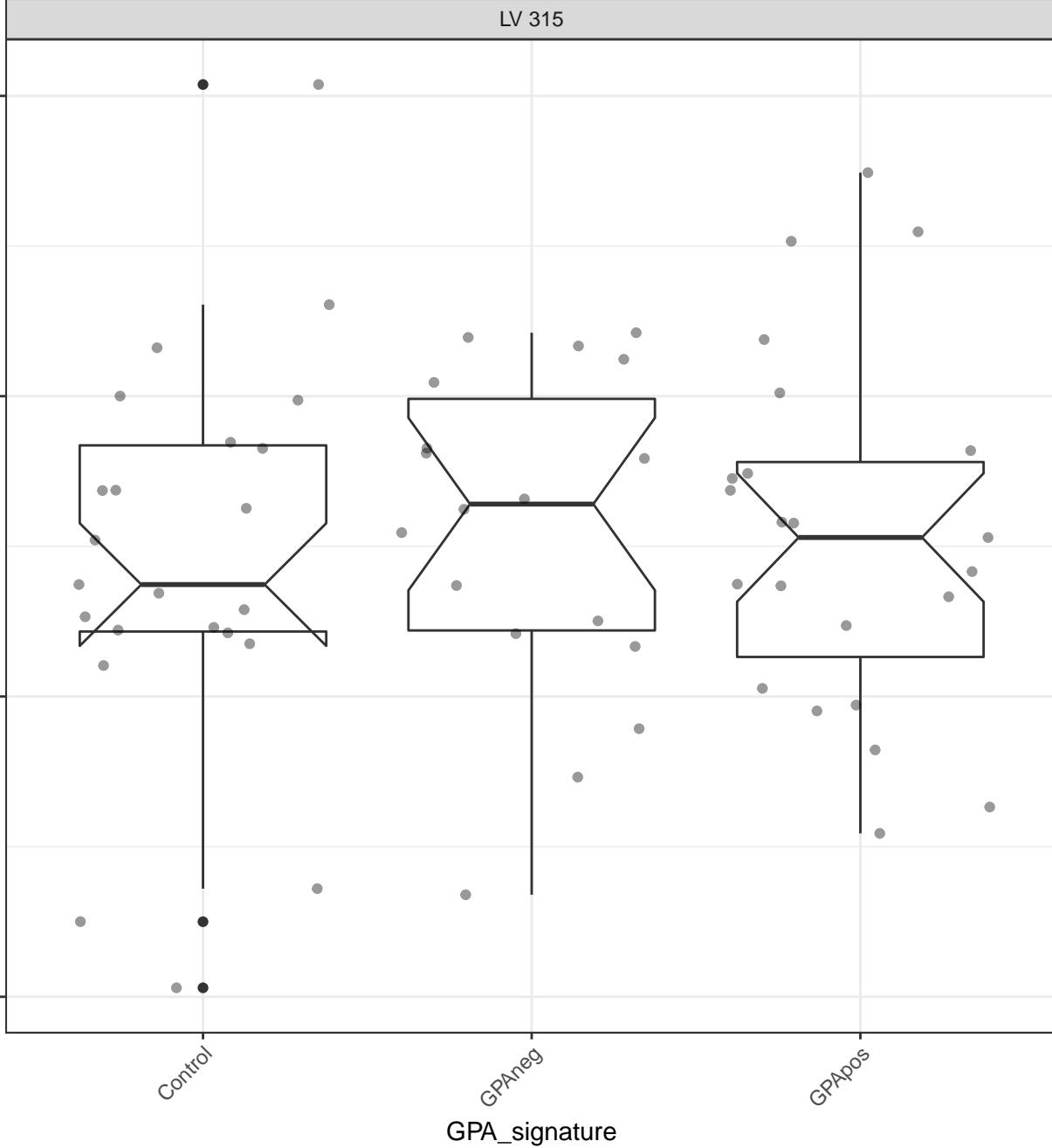
-0.08

Control

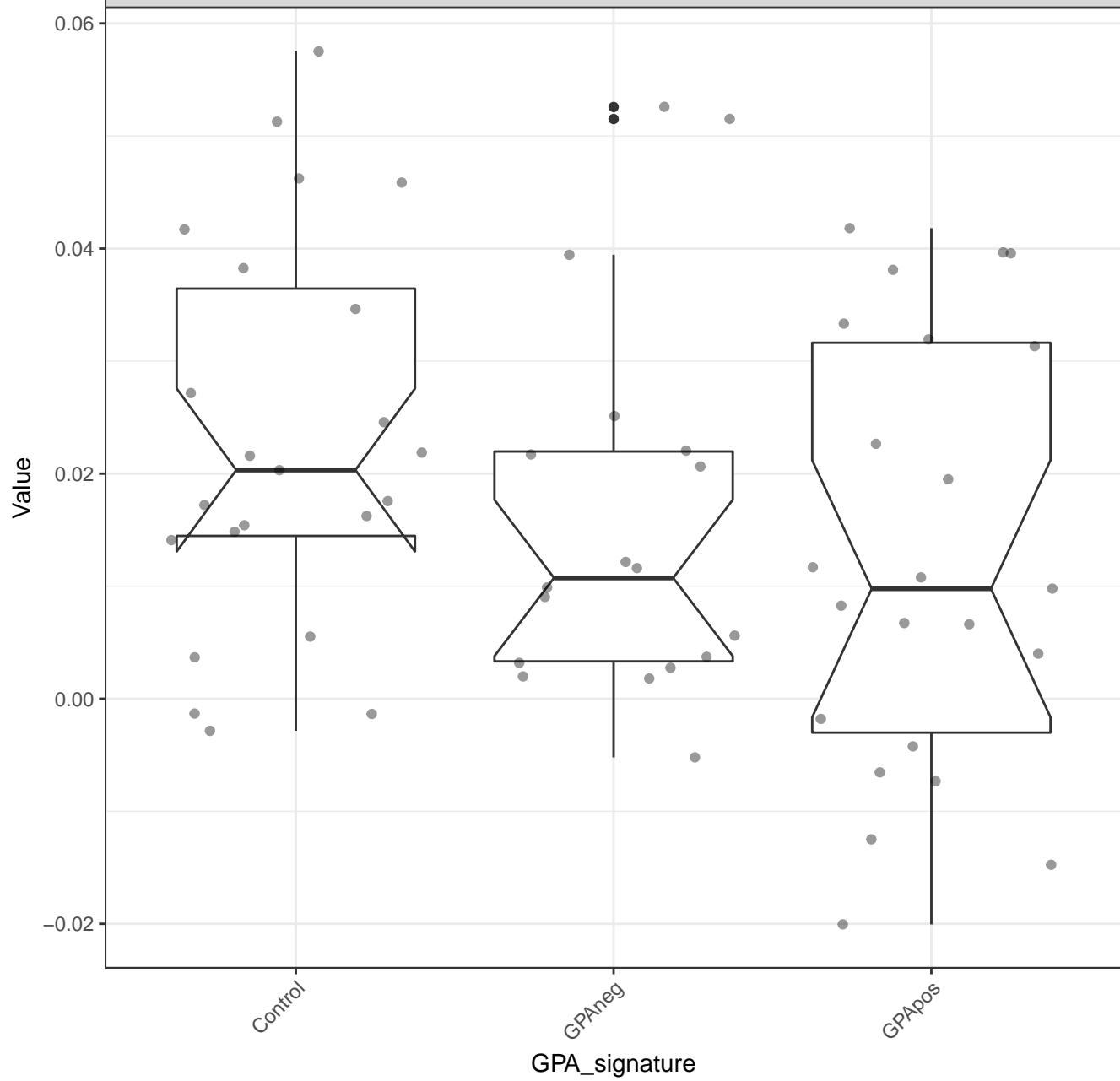
GPAneg

GPAPos

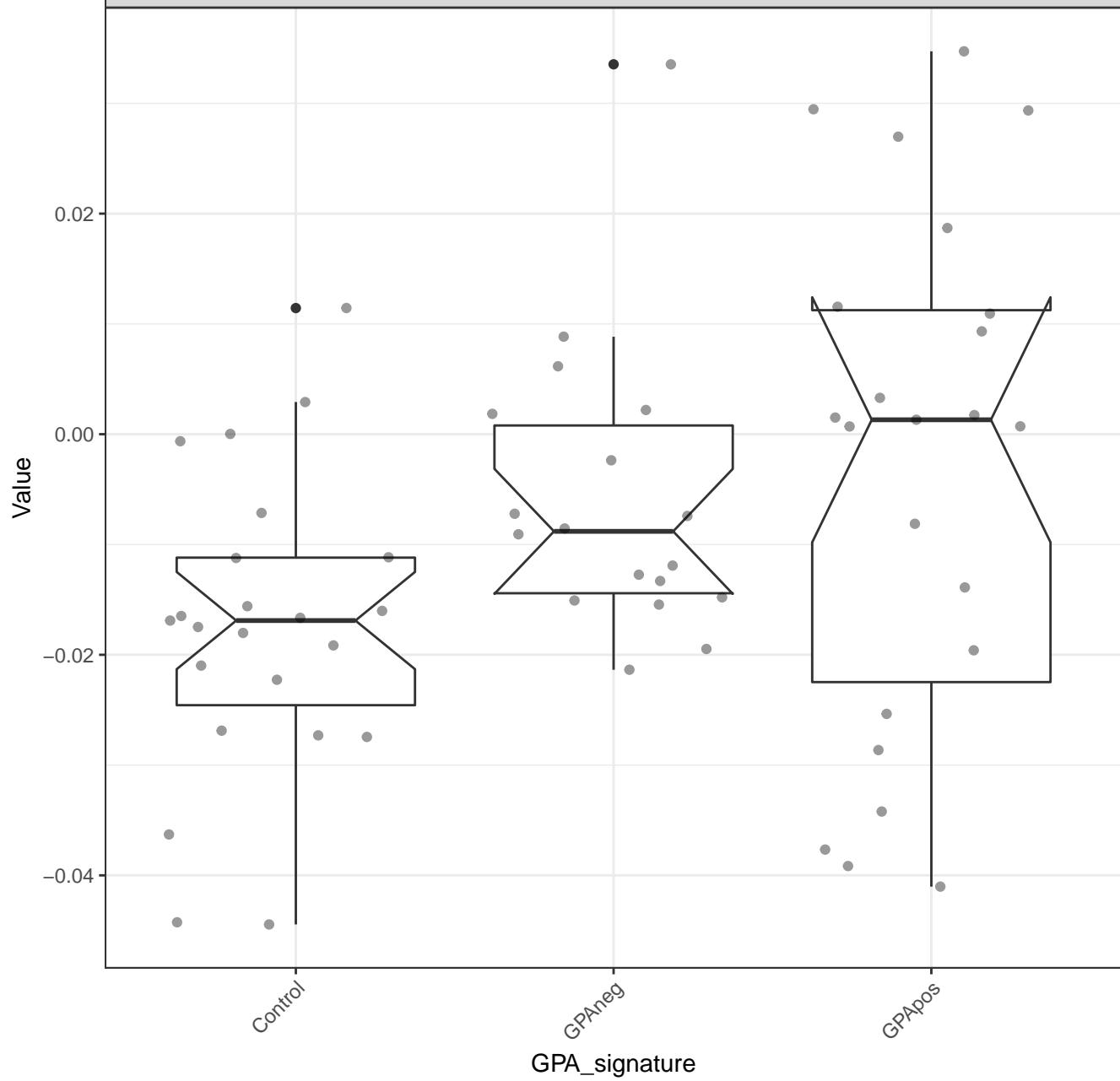
GPA\_signature



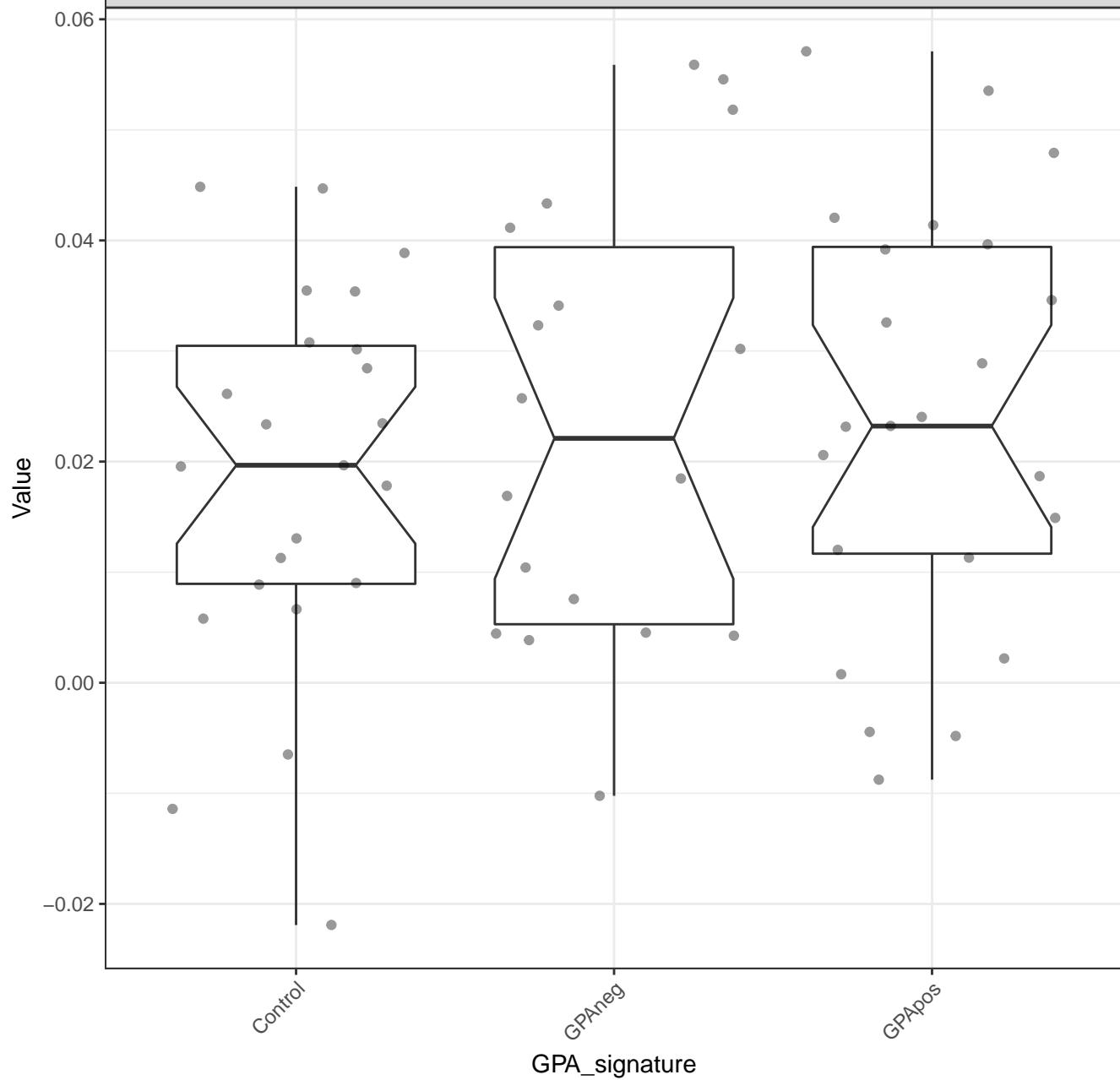
LV 316



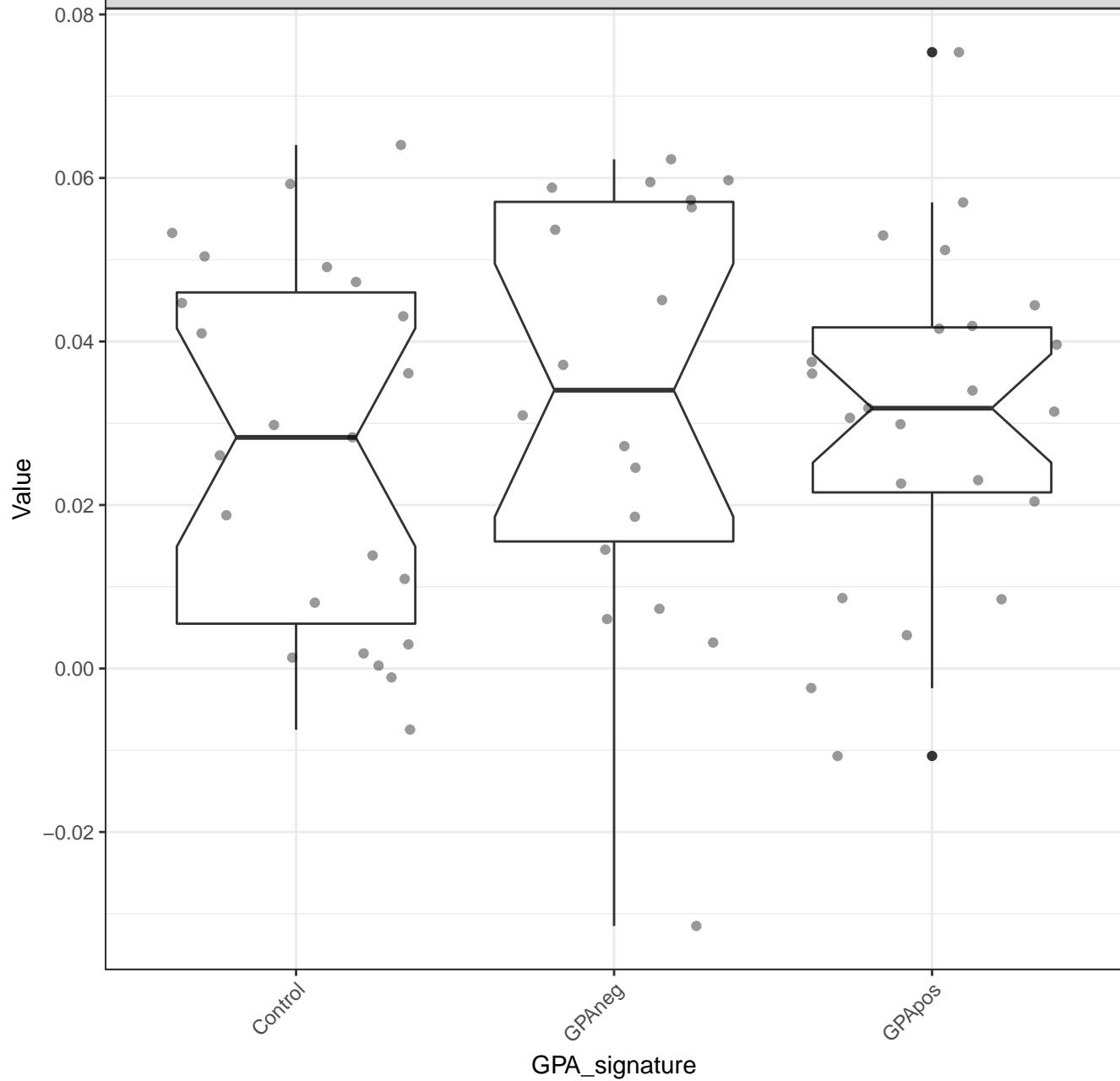
LV 317



LV 318



LV 319



## LV 320

Value

0.025

0.000

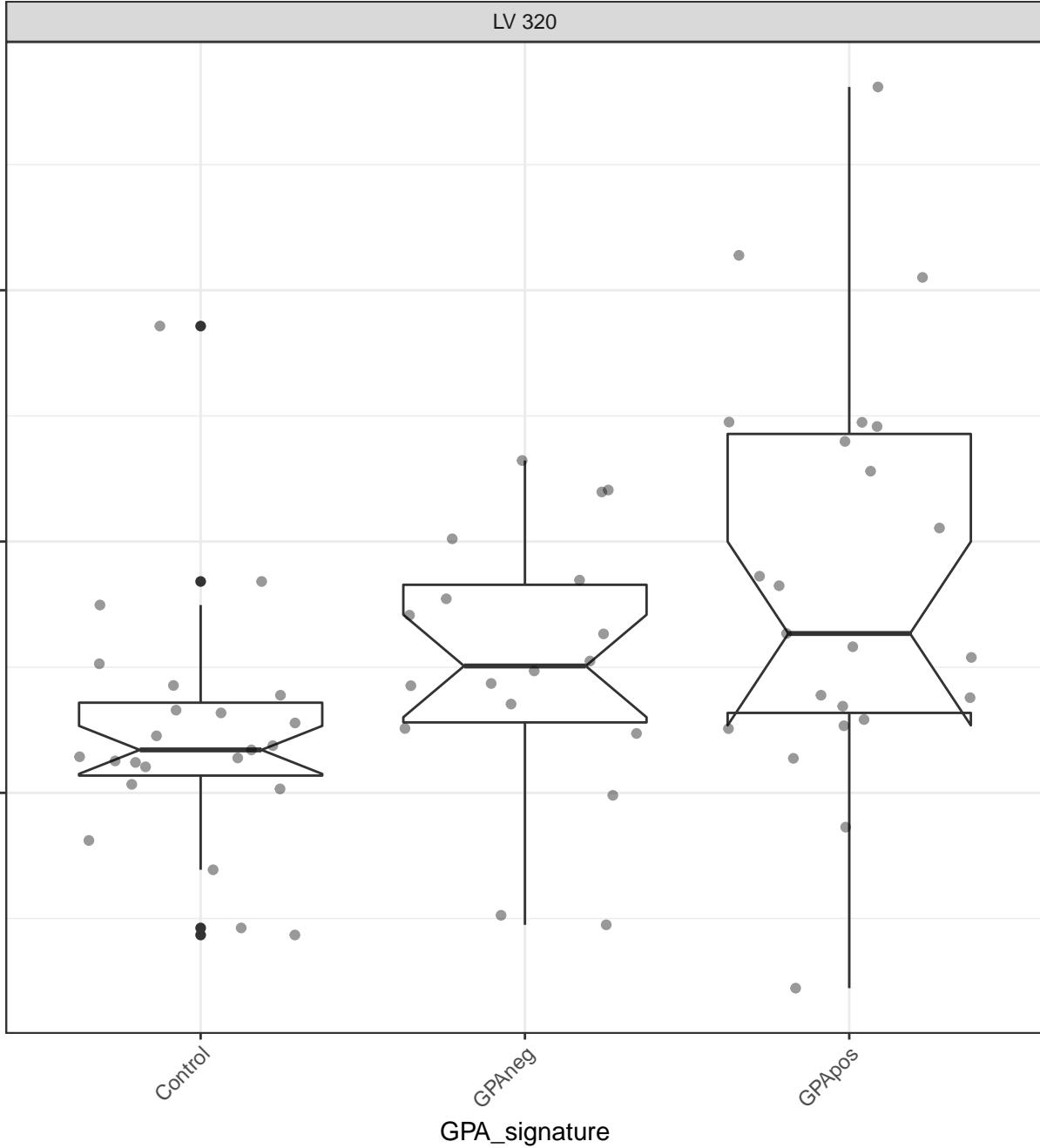
-0.025

Control

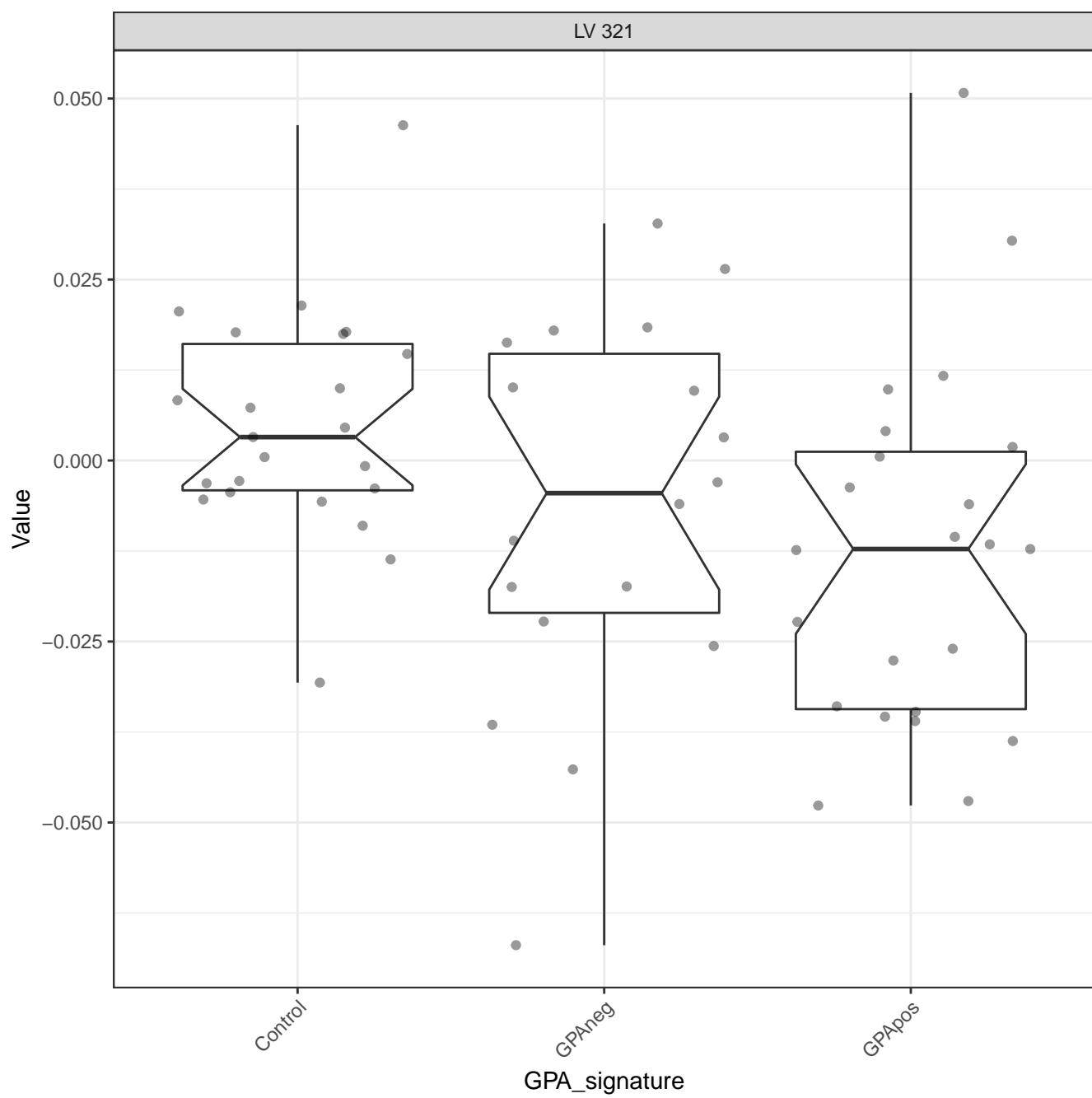
GPAneg

GPAPos

GPA\_signature



## LV 321



LV 322

Value

0.04

0.02

0.00

-0.02

-0.04

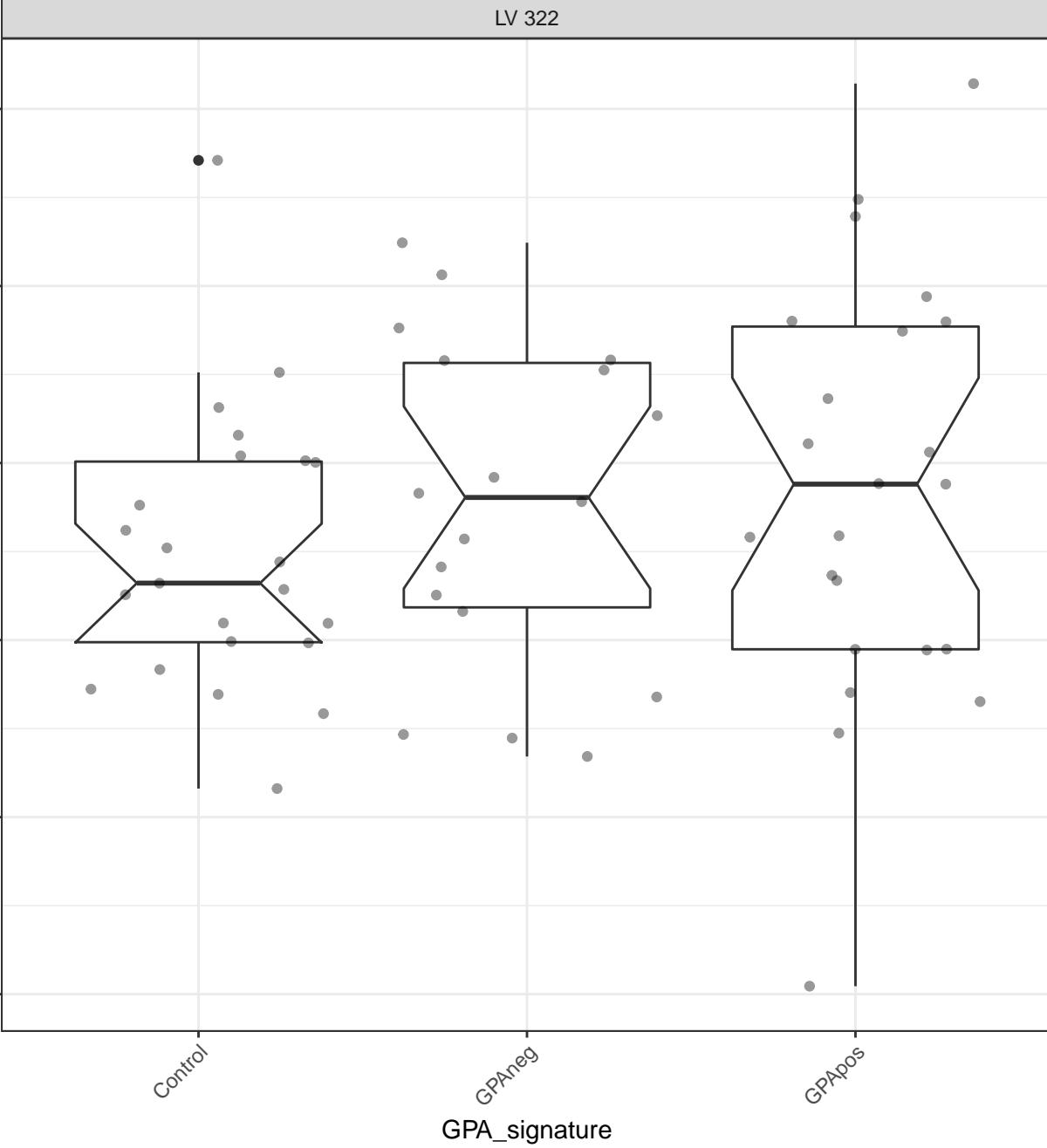
-0.06

Control

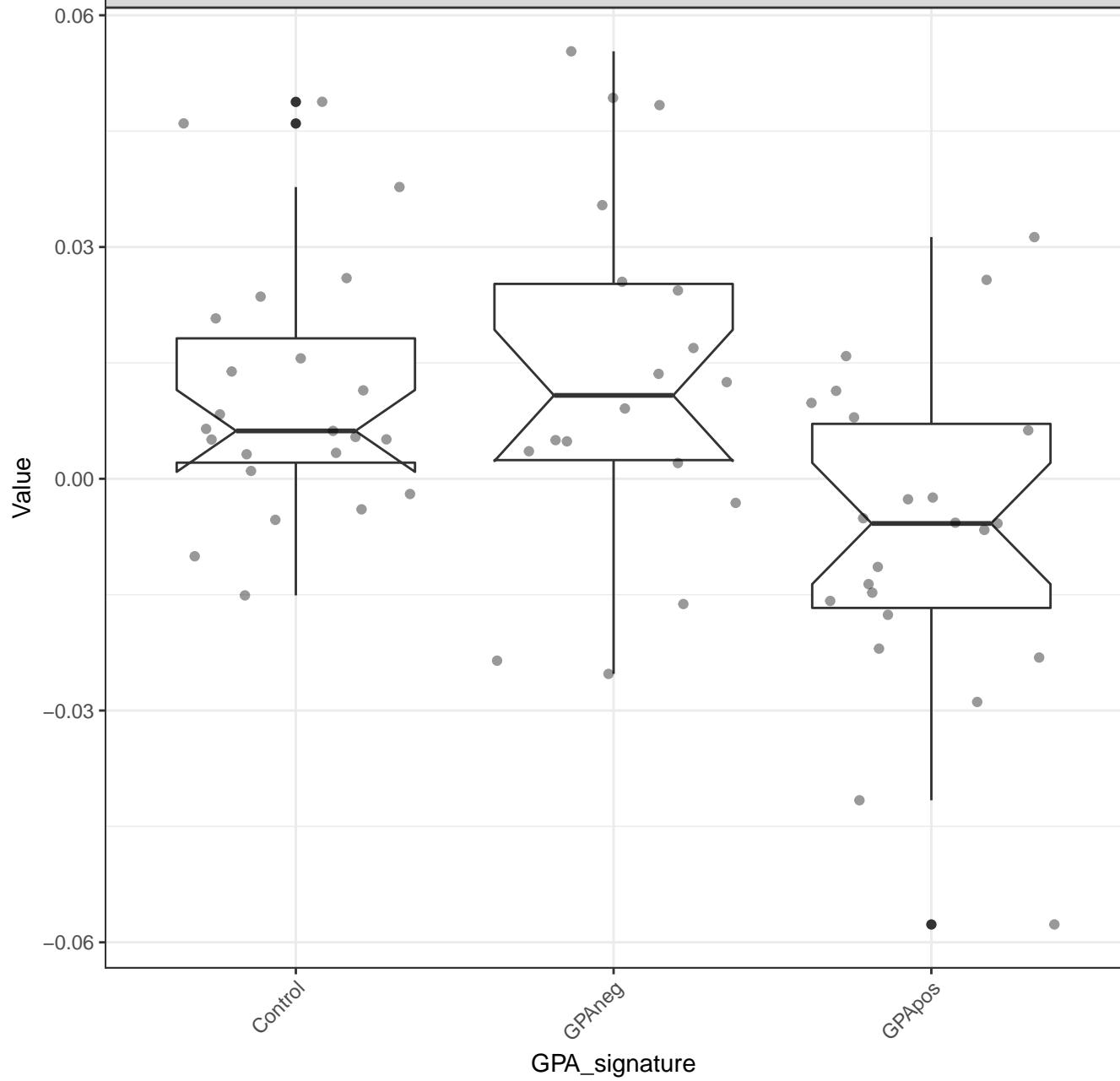
GPAneg

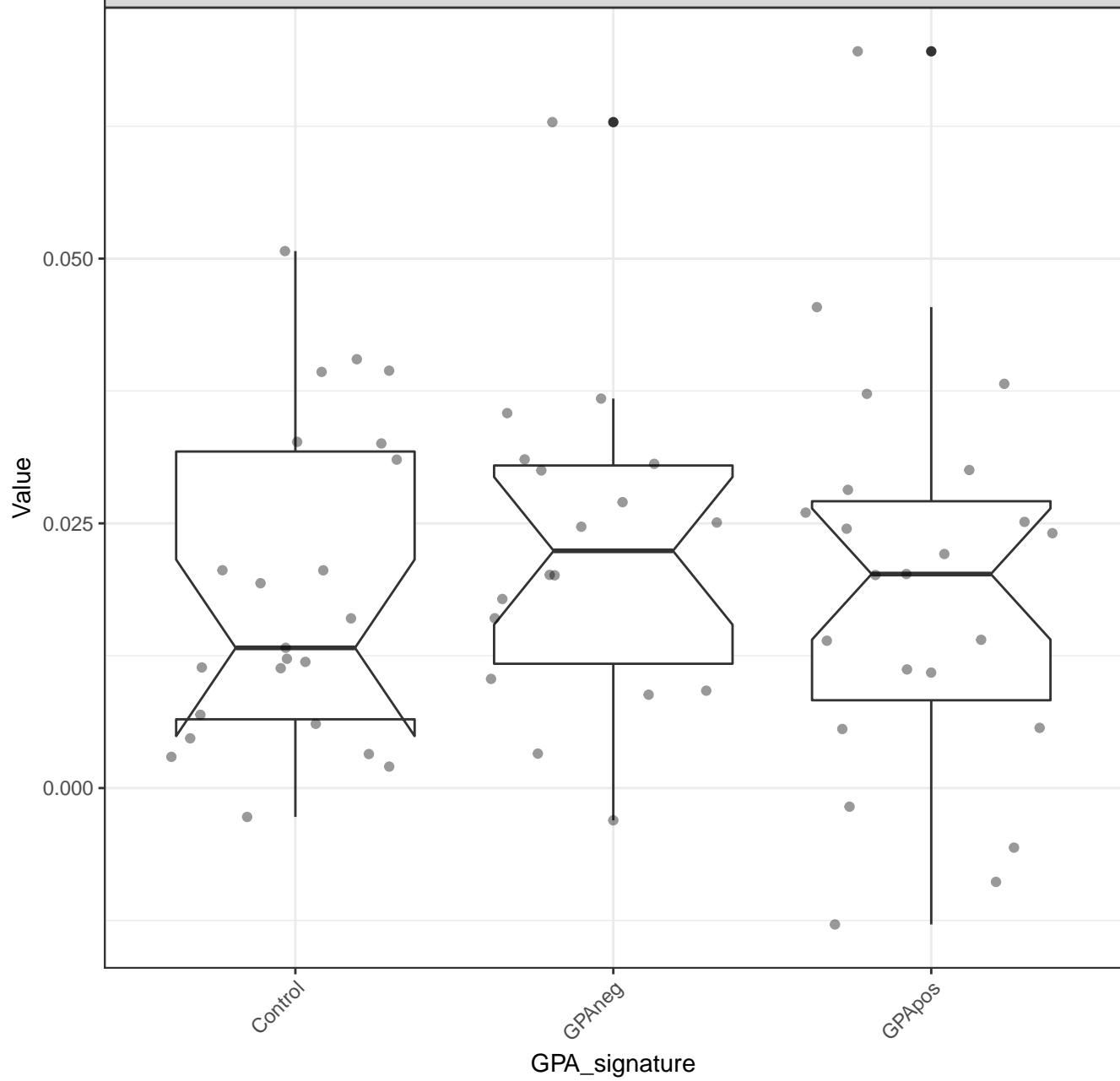
GPApos

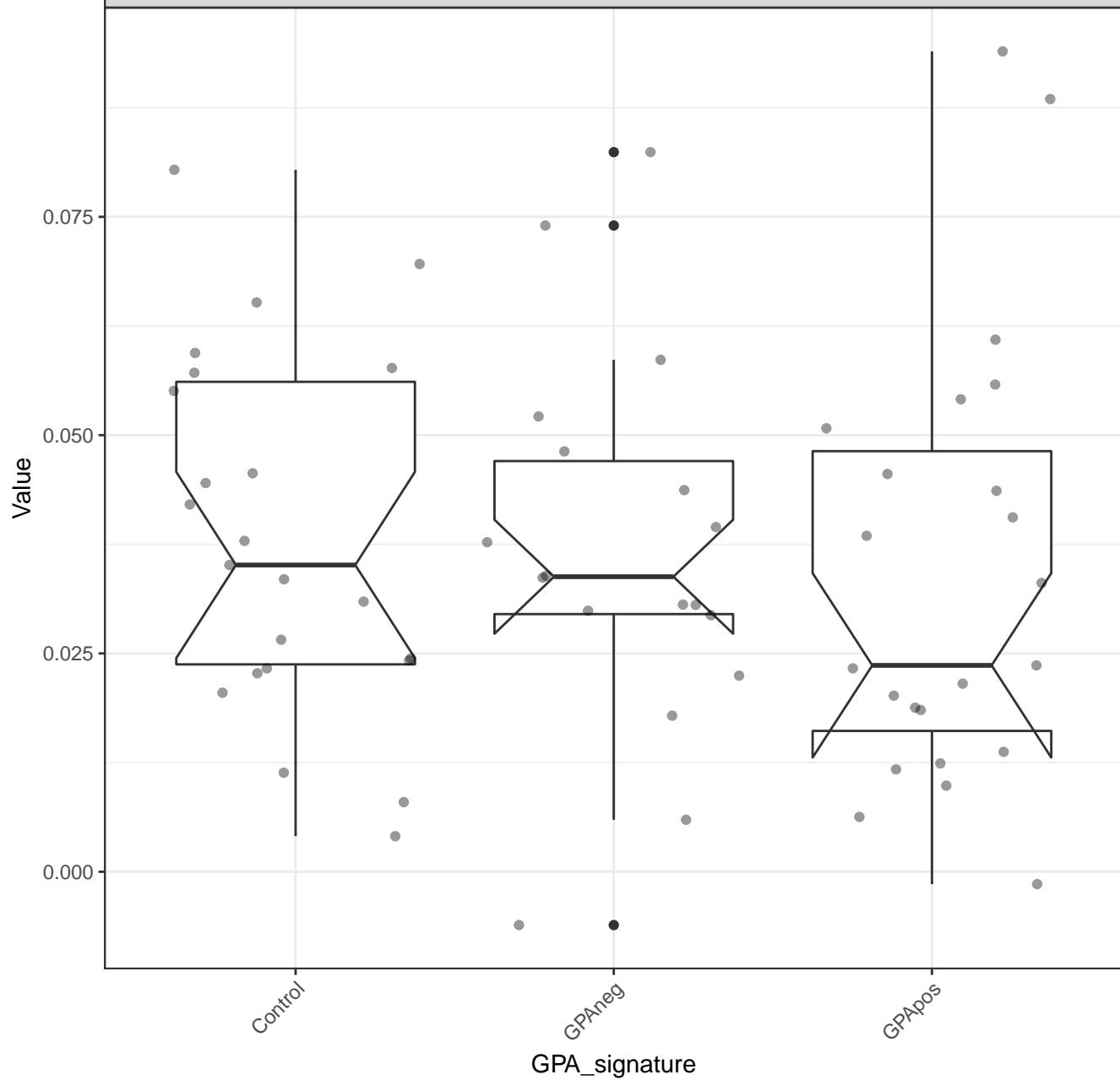
GPA\_signature



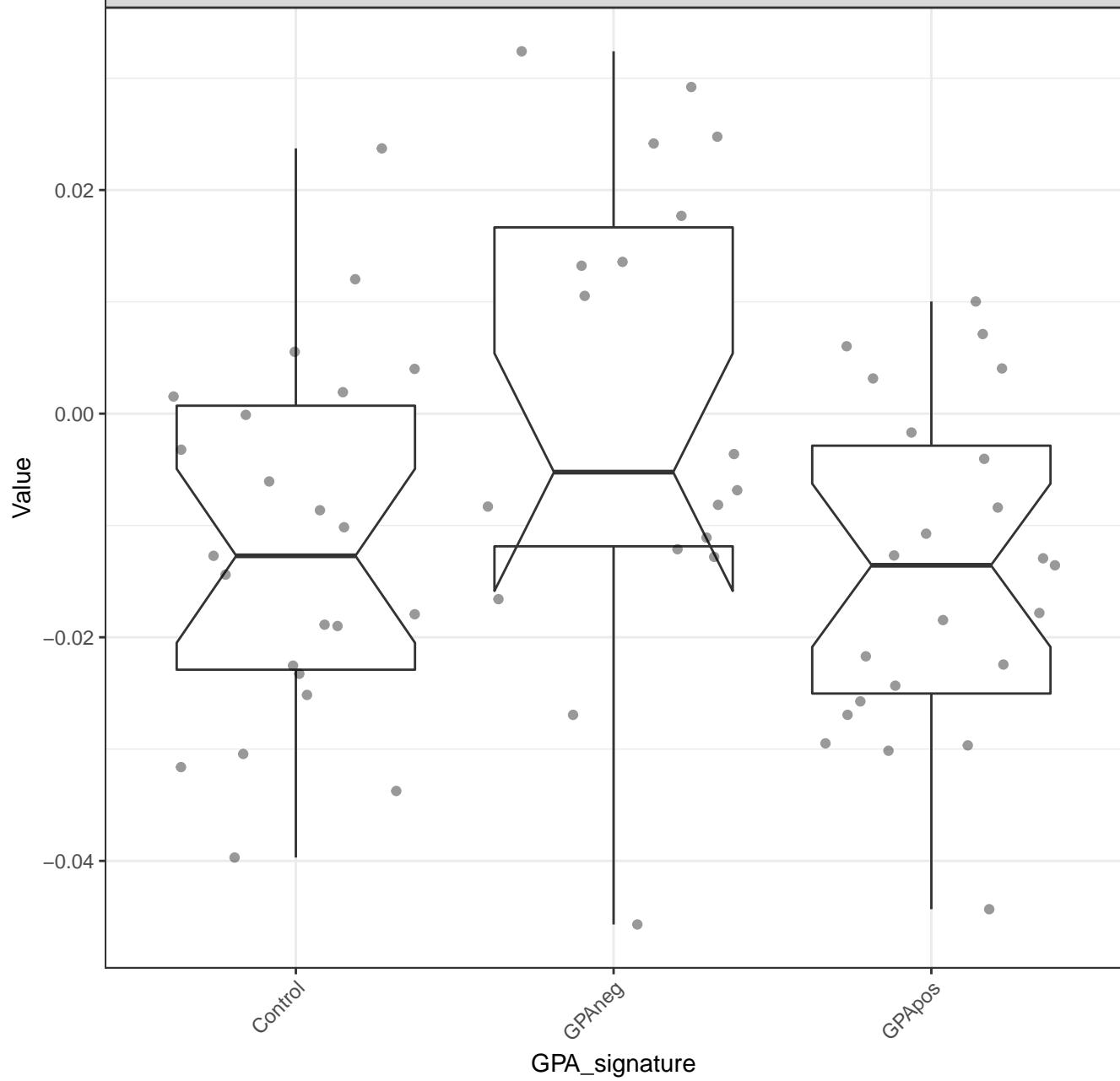
LV 323



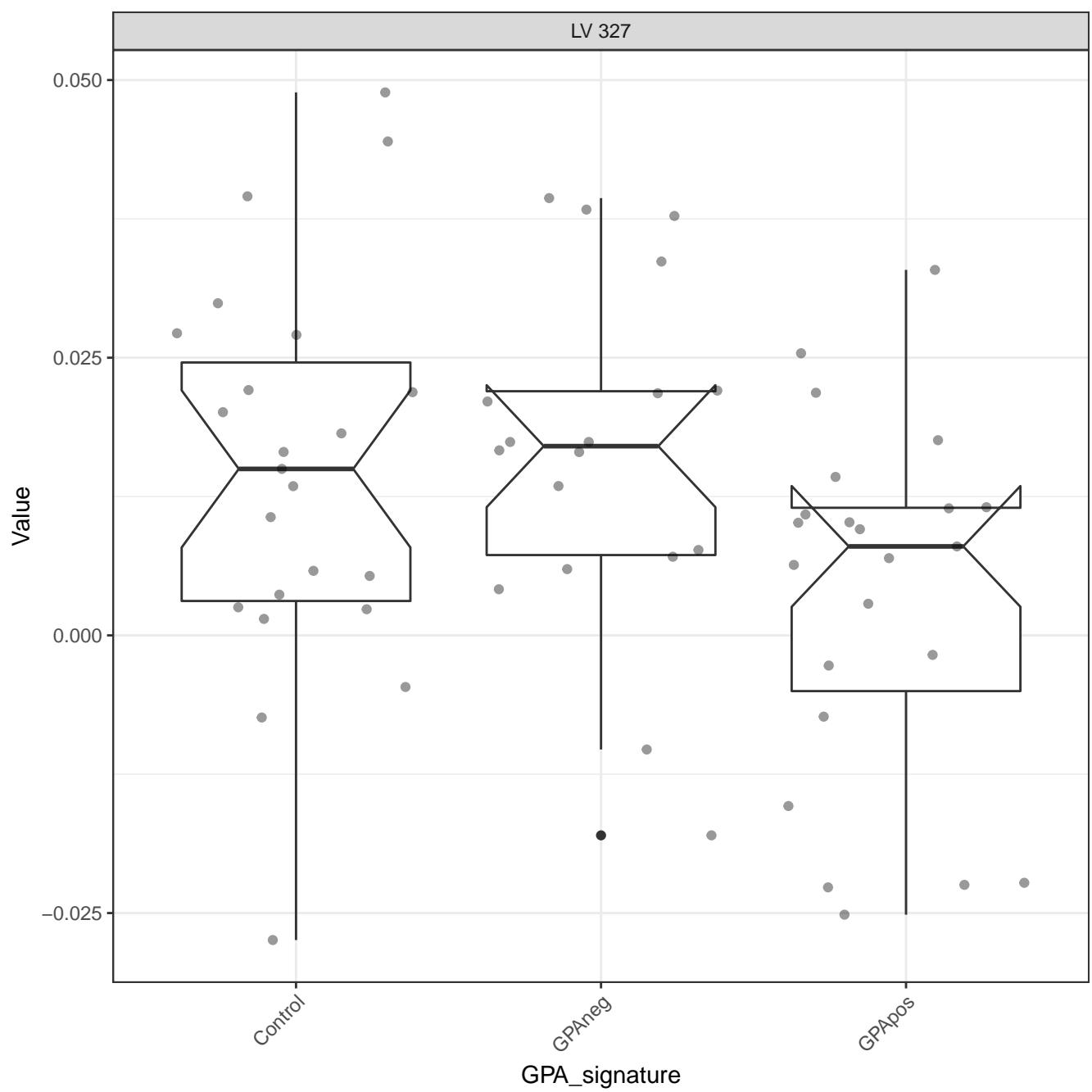




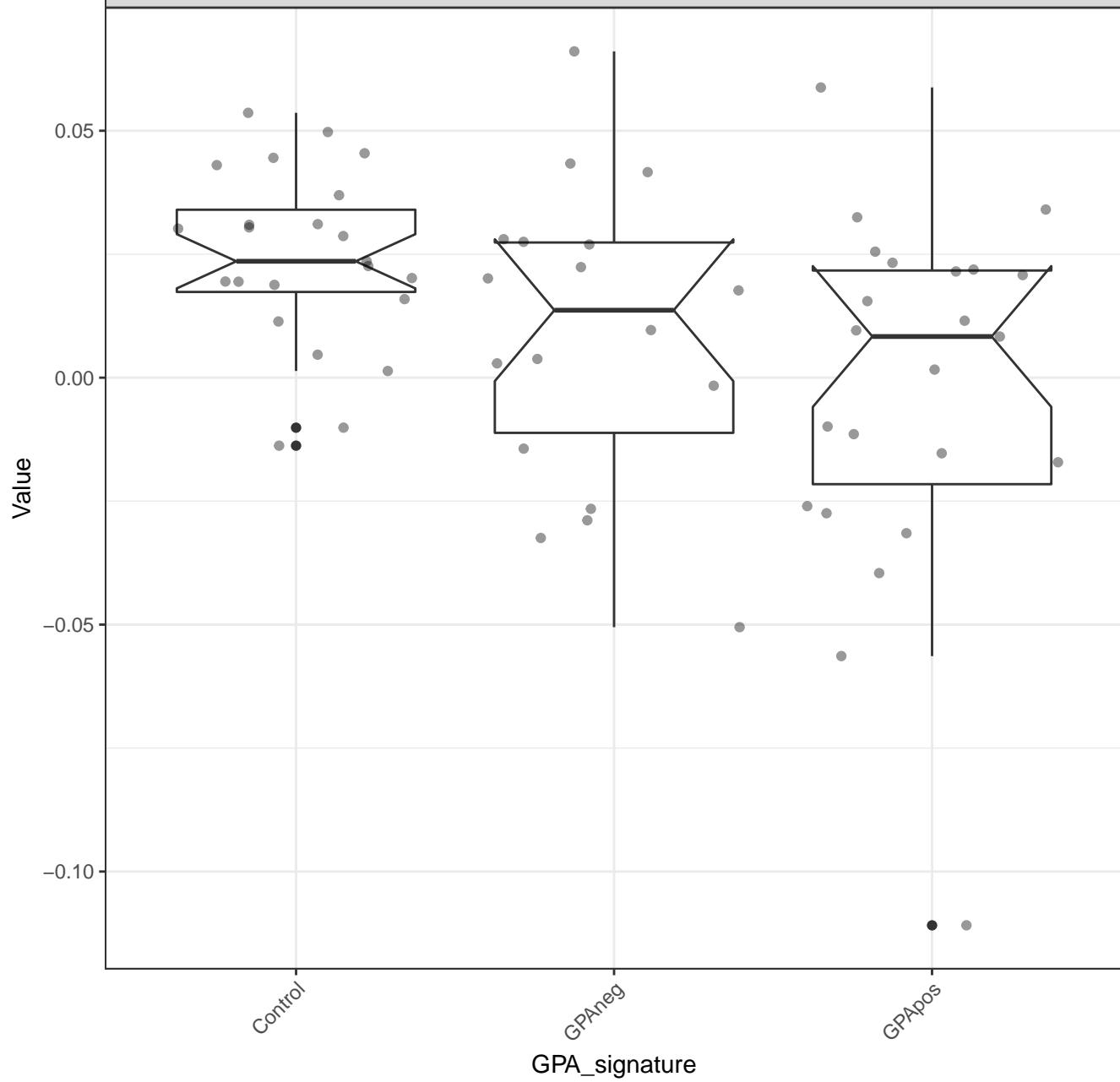
LV 326

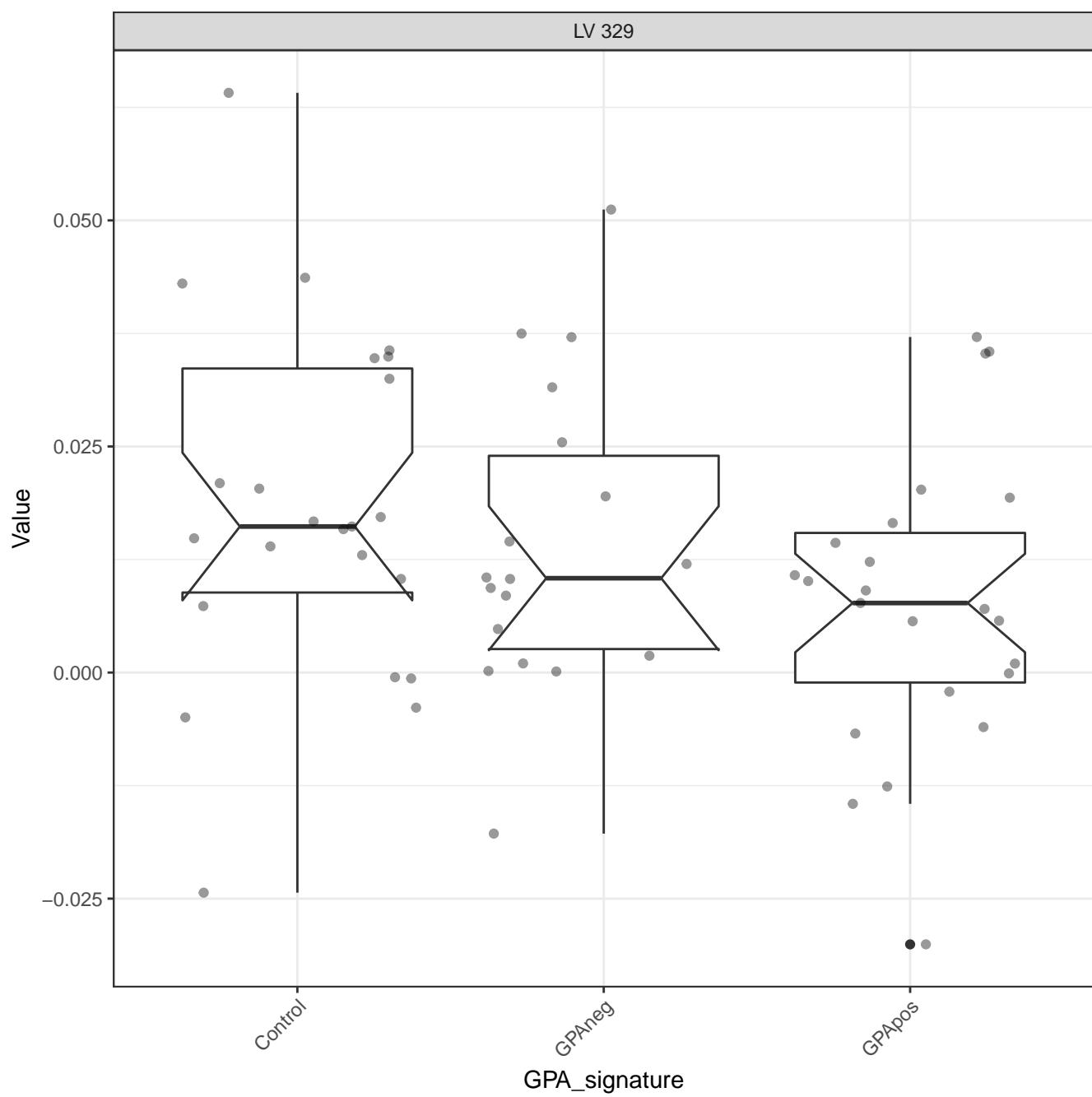


LV 327



LV 328





LV 330

Value

0.04

0.00

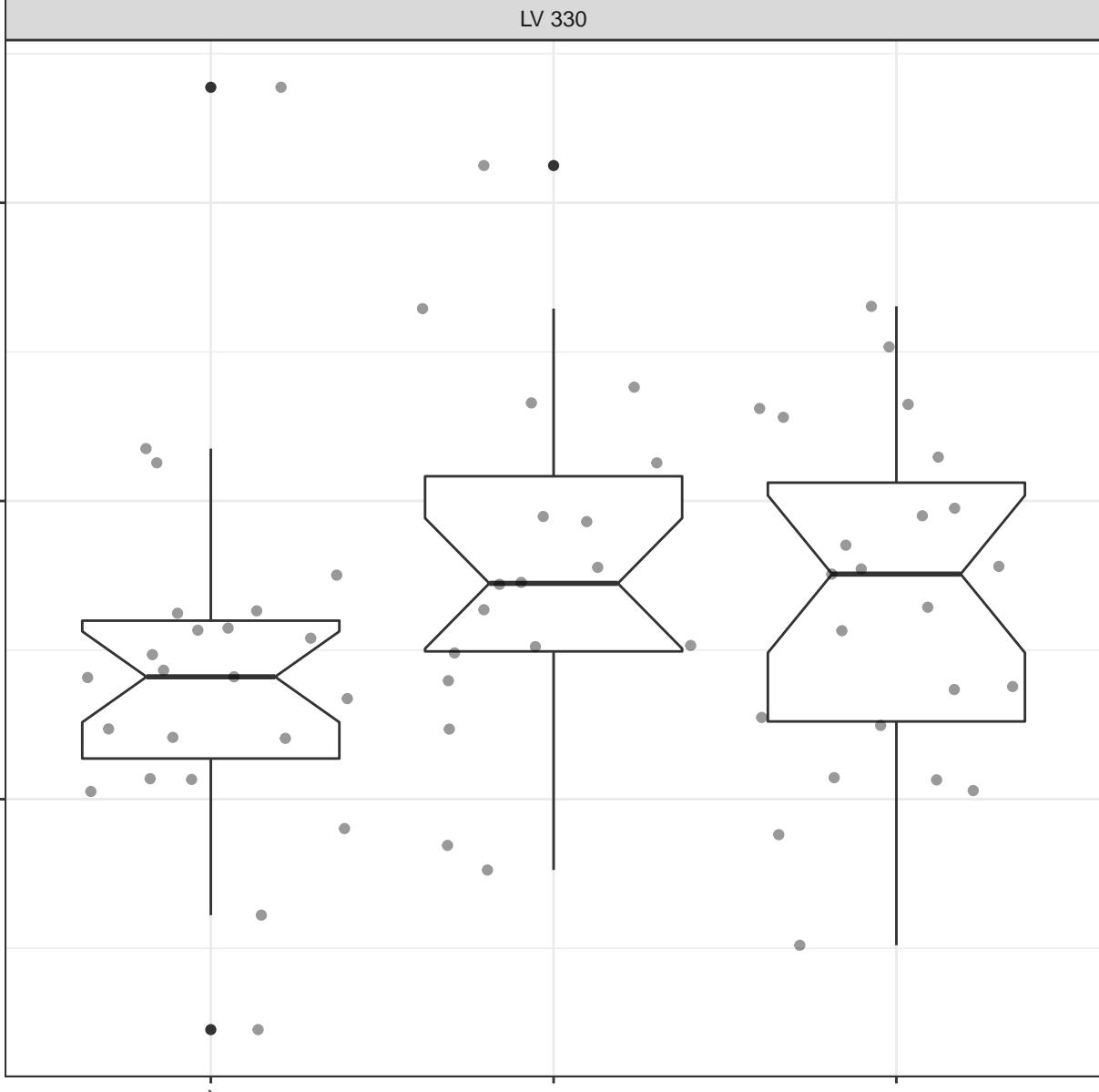
-0.04

Control

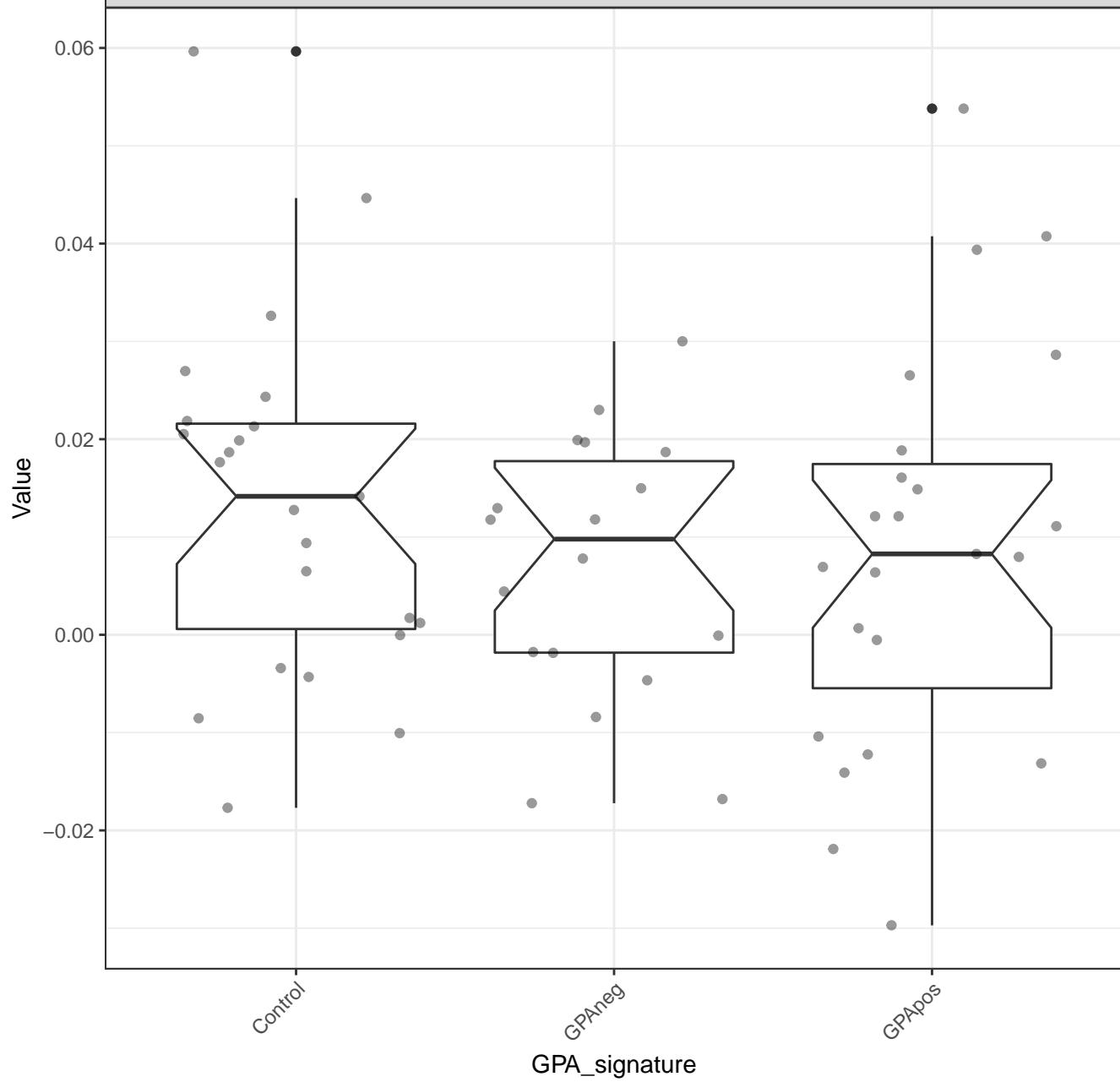
GPA\_signature

GPAneg

GPApos



LV 331



LV 332

Value

Control

GPAneg

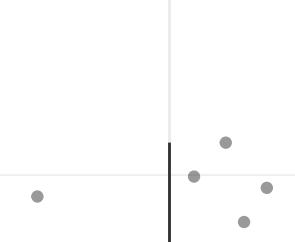
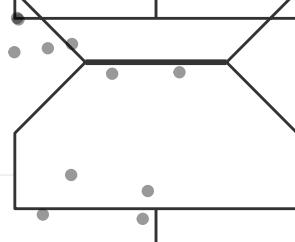
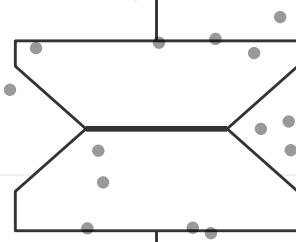
GPApos

GPA\_signature

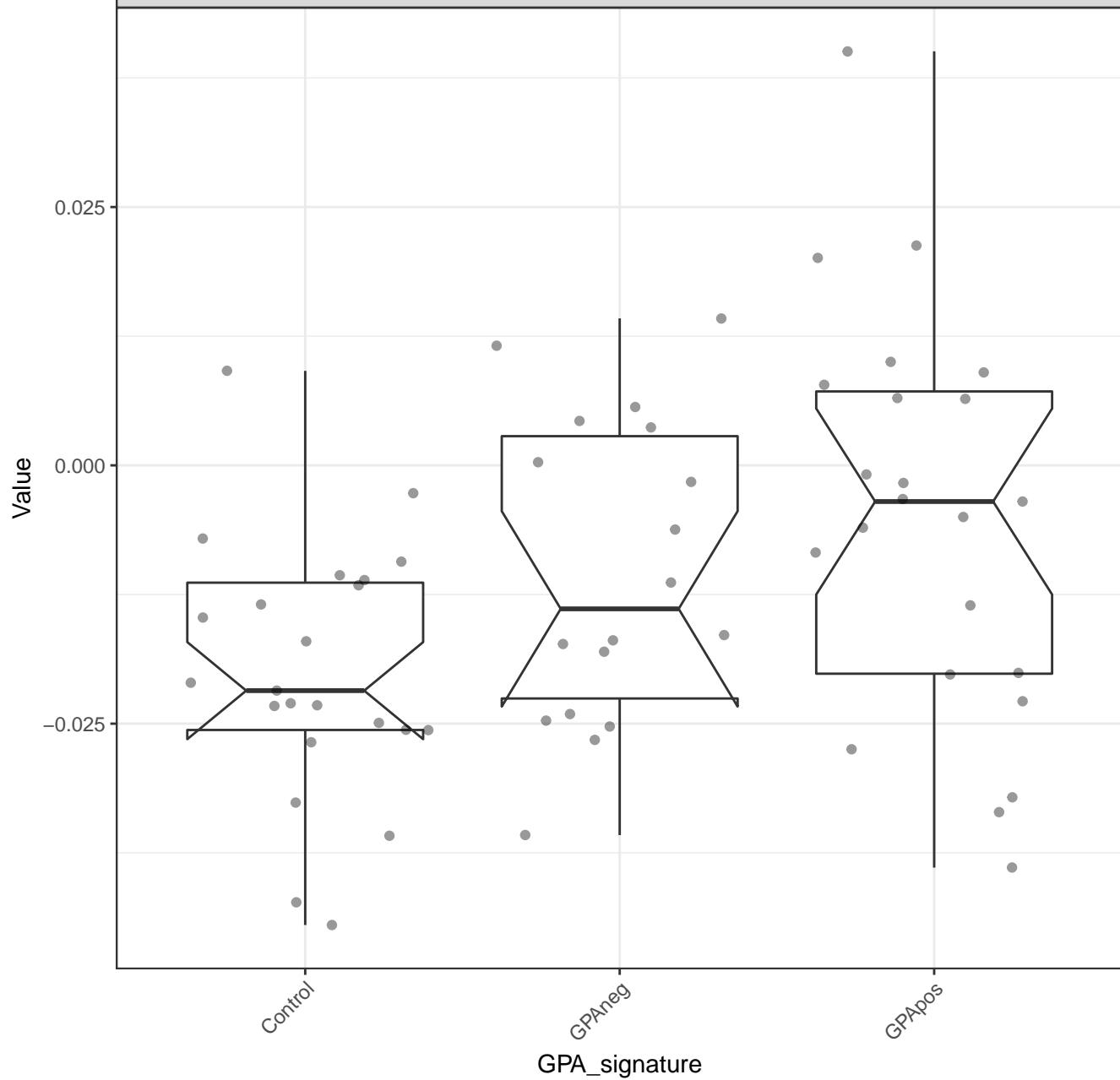
0.05

0.00

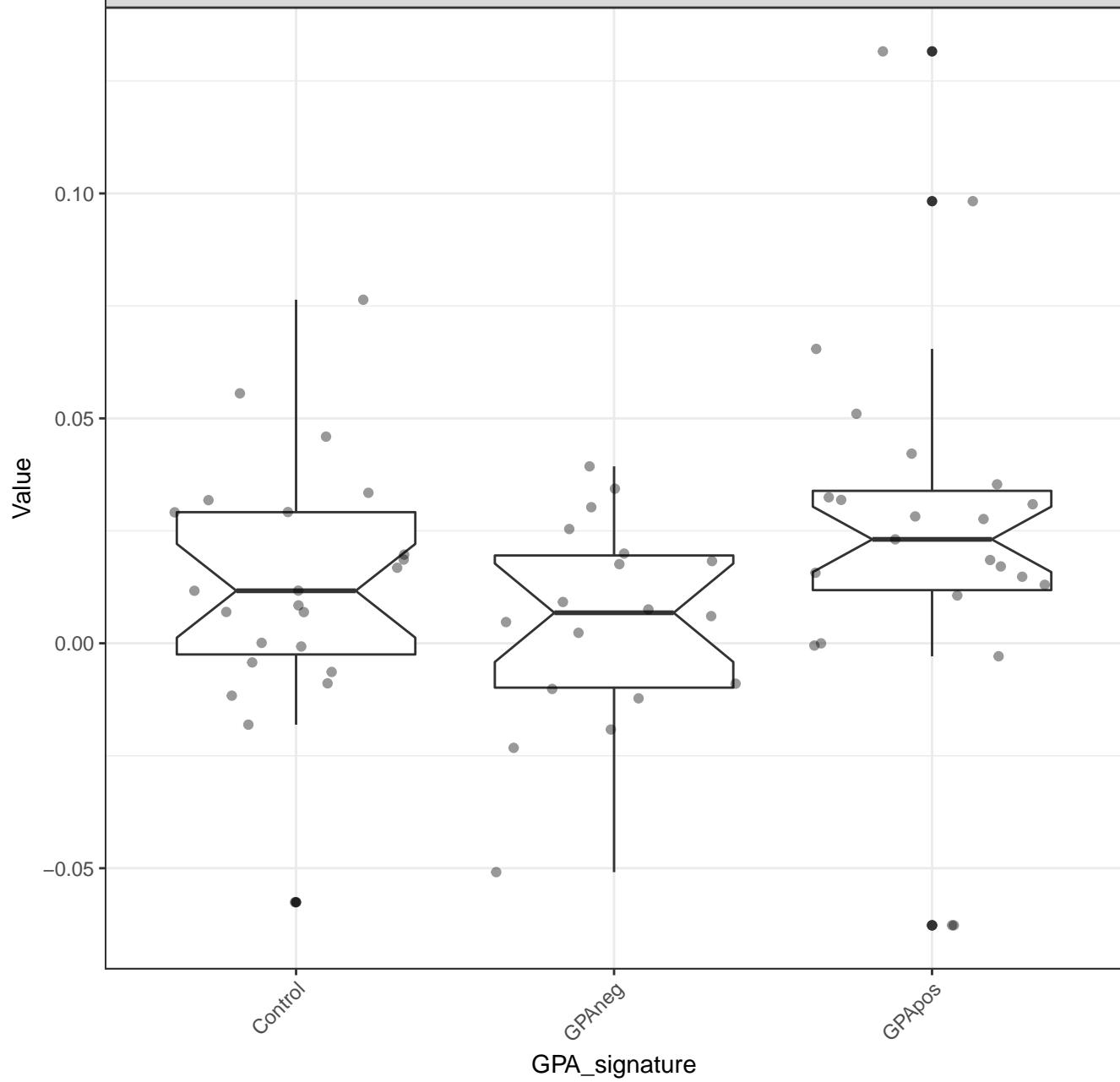
-0.05



## LV 333



LV 334



LV 335

Value

0.10

0.05

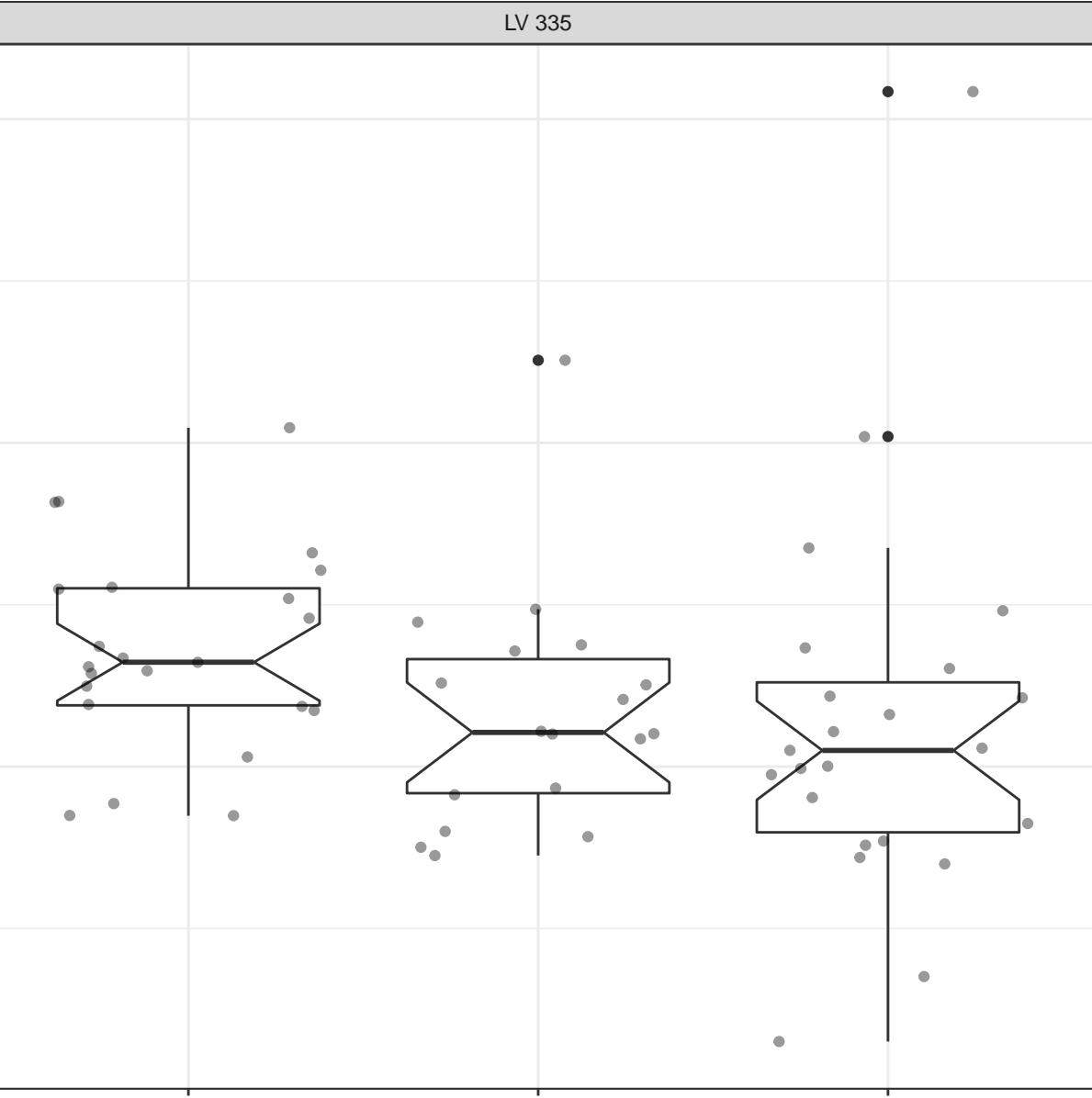
0.00

Control

GPA\_signature

GPAneg

GPAPos



LV 336

Value

0.04

0.02

0.00

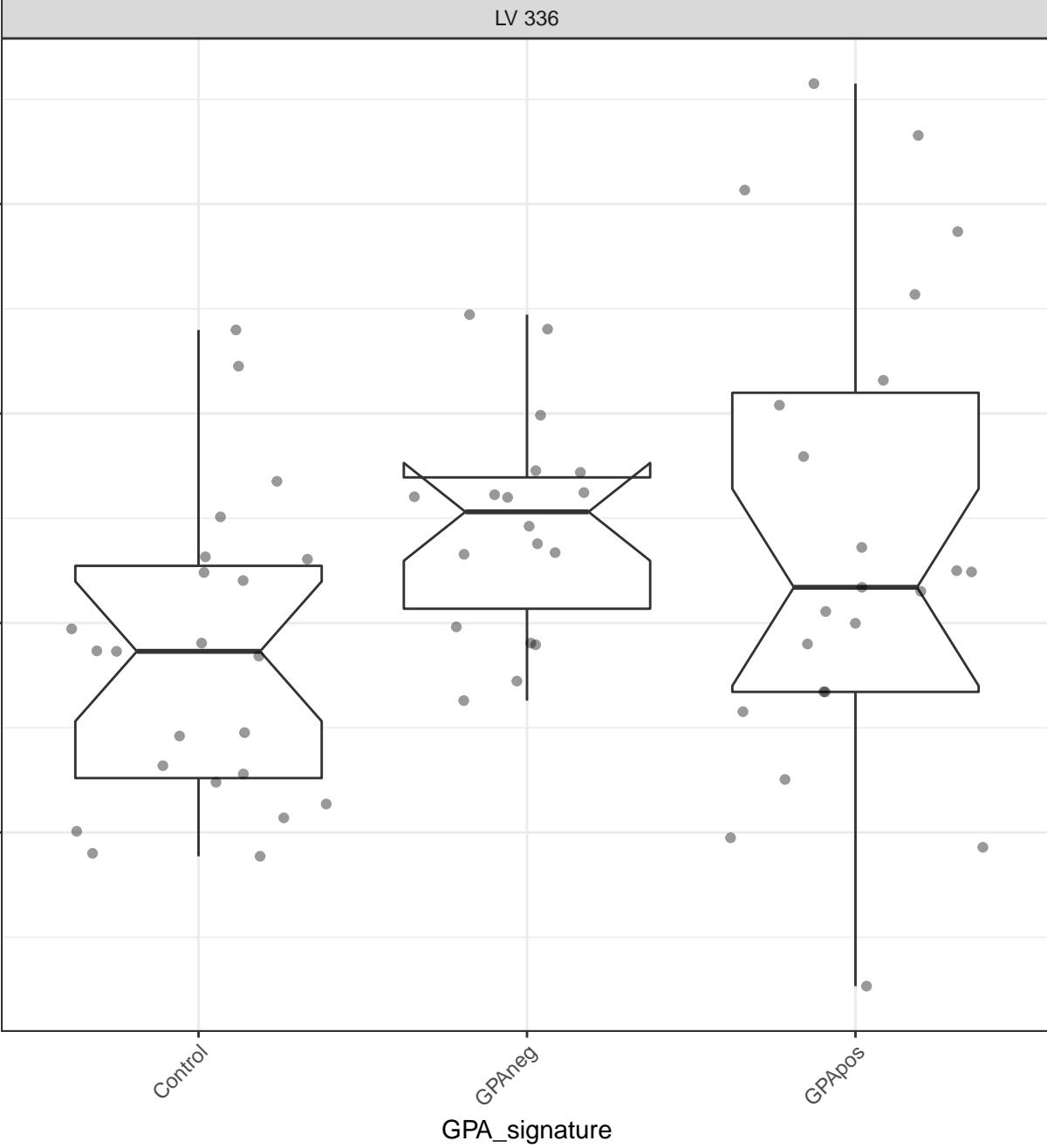
-0.02

Control

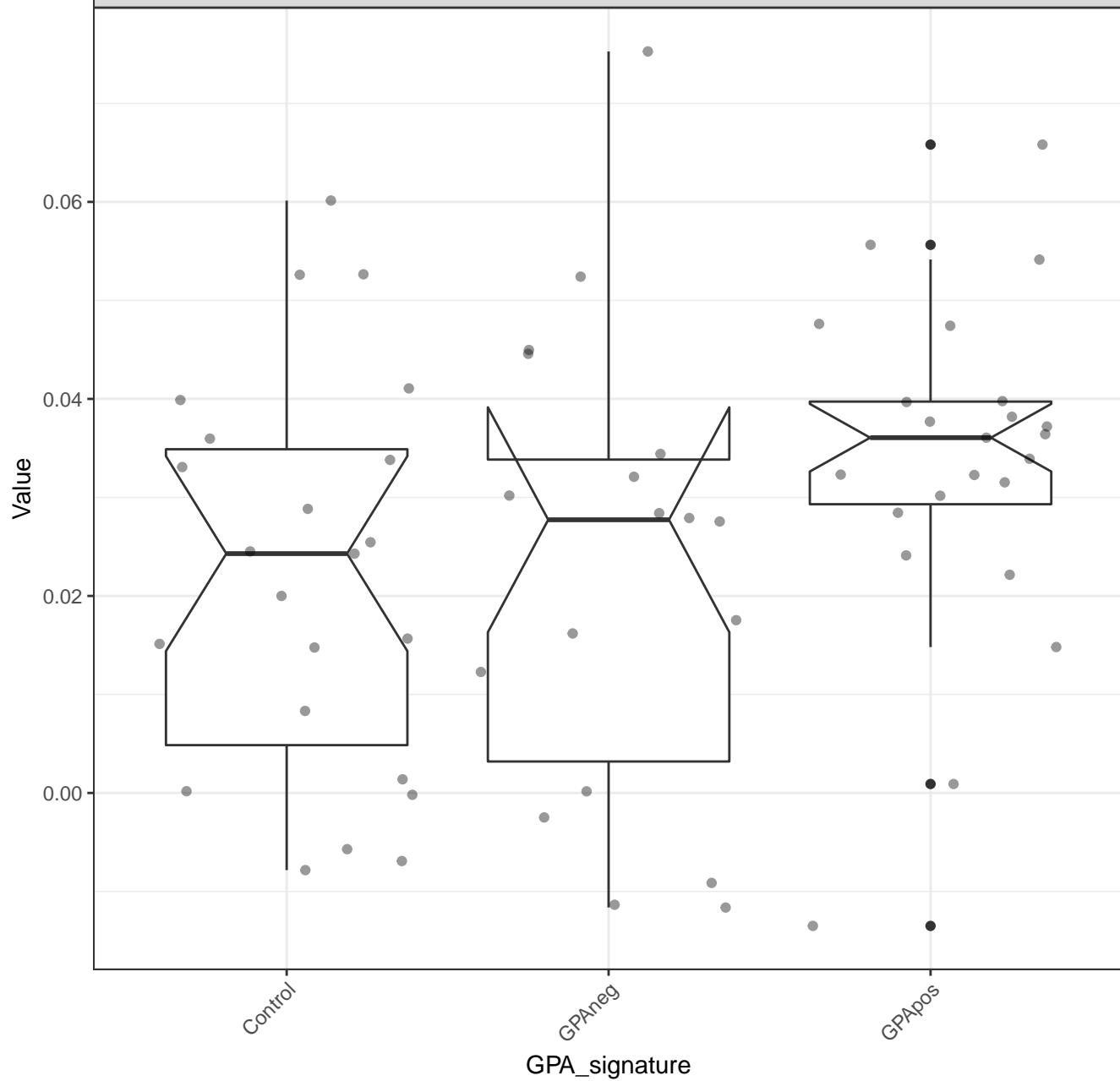
GPAneg

GPAPos

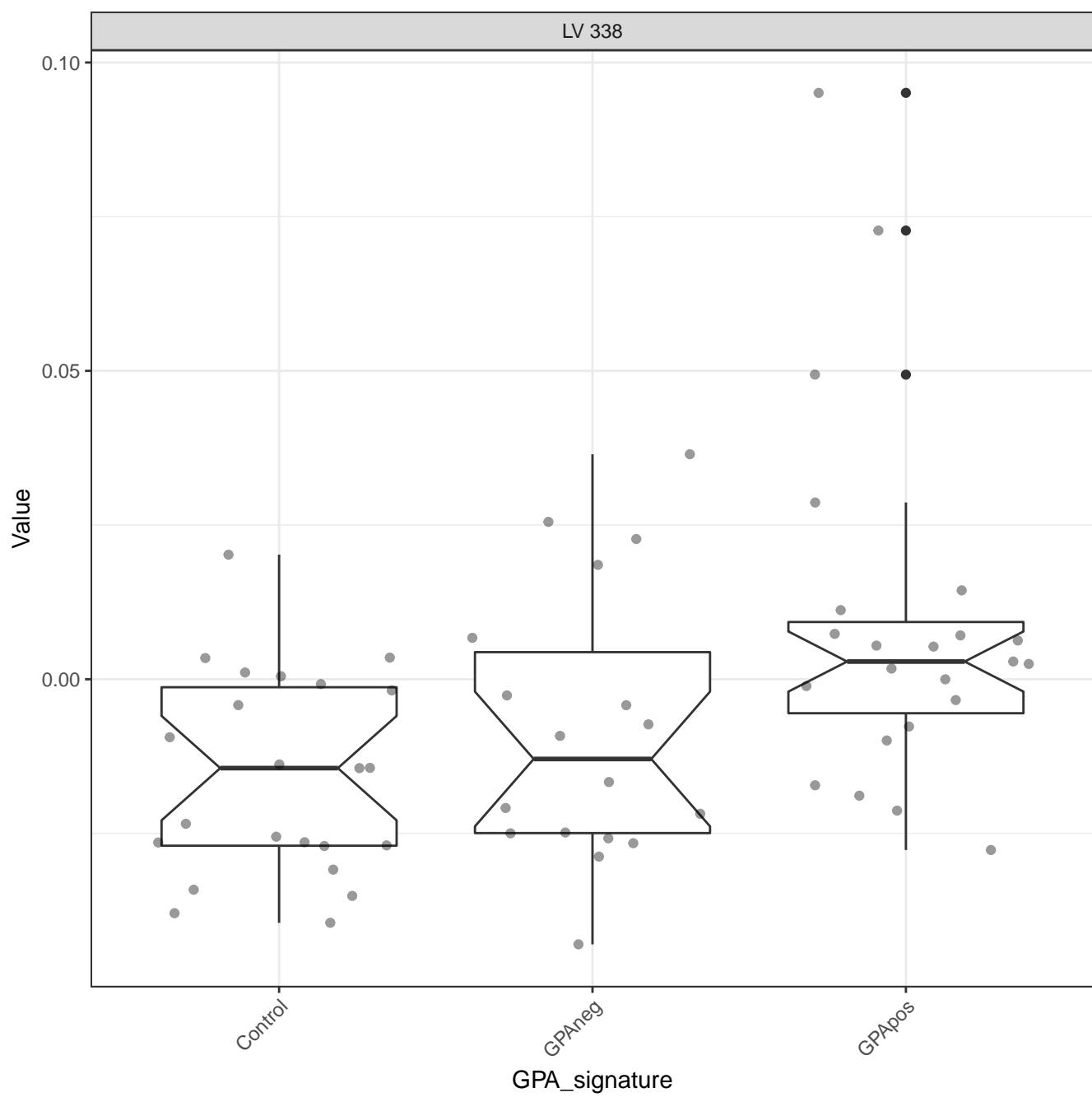
GPA\_signature

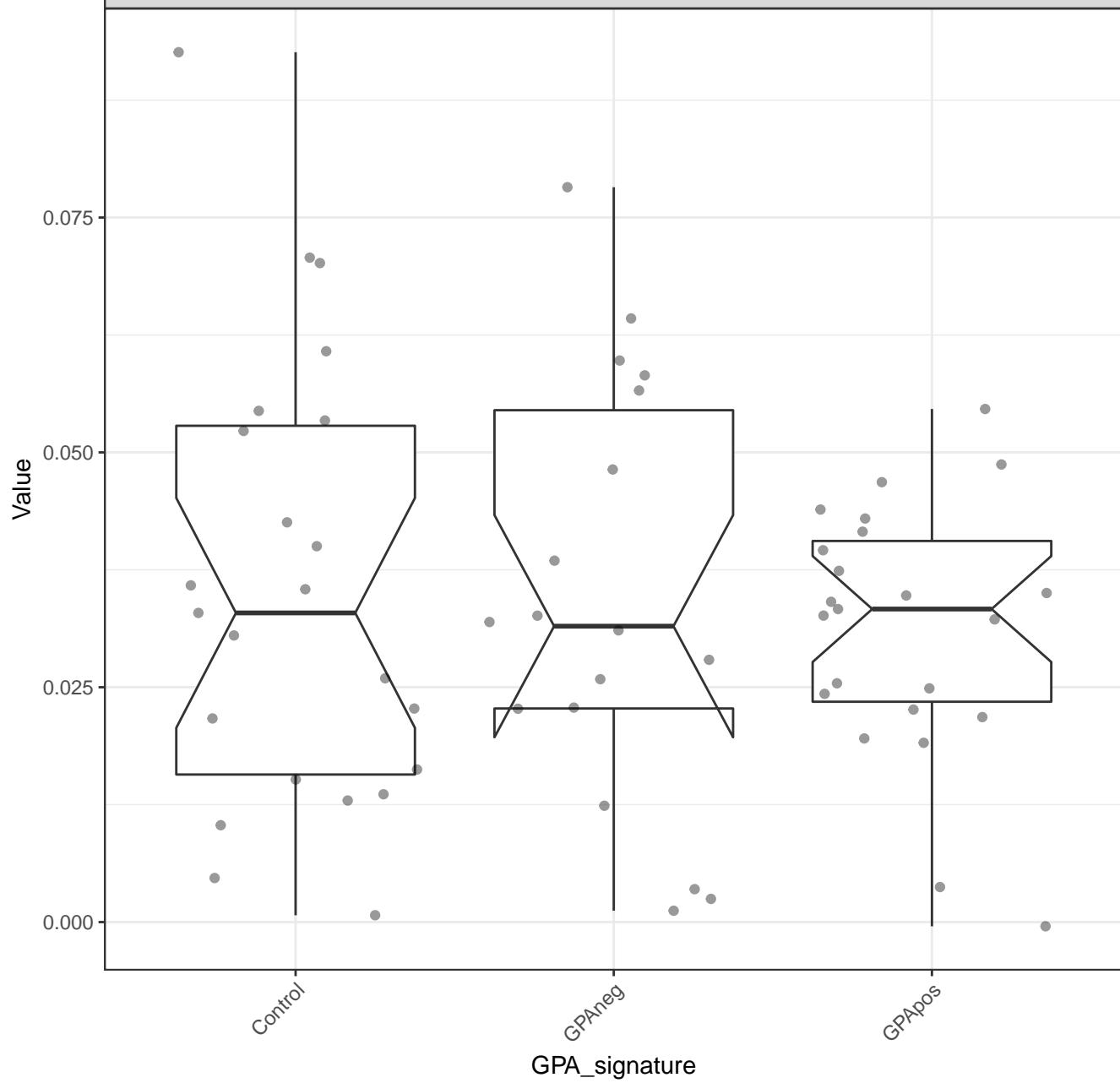


## LV 337



LV 338





LV 340

Value

0.00

-0.02

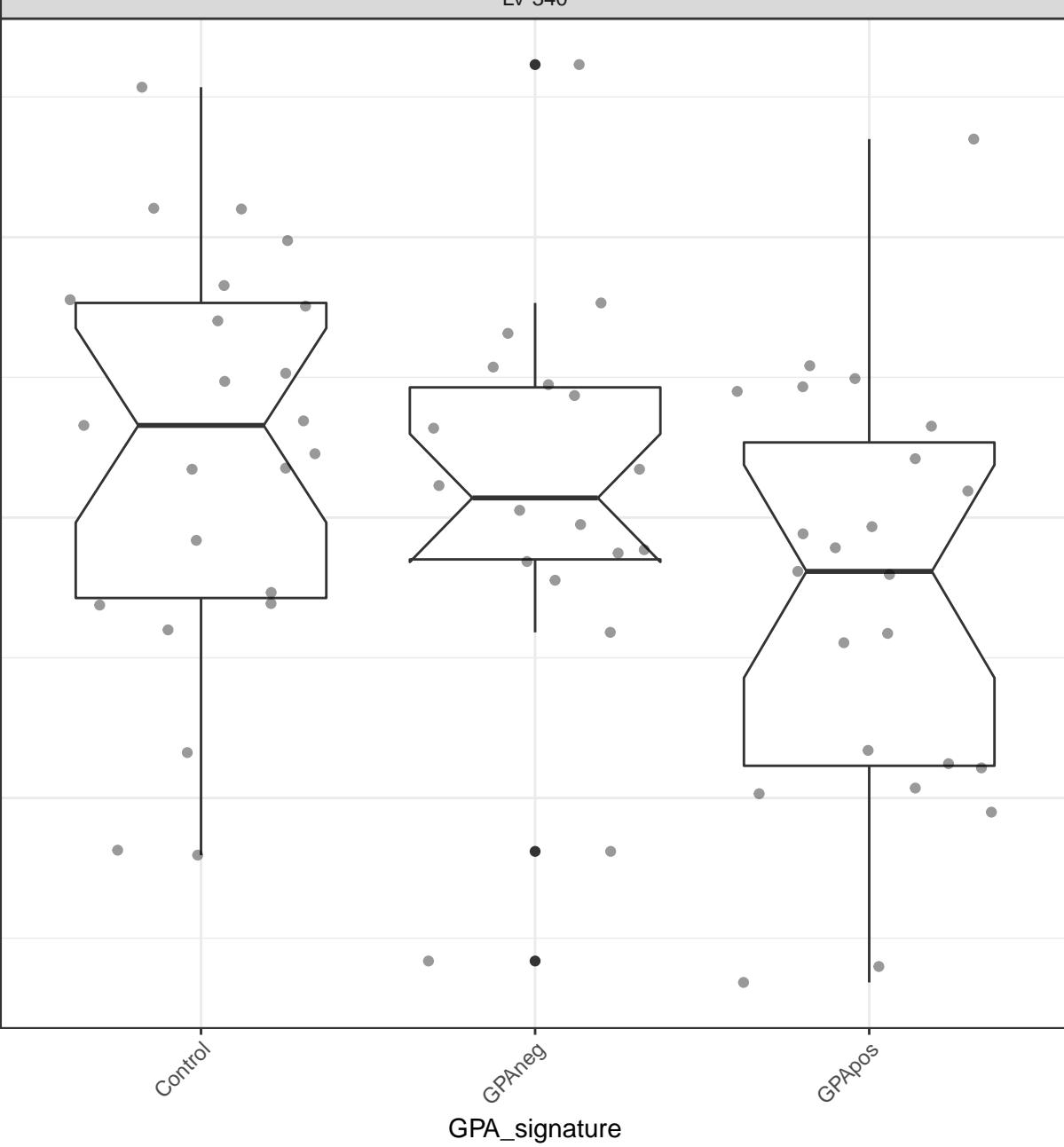
-0.04

Control

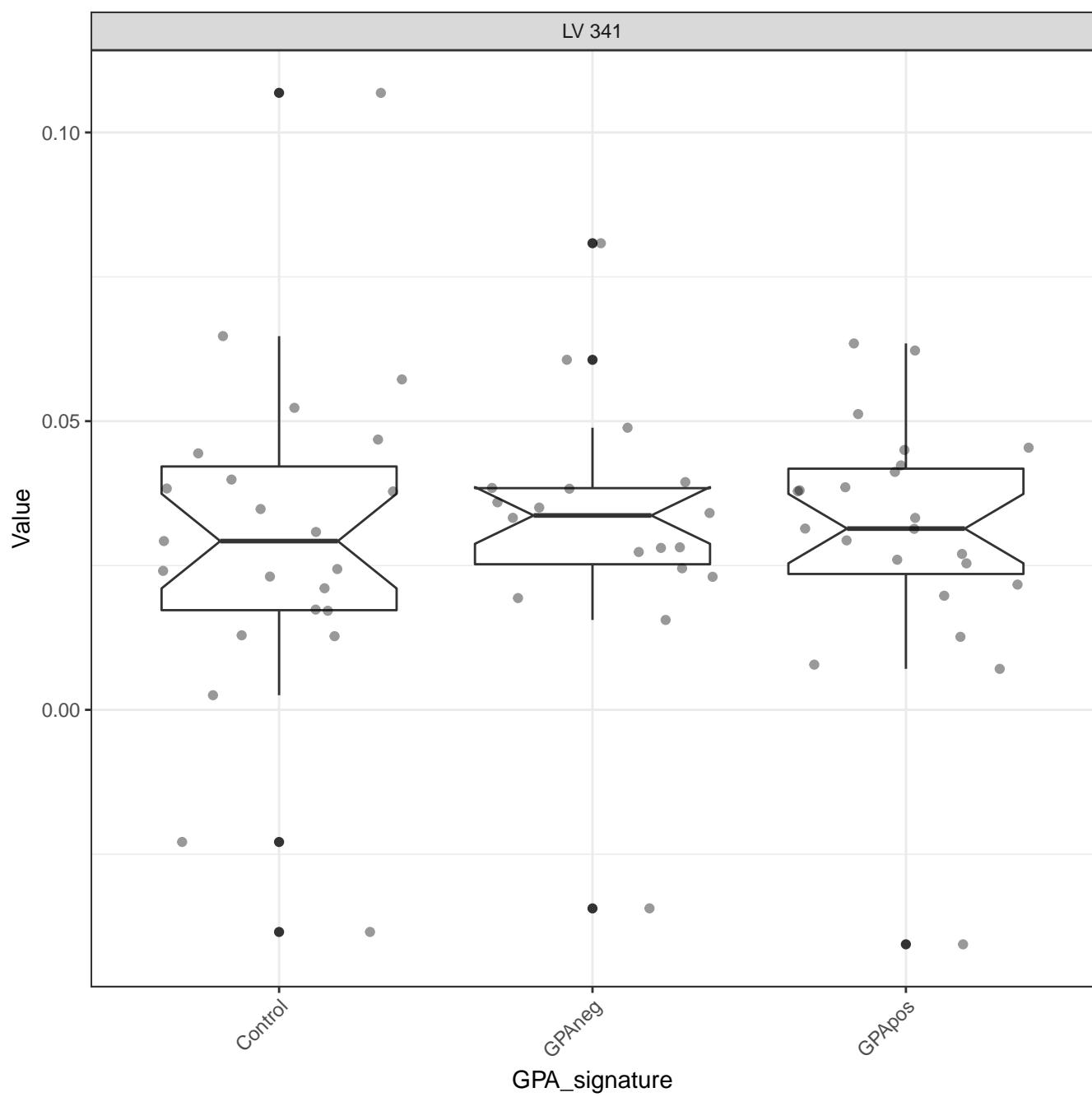
GPA\_signature

GPAneg

GPApos



## LV 341



## LV 342

Value

0.06

0.03

0.00

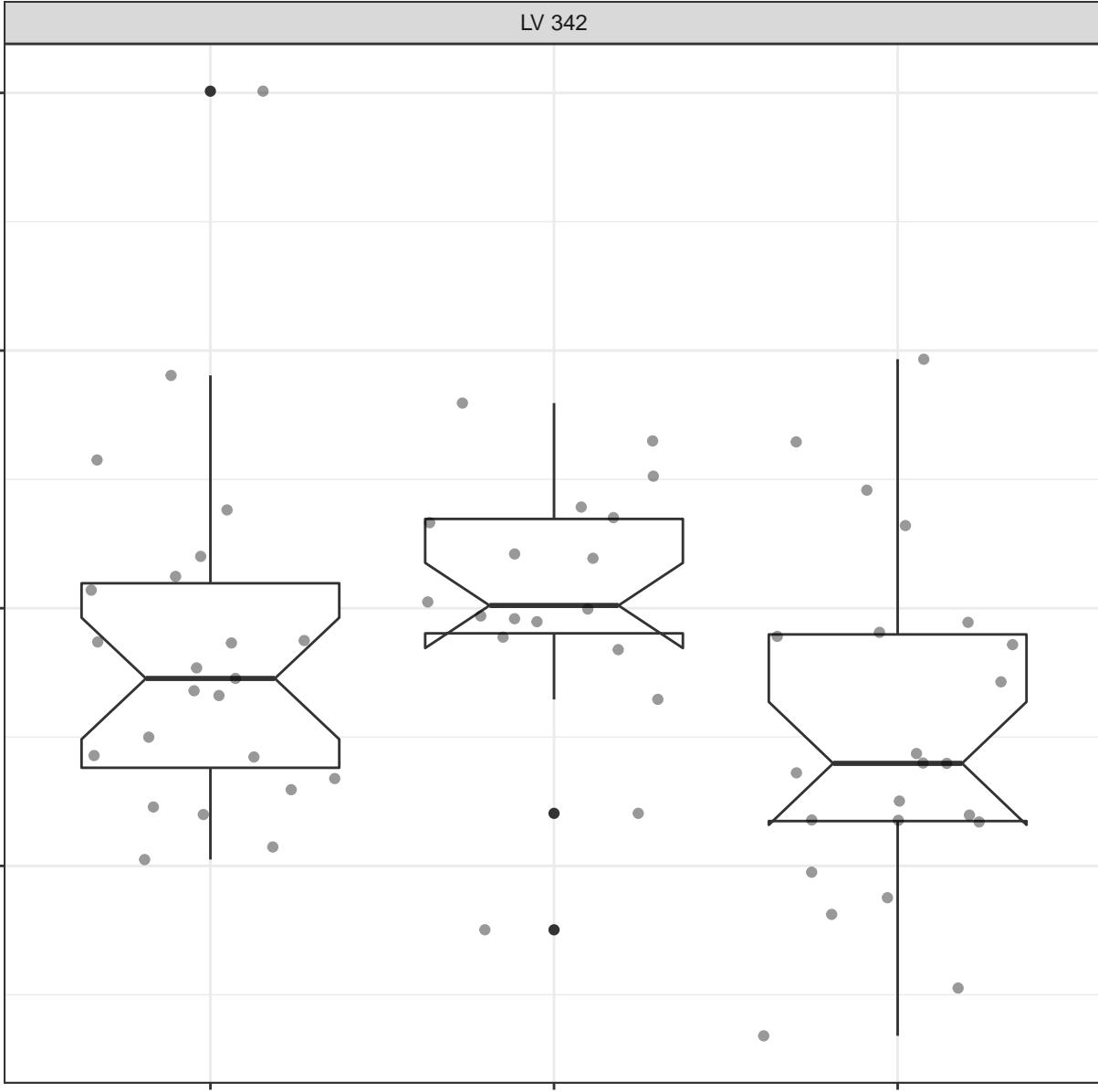
-0.03

Control

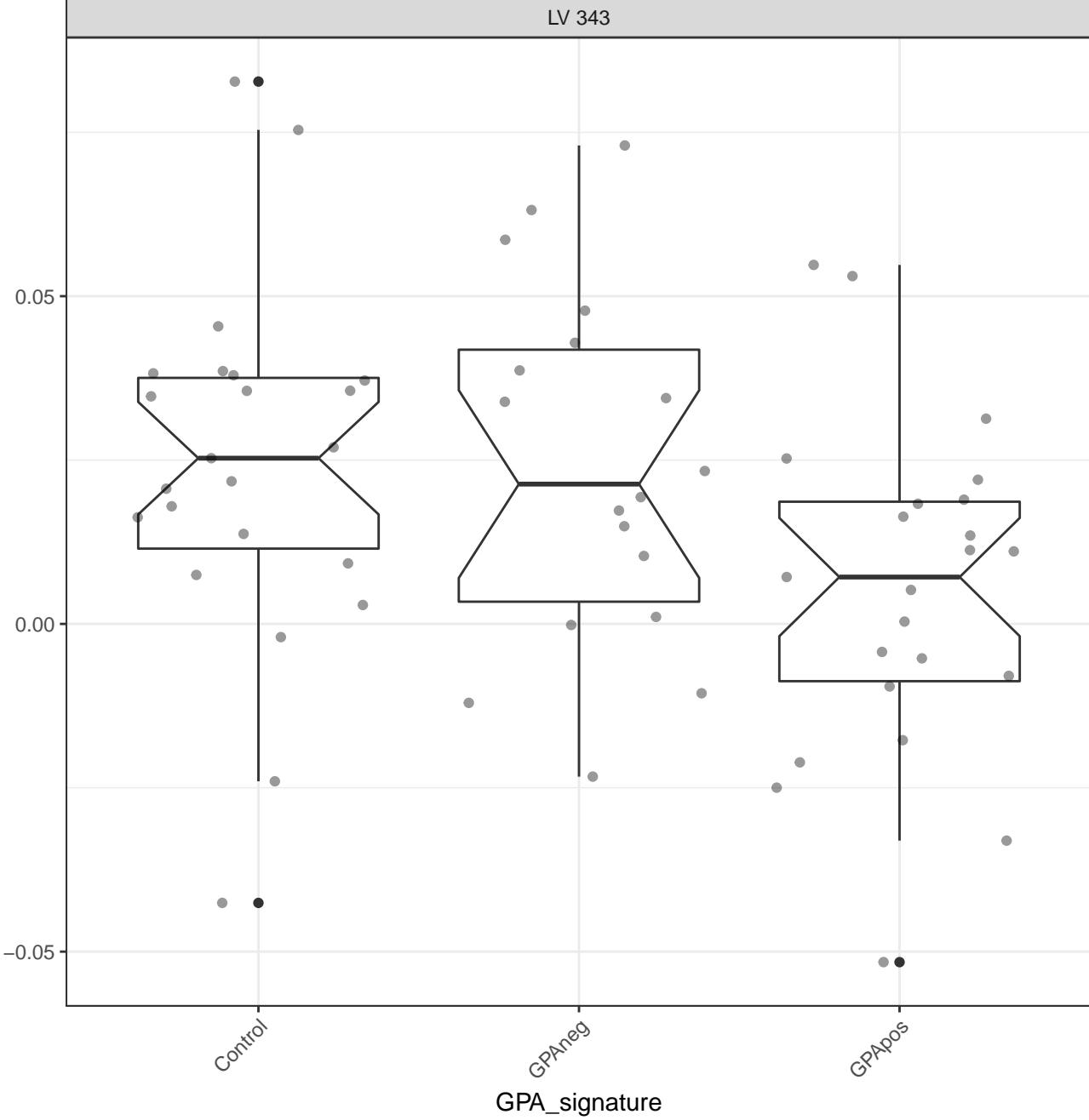
GPAneg

GPAPos

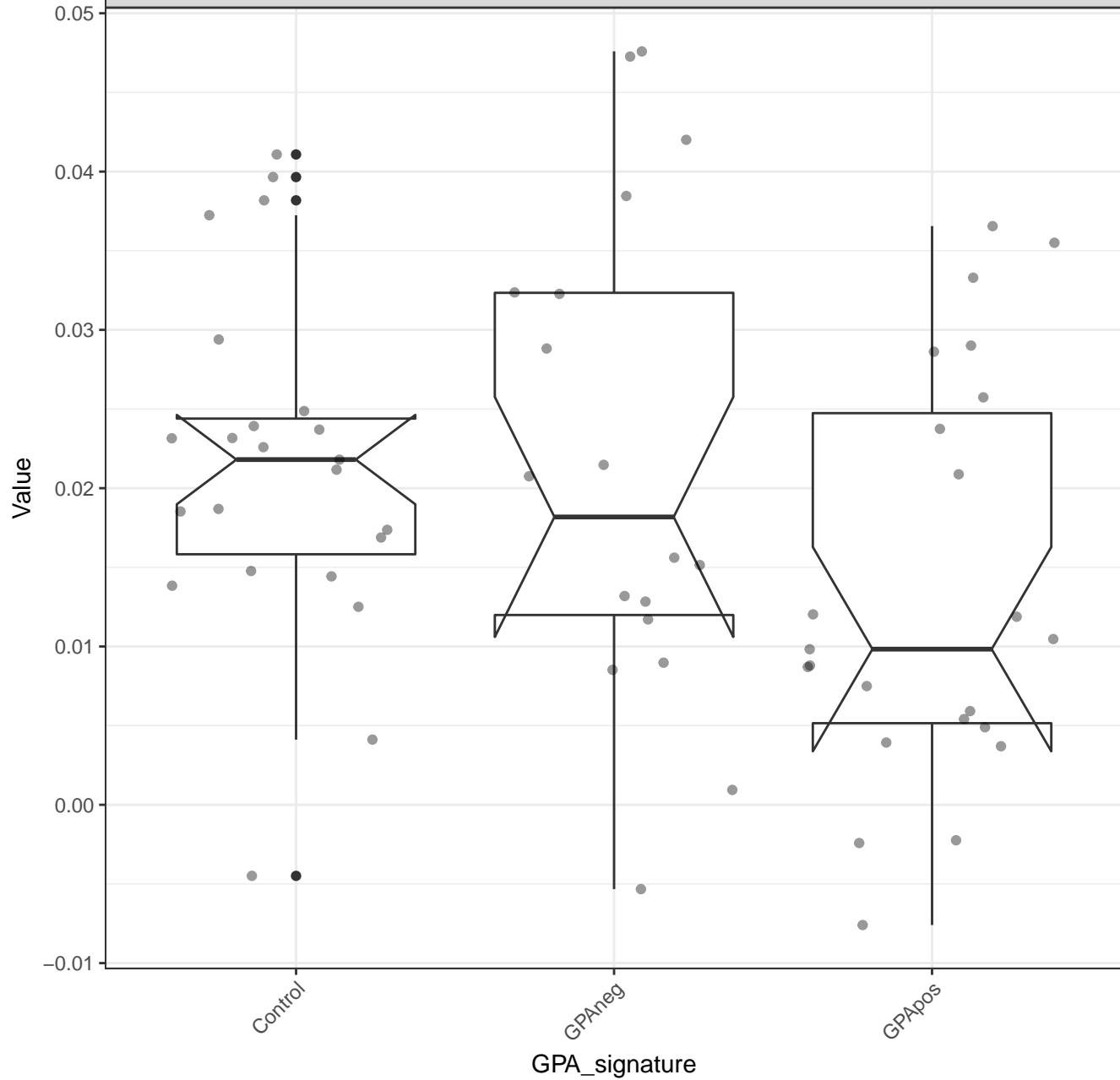
GPA\_signature



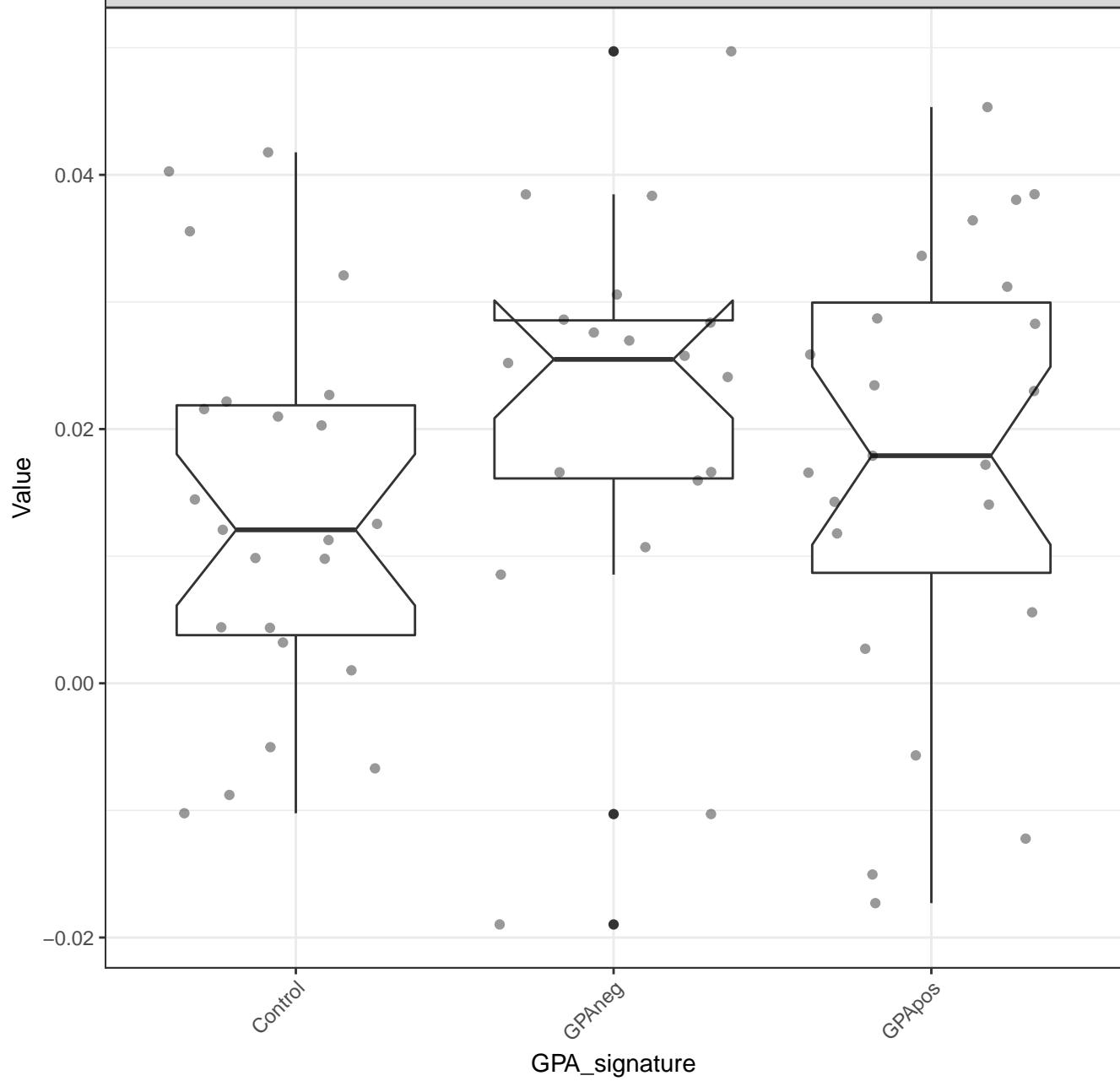
Value



LV 344

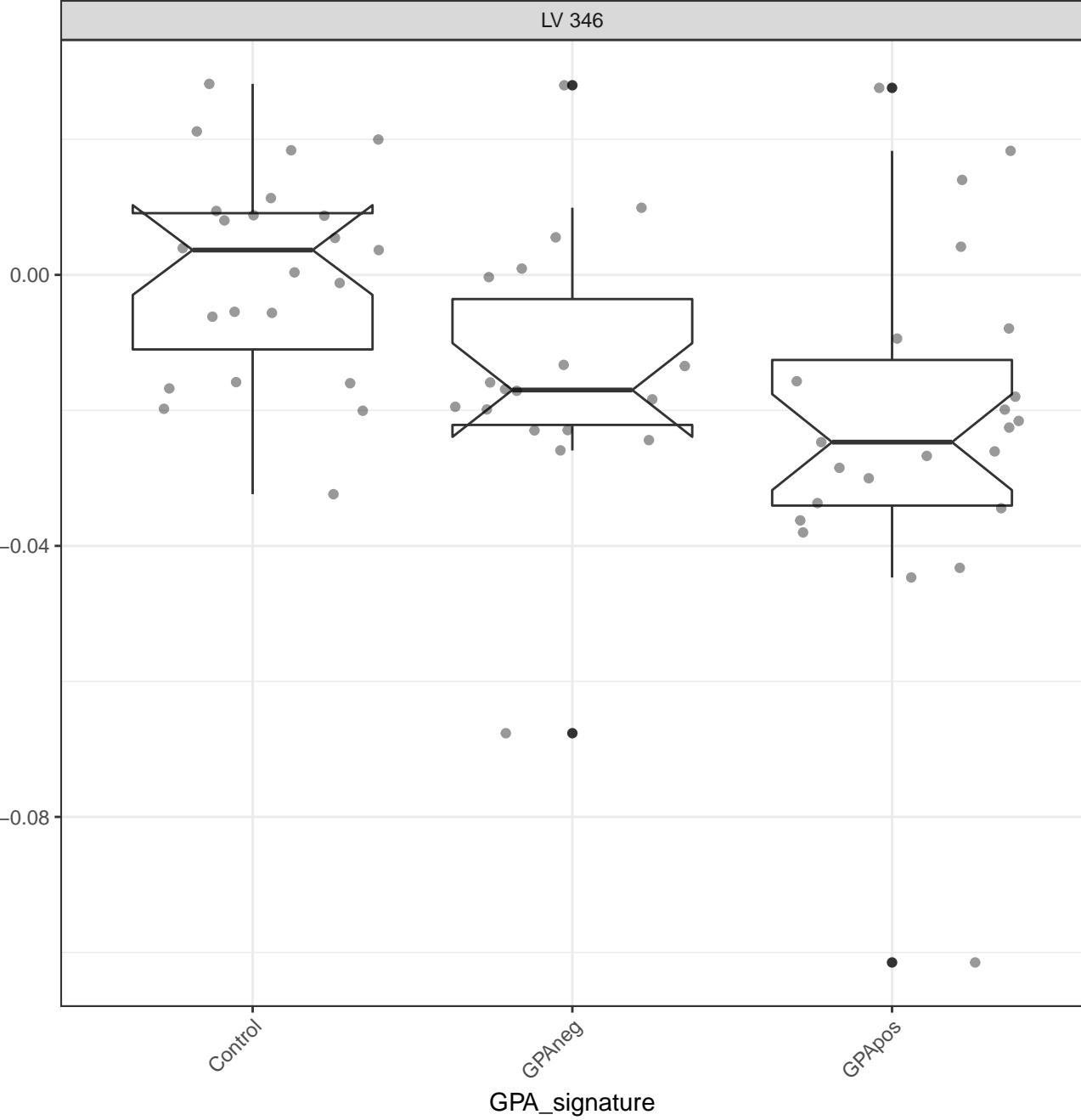


## LV 345

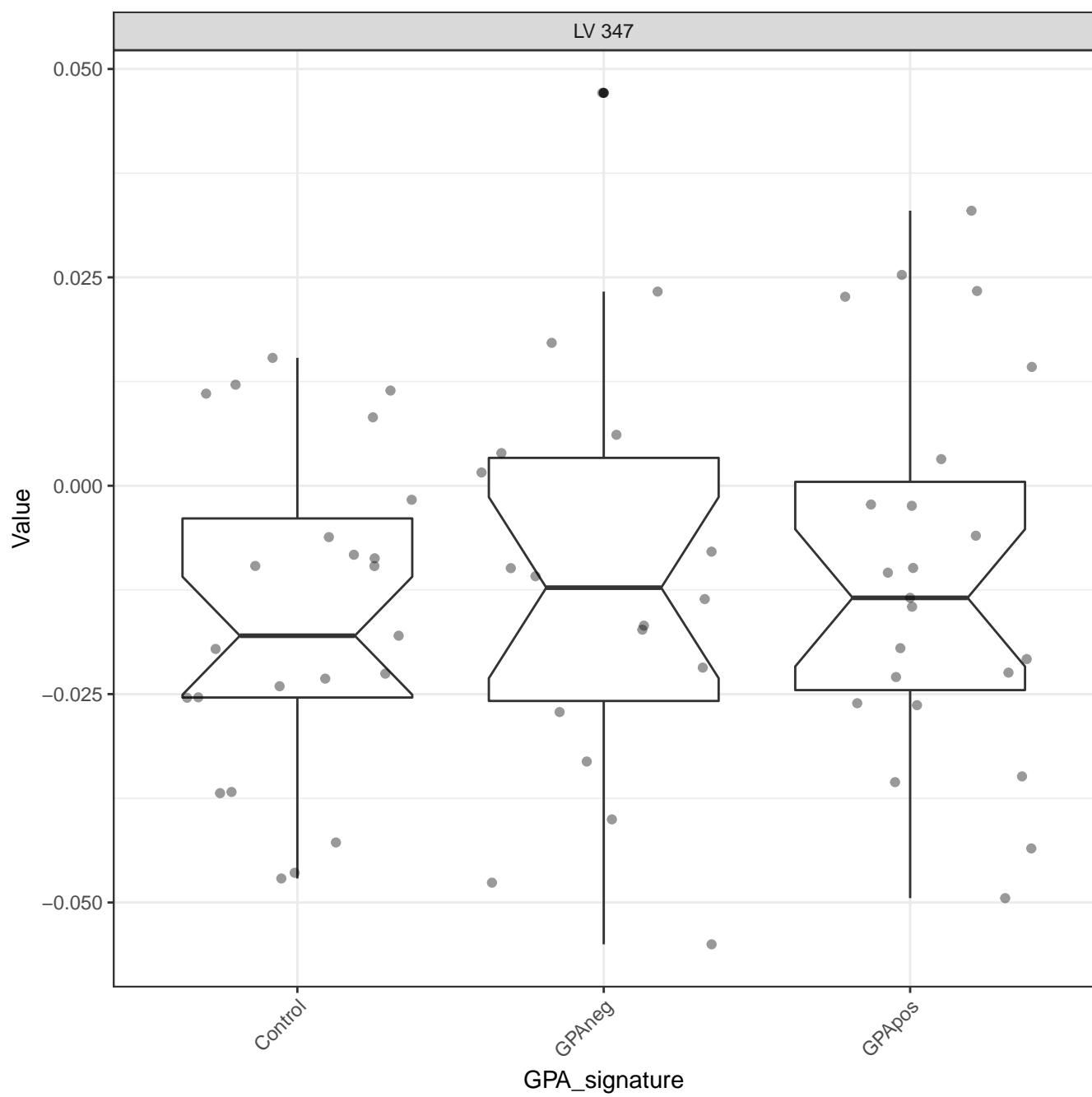


## LV 346

Value



LV 347



## LV 348

Value

0.050

0.025

0.000

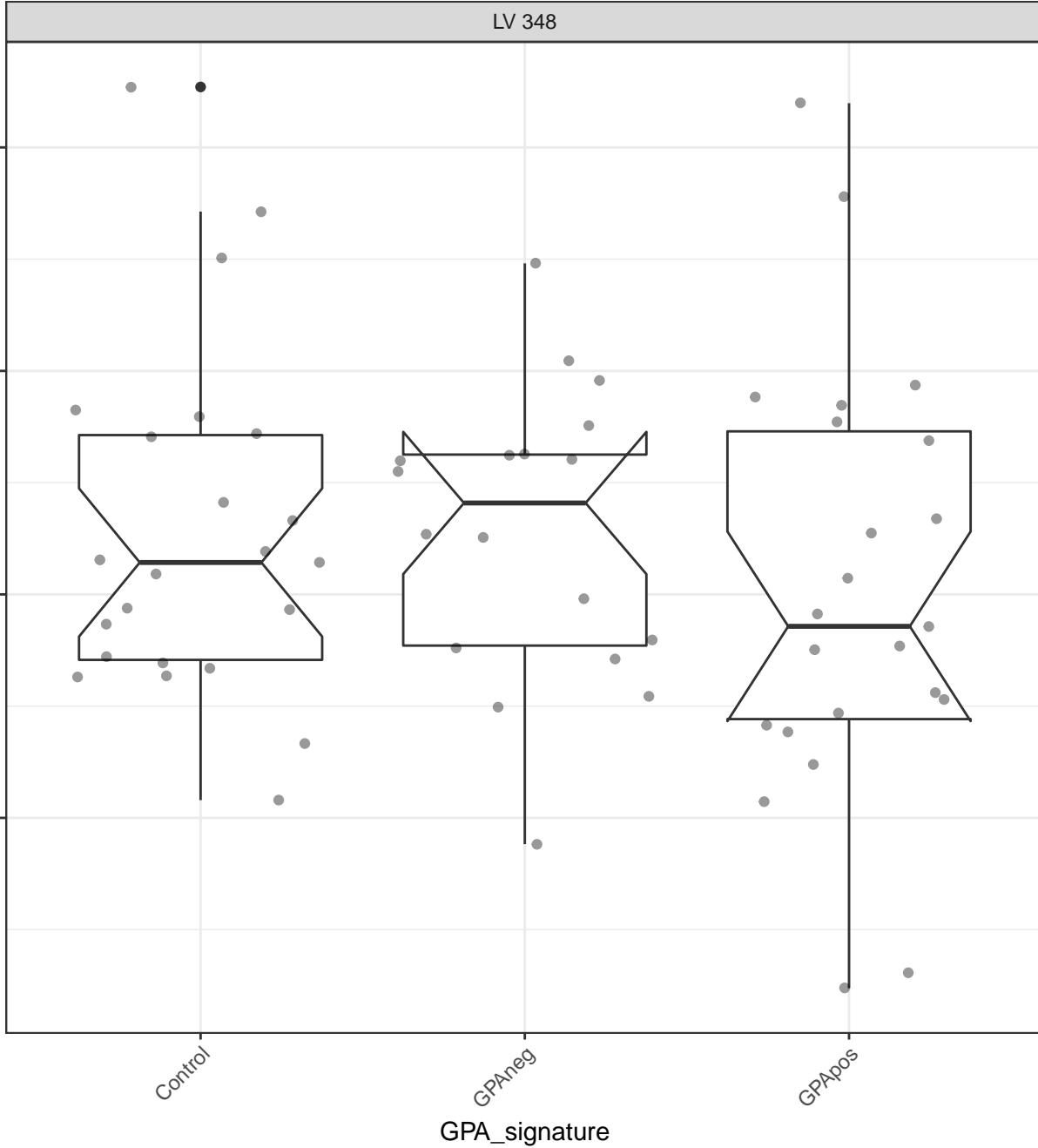
-0.025

Control

GPAneg

GPAPos

GPA\_signature



## LV 349

Value

0.050

0.025

0.000

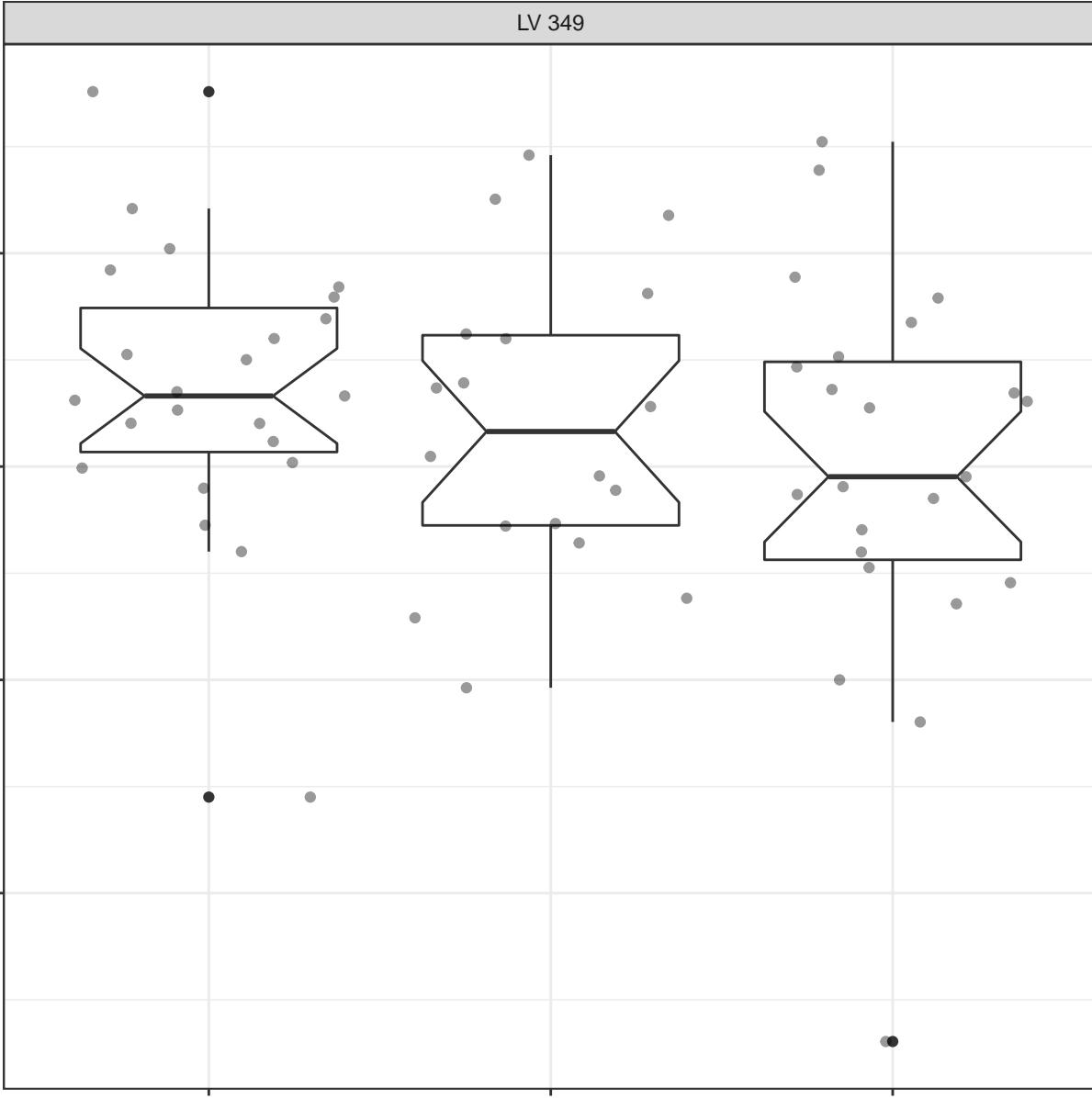
-0.025

Control

GPAneg

GPAPos

GPA\_signature



LV 350

Value

0.05

0.01

-0.05

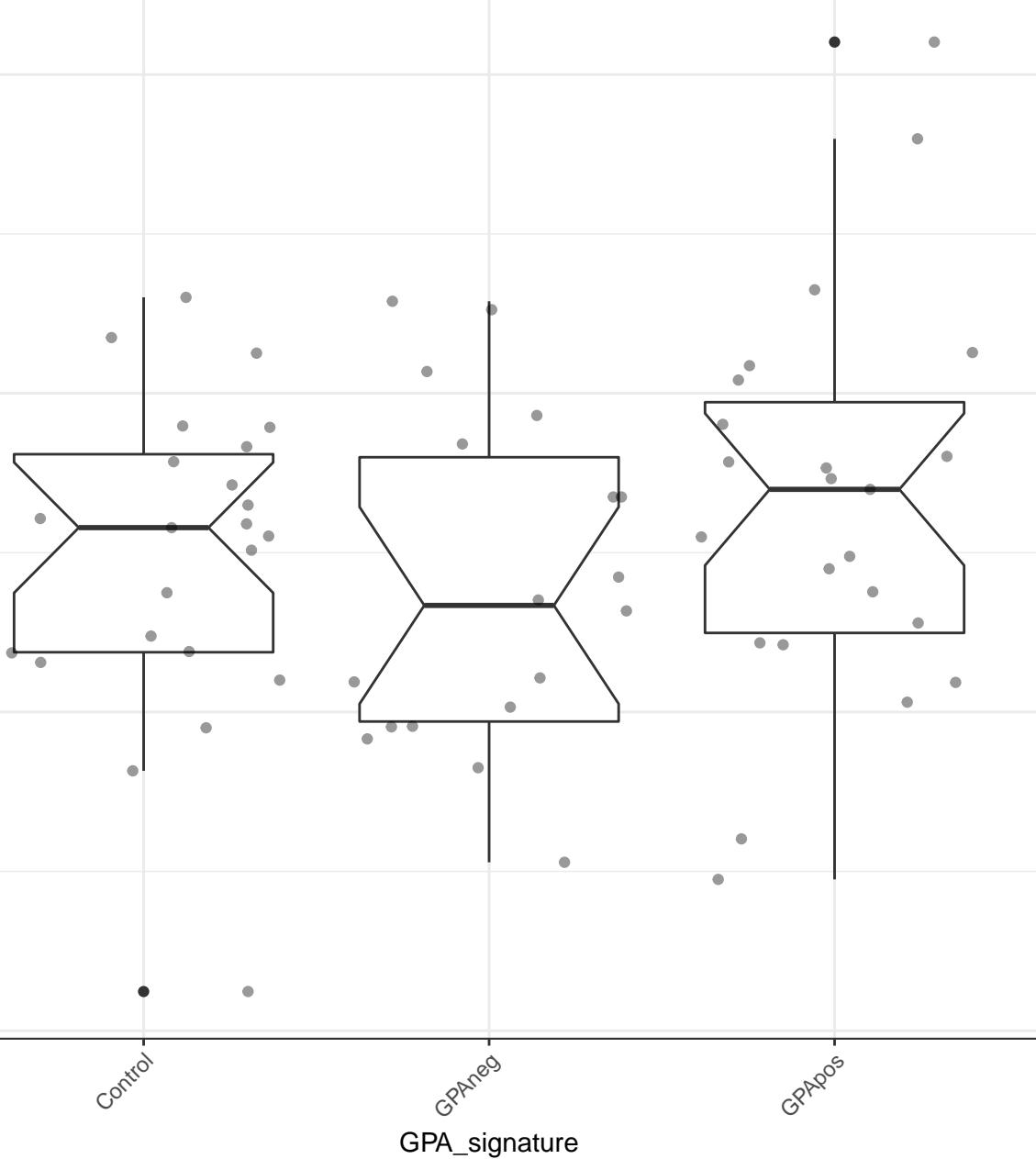
-0.10

Control

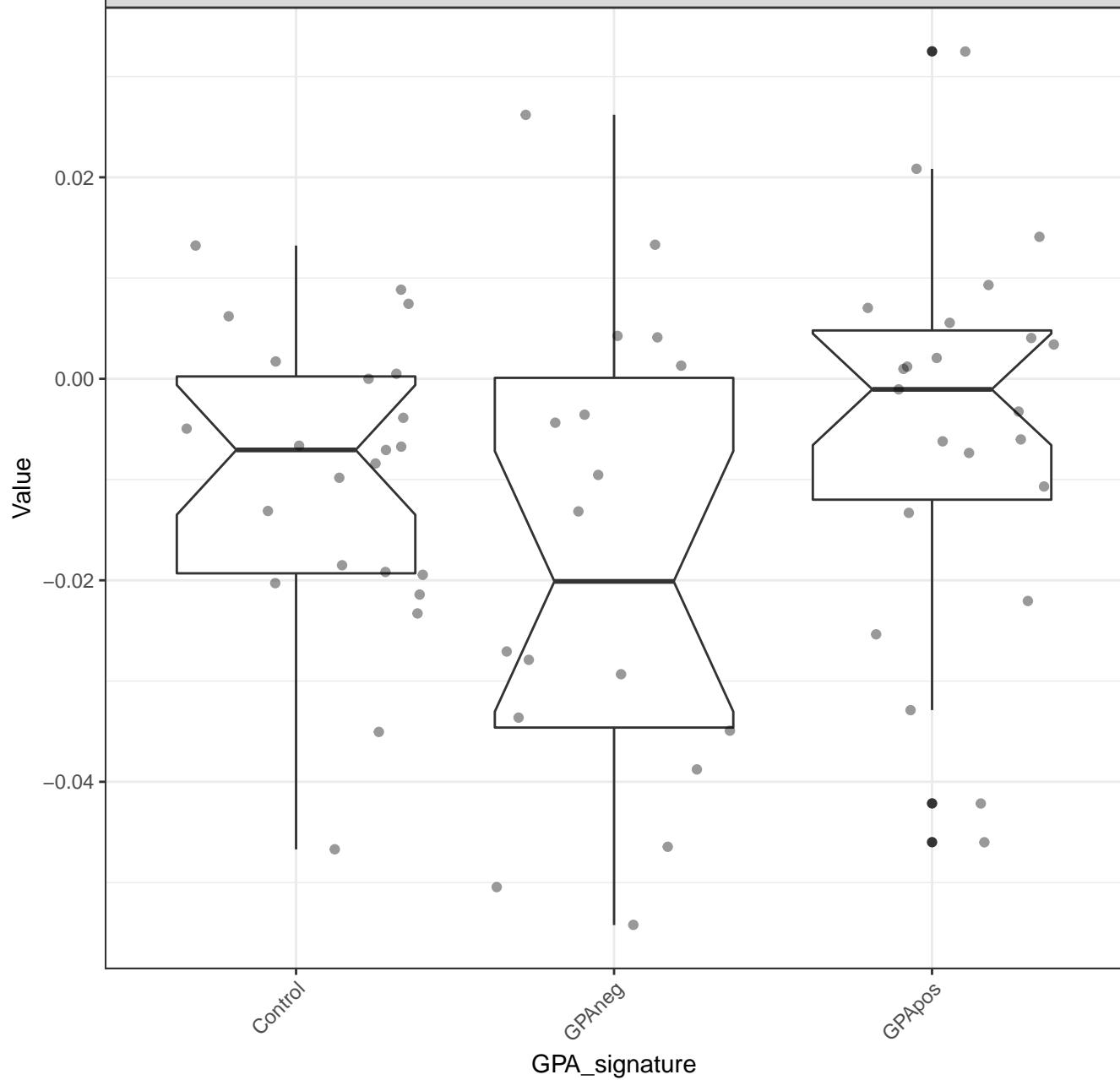
GPAneg

GPApos

GPA\_signature



LV 351



LV 352

Value

0.00

-0.02

-0.04

-0.06

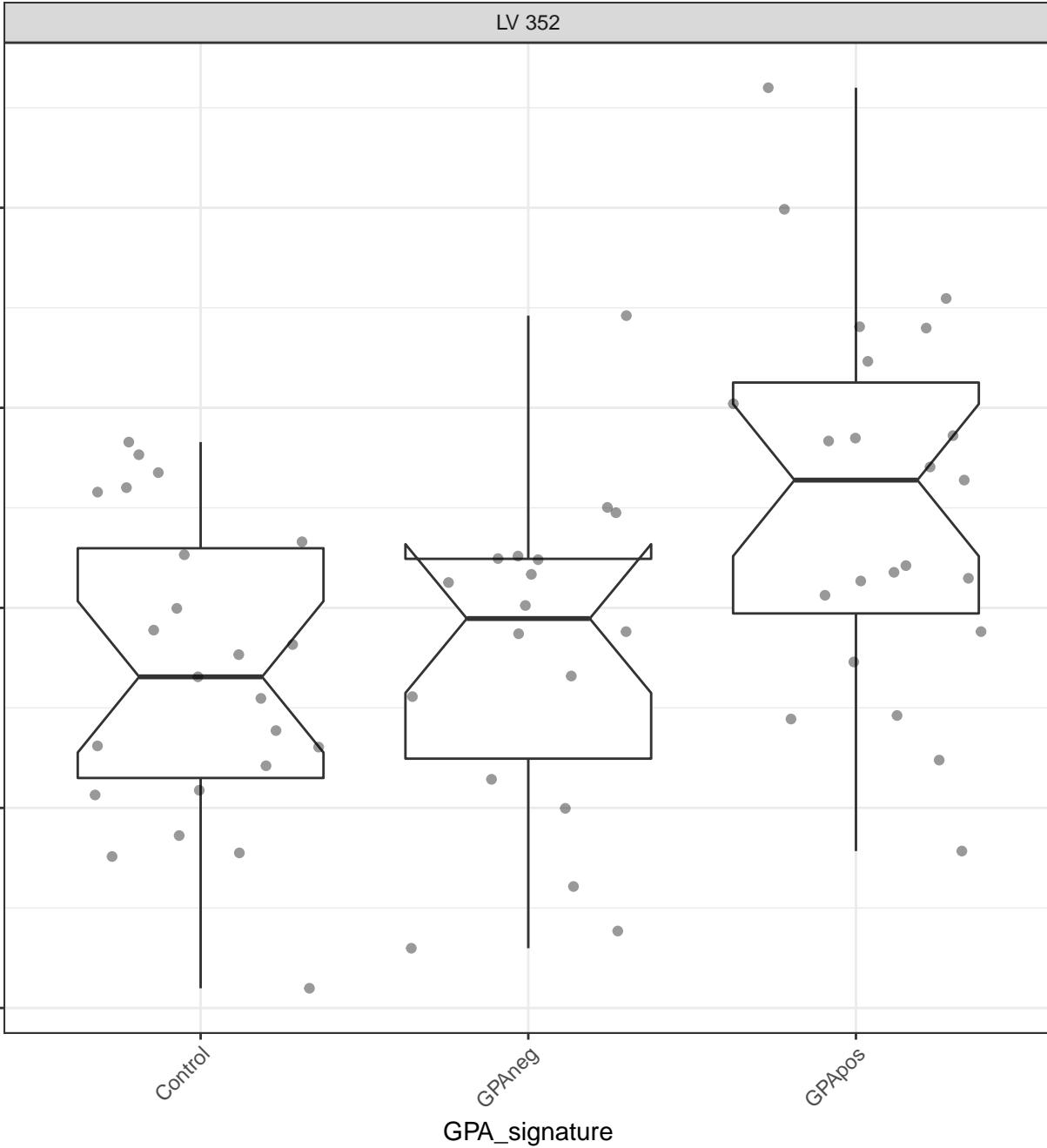
-0.08

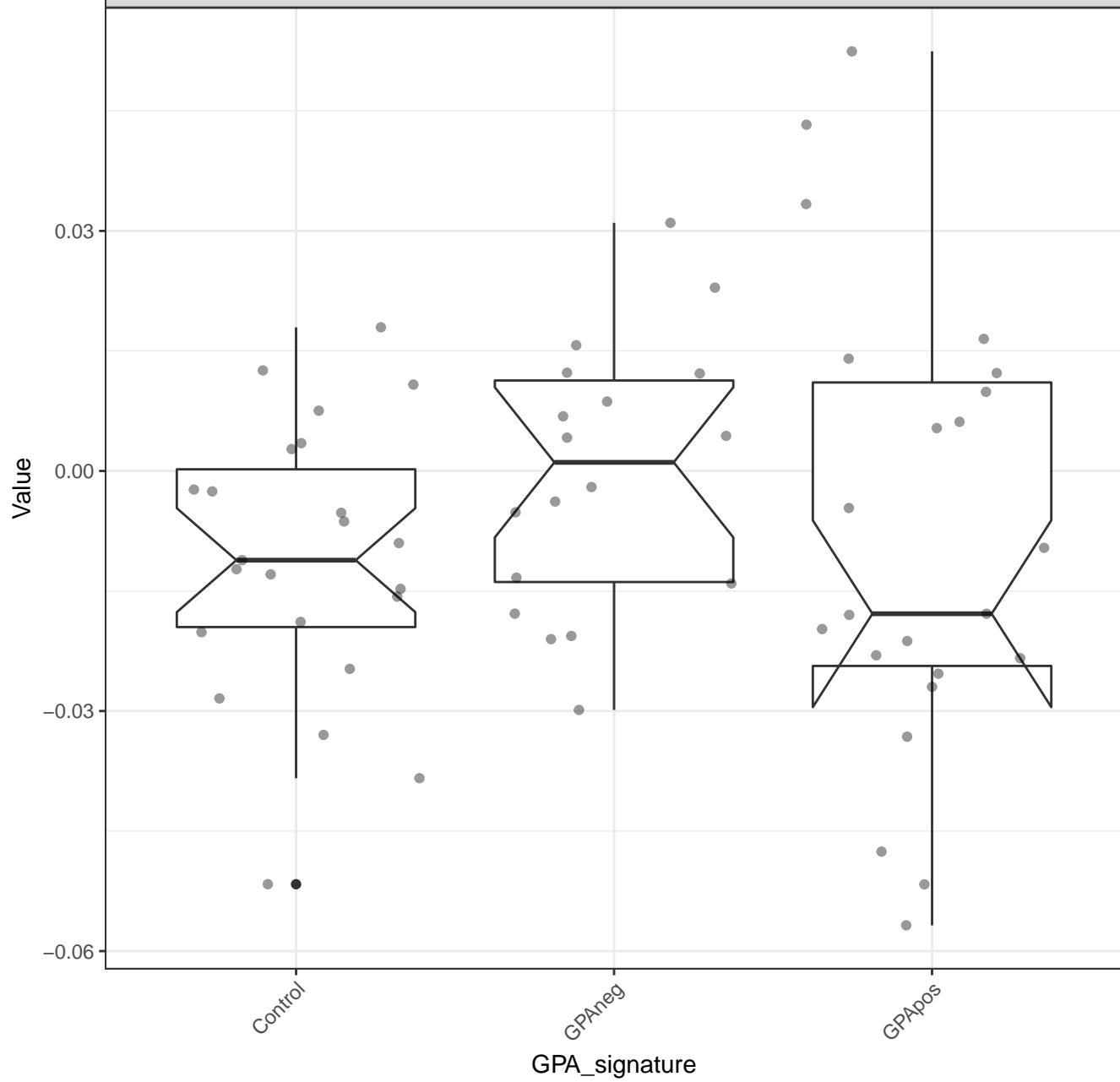
Control

GPAneg

GPAPos

GPA\_signature





LV 354

Value

0.06

0.03

0.00

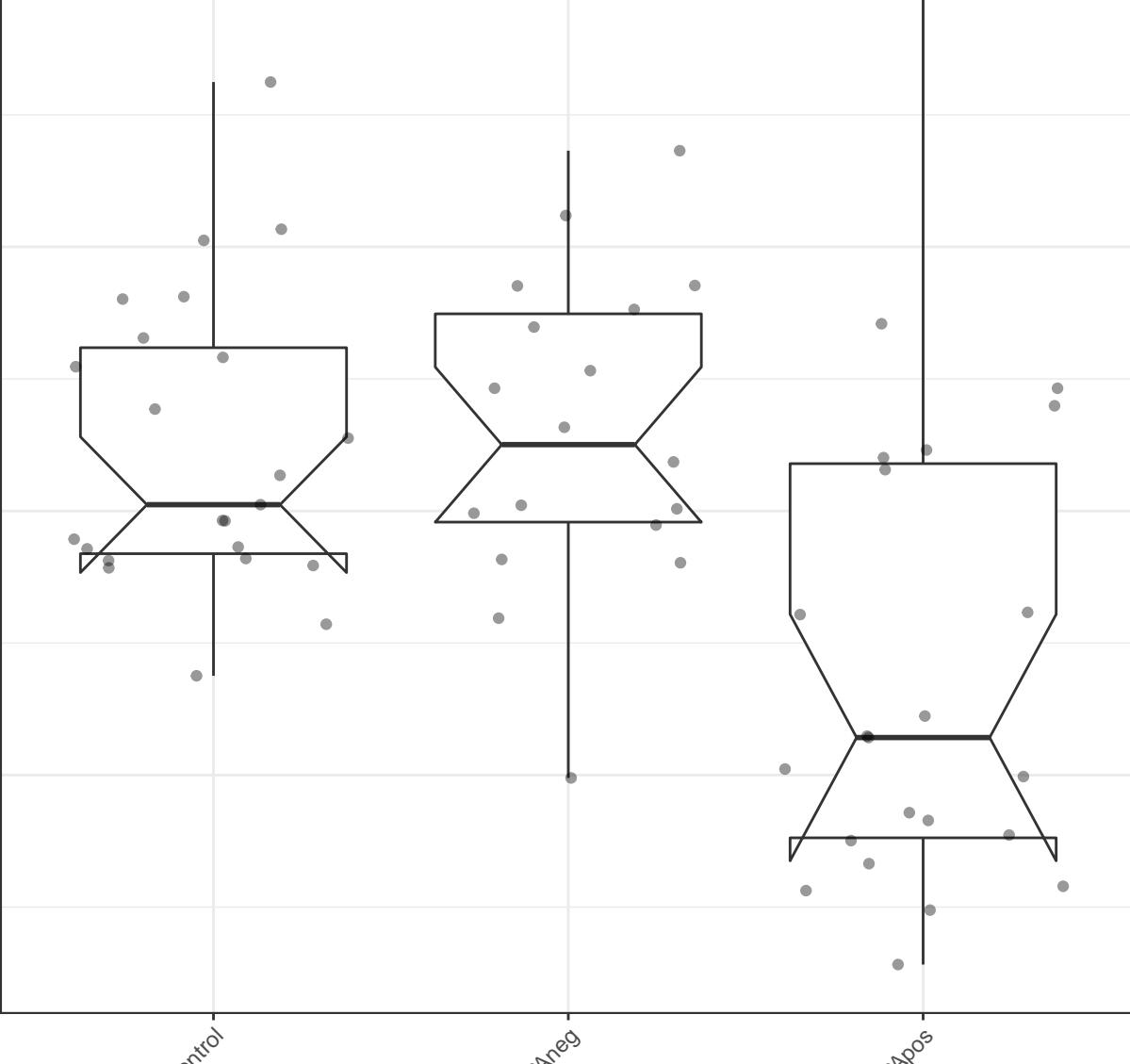
-0.03

Control

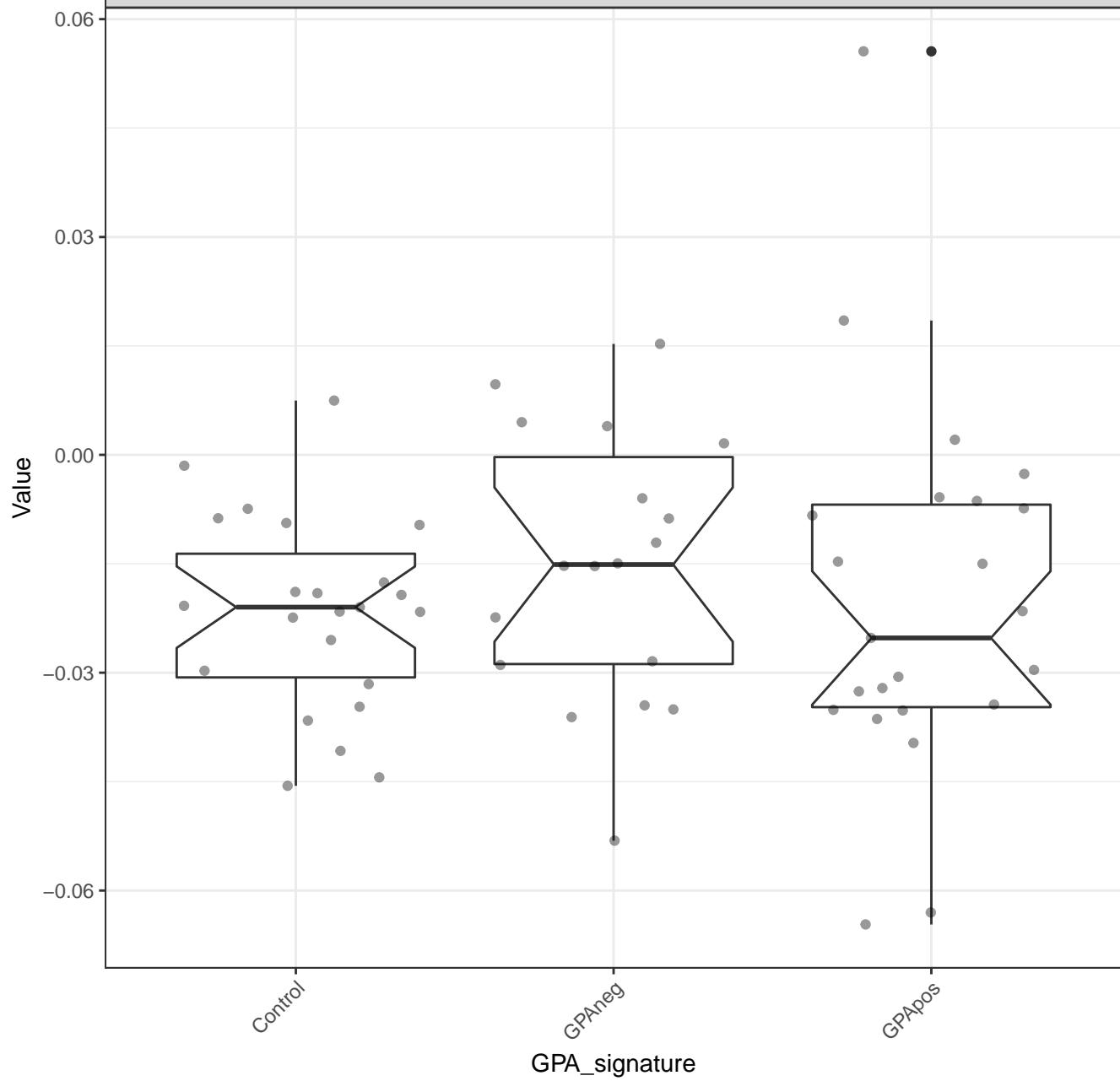
GPA\_signature

GPAneg

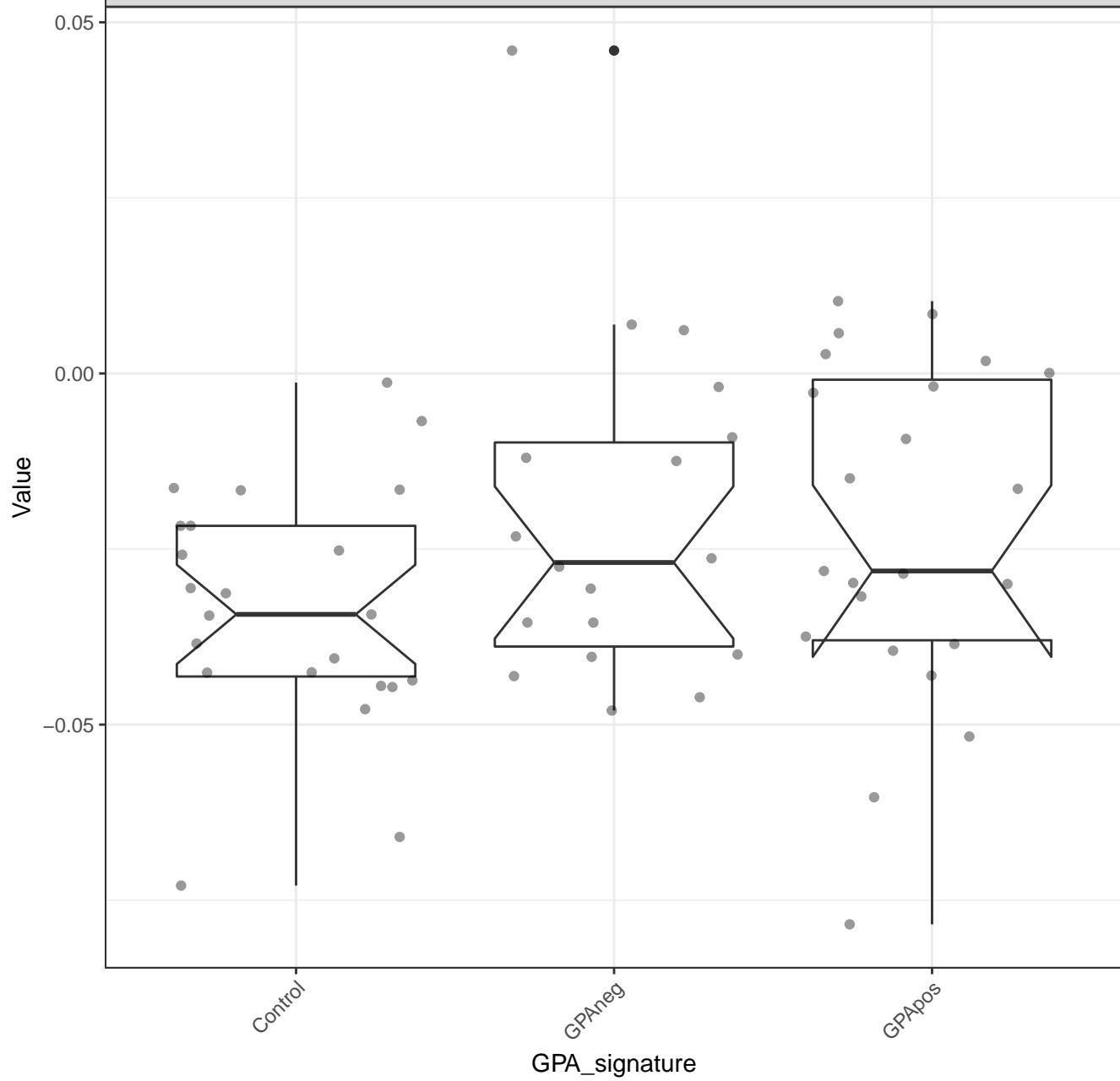
GPApos



LV 355



## 356,REACTOME\_TRANSCRITIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMMER



## LV 357

Value

0.05

0.00

-0.05

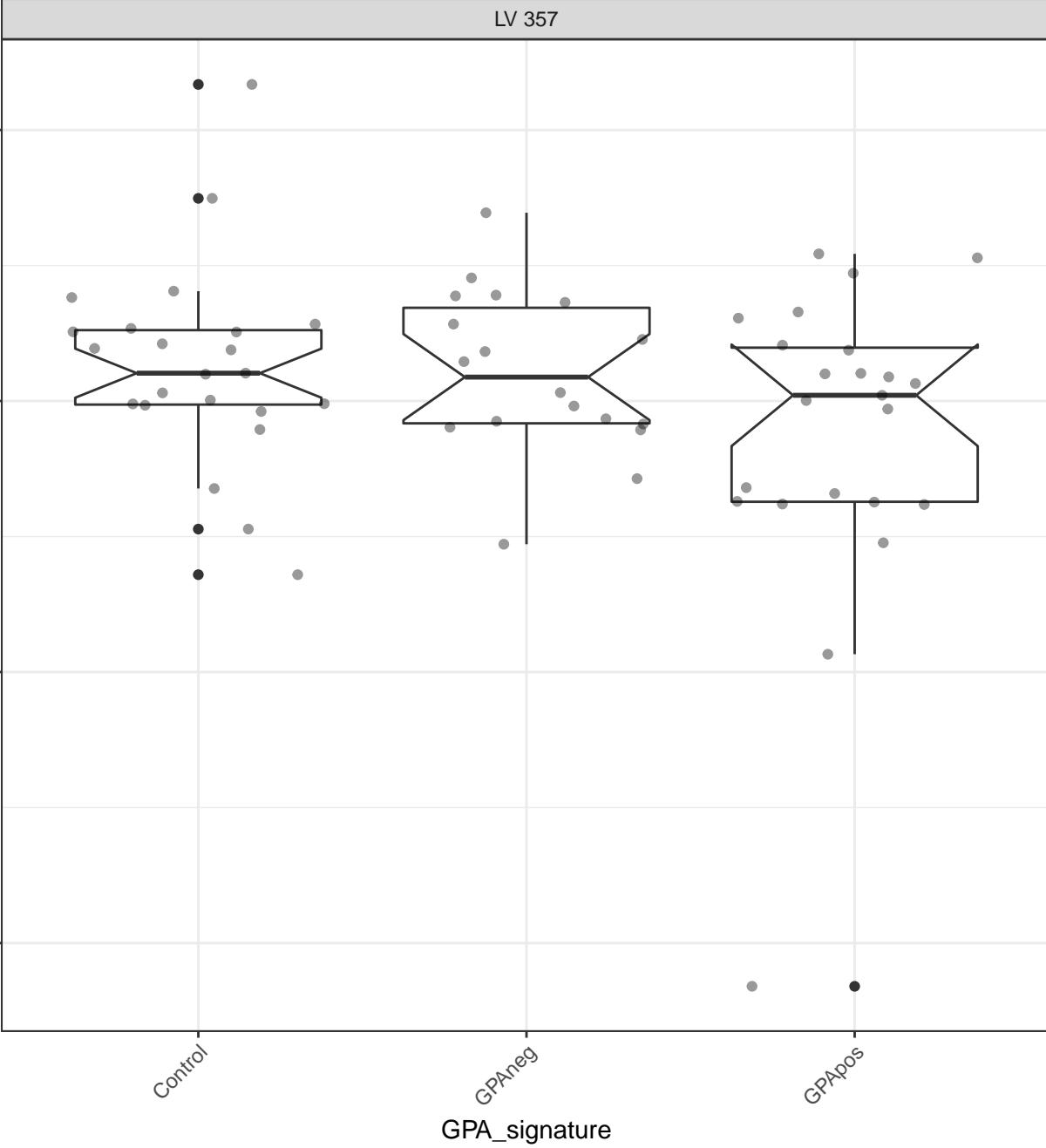
-0.10

Control

GPAneg

GPAPos

GPA\_signature



LV 358

Value

0.04

0.02

0.00

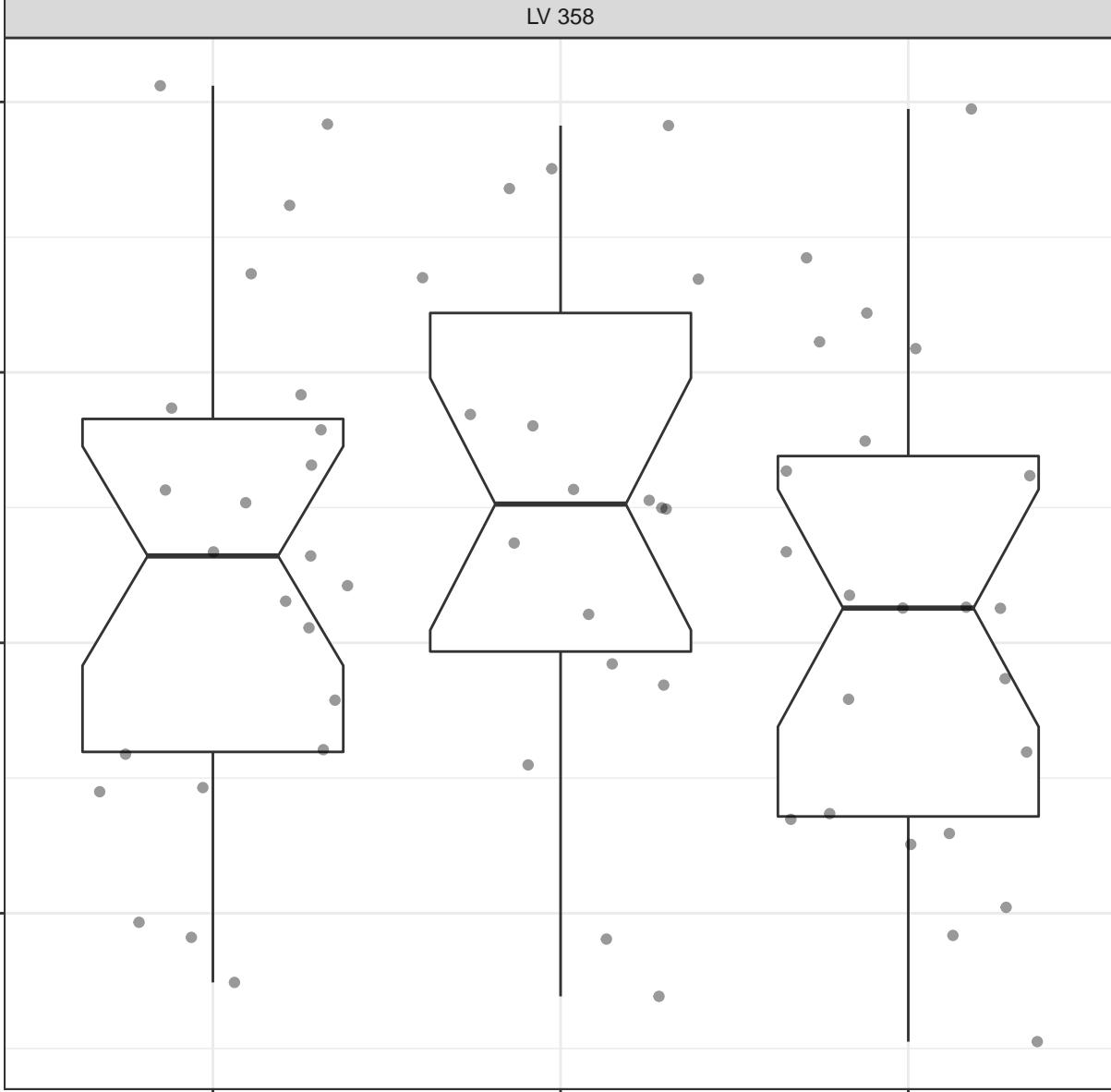
-0.02

Control

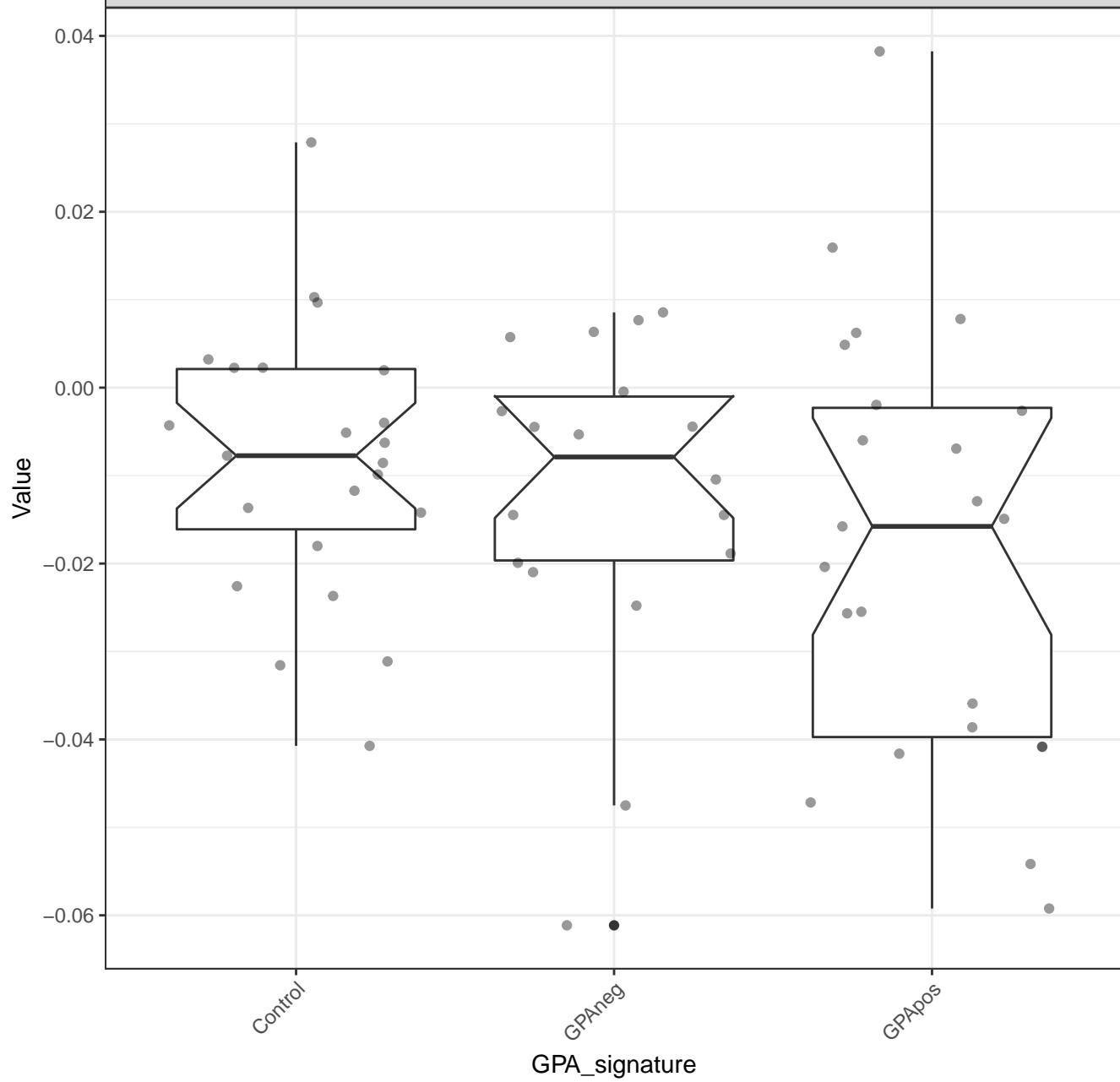
GPA\_signature

GPAneg

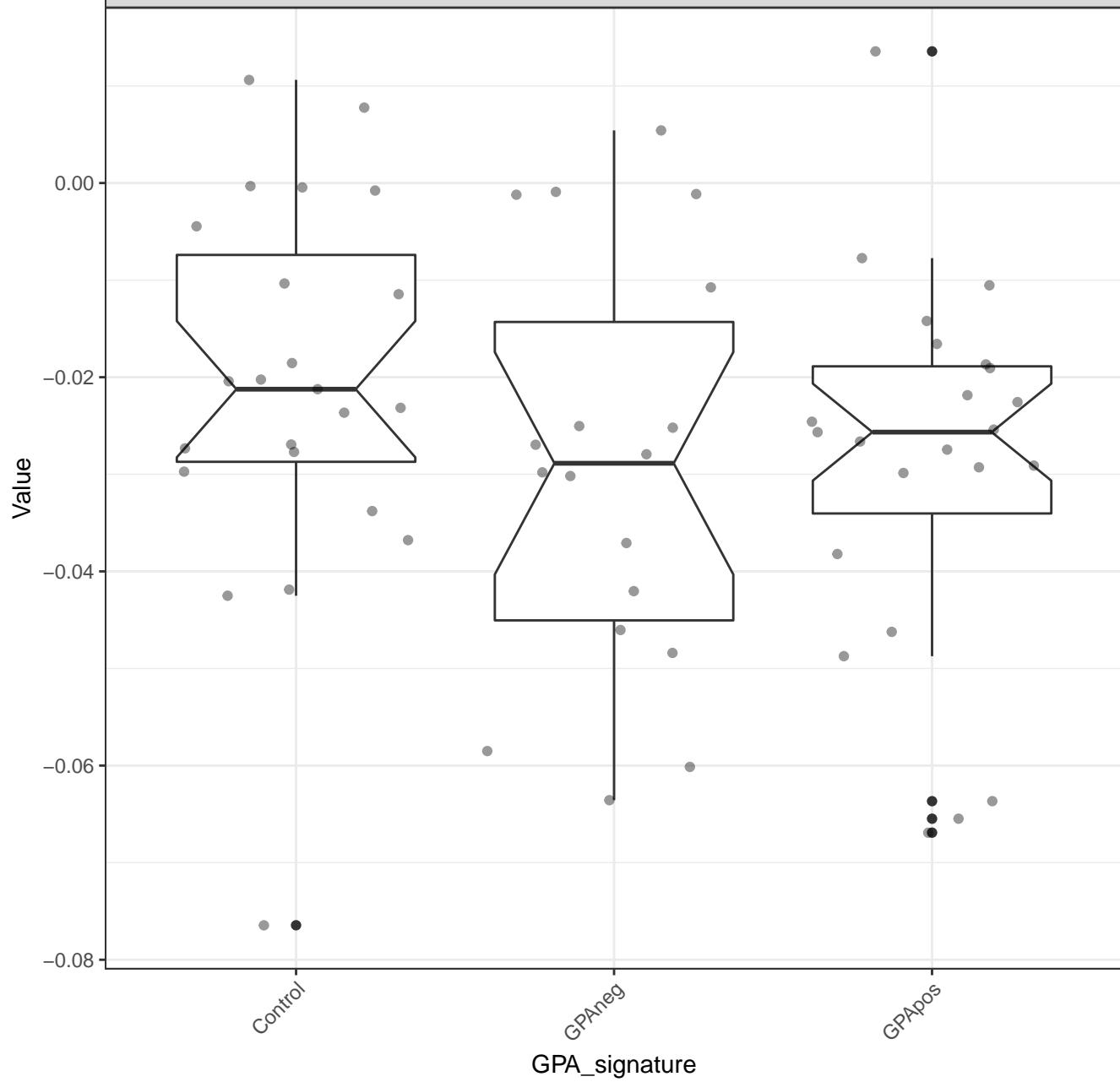
GPApos



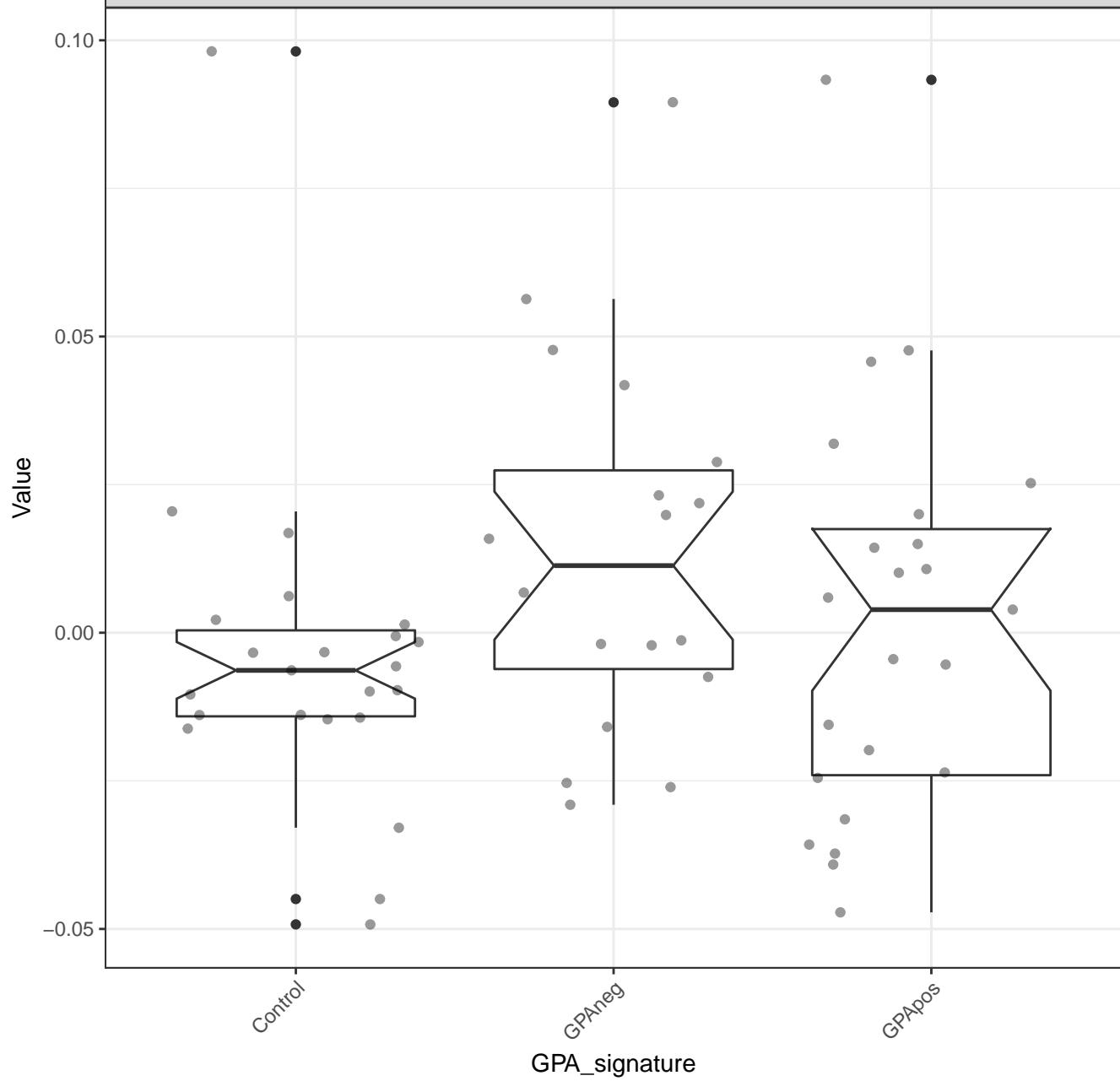
LV 359



## LV 360



## LV 361



LV 362

Value

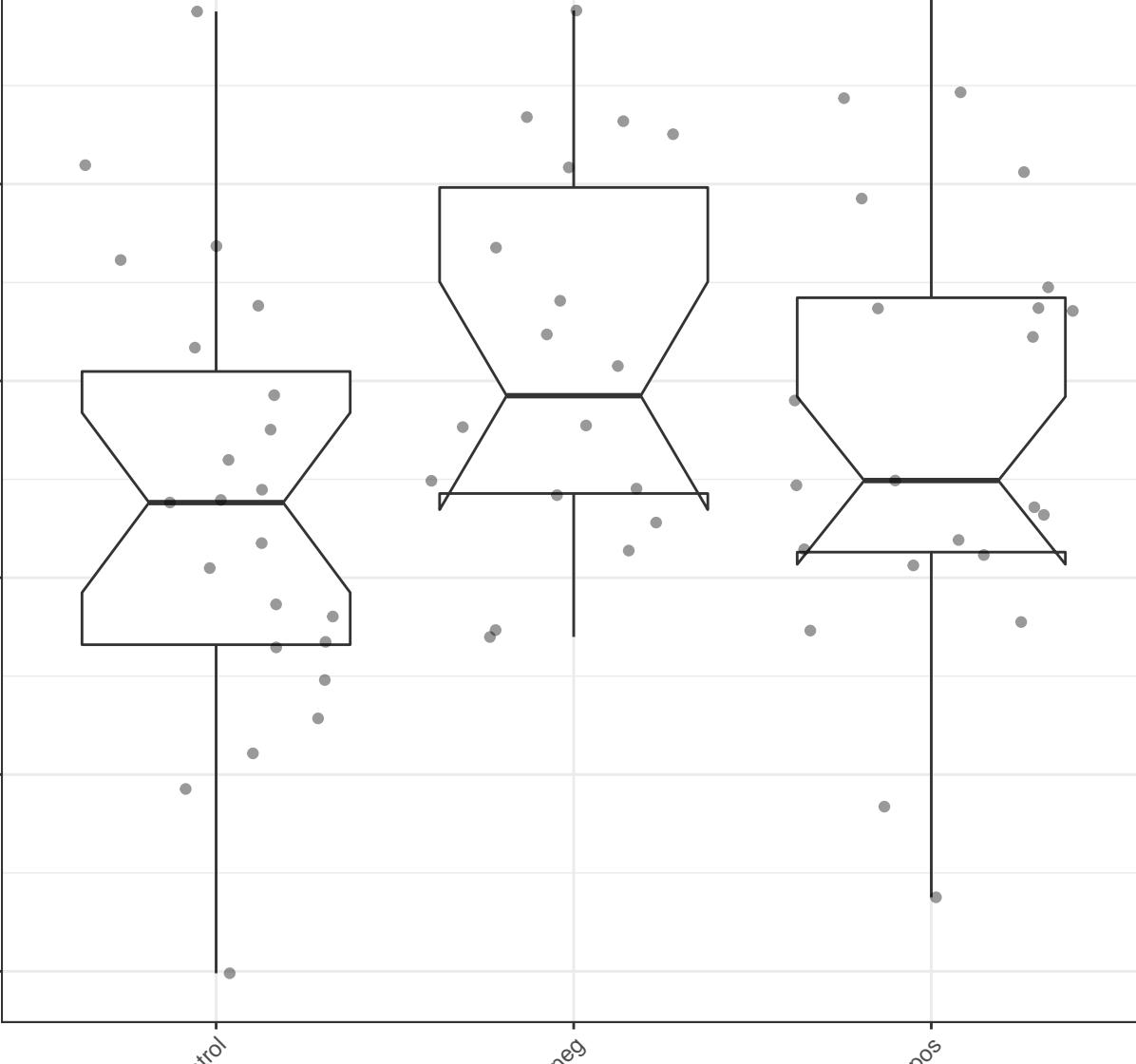
0.04  
0.02  
0.00  
-0.02  
-0.04  
-0.06

Control

GPAneg

GPApos

GPA\_signature



## LV 363

Value

0.04

0.02

0.00

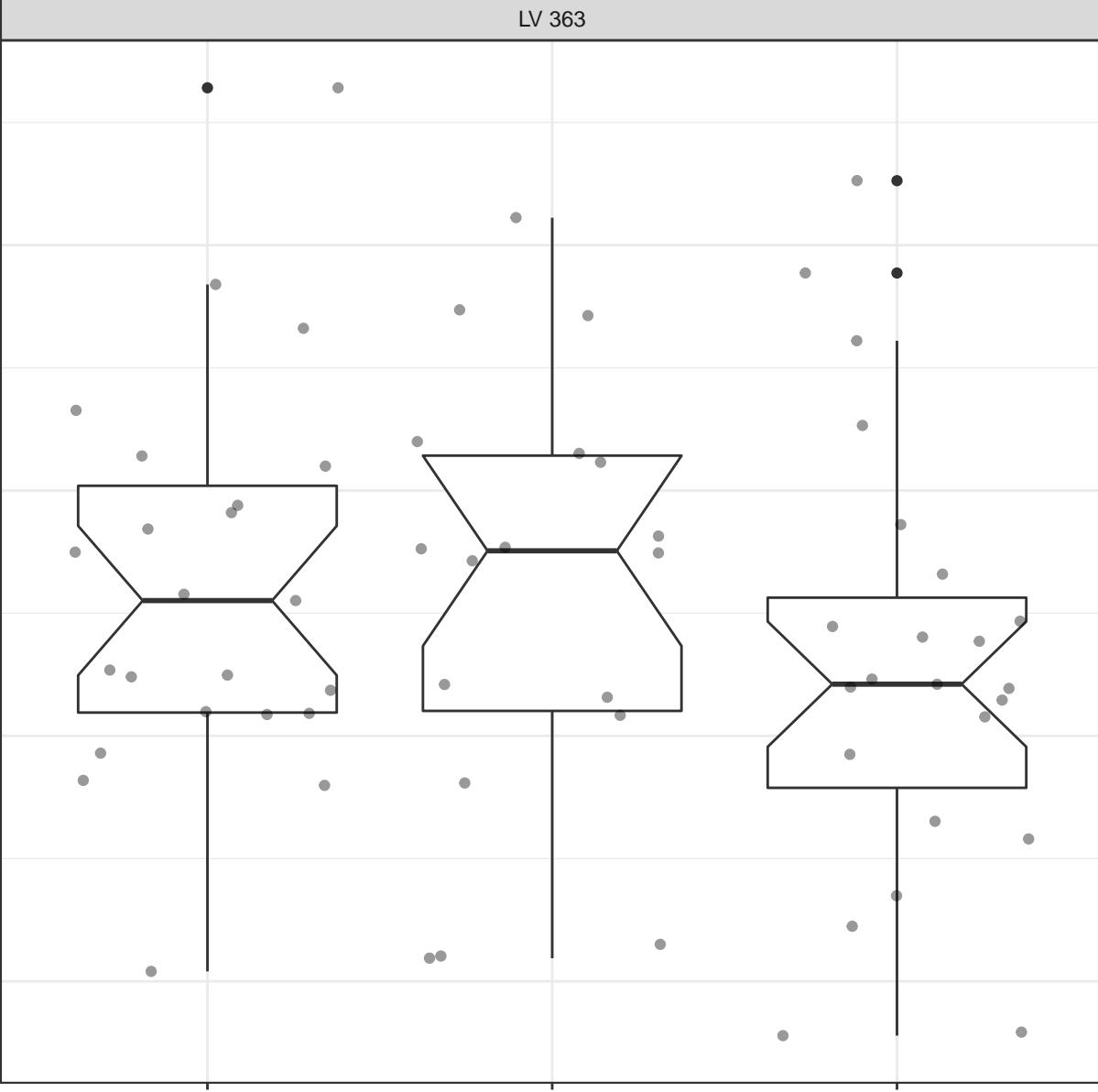
-0.02

Control

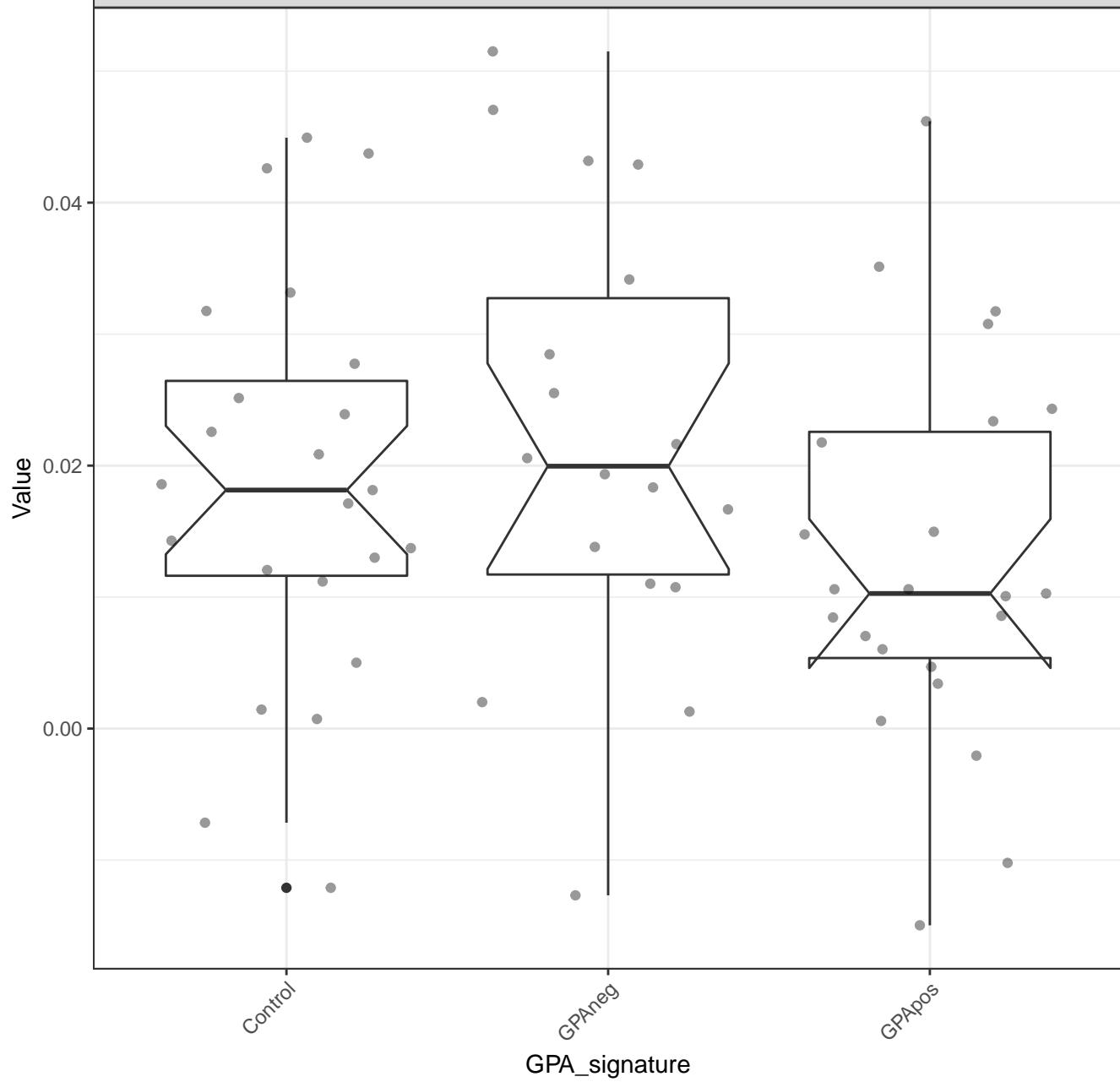
GPA\_signature

GPAneg

GPAPos



LV 364



LV 365

Value

0.03

0.02

0.01

0.00

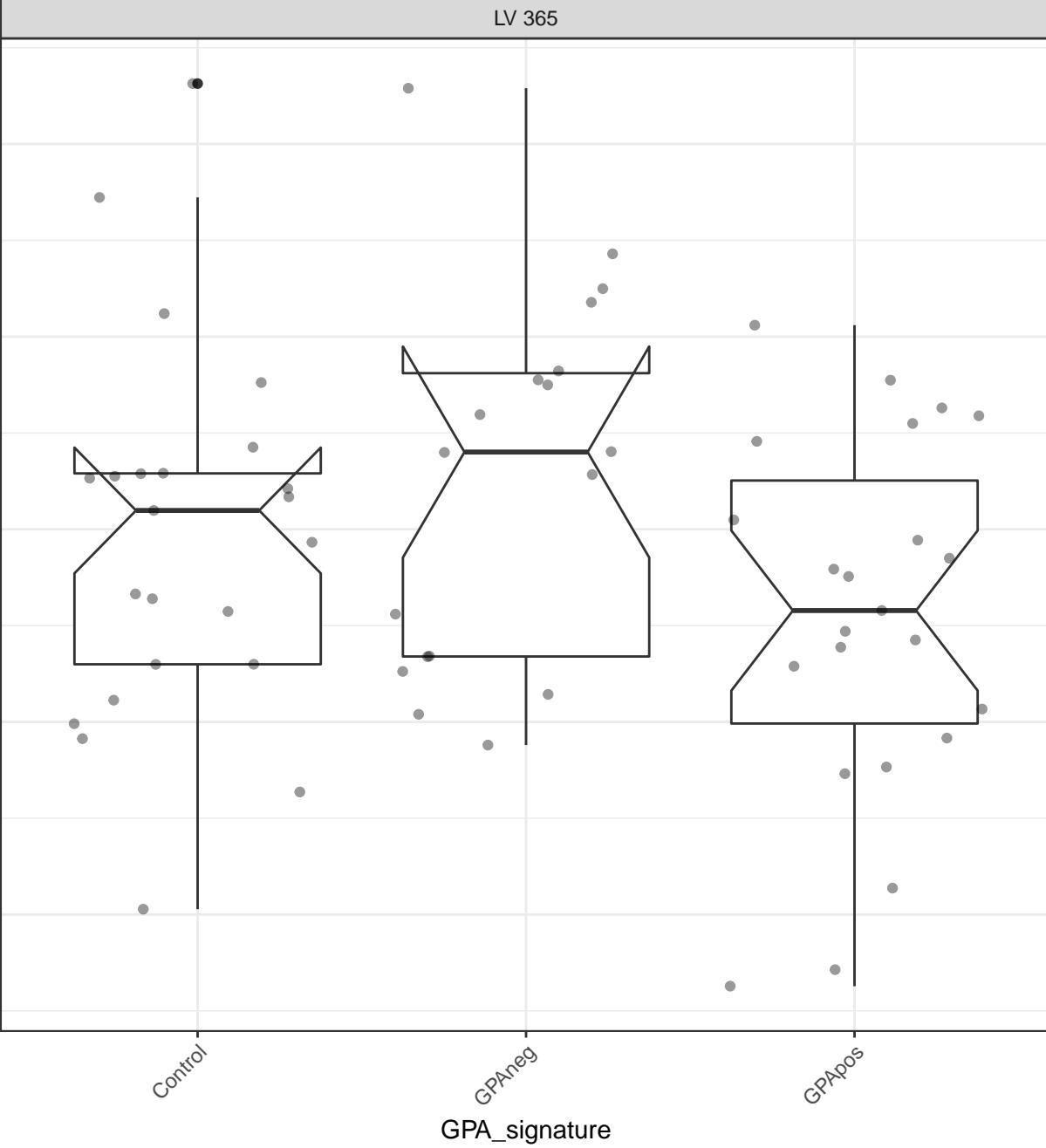
-0.01

Control

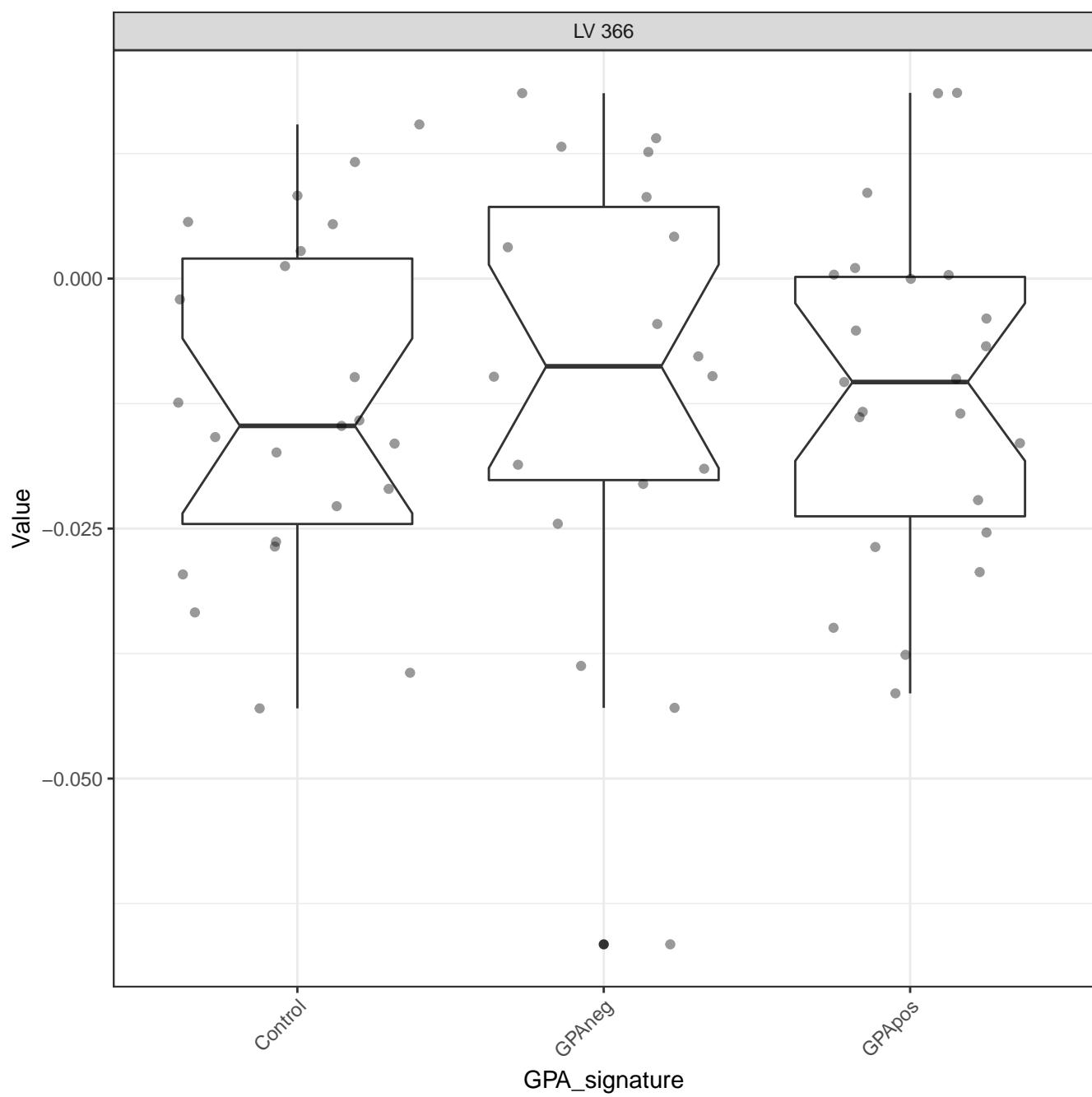
GPAneg

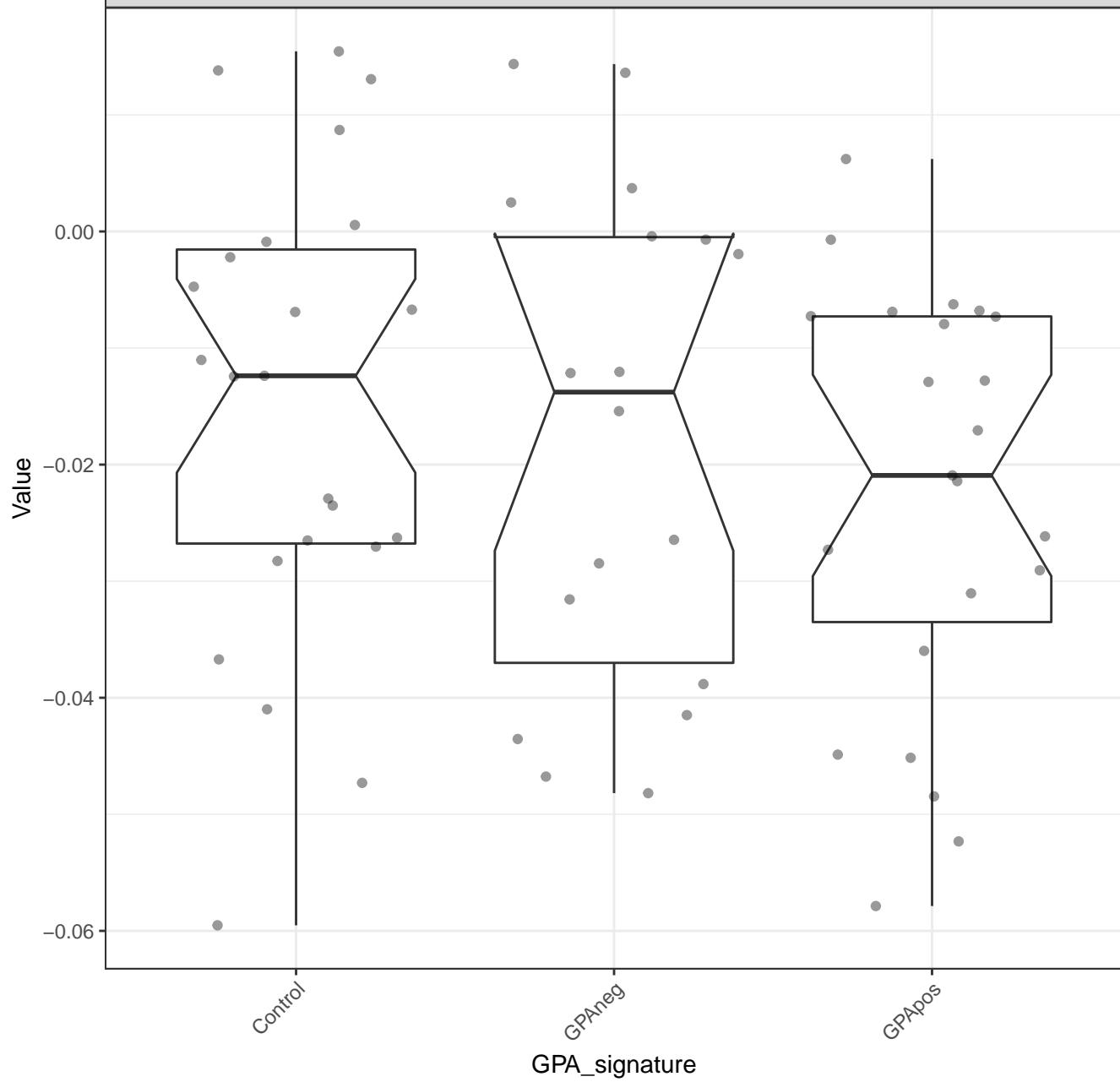
GPApos

GPA\_signature

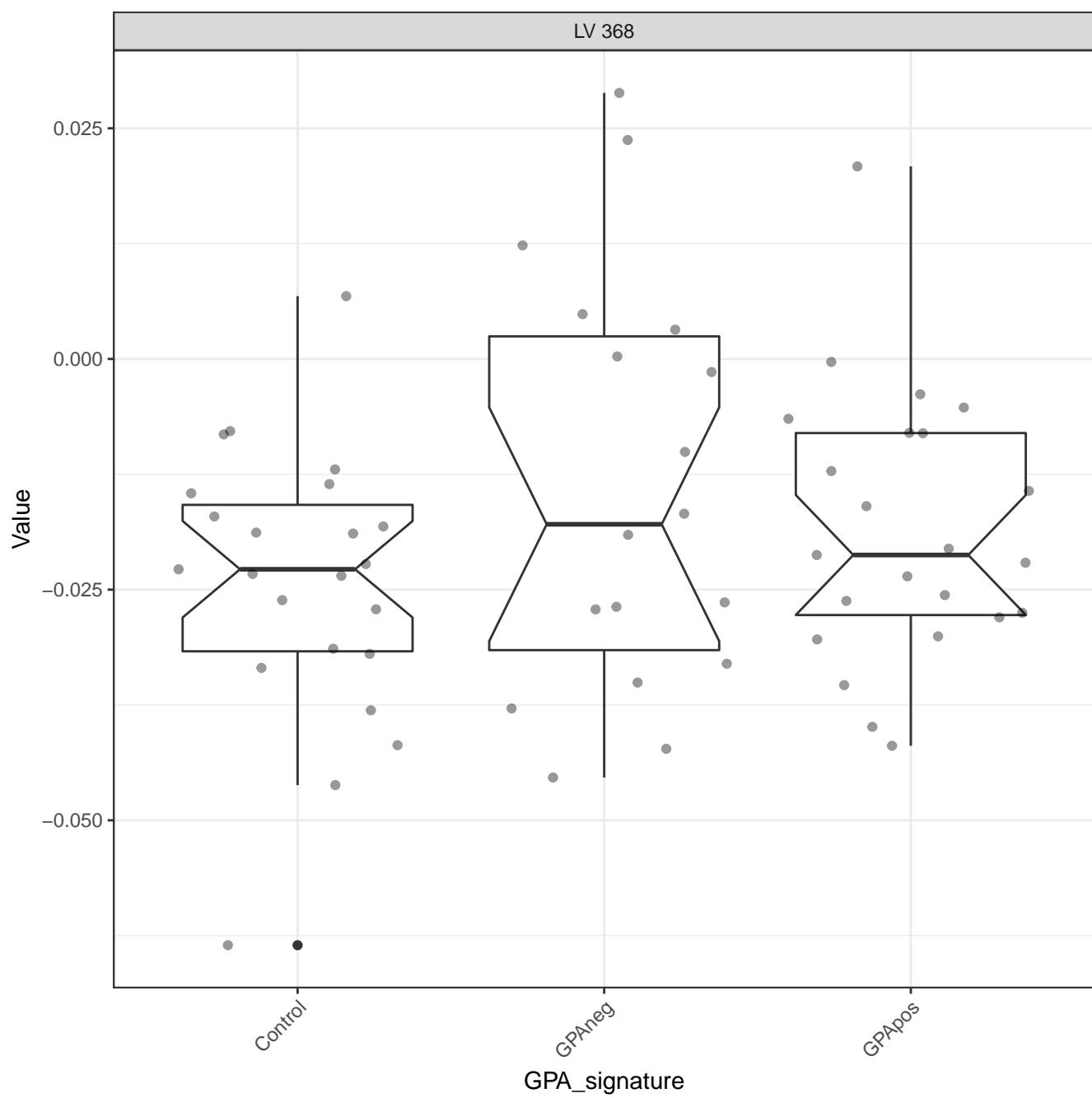


## LV 366





## LV 368



## LV 369

Value

0.050

0.025

0.000

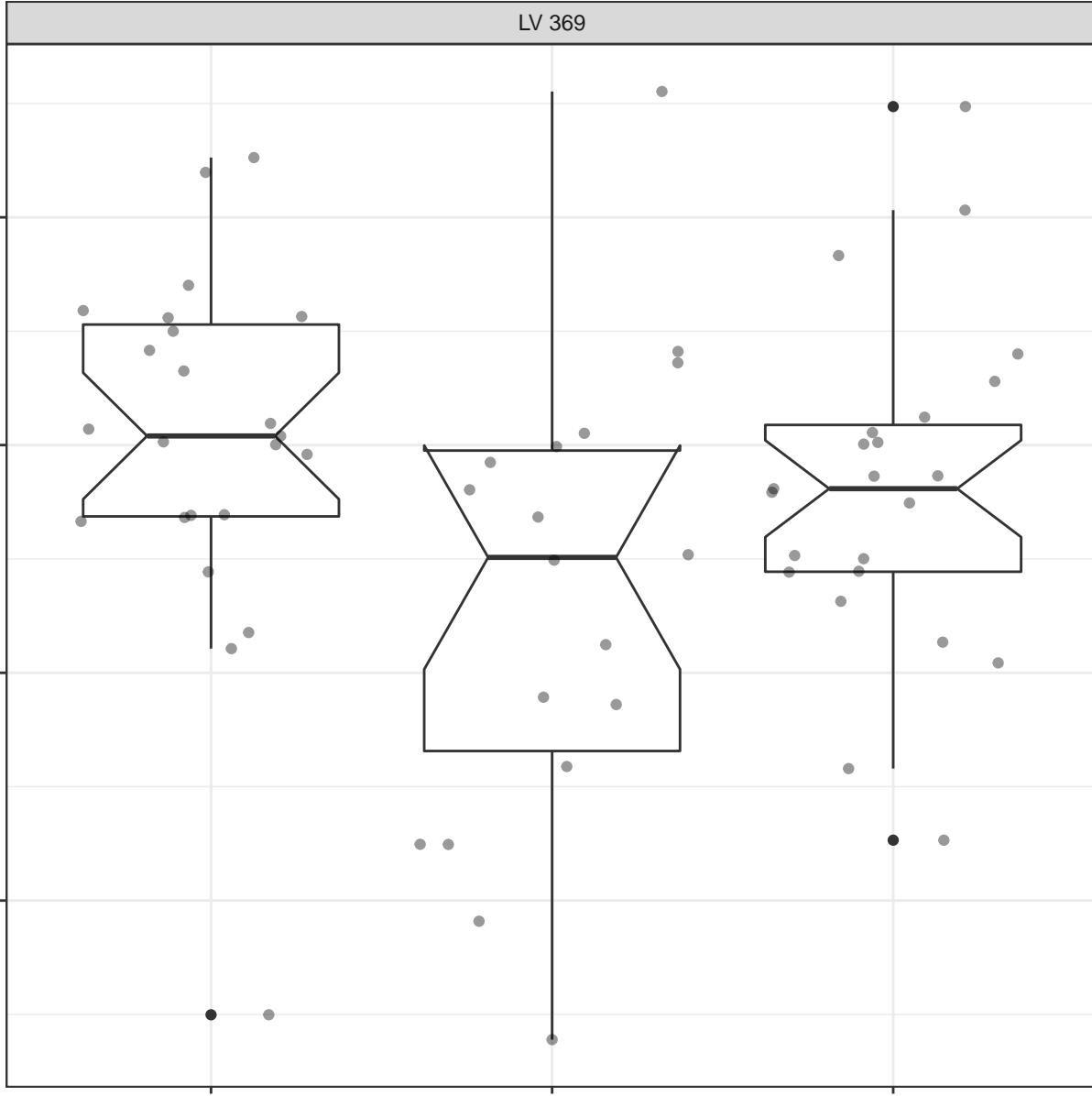
-0.025

Control

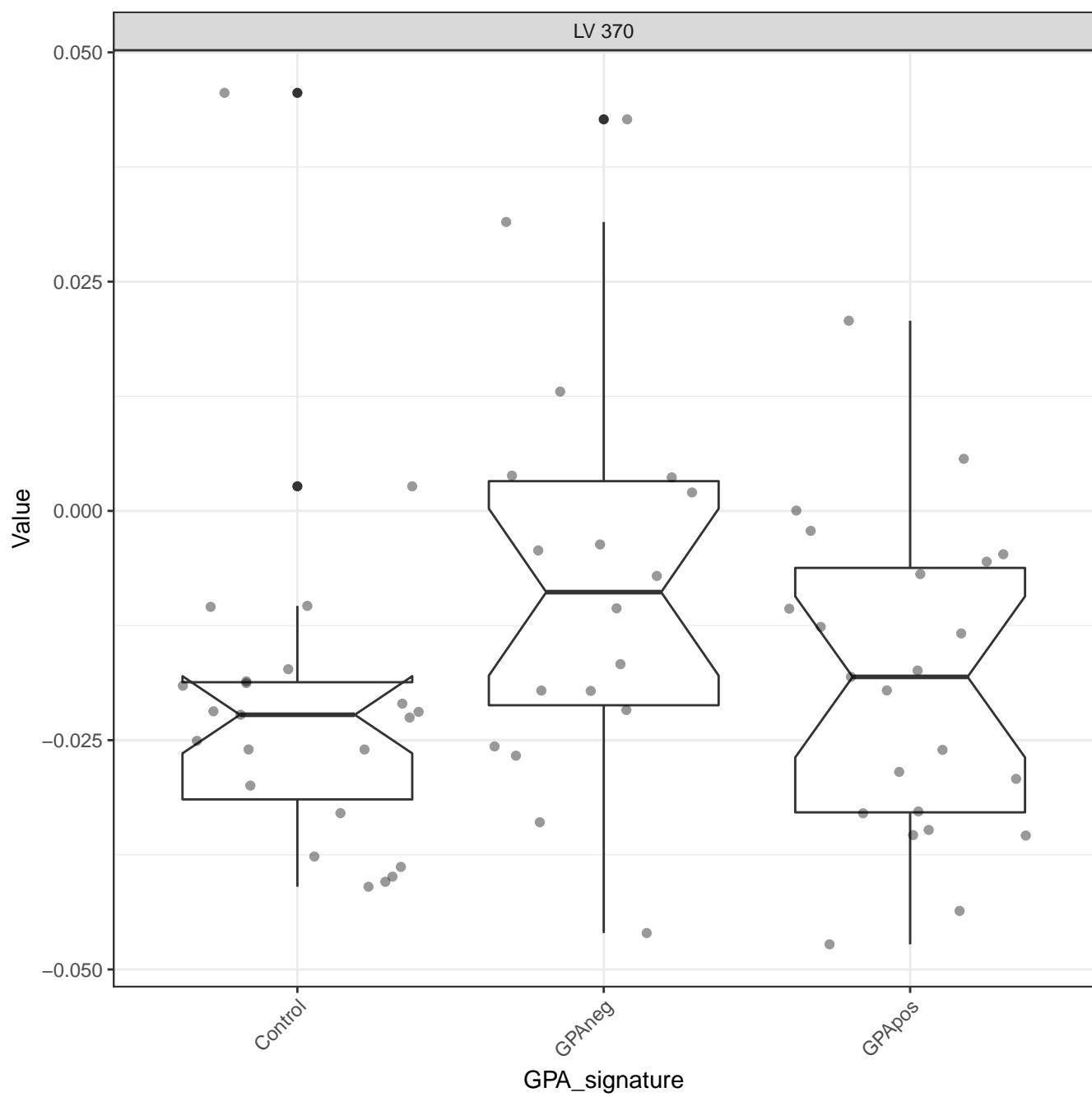
GPA\_signature

GPAneg

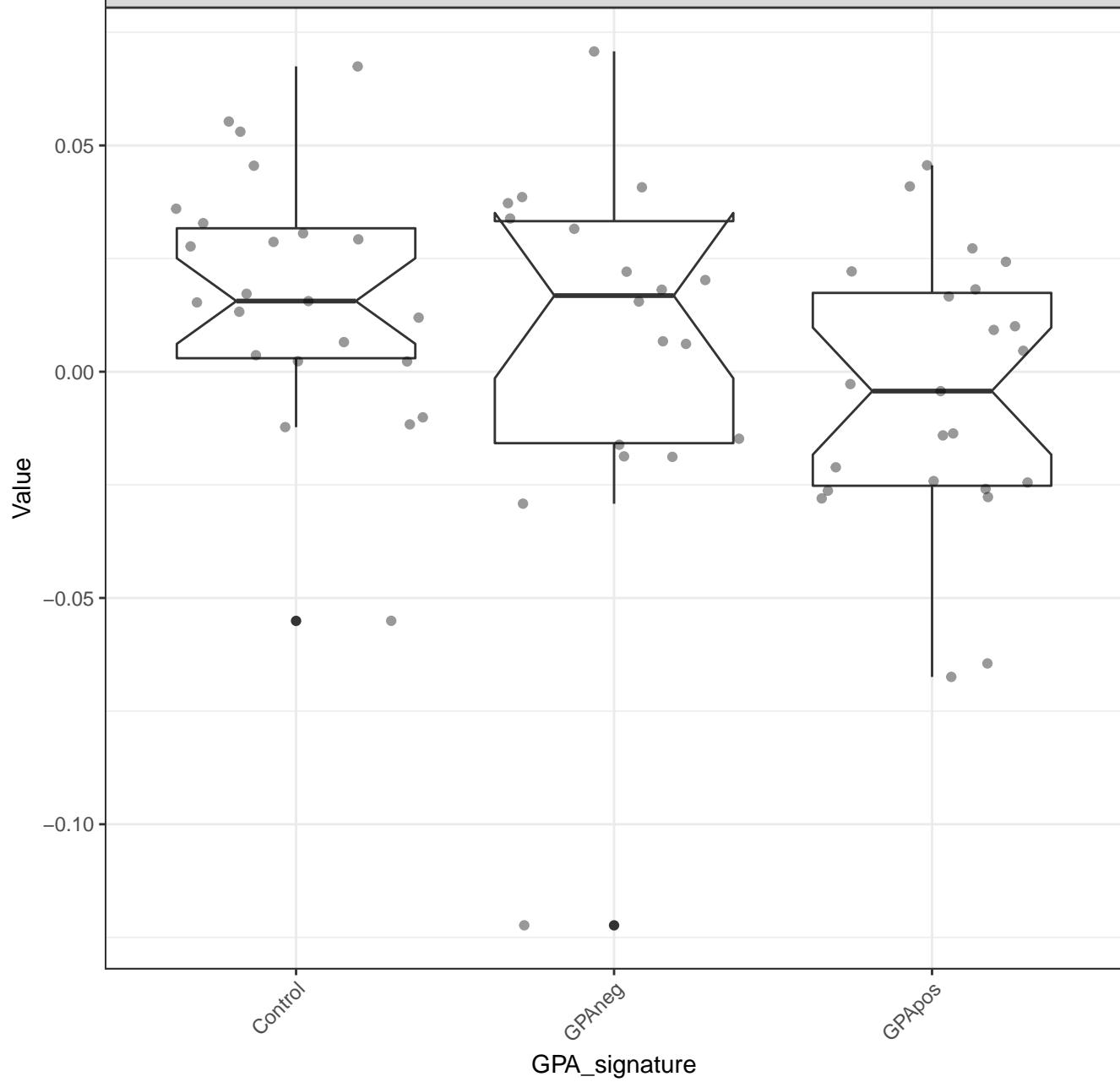
GPAPos

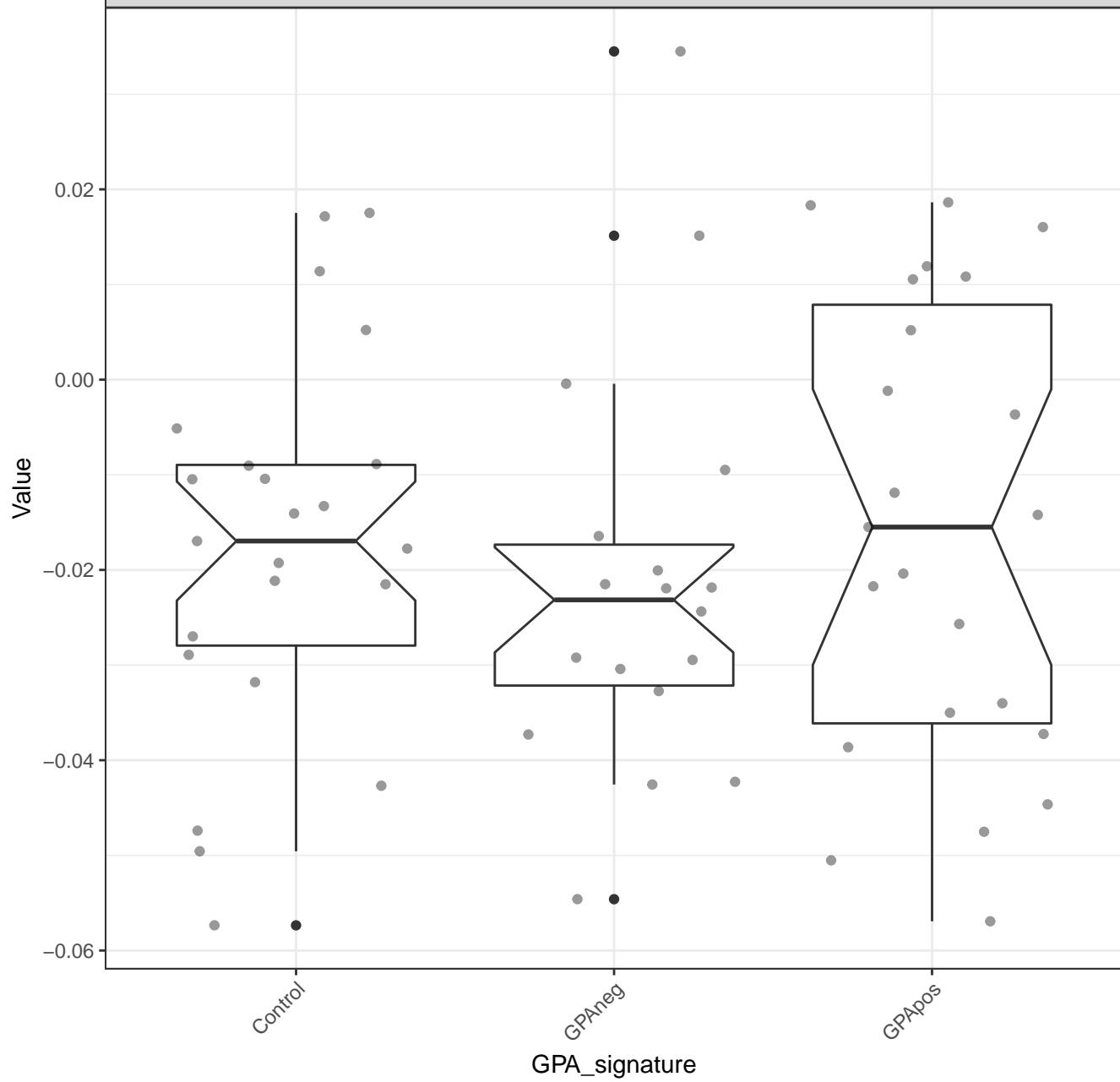


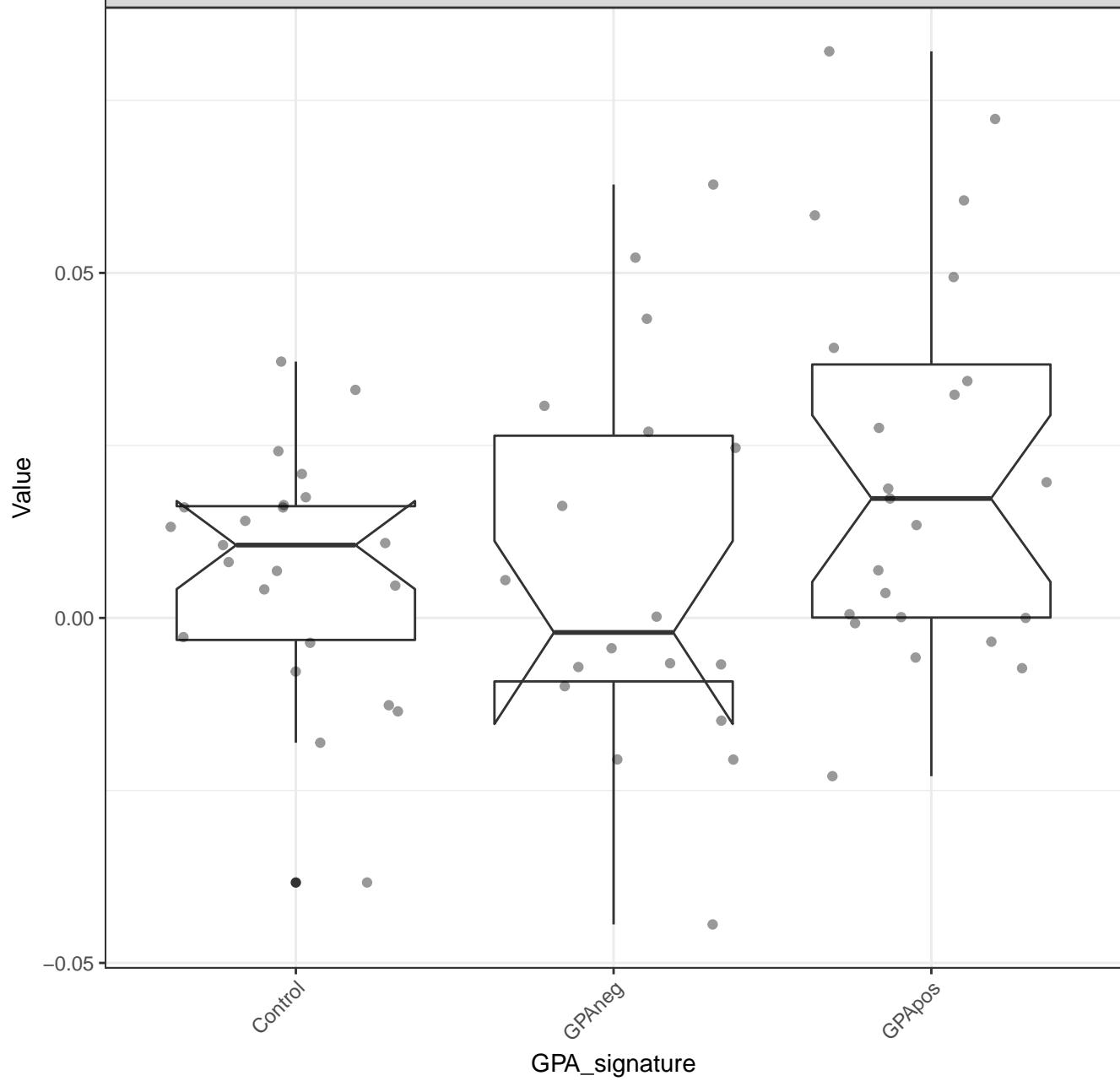
LV 370



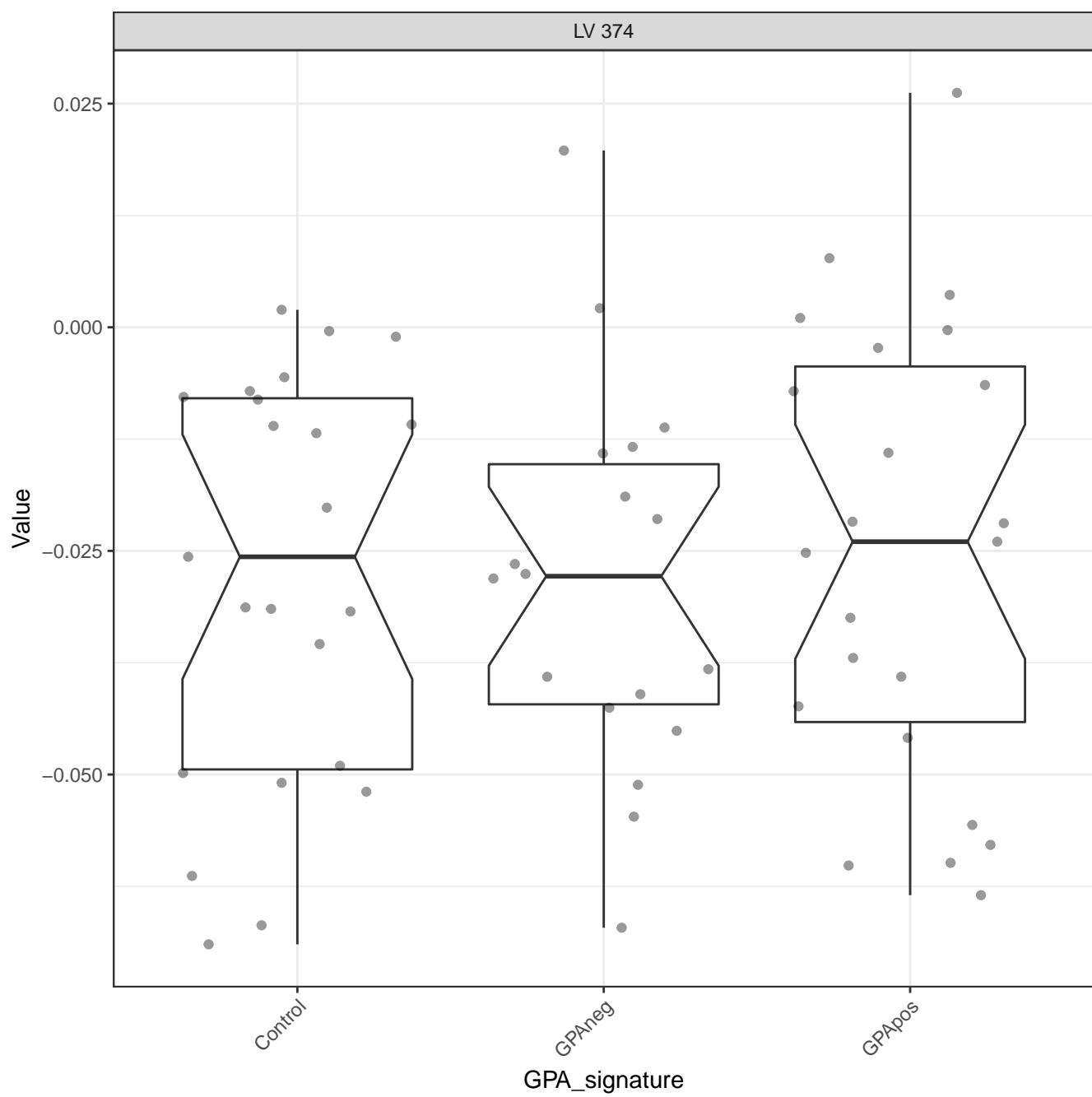
LV 371



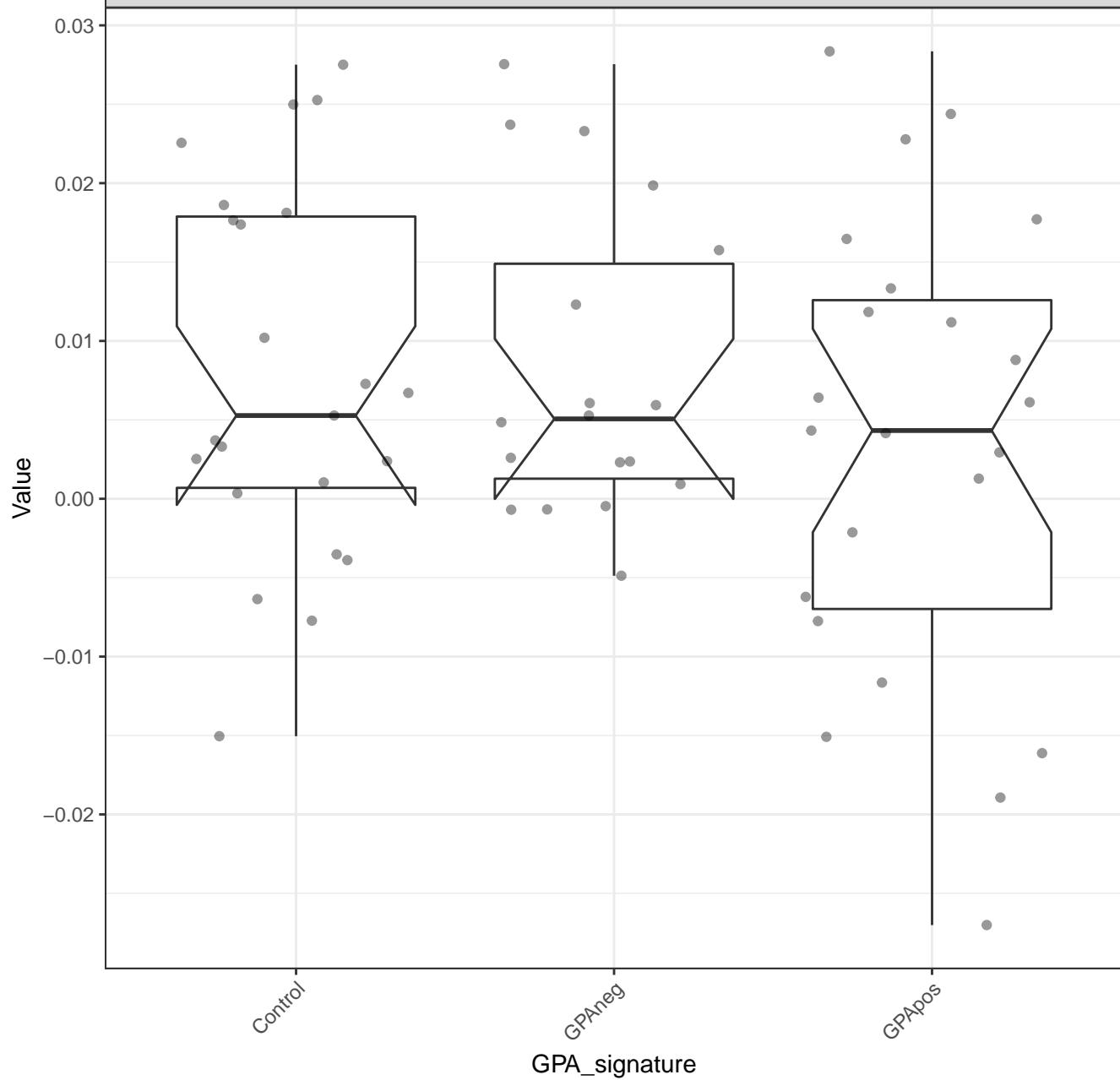




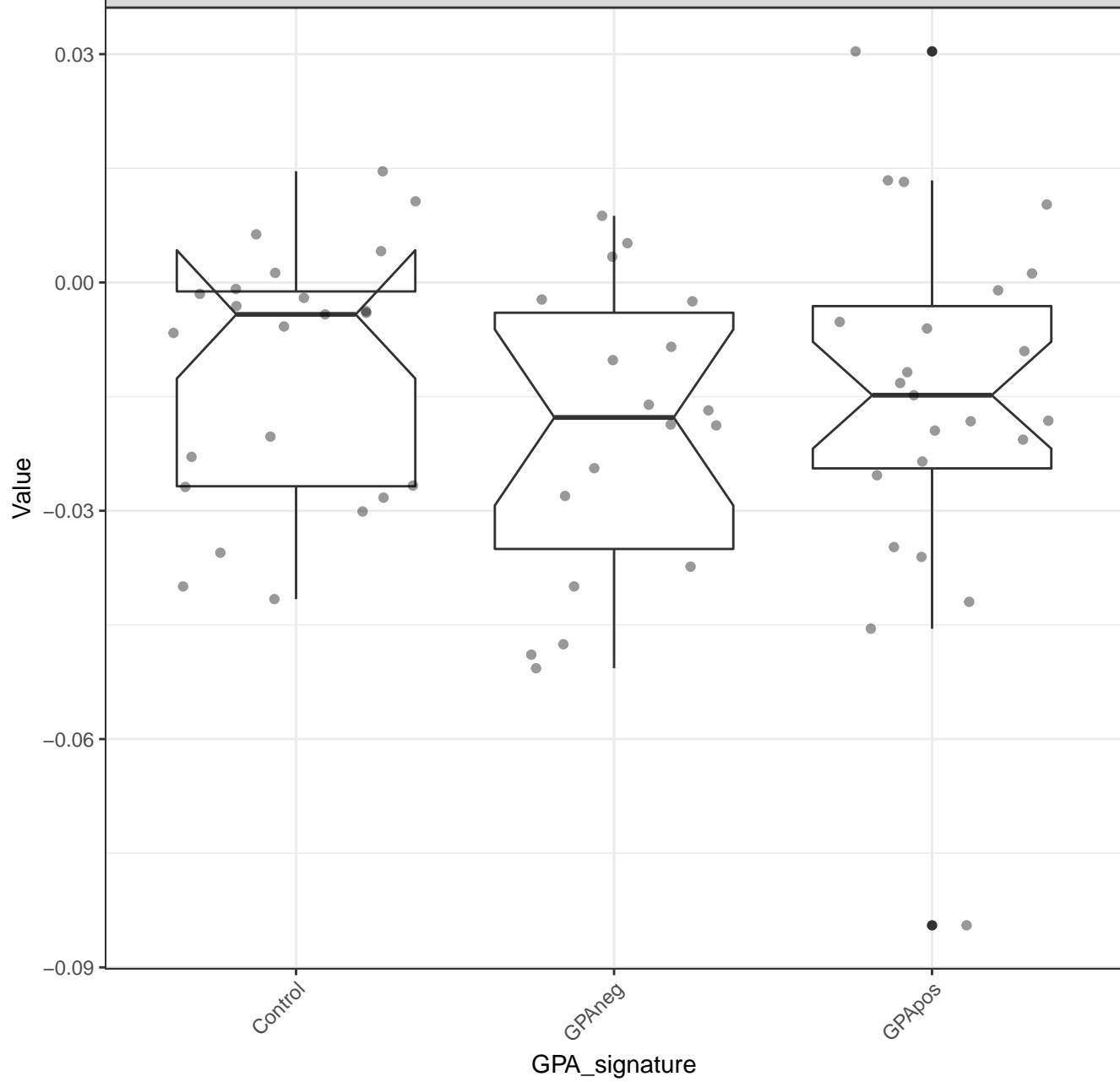
## LV 374



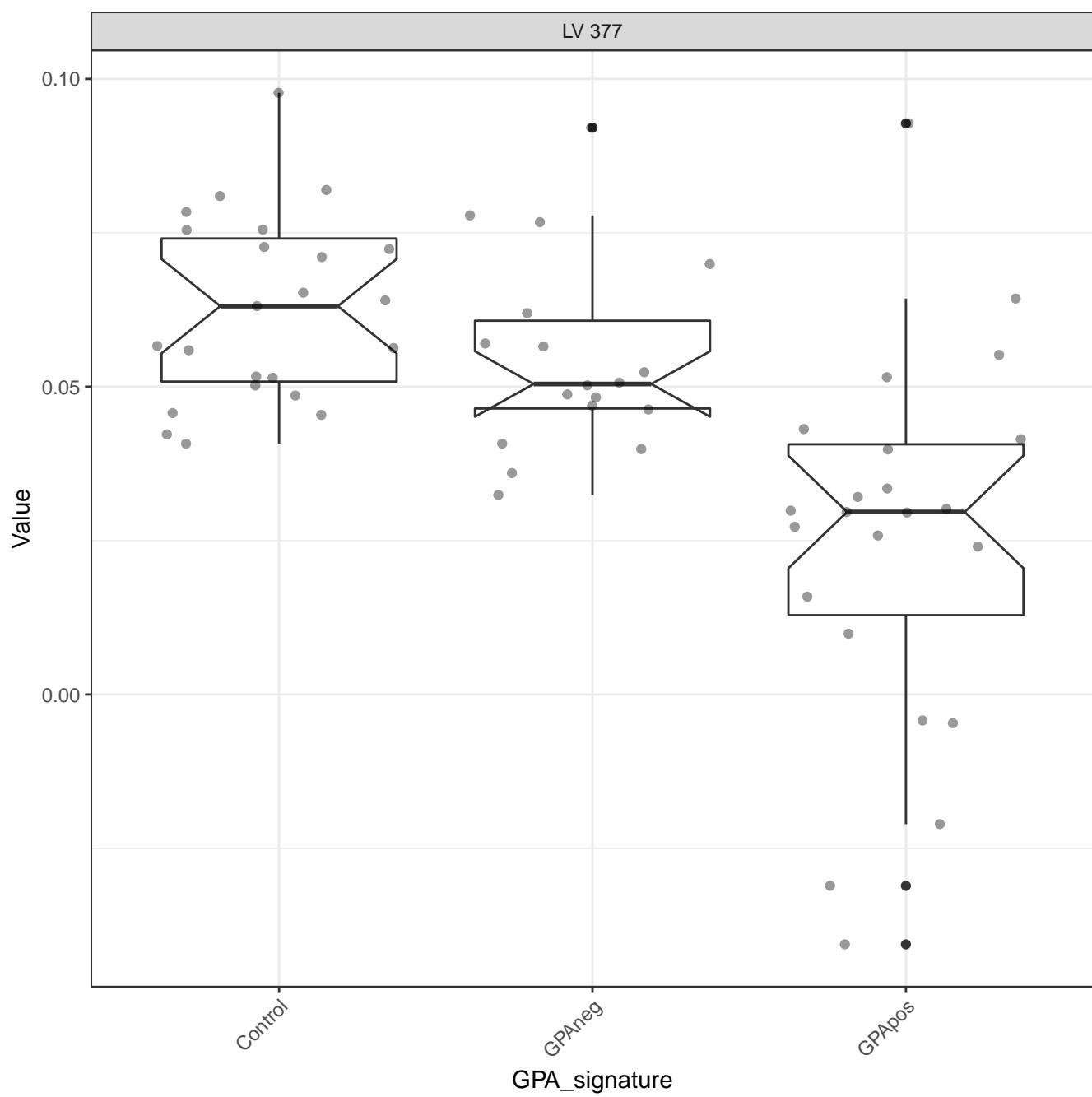
LV 375



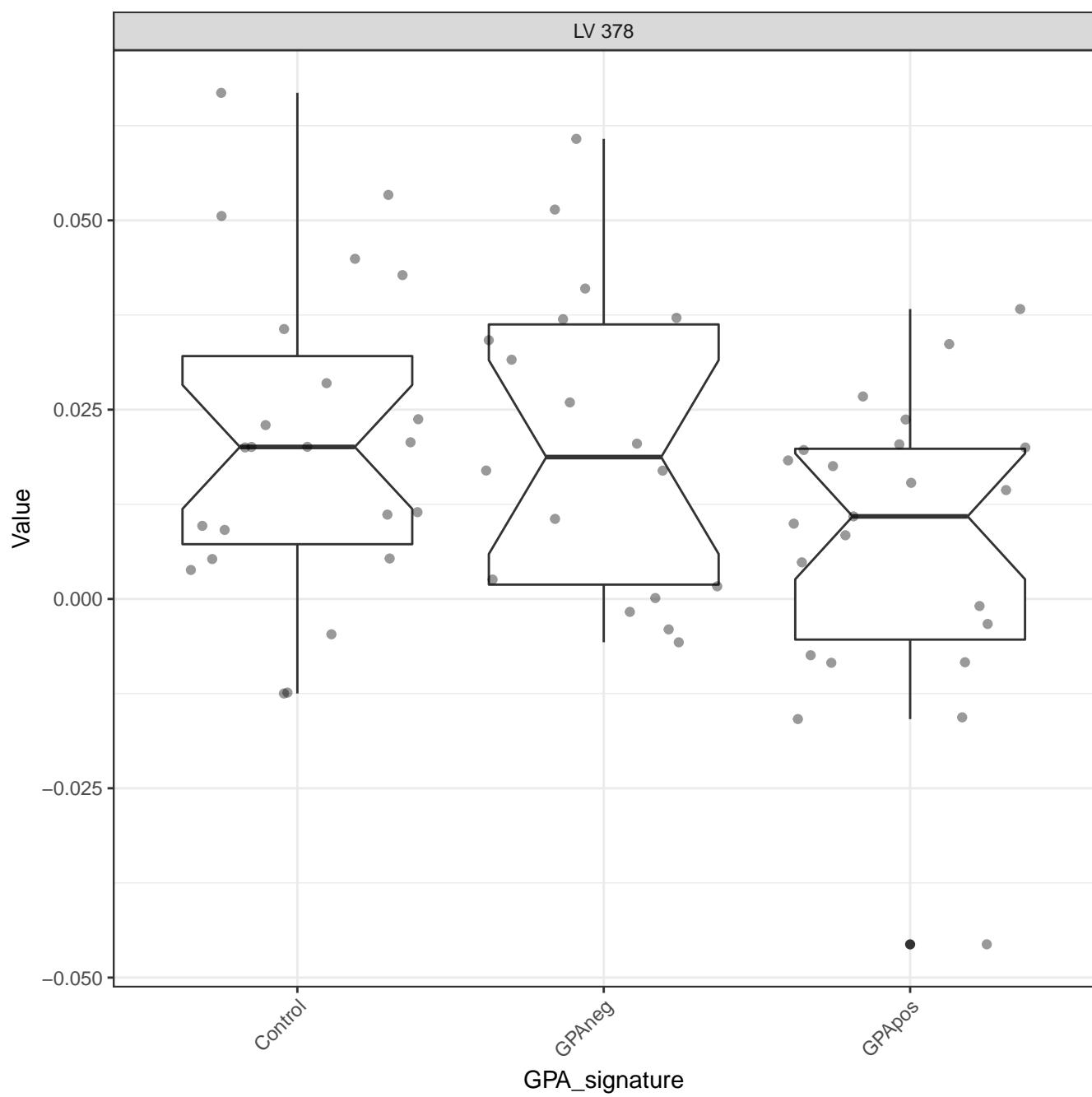
LV 376

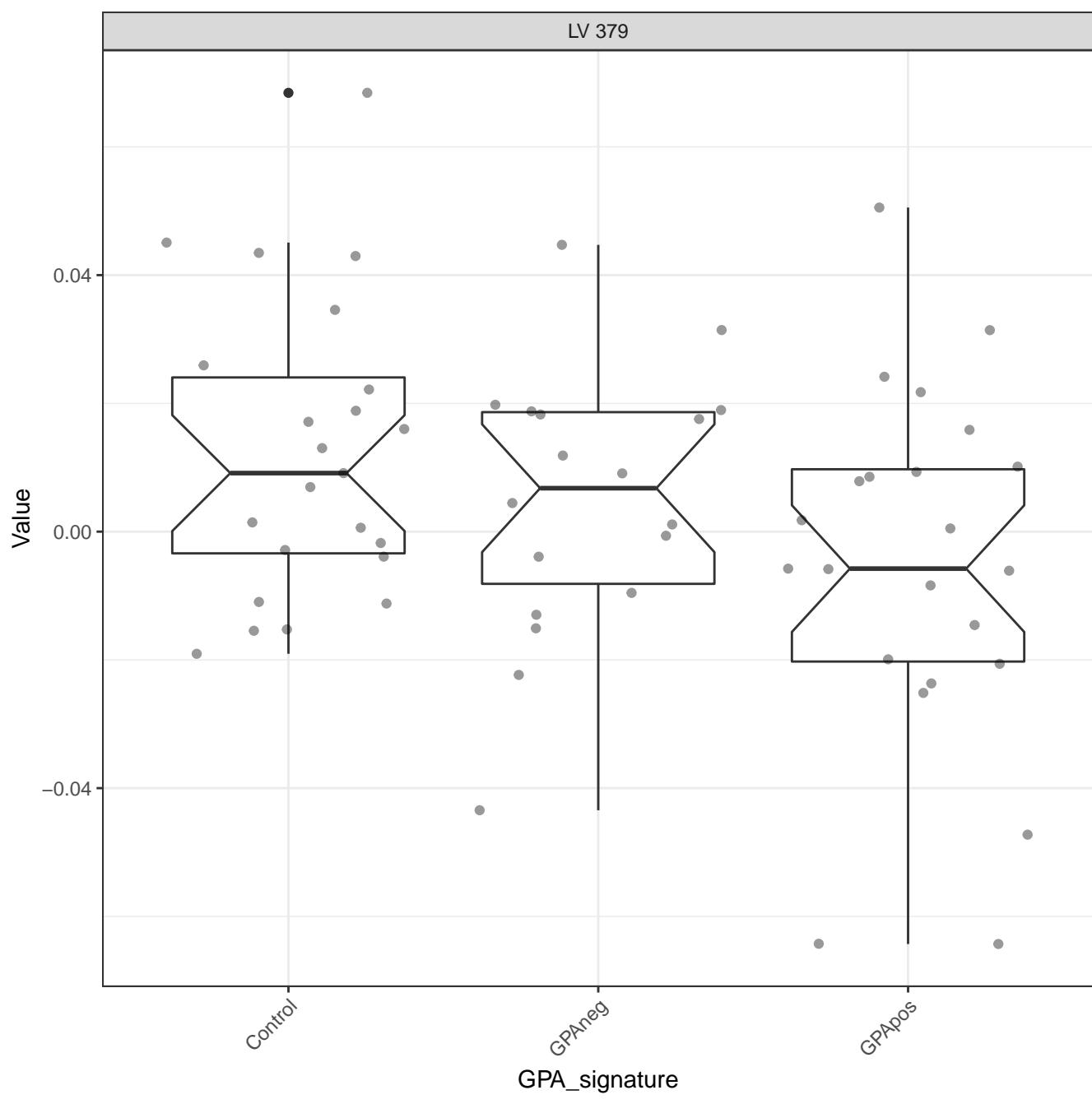


LV 377

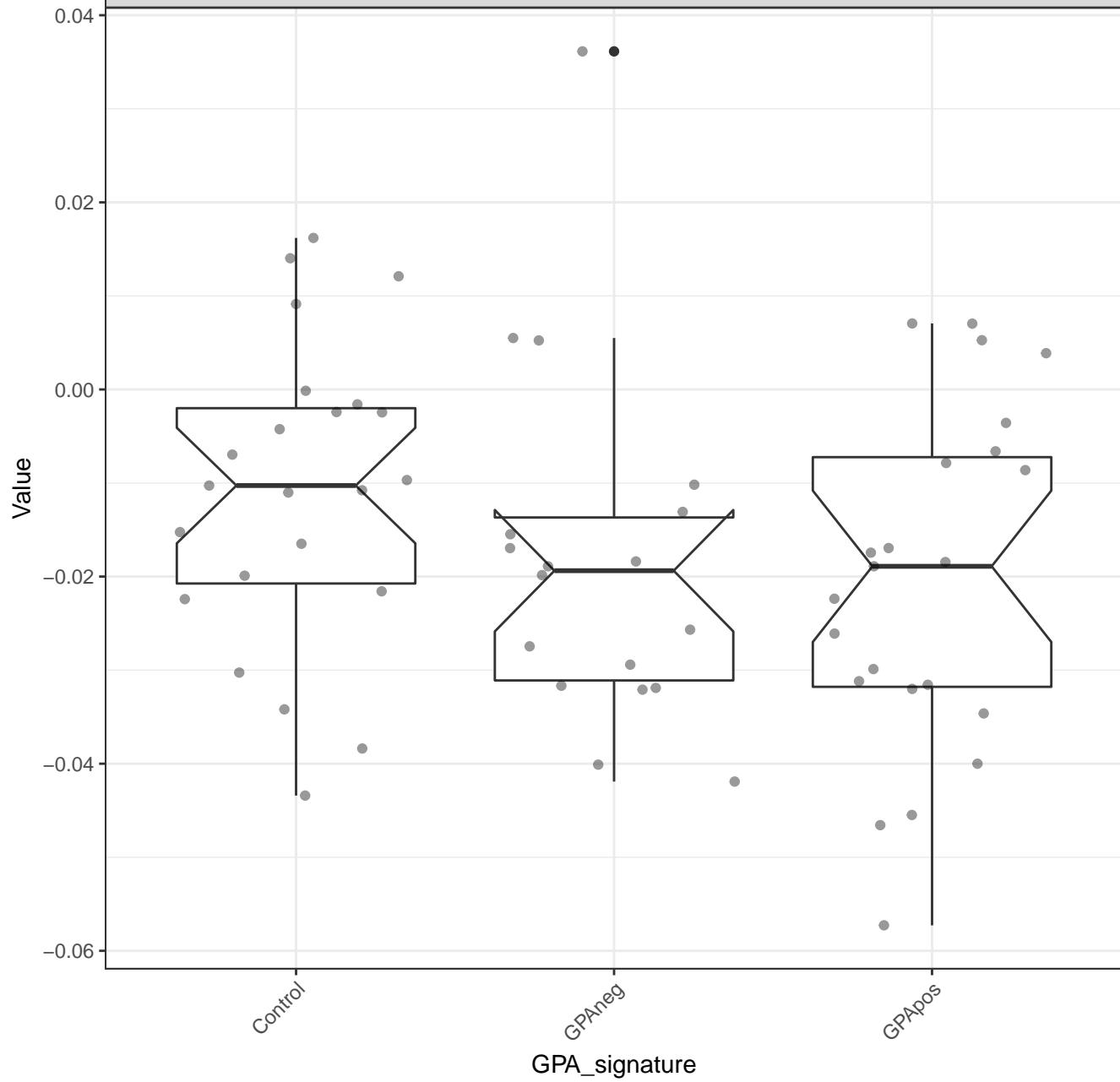


## LV 378

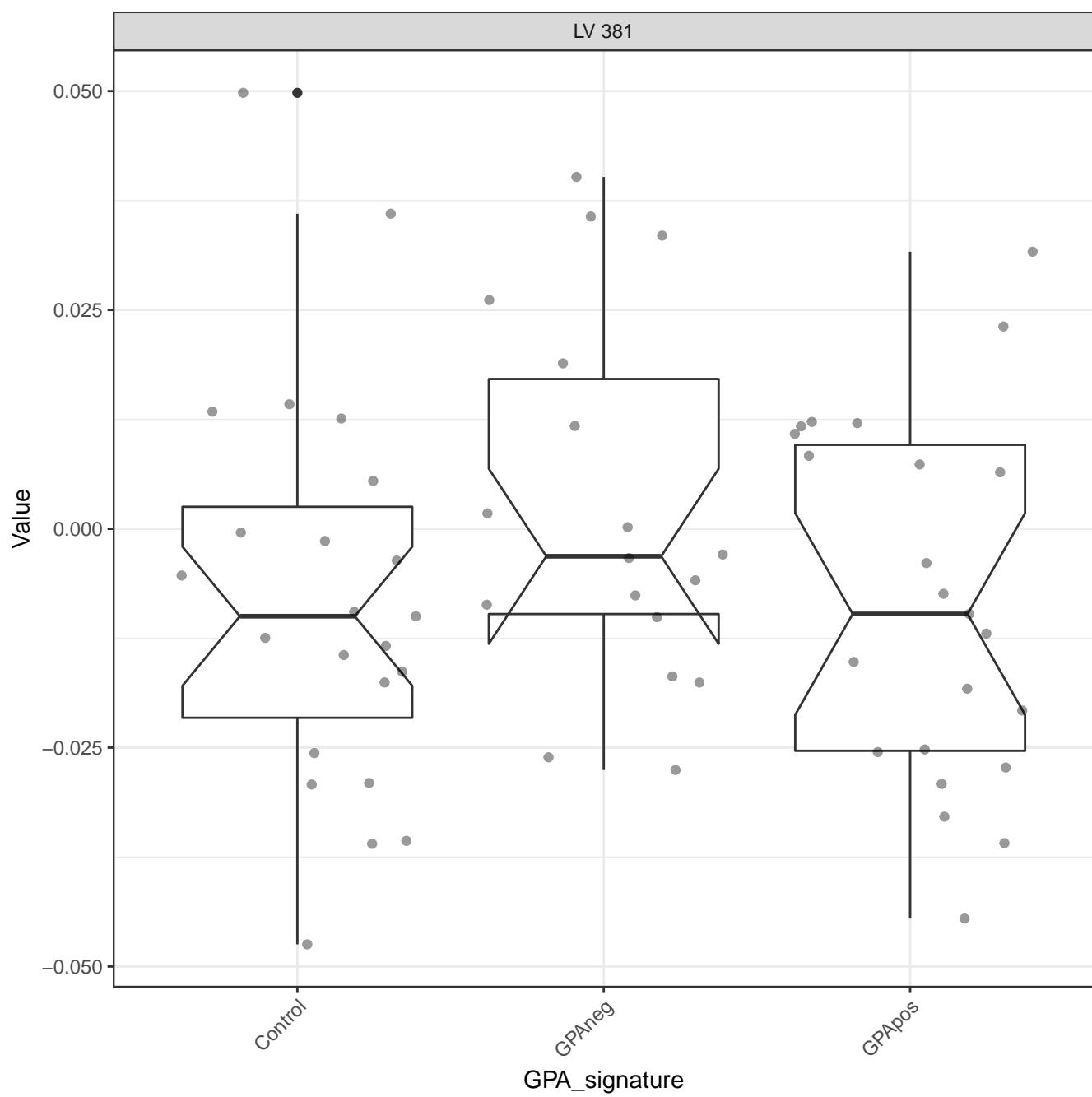




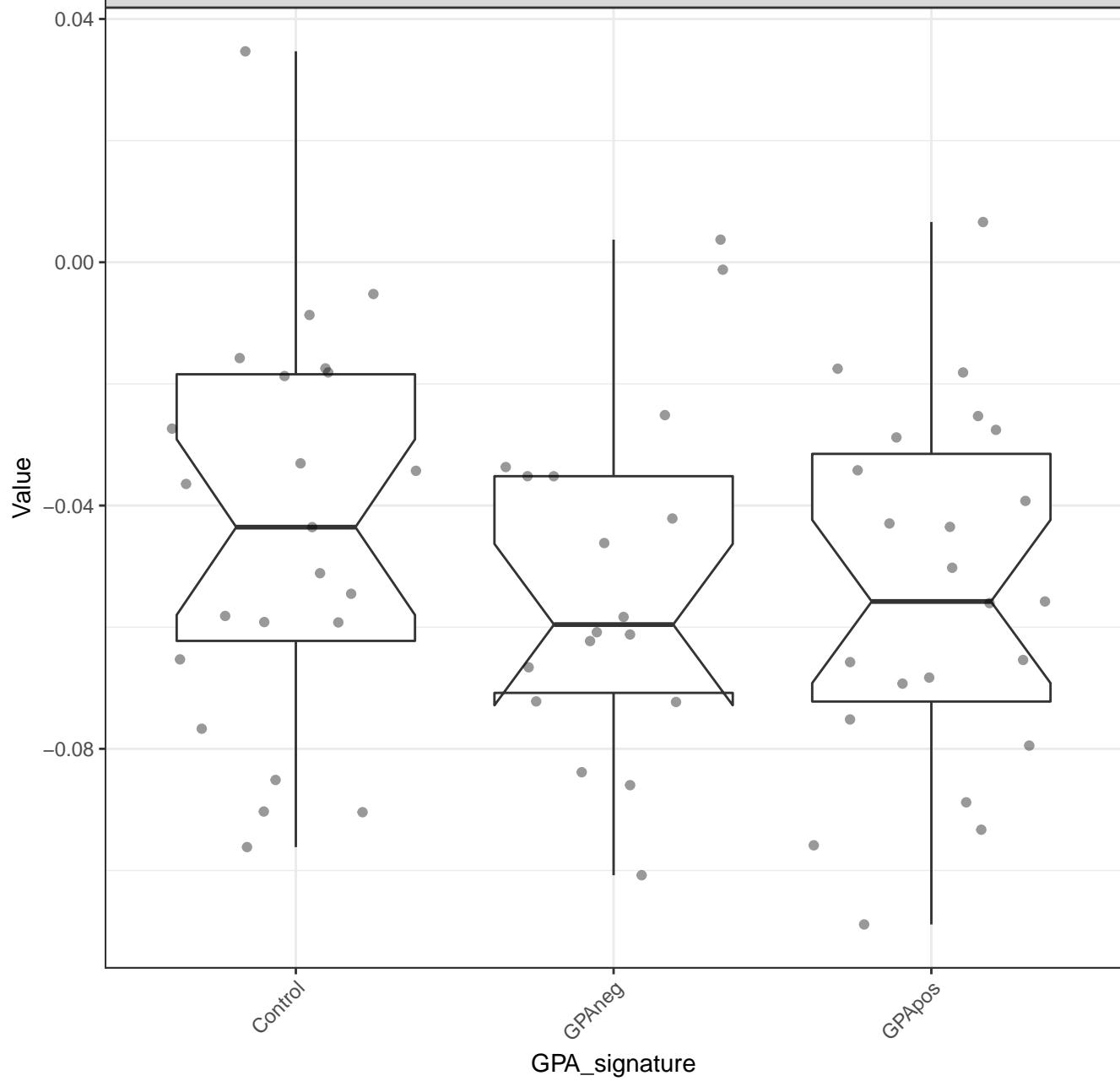
LV 380



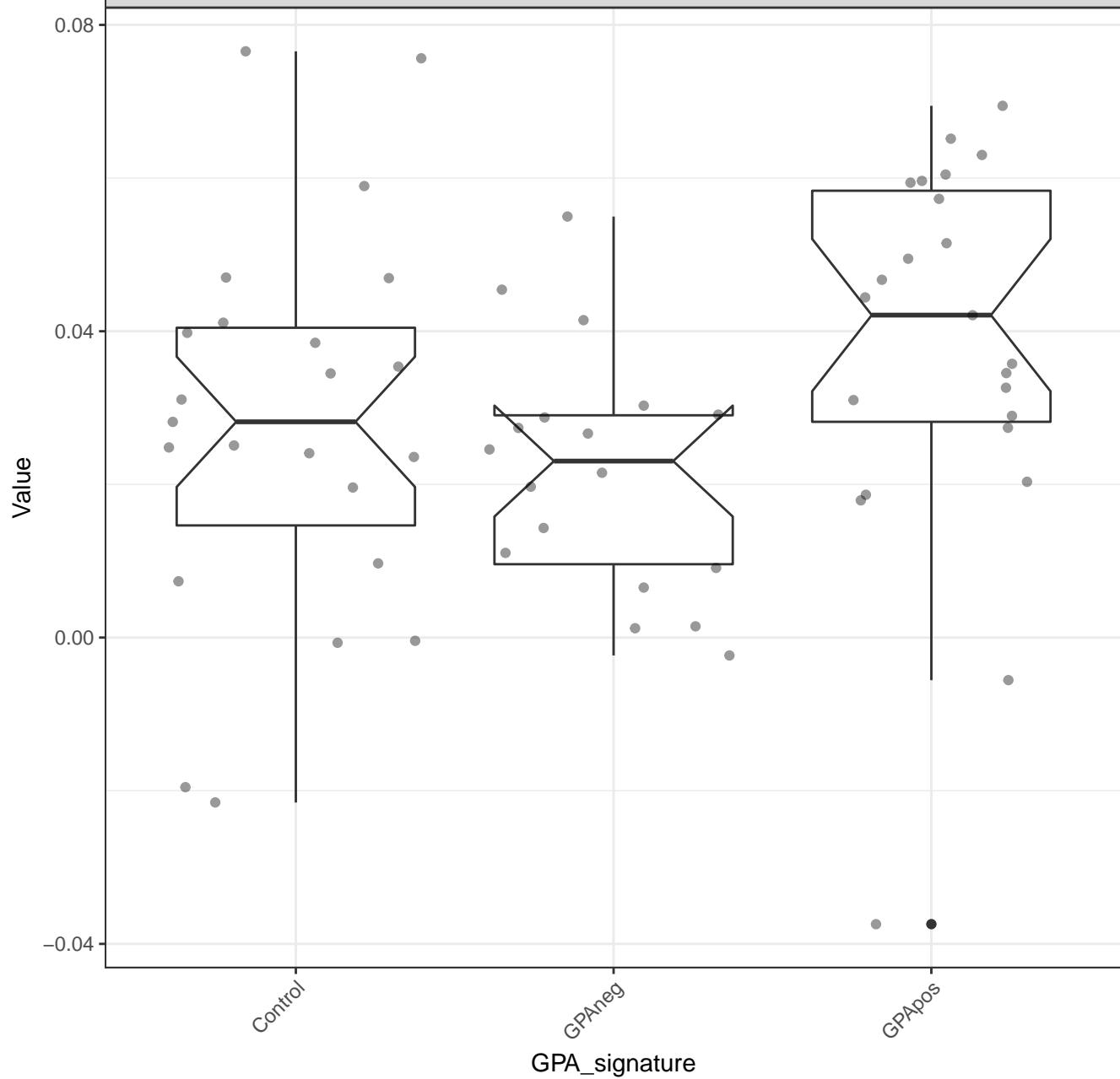
## LV 381



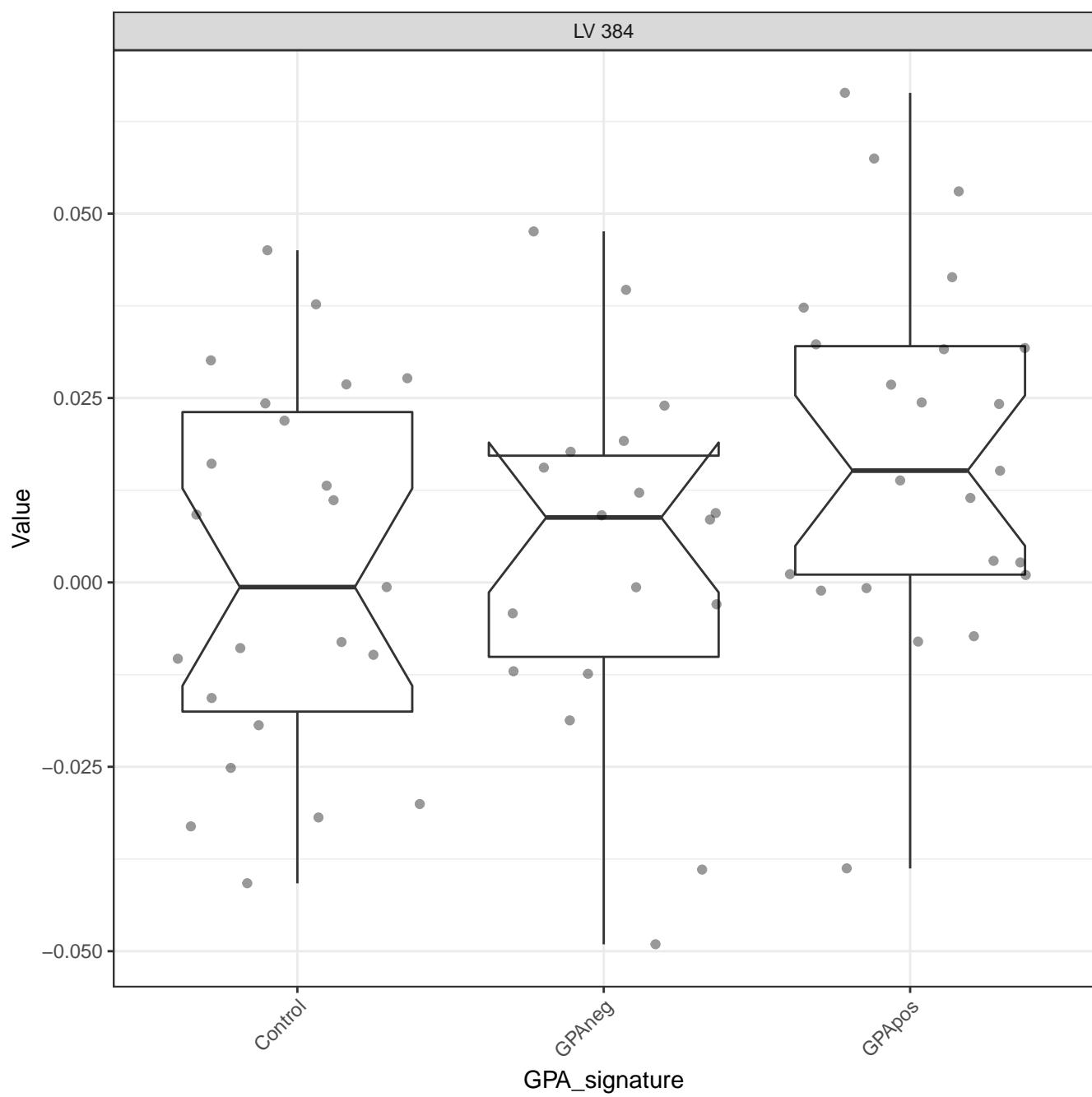
LV 382



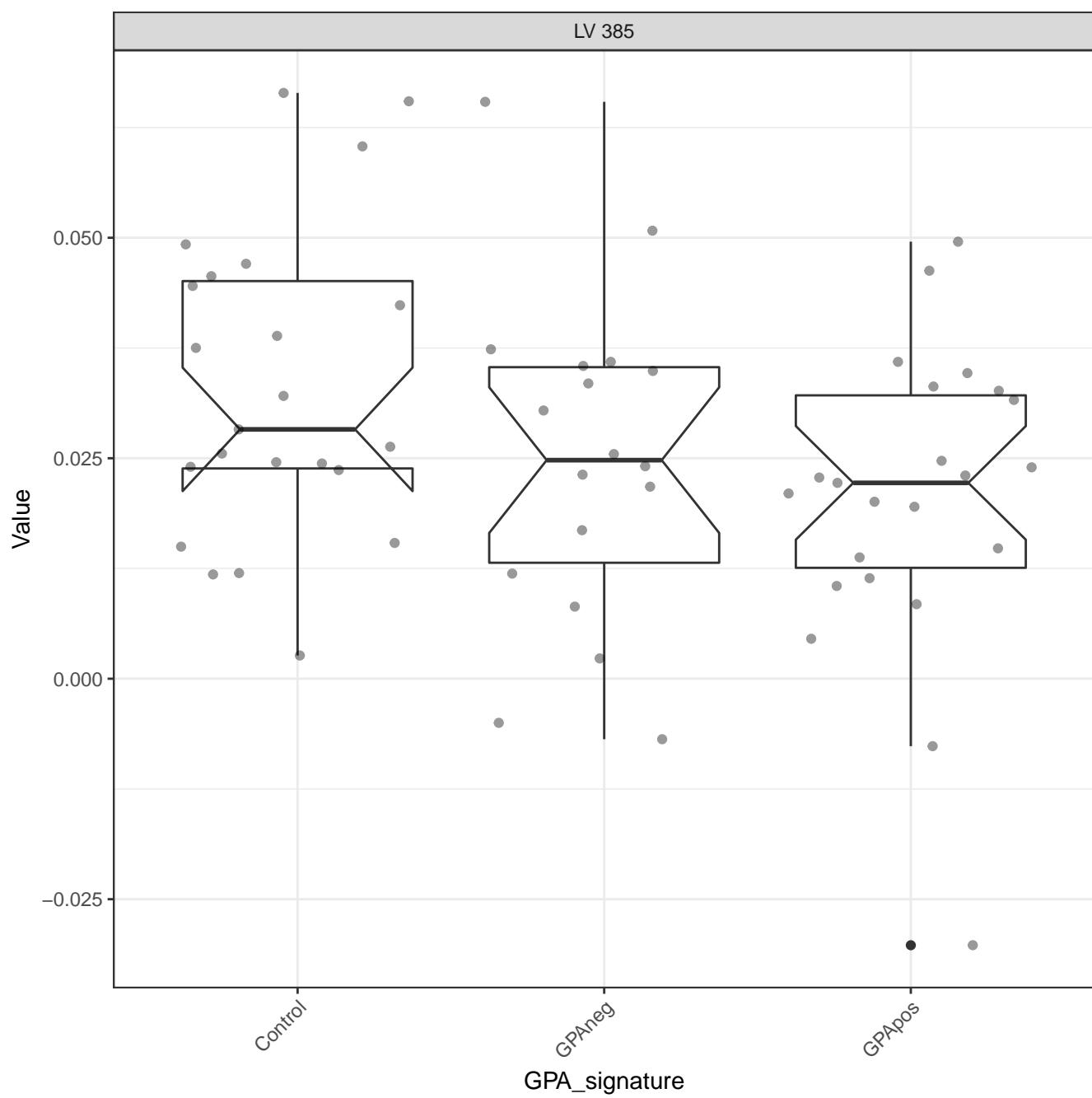
LV 383



## LV 384



## LV 385



LV 386

Value

0.050

0.025

0.000

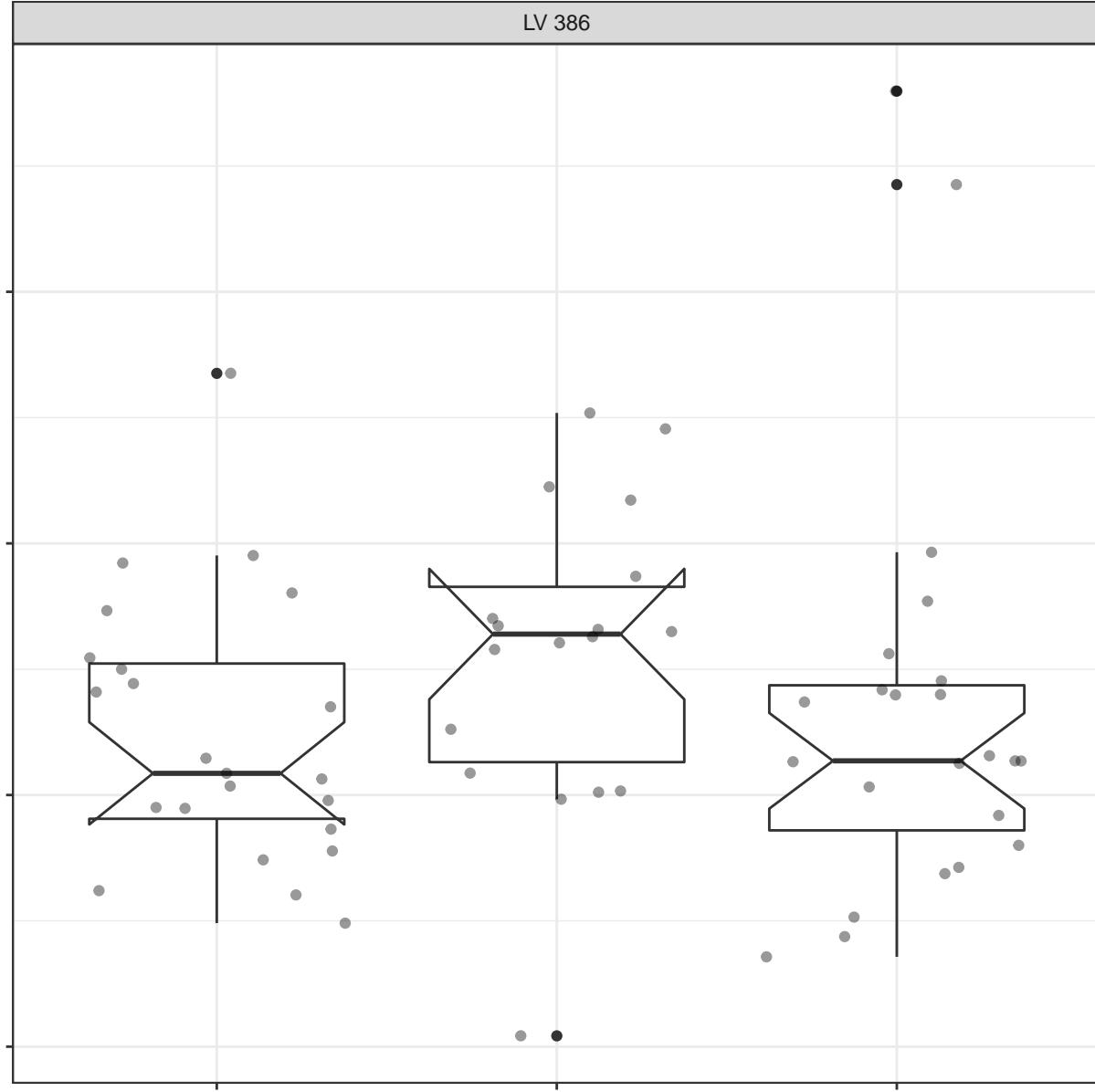
-0.025

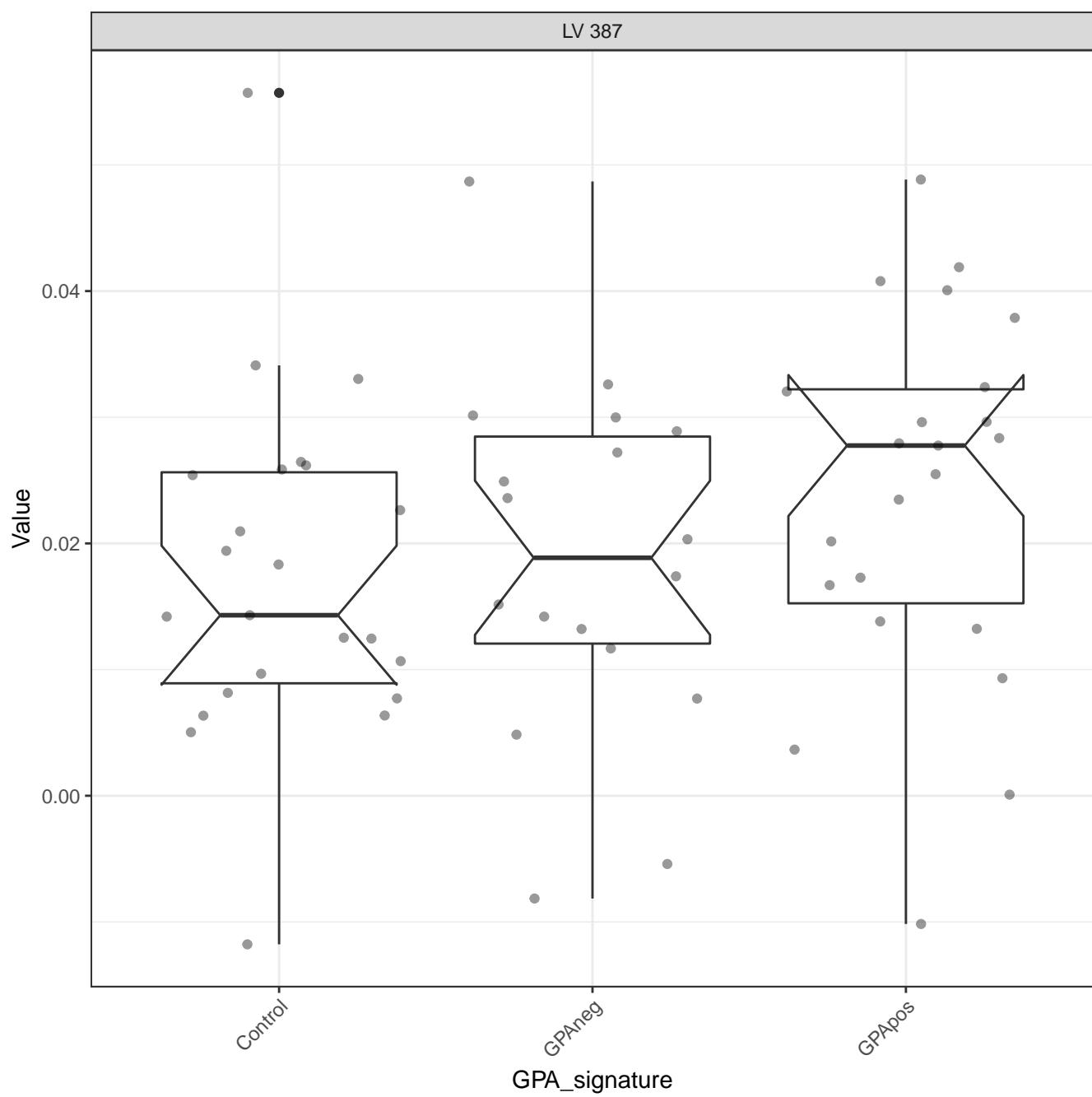
Control

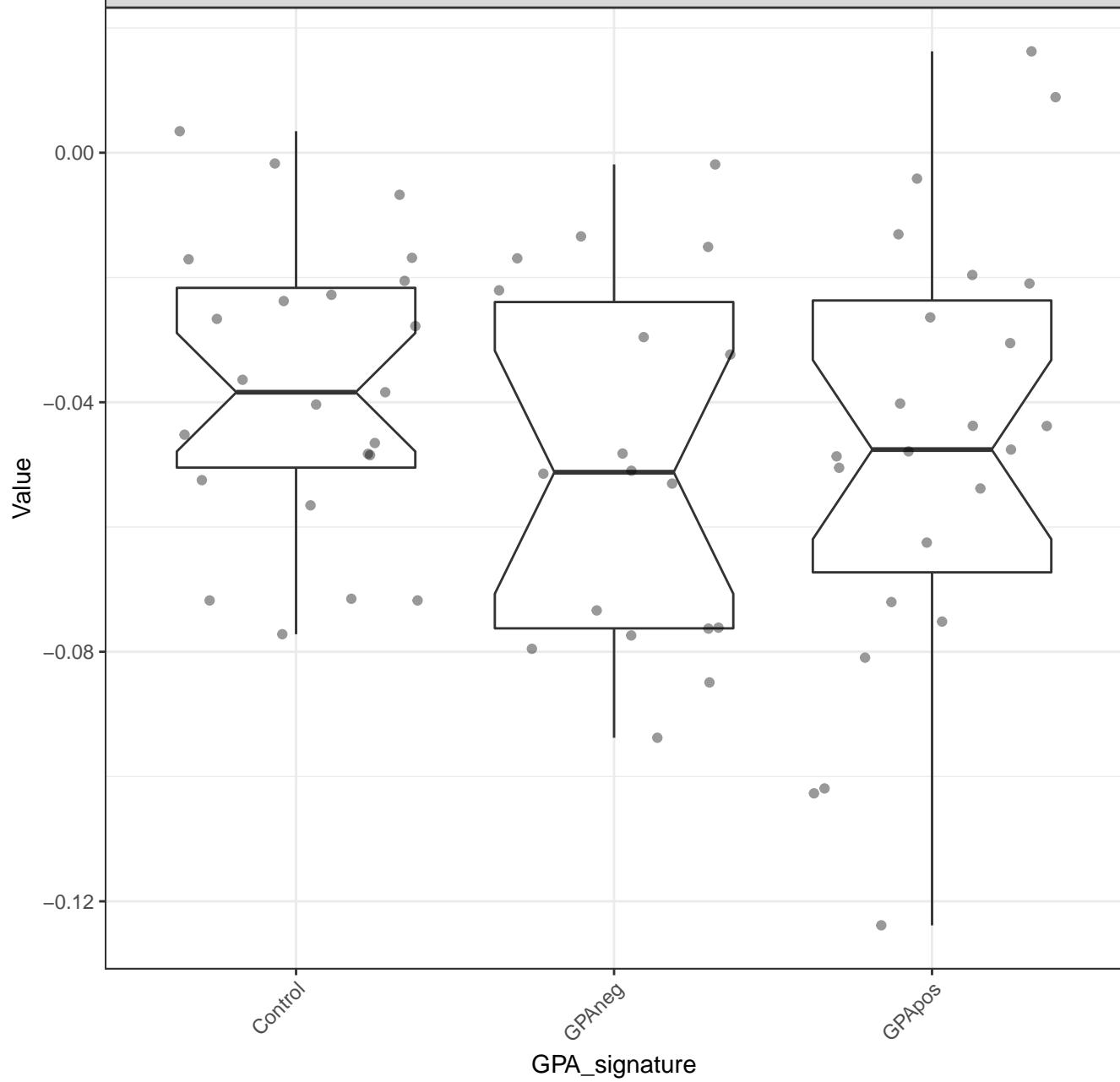
GPA\_signature

GPAneg

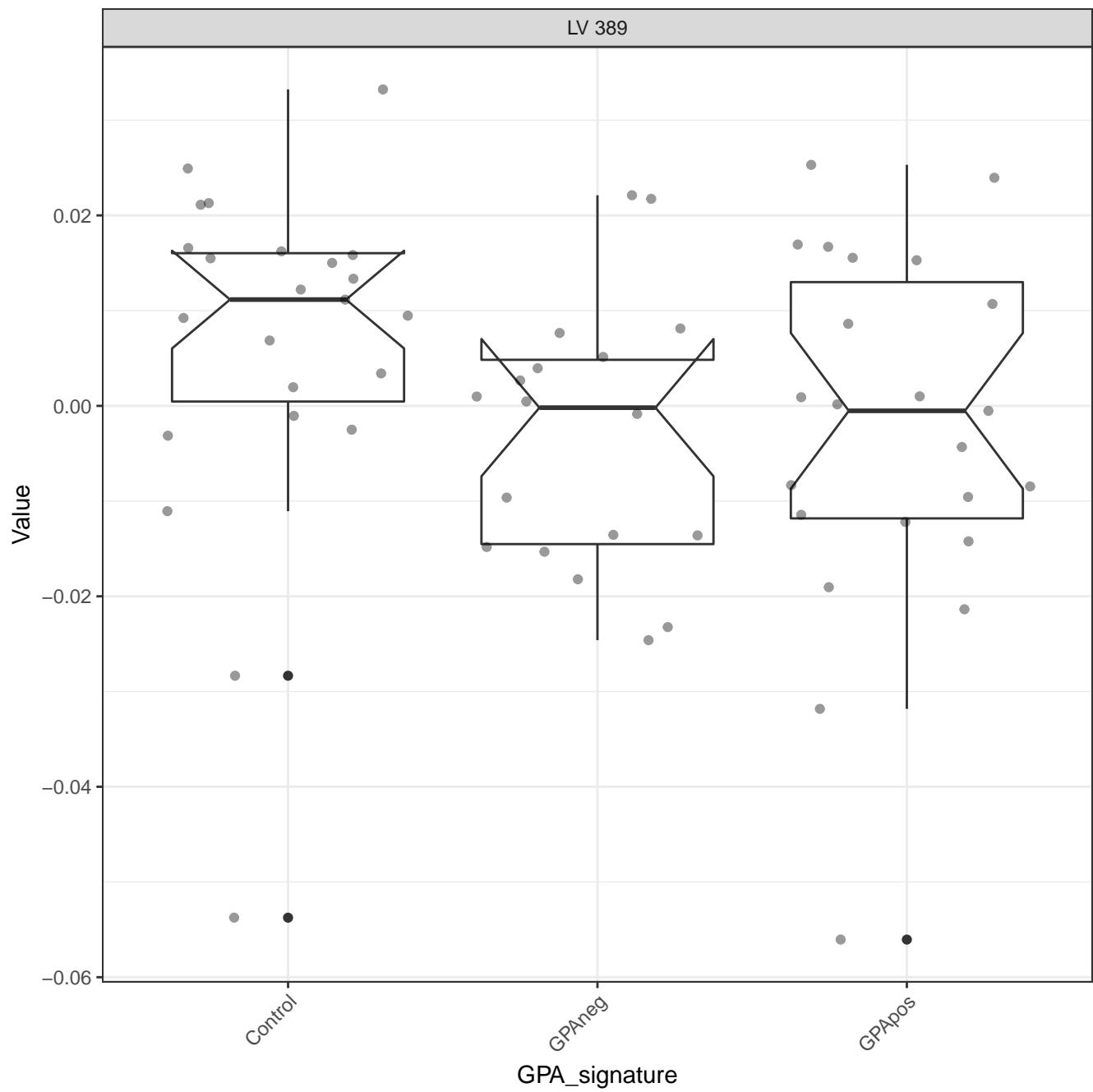
GPAPos



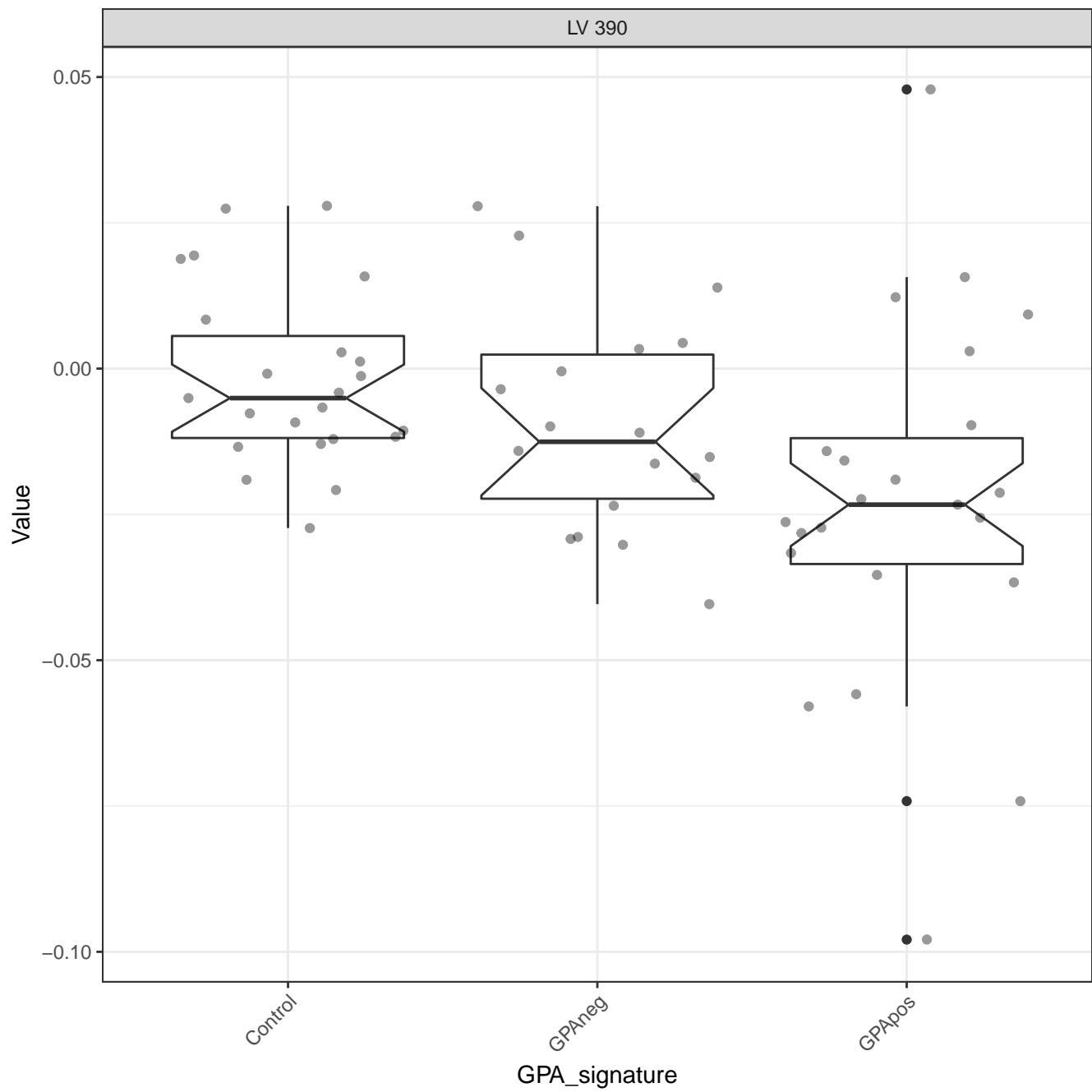




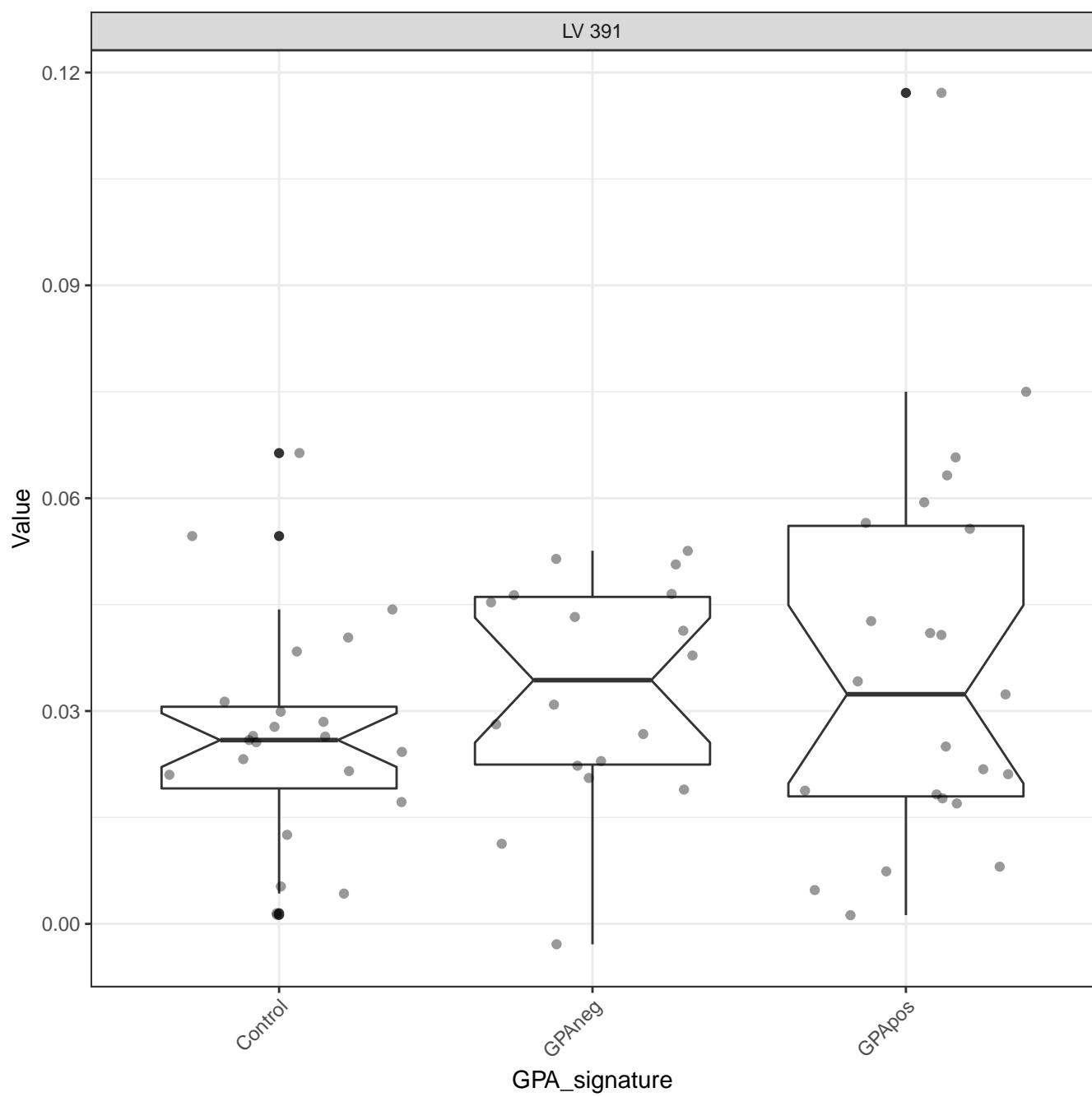
LV 389



## LV 390



LV 391



LV 392

Value

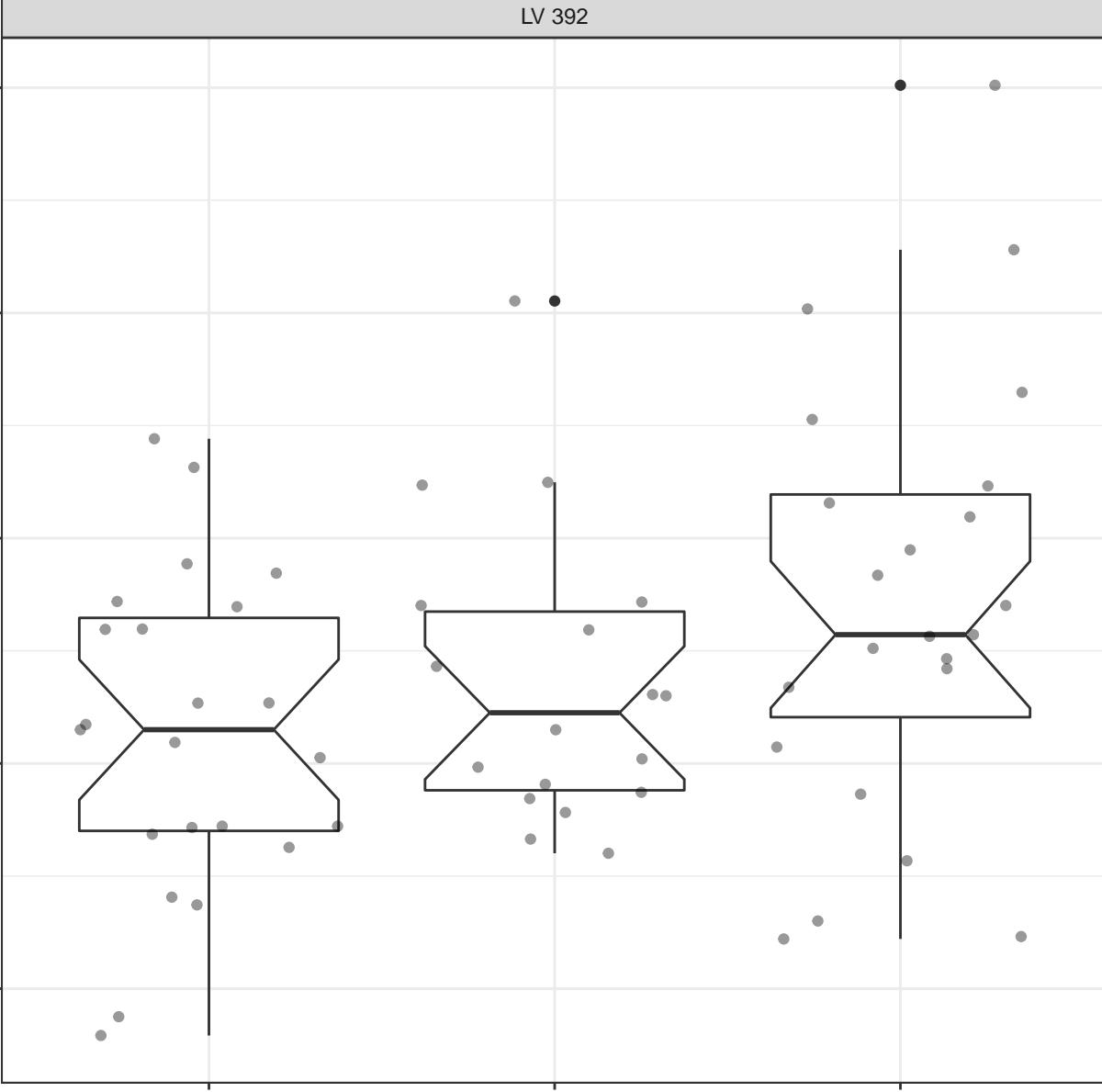
0.06  
0.04  
0.02  
0.00  
-0.02

Control

GPAneg

GPAPos

GPA\_signature



## LV 393

Value

0.10

0.05

0.01

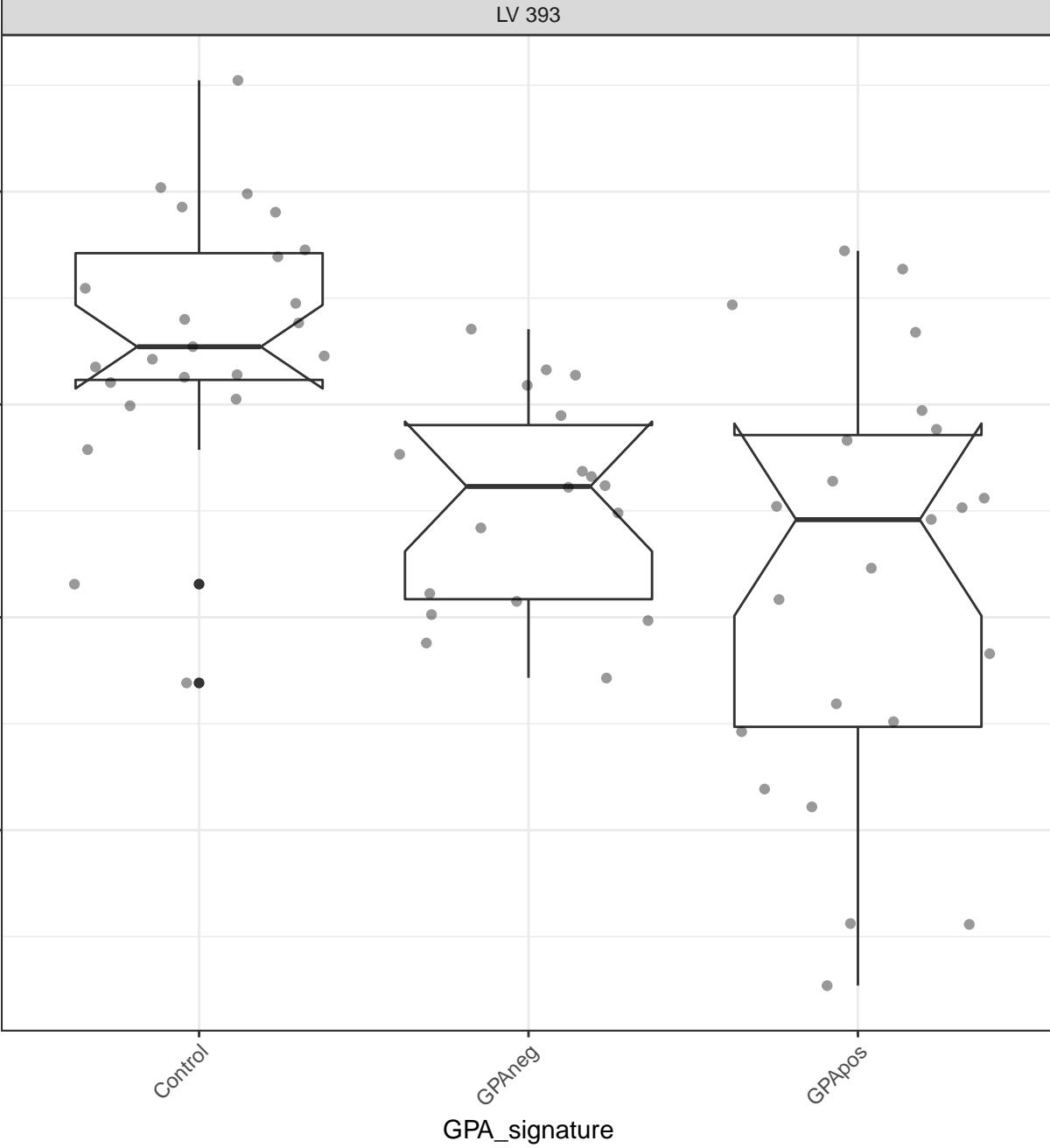
-0.05

Control

GPAneg

GPAPos

GPA\_signature



LV 394

Value

0.05

0.00

-0.05

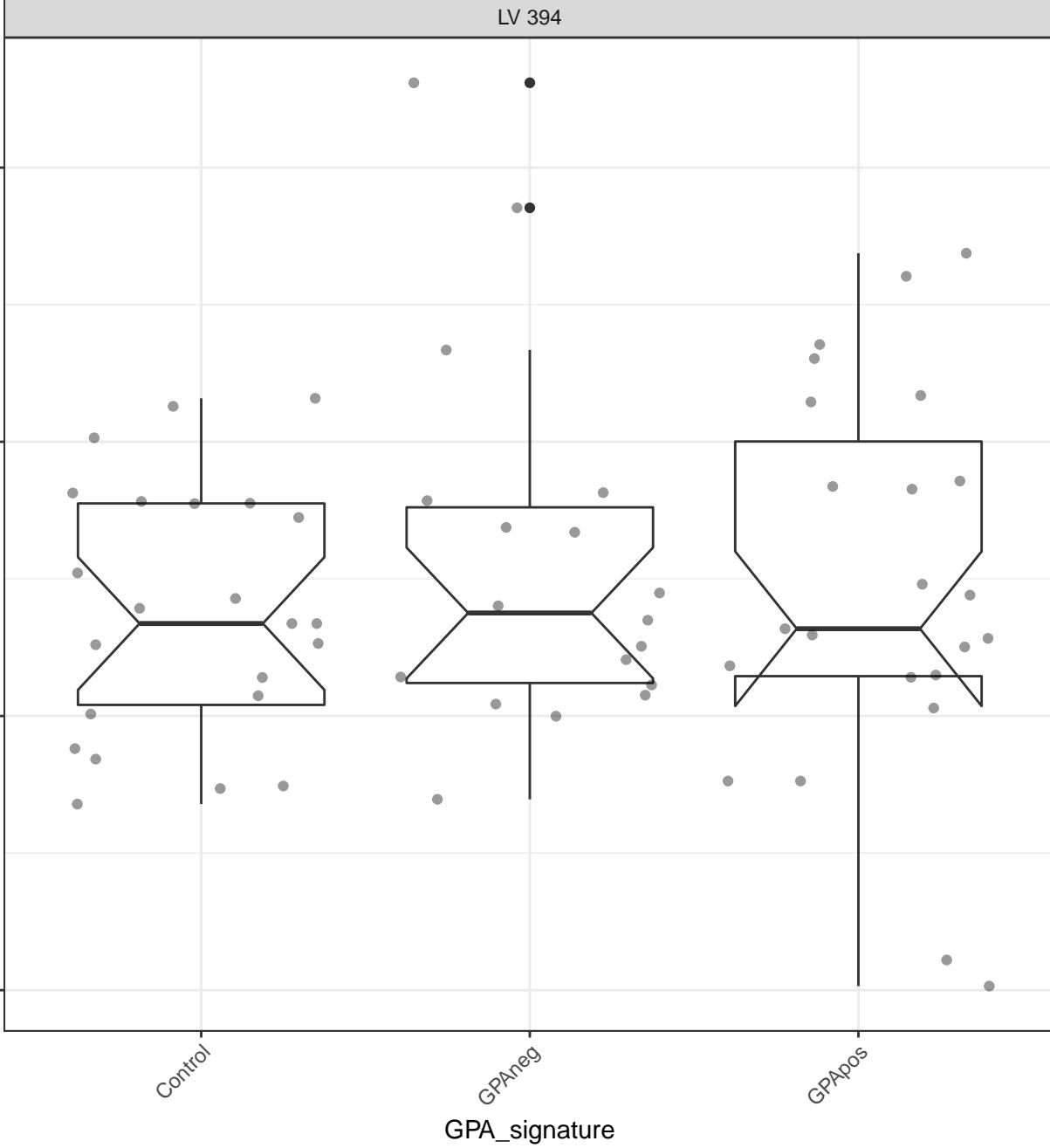
-0.10

Control

GPAneg

GPApos

GPA\_signature



LV 395

Value

0.1

0.0

-0.1

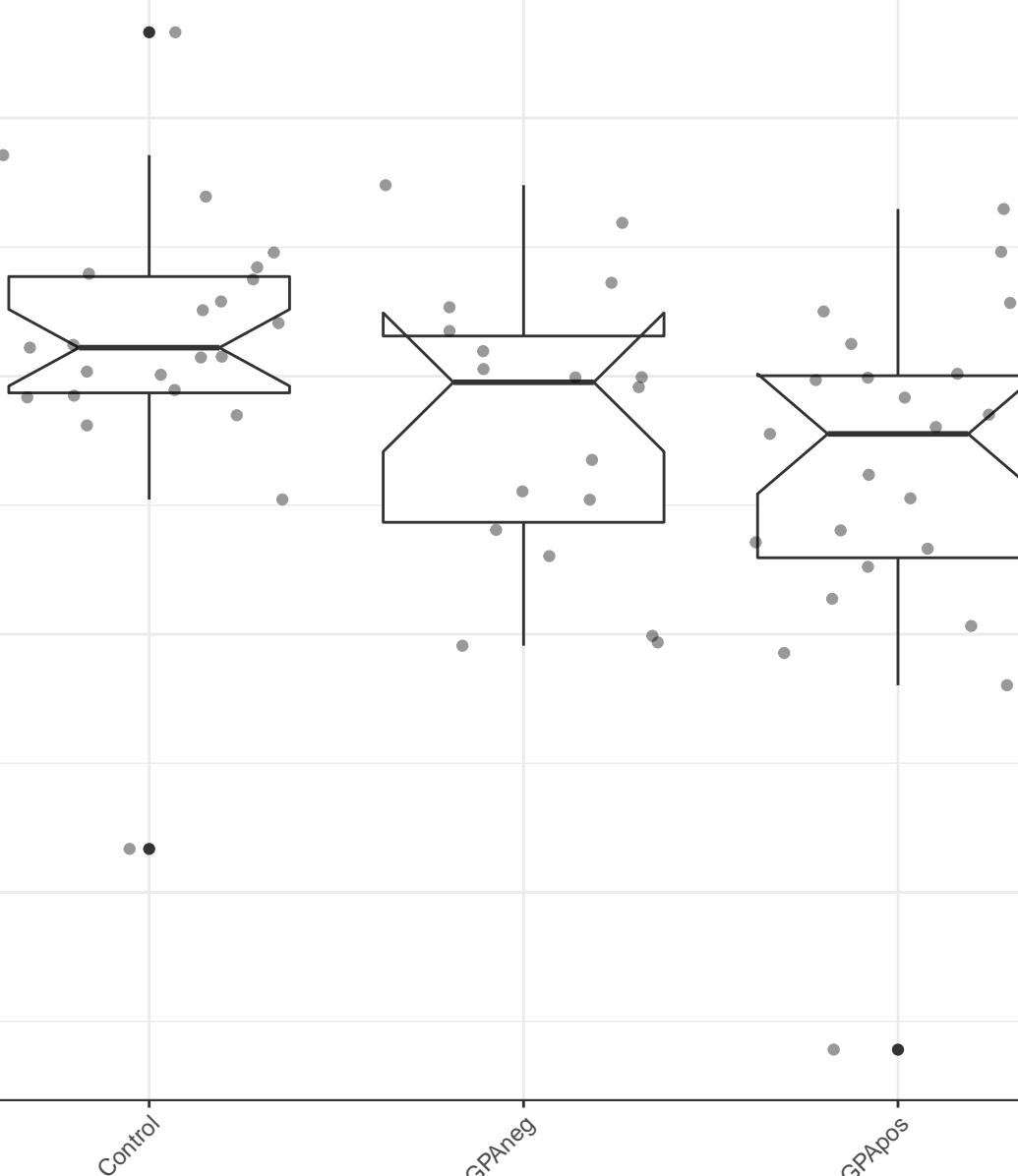
-0.2

Control

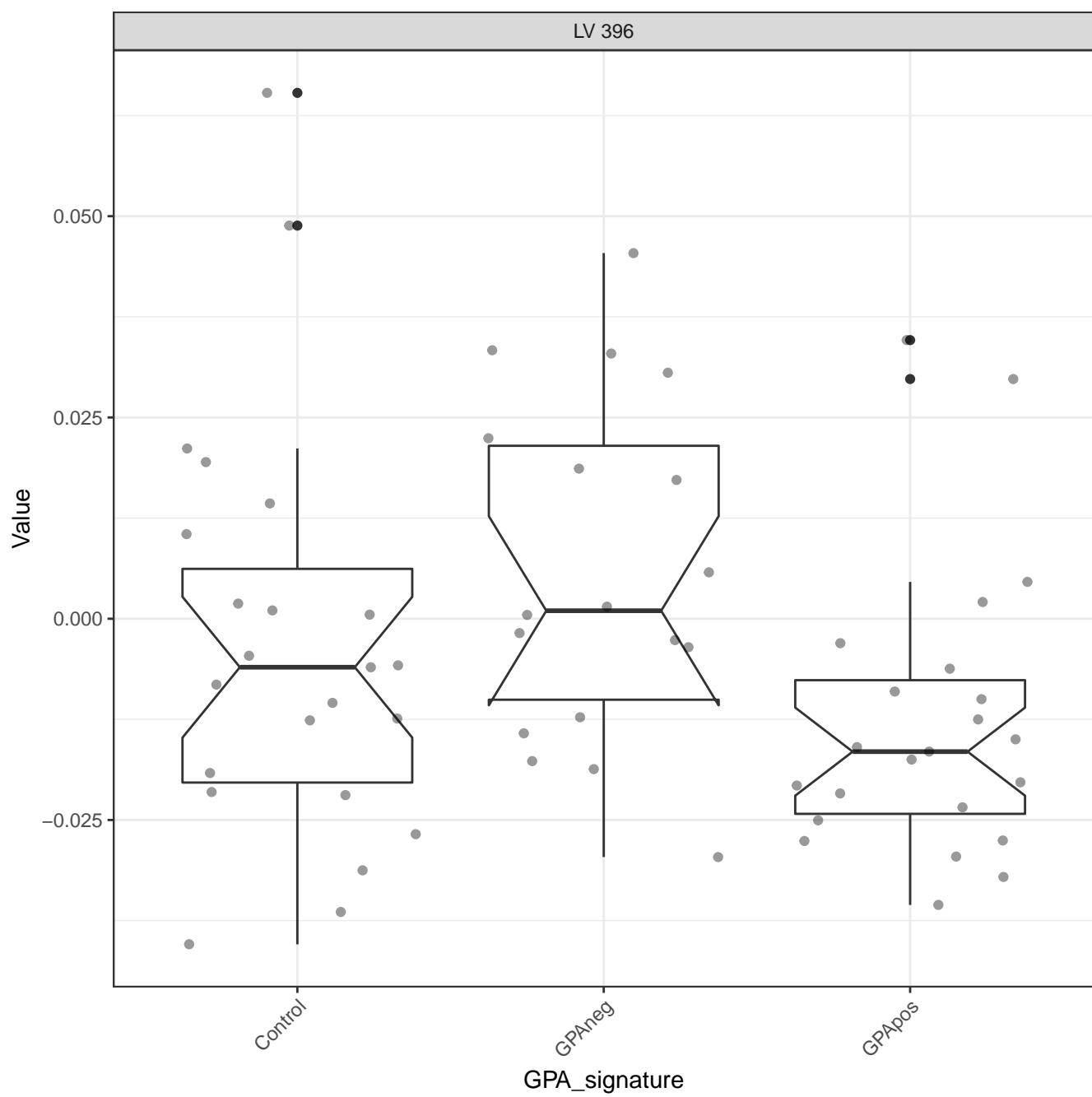
GPAneg

GPAPos

GPA\_signature



## LV 396



LV 397

Value

0.05

0.00

-0.05

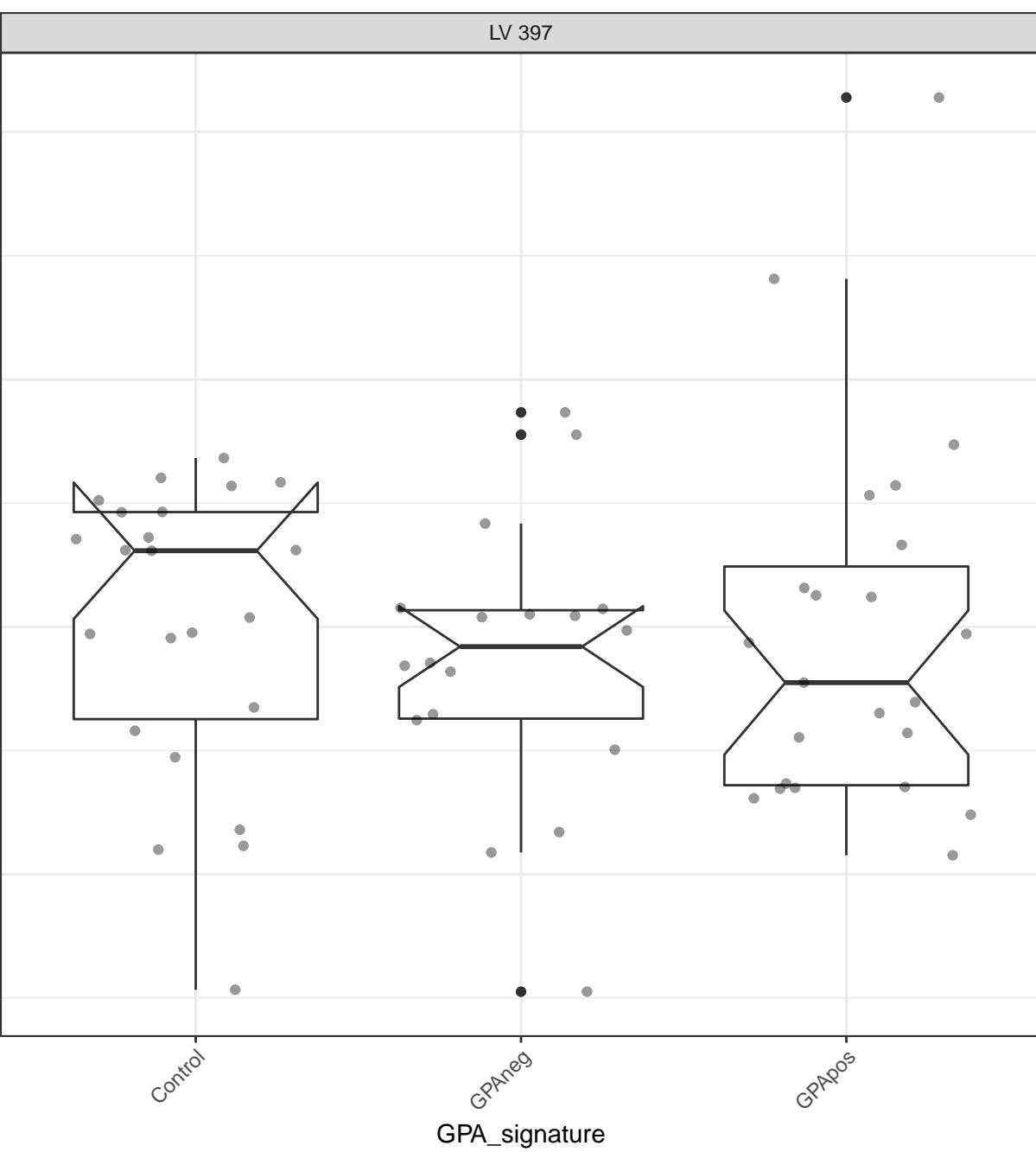
-0.10

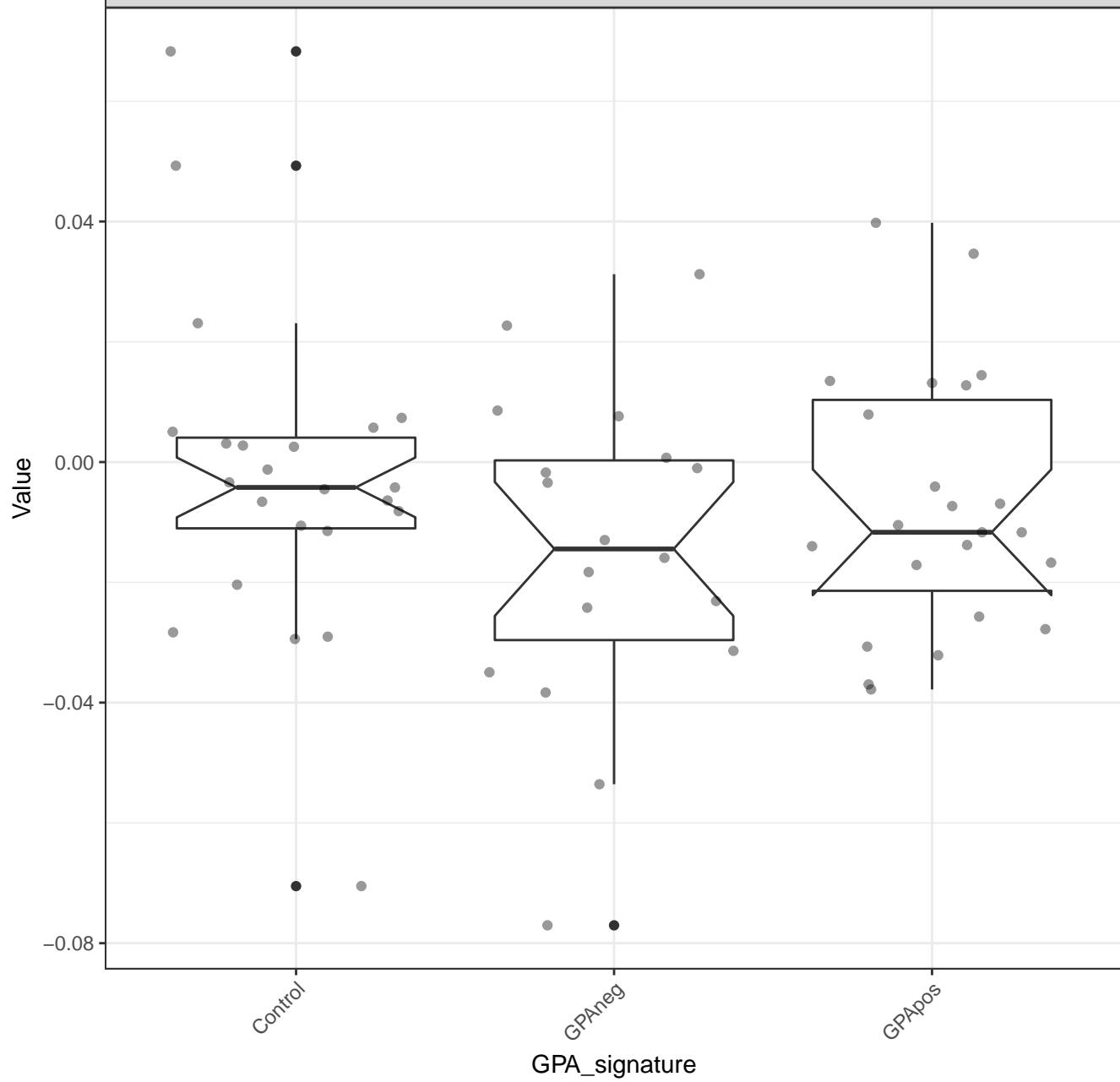
Control

GPA\_signature

GPAneg

GPAPos





LV 399

Value

0.06

0.04

0.02

0.00

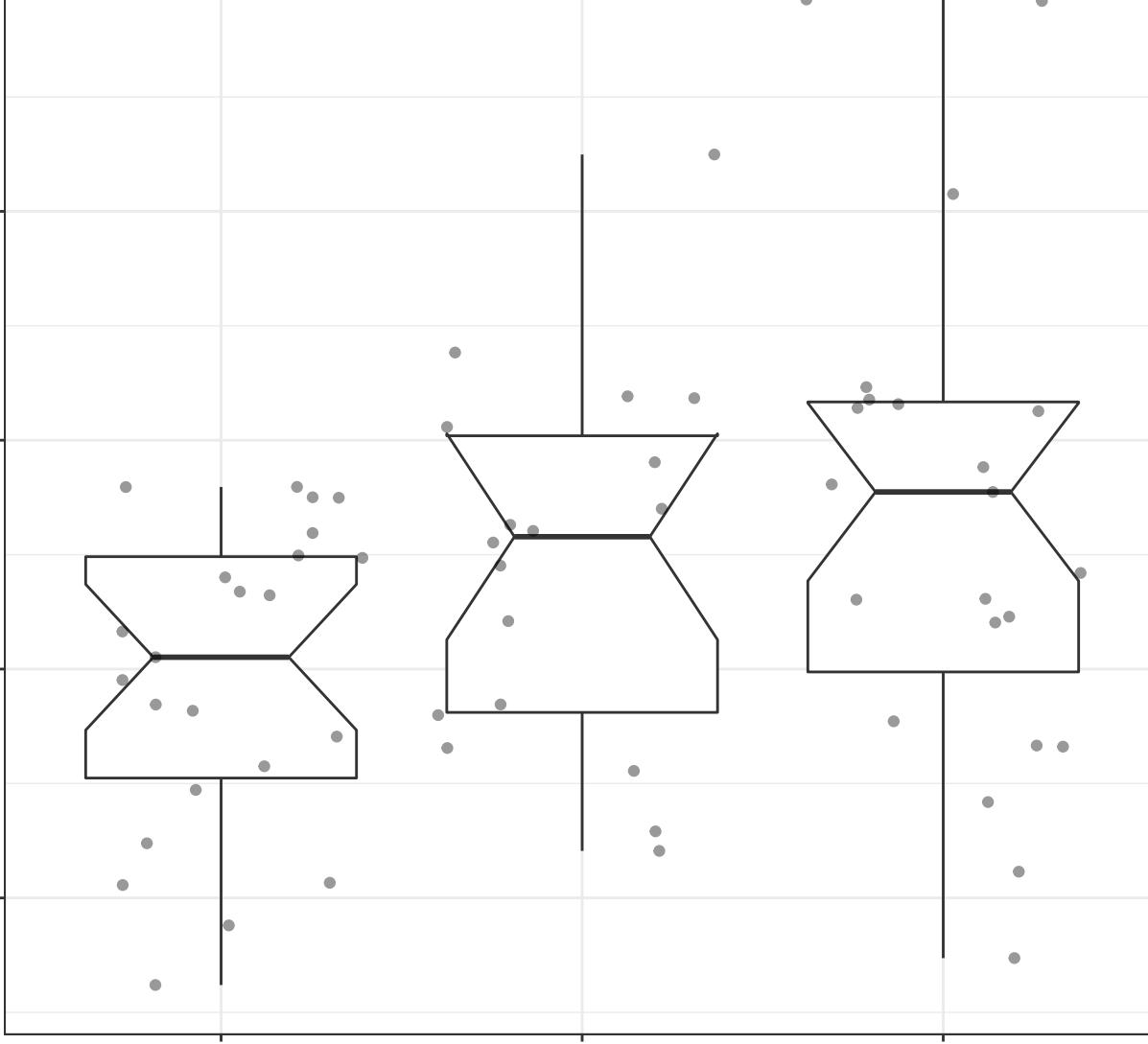
-0.02

Control

GPAneg

GPApos

GPA\_signature



## LV 400

Value

0.025

0.000

-0.025

-0.050

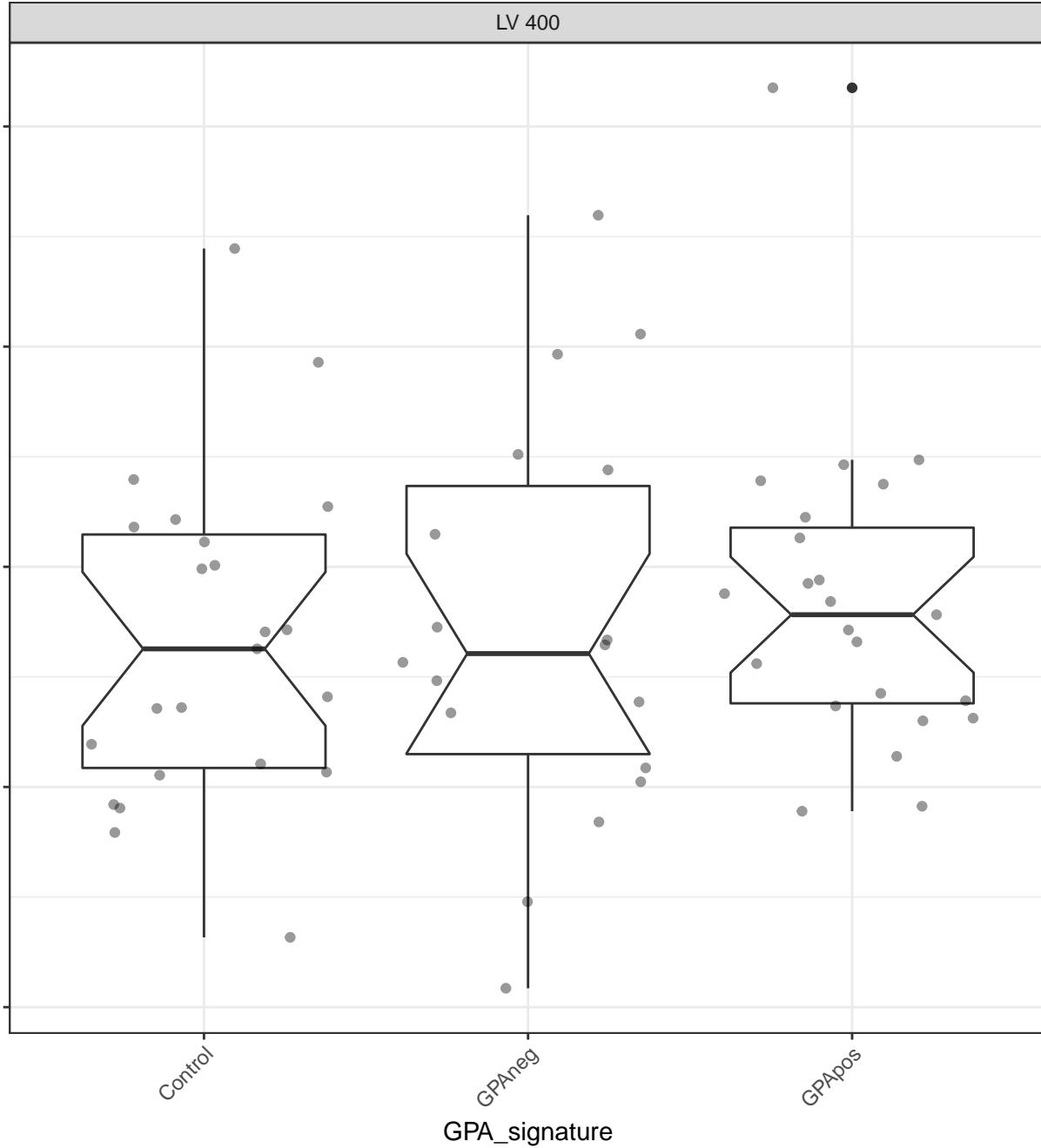
-0.075

Control

GPAneg

GPAPos

GPA\_signature



LV 401

Value

0.08

0.04

0.00

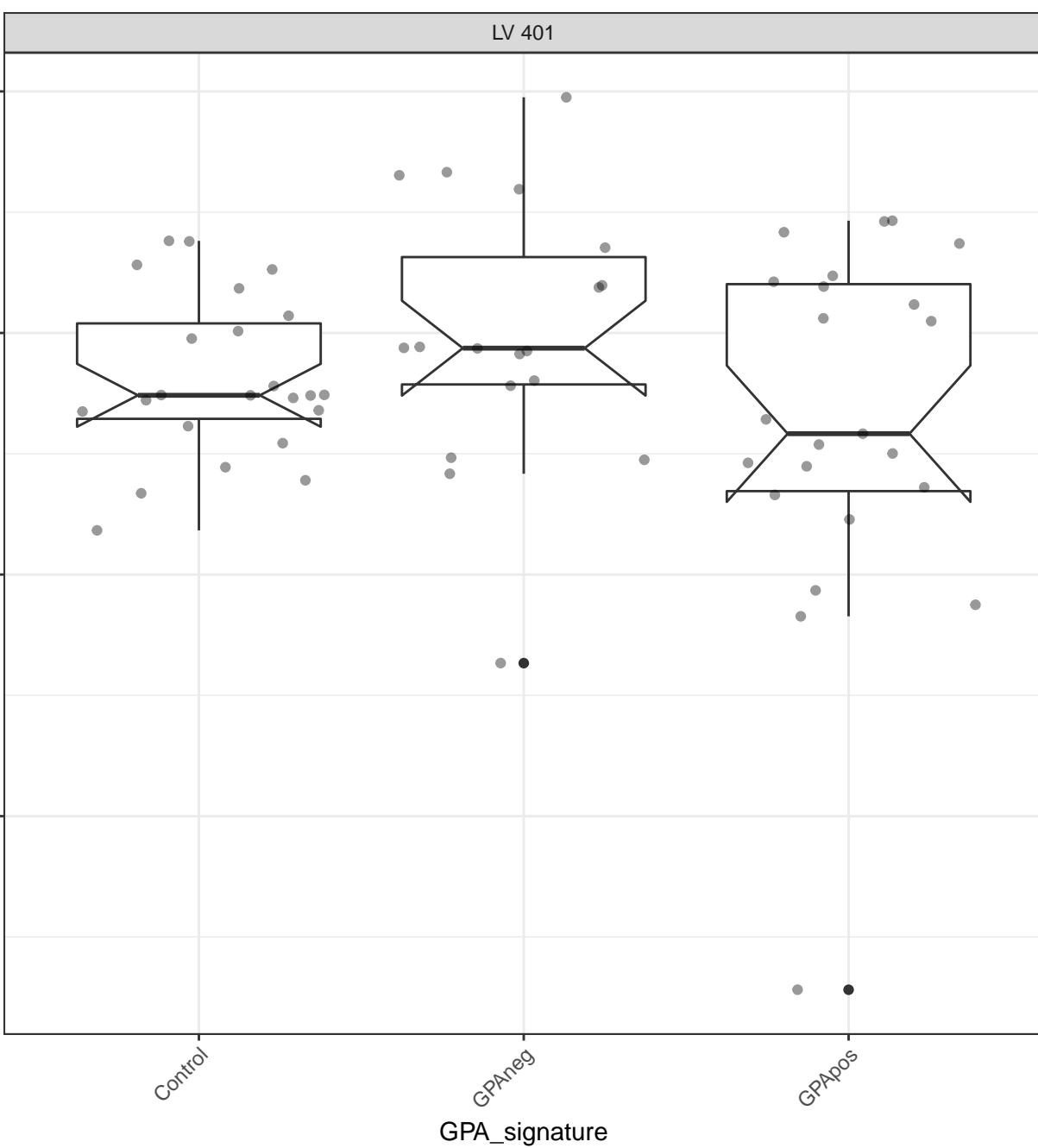
-0.04

Control

GPAneg

GPApos

GPA\_signature



## LV 402

Value

0.050

0.025

0.000

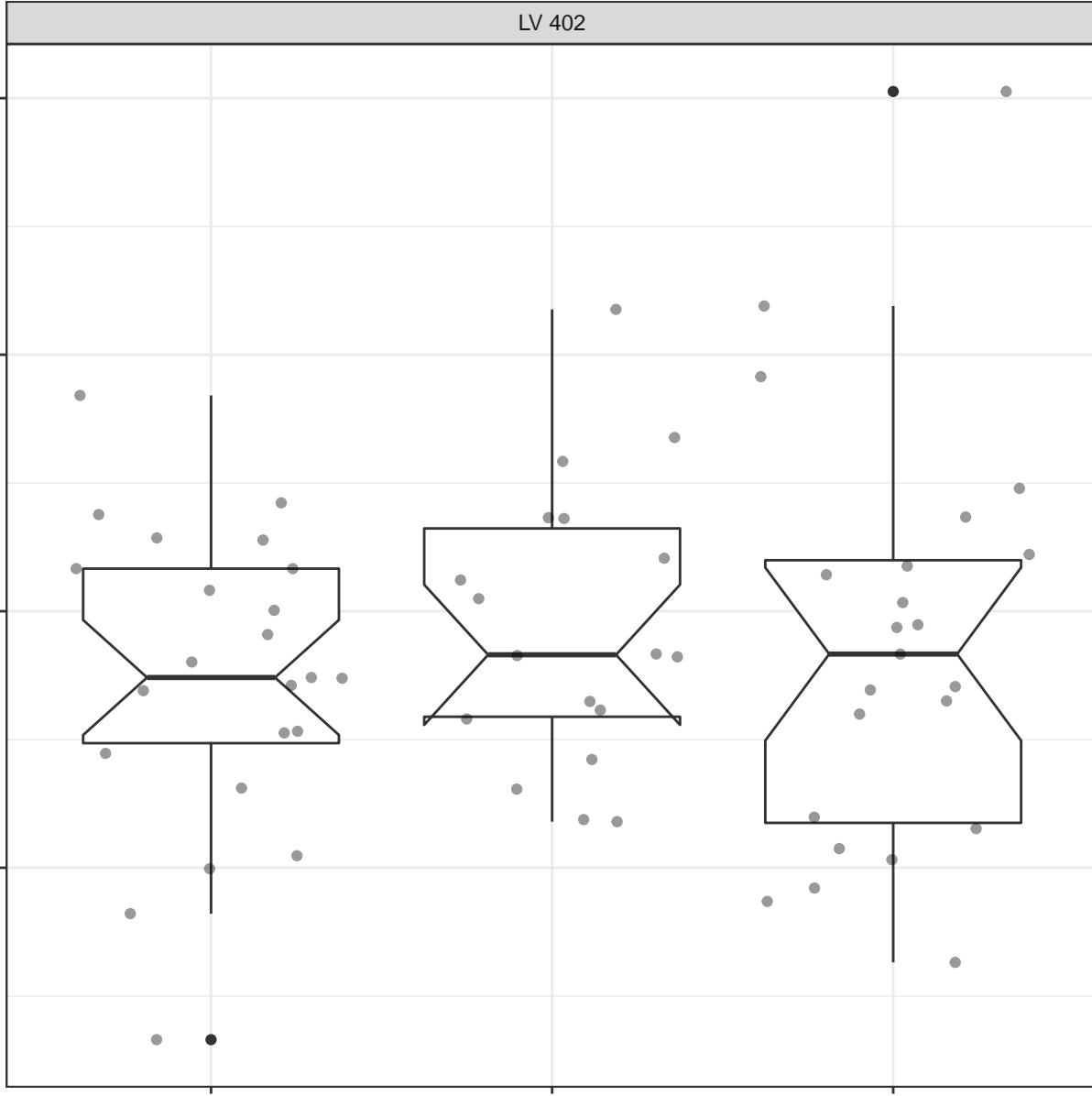
-0.025

Control

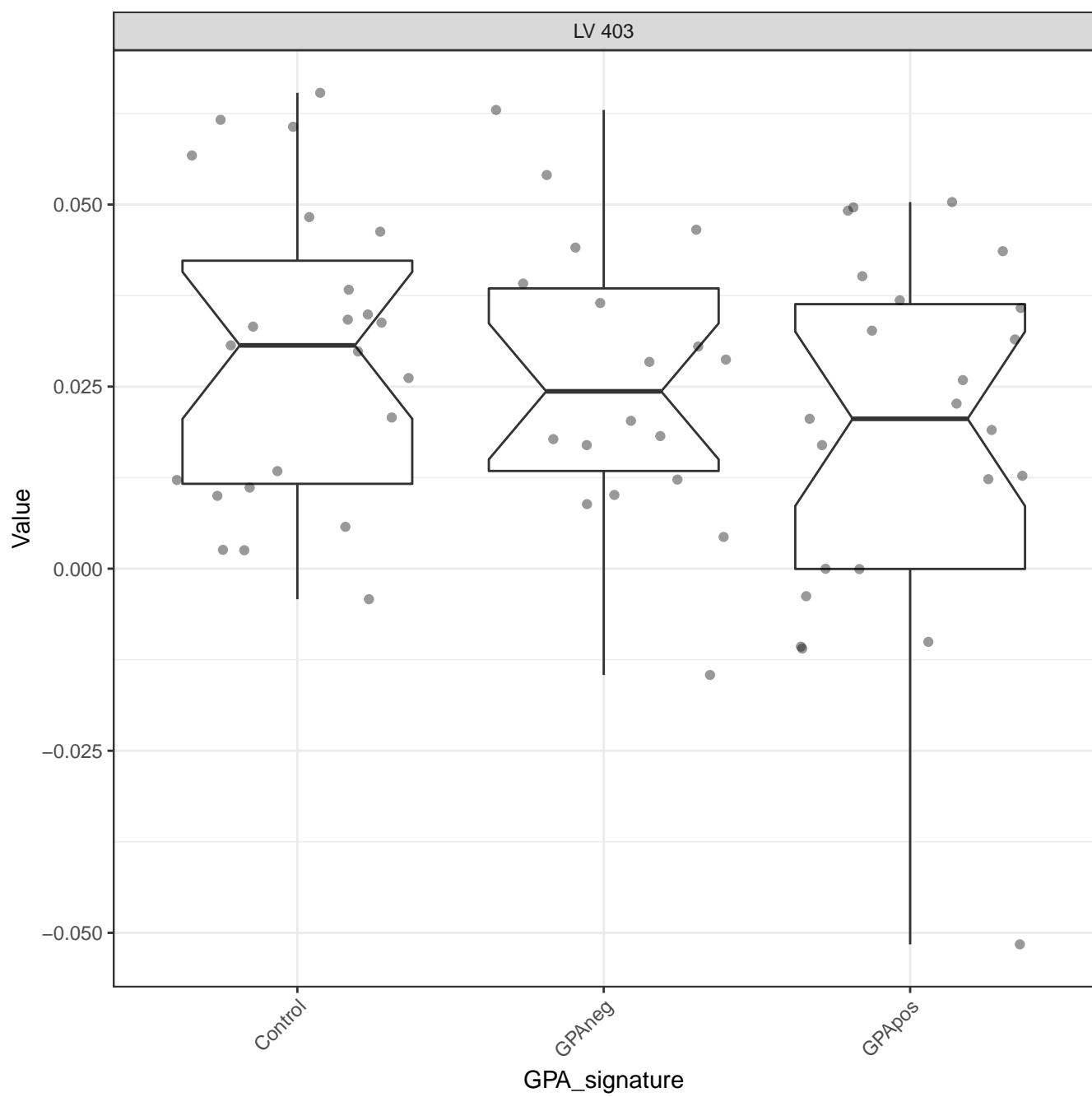
GPA\_signature

GPAneg

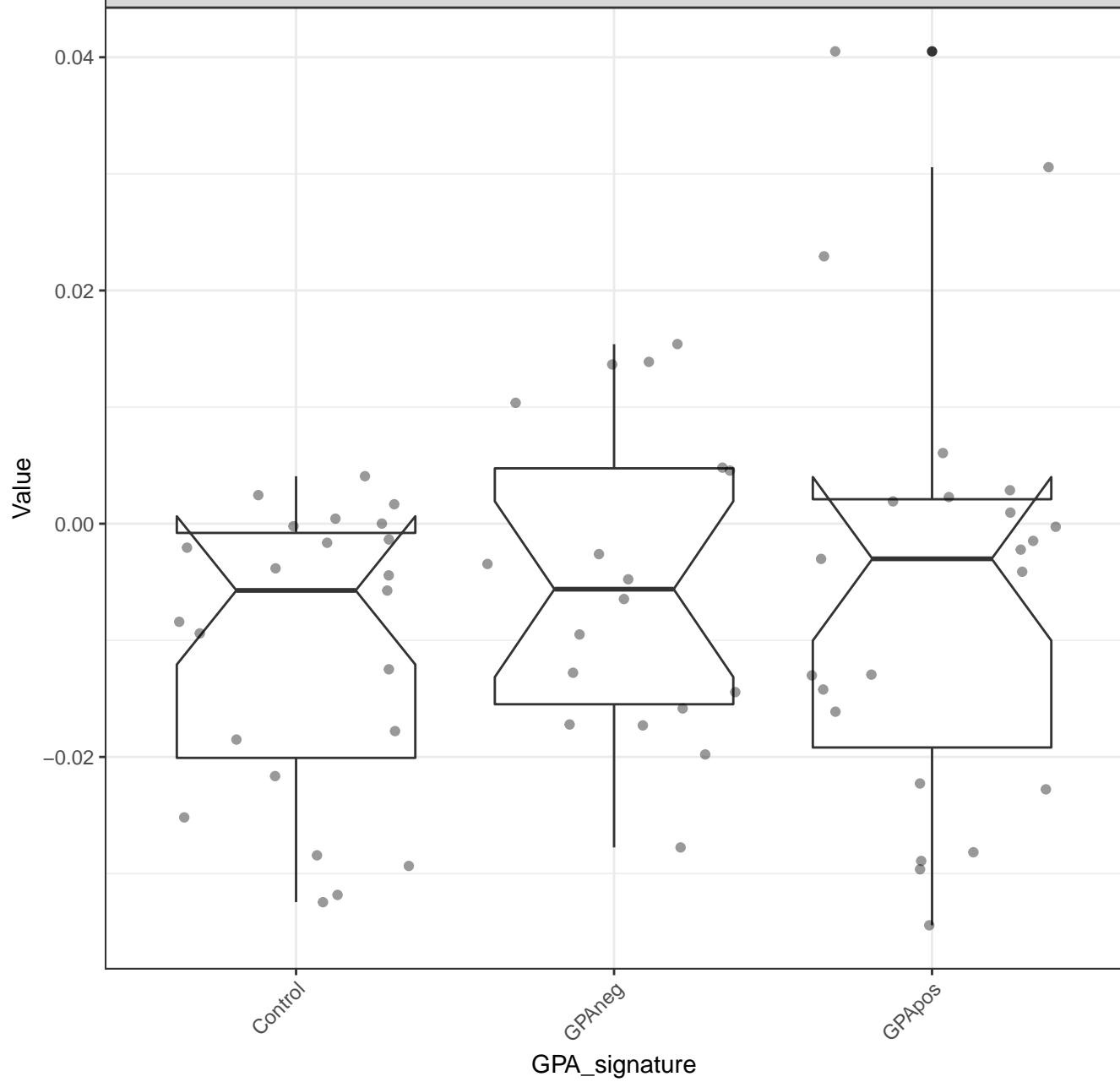
GPAPos



## LV 403



## LV 404



## LV 405

Value

0.025

0.000

-0.025

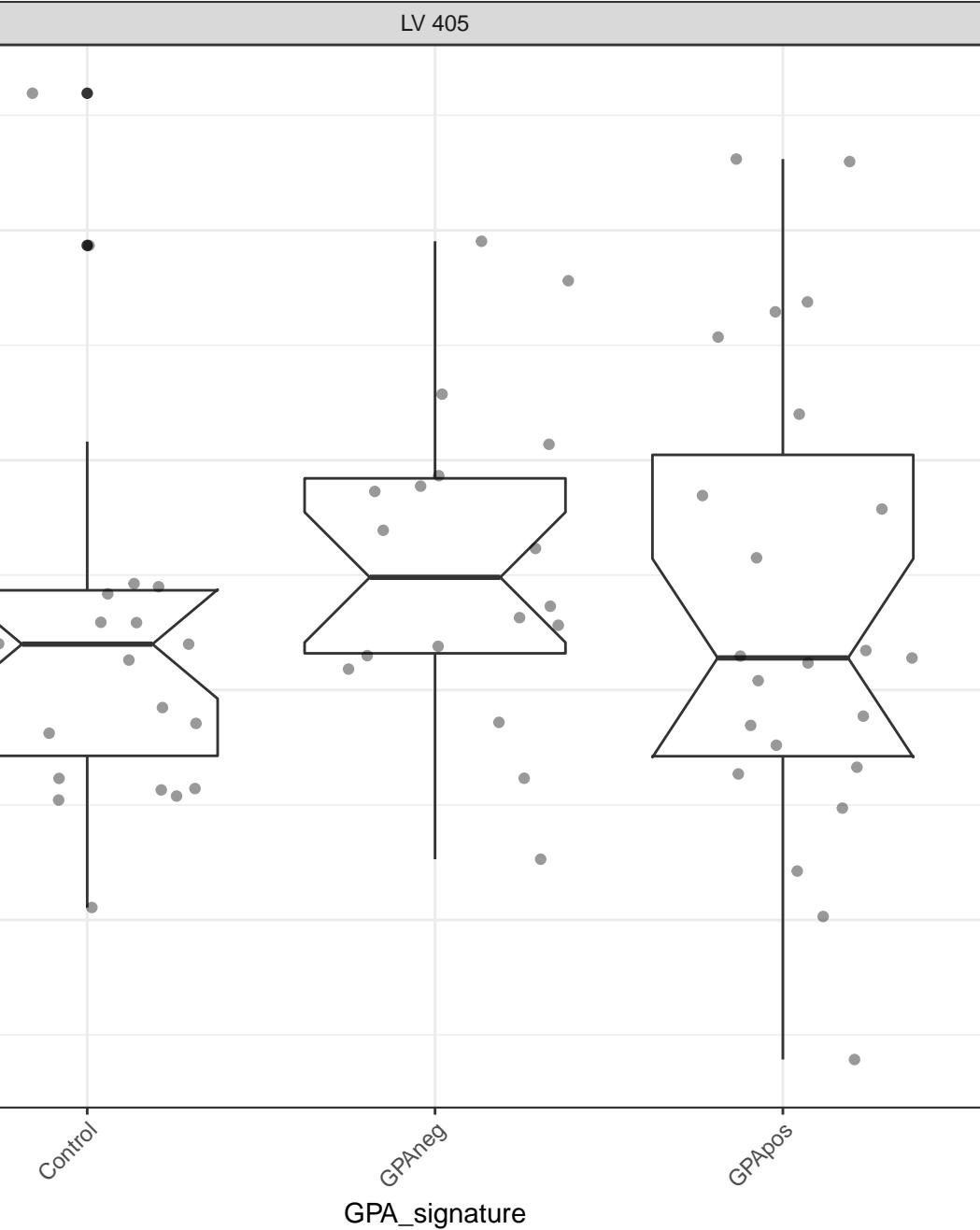
-0.050

Control

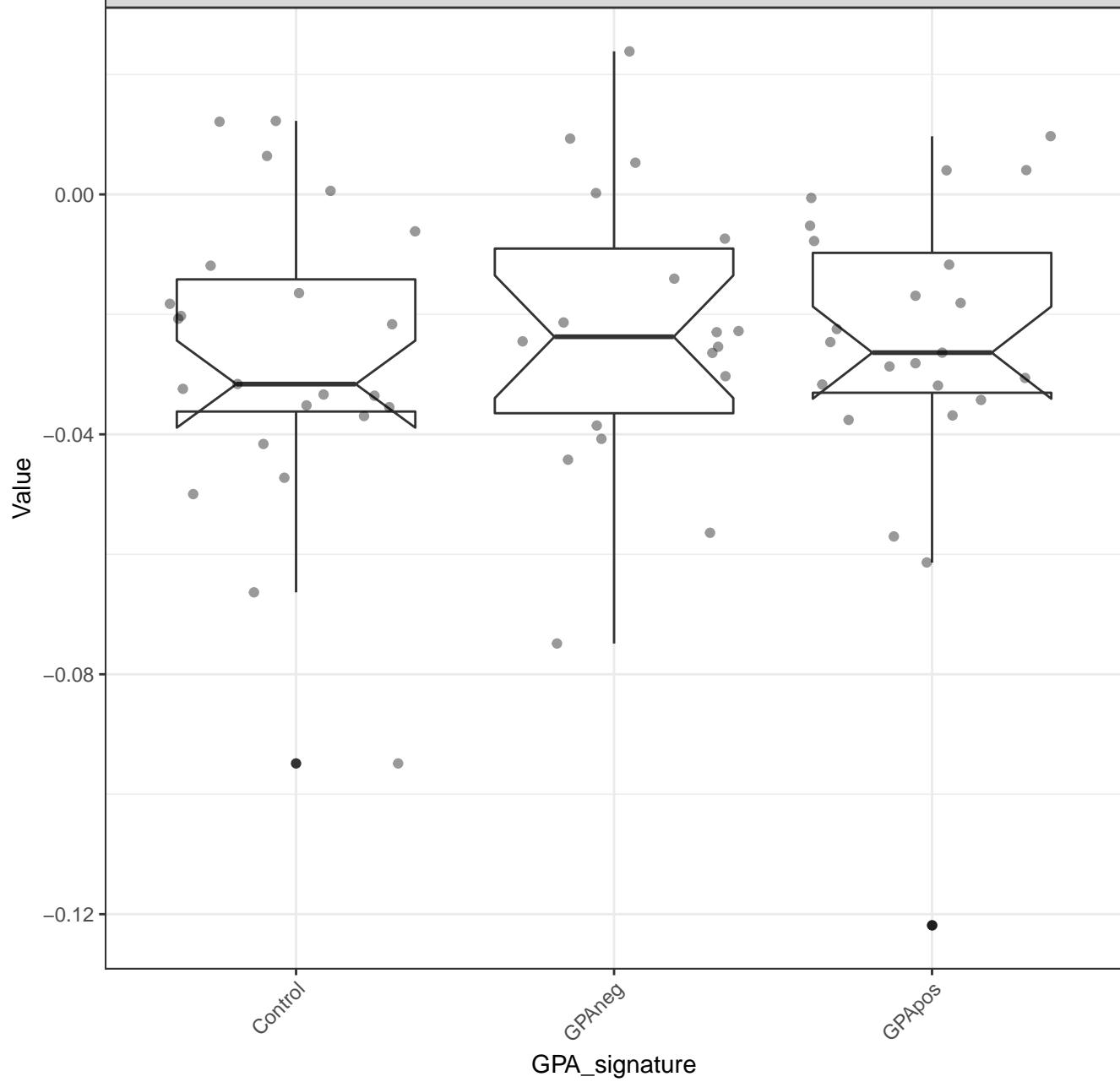
GPA\_signature

GPAneg

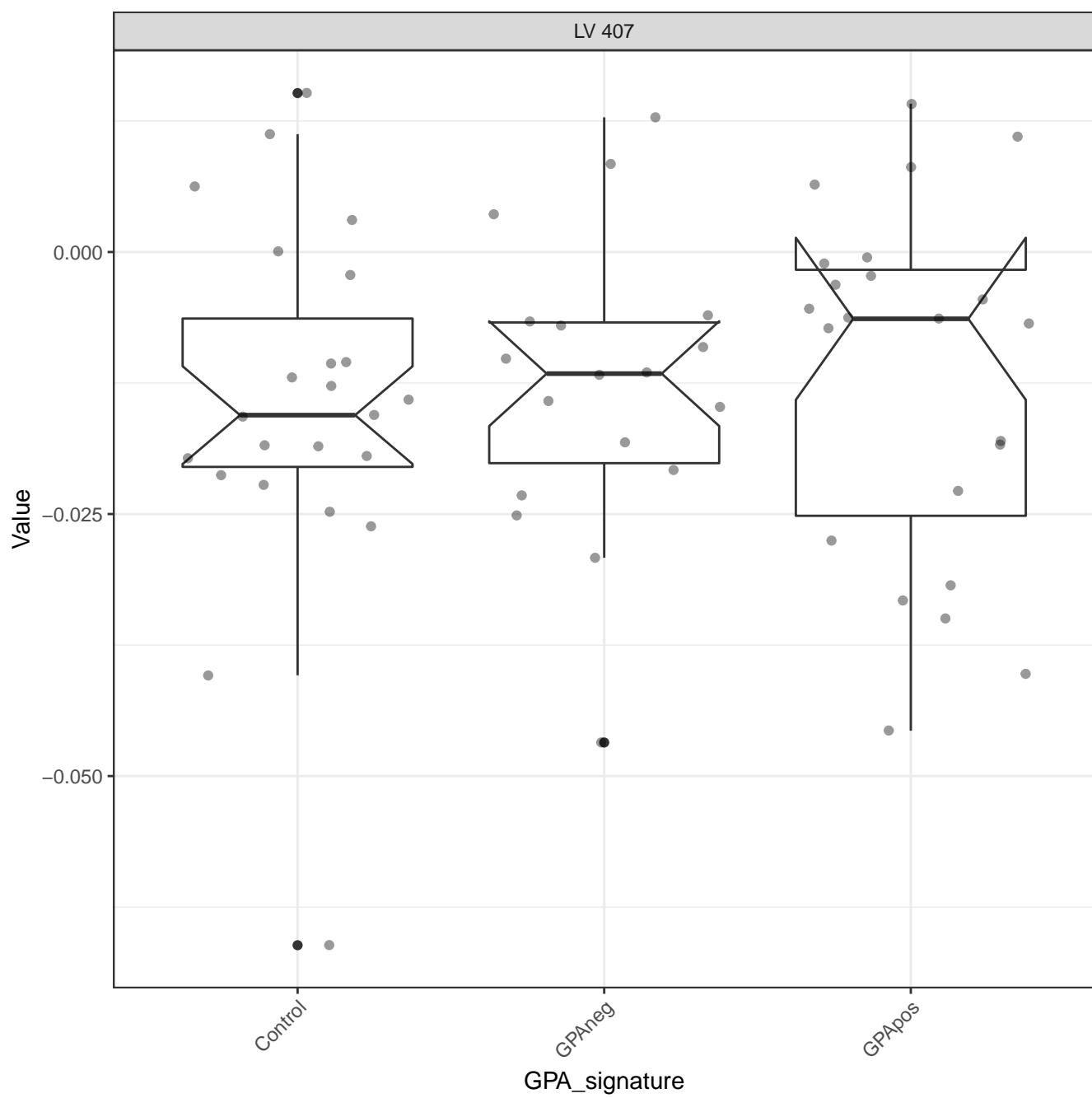
GPAPos



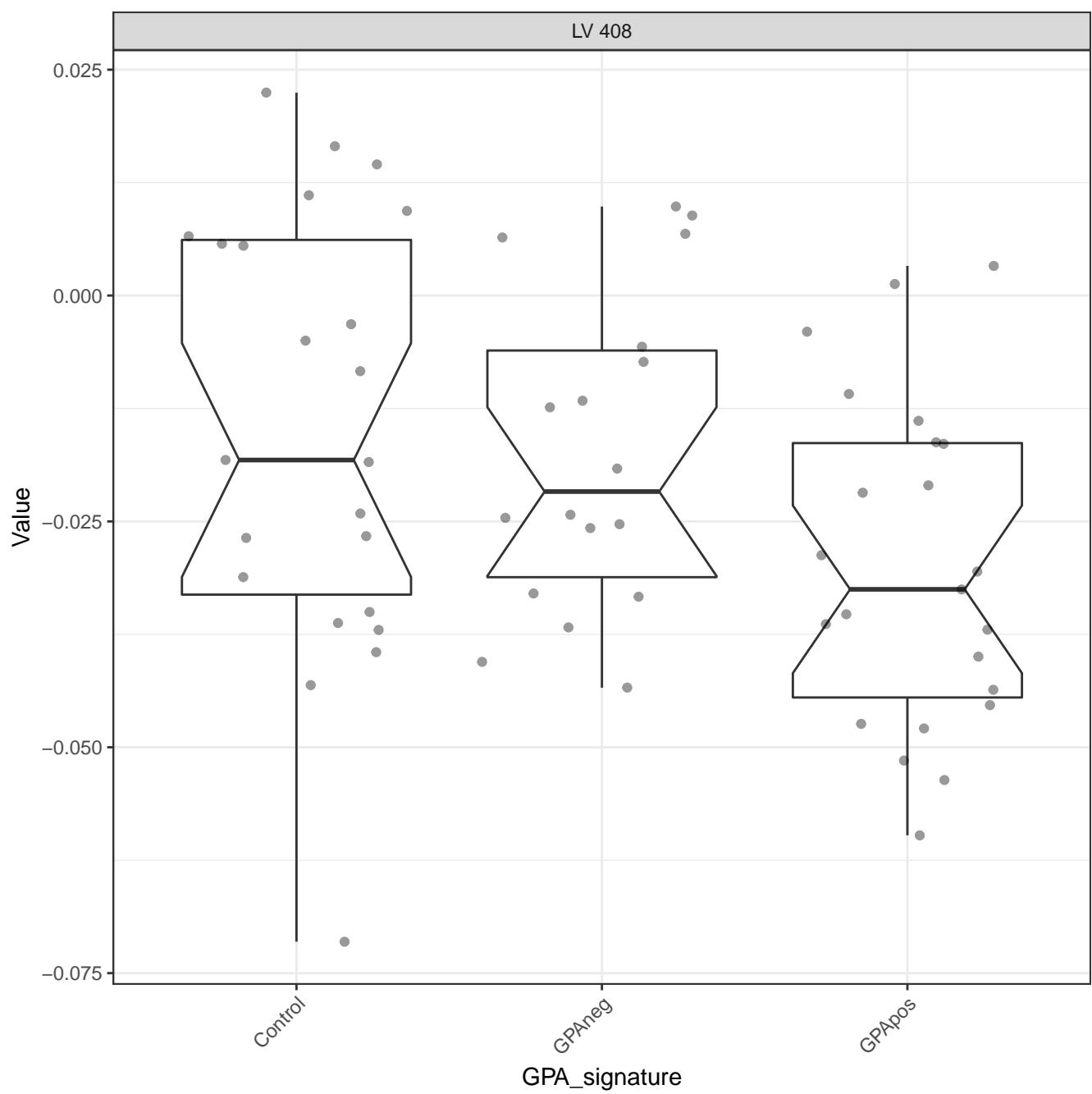
LV 406



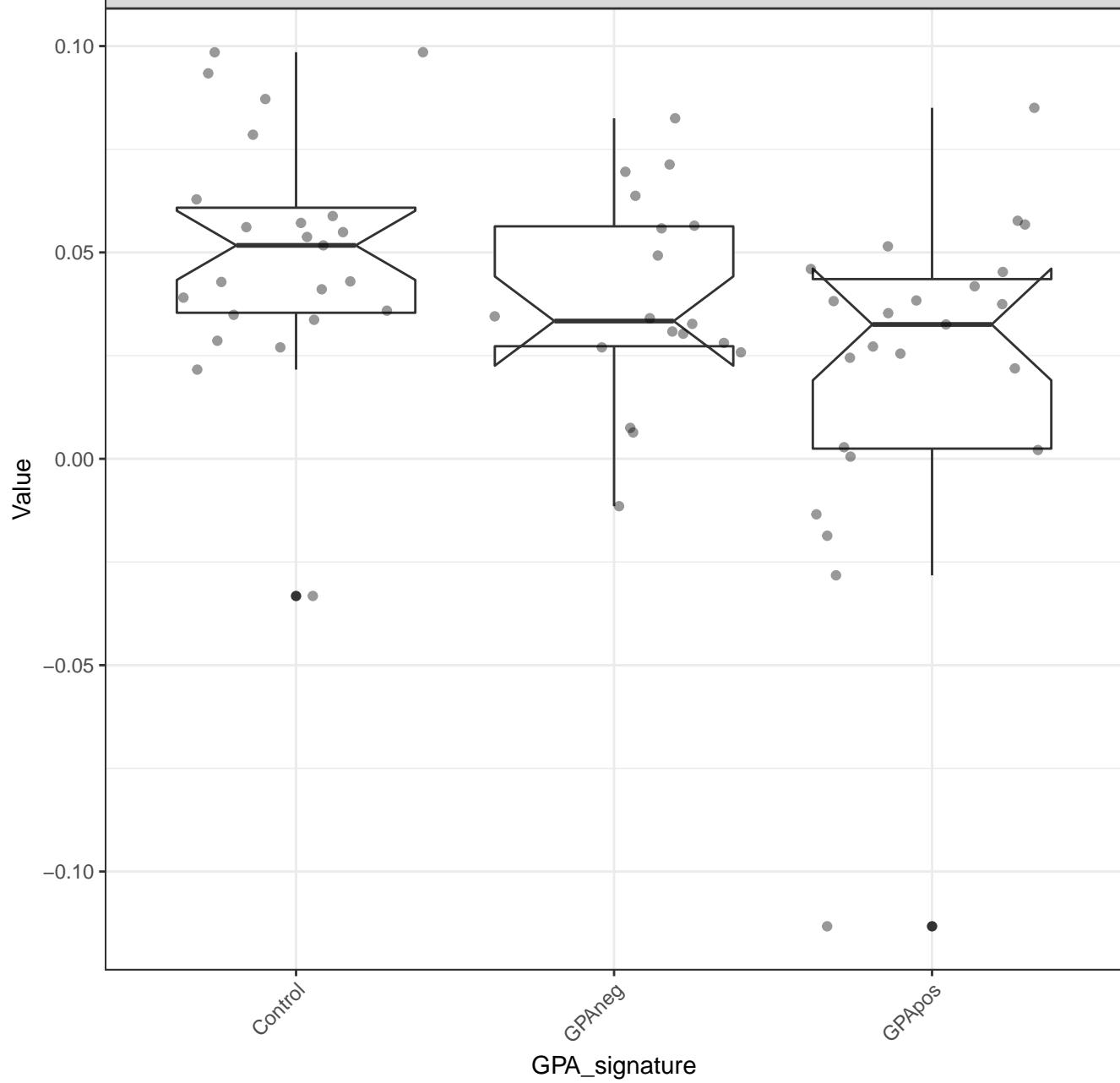
## LV 407

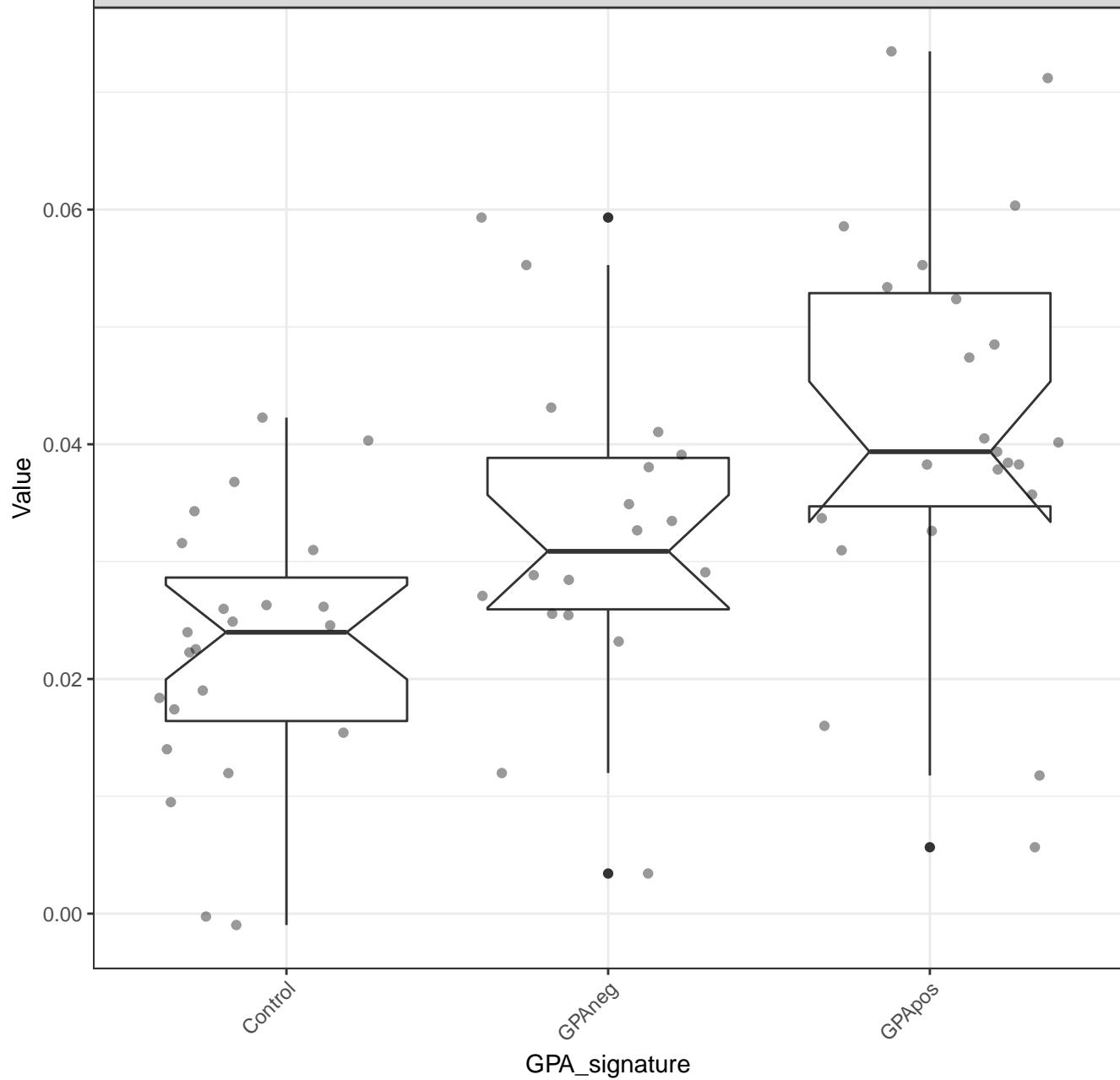


## LV 408

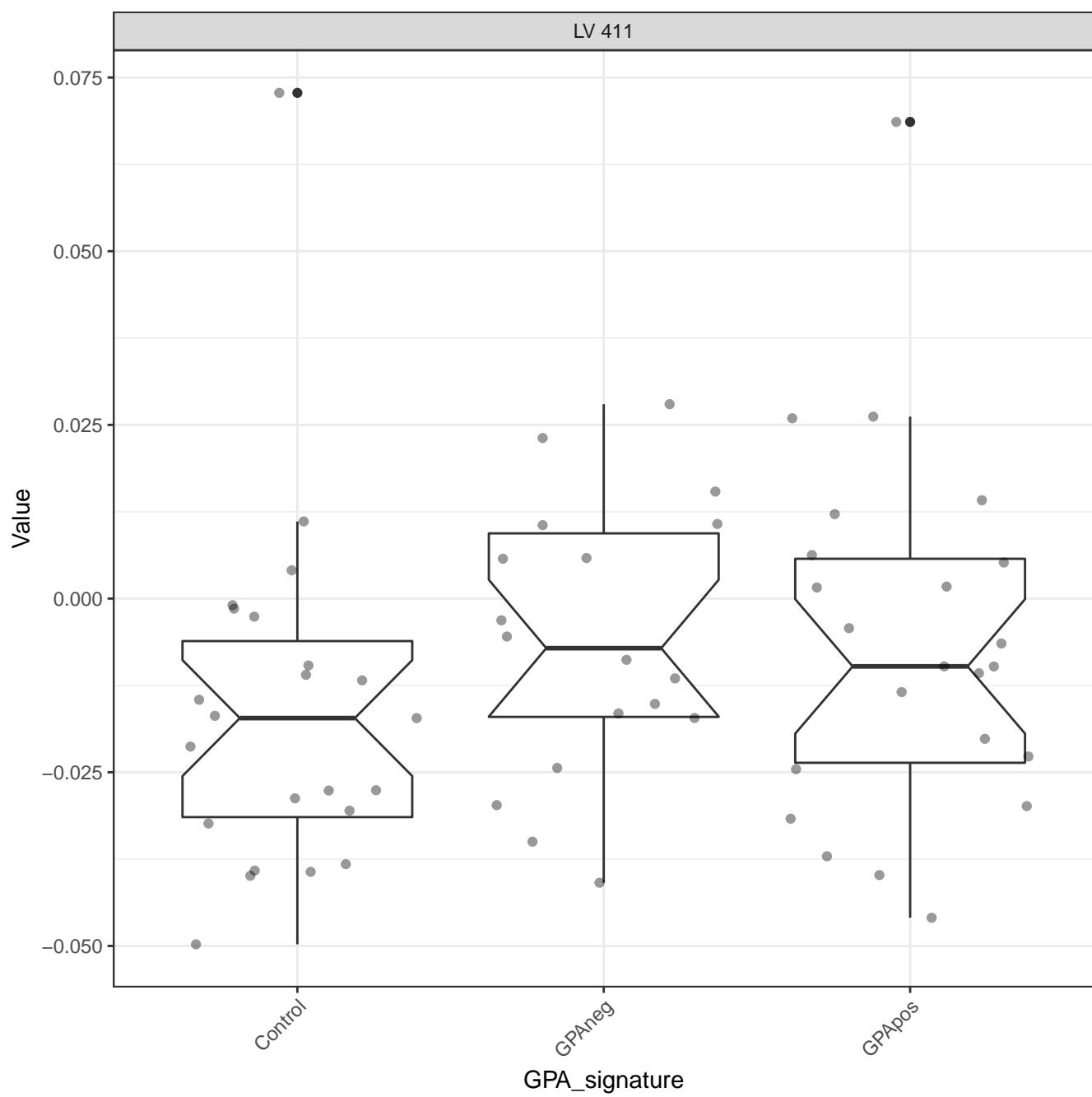


LV 409

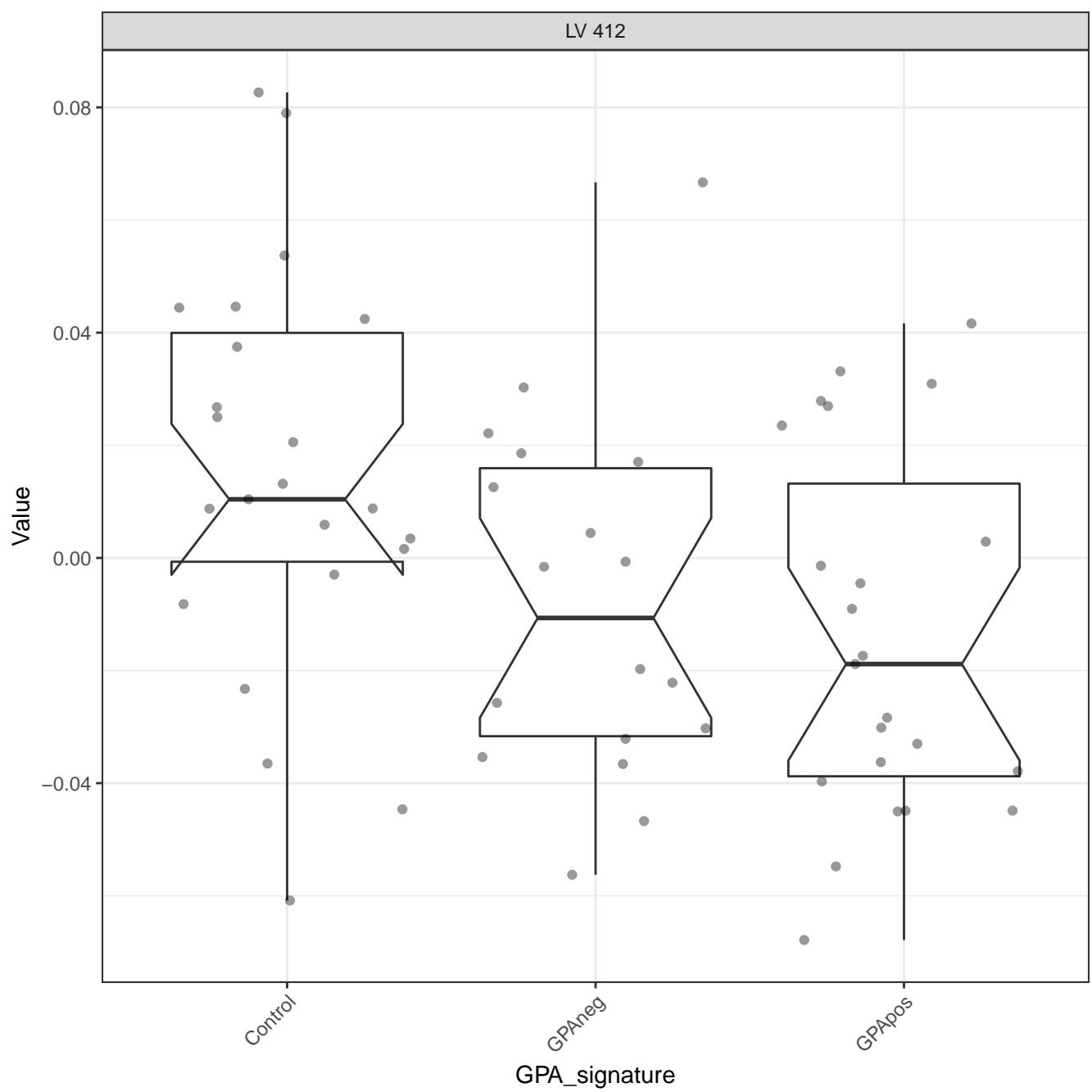




## LV 411



## LV 412



## LV 413

Value

0.02

0.00

-0.02

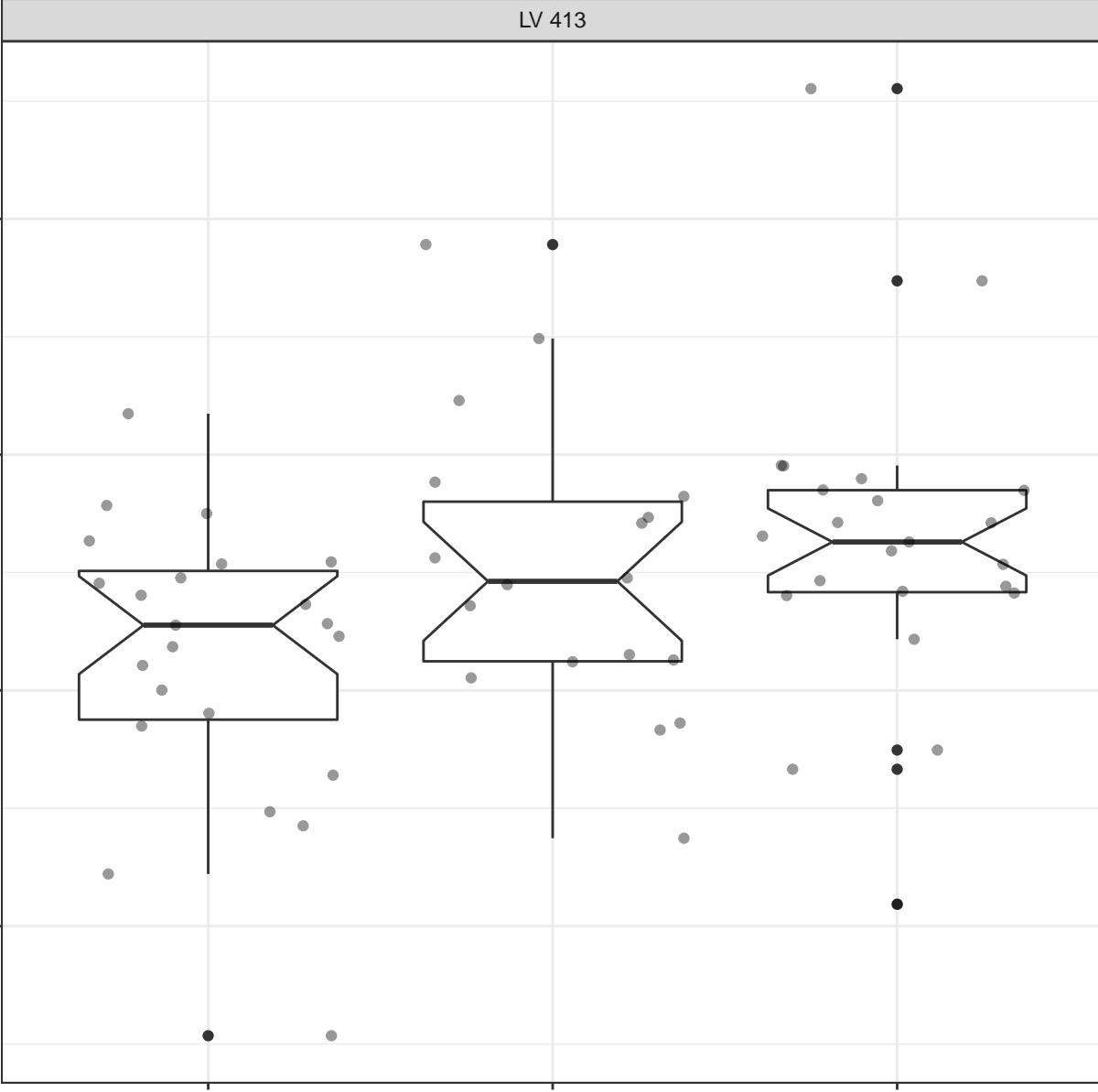
-0.04

Control

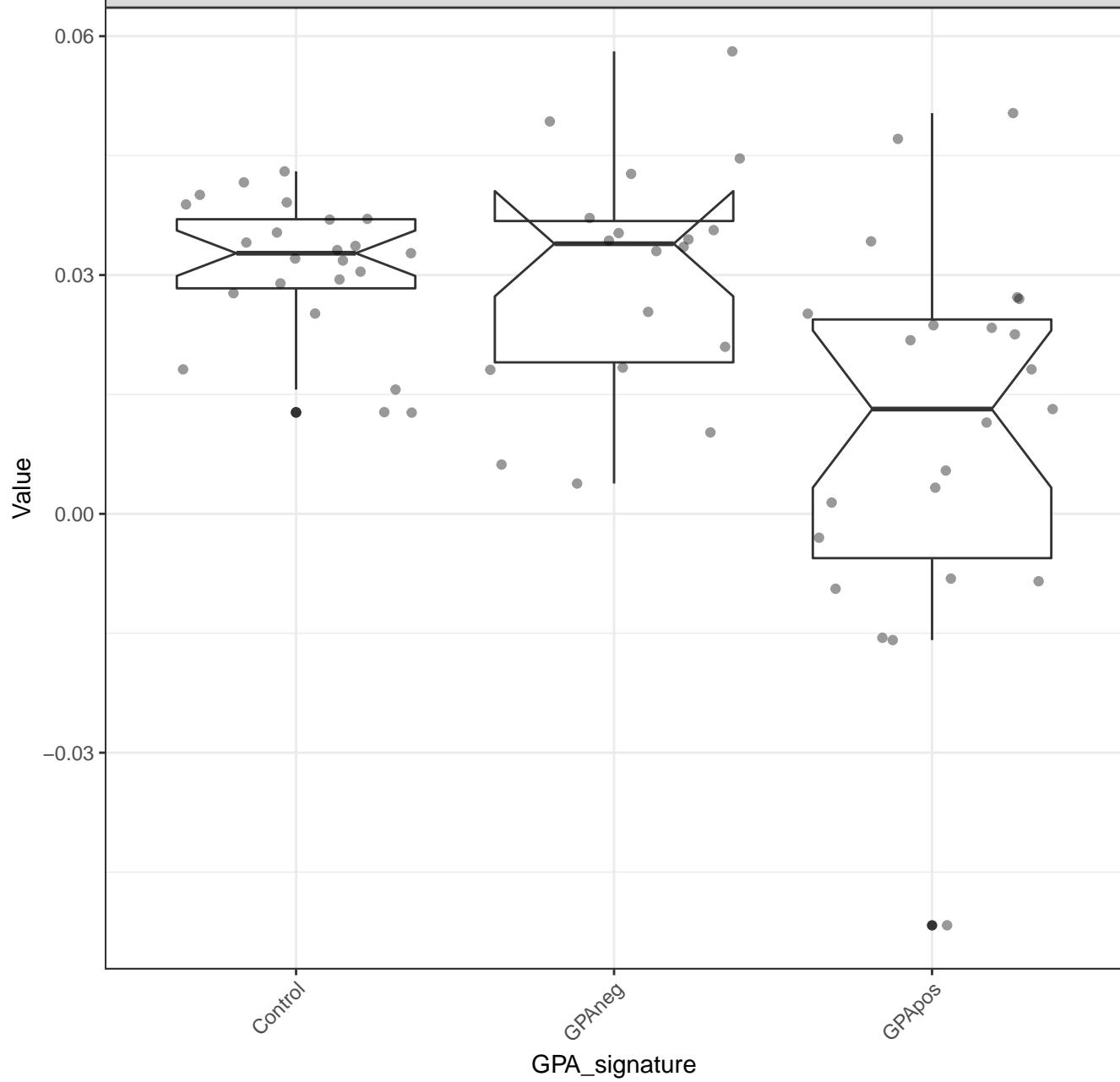
GPA\_signature

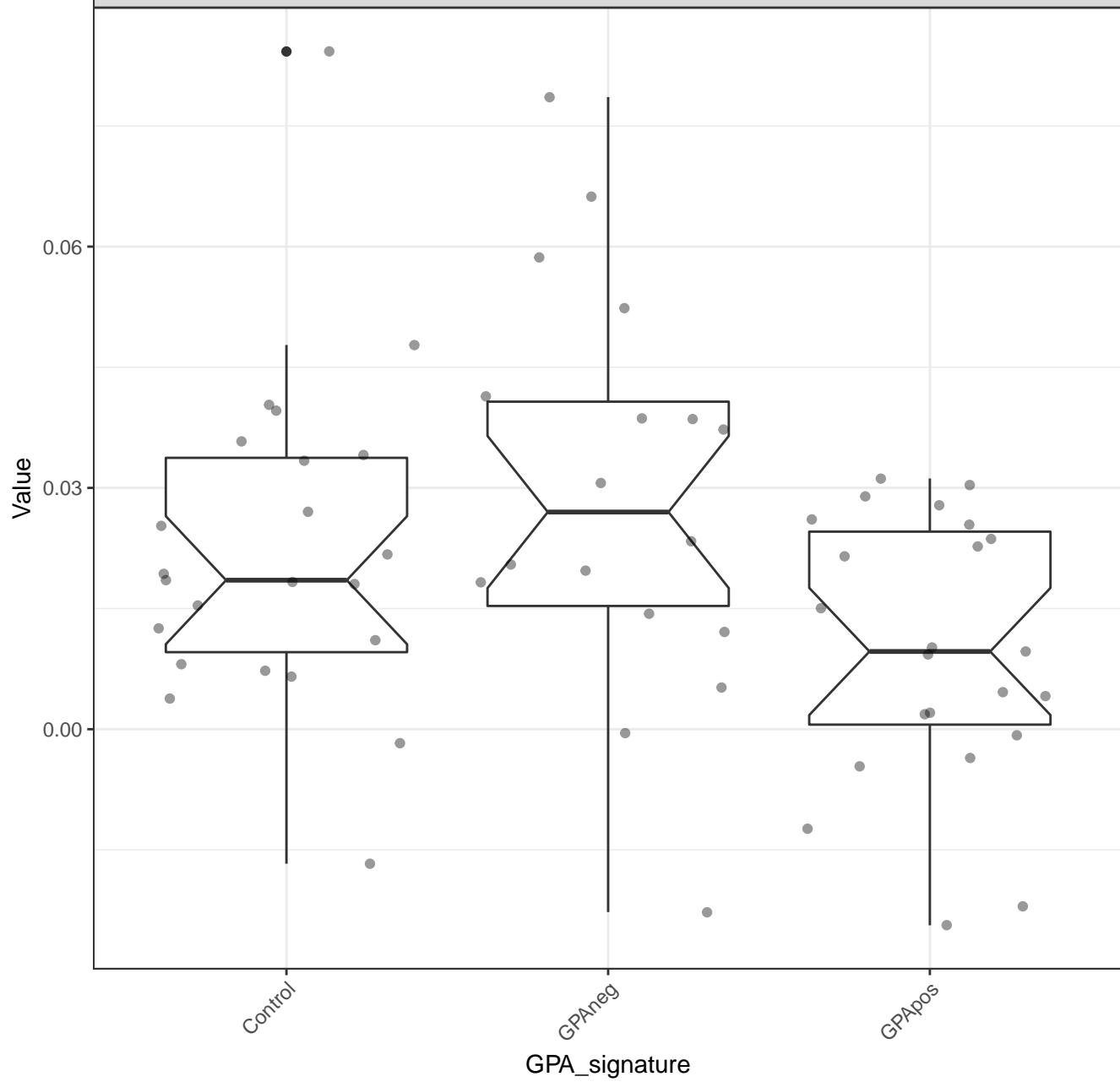
GPAneg

GPApos

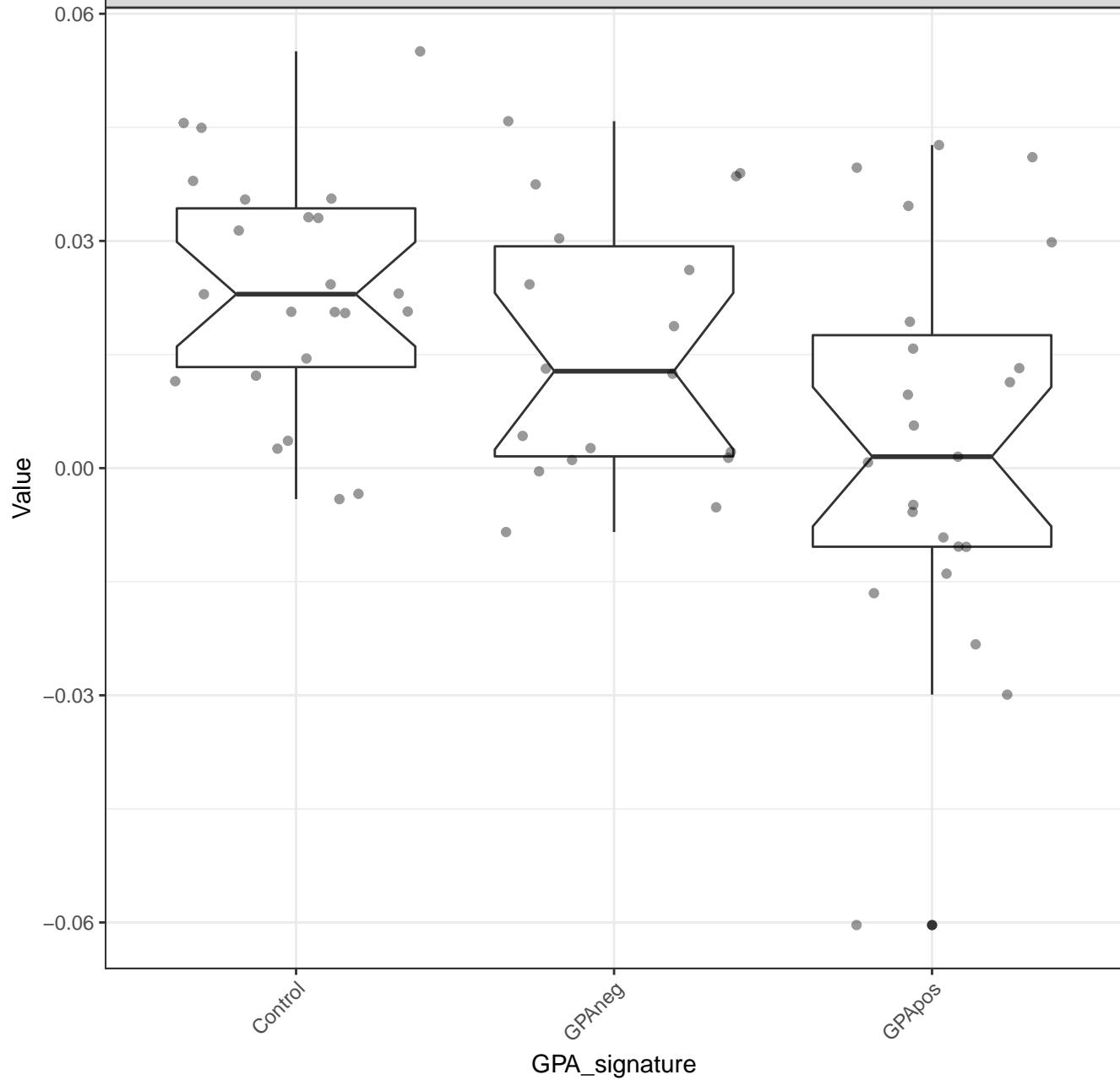


LV 414

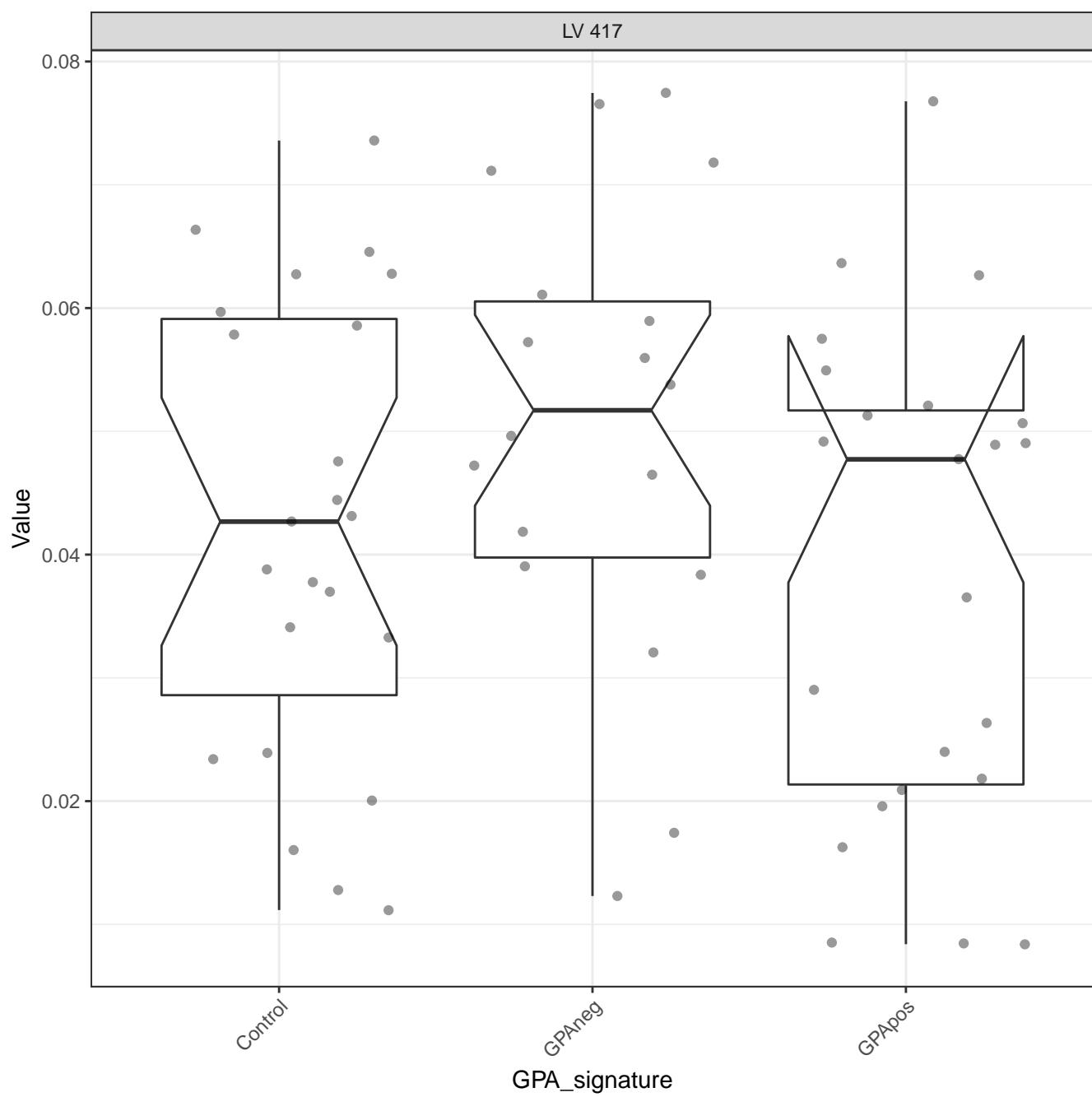


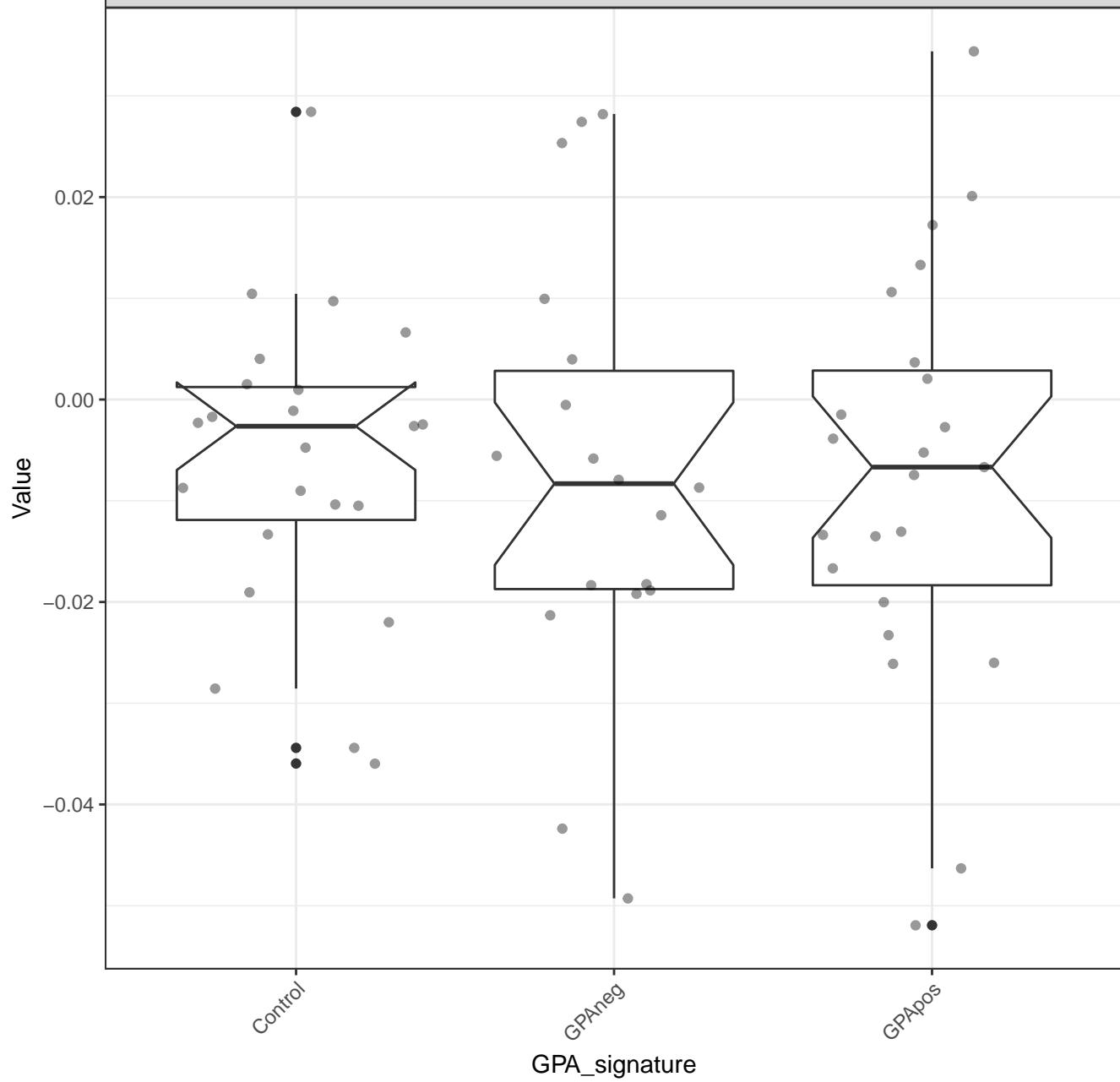


LV 416

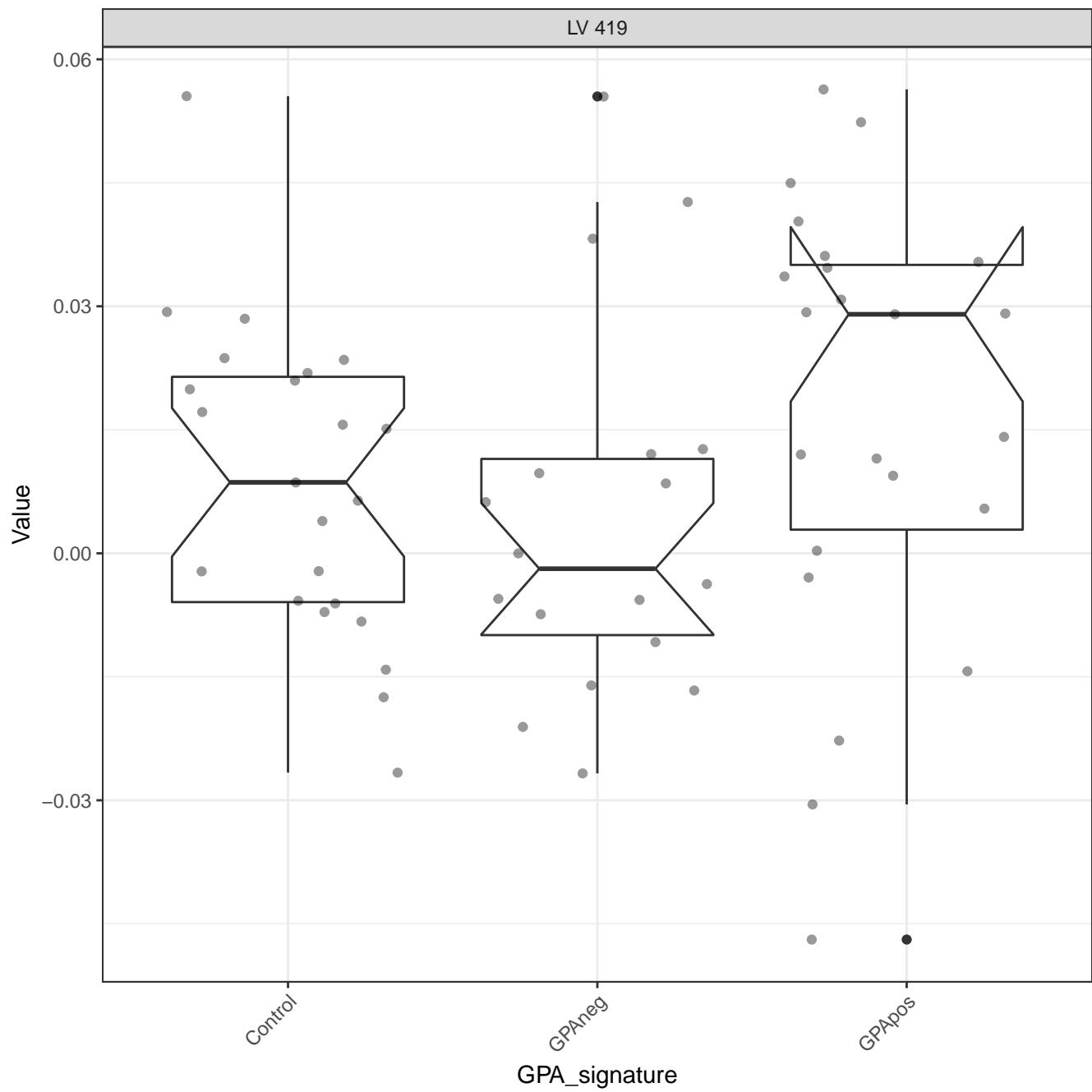


LV 417

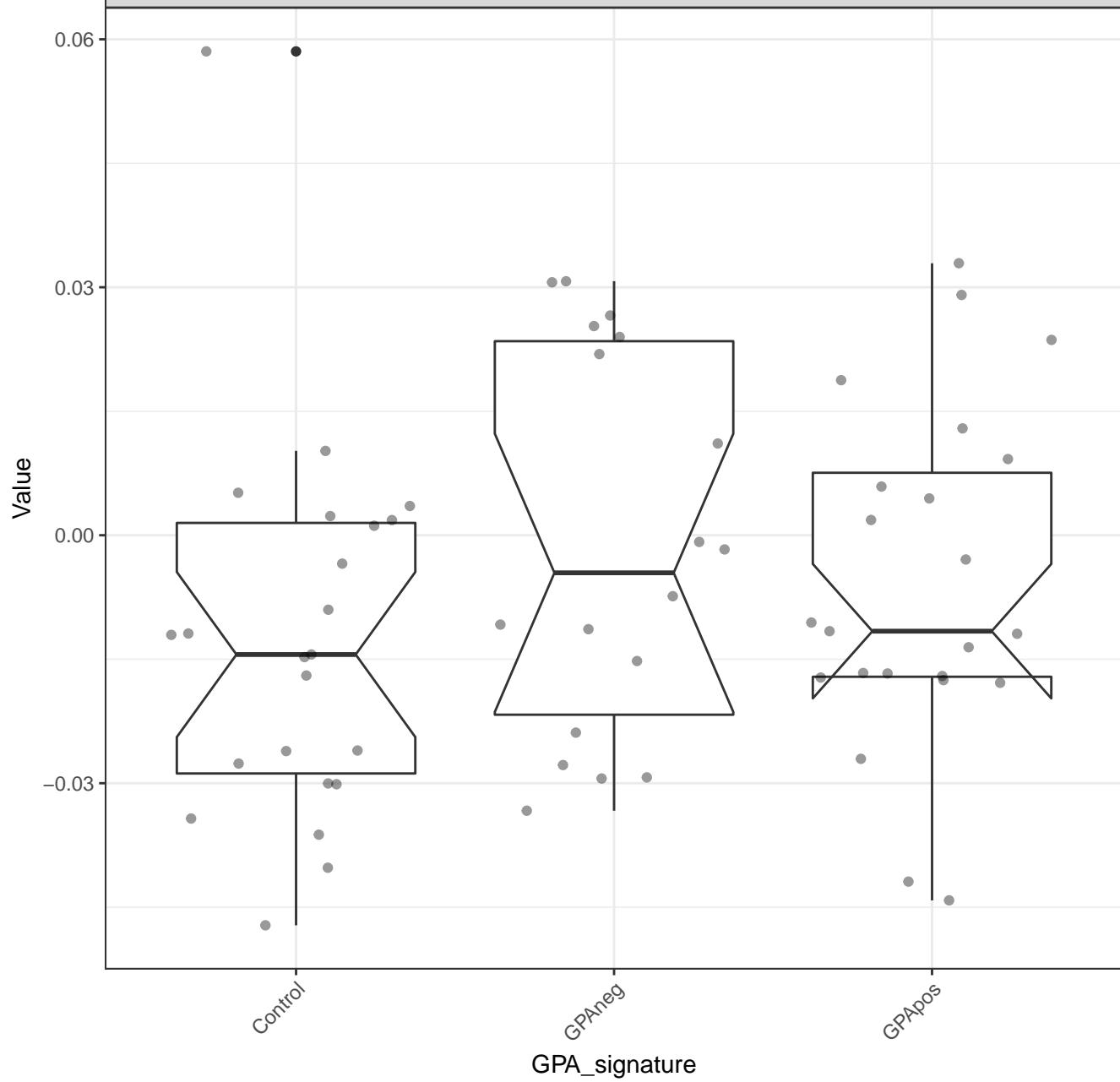




LV 419

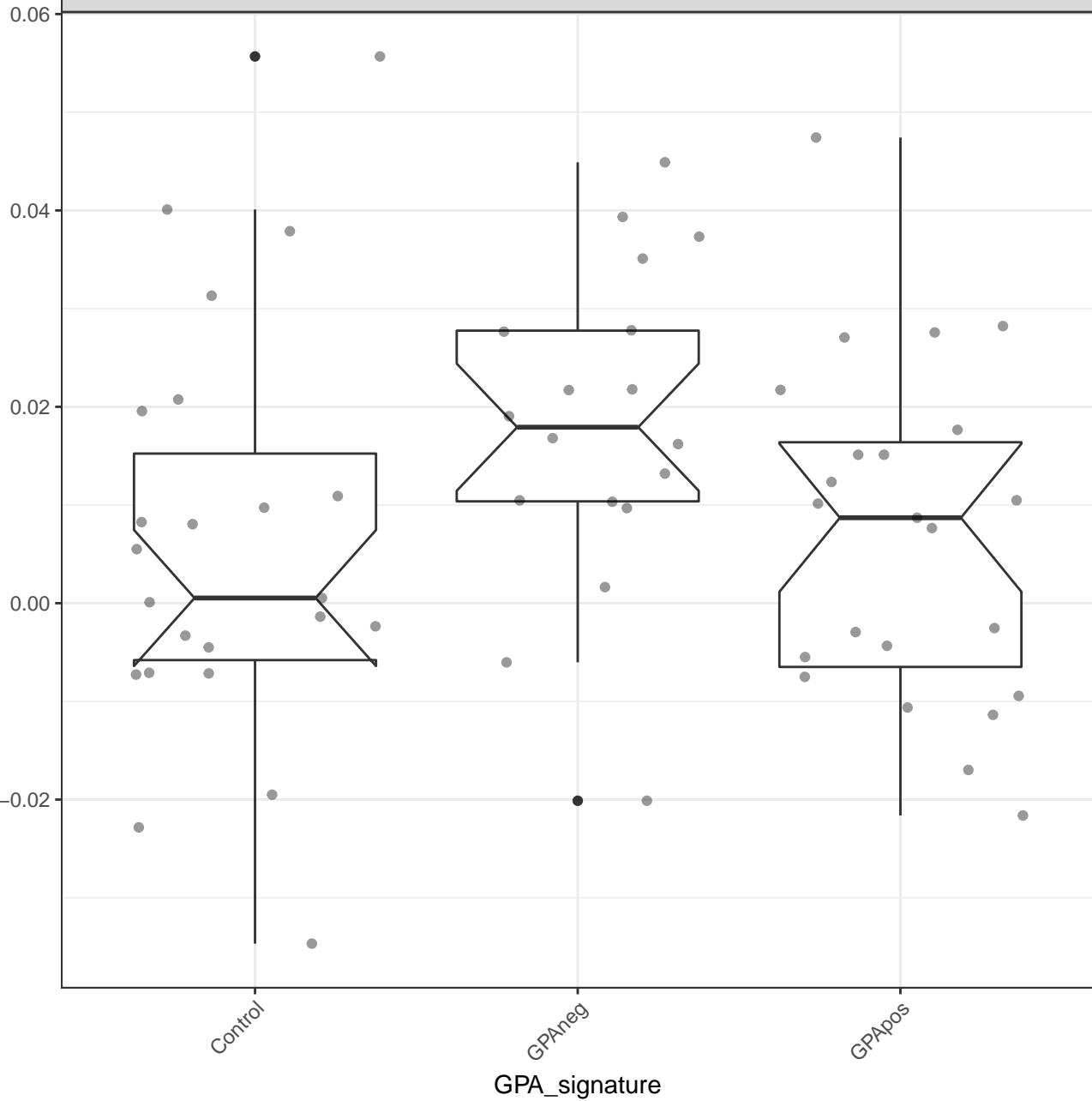


LV 420

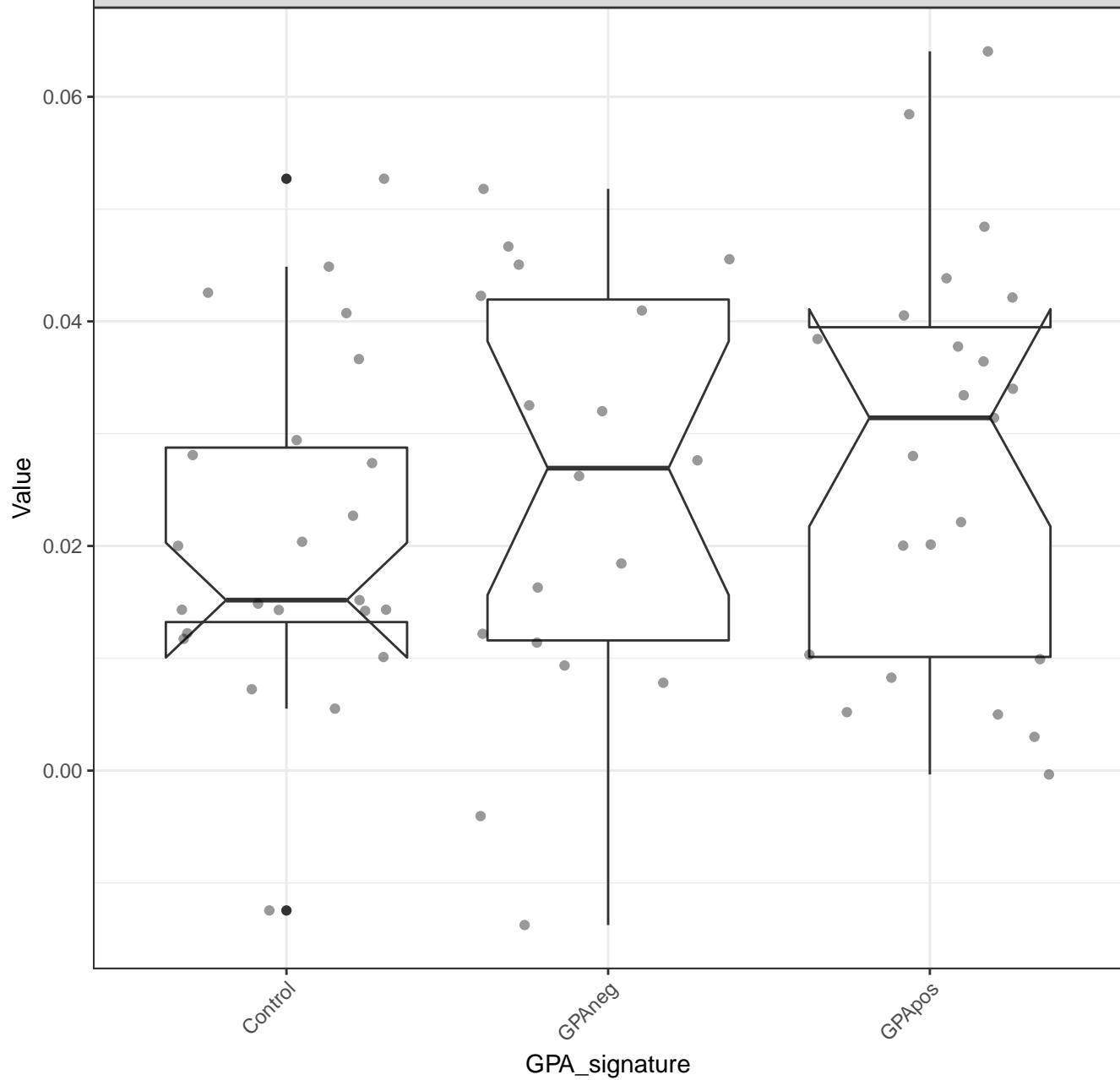


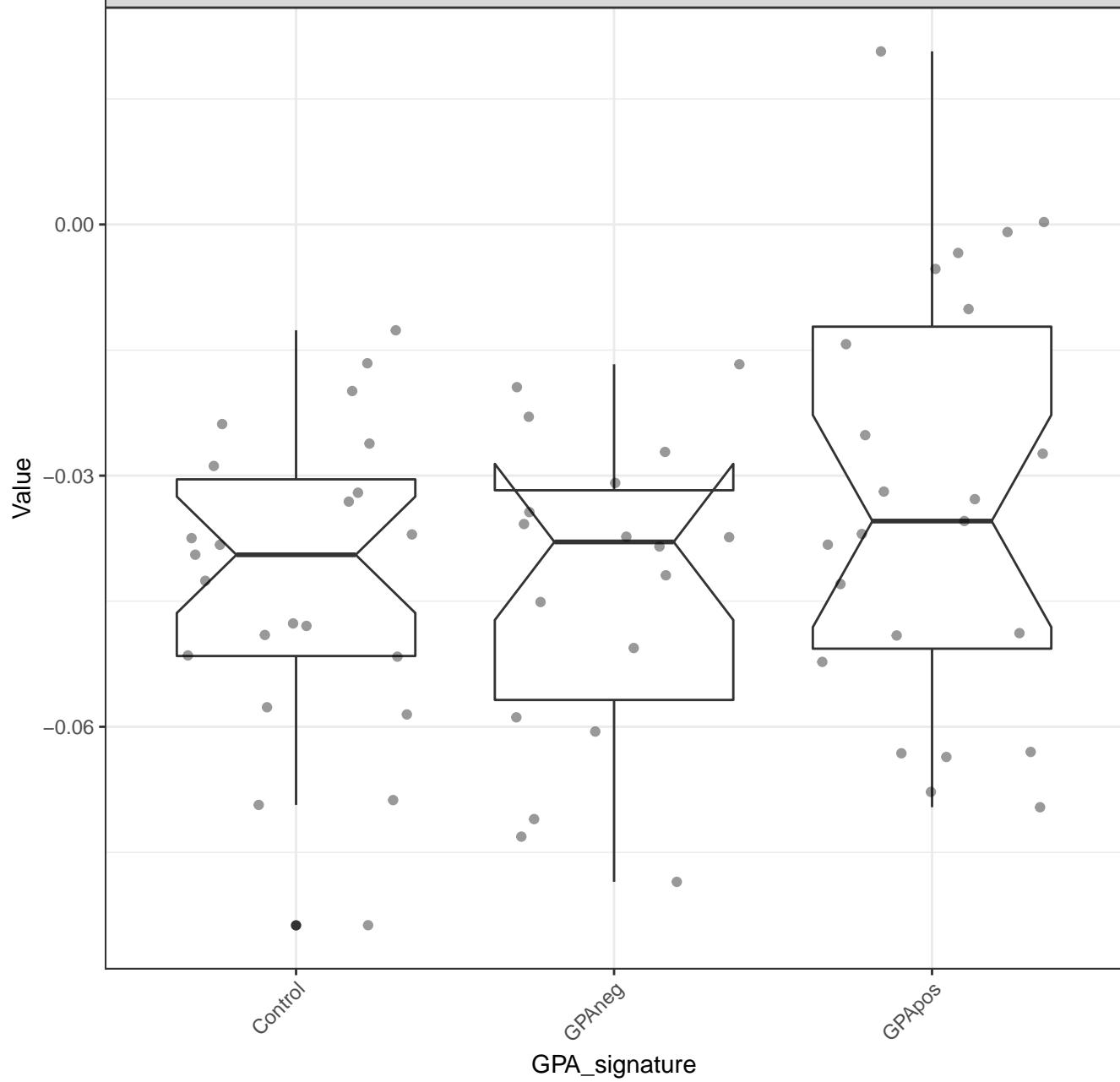
LV 421

Value

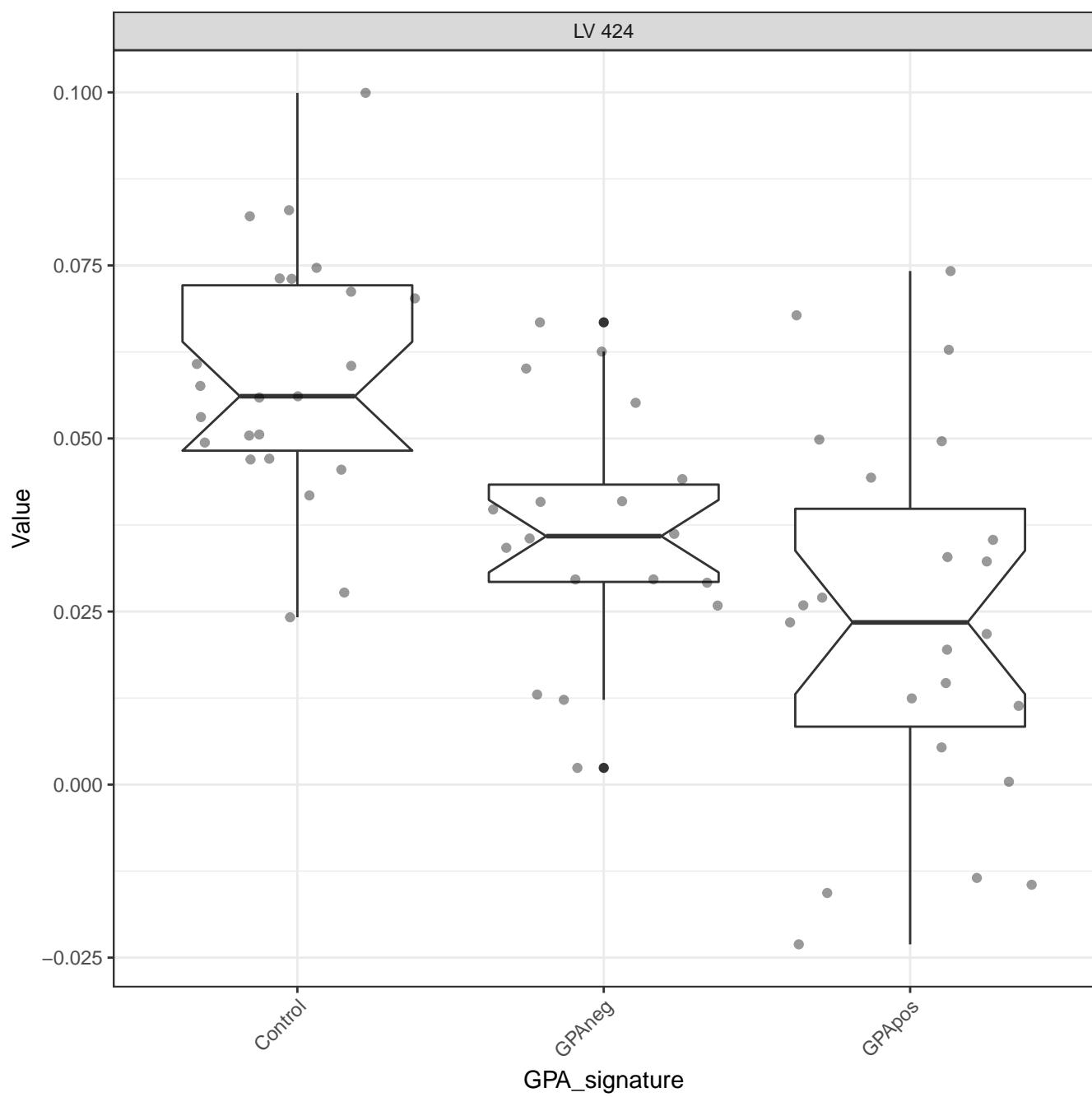


## LV 422

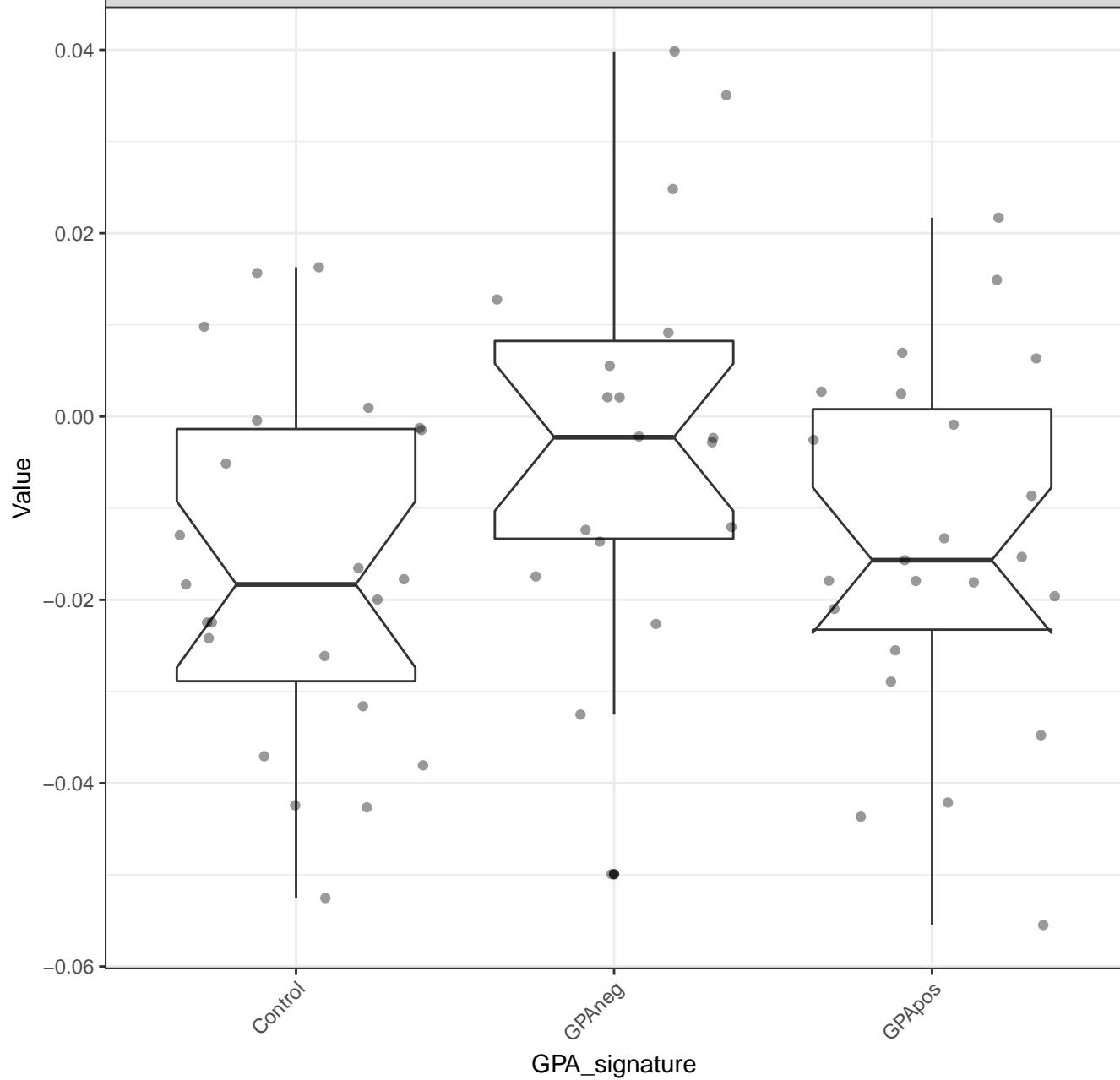




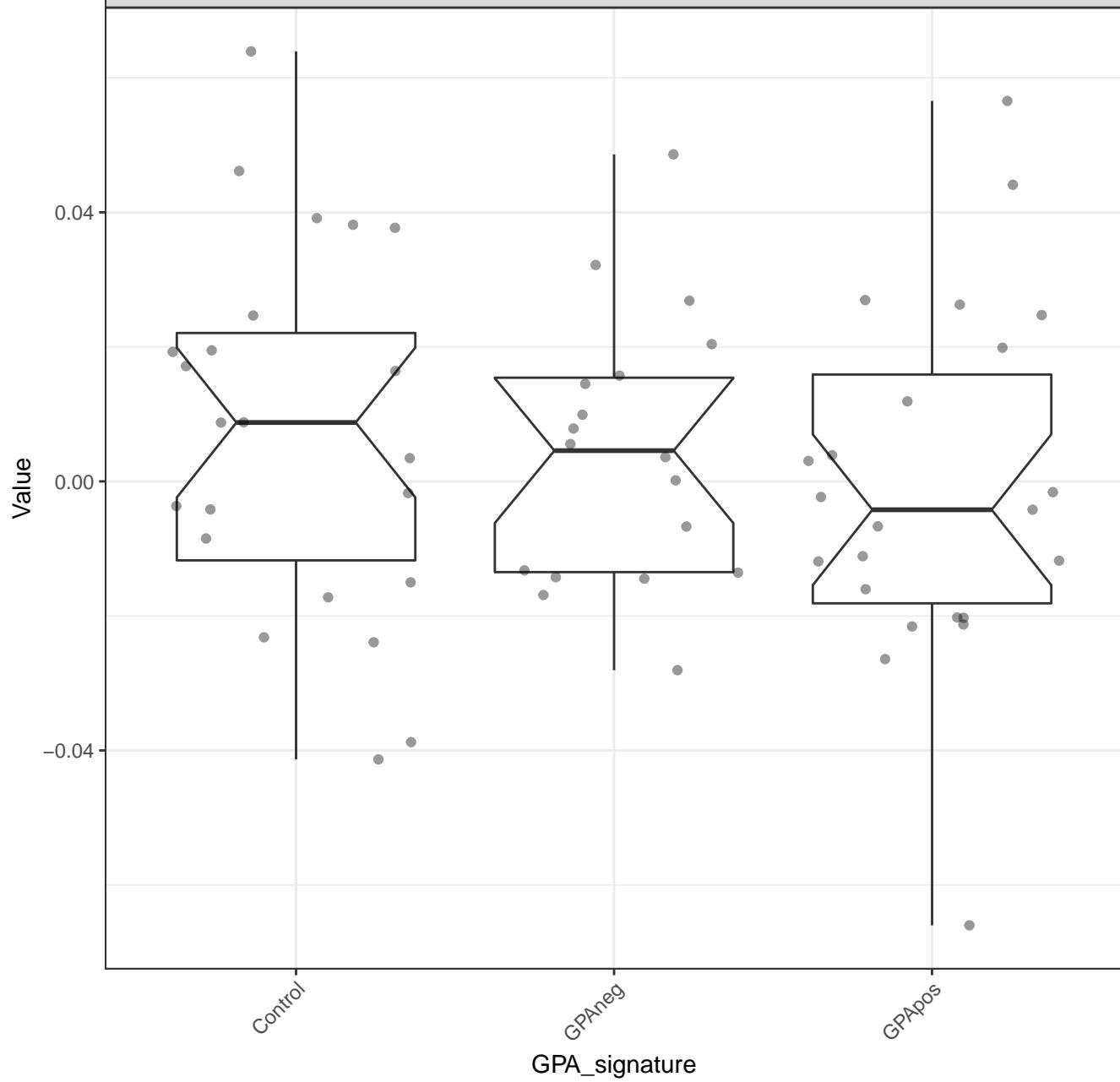
## LV 424



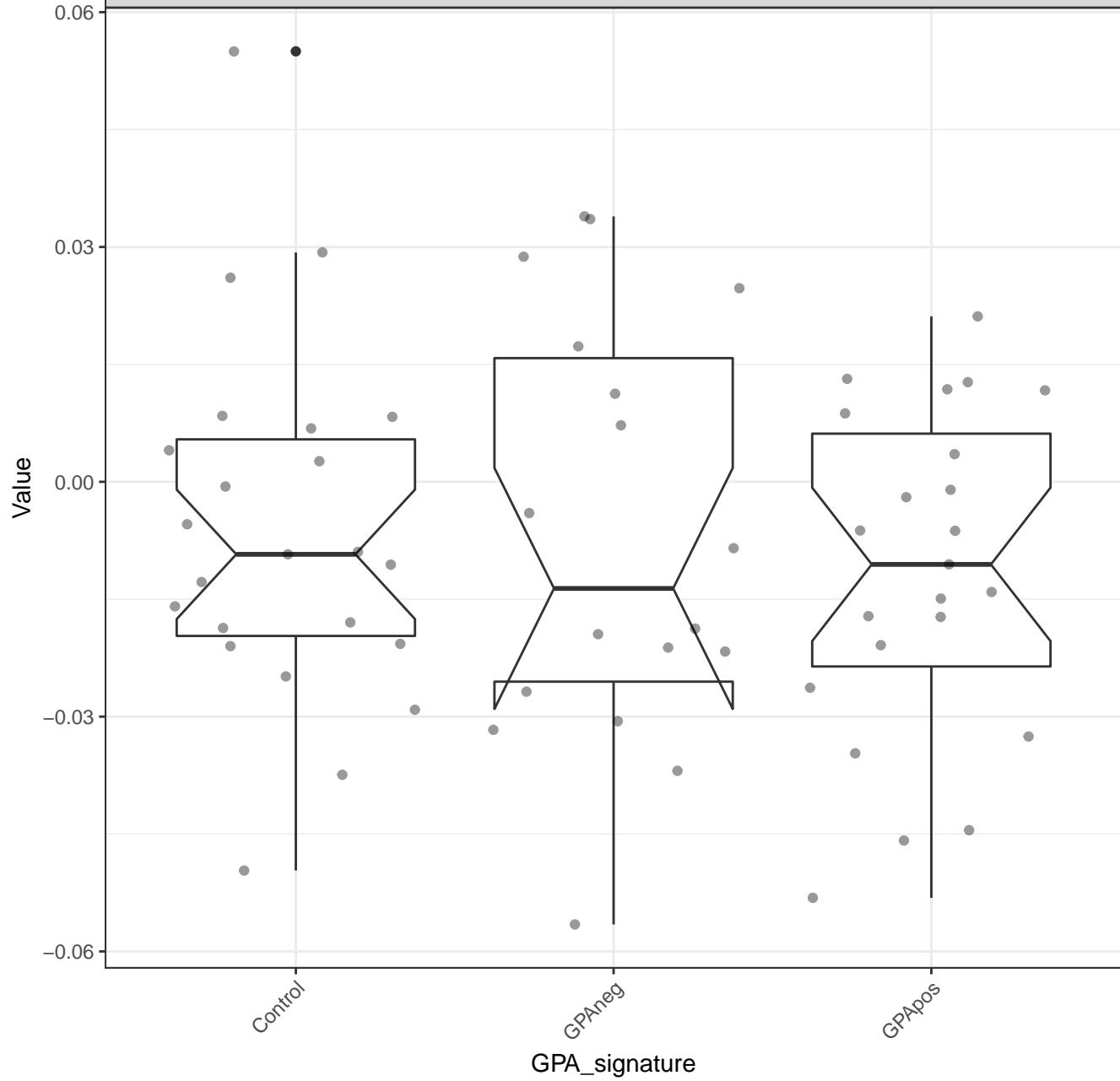
LV 425



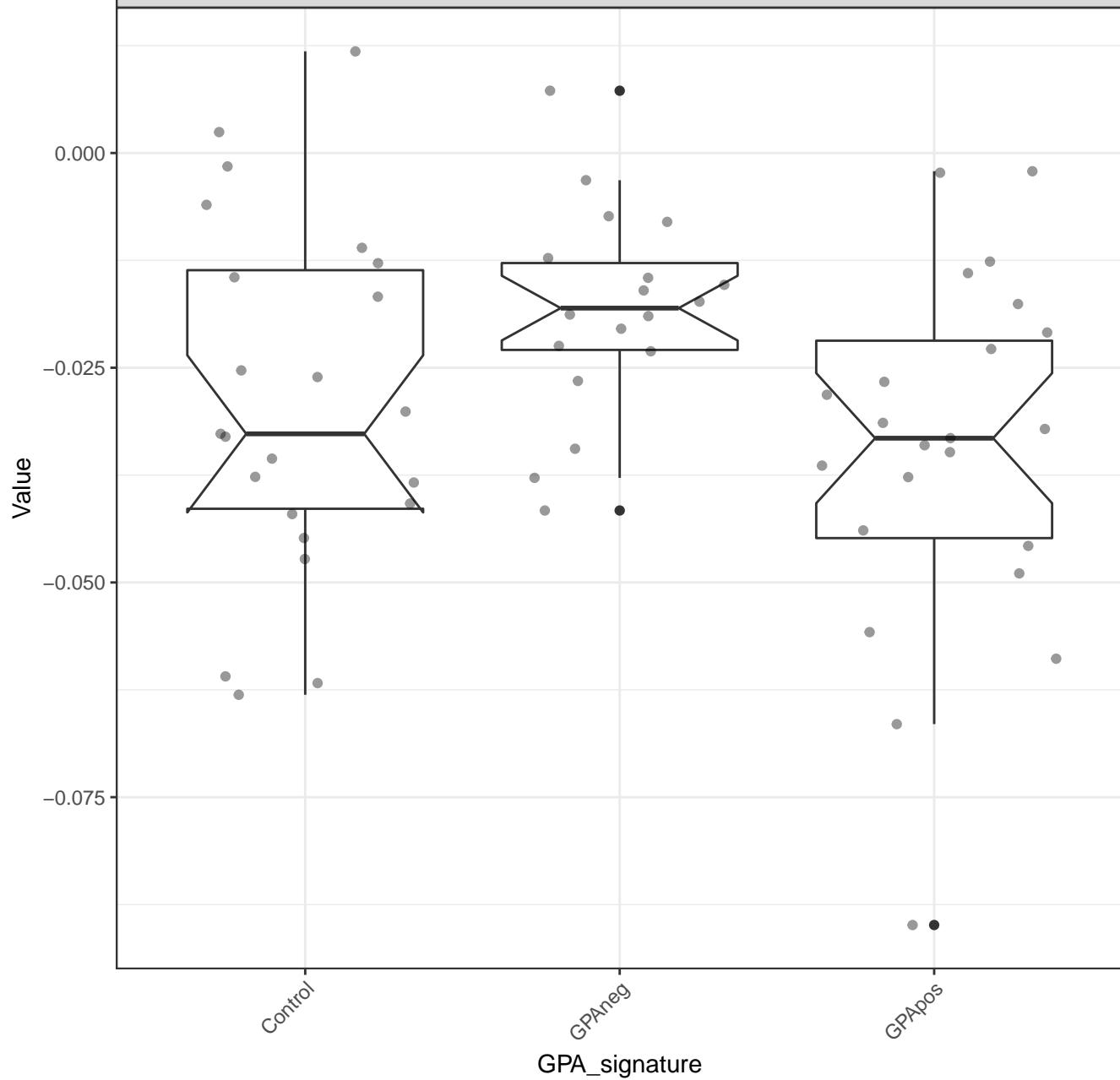
LV 426



LV 427



## LV 428



LV 429

Value

0.05

0.00

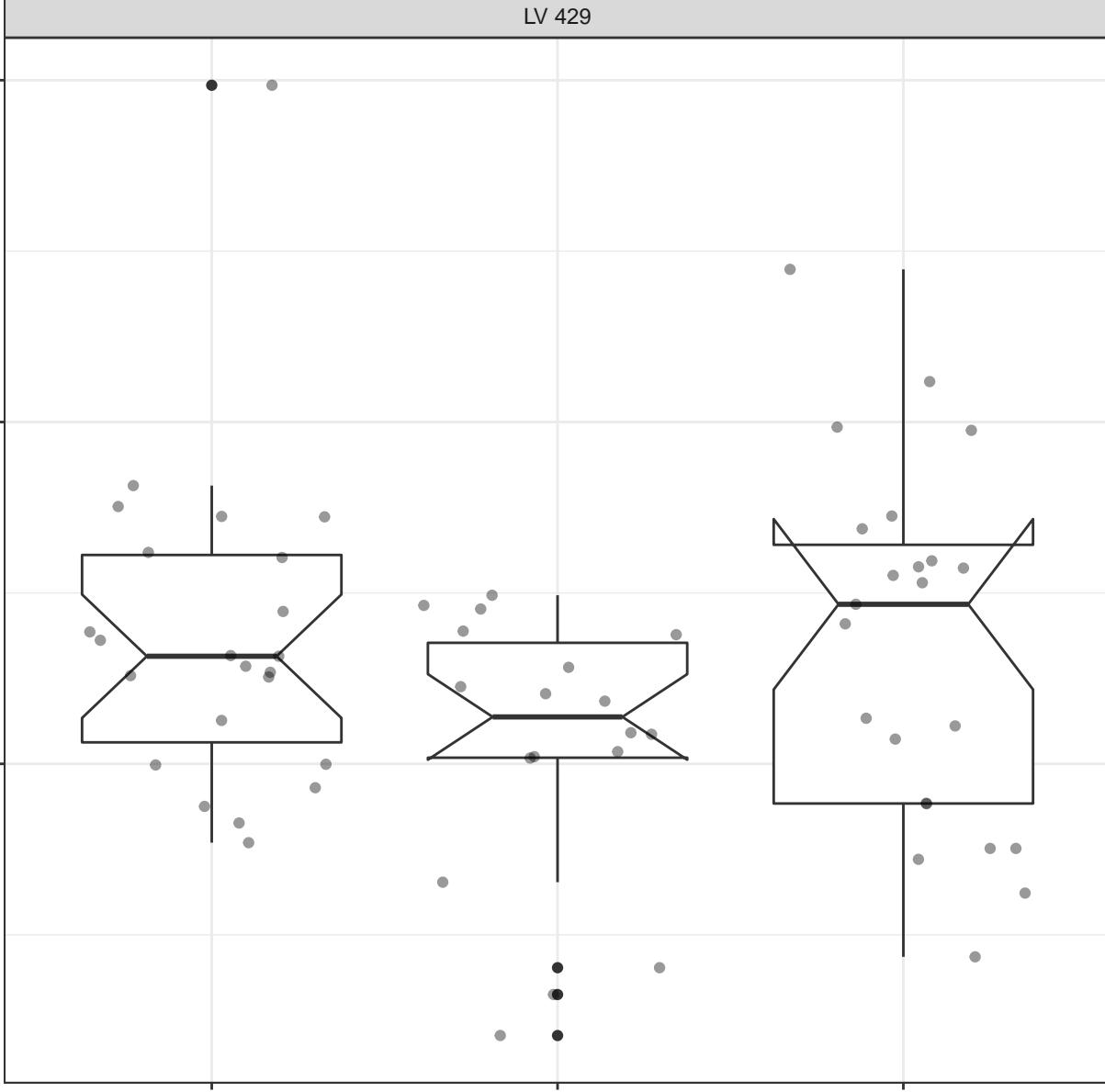
-0.05

Control

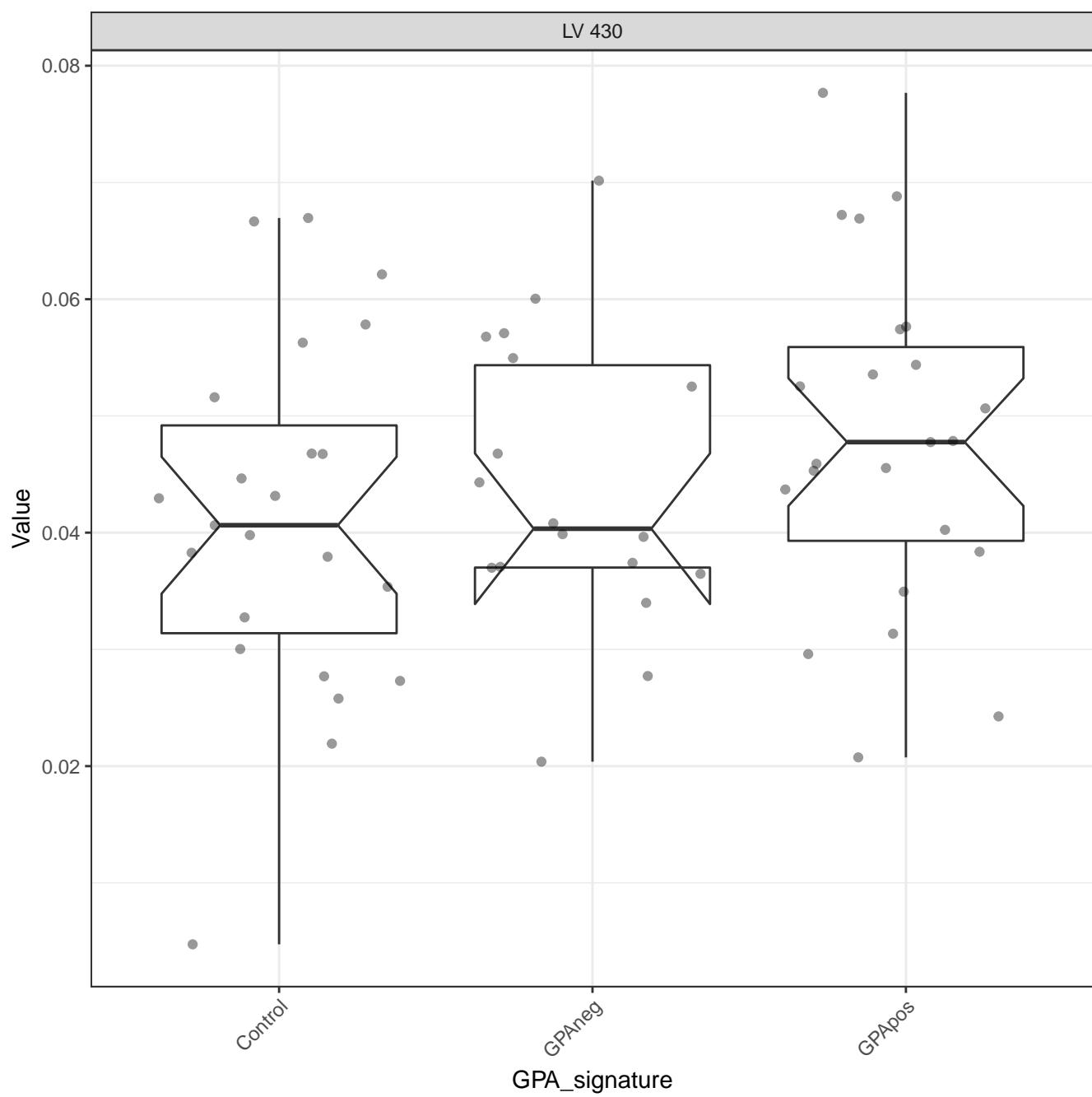
GPAneg

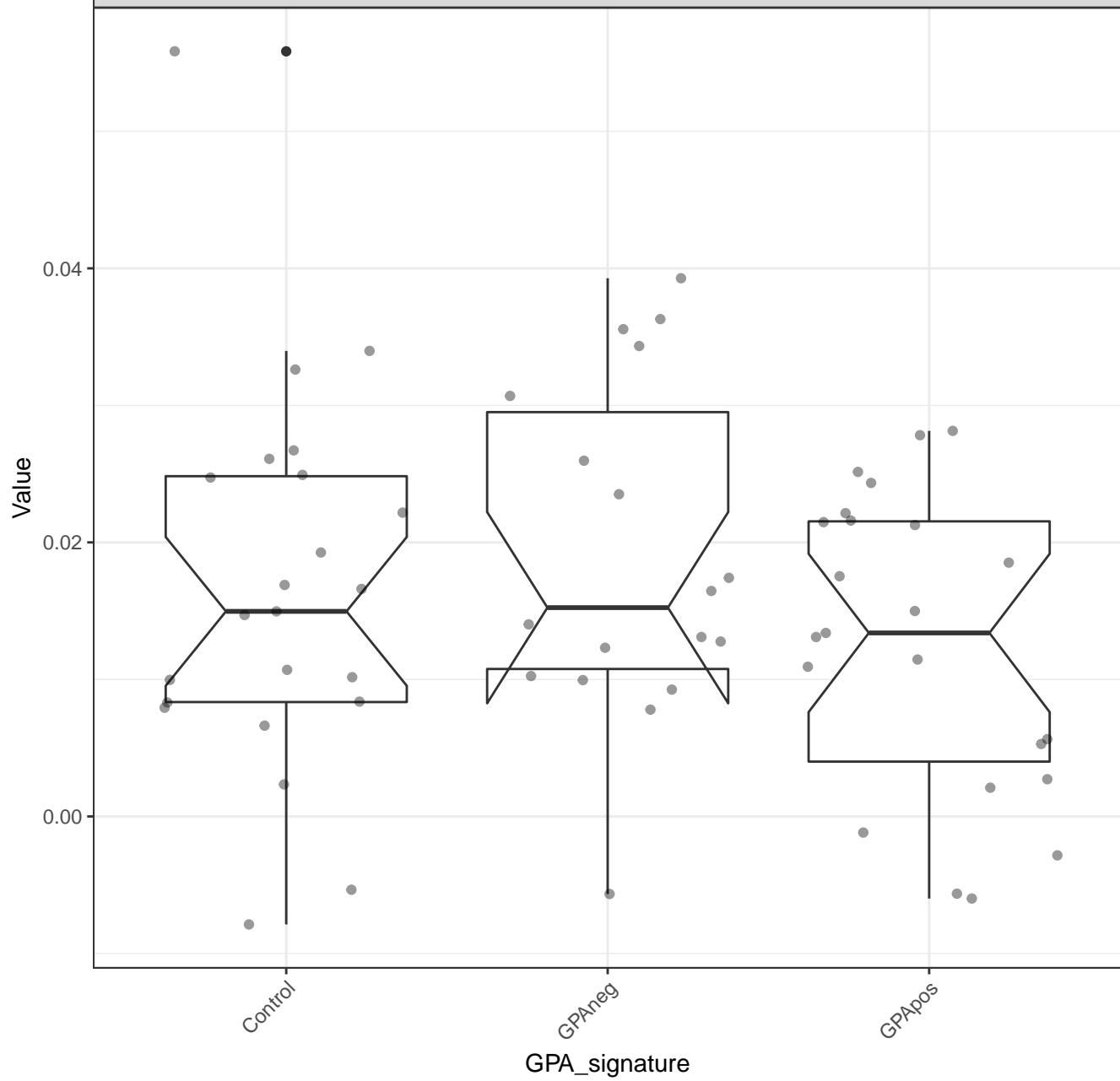
GPApos

GPA\_signature

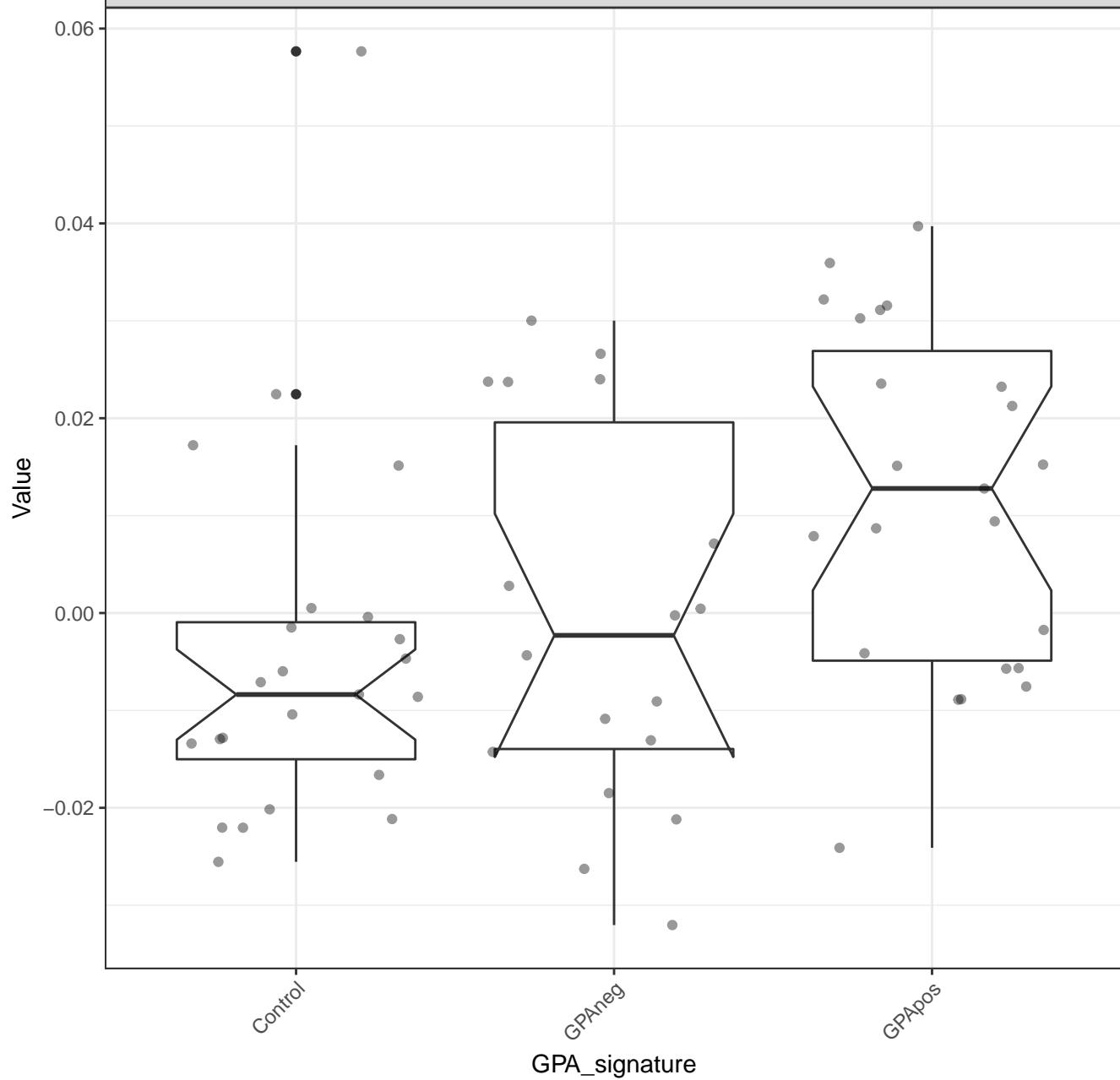


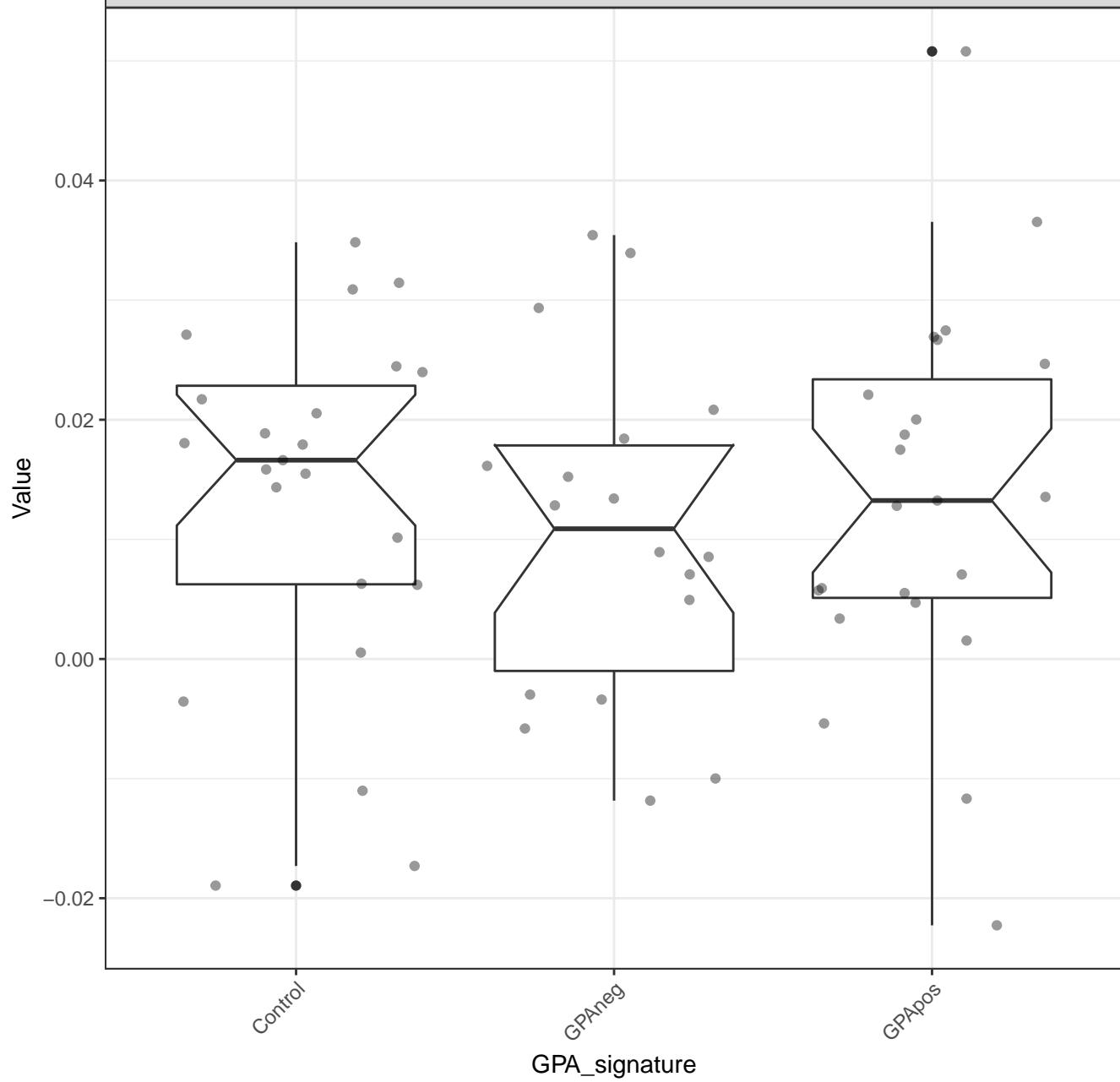
LV 430



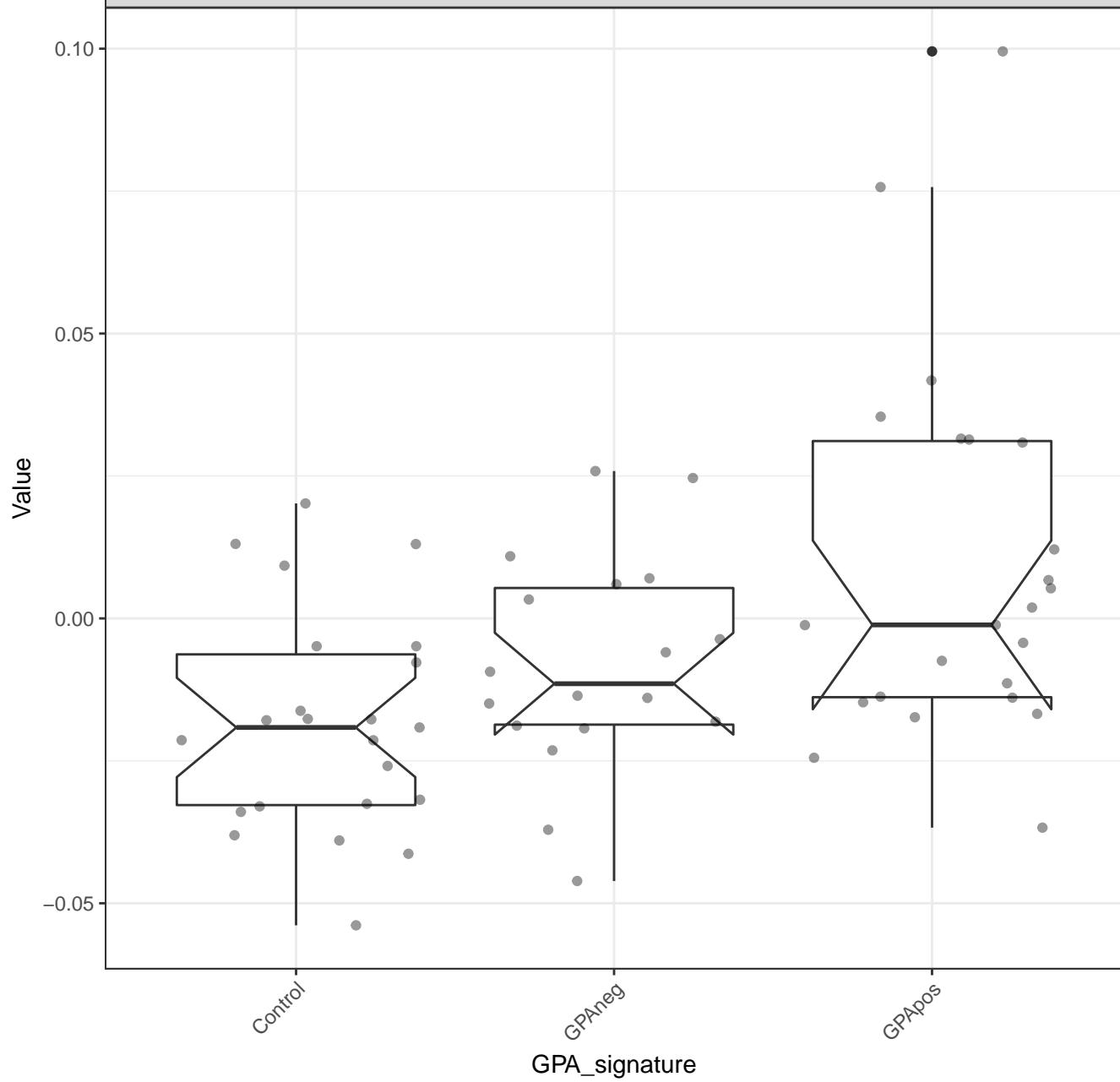


LV 432

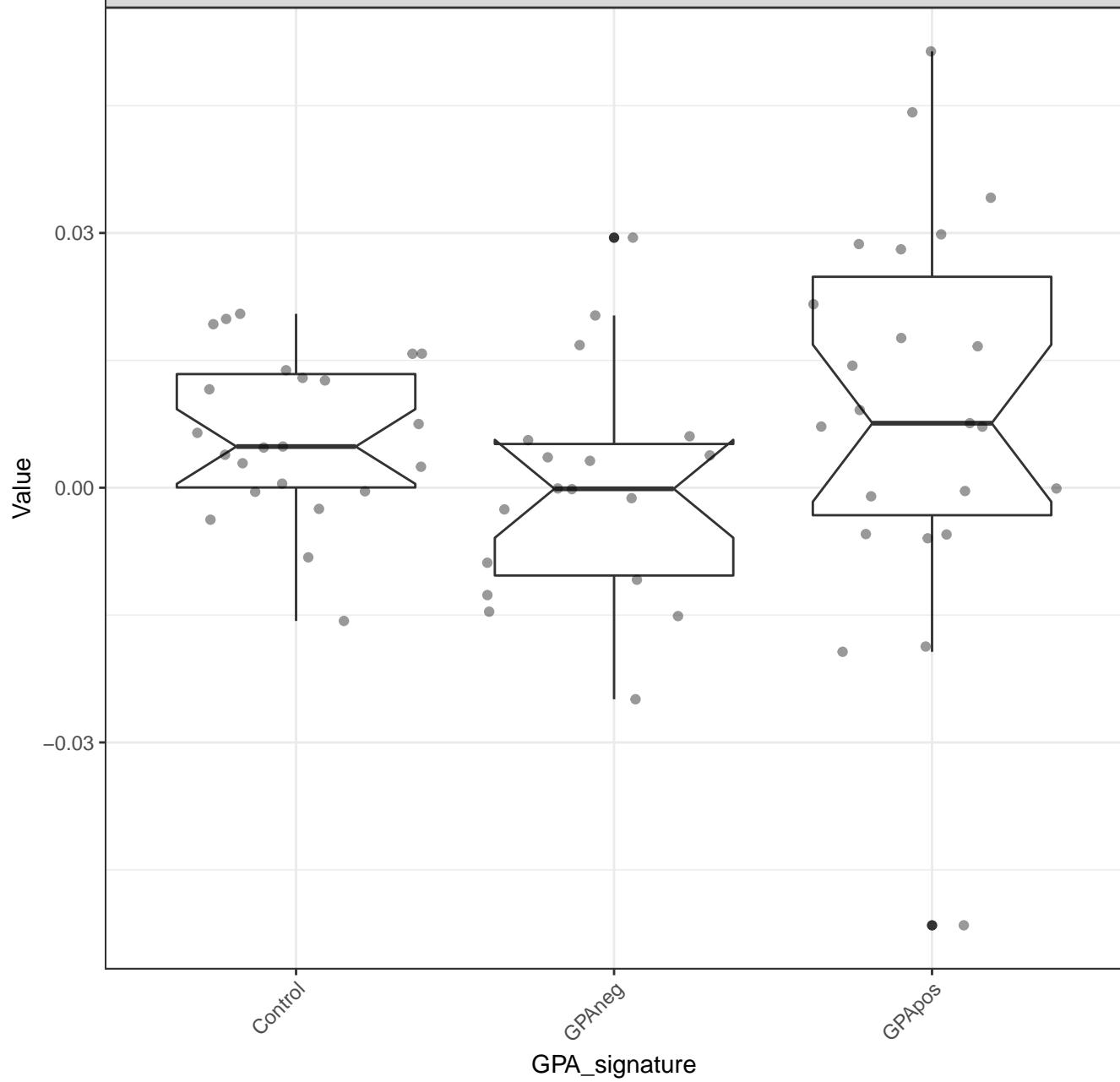




LV 434



LV 435



LV 436

Value

0.04

0.02

0.00

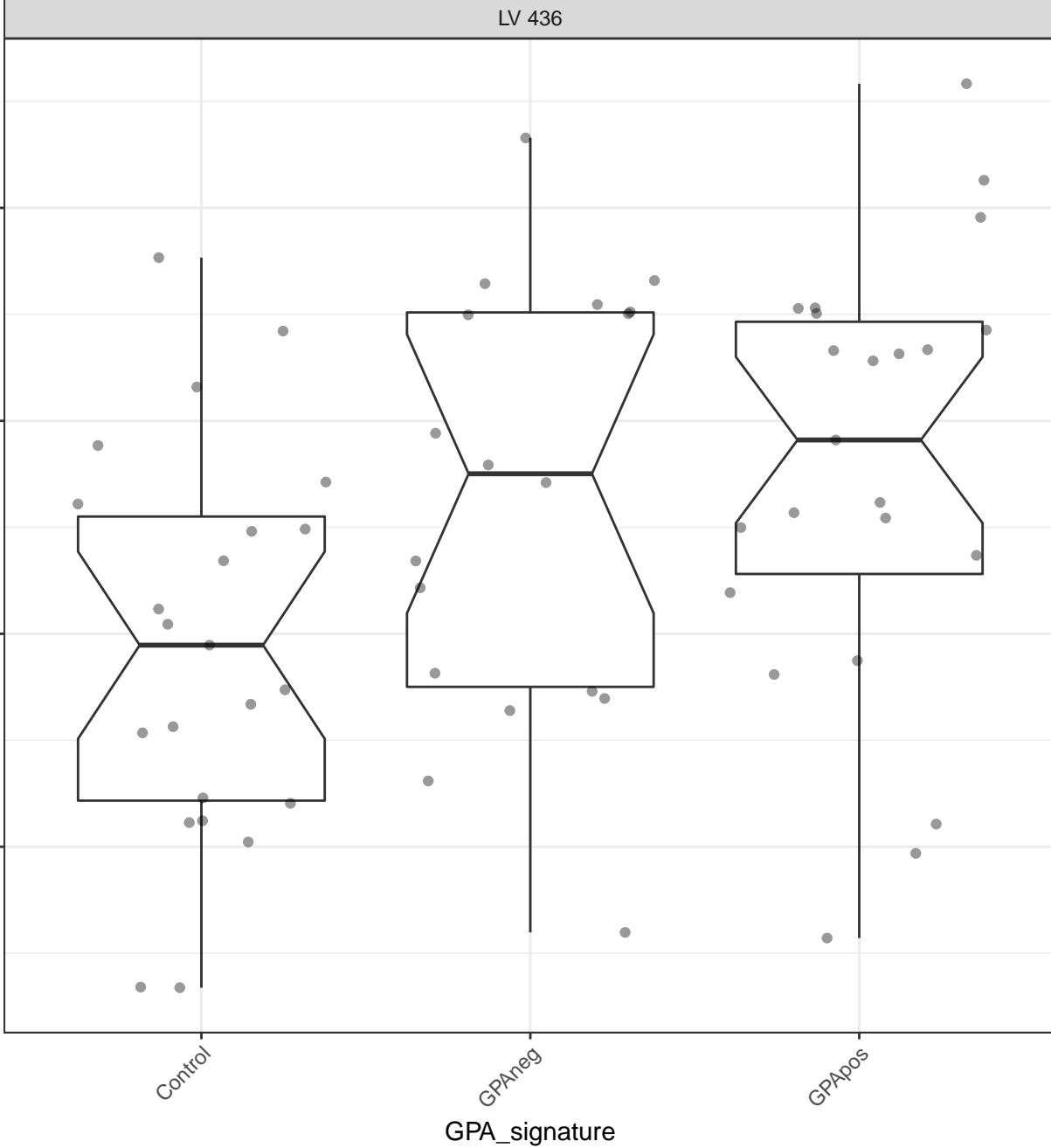
-0.02

Control

GPAneg

GPAPos

GPA\_signature



## LV 437

Value

0.025

0.000

-0.025

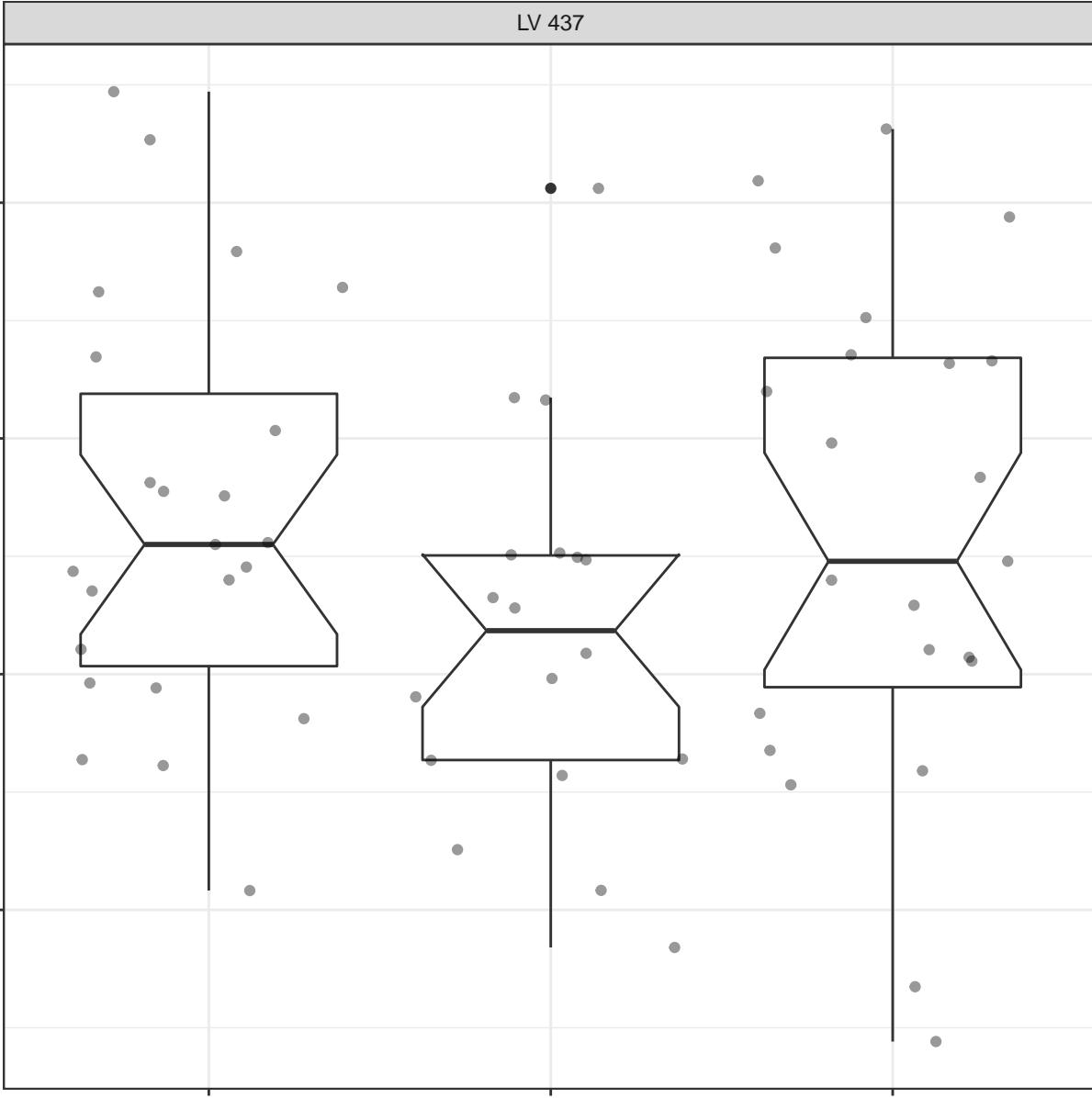
-0.050

Control

GPA\_signature

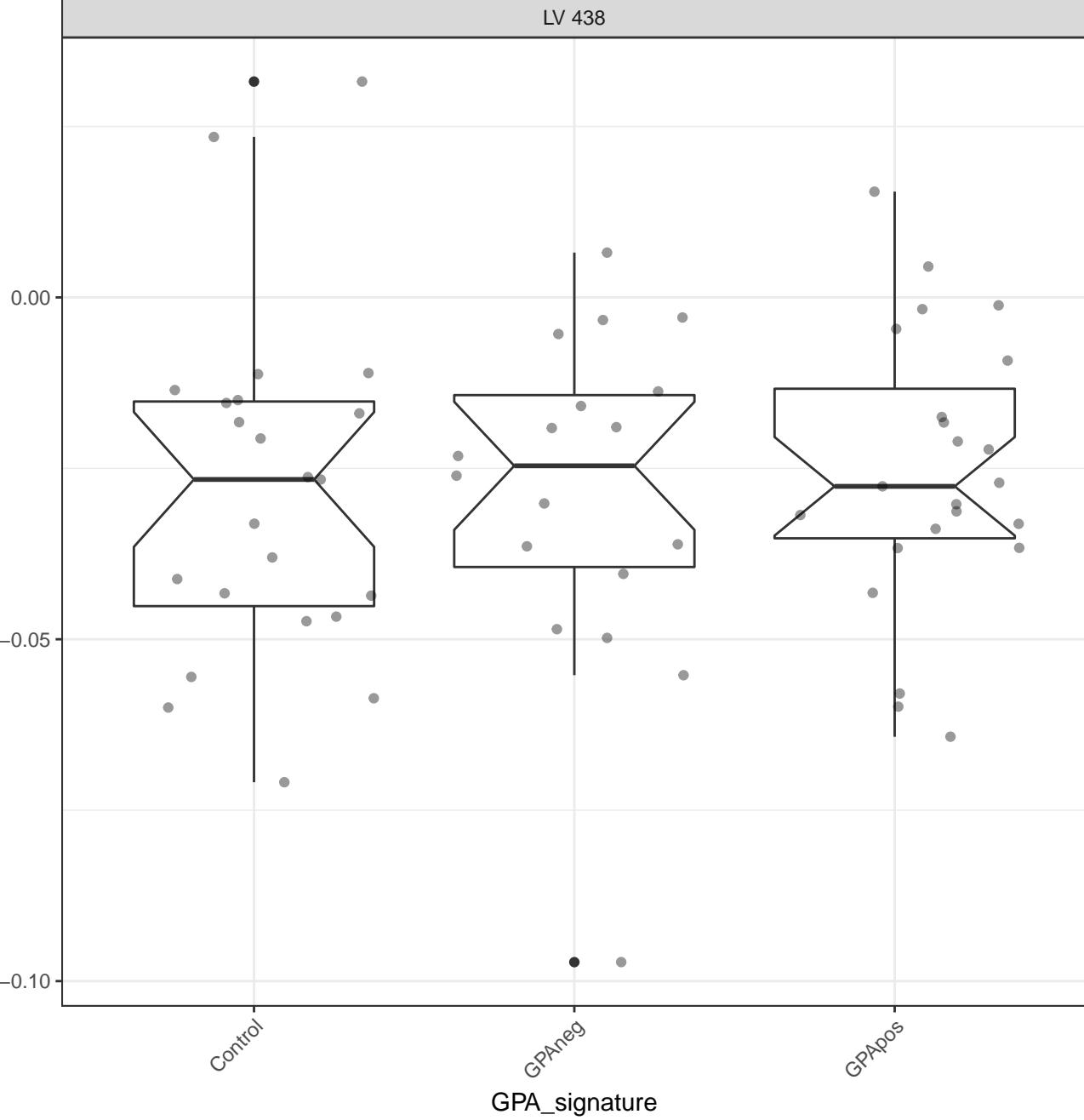
GPAneg

GPAPos



## LV 438

Value



LV 439

Value

0.100

0.075

0.050

0.025

0.000

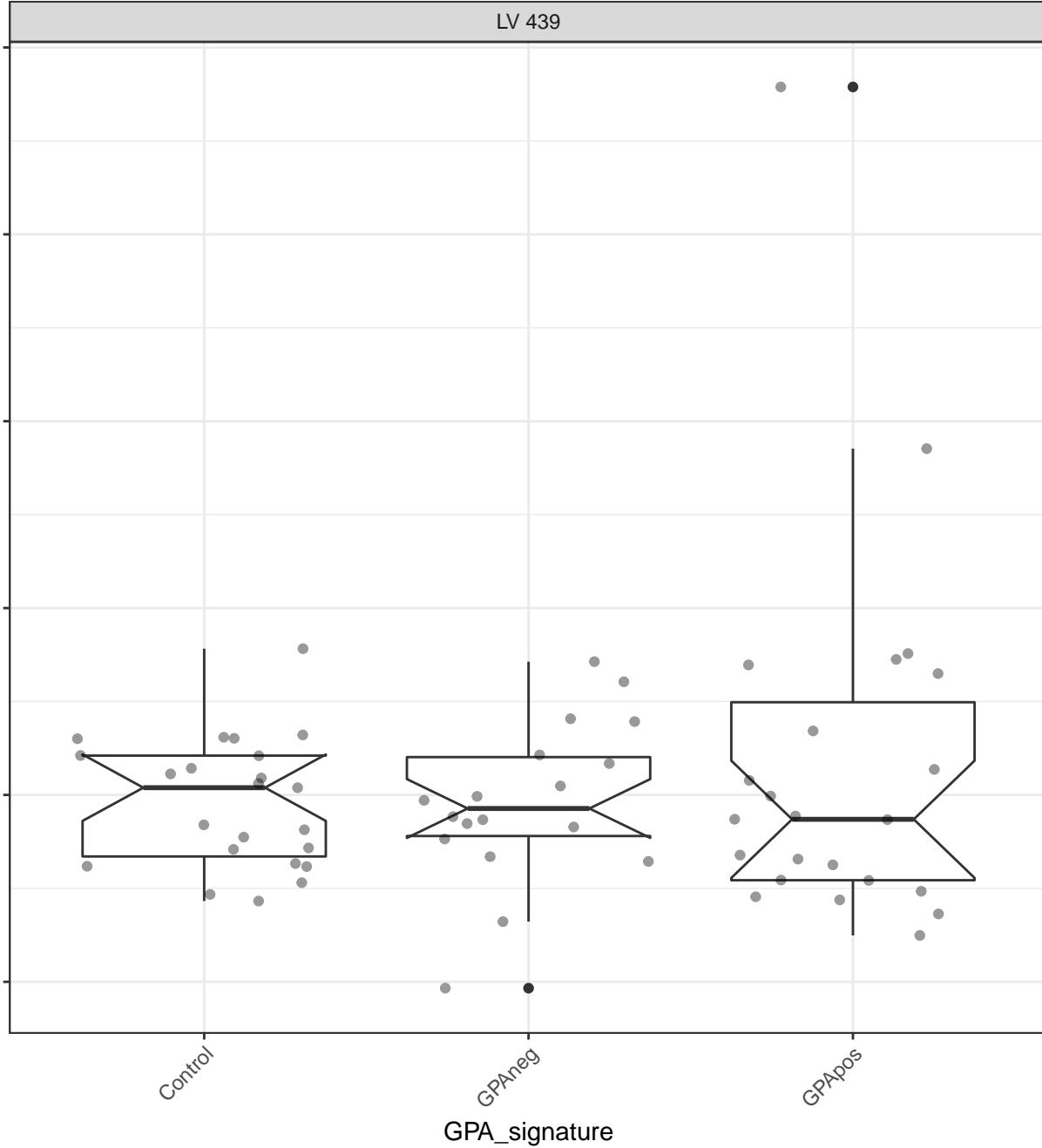
-0.025

Control

GPAneg

GPApos

GPA\_signature



## LV 440

Value

0.050

0.025

0.000

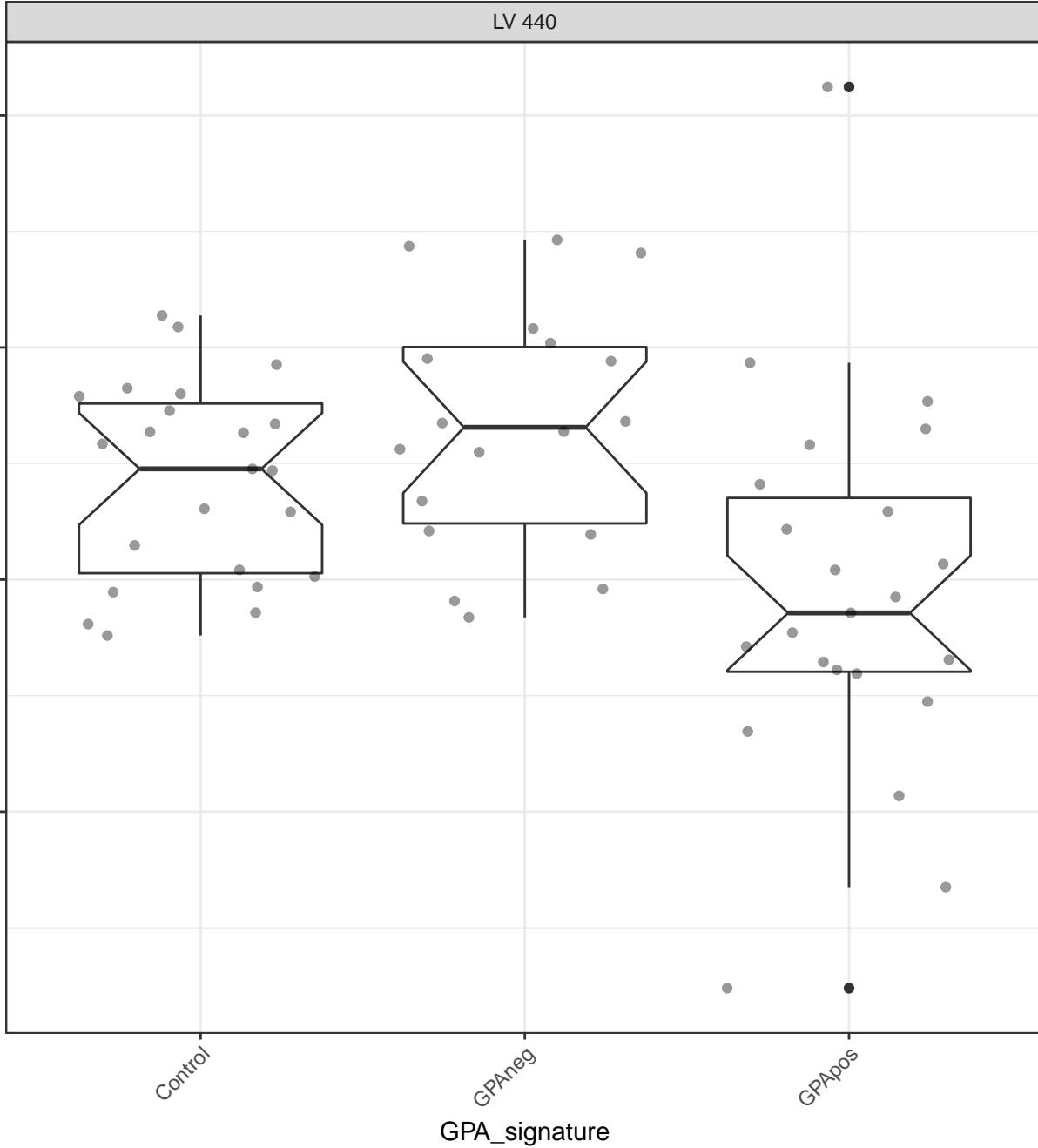
-0.025

Control

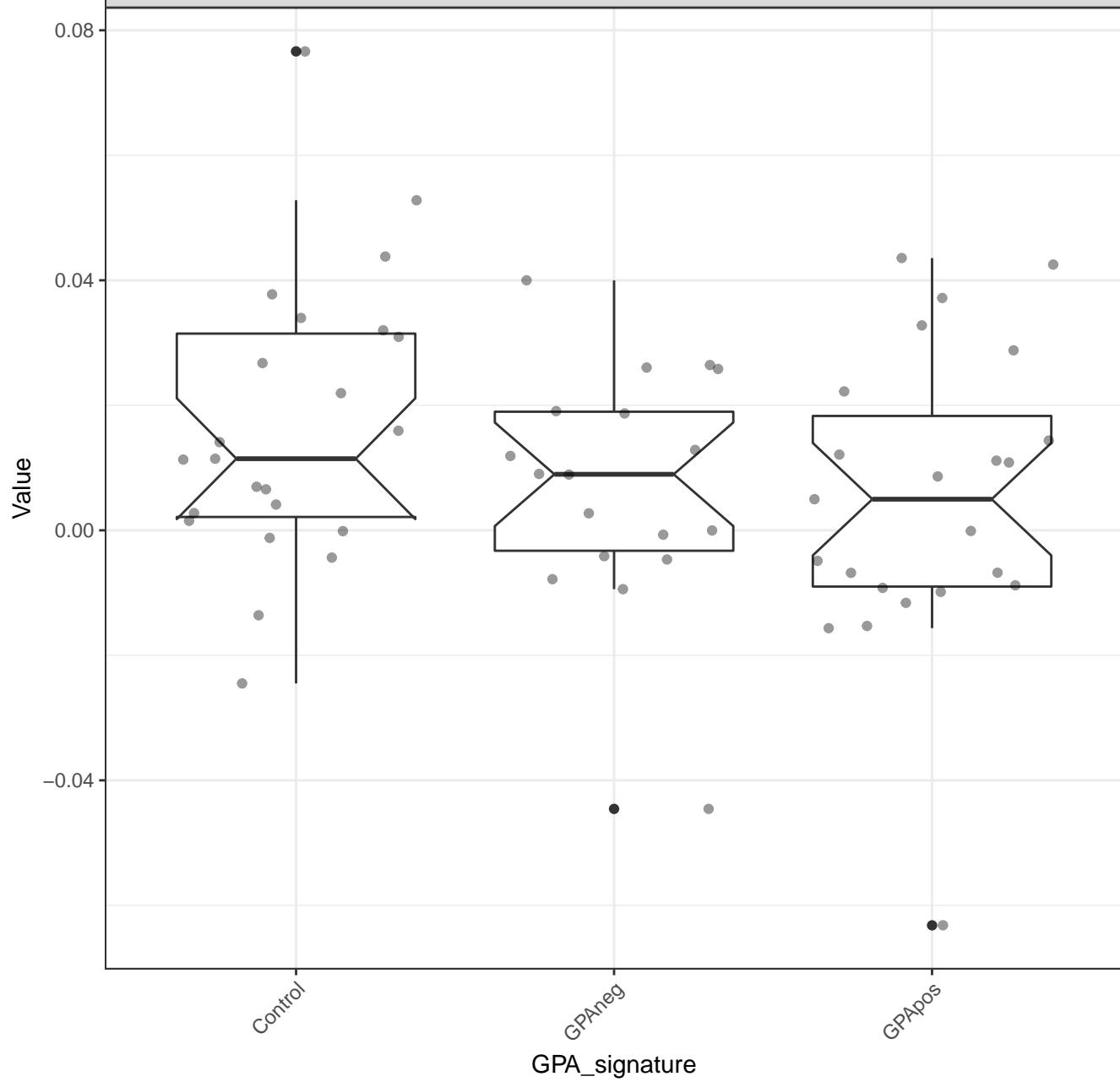
GPAneg

GPAPos

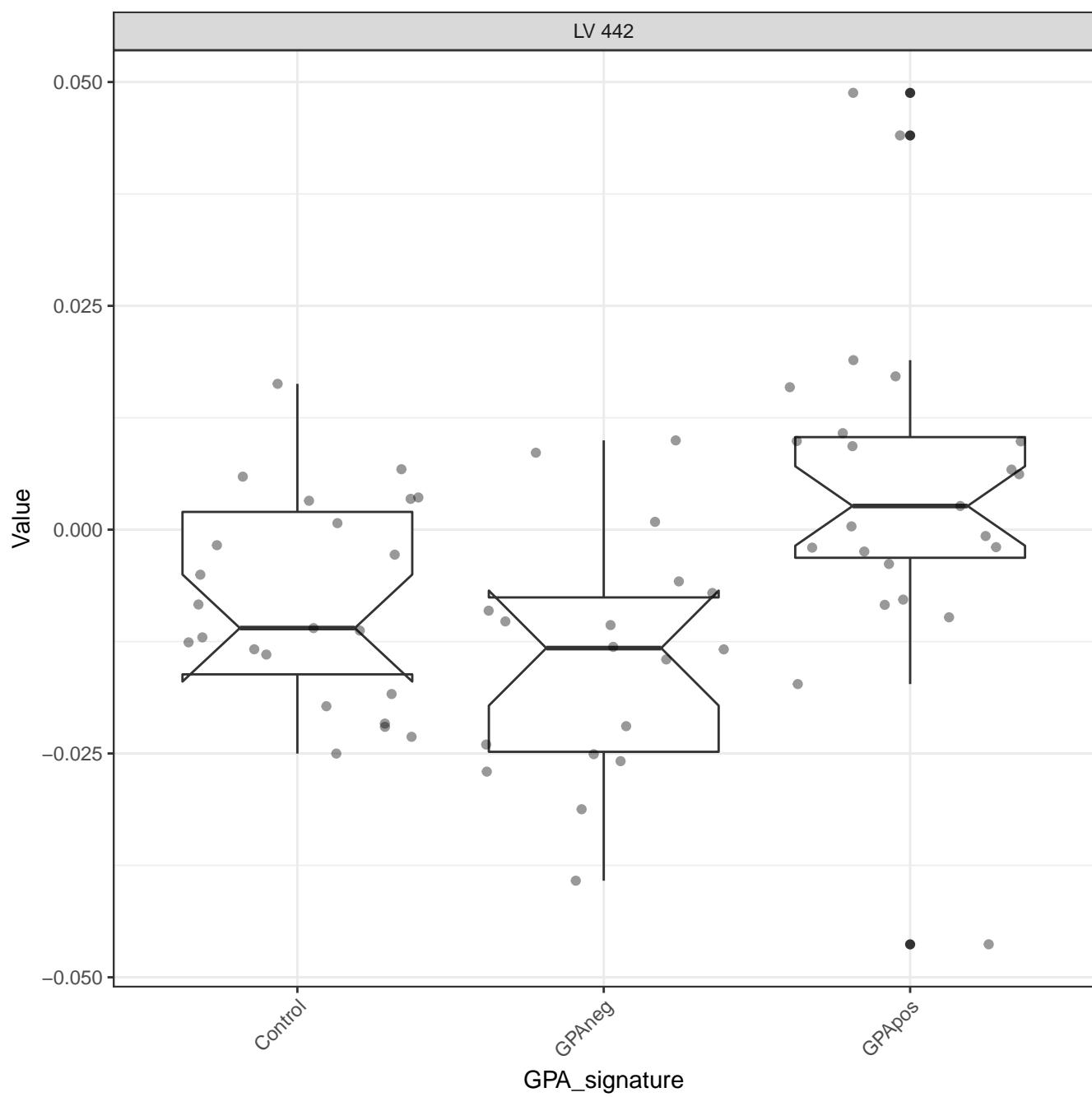
GPA\_signature



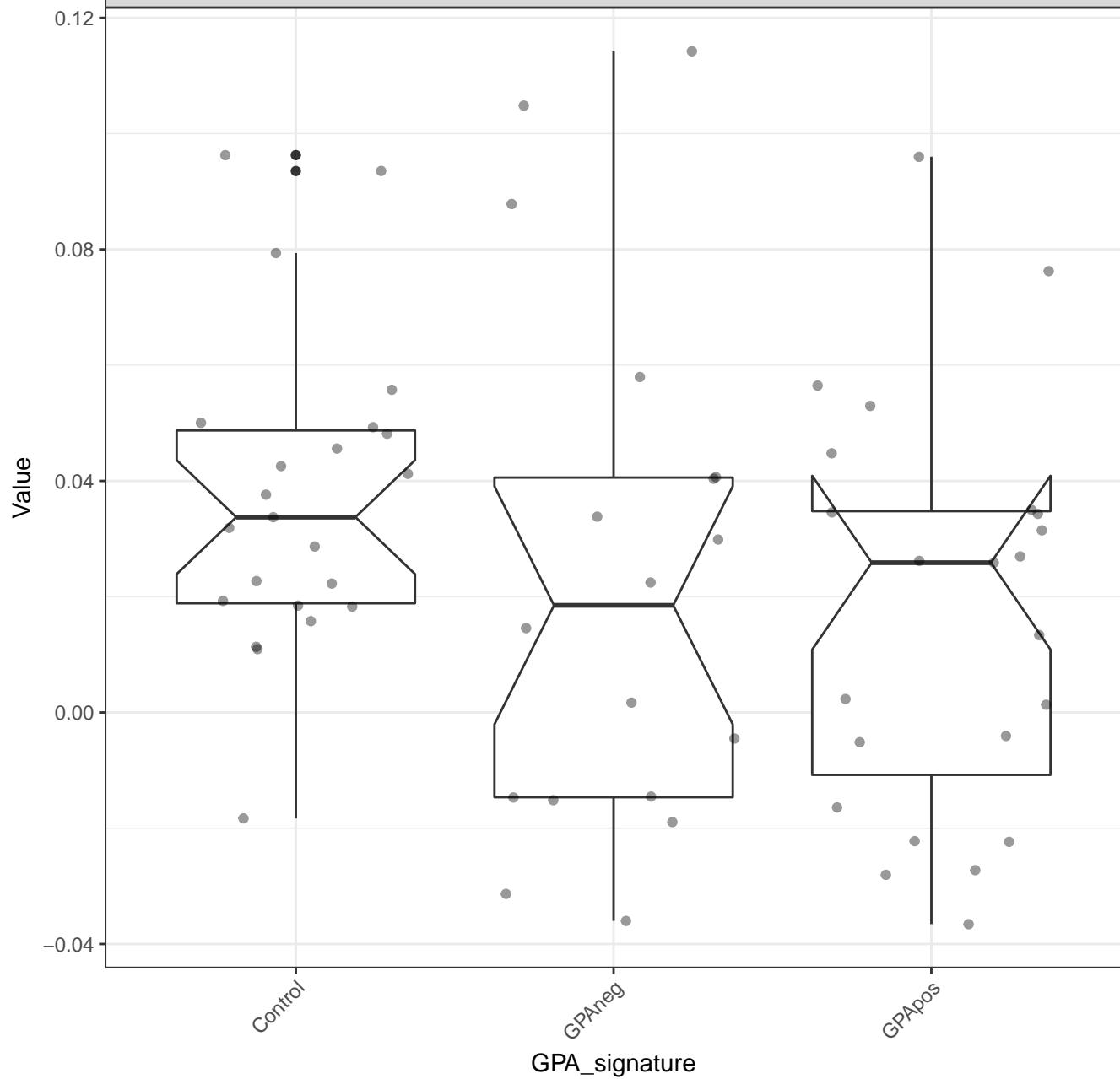
LV 441



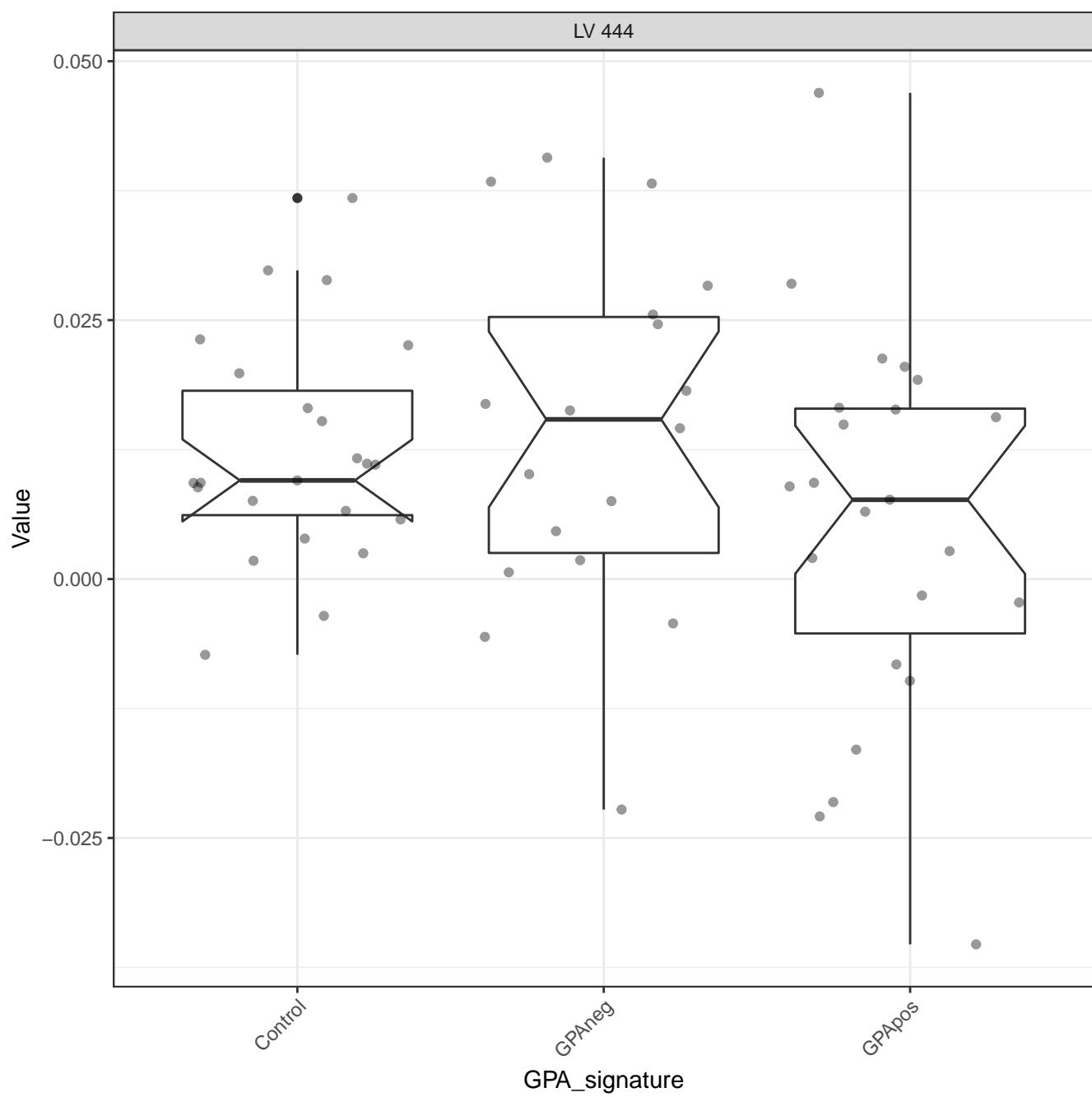
LV 442



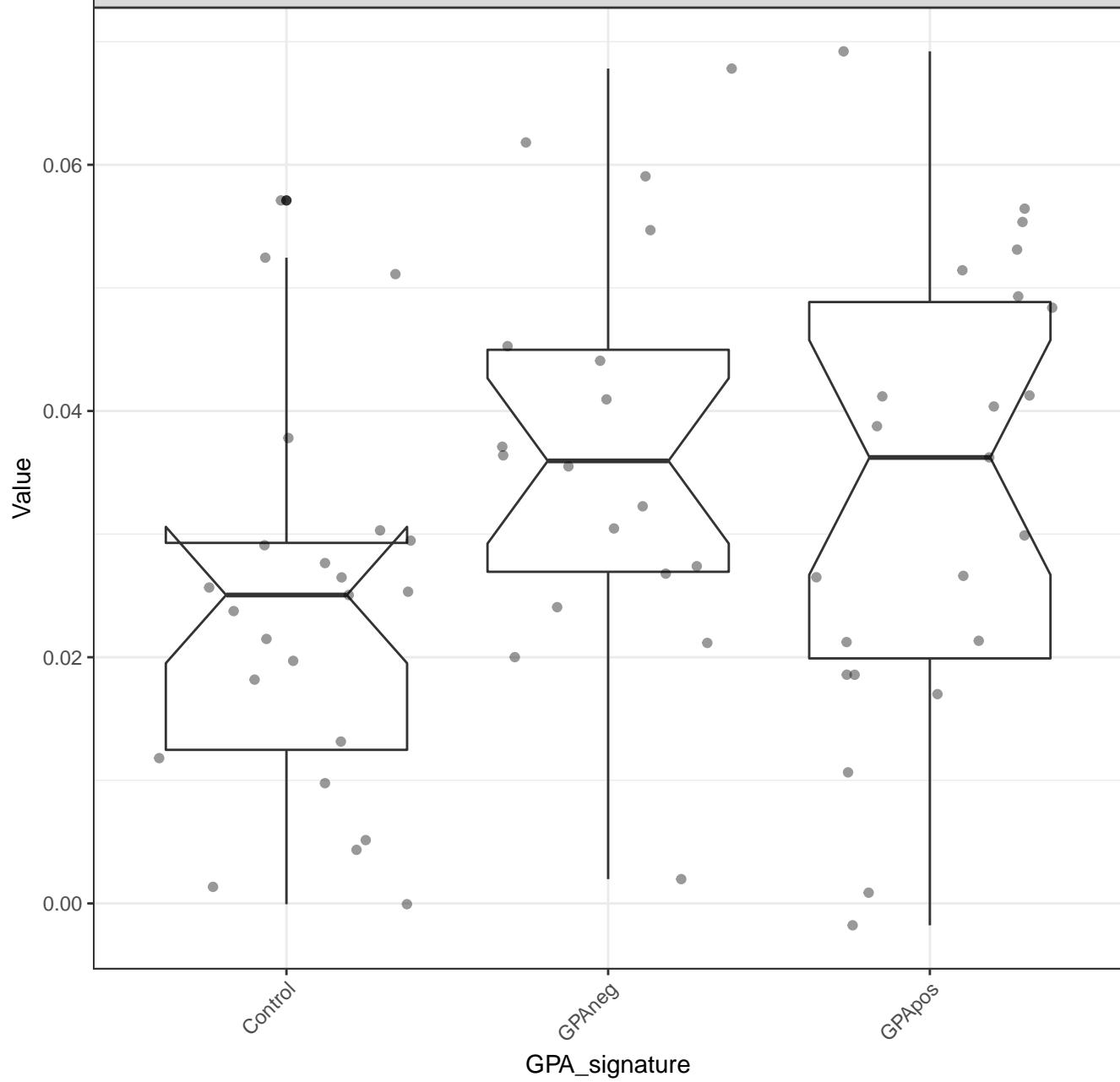
## 443,DMAP\_NKA2



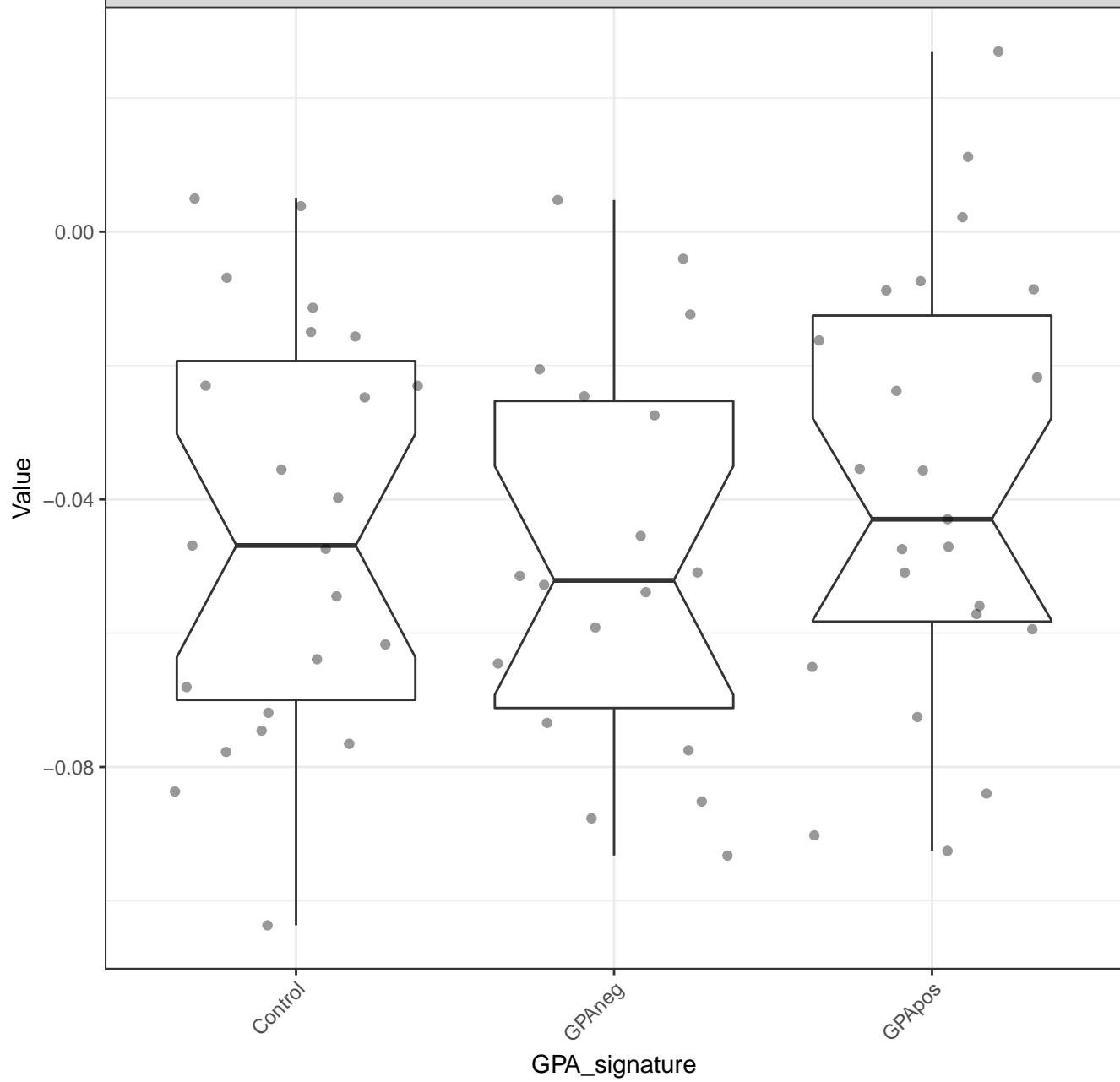
LV 444



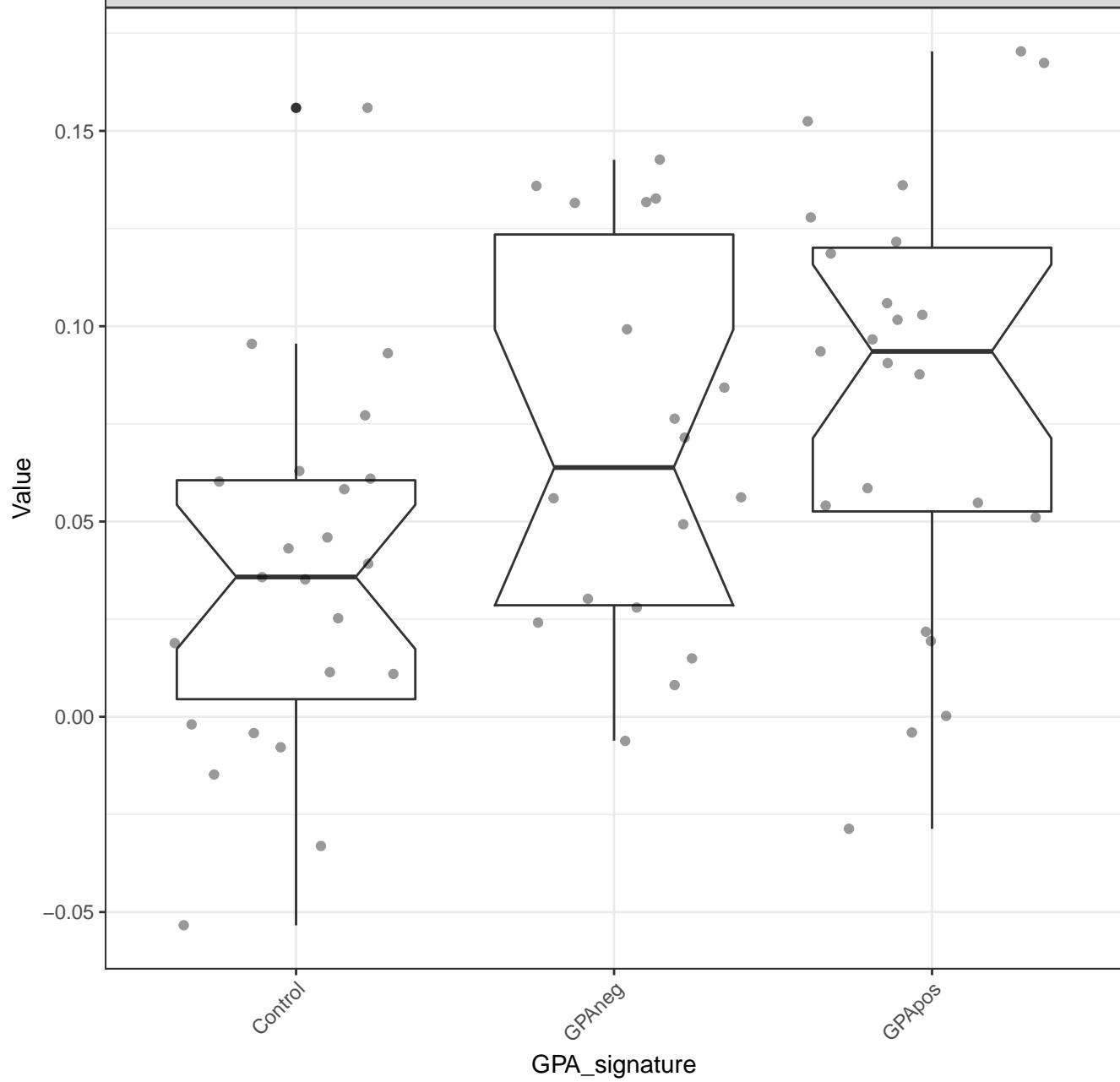
LV 445

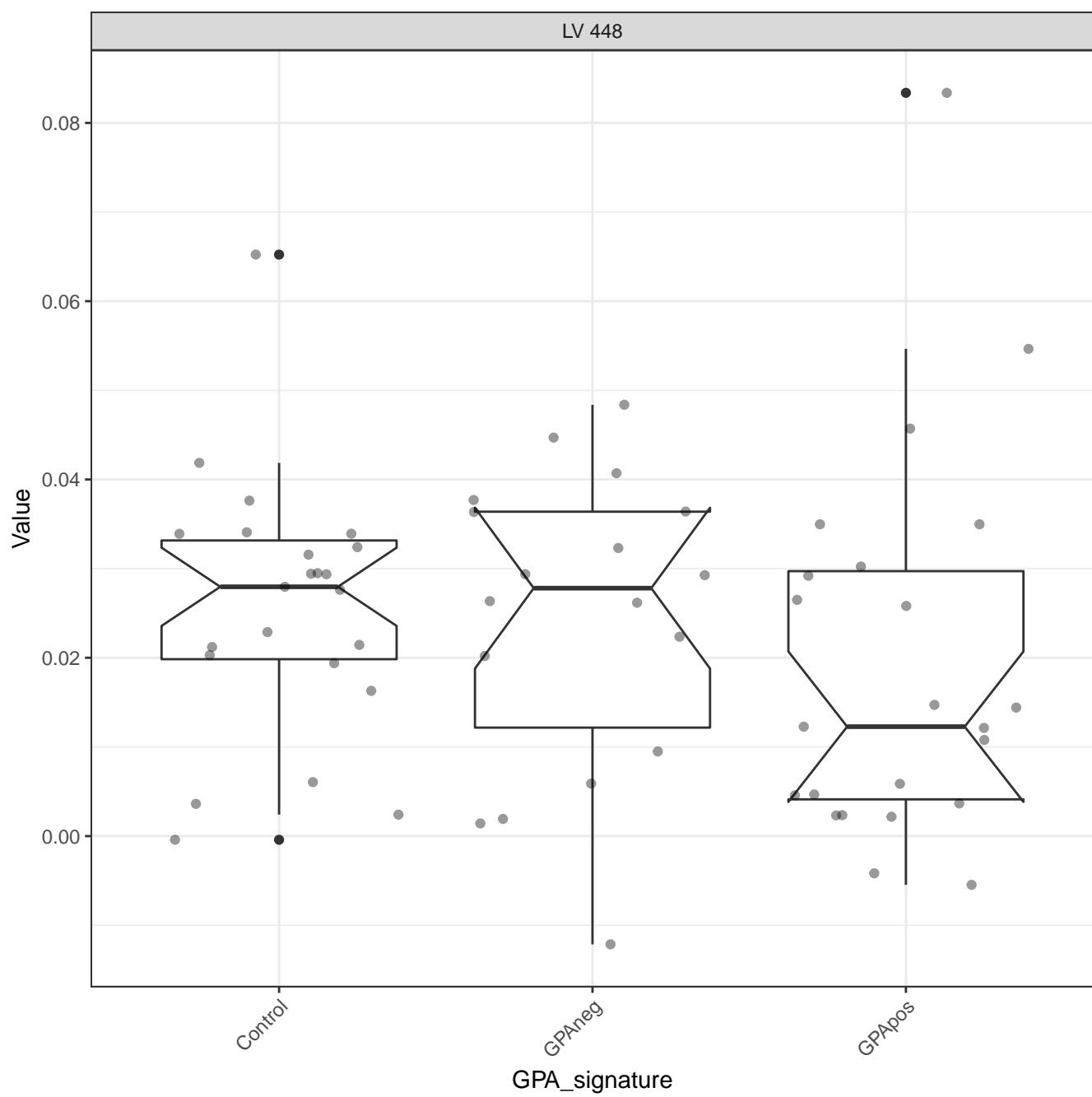


LV 446



## 447,KEGG\_LYSOSOME





## 449,REACTOME\_ELONGATION\_ARREST\_AND\_RECOVERY

Value

0.050

0.025

0.000

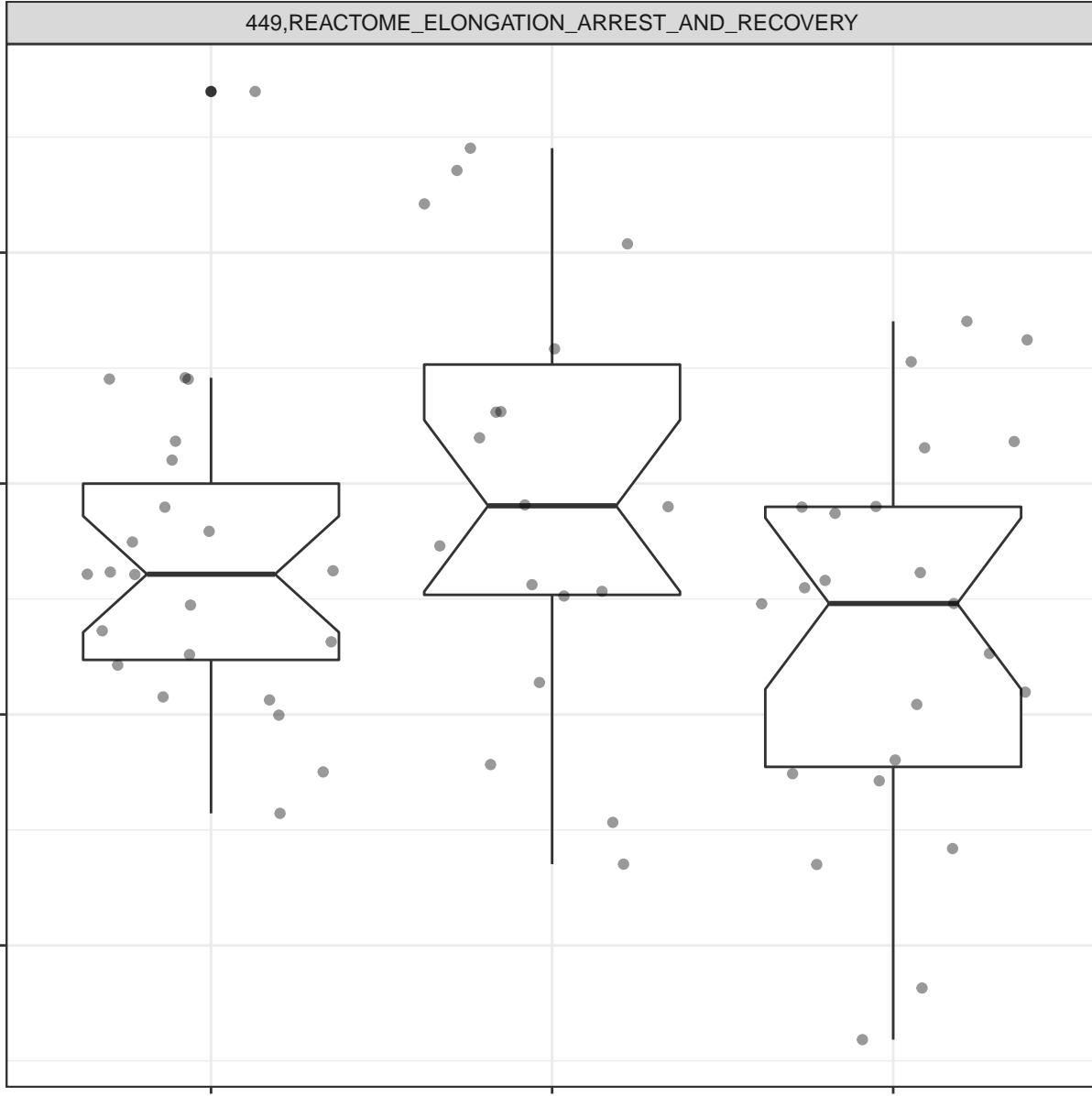
-0.025

Control

GPA\_signature

GPAneg

GPAPos



## LV 450

Value

0.05

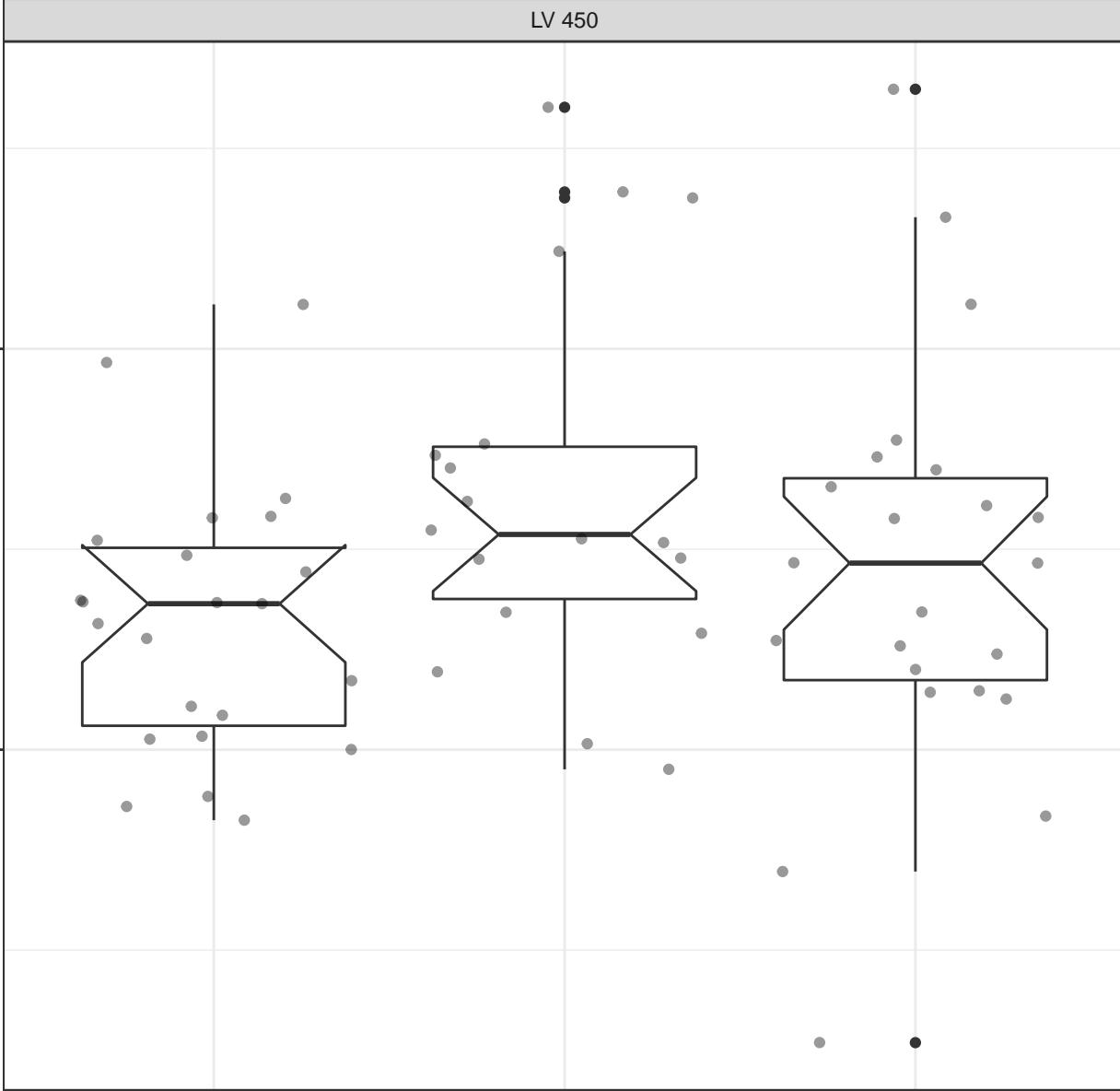
0.00

Control

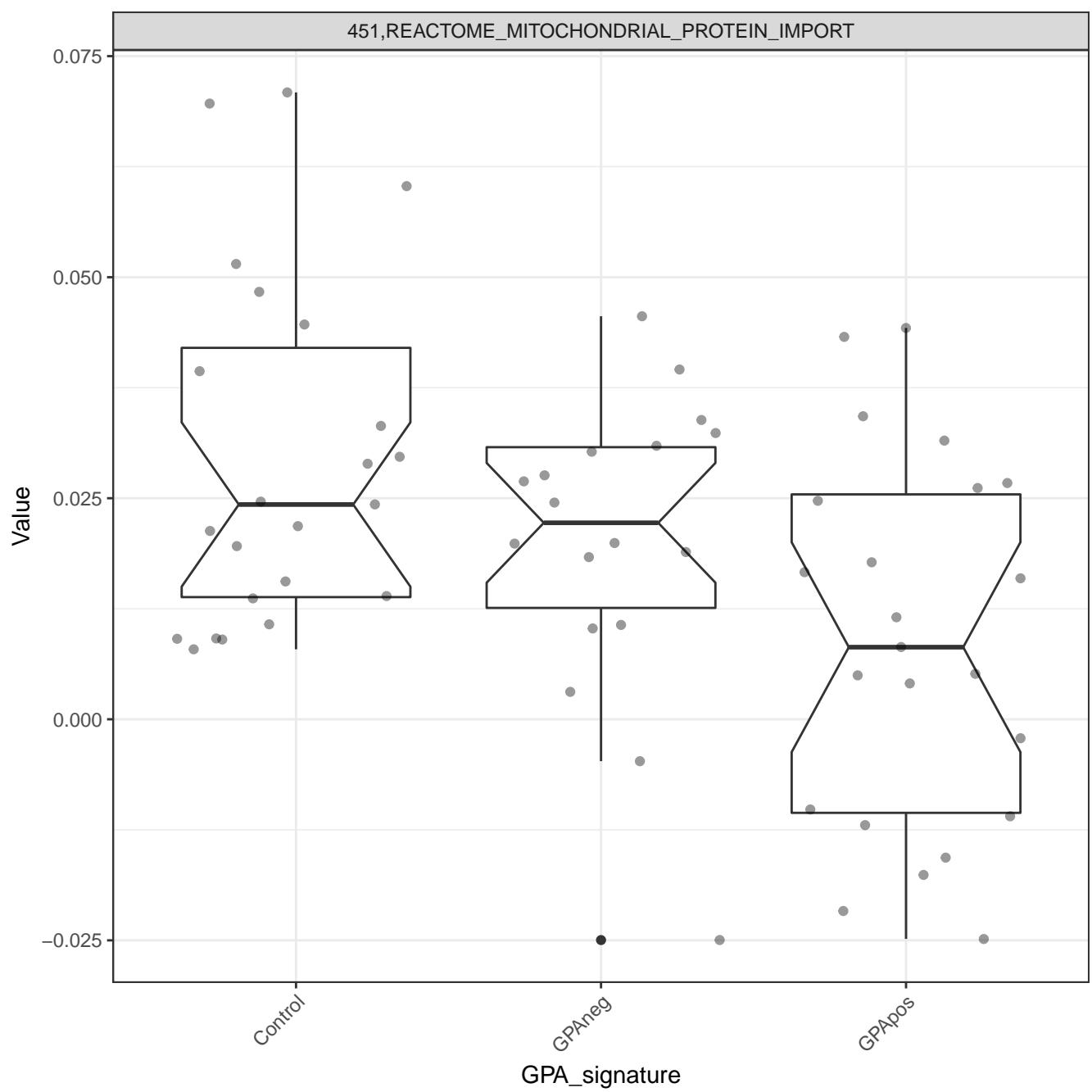
GPA\_signature

GPAneg

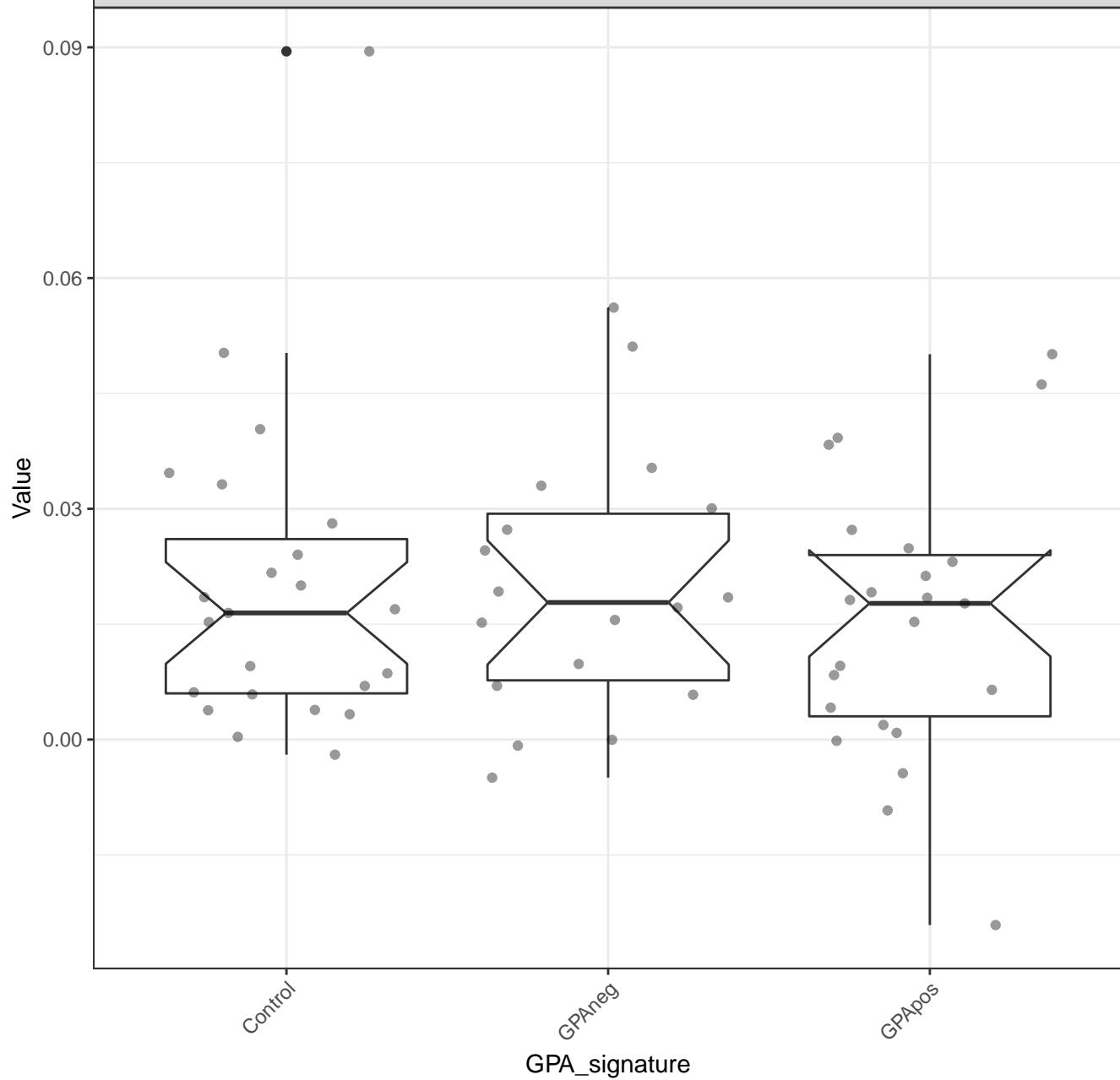
GPApos

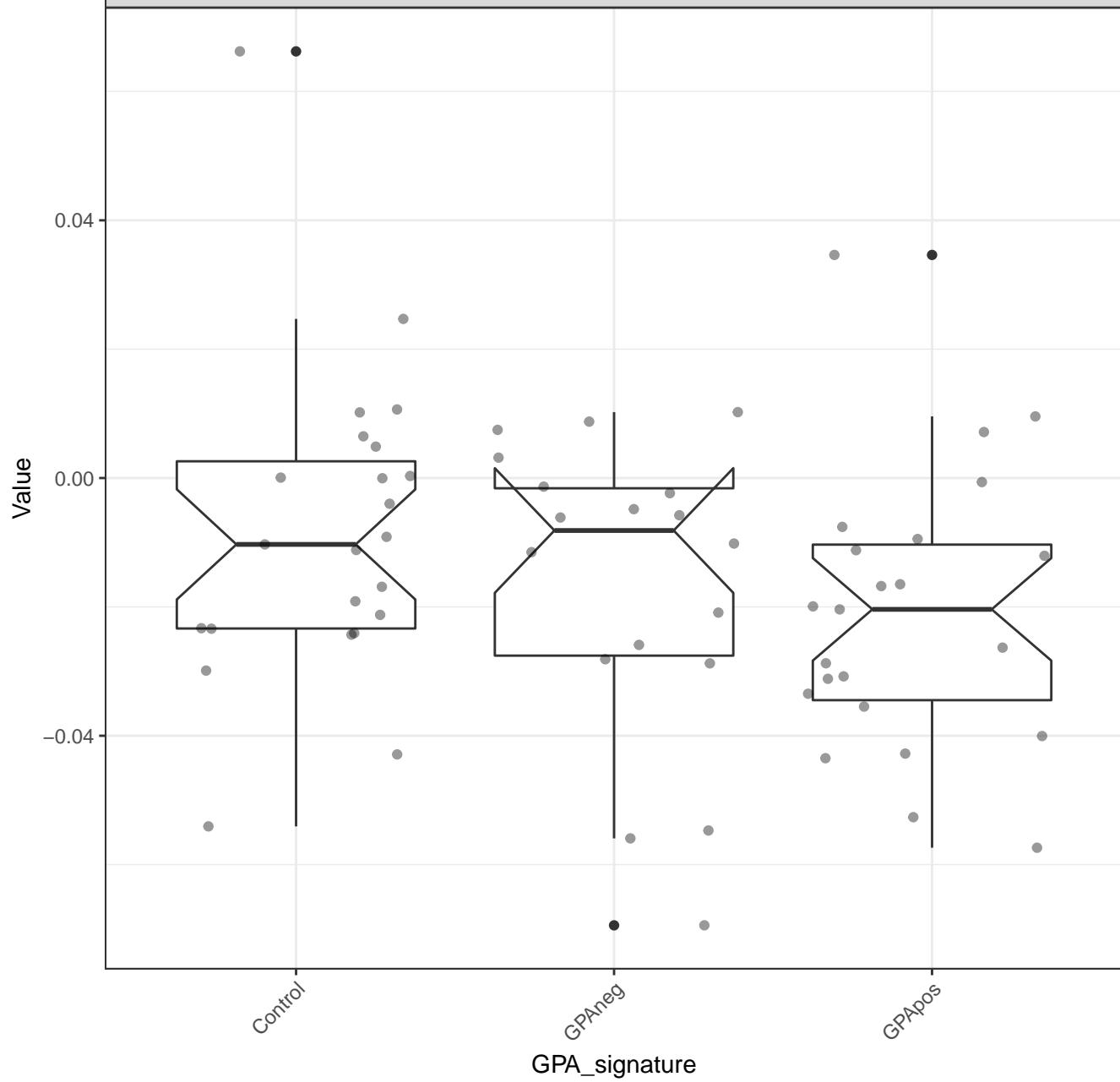


## 451,REACTOME MITOCHONDRIAL PROTEIN IMPORT

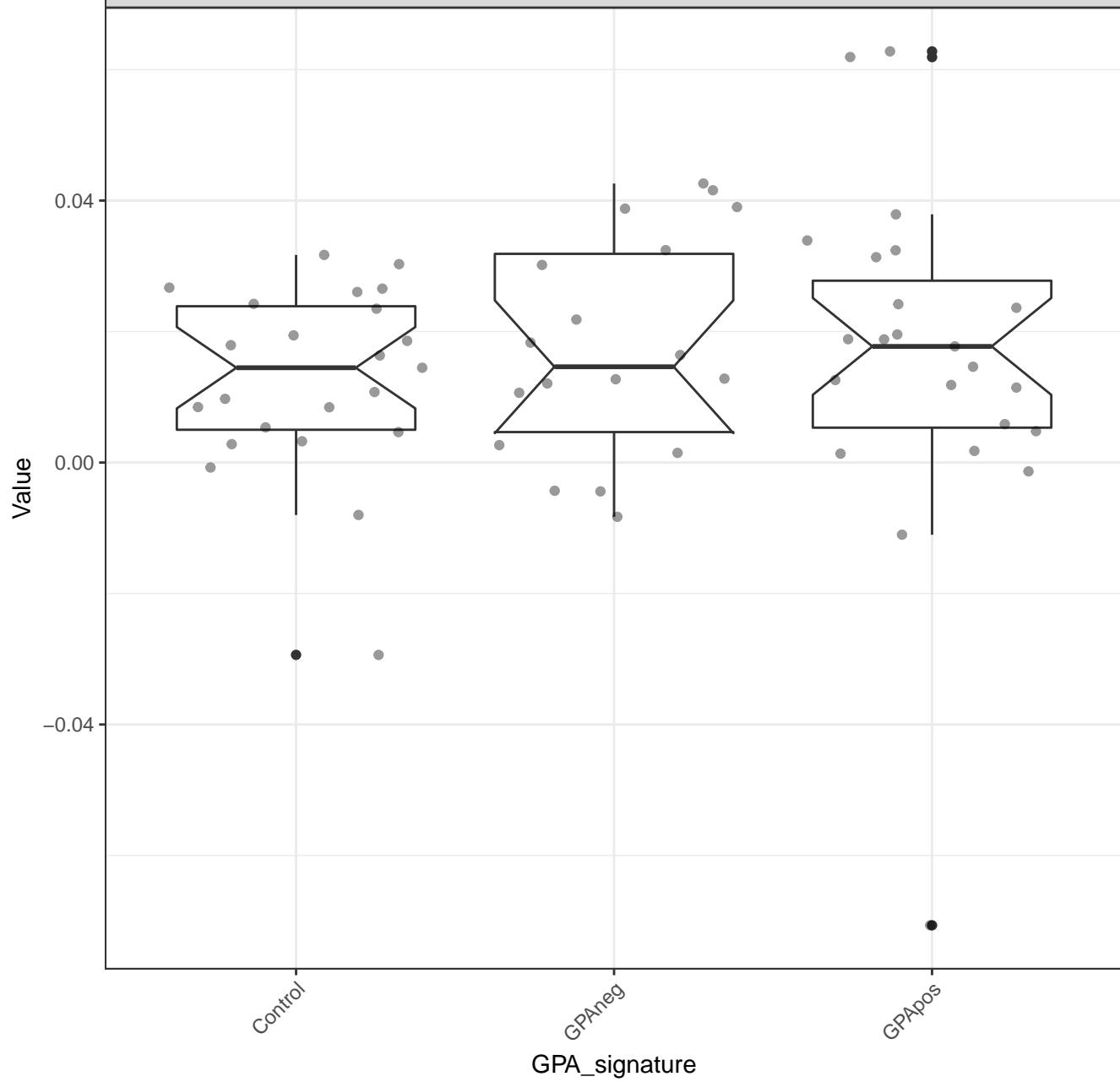


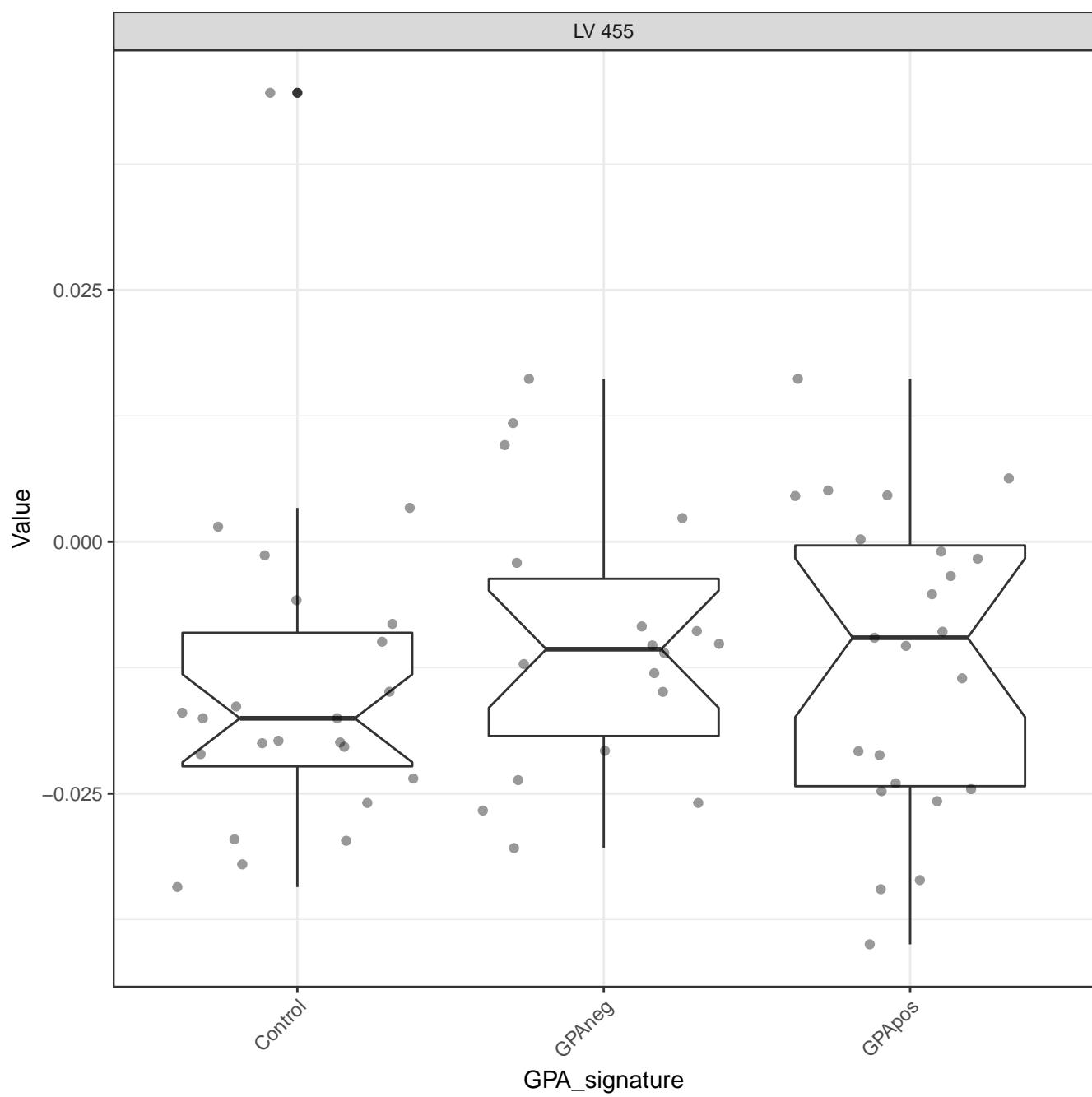
LV 452



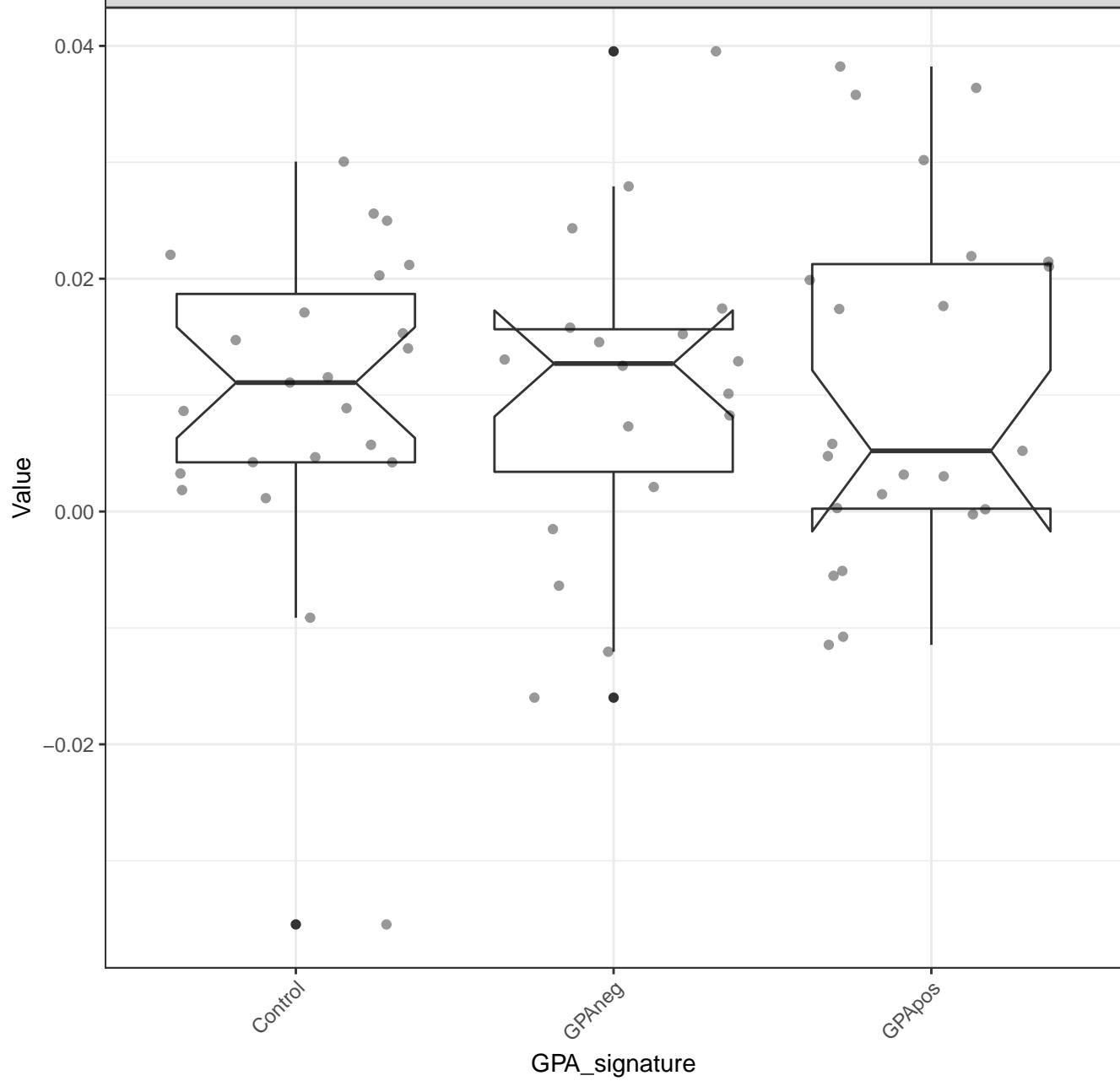


LV 454

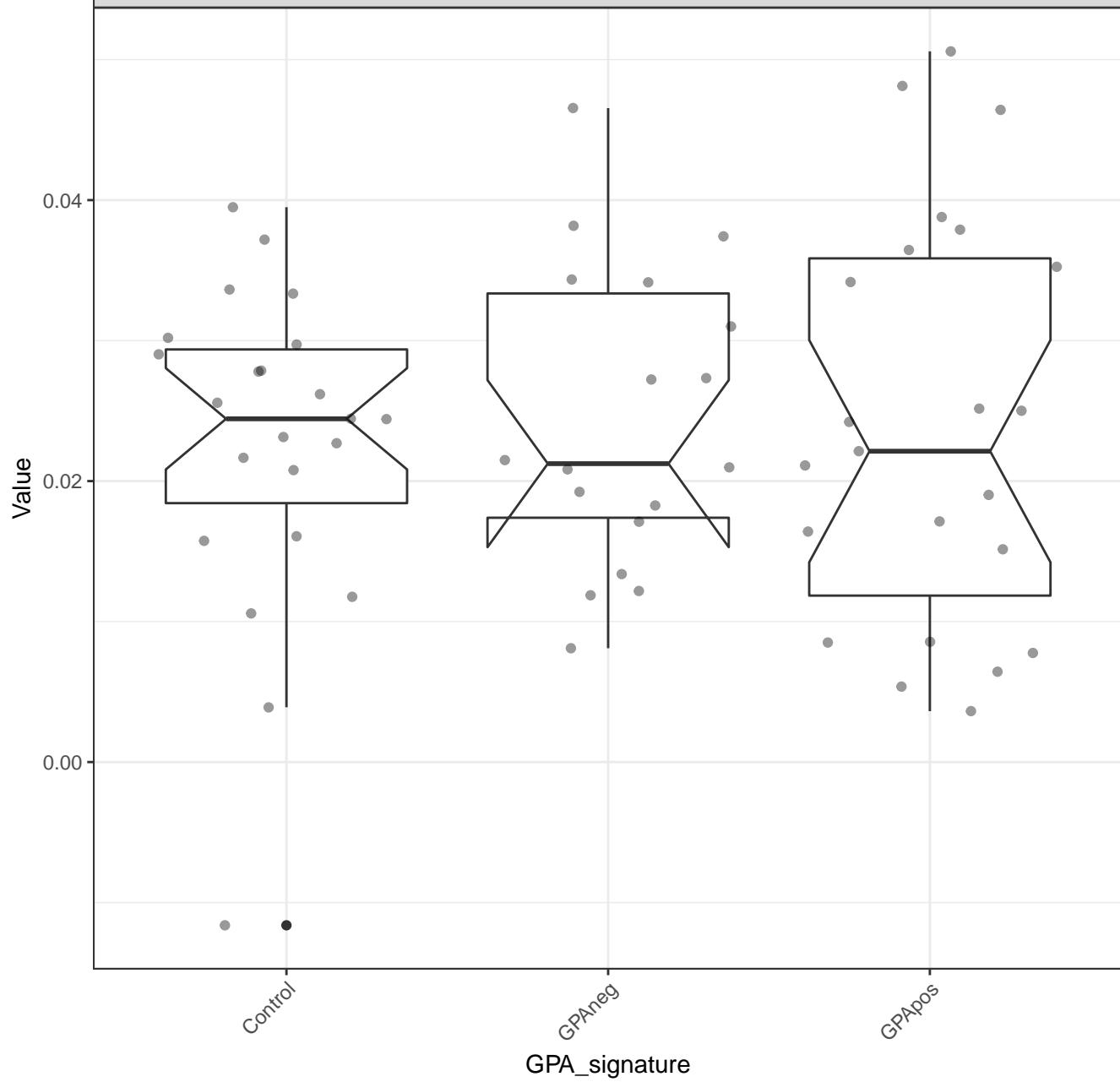




LV 456



## LV 457



## LV 458

Value

0.10

0.05

0.00

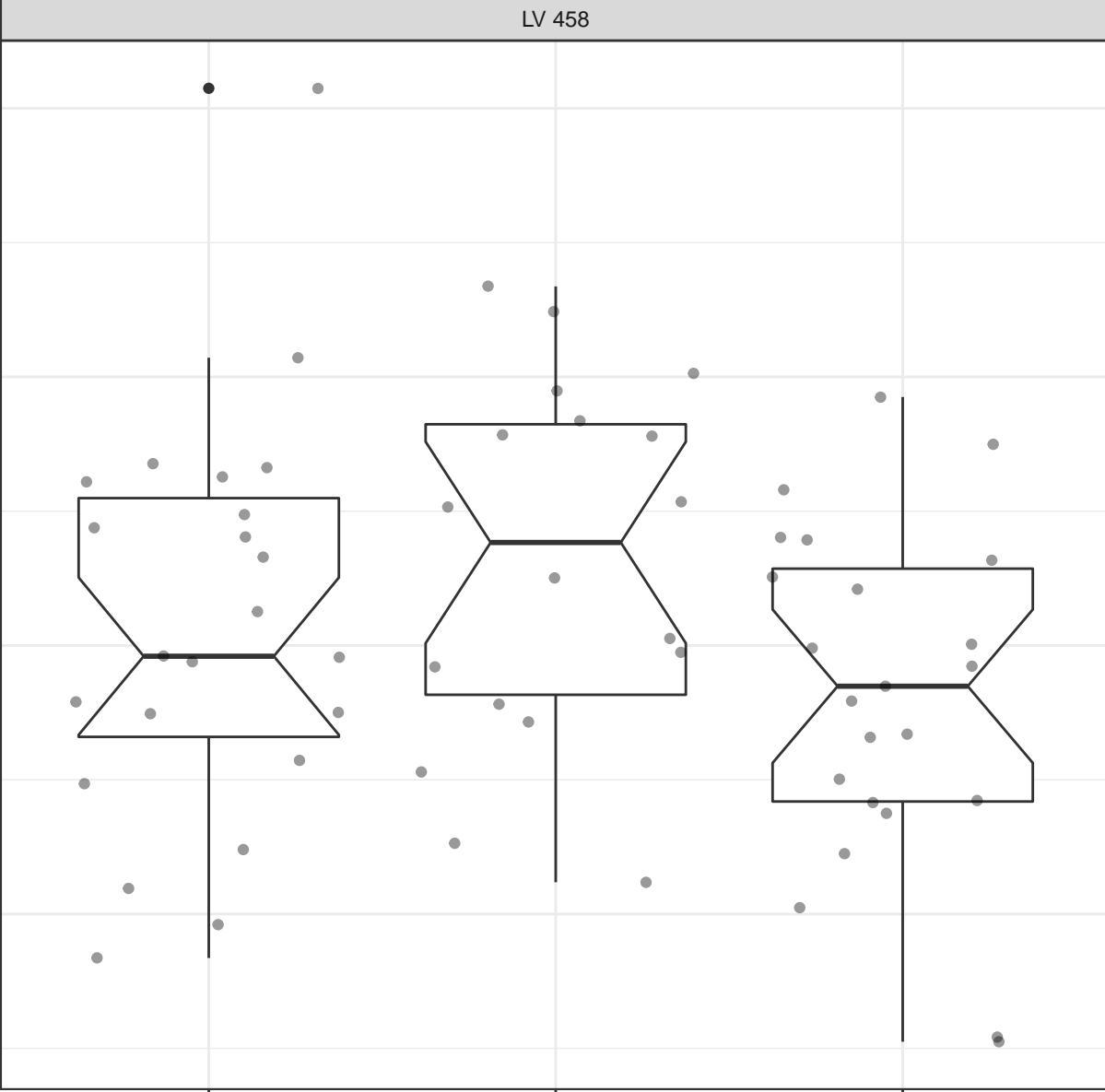
-0.05

Control

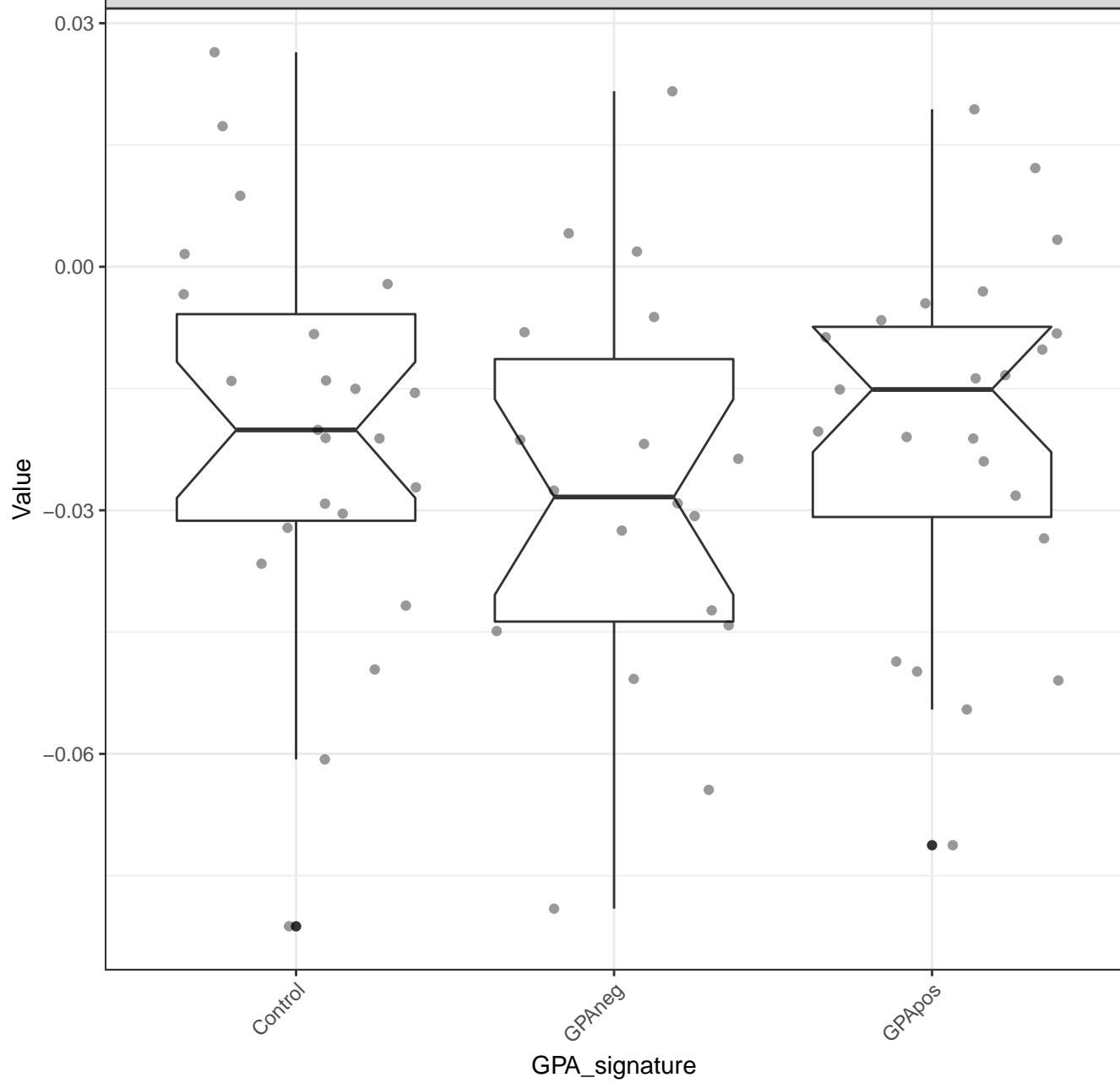
GPA\_signature

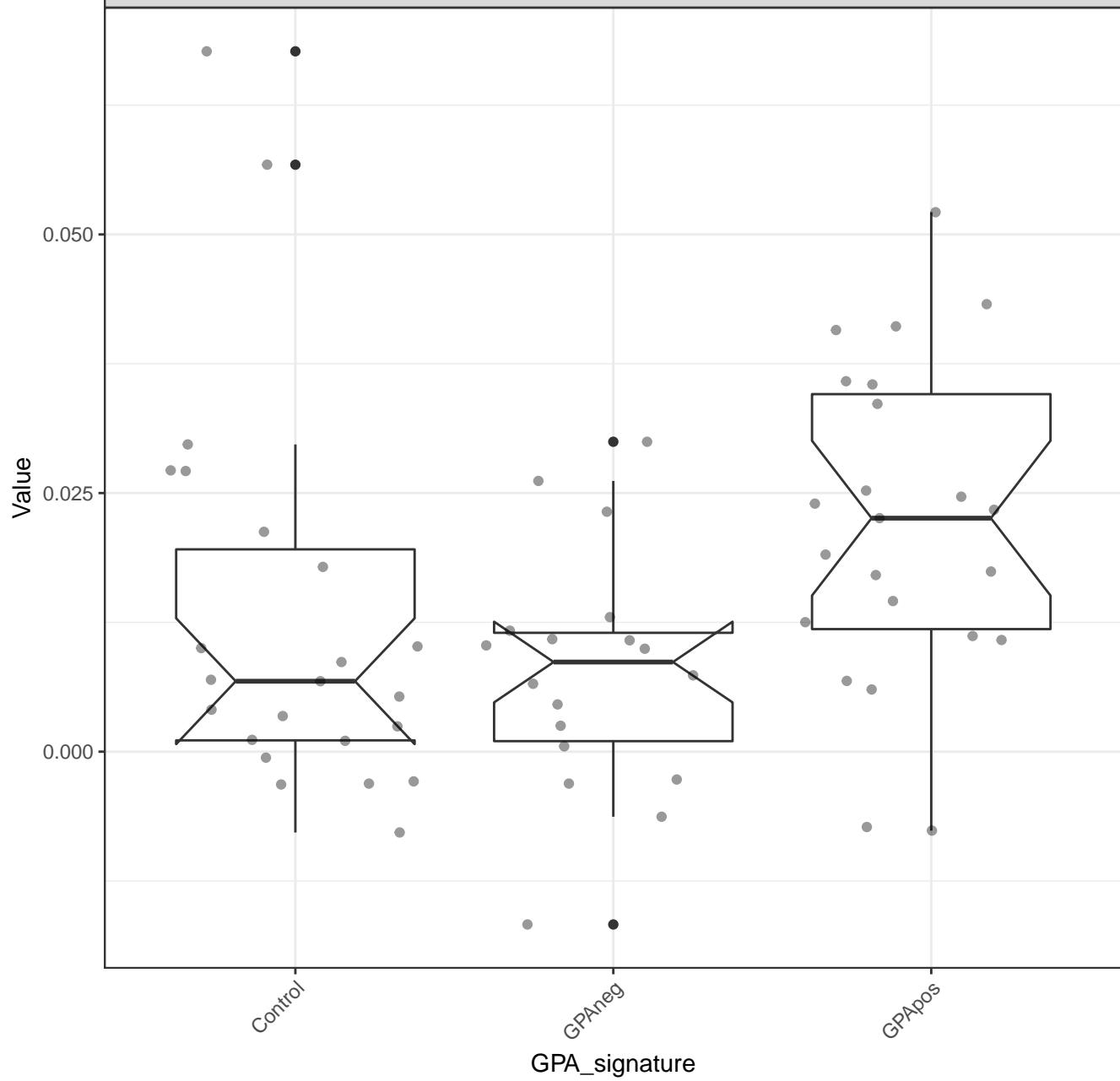
GPAneg

GPAPos



LV 459





## LV 461

Value

0.02

0.01

0.00

-0.01

-0.02

-0.03

-0.04

-0.05

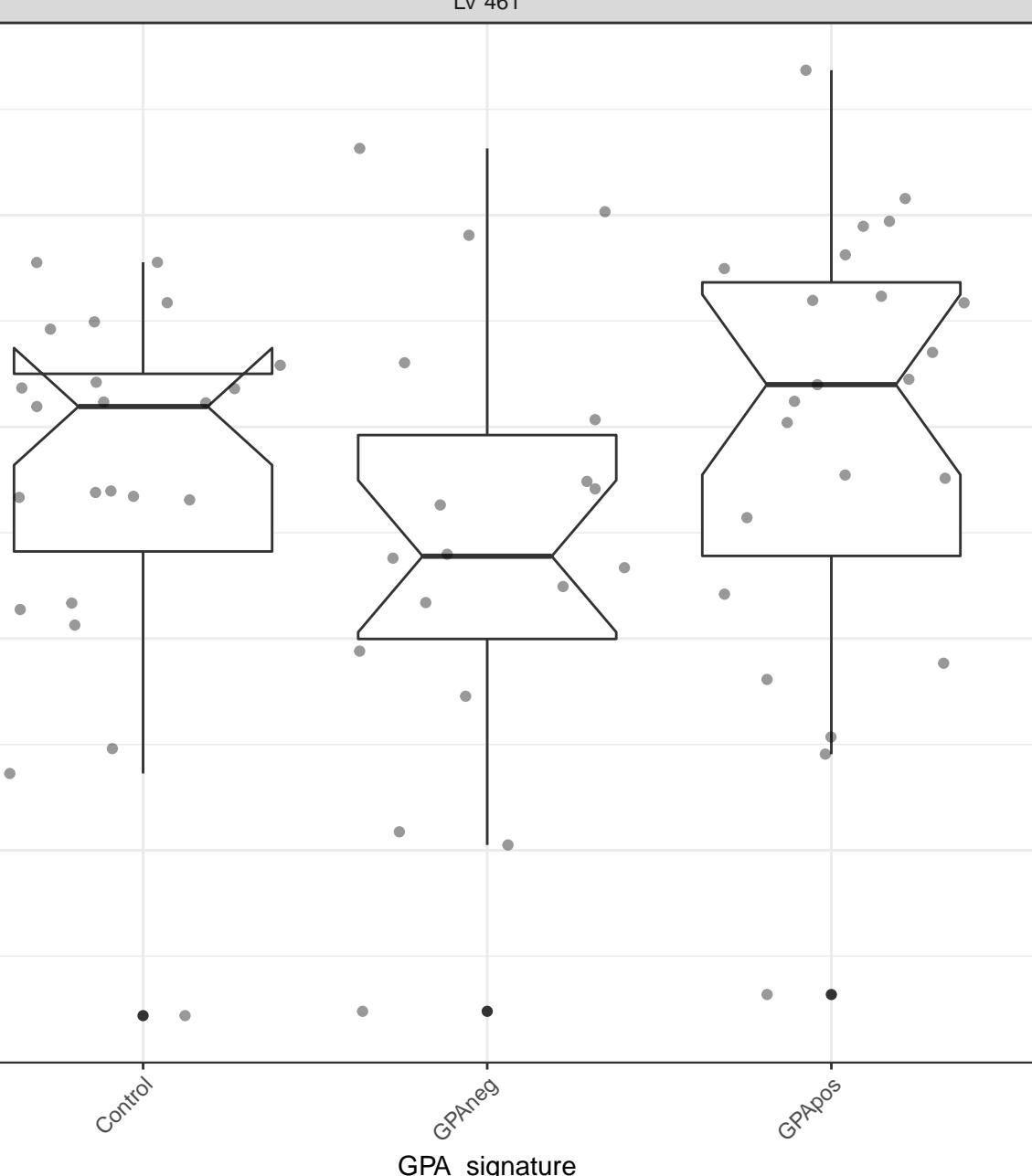
-0.06

Control

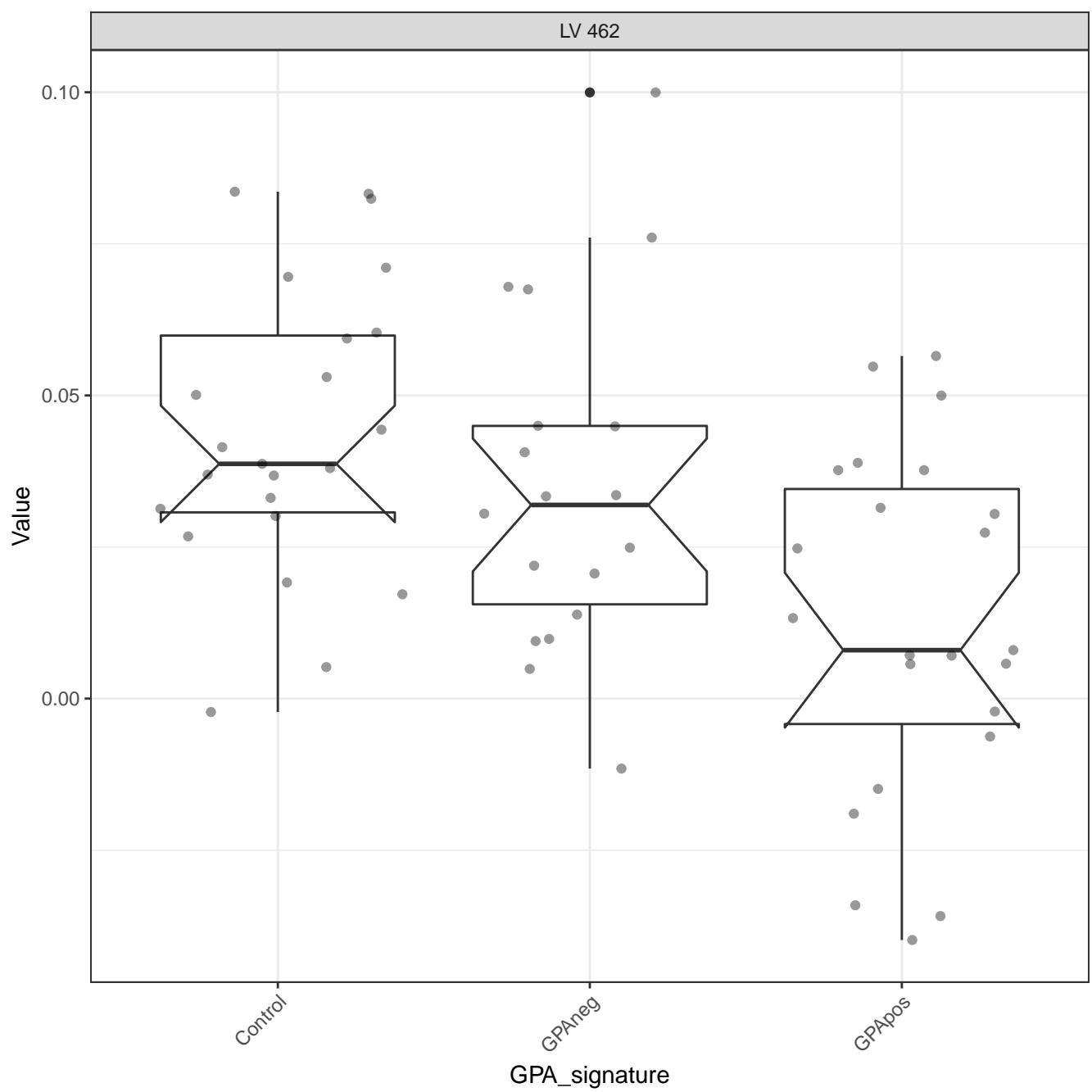
GPA\_signature

GPAneg

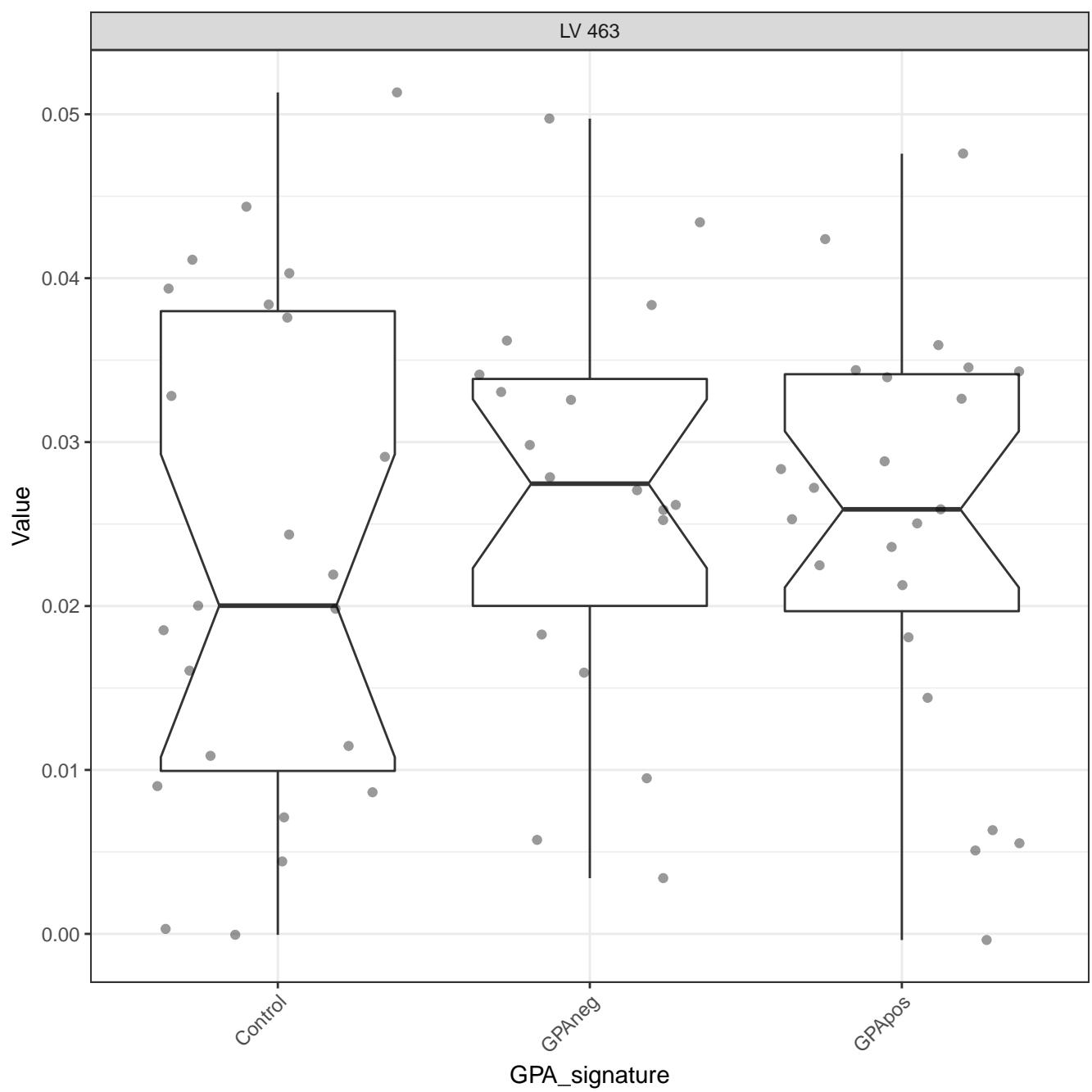
GPApos

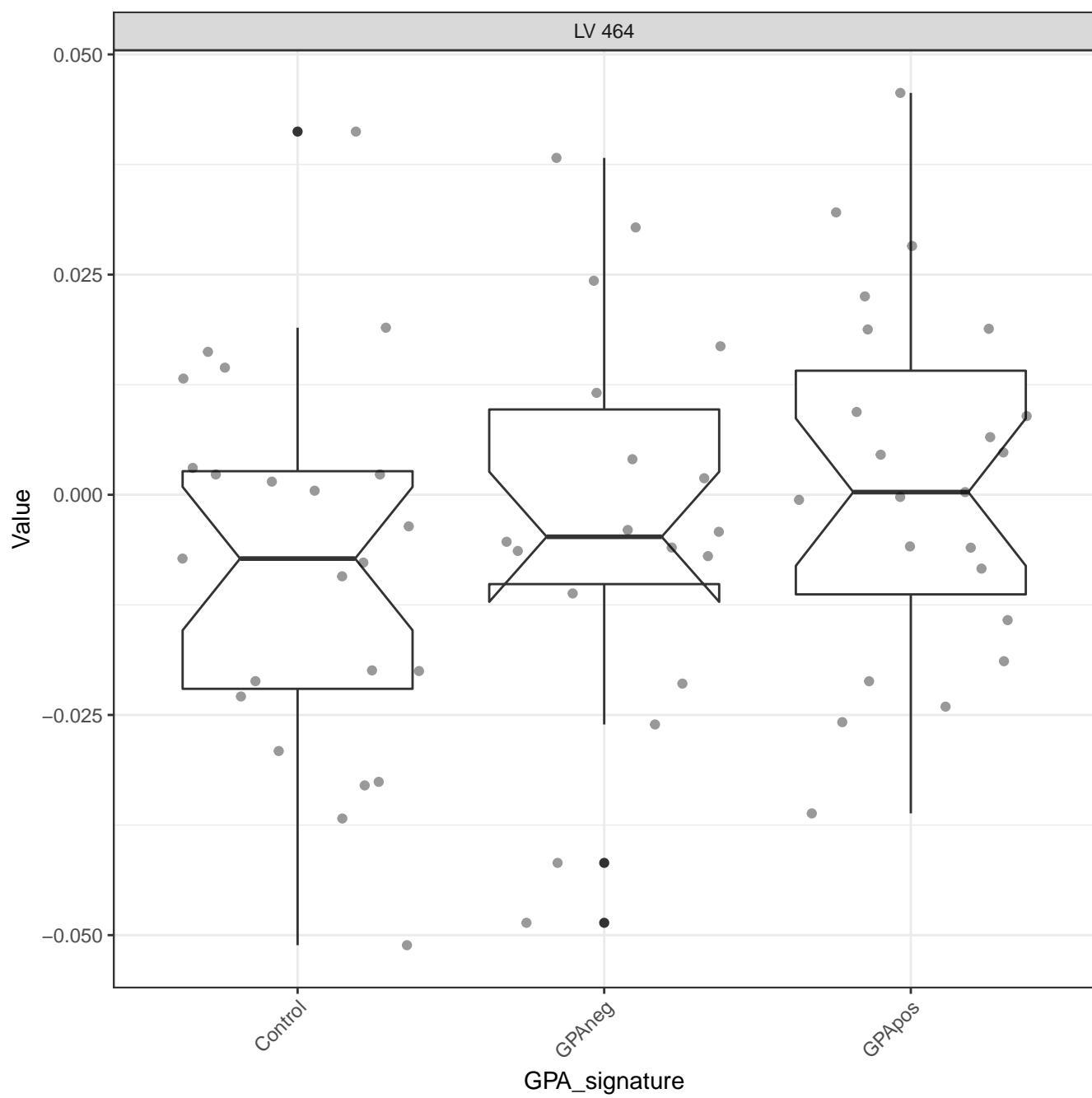


## LV 462

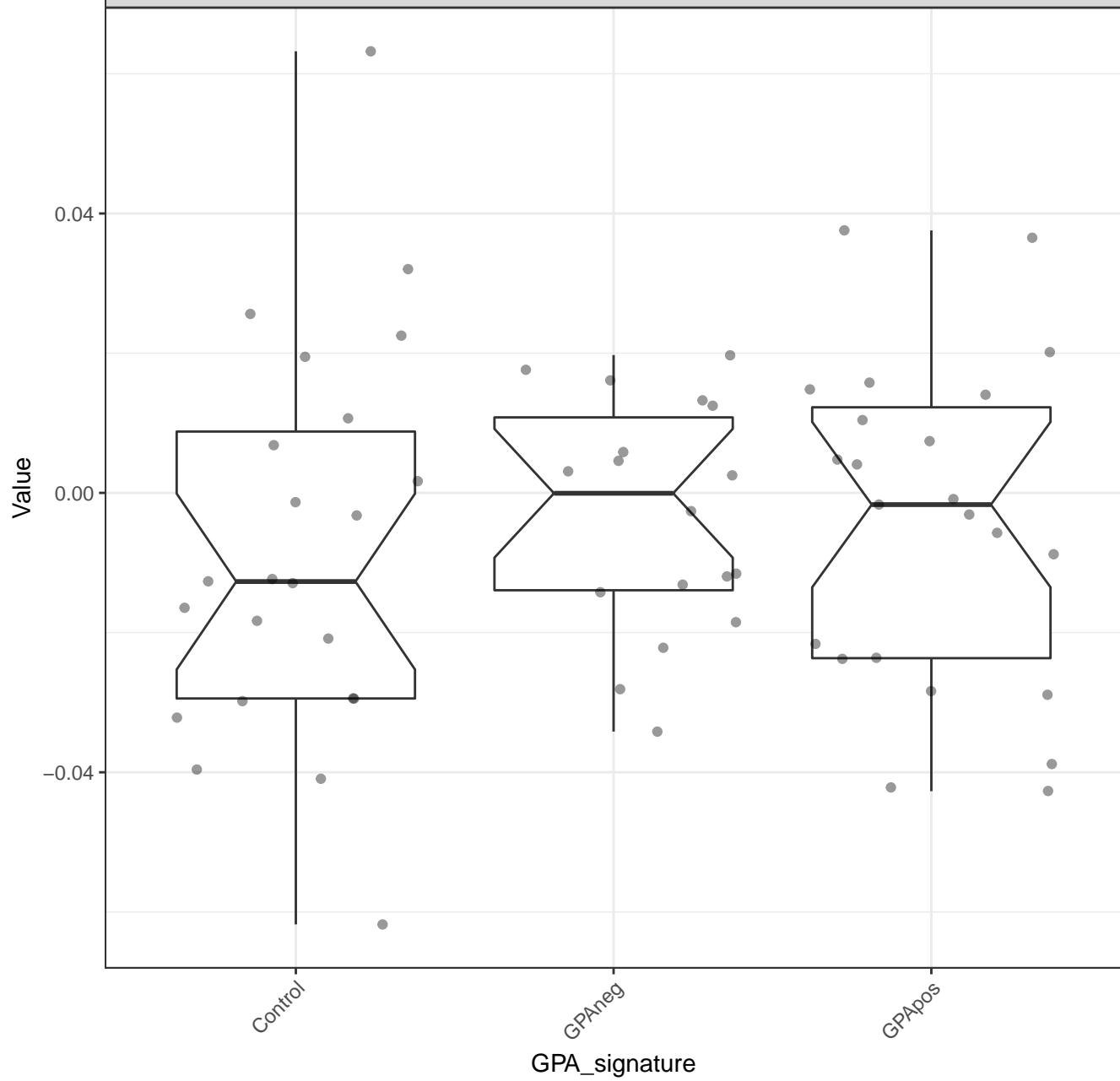


## LV 463





LV 465



## LV 466

Value

0.050

0.025

0.000

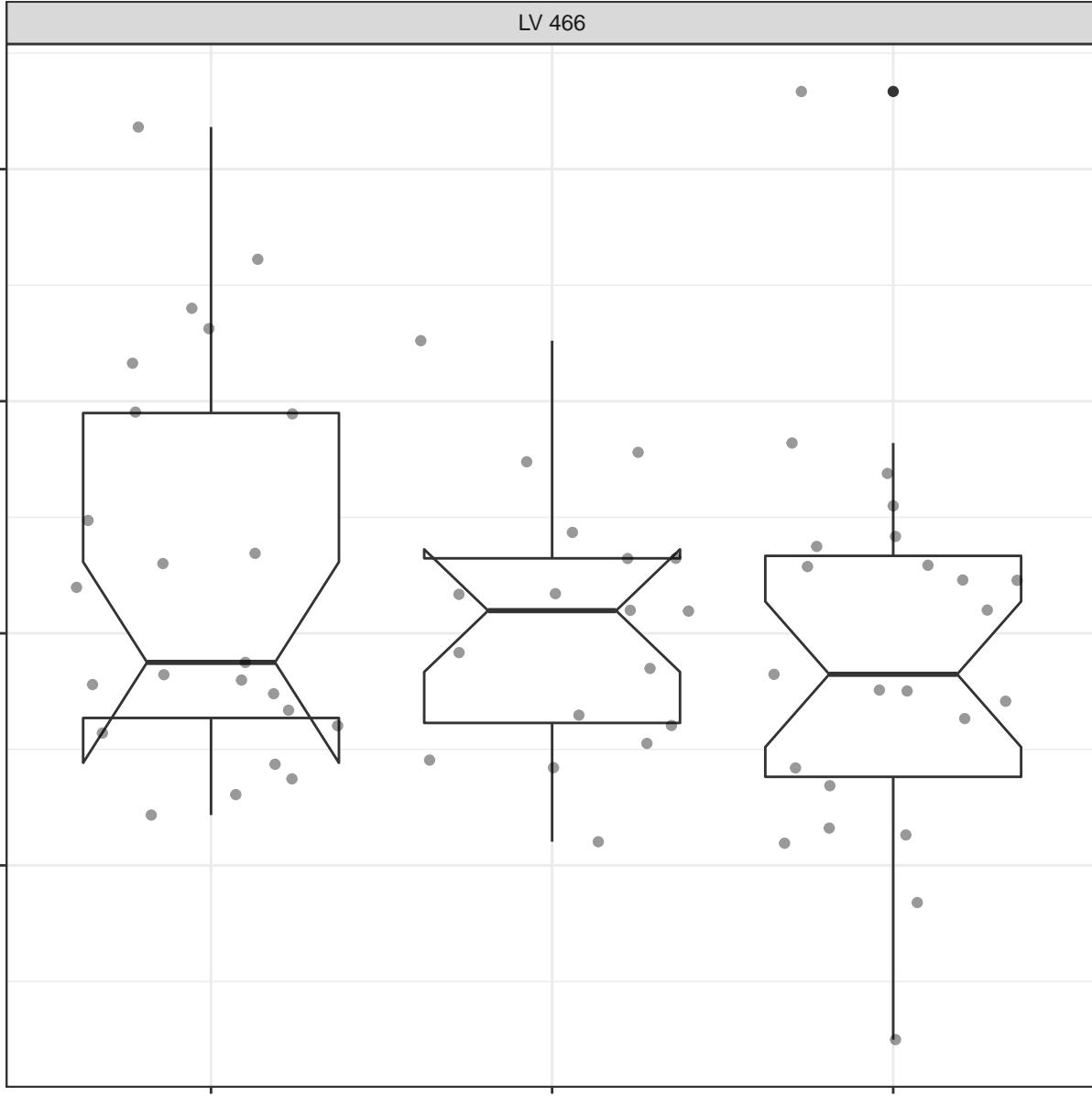
-0.025

Control

GPA\_signature

GPAneg

GPAPos



Value

0.04

0.02

0.01

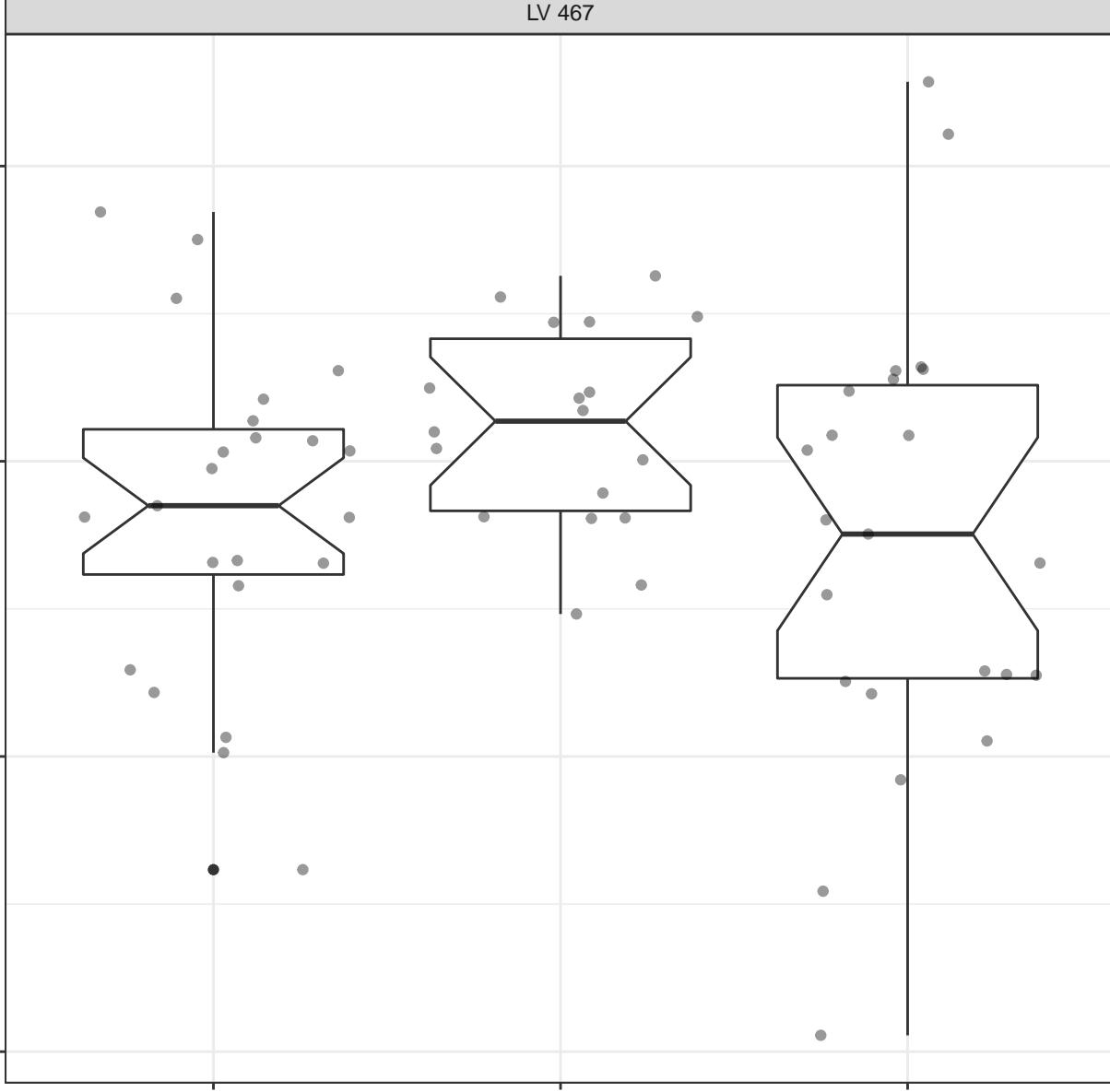
-0.02

Control

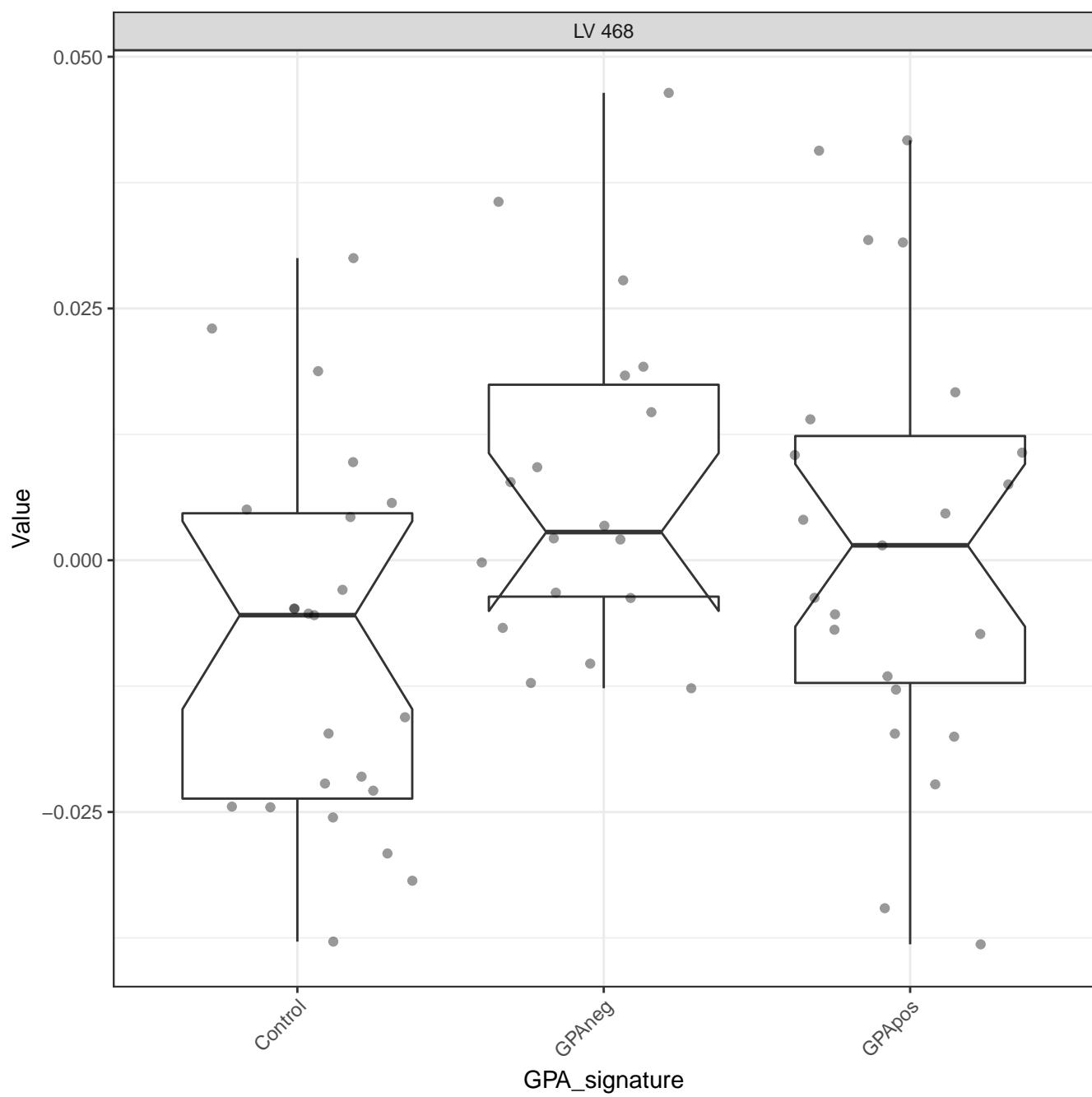
GPA\_signature

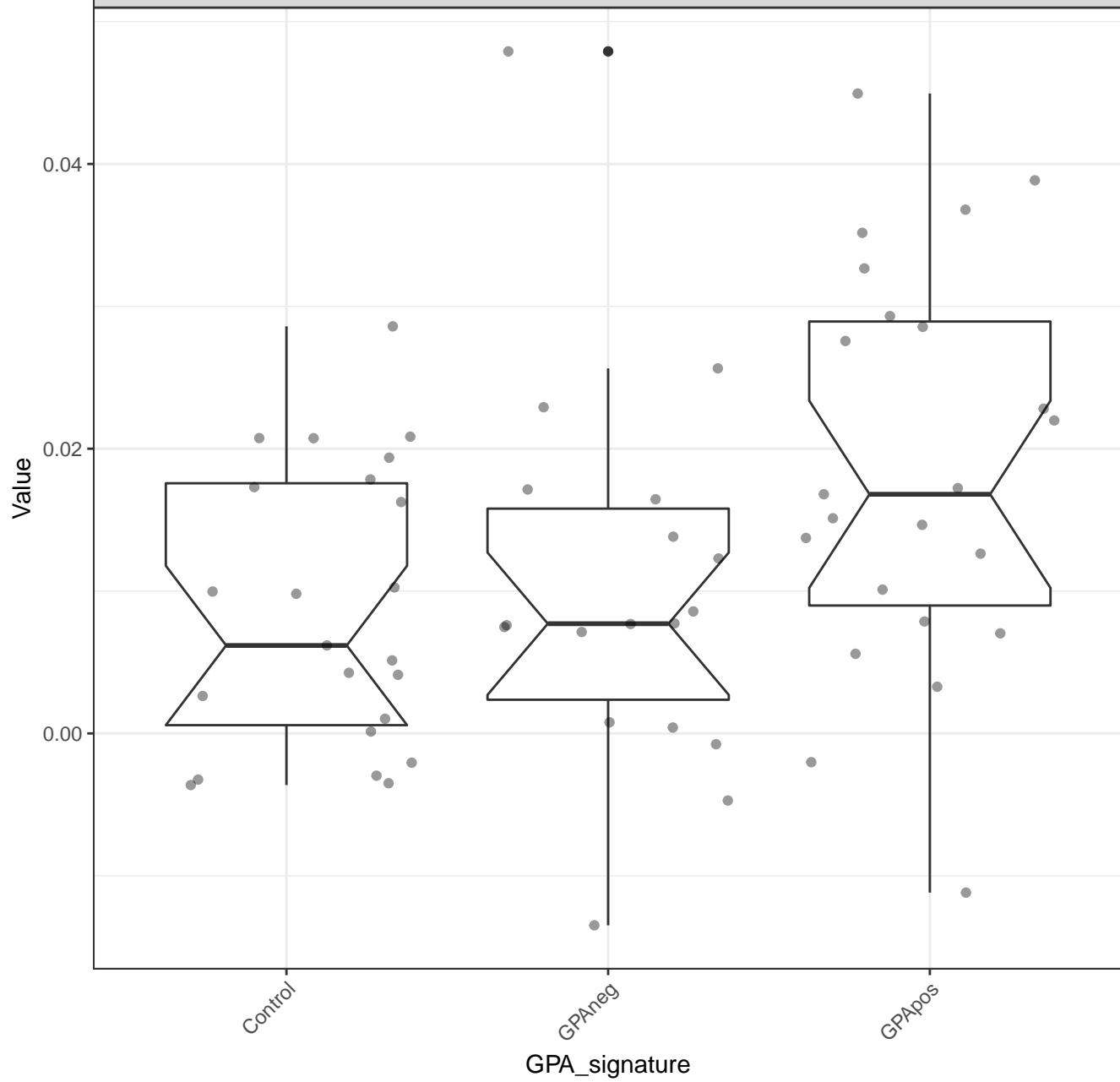
GPAneg

GPAPos



LV 468





LV 470

Value

0.05

0.00

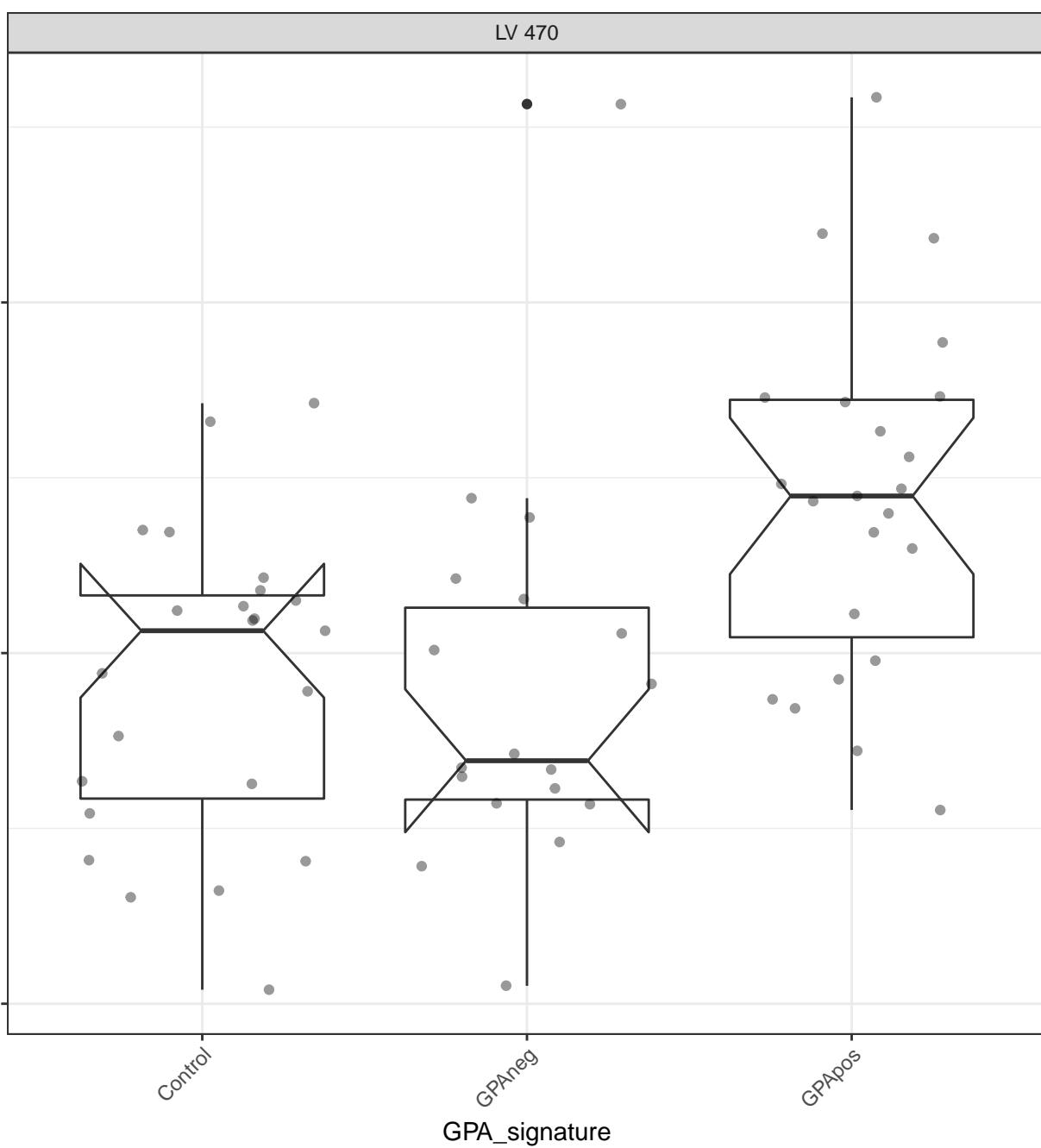
-0.05

Control

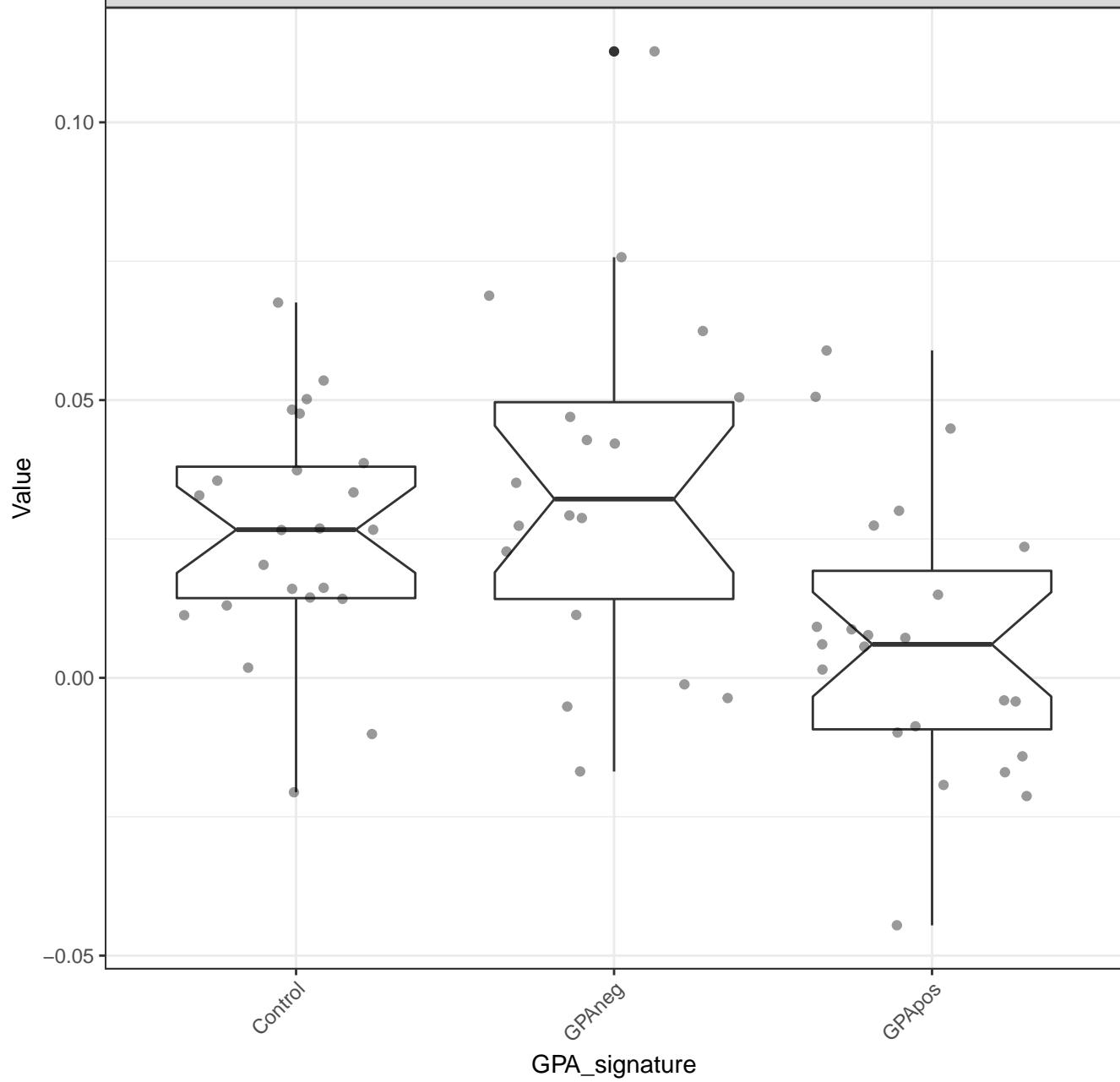
GPA\_signature

GPAneg

GPApos



LV 471



Value

0.05

0.00

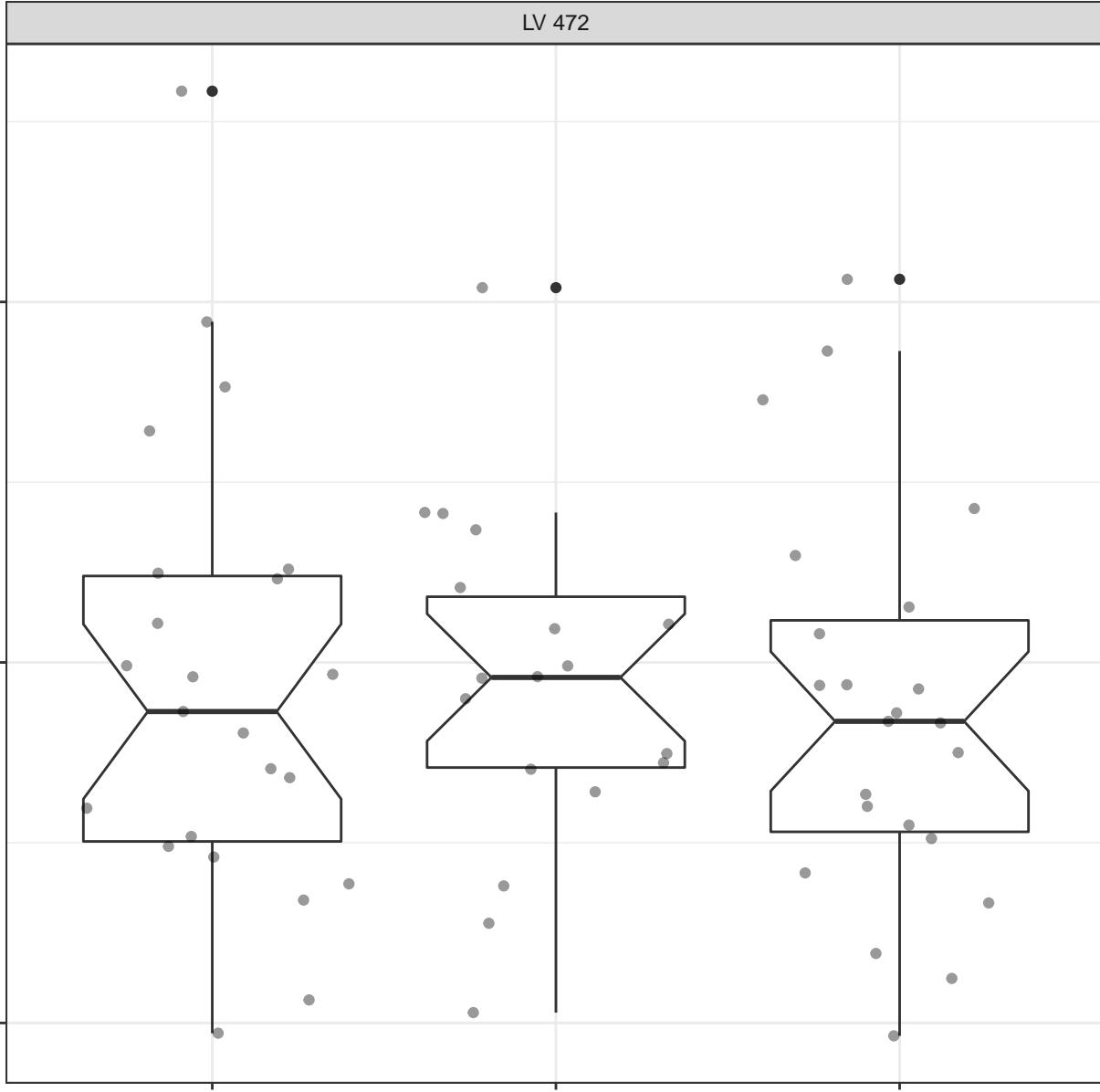
-0.05

Control

GPA\_signature

GPAneg

GPAPos



### 473,KEGG\_COMPLEMENT\_AND\_COAGULATION\_CASCADES

Value

0.05

0.00

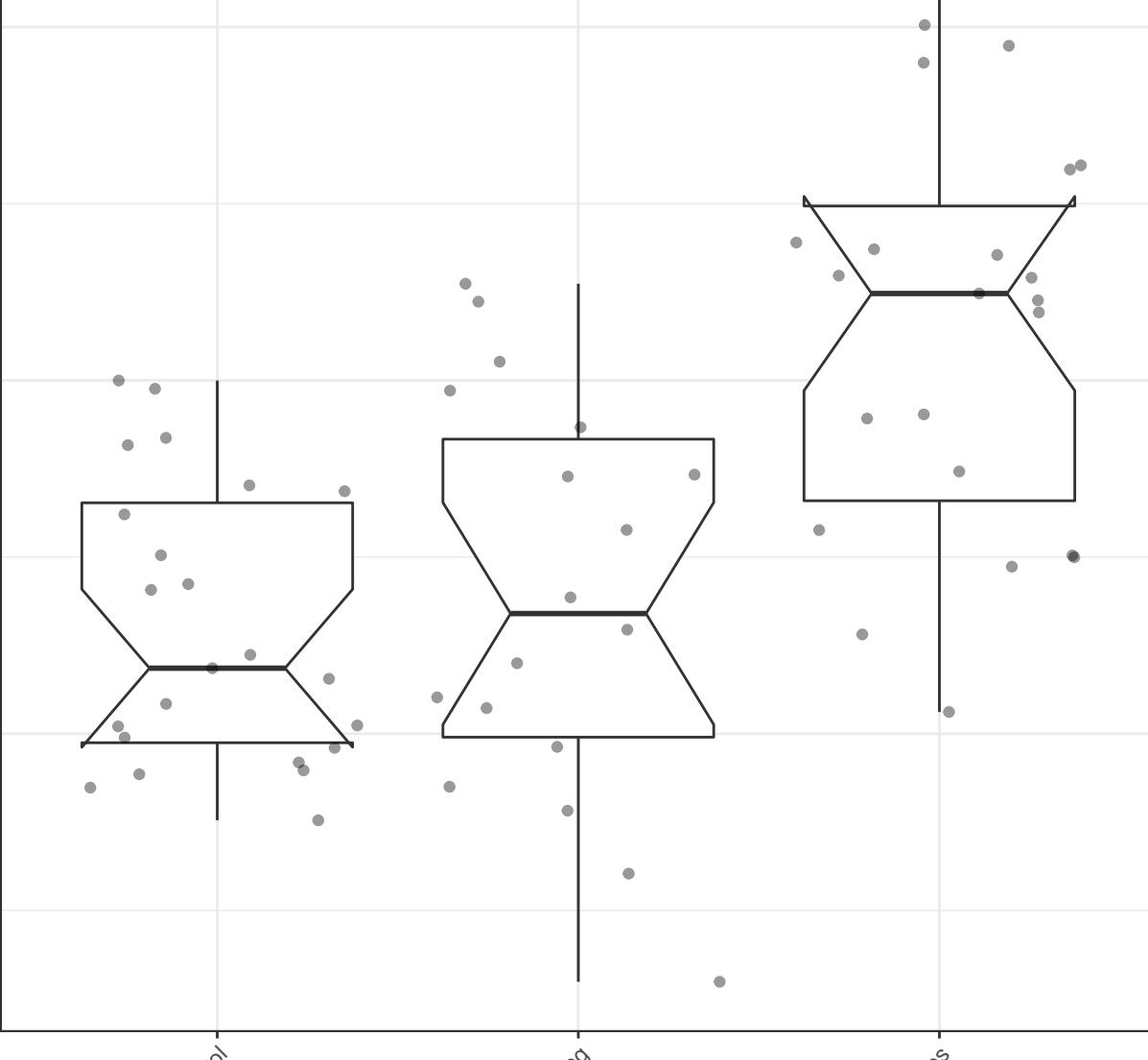
-0.05

Control

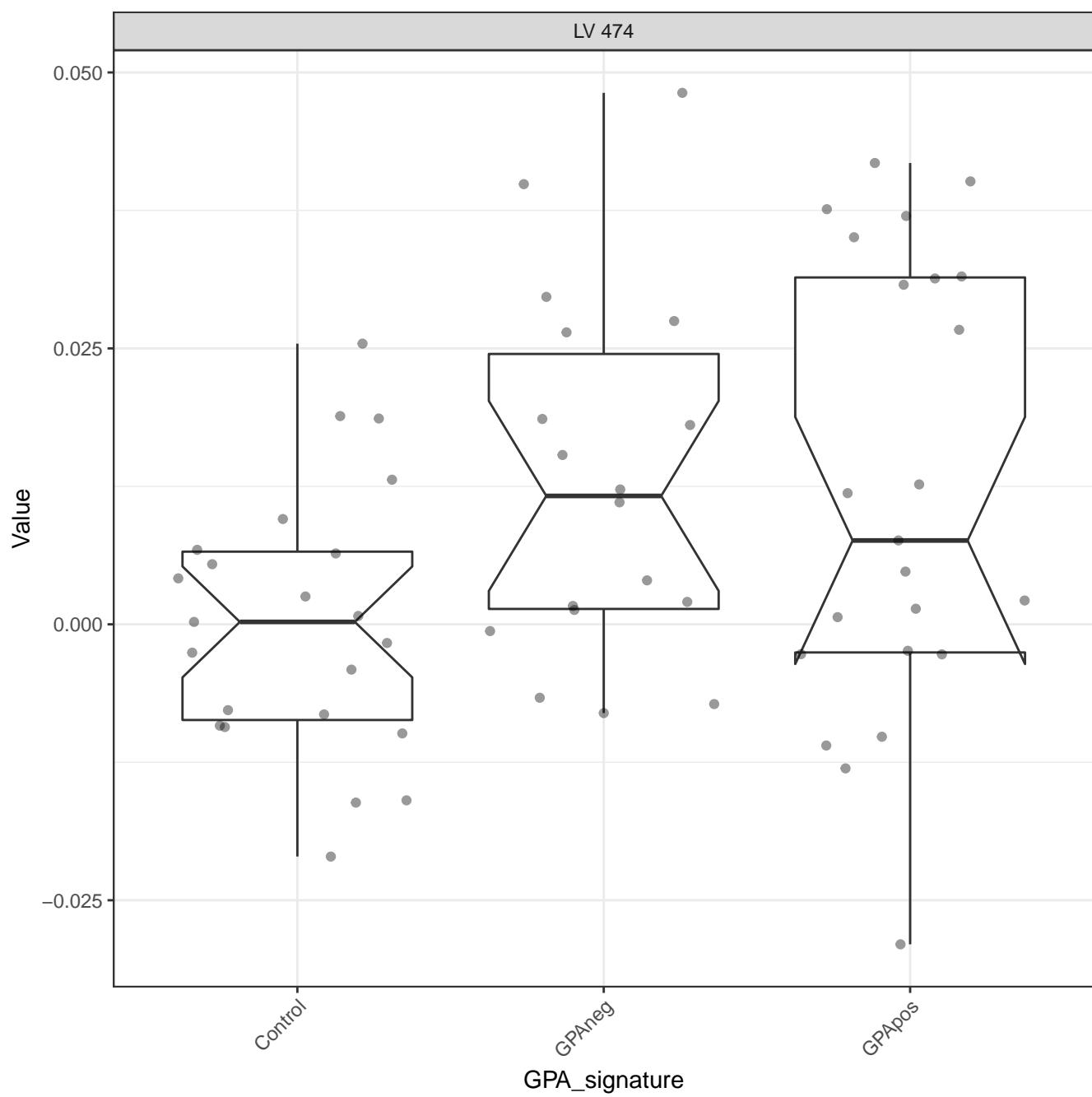
GPAneg

GPApos

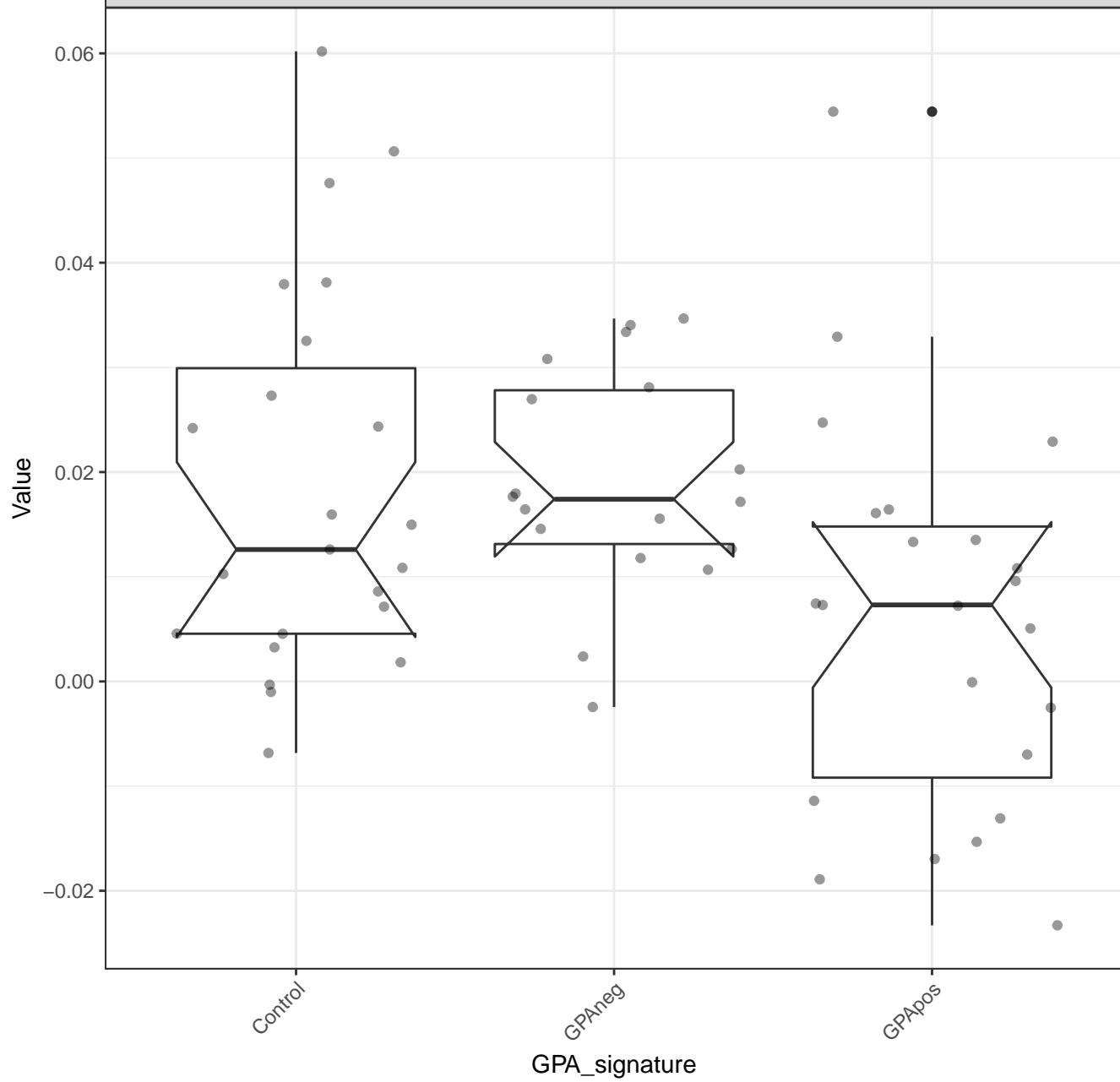
GPA\_signature



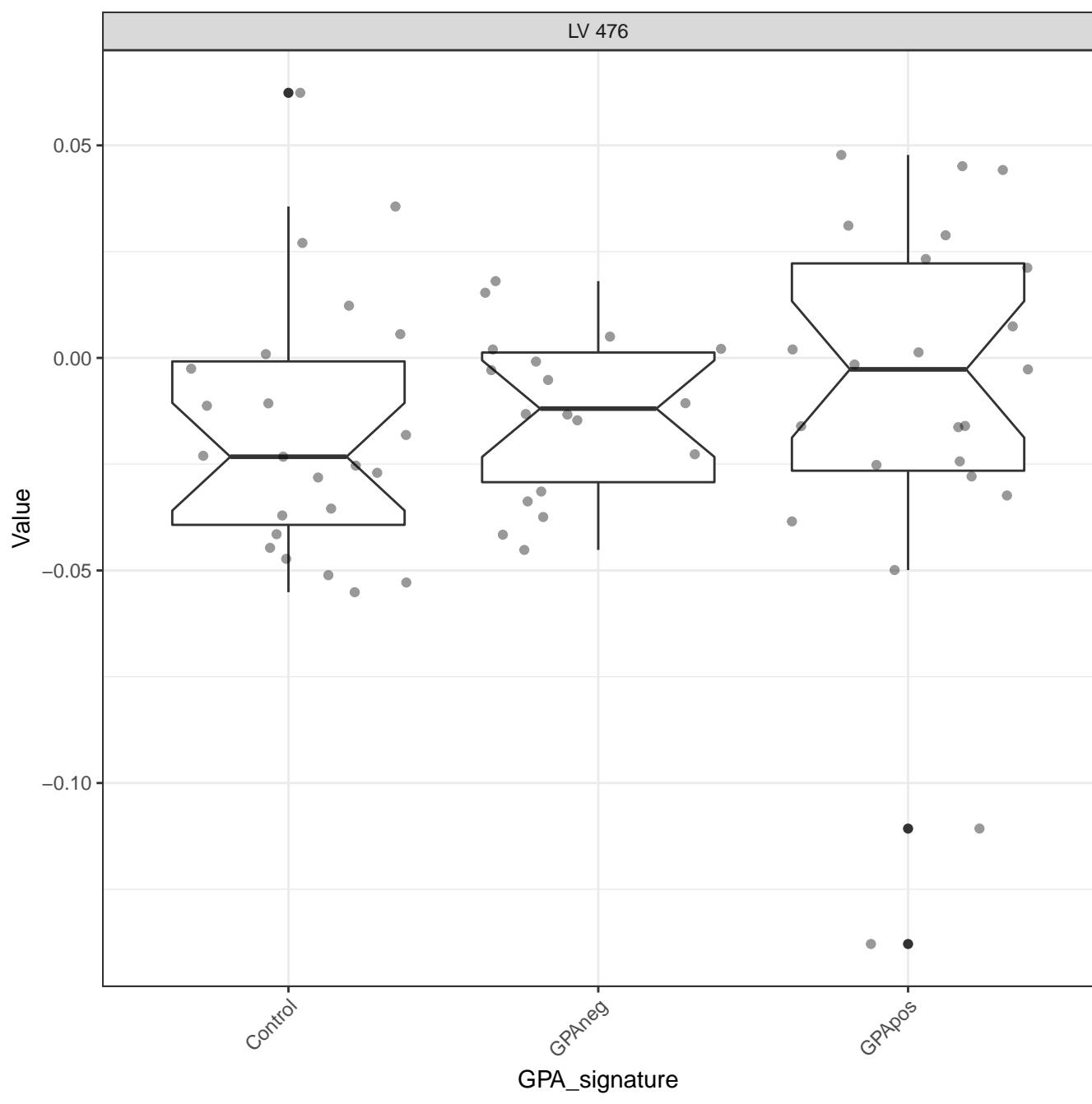
## LV 474



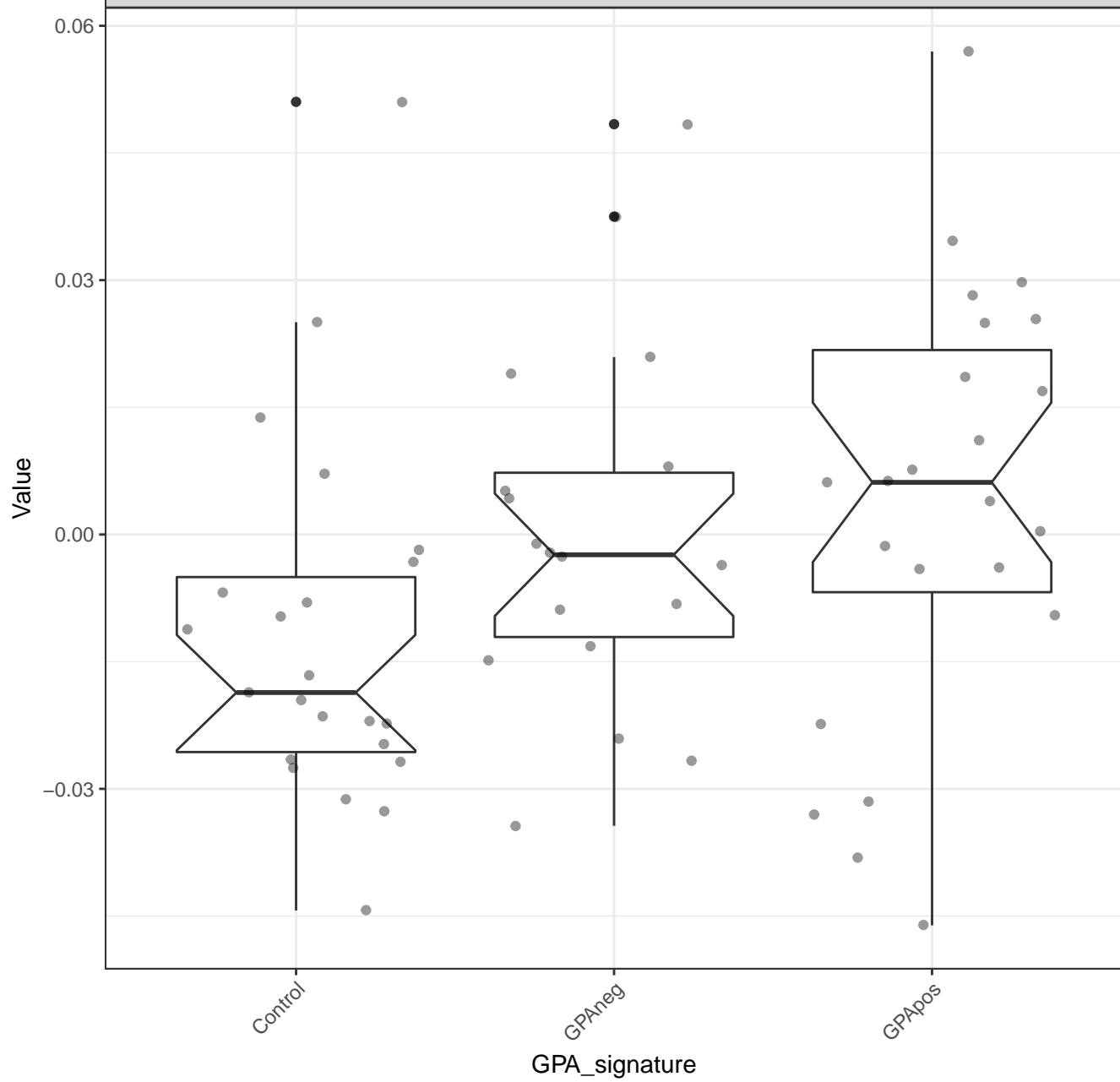
LV 475



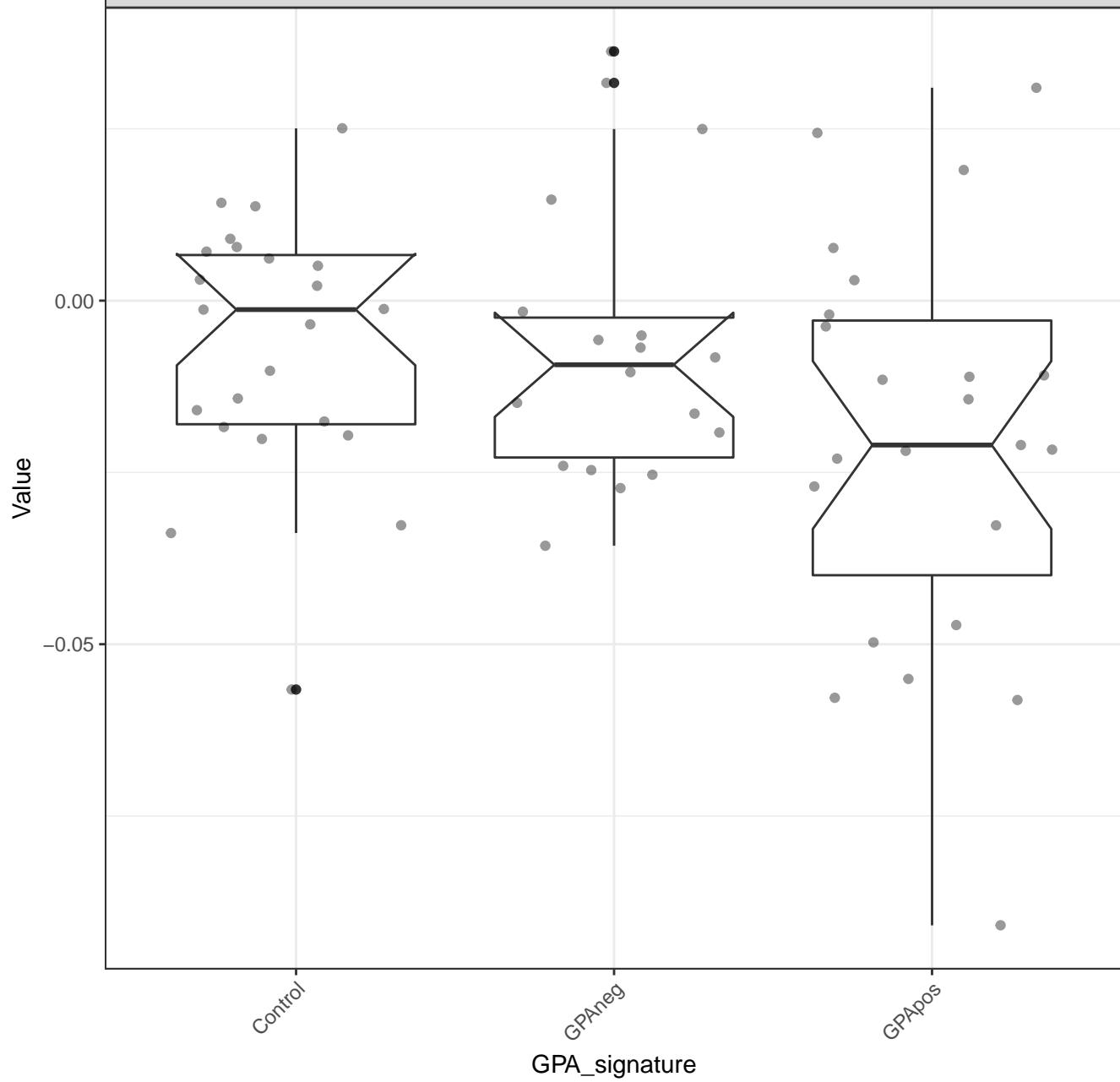
## LV 476



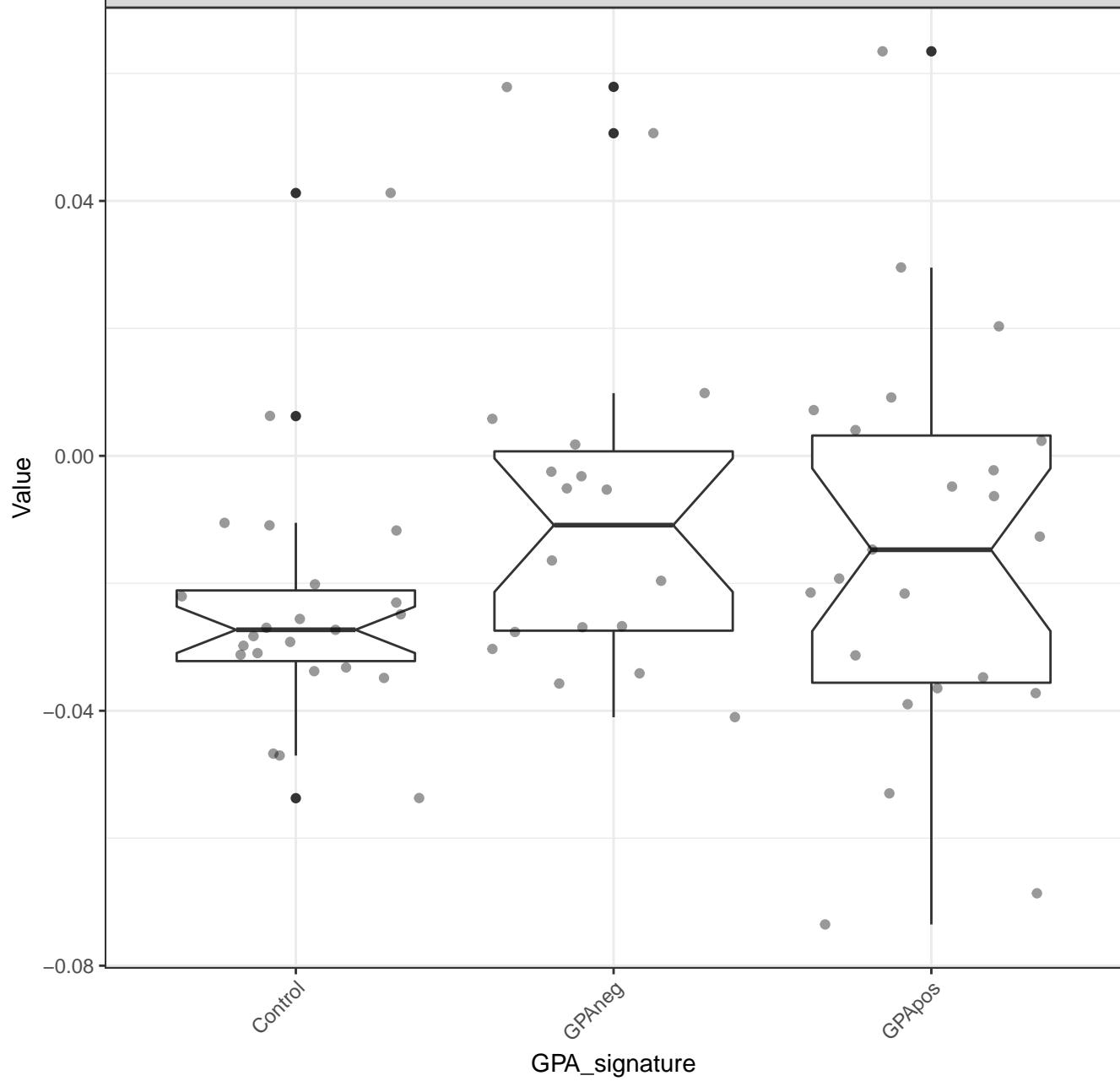
LV 477



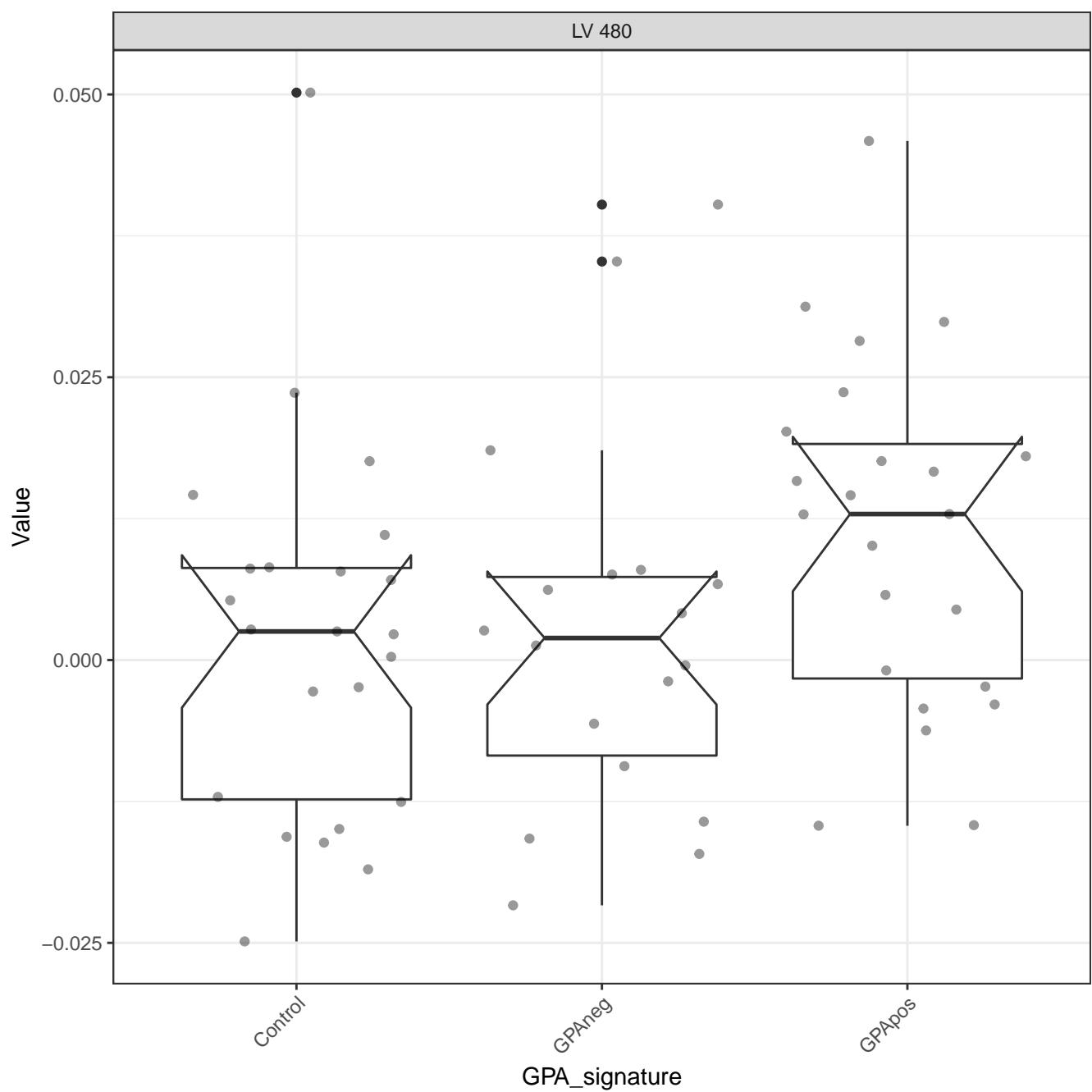
LV 478



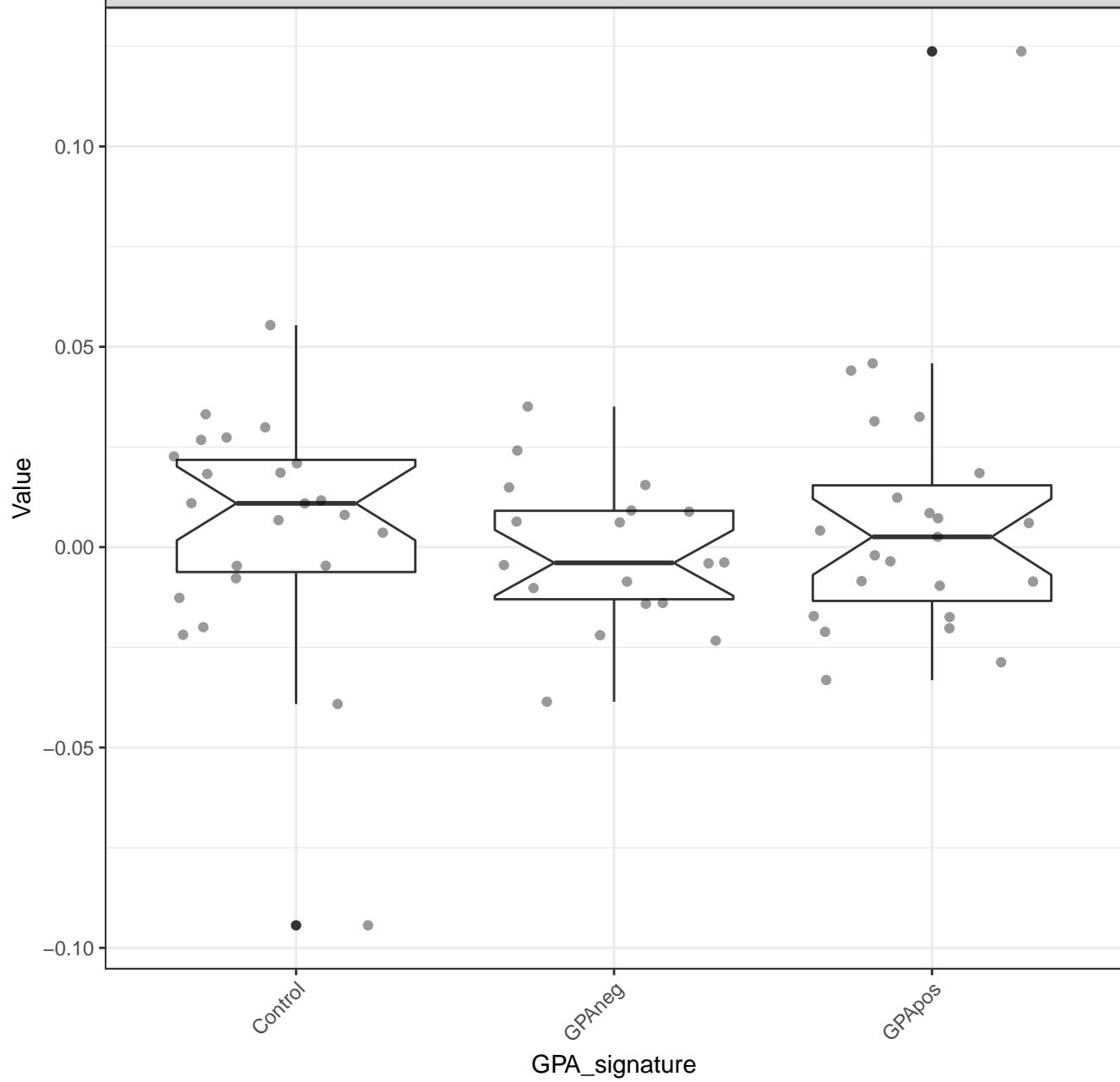
LV 479



## LV 480



## LV 481



LV 482

Value

0.05

0.00

-0.05

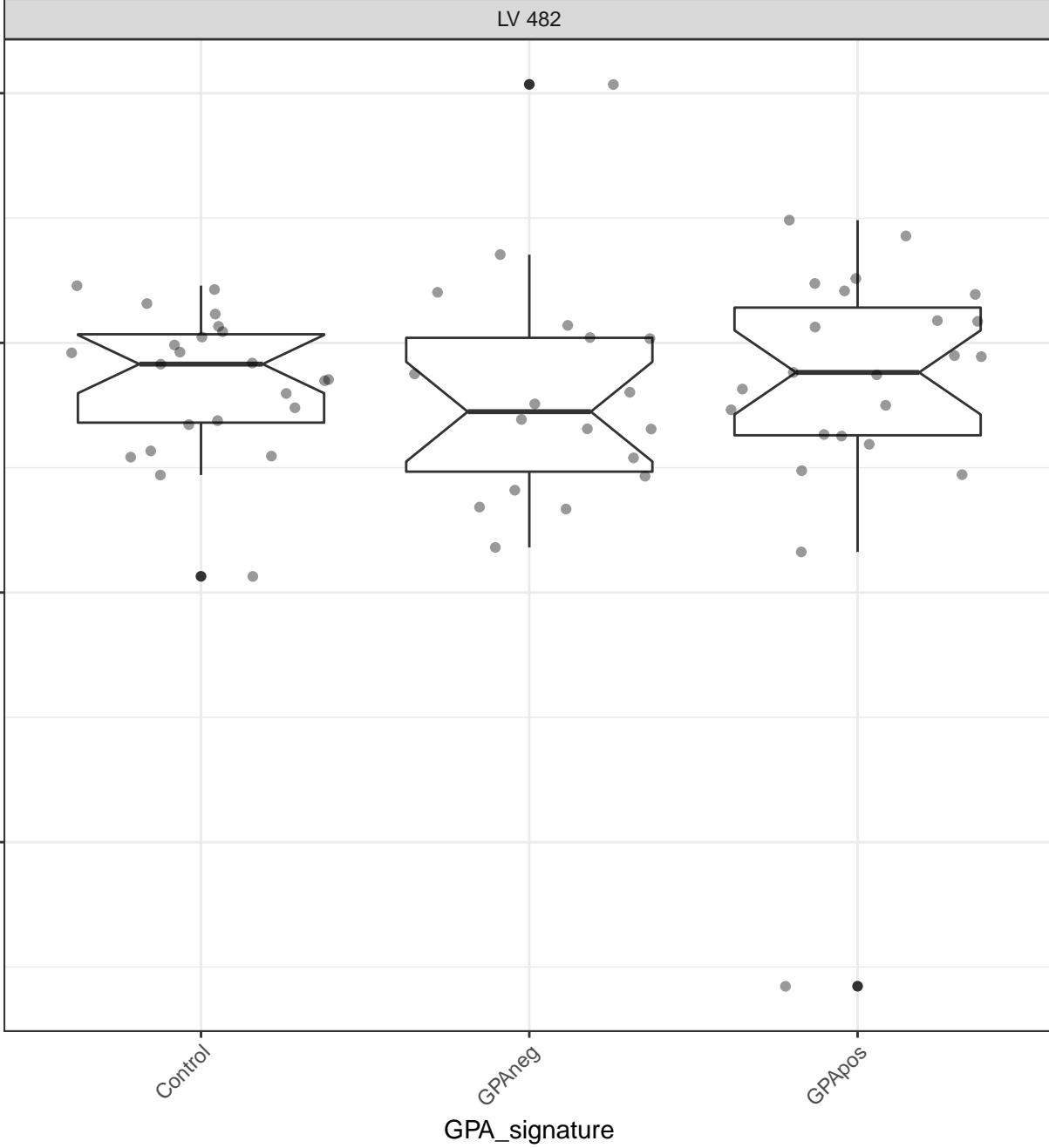
-0.10

Control

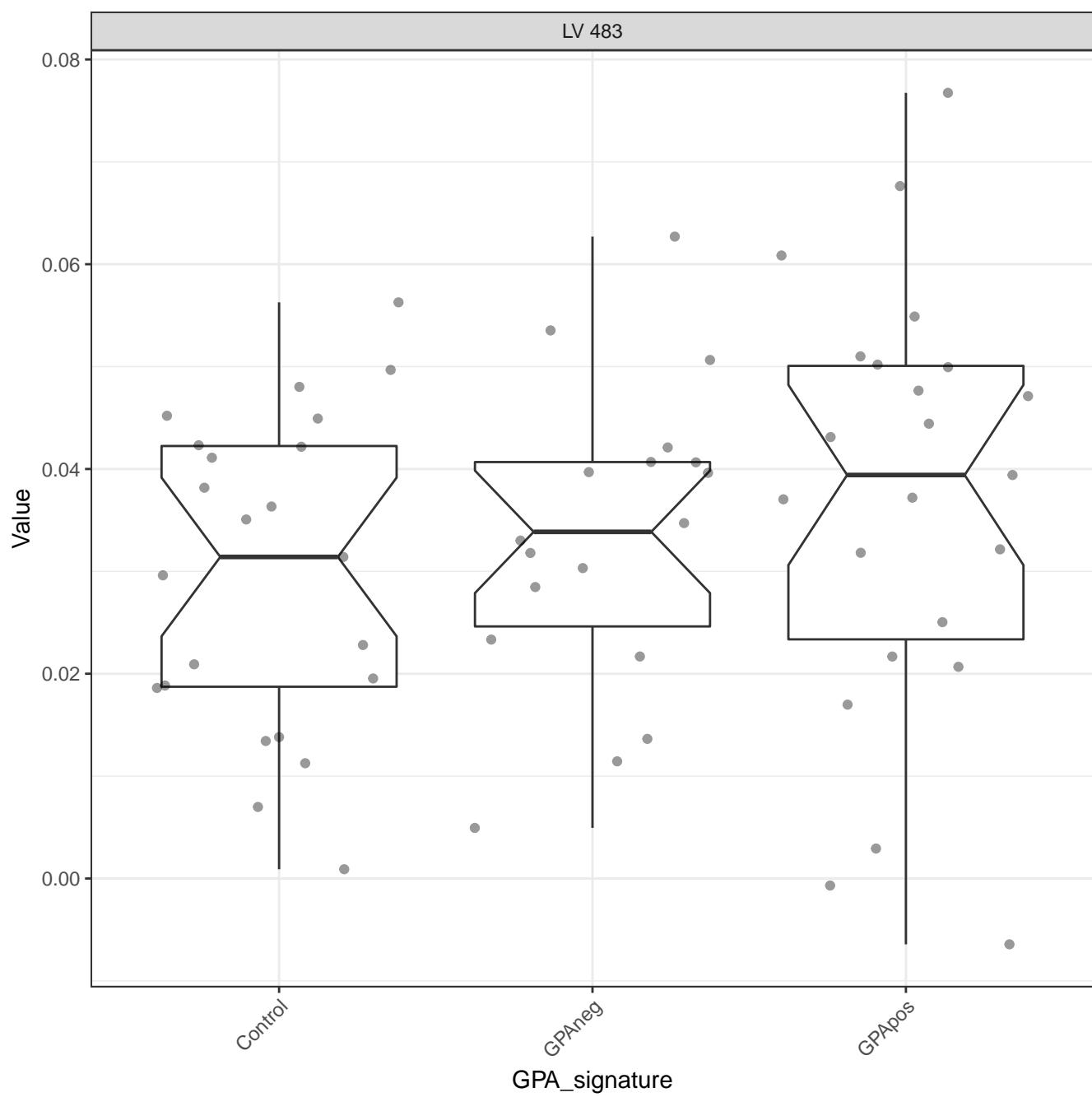
GPAneg

GPAPos

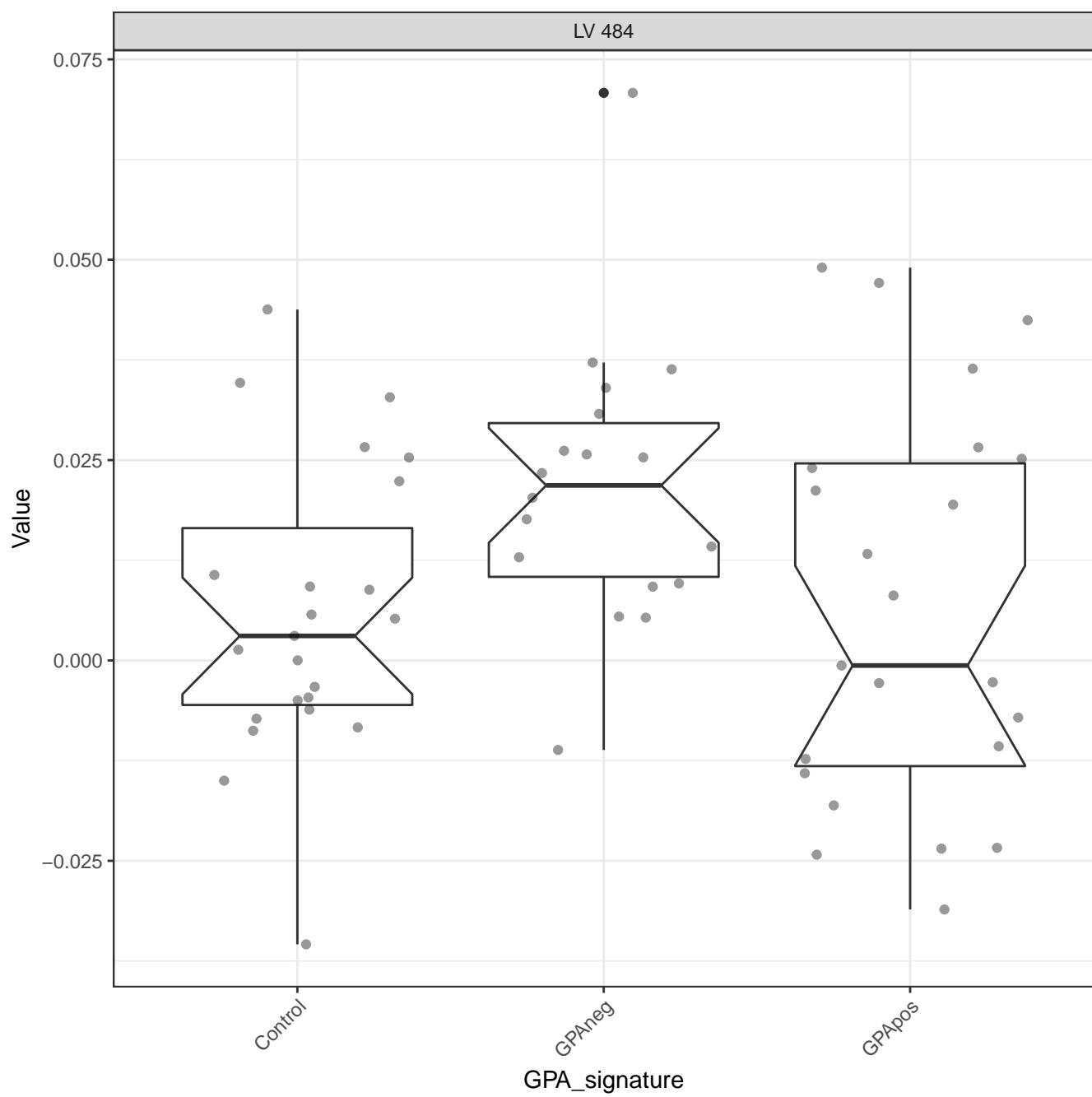
GPA\_signature



LV 483



LV 484



LV 485

Value

0.04

0.02

0.00

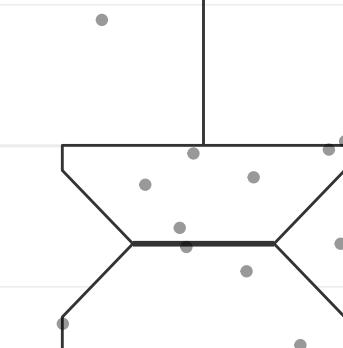
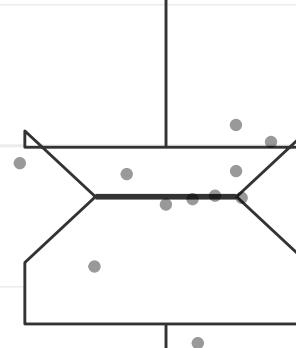
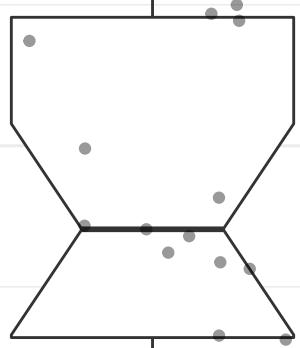
-0.02

Control

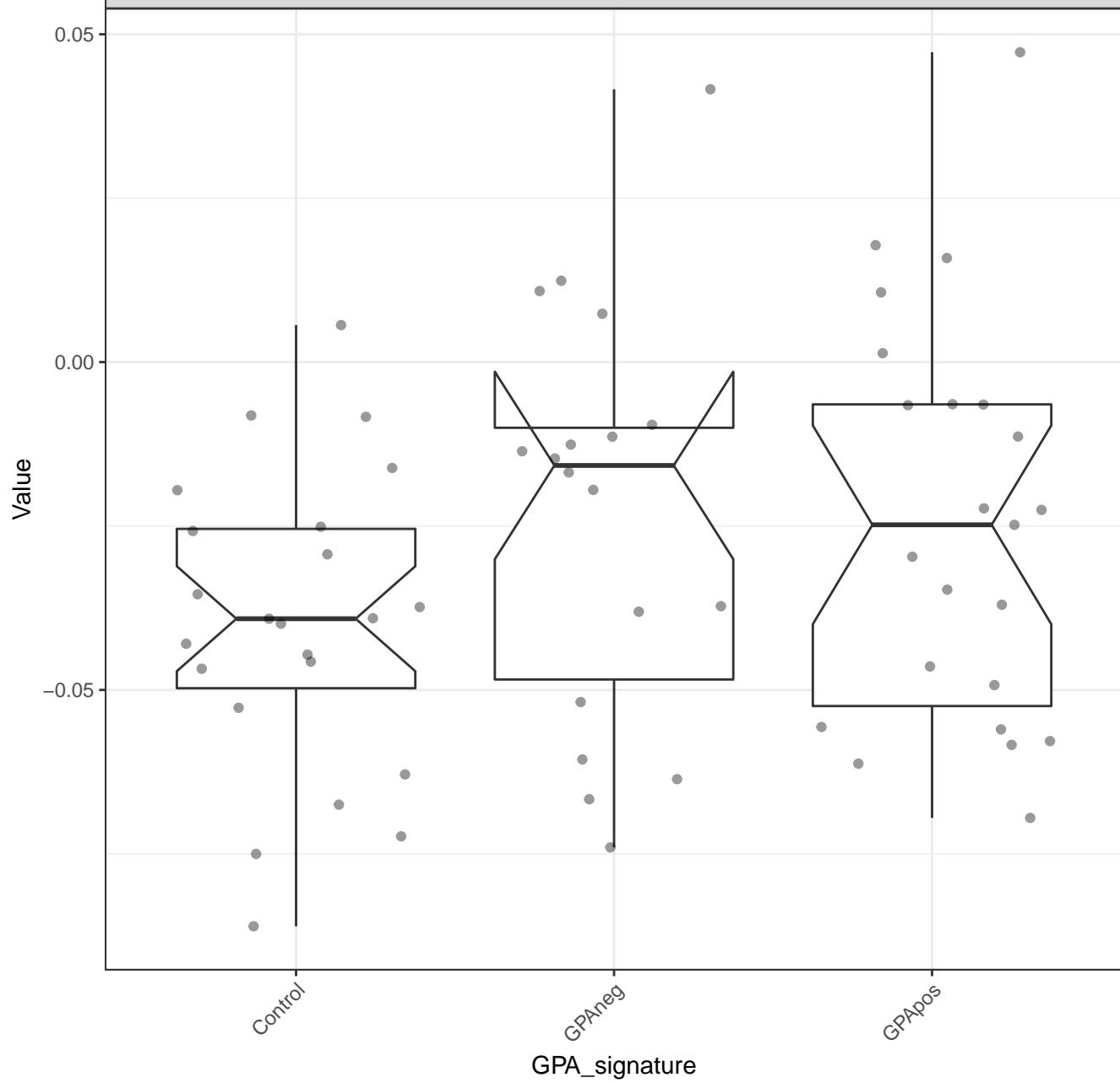
GPAneg

GPApos

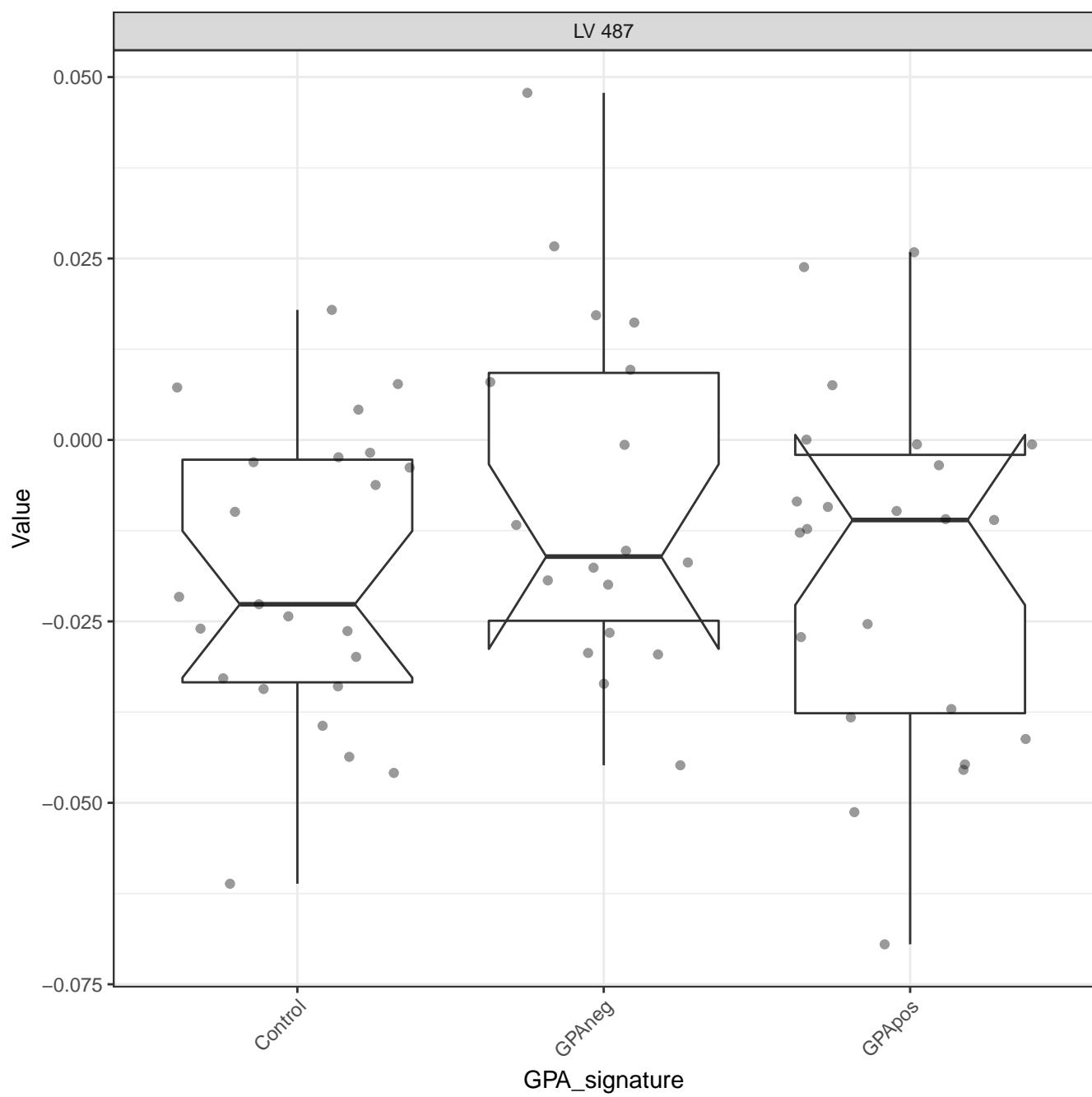
GPA\_signature



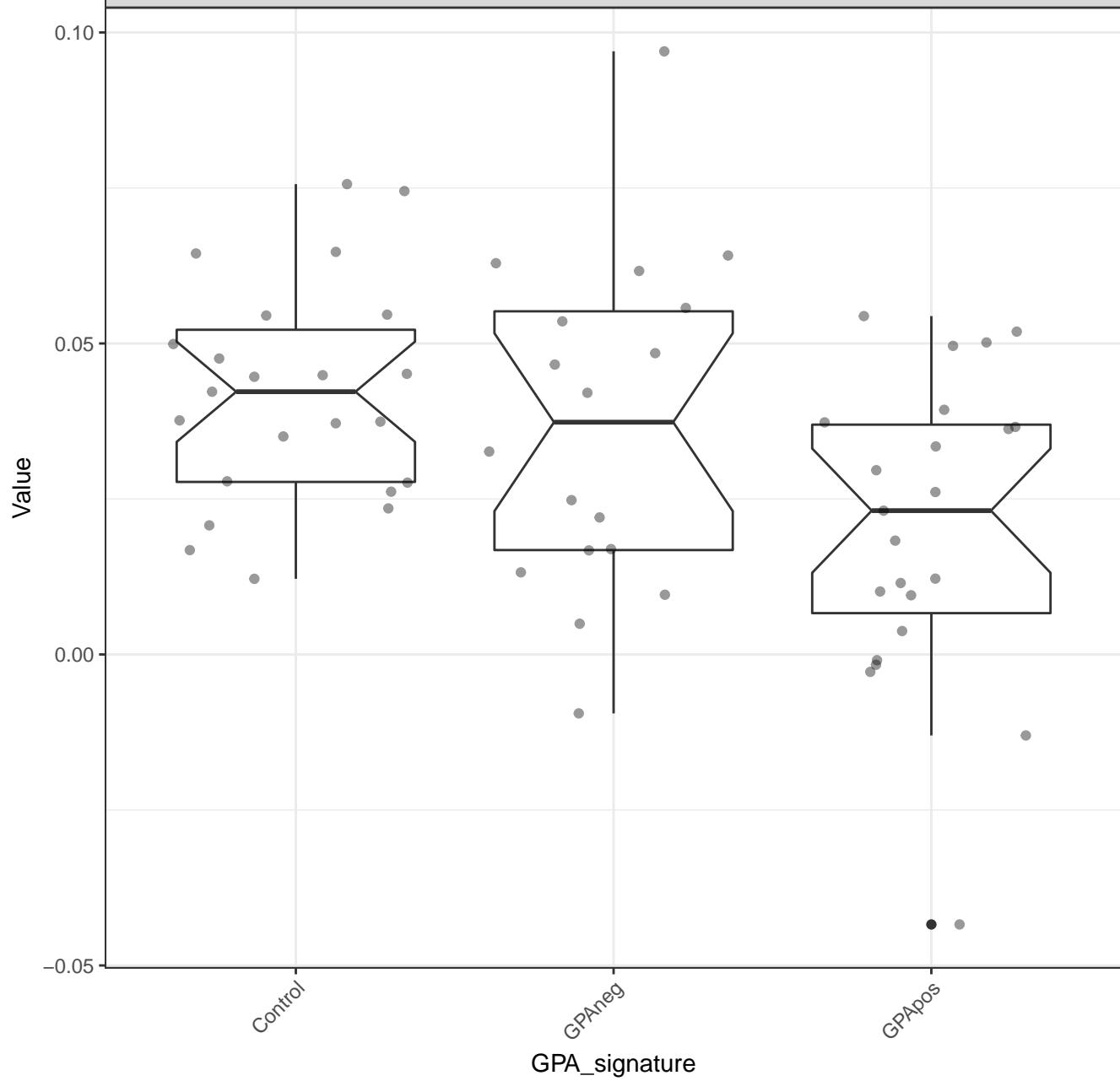
LV 486



## LV 487



LV 488



LV 489

Value

0.04

0.02

0.00

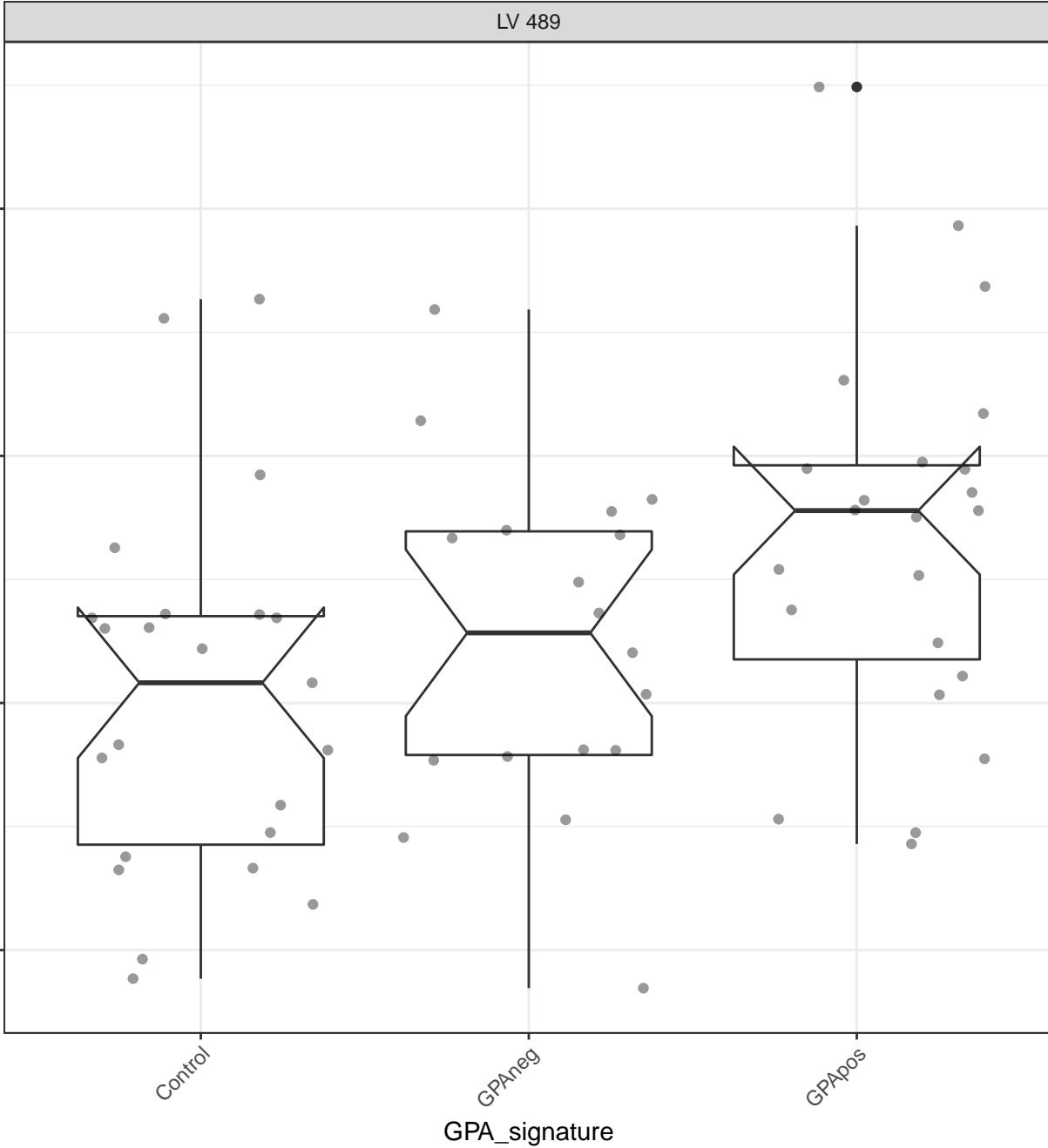
-0.02

Control

GPAneg

GPApos

GPA\_signature



LV 490

Value

0.02

0.00

-0.02

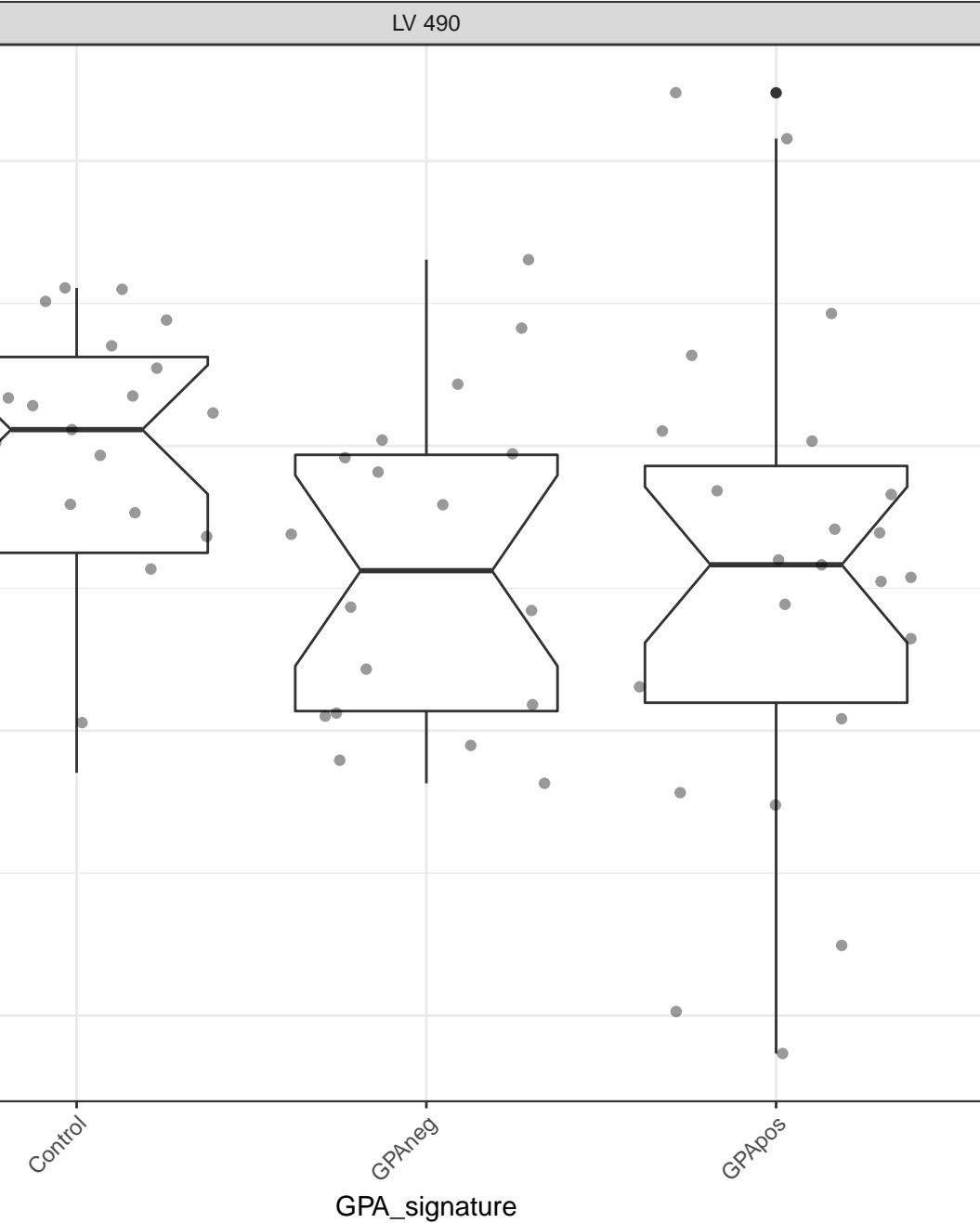
-0.04

Control

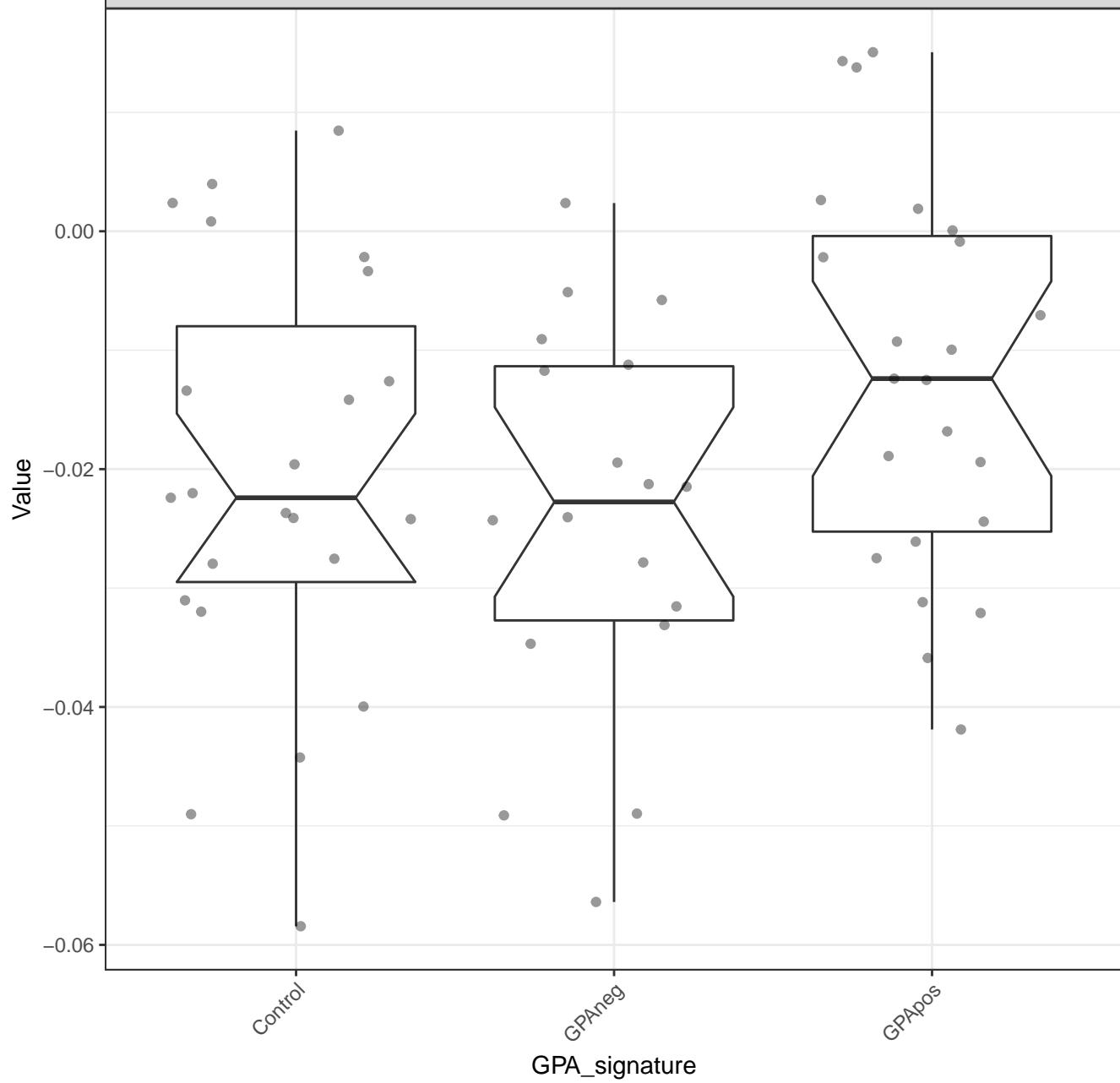
GPA\_signature

GPAneg

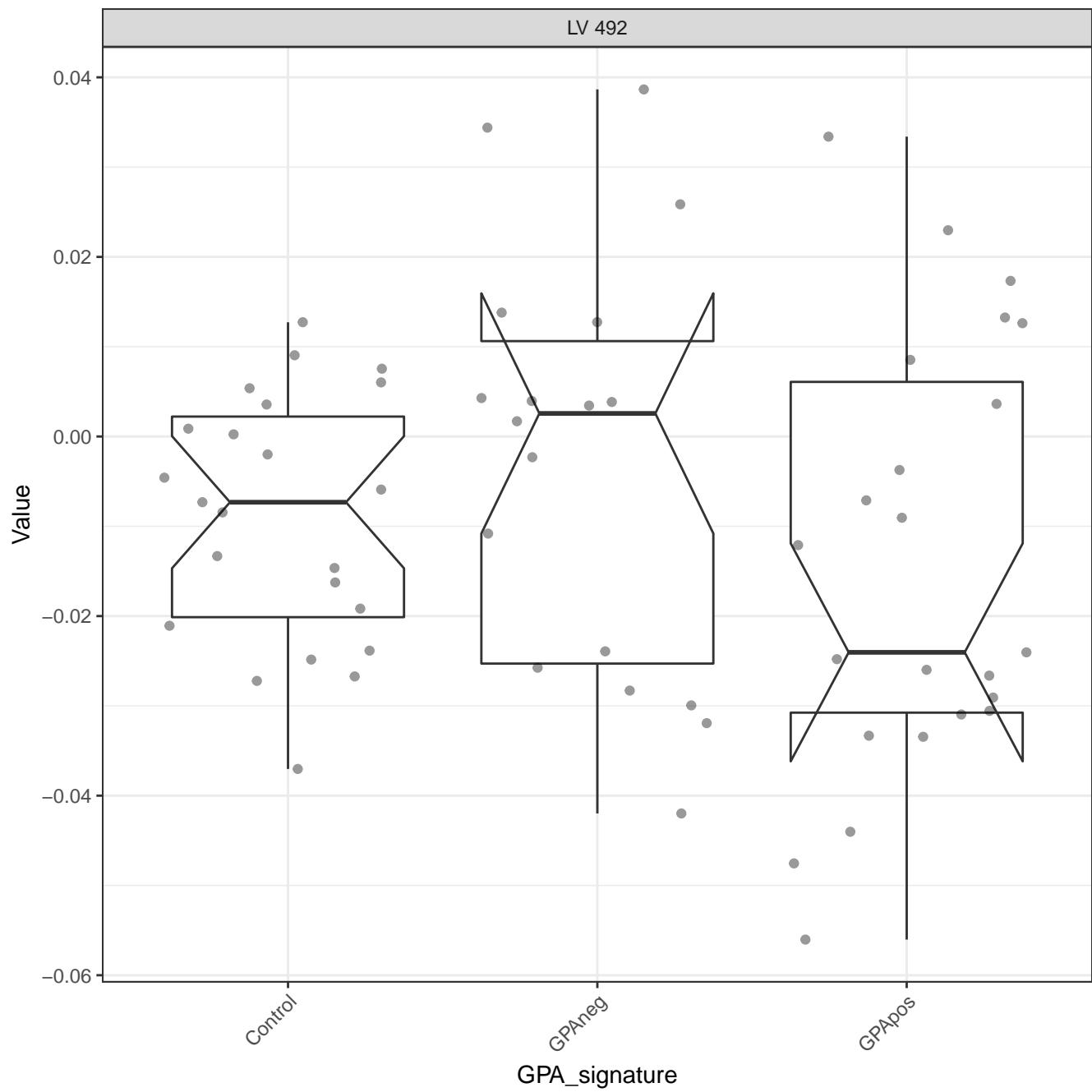
GPAPos



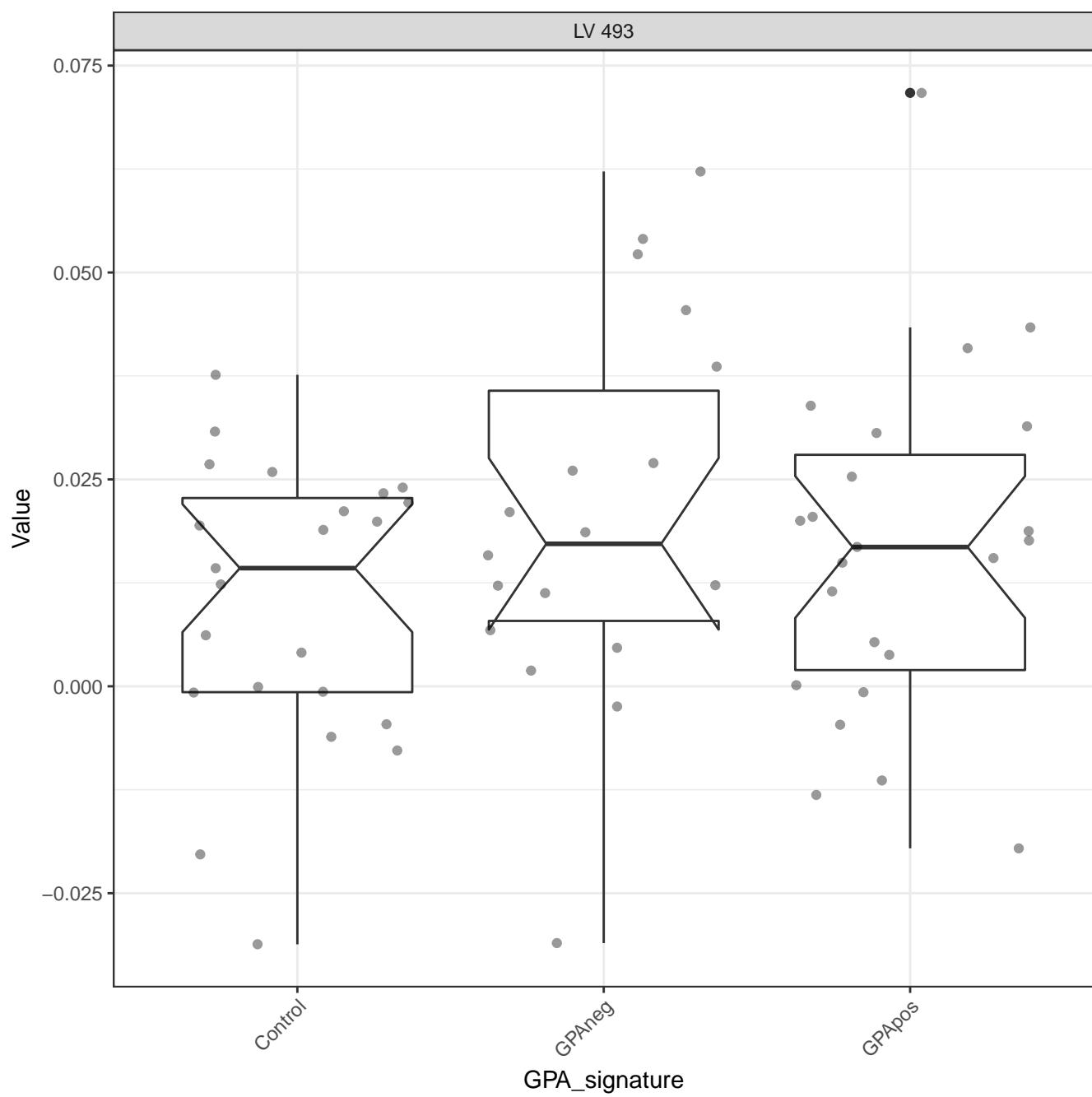
LV 491



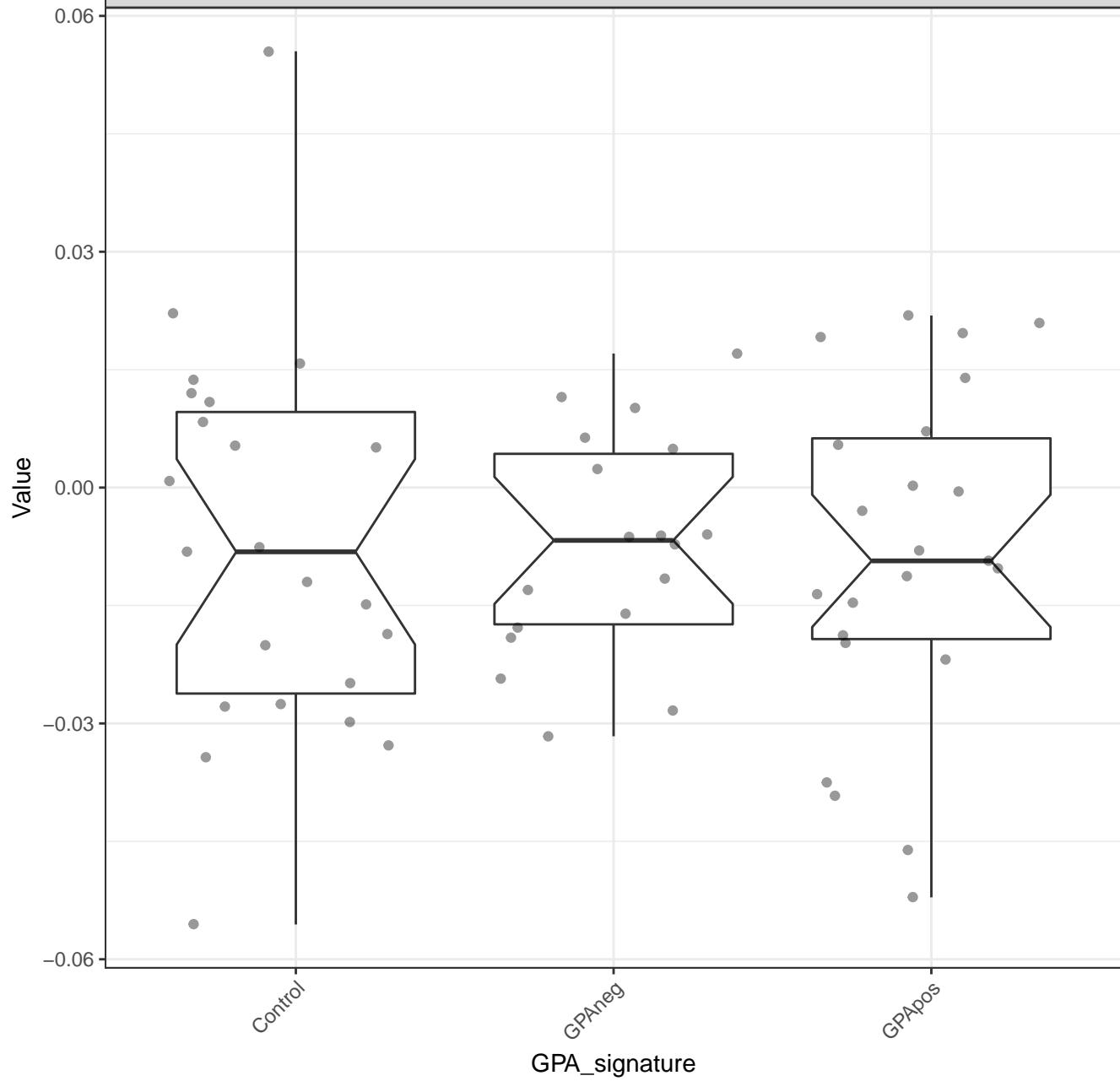
## LV 492

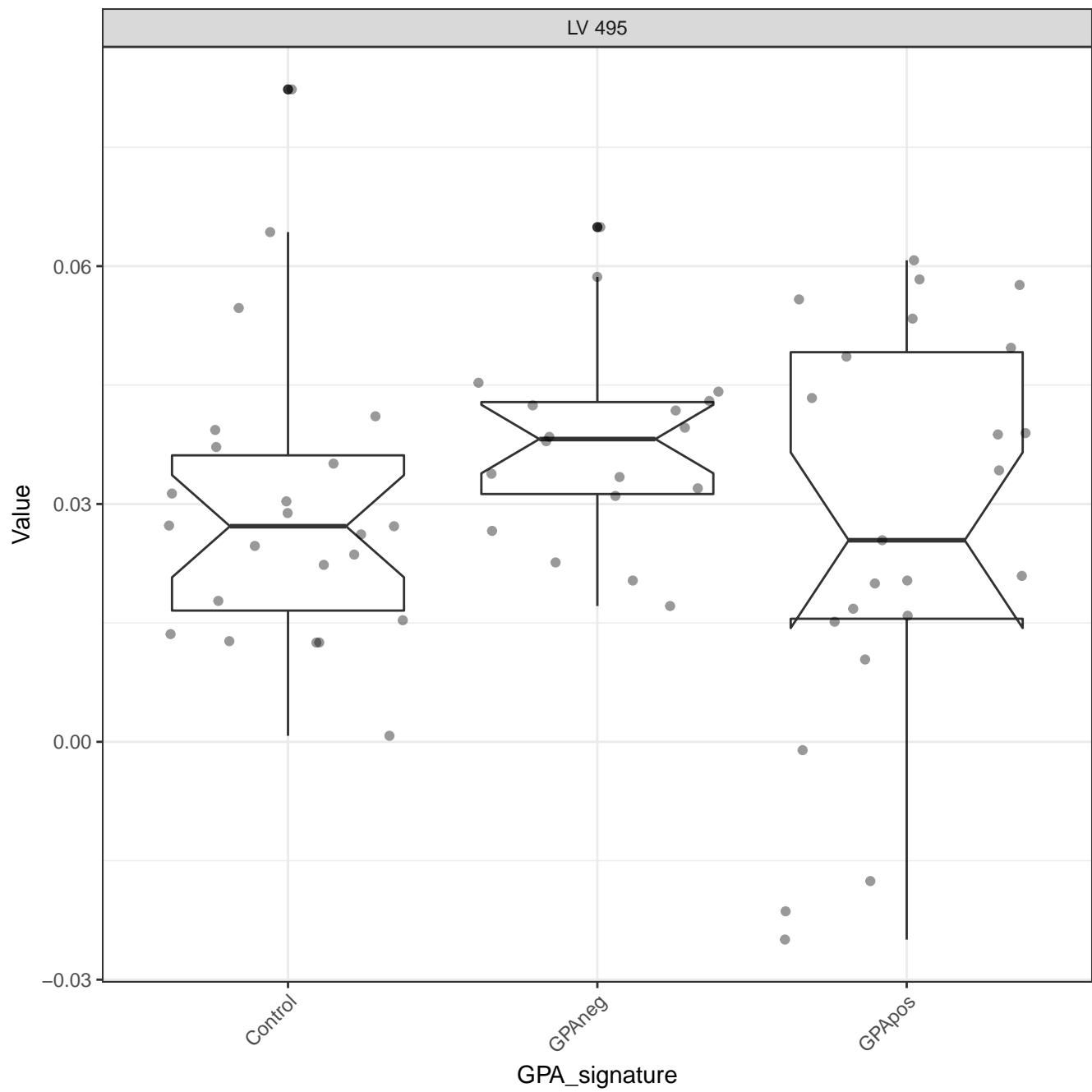


## LV 493



LV 494





LV 496

Value

0.02

0.00

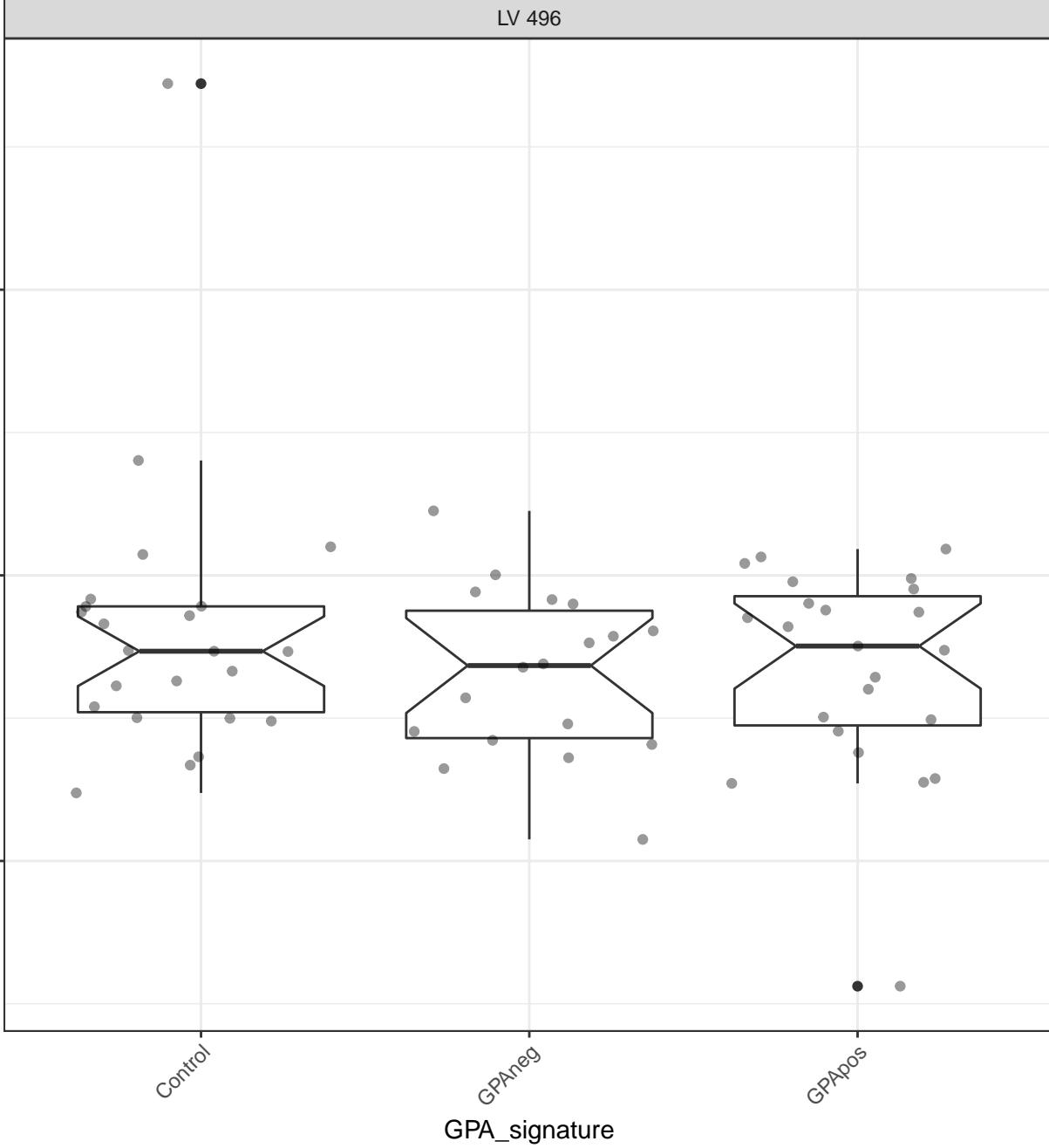
-0.02

Control

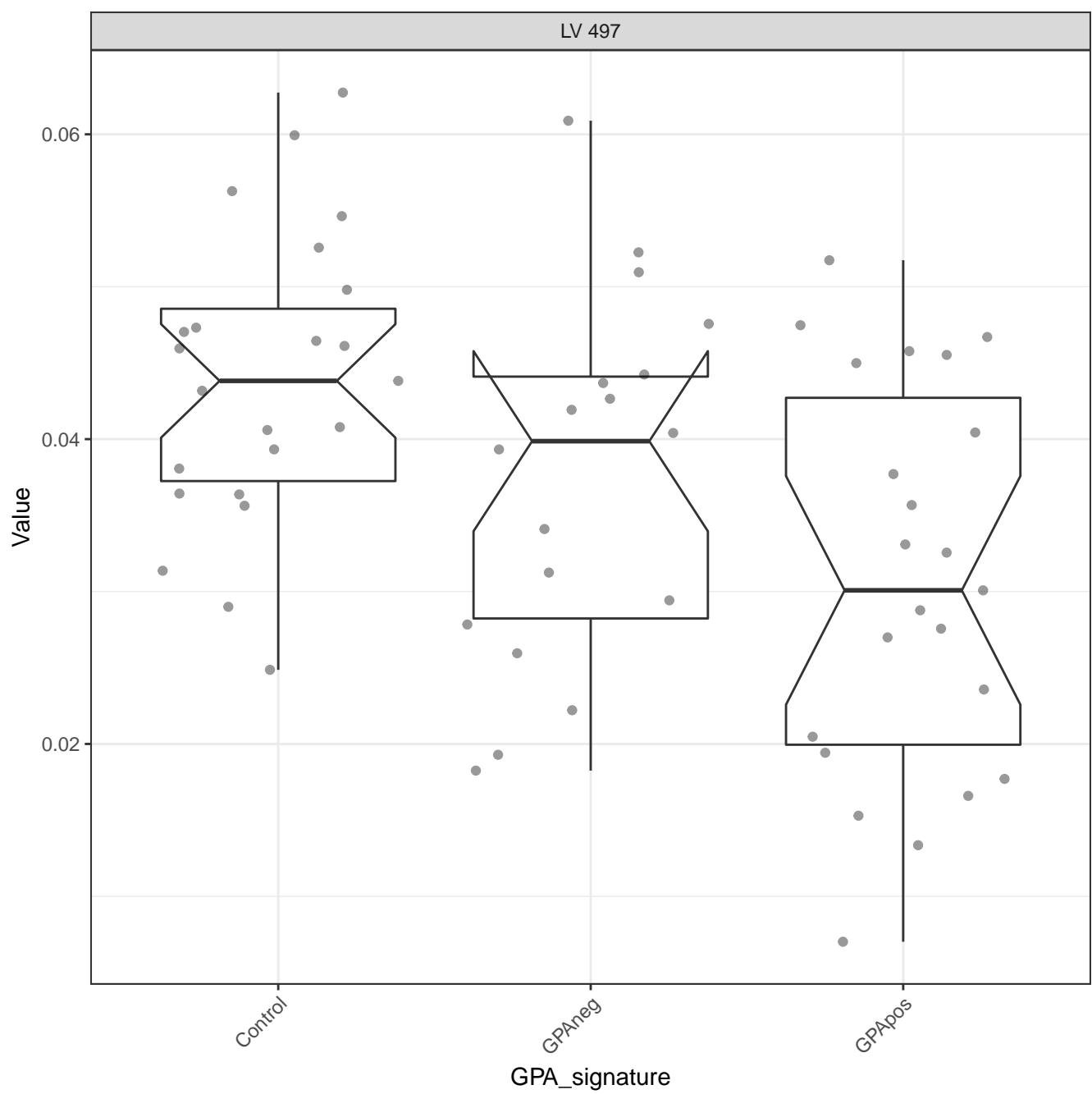
GPAneg

GPApos

GPA\_signature



## LV 497



LV 498

Value

0.05

0.01

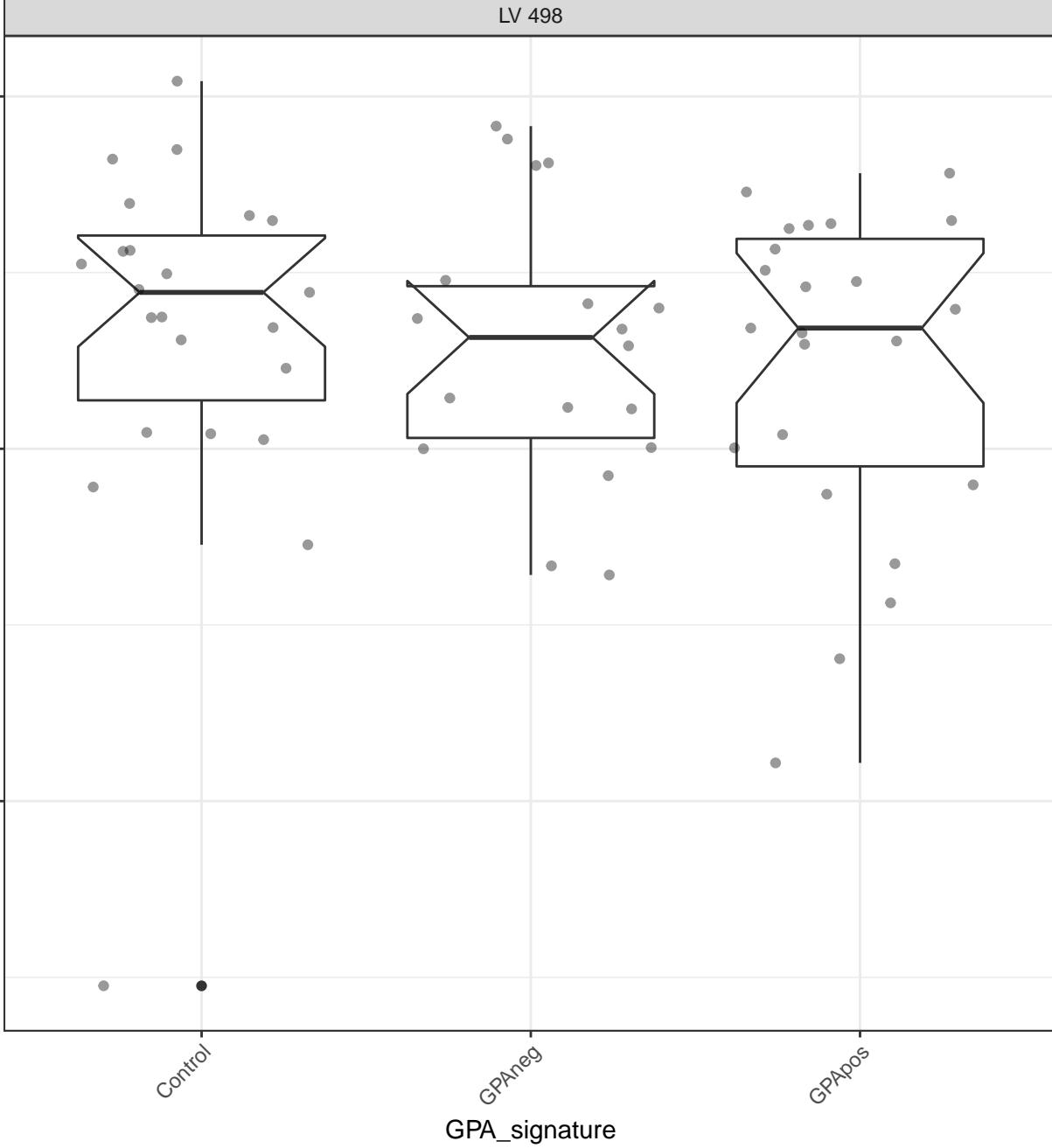
-0.05

Control

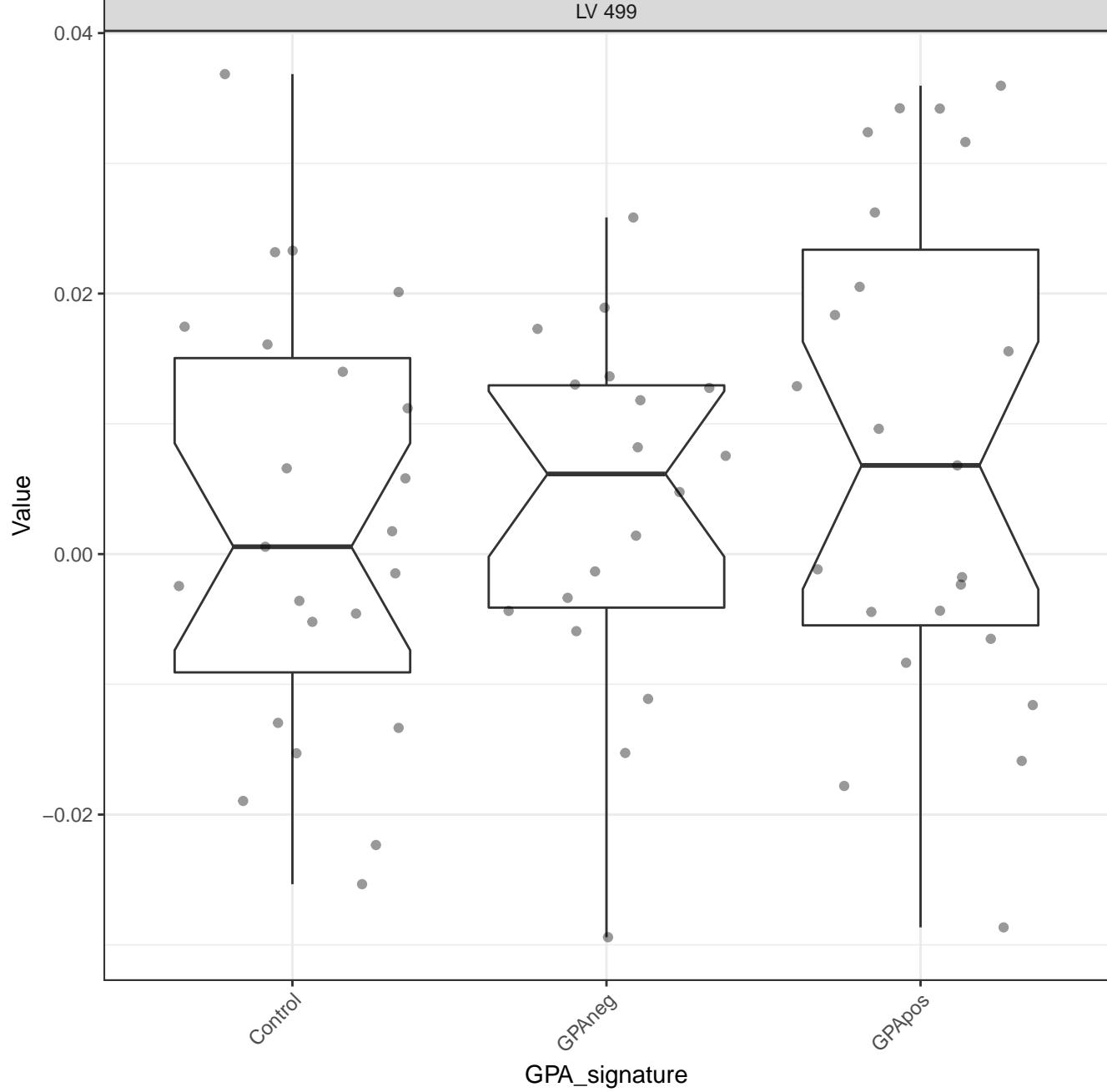
GPAneg

GPApos

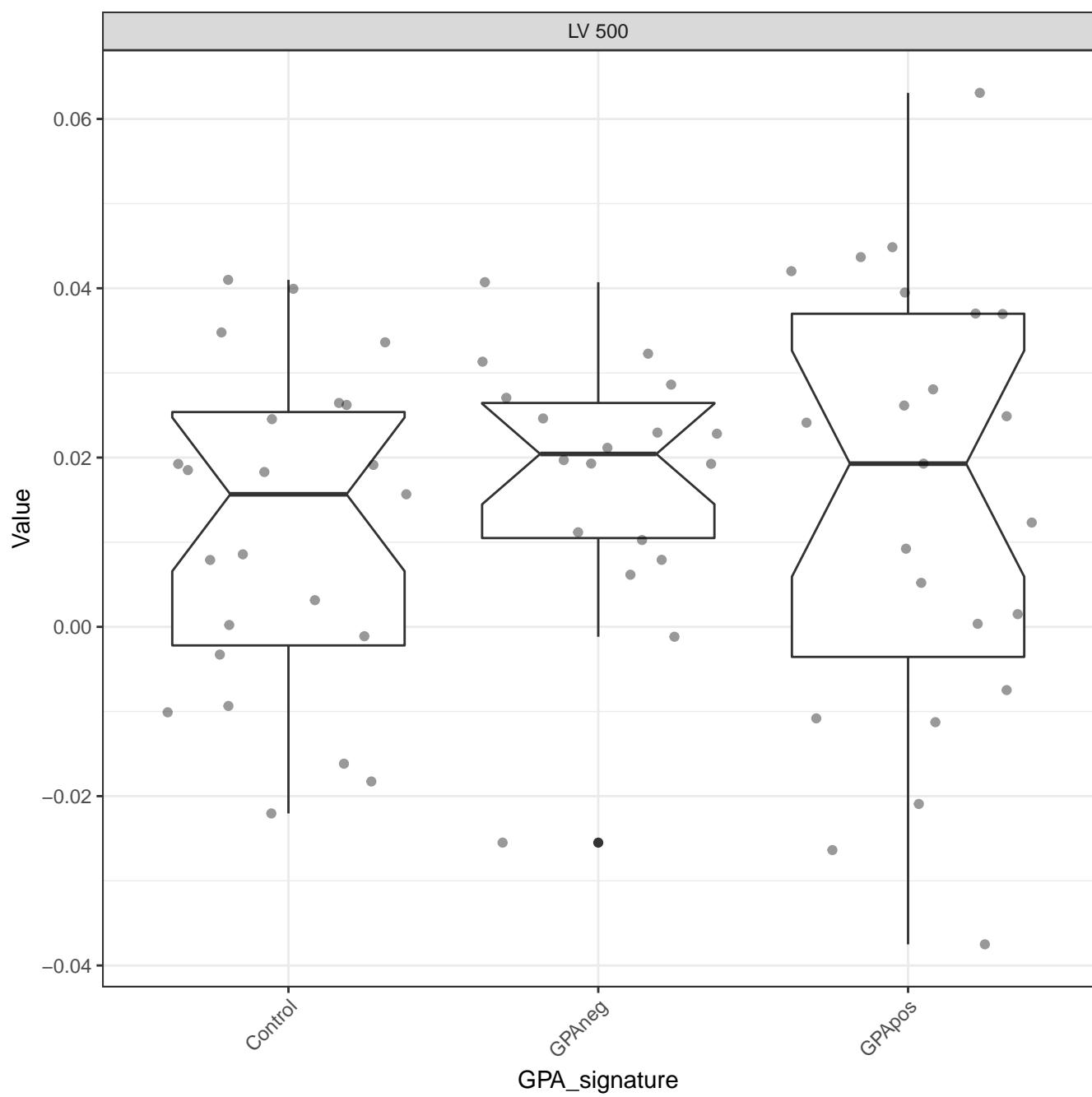
GPA\_signature



LV 499



## LV 500



501,SVM NK cells activated

Value

0.10

0.05

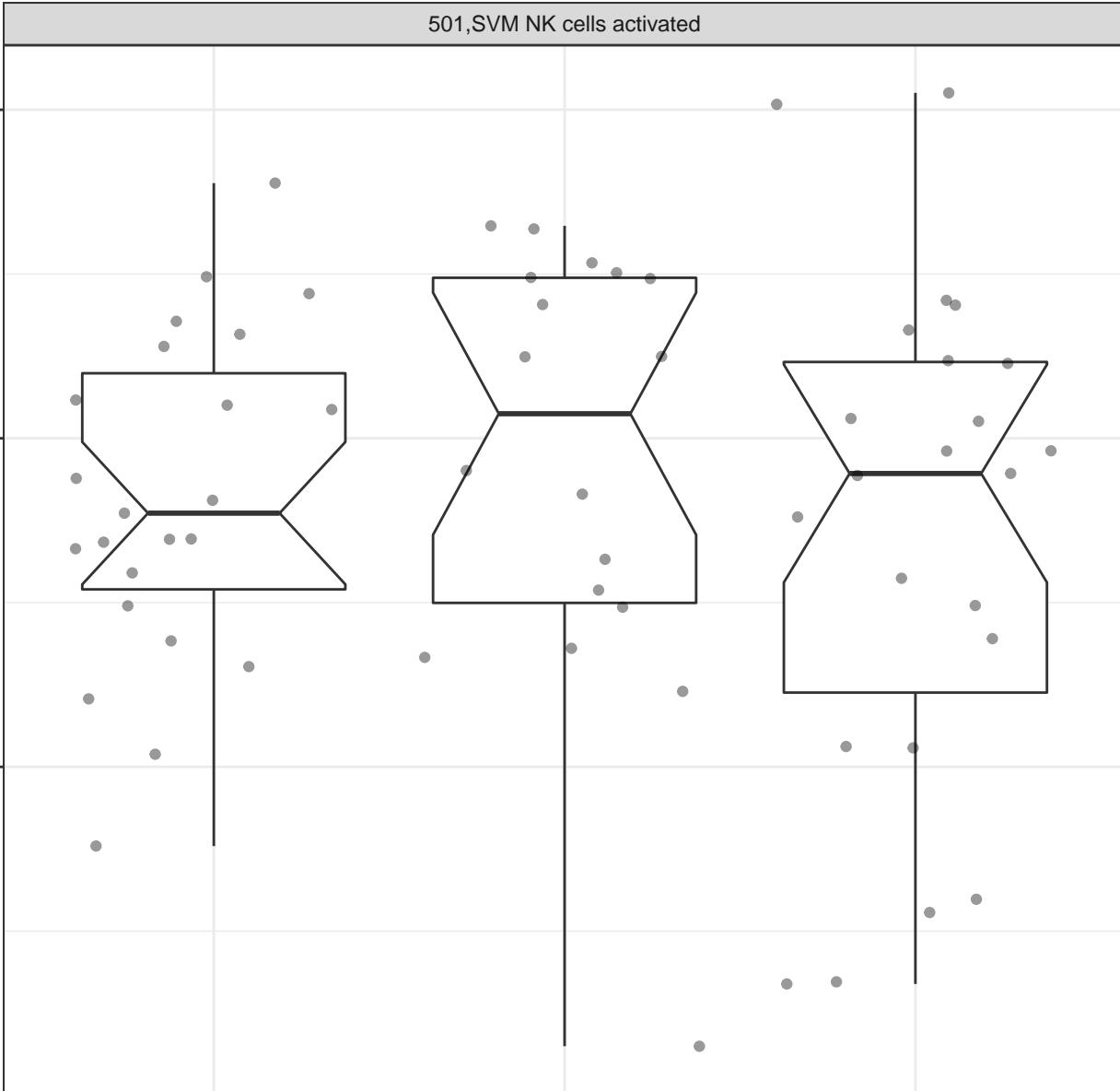
0.01

Control

GPA\_signature

GPAneg

GPApos



## LV 502

Value

0.04

0.02

0.00

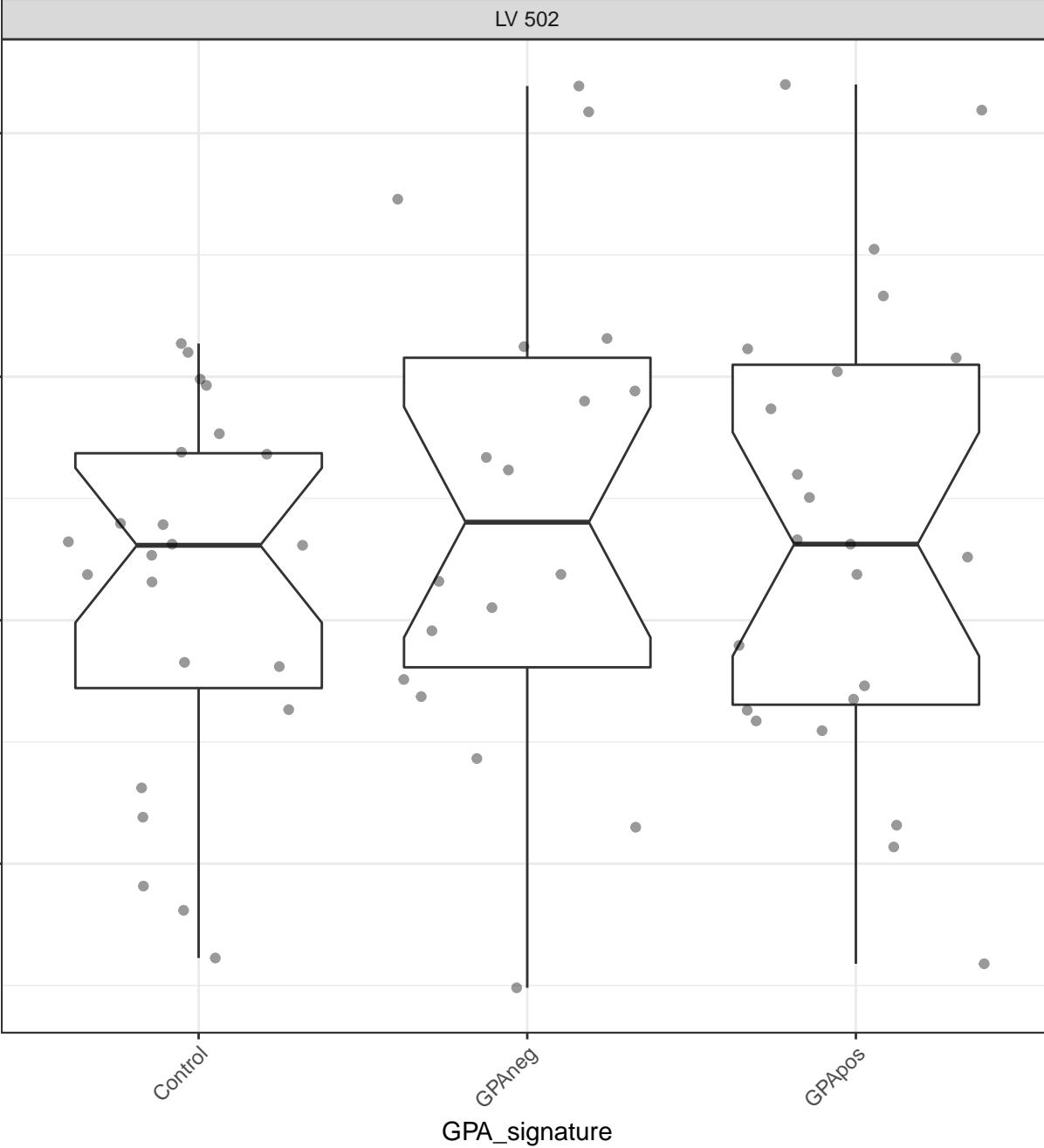
-0.02

Control

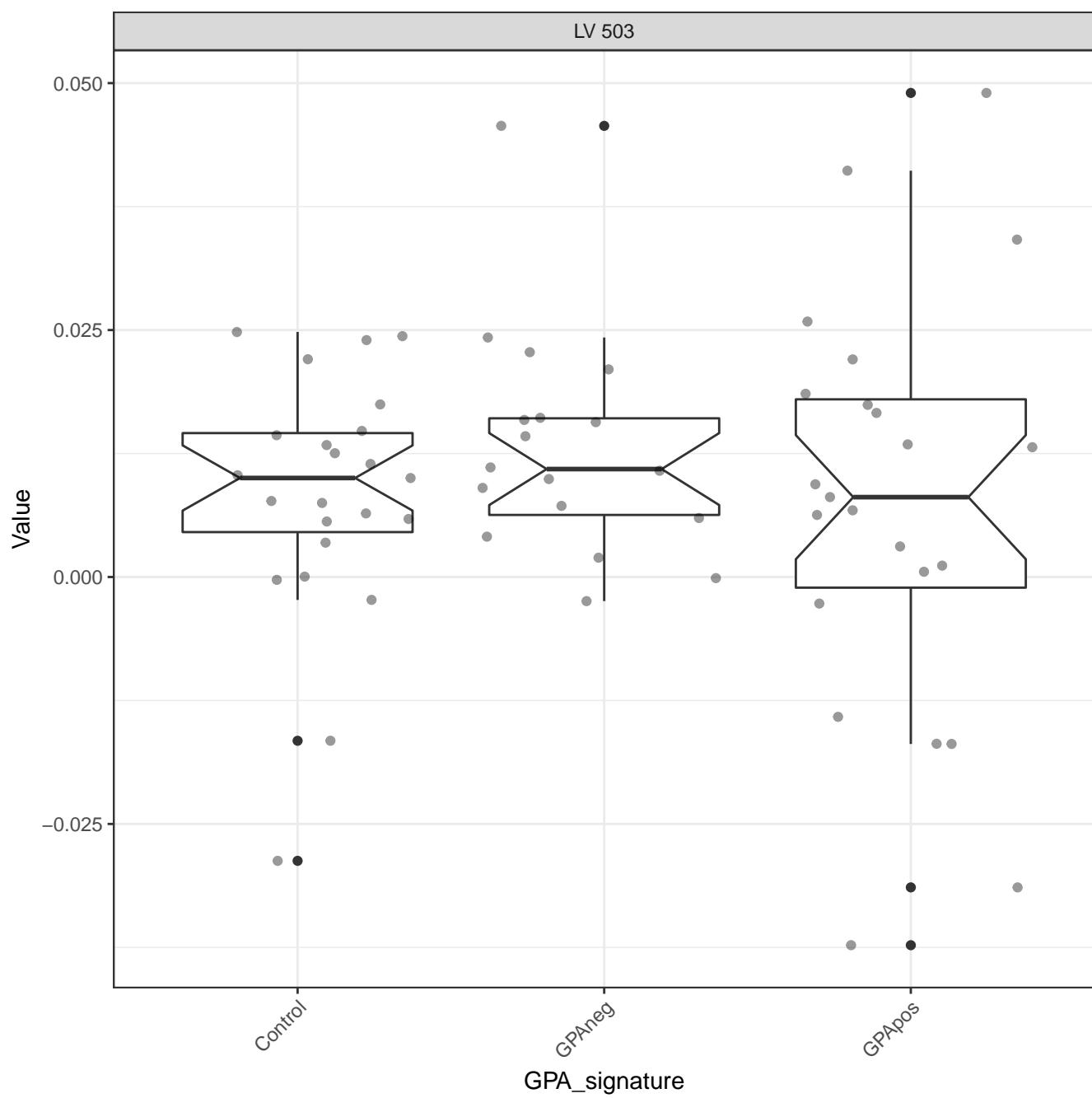
GPAneg

GPAPos

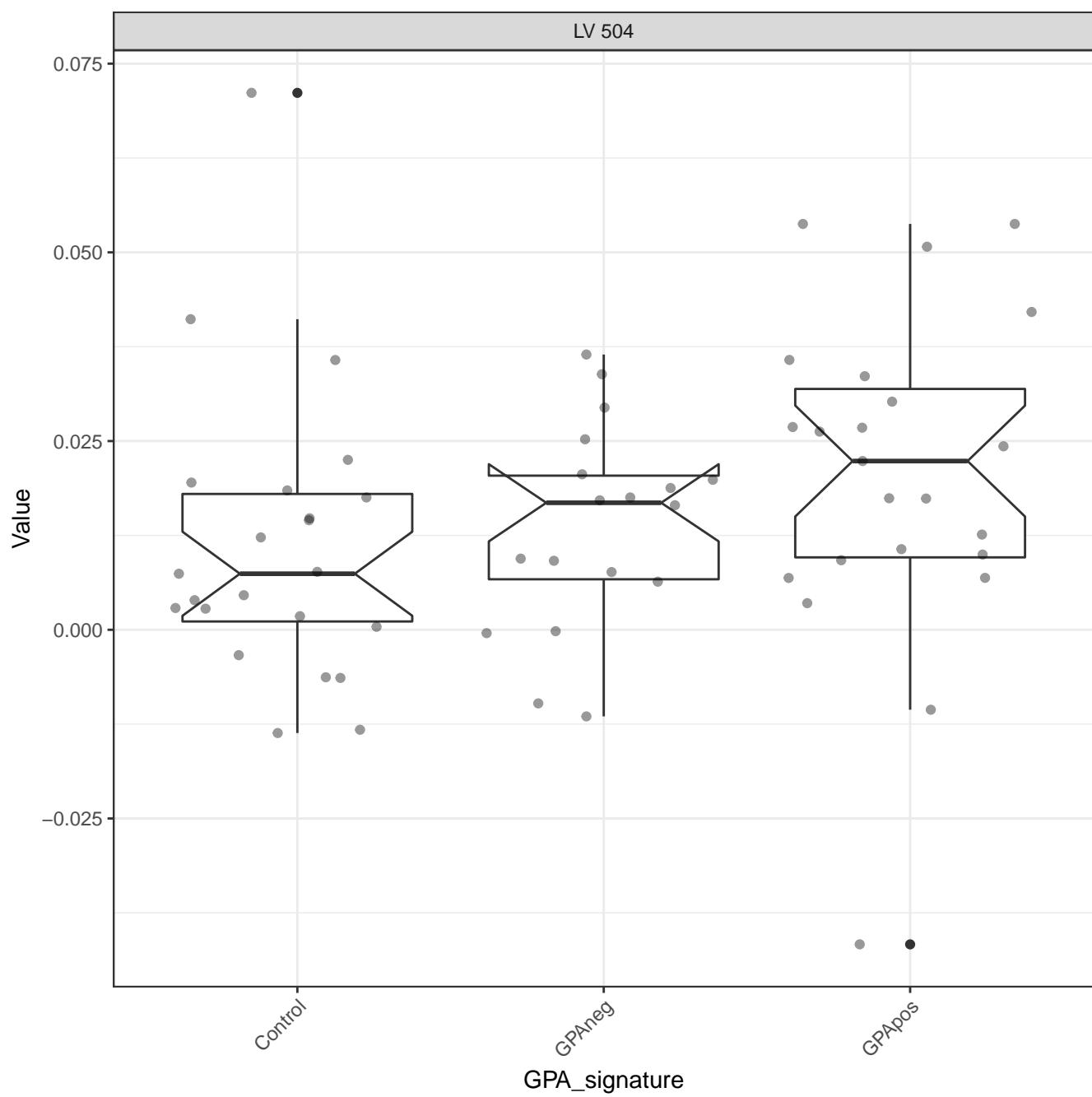
GPA\_signature



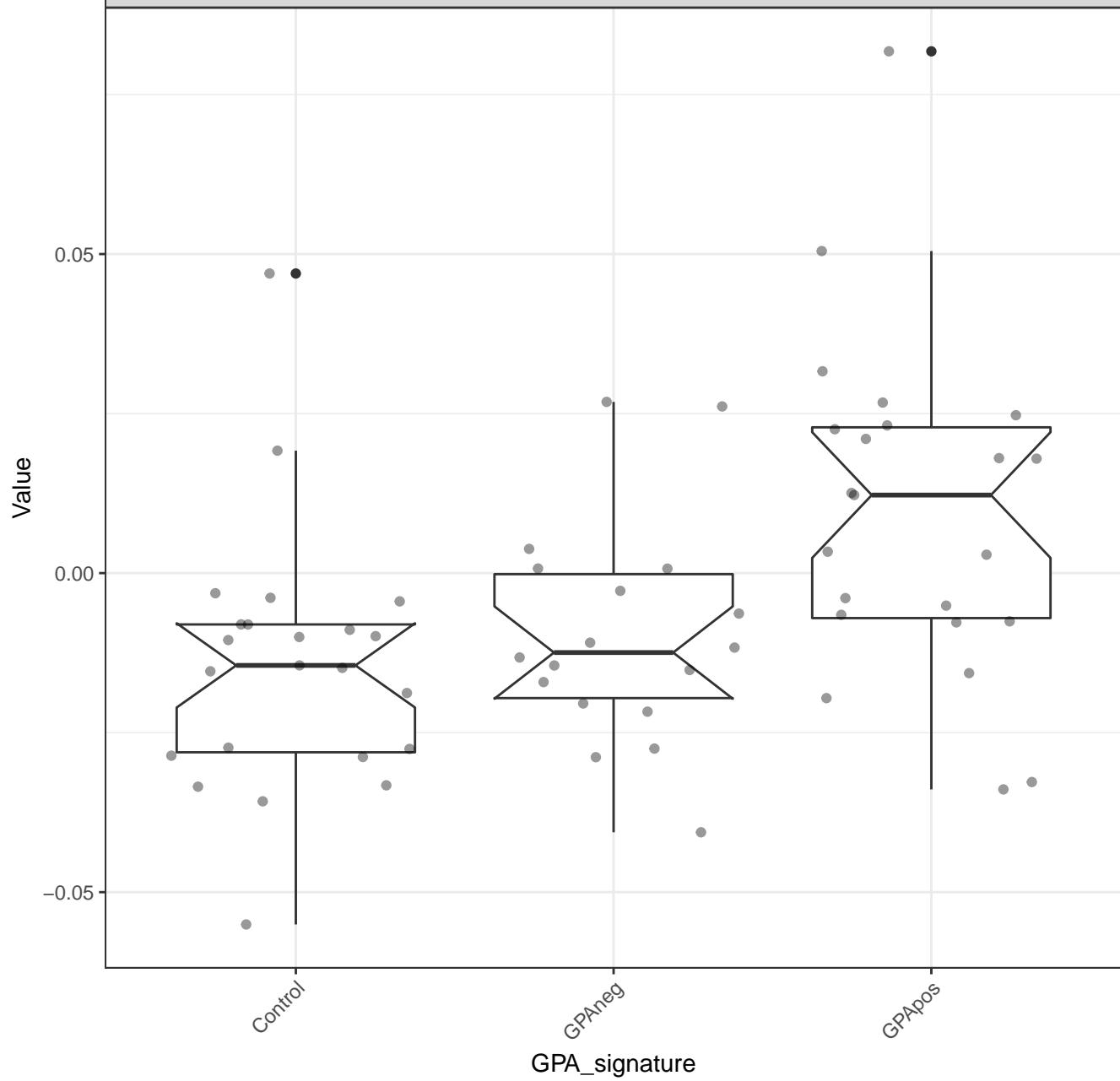
## LV 503



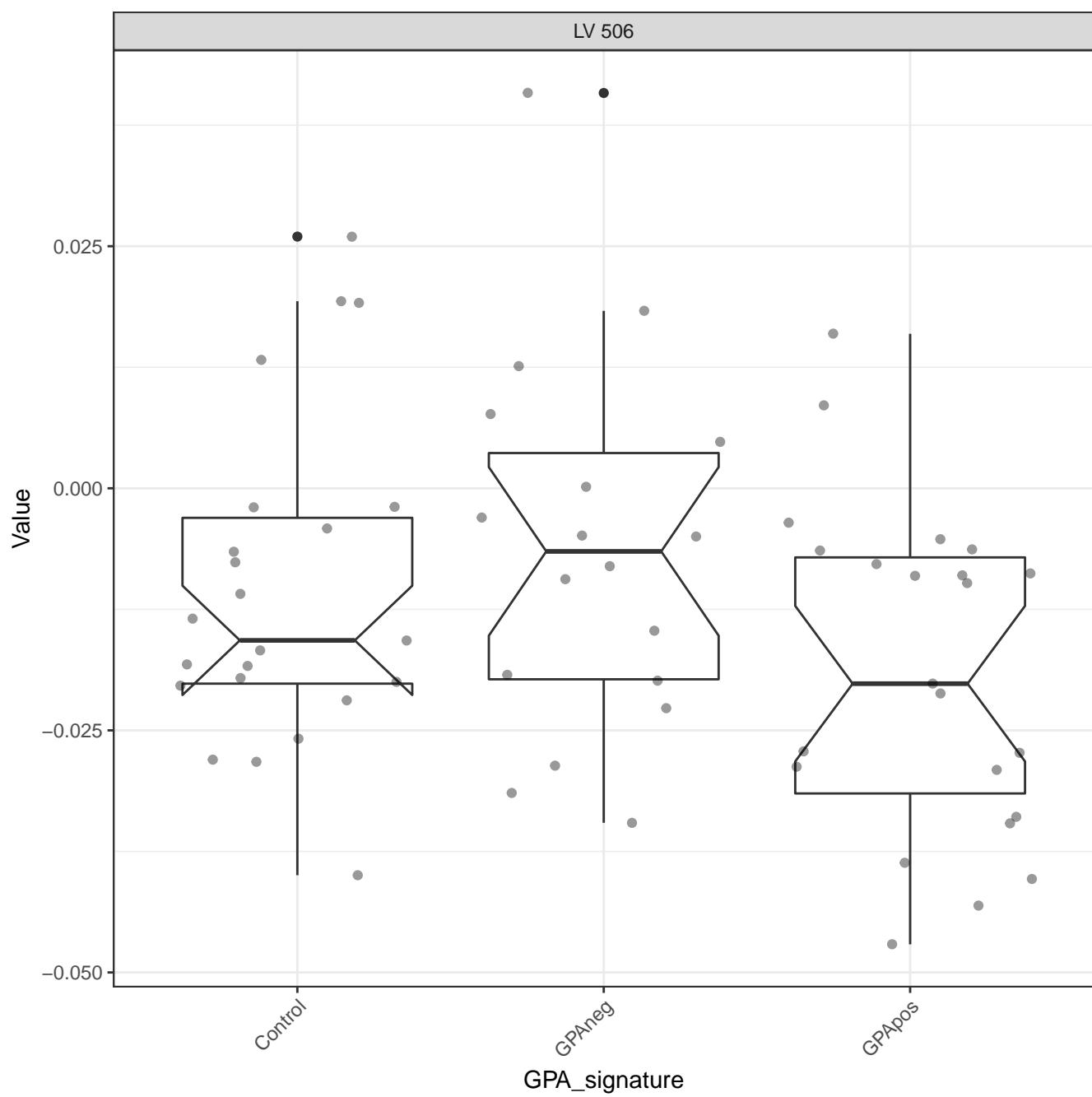
## LV 504



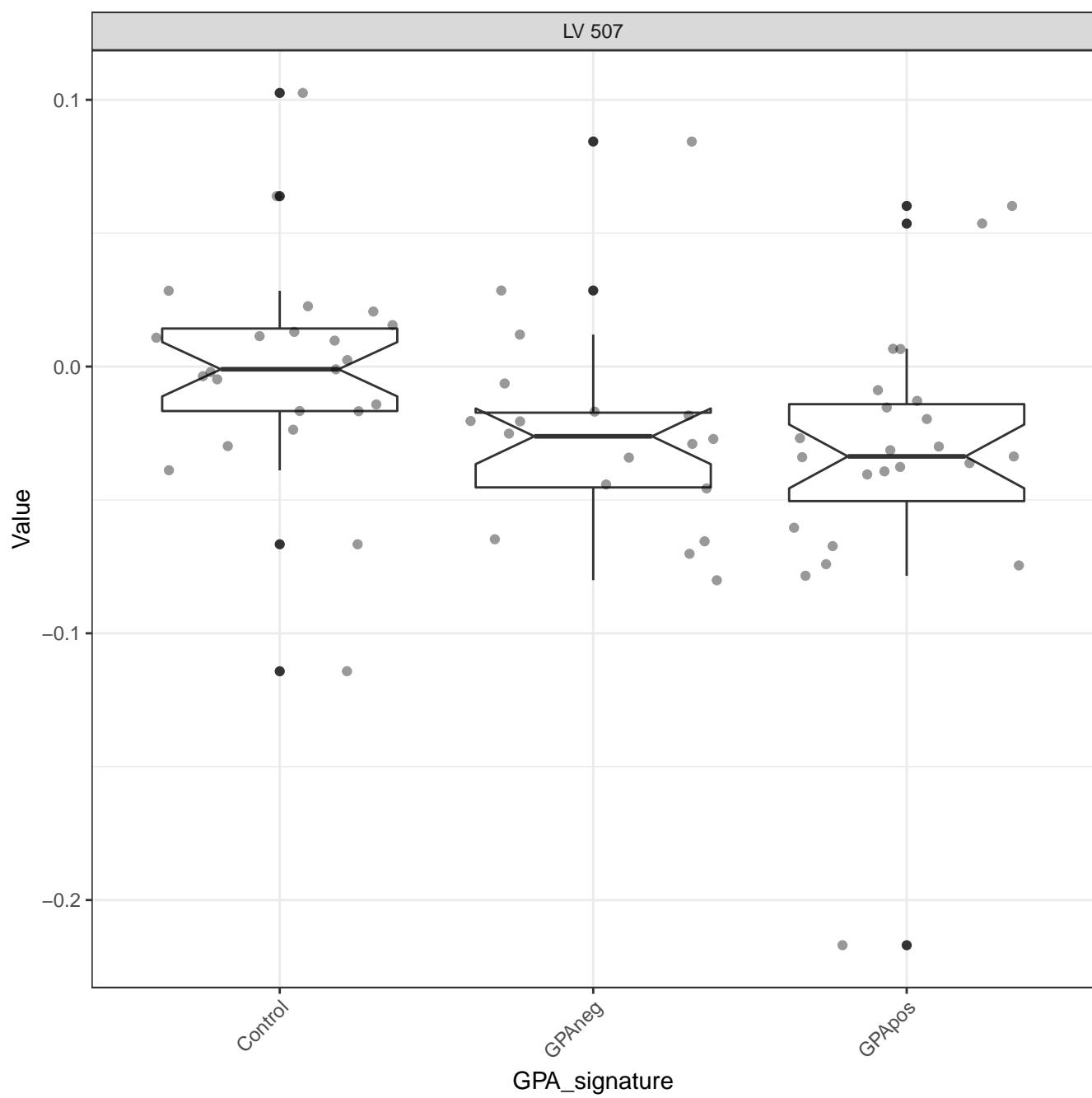
LV 505



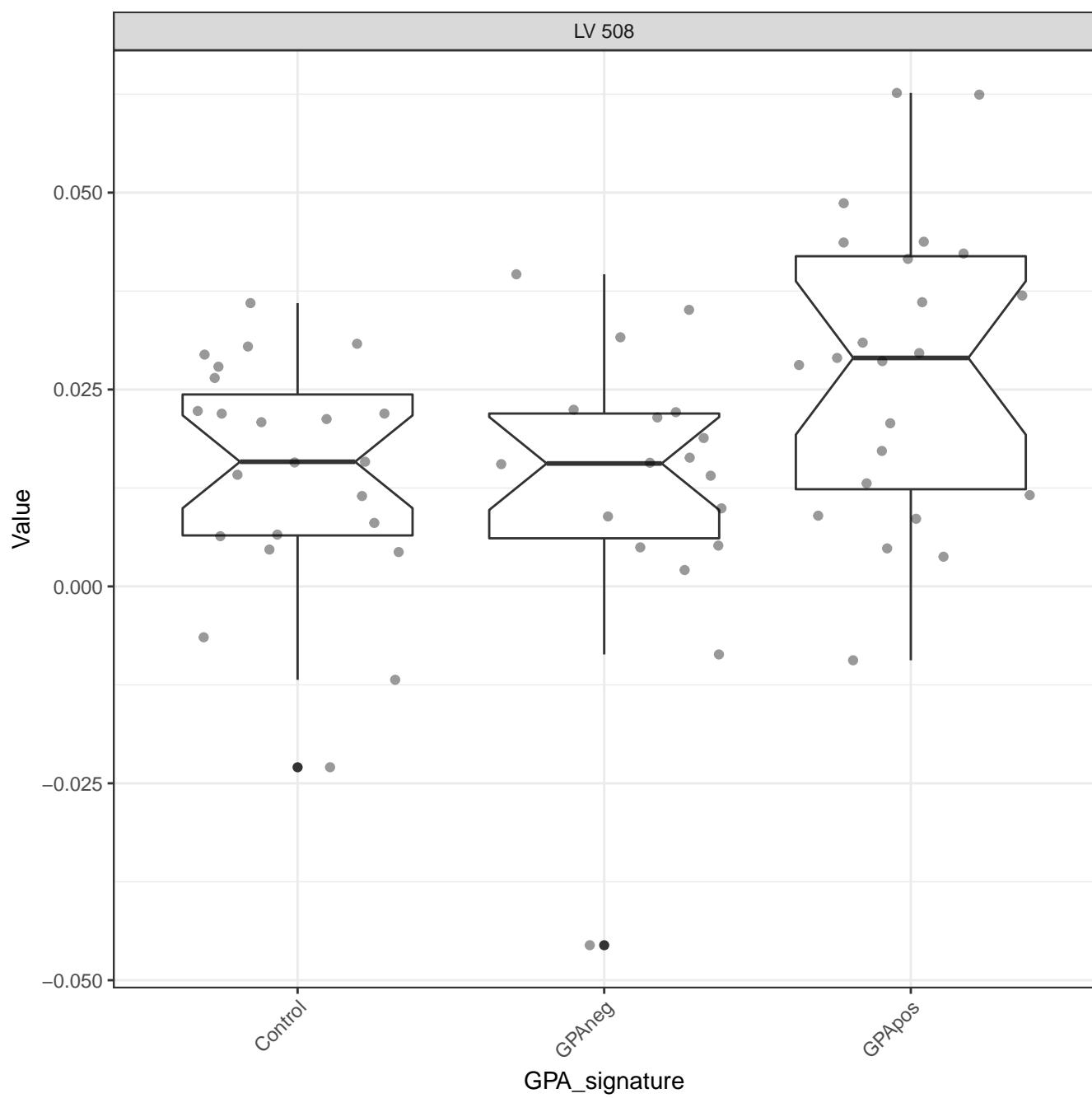
## LV 506



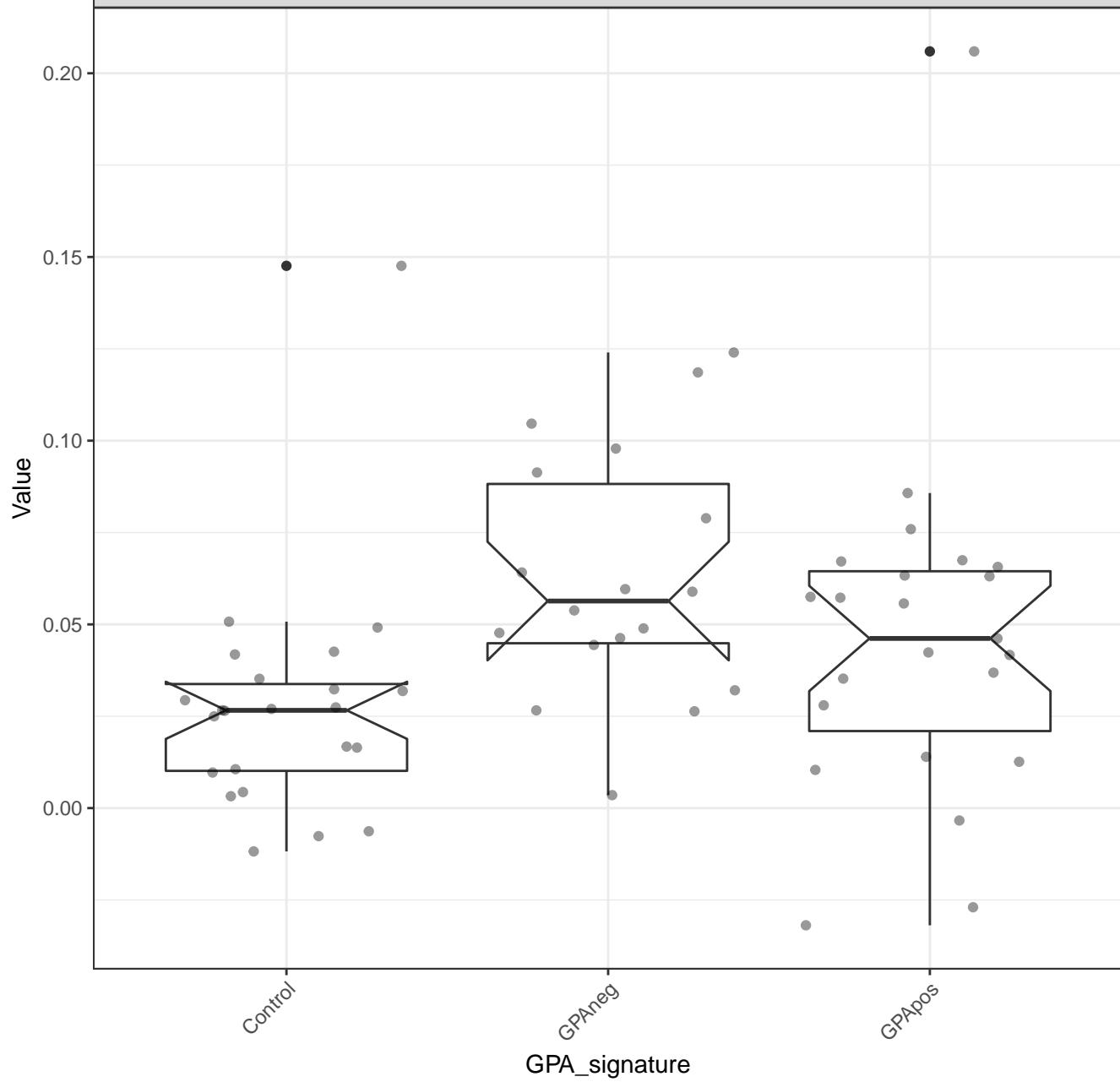
## LV 507



## LV 508

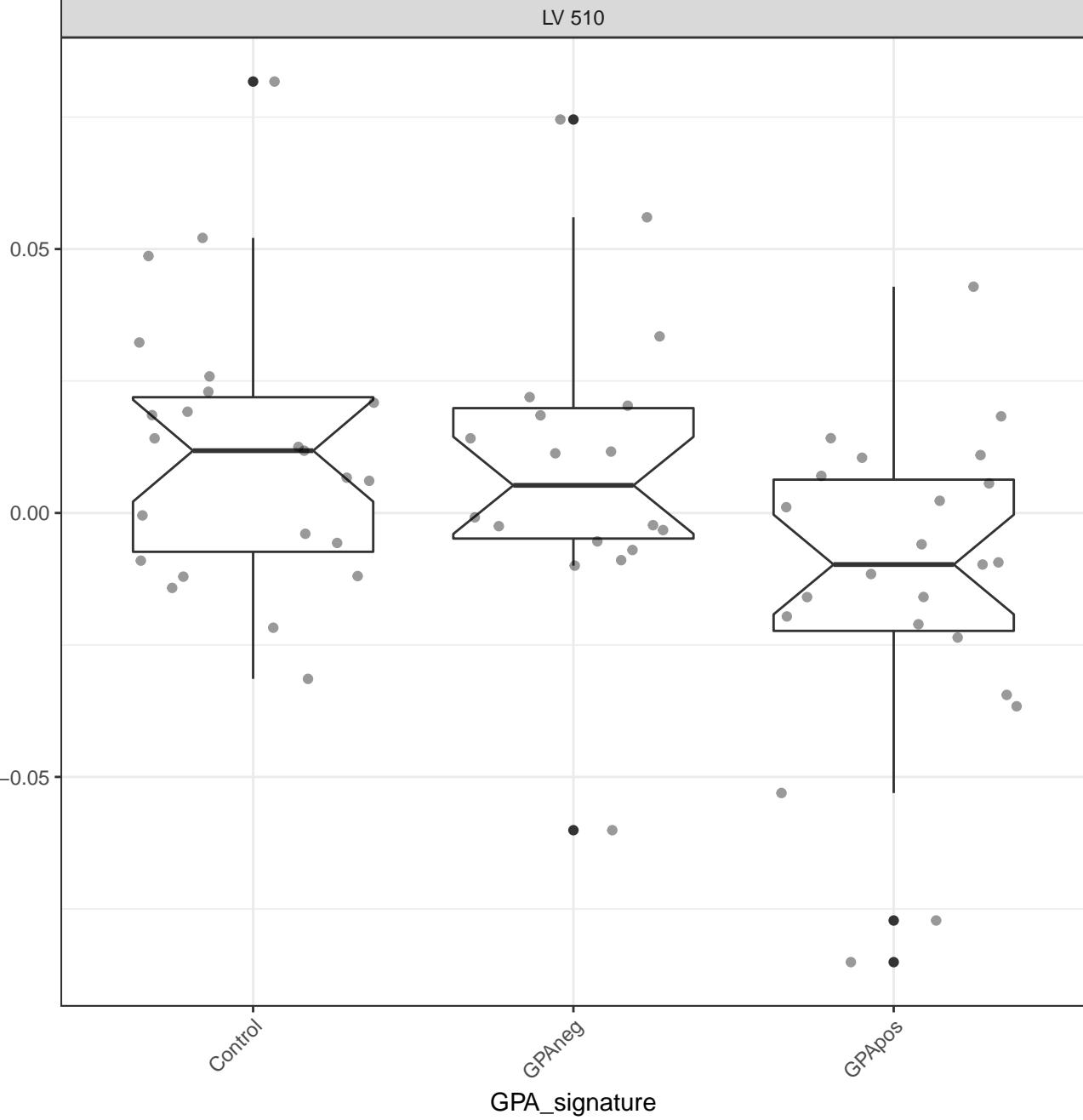


## LV 509

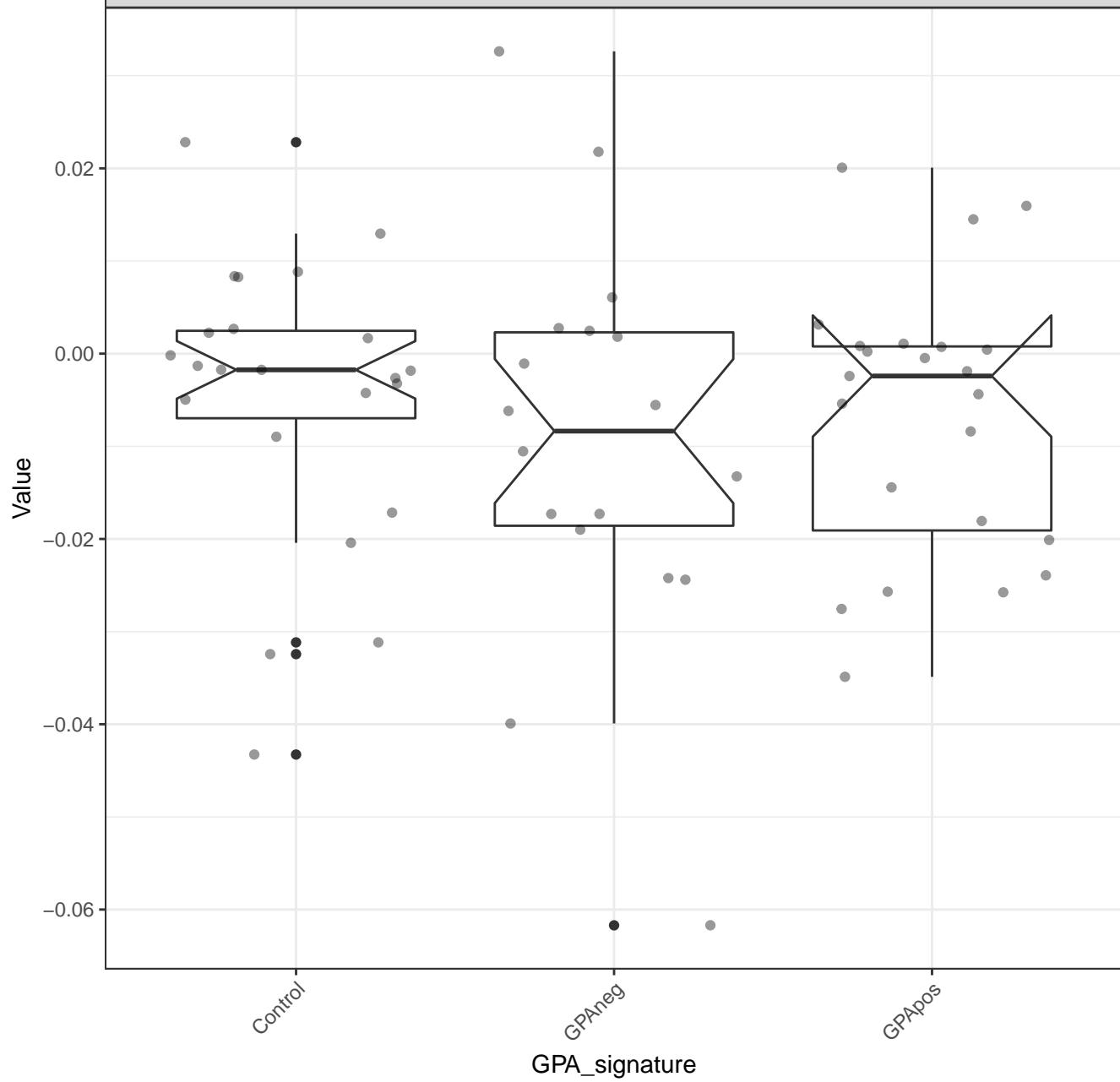


## LV 510

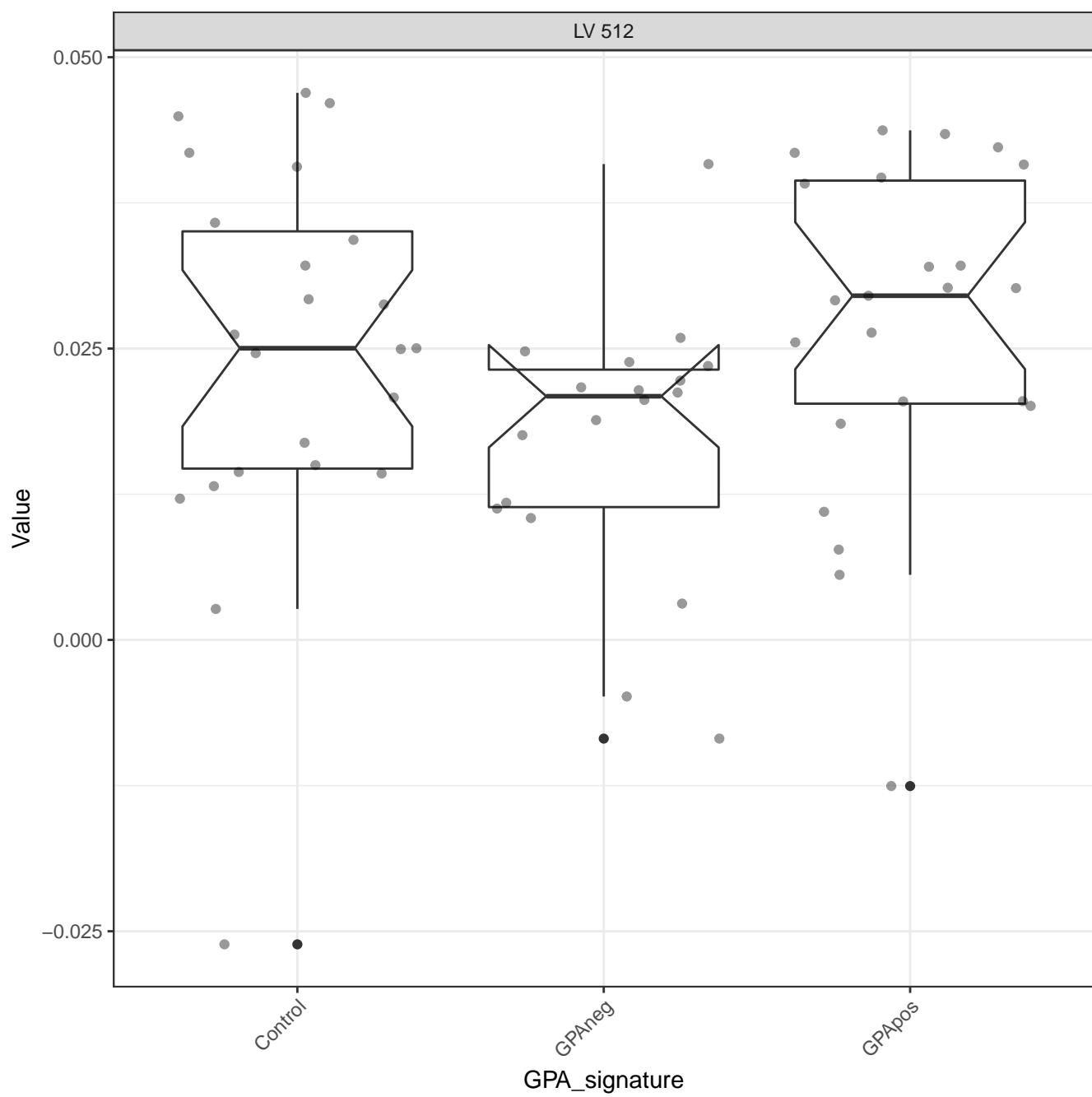
Value



## LV 511



LV 512



LV 513

Value

0.06

0.03

0.00

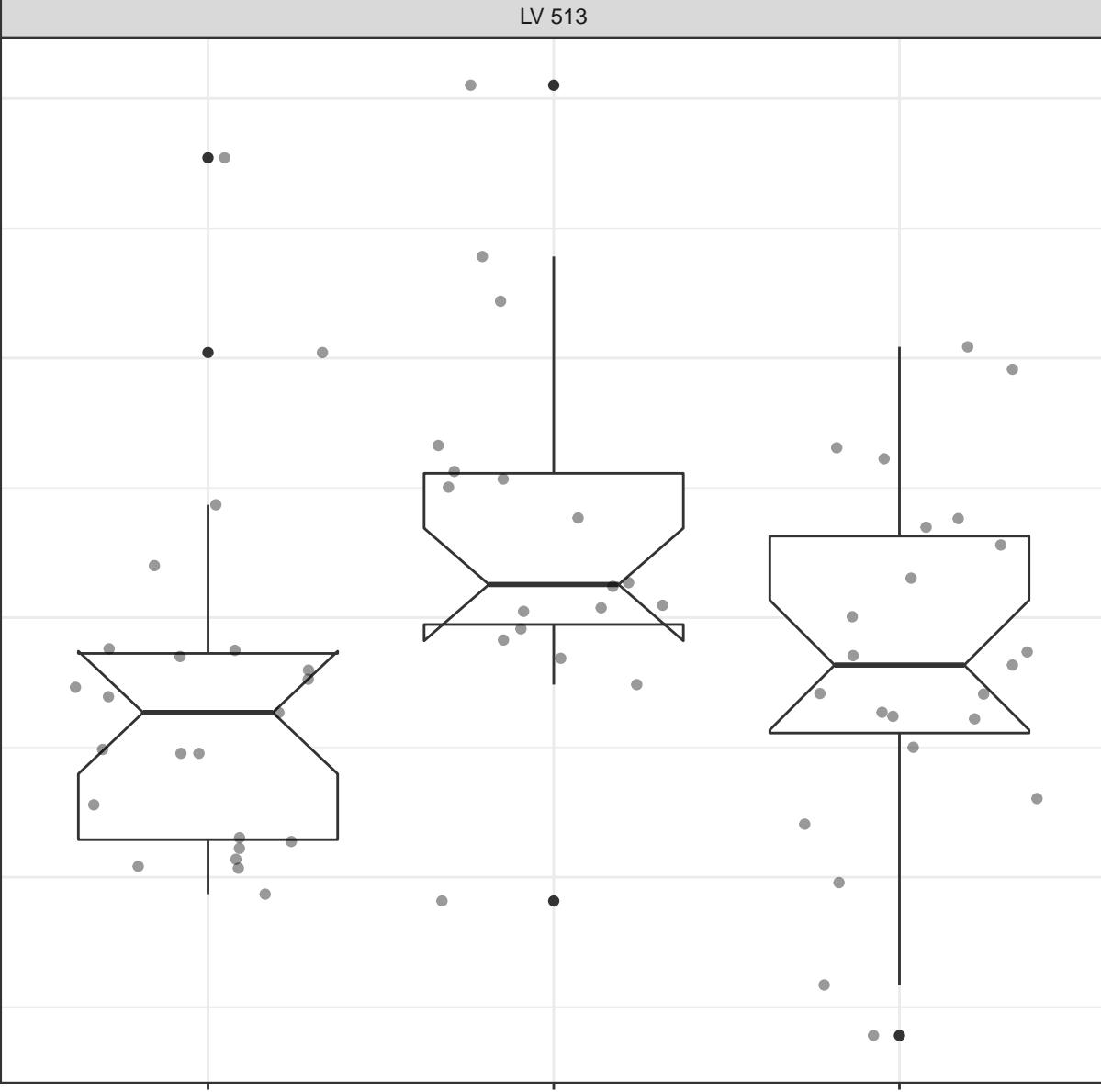
-0.03

Control

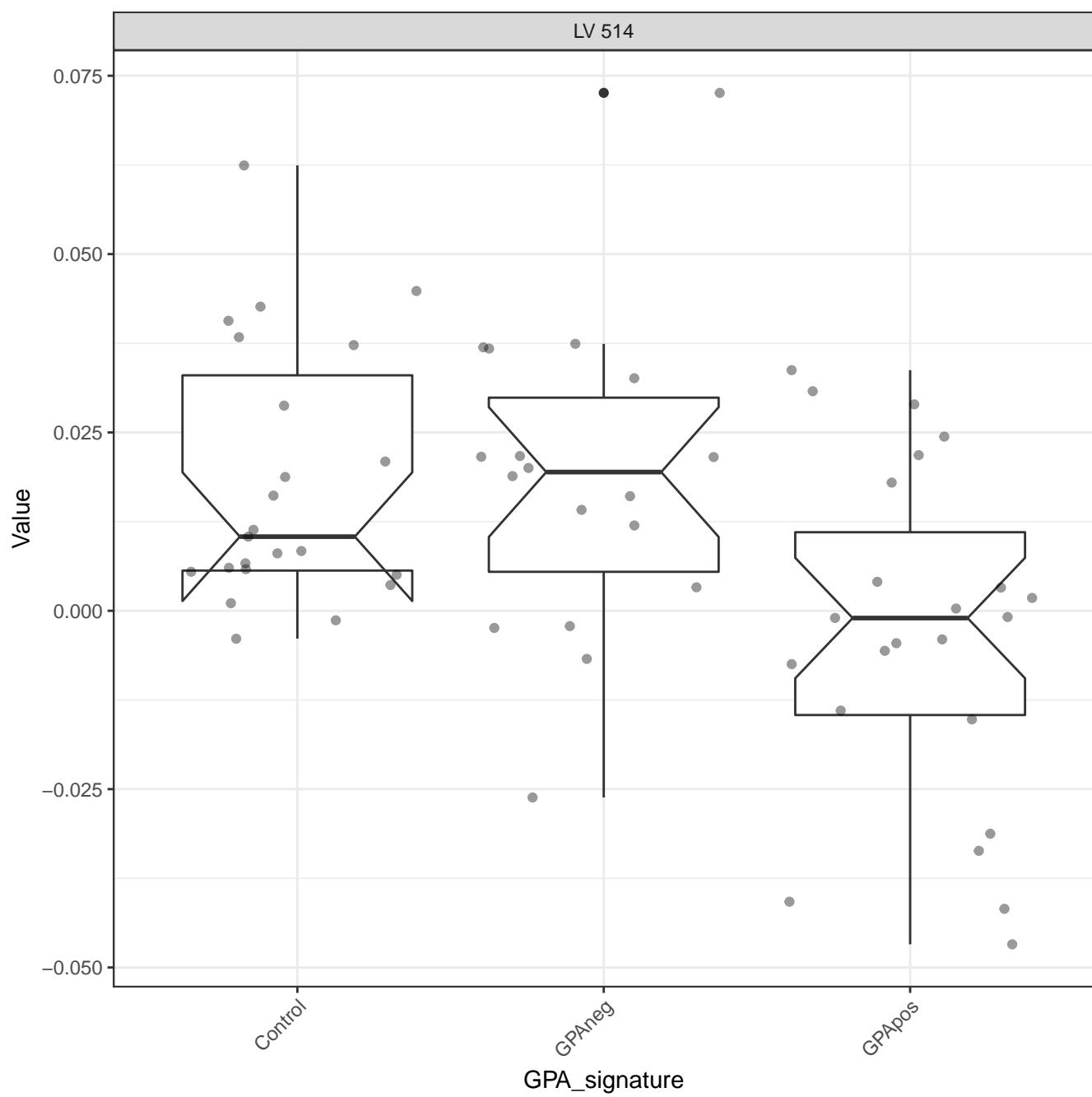
GPA\_signature

GPAneg

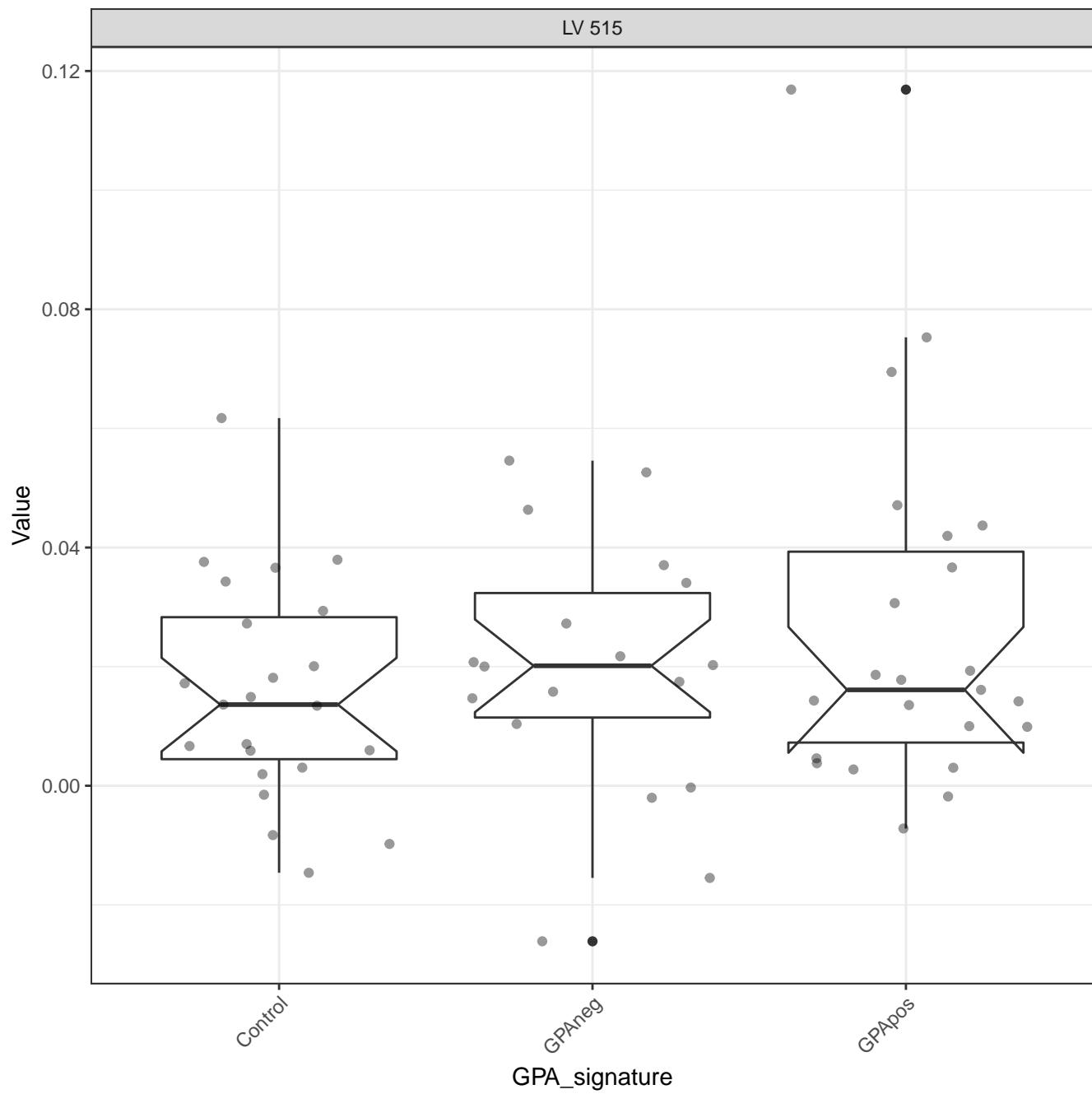
GPApos



## LV 514



## LV 515



## 516,PID\_TCR\_PATHWAY

Value

0.2

0.0

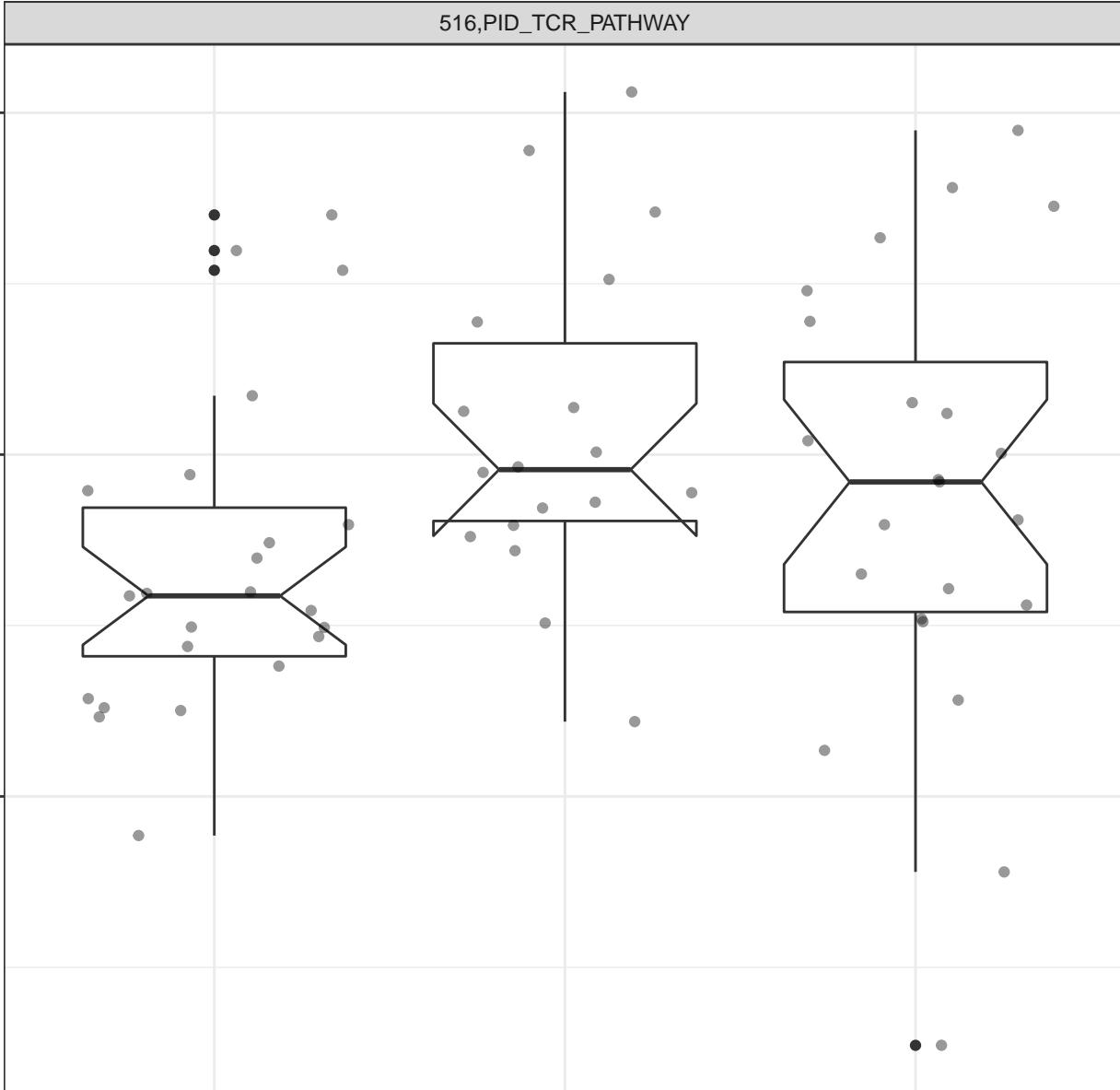
-0.2

Control

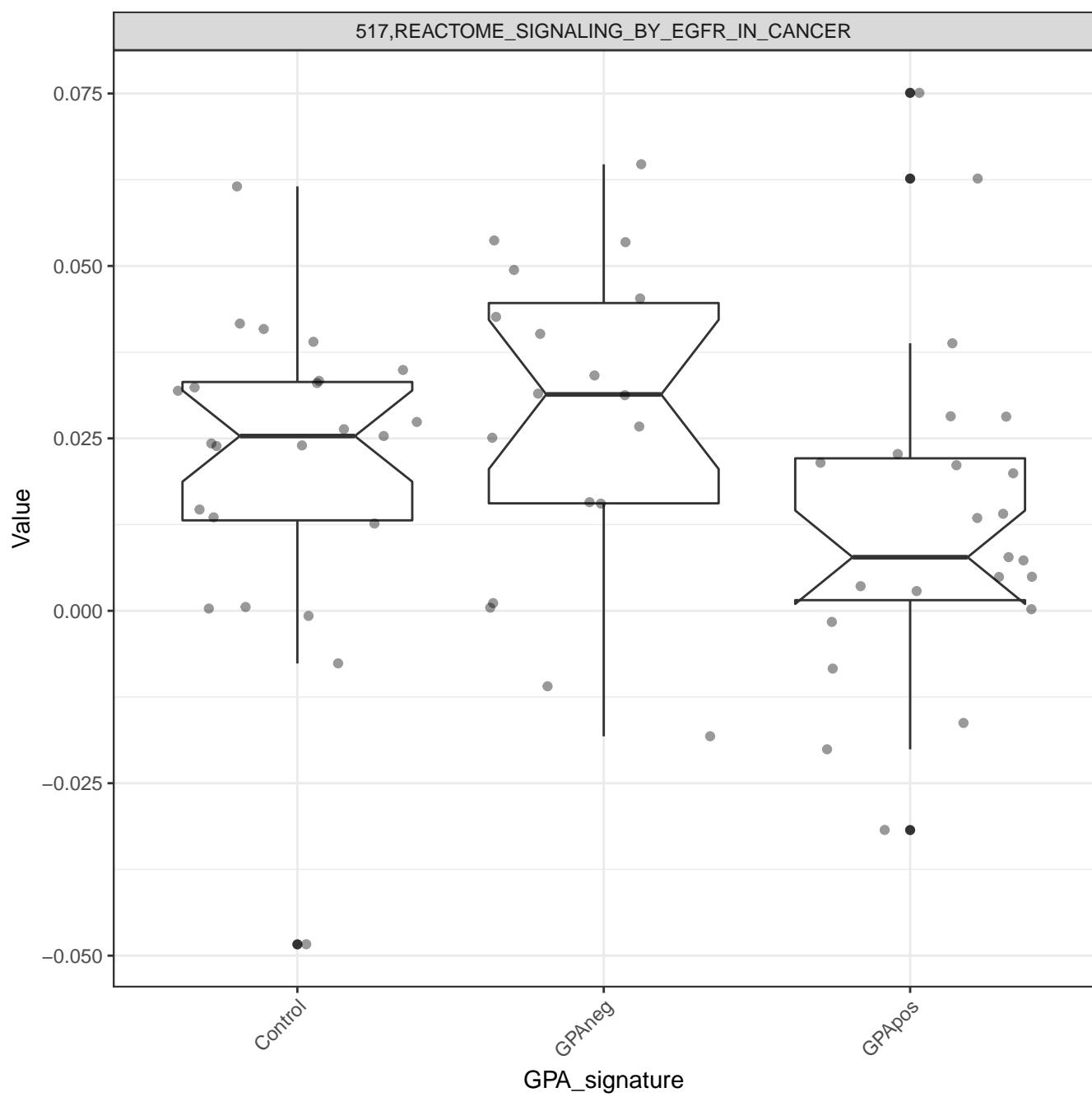
GPA\_signature

GPAneg

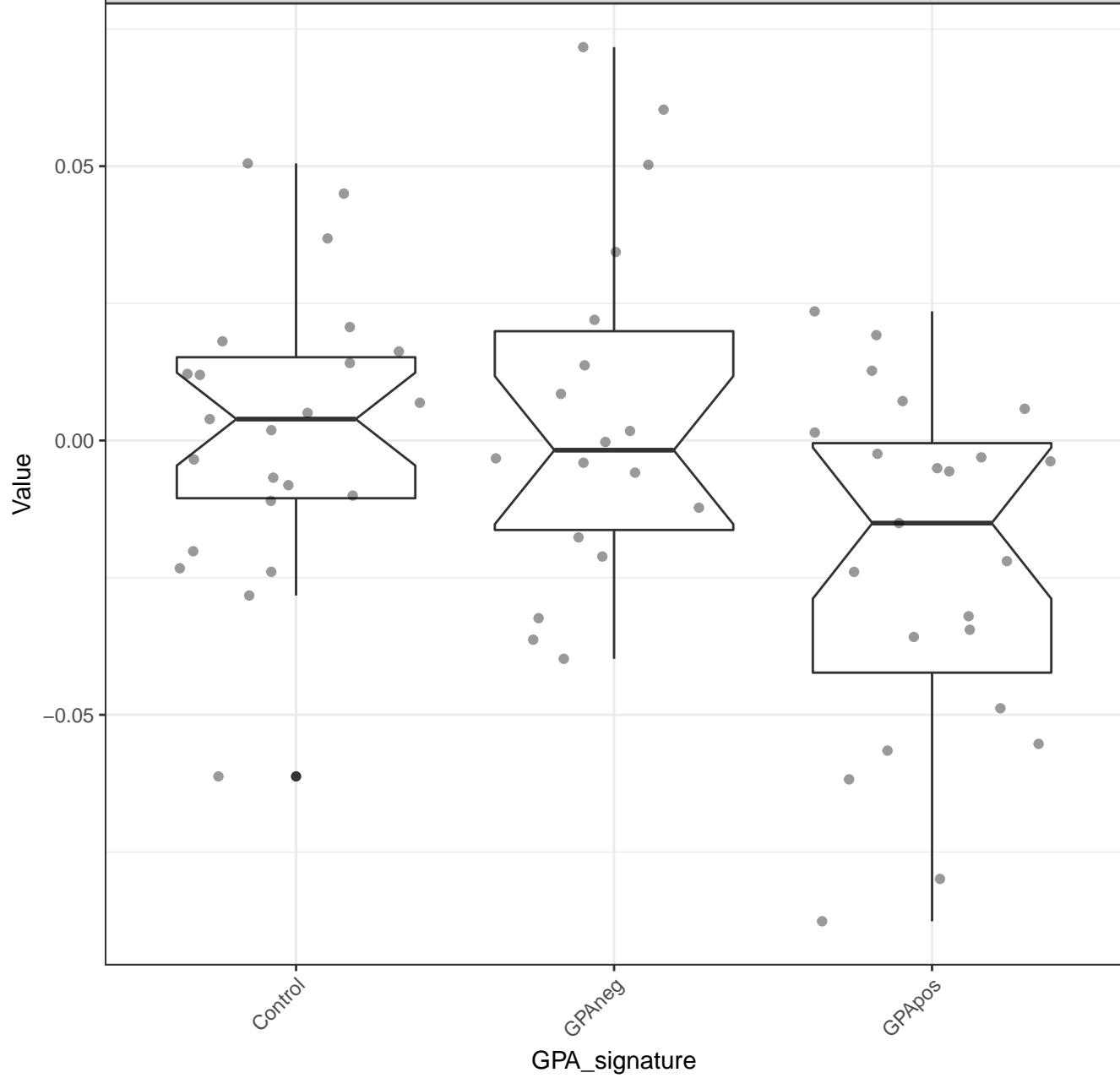
GPApos

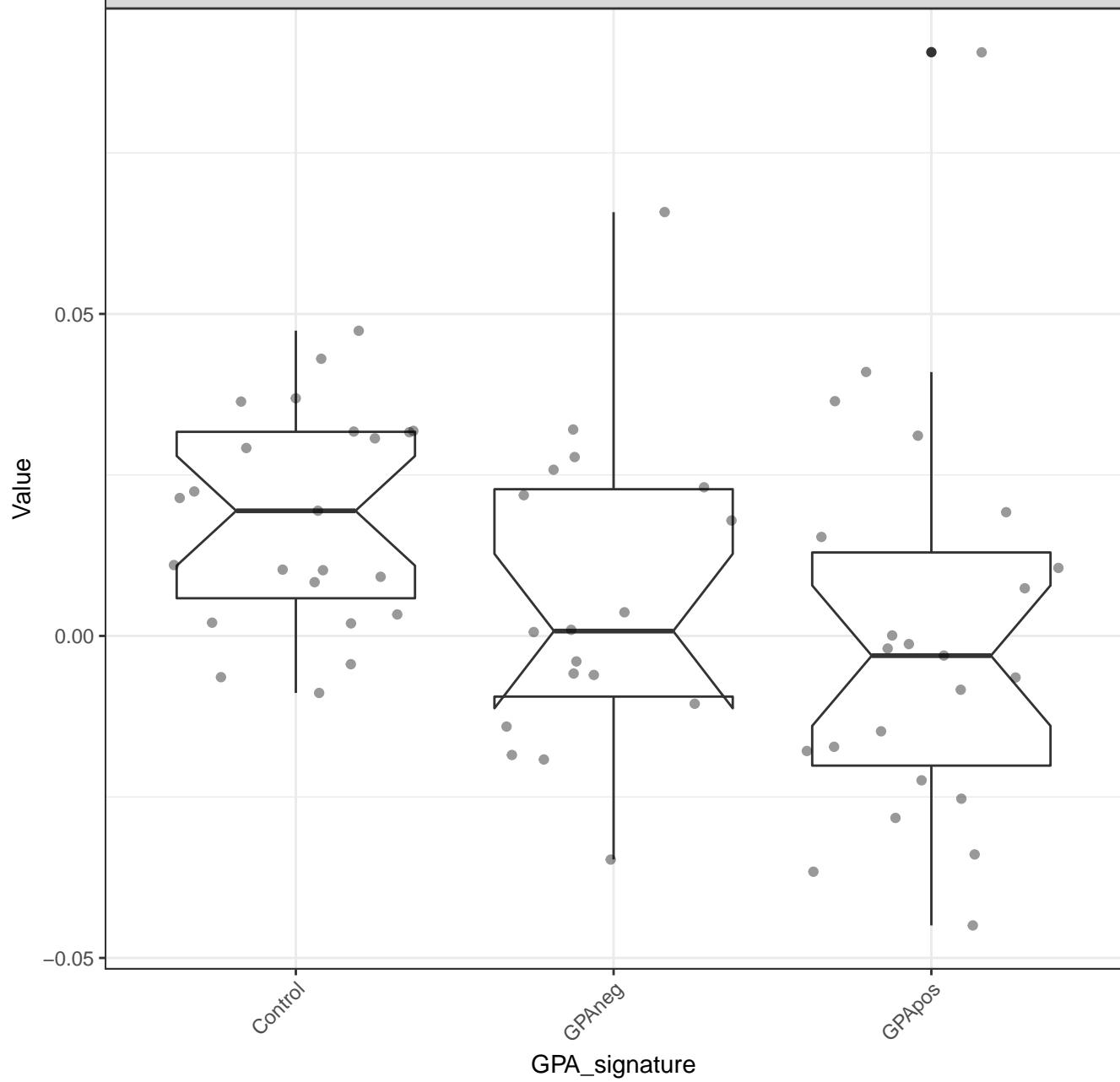


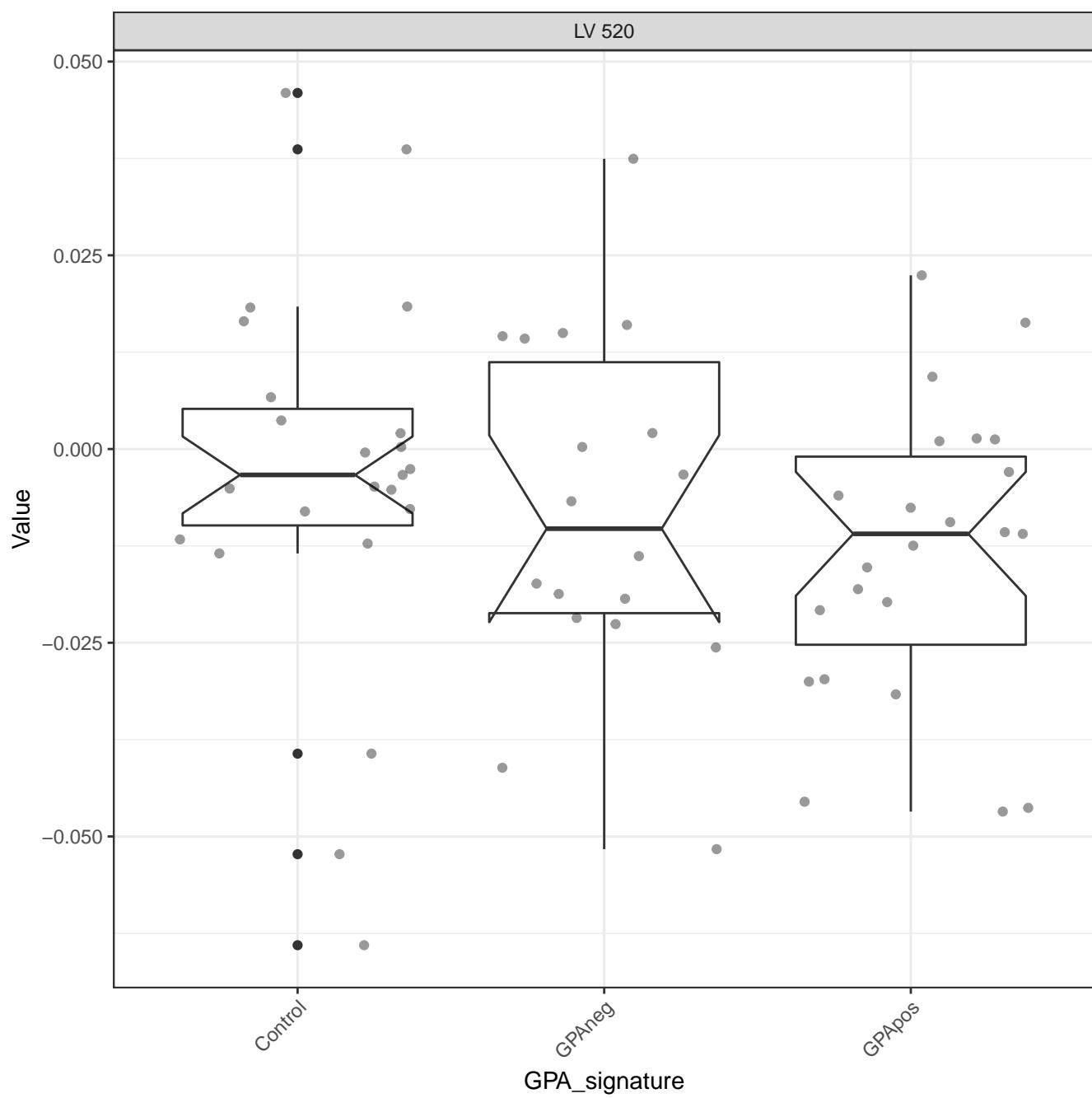
## 517,REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER

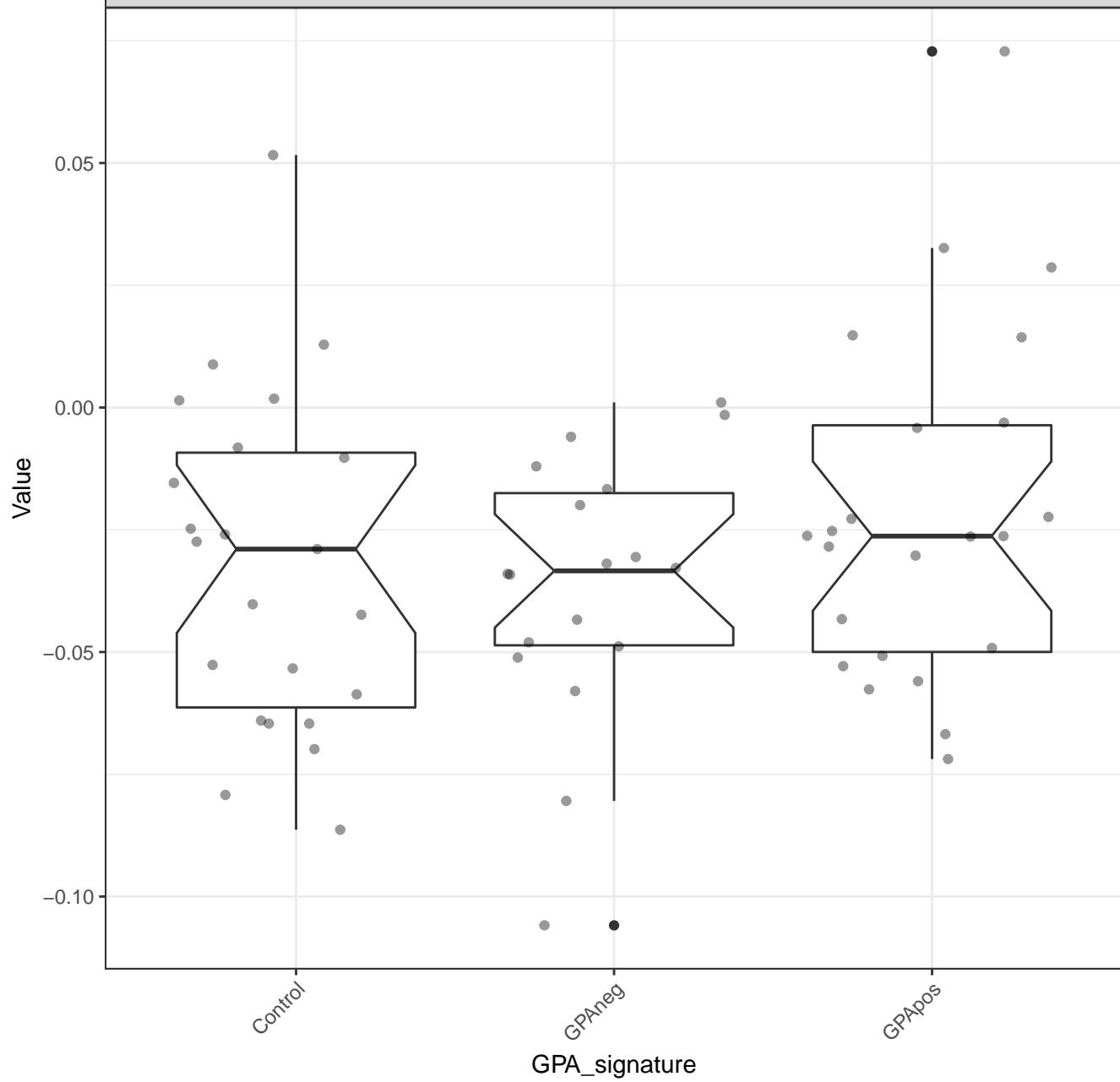


## 518,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY









Value

0.05

0.00

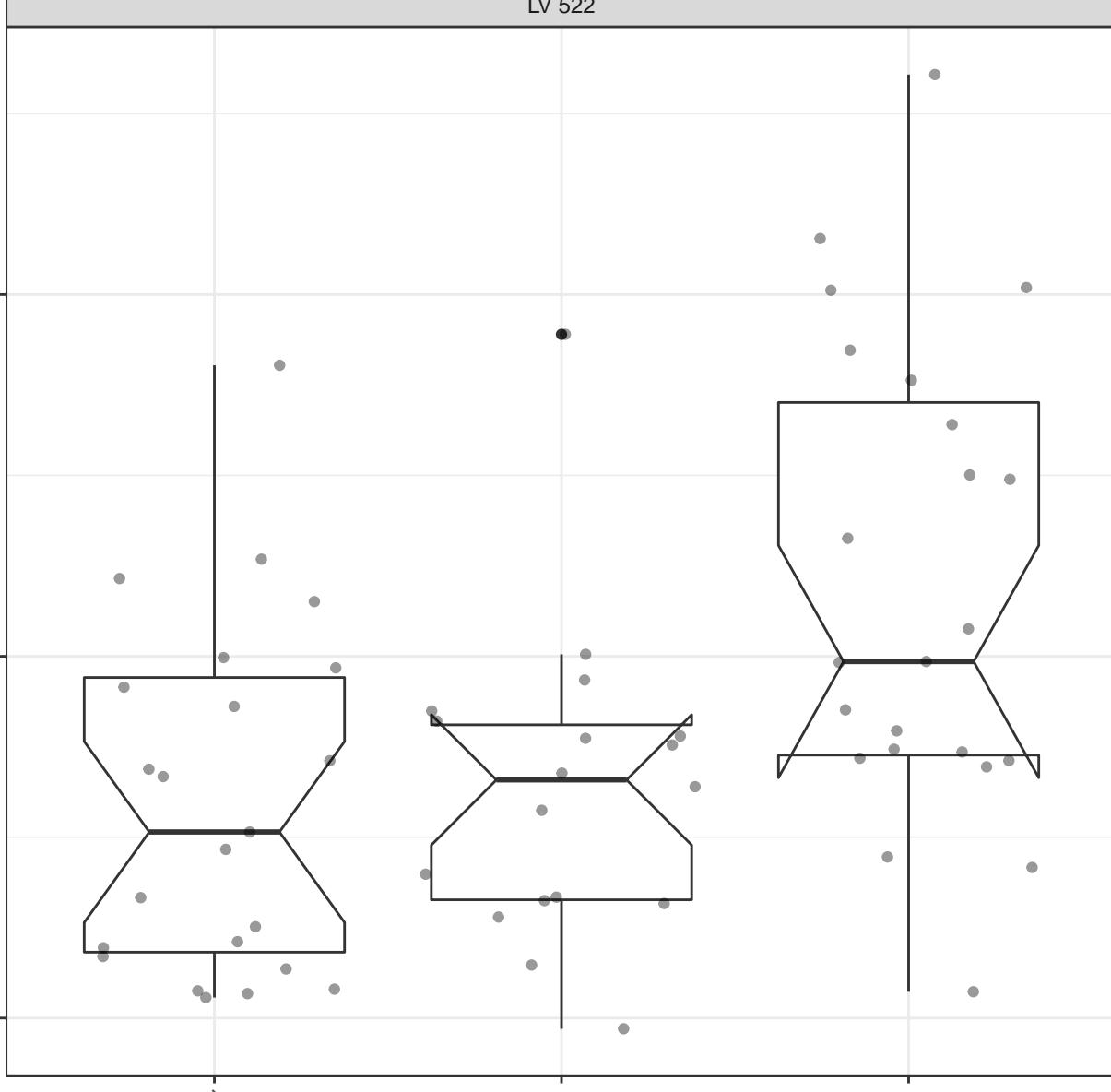
-0.05

Control

GPA\_signature

GPAneg

GPApos



LV 523

Value

0.05

0.00

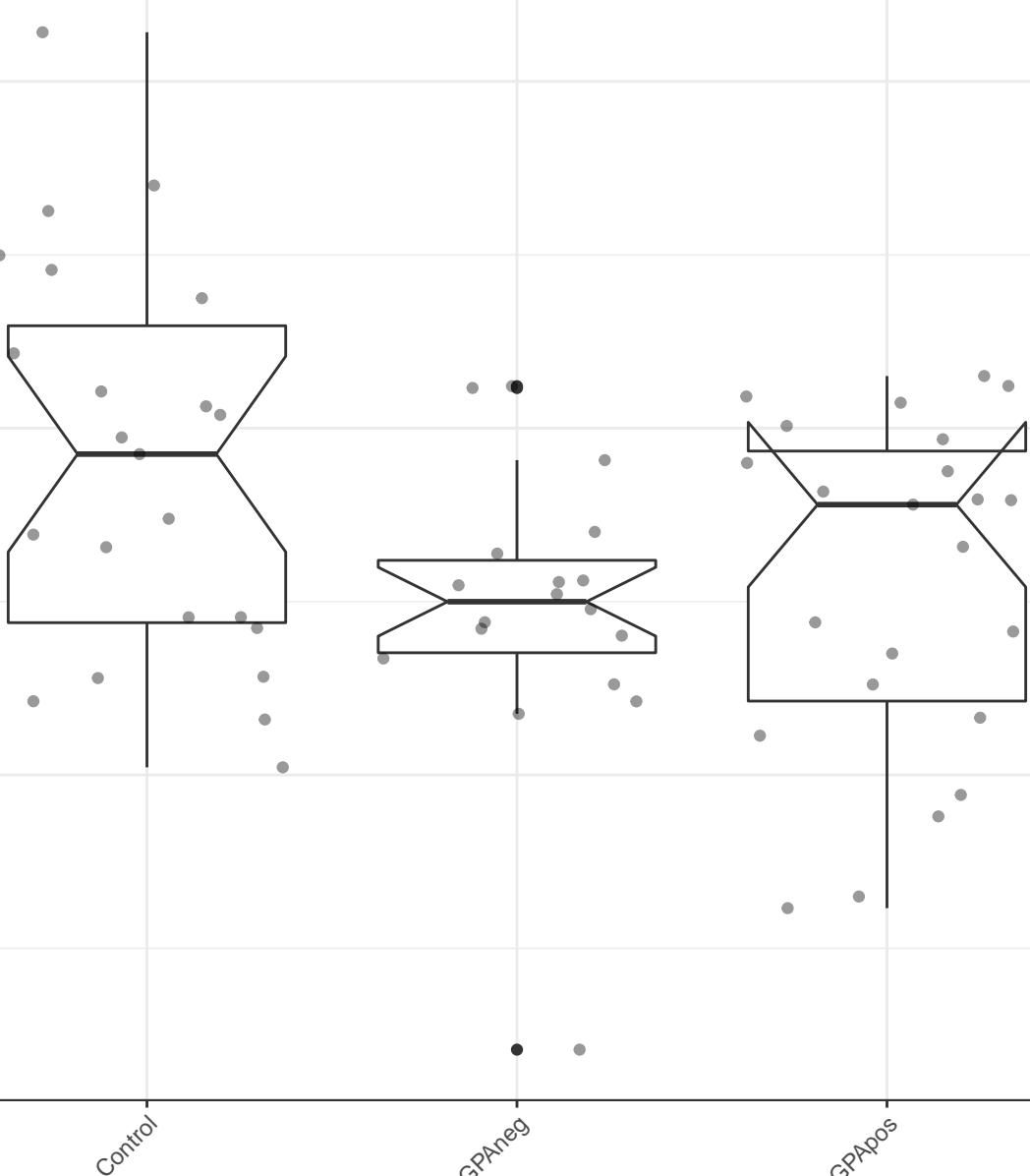
-0.05

Control

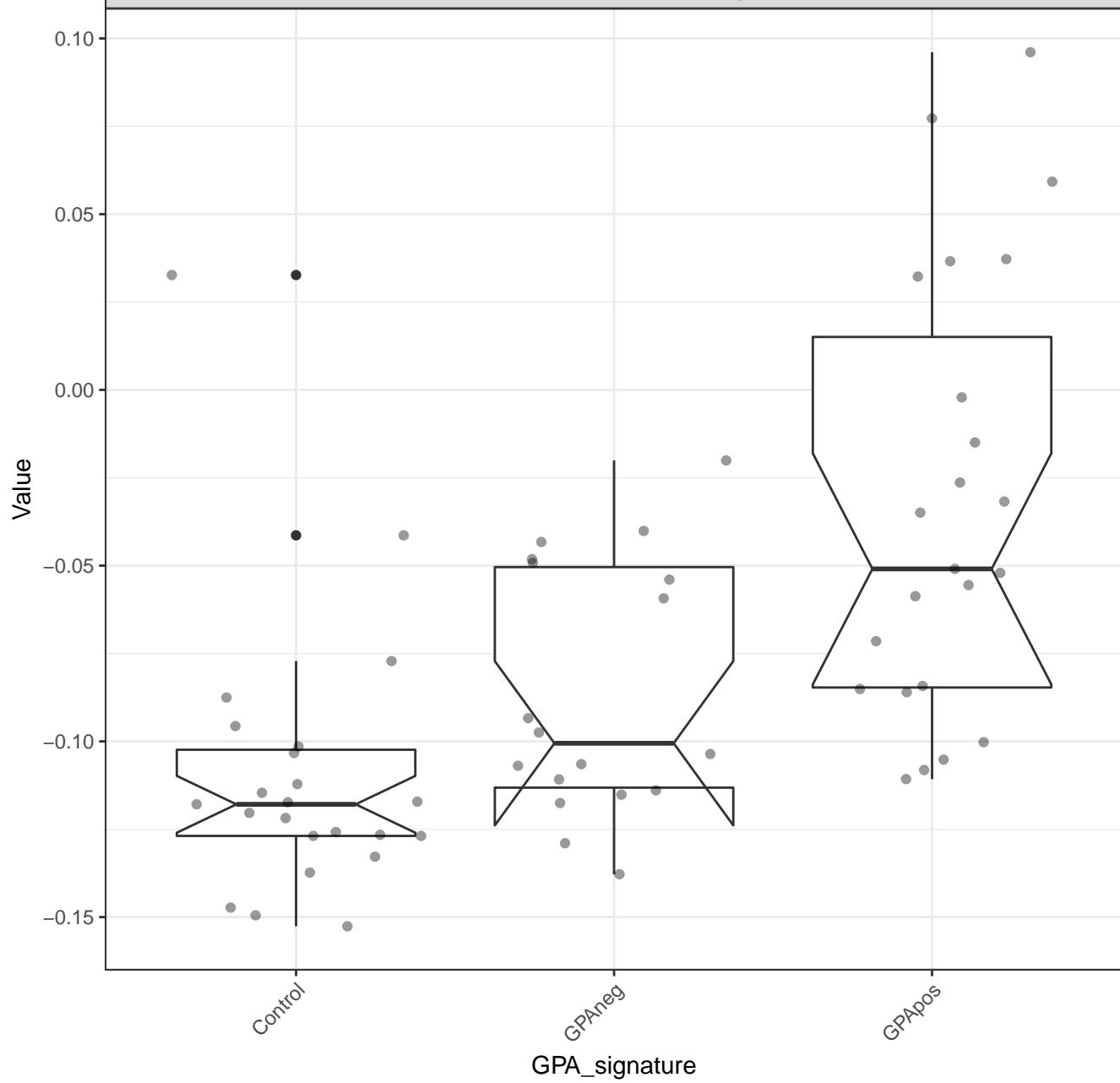
GPA\_signature

GPAneg

GPApos



## 524,IRIS\_Neutrophil–Resting



LV 525

Value

0.05

Control

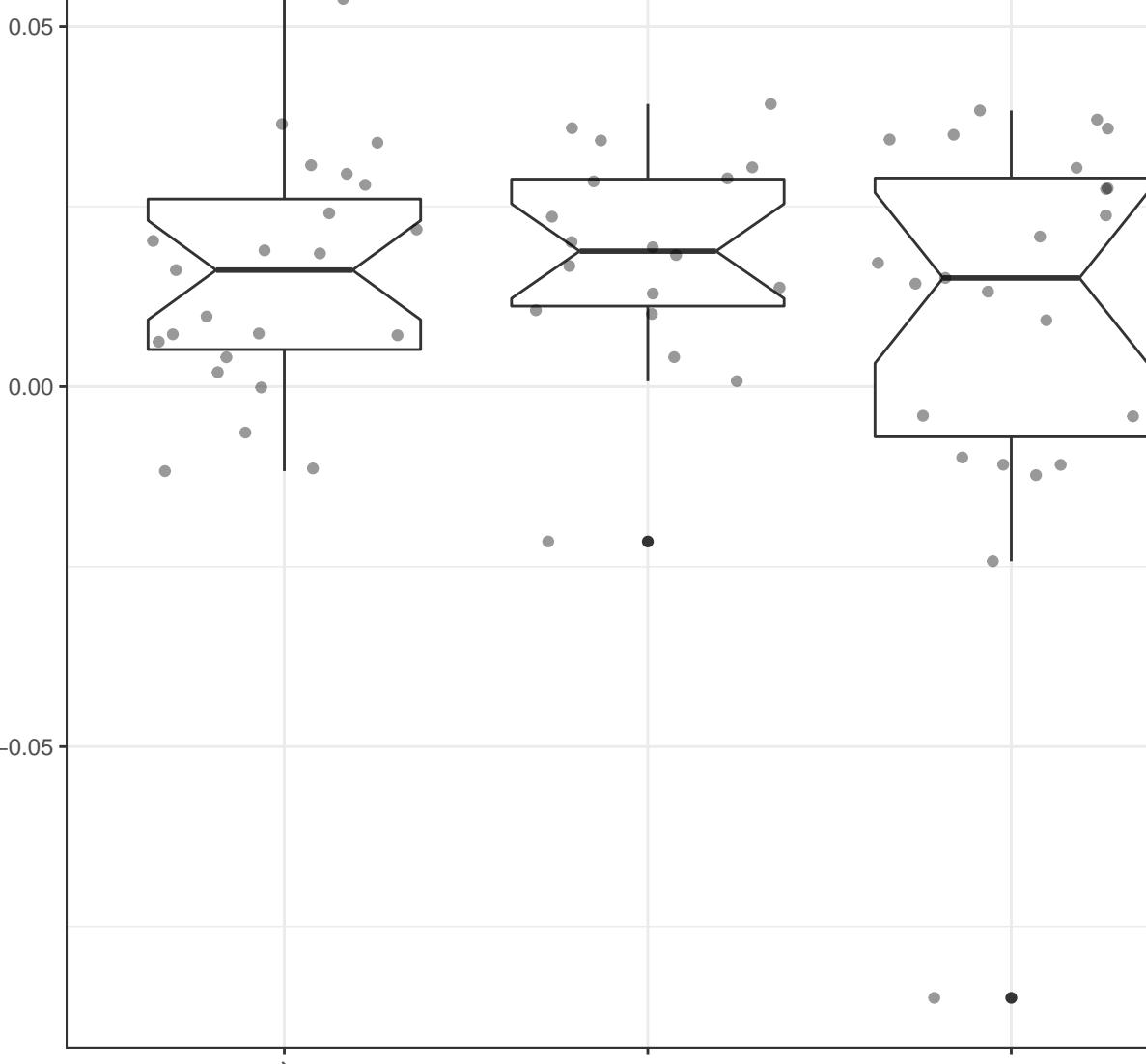
0.00

GPA\_signature

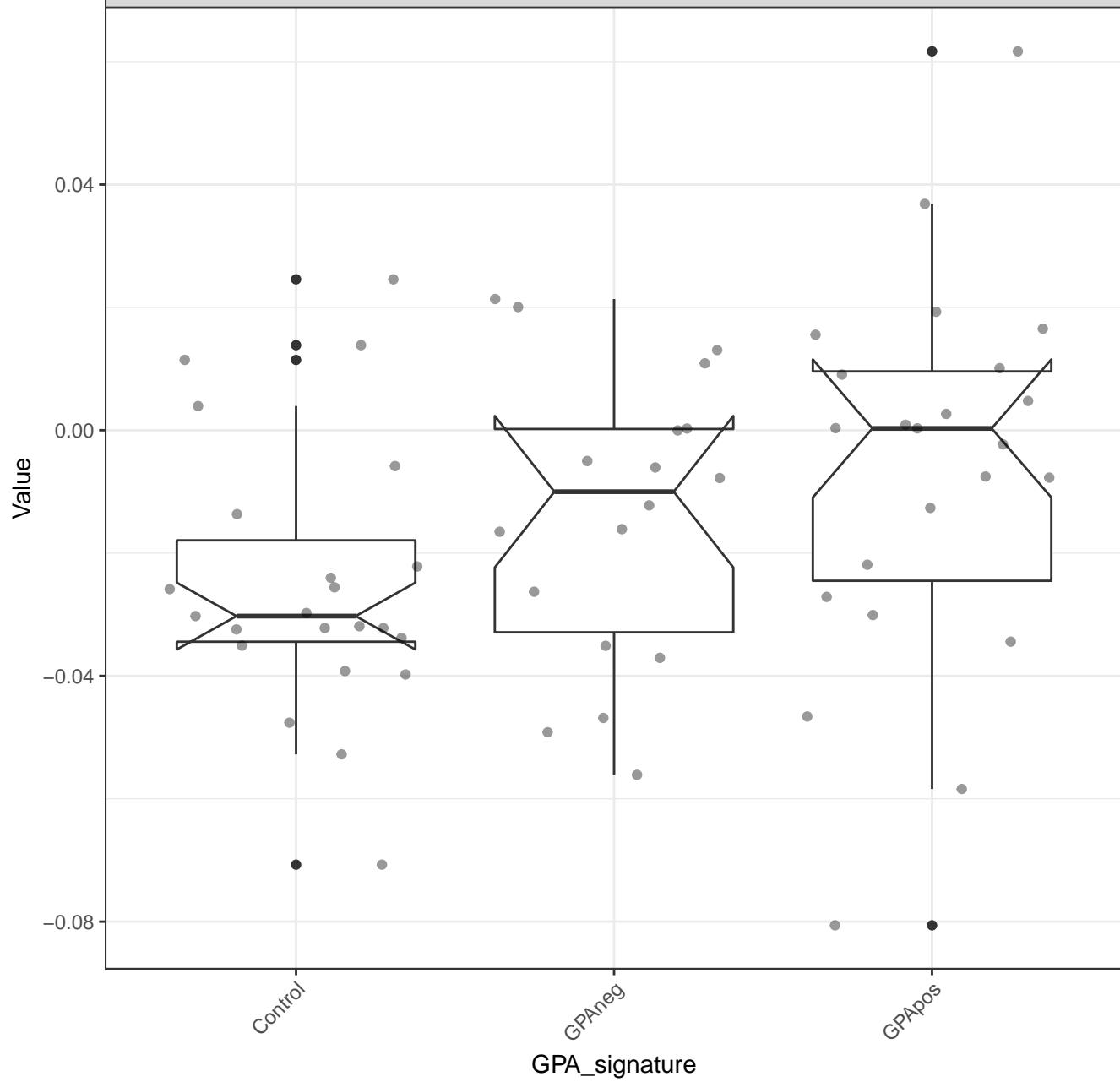
-0.05

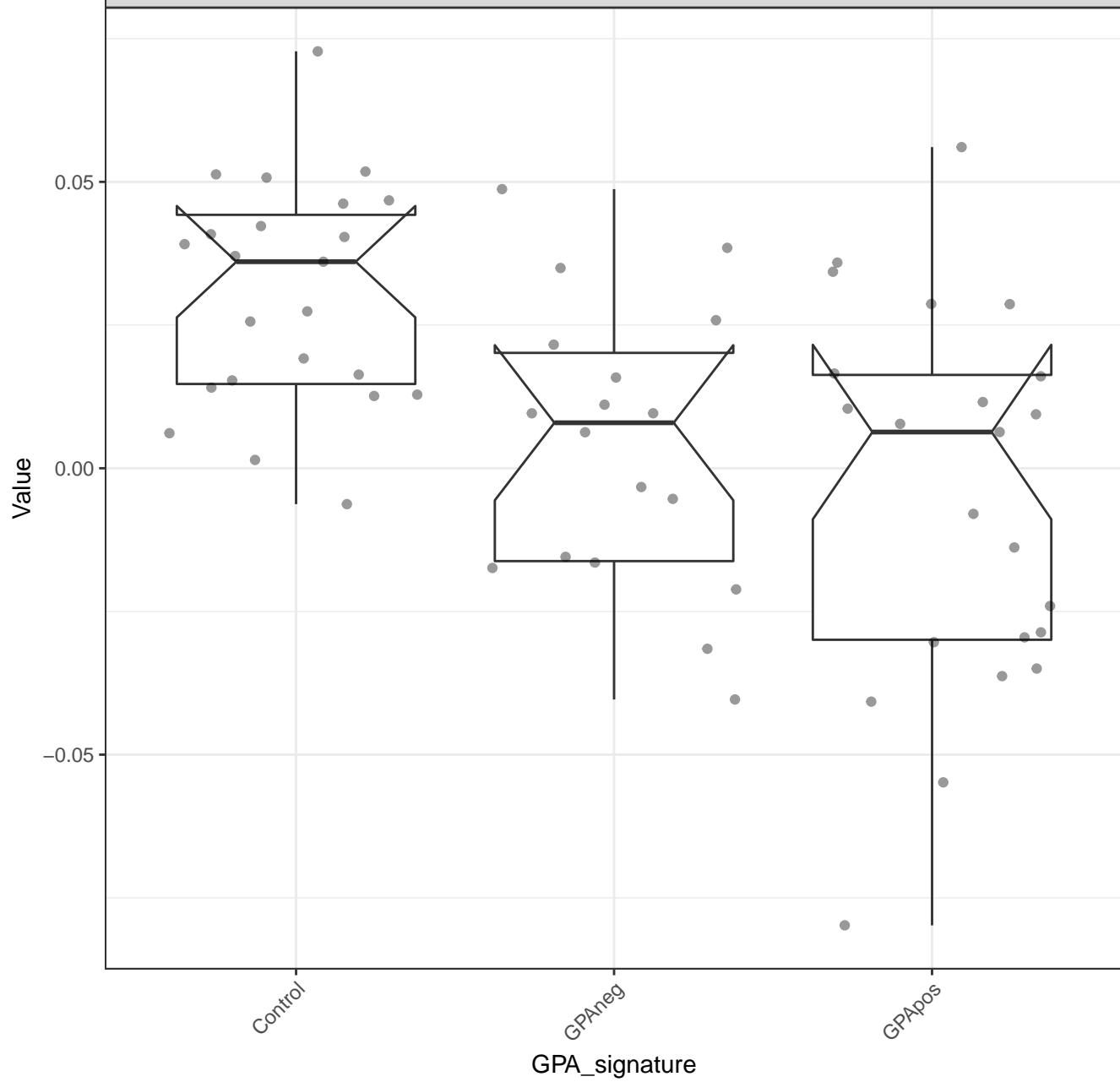
GPAneg

GPAPos

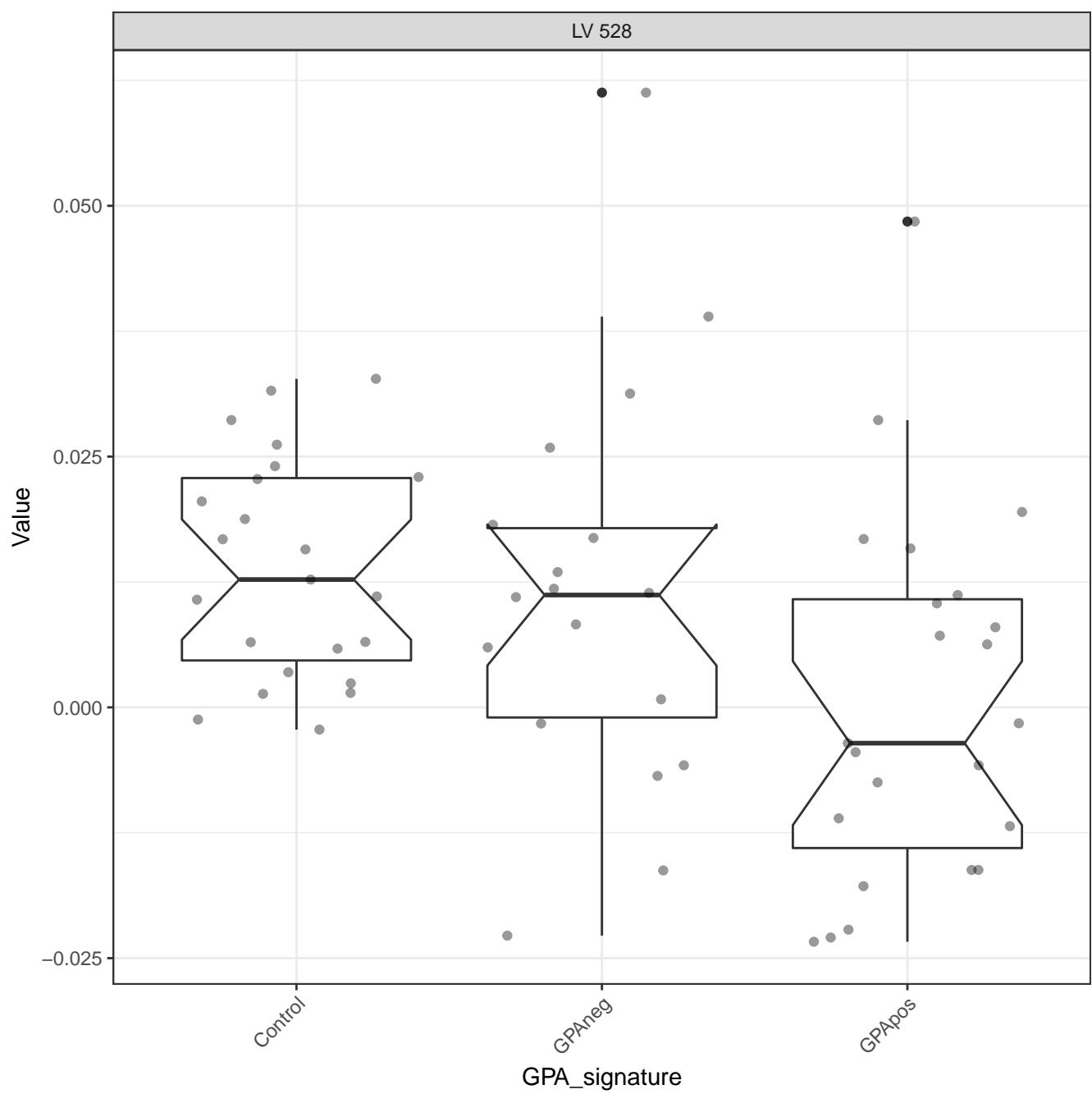


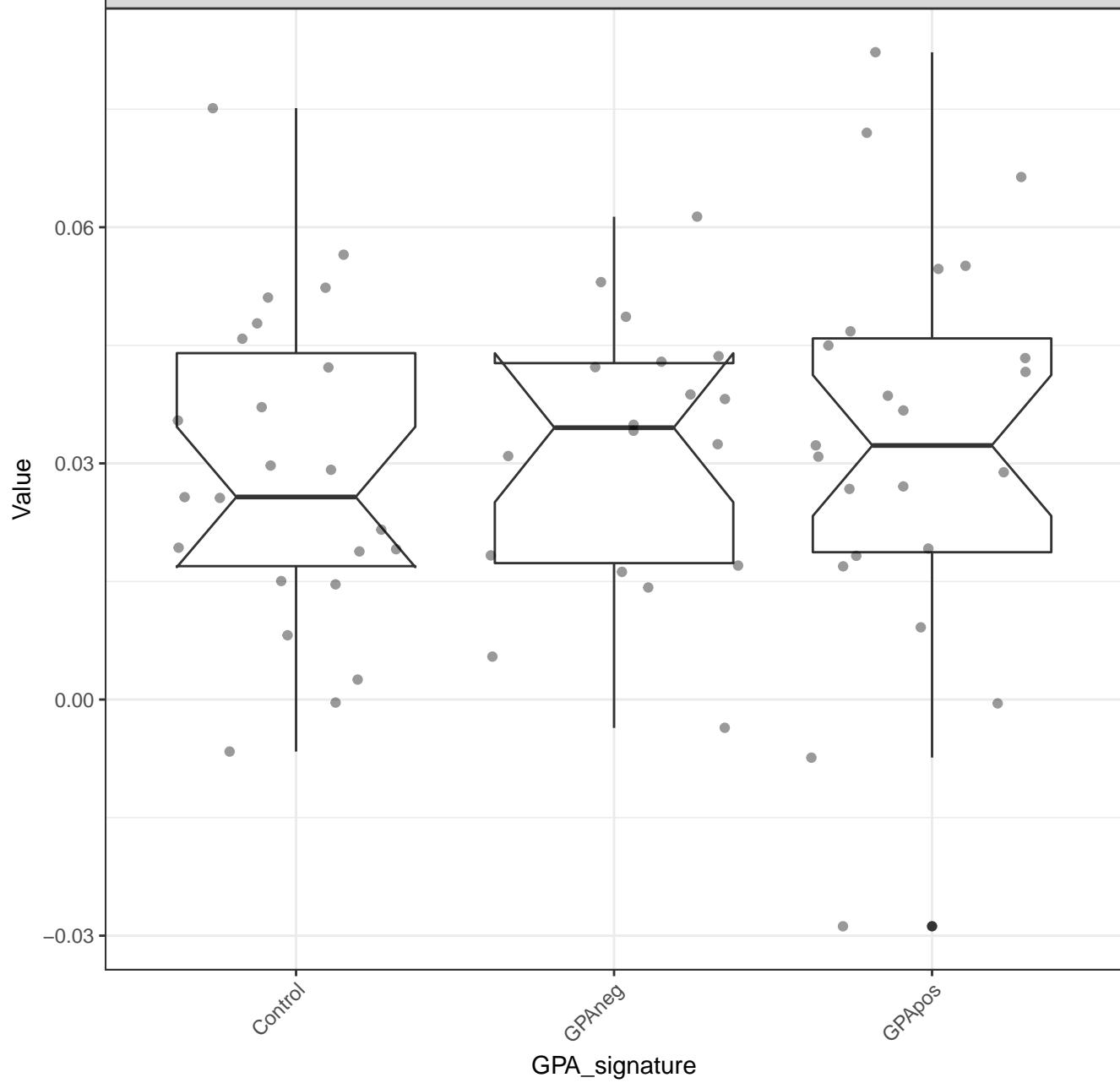
## LV 526

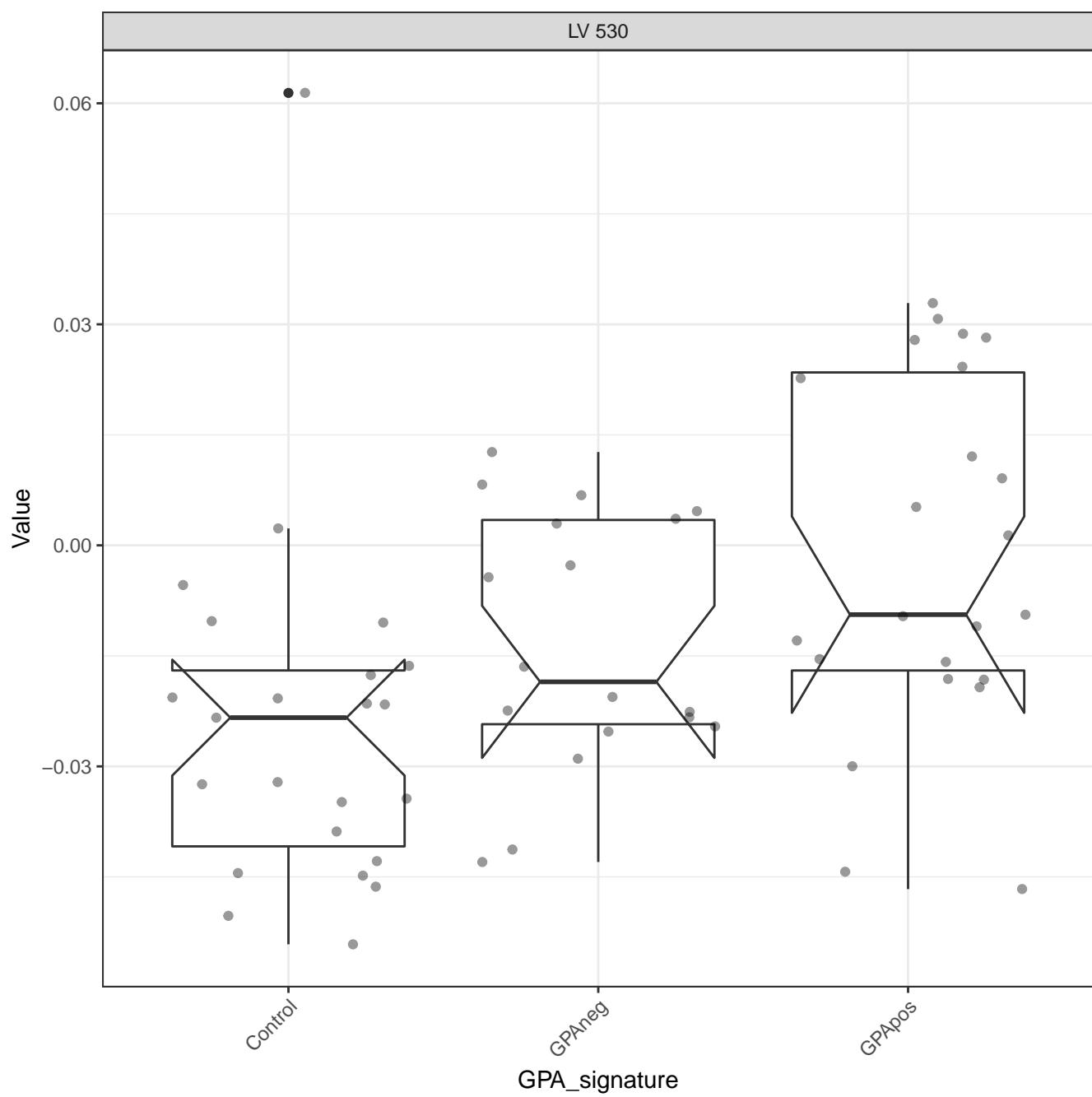




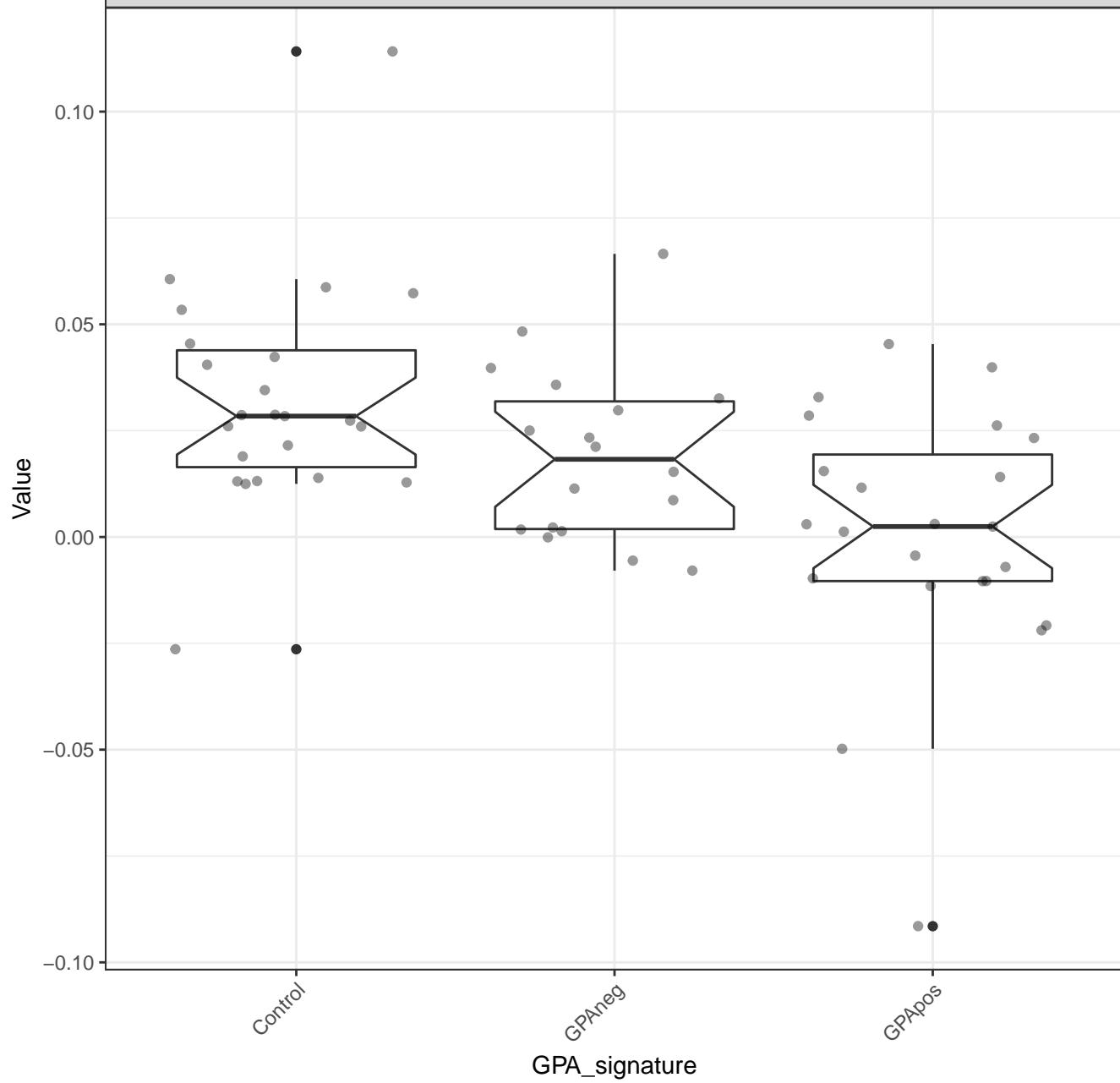
## LV 528







## LV 531



LV 532

Value

0.02

0.00

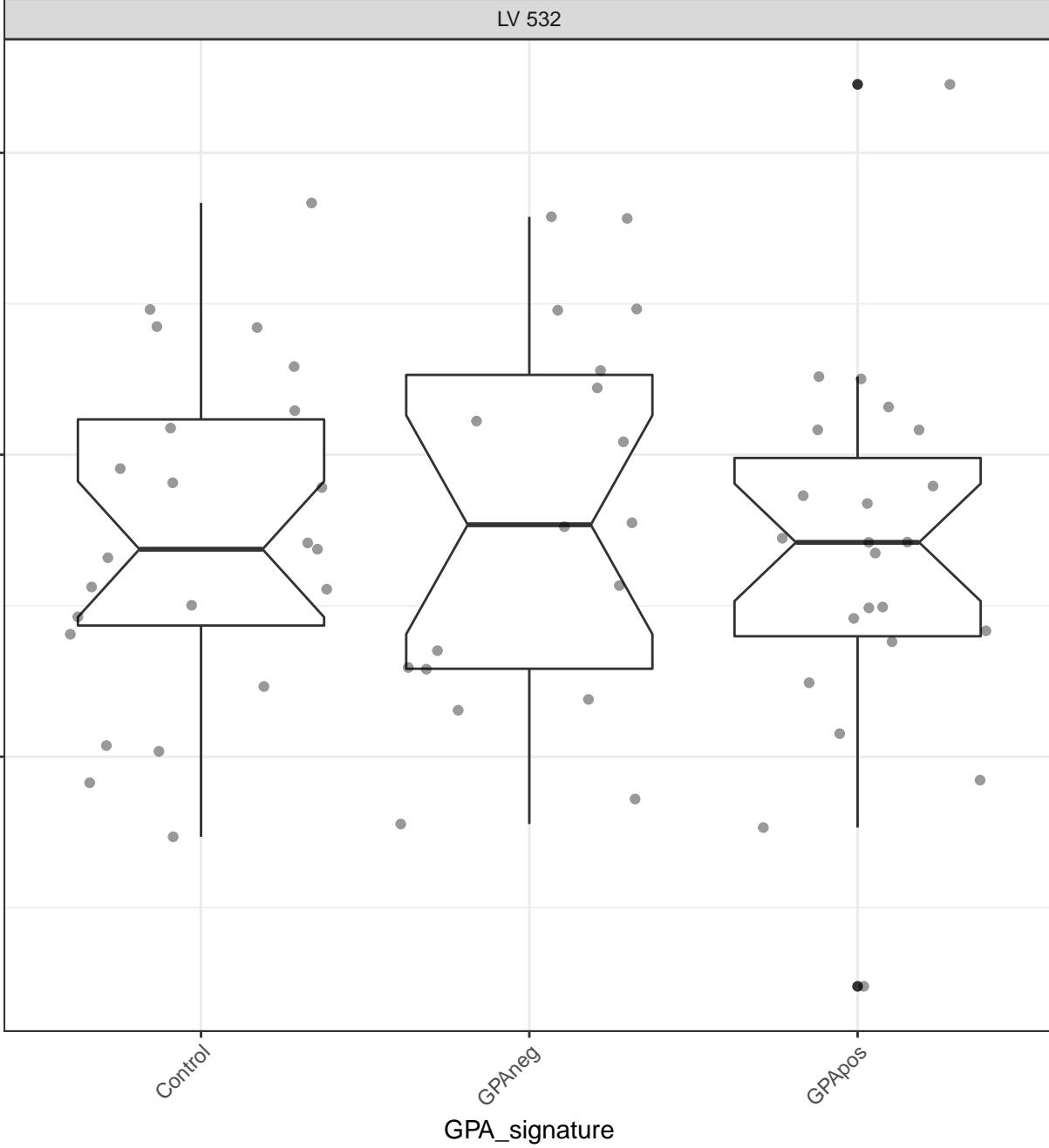
-0.02

Control

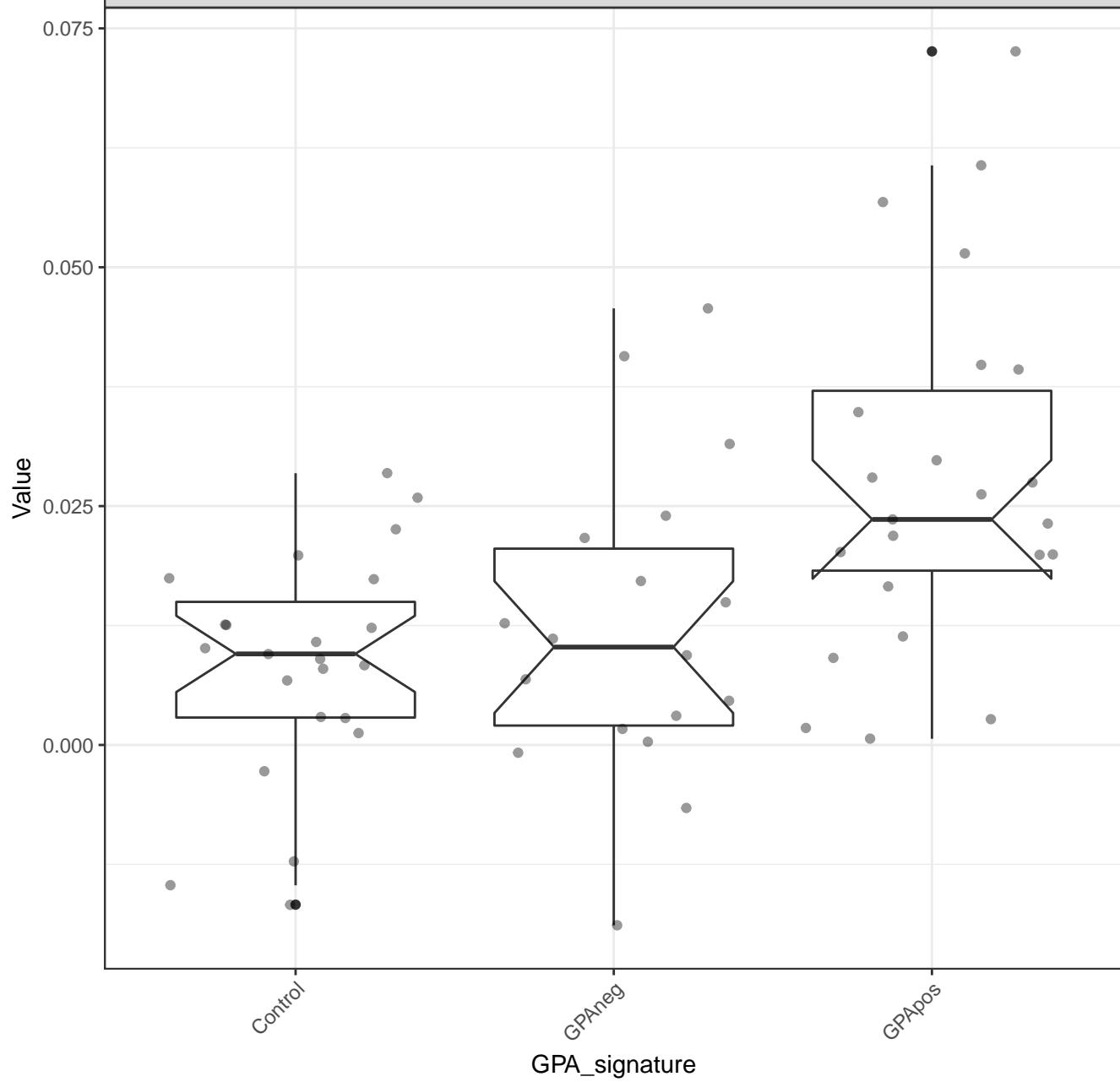
GPAneg

GPAPos

GPA\_signature



LV 533



## LV 534

Value

0.025

0.000

-0.025

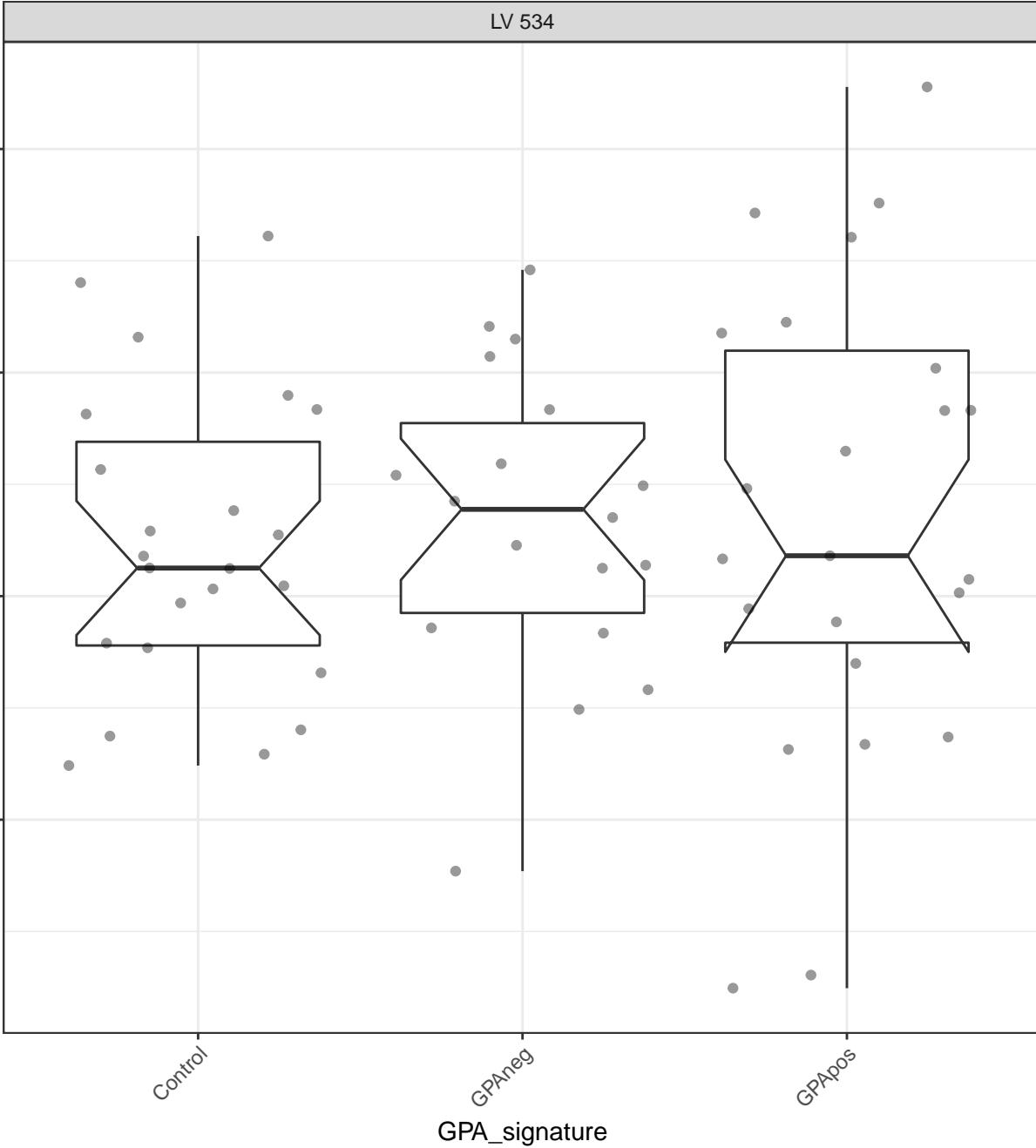
-0.050

Control

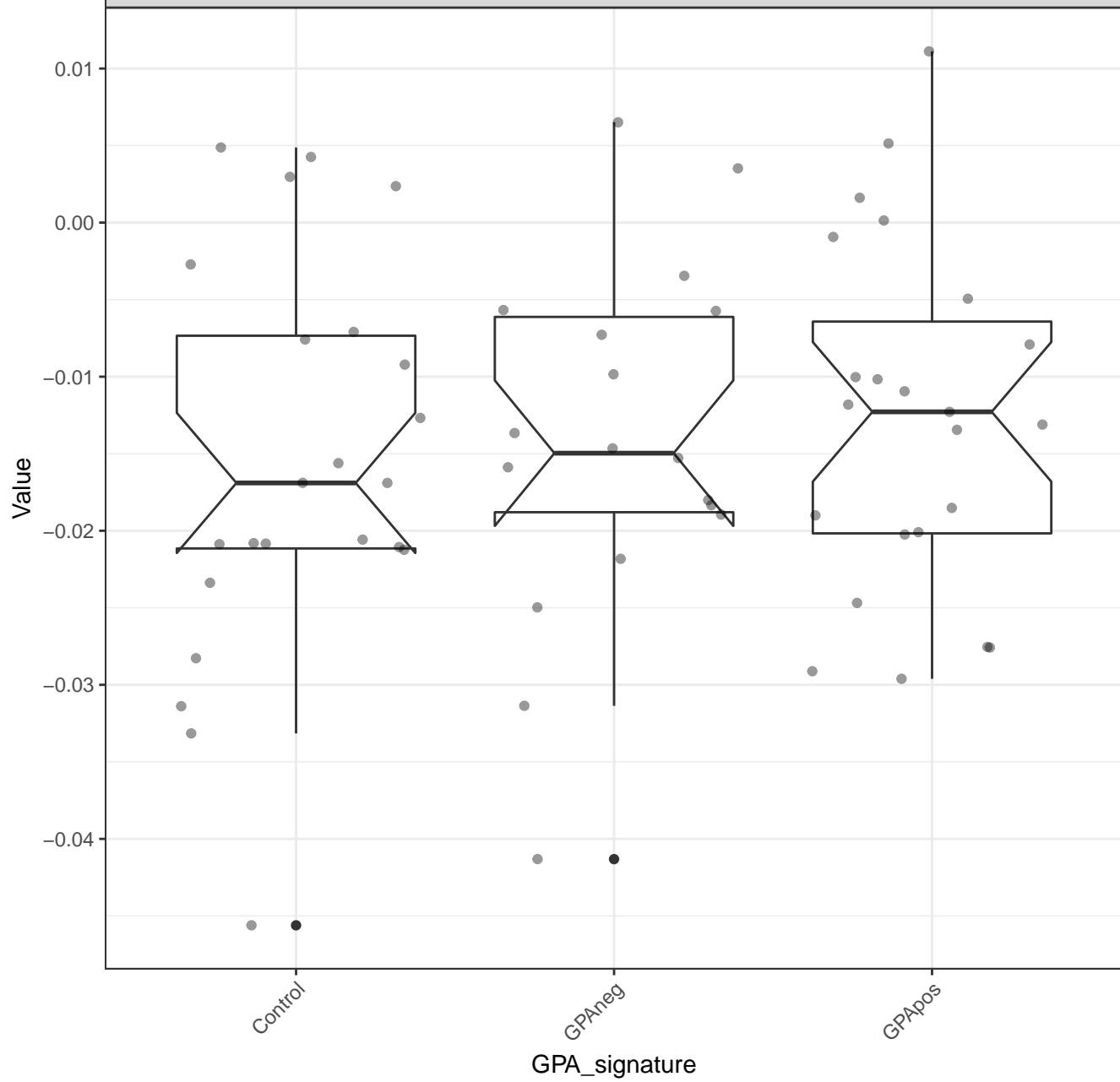
GPAneg

GPAPos

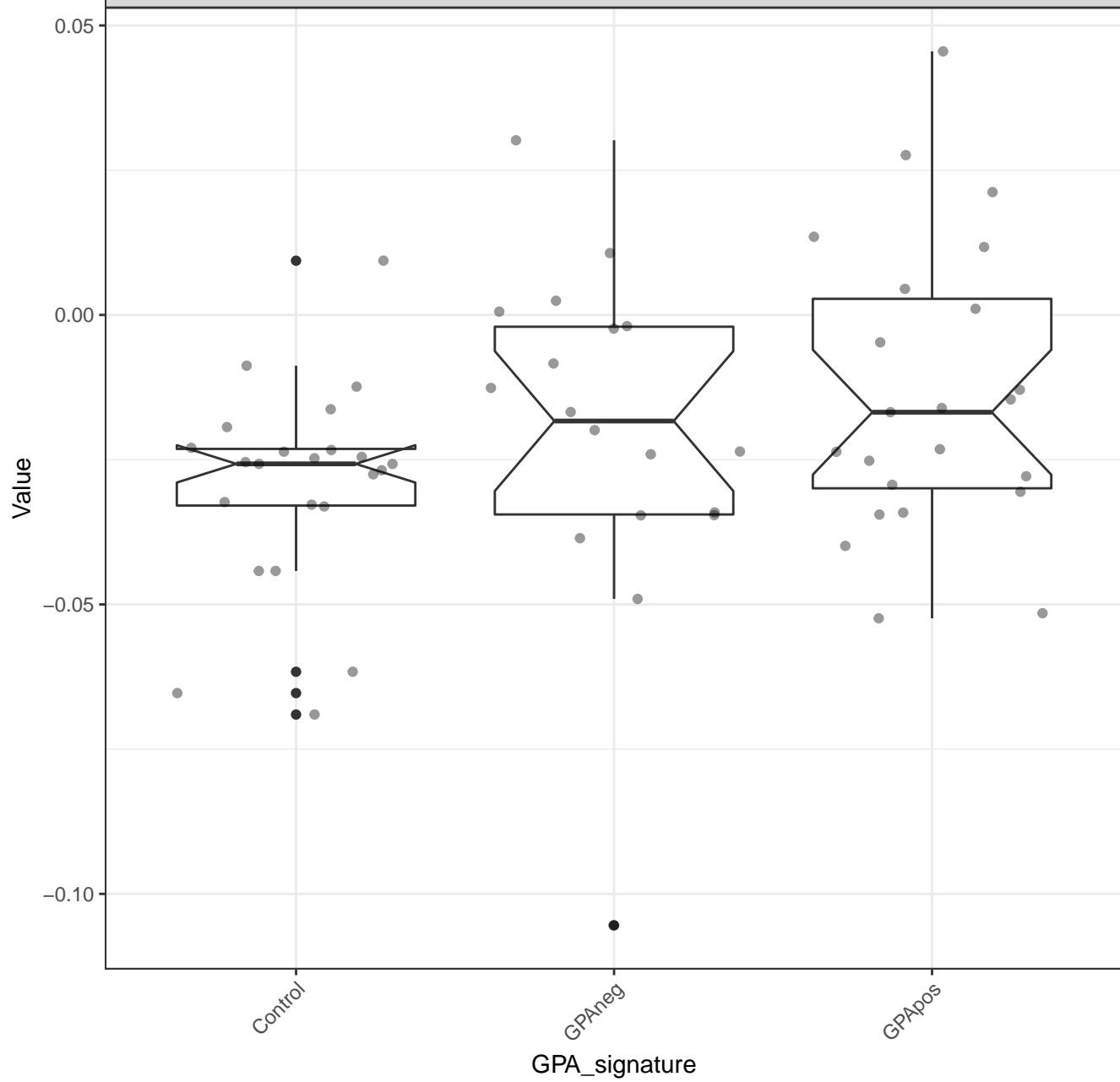
GPA\_signature



LV 535



LV 536



LV 537

Value

0.04

0.02

0.00

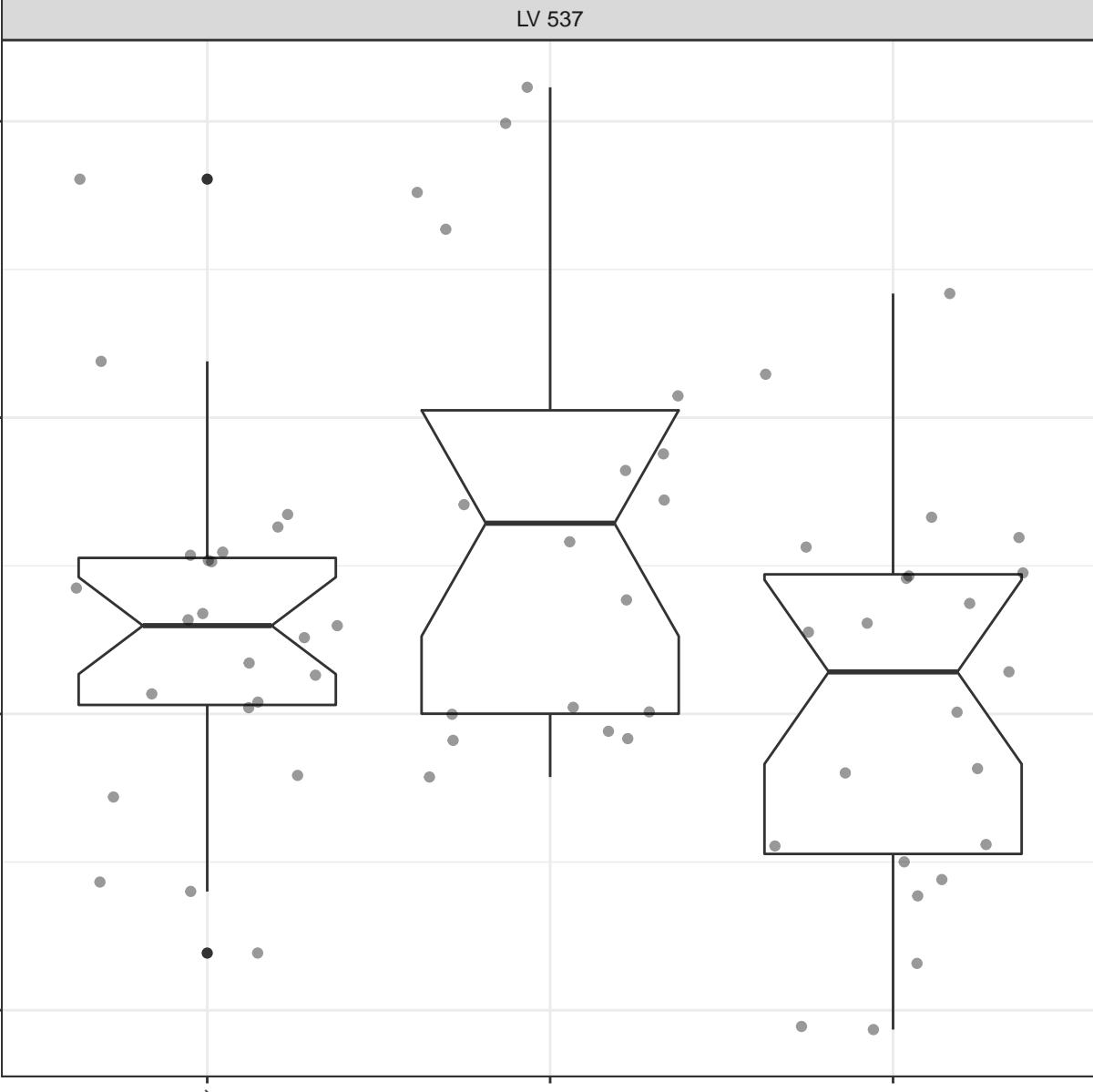
-0.02

Control

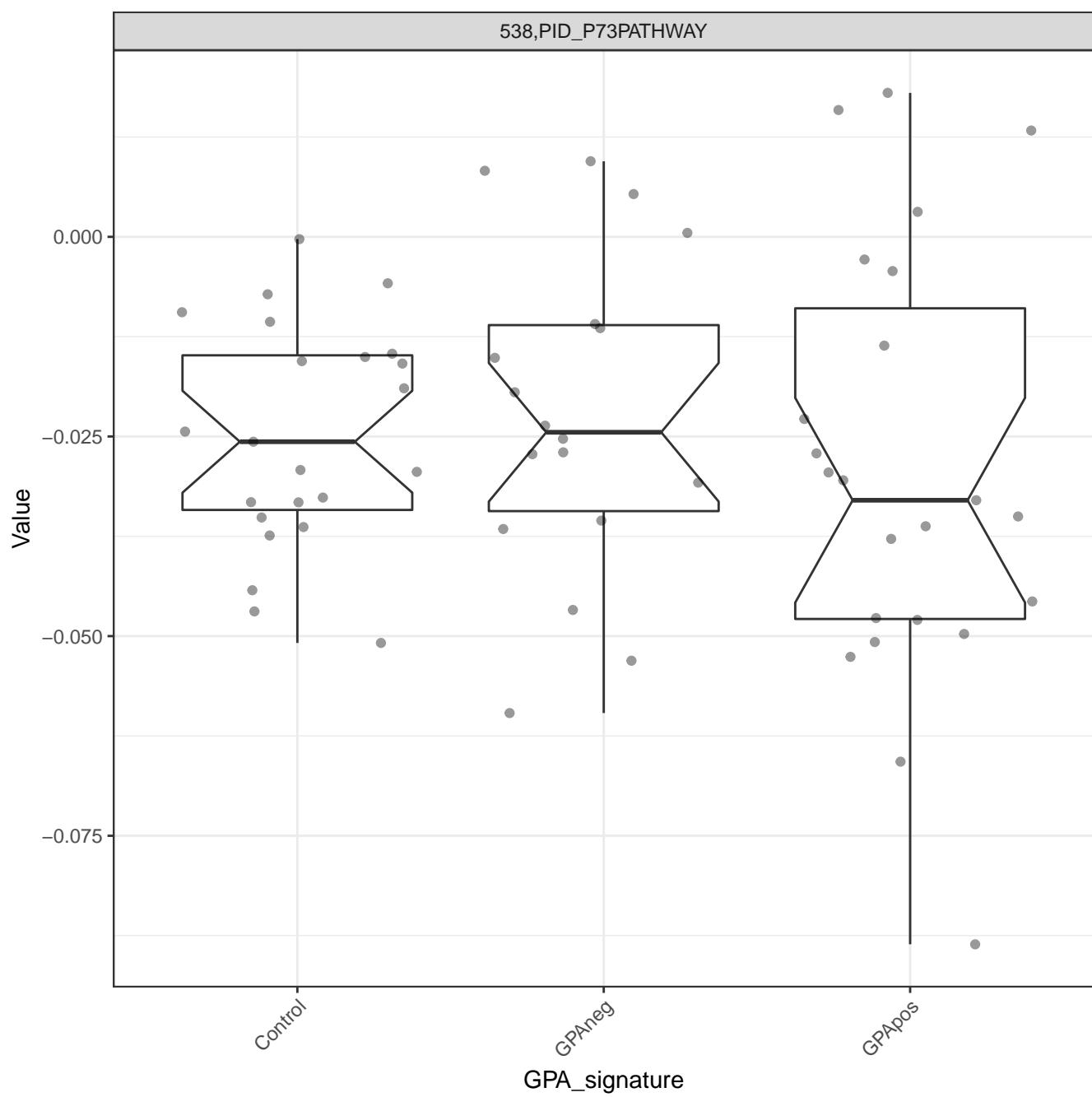
GPA\_signature

GPAneg

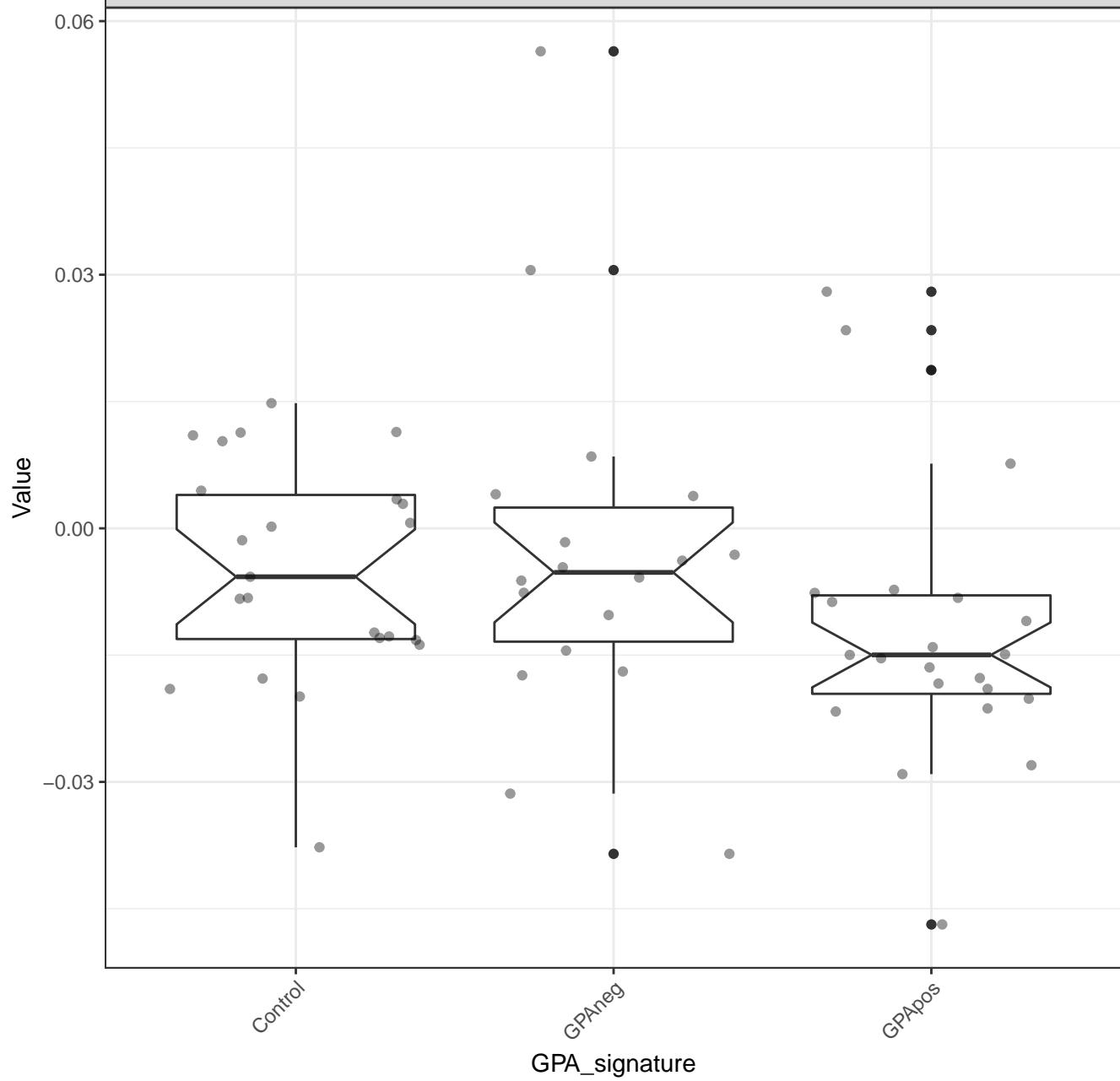
GPApos



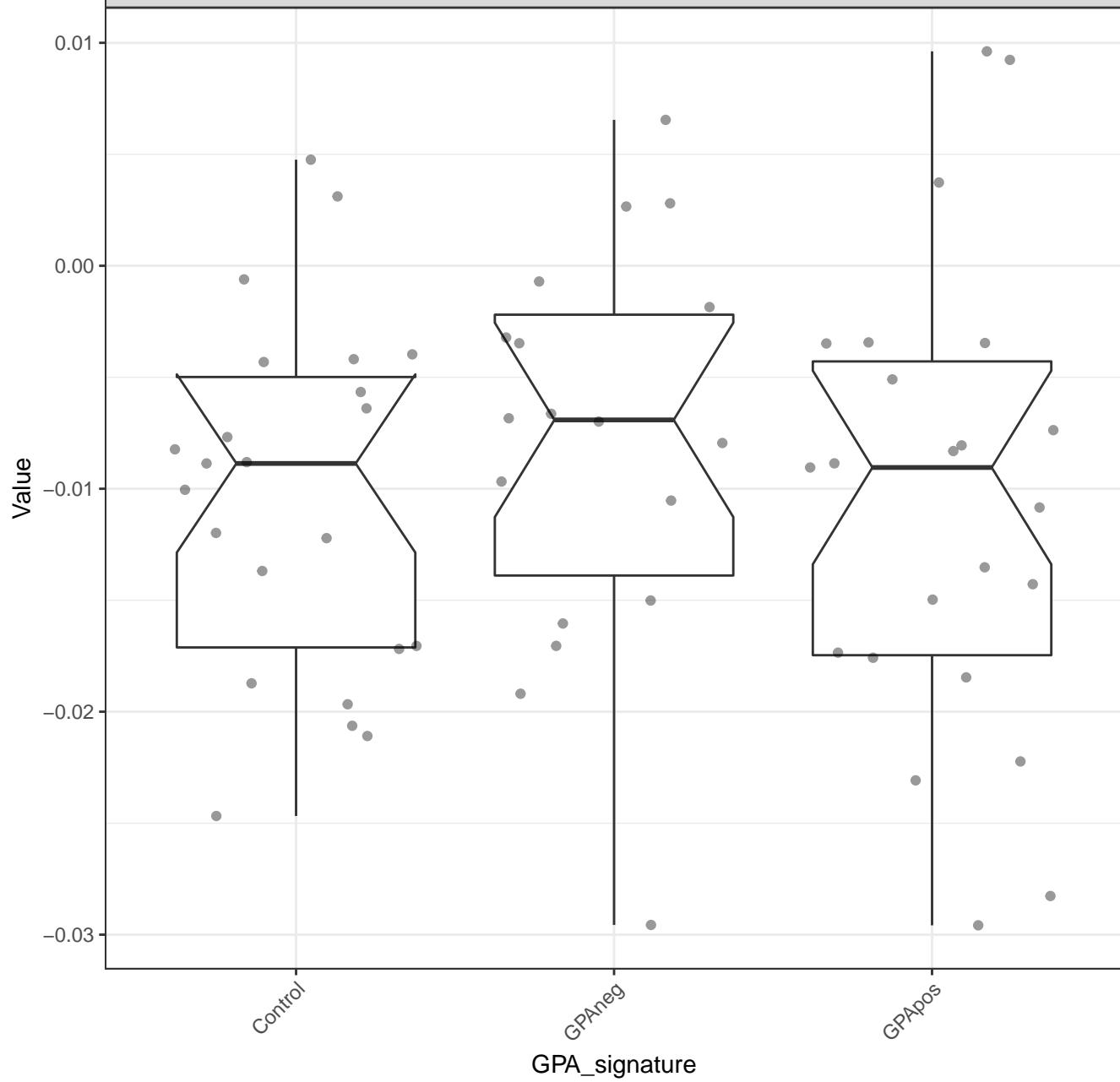
## 538,PID\_P73PATHWAY



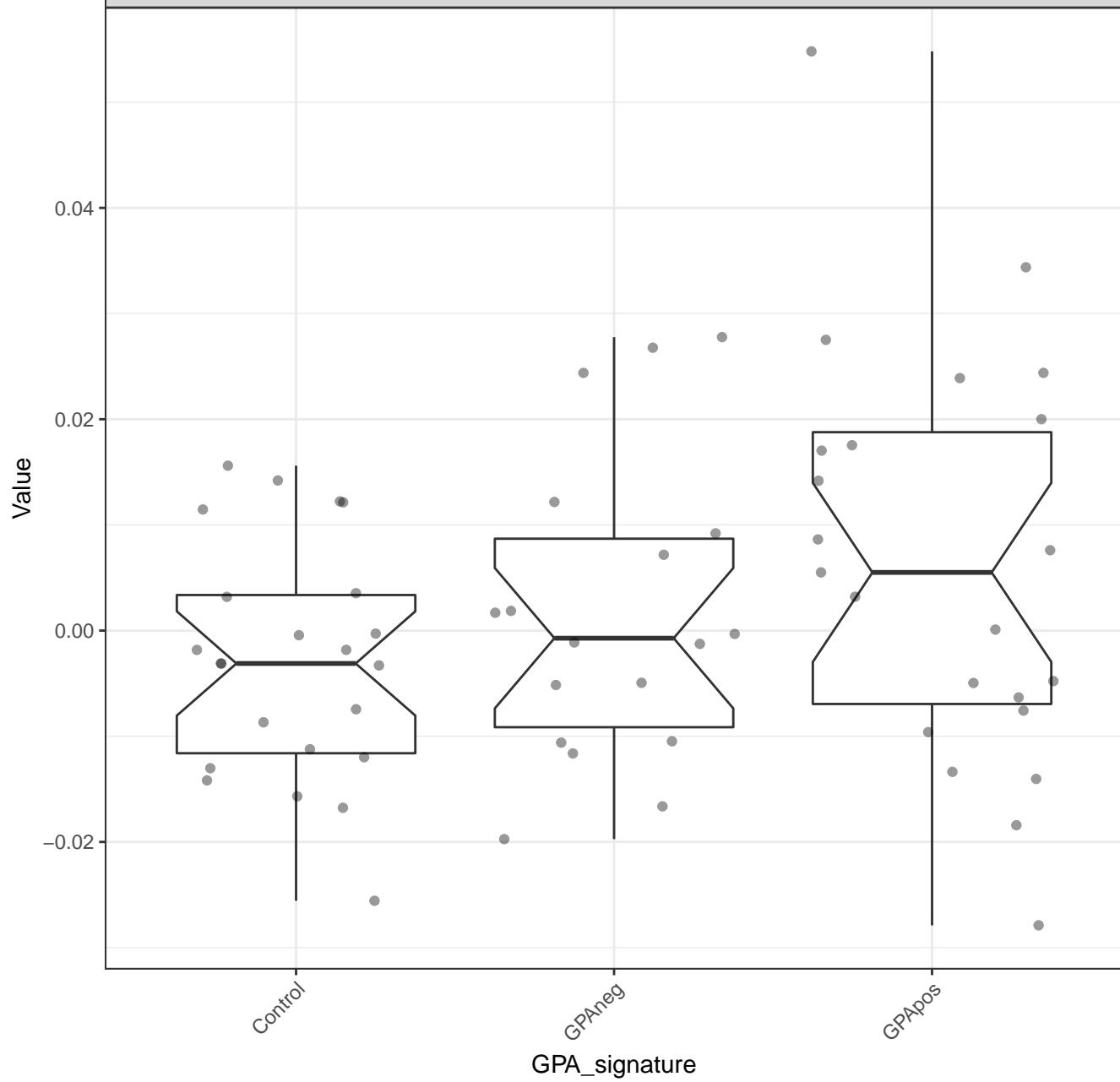
LV 539

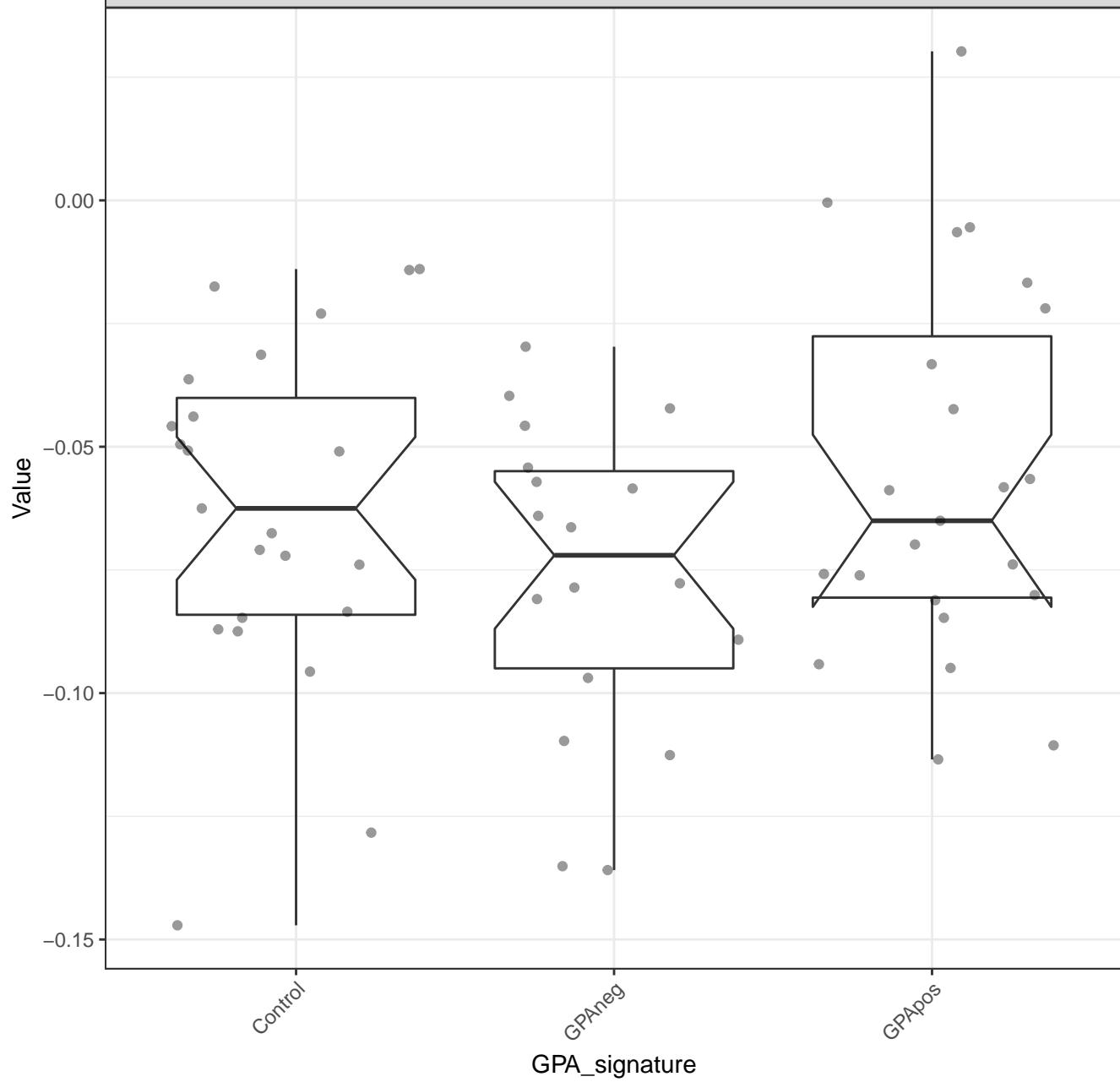


LV 540

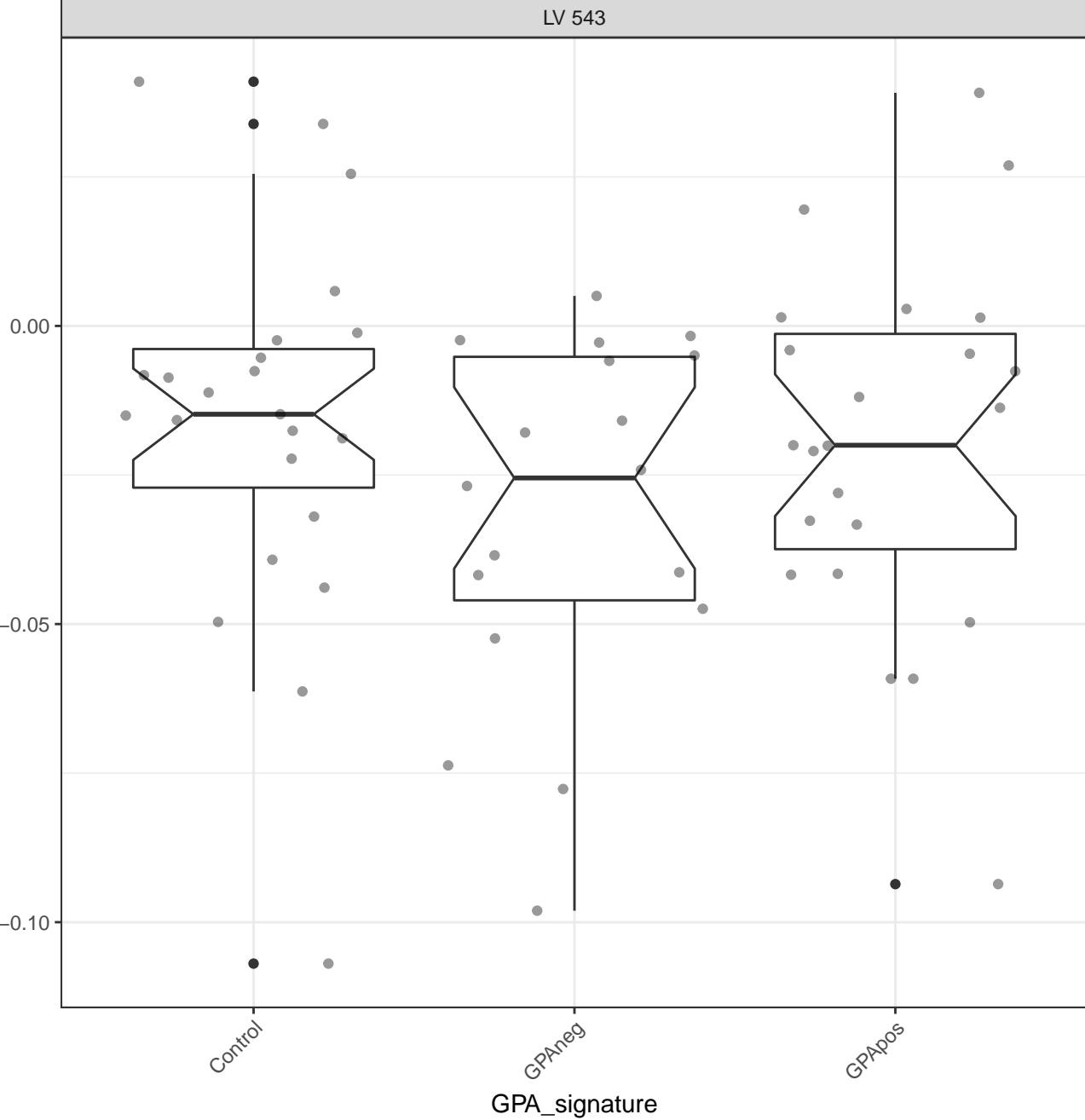


## 541,REACTOME\_G1\_PHASE





Value



Value

0.05

0.00

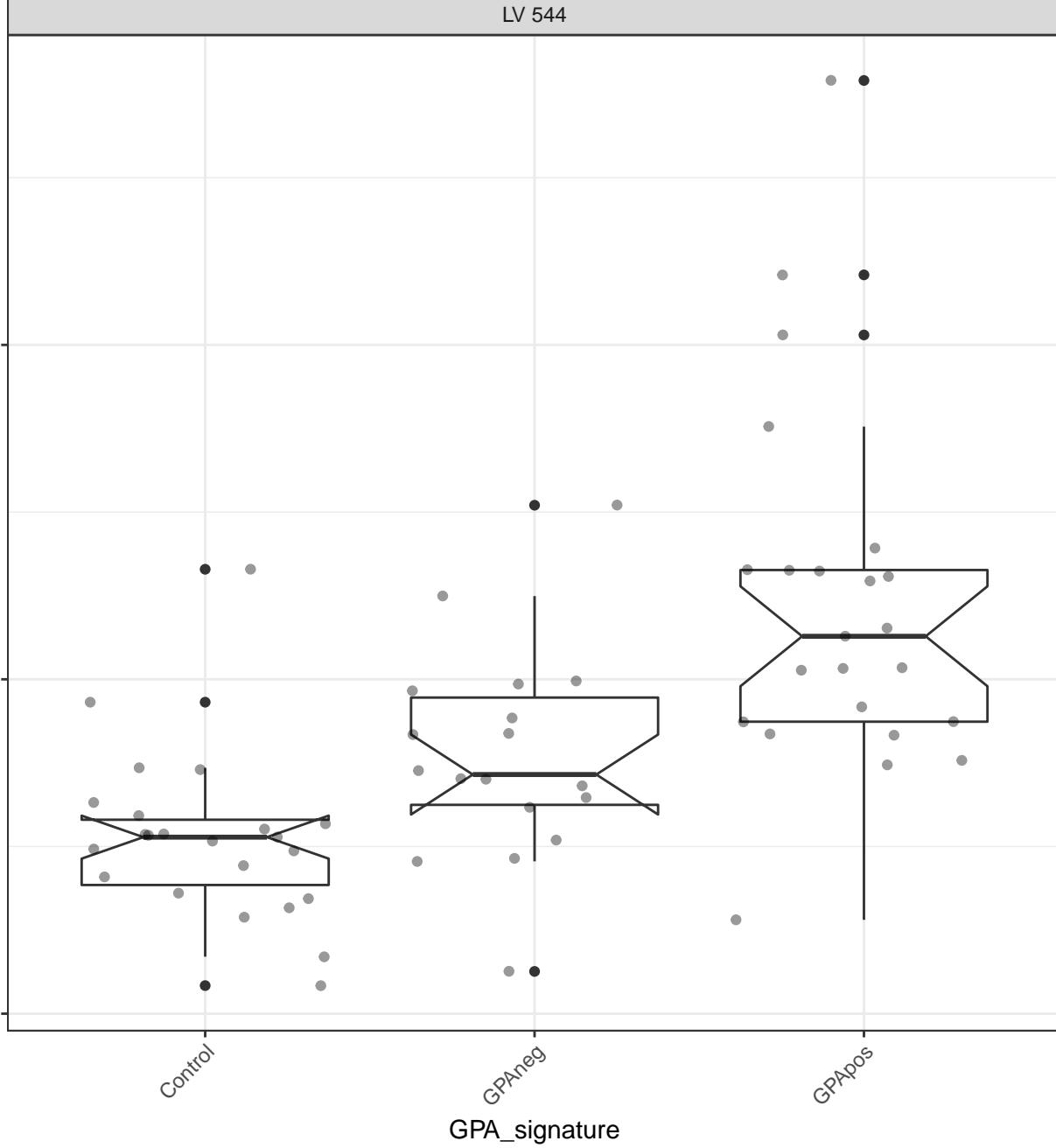
-0.05

Control

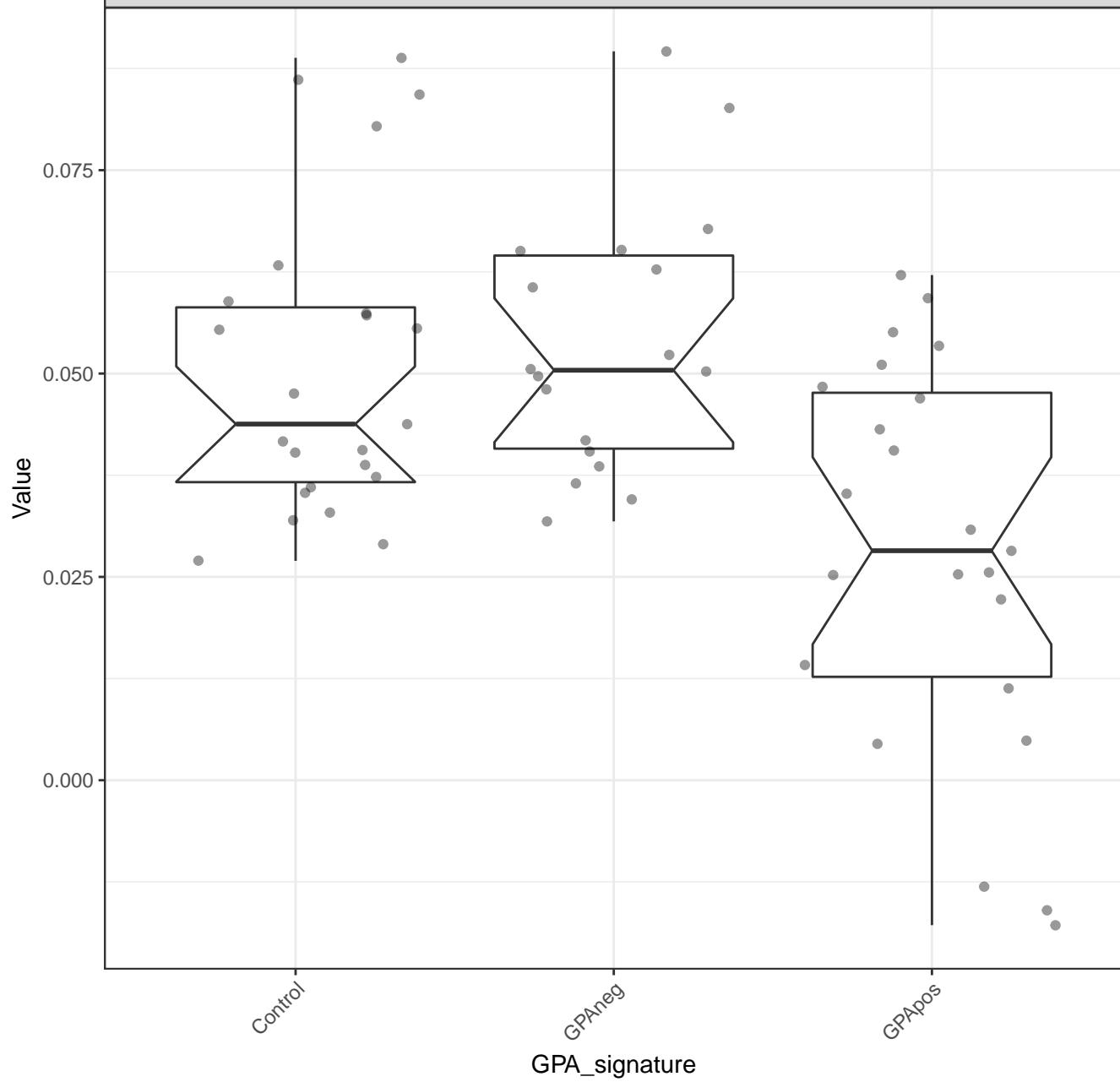
GPA\_signature

GPAneg

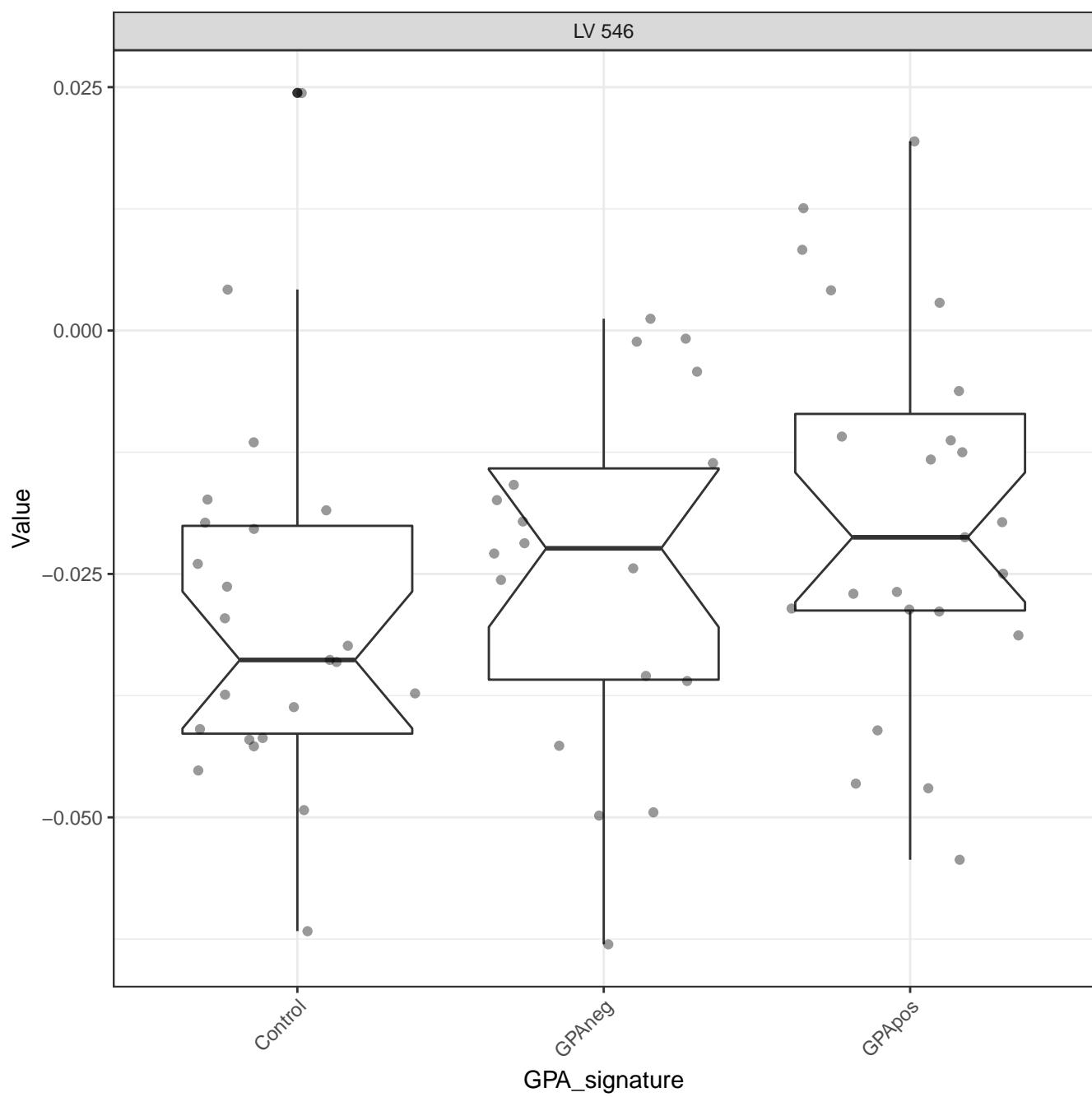
GPApos

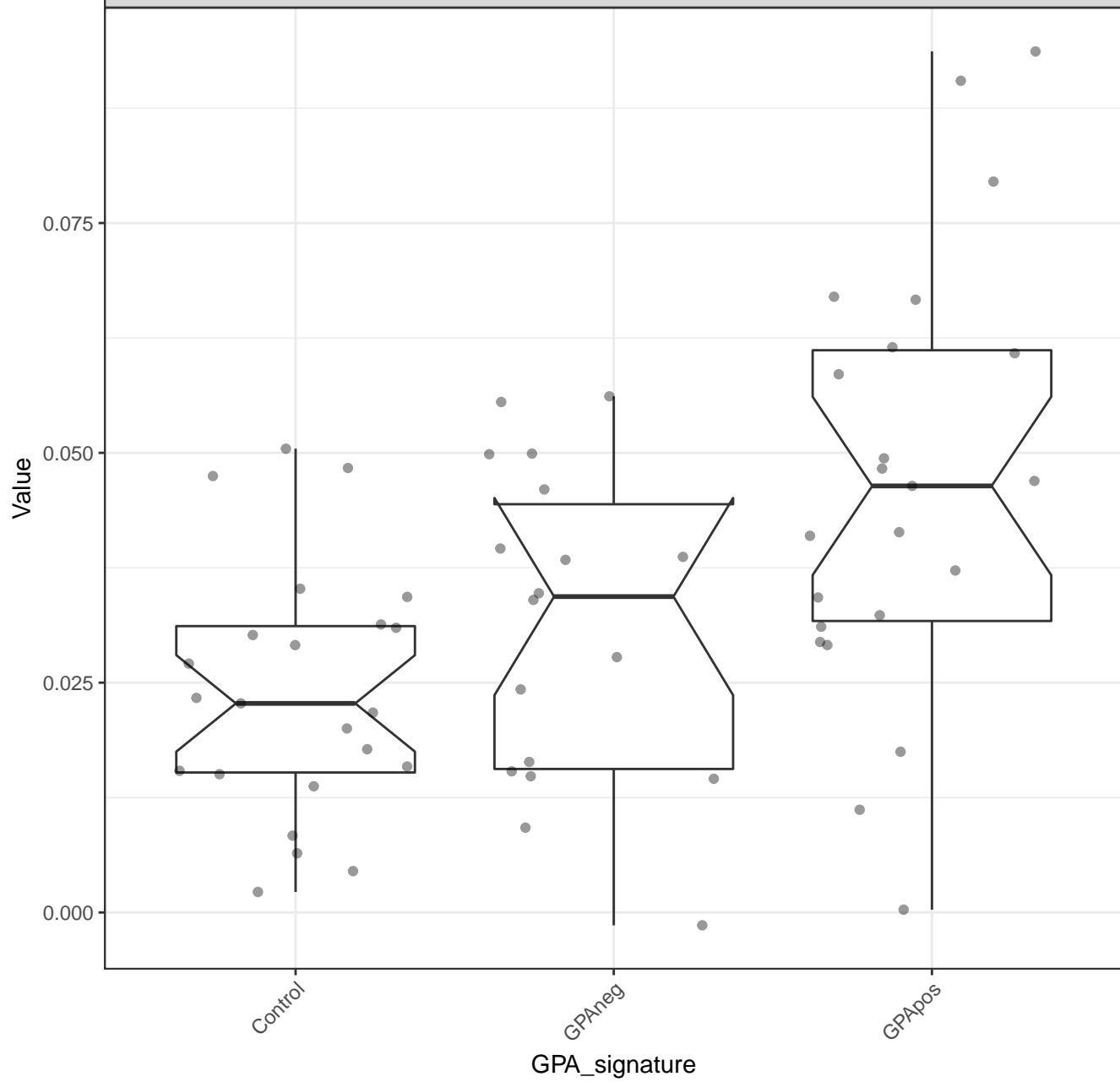


LV 545



LV 546





LV 548

Value

0.06

0.03

0.00

-0.03

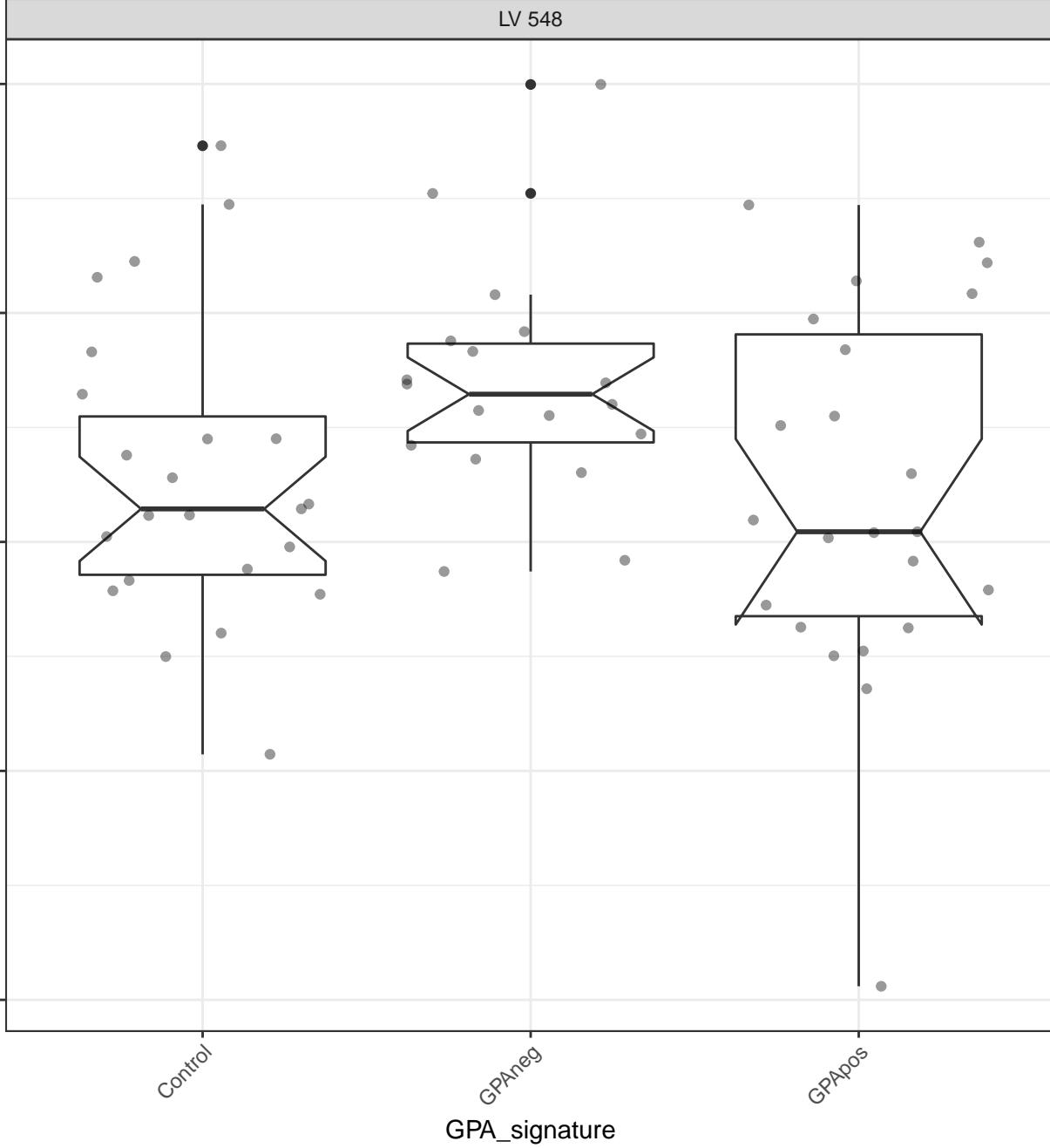
-0.06

Control

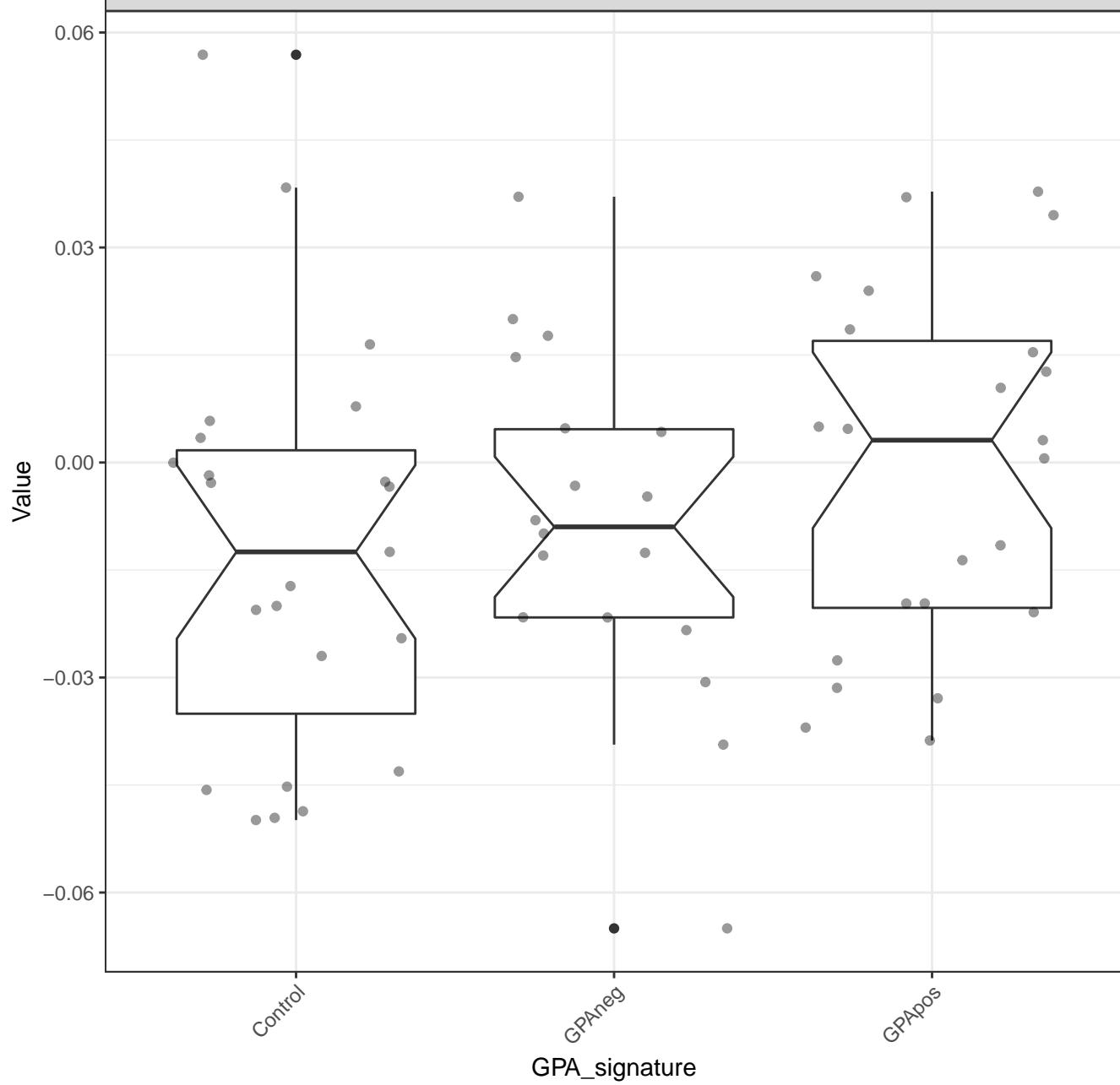
GPAneg

GPApos

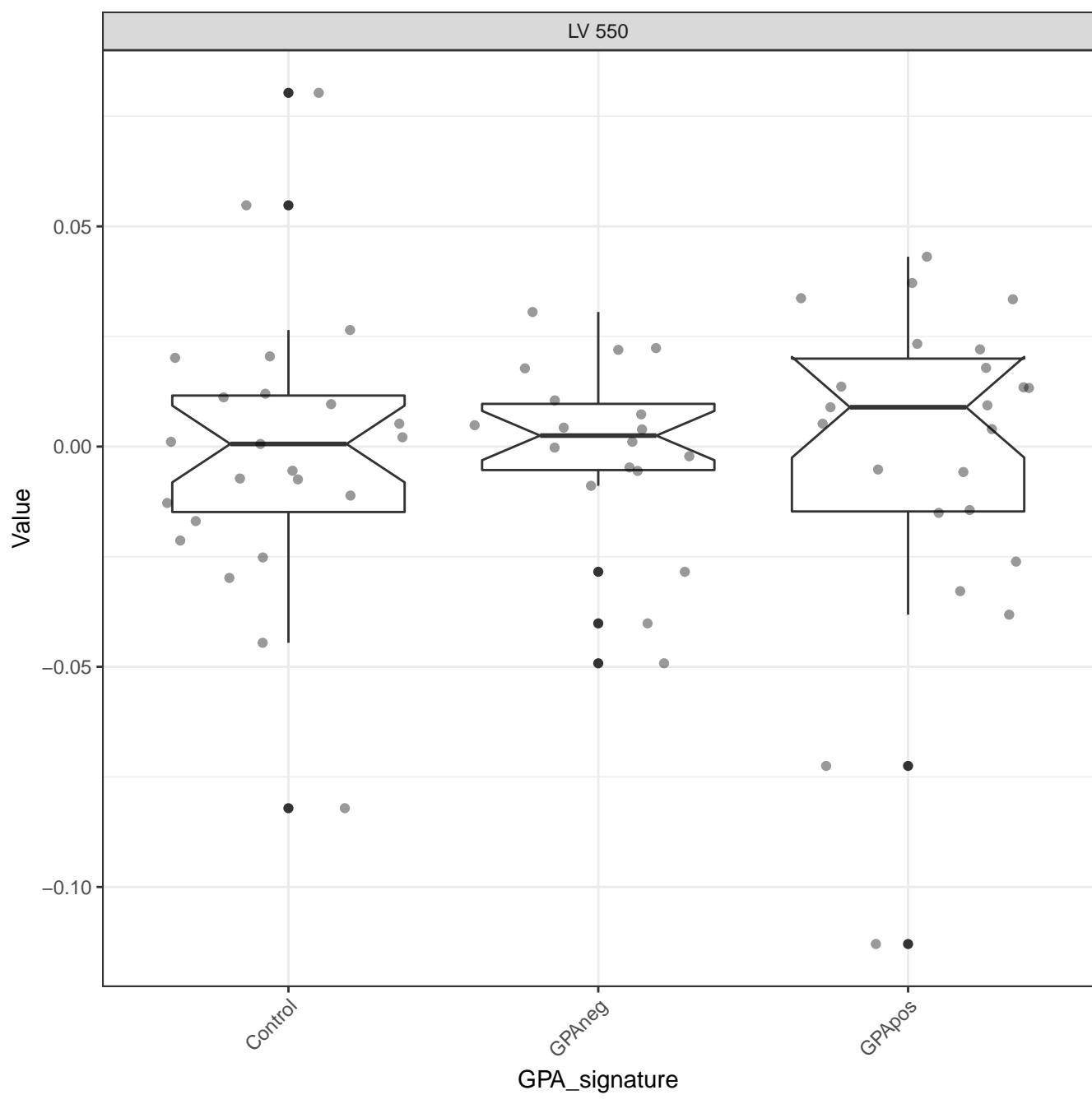
GPA\_signature



LV 549



## LV 550



## LV 551

Value

0.05

0.00

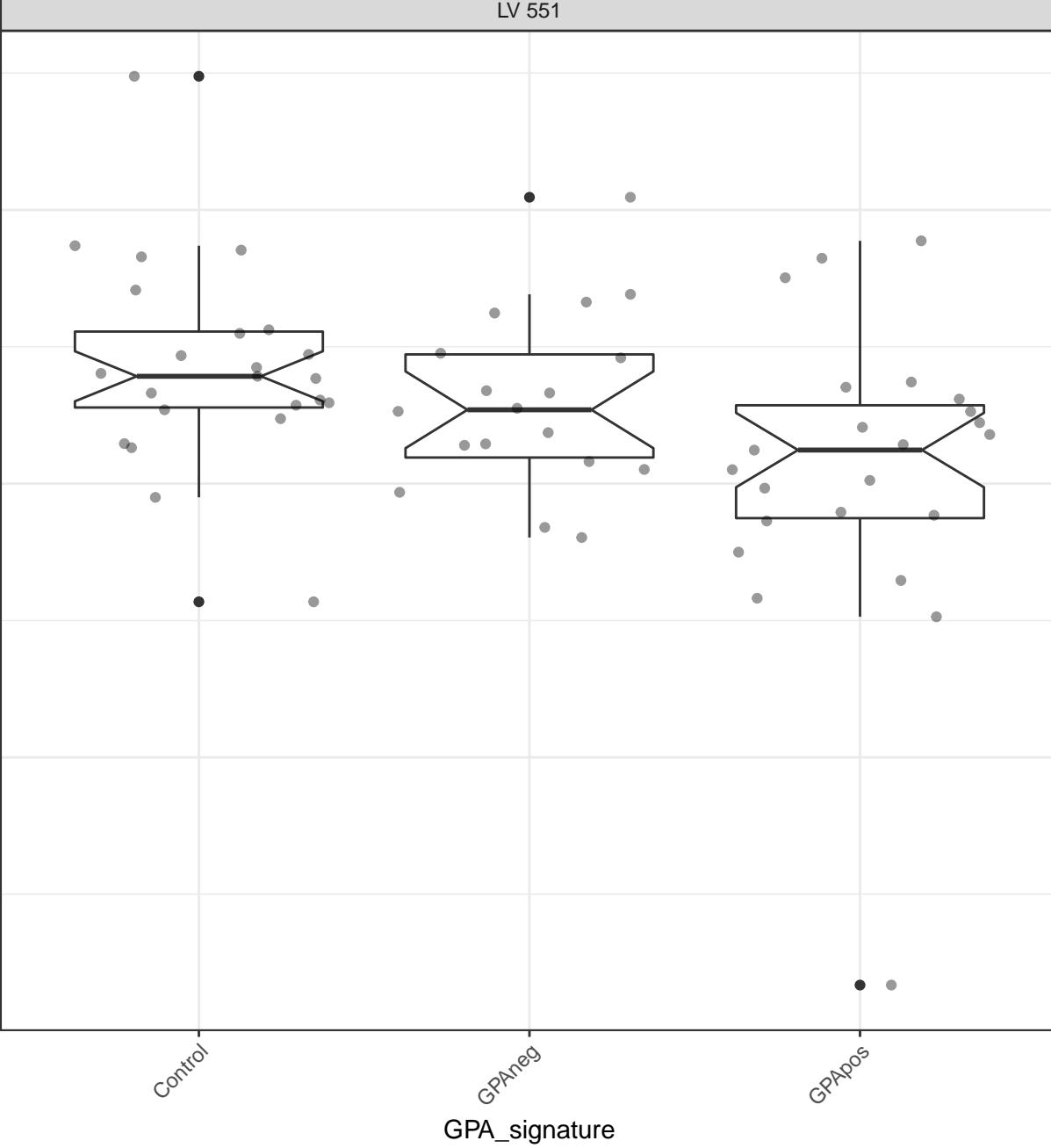
-0.05

Control

GPA\_signature

GPAneg

GPApos



## LV 552

Value

0.05

0.00

-0.05

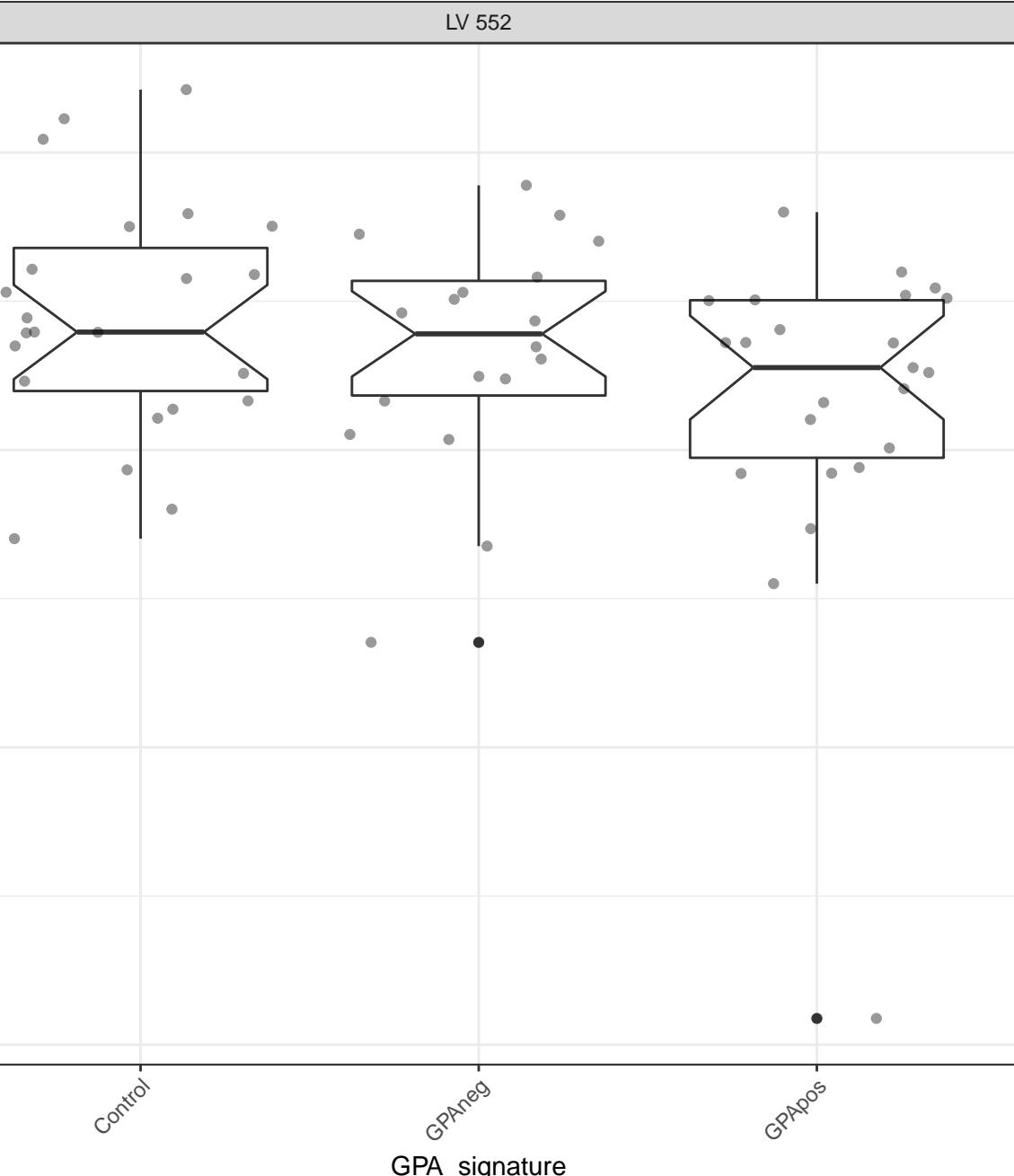
-0.10

Control

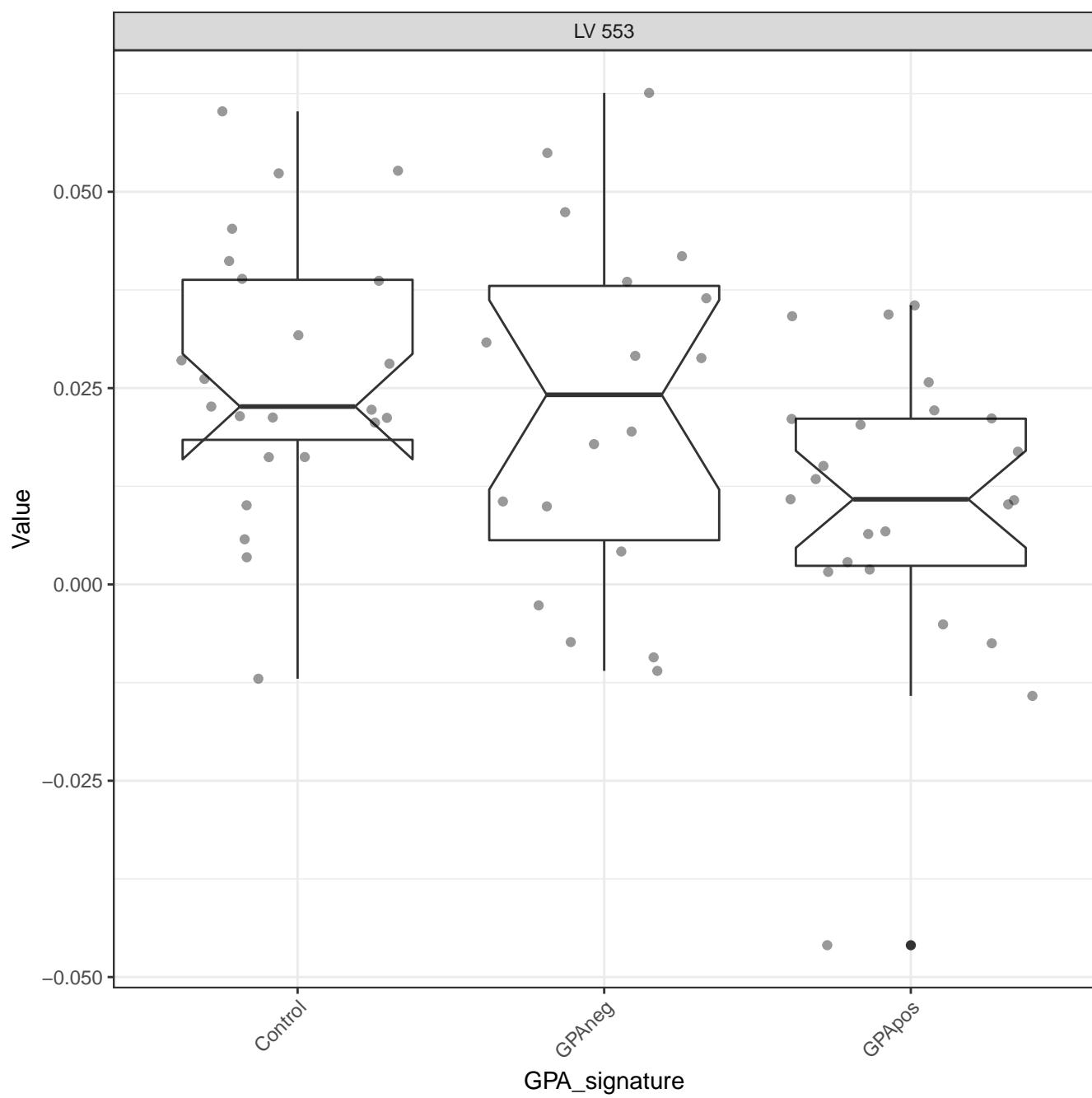
GPAneg

GPAPos

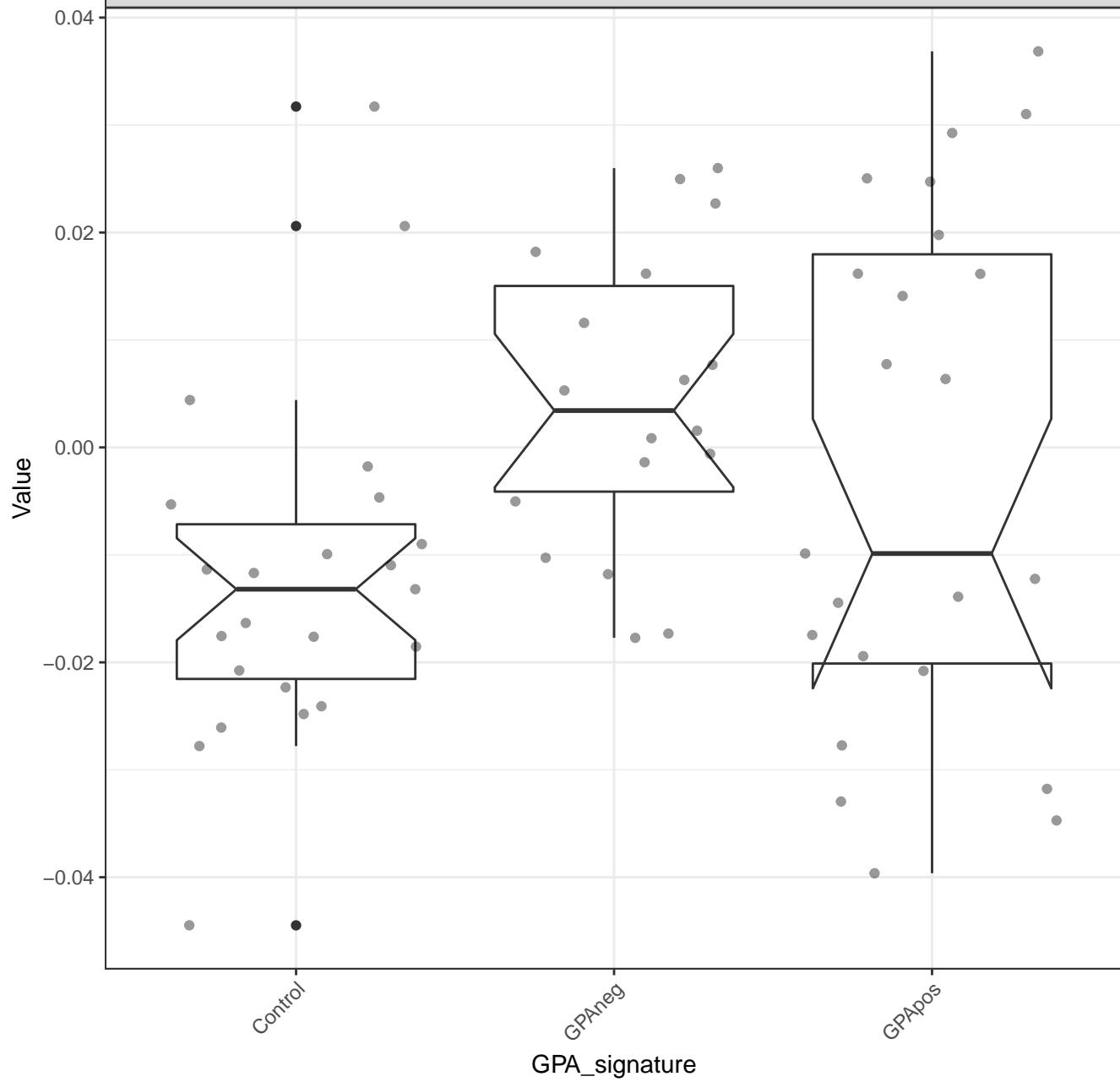
GPA\_signature

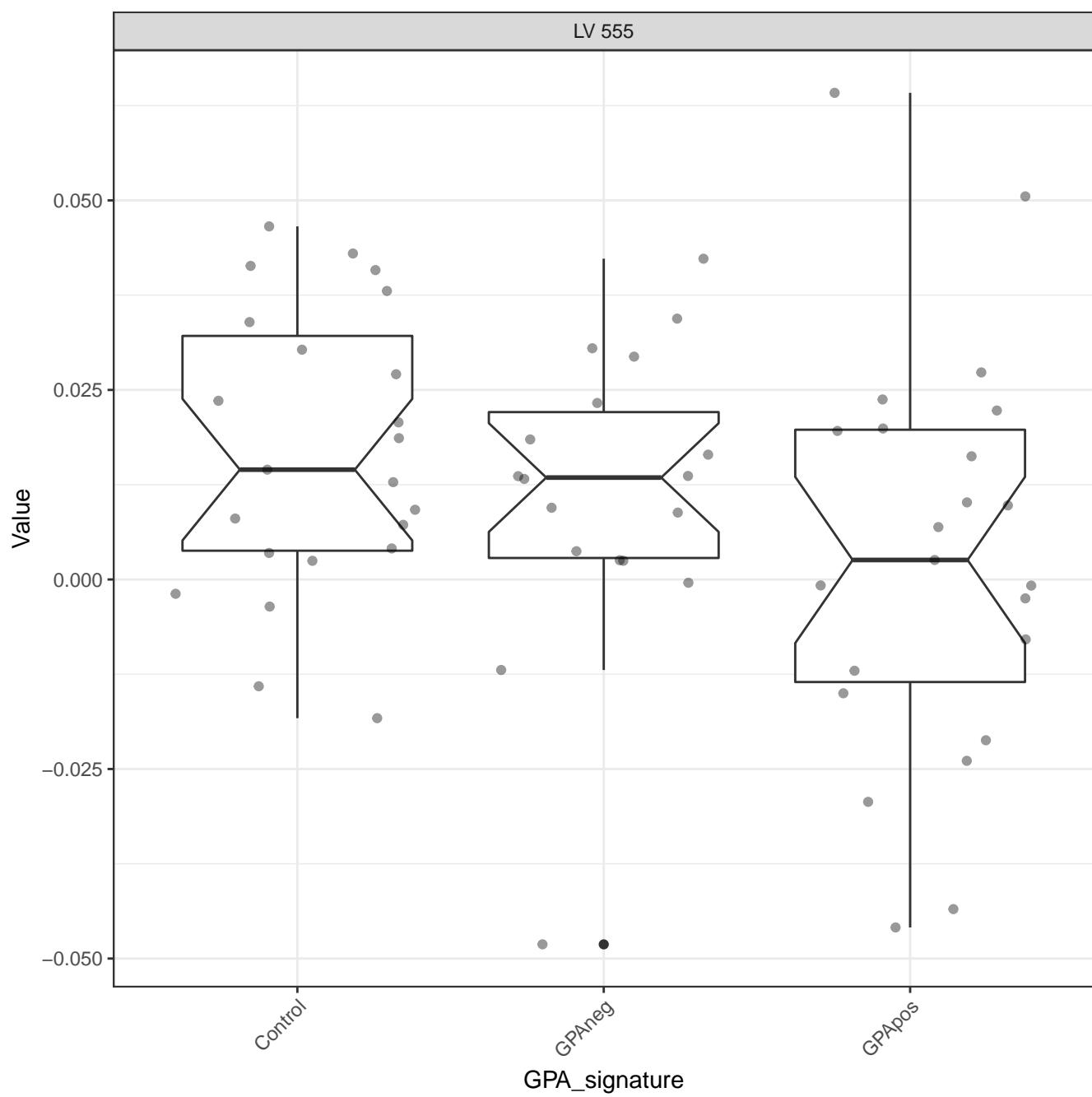


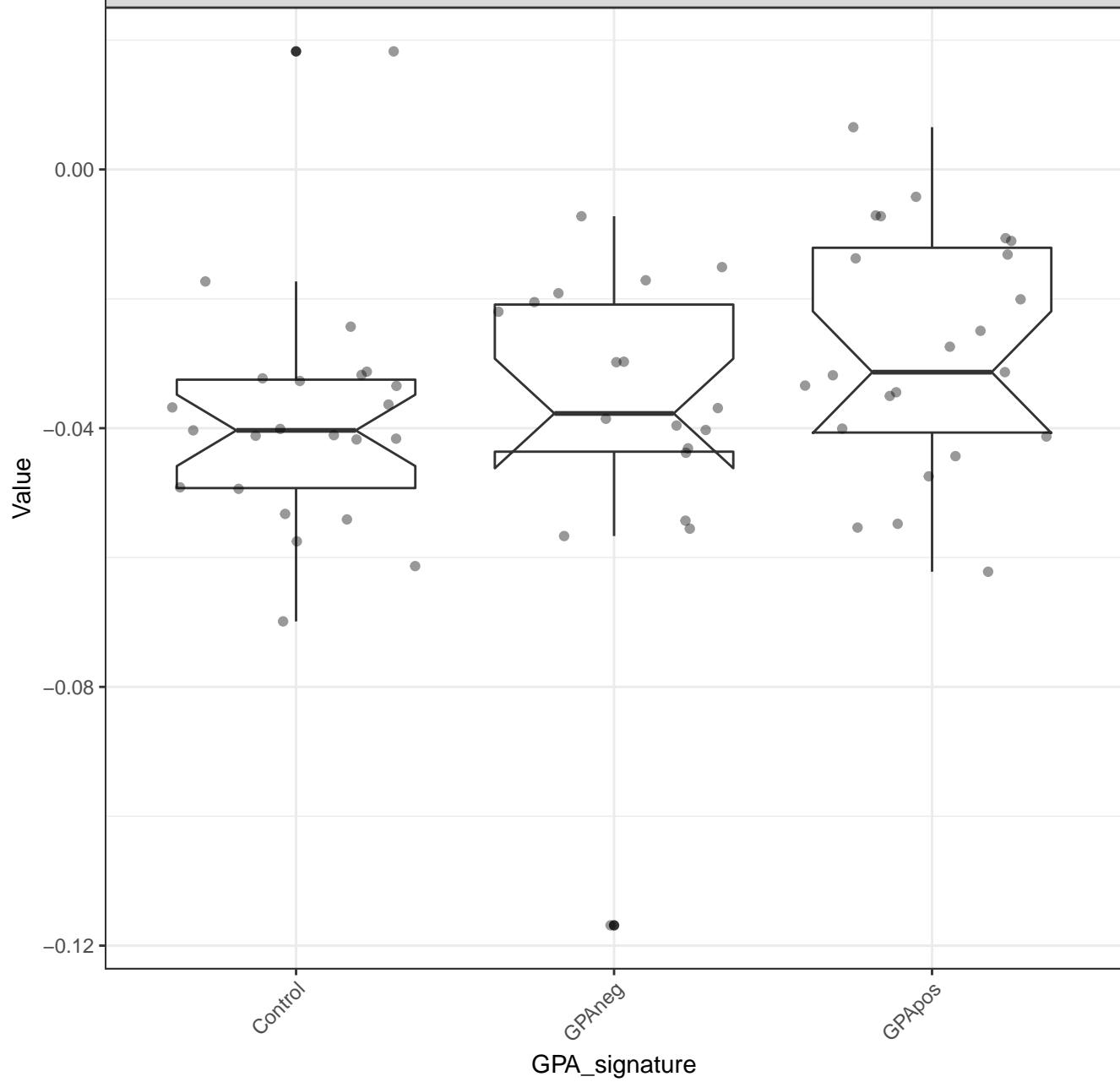
## LV 553



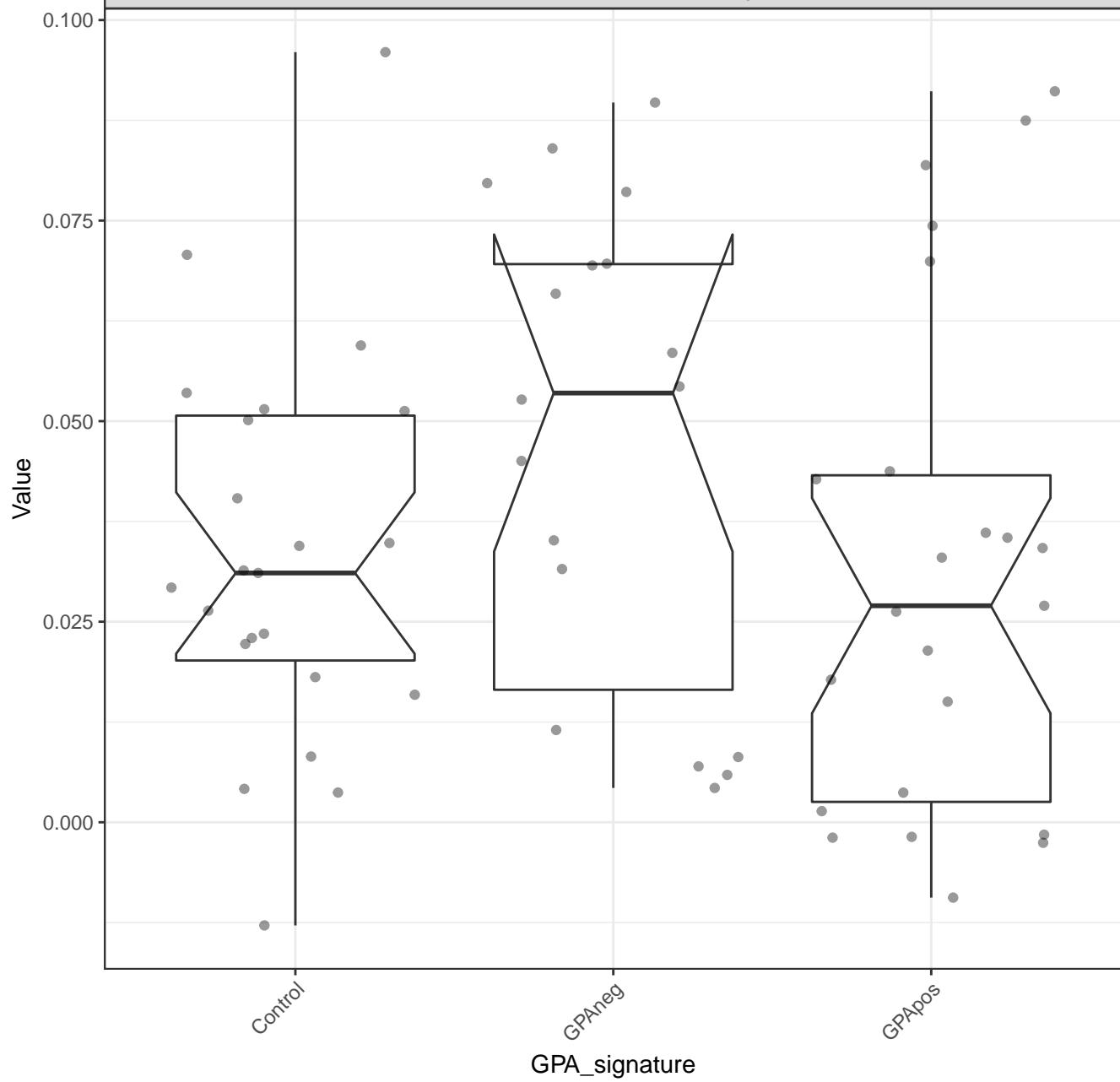
LV 554



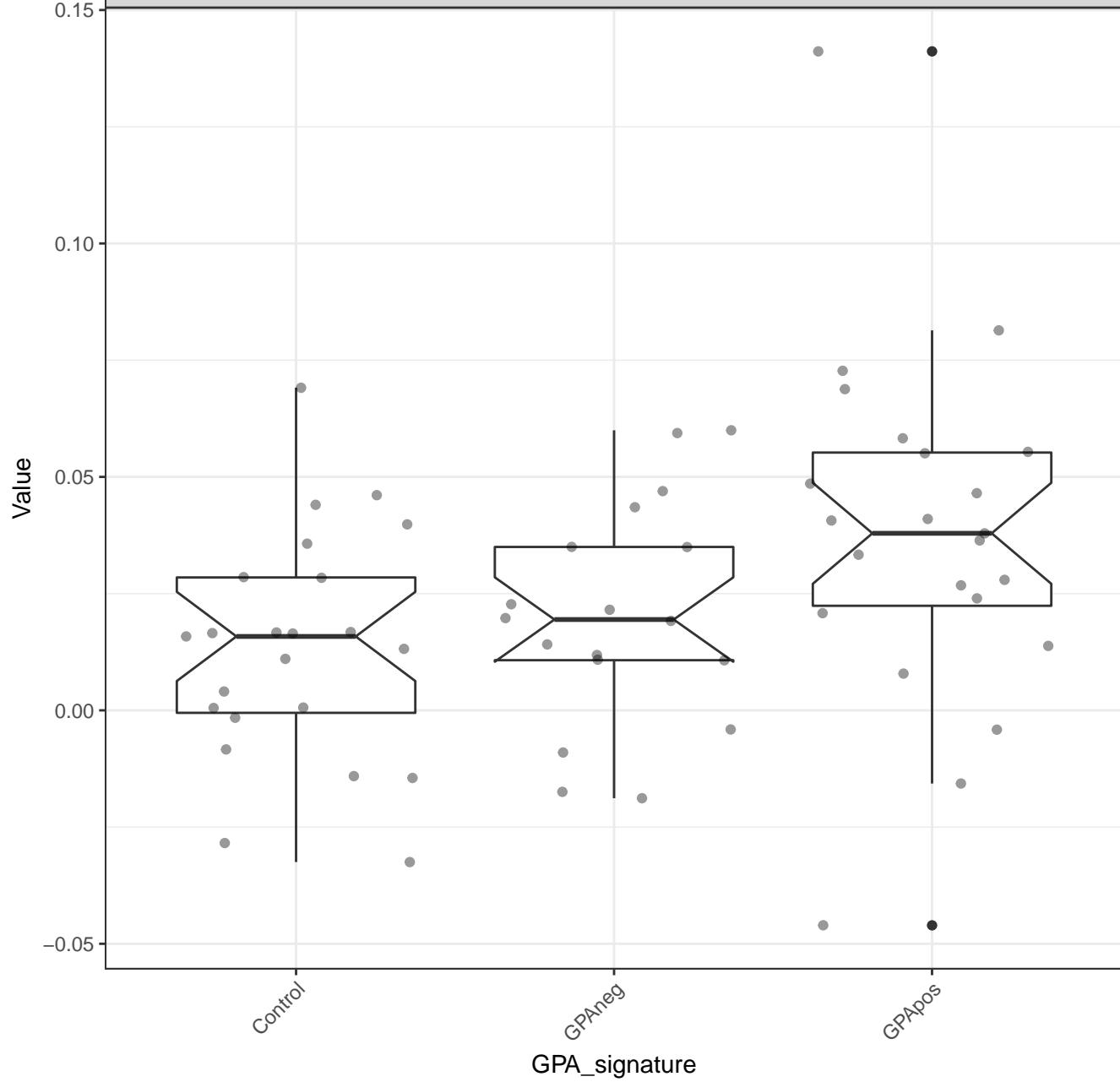




### 557,SVM Dendritic cells resting



LV 558



LV 559

Value

0.04

0.00

-0.04

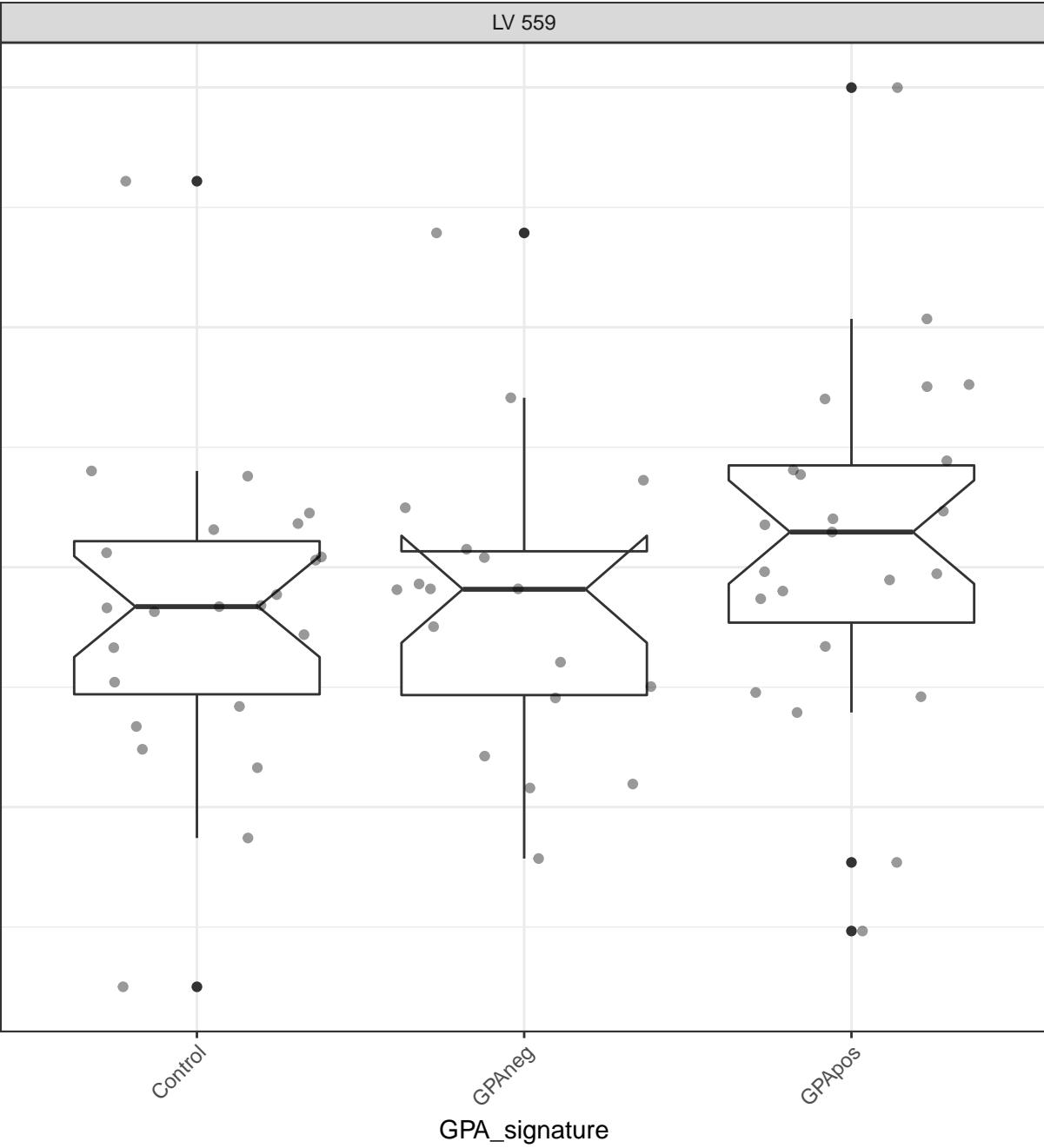
-0.08

Control

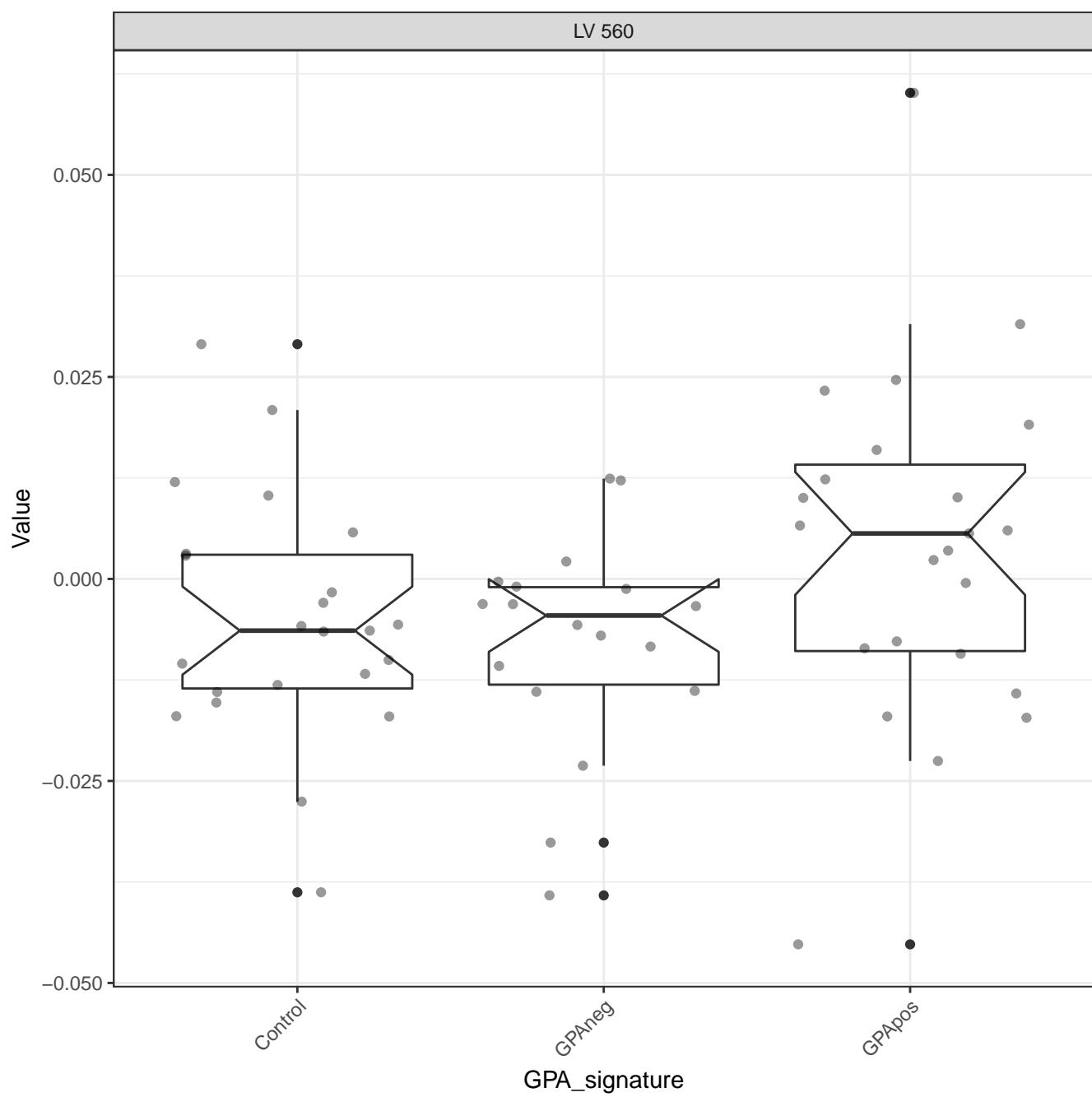
GPA\_signature

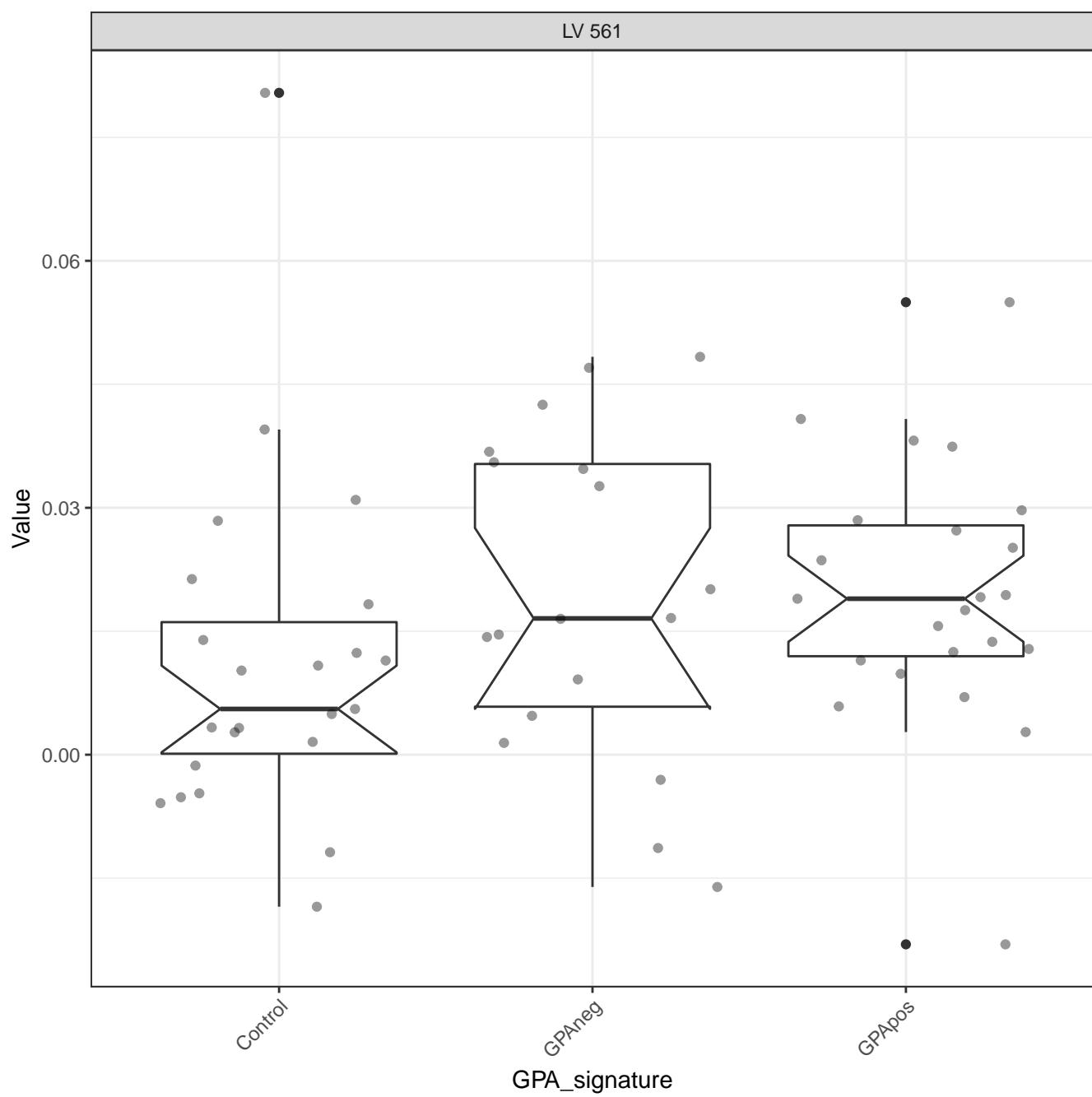
GPAneg

GPApos



## LV 560





## LV 562

Value

0.06

0.04

0.02

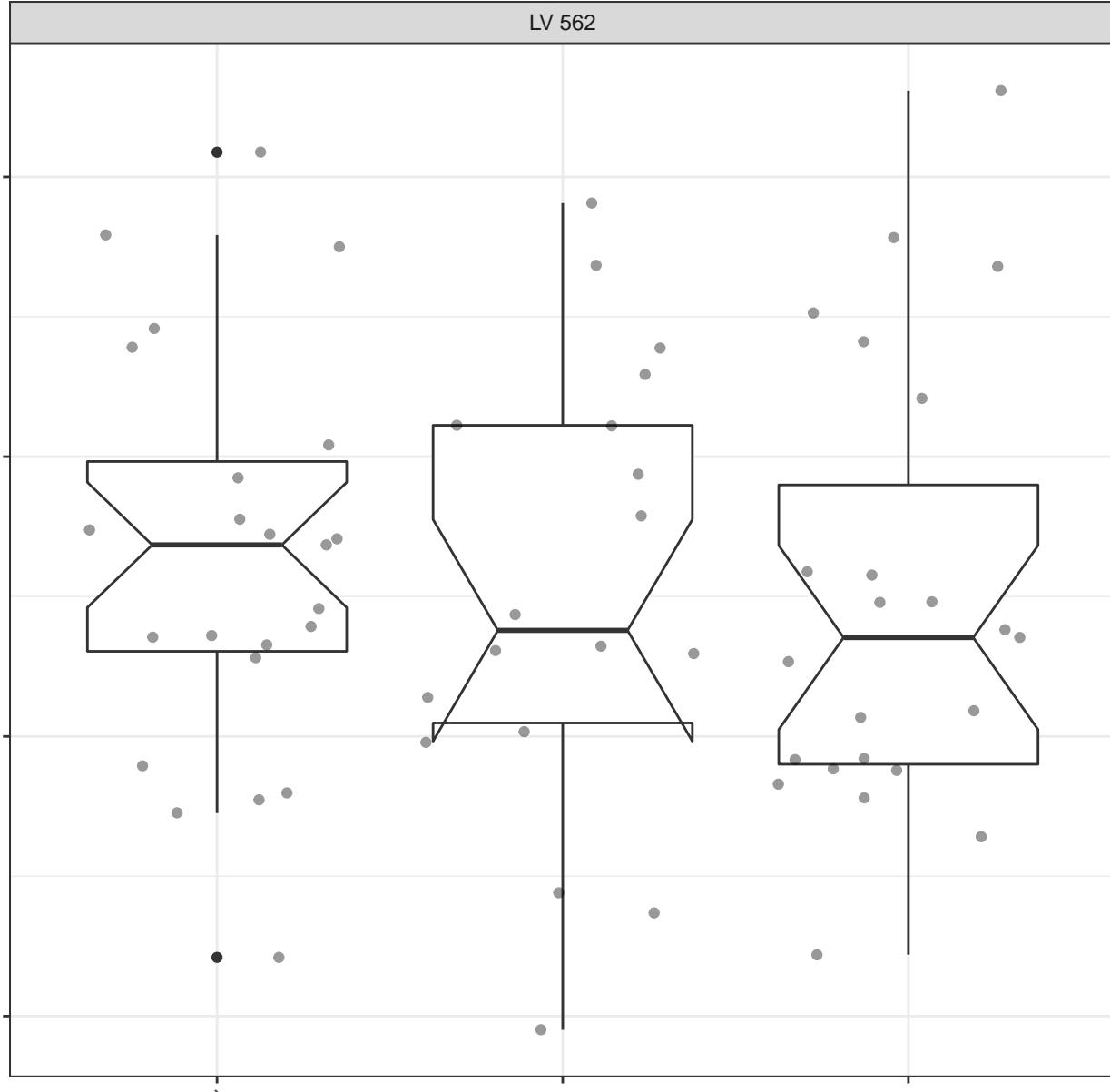
0.00

Control

GPA\_signature

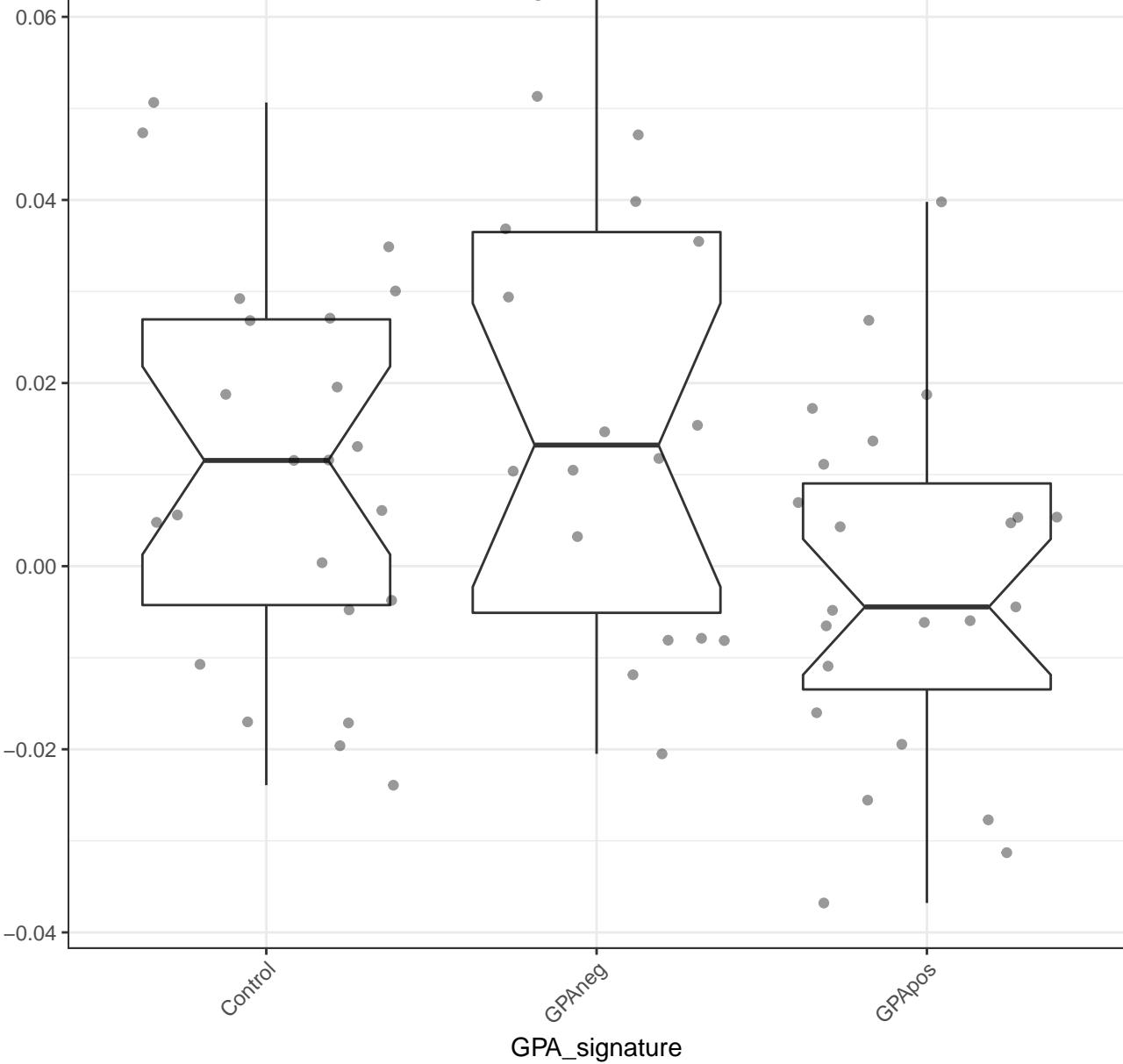
GPAneg

GPAPos

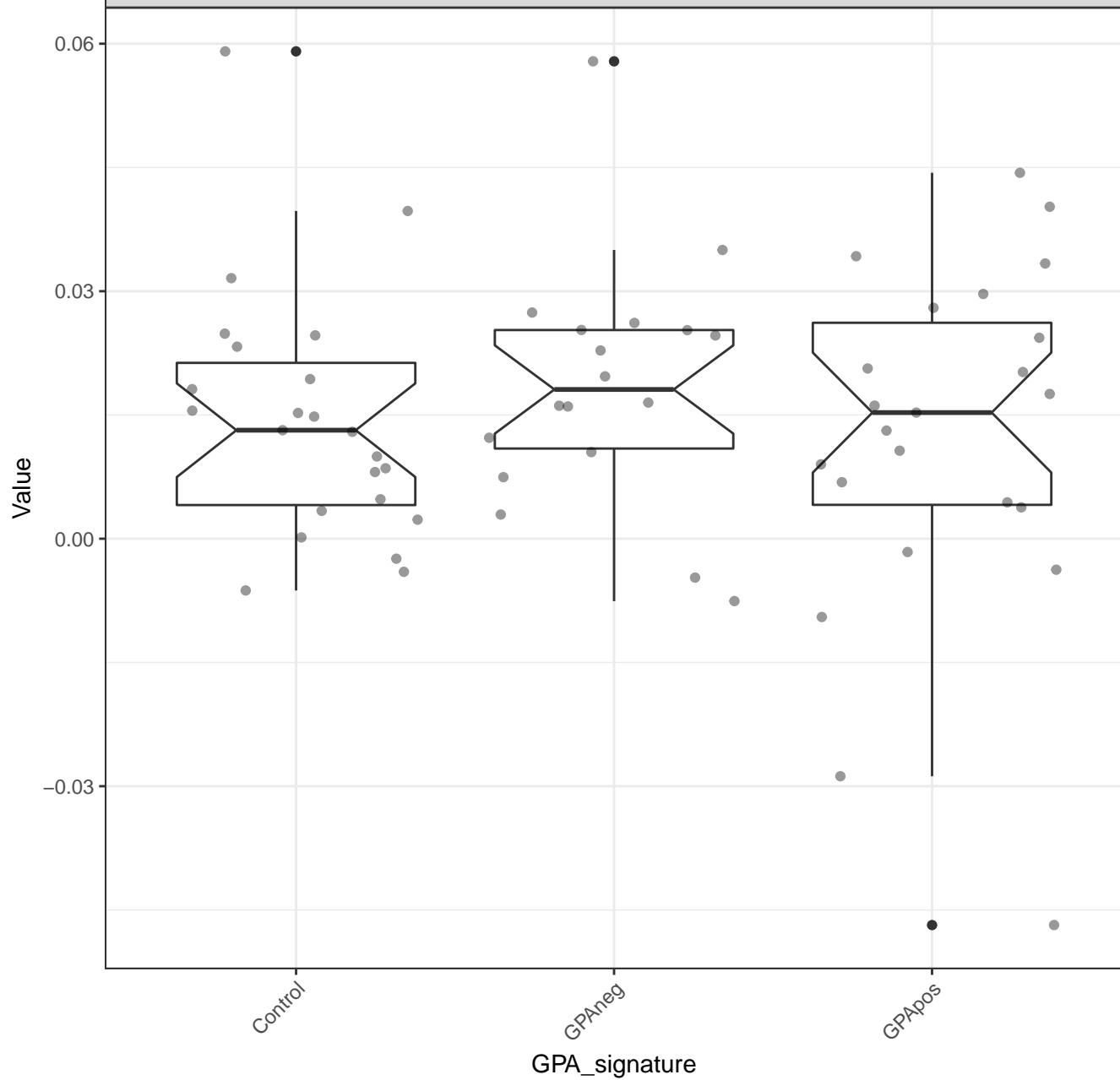


LV 563

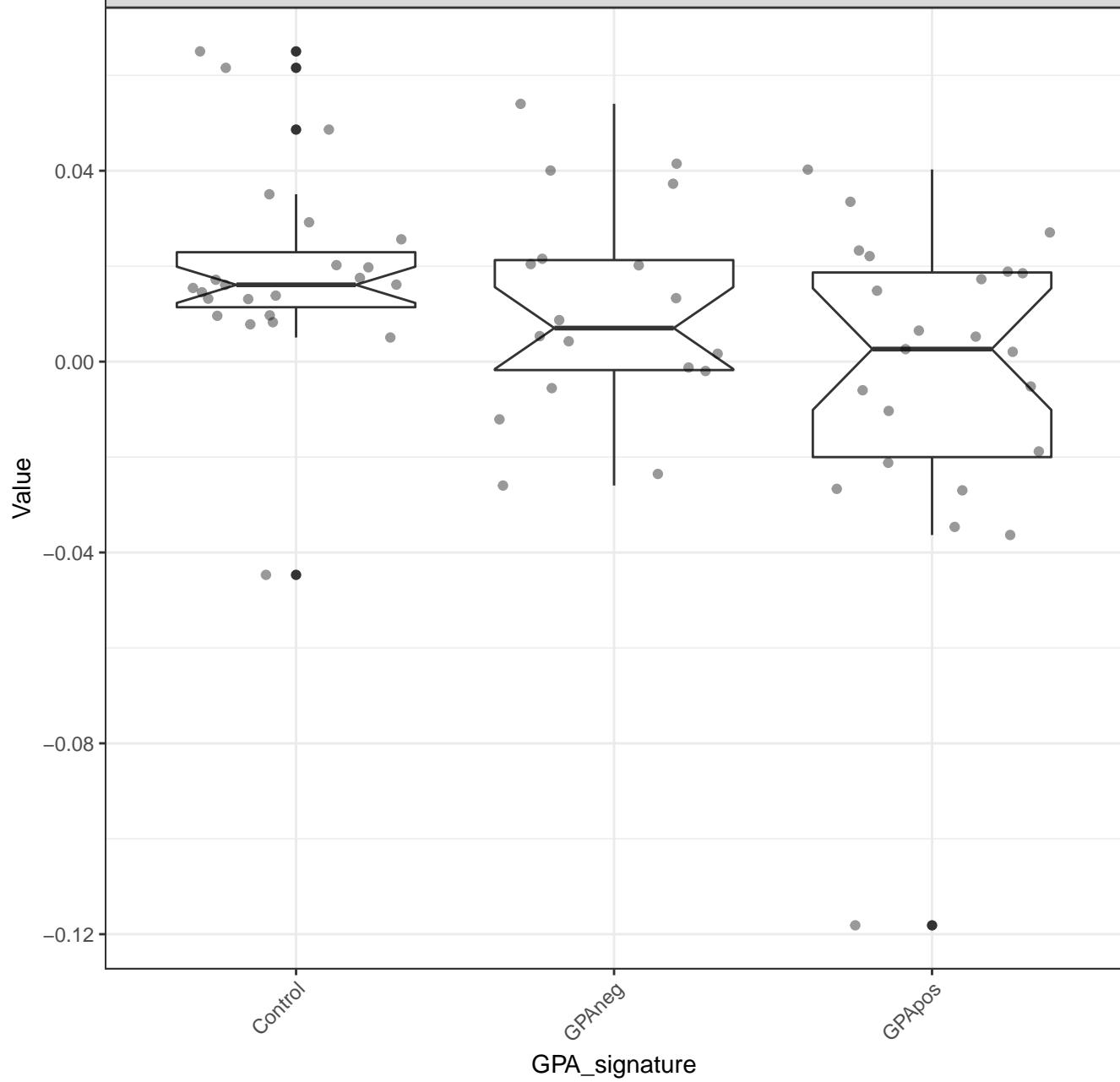
Value



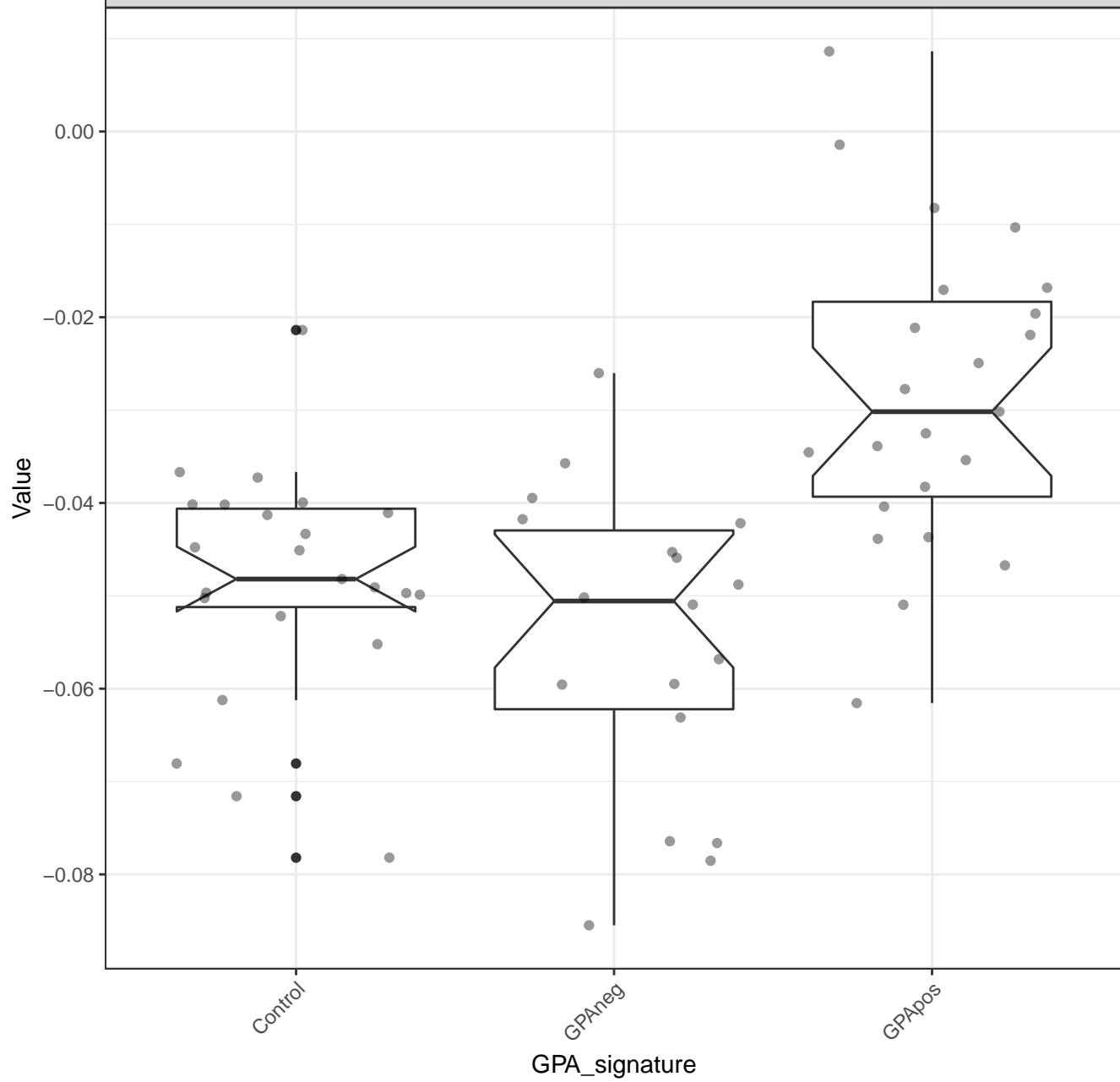
LV 564

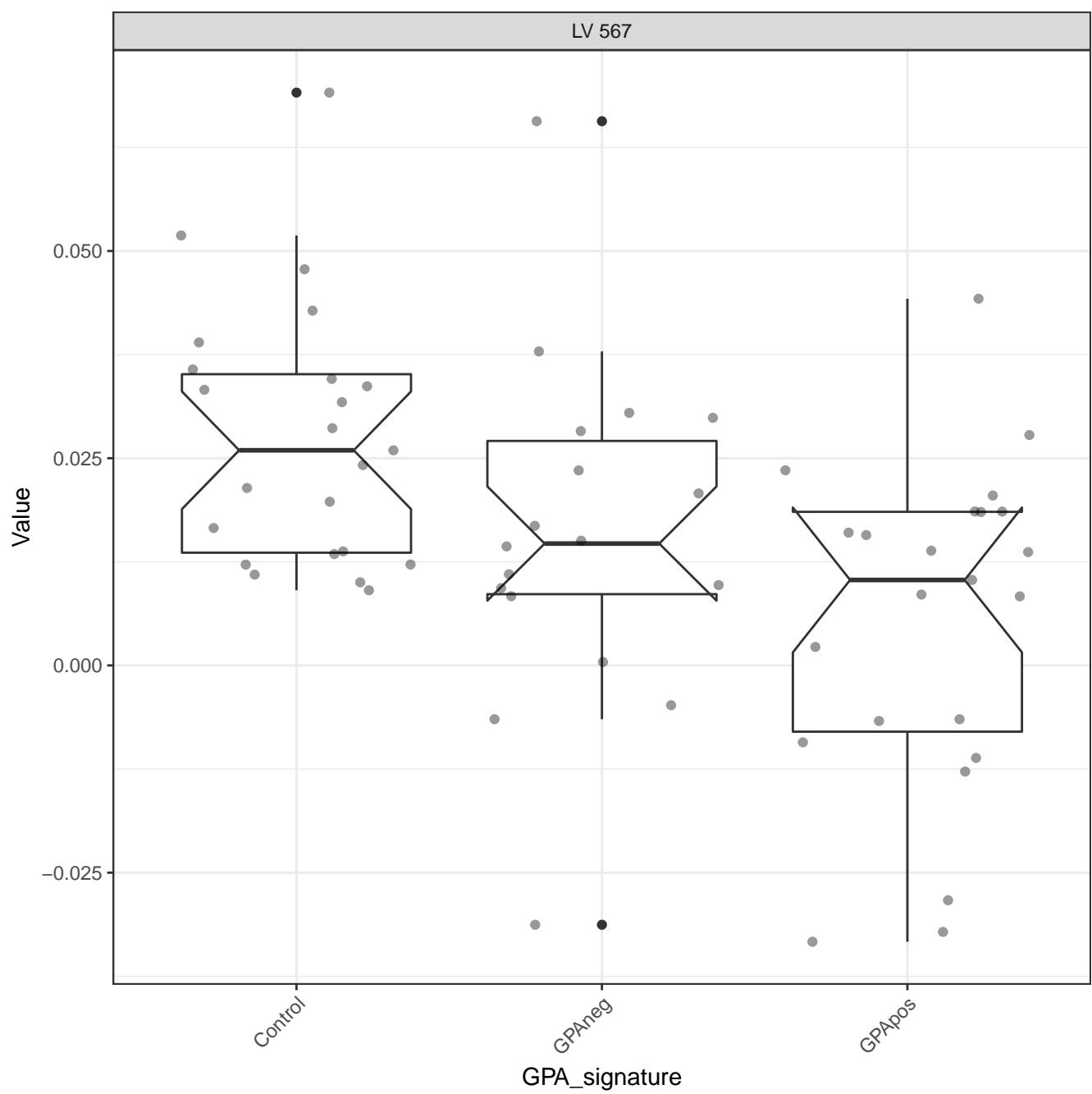


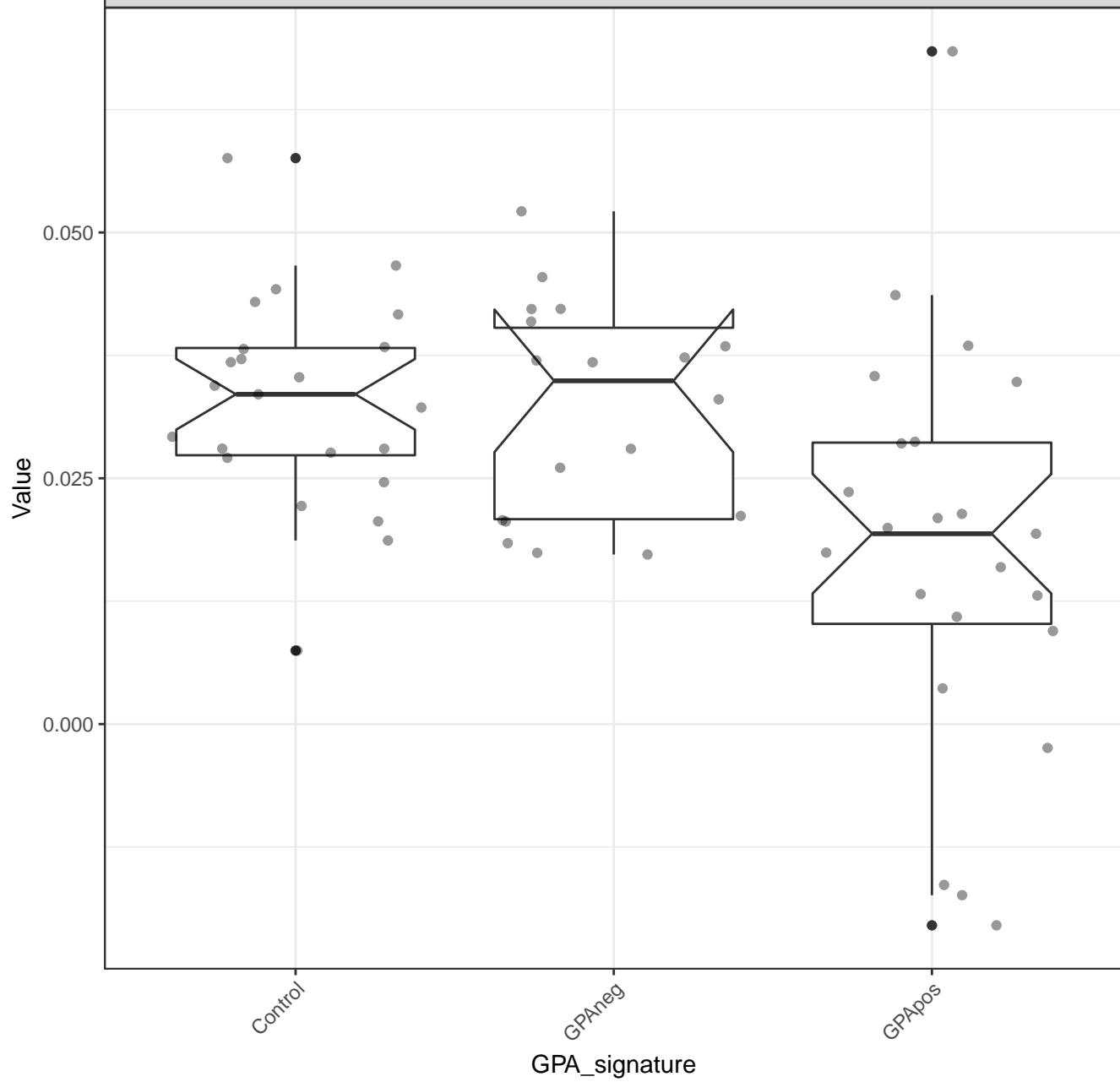
LV 565



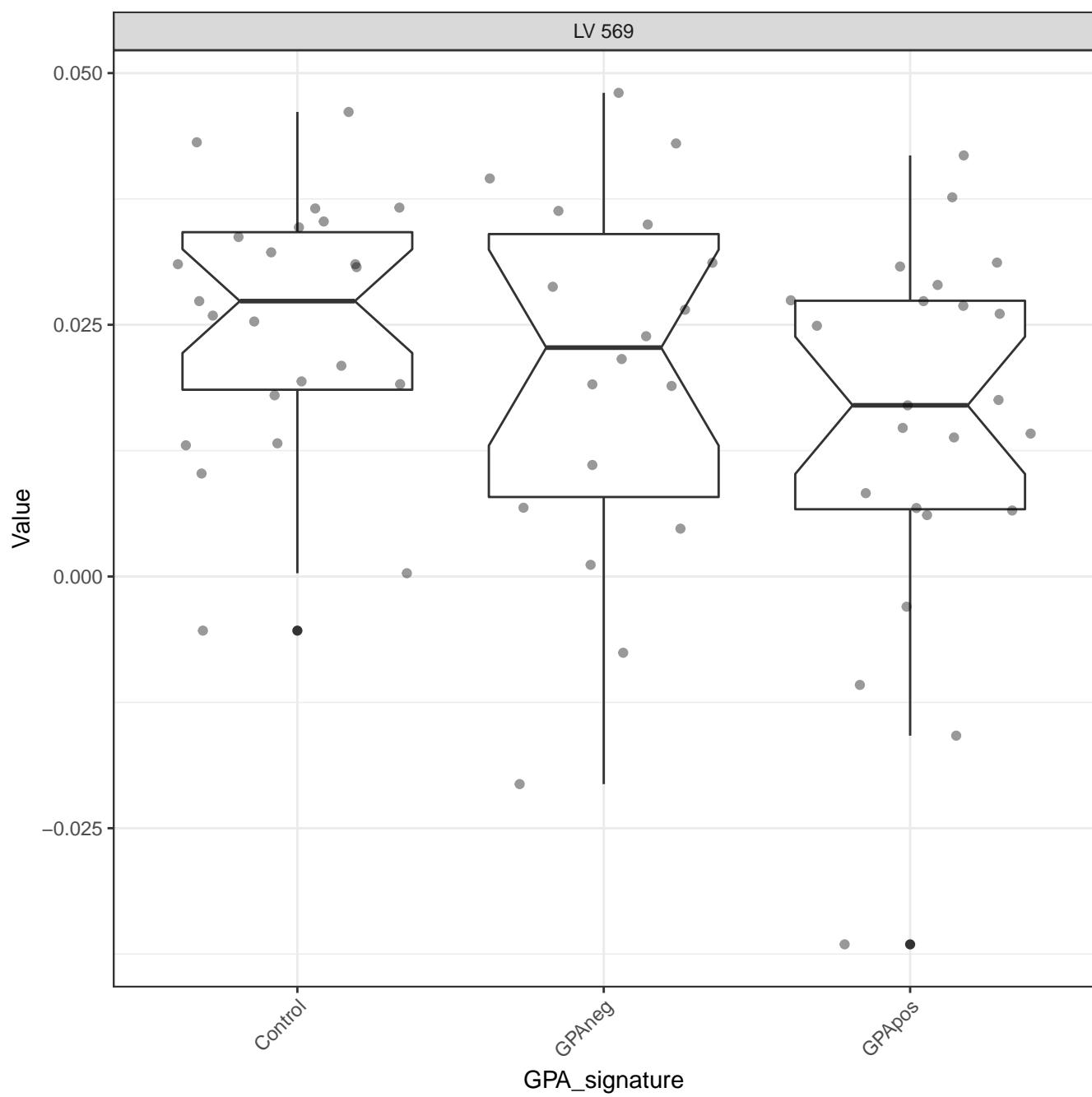
LV 566



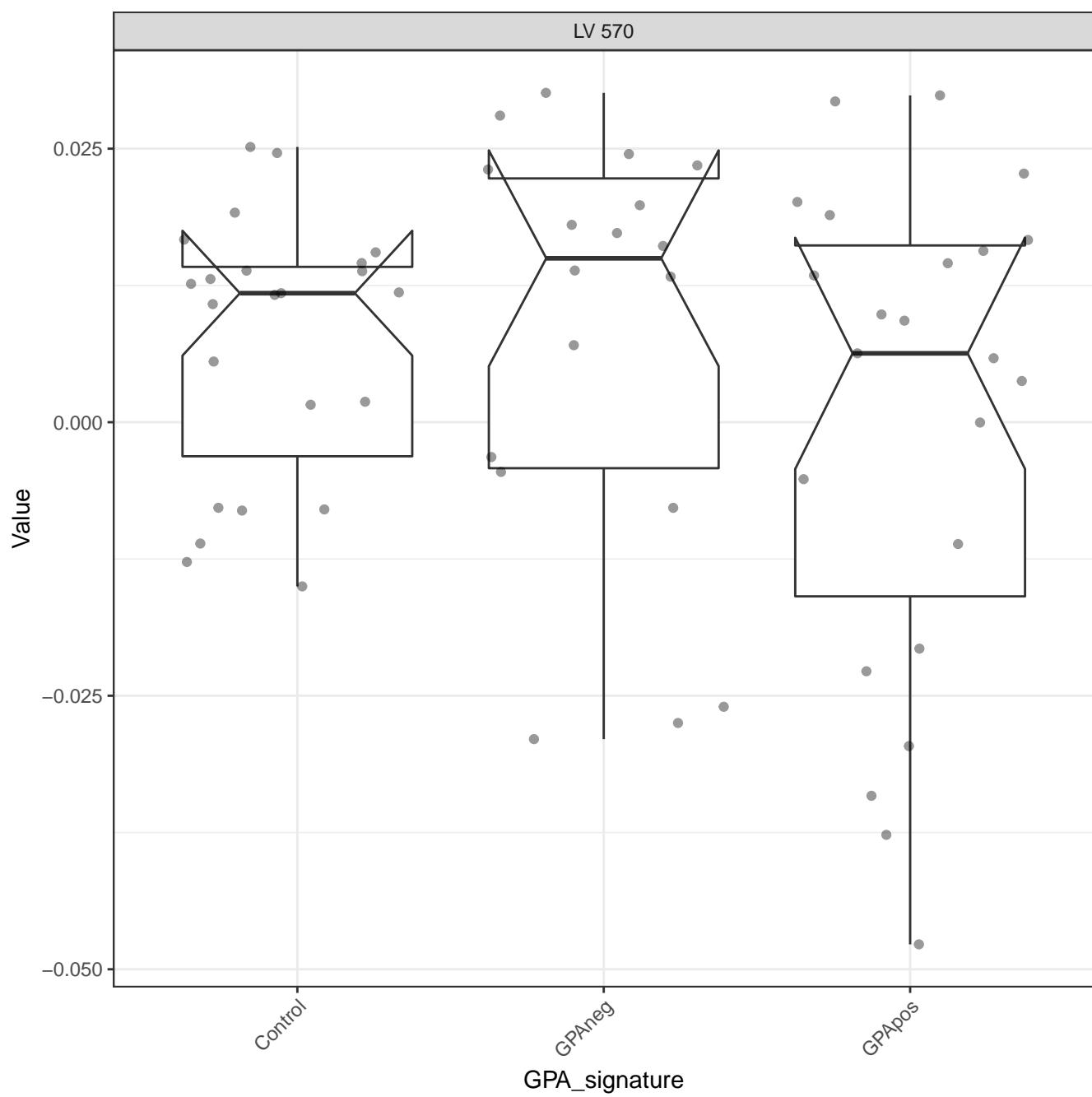


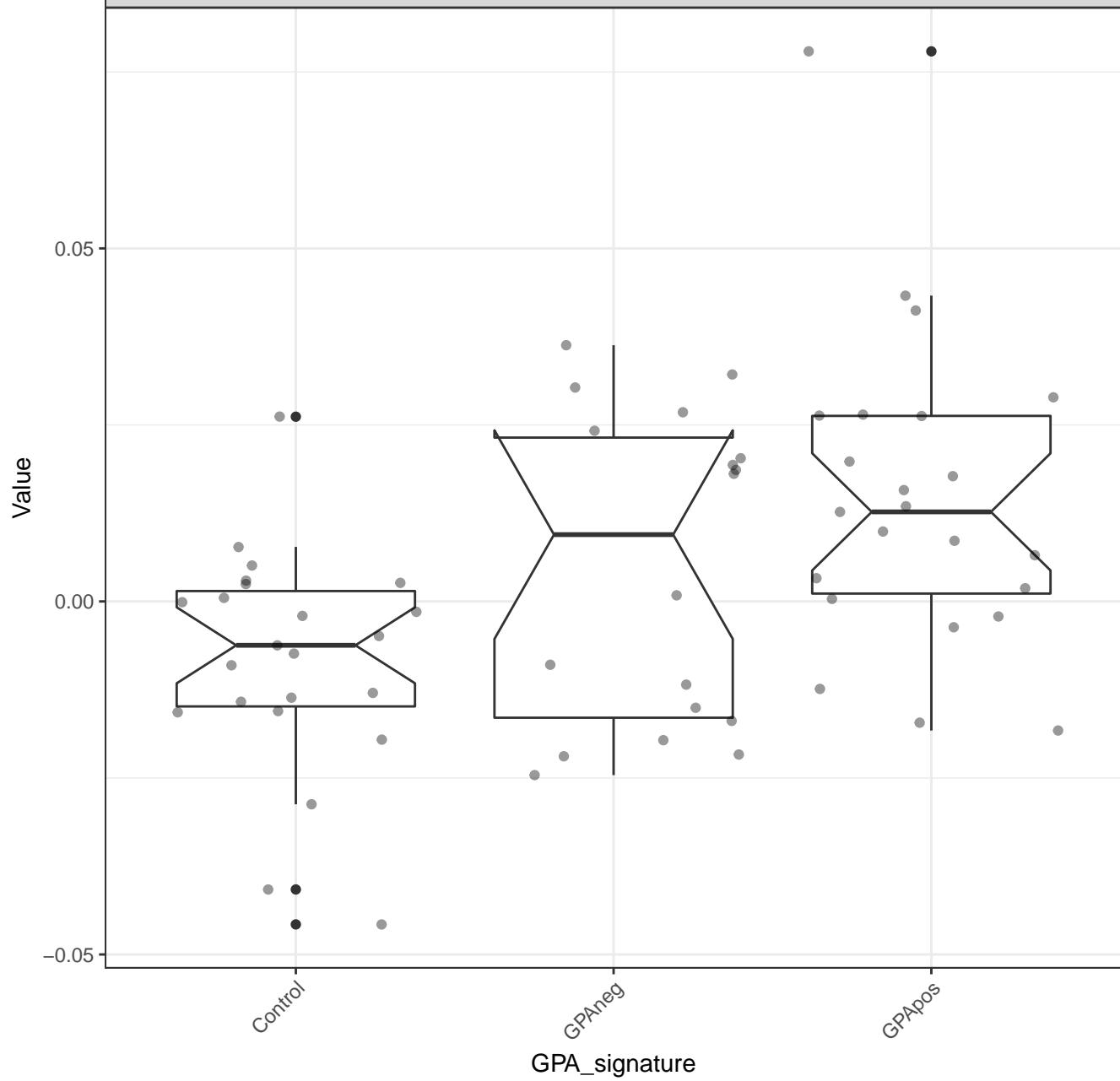


LV 569



LV 570





## LV 572

Value

0.050

0.025

0.000

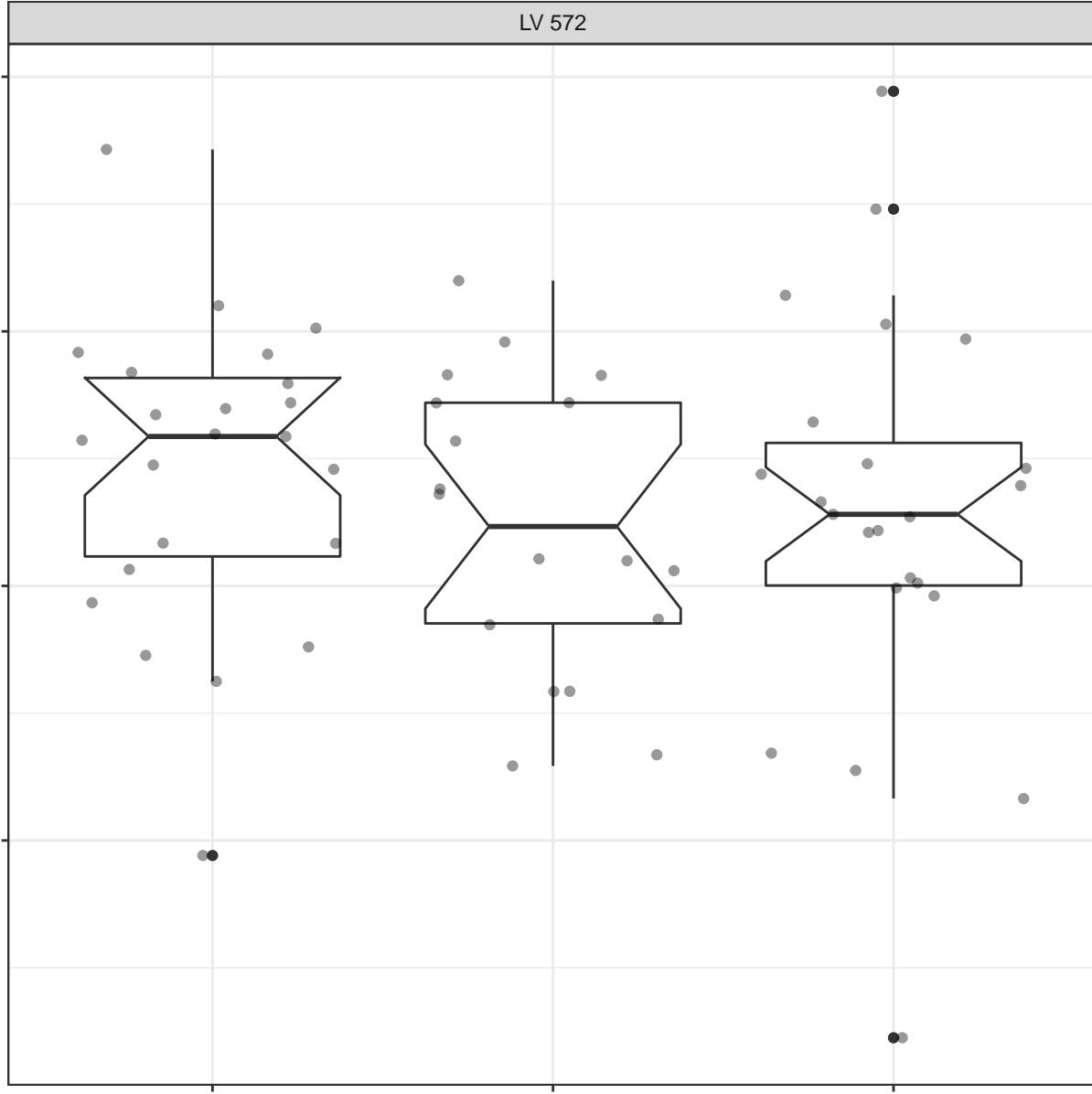
-0.025

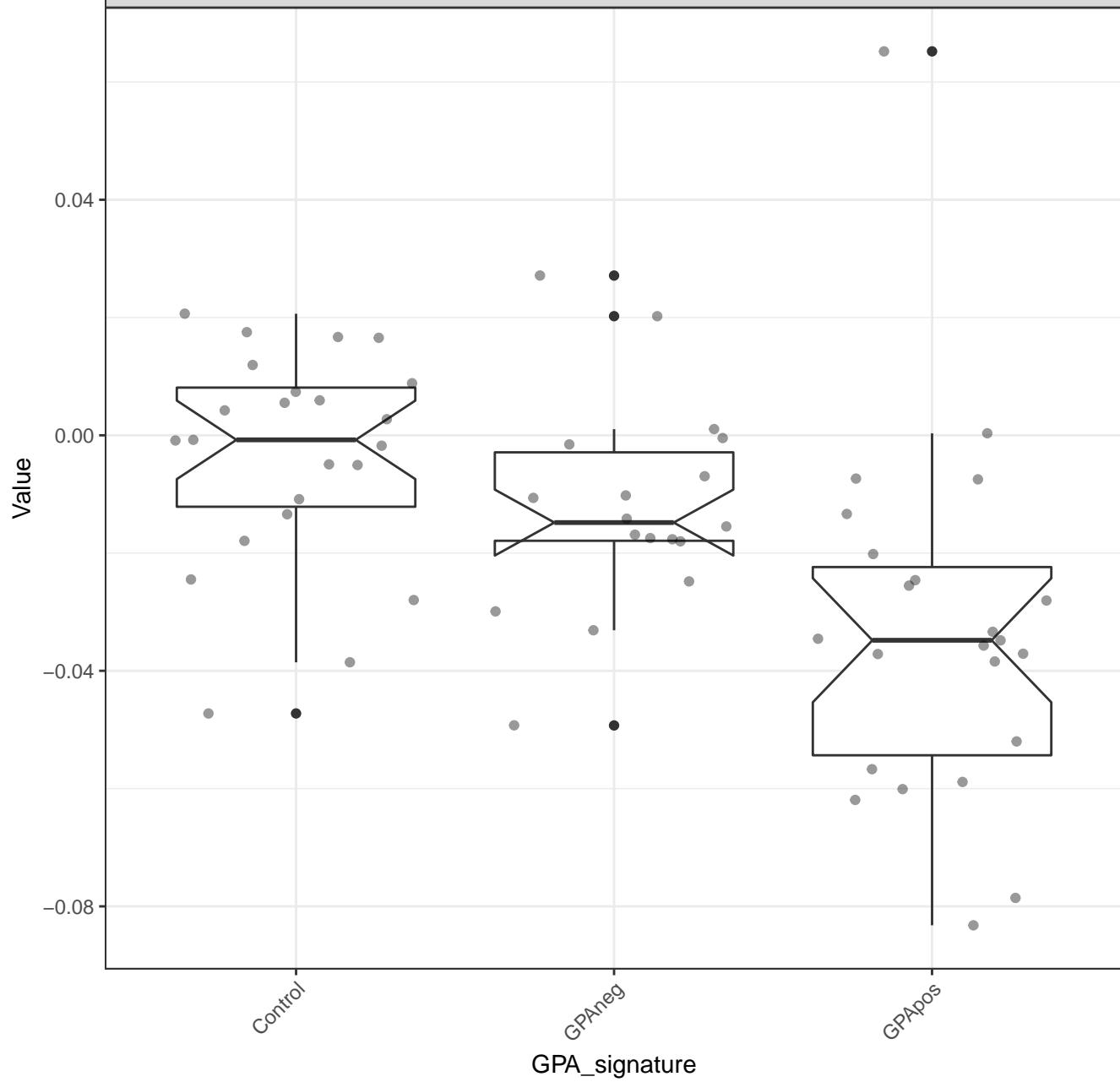
Control

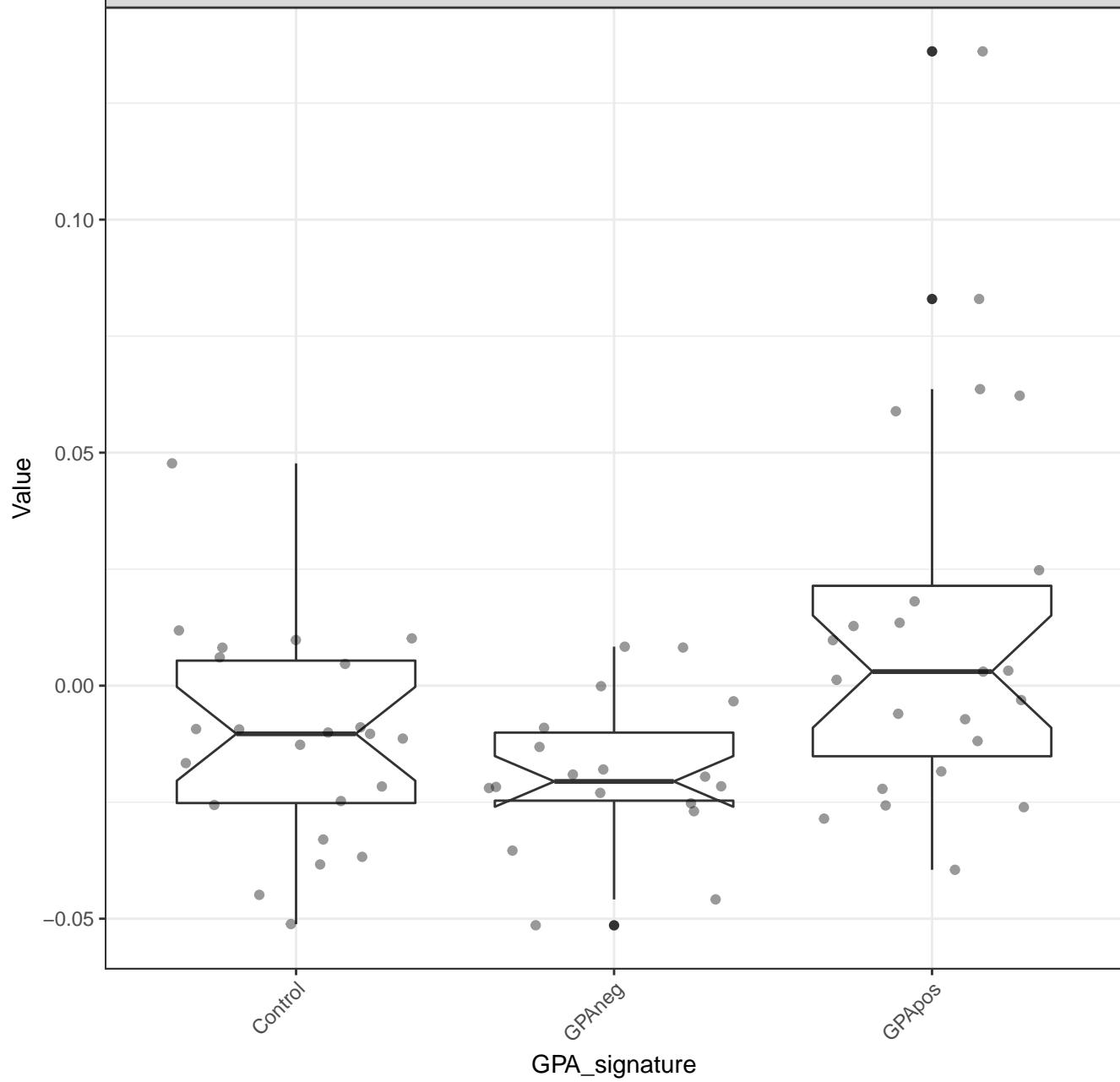
GPAneg

GPAPos

GPA\_signature







## LV 575

Value

0.050

0.025

0.000

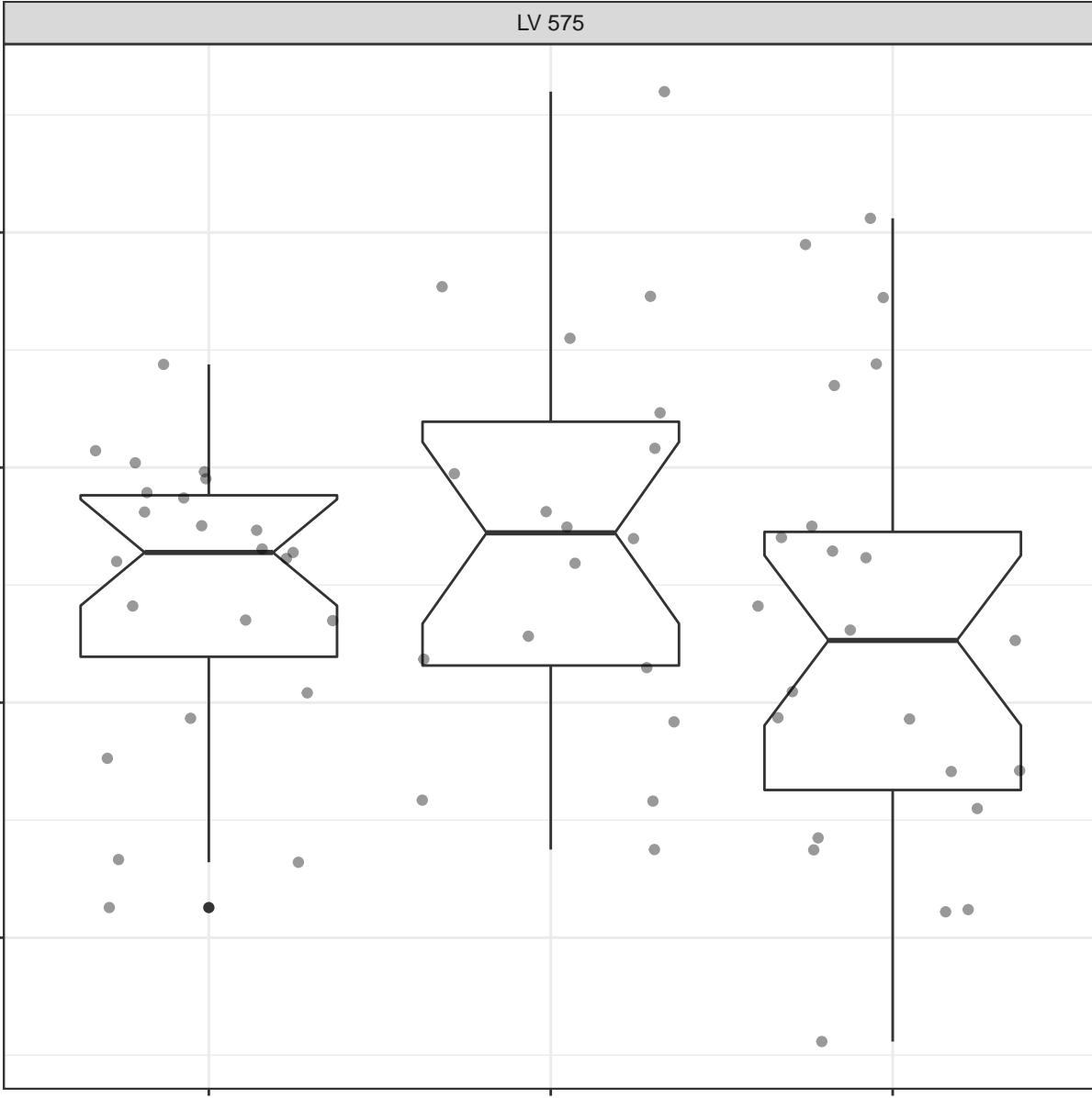
-0.025

Control

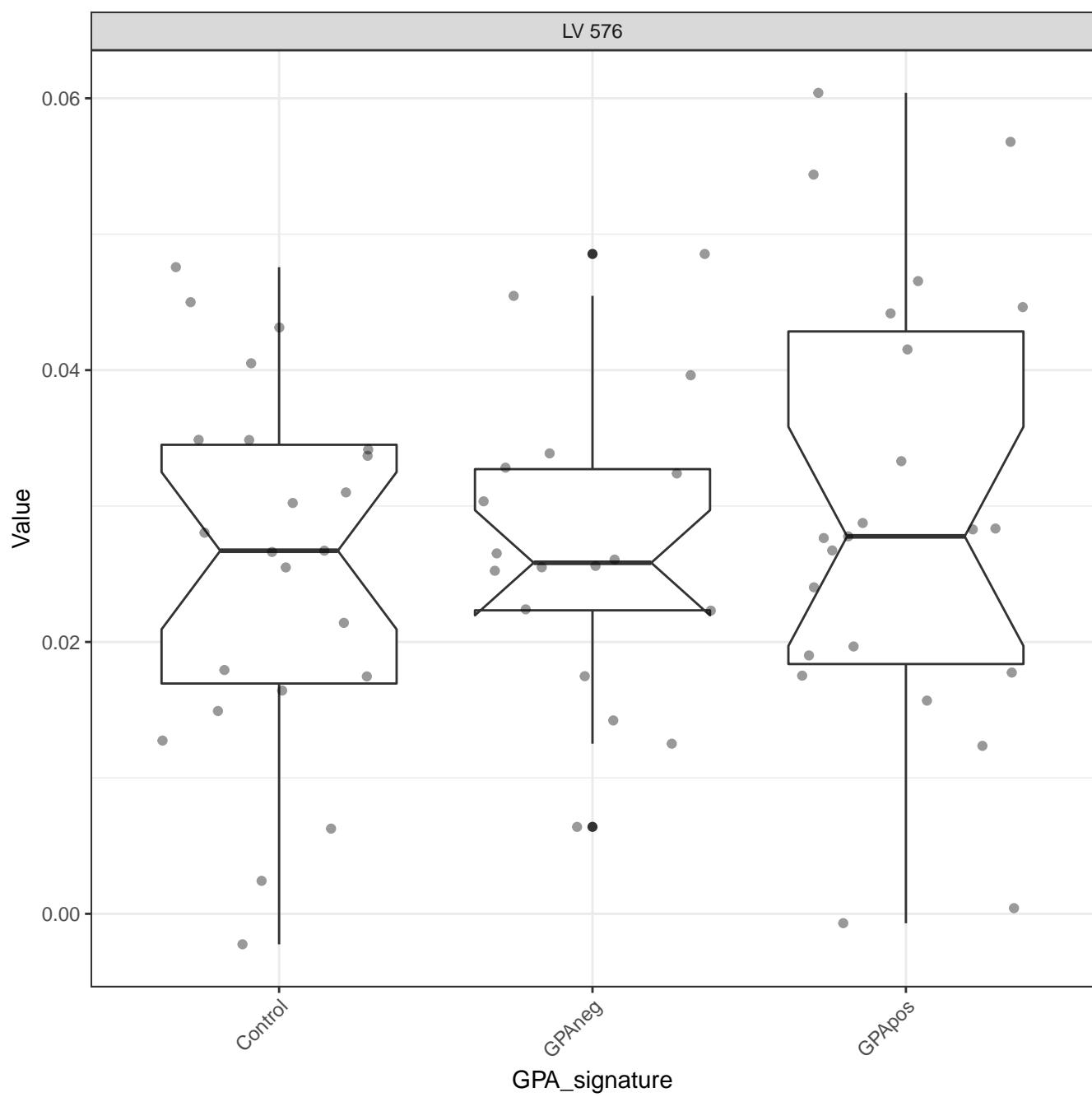
GPA\_signature

GPAneg

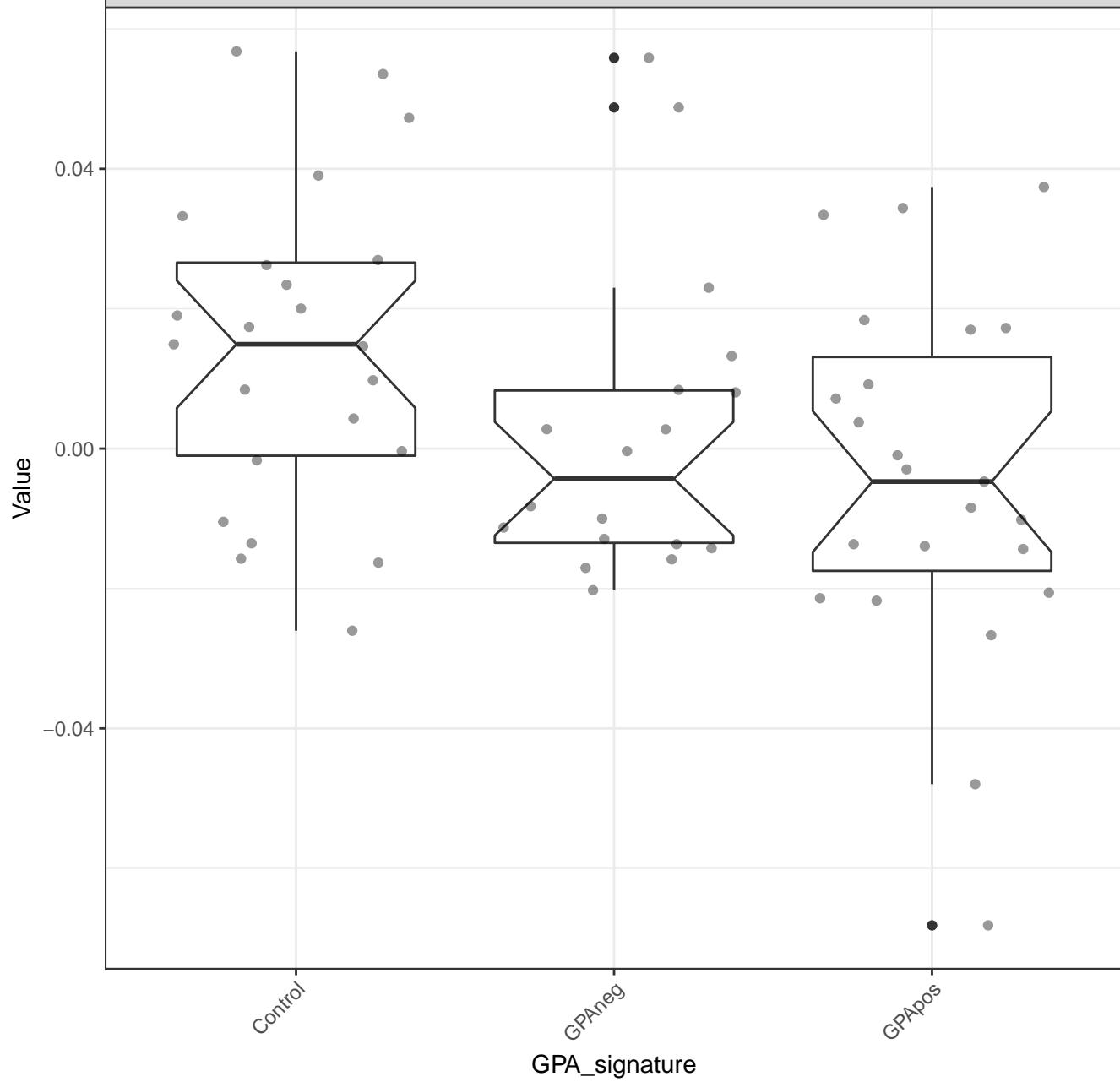
GPAPos



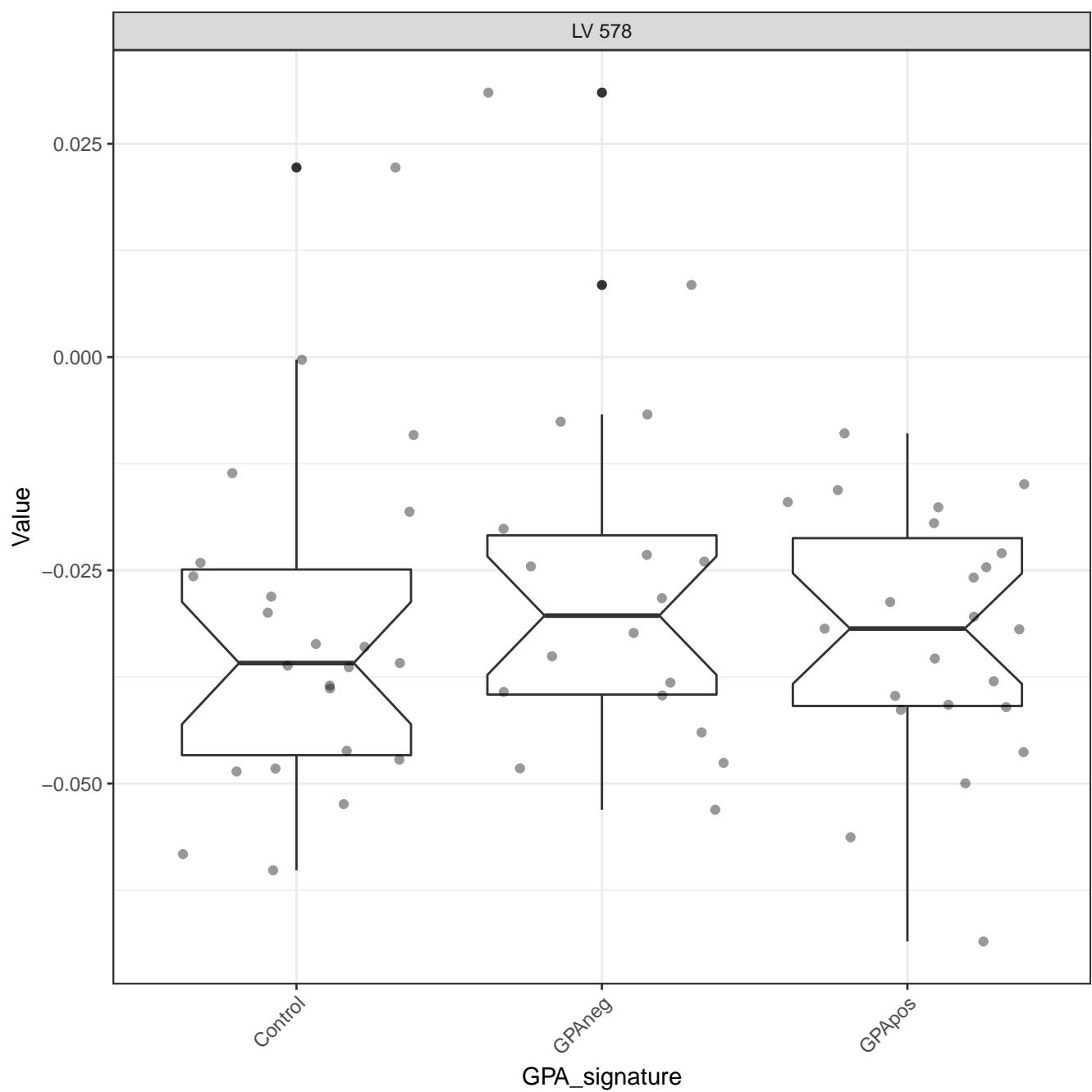
LV 576



LV 577

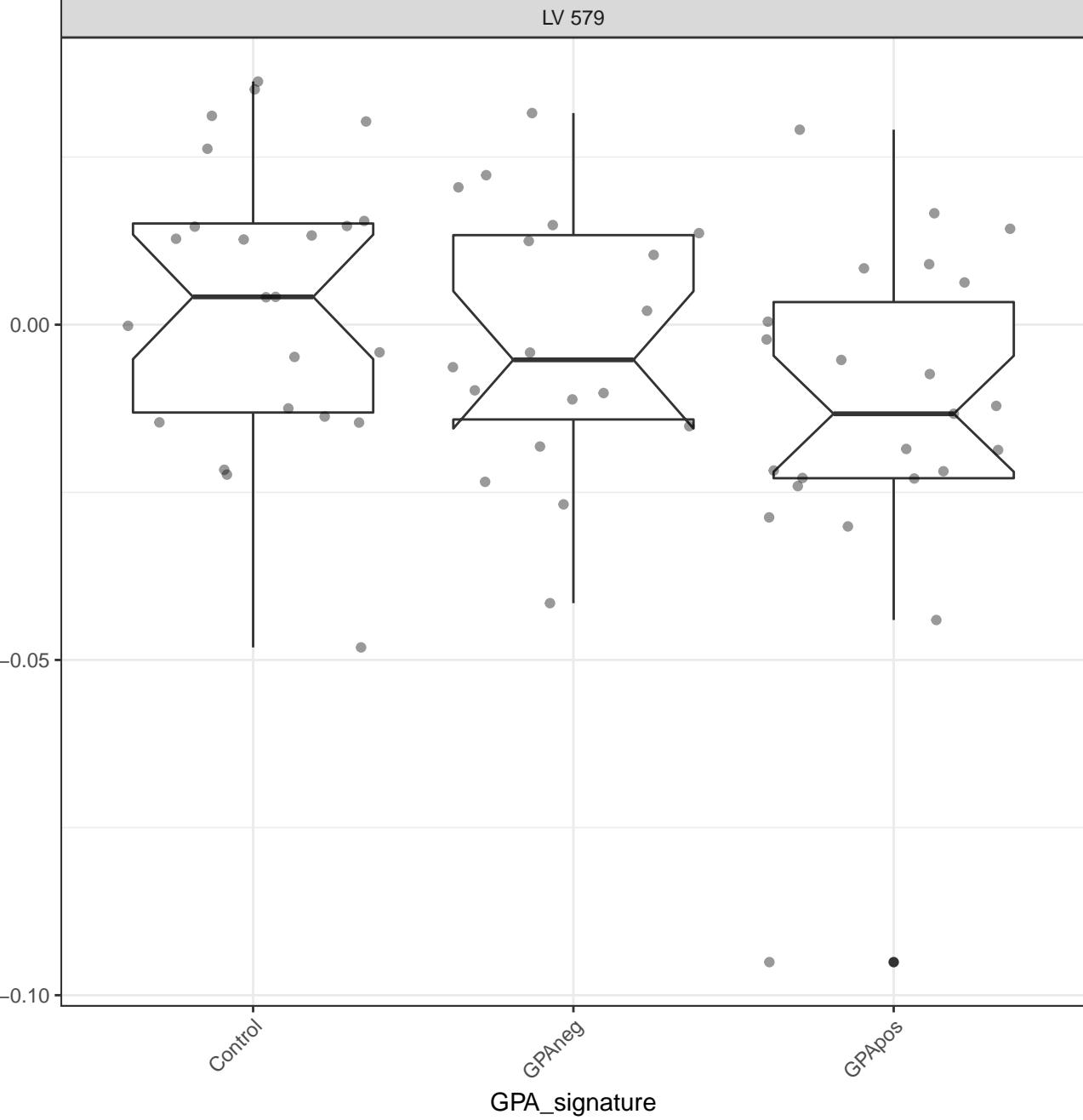


LV 578

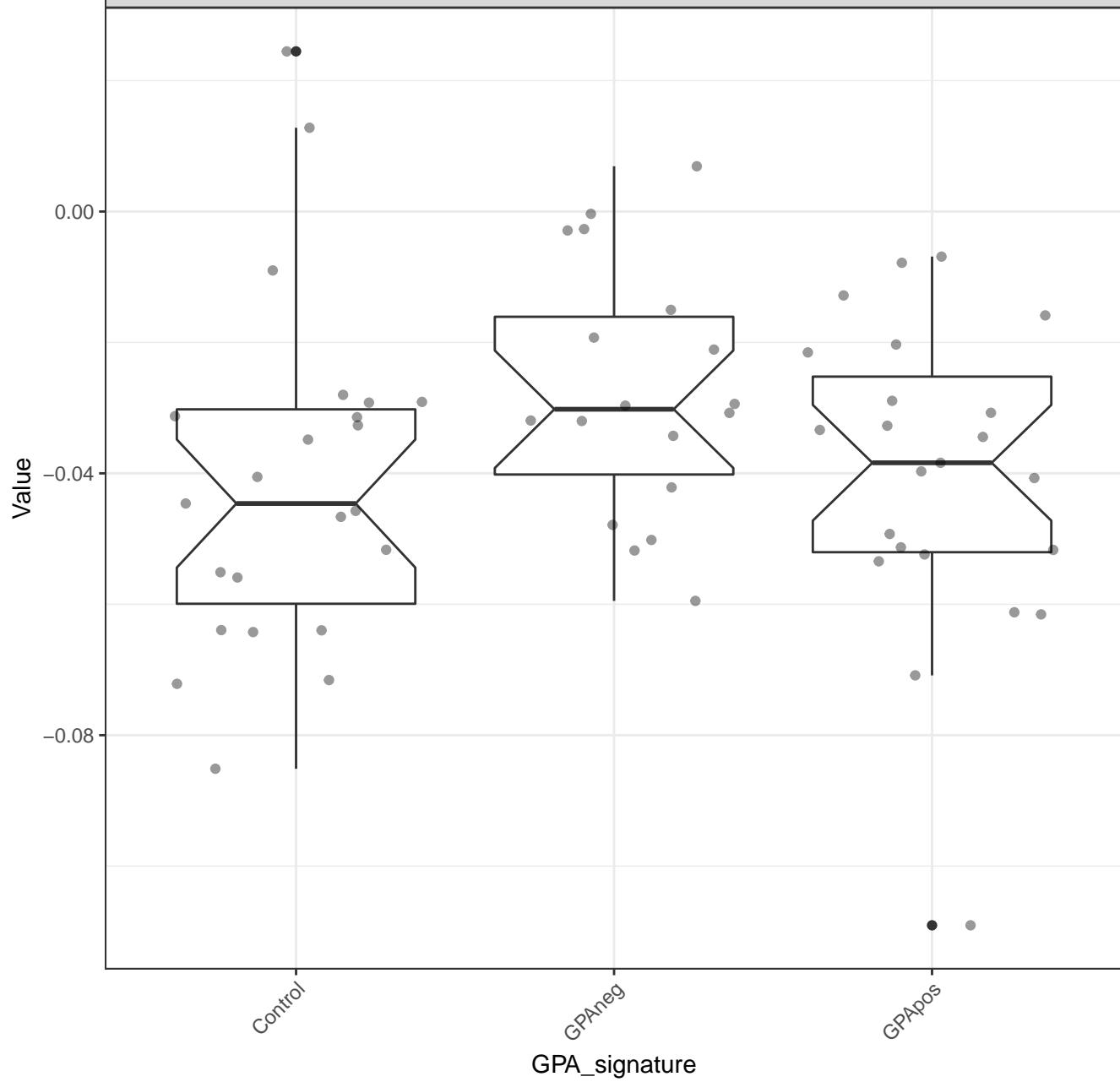


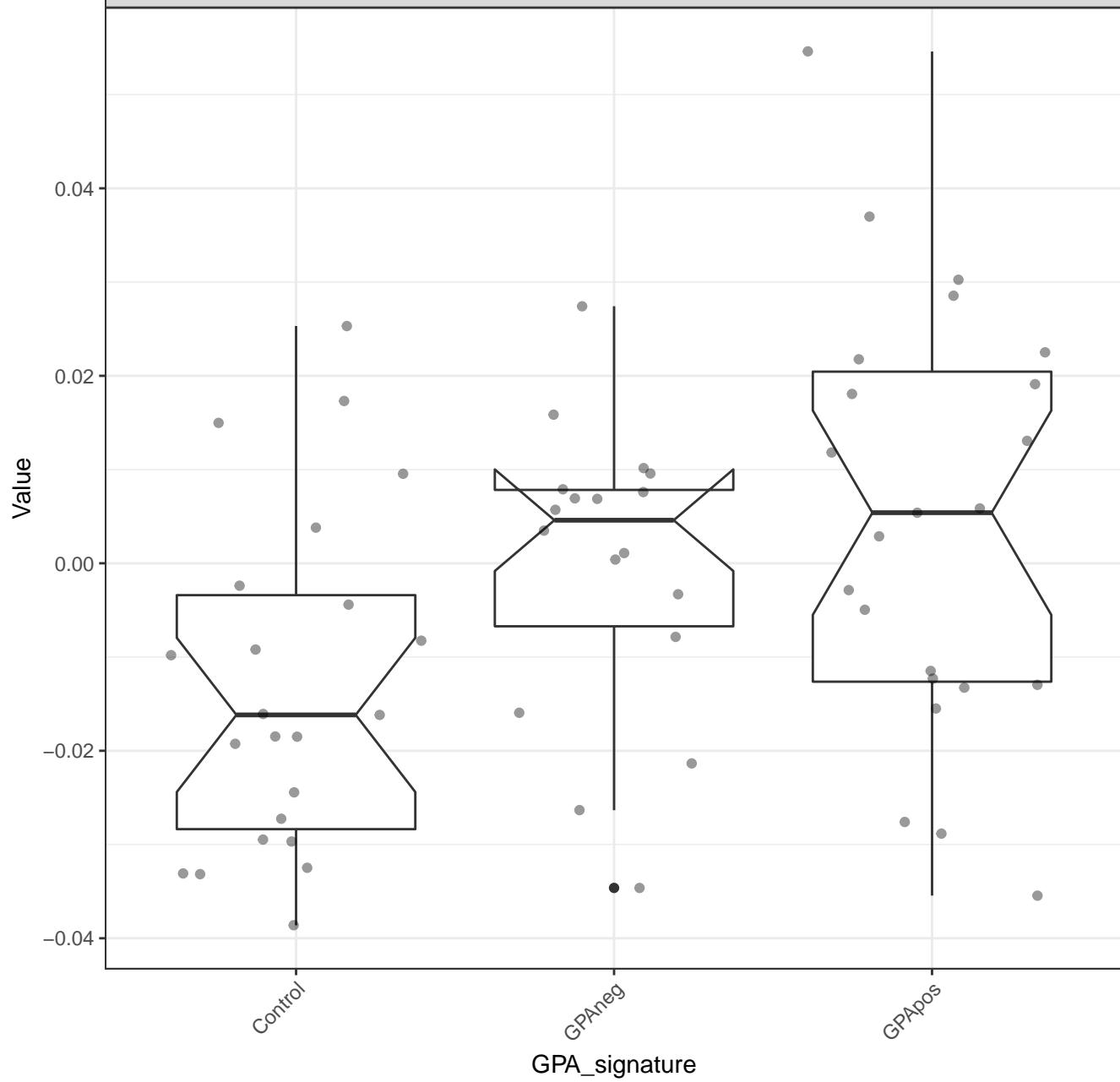
LV 579

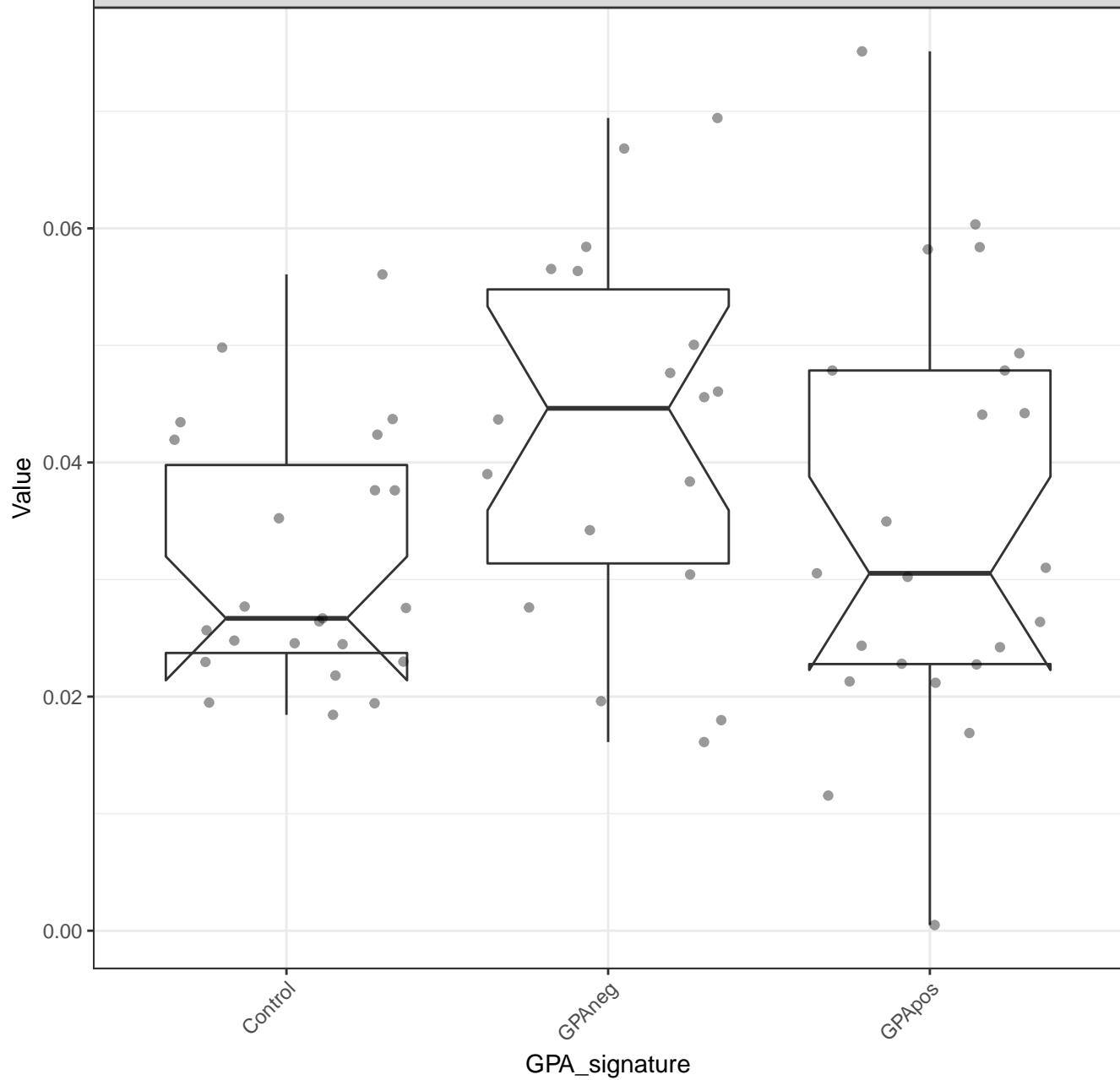
Value



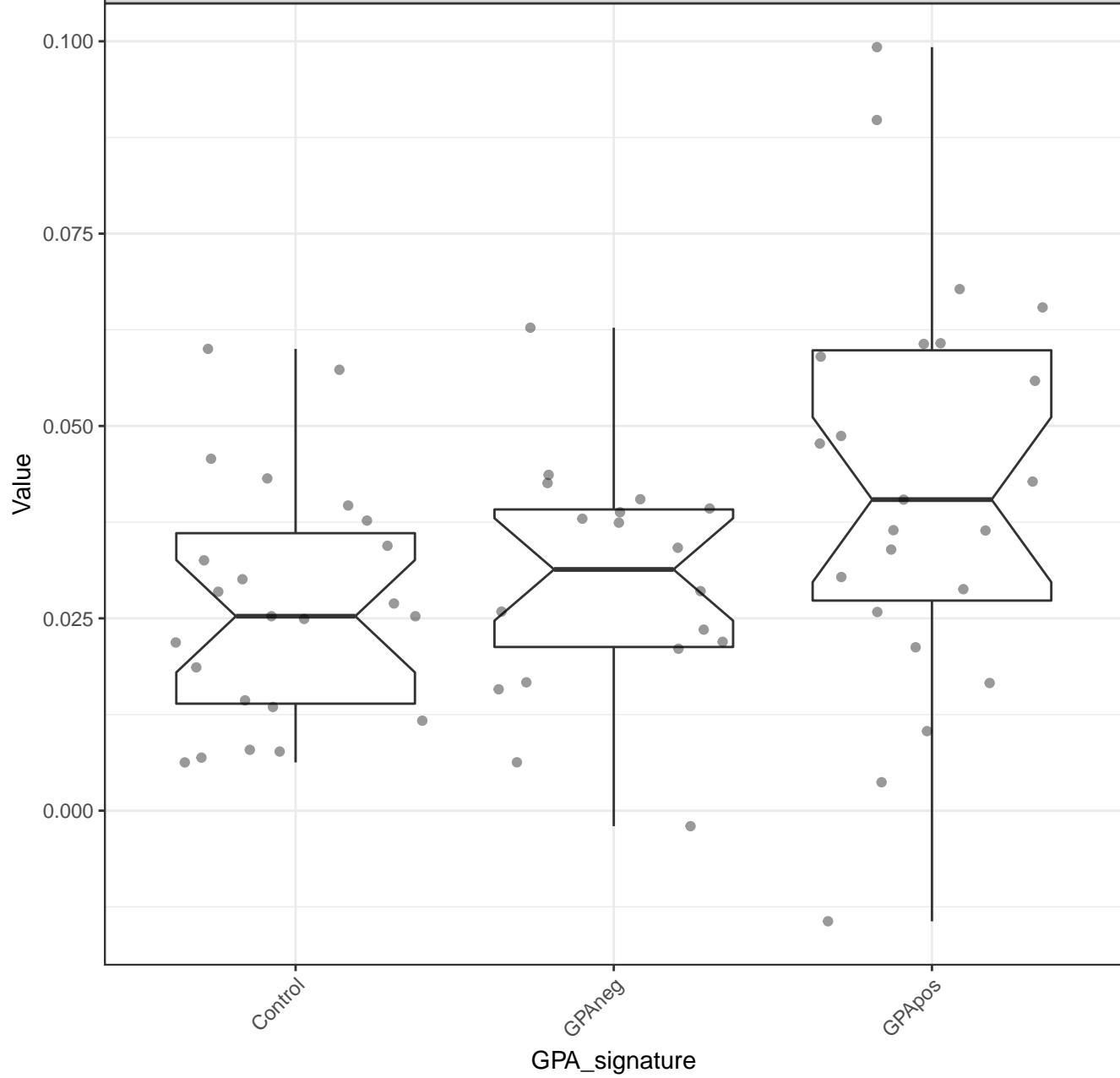
LV 580



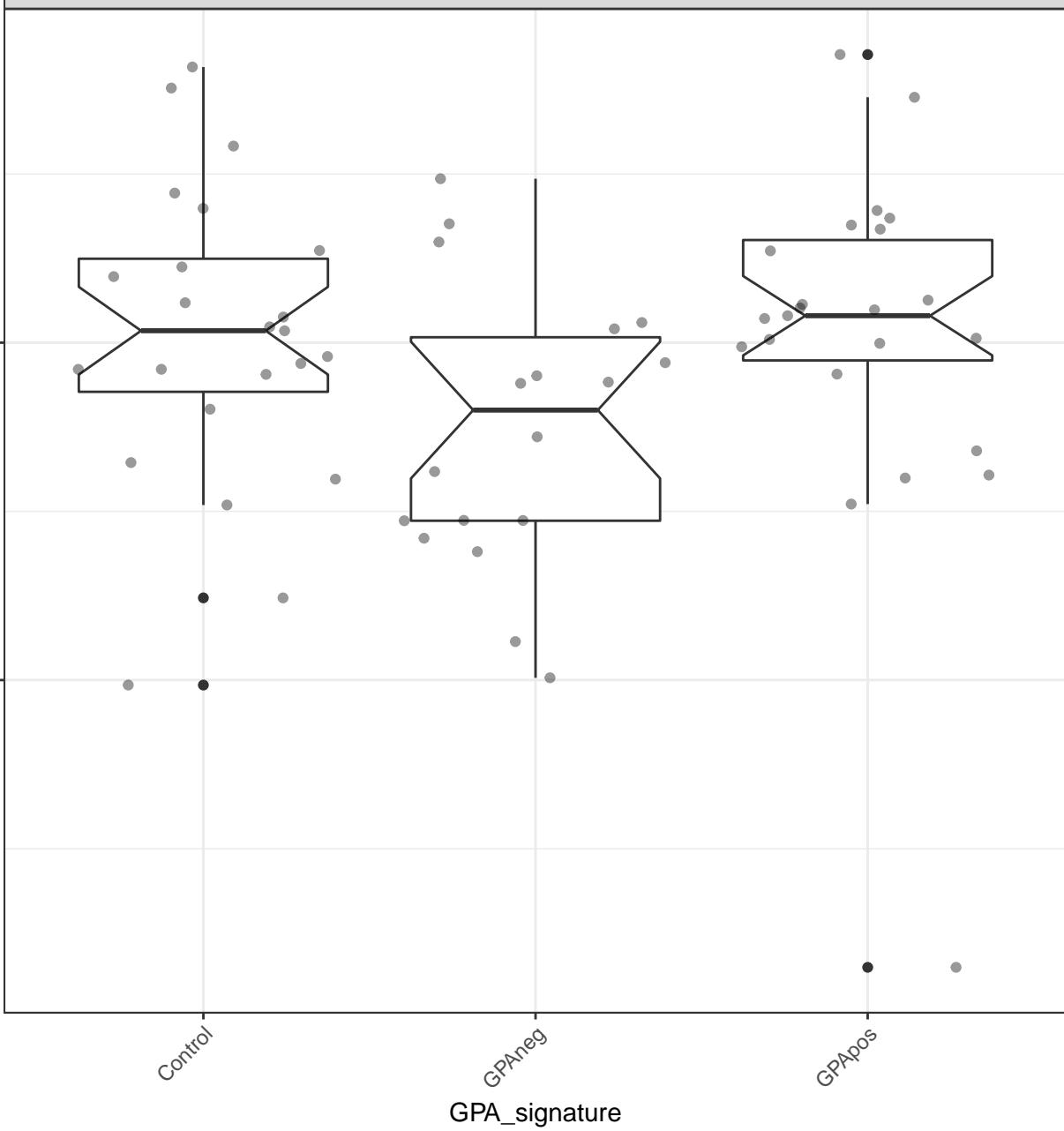




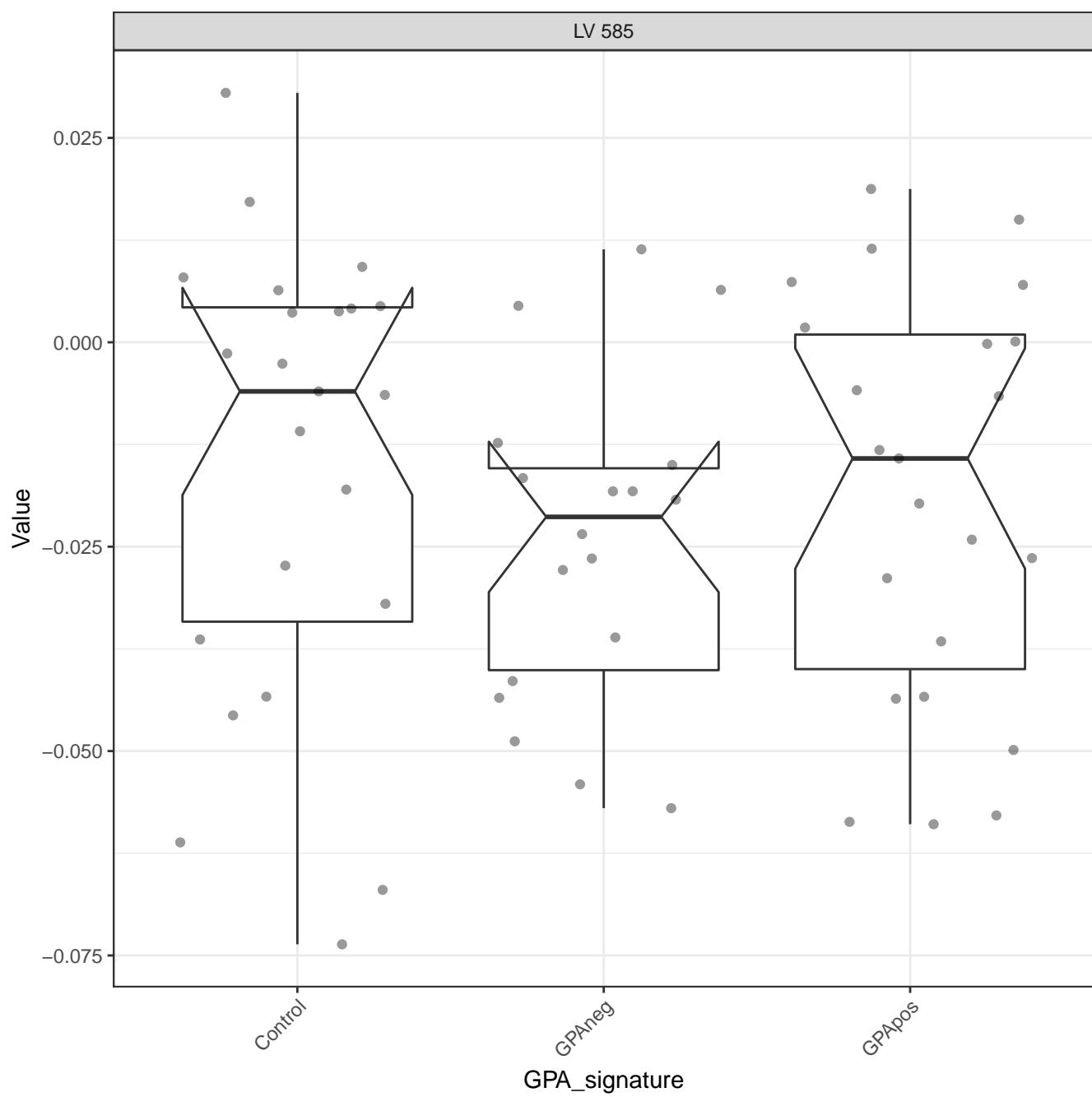
## 583,MIPS\_39S\_RIBOSOMAL\_SUBUNIT MITOCHONDRIAL



Value



LV 585



LV 586

Value

0.075

0.050

0.025

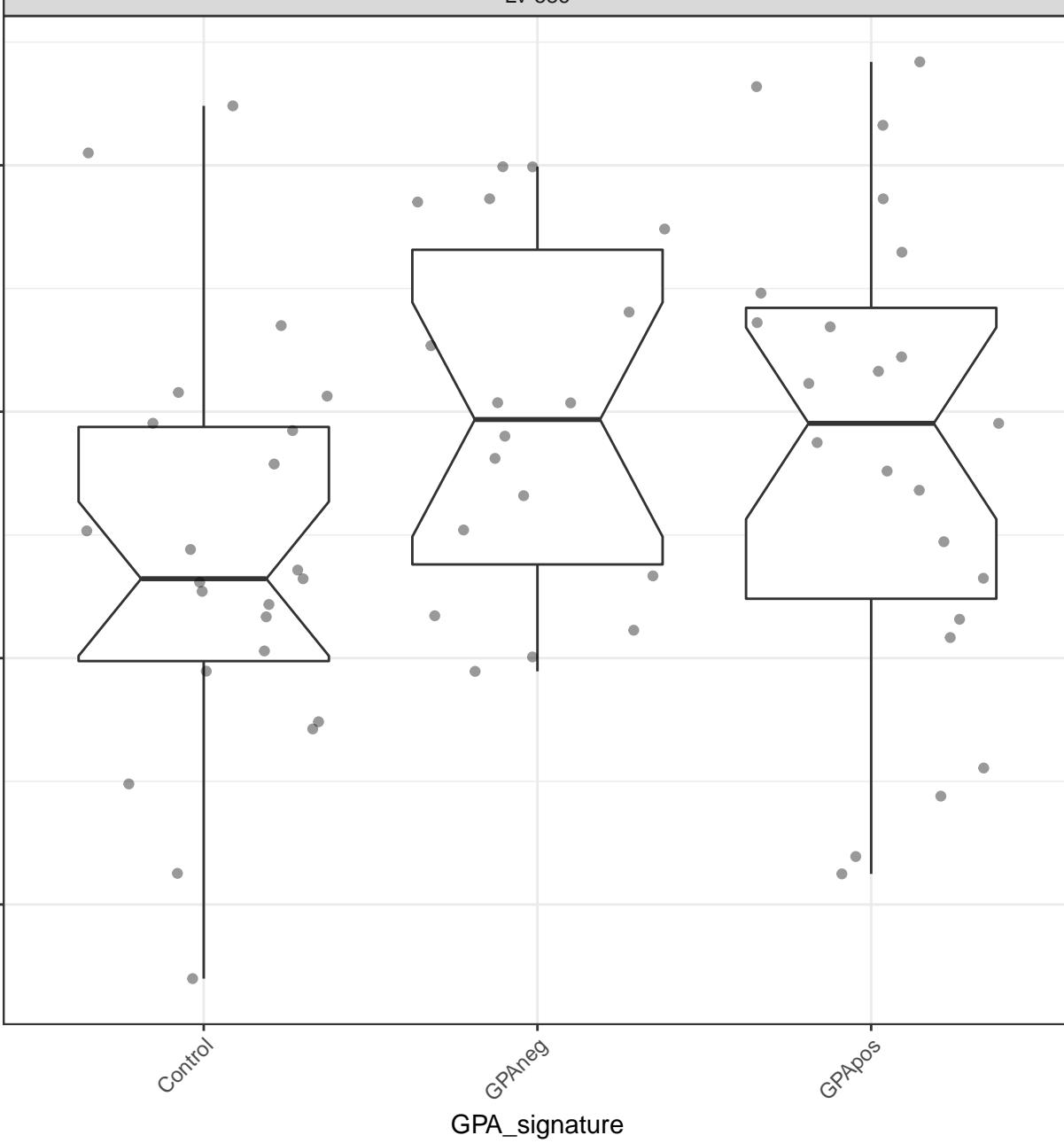
0.000

Control

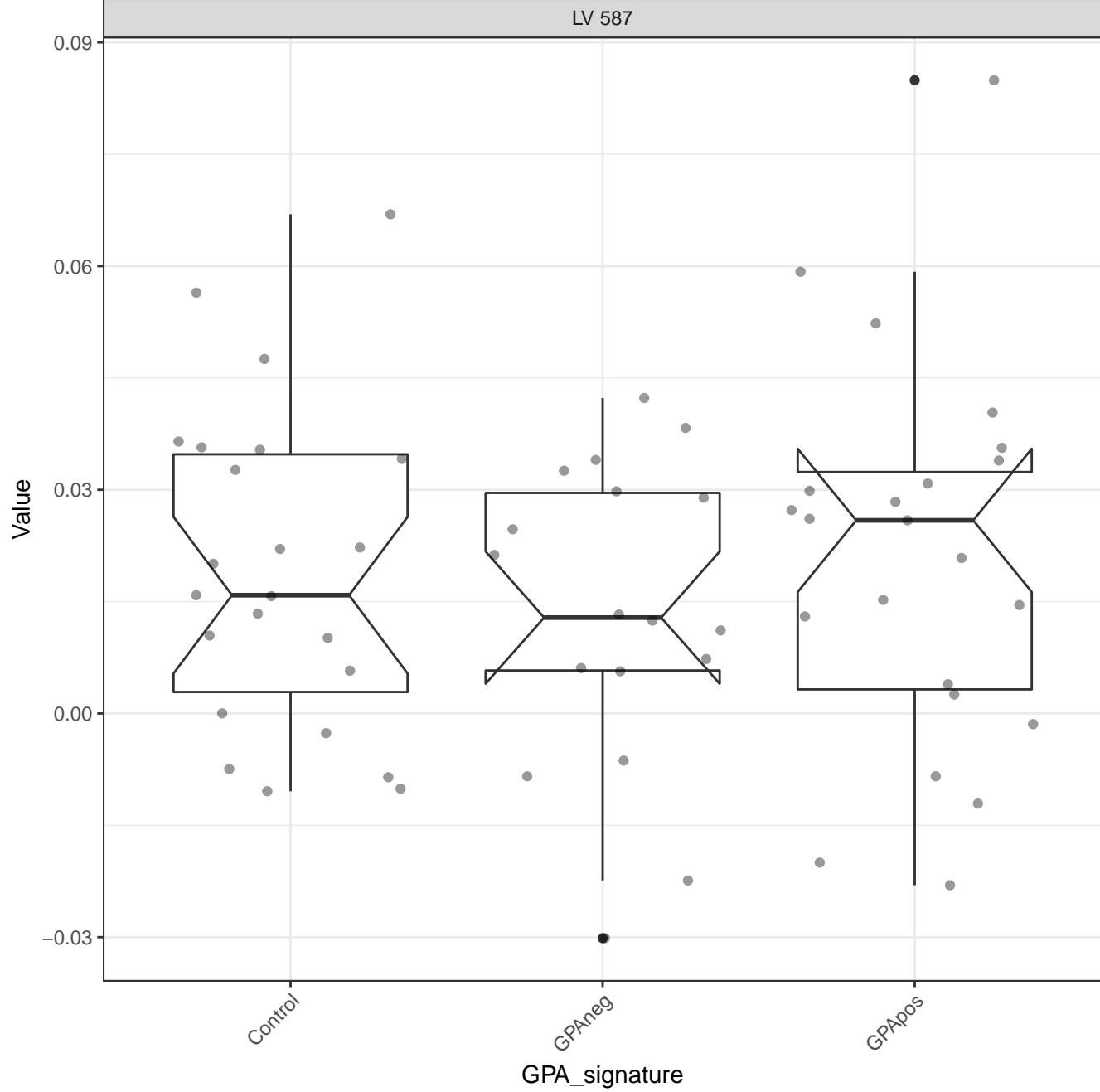
GPAneg

GPApos

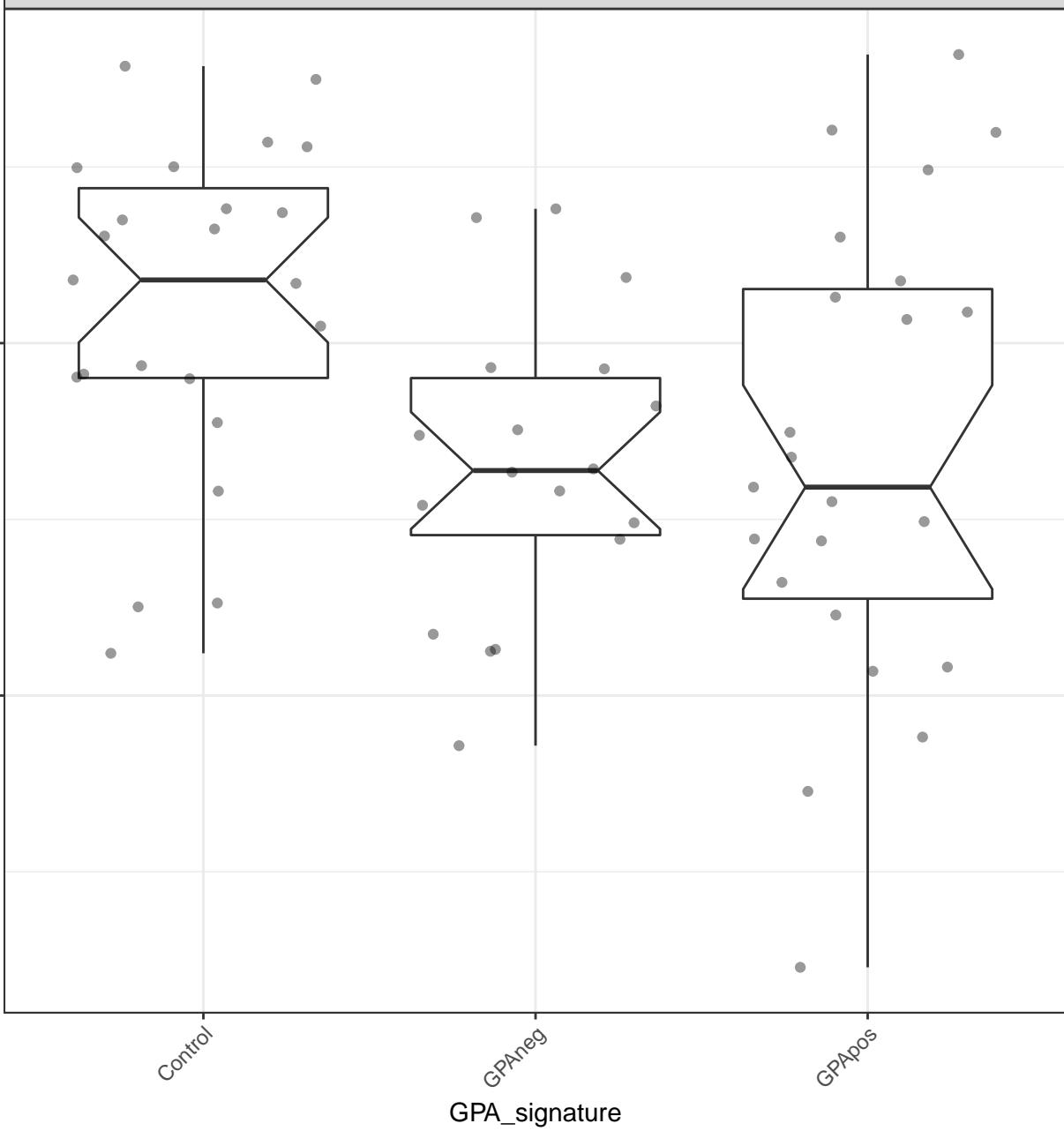
GPA\_signature

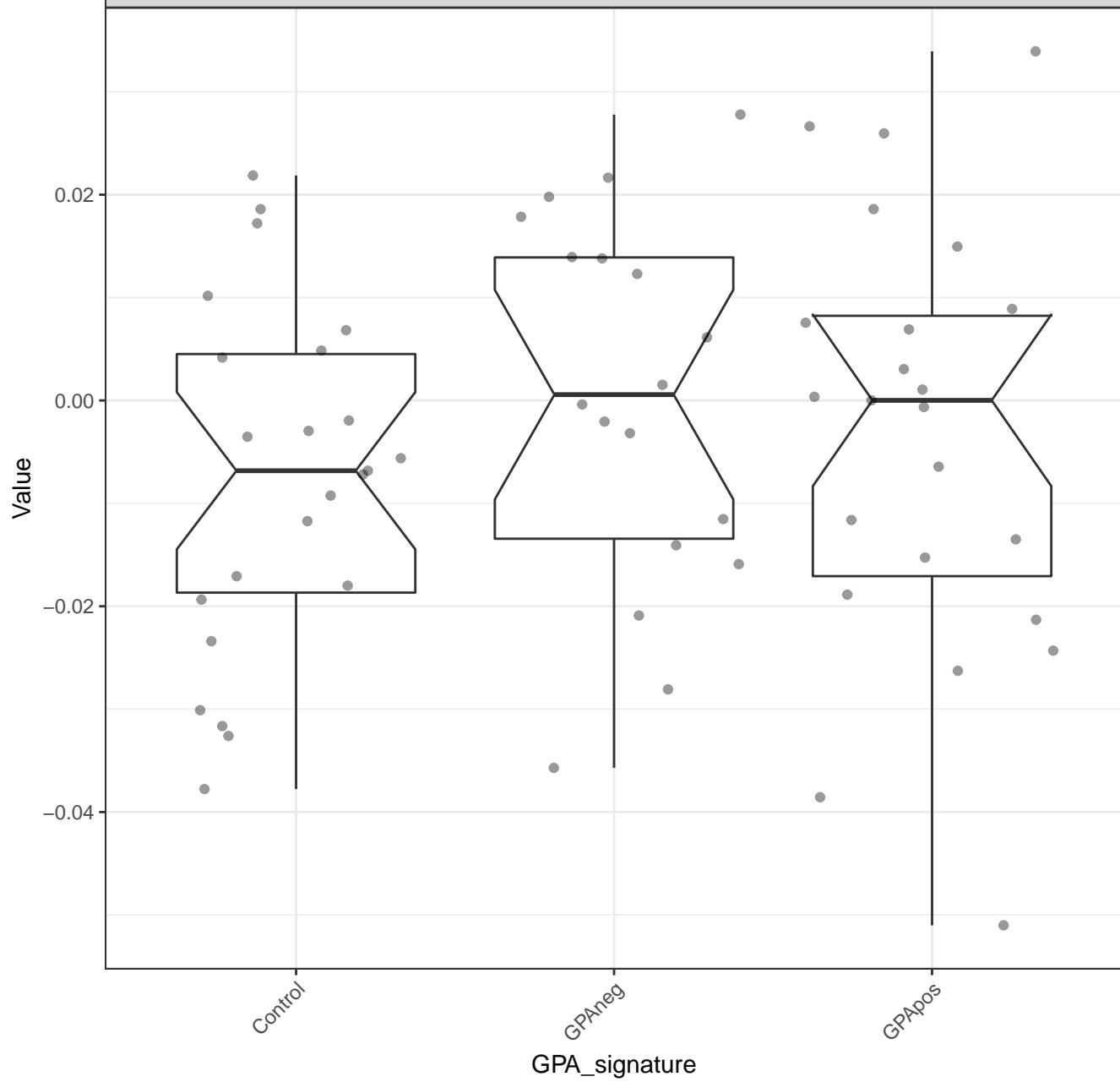


LV 587



Value





LV 590

Value

0.05

0.00

-0.05

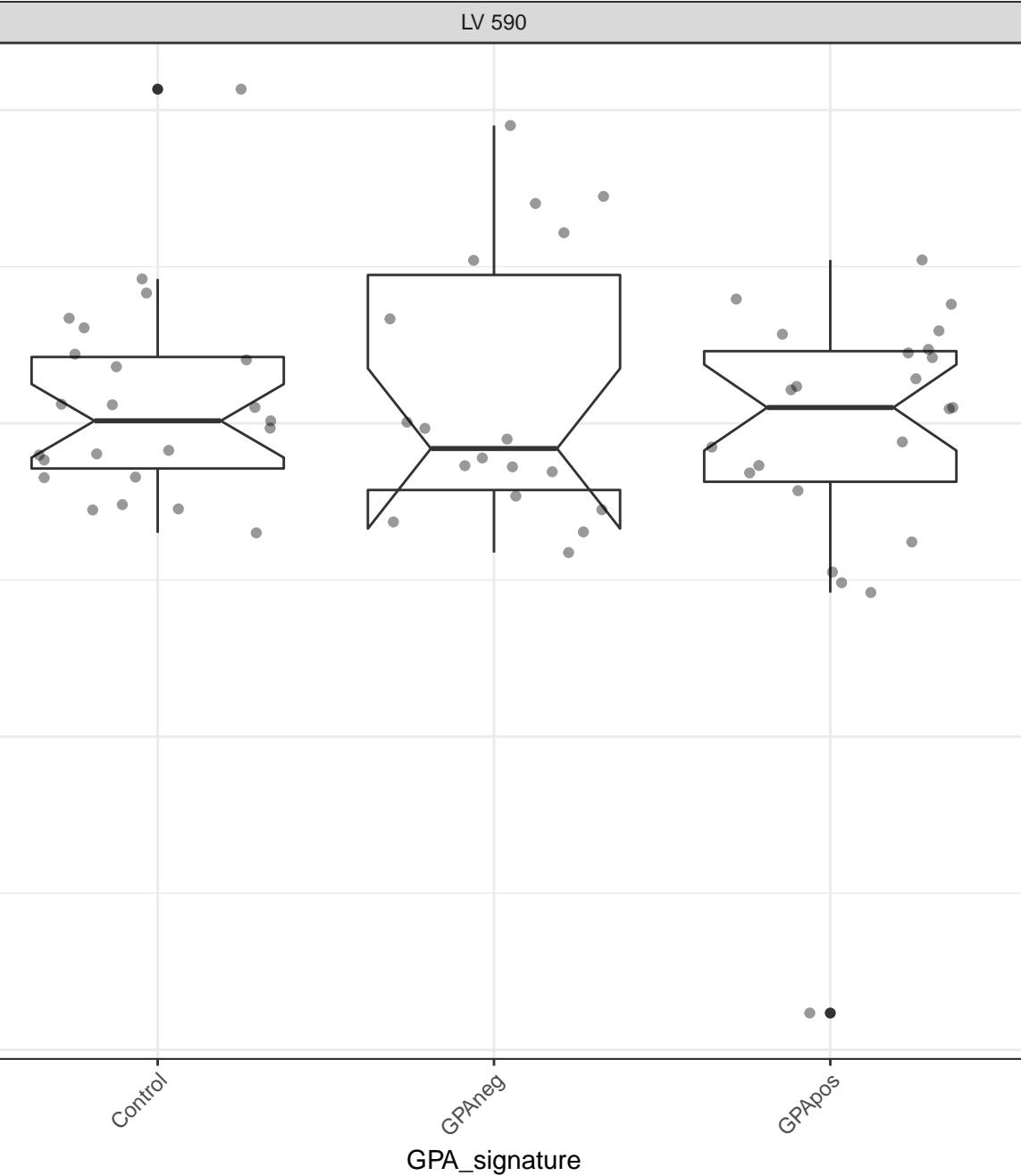
-0.10

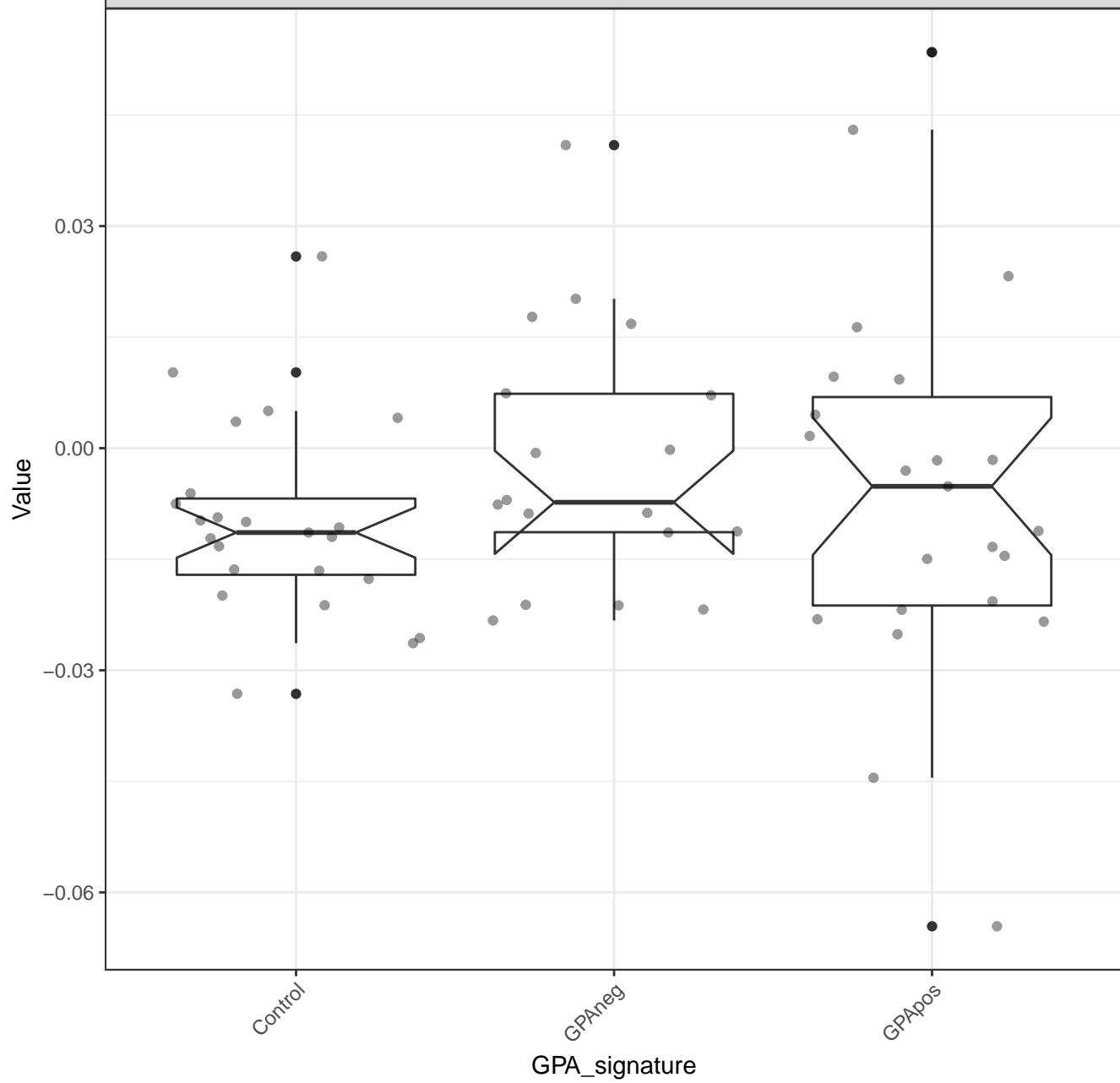
Control

GPA neg

GPA pos

GPA\_signature





LV 592

Value

0.05

0.00

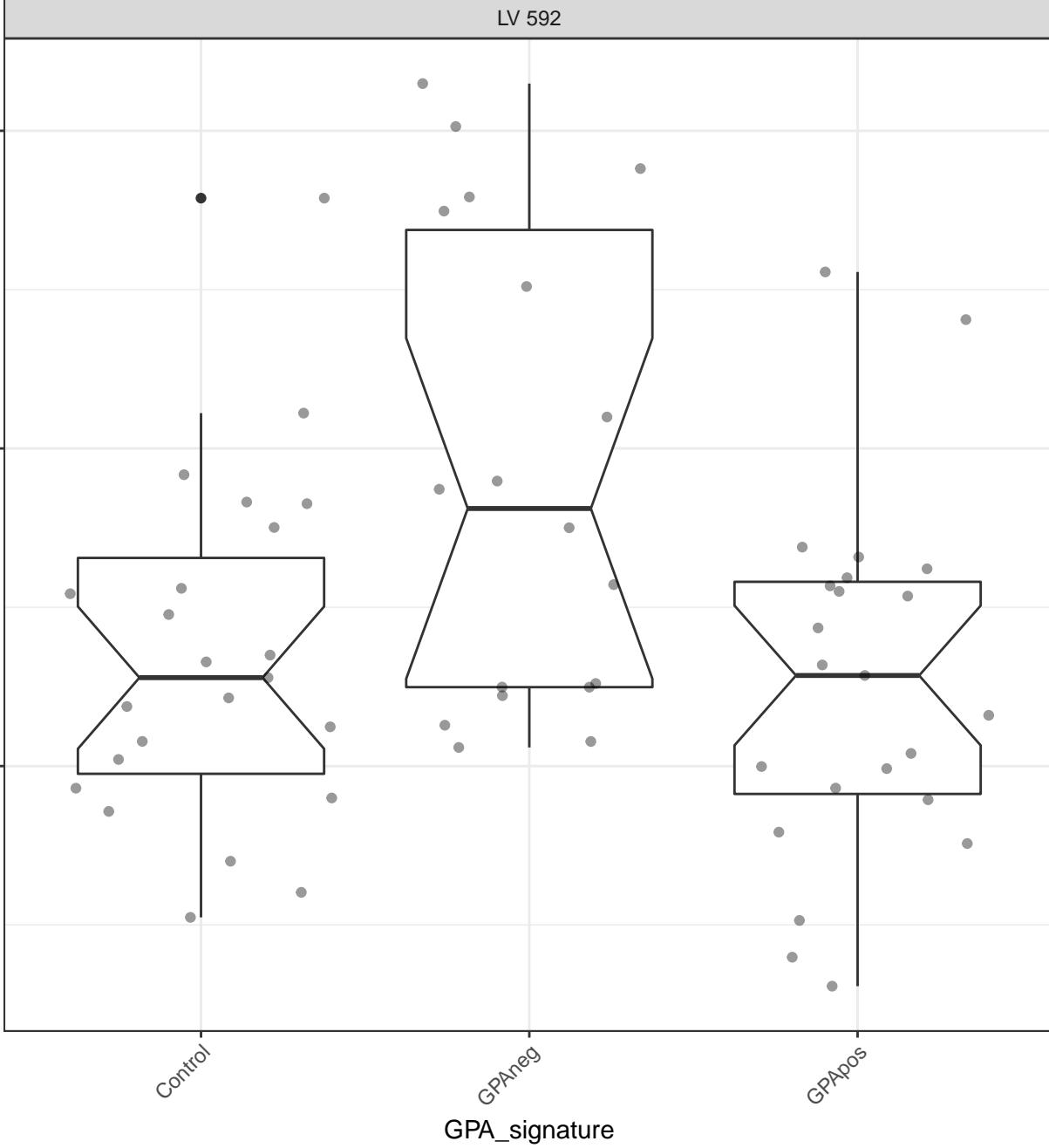
-0.05

Control

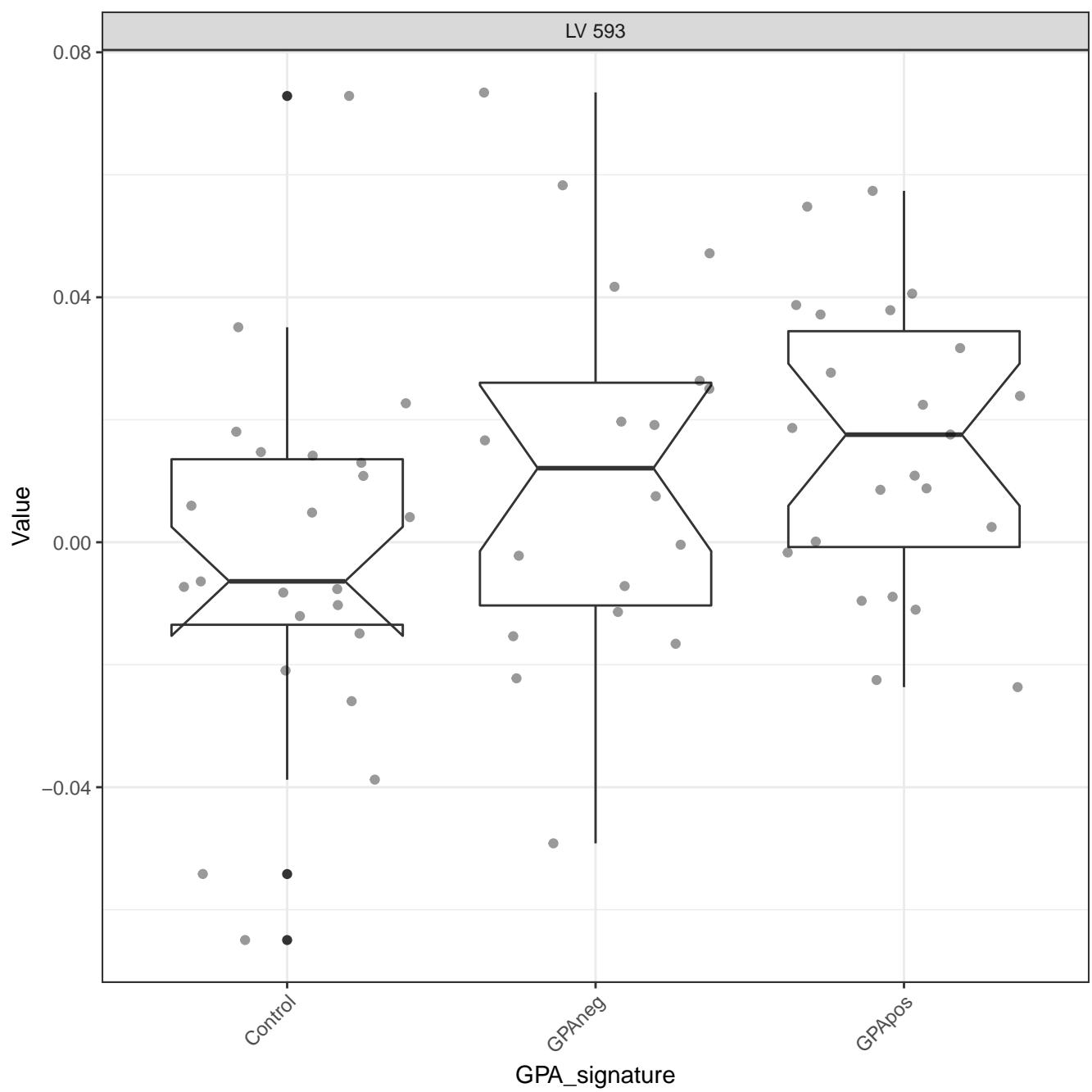
GPAneg

GPApos

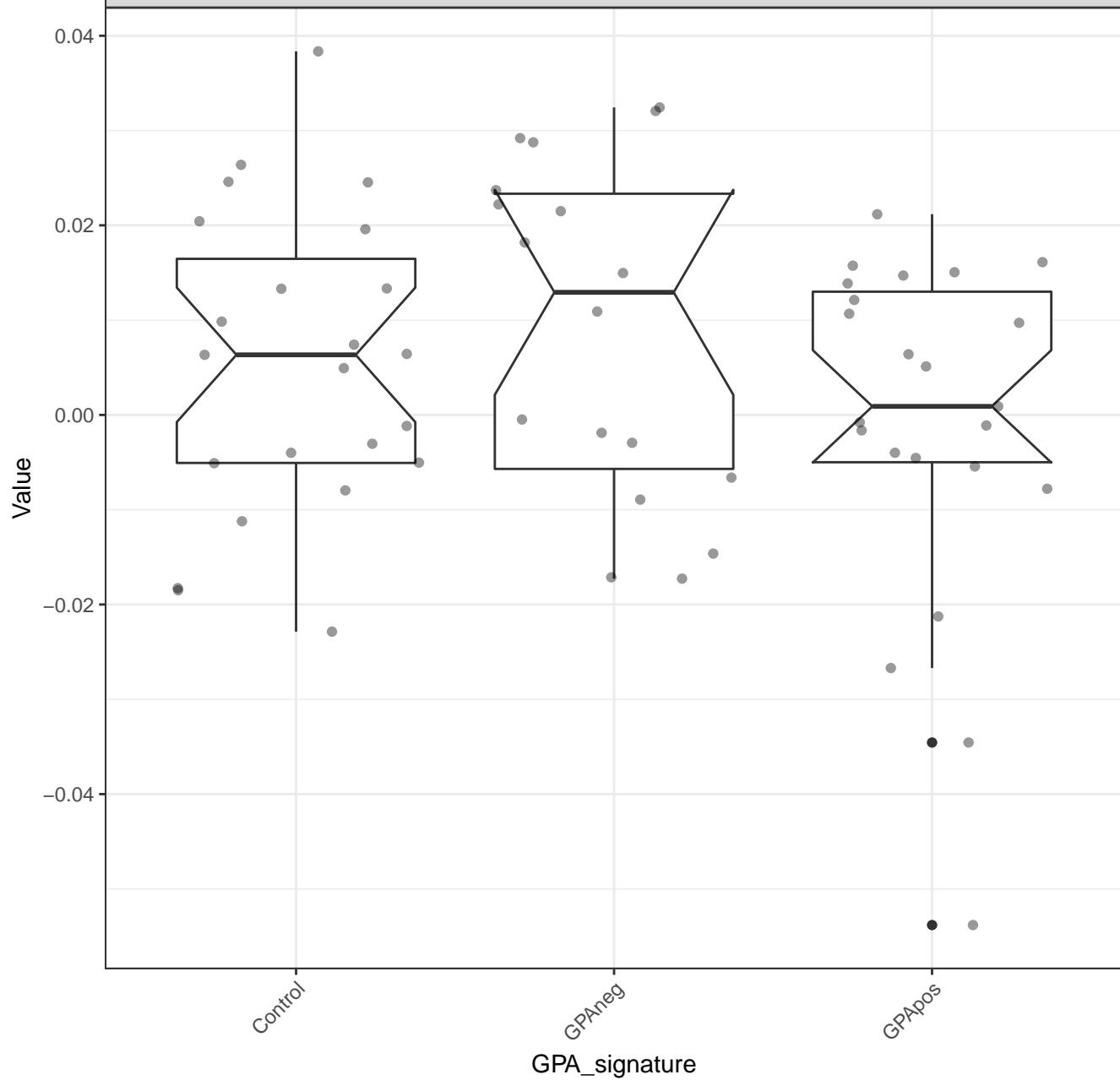
GPA\_signature



LV 593



LV 594



LV 595

Value

0.05

0.00

-0.05

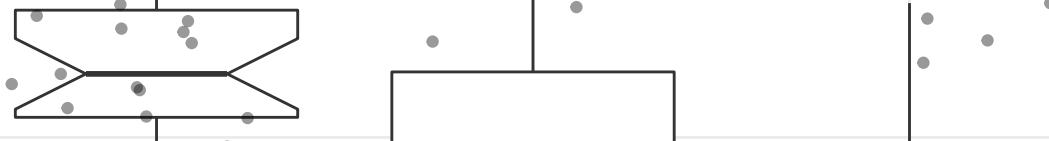
-0.10

Control

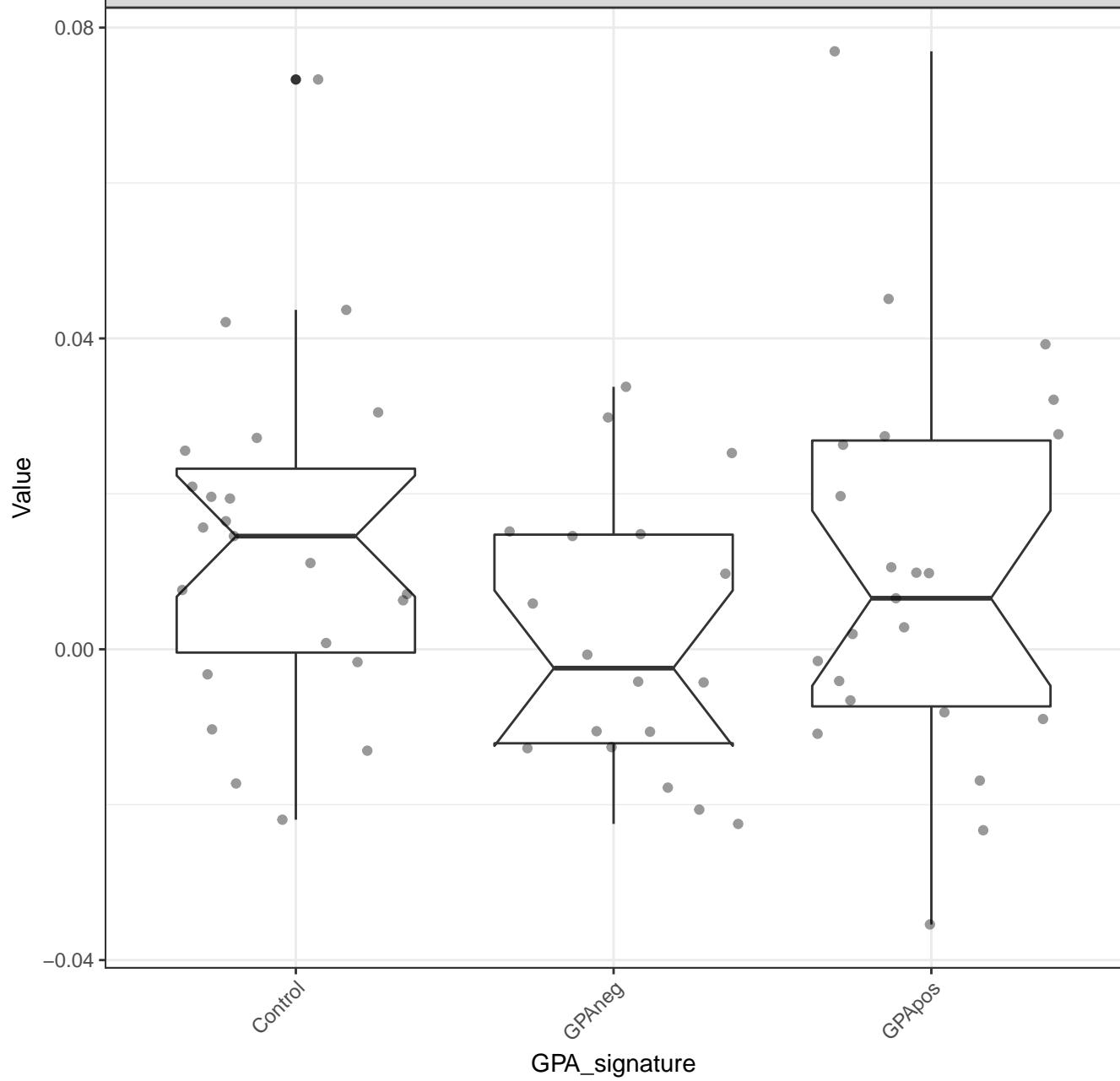
GPAneg

GPApos

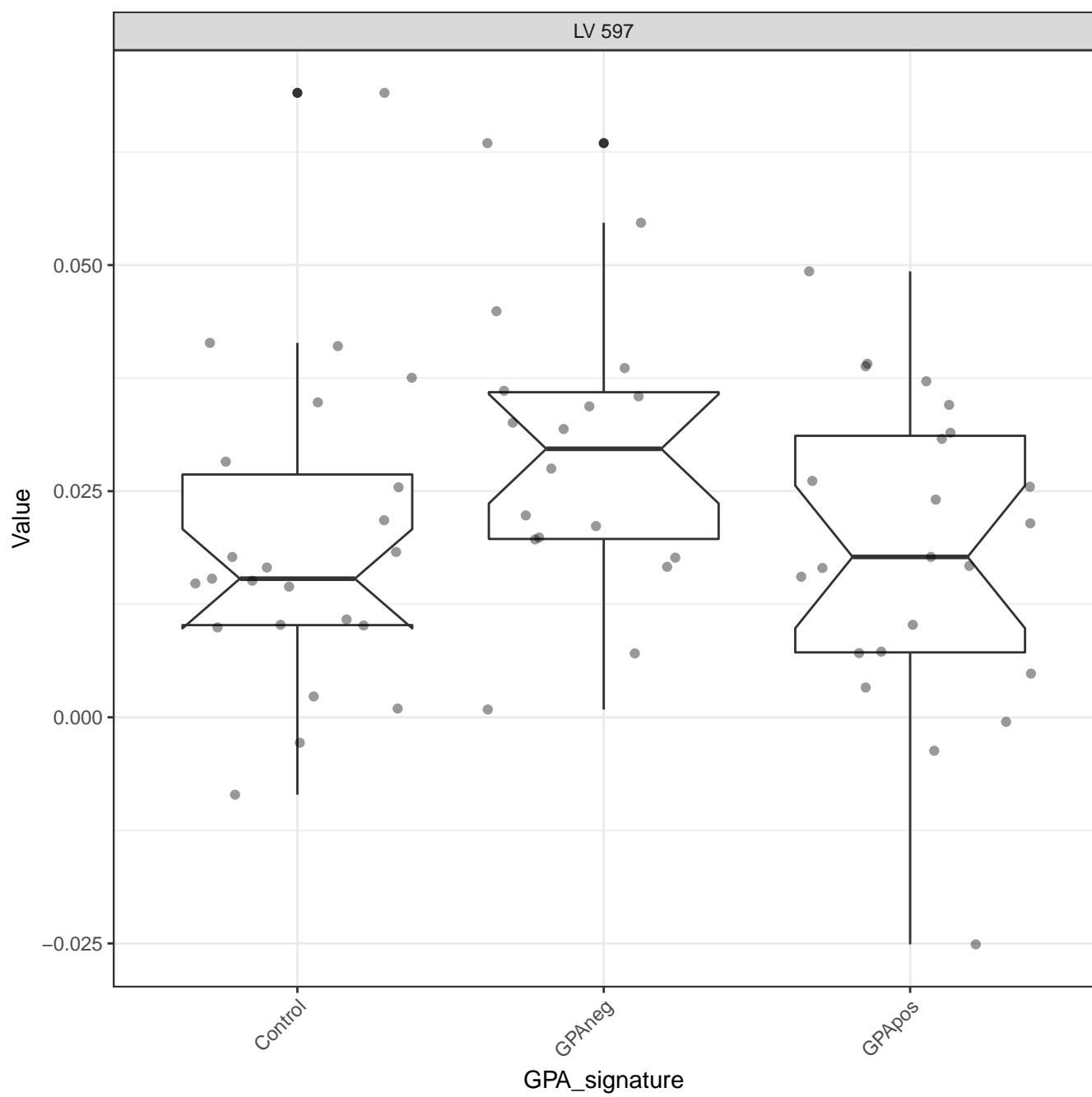
GPA\_signature



LV 596



## LV 597



LV 598

Value

0.05

0.00

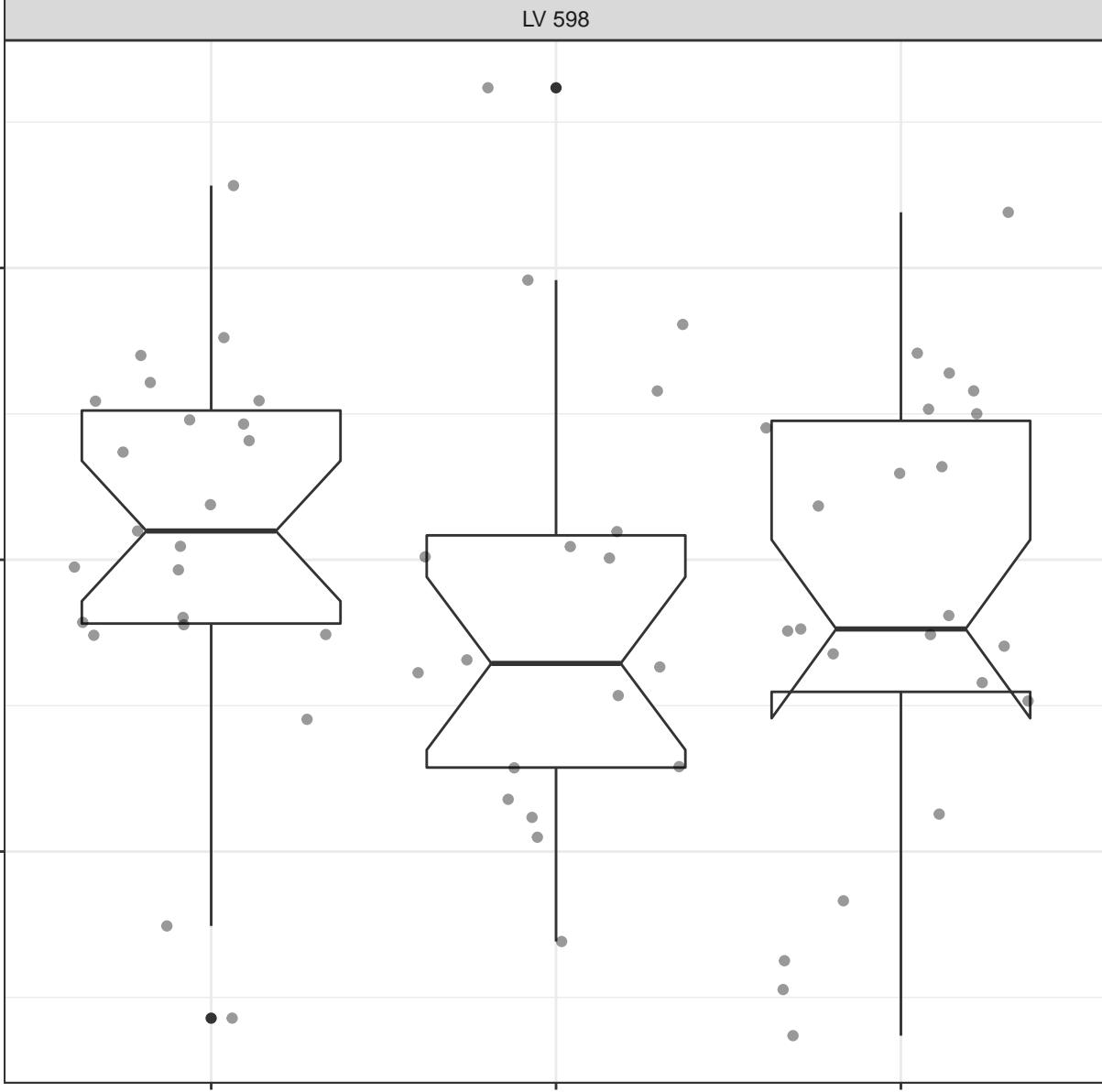
-0.05

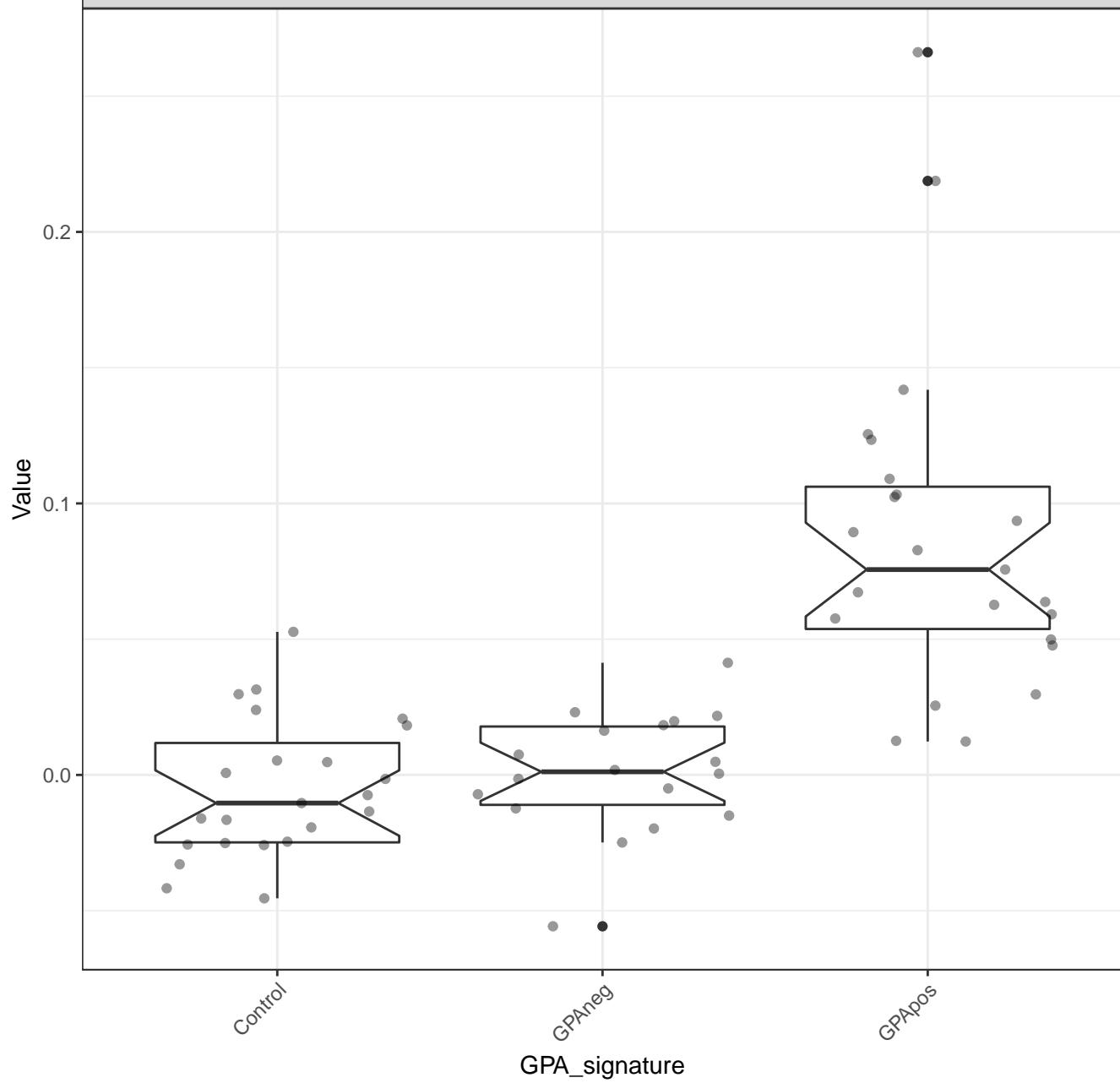
Control

GPA\_signature

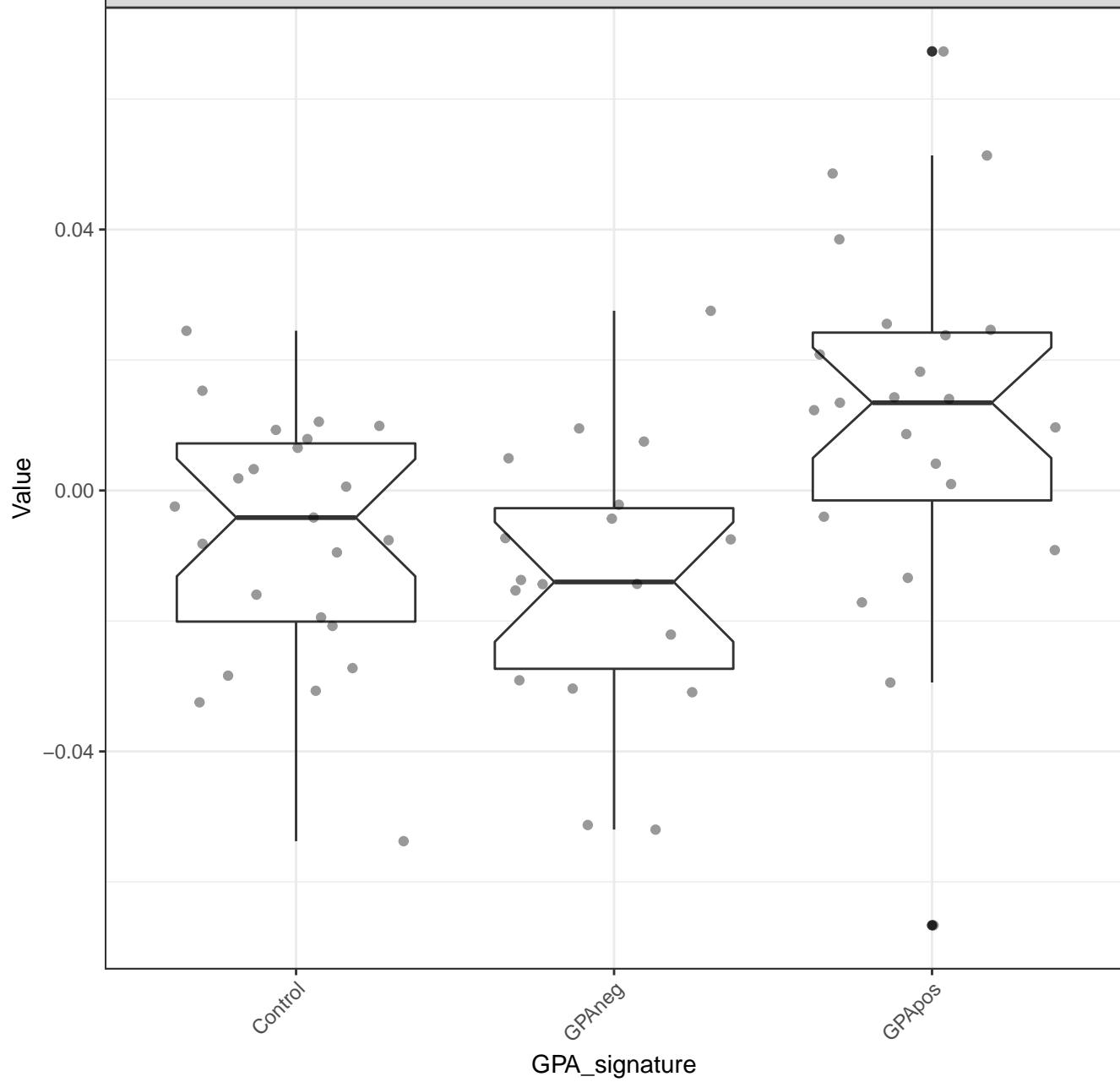
GPAneg

GPAPos

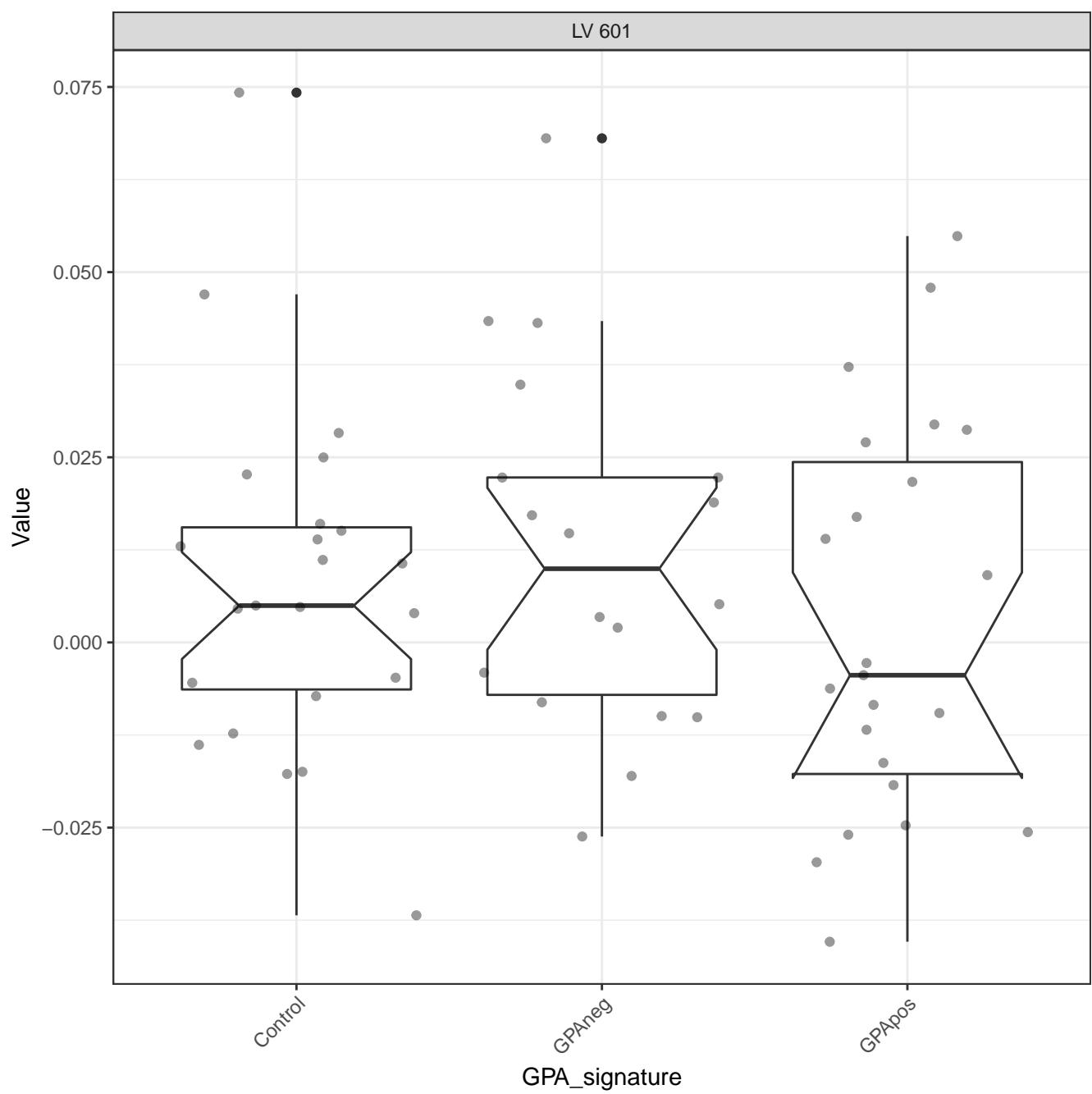




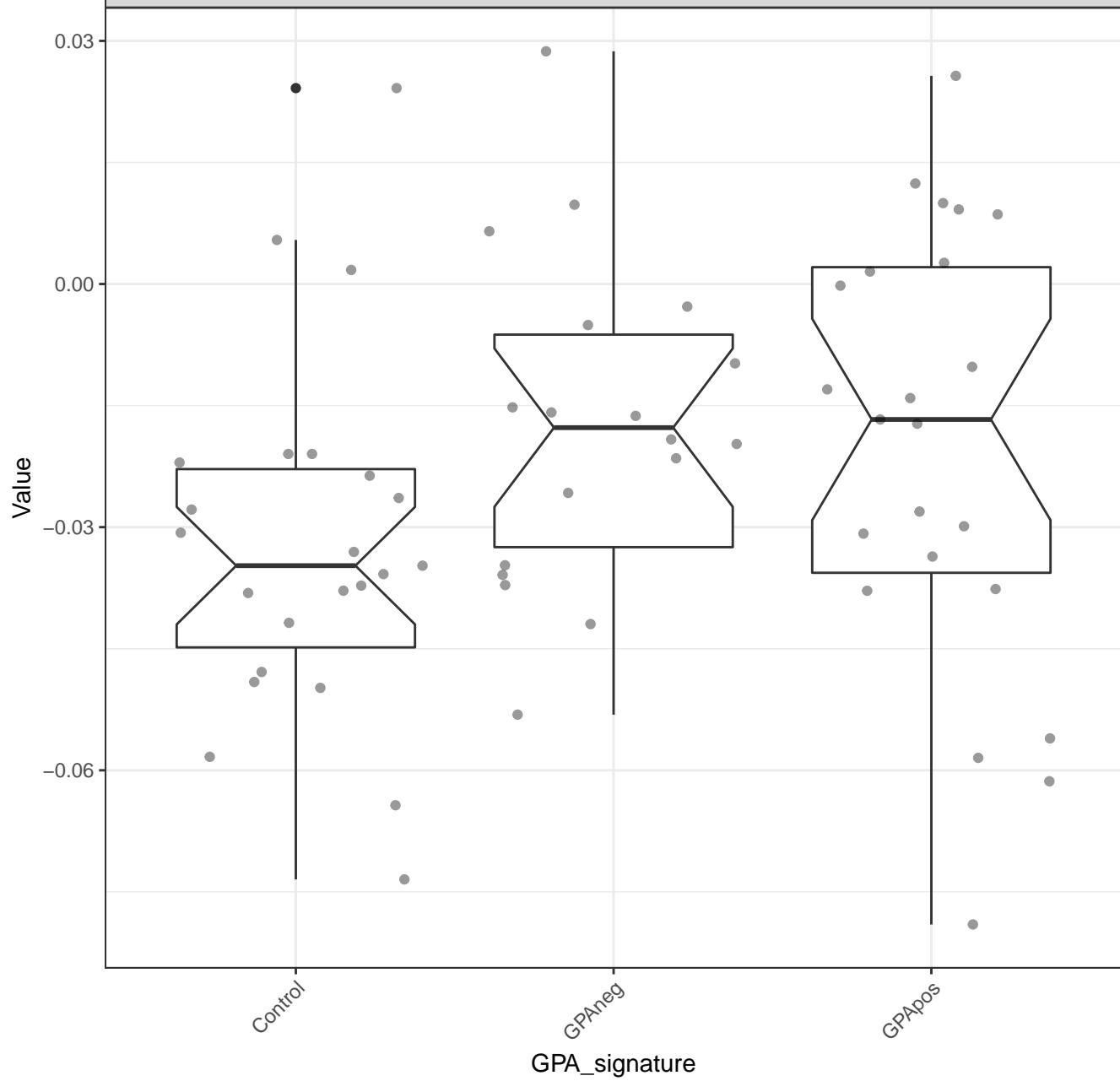
## LV 600



## LV 601



LV 602



## 603,SVM Neutrophils

Value

-0.10

-0.15

-0.20

-0.25

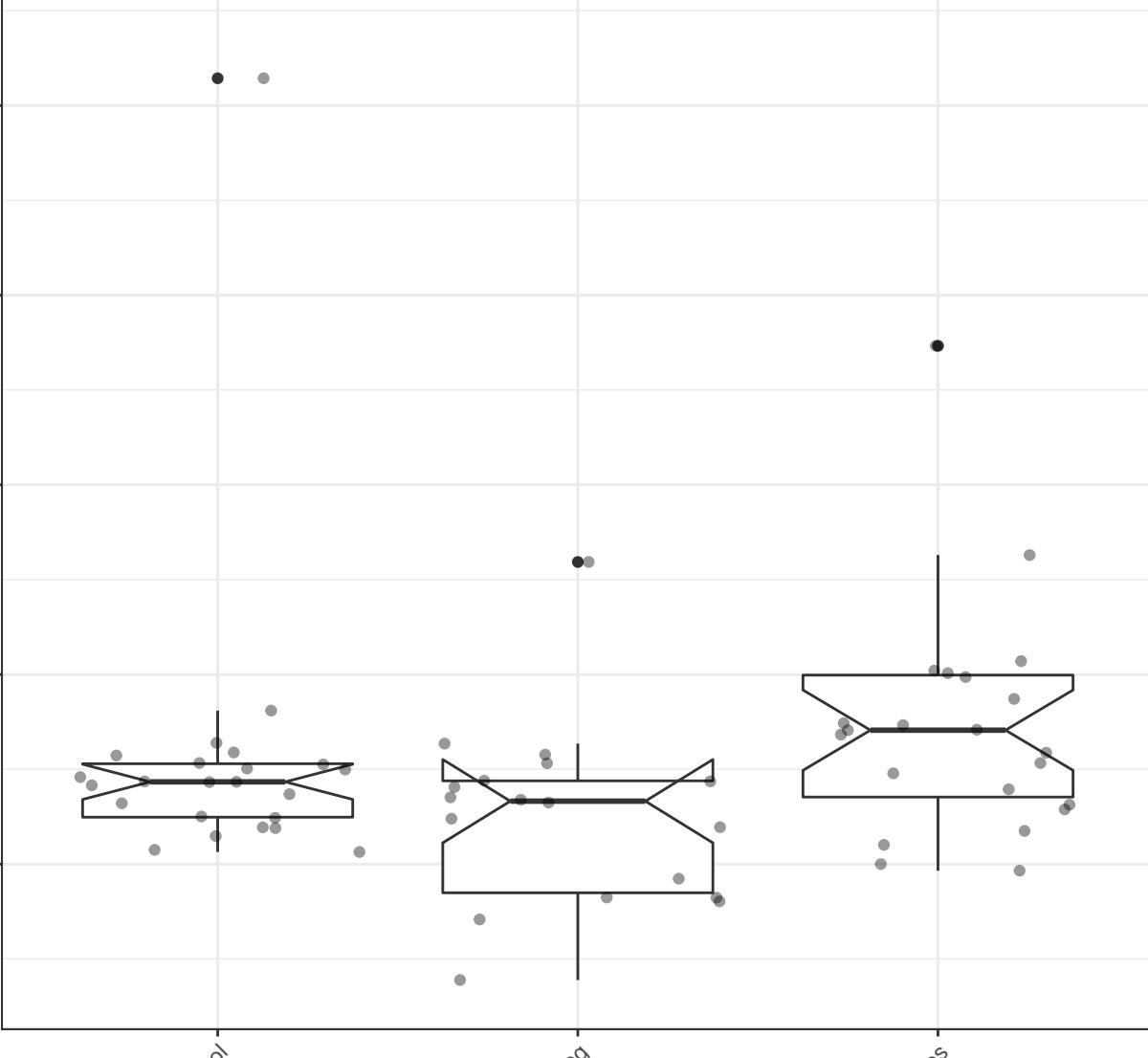
-0.30

Control

GPAneg

GPAPos

GPA\_signature



LV 604

Value

0.06

0.03

0.01

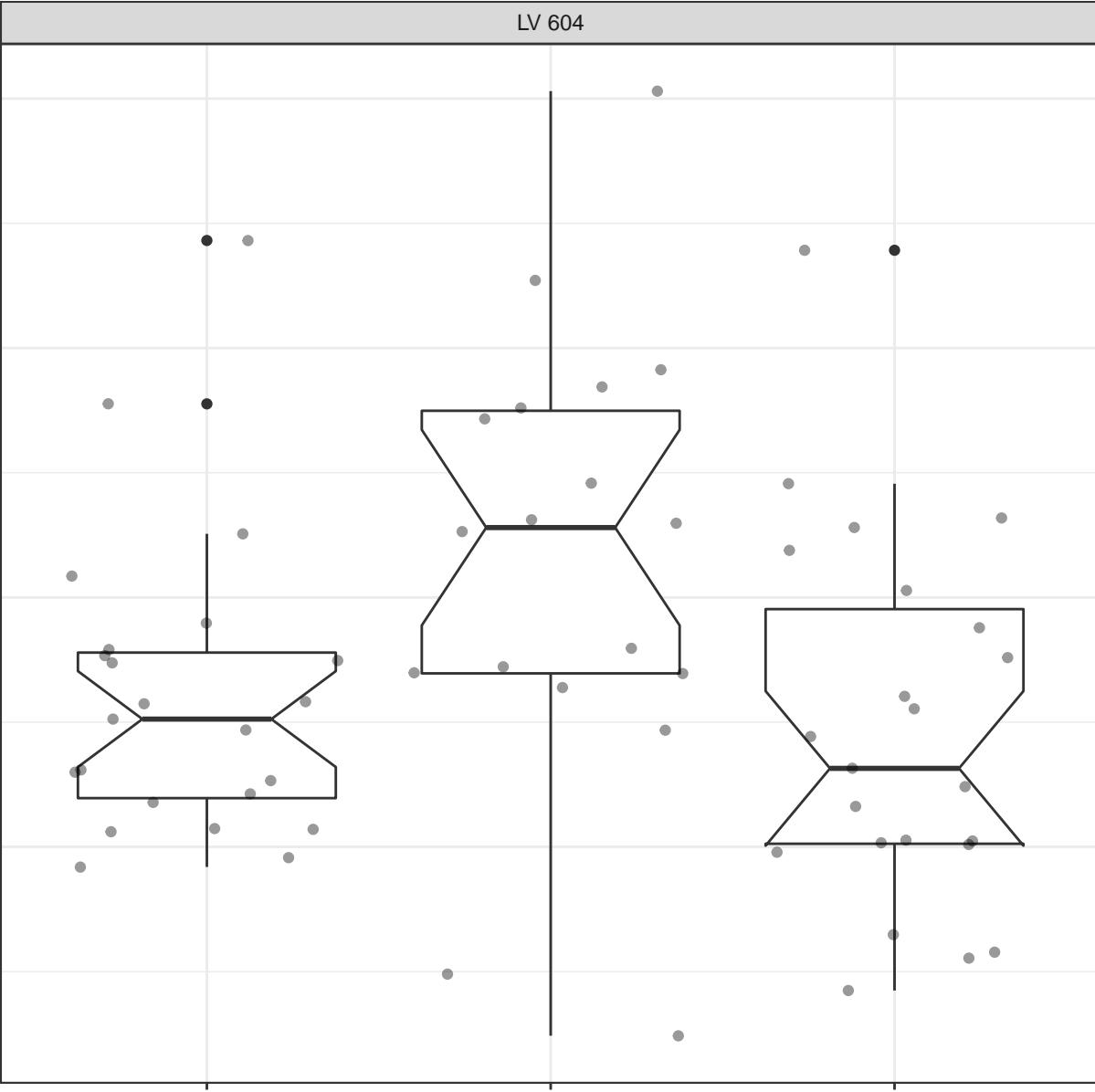
-0.03

Control

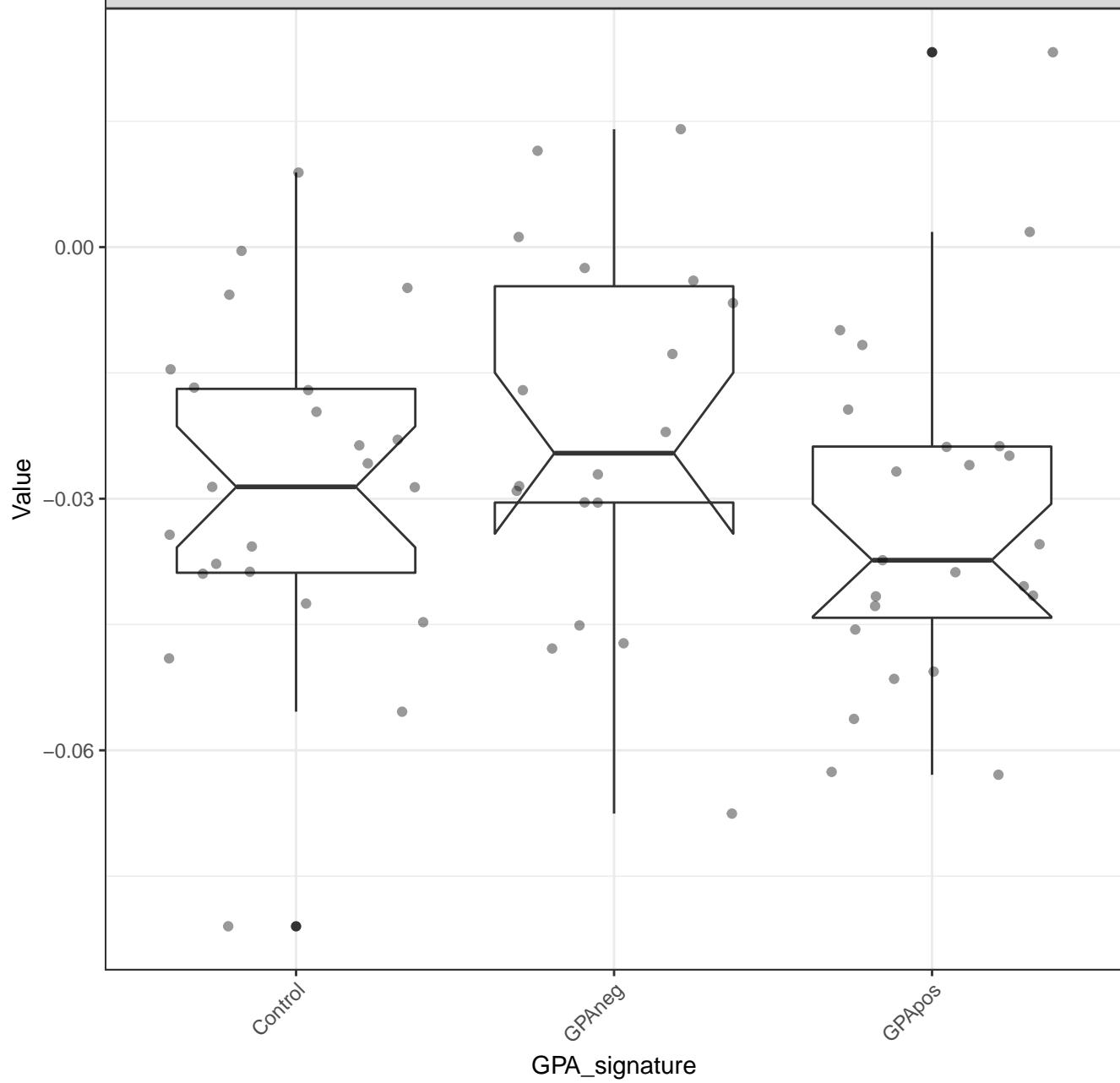
GPA\_signature

GPAneg

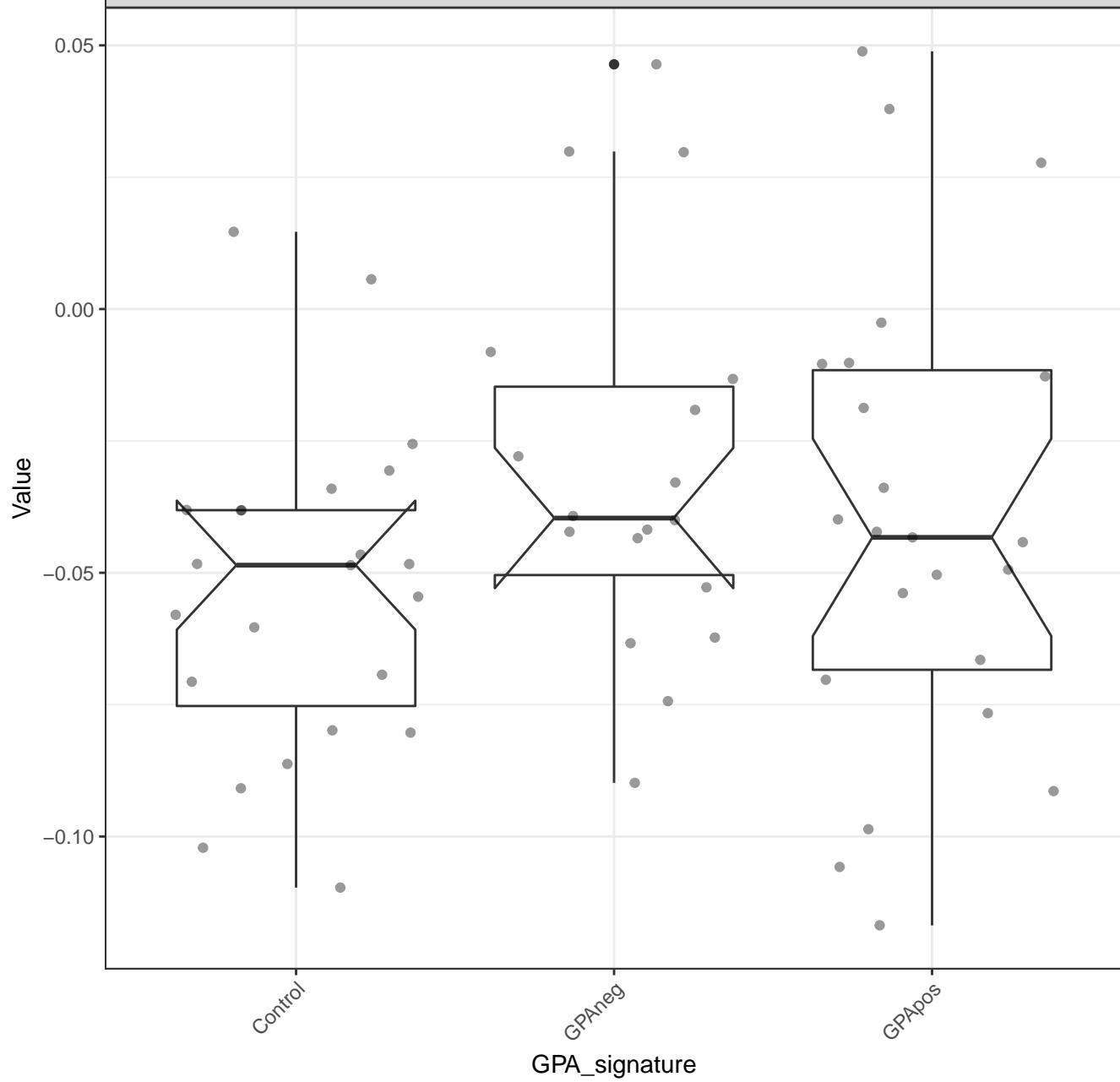
GPApos



## 605,ST\_B\_CELL\_ANTIGEN\_RECECTOR



## LV 606



## LV 607

Value

0.05

0.01

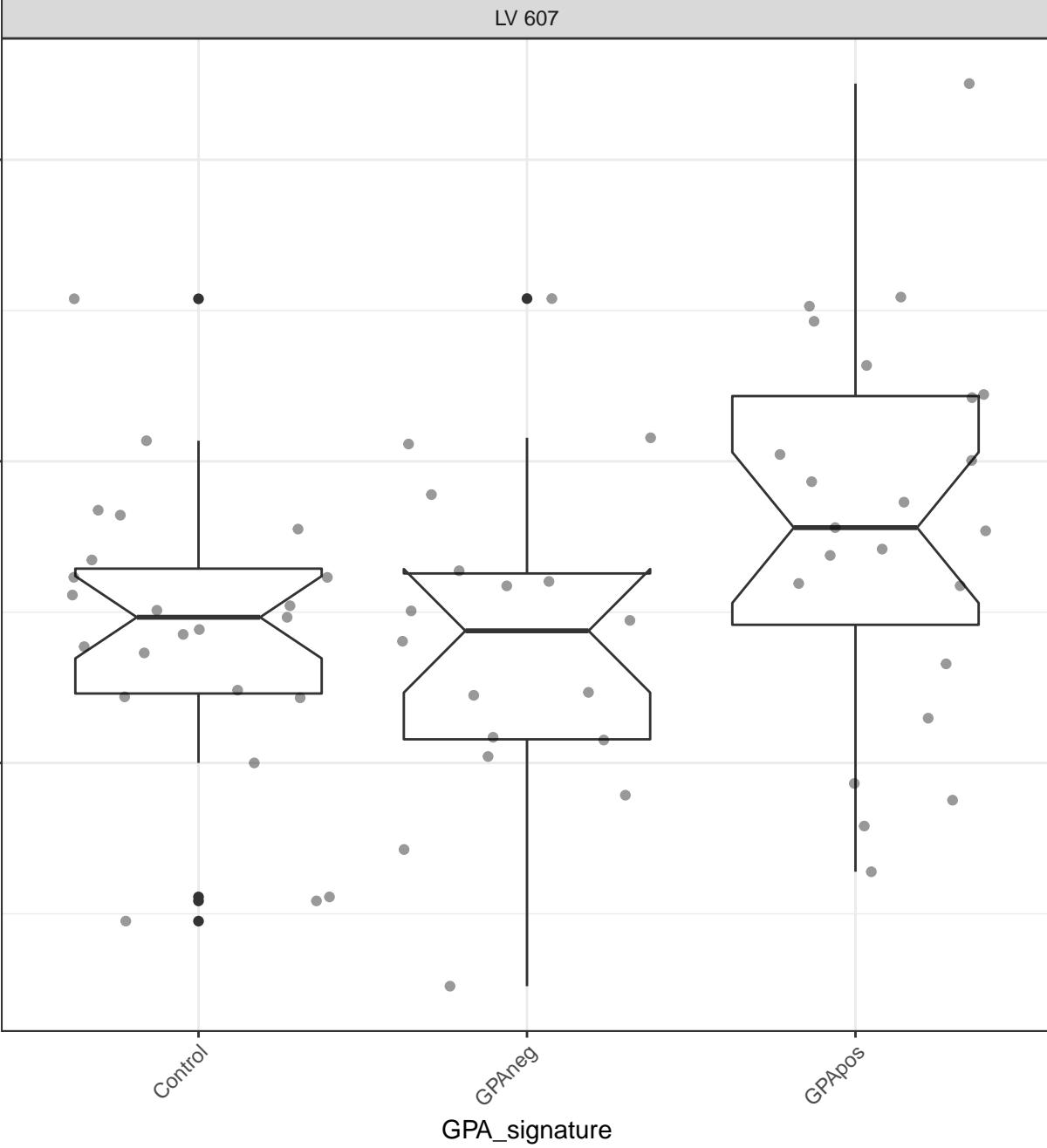
-0.05

Control

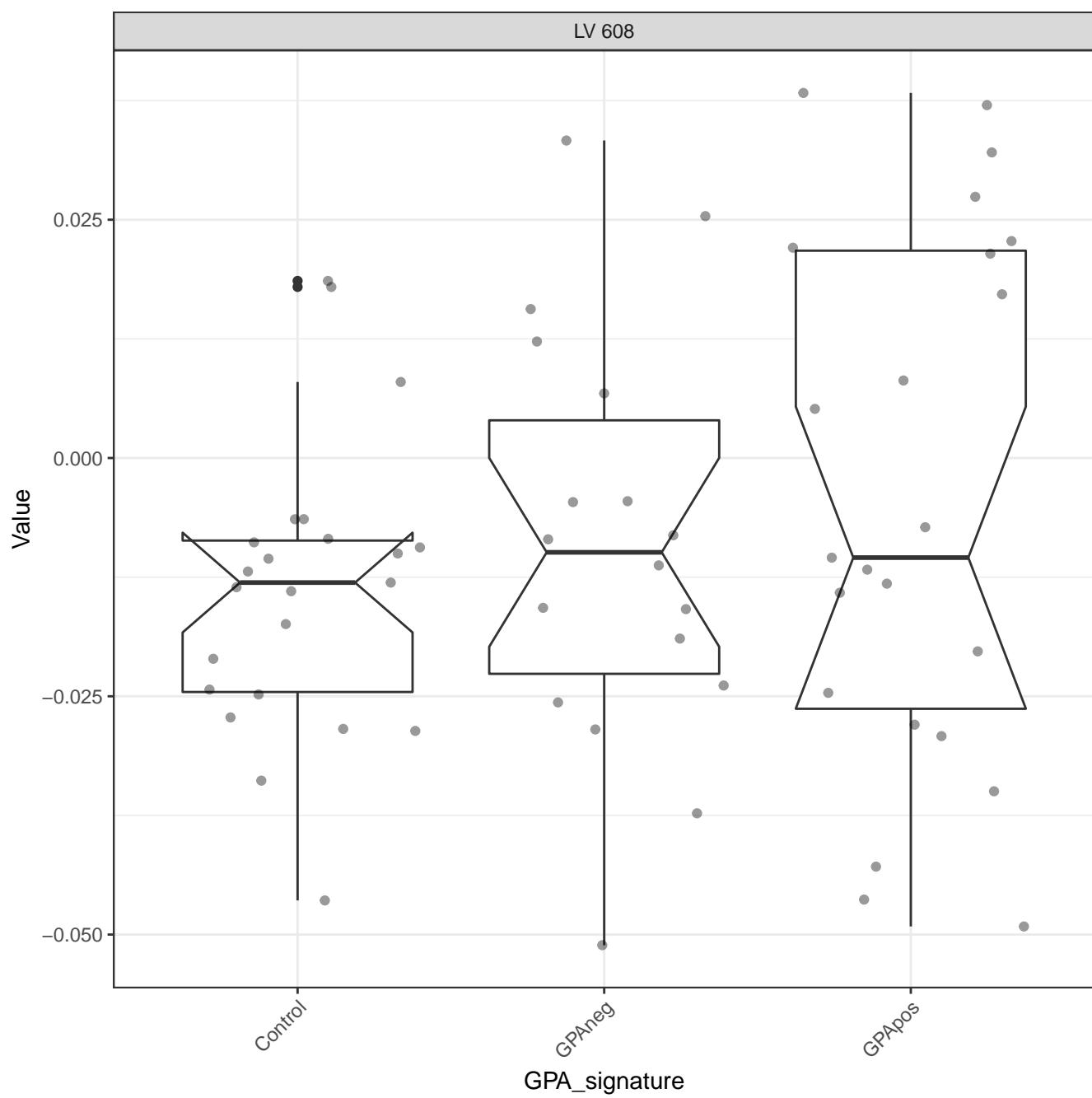
GPA\_signature

GPAneg

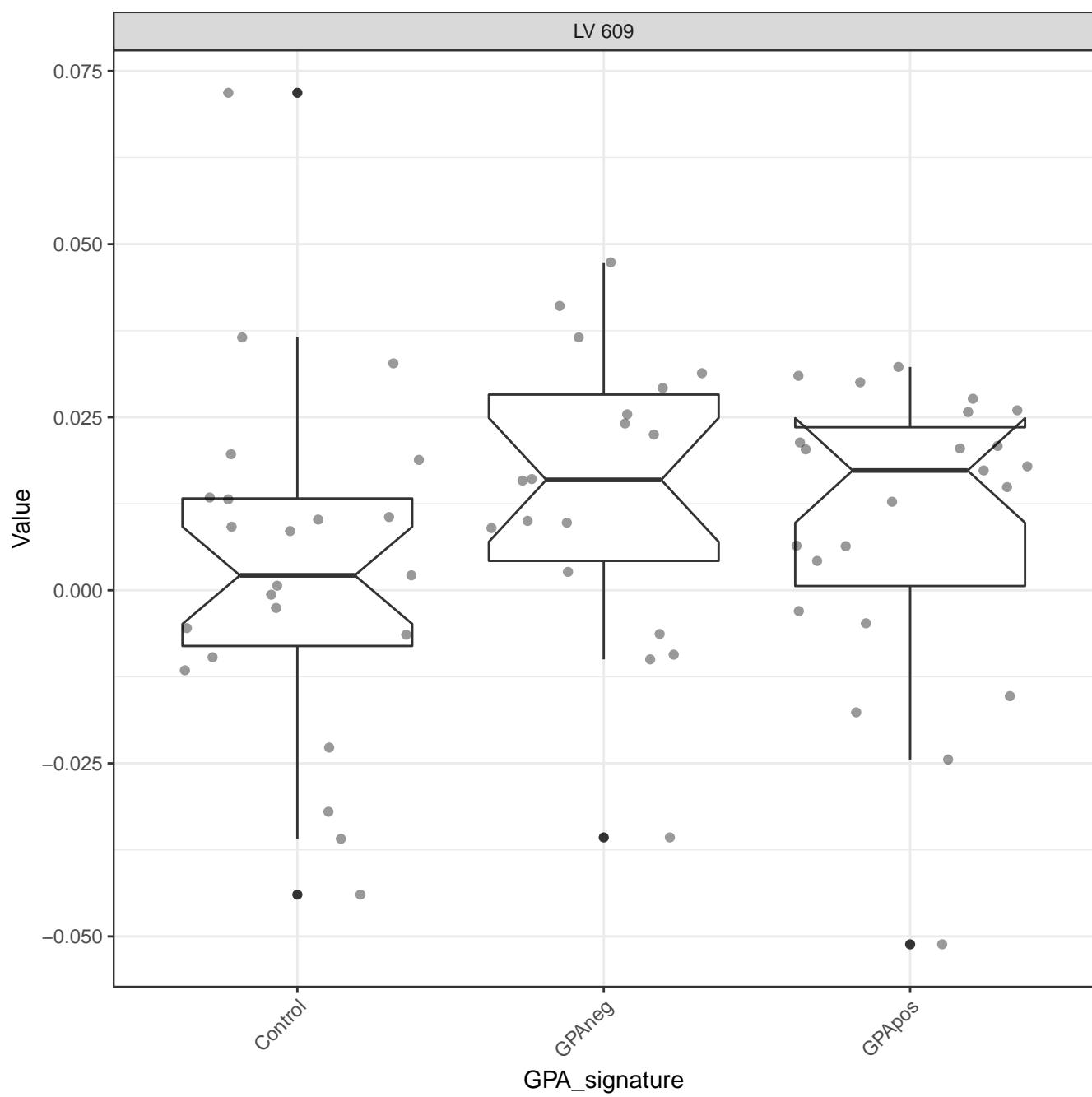
GPApos



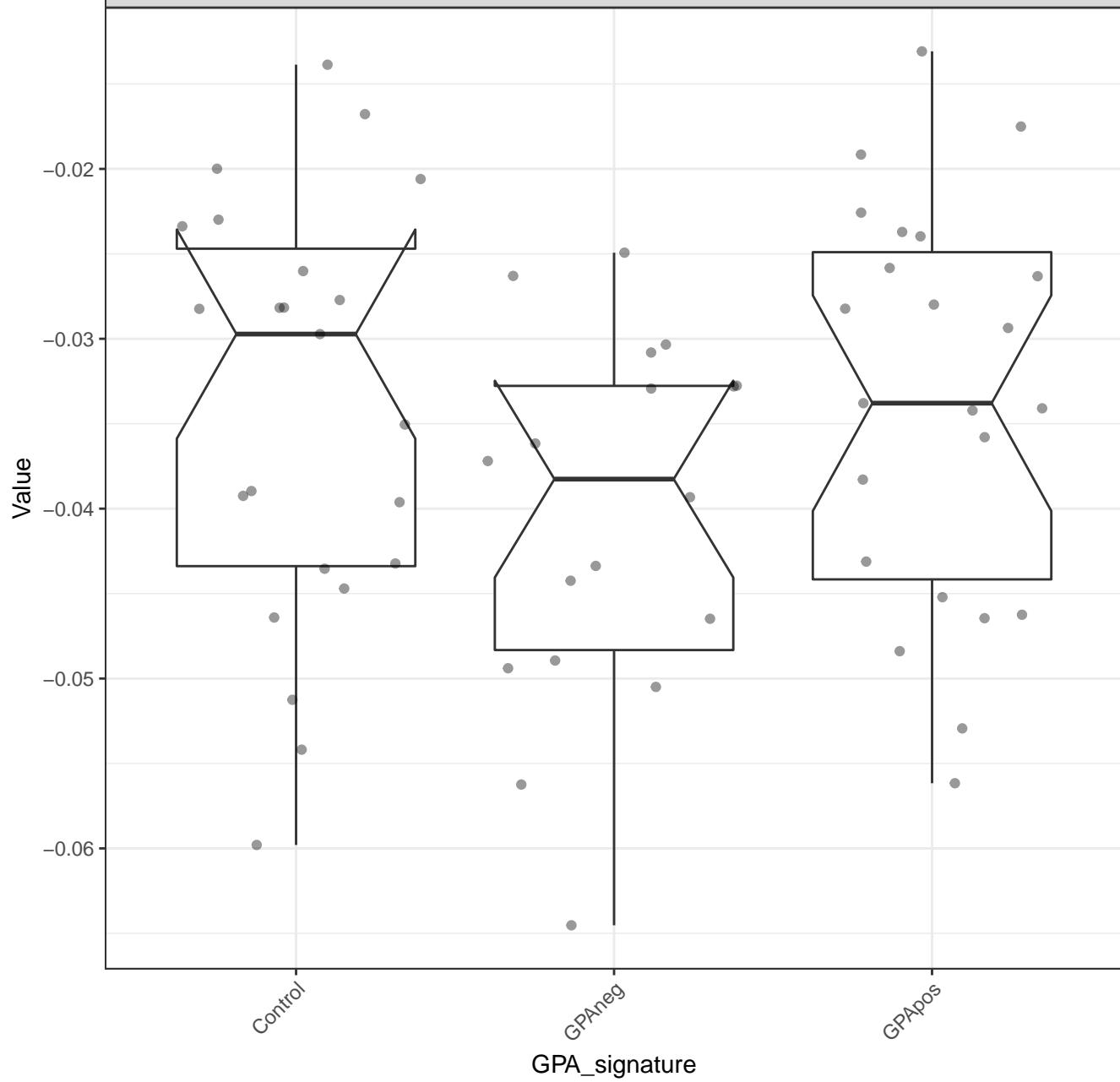
## LV 608



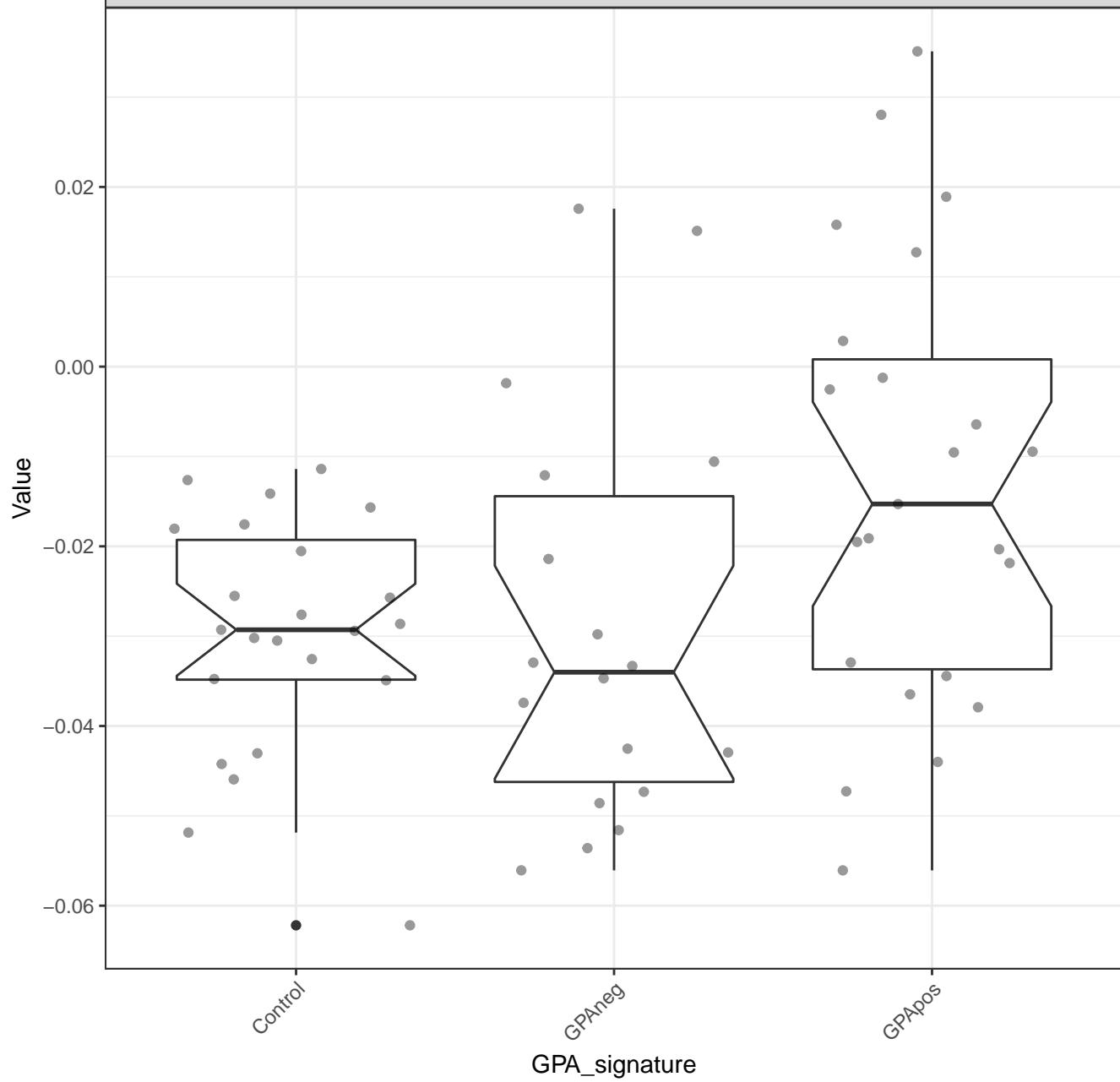
## LV 609



## LV 610



LV 611



## 612,REACTOME\_GAB1\_SIGNALOSOME

Value

0.00

-0.05

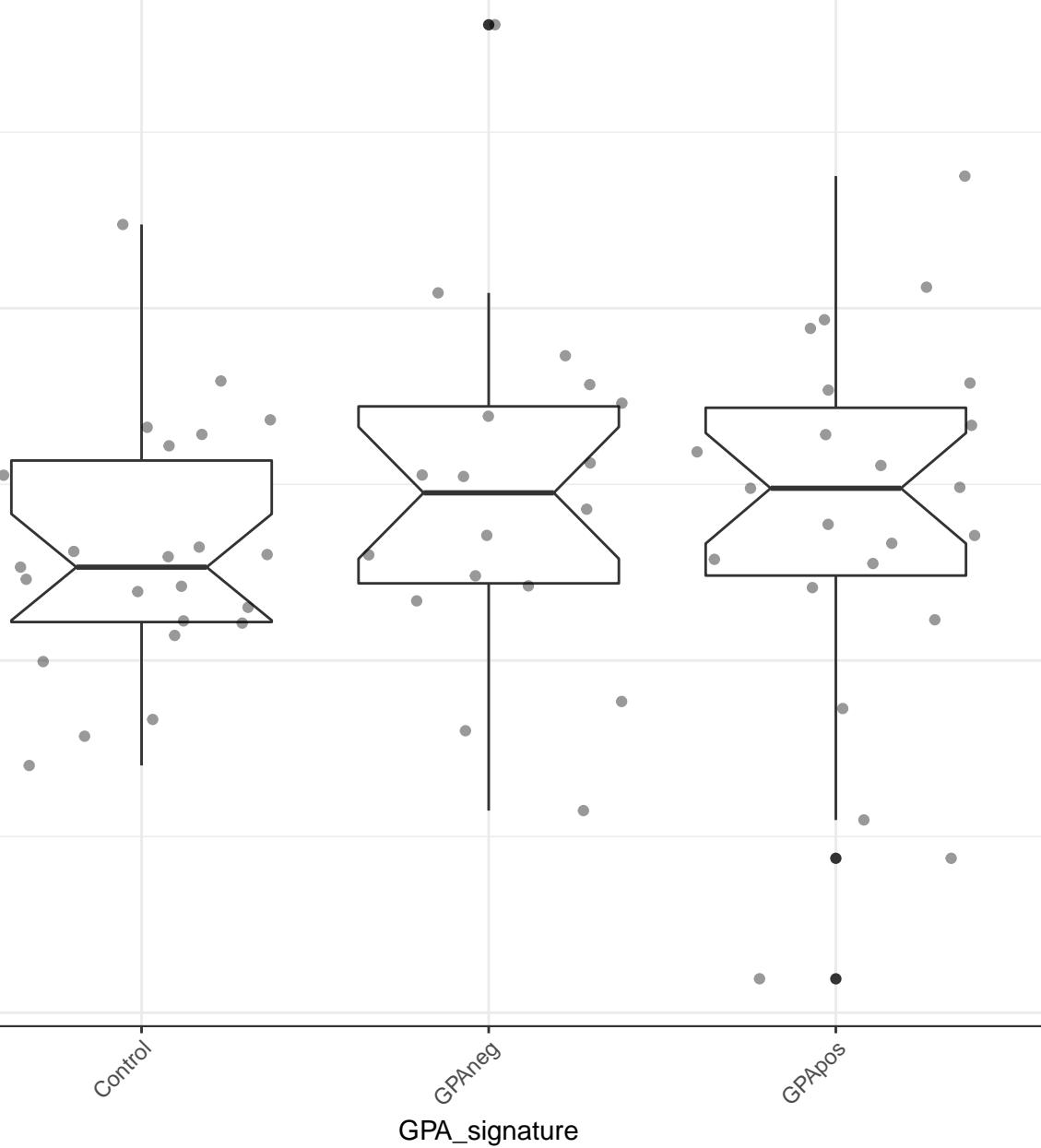
-0.10

Control

GPA\_signature

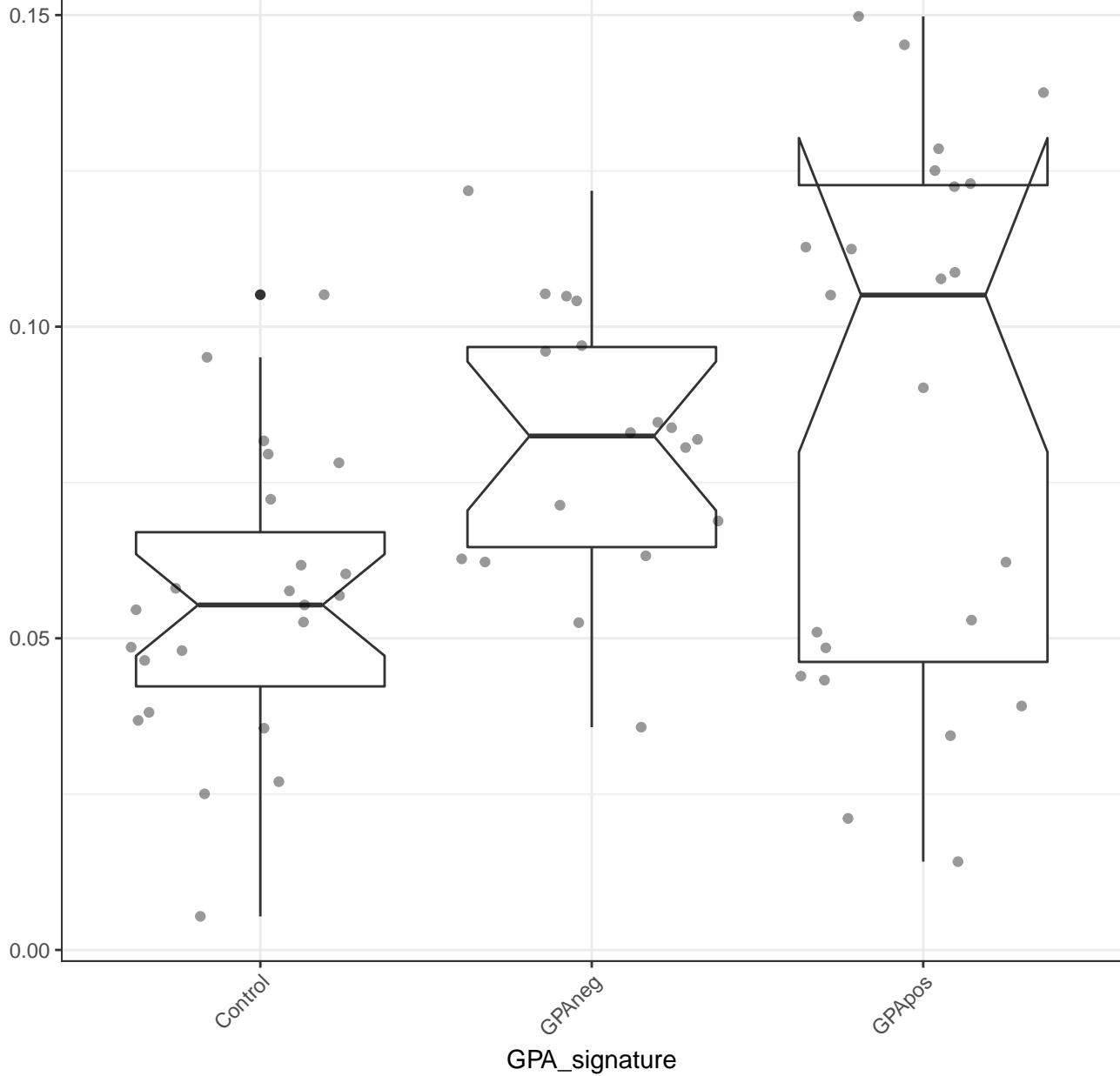
GPAneg

GPApos

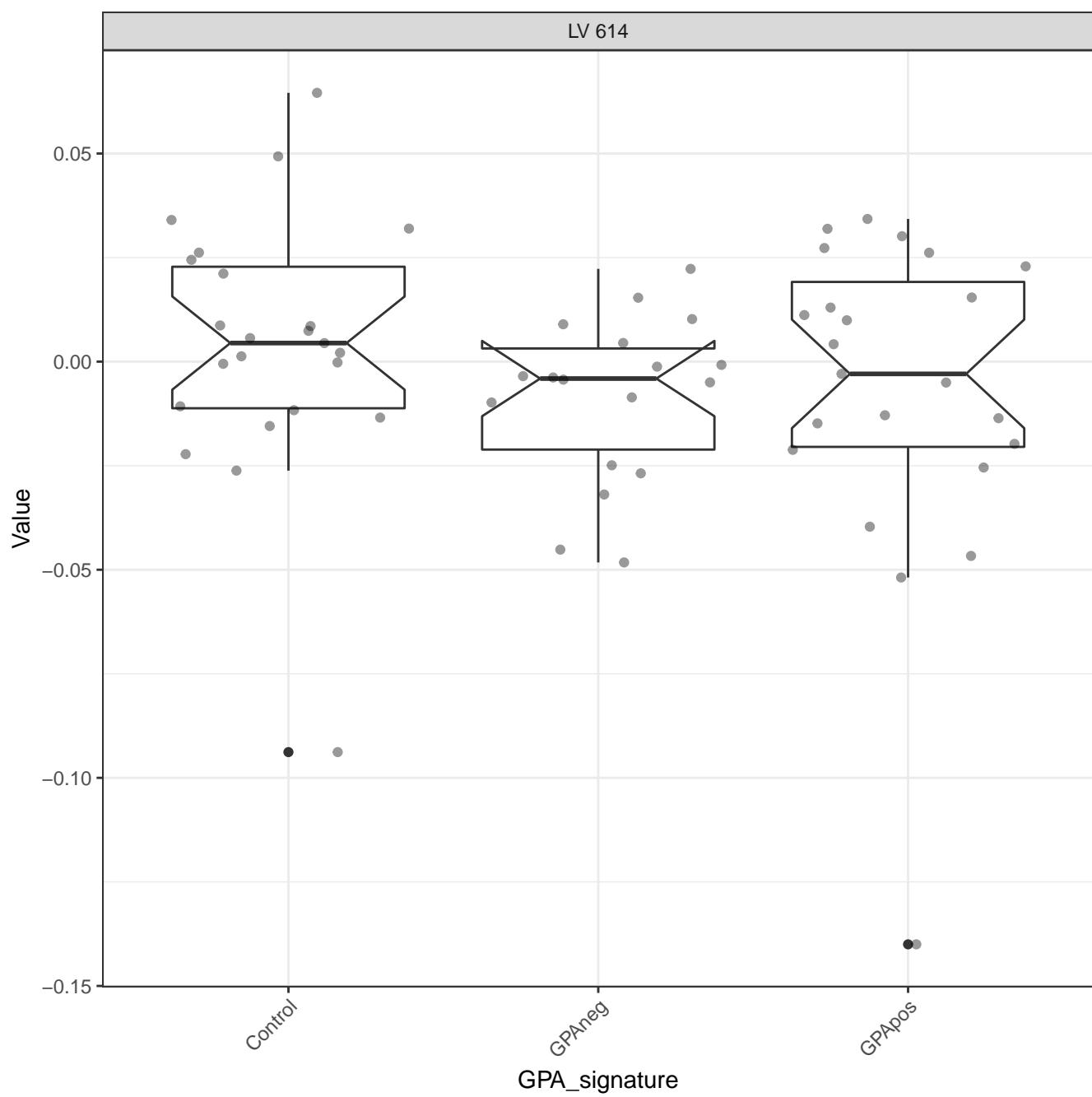


## 613,KEGG\_LYSOSOME

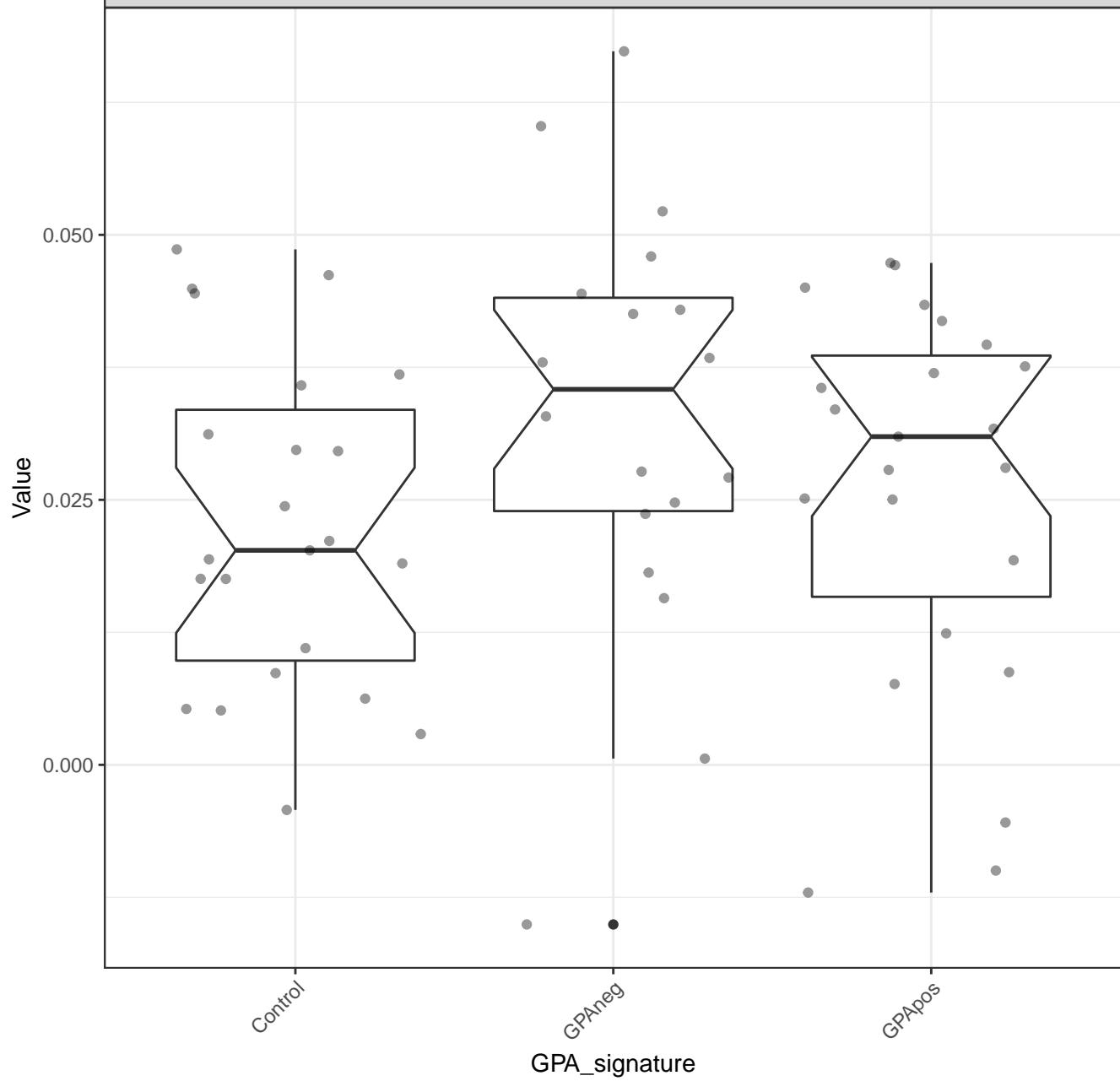
Value



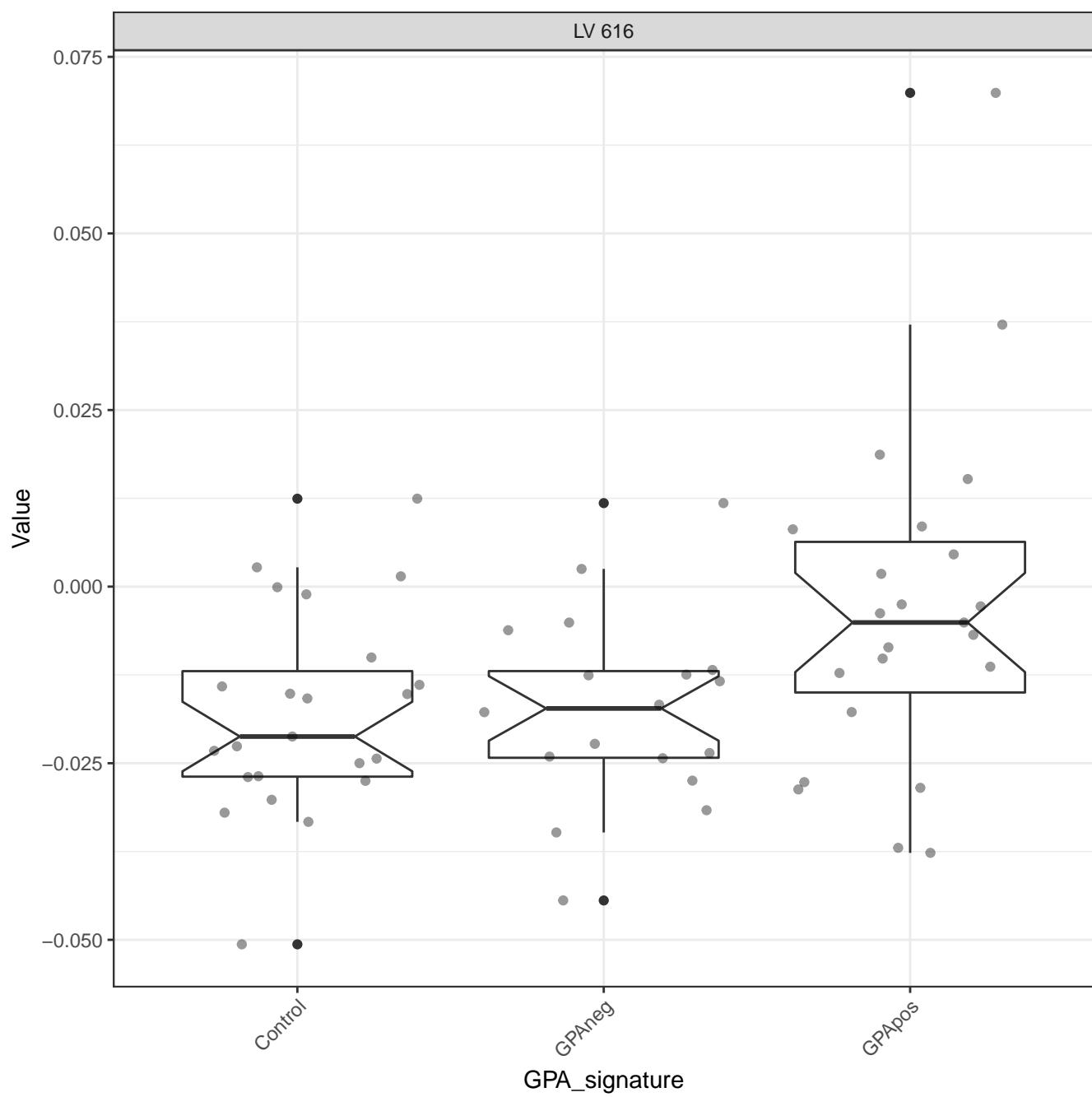
## LV 614



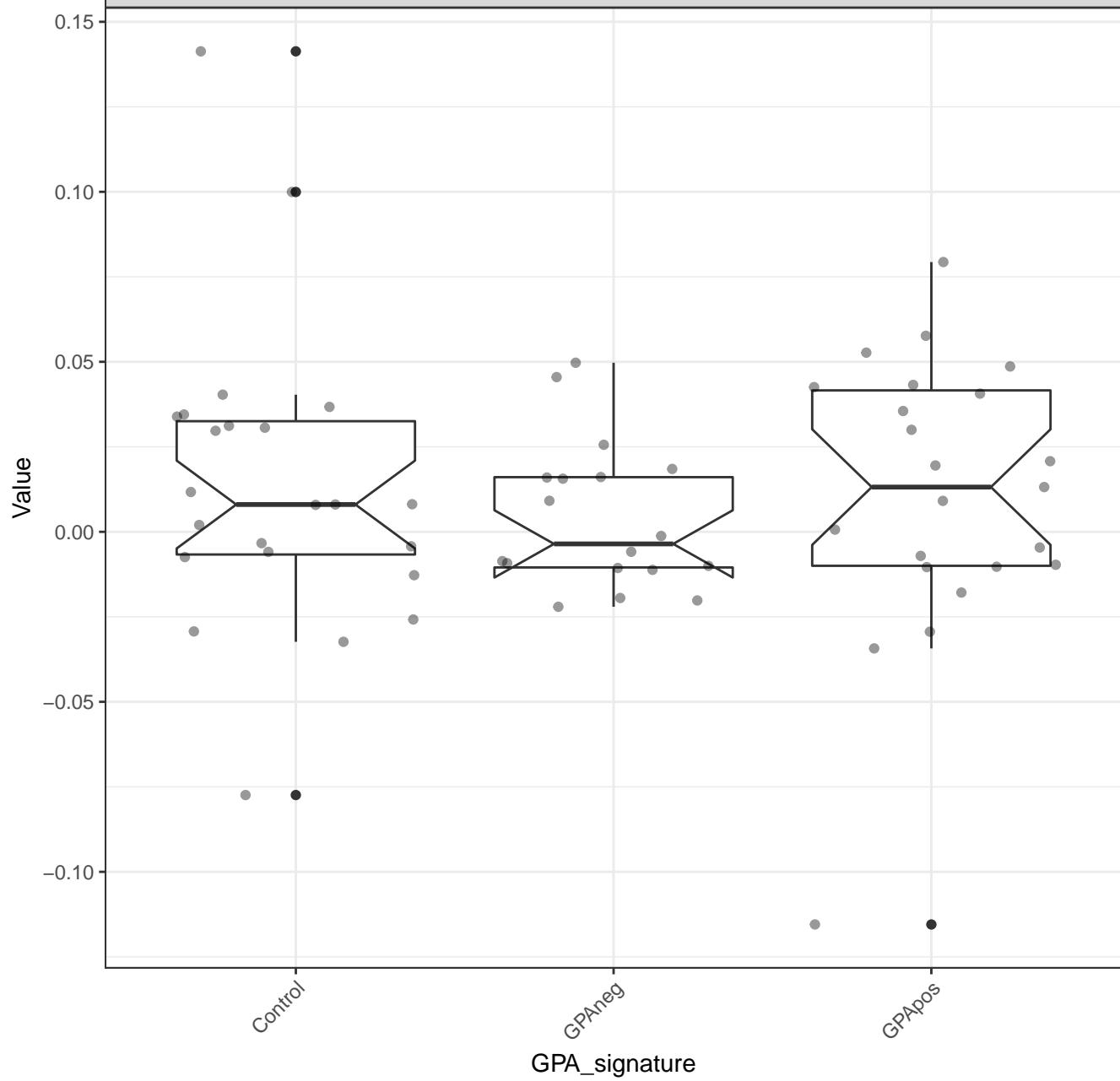
## LV 615



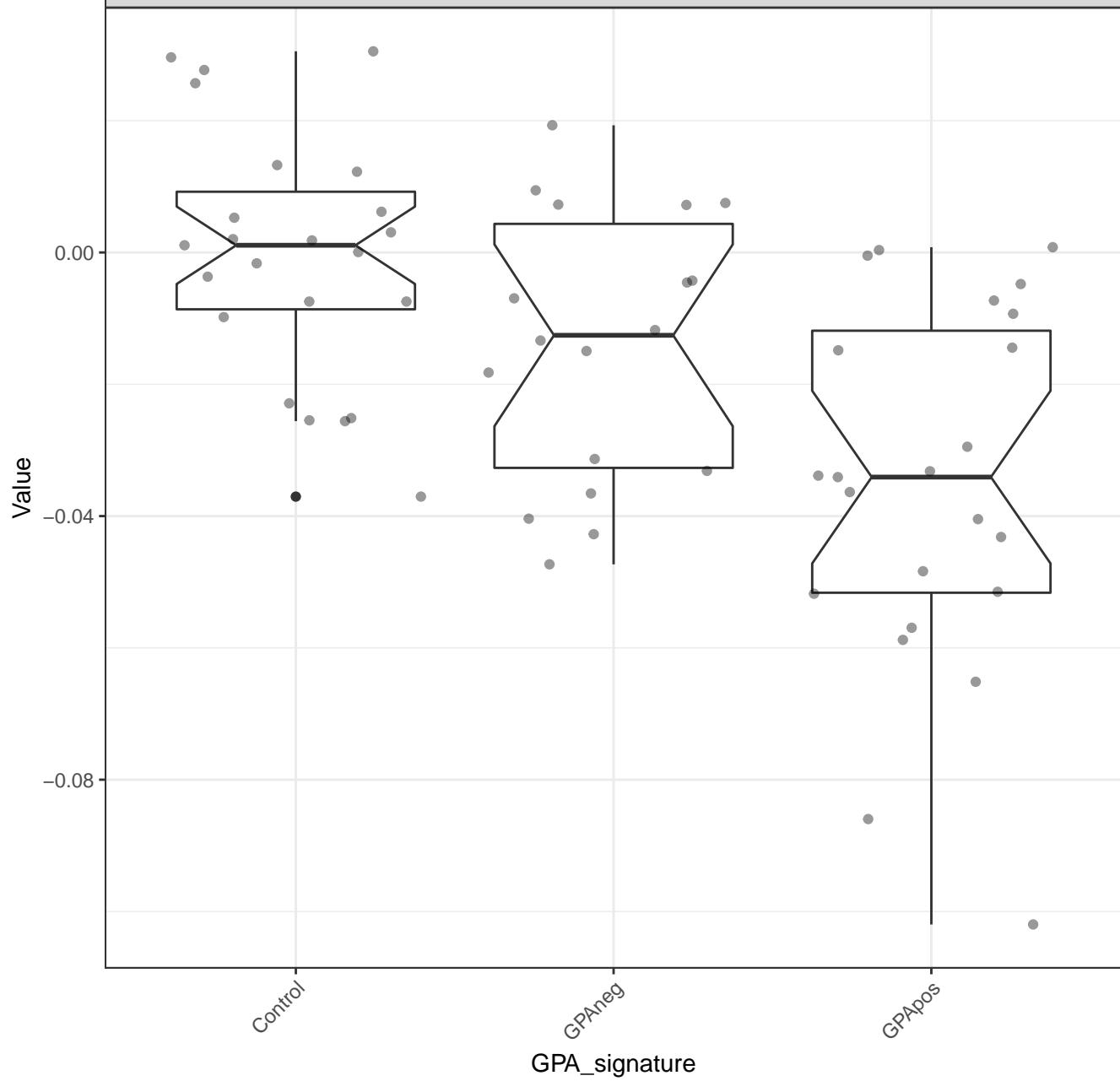
## LV 616

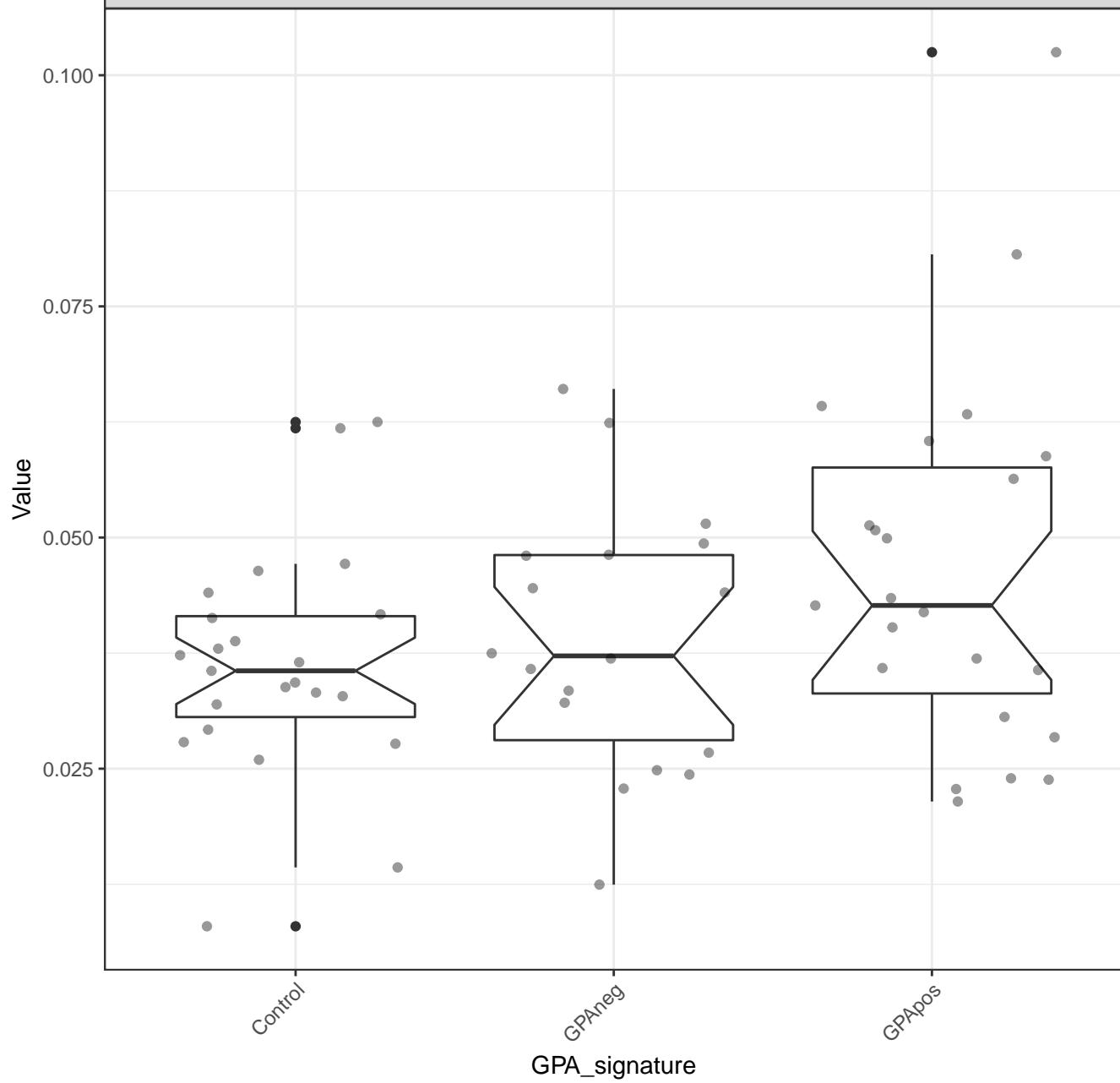


LV 617

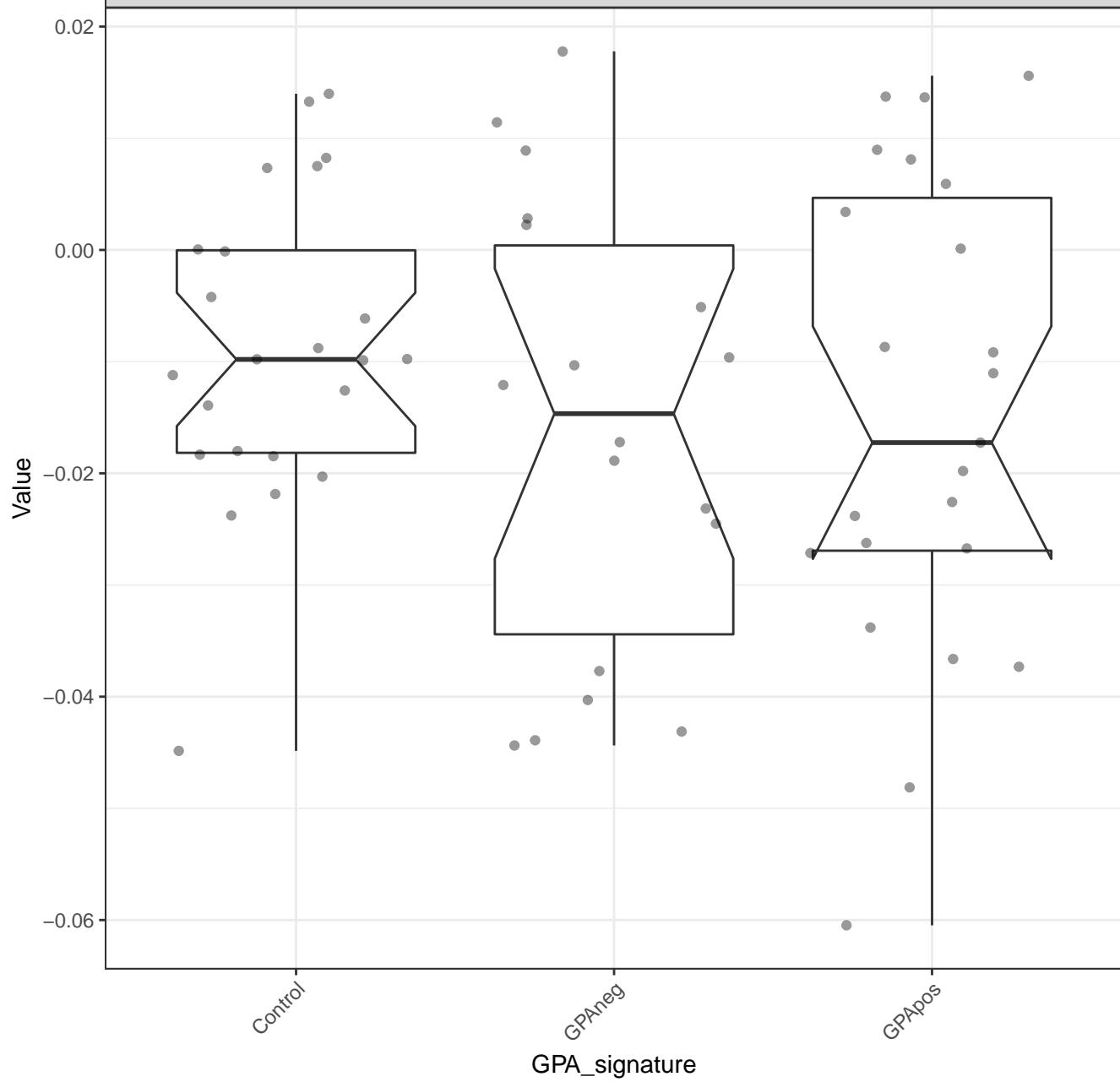


LV 618

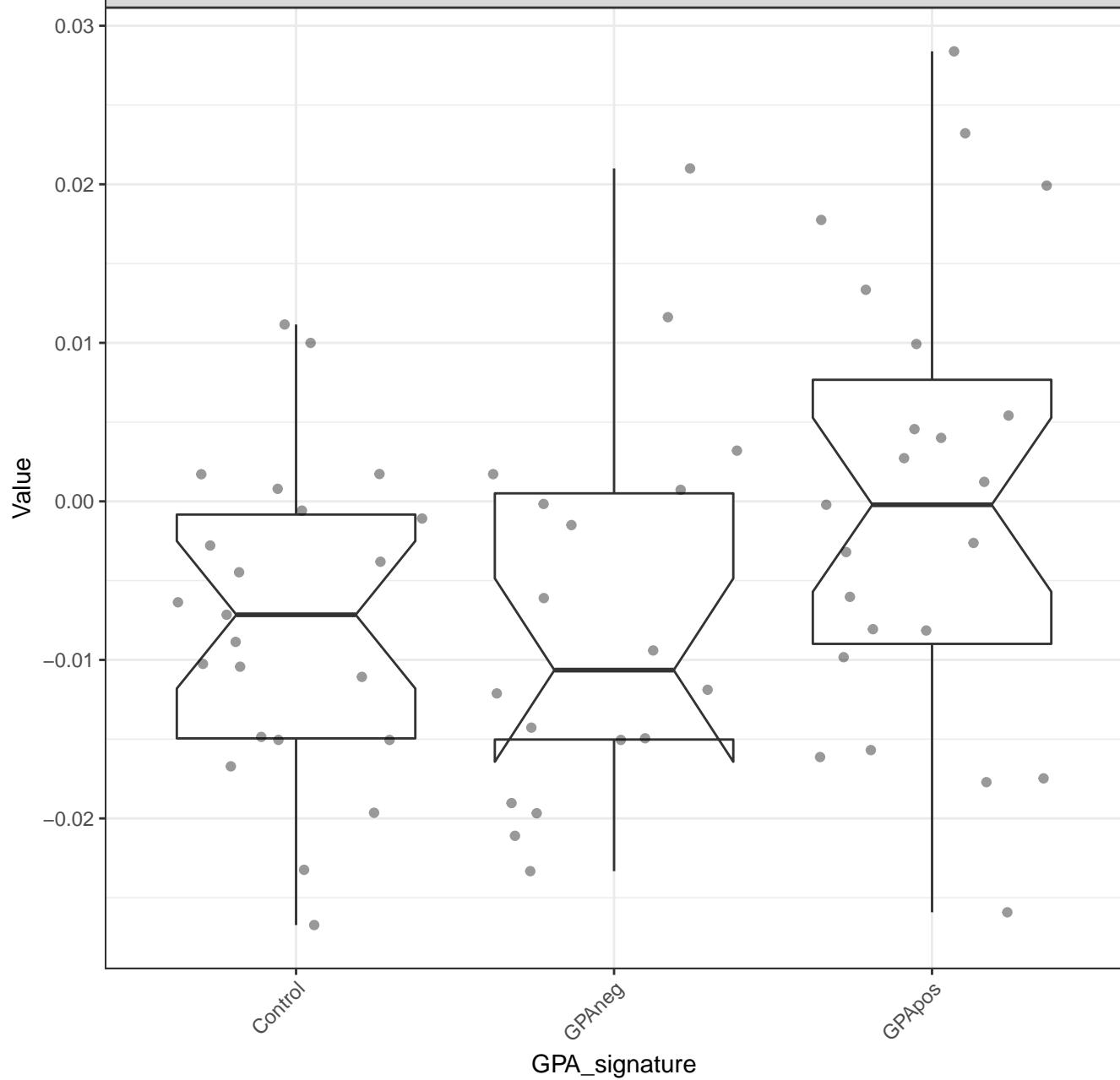


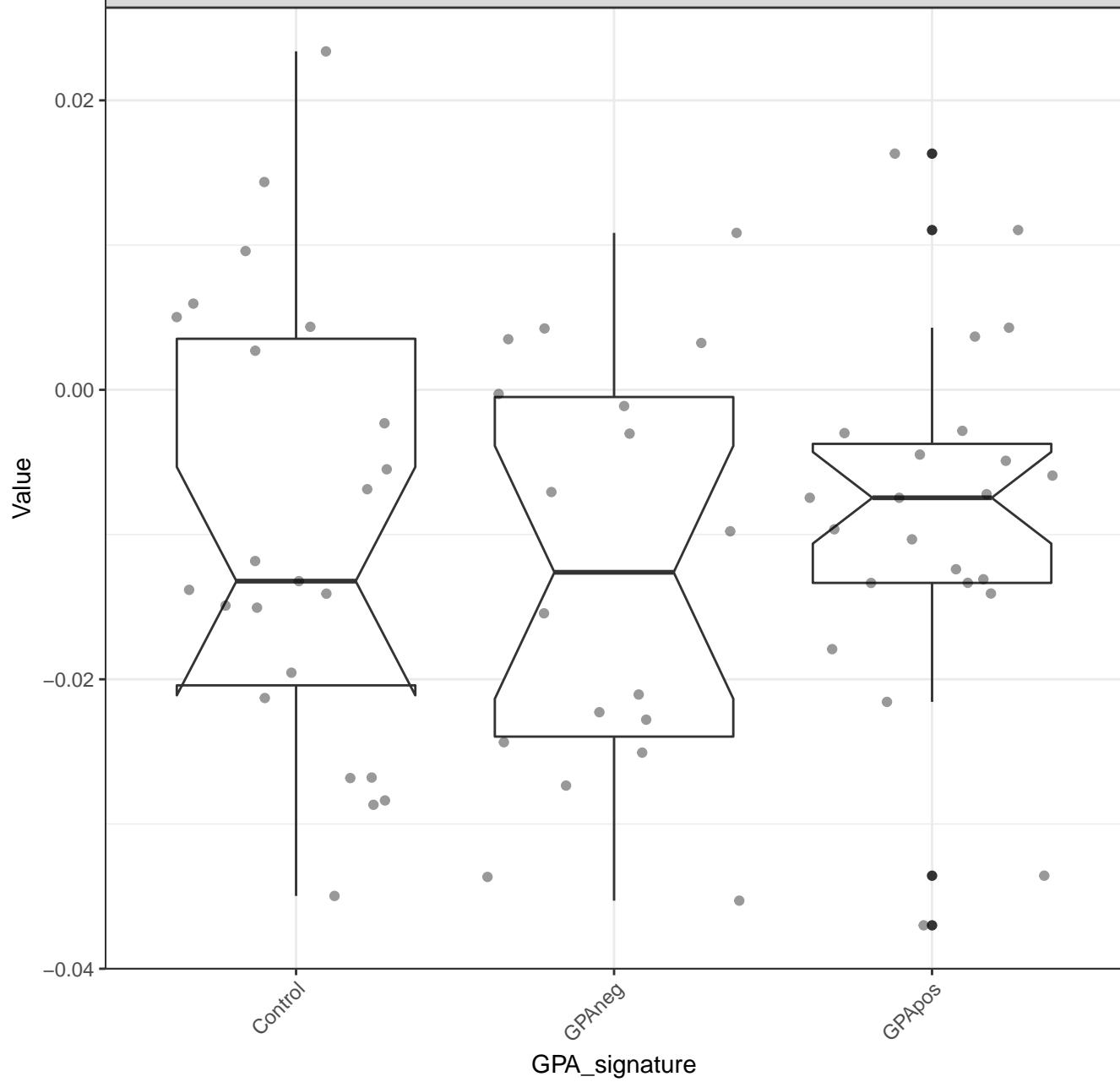


LV 620

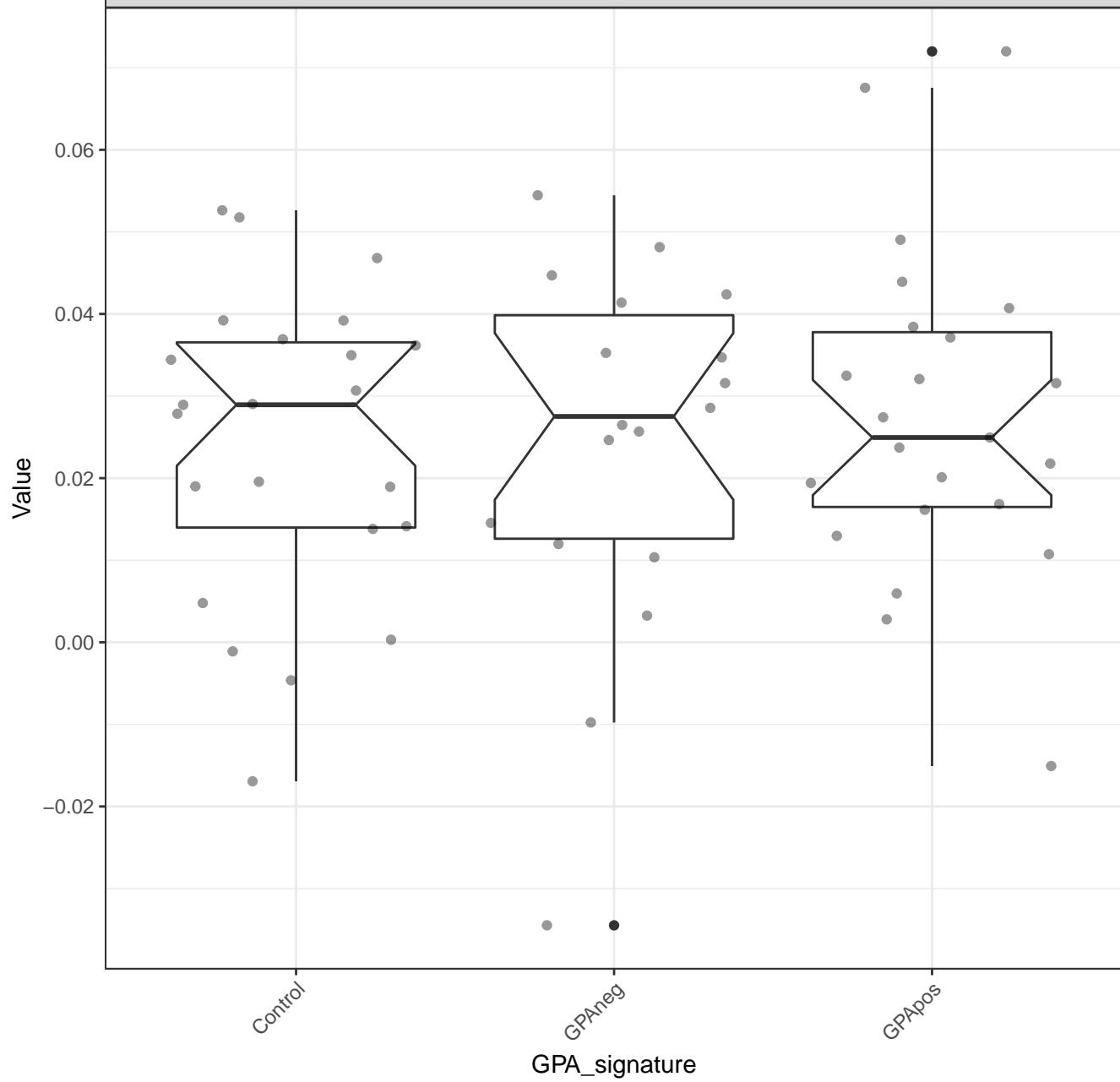


LV 621

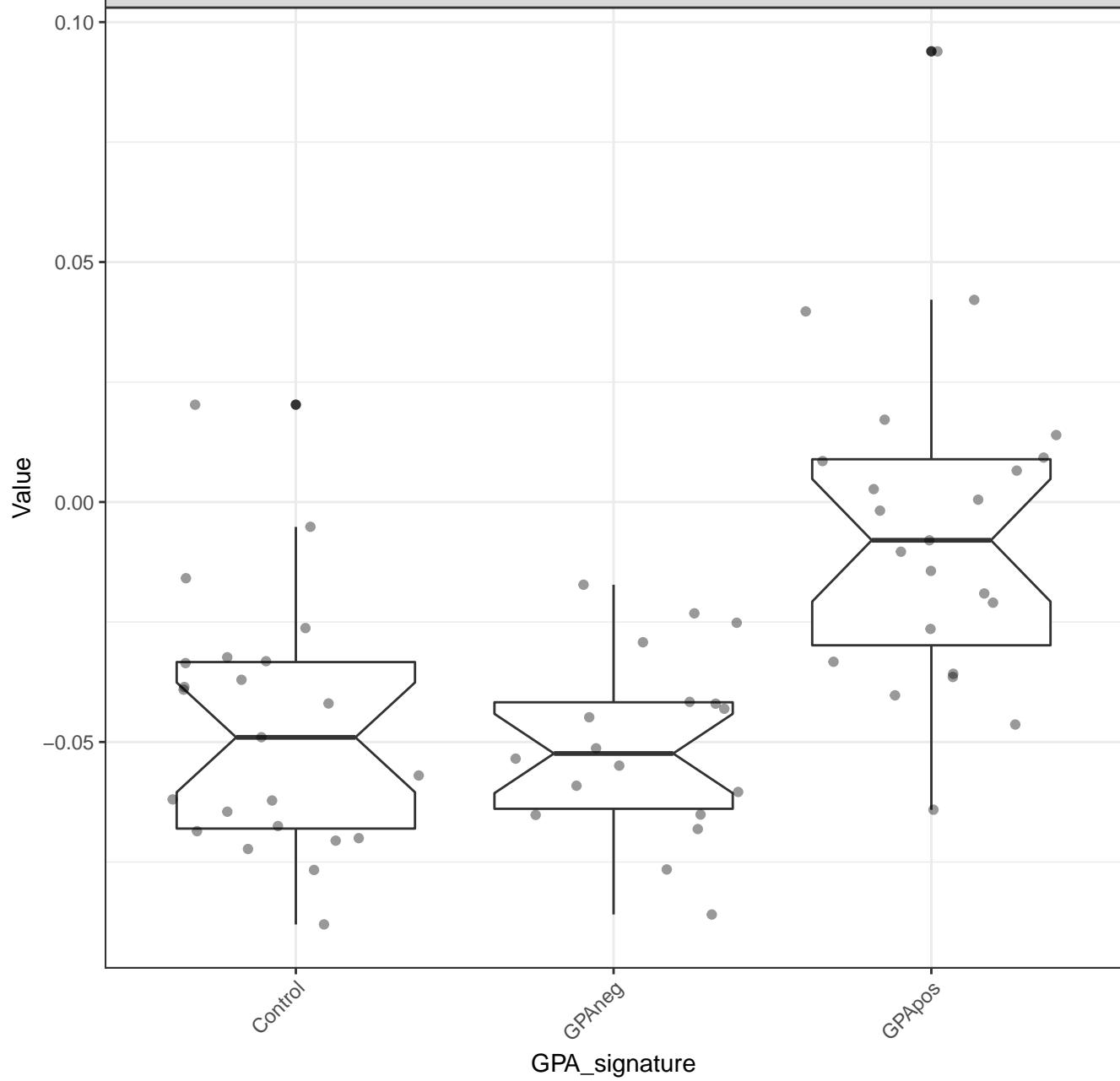


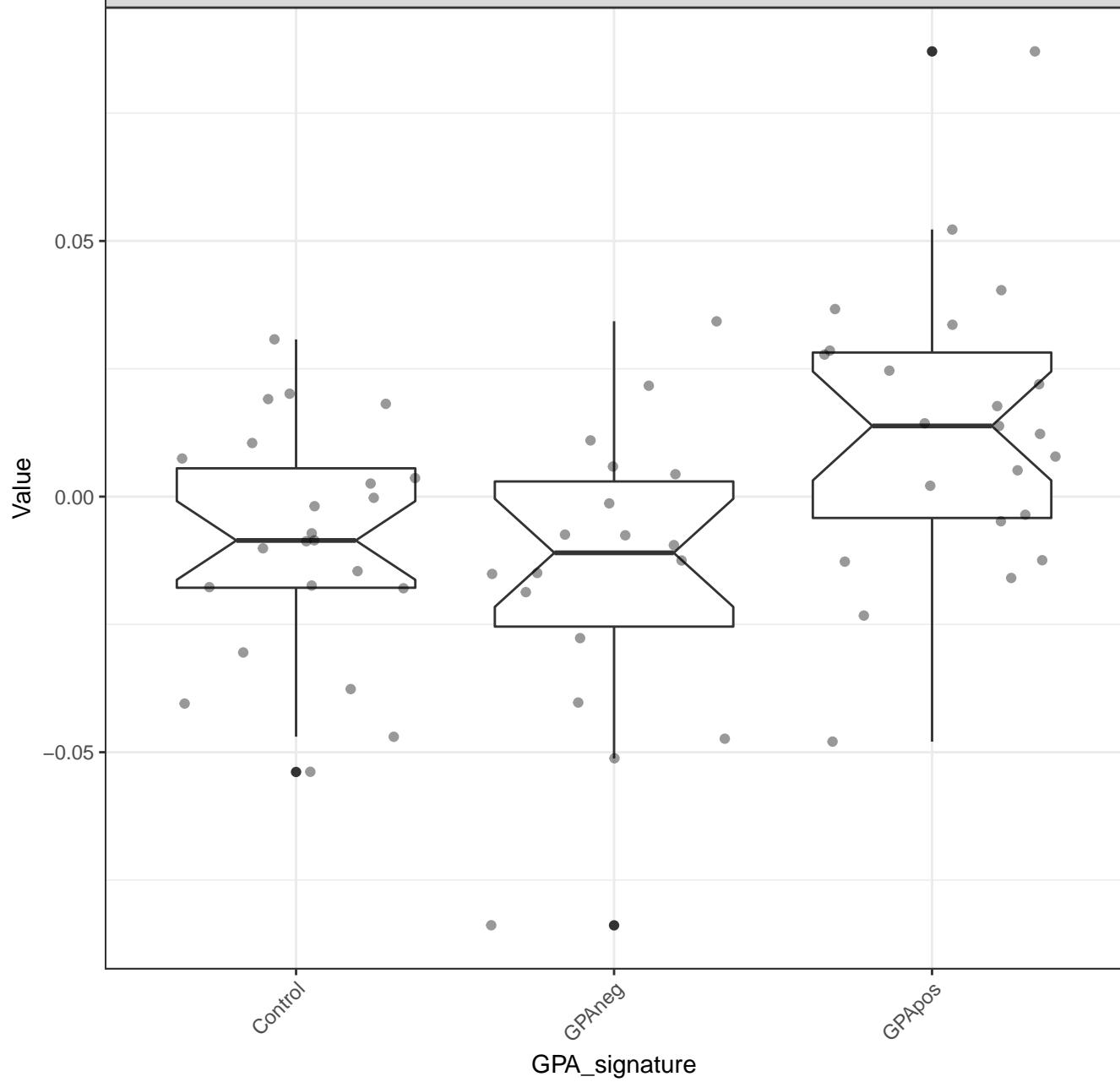


## LV 623

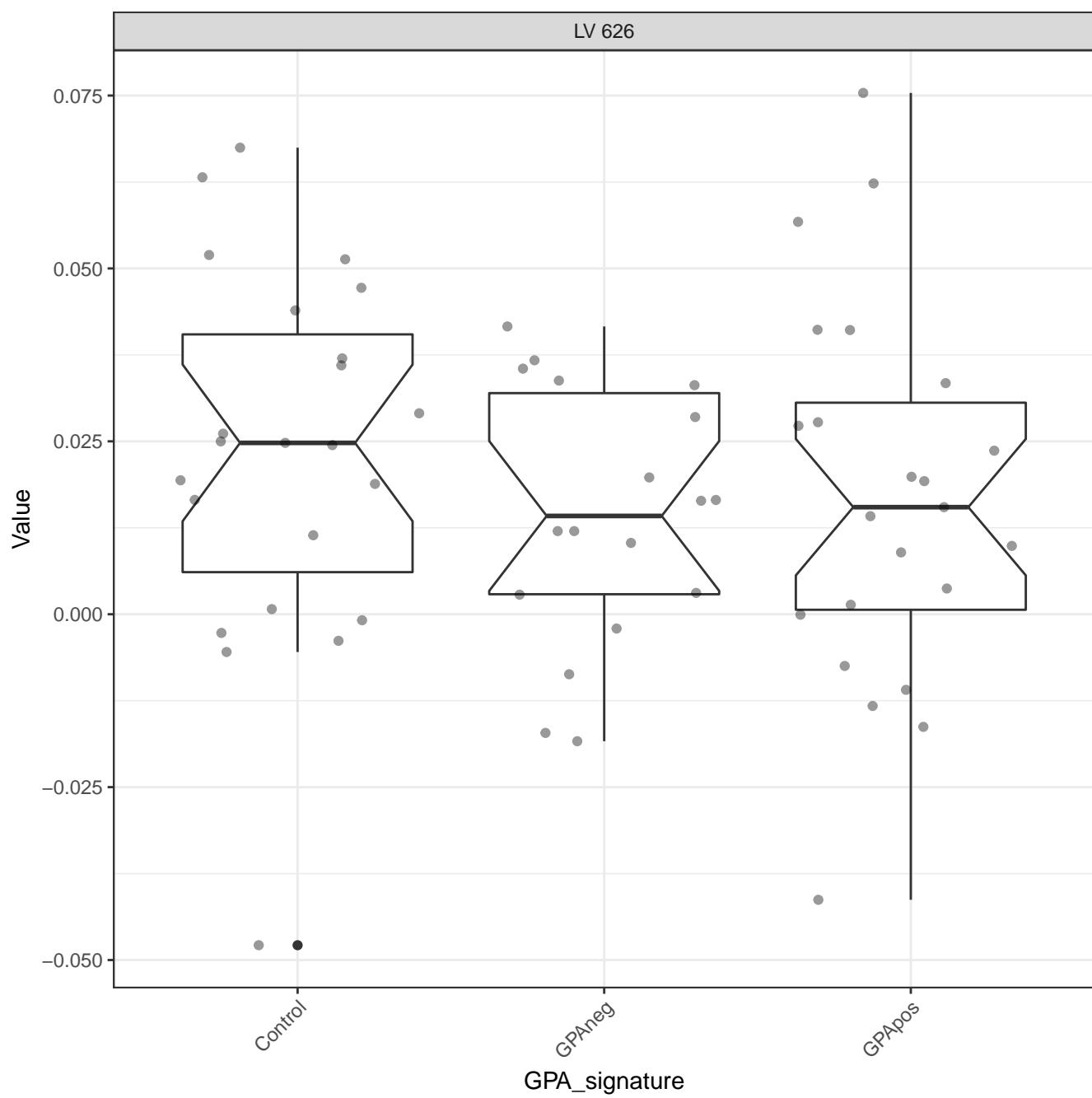


LV 624





LV 626



LV 627

Value

0.04

0.02

0.00

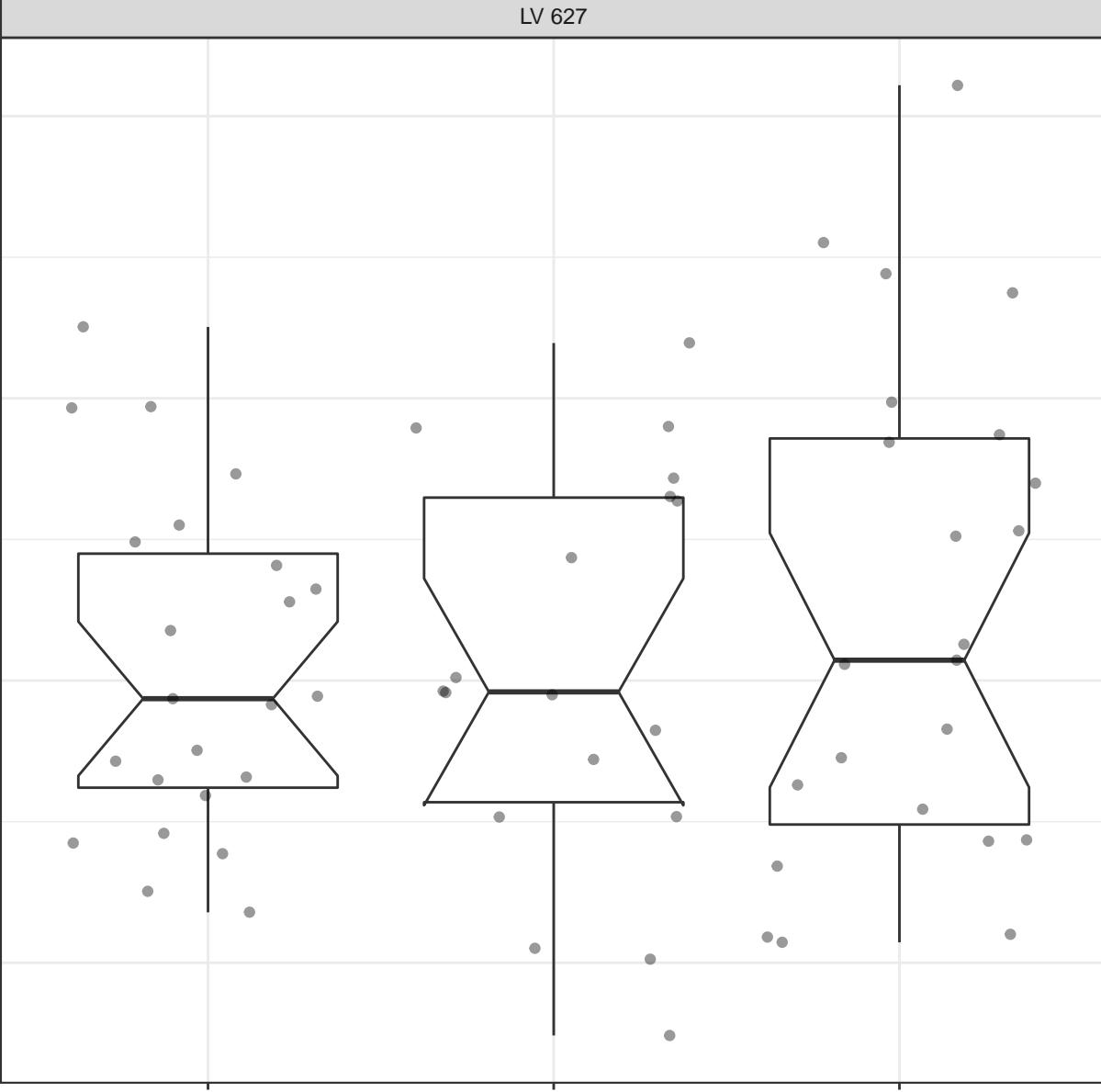
-0.02

Control

GPA\_signature

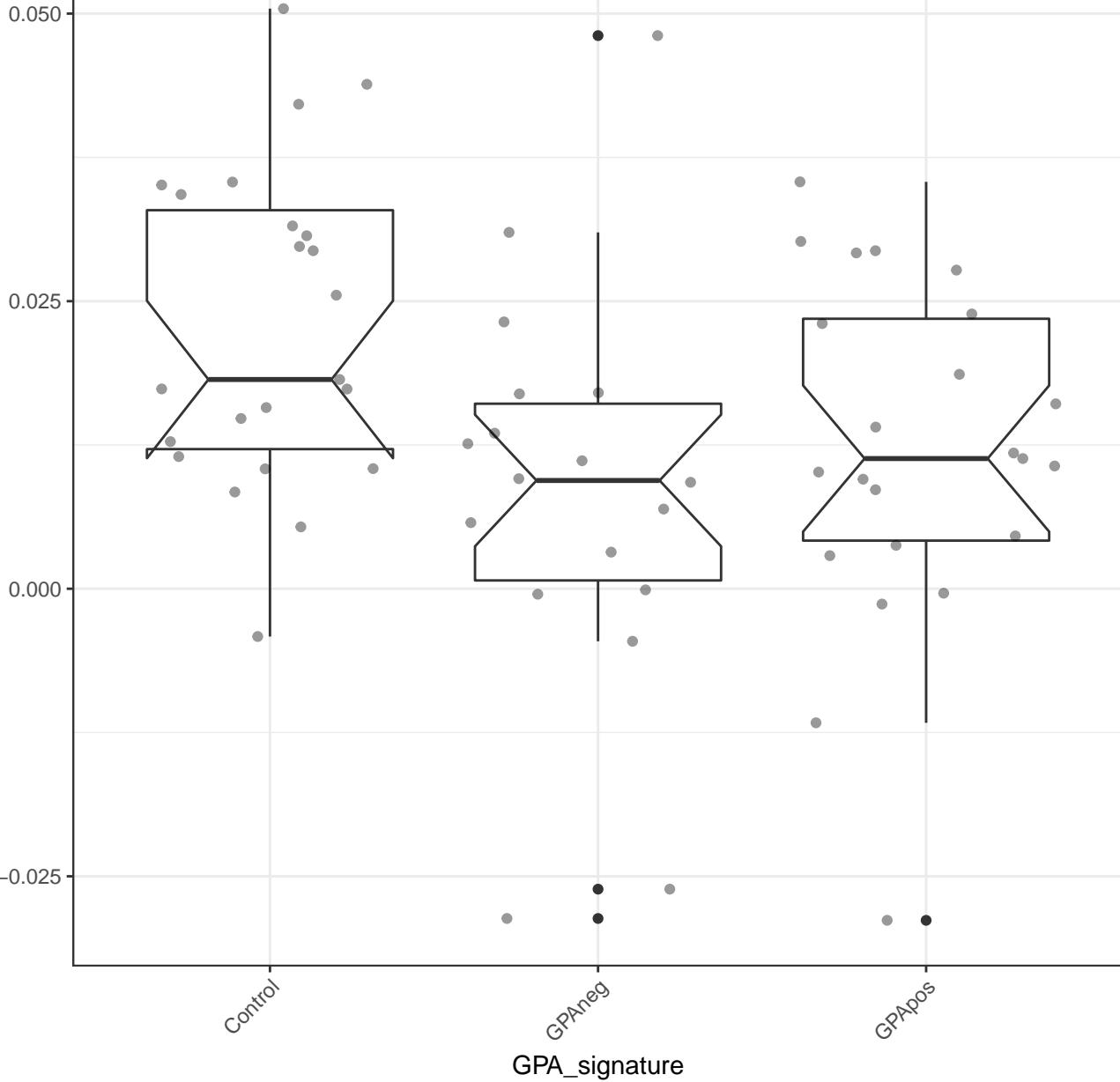
GPAneg

GPApos



## LV 628

Value



LV 629

Value

0.05

0.01

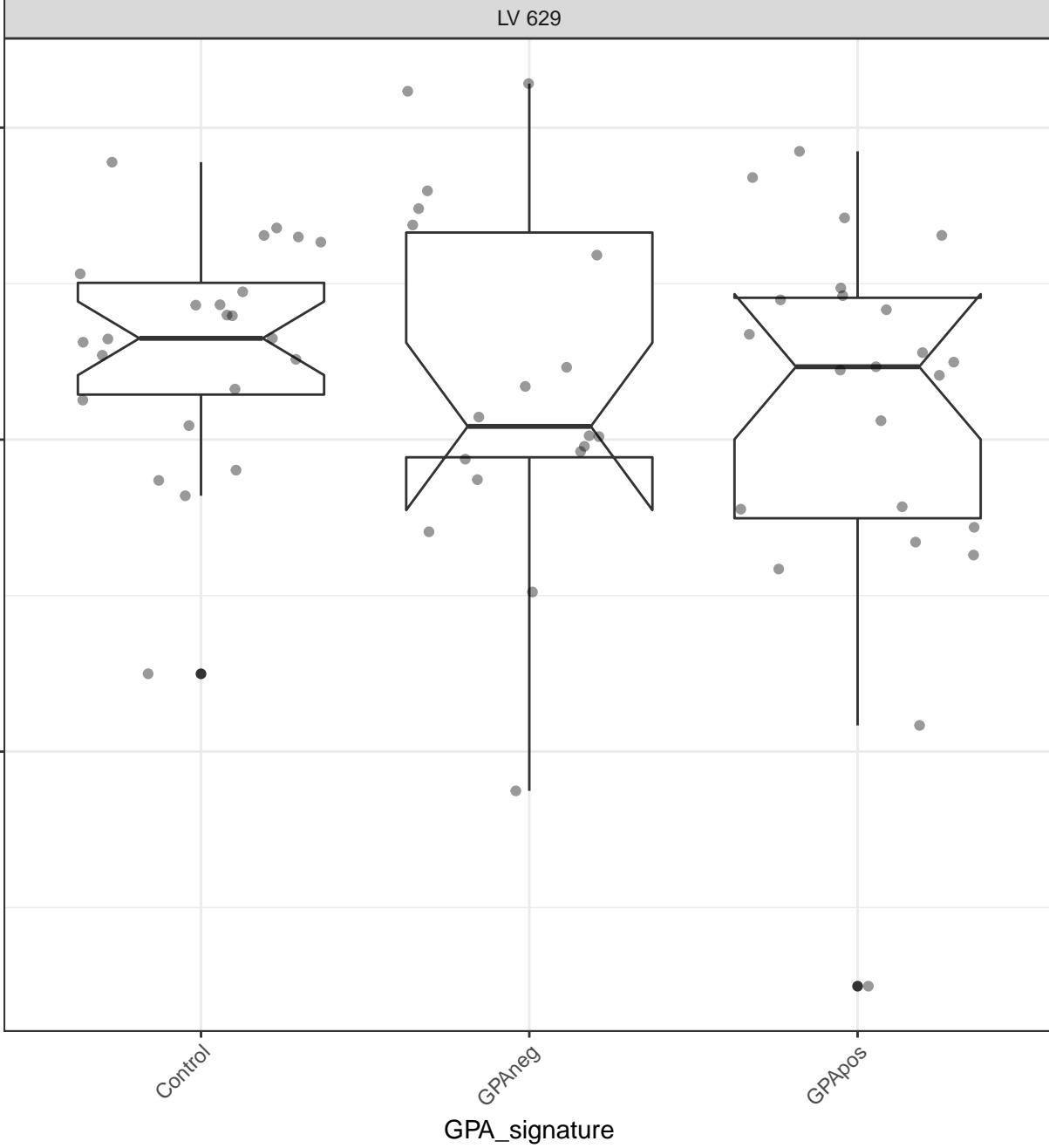
-0.05

Control

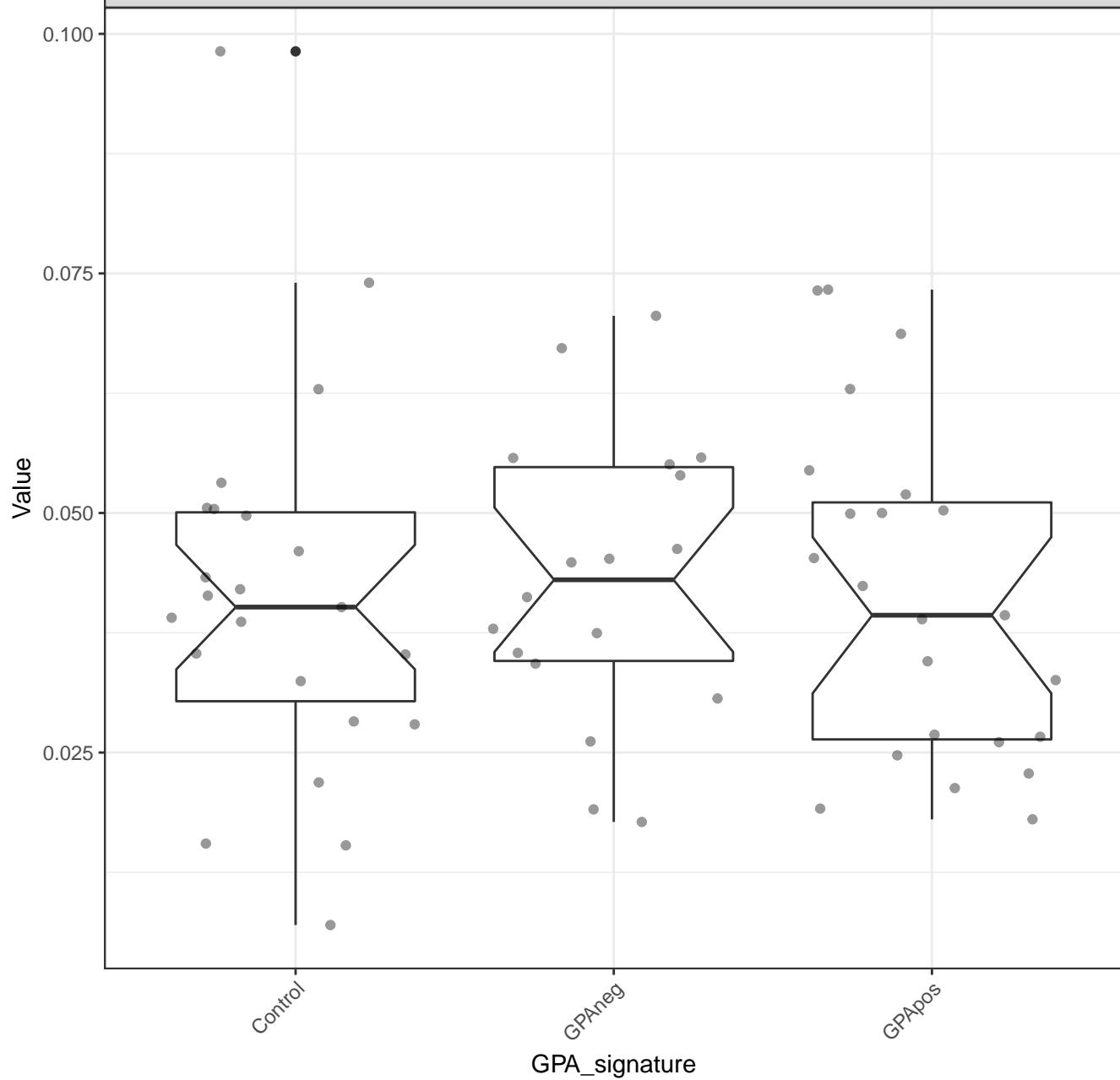
GPAneg

GPApos

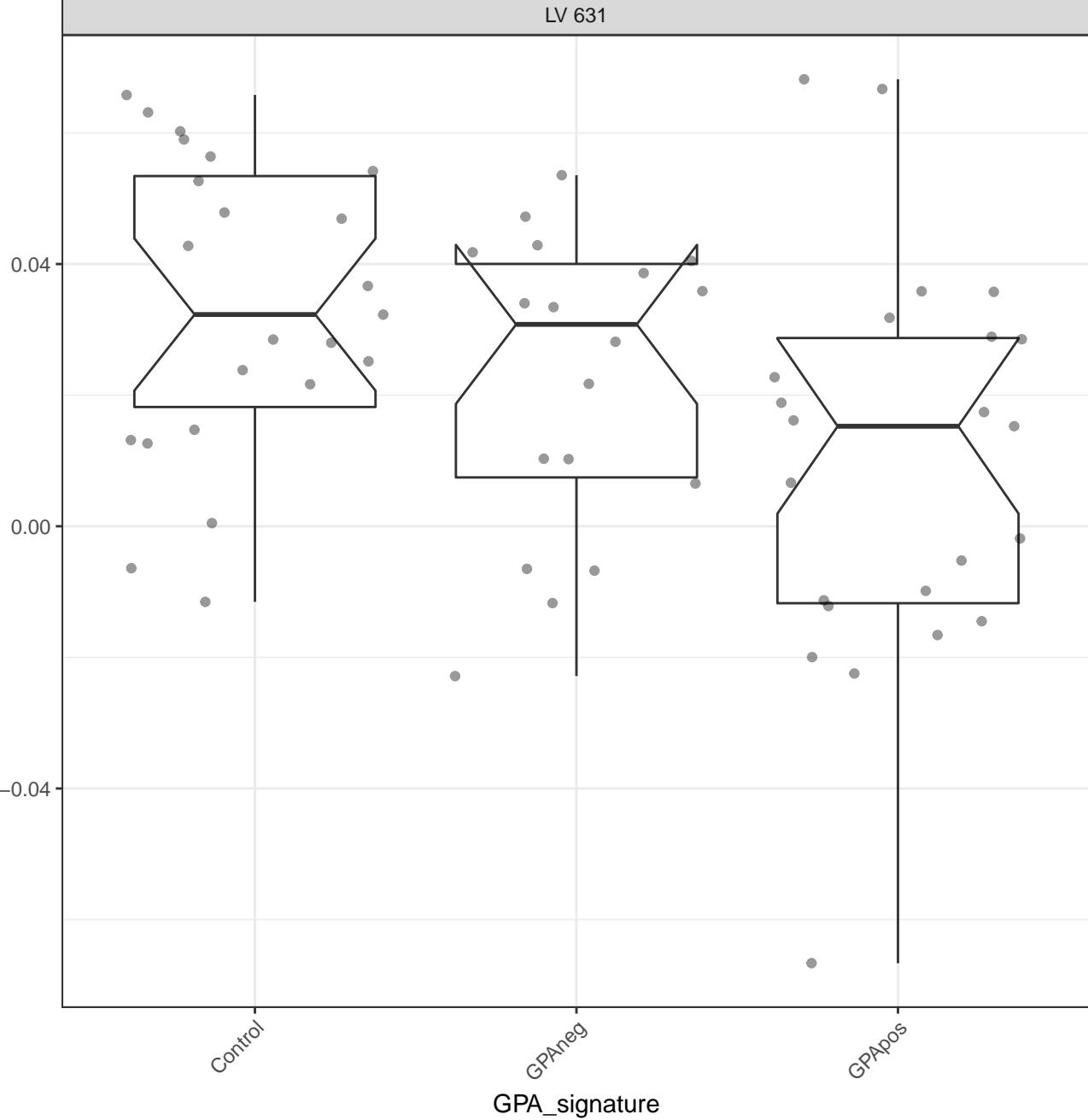
GPA\_signature



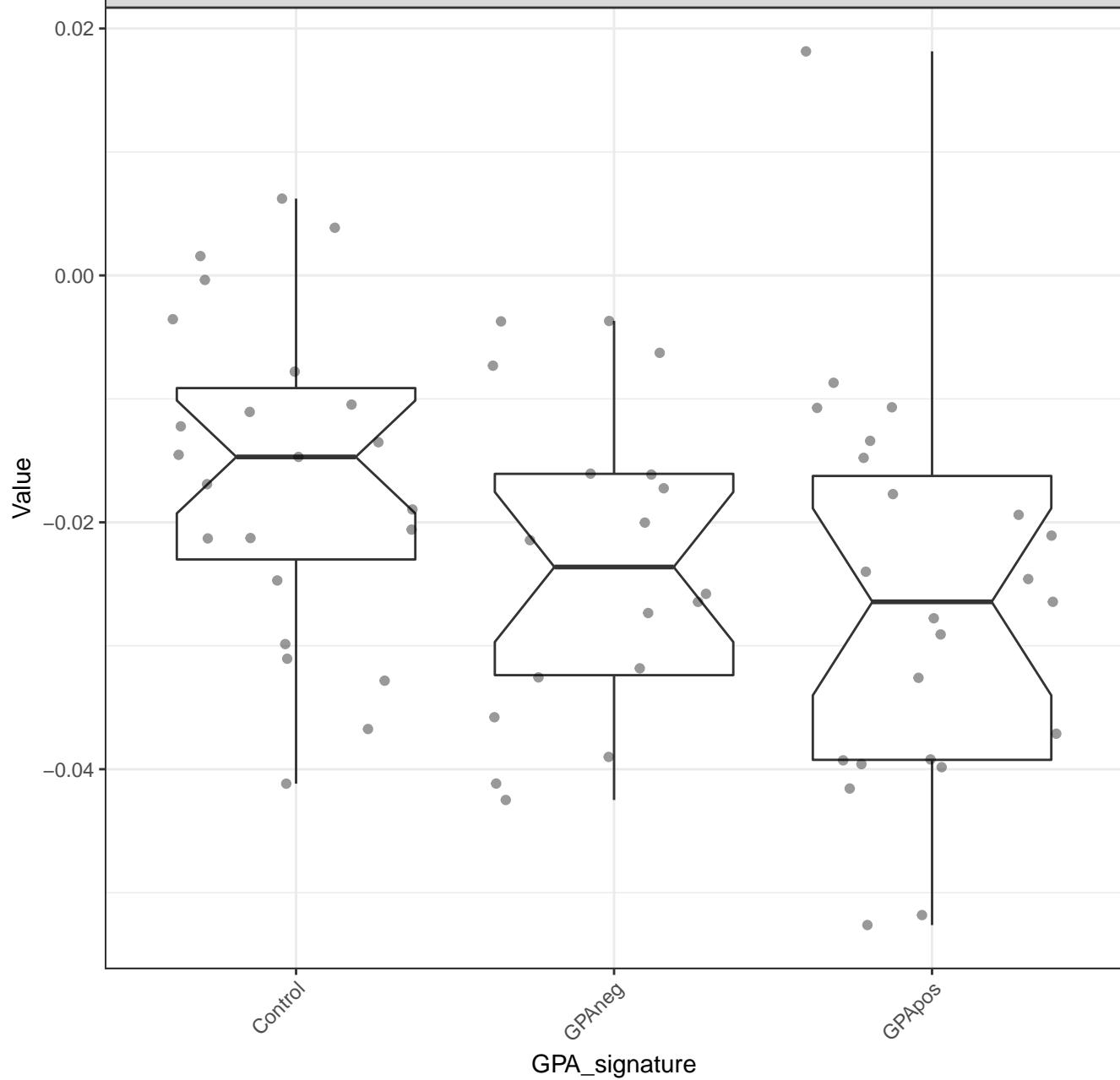
LV 630



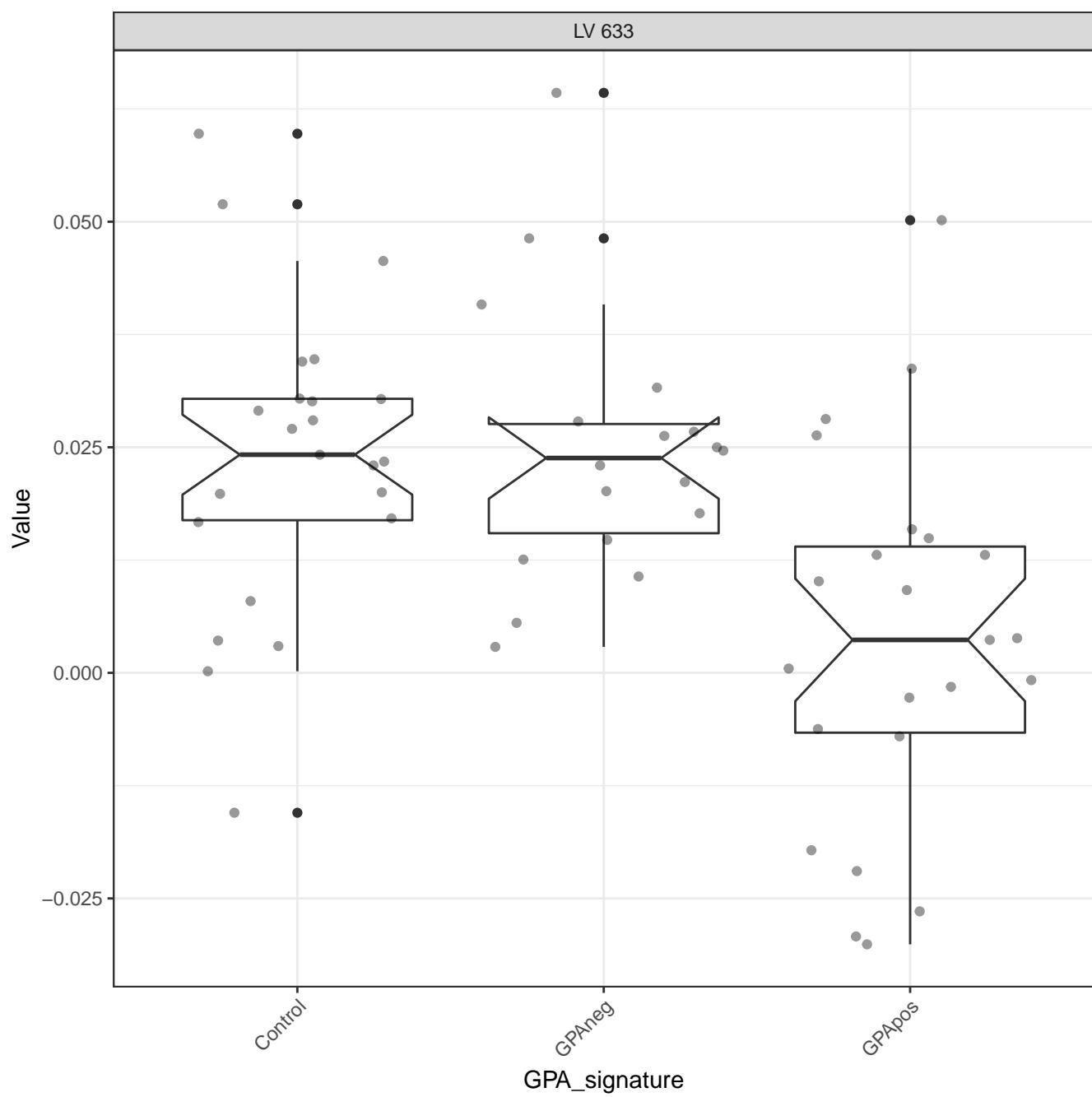
Value



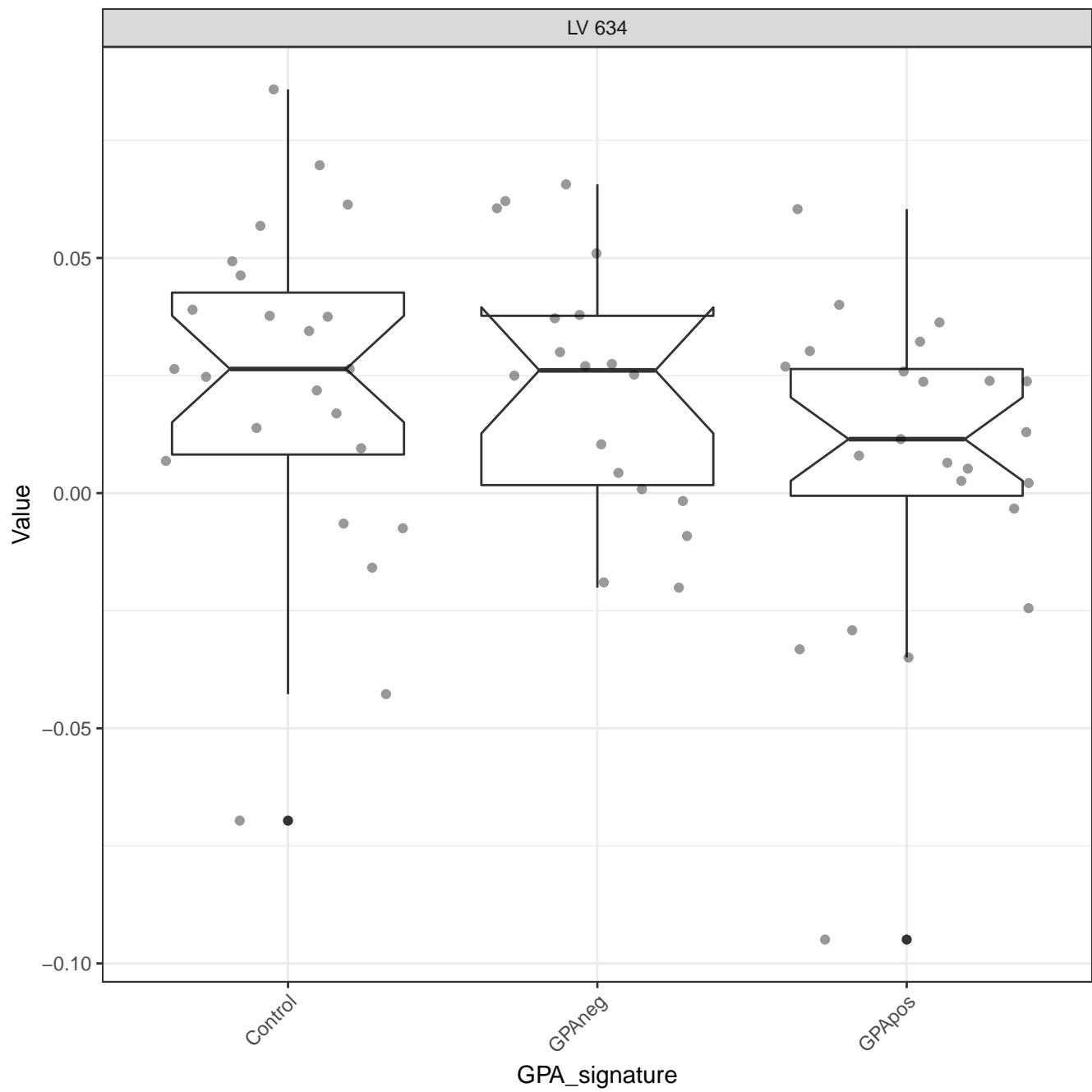
LV 632

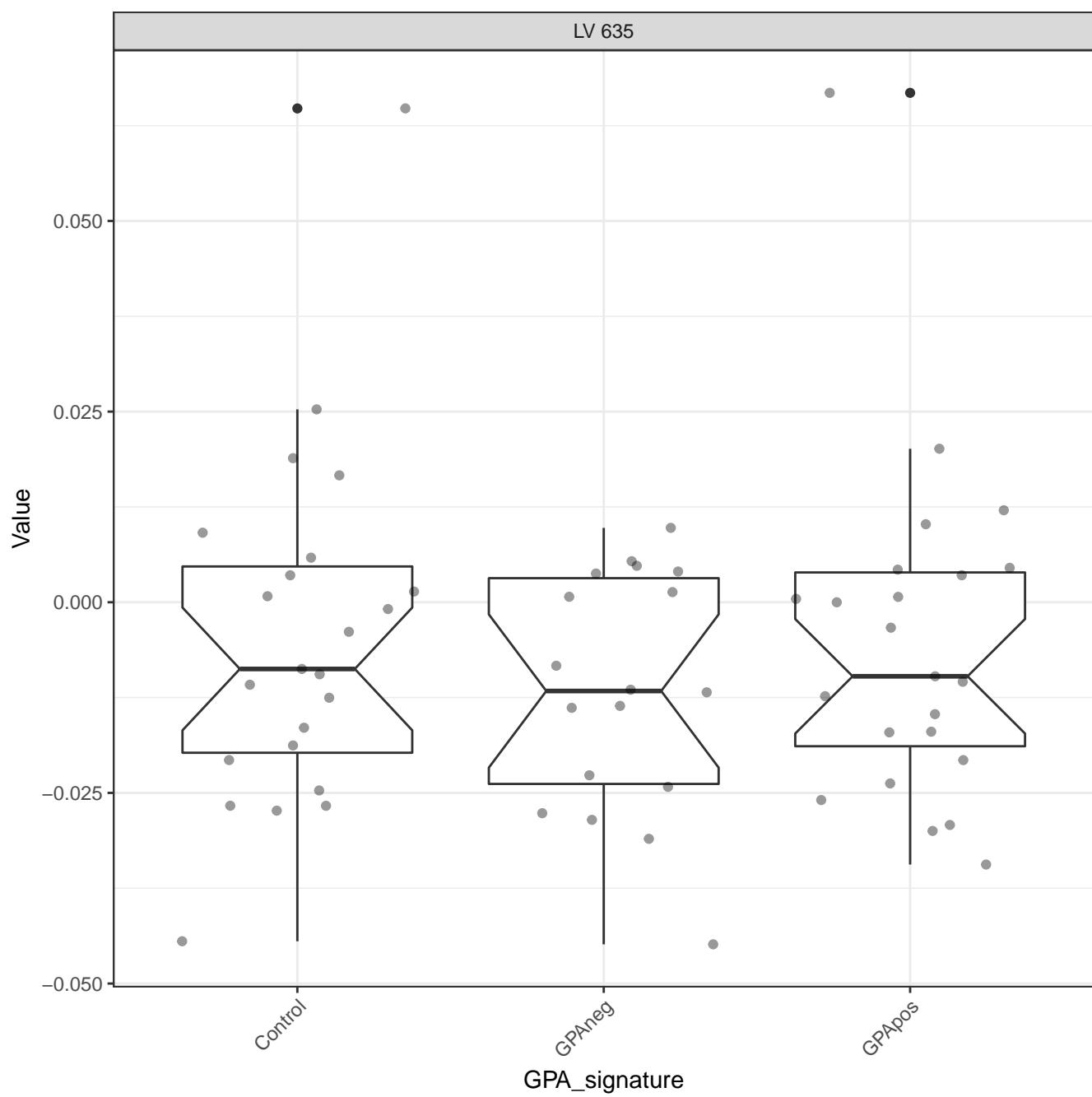


## LV 633

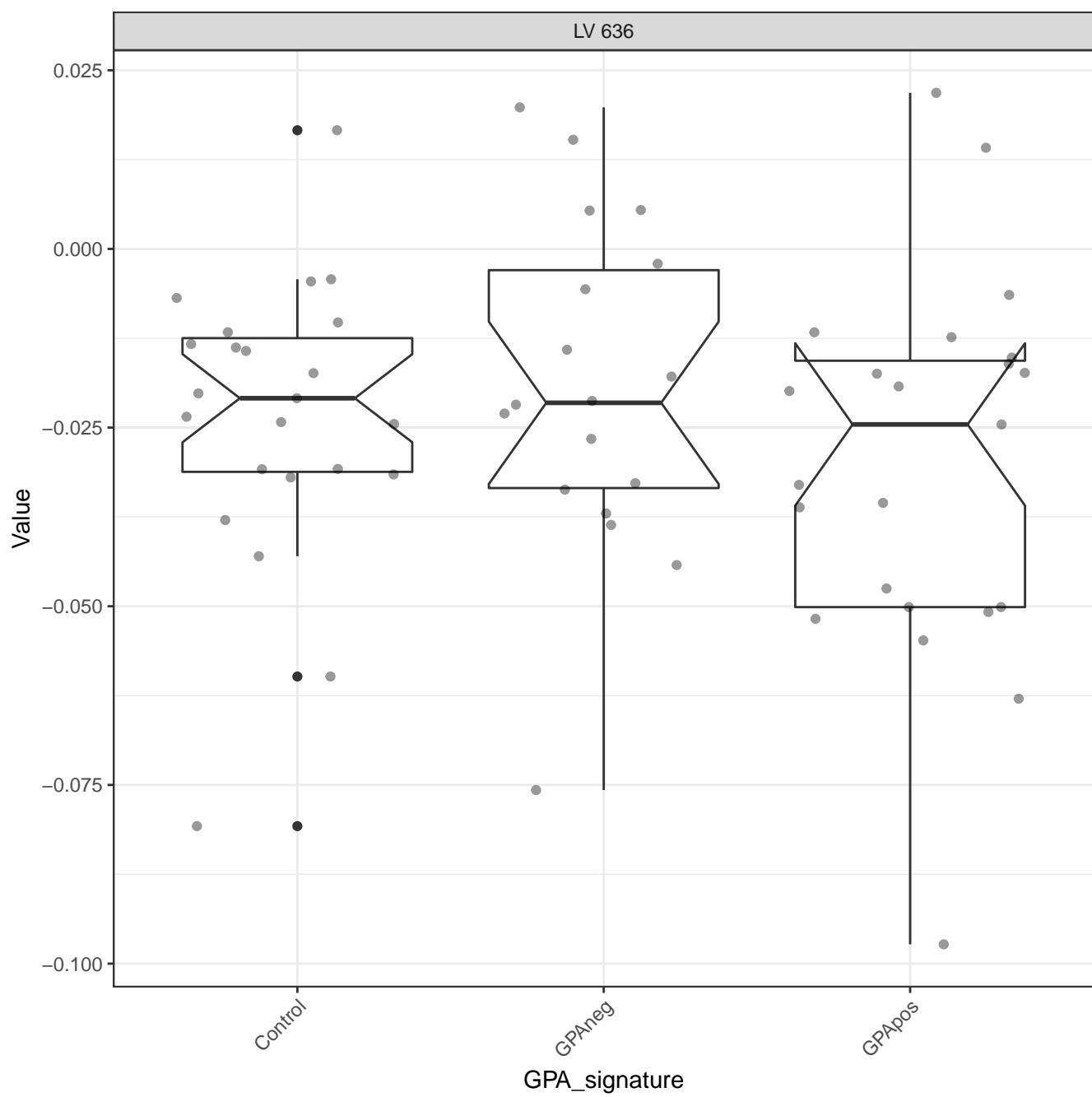


LV 634

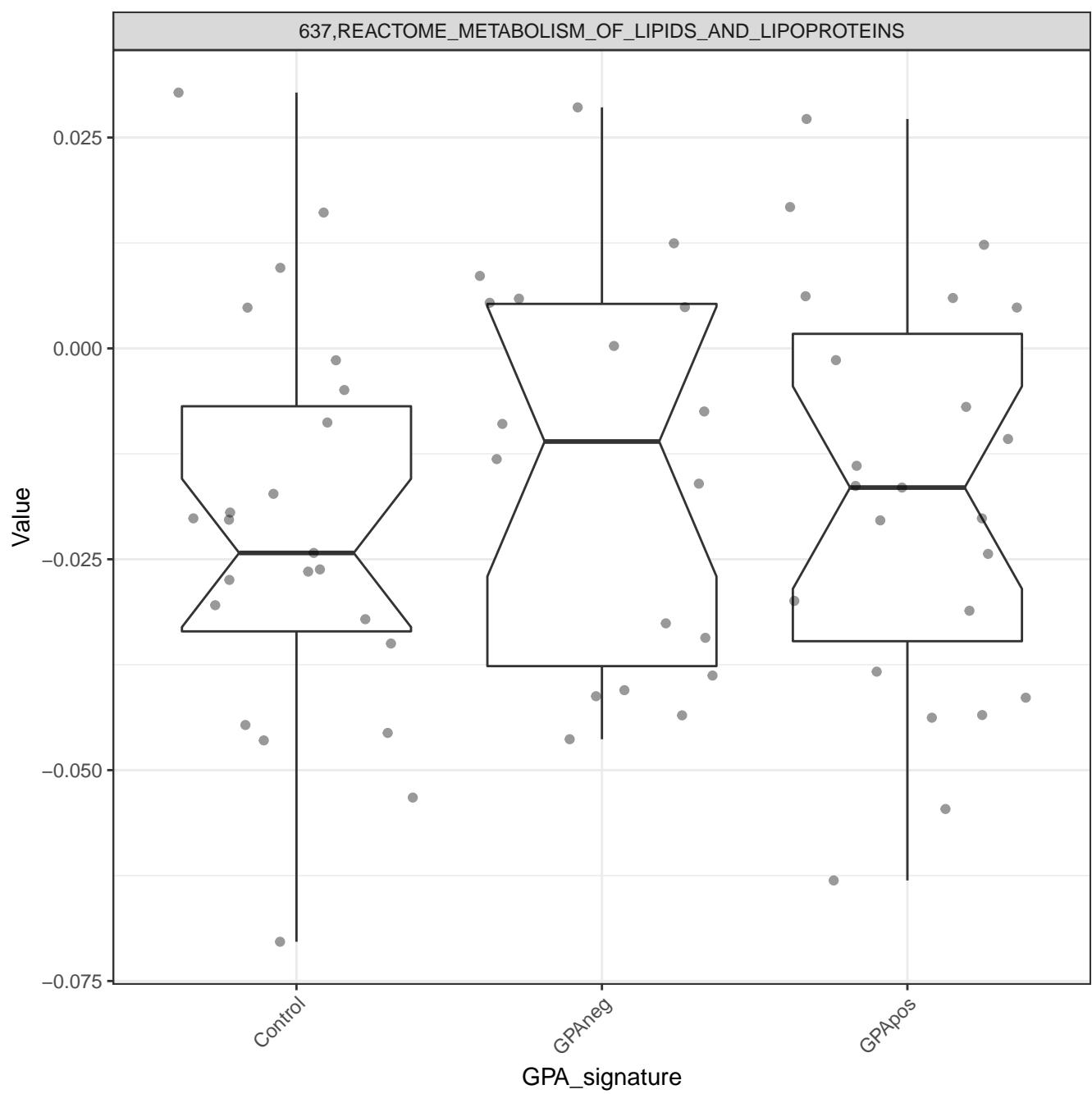




LV 636



## 637,REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS



LV 638

Value

0.08

0.04

0.00

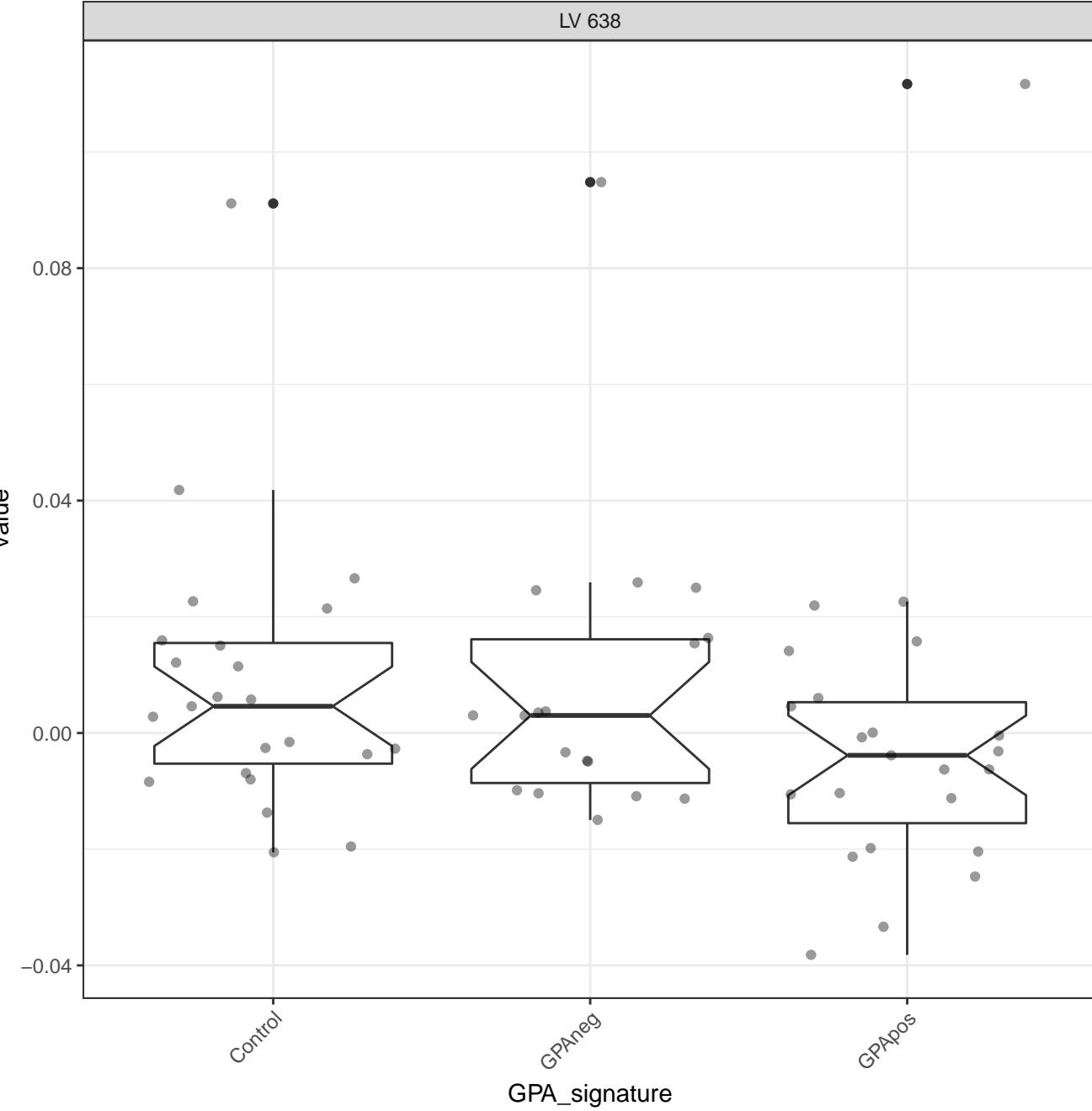
-0.04

Control

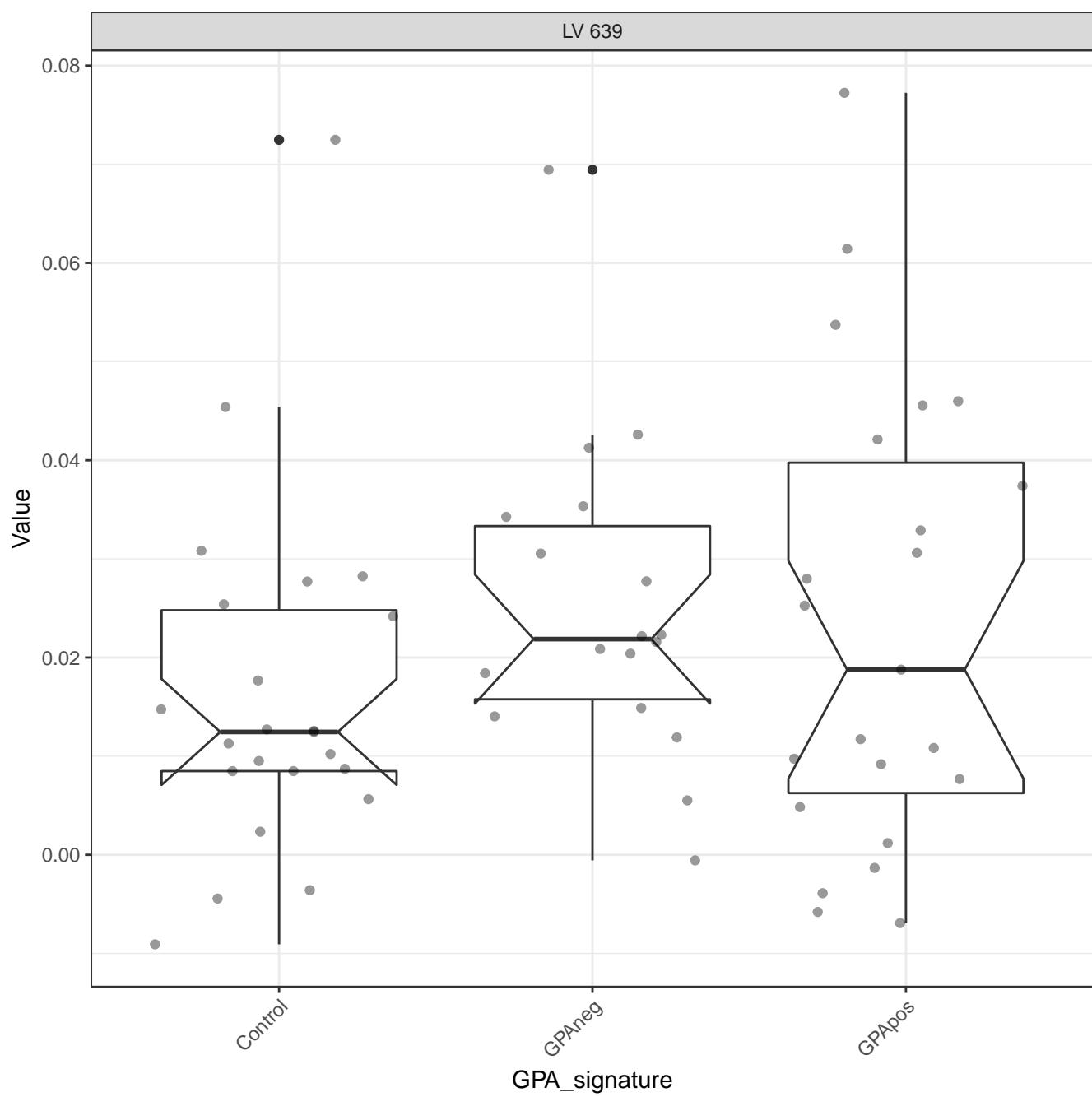
GPA\_signature

GPAneg

GPAPos



LV 639



LV 640

Value

0.00

-0.04

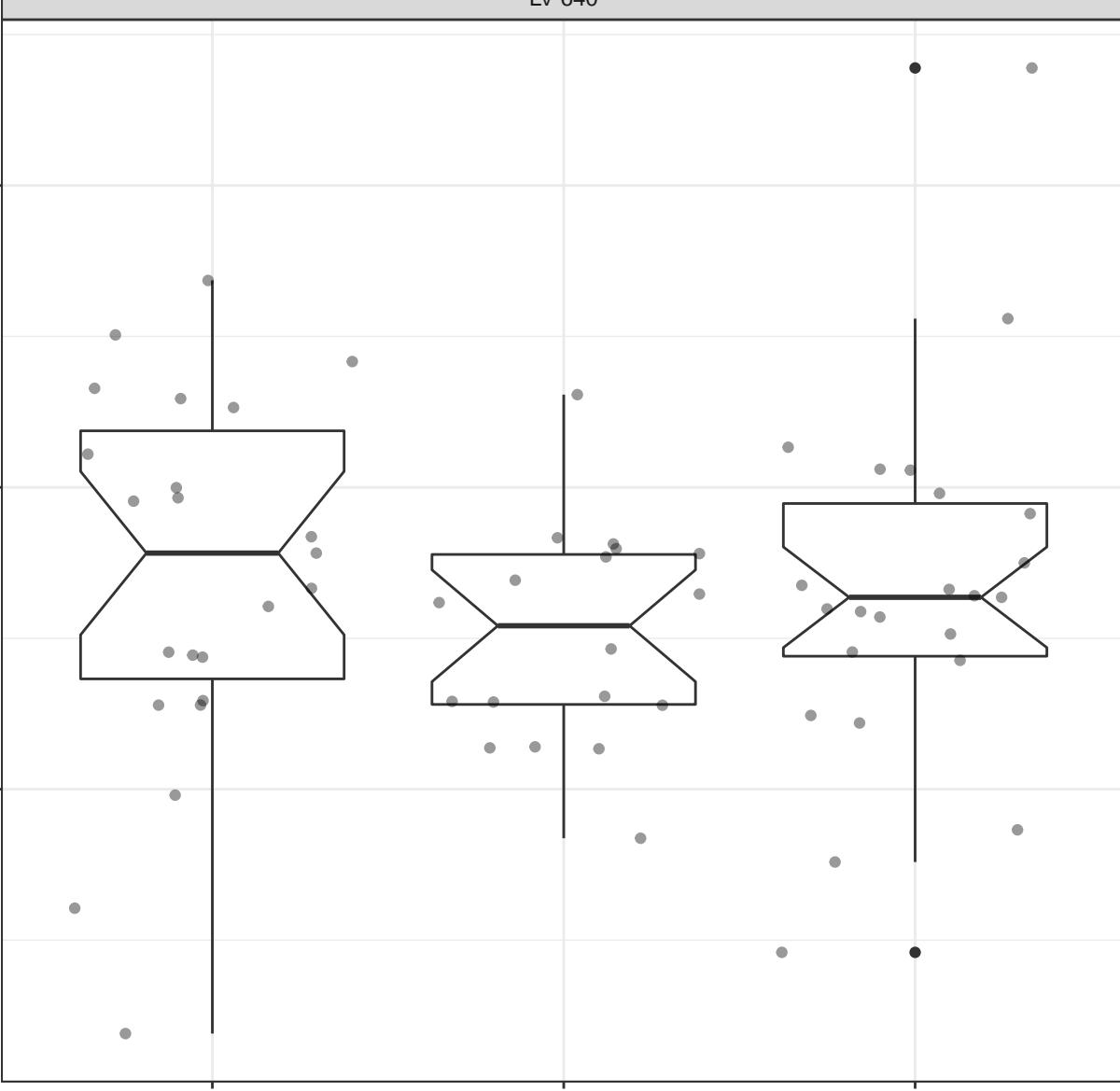
-0.08

Control

GPAneg

GPAPos

GPA\_signature



LV 641

Value

0.050

0.025

0.000

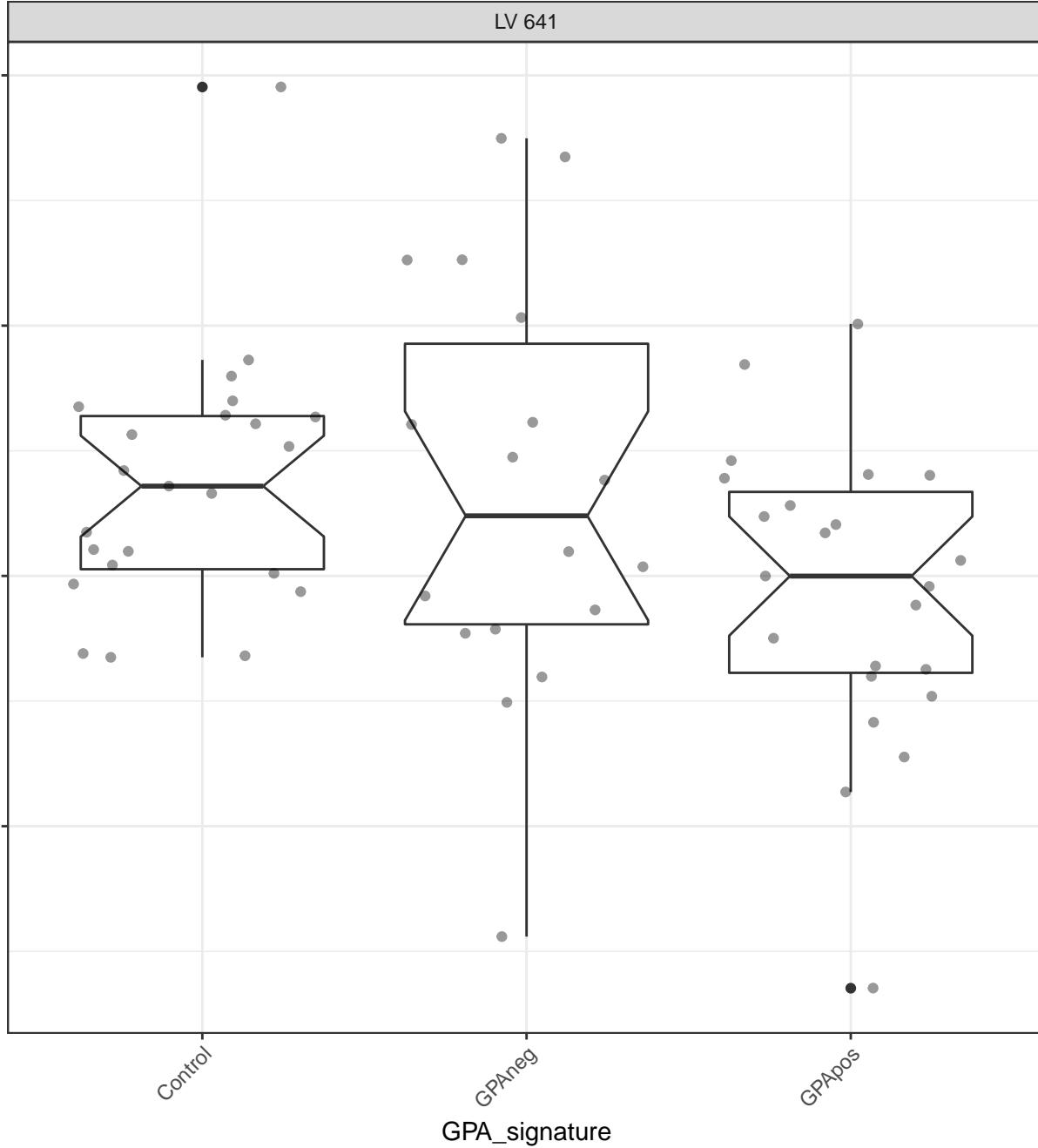
-0.025

Control

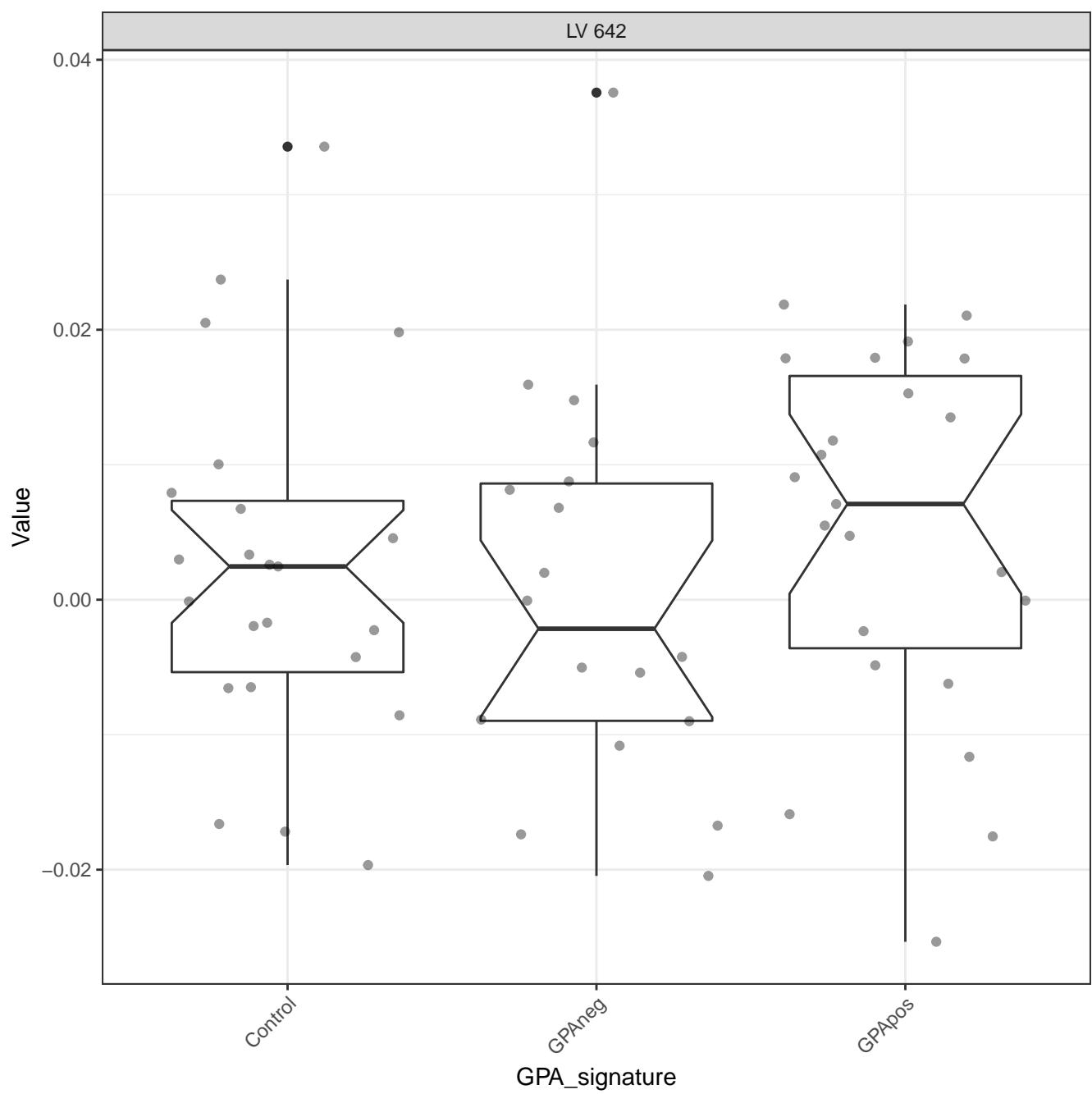
GPAneg

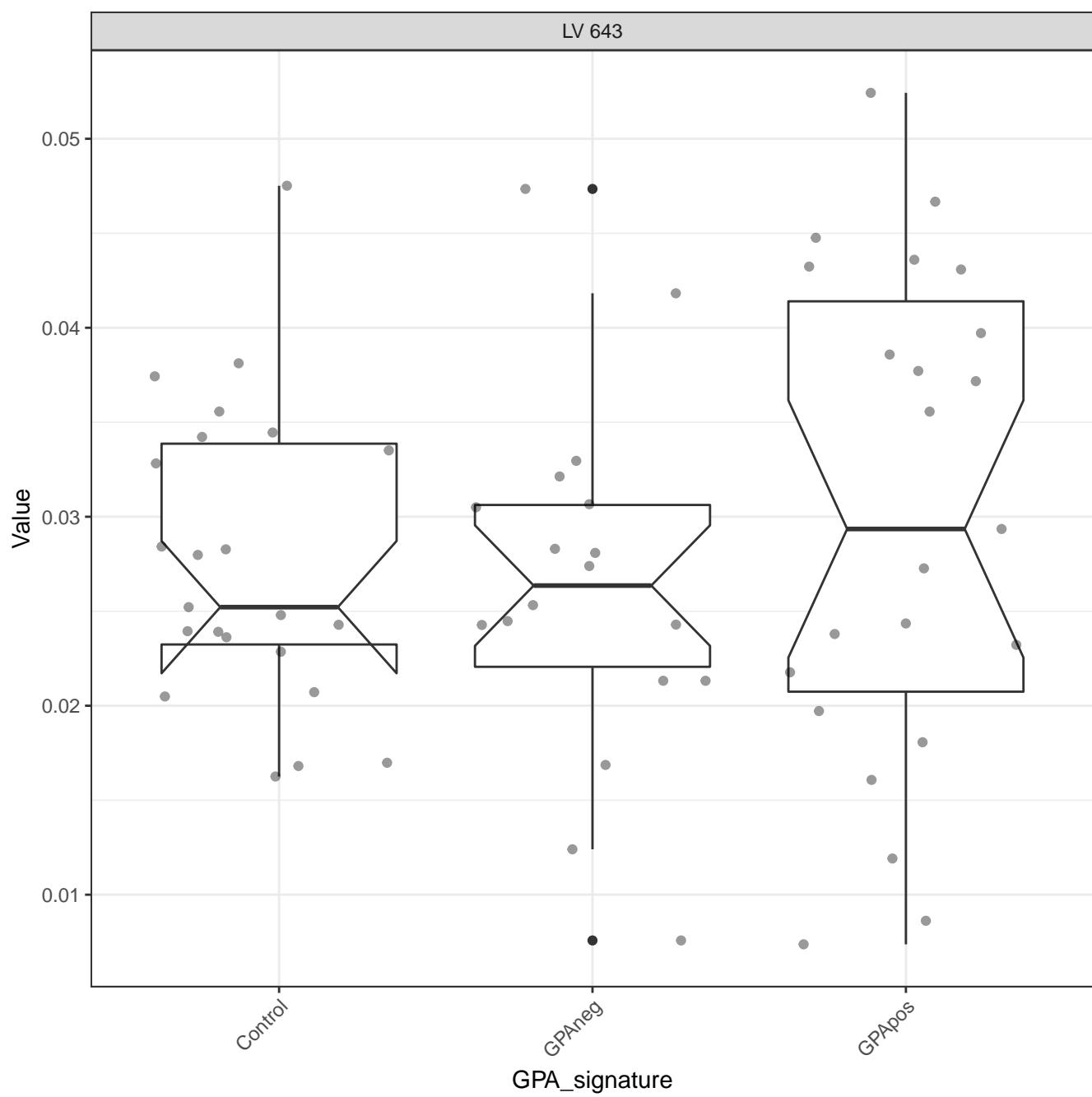
GPApos

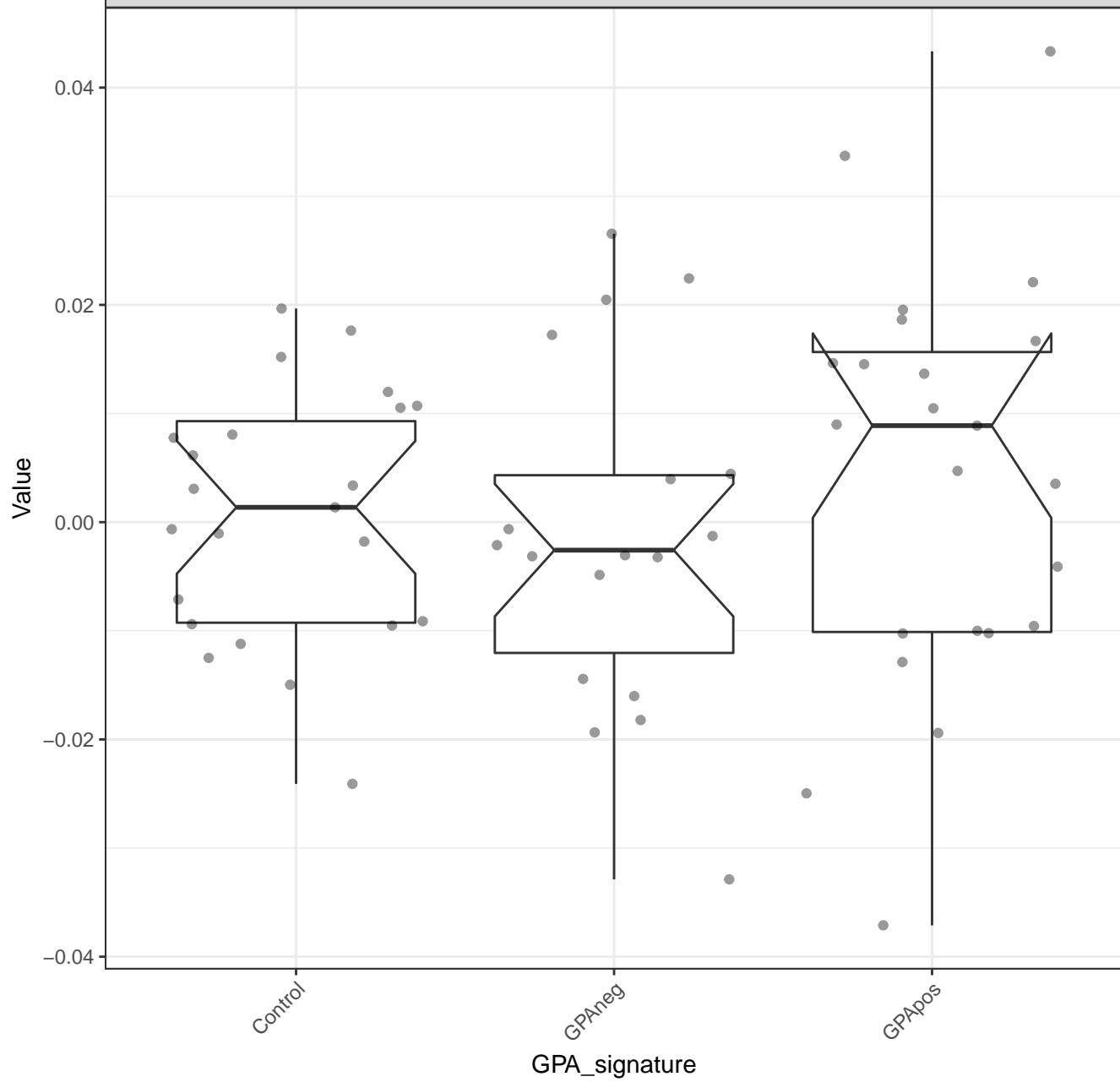
GPA\_signature

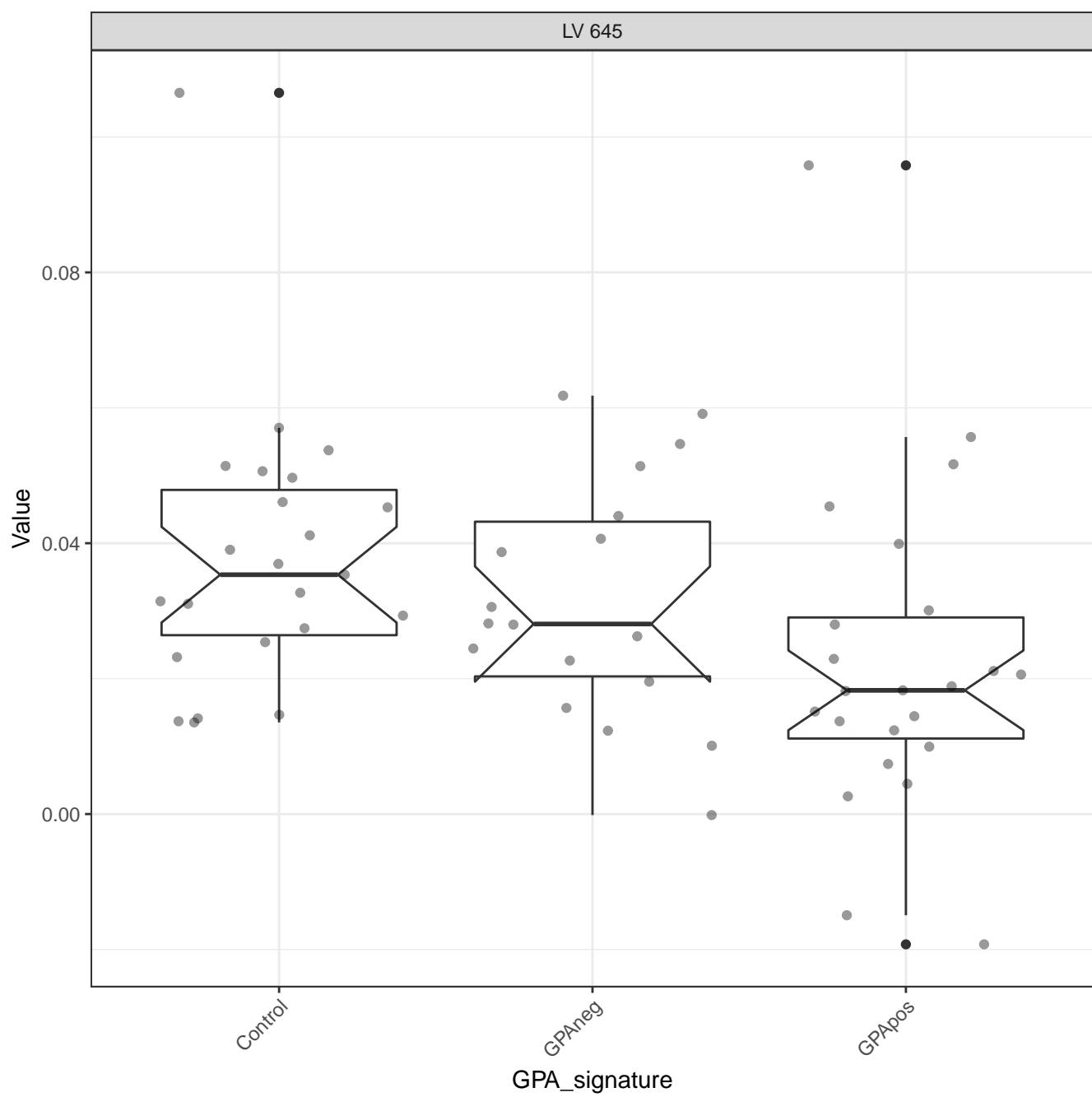


LV 642

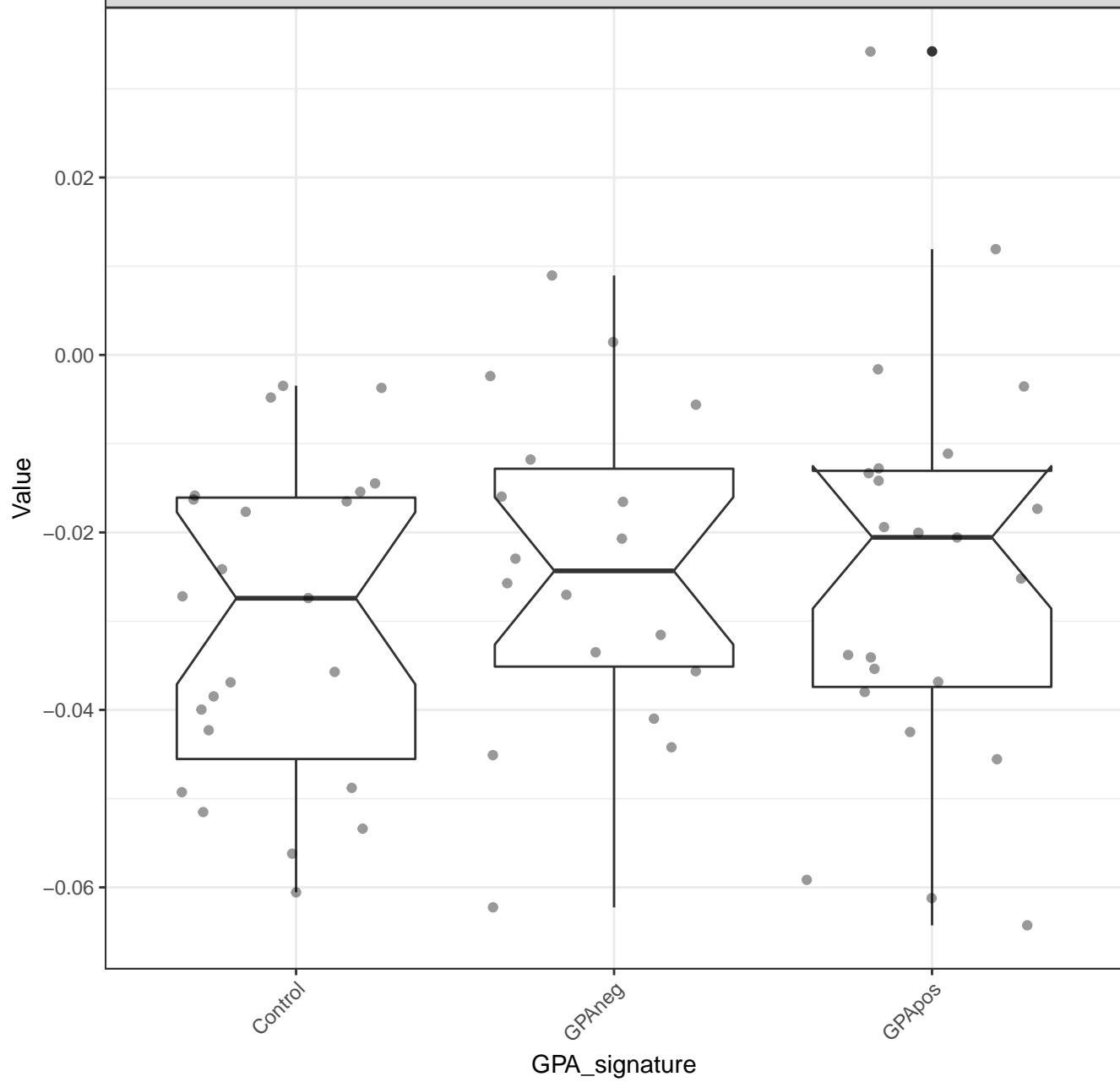








LV 646



LV 647

Value

0.05

0.01

-0.05

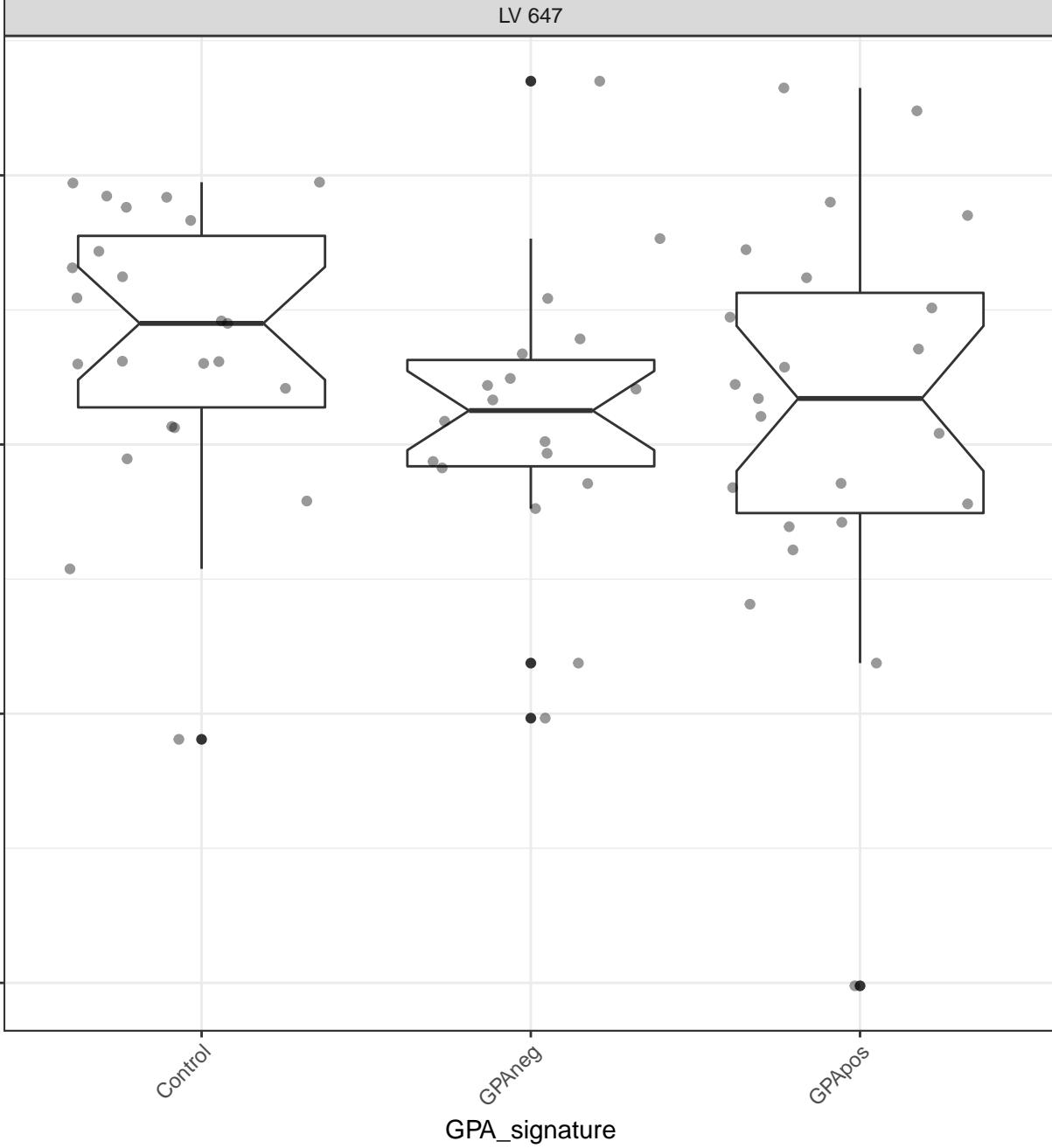
-0.10

Control

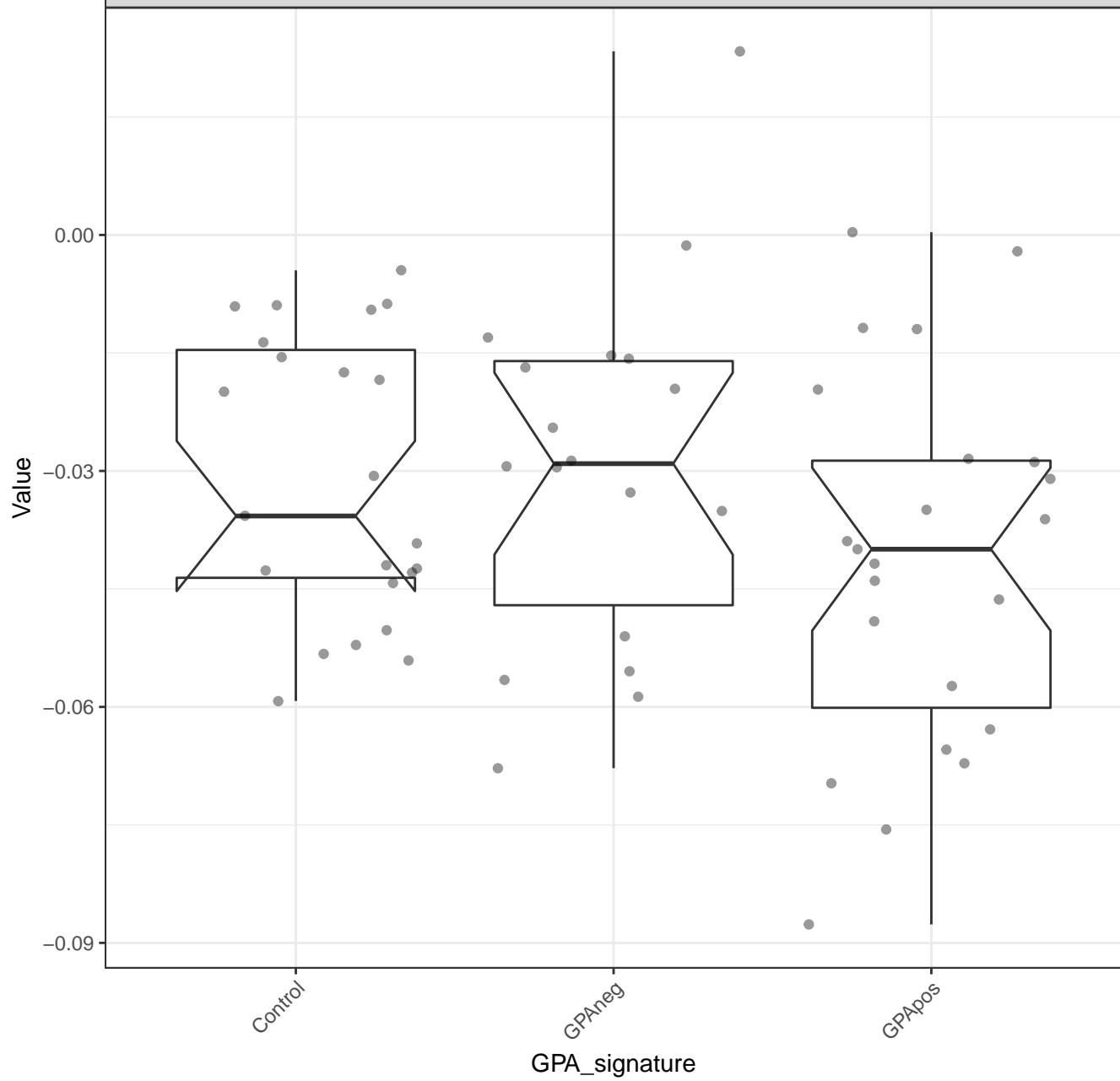
GPAneg

GPApos

GPA\_signature

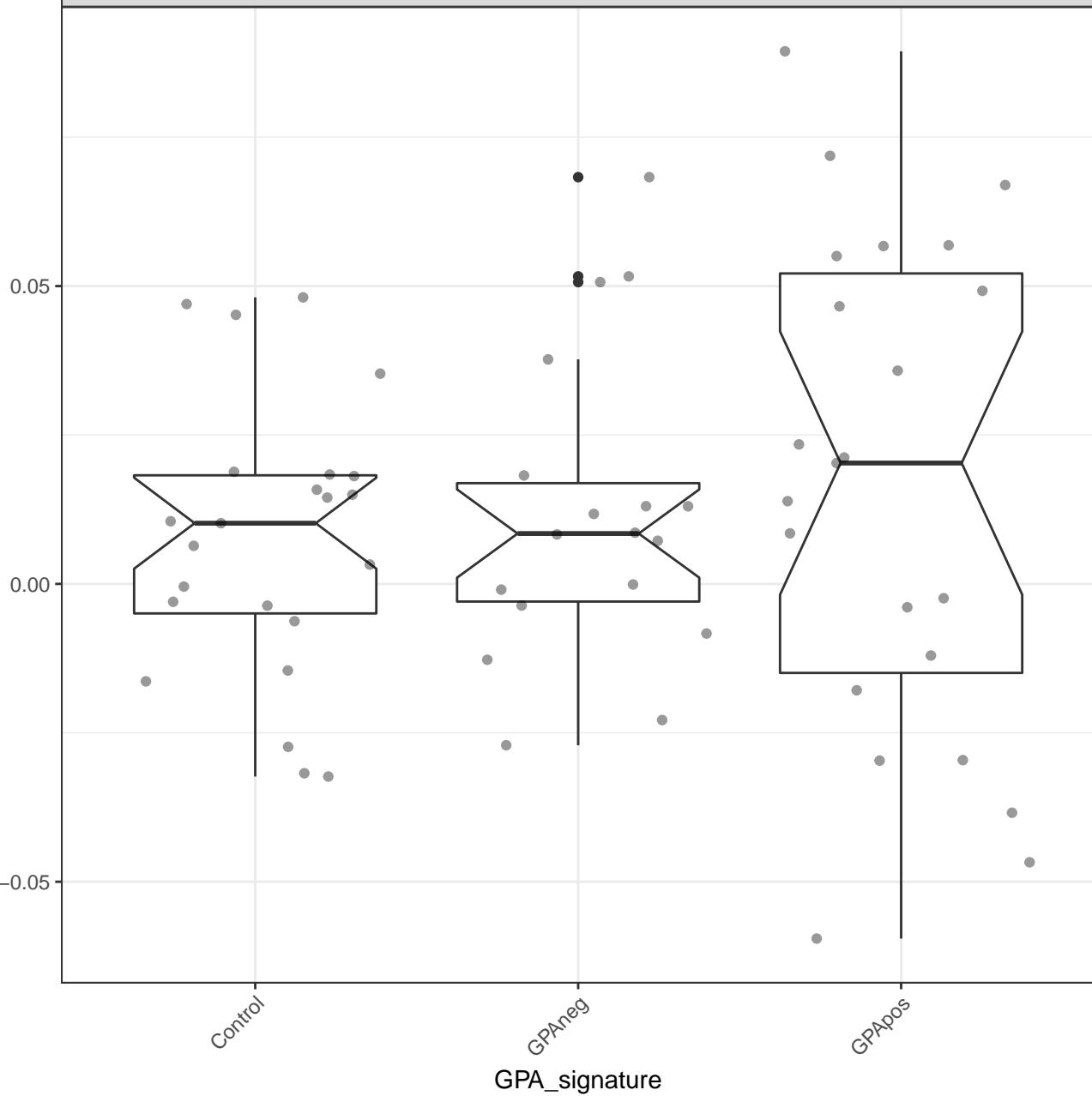


LV 648



## 649,IRIS\_Monocyte–Day1

Value



LV 650

Value

0.05

0.00

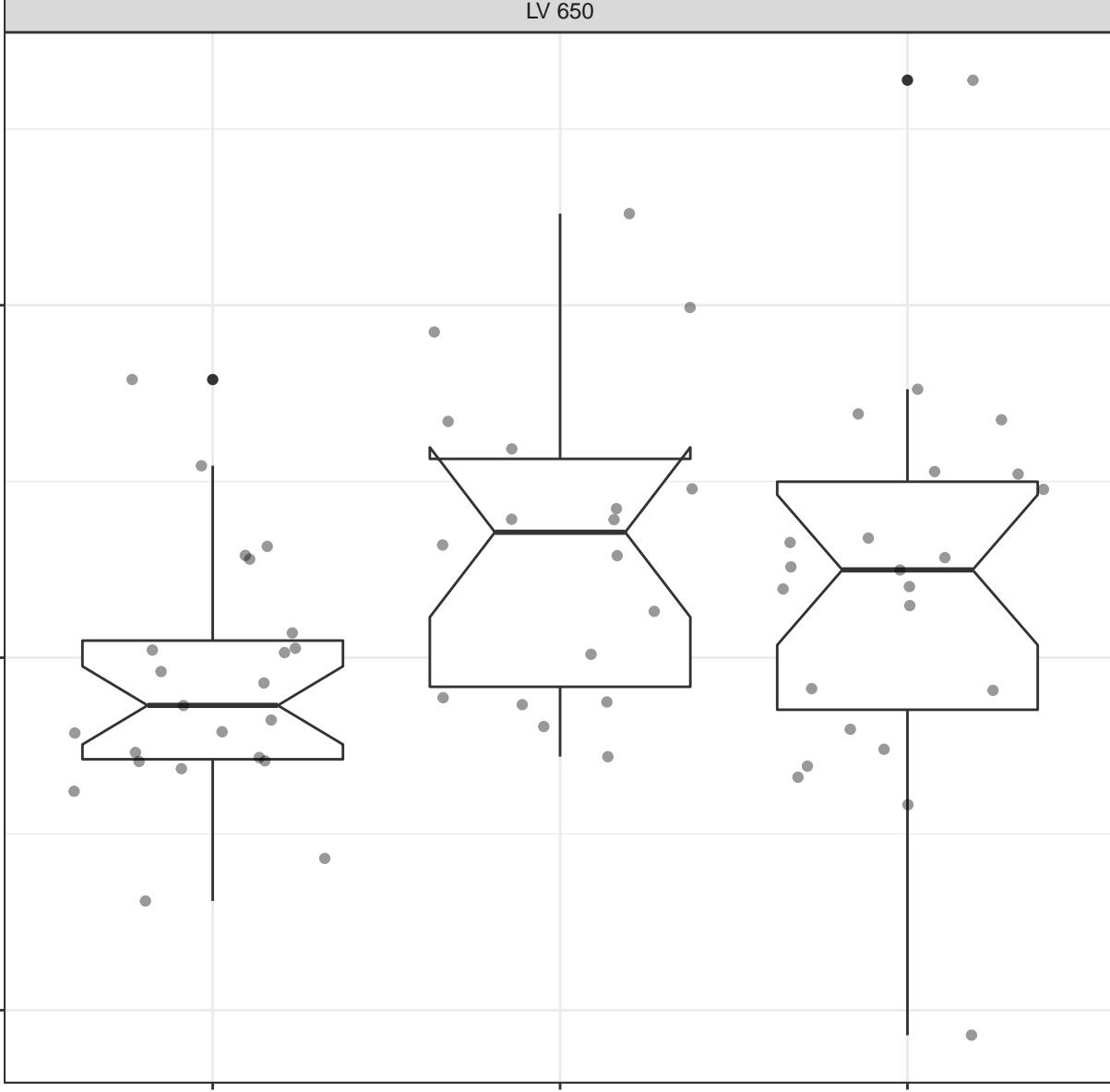
-0.05

Control

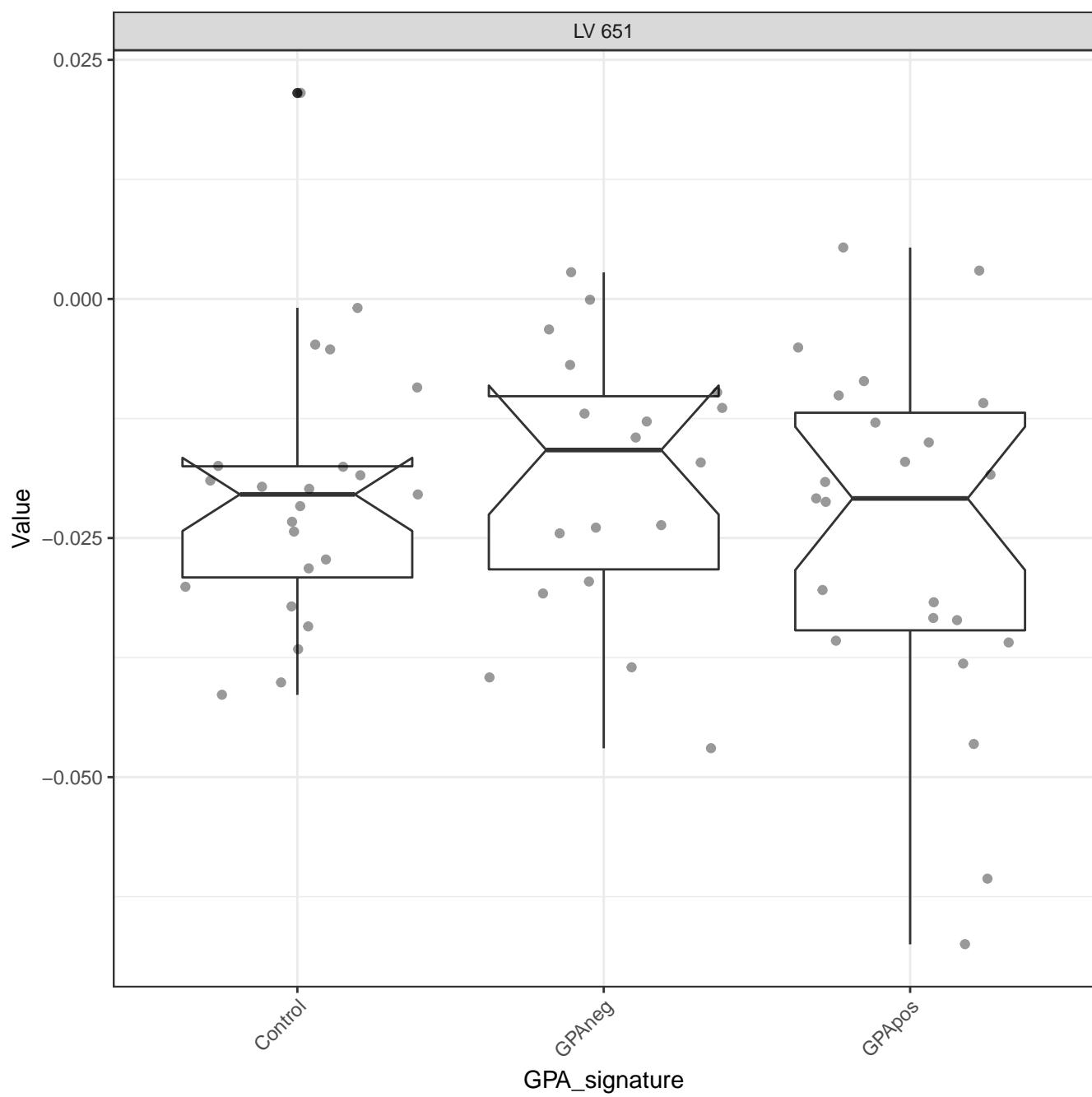
GPA\_signature

GPAneg

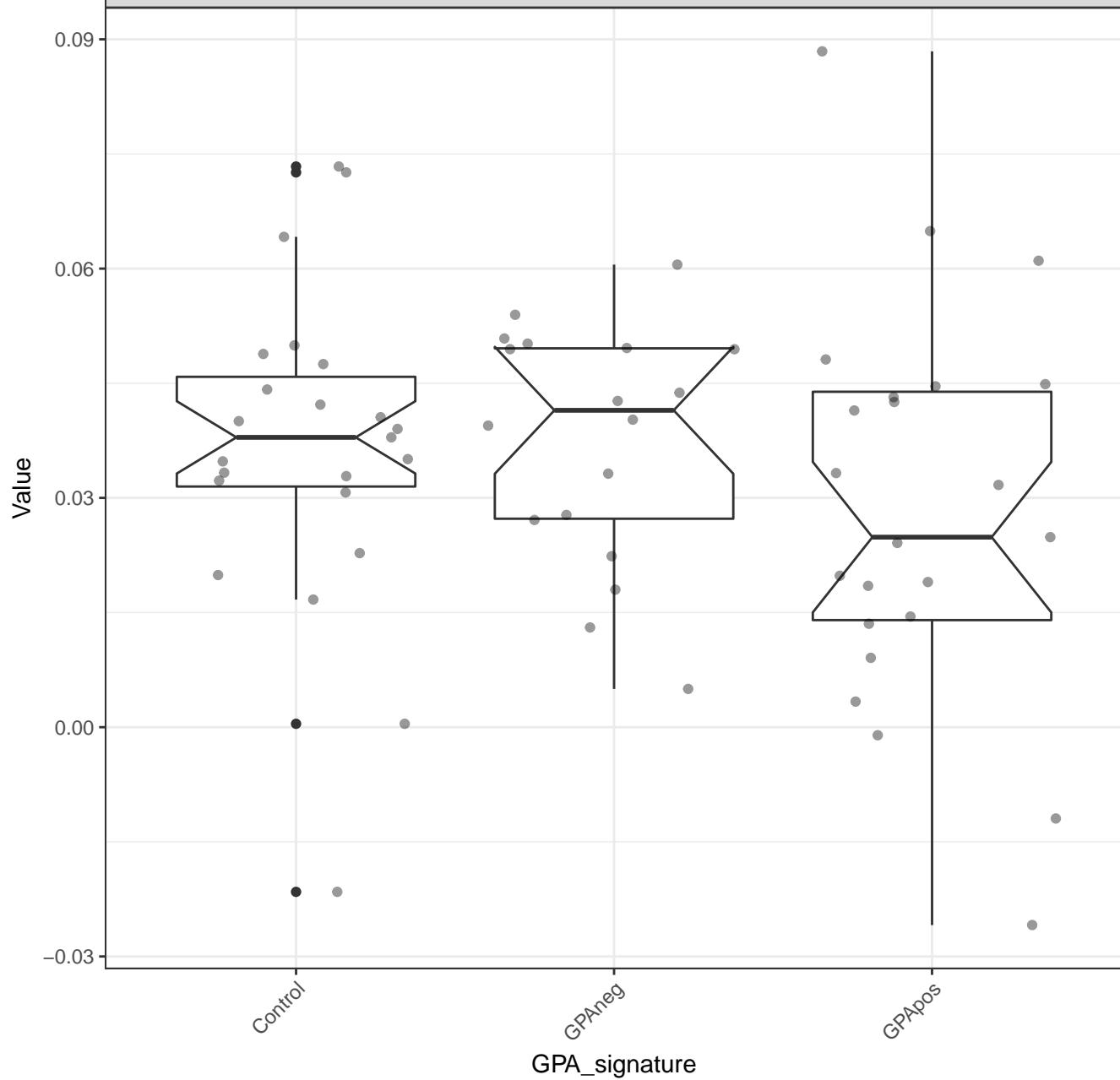
GPApos



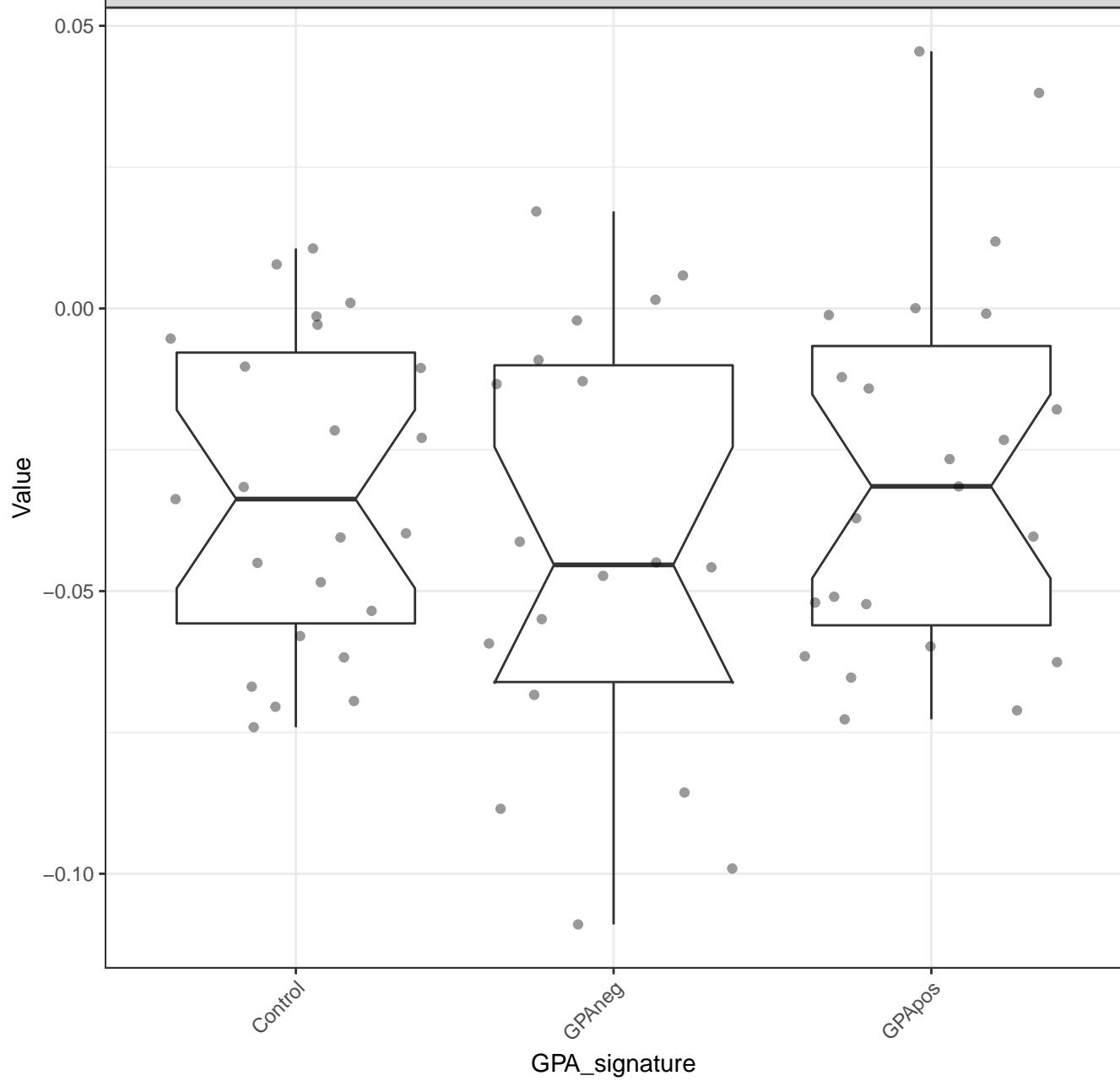
LV 651



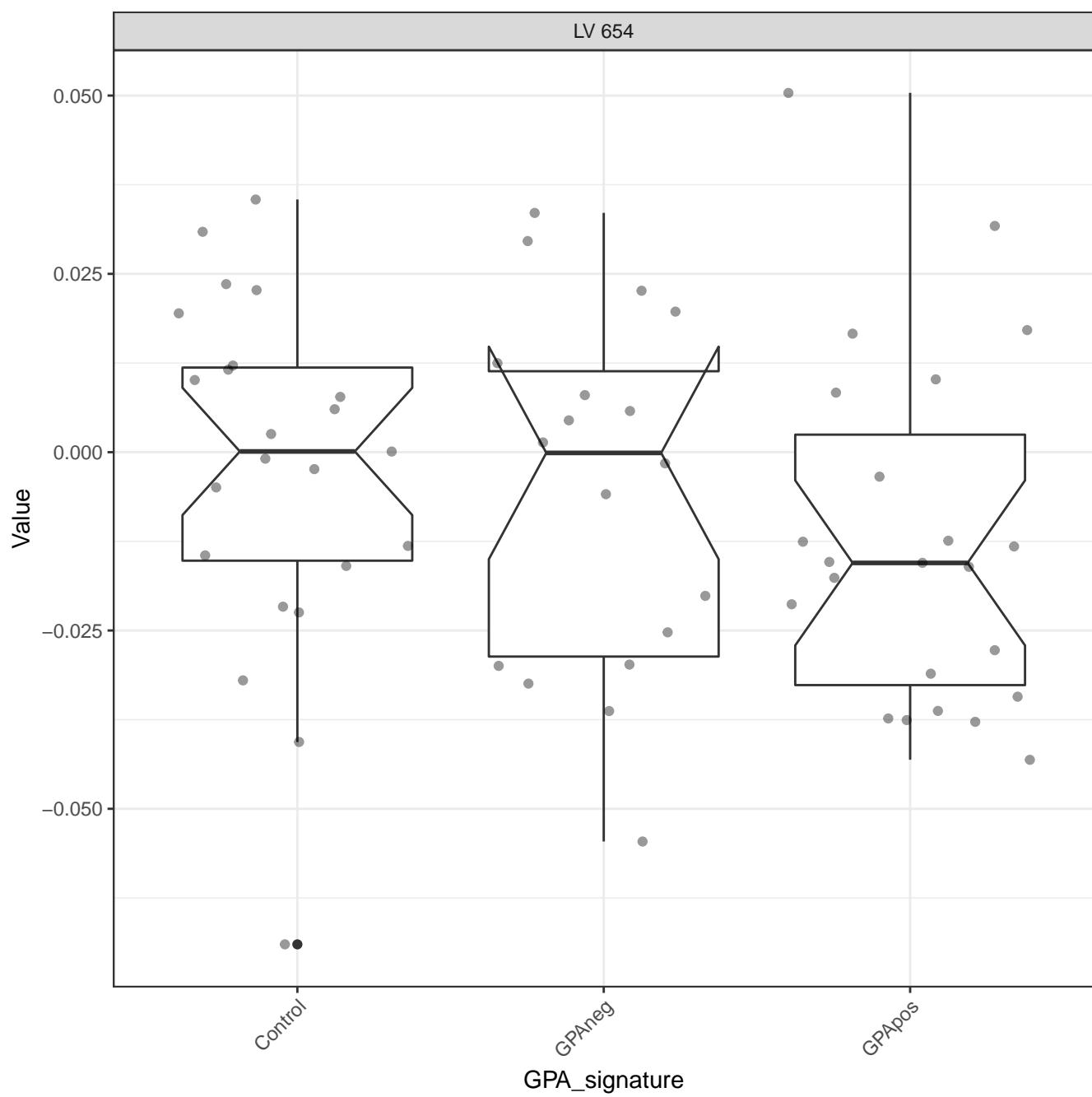
LV 652



LV 653



LV 654



LV 655

Value

0.025

0.000

-0.025

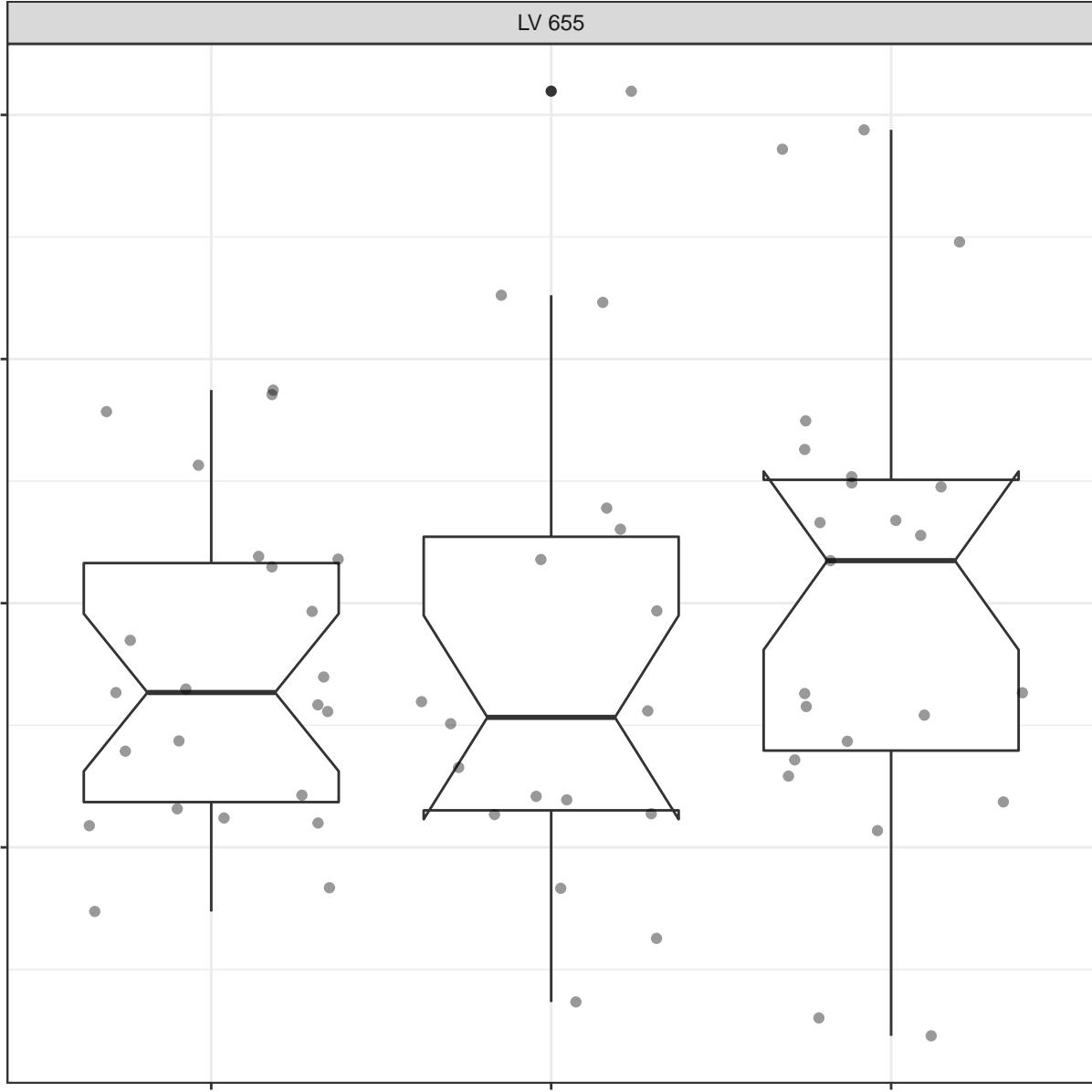
-0.050

Control

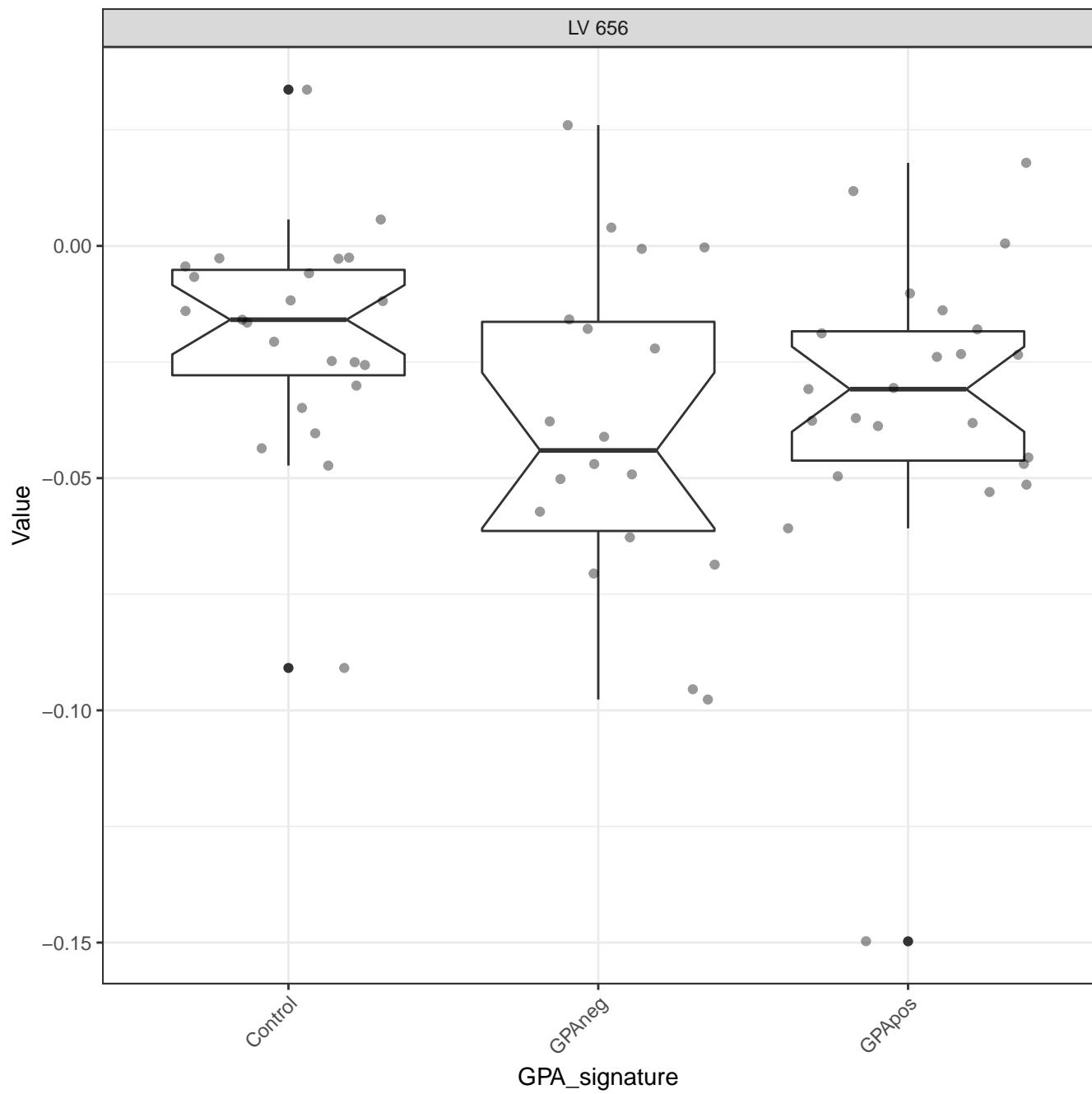
GPA\_signature

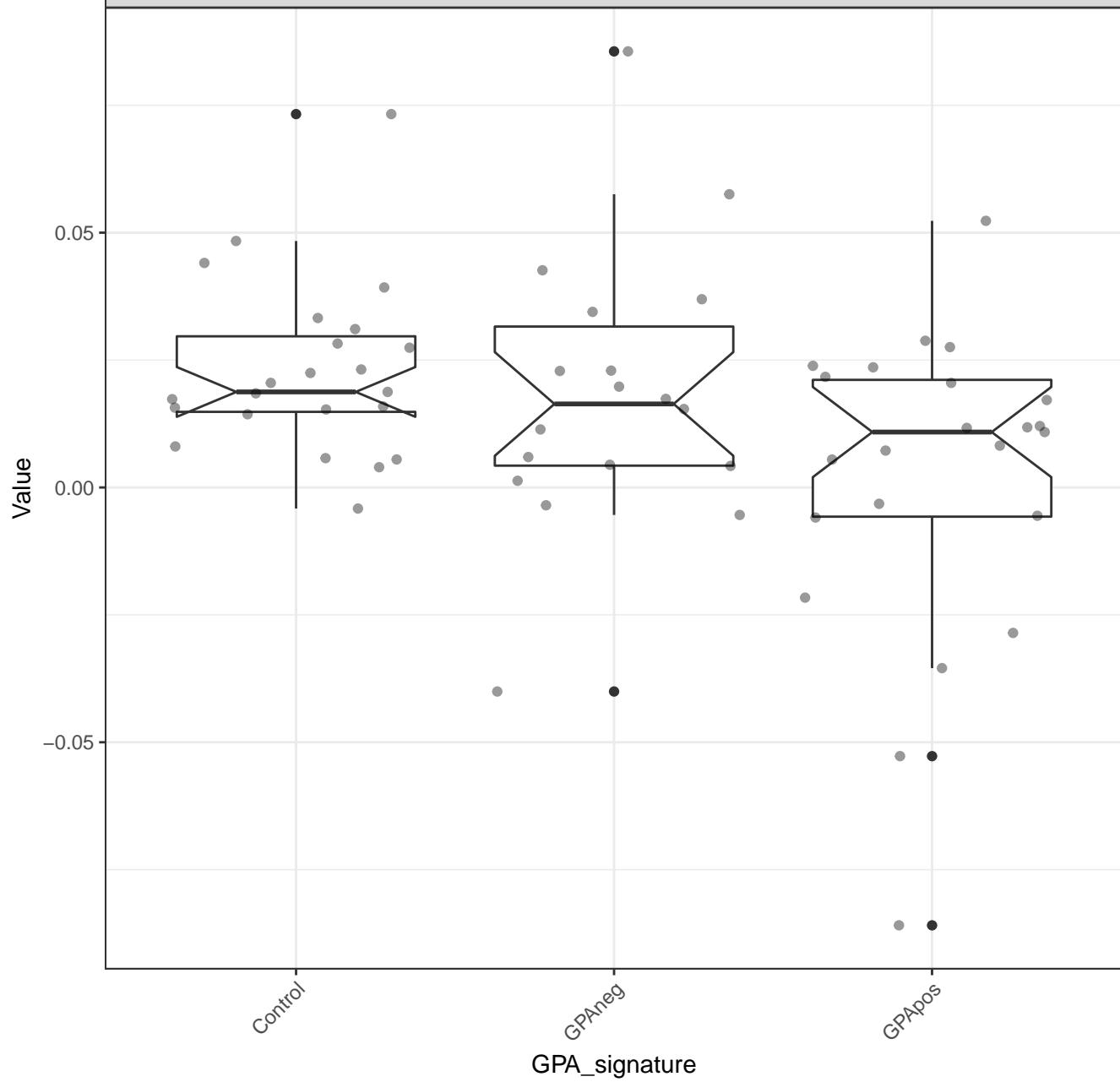
GPAneg

GPApos

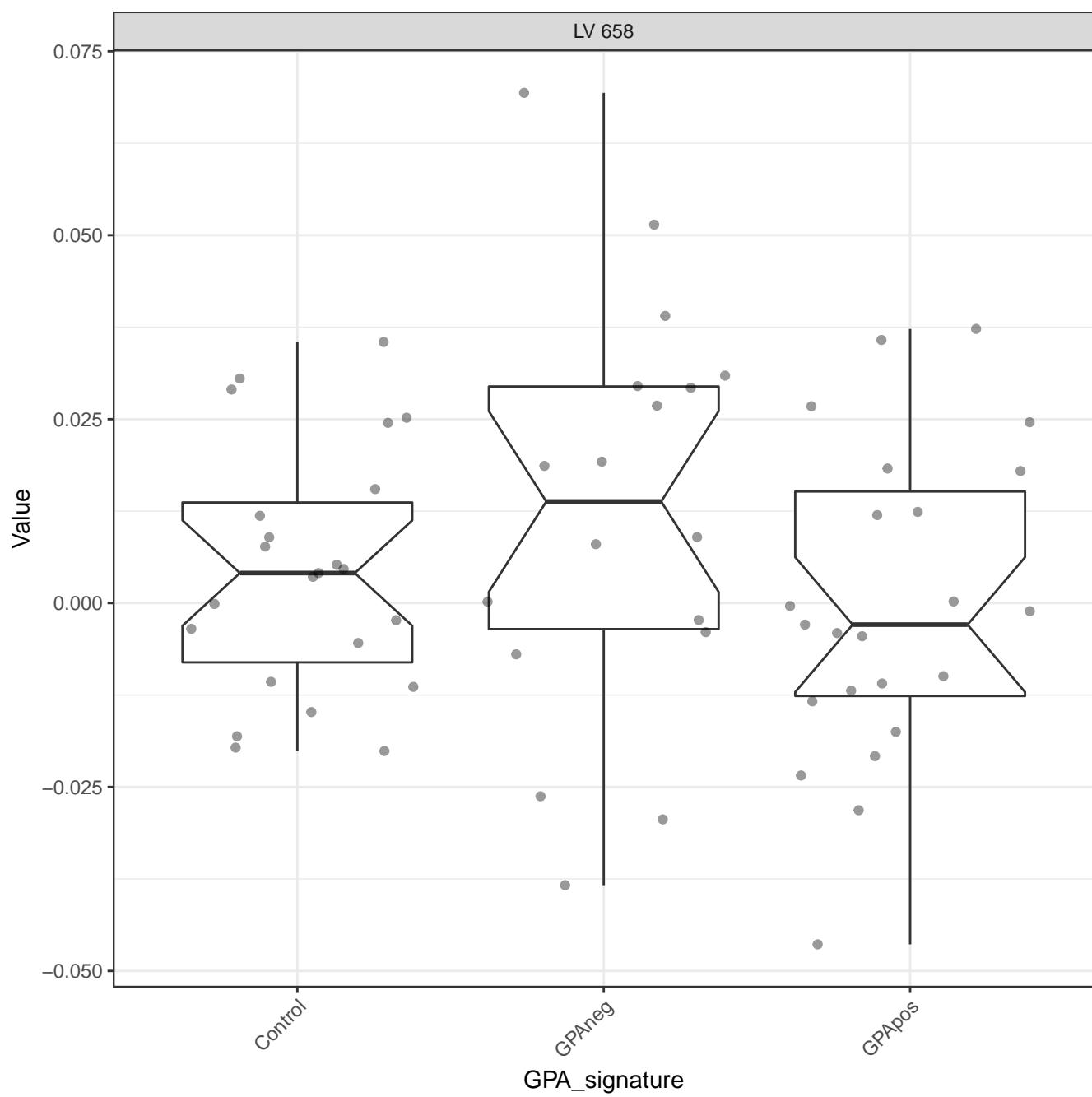


LV 656

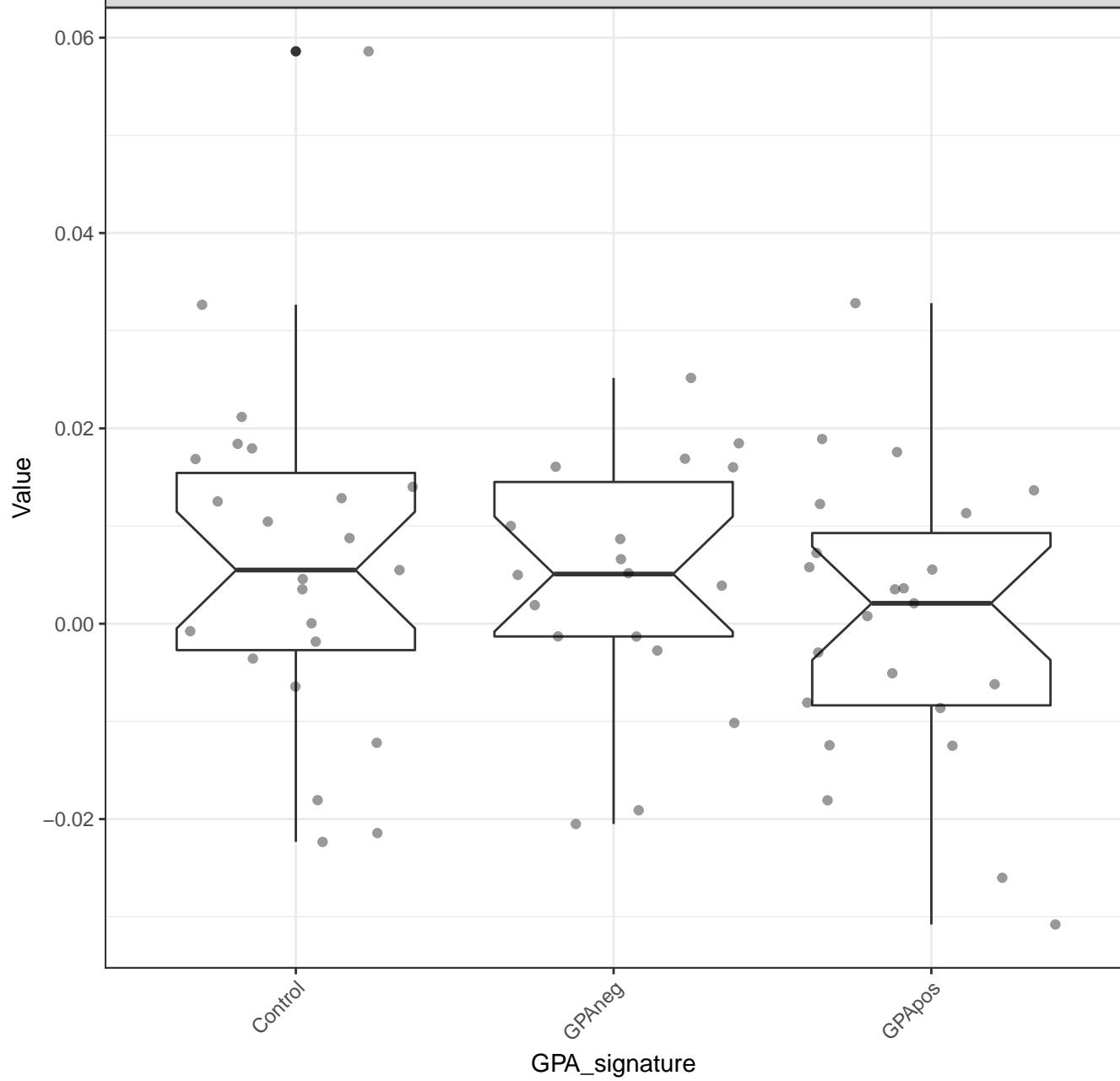




LV 658



LV 659



## LV 660

Value

0.02

0.00

-0.02

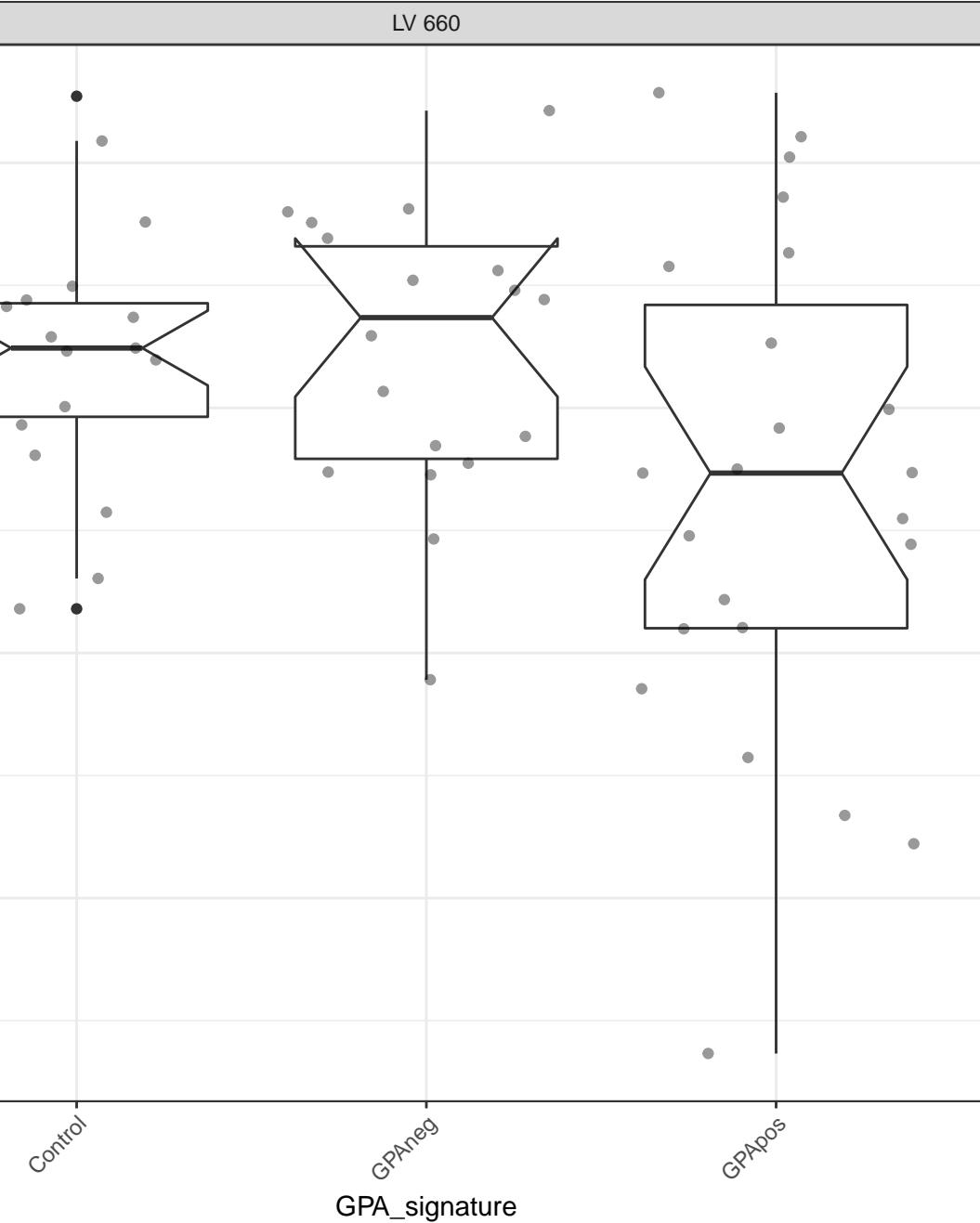
-0.04

Control

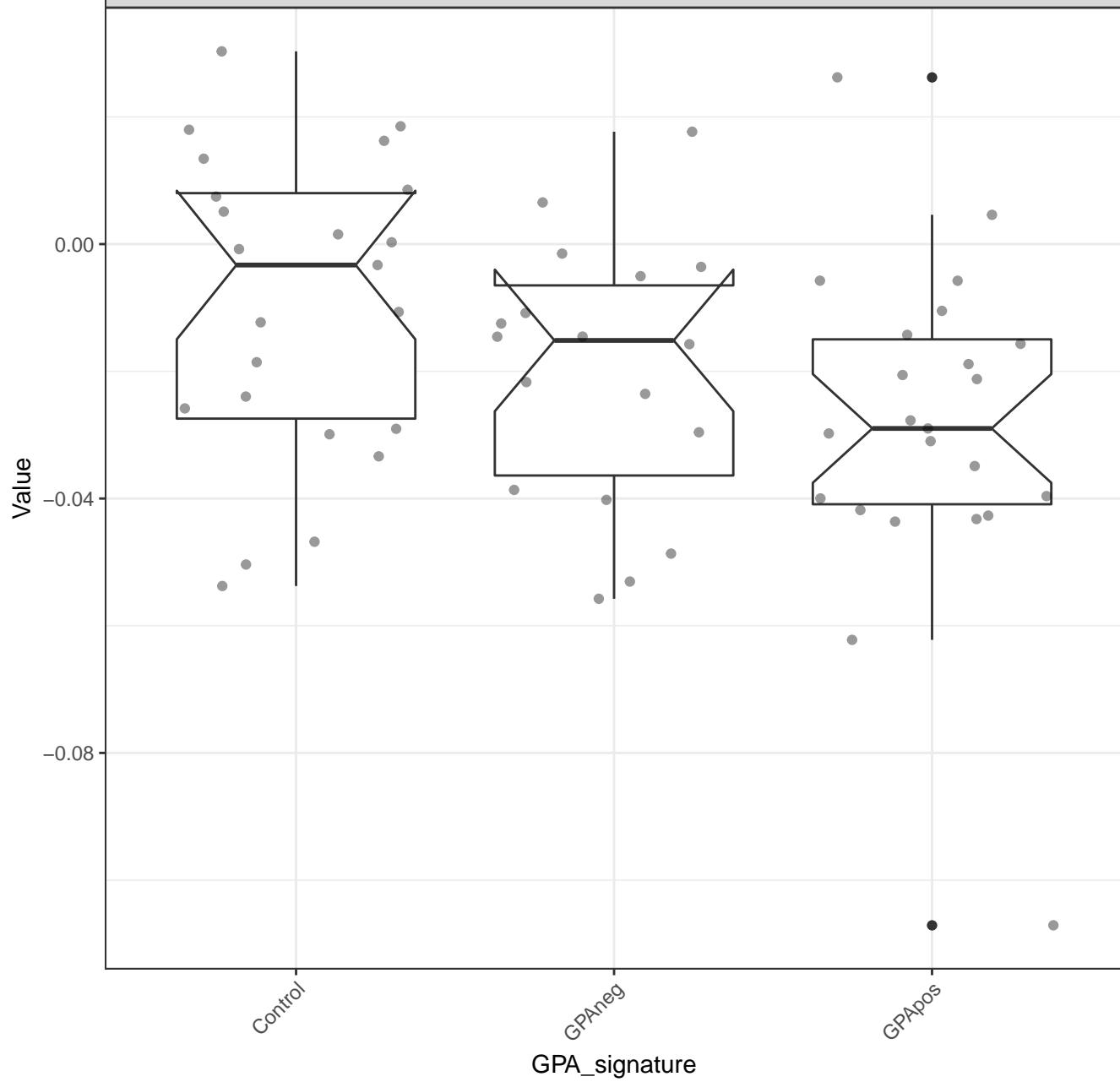
GPA\_signature

GPAneg

GPAPos



LV 661



## 662,REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES

Value

0.05

0.00

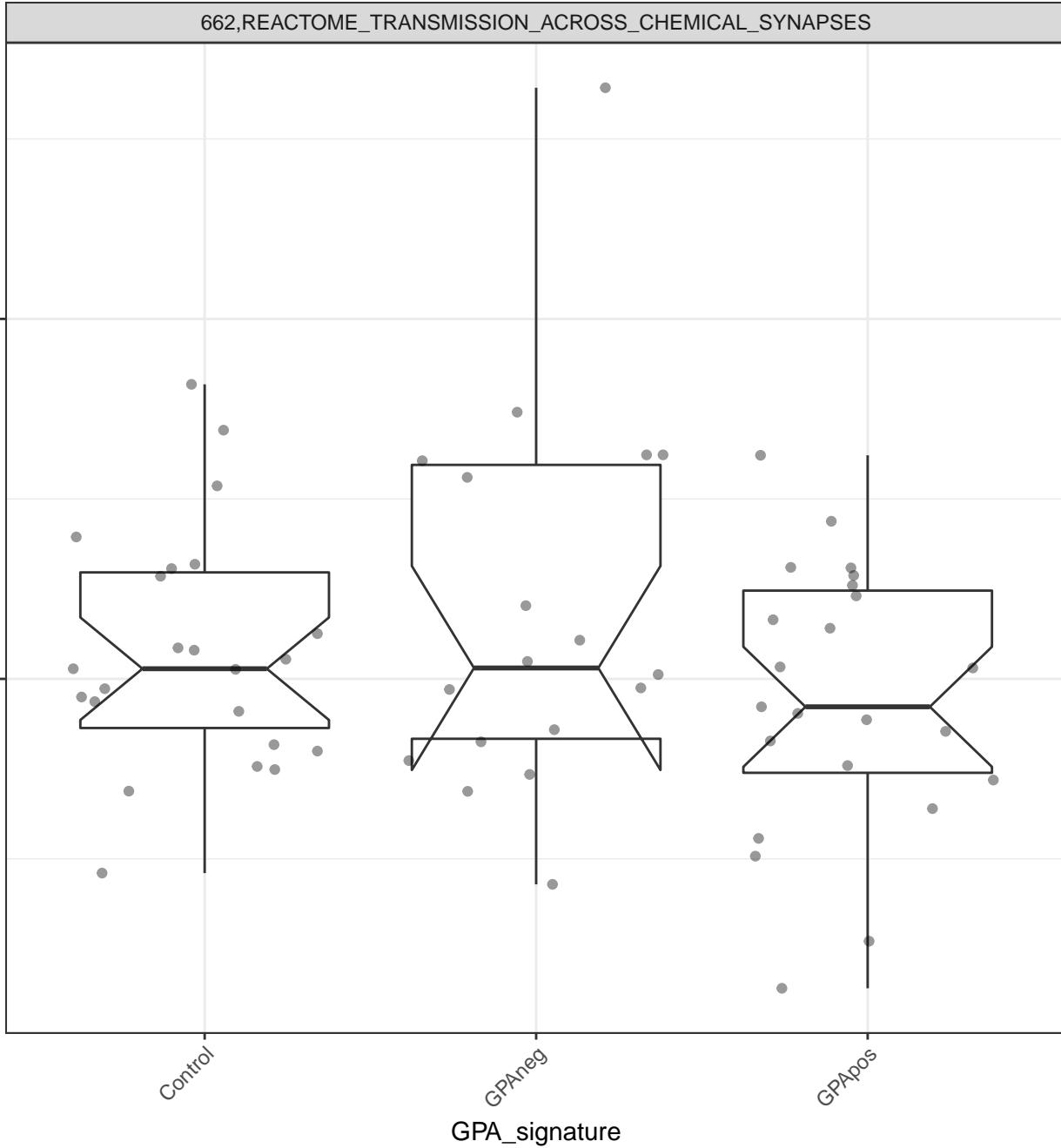
-0.05

Control

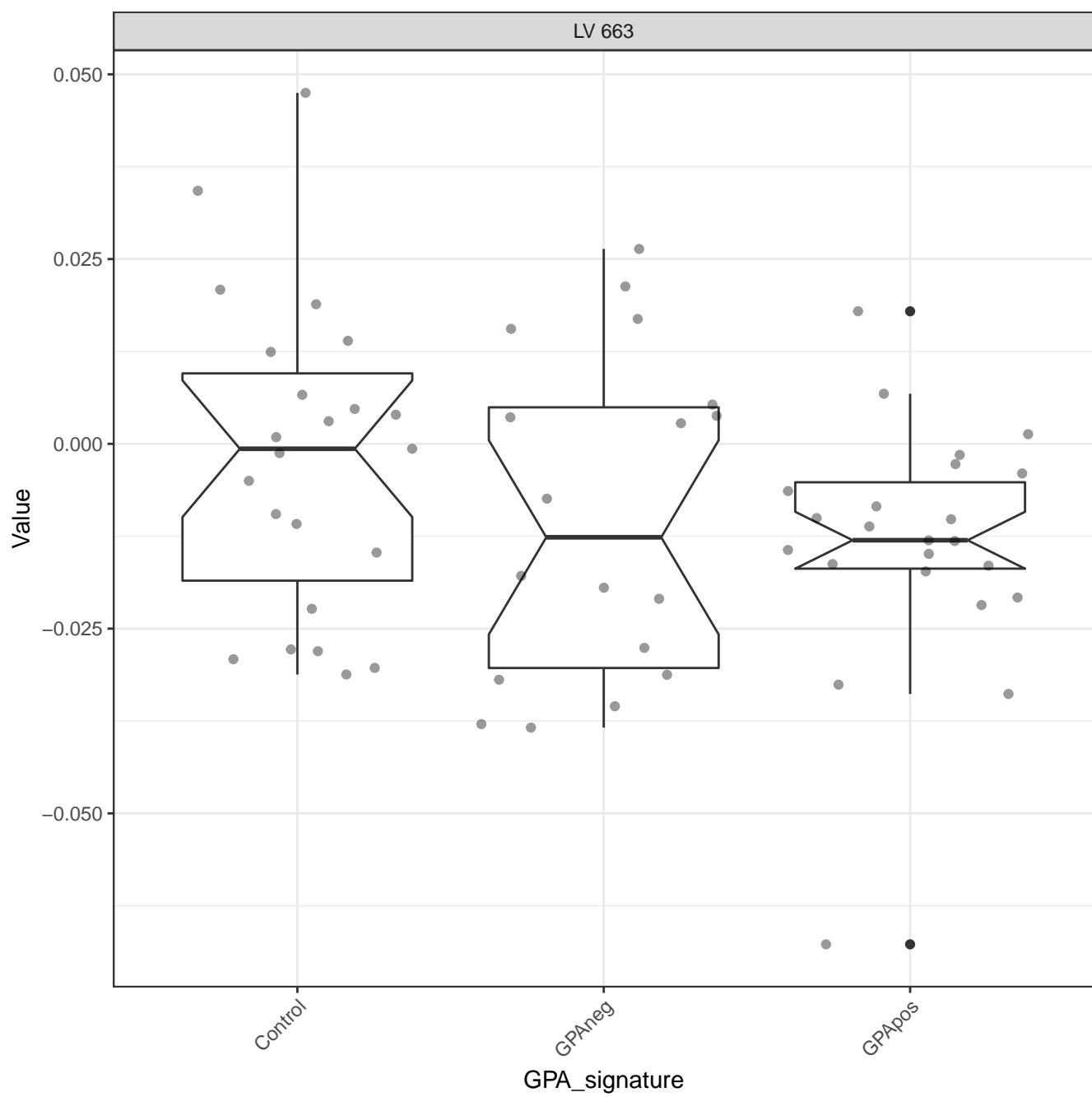
GPA\_signature

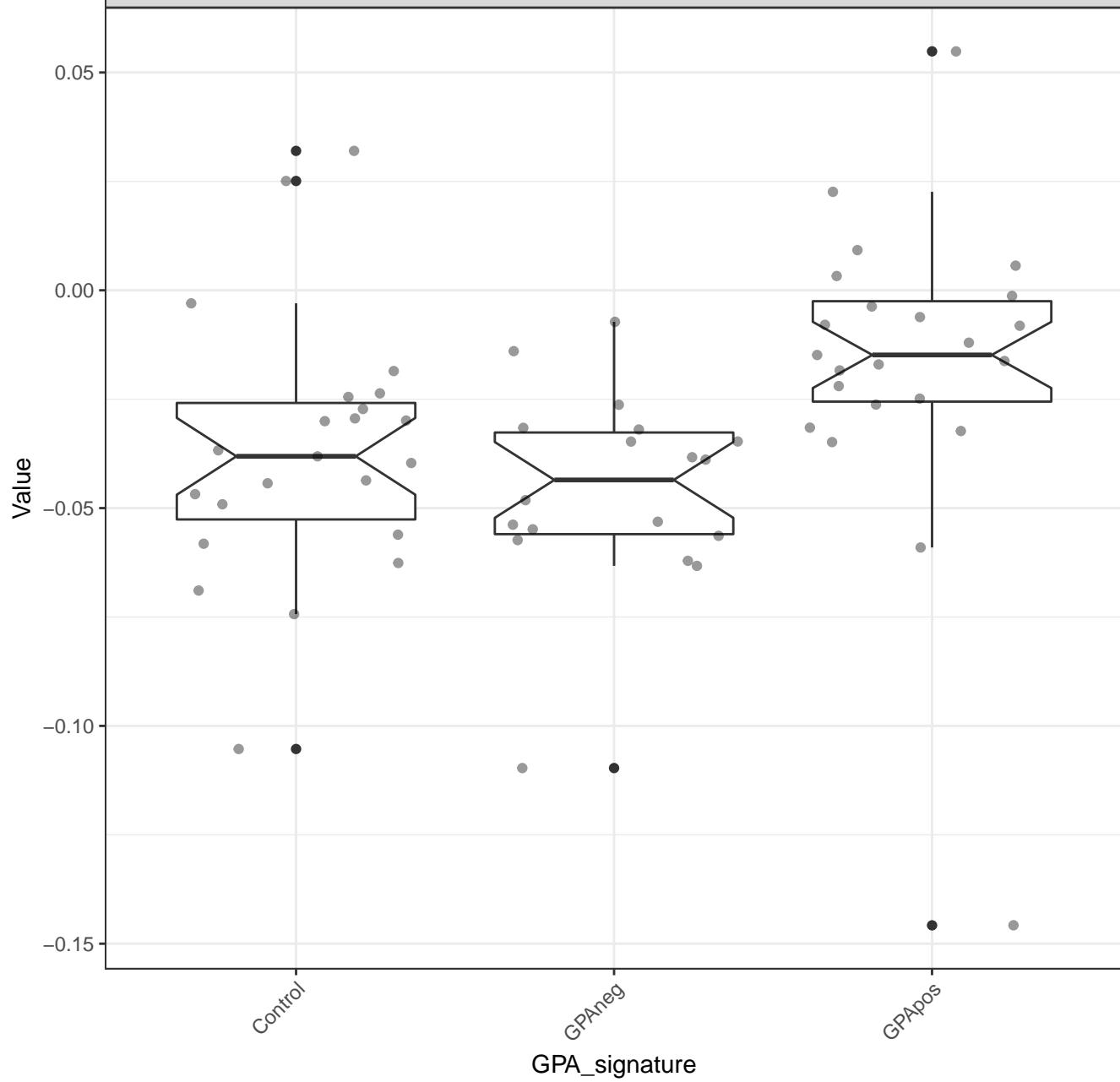
GPAneg

GPAPos



LV 663





LV 665

Value

0.05

0.00

-0.05

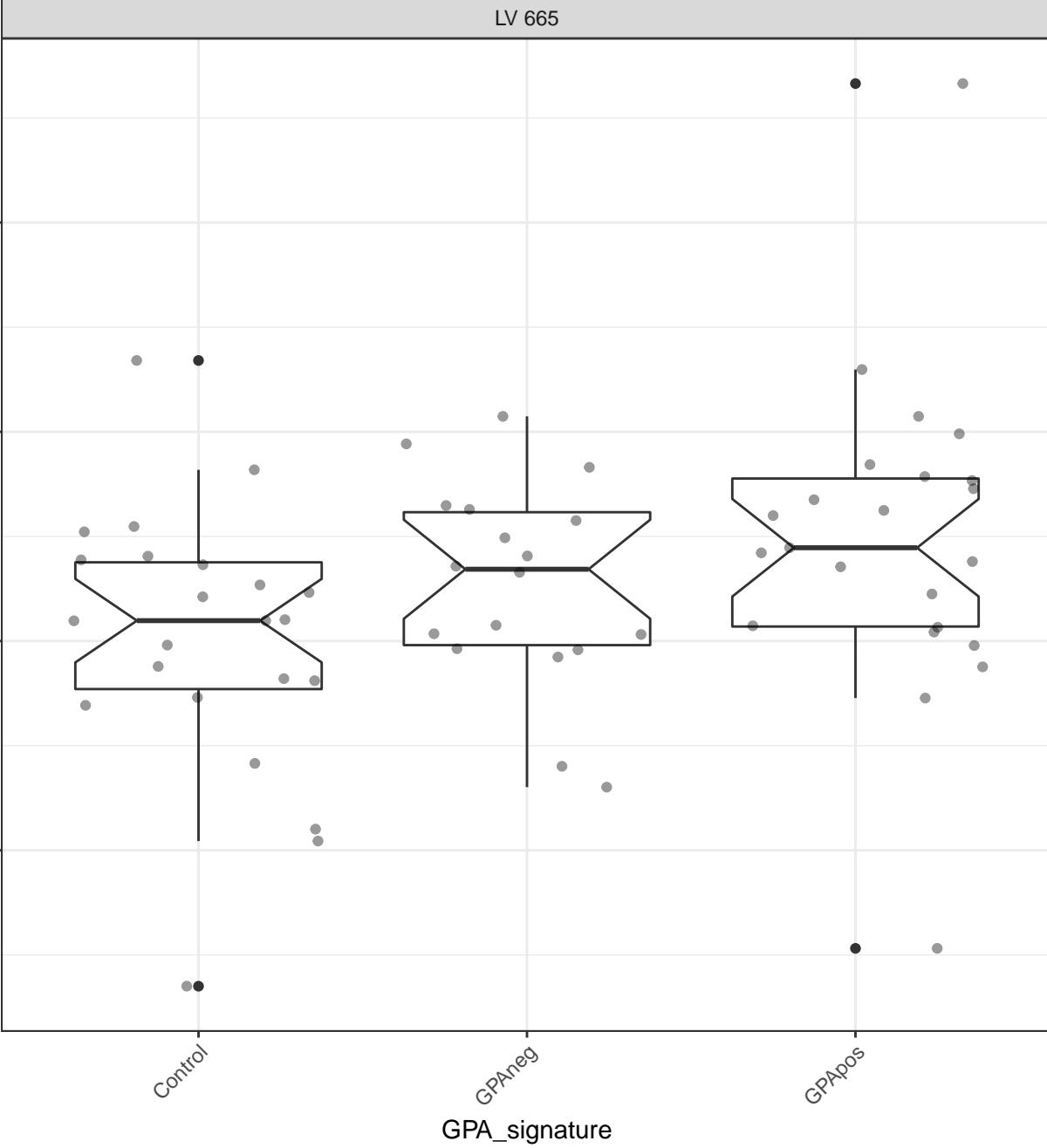
-0.10

Control

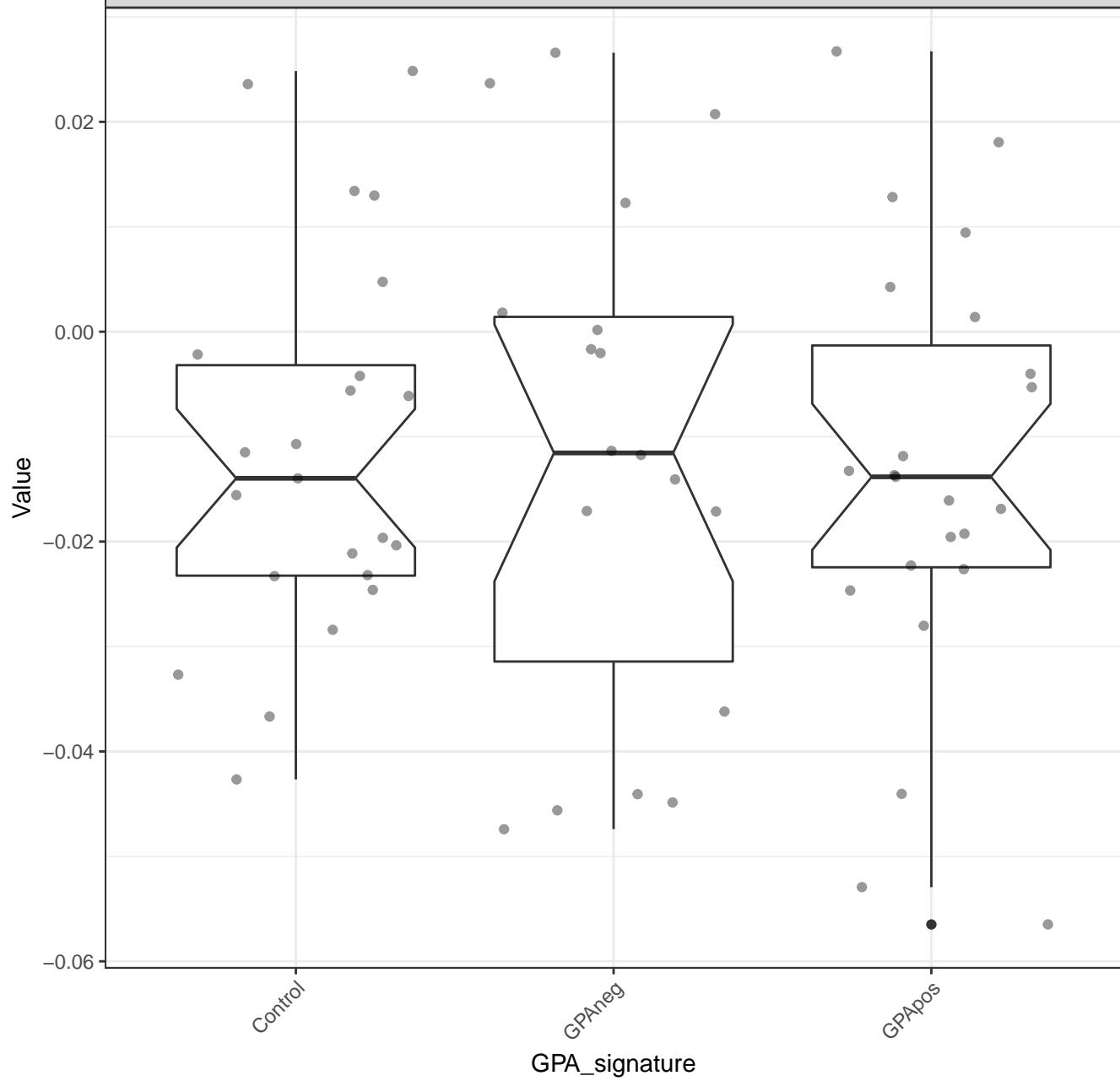
GPAneg

GPApos

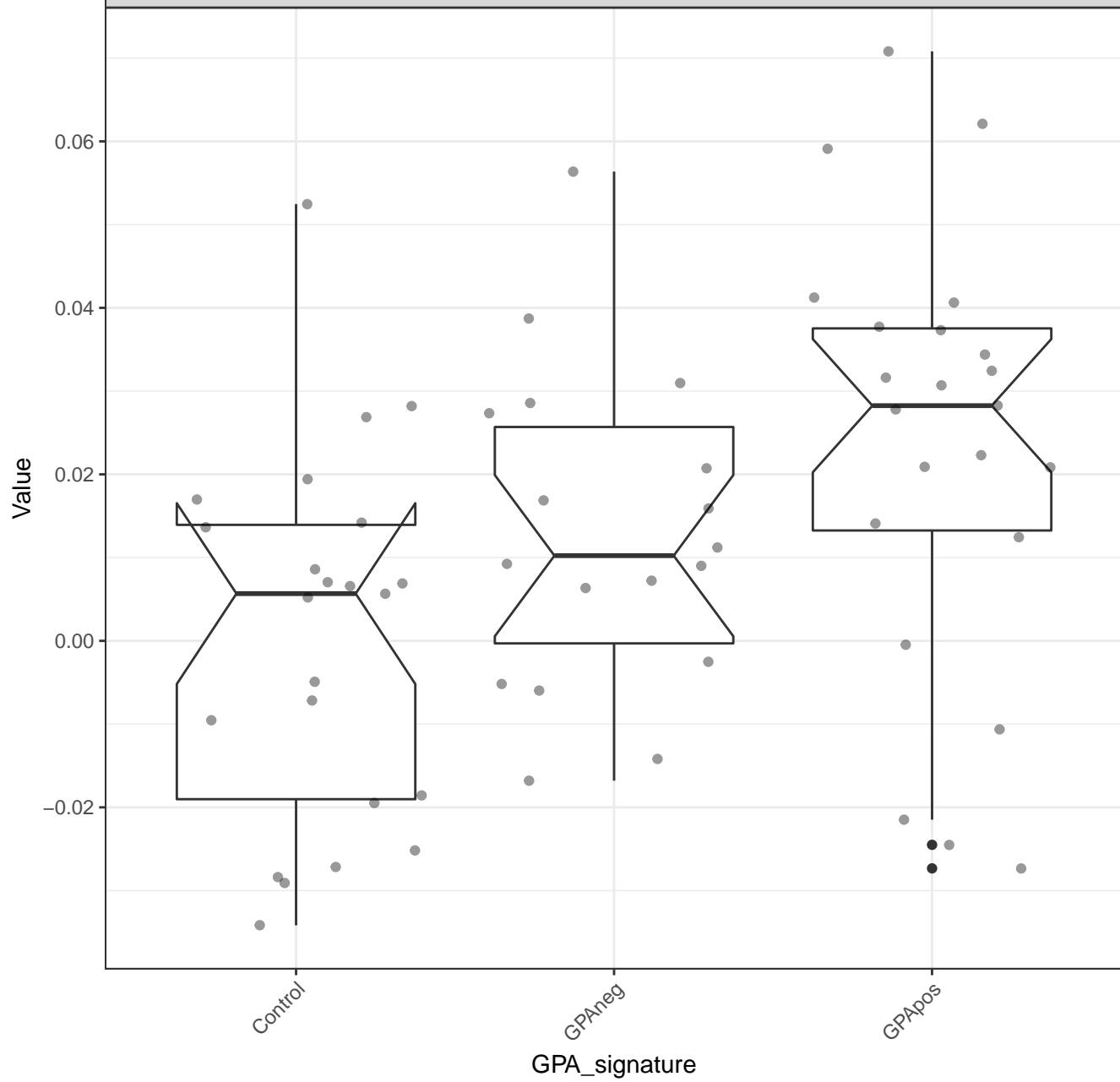
GPA\_signature



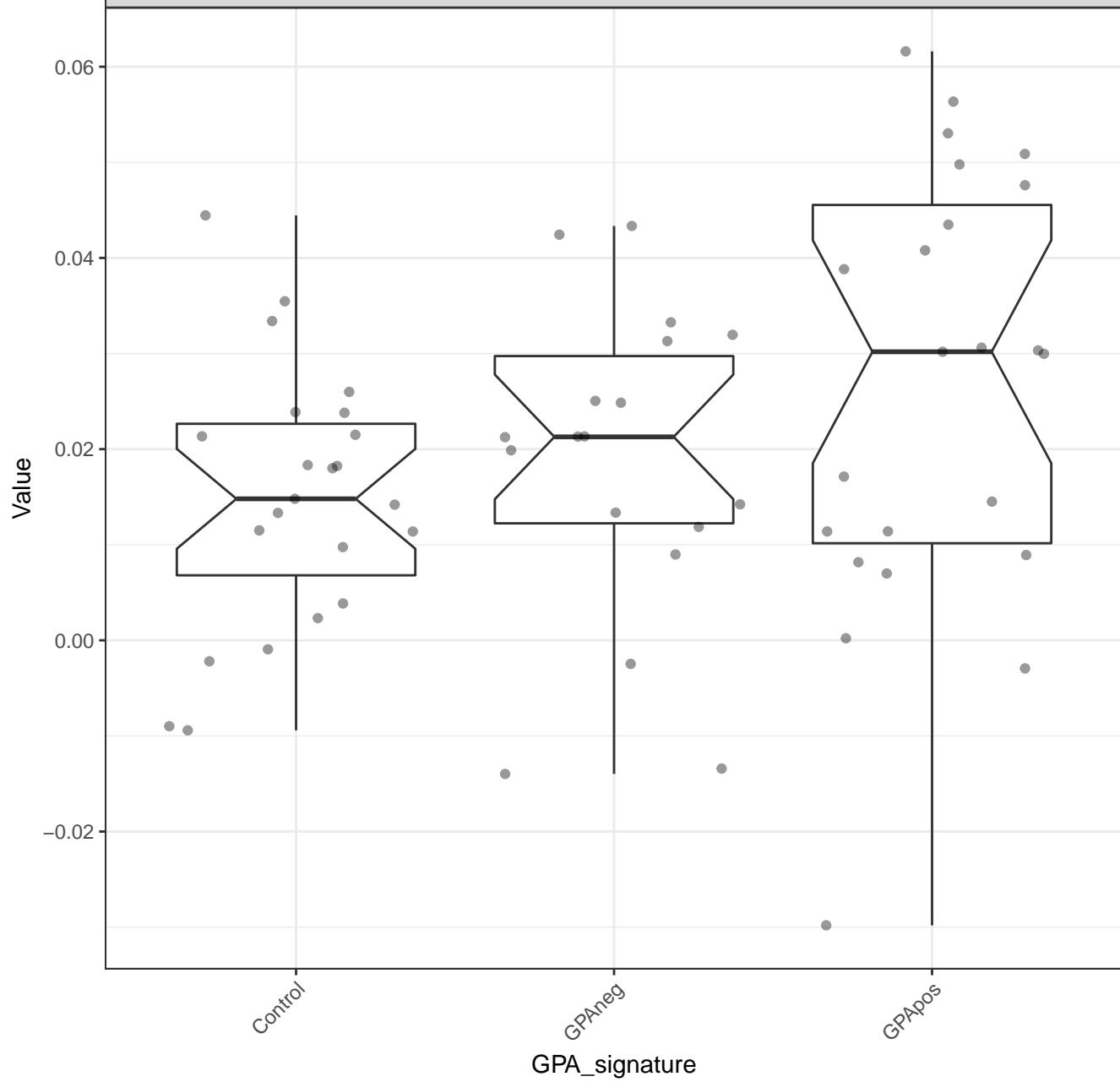
LV 666



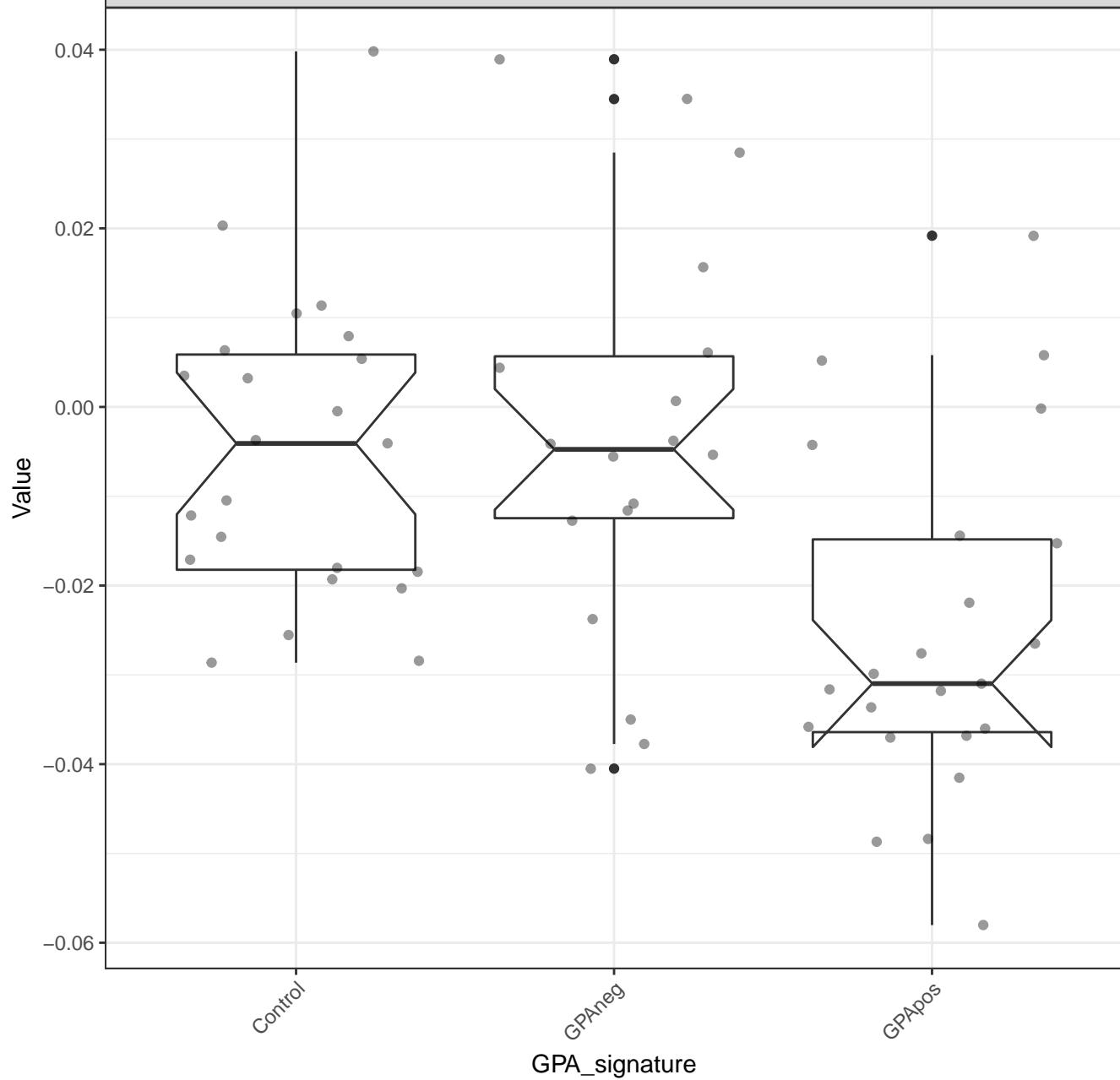
## LV 667



LV 668

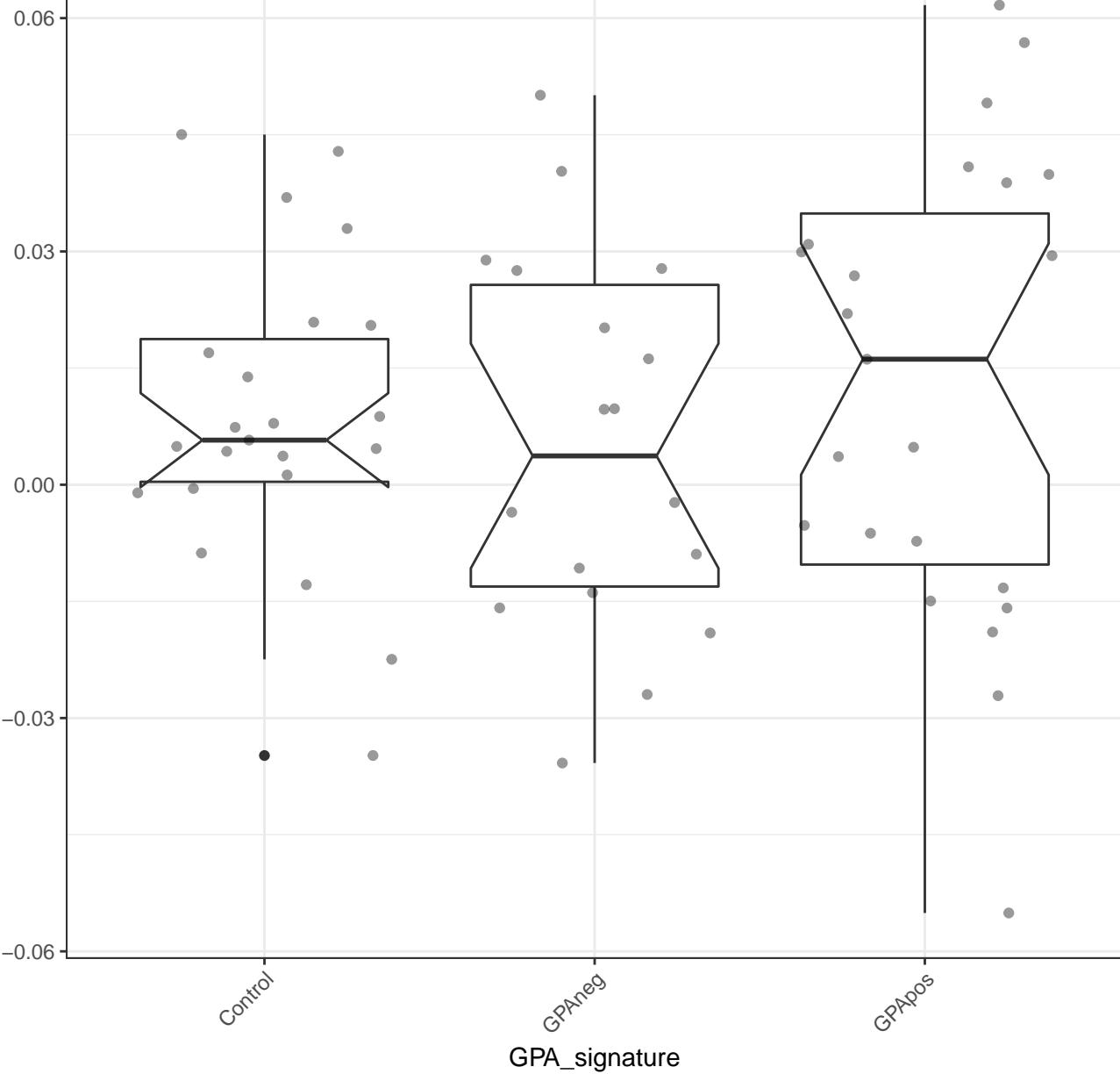


LV 669

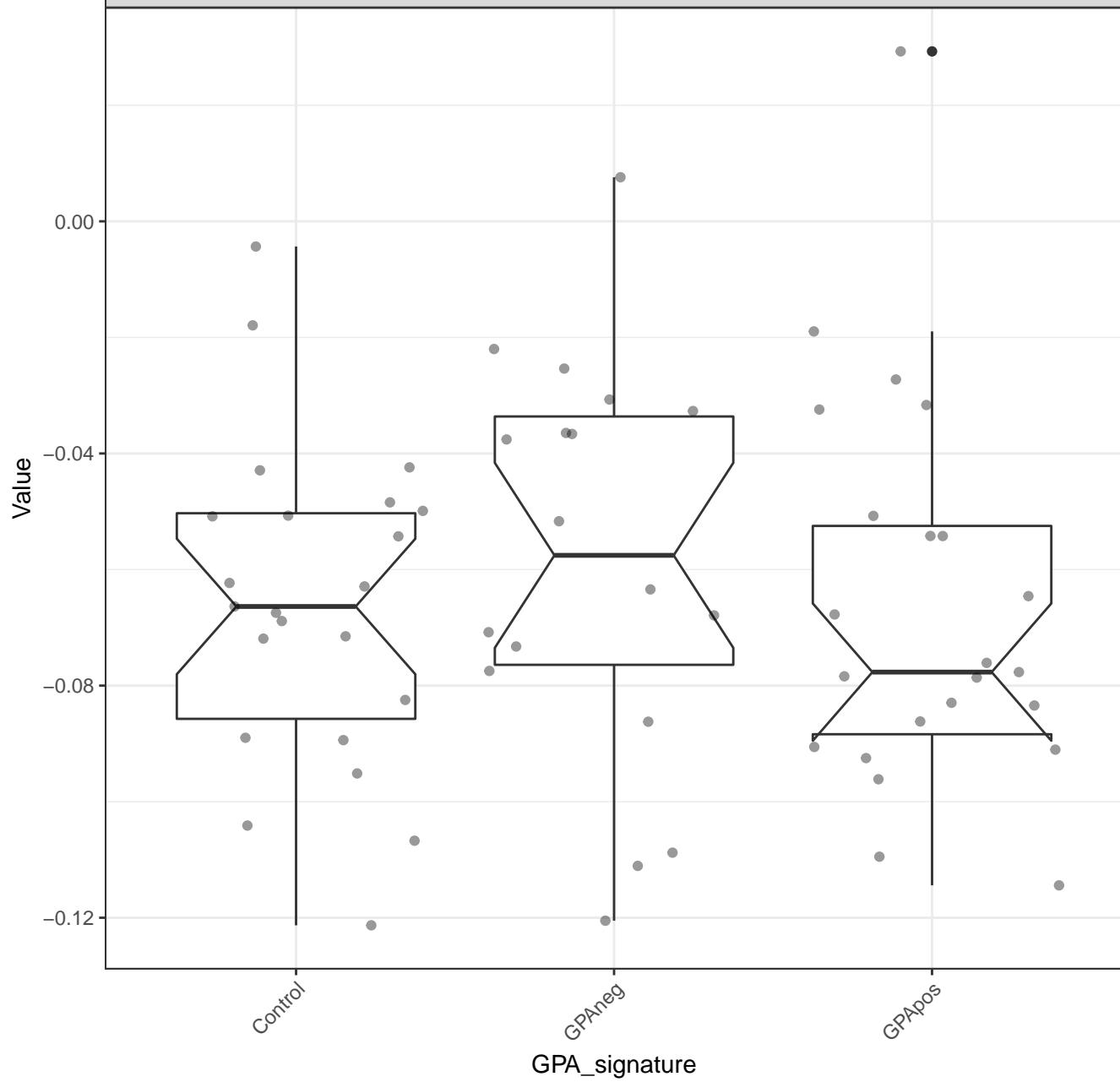


## 670,REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS

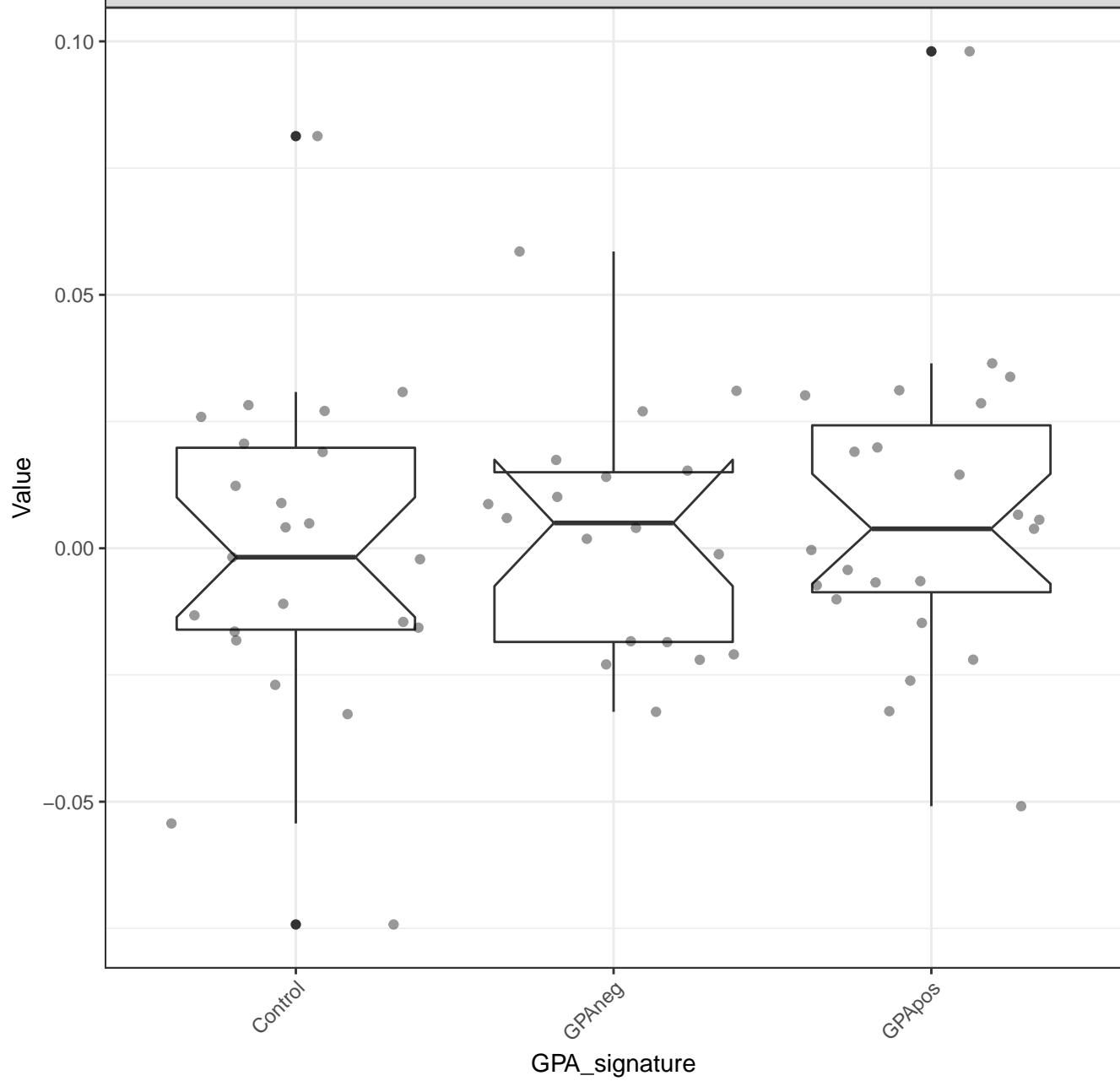
Value



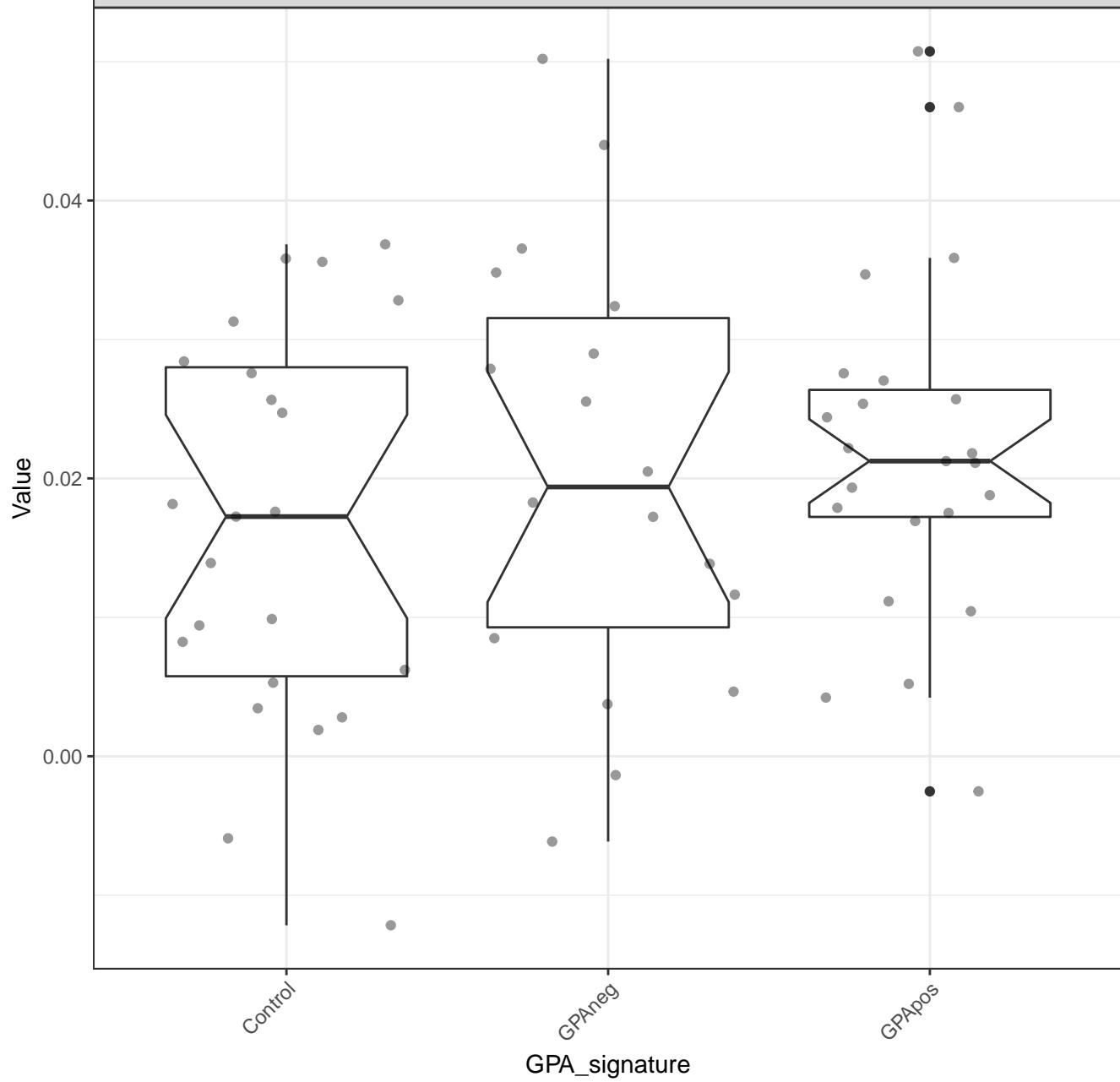
## 671,REACTOME\_COLLAGEN\_FORMATION

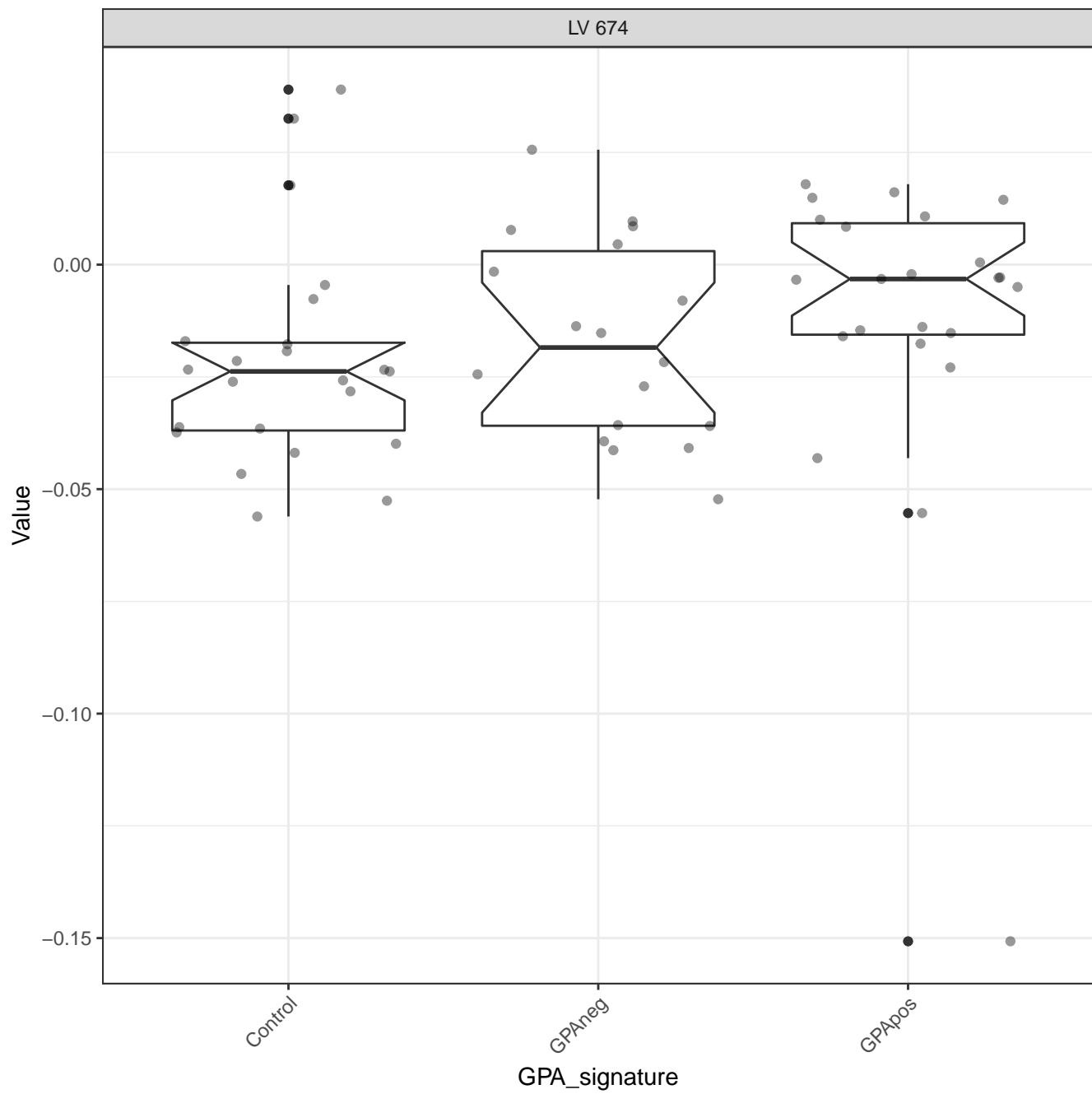


LV 672

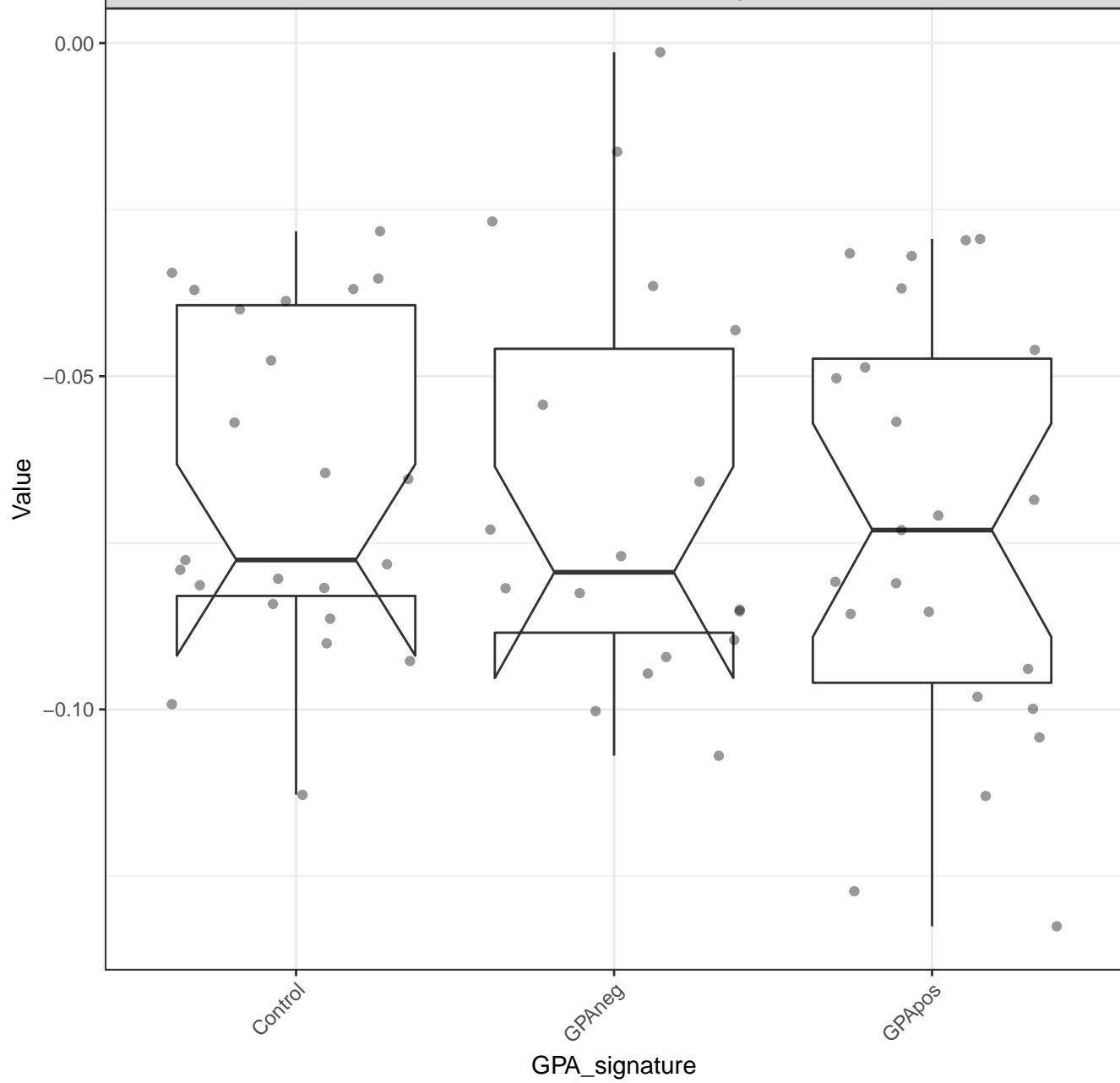


LV 673

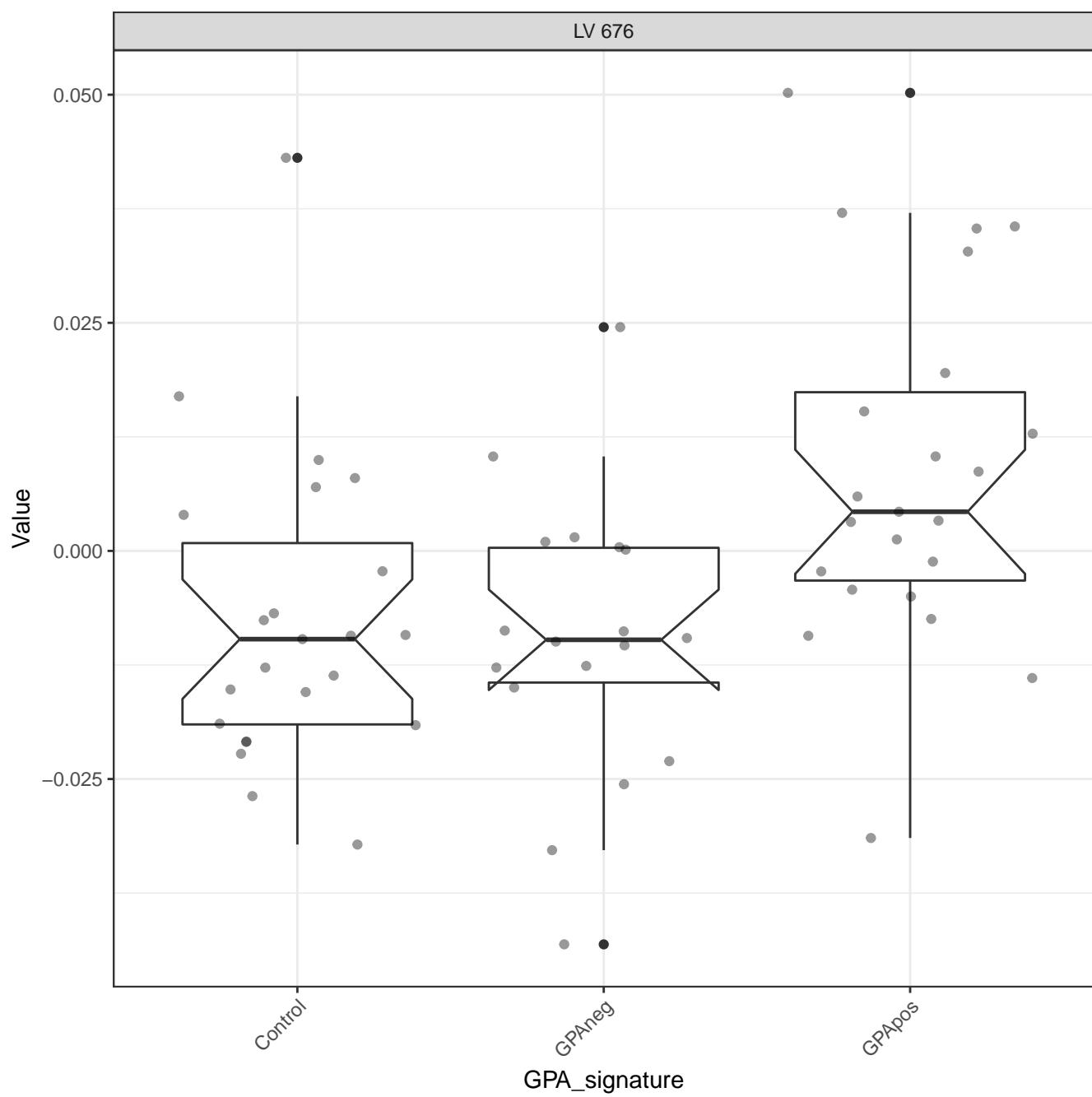




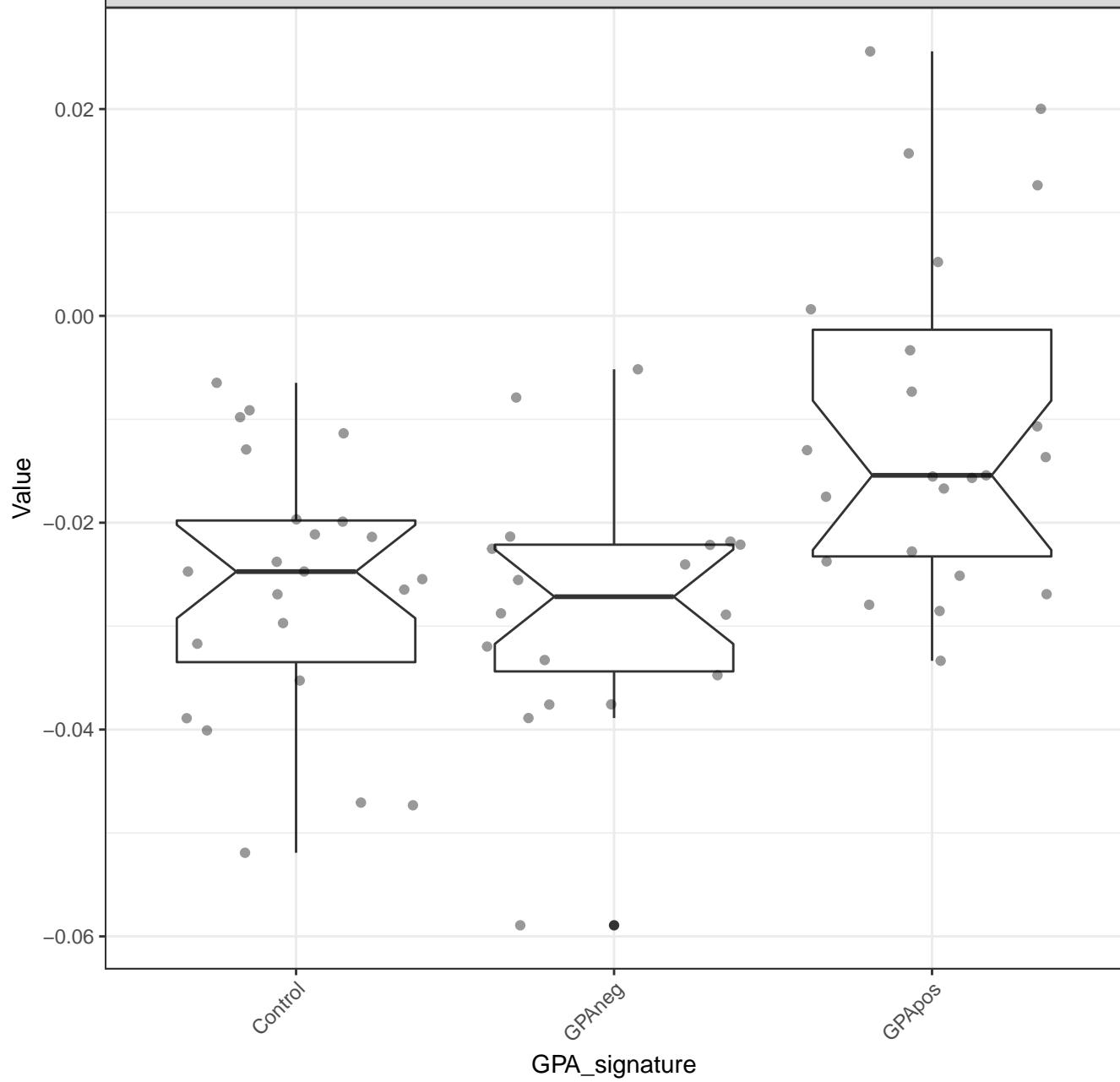
## 675,IRIS\_Neutrophil–Resting



LV 676



LV 677



ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSMOTIC\_COUPLING\_AND\_HEAT\_PRODUCTION

Value

0.20

0.15

0.10

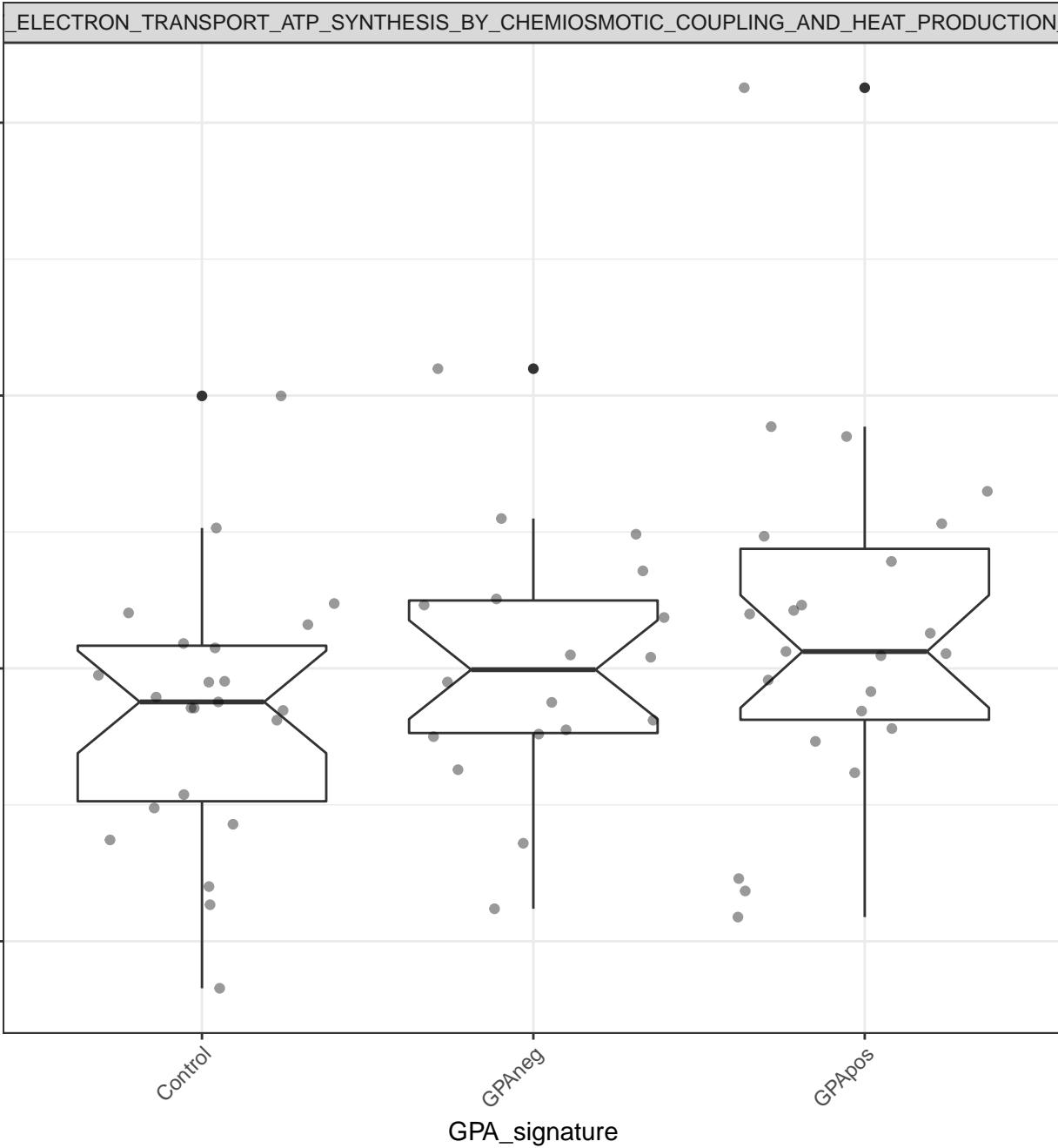
0.05

Control

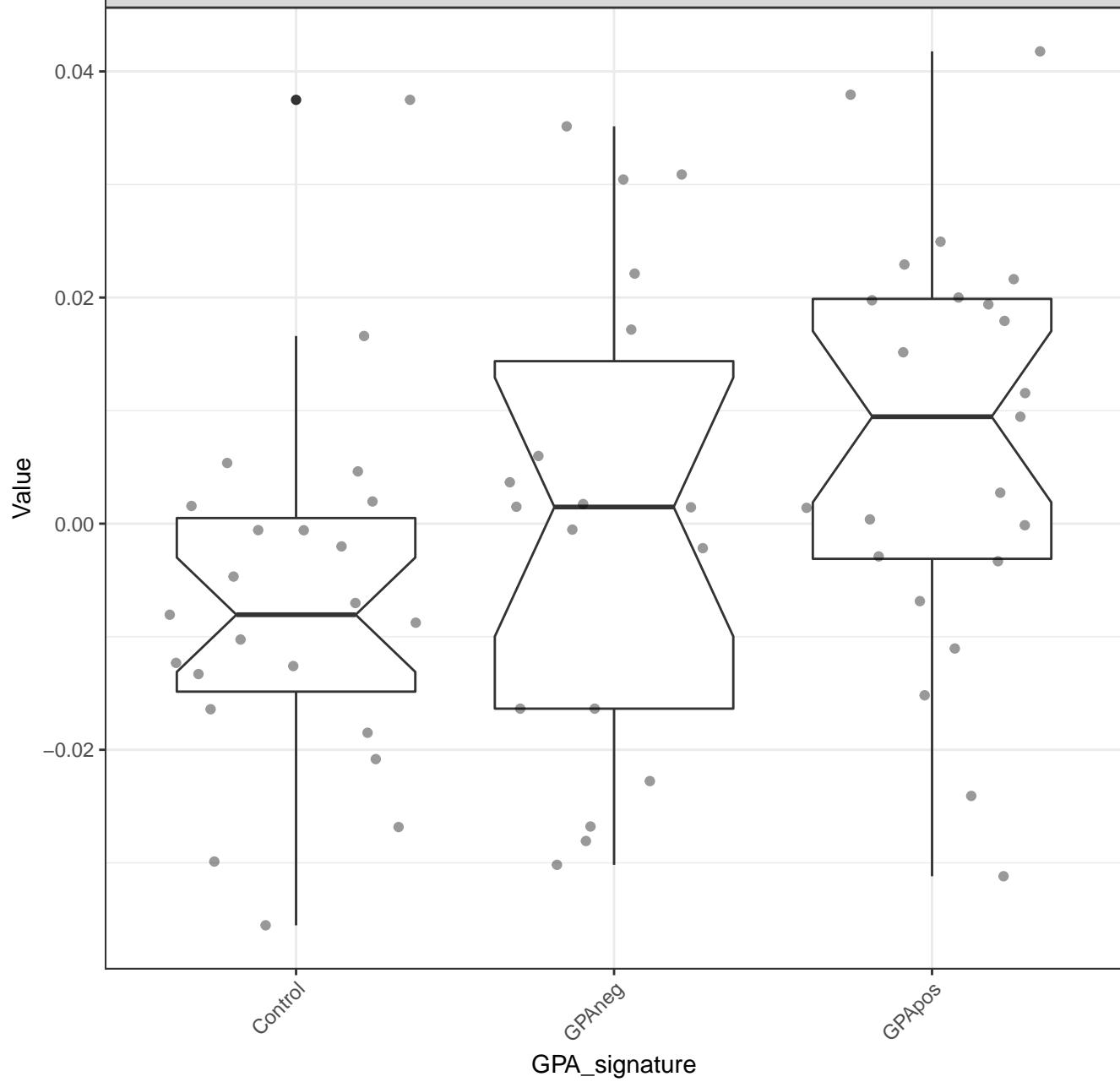
GPA\_signature

GPAneg

GPApos



LV 679



LV 680

Value

0.05

0.01

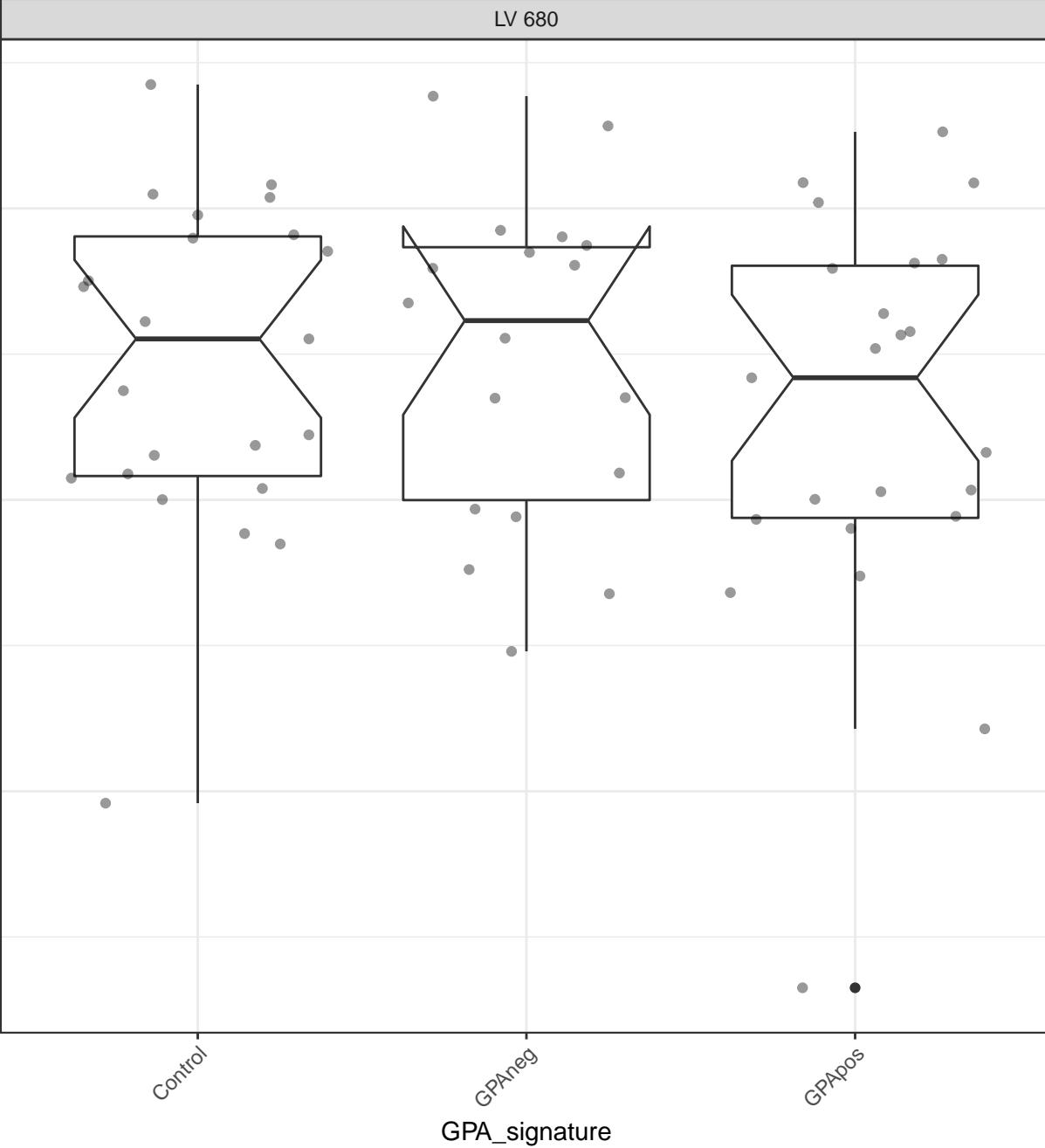
-0.05

Control

GPAneg

GPApos

GPA\_signature



LV 681

Value

0.05

0.00

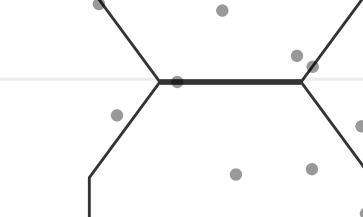
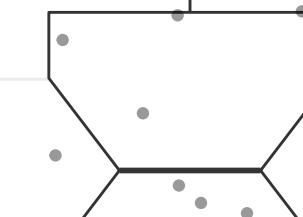
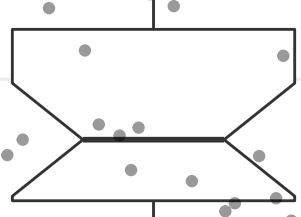
-0.05

Control

GPAneg

GPApos

GPA\_signature



Value

0.05

0.00

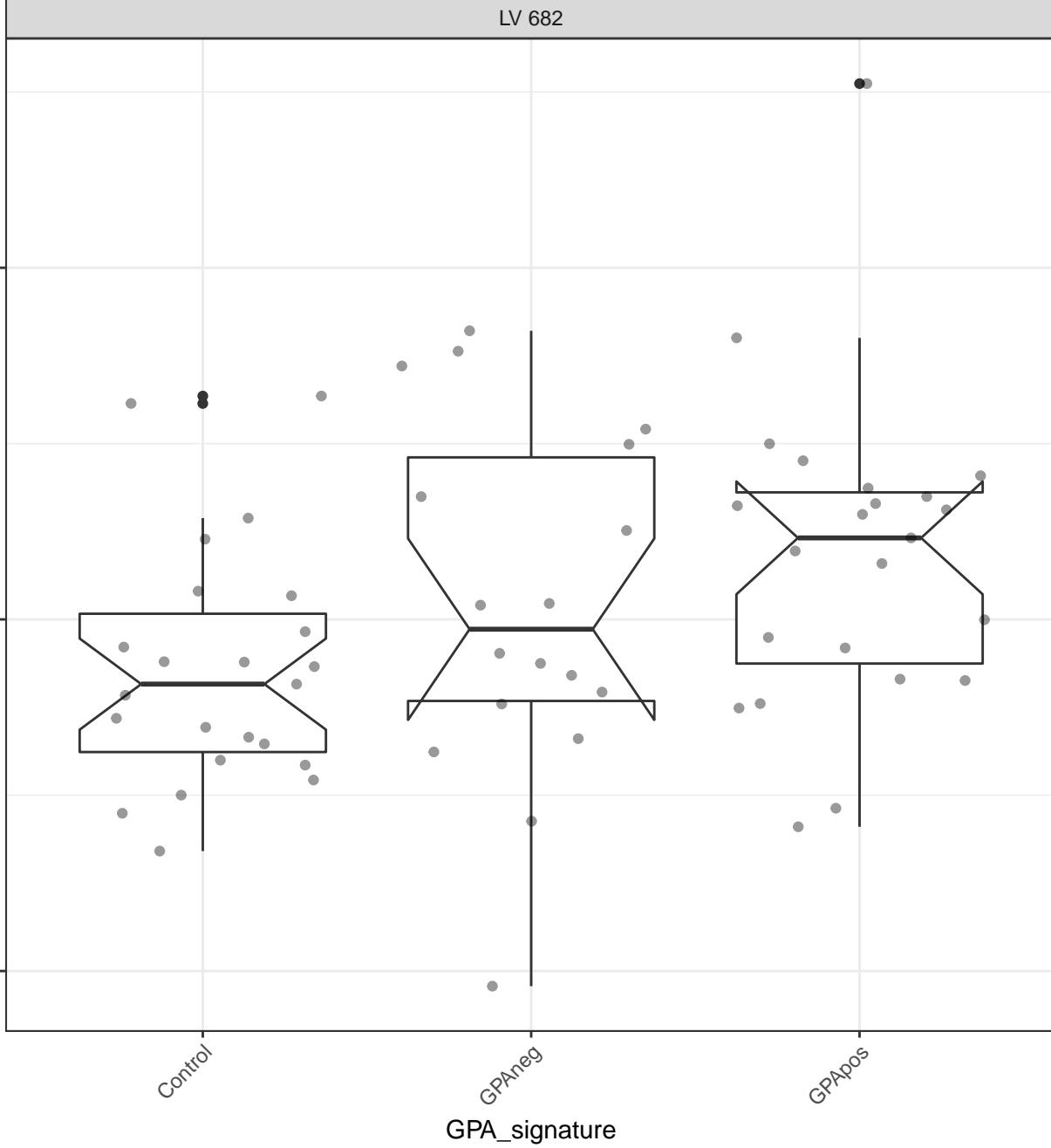
-0.05

Control

GPA\_signature

GPAneg

GPAPos



LV 683

Value

0.08

0.04

0.00

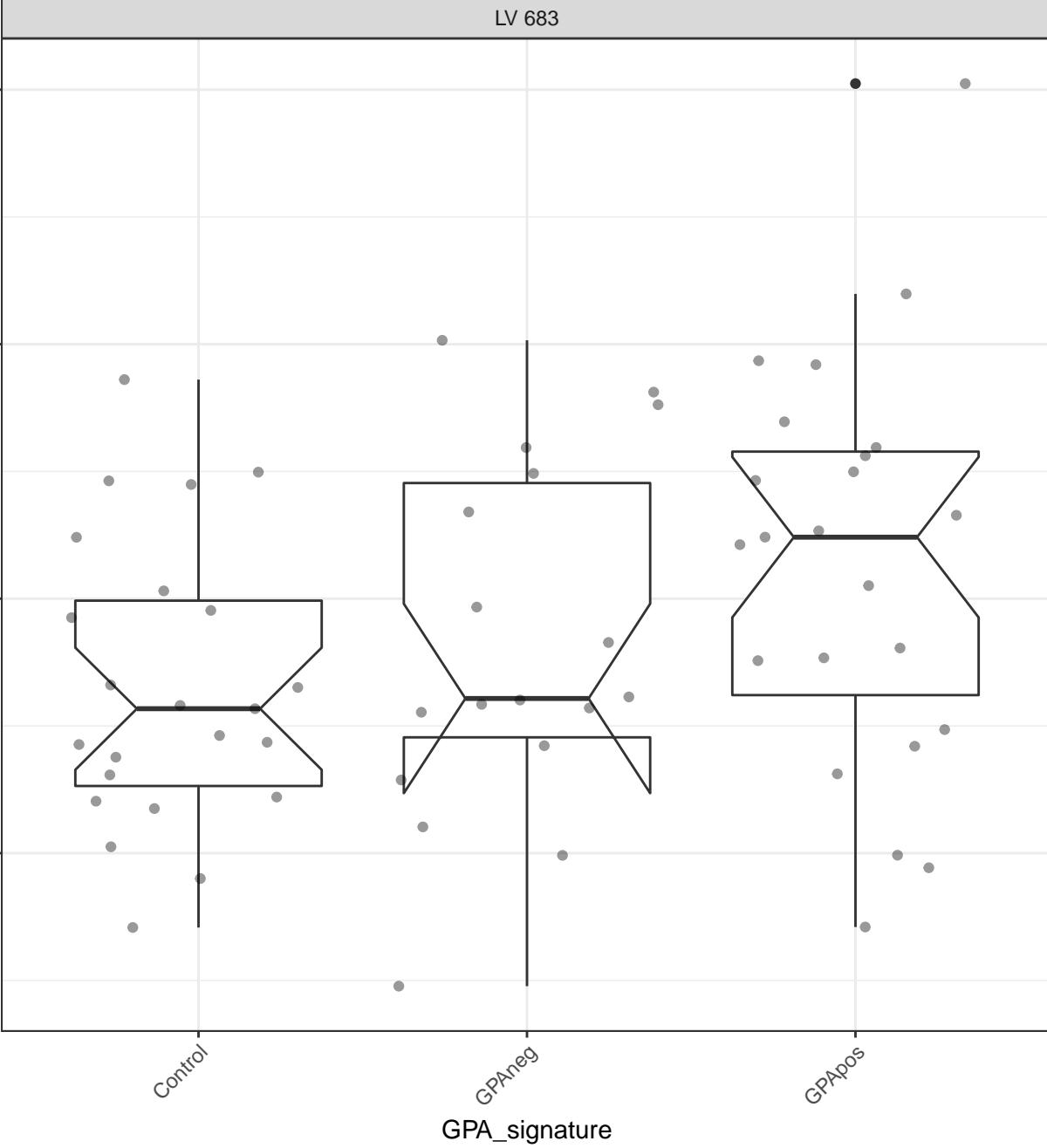
-0.04

Control

GPAneg

GPAPos

GPA\_signature



## 684,KEGG\_CELL\_CYCLE

Value

0.10

0.05

0.00

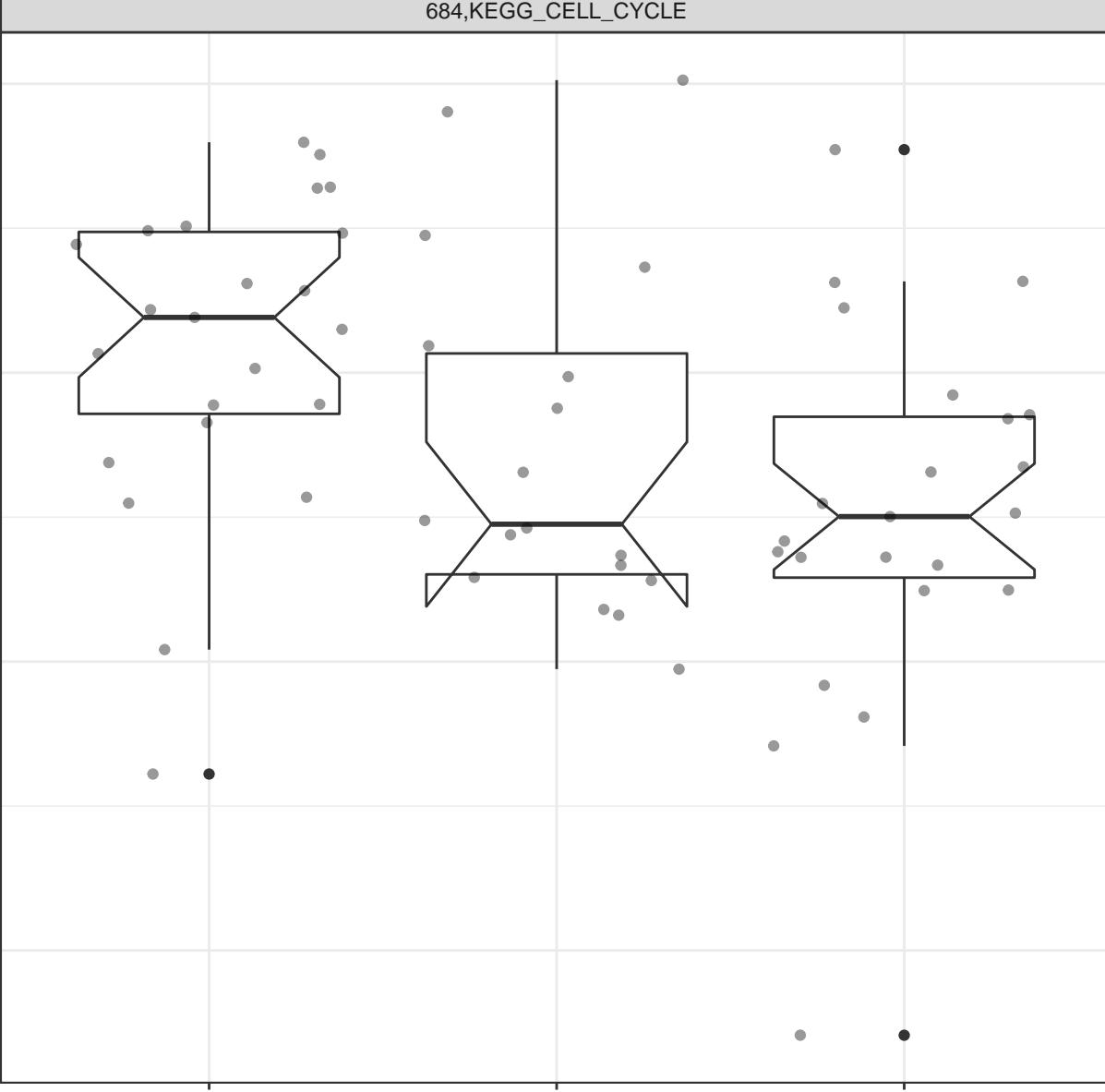
-0.05

Control

GPA\_signature

GPAneg

GPApos



LV 685

Value

0.025

0.000

-0.025

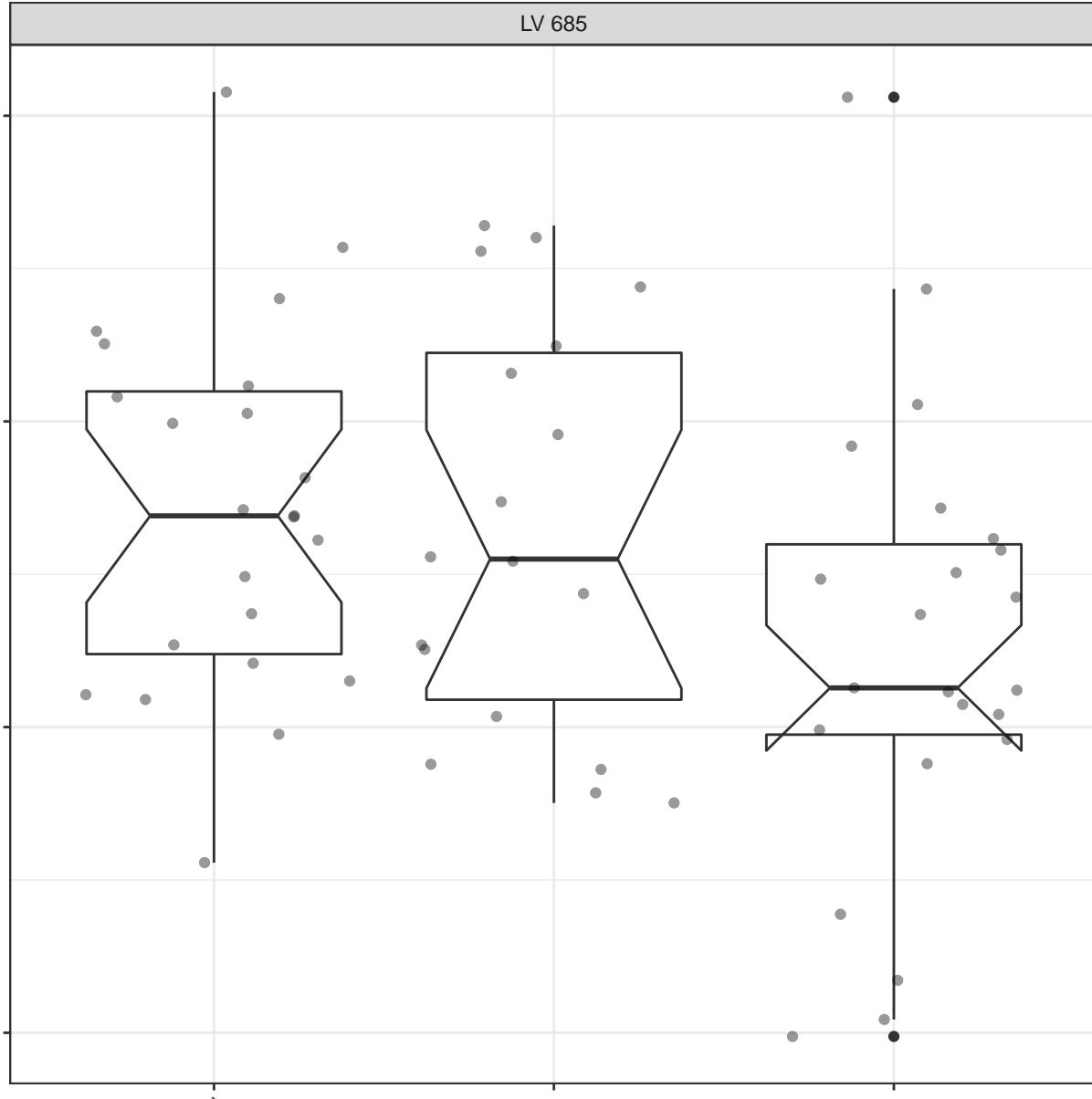
-0.050

Control

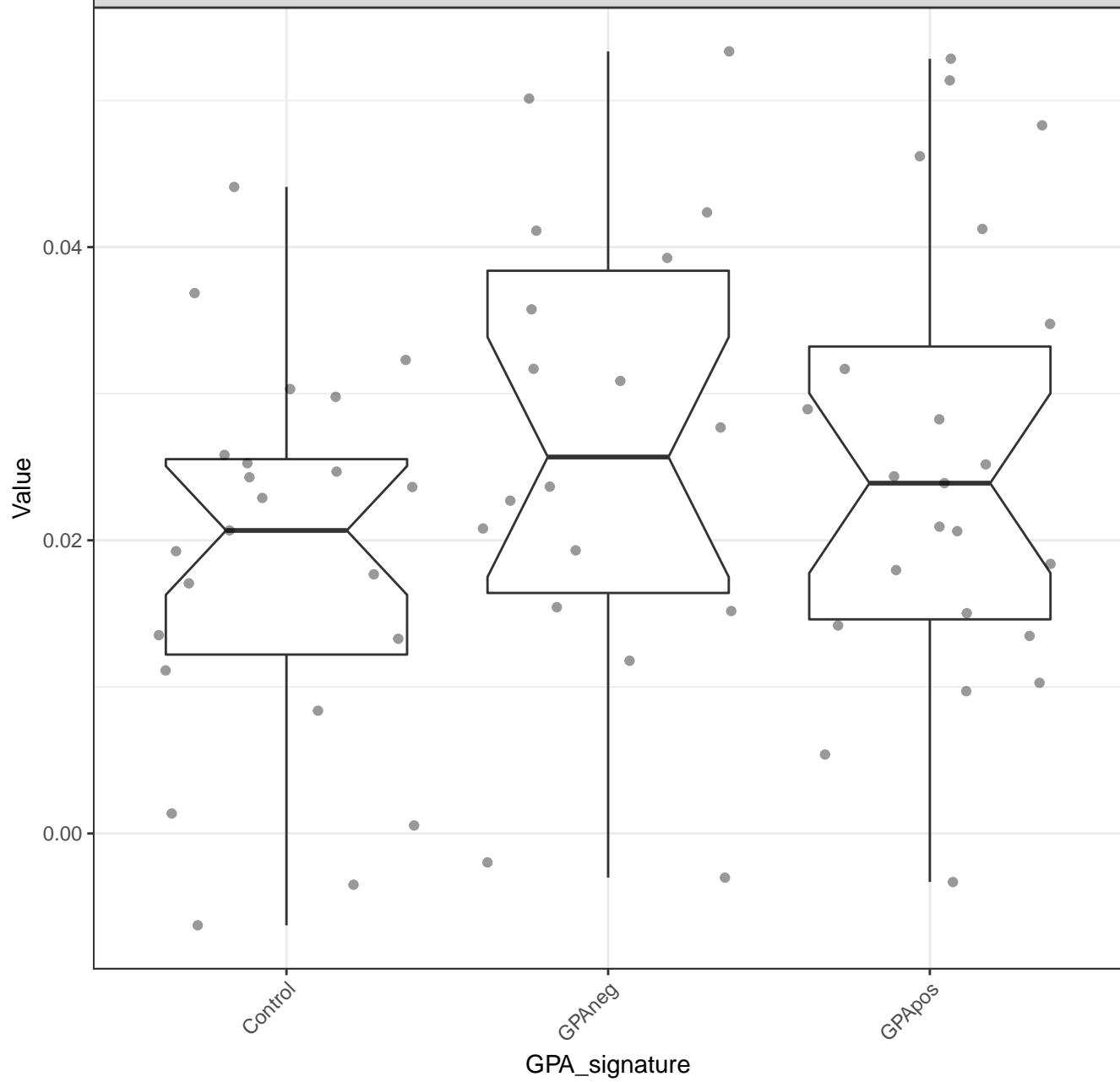
GPA\_signature

GPAneg

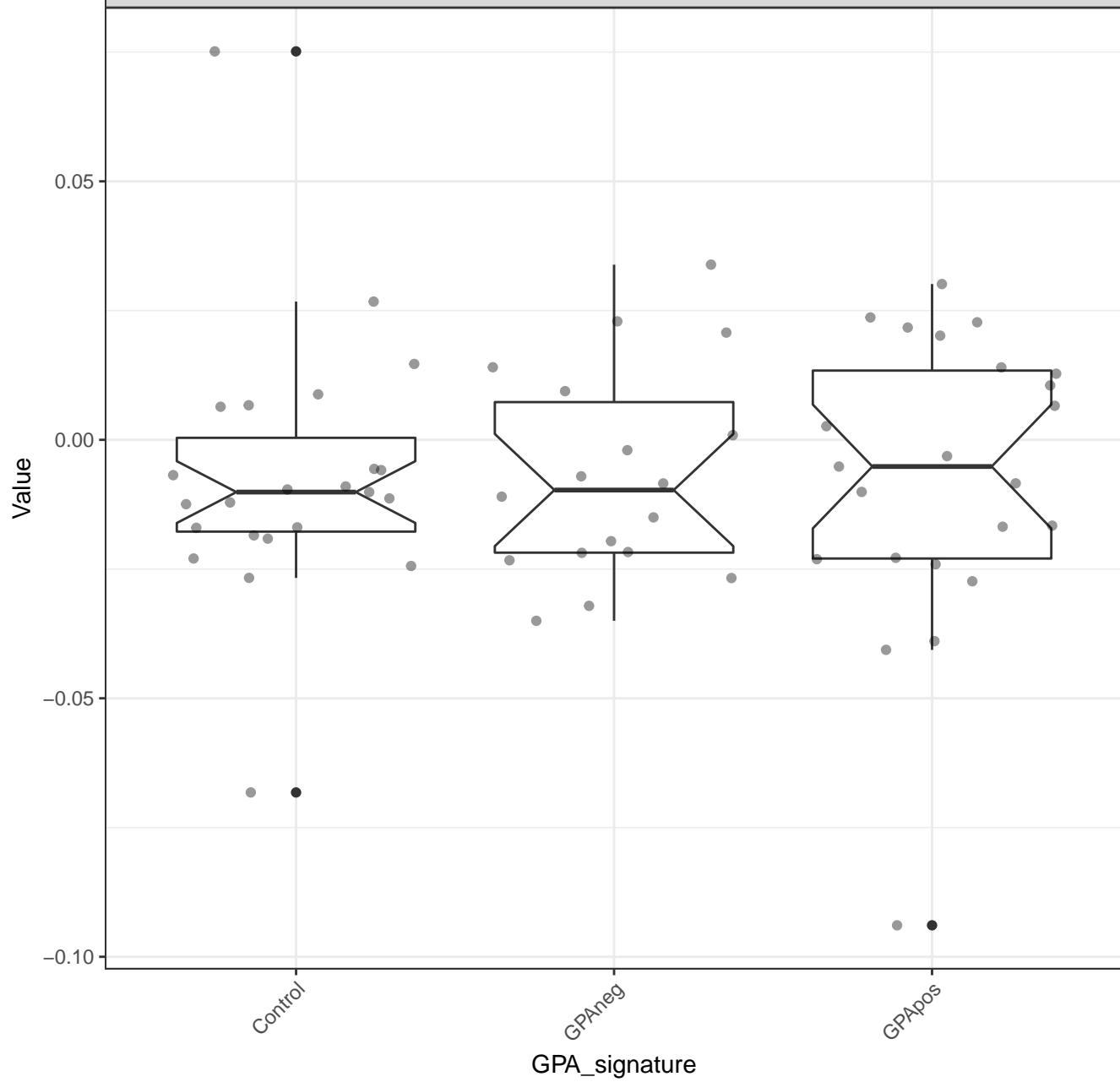
GPAPos



LV 686



## LV 687



LV 688

Value

0.10

0.05

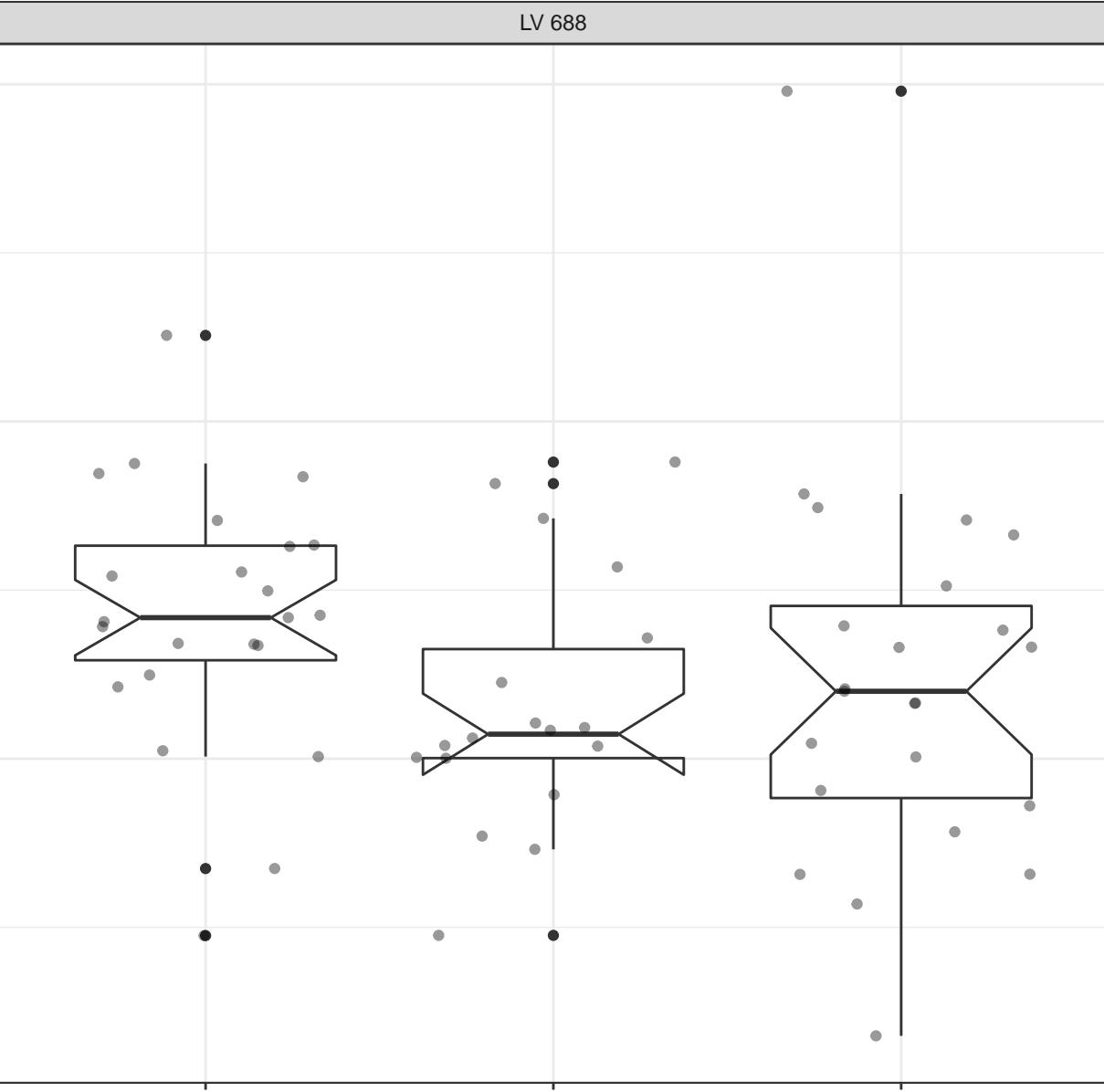
0.00

Control

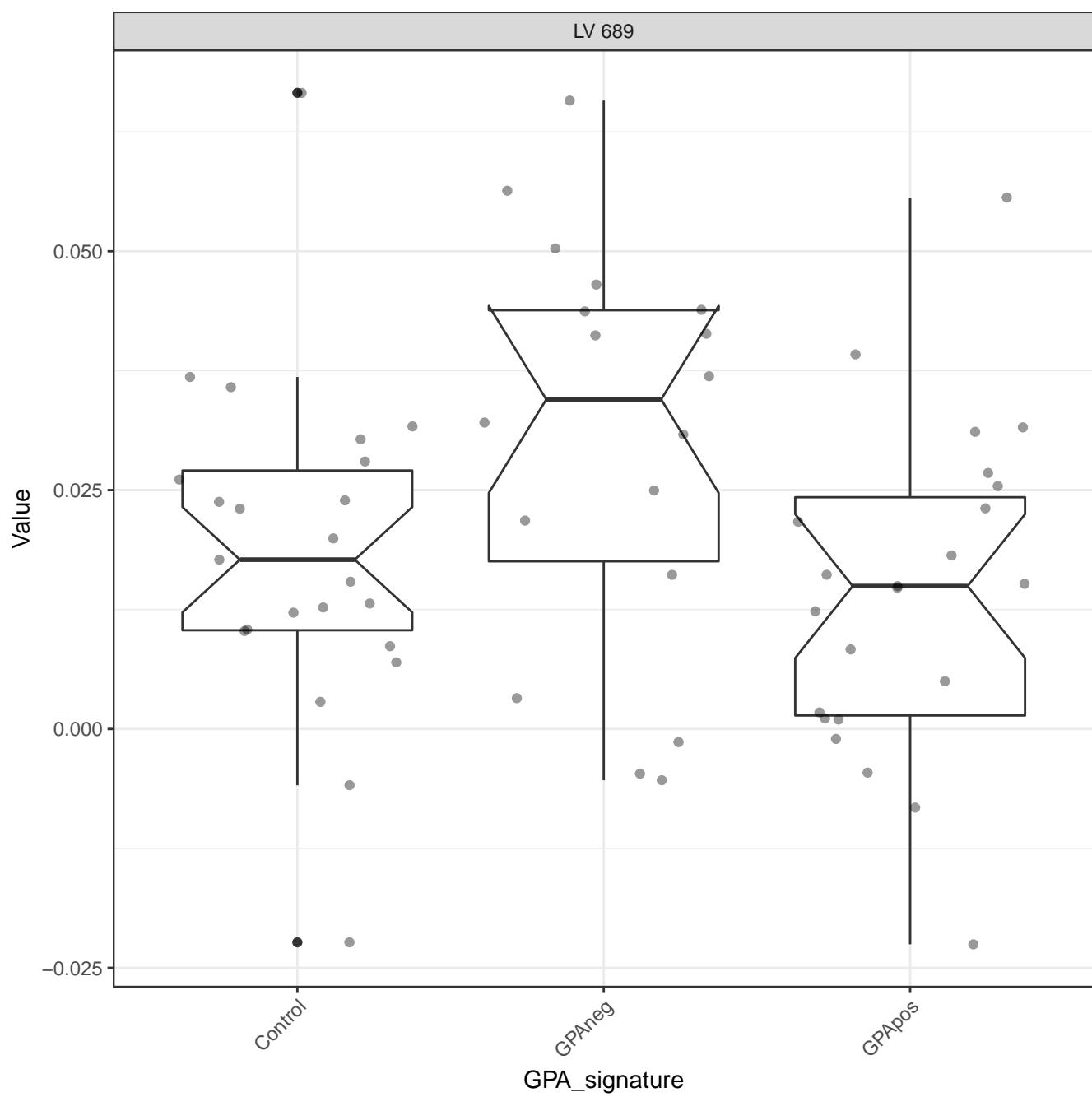
GPA\_signature

GPAneg

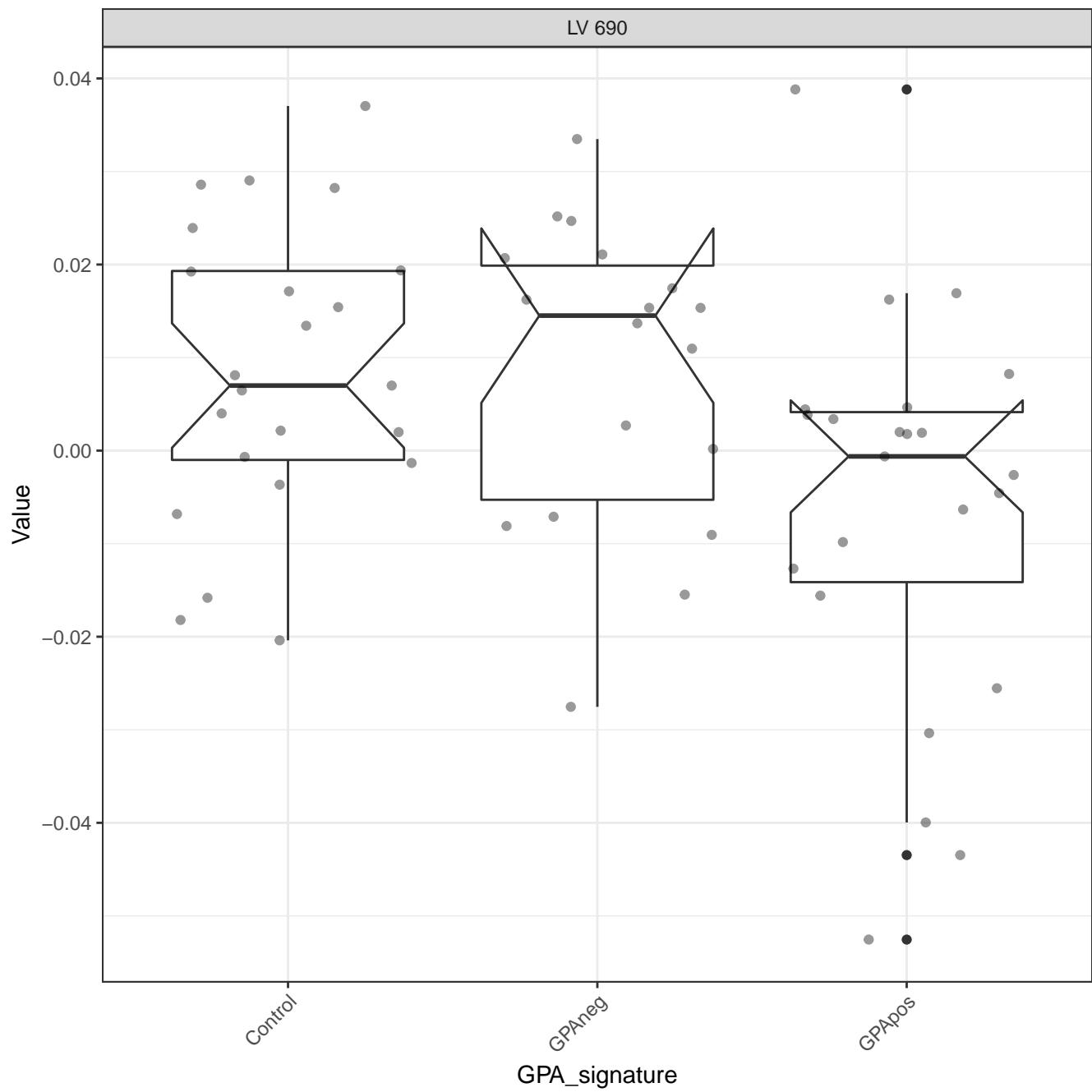
GPApos



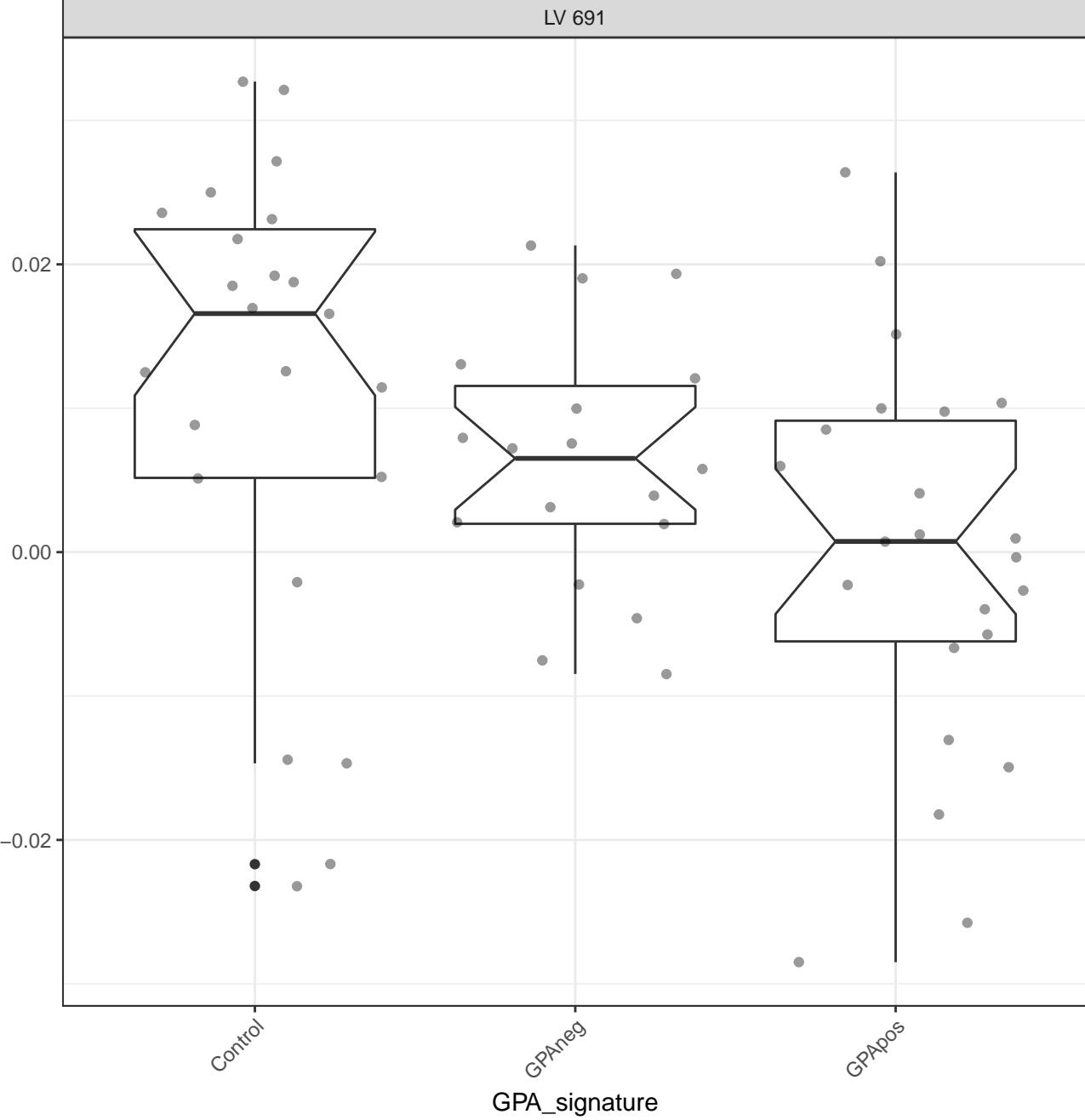
## LV 689



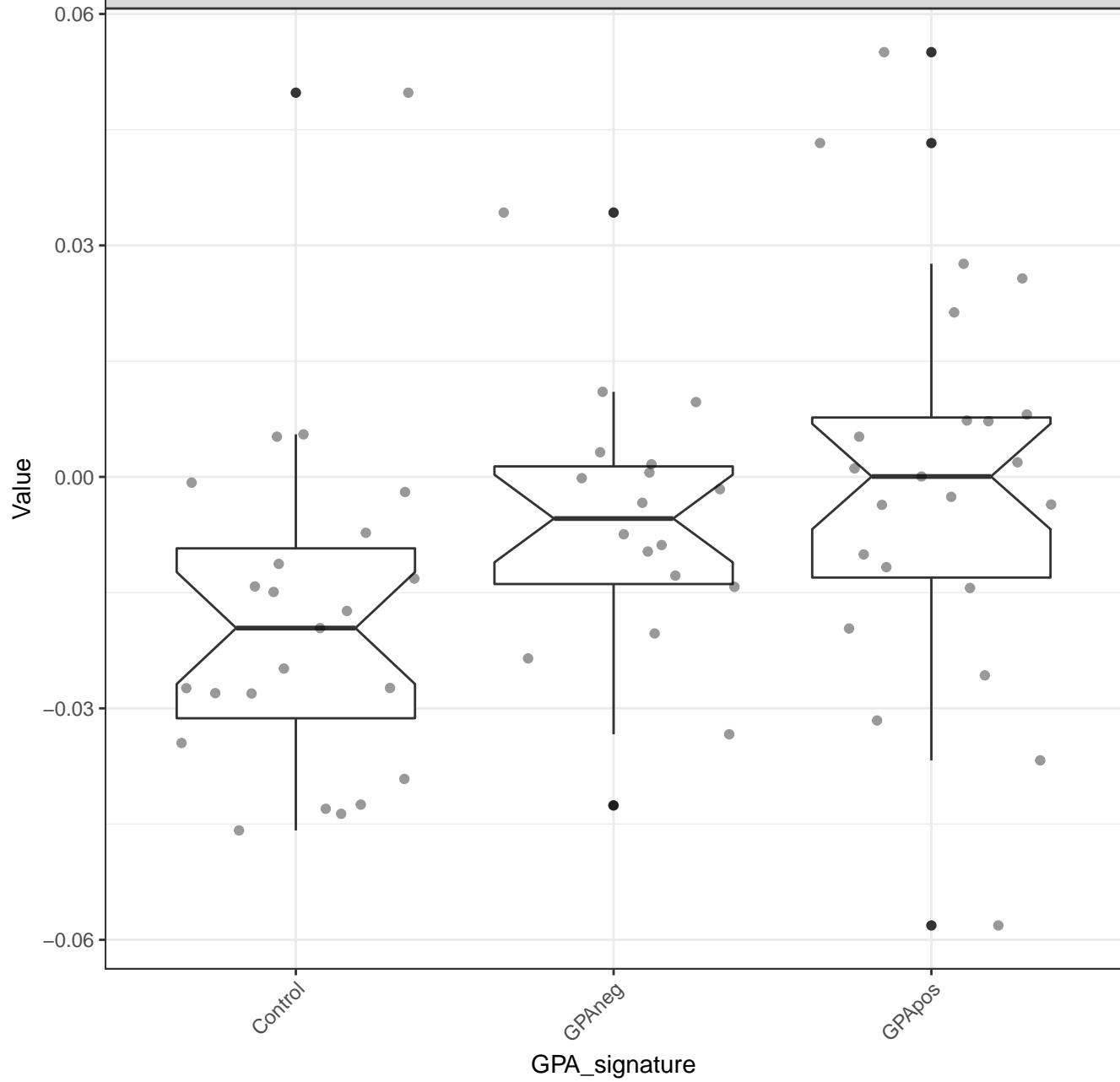
LV 690



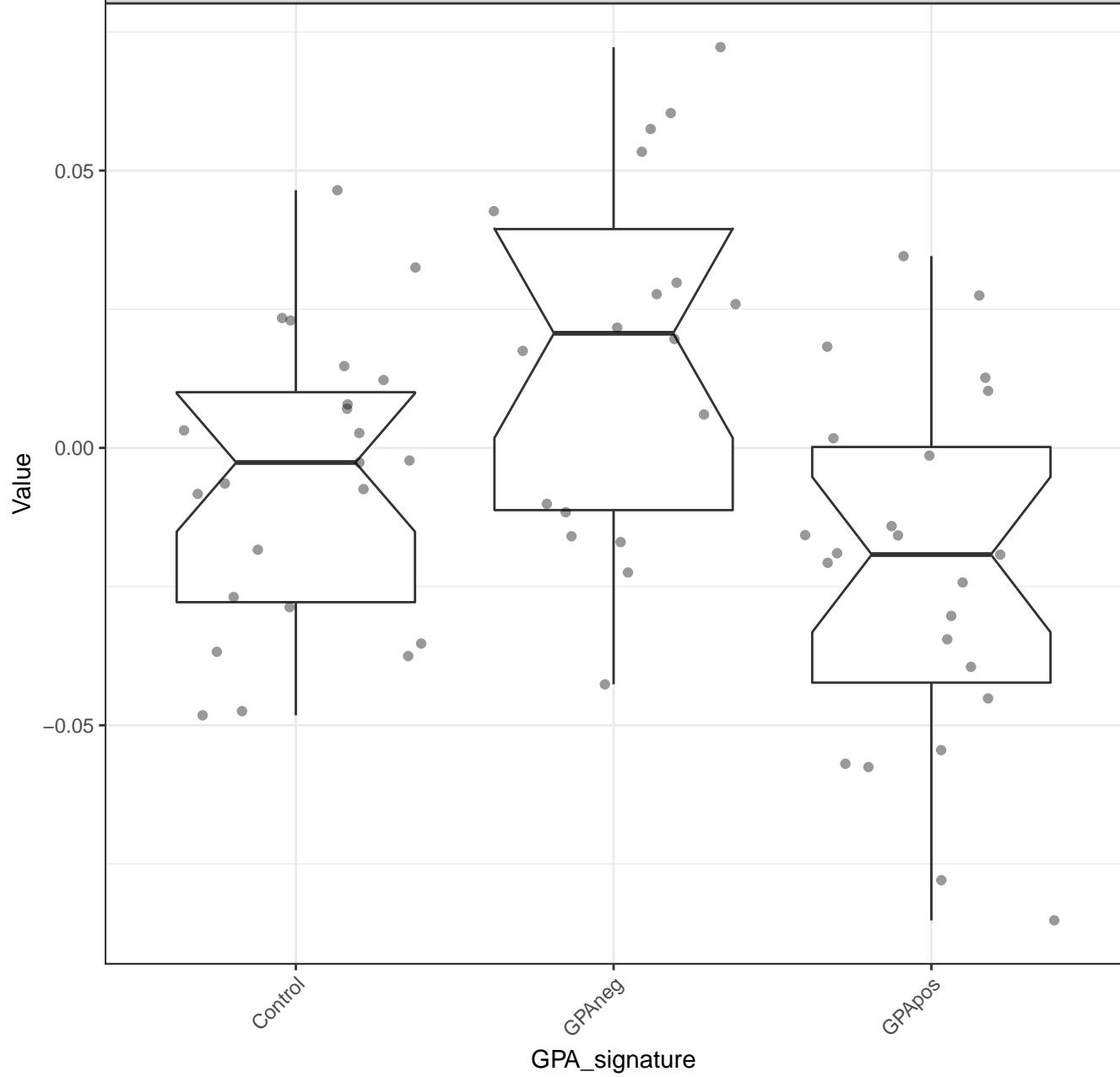
Value



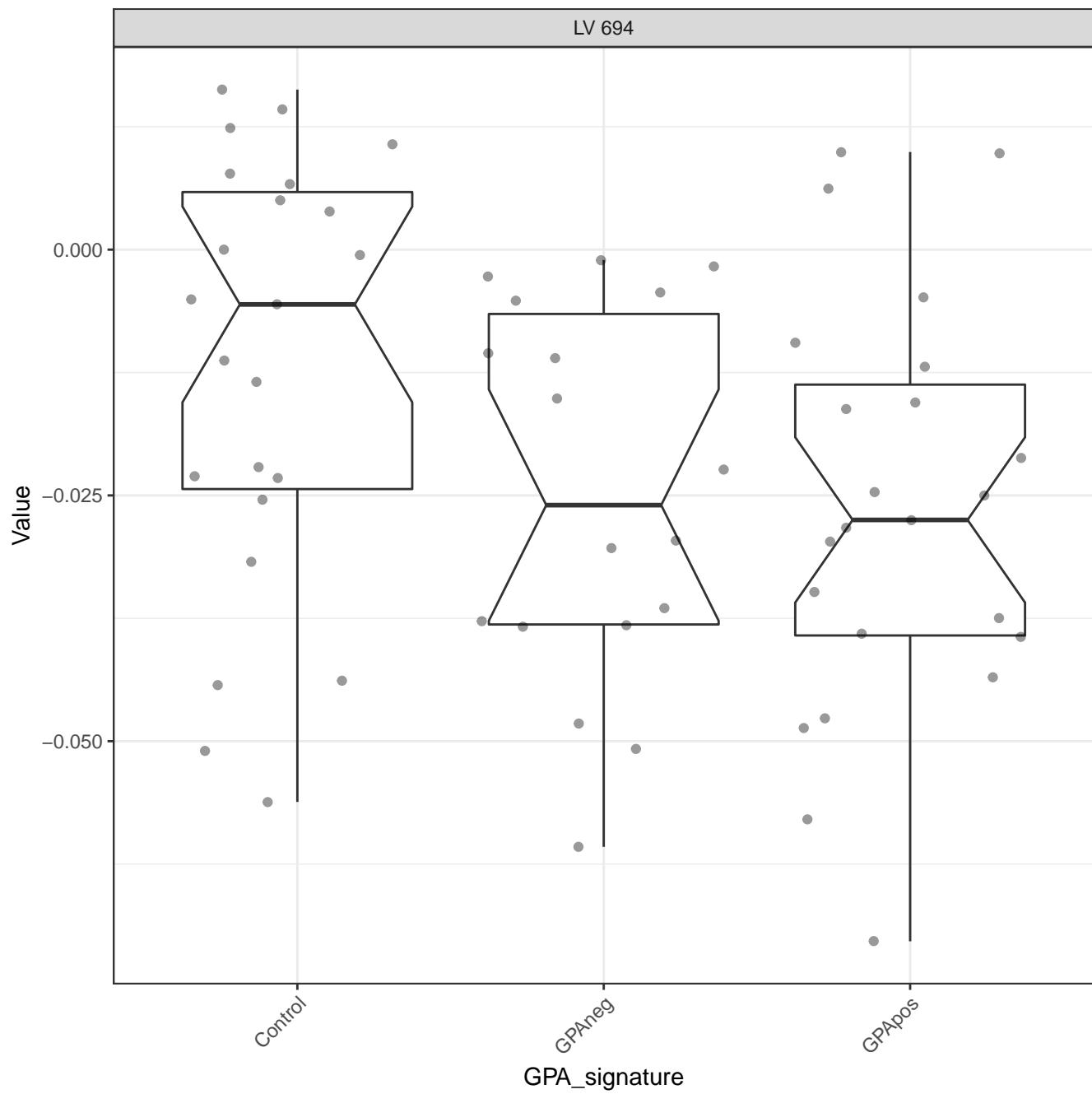
LV 692



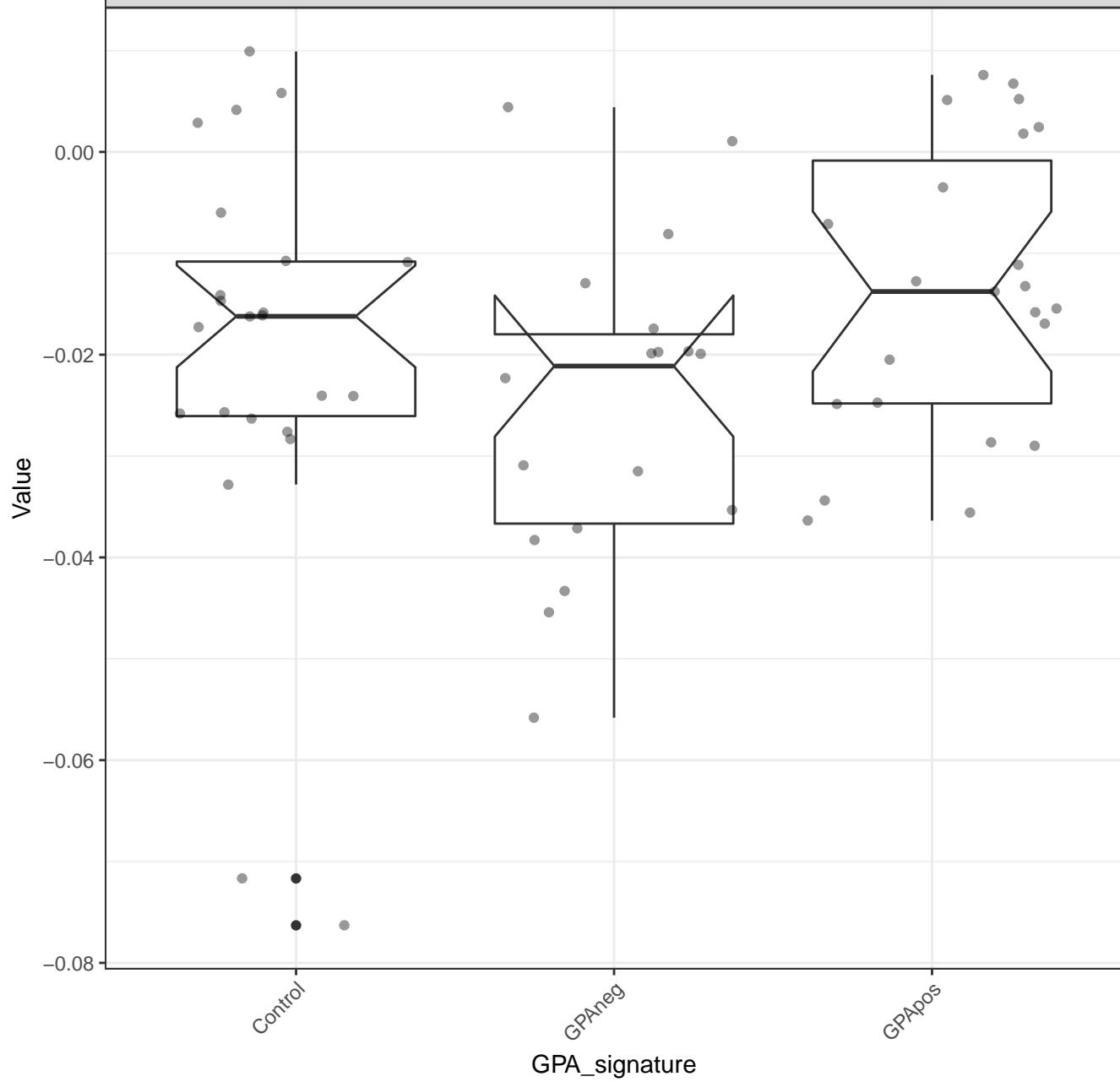
## LV 693



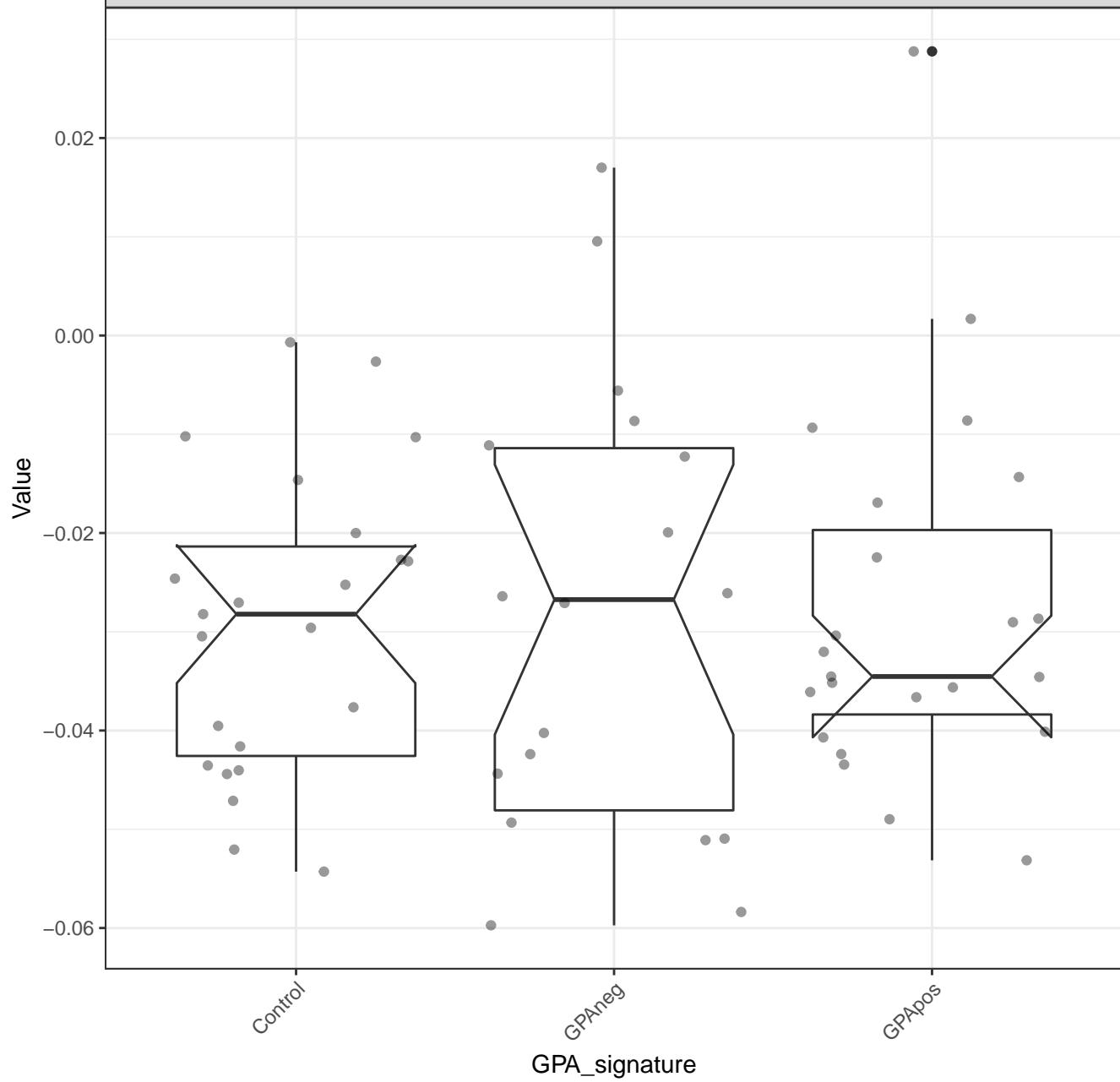
LV 694



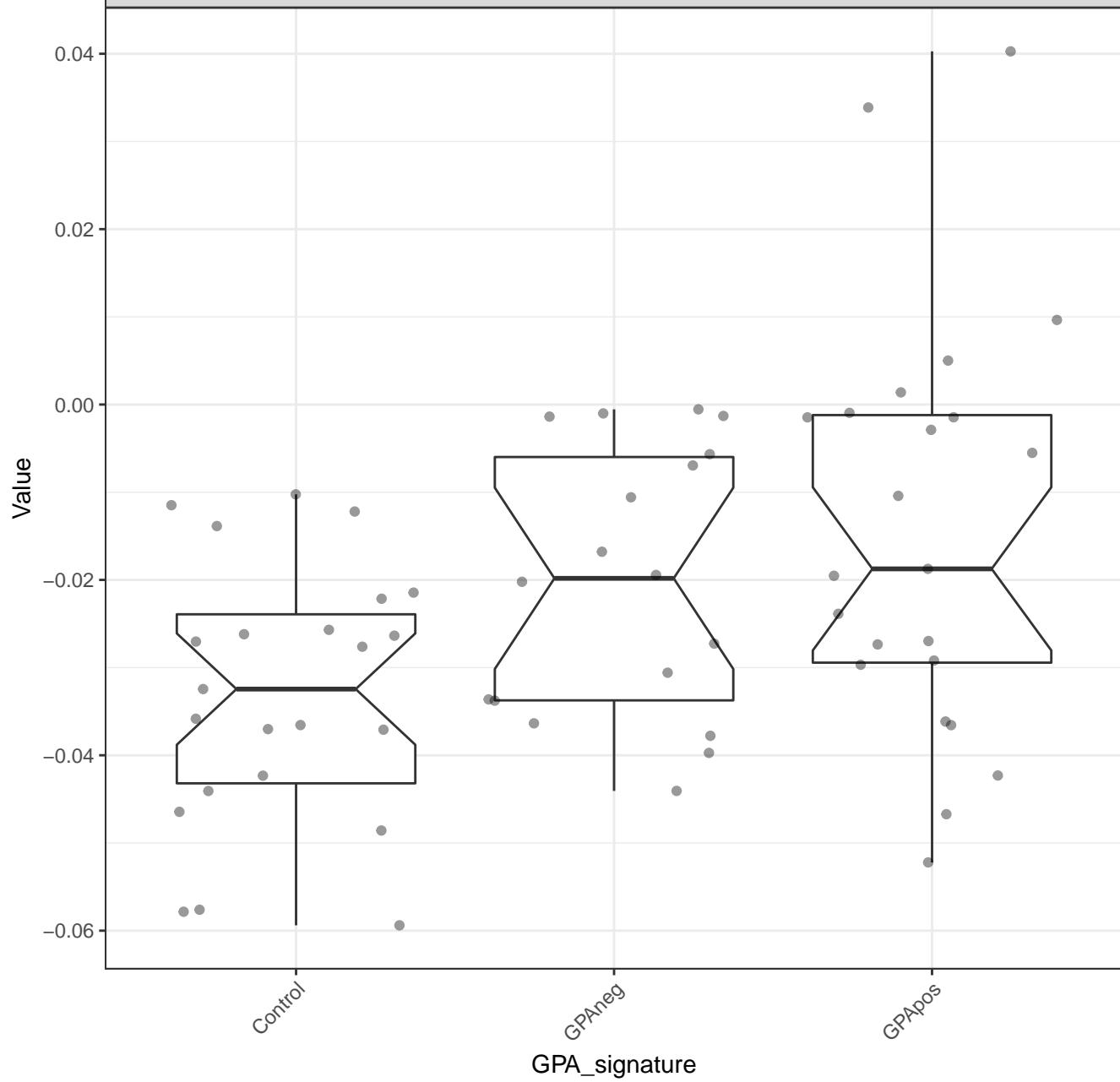
LV 695



LV 696



LV 697

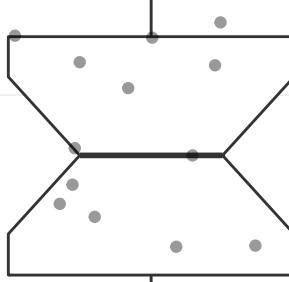


LV 698

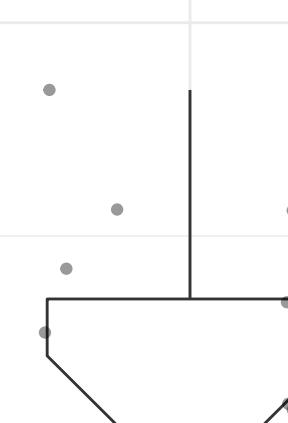
Value

0.05

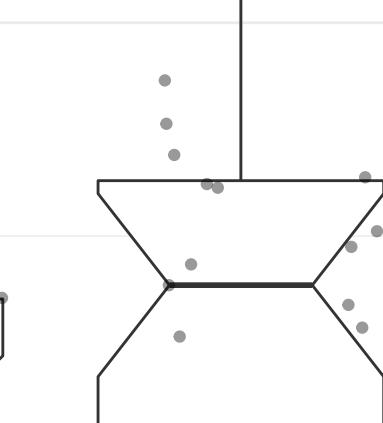
0.00



Control



GPAneg



GPApos

LV 699

Value

0.05

0.00

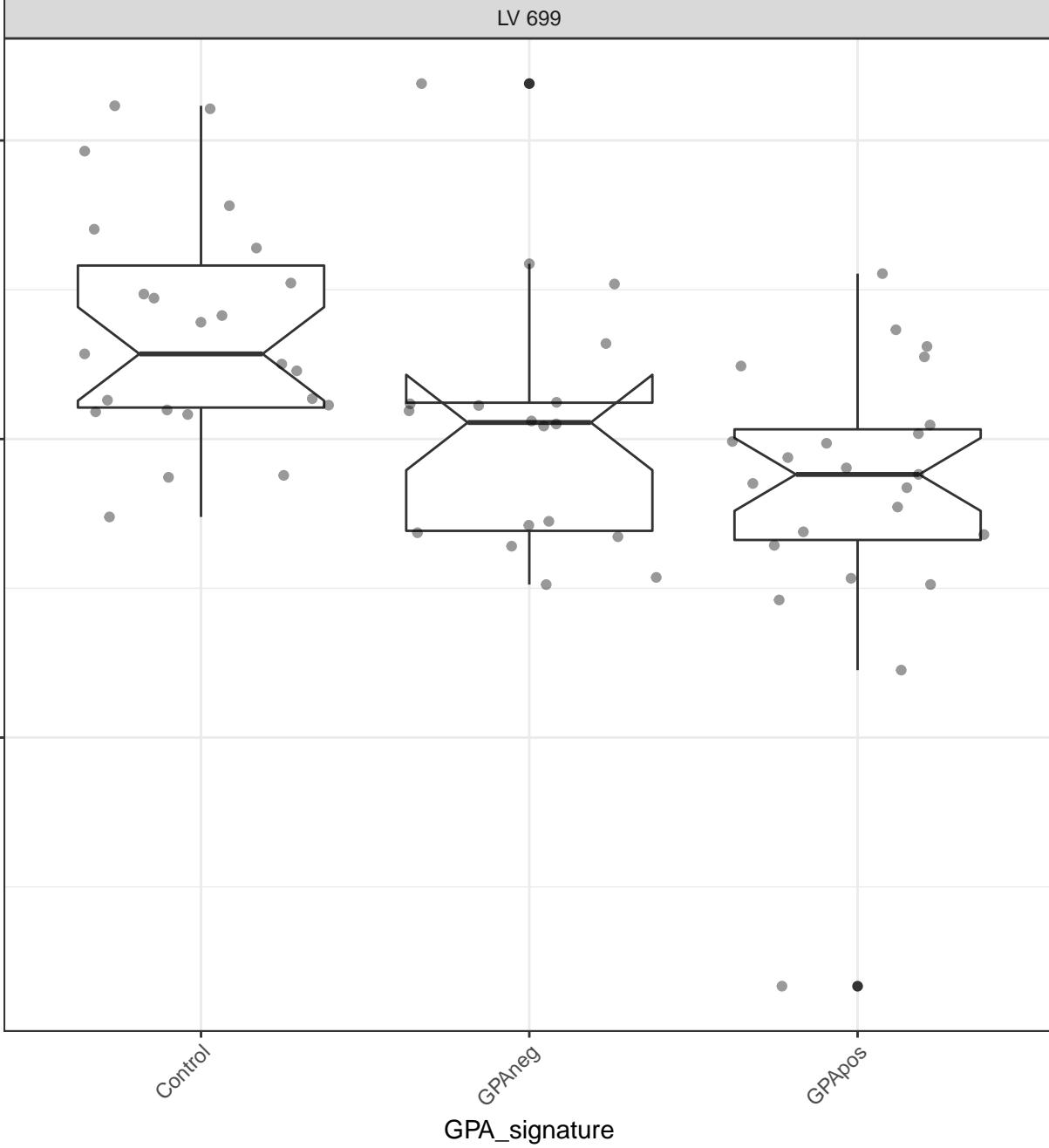
-0.05

Control

GPAneg

GPAPos

GPA\_signature



LV 700

Value

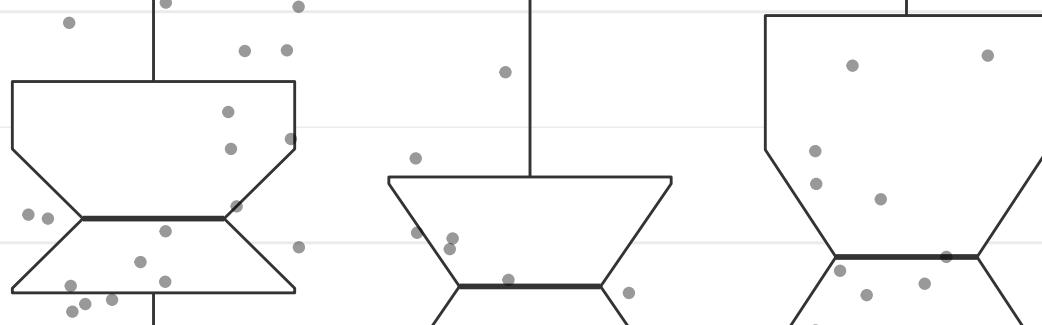
0.04  
0.02  
0.00  
-0.02  
-0.04

Control

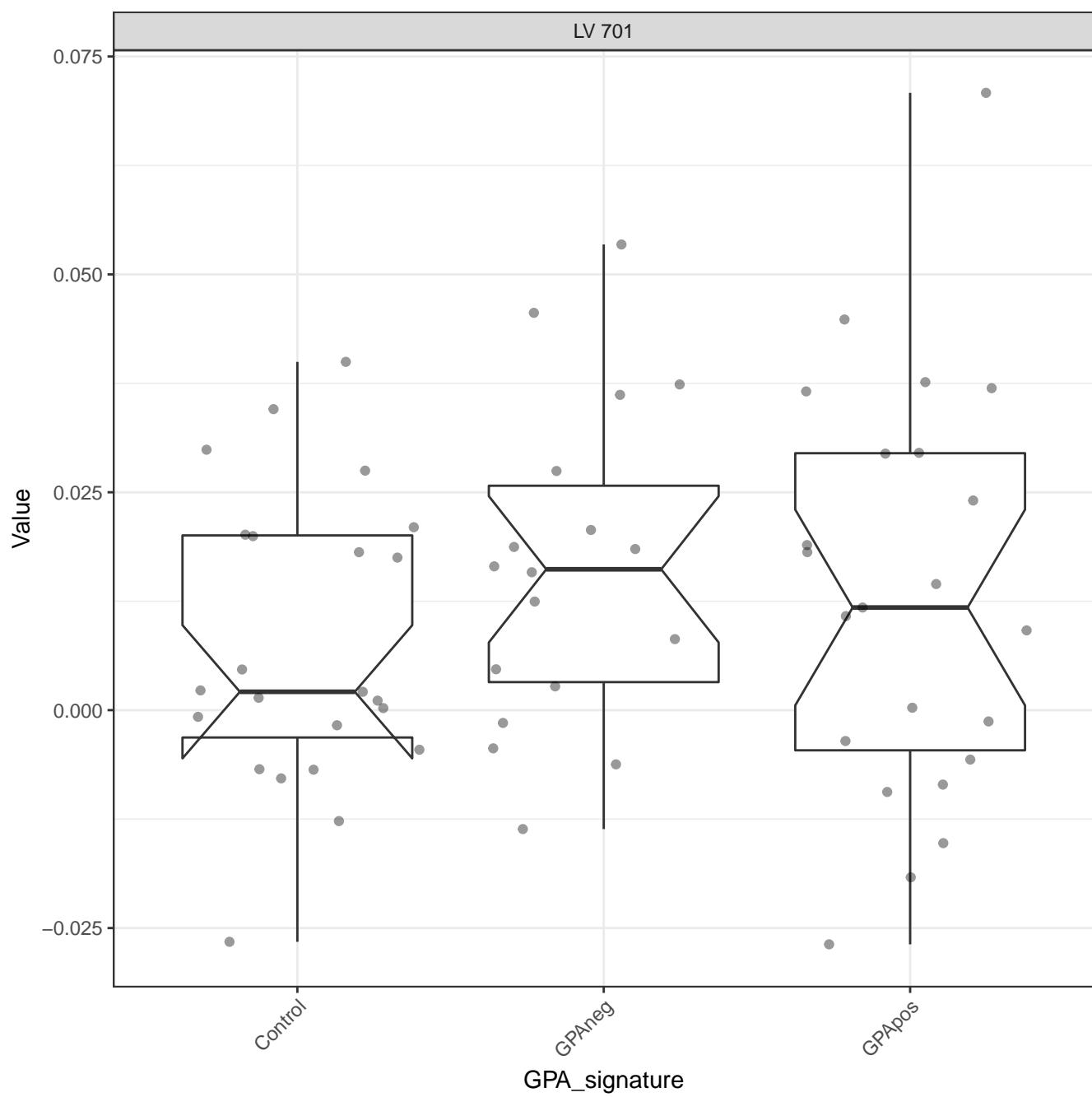
GPAneg

GPApos

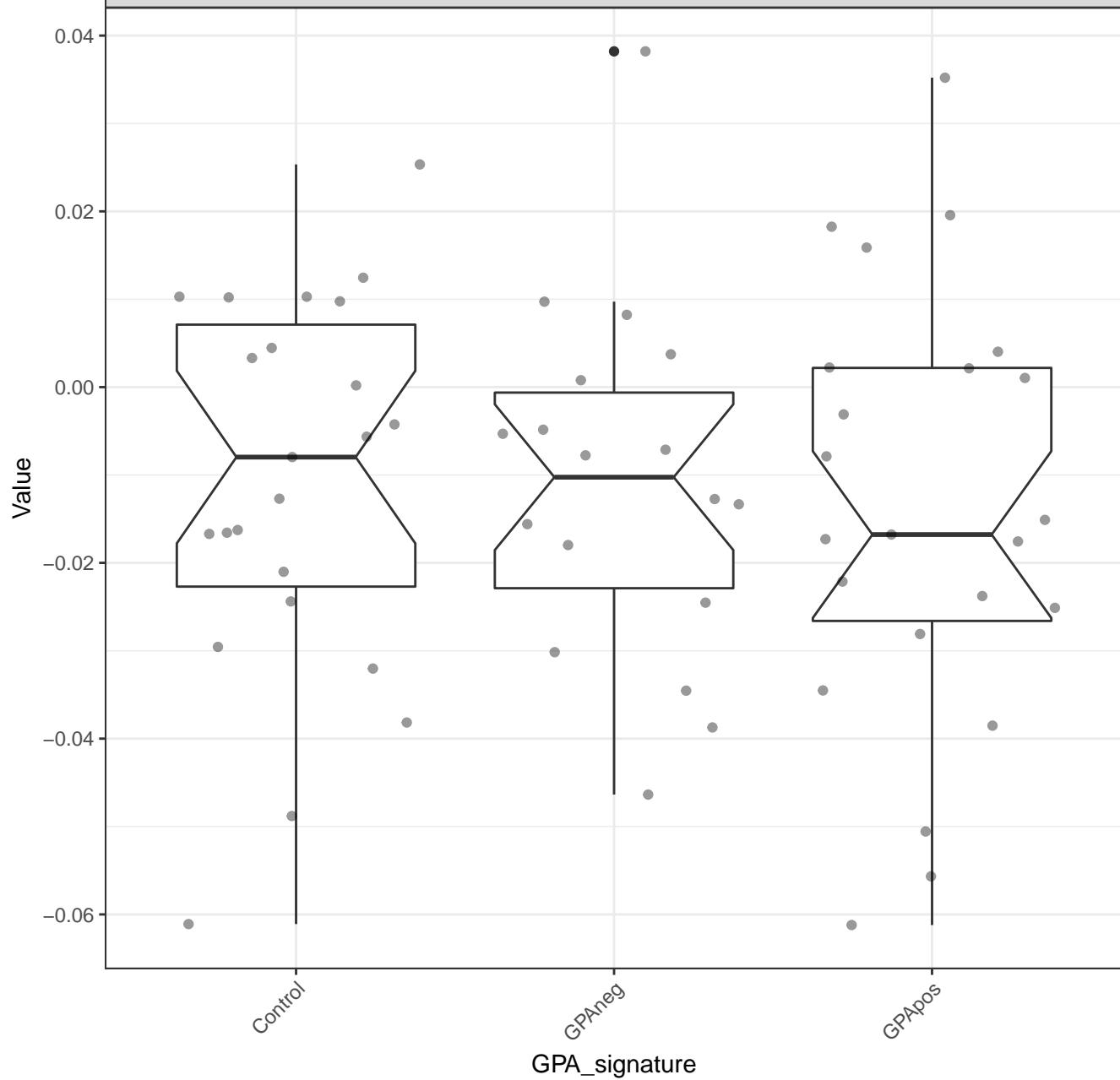
GPA\_signature



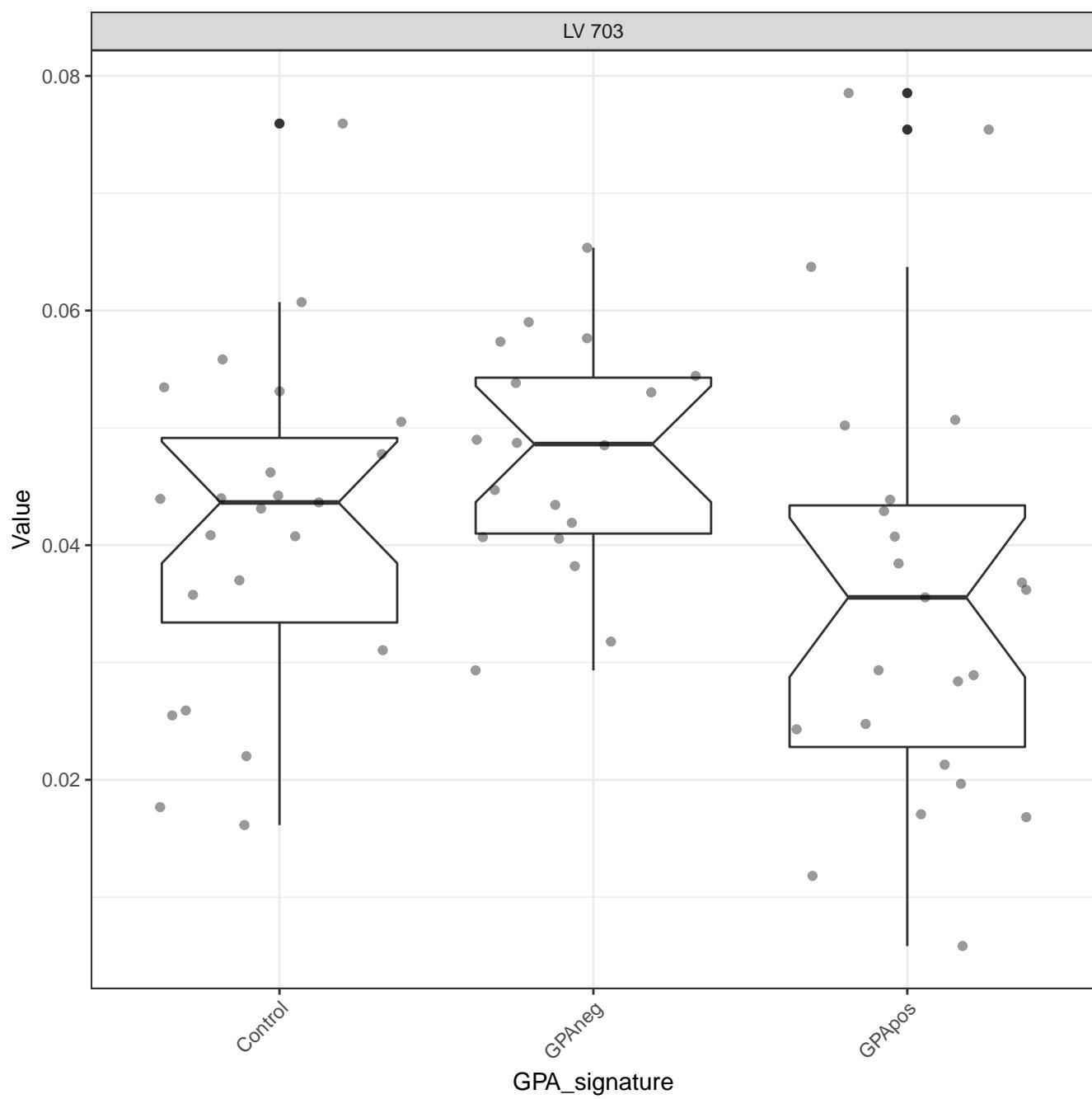
LV 701



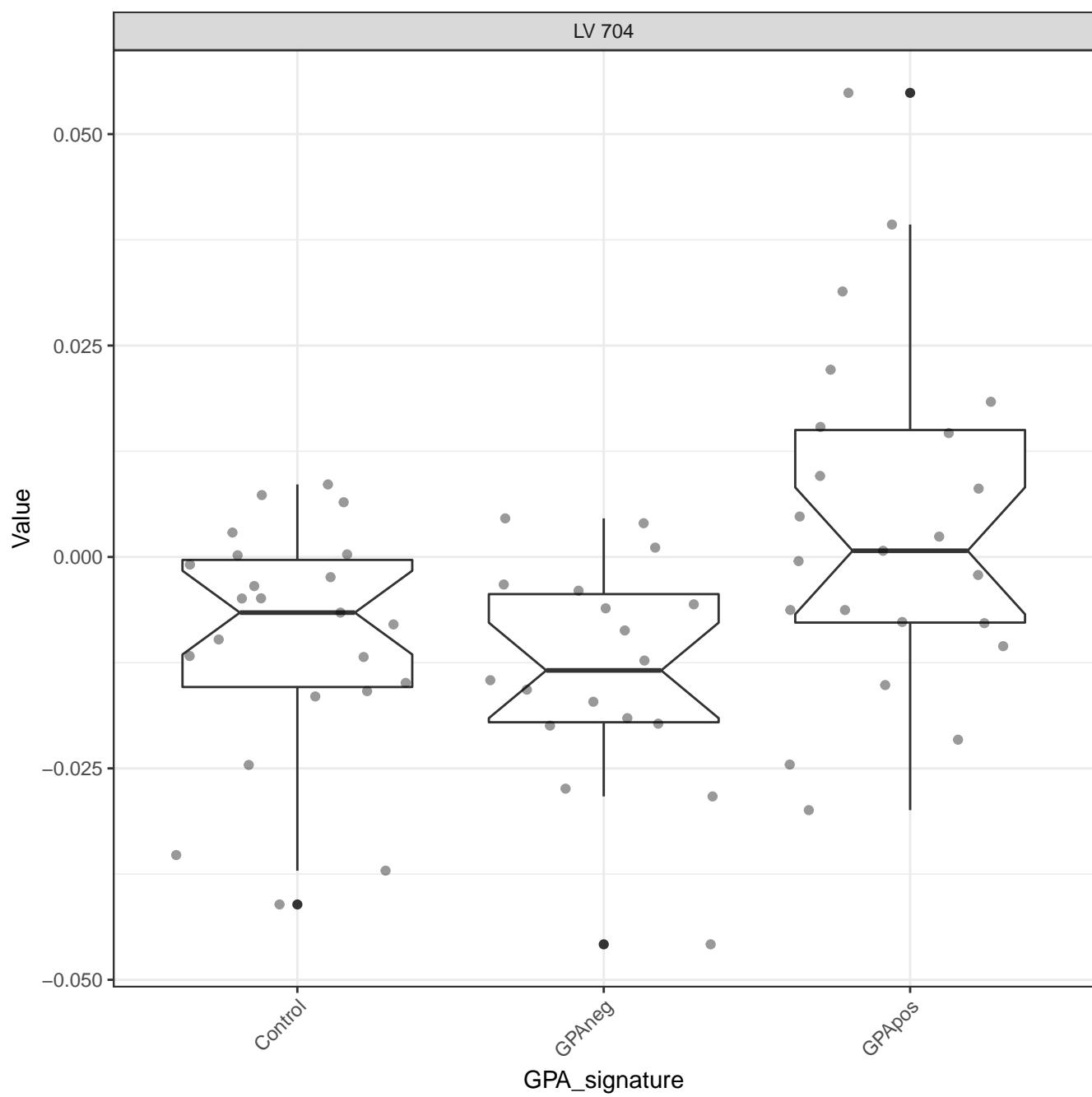
## LV 702



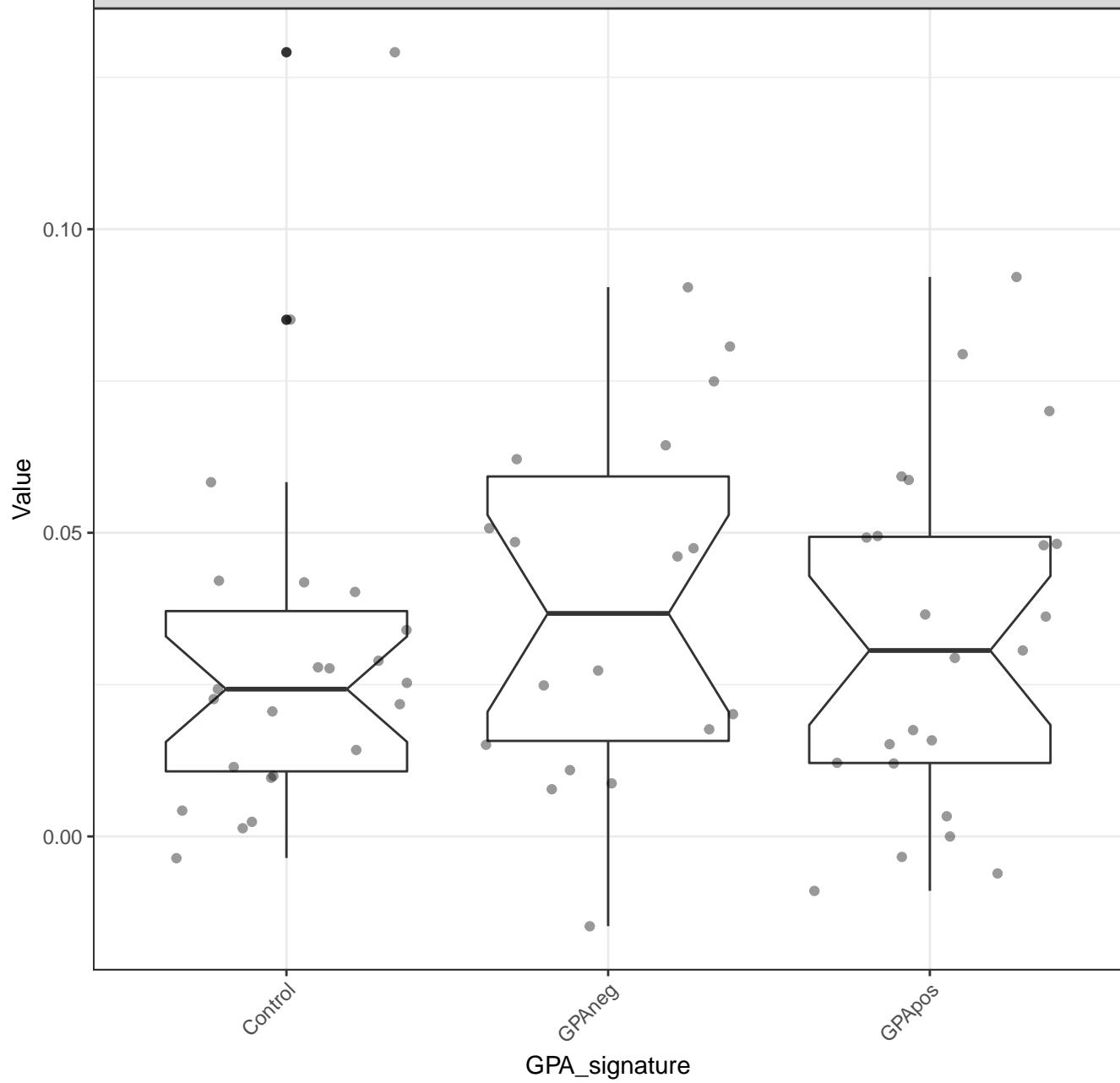
LV 703



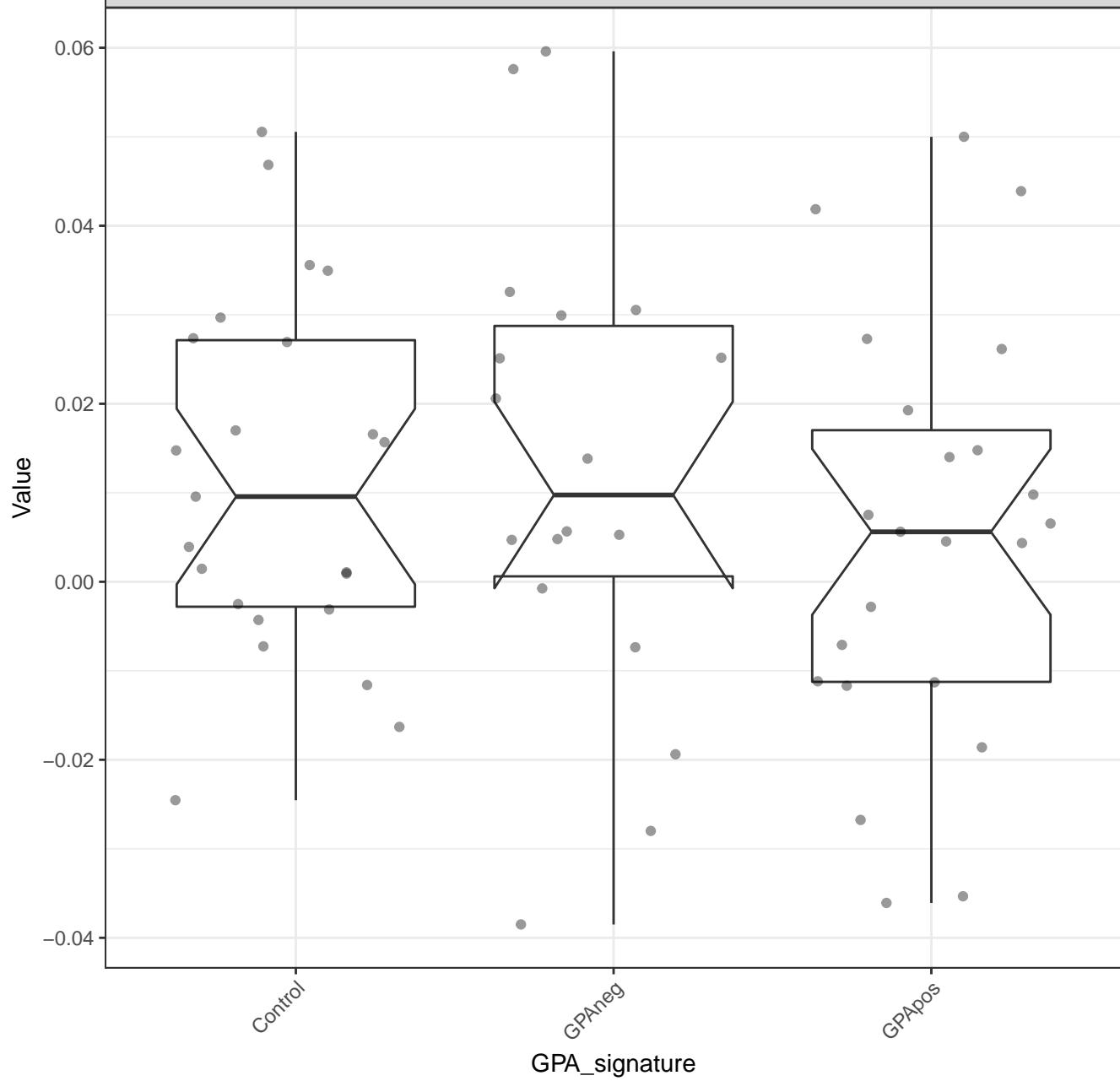
## LV 704



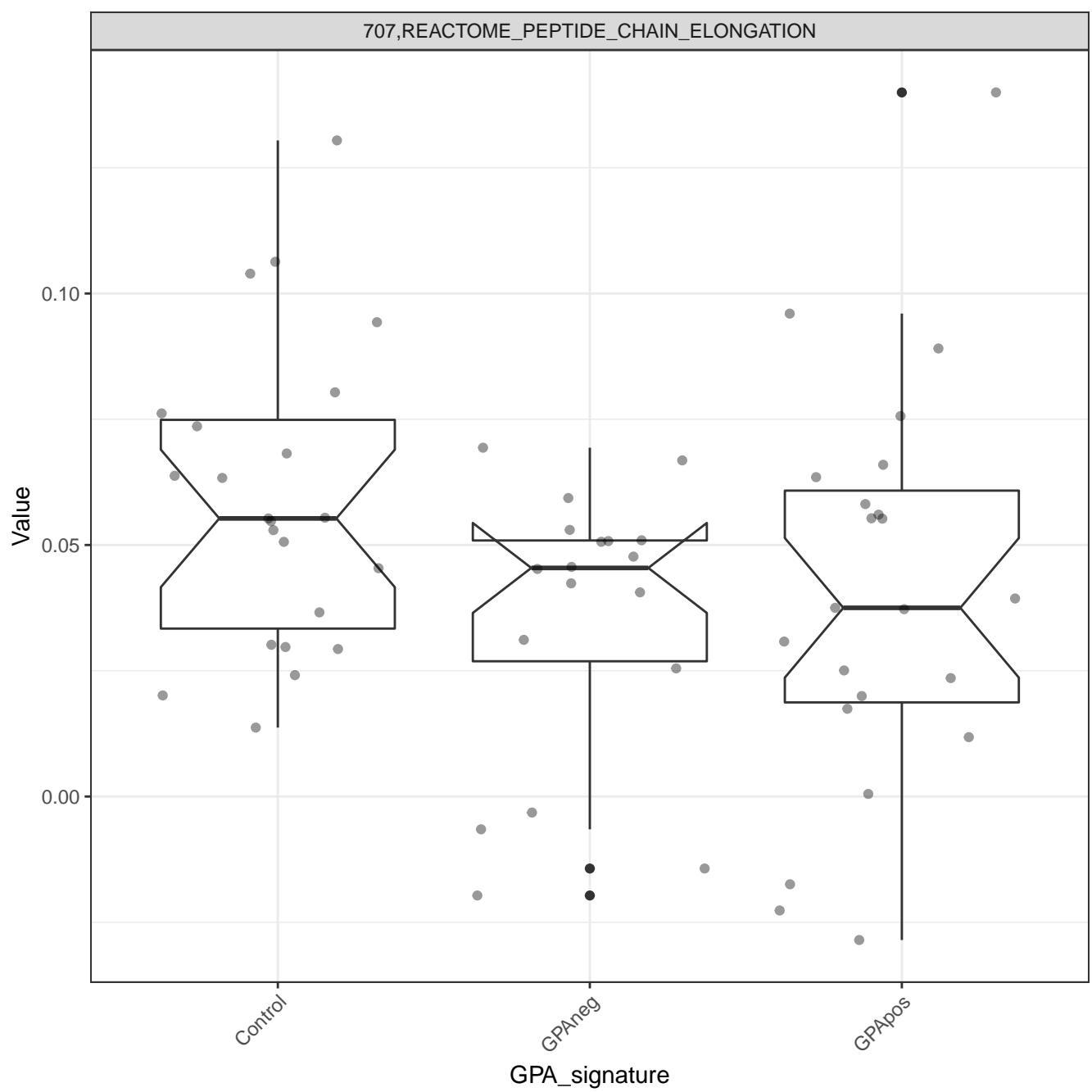
705,SVM NK cells activated



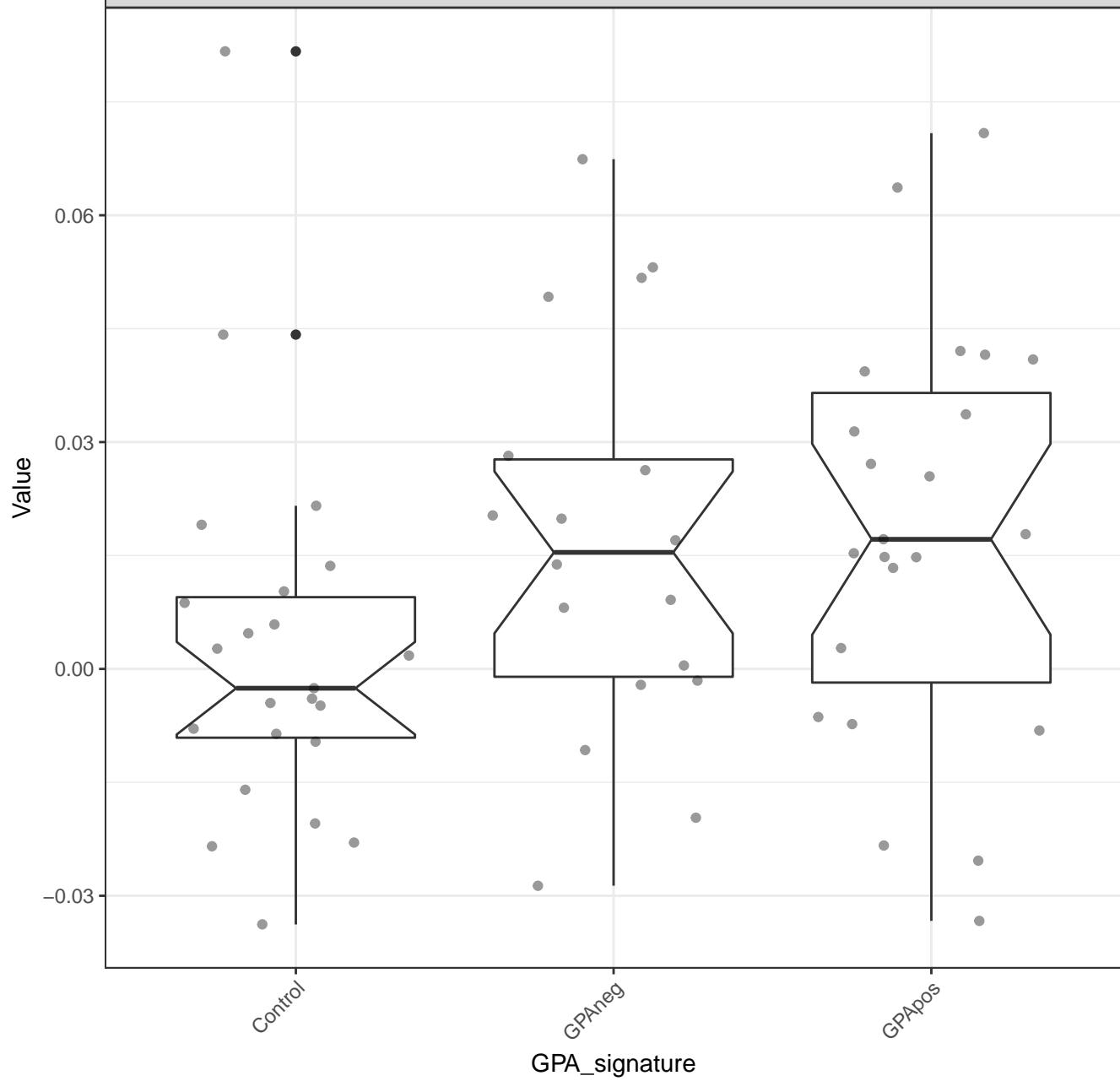
LV 706



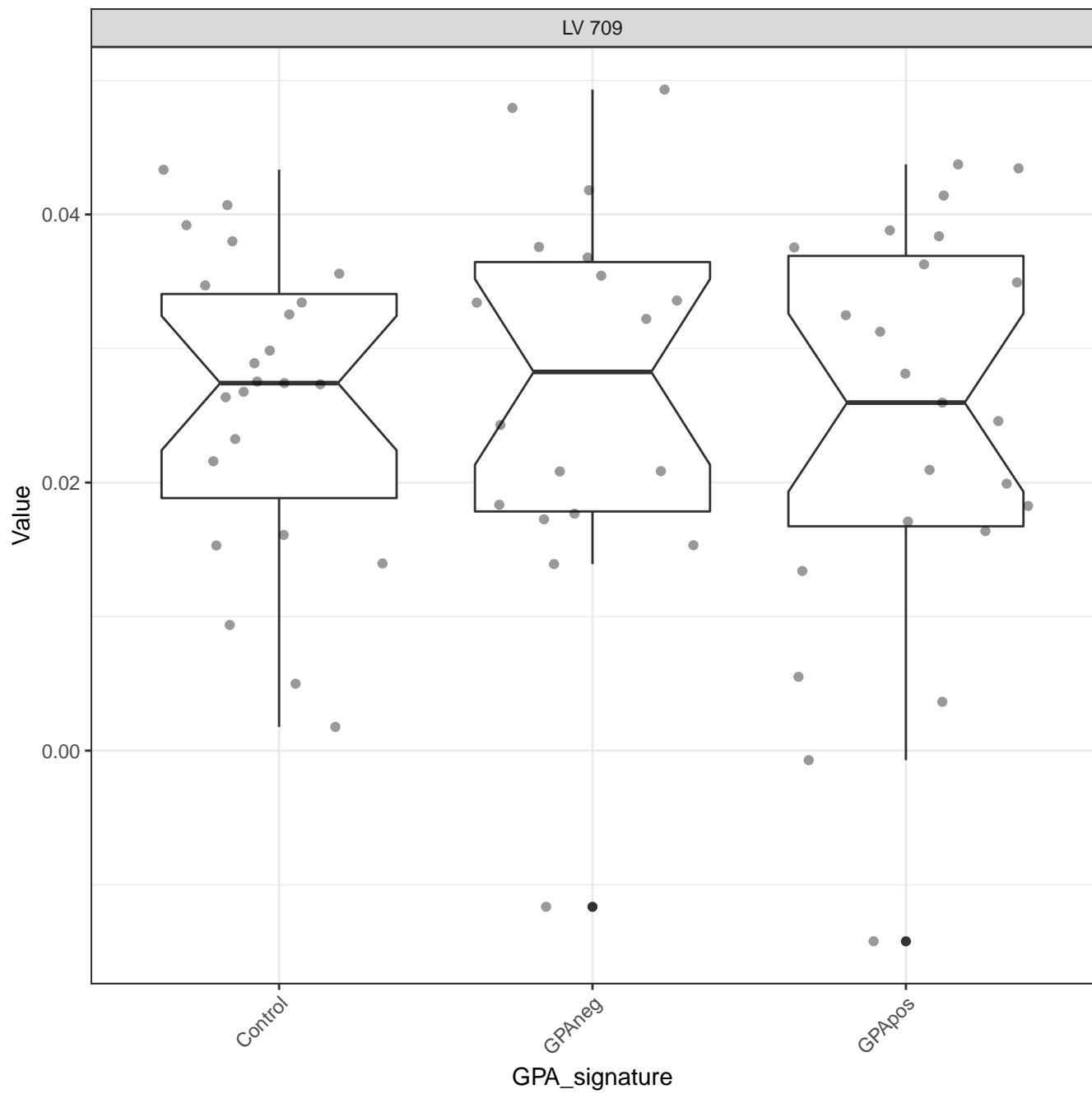
## 707,REACTOME\_PEPTIDE\_CHAIN\_ELONGATION



LV 708



## LV 709



Value

0.05

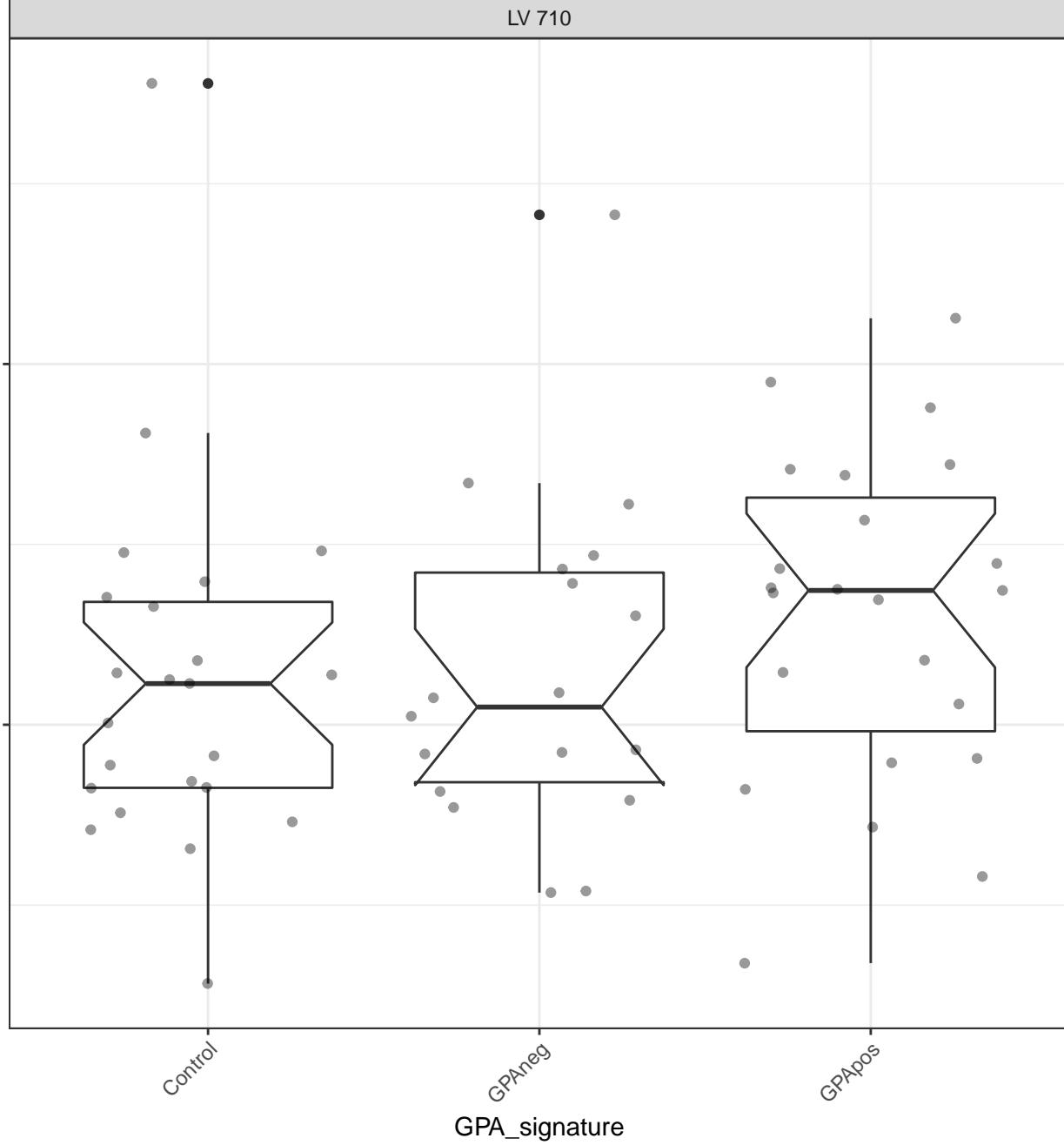
0.00

Control

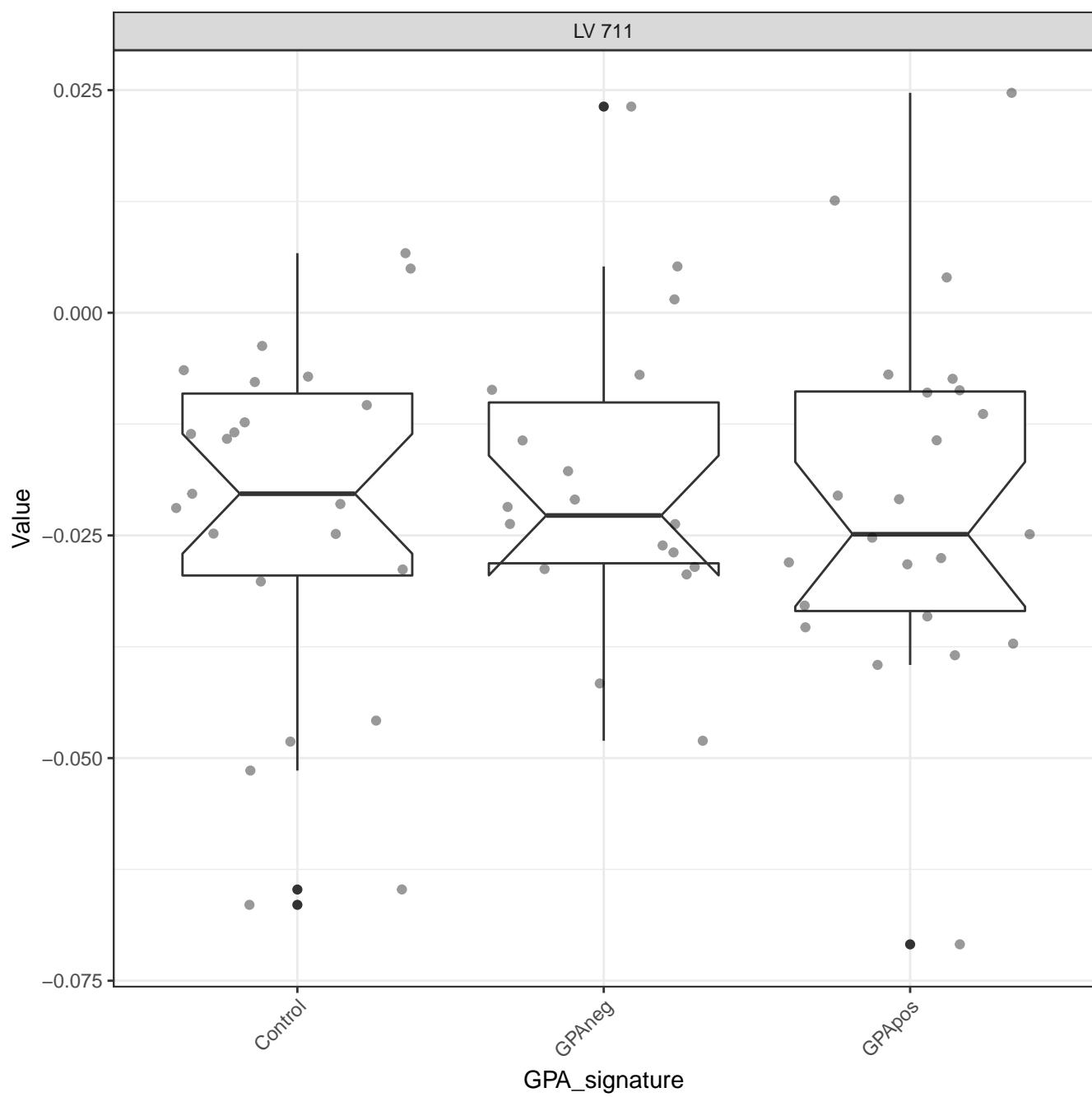
GPA\_signature

GPAneg

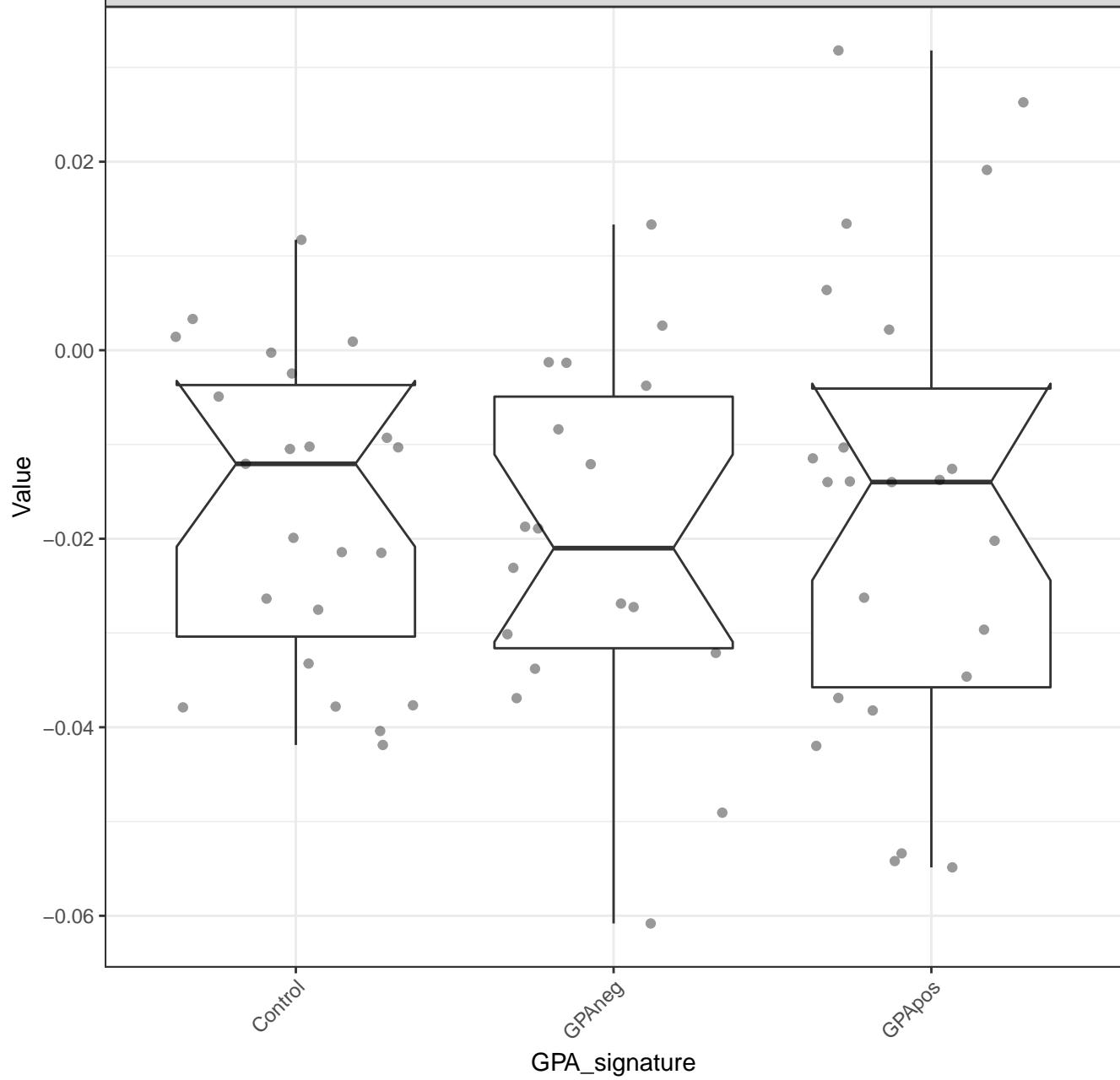
GPAPos



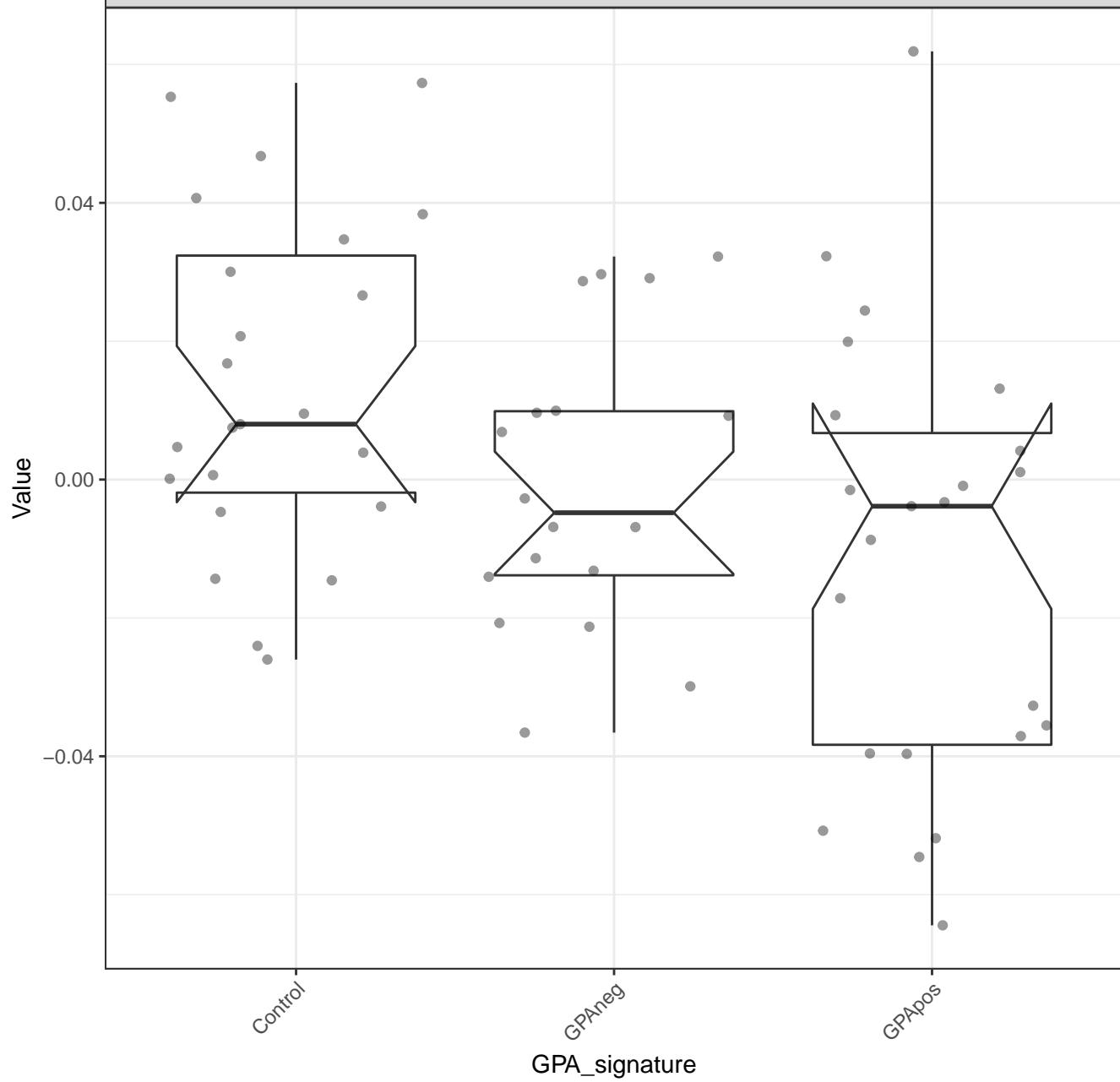
## LV 711



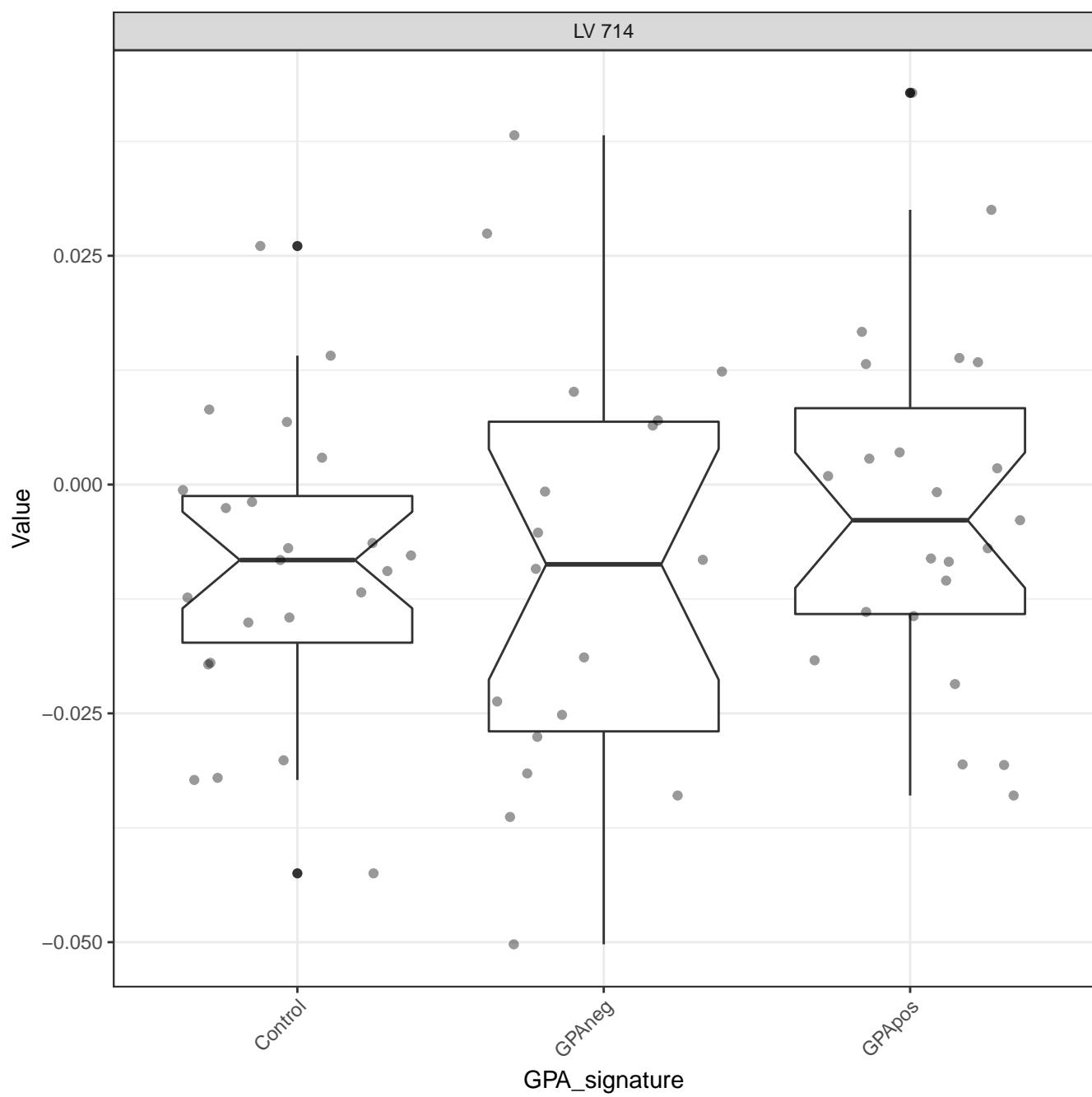
LV 712



LV 713



## LV 714



LV 715

Value

0.04

0.00

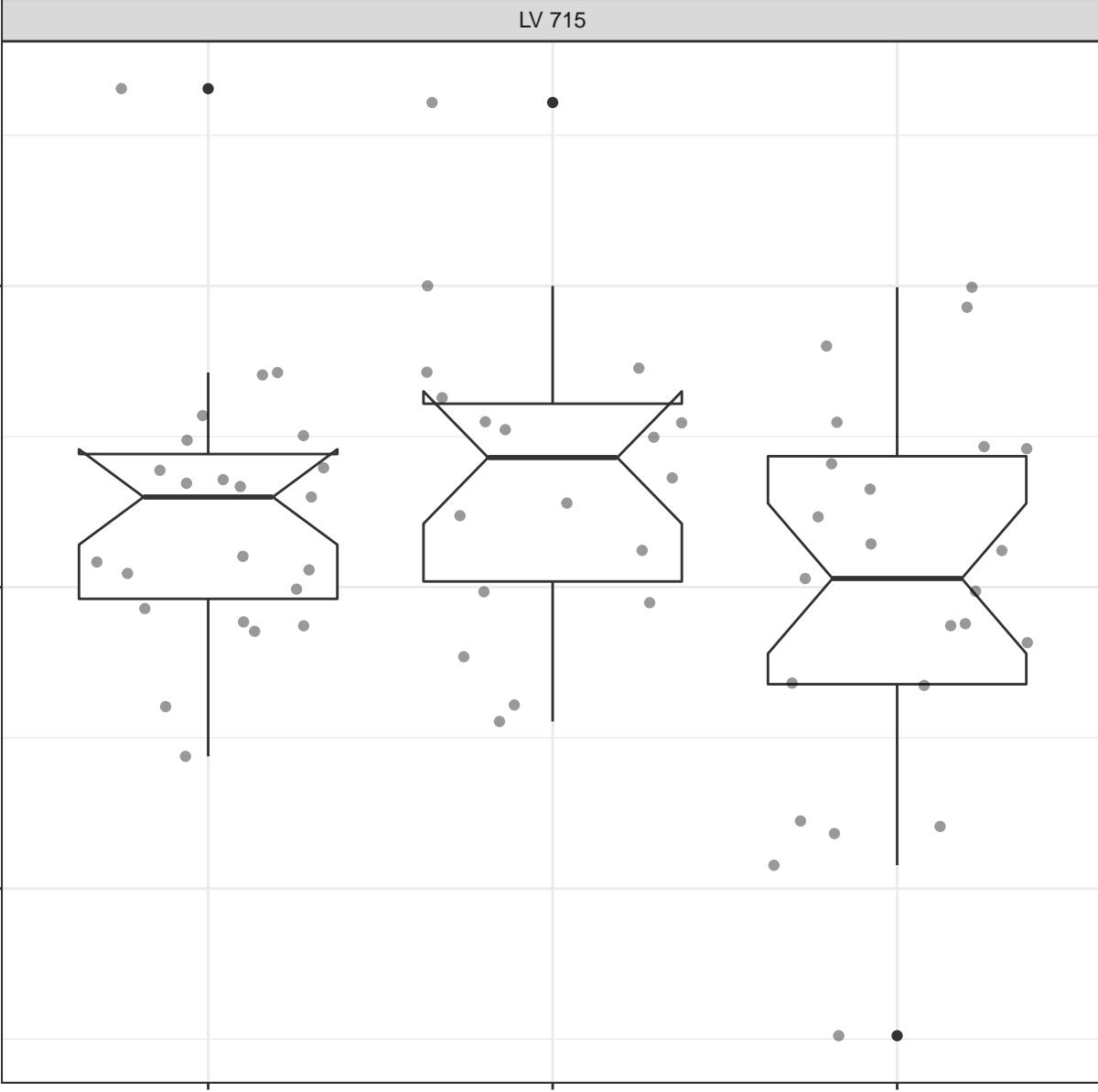
-0.04

Control

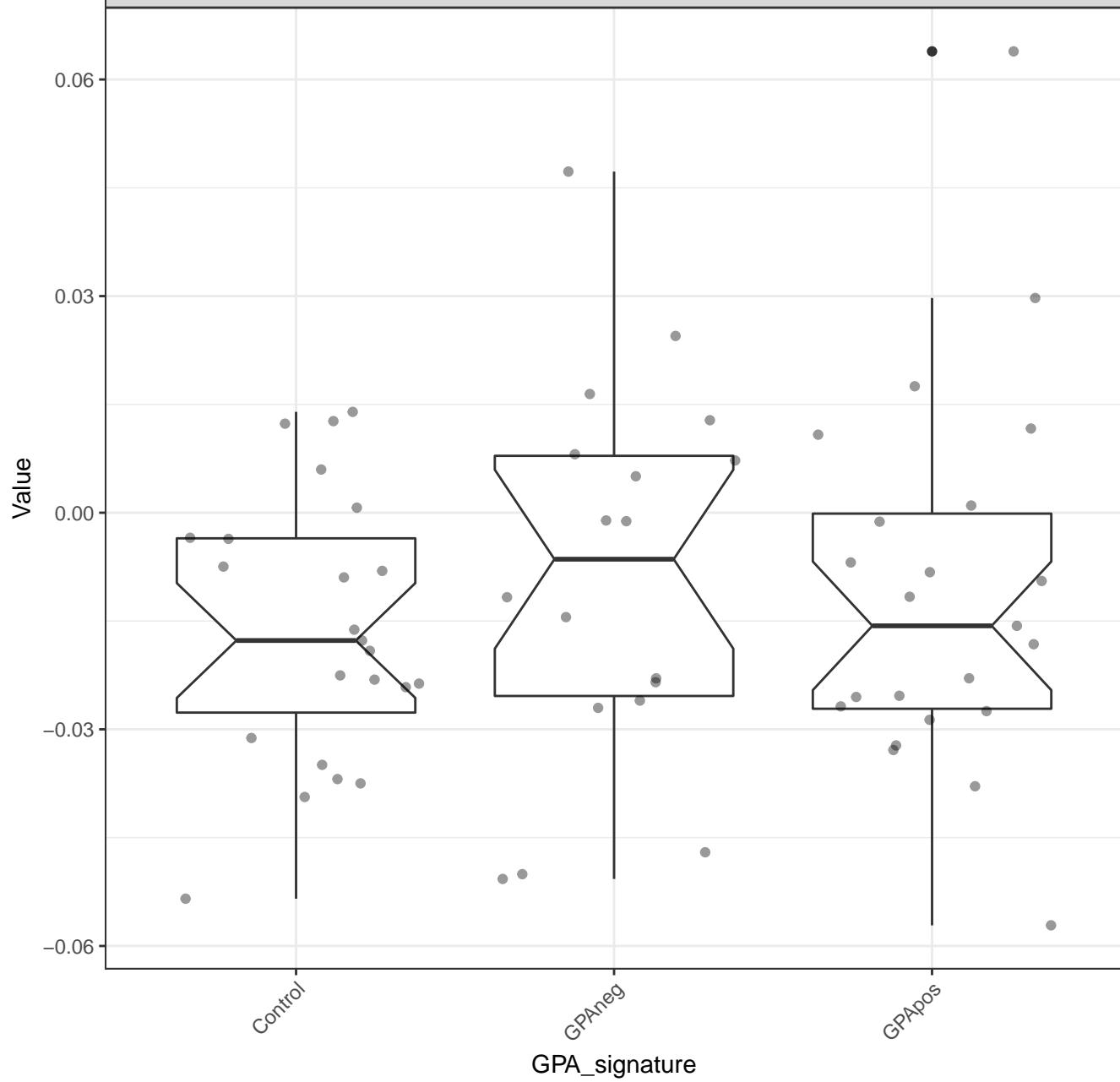
GPA\_signature

GPAneg

GPApos



LV 716



## LV 717

Value

0.04

0.02

0.01

-0.02

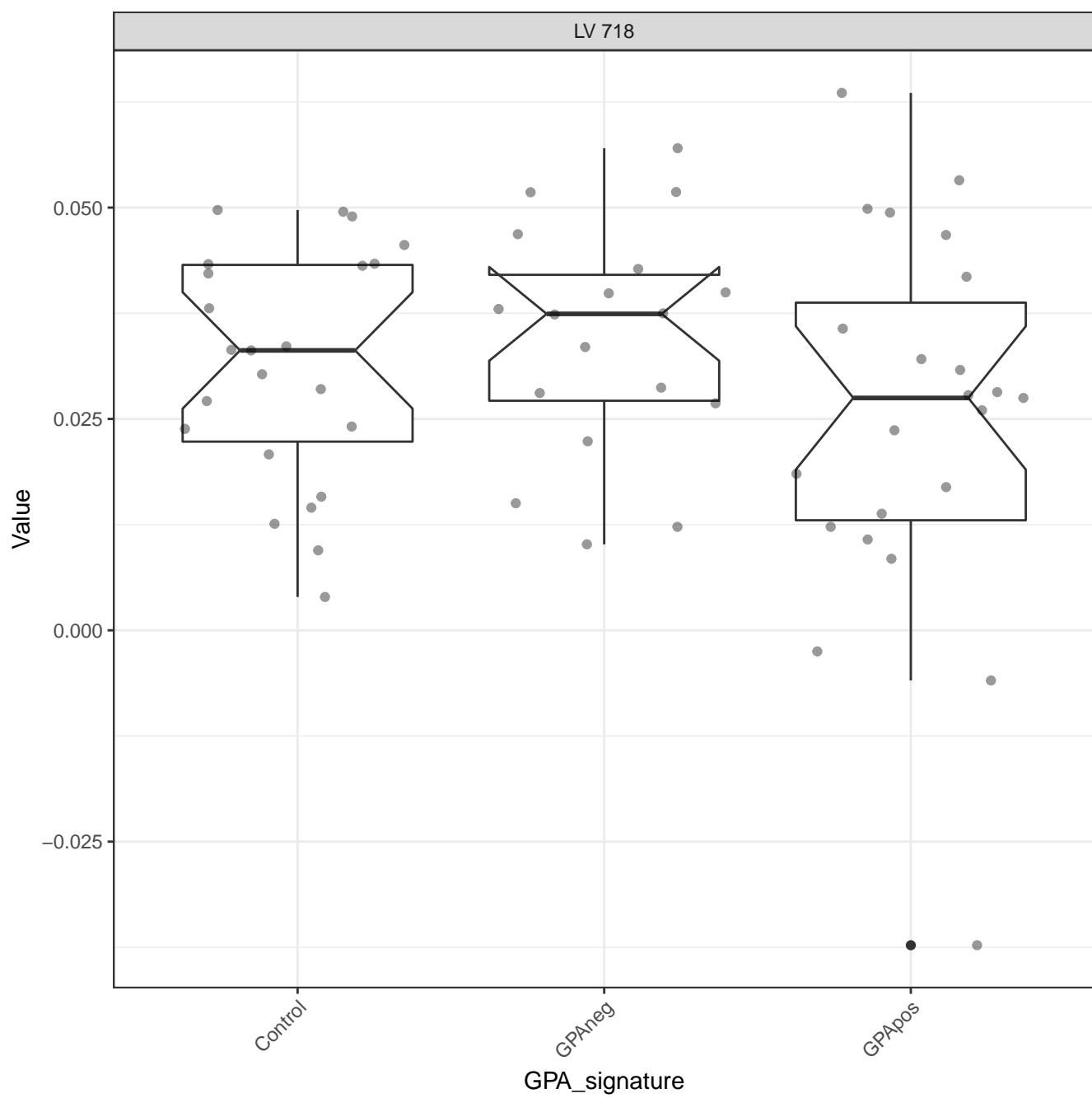
Control

GPAneg

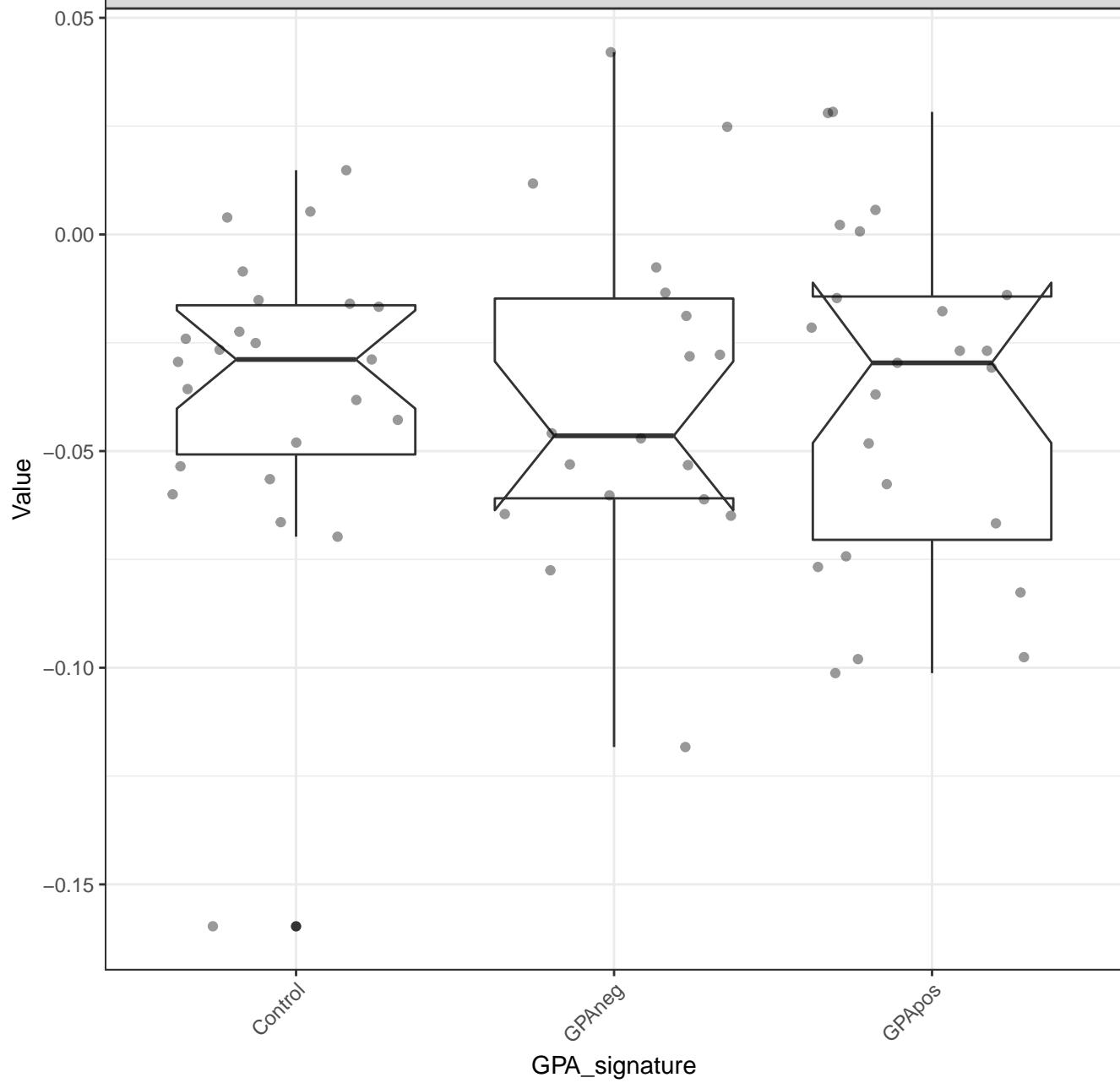
GPAPos

GPA\_signature

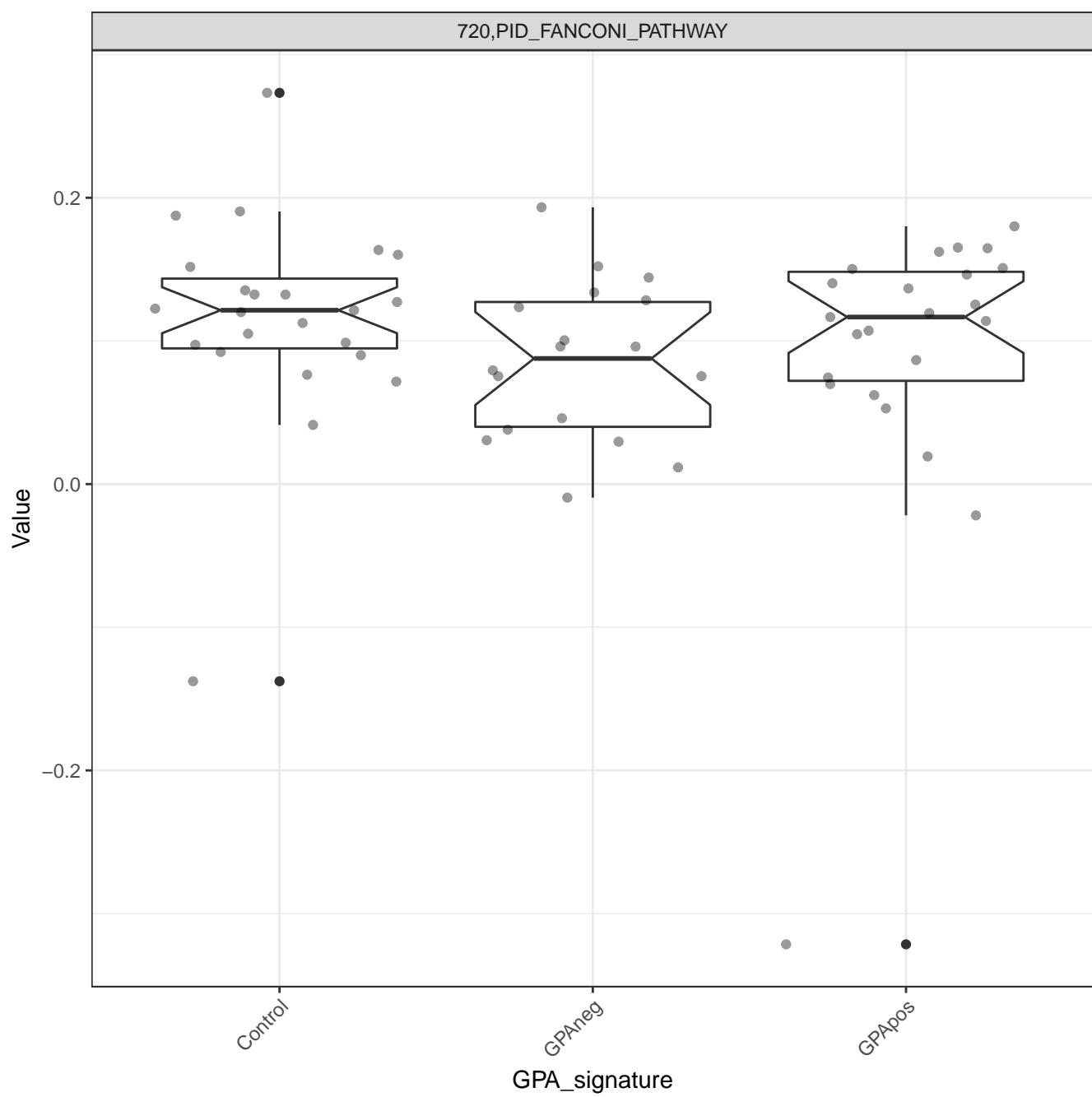
## LV 718



## 719,DMAP\_CMP



## 720,PID\_FANCONI\_PATHWAY



Value

0.10

0.05

0.00

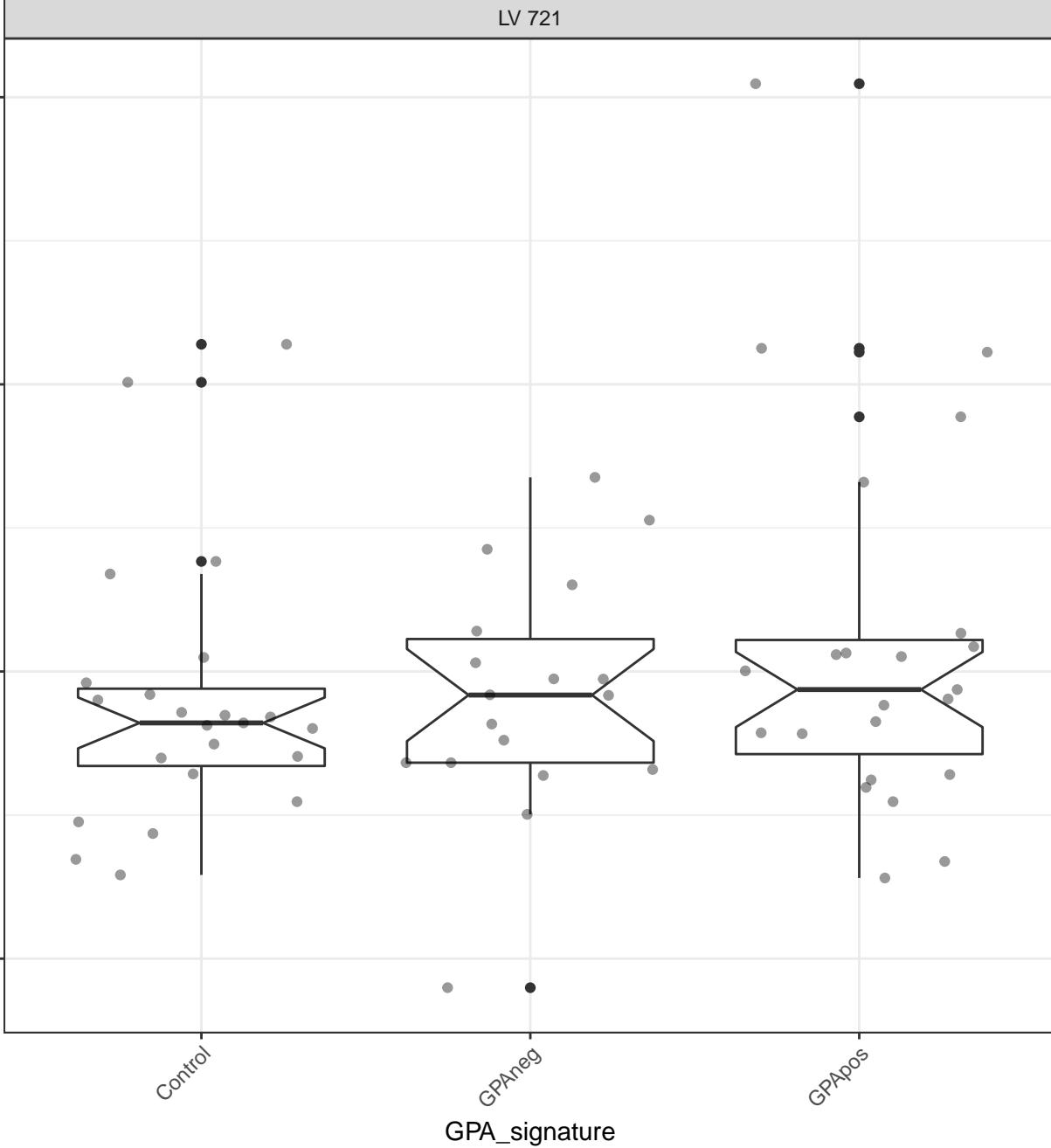
-0.05

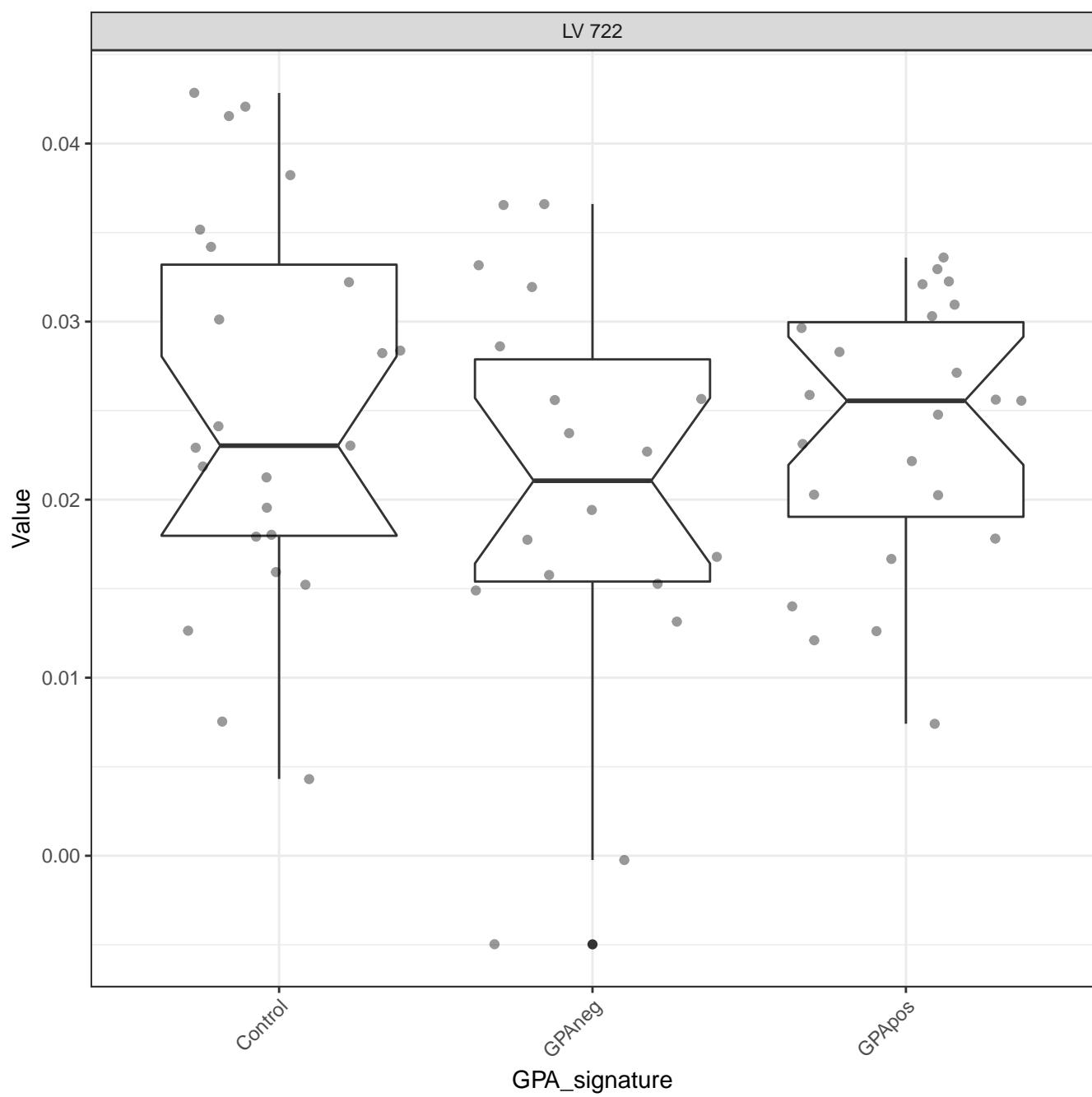
Control

GPAneg

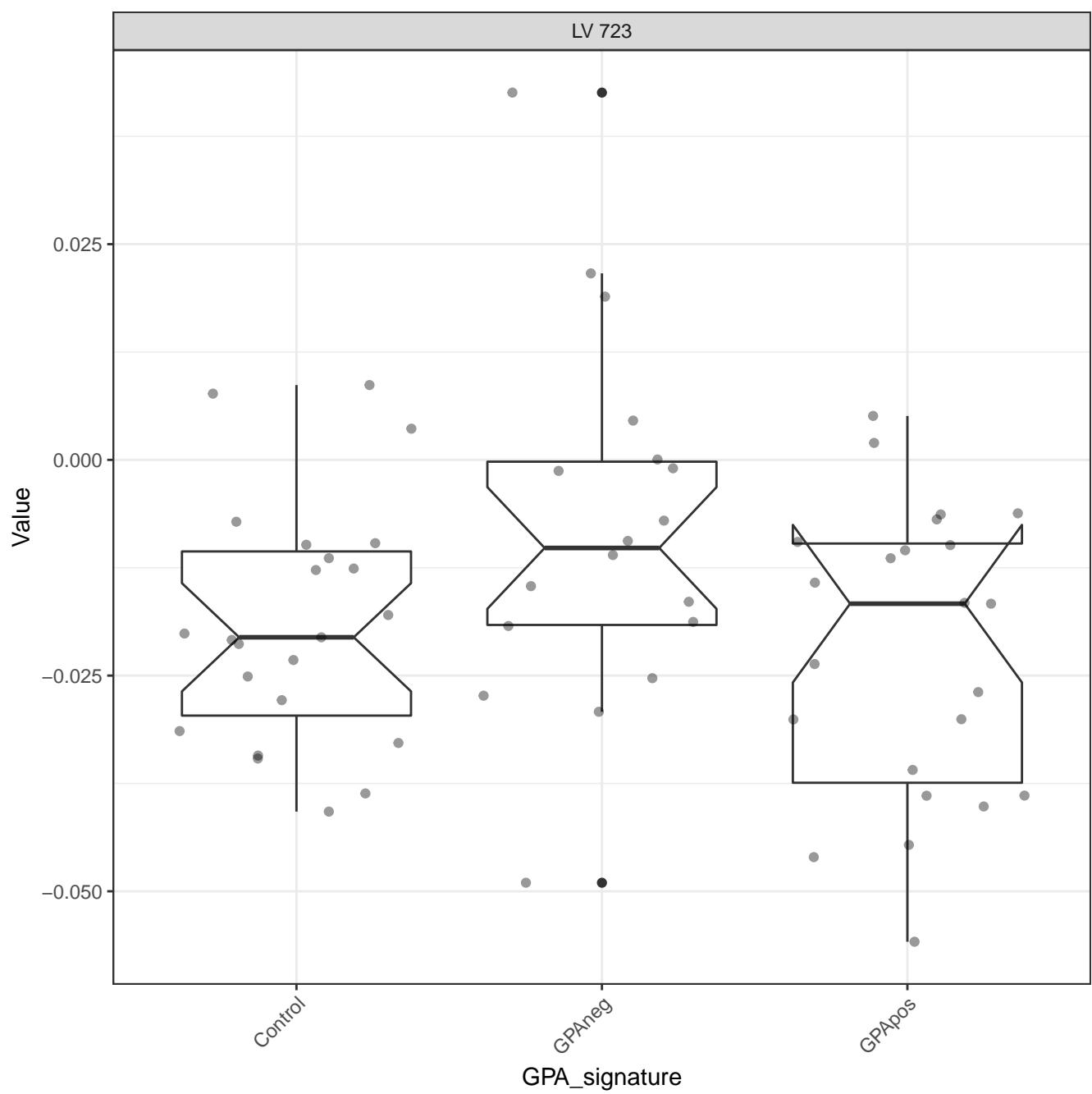
GPAPos

GPA\_signature

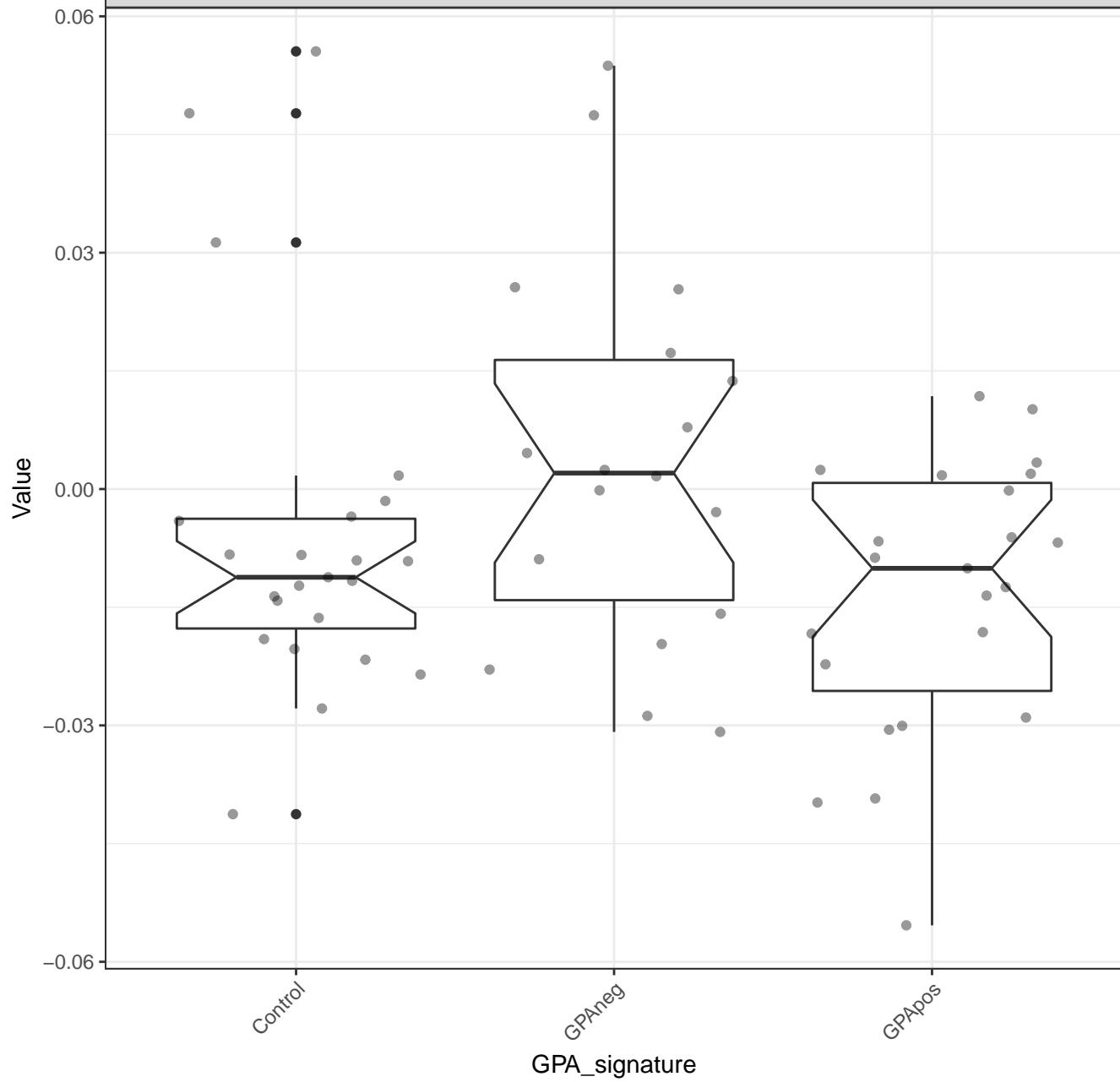


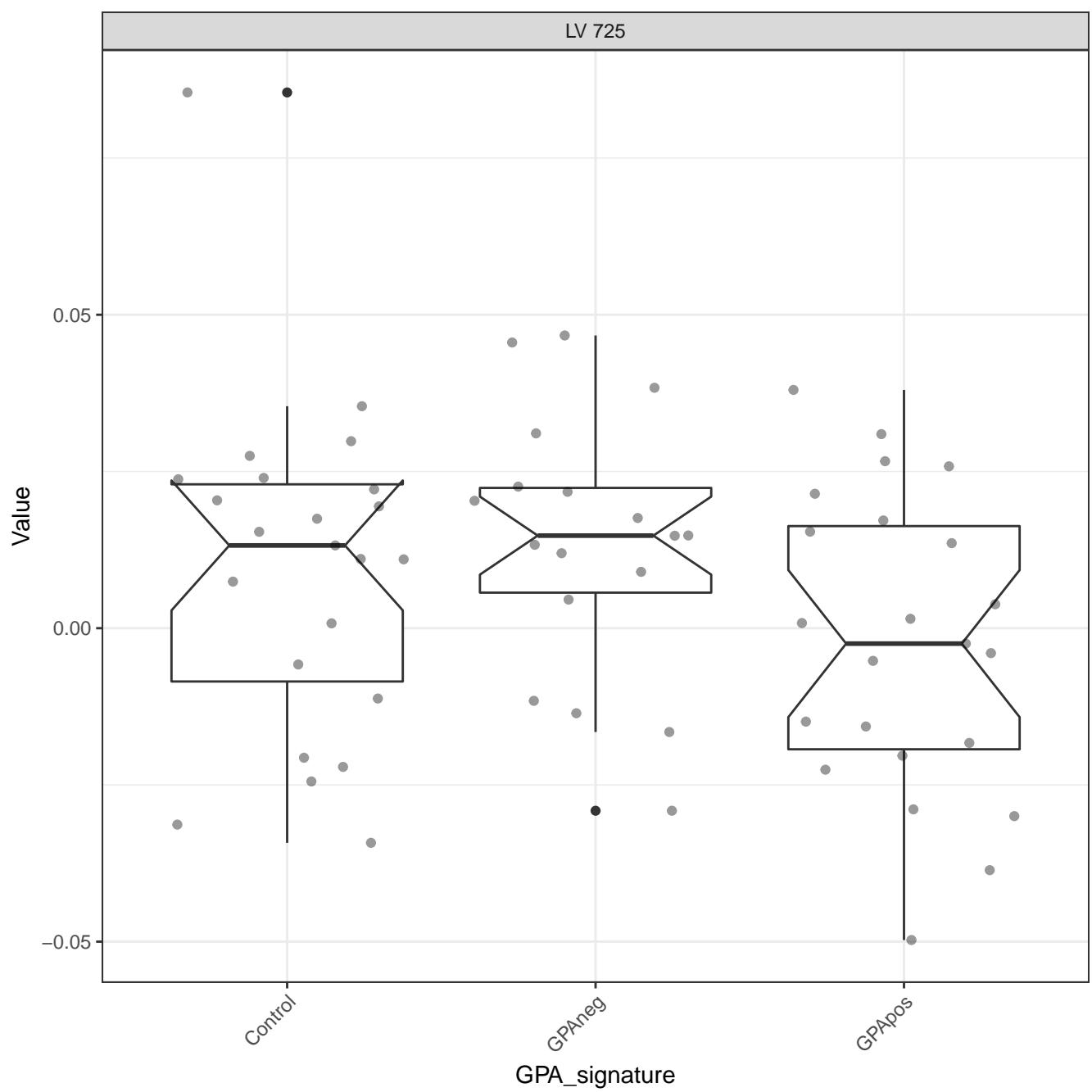


## LV 723

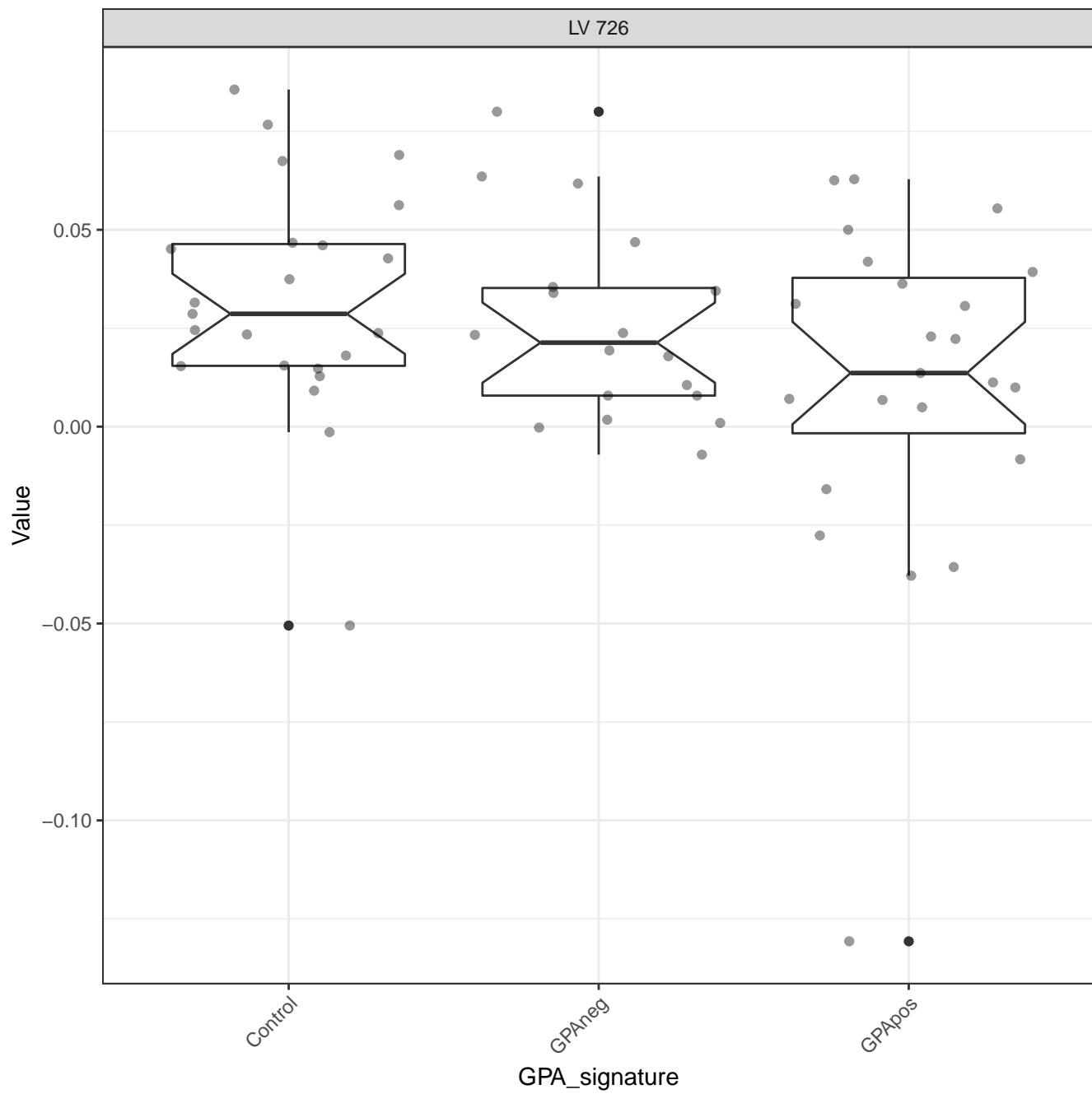


LV 724

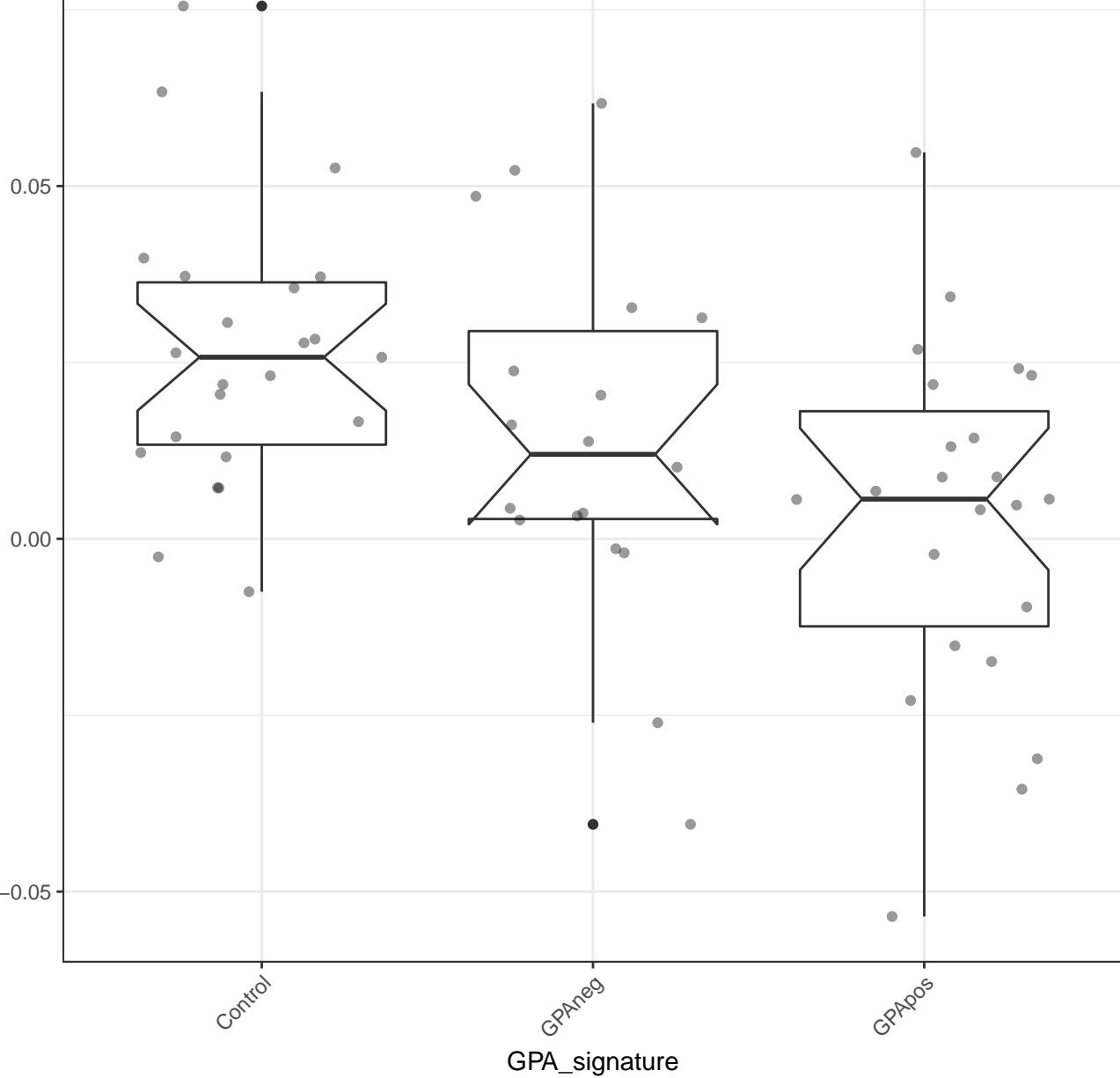




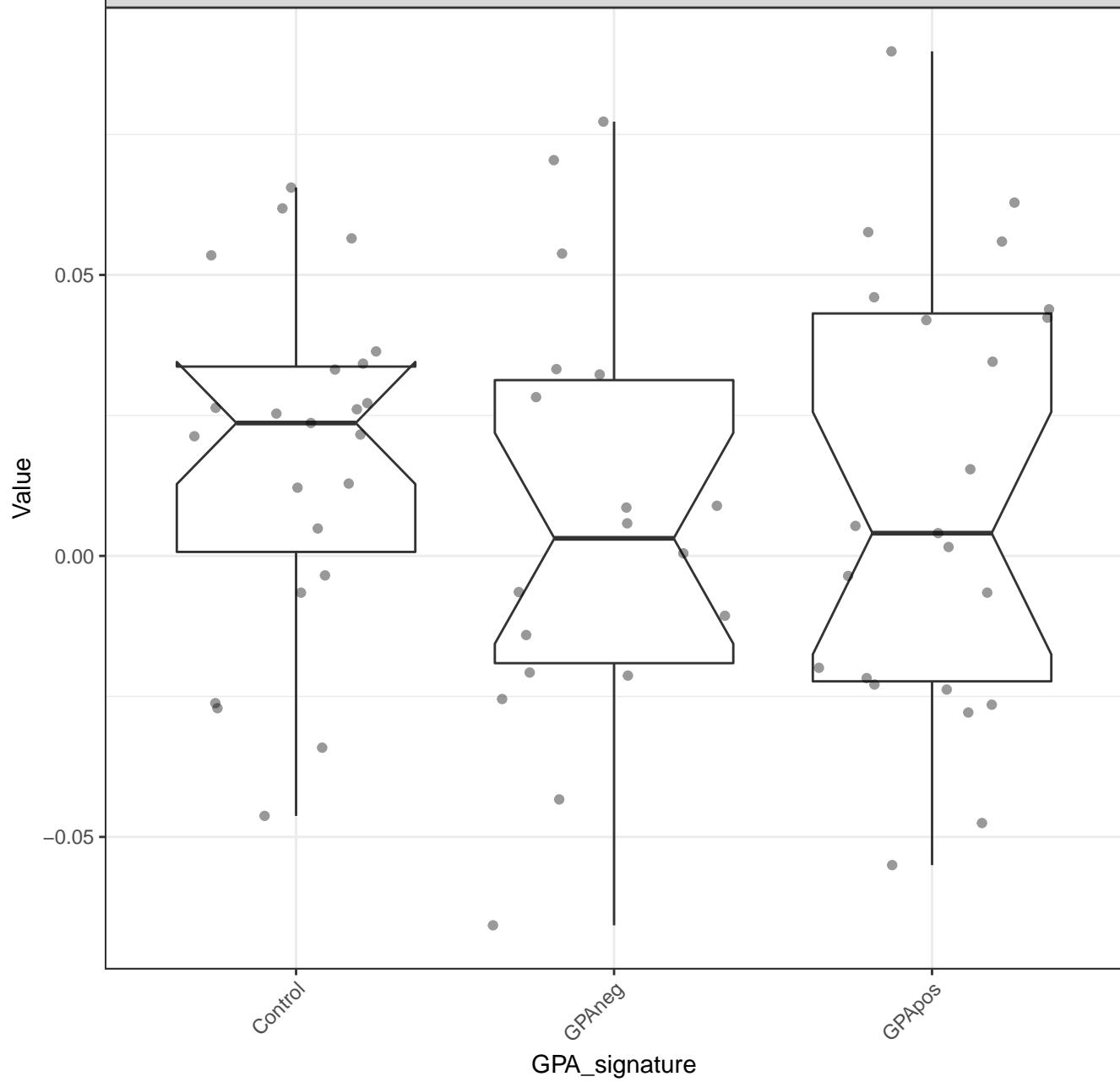
LV 726



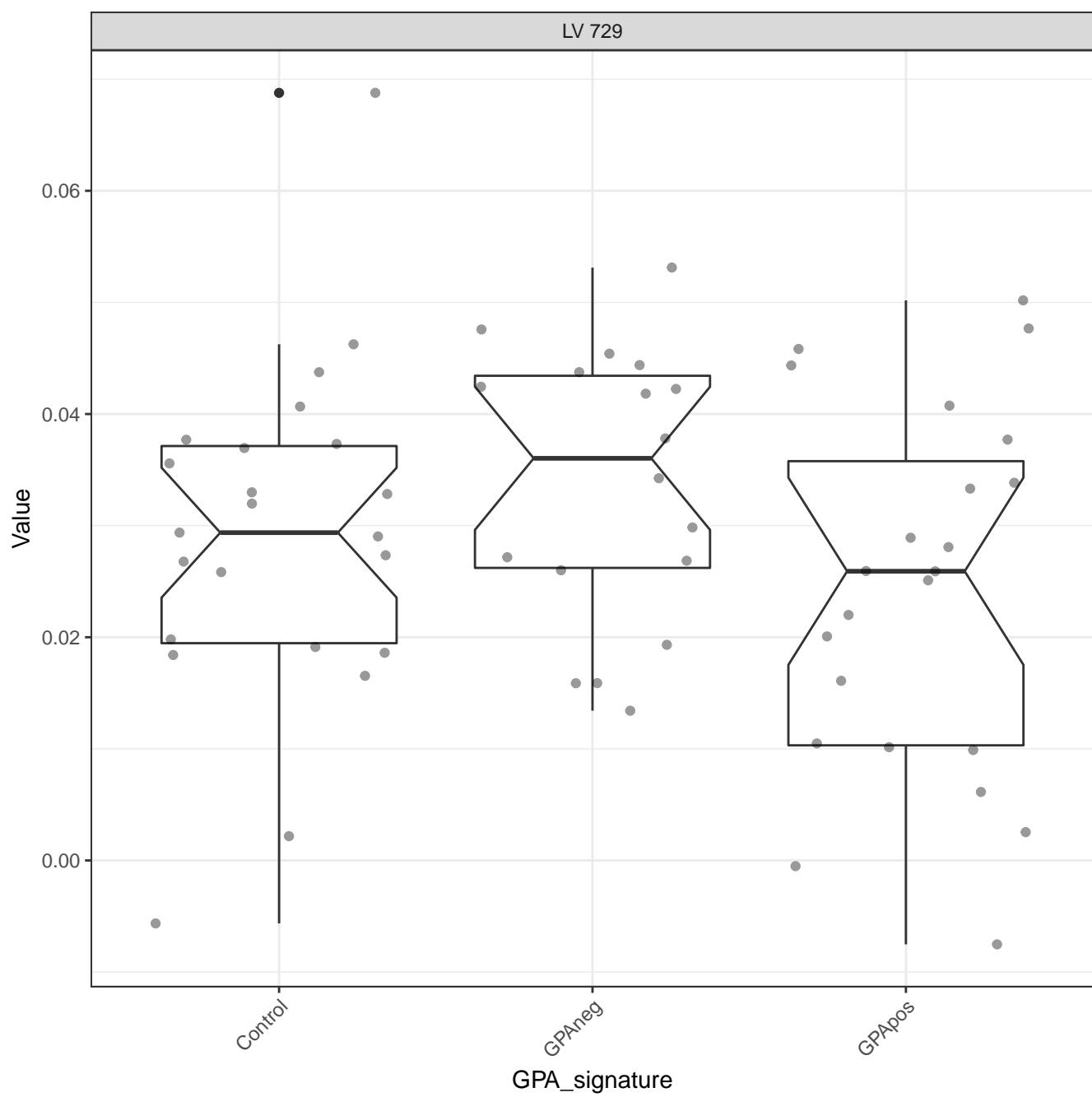
Value



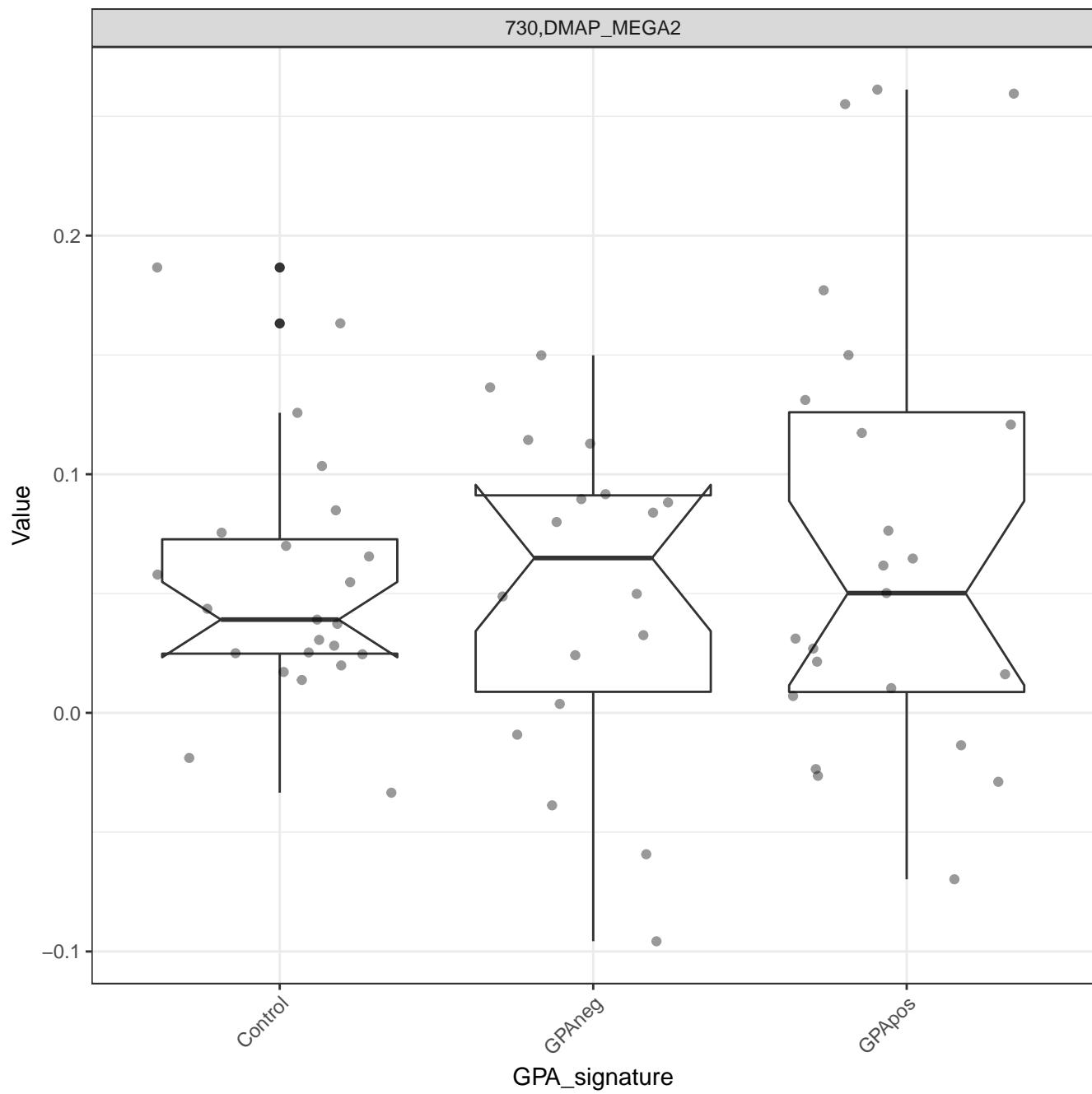
## 728,SVM Mast cells activated

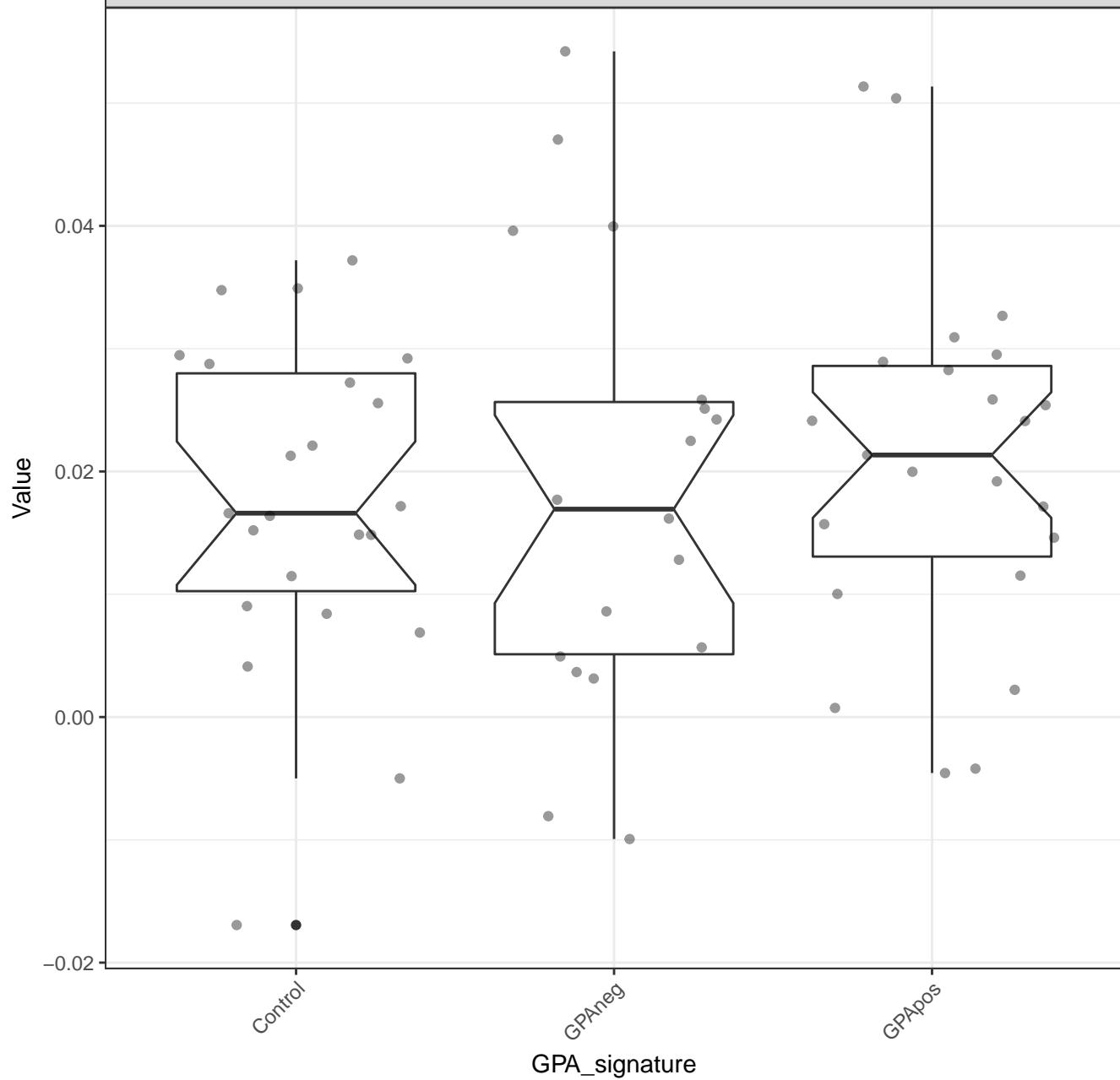


## LV 729

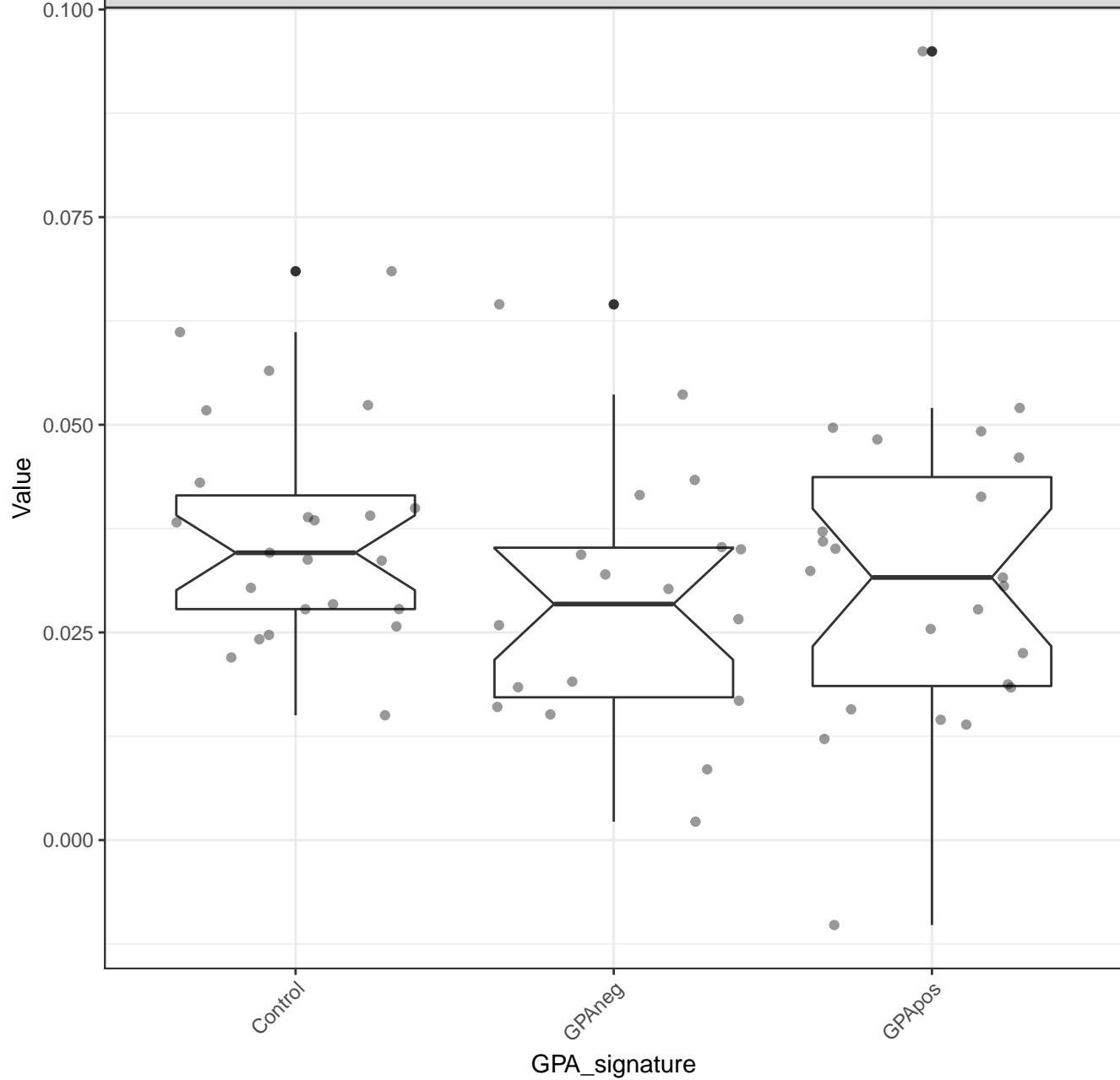


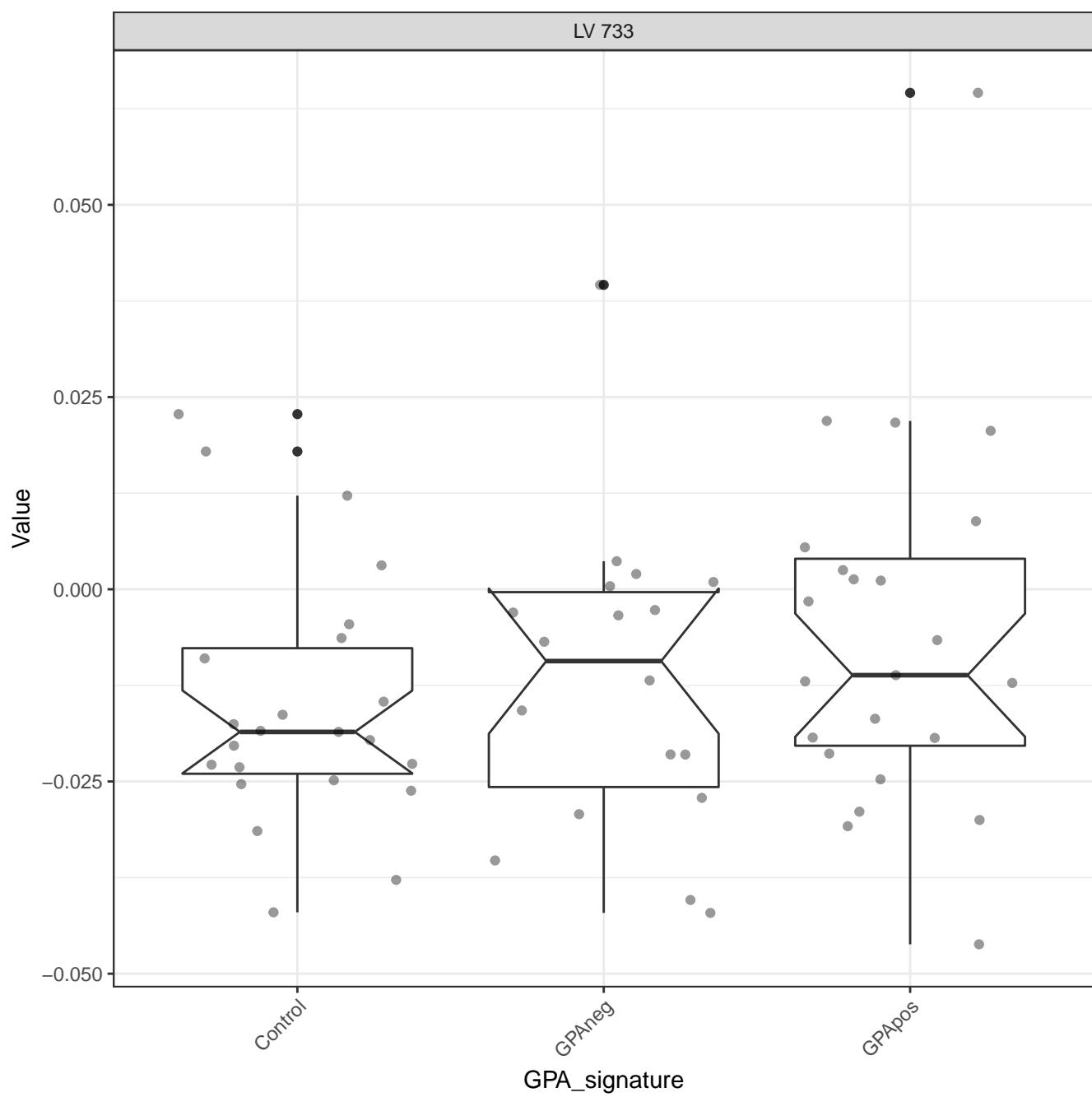
730,DMAP\_MEGA2

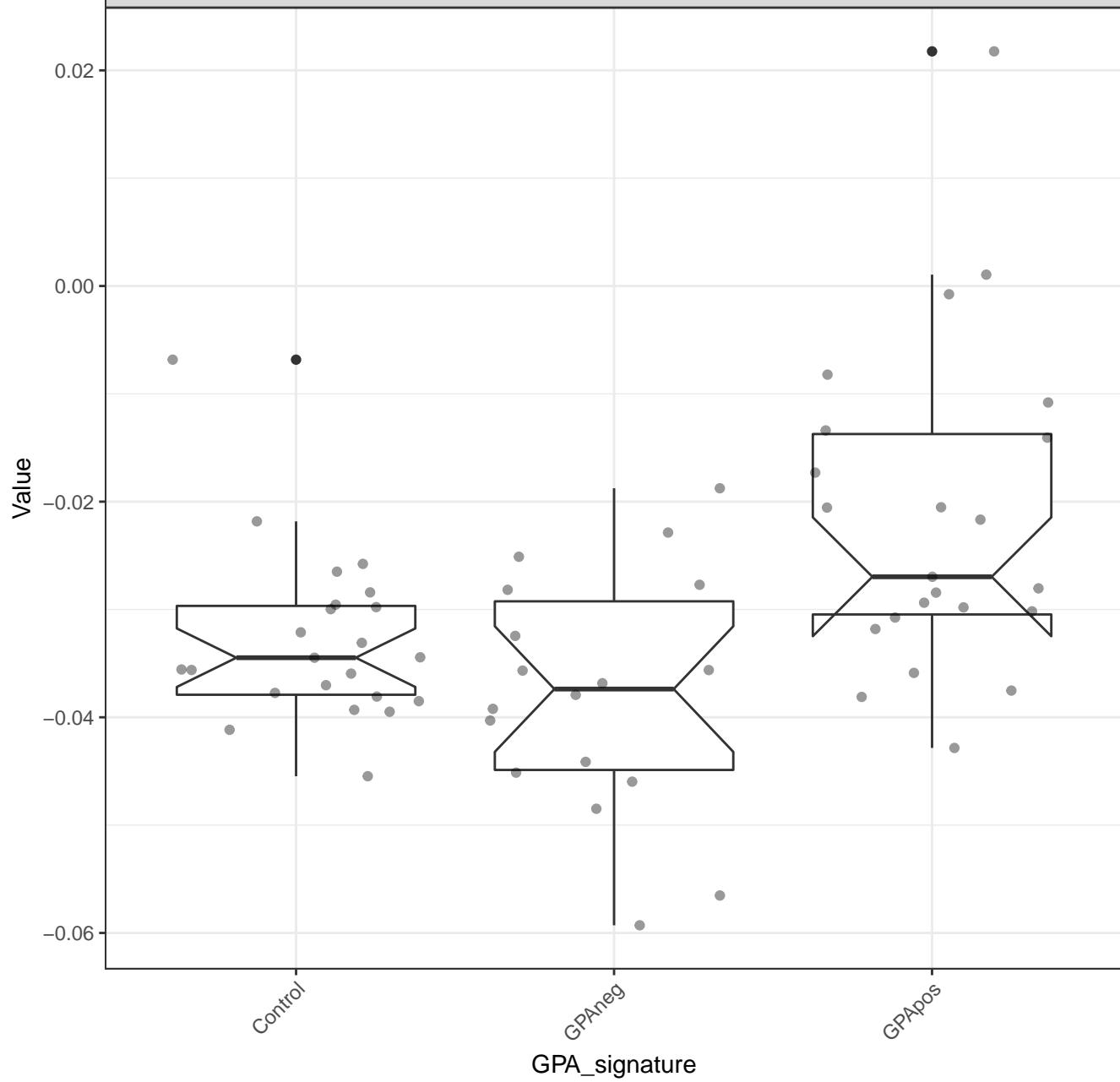




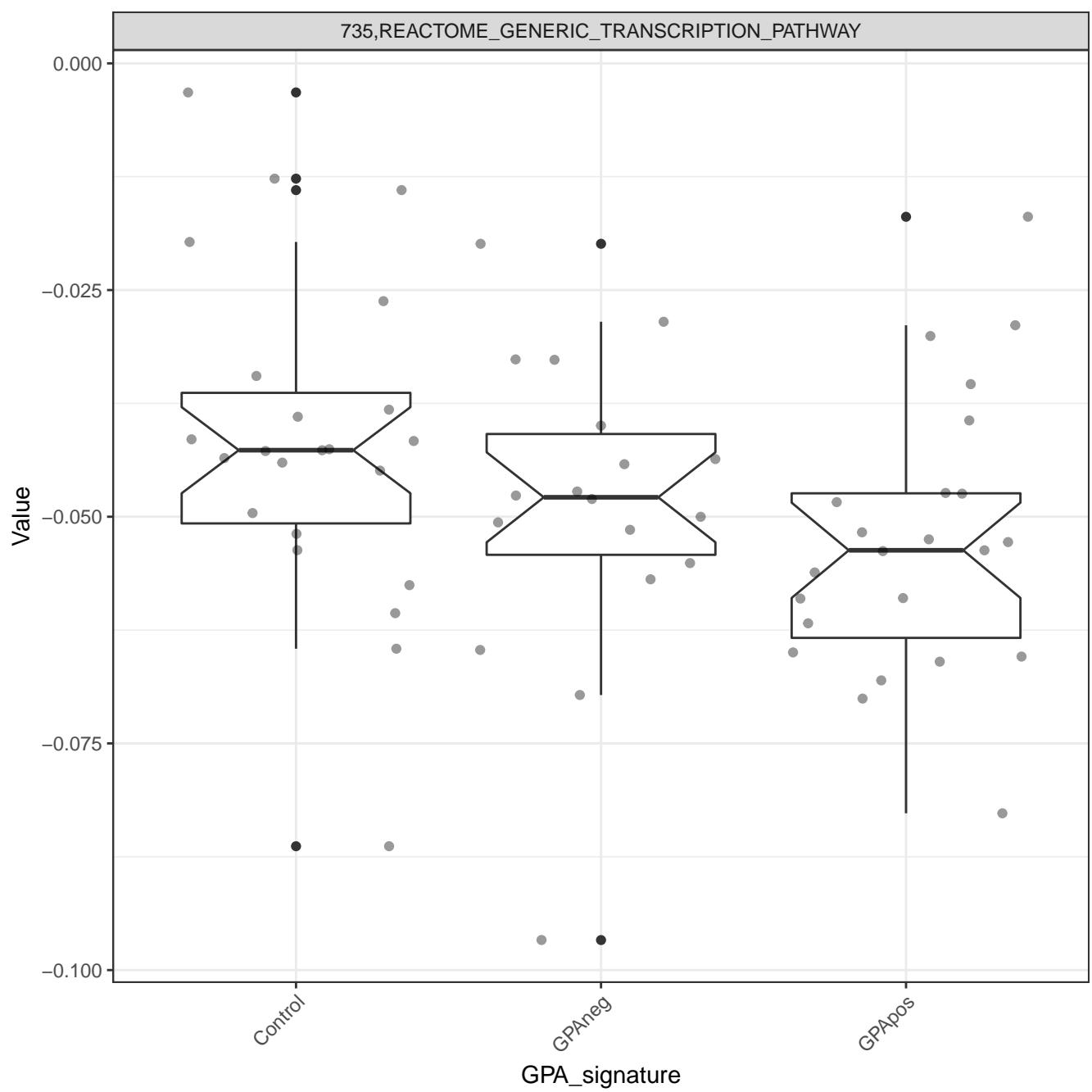
LV 732







# 735,REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY



LV 736

Value

0.02

0.00

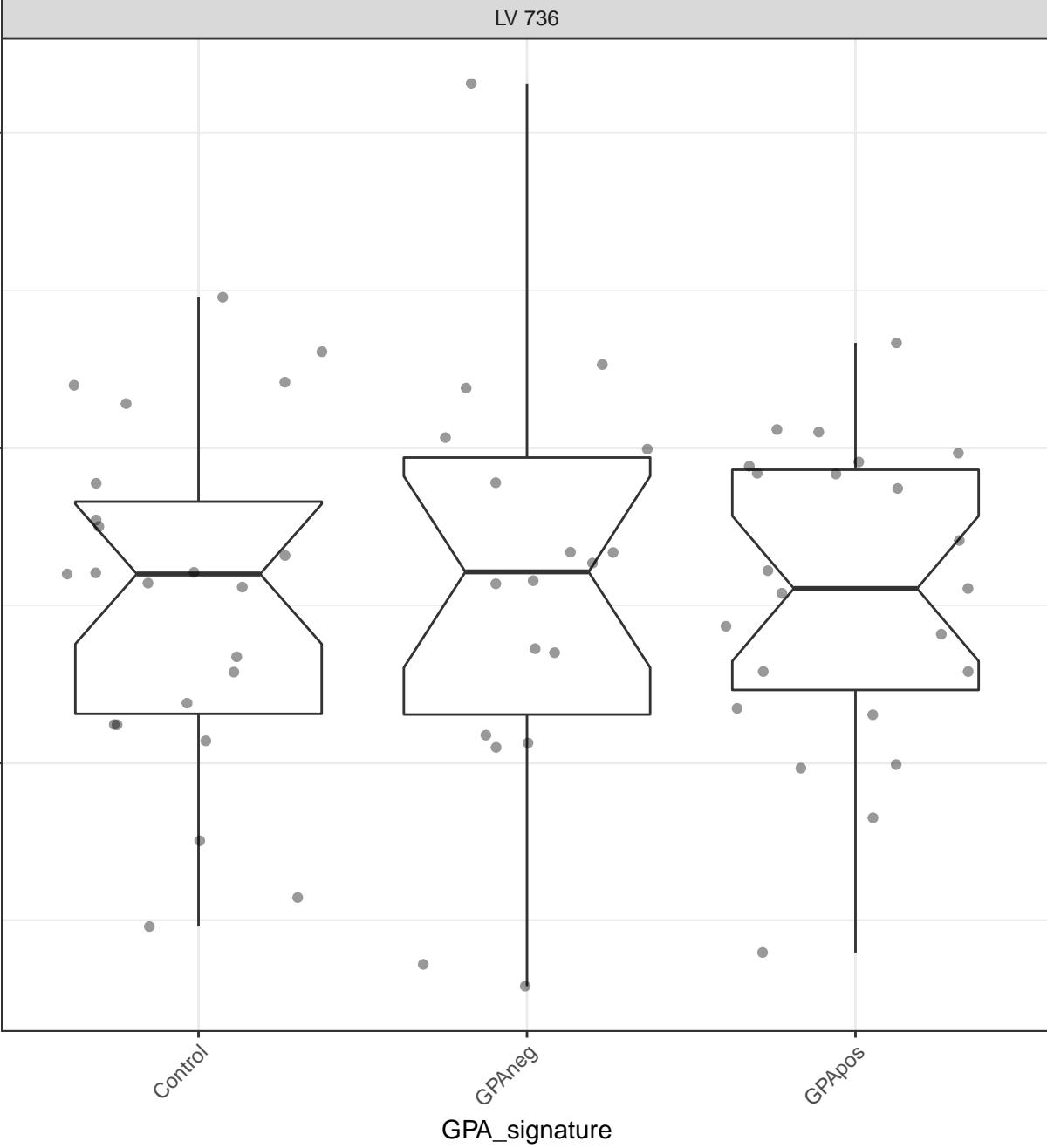
-0.02

Control

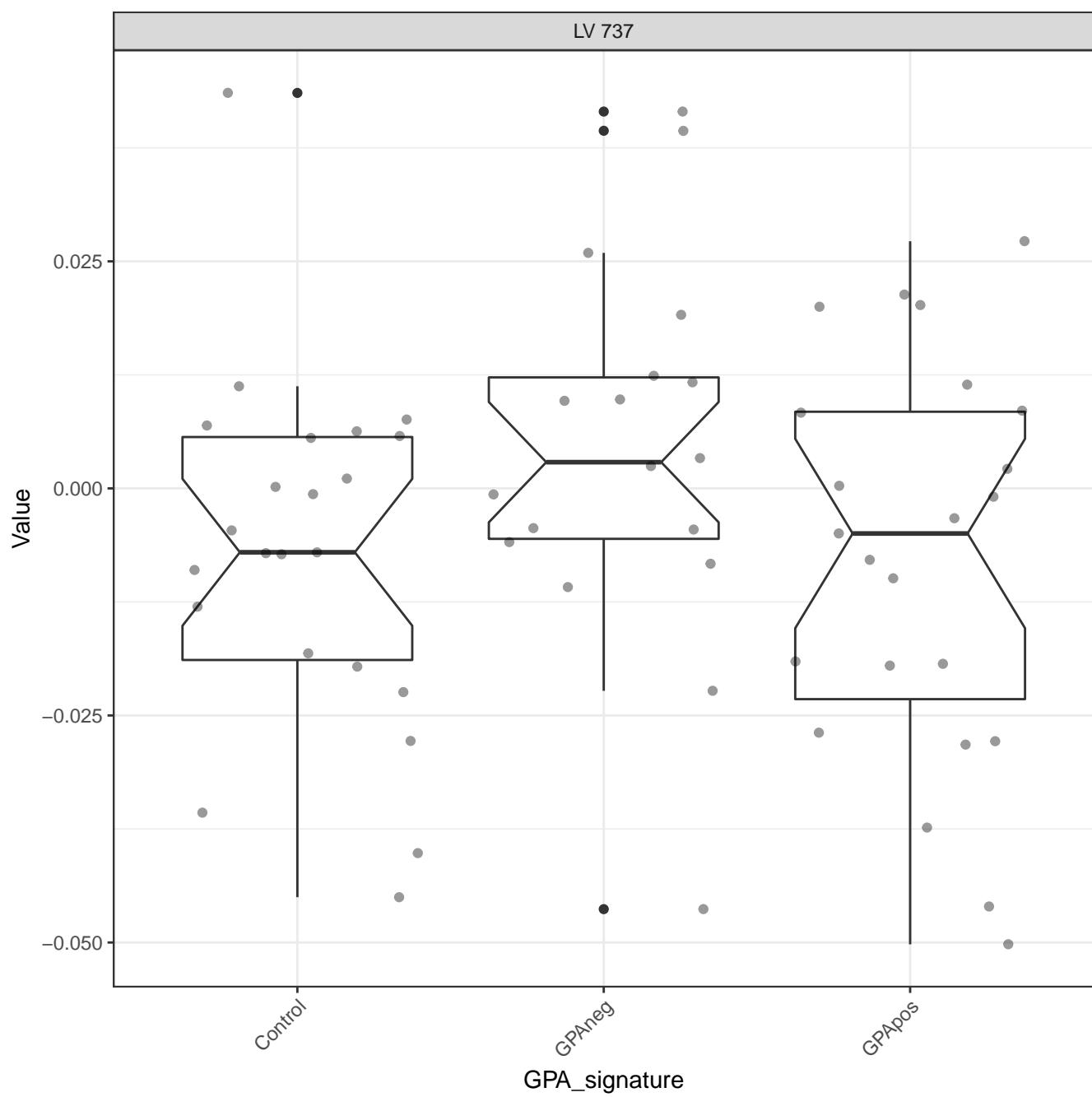
GPAneg

GPApos

GPA\_signature



## LV 737



Value

0.02

0.00

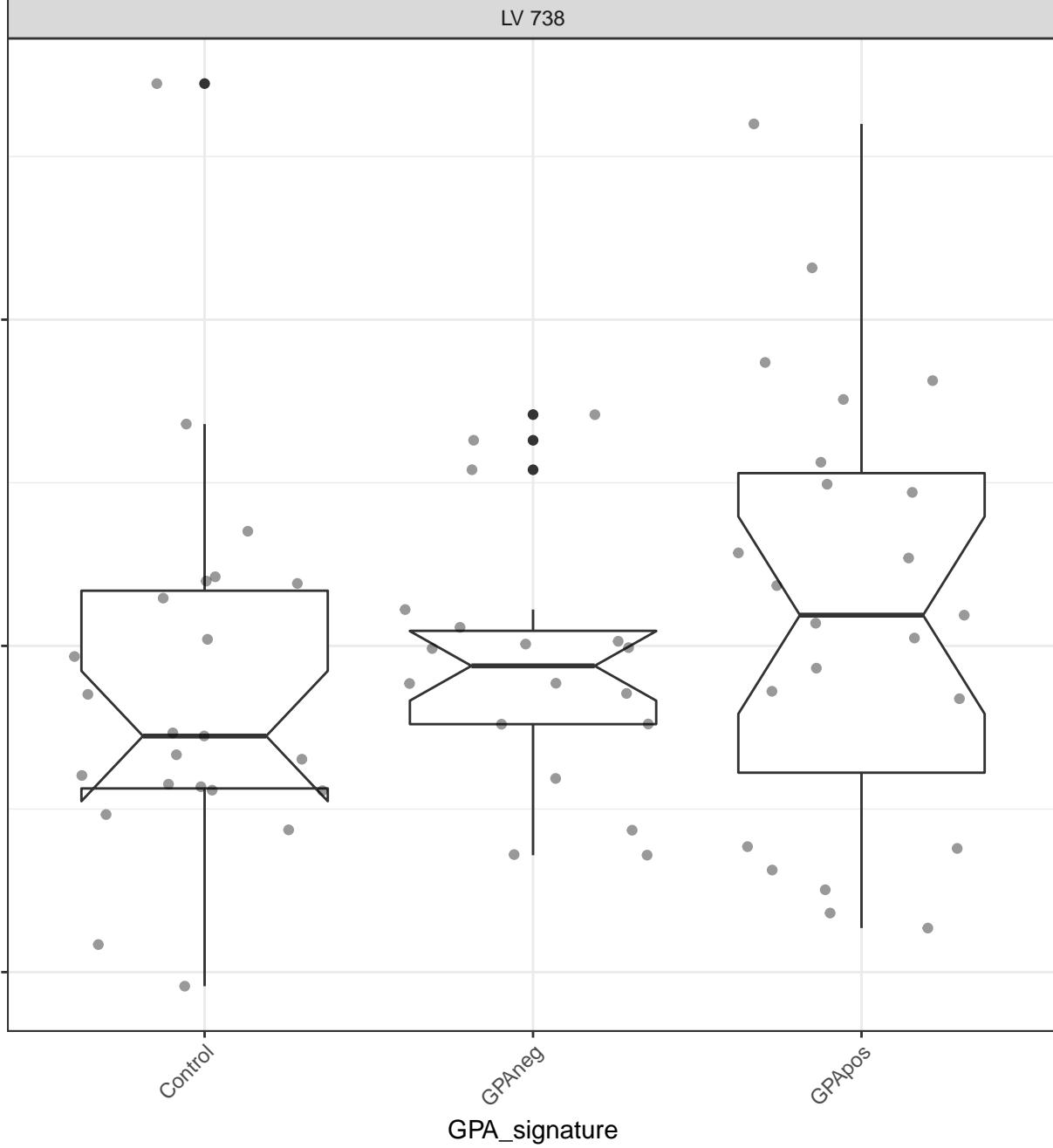
-0.02

Control

GPAneg

GPApos

GPA\_signature



## 739,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

0.1

0.0

-0.1

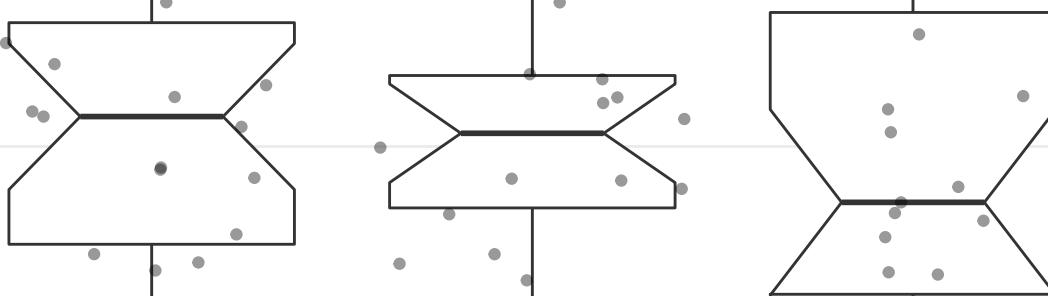
-0.2

Control

GPA\_signature

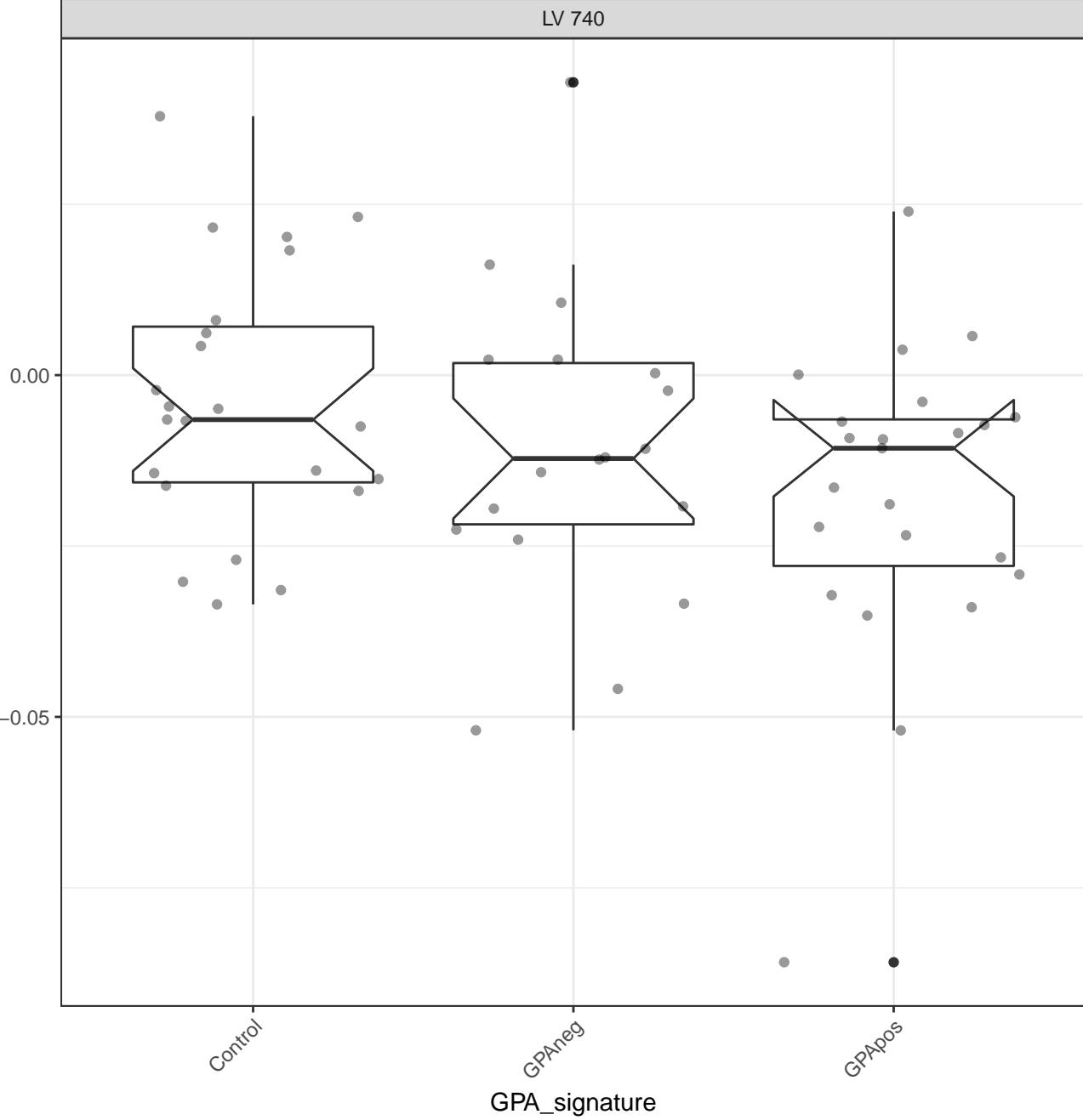
GPAneg

GPApos



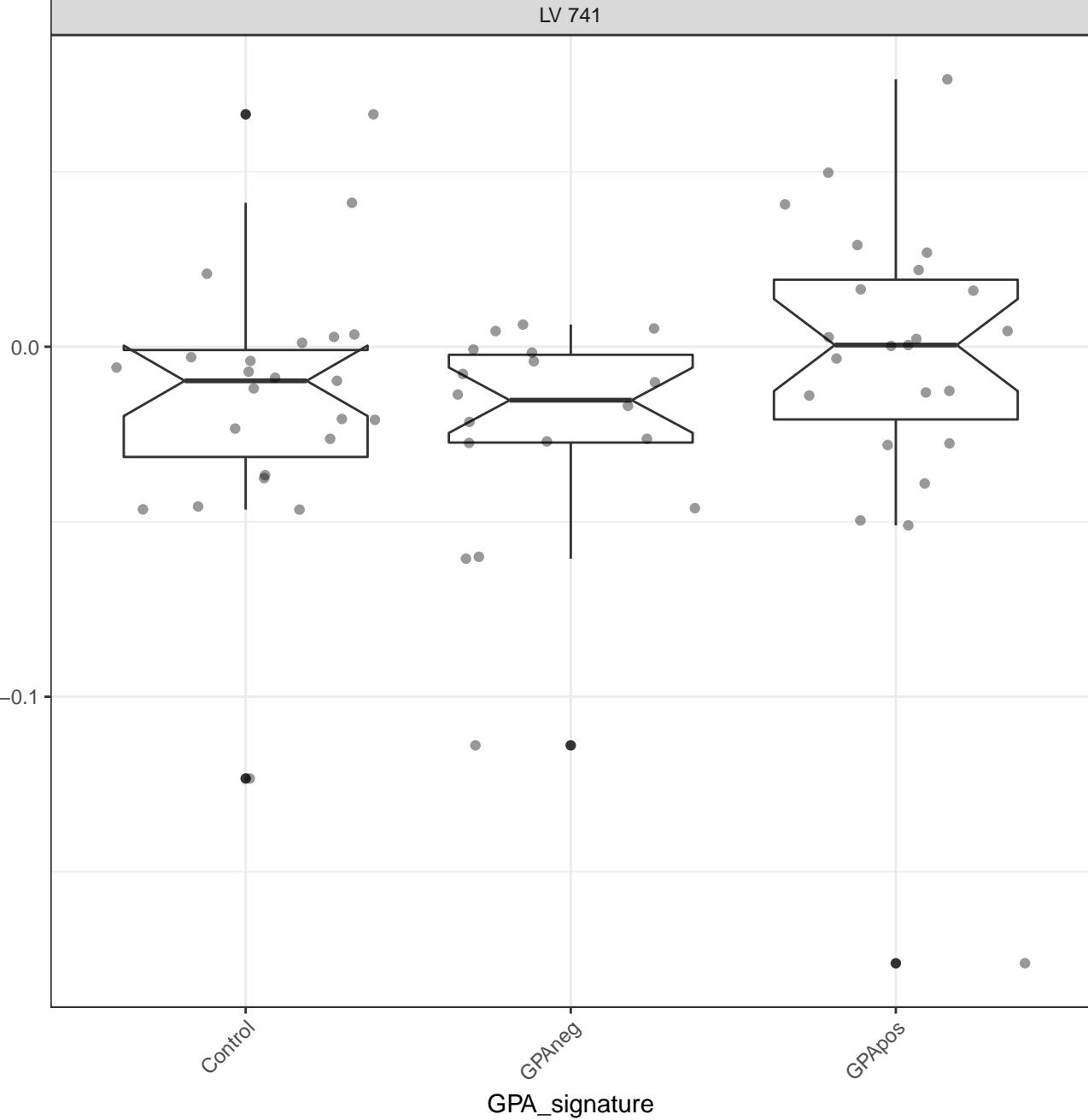
LV 740

Value



## LV 741

Value



LV 742

Value

0.025

0.000

-0.025

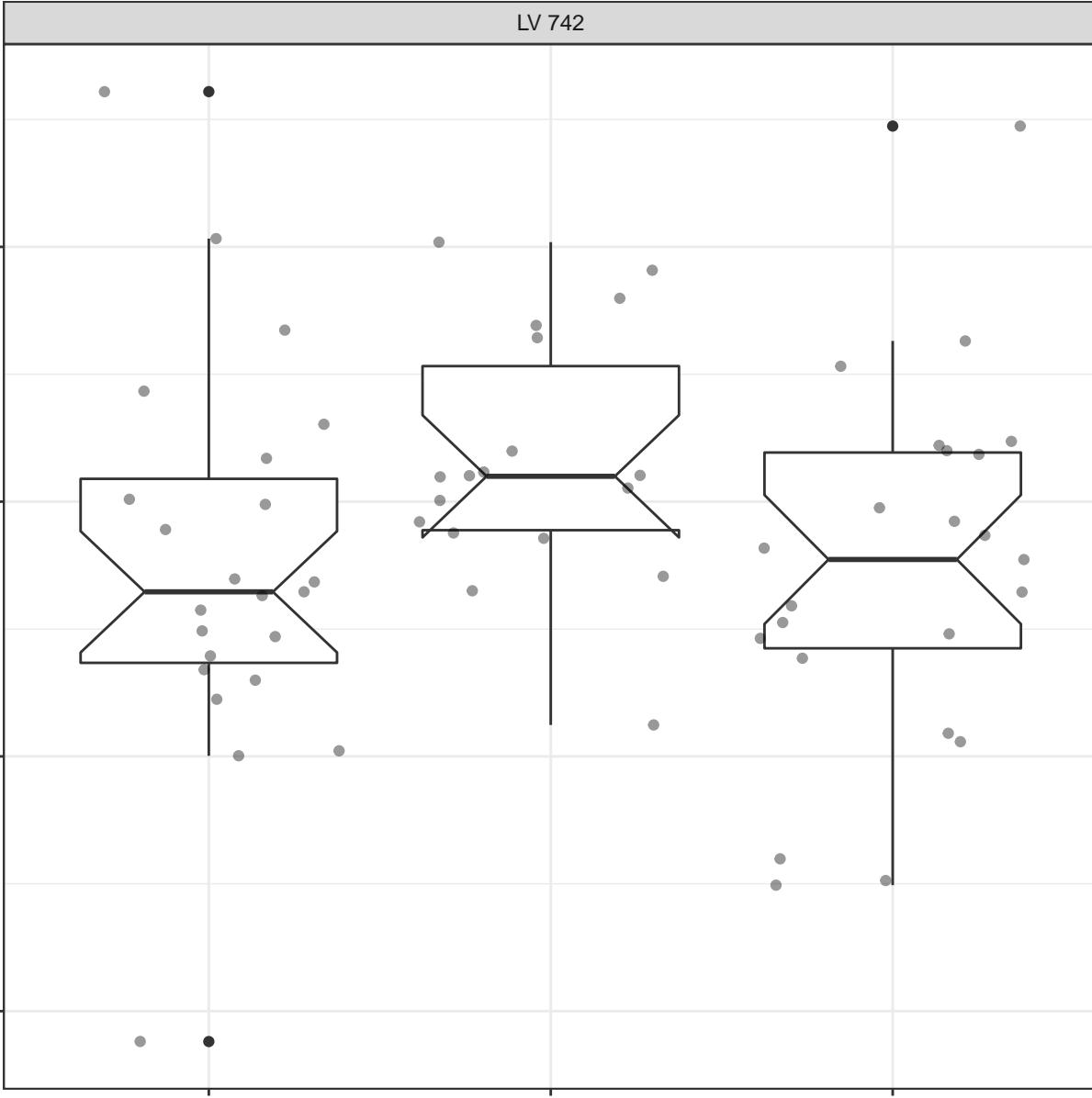
-0.050

Control

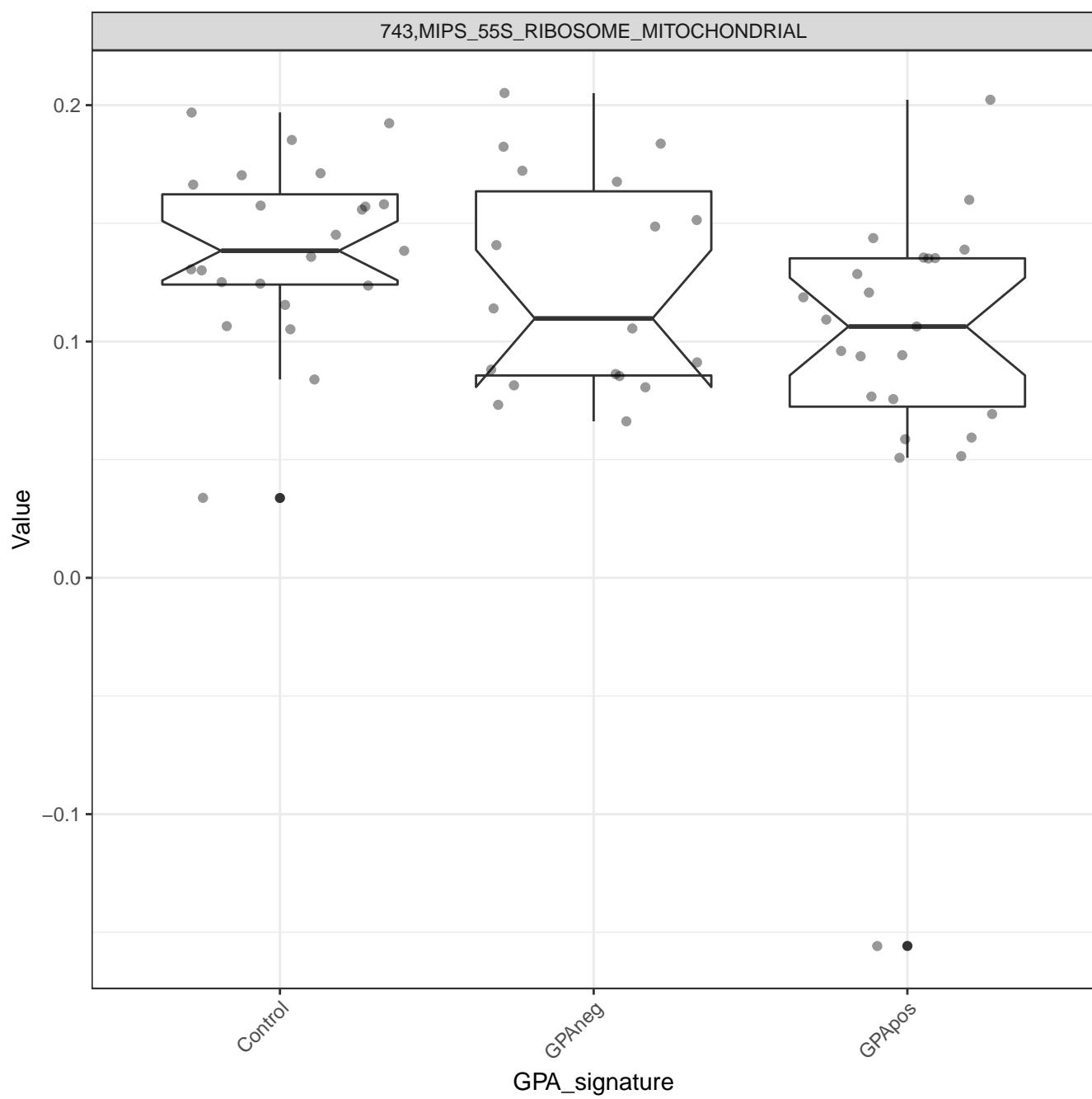
GPAneg

GPAPos

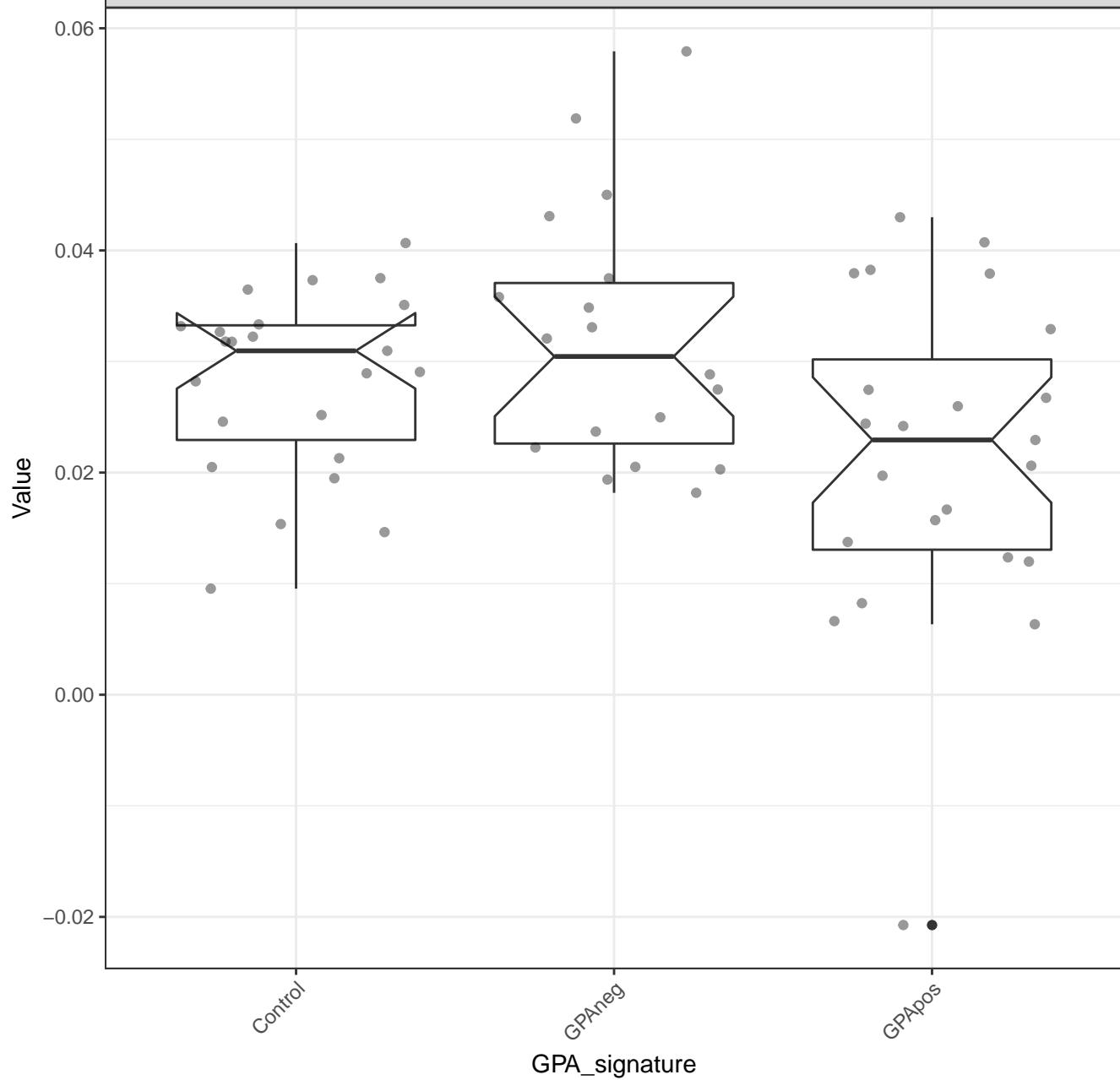
GPA\_signature



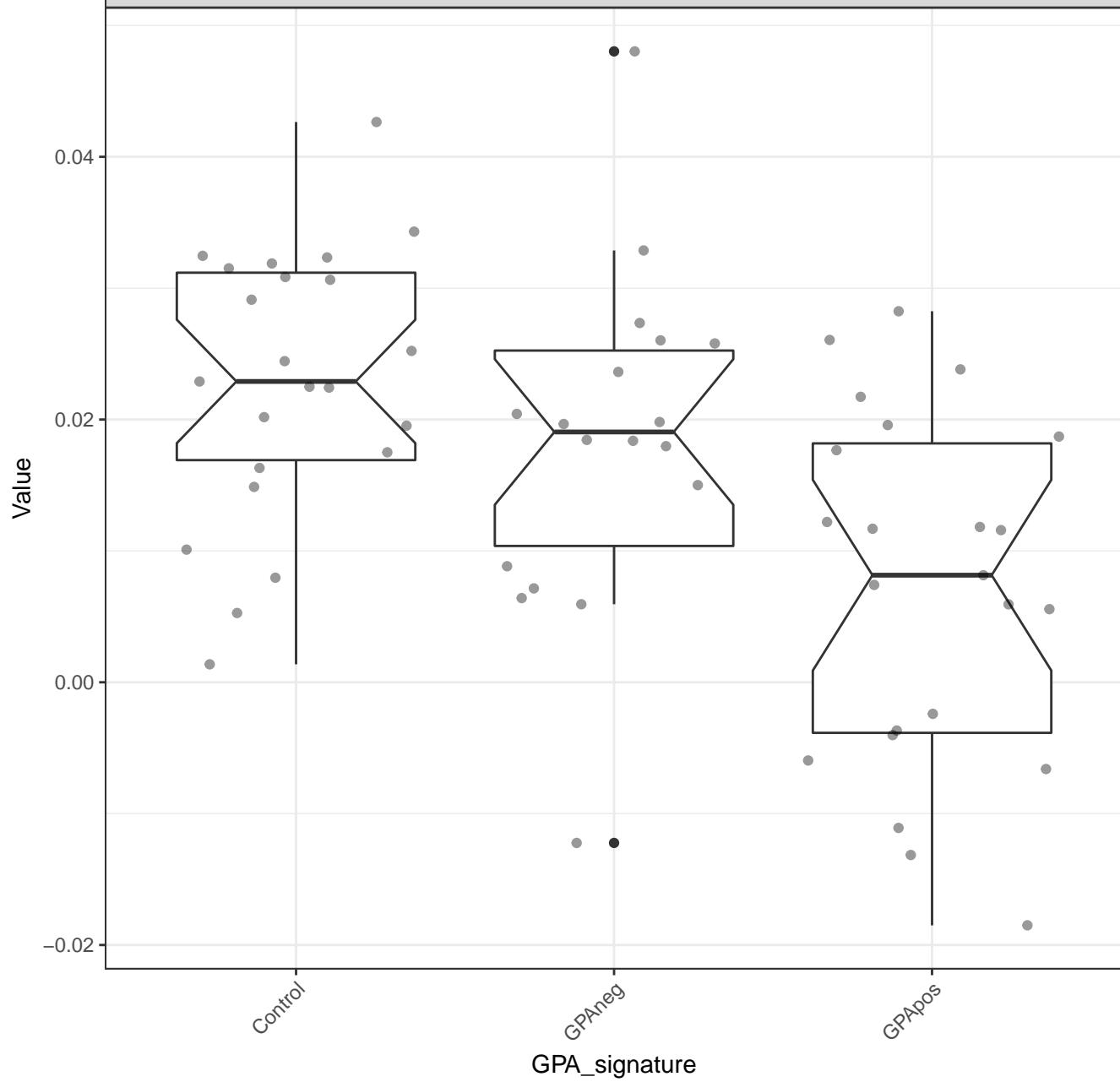
## 743,MIPS\_55S\_RIBOSOME MITOCHONDRIAL



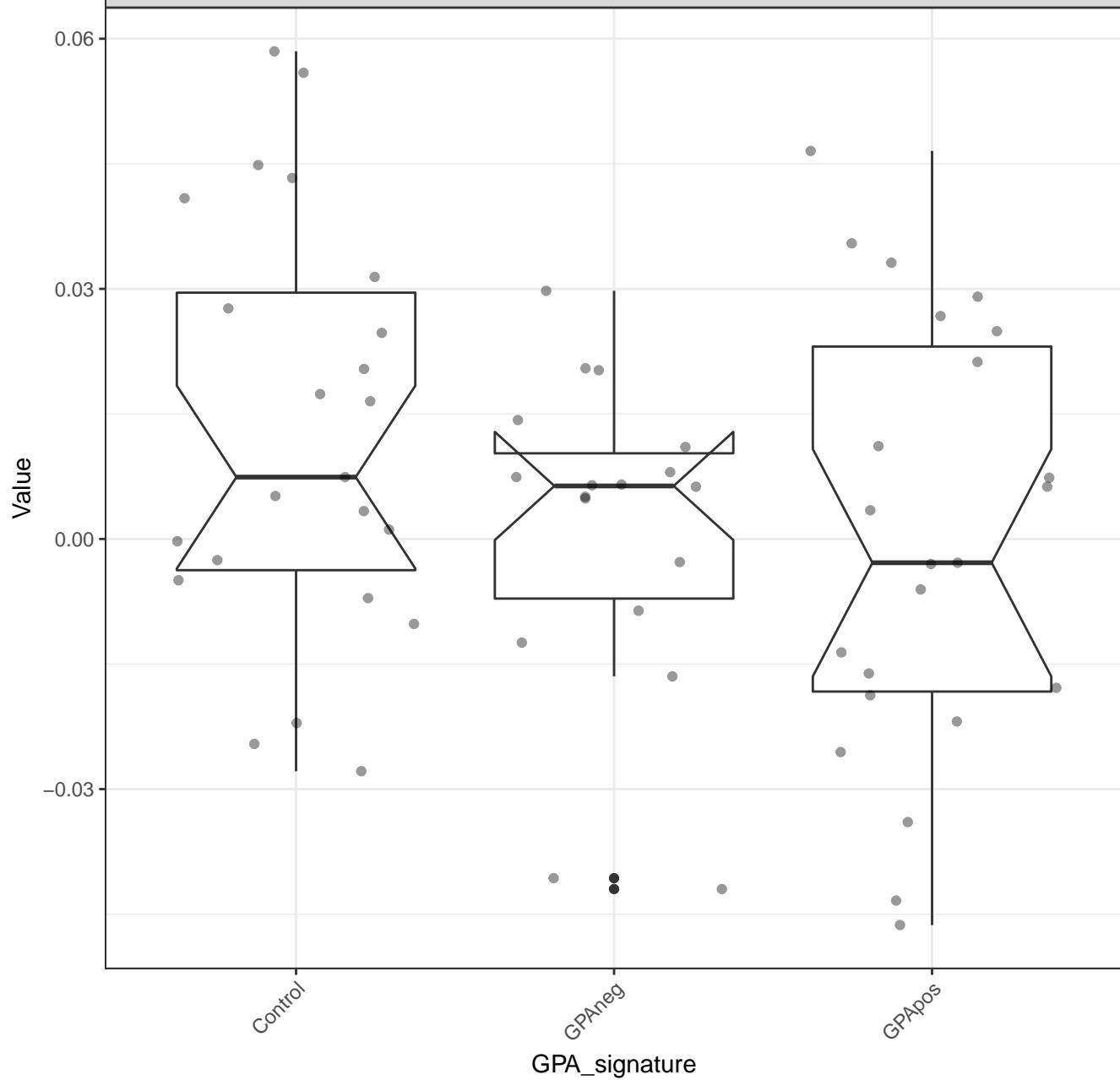
LV 744



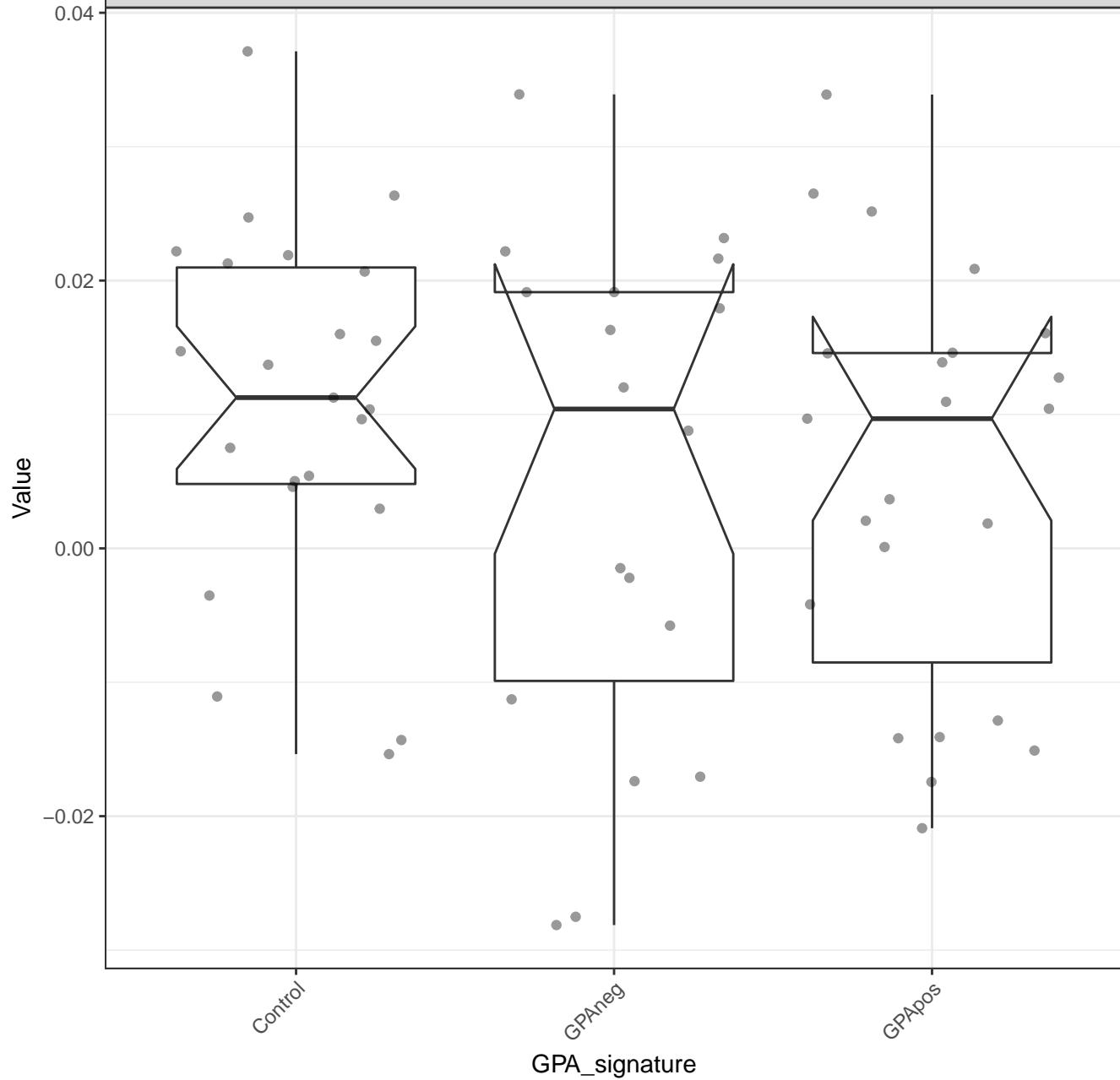
LV 745



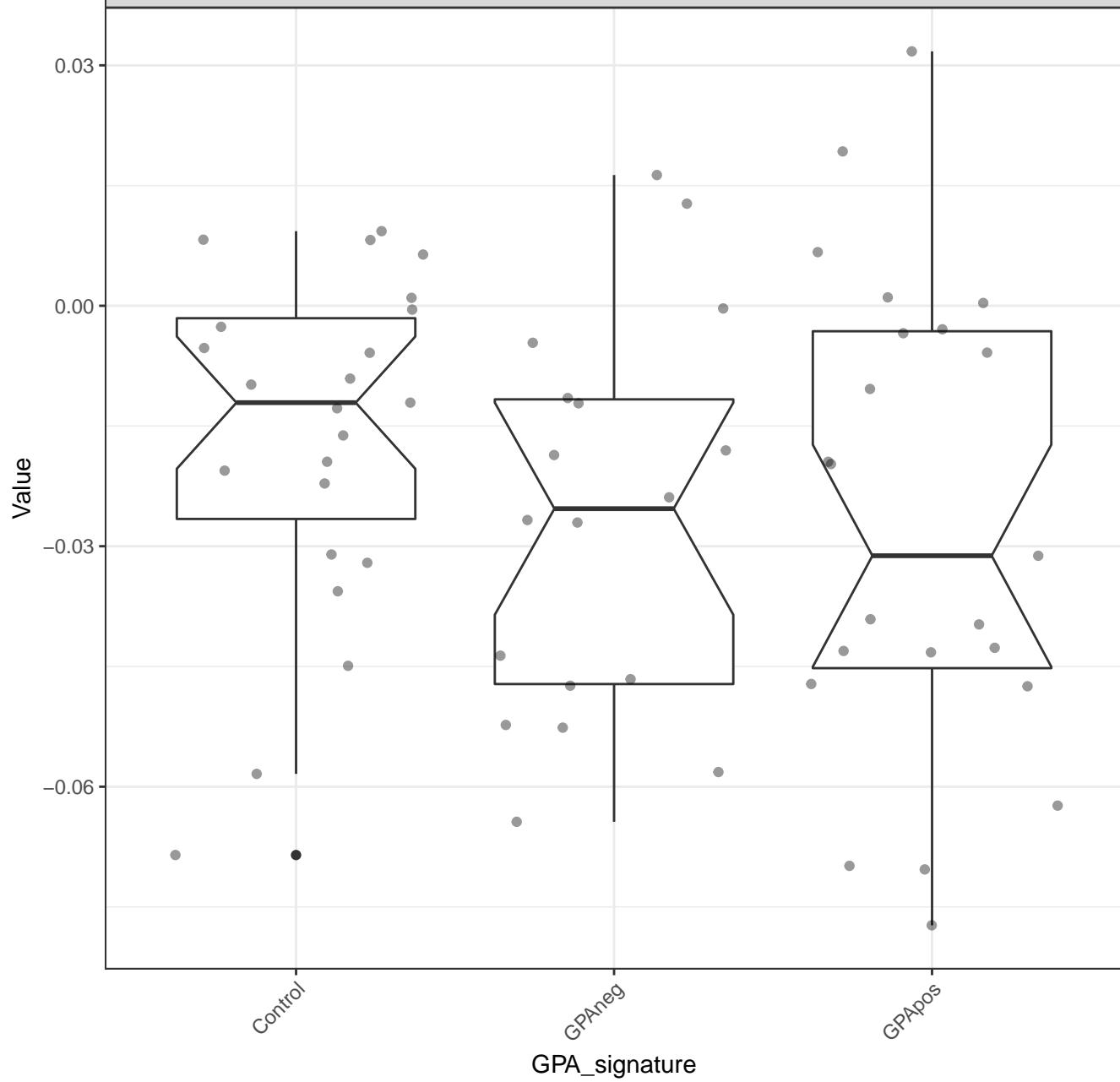
LV 746



LV 747



LV 748



LV 749

Value

0.12

0.08

0.04

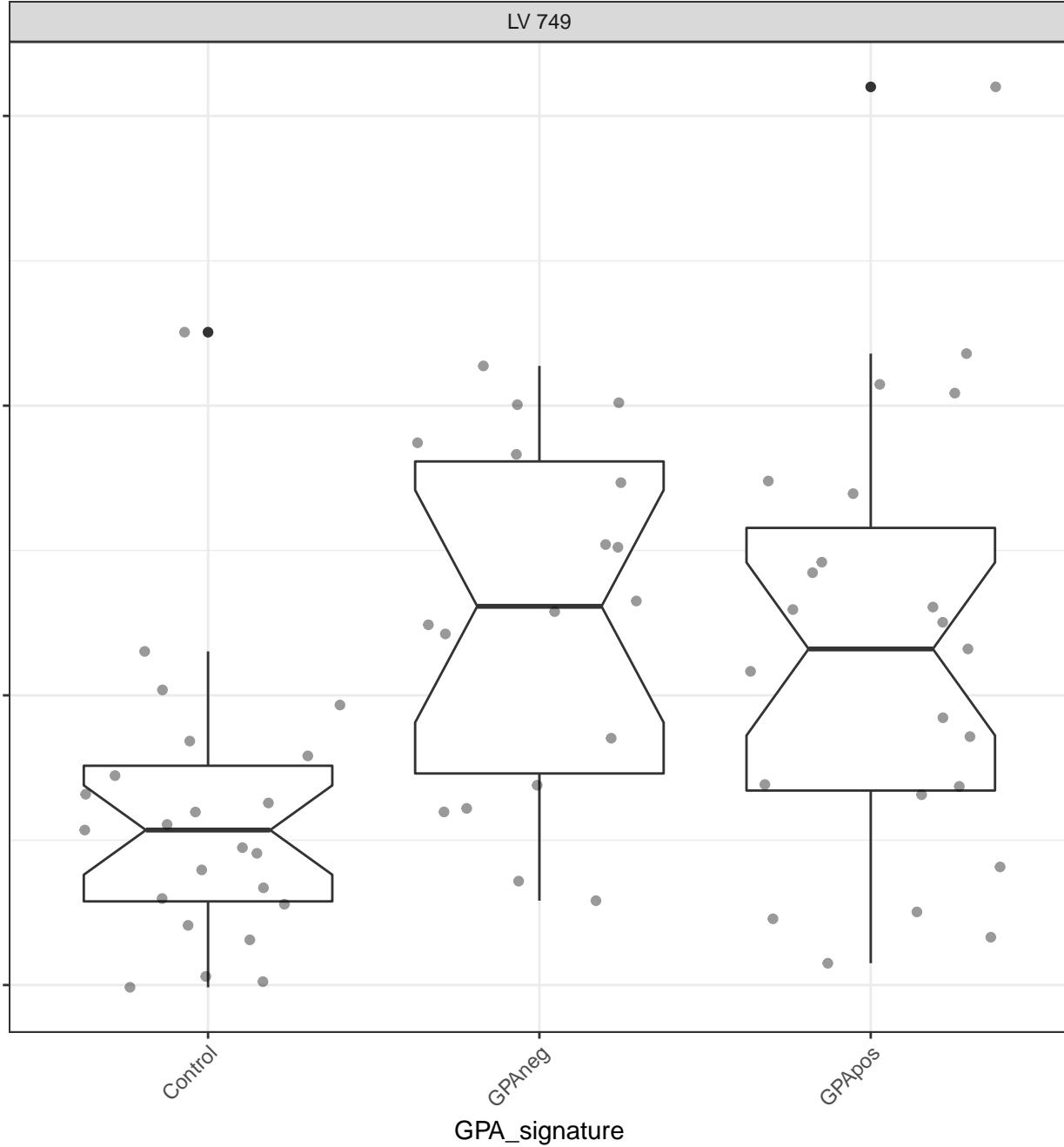
0.00

Control

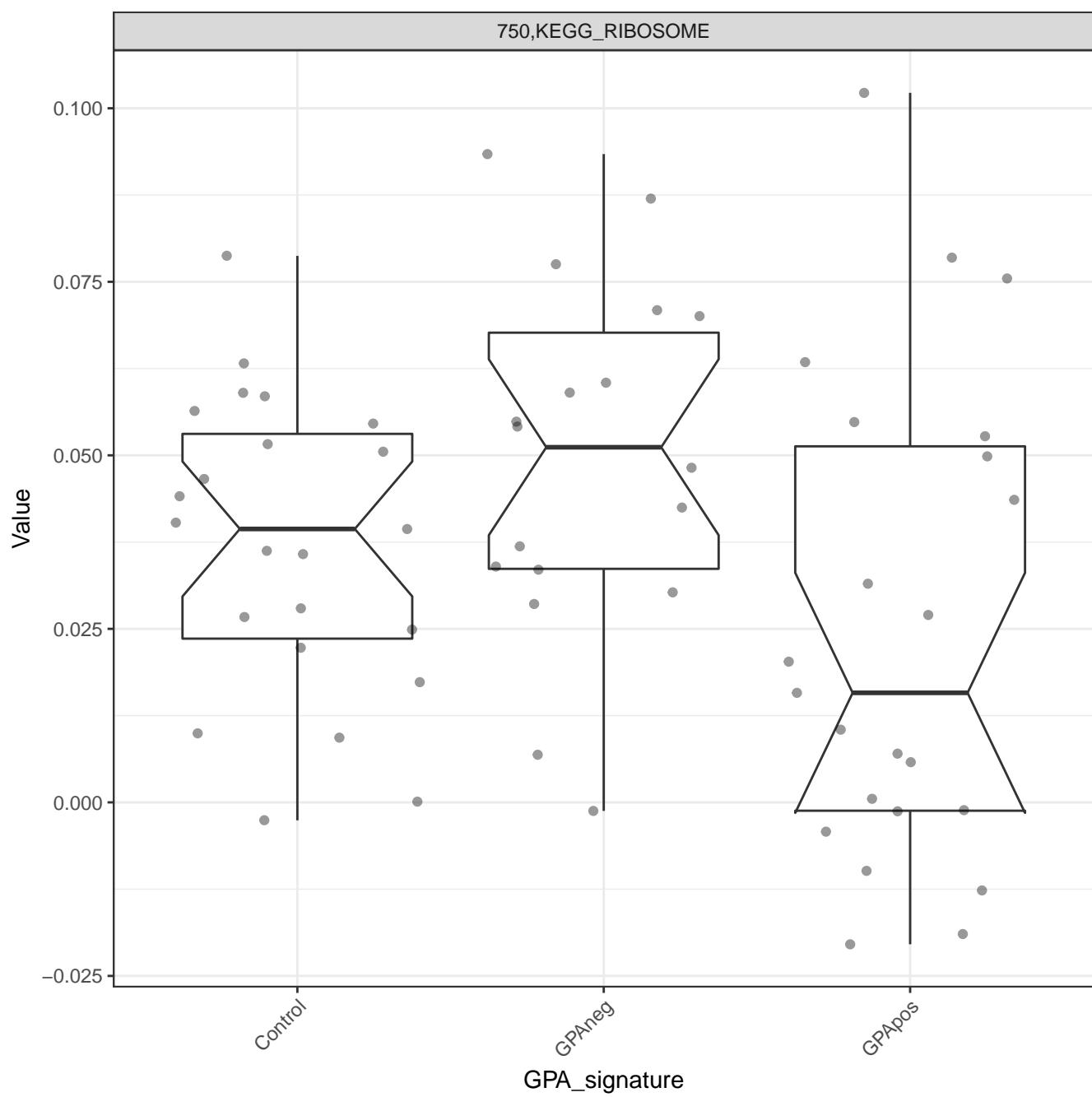
GPA\_signature

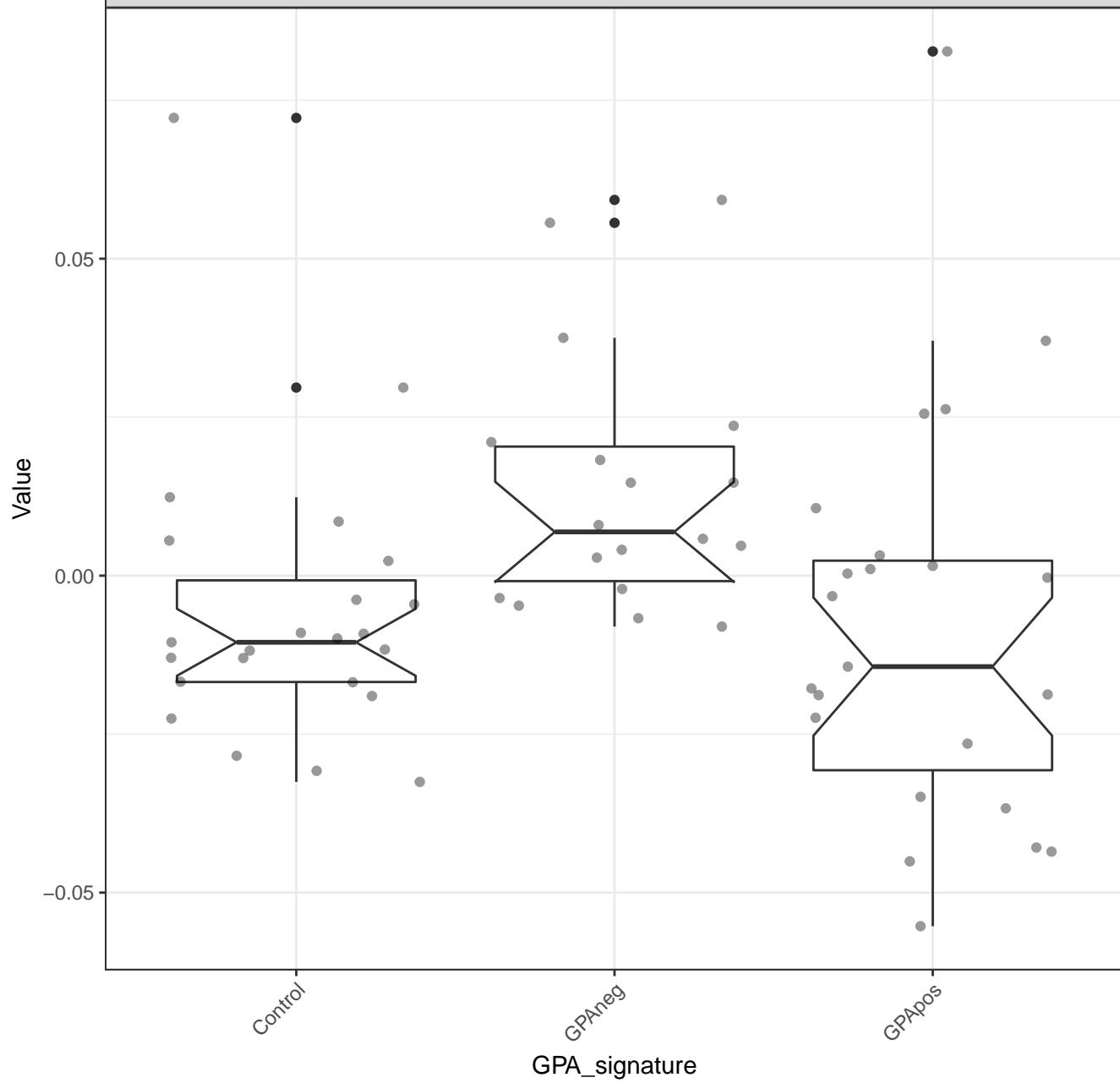
GPAneg

GPApos

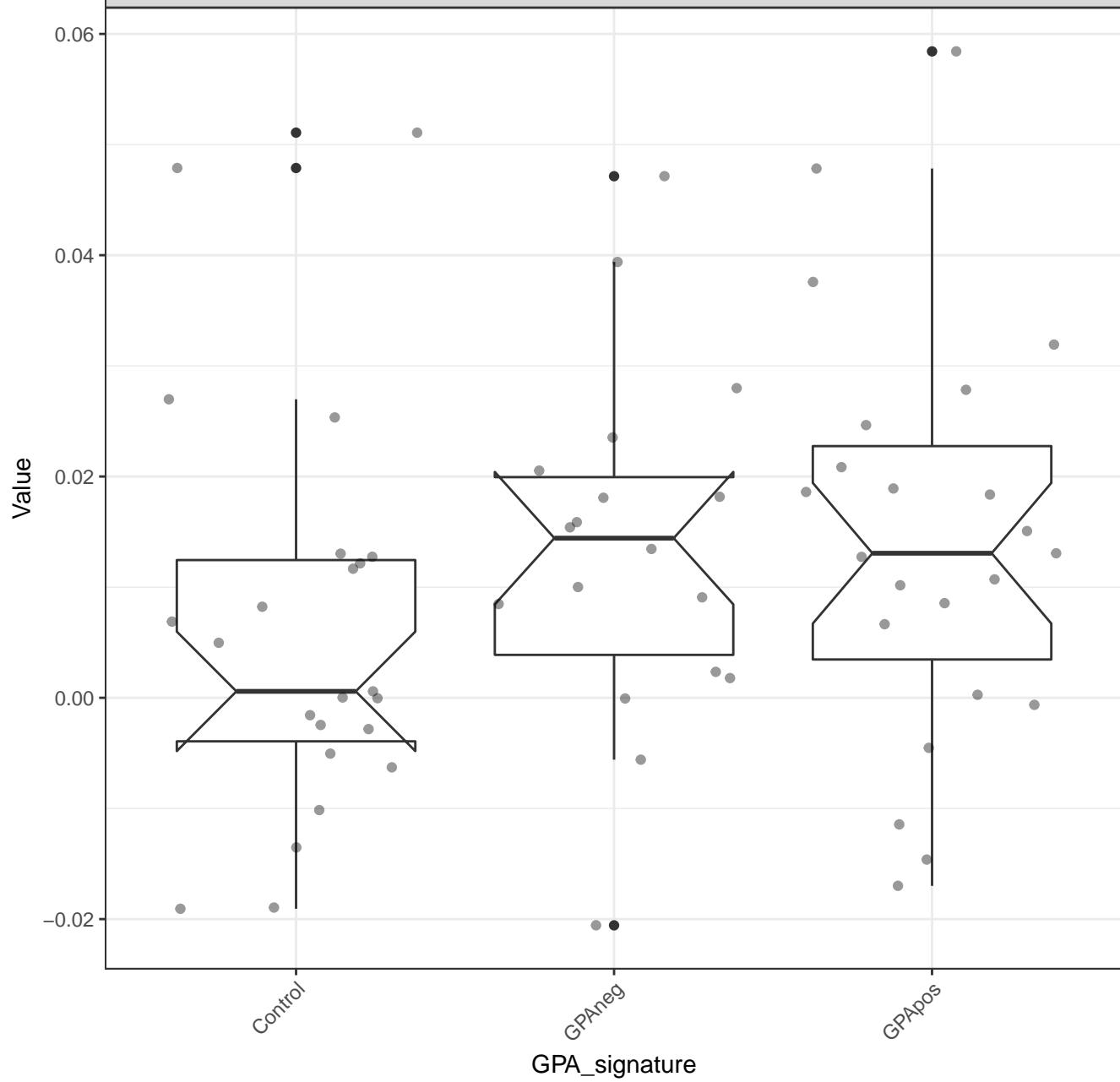


## 750,KEGG\_RIBOSOME





LV 752



## LV 753

Value

0.050

0.025

0.000

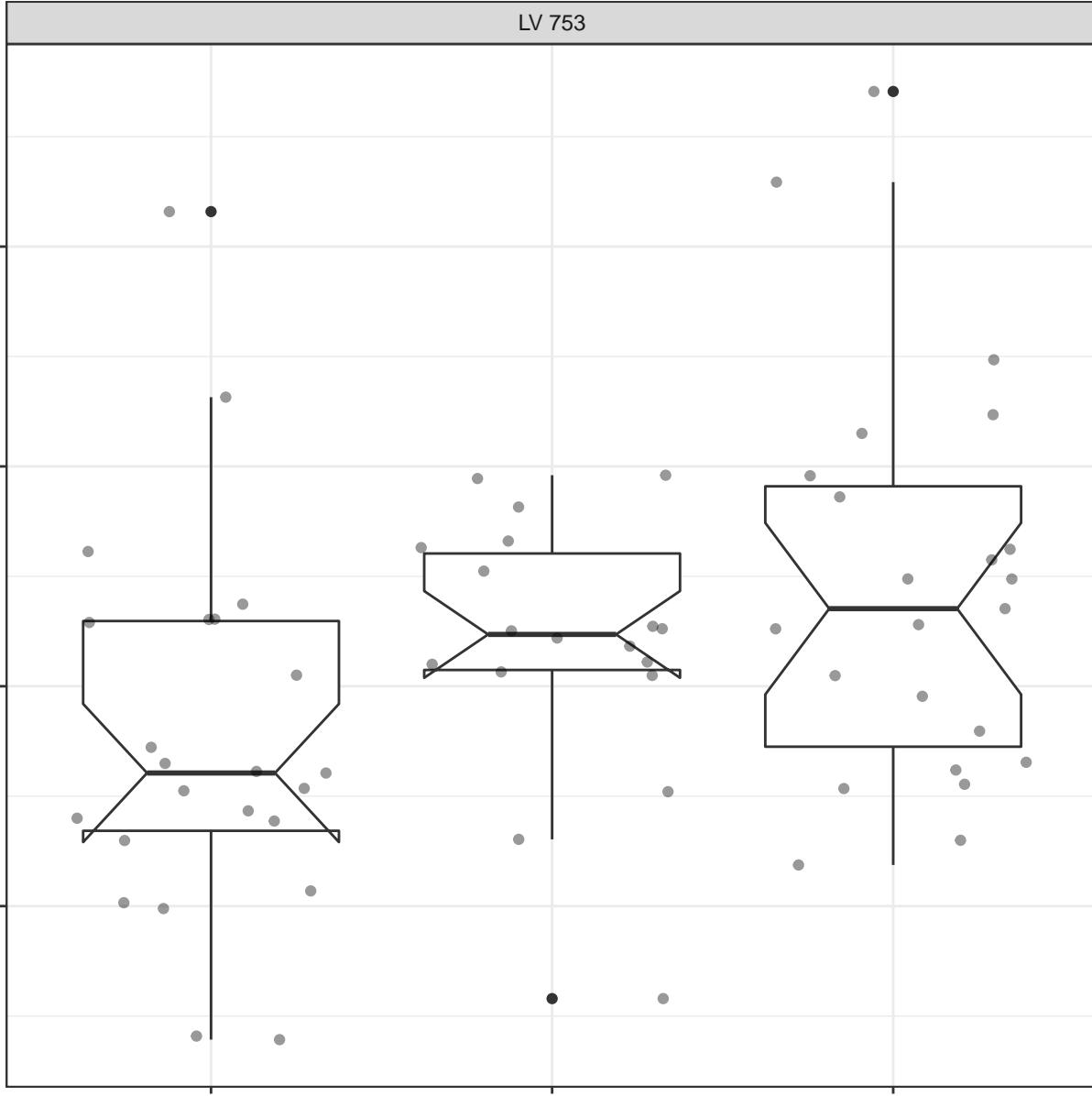
-0.025

Control

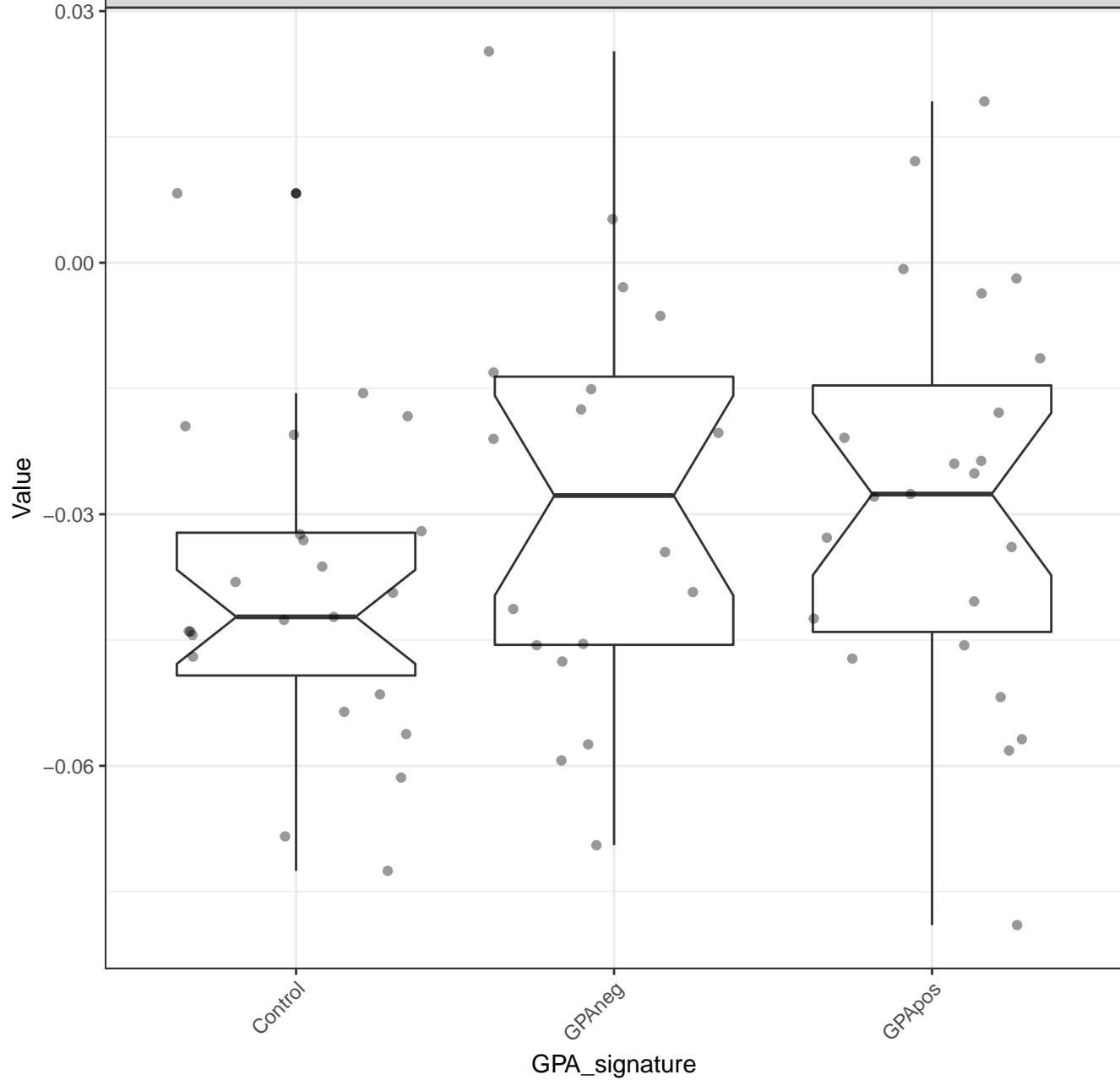
GPA\_signature

GPAneg

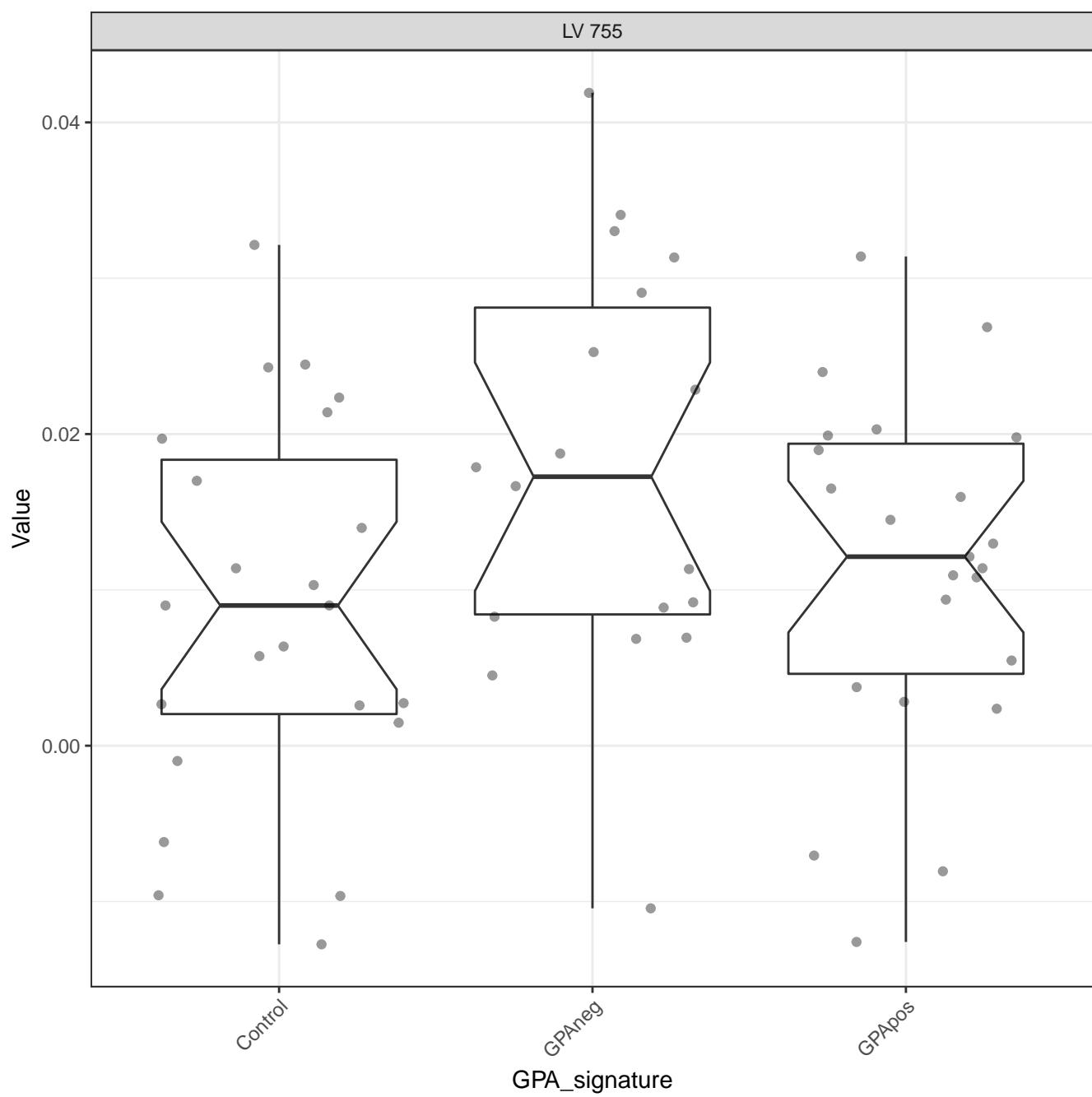
GPAPos



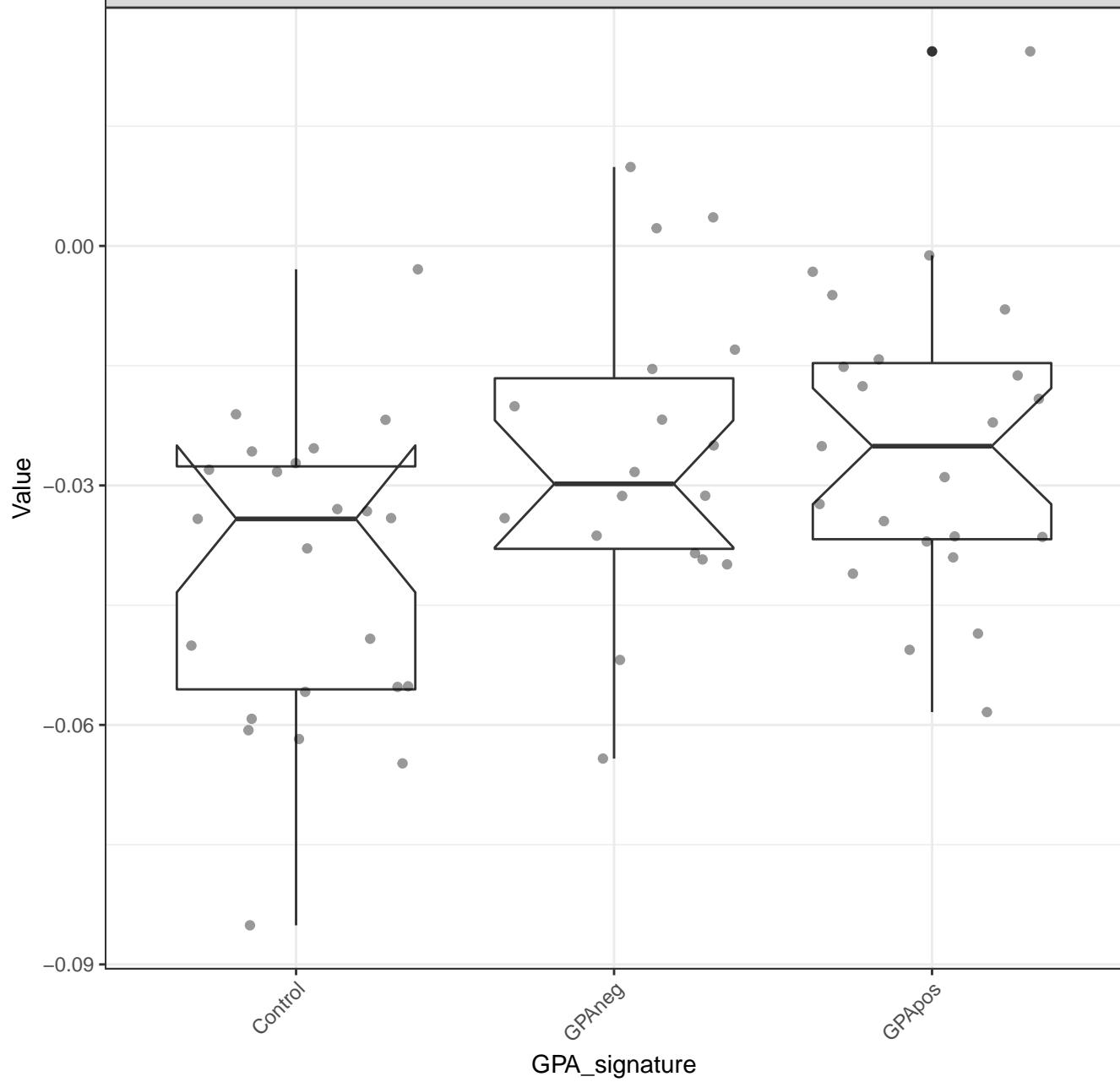
LV 754



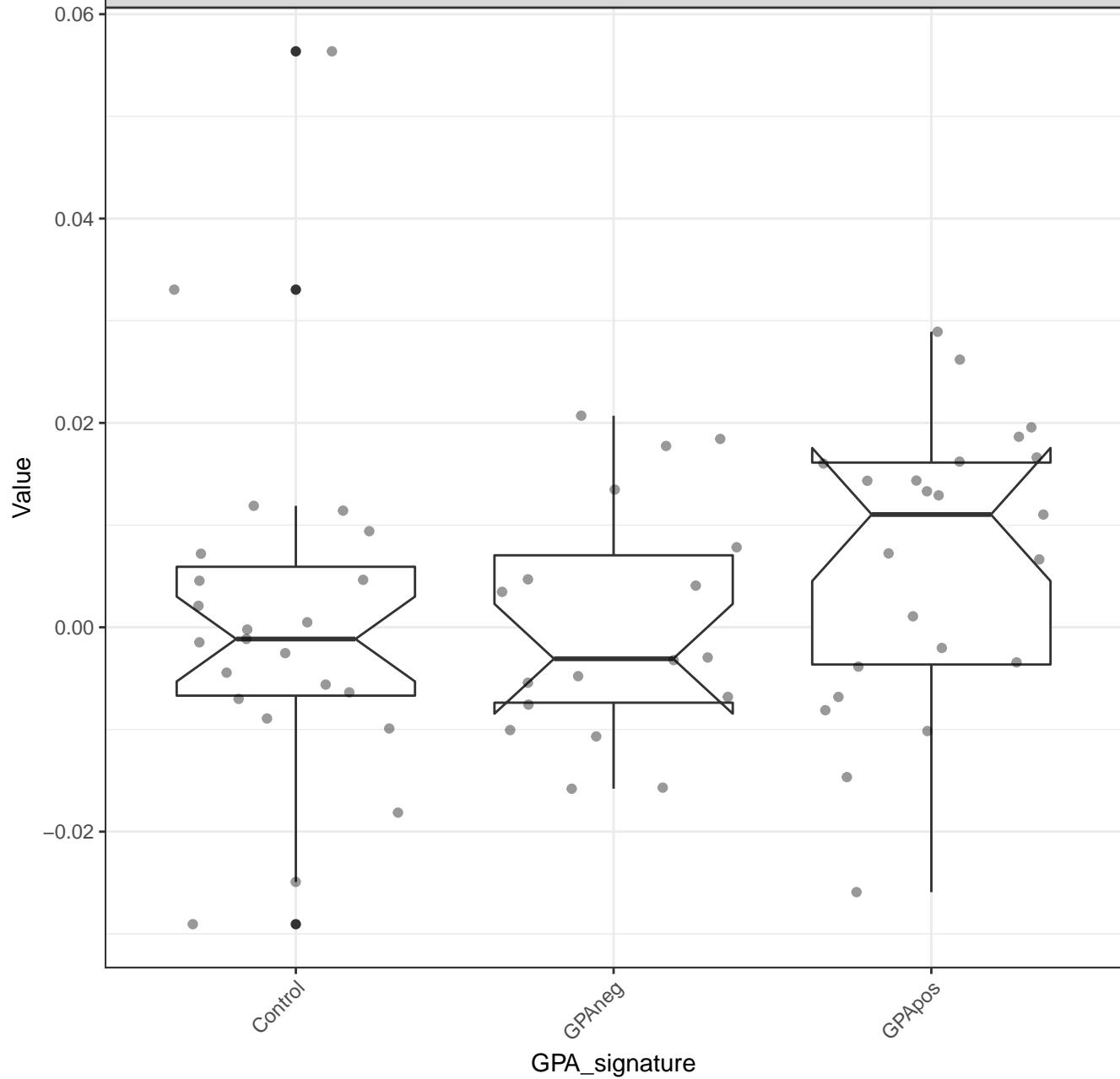
LV 755



LV 756



LV 757



LV 758

Value

0.10

0.05

0.00

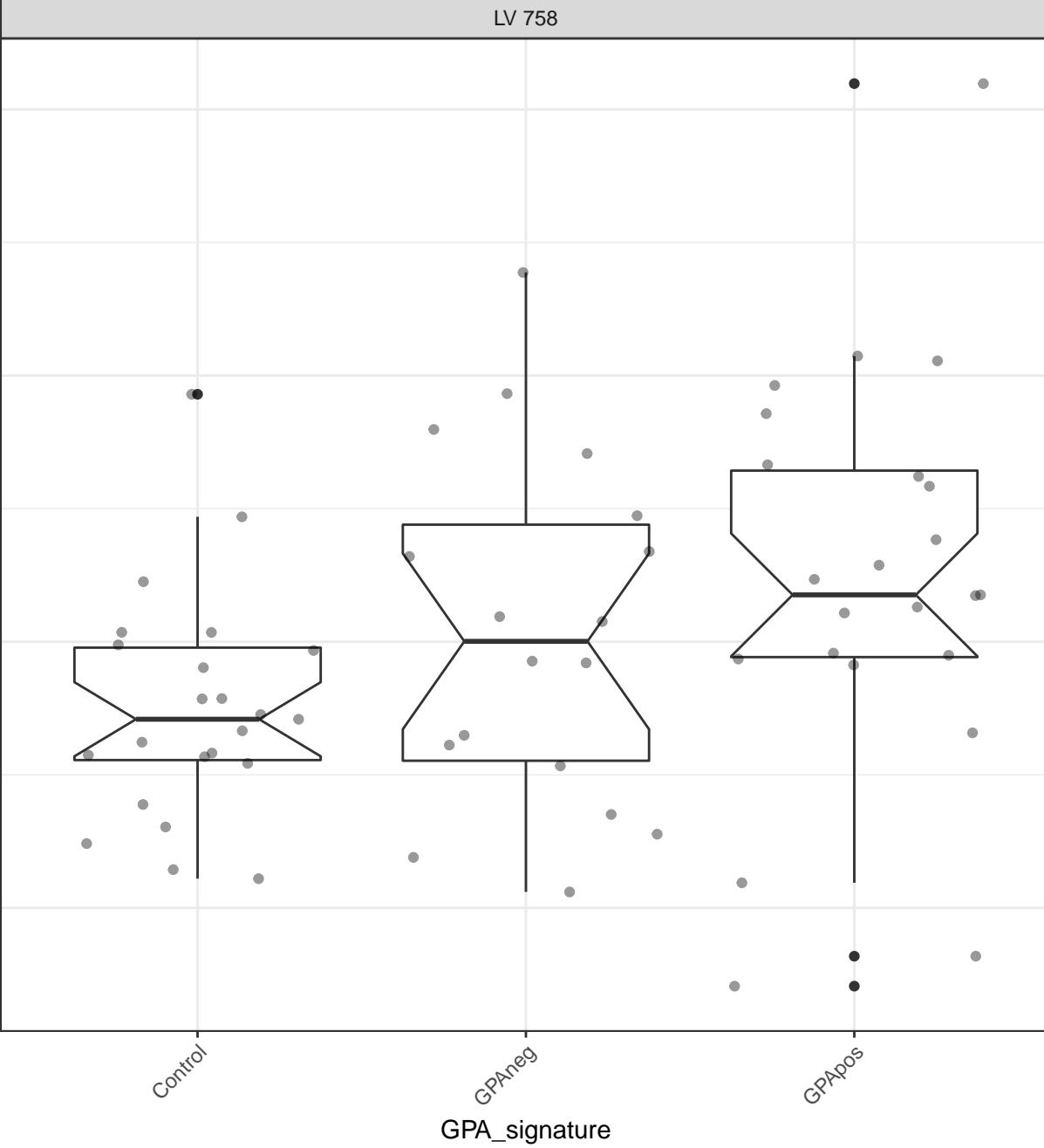
-0.05

Control

GPAneg

GPAPos

GPA\_signature



LV 759

Value

0.08

0.04

0.00

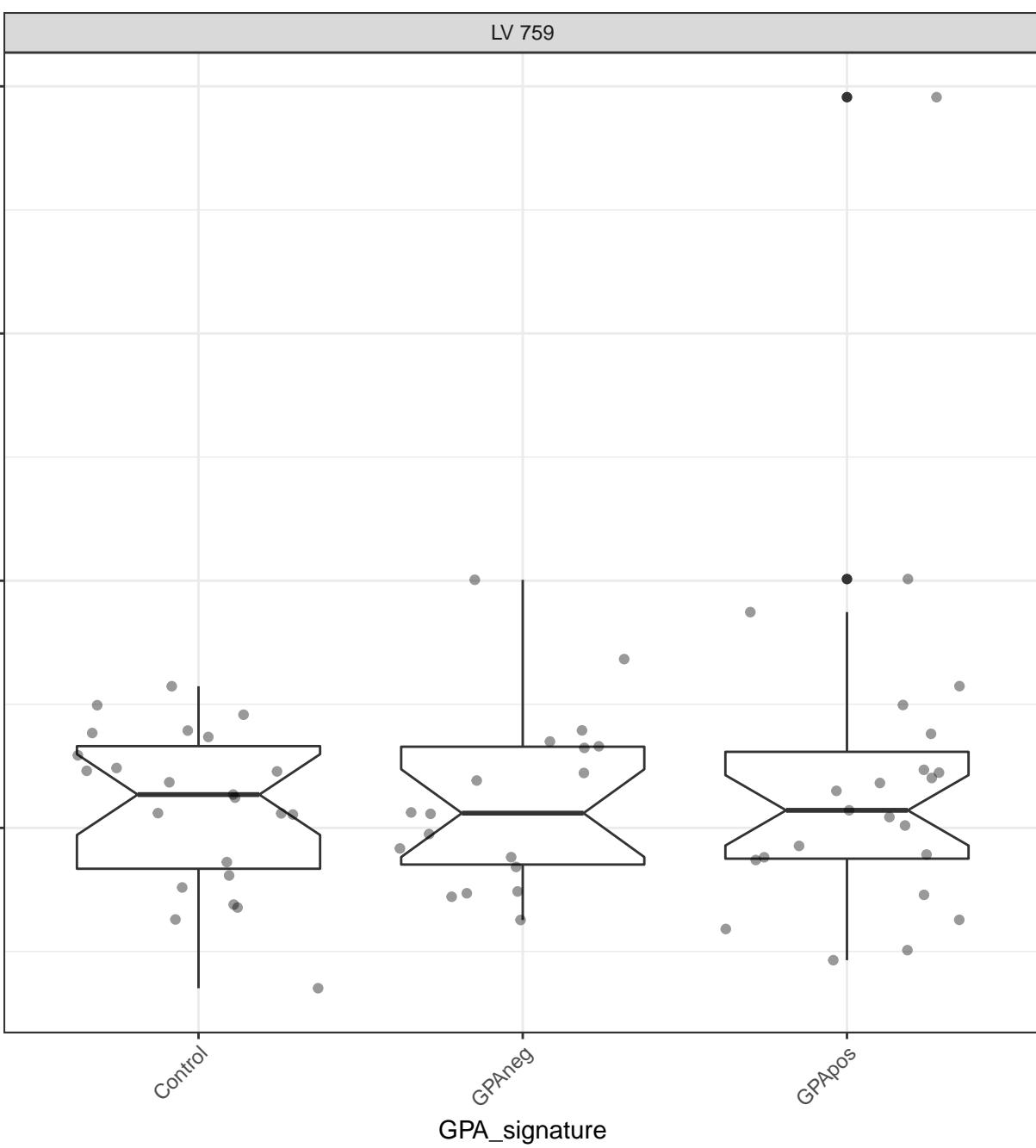
-0.04

Control

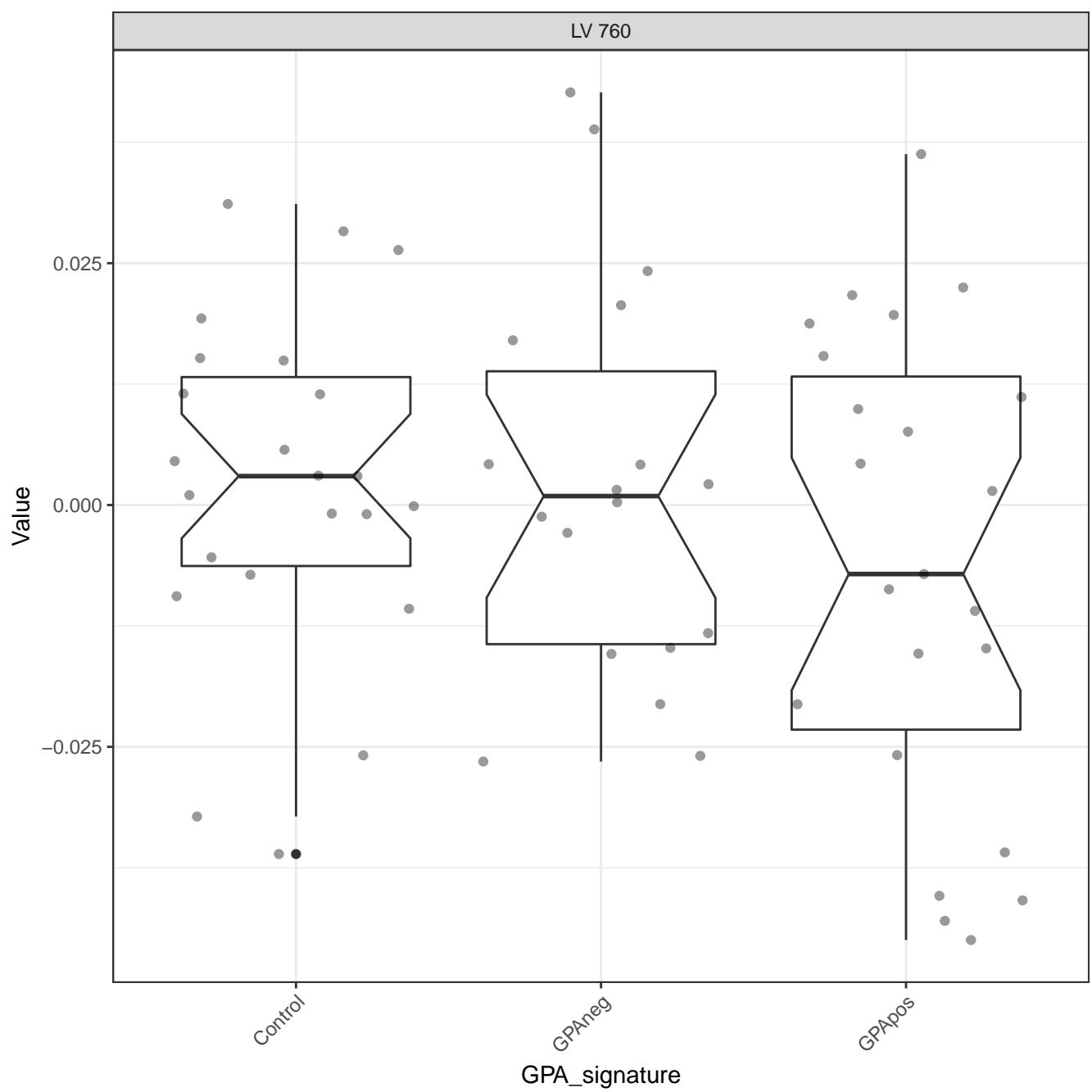
GPAneg

GPAPos

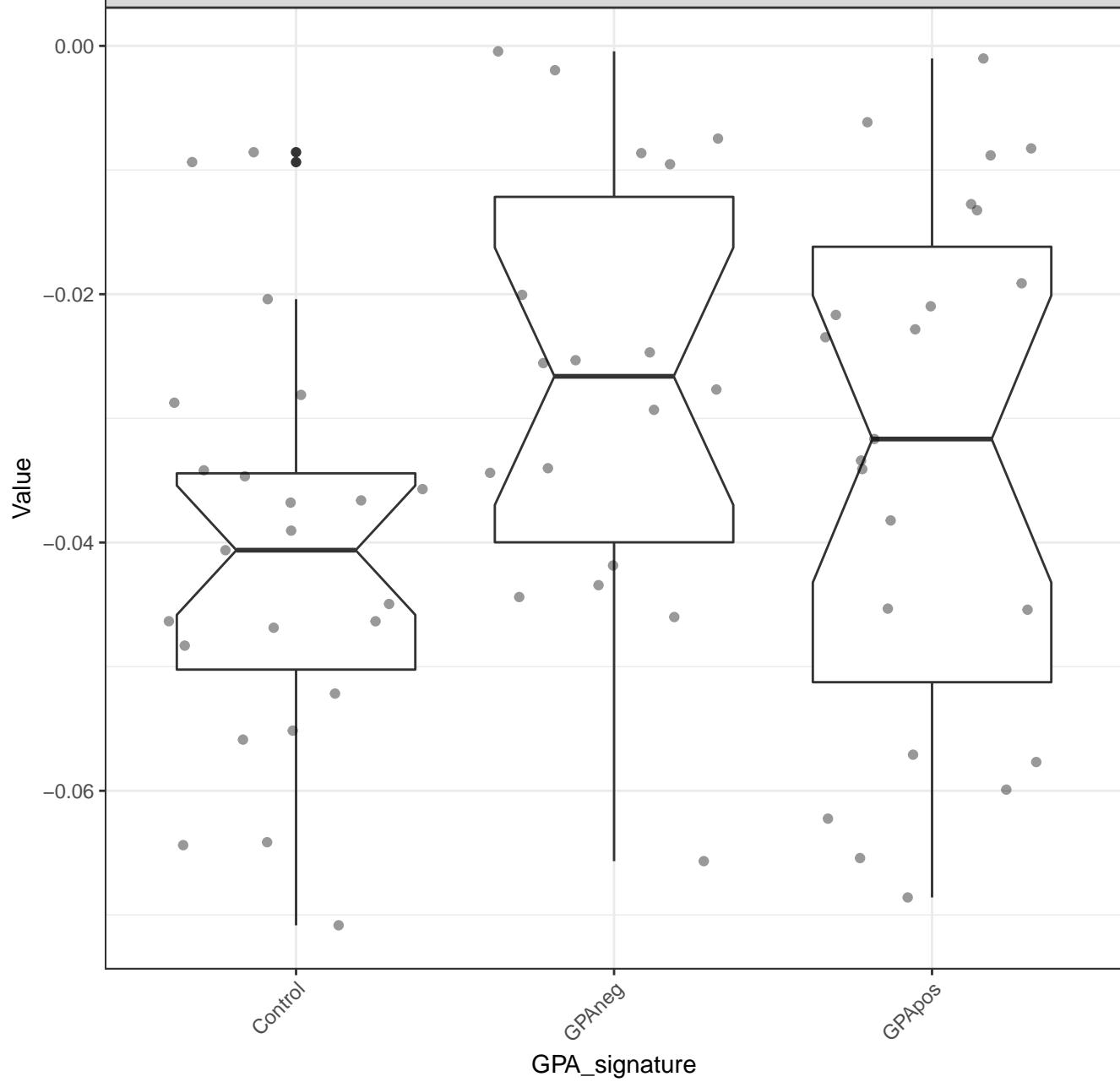
GPA\_signature



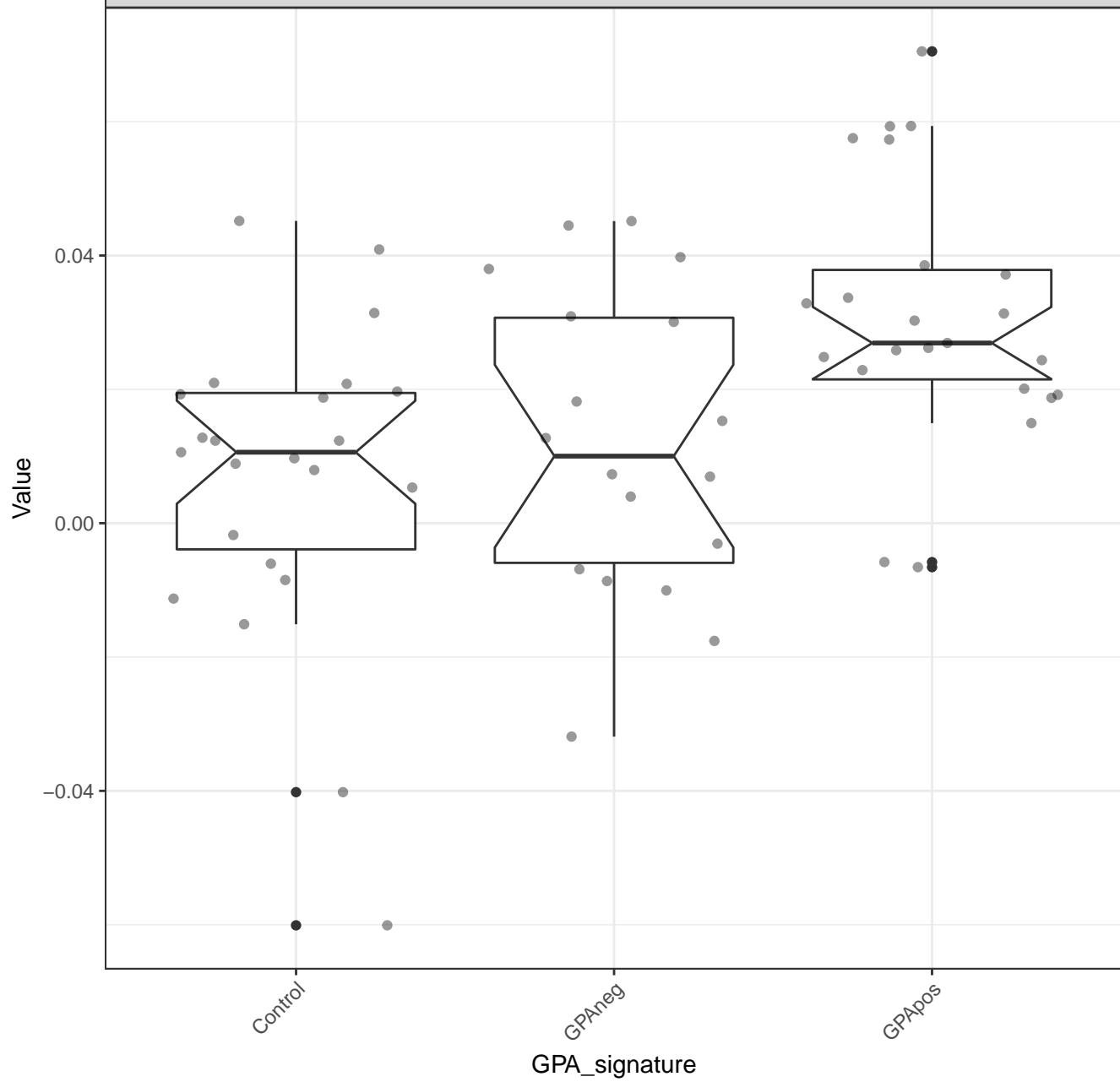
LV 760



LV 761



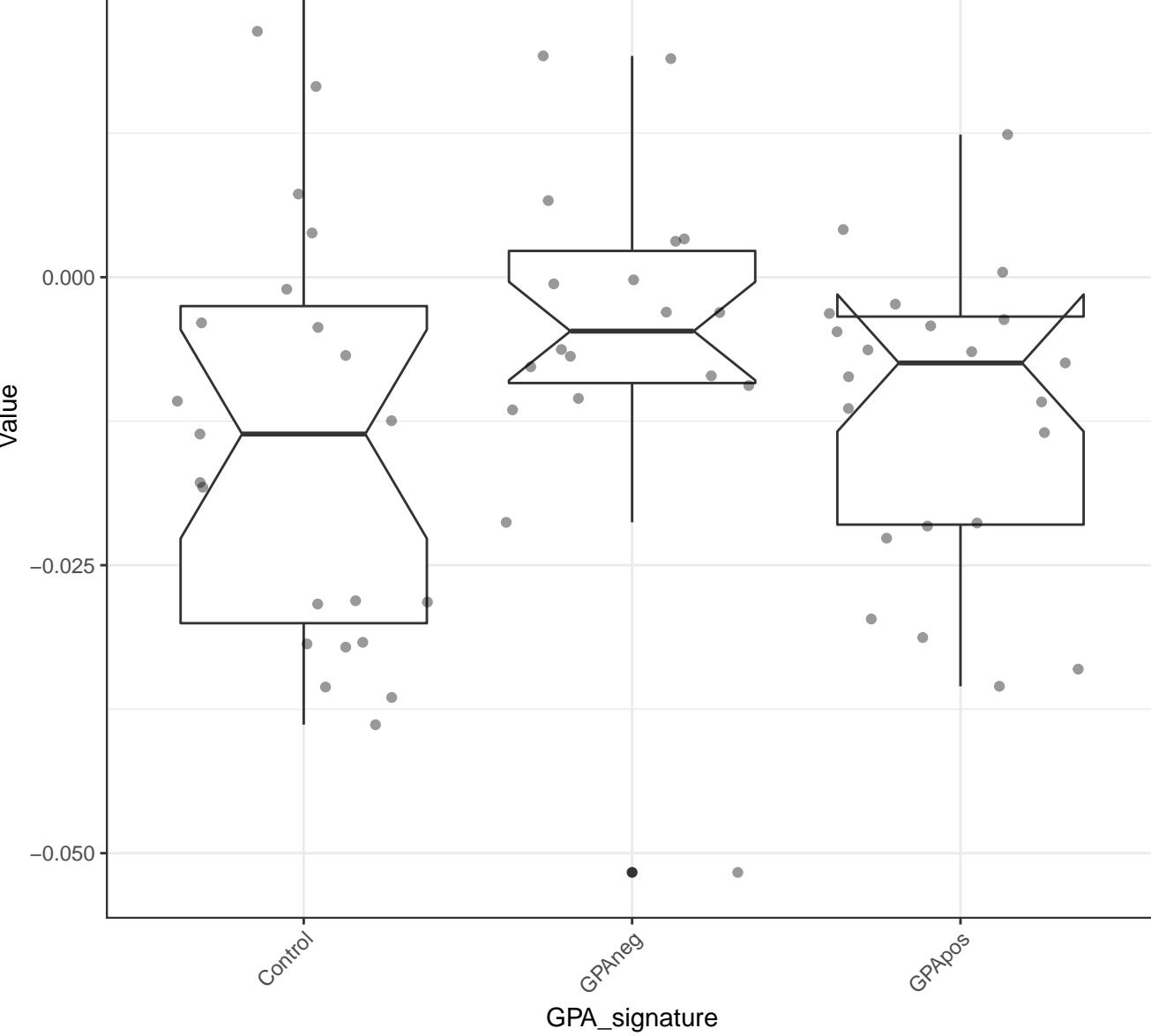
LV 762



## LV 763

Value

0.025

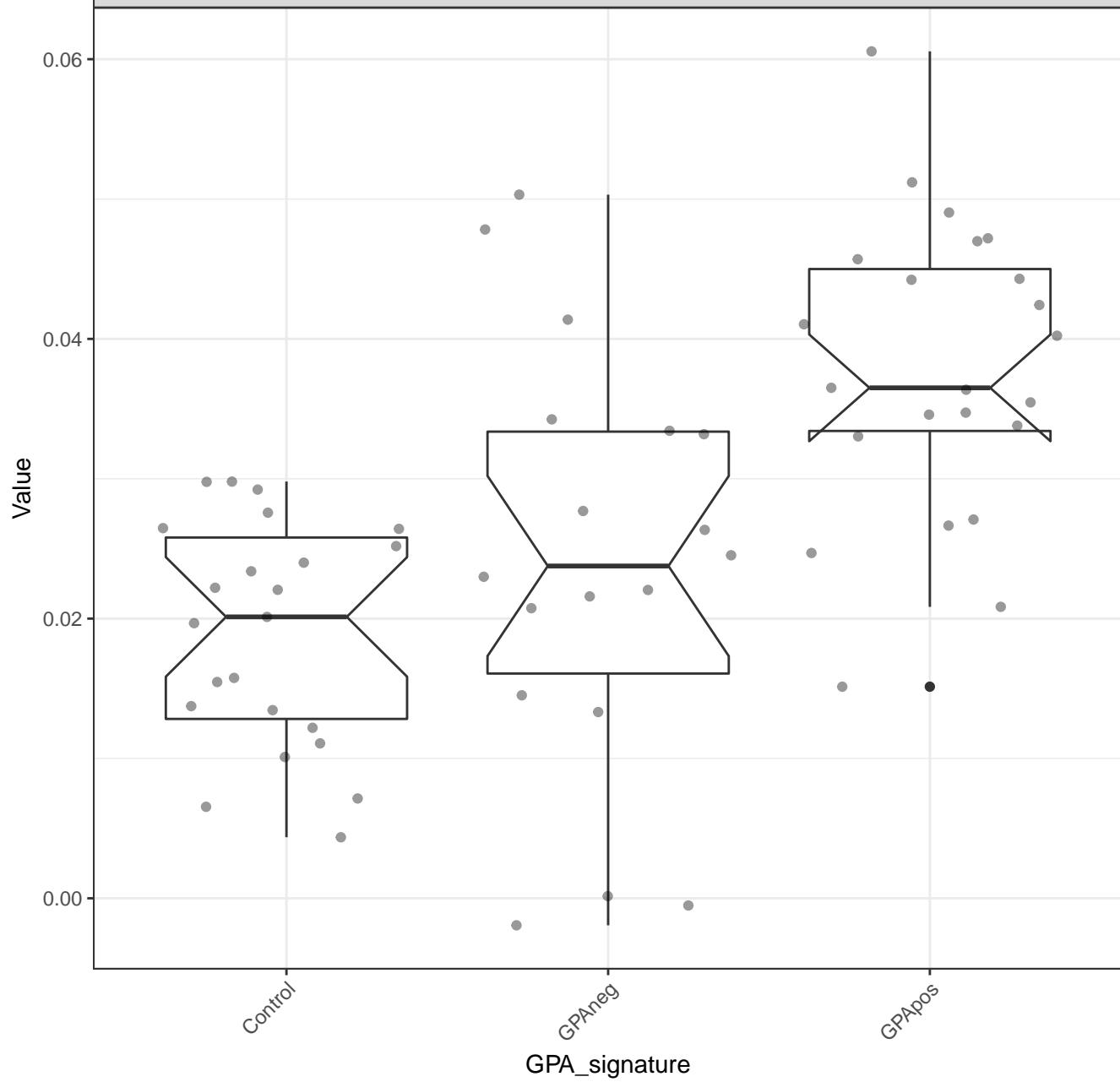


Control

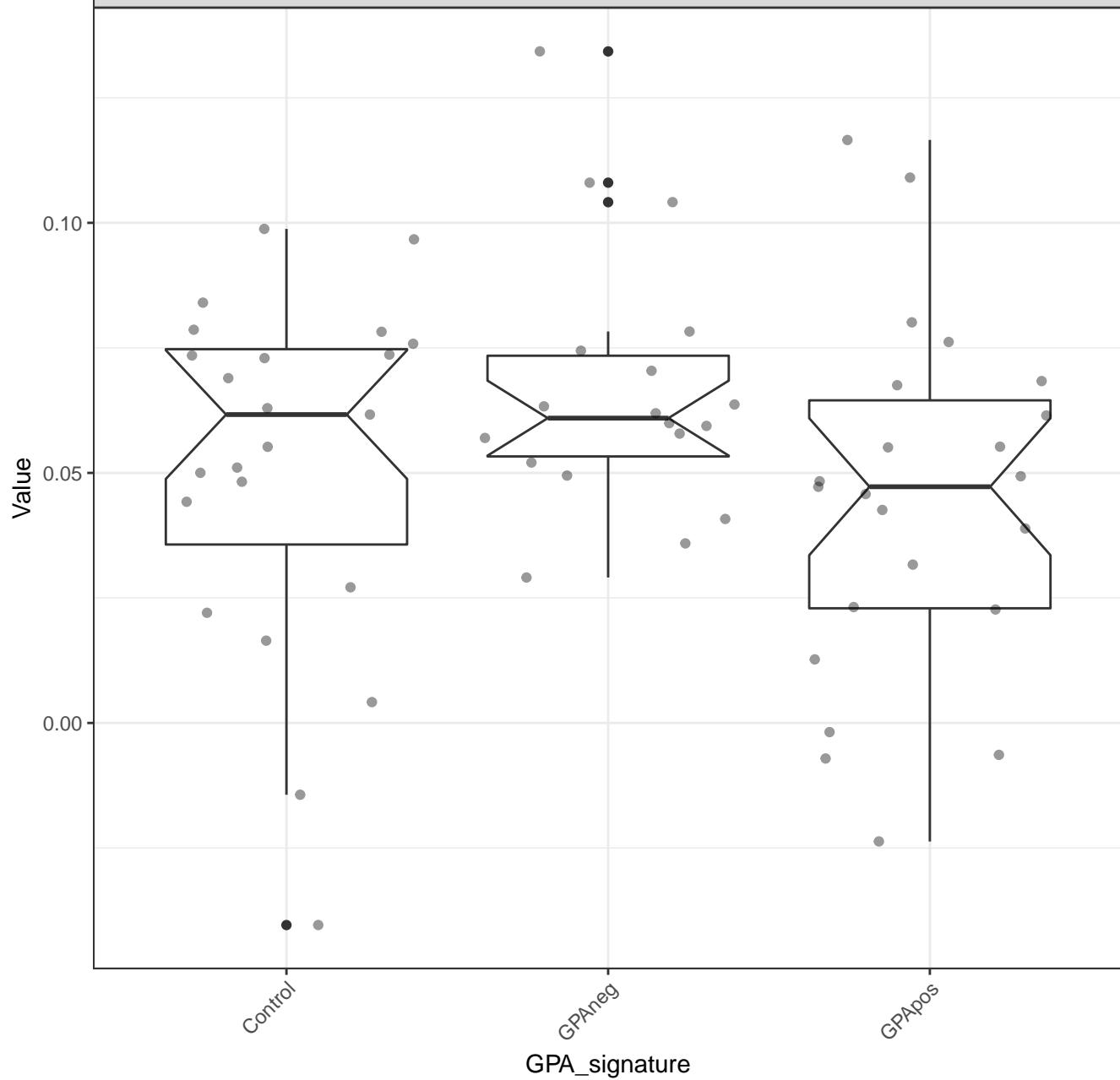
GPA\_signature

GPA<sub>neg</sub>GPA<sub>pos</sub>

LV 764



## 765,SVM NK cells resting



## 766,KEGG\_DILATED\_CARDIOMYOPATHY

Value

0.10

0.05

0.00

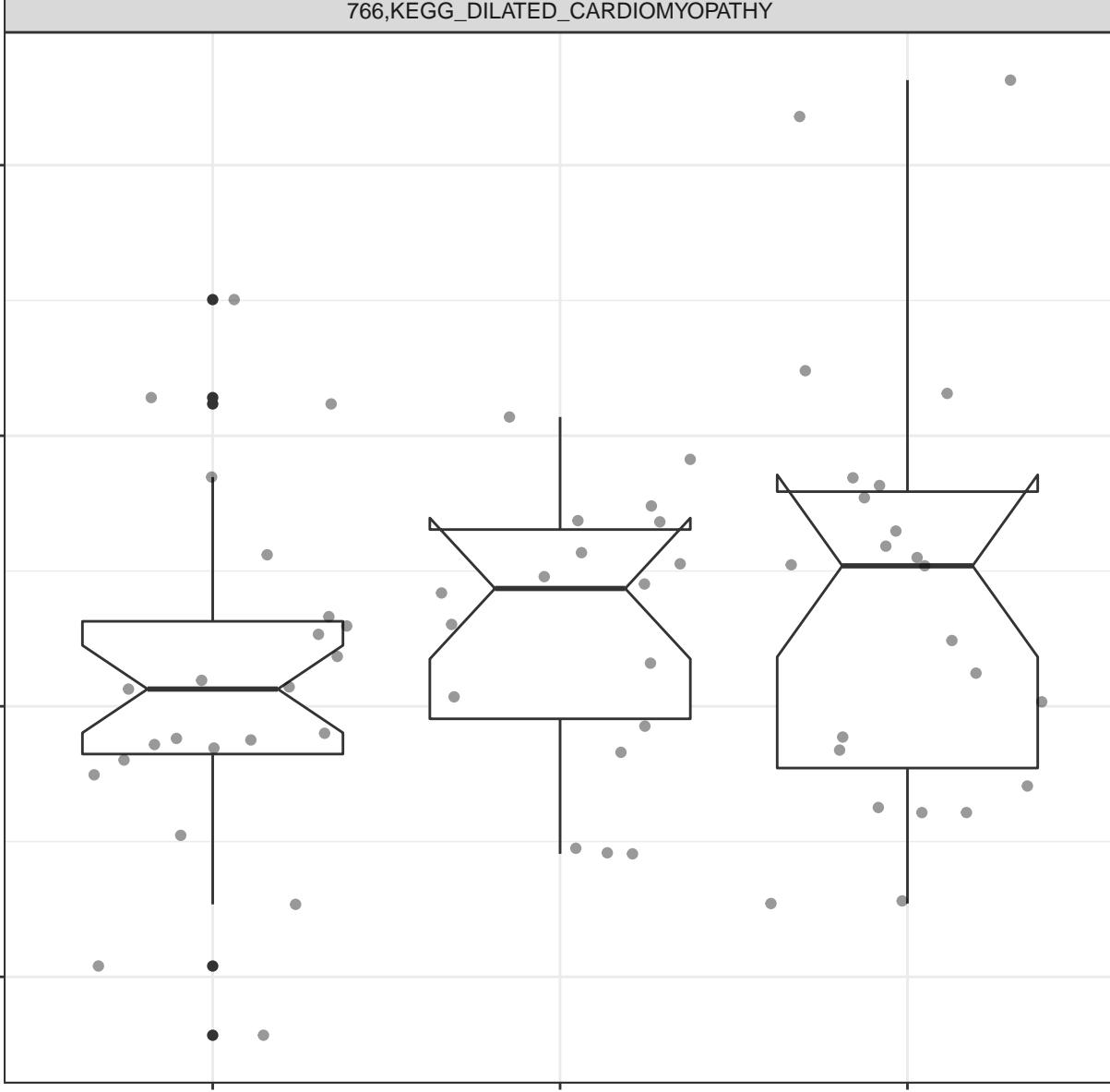
-0.05

Control

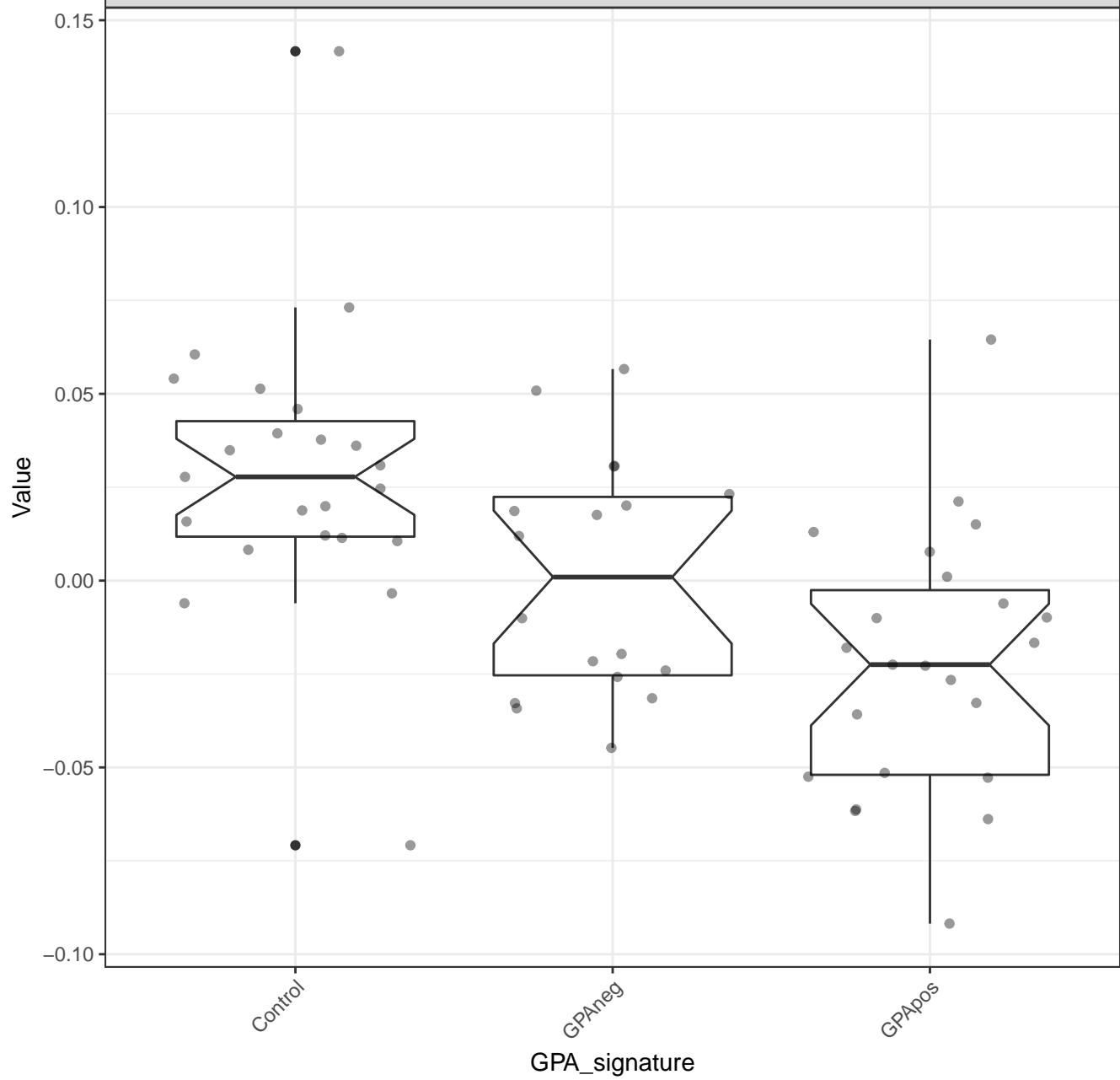
GPA\_signature

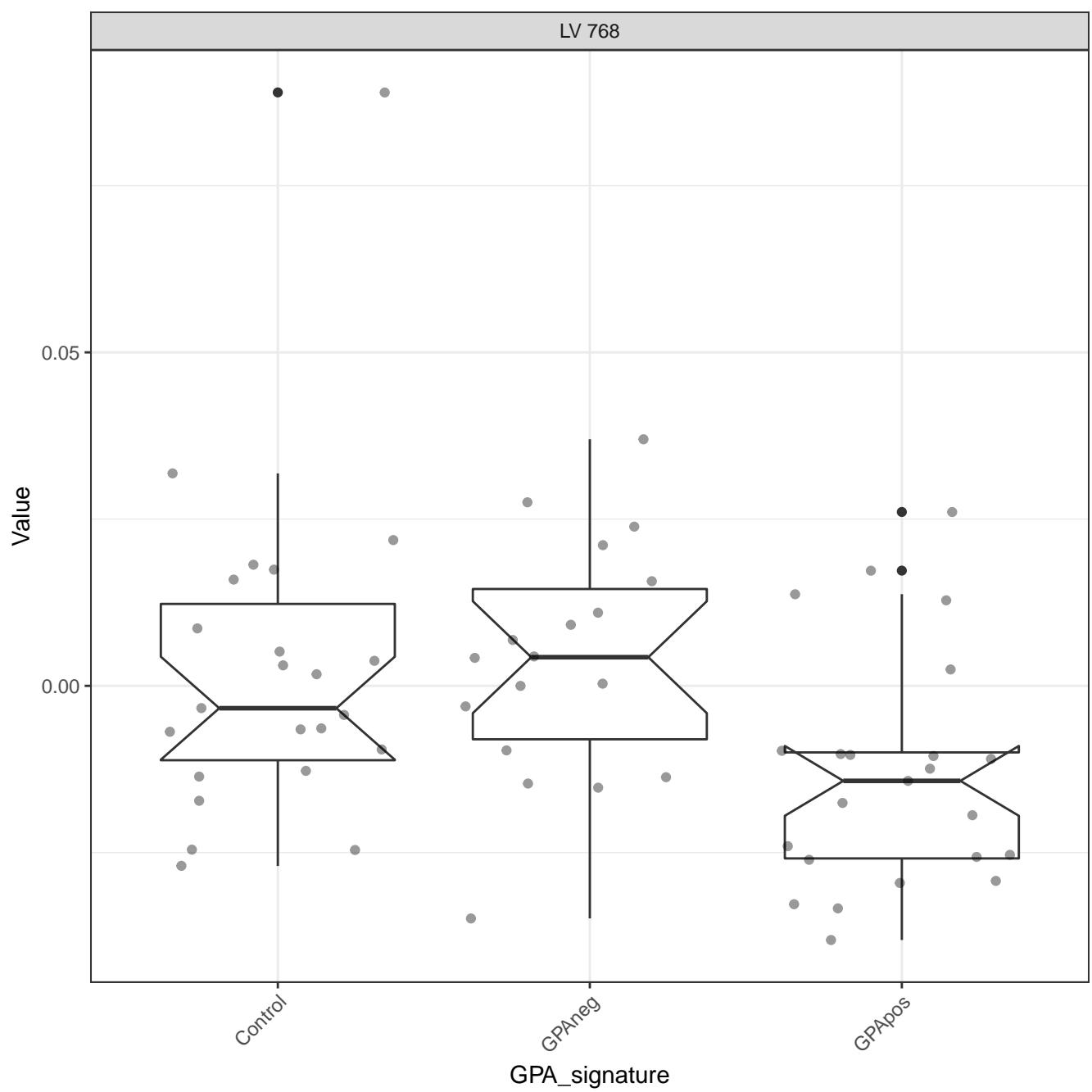
GPAneg

GPApos

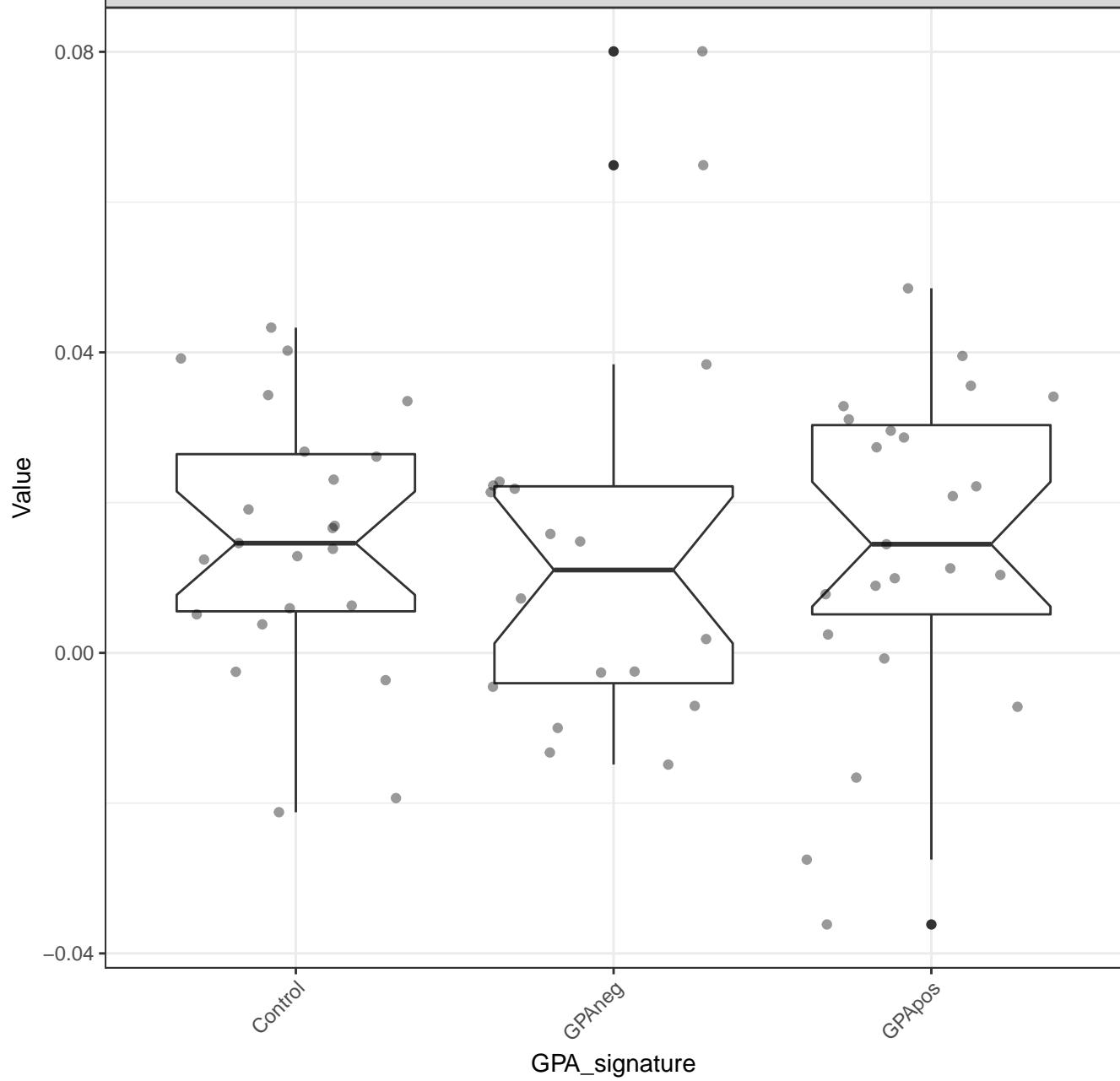


## 767,SVM B cells naive

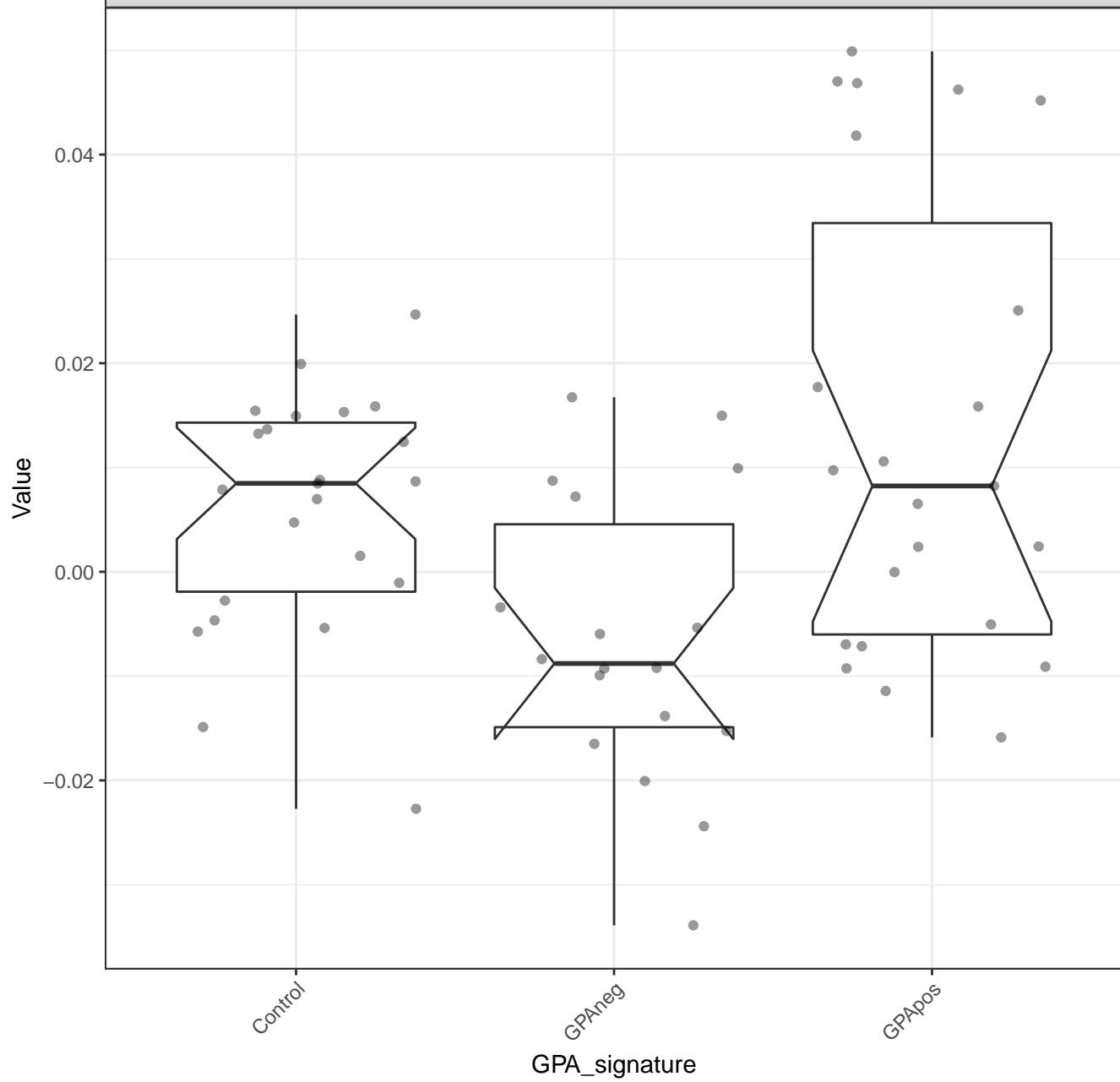




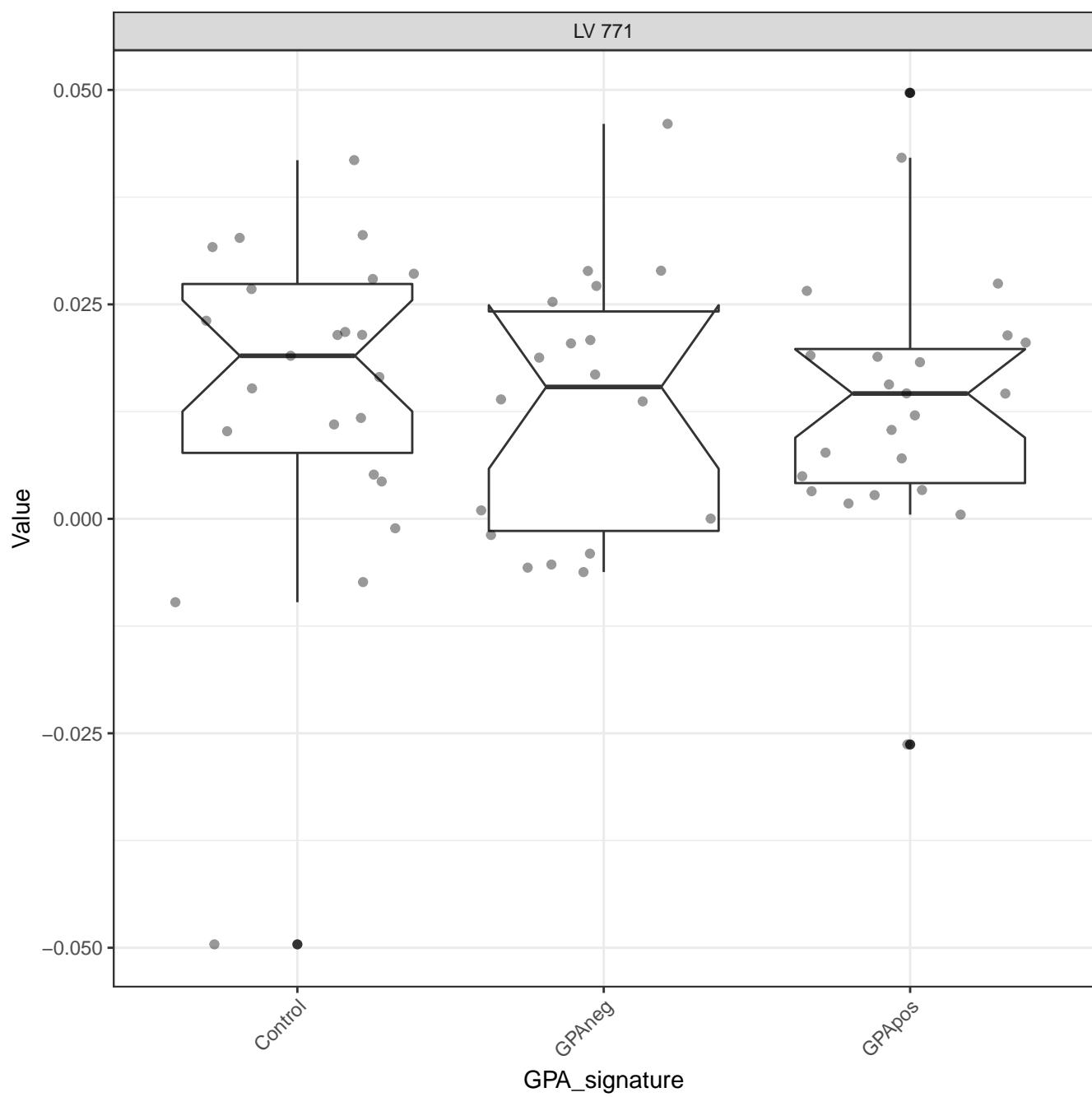
LV 769



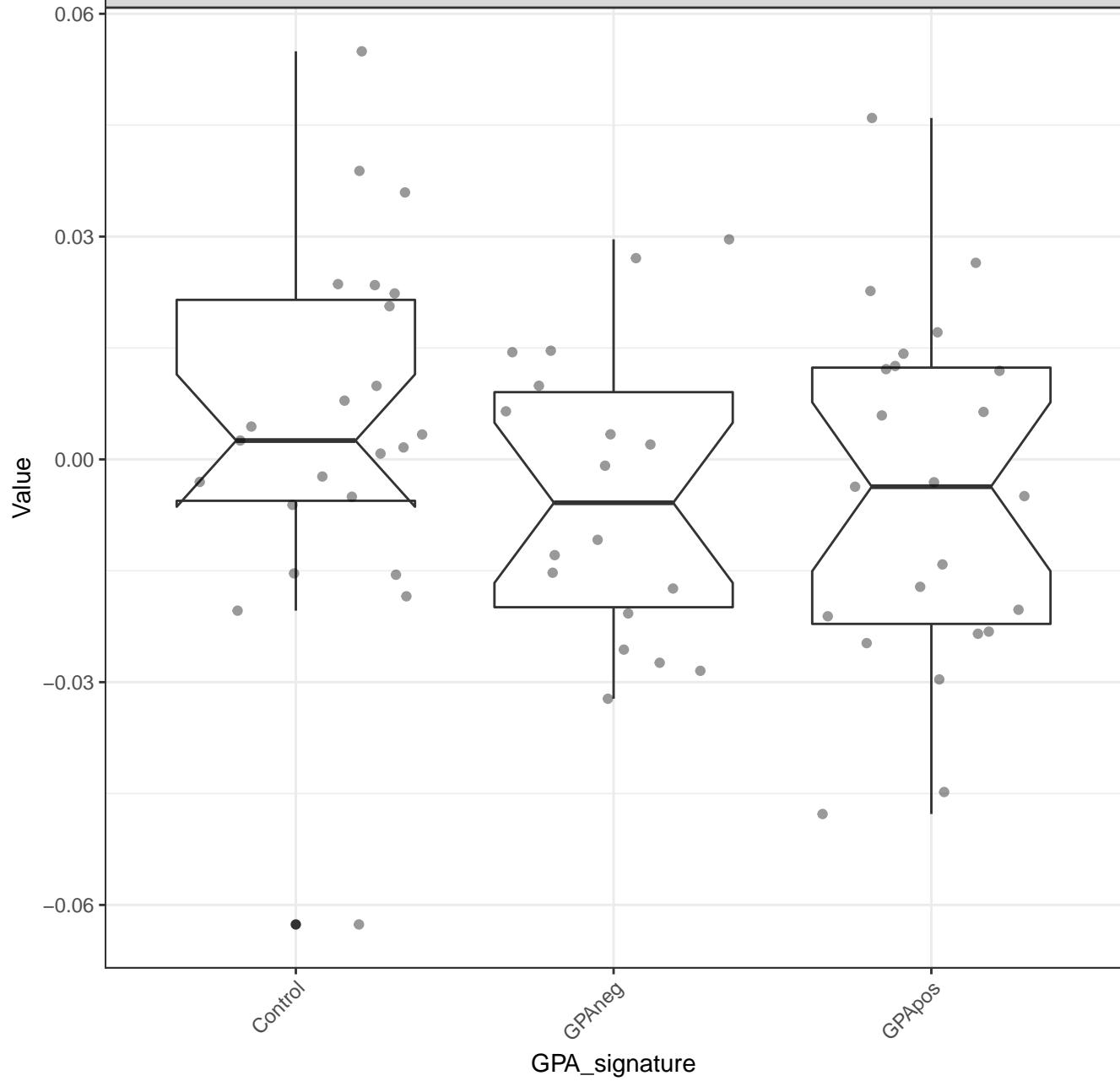
## LV 770

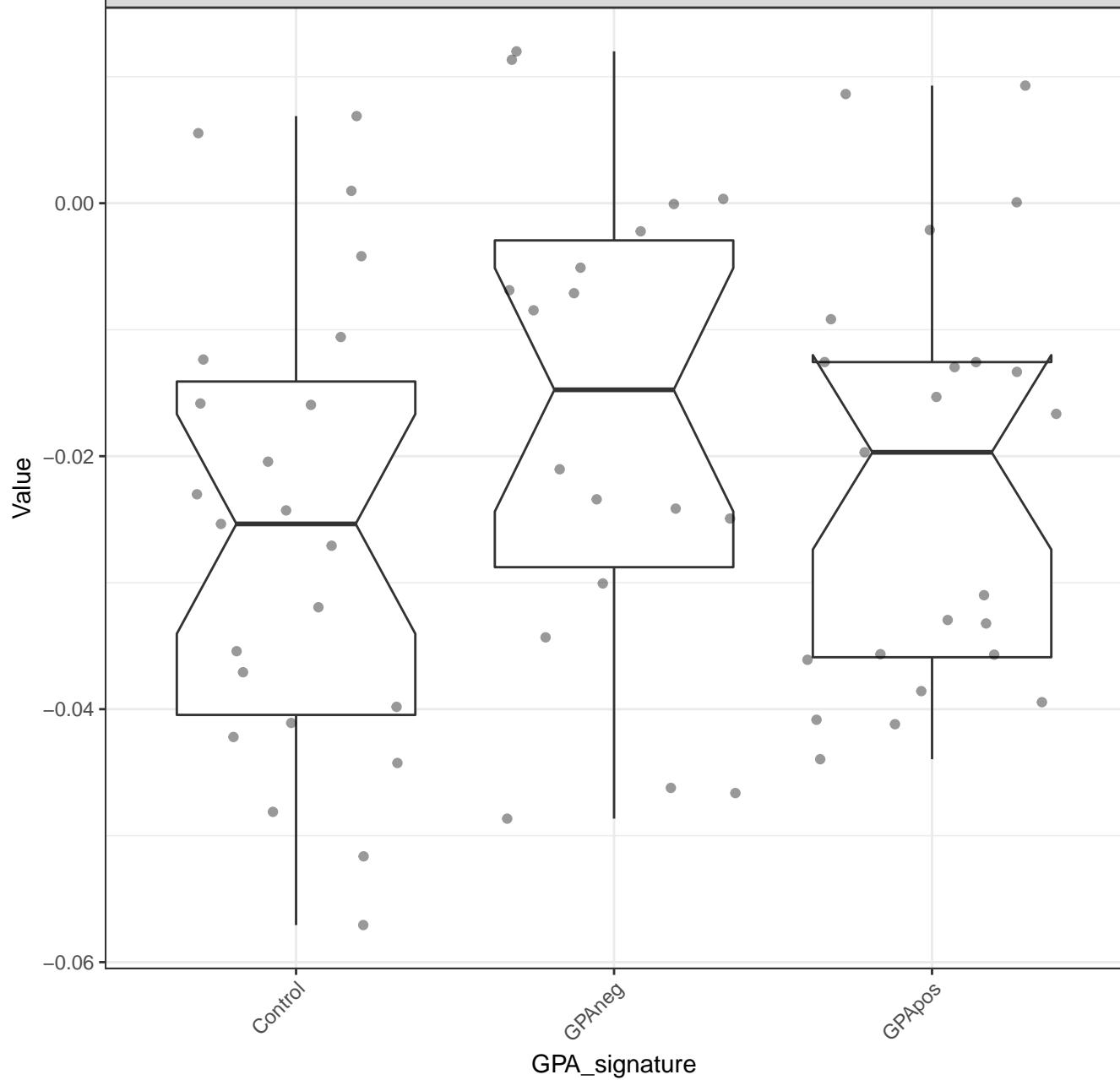


LV 771

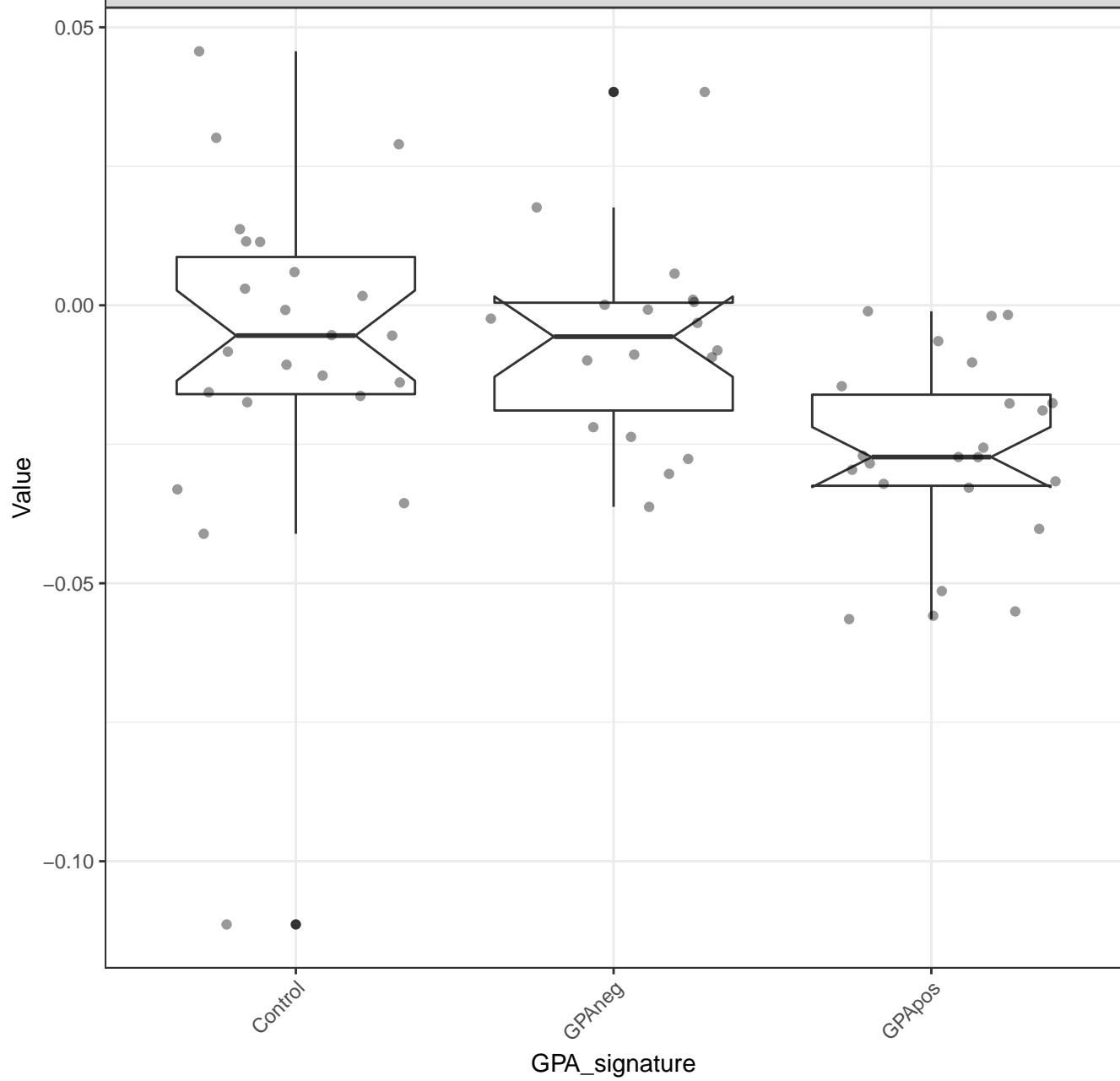


LV 772





LV 774



Value

0.04

0.02

0.00

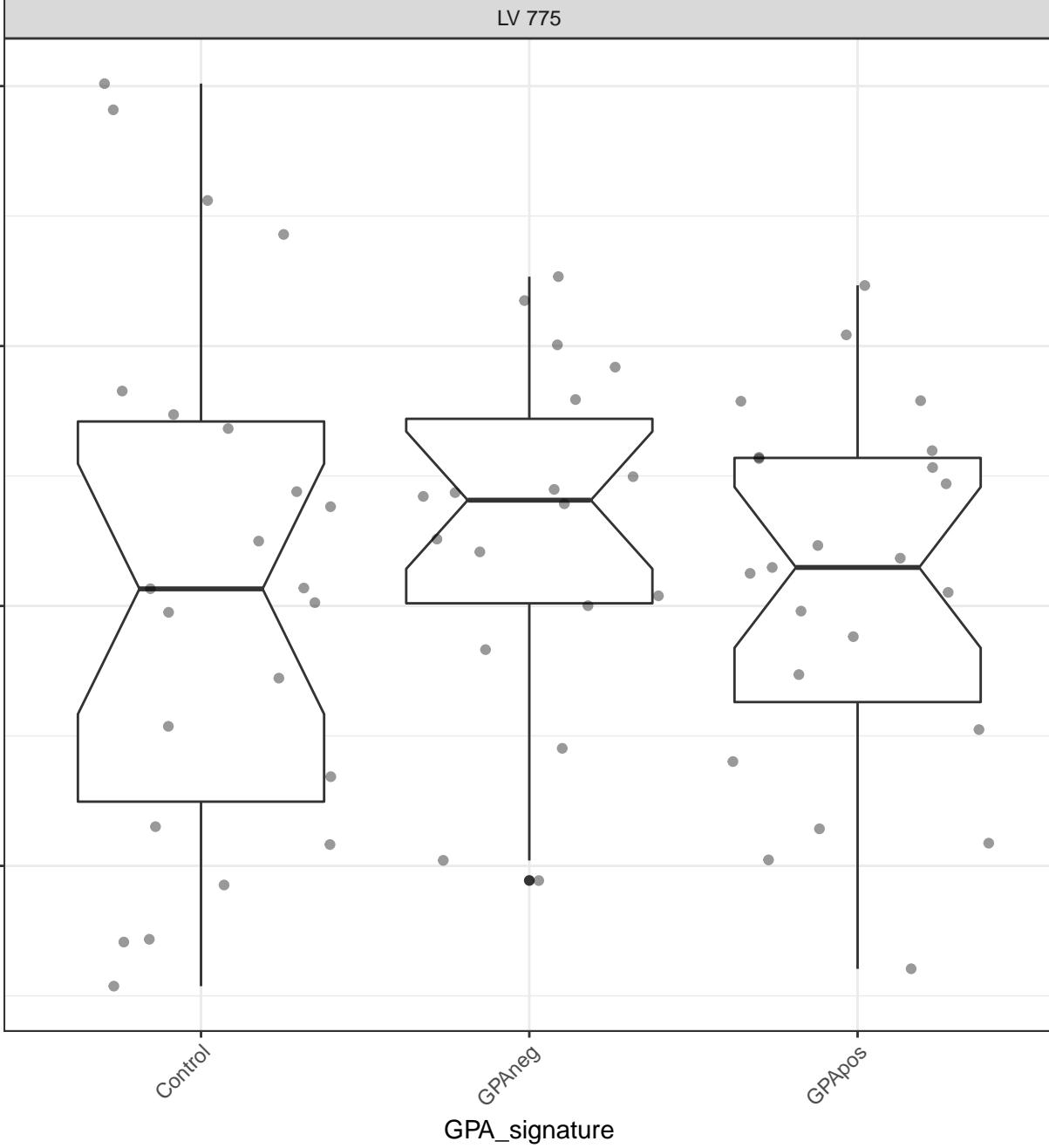
-0.02

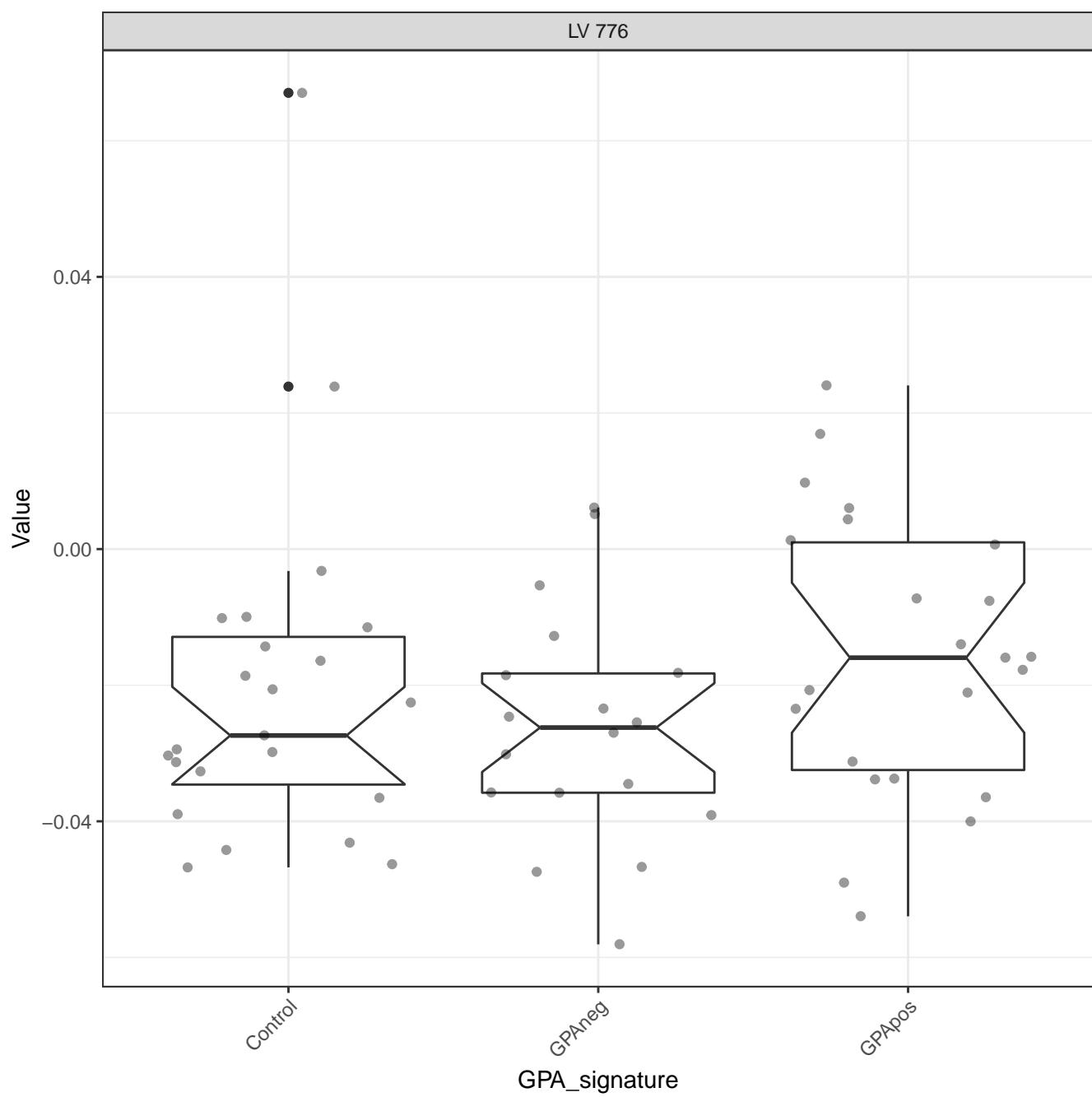
Control

GPAneg

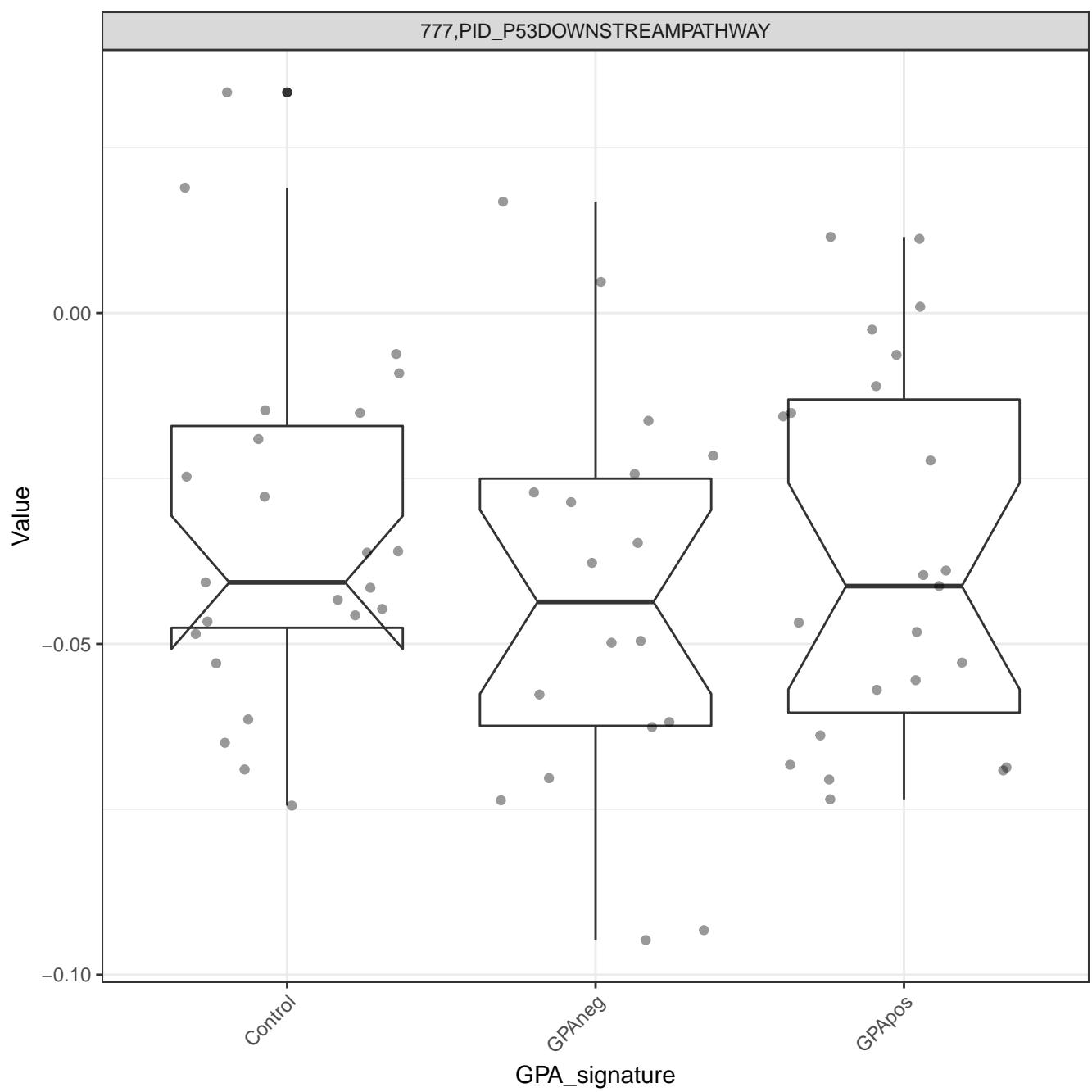
GPApos

GPA\_signature





## 777,PID\_P53DOWNSTREAMPATHWAY



LV 778

Value

0.10

0.05

0.00

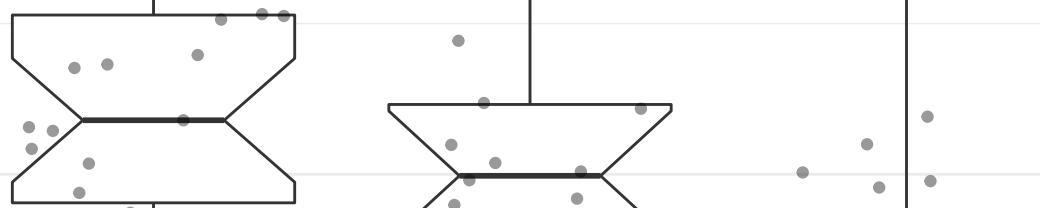
-0.05

Control

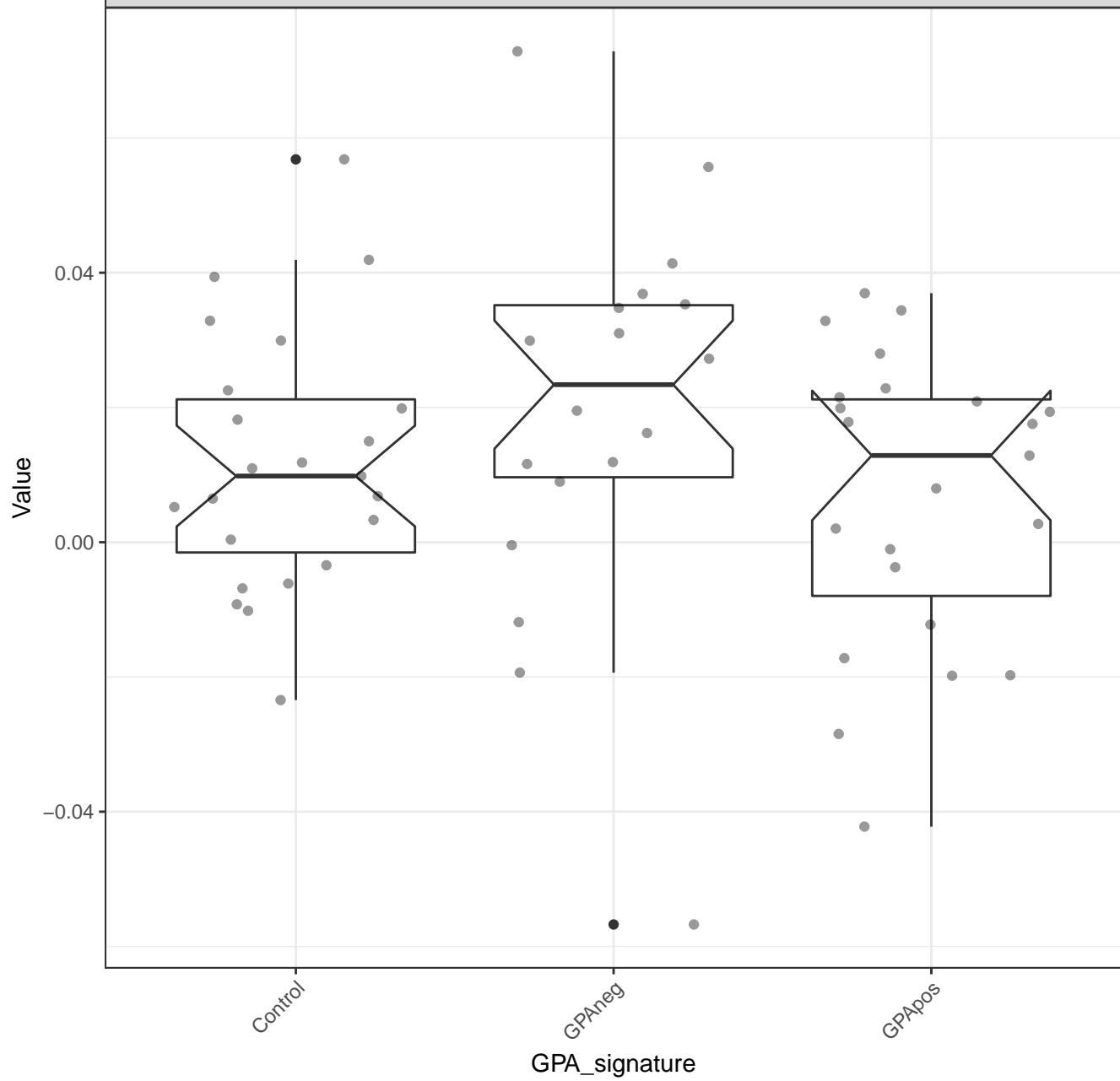
GPAneg

GPAPos

GPA\_signature



LV 779



Value

0.02

0.00

-0.02

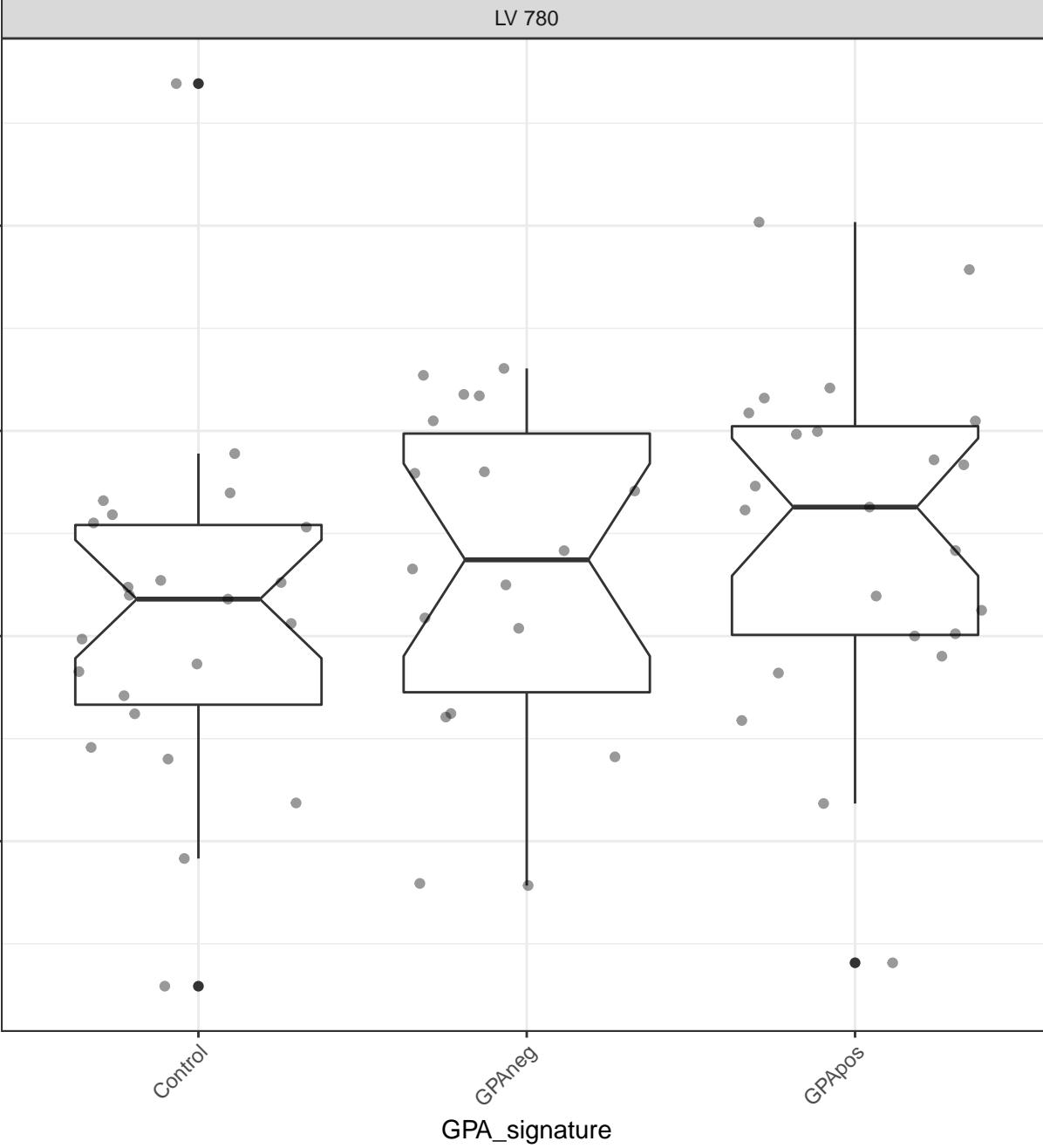
-0.04

Control

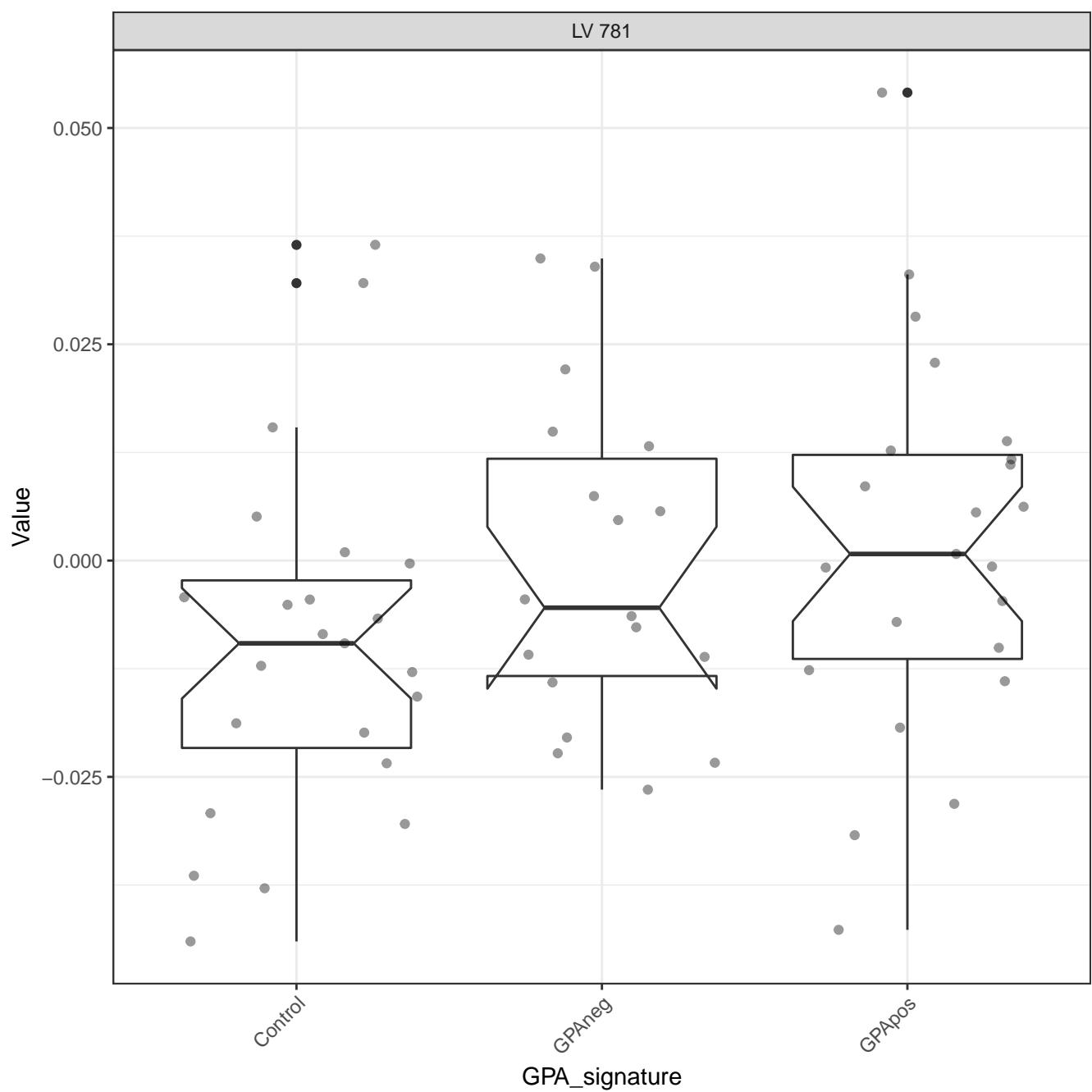
GPAneg

GPAPos

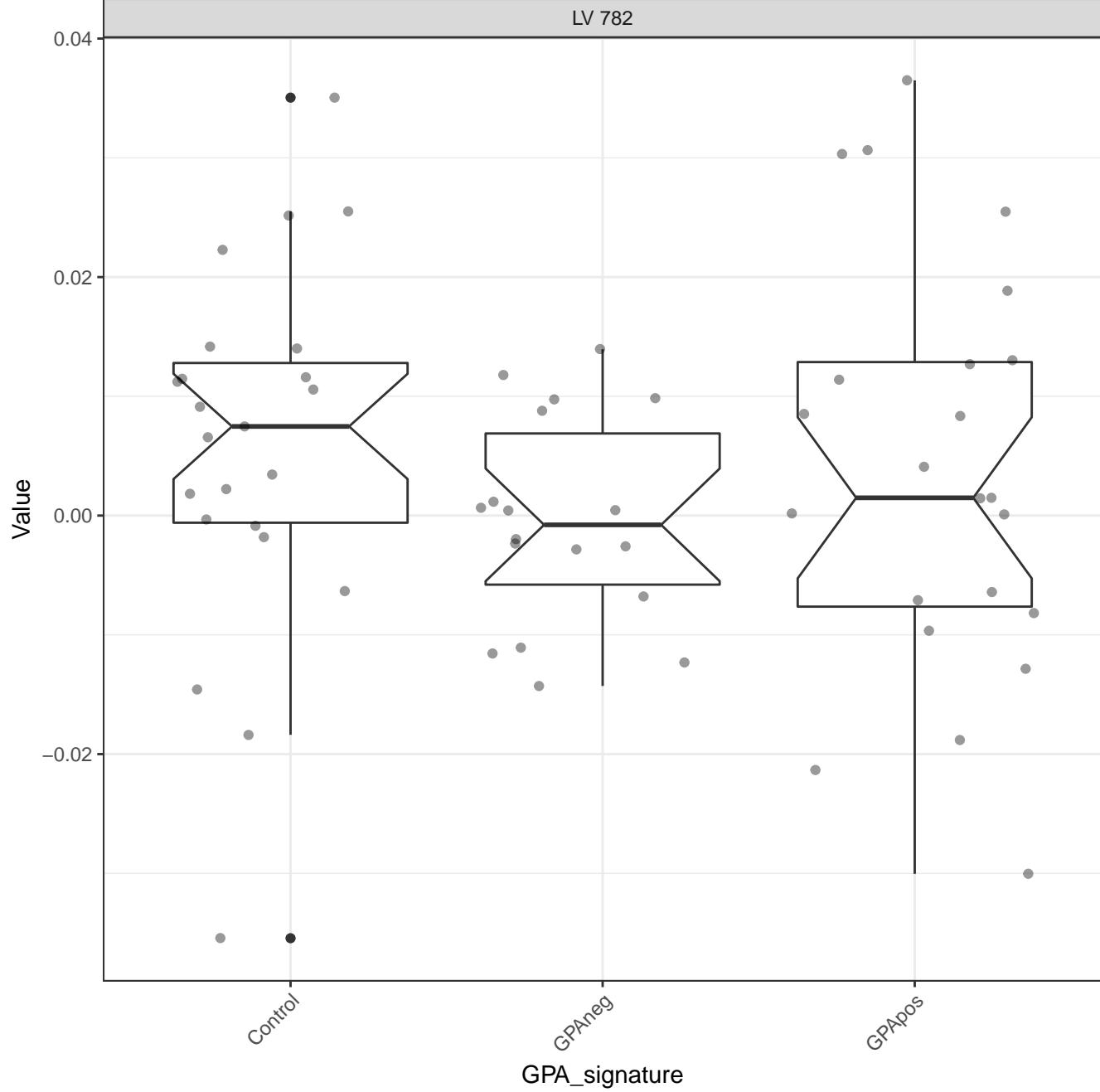
GPA\_signature

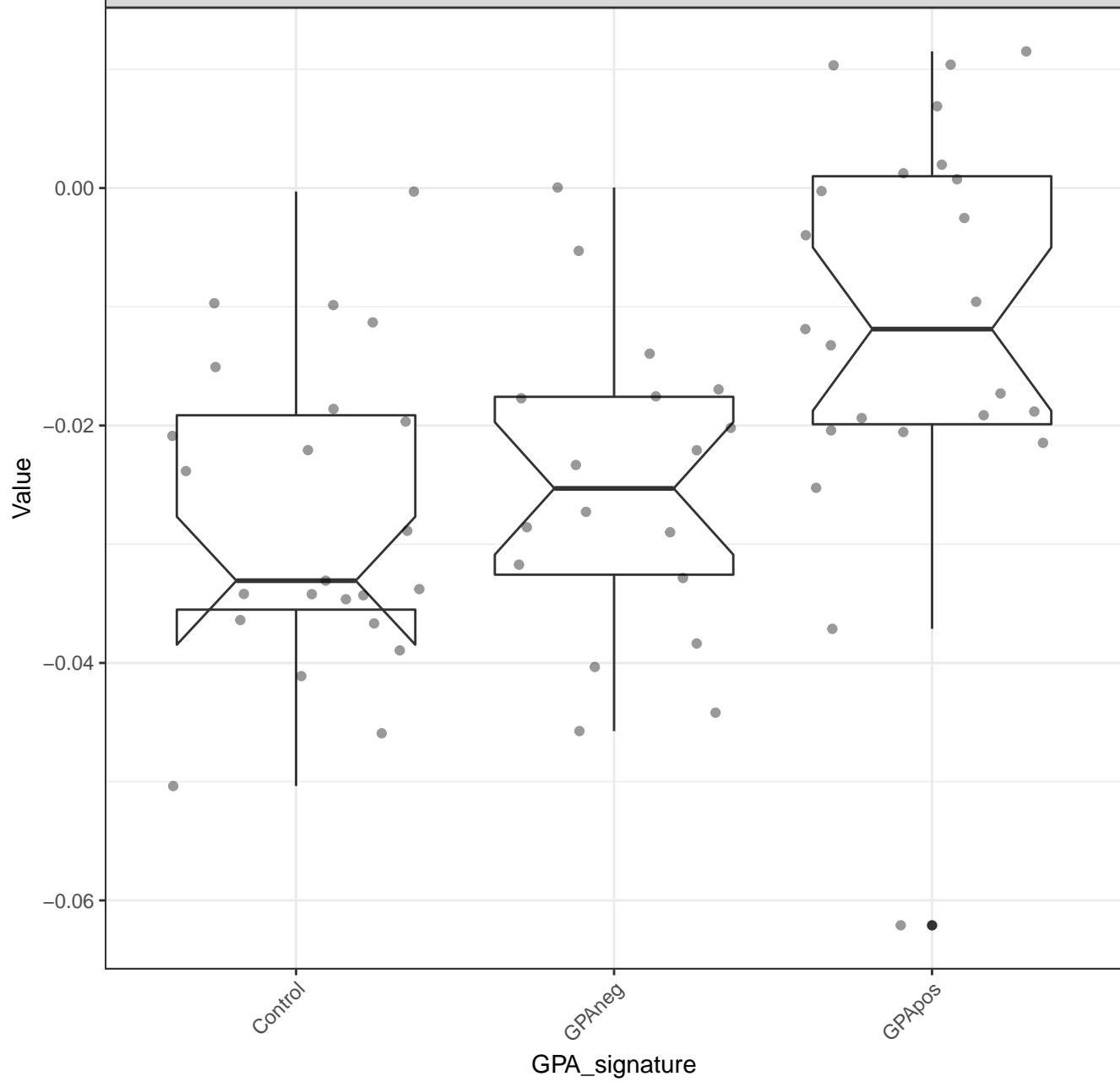


## LV 781

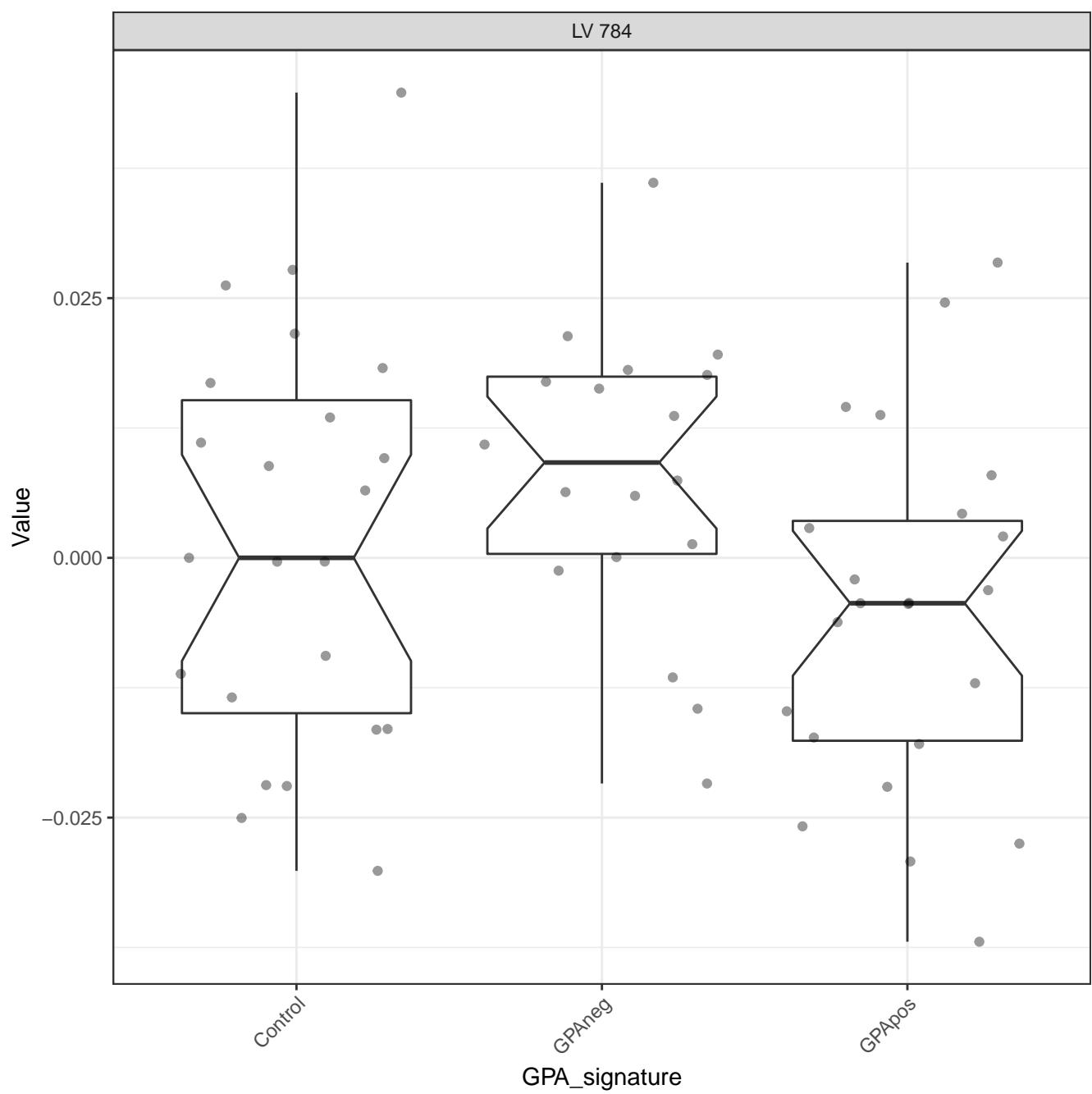


LV 782





## LV 784



LV 785

Value

0.025

0.000

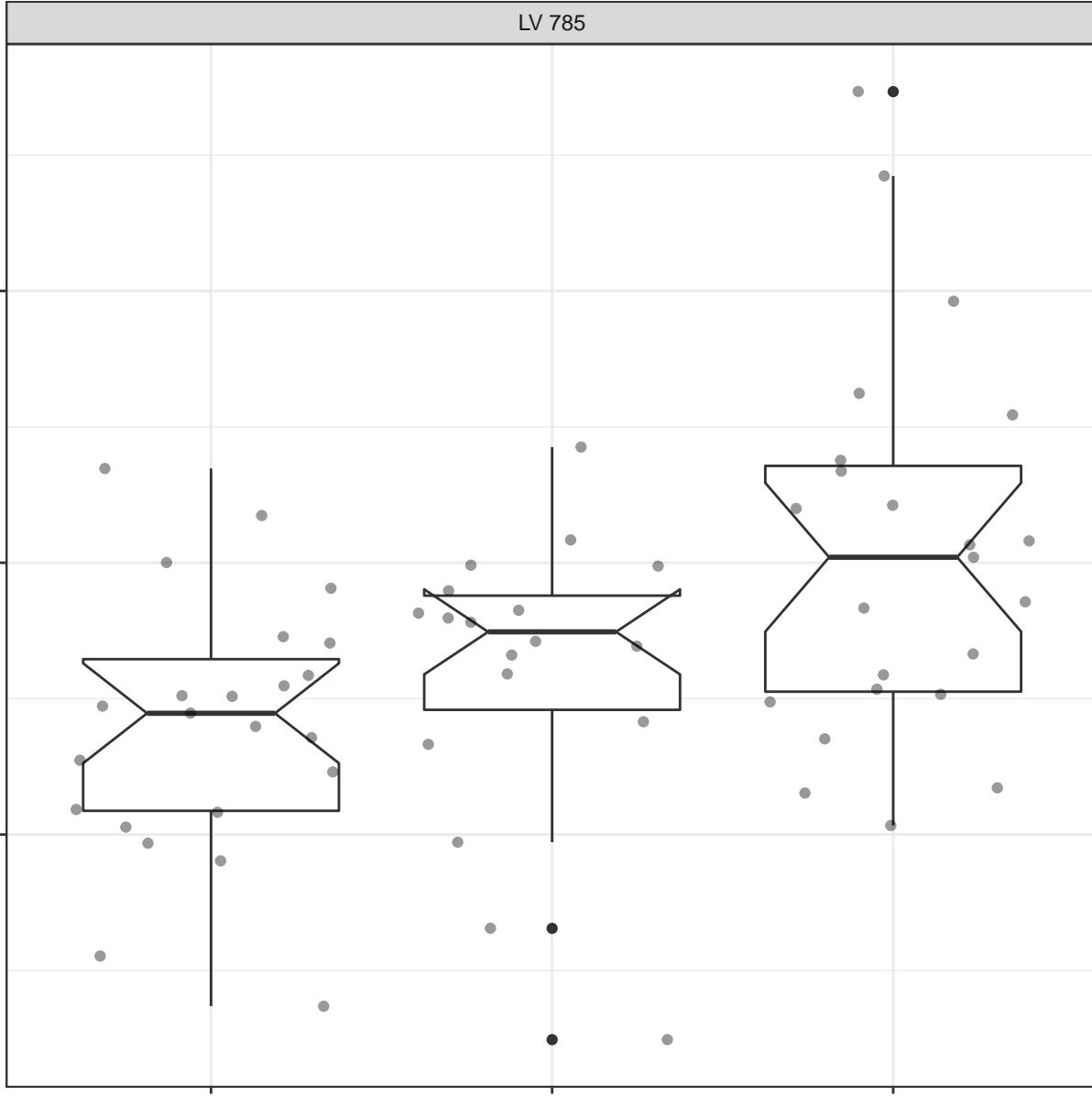
-0.025

Control

GPA\_signature

GPAneg

GPAPos



LV 786

Value

0.04

0.02

0.00

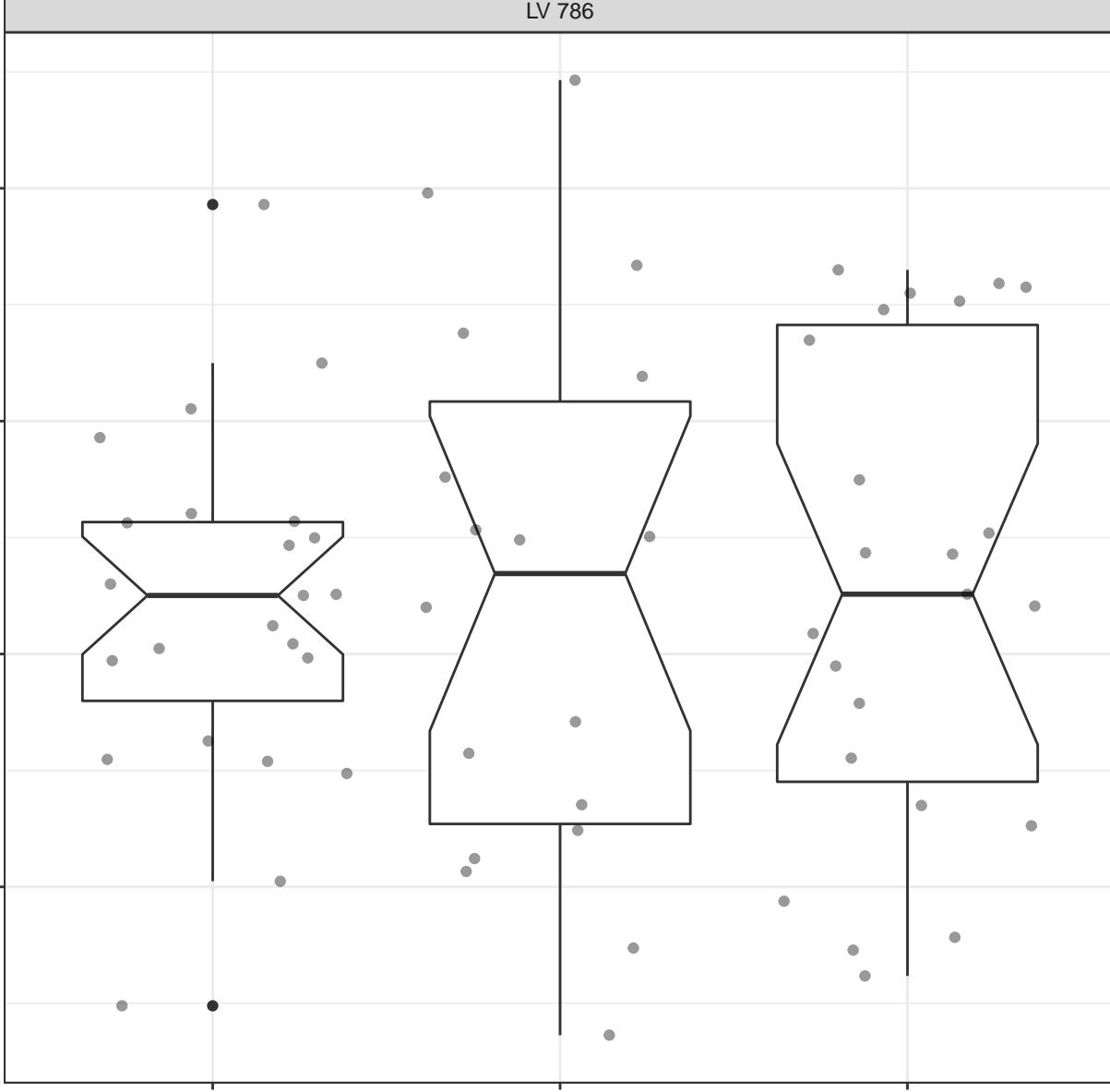
-0.02

Control

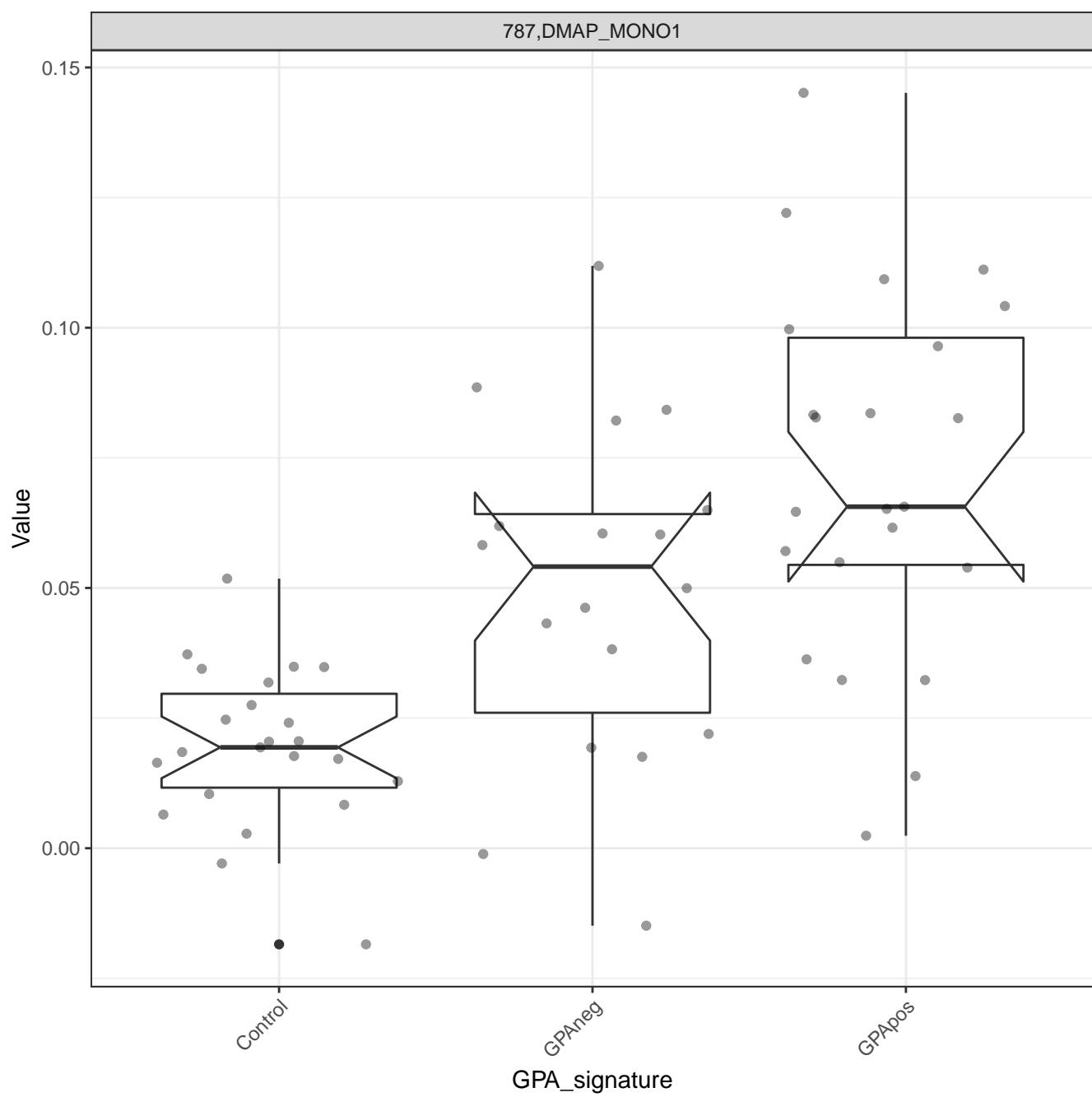
GPA\_signature

GPAneg

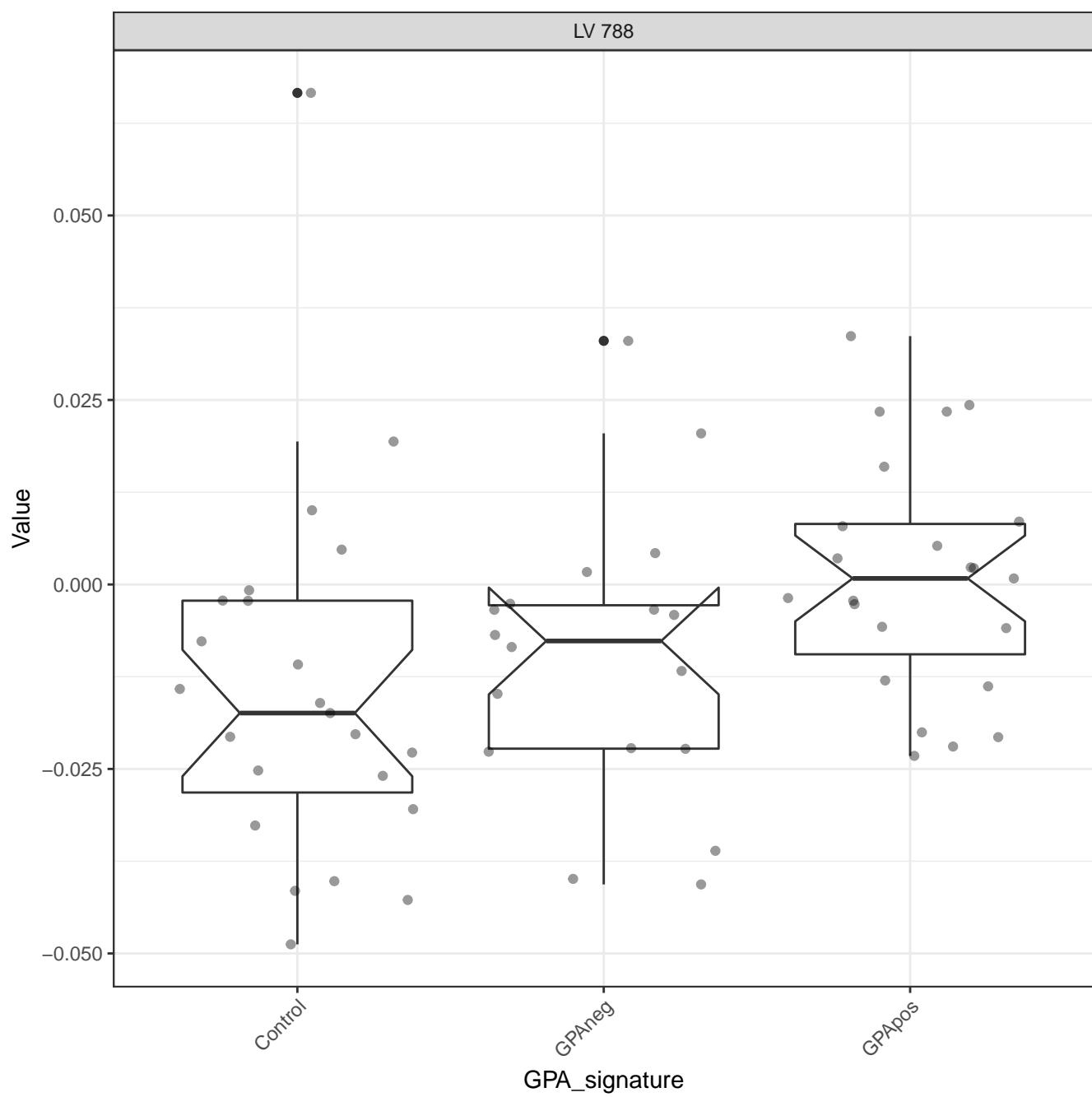
GPApos



## 787,DMAP\_MONO1



## LV 788



LV 789

Value

0.06

0.03

0.00

-0.03

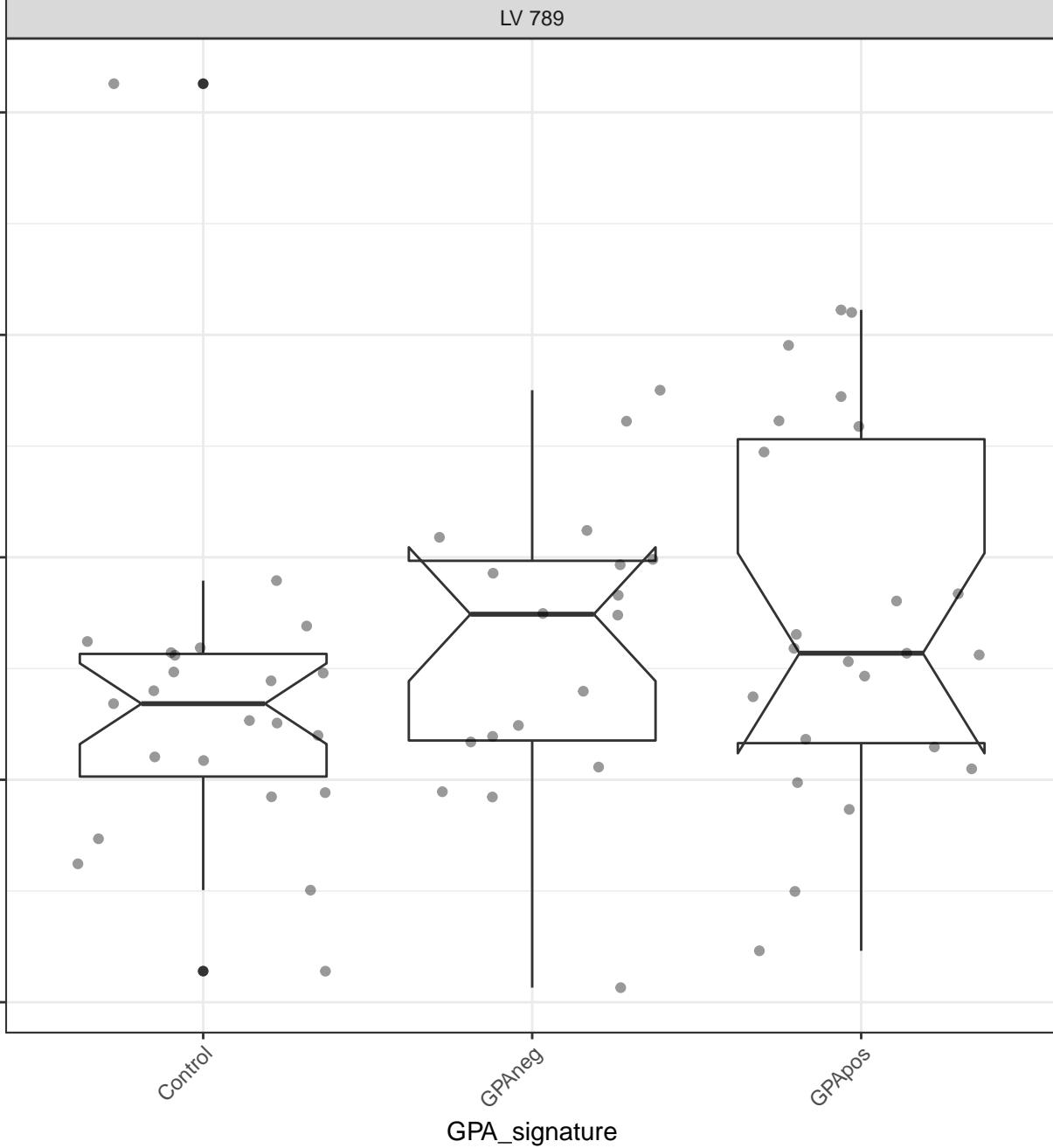
-0.06

Control

GPA\_signature

GPAneg

GPApos



LV 790

Value

0.10

0.05

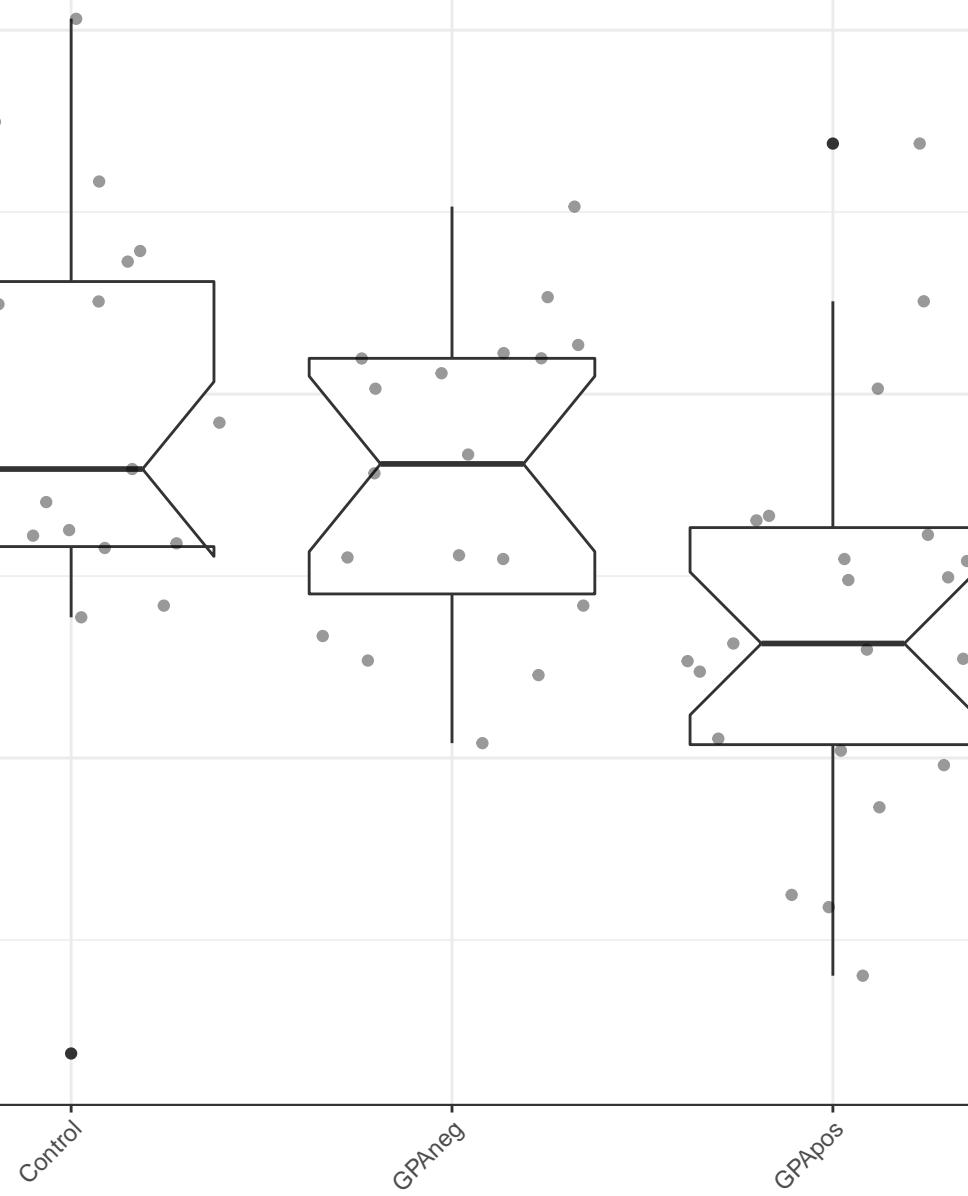
0.00

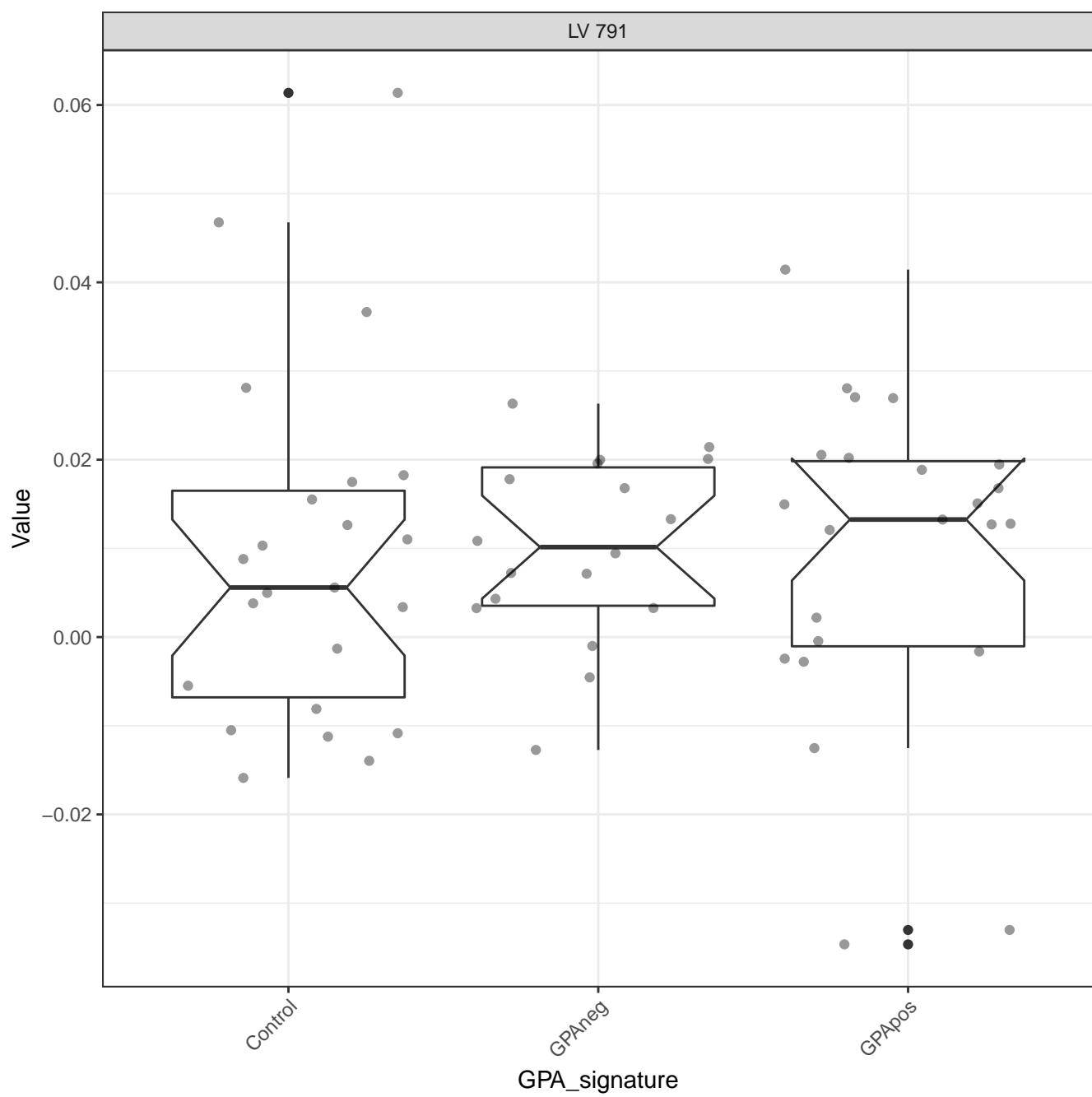
Control

GPA\_signature

GPAneg

GPAPos





LV 792

Value

0.05

0.00

-0.05

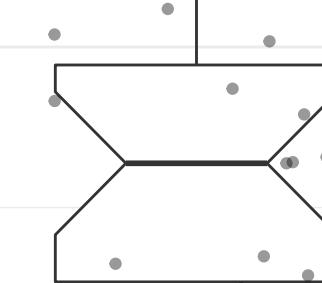
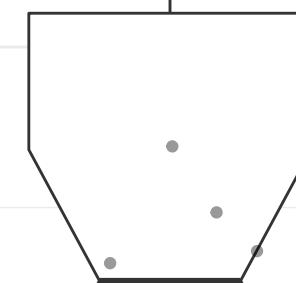
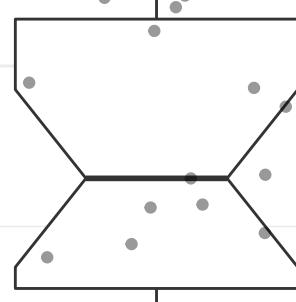
-0.10

Control

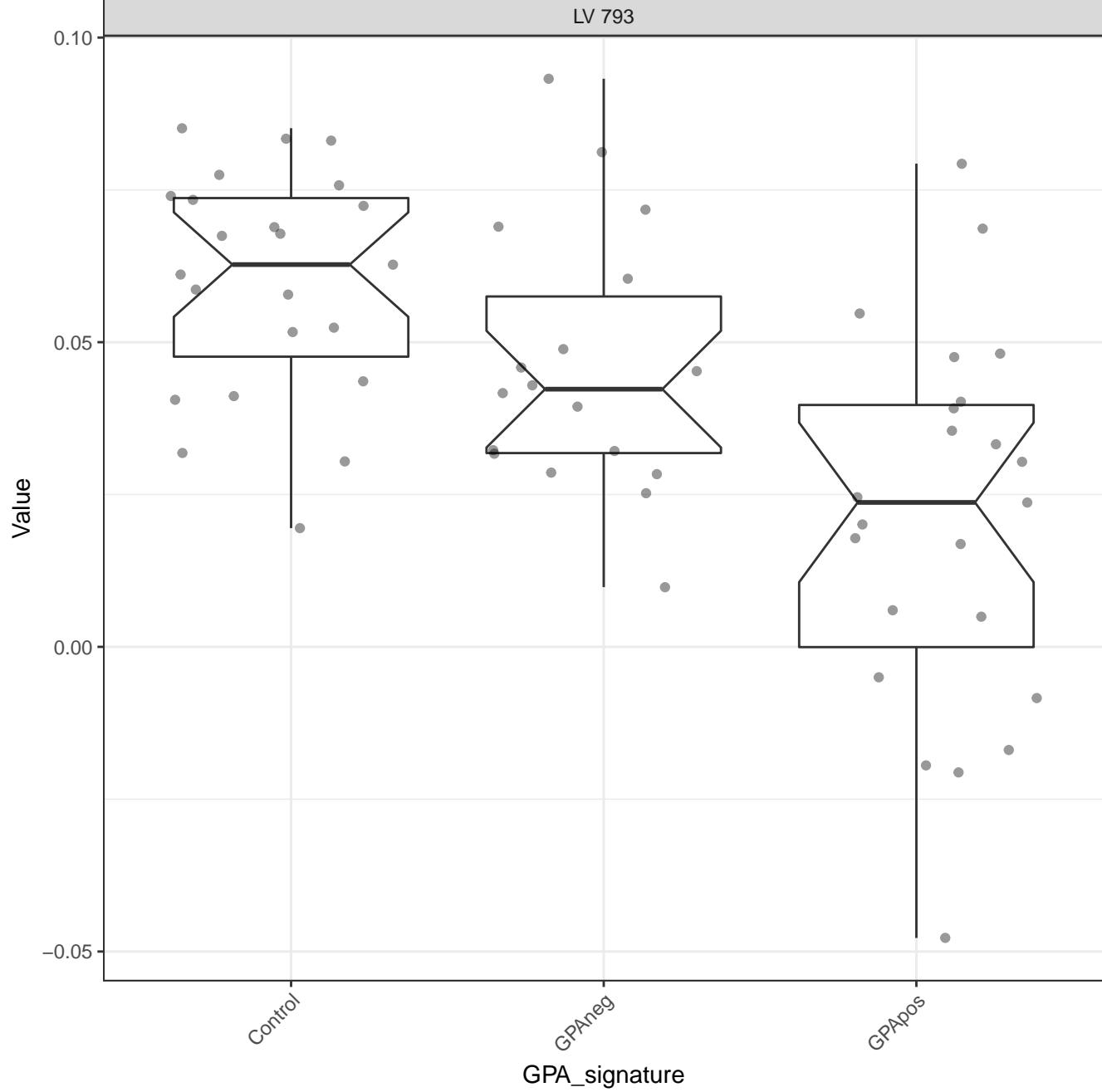
GPAneg

GPAPos

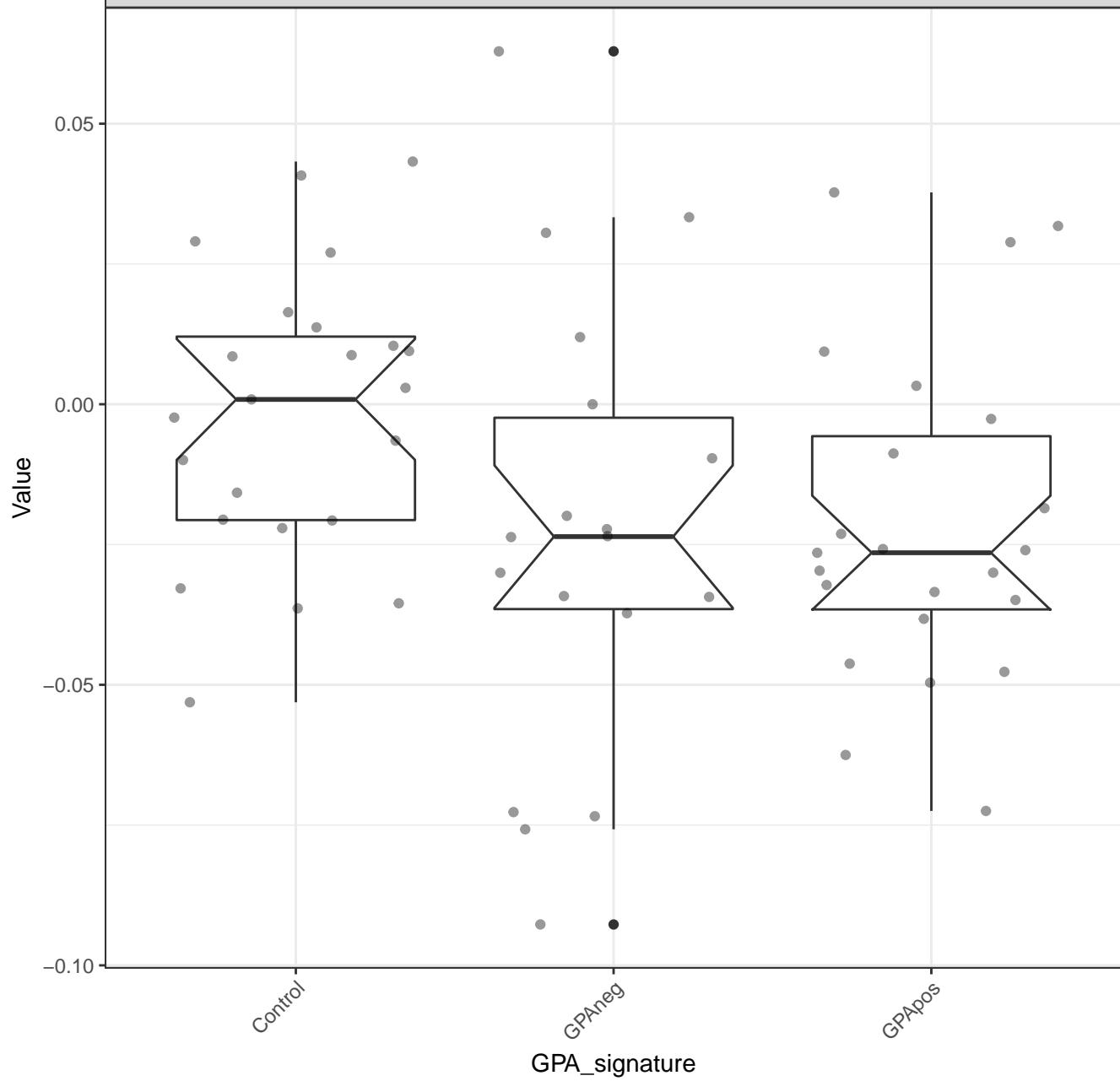
GPA\_signature



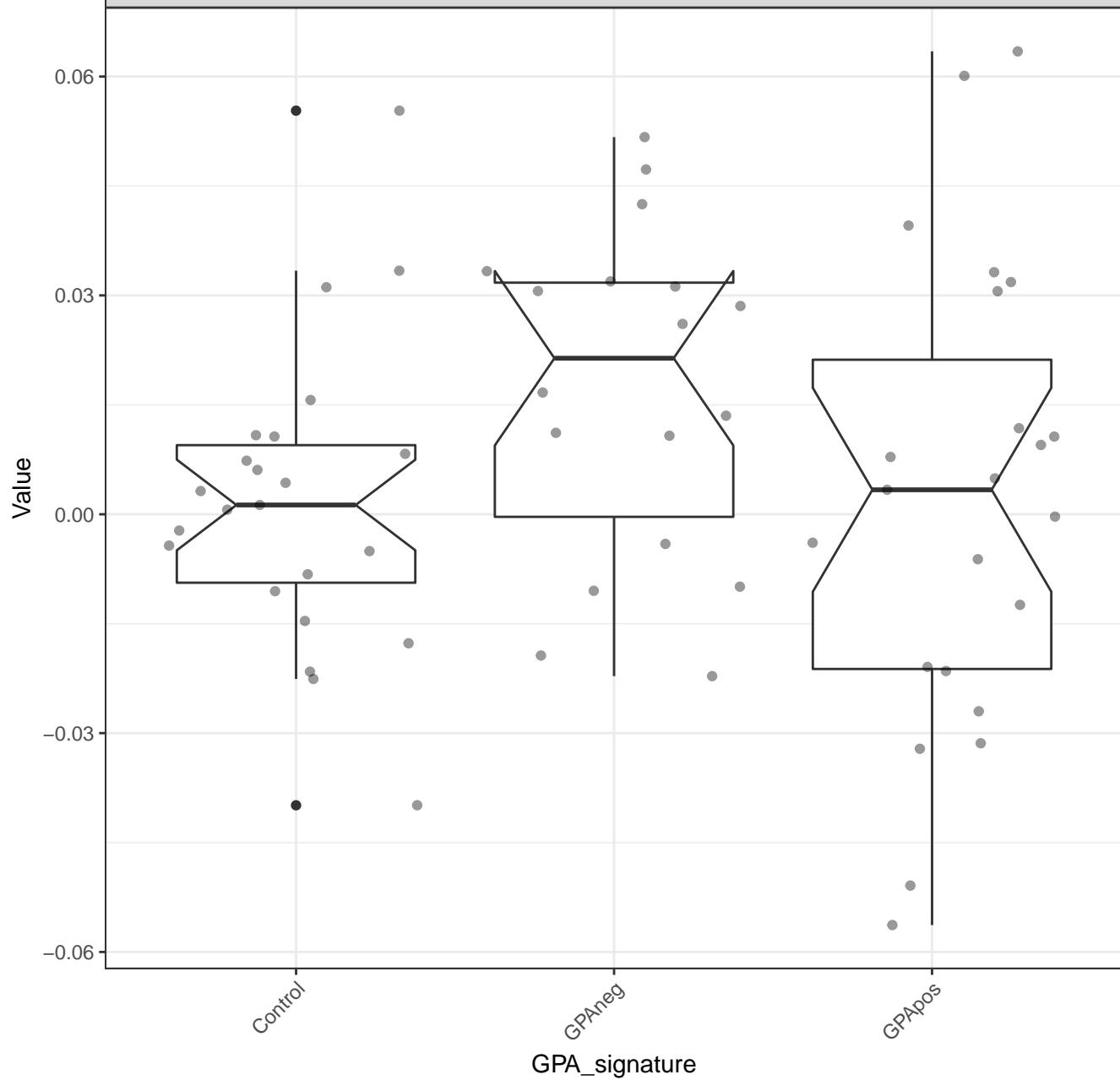
LV 793



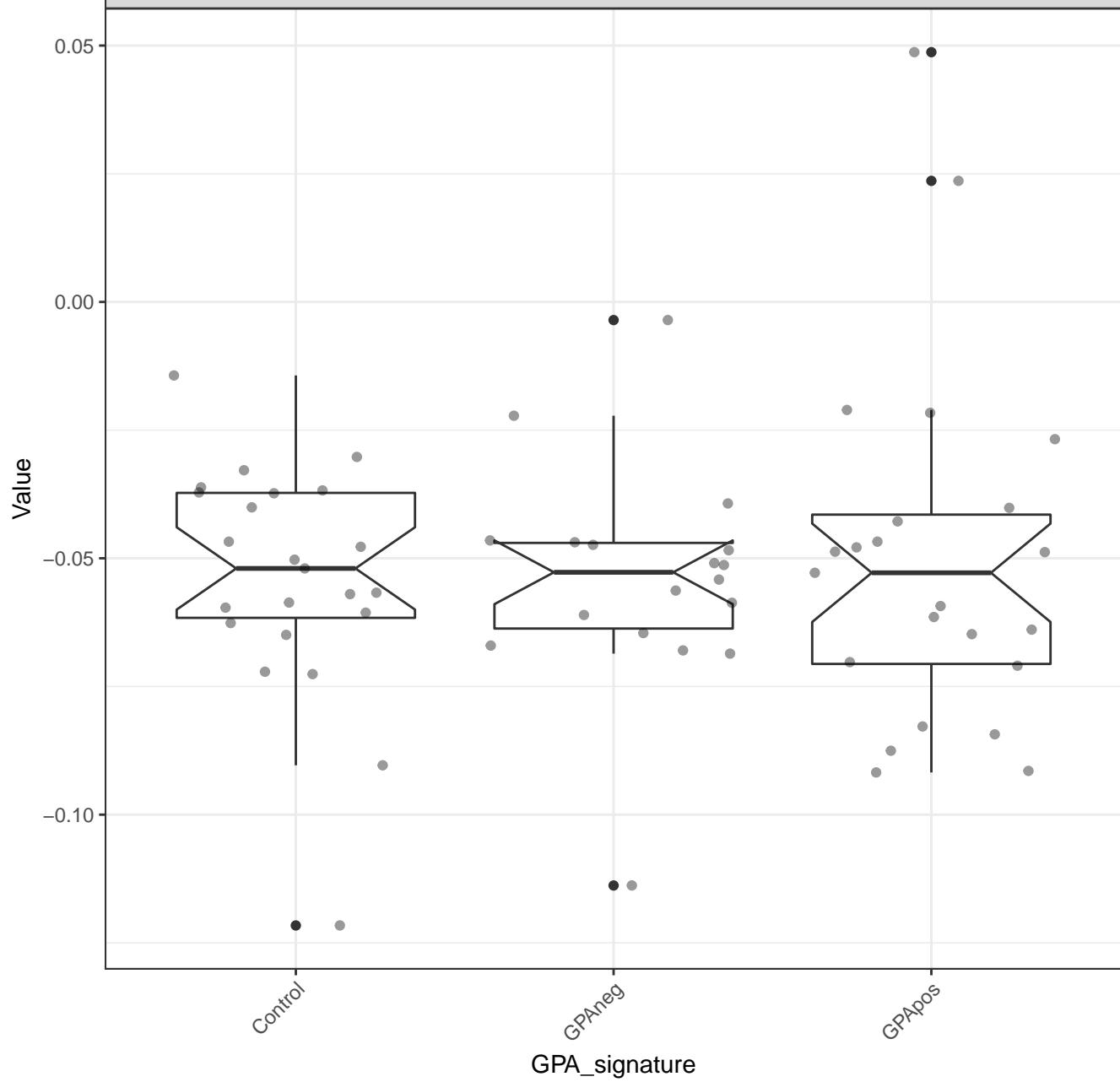
LV 794

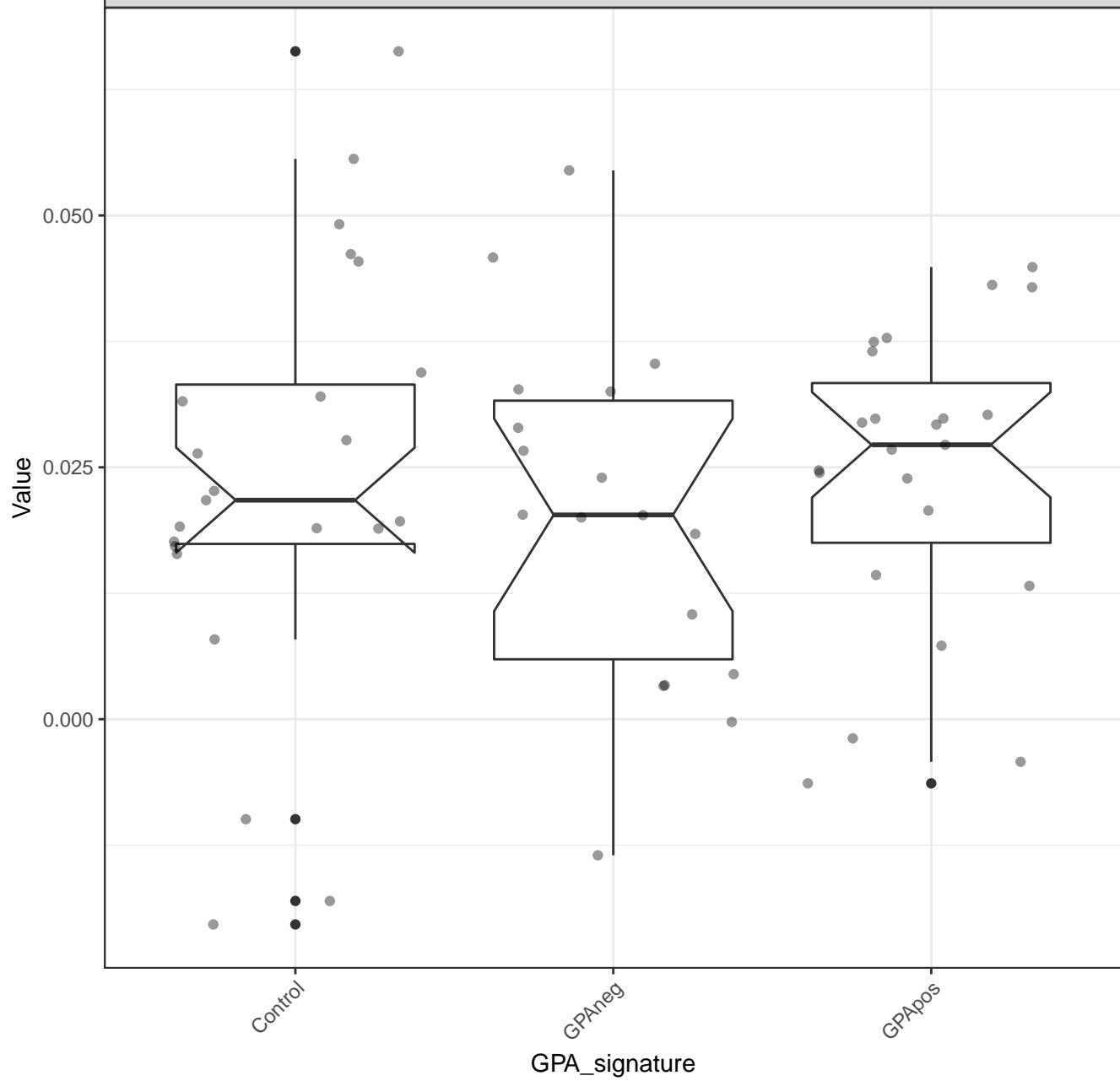


LV 795



LV 796





LV 798

Value

0.050

0.025

0.000

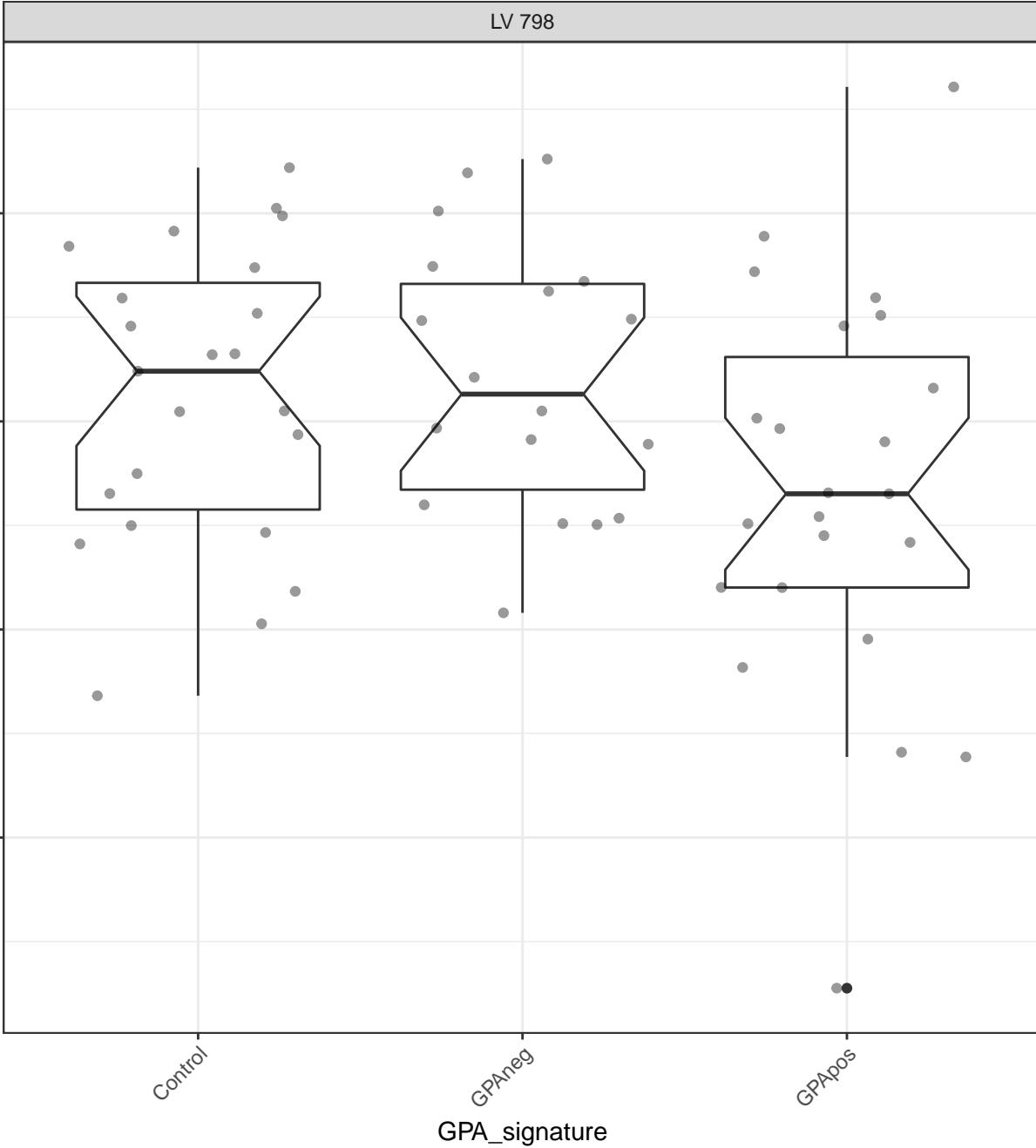
-0.025

Control

GPAneg

GPAPos

GPA\_signature



LV 799

Value

0.10

0.05

0.00

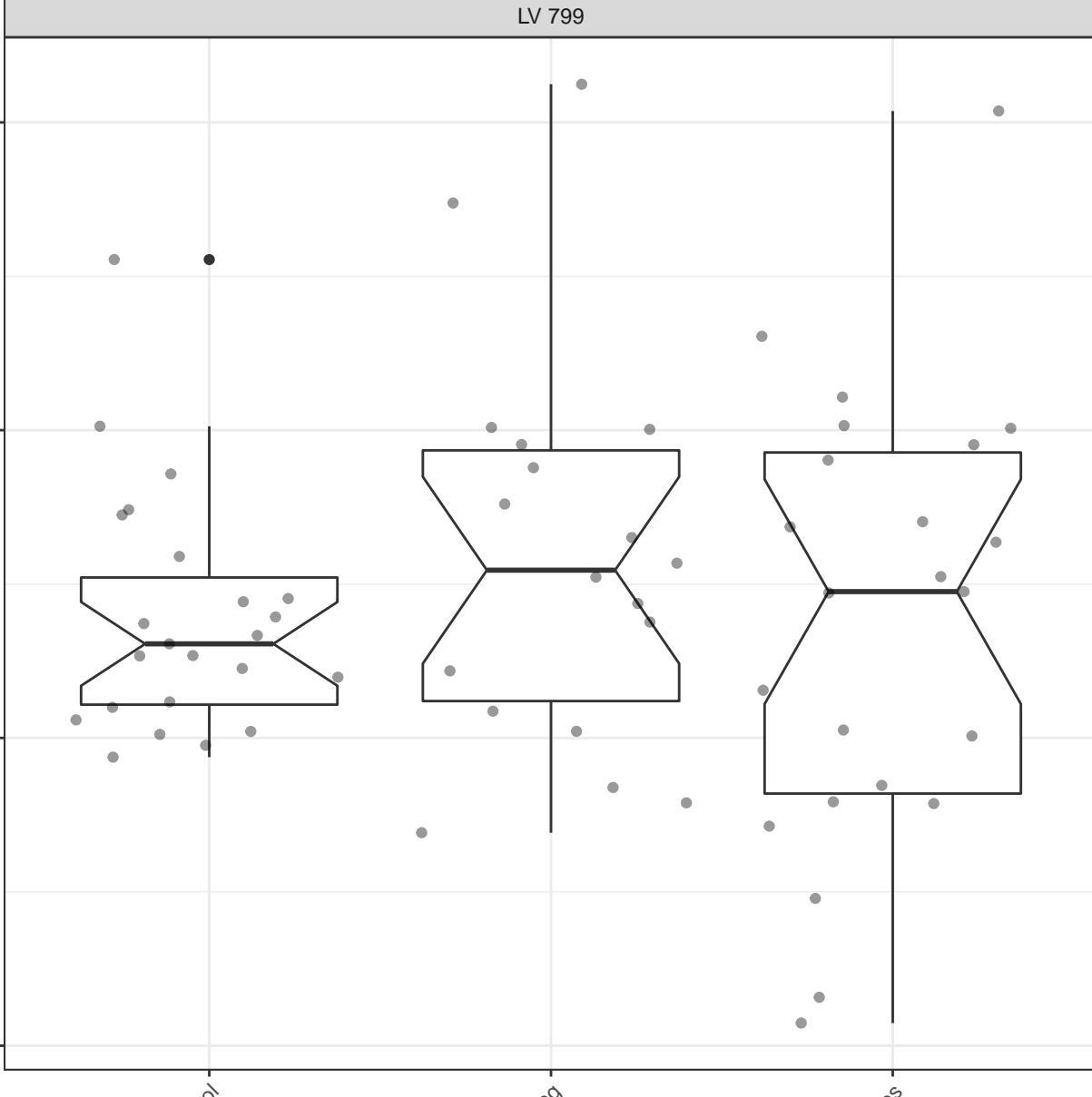
-0.05

Control

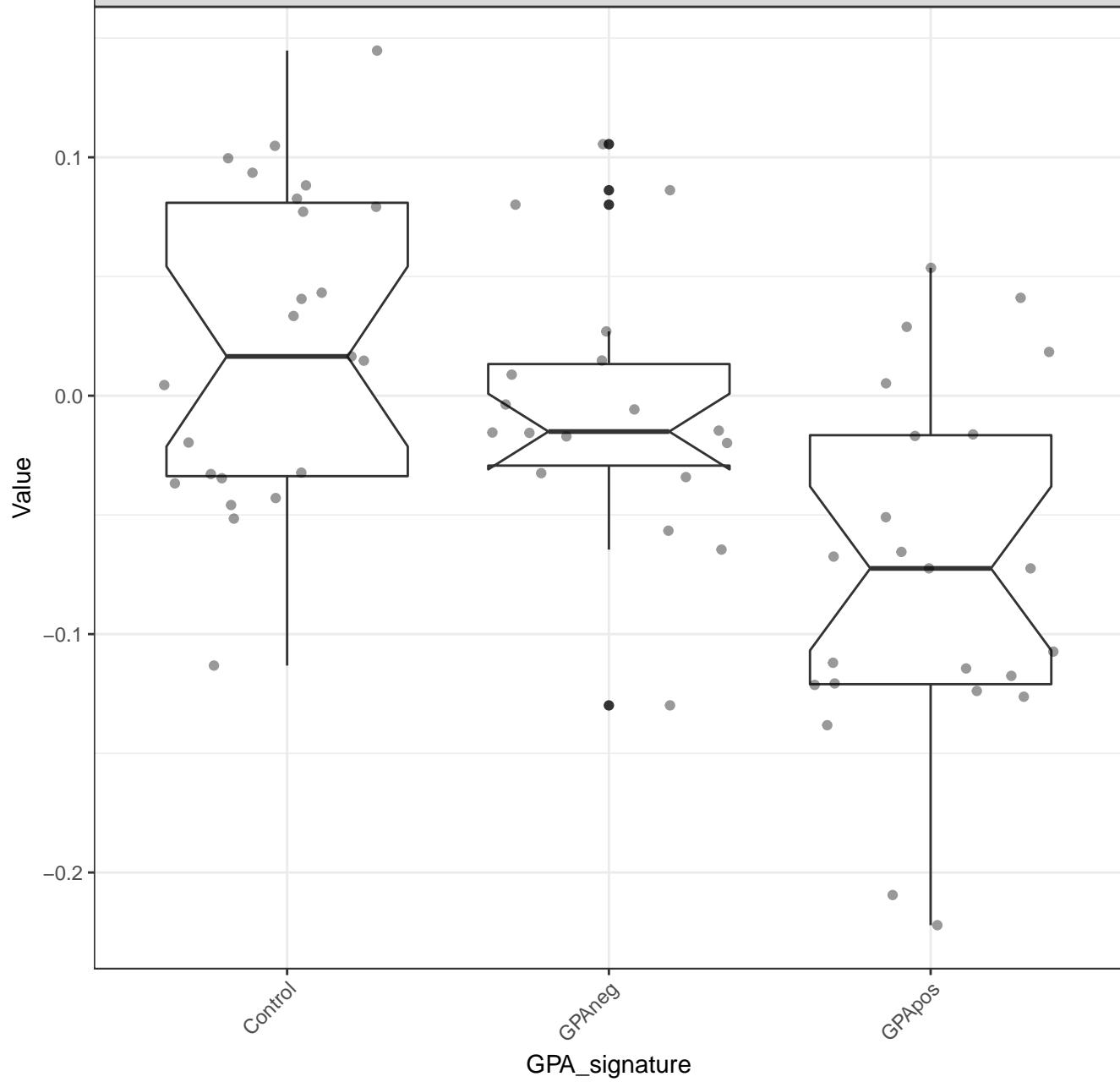
GPA\_signature

GPAneg

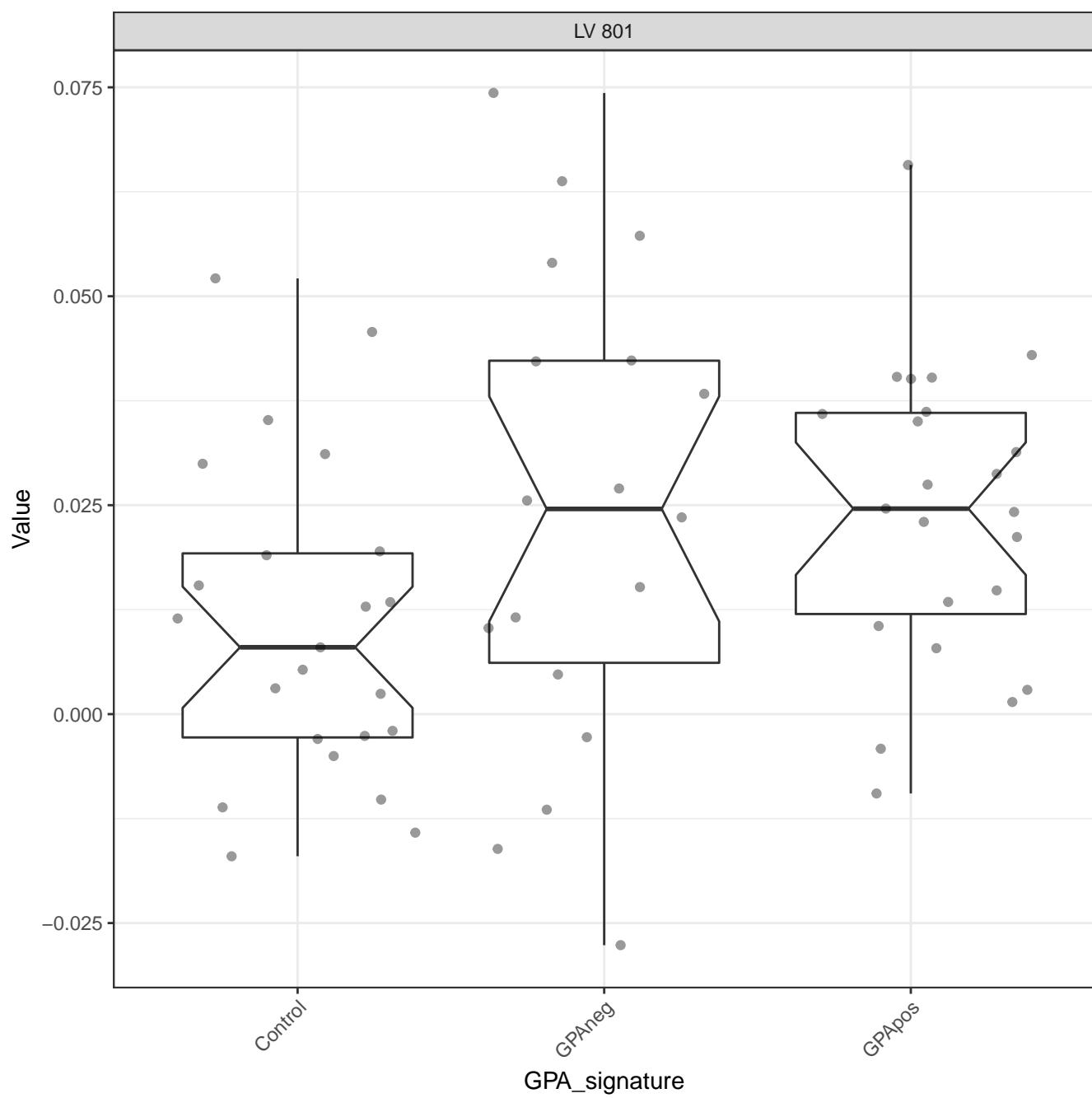
GPAPos



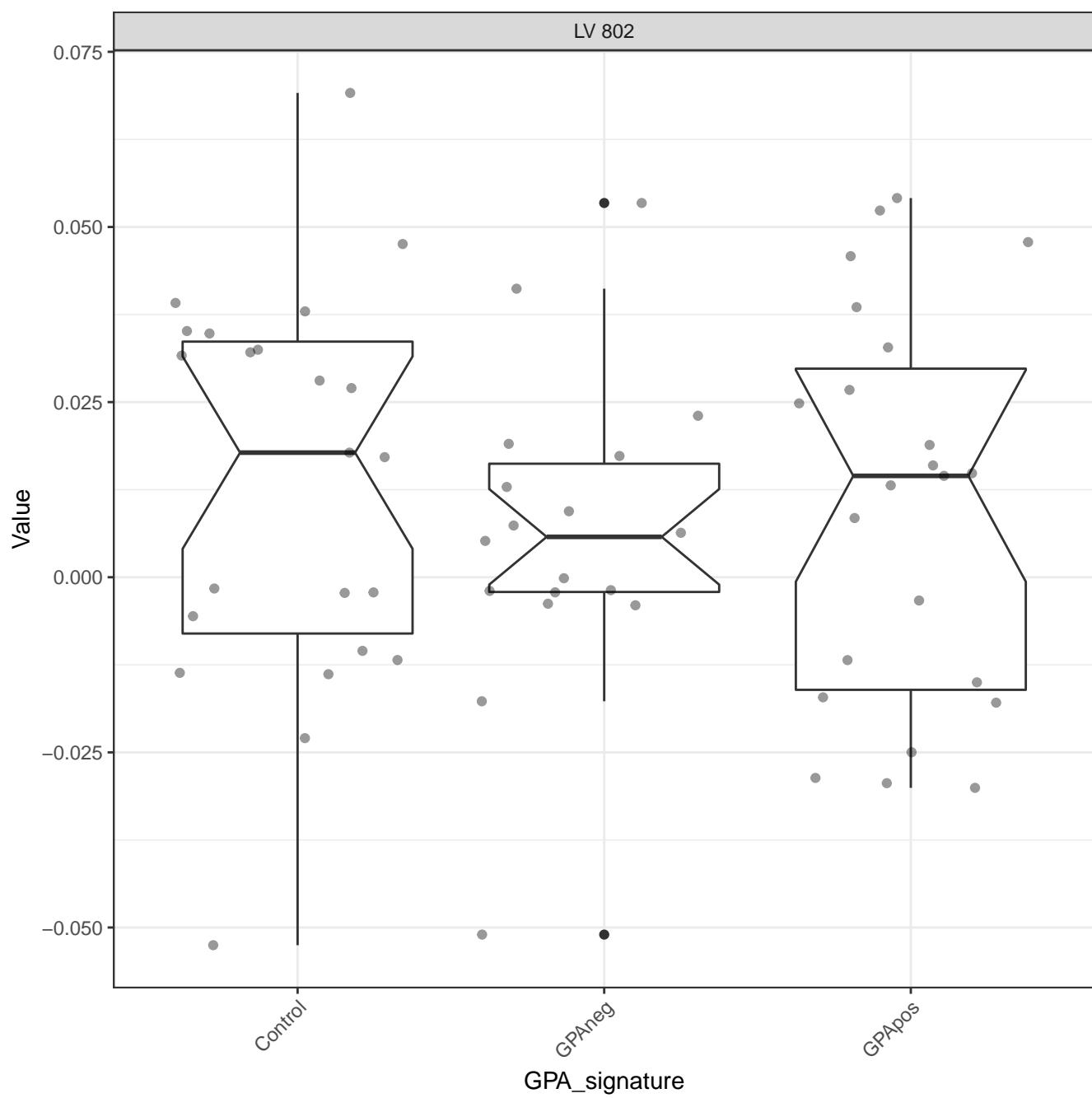
## 800,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



## LV 801



## LV 802



LV 803

Value

0.05

0.00

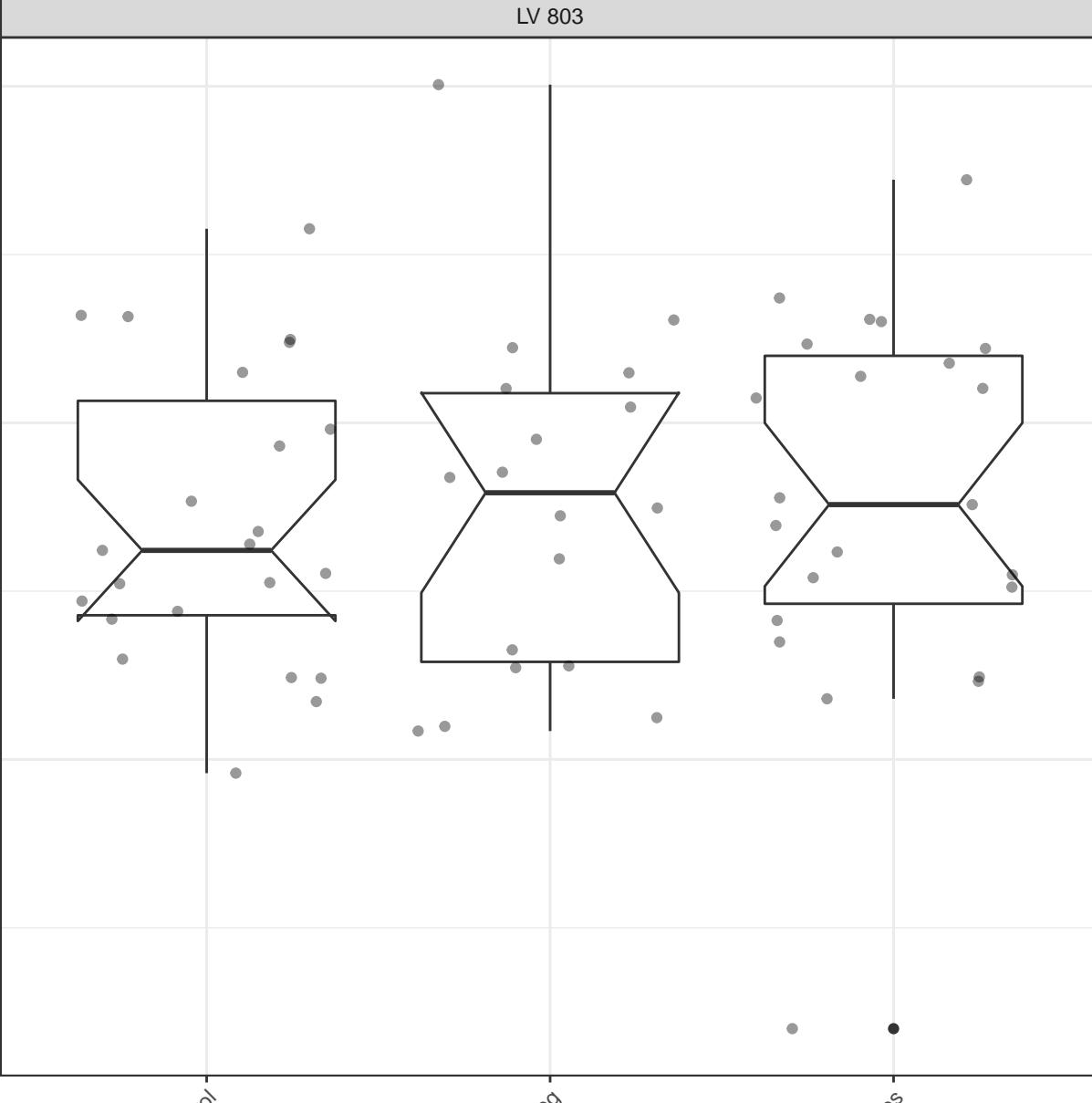
-0.05

Control

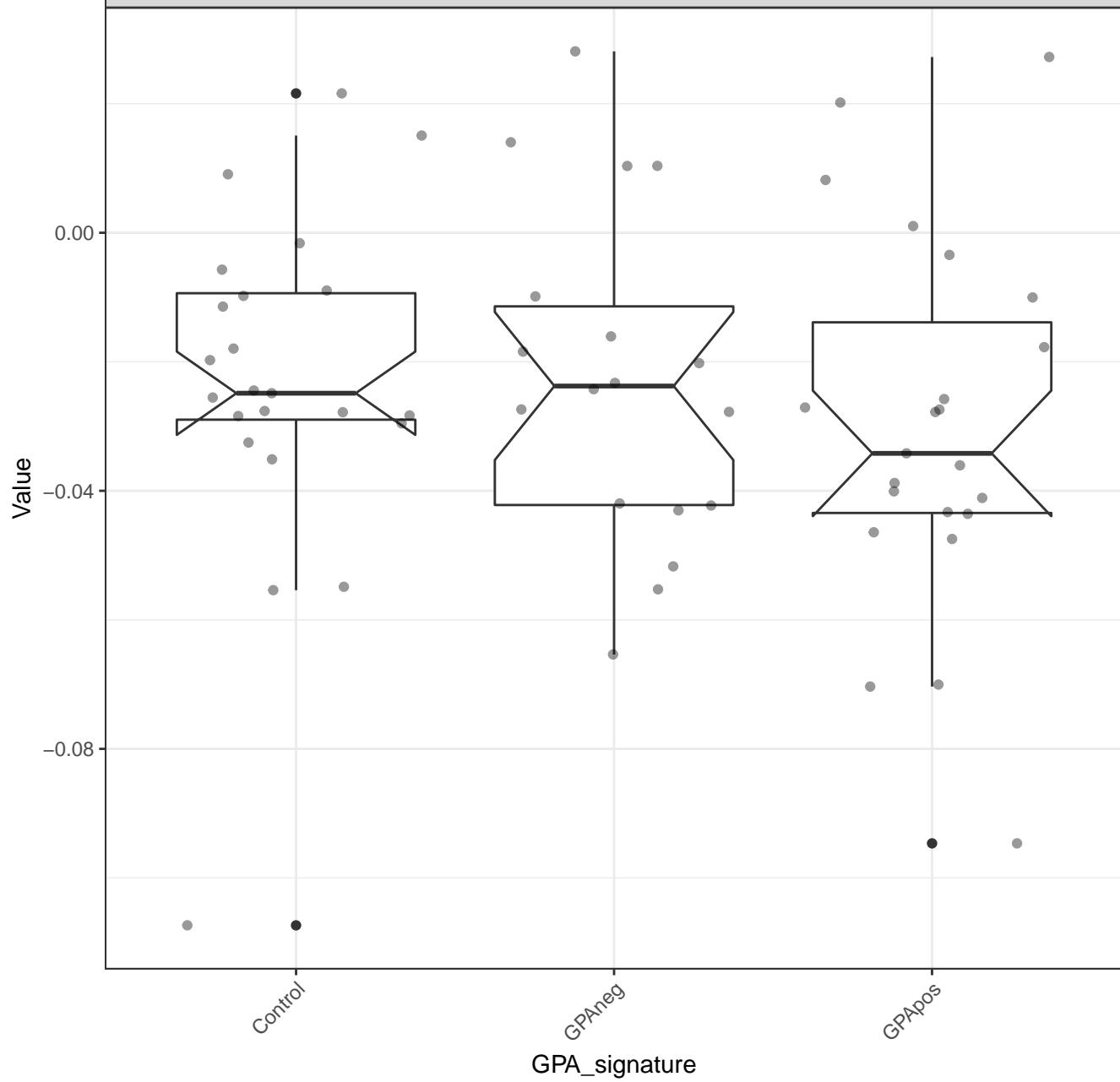
GPA\_signature

GPAneg

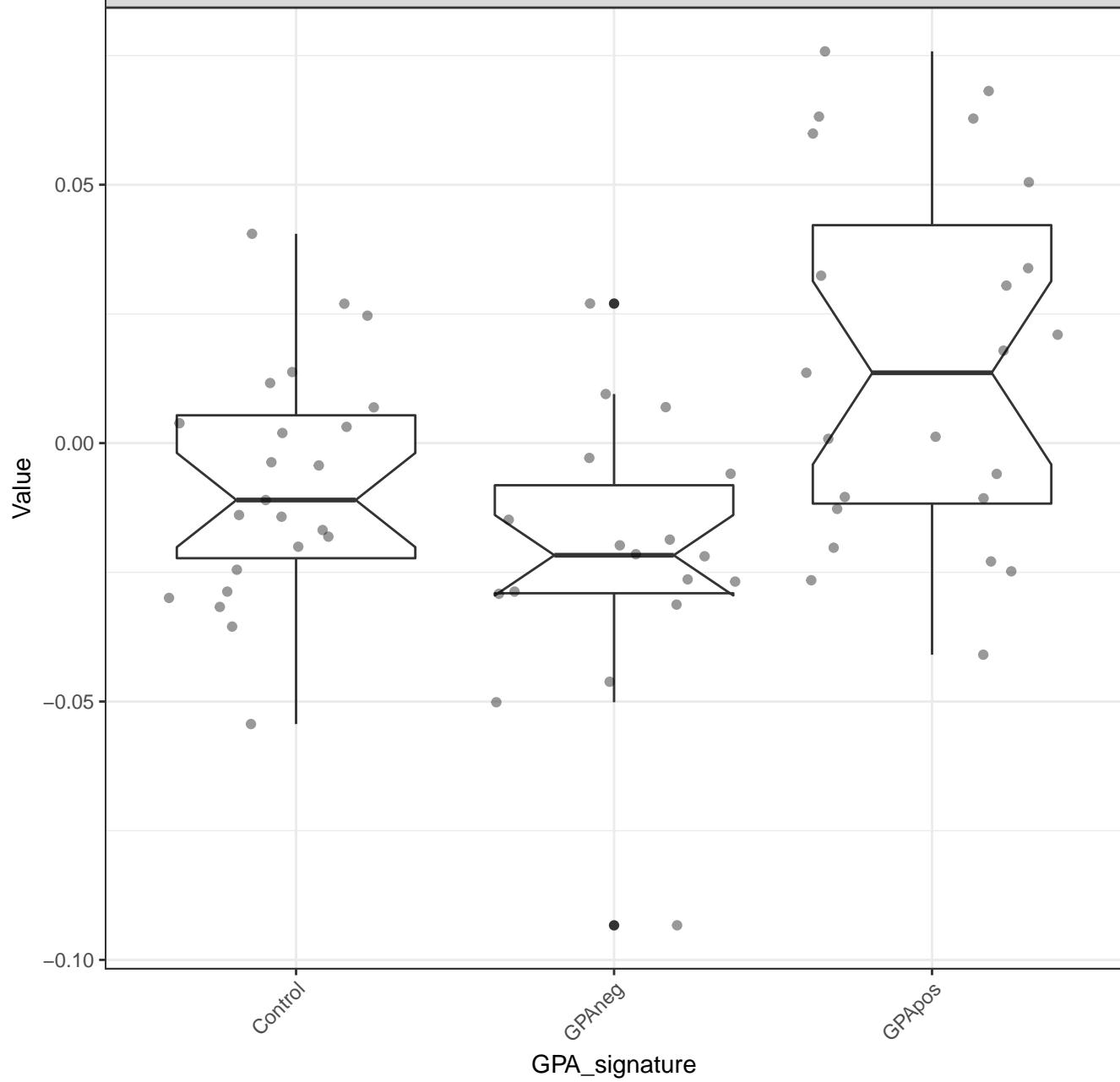
GPApos



## LV 804



LV 805



LV 806

Value

0.05

0.00

-0.05

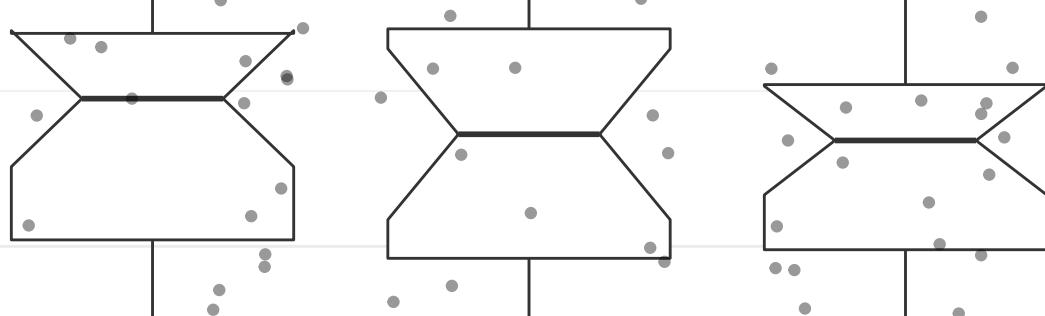
-0.10

Control

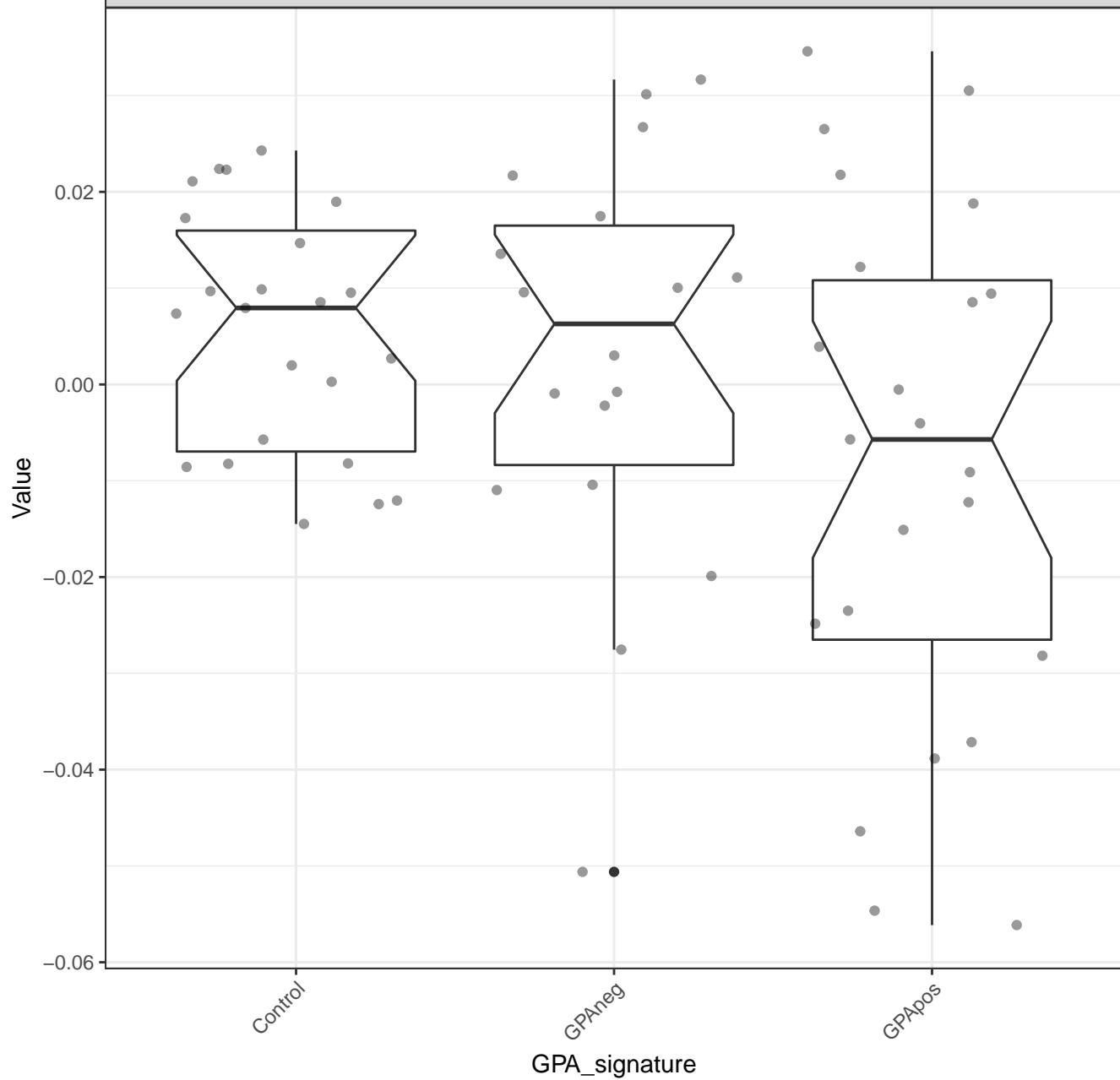
GPAneg

GPApos

GPA\_signature



## LV 807



## LV 808

Value

0.02

0.00

-0.02

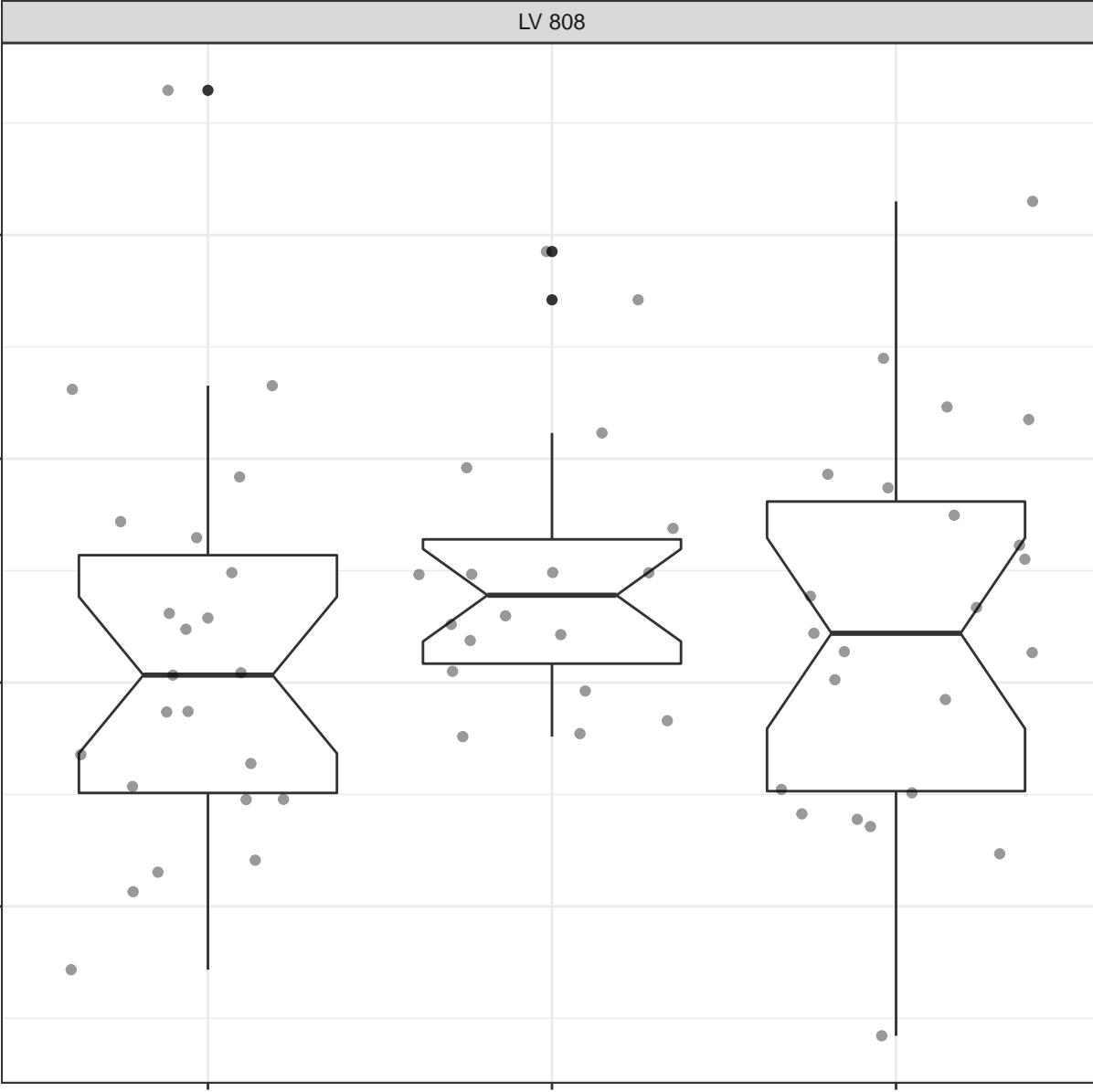
-0.04

Control

GPA\_signature

GPAneg

GPApos



## LV 809

Value

0.05

0.01

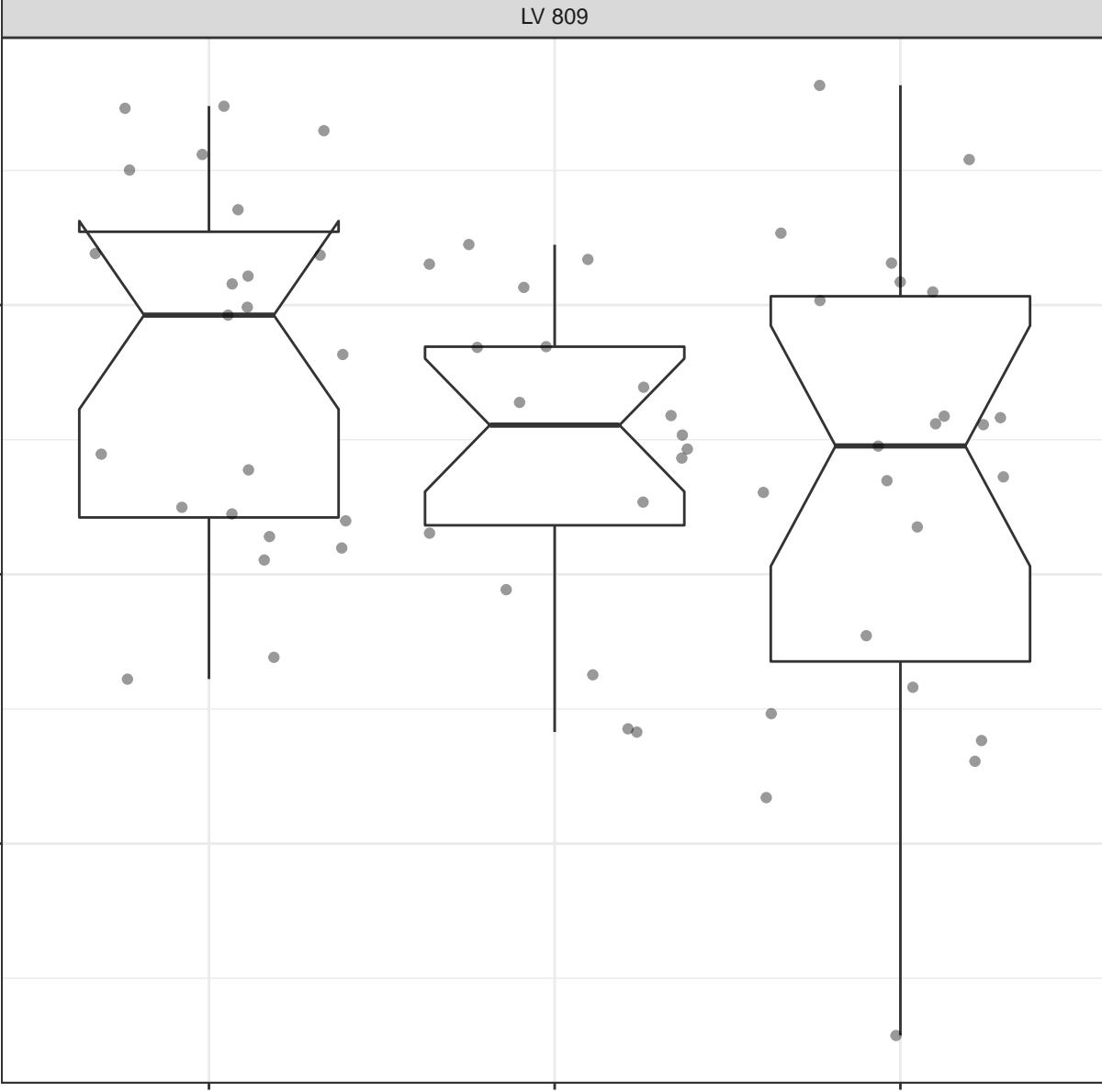
-0.05

Control

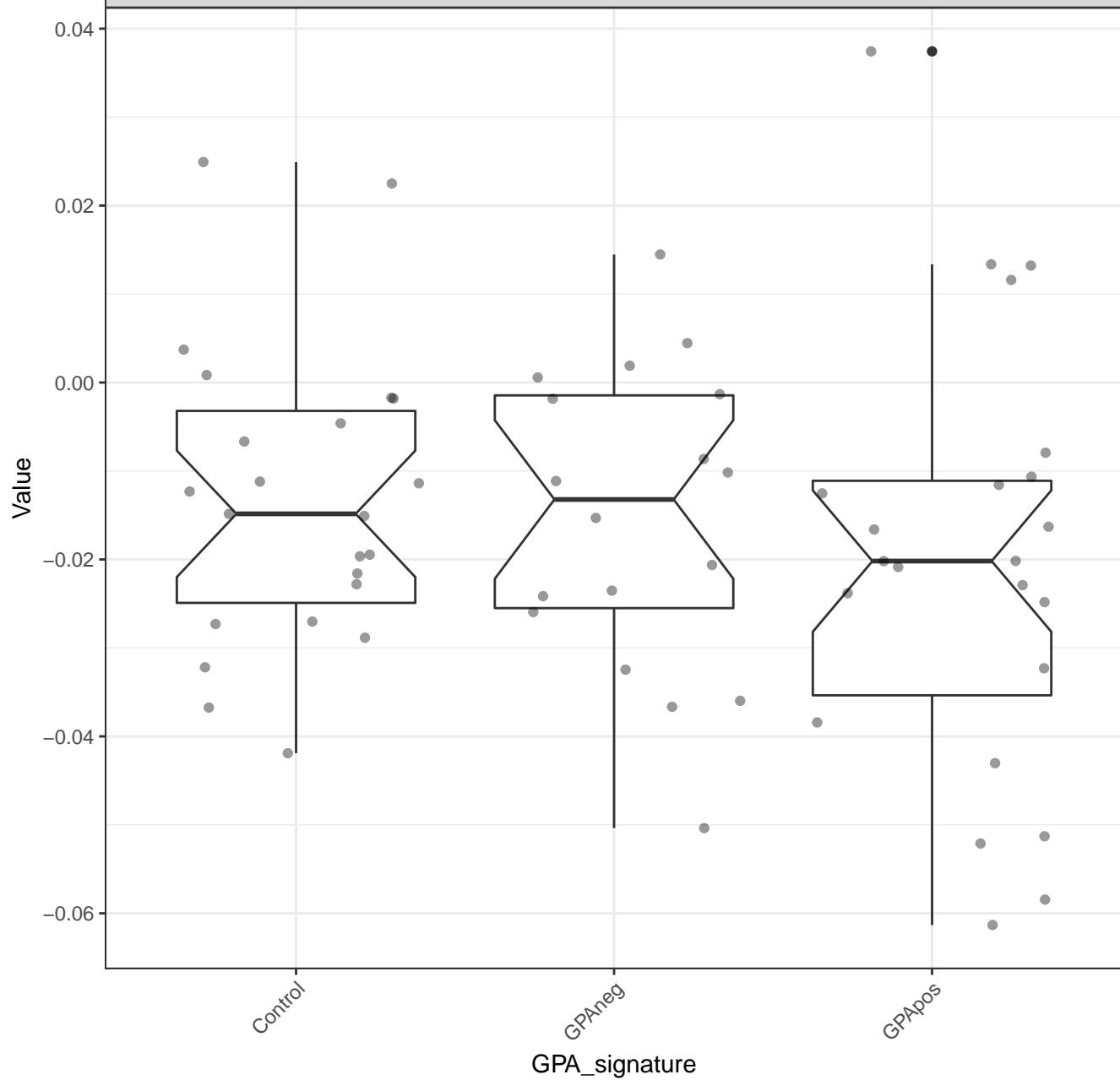
GPA\_signature

GPAneg

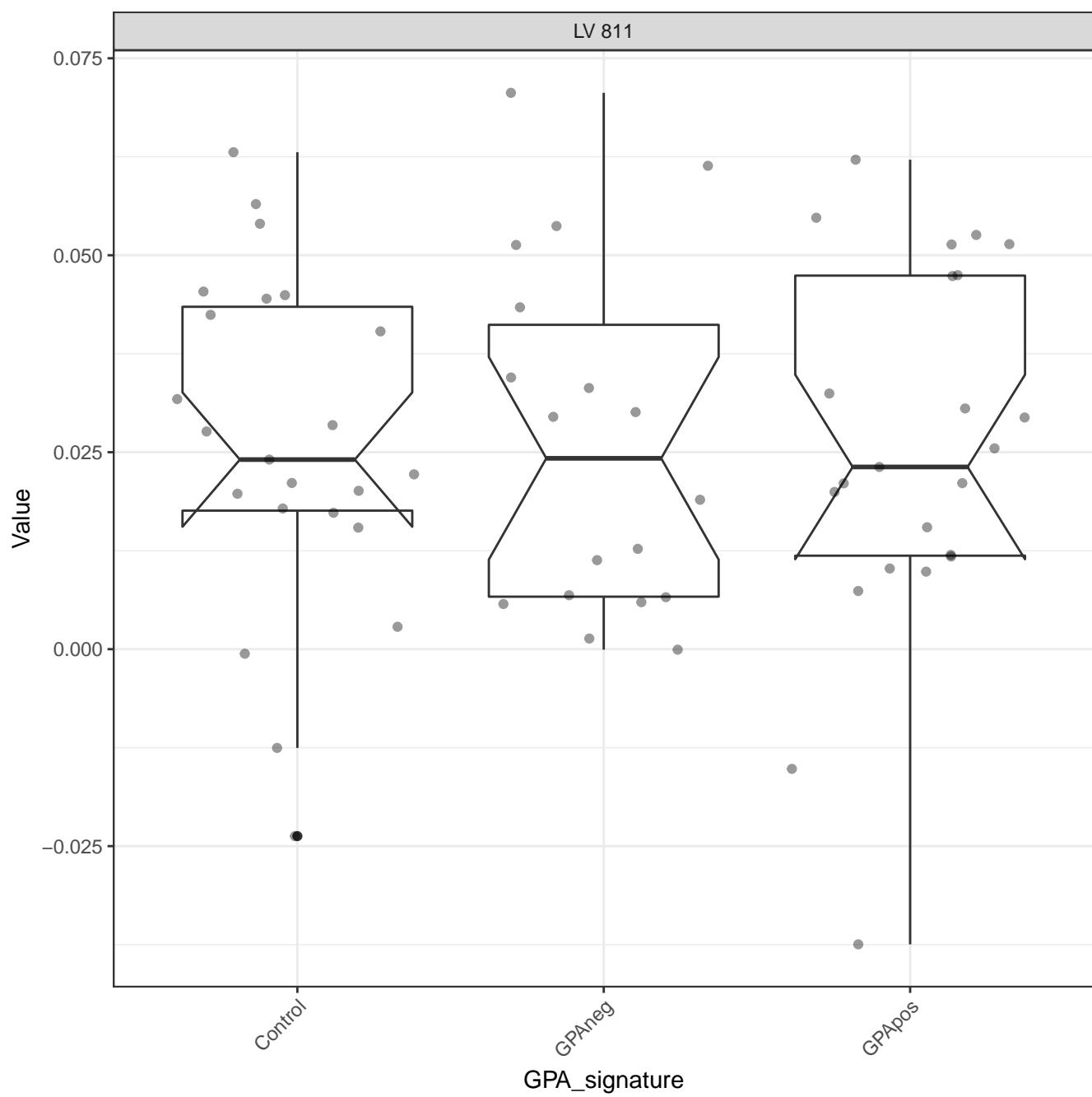
GPApos



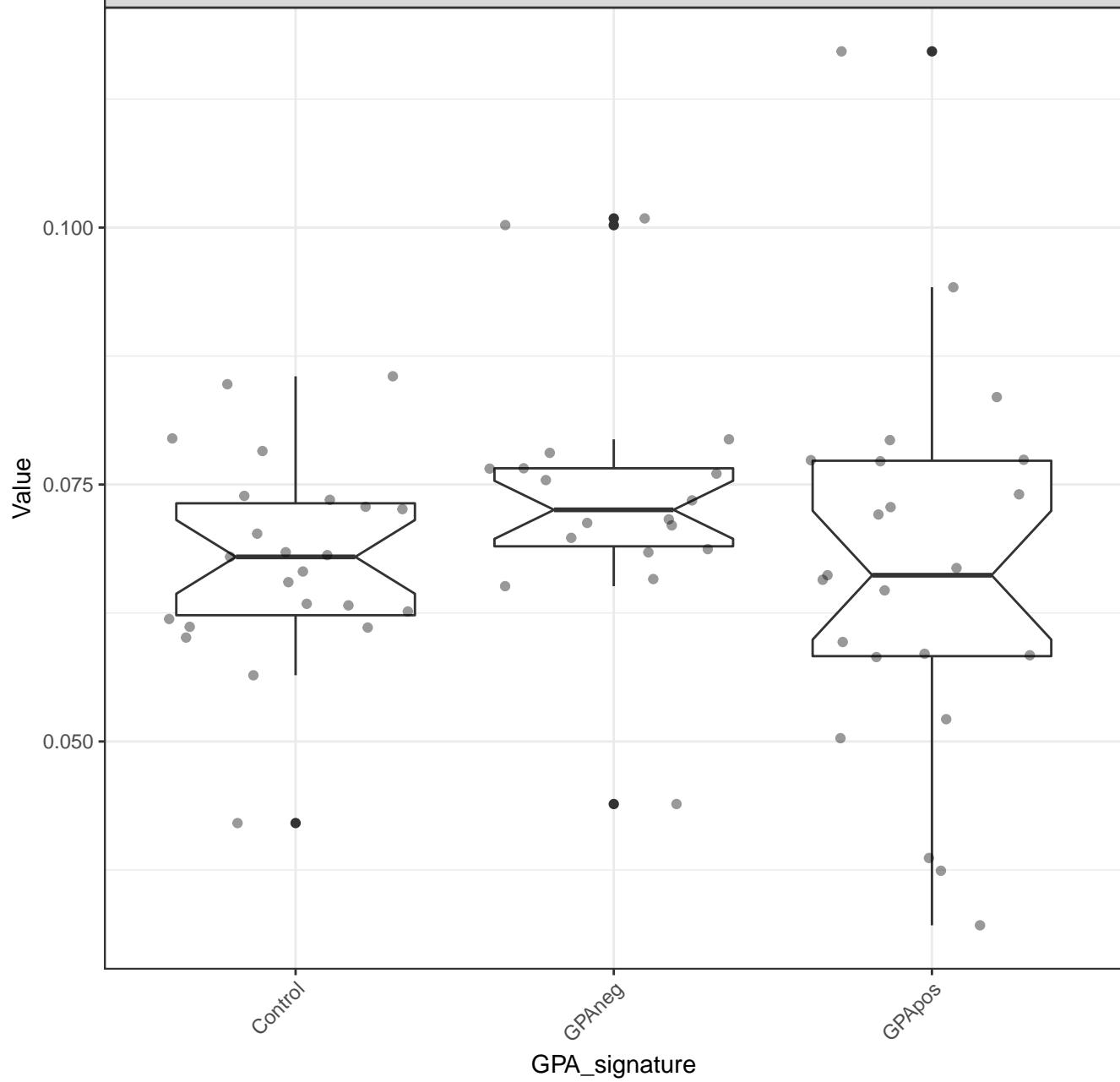
LV 810



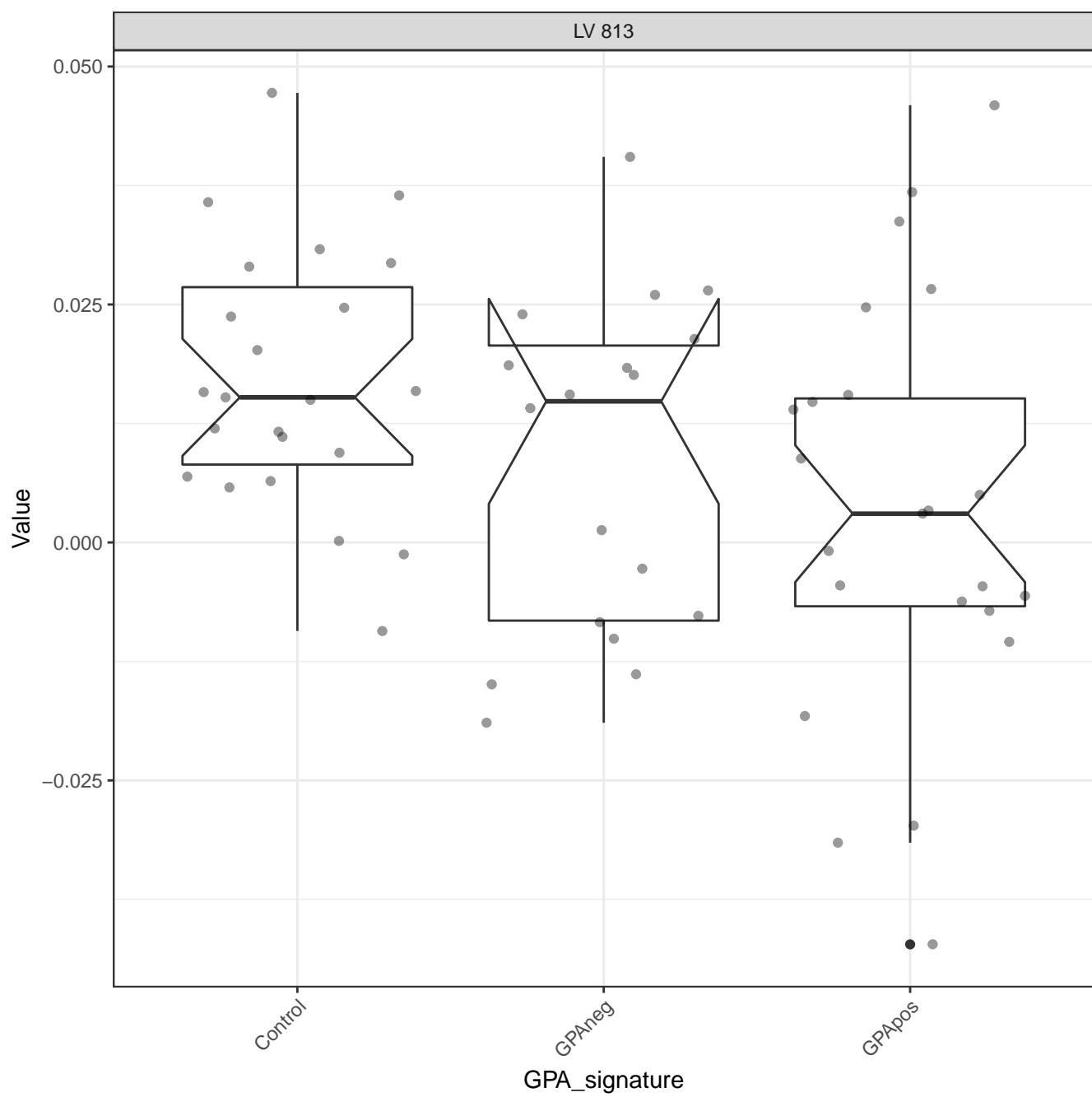
LV 811



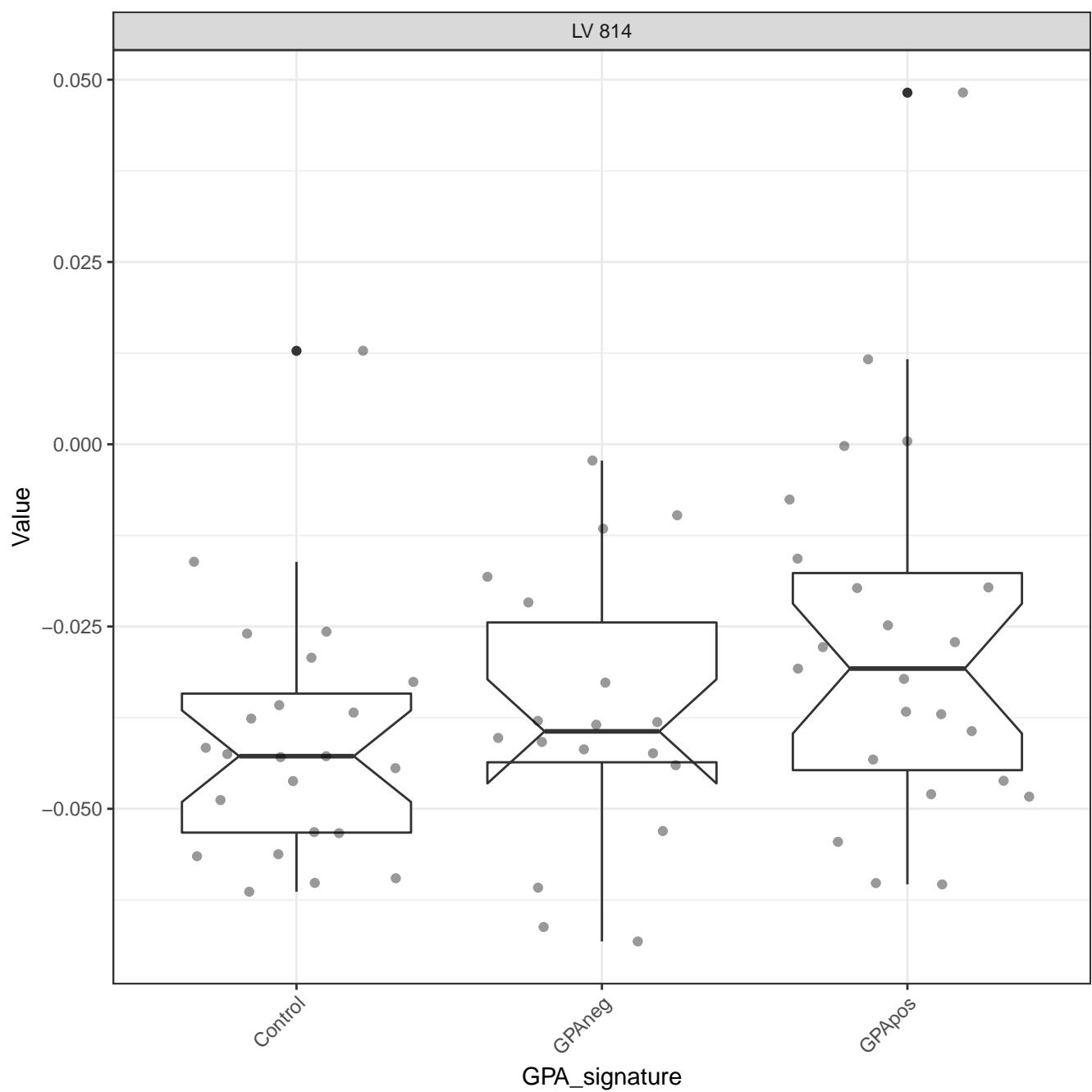
## LV 812



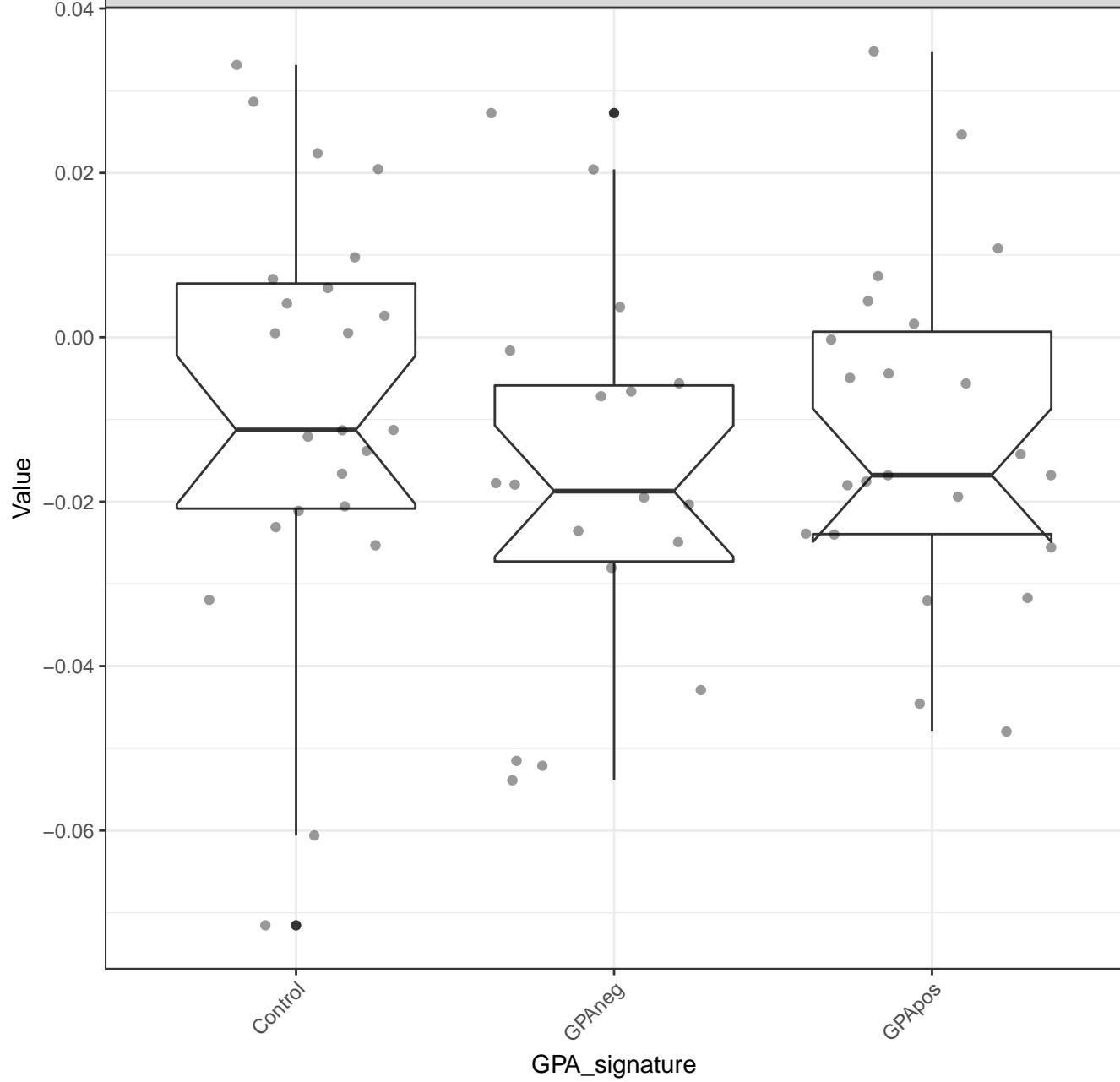
LV 813



LV 814



LV 815



LV 816

Value

0.05

0.01

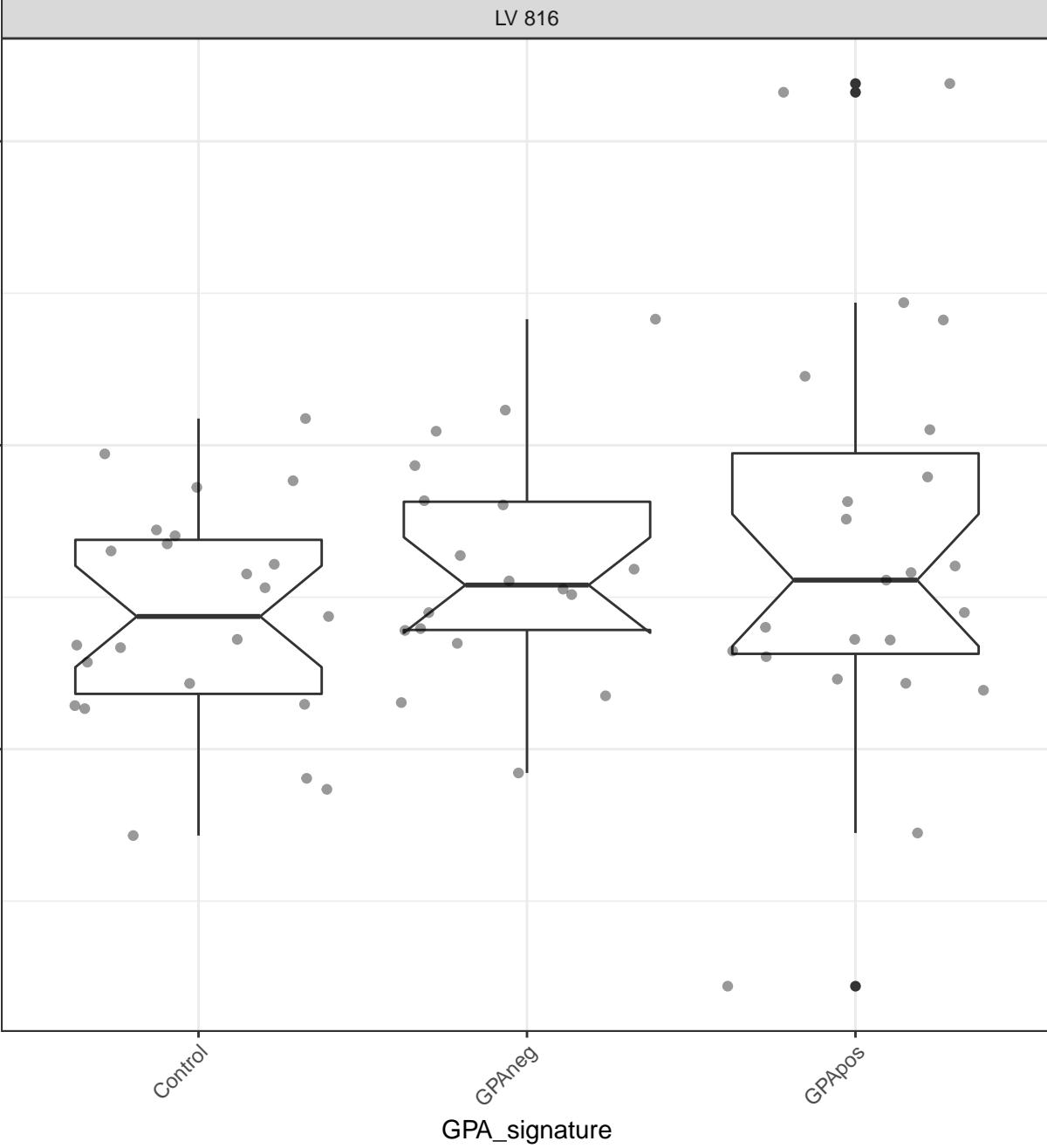
-0.05

Control

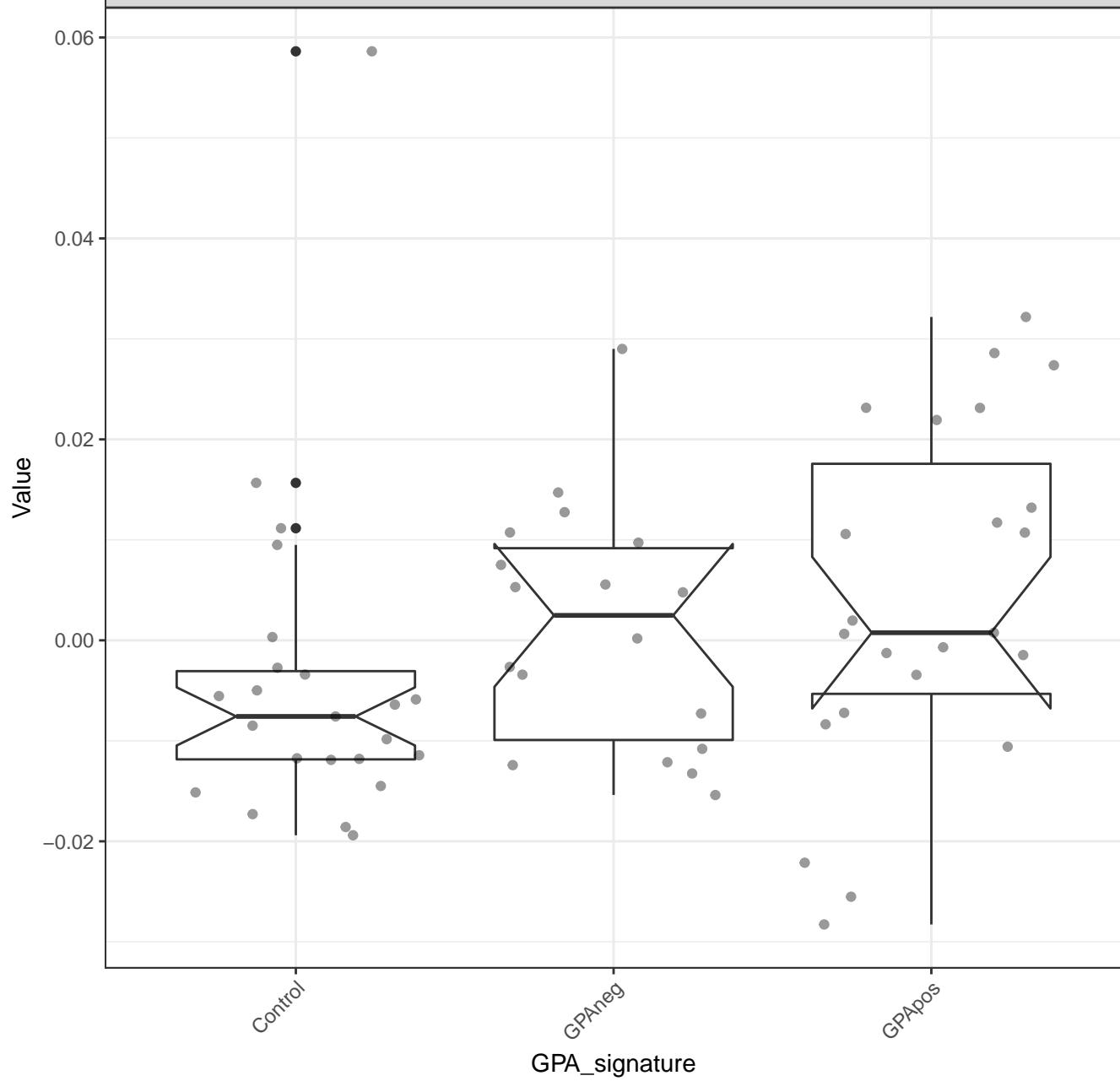
GPAneg

GPApos

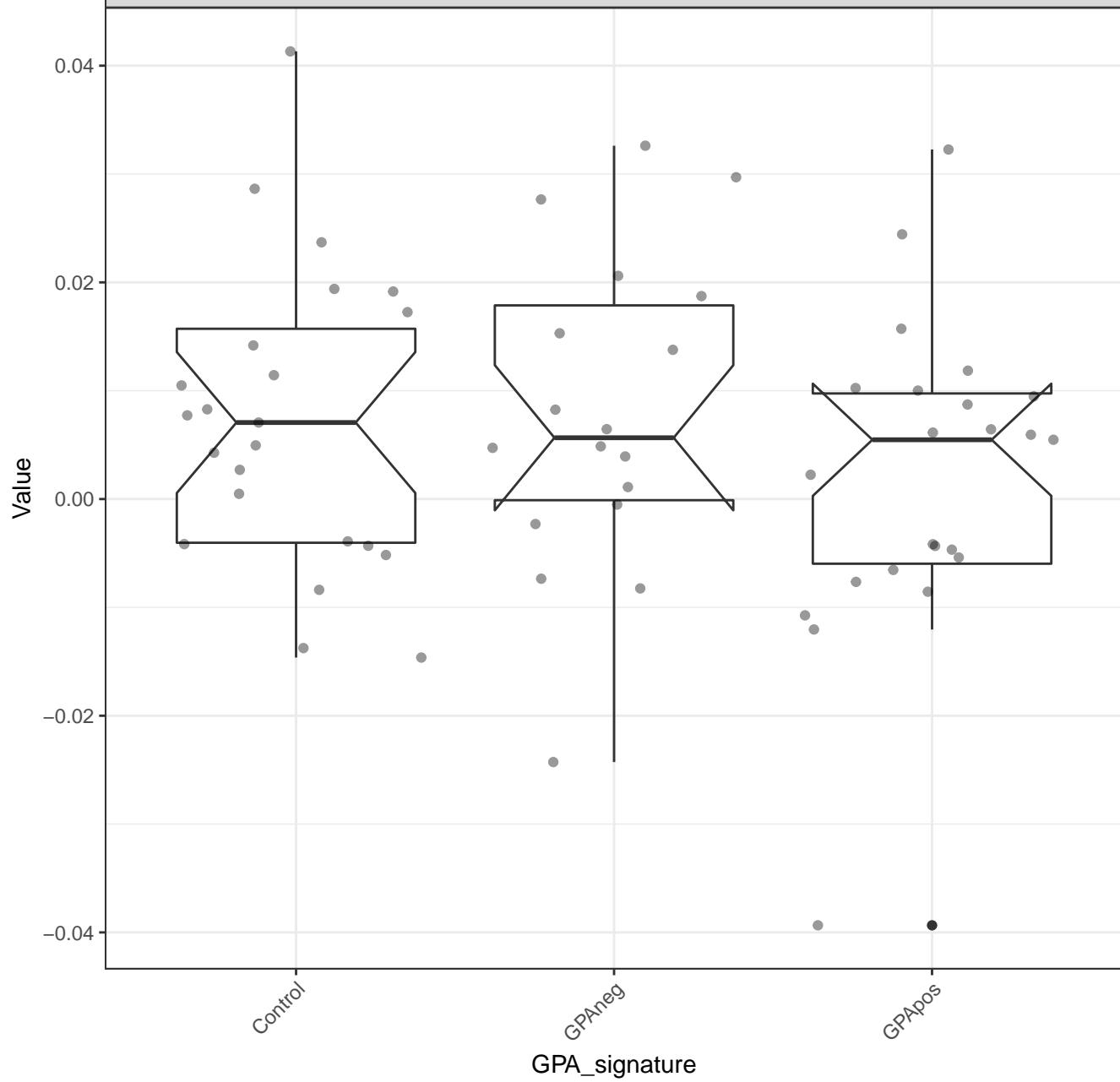
GPA\_signature



## LV 817



## LV 818



LV 819

Value

0.050

0.025

0.000

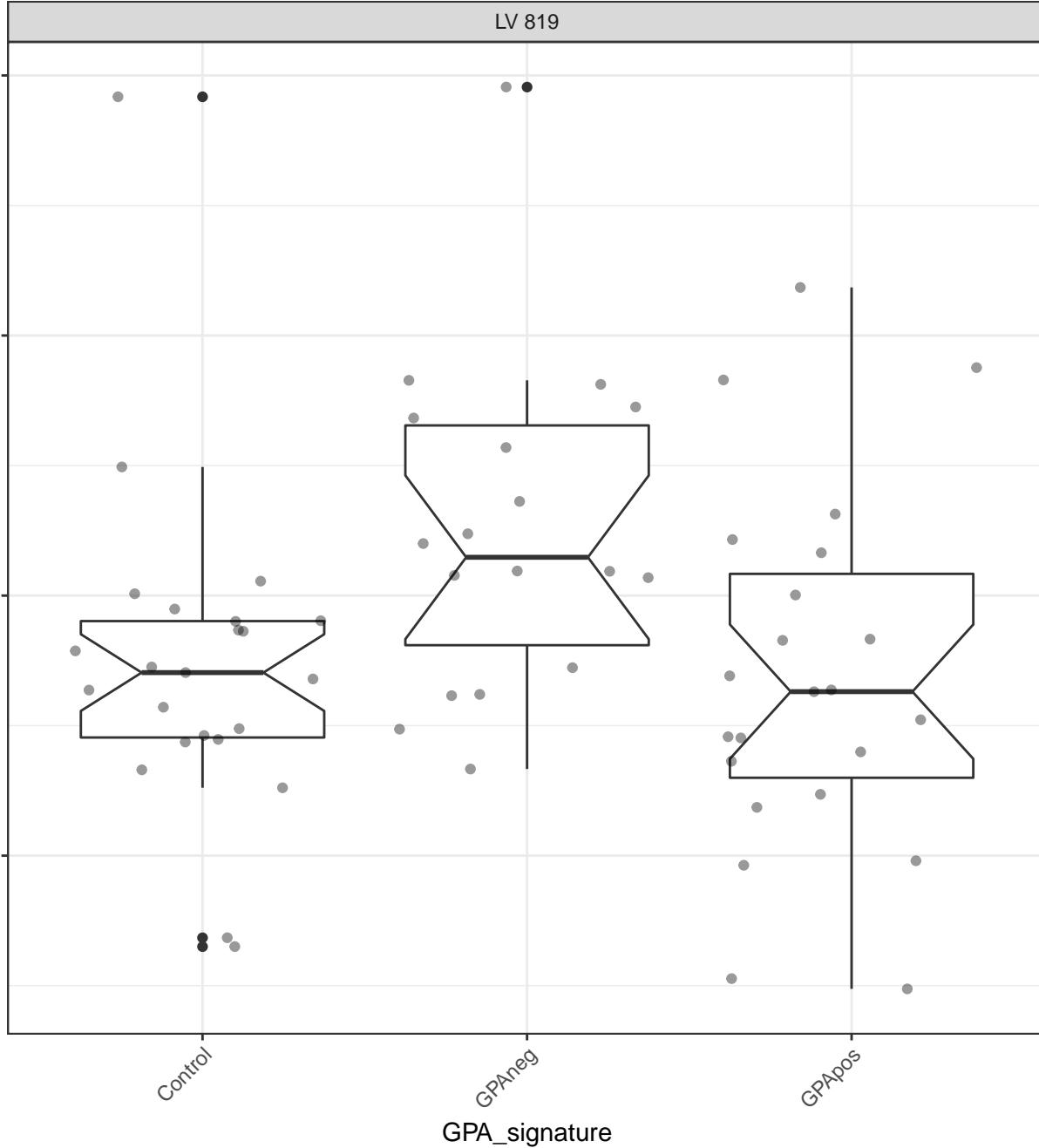
-0.025

Control

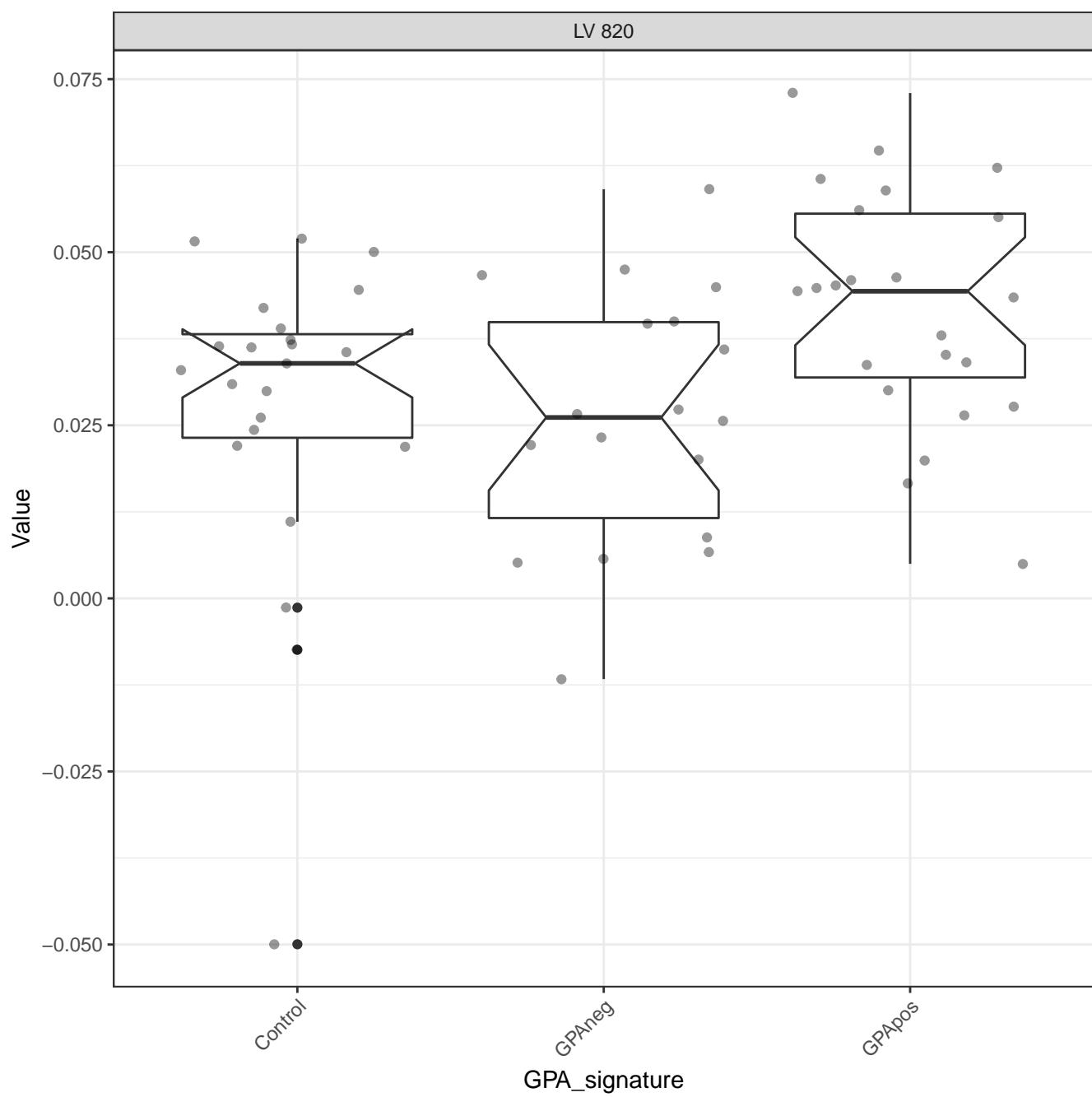
GPAneg

GPApos

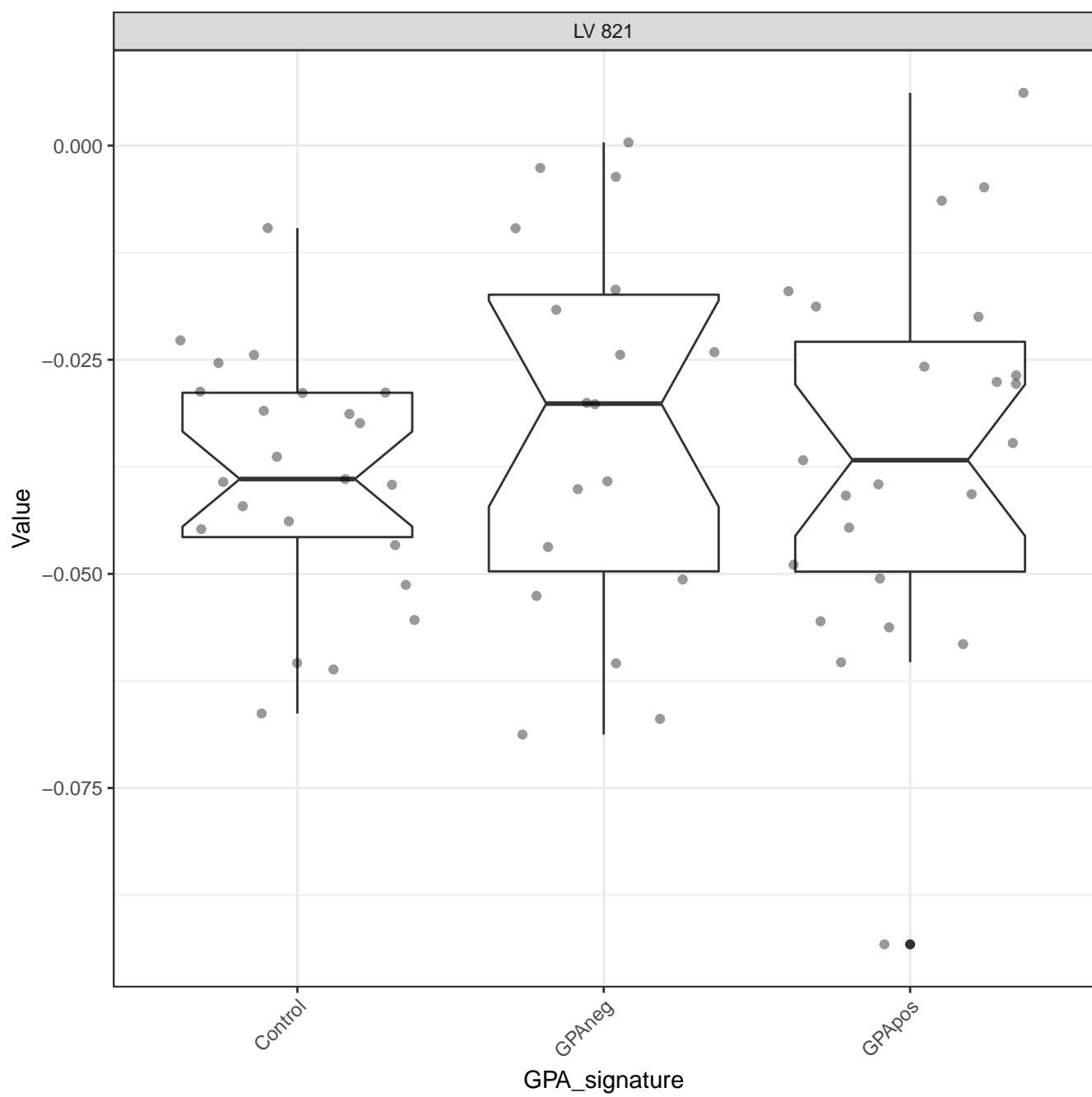
GPA\_signature



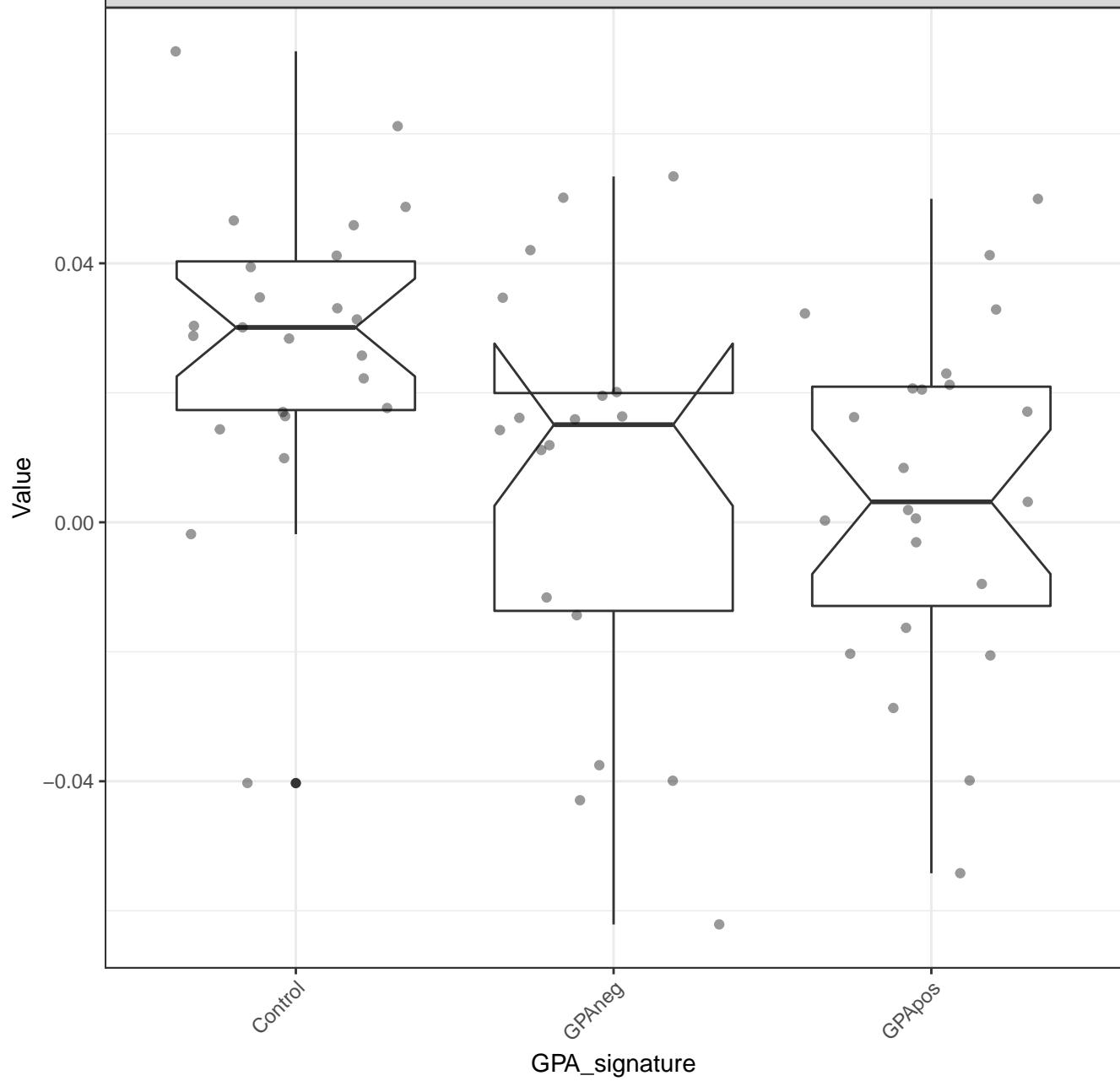
## LV 820



## LV 821



## LV 822



## 823,SVM T cells CD4 memory resting

Value

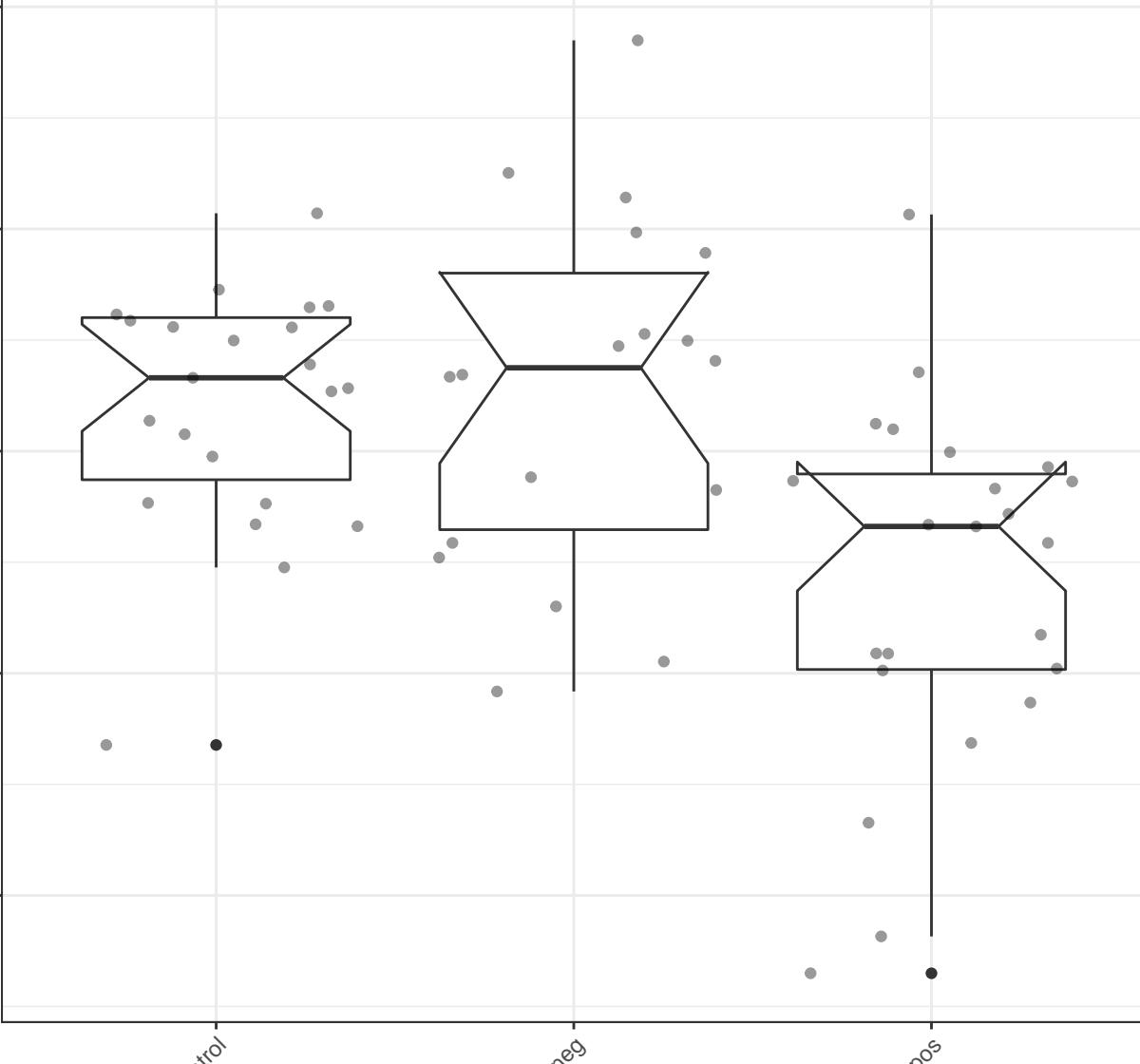
0.15  
0.10  
0.05  
0.00  
-0.05

Control

GPAneg

GPAPos

GPA\_signature



Value

0.1

0.0

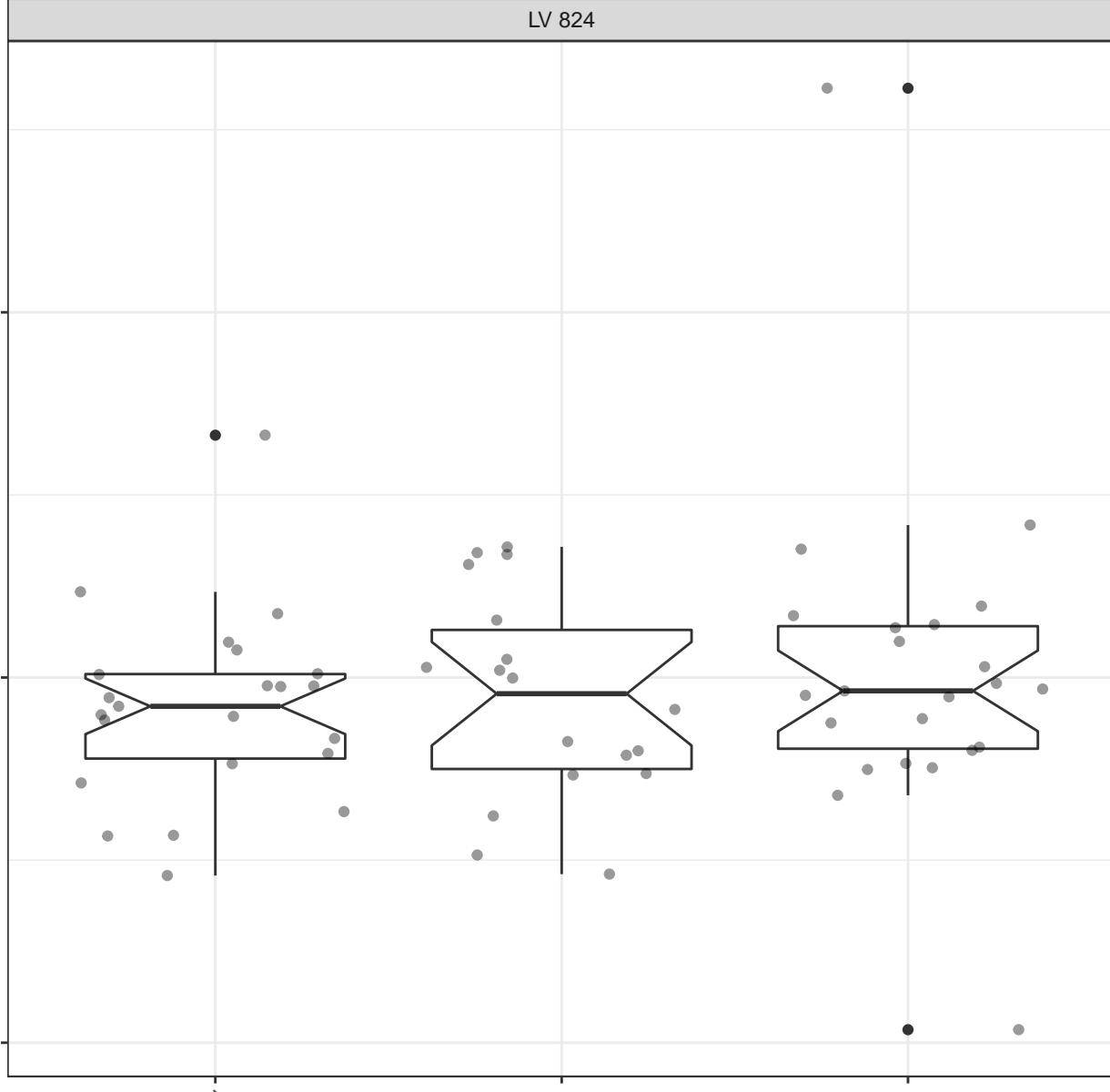
-0.1

Control

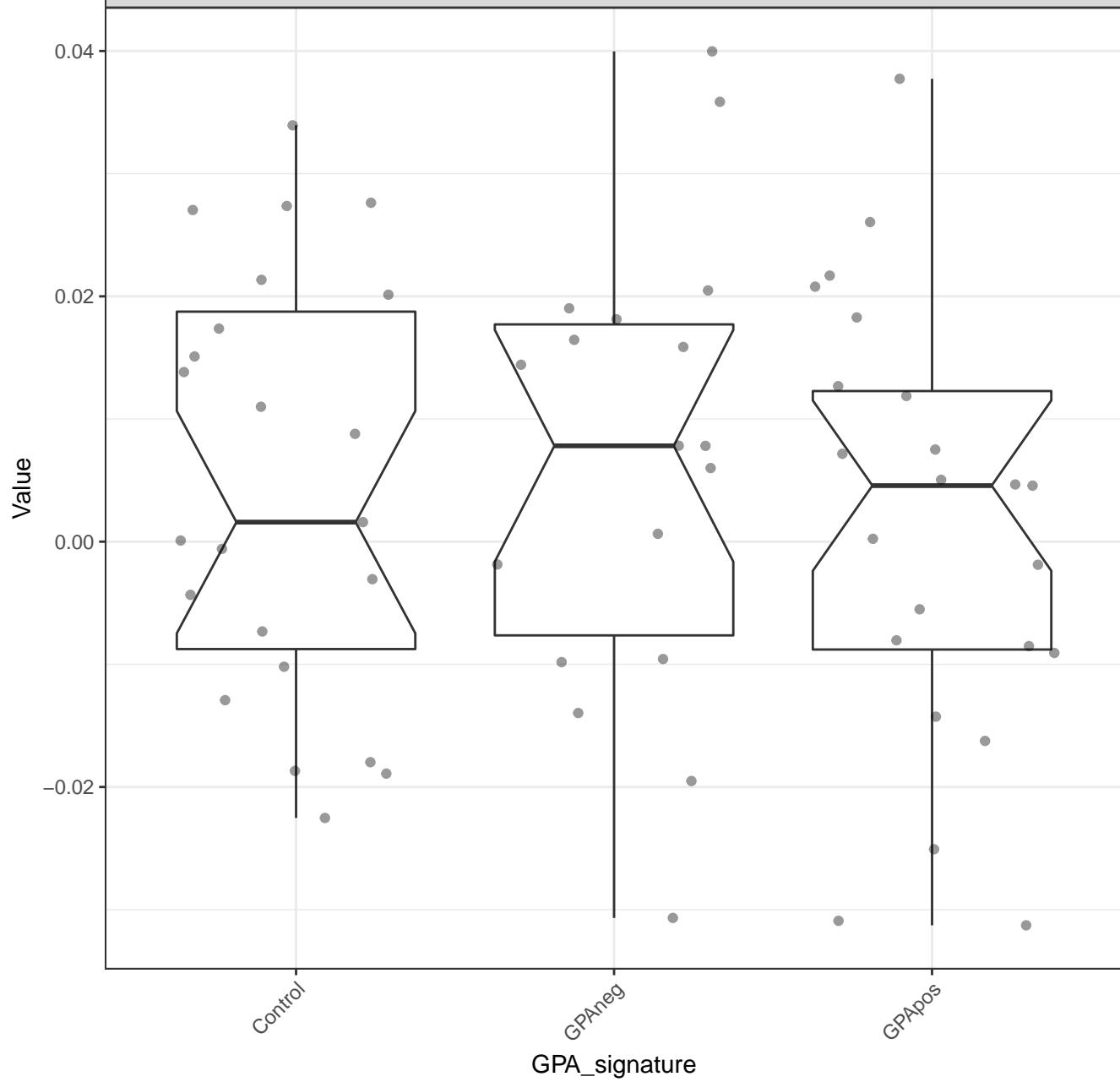
GPA\_signature

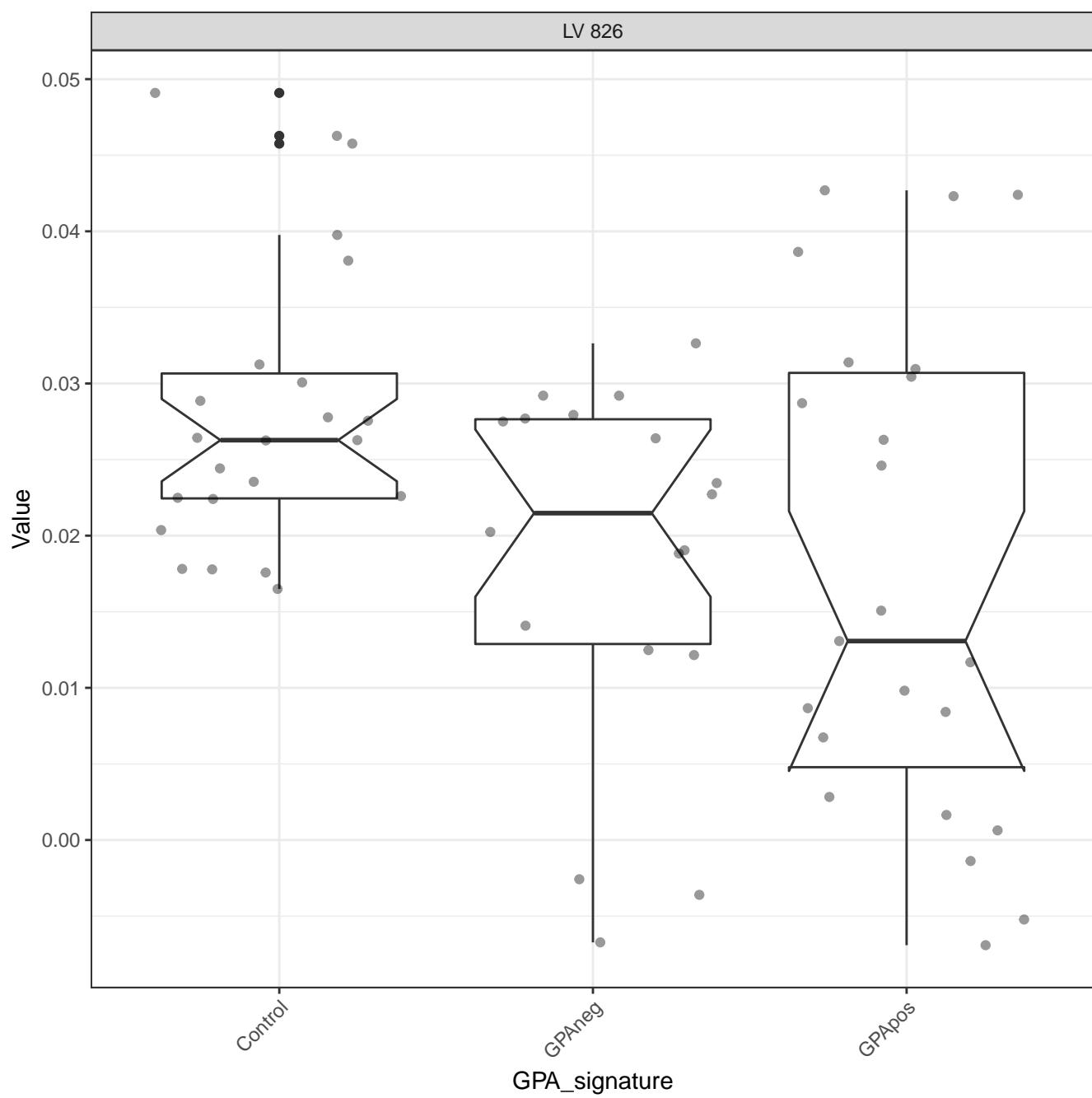
GPAneg

GPApos

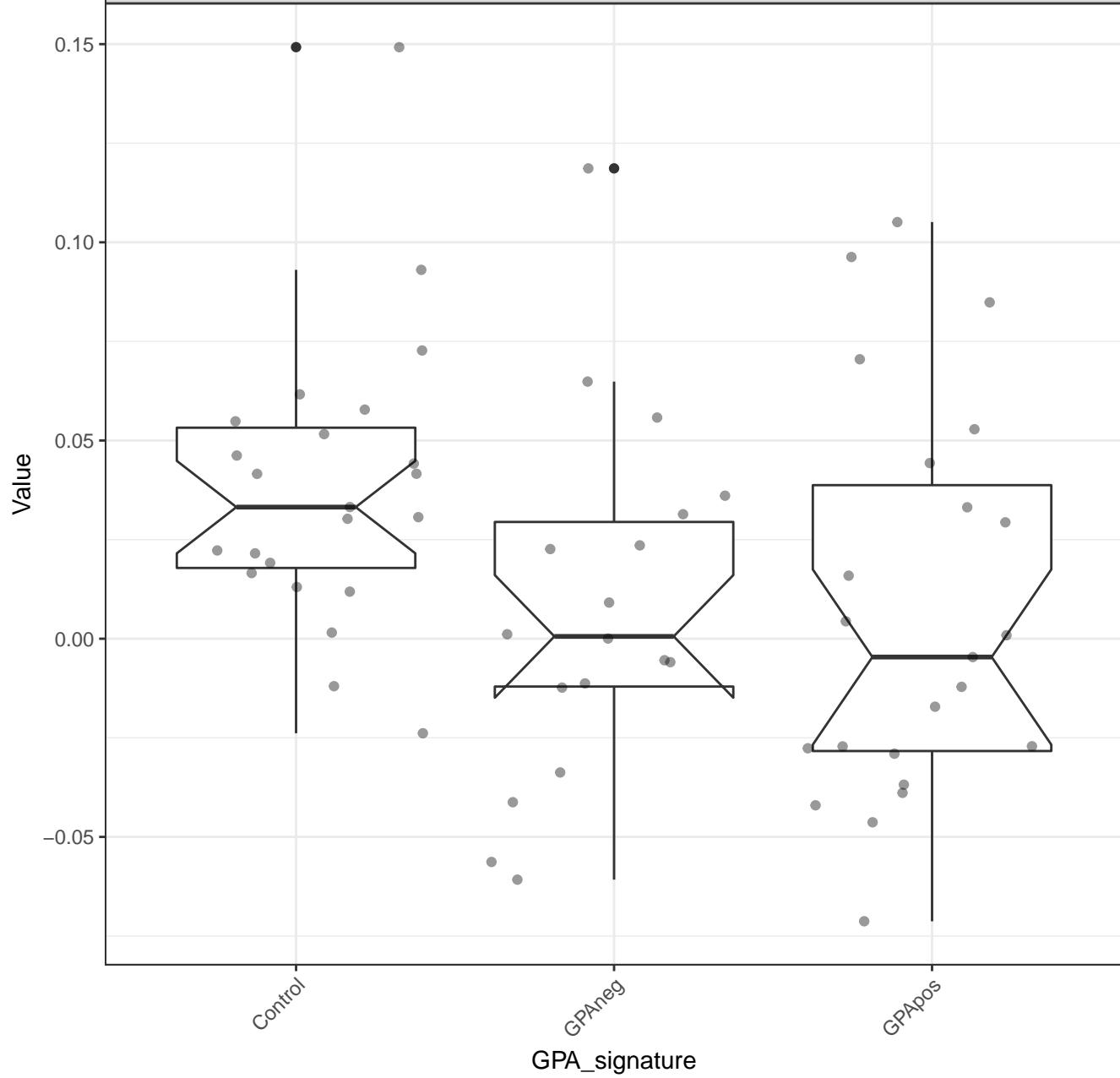


LV 825

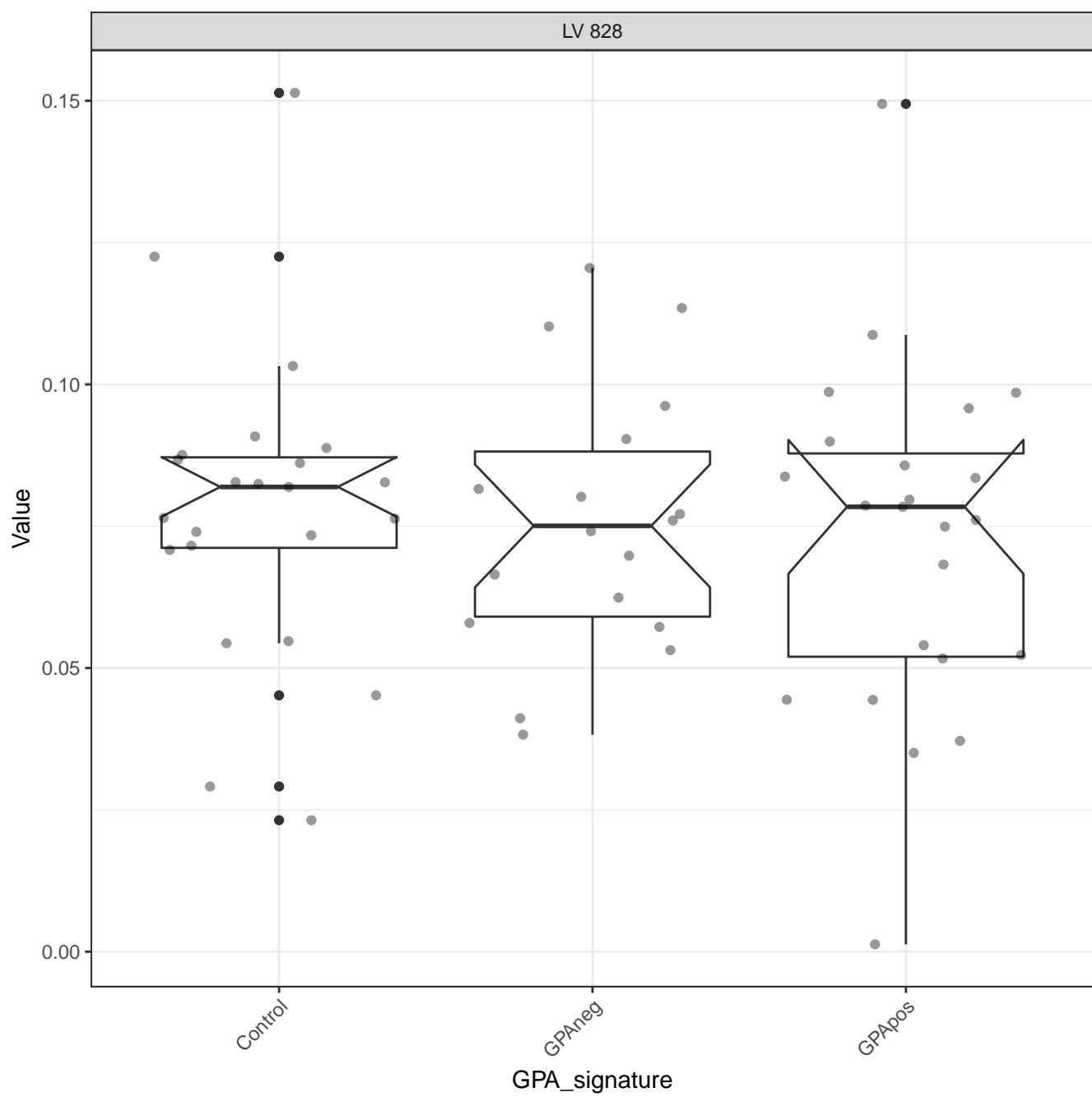




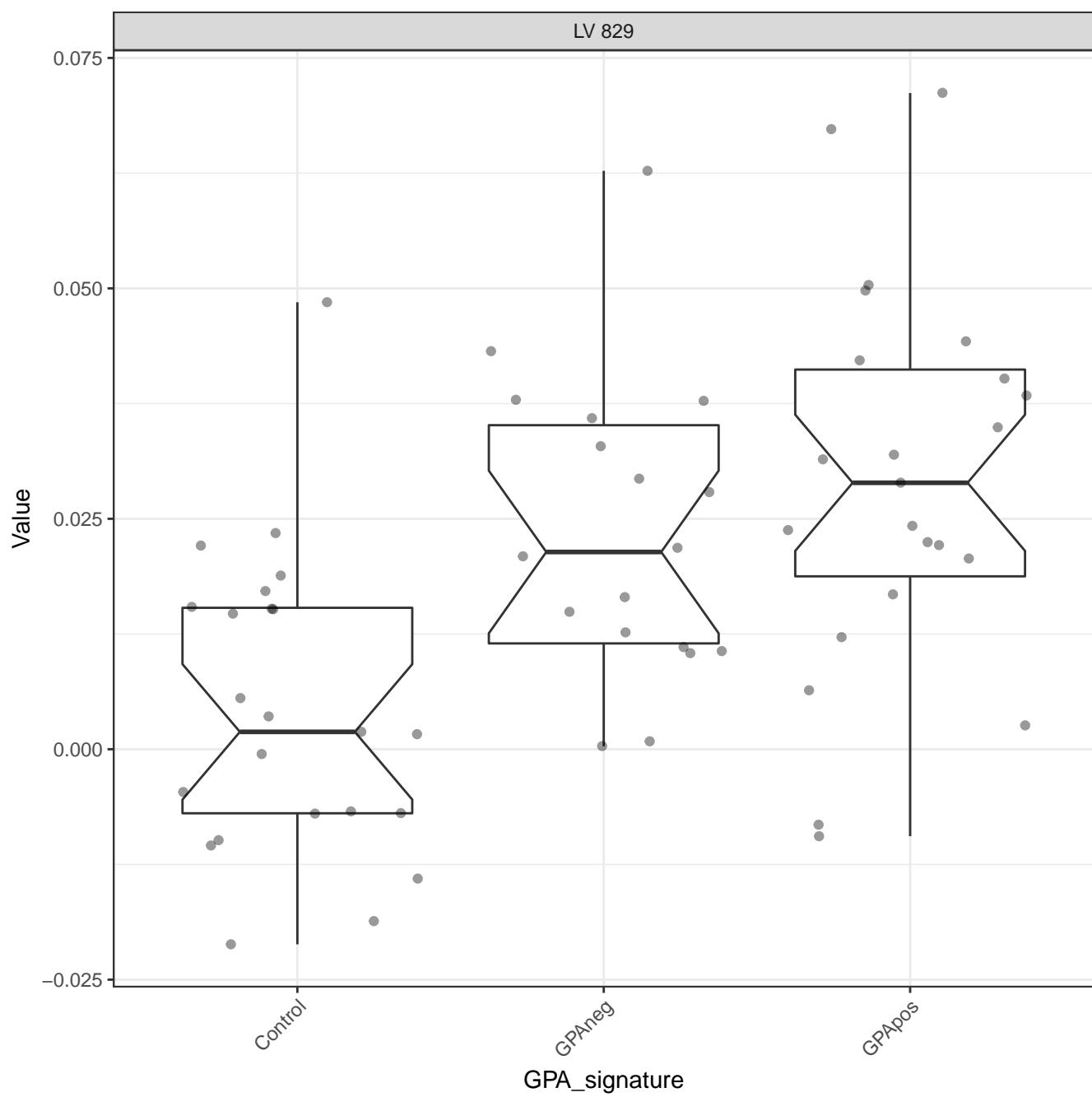
## 827,KEGG\_B\_CELL\_RECEPTOR\_SIGNALING\_PATHWAY



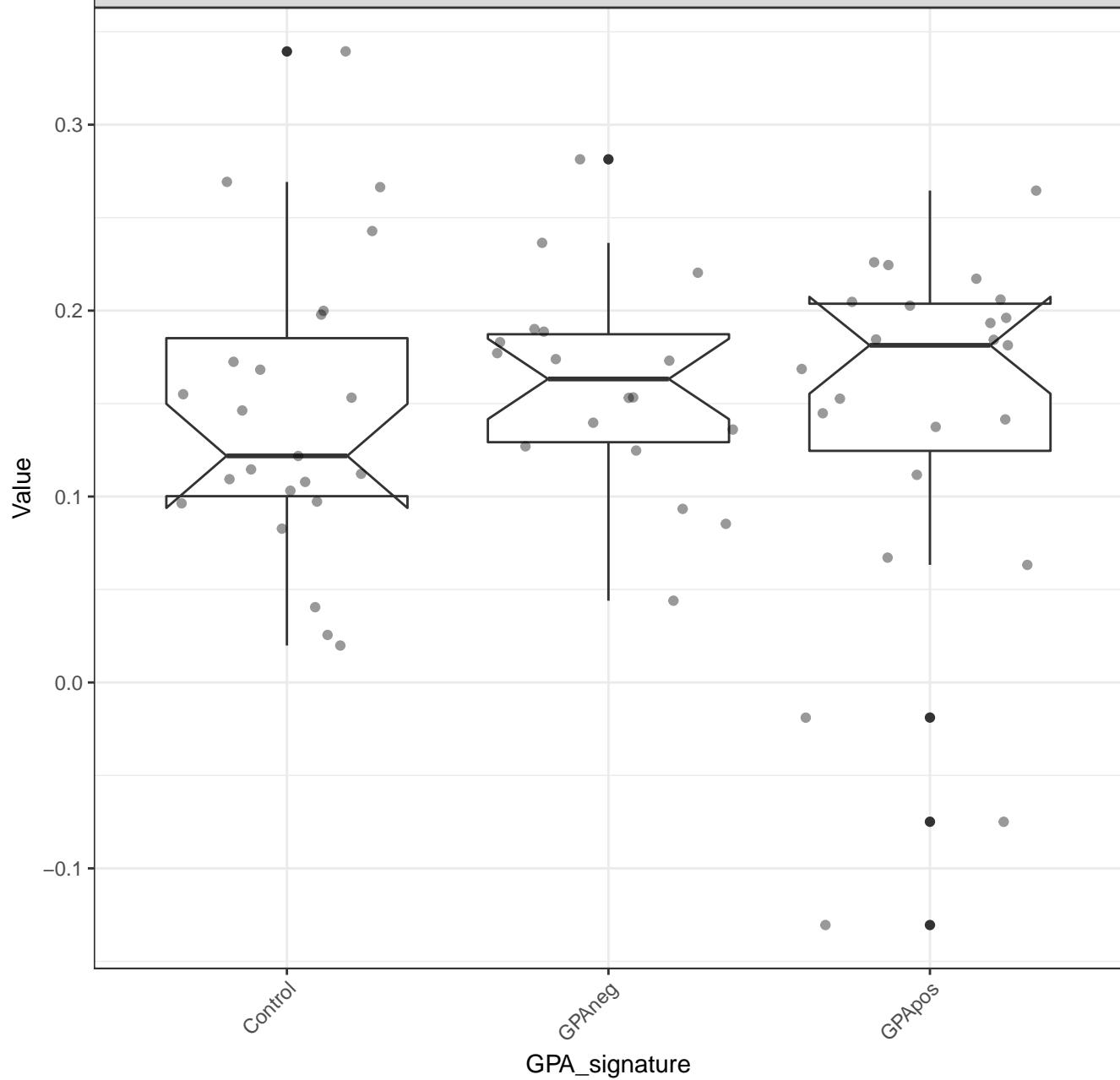
## LV 828



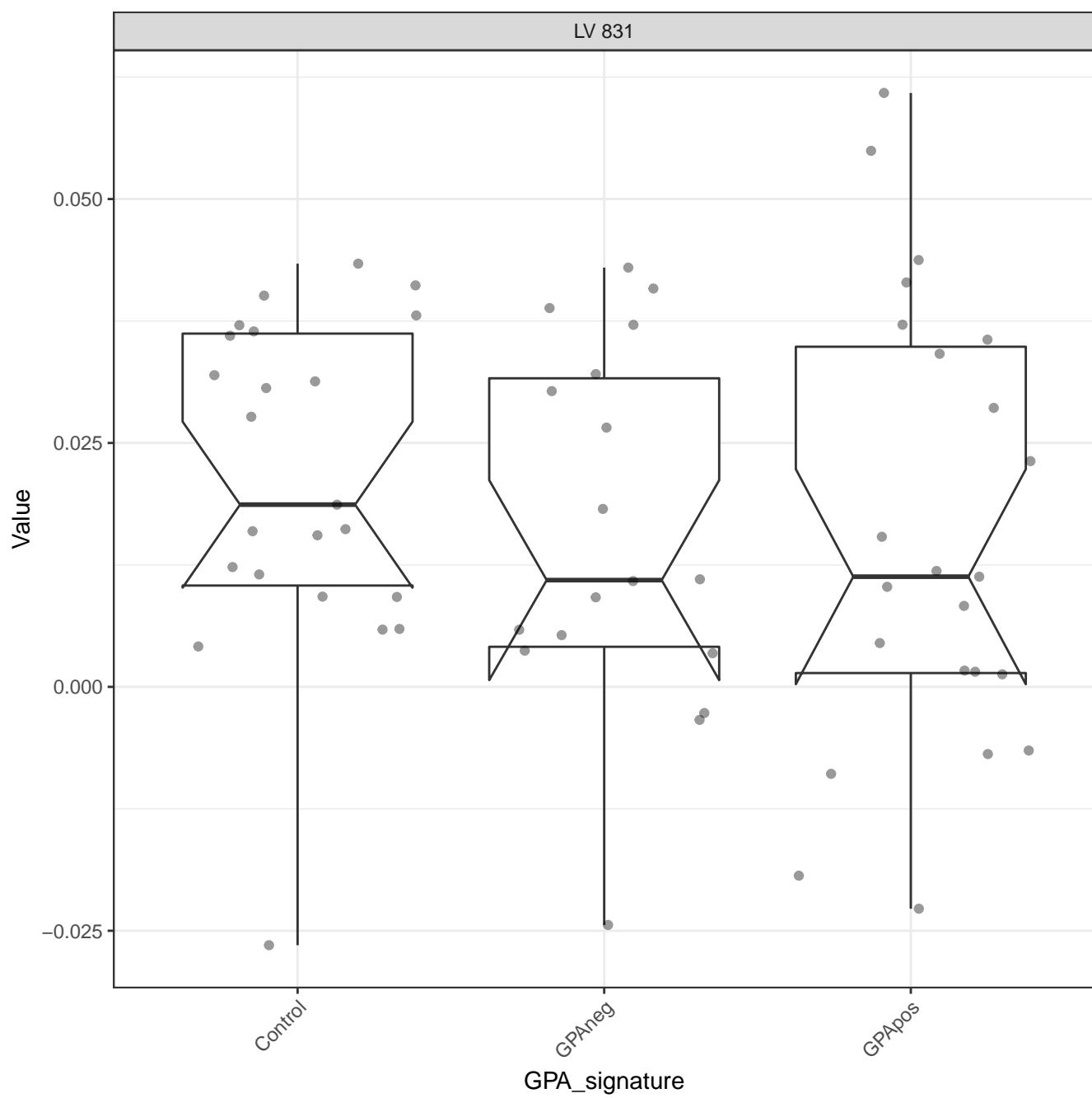
LV 829



## LV 830



## LV 831



### 832,KEGG\_CYSTEINE\_AND\_METHIONINE\_METABOLISM

Value

0.05

0.00

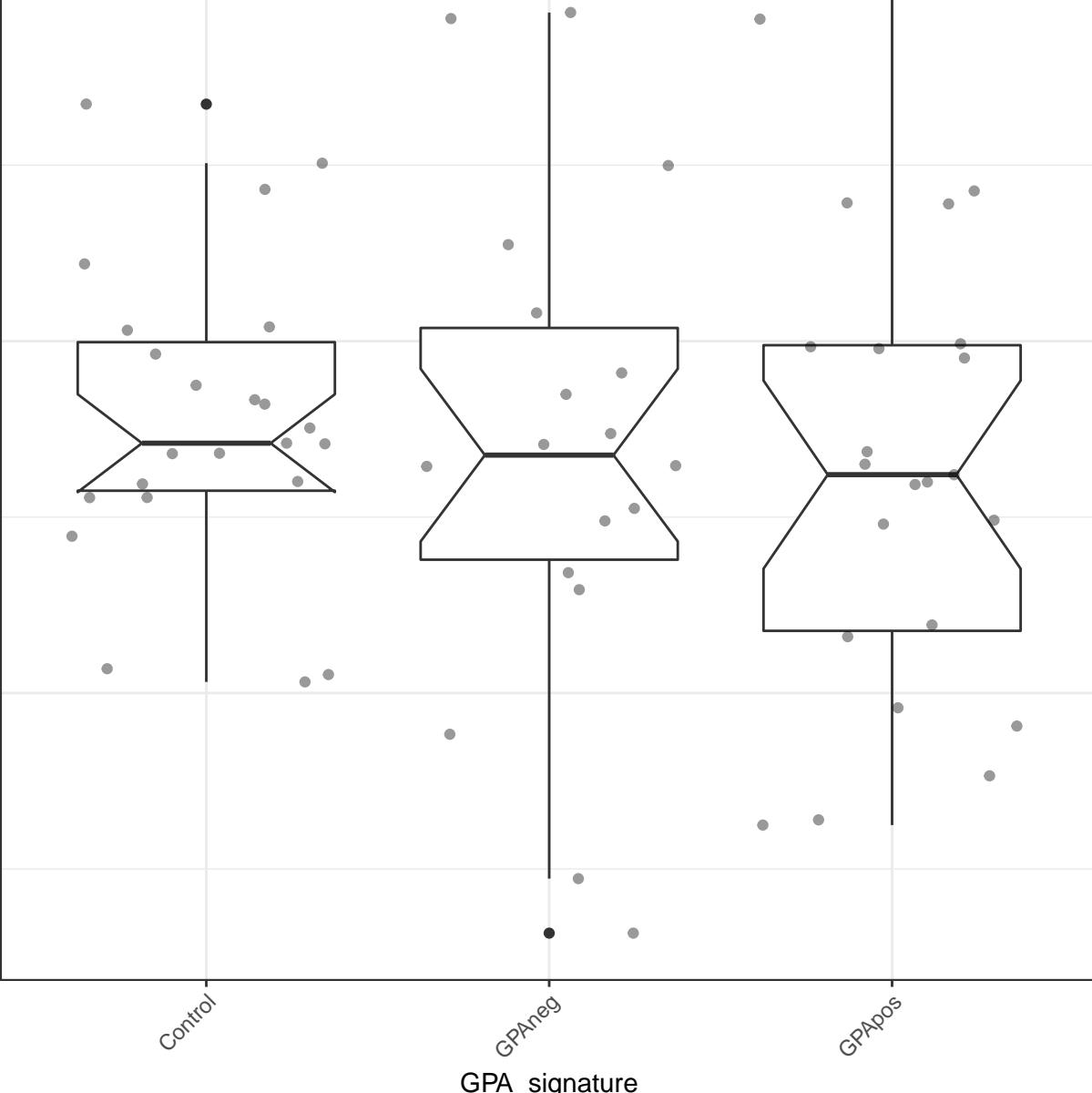
-0.05

Control

GPA\_signature

GPAneg

GPApos



## LV 833

Value

0.10

0.05

0.00

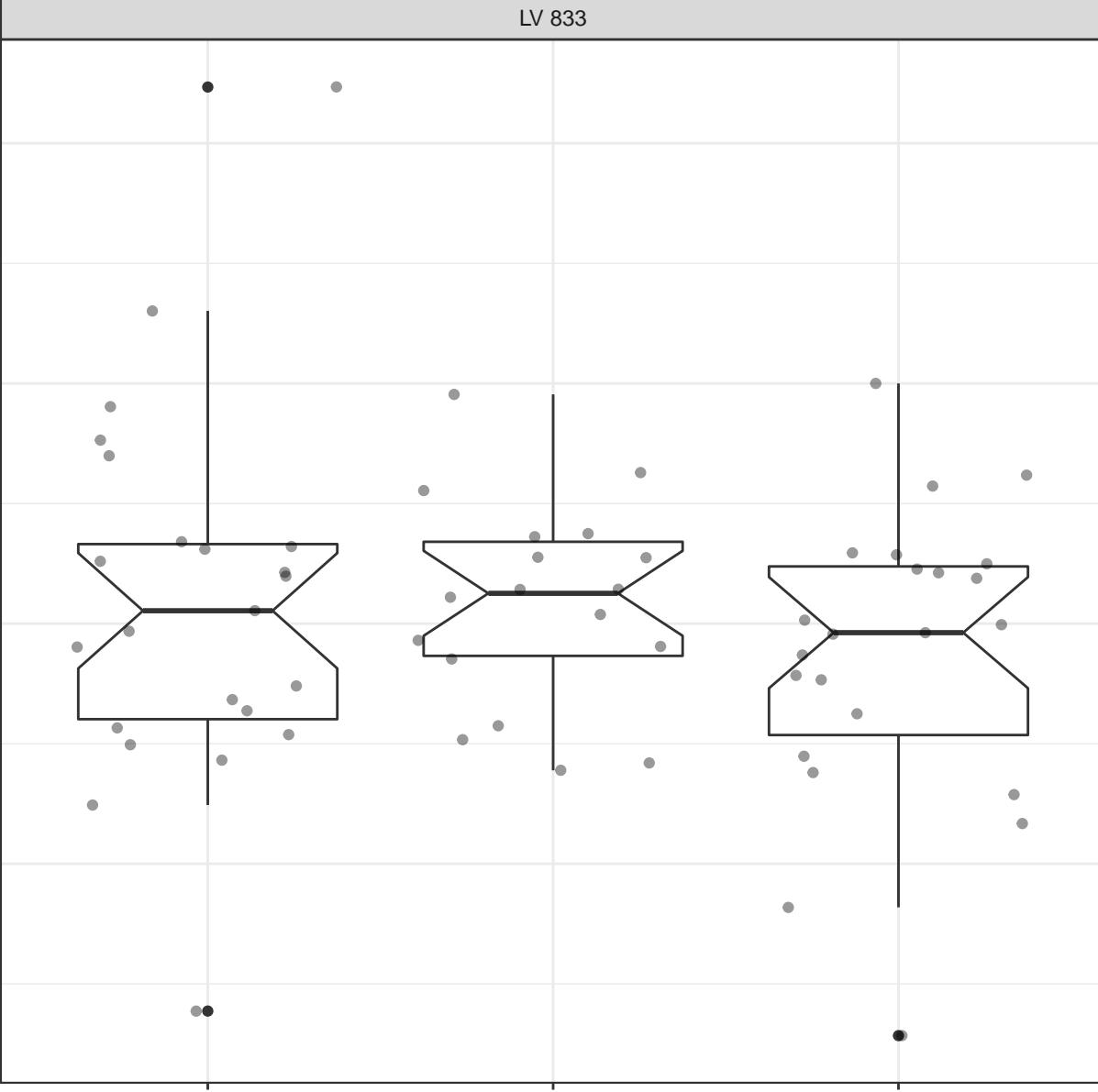
-0.05

Control

GPA\_signature

GPAneg

GPAPos



LV 834

Value

0.08

0.04

0.01

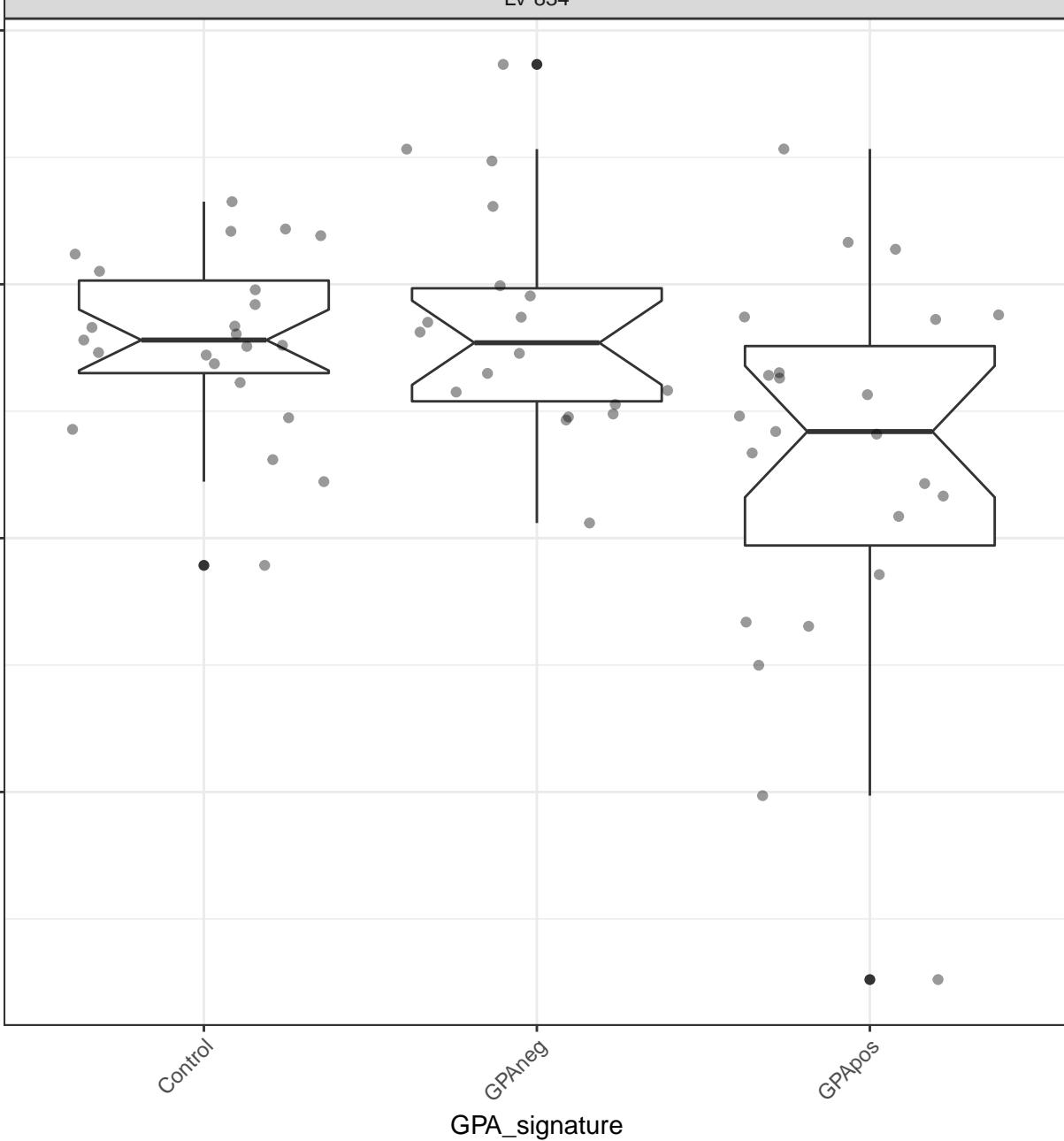
-0.04

Control

GPAneg

GPApos

GPA\_signature



LV 835

Value

0.05

0.00

-0.05

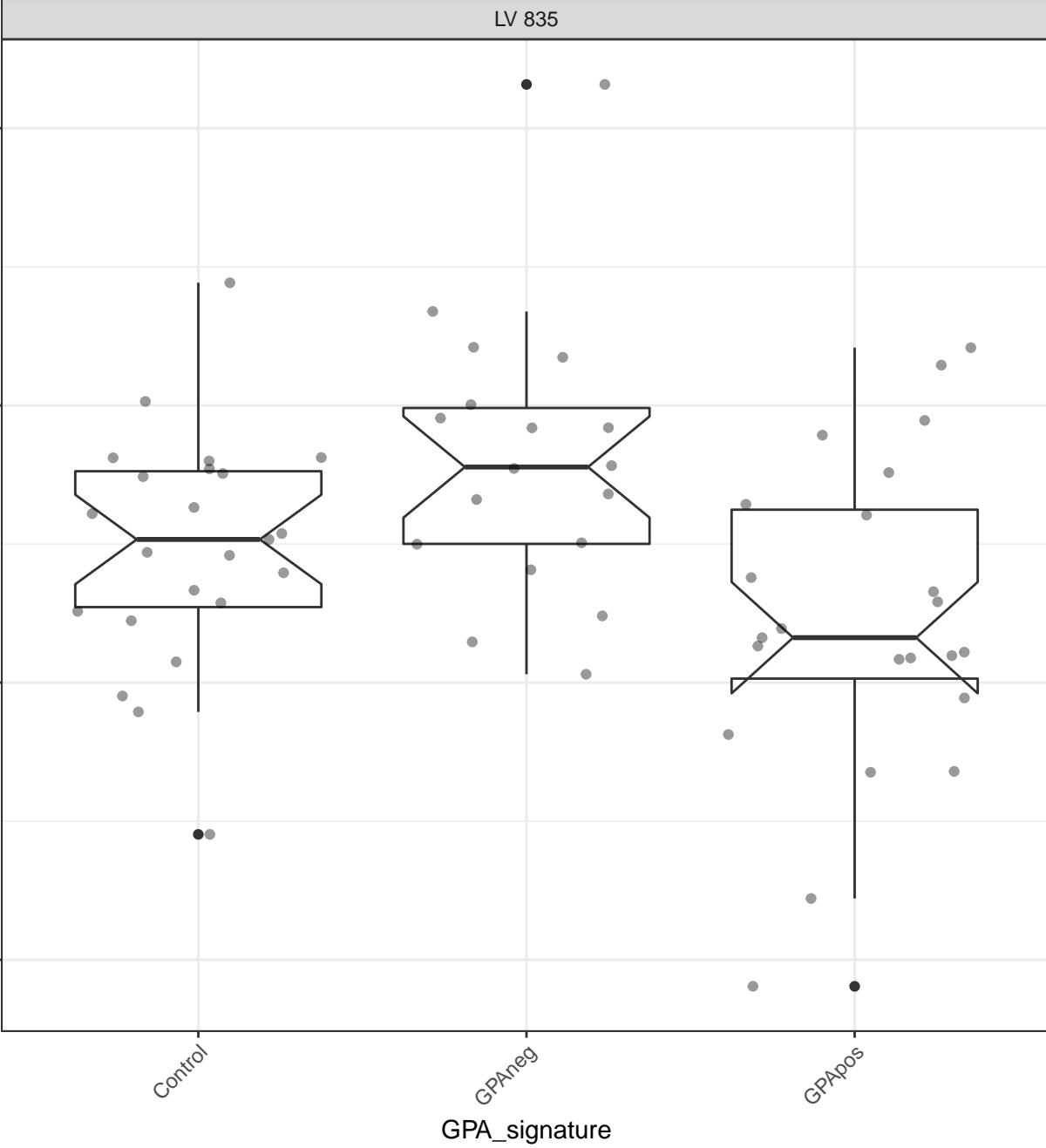
-0.10

Control

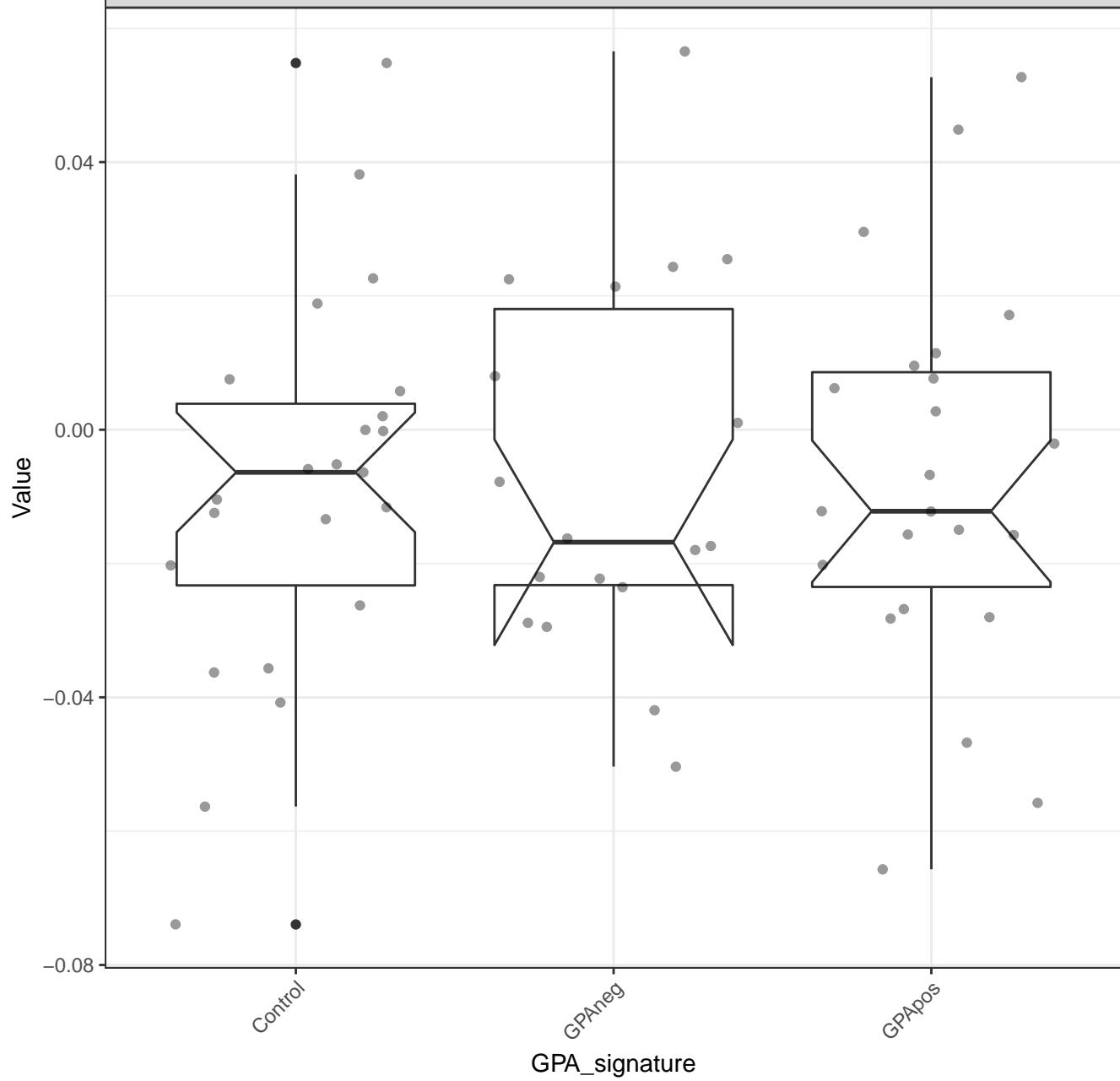
GPAneg

GPAPos

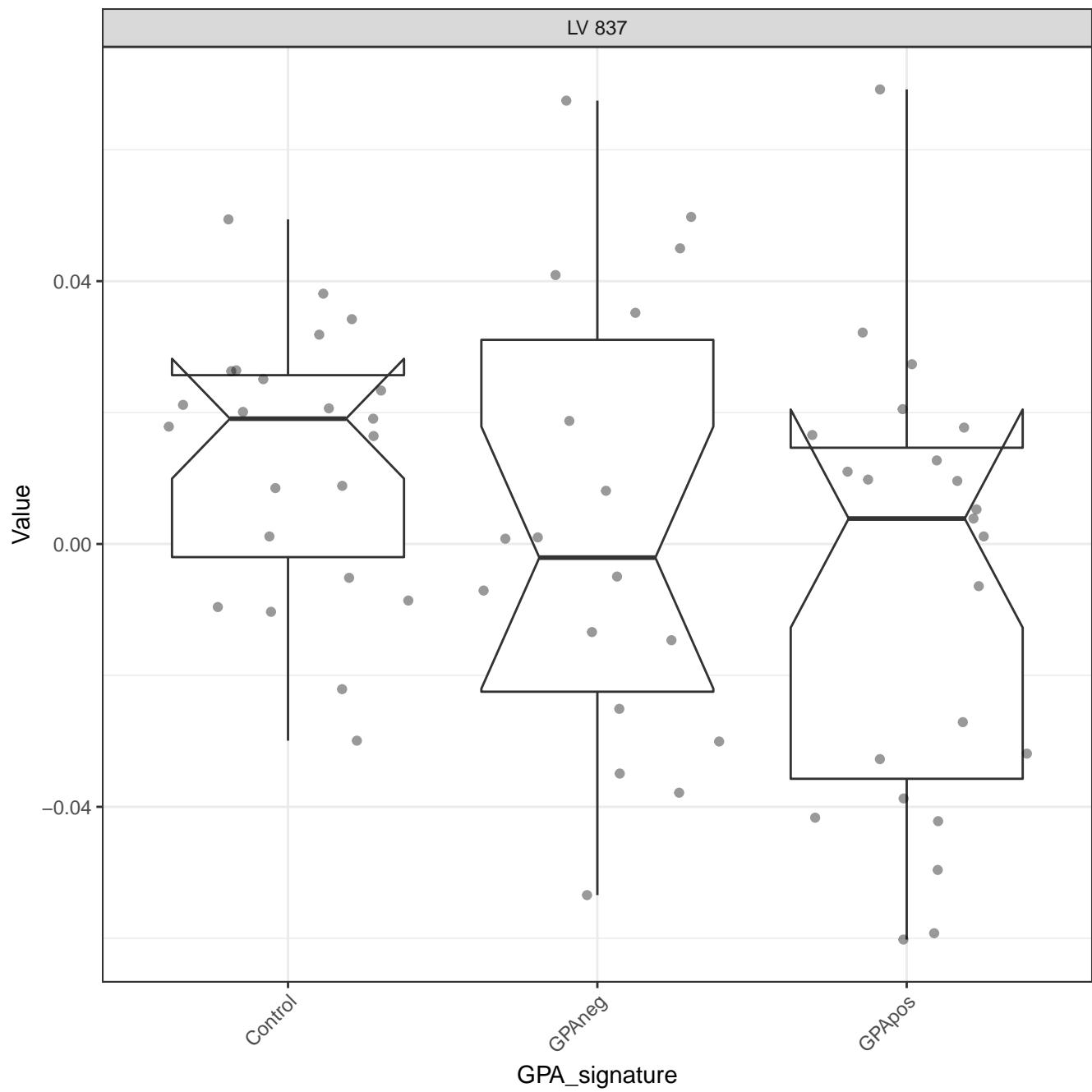
GPA\_signature



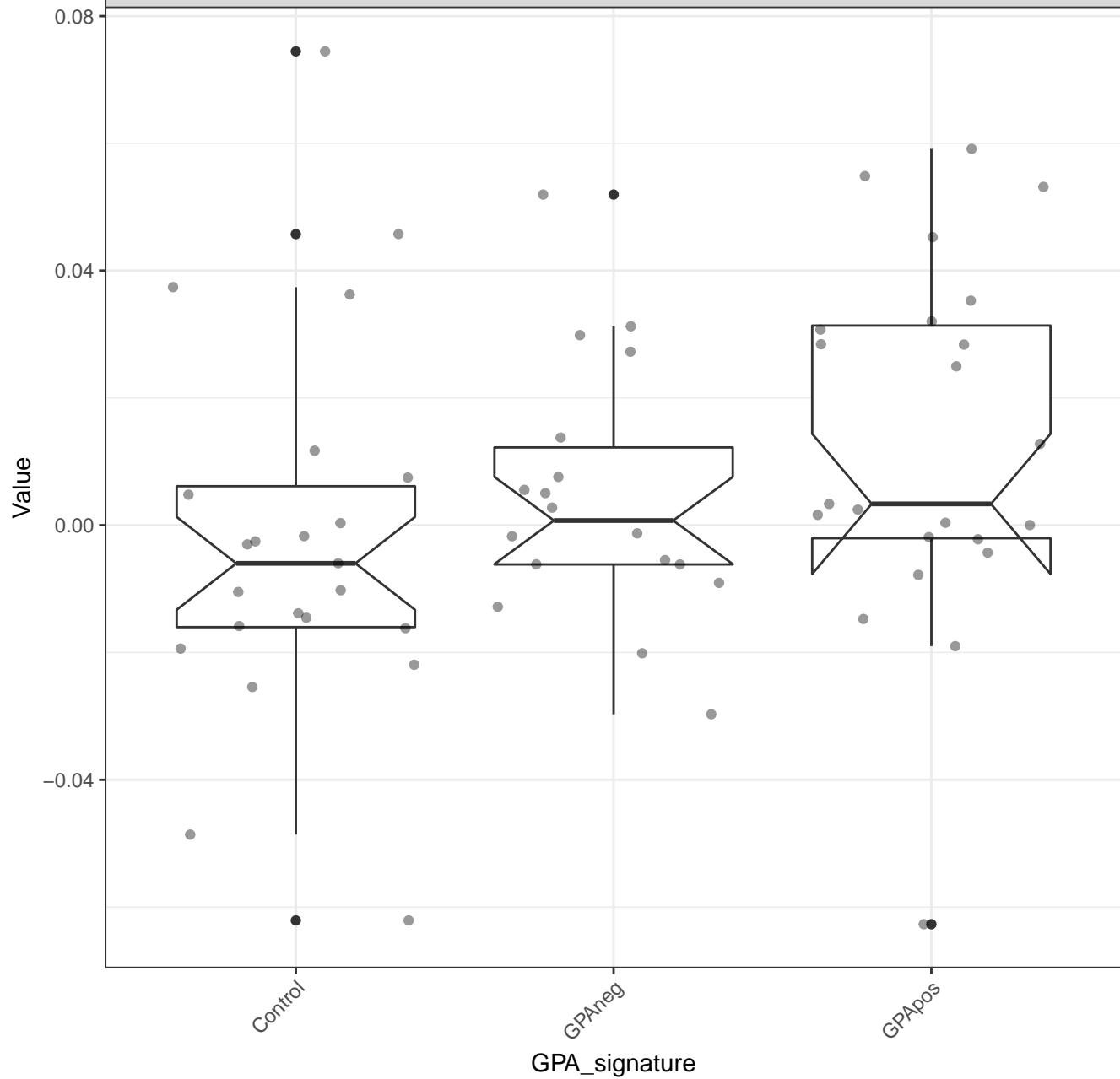
## LV 836



LV 837



LV 838



Value

0.00

-0.02

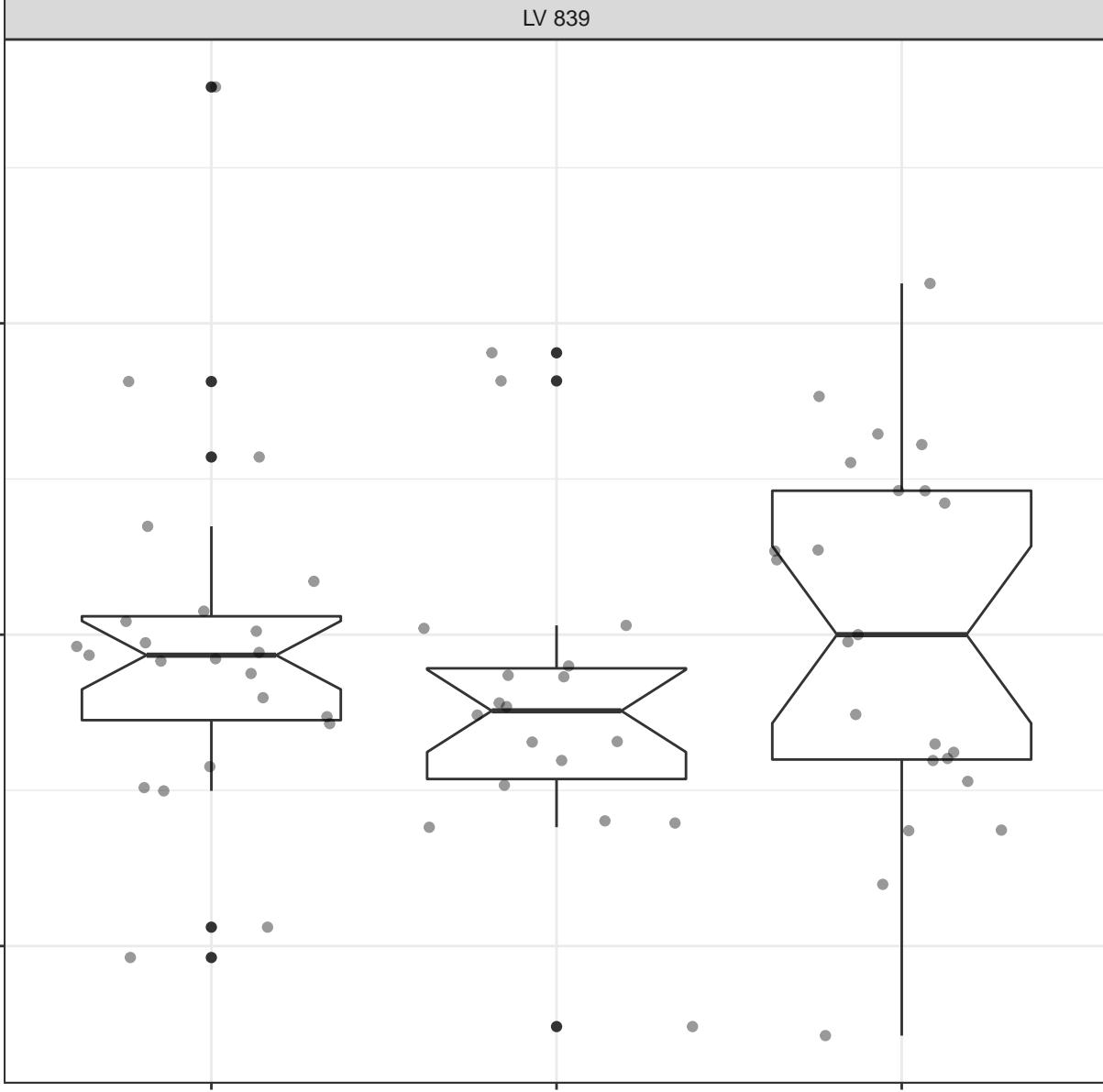
-0.04

Control

GPA\_signature

GPAneg

GPApos



## 840,MIPS\_39S\_RIBOSOMAL\_SUBUNIT\_MITOCHONDRIAL

Value

0.4

0.3

0.2

0.1

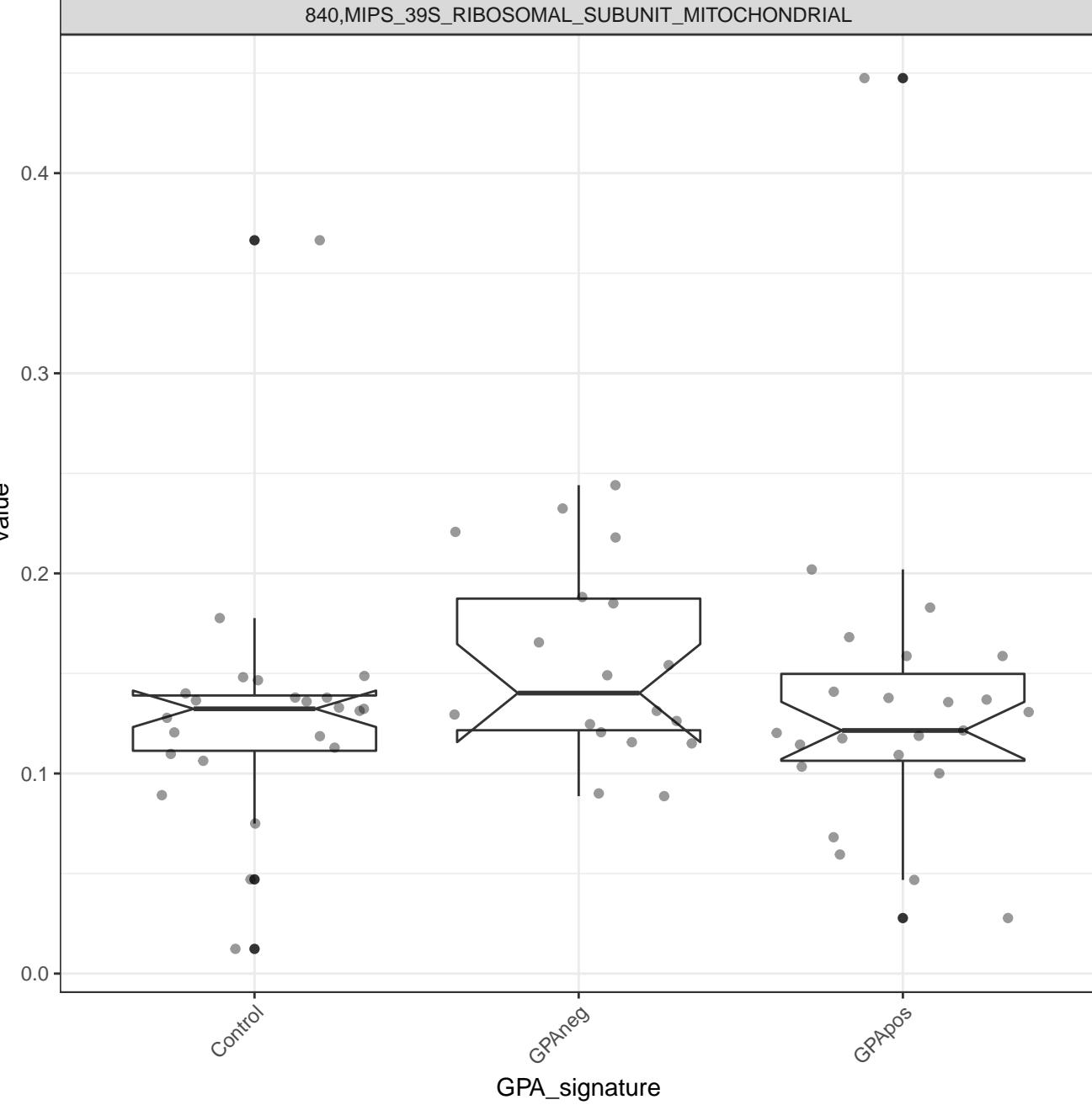
0.0

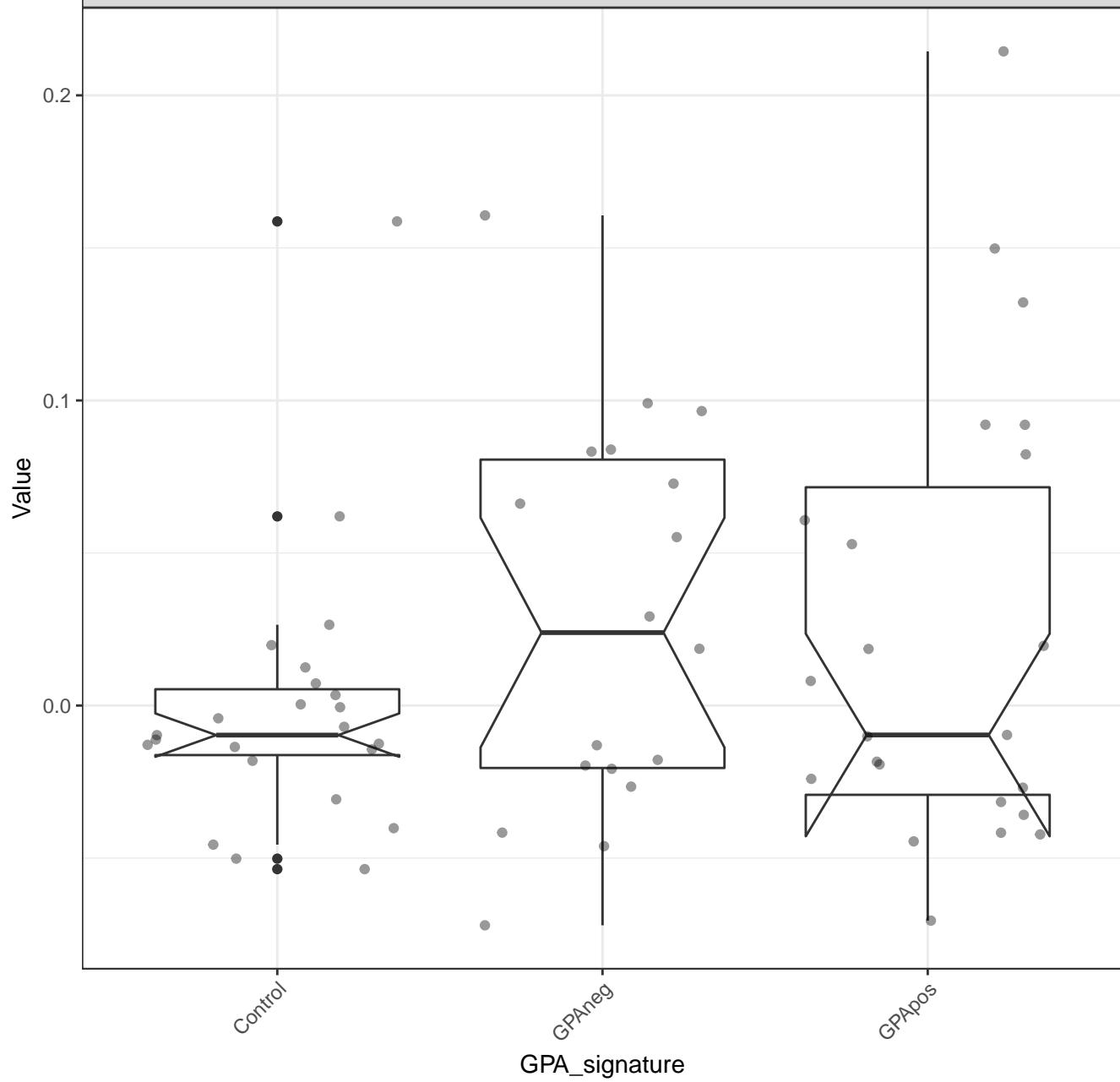
Control

GPA\_signature

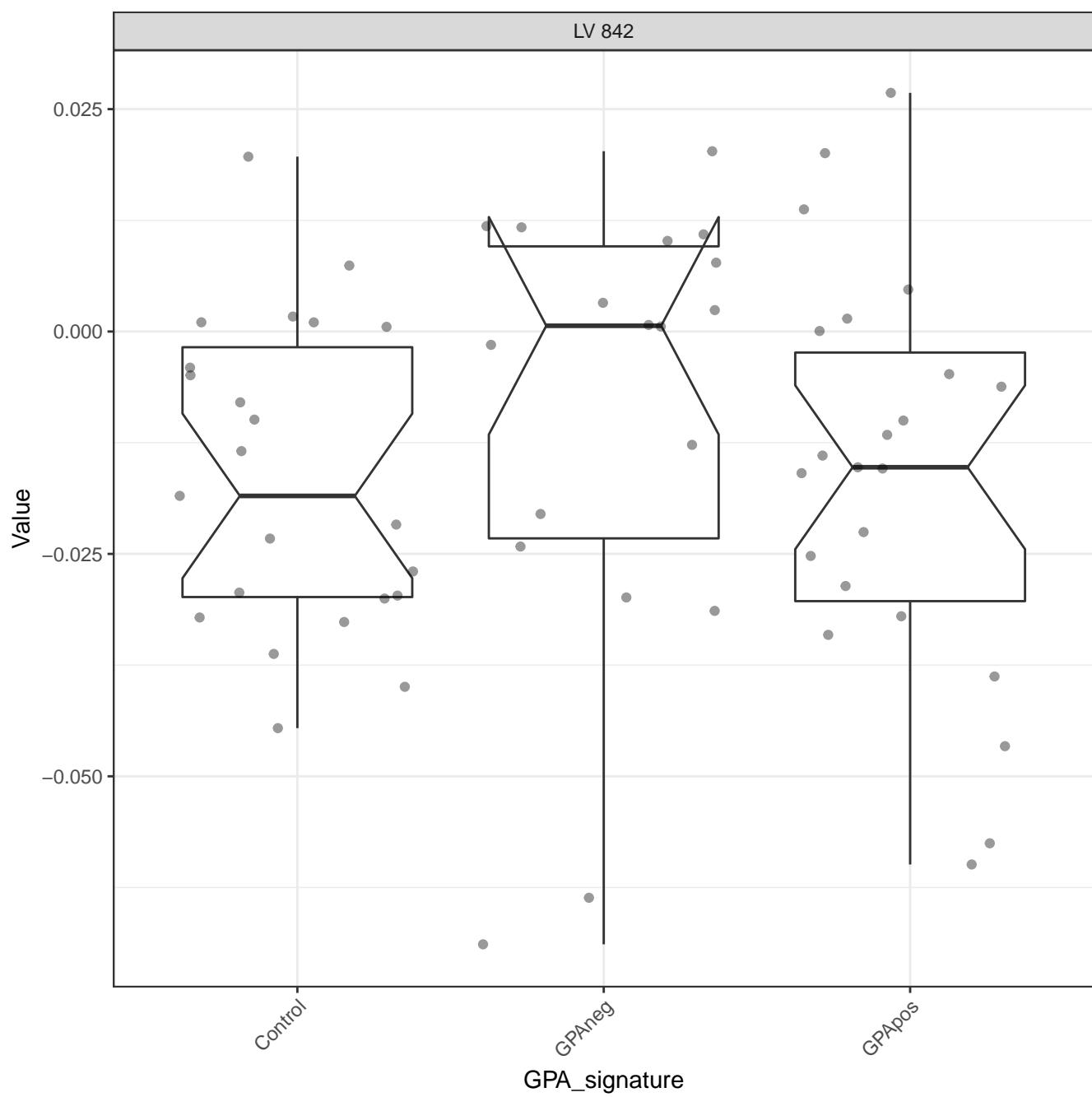
GPAneg

GPAPos





LV 842



Value

0.05

0.00

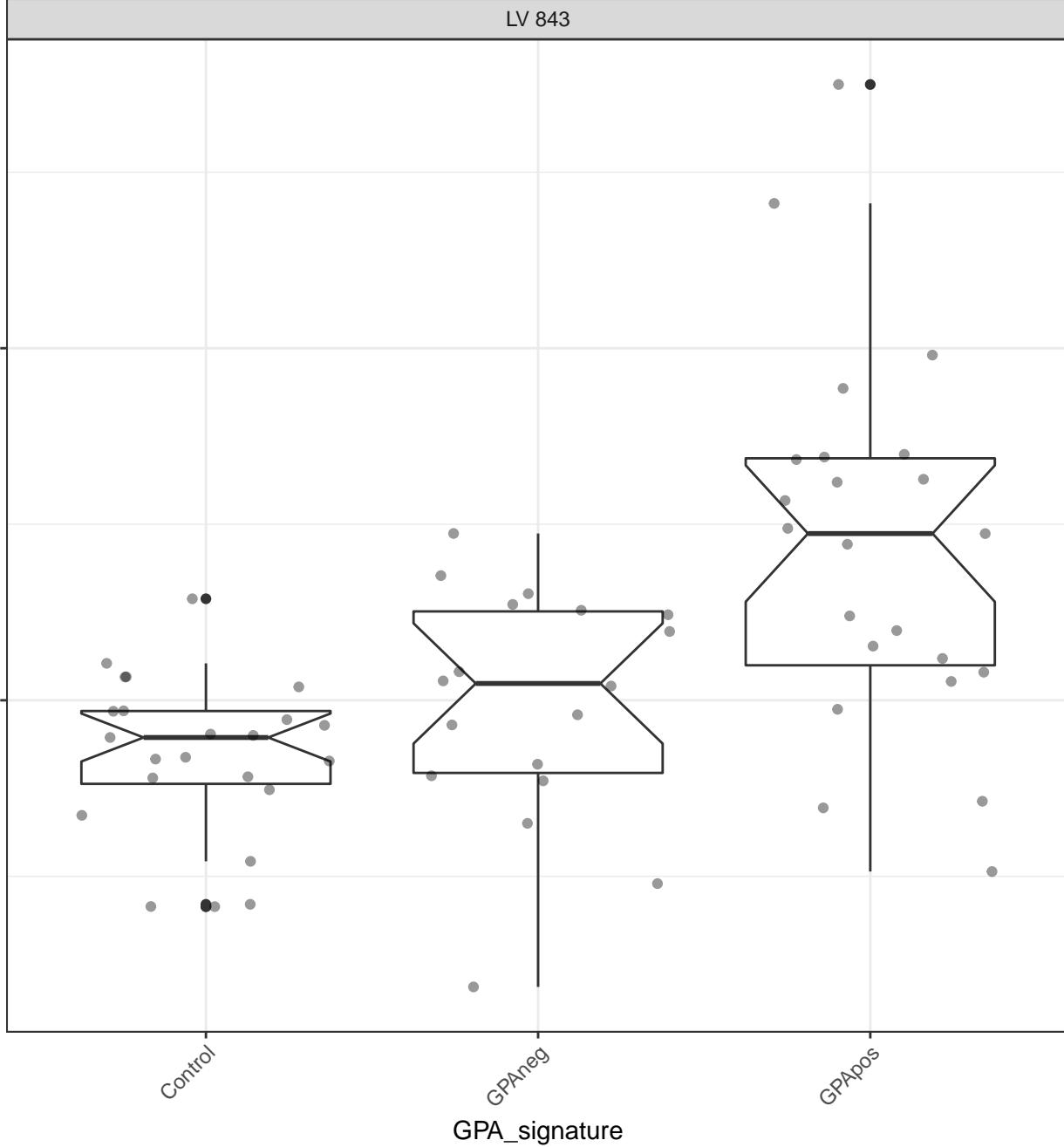
-0.05

Control

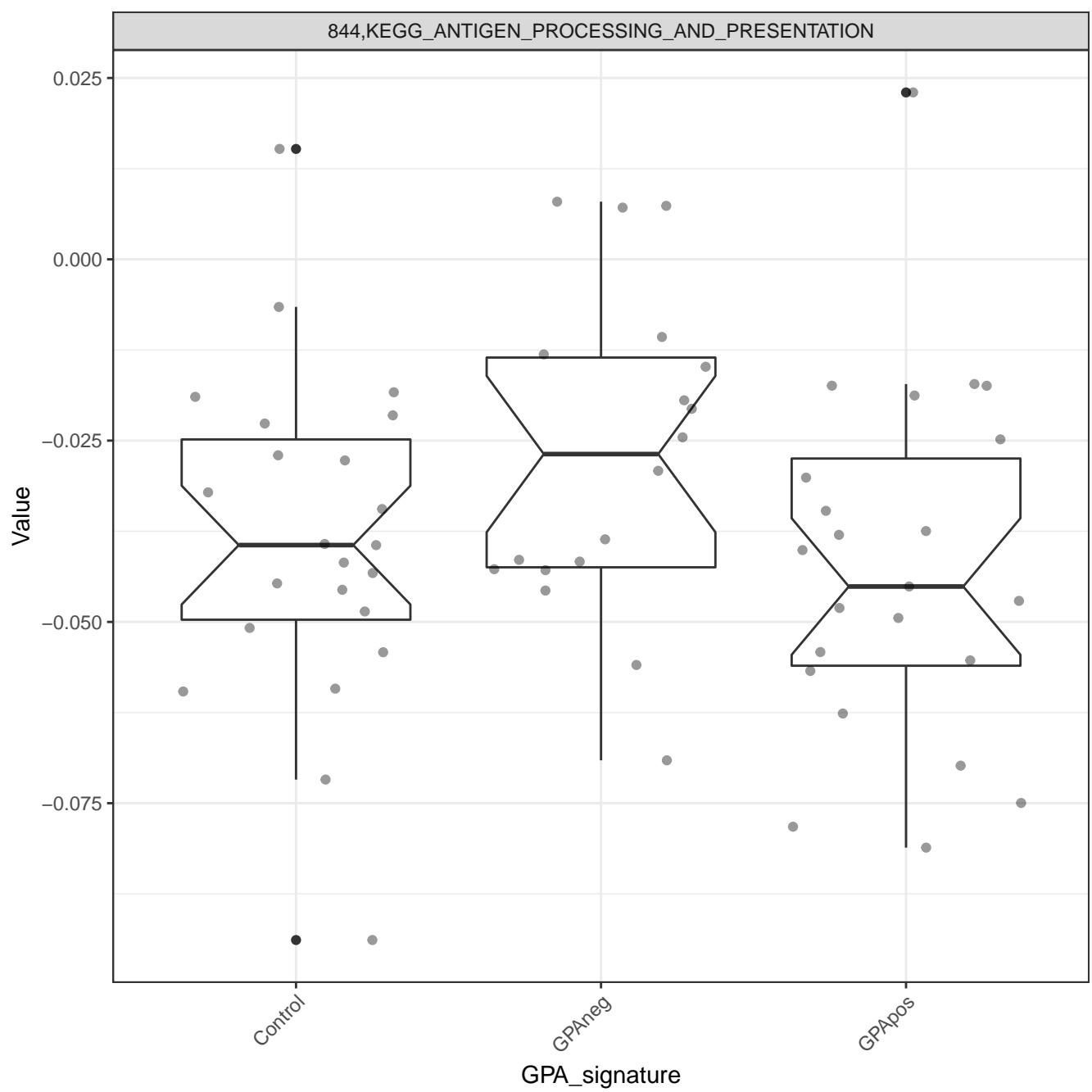
GPA\_signature

GPAneg

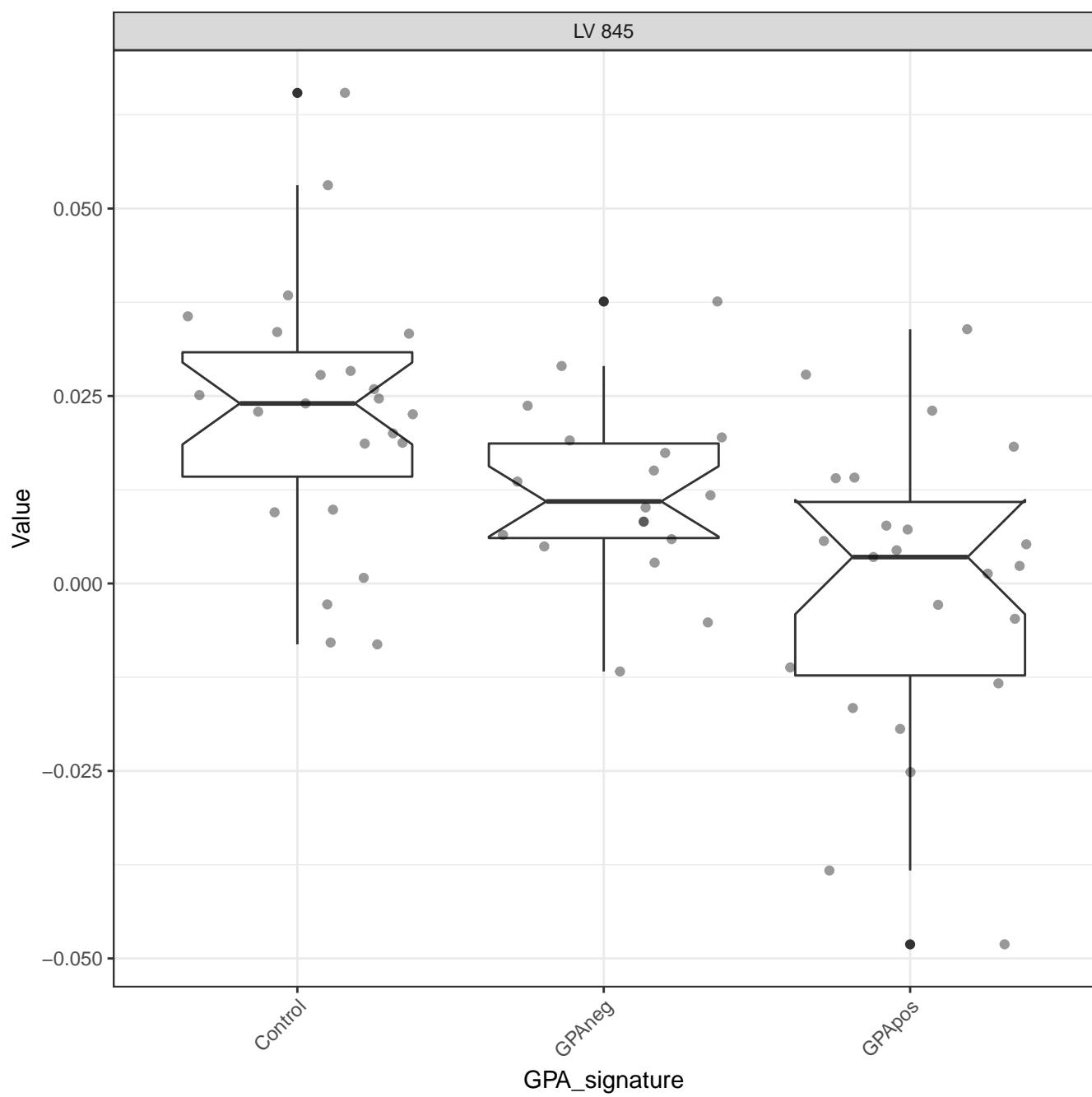
GPAPos



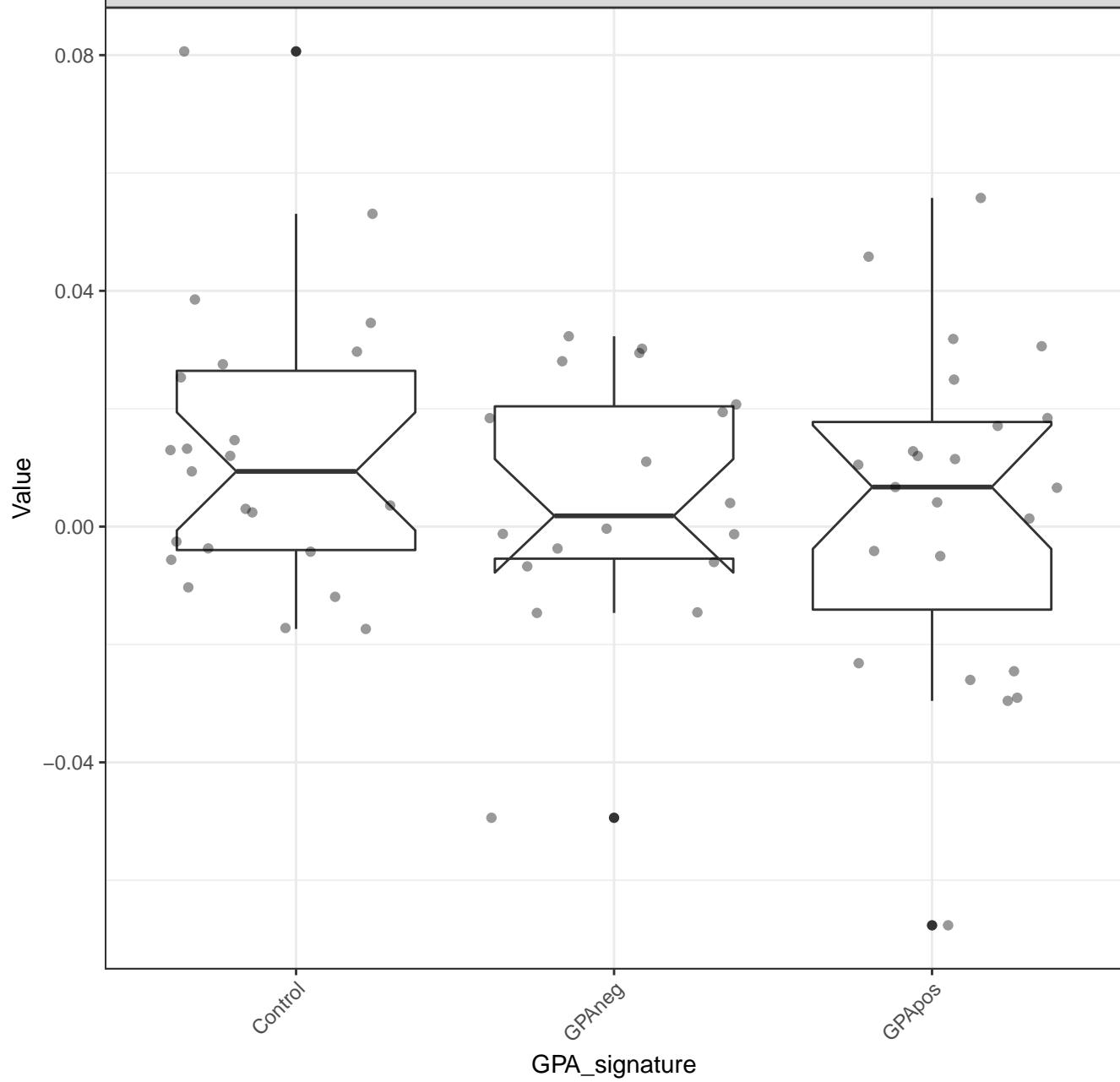
# 844,KEGG\_ANTIGEN\_PROCESSING\_AND\_PRESENTATION



## LV 845



LV 846



## 847,REACTOME\_AMYLOIDS

Value

0.05

0.00

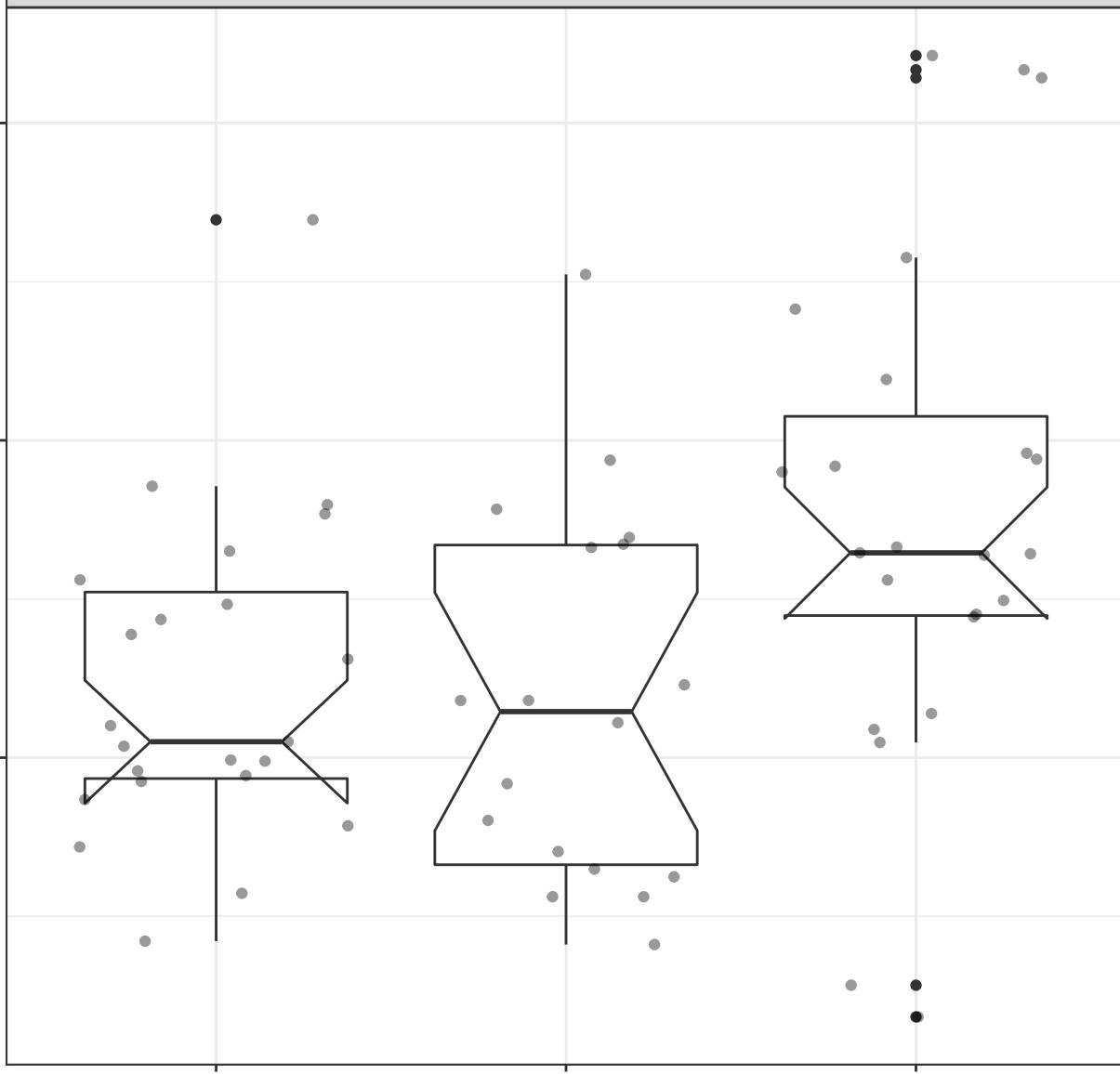
-0.05

Control

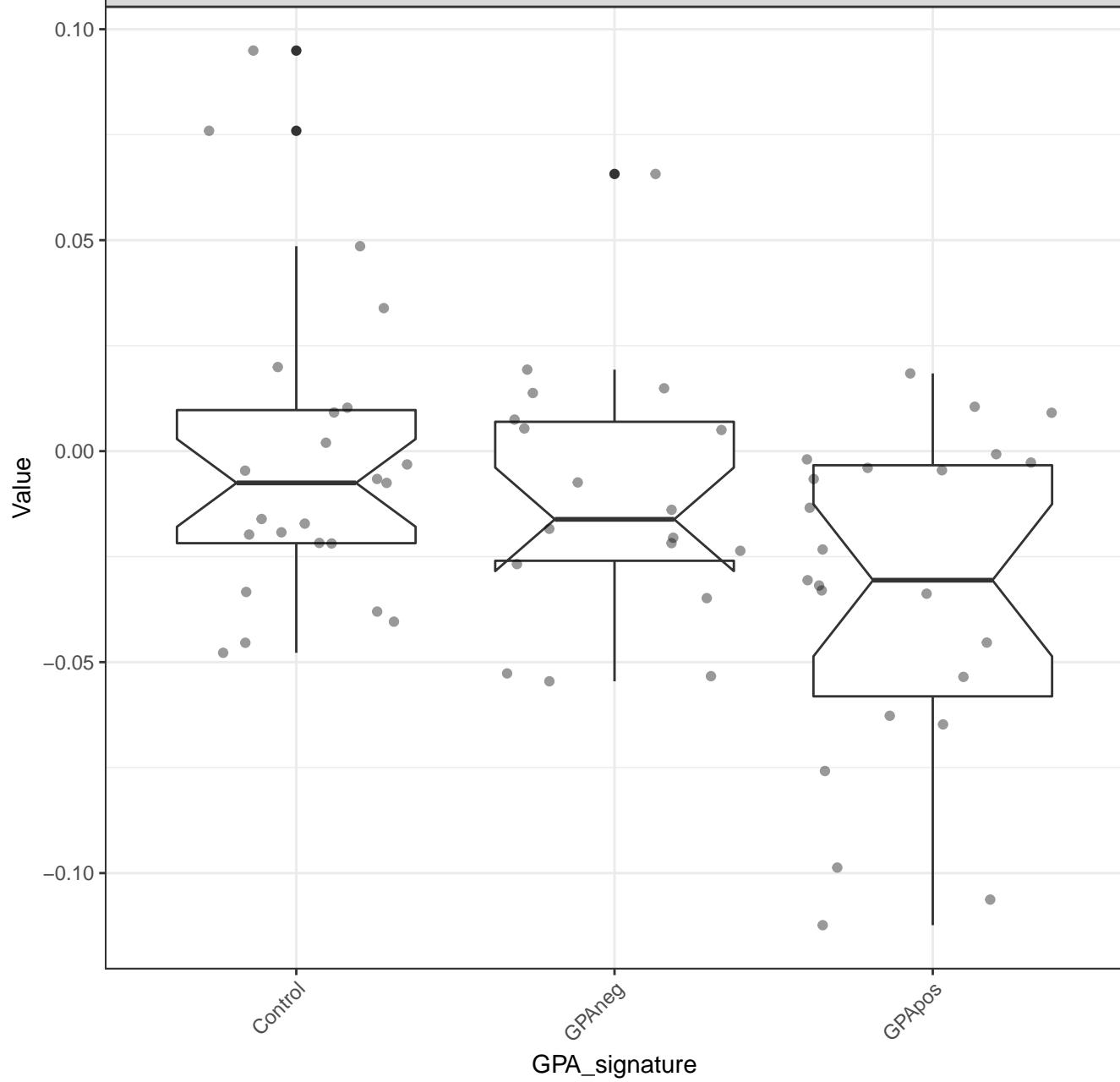
GPA\_signature

GPNeg

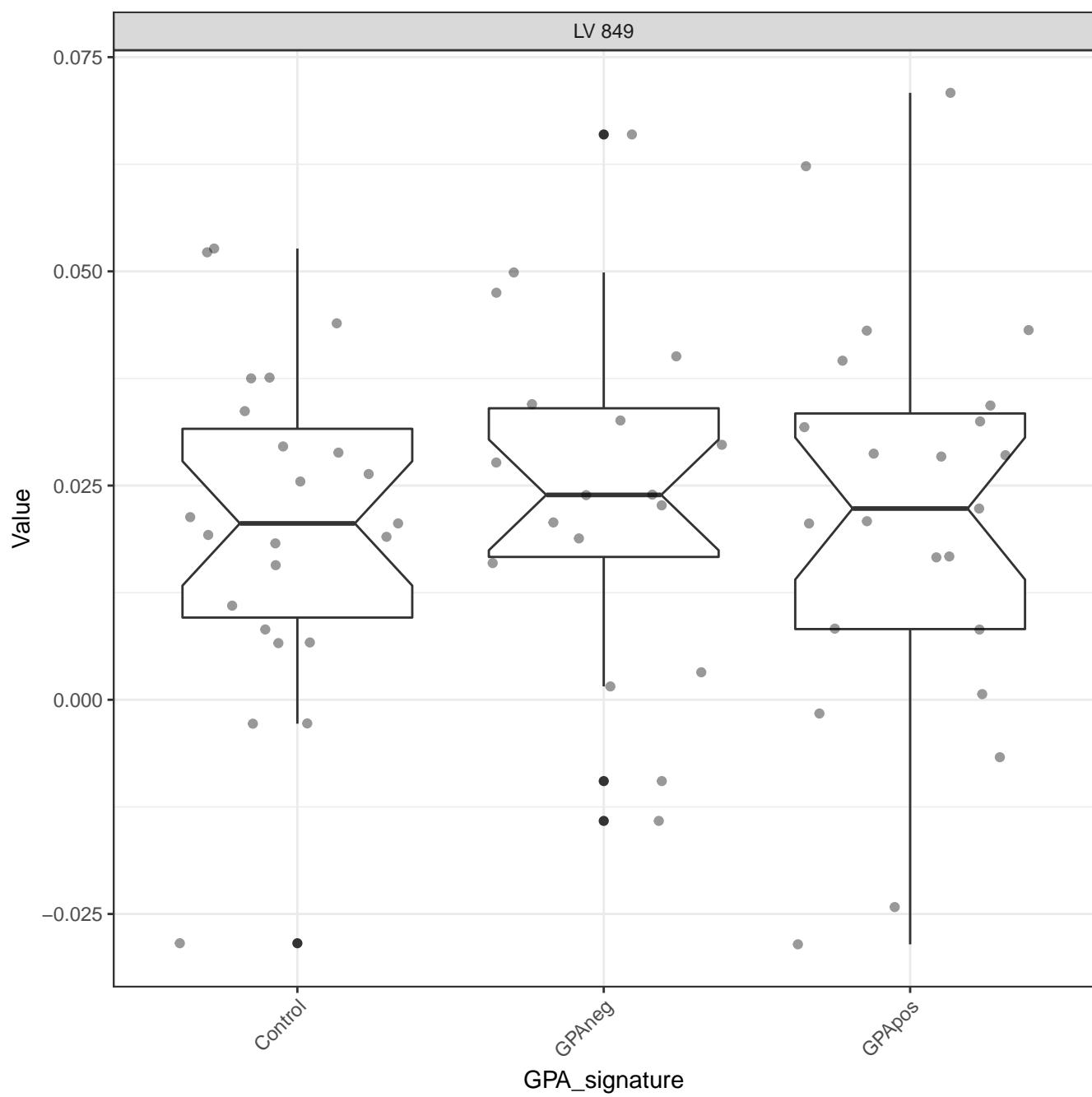
GPAPos



## 848,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



LV 849



LV 850

Value

0.02

0.00

-0.02

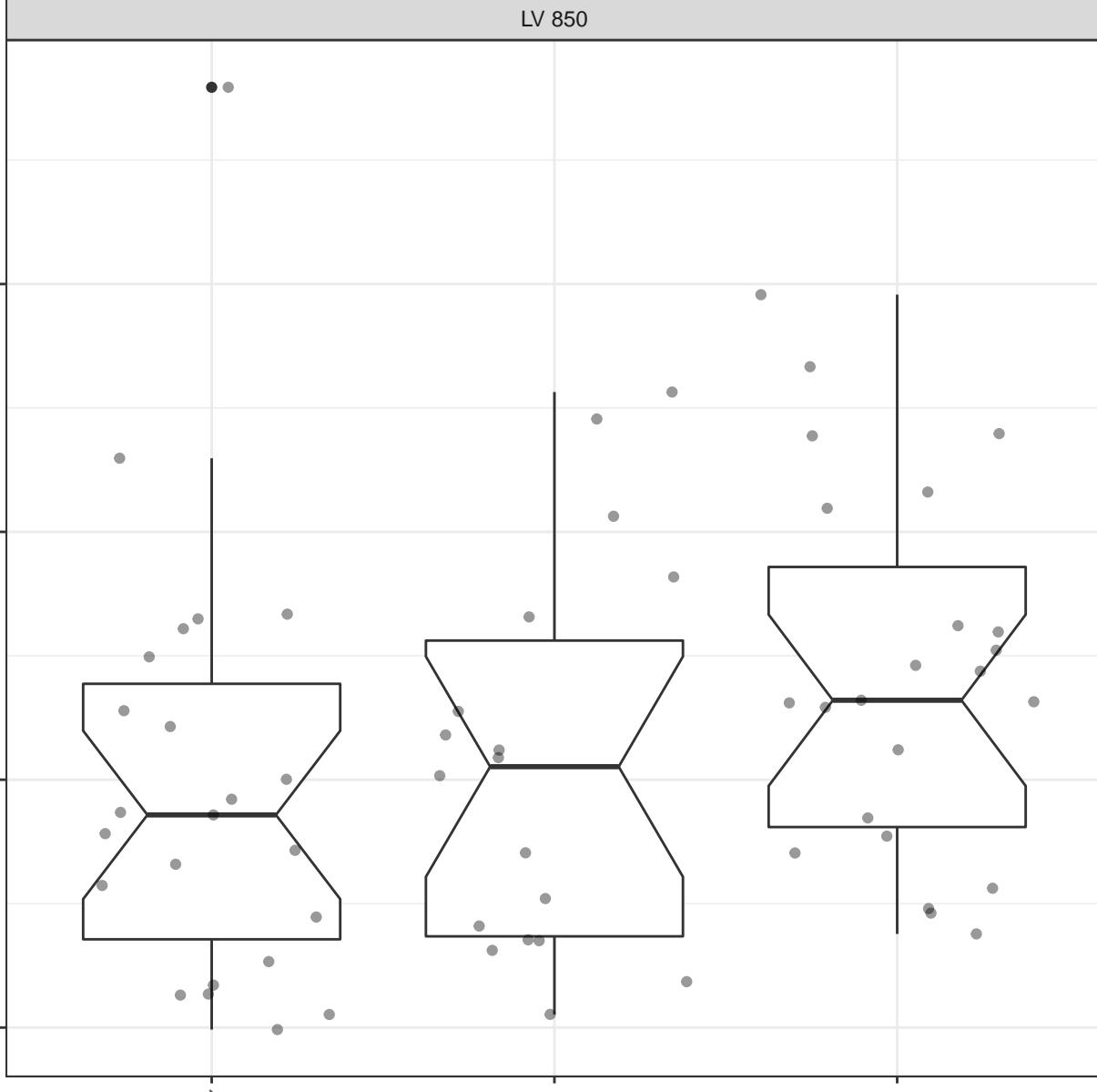
-0.04

Control

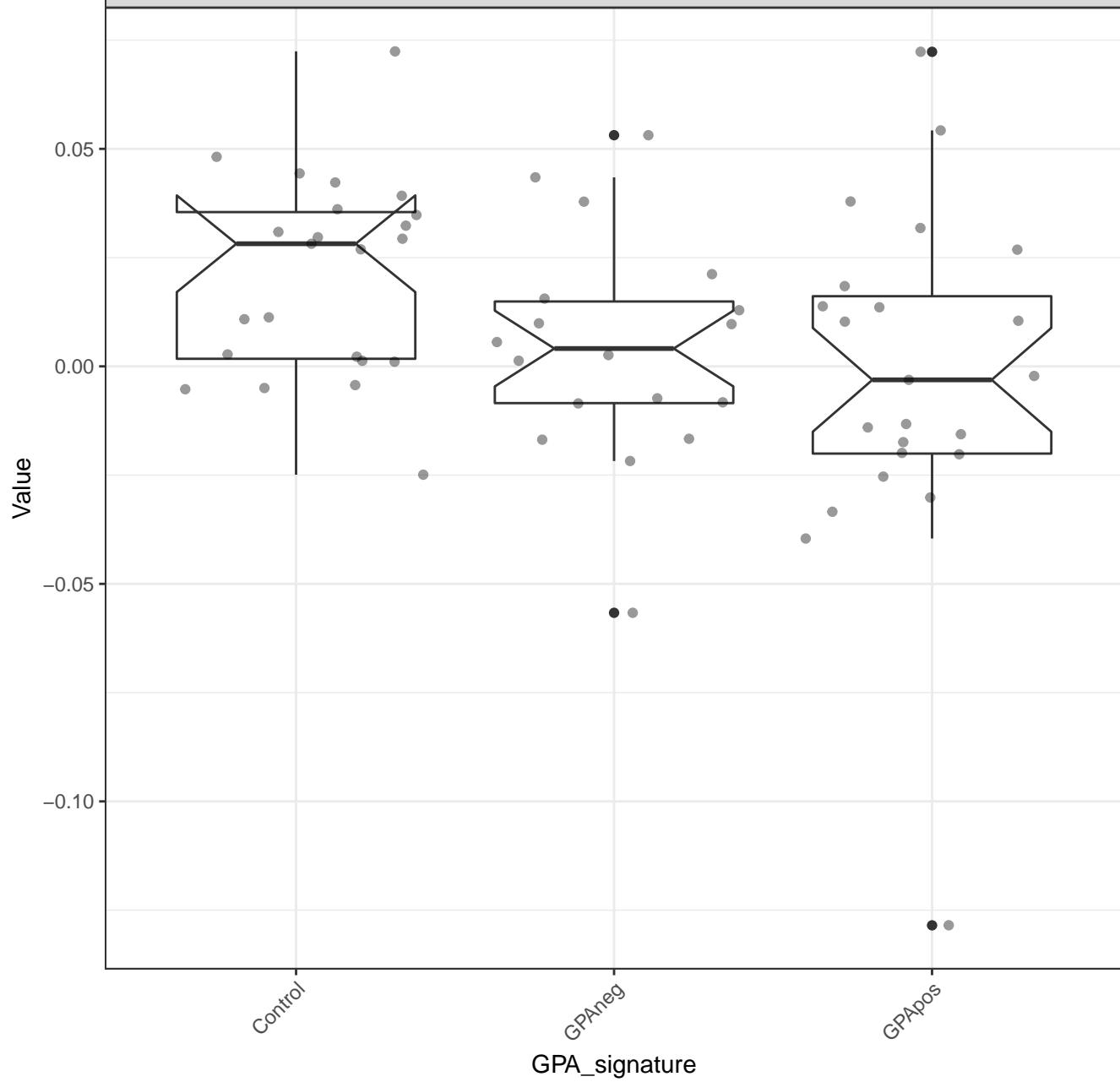
GPA\_signature

GPAneg

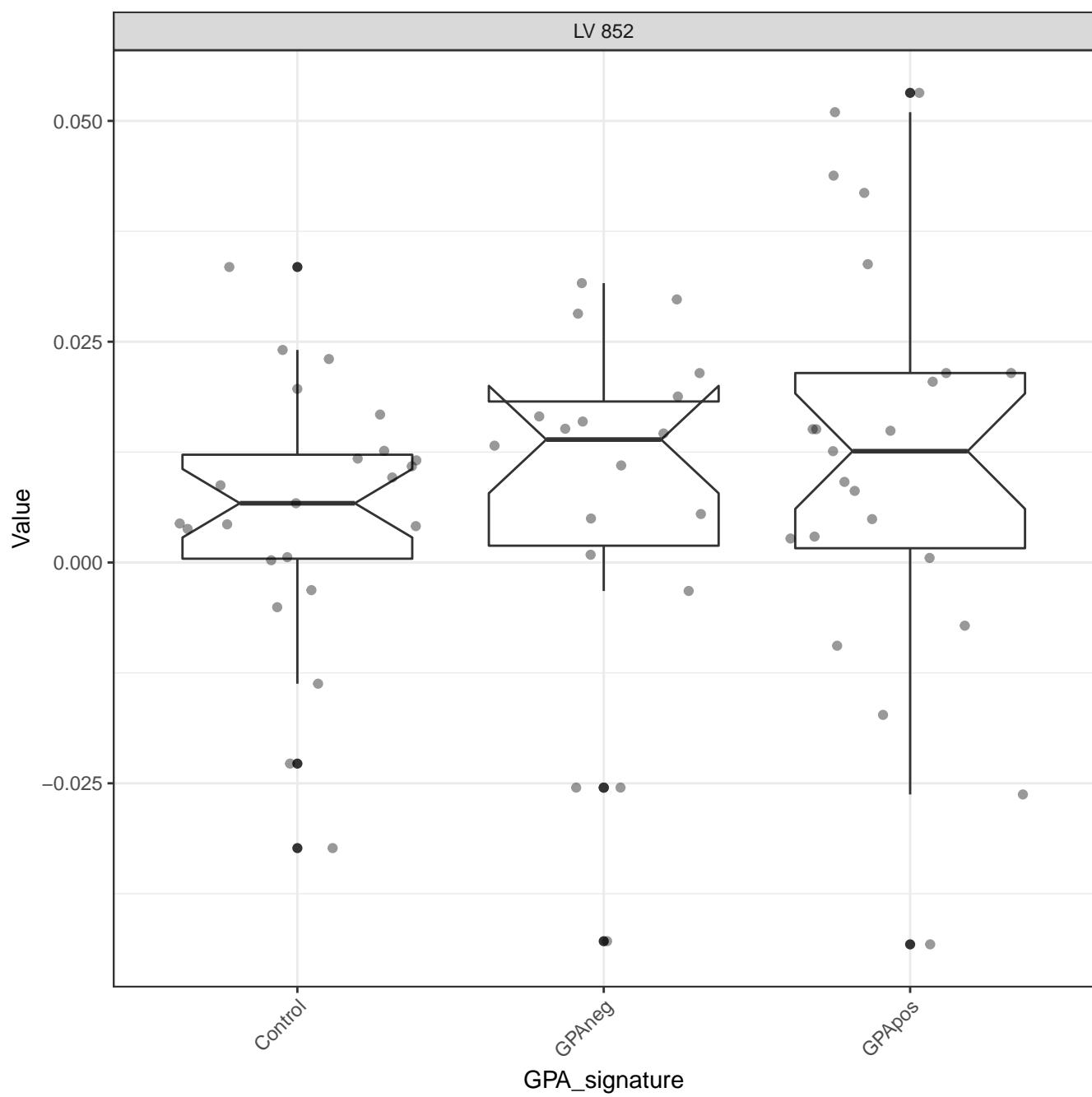
GPApos



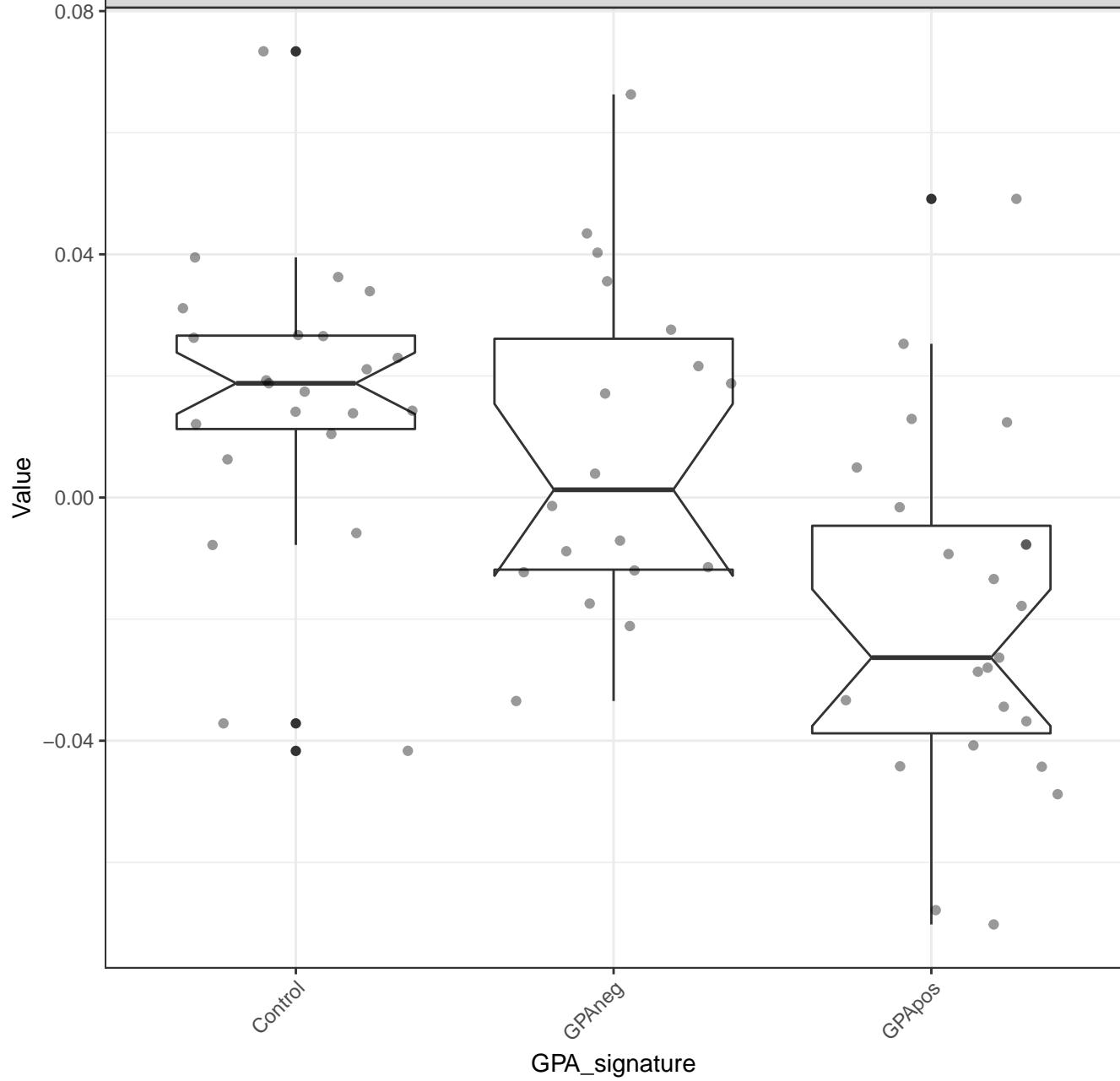
LV 851



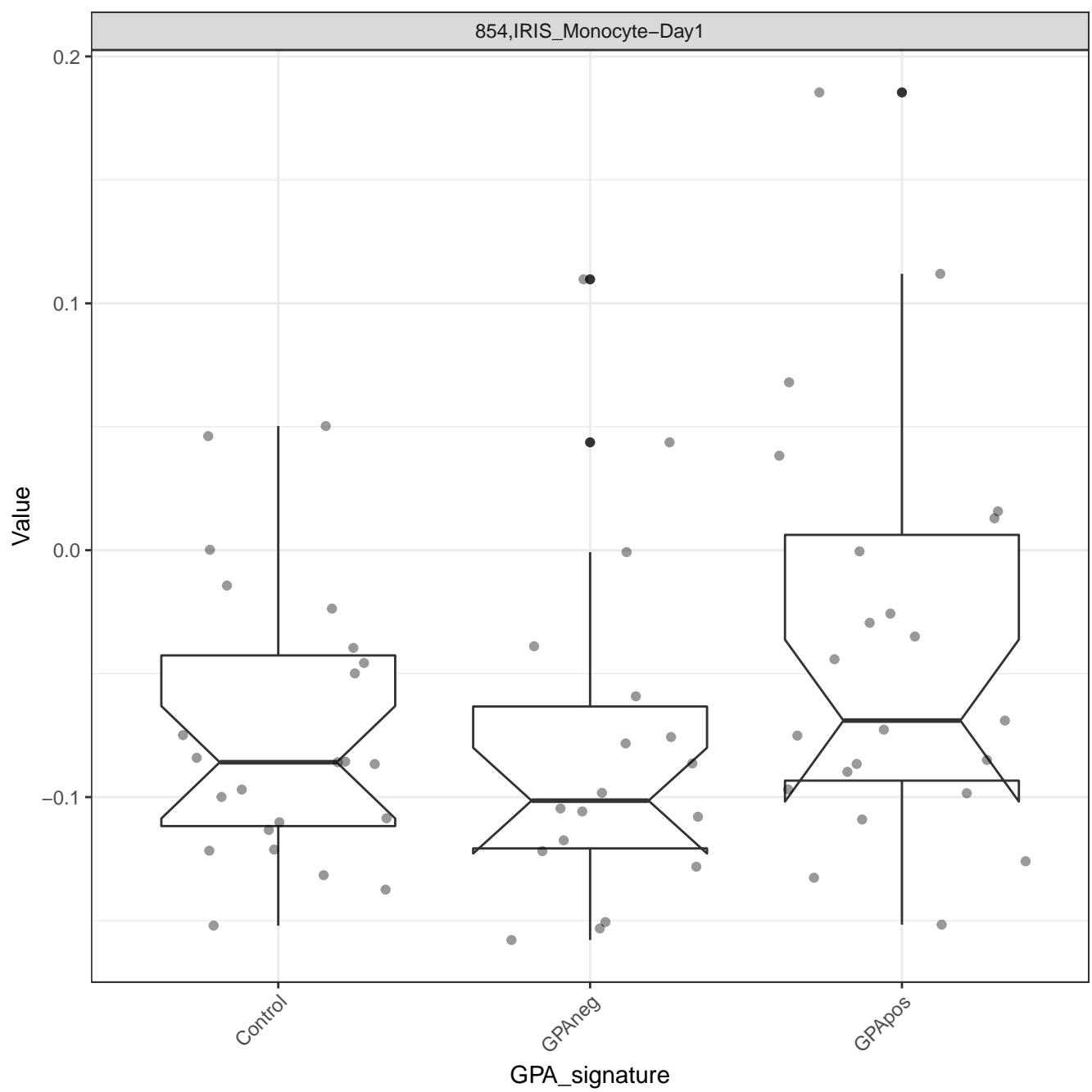
## LV 852



LV 853



## 854,IRIS\_Monocyte–Day1



LV 855

Value

0.05

0.00

-0.05

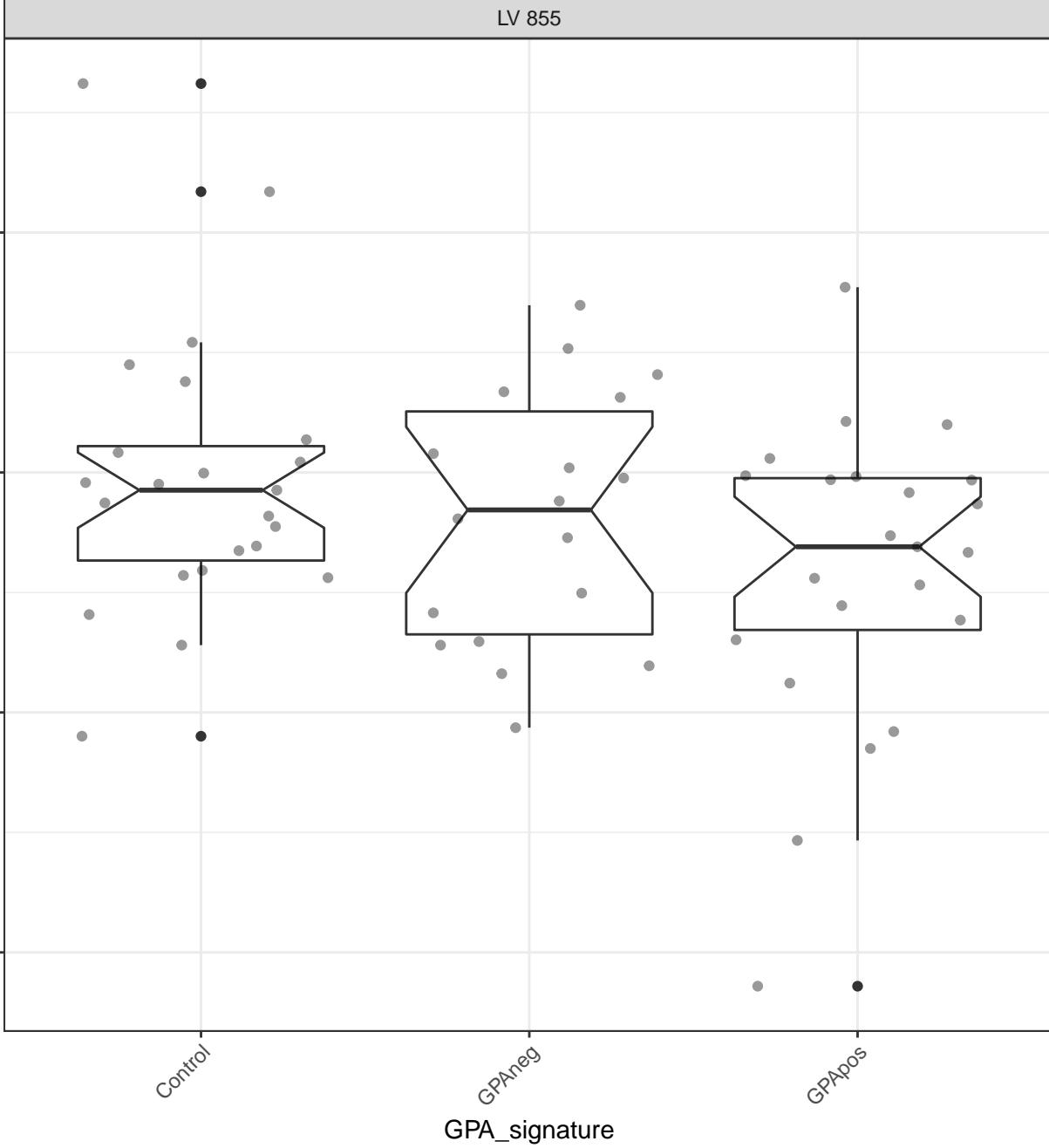
-0.10

Control

GPAneg

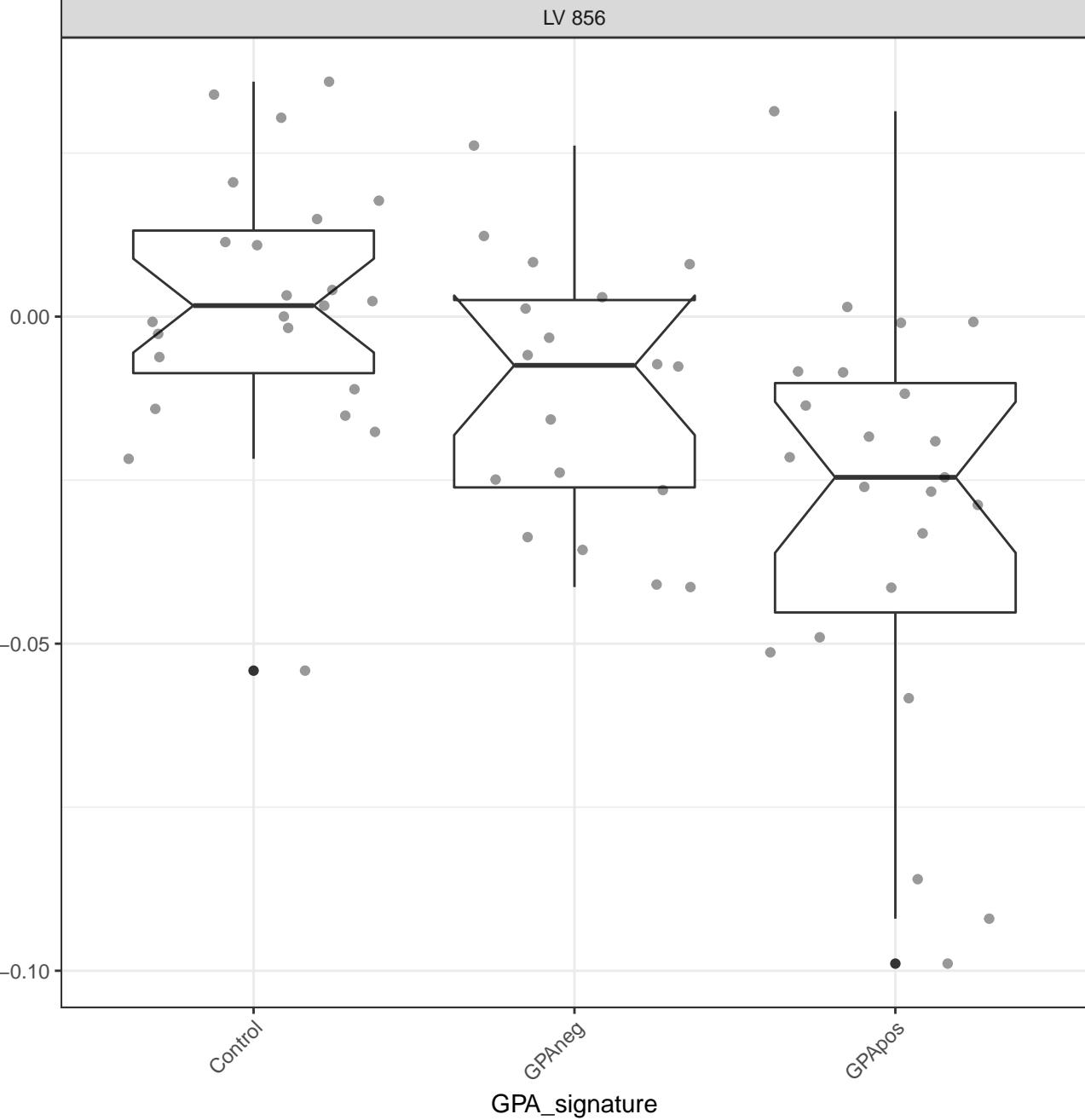
GPApos

GPA\_signature



## LV 856

Value



LV 857

Value

0.05

0.00

-0.05

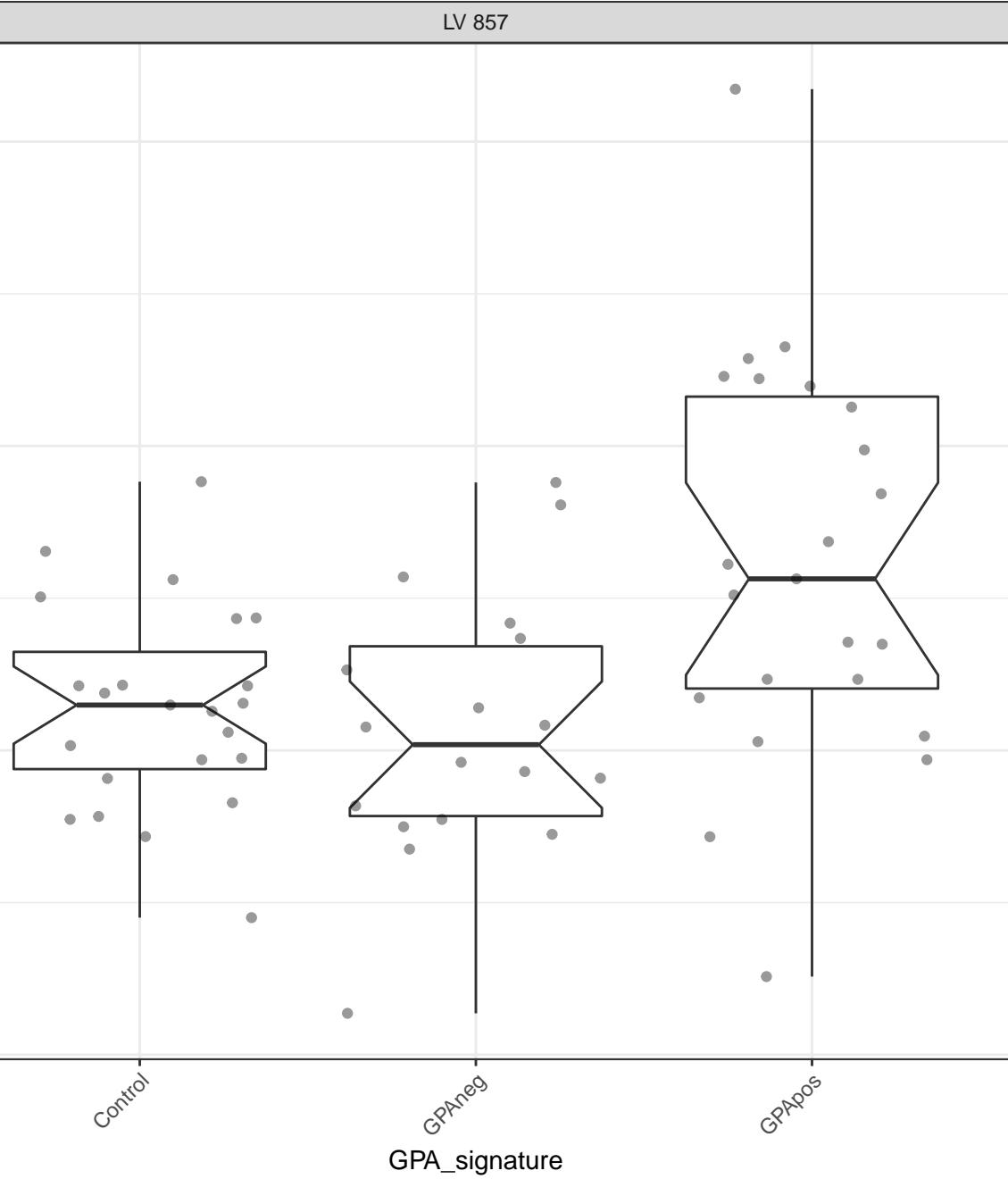
-0.10

Control

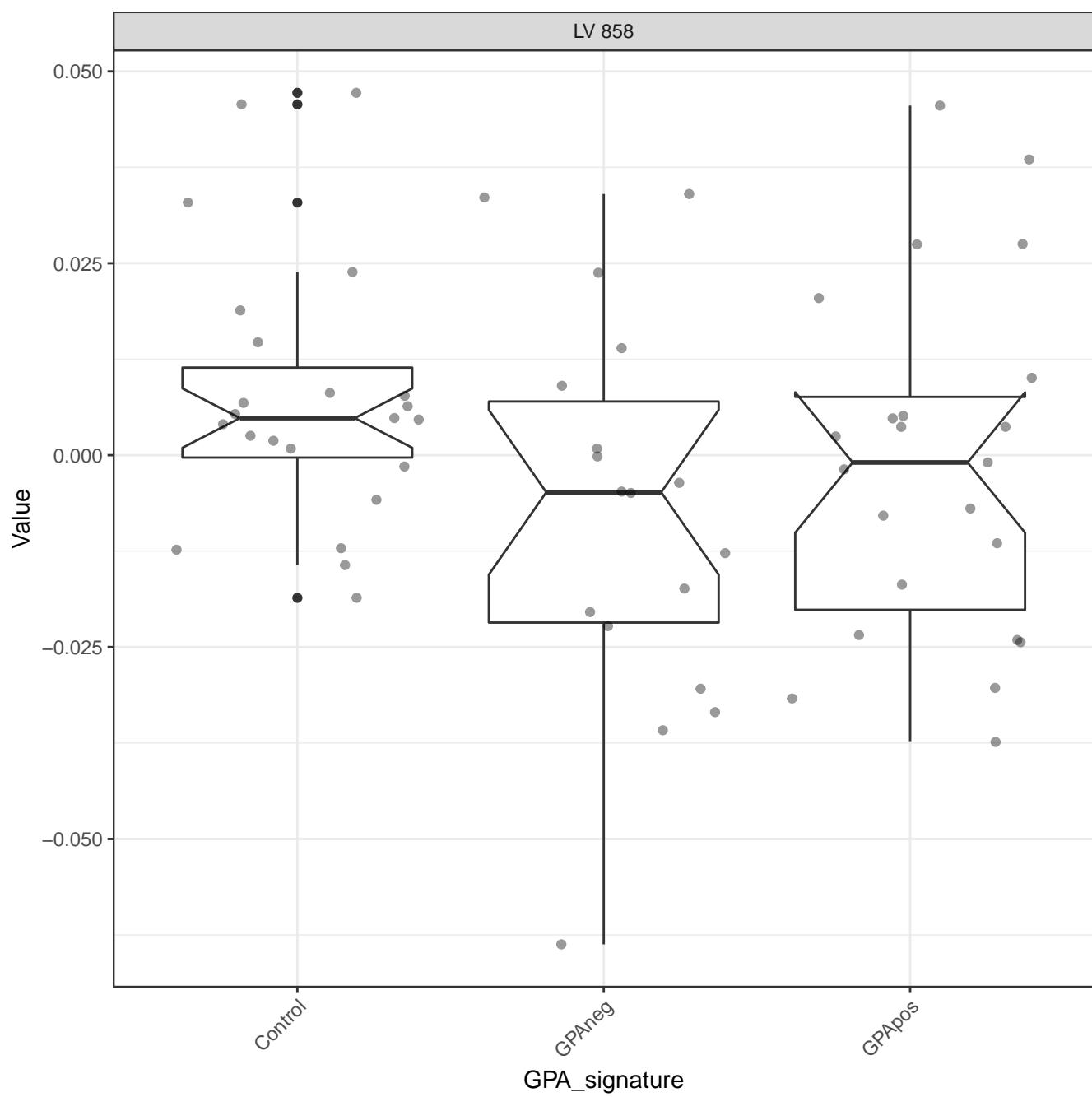
GPAneg

GPApos

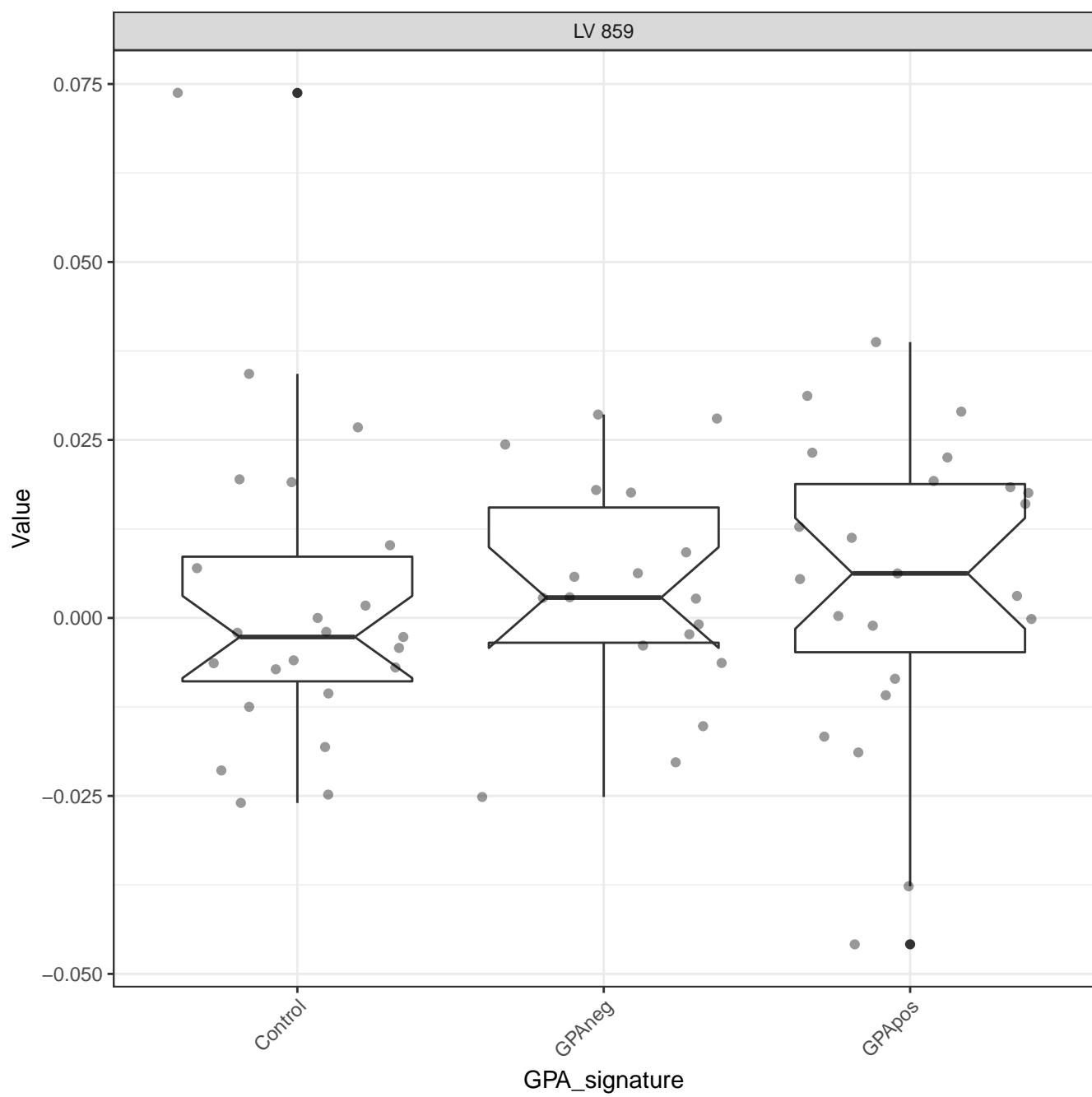
GPA\_signature



## LV 858



LV 859



## LV 860

Value

0.075

0.050

0.025

0.000

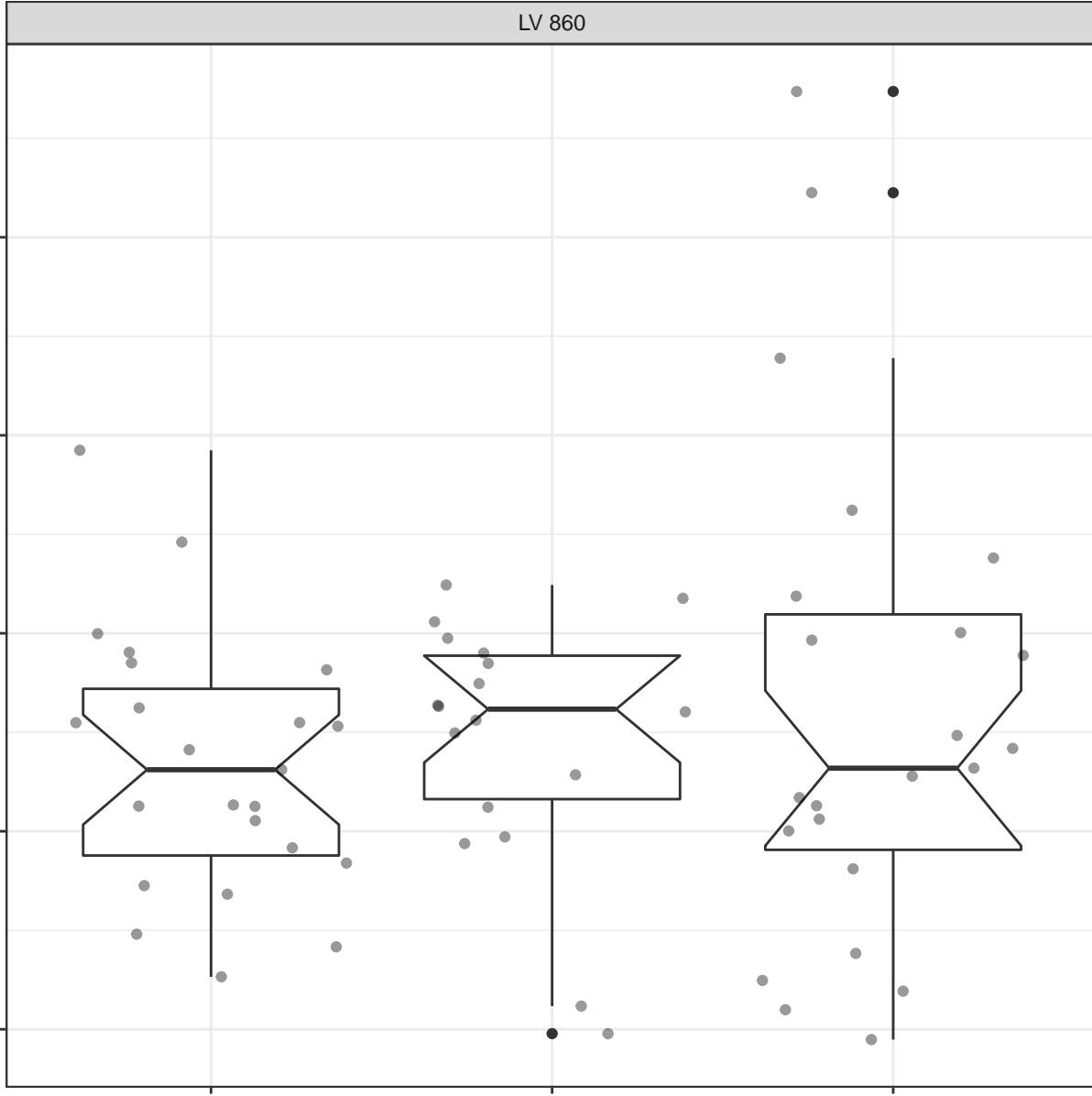
-0.025

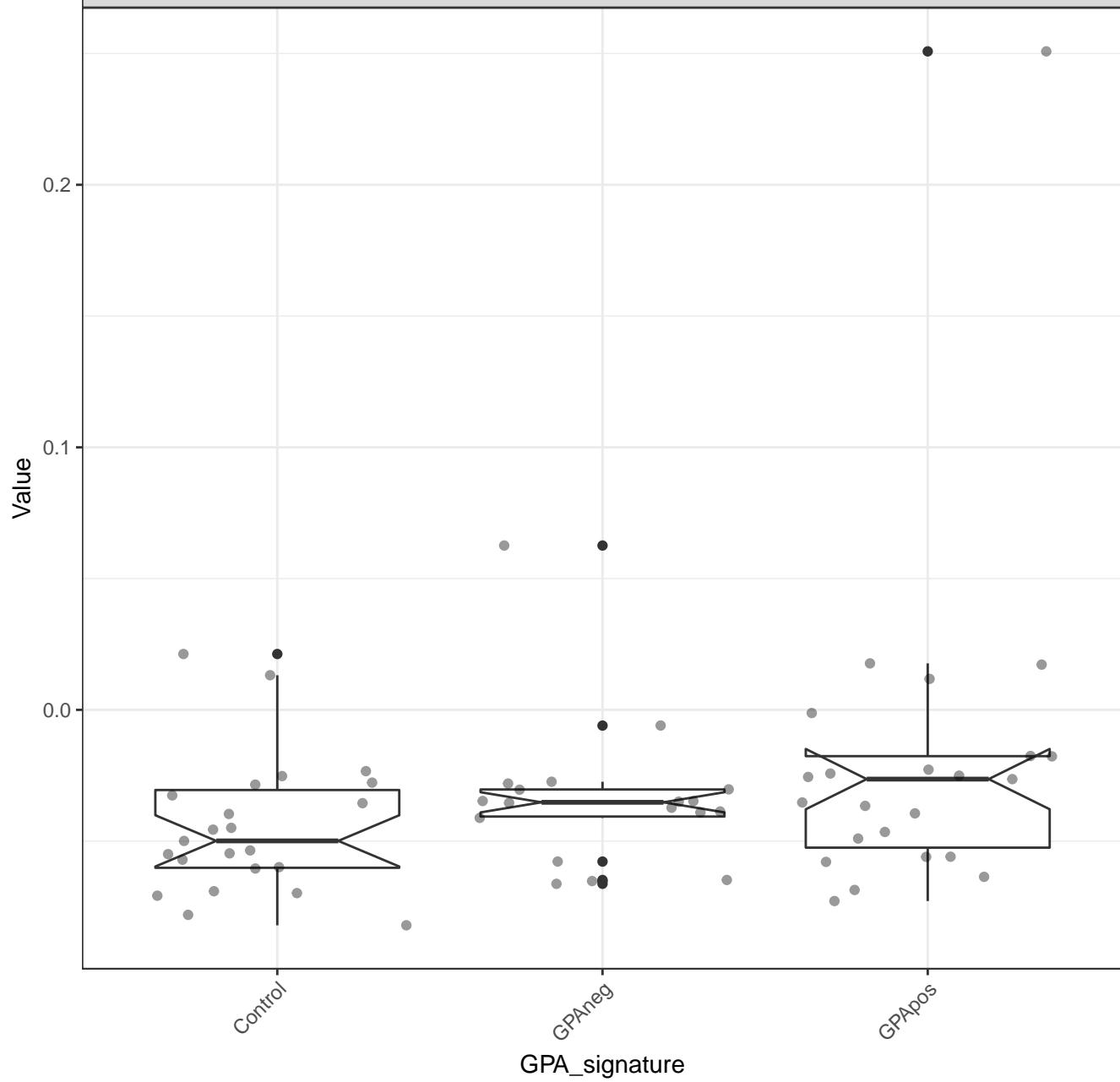
Control

GPA\_signature

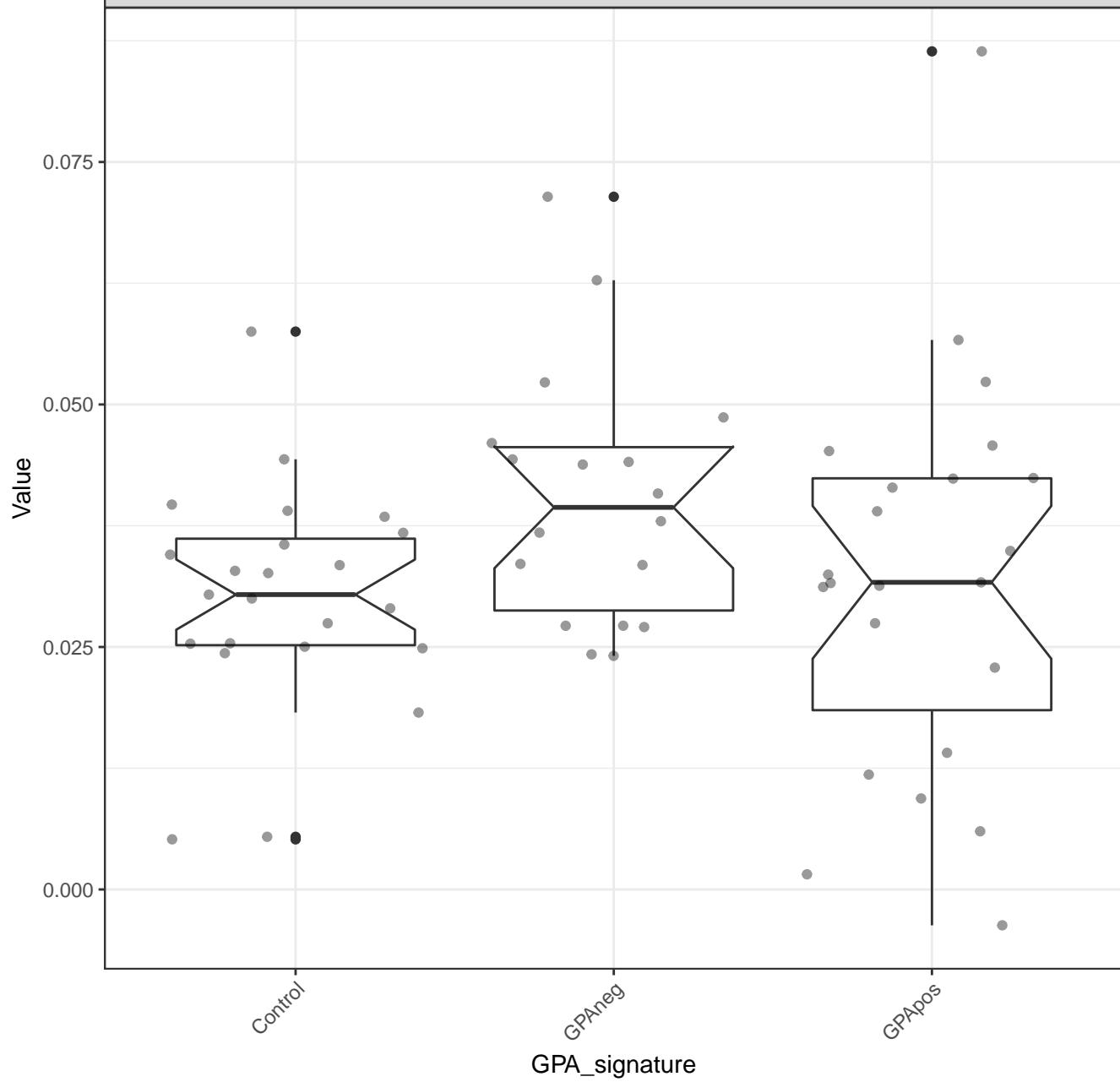
GPAneg

GPAPos

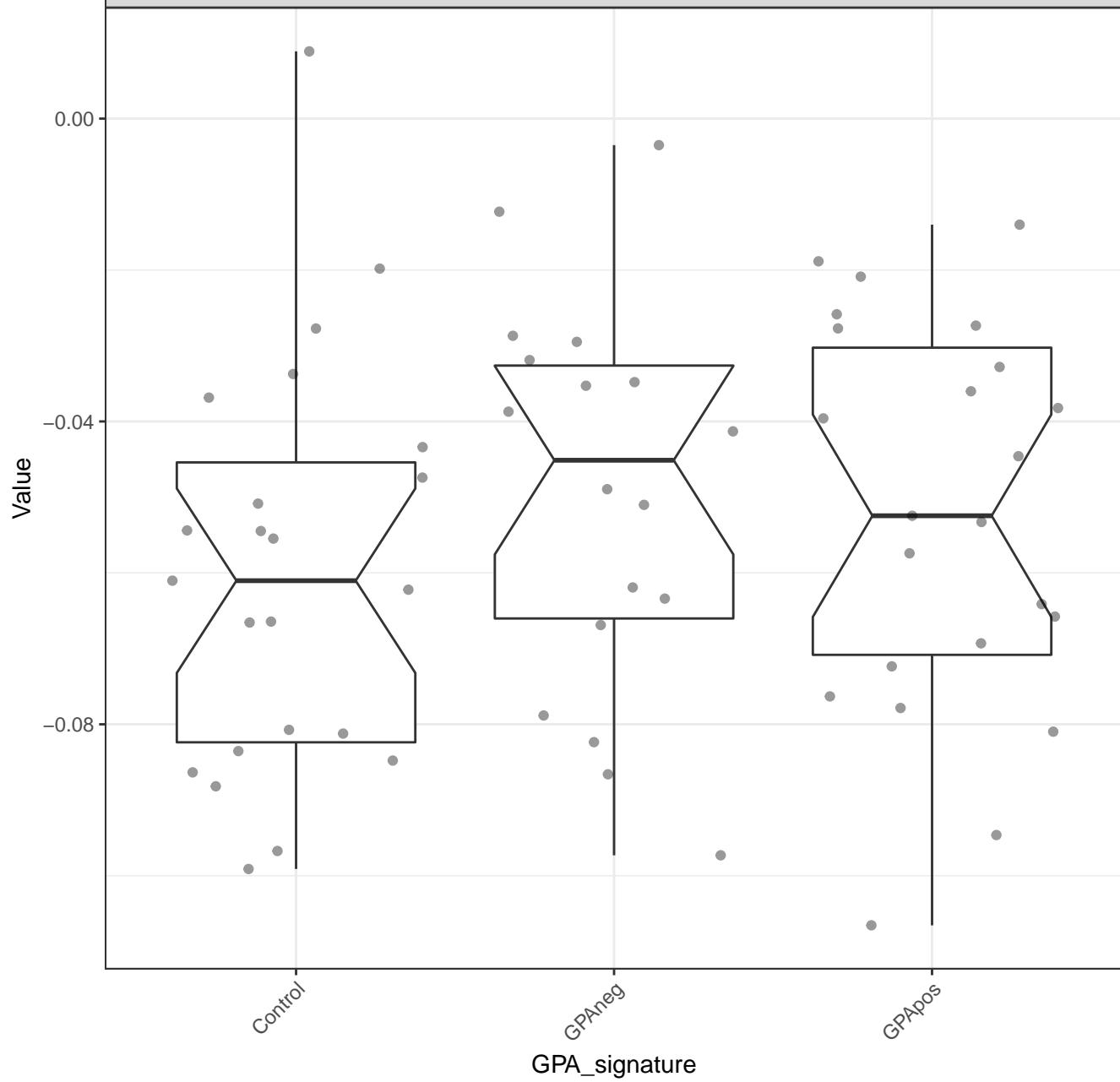




## LV 862



## LV 863



## LV 864

Value

0.050

0.025

0.000

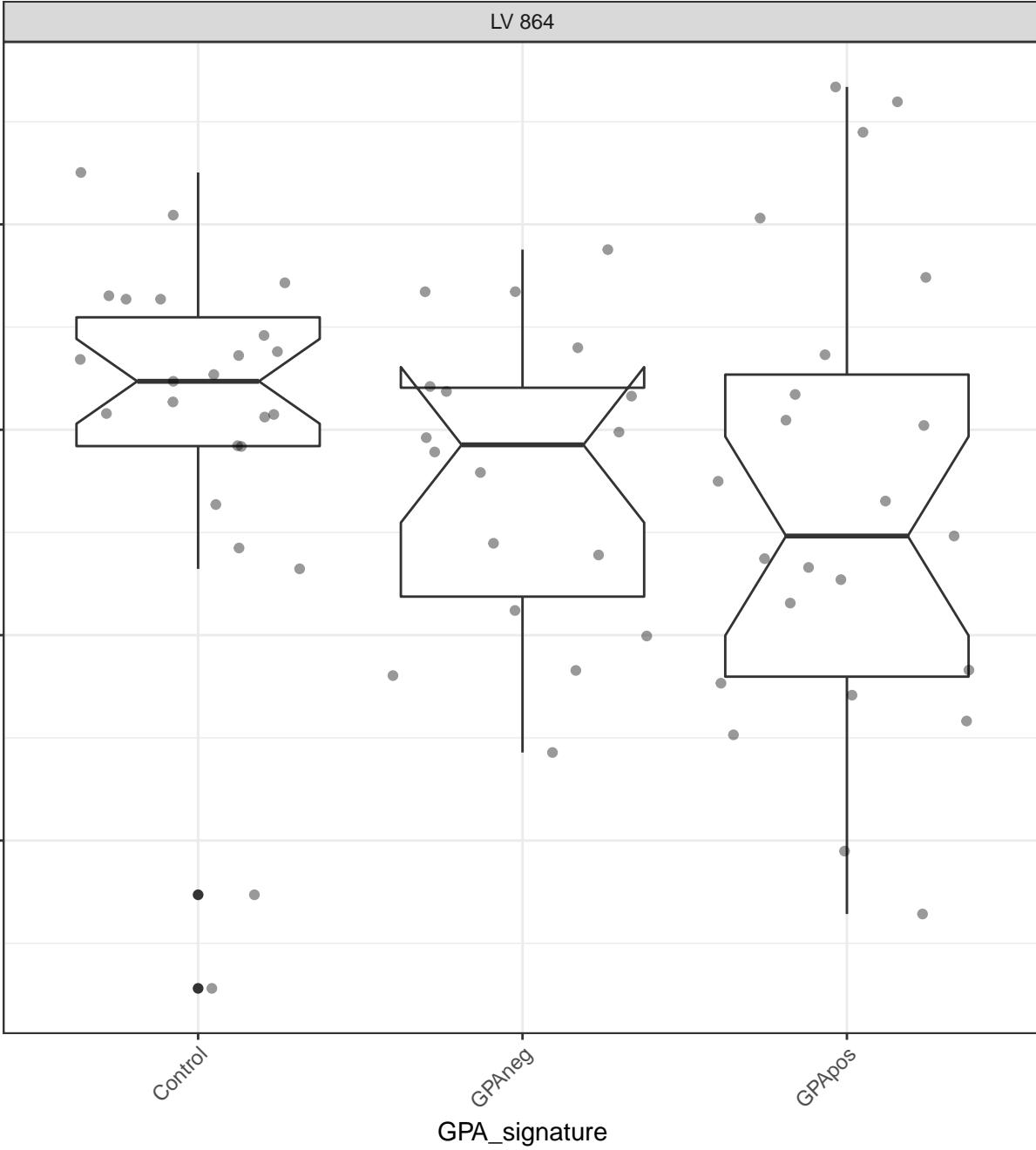
-0.025

Control

GPAneg

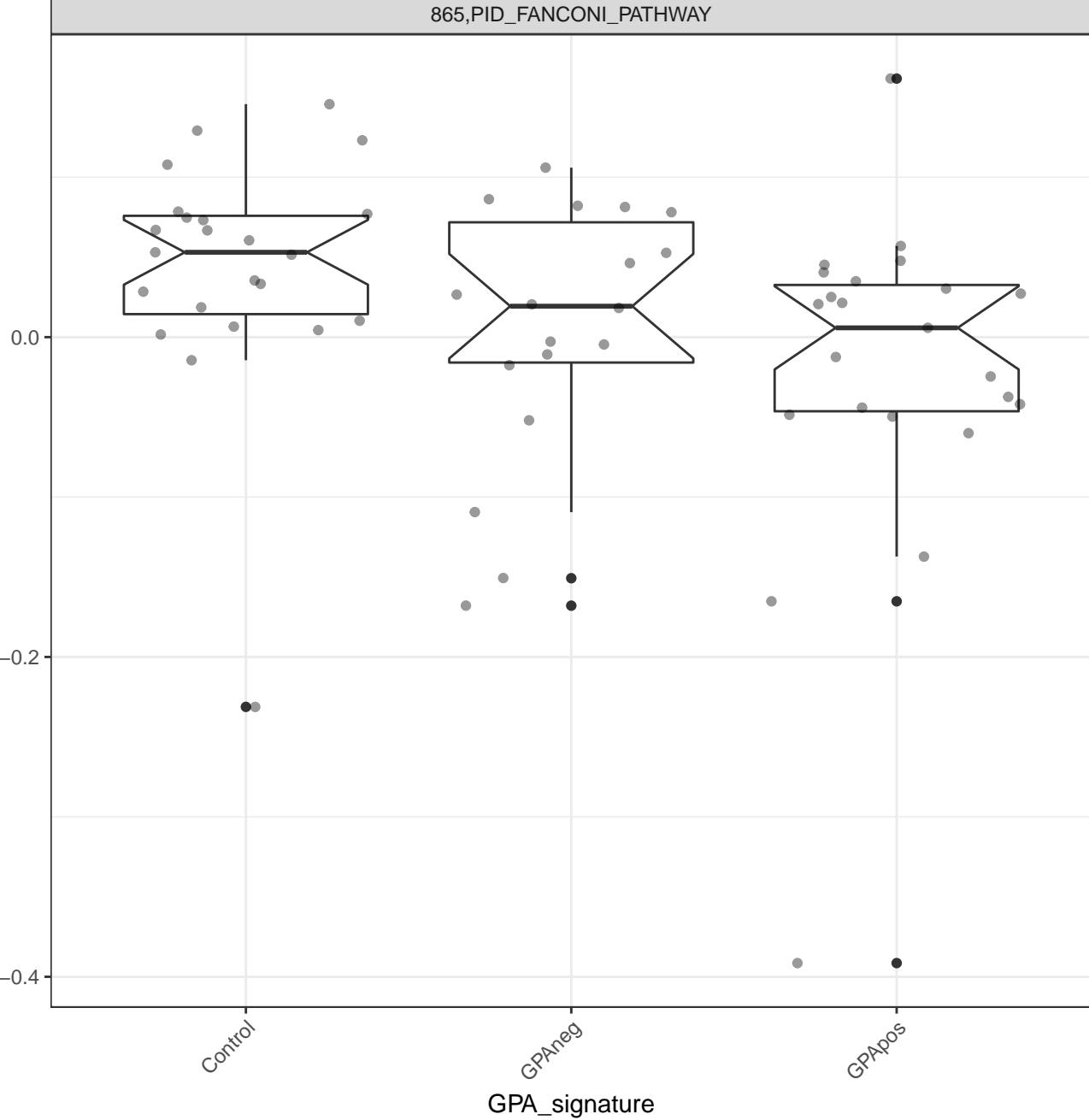
GPAPos

GPA\_signature

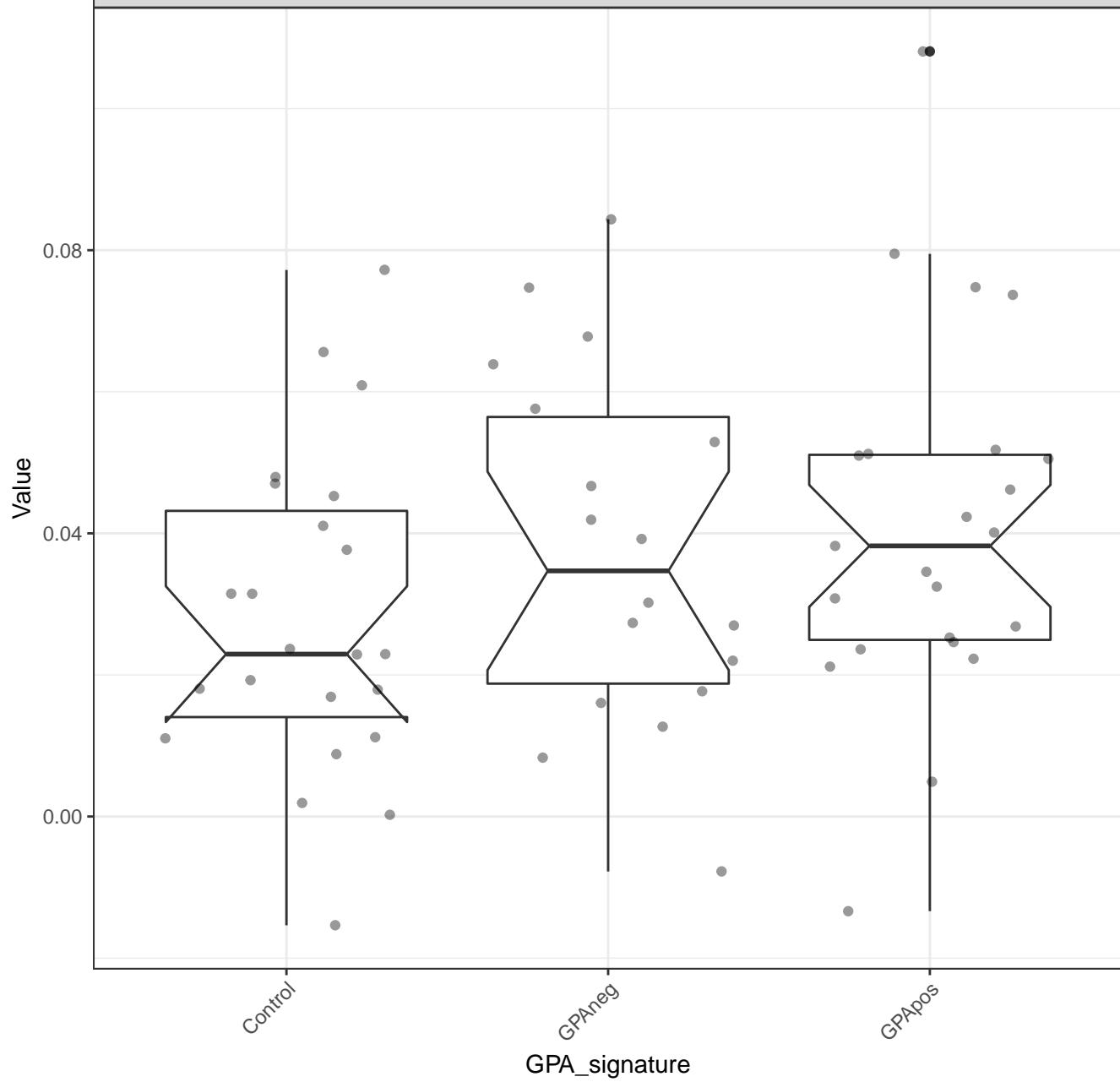


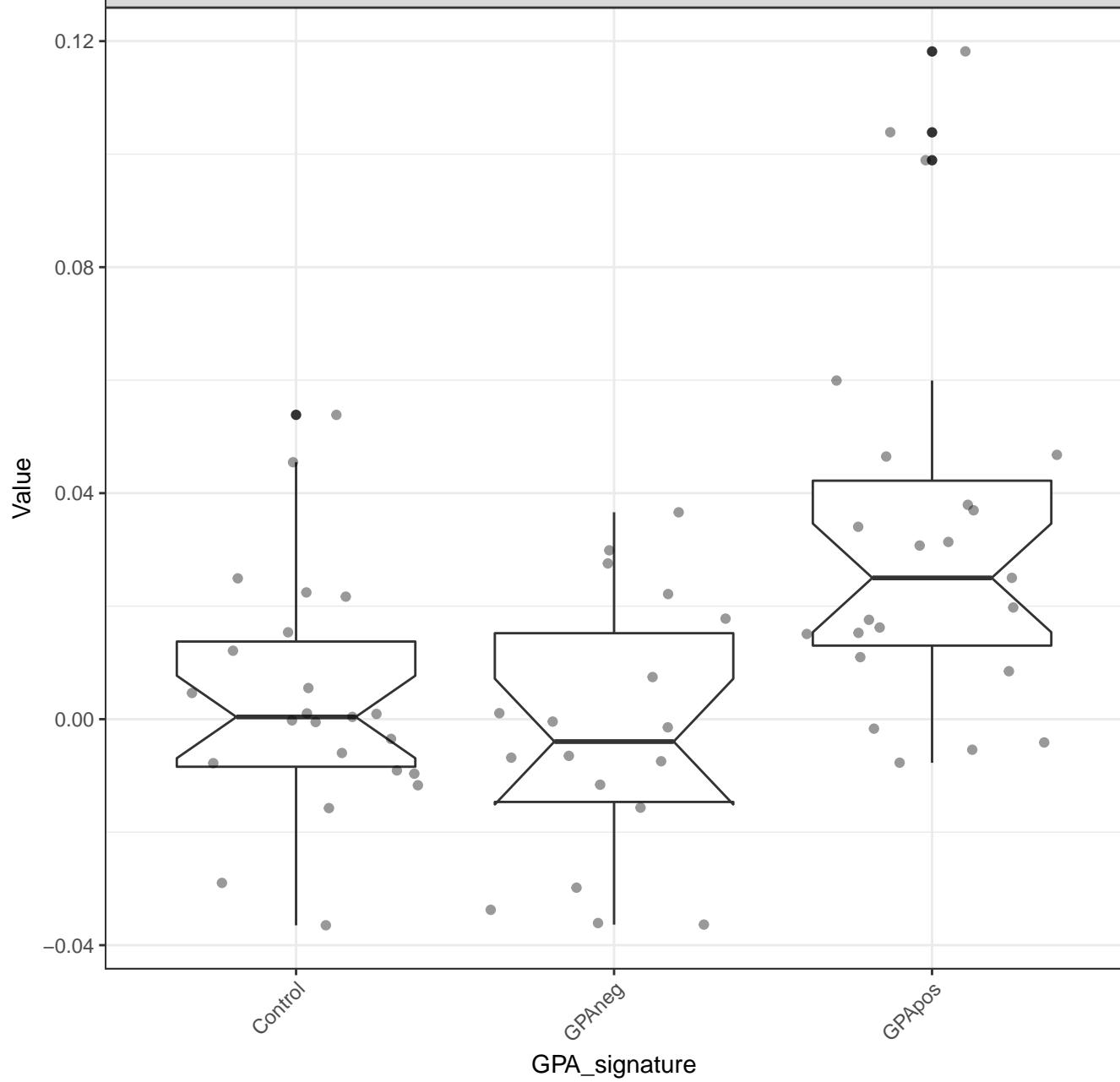
## 865,PID\_FANCONI\_PATHWAY

Value



LV 866





## LV 868

Value

0.050

0.025

0.000

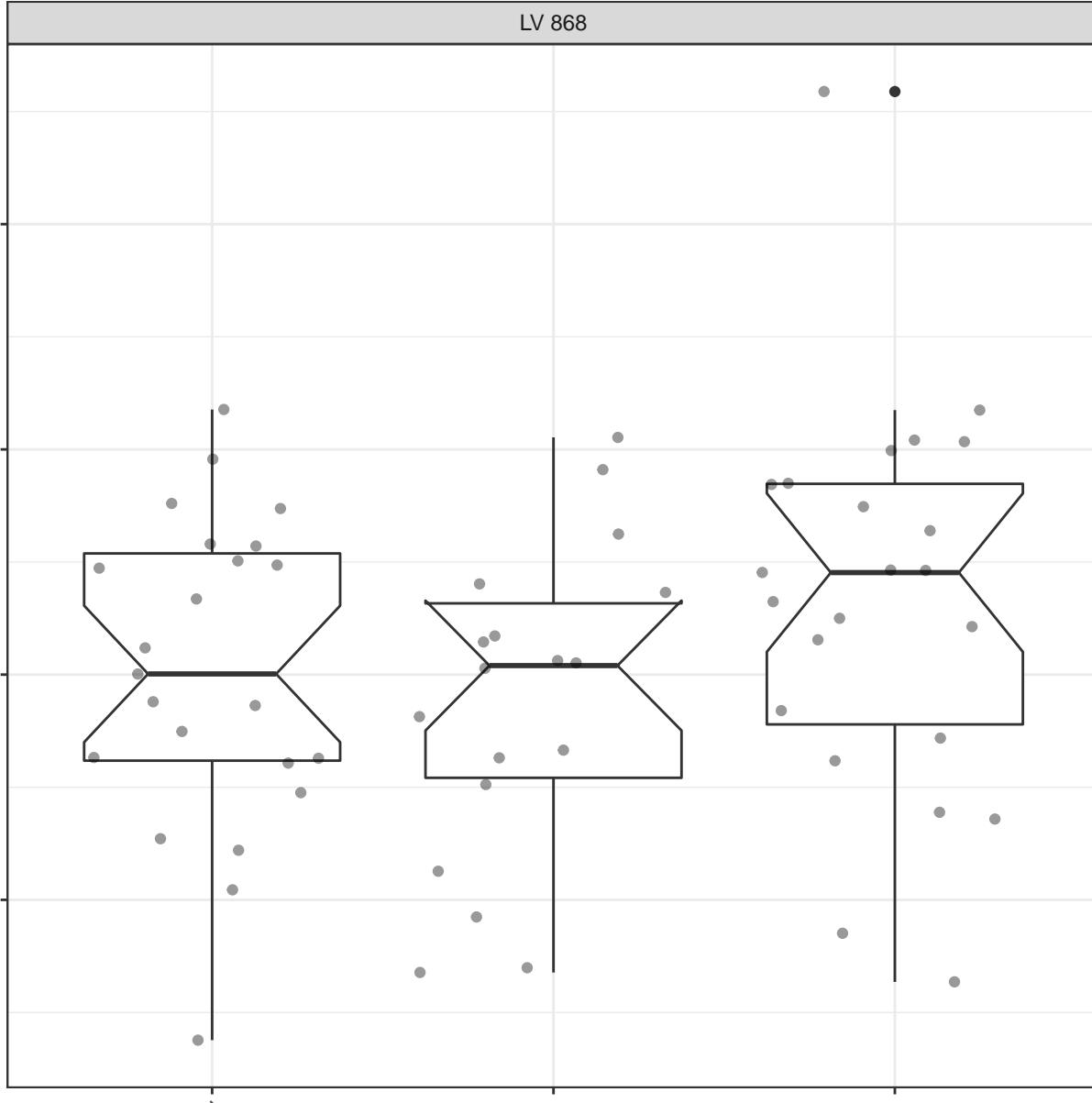
-0.025

Control

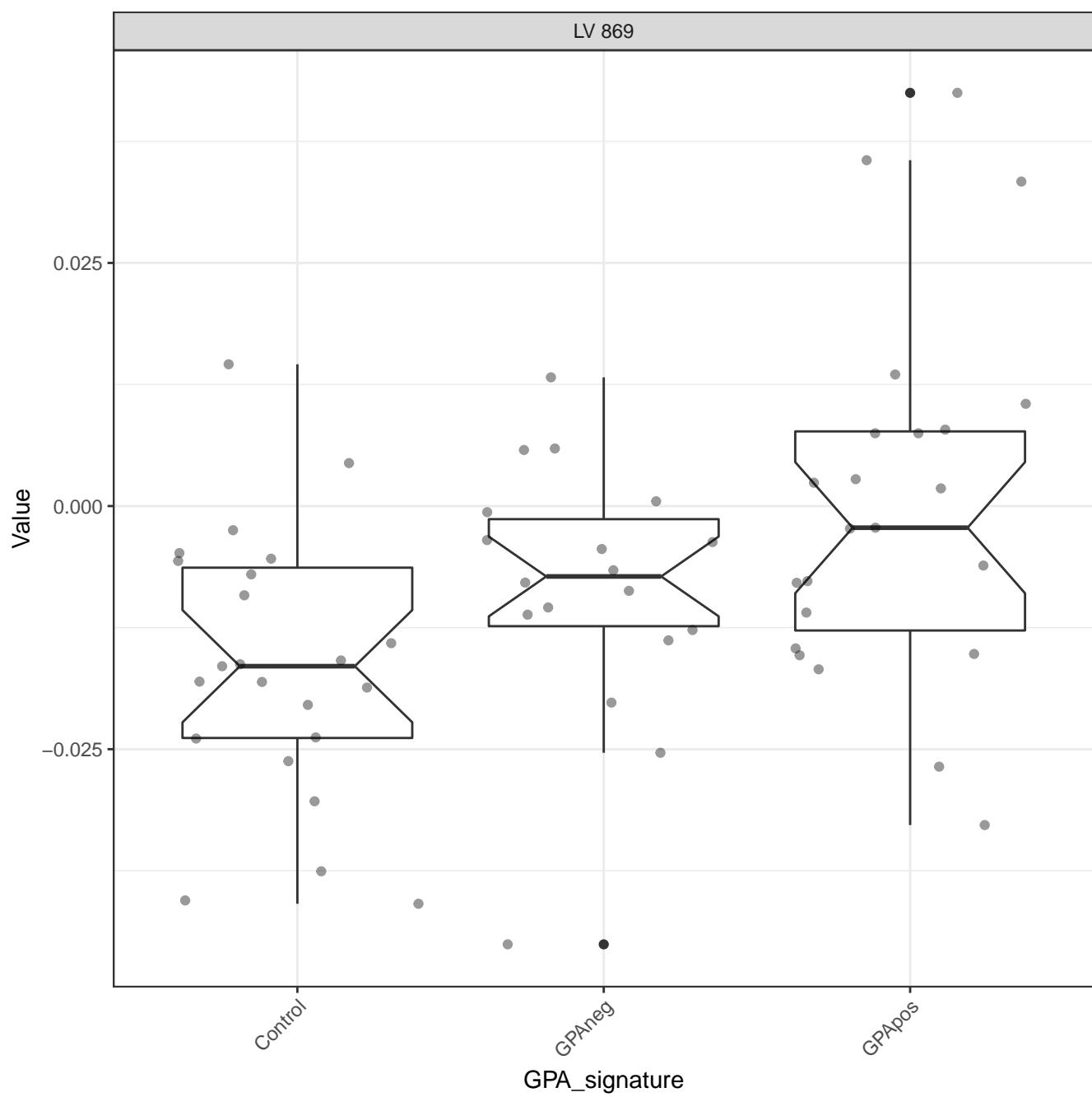
GPA\_signature

GPAneg

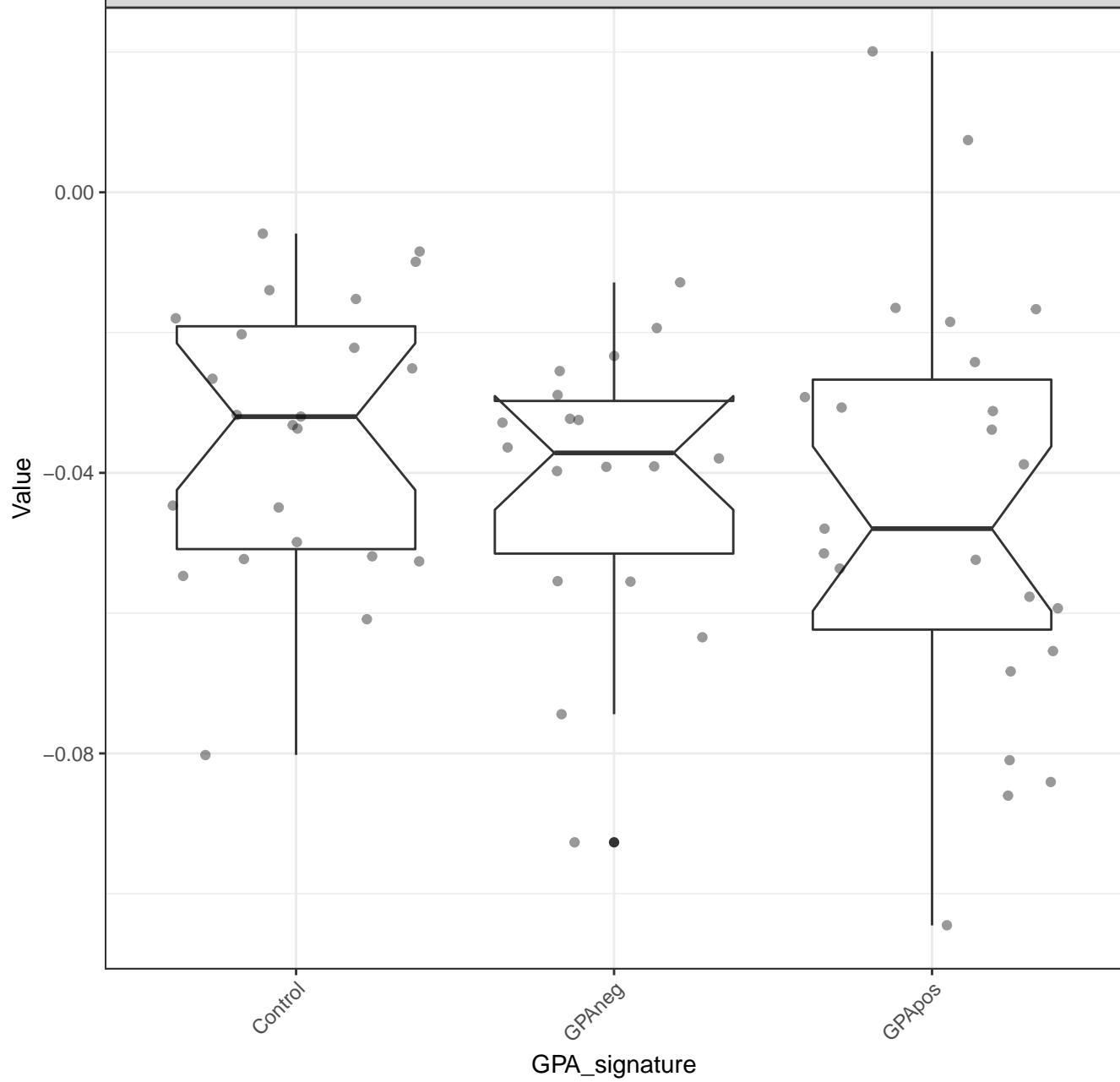
GPAPos



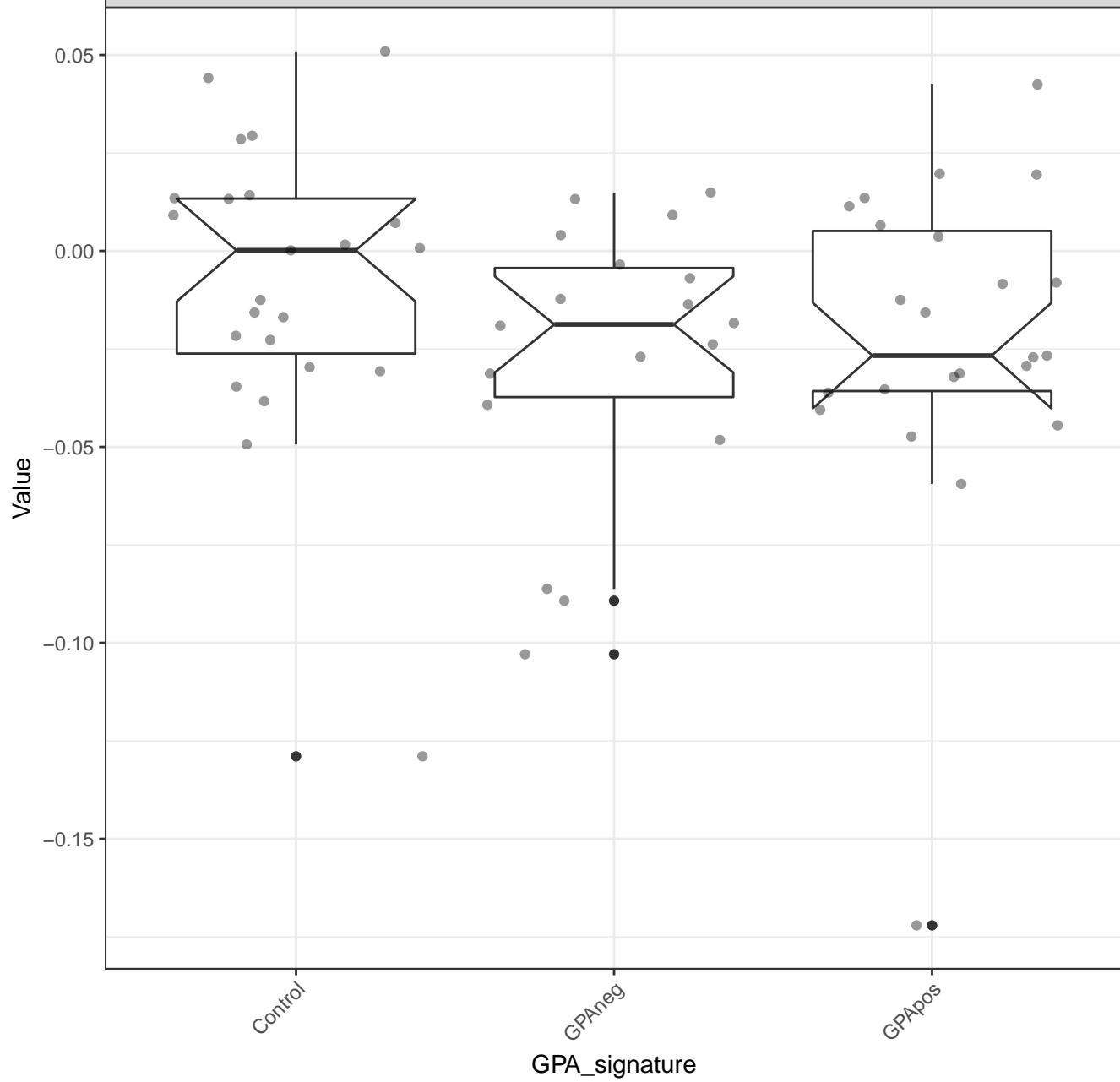
## LV 869



LV 870



LV 871



## LV 872

Value

0.04

0.02

0.00

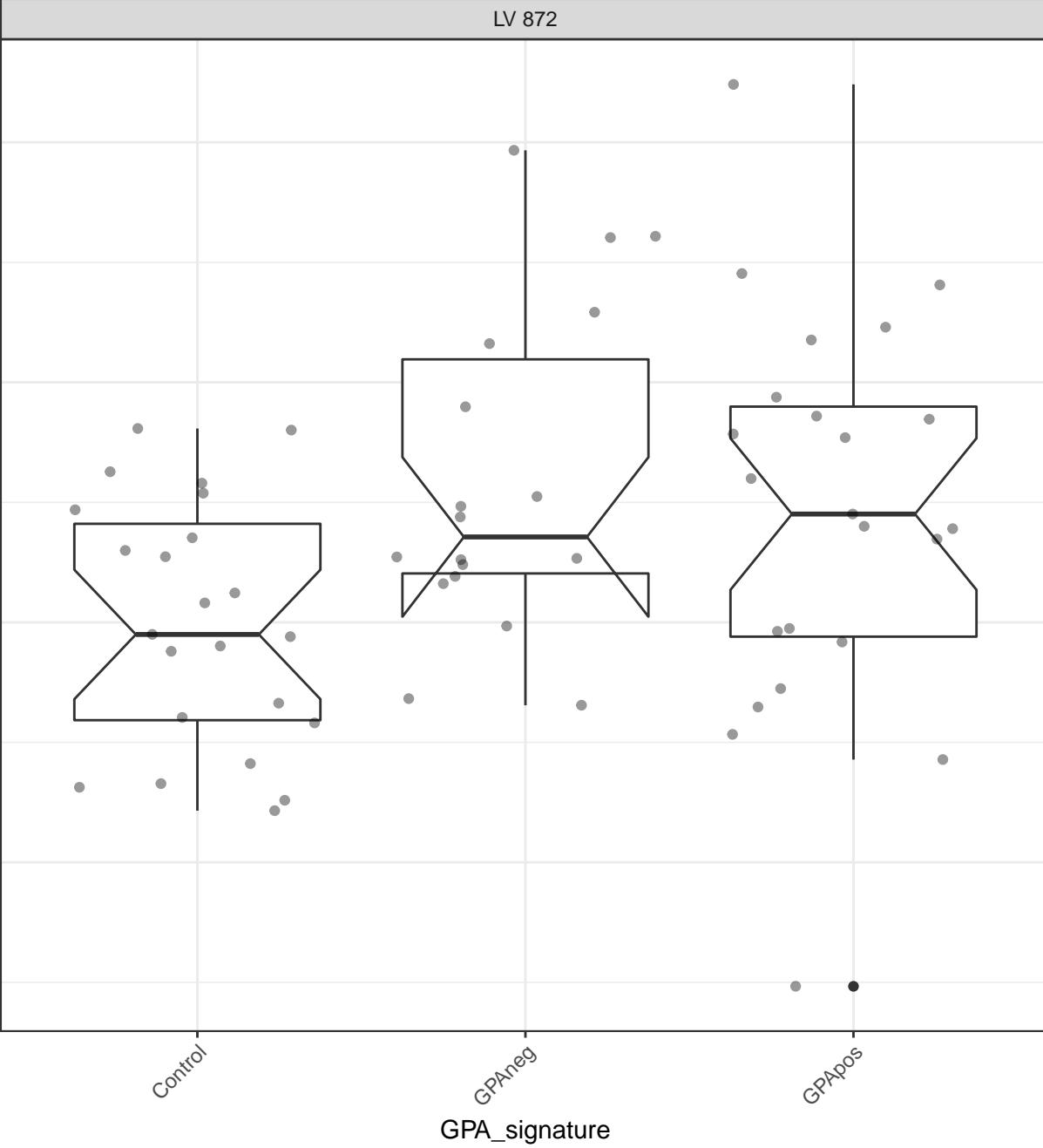
-0.02

Control

GPA\_signature

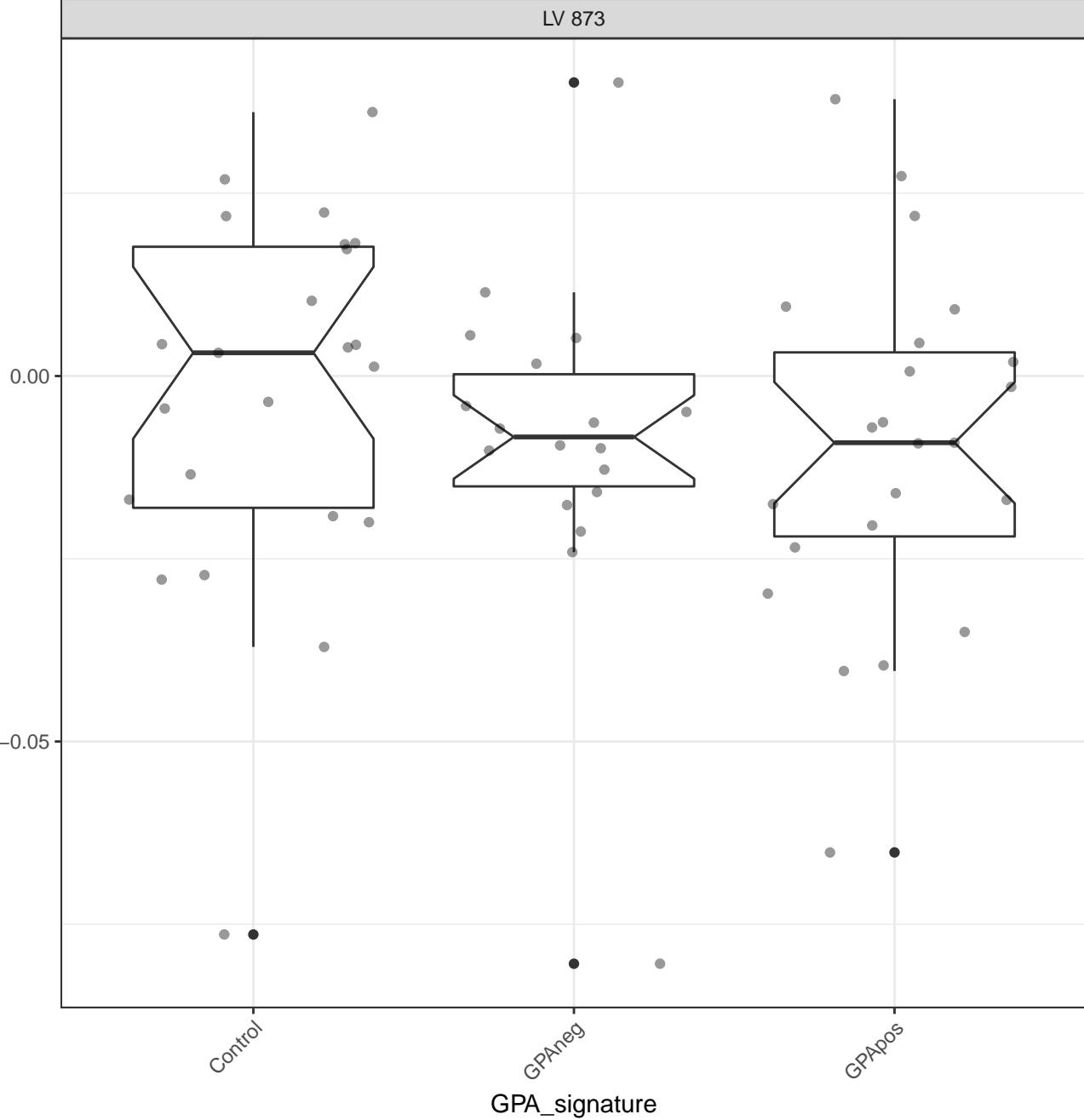
GPAneg

GPApos

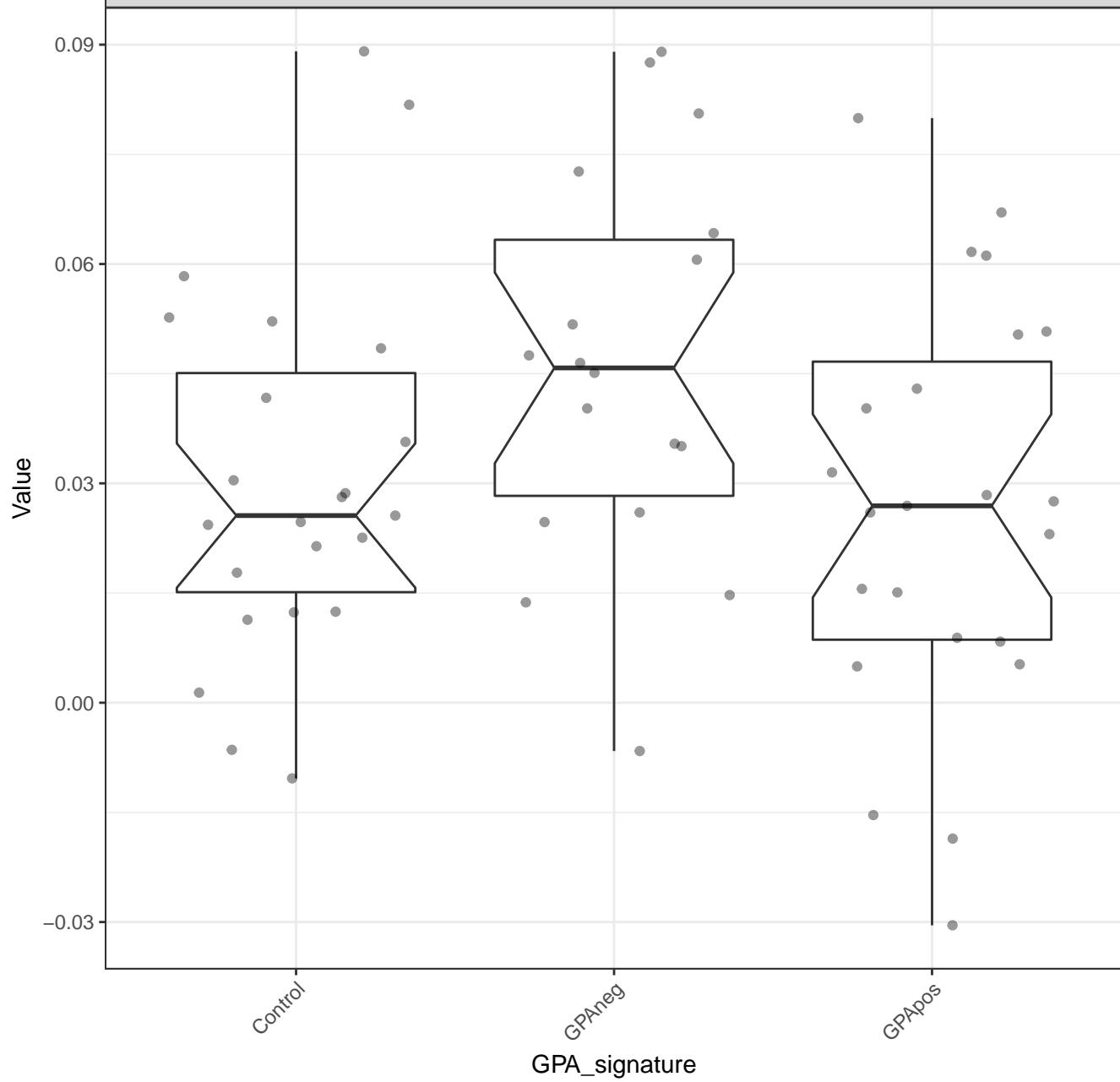


LV 873

Value



LV 874



LV 875

Value

0.06

0.03

0.00

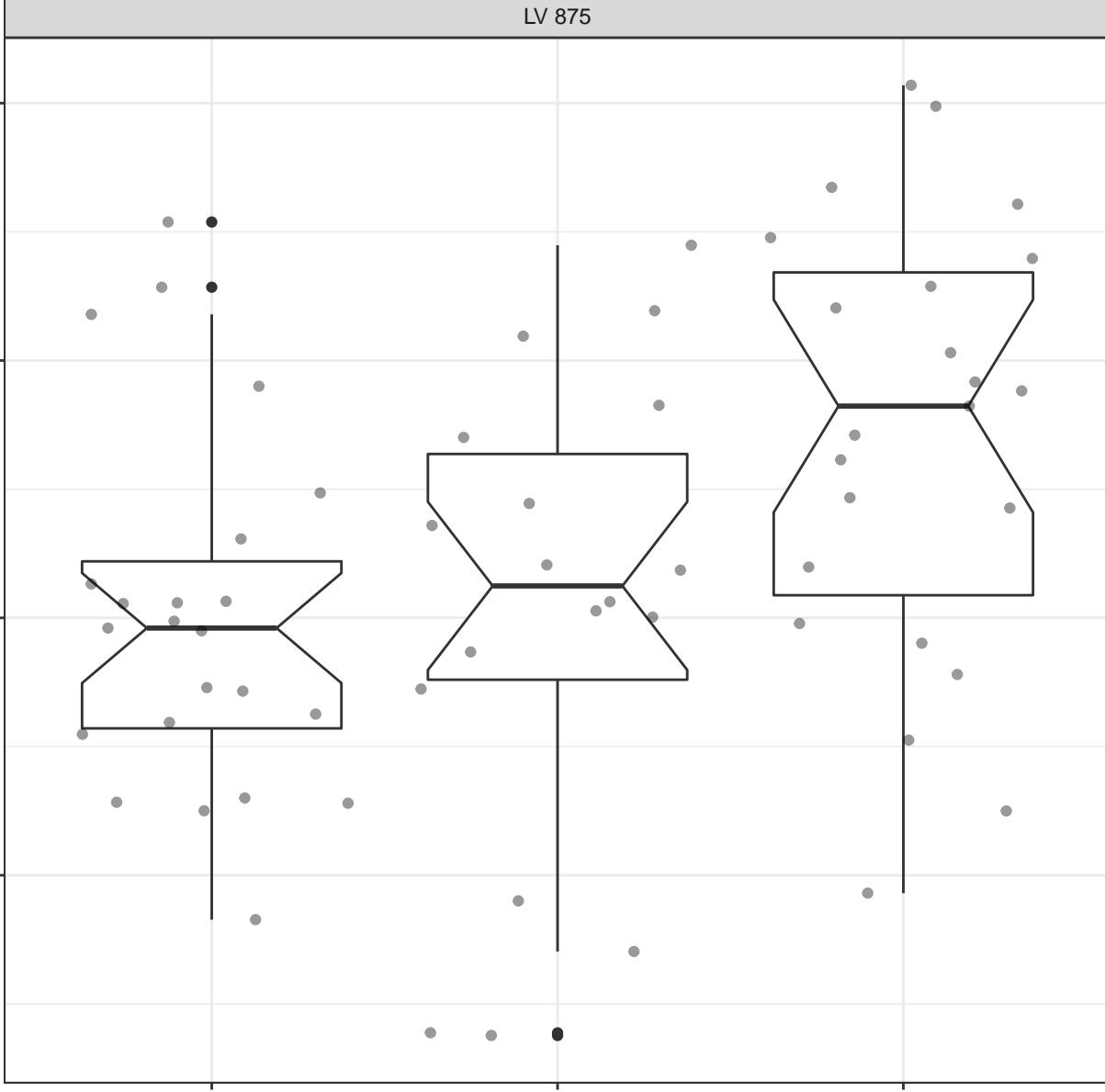
-0.03

Control

GPAneg

GPAPos

GPA\_signature



## LV 876

Value

0.05

0.00

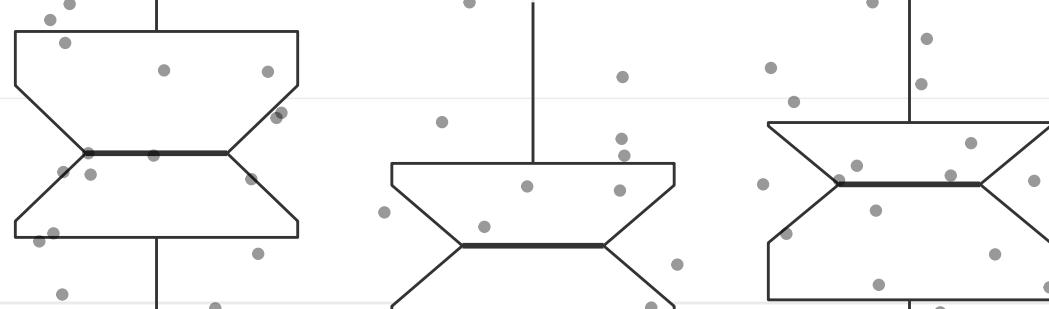
-0.05

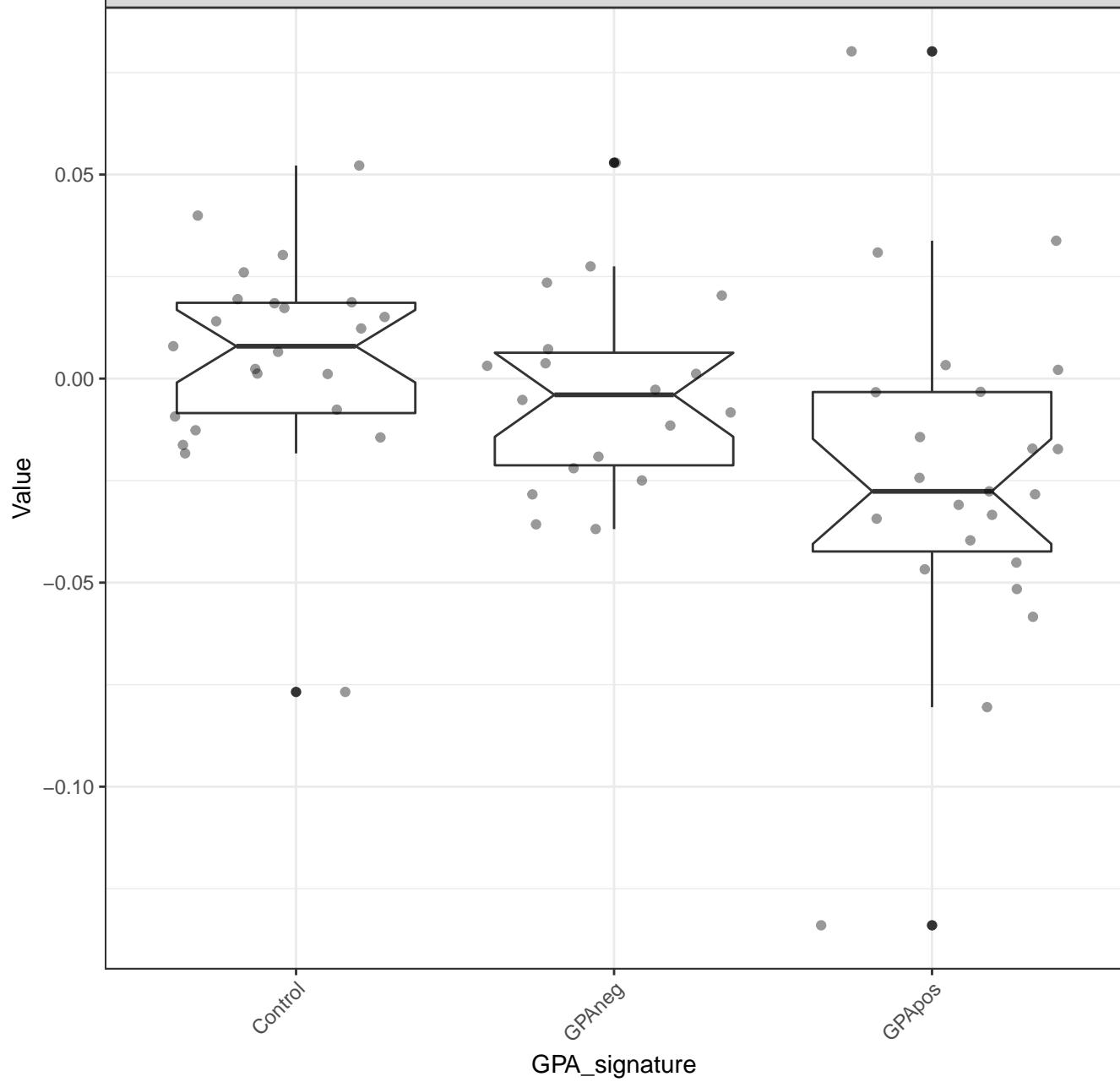
Control

GPAneg

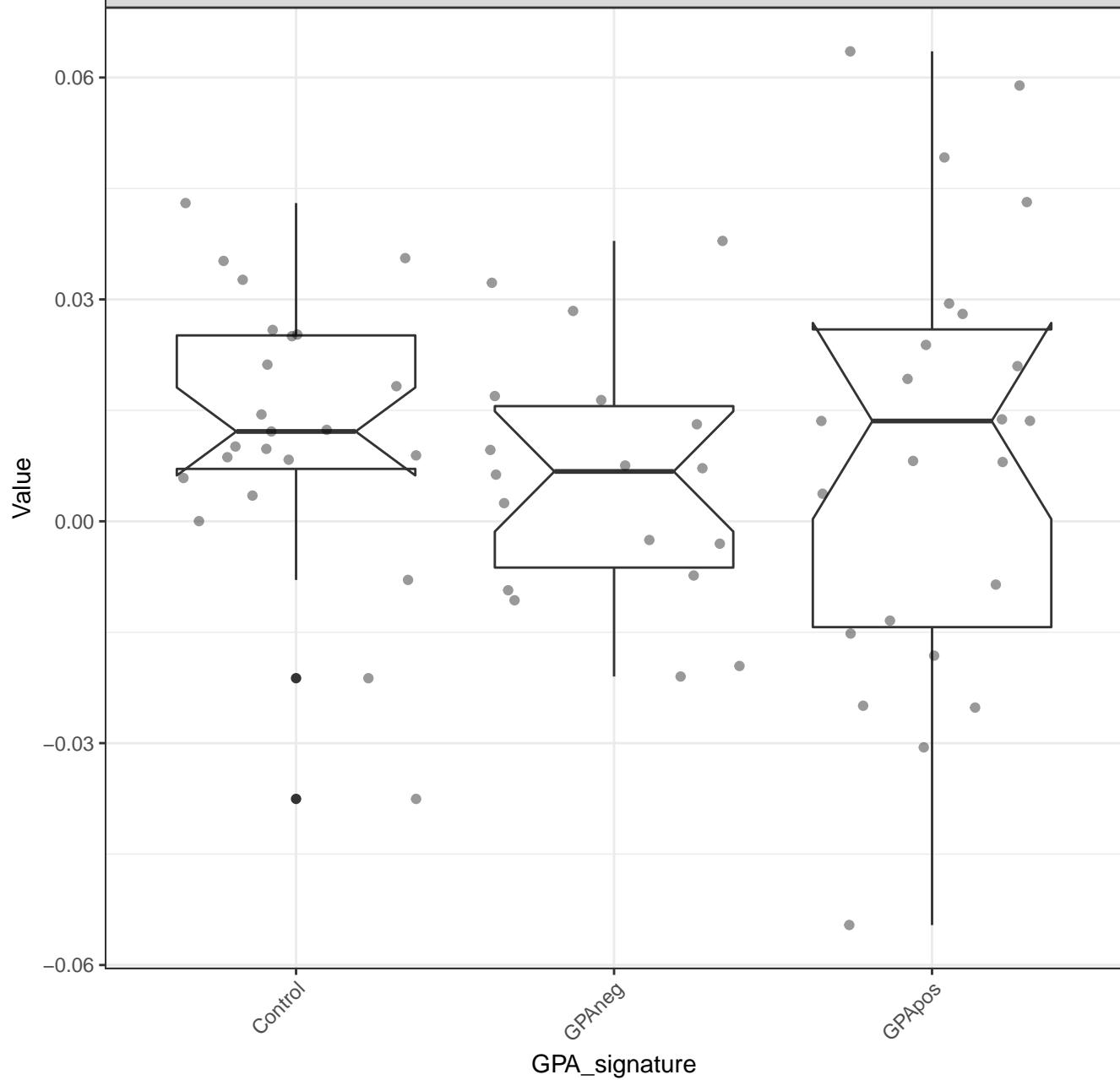
GPAPos

GPA\_signature





## LV 878



## 879,REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM

Value

0.05

0.00

-0.05

-0.10

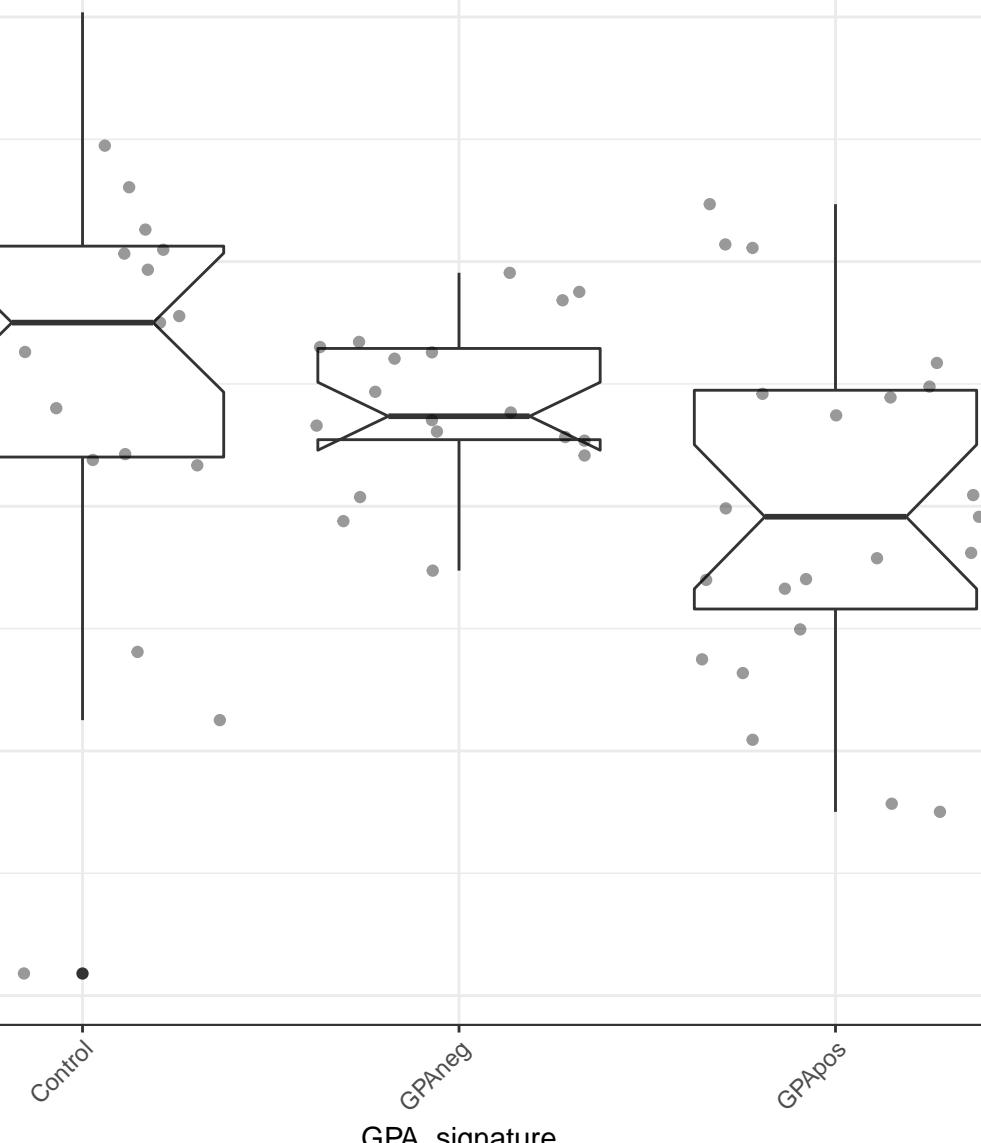
-0.15

Control

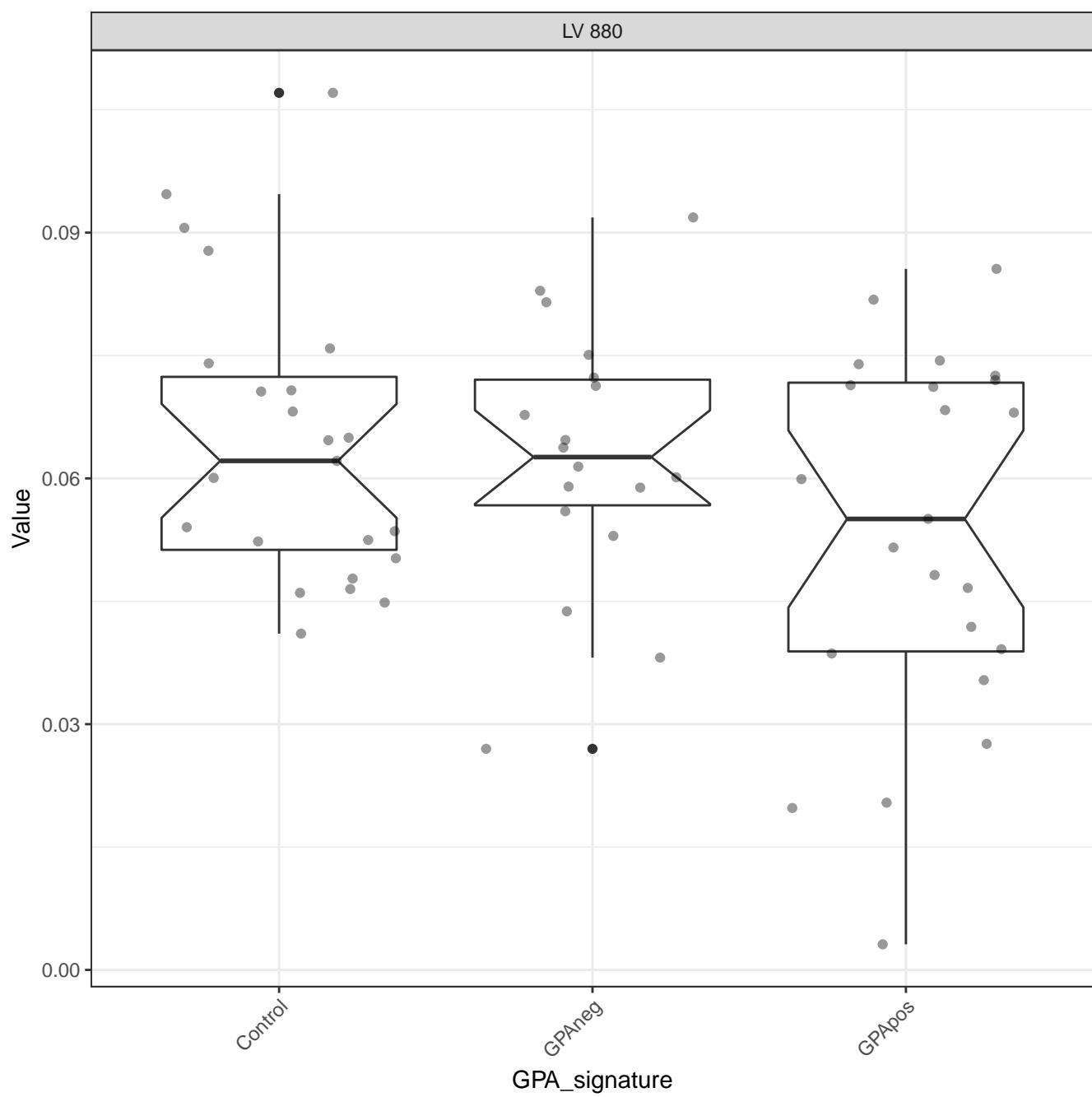
GPA\_signature

GPAneg

GPAPos



LV 880



## 881,REACTOME\_DNA\_STRAND\_ELONGATION

Value

0.3

0.2

0.1

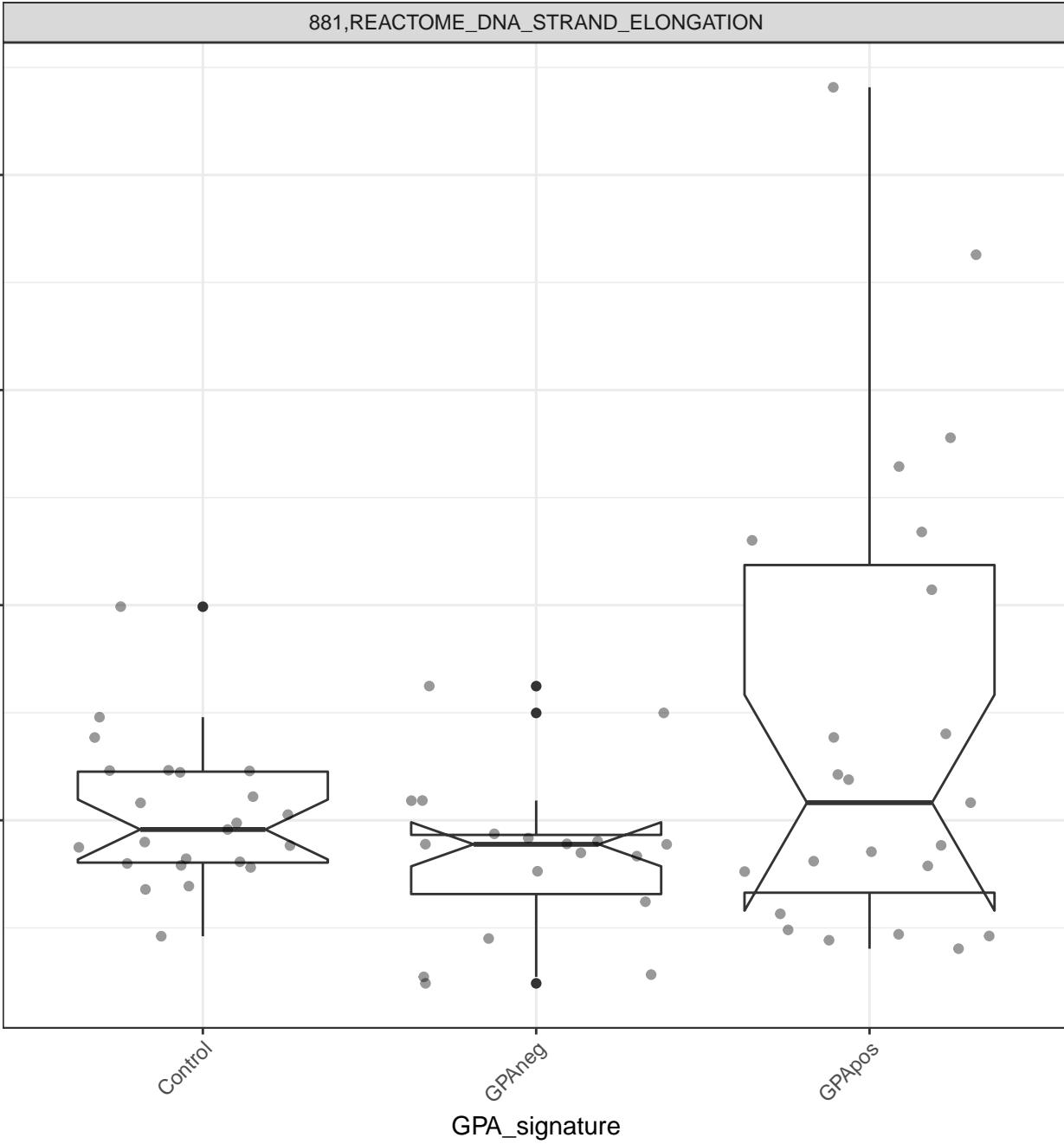
0.0

Control

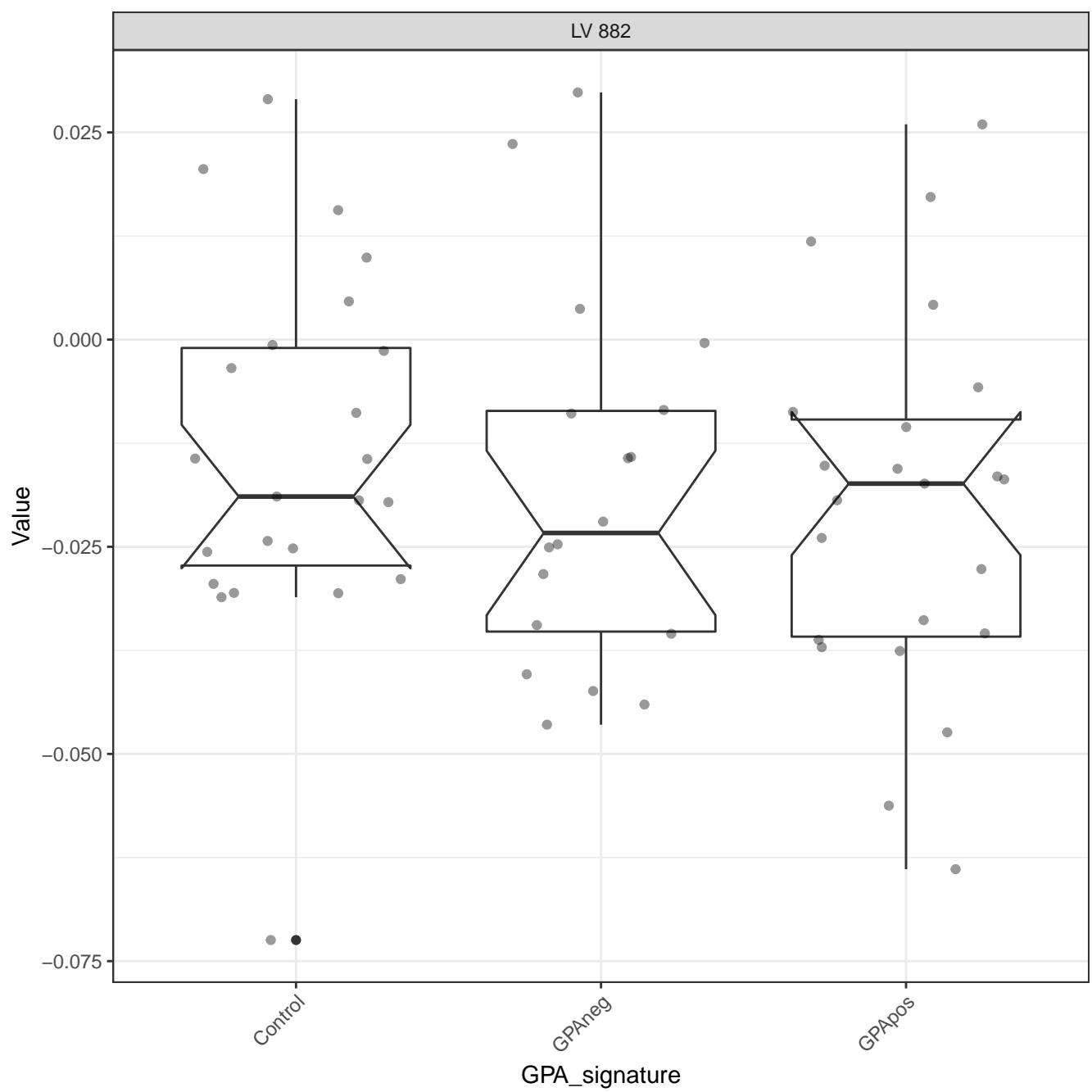
GPA\_signature

GPAneg

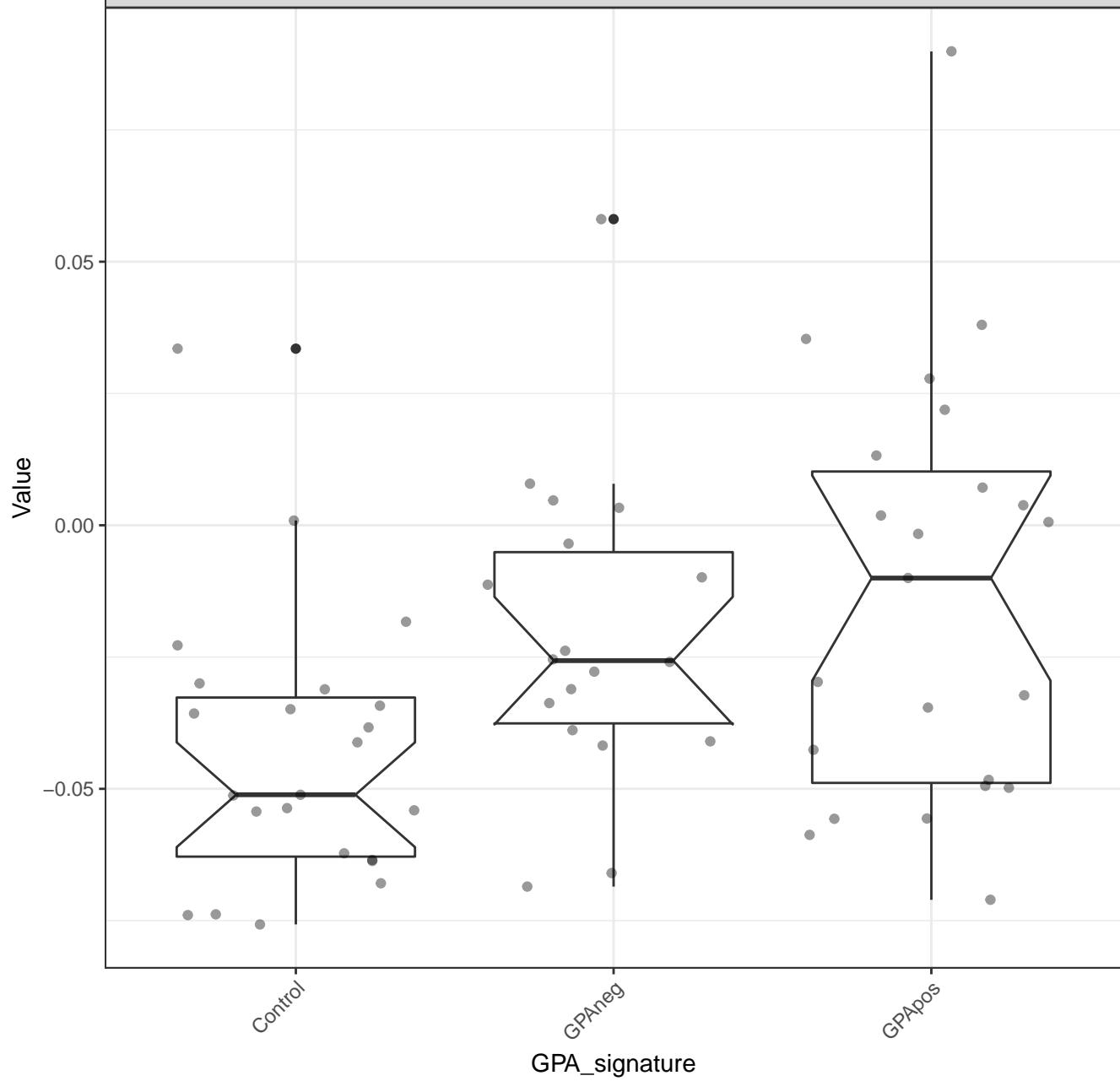
GPApos



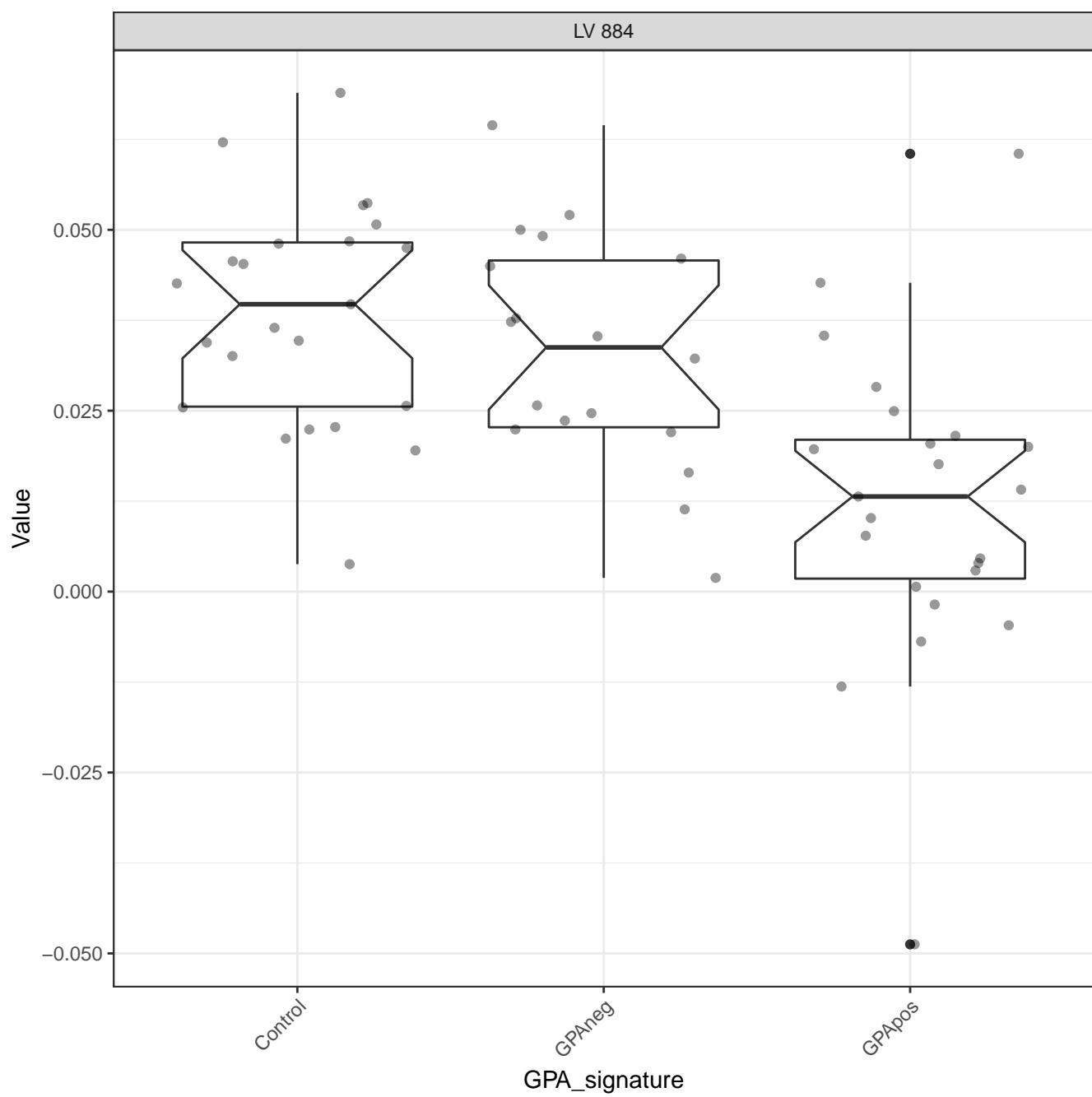
## LV 882



LV 883

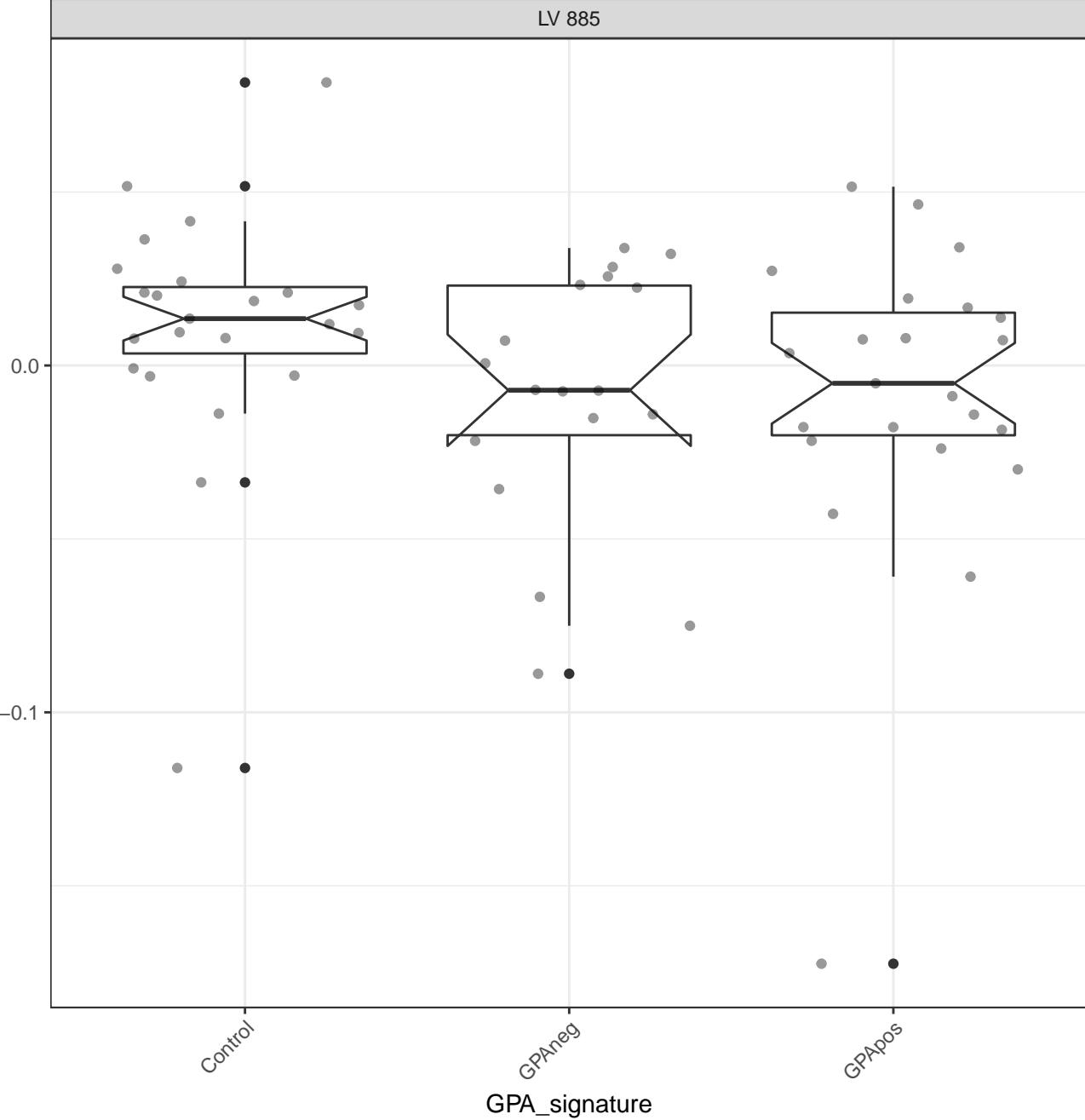


## LV 884

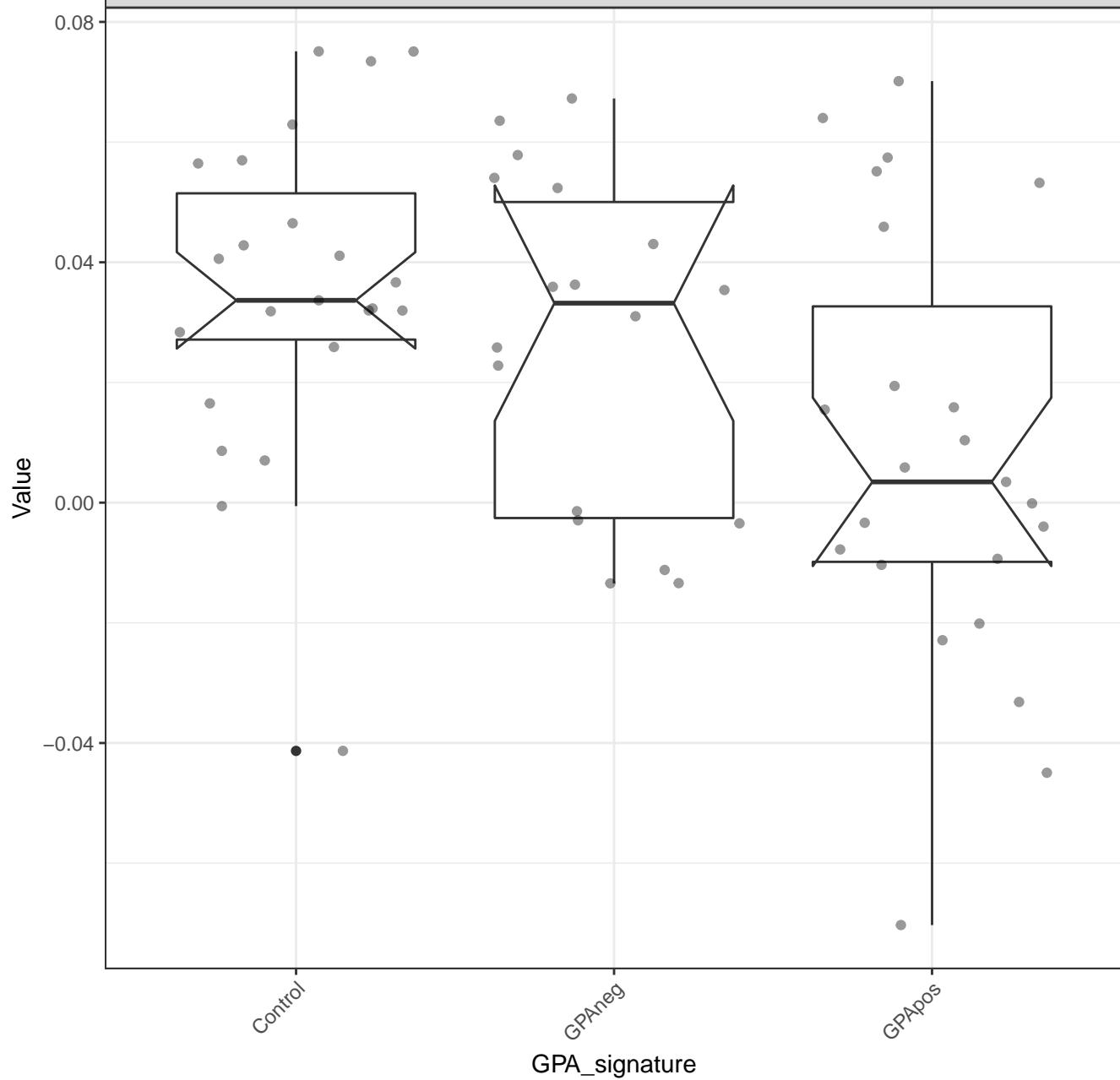


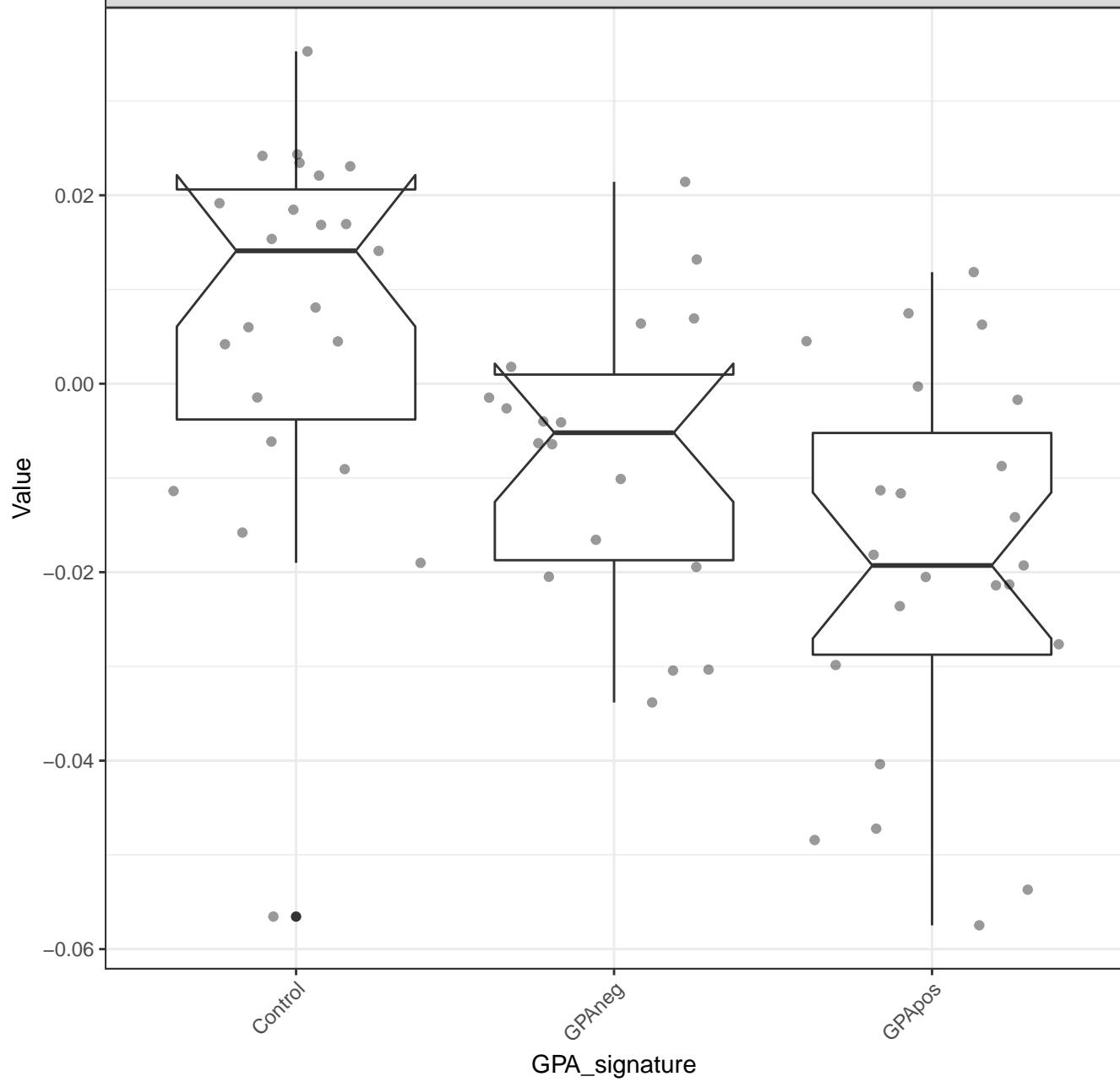
## LV 885

Value



LV 886





## LV 888

Value

0.02

0.00

-0.02

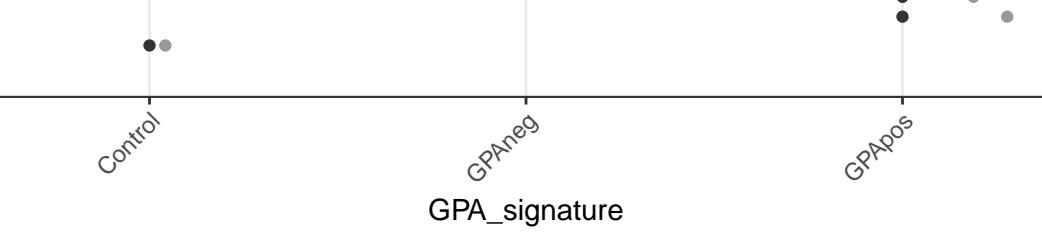
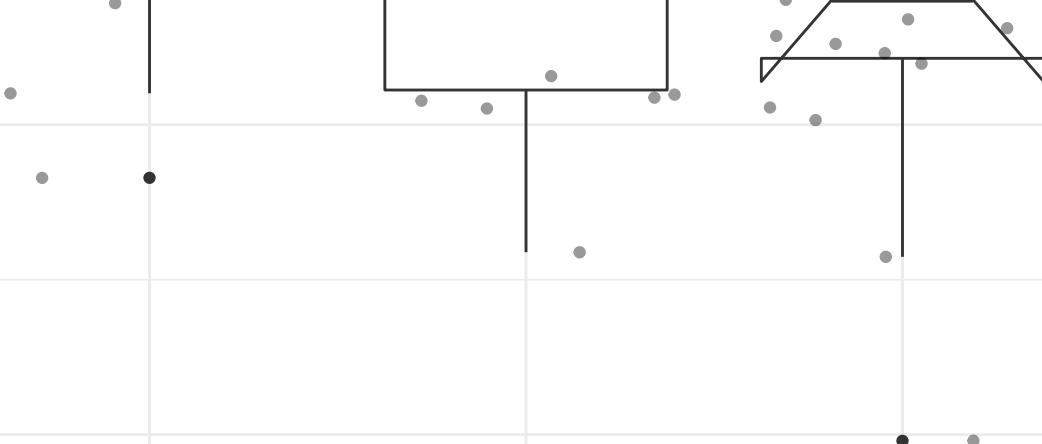
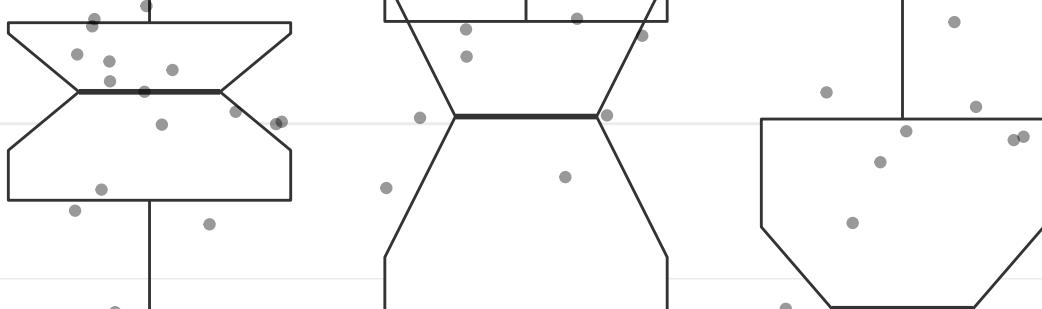
-0.04

Control

GPAneg

GPApos

GPA\_signature



LV 889

Value

0.05

0.00

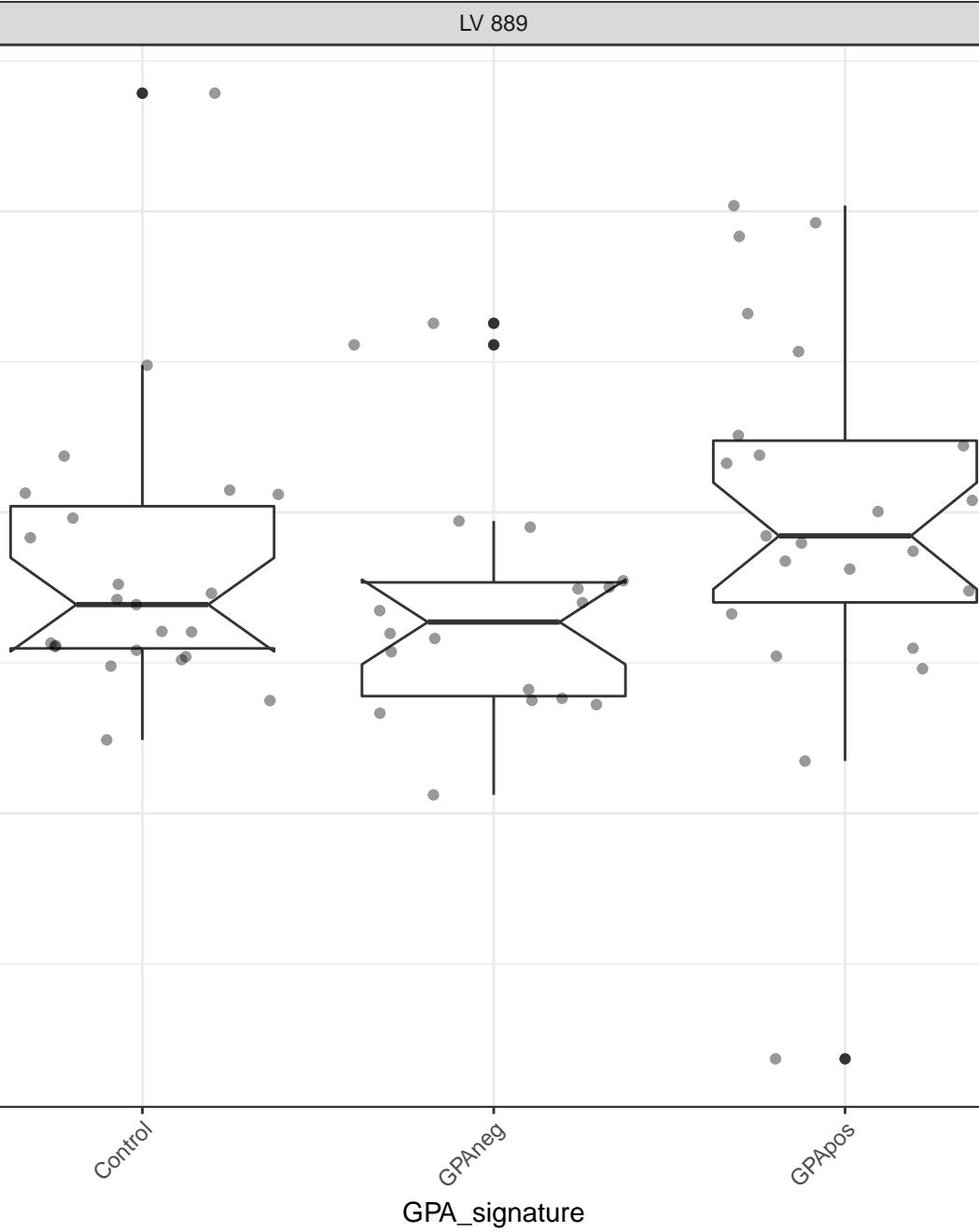
-0.05

Control

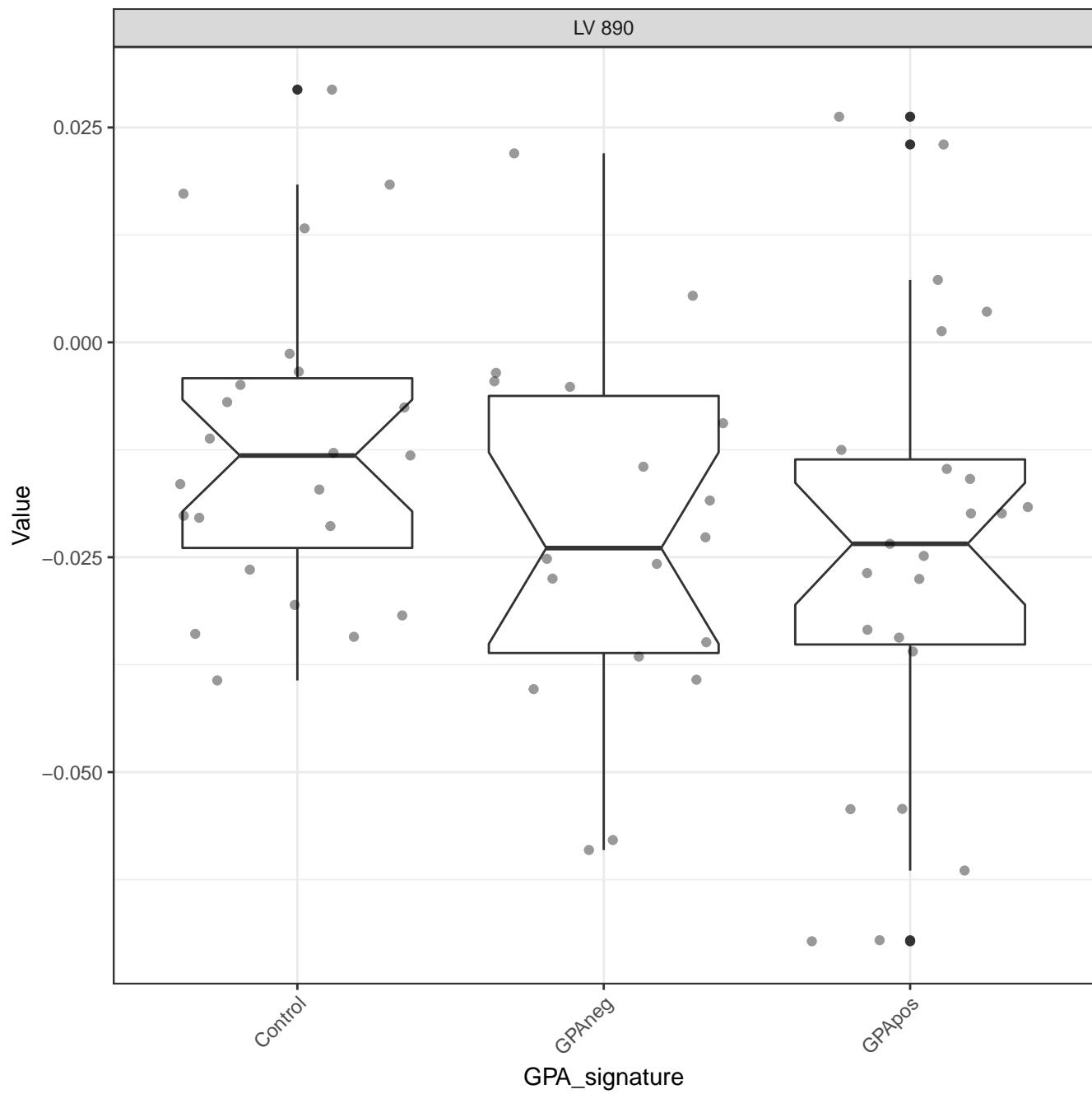
GPAneg

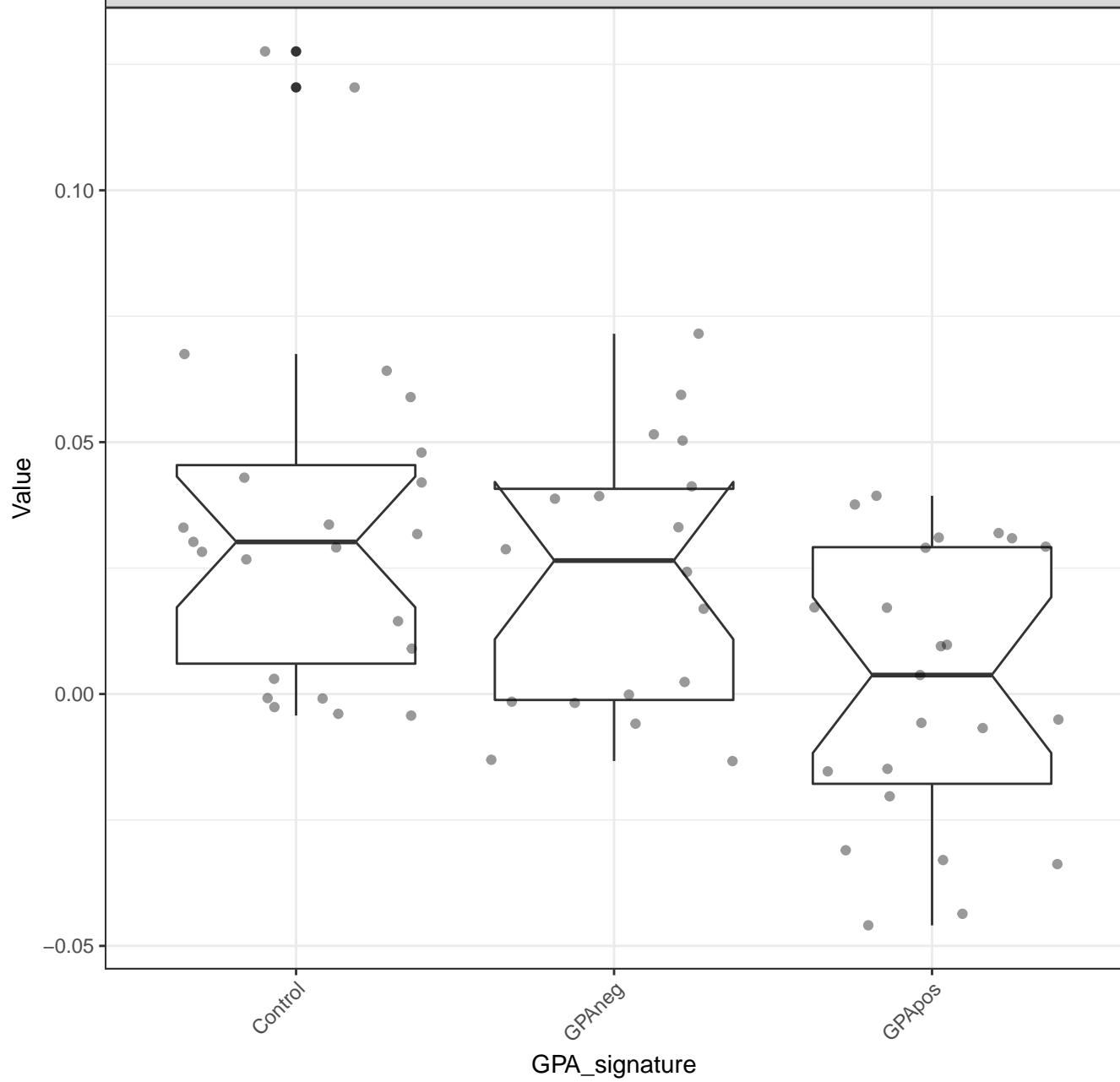
GPAPos

GPA\_signature

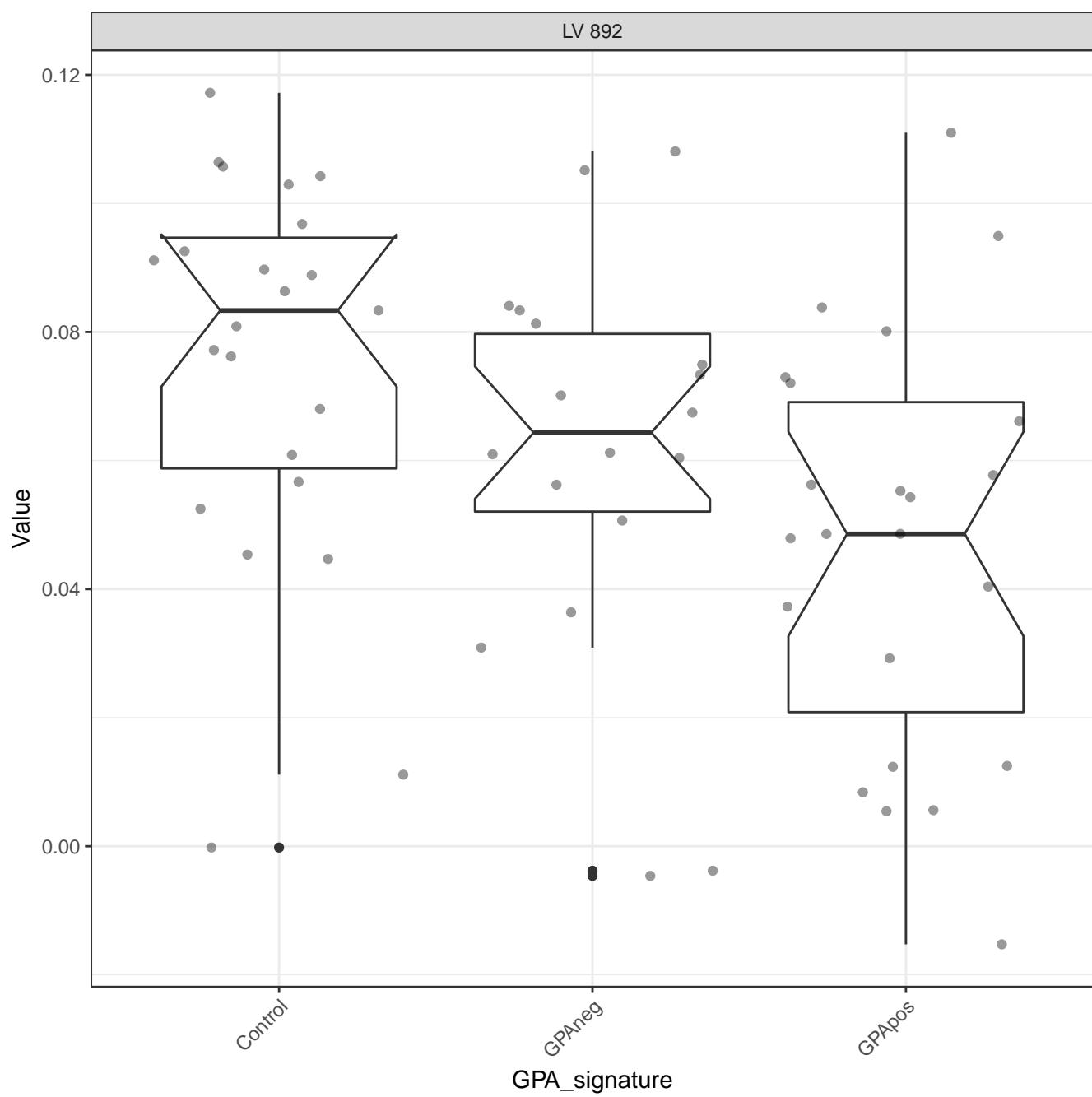


LV 890

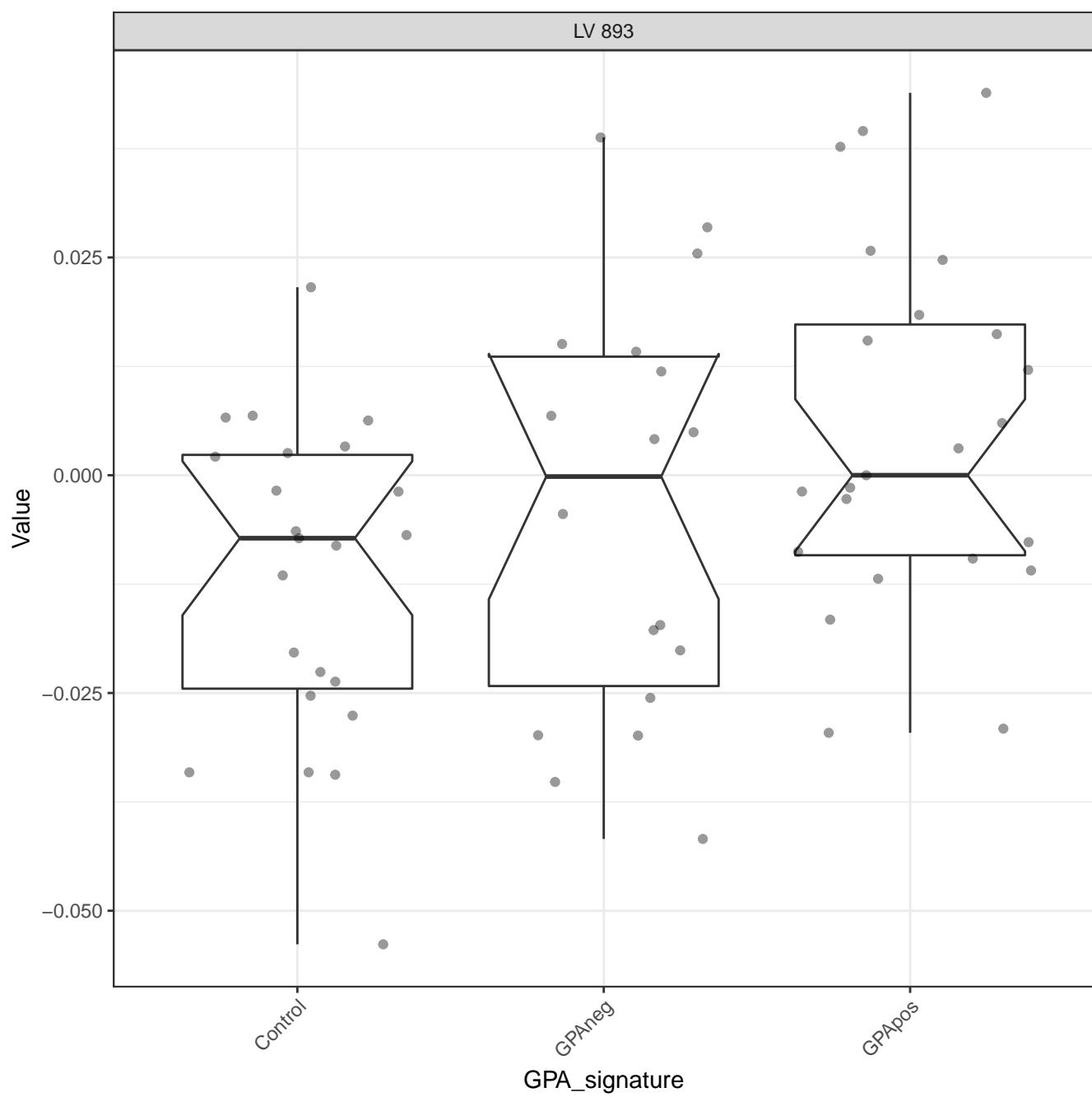




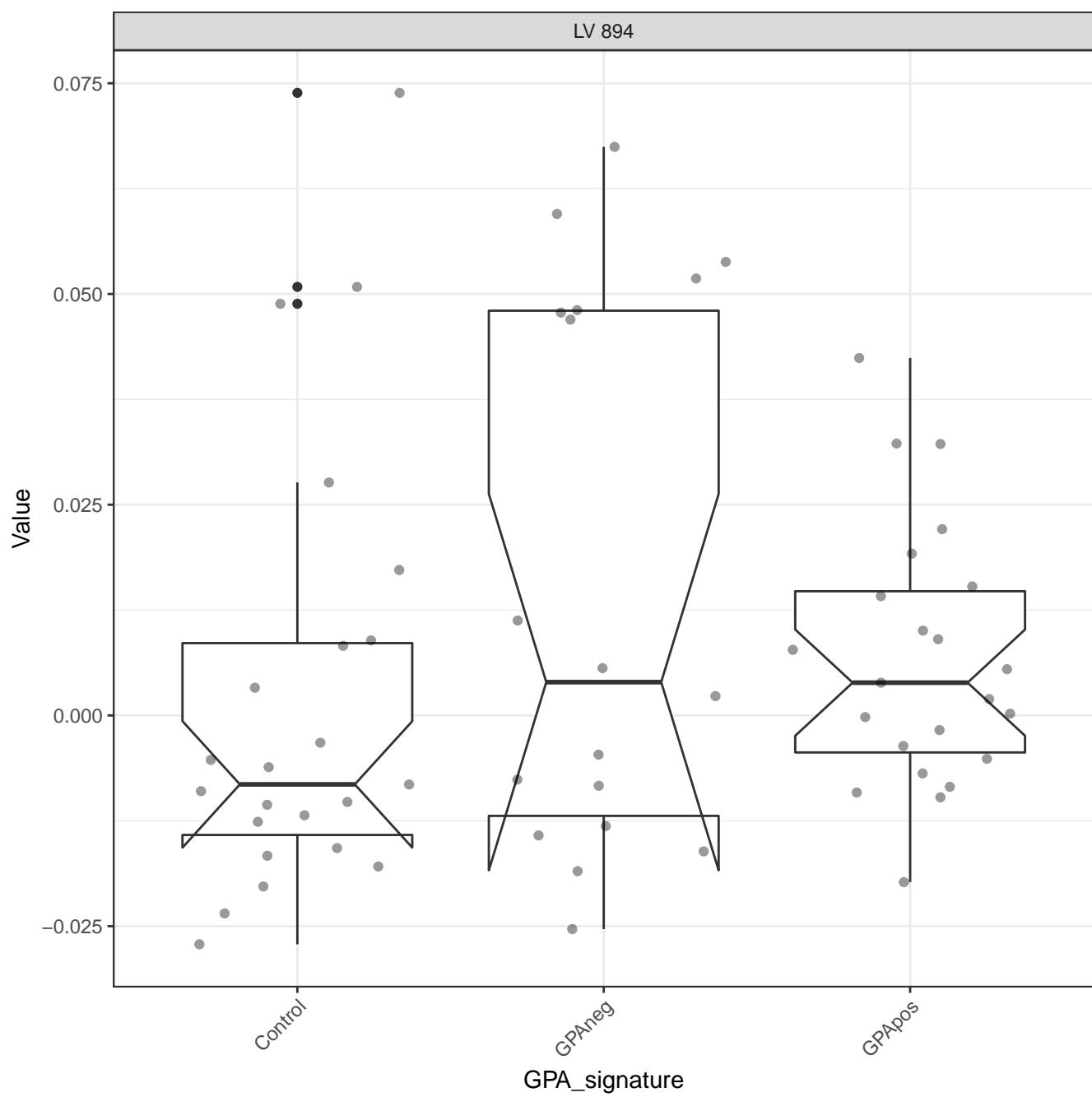
LV 892



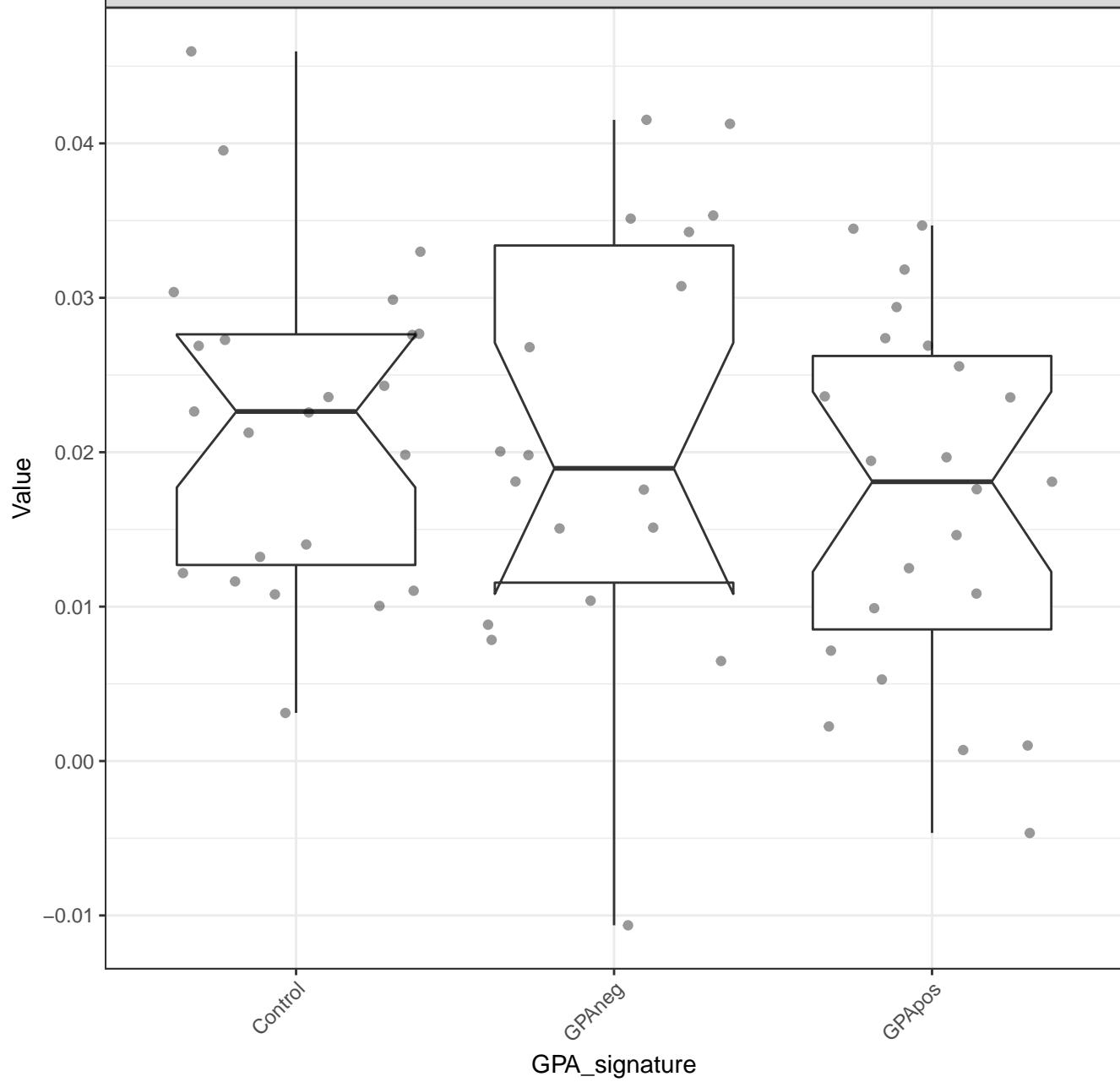
## LV 893



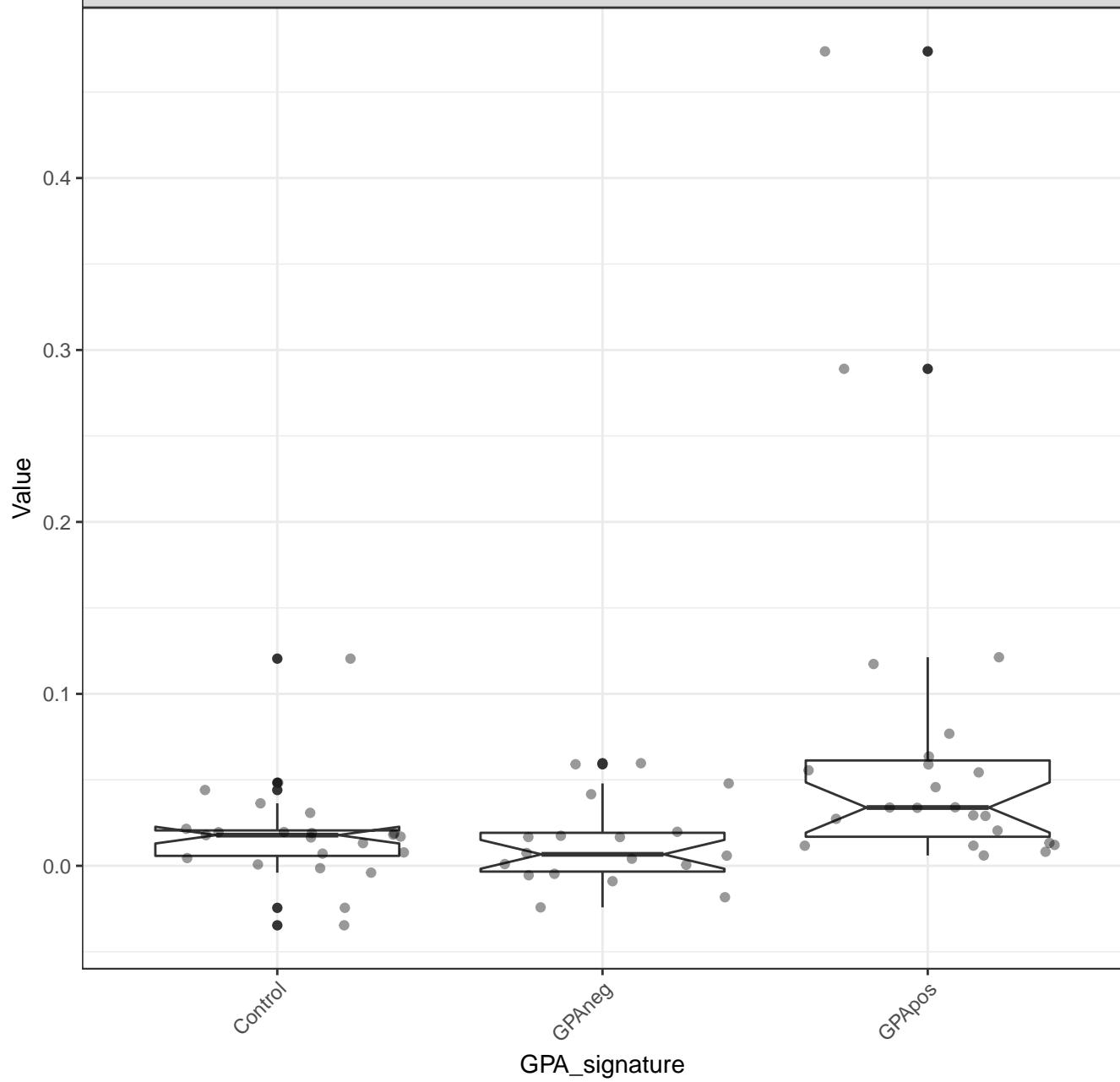
LV 894



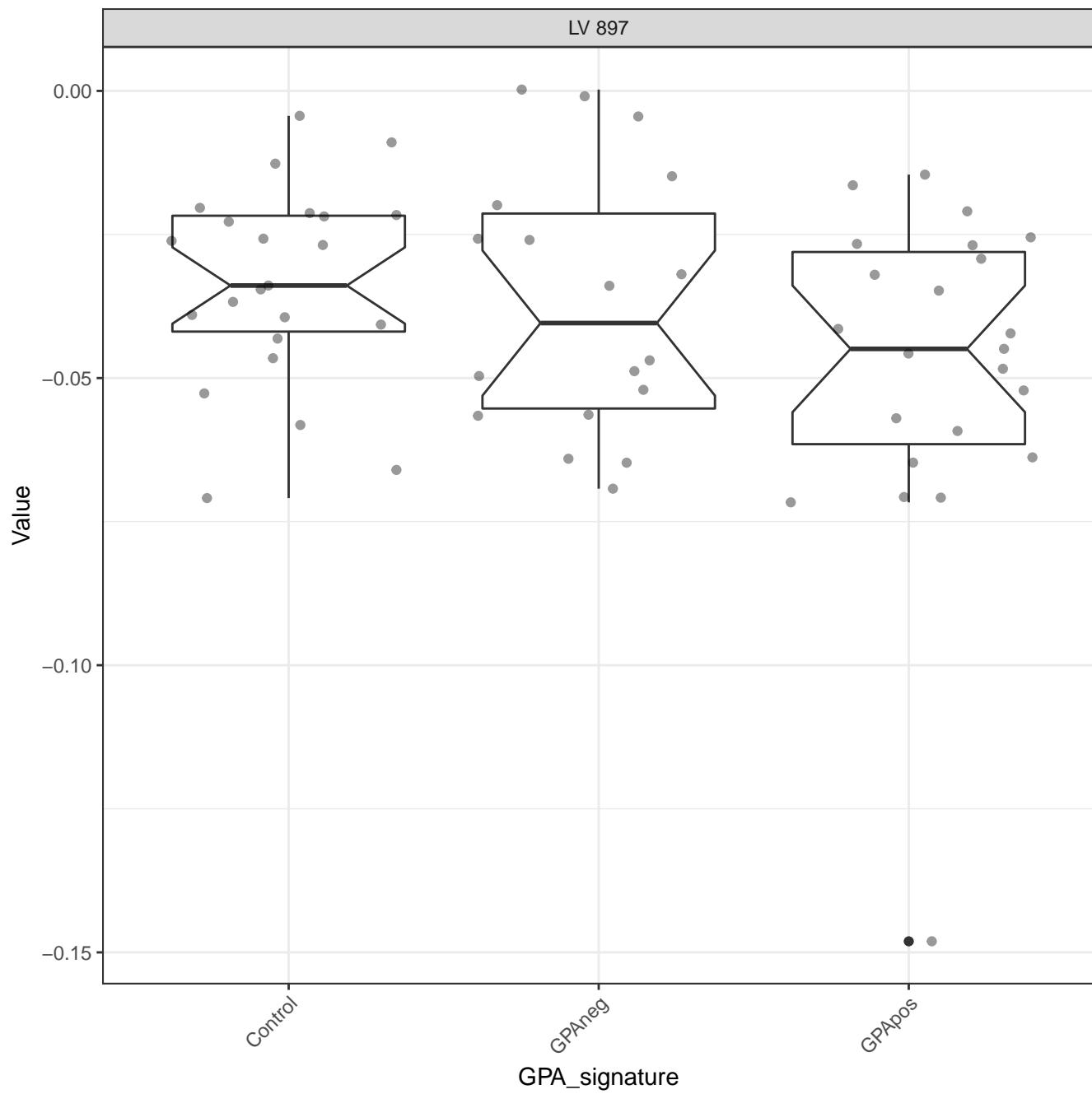
LV 895

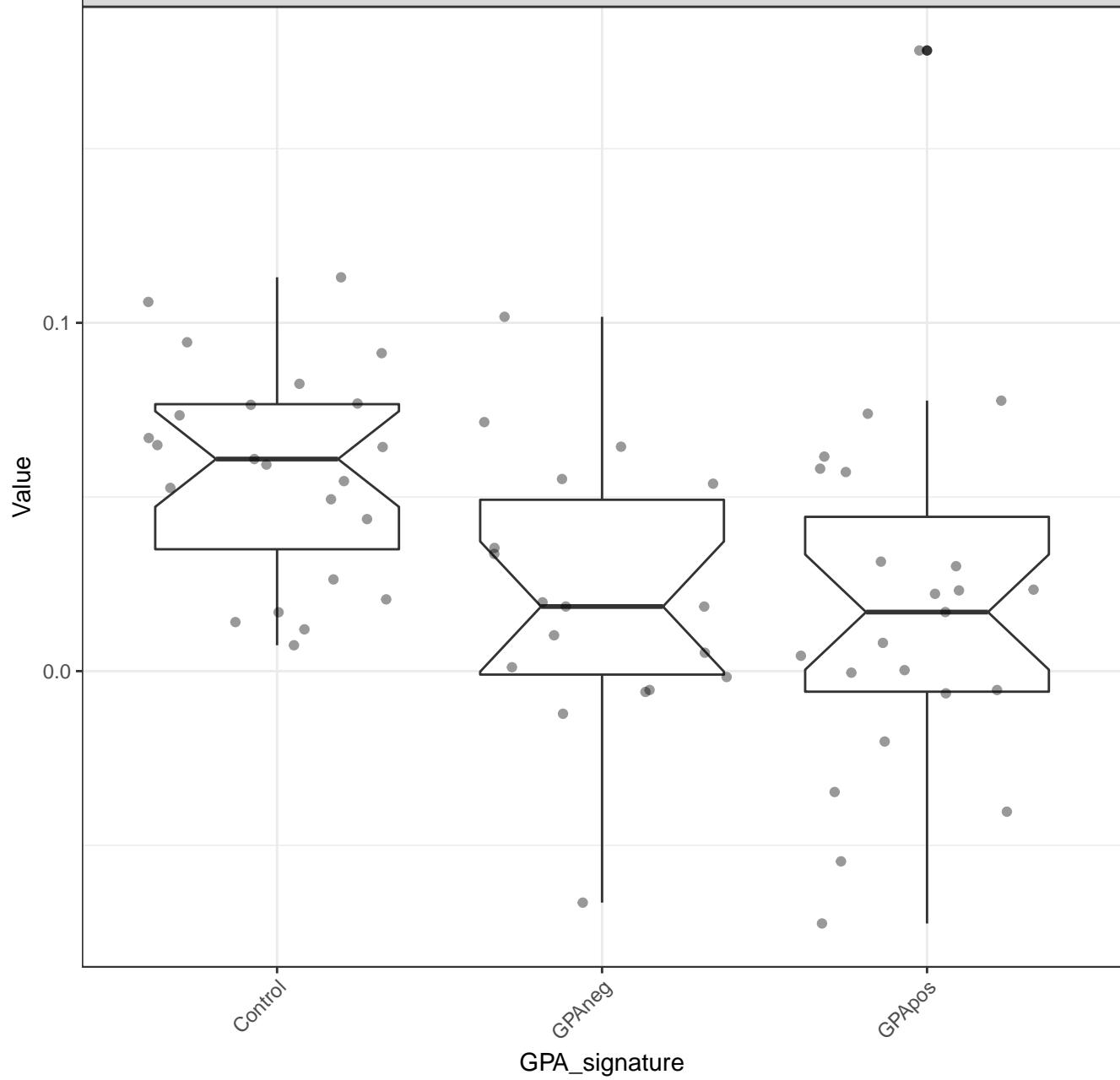


LV 896

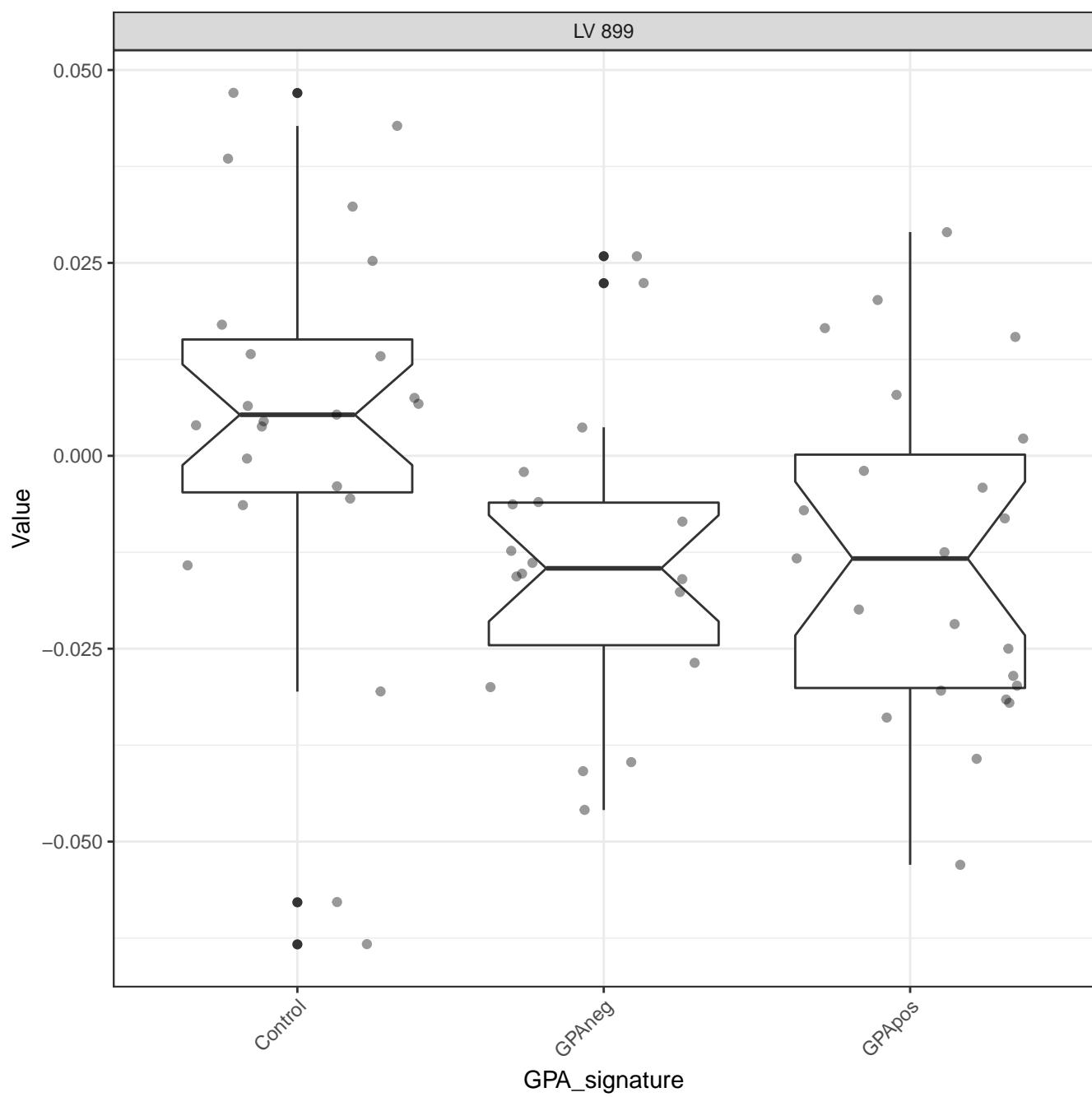


LV 897



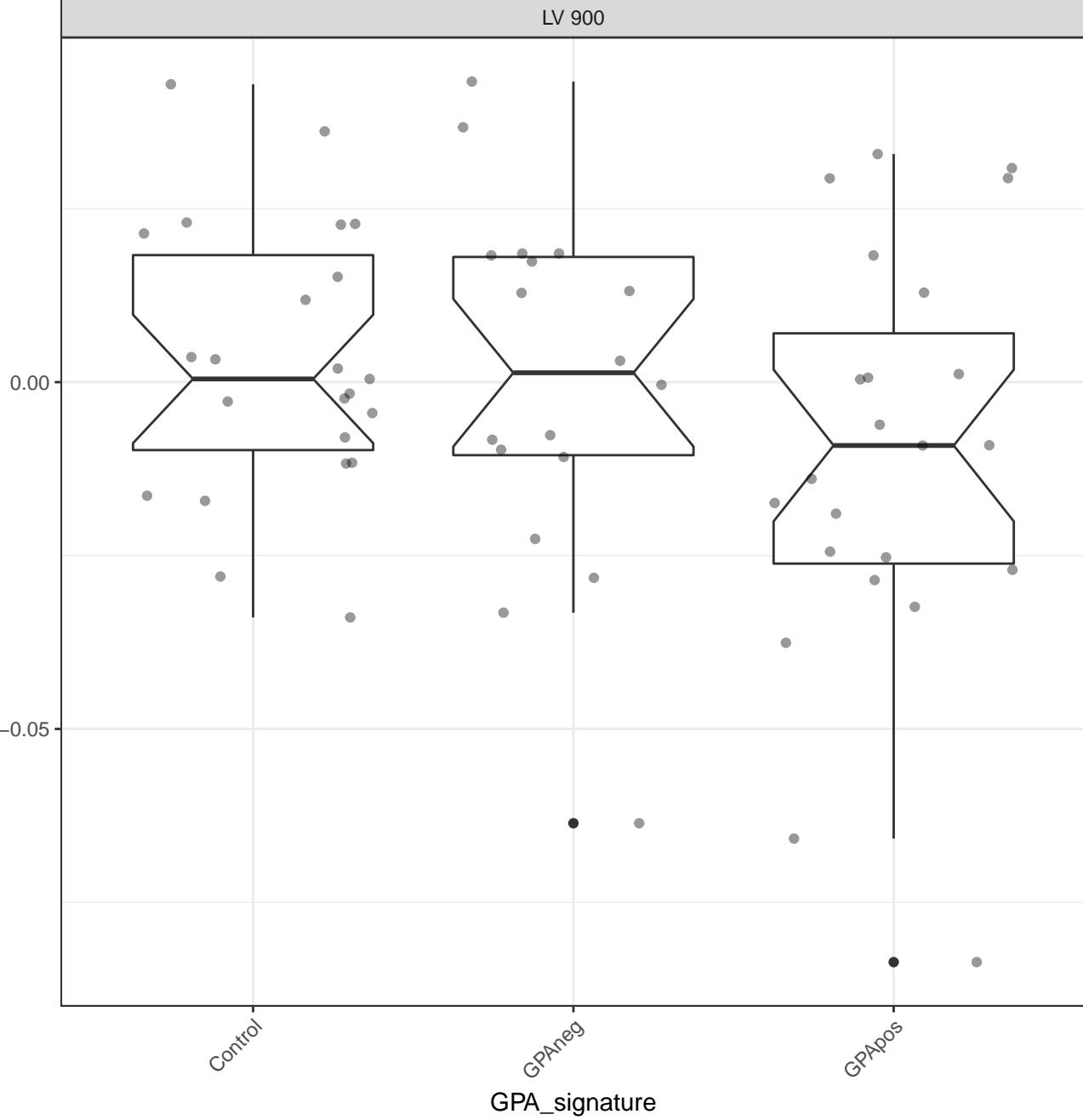


LV 899

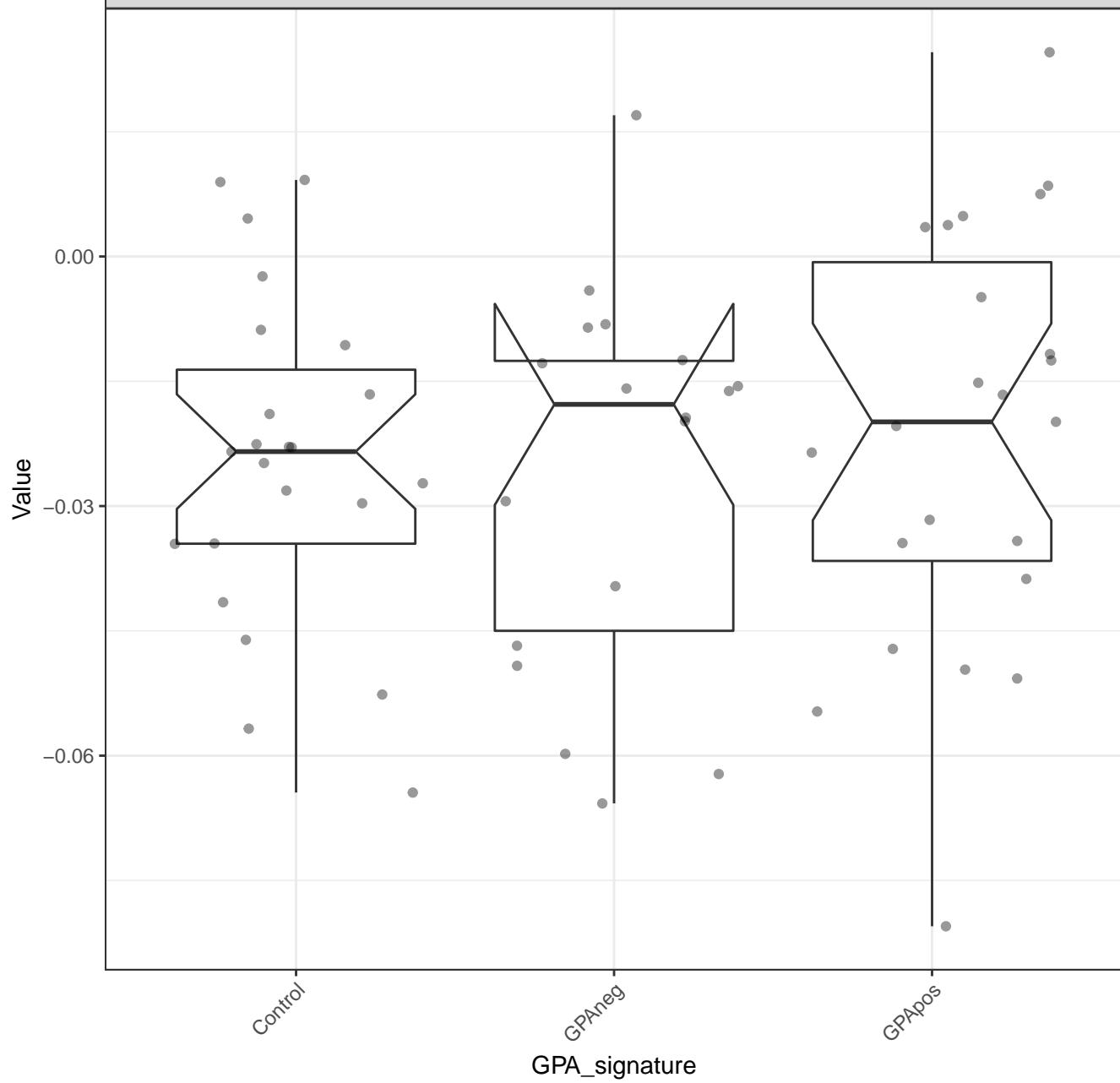


LV 900

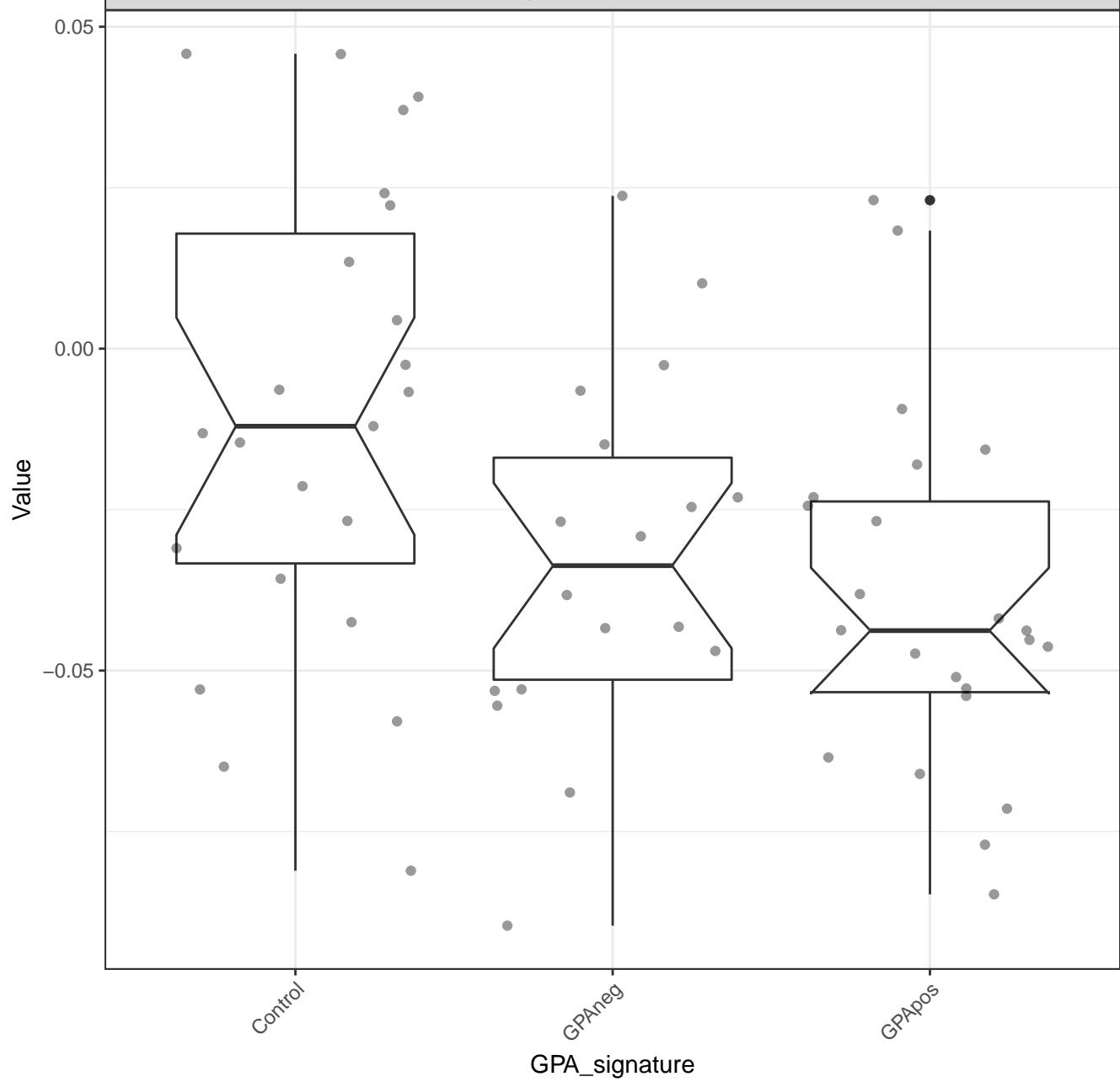
Value



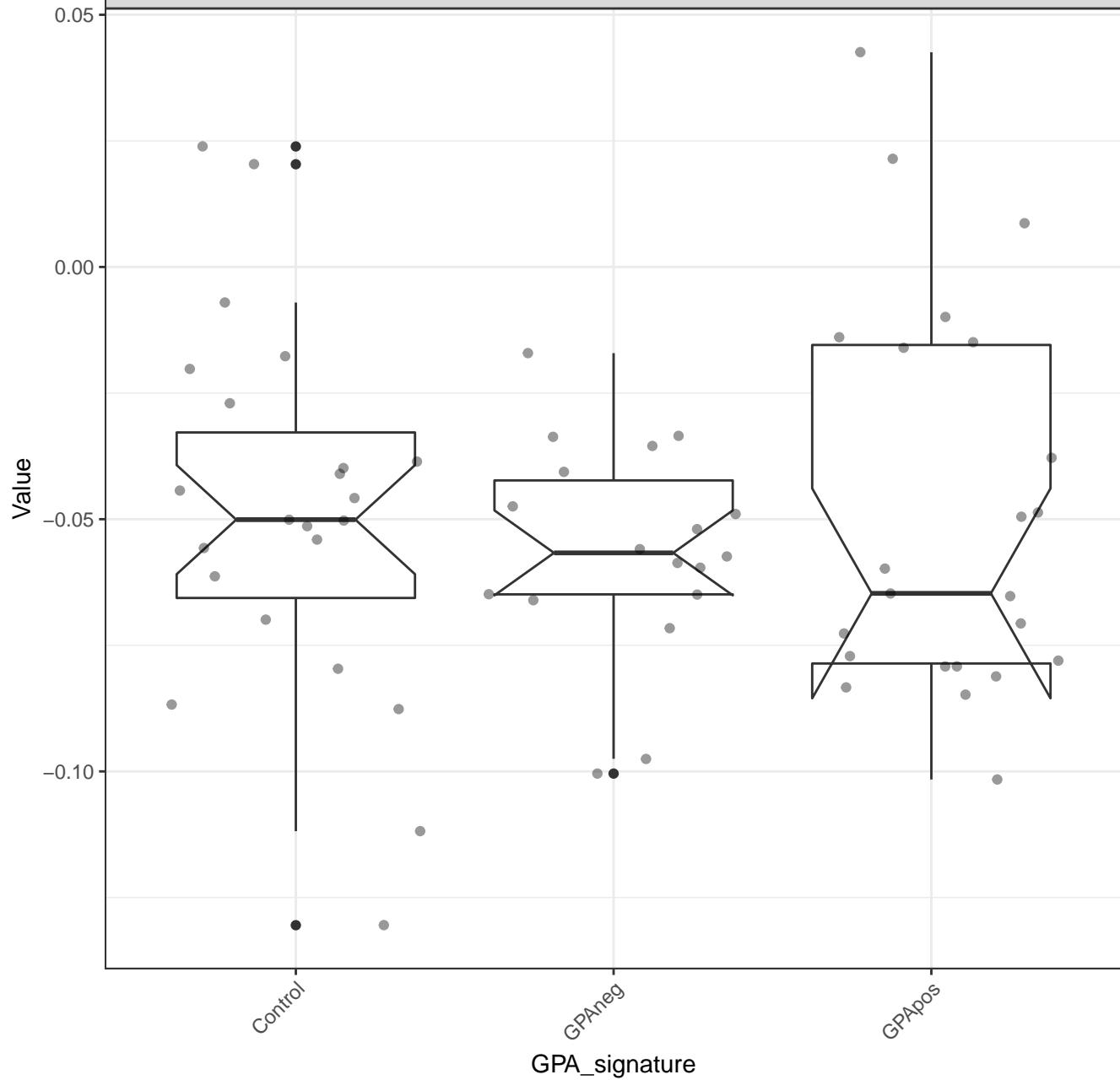
## LV 901



## 902,DMAP\_PRE\_BCELL3



LV 903



## LV 904

Value

0.00

-0.05

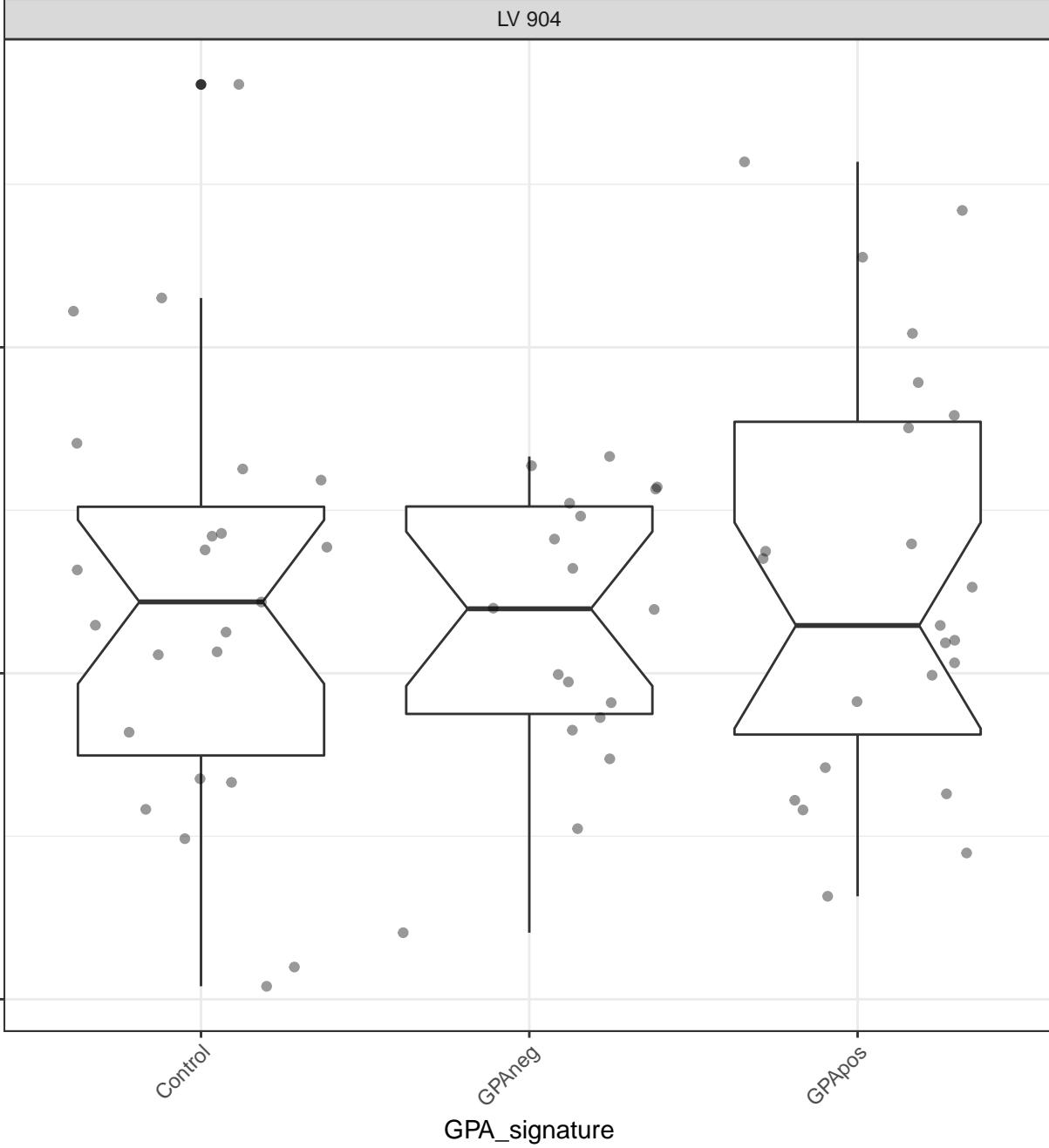
-0.10

Control

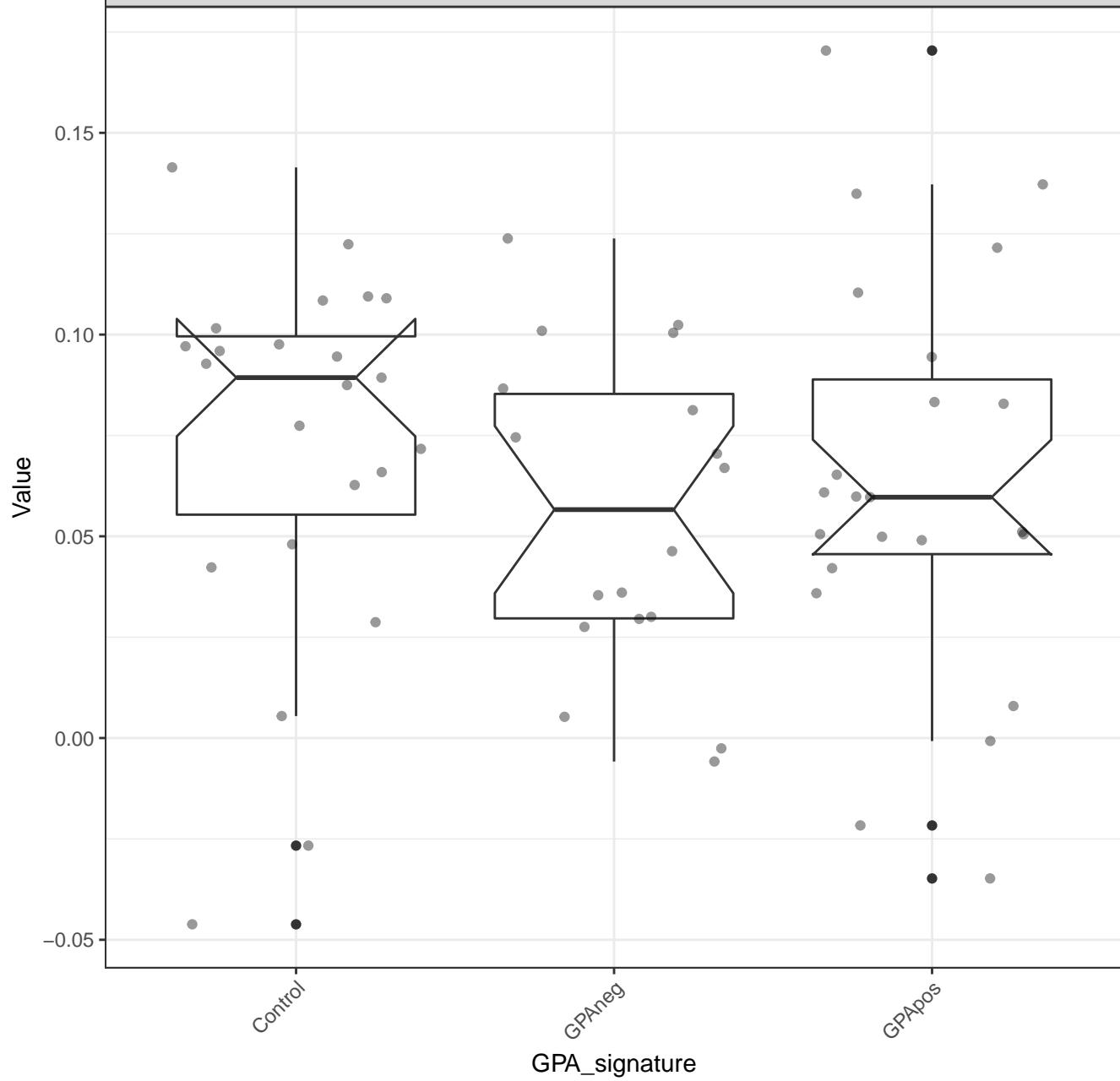
GPAneg

GPAPos

GPA\_signature



## 905,MIPS\_NOP56P\_ASSOCIATED\_PRE\_RRNA\_COMPLEX



## LV 906

Value

0.05

0.00

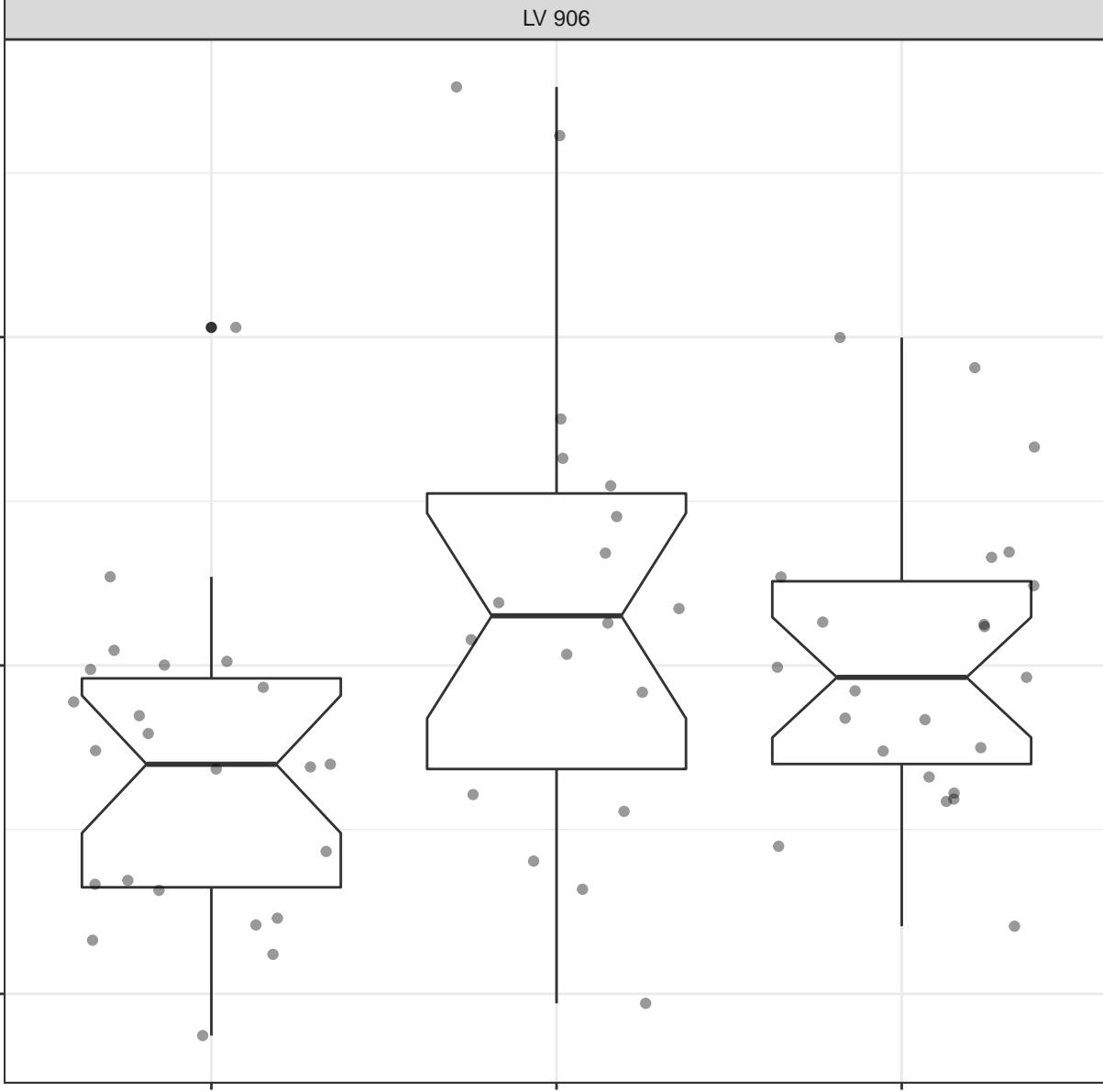
-0.05

Control

GPA\_signature

GPAneg

GPAPos



## LV 907

Value

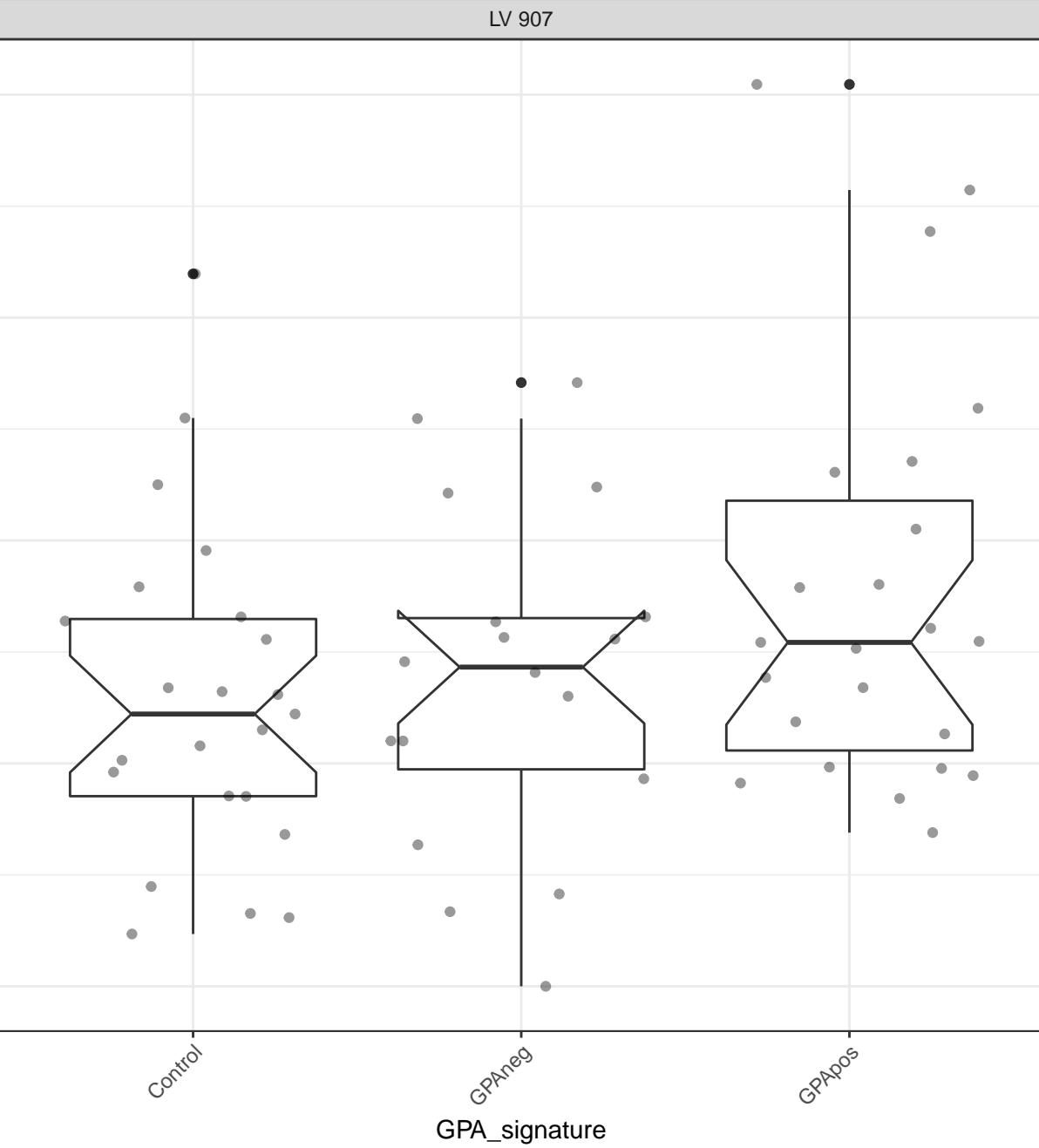
0.06  
0.03  
0.00  
-0.03  
-0.06

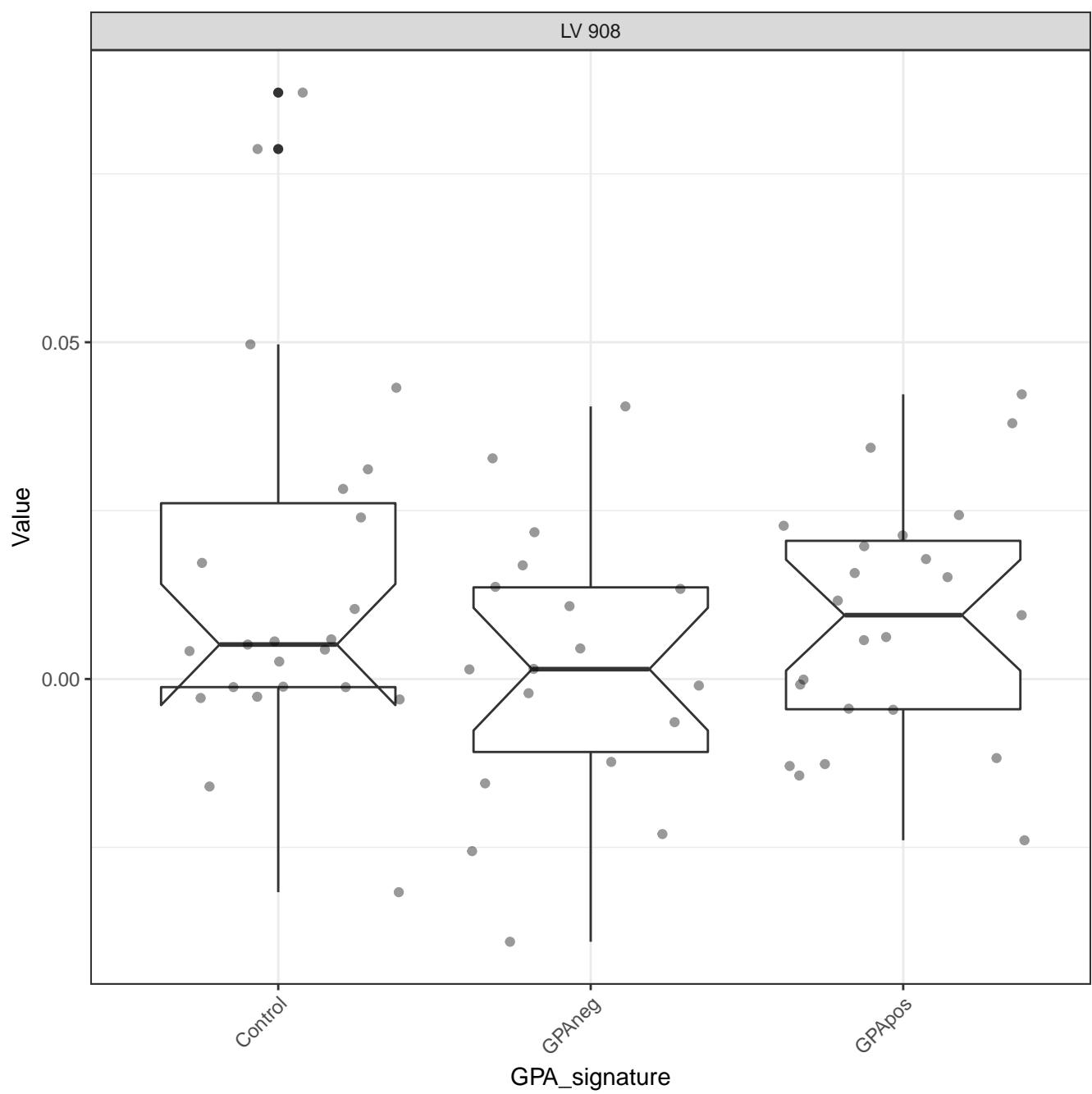
Control

GPAneg

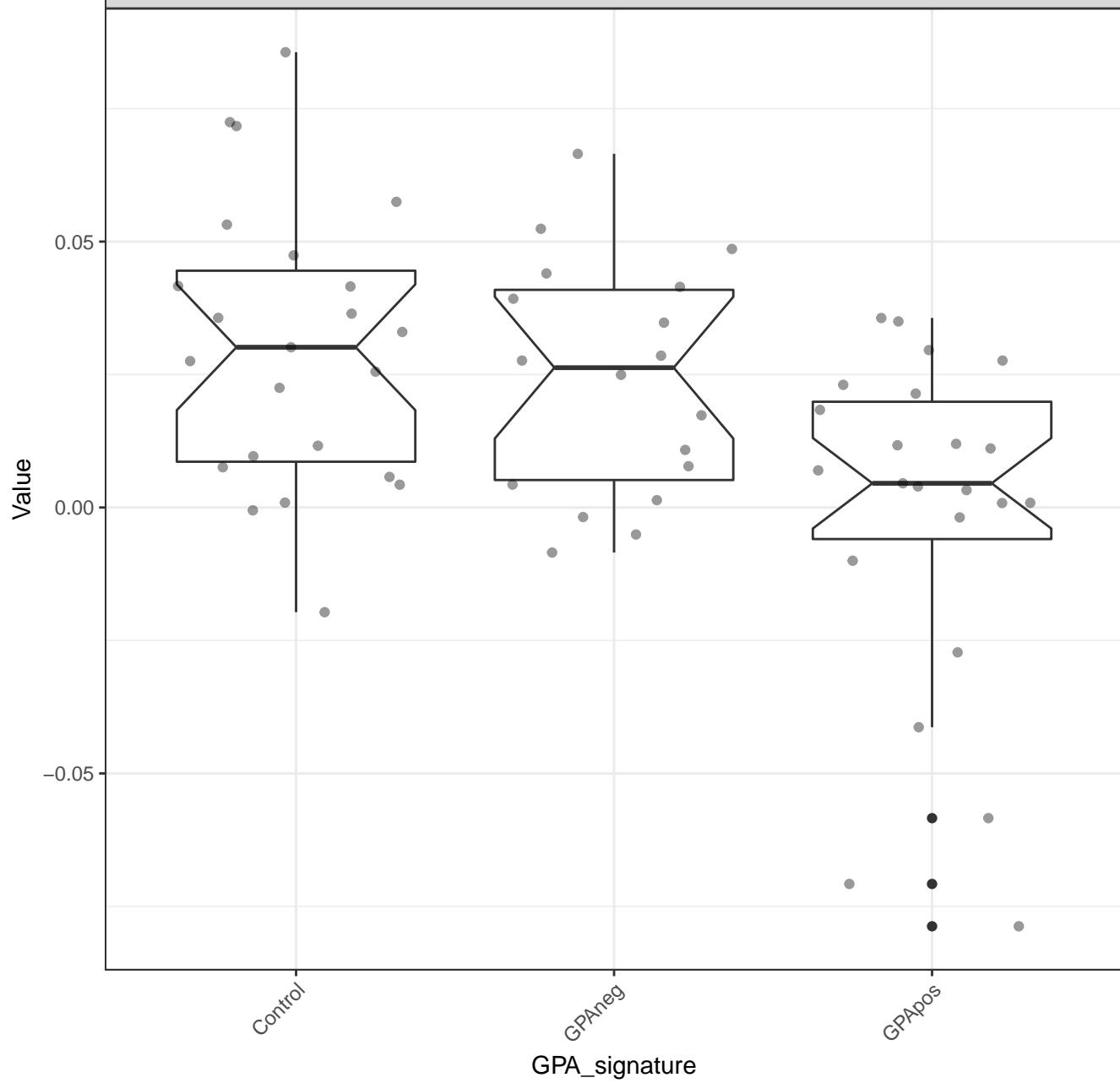
GPAPos

GPA\_signature

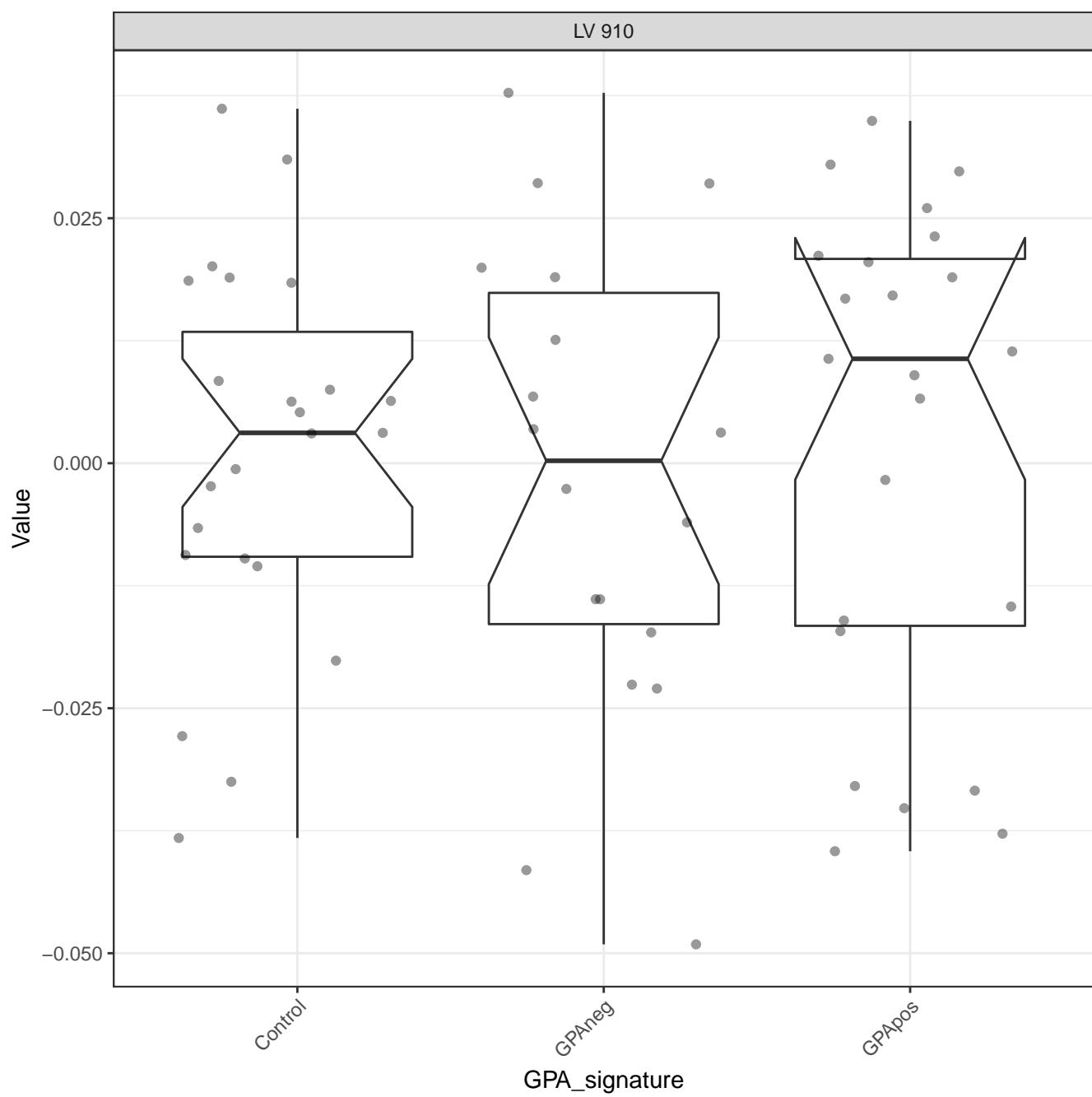




## LV 909



## LV 910



## LV 911

Value

0.05

0.00

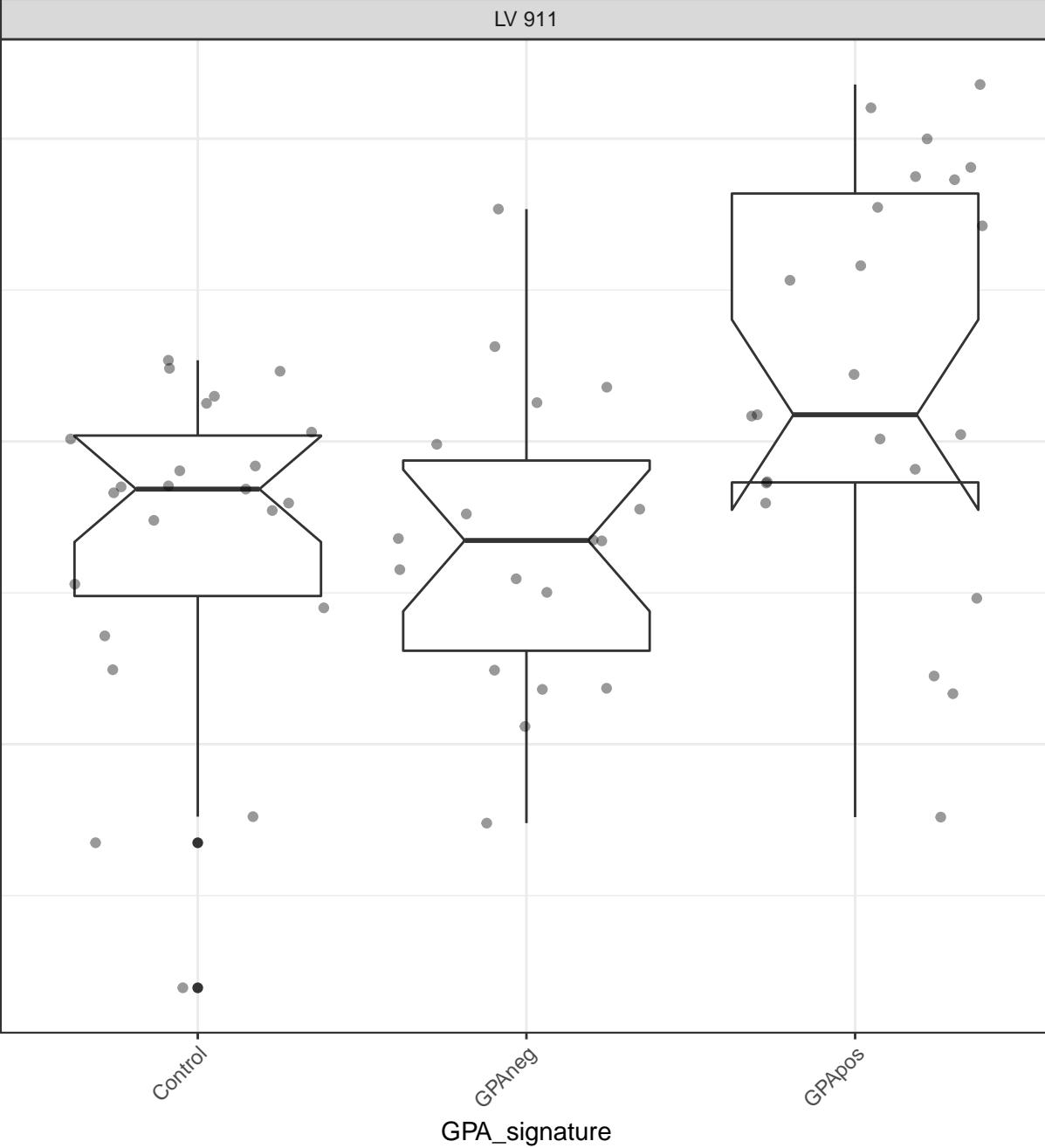
-0.05

Control

GPAneg

GPApos

GPA\_signature



## LV 912

Value

0.05

0.00

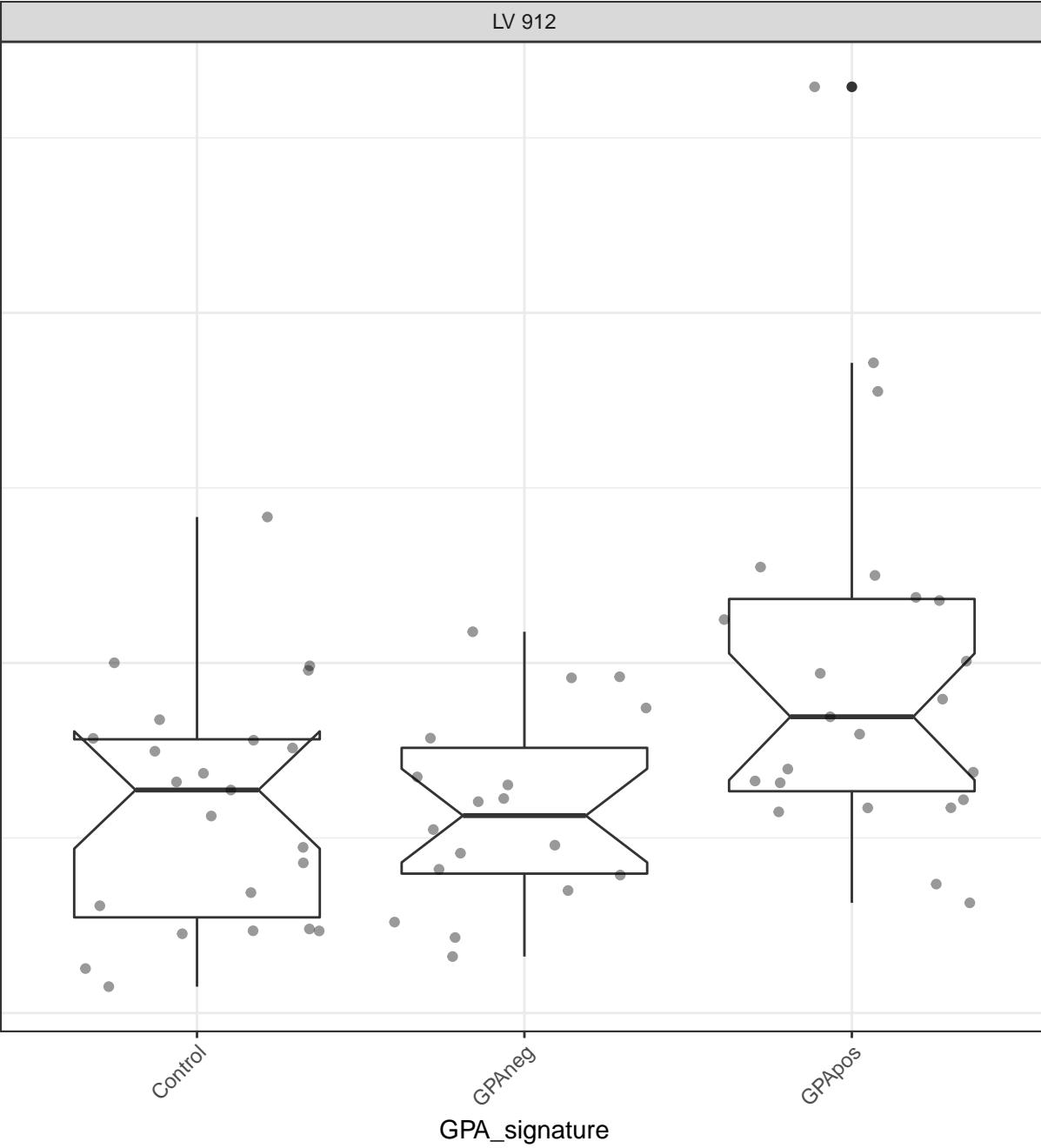
-0.05

Control

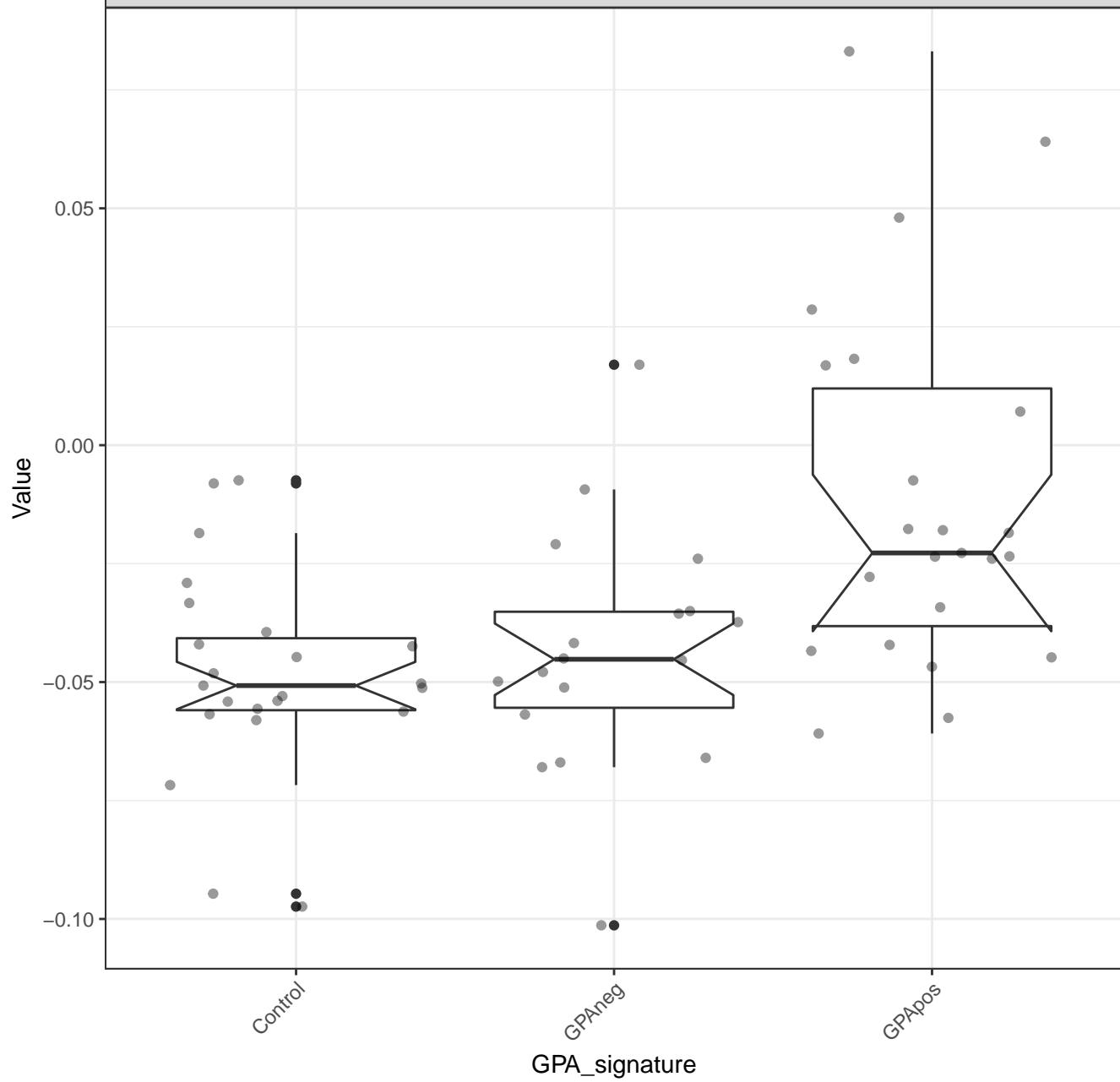
GPAneg

GPAPos

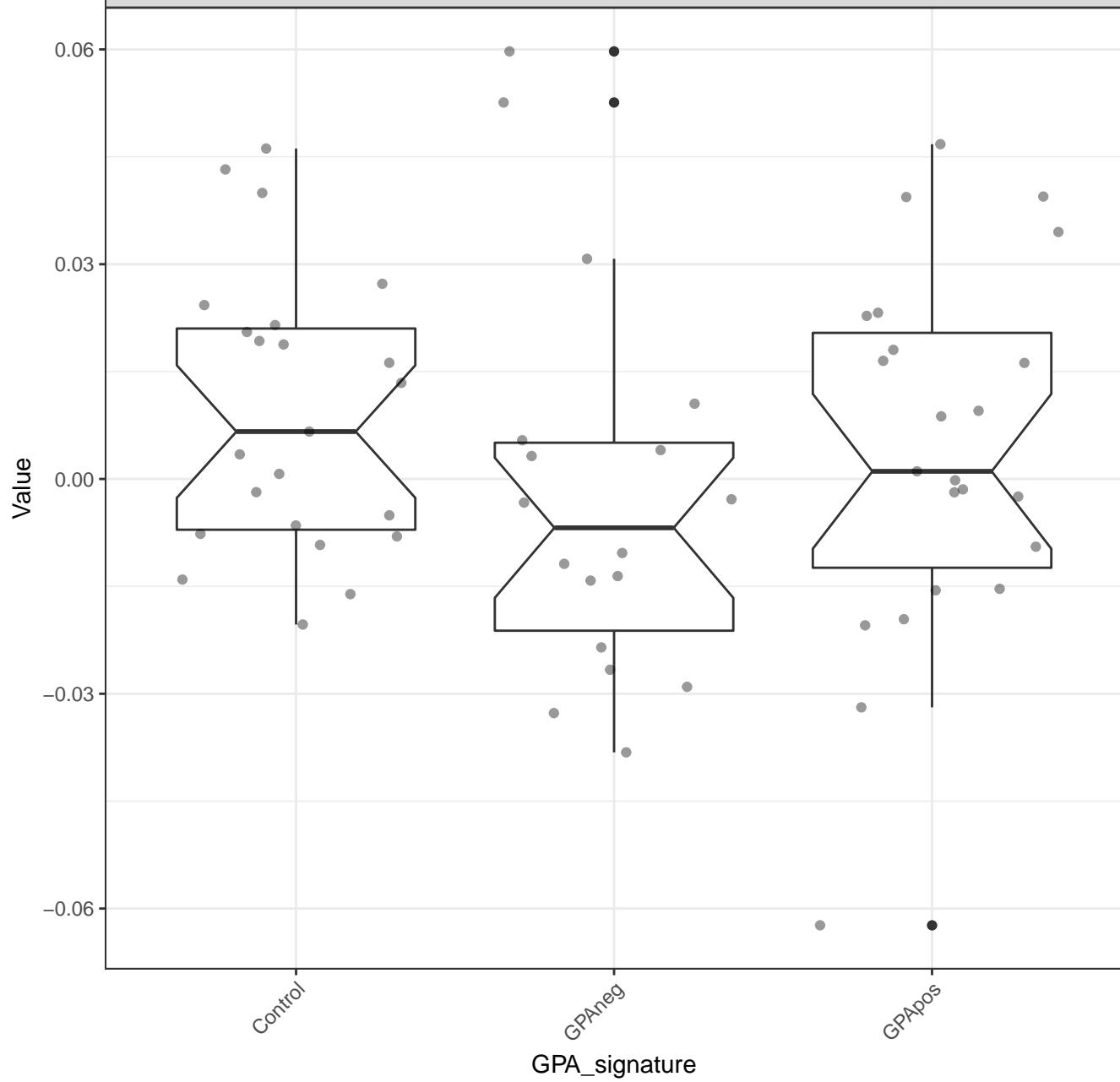
GPA\_signature



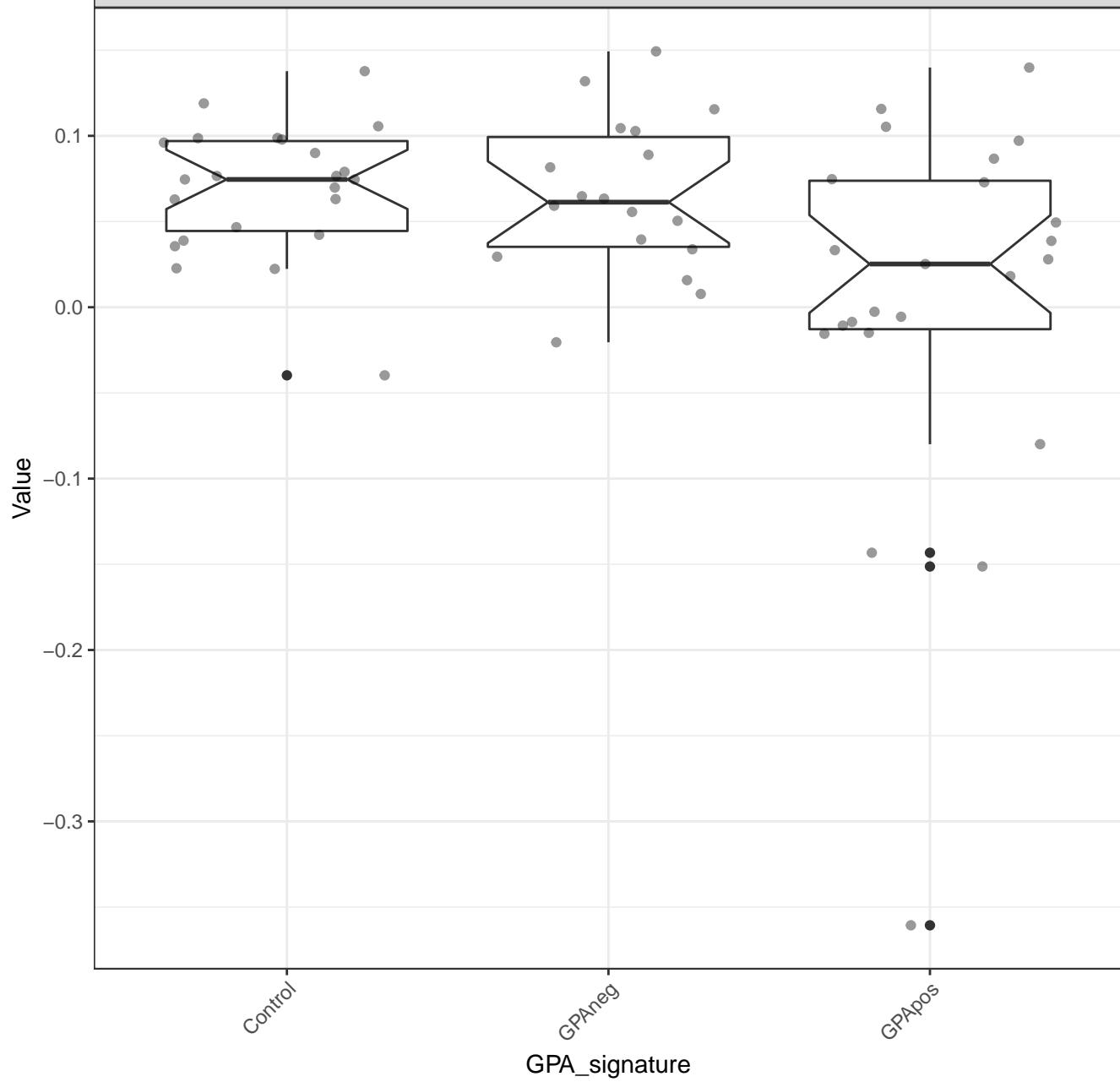
## LV 913



## LV 914



## 915,MIPS\_SPLICEOSOME



## LV 916

Value

0.05

0.00

-0.05

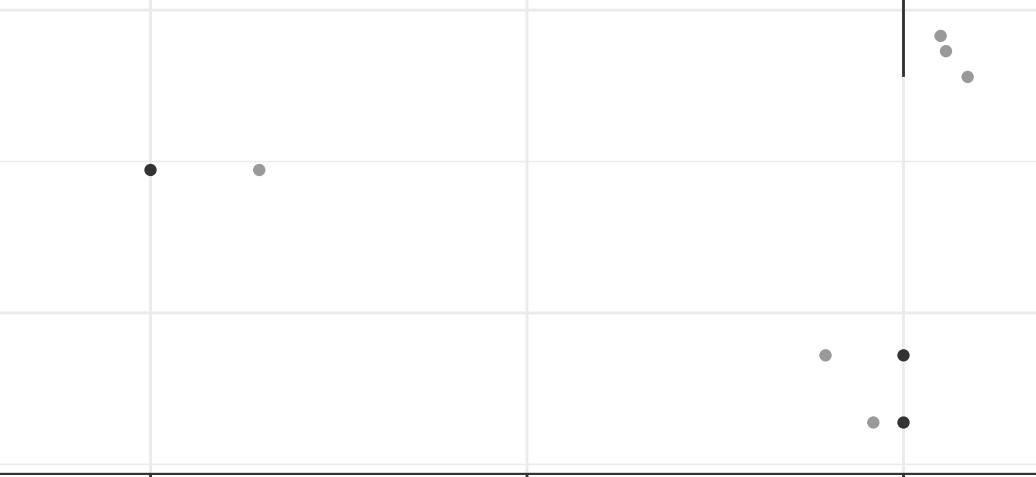
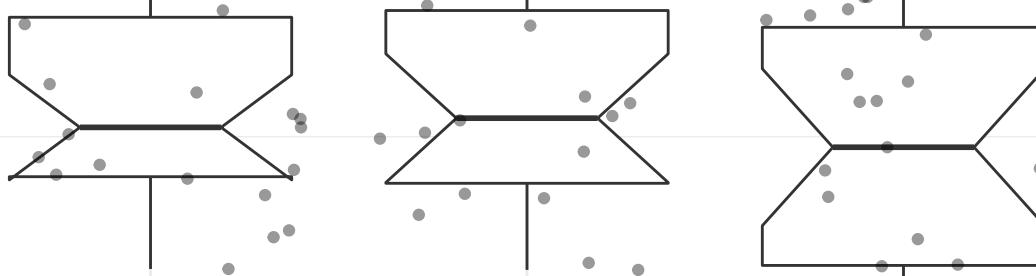
-0.10

Control

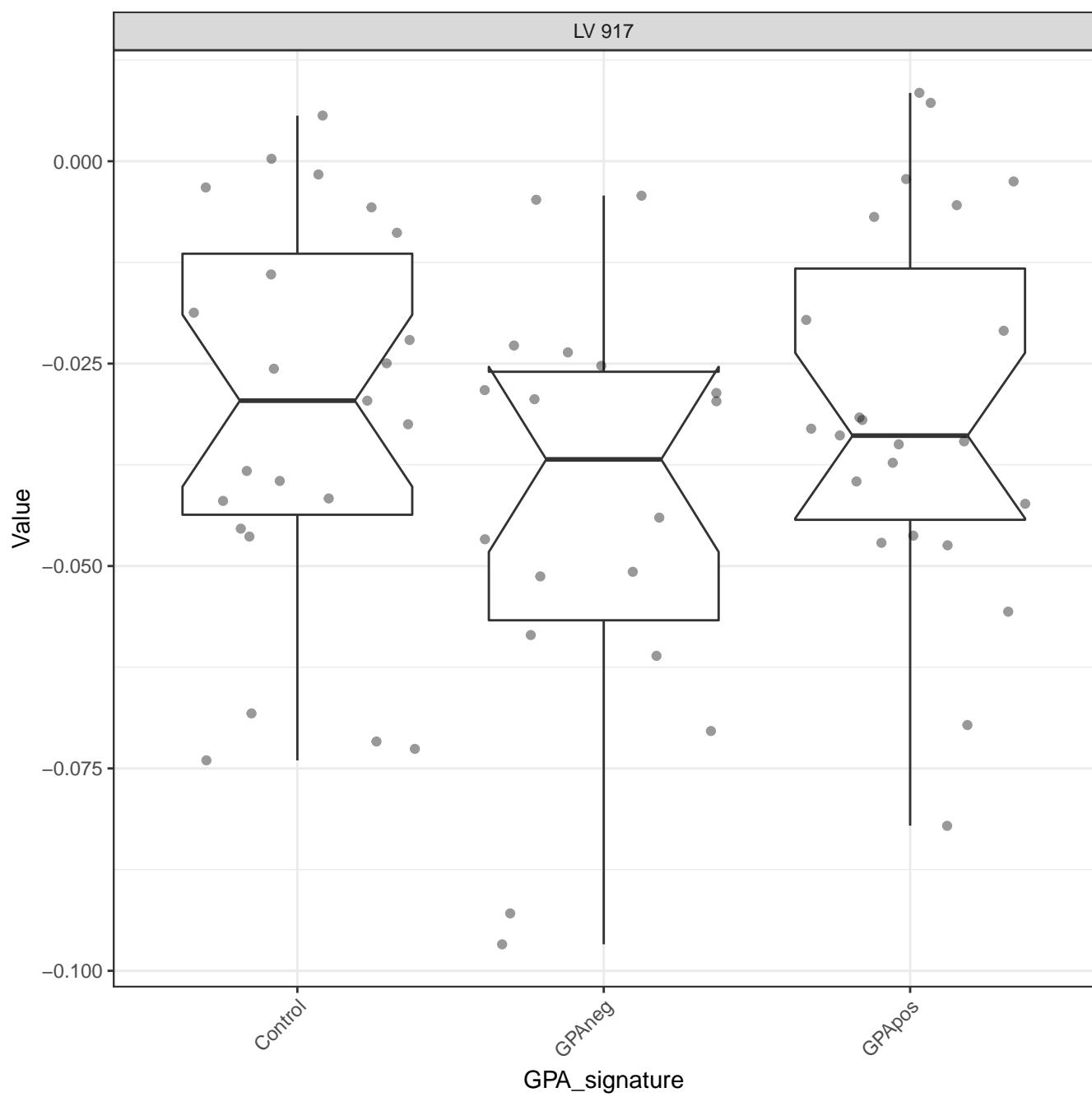
GPAneg

GPAPos

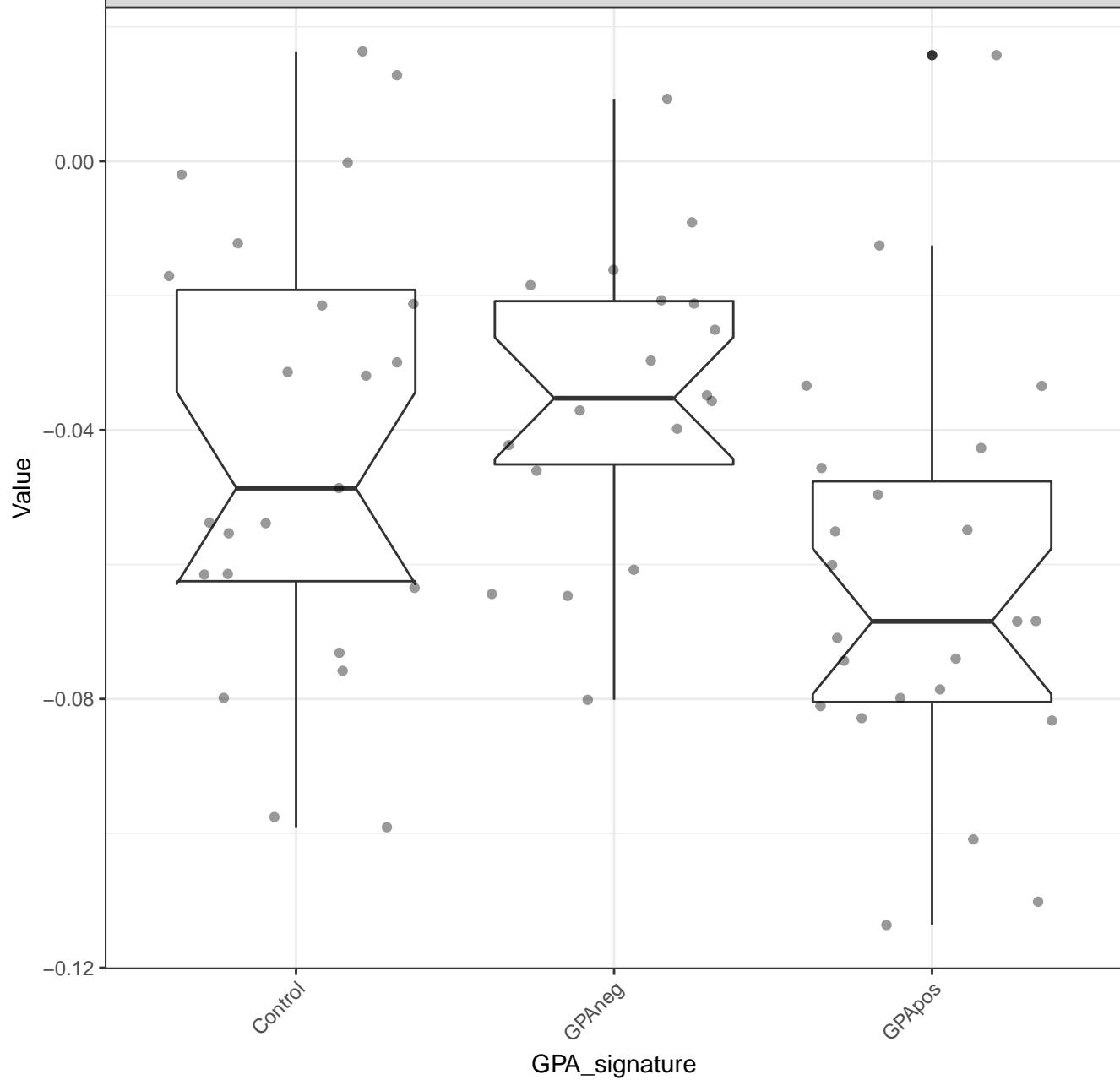
GPA\_signature



## LV 917



## LV 918



## LV 919

Value

0.05

0.00

-0.05

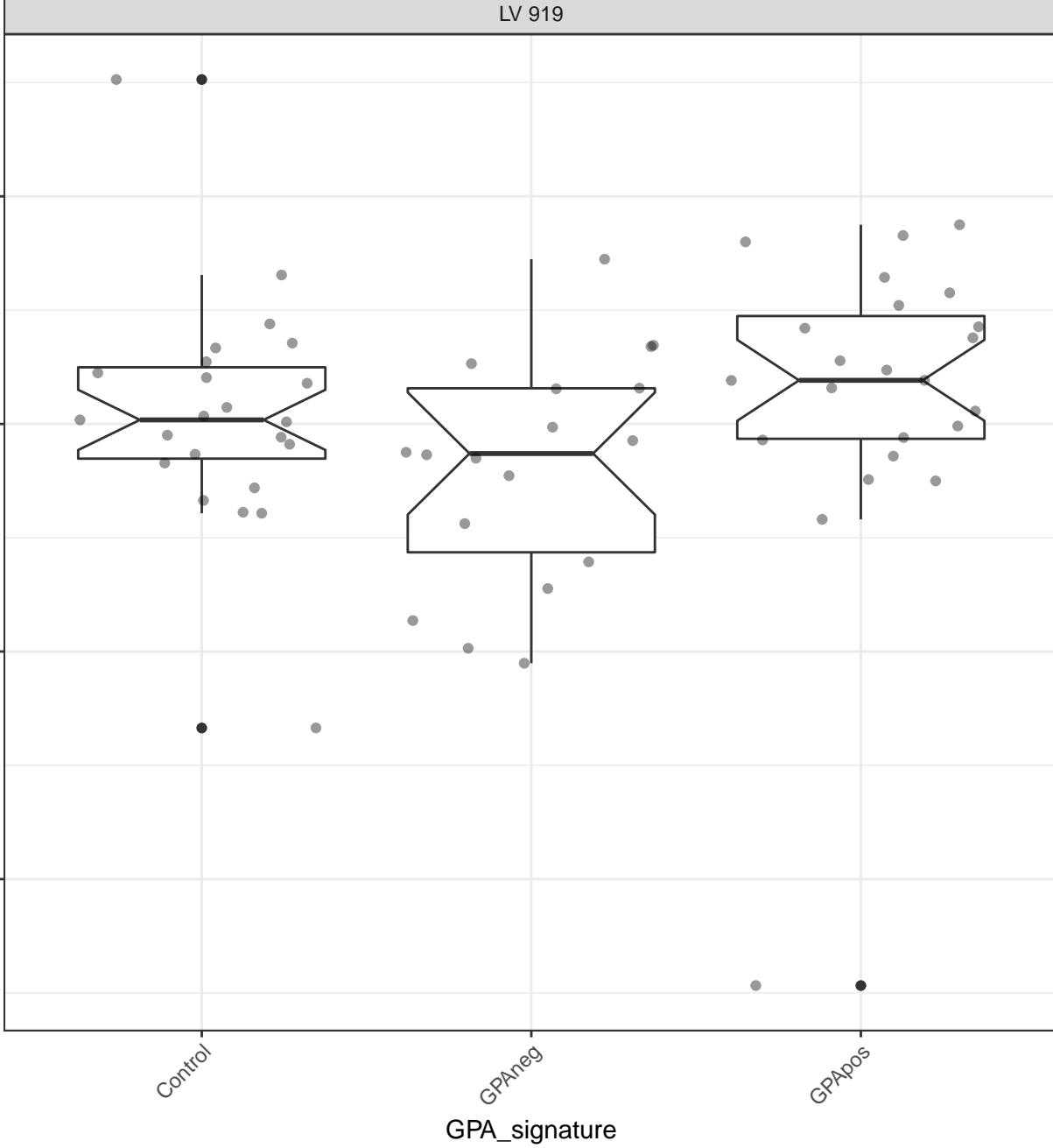
-0.10

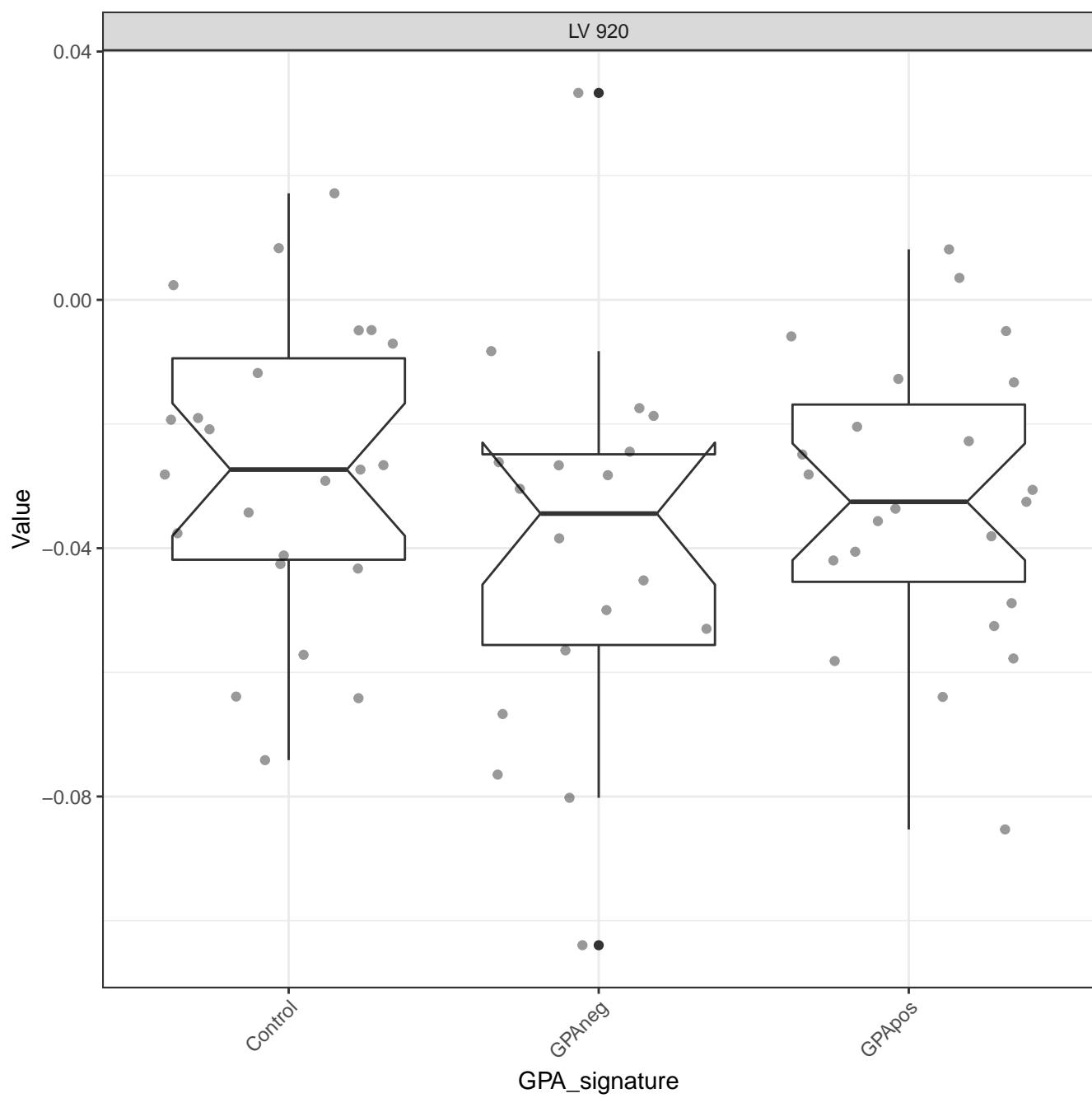
Control

GPAneg

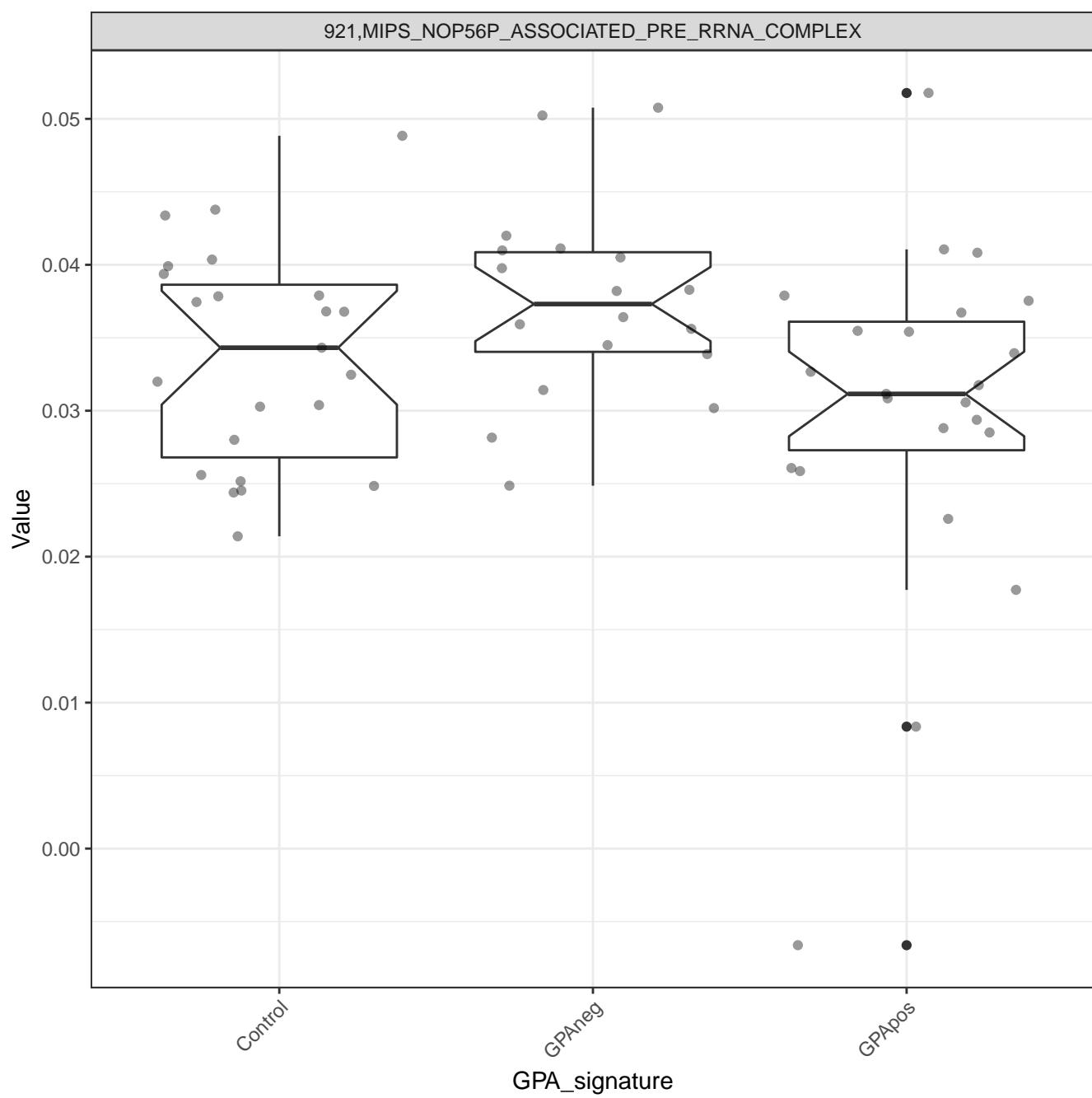
GPApos

GPA\_signature





## 921,MIPS\_NOP56P\_ASSOCIATED\_PRE\_RRNA\_COMPLEX



## LV 922

Value

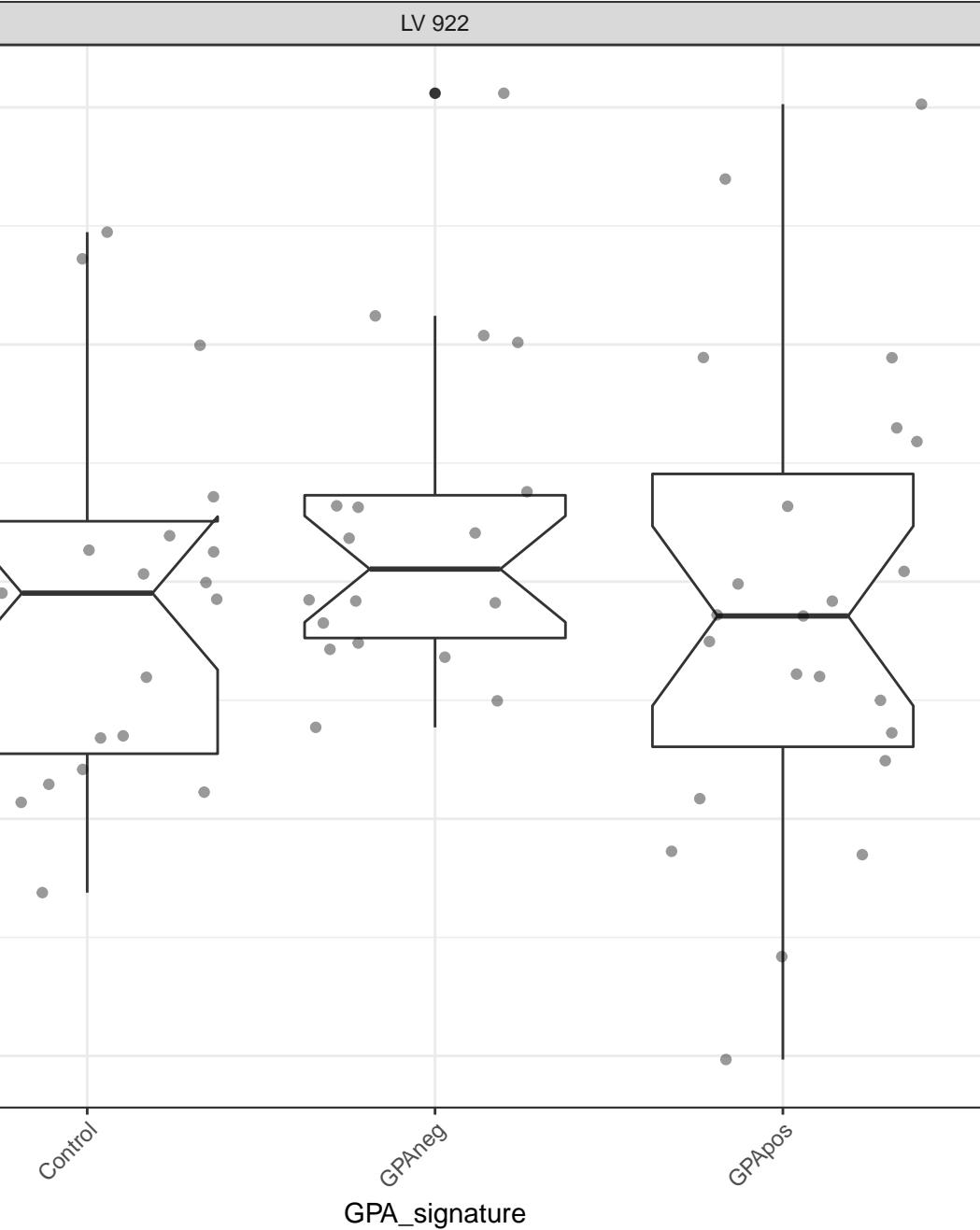
0.075  
0.050  
0.025  
0.000  
-0.025

Control

GPA\_signature

GPAneg

GPAPos



## LV 923

Value

0.05

0.01

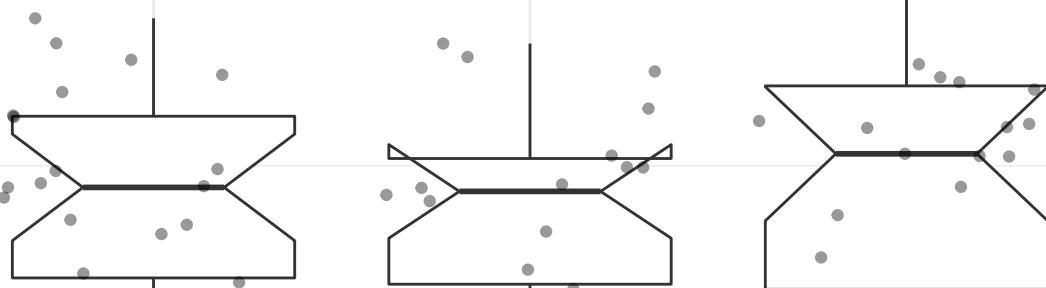
-0.05

Control

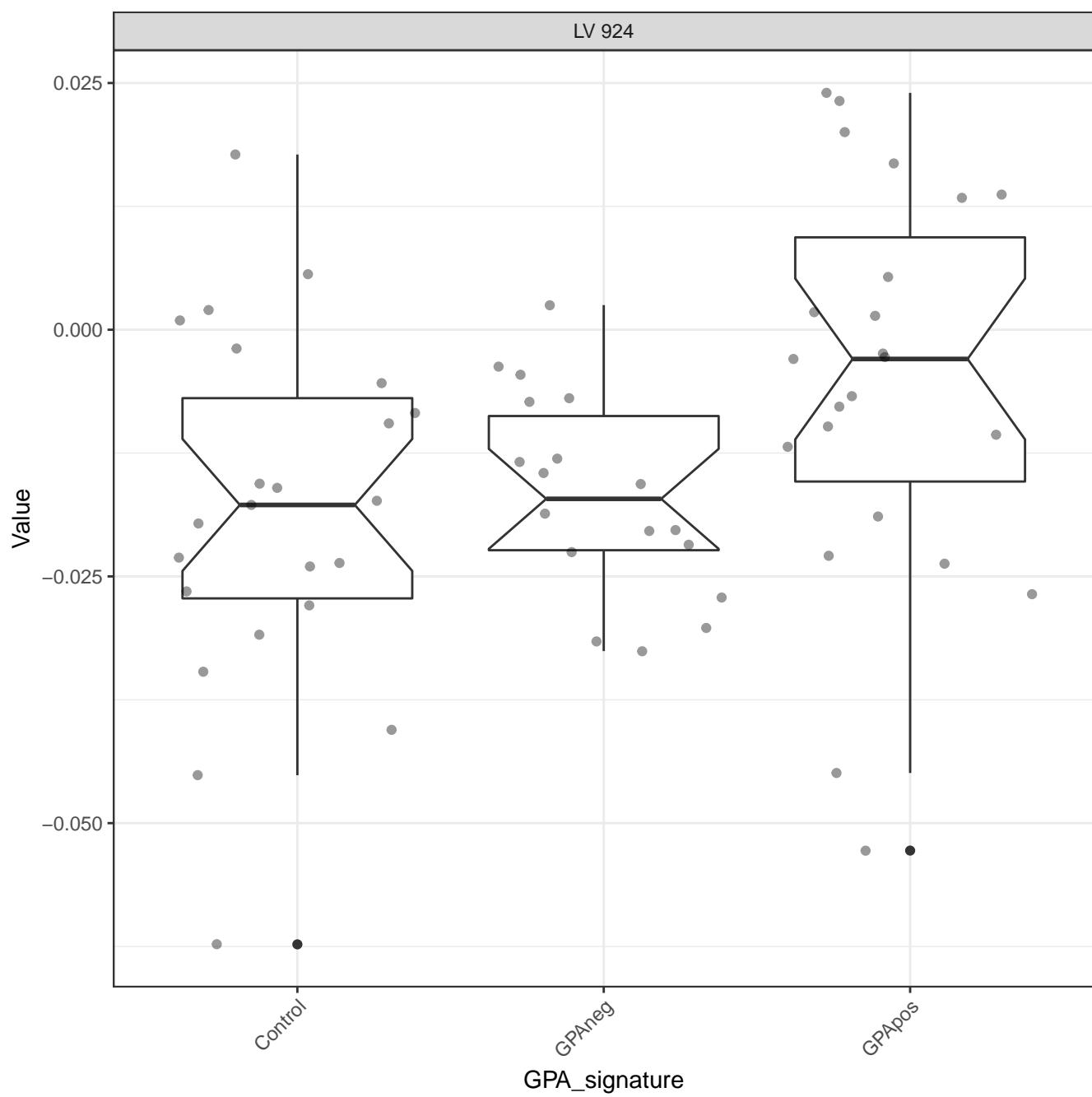
GPAneg

GPAPos

GPA\_signature



## LV 924



LV 925

Value

0.05

0.00

-0.05

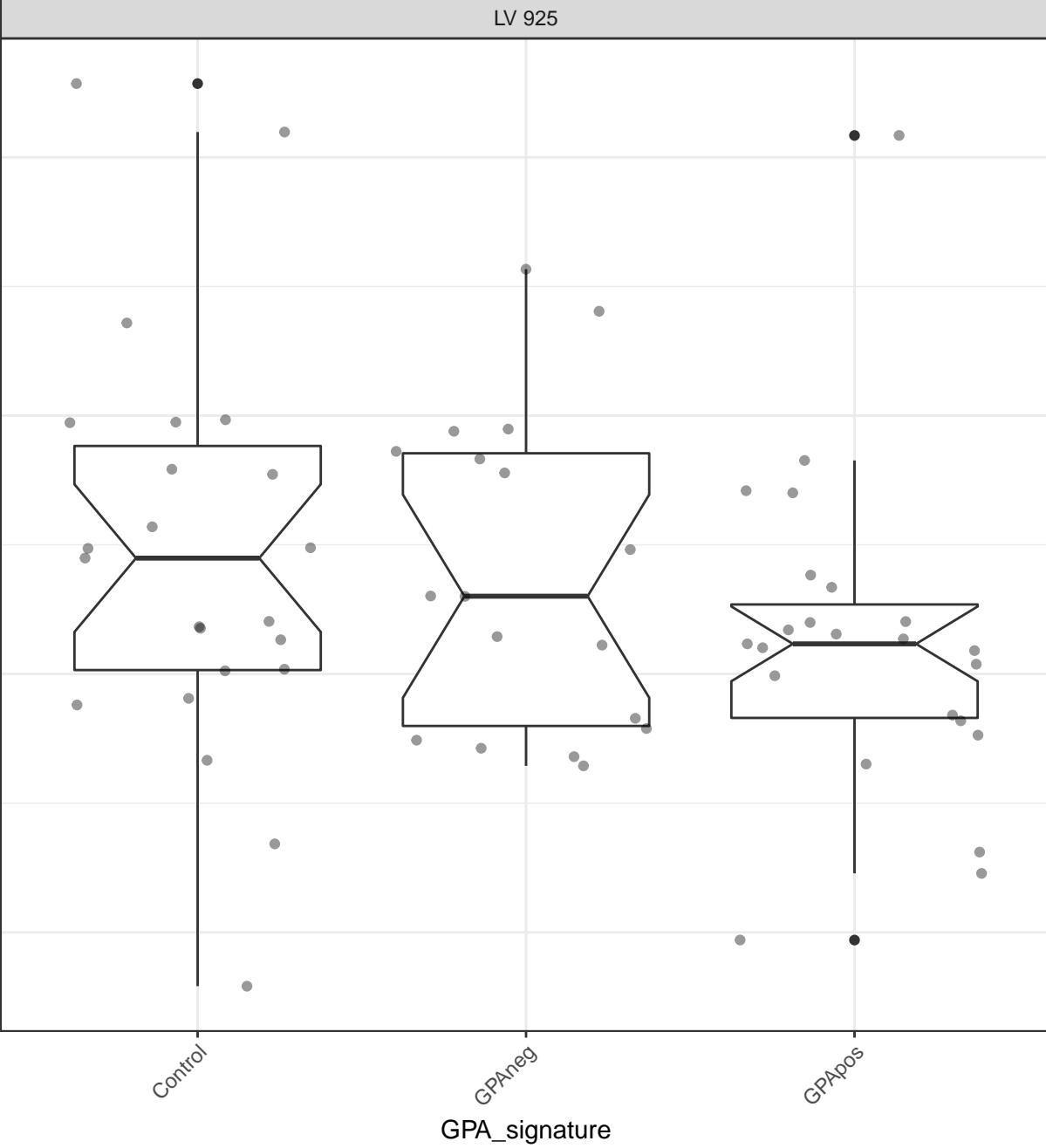
-0.10

Control

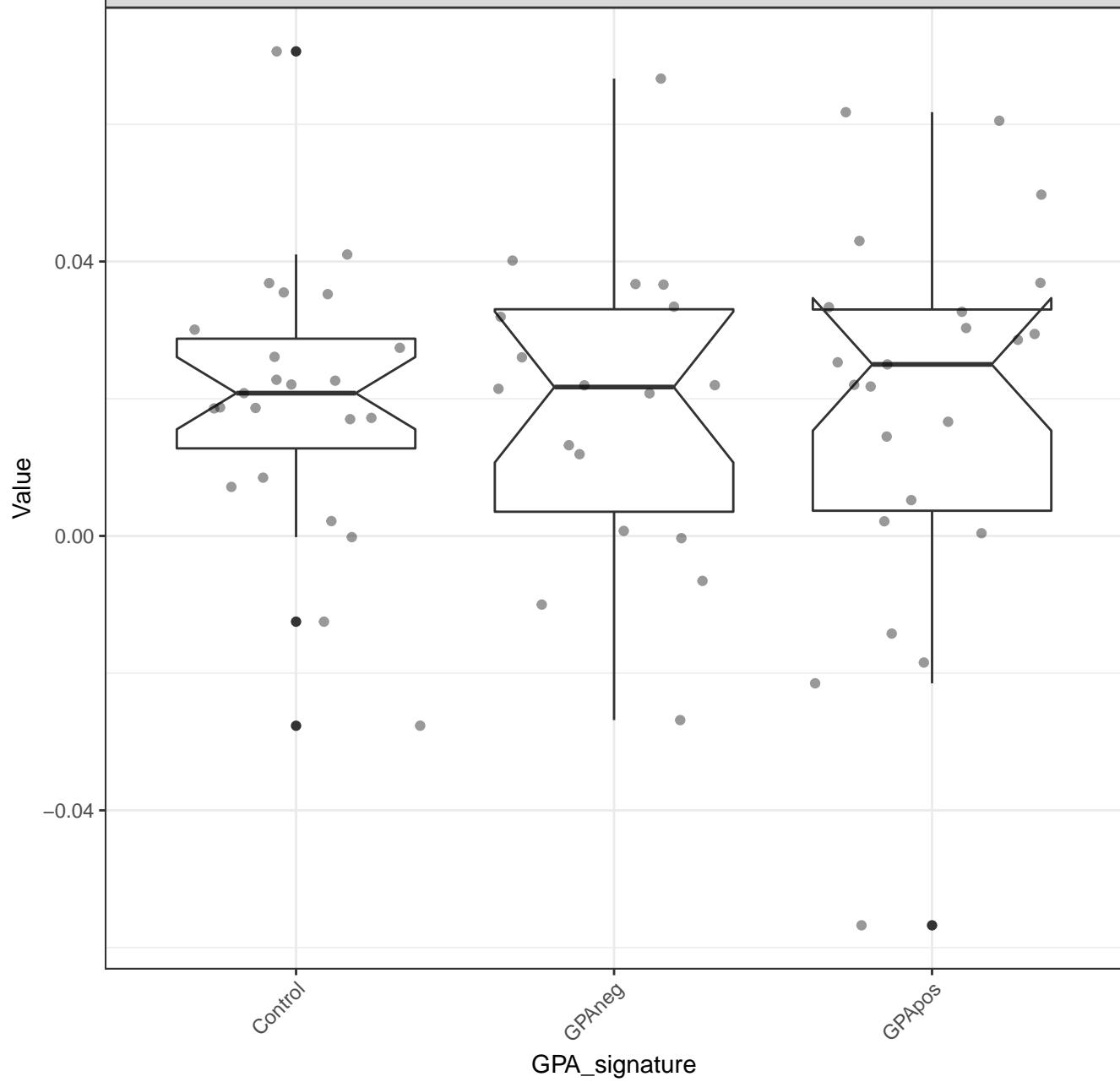
GPAneg

GPAPos

GPA\_signature



## LV 926



## LV 927

Value

0.050

0.025

0.000

-0.025

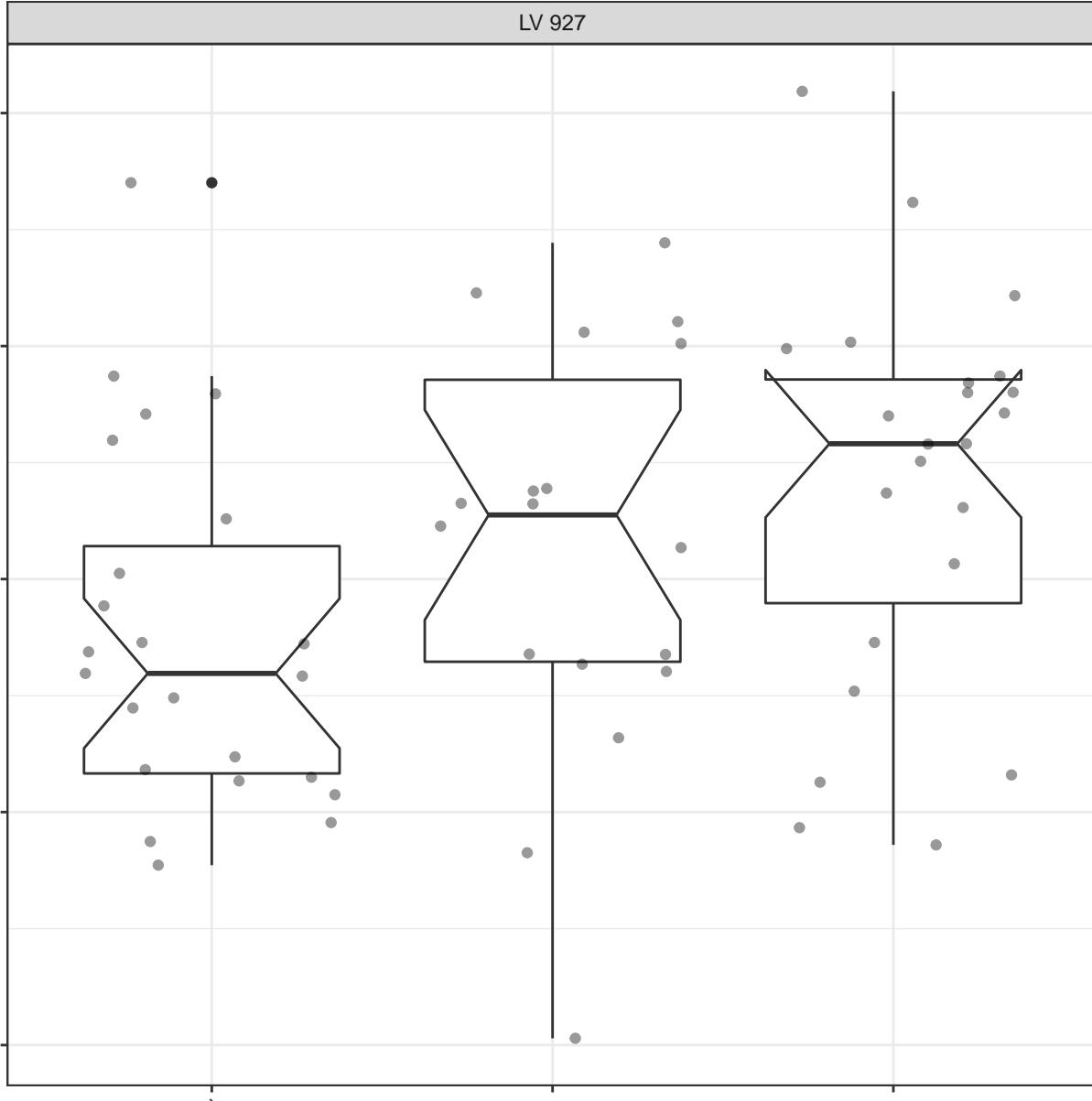
-0.050

Control

GPA\_signature

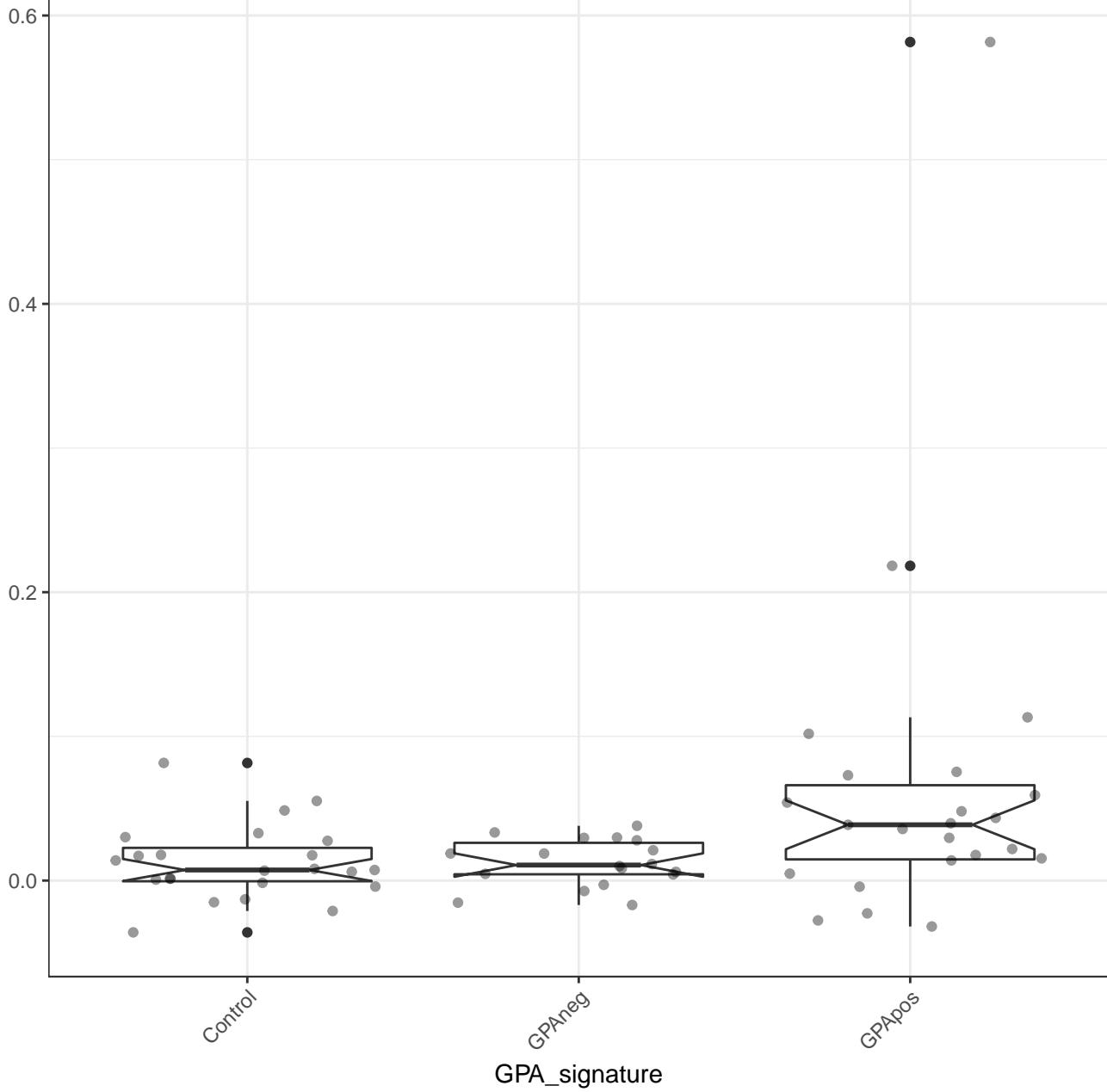
GPAneg

GPAPos

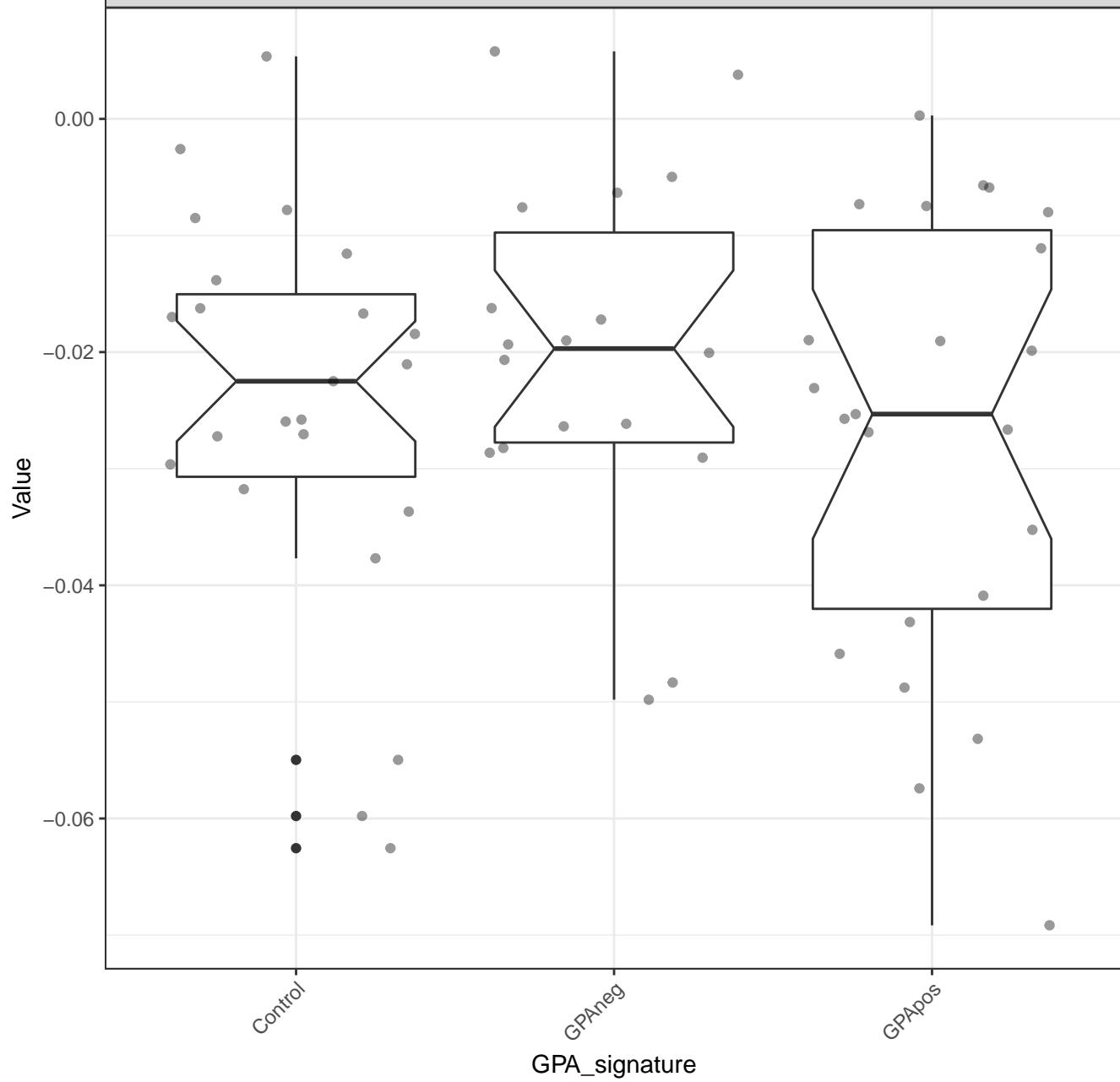


## 928,DMAP\_ERY3

Value



LV 929



## LV 930

Value

0.10

0.05

0.00

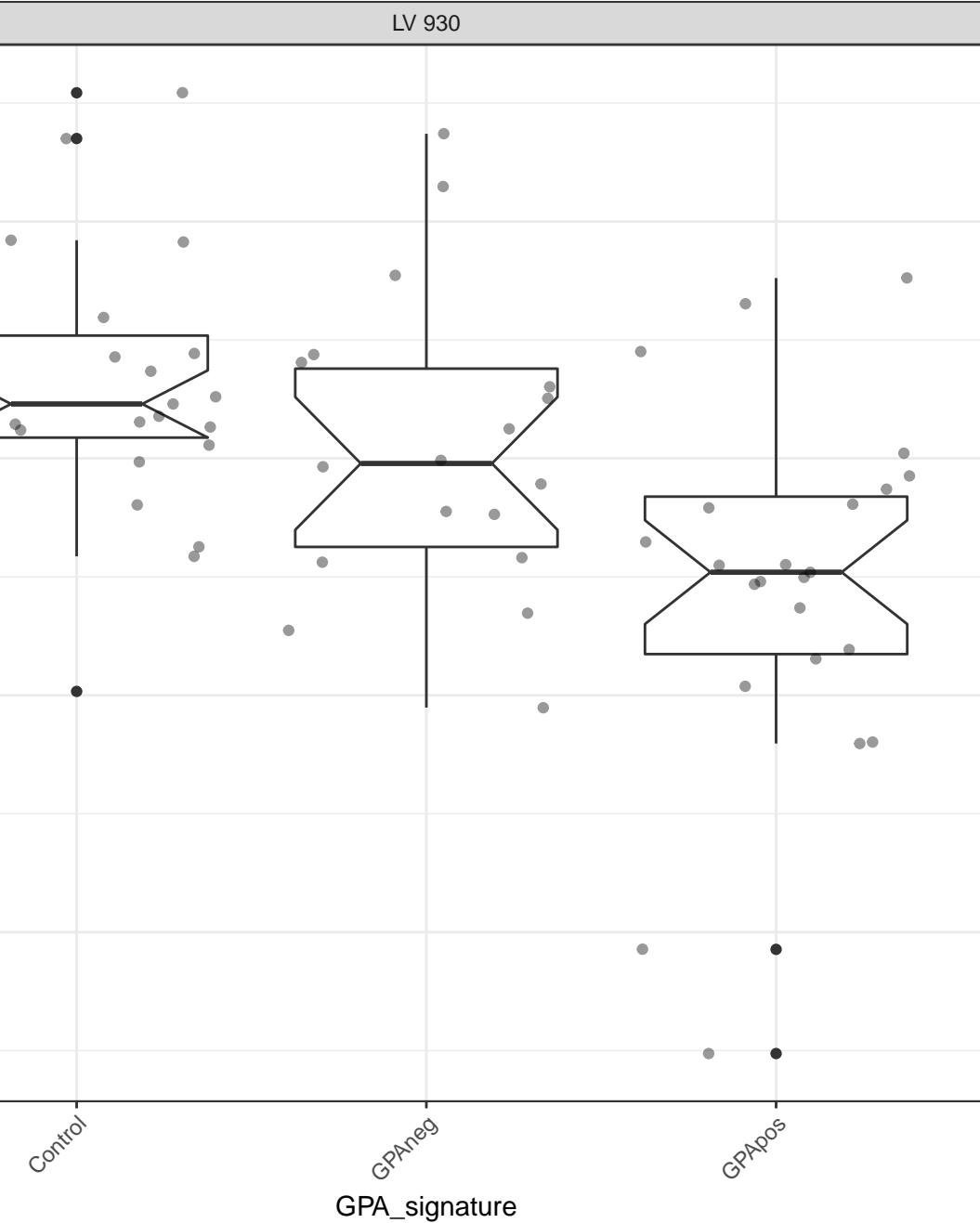
-0.05

Control

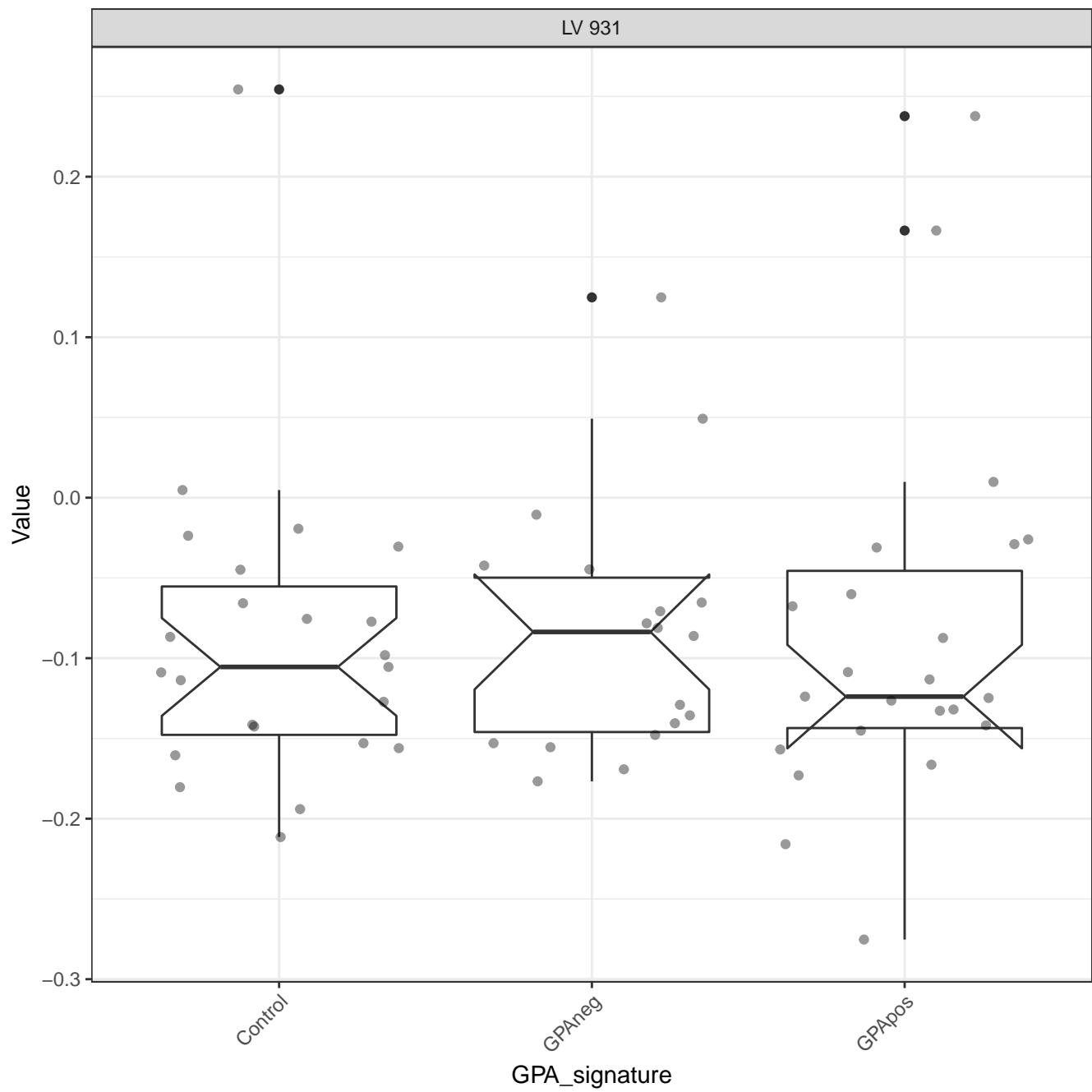
GPA\_signature

GPAneg

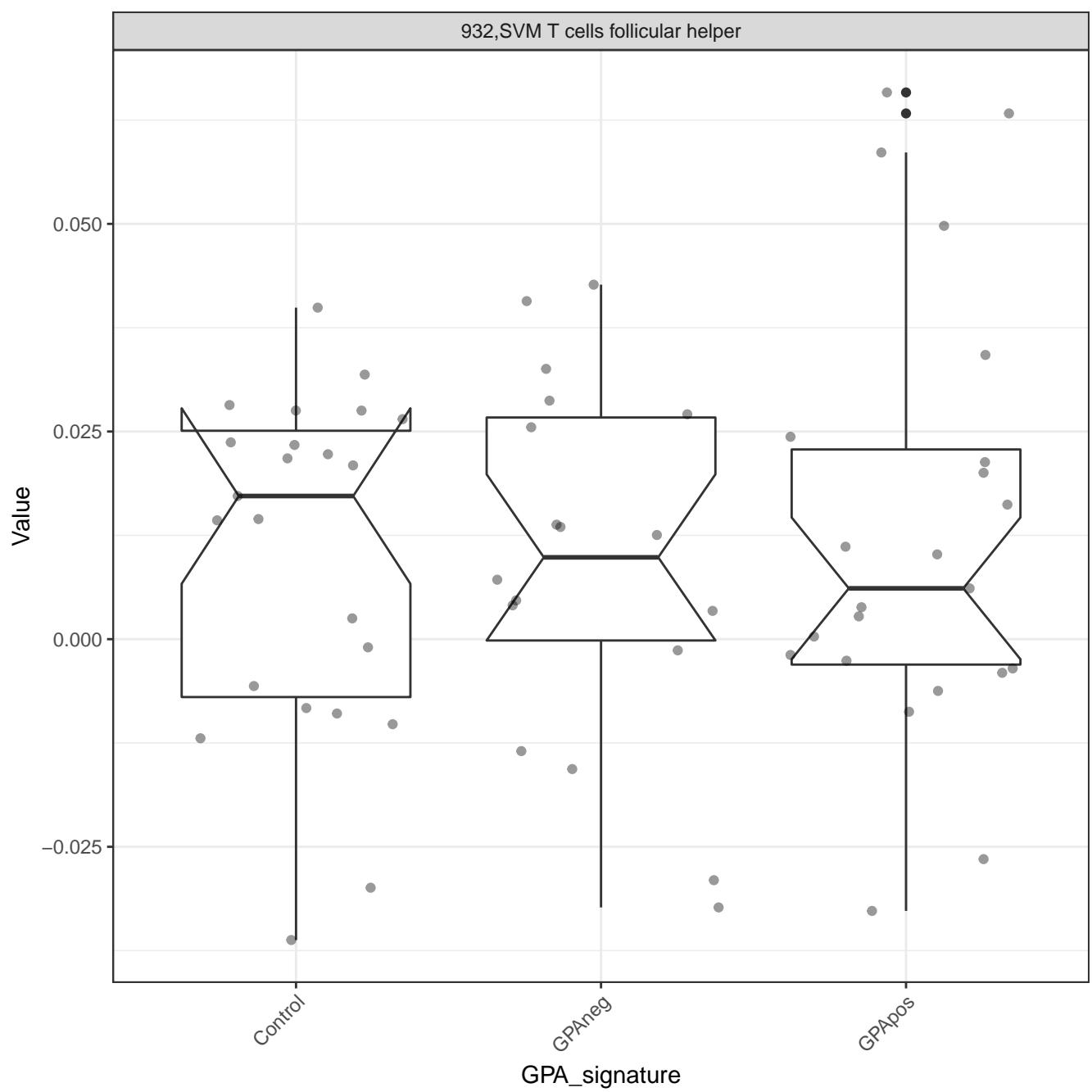
GPAPos



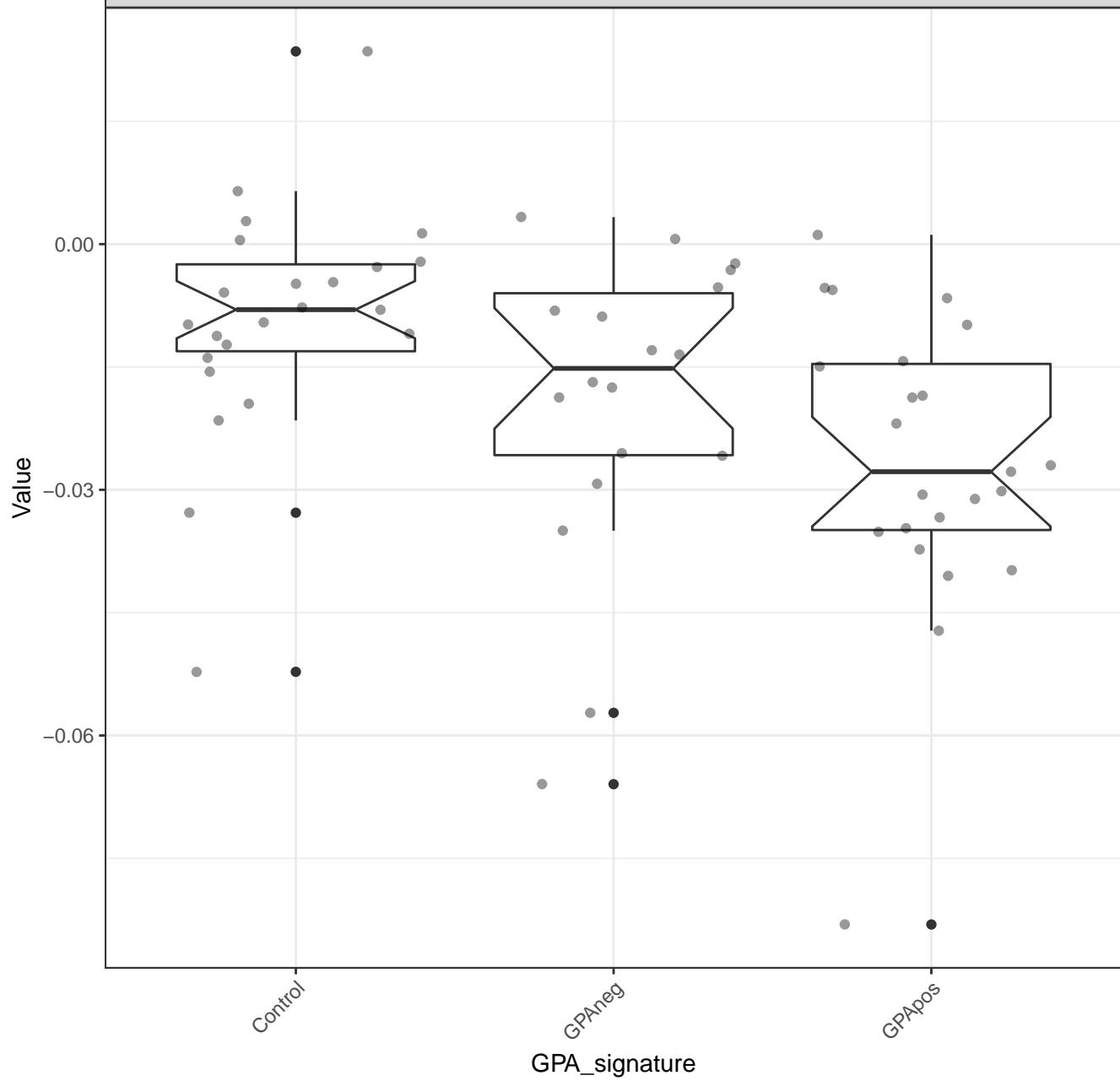
## LV 931



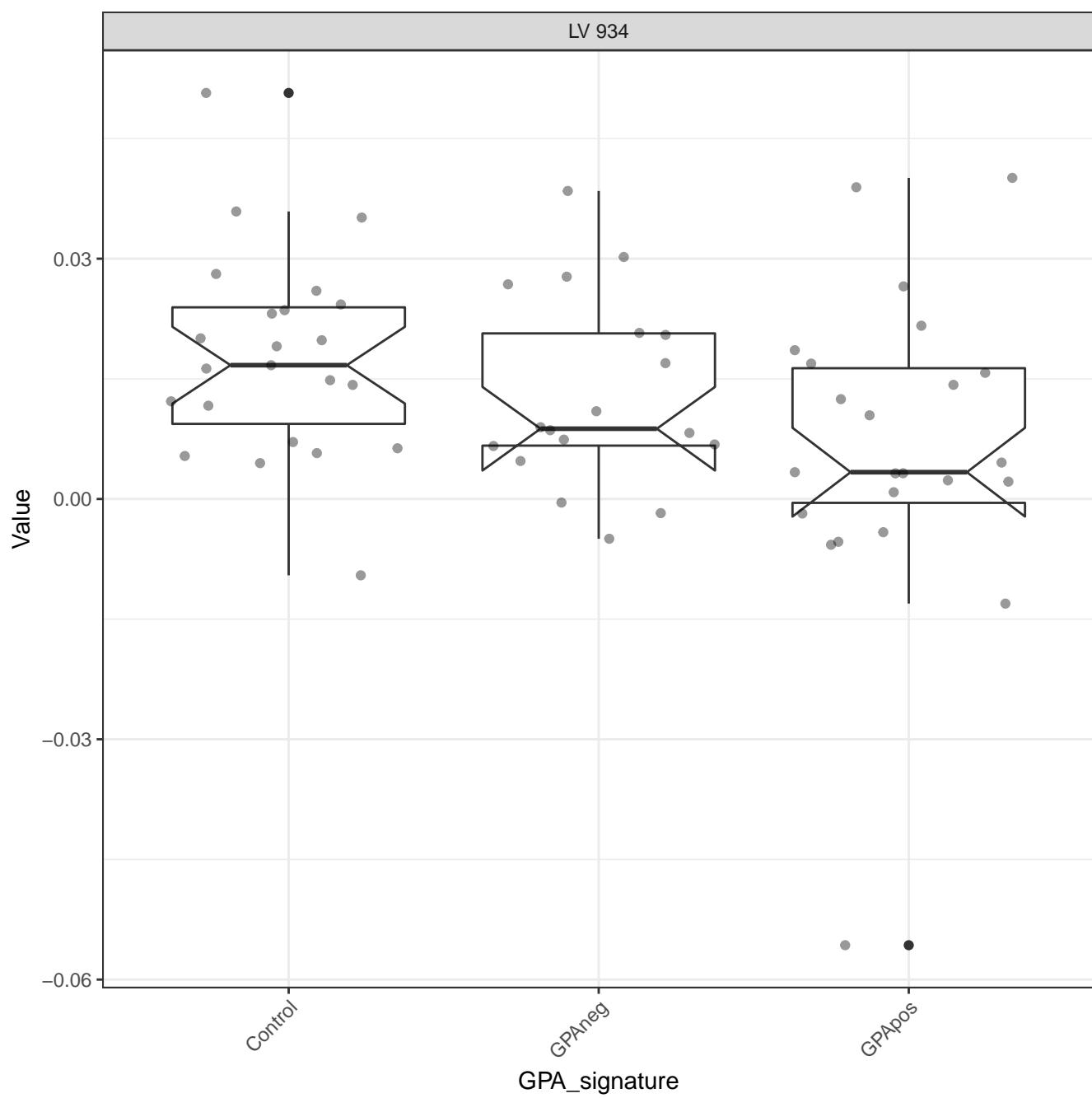
## 932,SVM T cells follicular helper



## LV 933



## LV 934



## 935,REACTOME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION

Value

0.04

0.02

0.00

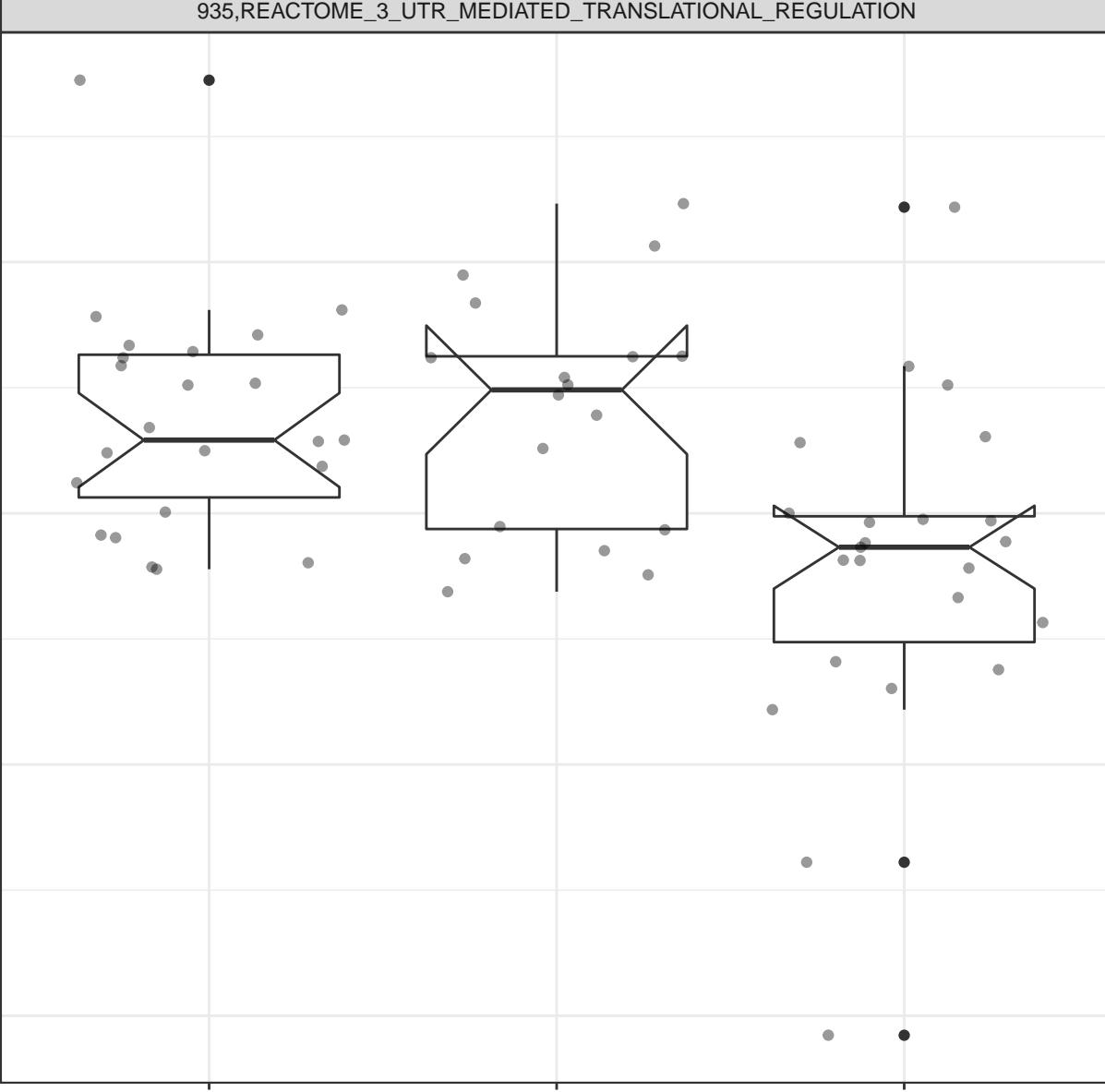
-0.02

Control

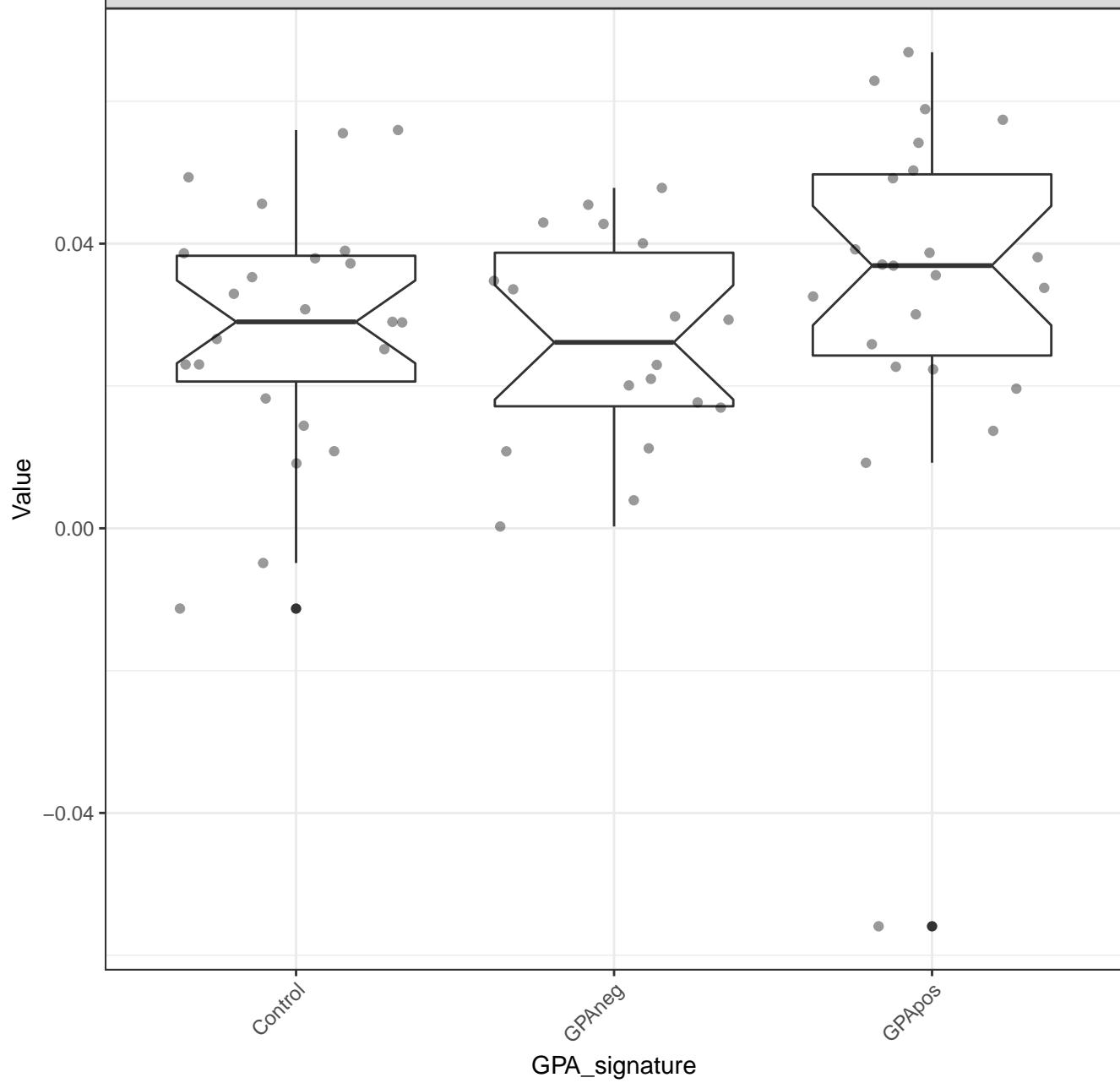
GPA\_signature

GPAneg

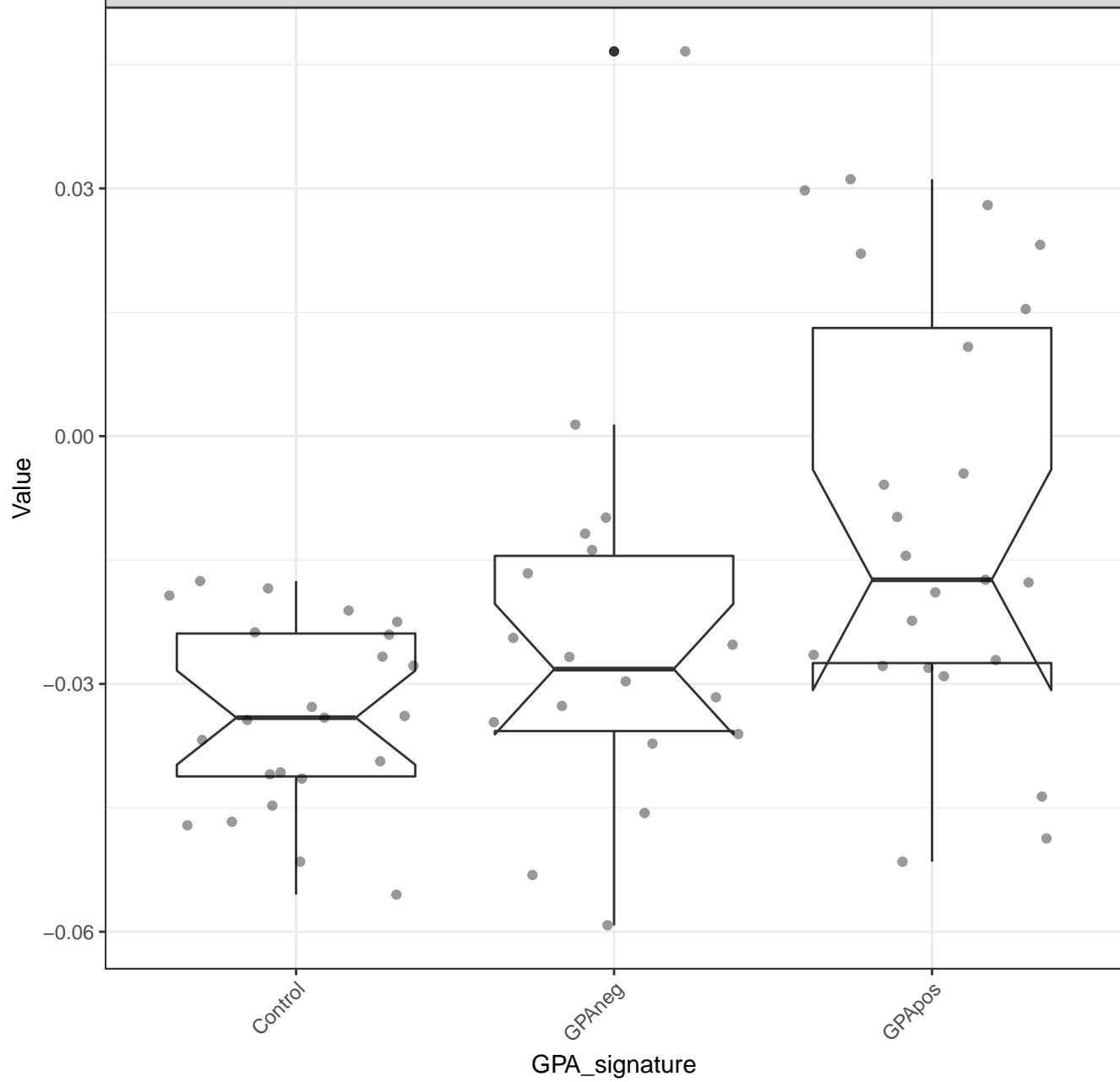
GPAPos



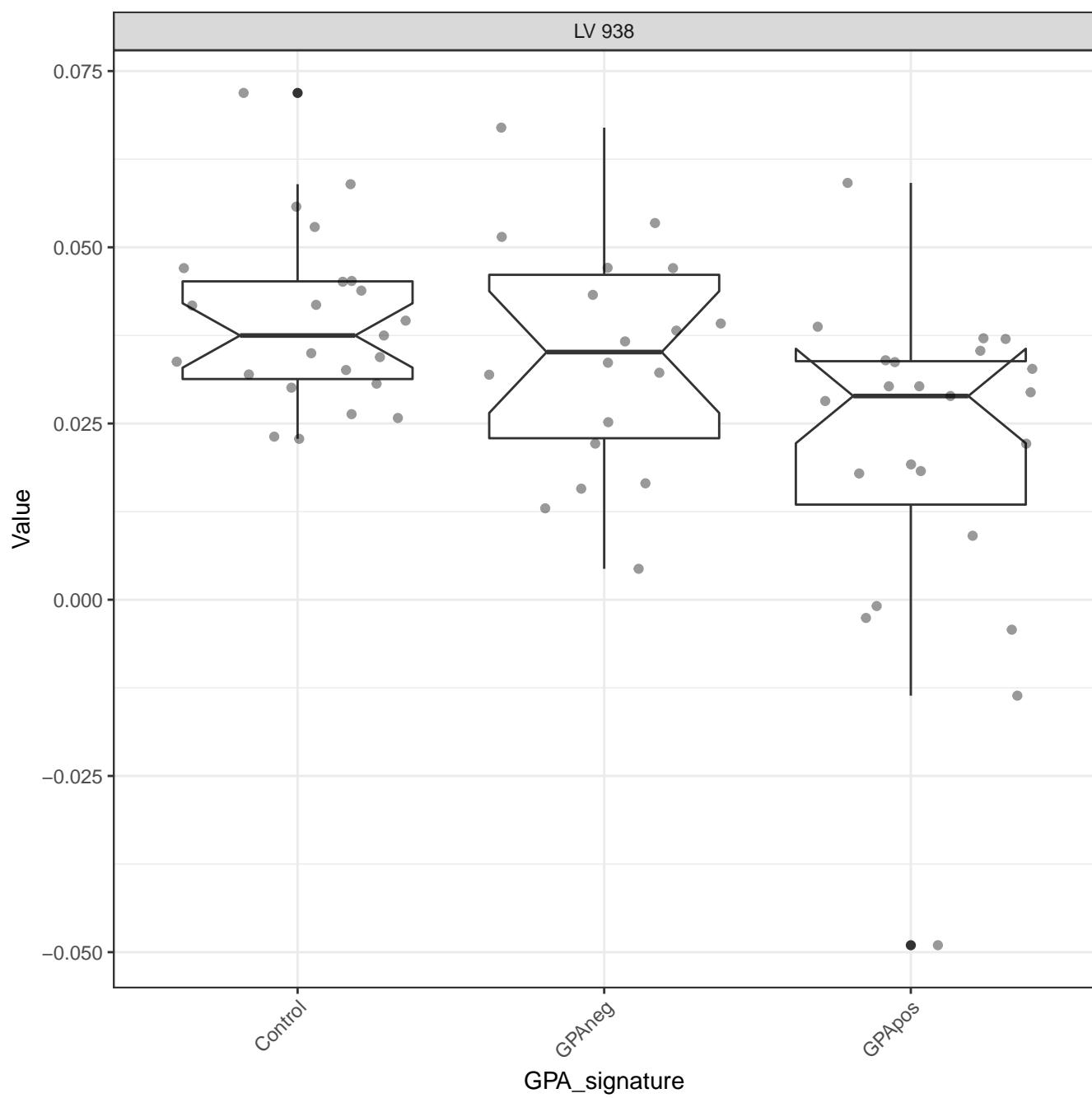
## LV 936



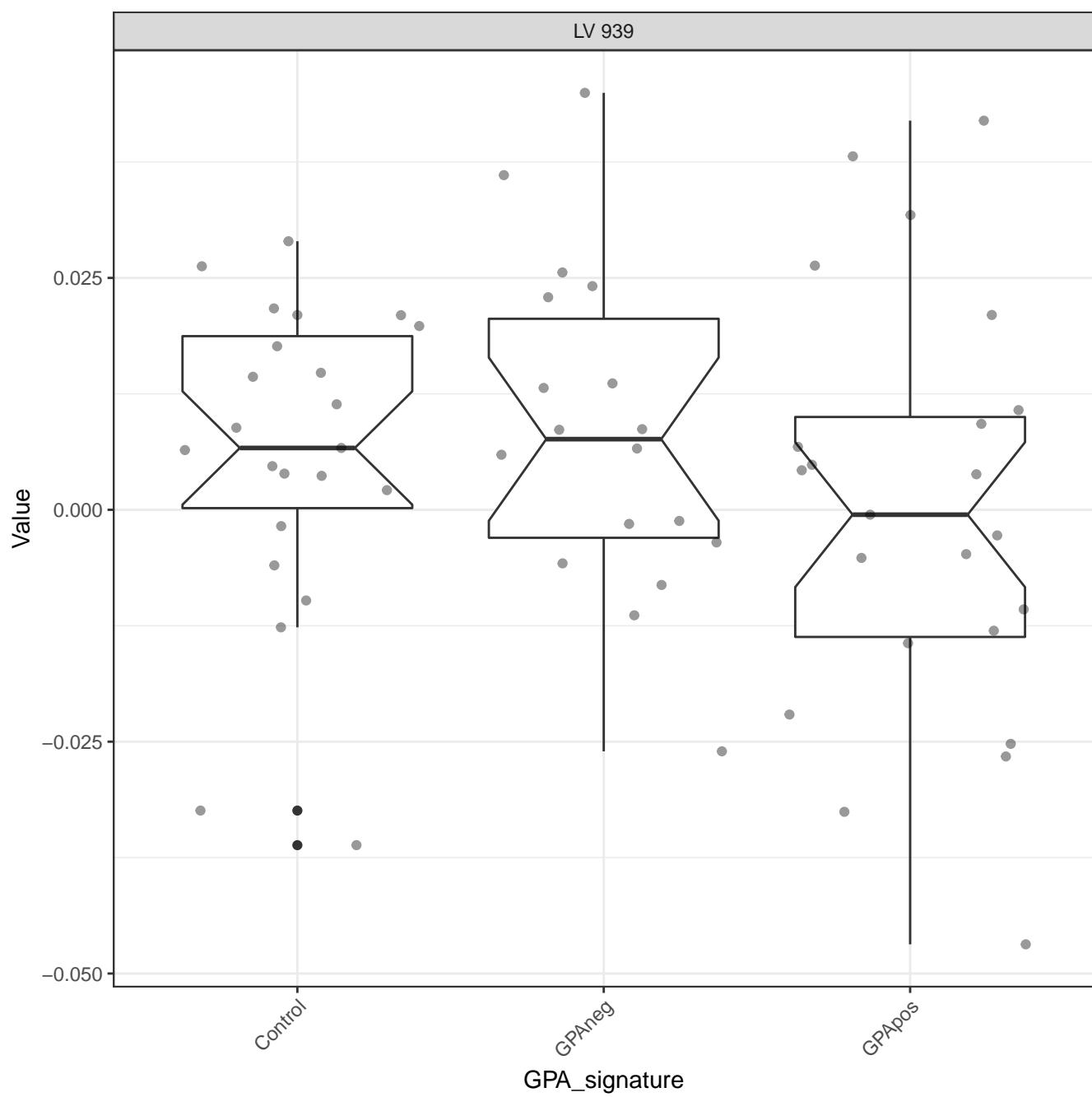
## 937,PID\_HIF1\_TFPATHWAY



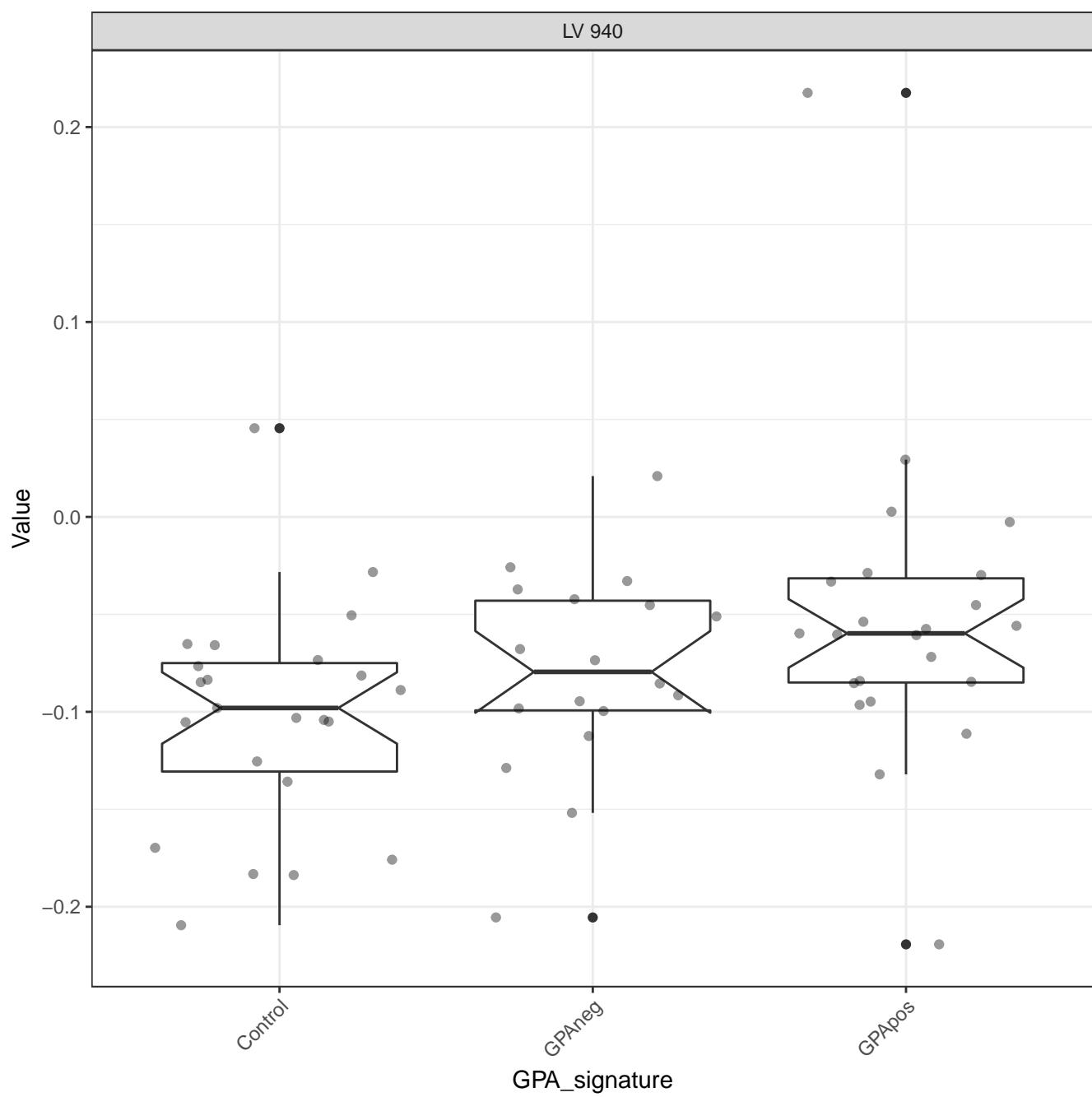
LV 938



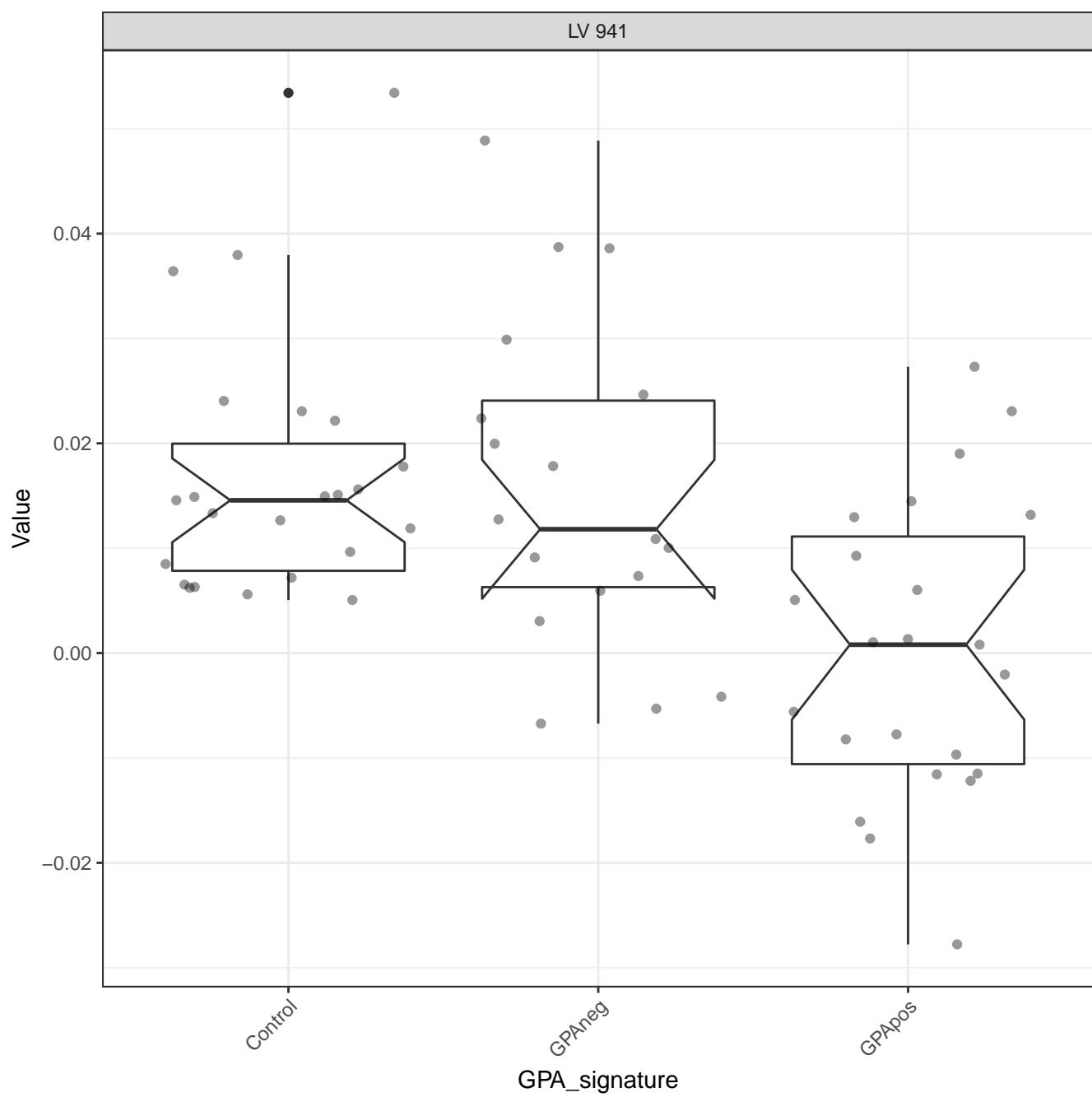
## LV 939



## LV 940

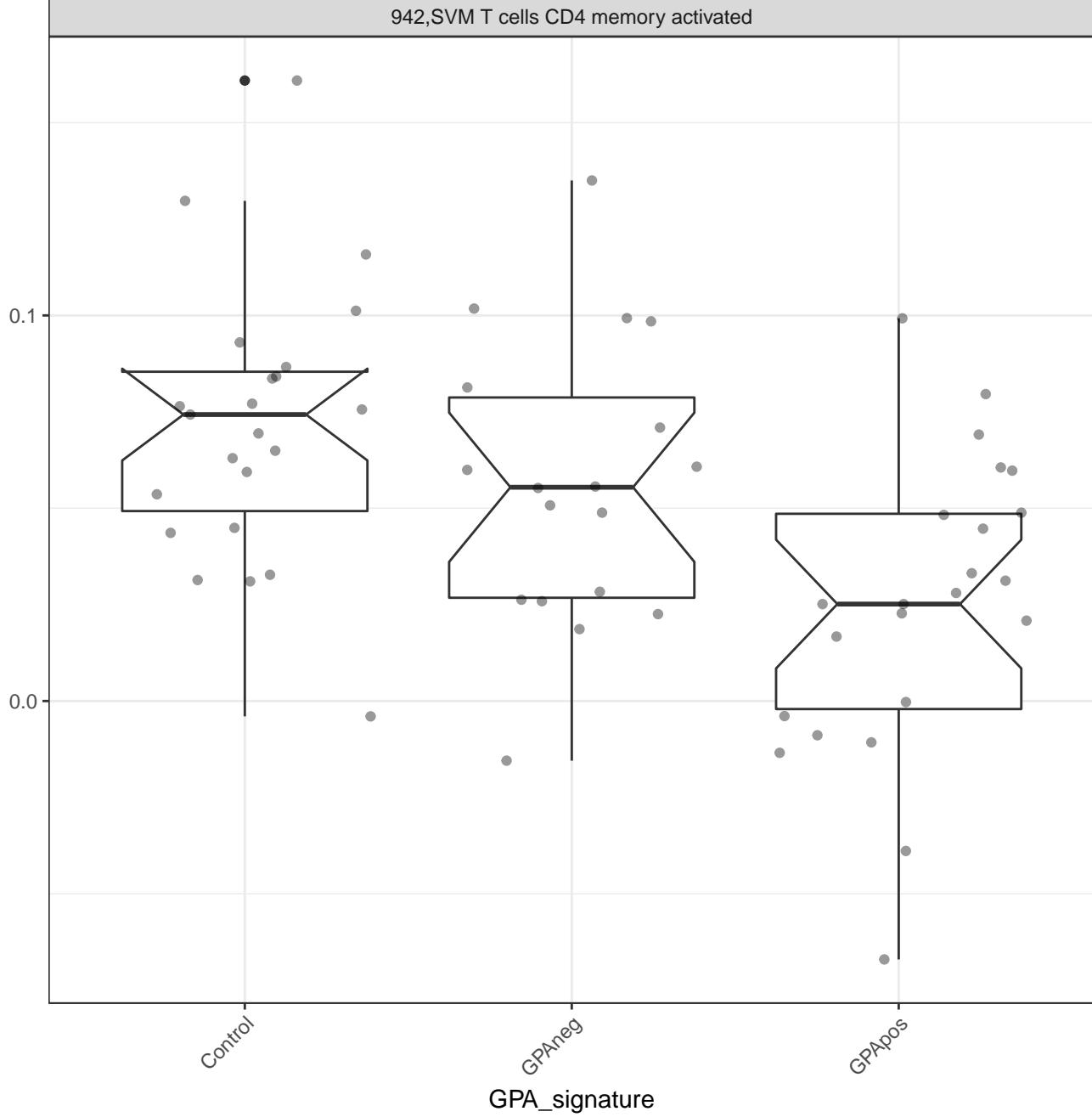


## LV 941

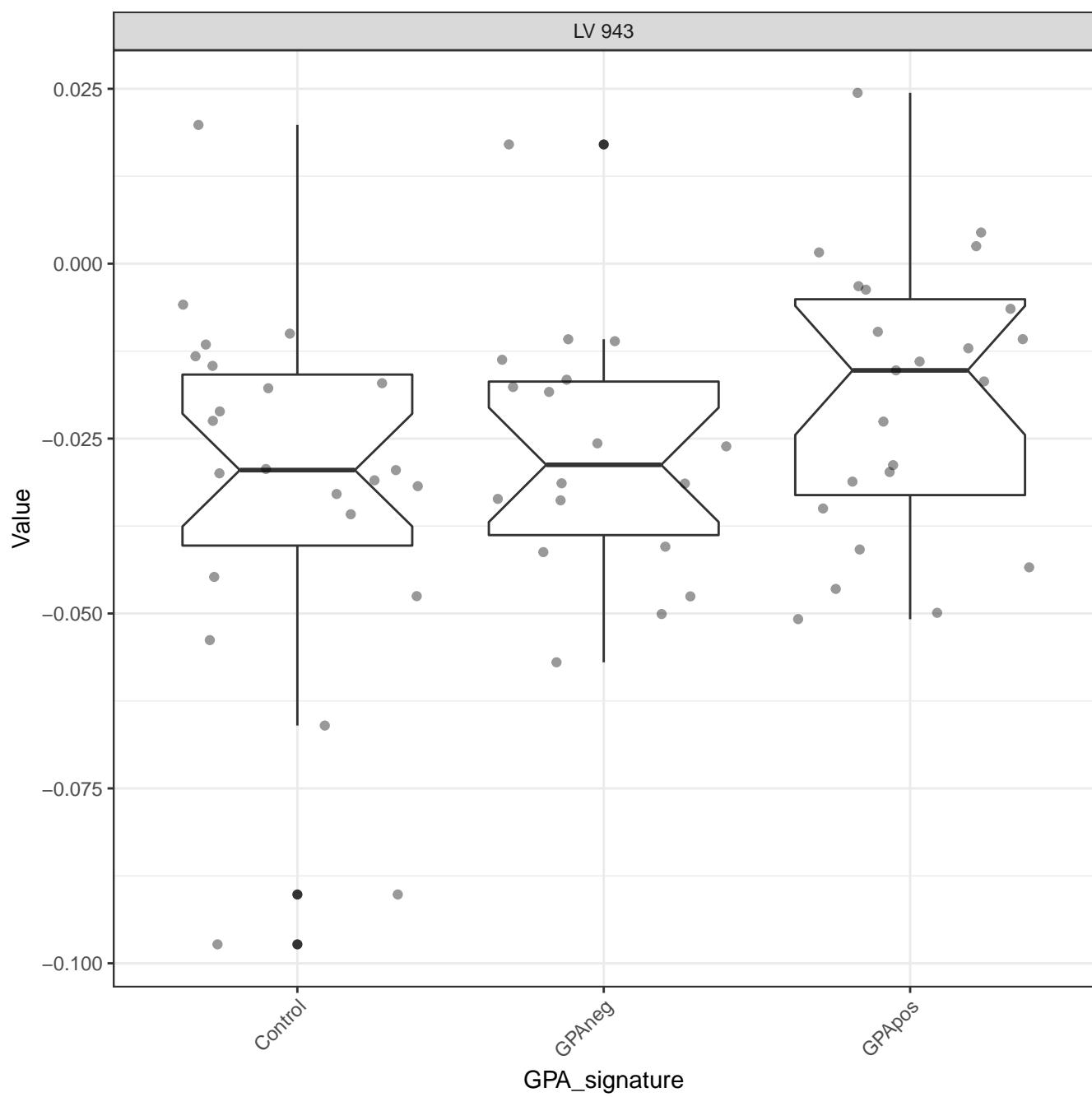


942,SVM T cells CD4 memory activated

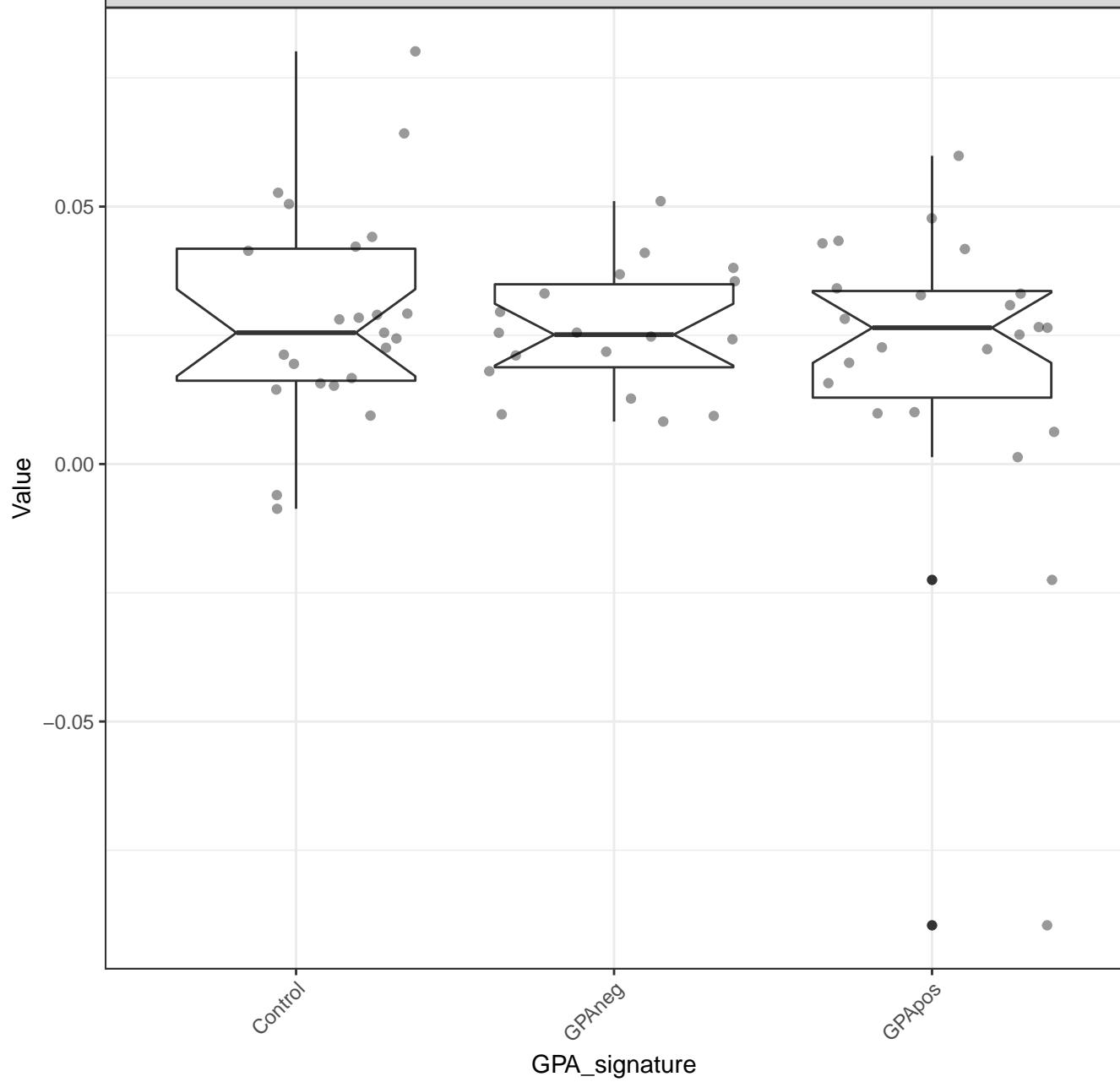
Value



LV 943



## LV 944



## LV 945

Value

0.04

0.02

0.00

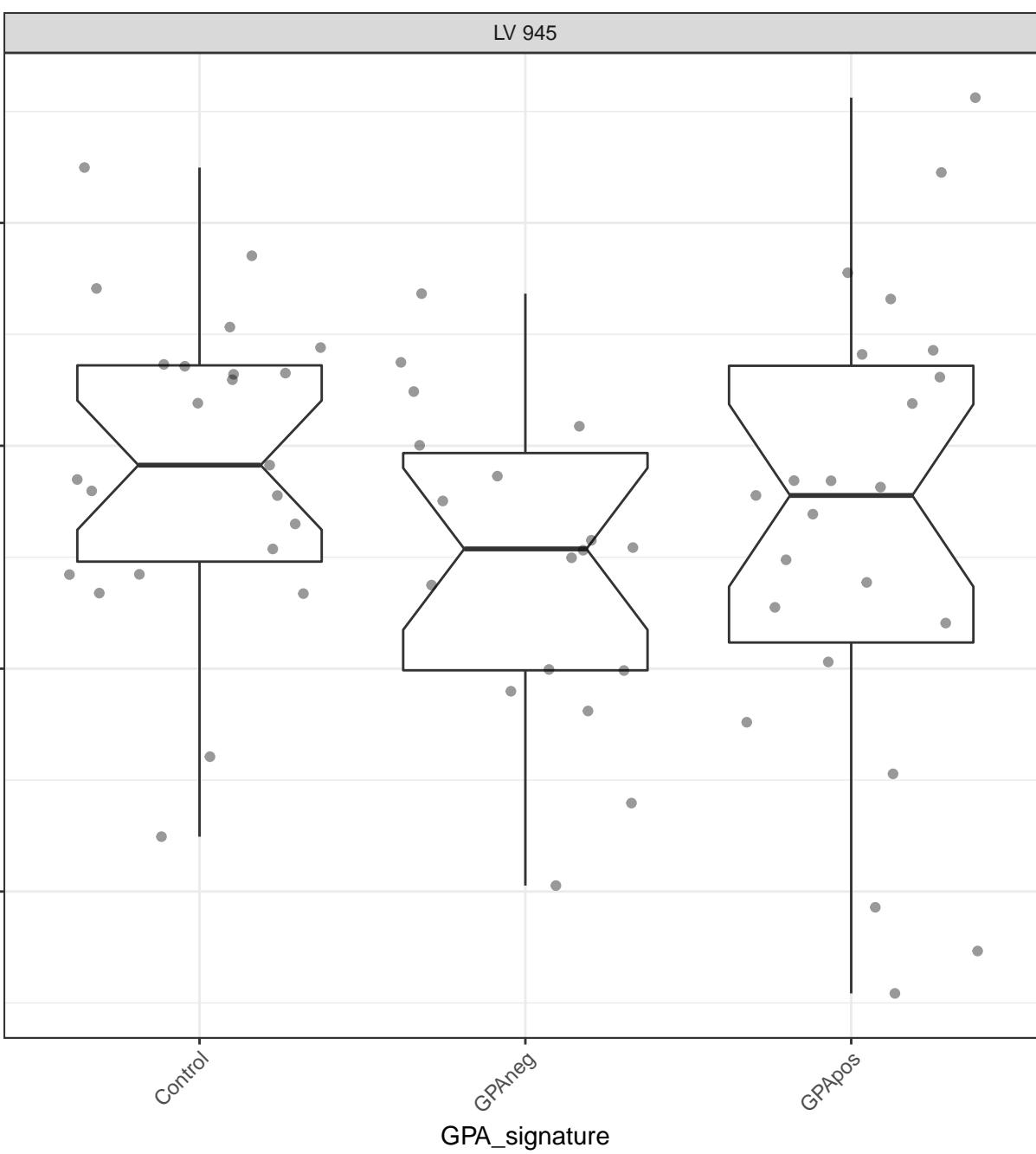
-0.02

Control

GPAneg

GPApos

GPA\_signature



## LV 946

Value

0.05

0.00

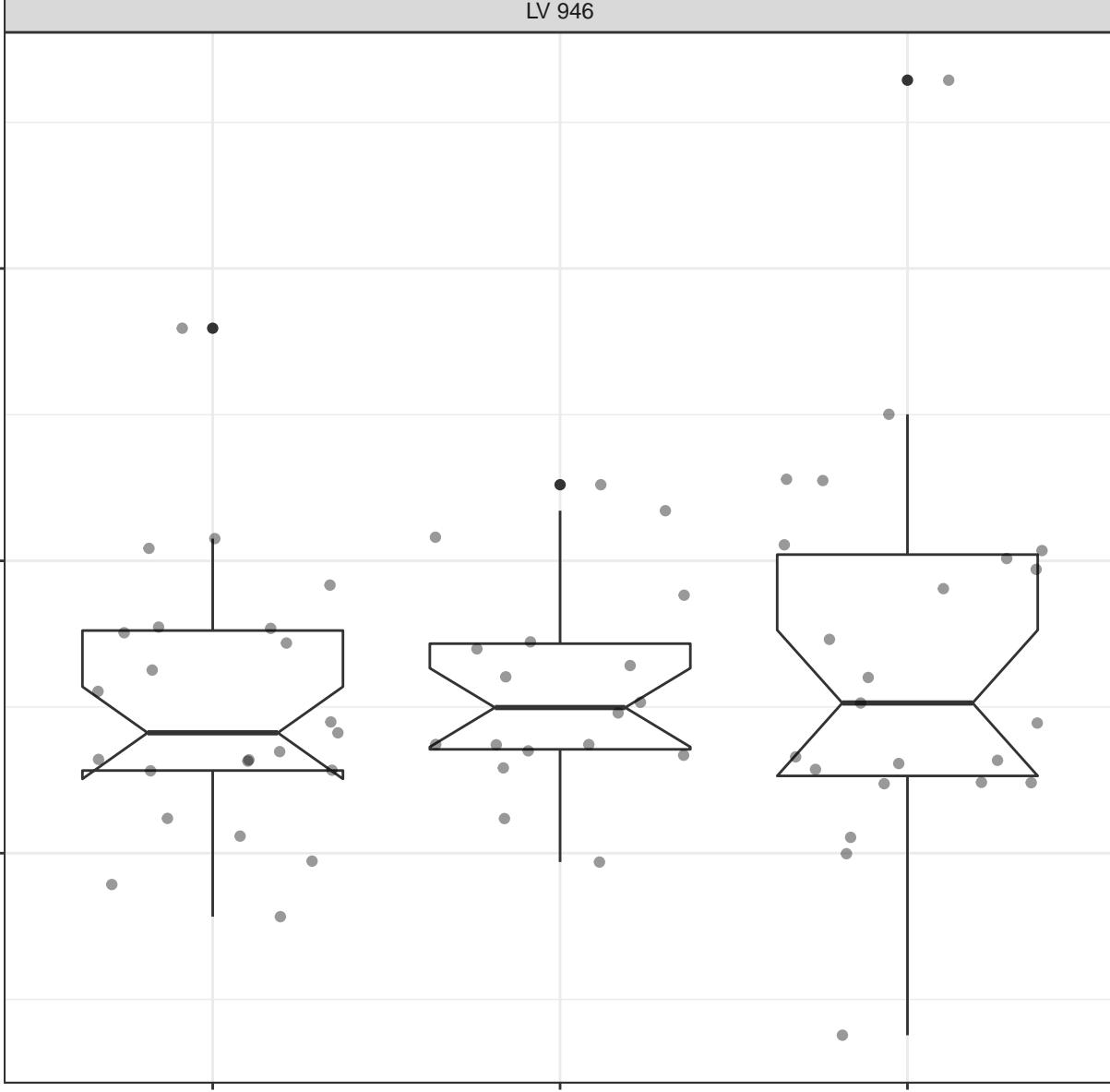
-0.05

Control

GPAneg

GPApos

GPA\_signature



Value

0.05

0.00

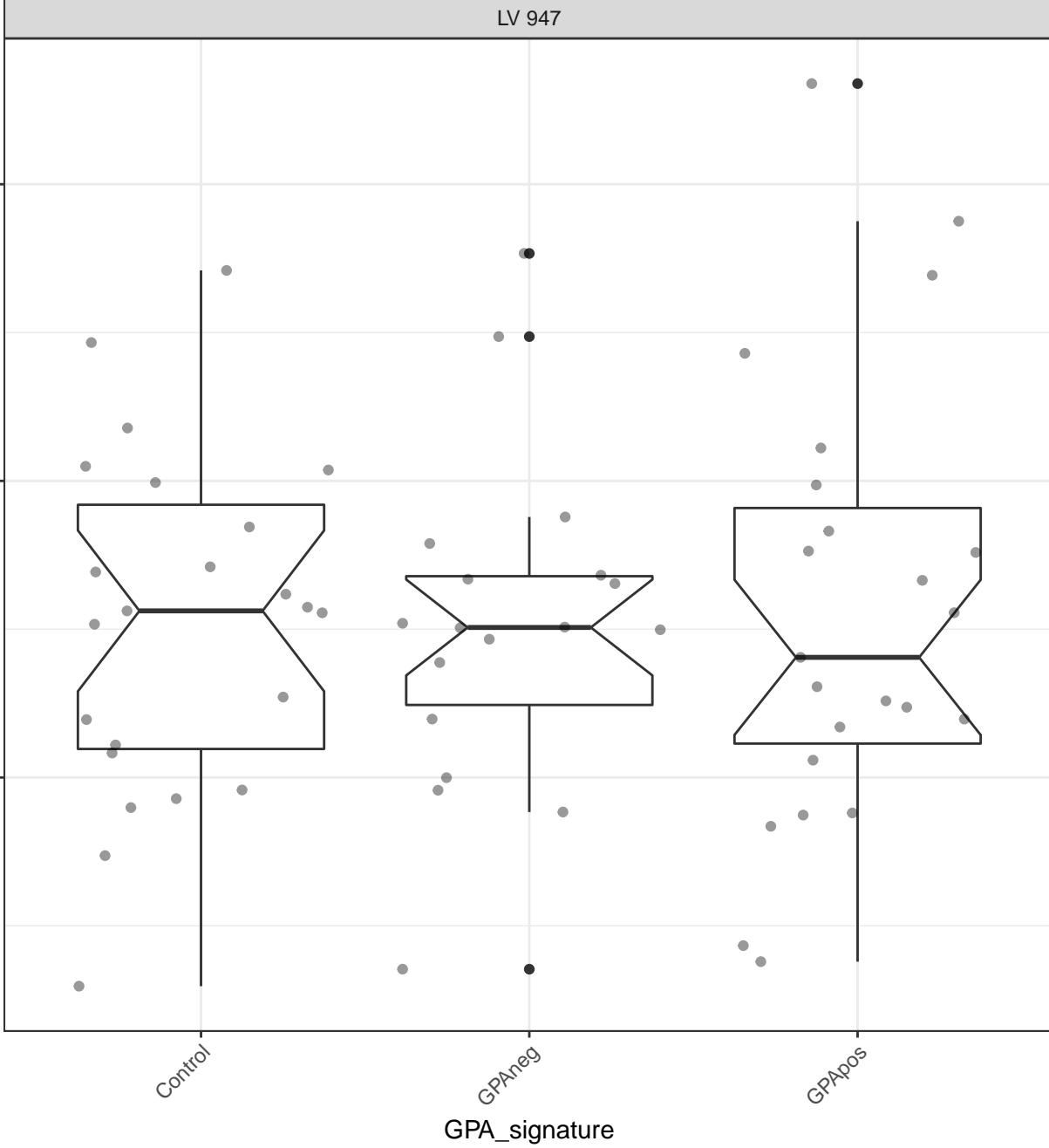
-0.05

Control

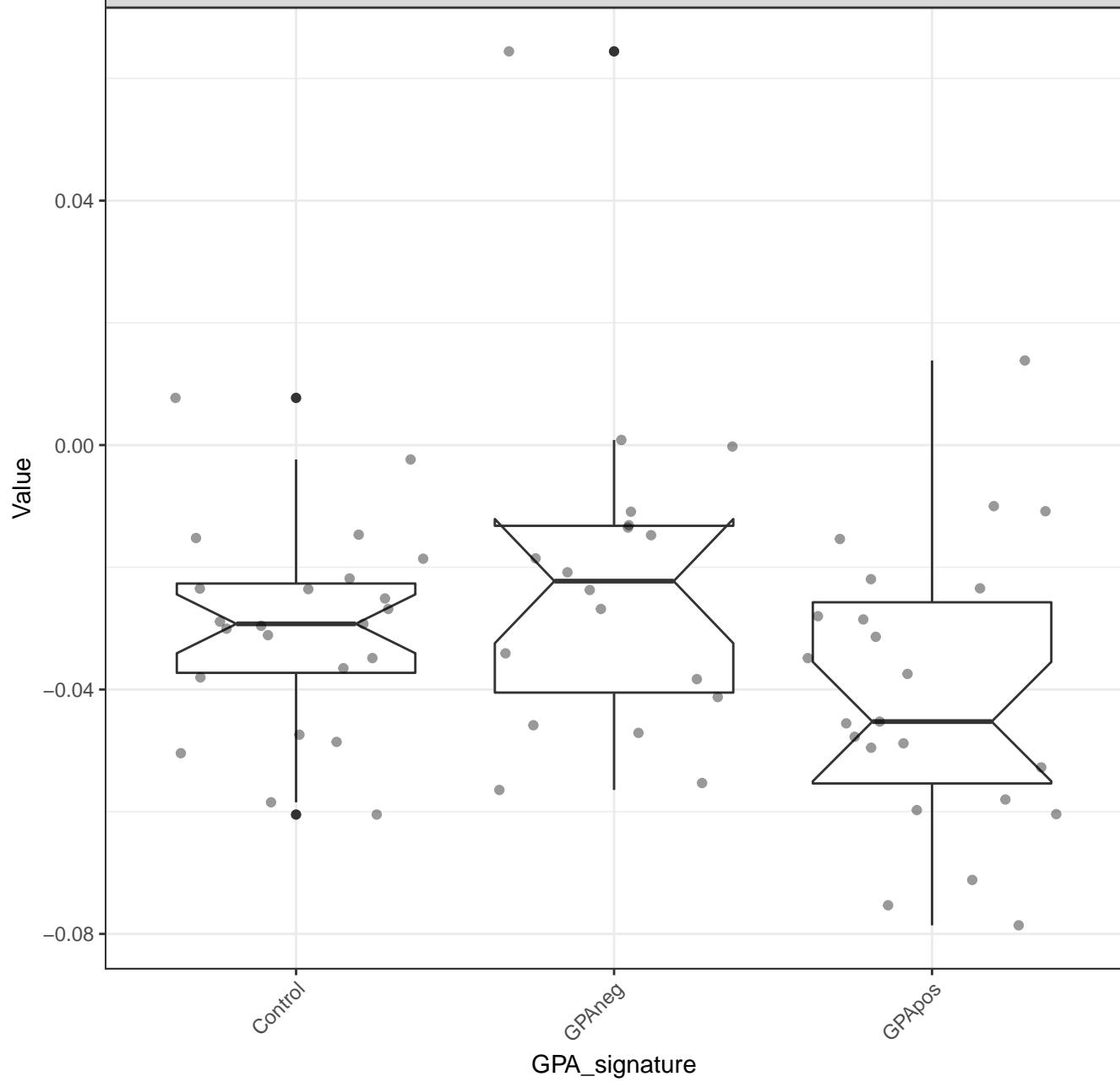
GPA\_signature

GPAneg

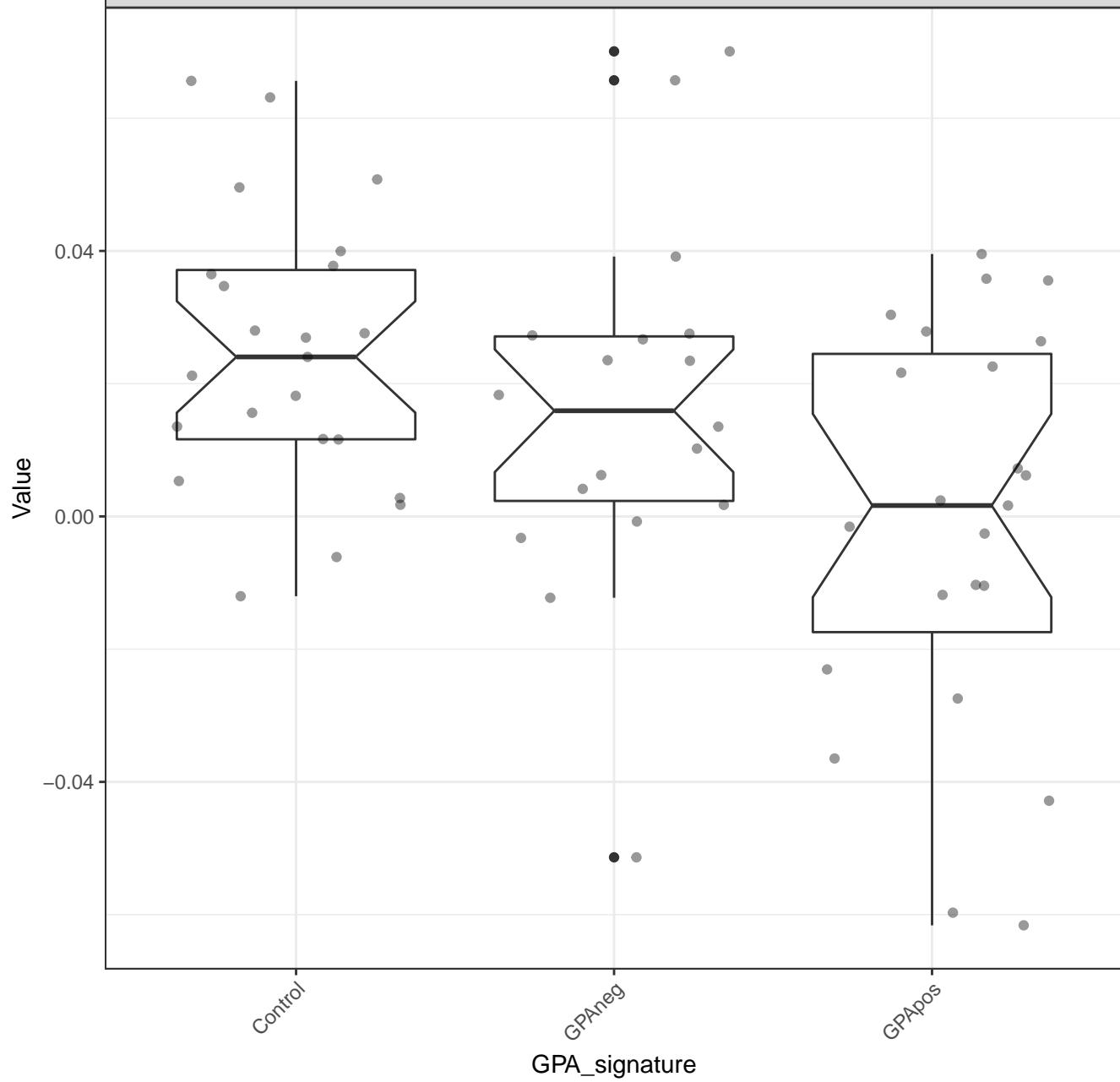
GPApos



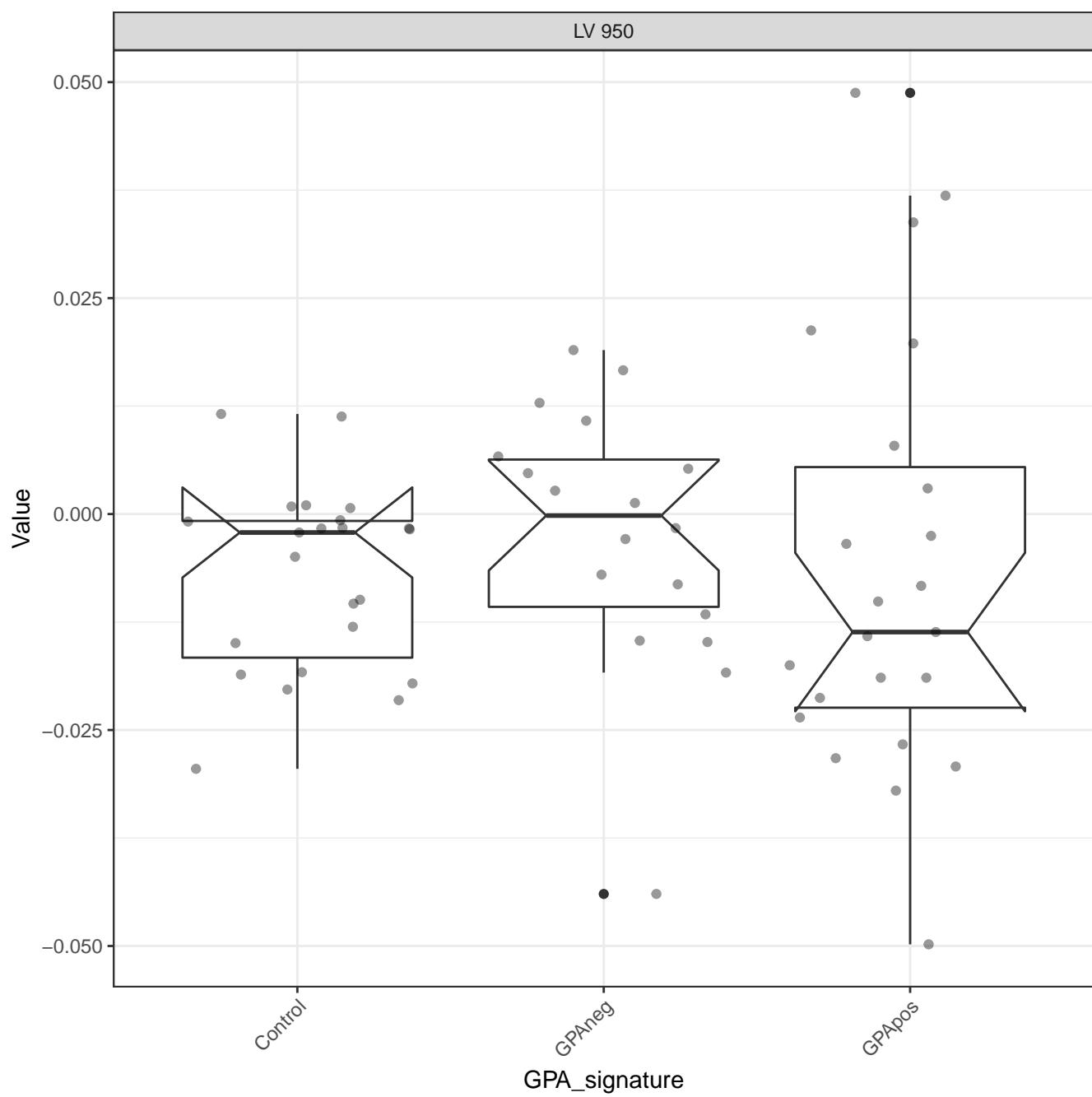
LV 948



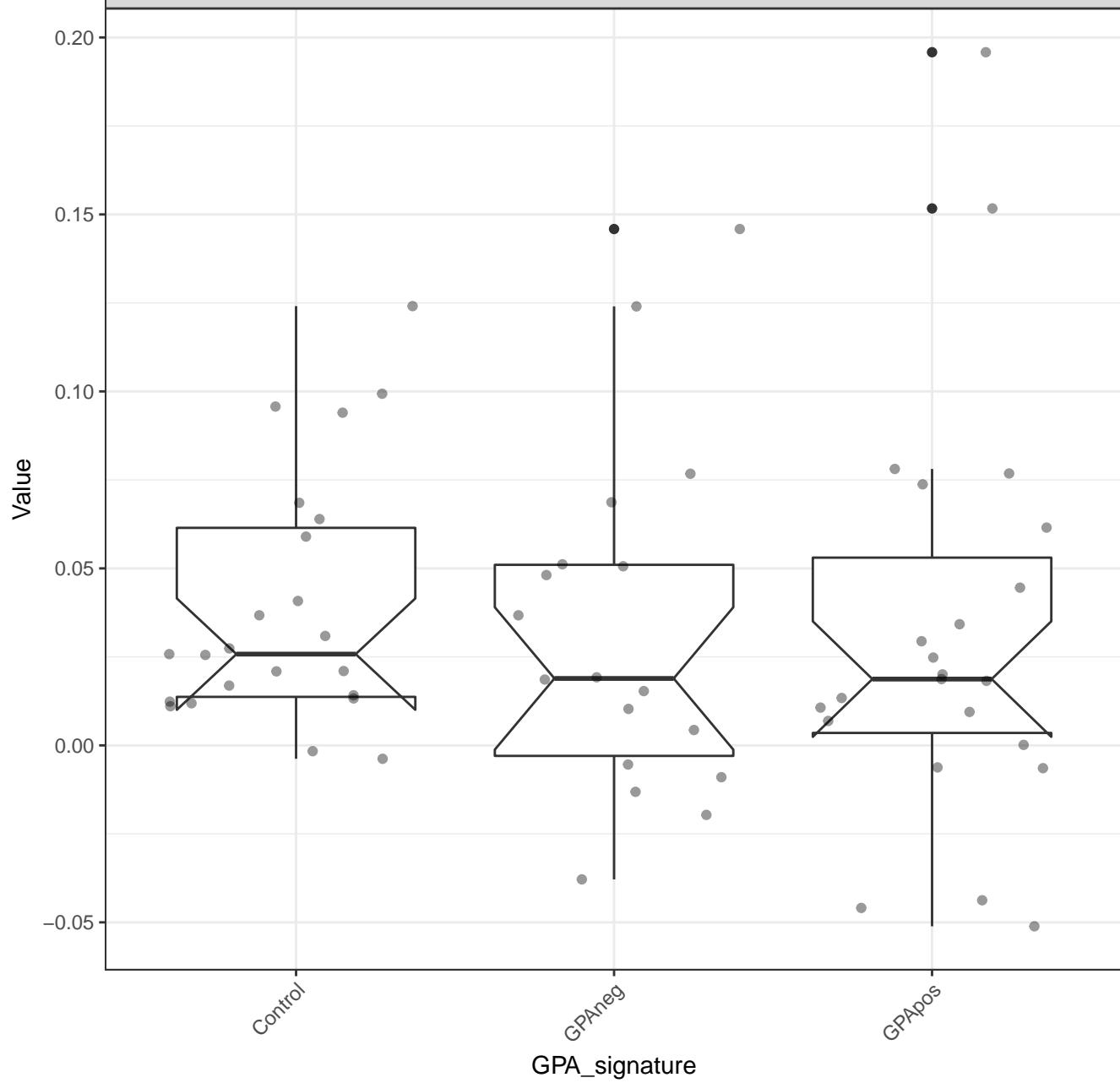
## LV 949



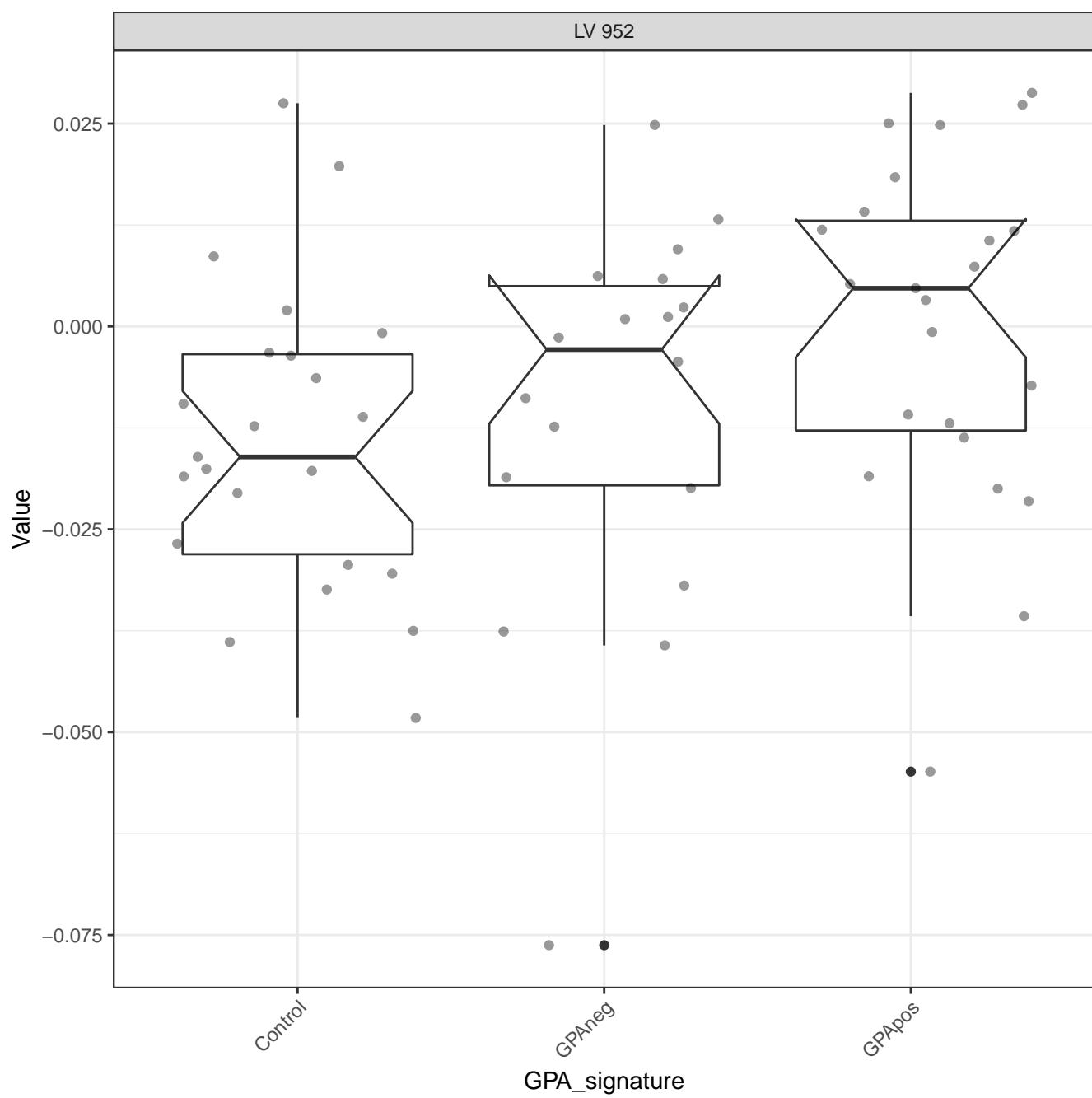
LV 950

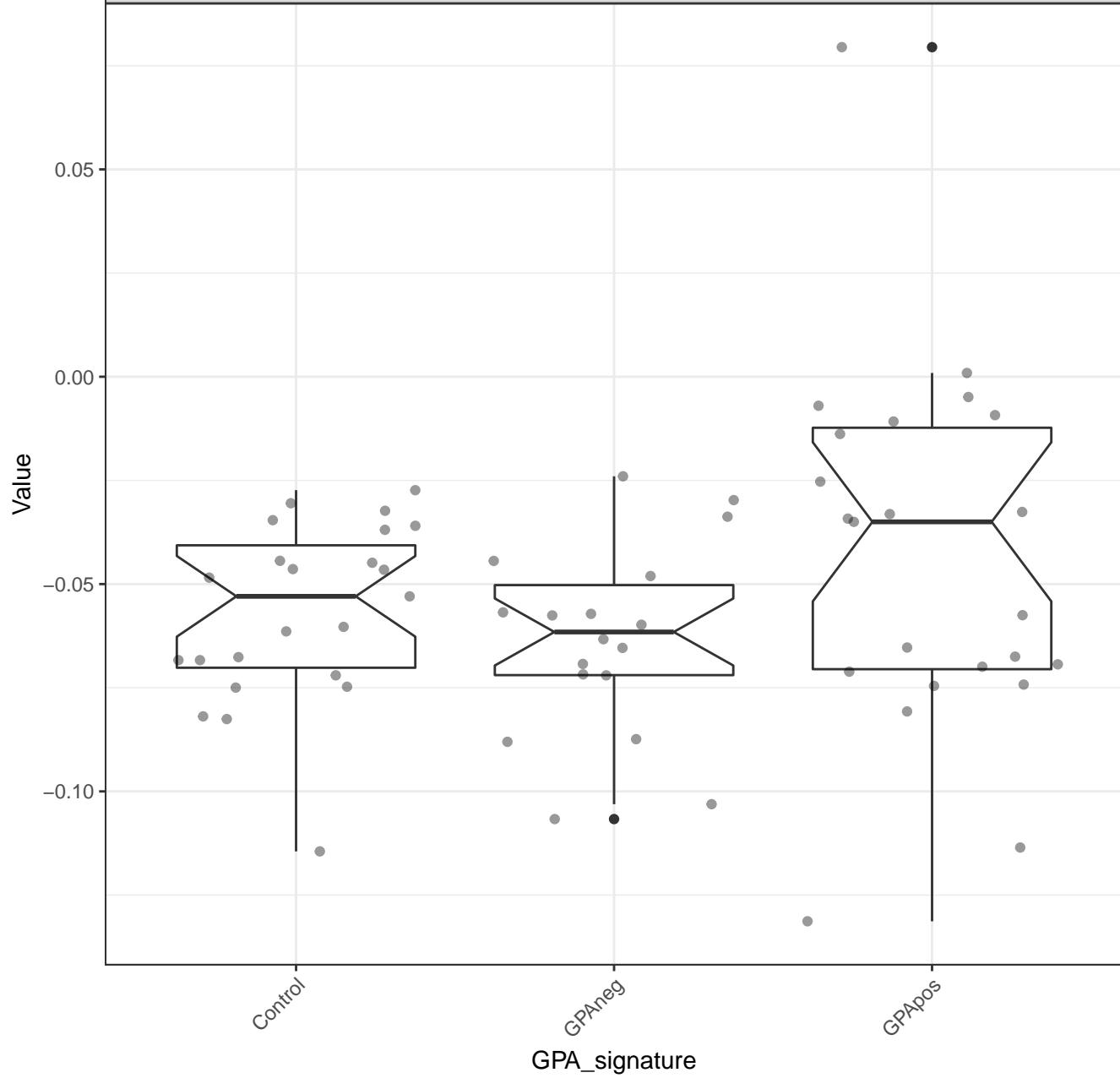


## 951,SVM Plasma cells



## LV 952





## 954,DMAP\_TCELLA6

Value

0.2

0.1

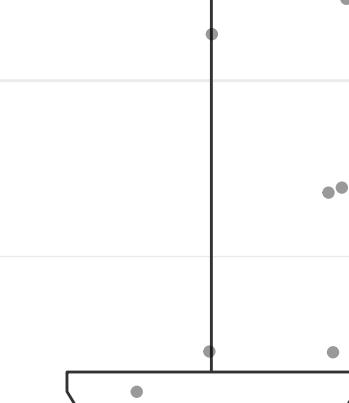
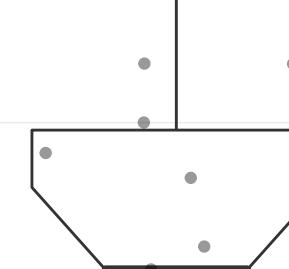
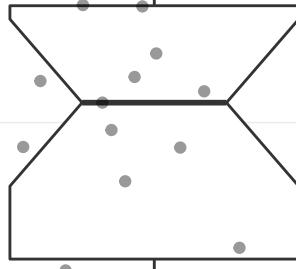
0.0

Control

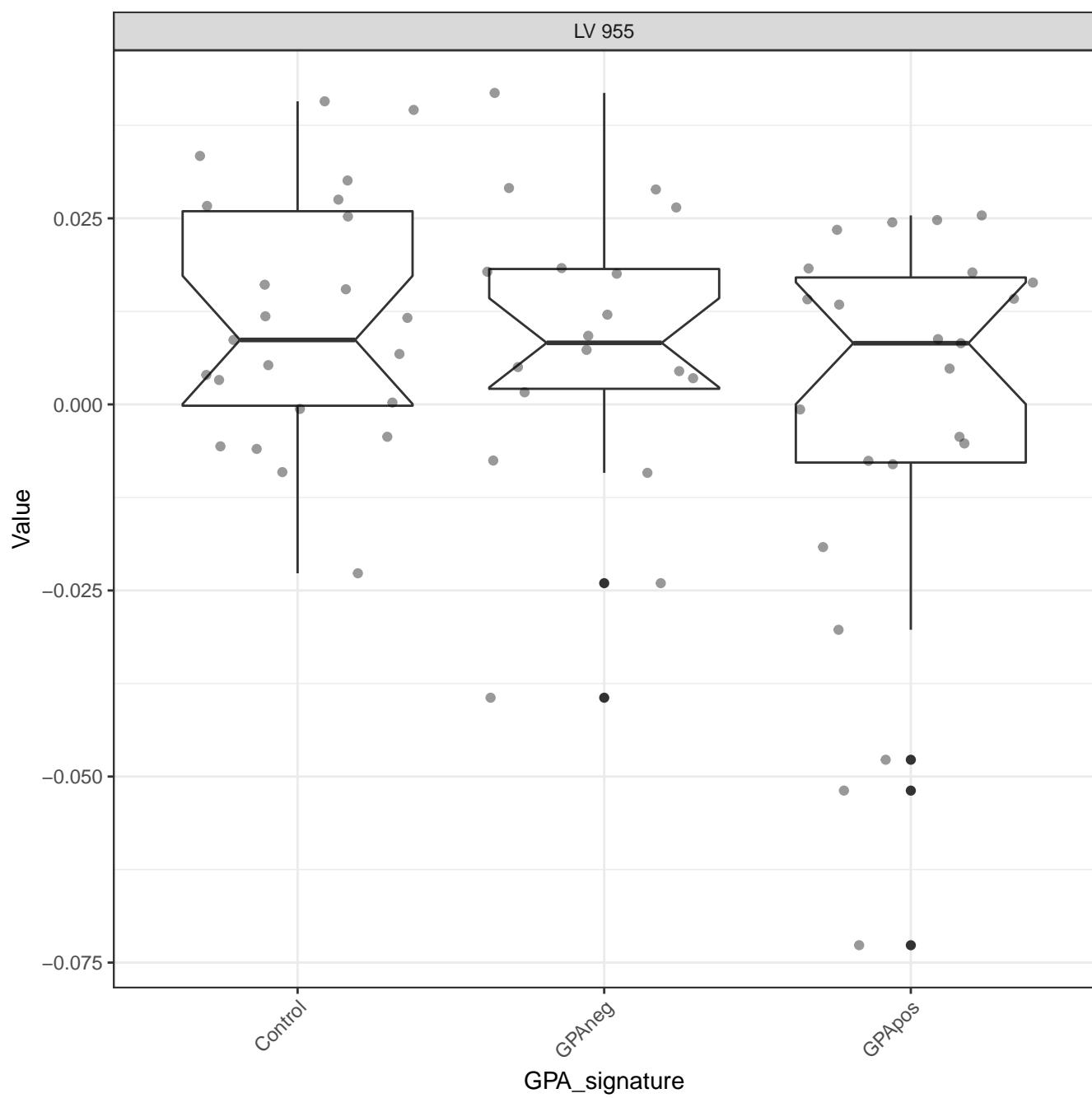
GPAneg

GPAPos

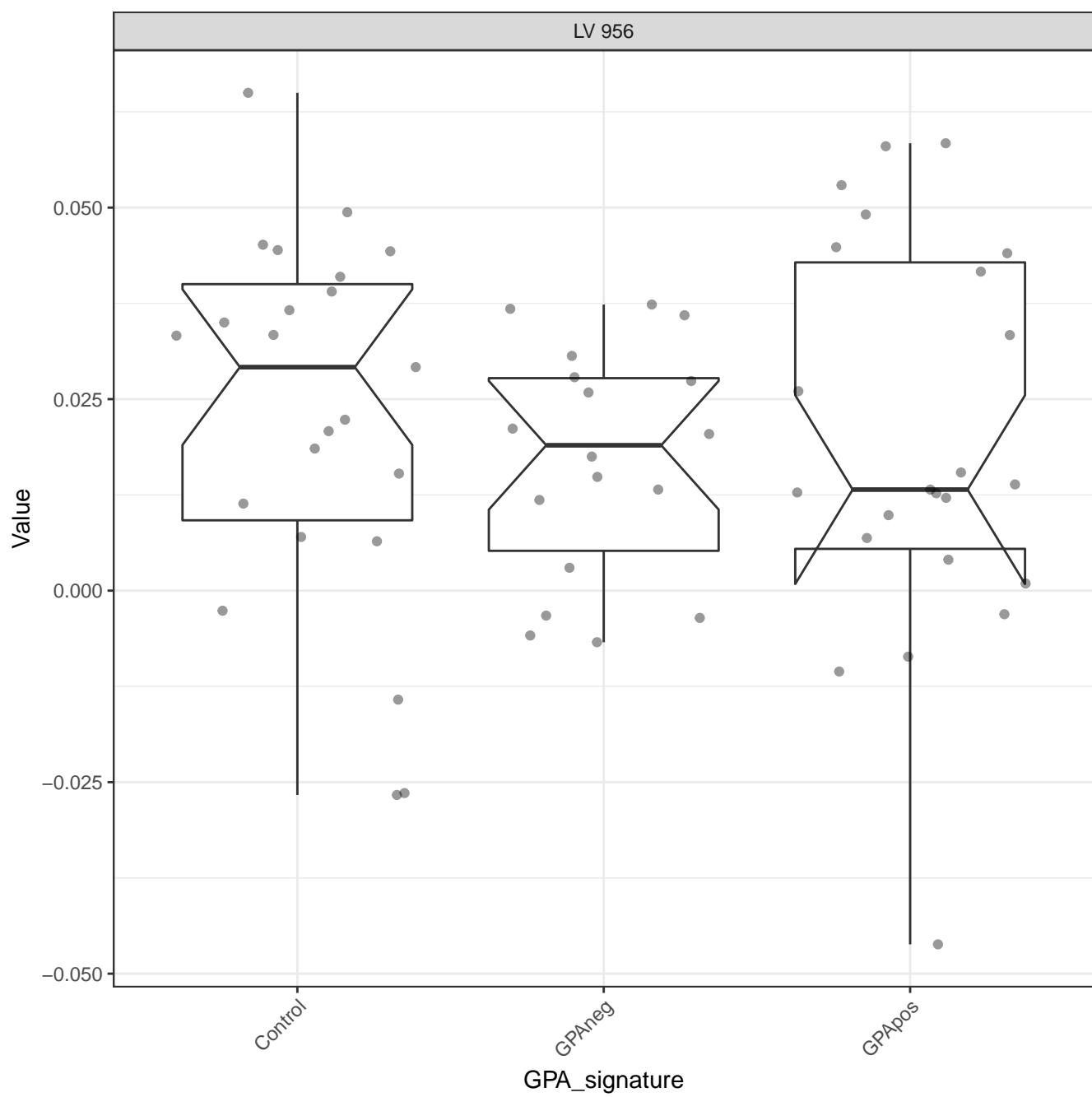
GPA\_signature



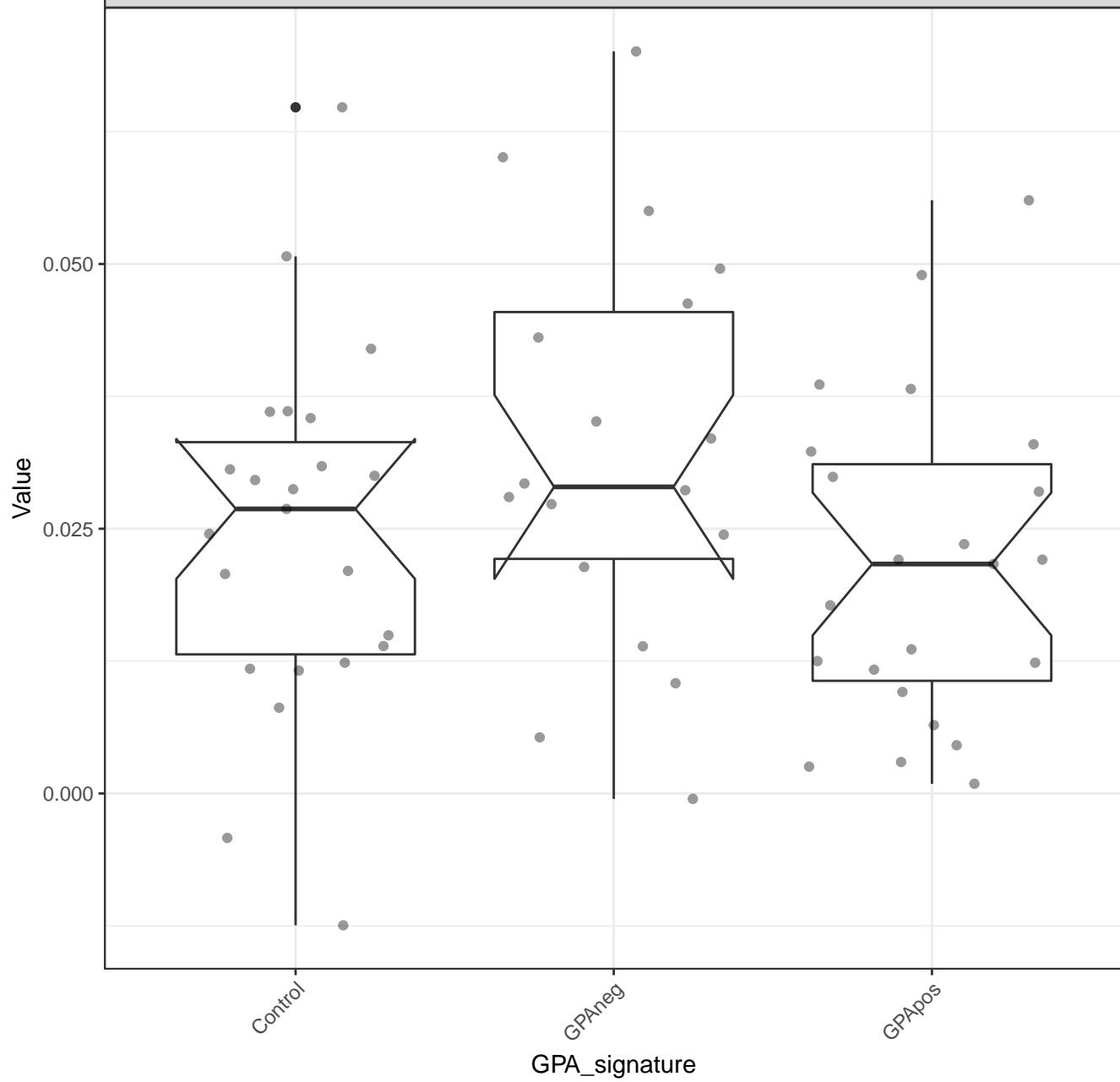
## LV 955



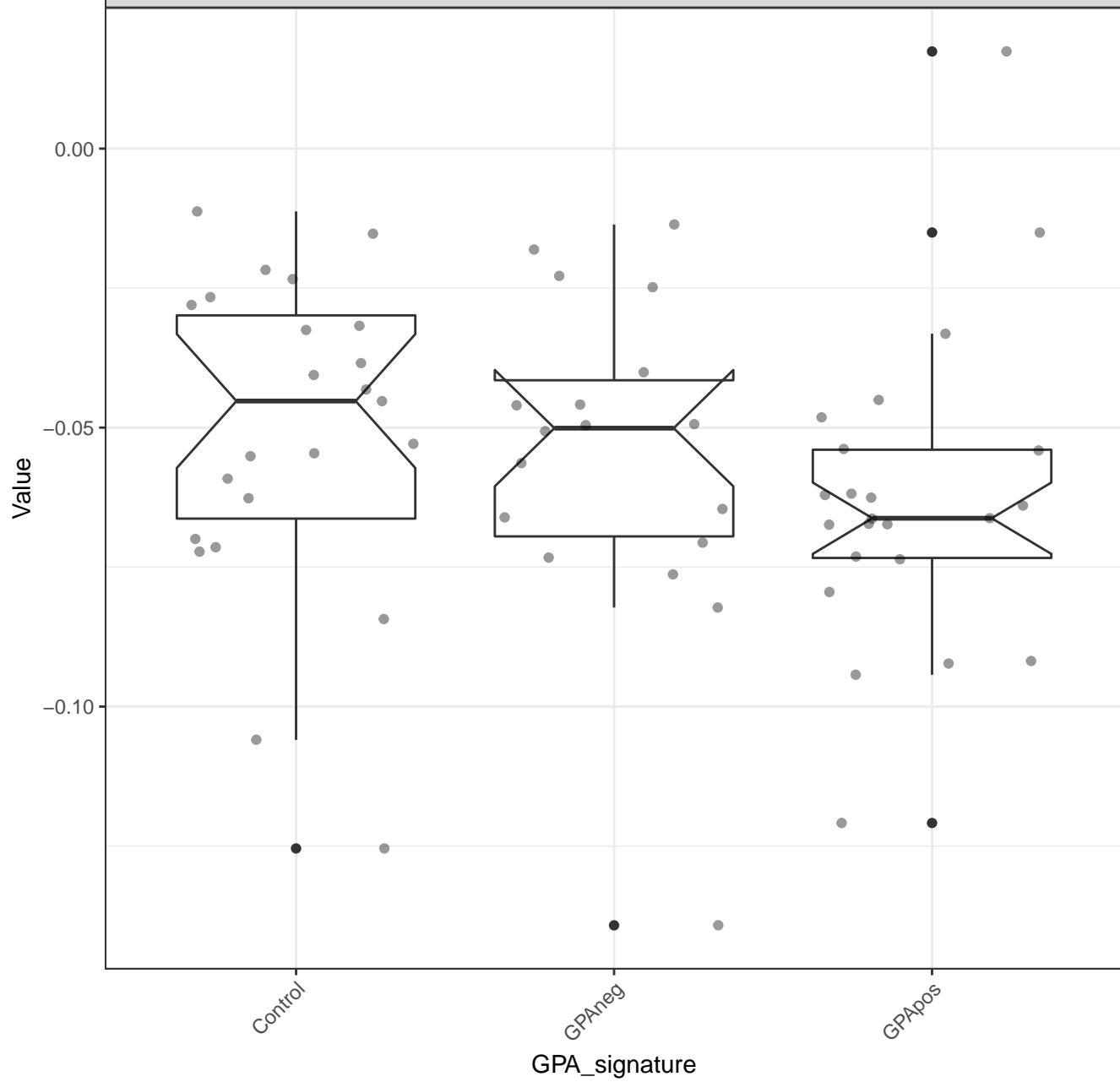
## LV 956



## LV 957



LV 958



## LV 959

Value

0.025

0.000

-0.025

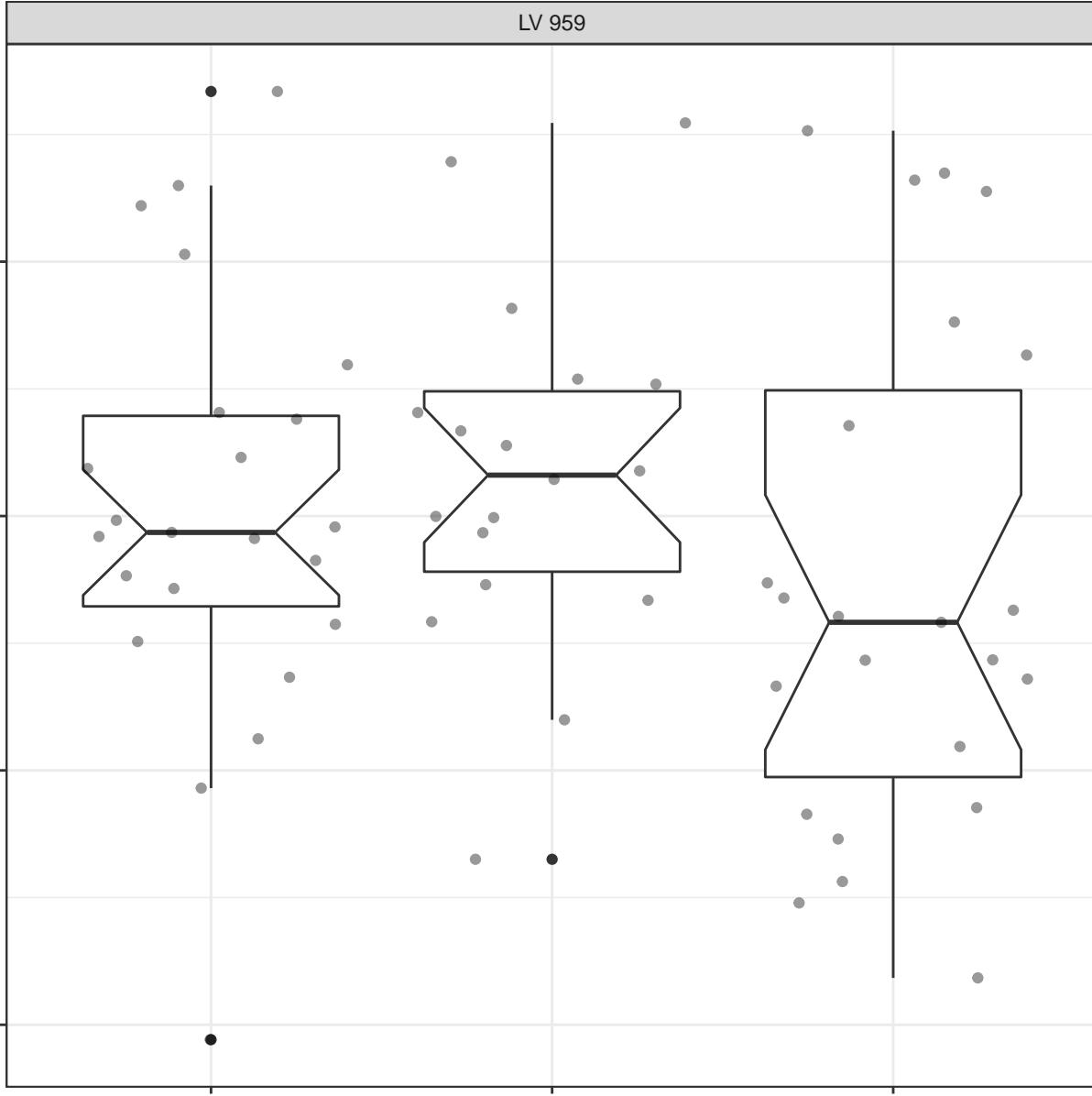
-0.050

Control

GPA\_signature

GPAneg

GPAPos



Value

0.08

0.04

0.00

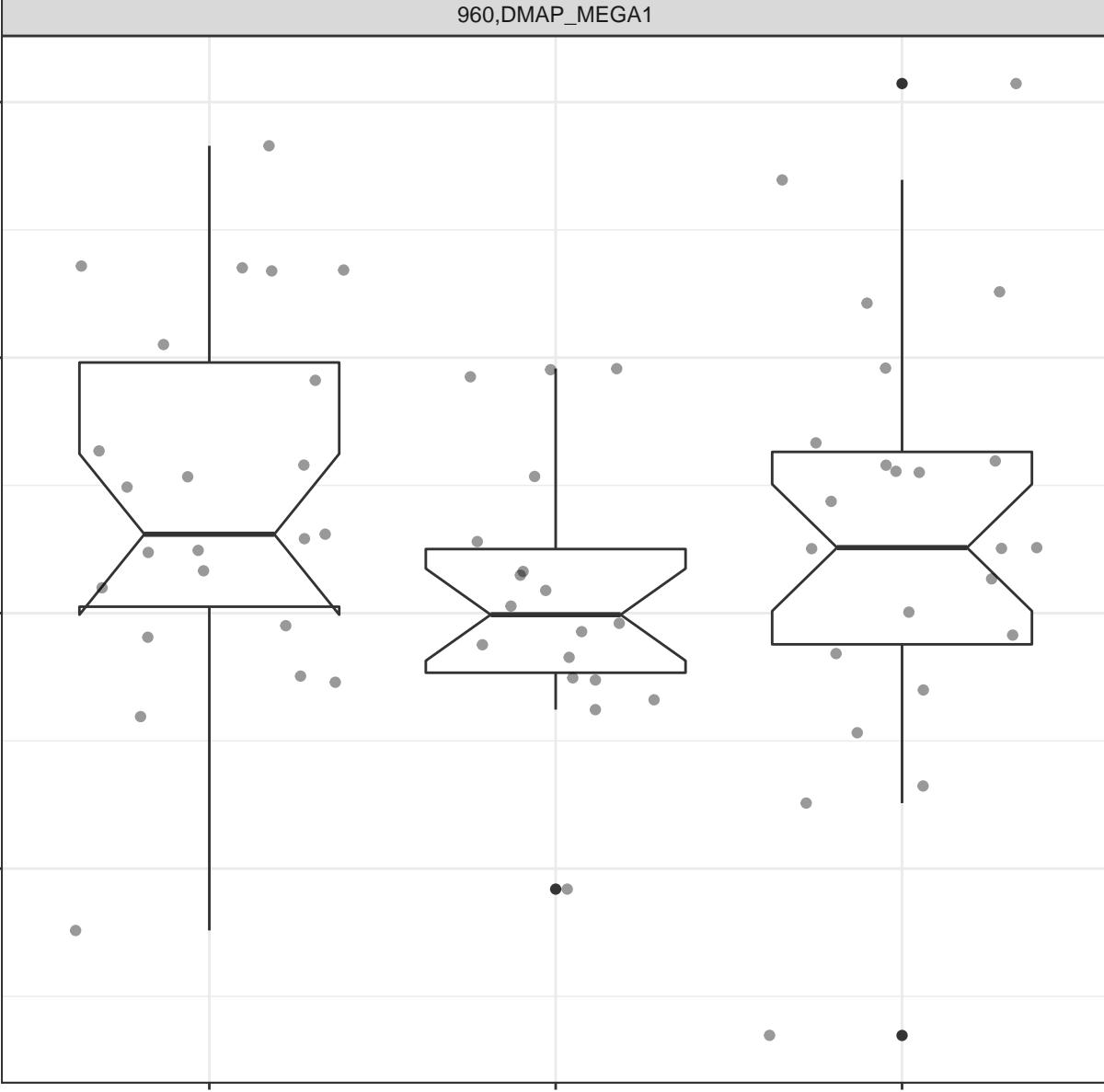
-0.04

Control

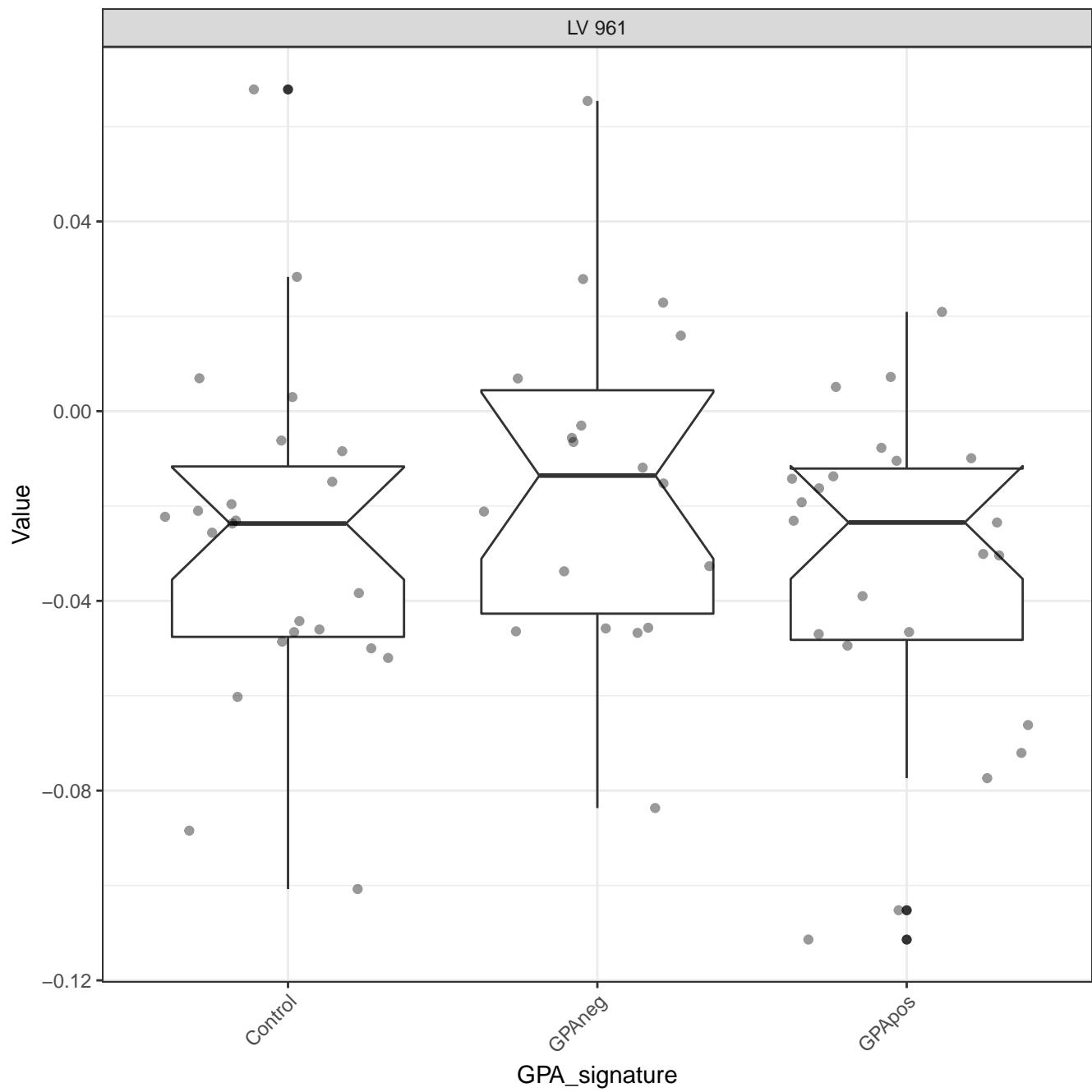
GPAneg

GPAPos

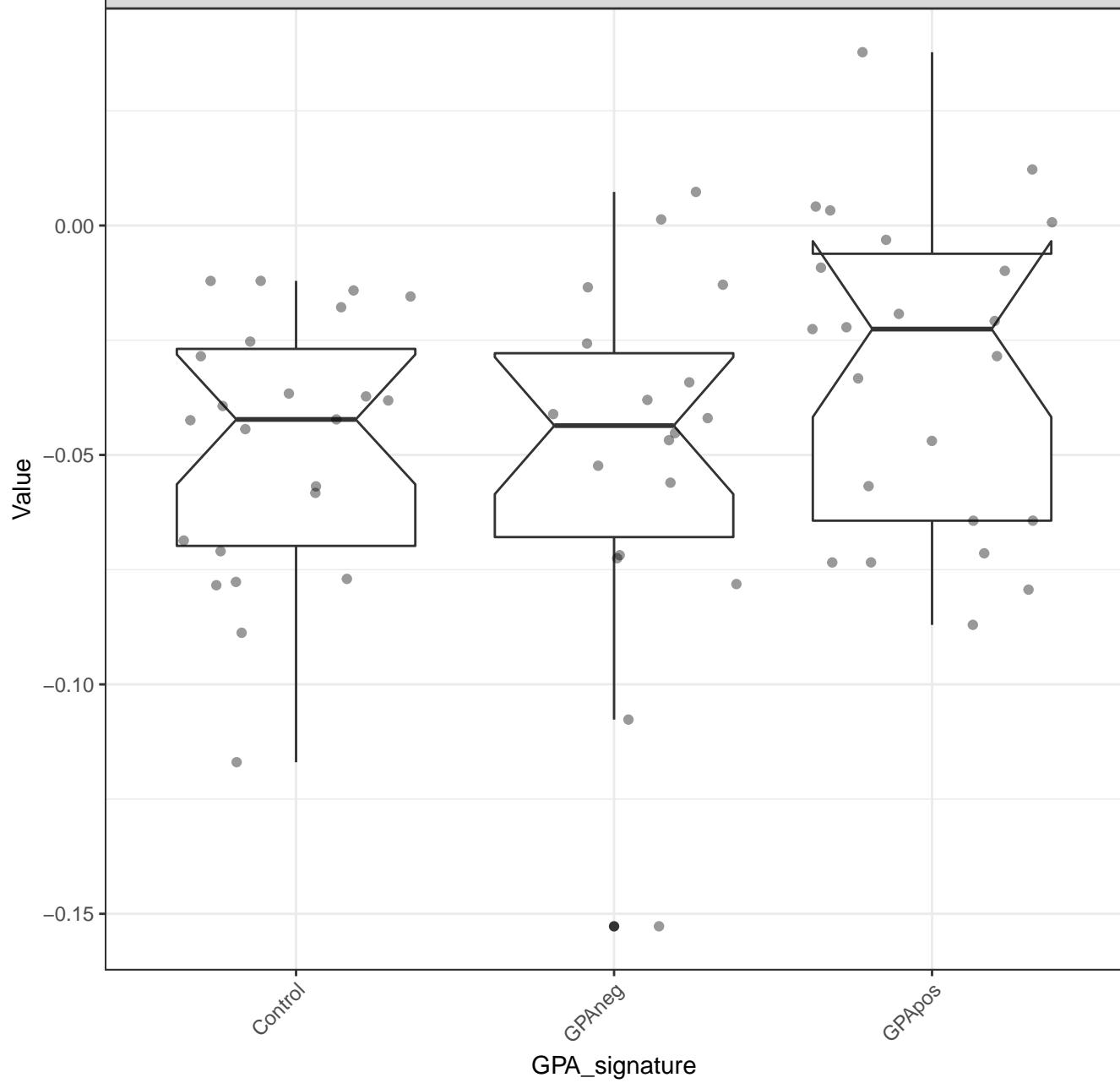
GPA\_signature



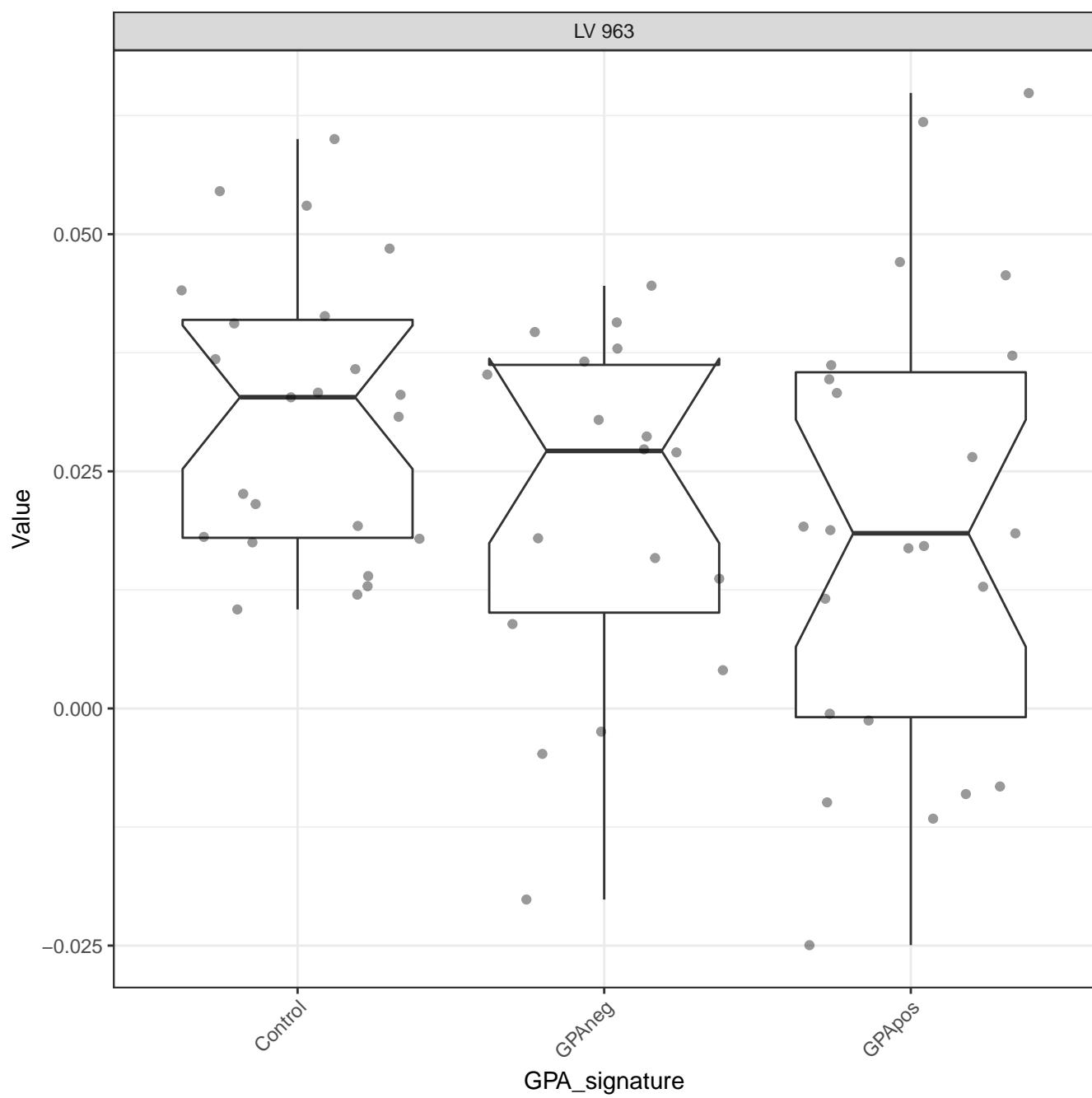
## LV 961



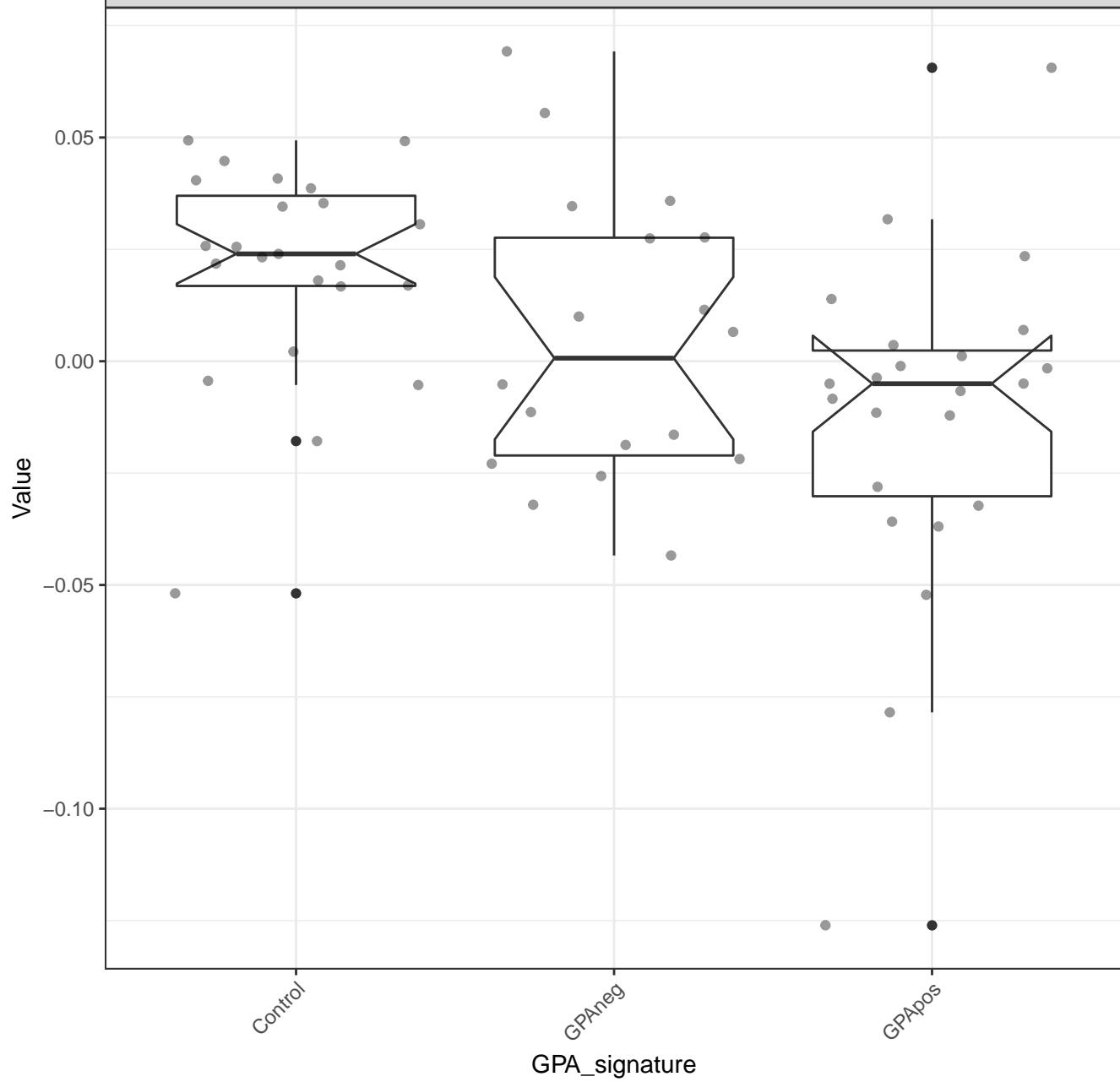
## LV 962



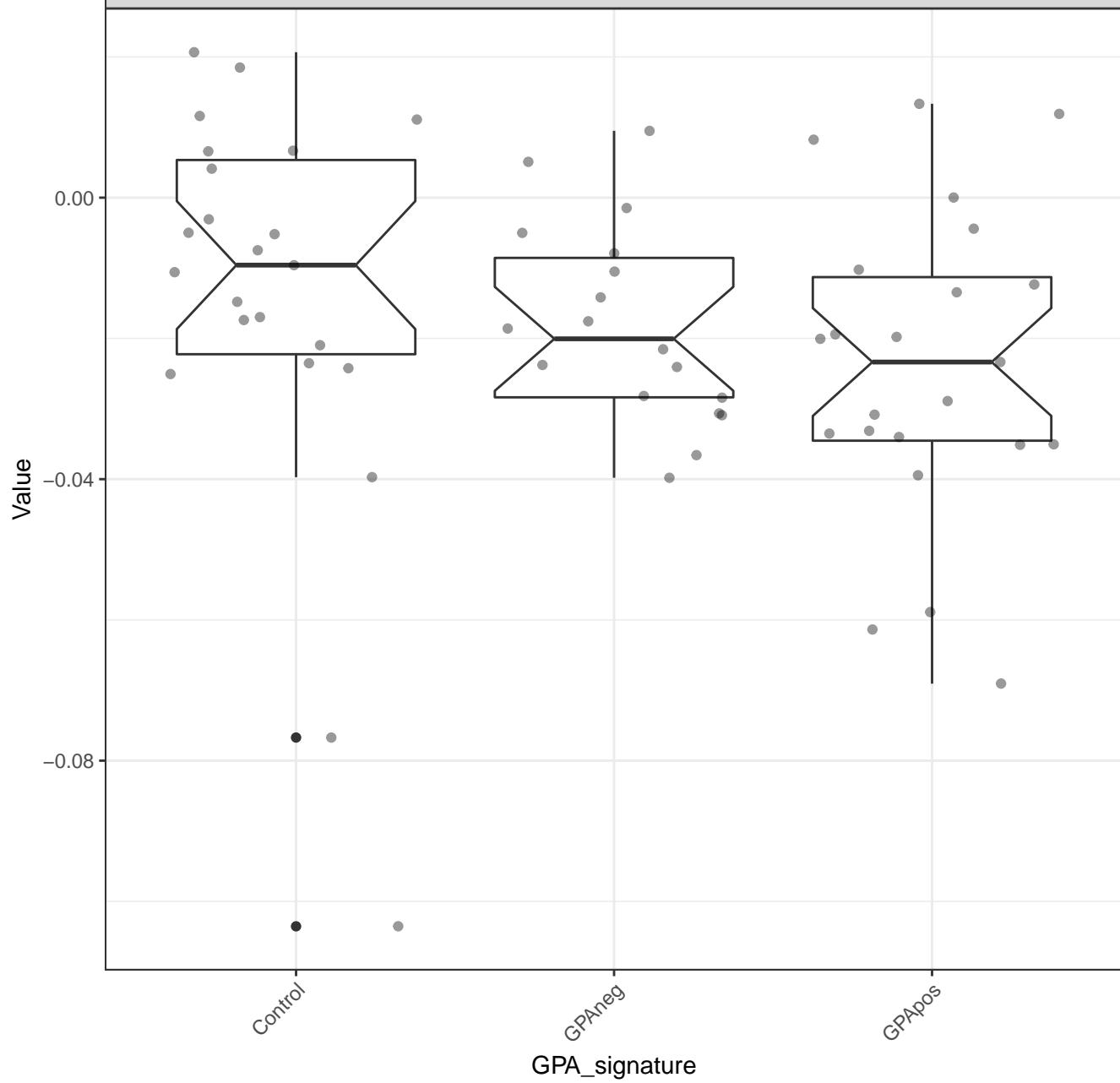
## LV 963



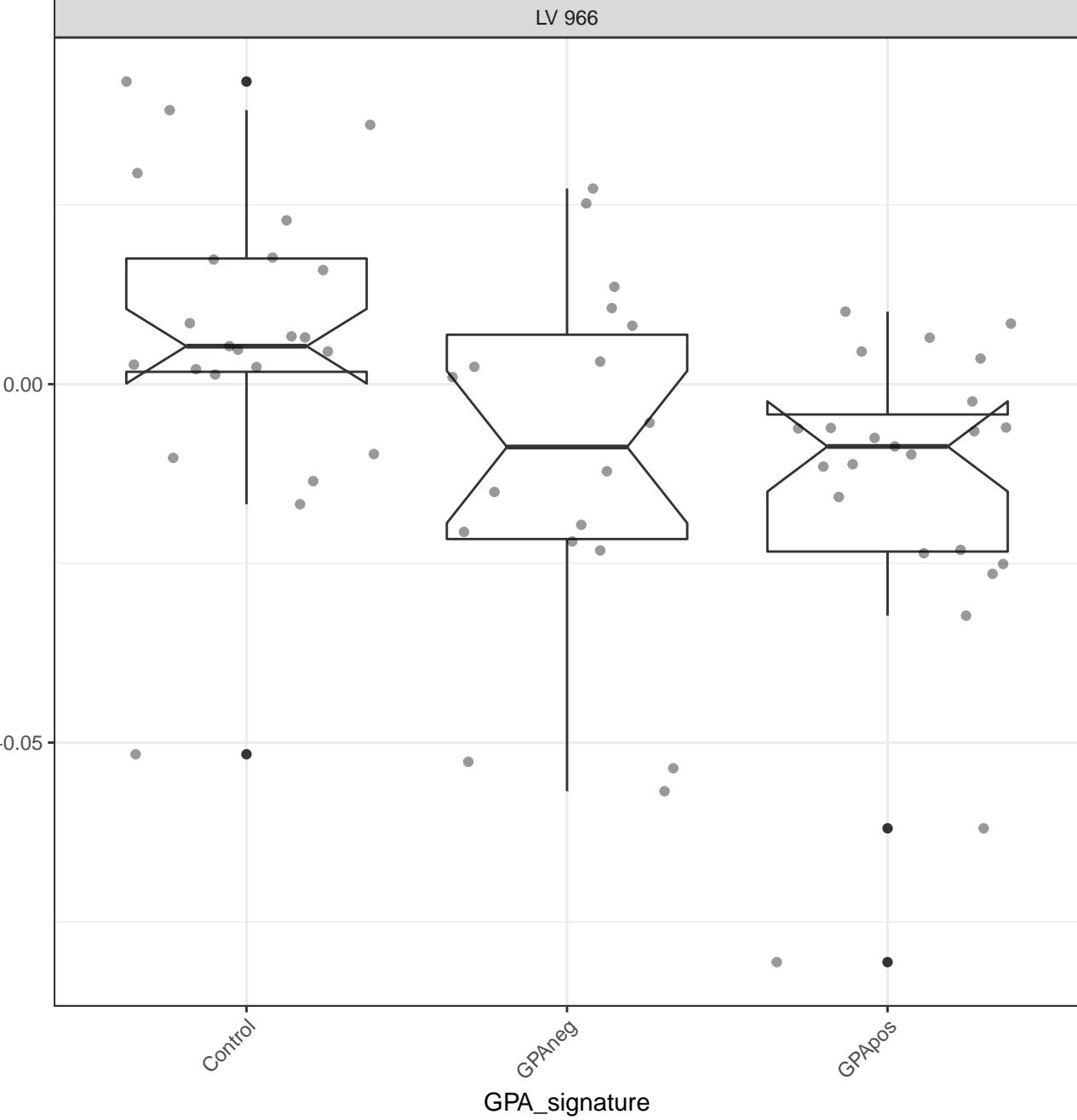
## 964,SVM T cells CD8



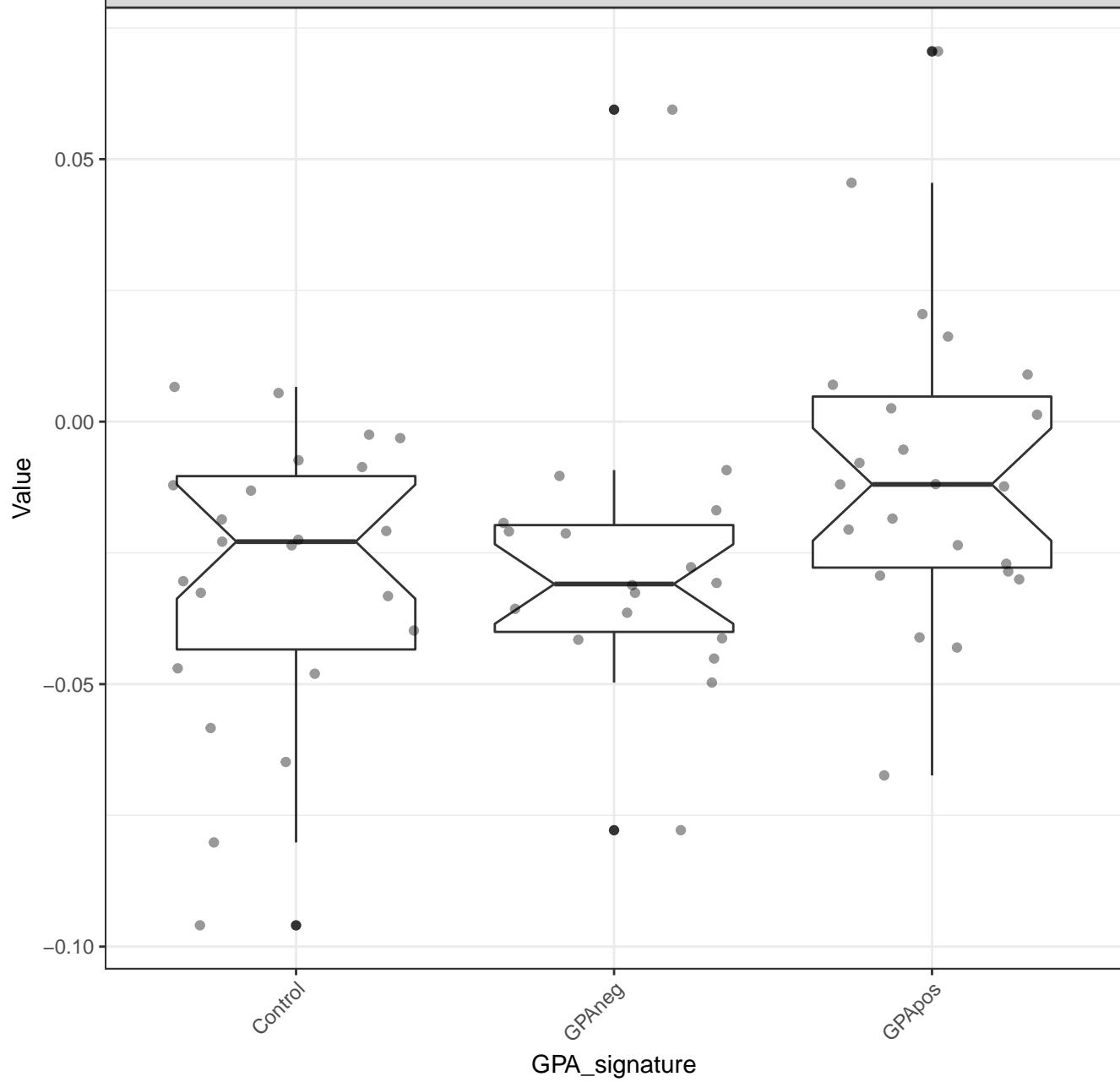
## LV 965



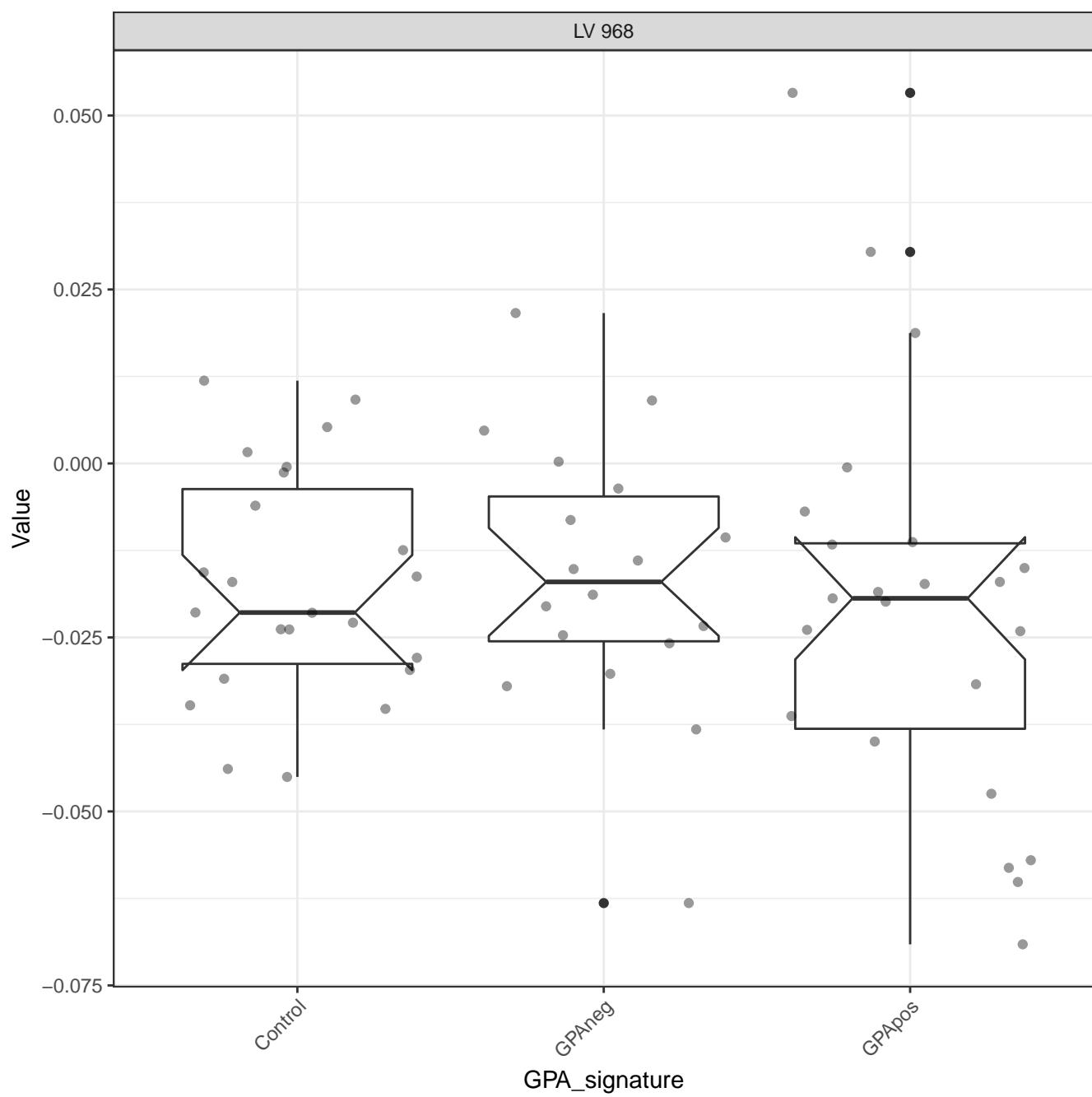
Value



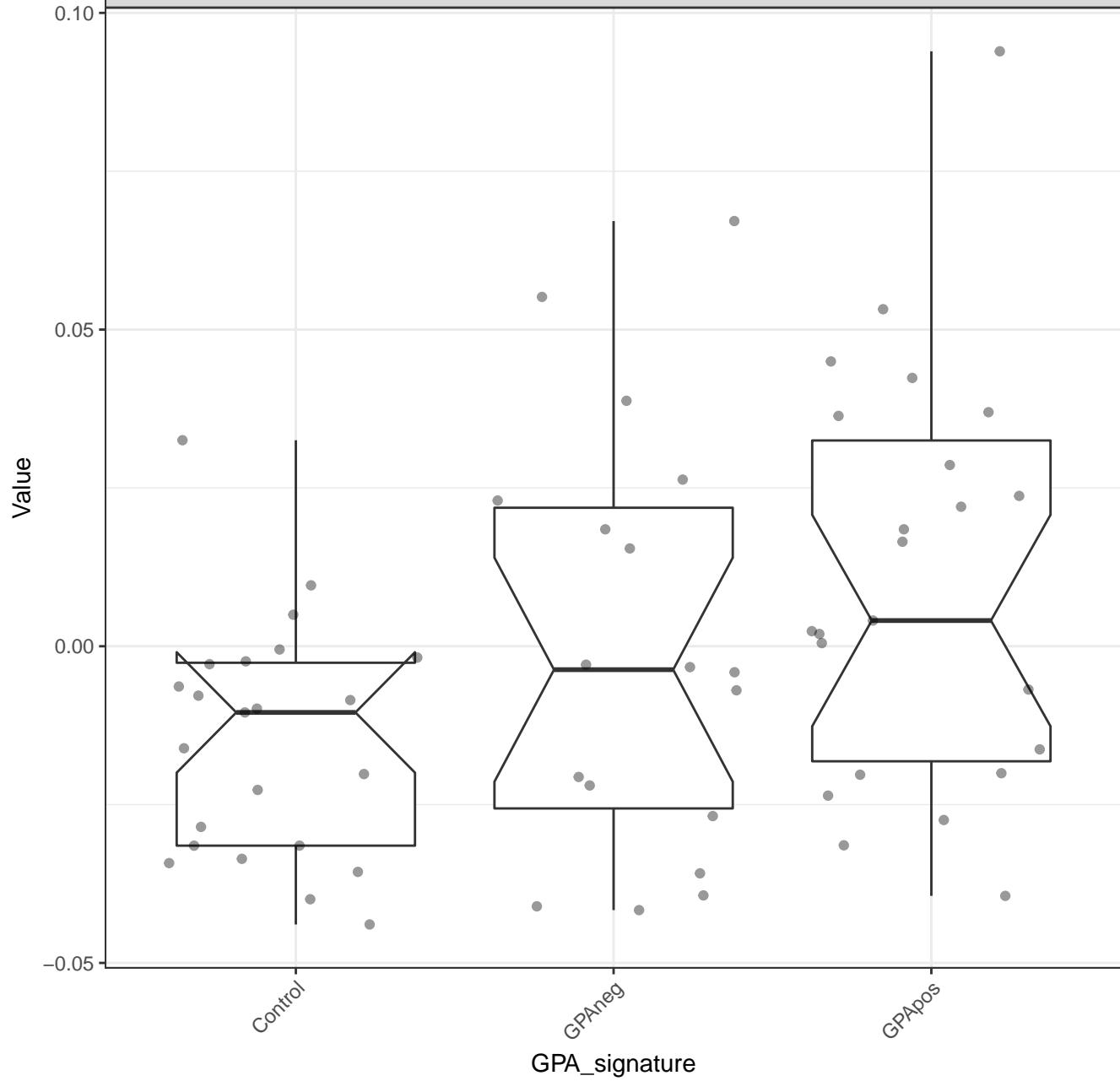
## LV 967

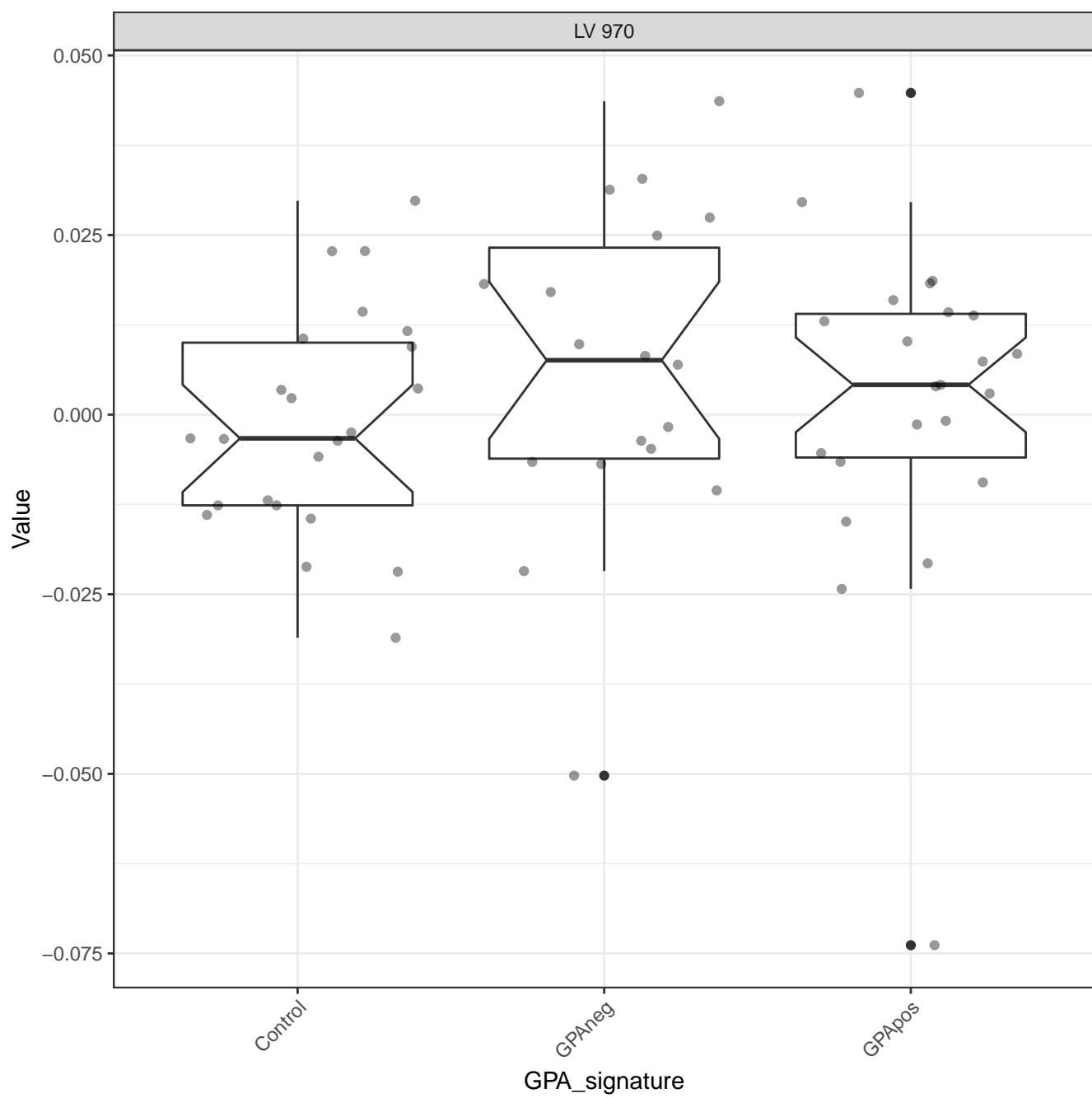


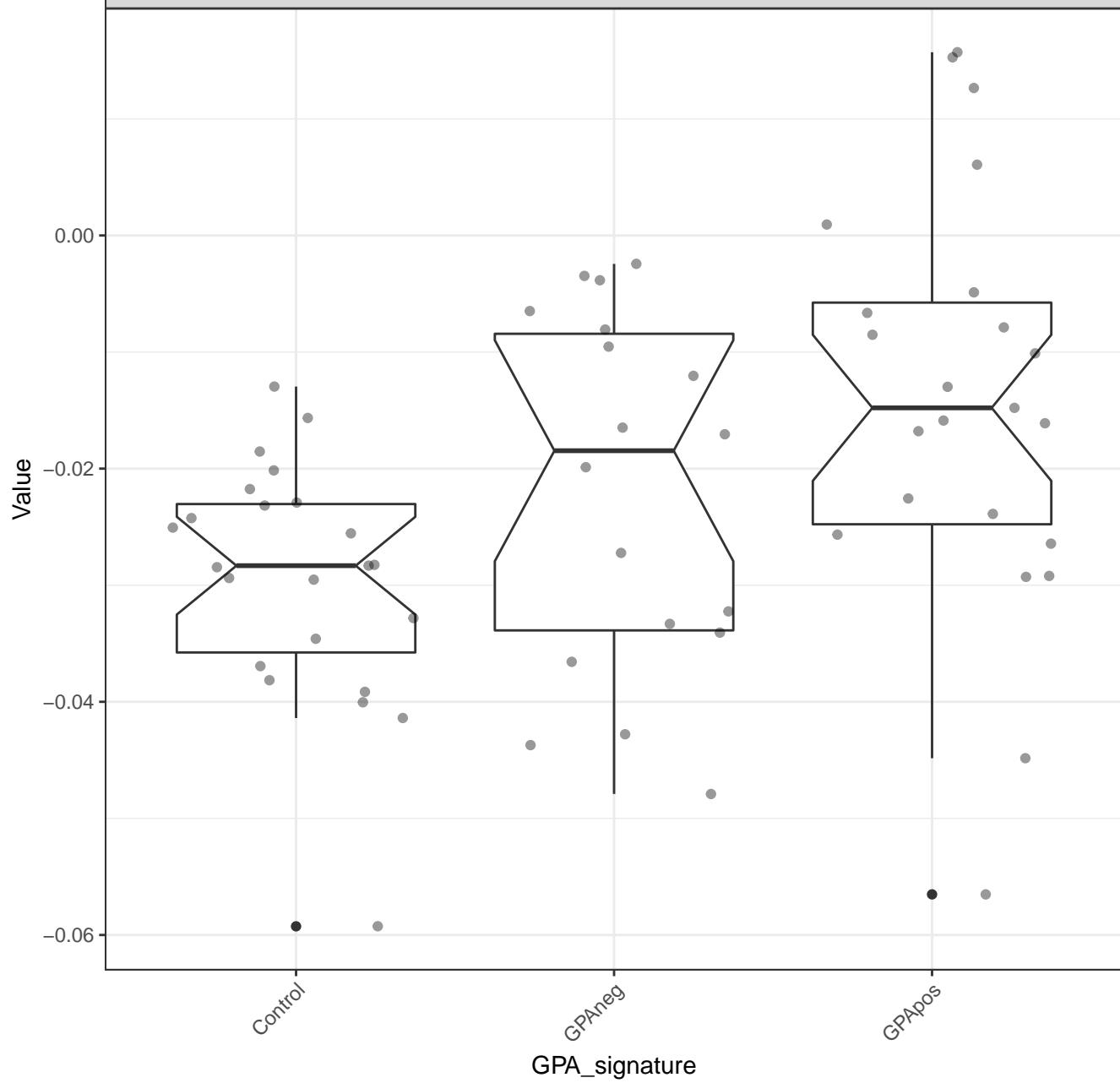
## LV 968



LV 969







## LV 972

Value

0.10

0.05

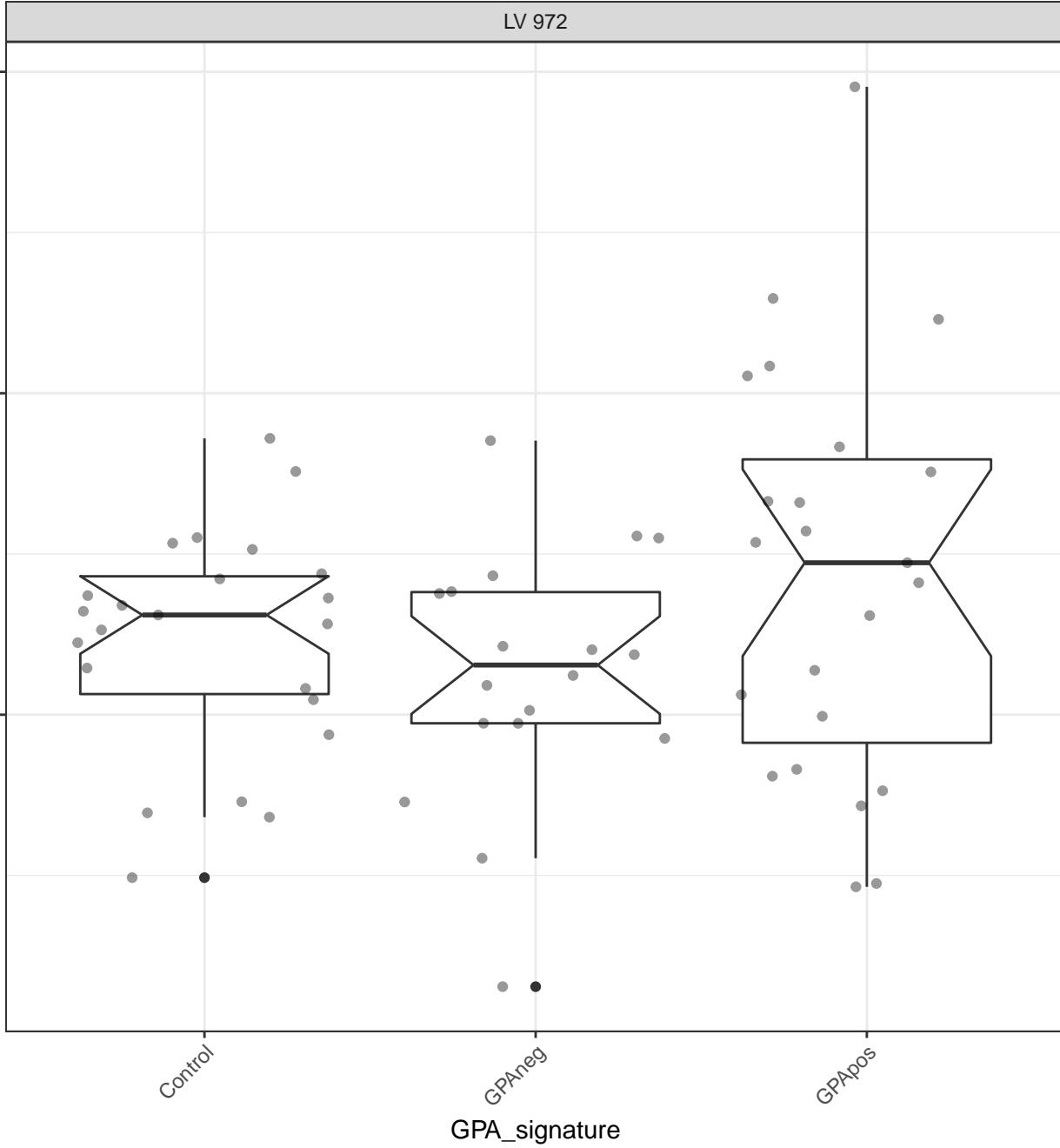
0.00

Control

GPA\_signature

GPAneg

GPApos



## LV 973

Value

0.050

0.025

0.000

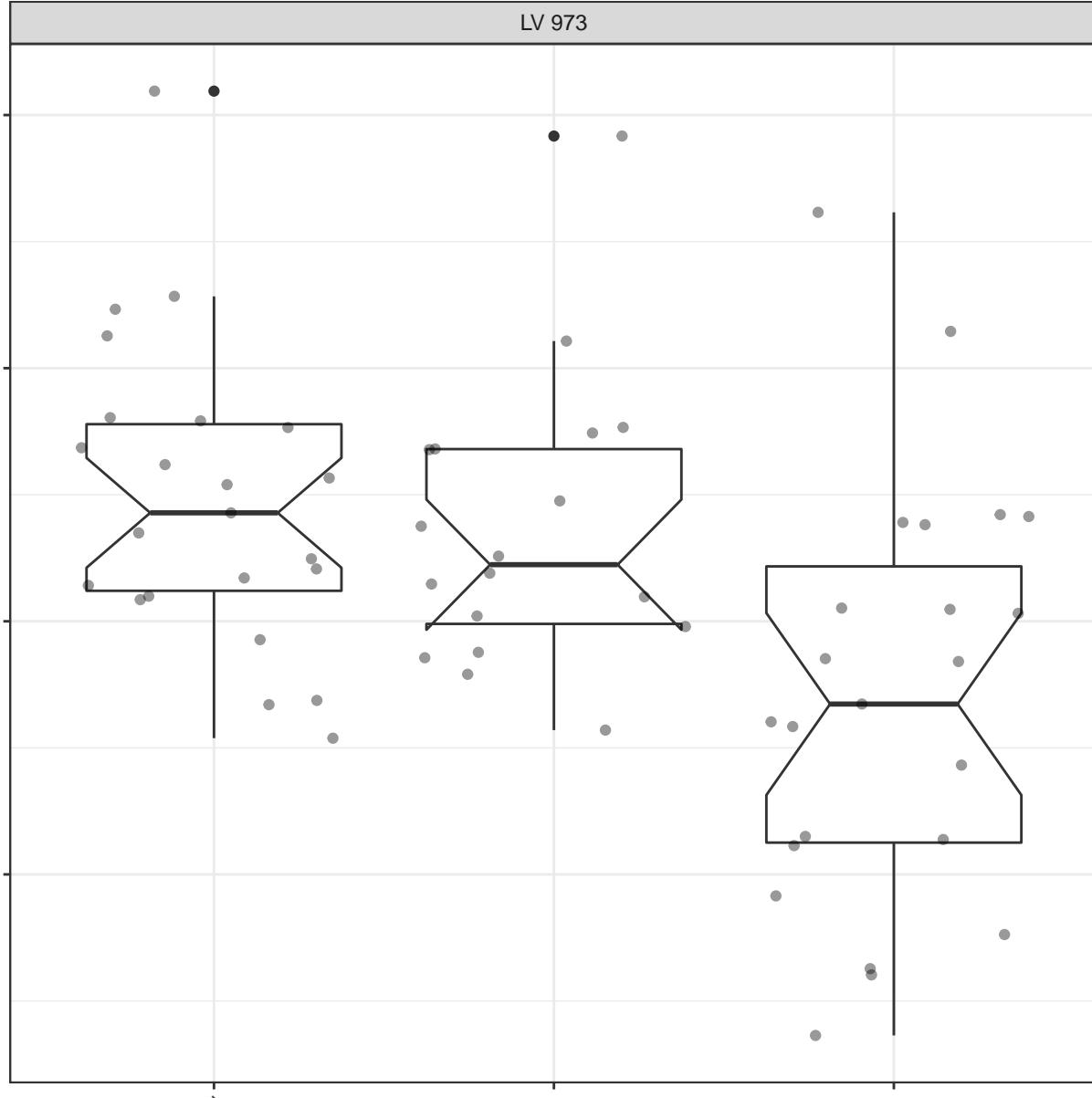
-0.025

Control

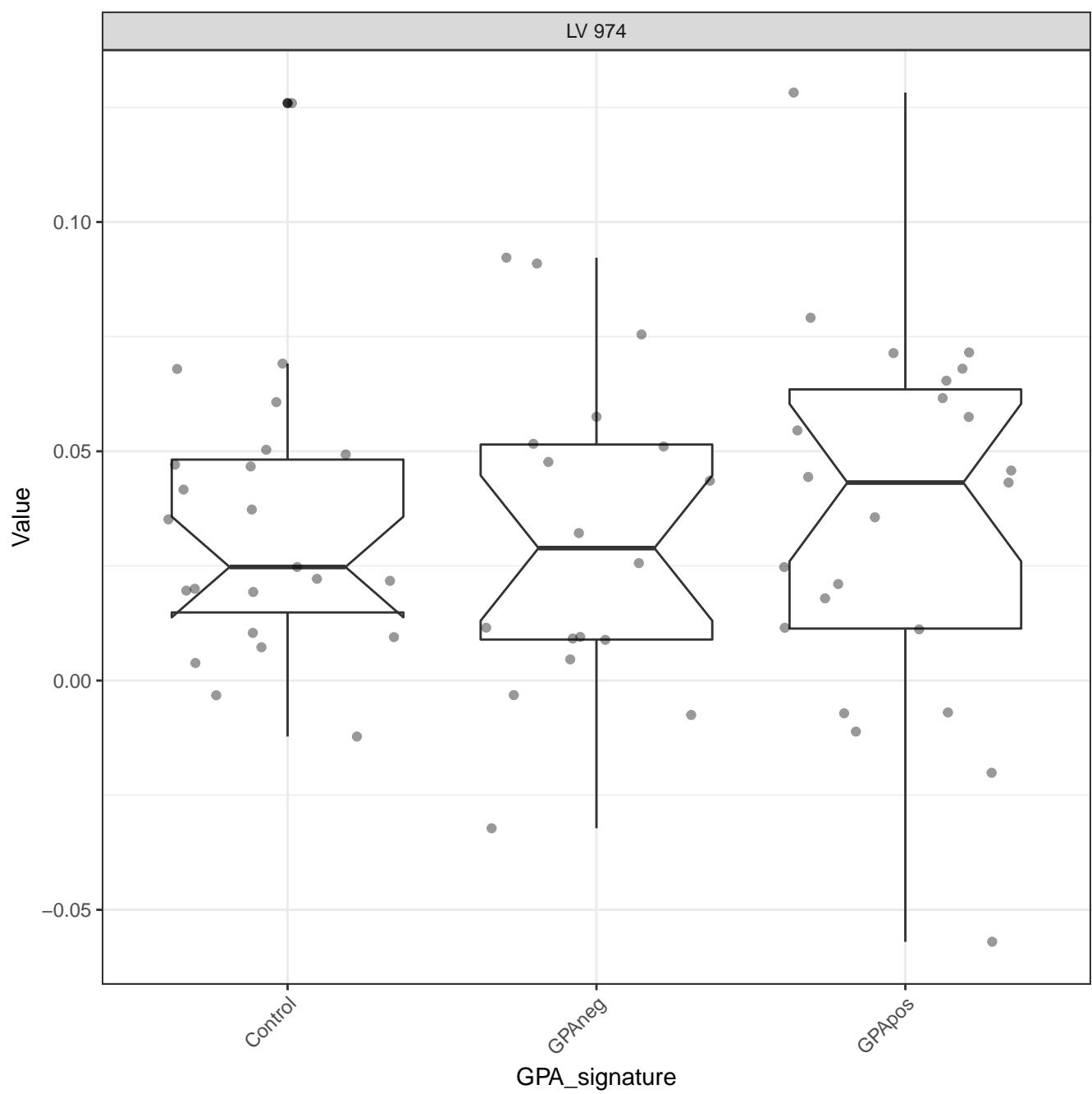
GPAneg

GPAPos

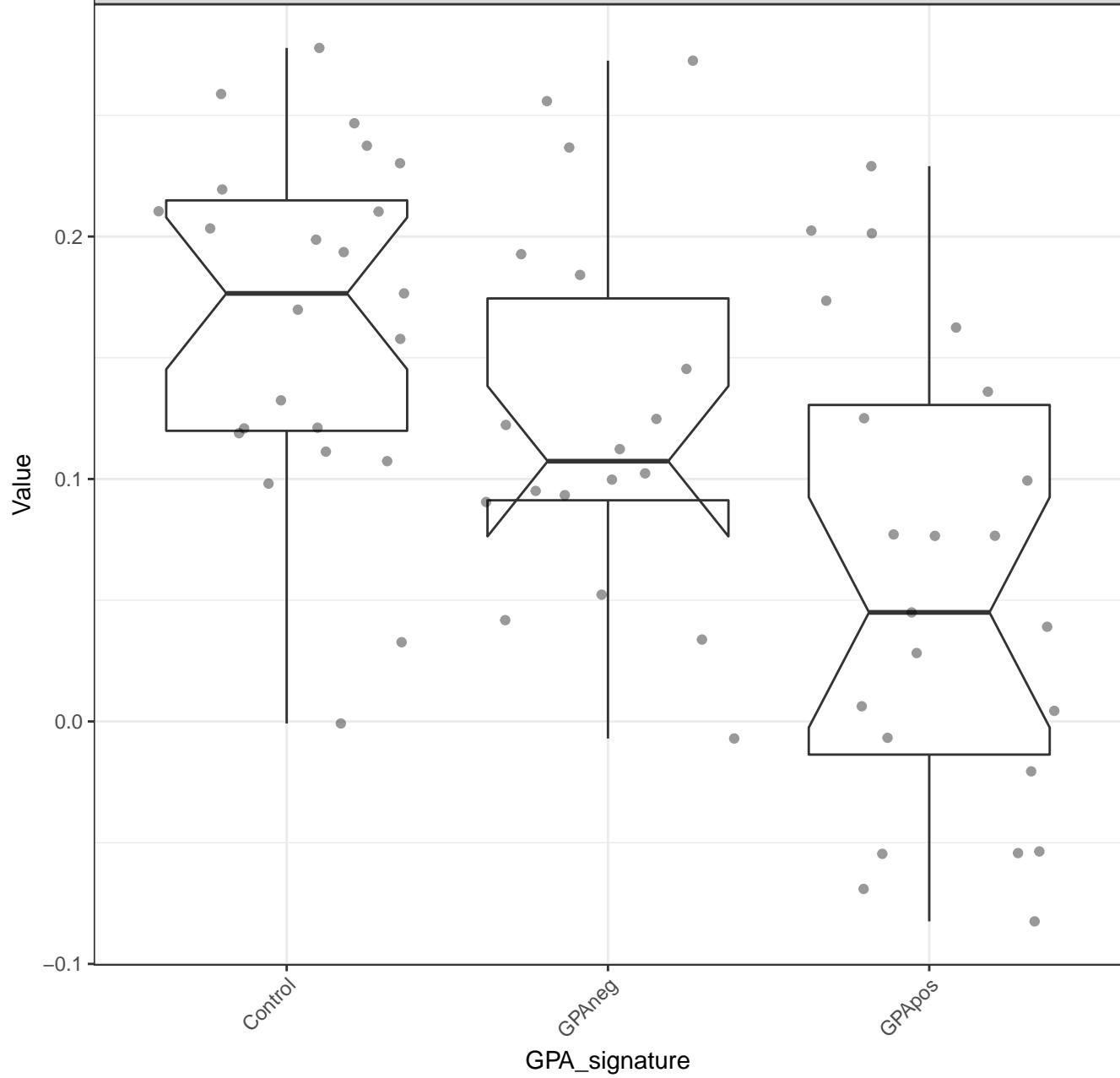
GPA\_signature



## LV 974



## 975,SVM T cells CD4 memory resting



## LV 976

Value

0.4

0.3

0.2

0.1

0.0

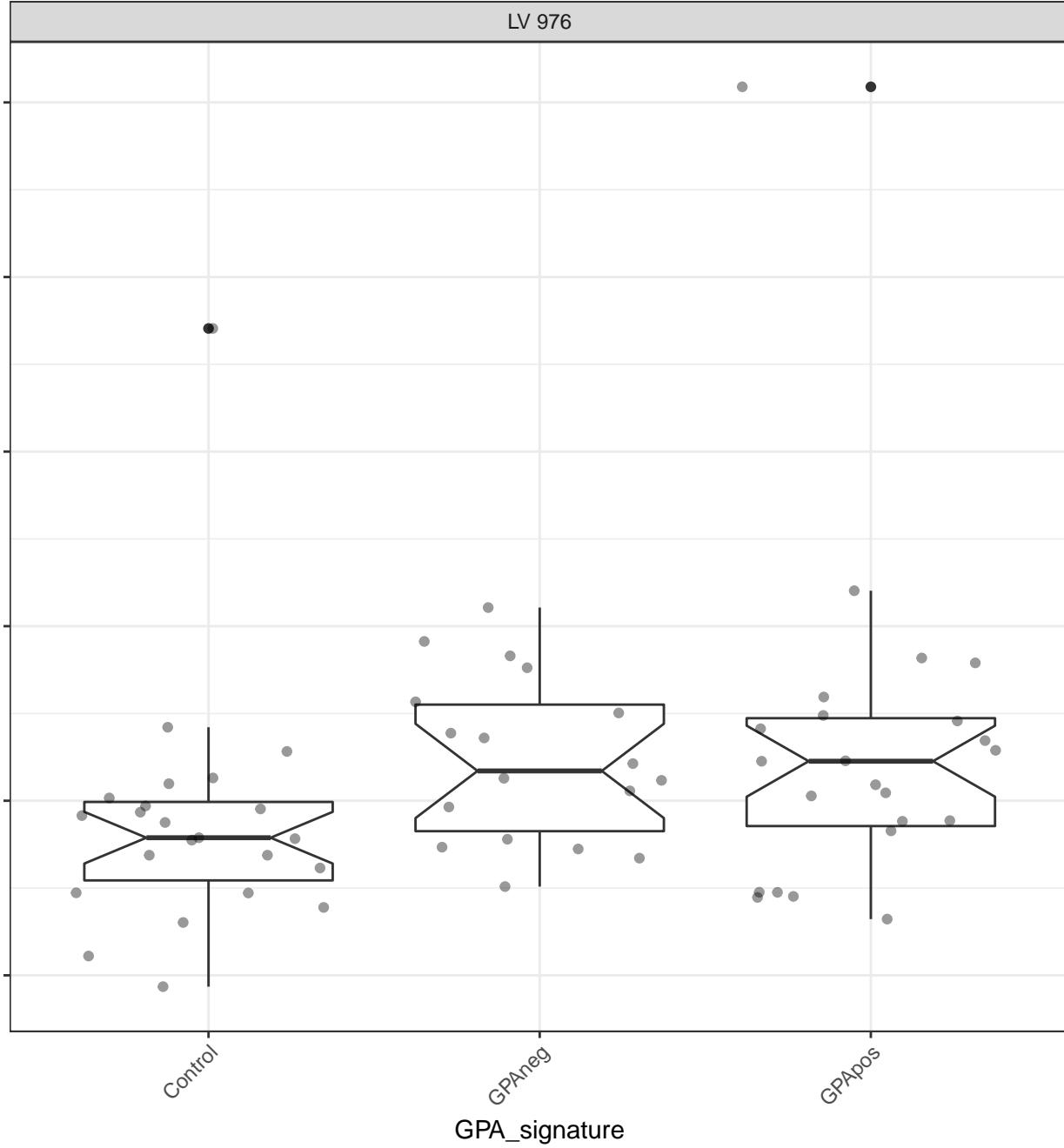
-0.1

Control

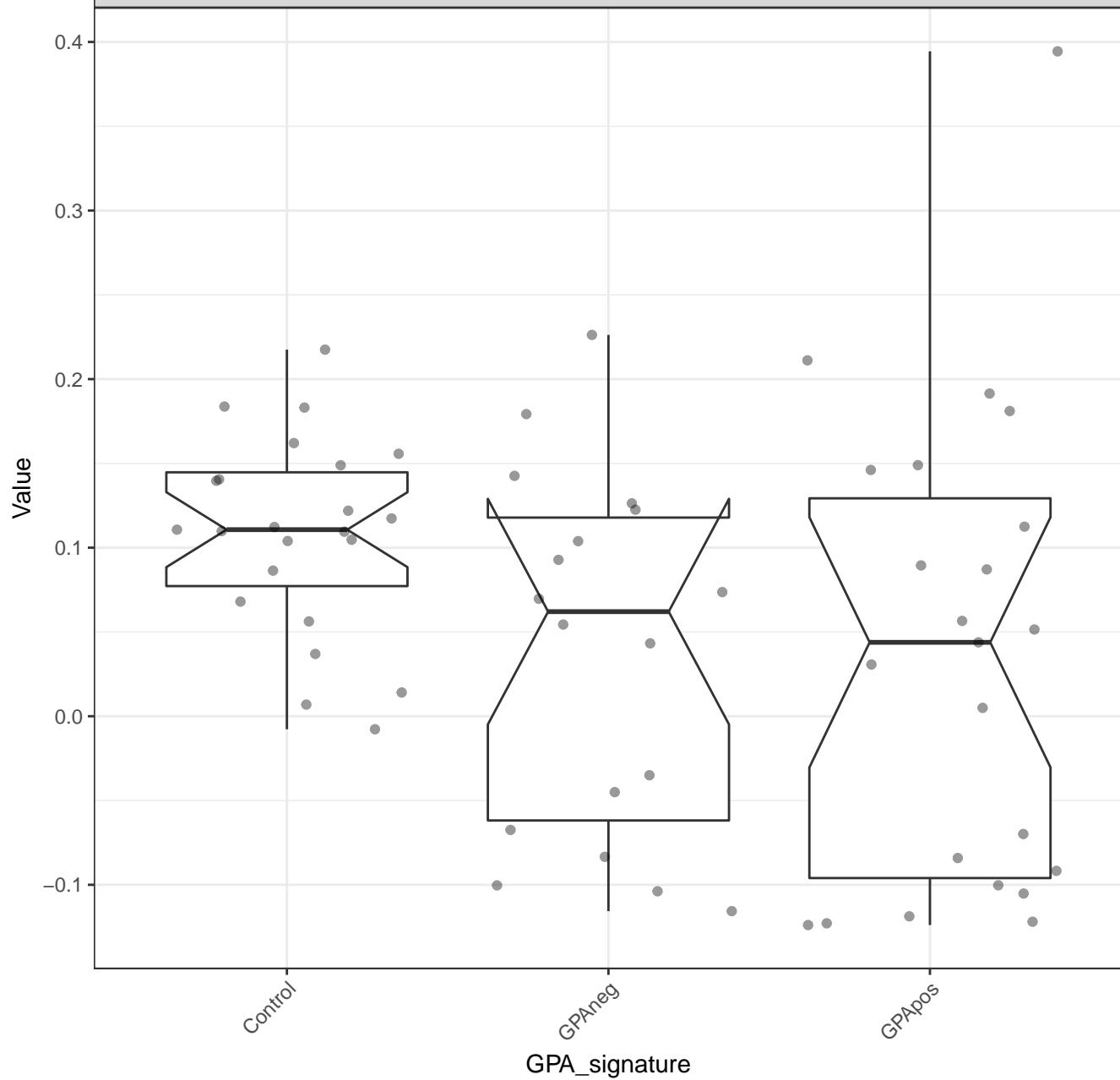
GPA\_signature

GPAneg

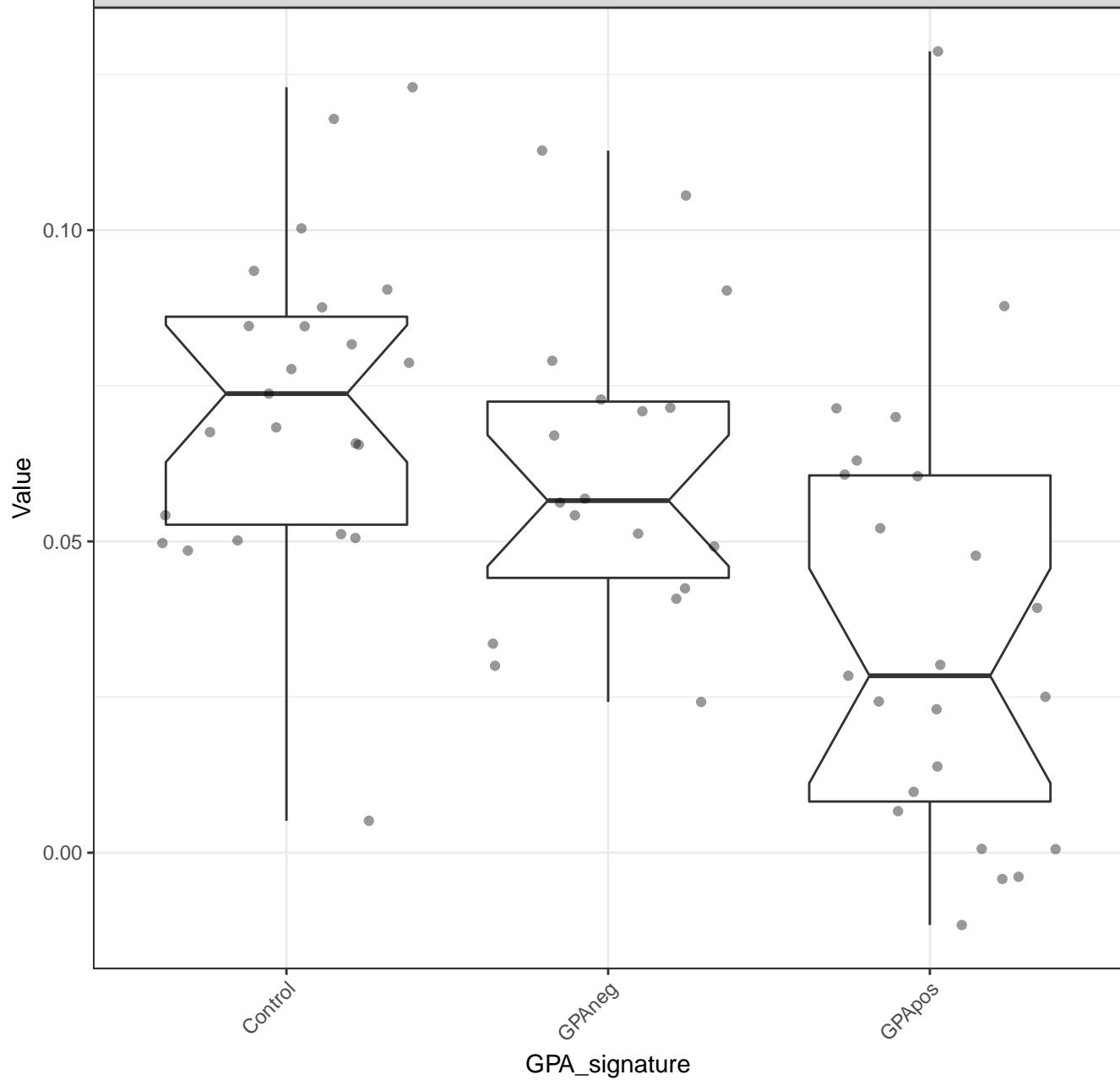
GPApos



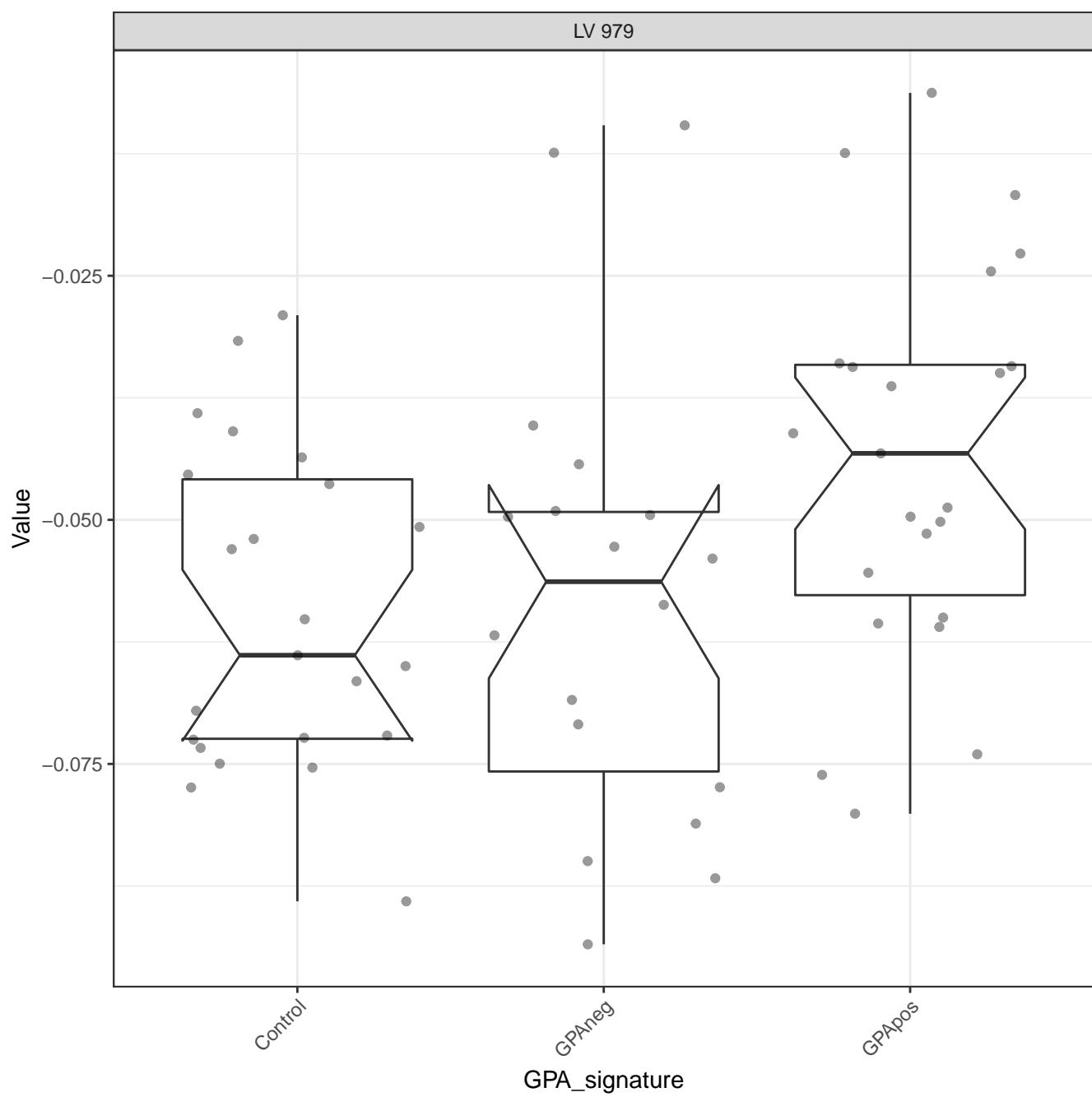
## 977,SVM B cells naive



LV 978



## LV 979



## LV 980

Value

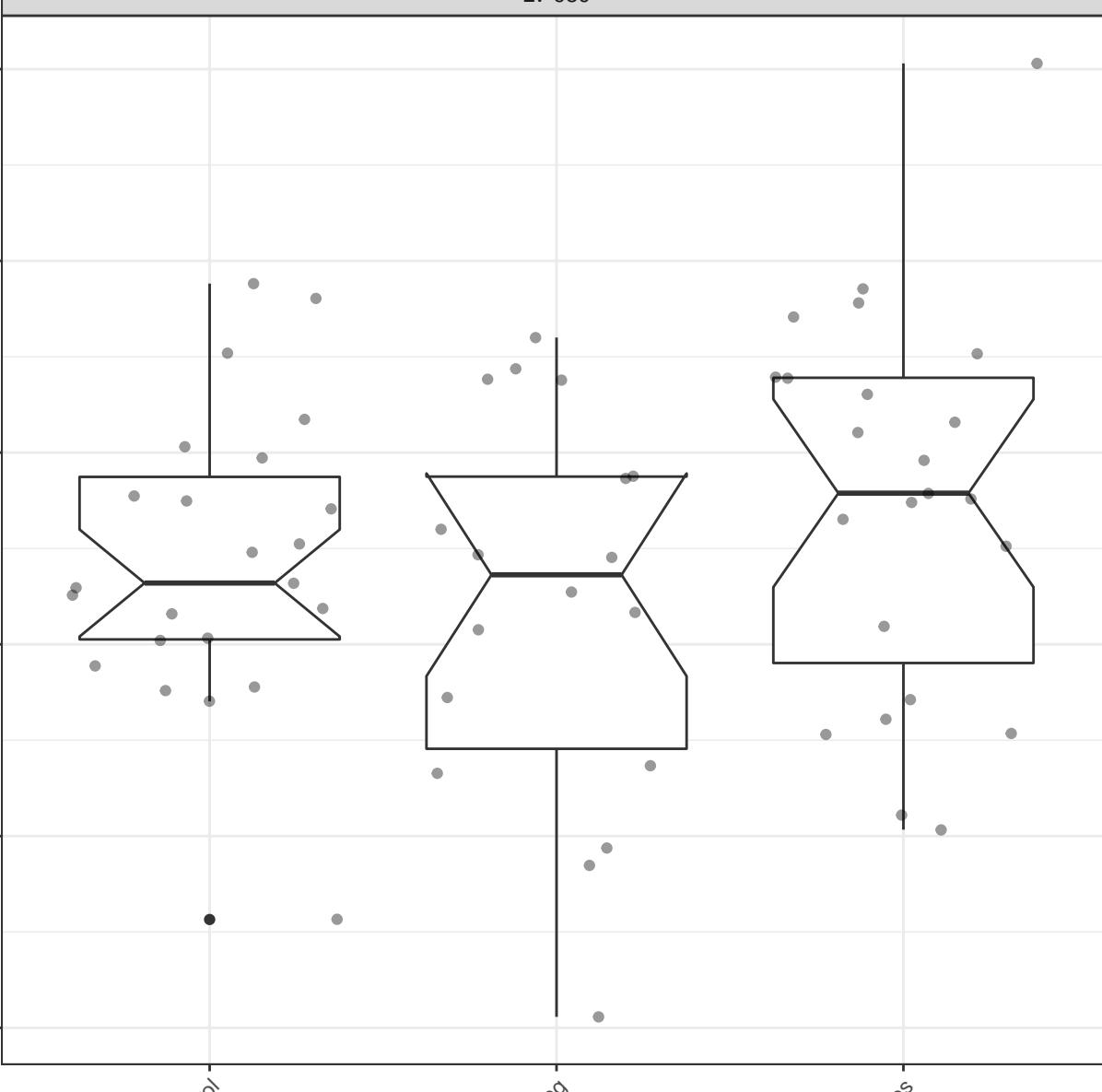
0.04  
0.02  
0.00  
-0.02  
-0.04  
-0.06

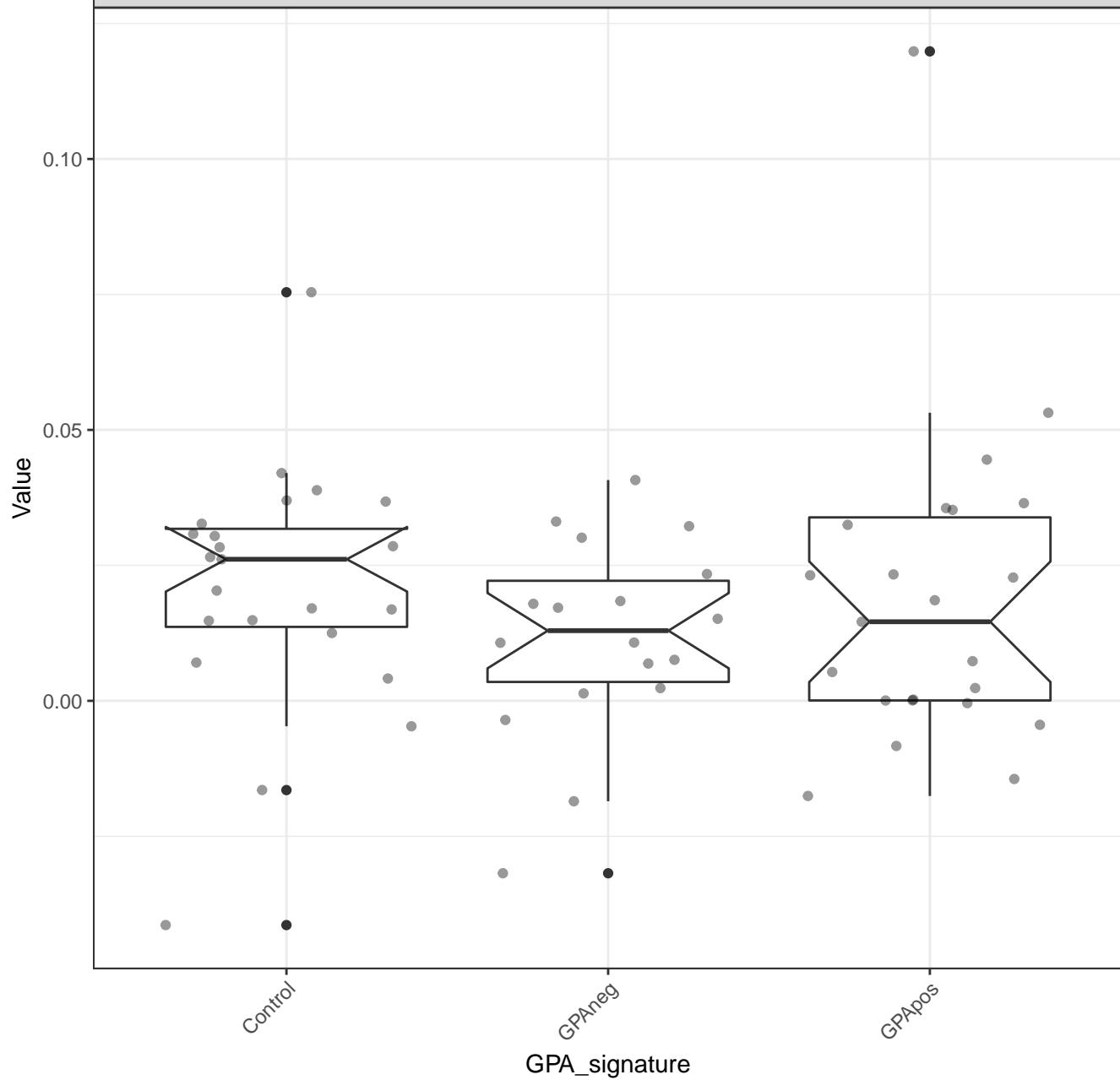
Control

GPAneg

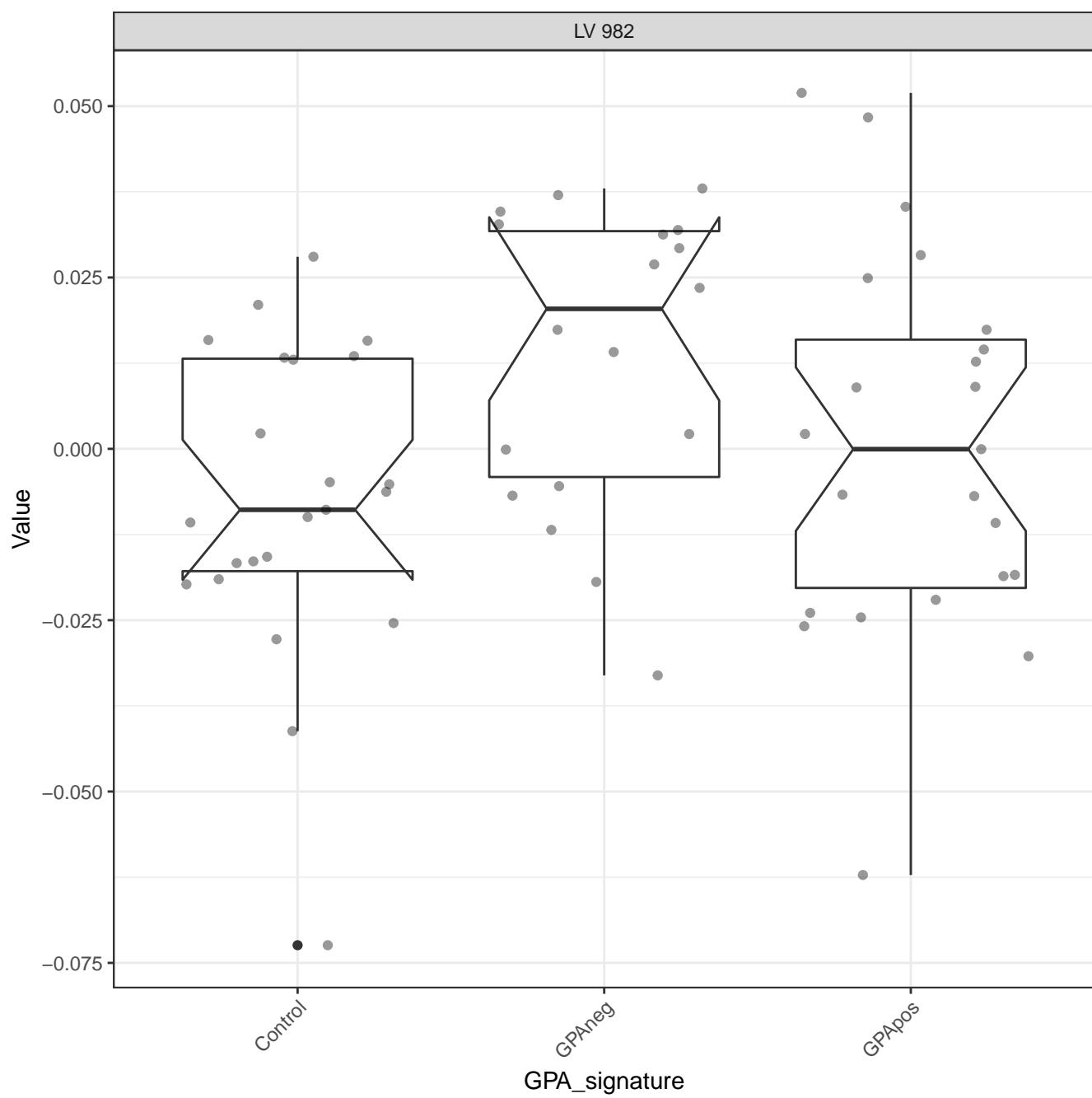
GPAPos

GPA\_signature

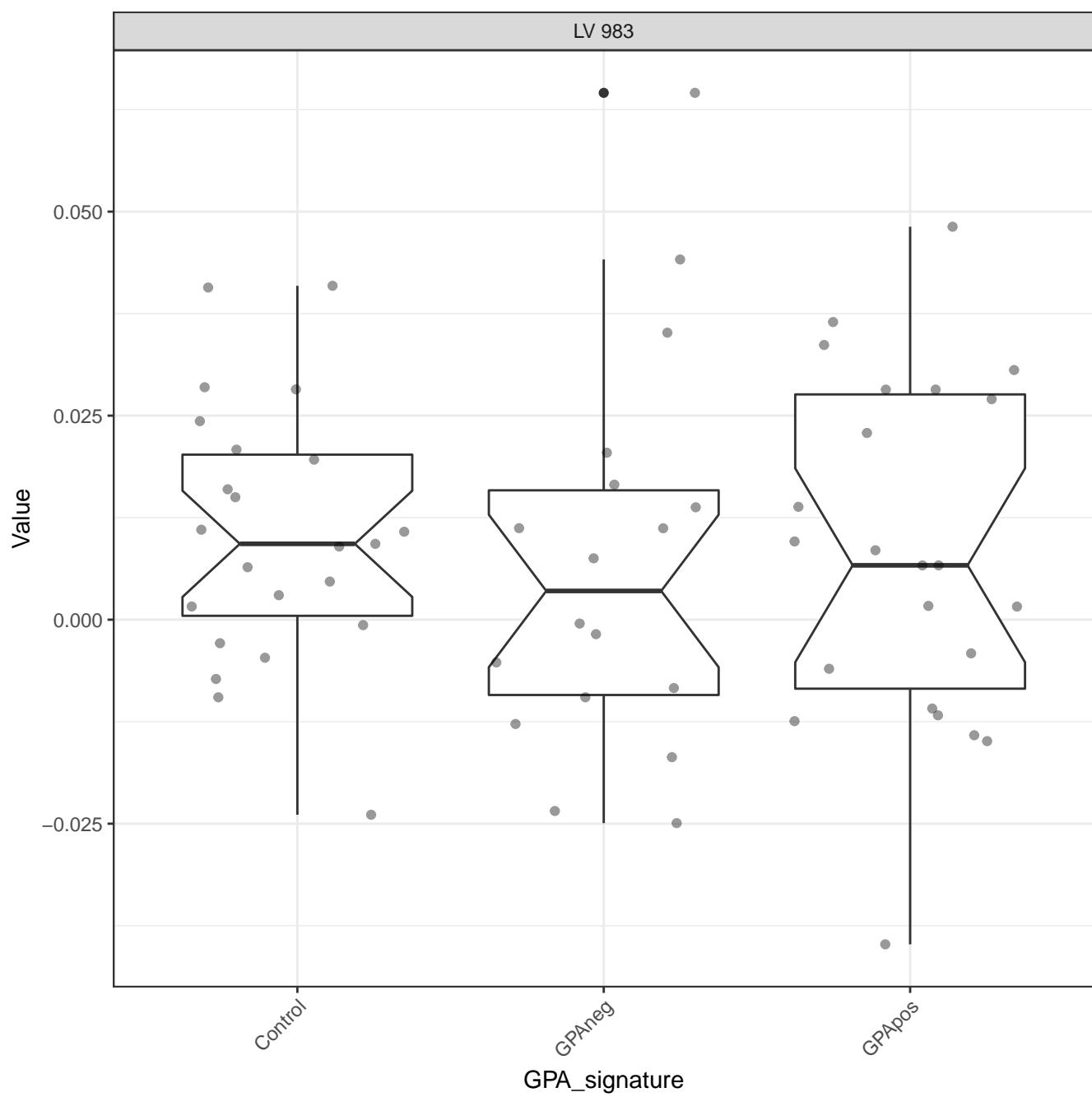




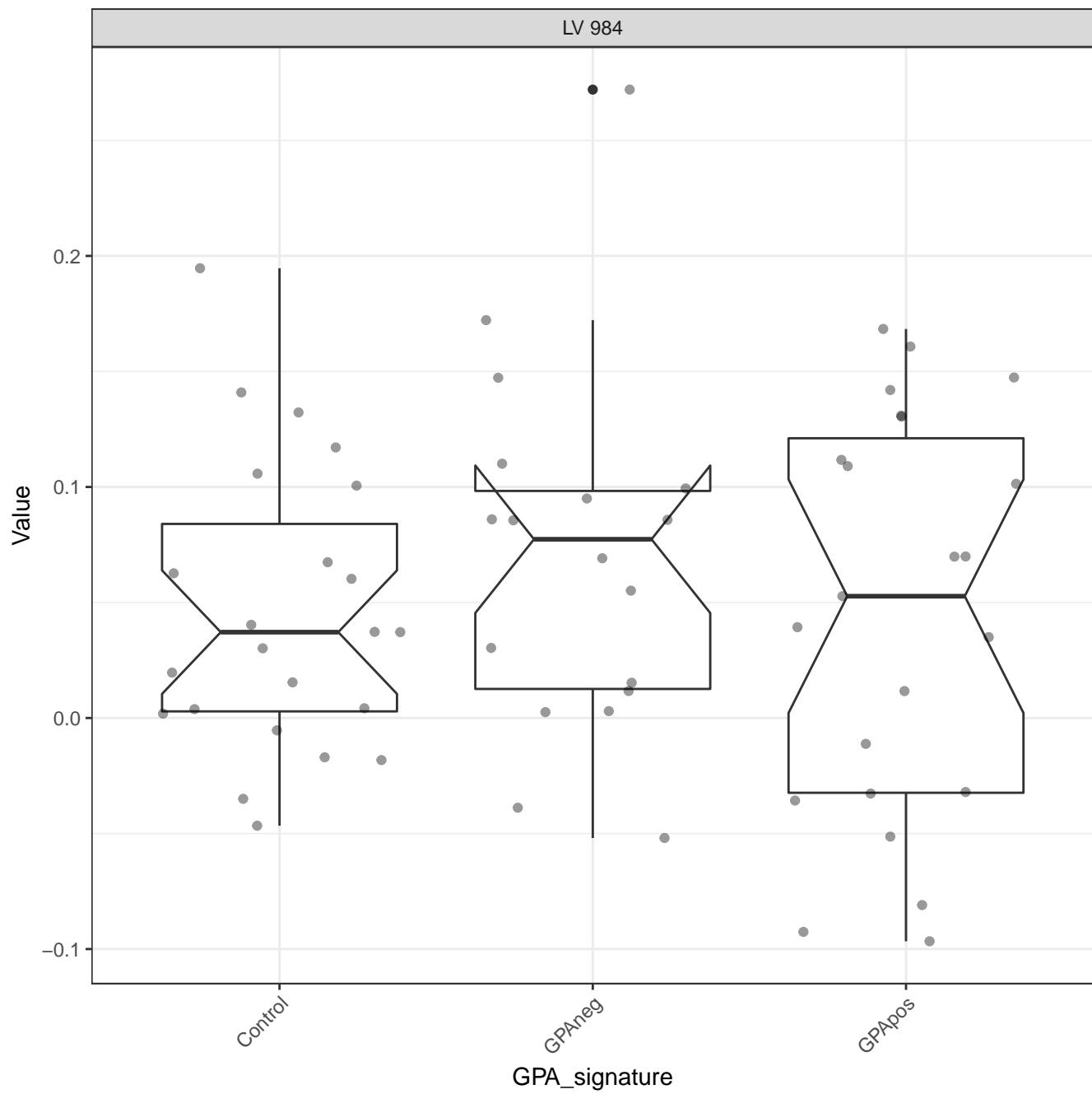
## LV 982



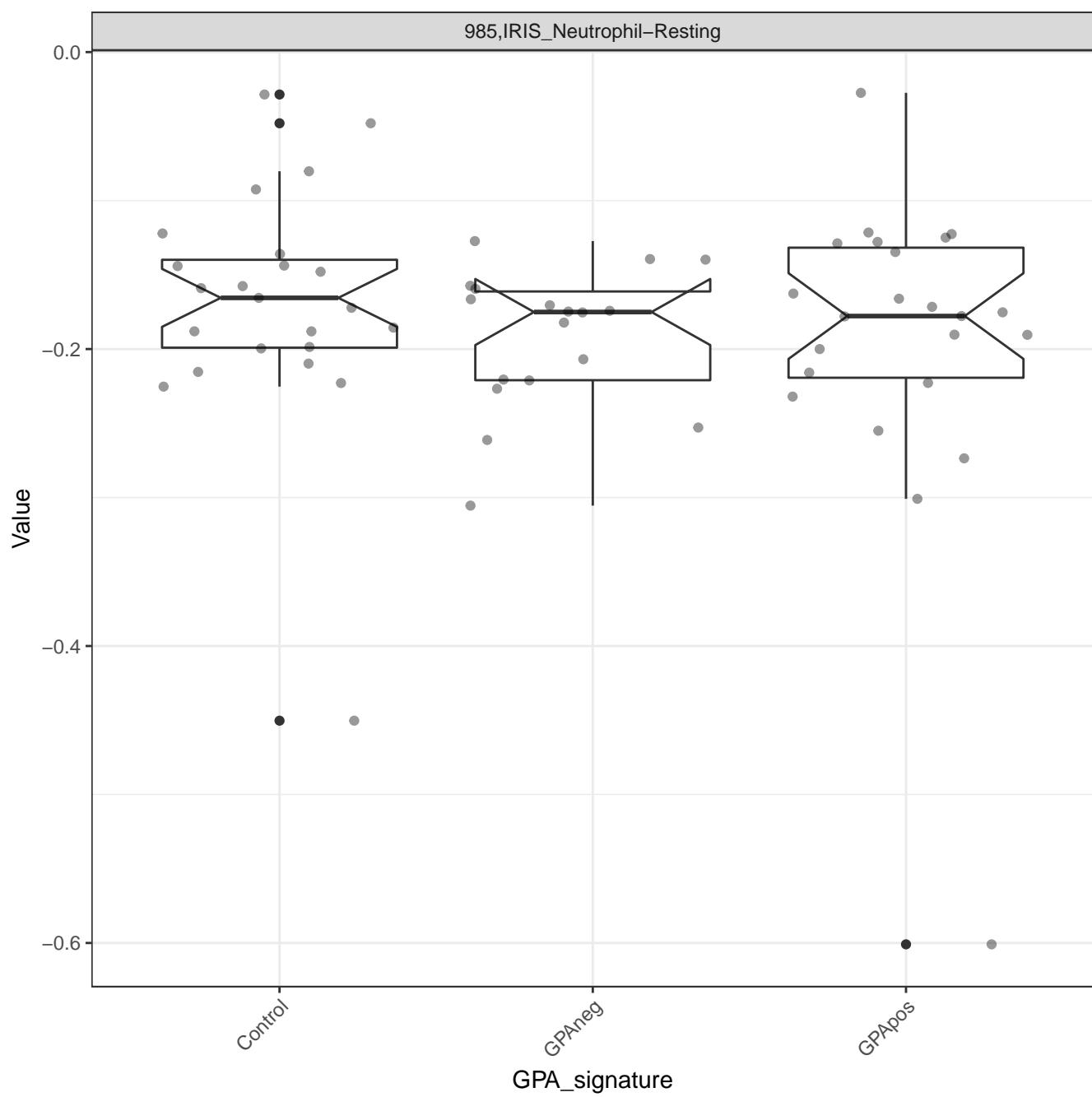
## LV 983



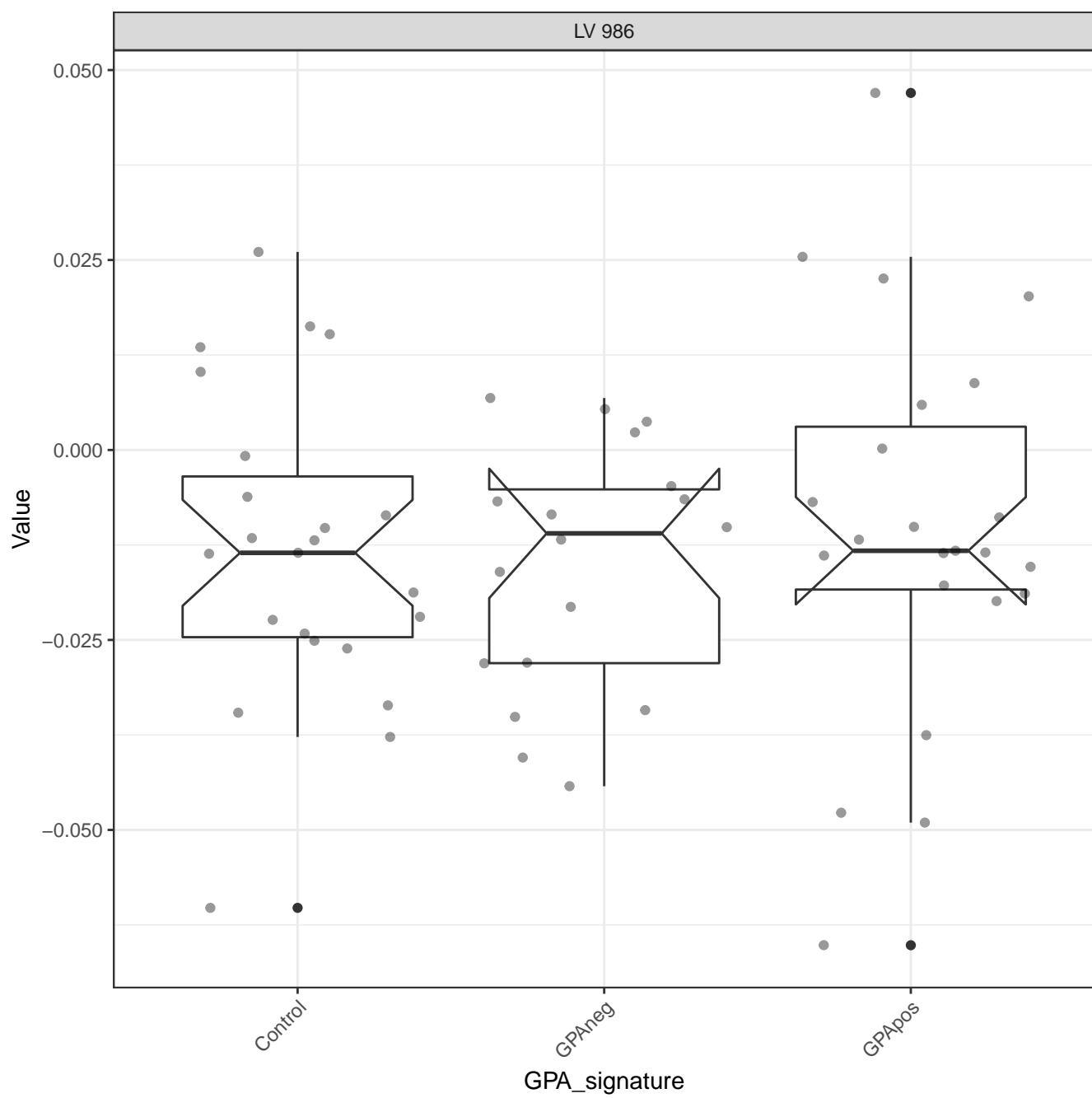
## LV 984



## 985,IRIS\_Neutrophil–Resting



LV 986



## LV 987

