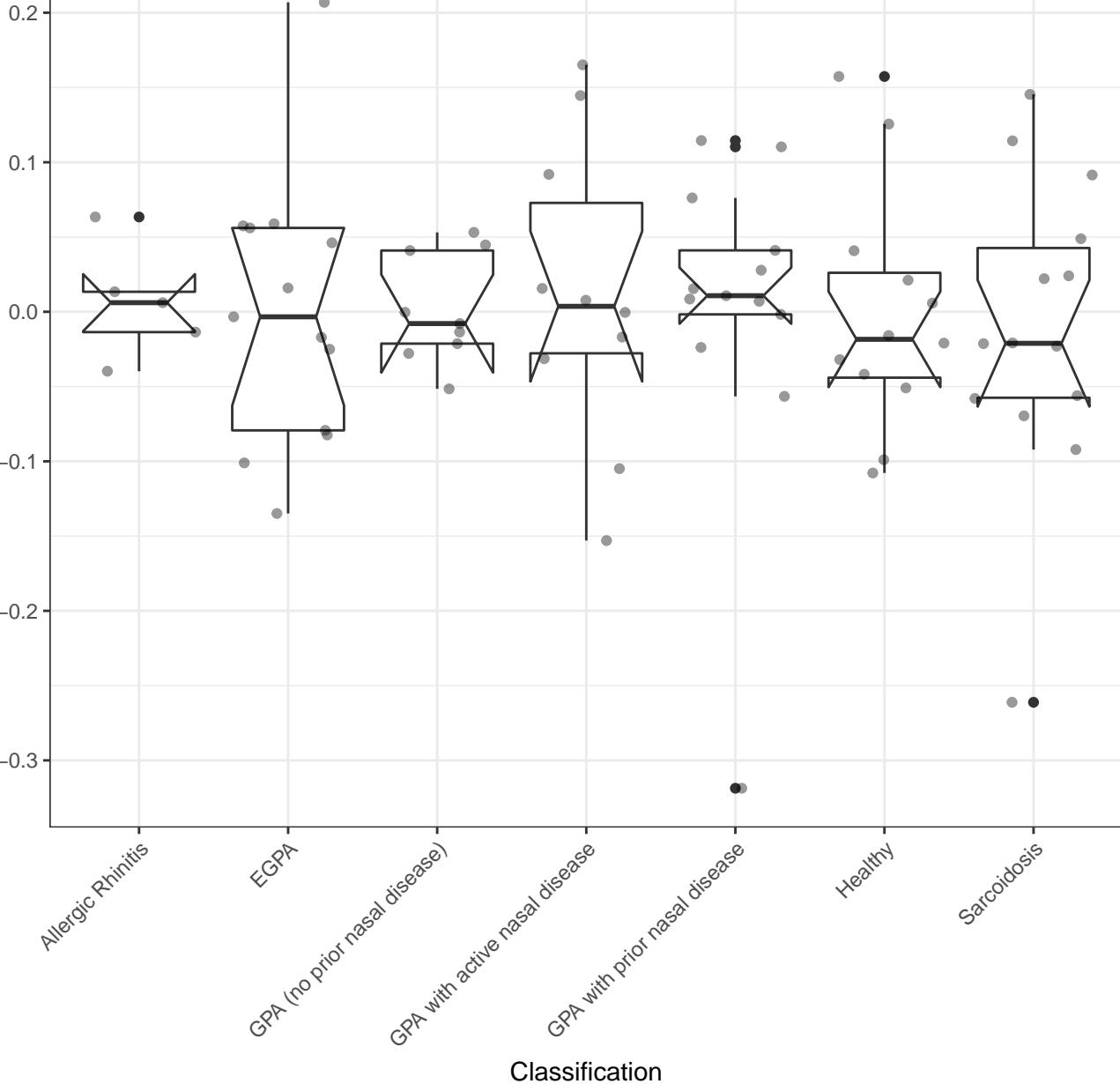


## 1,REACTOME\_MRNA\_SPLICING

Value



## 2,SVM Monocytes

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

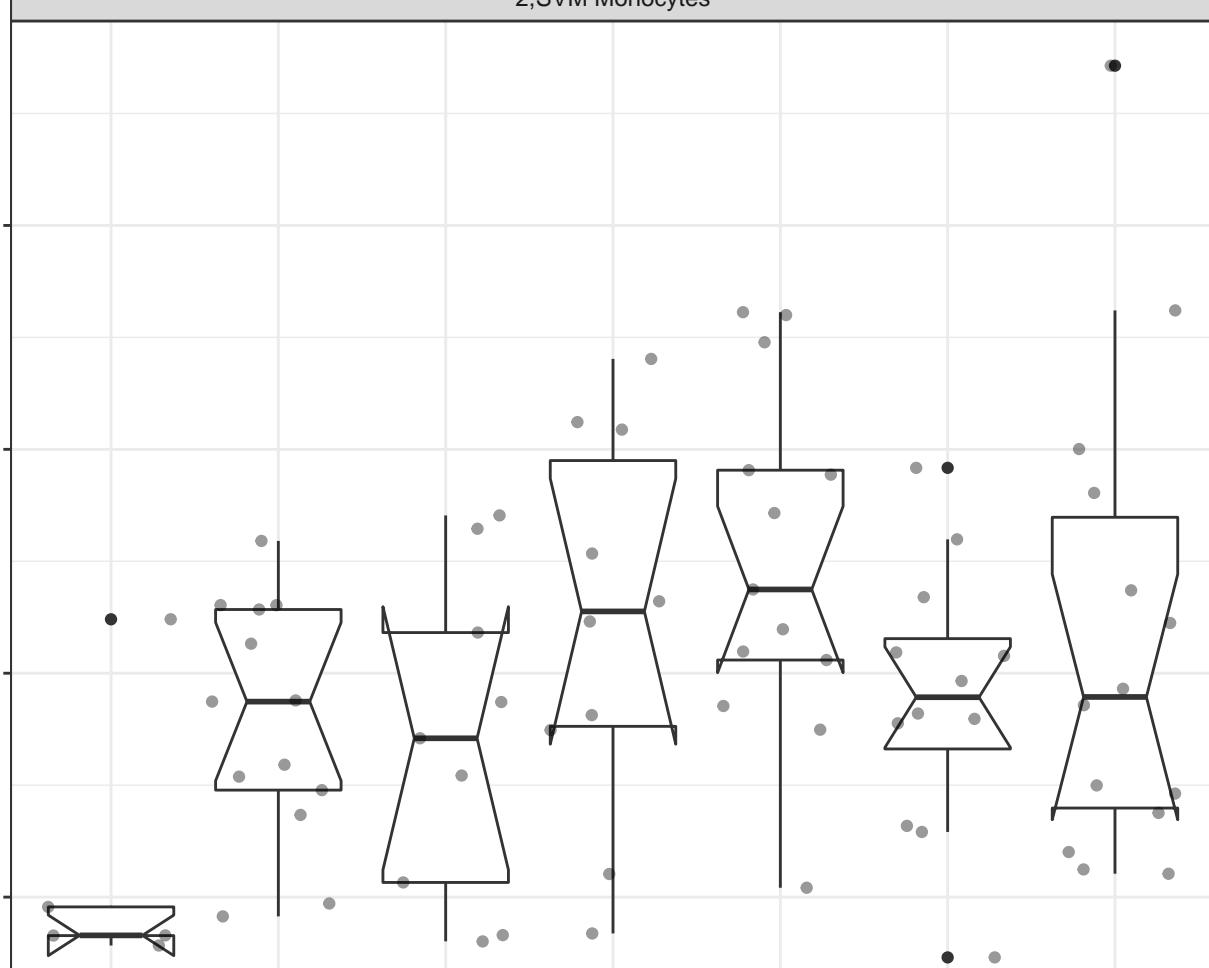
GPA with active nasal disease

GPA with prior nasal disease

Healthy

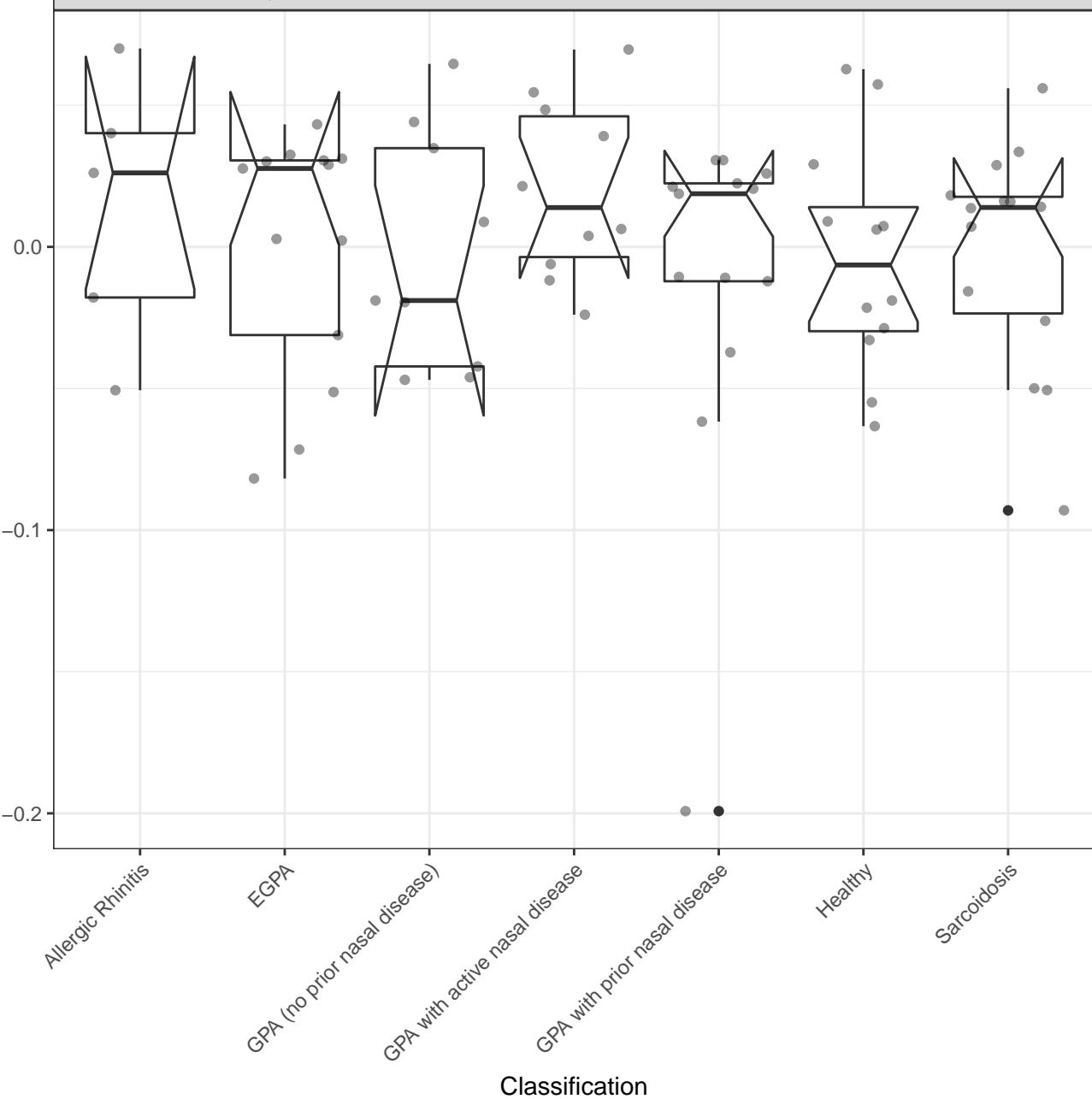
Sarcoidosis

Classification



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

Value



## 4,REACTOME\_NEURONAL\_SYSTEM

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

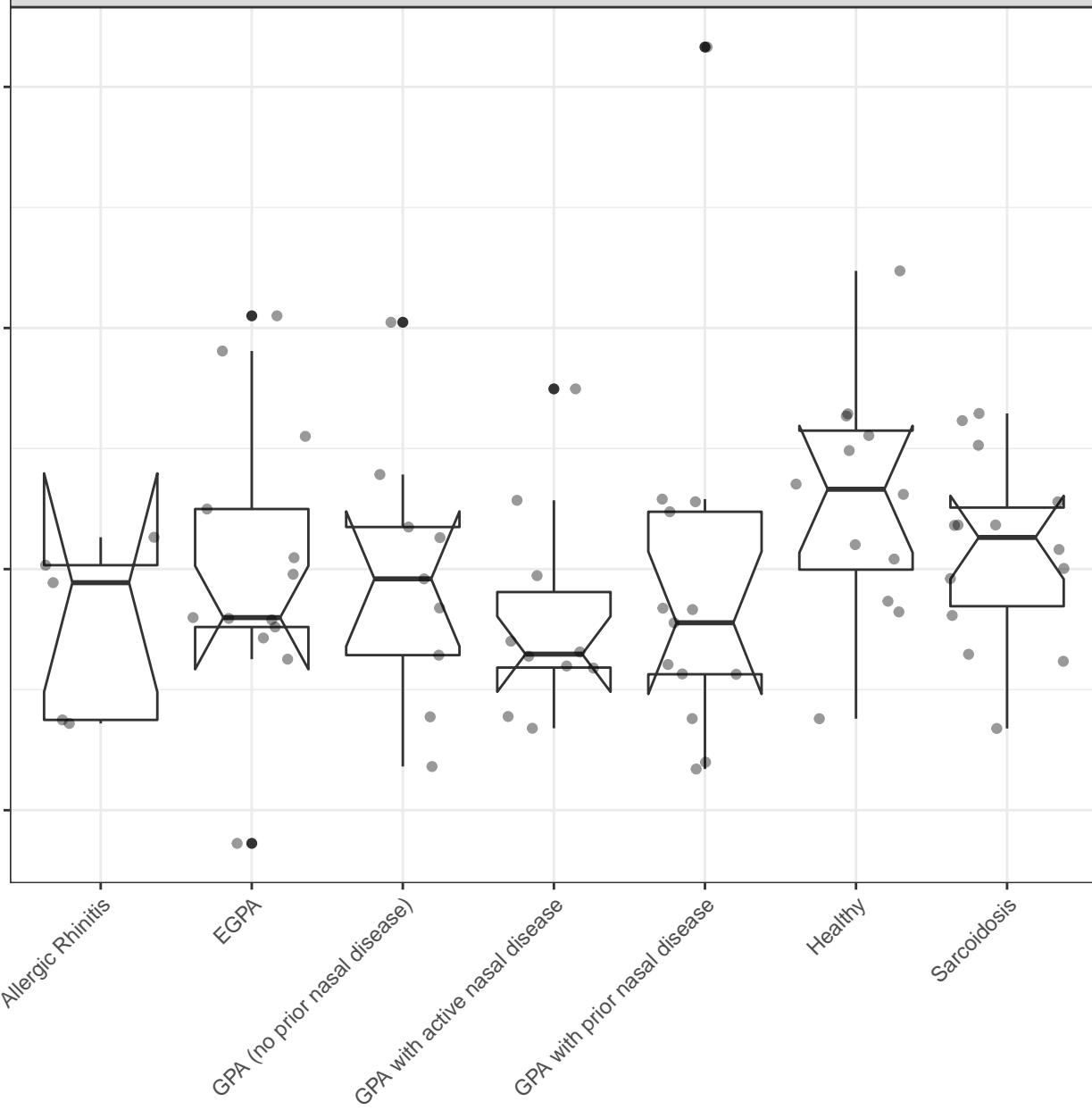
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



LV 5

Value

0.15

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 6

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 7,IRIS\_Neutrophil–Resting

Value

0.4

0.2

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 8,KEGG\_PPAR\_SIGNALING\_PATHWAY

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

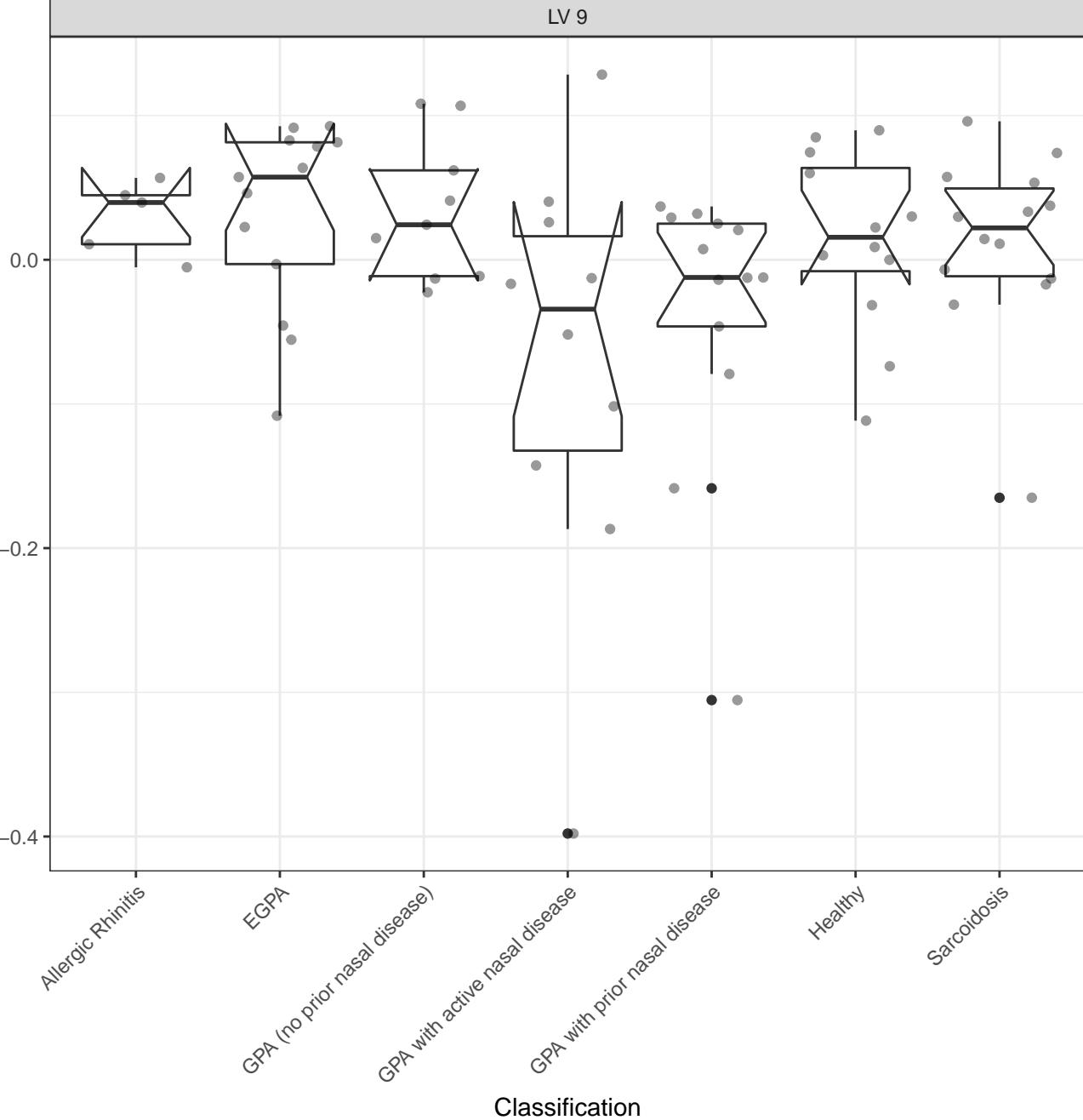
Healthy

Sarcoidosis

Classification

## LV 9

Value



## 10,SVM Macrophages M0

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

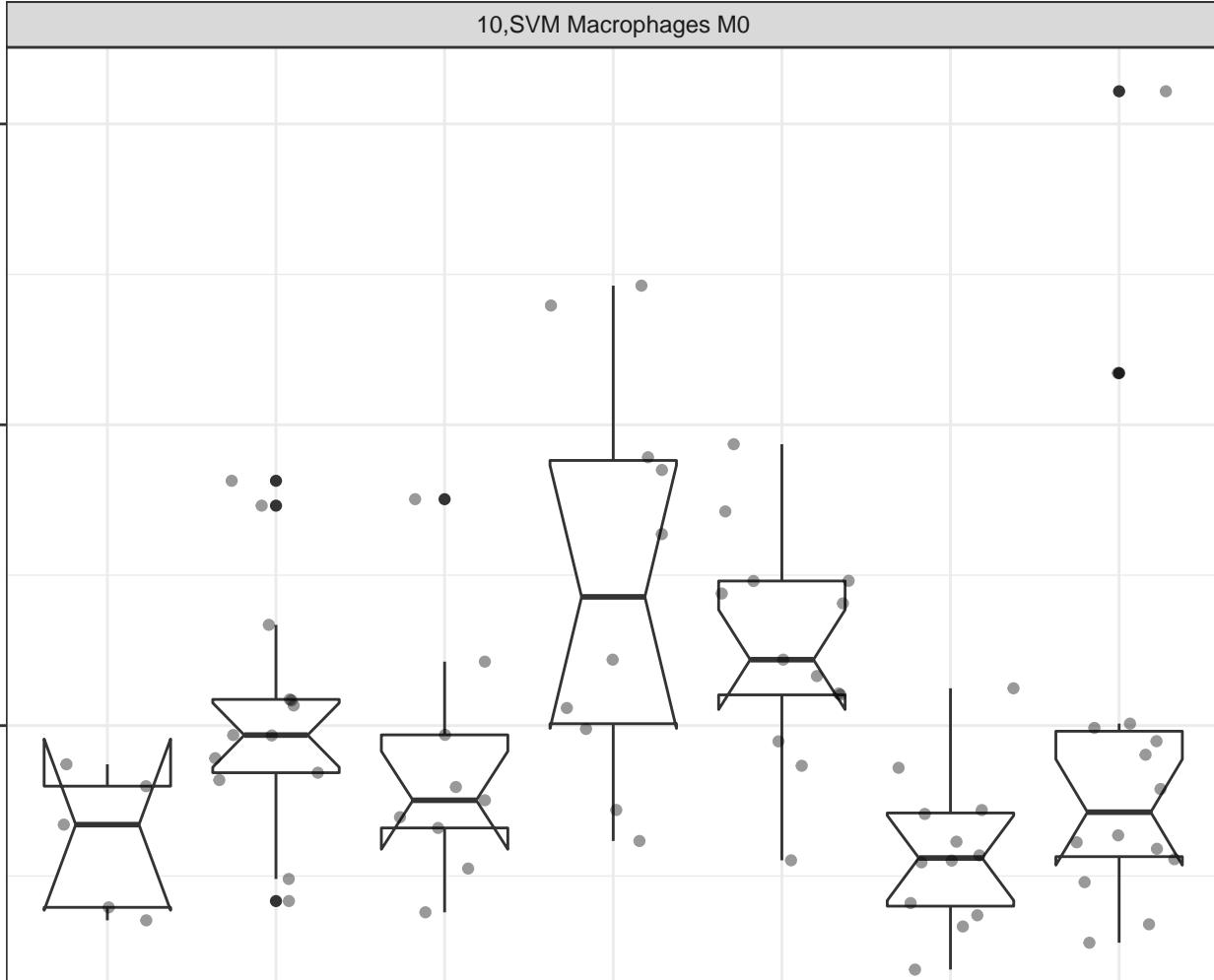
GPA with active nasal disease

GPA with prior nasal disease

Healthy

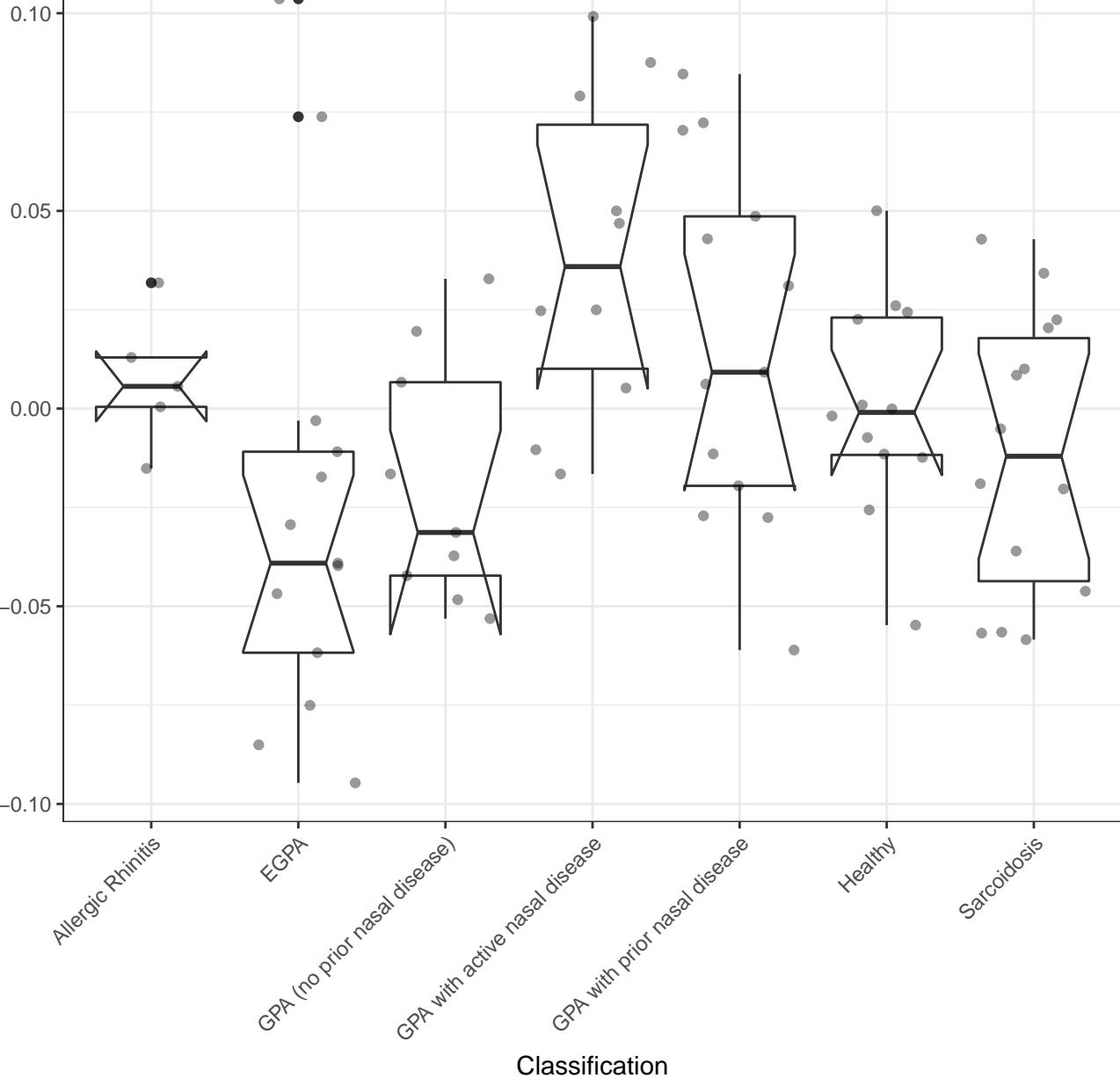
Sarcoidosis

Classification



## LV 11

Value



Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 13,REACTOME\_GLUCOSE\_METABOLISM

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

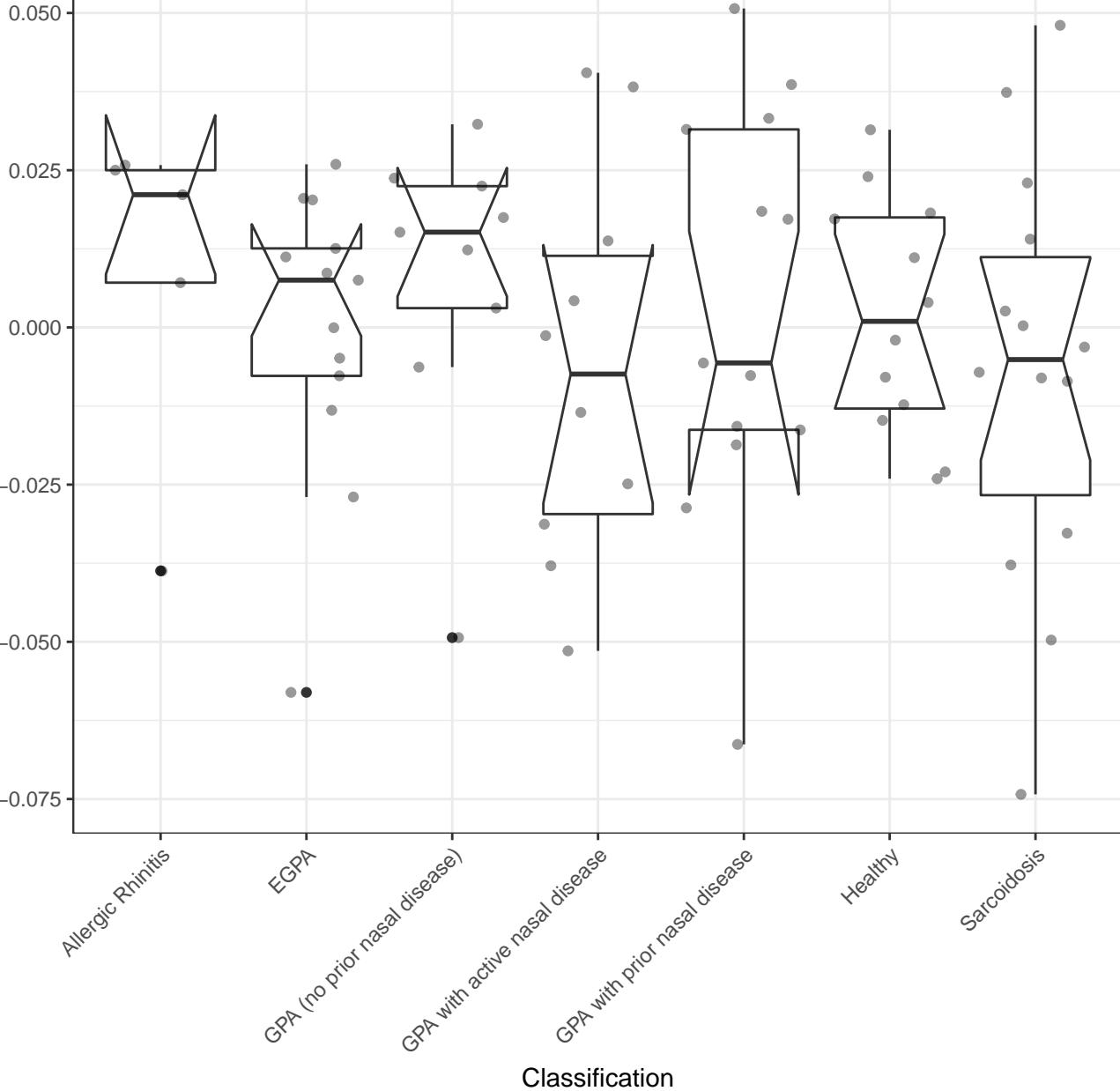
Healthy

Sarcoidosis

Classification

## LV 14

Value



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 17,SVM NK cells resting

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

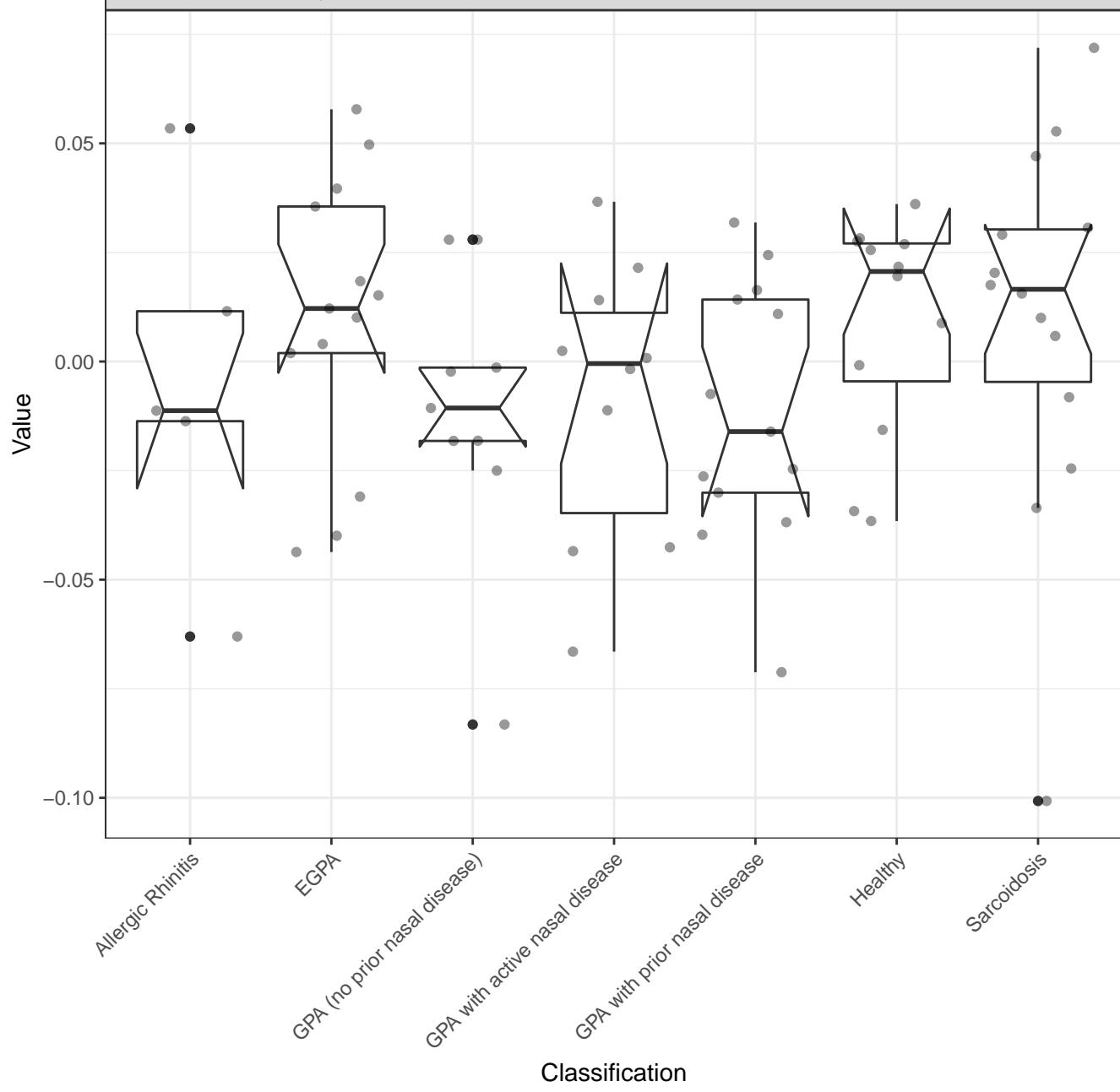
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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



Value

0.10  
0.05  
0.00  
-0.05  
-0.10  
-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

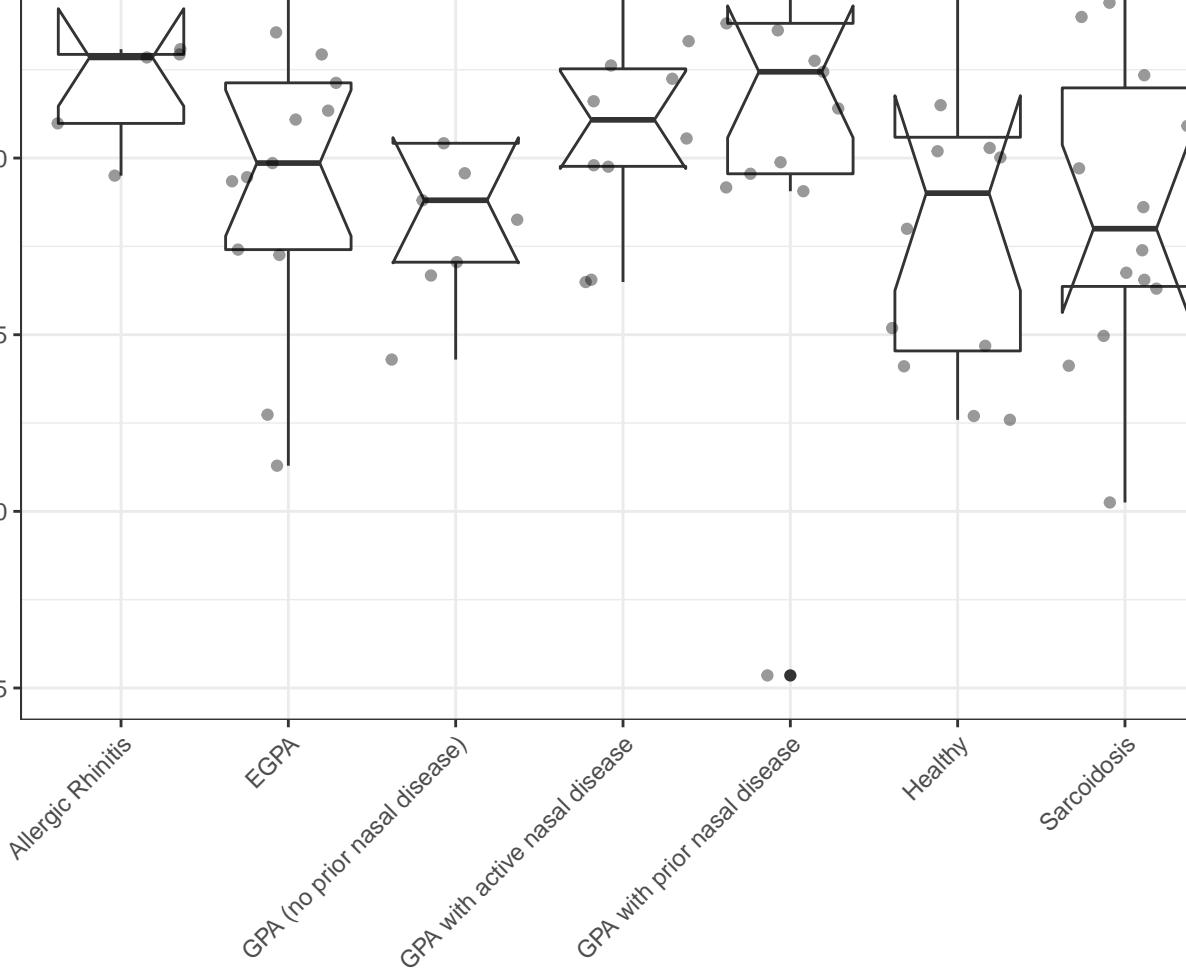
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



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

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

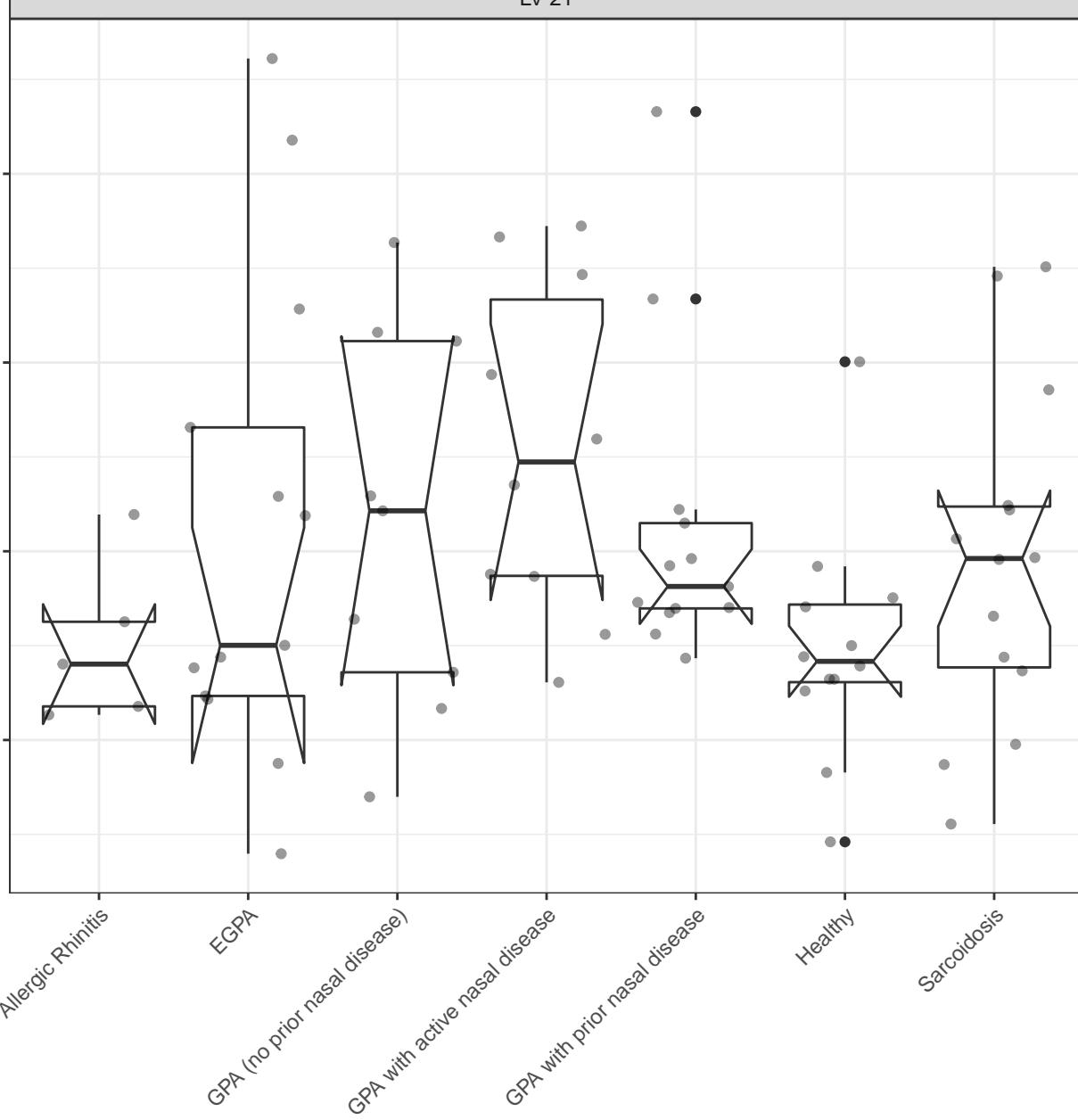
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 22,KEGG\_PPAR\_SIGNALING\_PATHWAY

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

0.05

0.00

-0.05

-0.10

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 24,PID\_DELTANP63PATHWAY

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

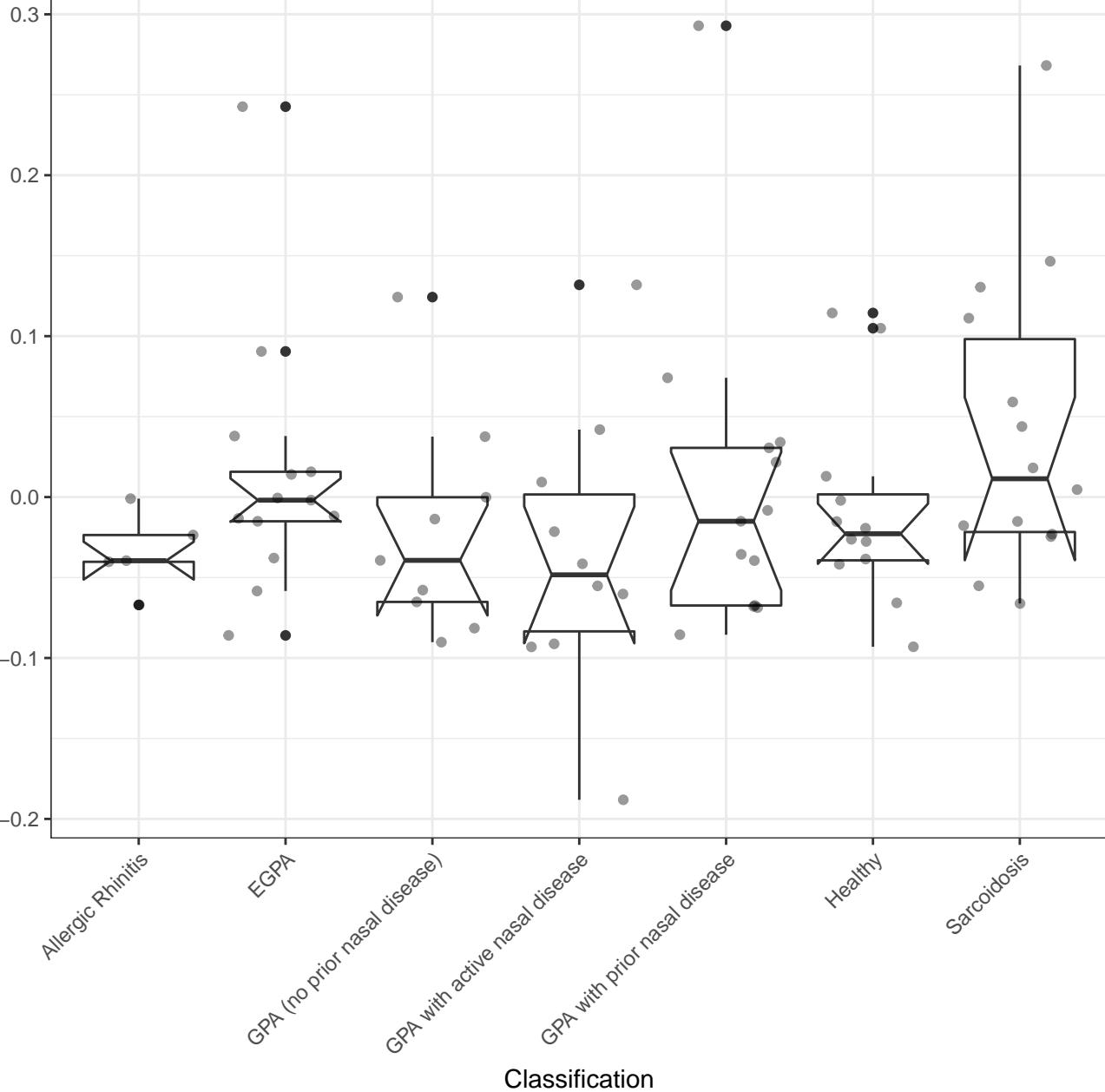
Healthy

Sarcoidosis

Classification

## 25,SVM Macrophages M1

Value



## 26,SVM Macrophages M2

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 27,REACTOME\_CELL\_JUNCTION\_ORGANIZATION

Value

0.4

0.2

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

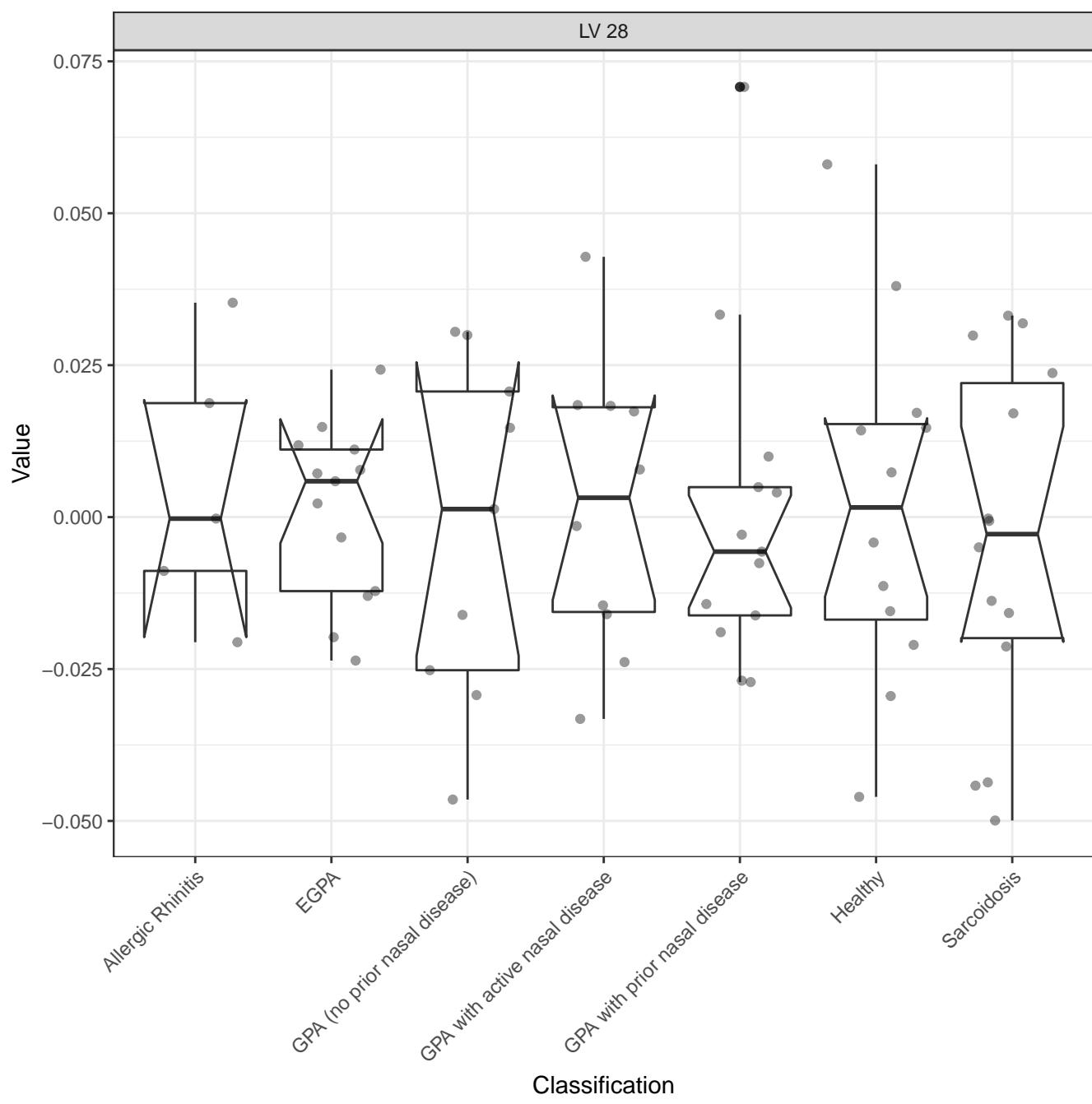
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 28



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

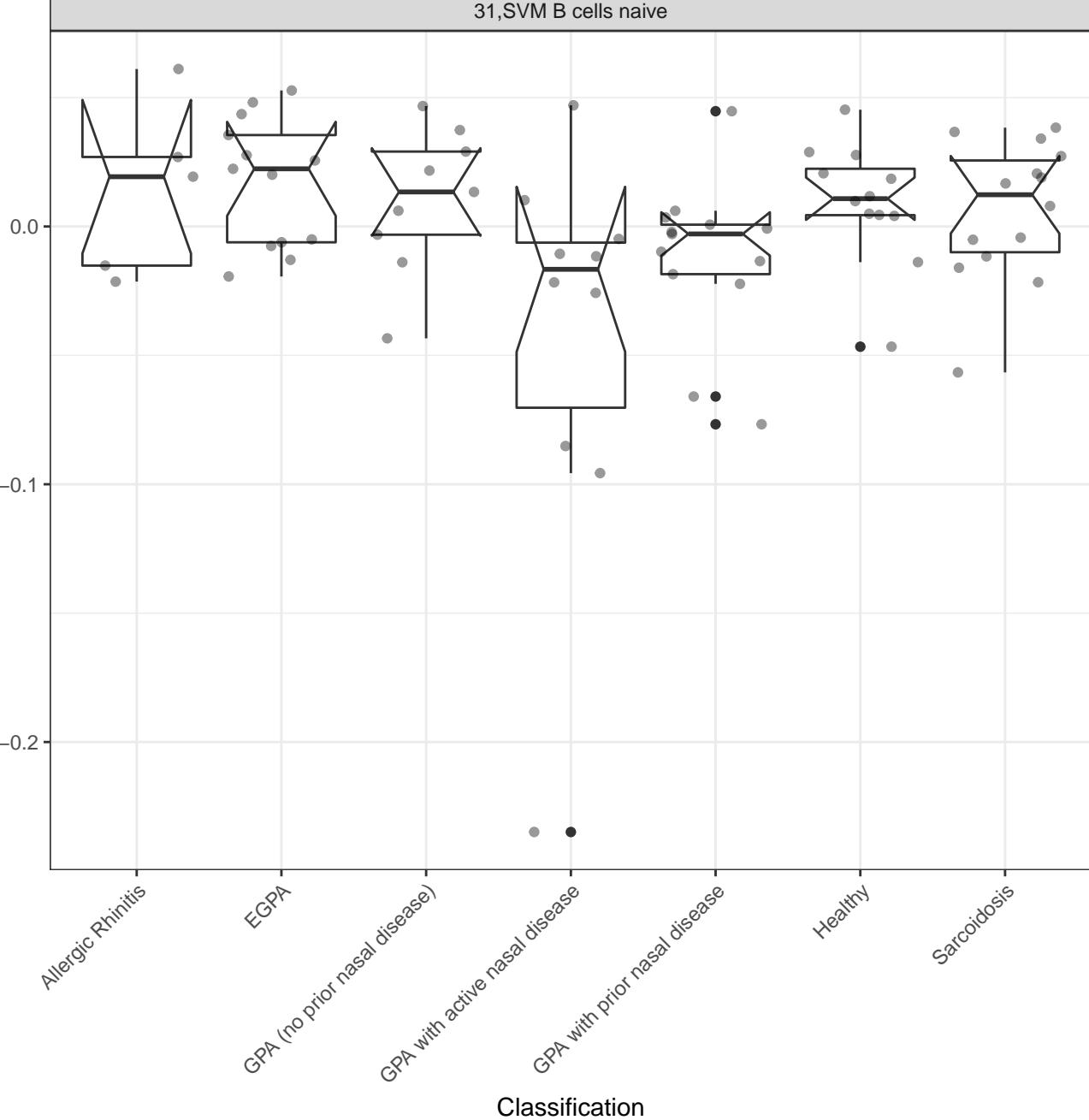
Healthy

Sarcoidosis

Classification

31,SVM B cells naive

Value



LV 32

Value

0.10  
0.05  
0.00  
-0.05  
-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

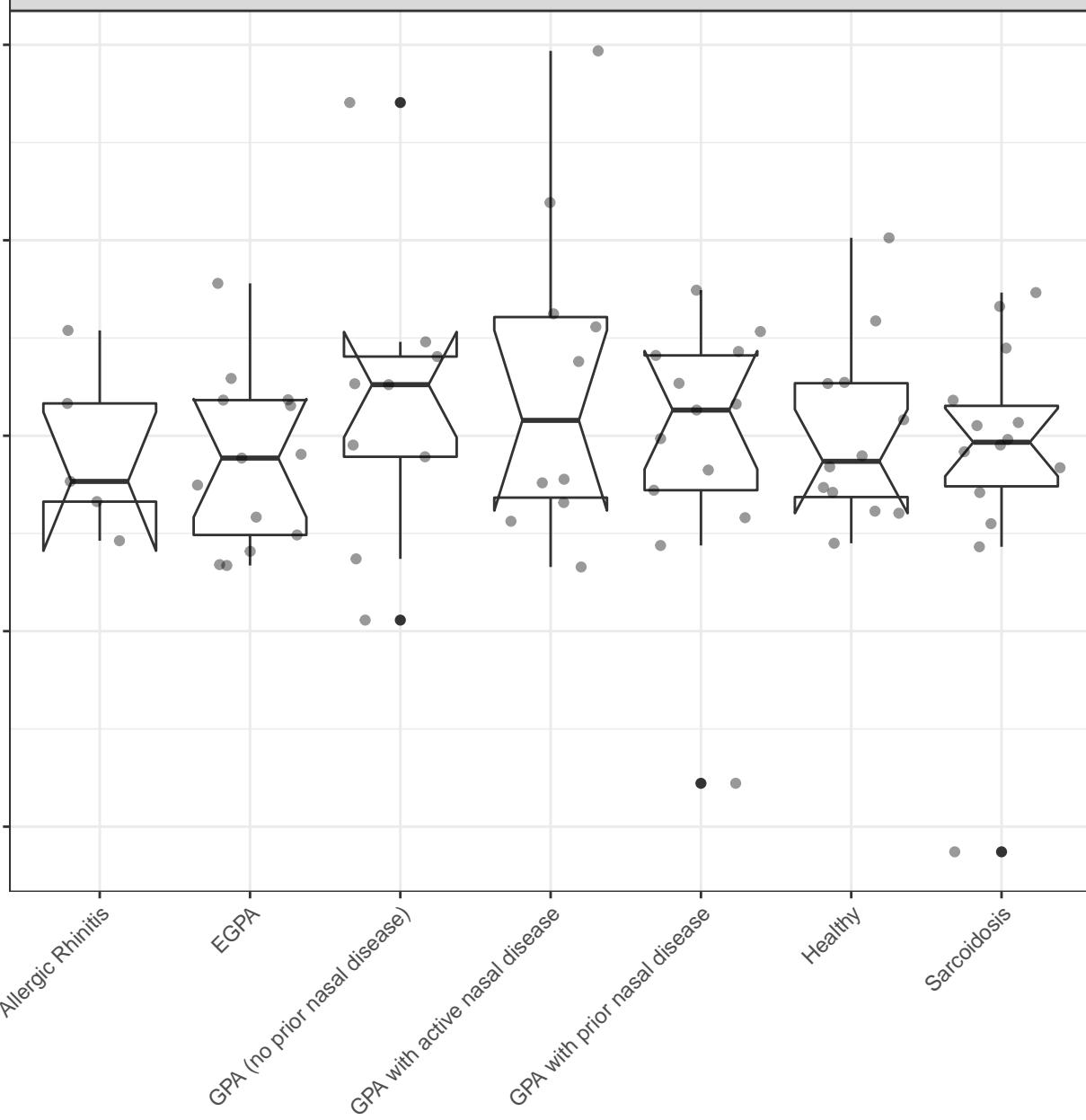
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.06

0.03

-0.03

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

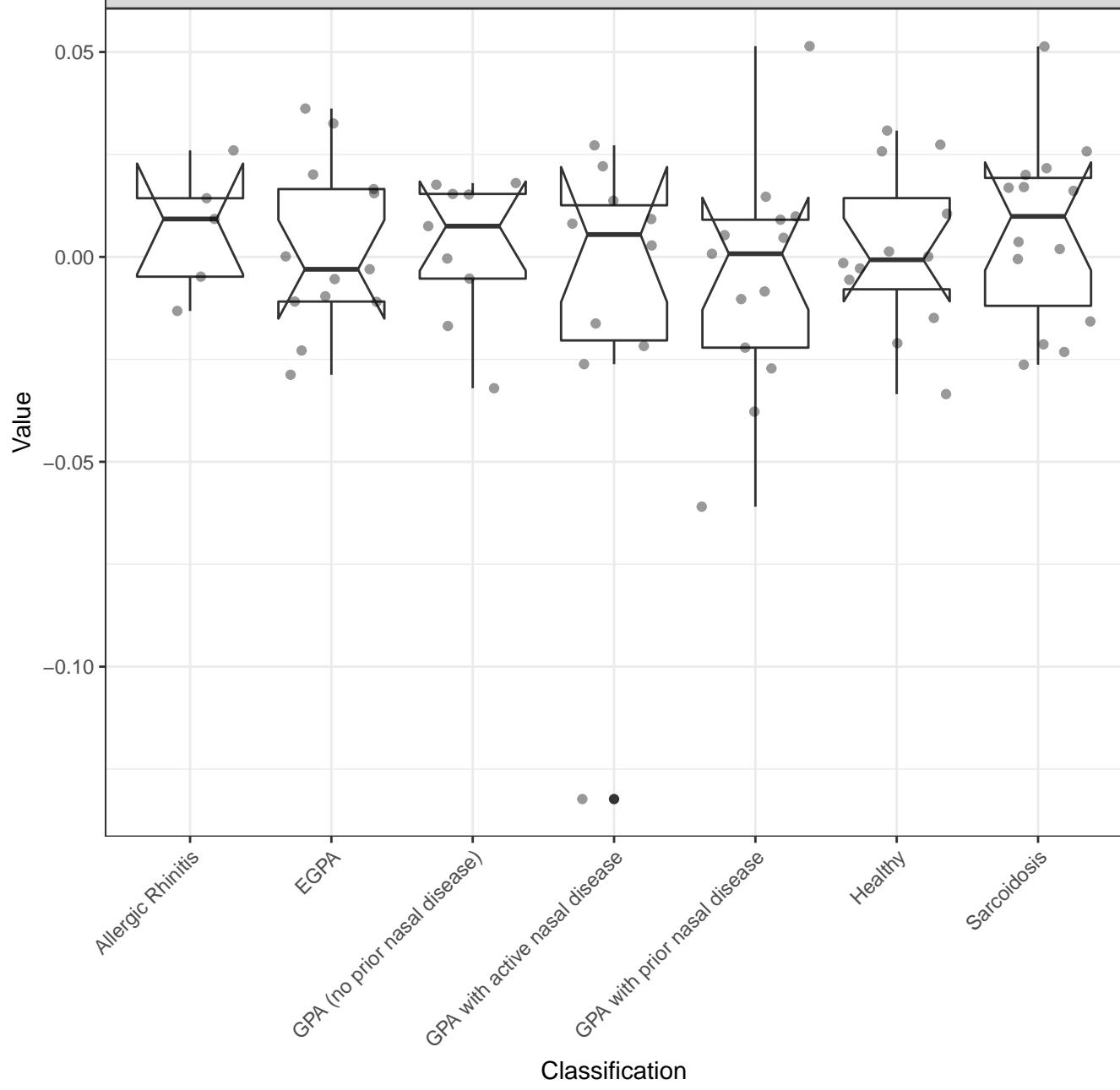
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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



Value

0.4

0.2

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

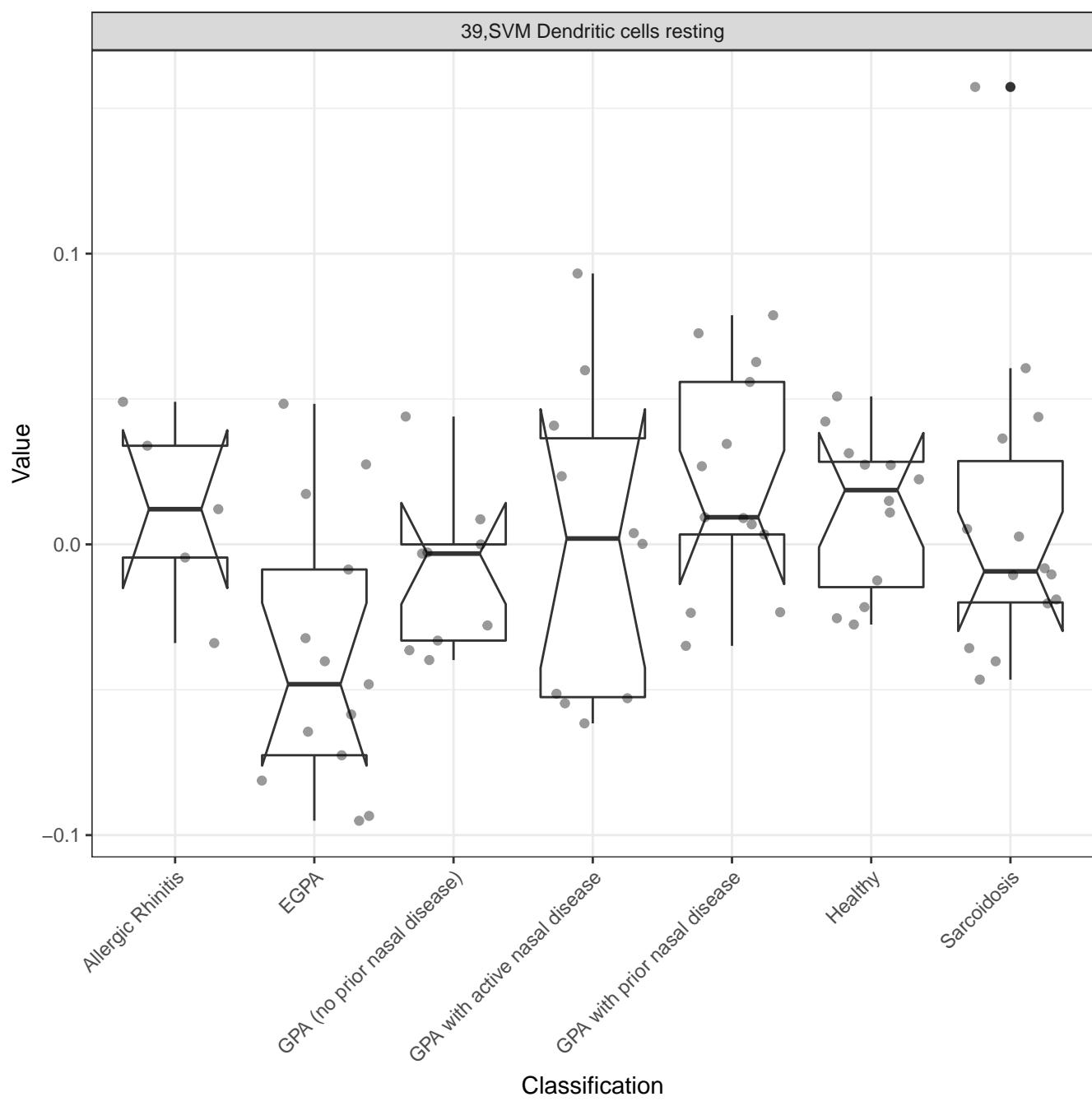
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 39,SVM Dendritic cells resting



LV 40

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

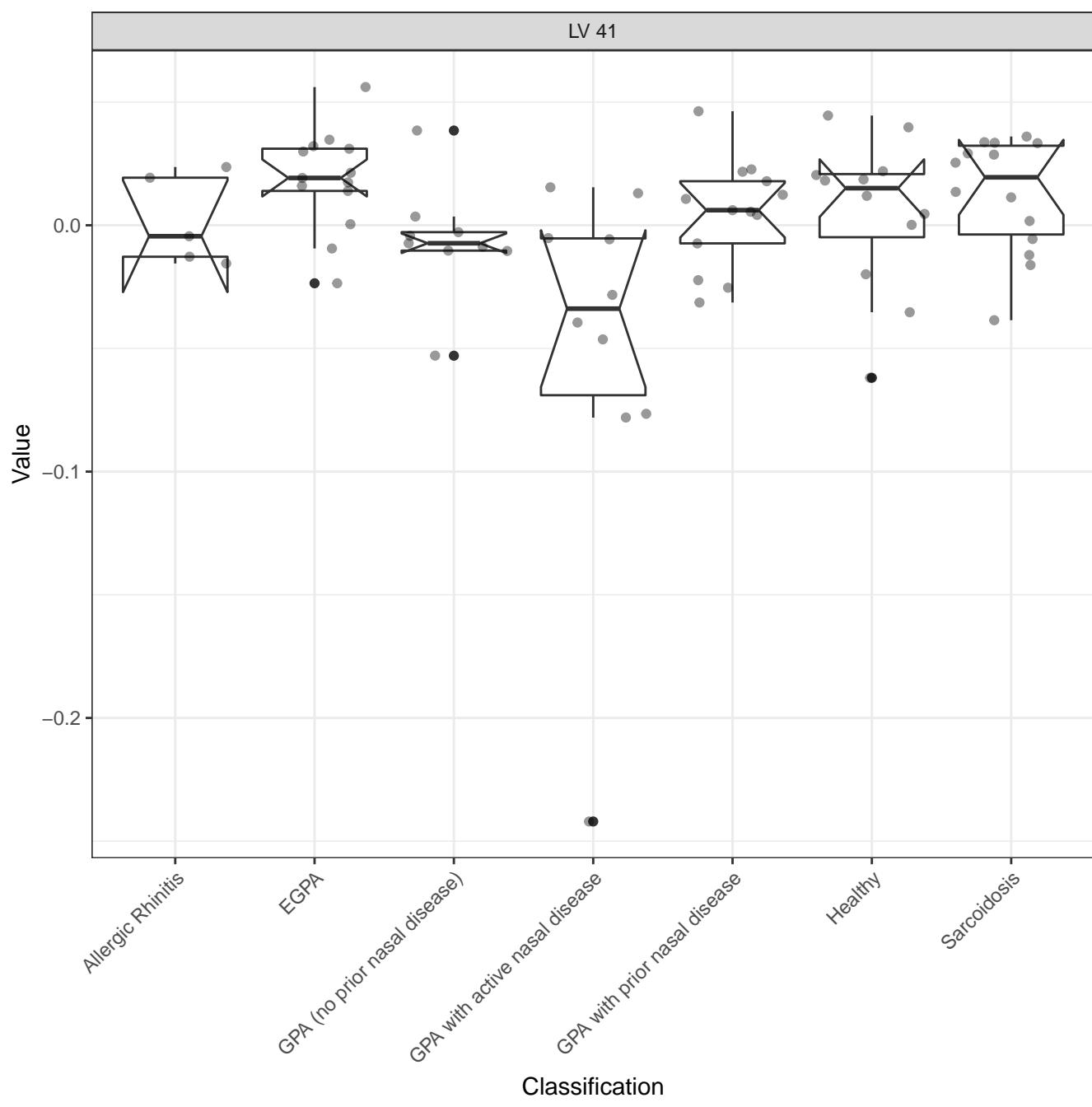
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 41



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

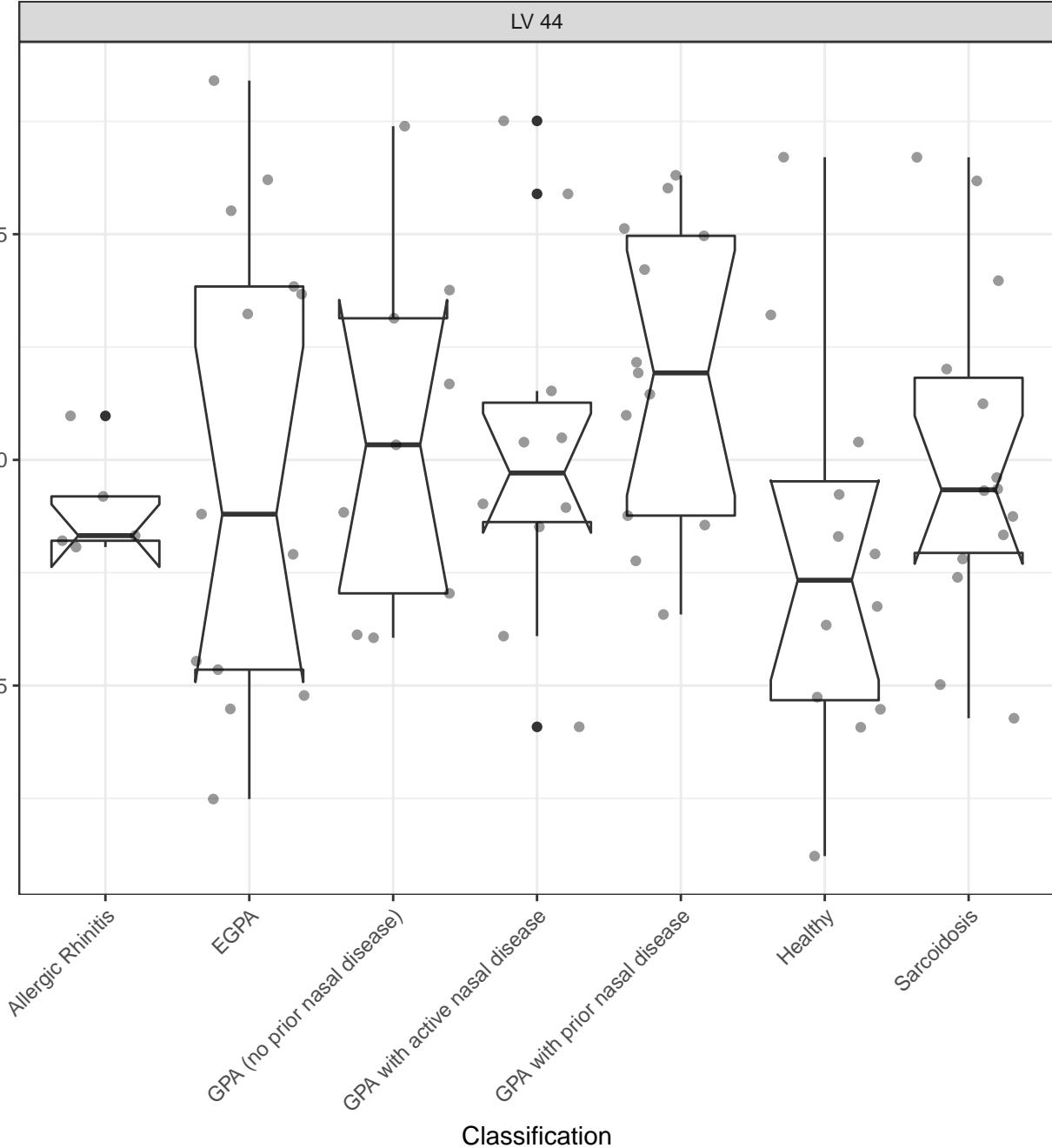
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



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

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

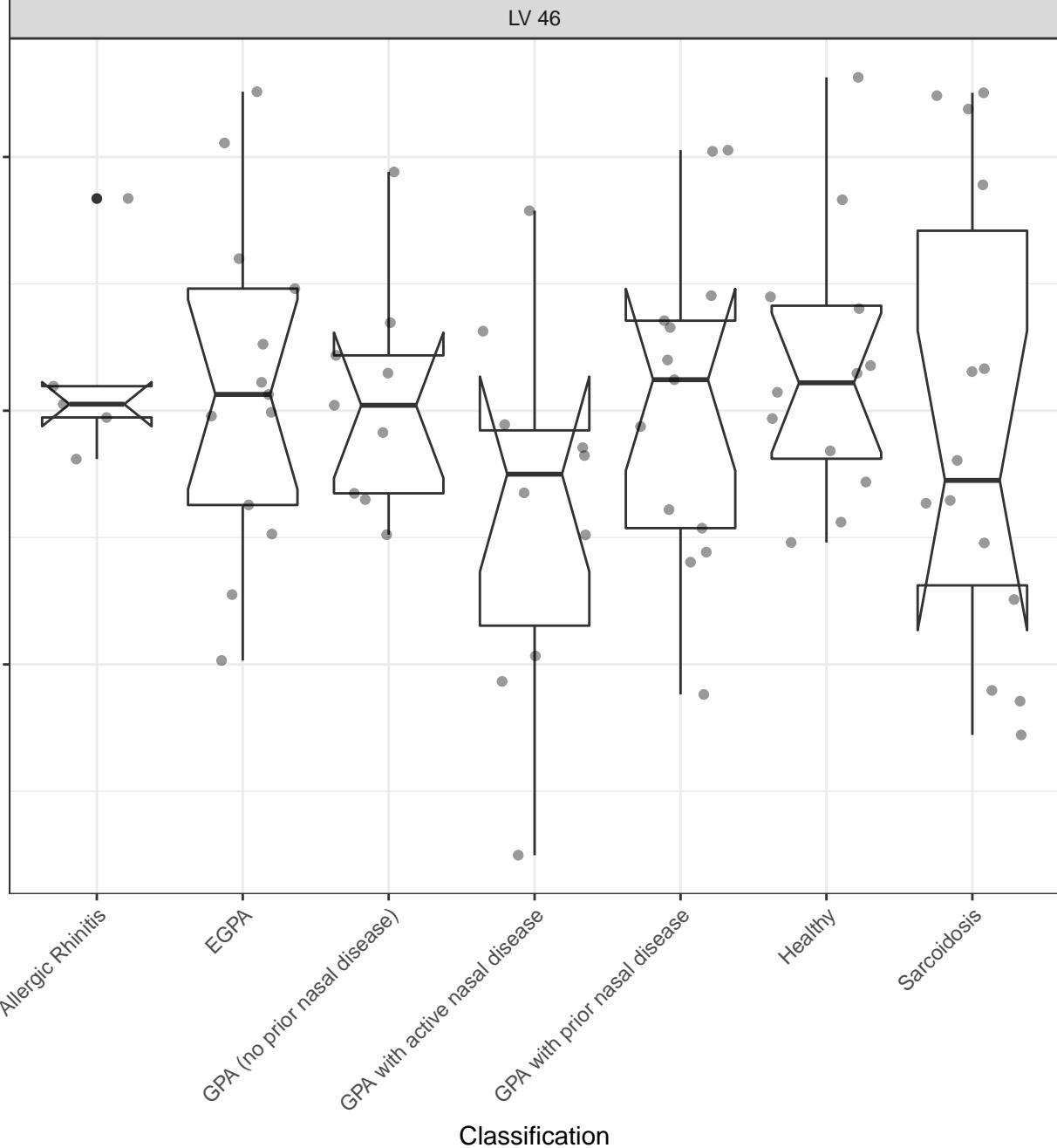
GPA with prior nasal disease

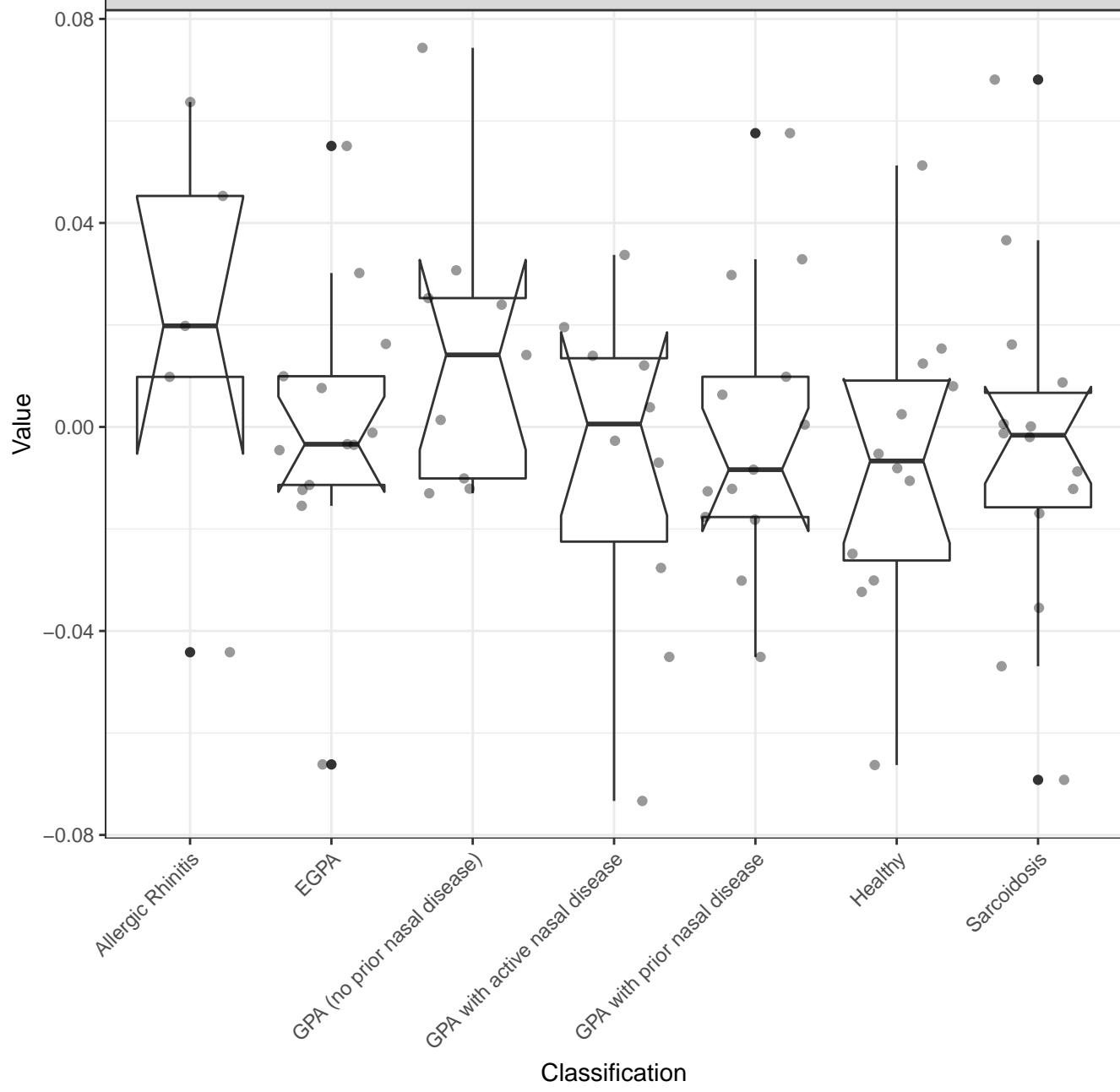
Healthy

Sarcoidosis

Classification

Value





## 48,MIPS\_RIBOSOME\_CYTOPLASMIC

Value

0.10

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

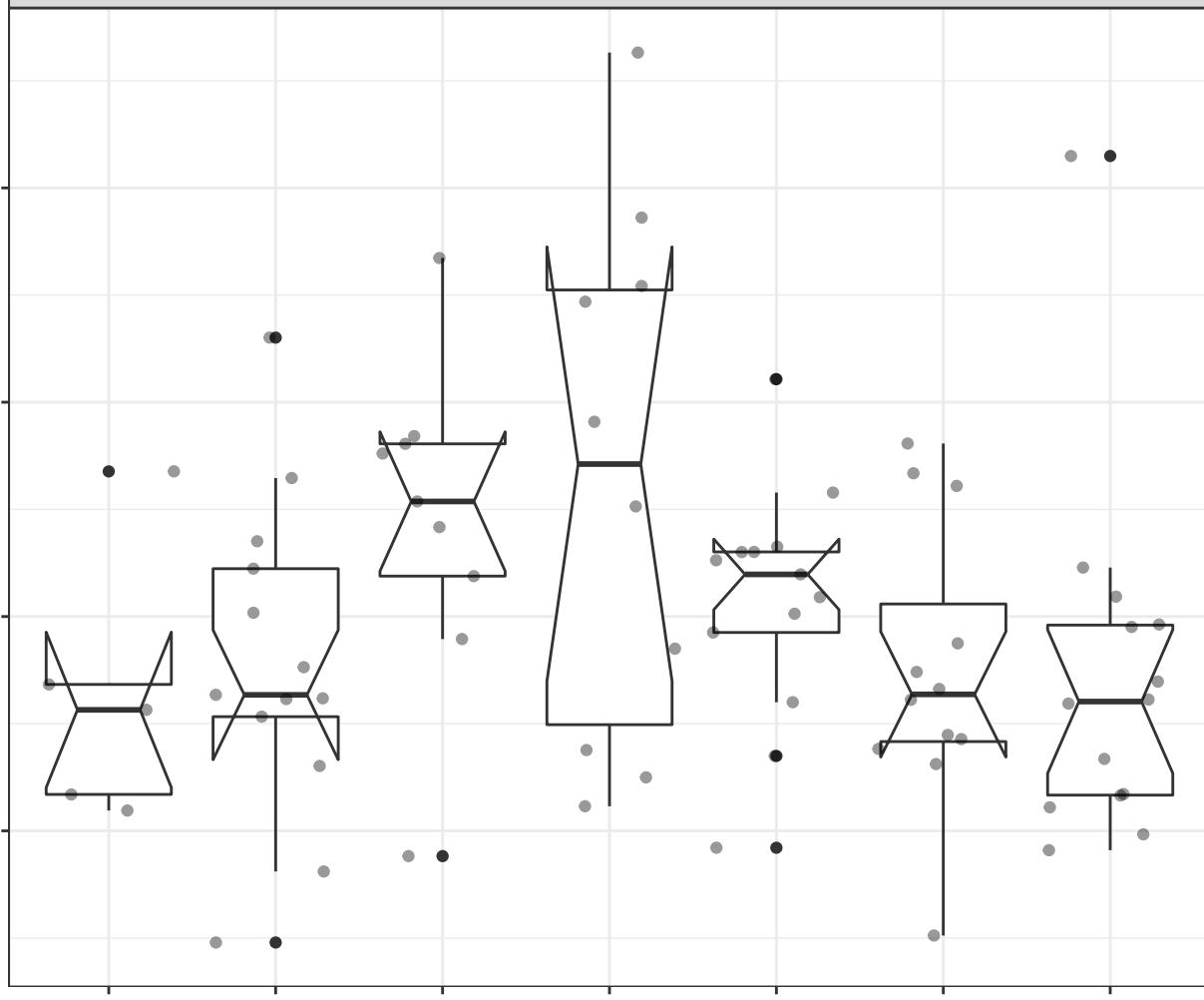
GPA with active nasal disease

GPA with prior nasal disease

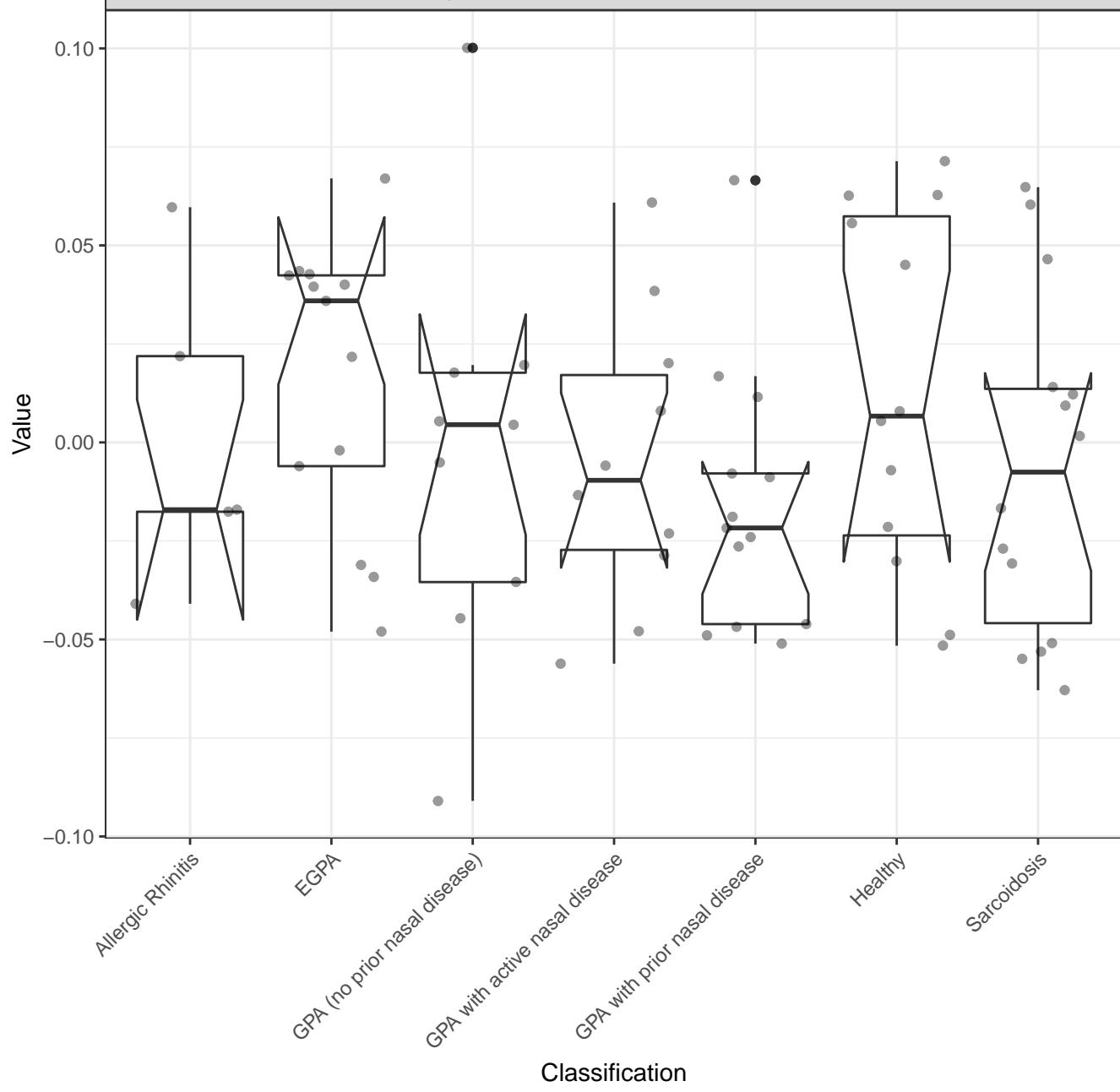
Healthy

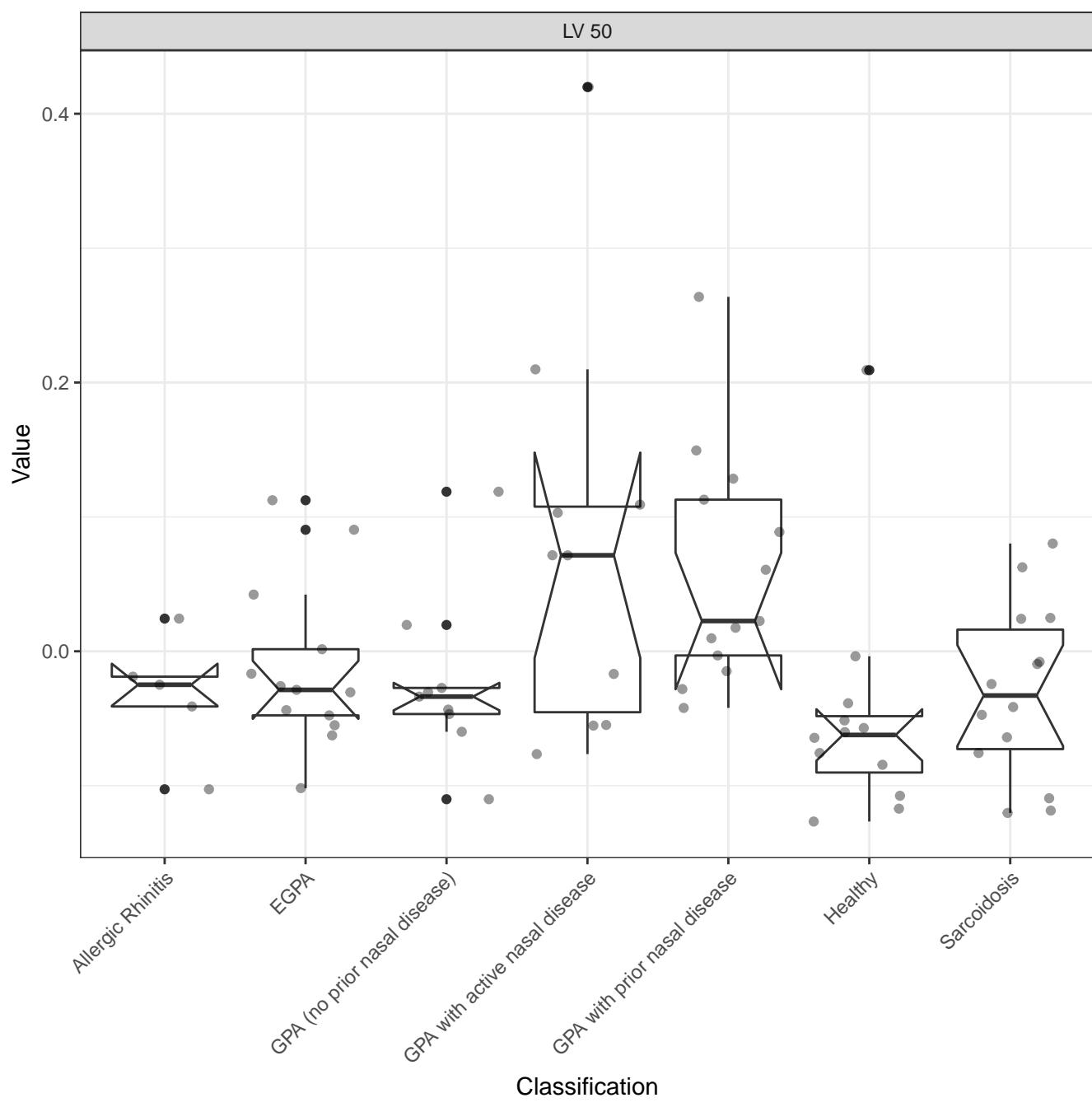
Sarcoidosis

Classification



## 49,KEGG\_DILATED\_CARDIOMYOPATHY





Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

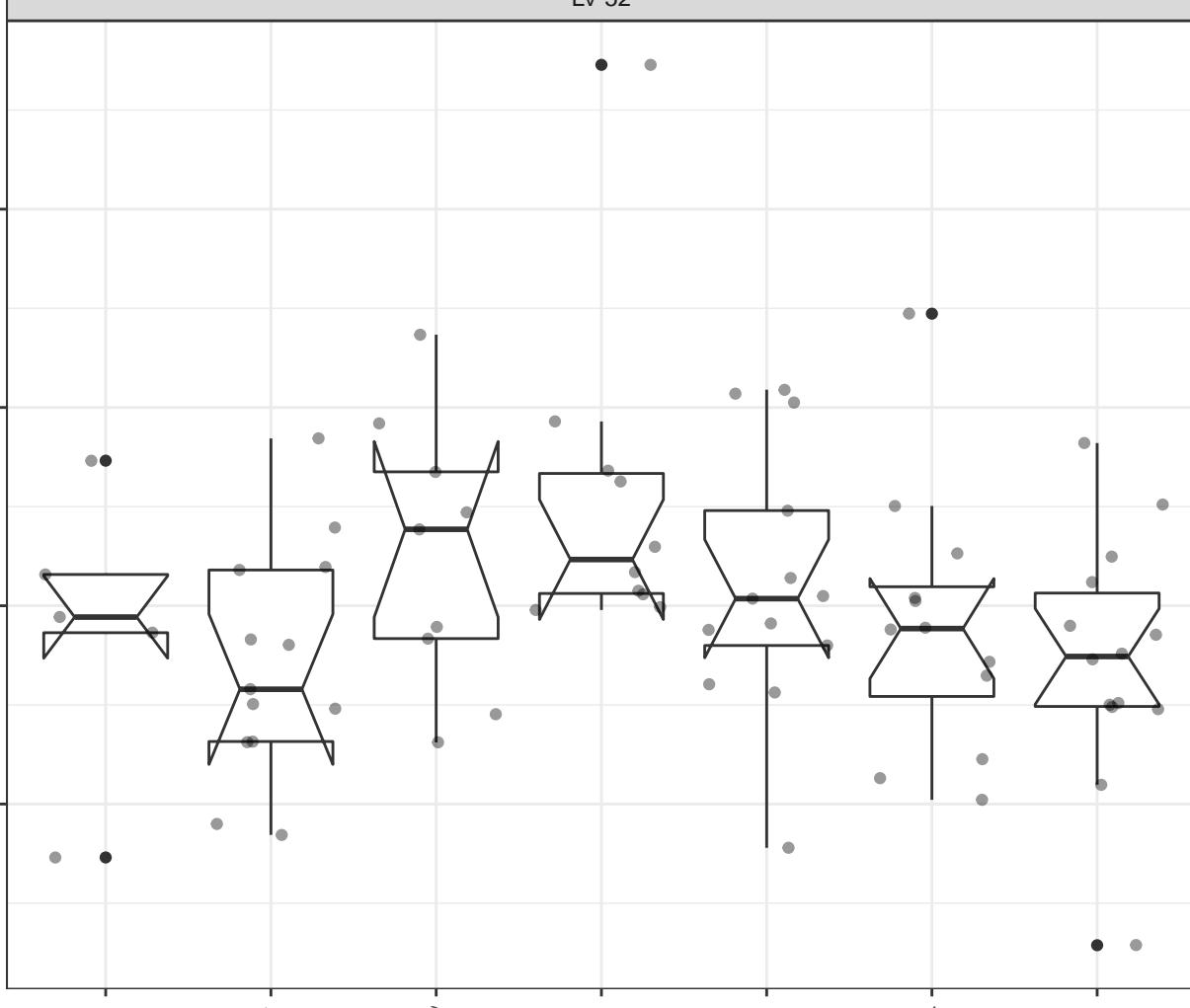
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

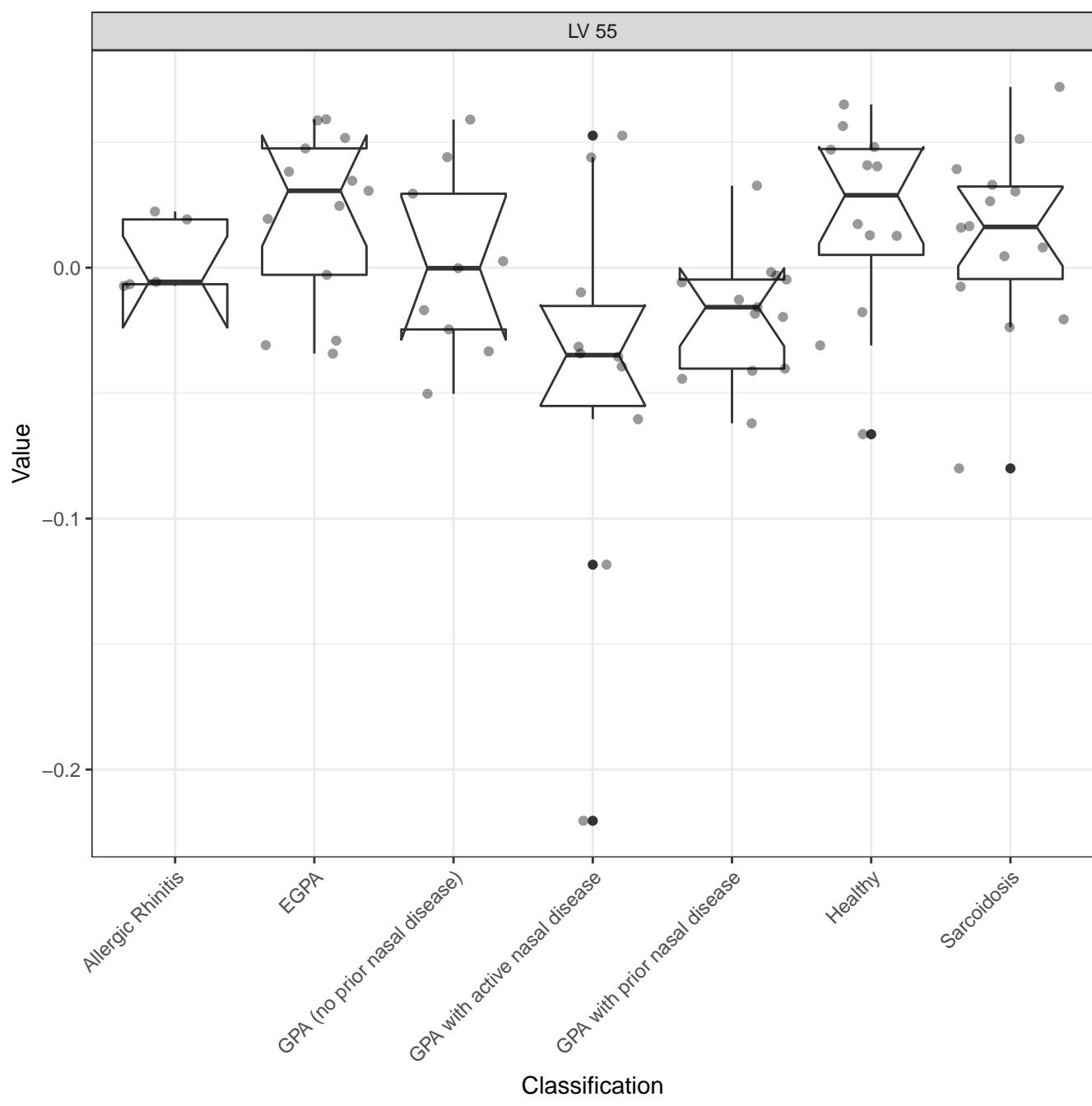
GPA with active nasal disease

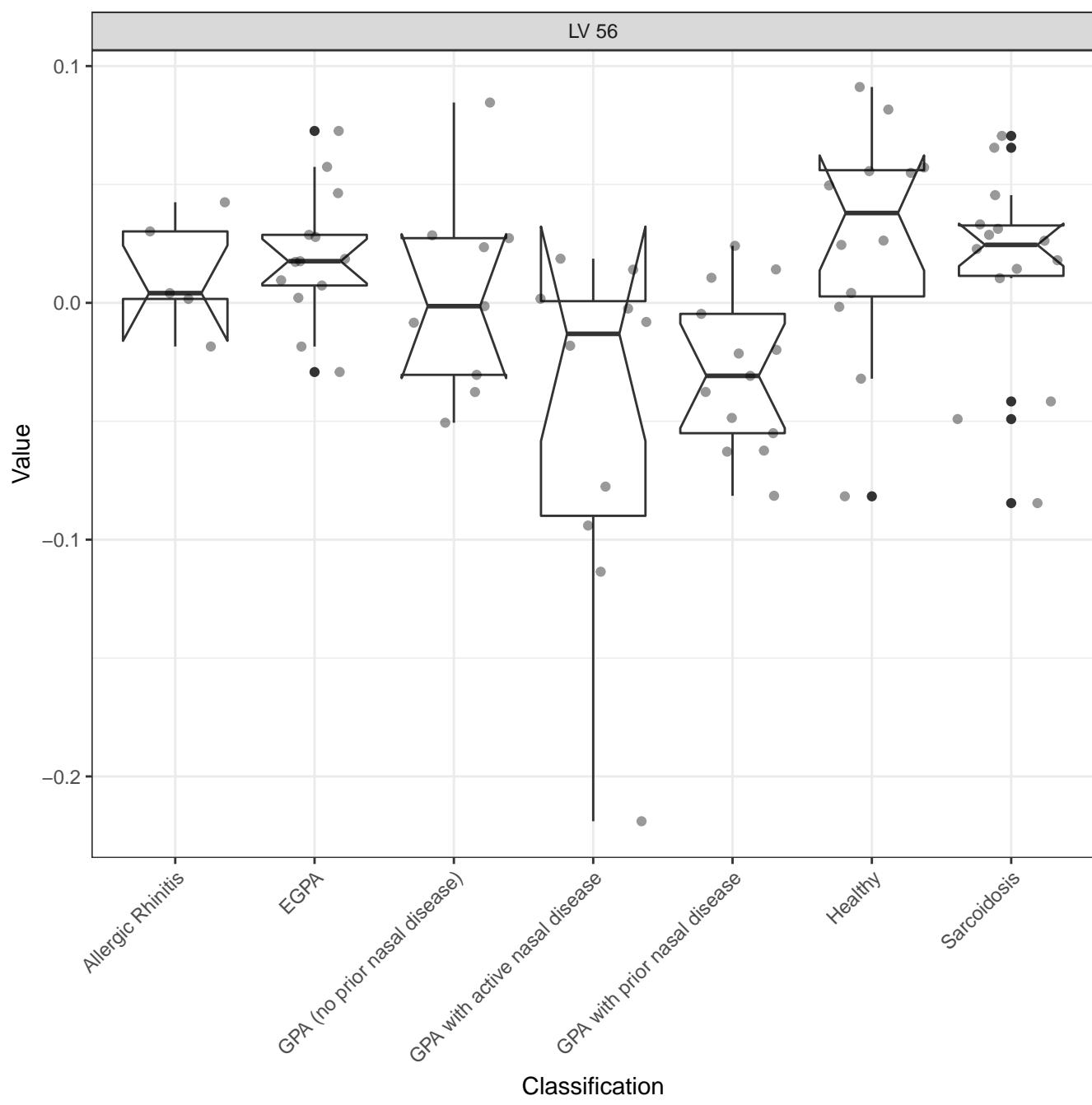
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





## 57,SVM T cells CD4 memory activated

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 58,SVM NK cells resting

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

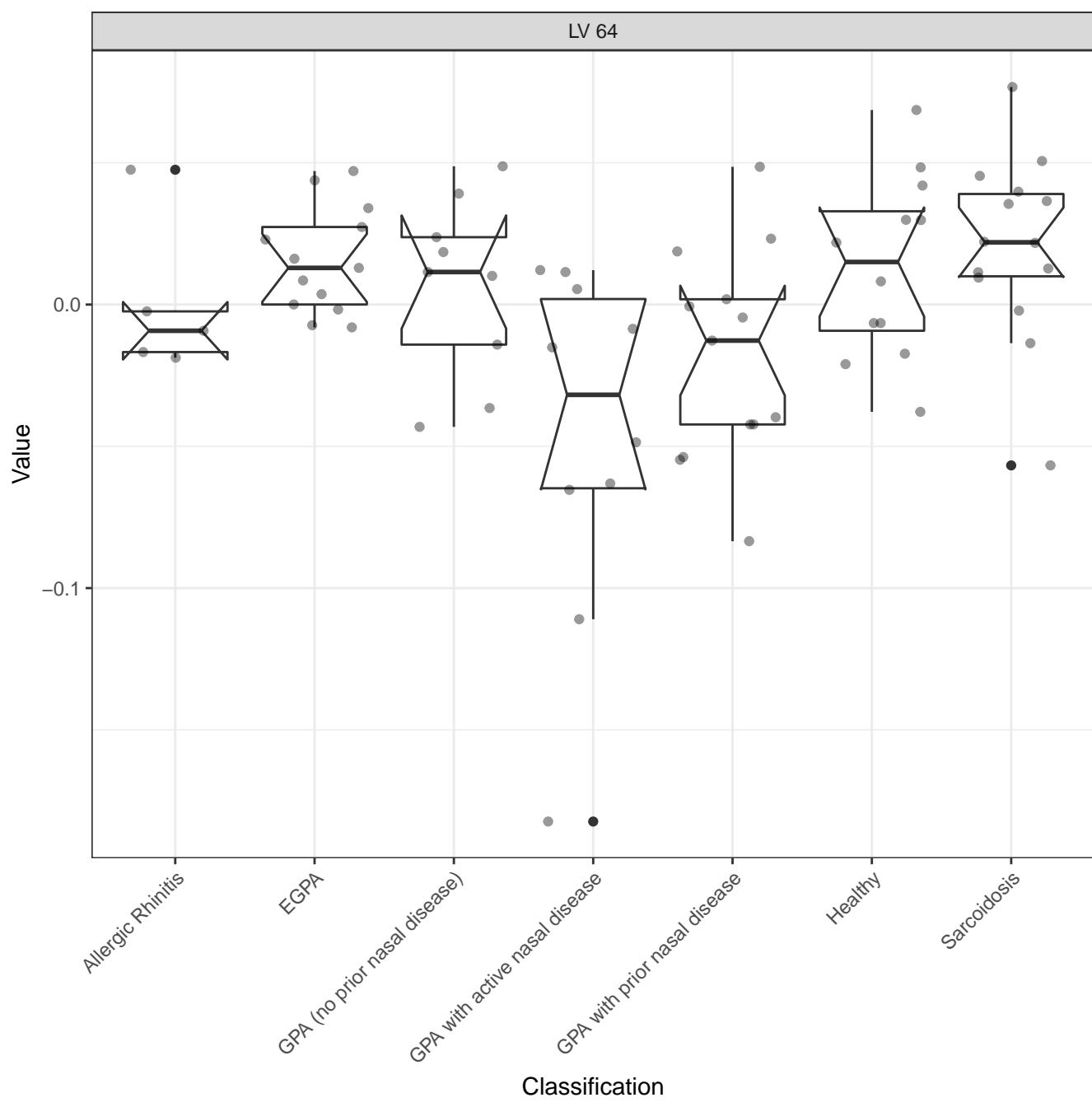
GPA with active nasal disease

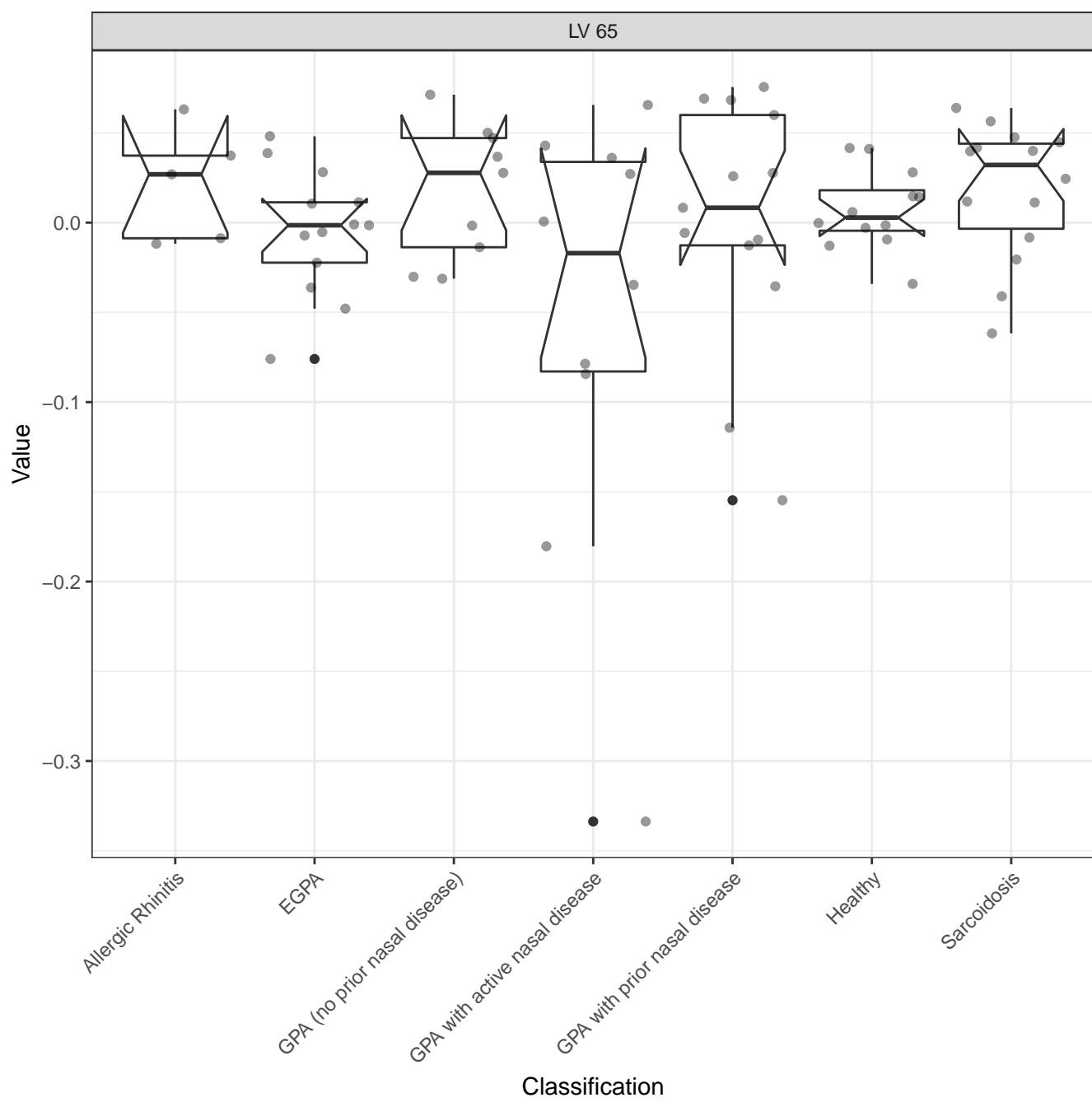
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





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

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

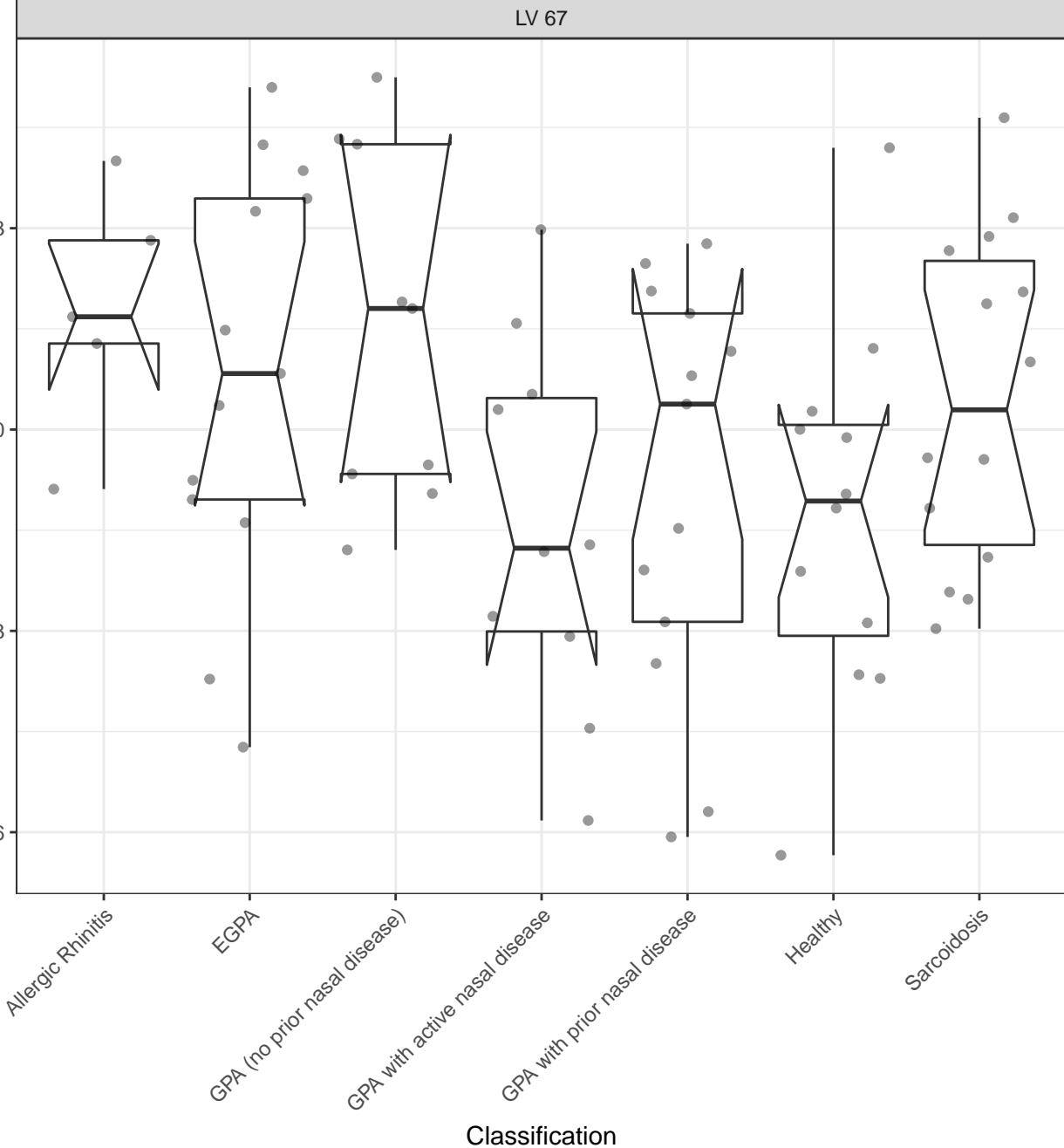
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 69,SVM Macrophages M1

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.2

0.1

0.0

-0.1

-0.2

-0.3

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

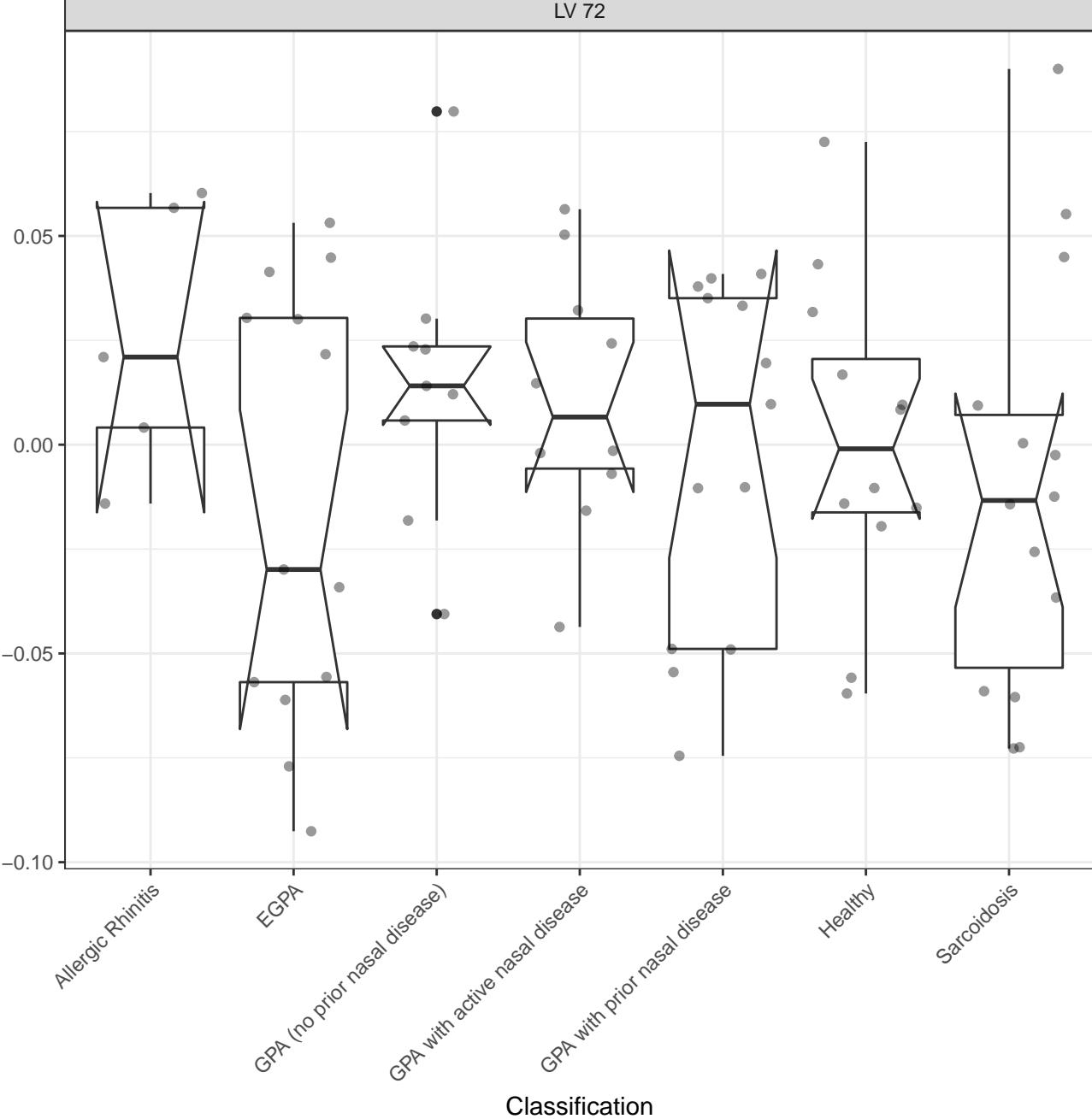
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 74,REACTOME\_UNFOLDED\_PROTEIN\_RESPONSE

Value

0.3

0.2

0.1

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

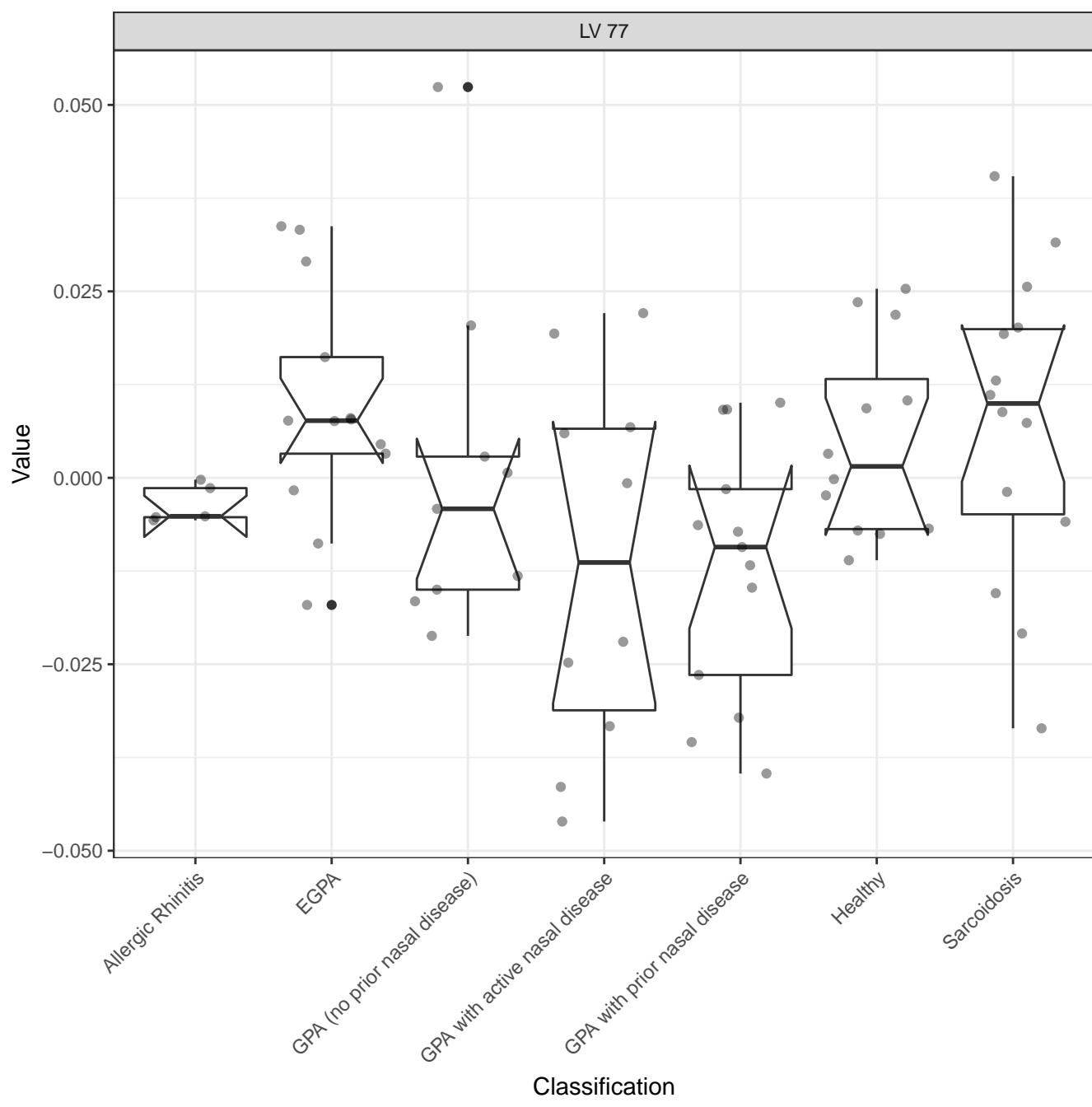
GPA with active nasal disease

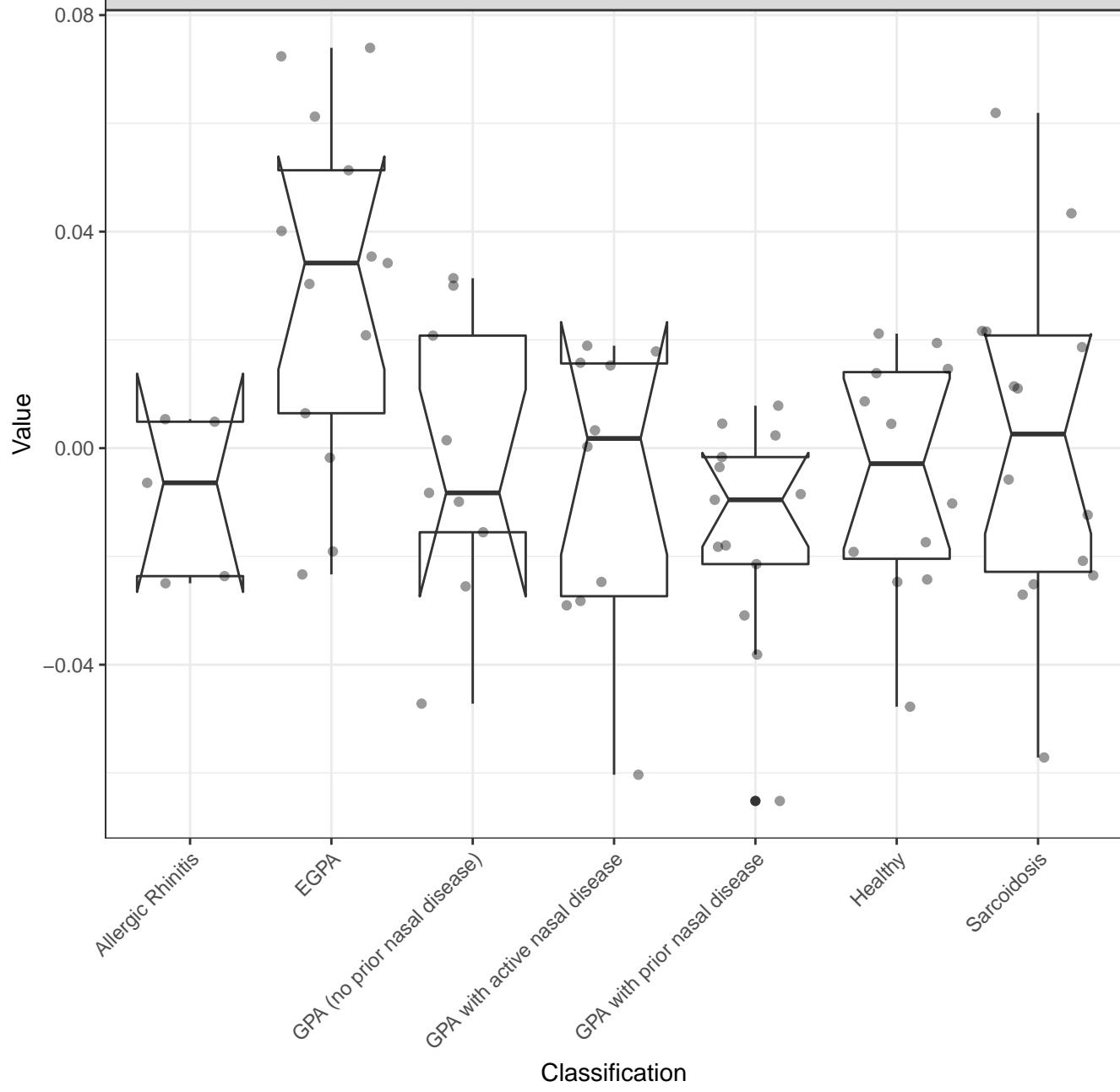
GPA with prior nasal disease

Healthy

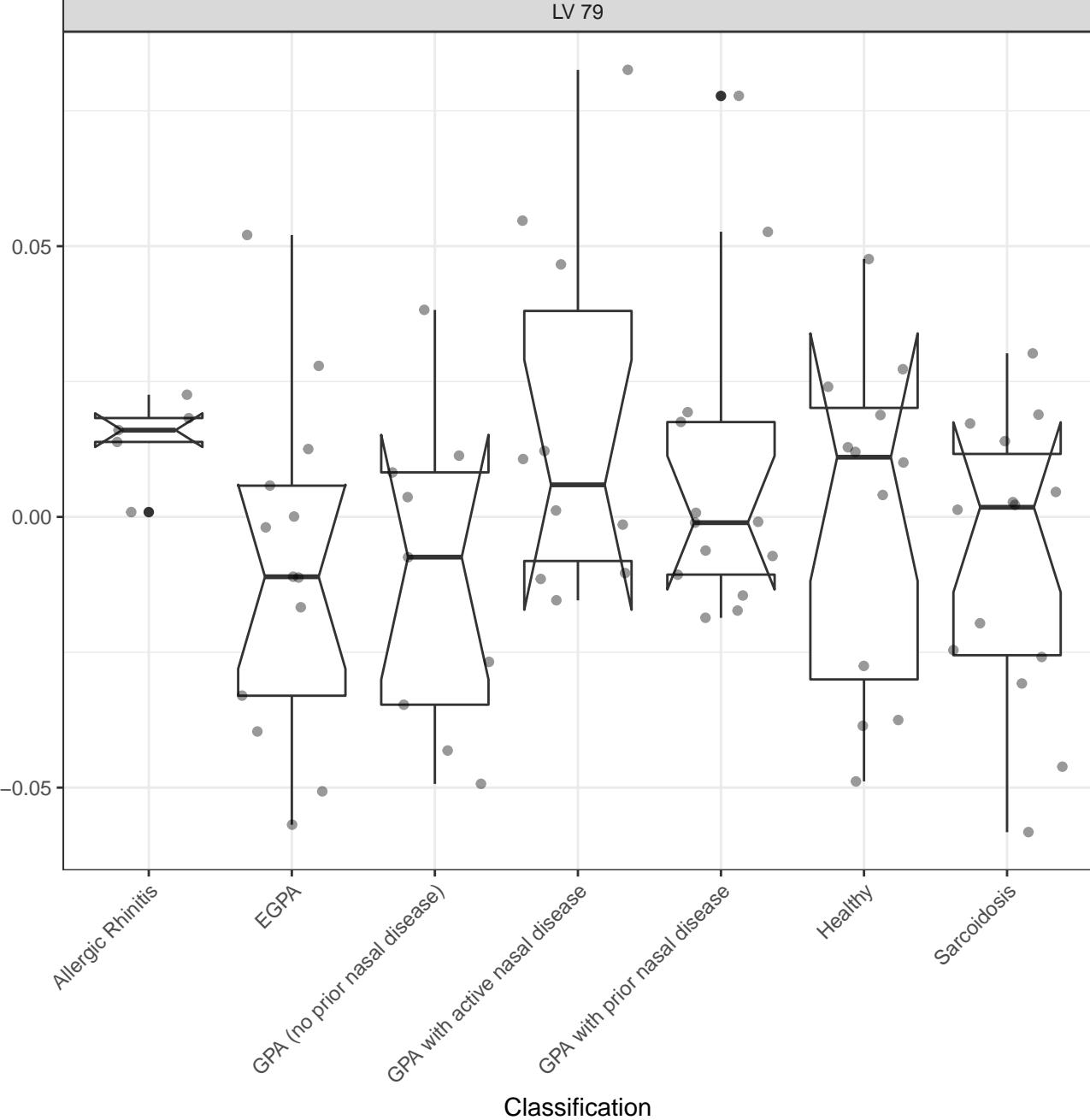
Sarcoidosis

Classification





Value



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

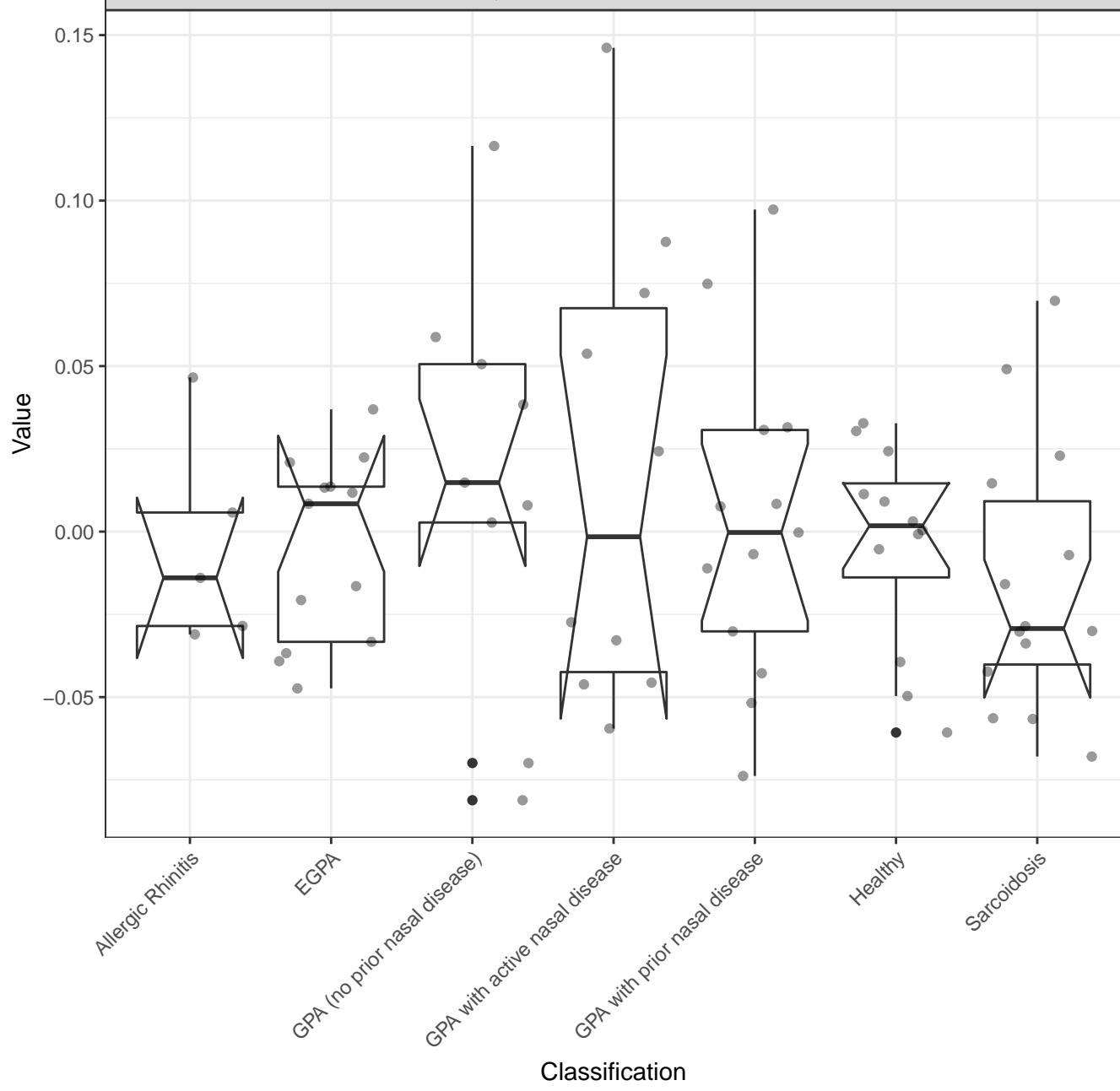
GPA with prior nasal disease

Healthy

Sarcoidosis

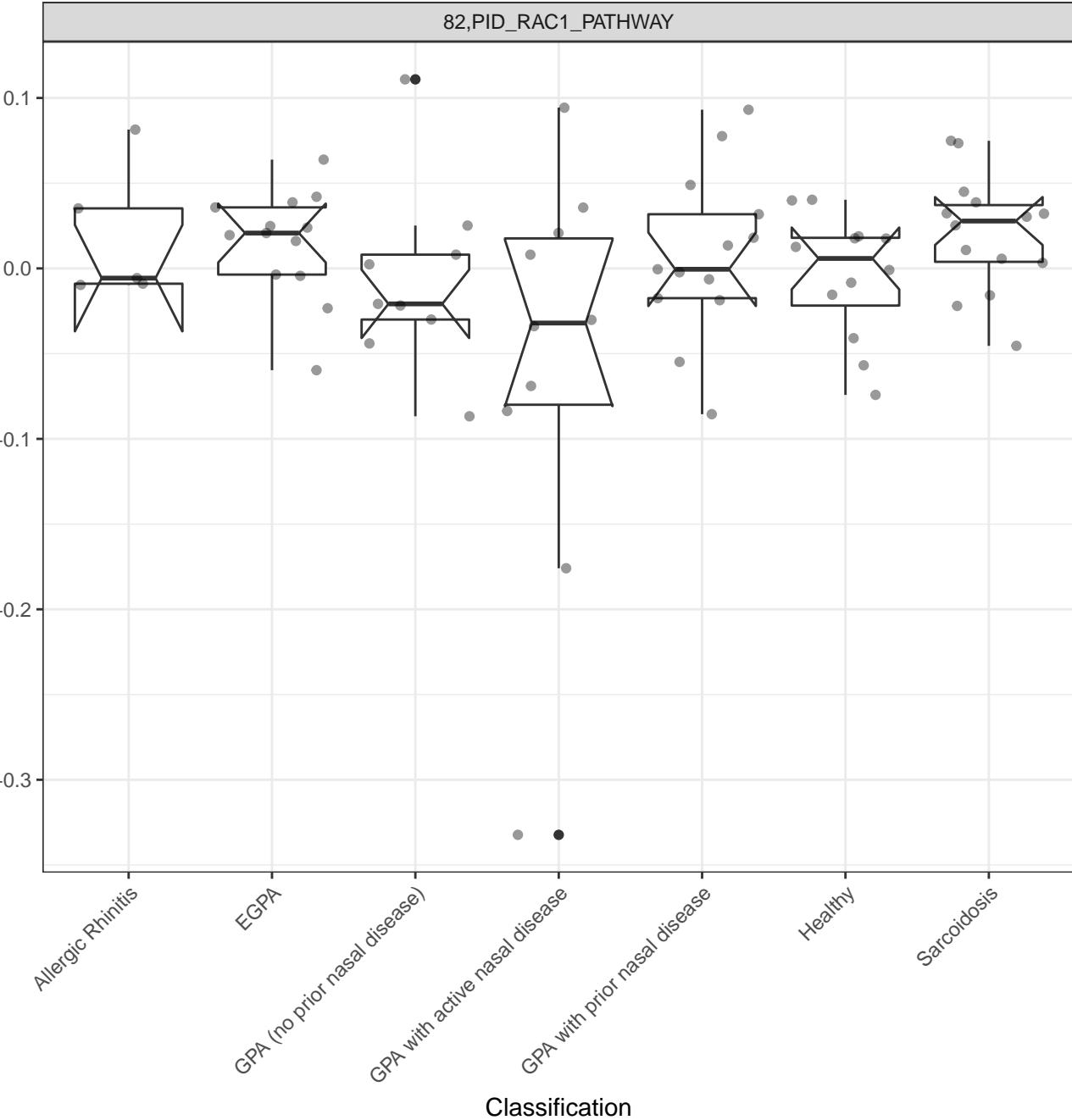
Classification

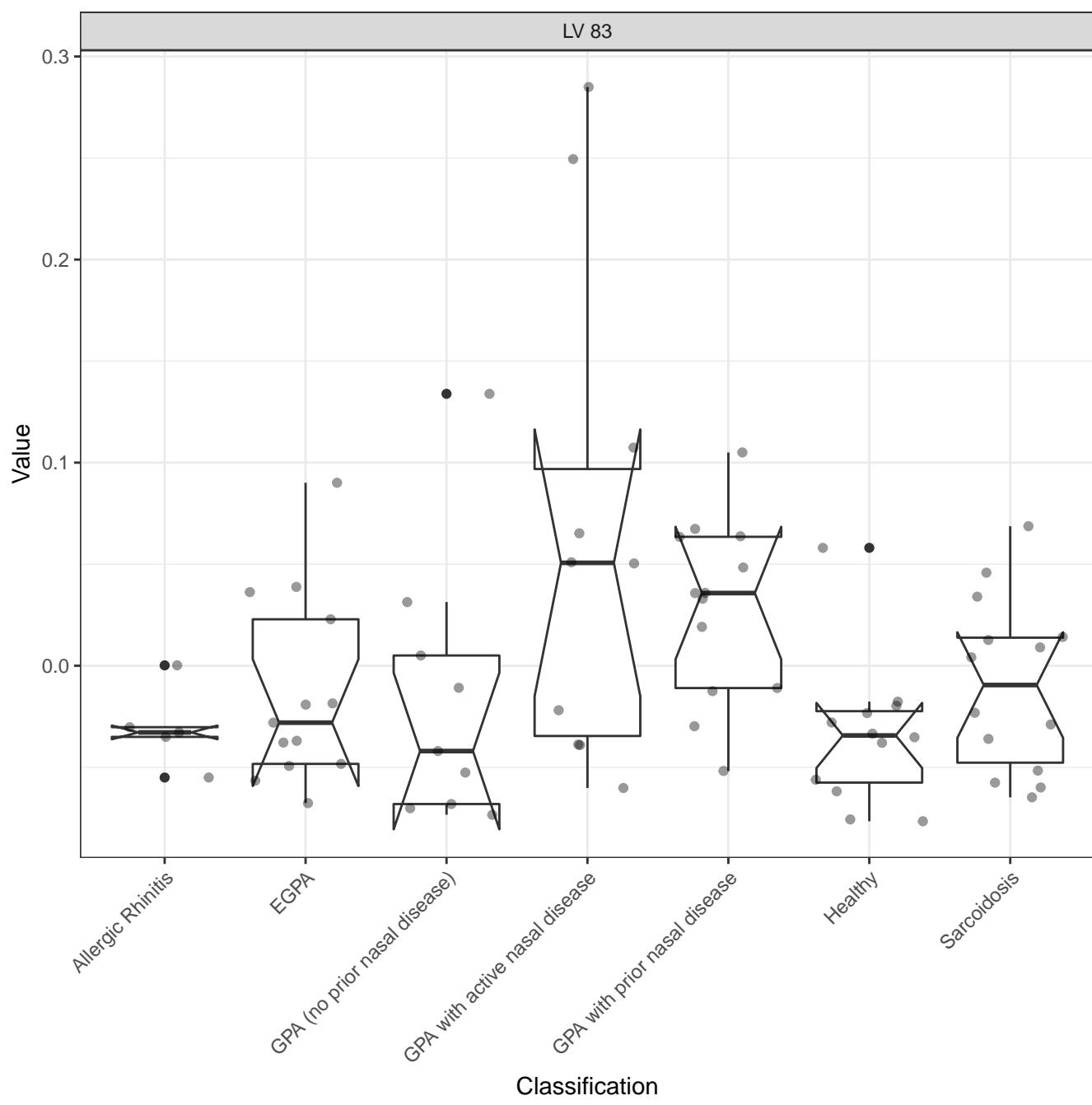
## 81,PID\_INTEGRIN1\_PATHWAY



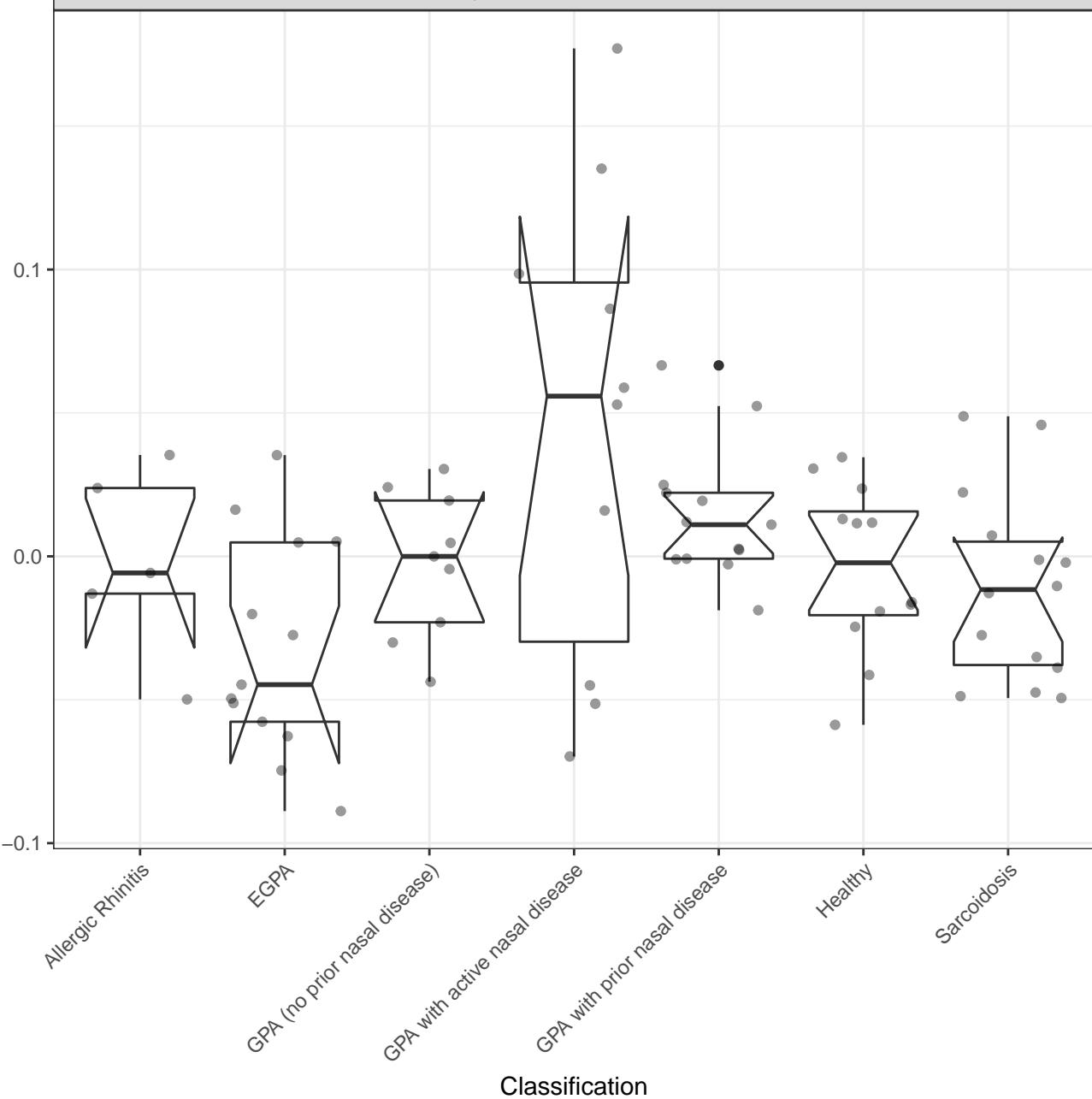
## 82,PID\_RAC1\_PATHWAY

Value

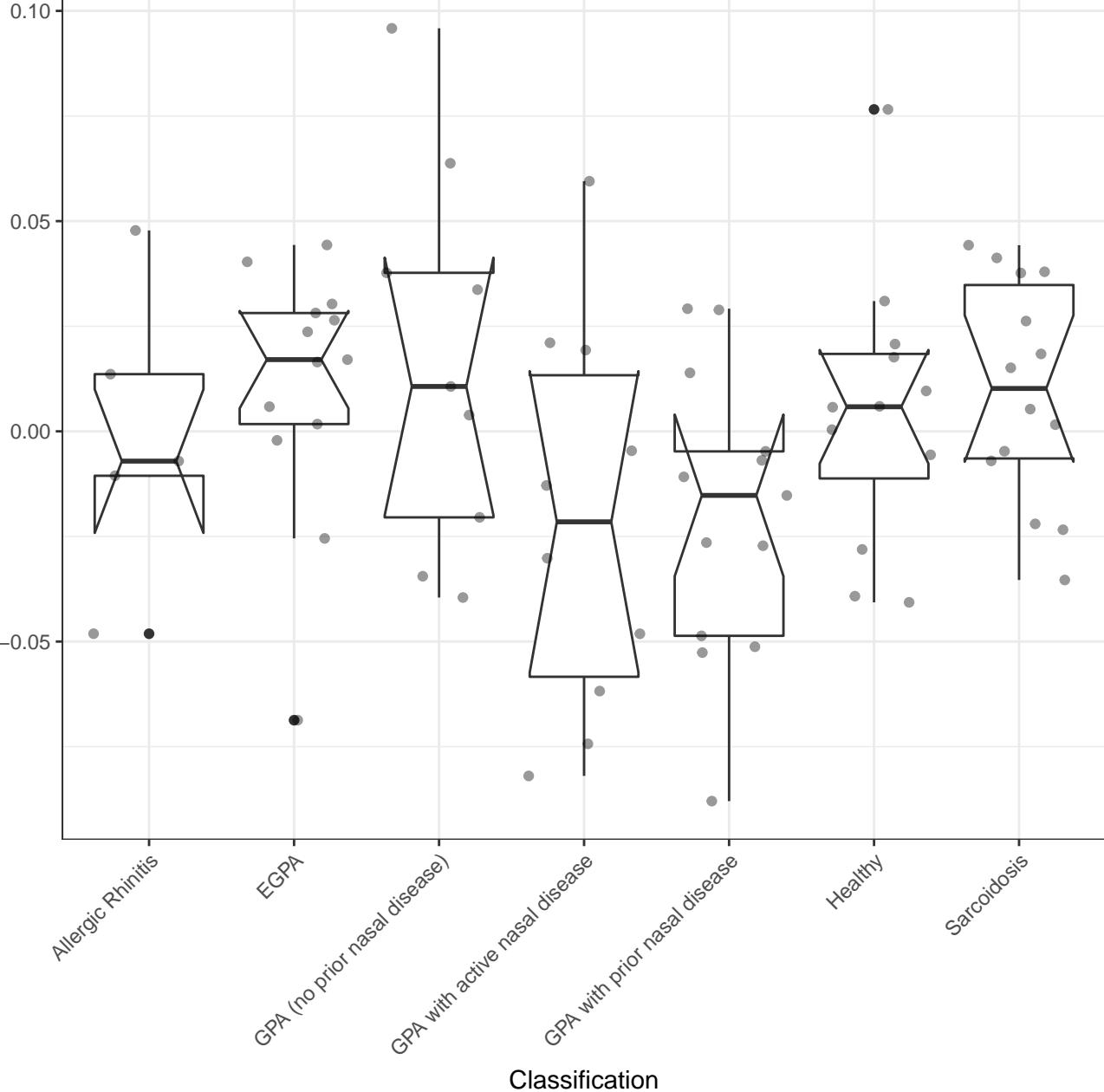




Value



Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

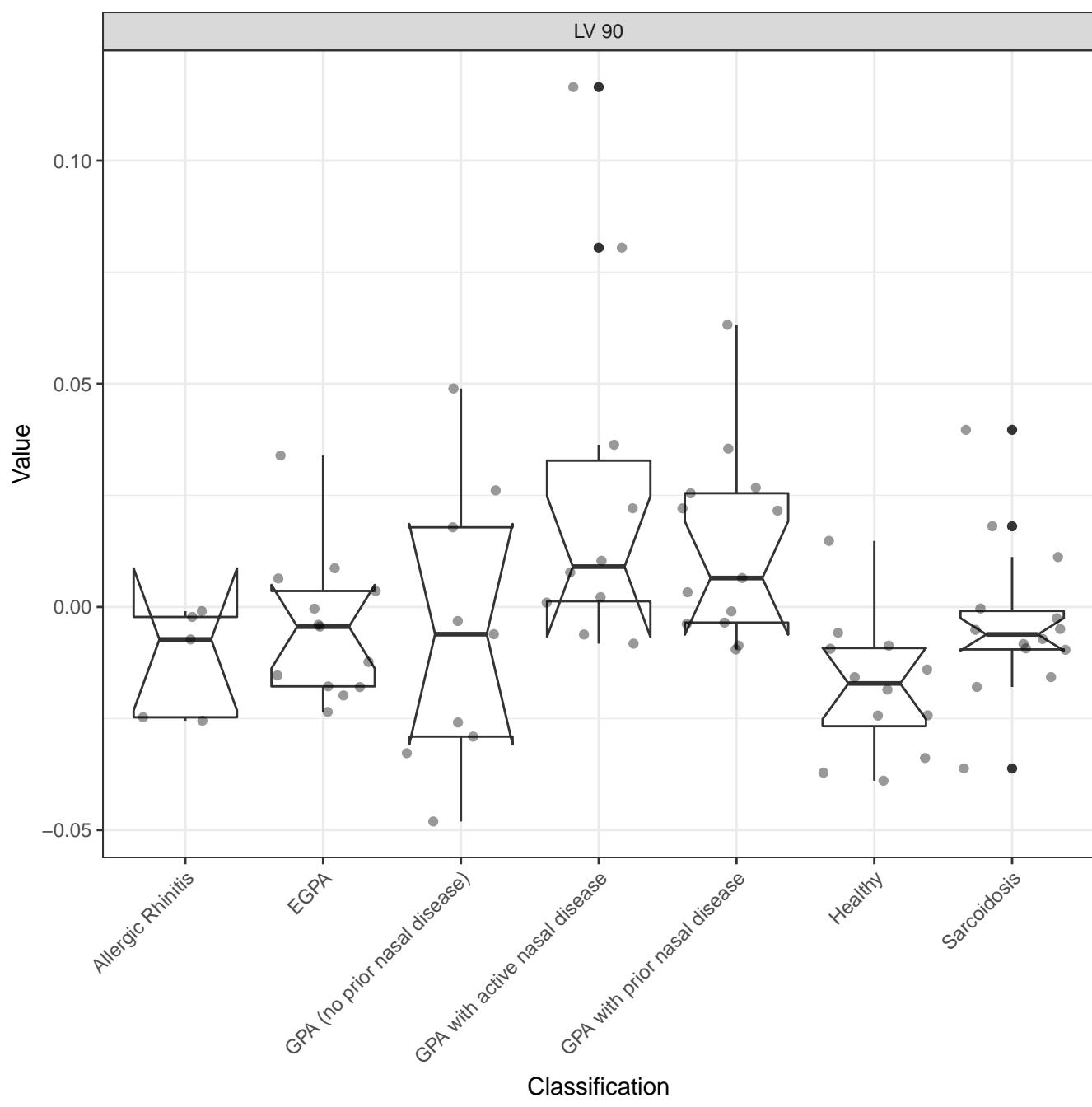
GPA with active nasal disease

GPA with prior nasal disease

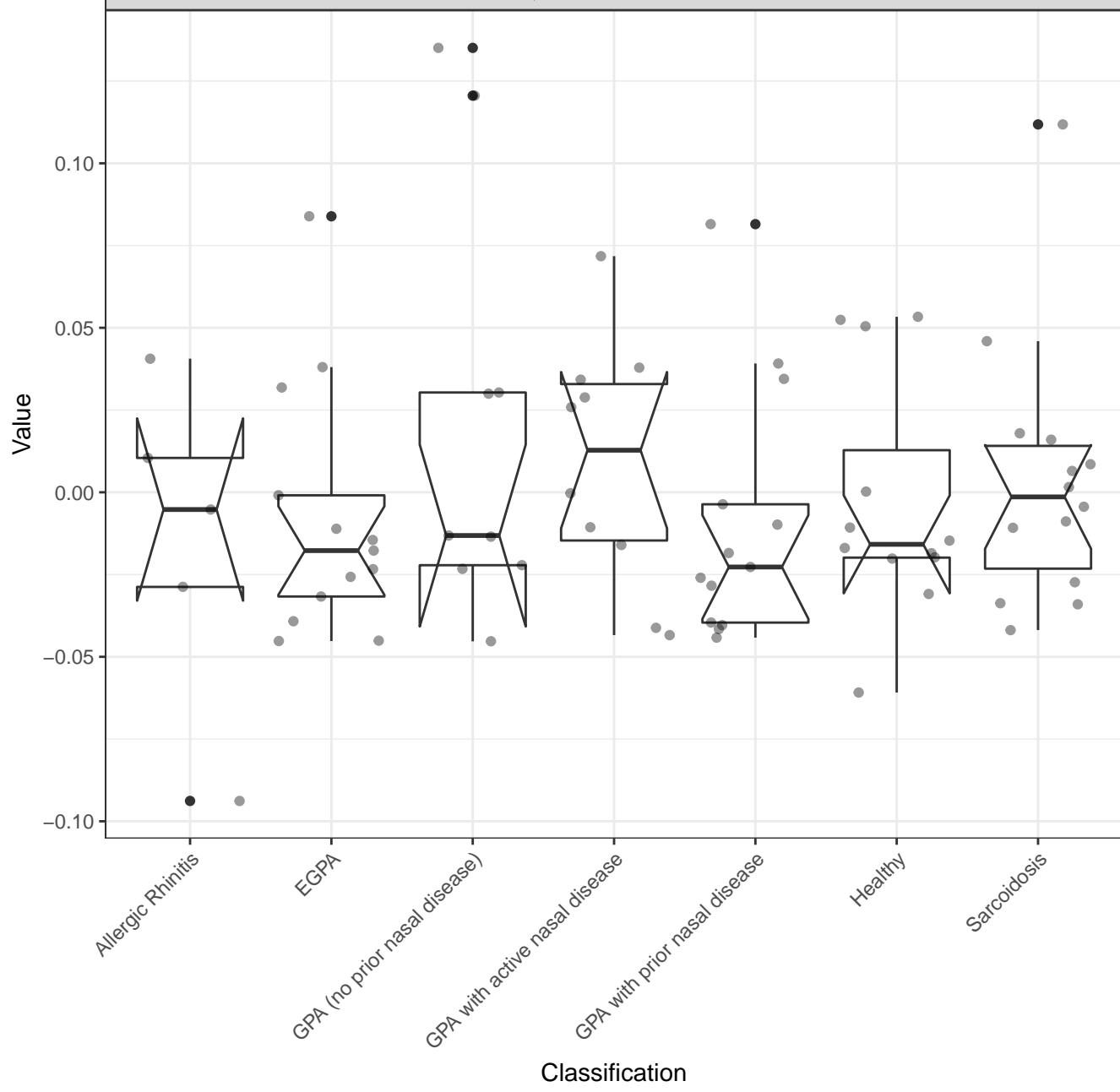
Healthy

Sarcoidosis

Classification

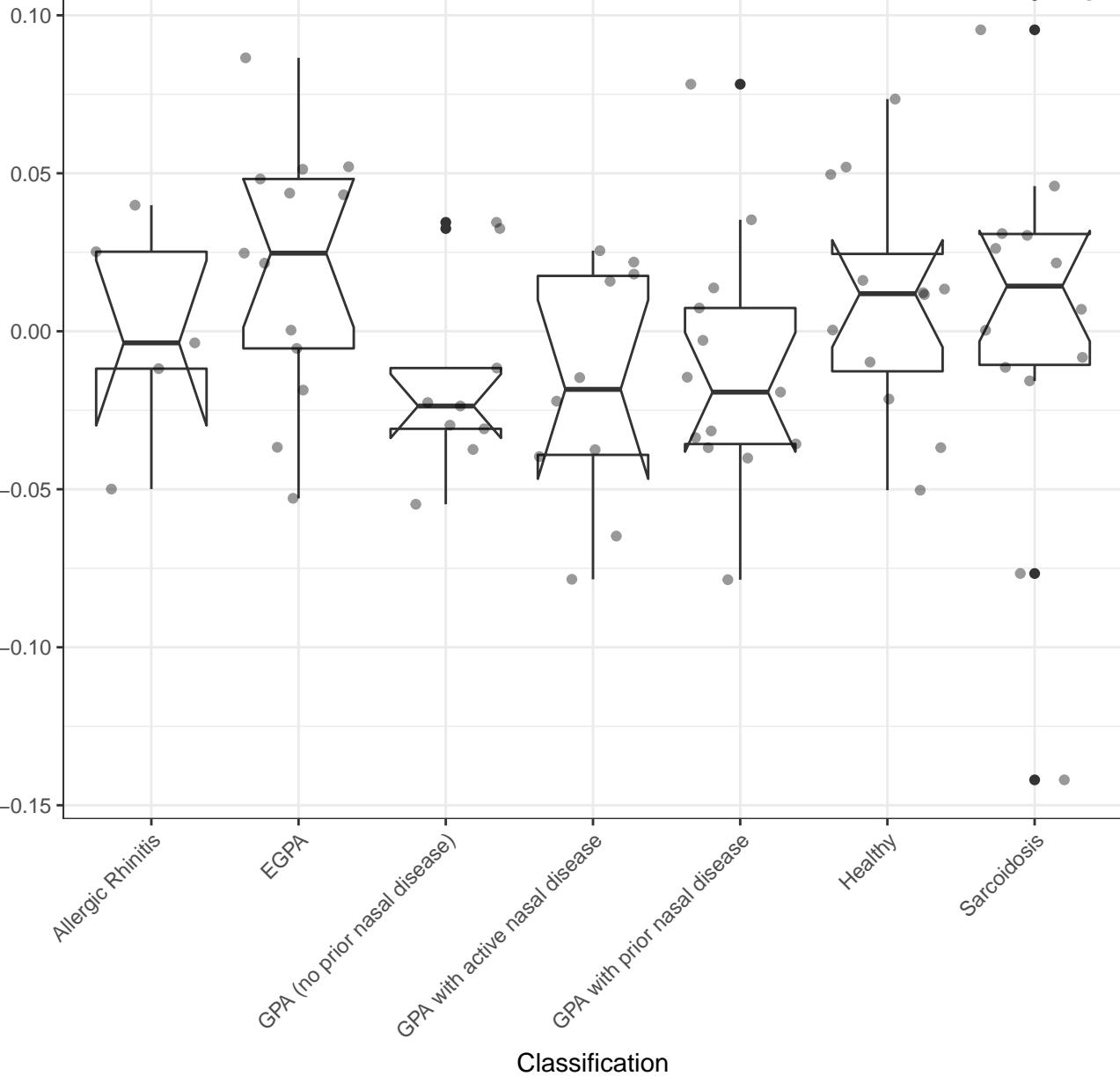


## 91,KEGG\_LYSOSOME

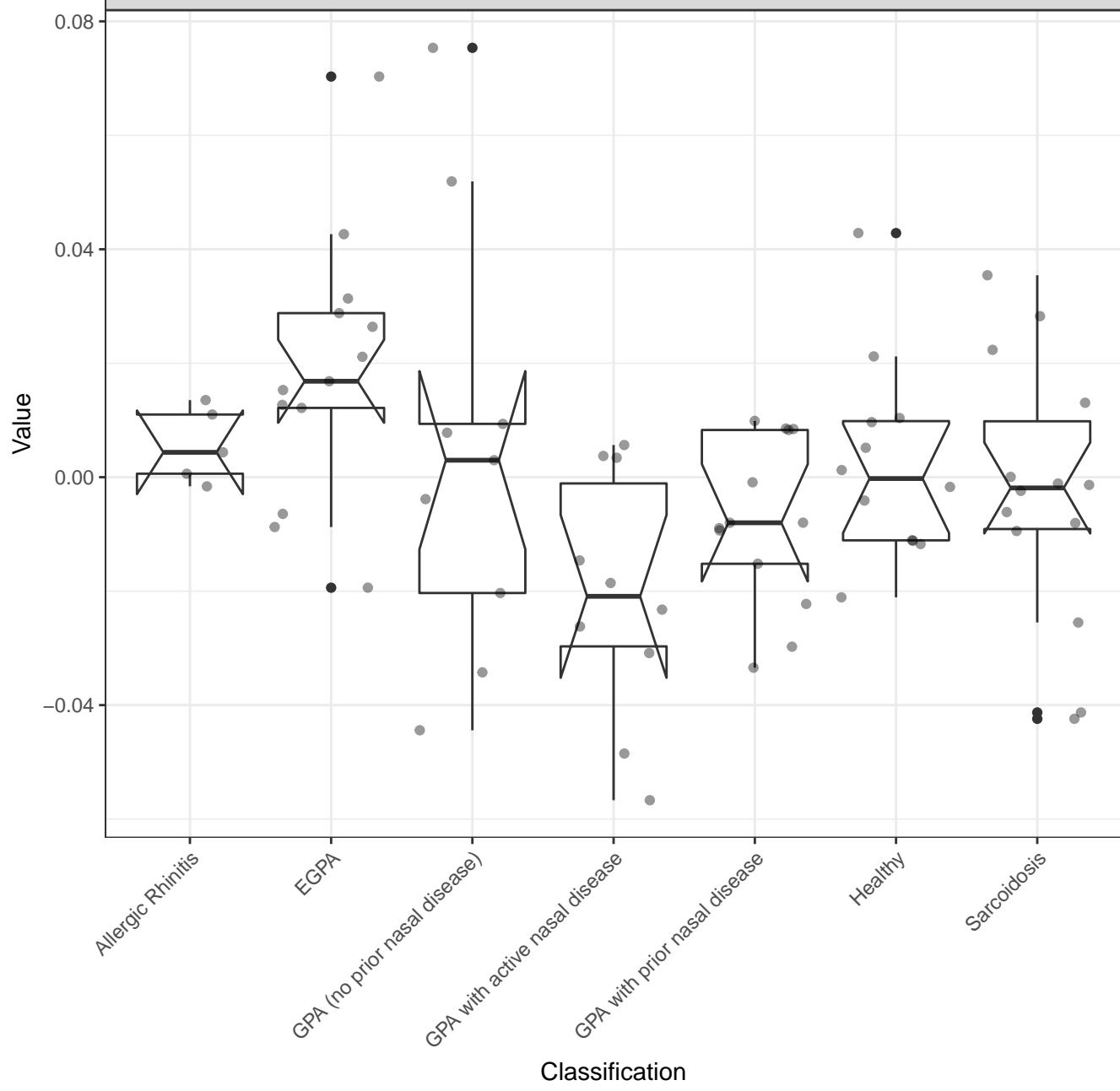


## 92,REACTOME\_CHROMOSOME\_MAINTENANCE

Value



LV 93



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

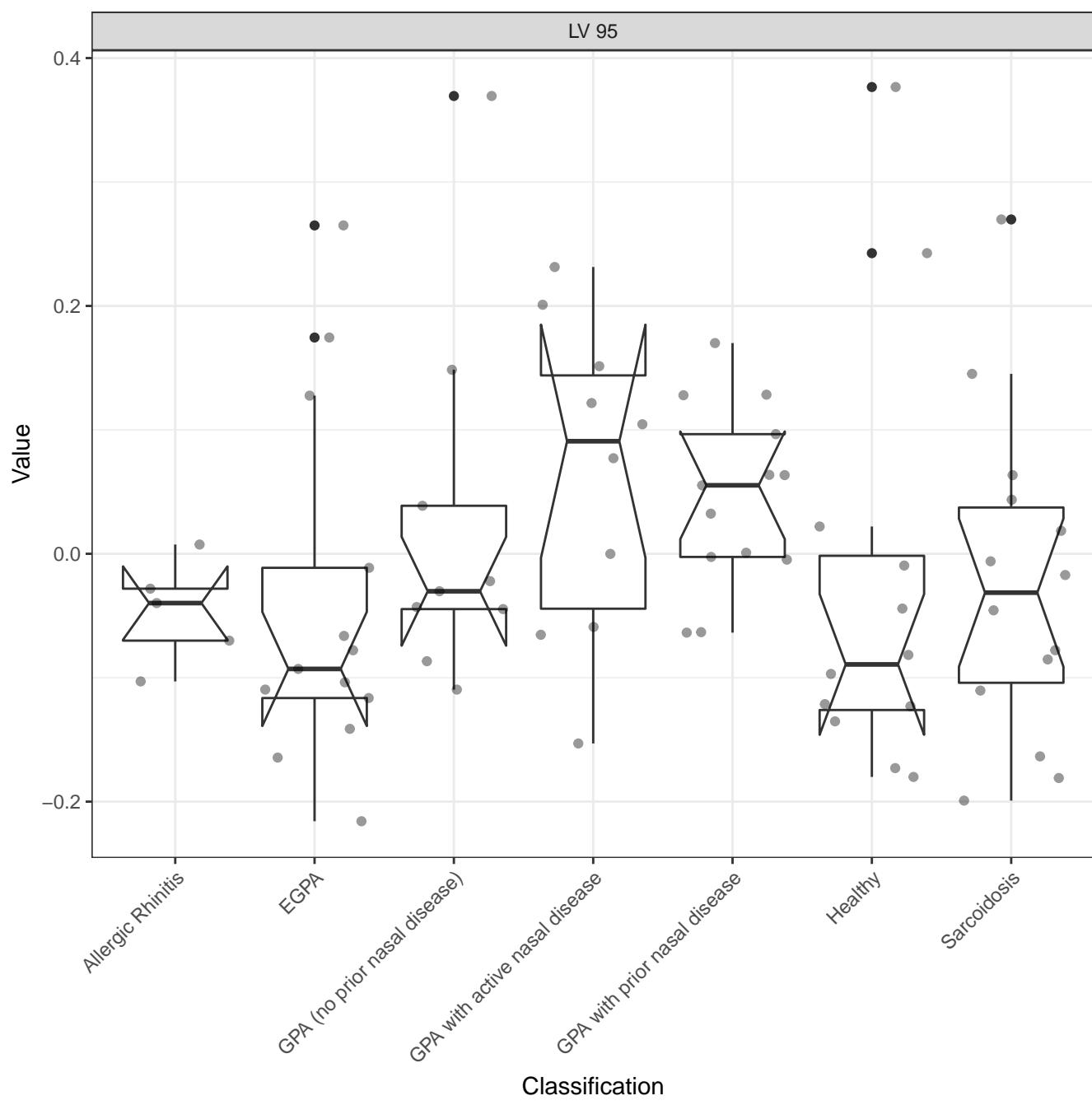
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 96,SVM NK cells activated

Value

0.10

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 97,KEGG\_ARACHIDONIC\_ACID\_METABOLISM

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 98

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

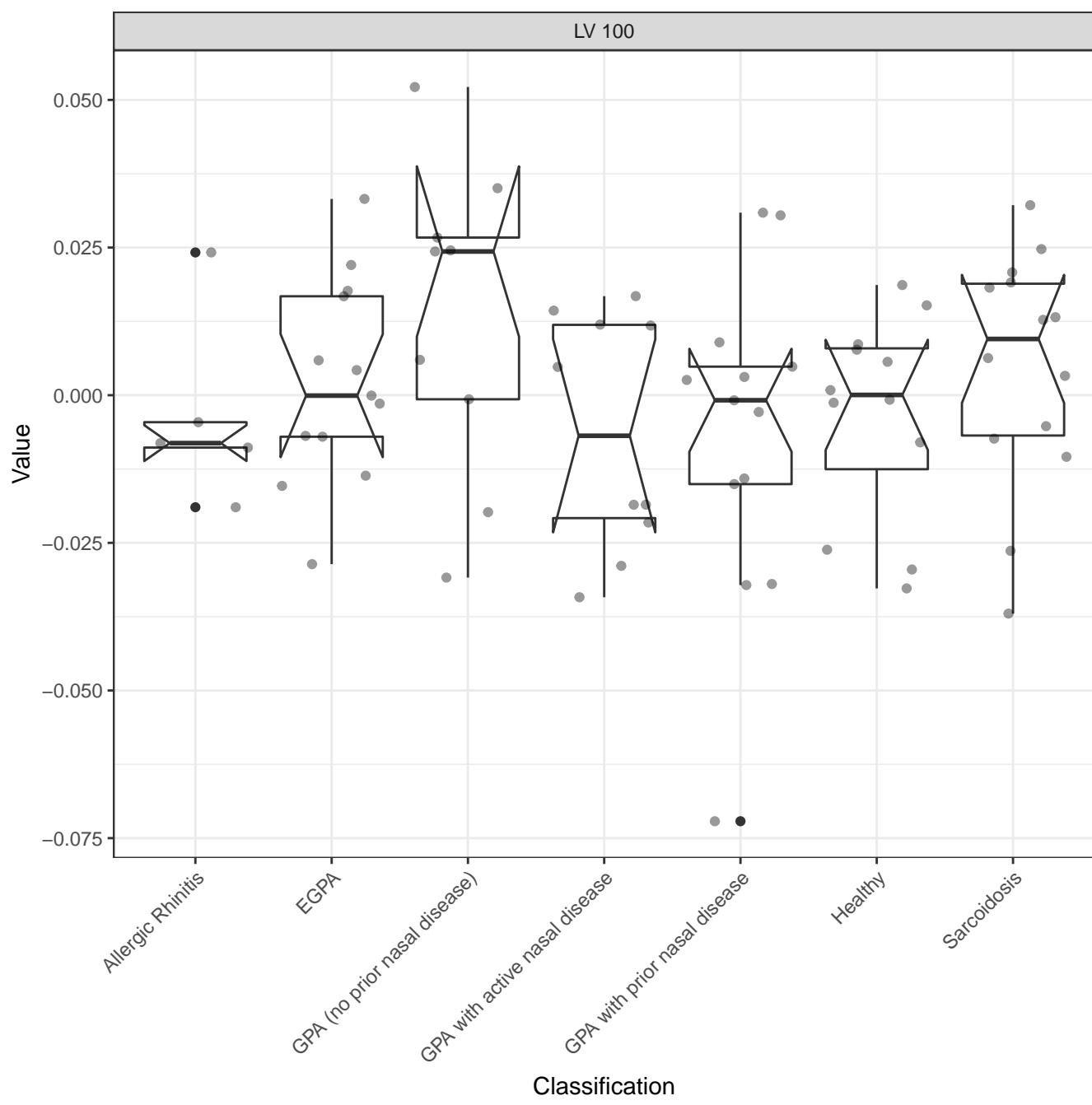
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

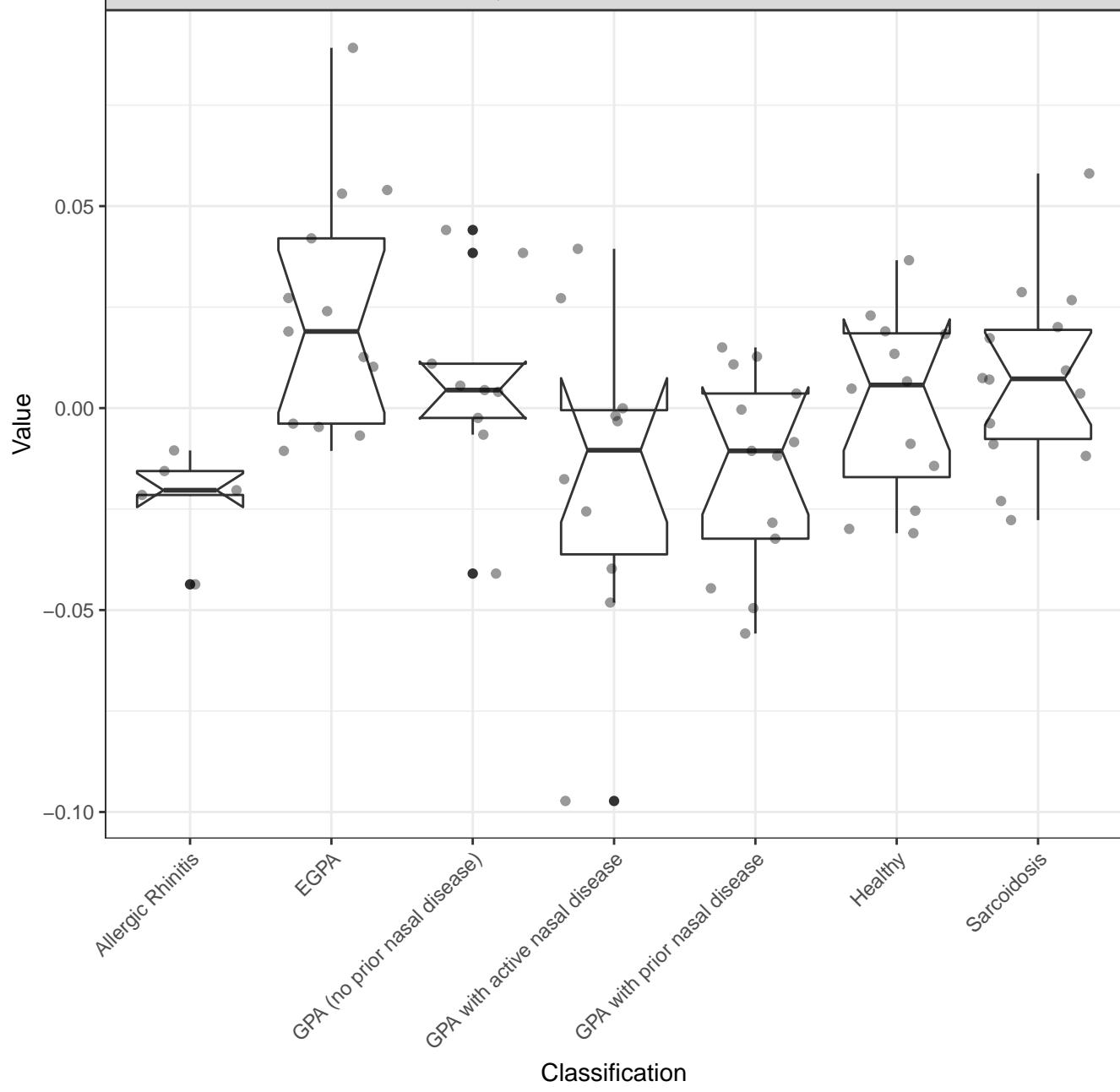
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 102,BIOCARTA\_NFAT\_PATHWAY



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

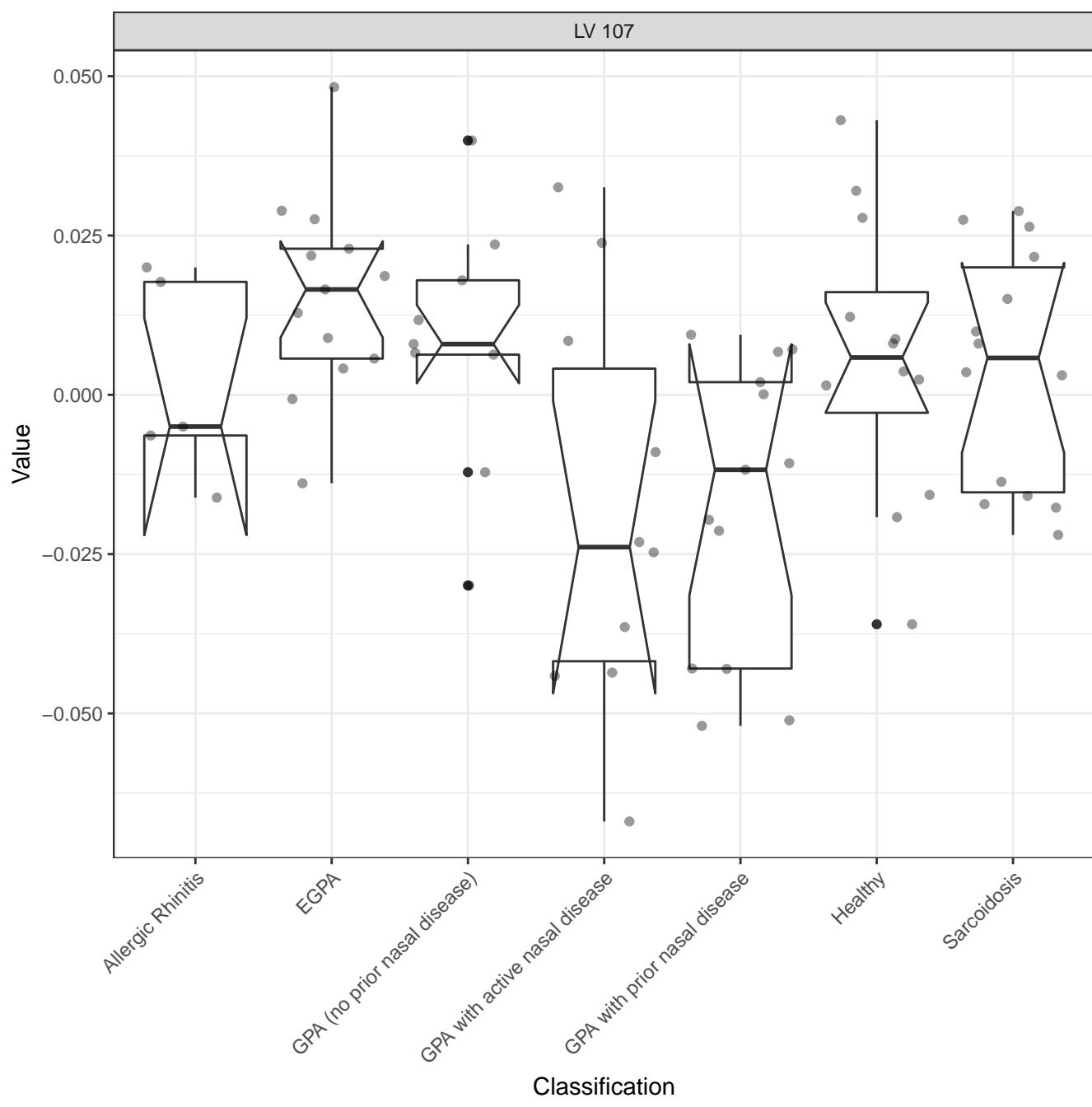
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 110,REACTOME\_MEIOSIS

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

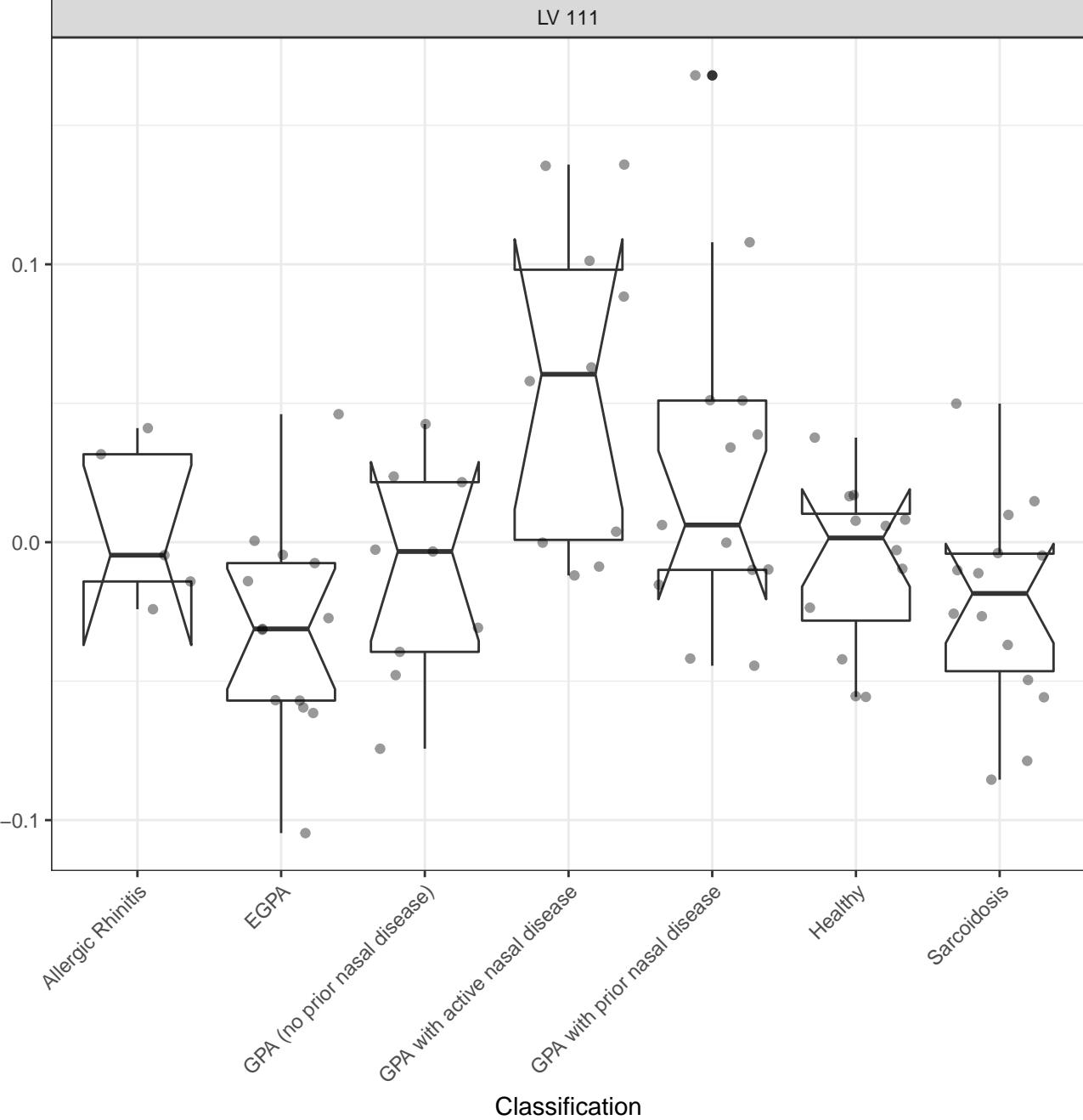
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

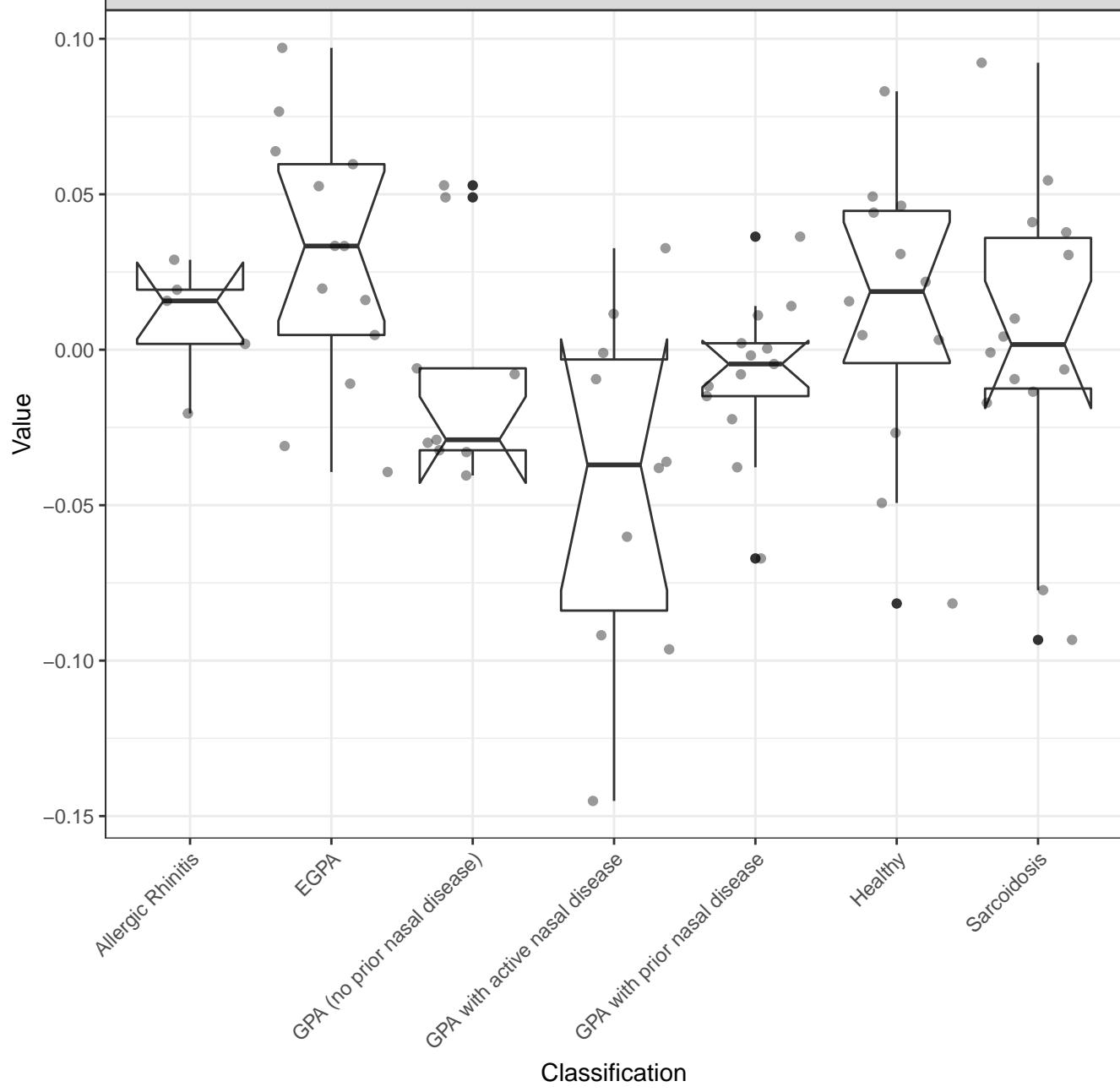
GPA with active nasal disease

GPA with prior nasal disease

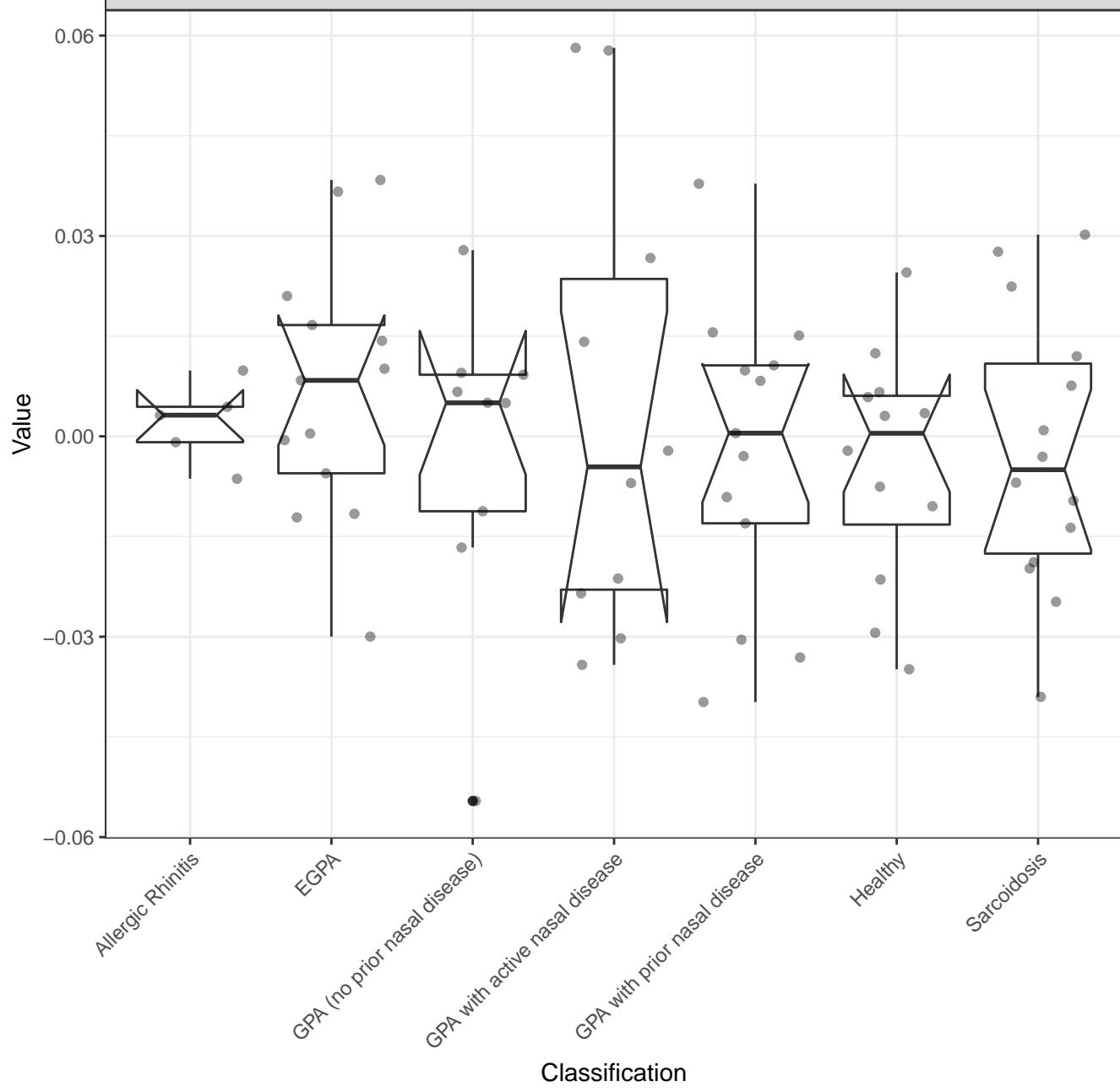
Healthy

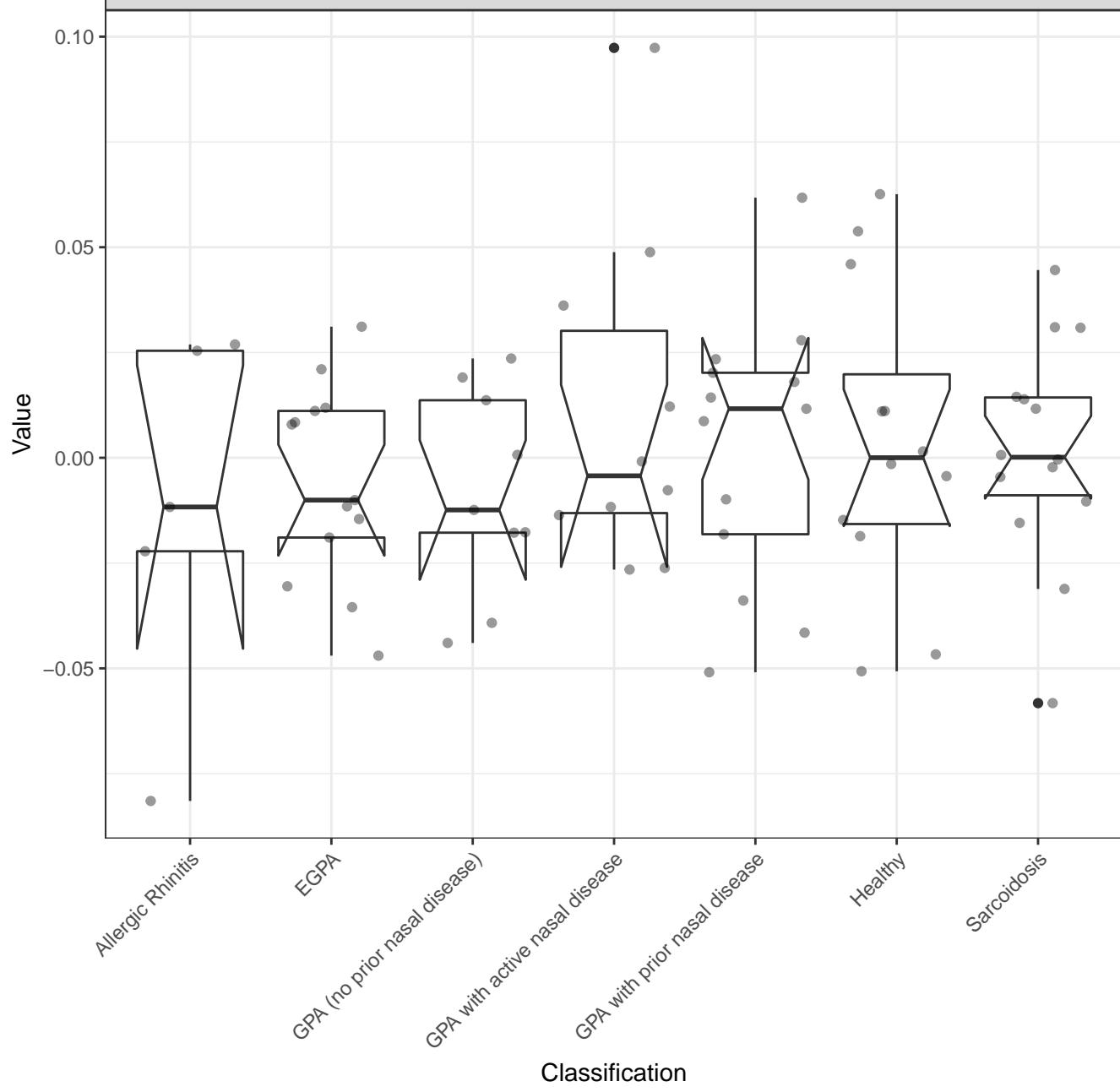
Sarcoidosis

Classification



LV 114





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

Value

0.4

0.2

0.0

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

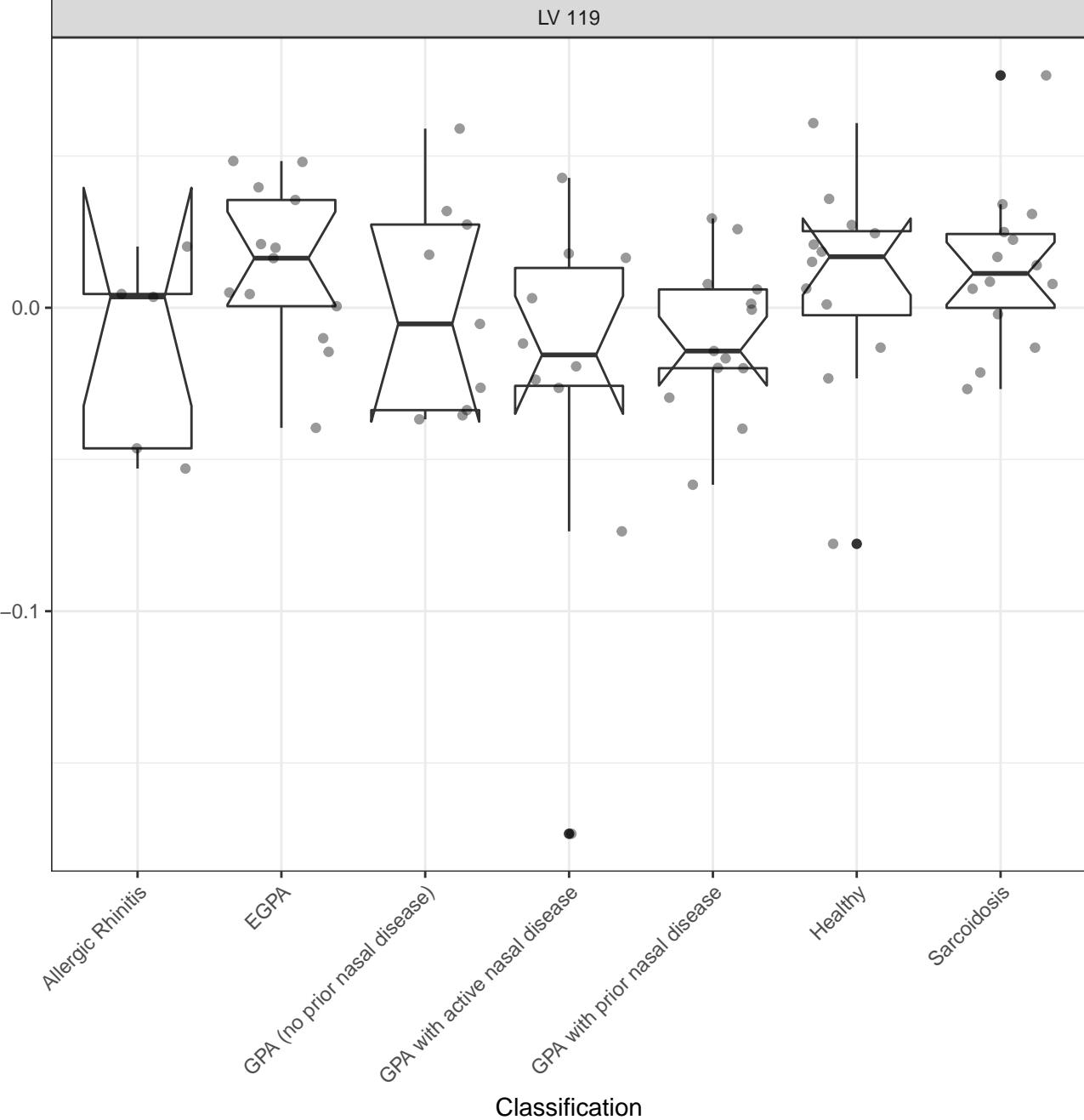
GPA with prior nasal disease

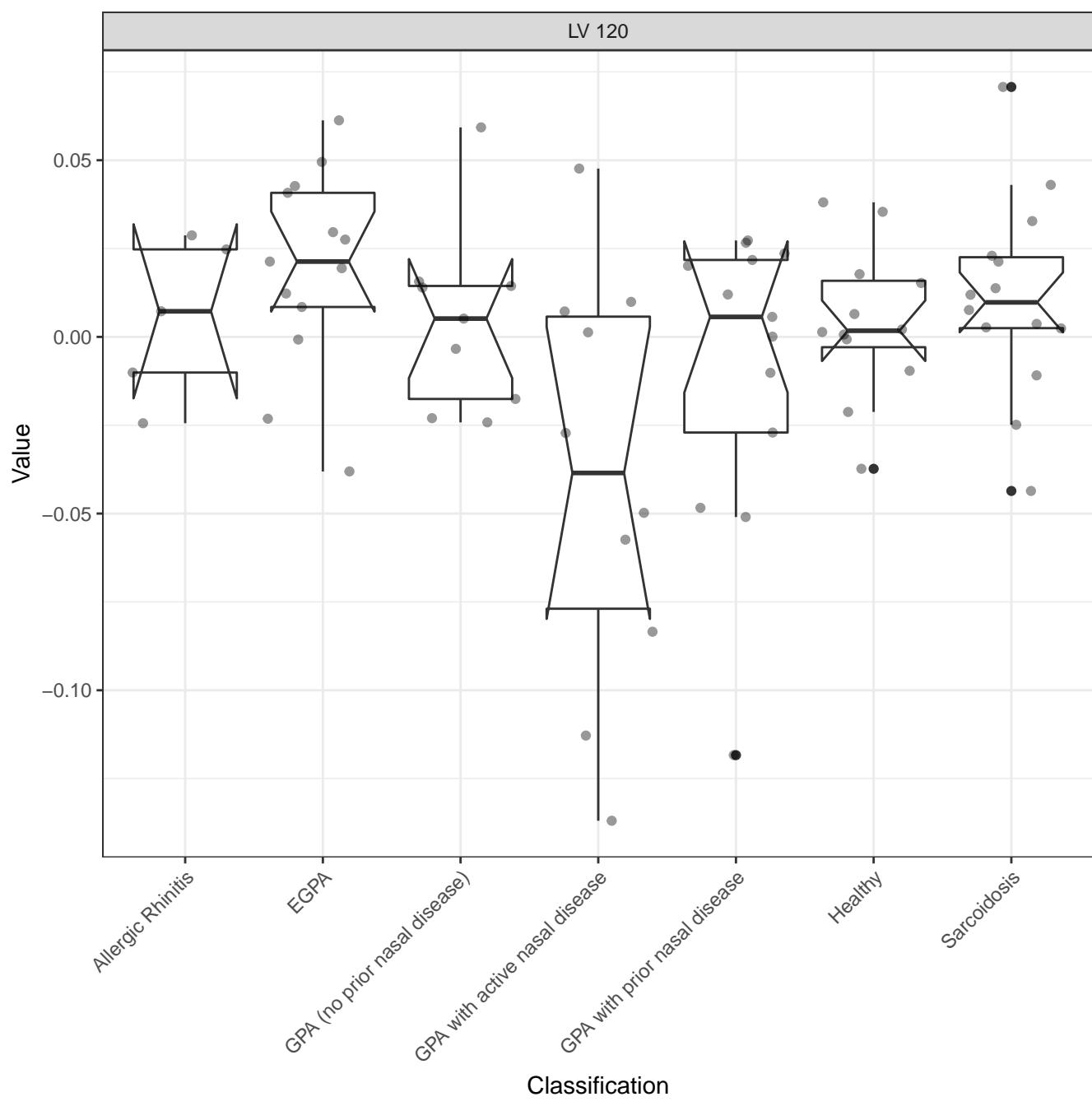
Healthy

Sarcoidosis

Classification

Value





Value

0.04

0.02

0.00

-0.02

-0.04

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 123,SVM Dendritic cells activated

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

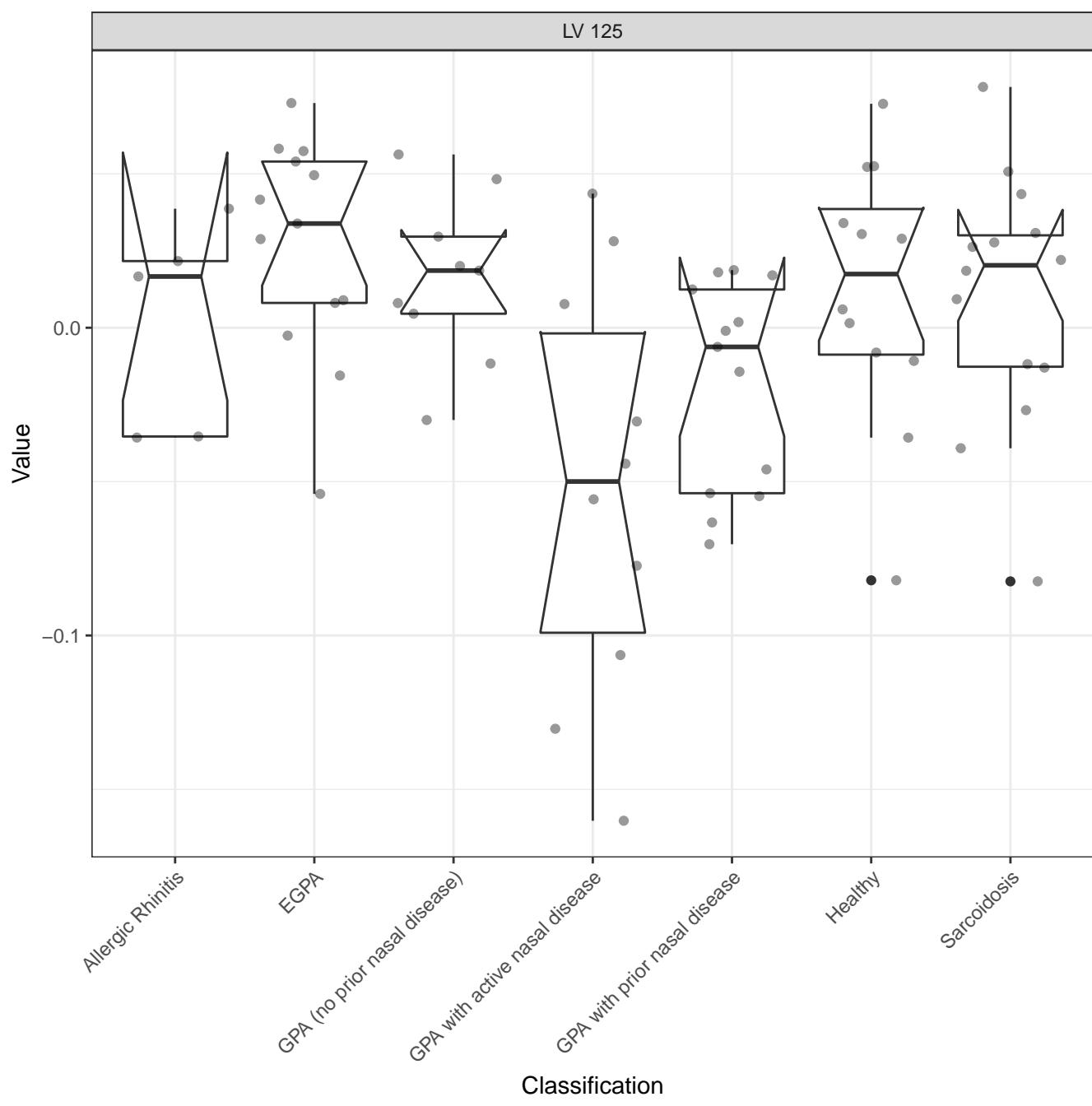
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

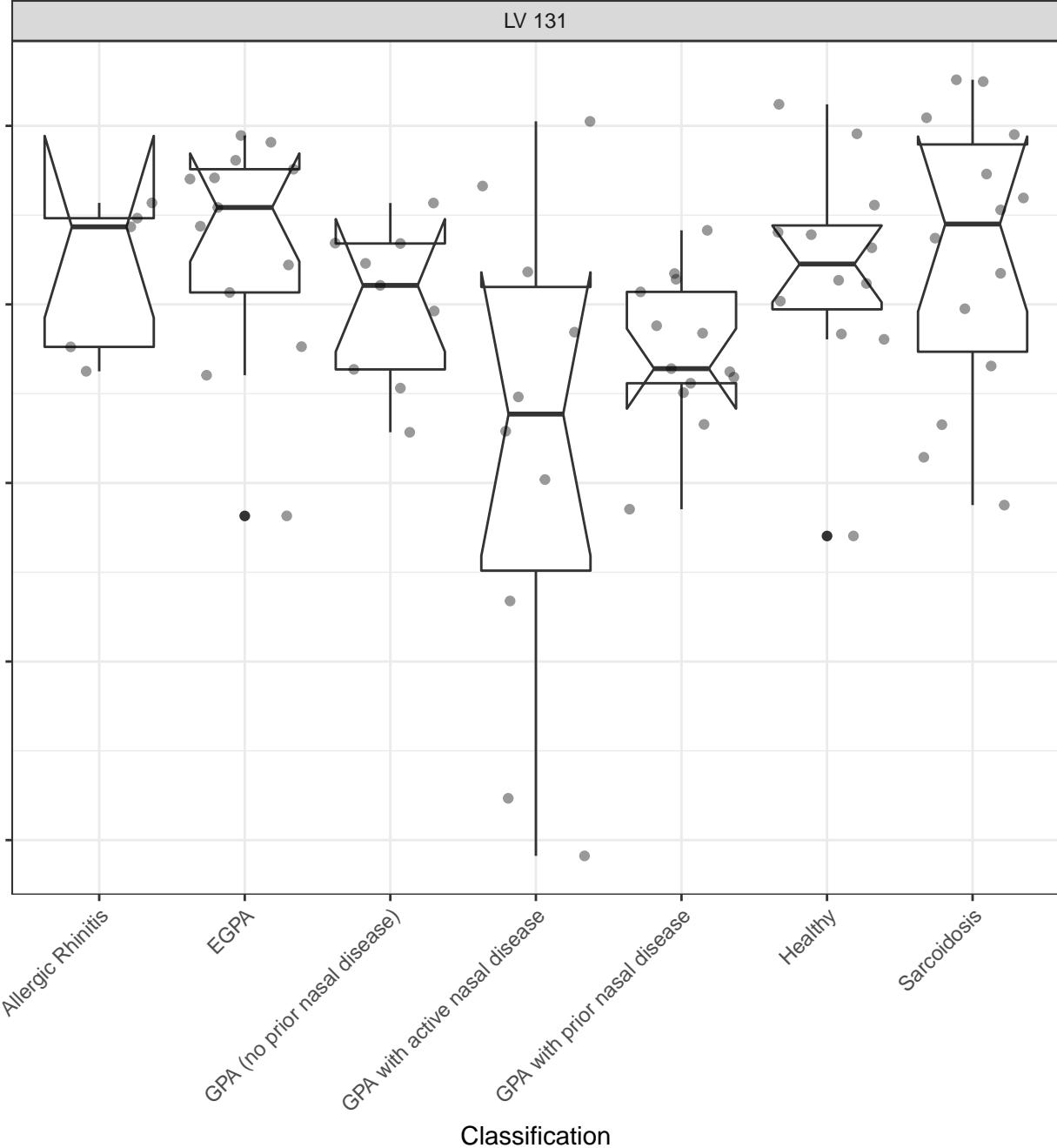
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.03

0.01

-0.01

-0.03

-0.05

-0.07

-0.09

-0.11

-0.13

-0.15

-0.17

-0.19

-0.21

-0.23

-0.25

-0.27

-0.29

-0.31

-0.33

-0.35

-0.37

-0.39

-0.41

-0.43

-0.45

-0.47

-0.49

-0.51

-0.53

-0.55

-0.57

-0.59

-0.61

-0.63

-0.65

-0.67

-0.69

-0.71

-0.73

-0.75

-0.77

-0.79

-0.81

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 136,PID\_INTEGRIN1\_PATHWAY

Value

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 140,REACTOME\_INTERFERON\_GAMMA\_SIGNALING

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

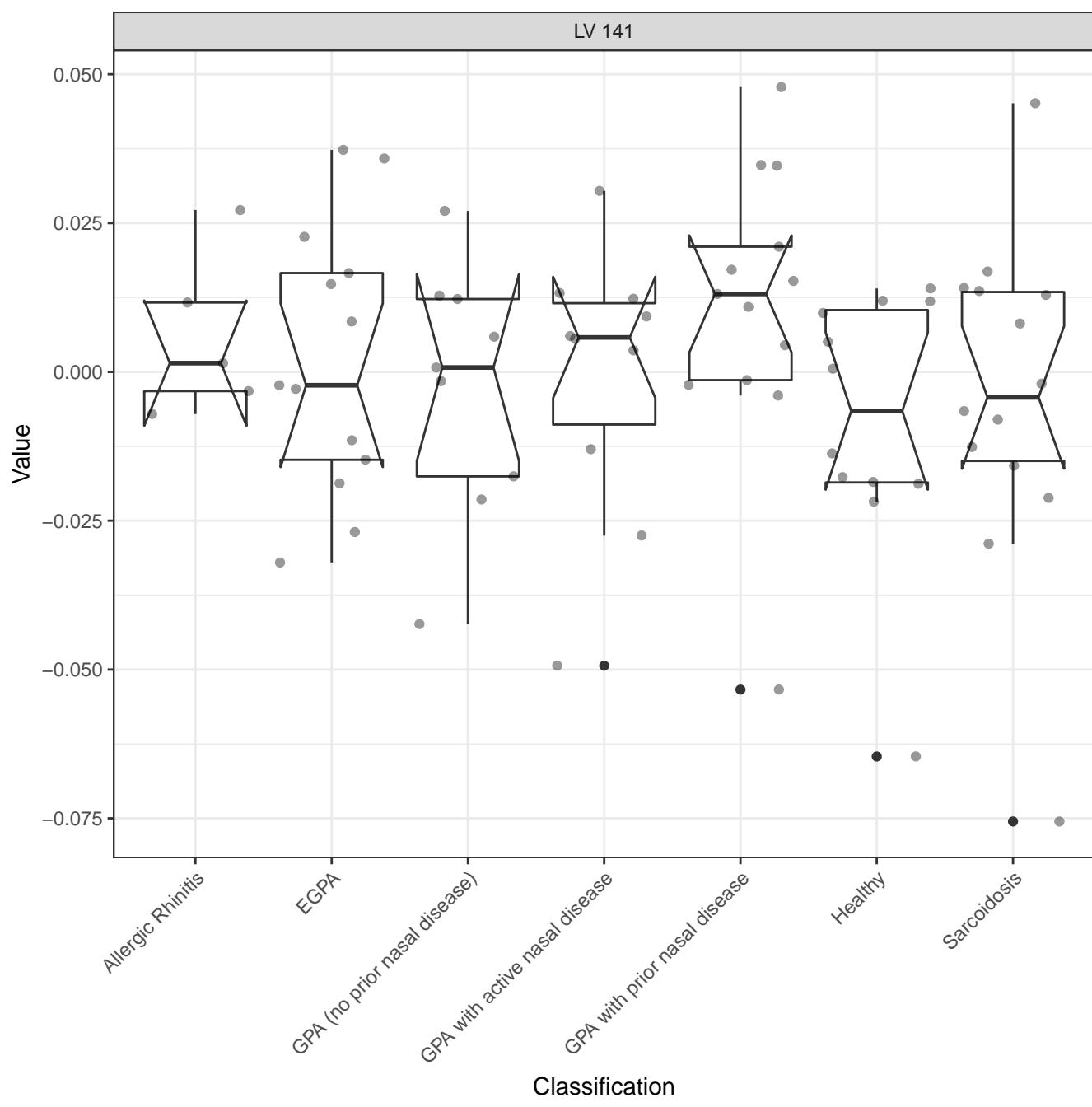
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

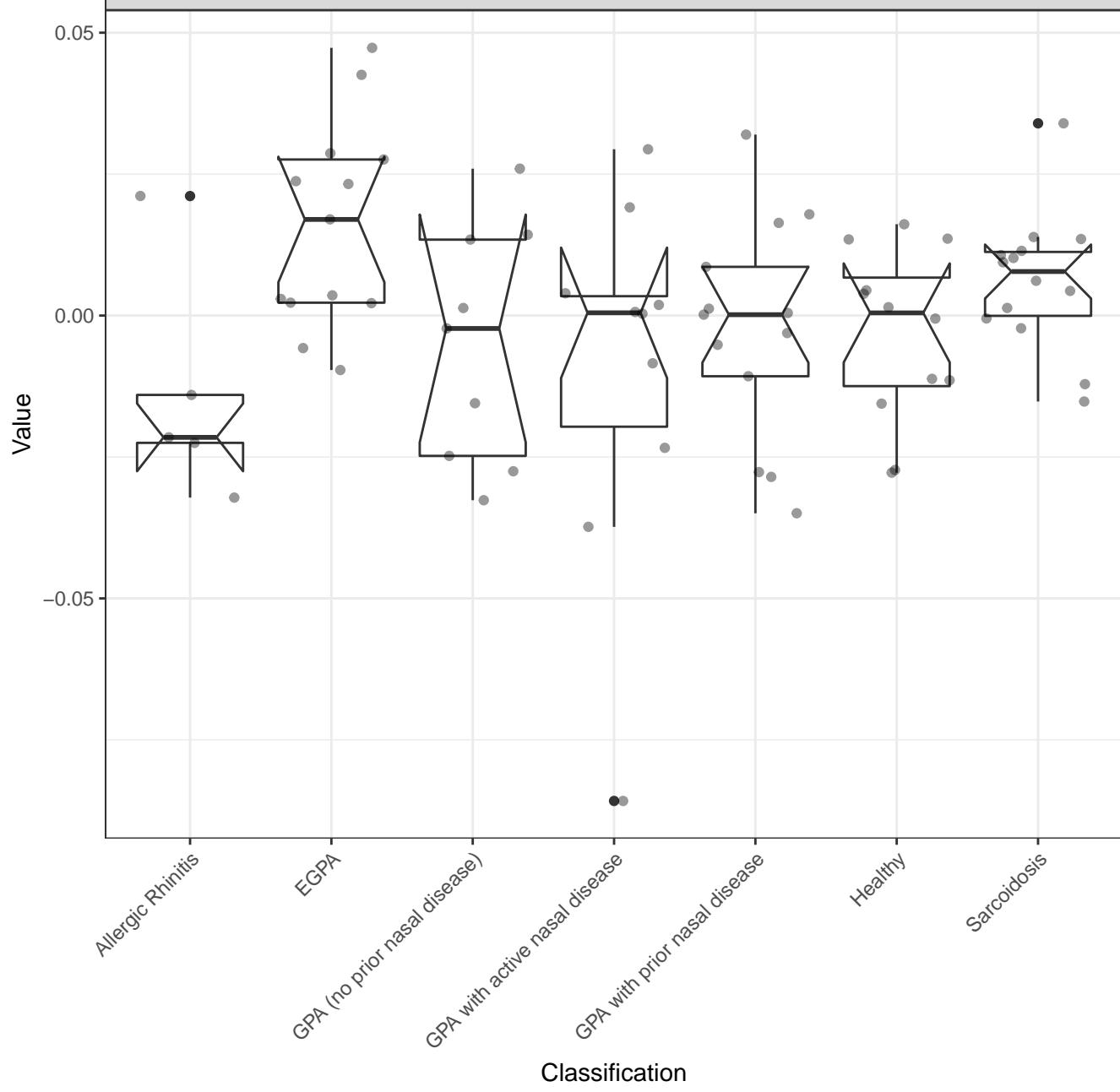
GPA with prior nasal disease

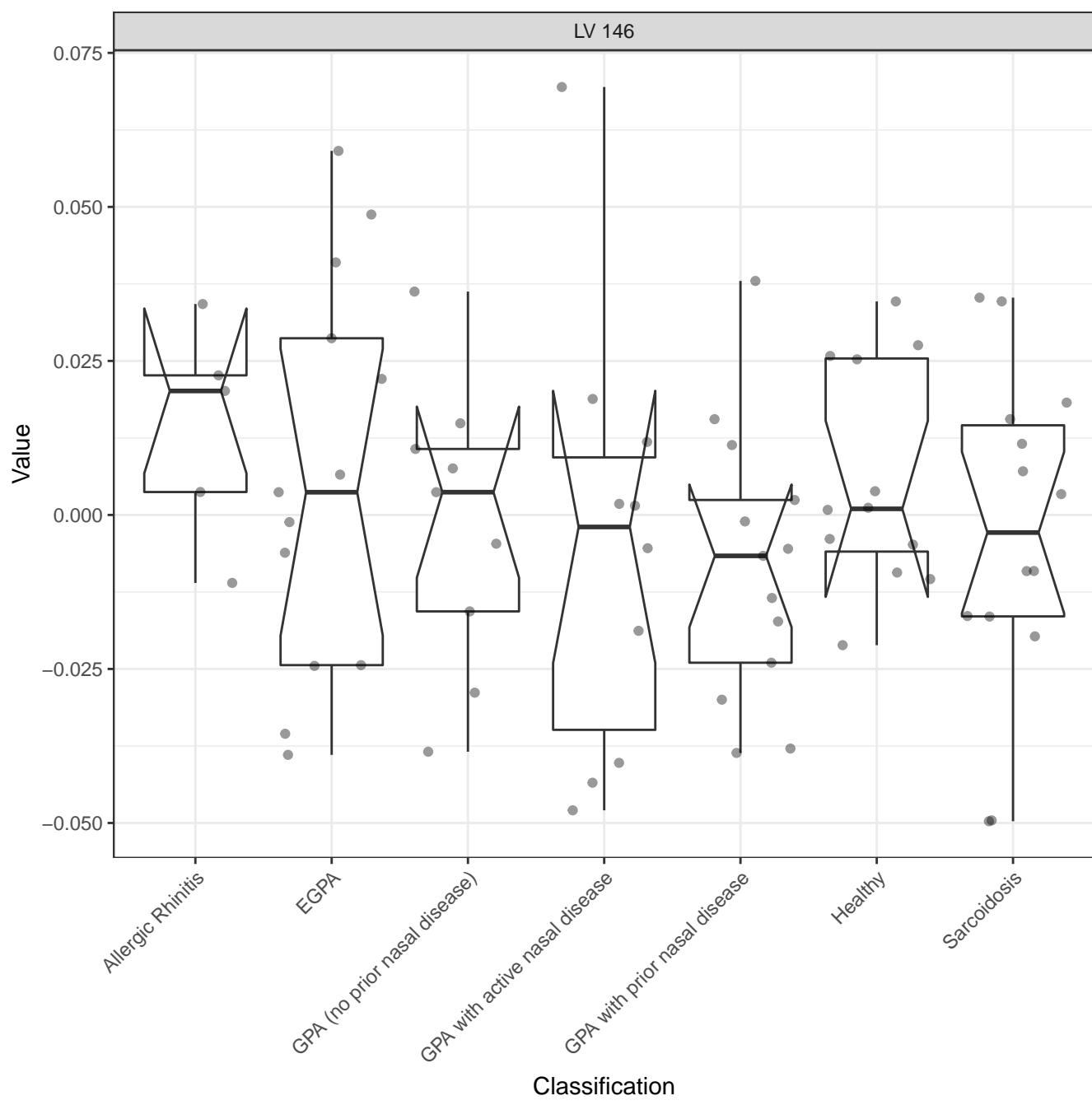
Healthy

Sarcoidosis

Classification

LV 145





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

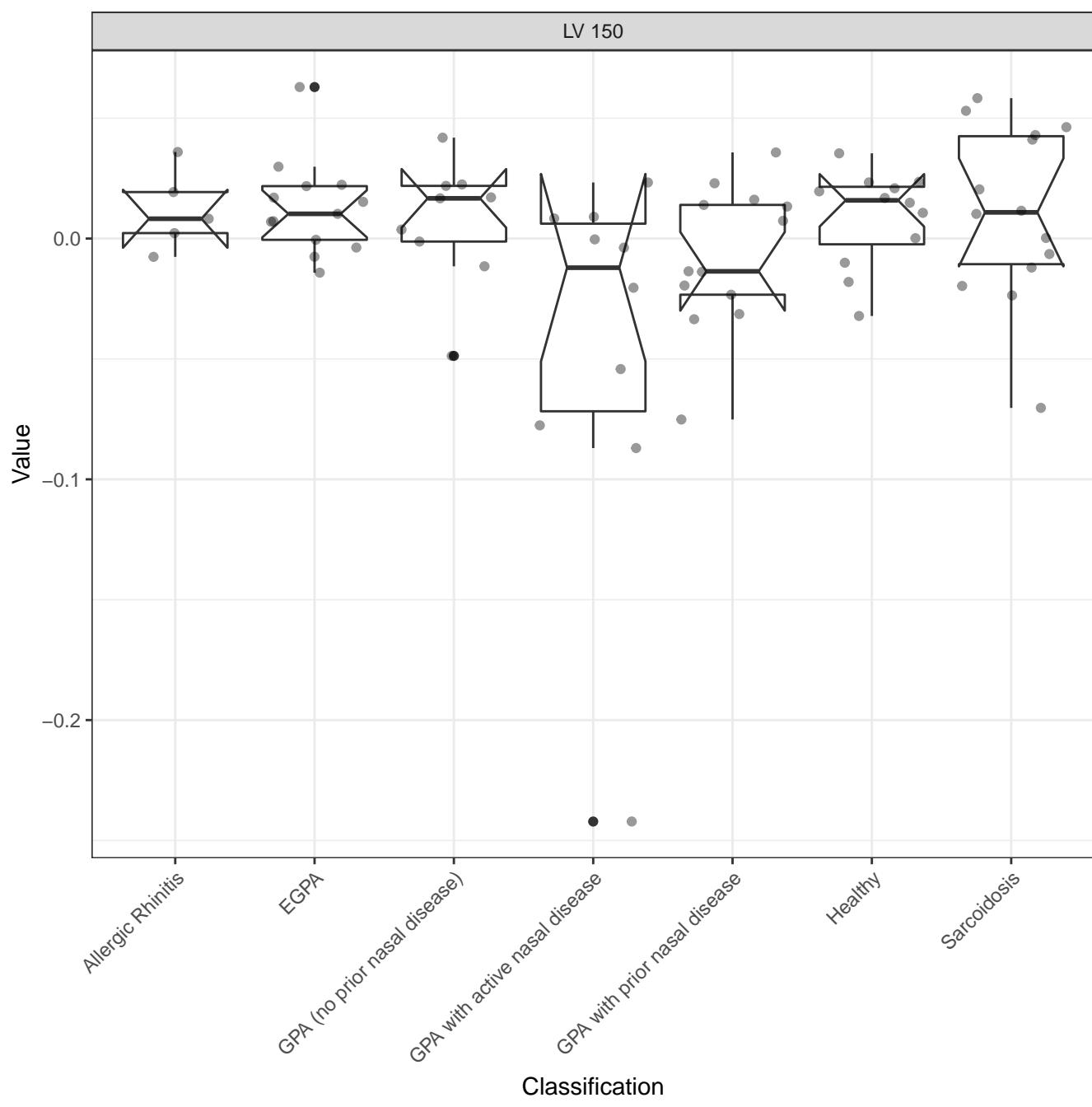
GPA with active nasal disease

GPA with prior nasal disease

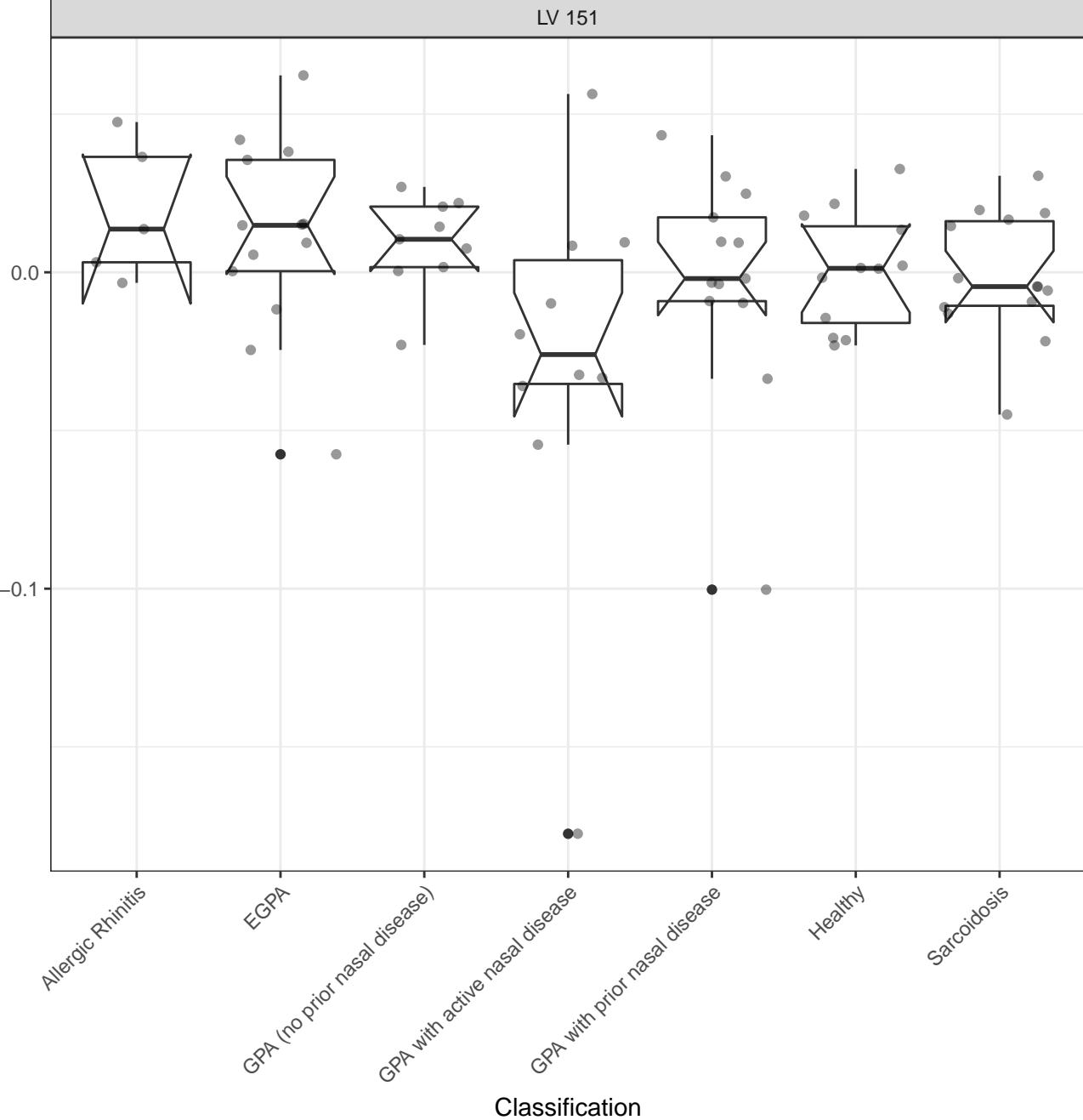
Healthy

Sarcoidosis

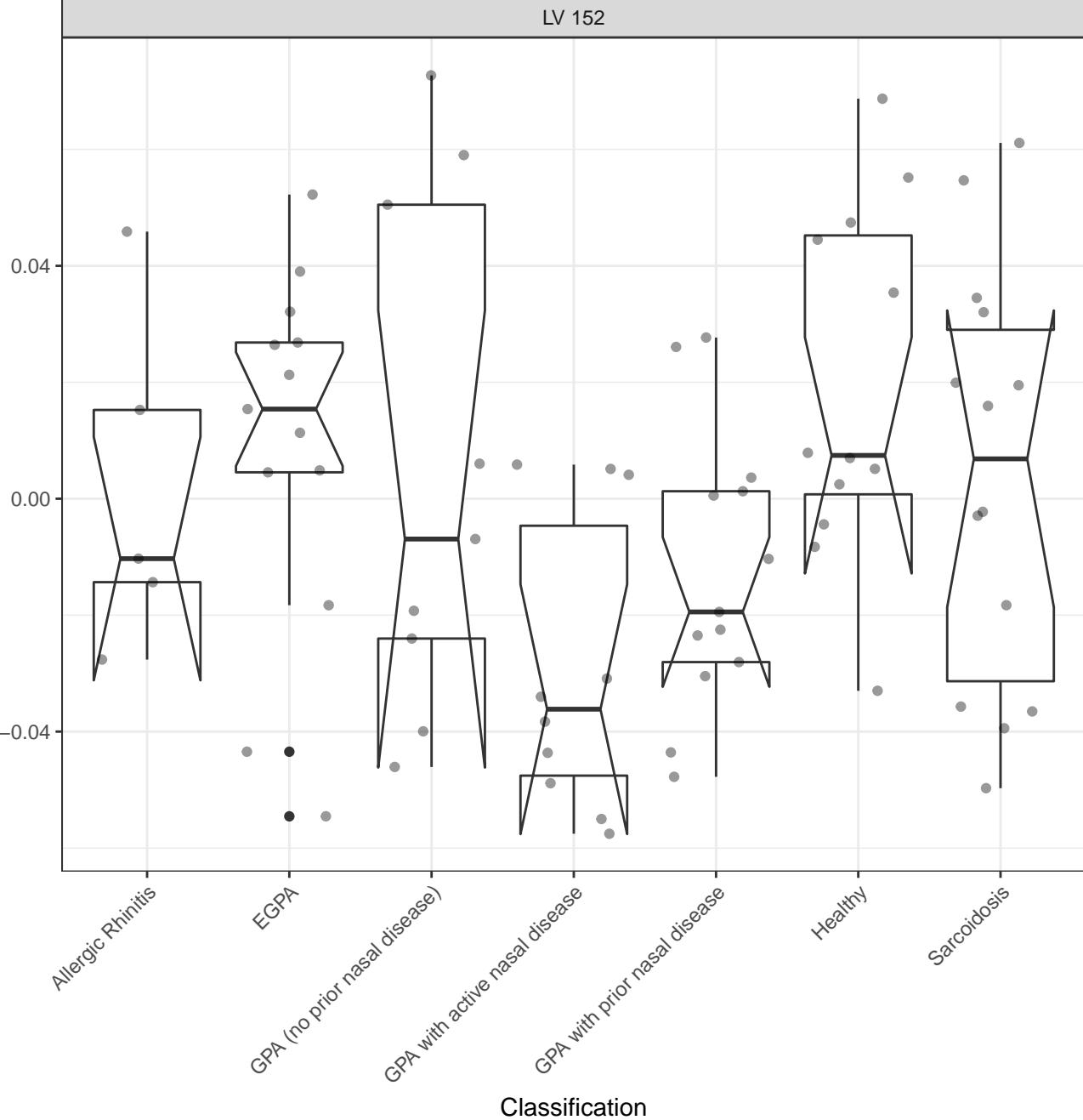
Classification



Value



Value



Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

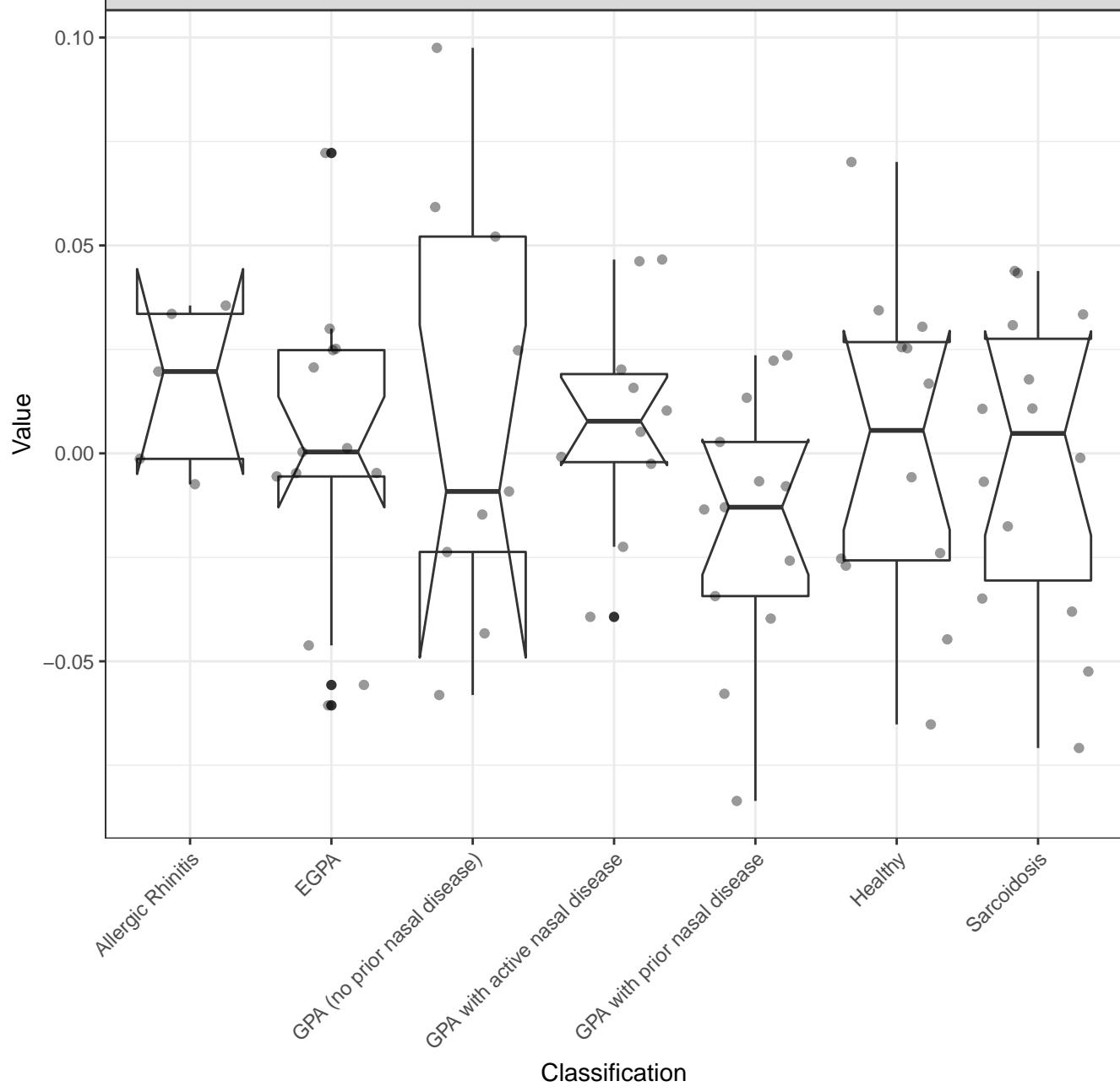
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

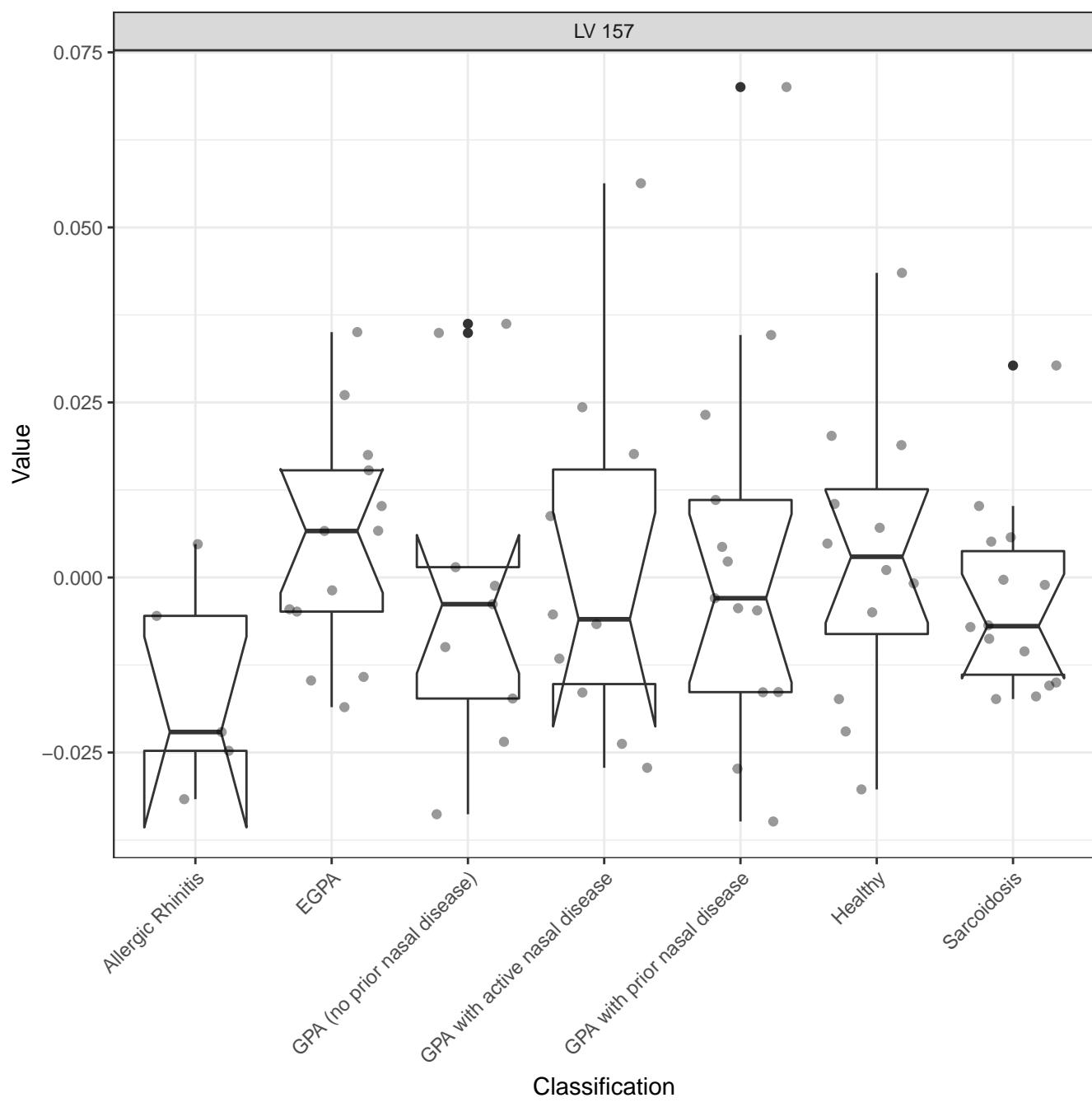
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 161,REACTOME\_TRNA\_AMINOACYLATION

Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

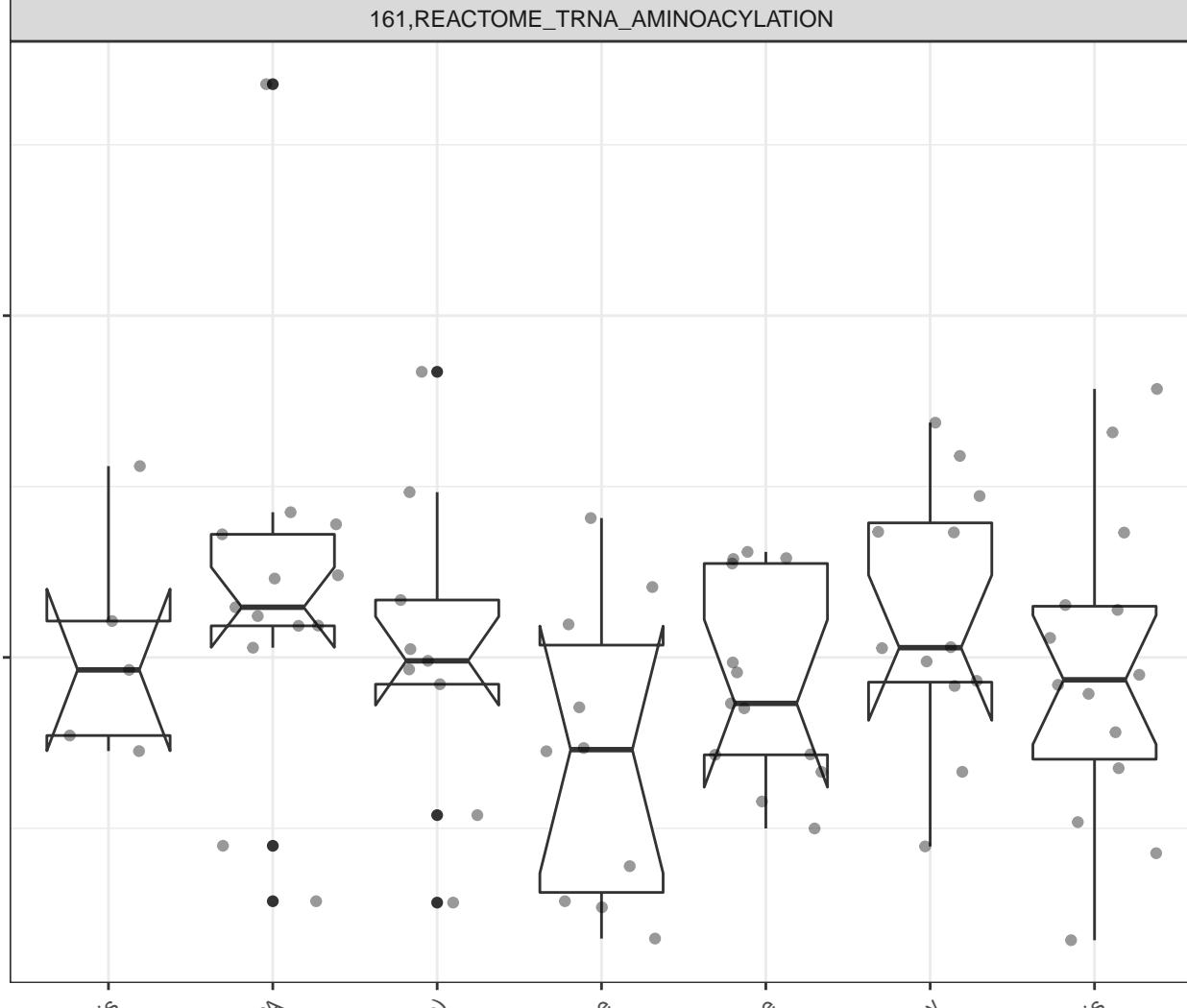
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

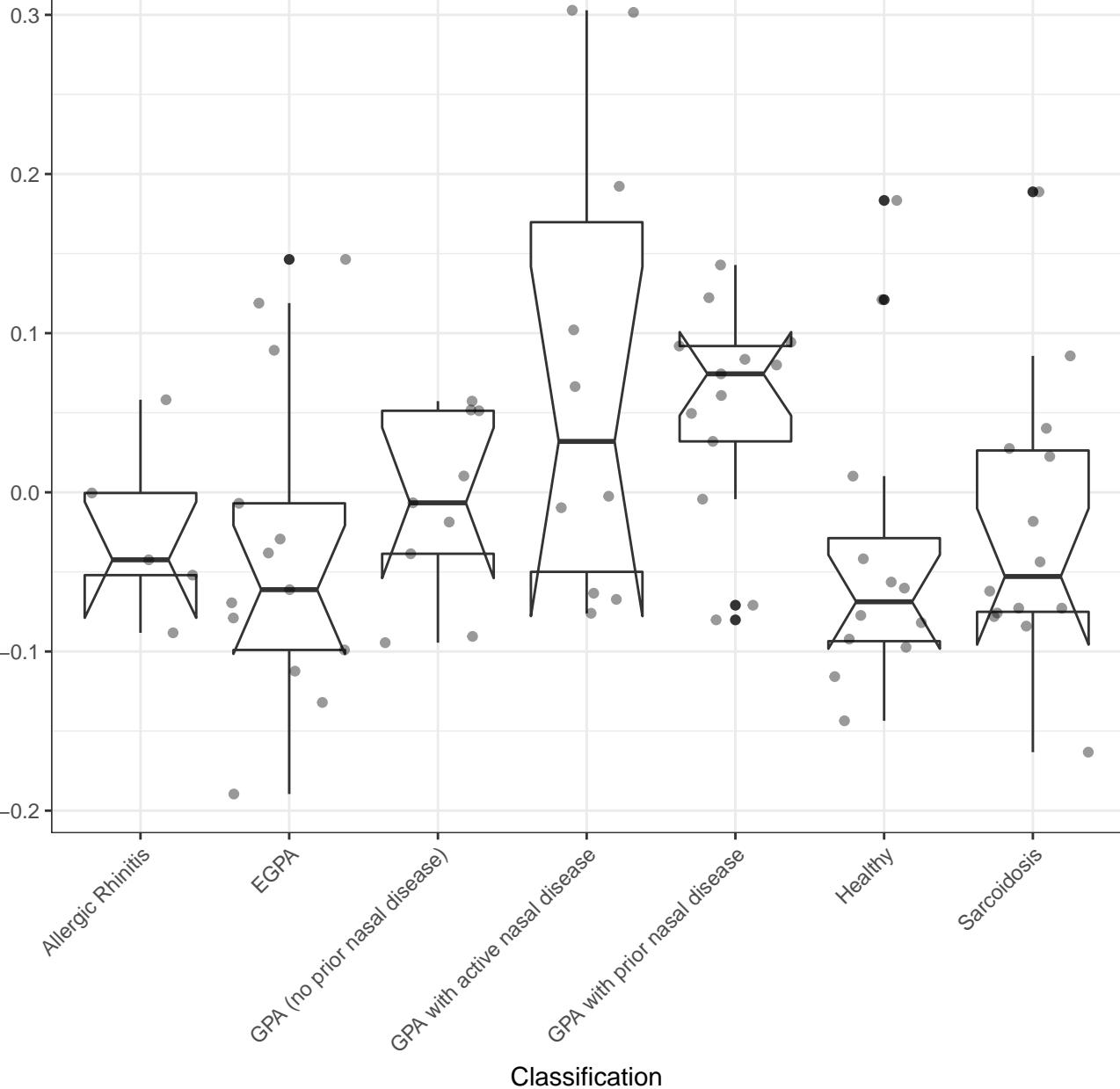
GPA with prior nasal disease

Healthy

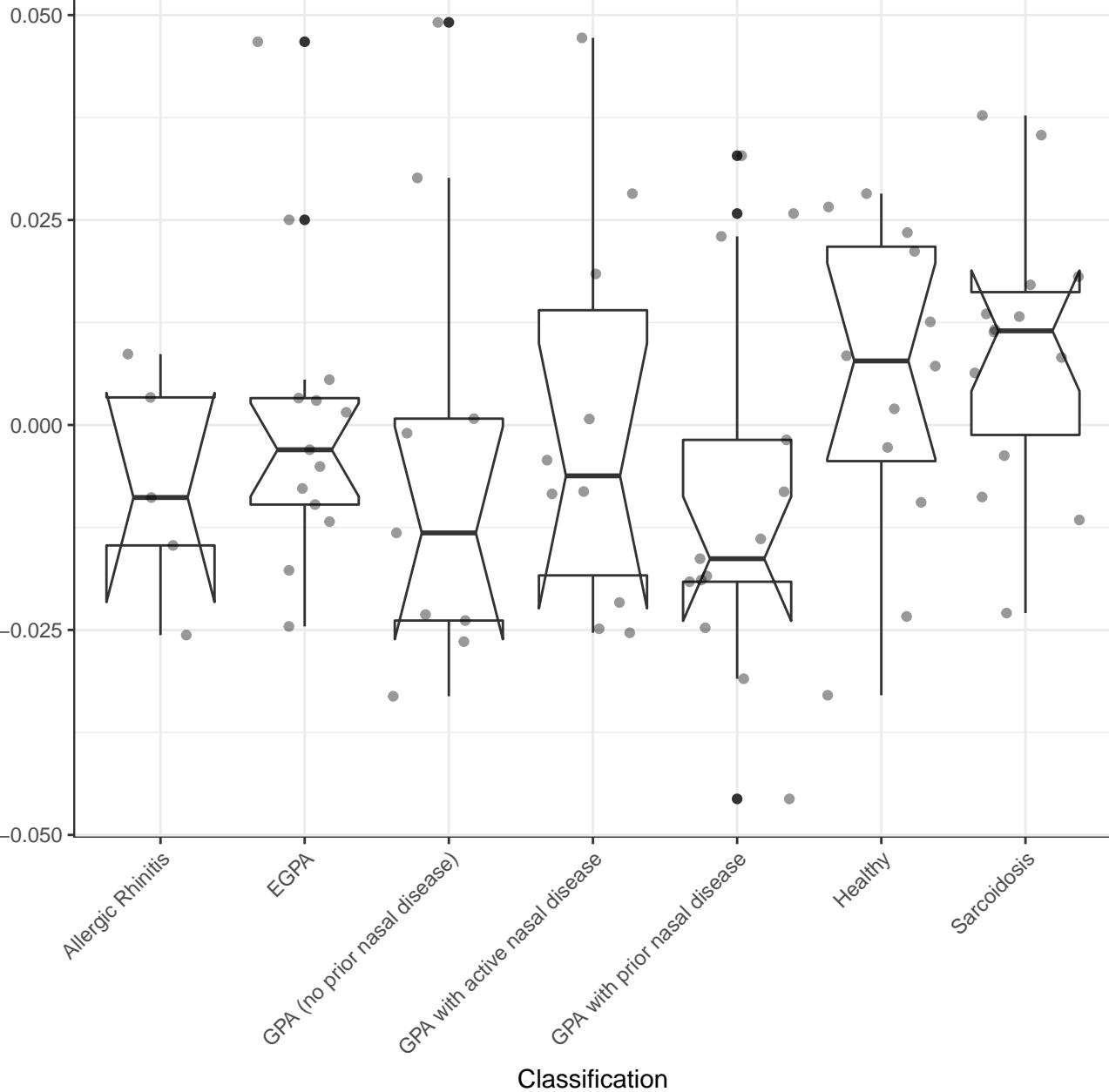
Sarcoidosis

Classification

Value



Value



Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

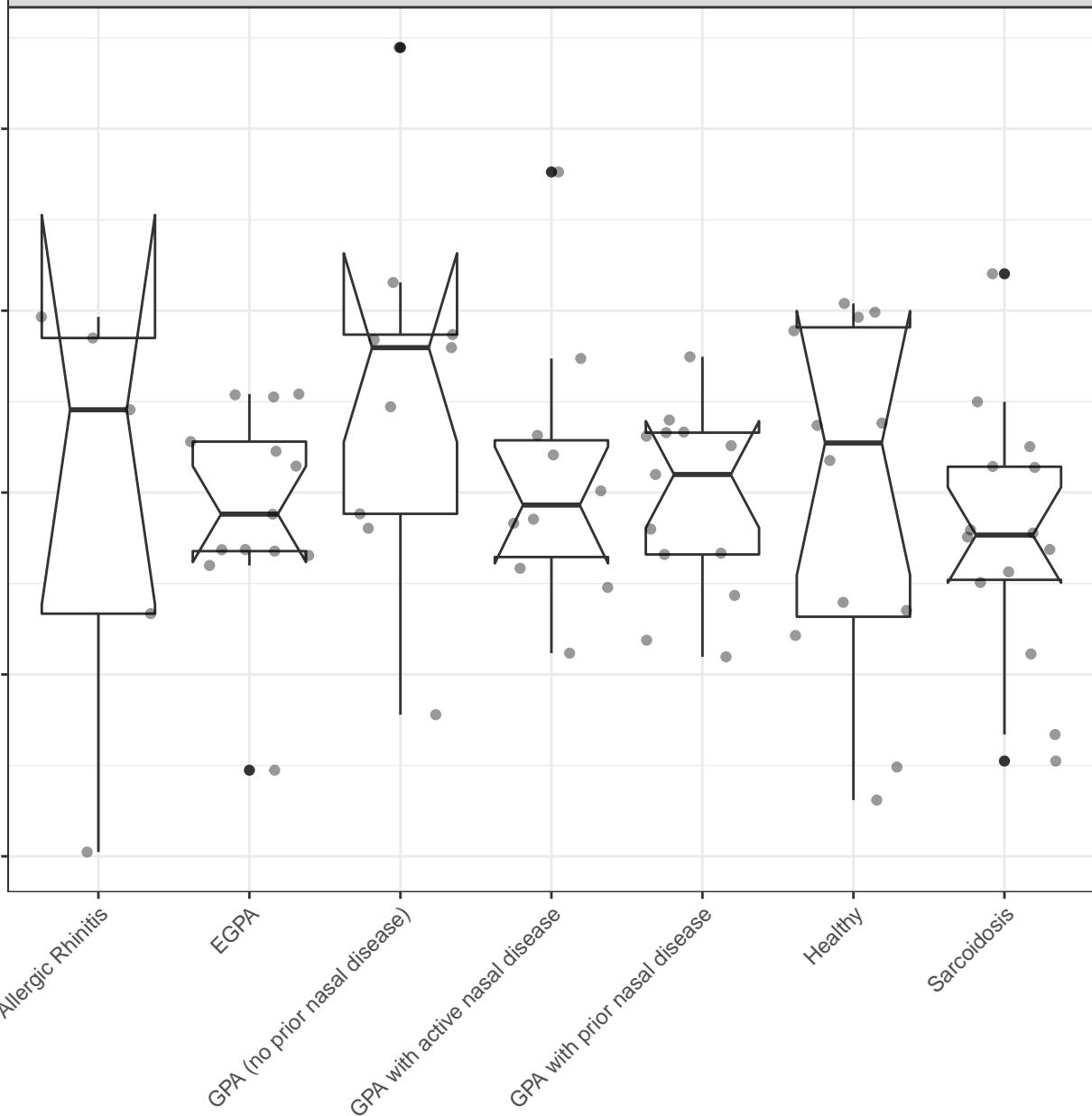
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 171,KEGG\_FATTY\_ACID\_METABOLISM

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

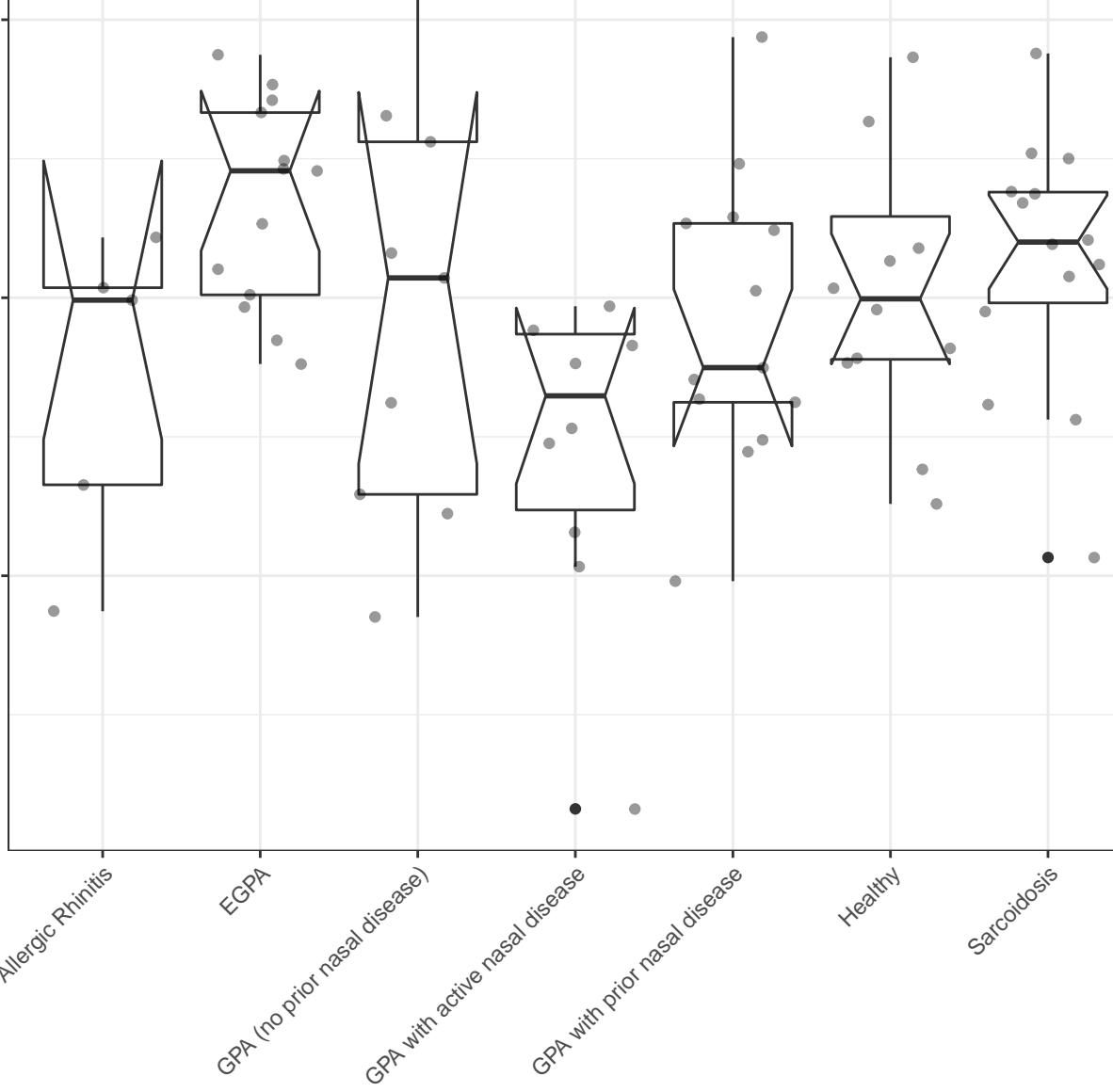
GPA with active nasal disease

Classification

GPA with prior nasal disease

Healthy

Sarcoidosis



Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

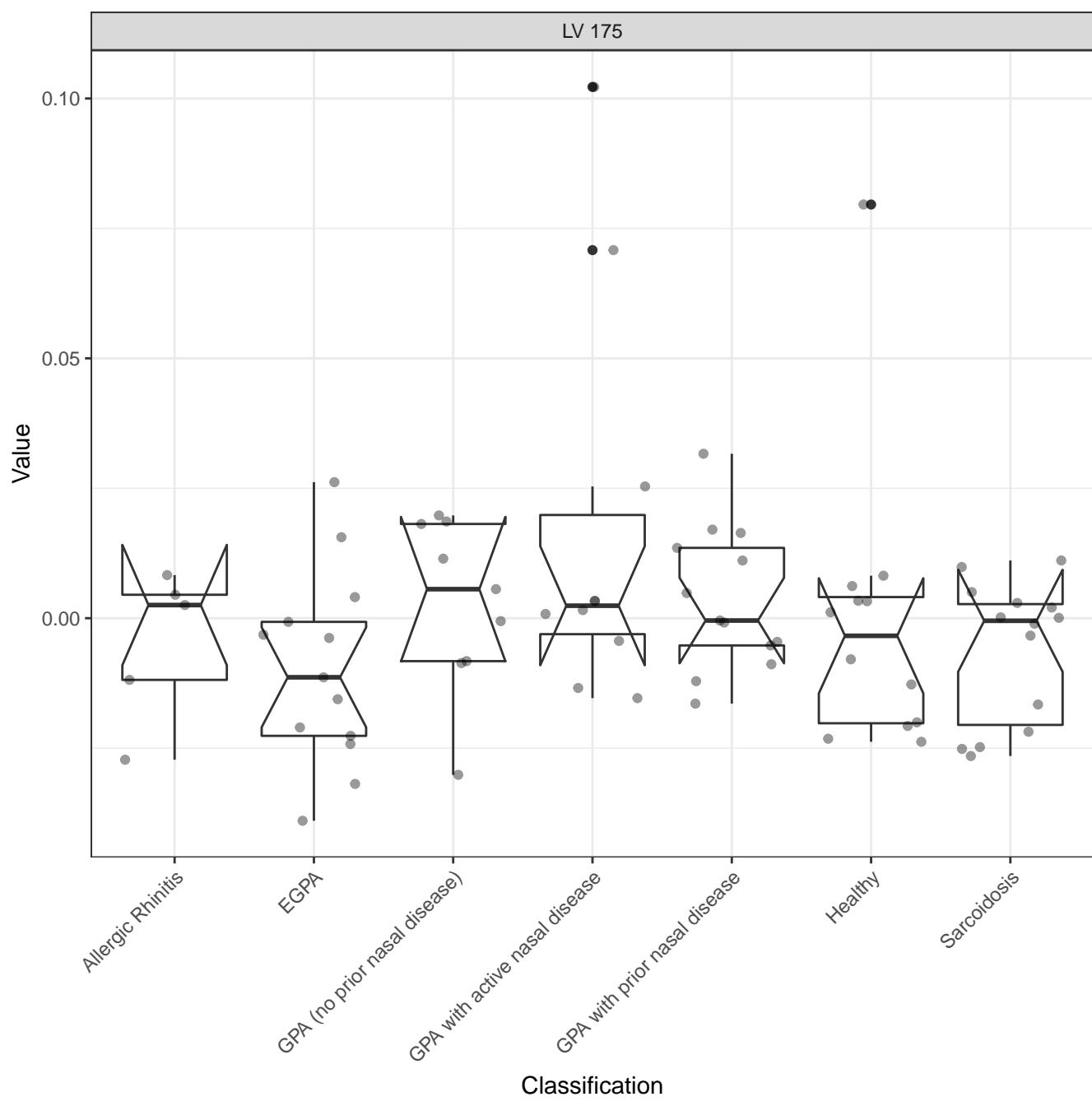
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



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

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

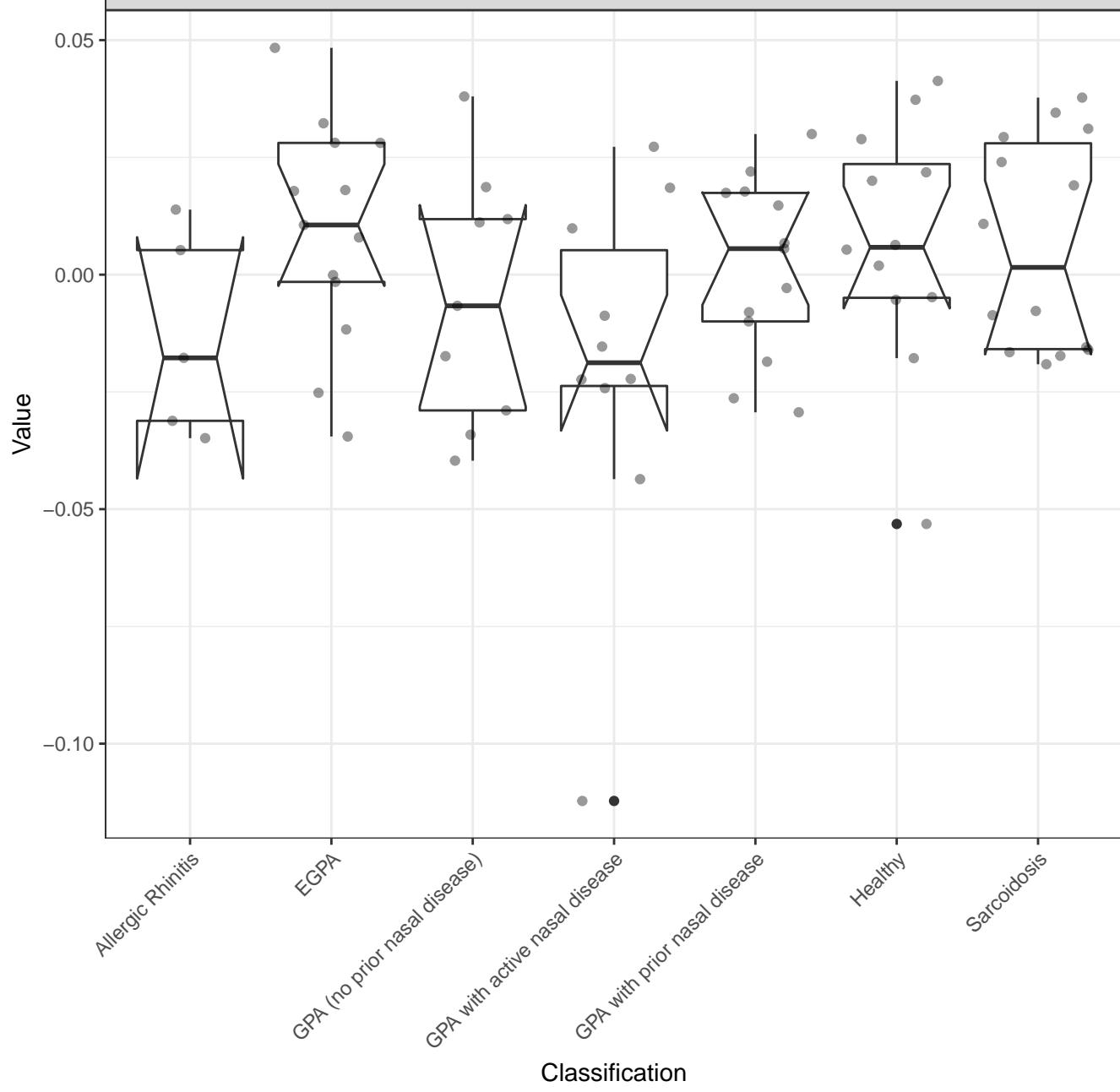
GPA with active nasal disease

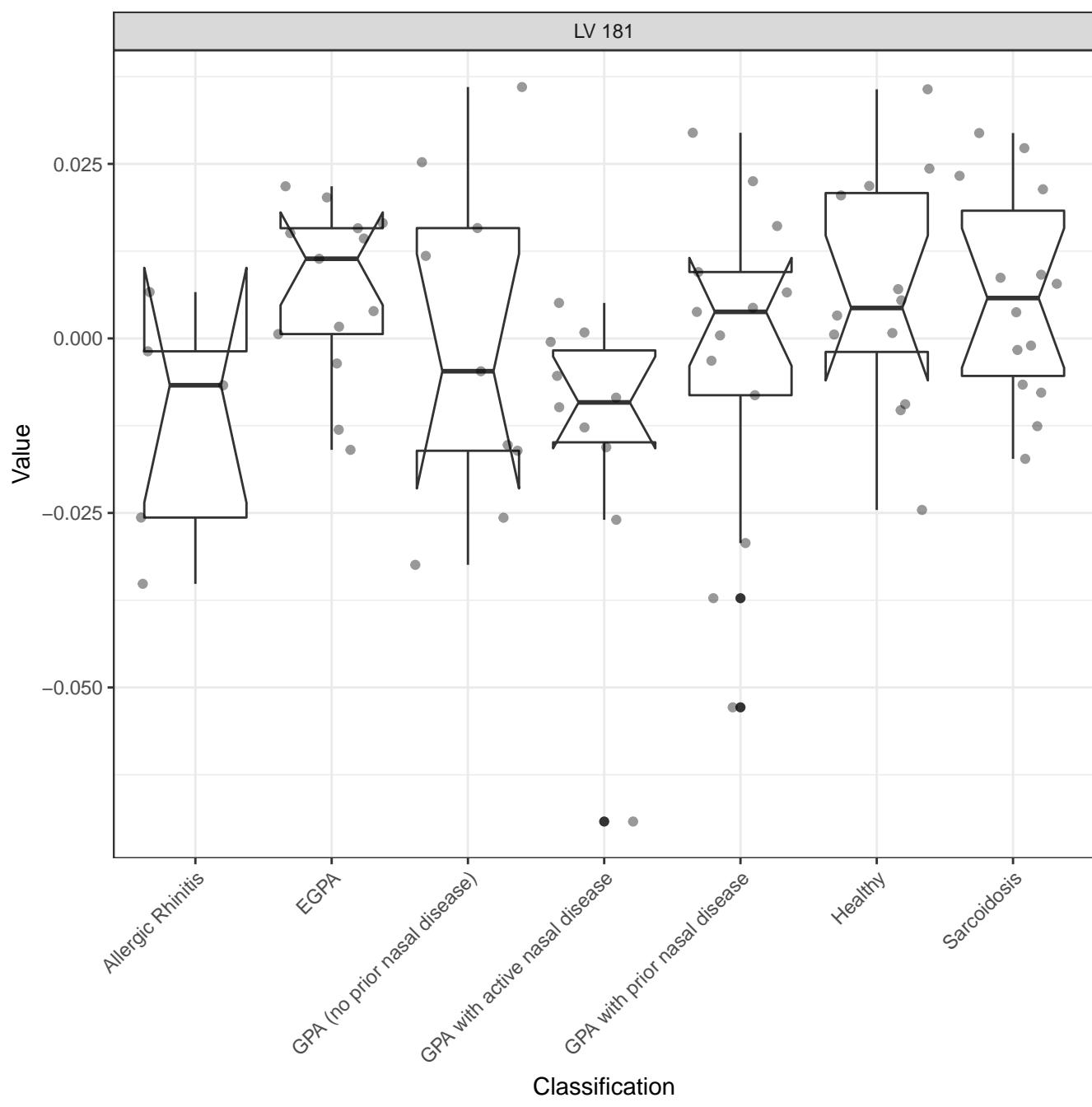
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

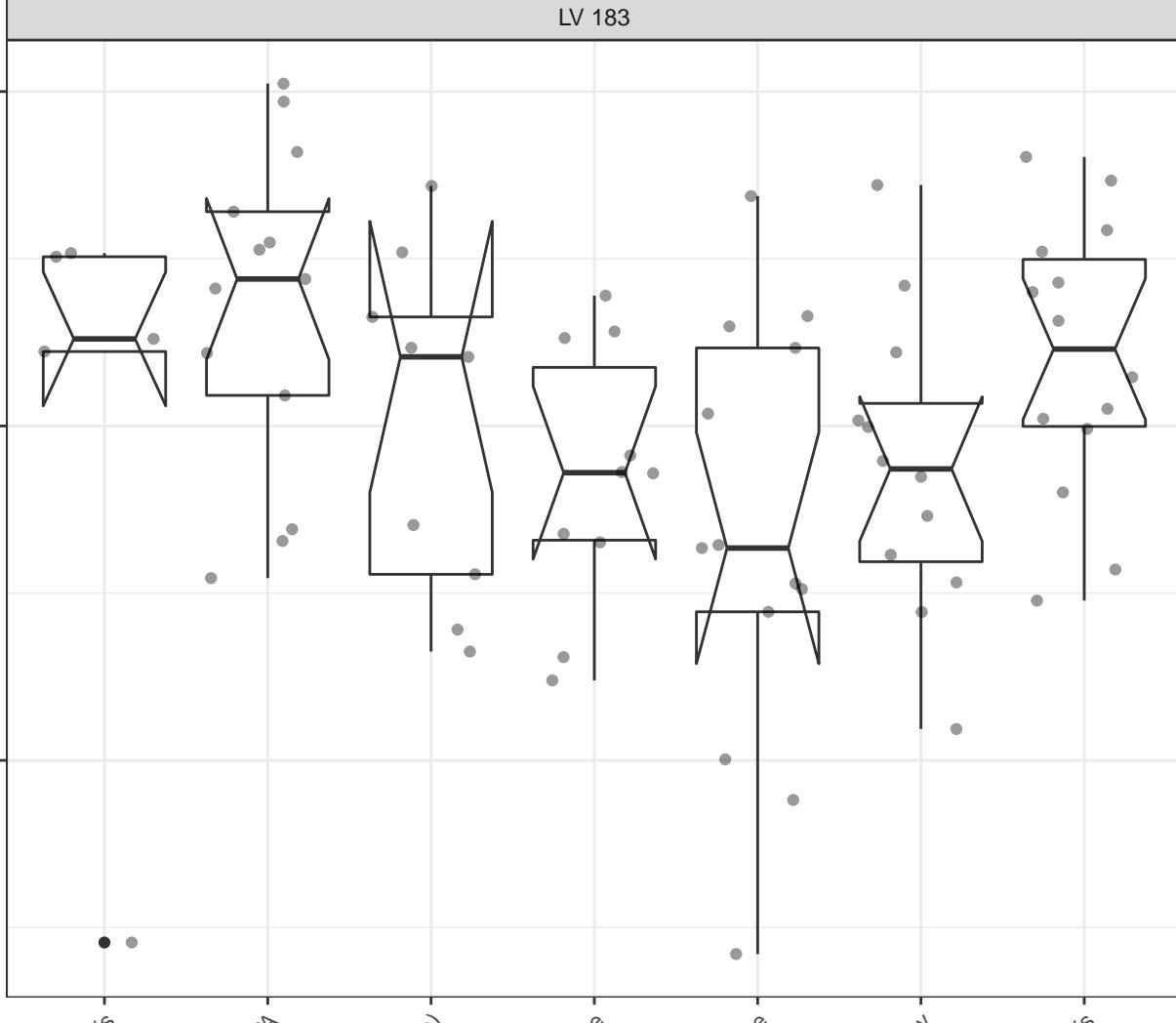
GPA with active nasal disease

GPA with prior nasal disease

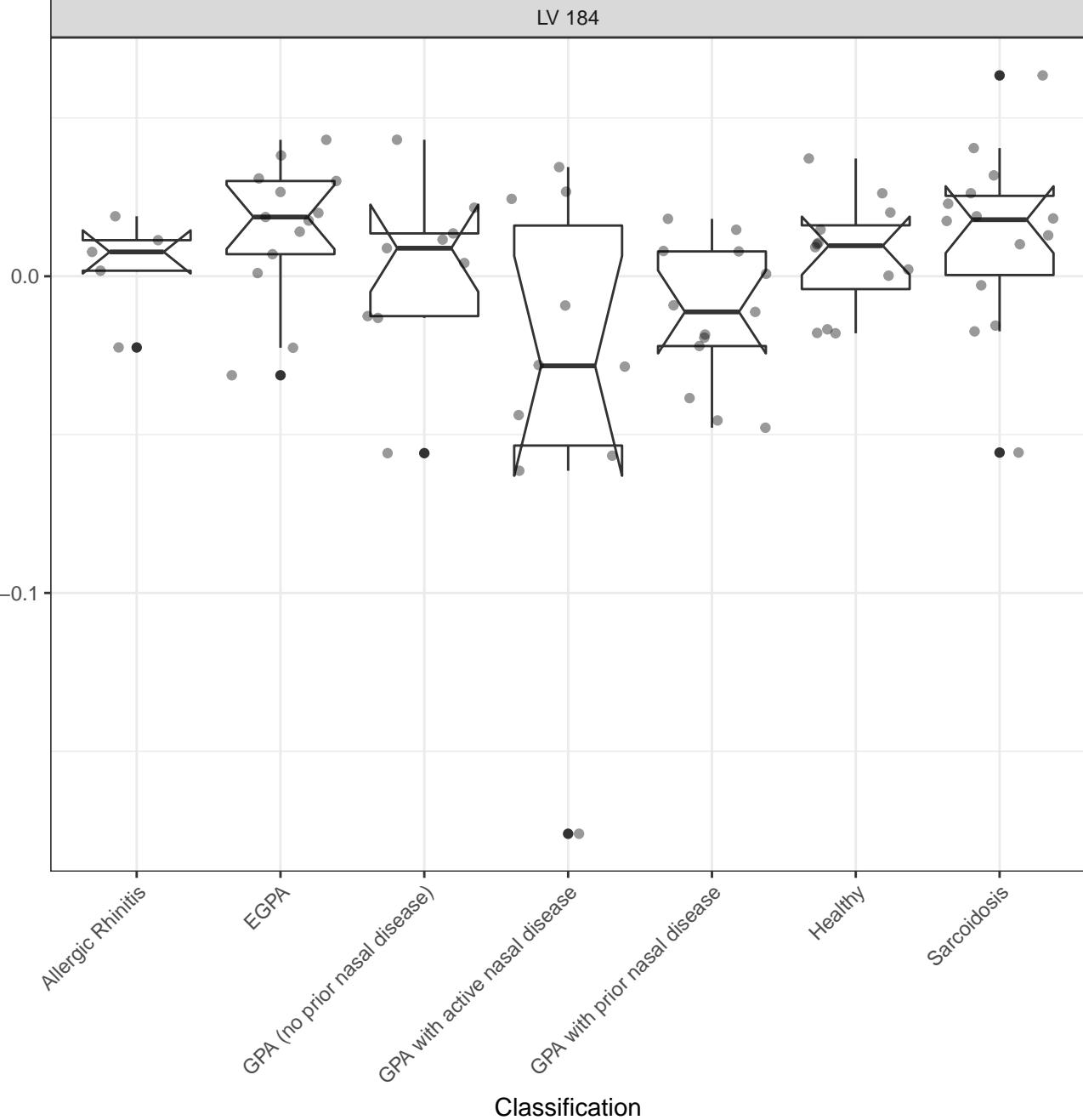
Healthy

Sarcoidosis

Classification



Value



Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

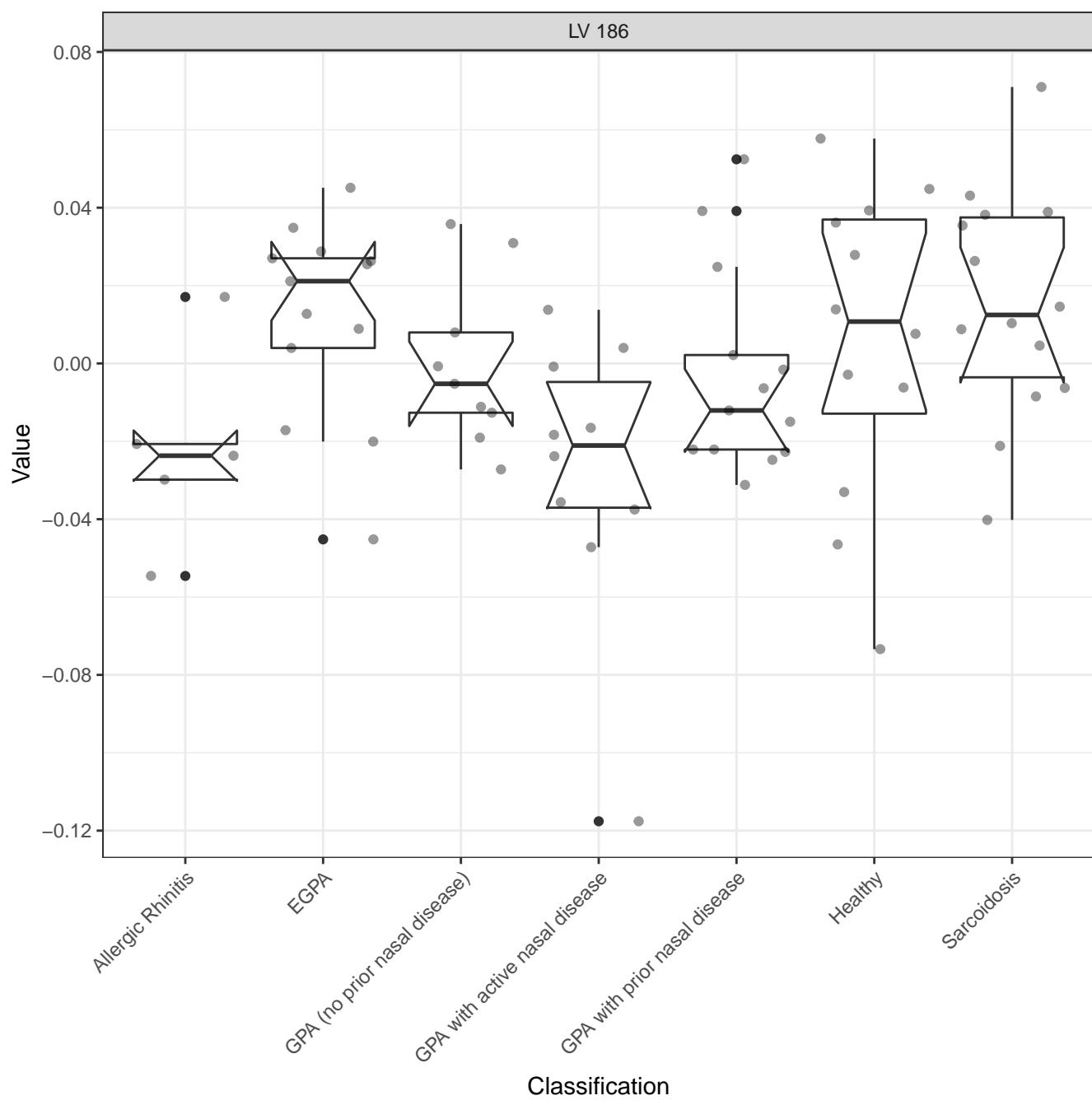
GPA with active nasal disease

GPA with prior nasal disease

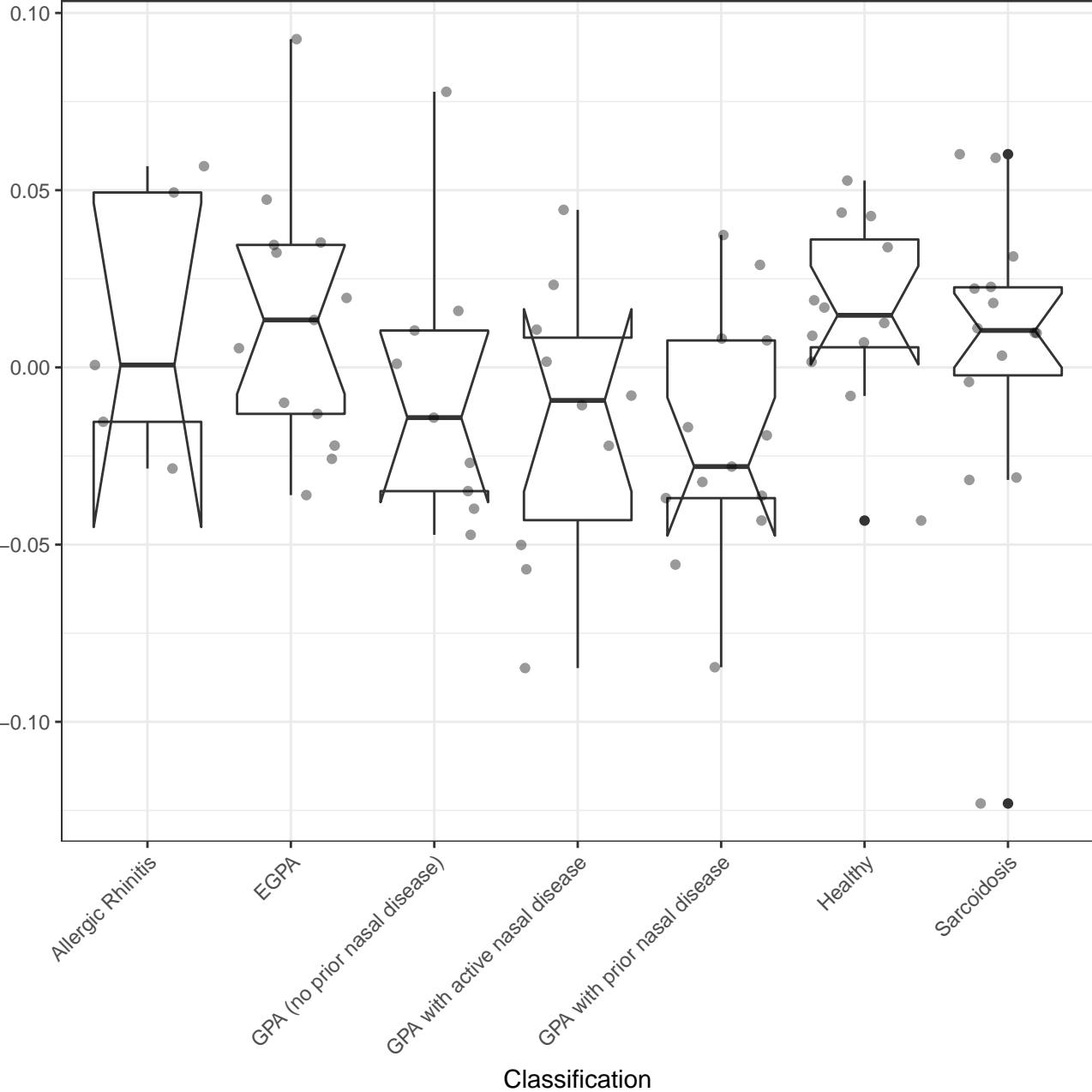
Healthy

Sarcoidosis

Classification



Value



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

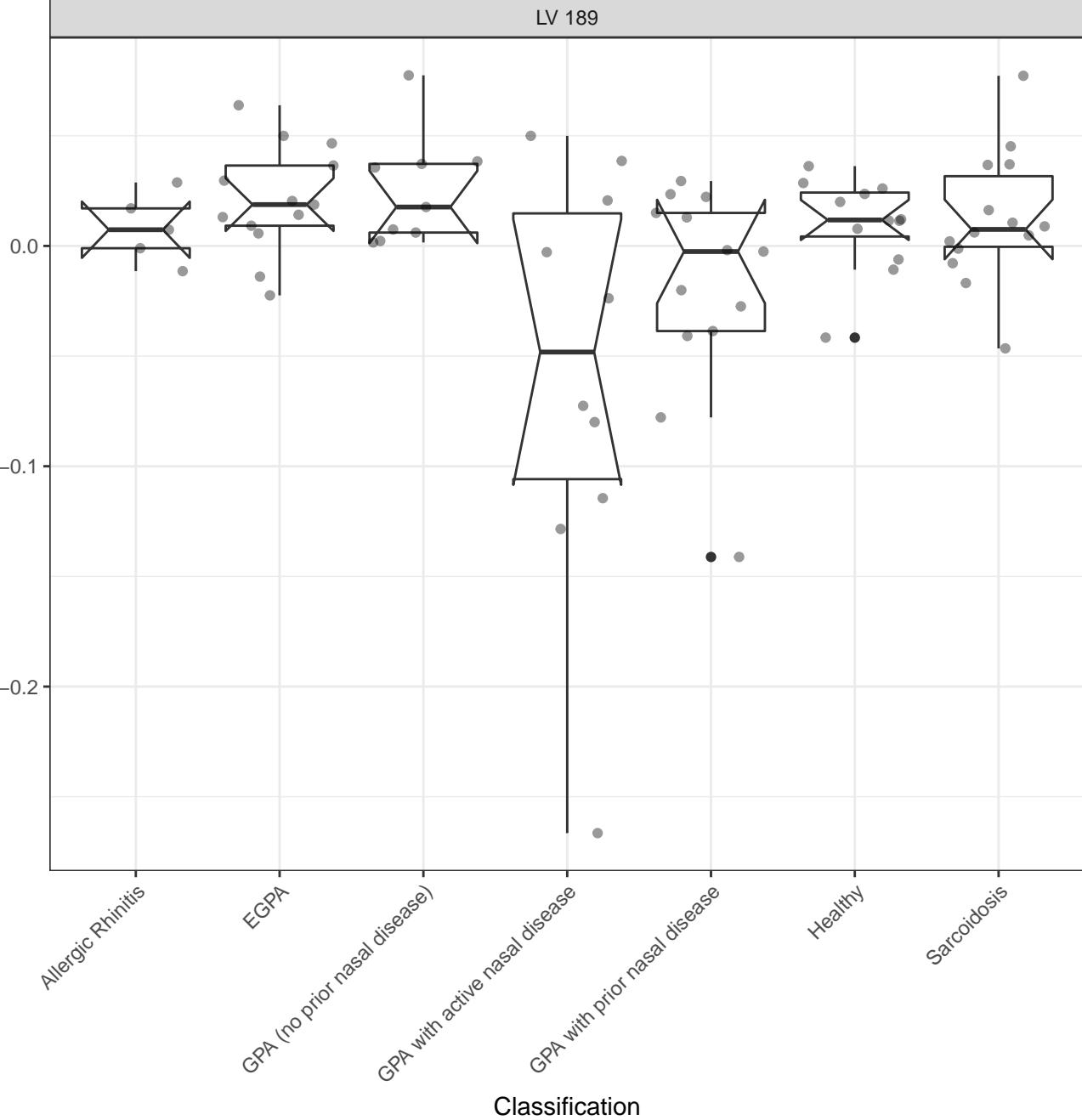
GPA with prior nasal disease

Healthy

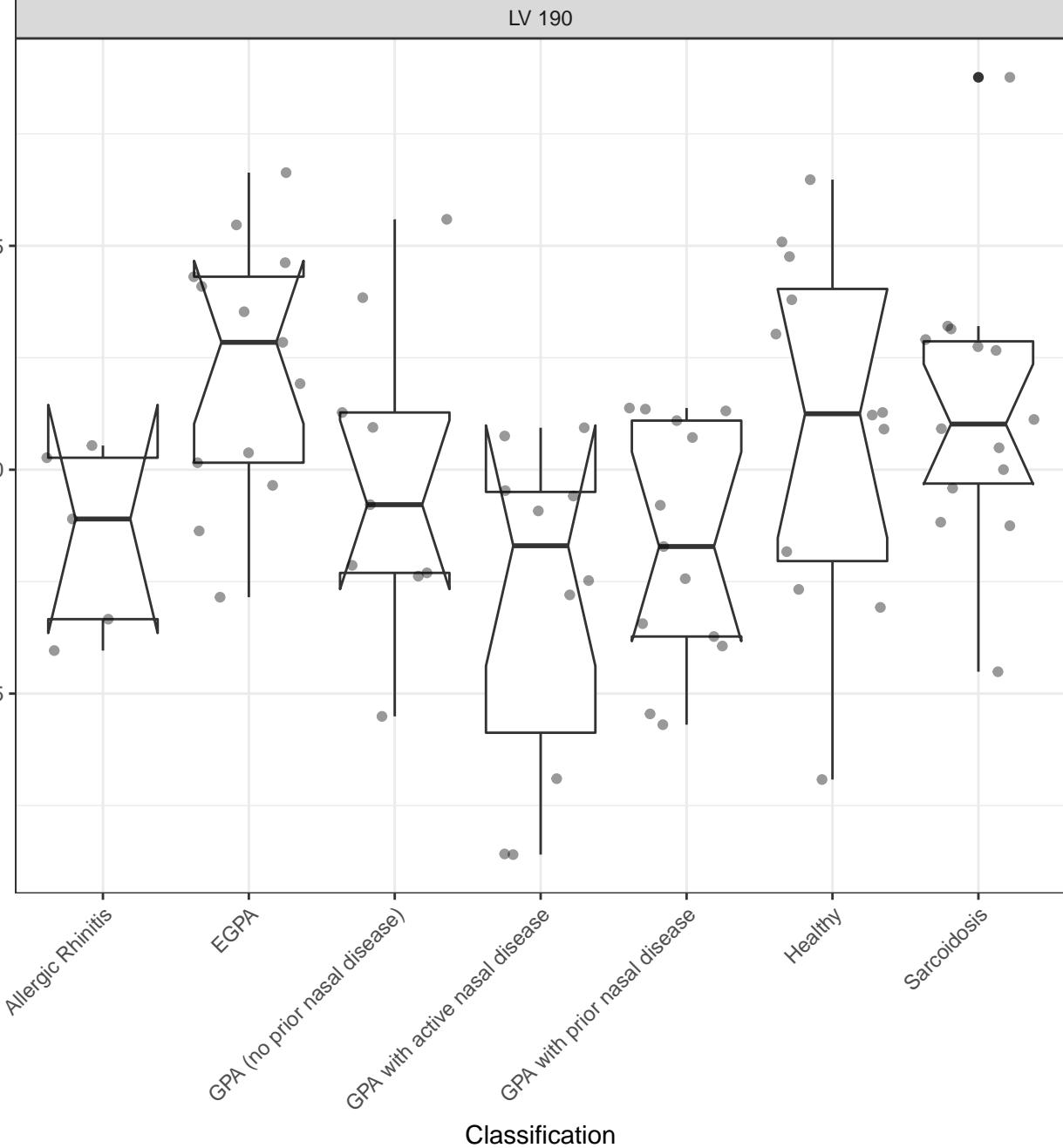
Sarcoidosis

Classification

Value



Value



Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

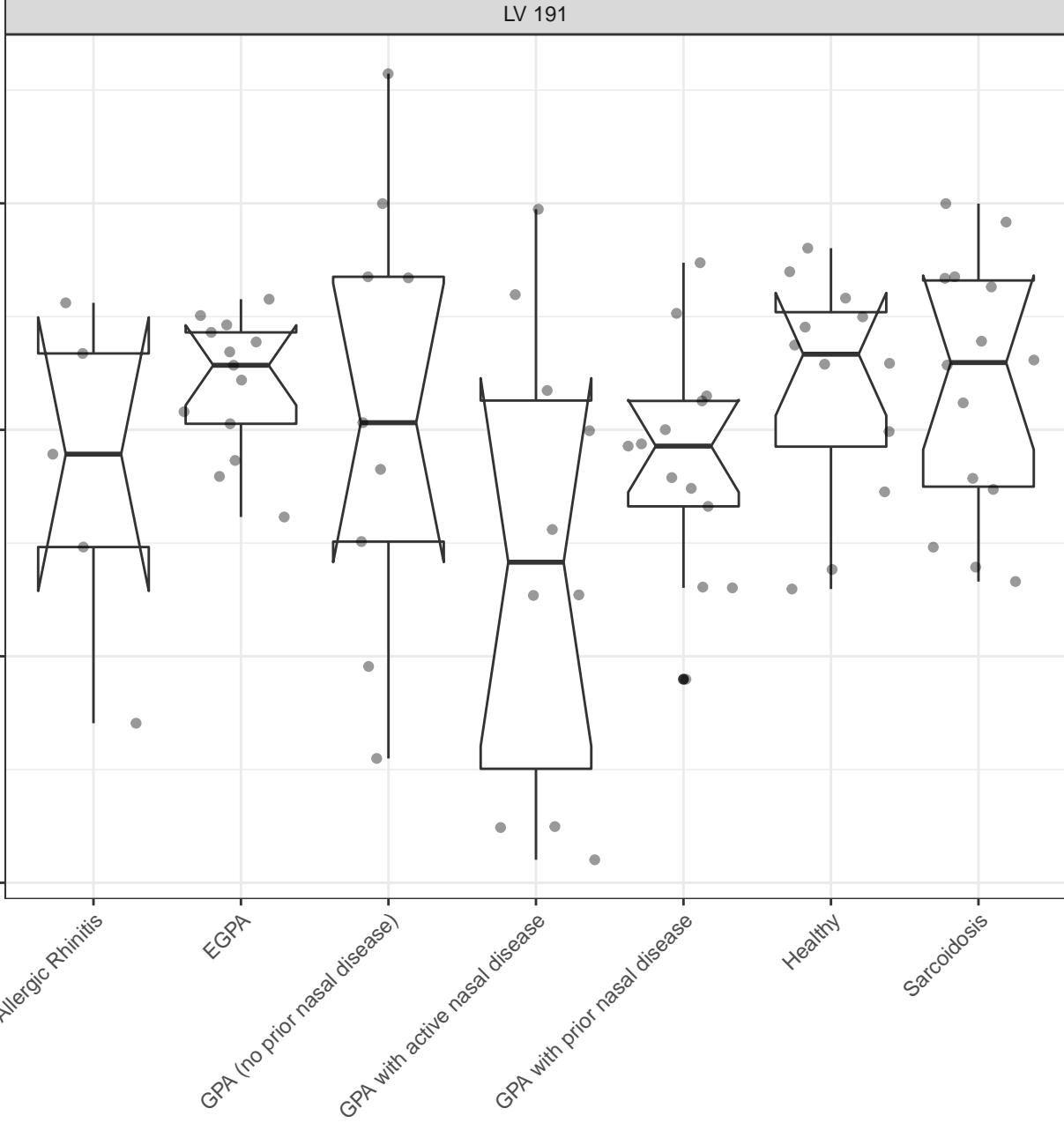
GPA with active nasal disease

Classification

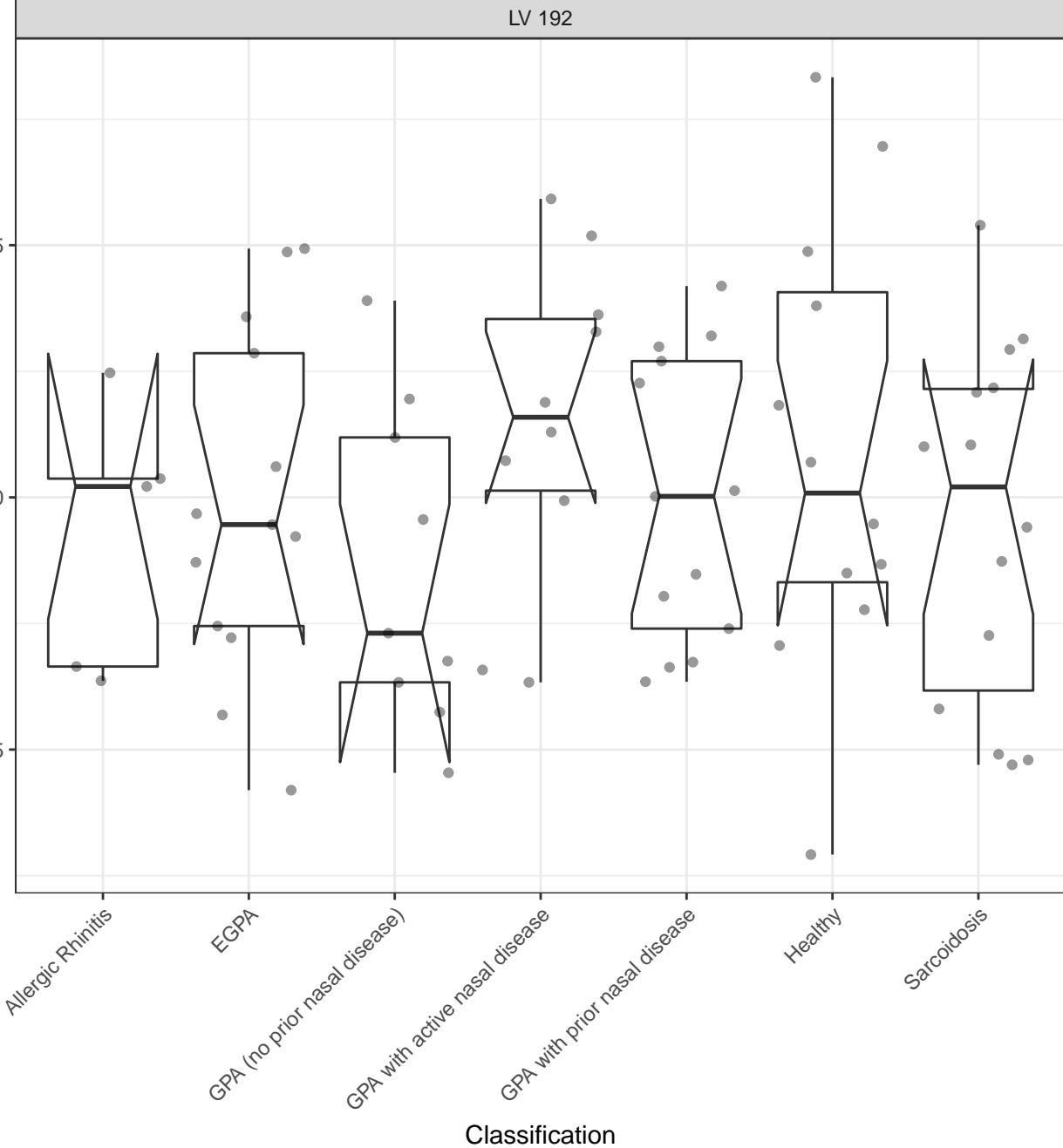
GPA with prior nasal disease

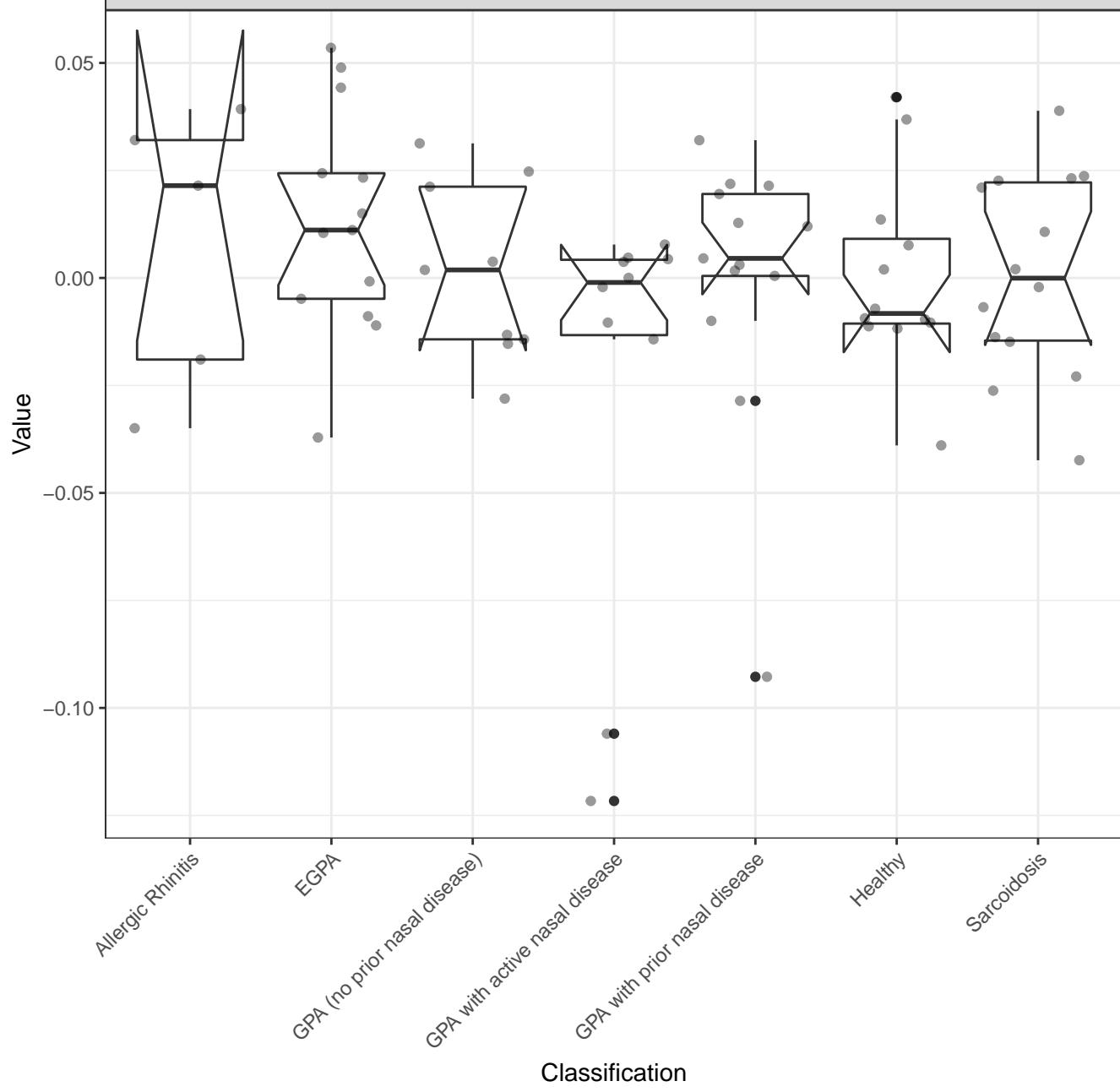
Healthy

Sarcoidosis



Value





Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15  
0.10  
0.05  
0.00  
-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

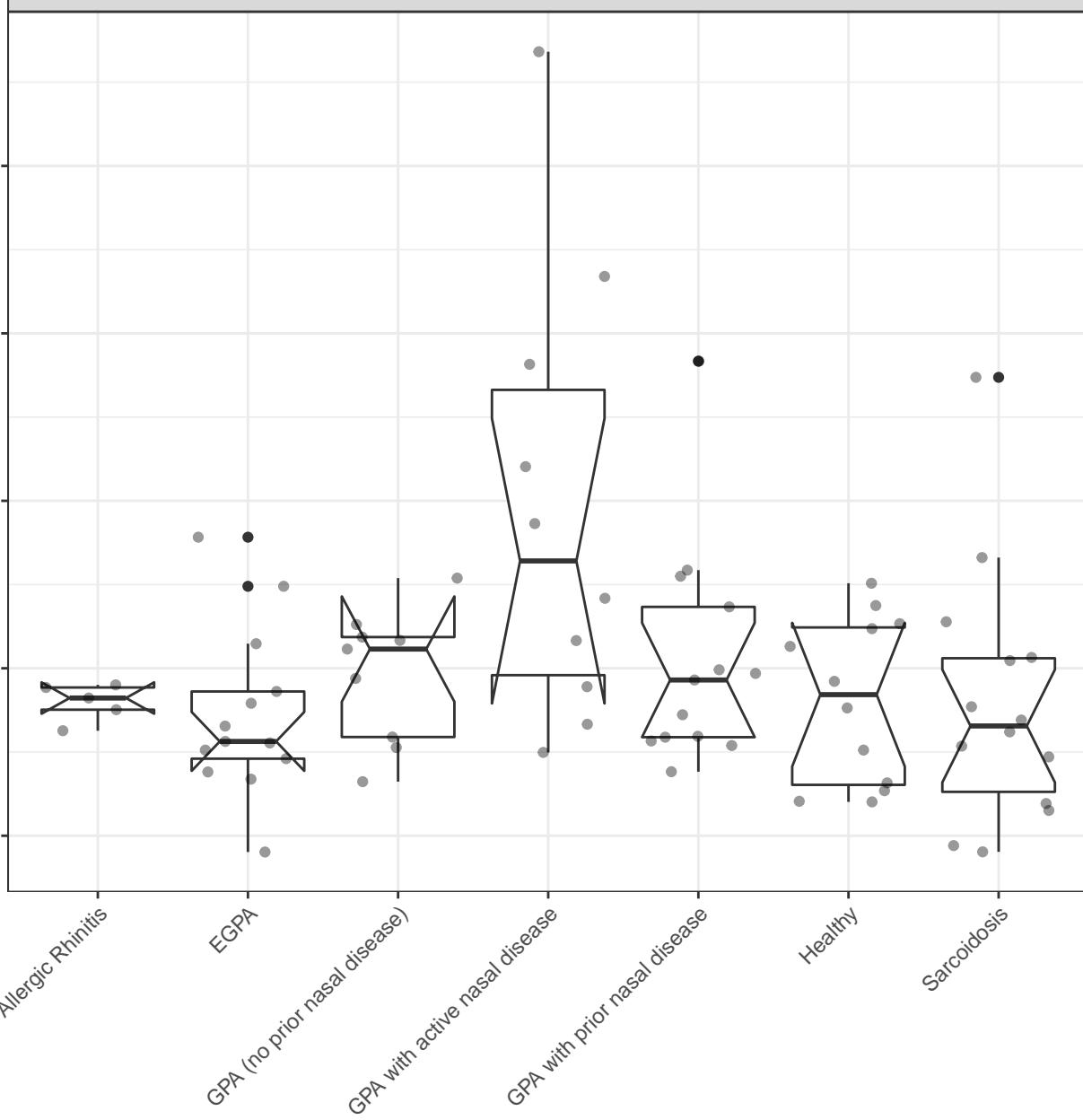
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

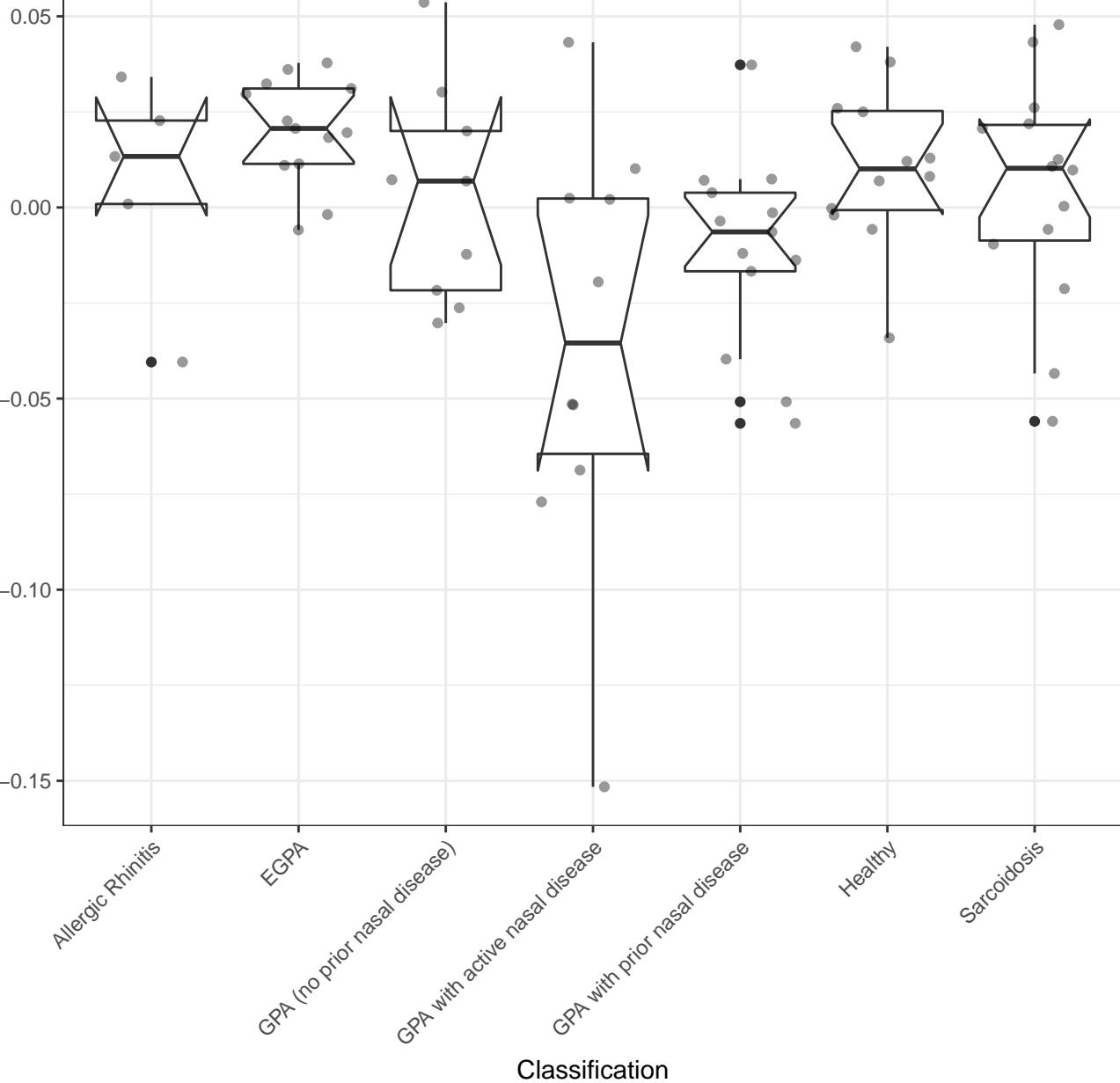
Healthy

Sarcoidosis

Classification

## 197,KEGG\_ERBB\_SIGNALING\_PATHWAY

Value



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.02

0.00

-0.02

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

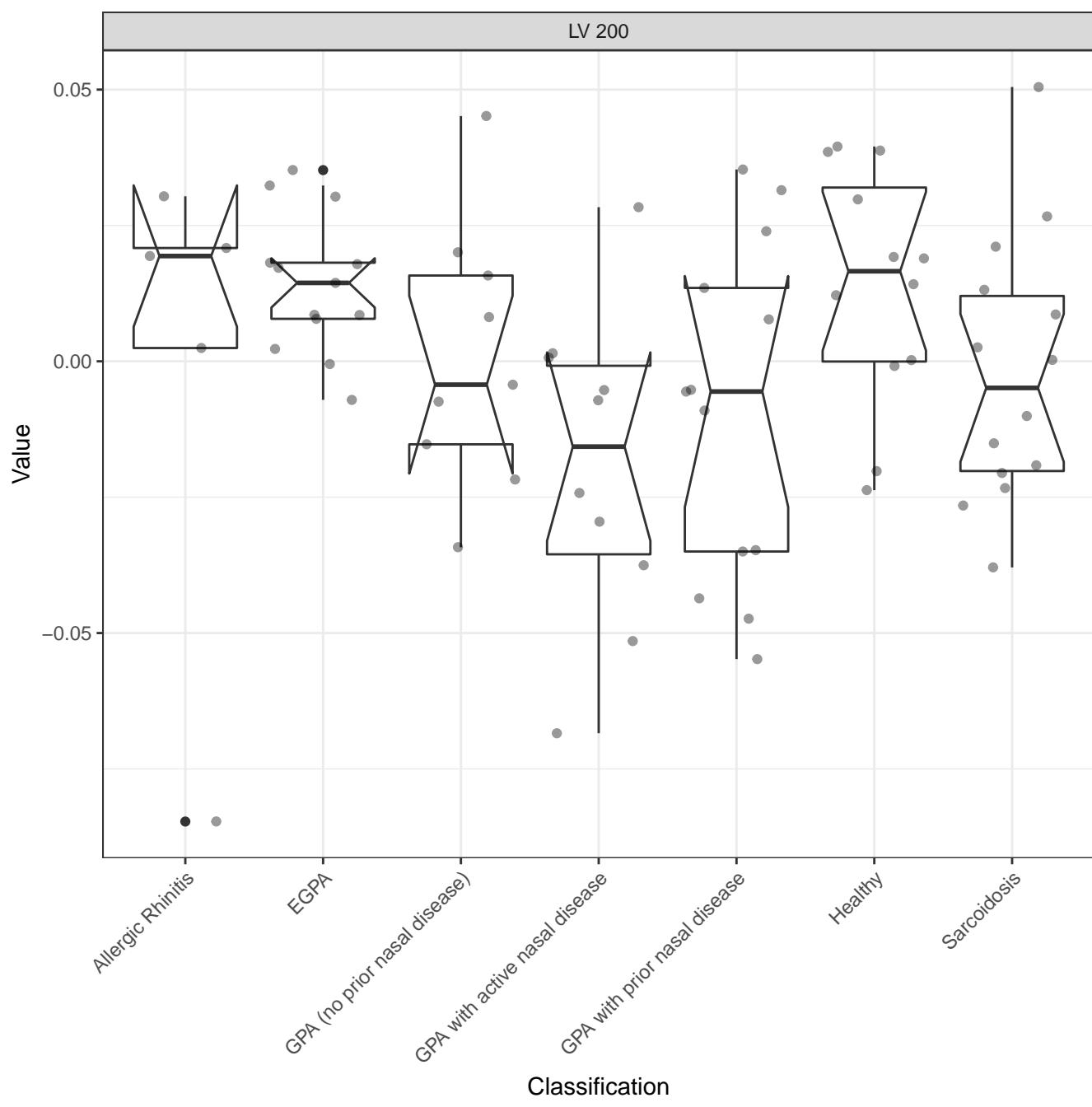
GPA with active nasal disease

GPA with prior nasal disease

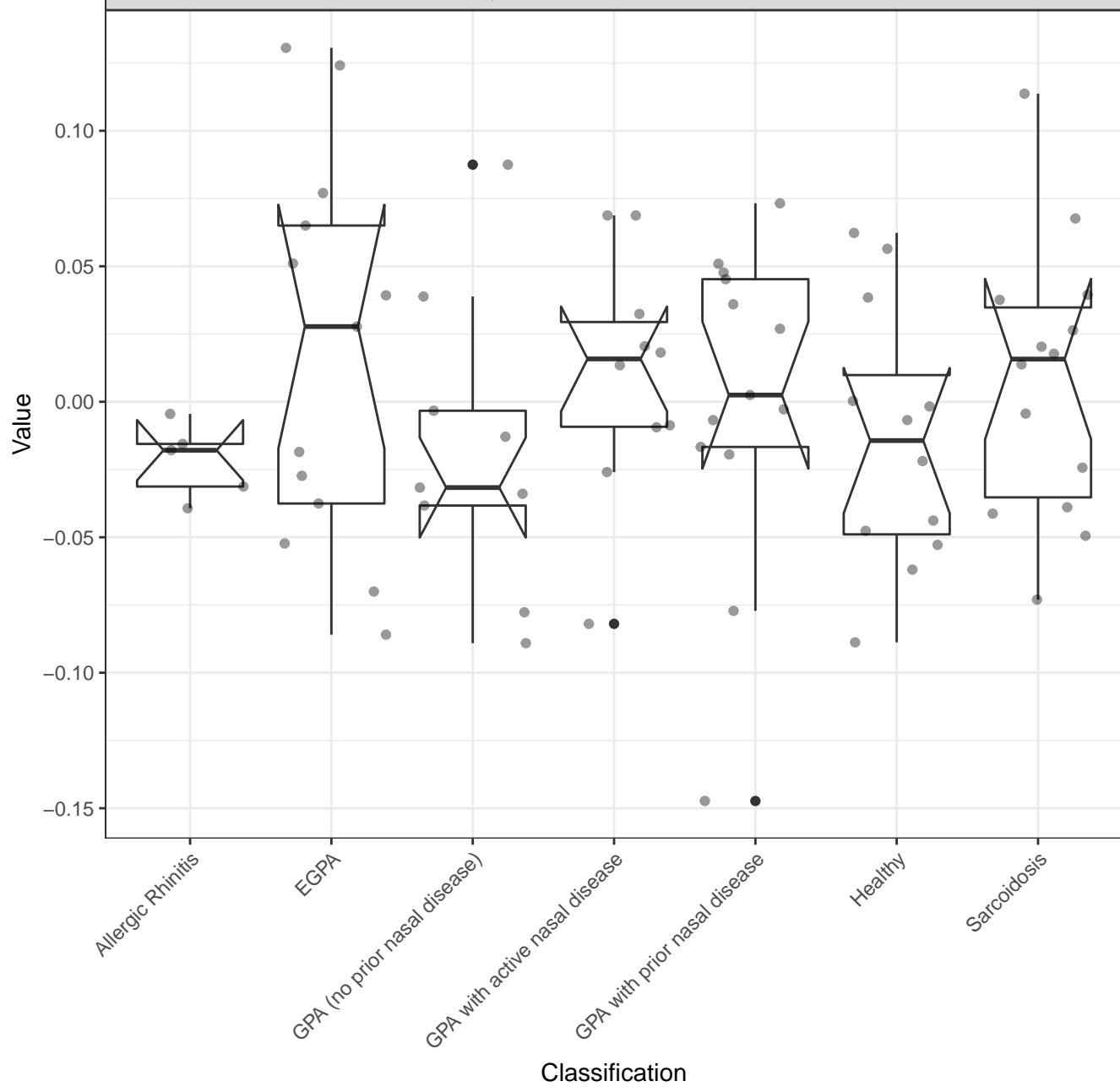
Healthy

Sarcoidosis

Classification



## 201,MIPS\_MEDIATOR\_COMPLEX



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

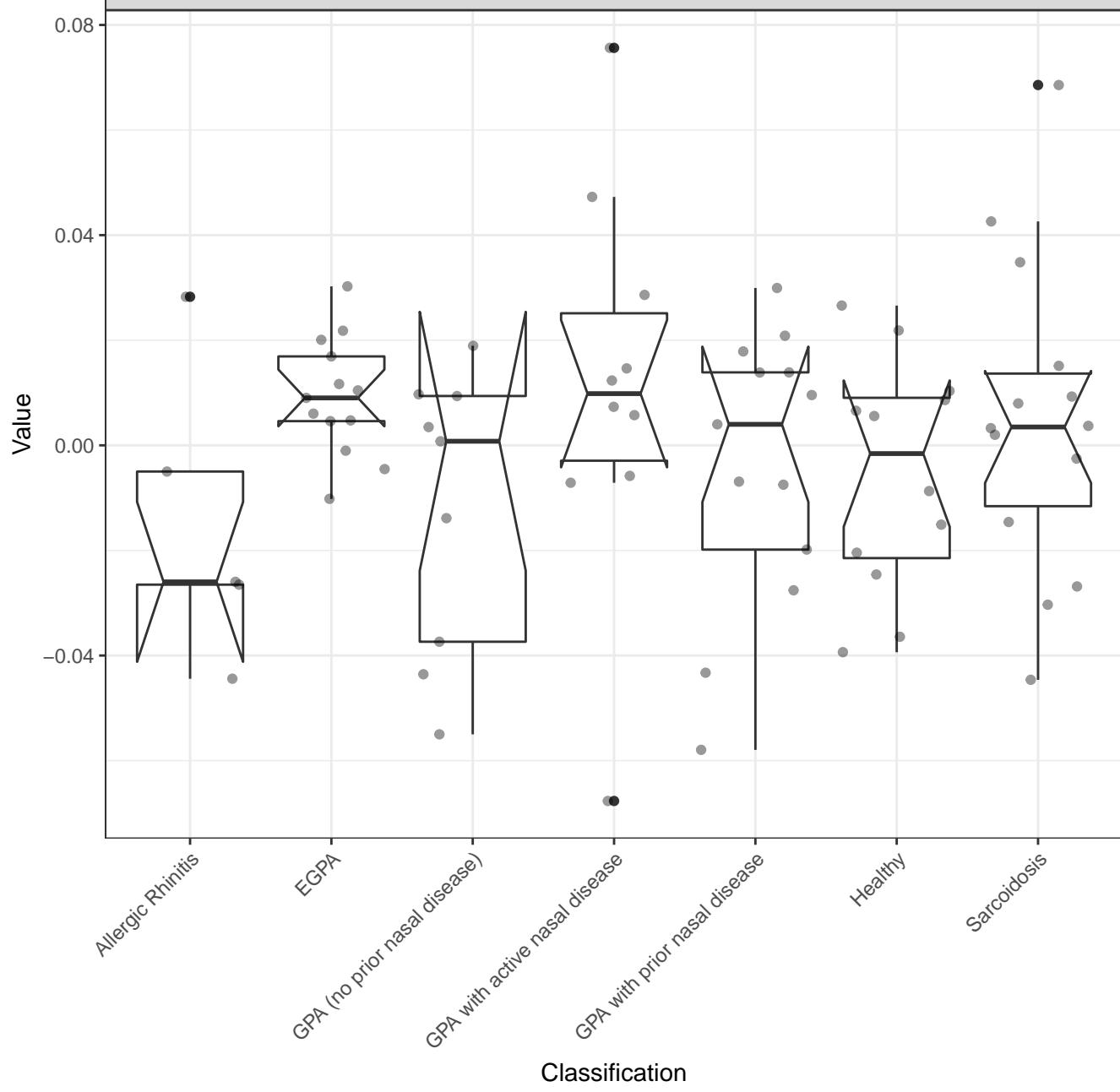
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 204



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

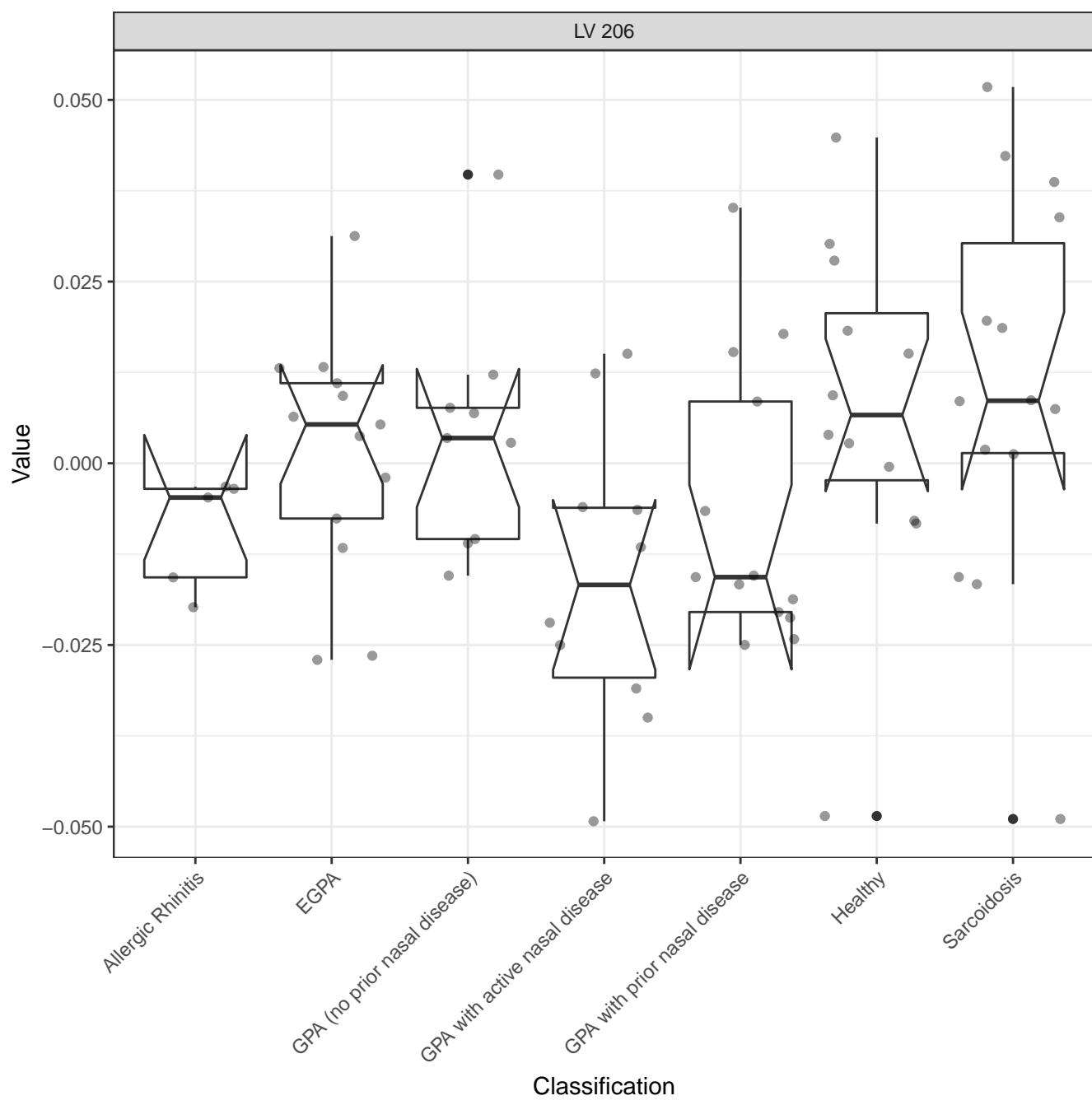
GPA with active nasal disease

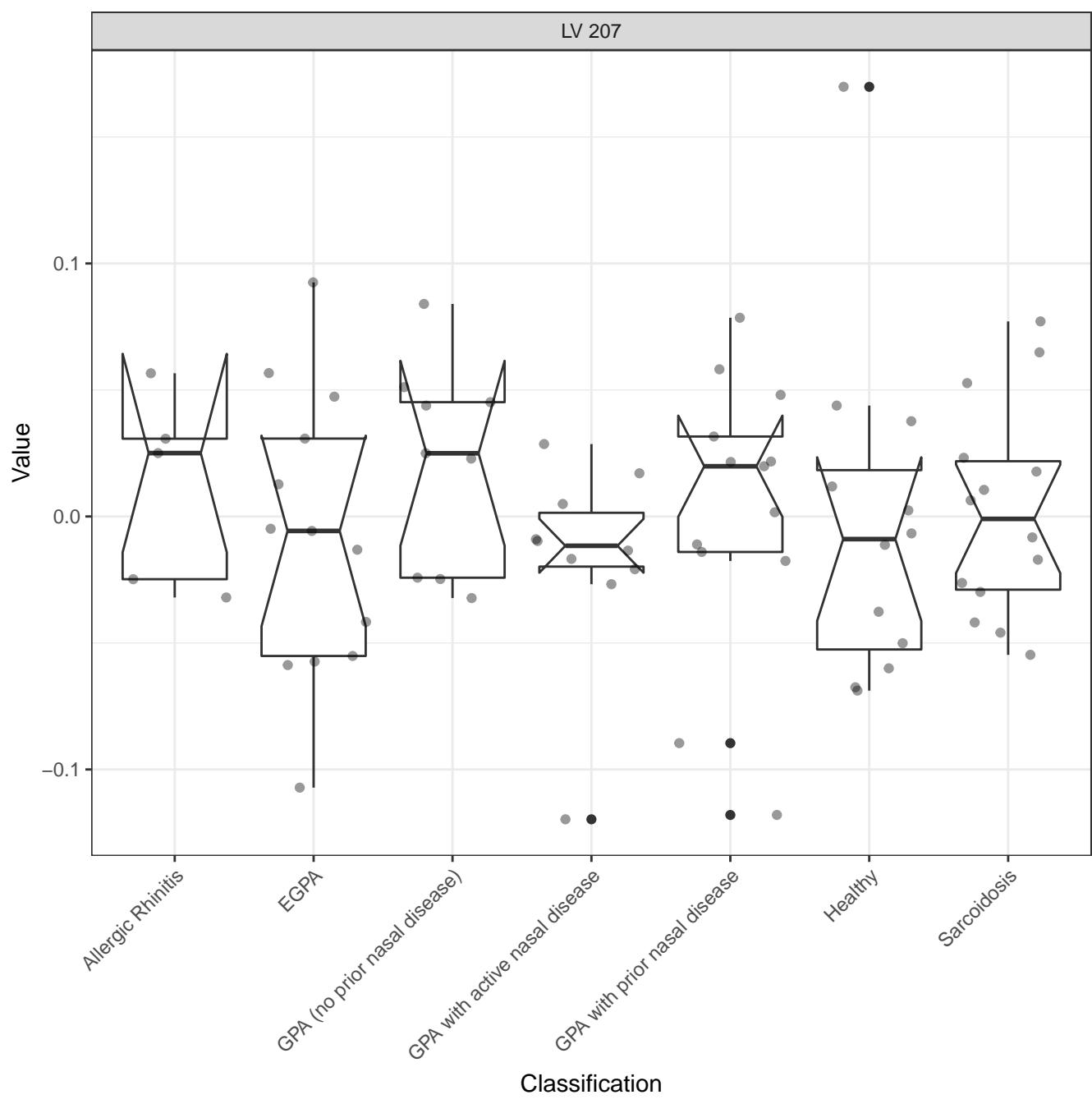
GPA with prior nasal disease

Healthy

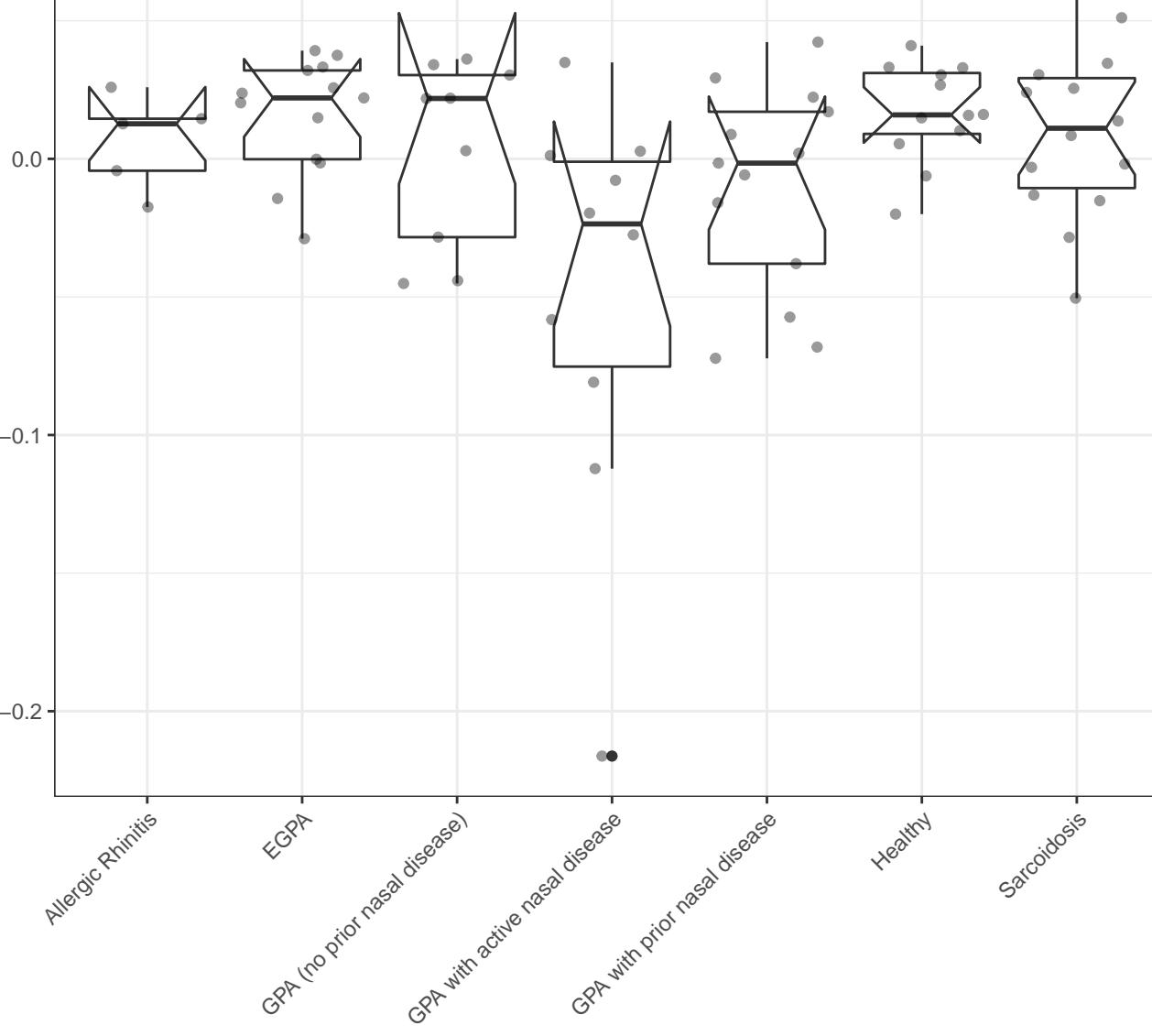
Sarcoidosis

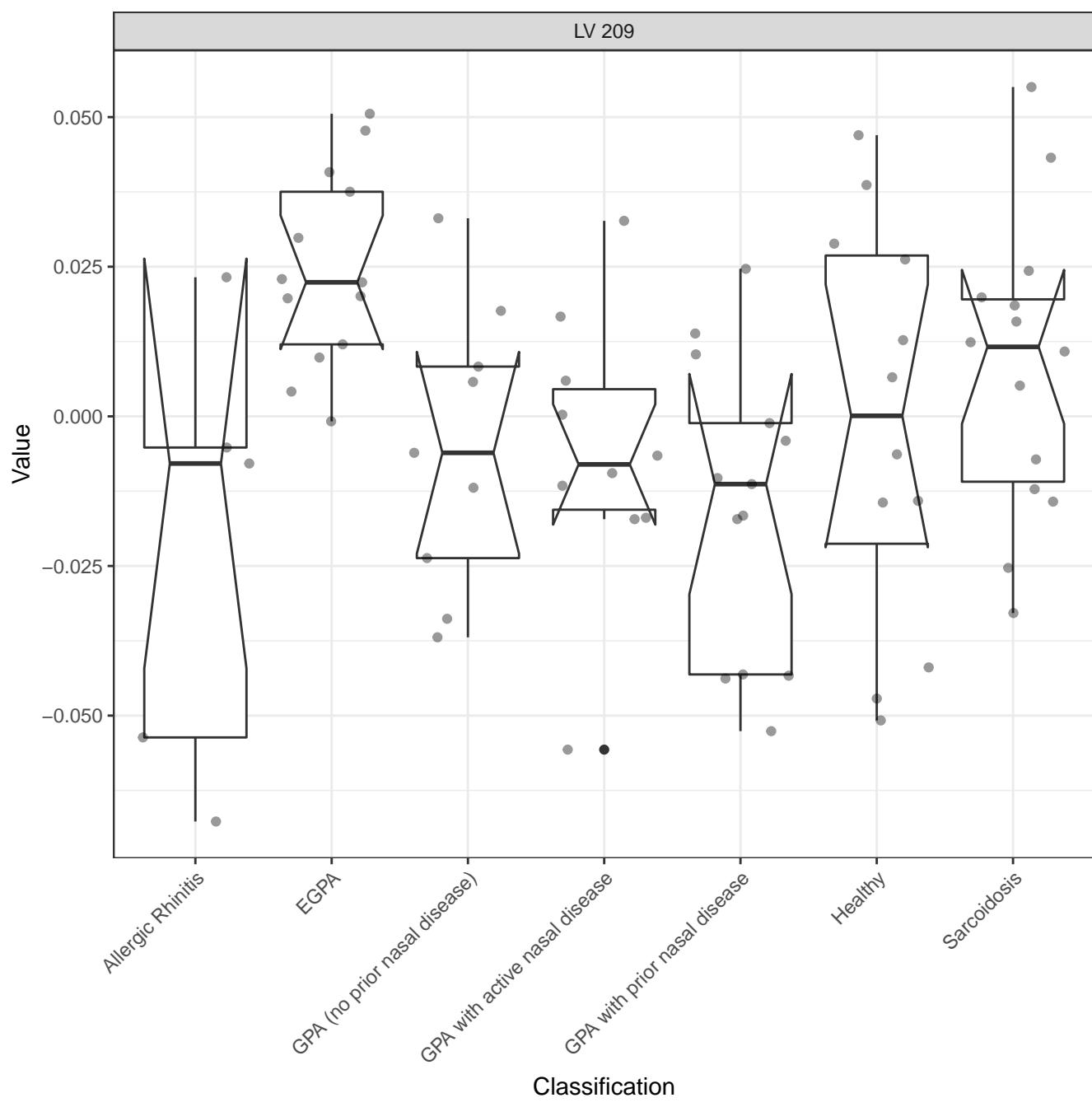
Classification



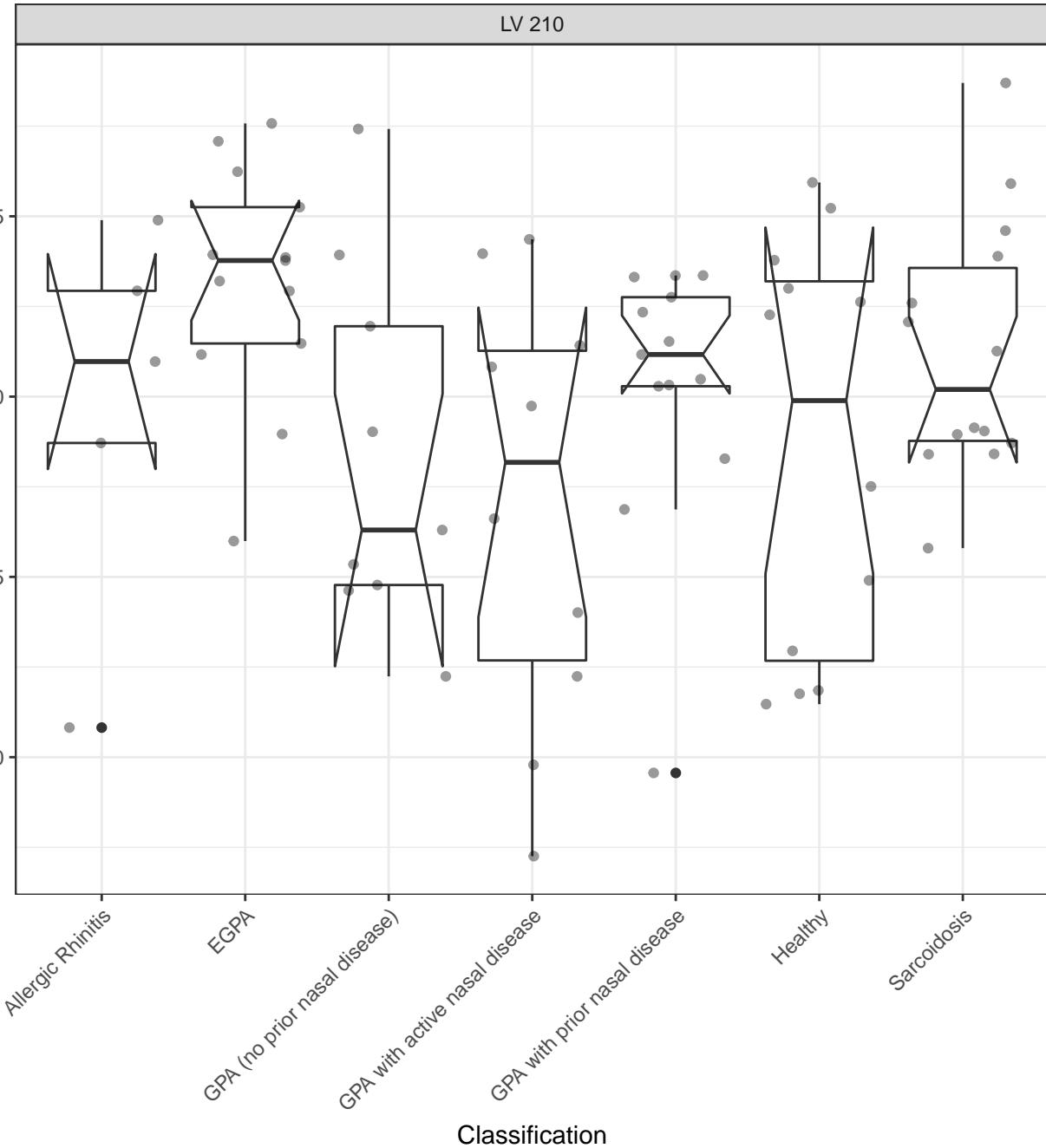


Value





Value



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

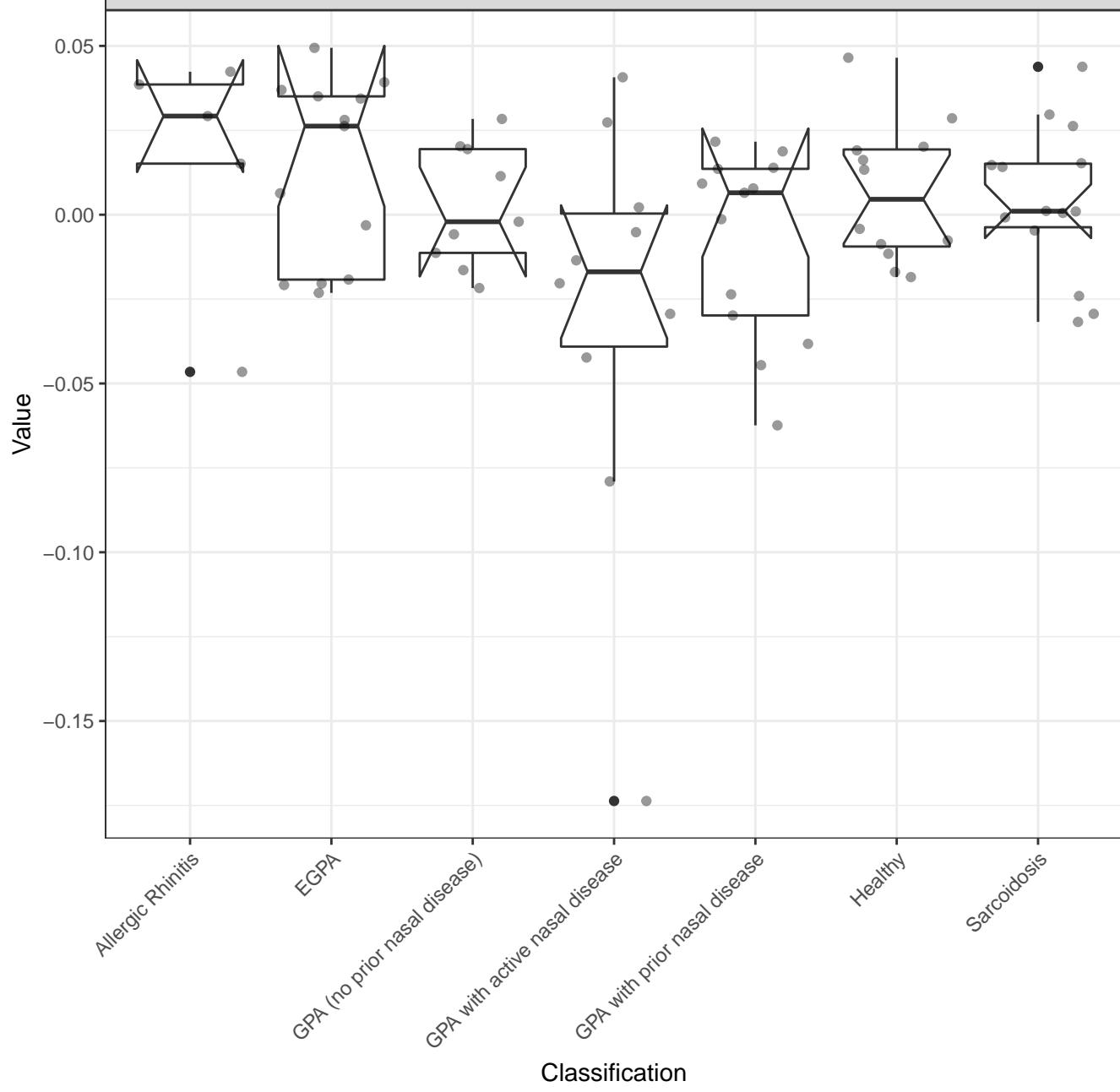
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.01

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

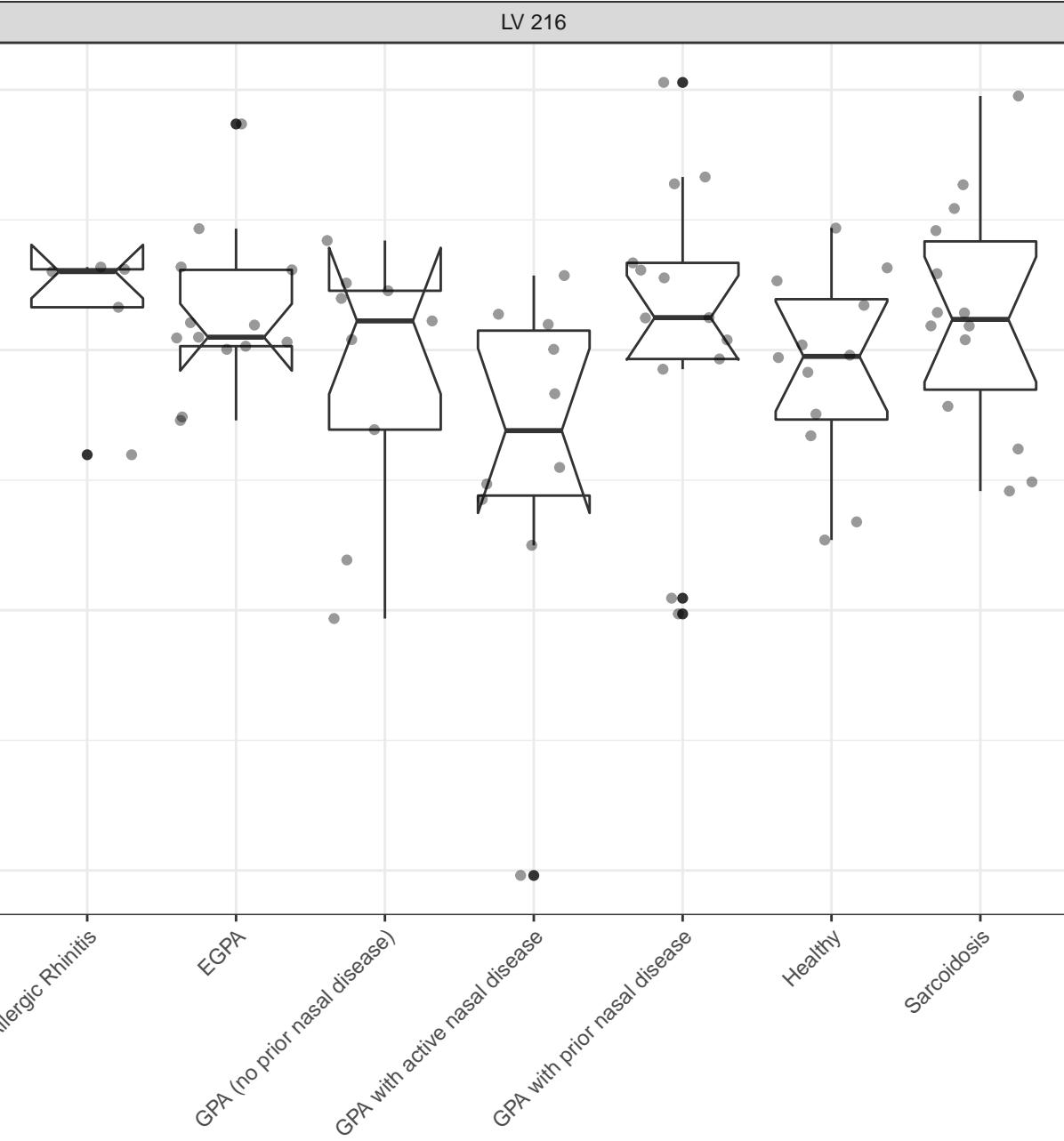
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

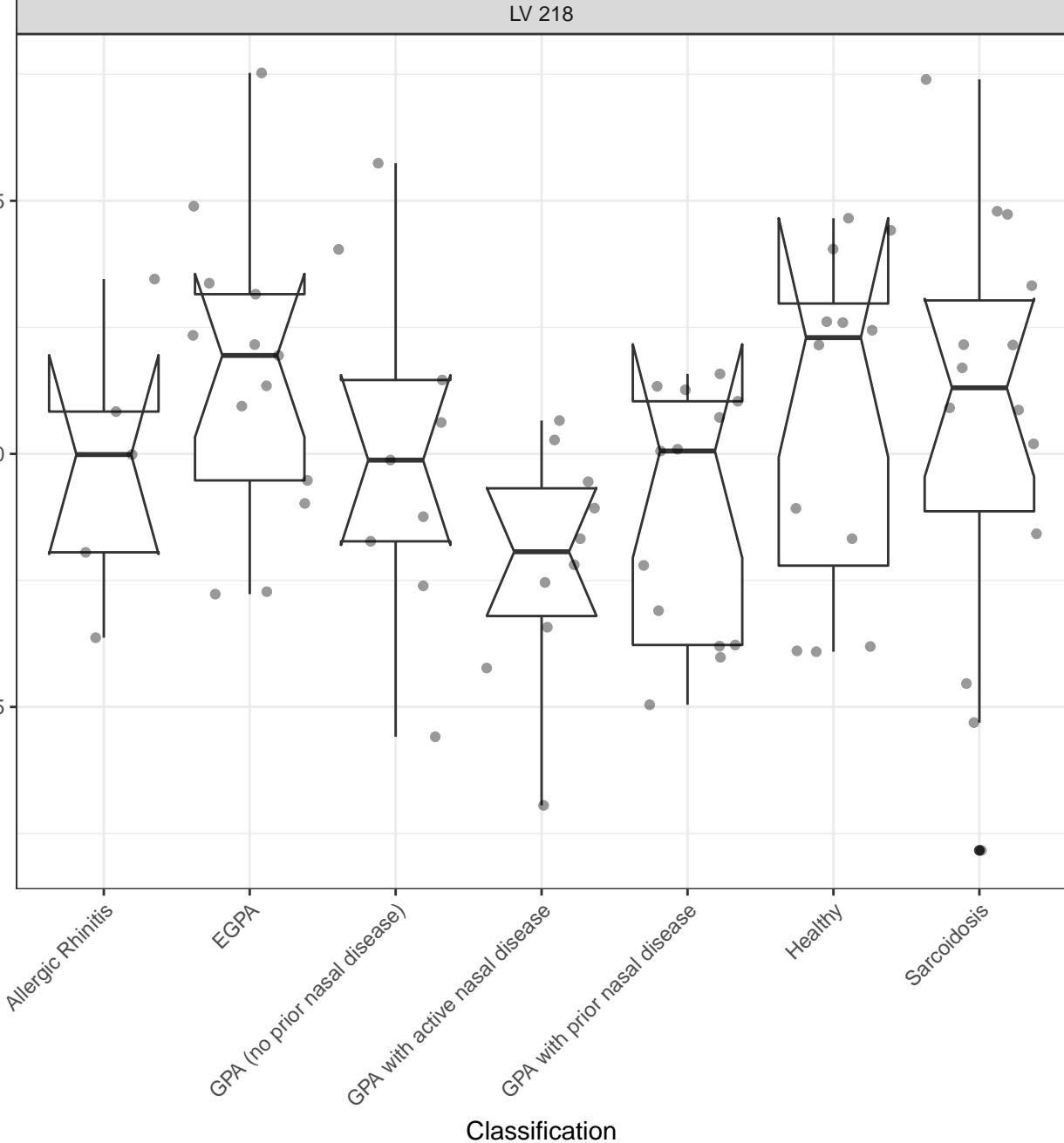
GPA with prior nasal disease

Healthy

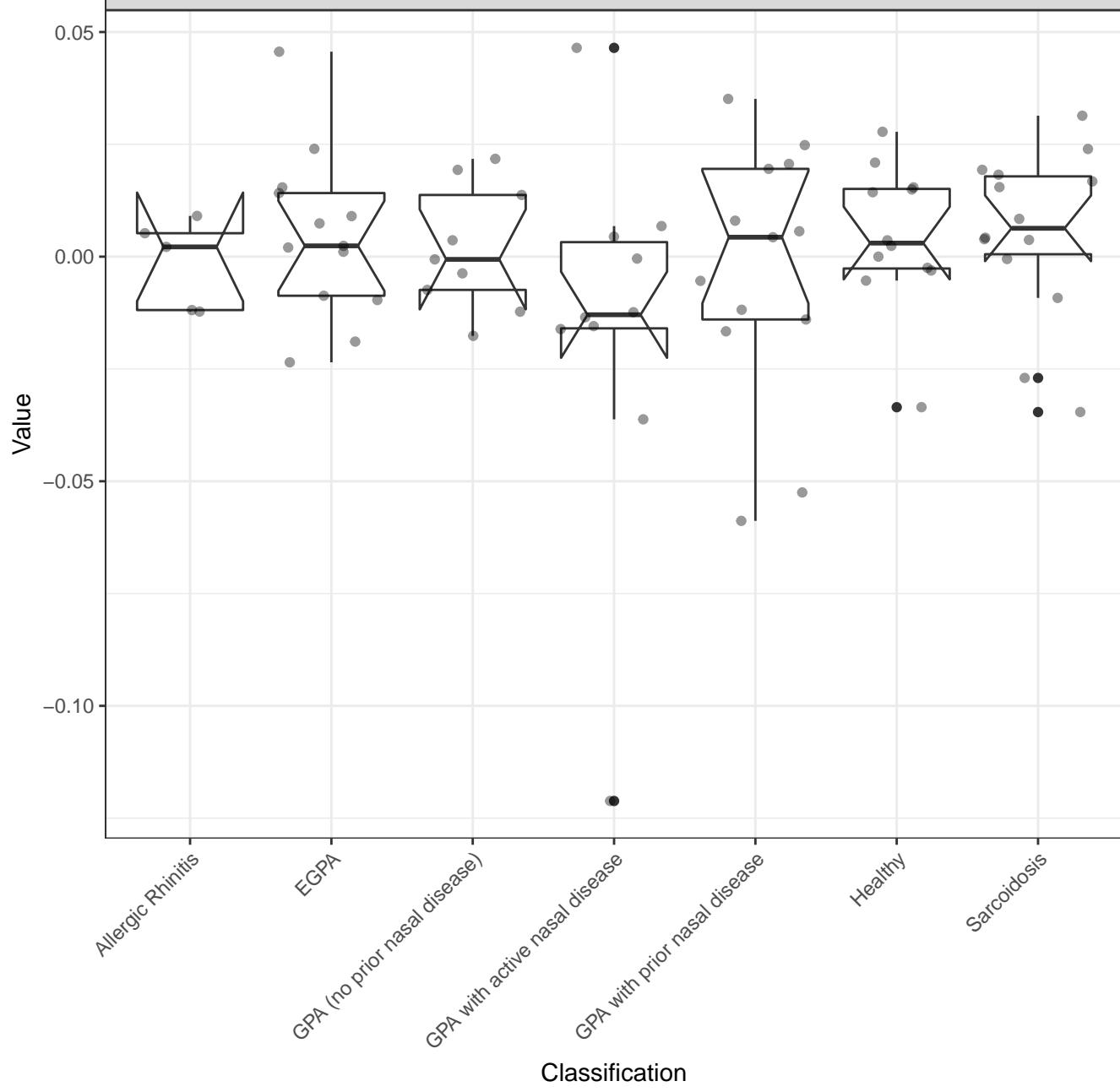
Sarcoidosis

Classification

Value



LV 219



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

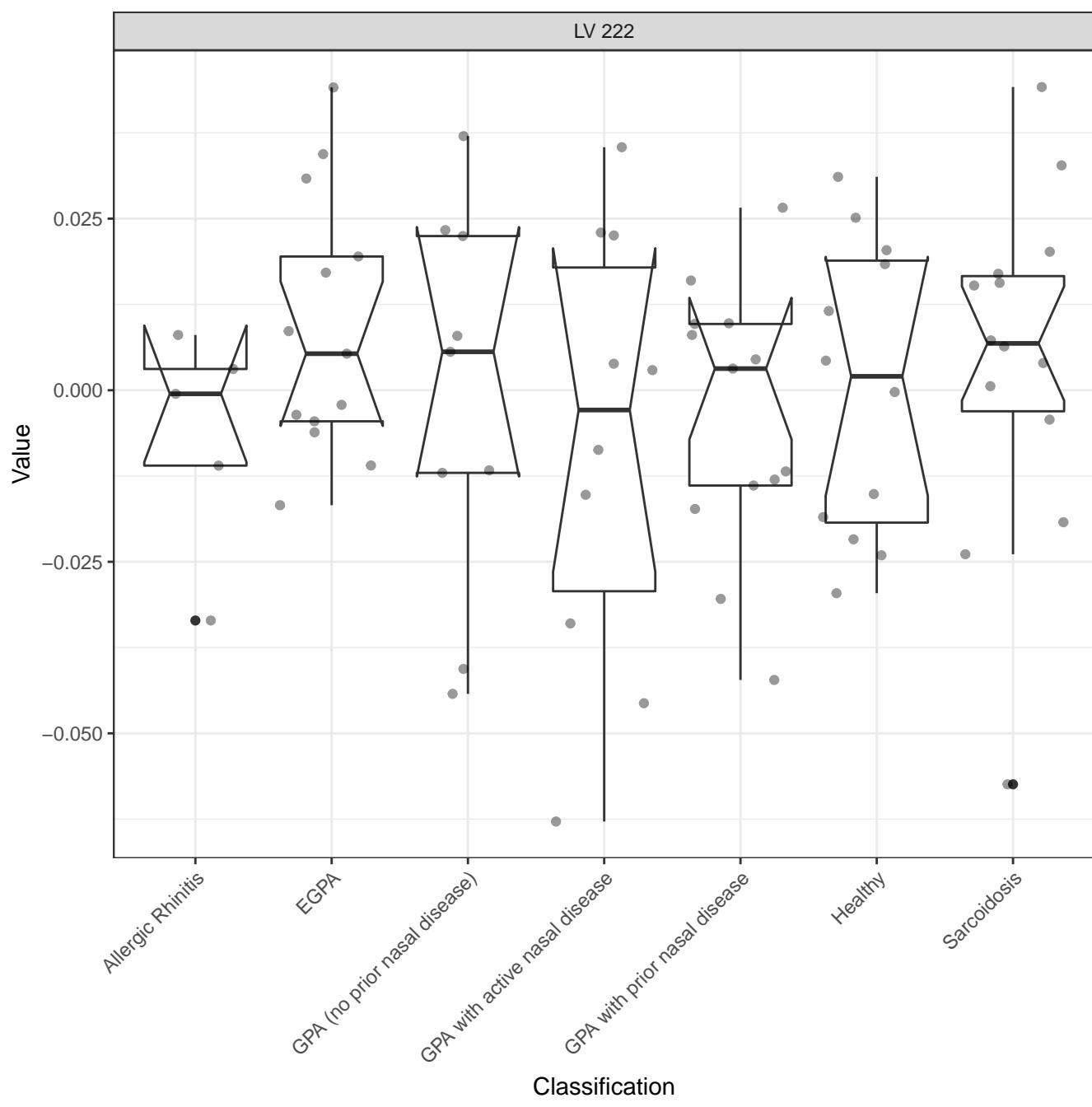
GPA with active nasal disease

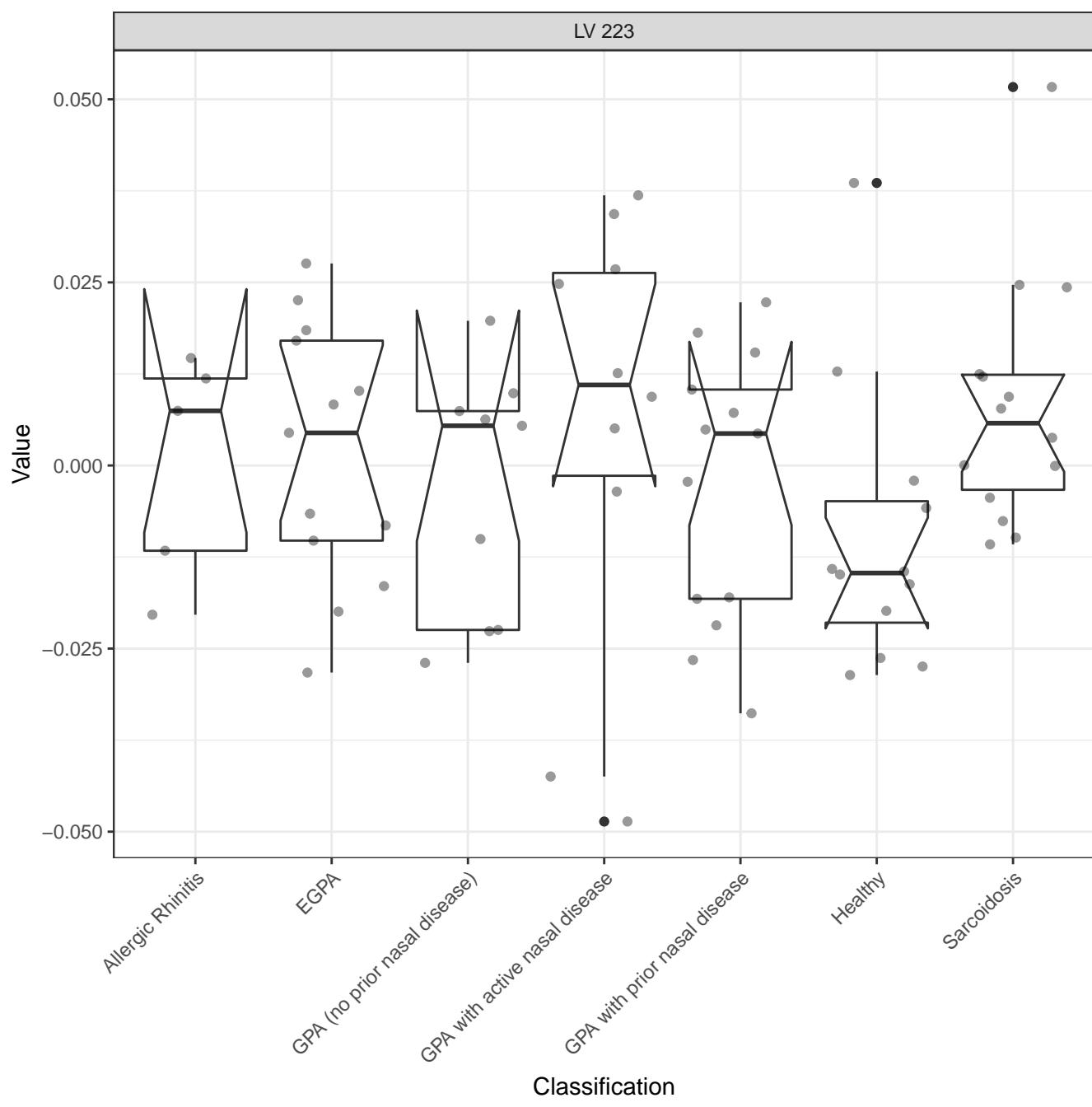
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

-0.06  
-0.04  
-0.02  
0.00  
0.02

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

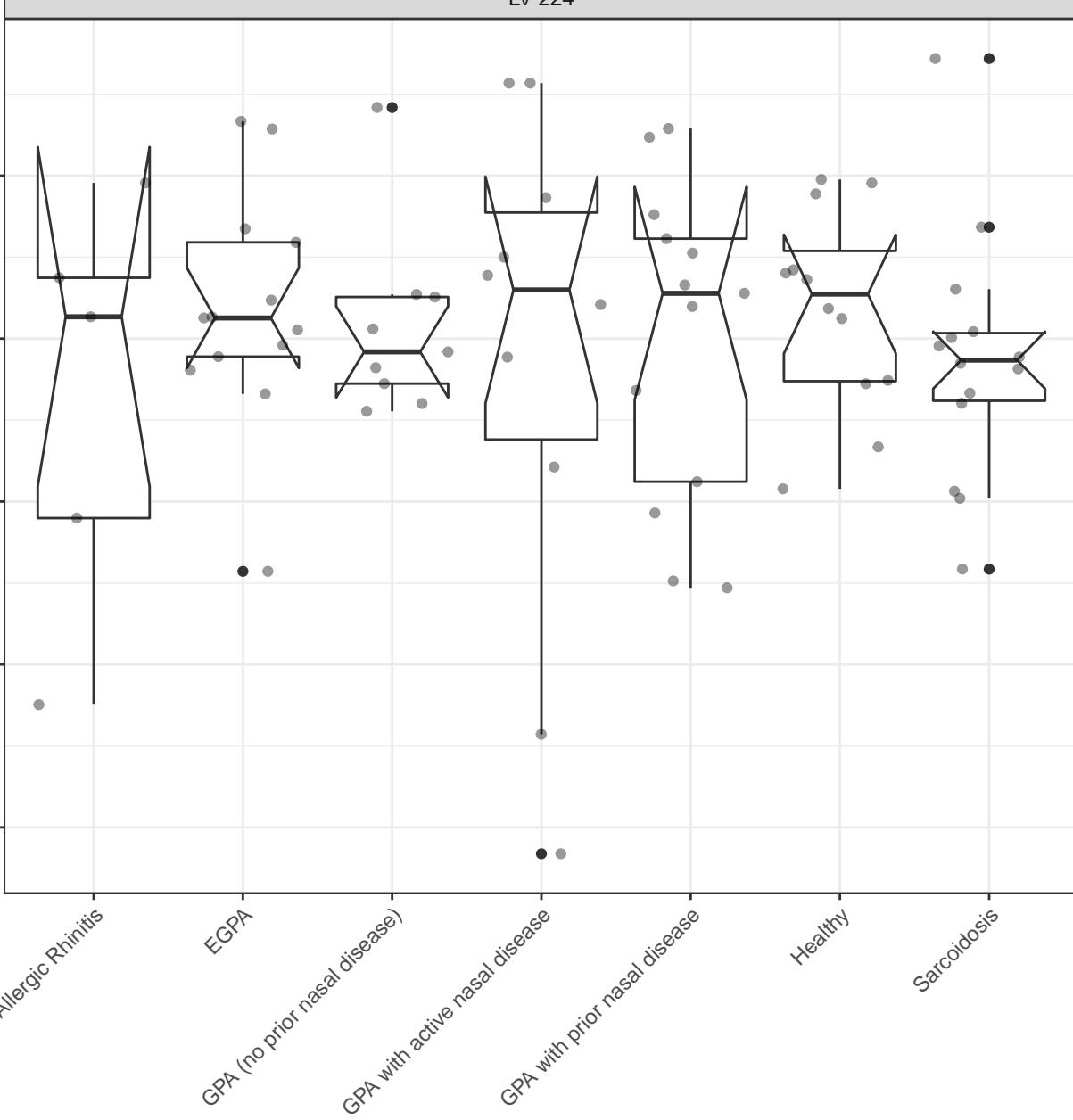
GPA with active nasal disease

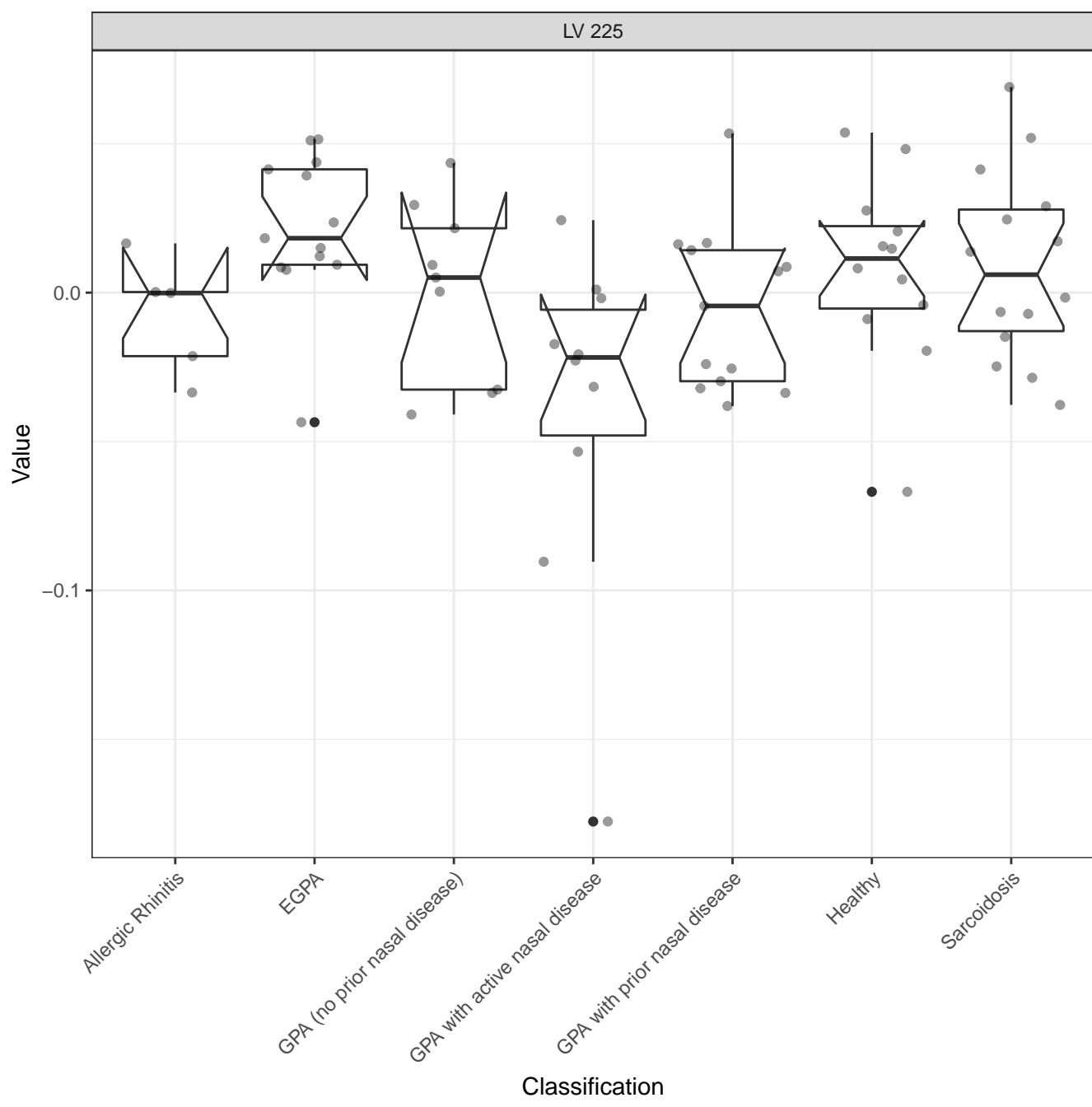
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.10

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

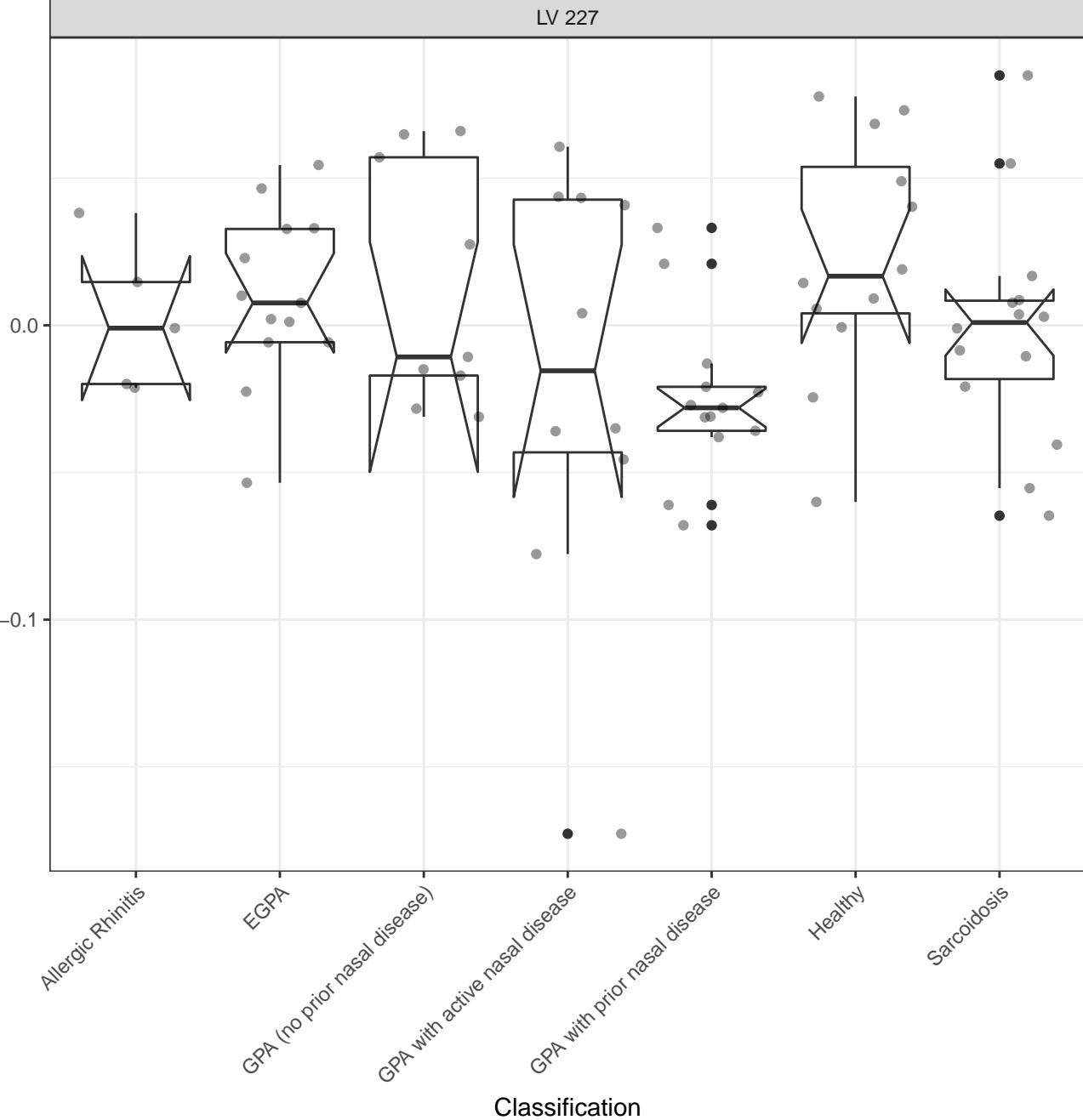
GPA with prior nasal disease

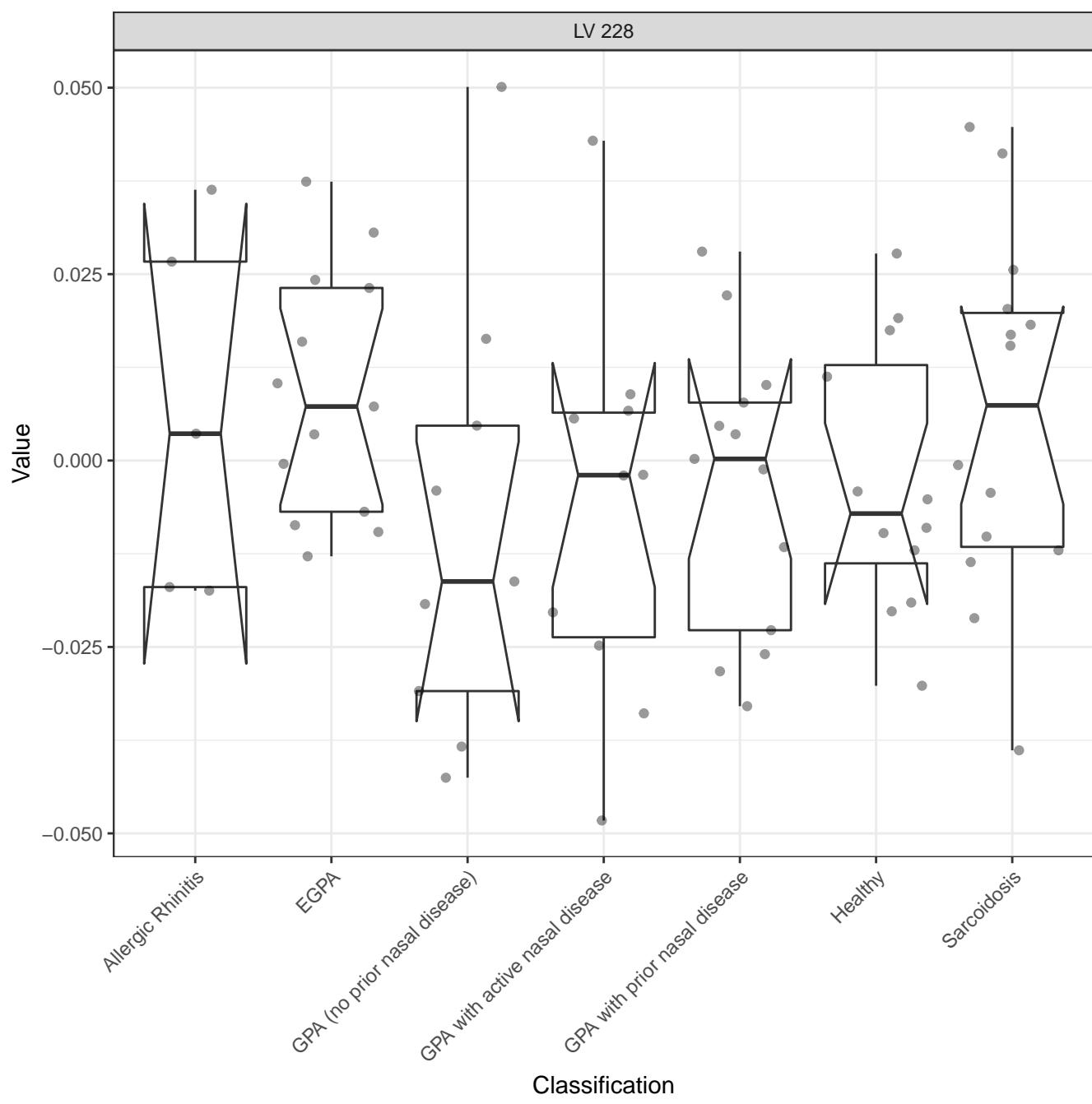
Healthy

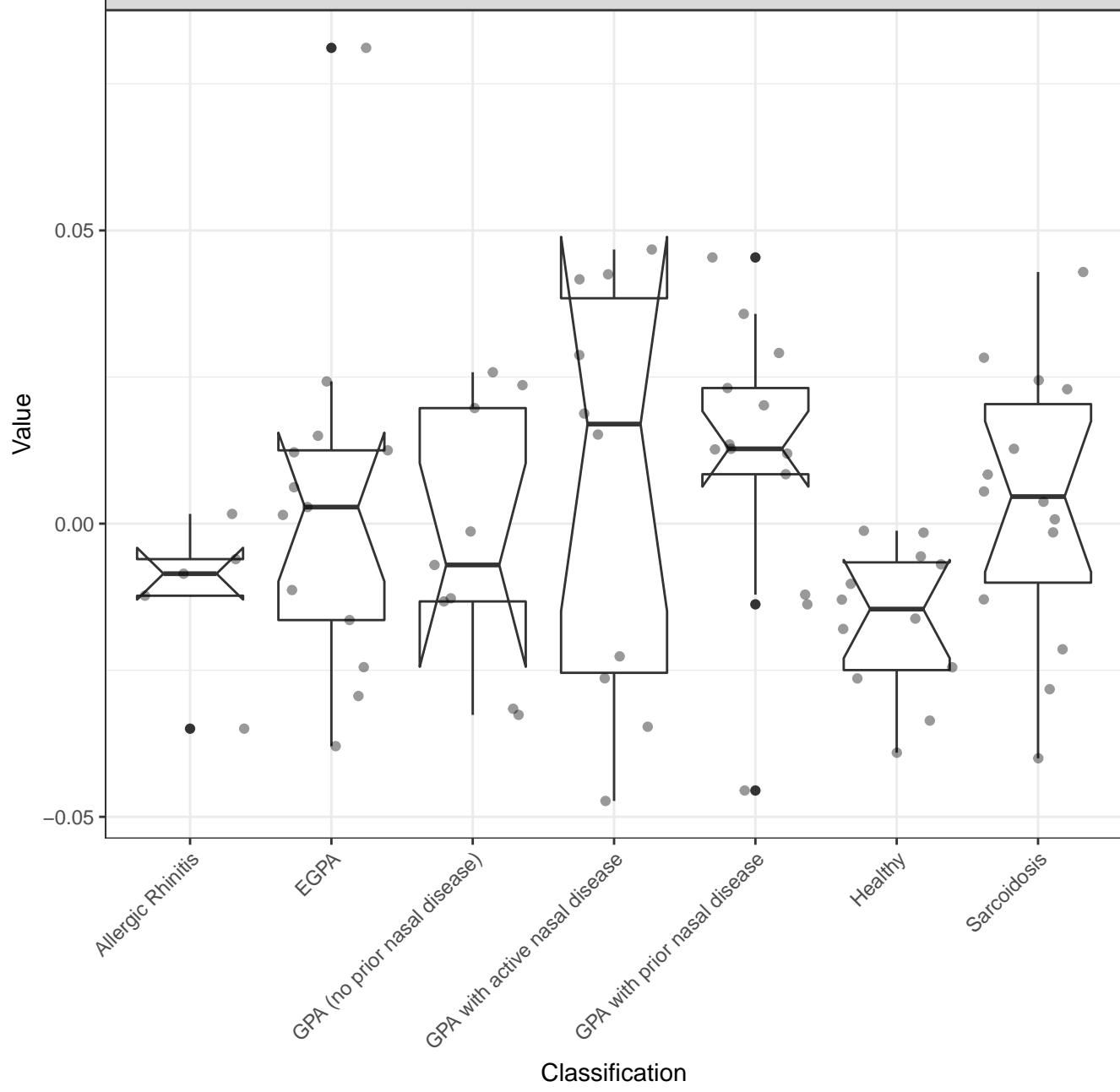
Sarcoidosis

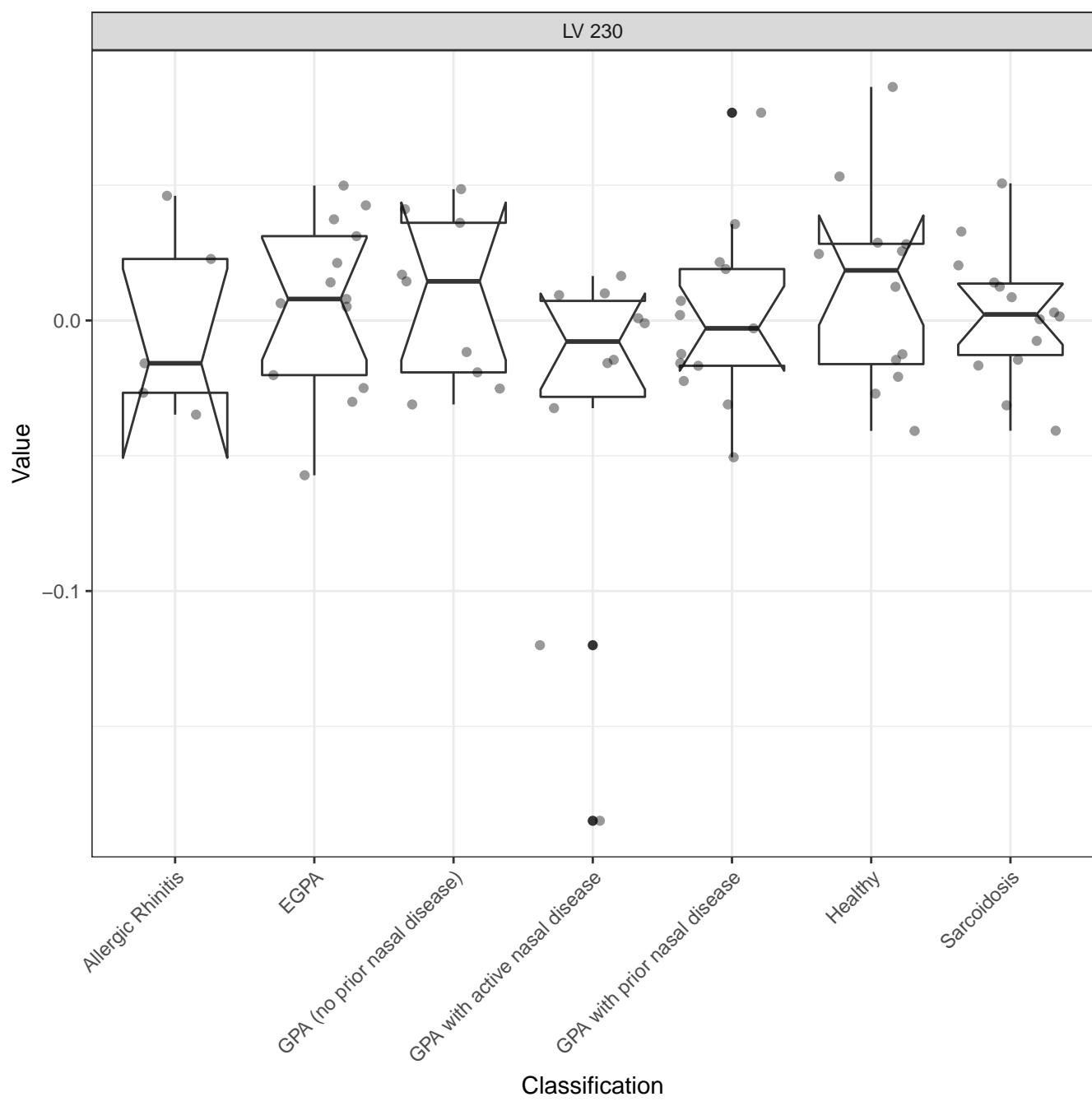
Classification

Value









Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

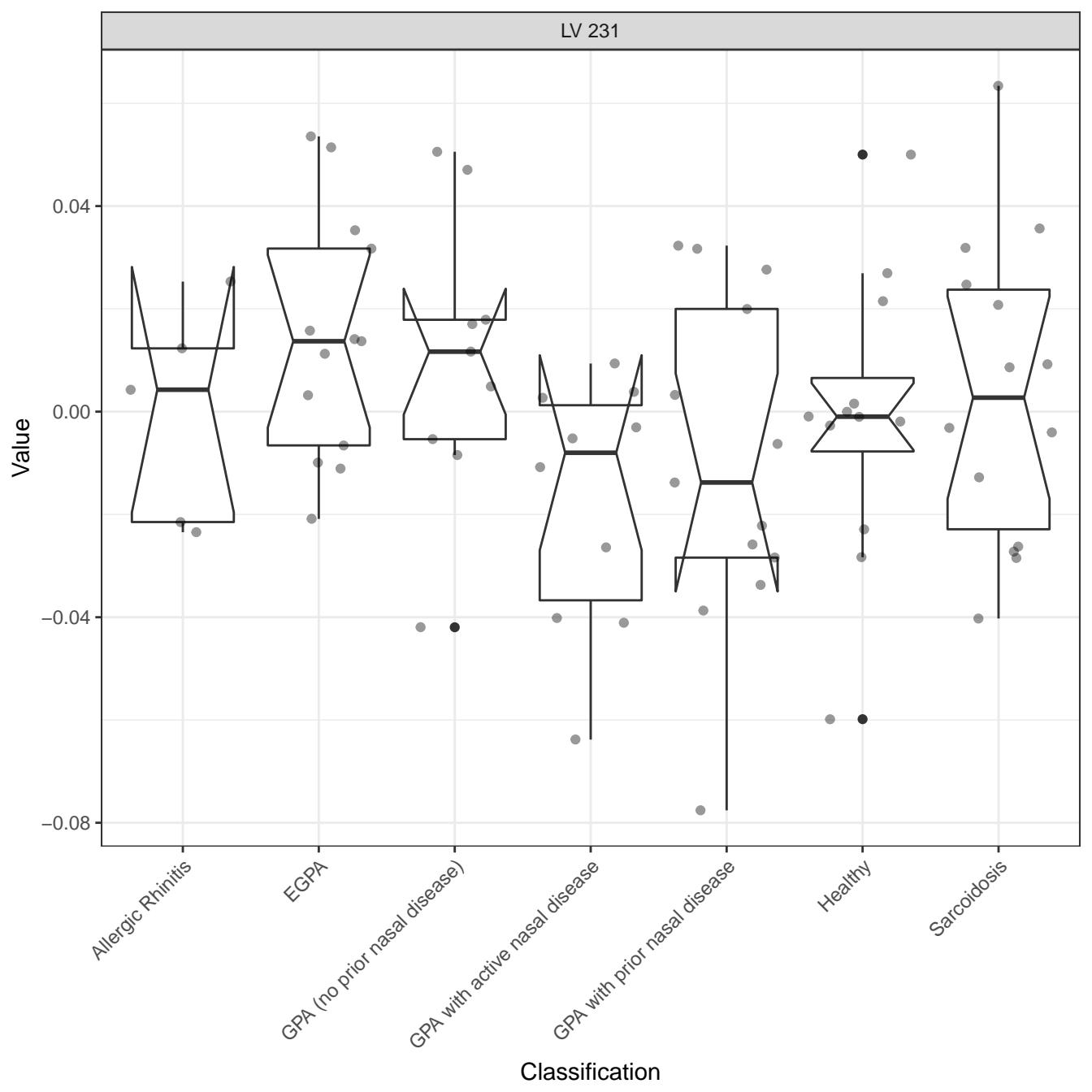
Classification

0.04

0.01

-0.04

-0.08



Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

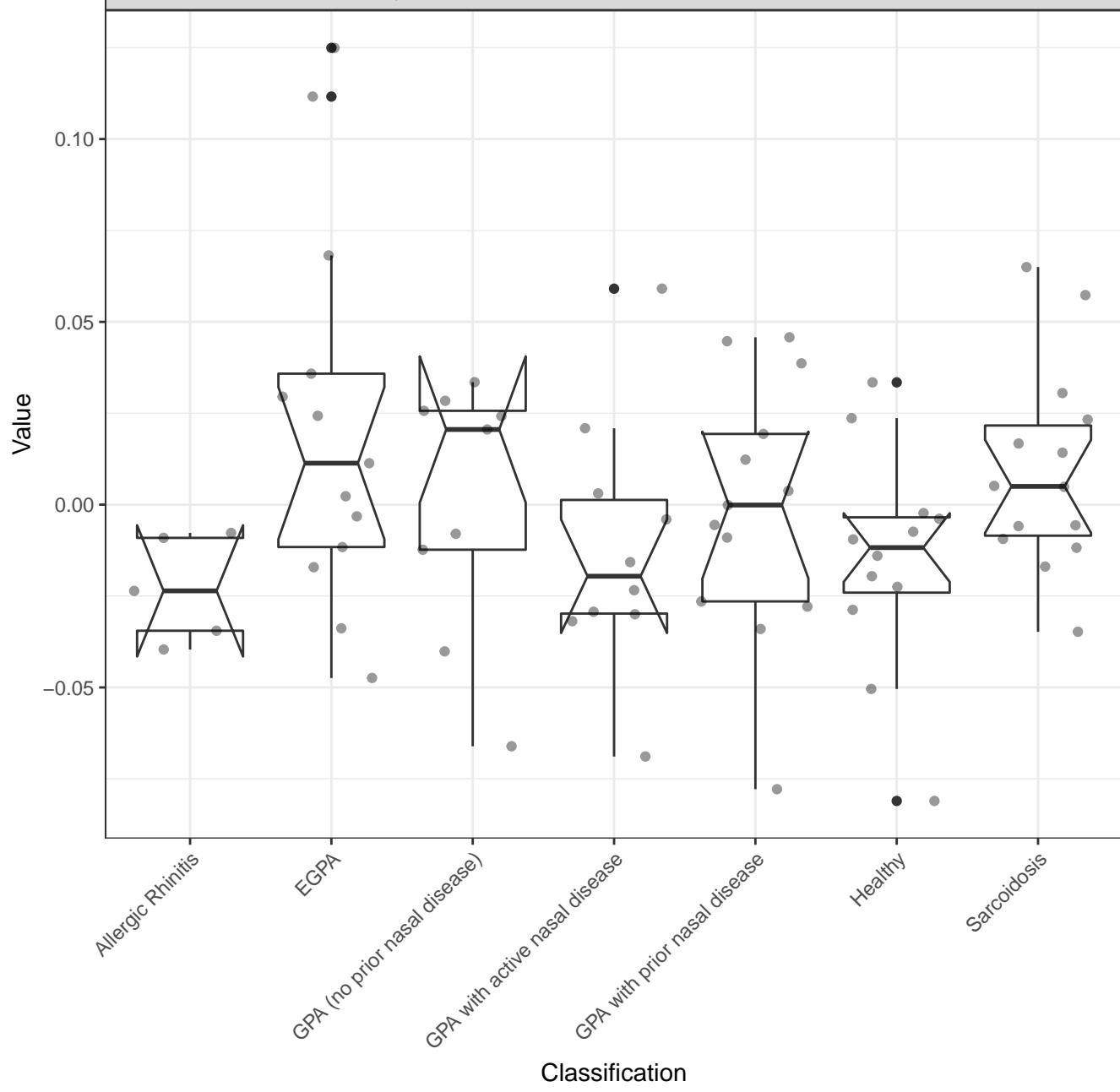
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

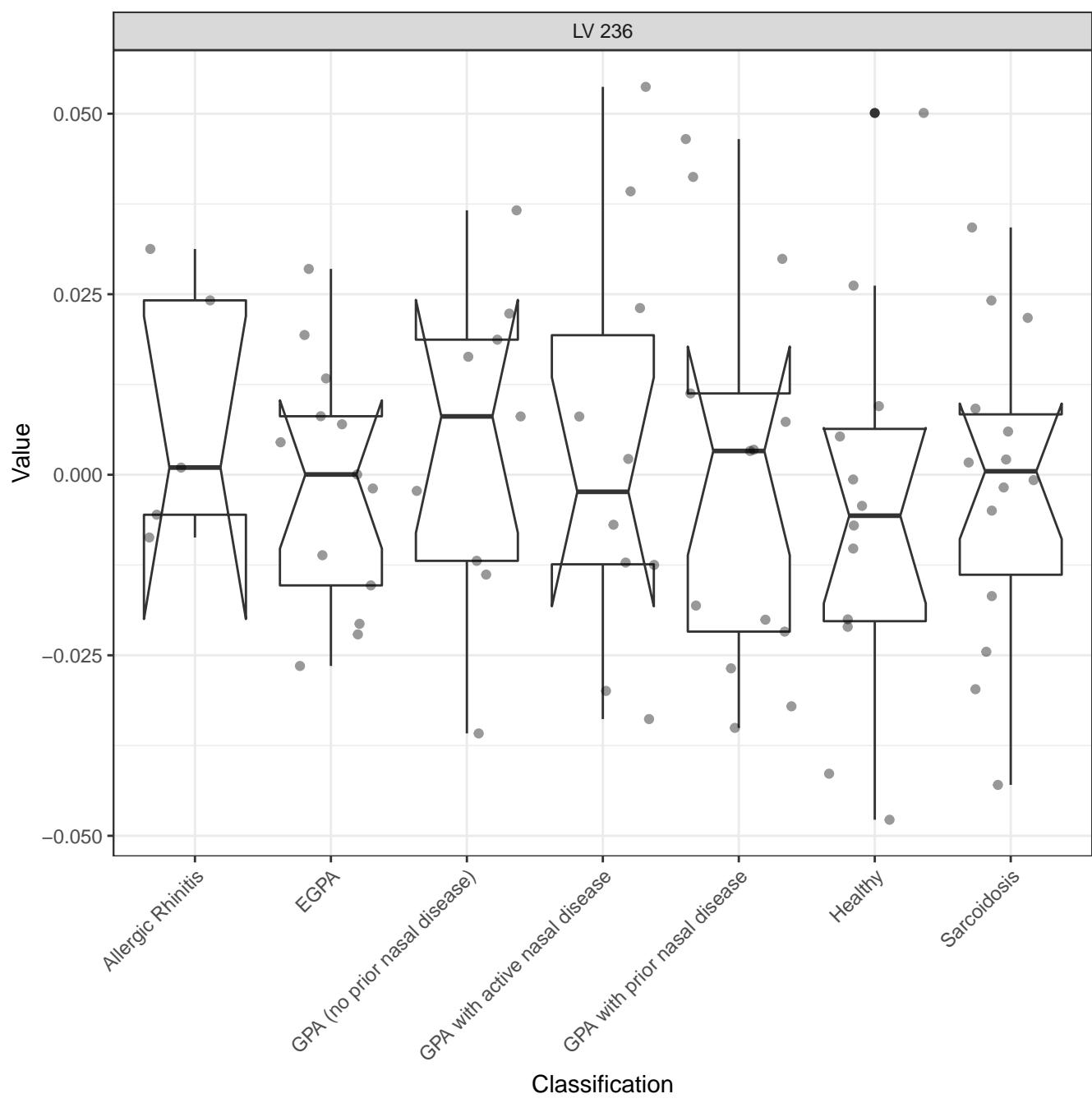
GPA with active nasal disease

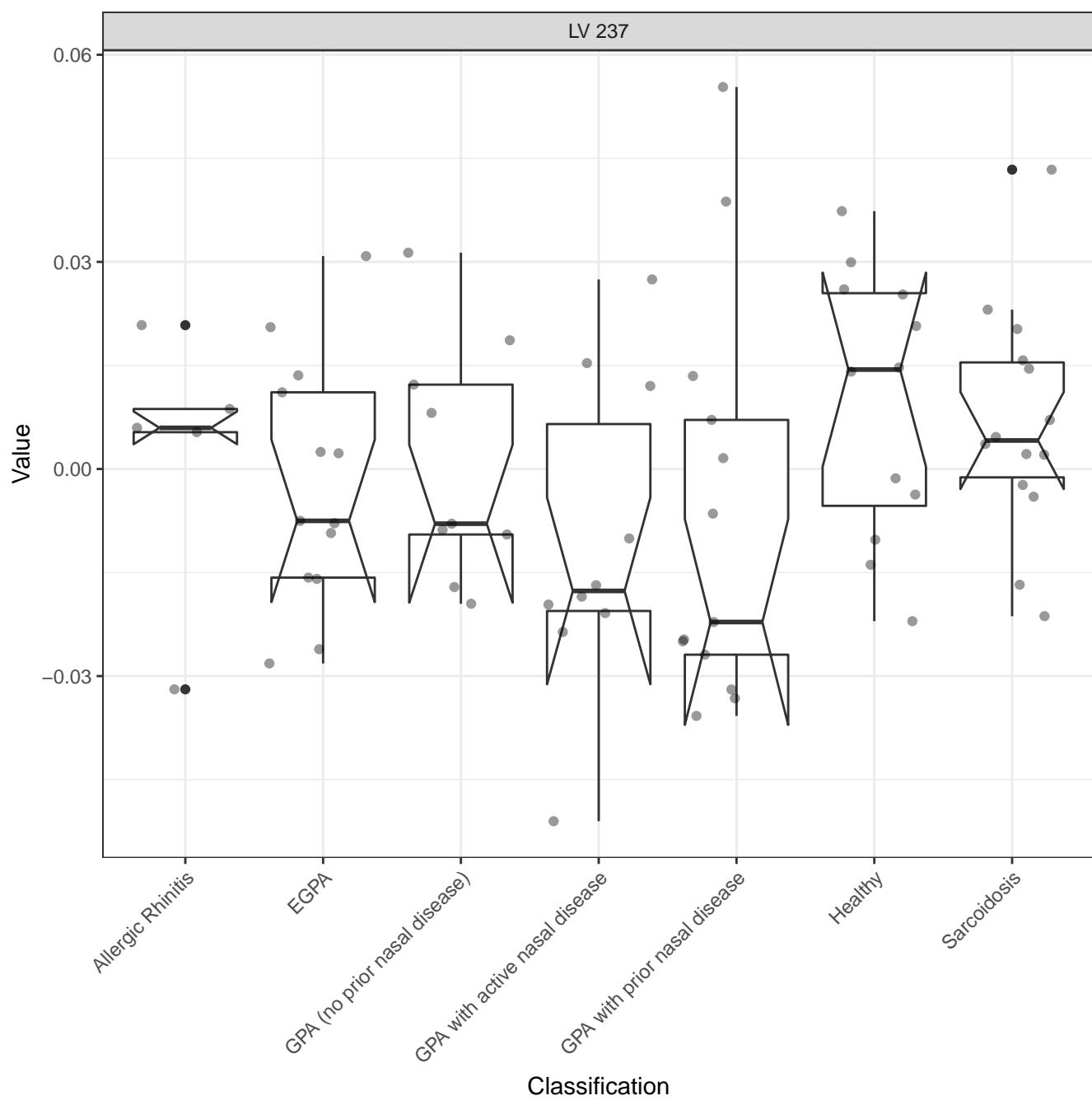
GPA with prior nasal disease

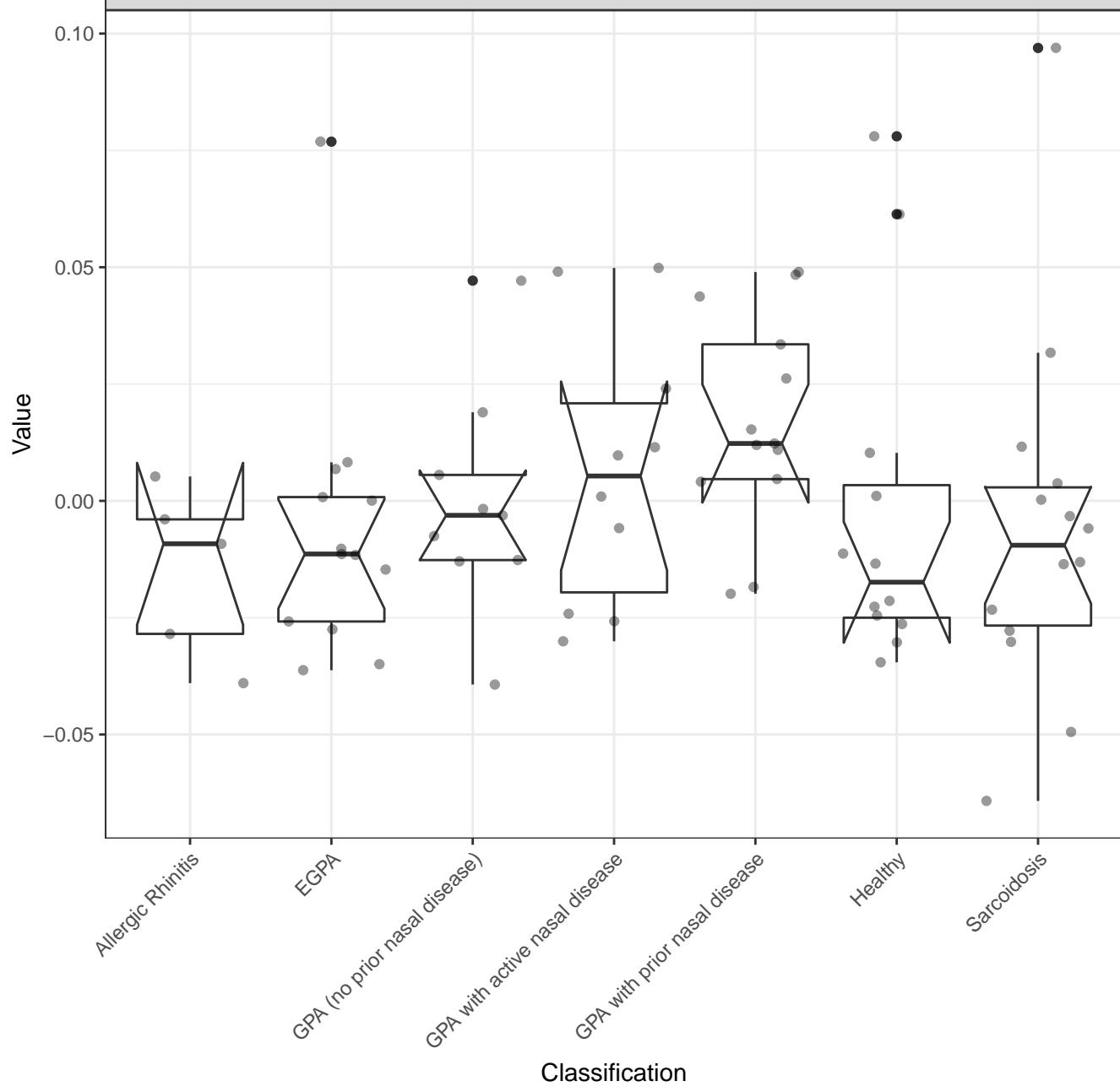
Healthy

Sarcoidosis

Classification







Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

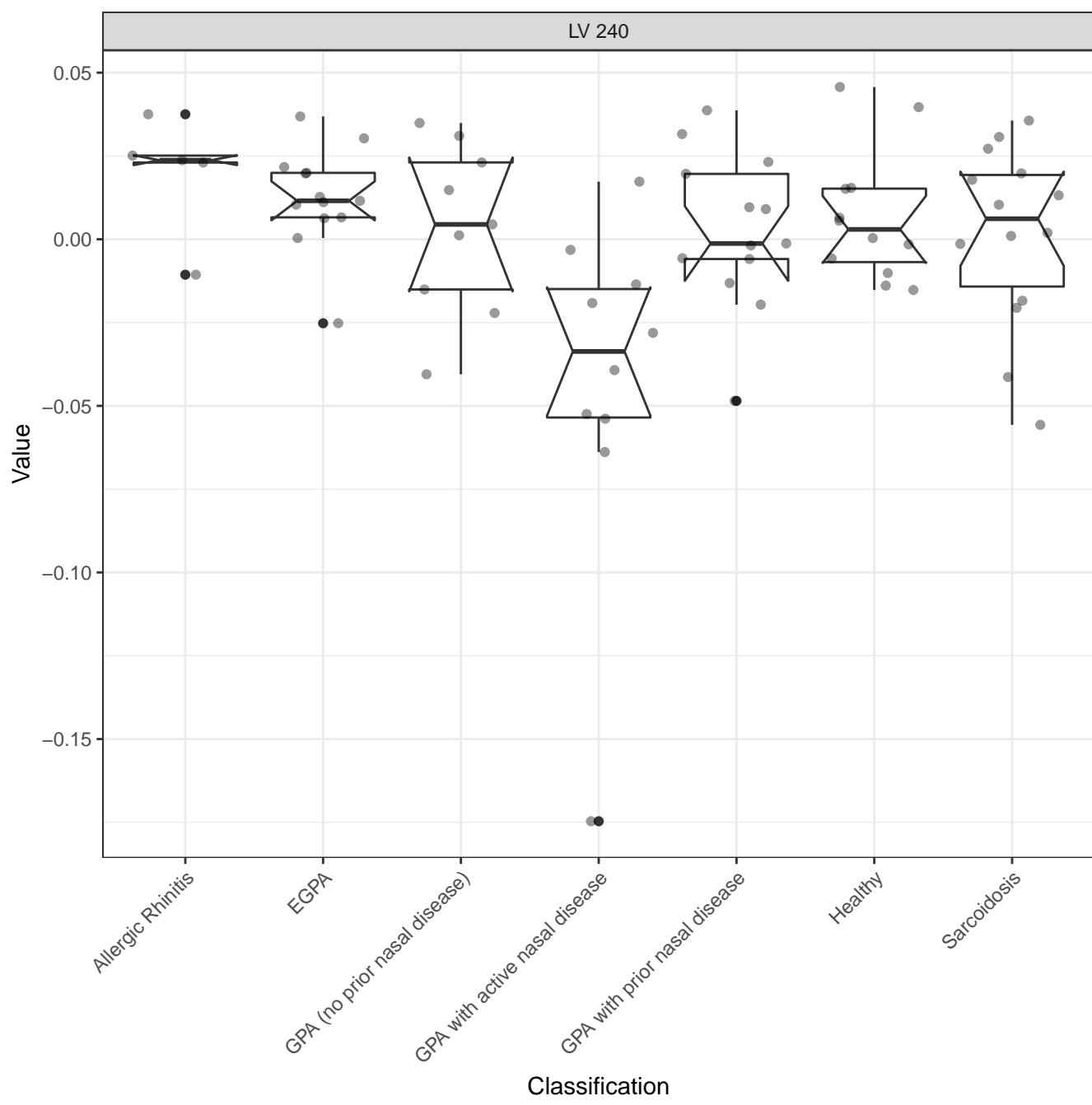
GPA with active nasal disease

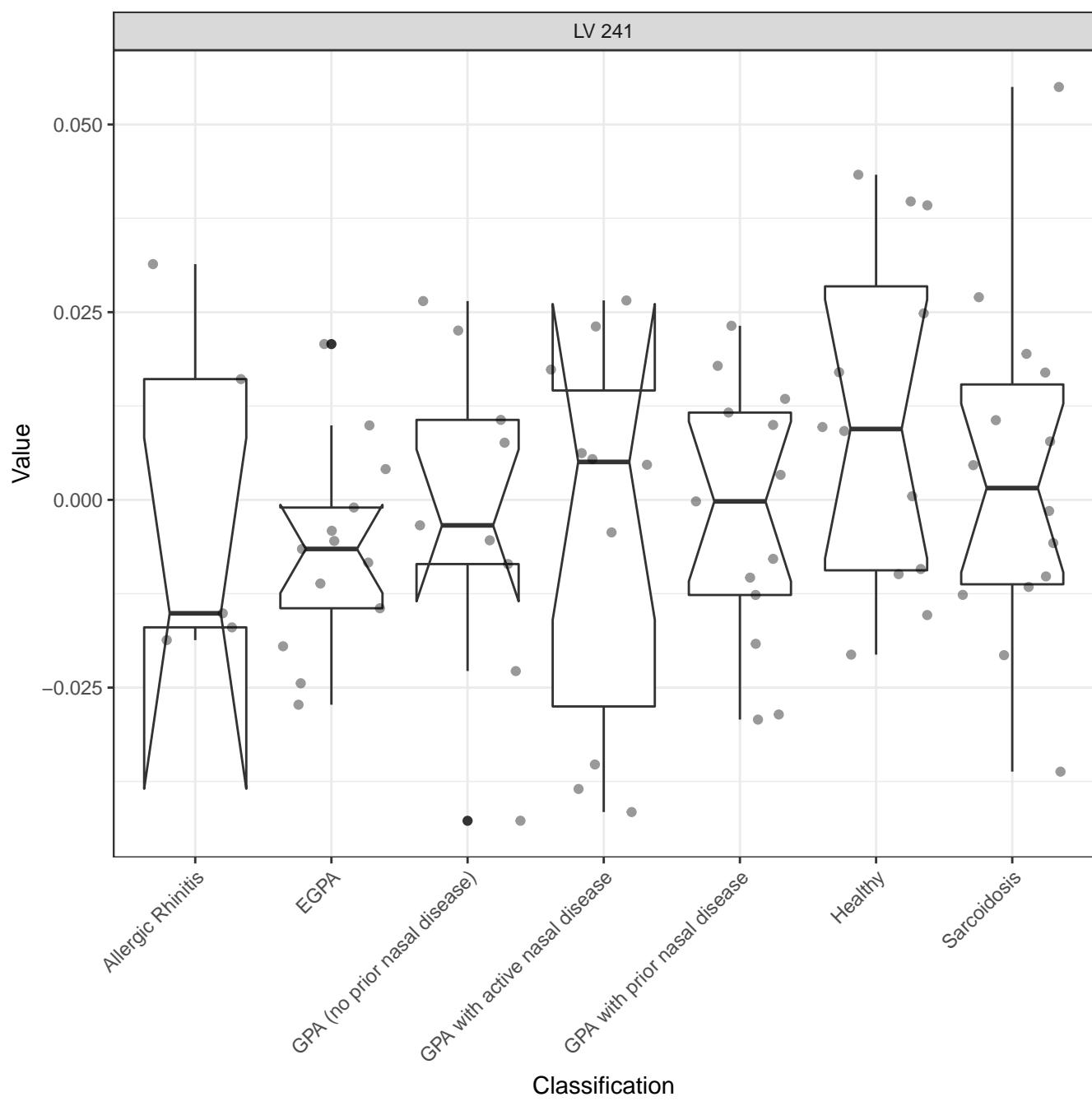
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.06

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

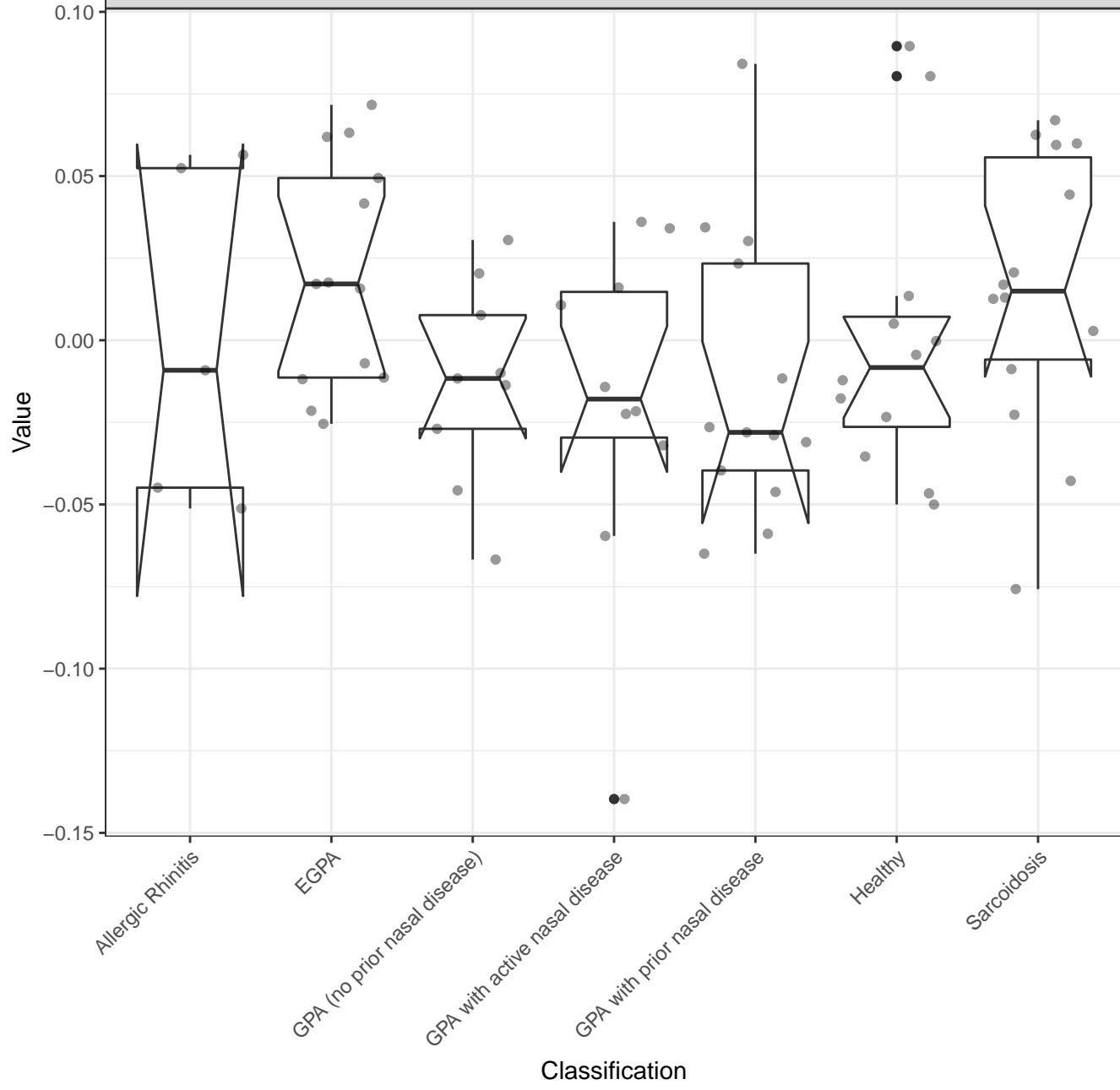
GPA with prior nasal disease

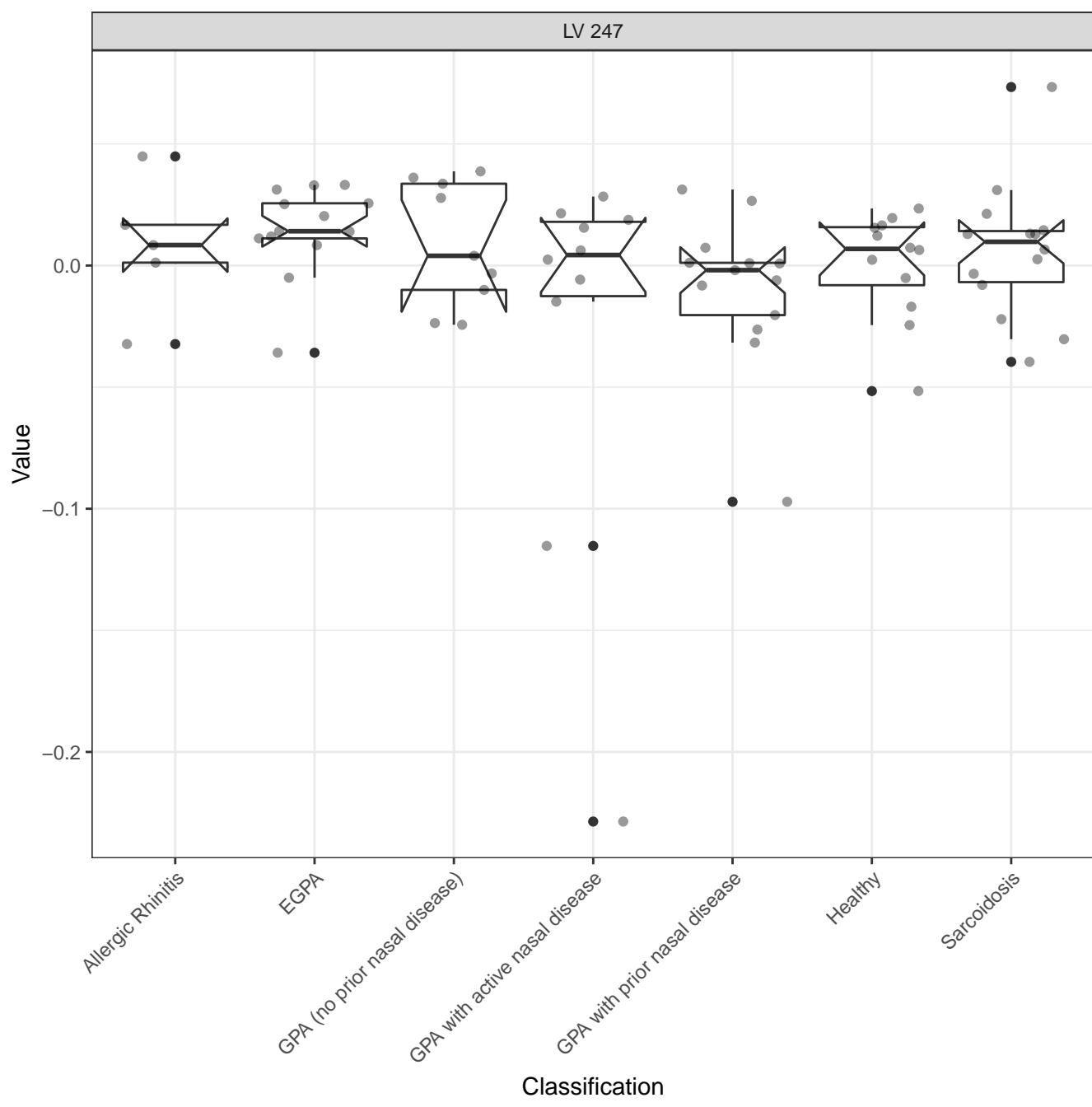
Healthy

Sarcoidosis

Classification

## 246,REACTOME\_TRIGLYCERIDE BIOSYNTHESIS





Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

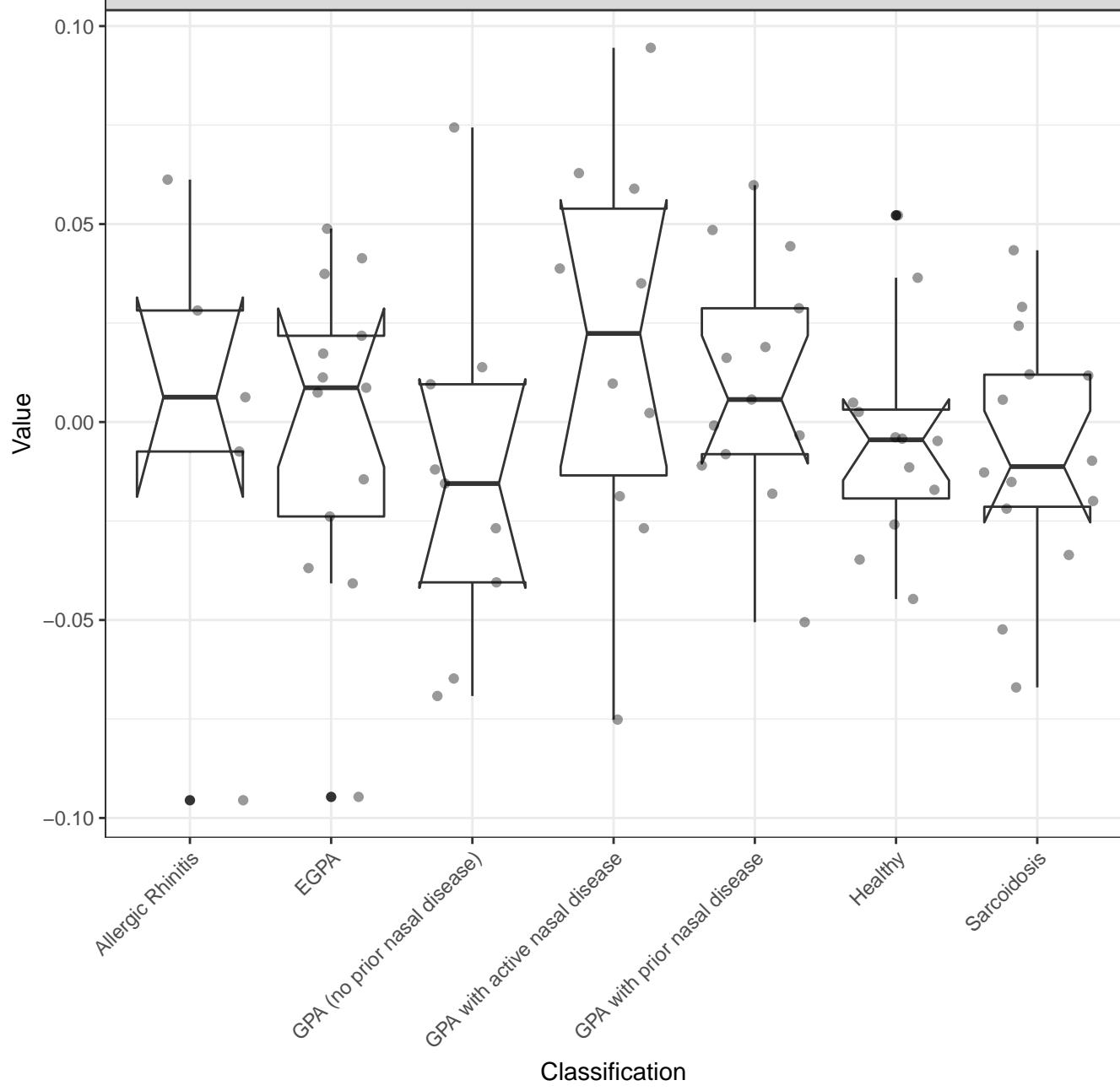
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 249



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

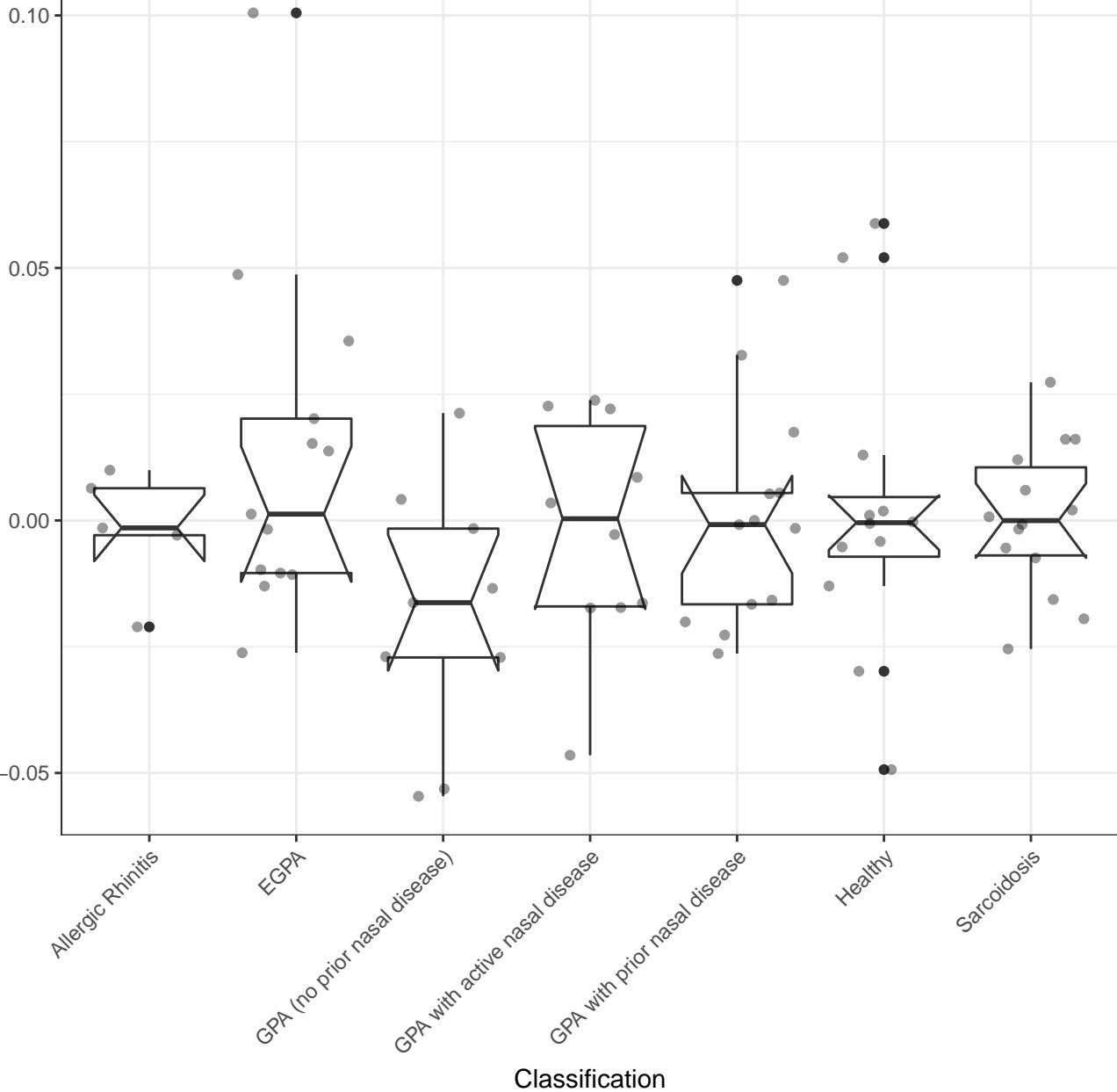
GPA with prior nasal disease

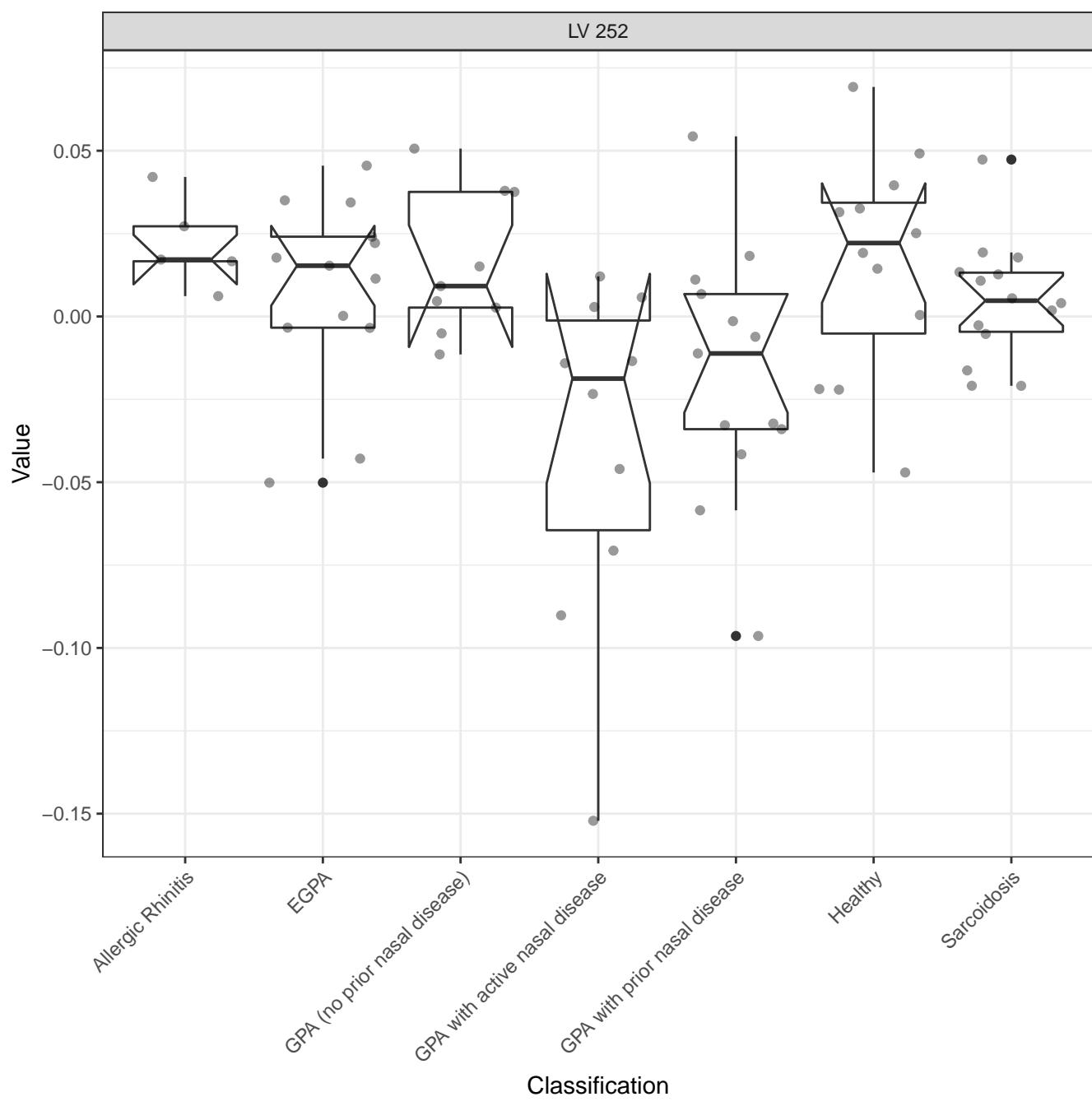
Healthy

Sarcoidosis

Classification

Value





LV 253

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

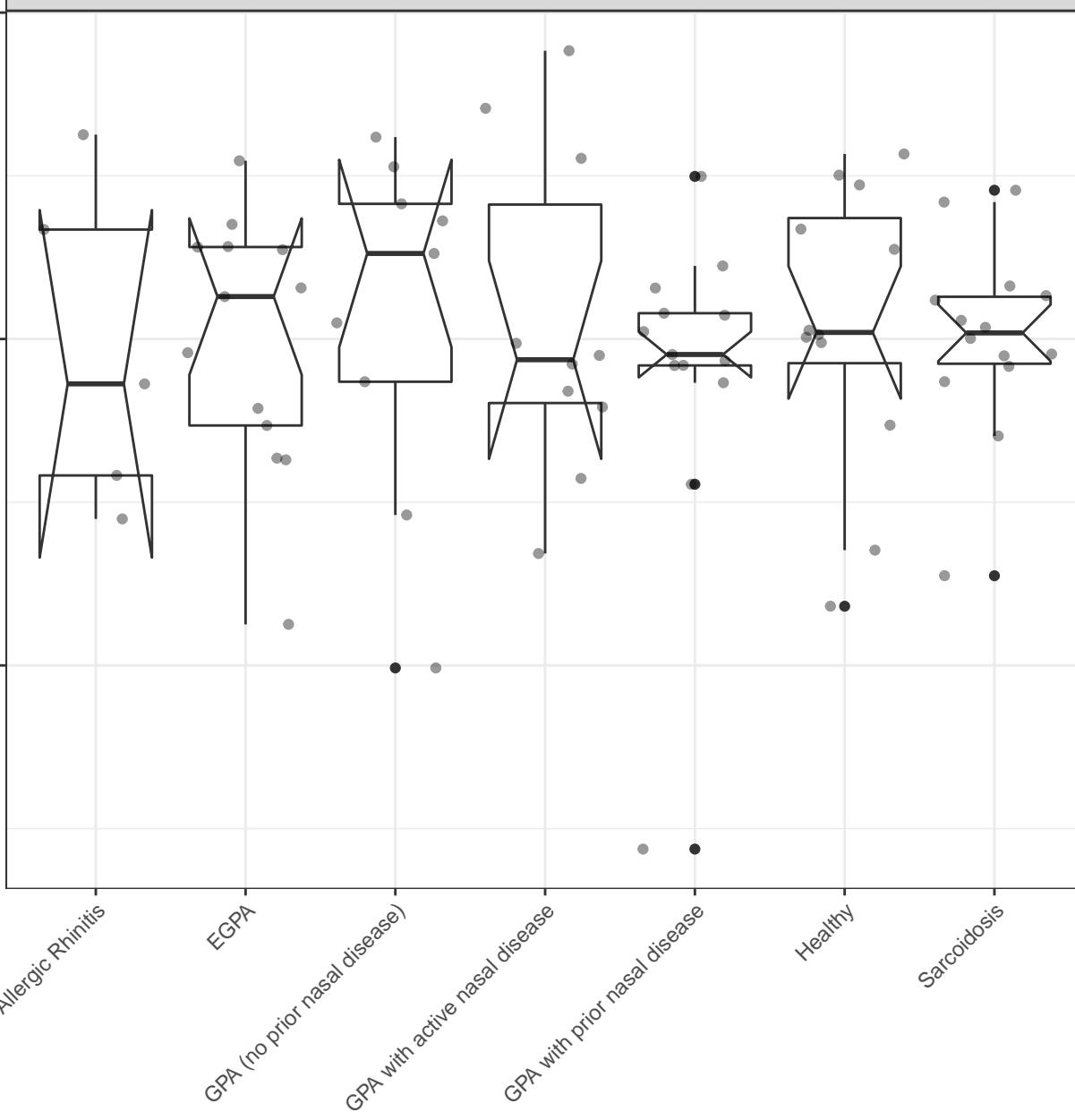
GPA with active nasal disease

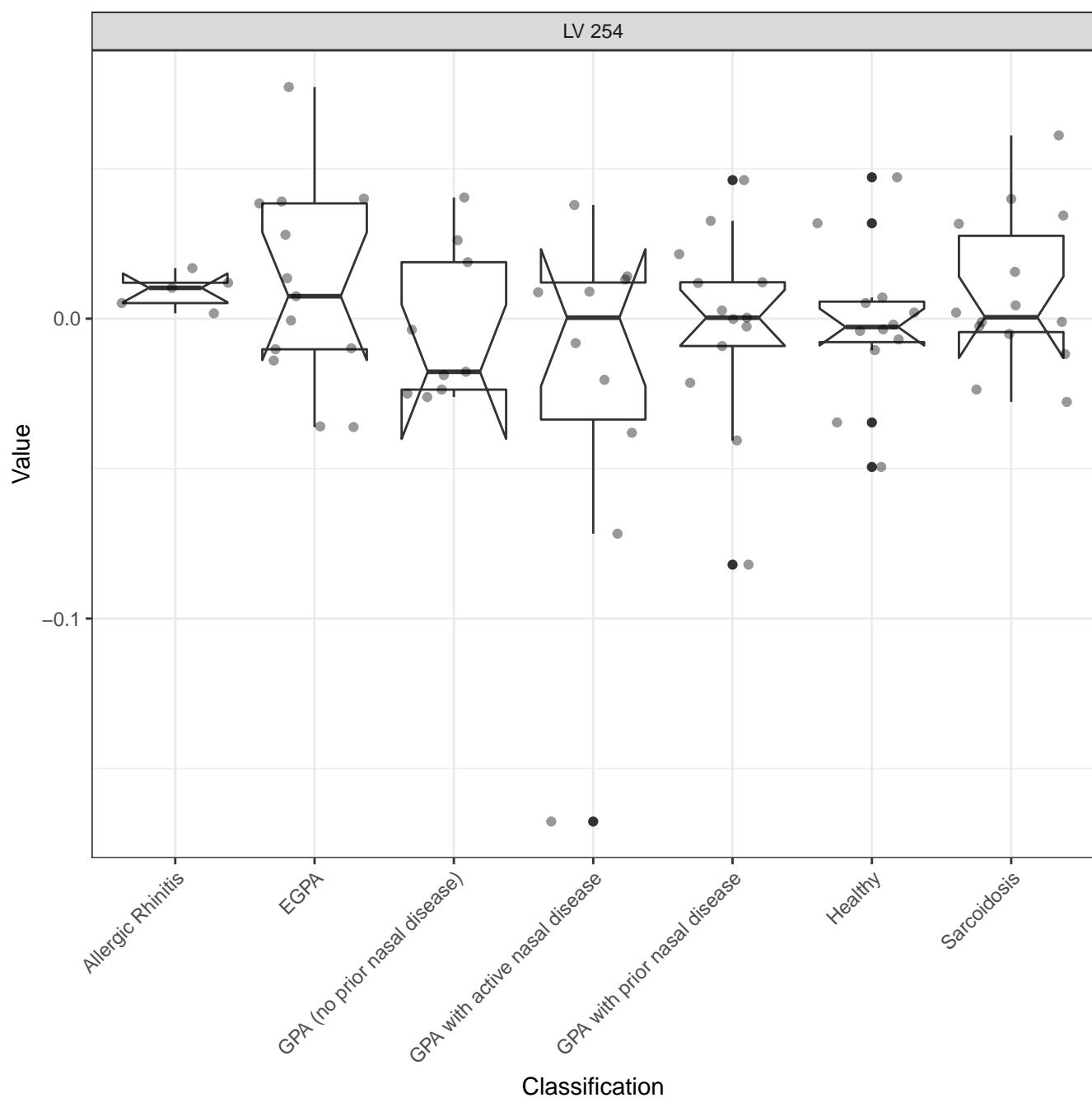
GPA with prior nasal disease

Healthy

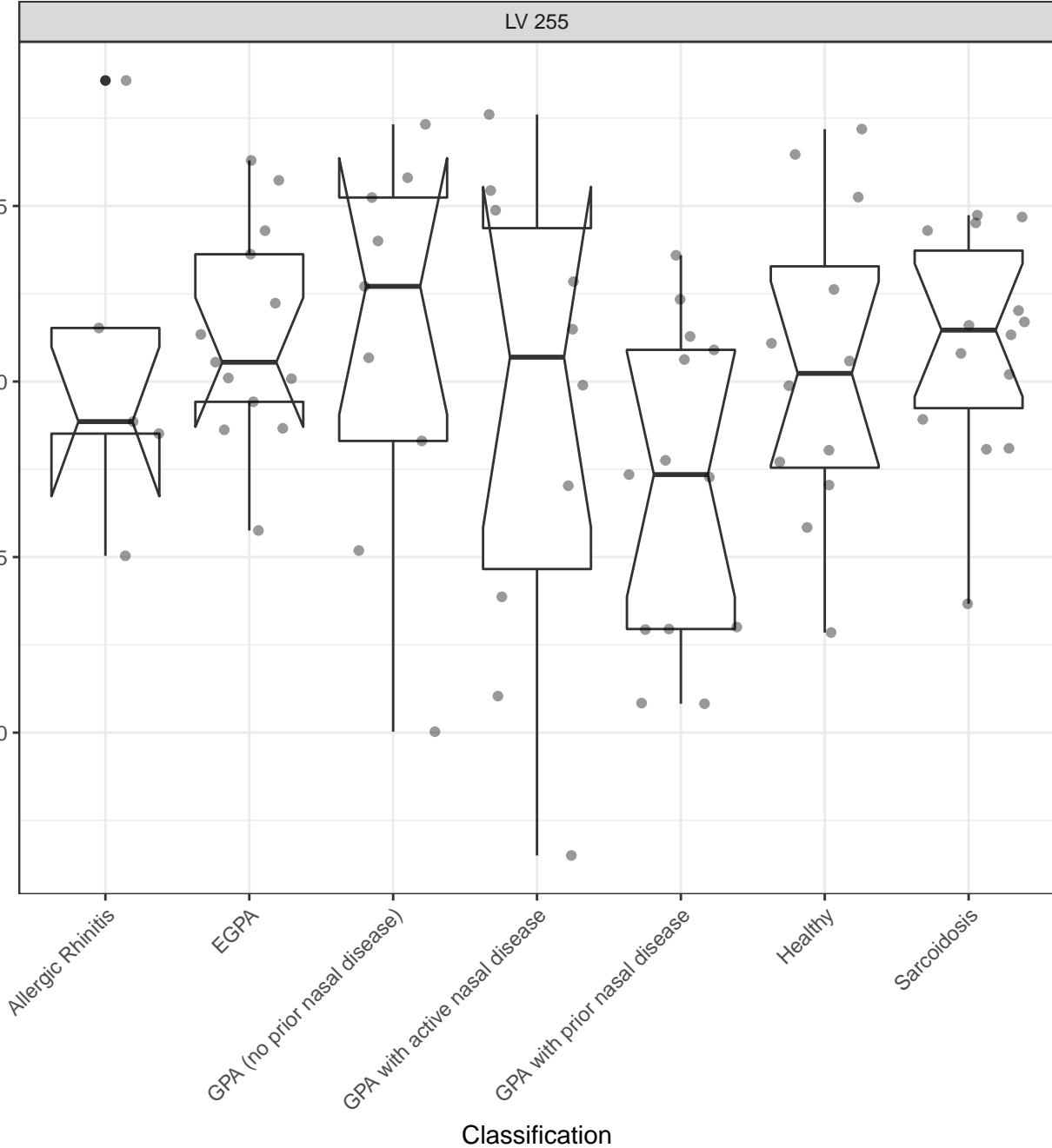
Sarcoidosis

Classification





Value



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

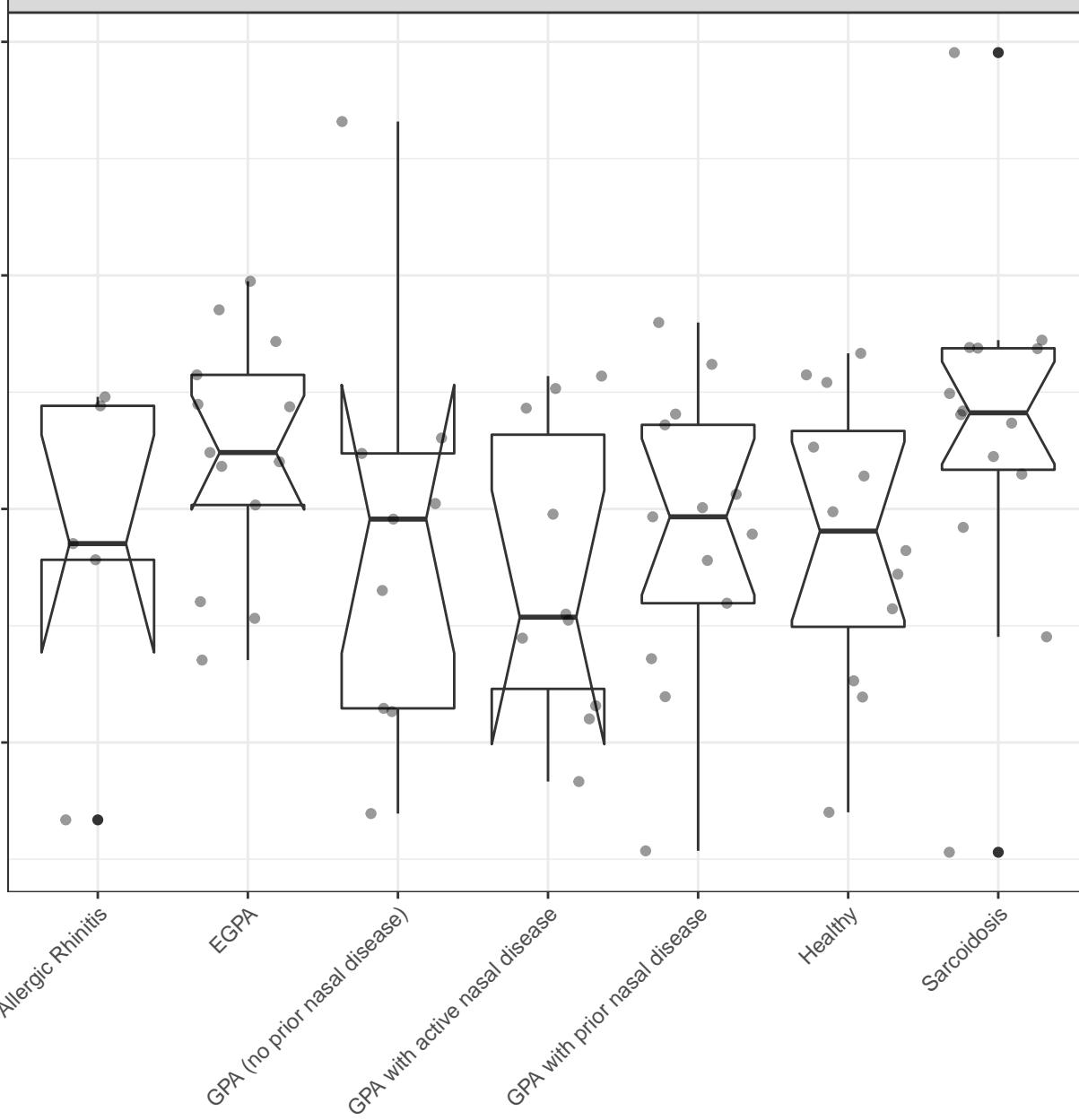
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 257,KEGG\_DILATED\_CARDIOMYOPATHY

Value

0.15

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

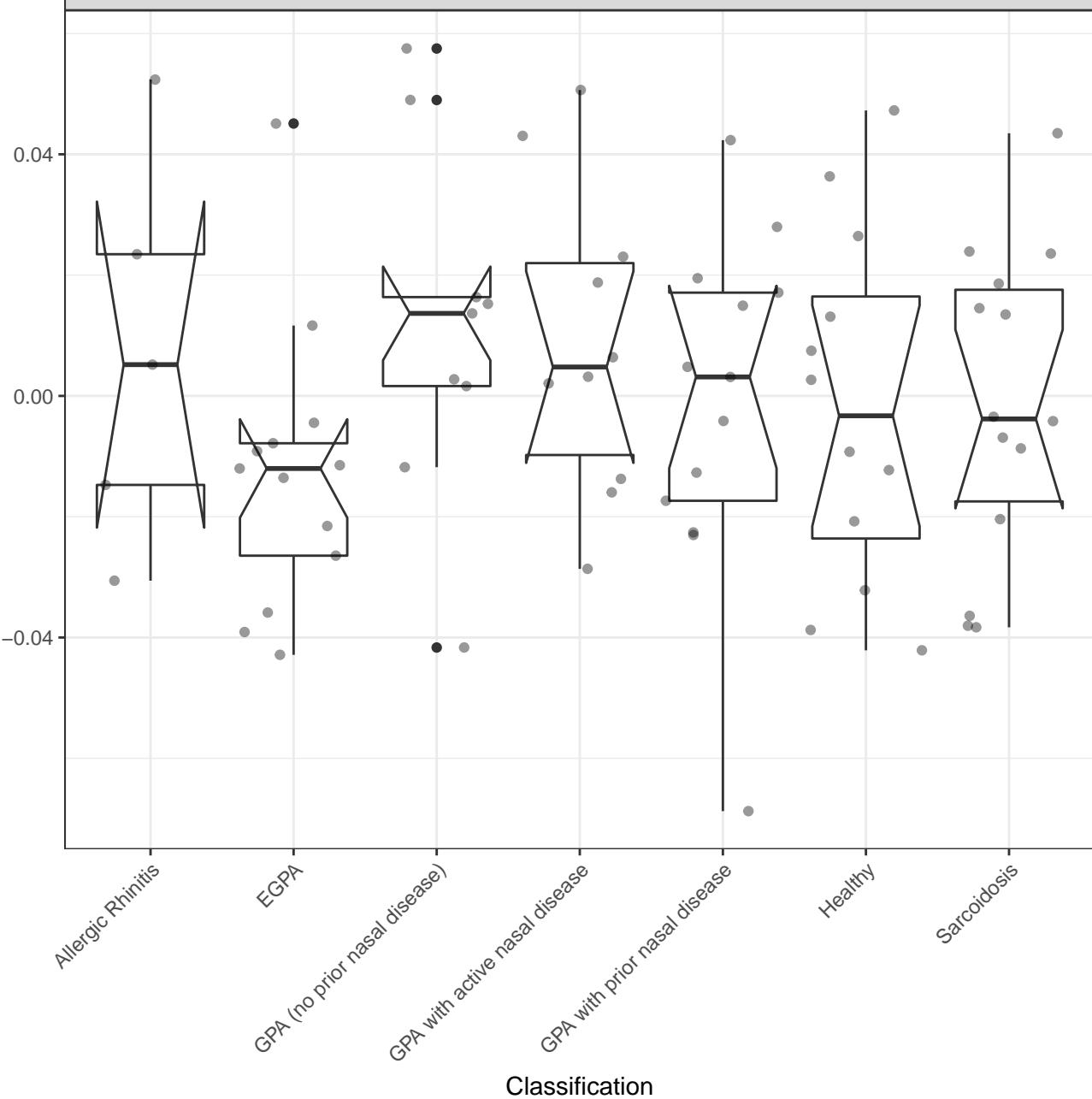
GPA with prior nasal disease

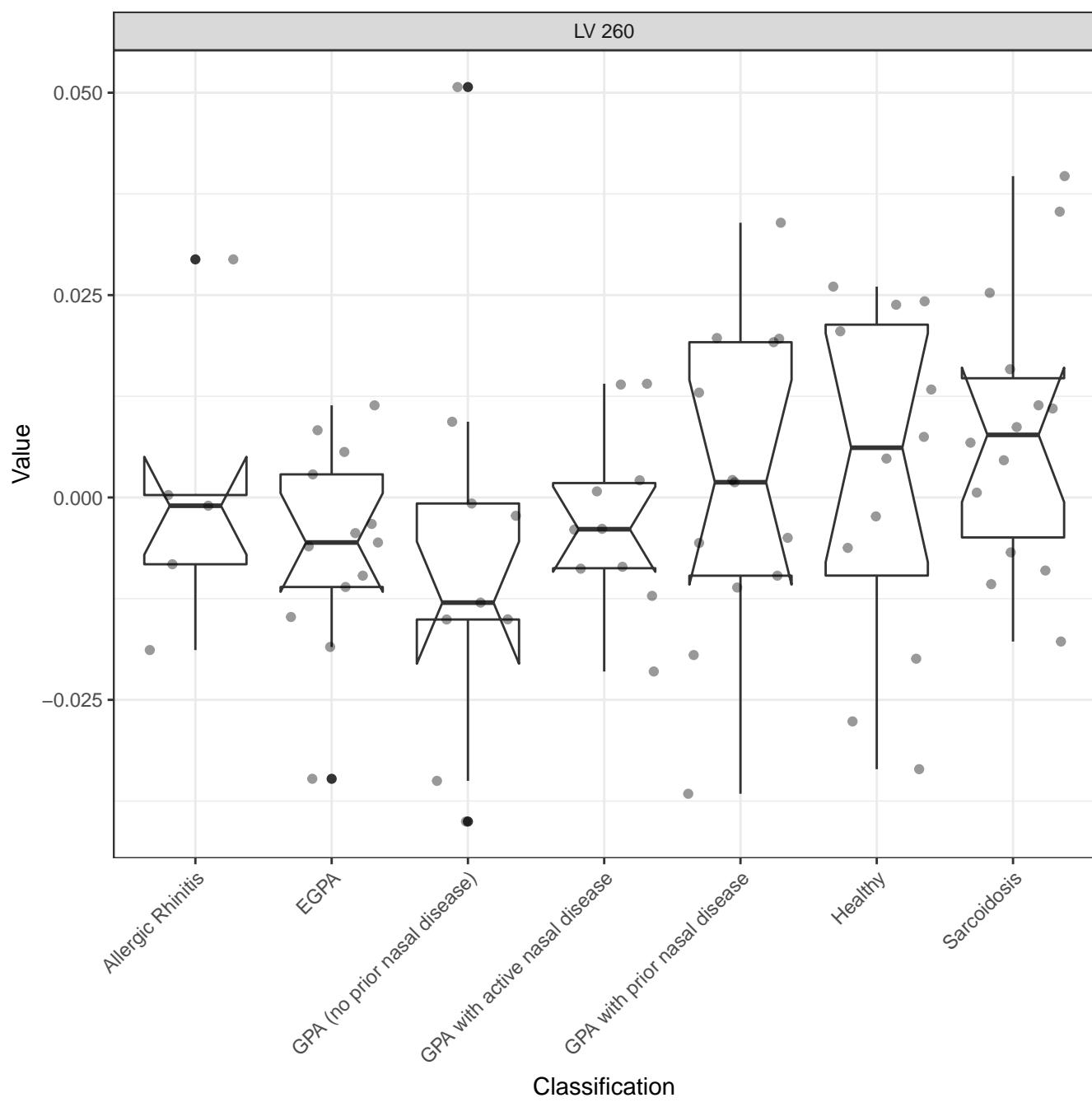
Healthy

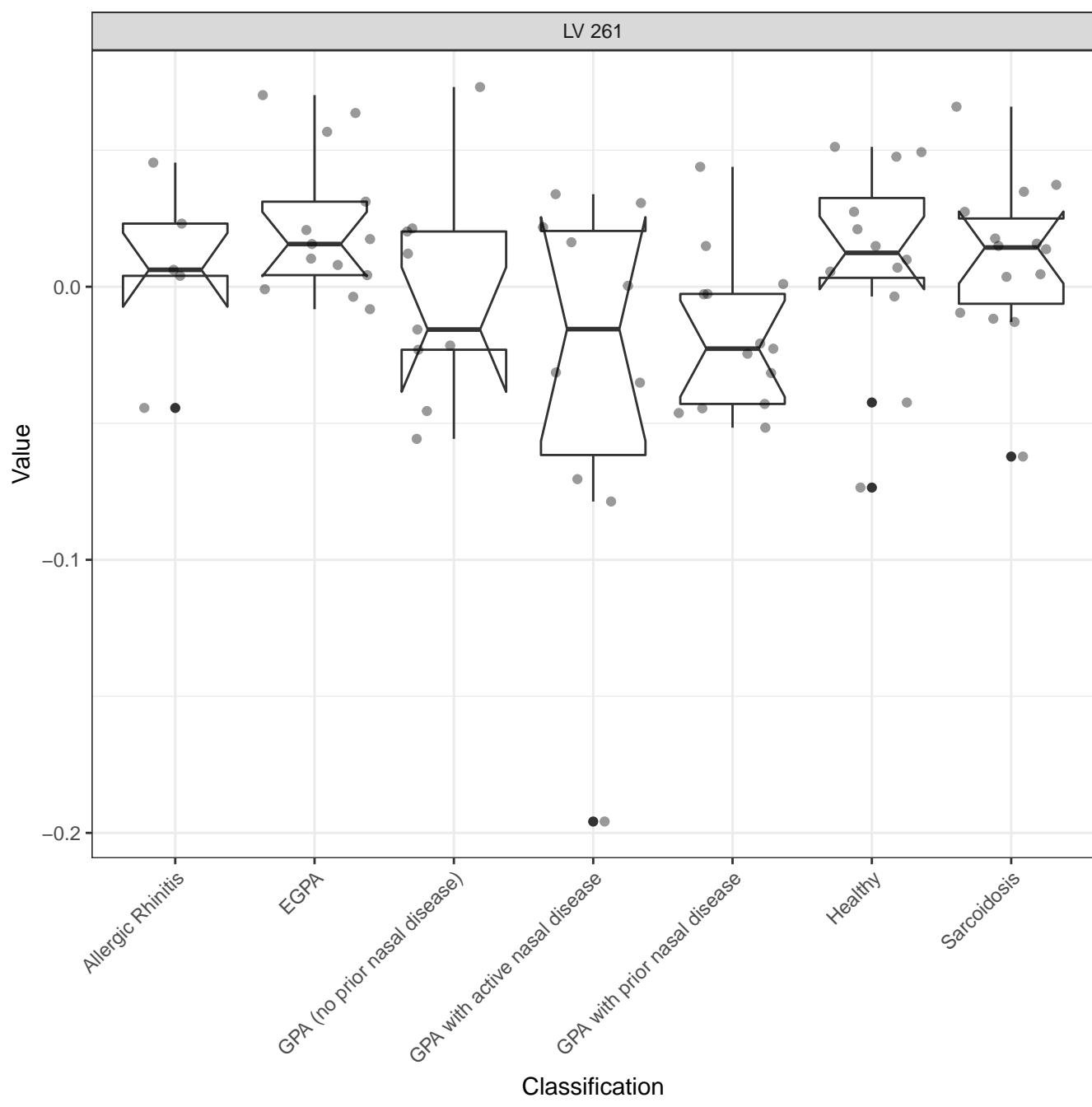
Sarcoidosis

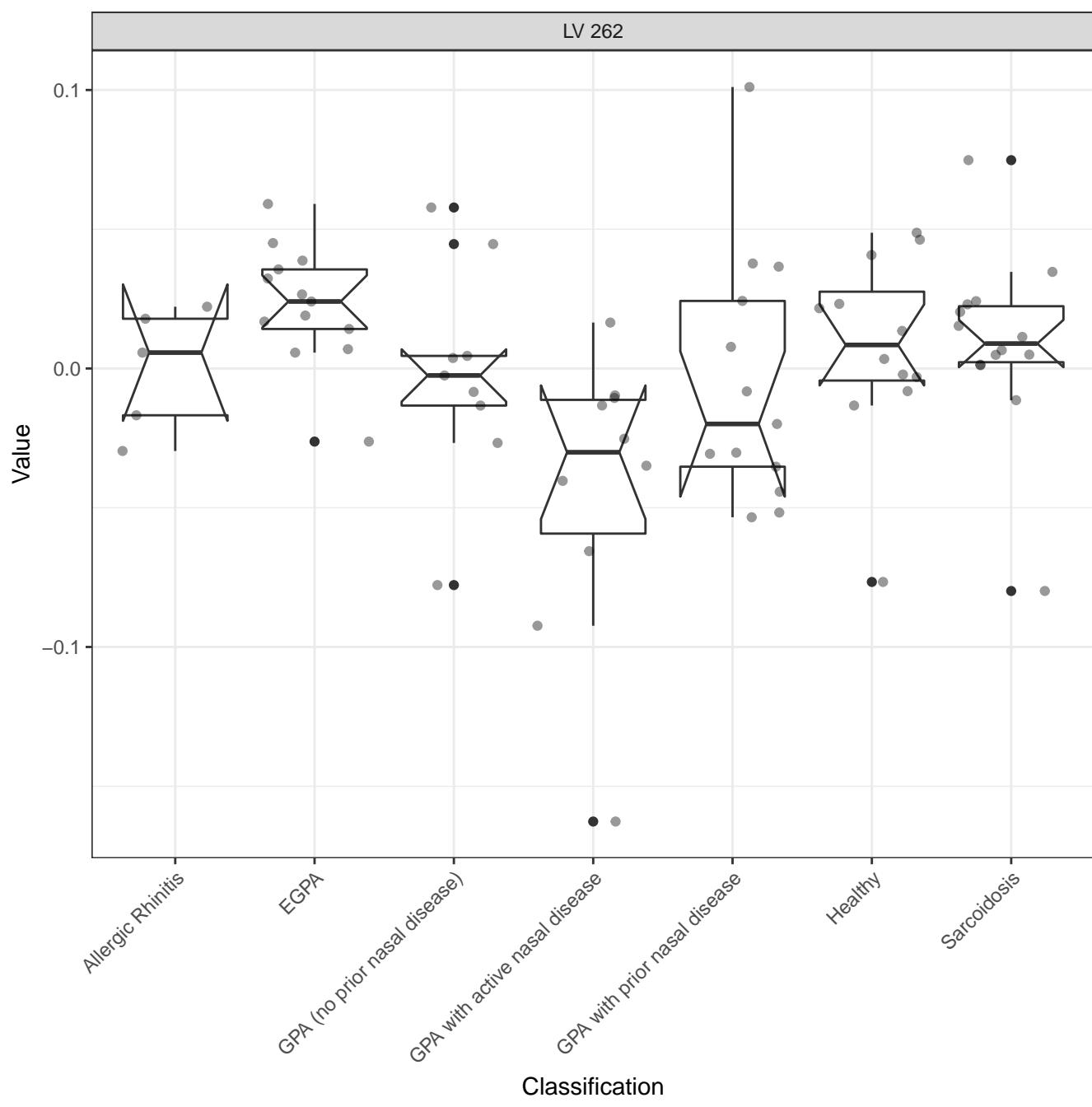
Classification

Value









Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

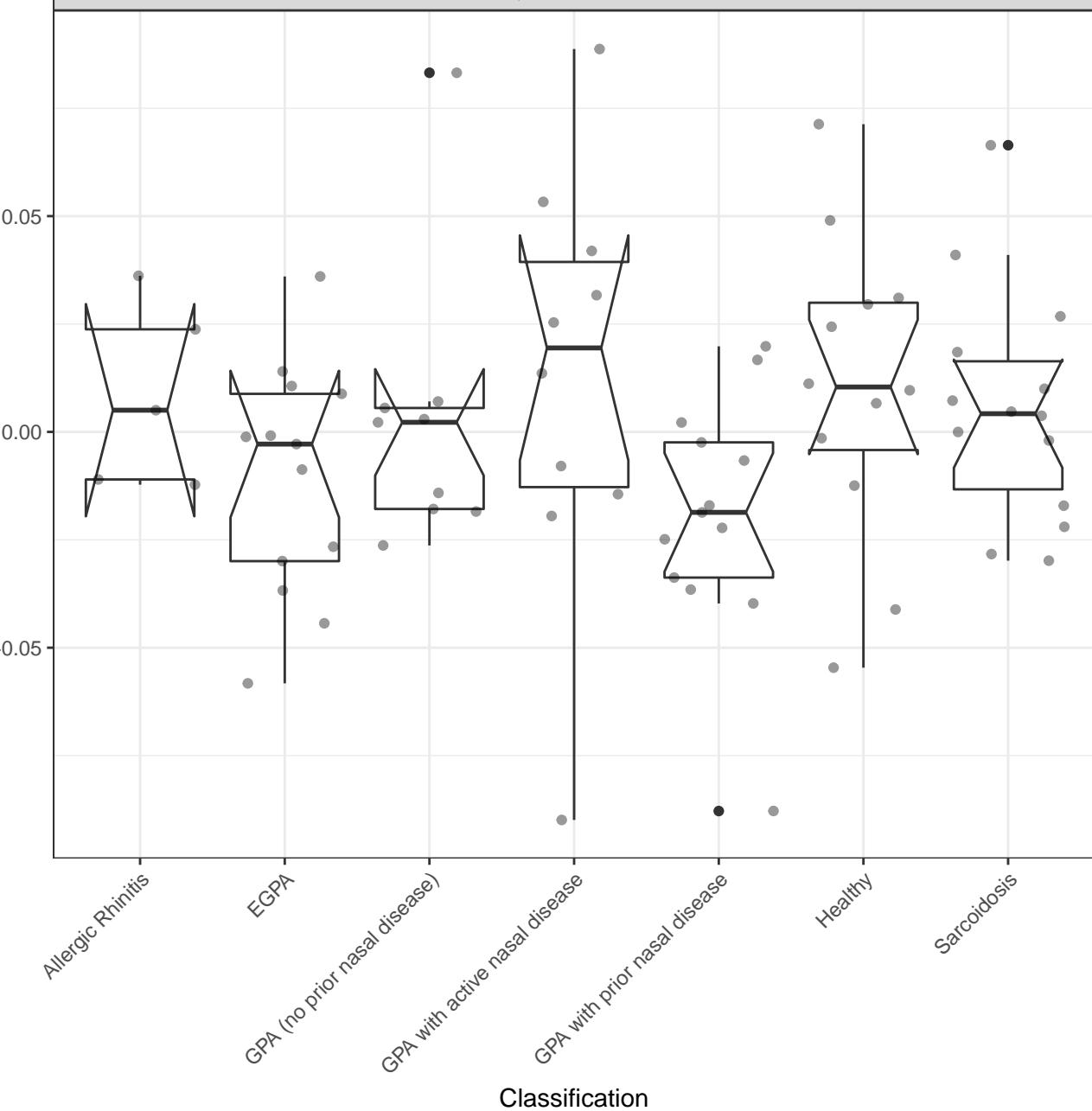
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 266,PID\_FASPATHWAY

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

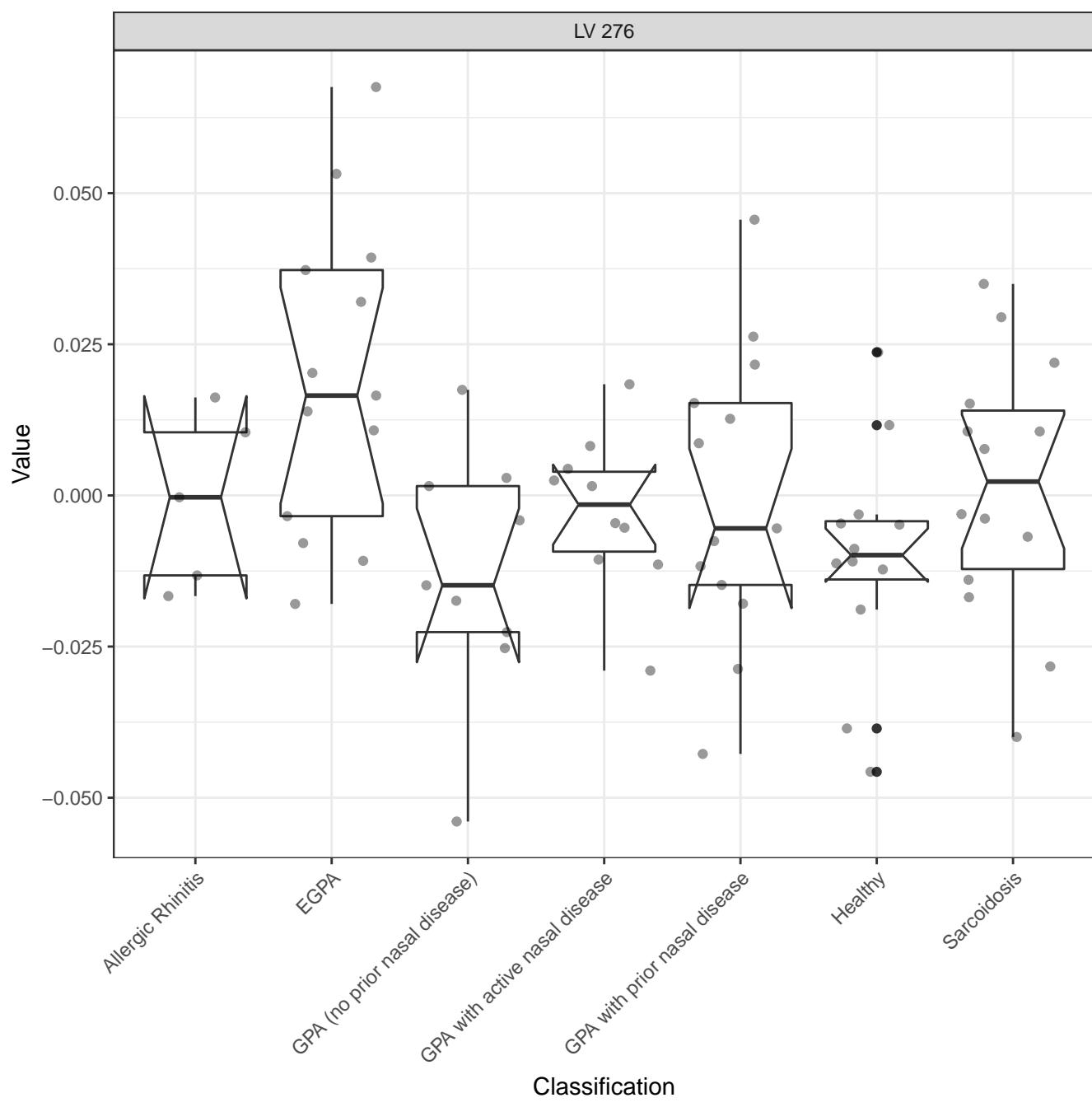
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 281

Value

0.06

0.04

0.02

0.00

-0.02

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

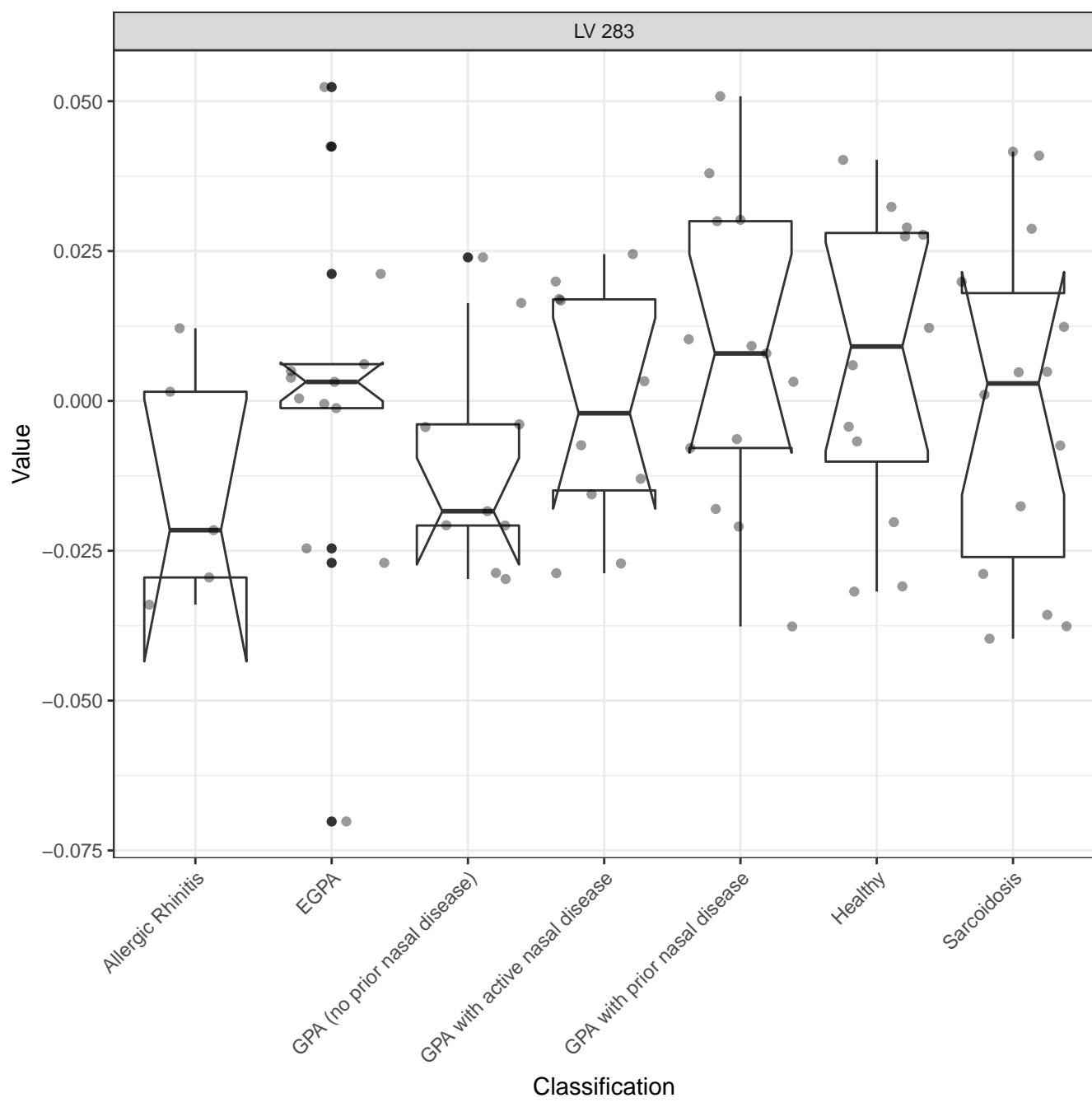
GPA with active nasal disease

GPA with prior nasal disease

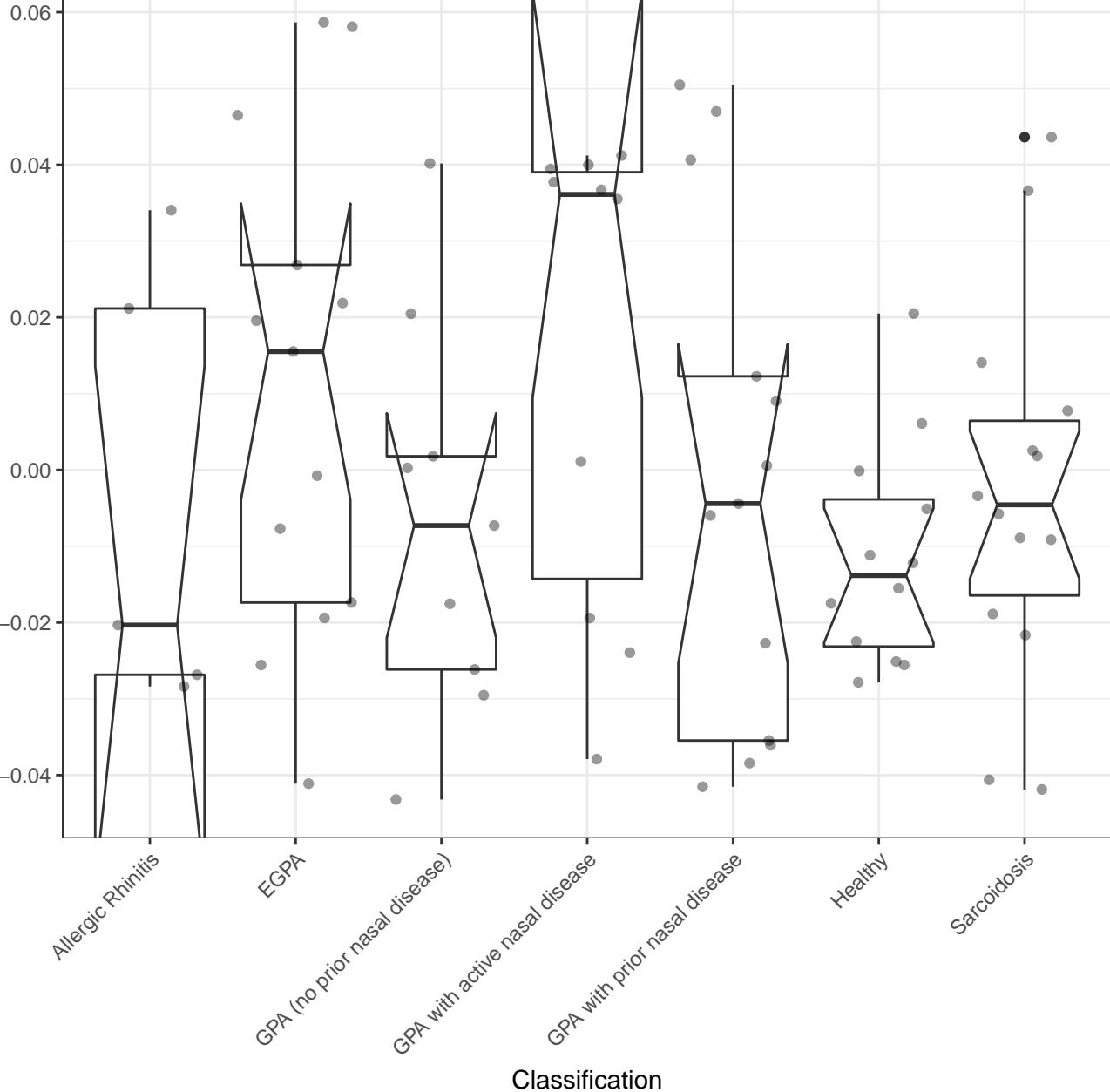
Healthy

Sarcoidosis

Classification



Value



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

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

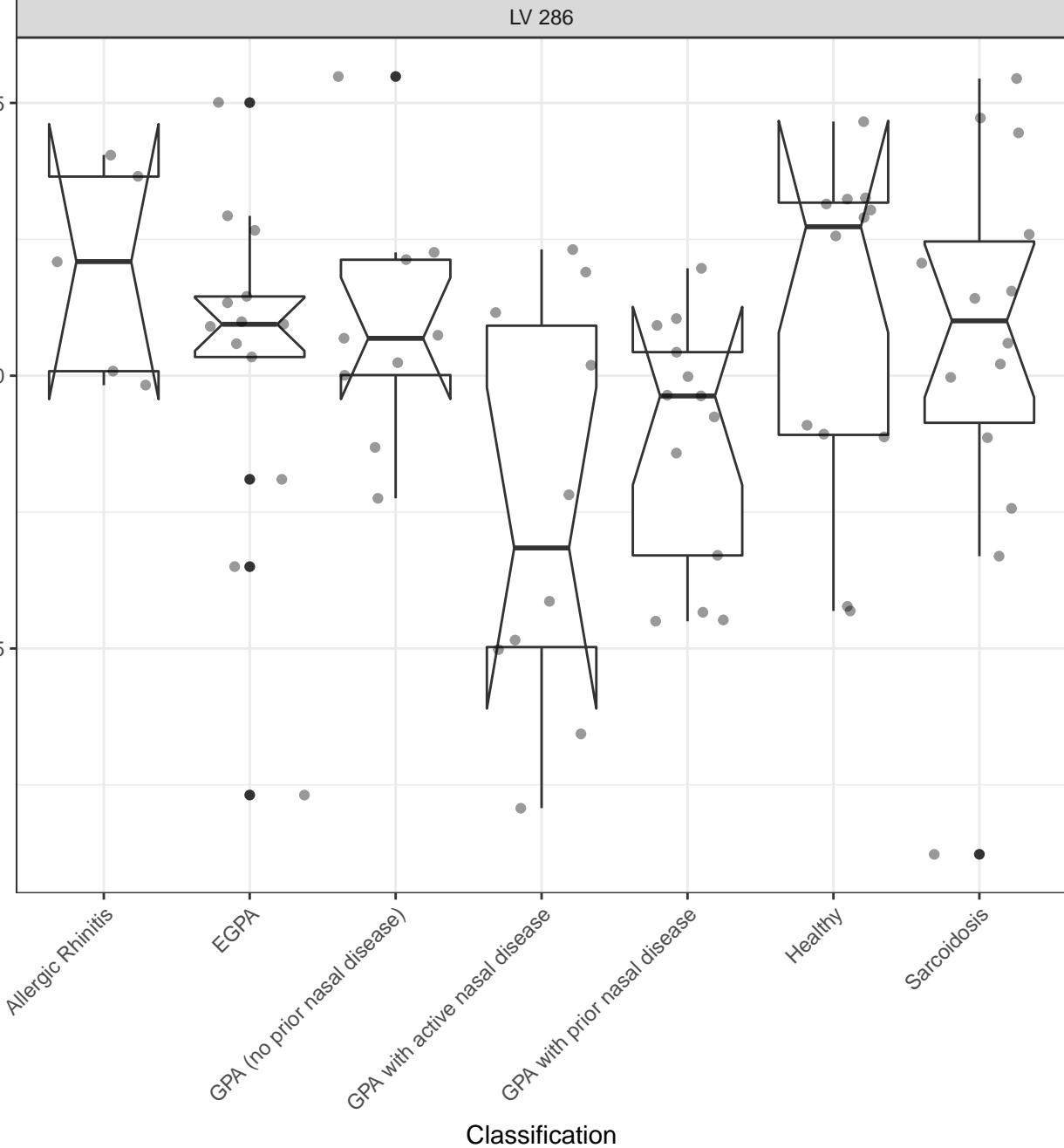
GPA with prior nasal disease

Healthy

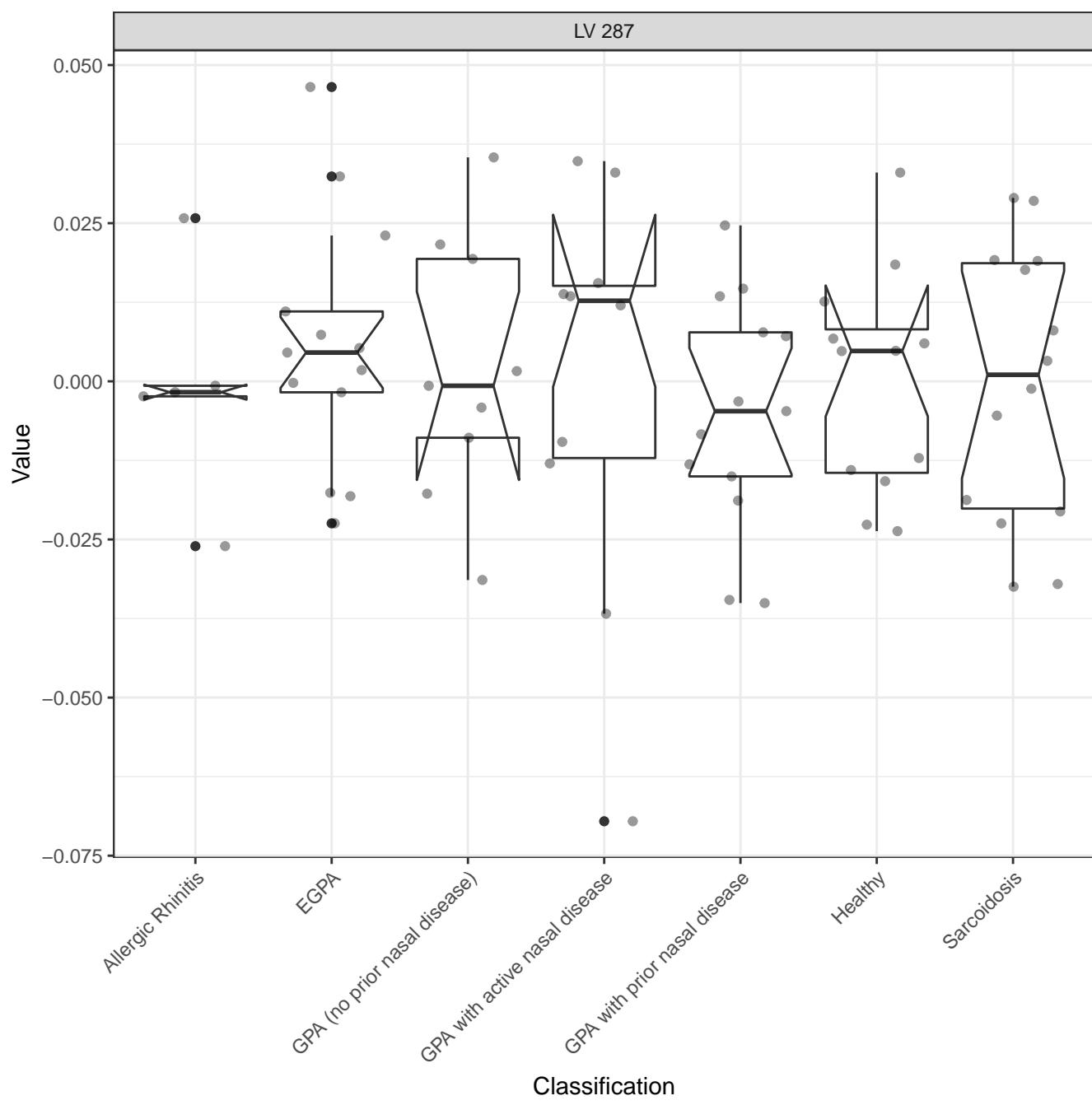
Sarcoidosis

Classification

Value



LV 287



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

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

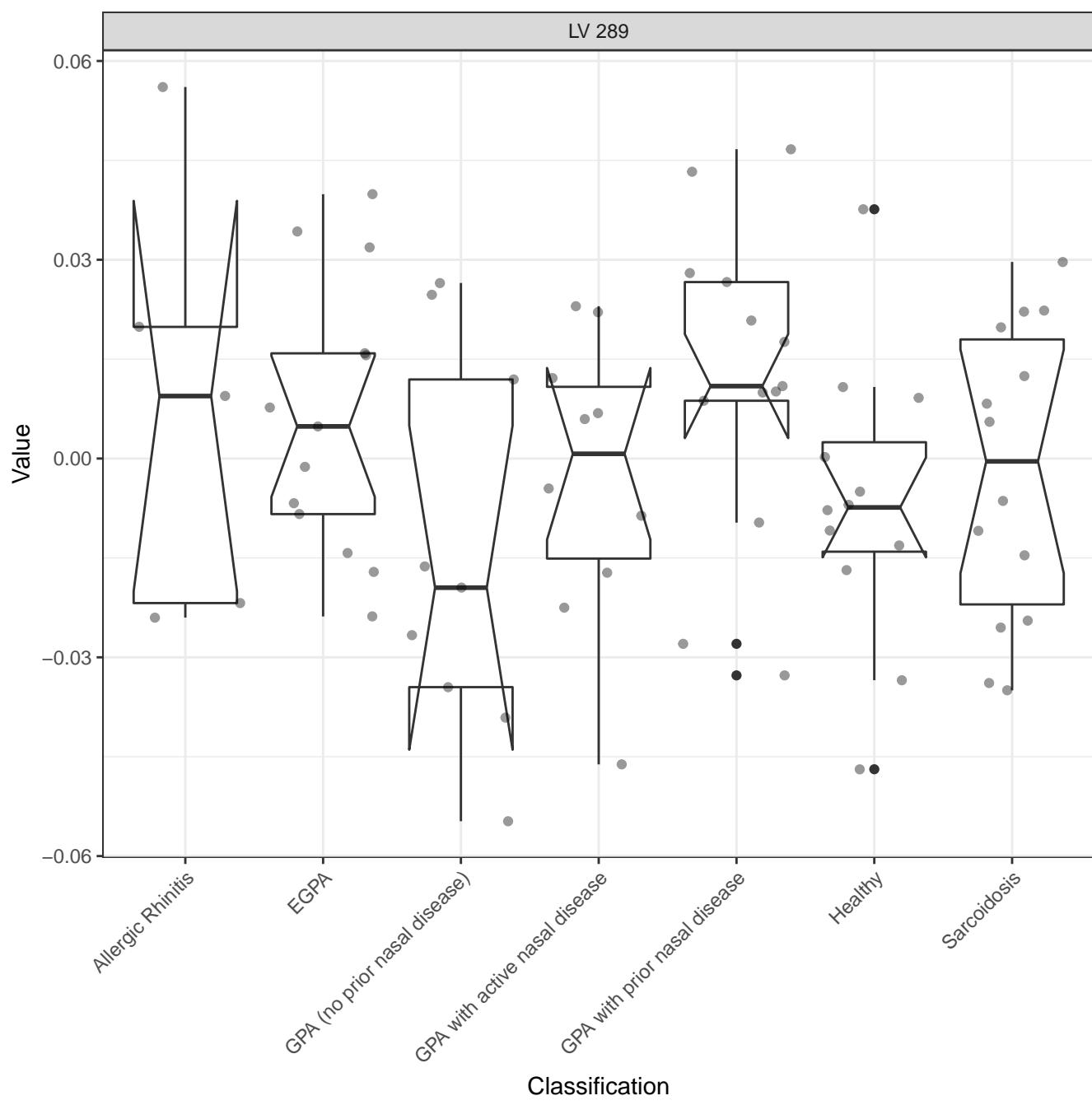
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.06

0.03

0.00

-0.03

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

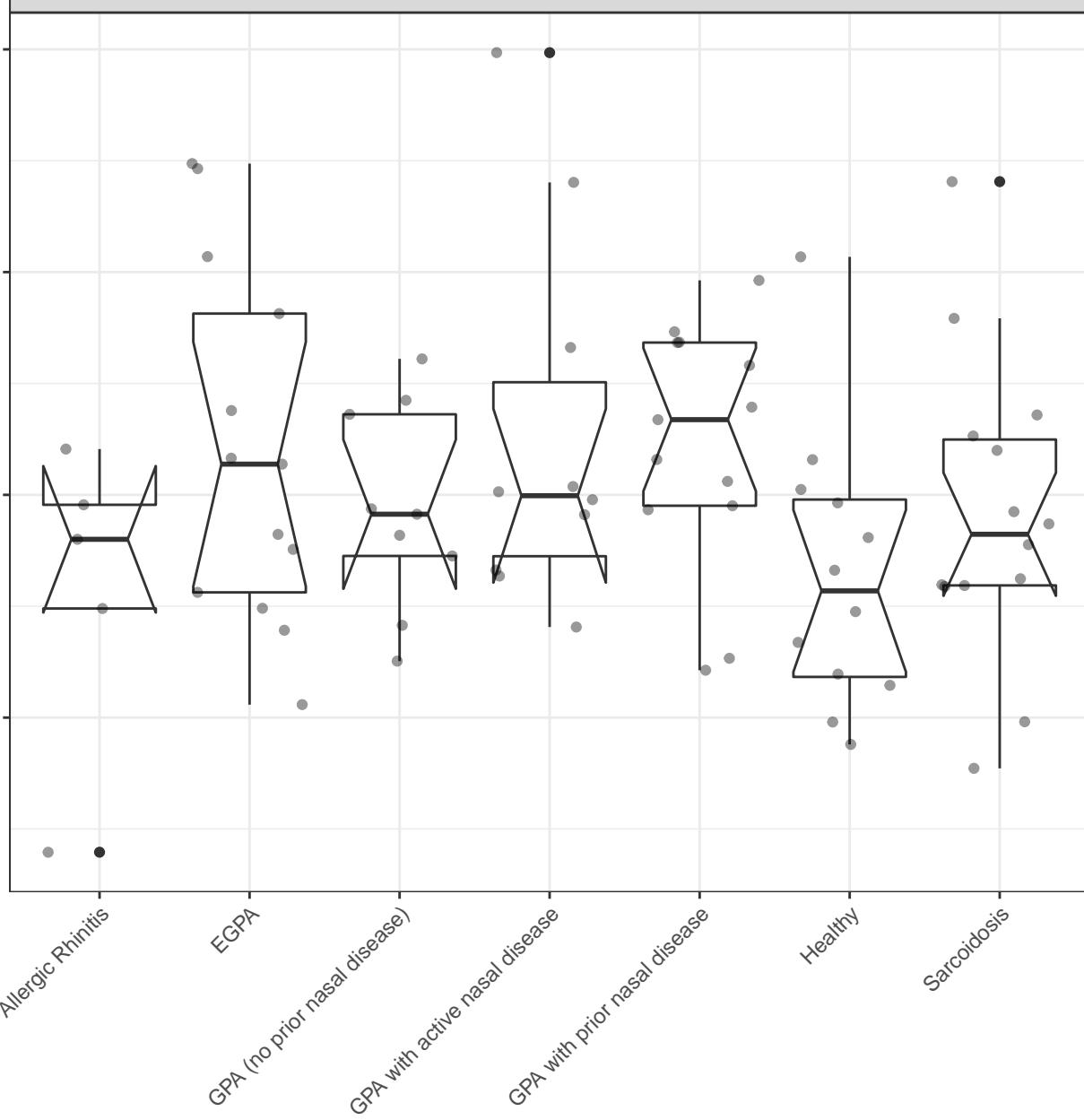
GPA with active nasal disease

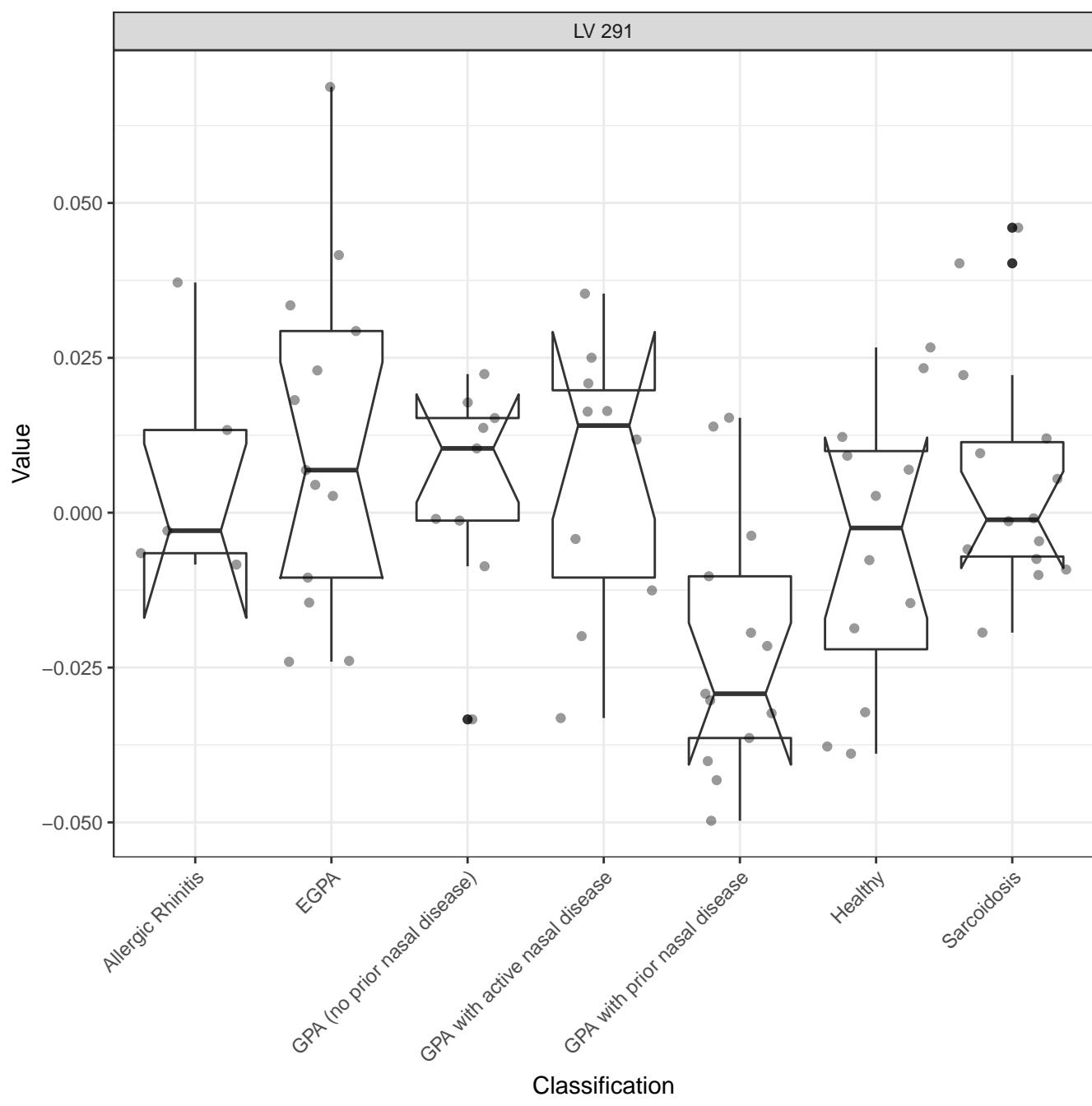
GPA with prior nasal disease

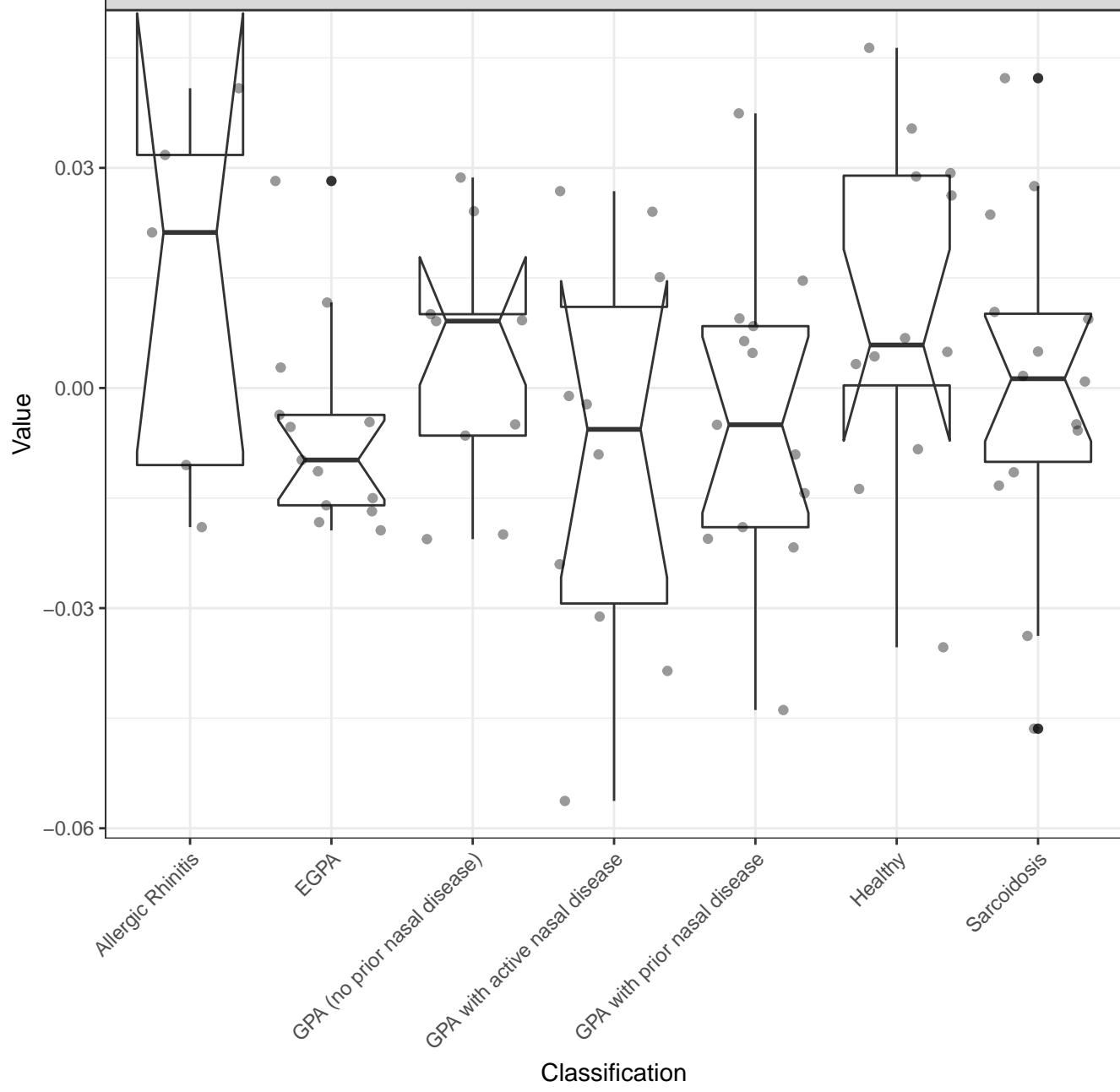
Healthy

Sarcoidosis

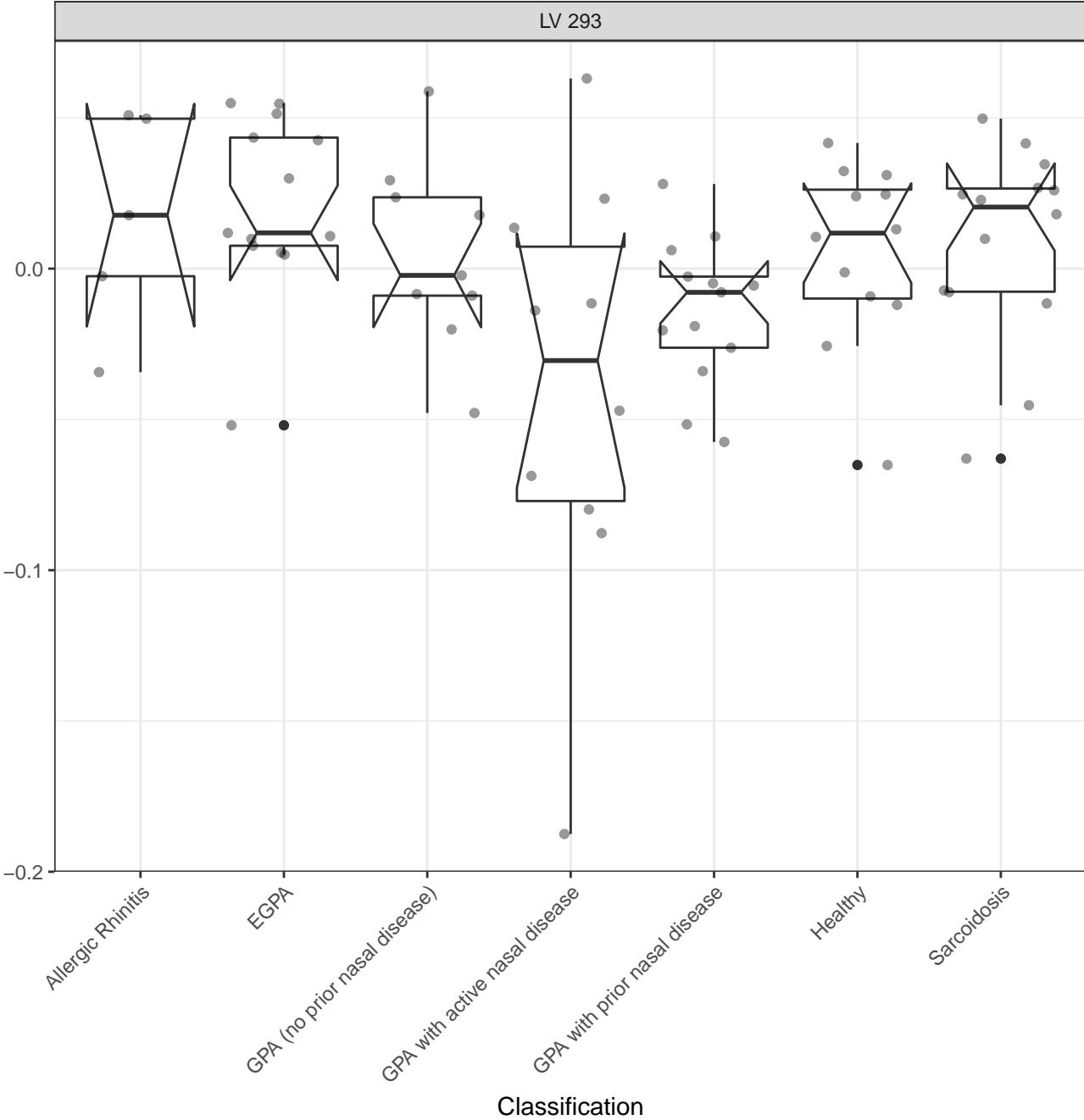
Classification







Value



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

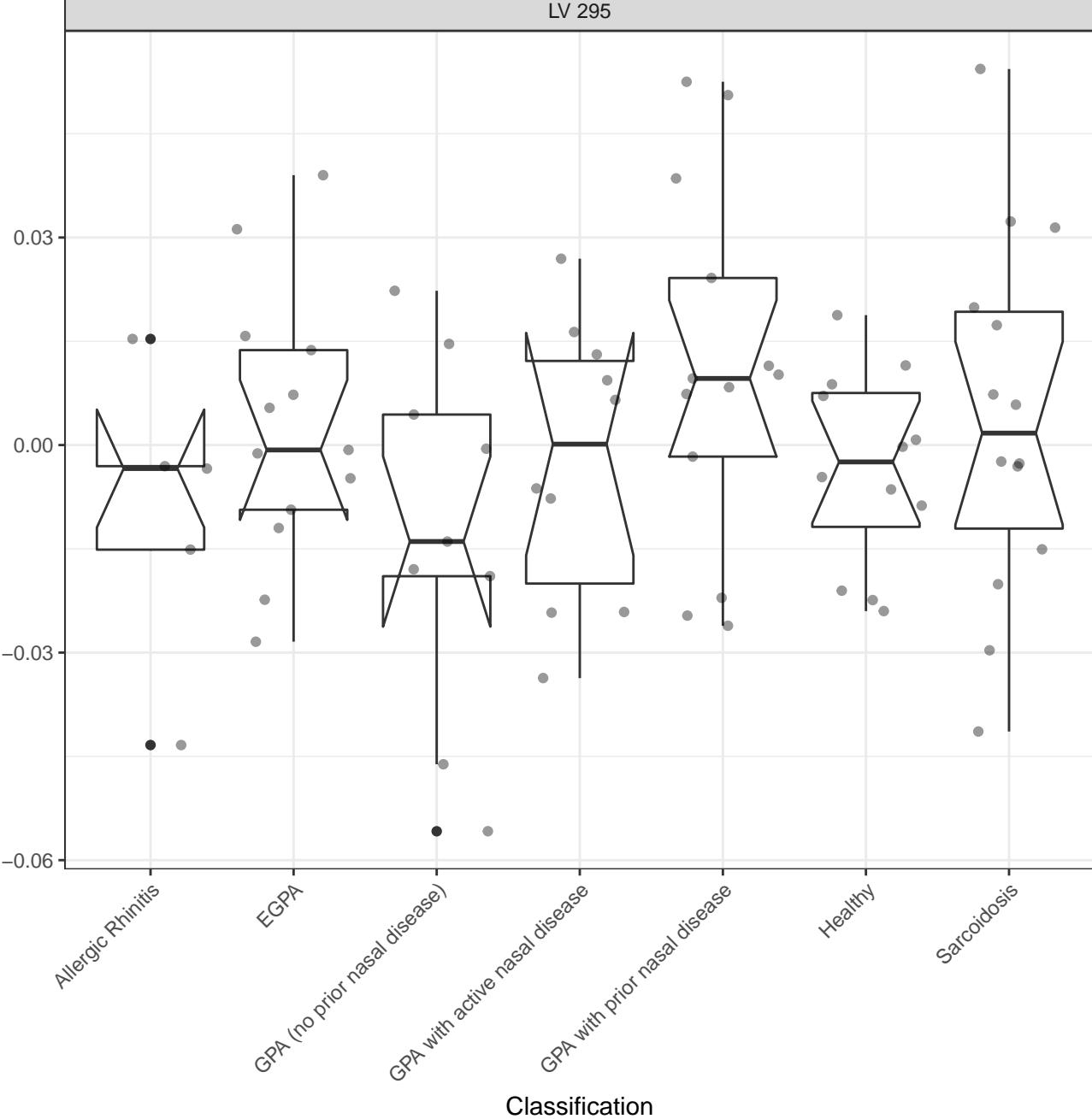
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



## 296,REACTOME\_TELOMERE\_MAINTENANCE

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

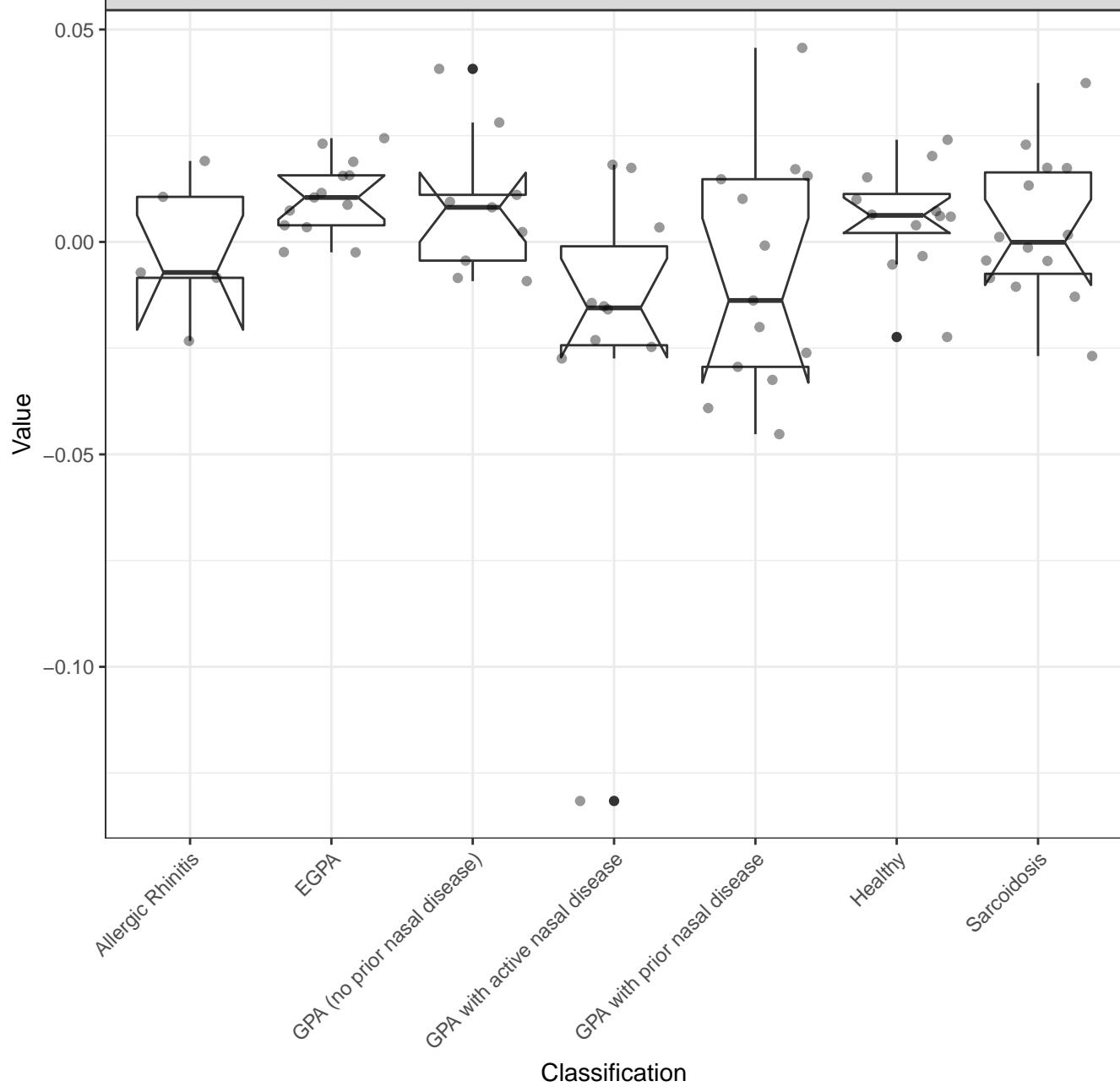
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 297



Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 299

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

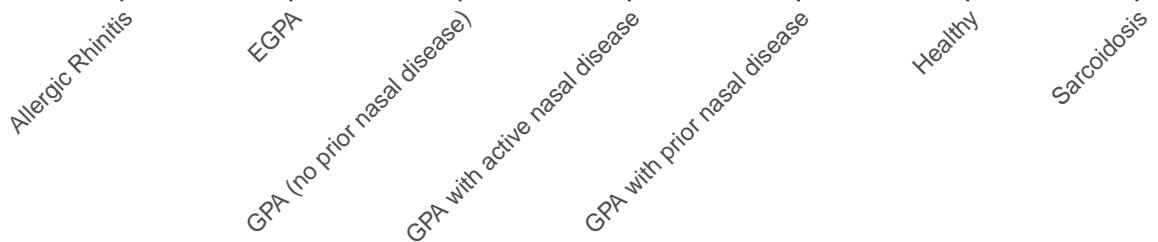
## 300,REACTOME\_REGULATION\_OF\_APOPTOSIS

Value

0.0

-0.1

-0.2



Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

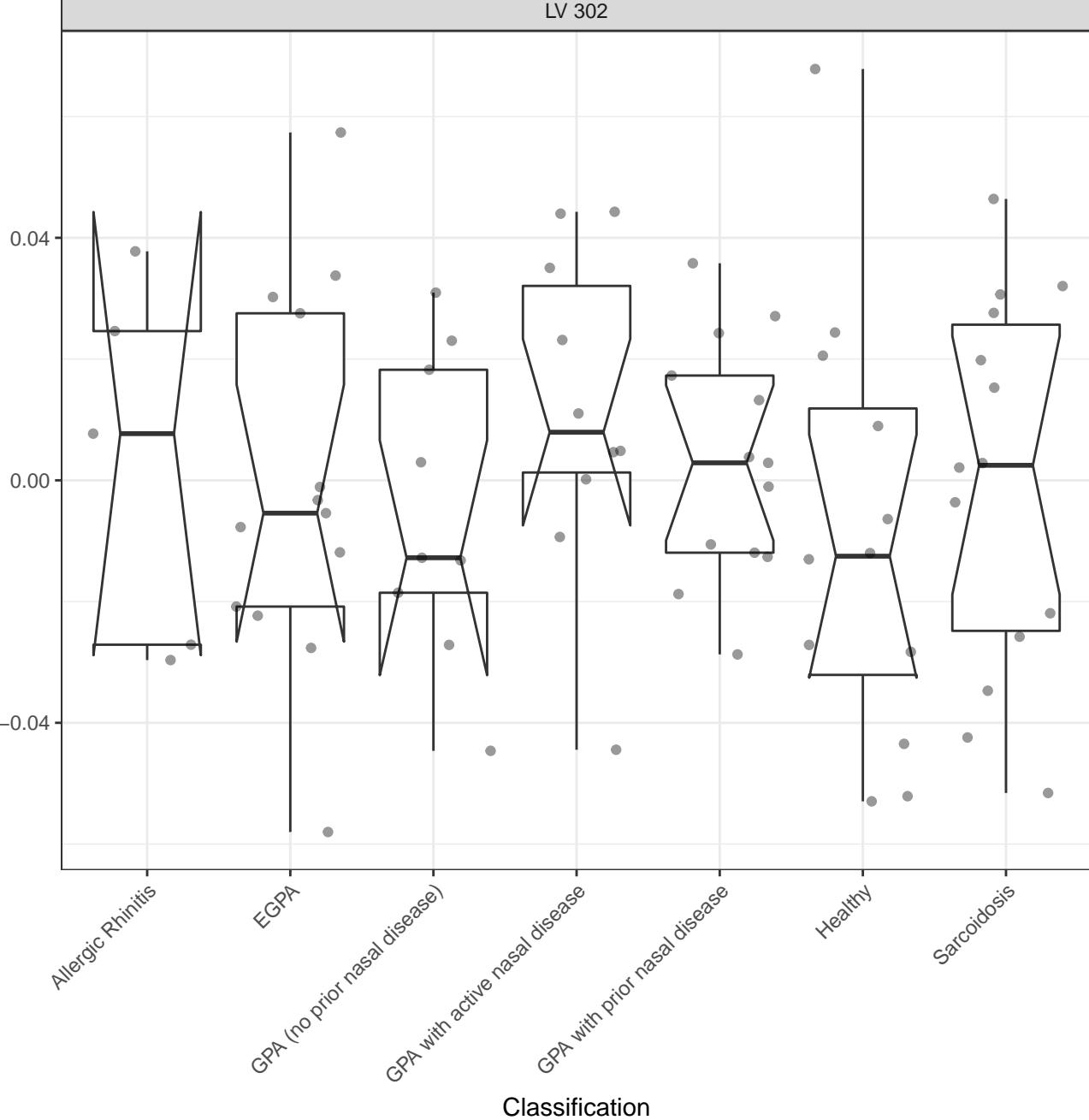
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

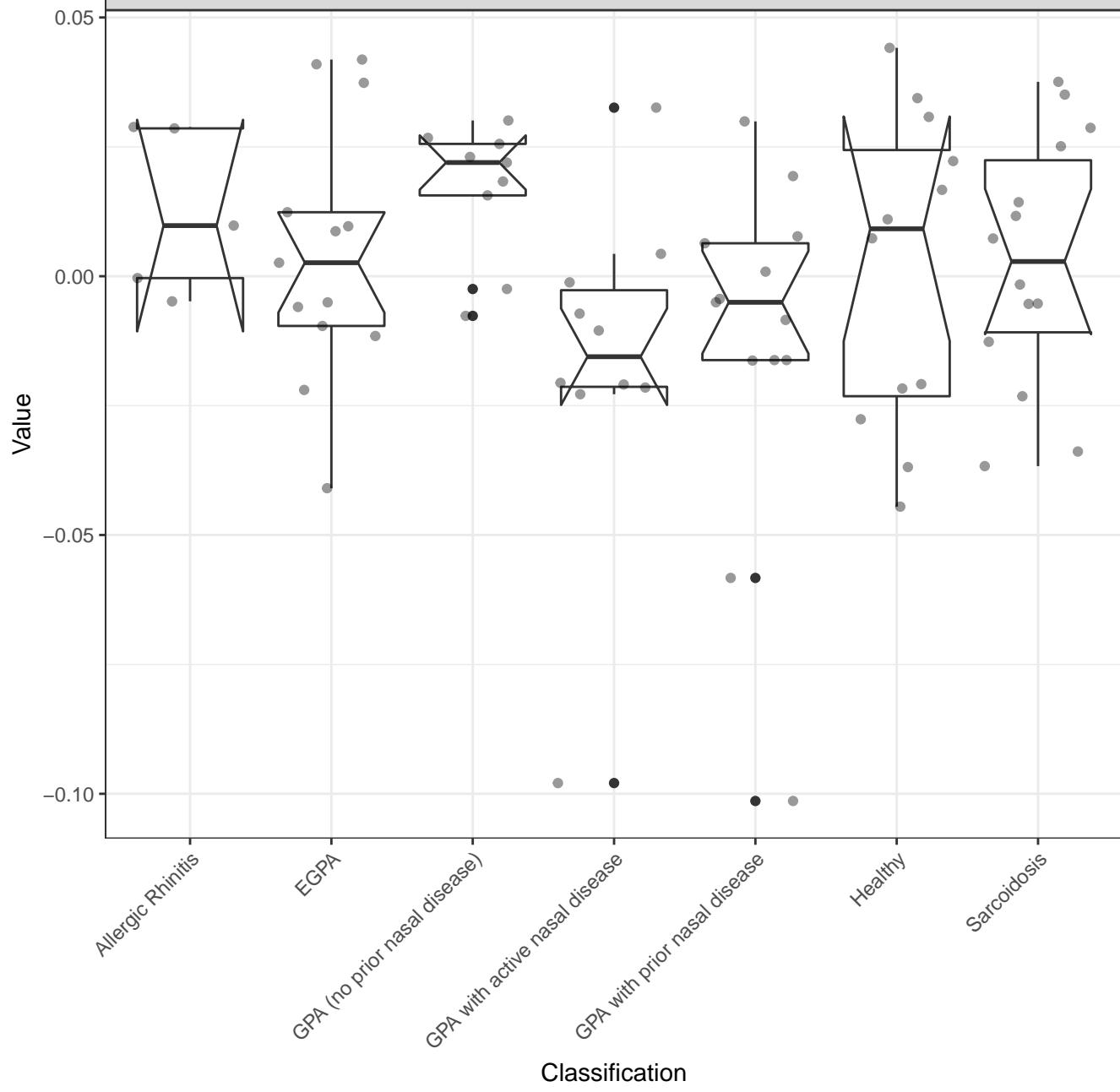
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

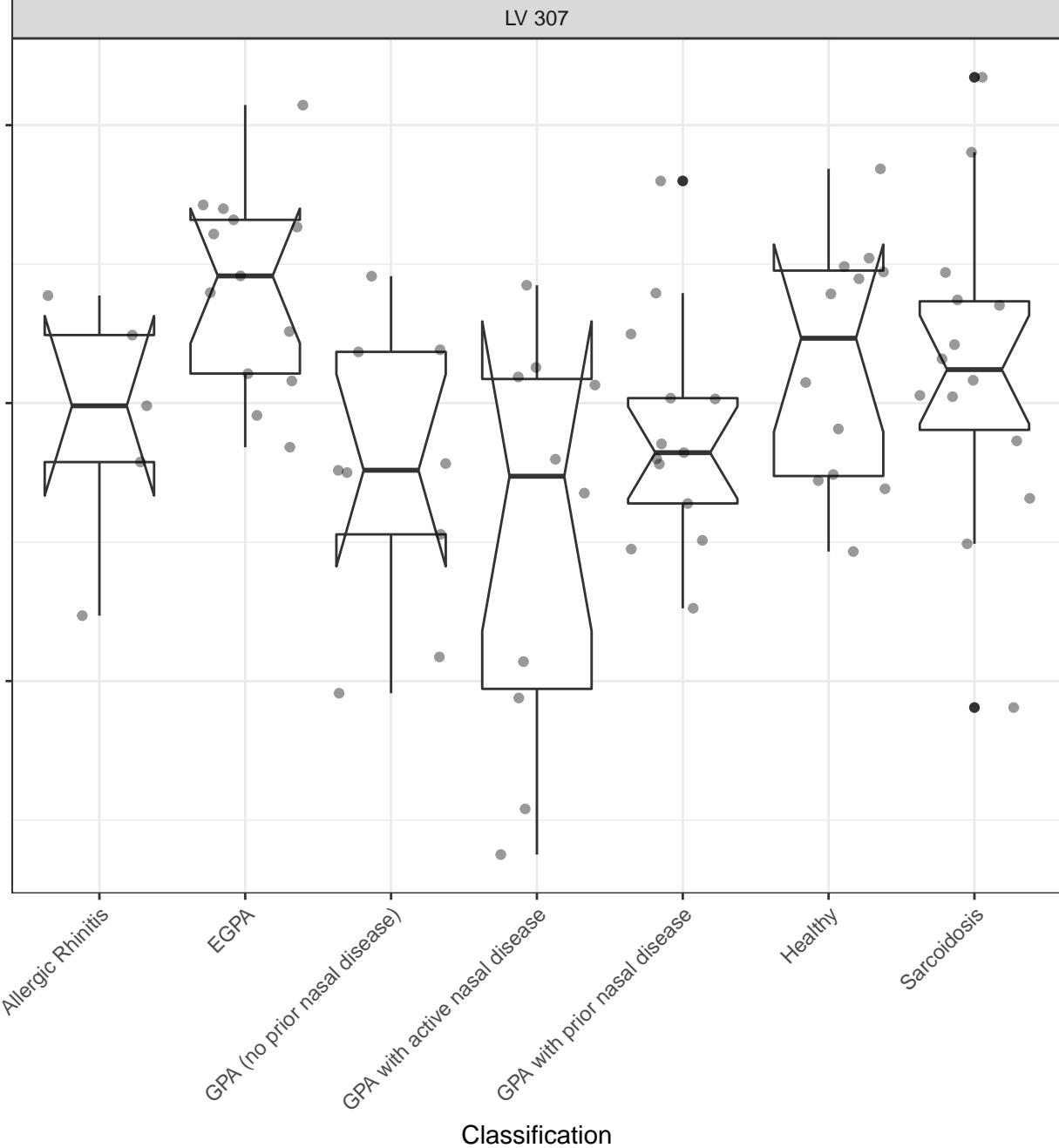
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

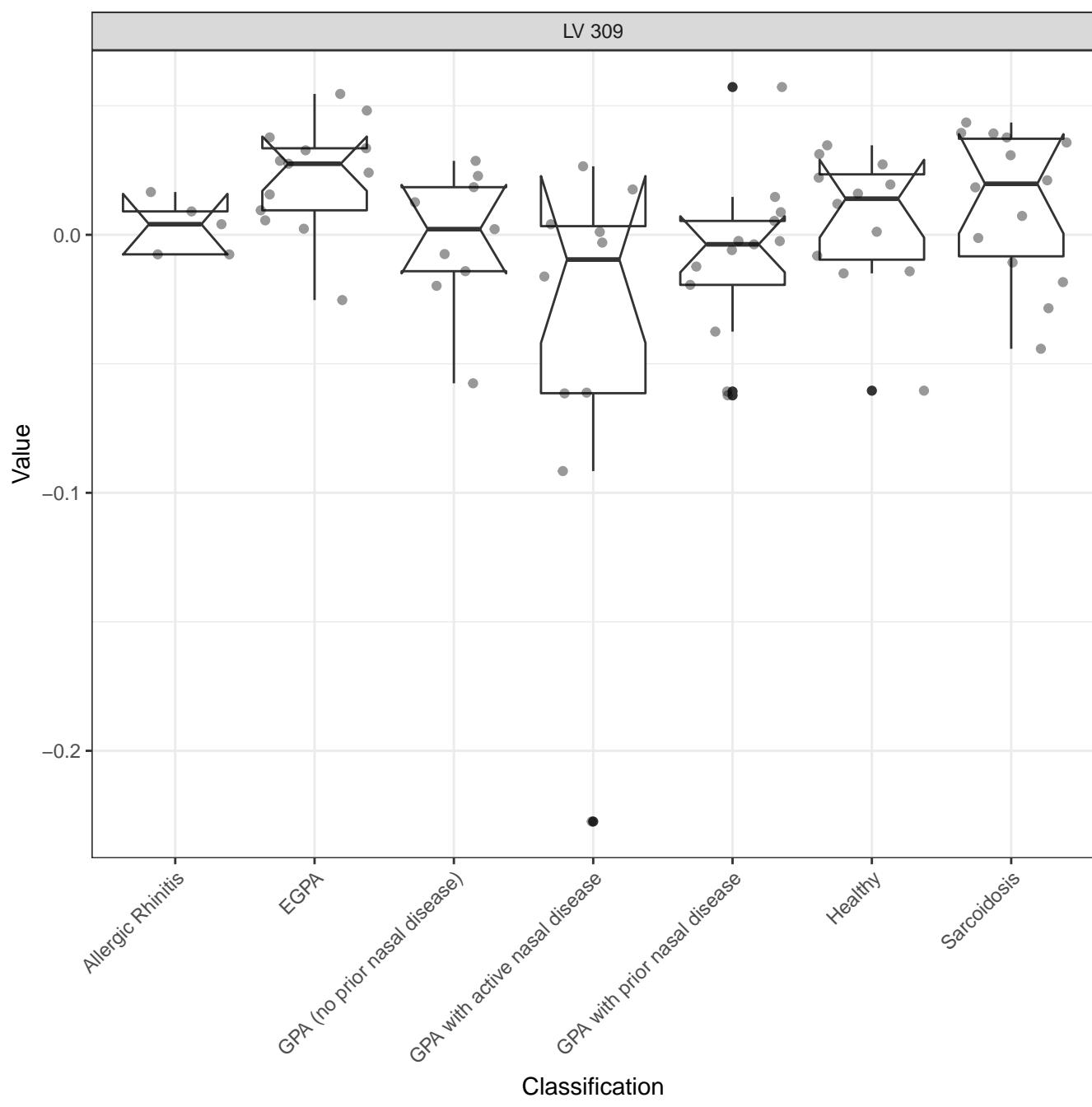
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

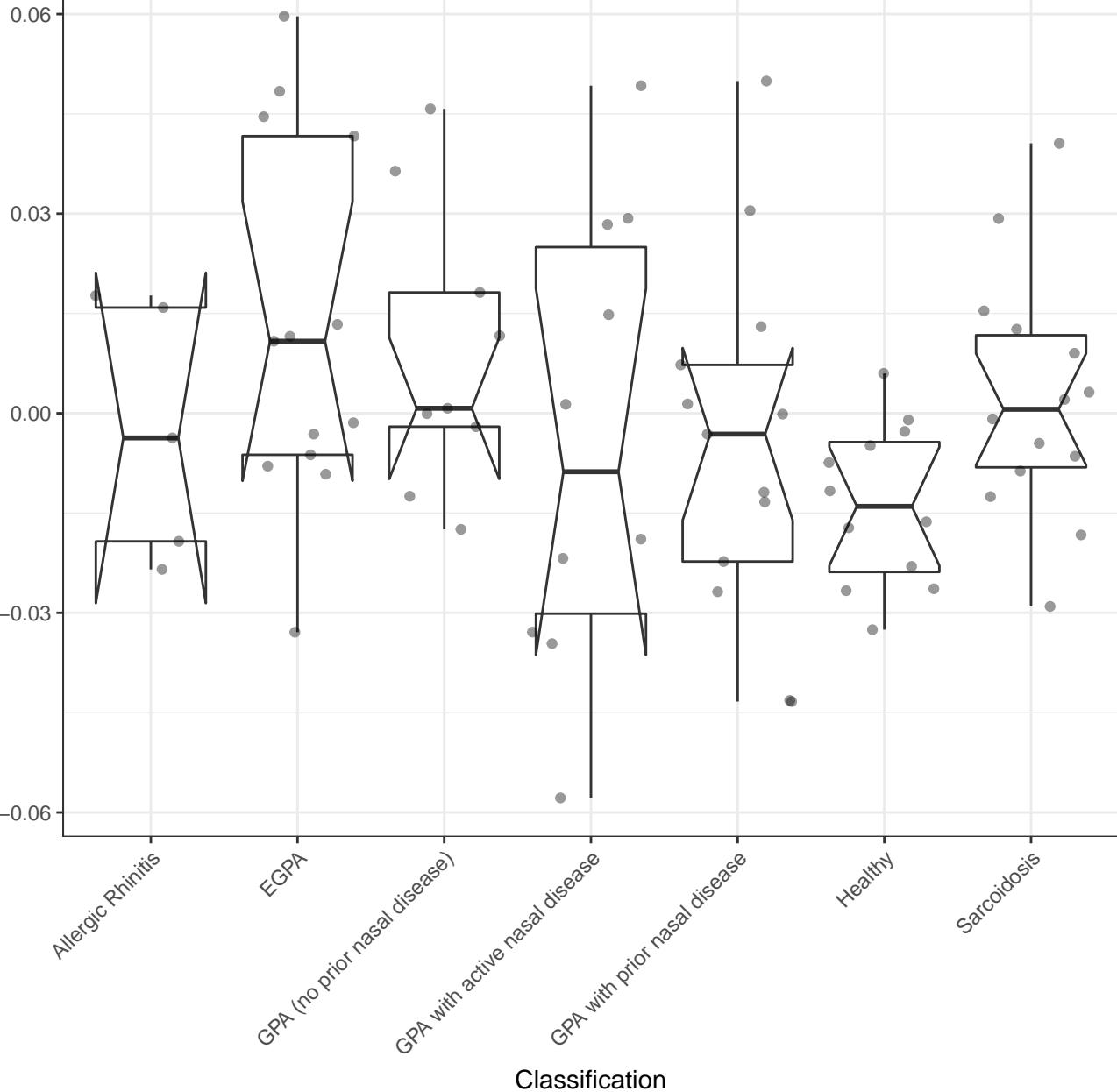
GPA with prior nasal disease

Healthy

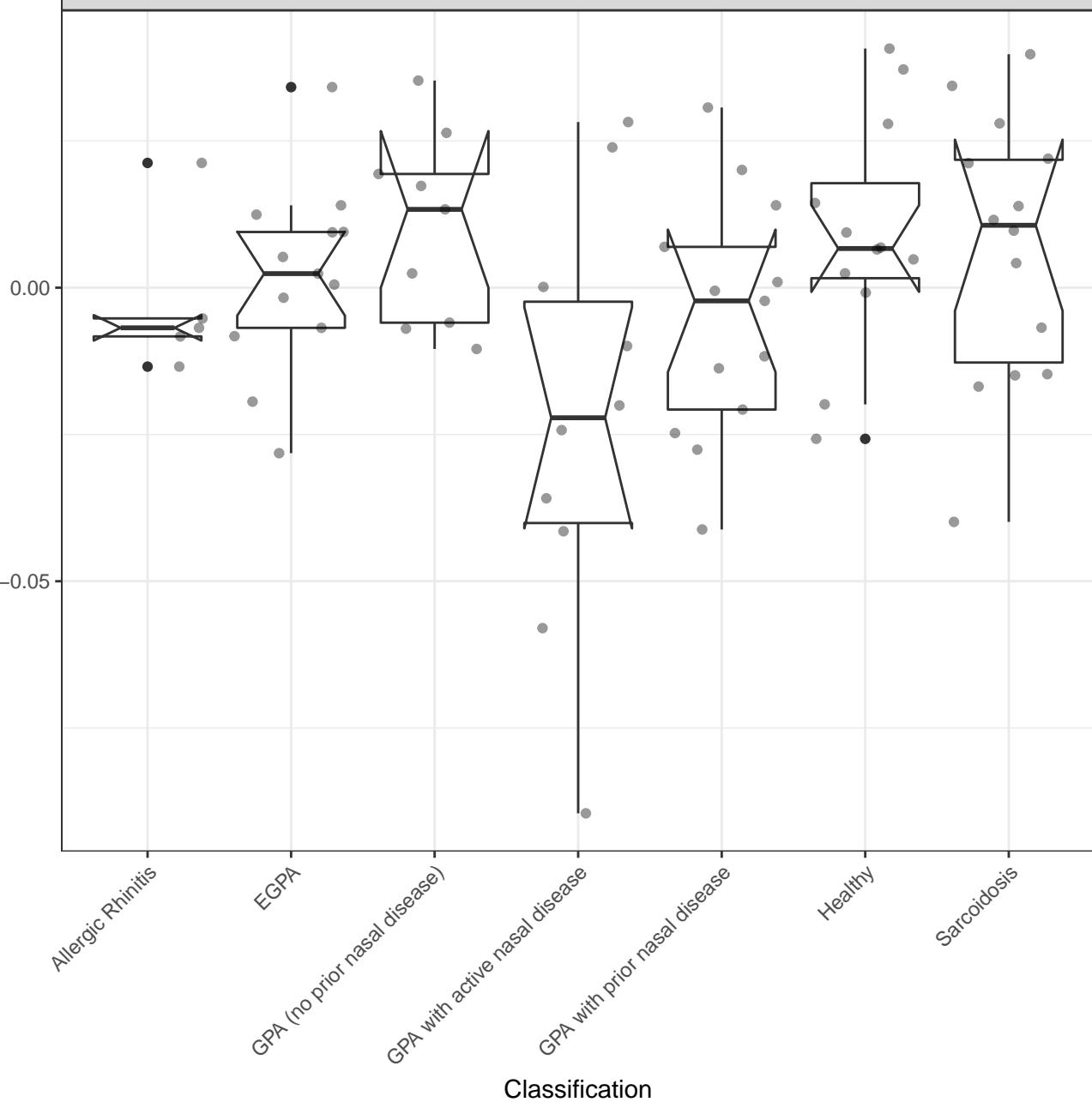
Sarcoidosis

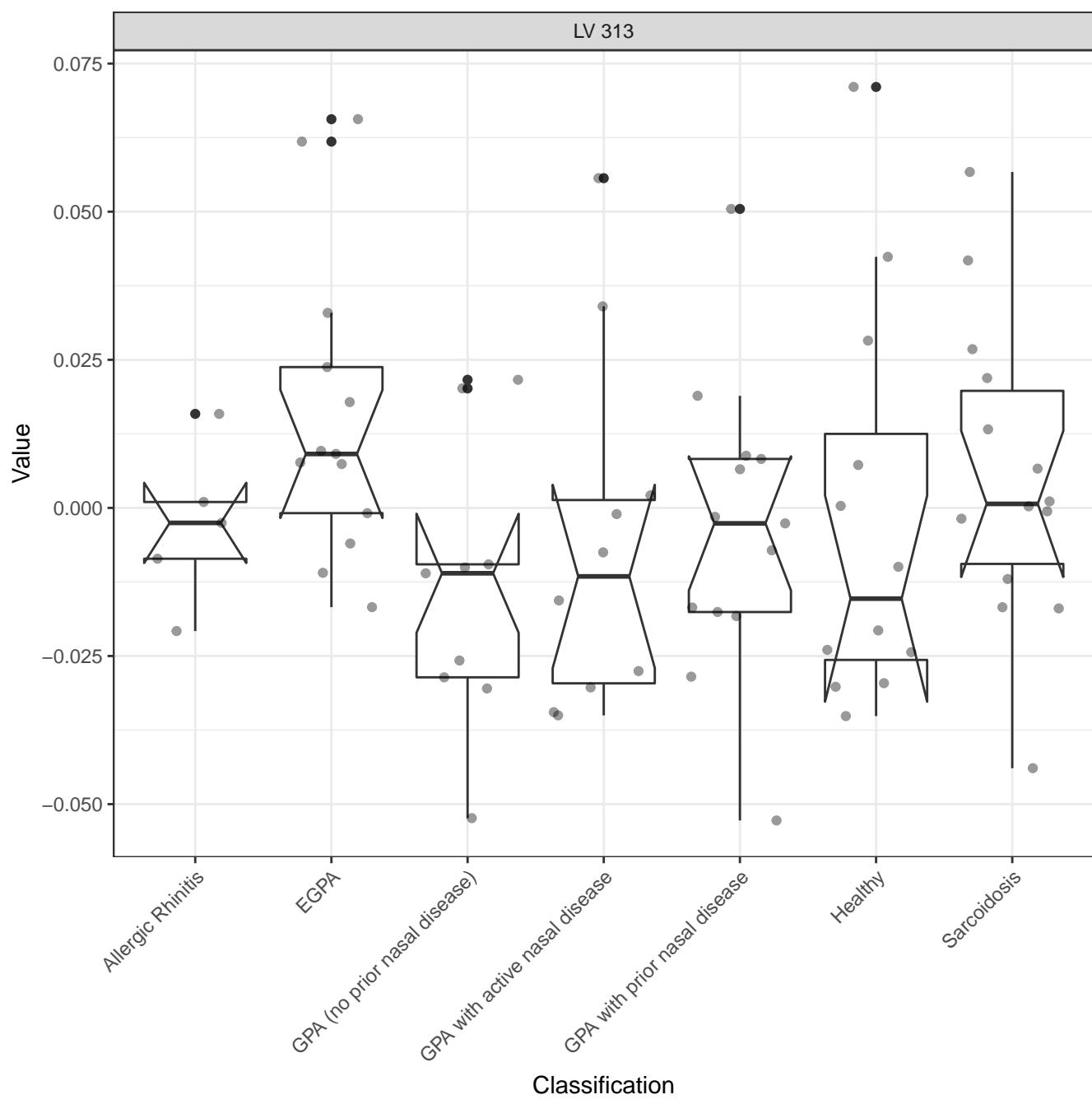
Classification

Value



Value





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

Allergic Rhinitis      EGPA      GPA (no prior nasal disease)      GPA with active nasal disease      GPA with prior nasal disease      Healthy      Sarcoidosis

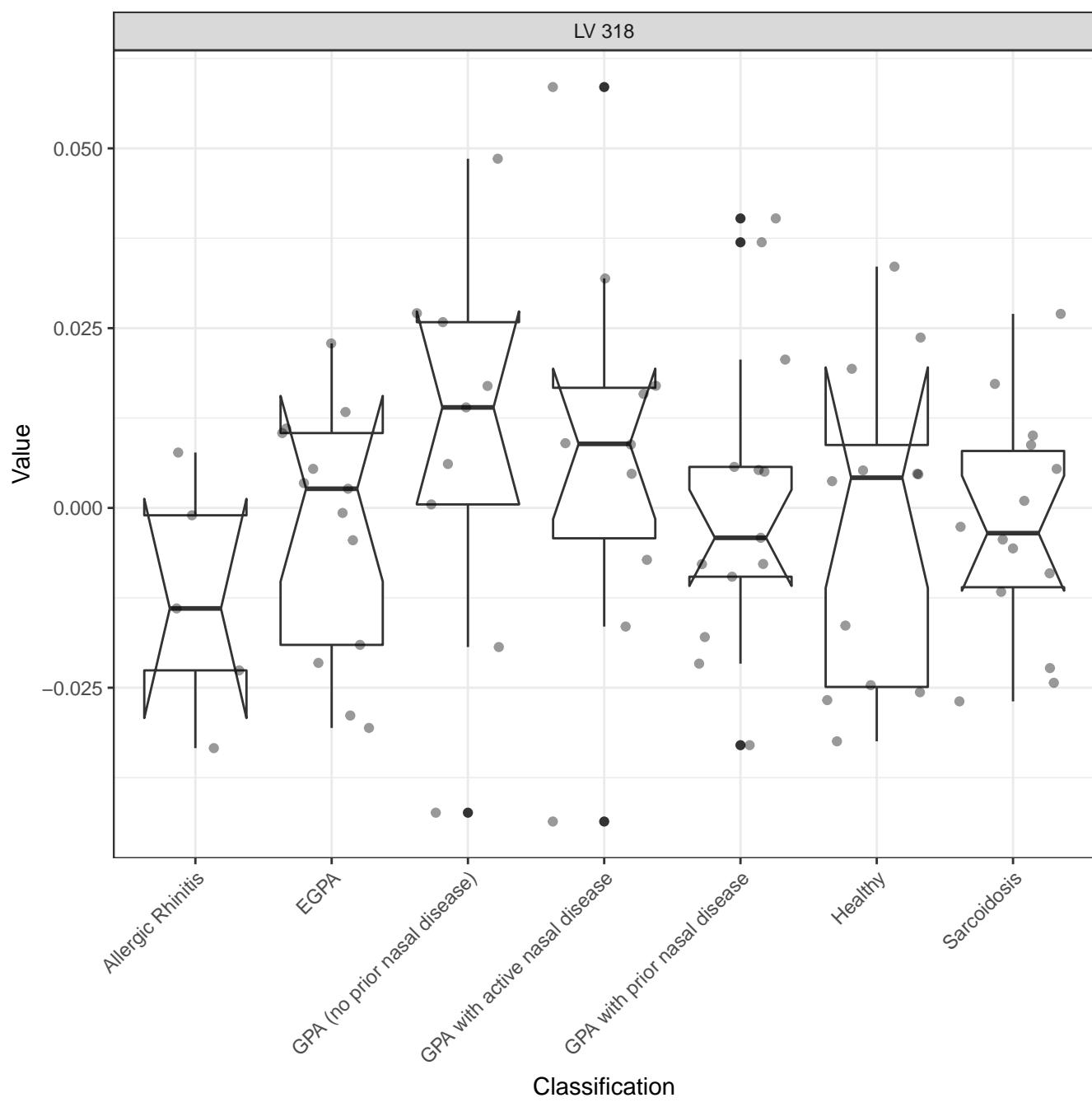
Classification

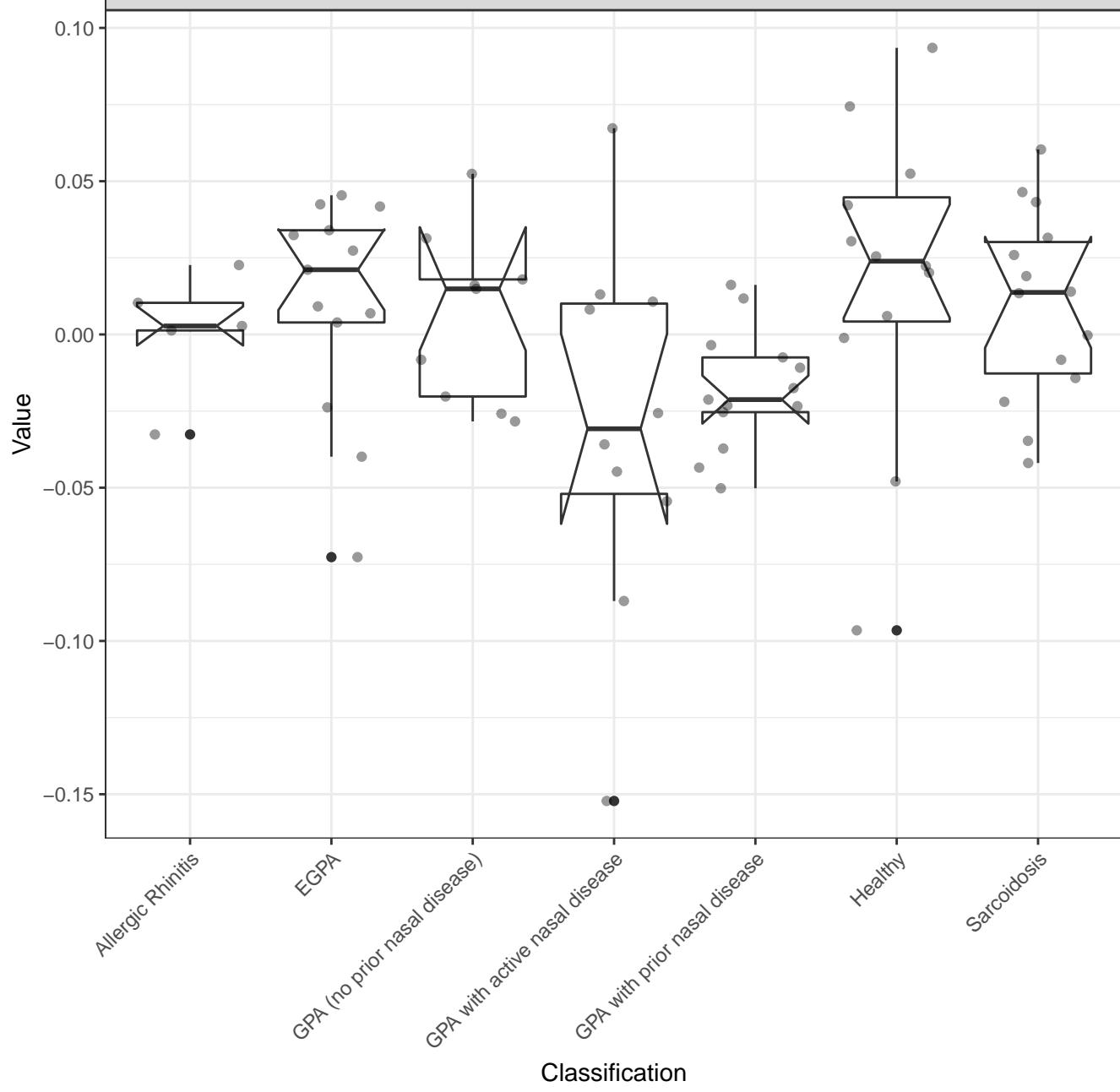
0.04

0.00

-0.04

-0.08





Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

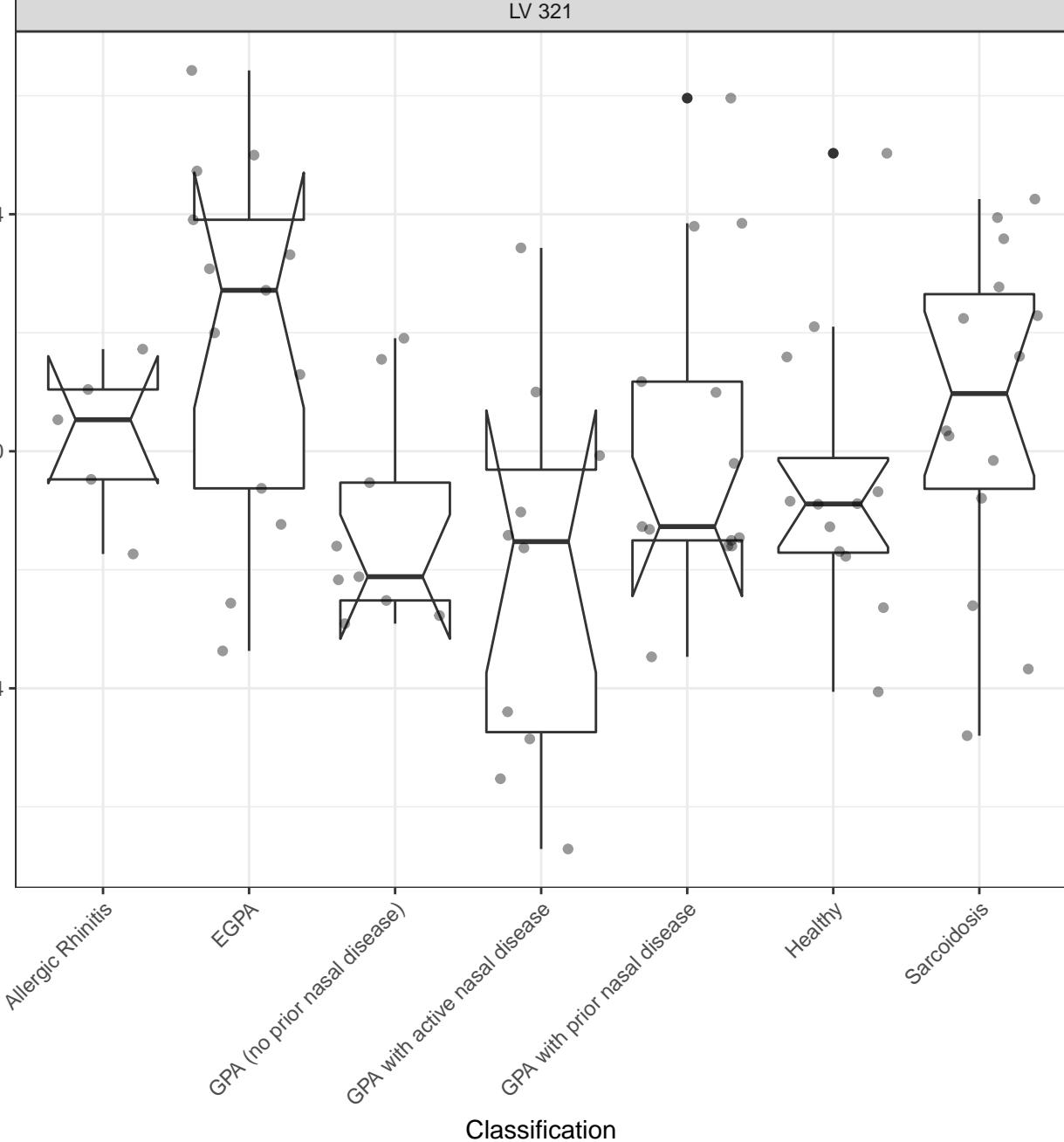
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.04  
0.02  
0.00  
-0.02  
-0.04  
-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

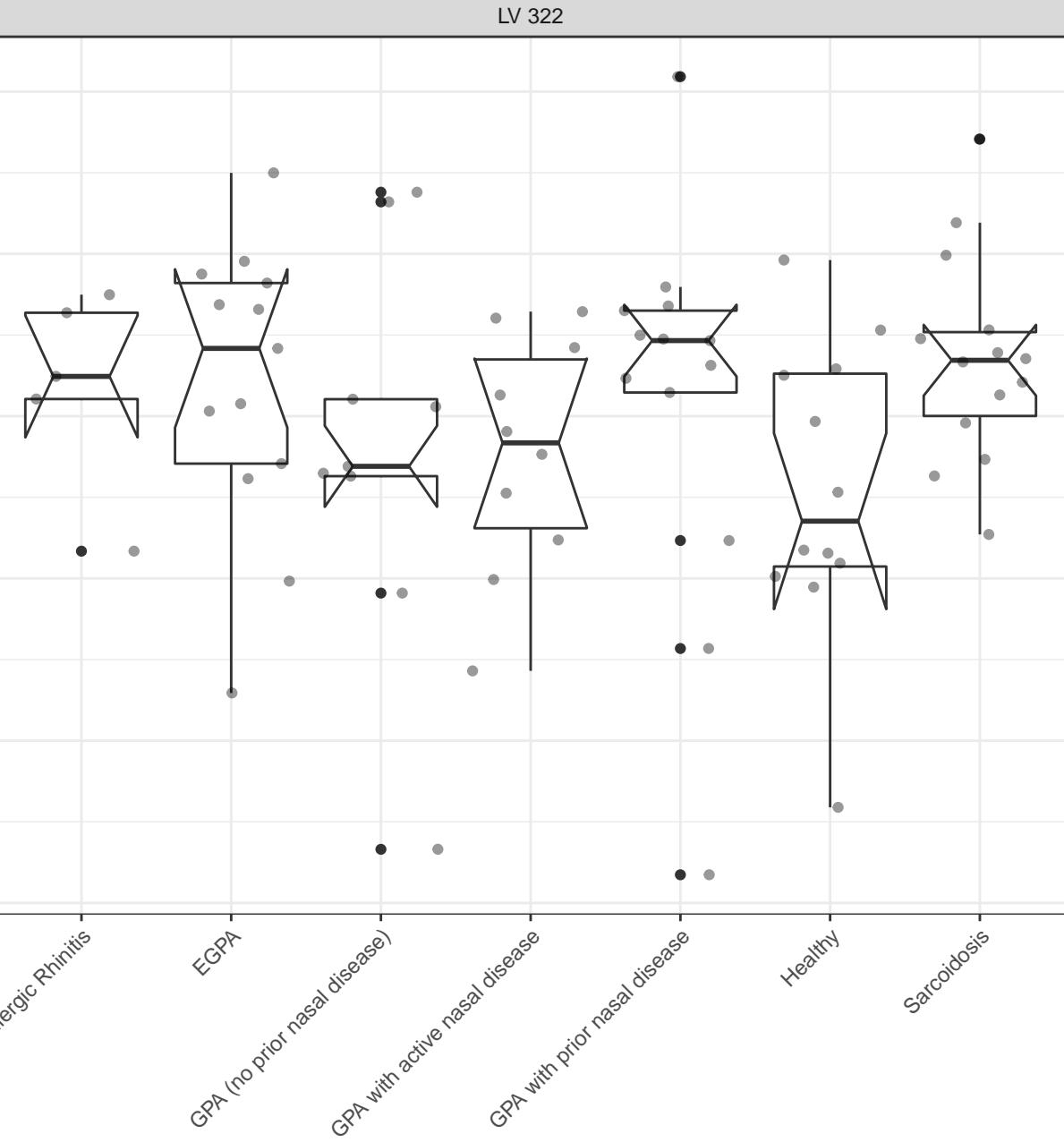
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

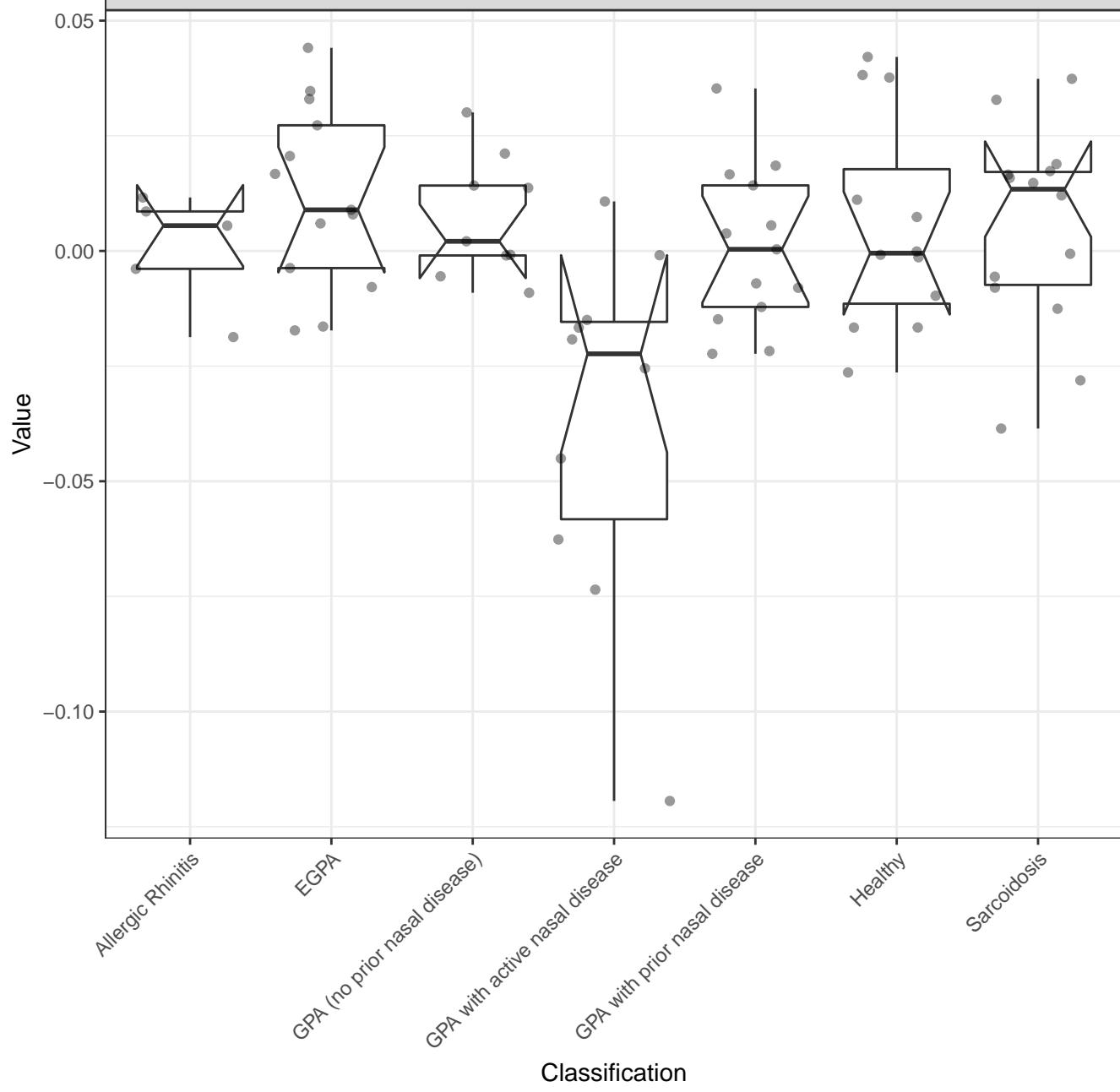
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 325



Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

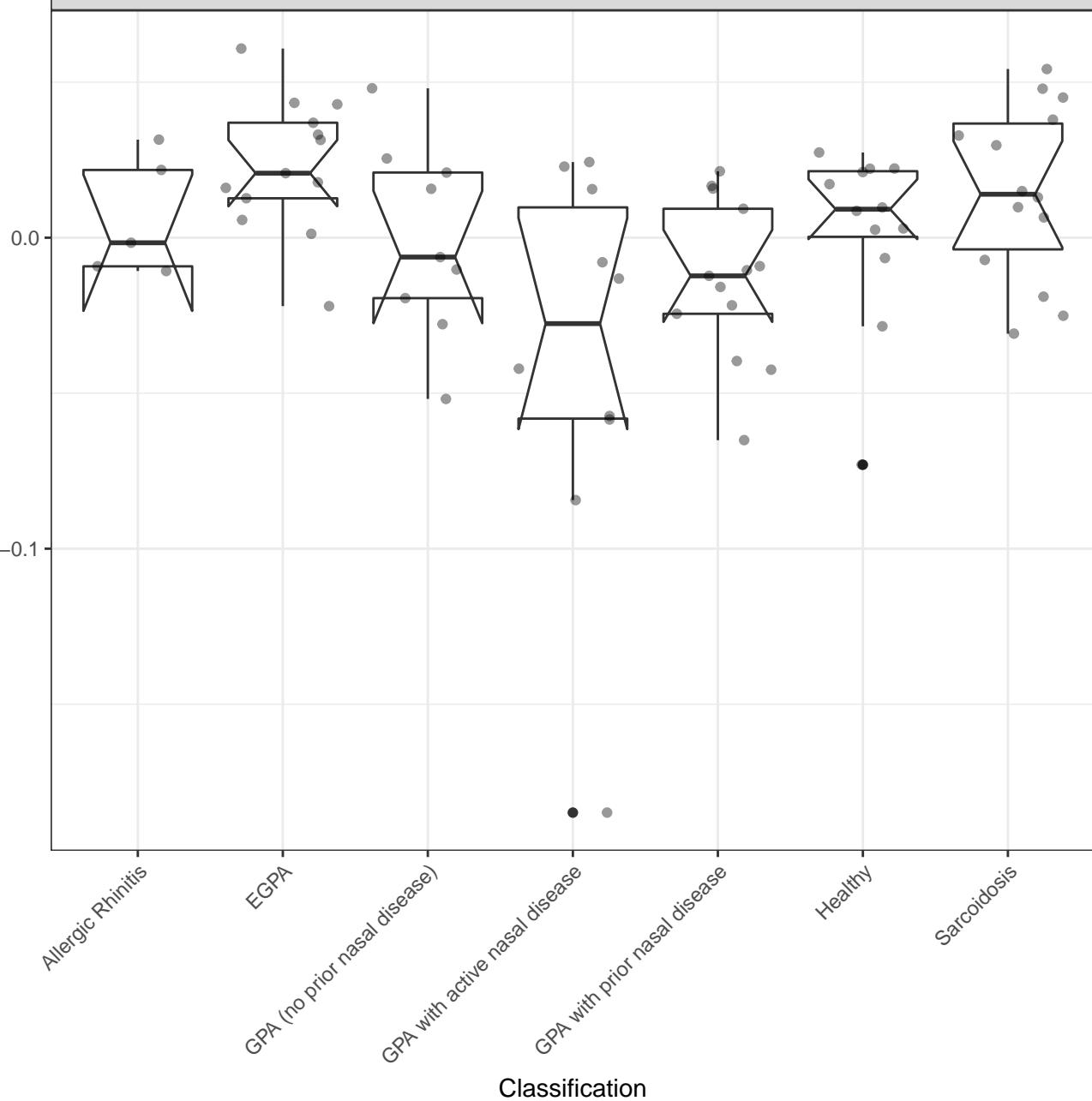
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

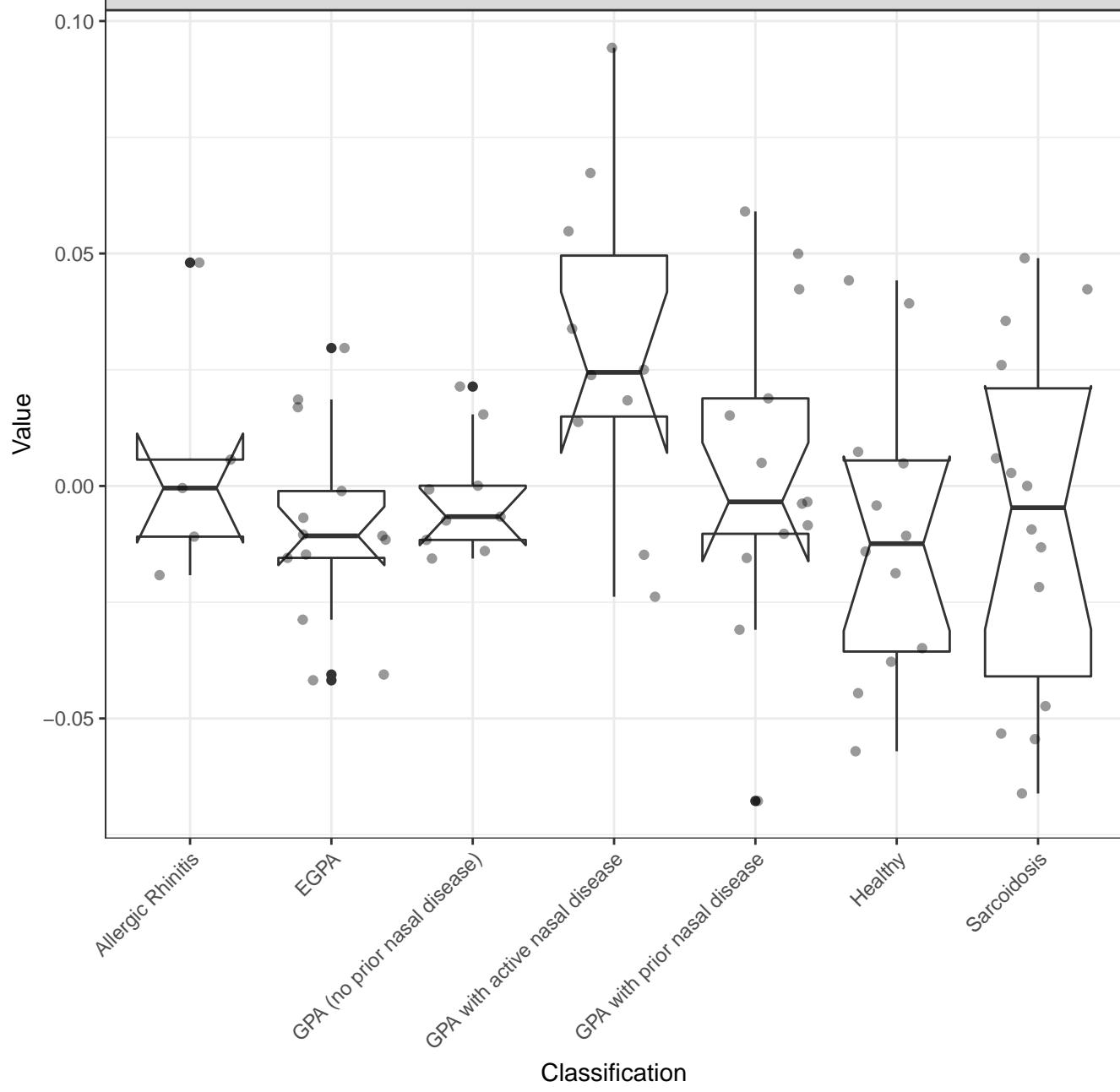
GPA with prior nasal disease

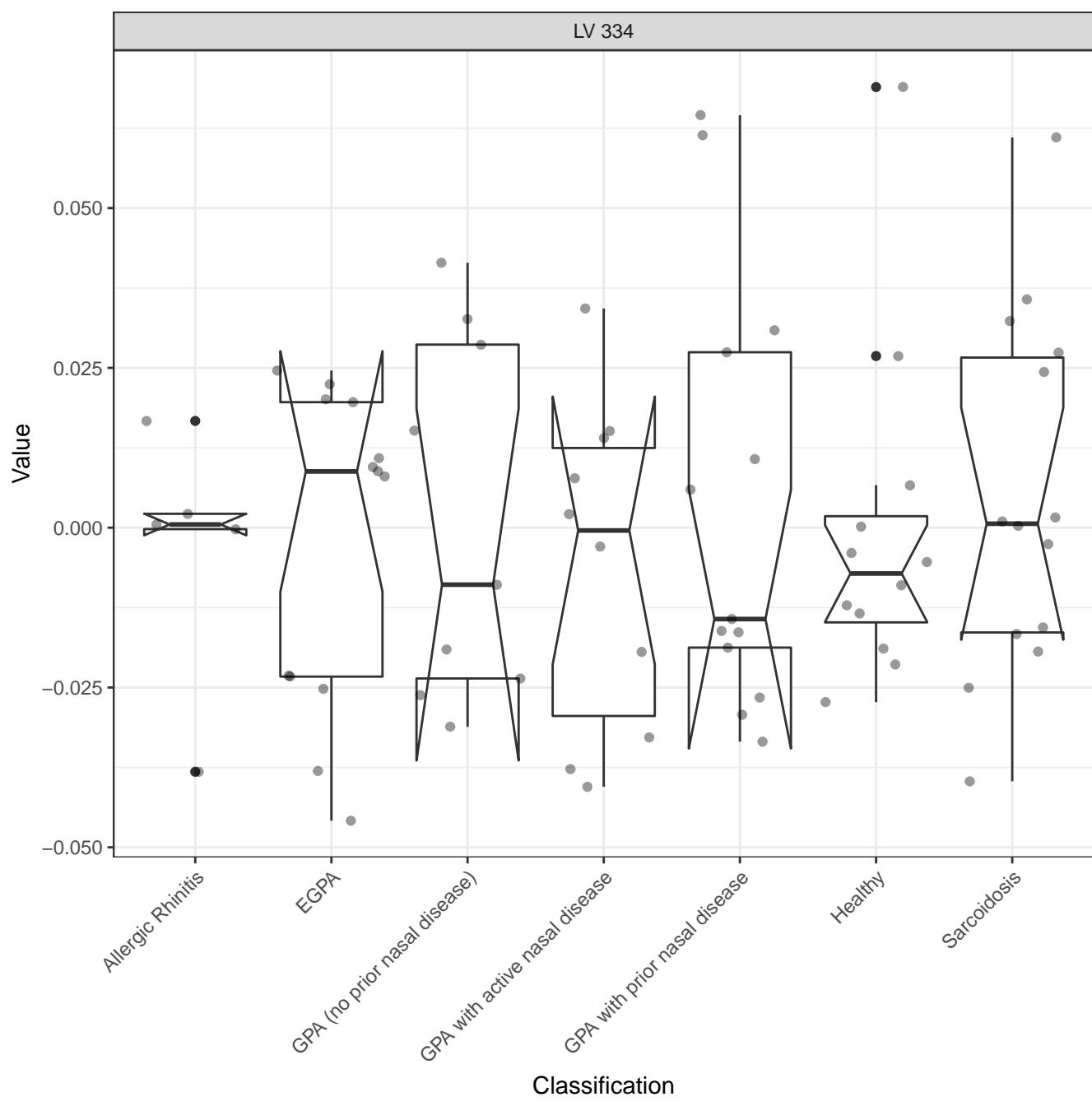
Healthy

Sarcoidosis

Classification

LV 333





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

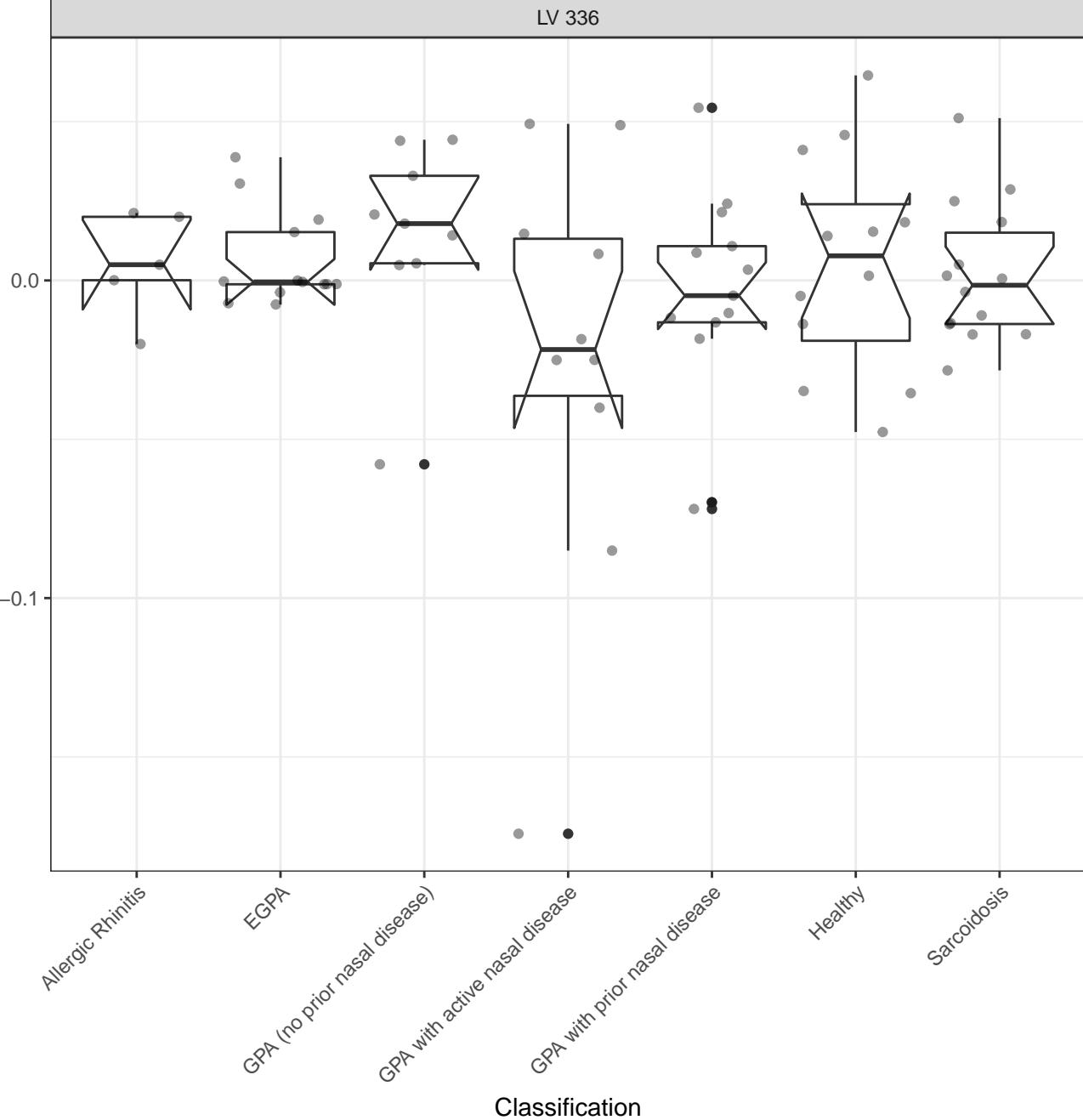
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



LV 337

Value

0.05

0.01

-0.05

-0.10

-0.15

-0.20

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

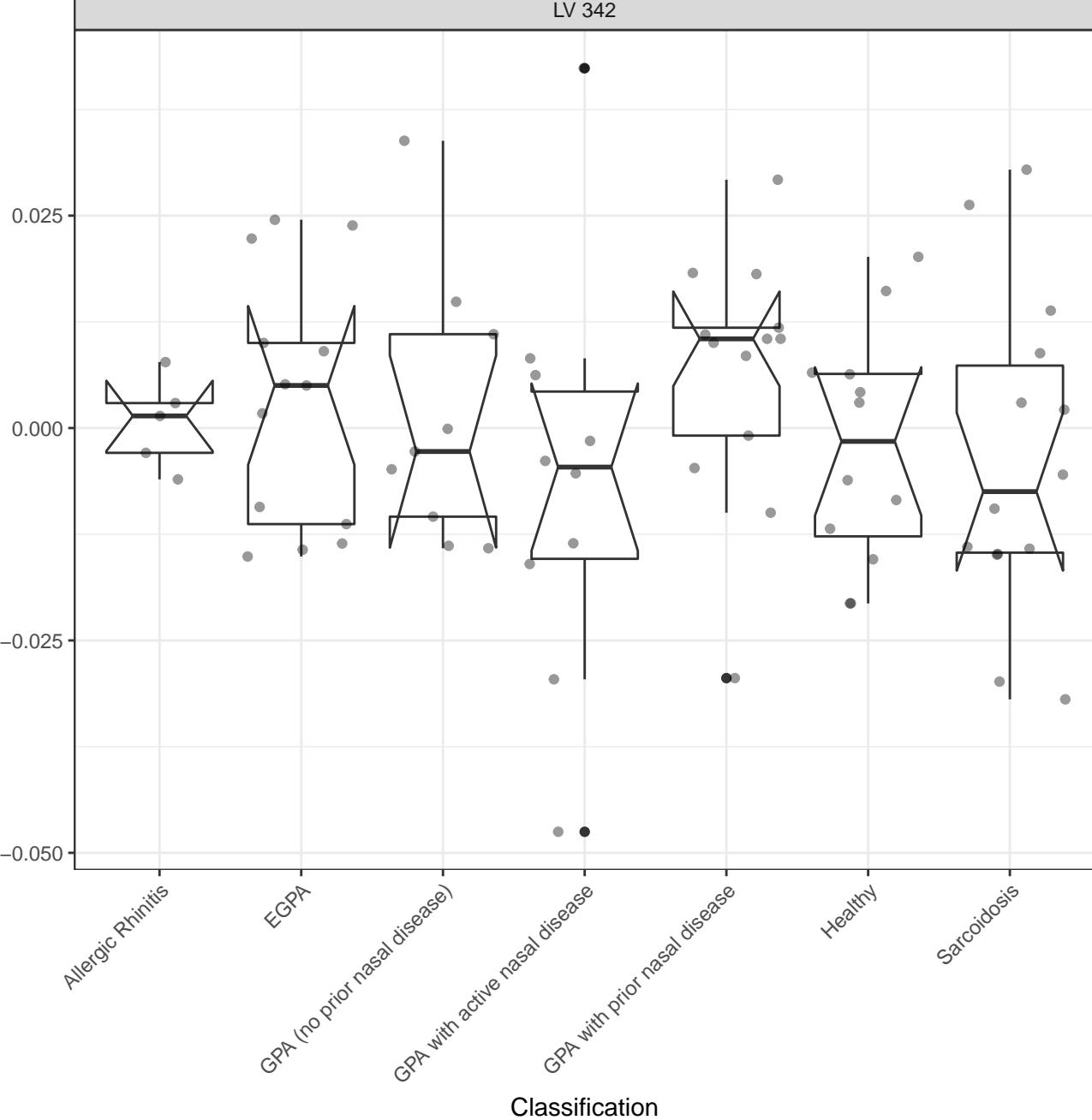
GPA with prior nasal disease

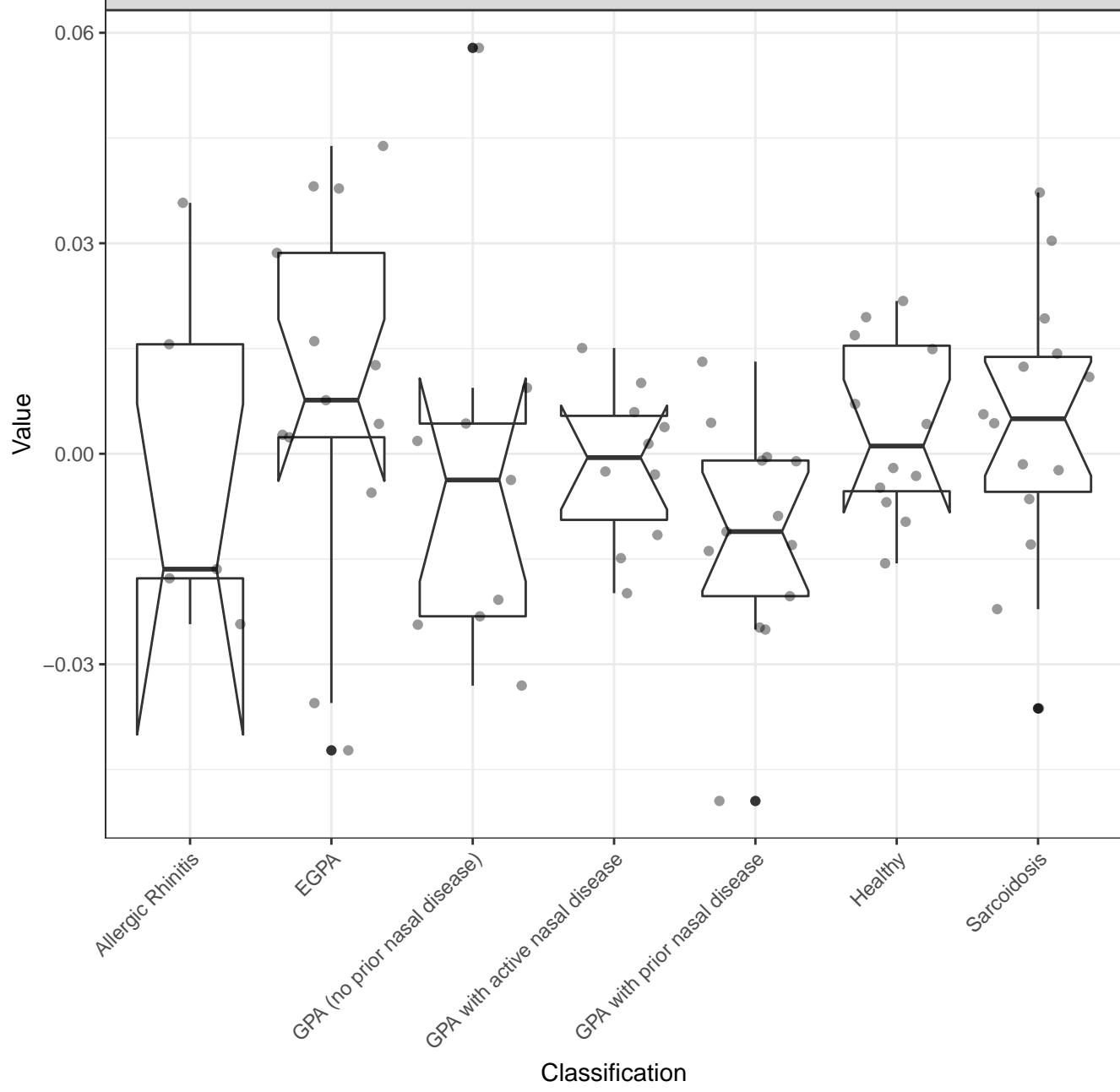
Healthy

Sarcoidosis

Classification

Value





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

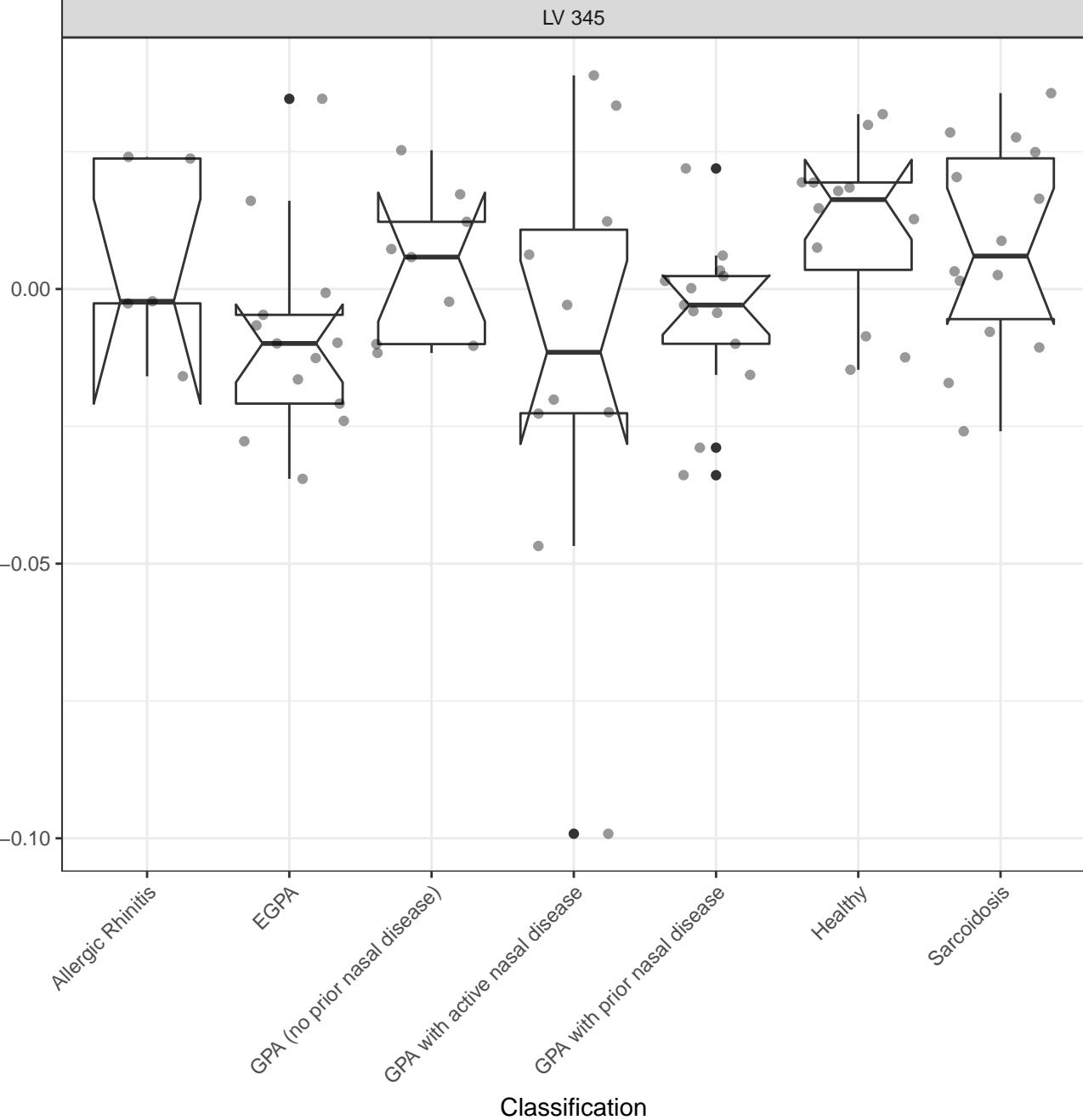
GPA with prior nasal disease

Healthy

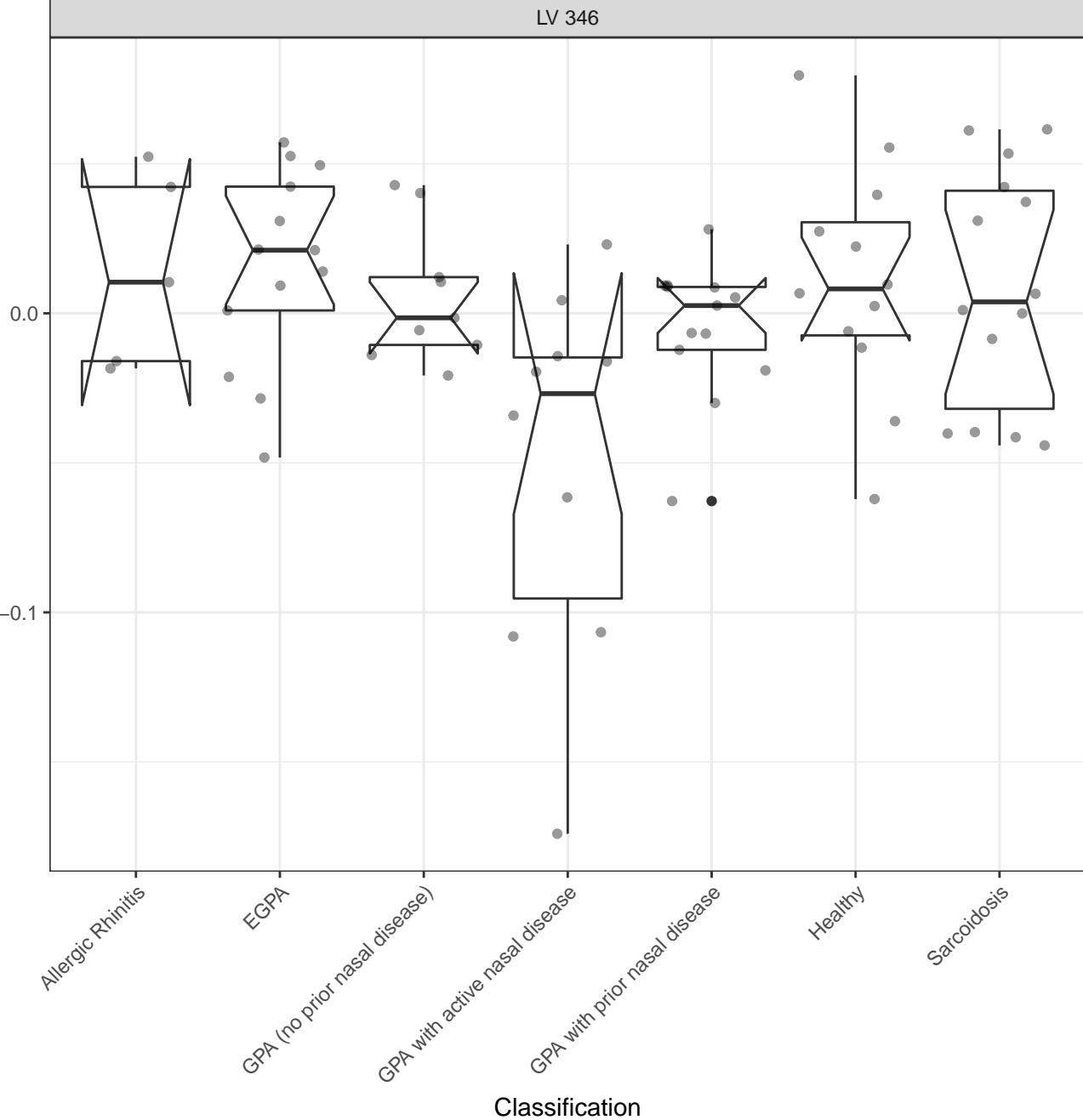
Sarcoidosis

Classification

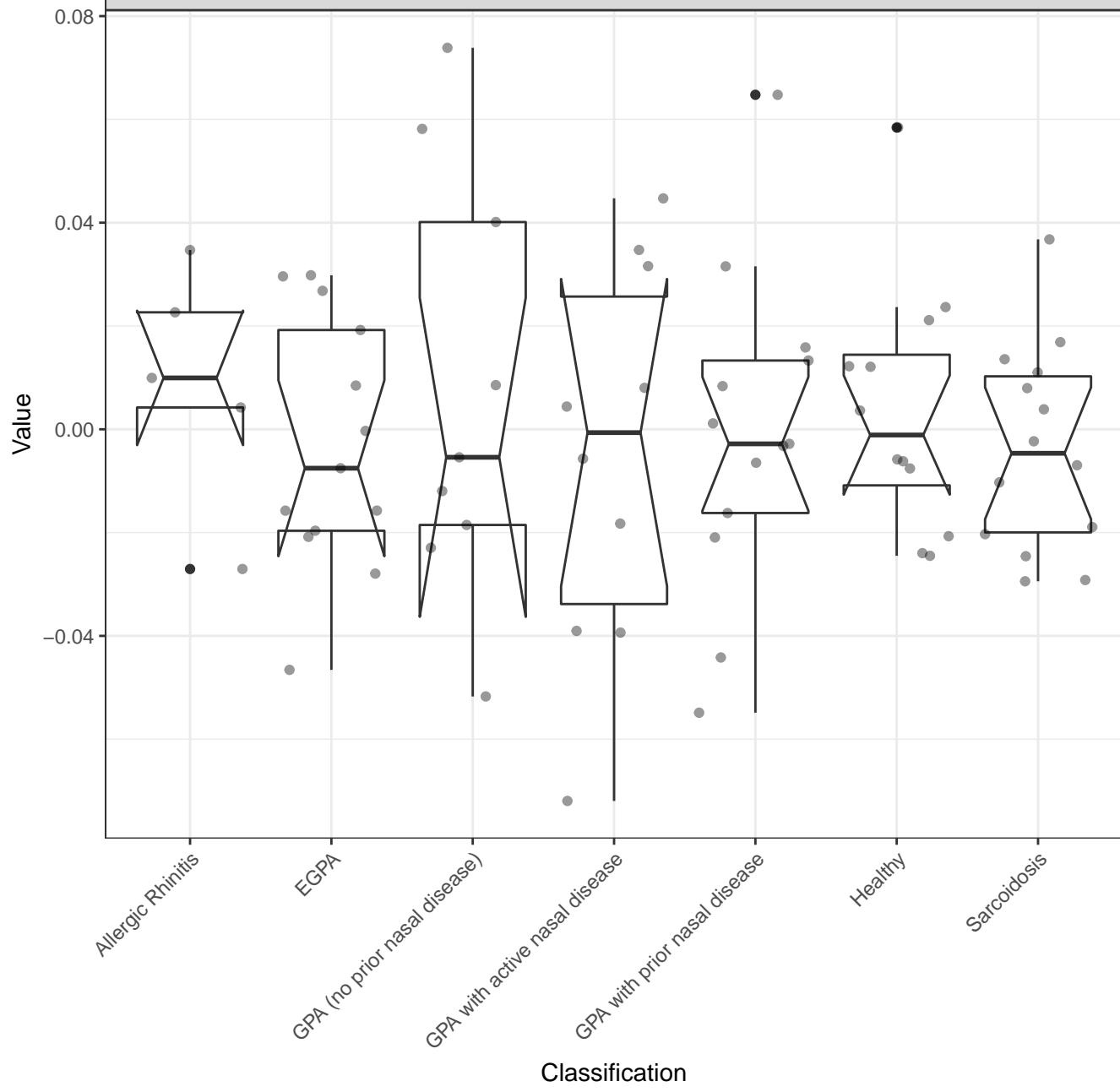
Value

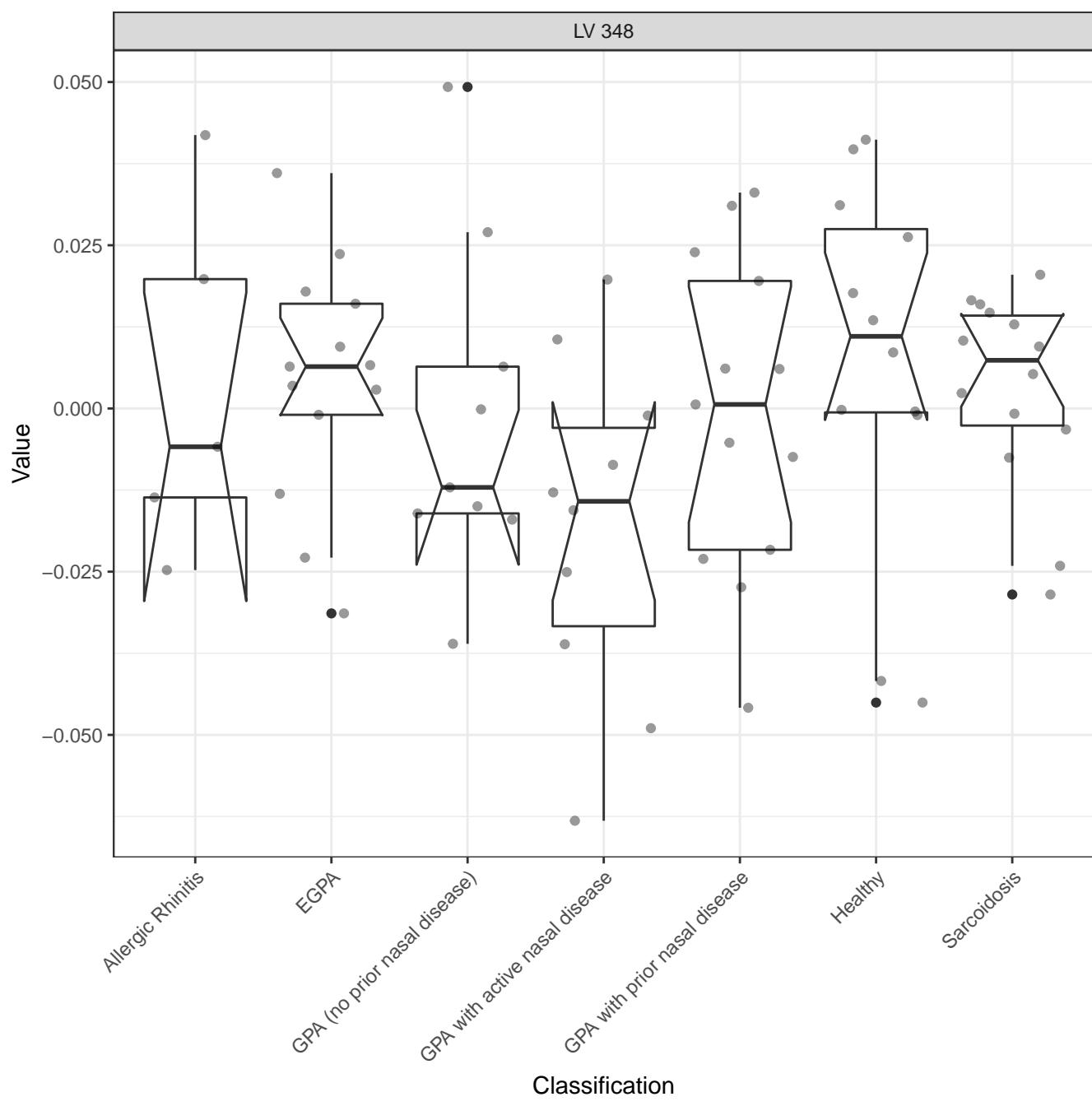


Value



LV 347





Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 356,REACTOME\_TRANSSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTrIMER

Value

0.025

0.000

-0.025

-0.050

-0.075

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

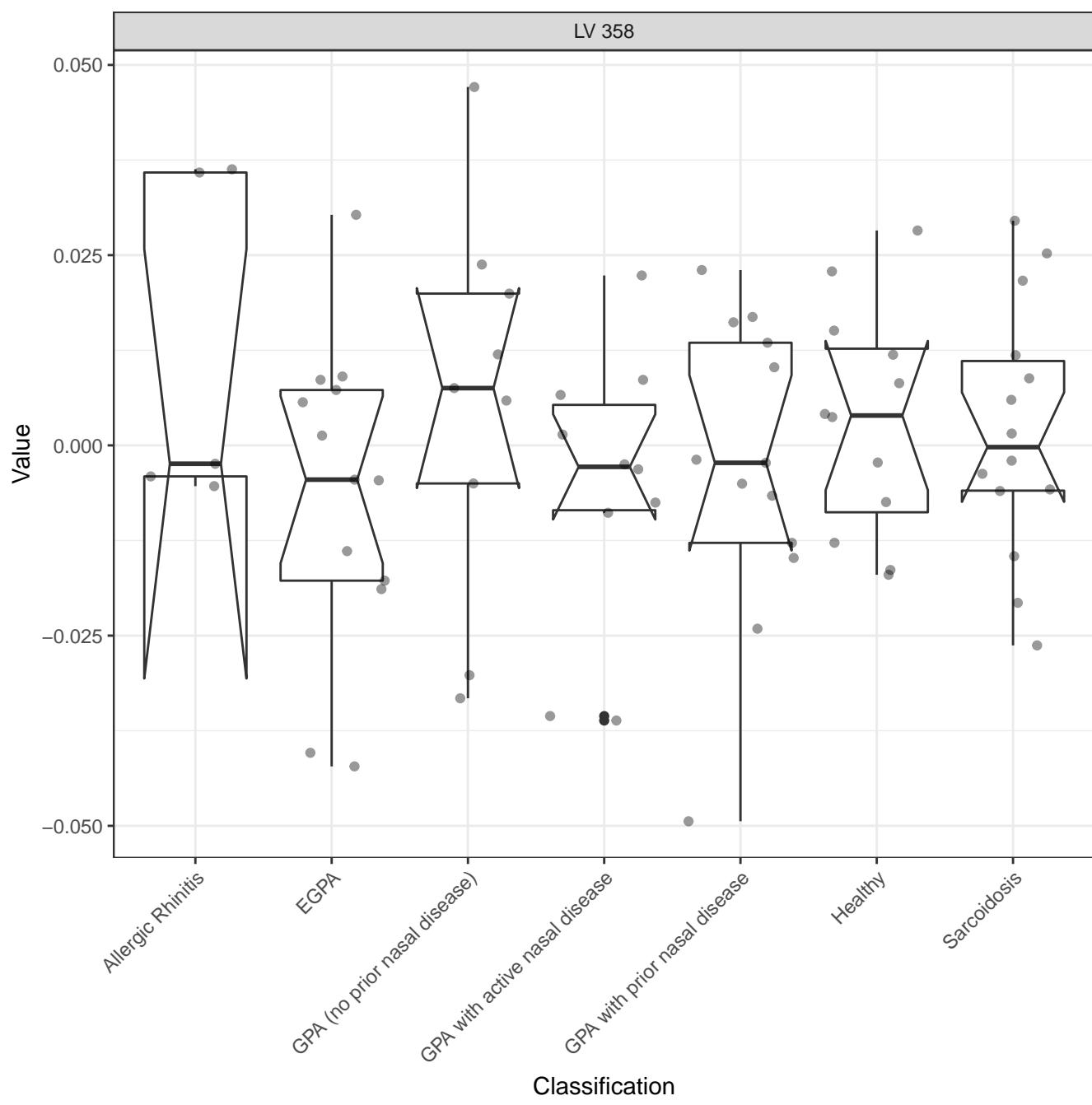
GPA with active nasal disease

GPA with prior nasal disease

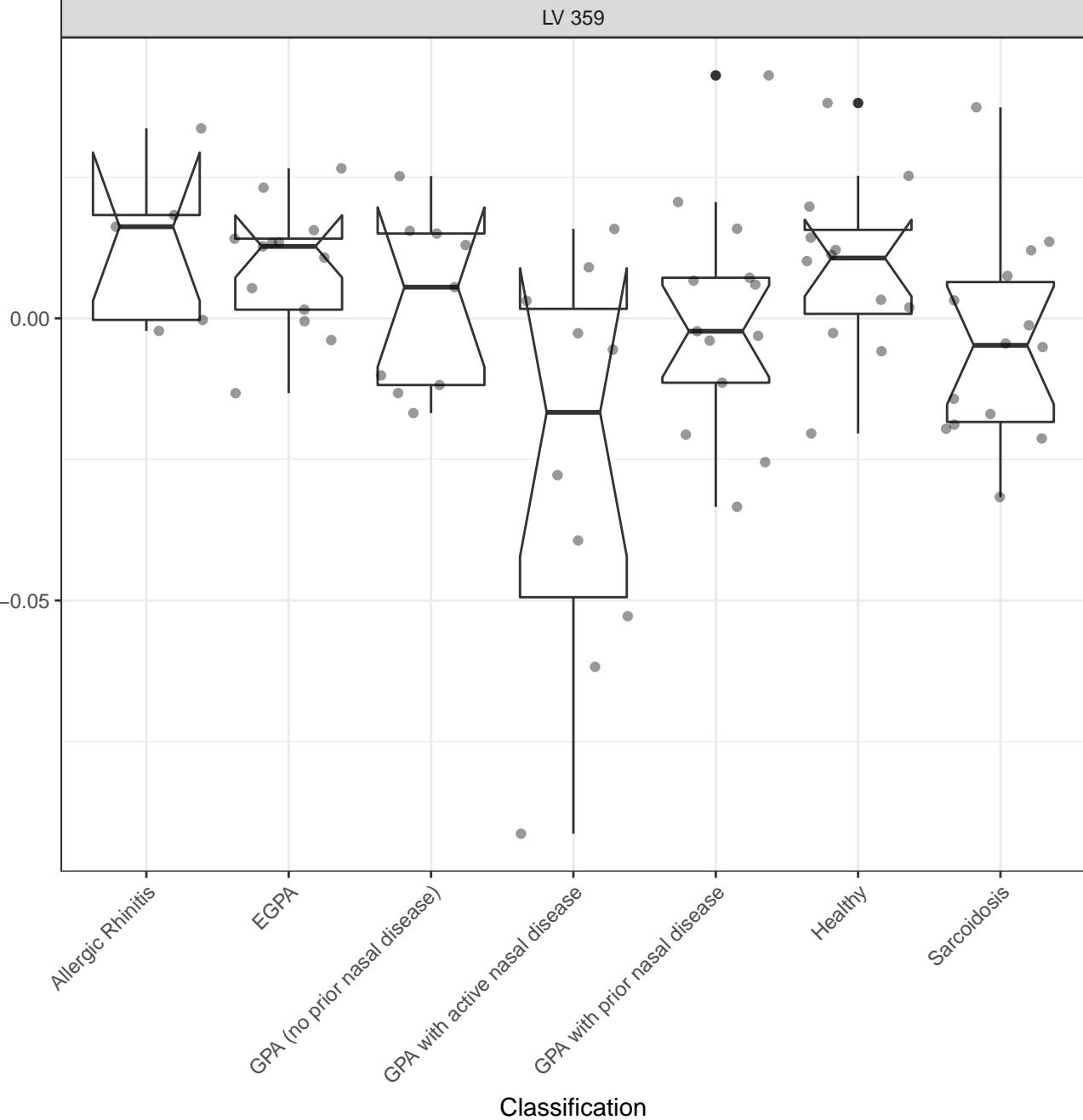
Healthy

Sarcoidosis

Classification



Value



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

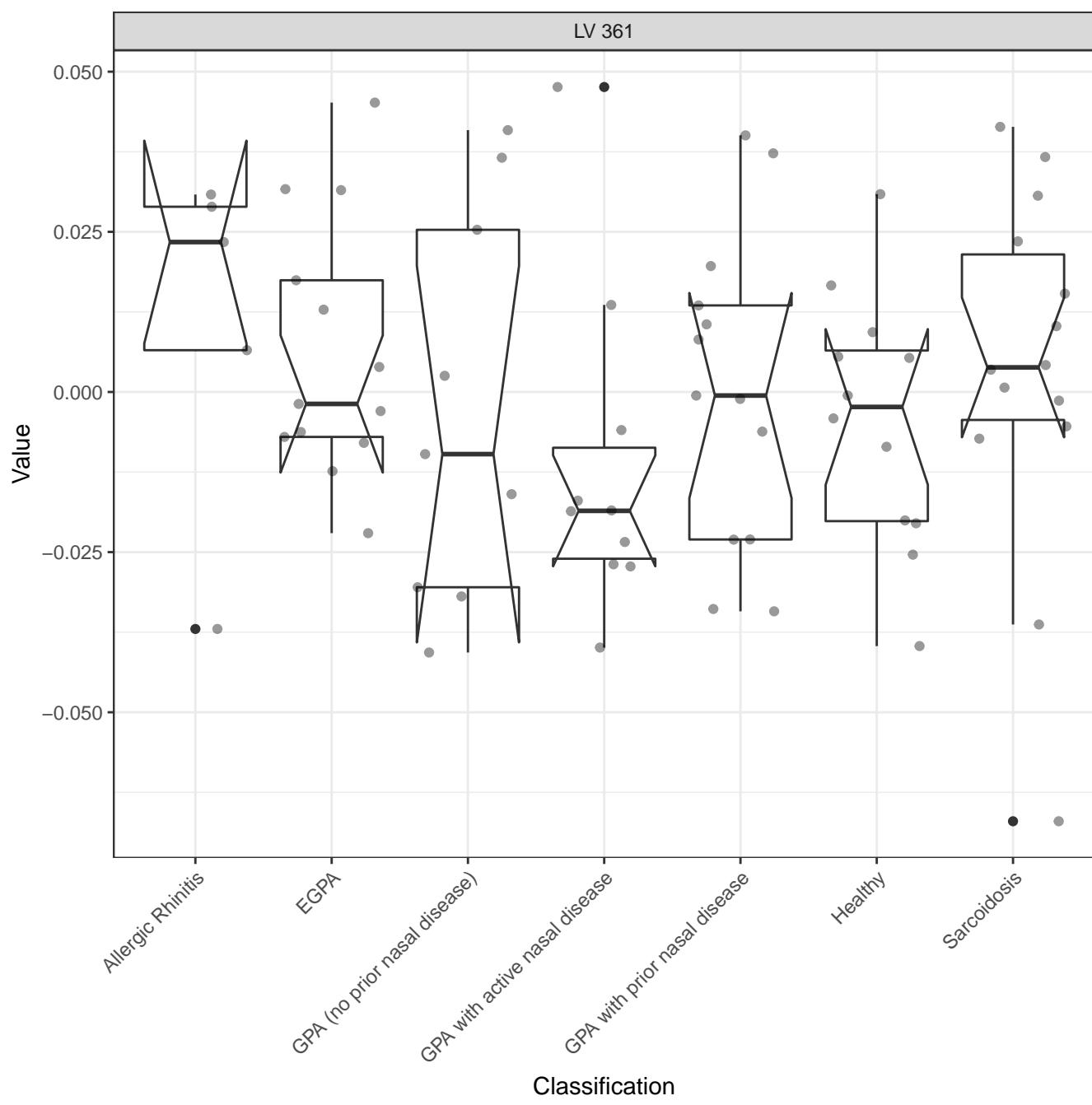
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

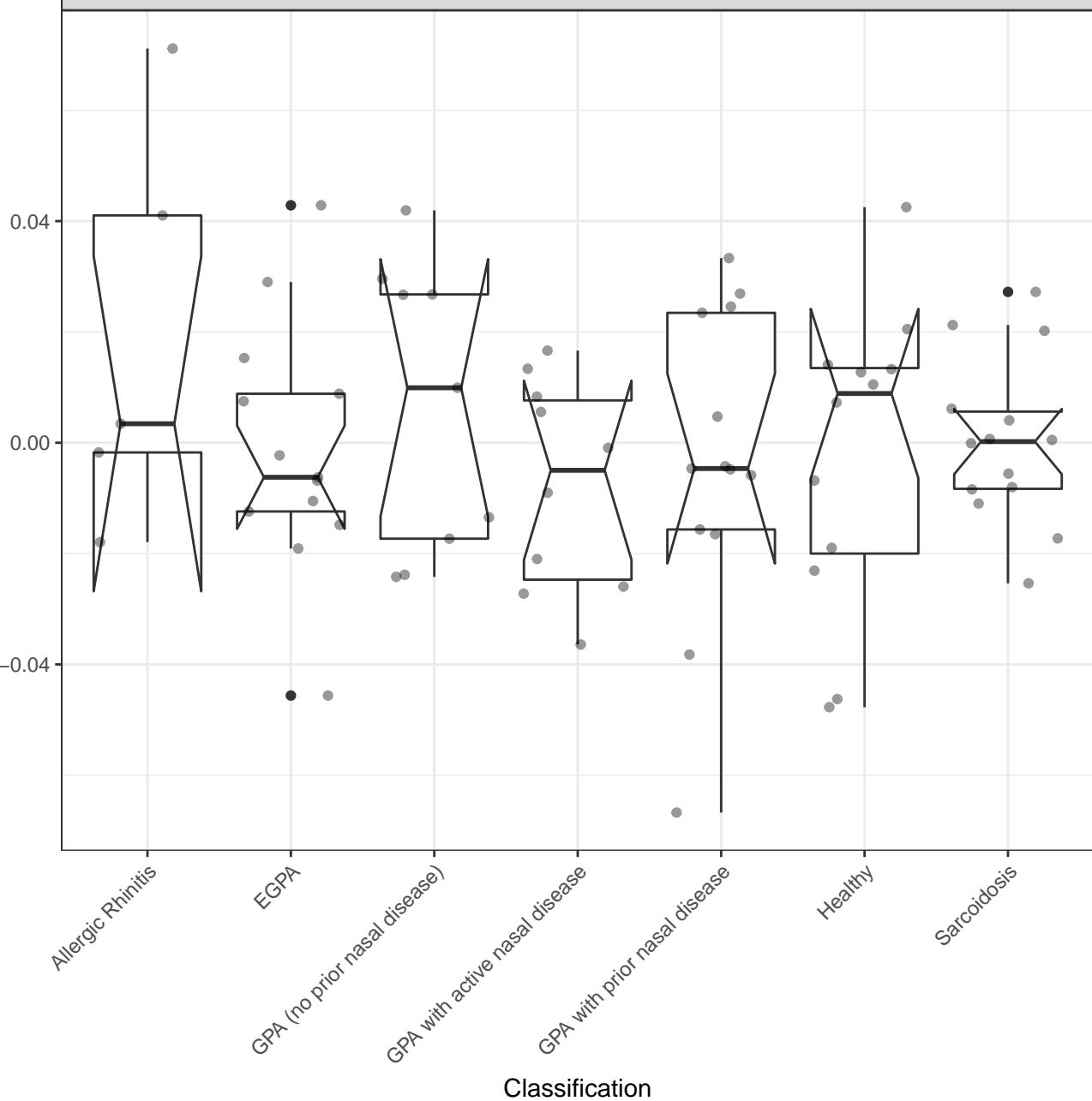
GPA with prior nasal disease

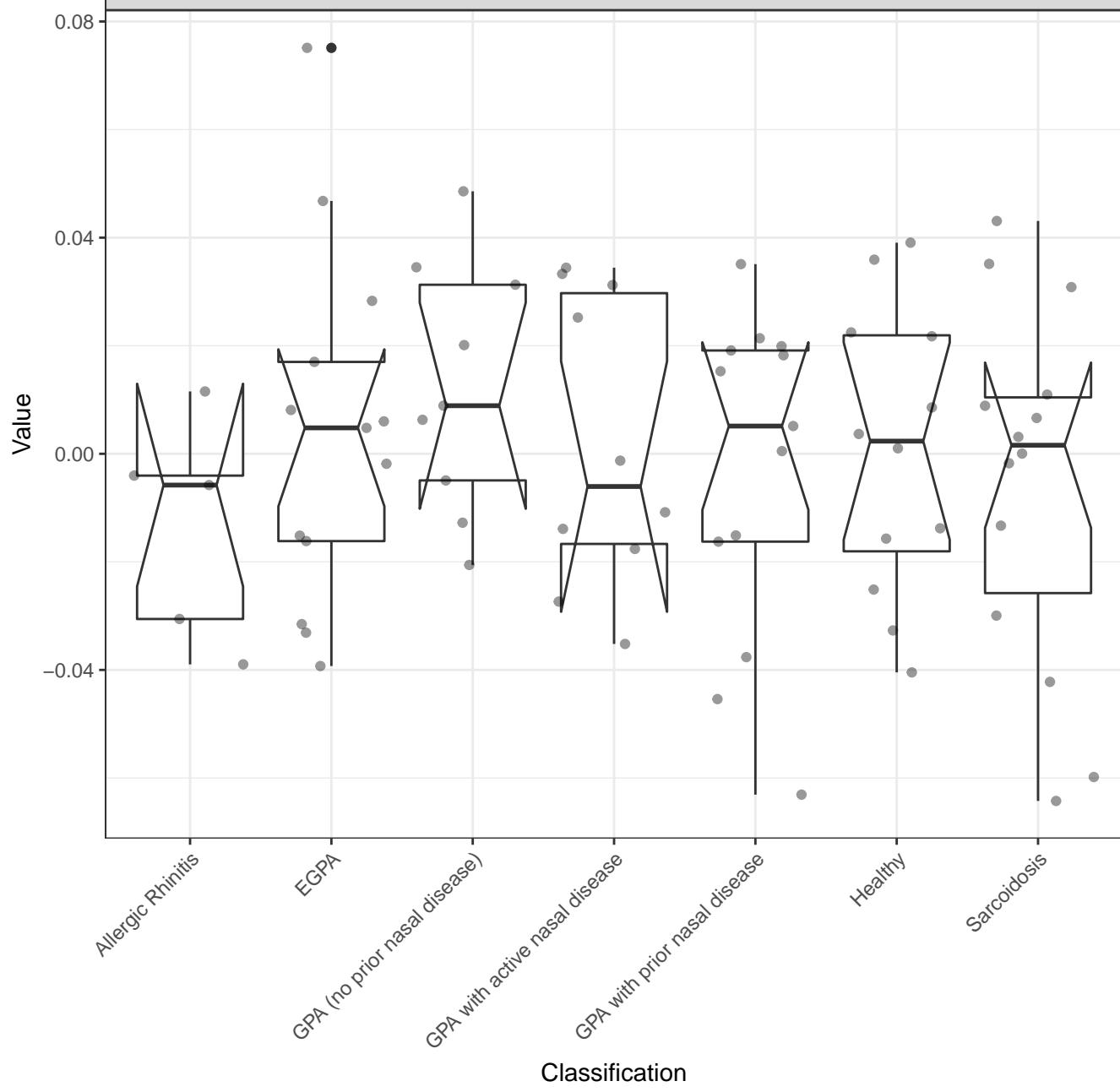
Healthy

Sarcoidosis

Classification

Value





Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

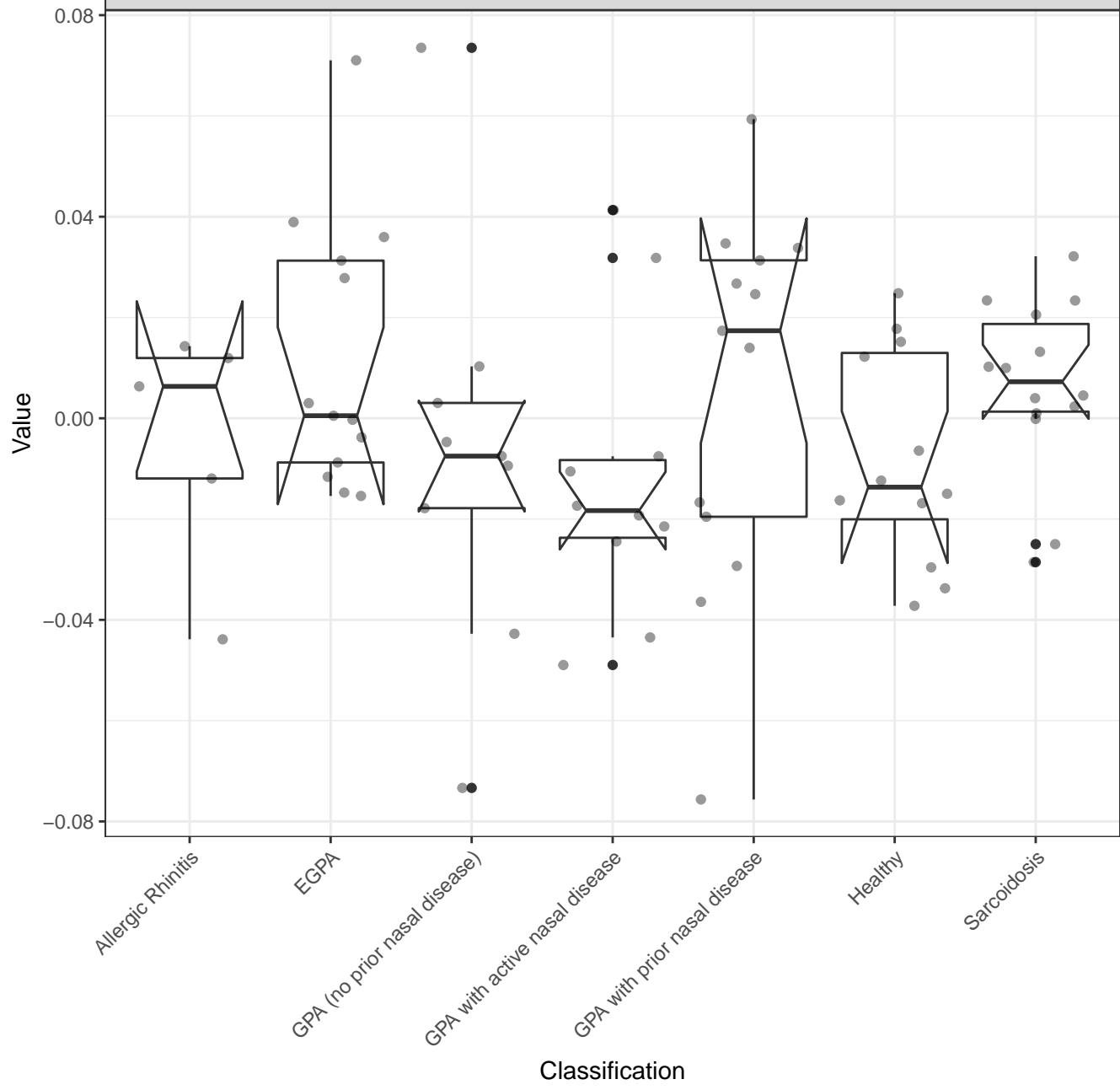
GPA with active nasal disease

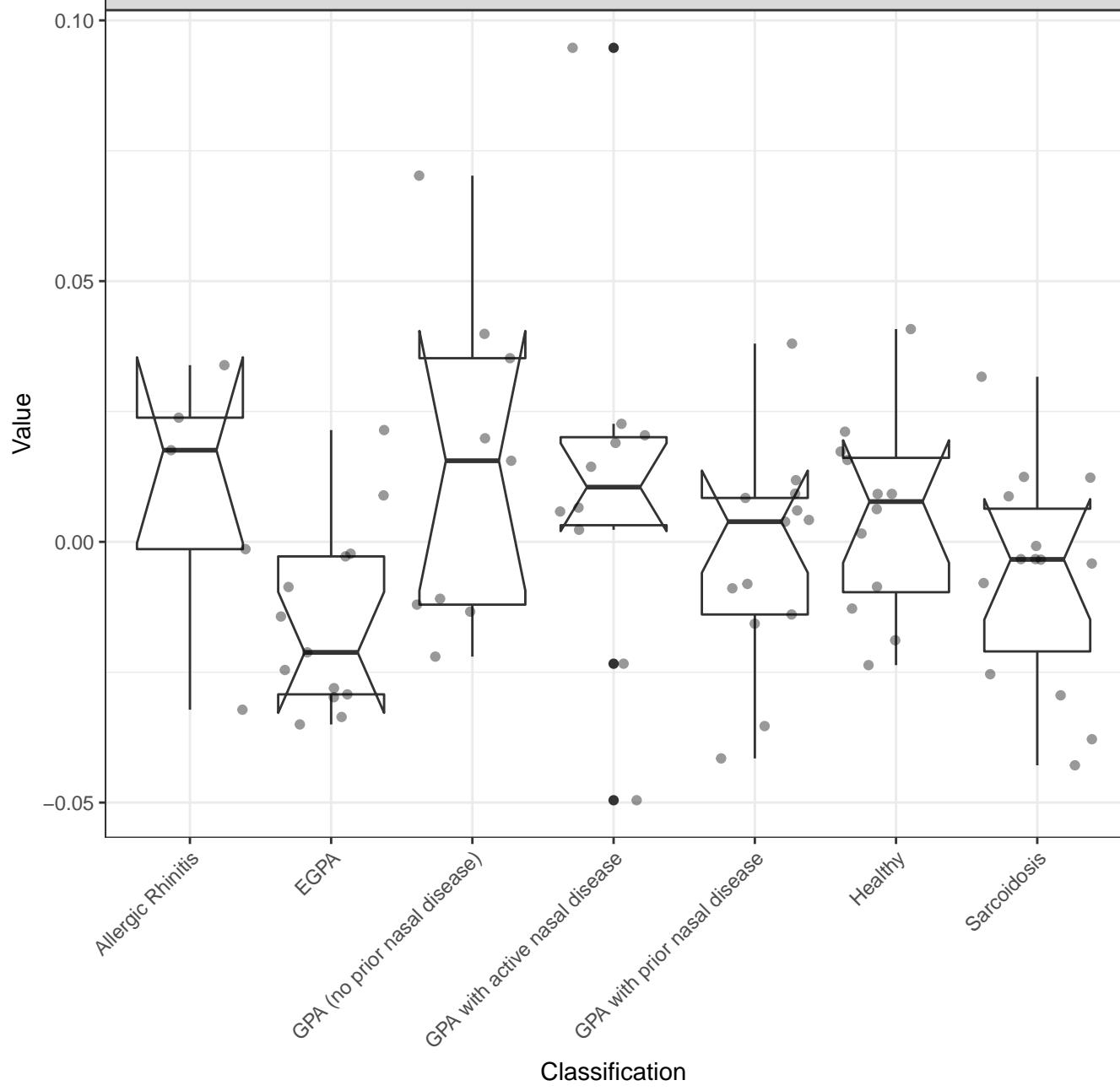
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

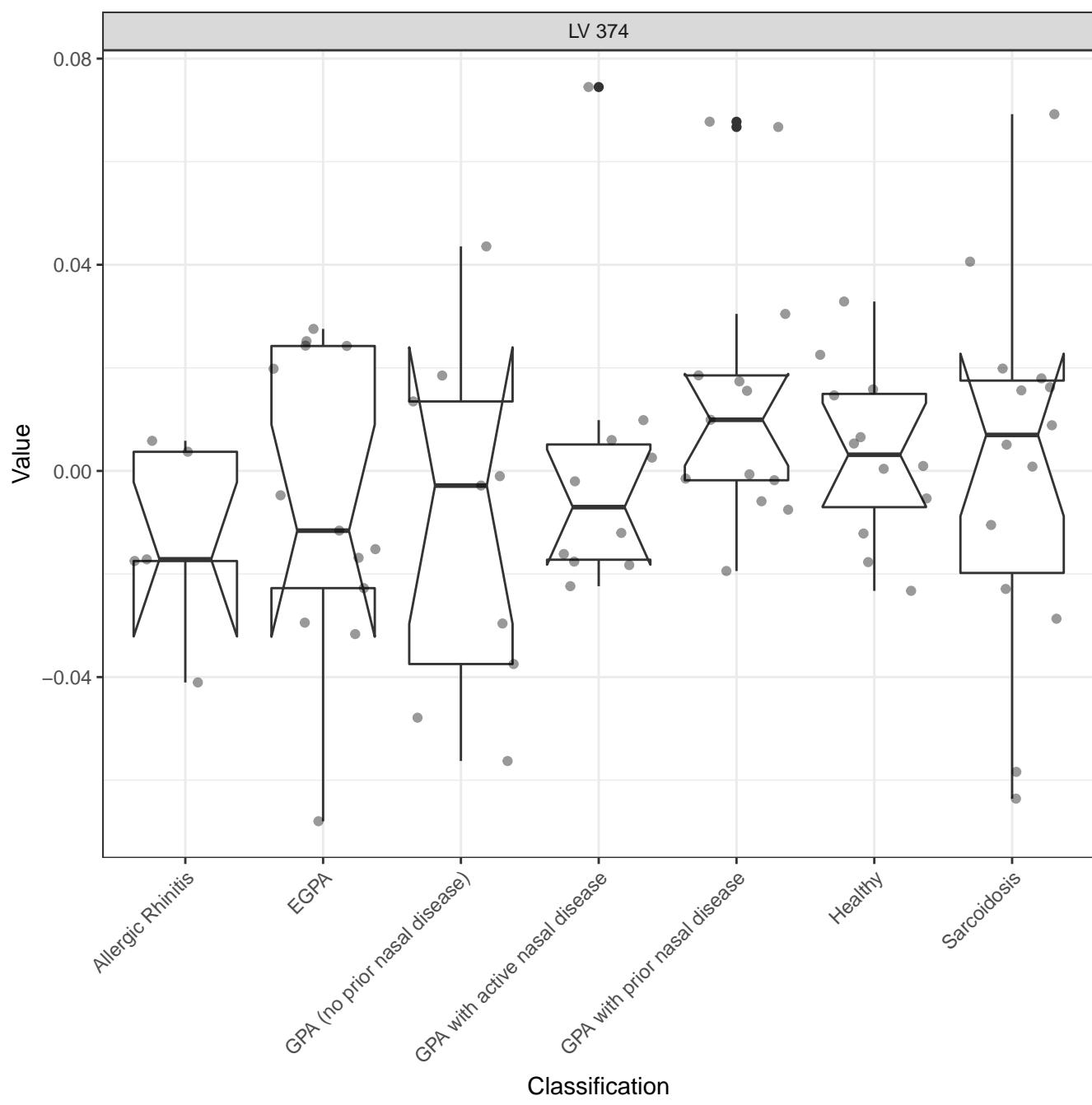
GPA with active nasal disease

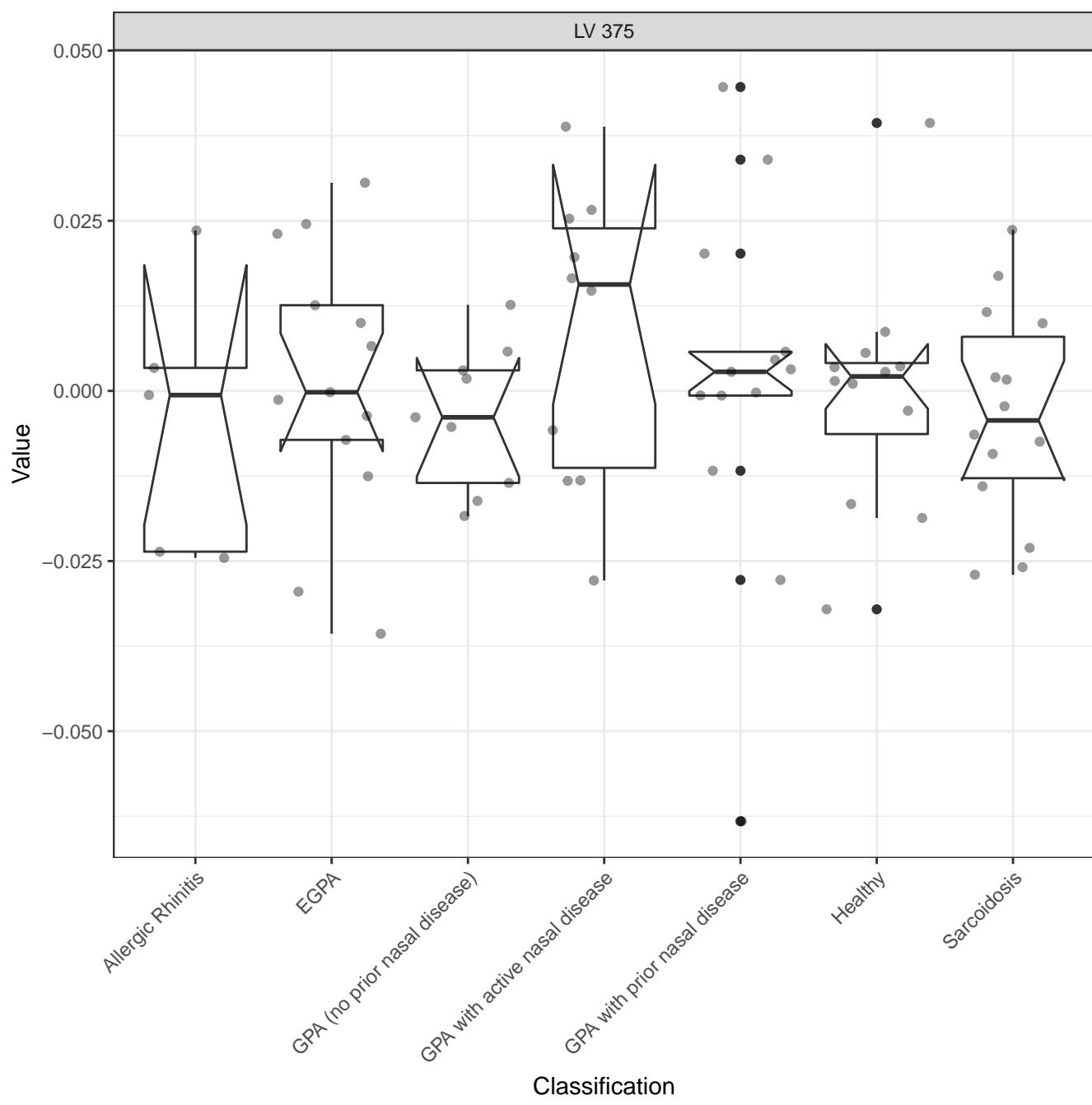
GPA with prior nasal disease

Healthy

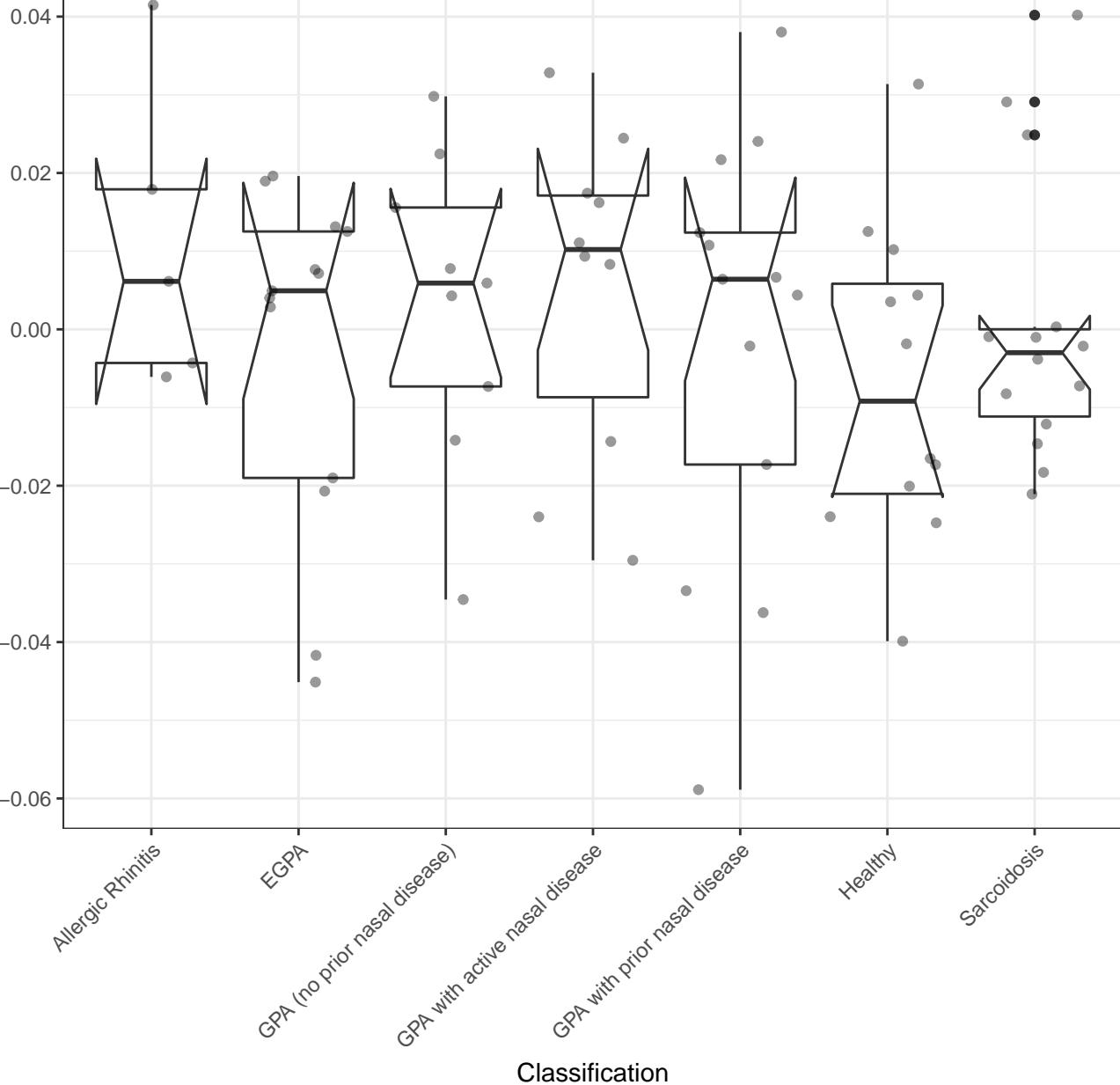
Sarcoidosis

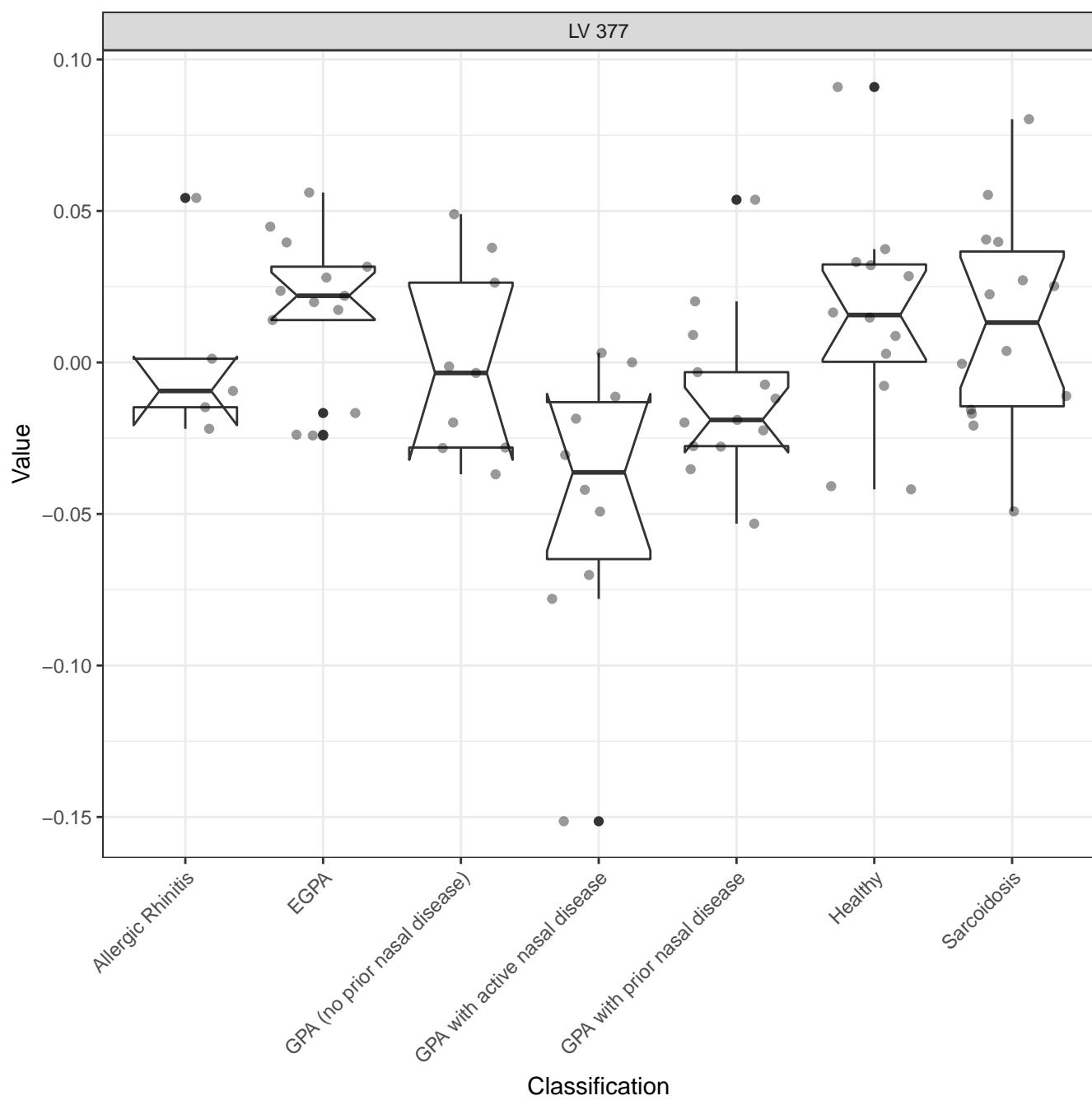
Classification





Value





Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

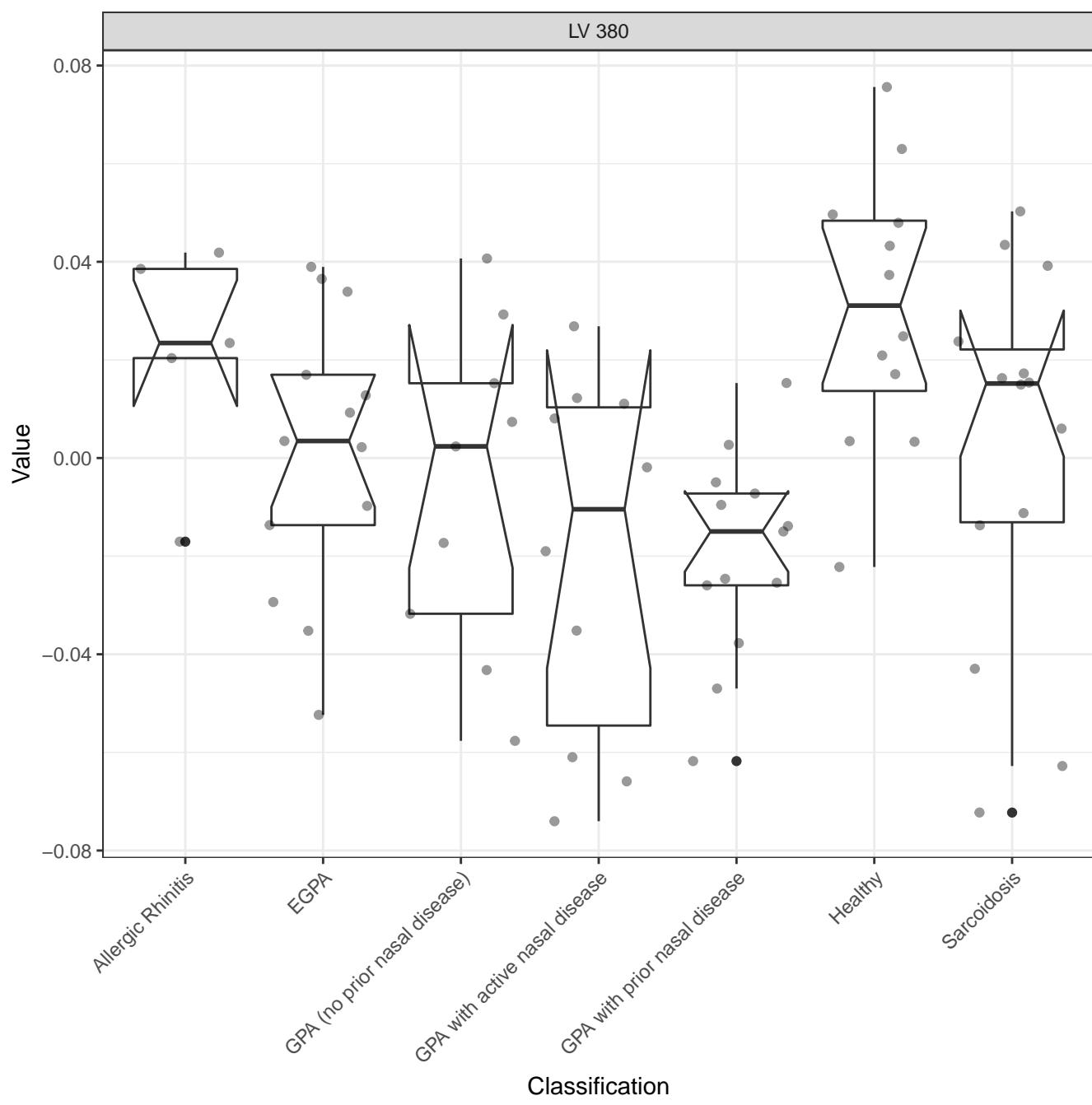
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.02

0.00

-0.02

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

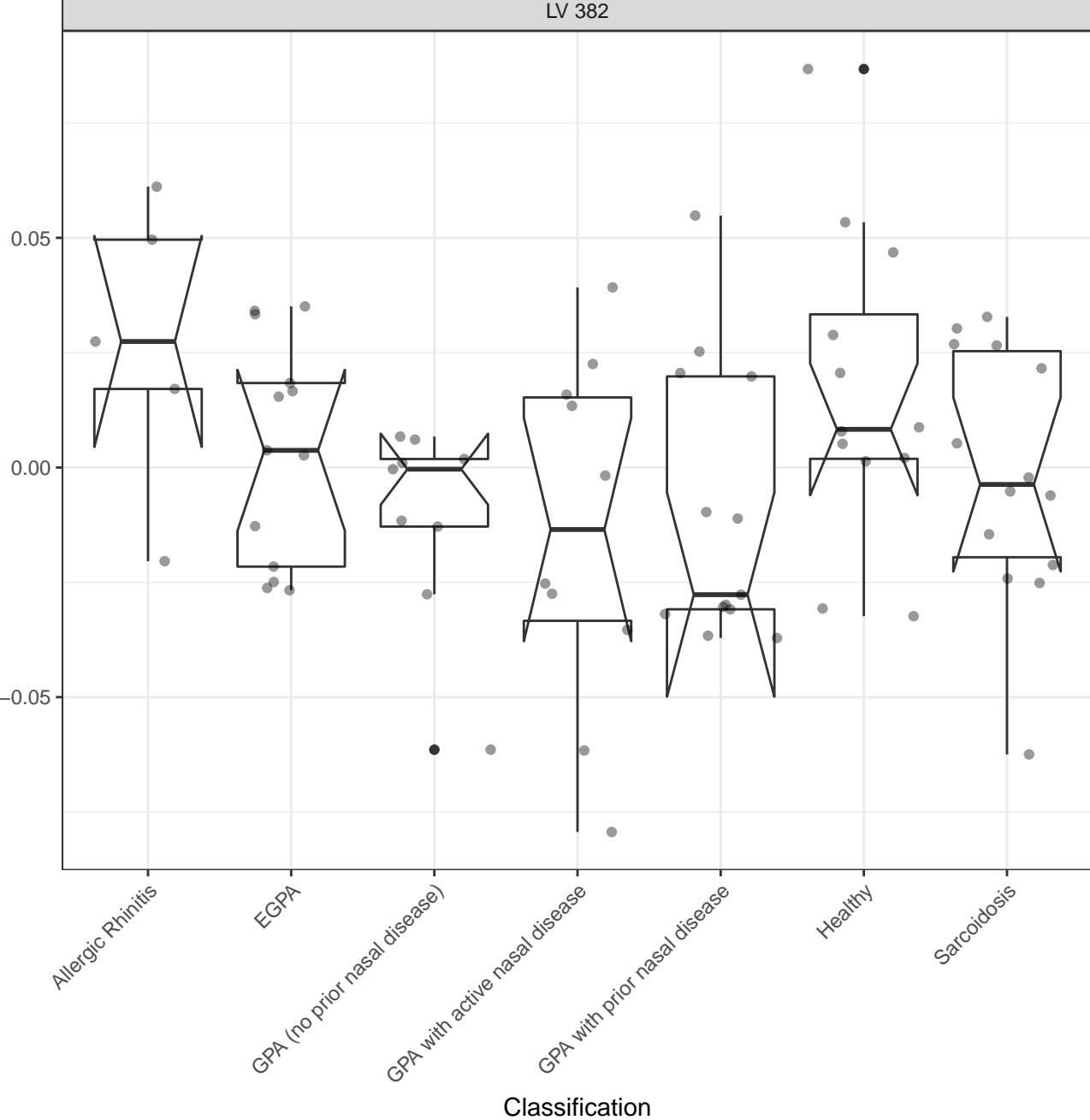
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.01

-0.05

-0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

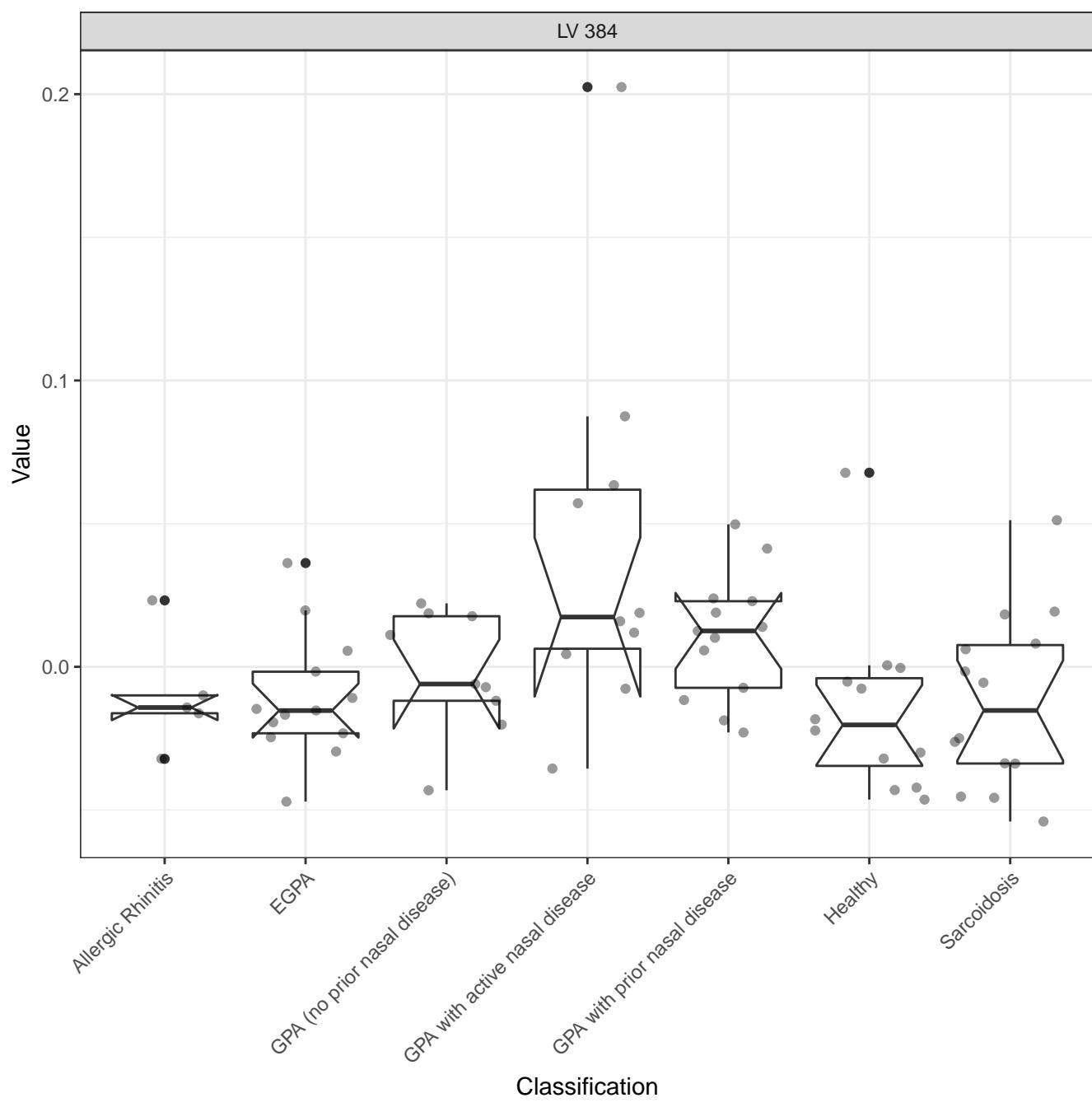
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

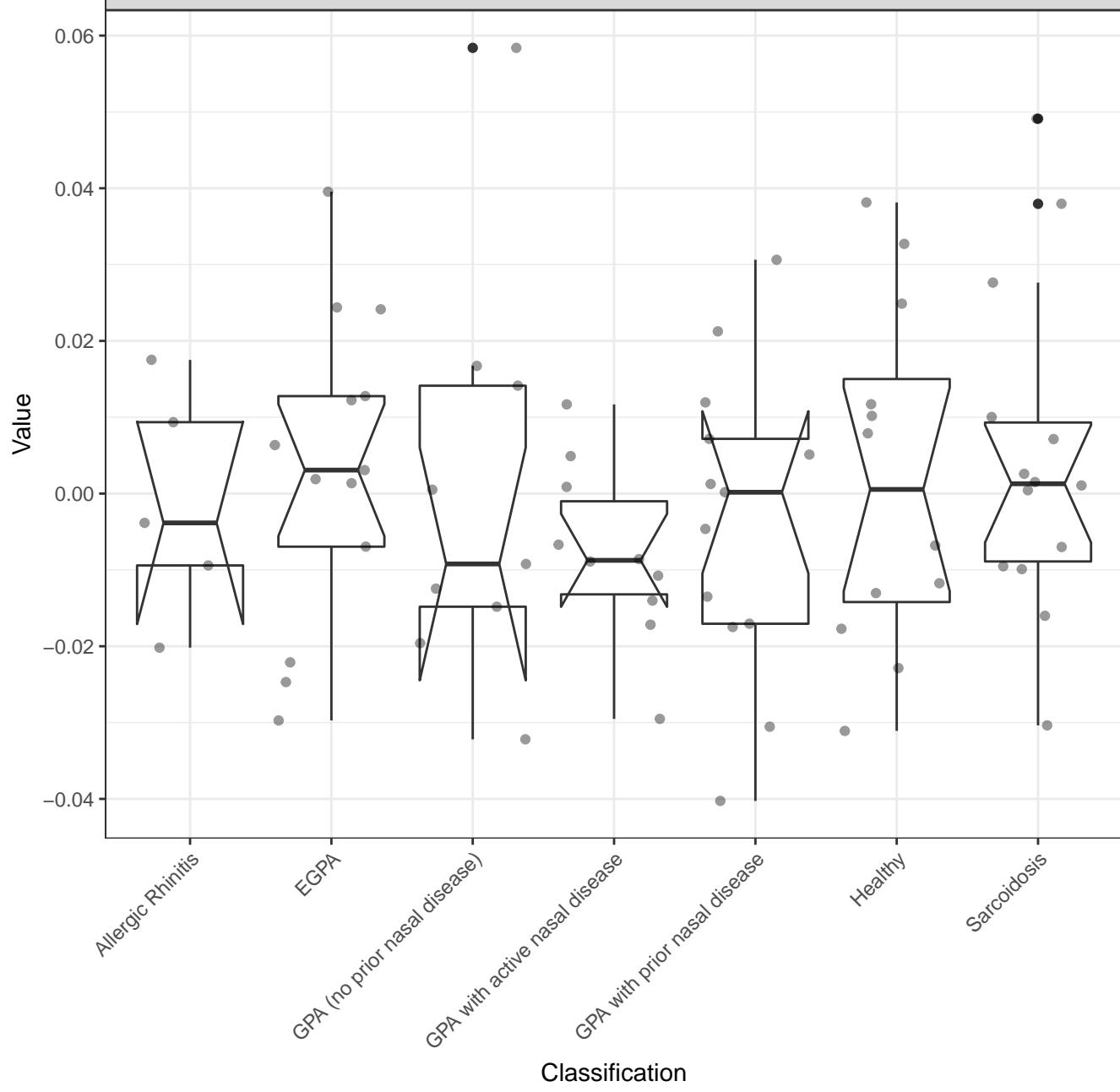
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

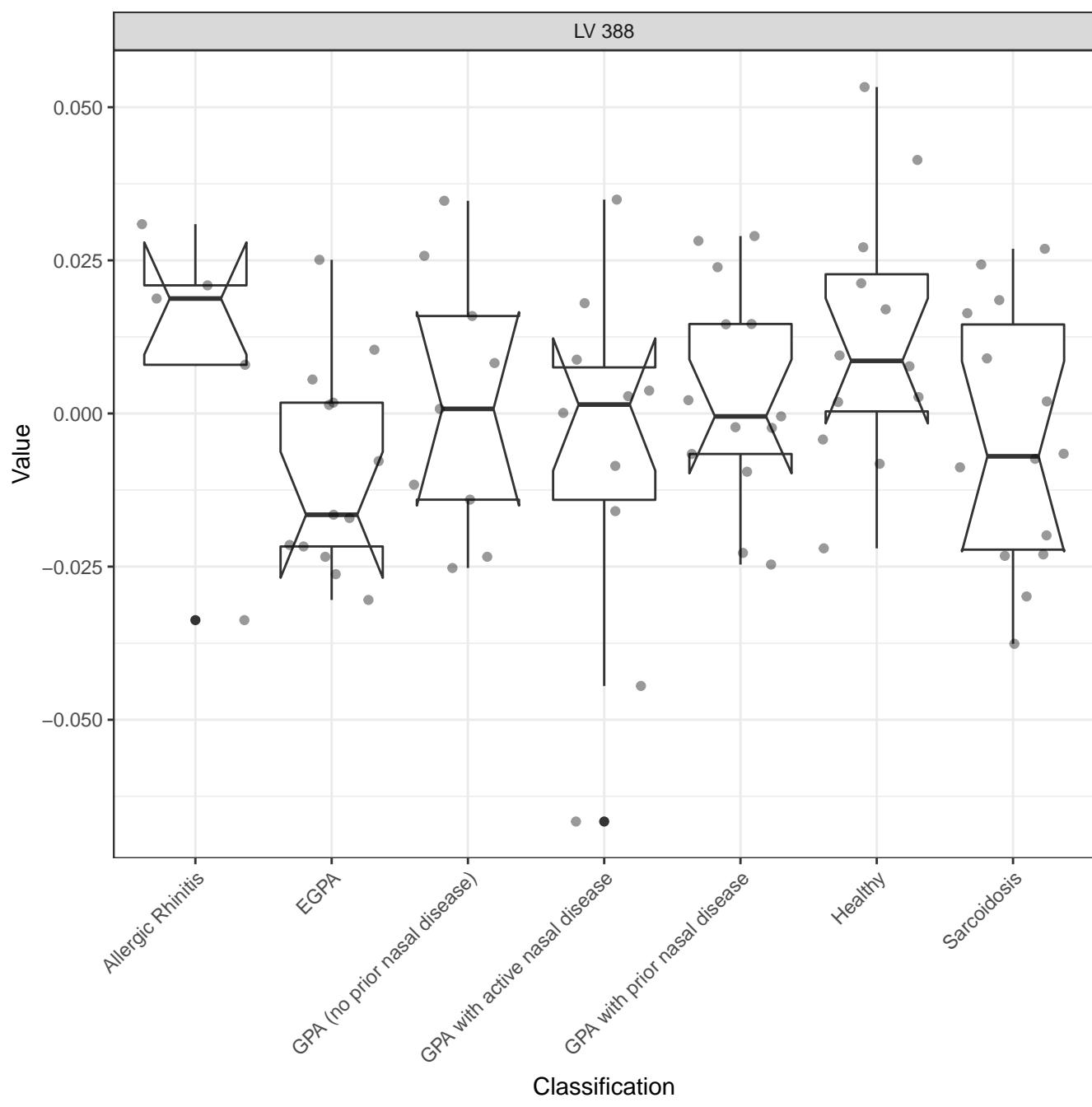
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

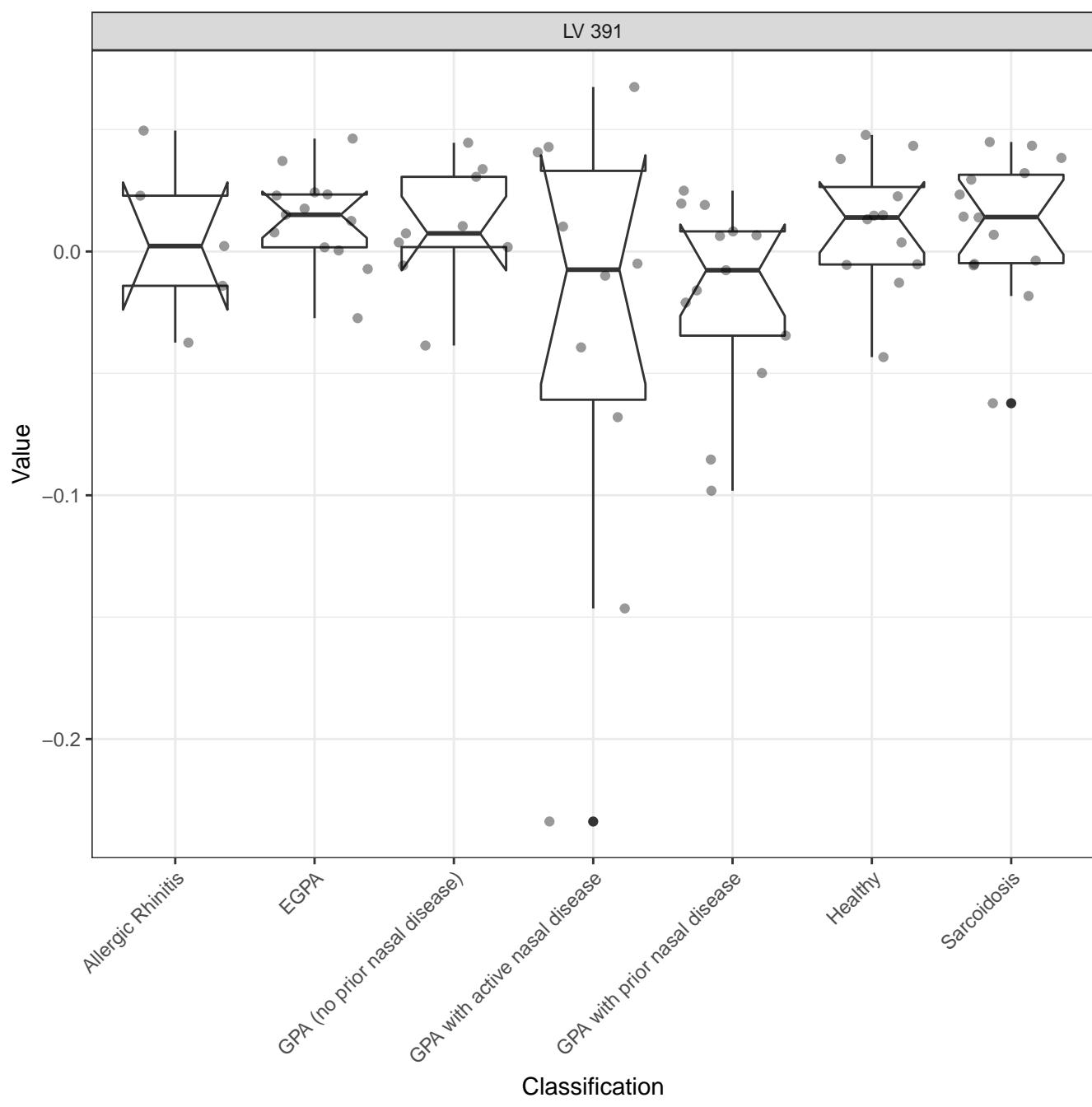
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

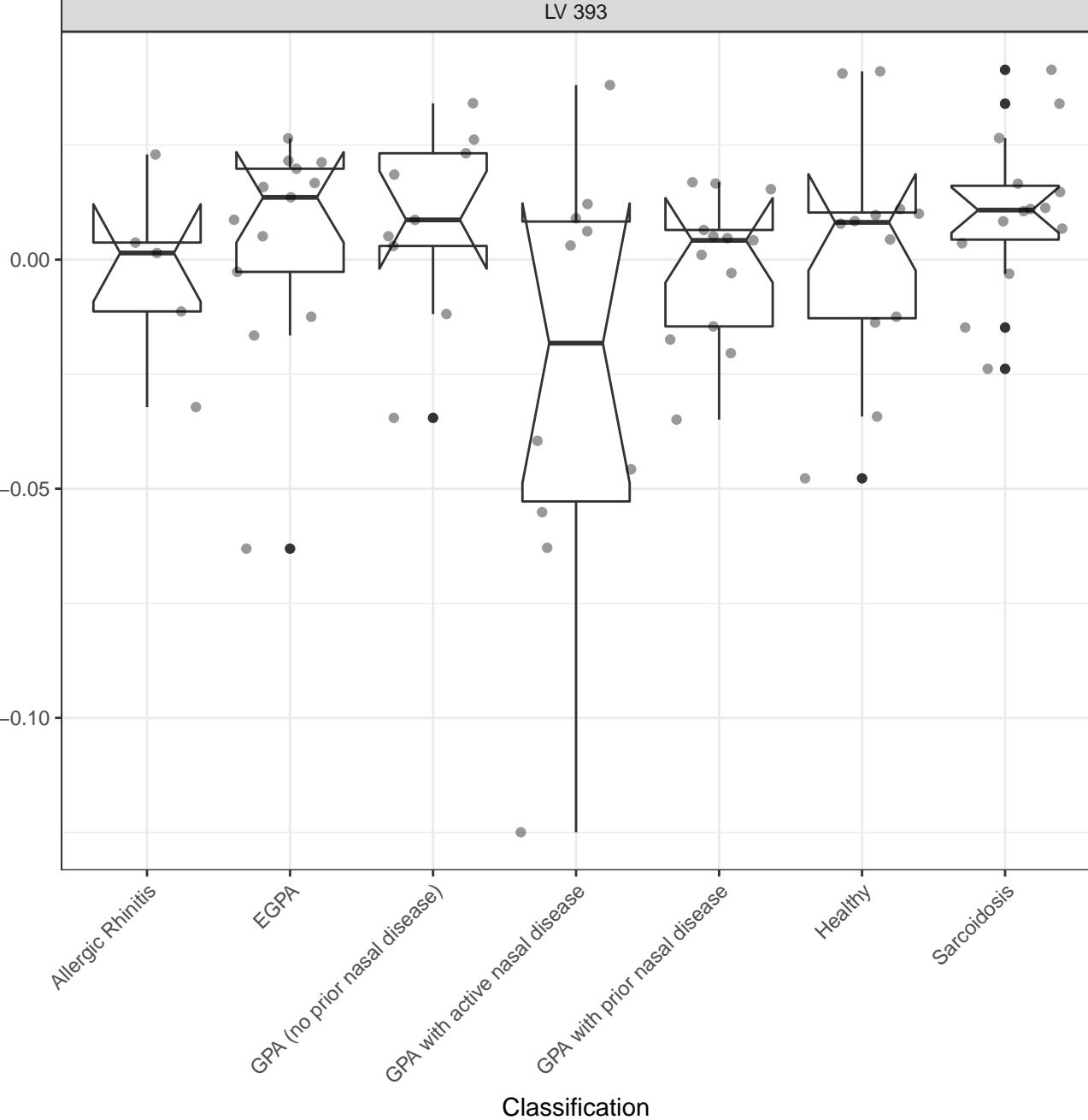
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10  
0.05  
0.00  
-0.05  
-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

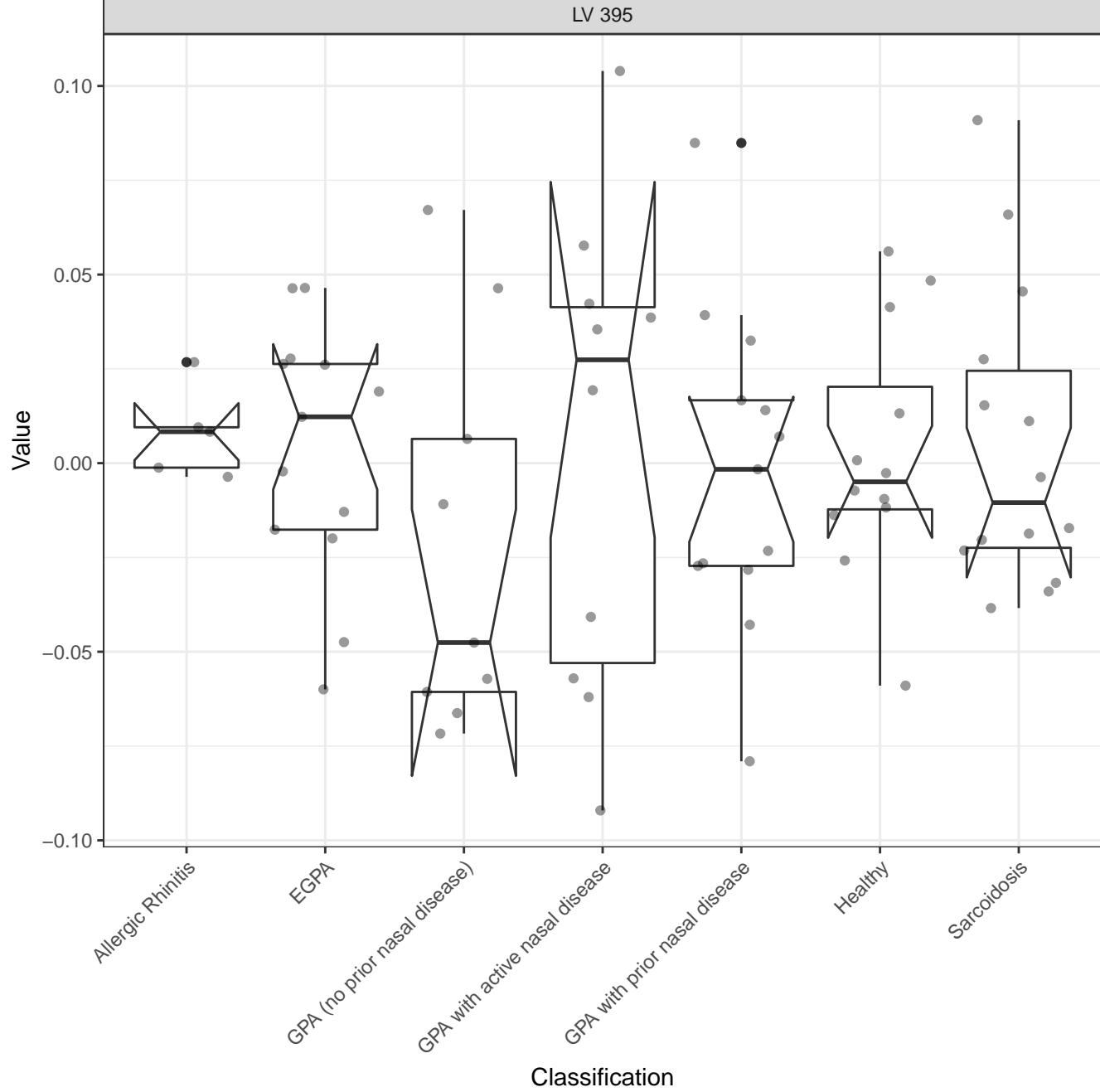
GPA with active nasal disease

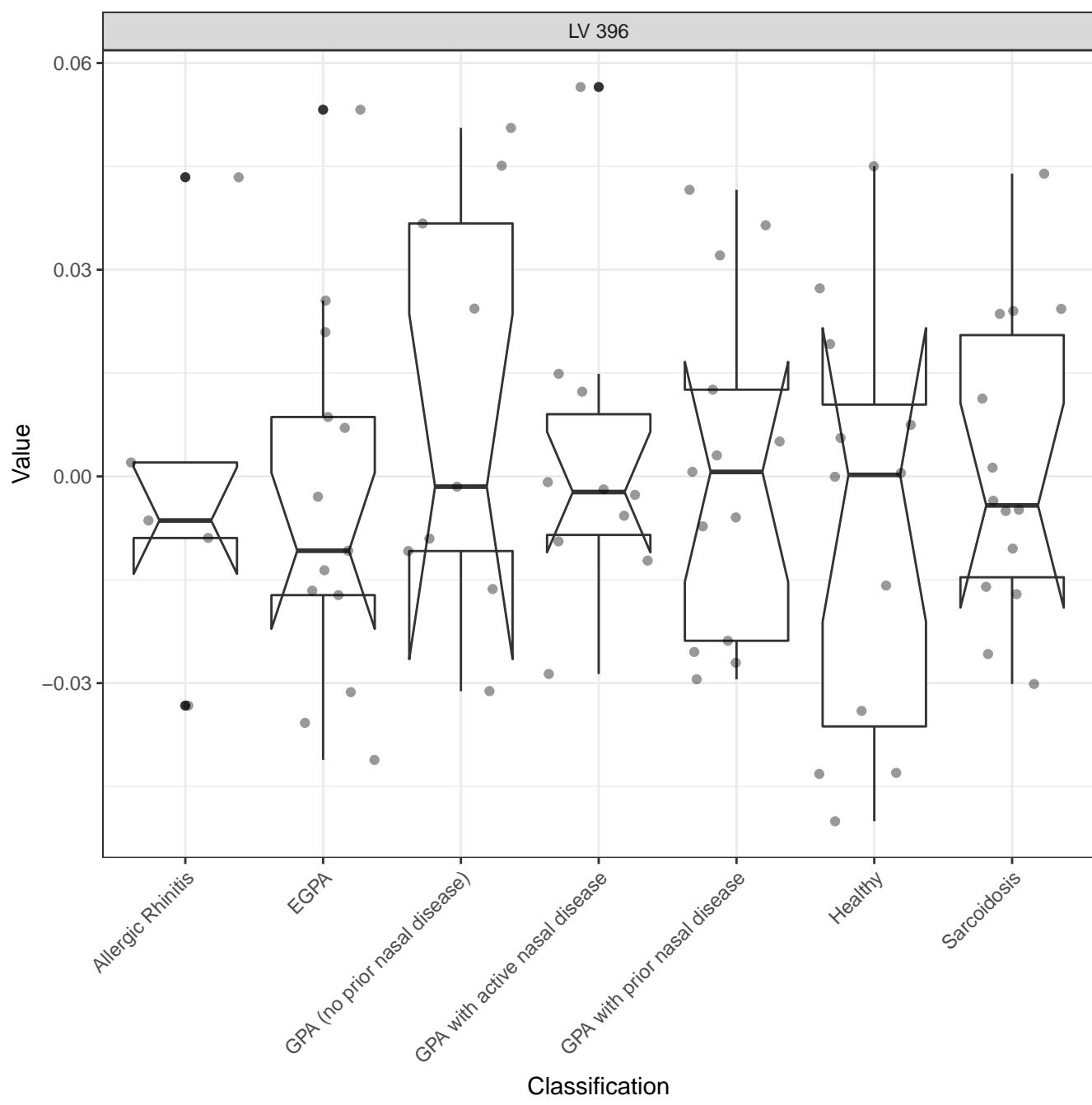
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





LV 397

Value

0.15  
0.10  
0.05  
0.00  
-0.05  
-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

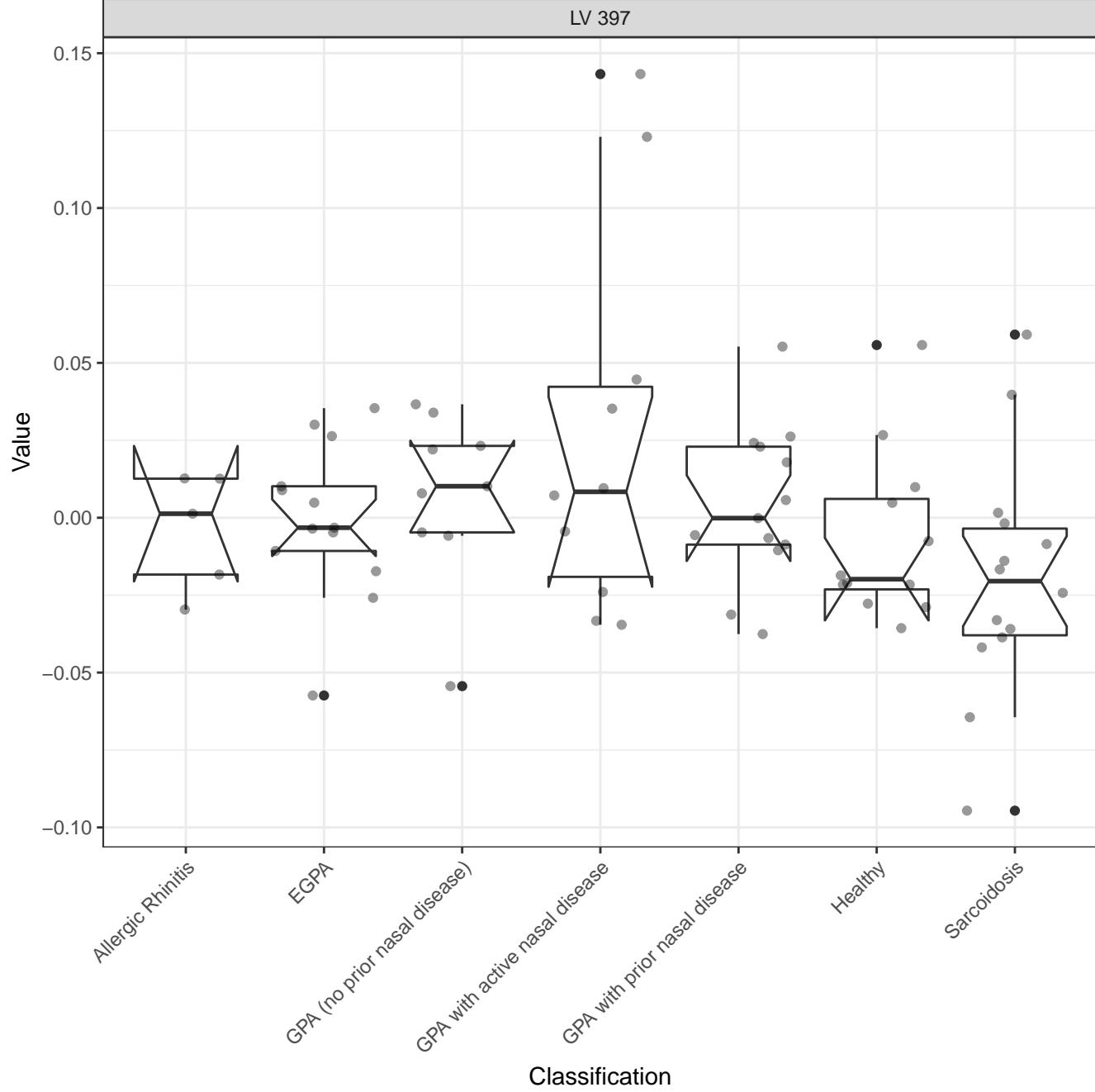
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



LV 398

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

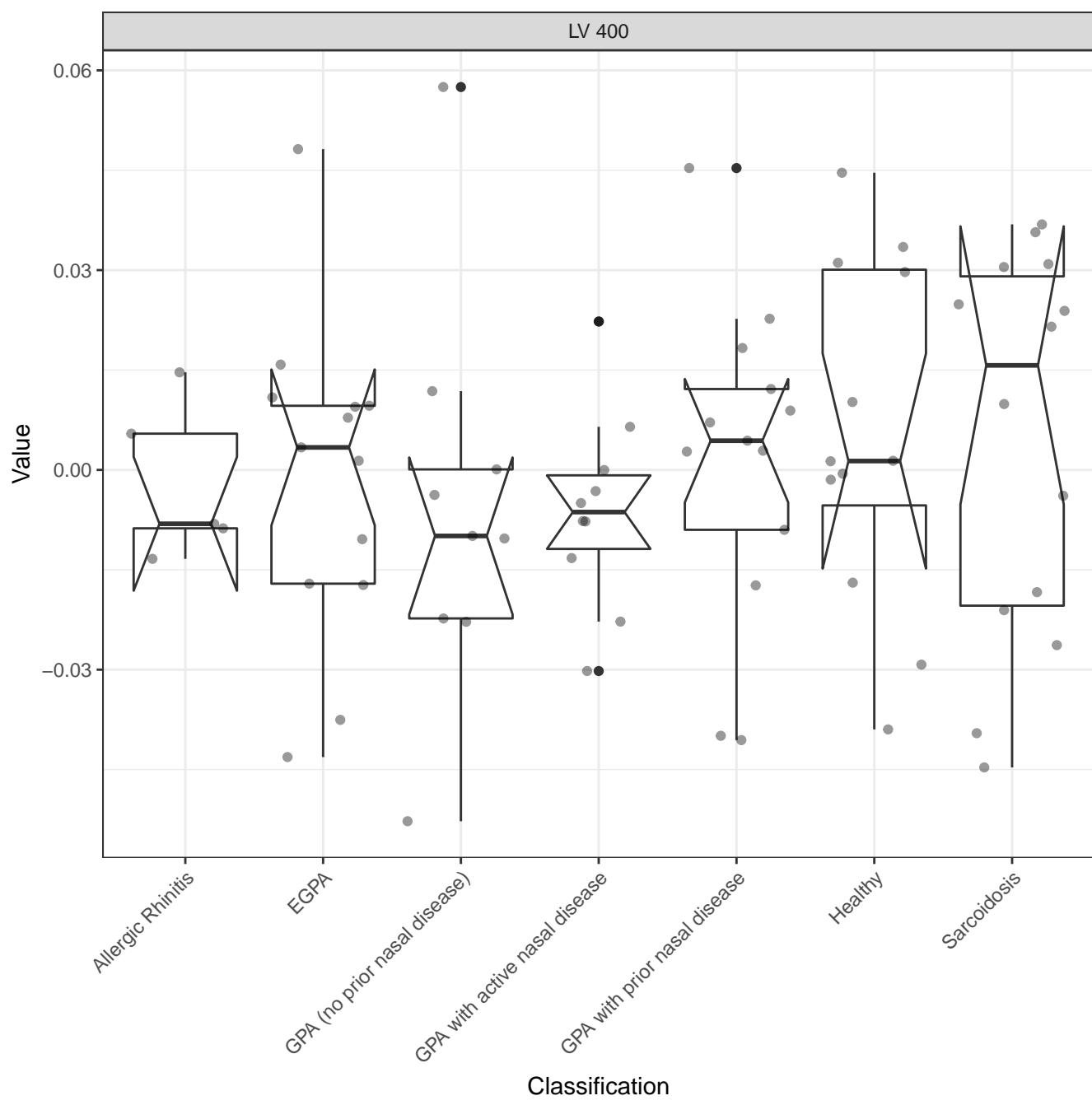
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 404

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

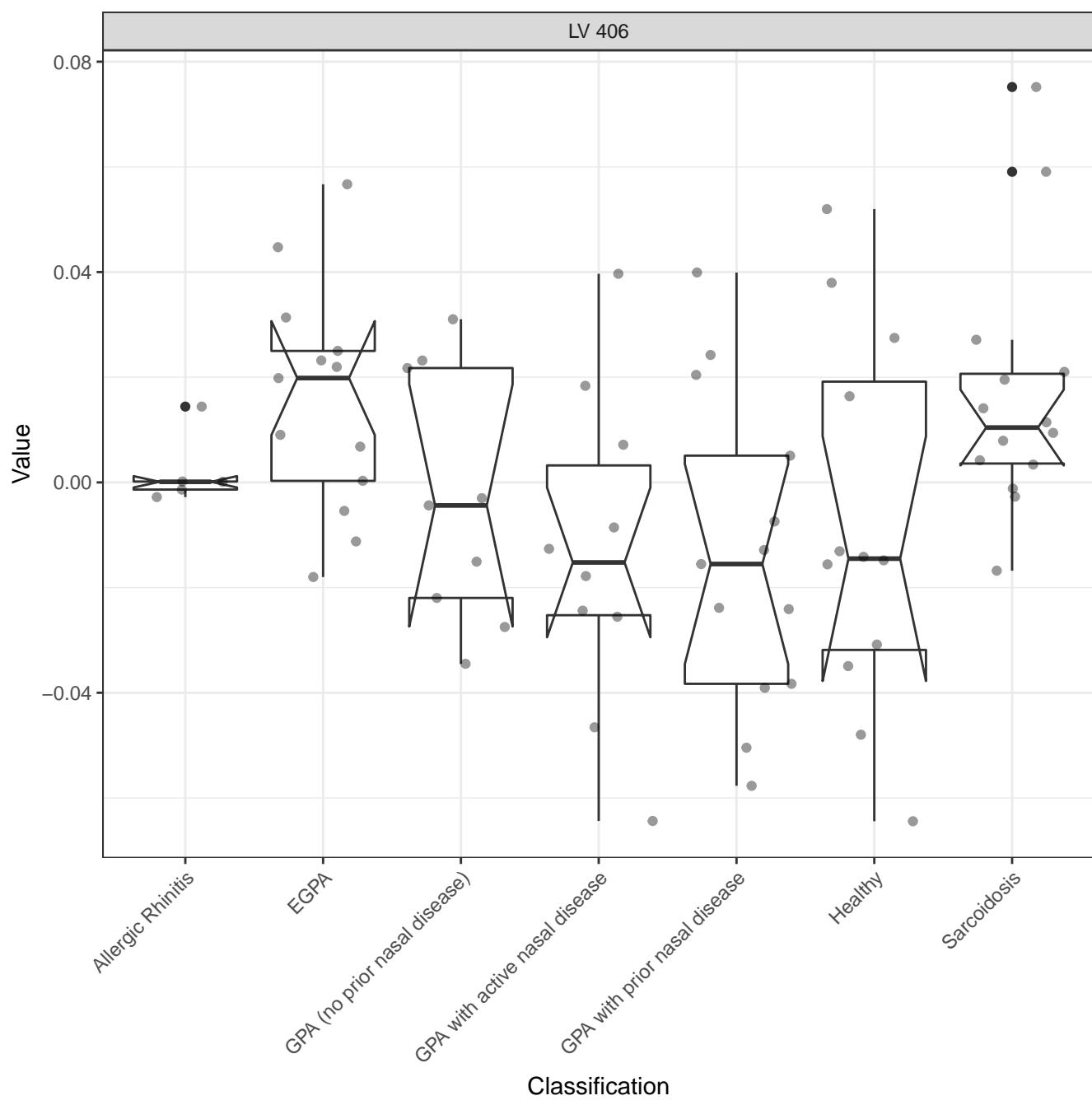
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

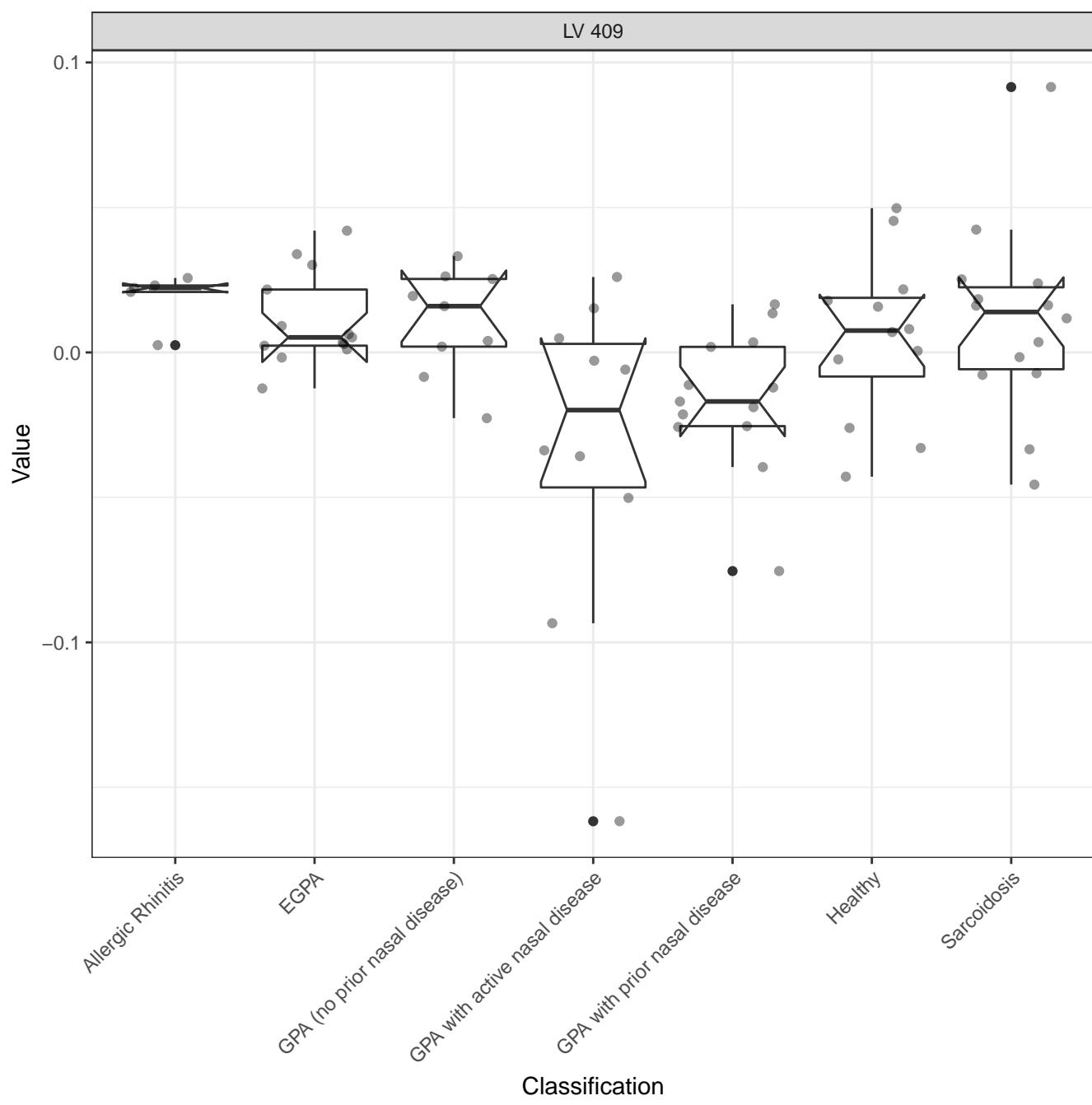
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

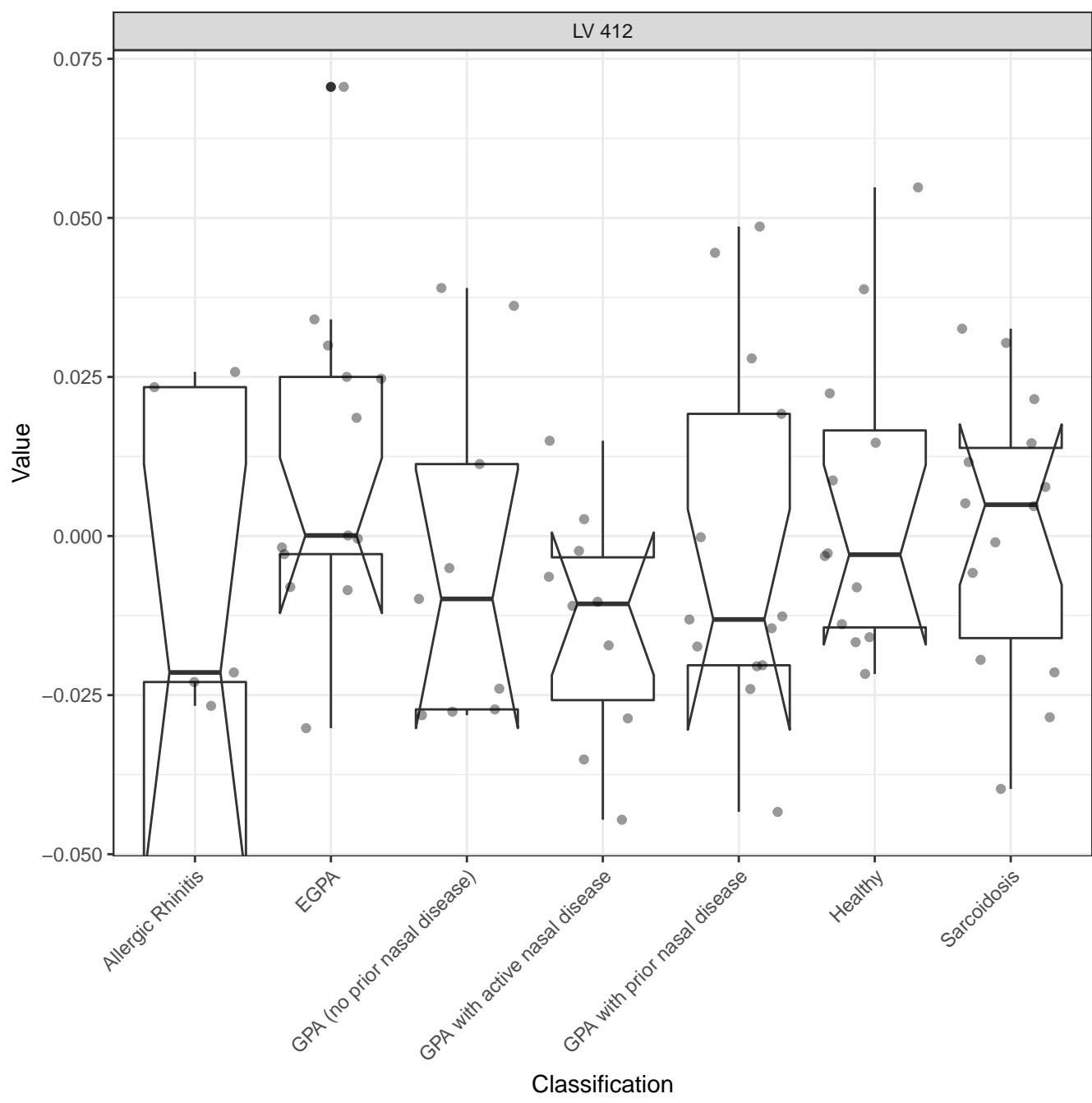
GPA with active nasal disease

GPA with prior nasal disease

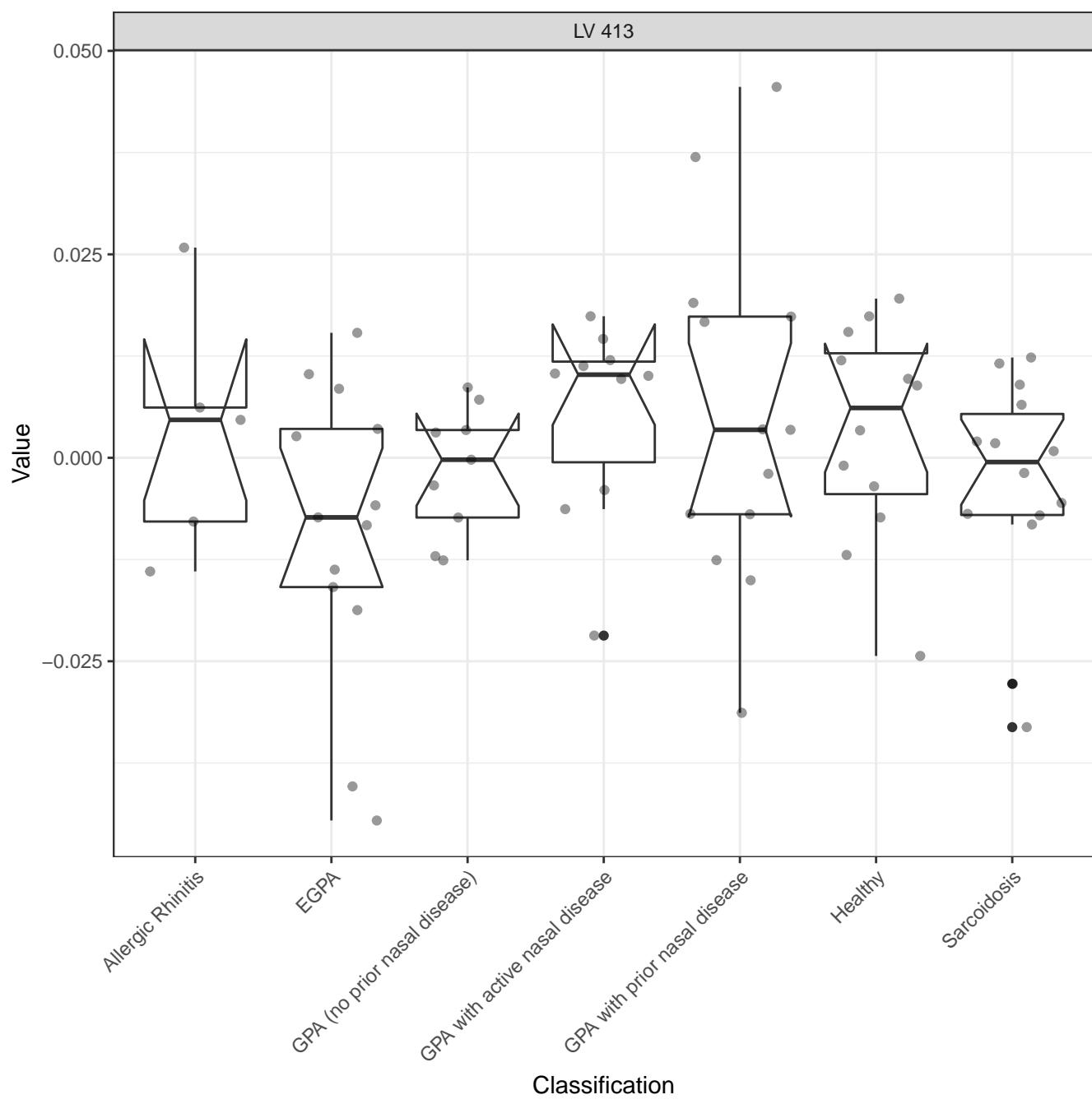
Healthy

Sarcoidosis

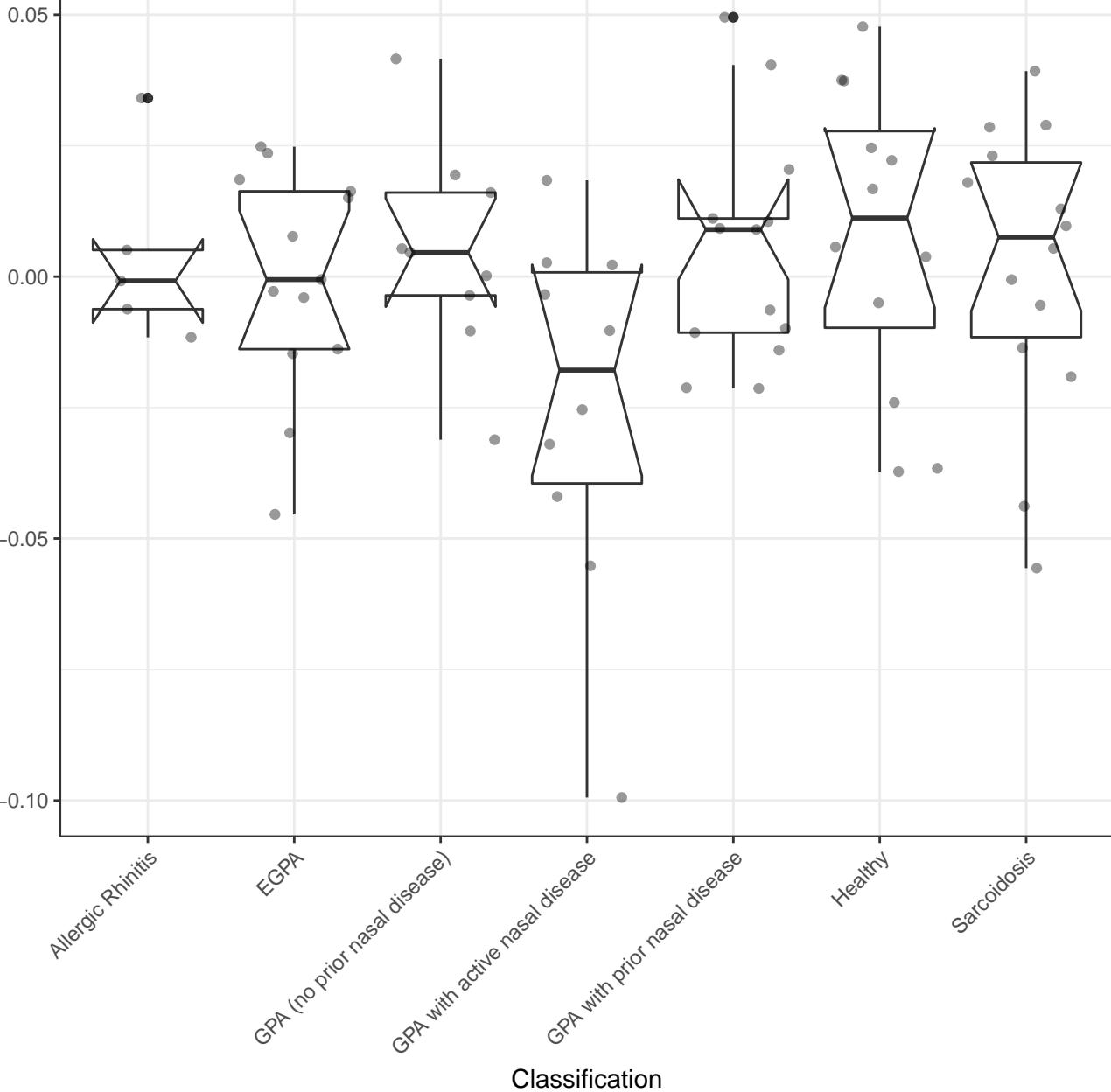
Classification



LV 413



Value



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

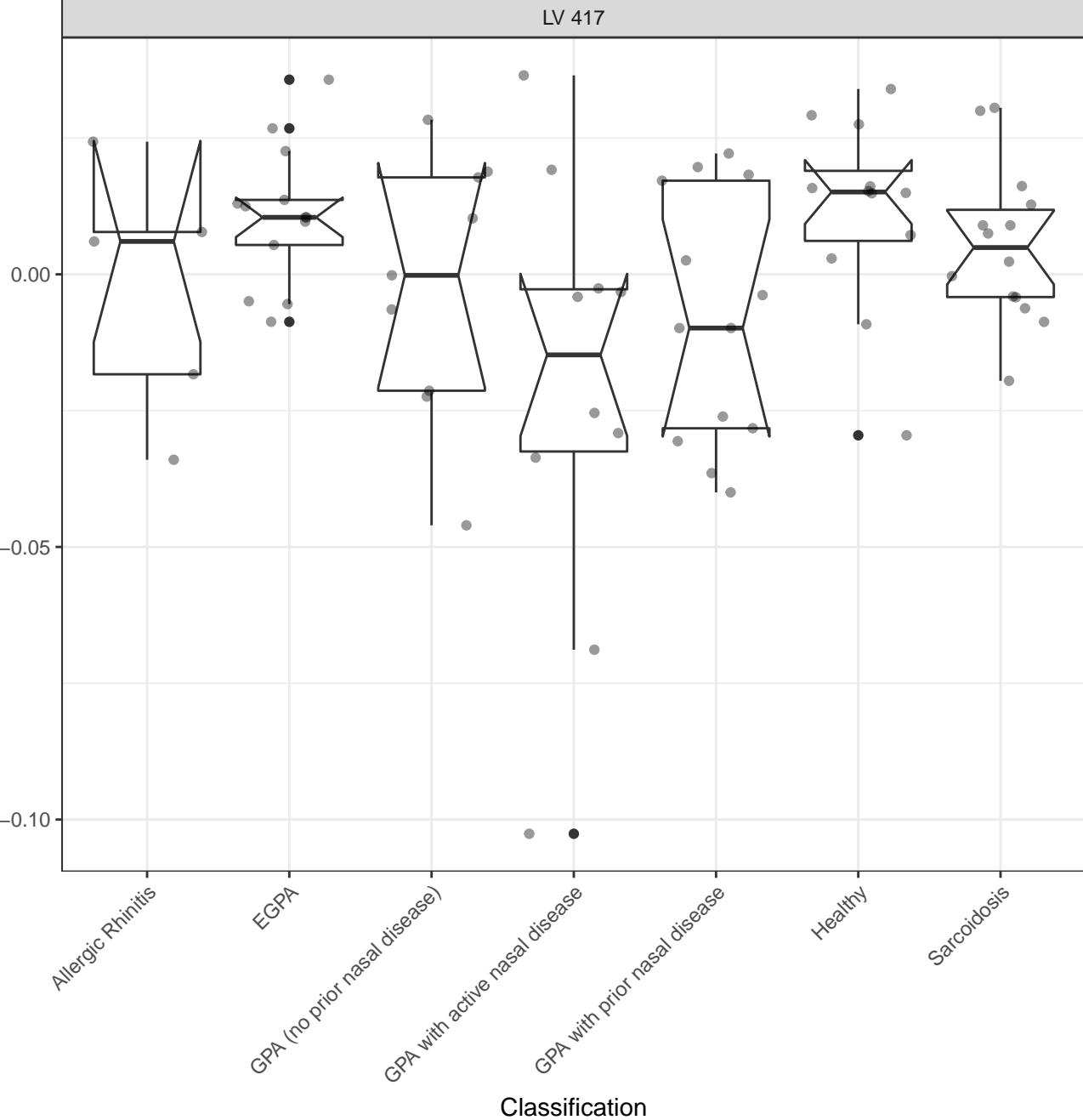
GPA with prior nasal disease

Healthy

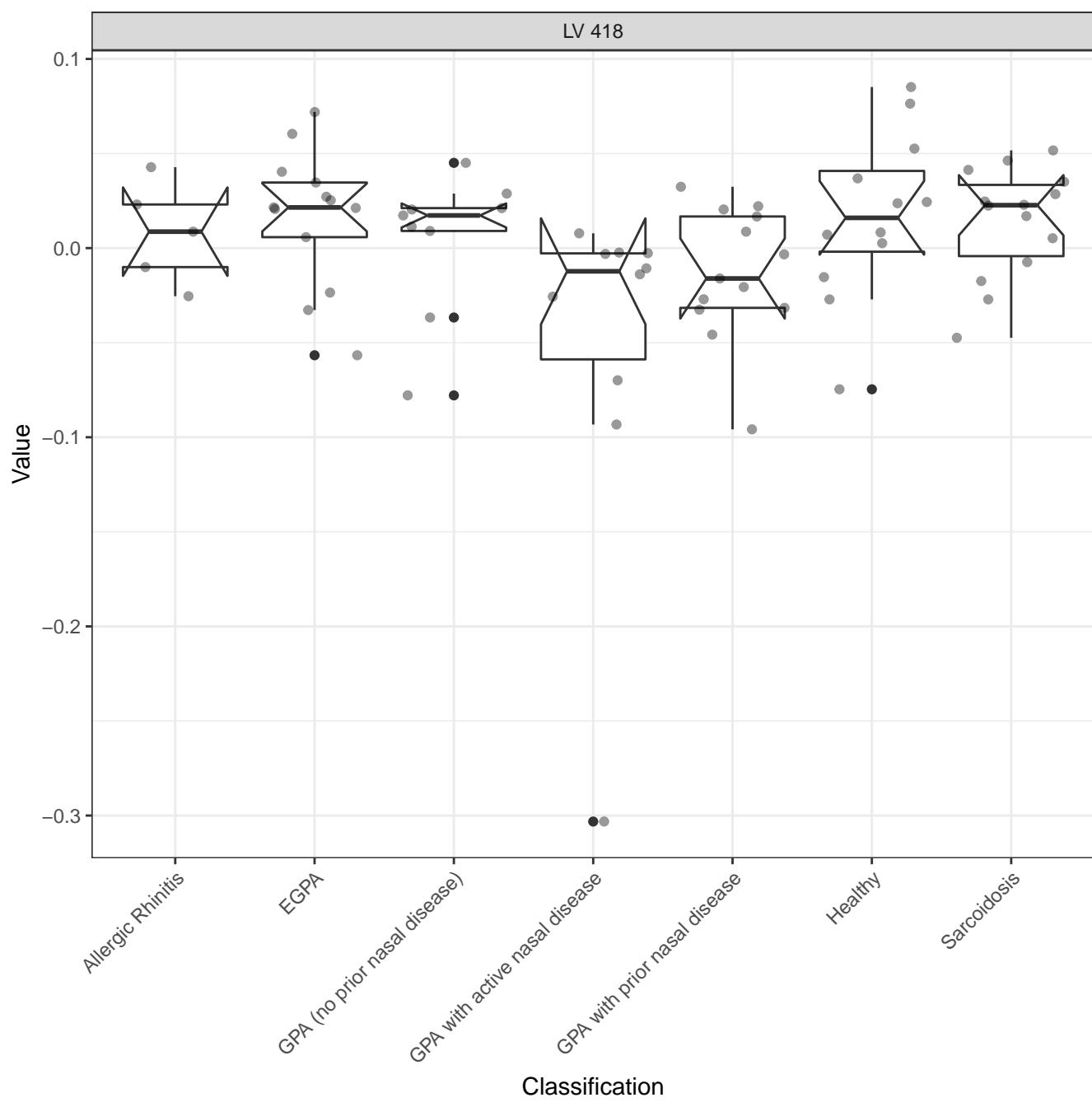
Sarcoidosis

Classification

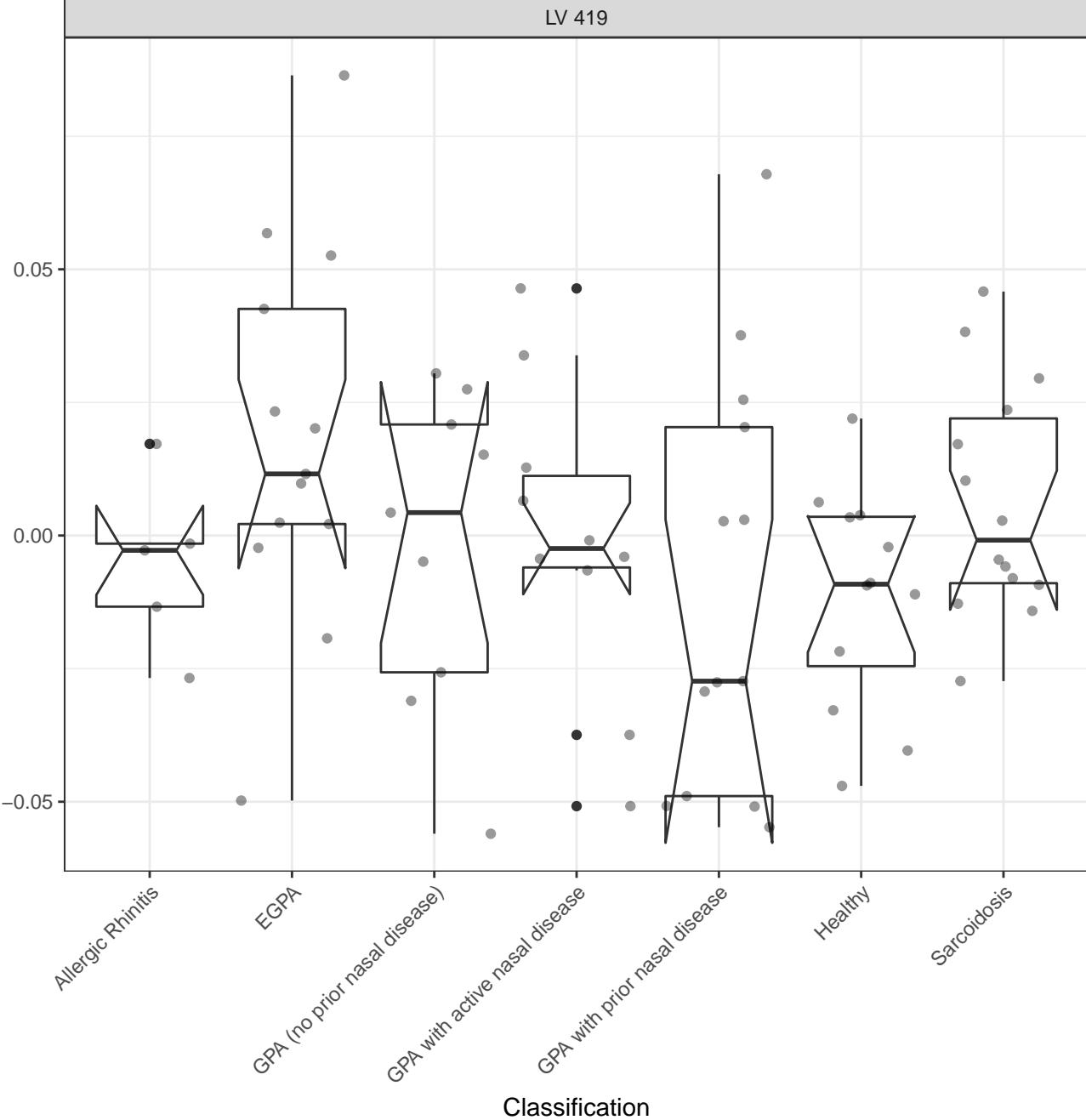
Value

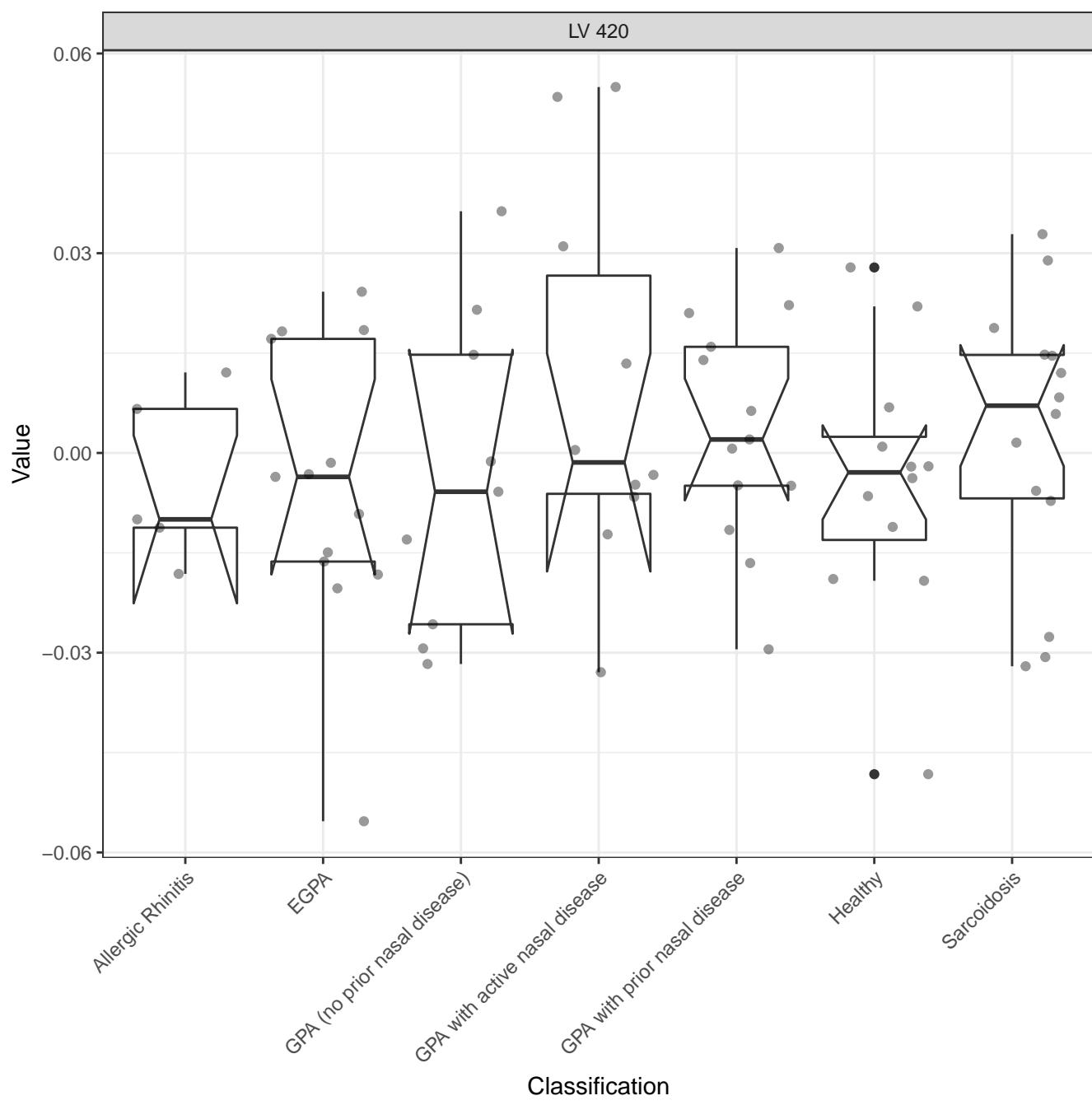


LV 418

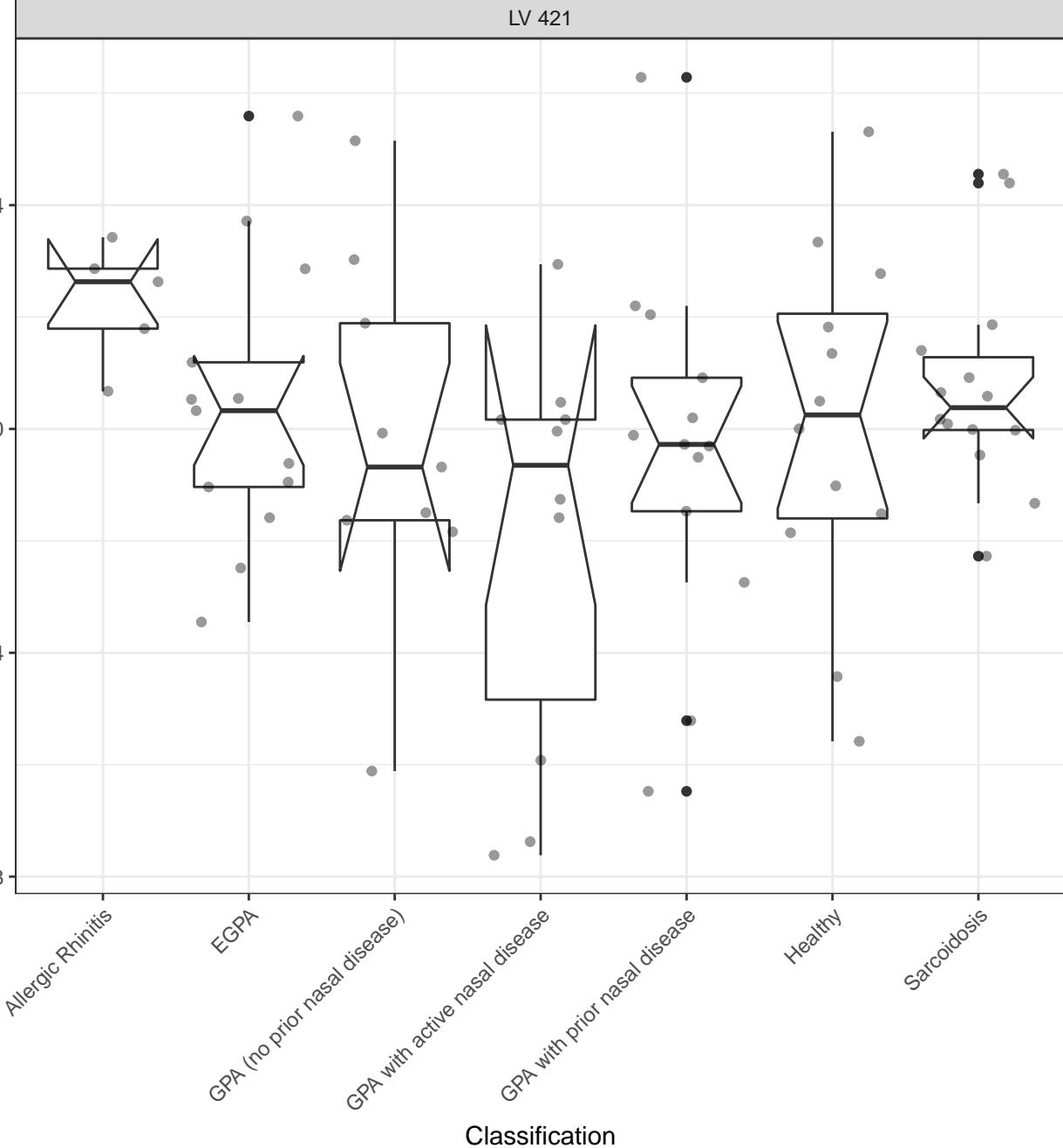


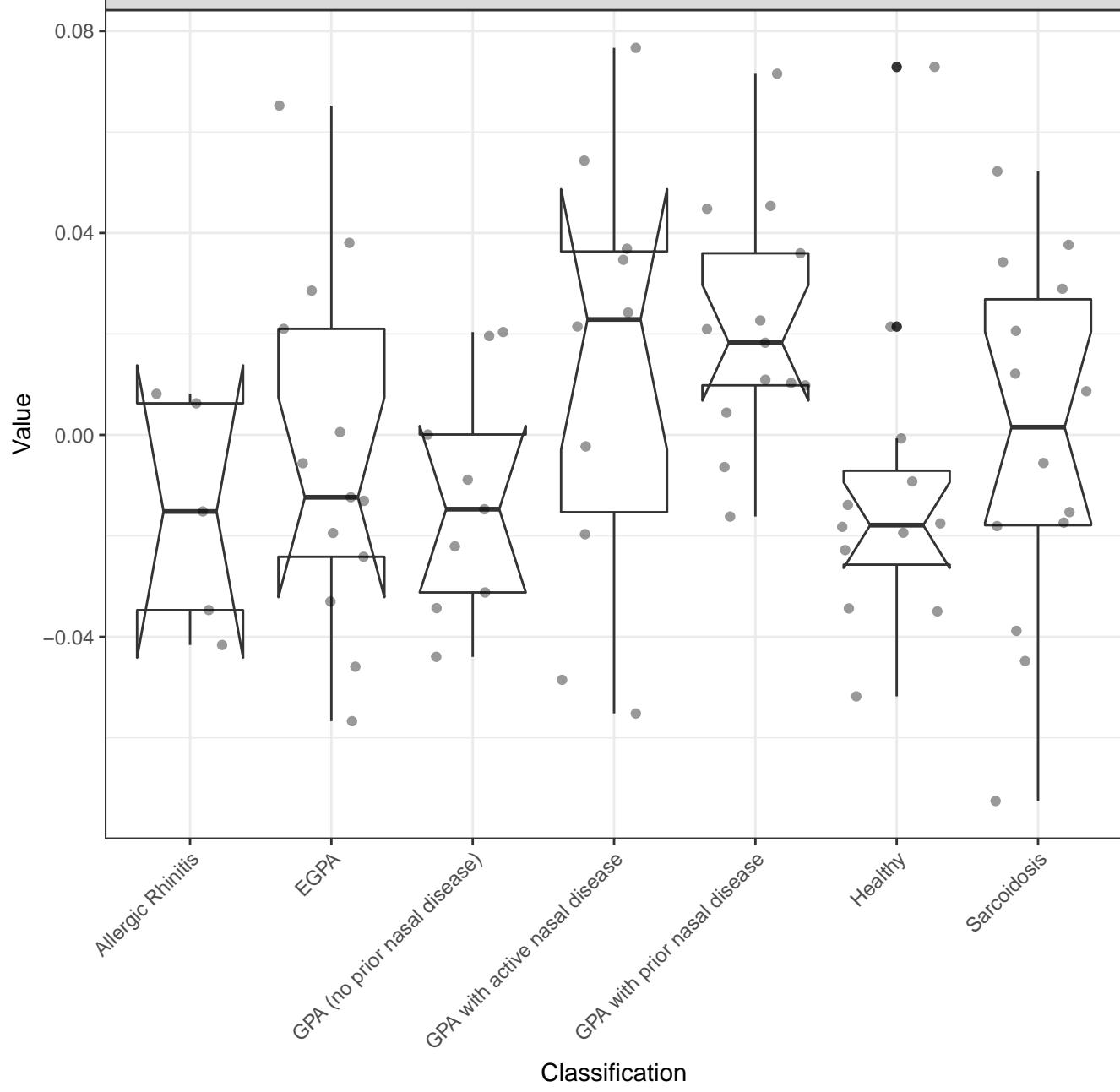
Value

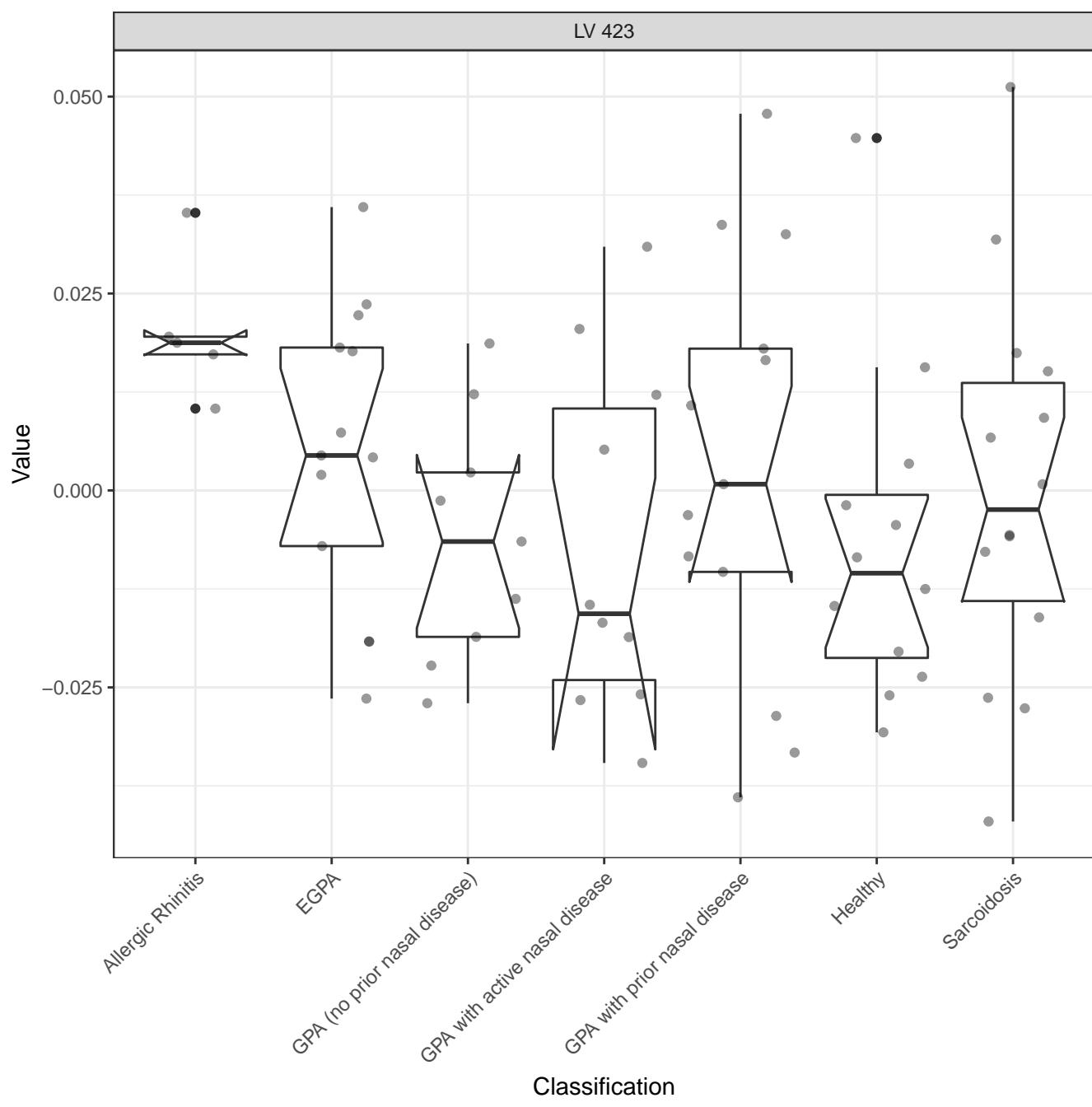




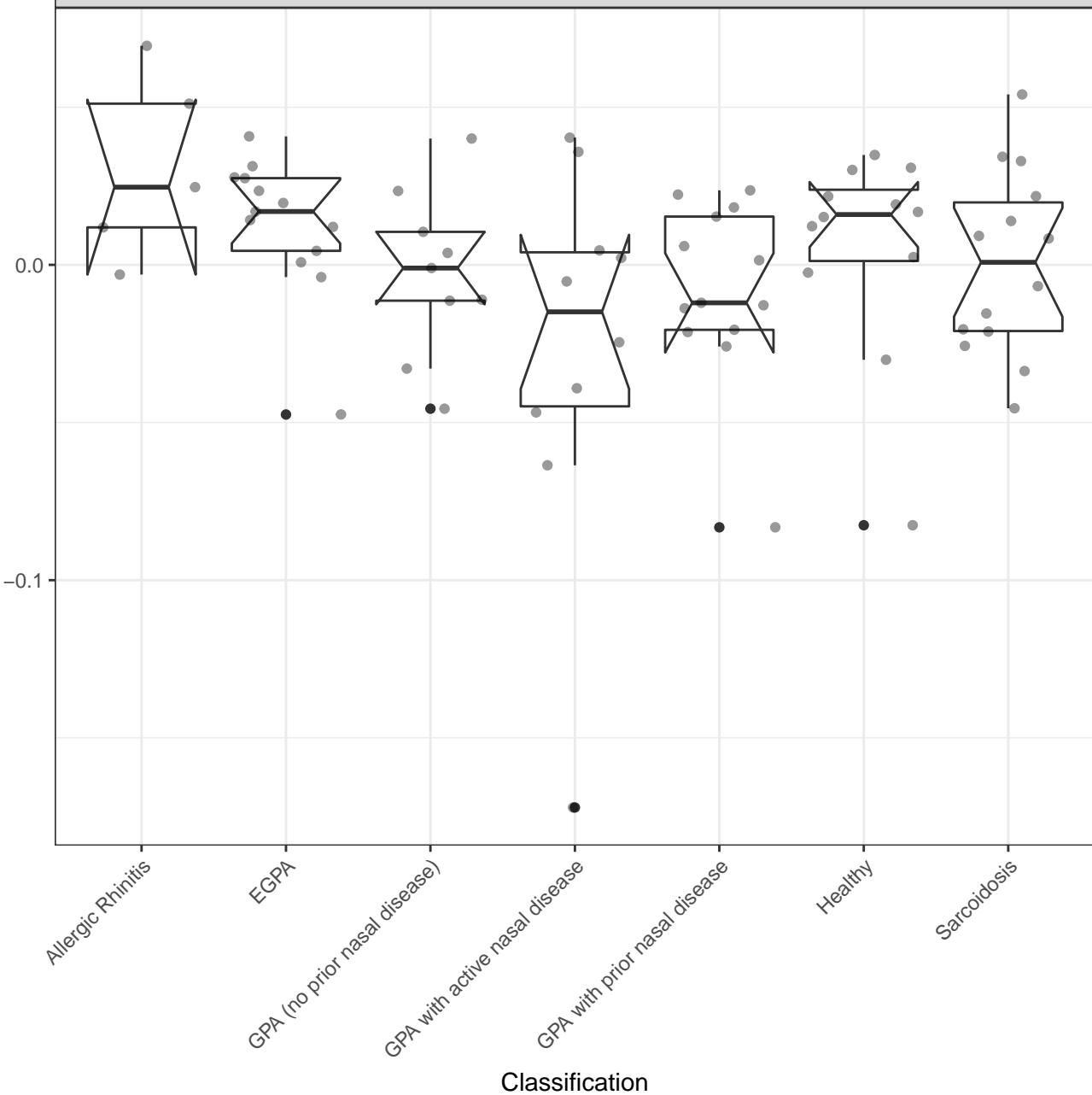
Value







Value



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

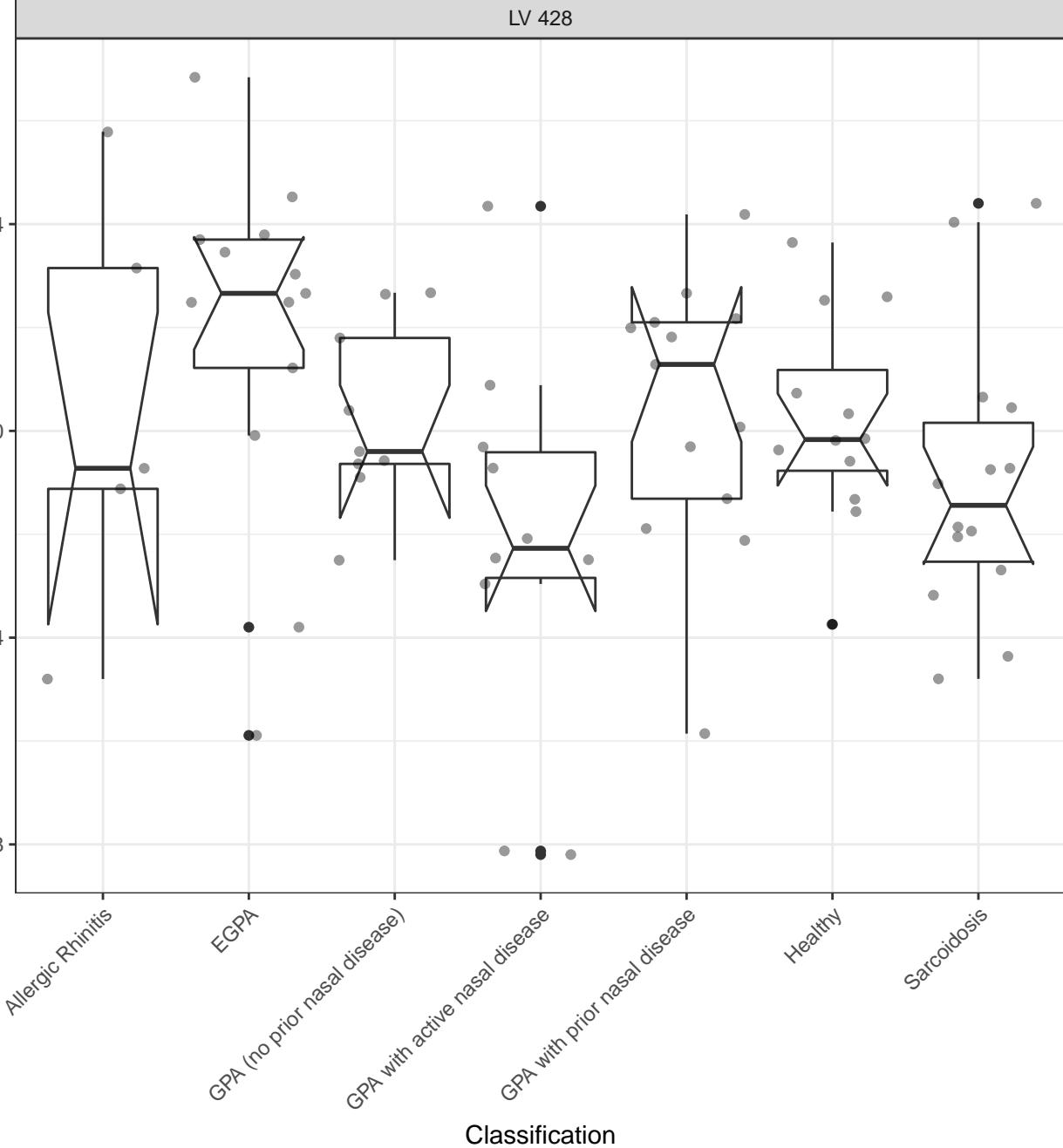
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

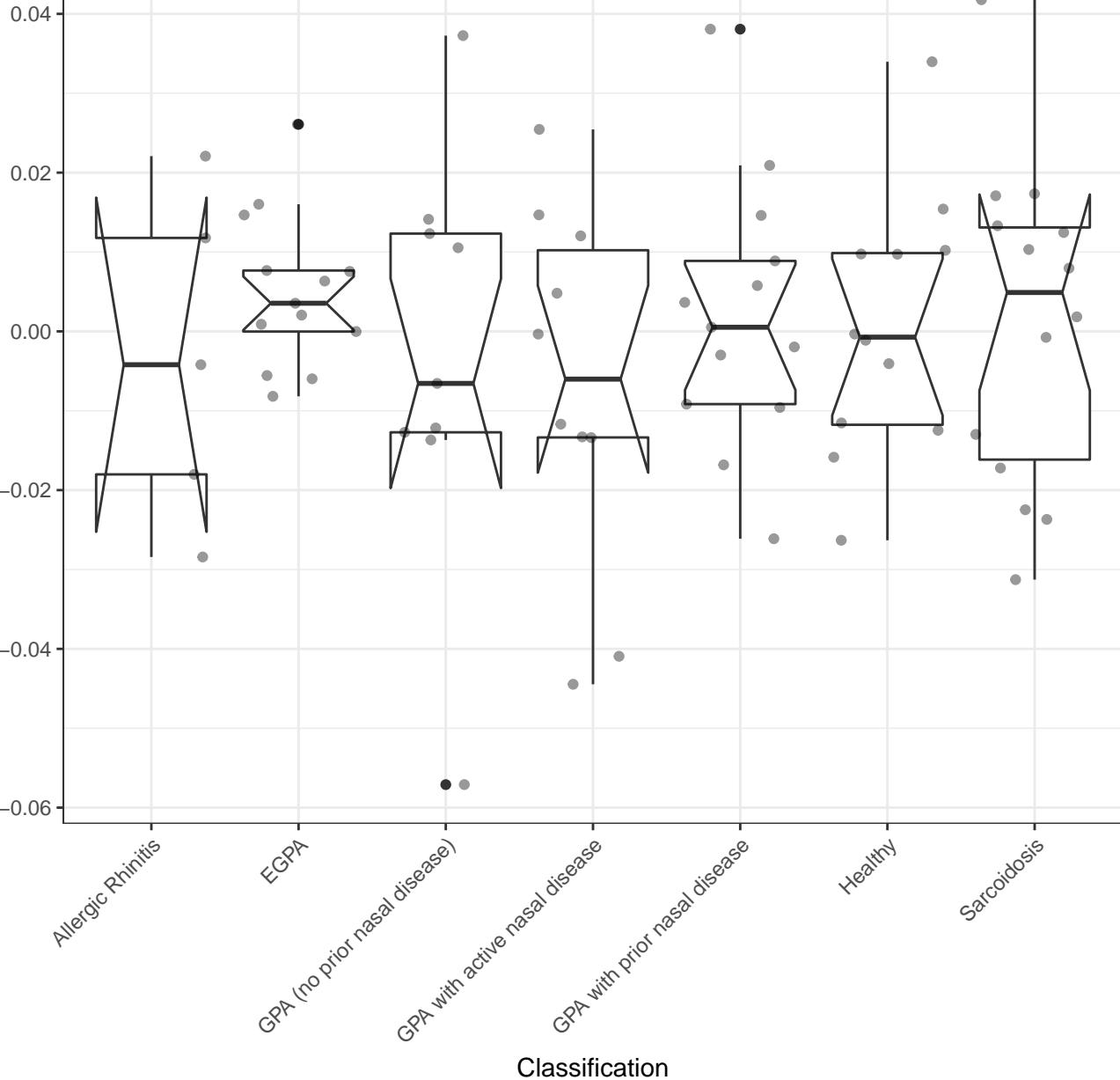
GPA with prior nasal disease

Healthy

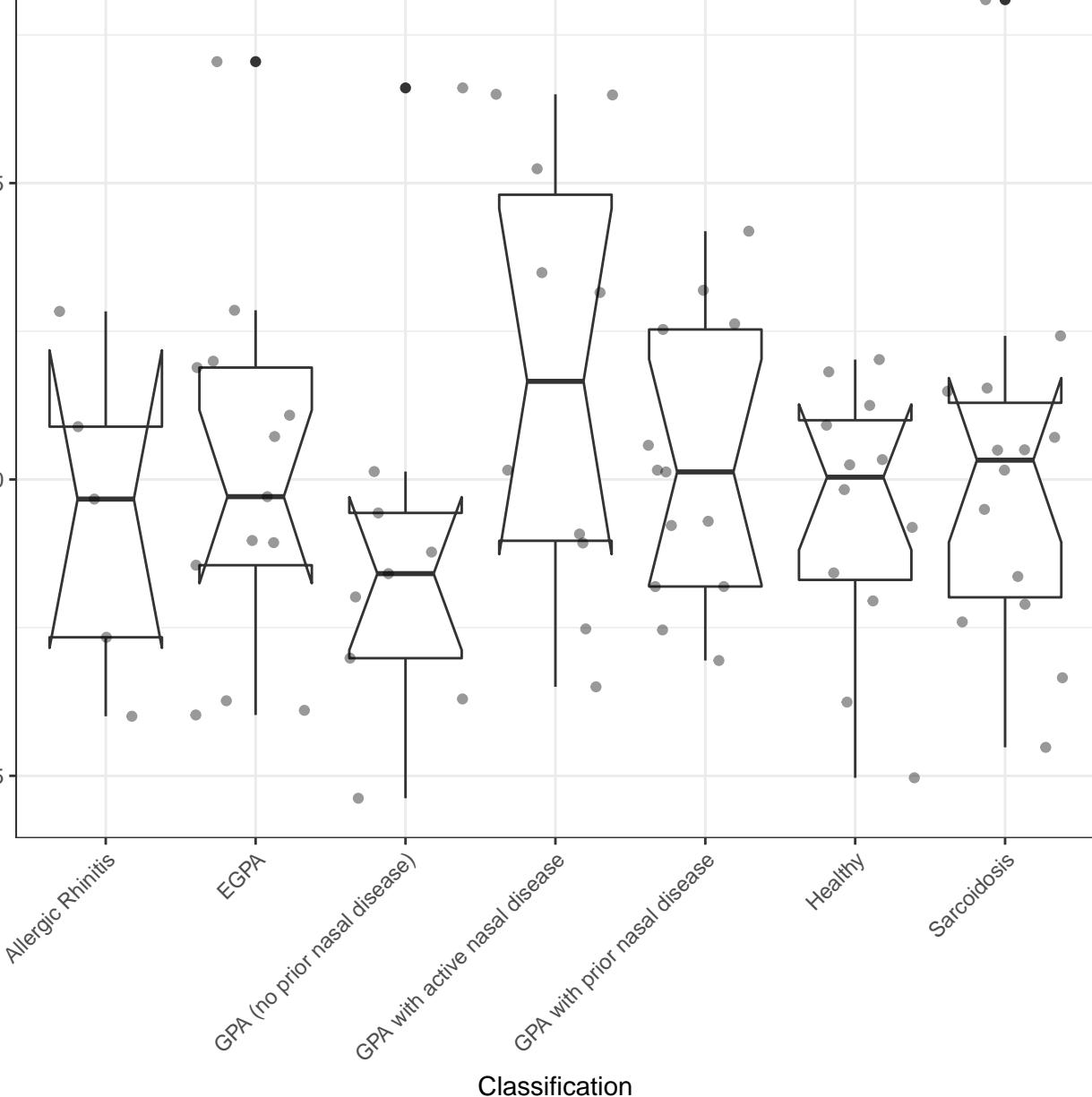
Sarcoidosis

Classification

Value



Value



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

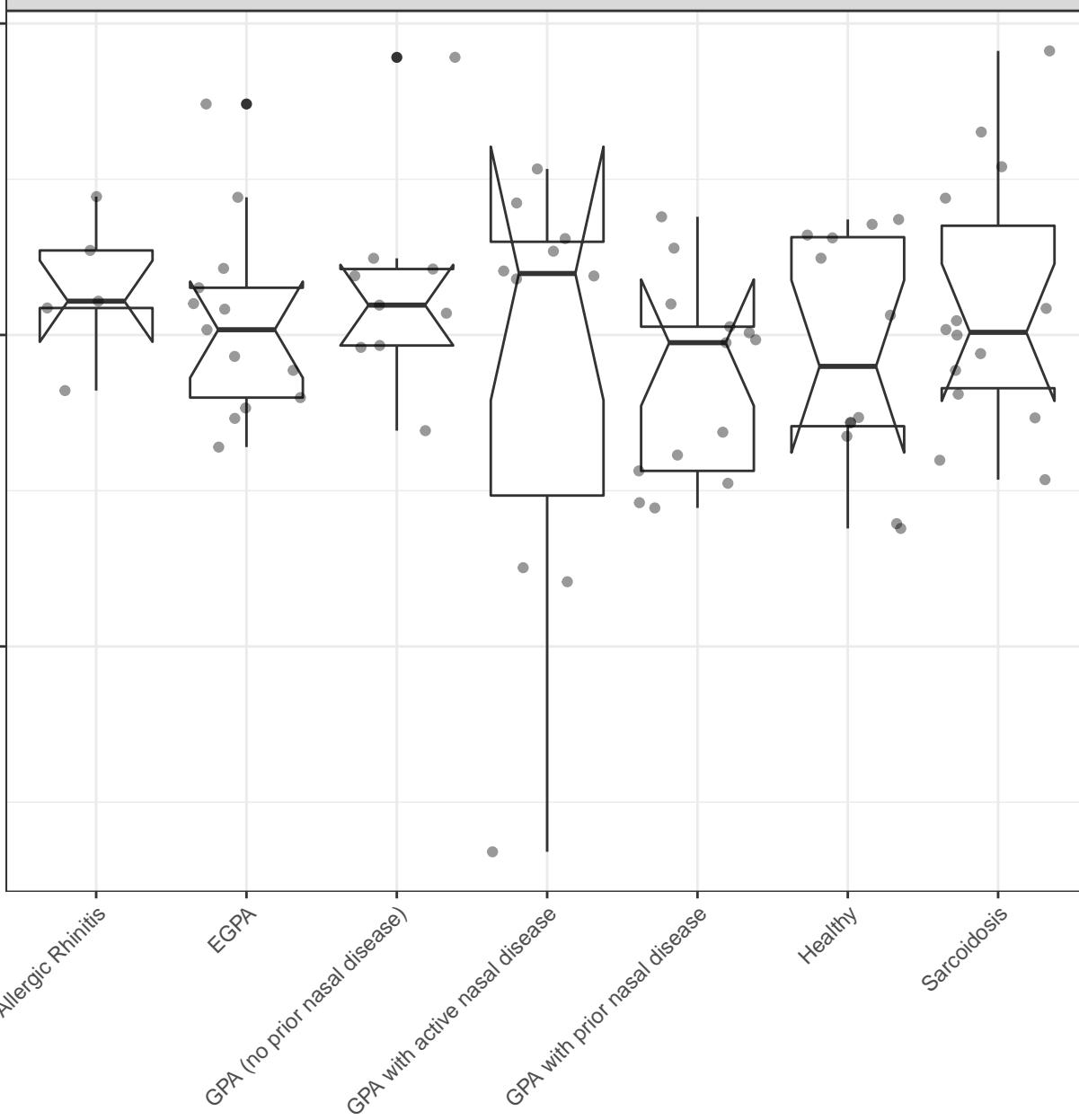
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

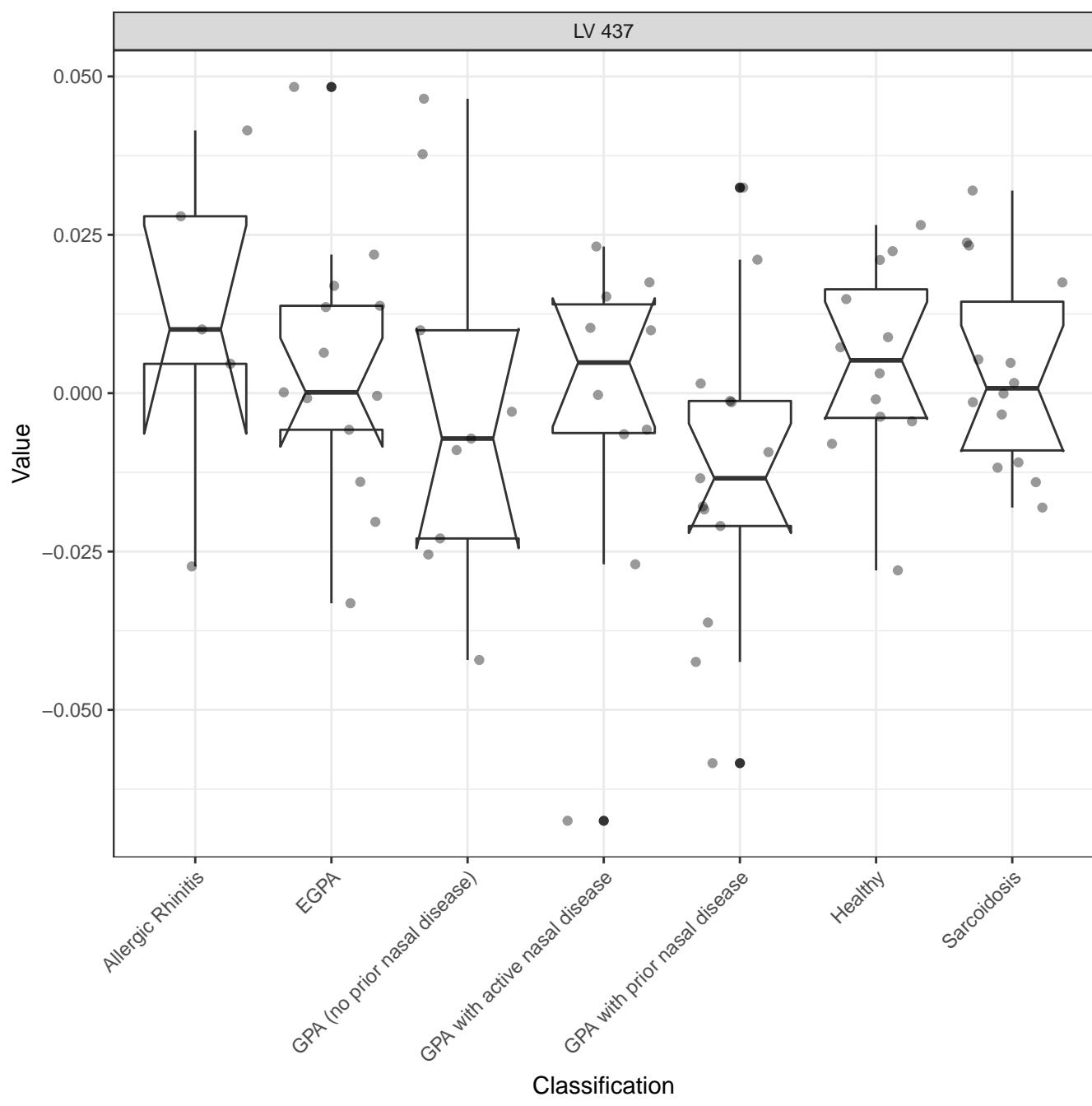
GPA with active nasal disease

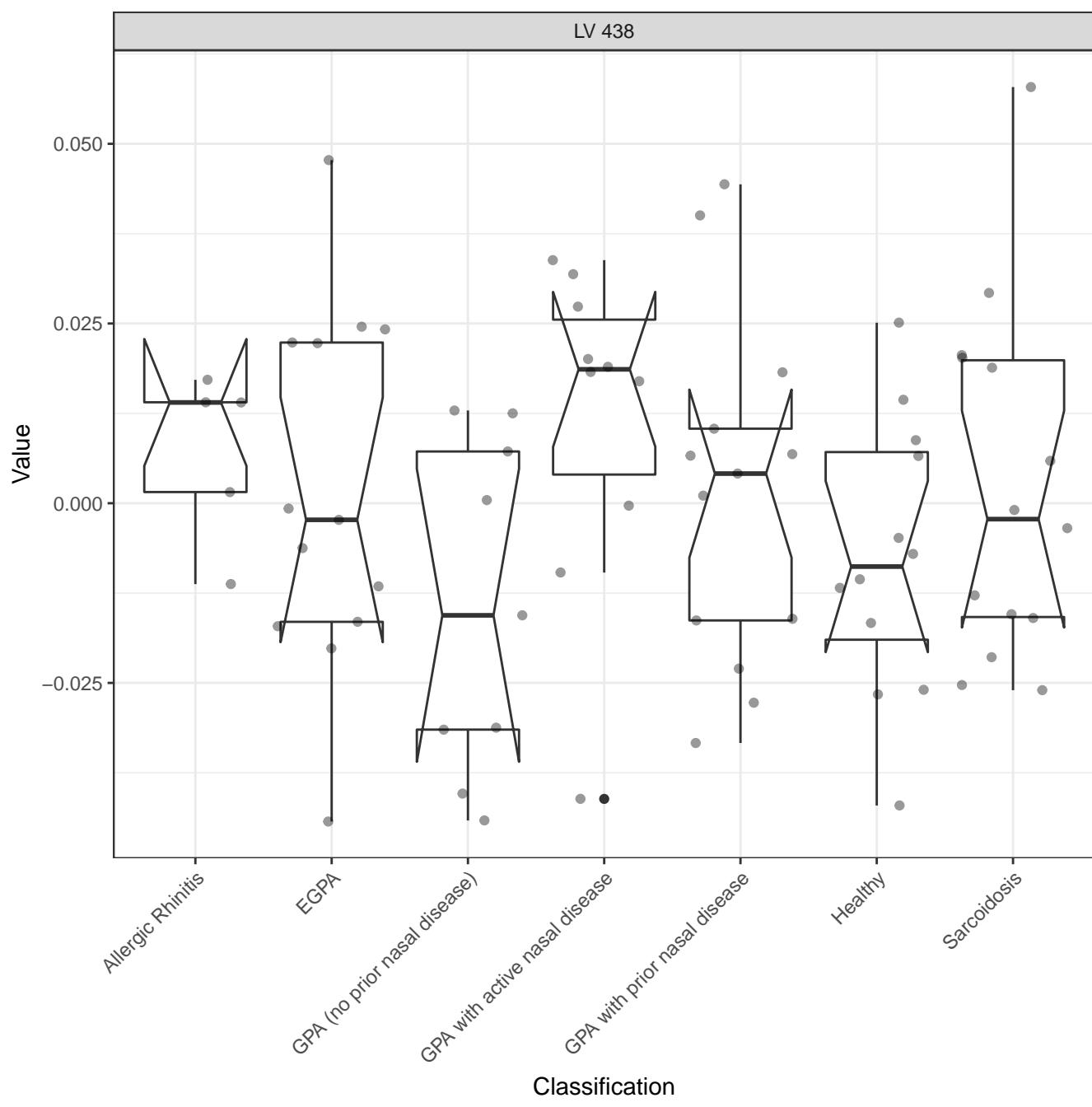
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.00

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

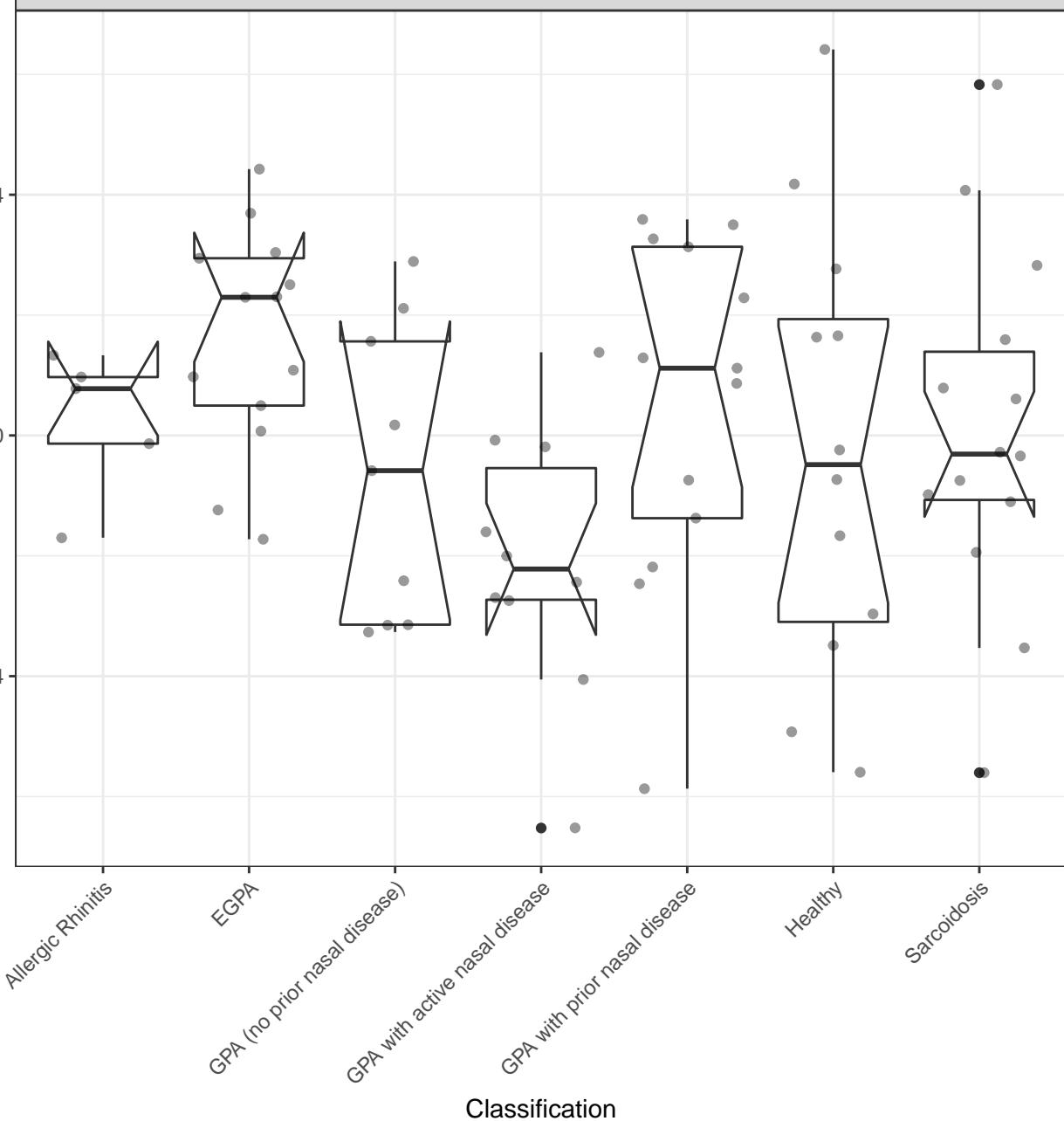
GPA with prior nasal disease

Healthy

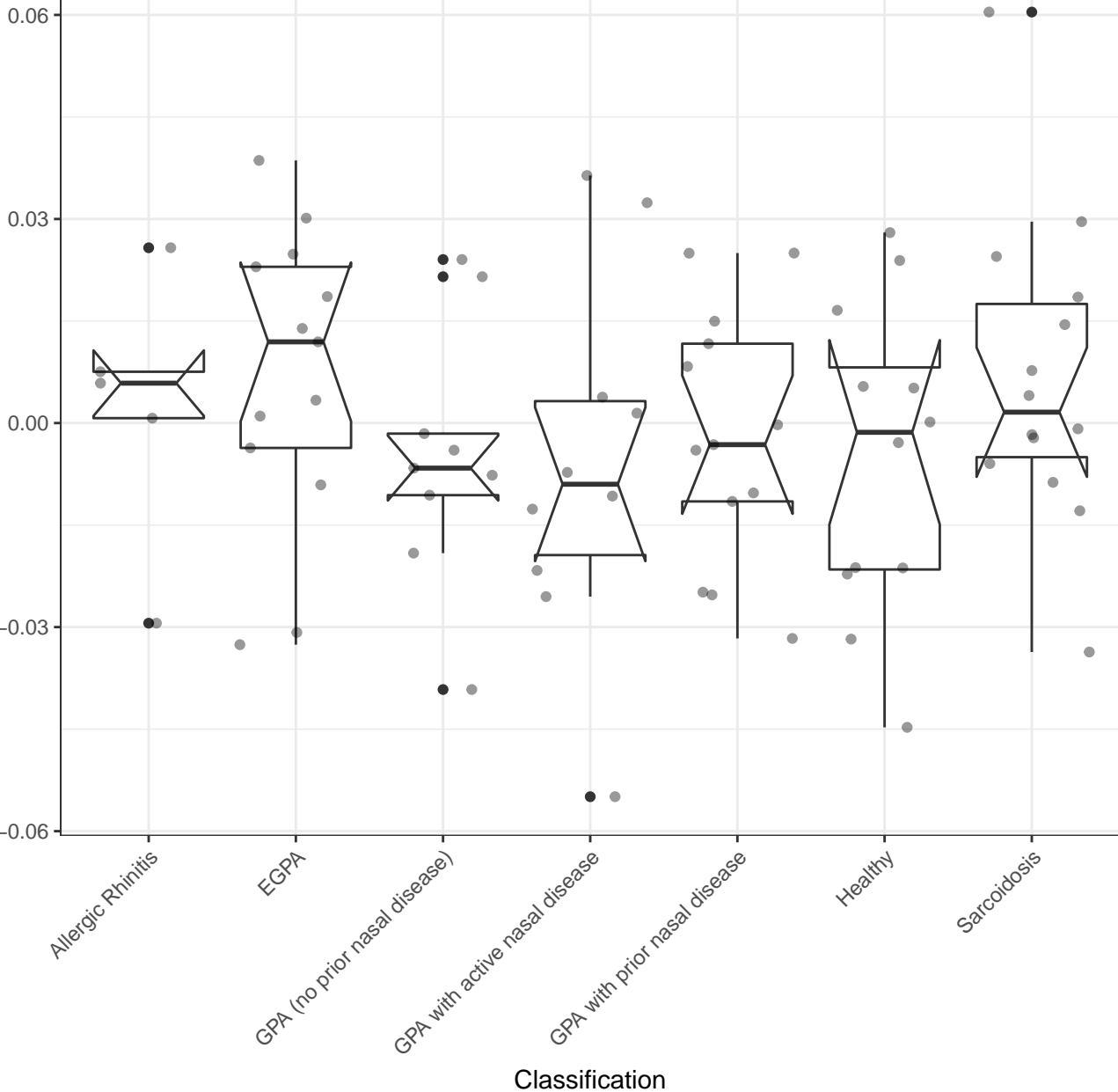
Sarcoidosis

Classification

Value



Value



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

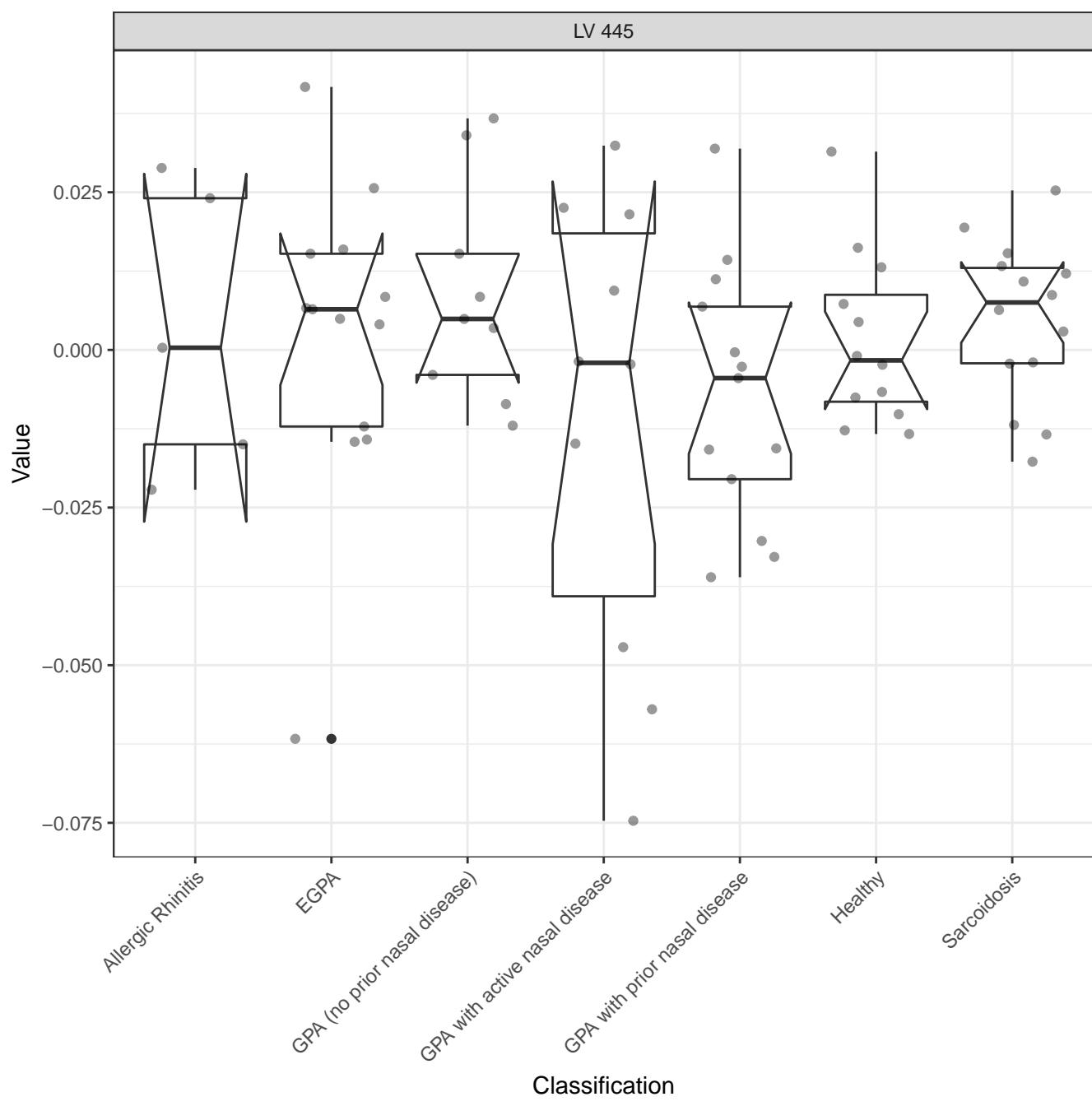
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 447,KEGG\_LYSOSOME

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

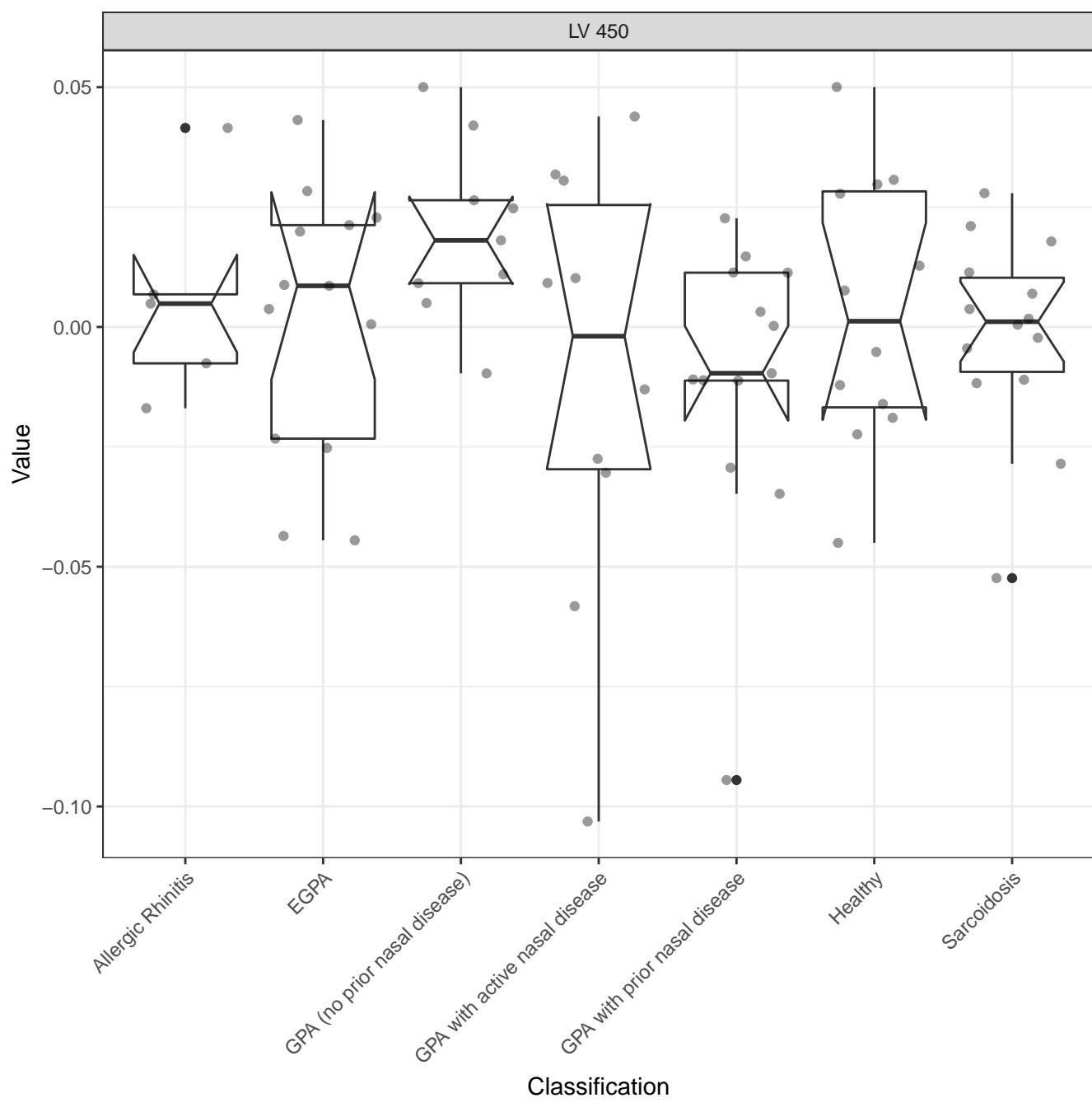
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 451,REACTOME\_MITOCHONDRIAL\_PROTEIN\_IMPORT

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

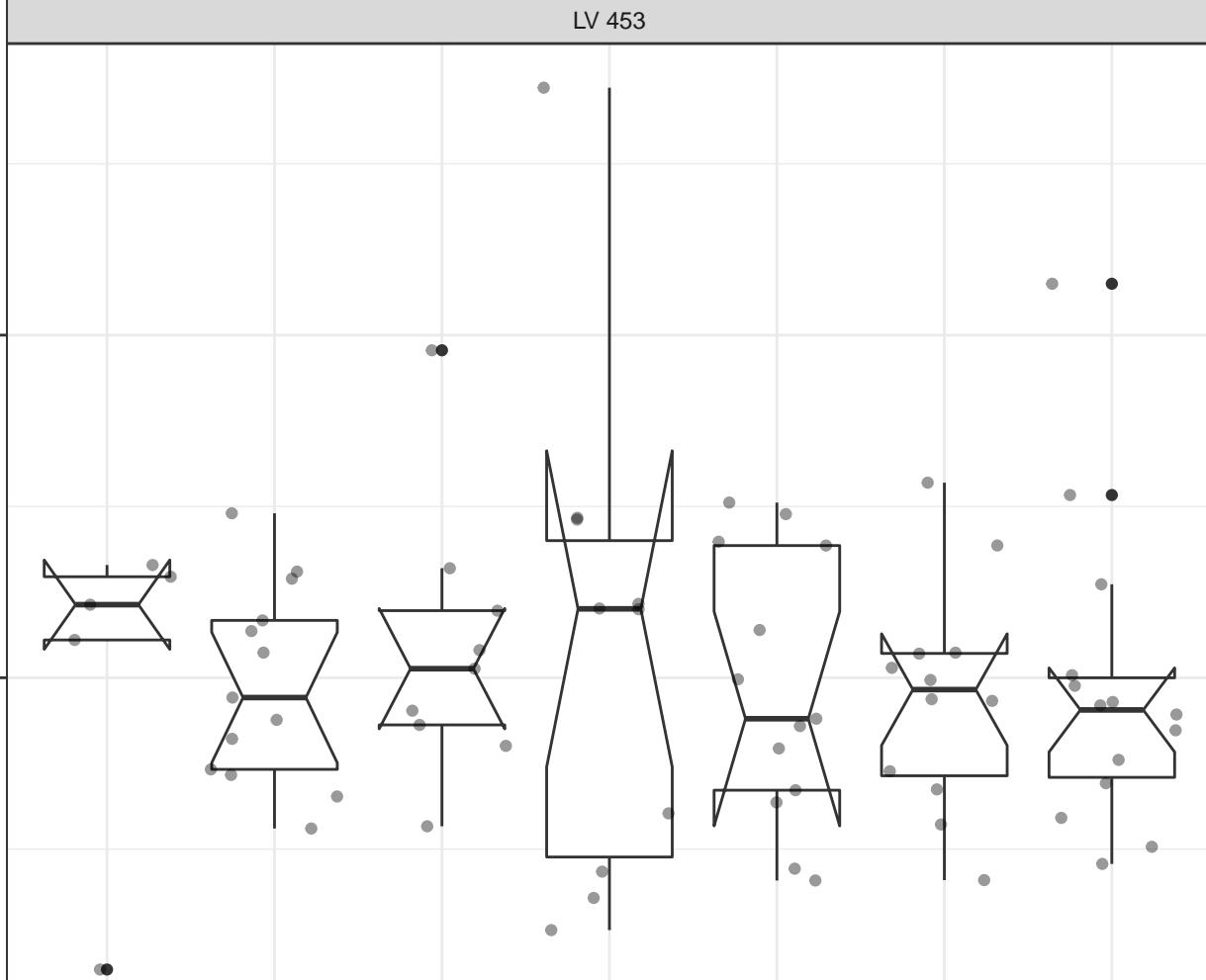
GPA with active nasal disease

GPA with prior nasal disease

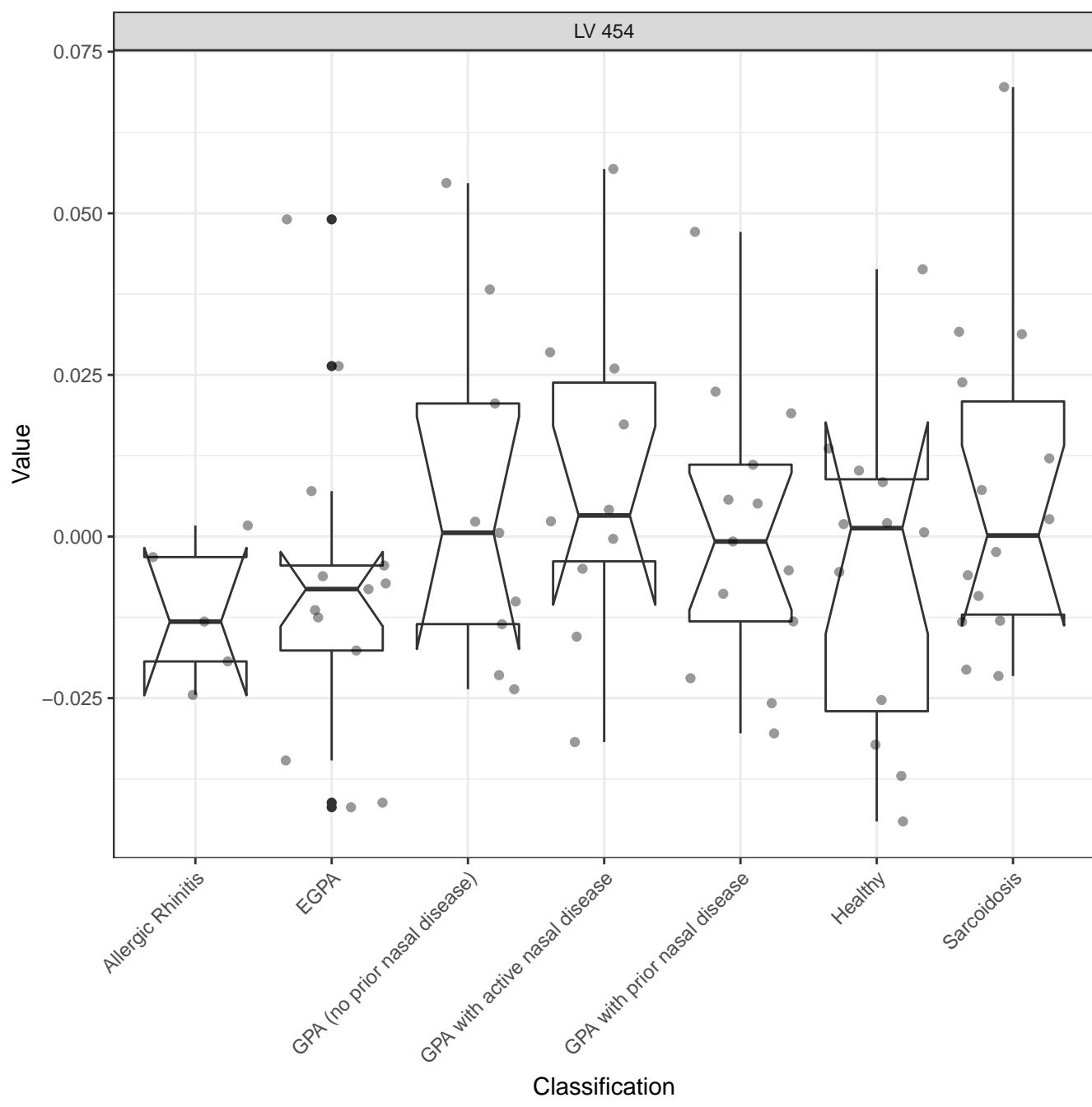
Healthy

Sarcoidosis

Classification



LV 454



Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

0.04

0.00

-0.04

-0.08

-0.12

-

Value

0.06

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

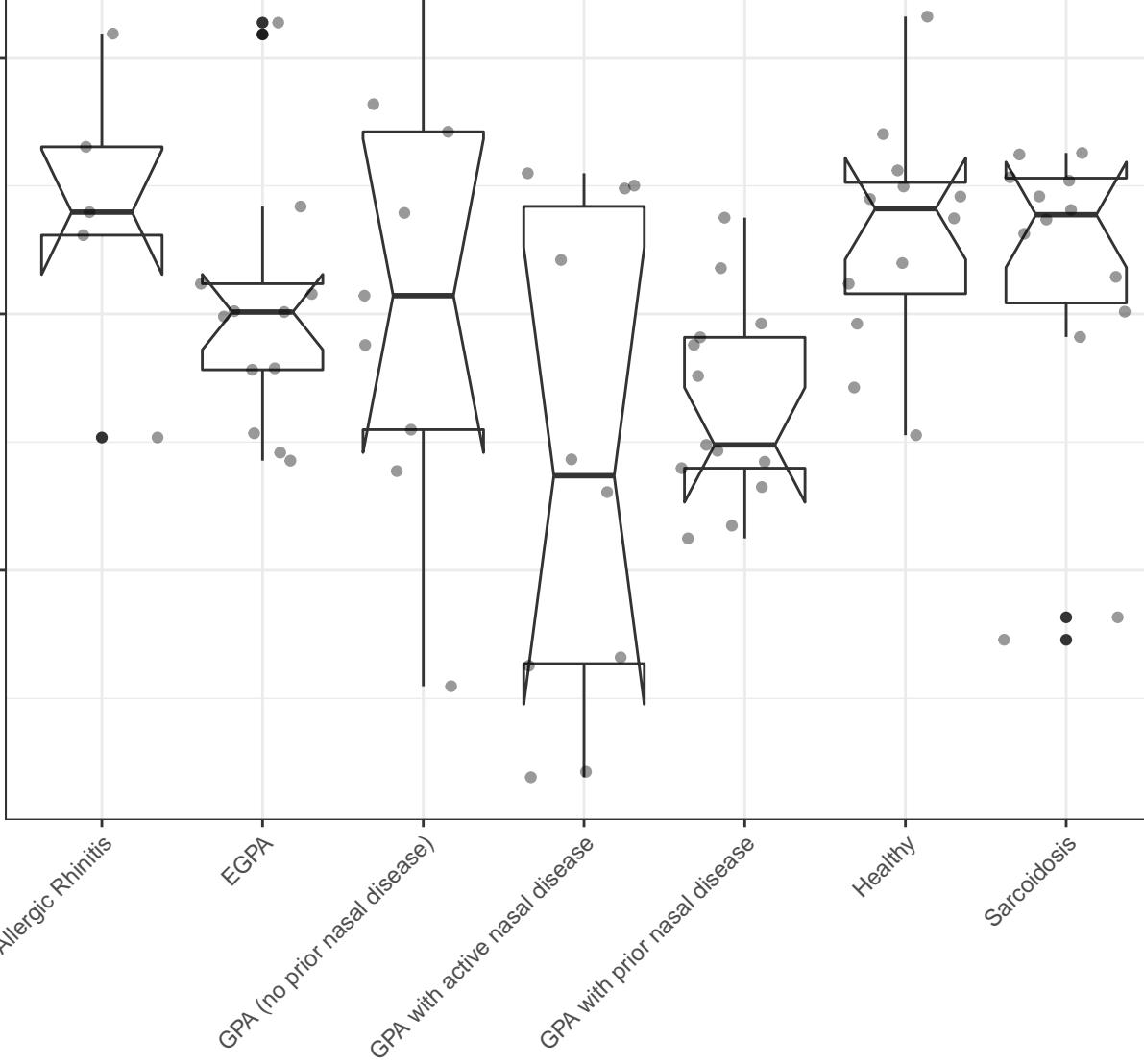
GPA with active nasal disease

Classification

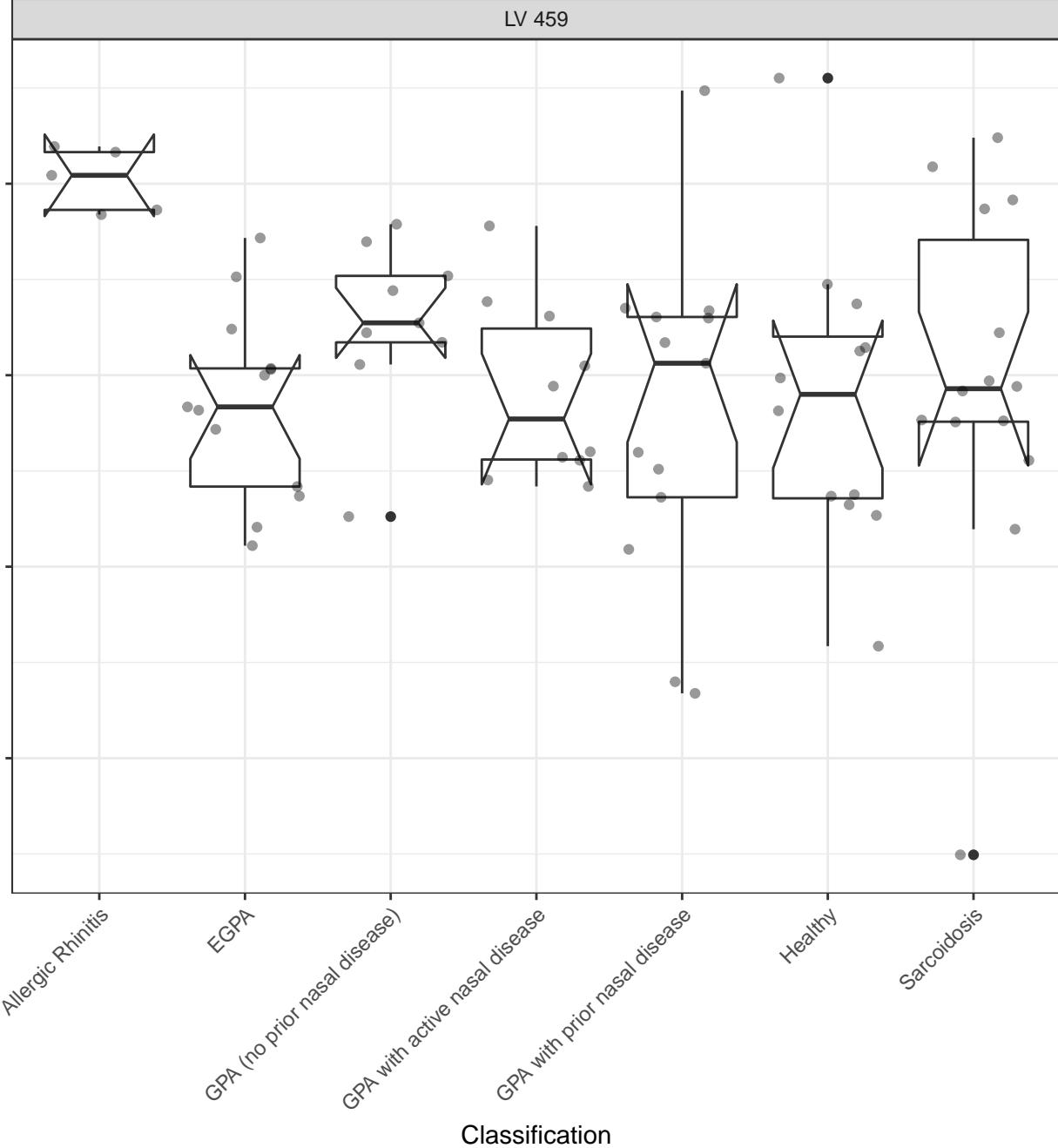
GPA with prior nasal disease

Healthy

Sarcoidosis



Value



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

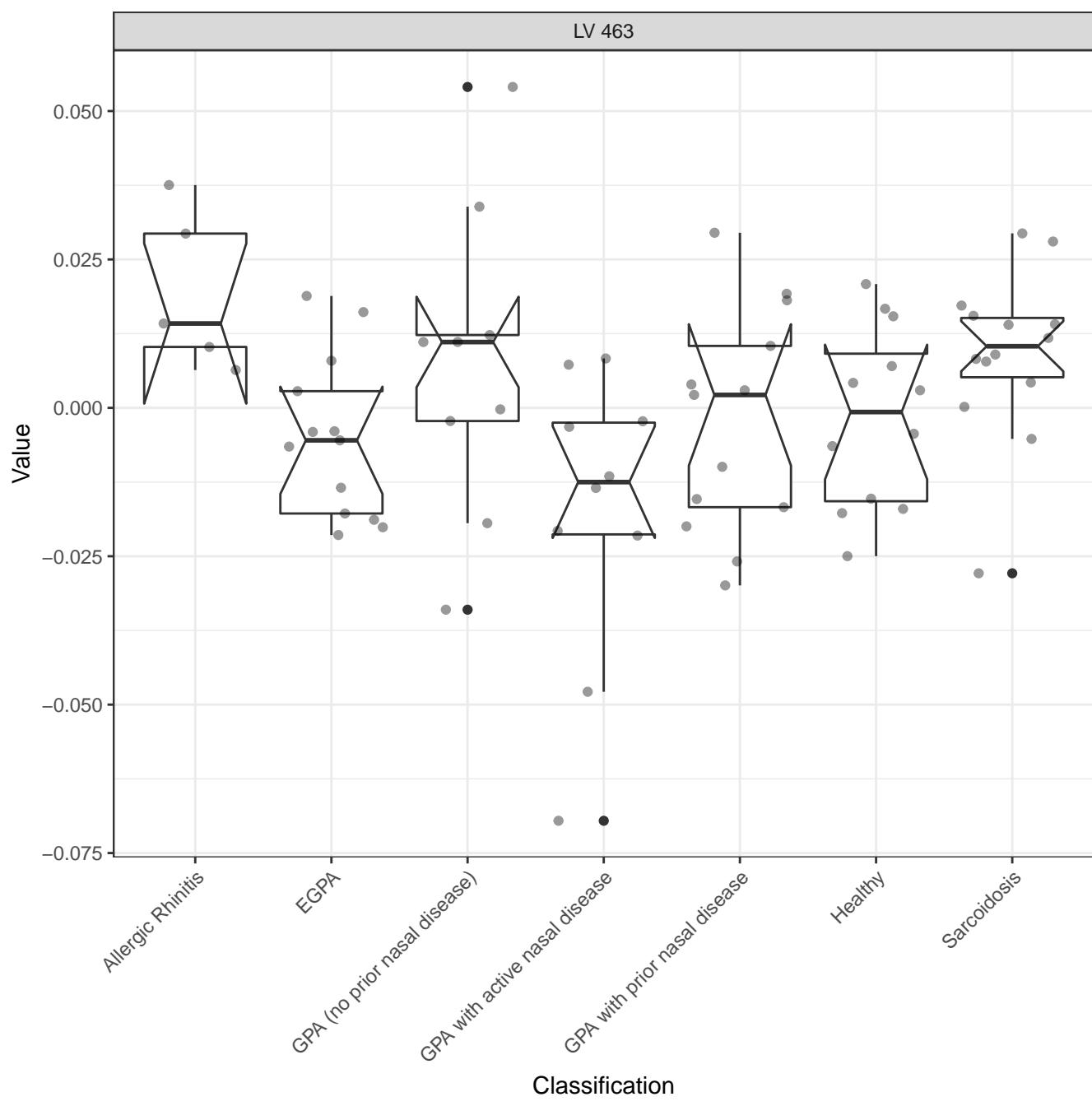
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

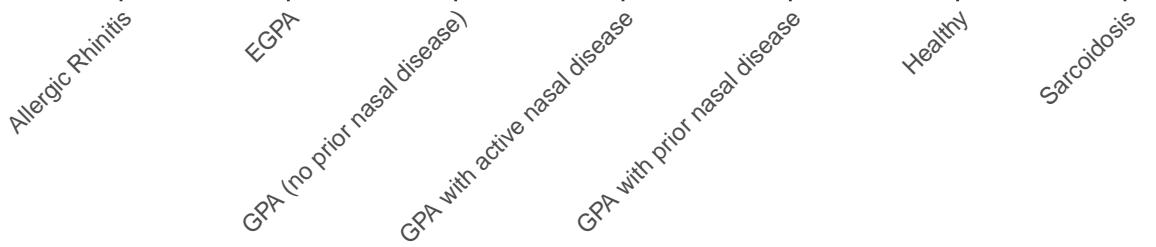


Value

0.05

0.00

-0.05



Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

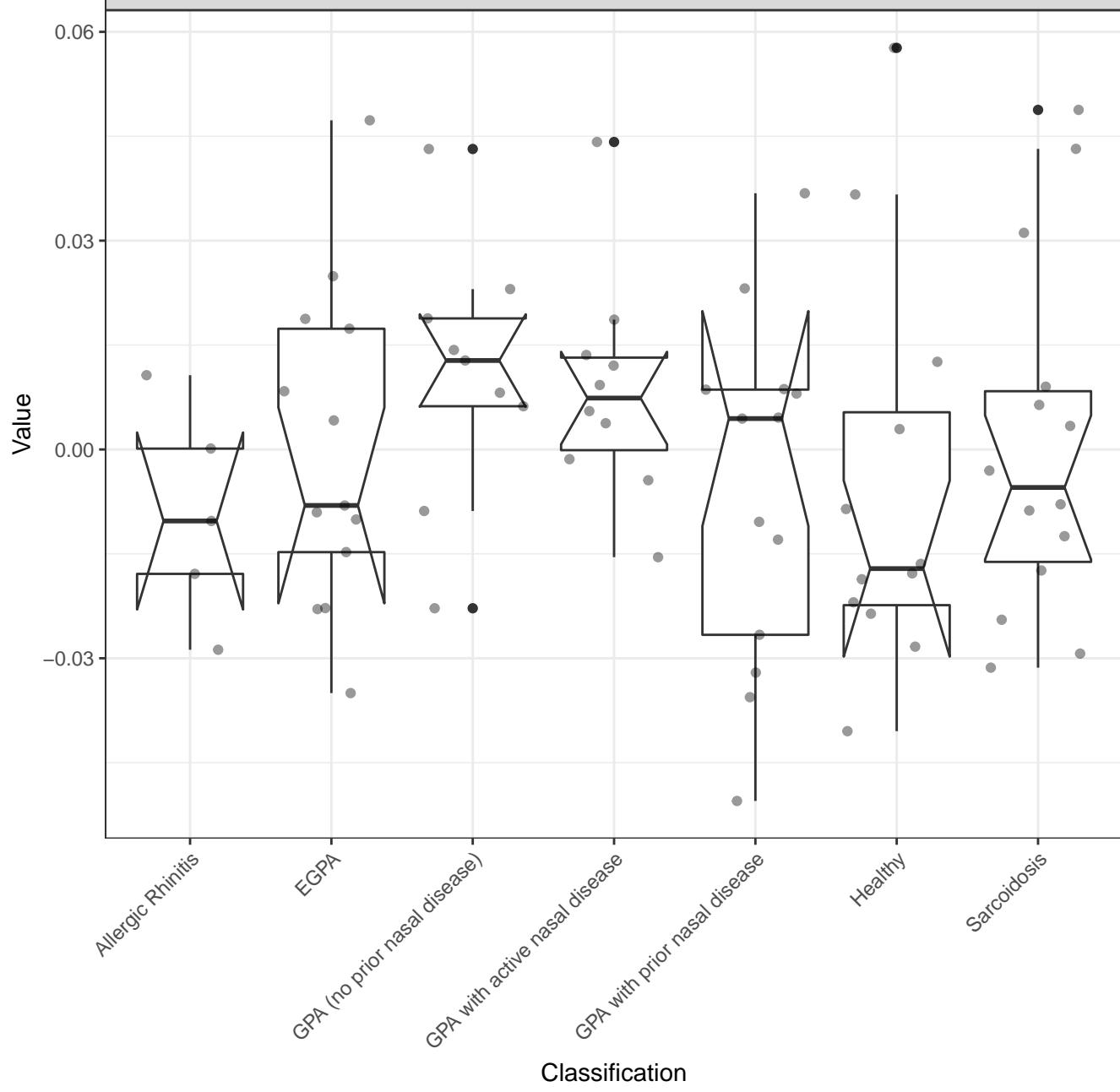
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

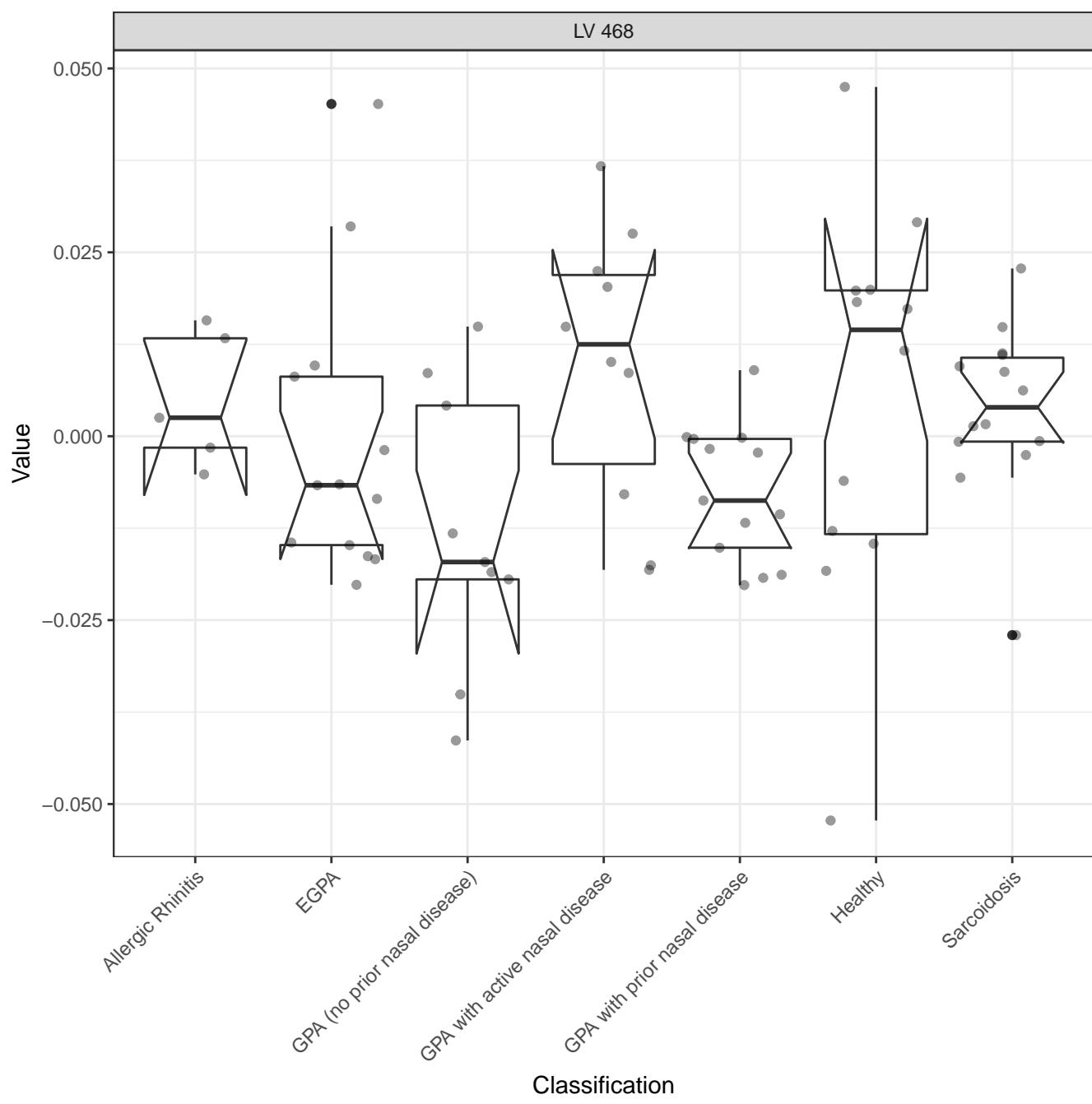
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 468



Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

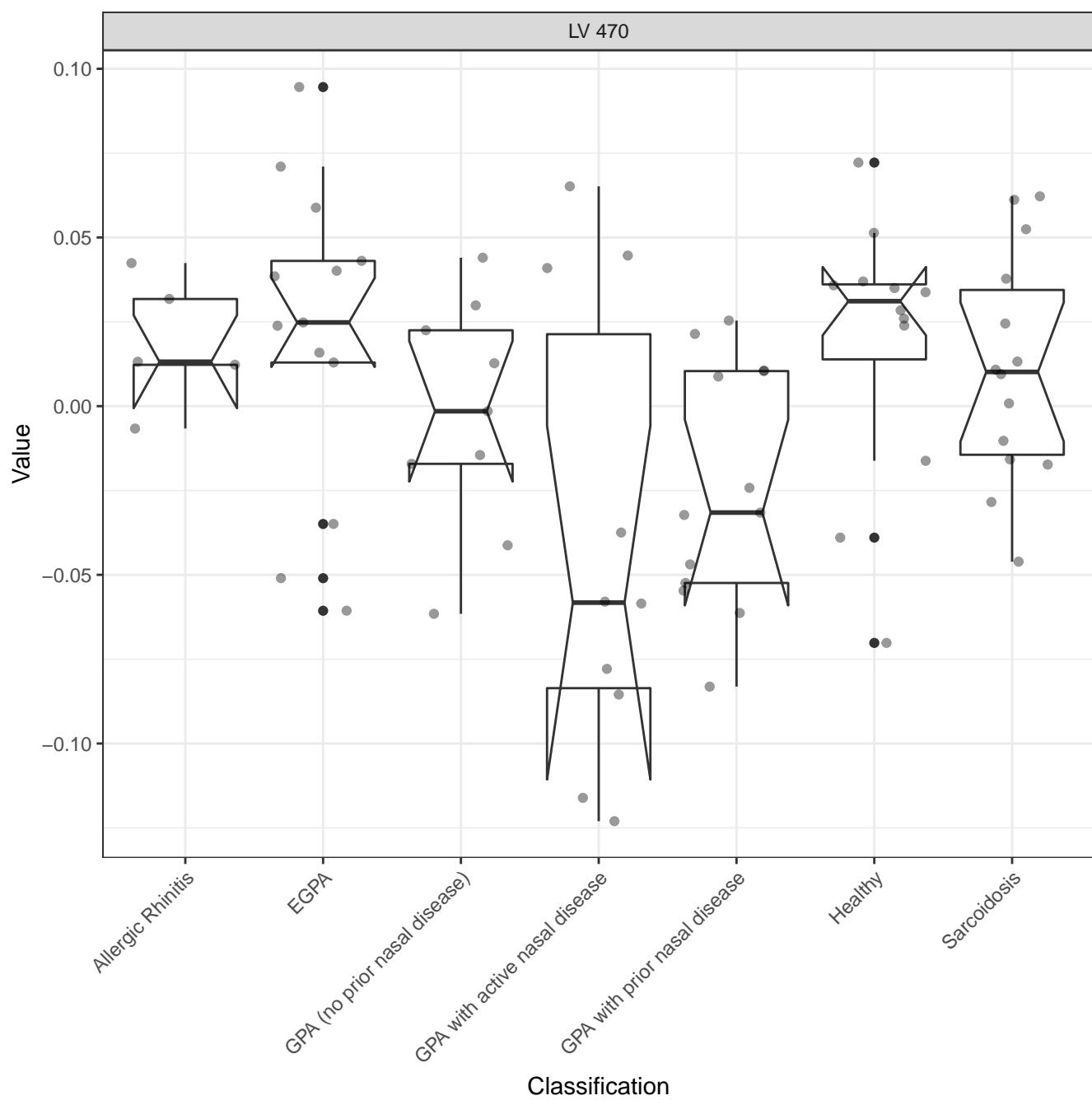
GPA with active nasal disease

GPA with prior nasal disease

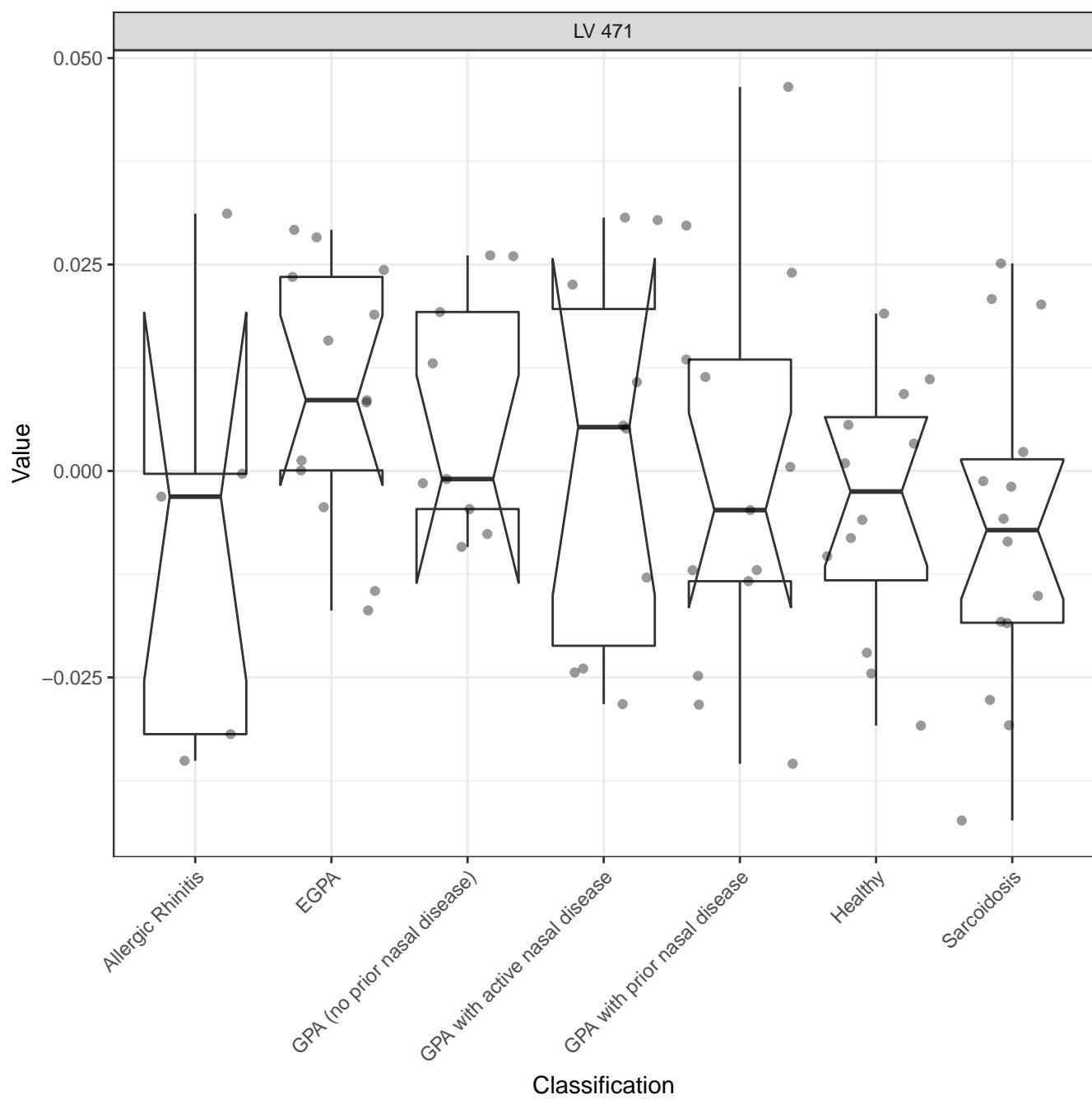
Healthy

Sarcoidosis

Classification



LV 471



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.050

0.025

0.000

-0.025

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.02

-0.02

-0.04

EGPA

Allergic Rhinitis

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

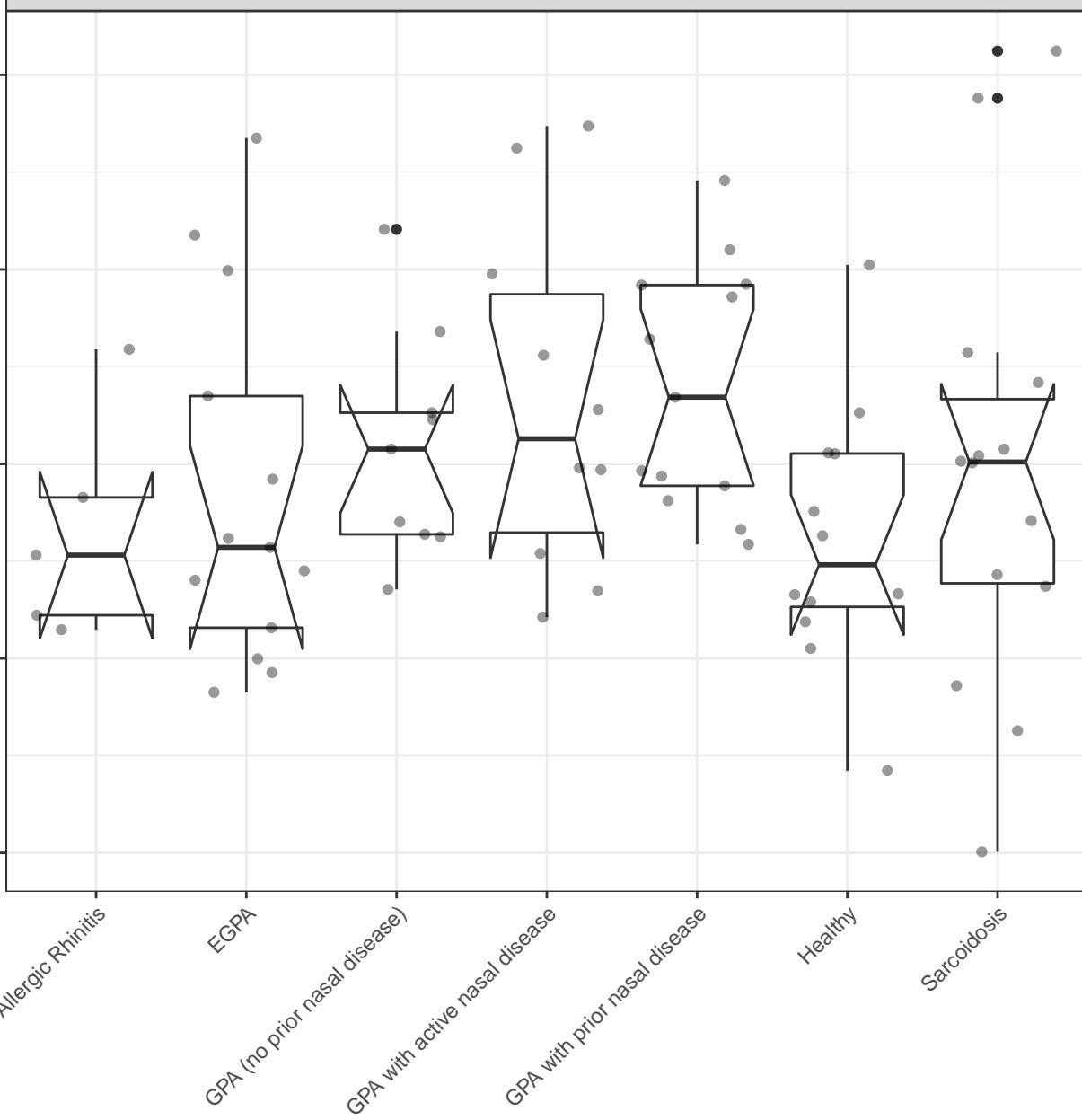
GPA with active nasal disease

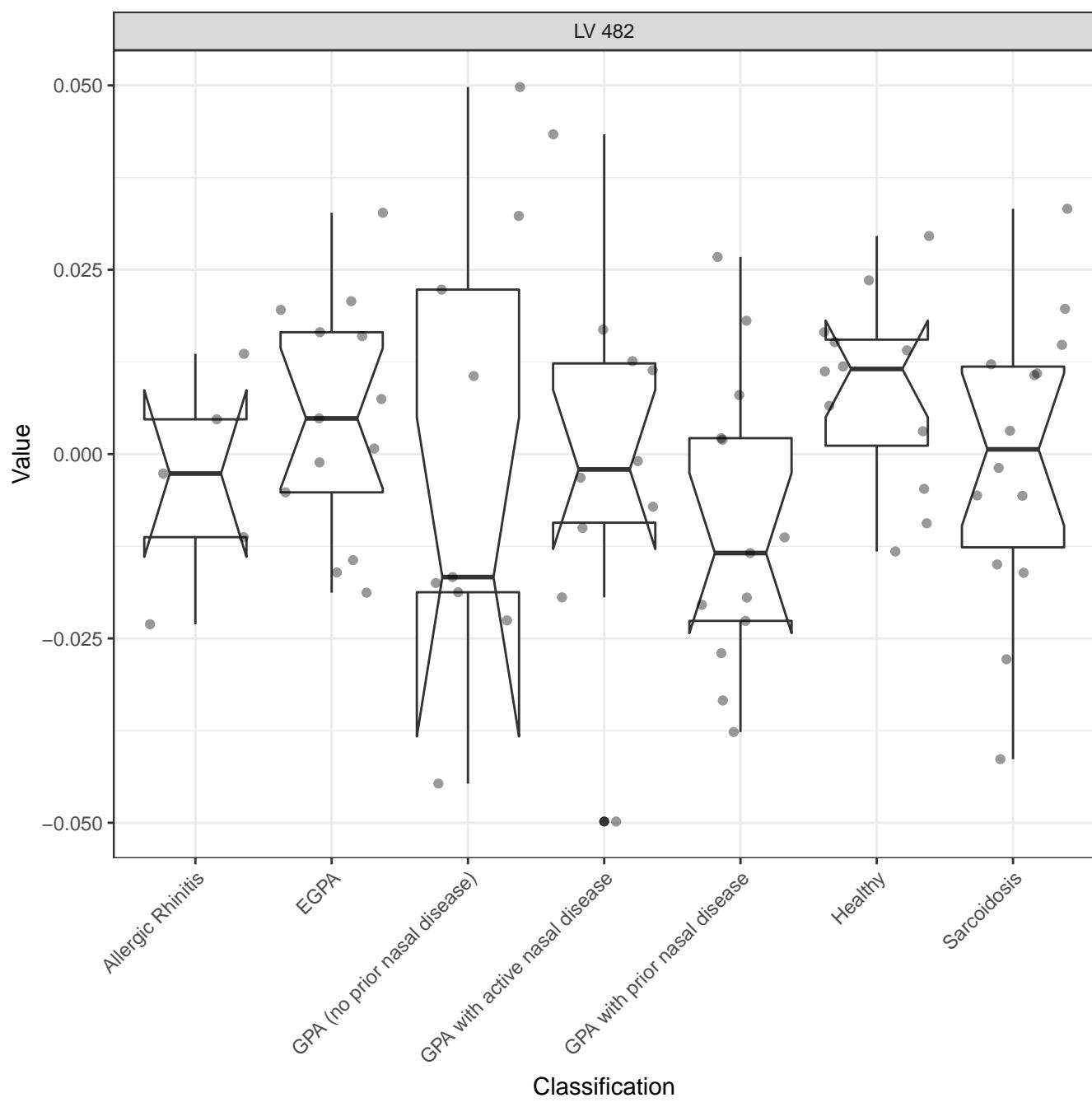
GPA with prior nasal disease

Healthy

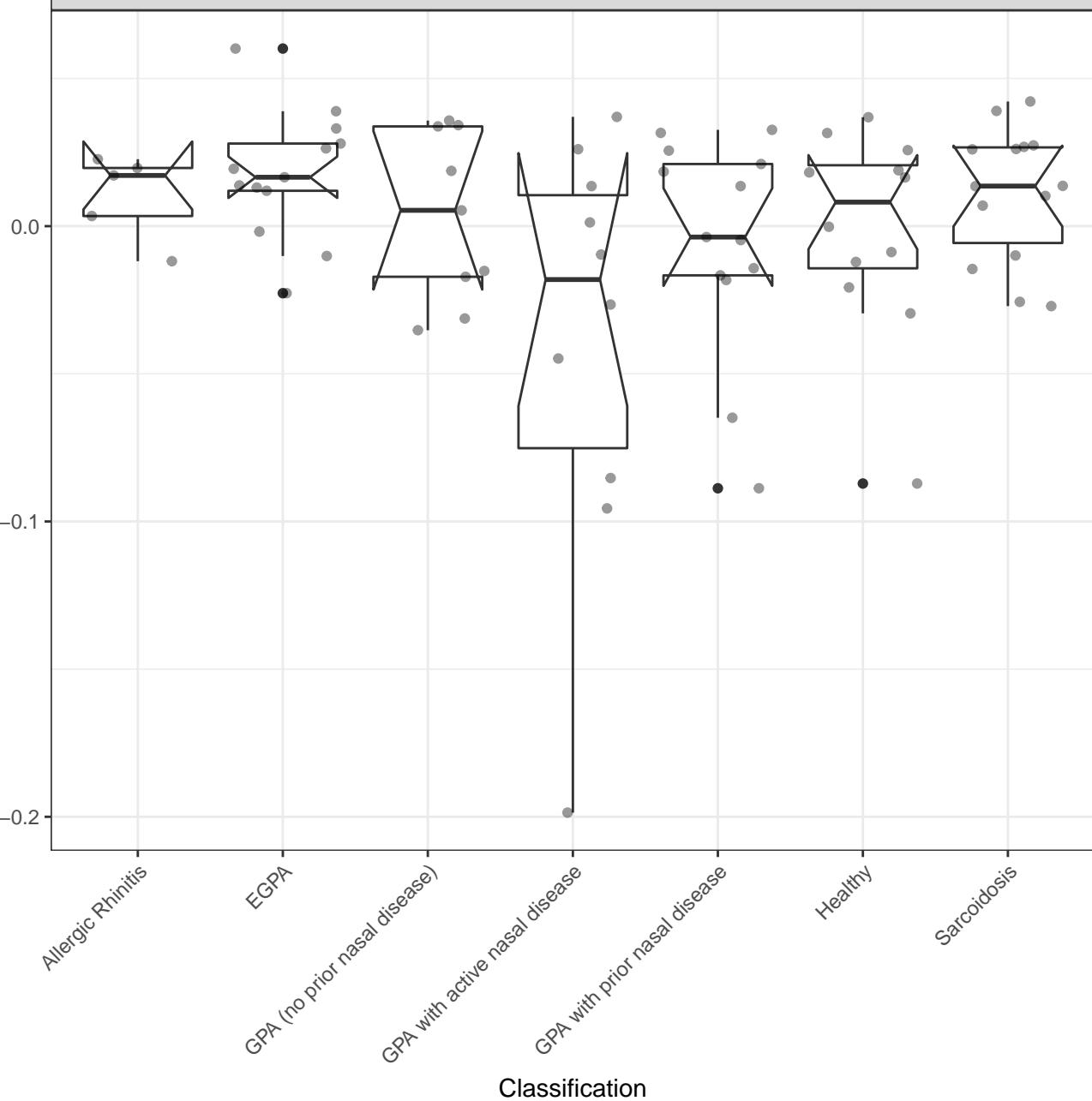
Sarcoidosis

Classification





Value



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

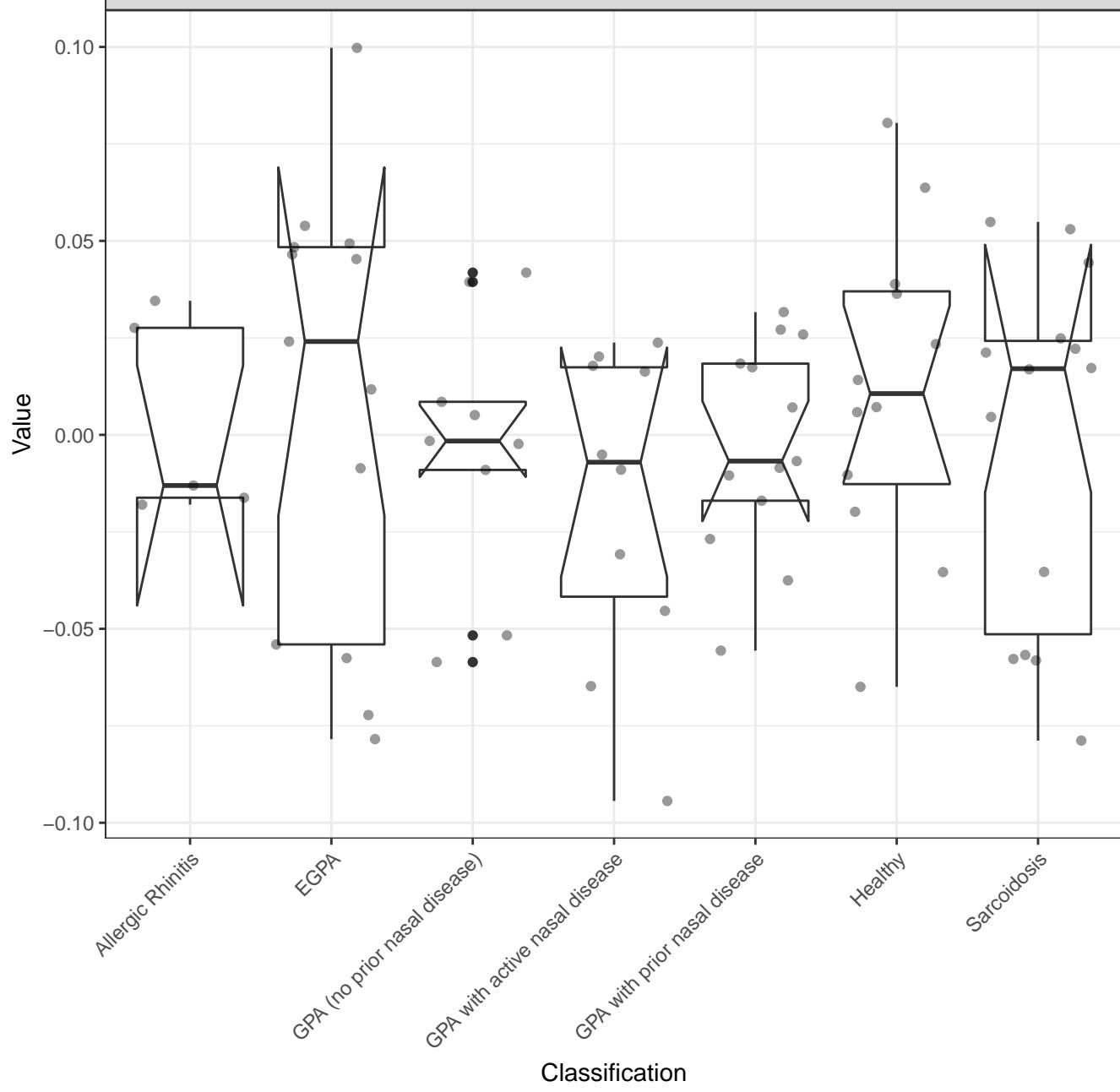
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## LV 486



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

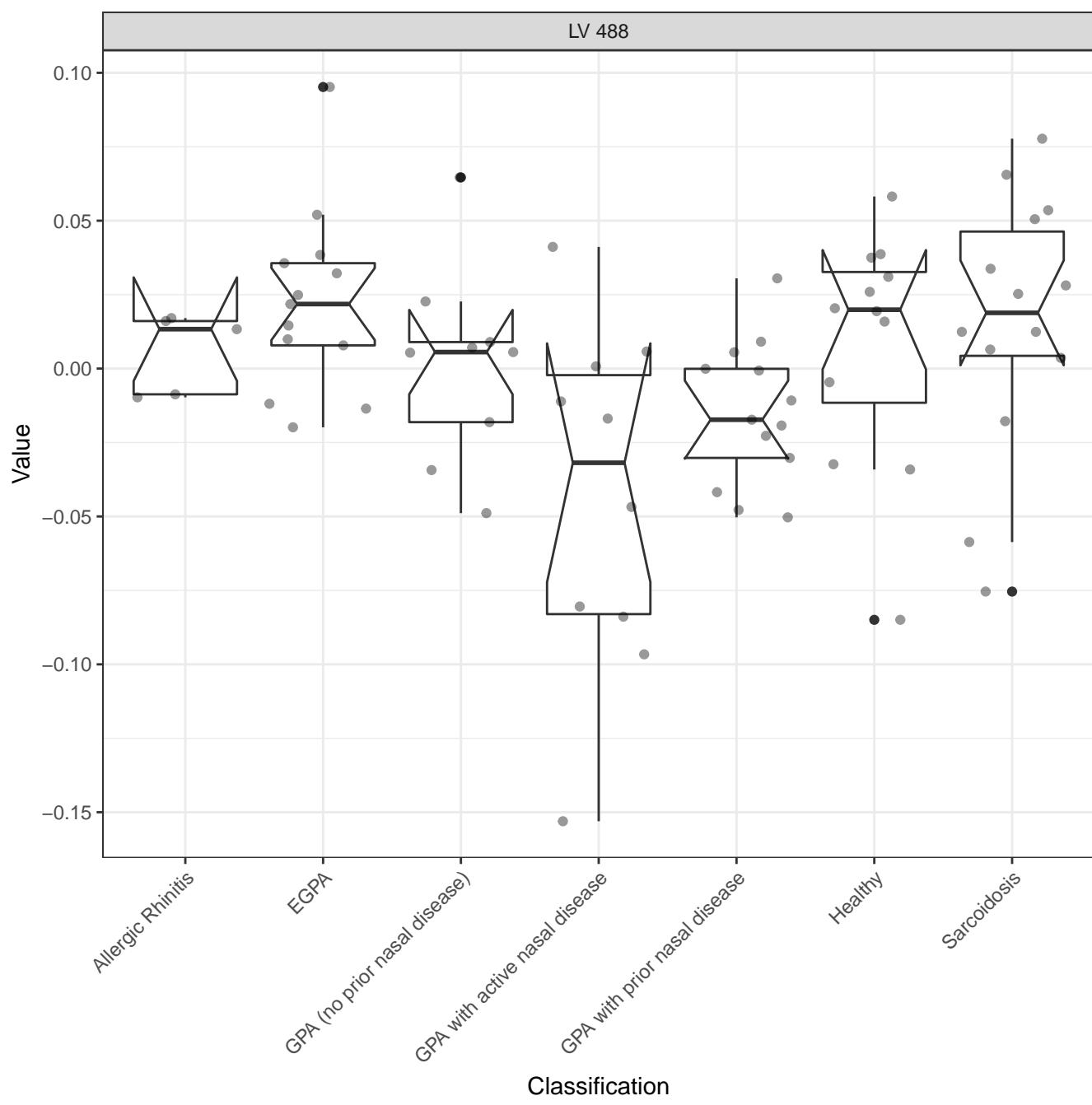
GPA with active nasal disease

GPA with prior nasal disease

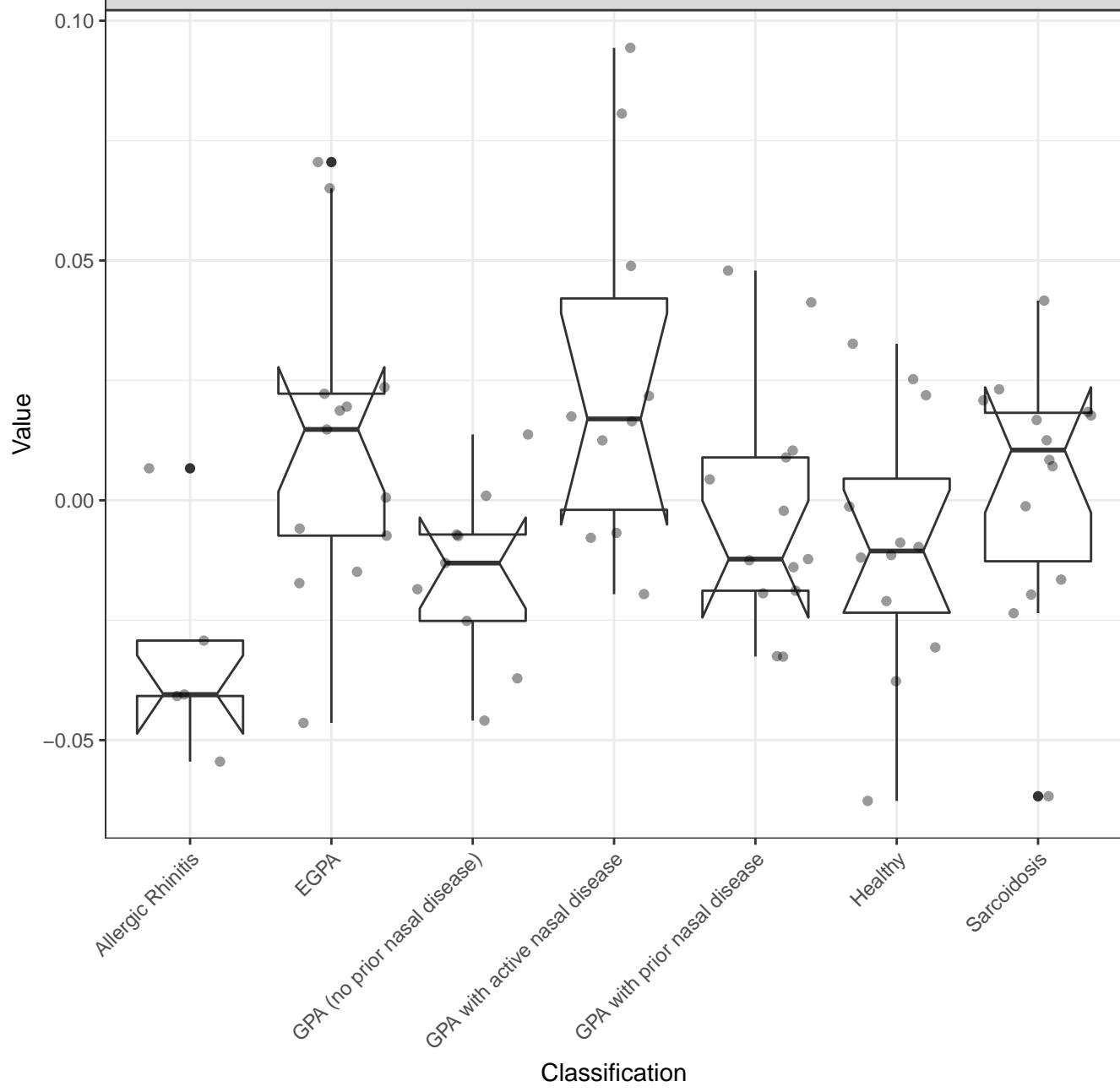
Healthy

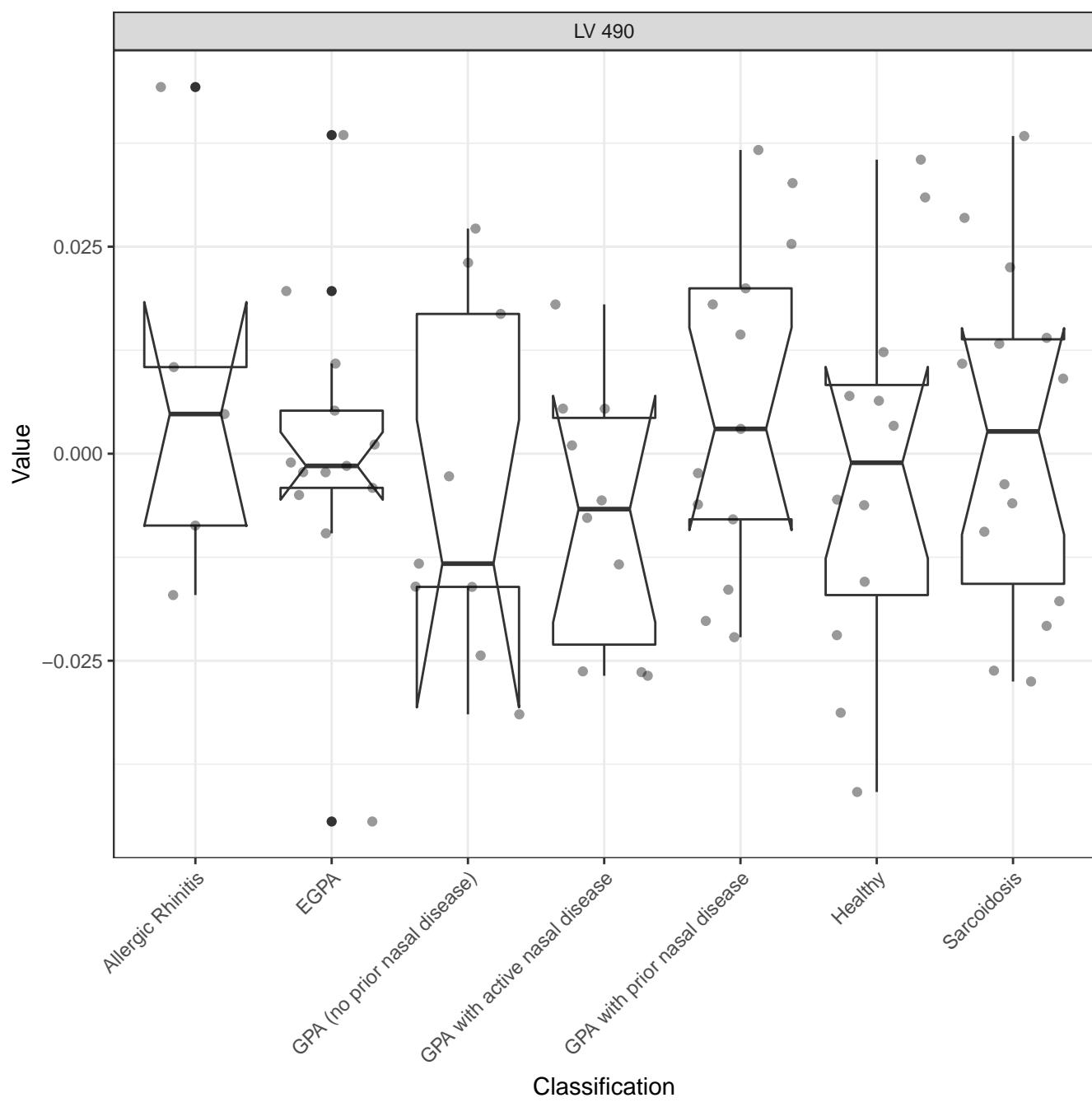
Sarcoidosis

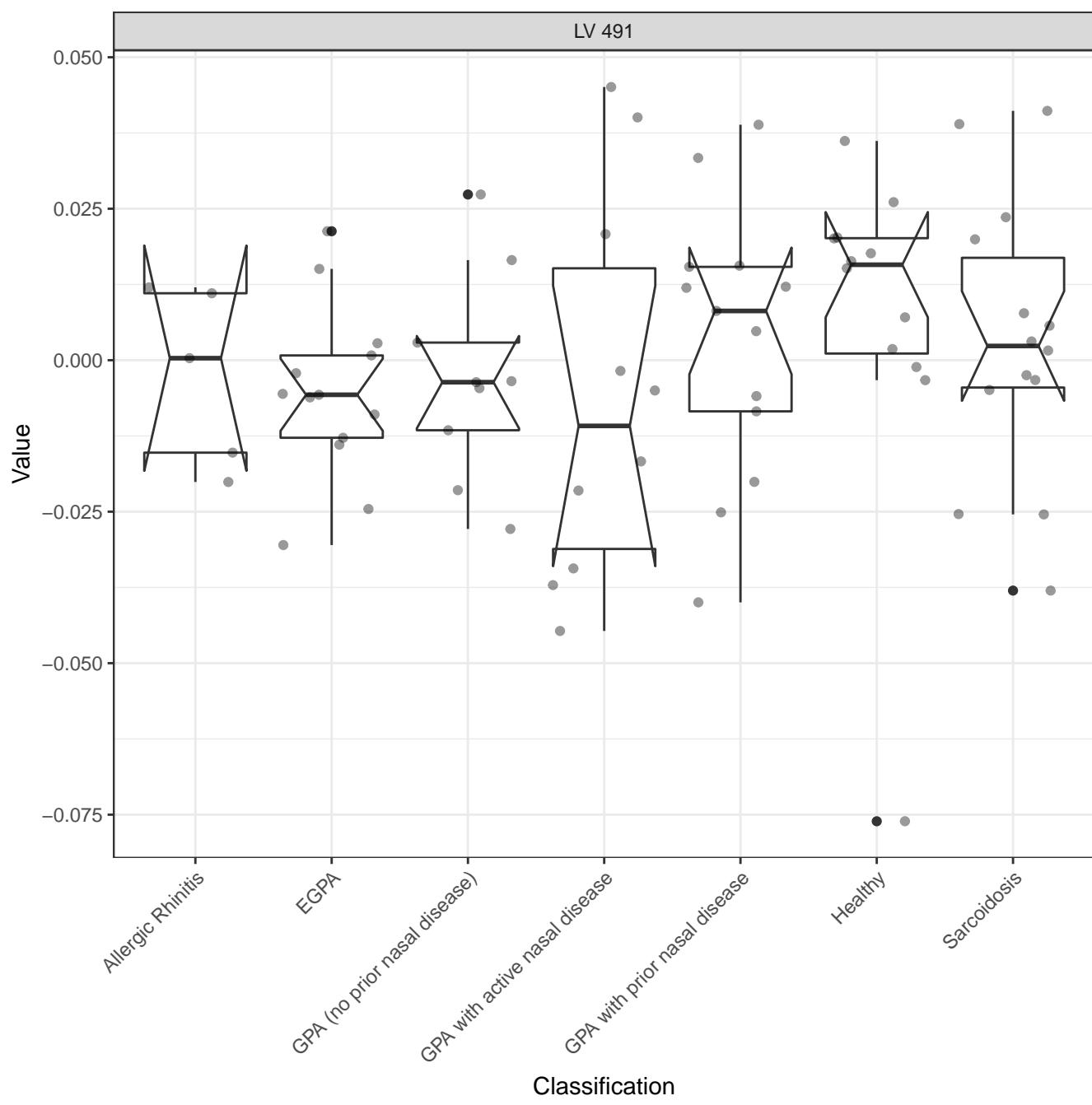
Classification



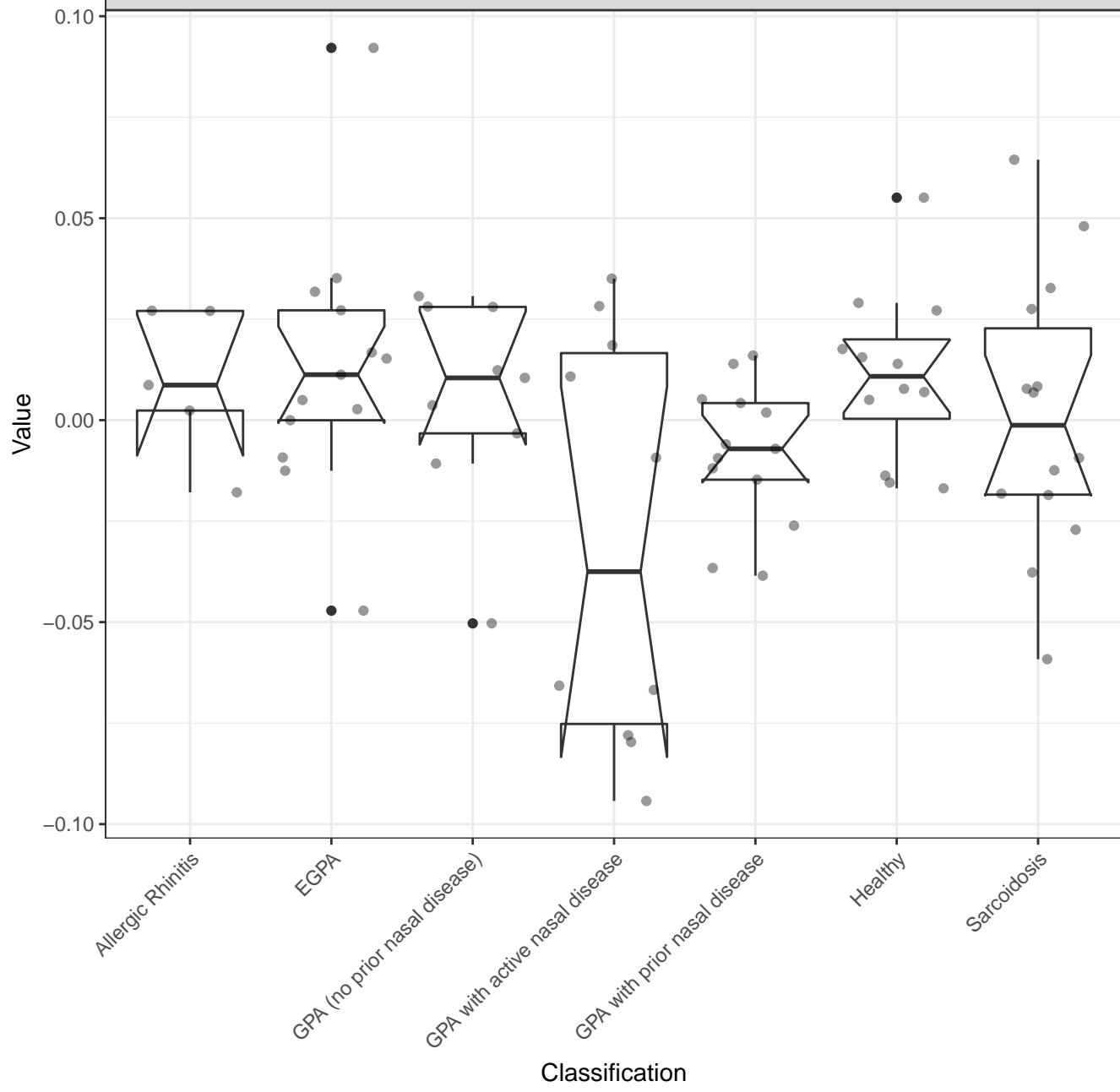
LV 489







LV 492



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

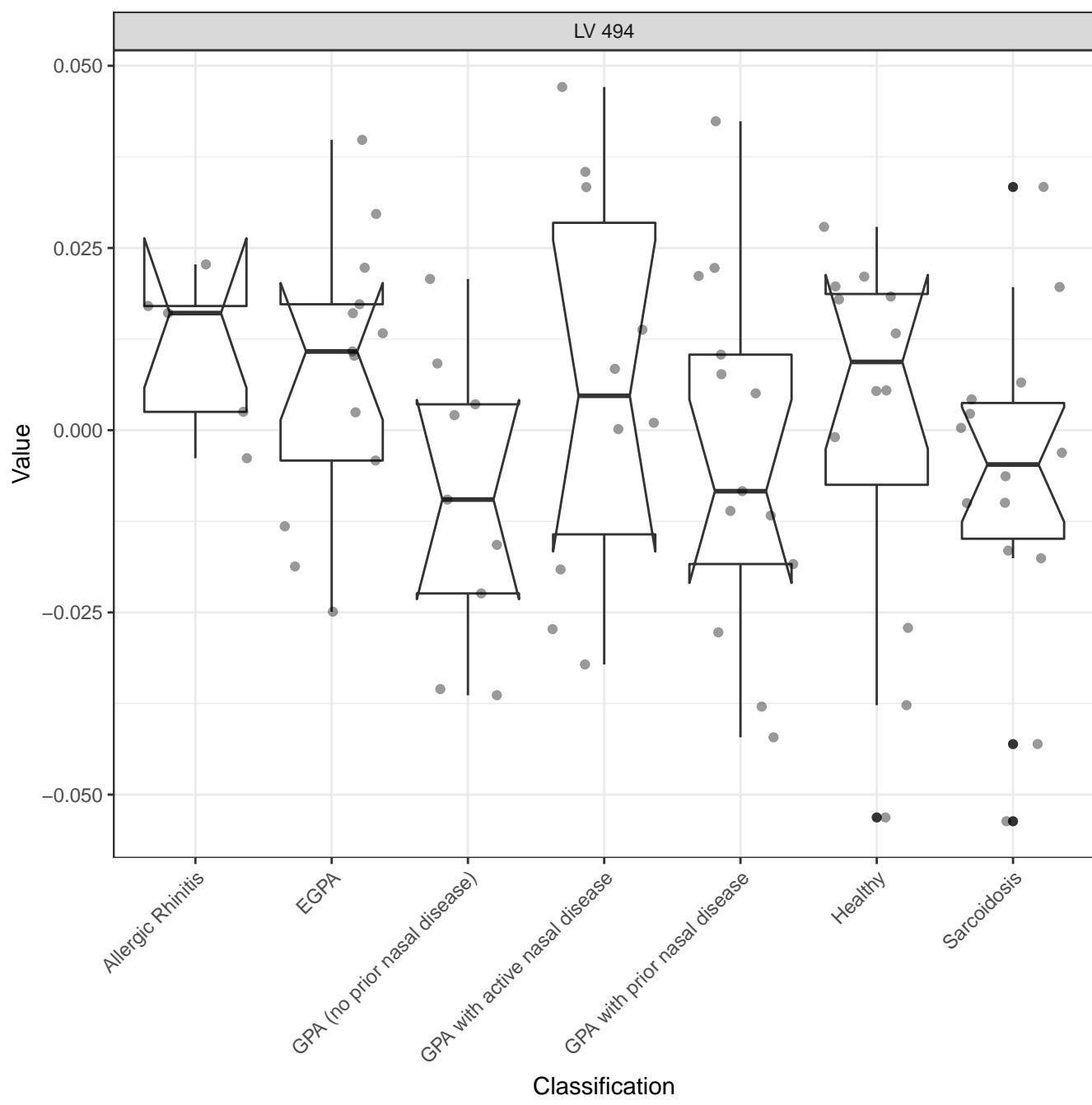
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

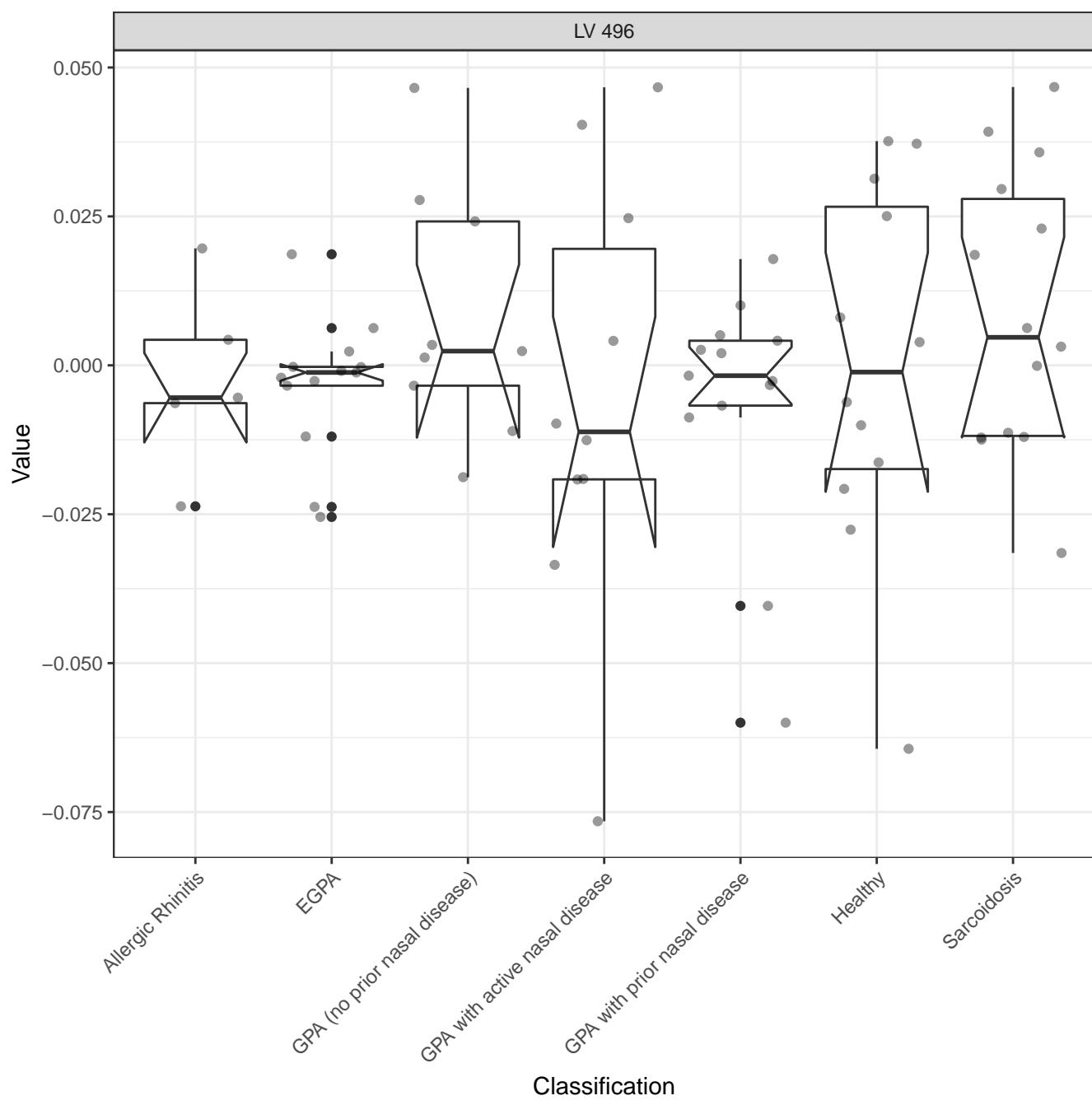
GPA with prior nasal disease

Healthy

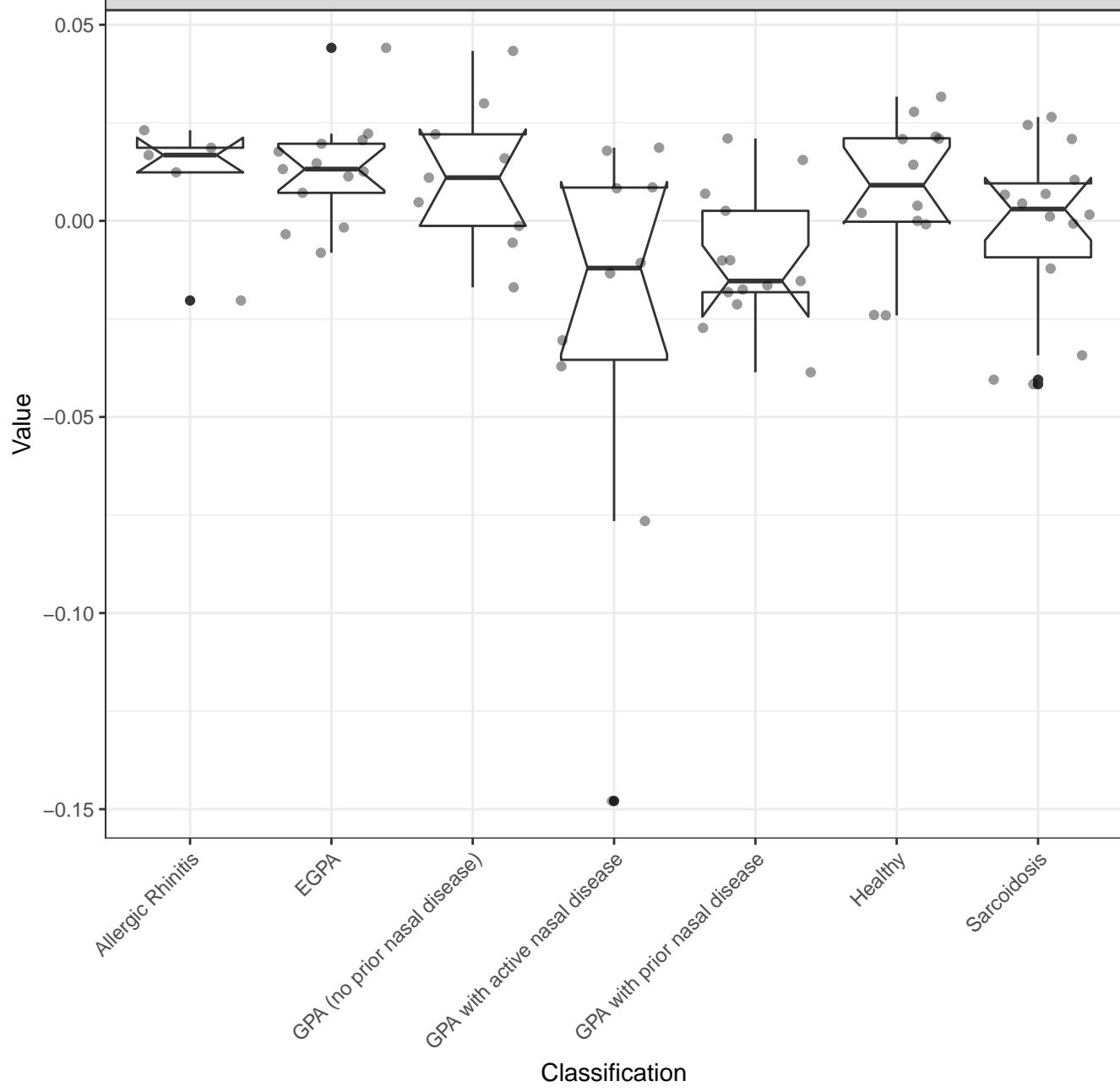
Sarcoidosis

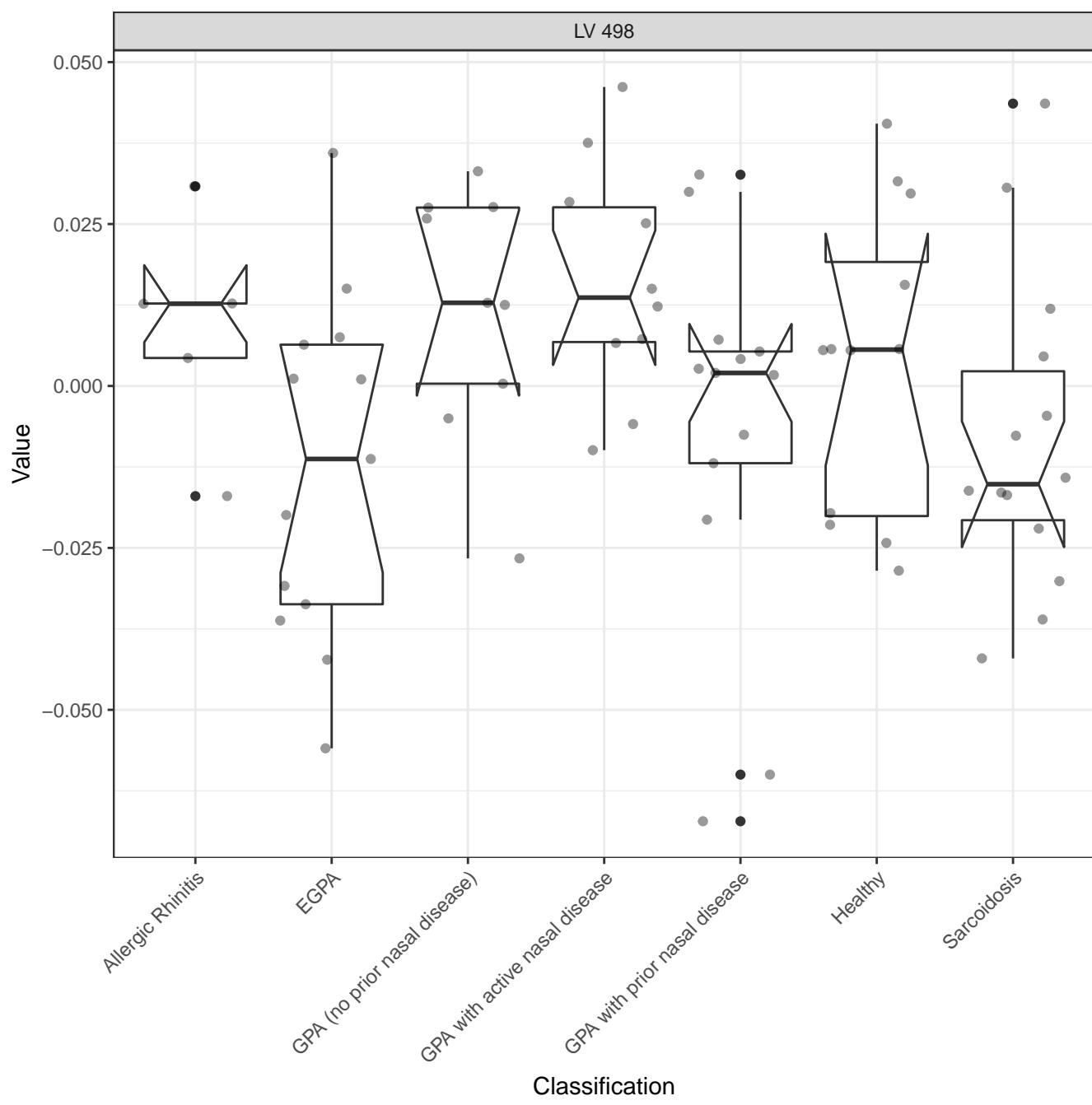
Classification

LV 496



LV 497





Value

0.050

0.025

0.000

-0.025

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

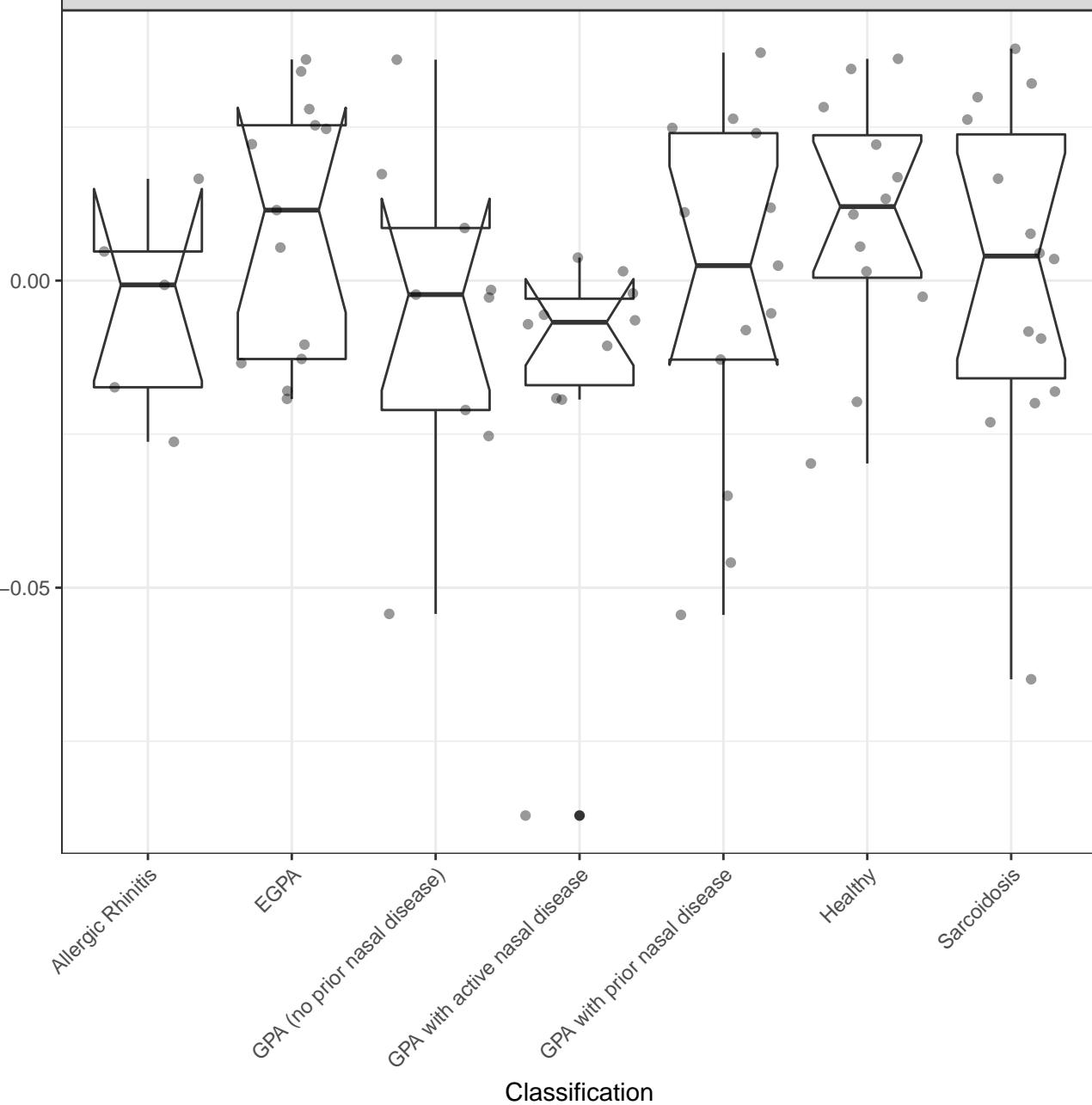
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



## 501,SVM NK cells activated

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

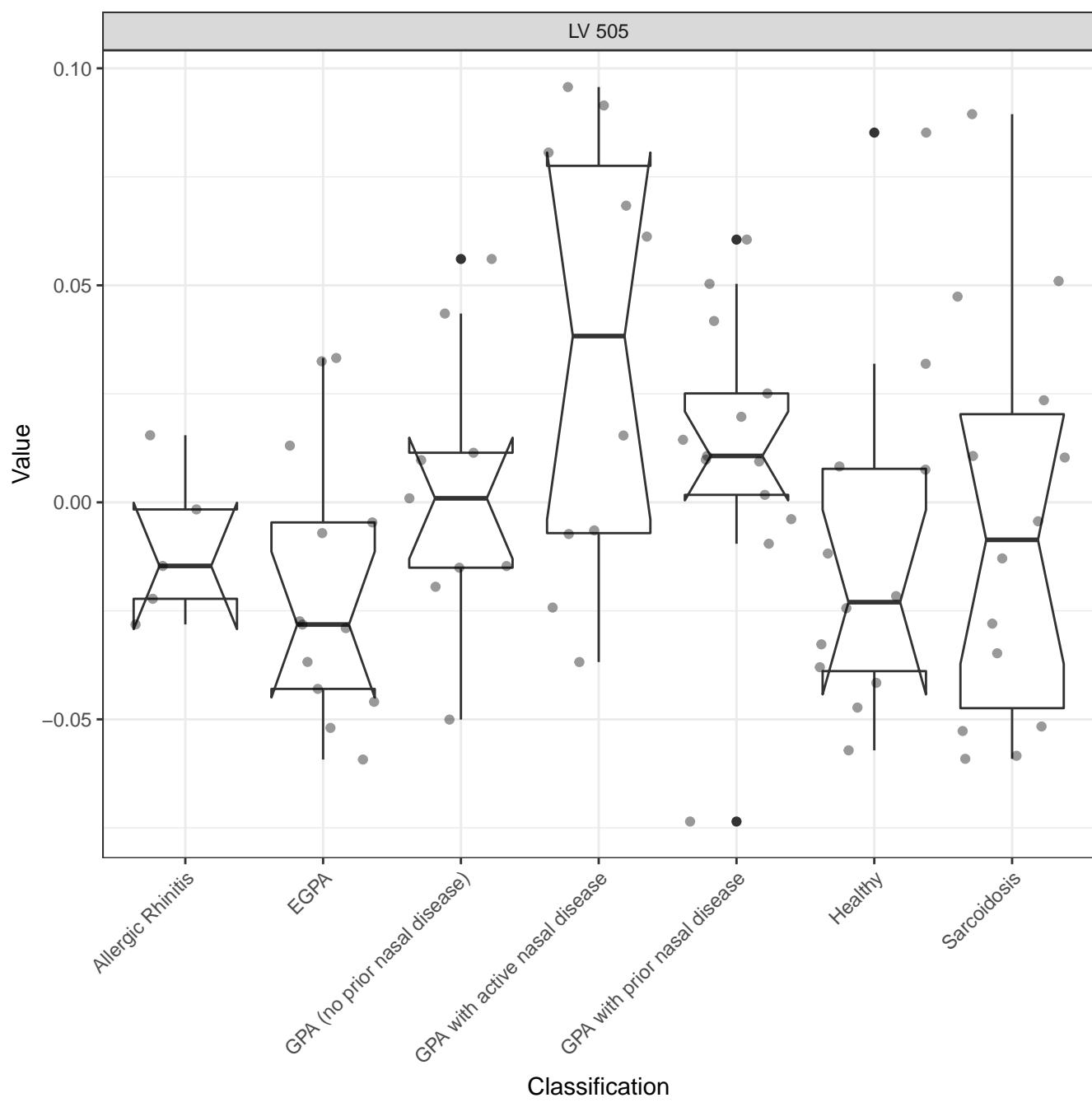
GPA with active nasal disease

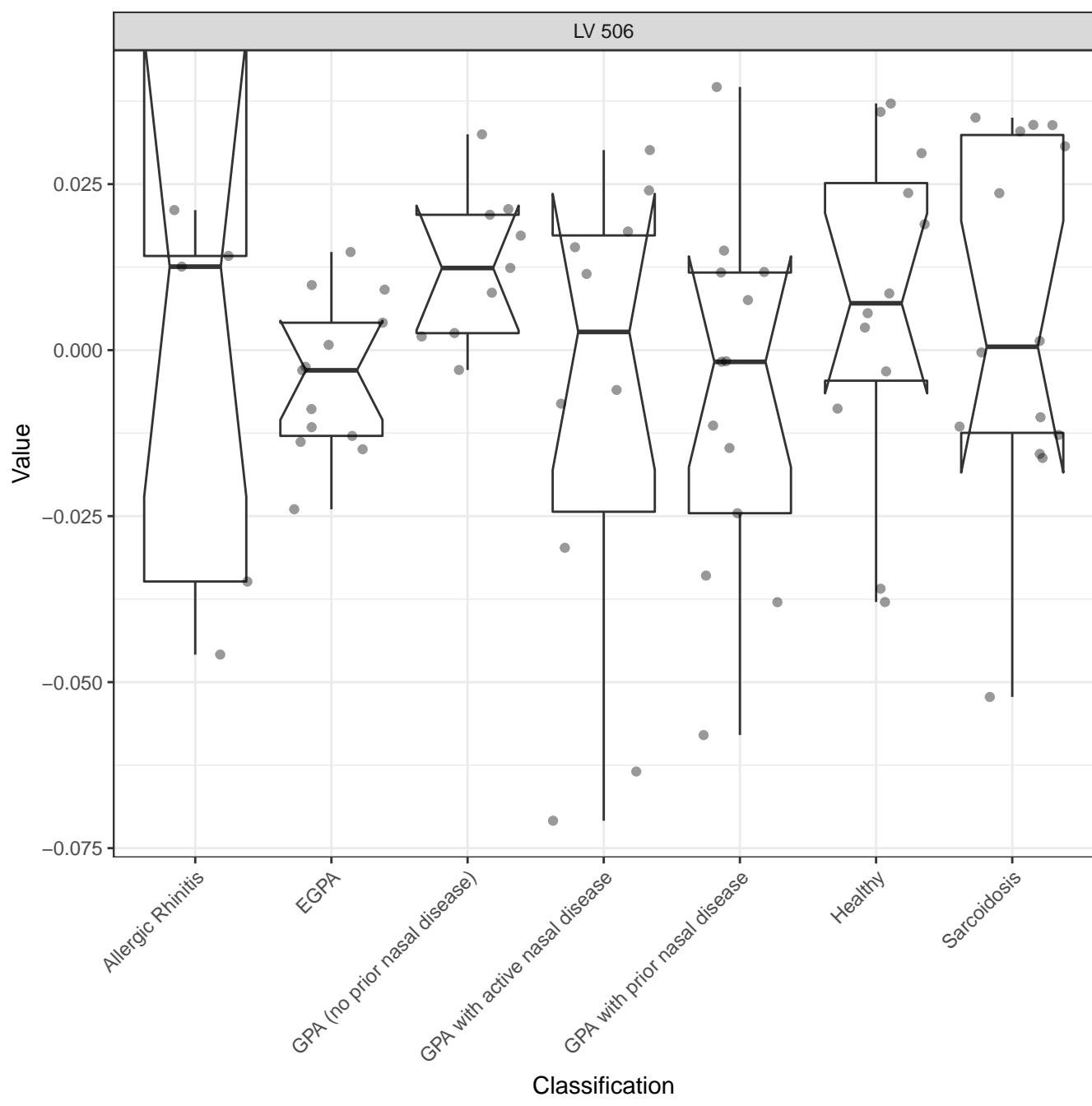
GPA with prior nasal disease

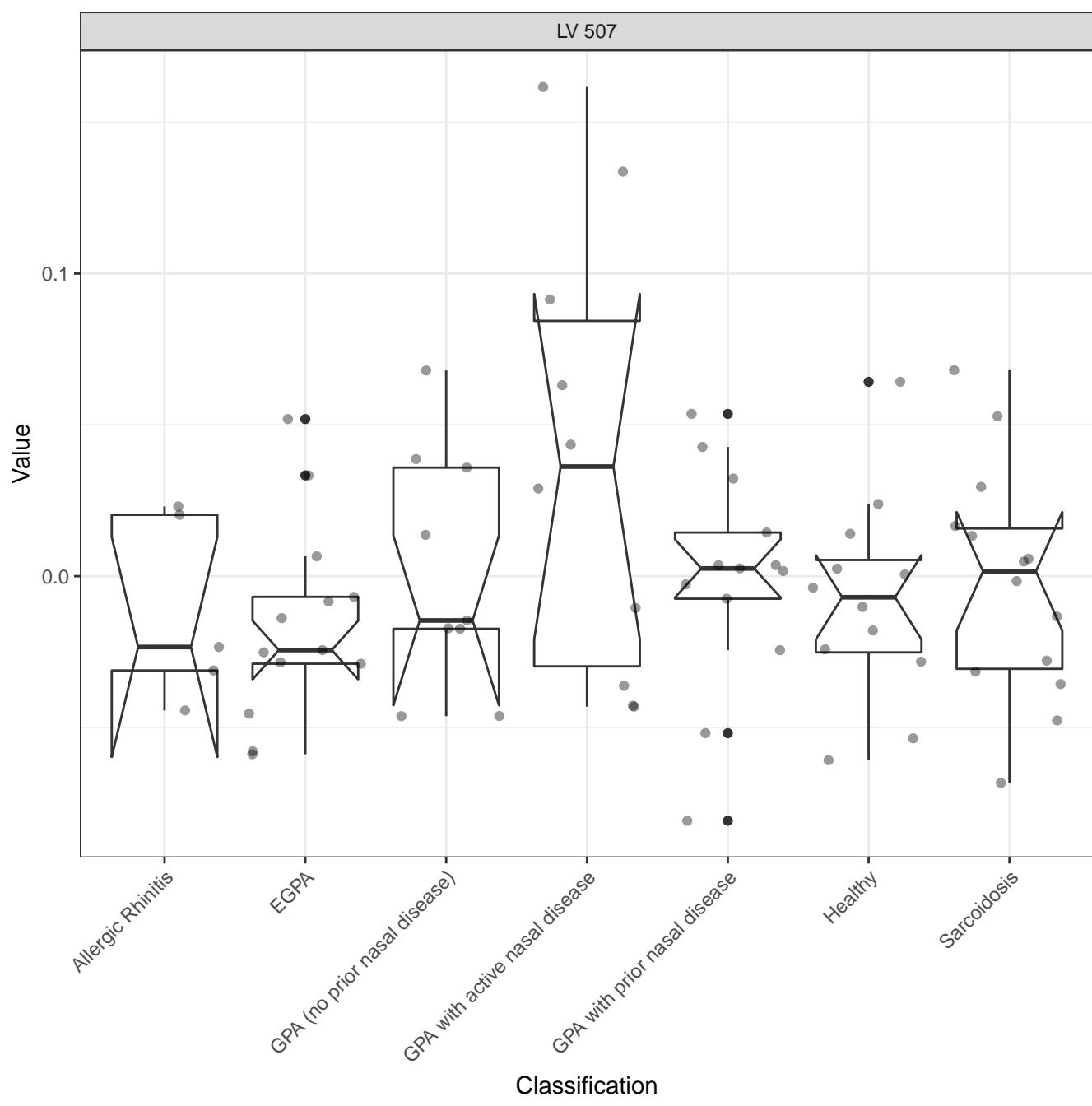
Healthy

Sarcoidosis

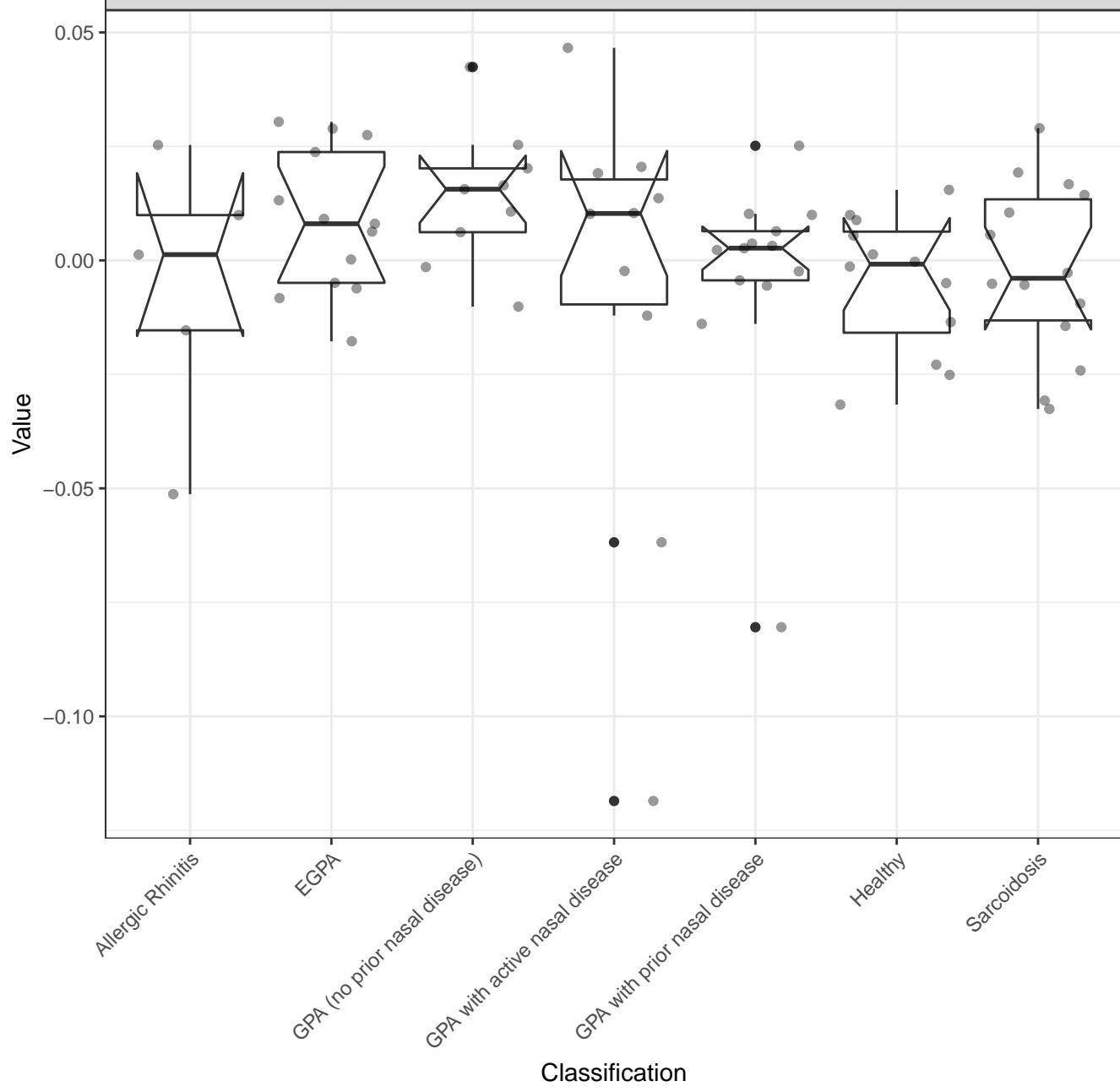
Classification

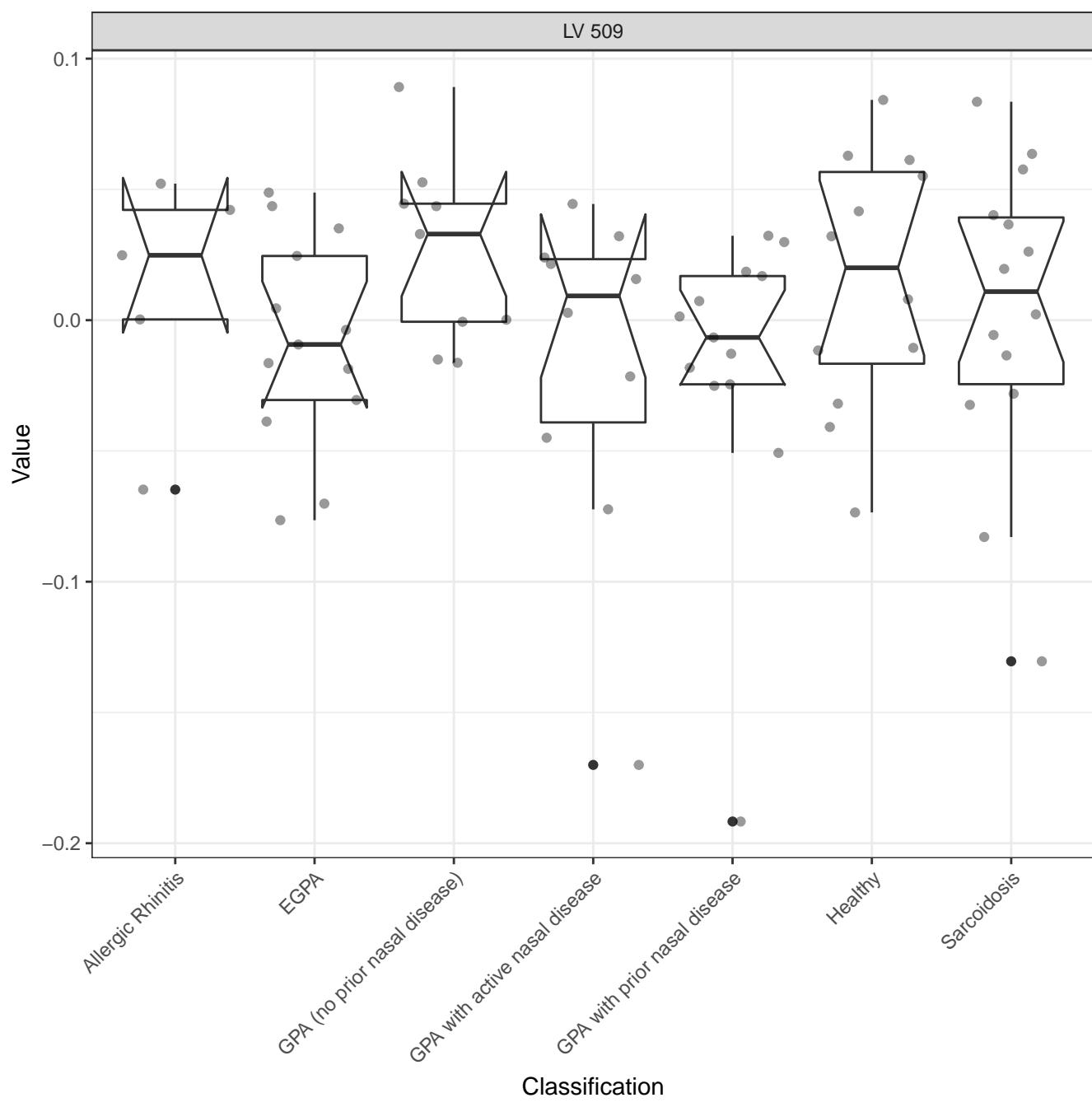


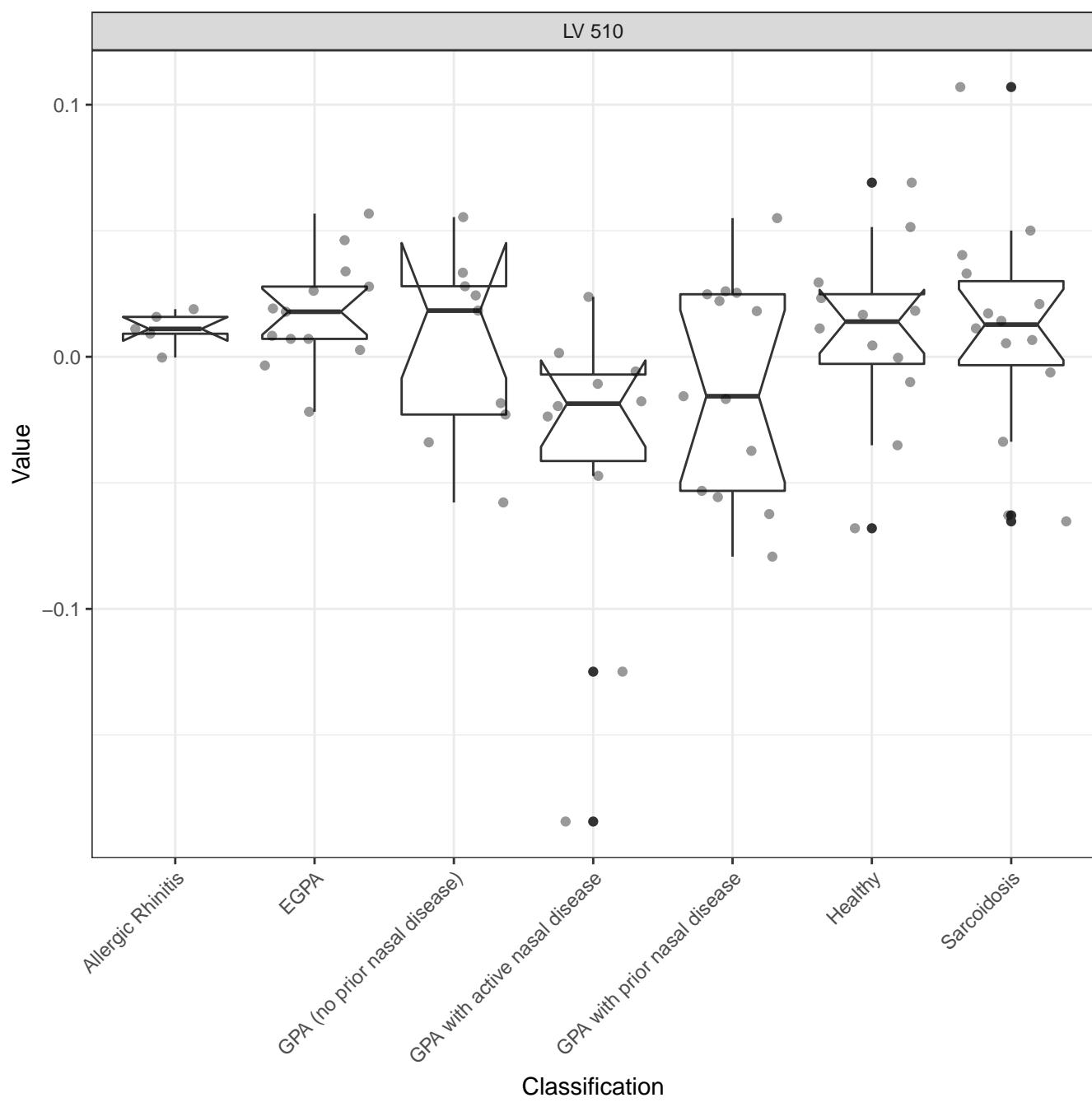


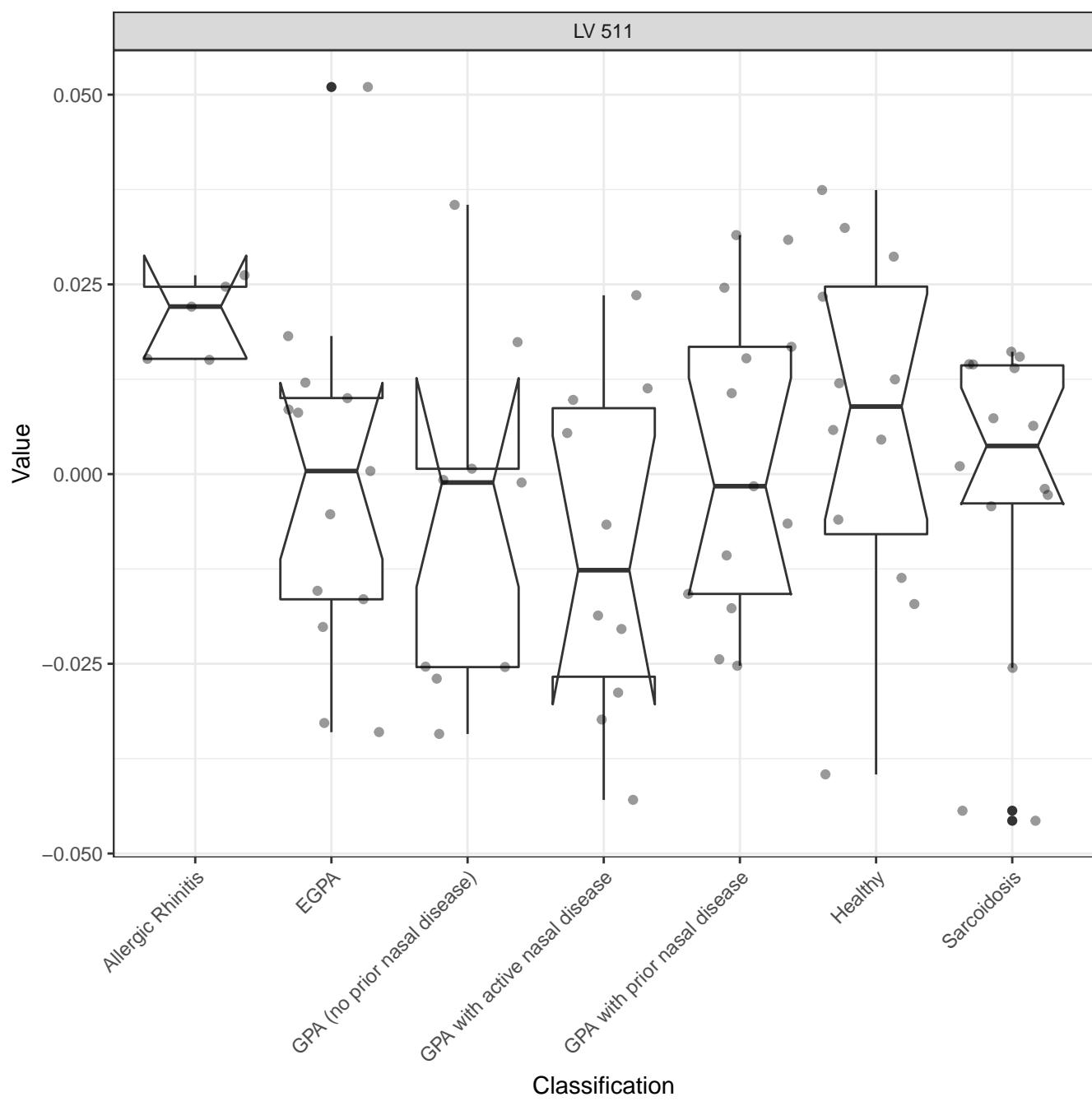


LV 508









Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

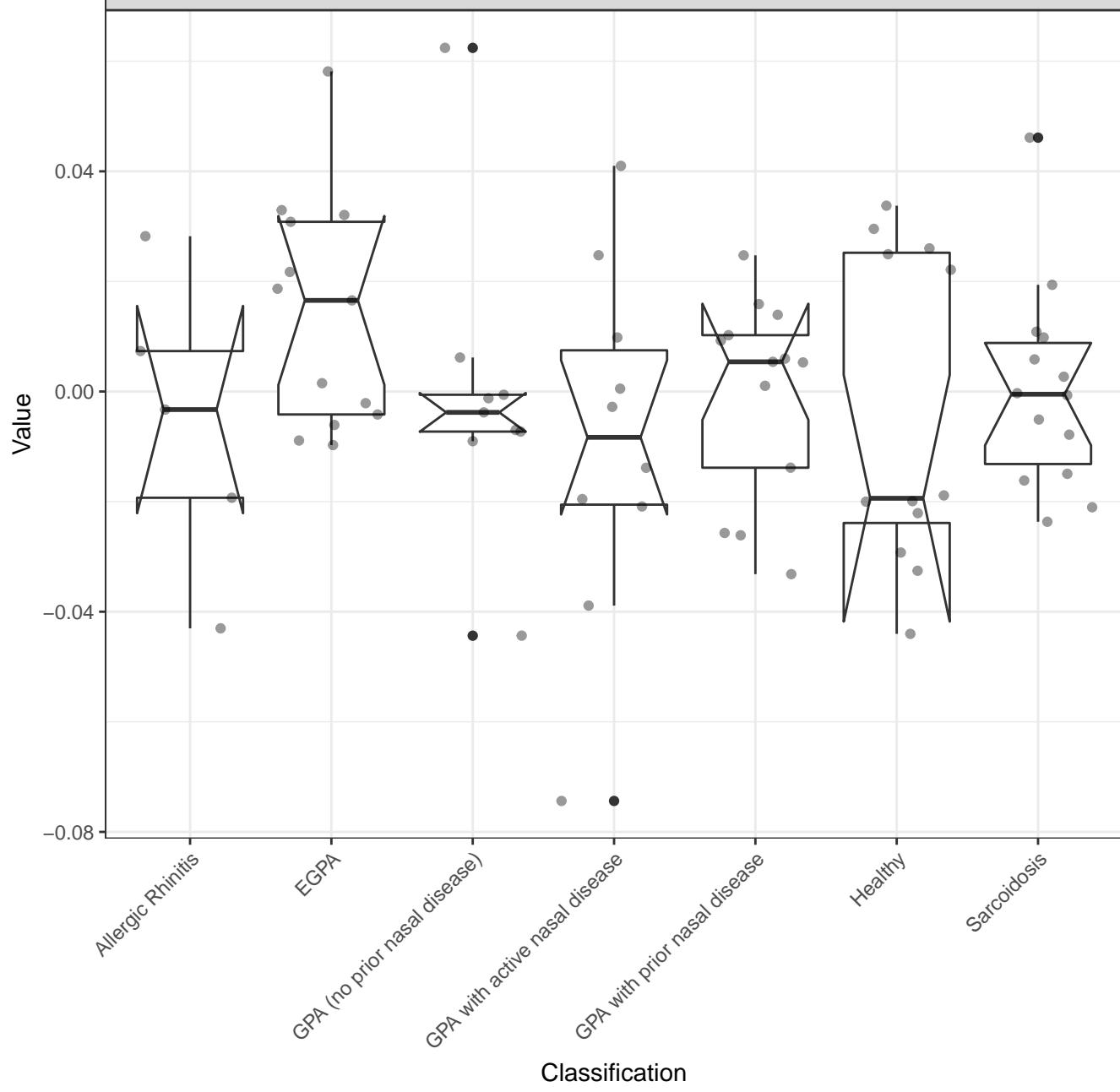
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 516,PID\_TCR\_PATHWAY

Value

0.4

0.2

0.0

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

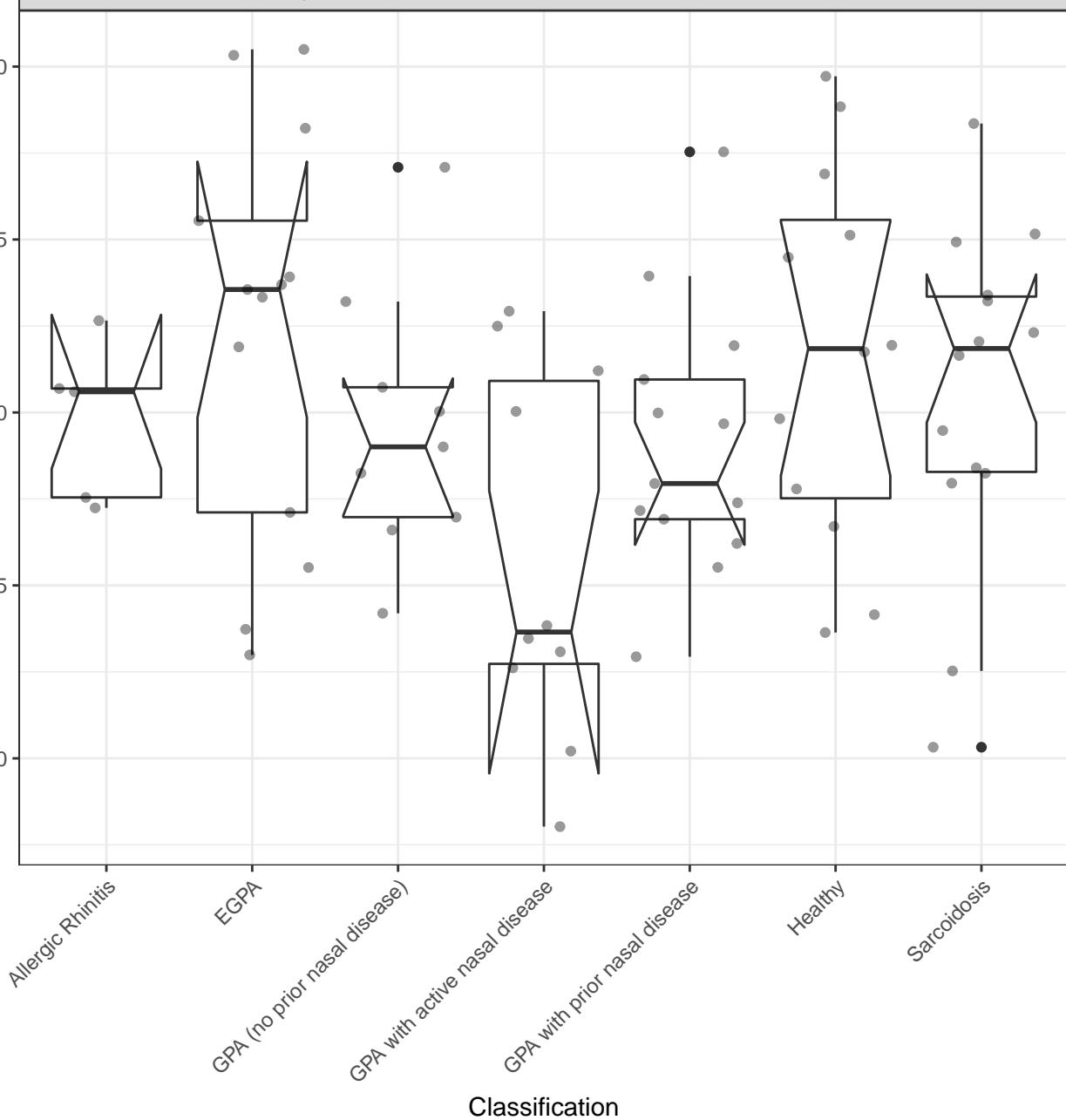
Healthy

Sarcoidosis

Classification

## 518,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

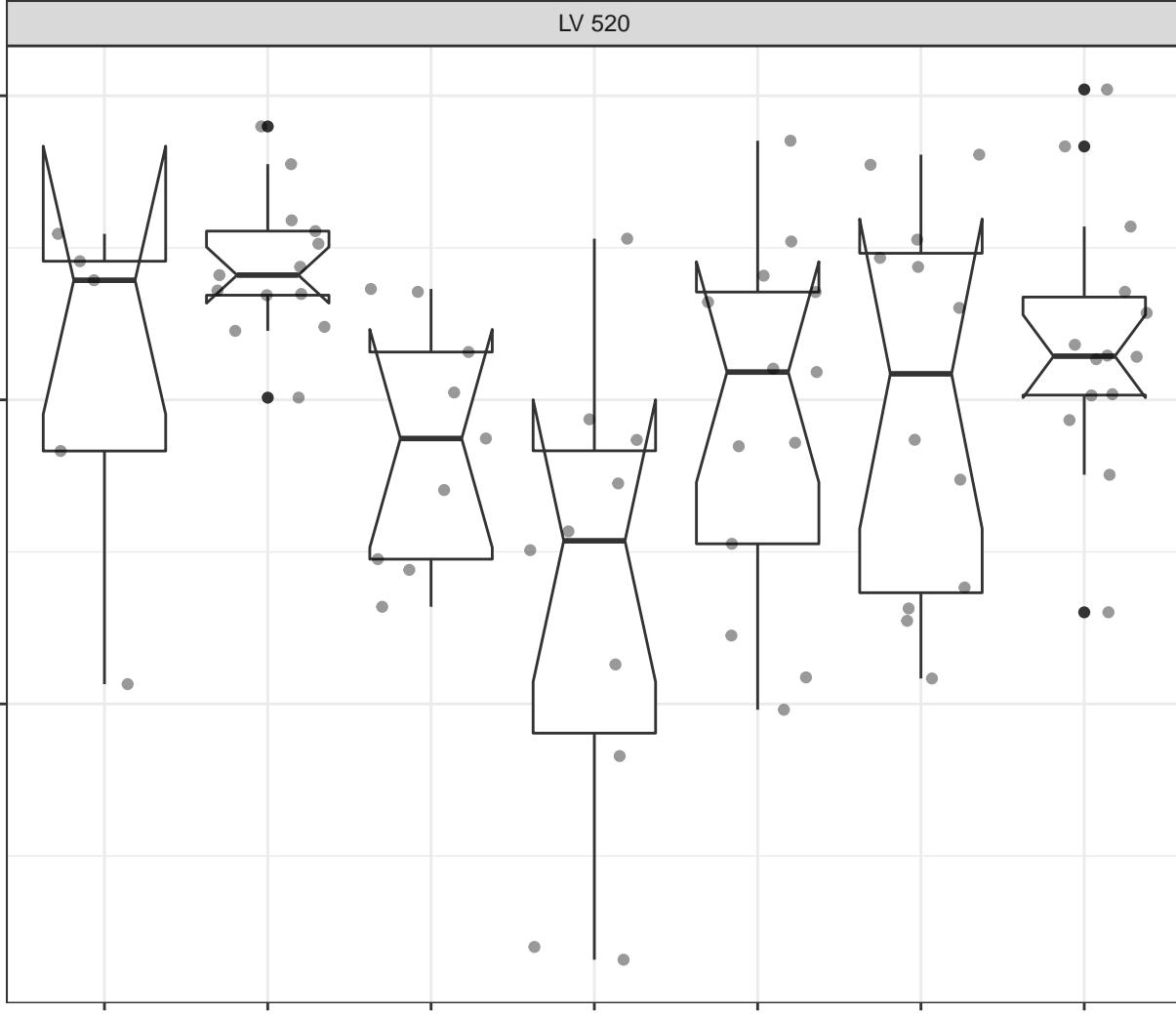
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.4

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

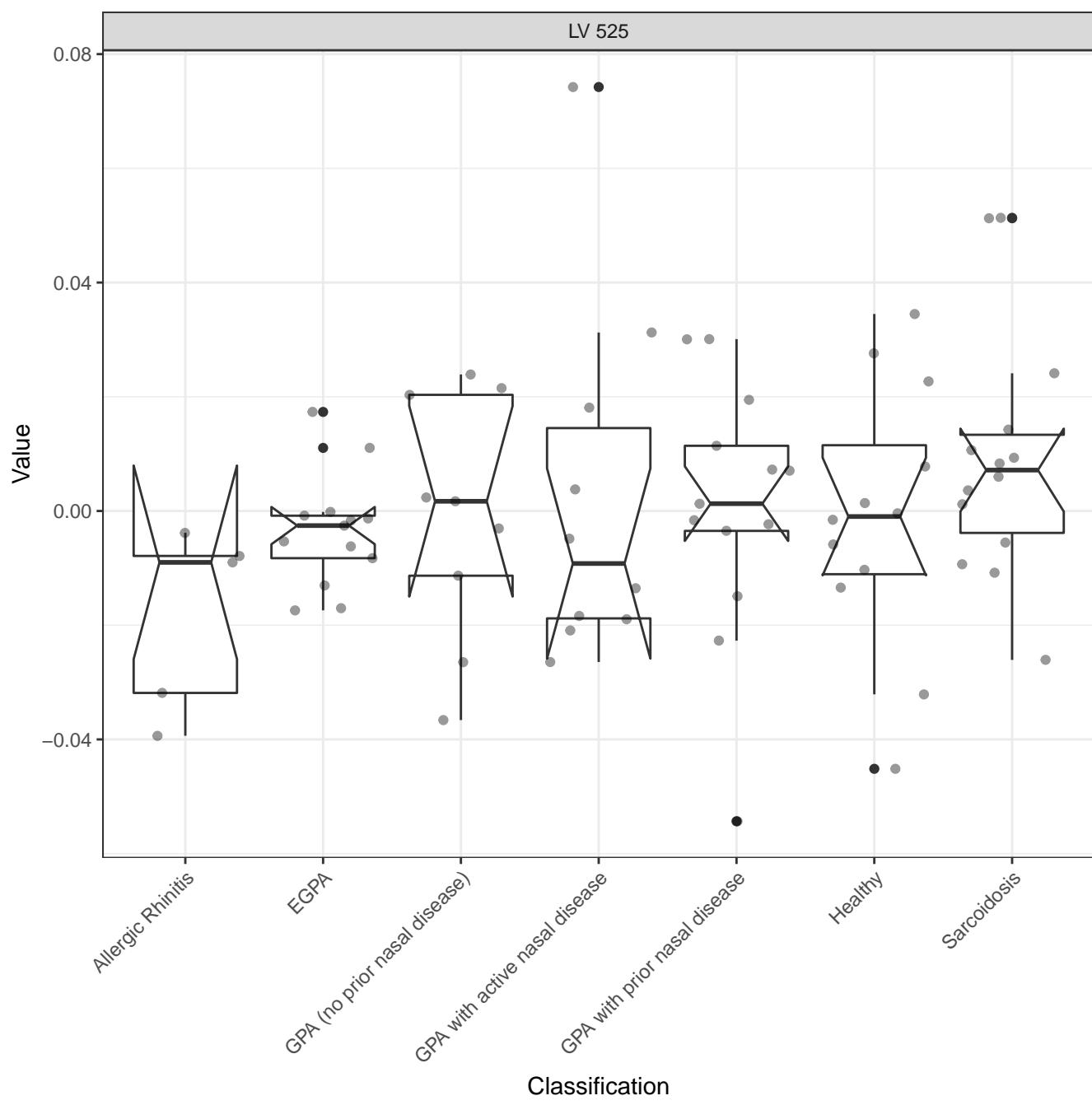
GPA with active nasal disease

GPA with prior nasal disease

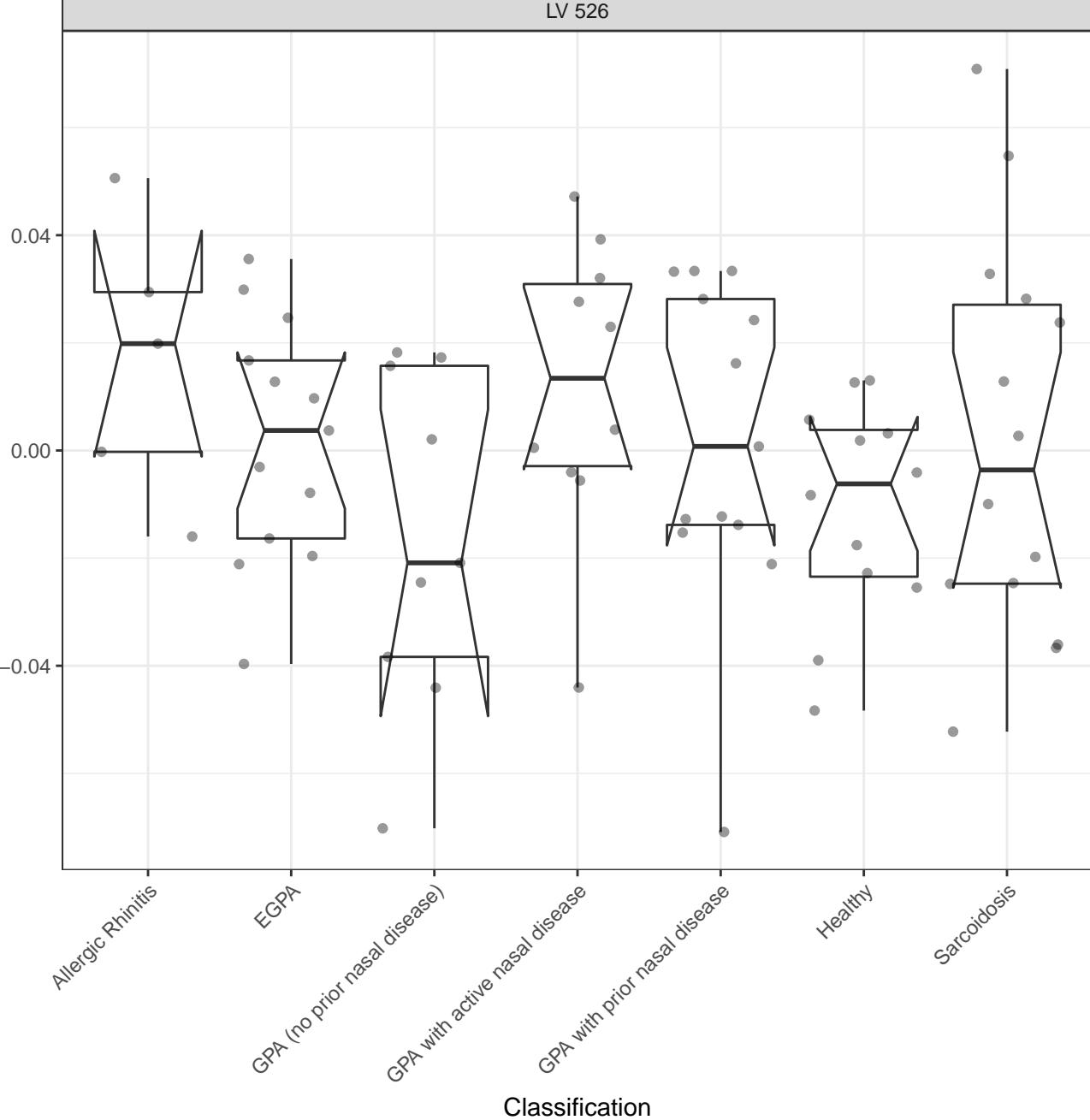
Healthy

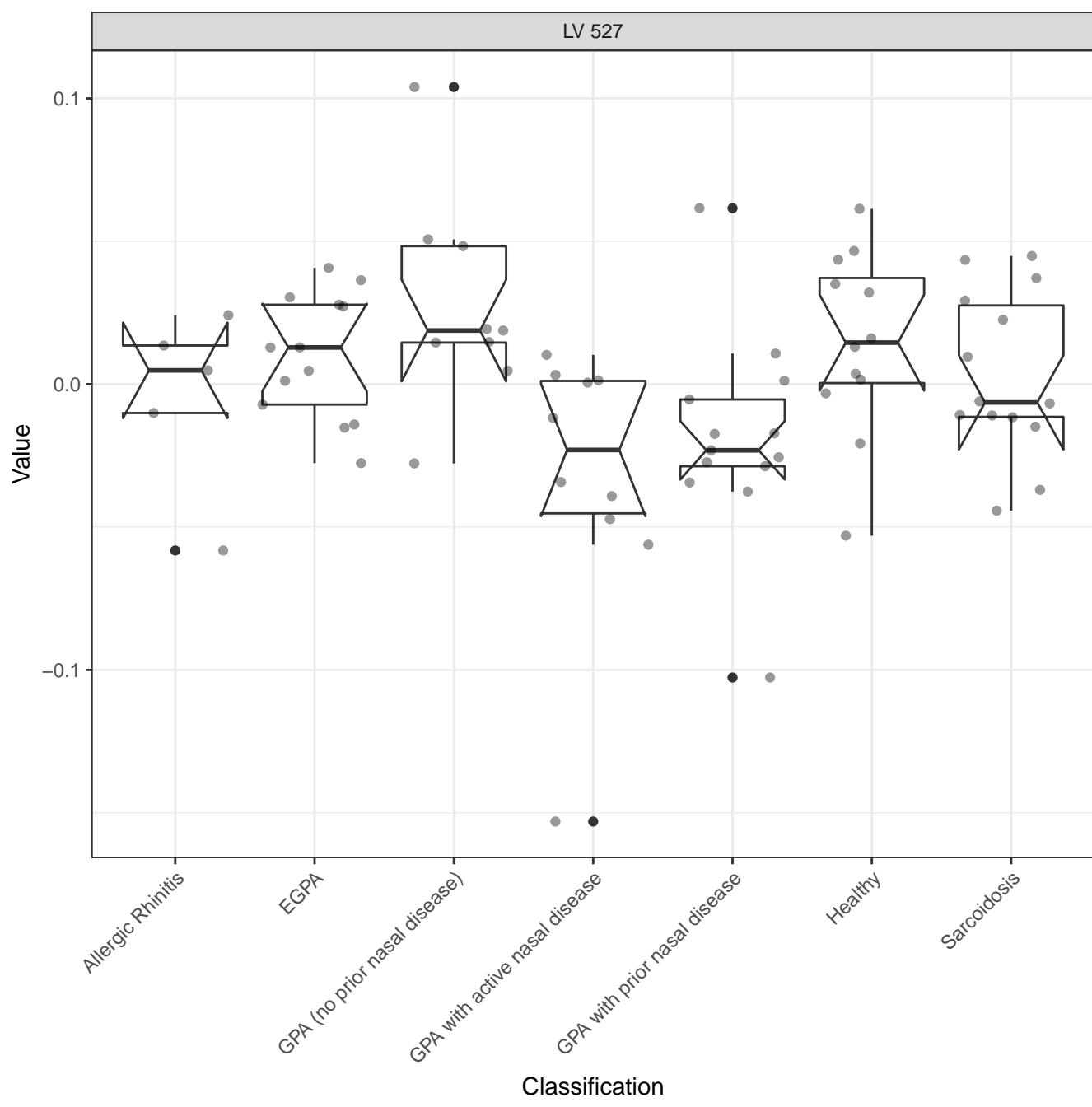
Sarcoidosis

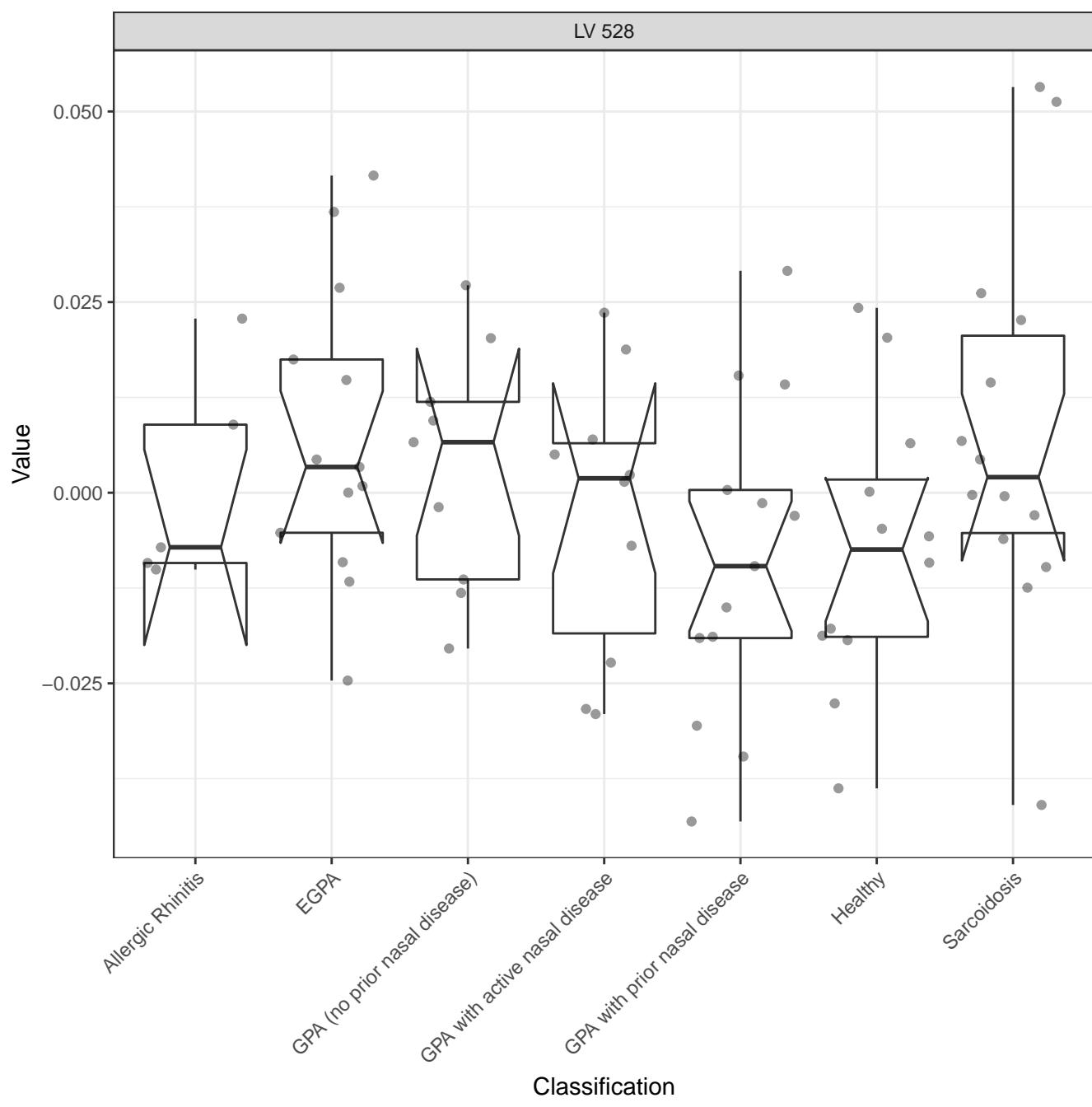
Classification

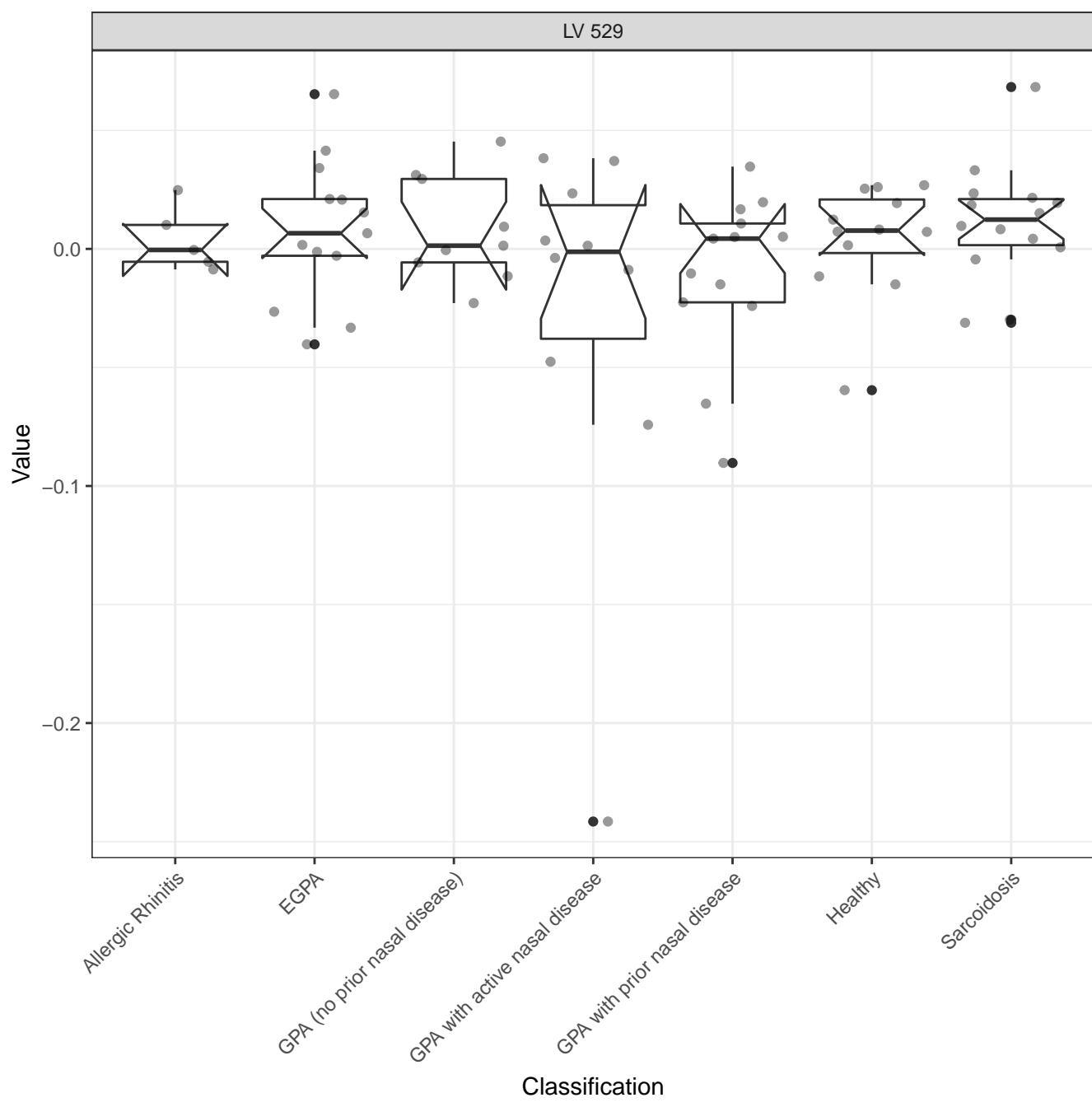


Value









Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

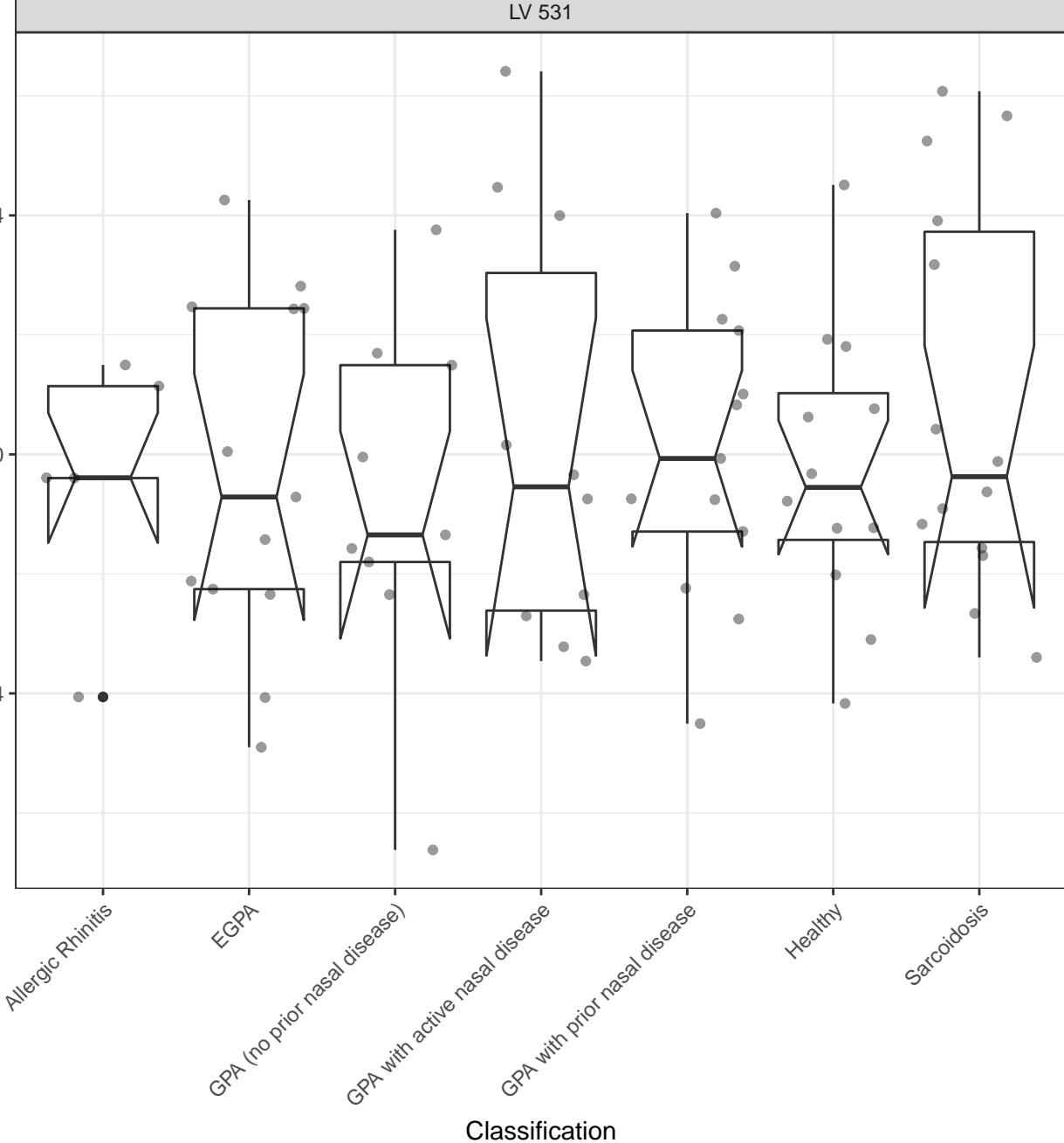
GPA with prior nasal disease

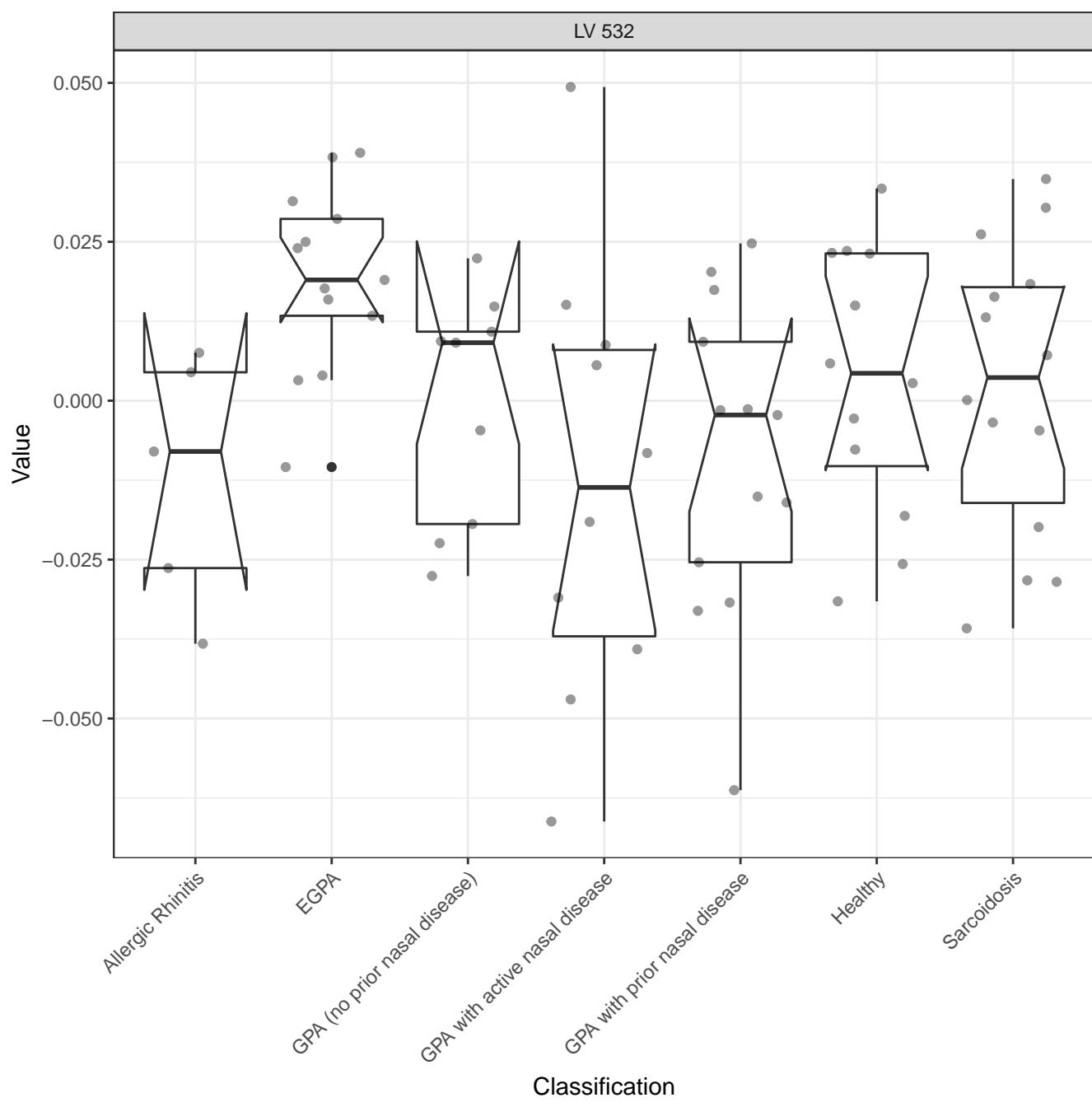
Healthy

Sarcoidosis

Classification

Value





Value

0.04

0.01

-0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

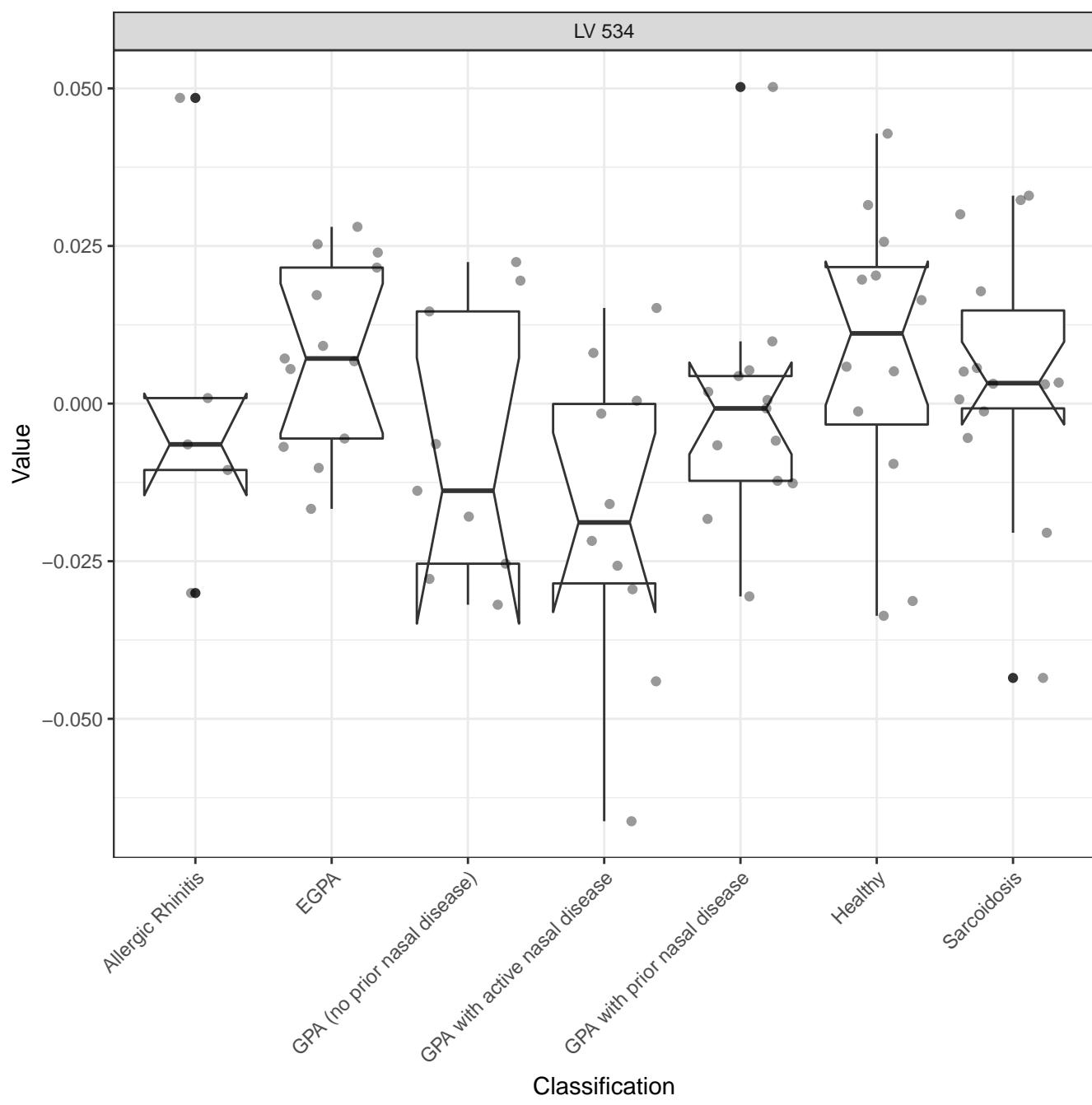
GPA with active nasal disease

GPA with prior nasal disease

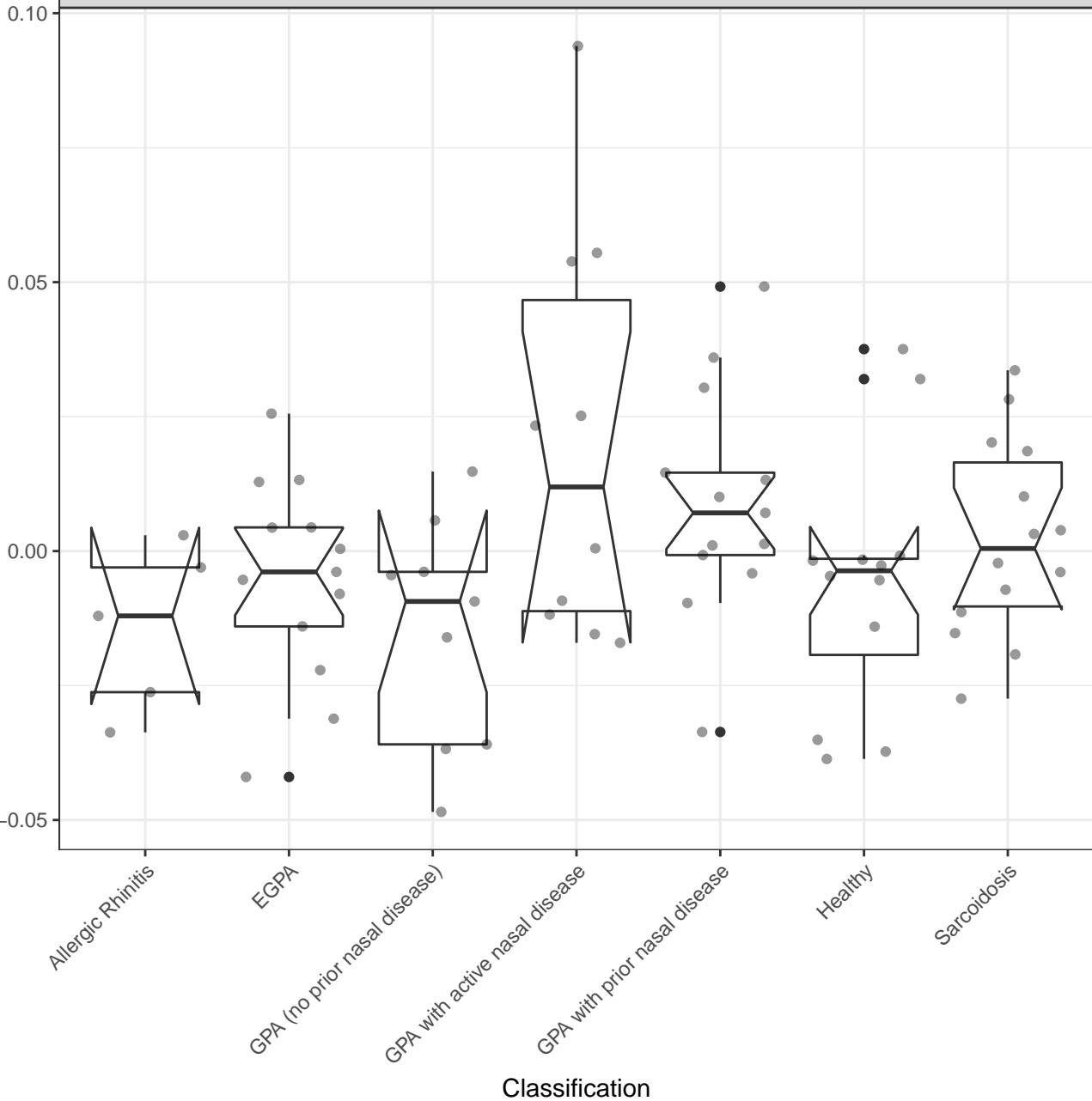
Healthy

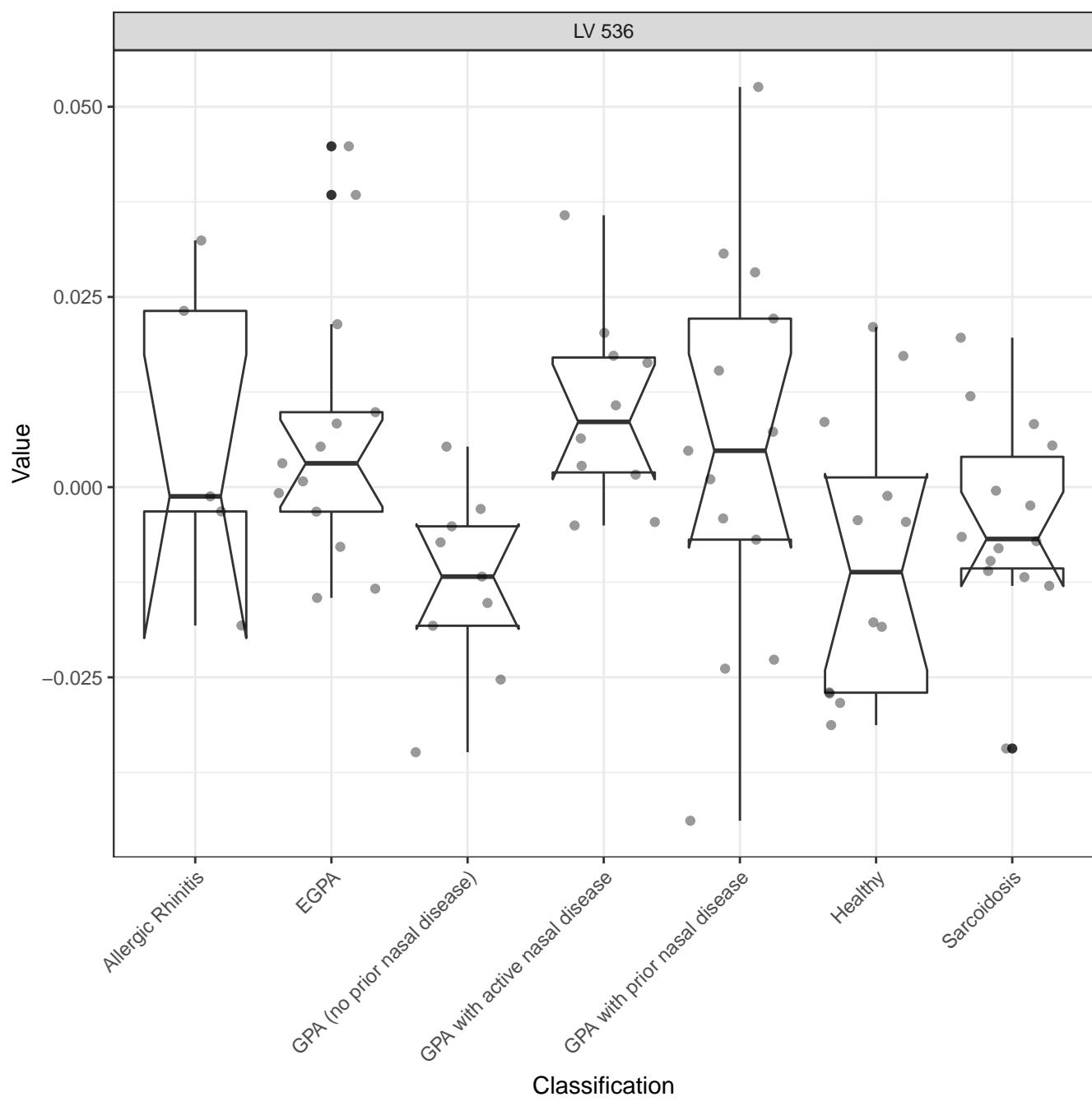
Sarcoidosis

Classification

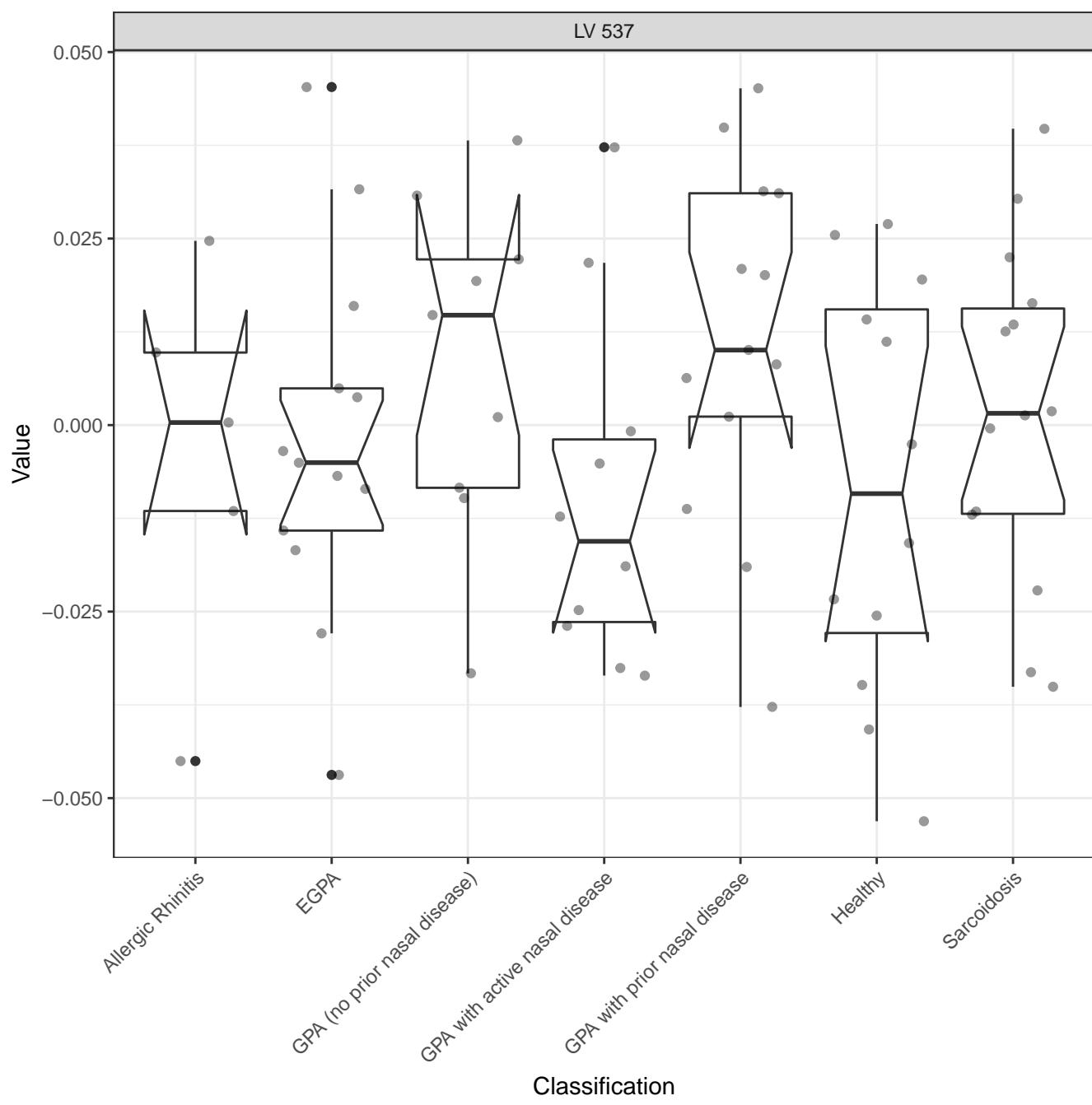


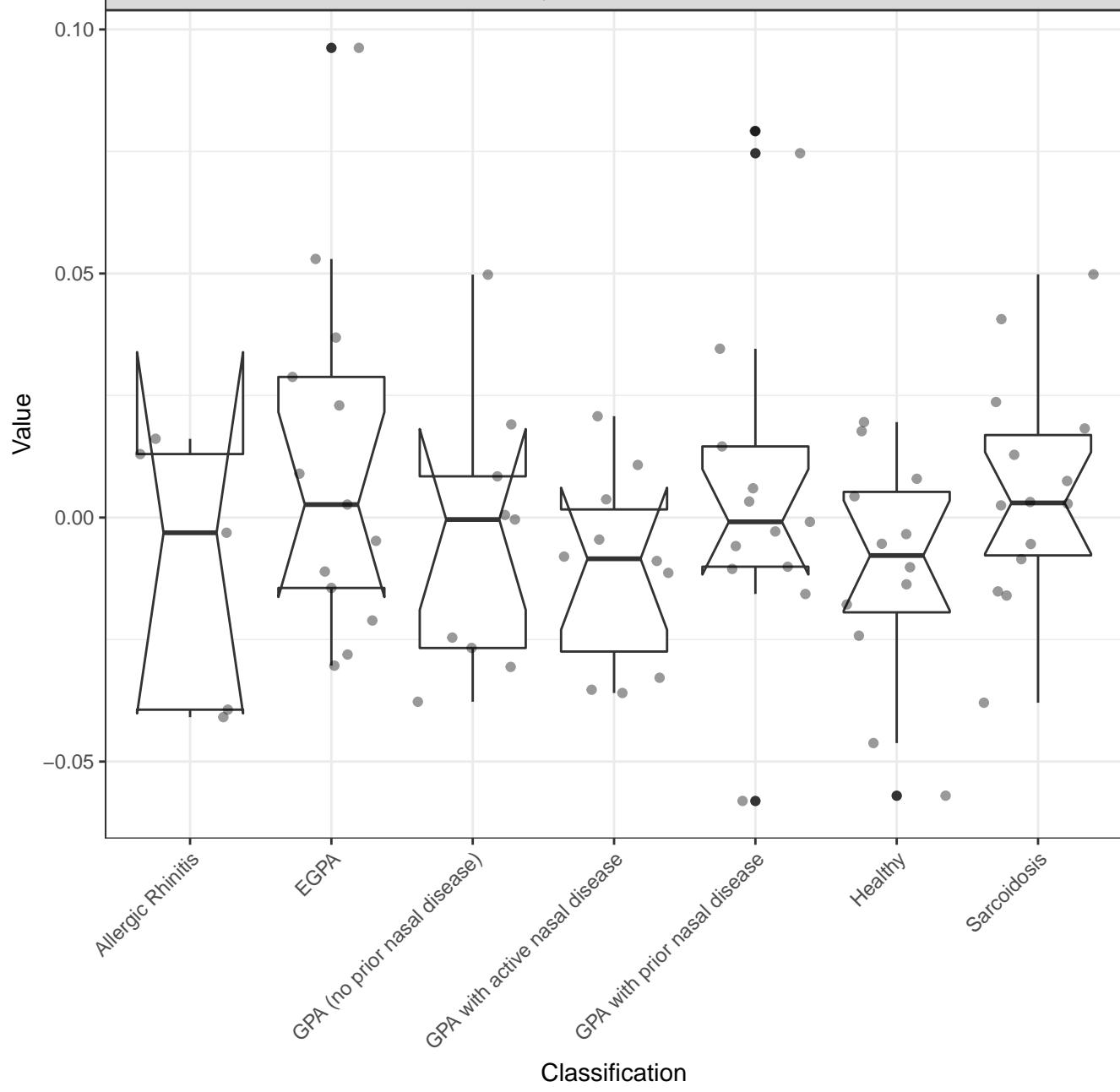
Value





LV 537





Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

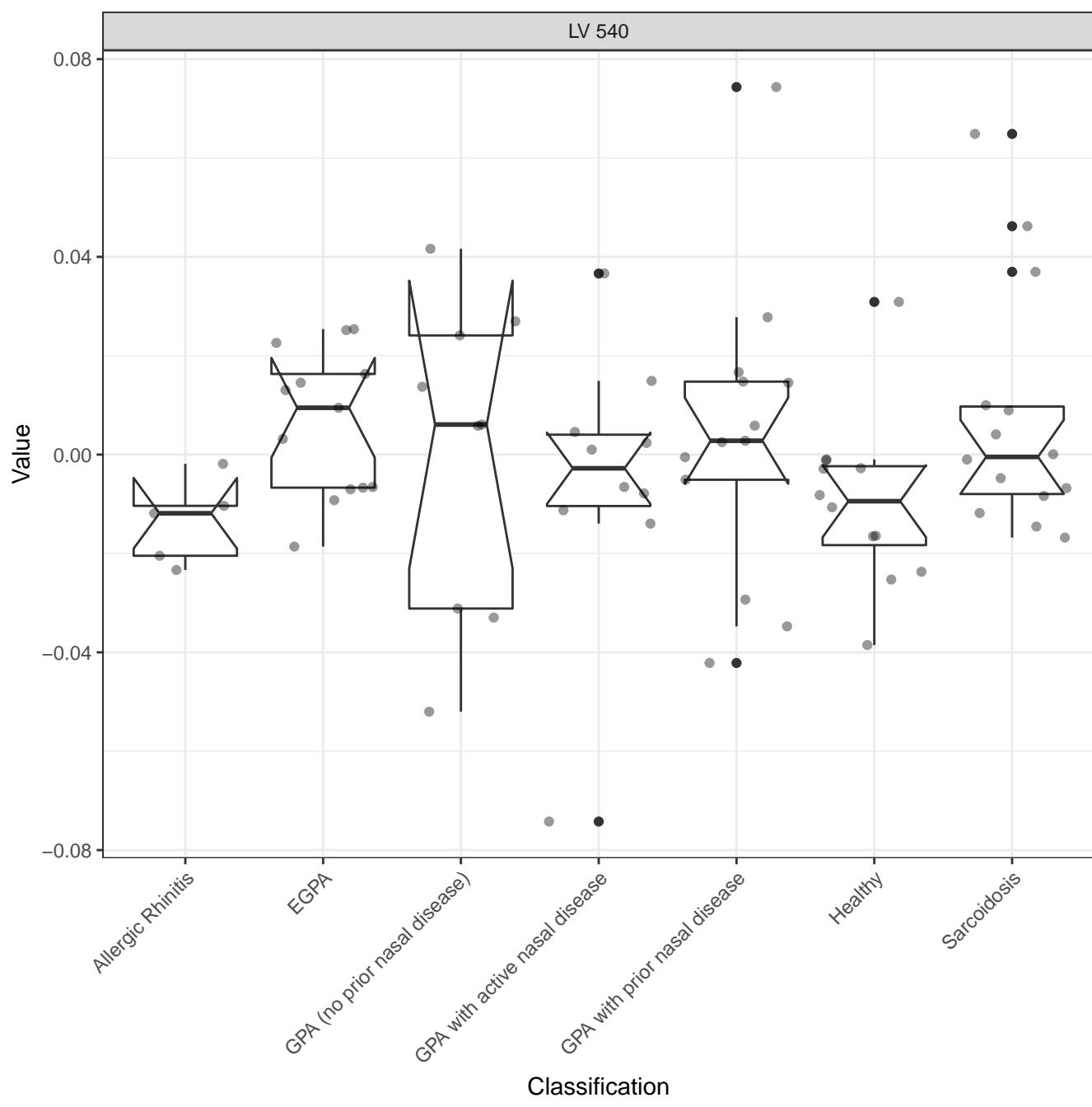
GPA with active nasal disease

GPA with prior nasal disease

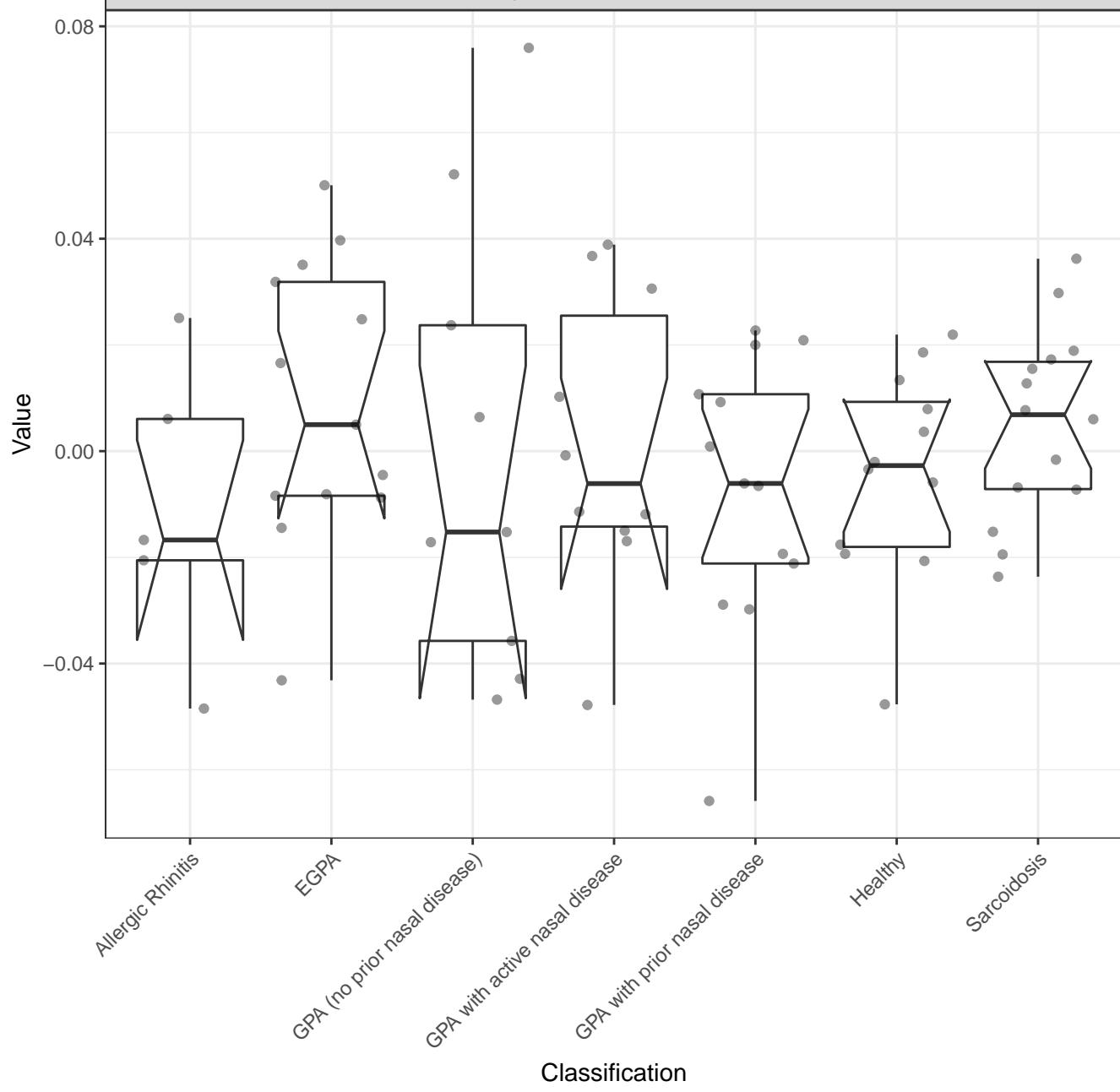
Healthy

Sarcoidosis

Classification



## 541,REACTOME\_G1\_PHASE



Value

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

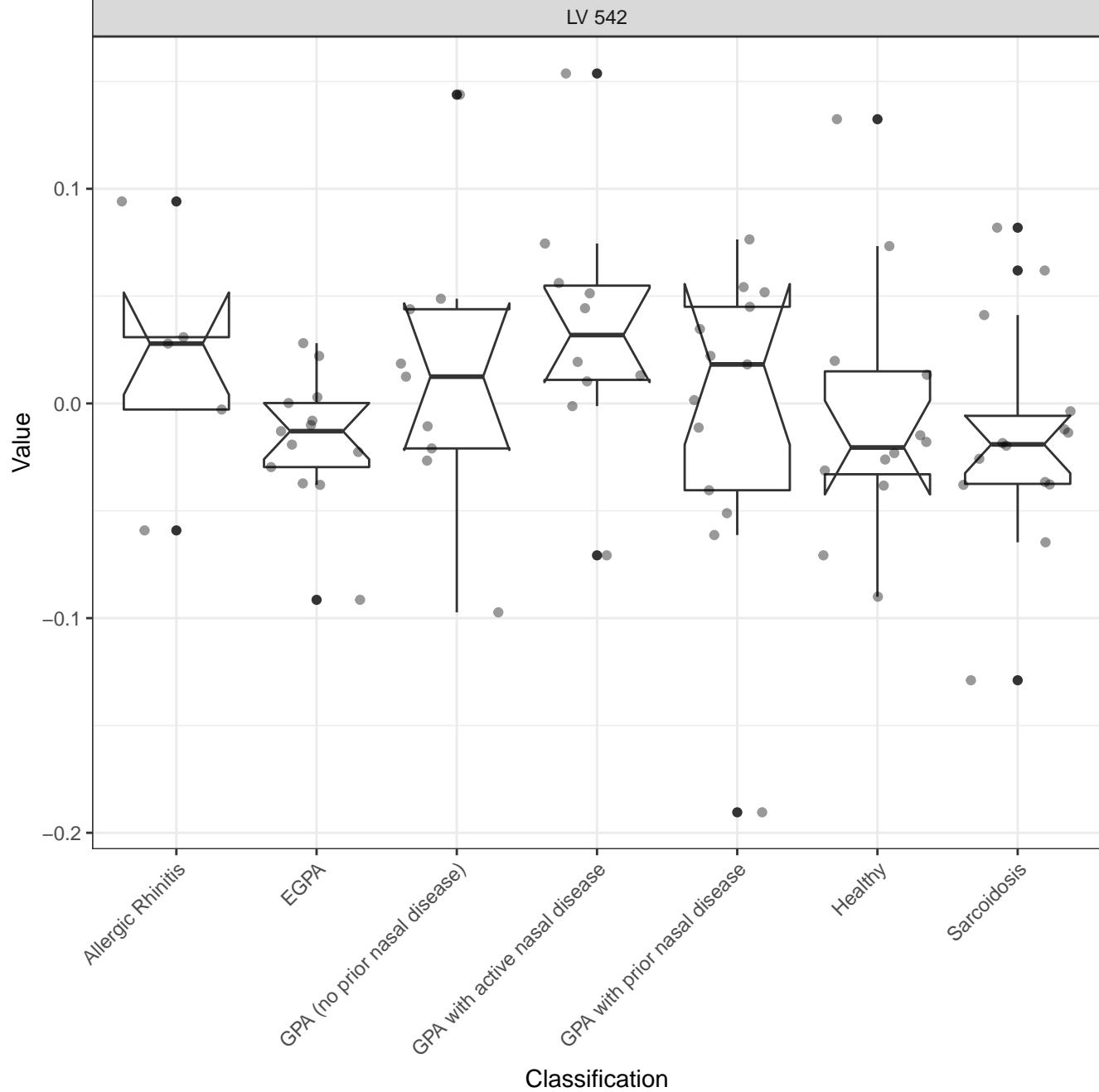
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

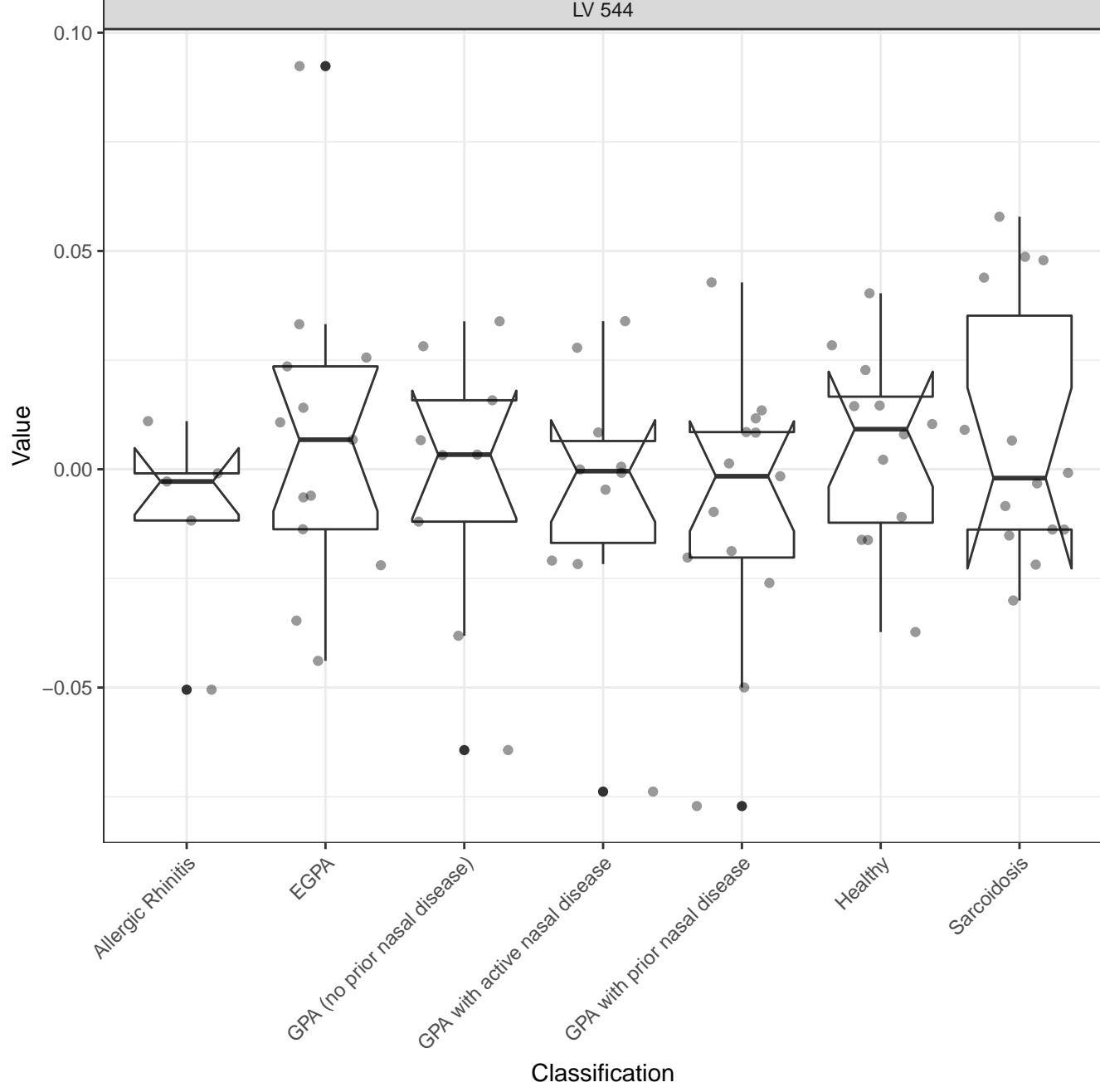
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

-0.15

-0.20

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

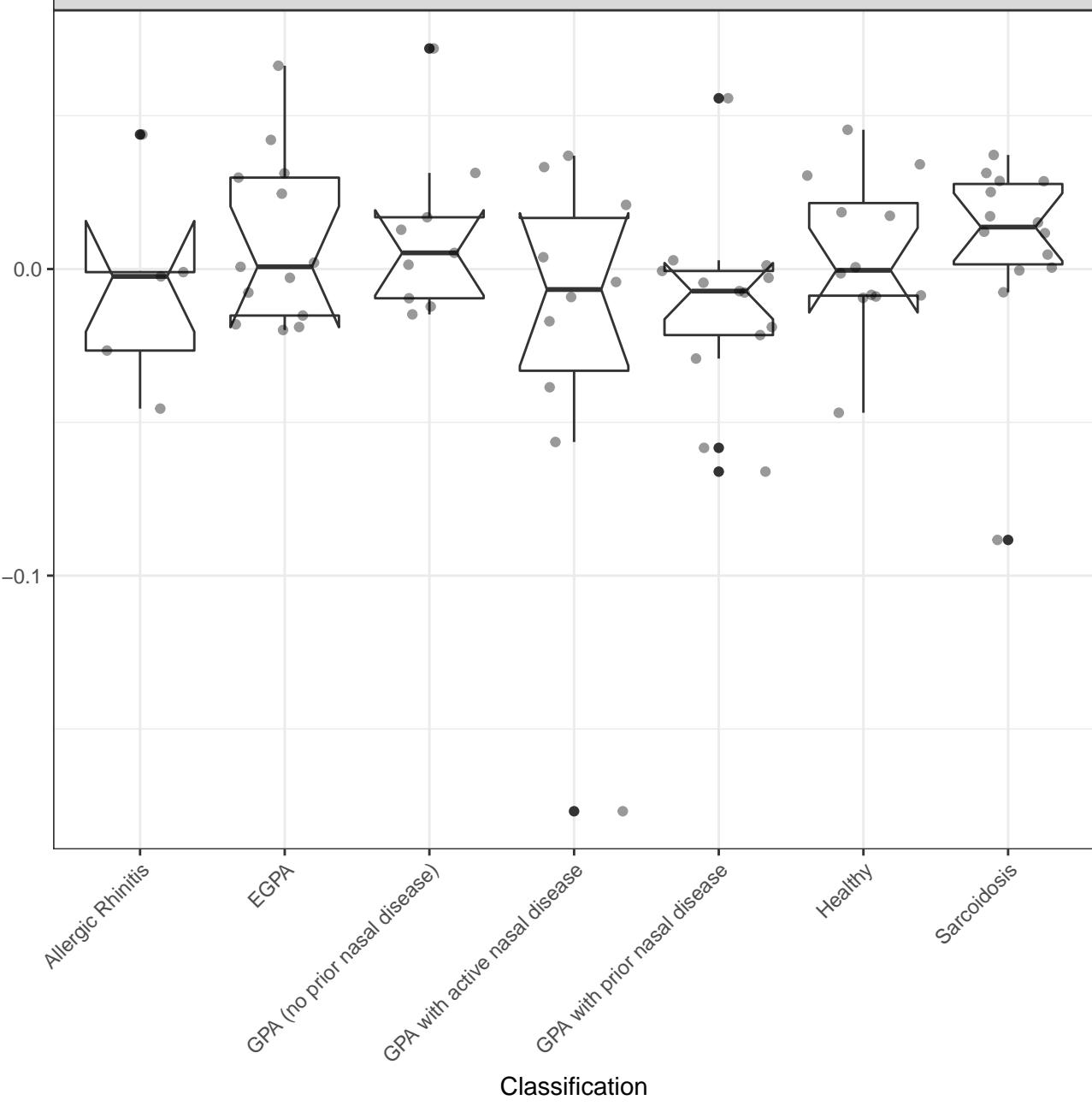
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

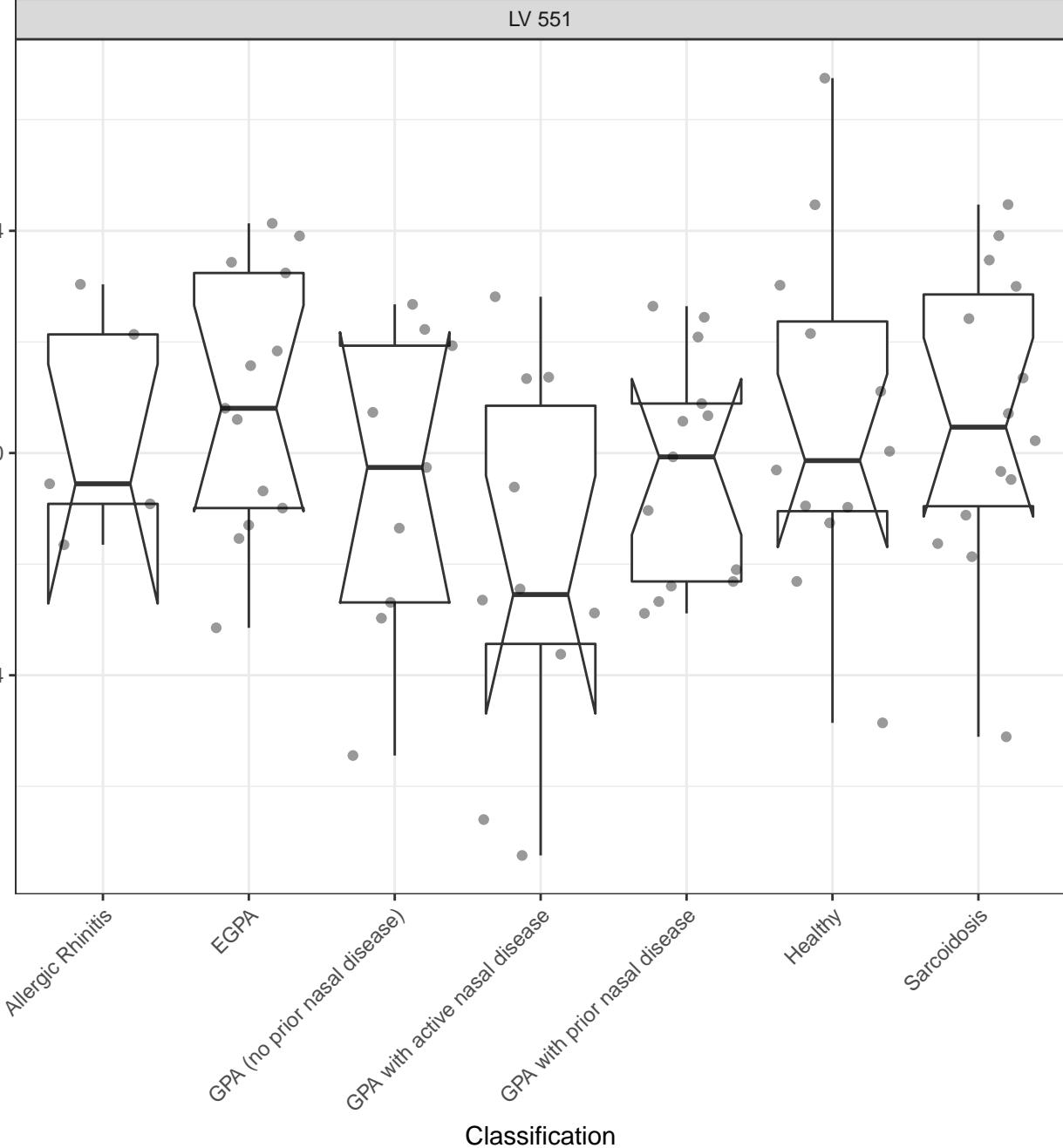
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

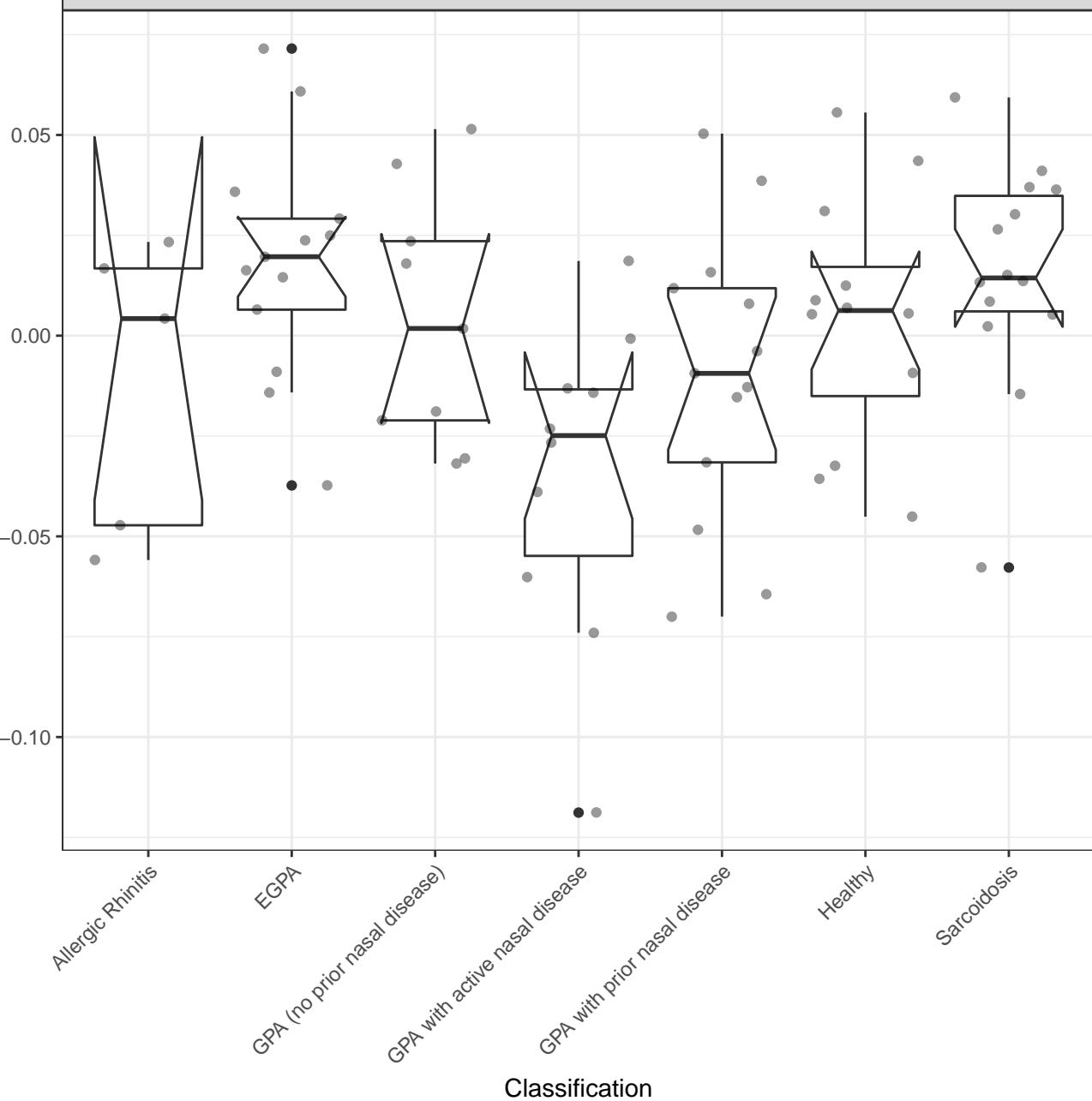
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 557,SVM Dendritic cells resting

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

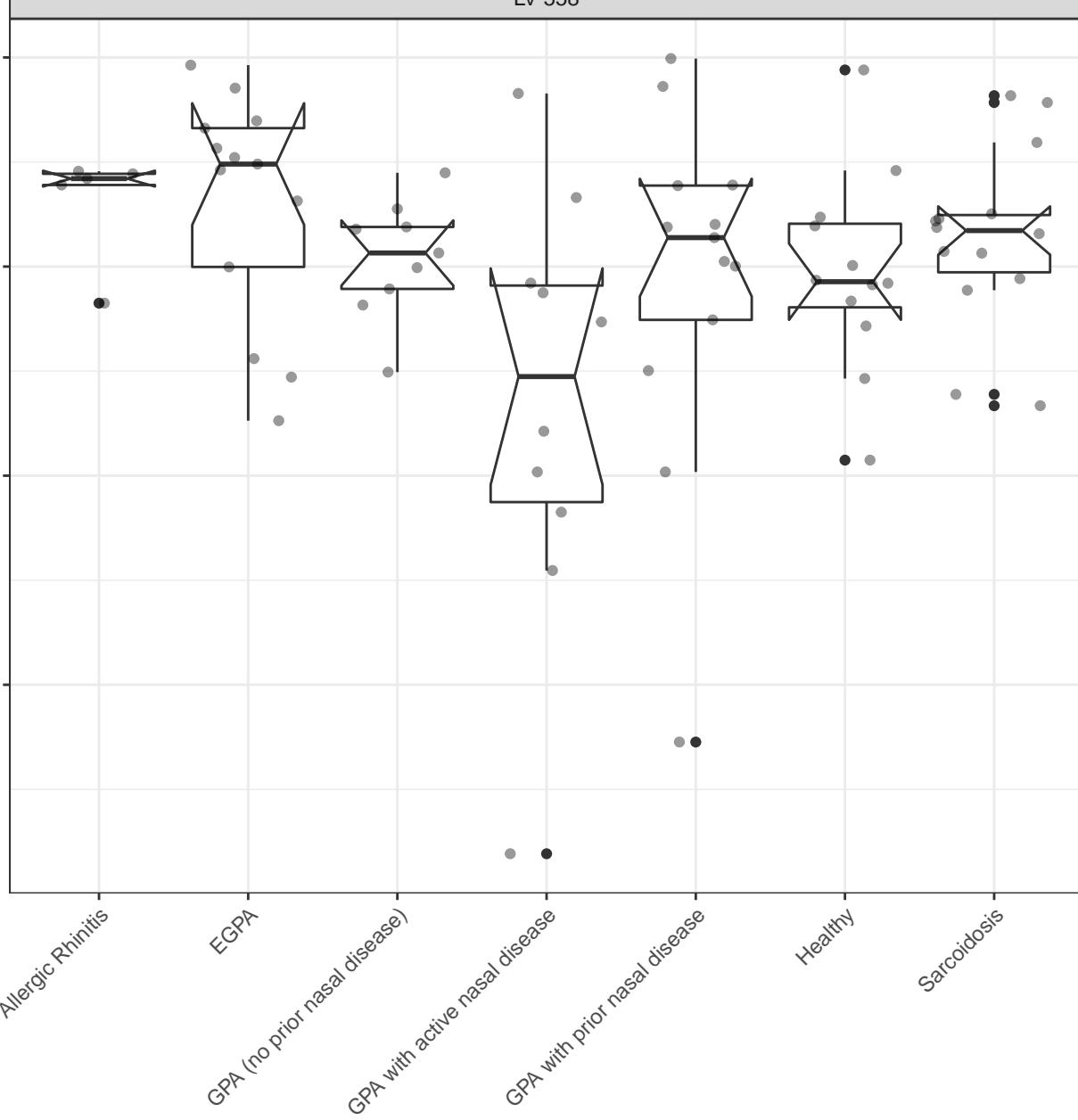
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

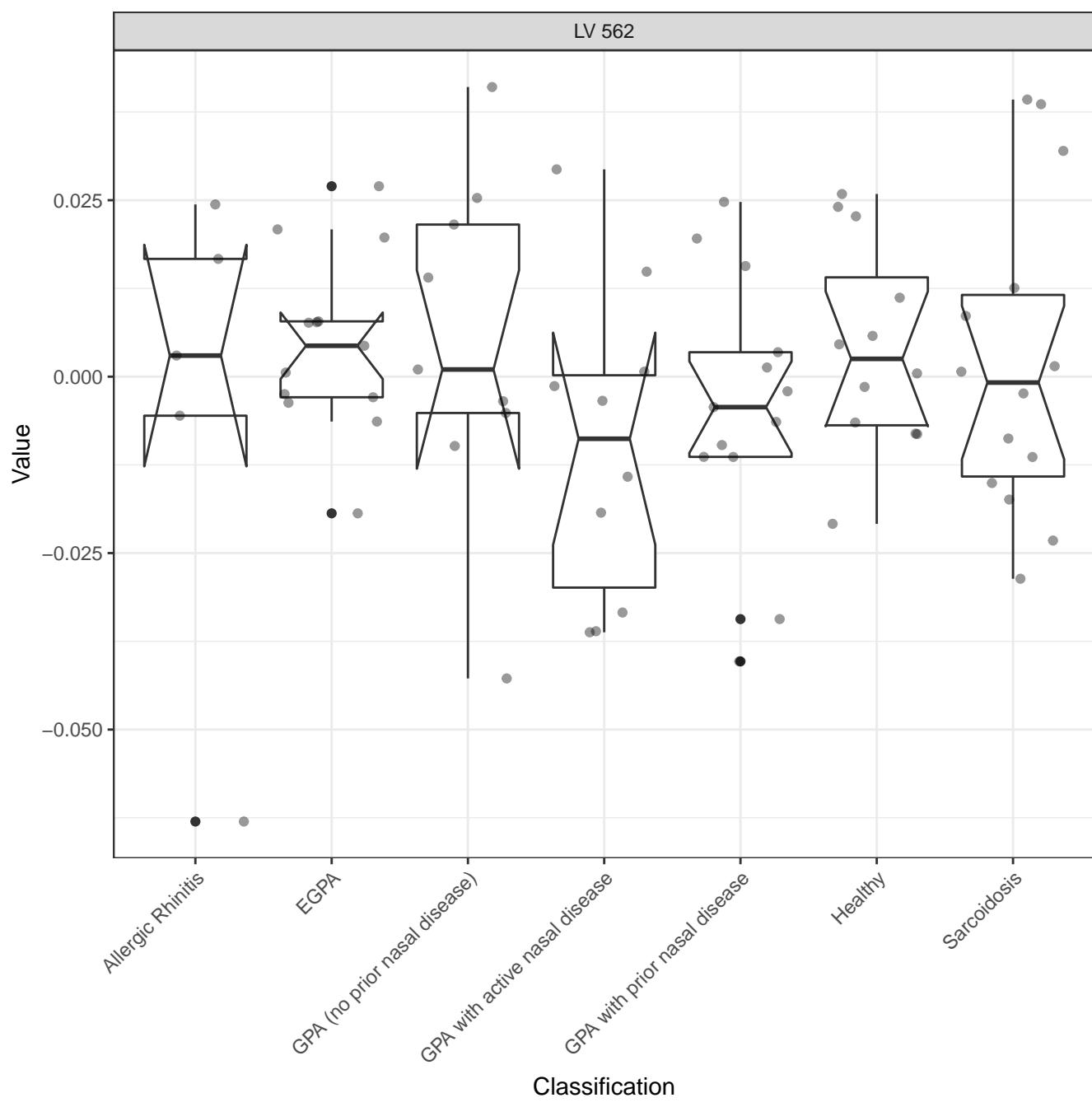
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

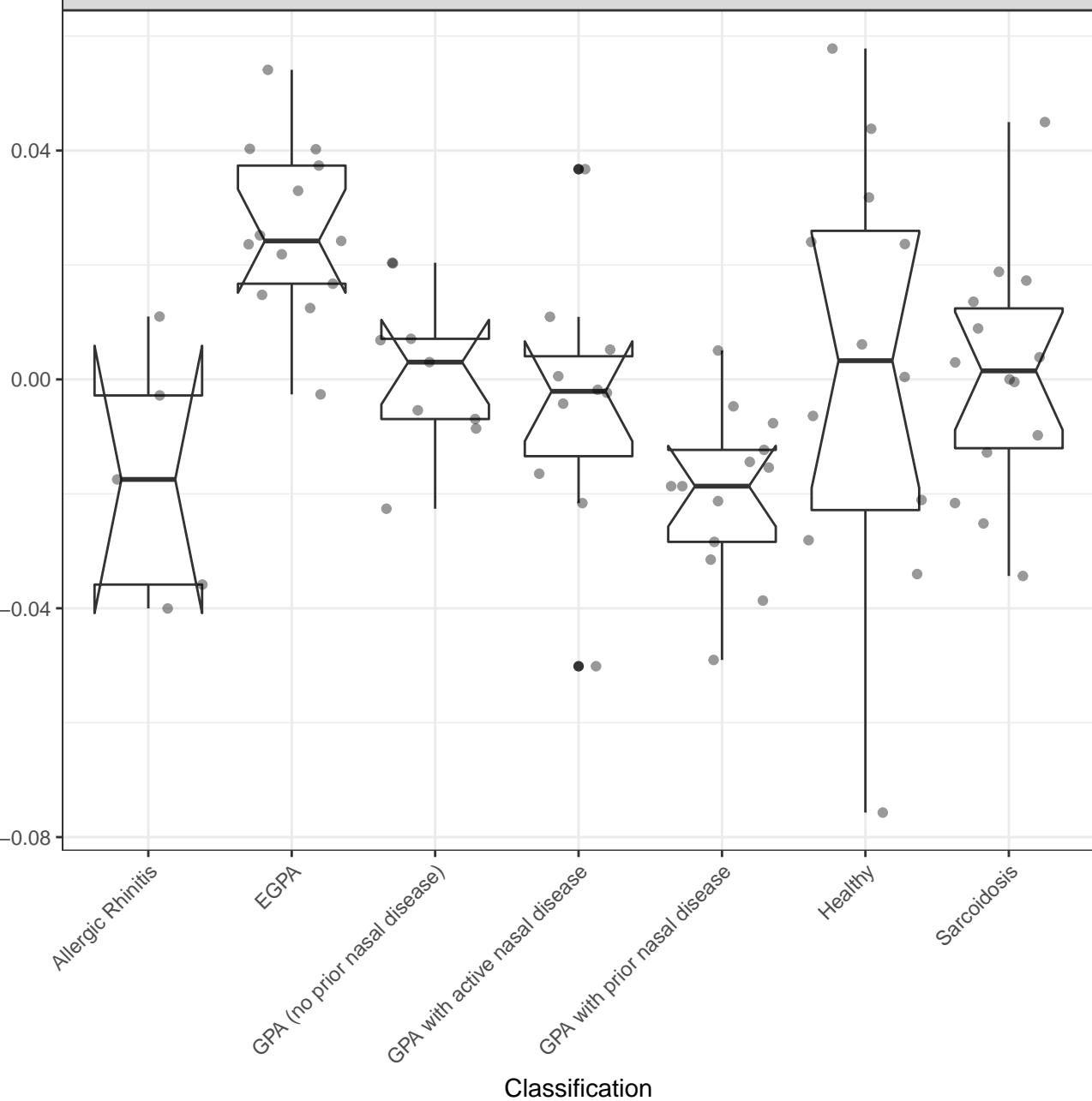
GPA with prior nasal disease

Healthy

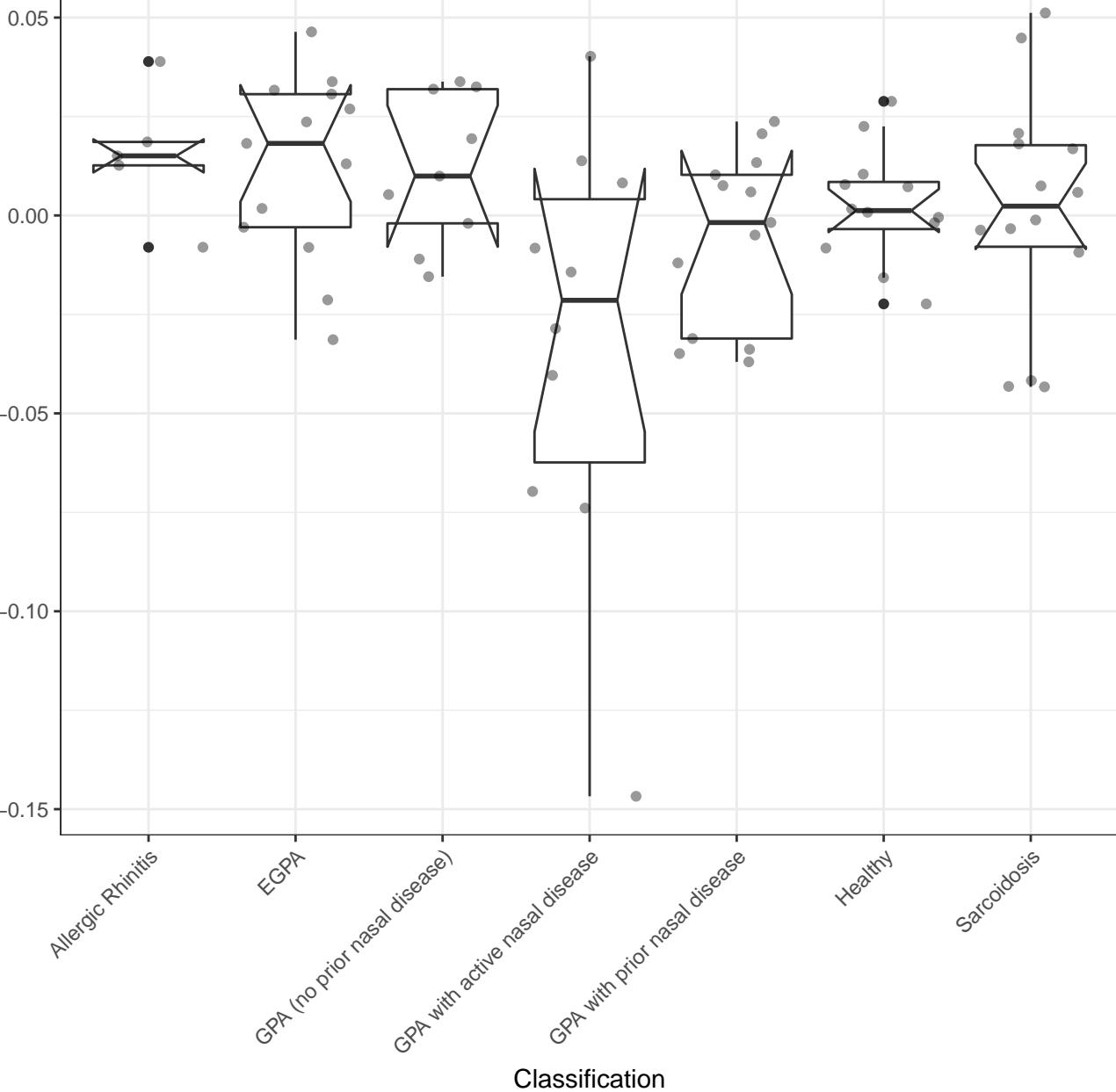
Sarcoidosis

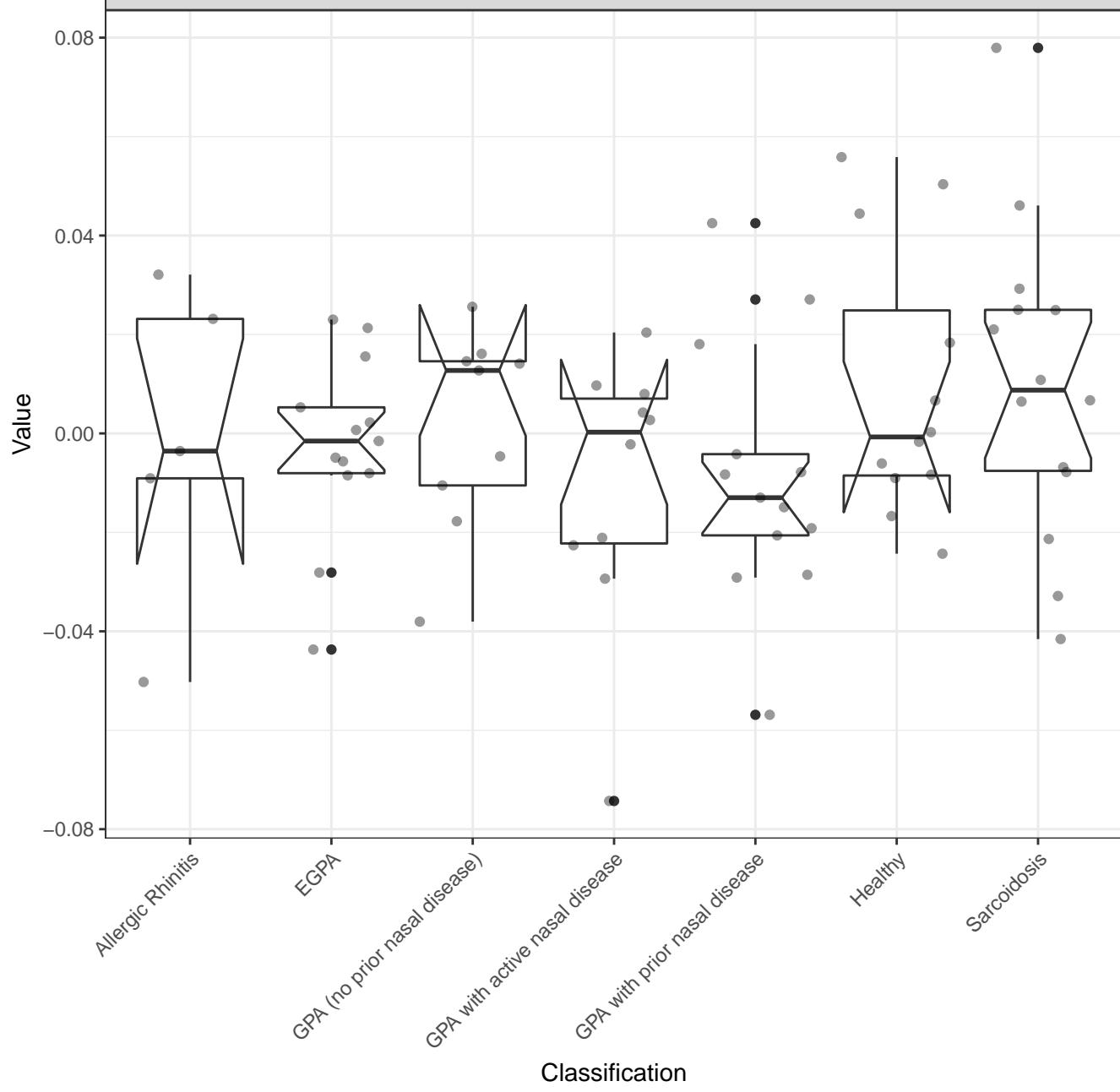
Classification

Value



Value





Value

0.03

0.00

-0.03

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

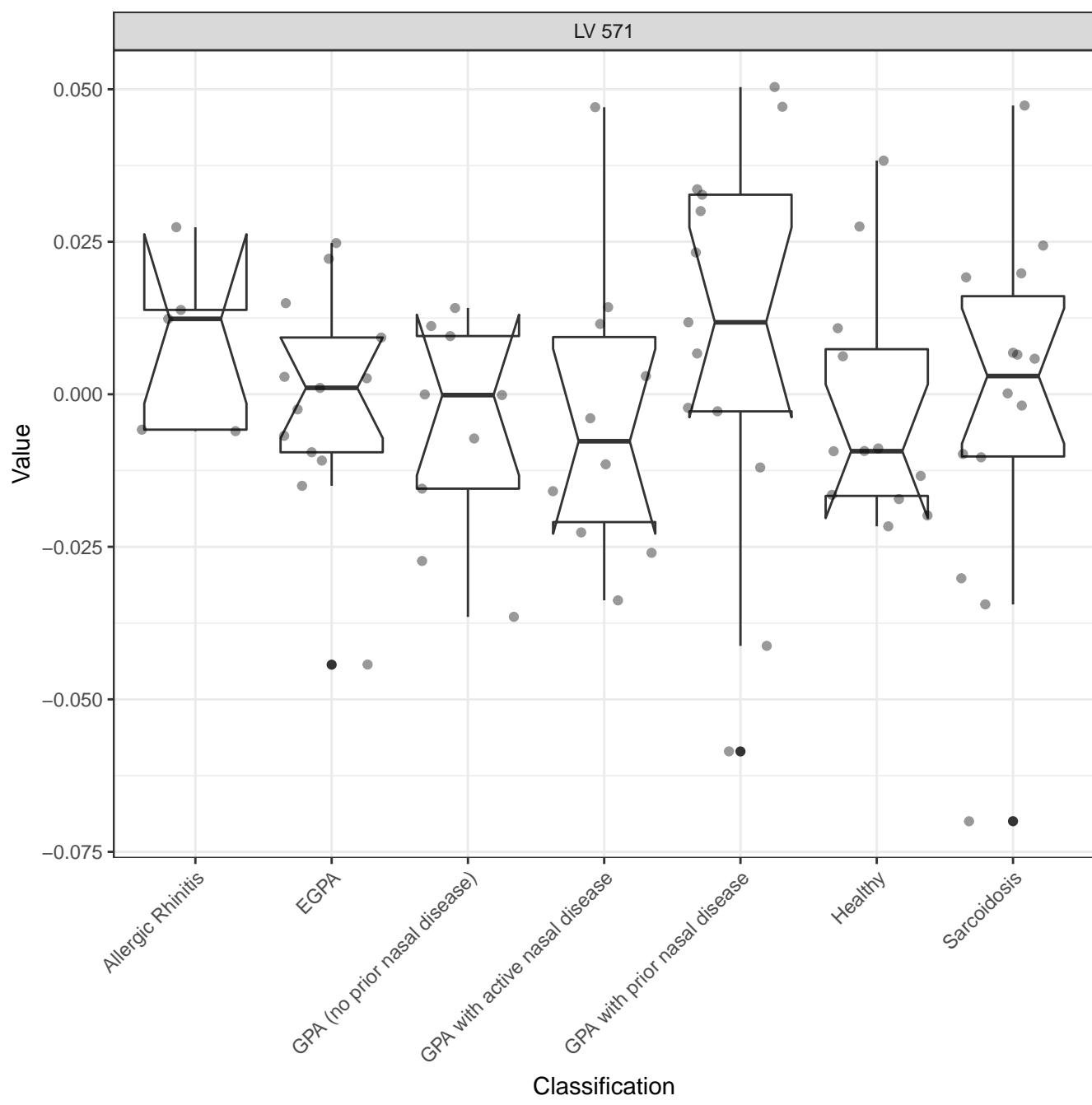
GPA with active nasal disease

GPA with prior nasal disease

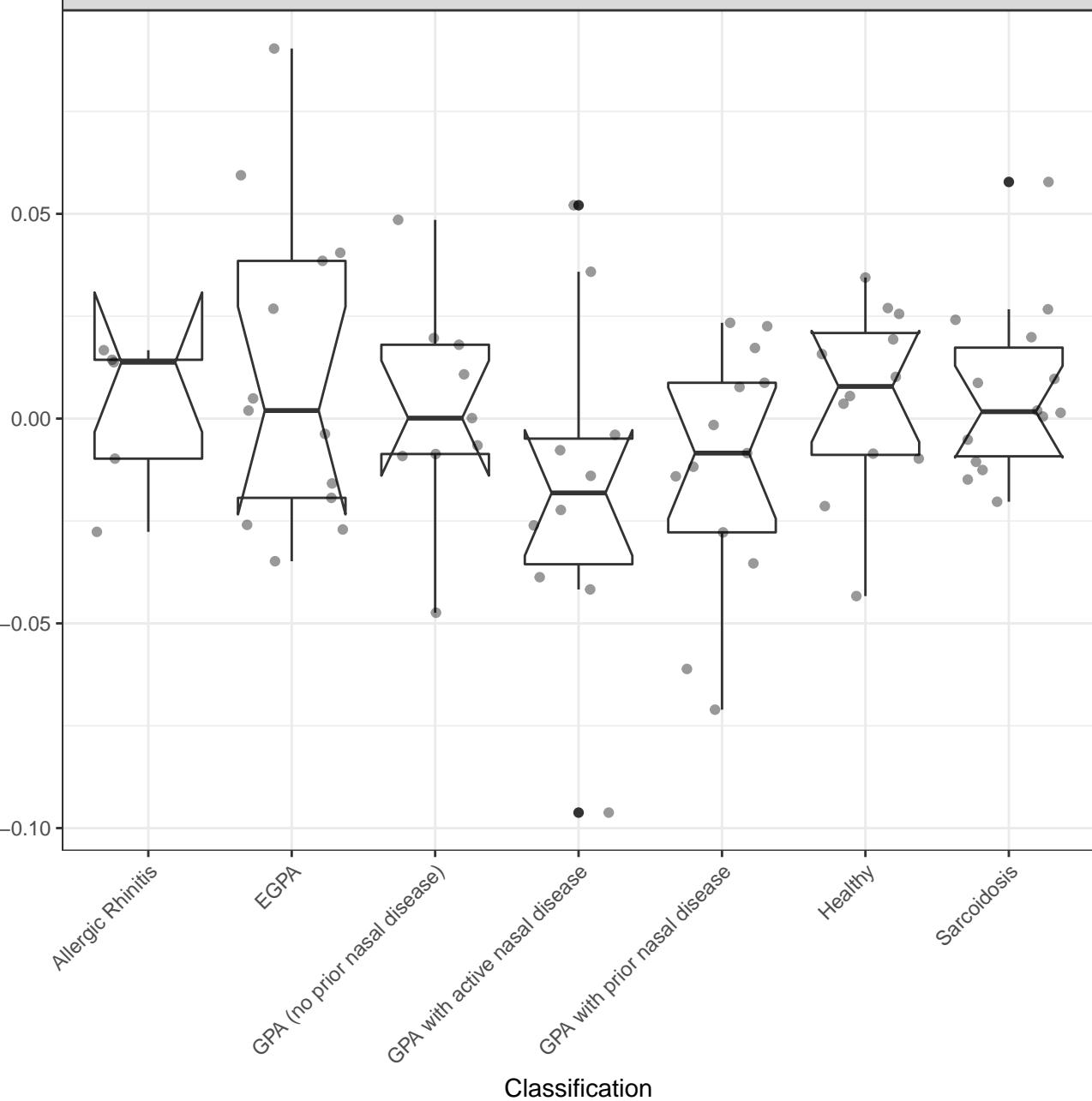
Healthy

Sarcoidosis

Classification



Value



LV 573

Value



Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

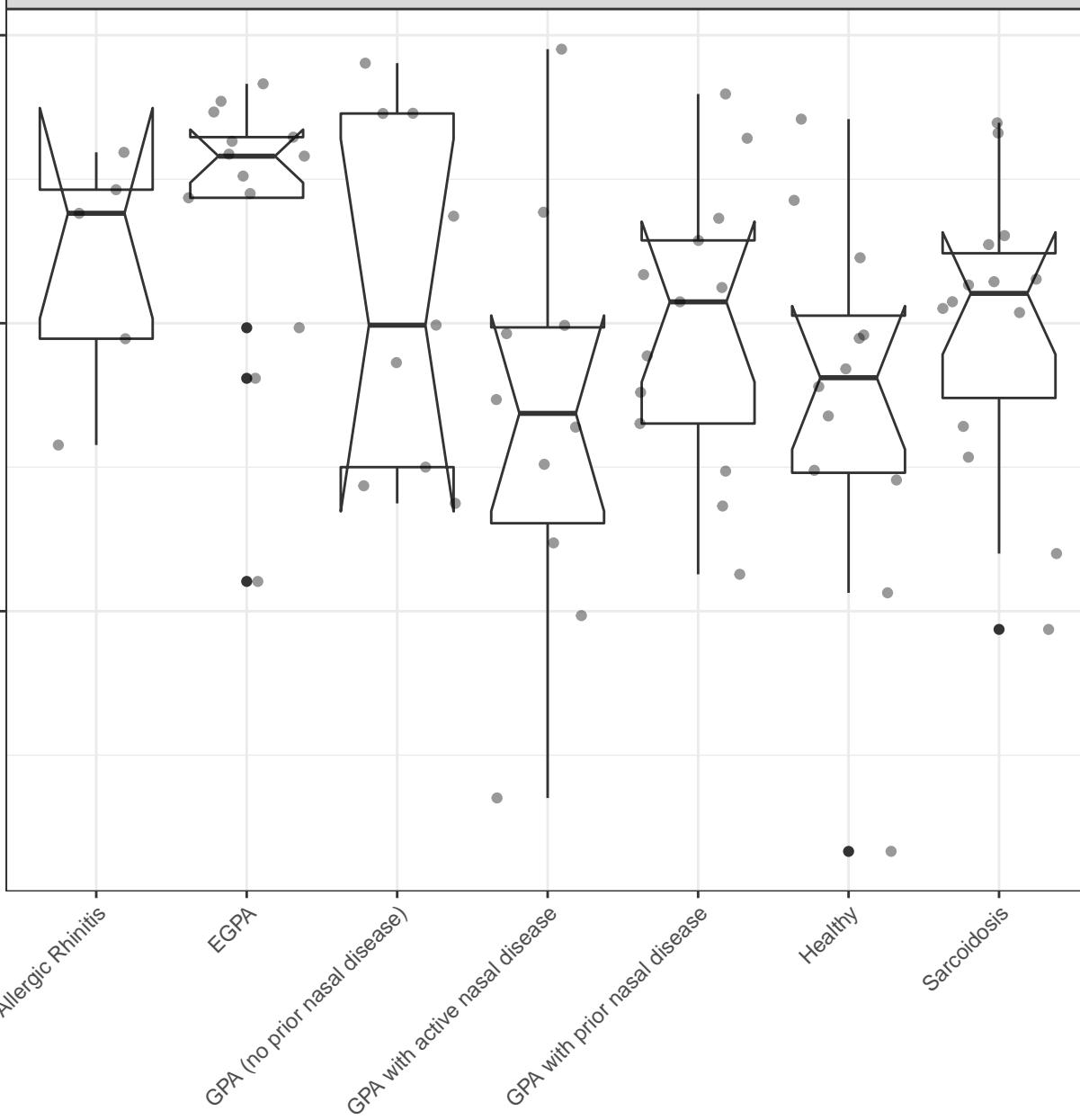
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

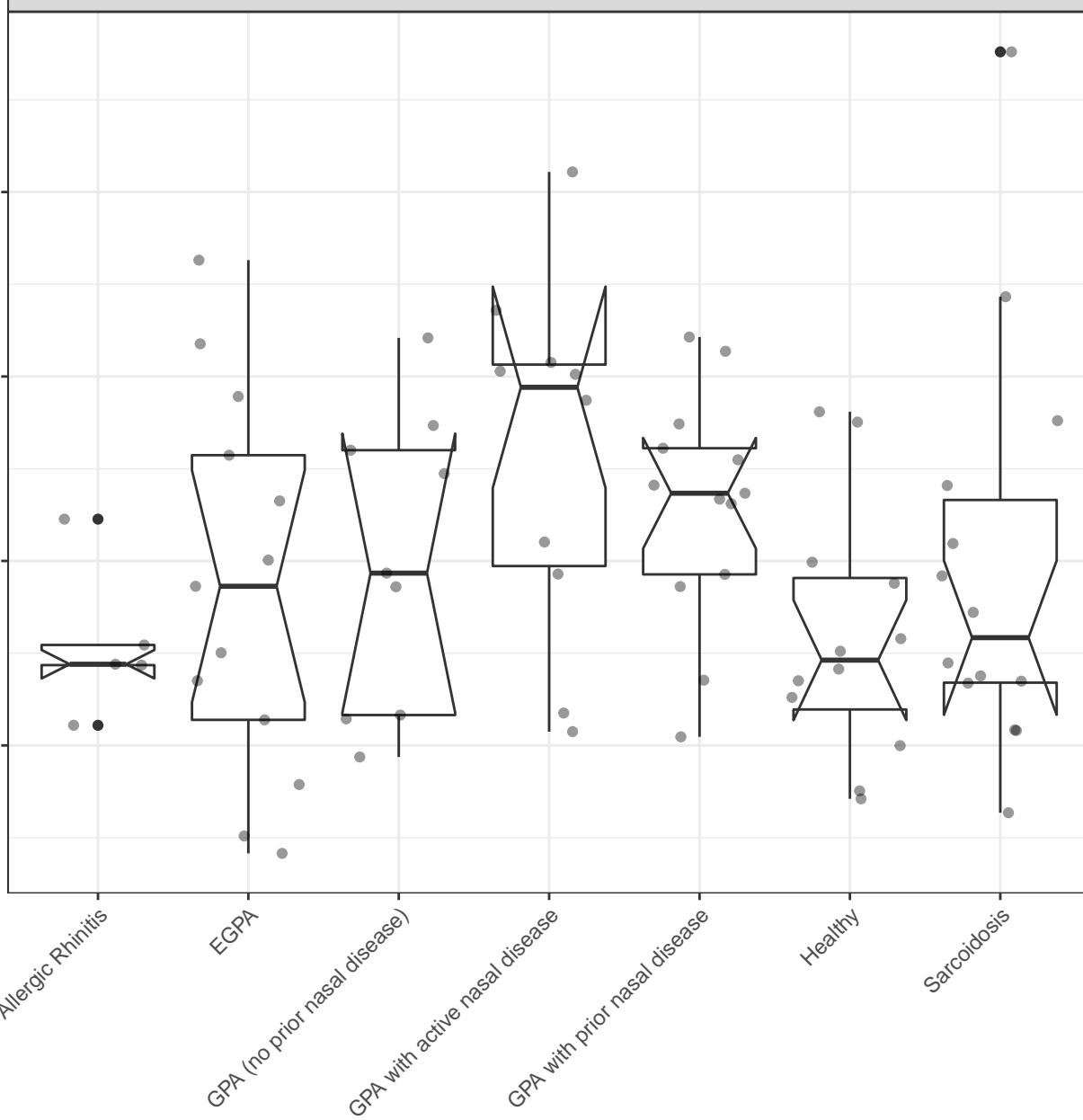
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.02

0.00

-0.02

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

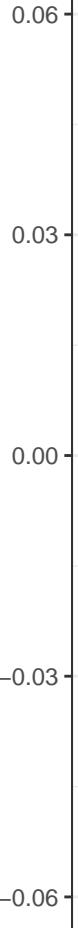
GPA with prior nasal disease

Healthy

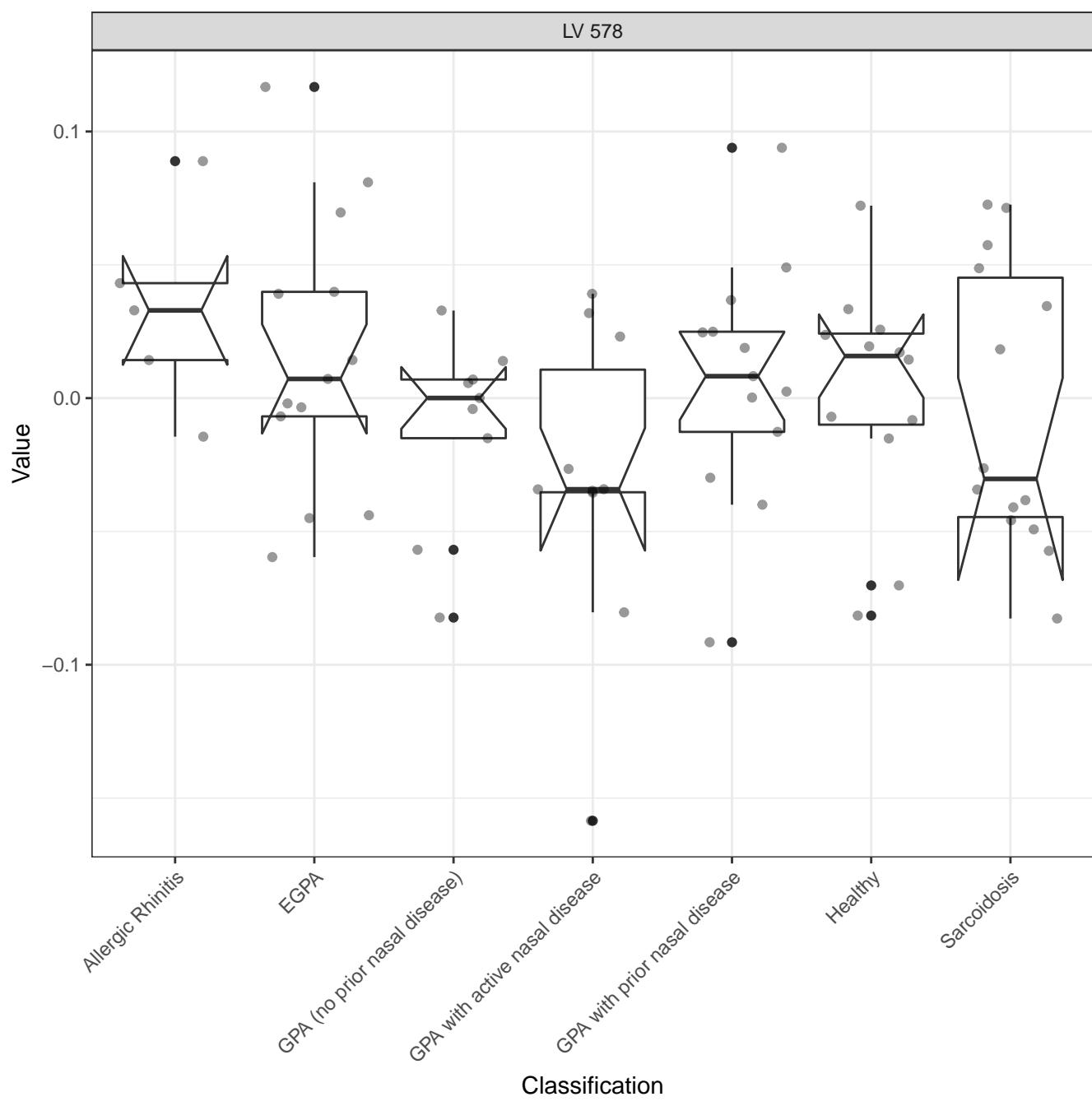
Sarcoidosis

Classification

Value



Classification



Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.01

-0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

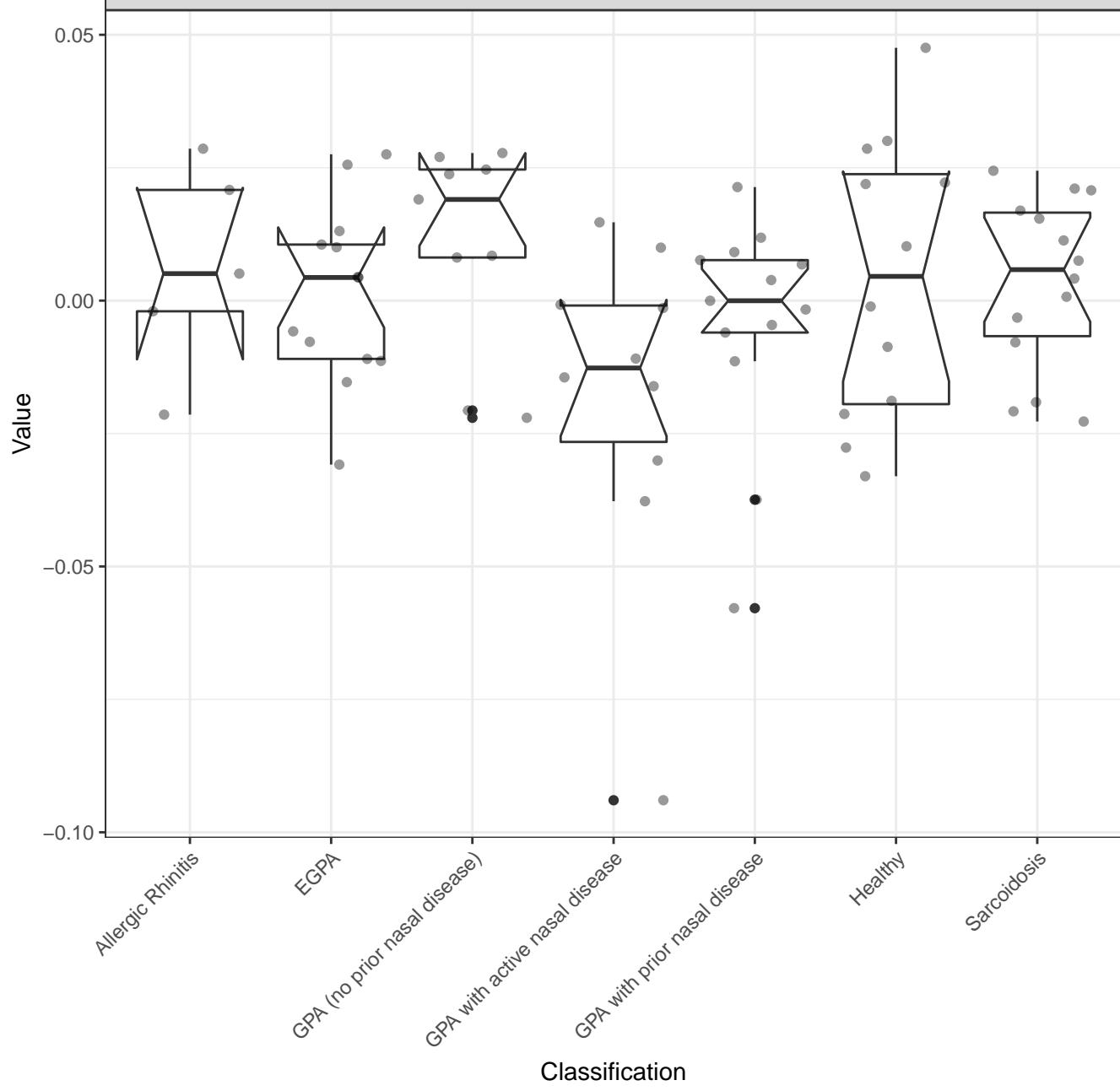
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

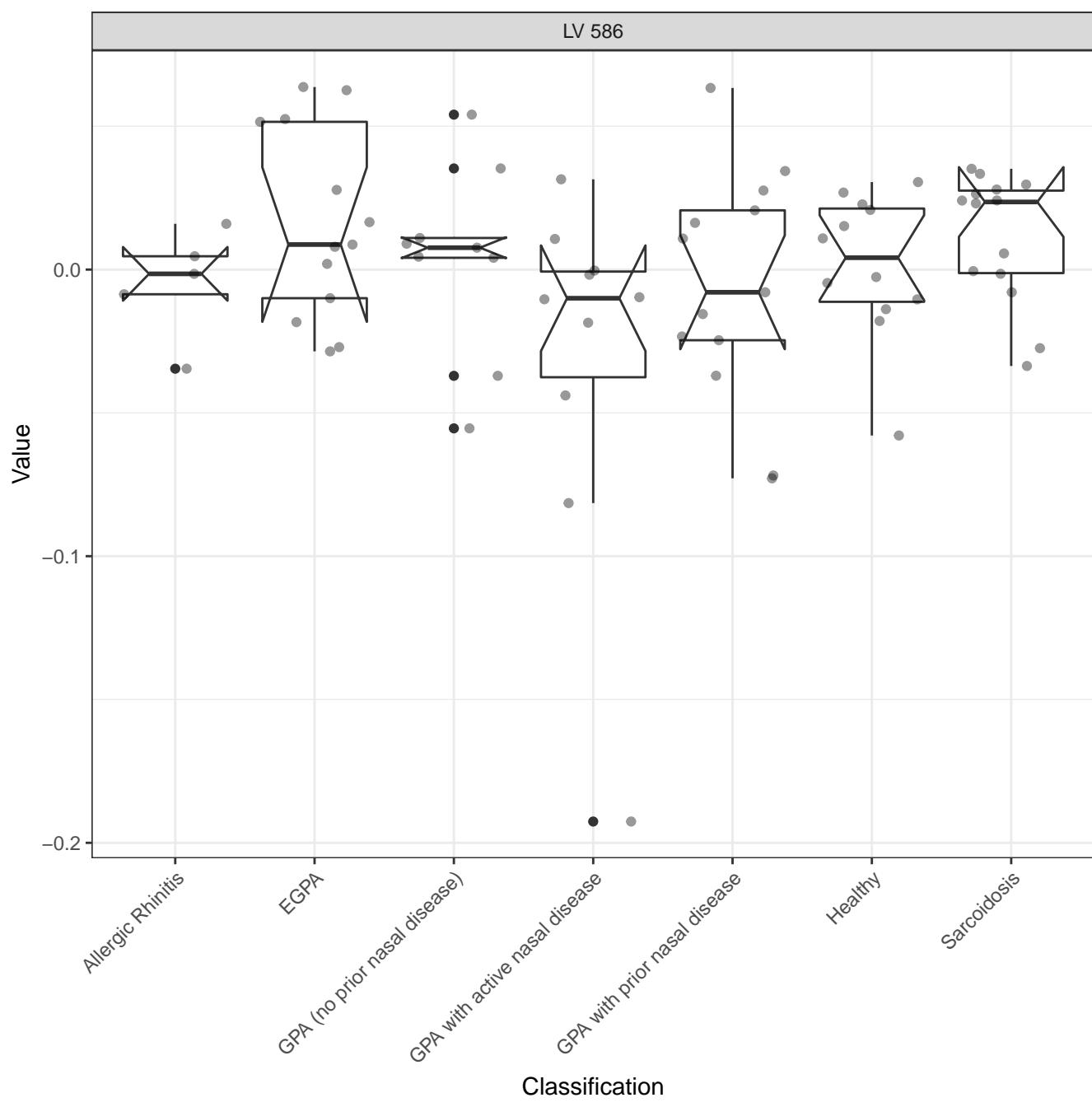
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

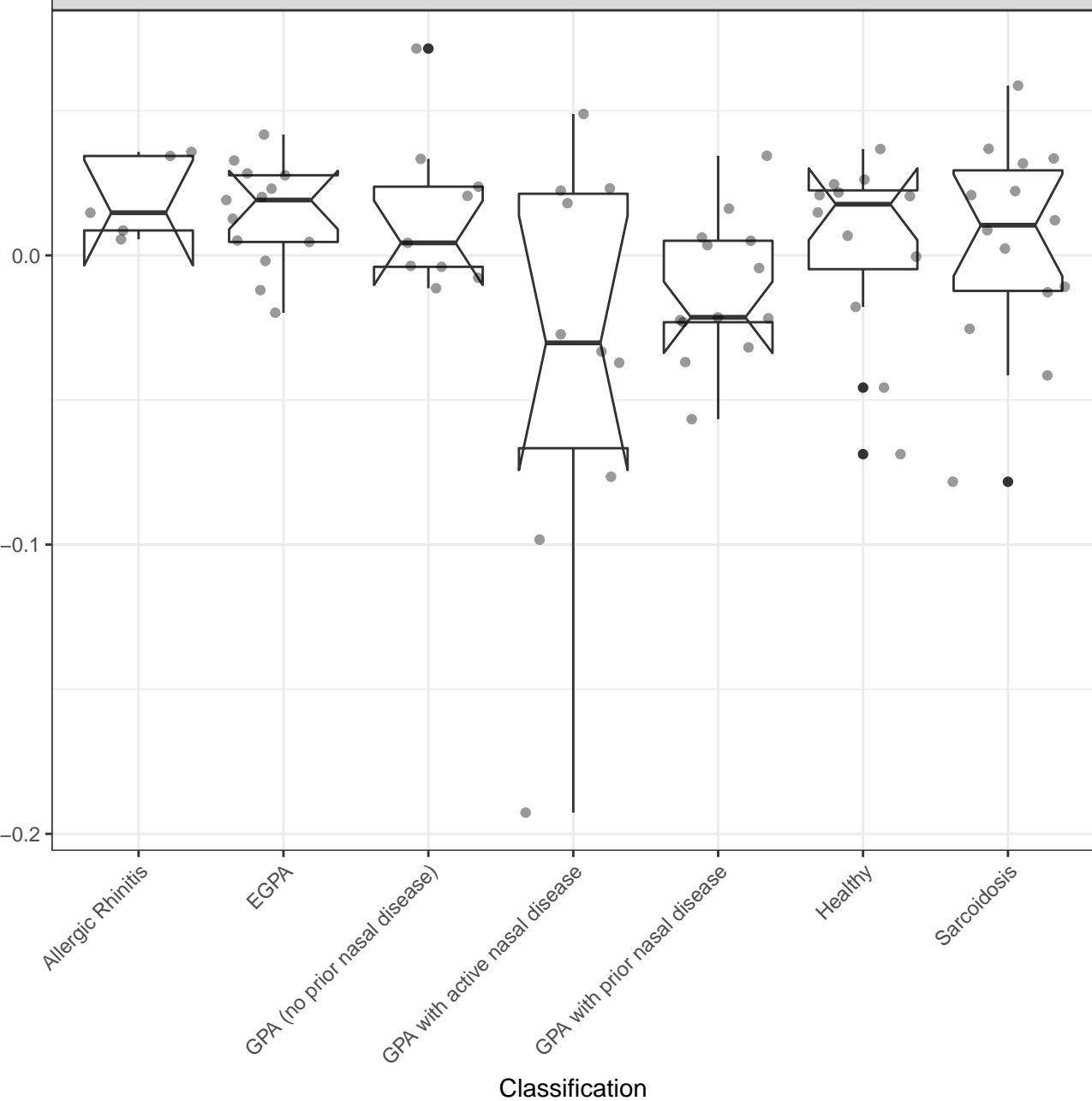
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.06  
0.03  
0.00  
-0.03  
-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

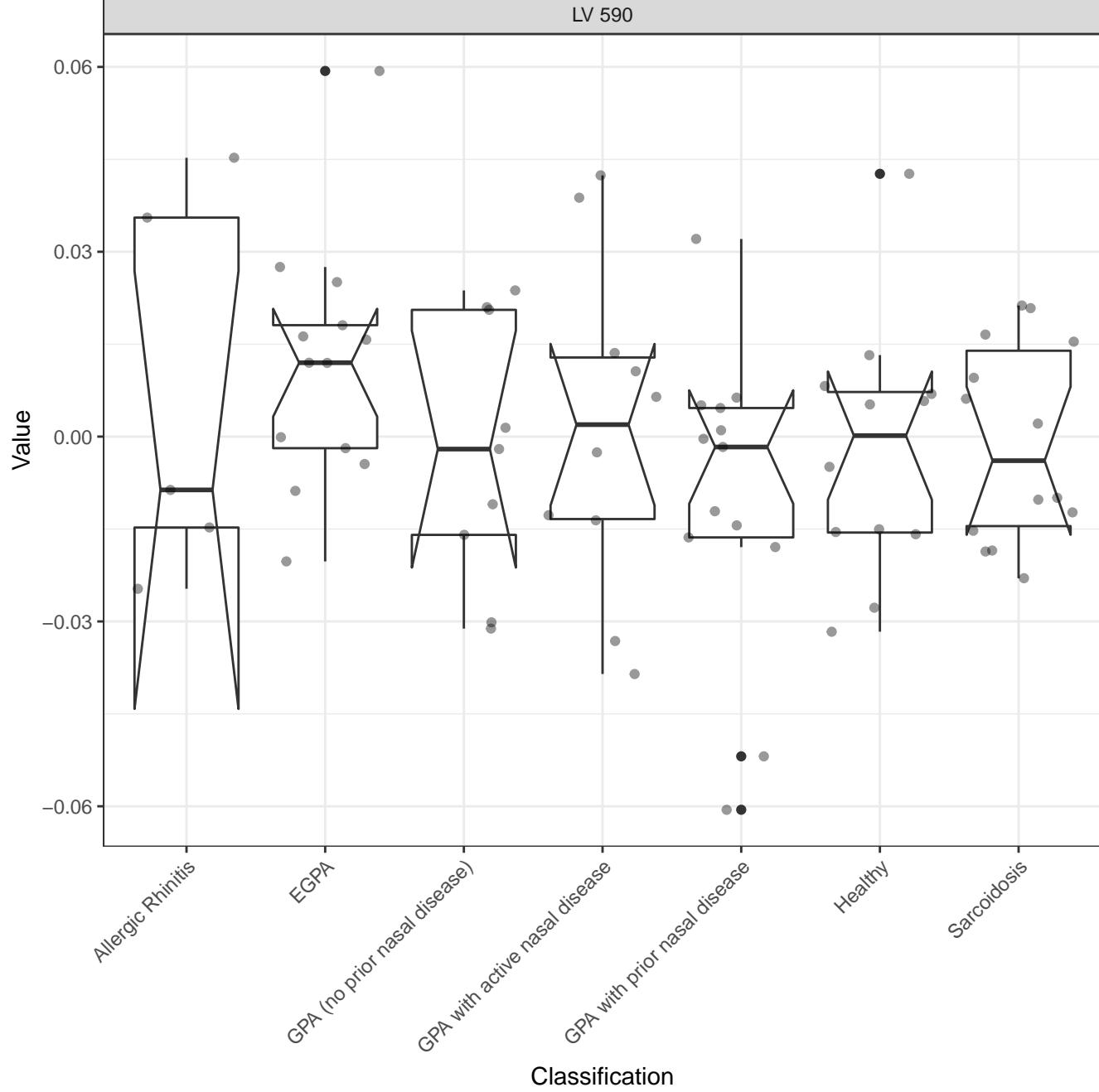
GPA with active nasal disease

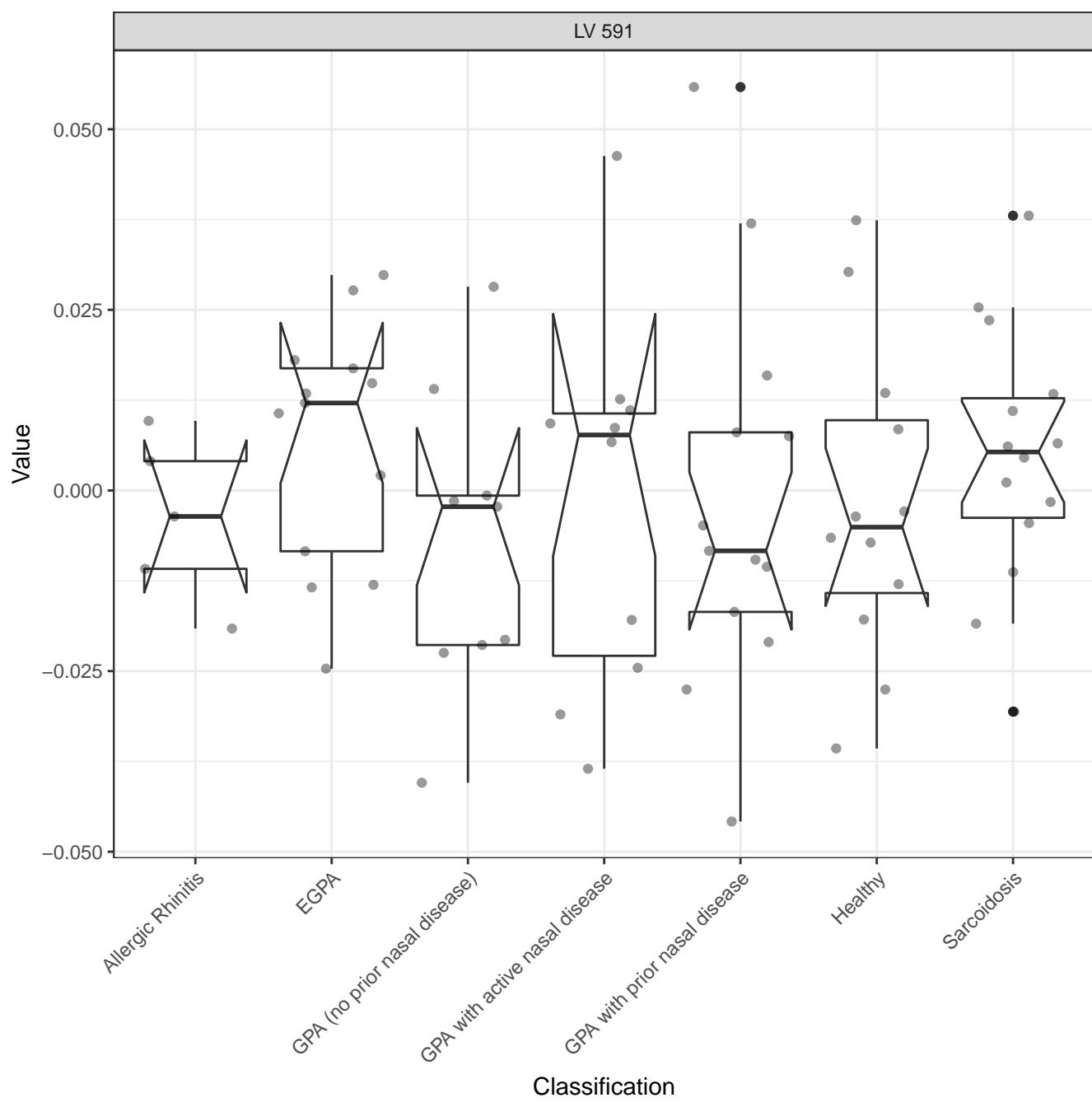
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

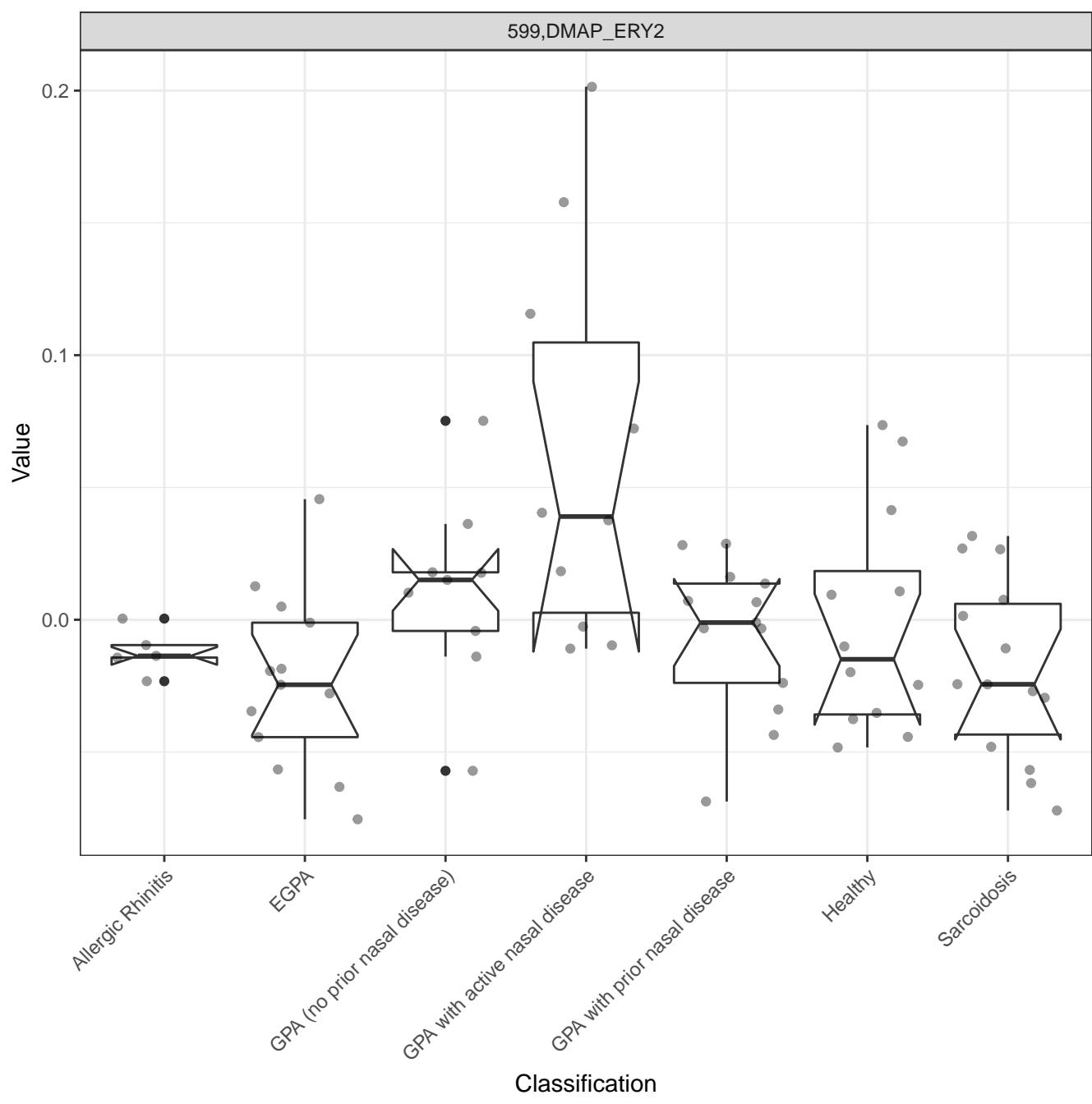
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.01

-0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

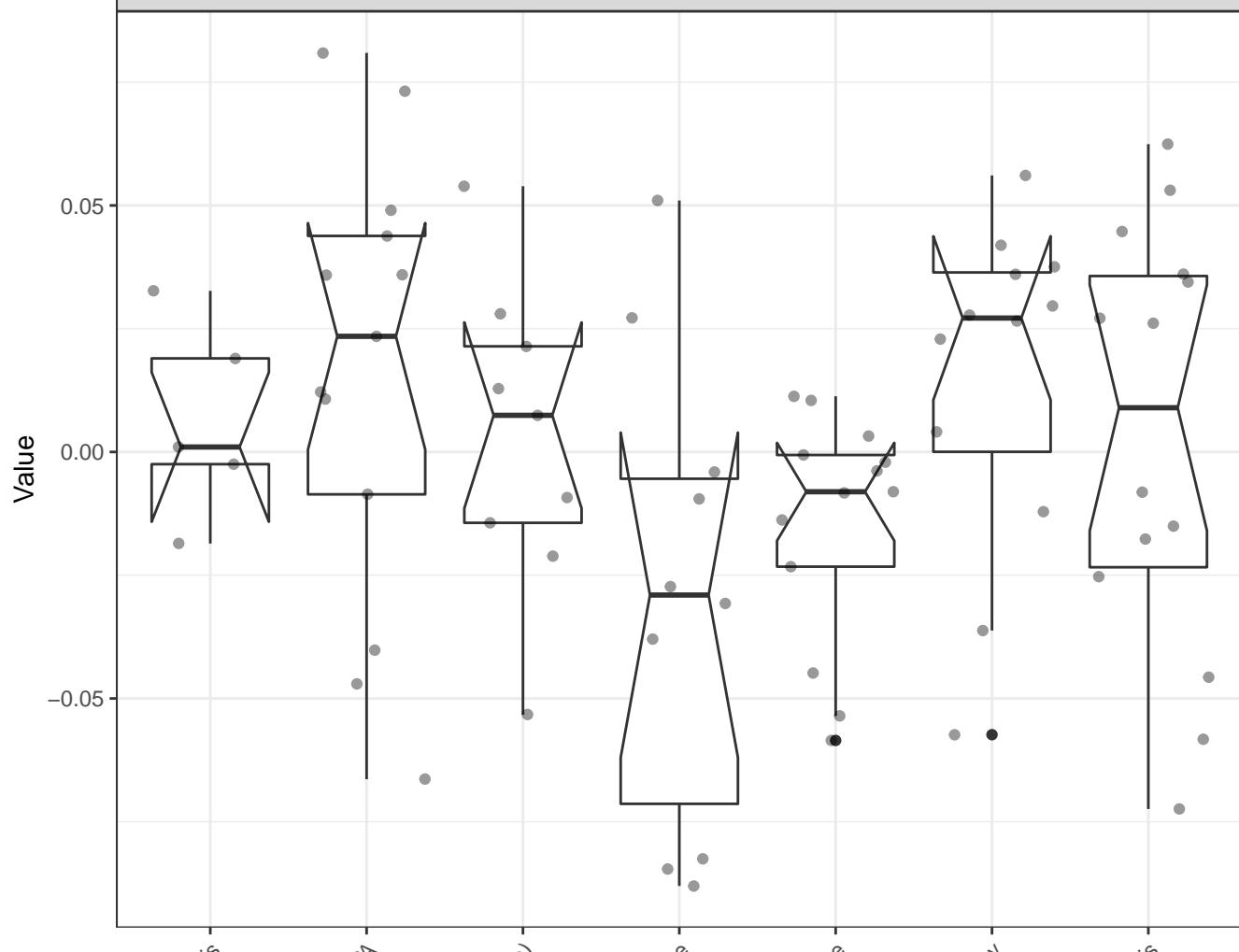
Allergic Rhinitis      EGPA      GPA (no prior nasal disease)      GPA with active nasal disease      GPA with prior nasal disease      Healthy      Sarcoidosis

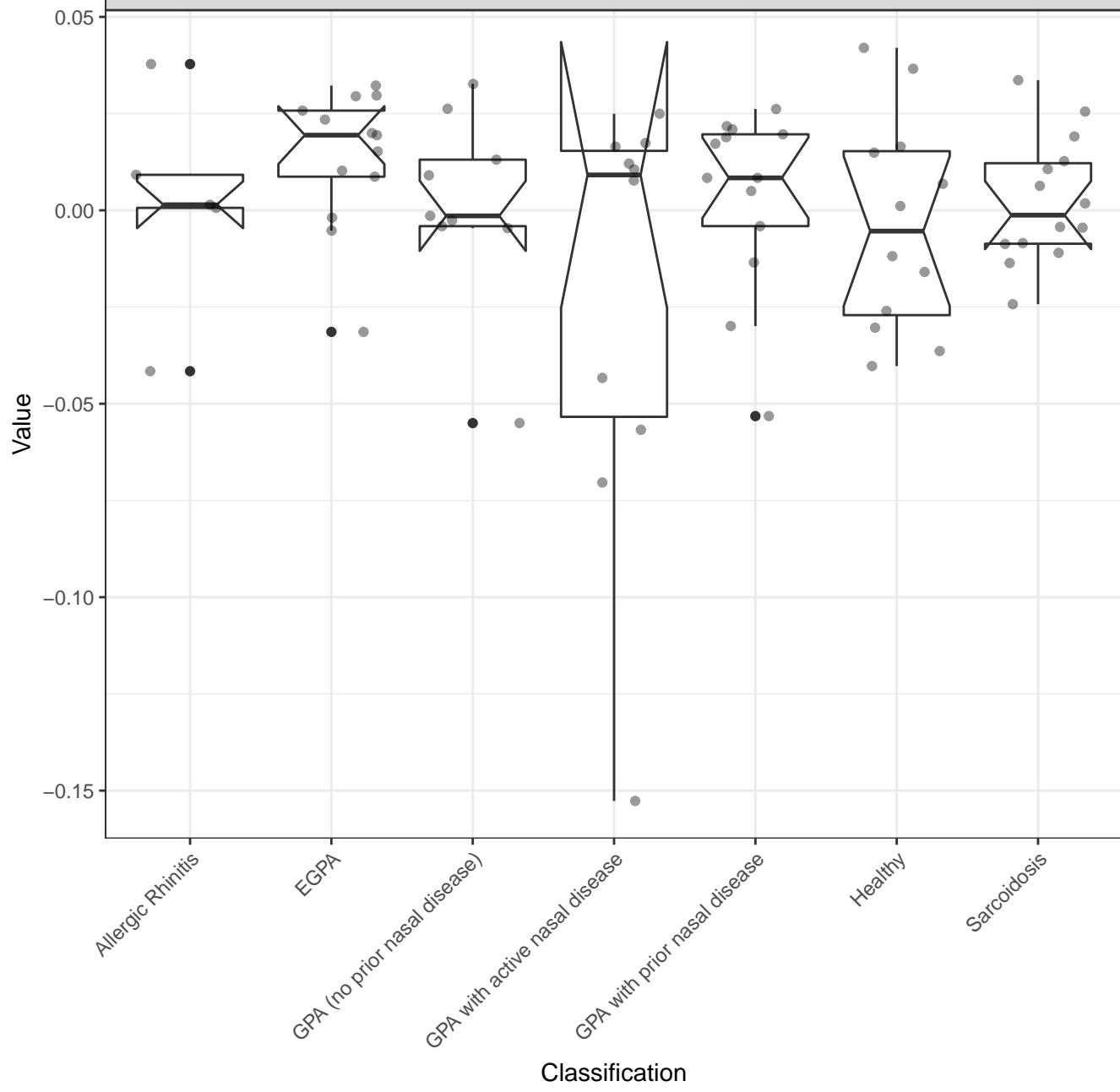
Classification

0.05

0.00

-0.05





## 603,SVM Neutrophils

Value

1.2

0.8

0.4

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

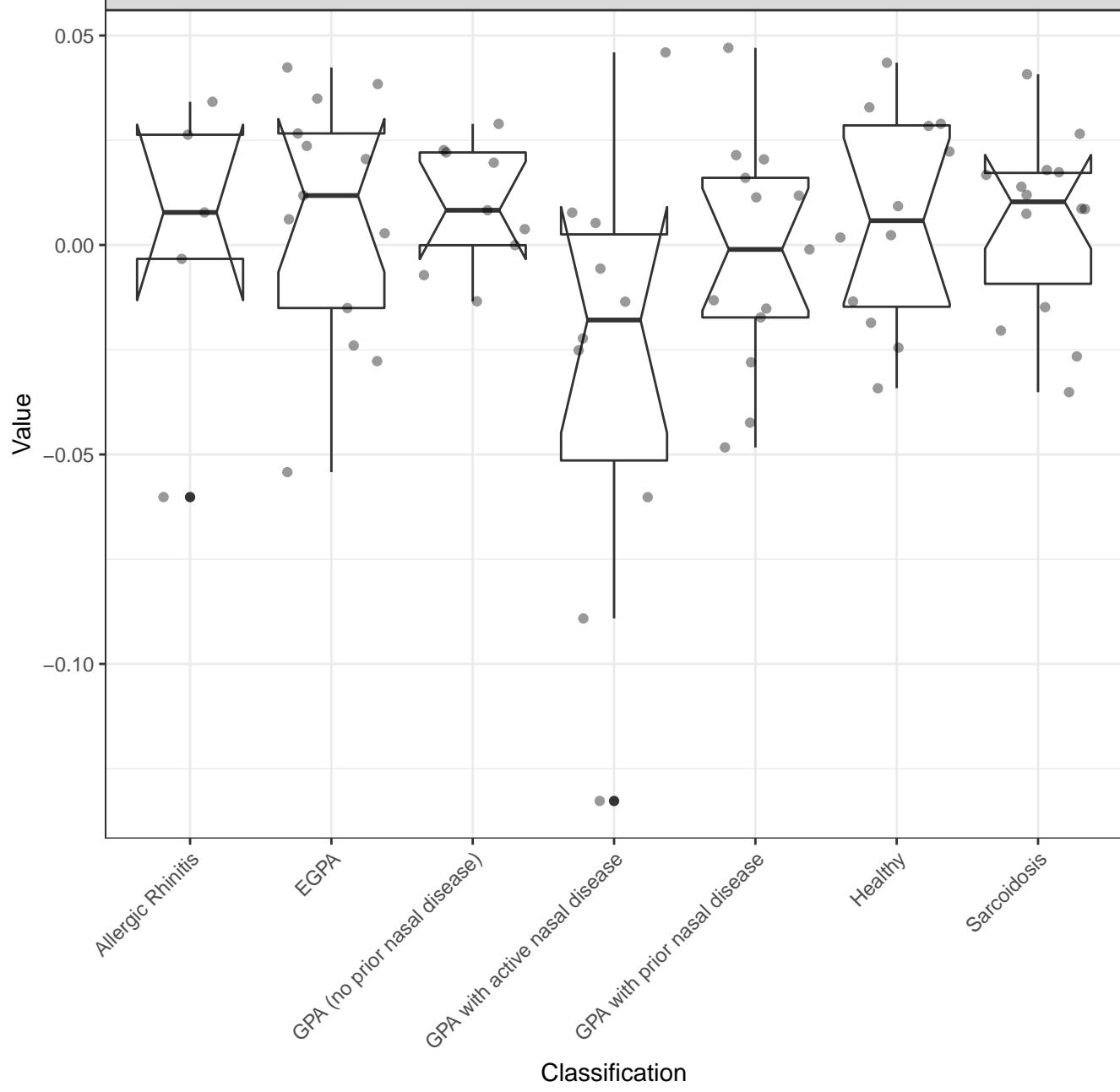
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 604



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

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

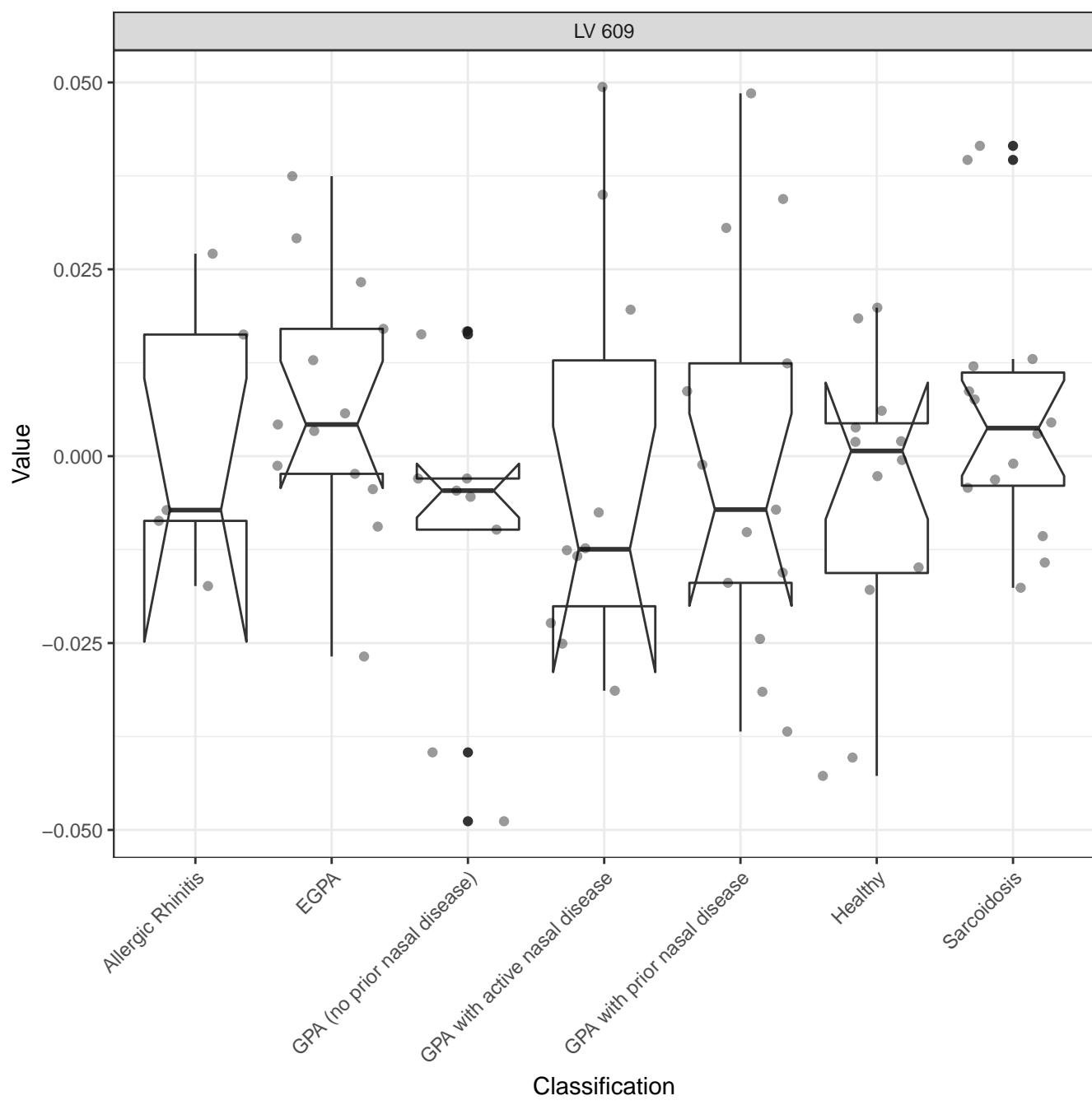
GPA with prior nasal disease

Healthy

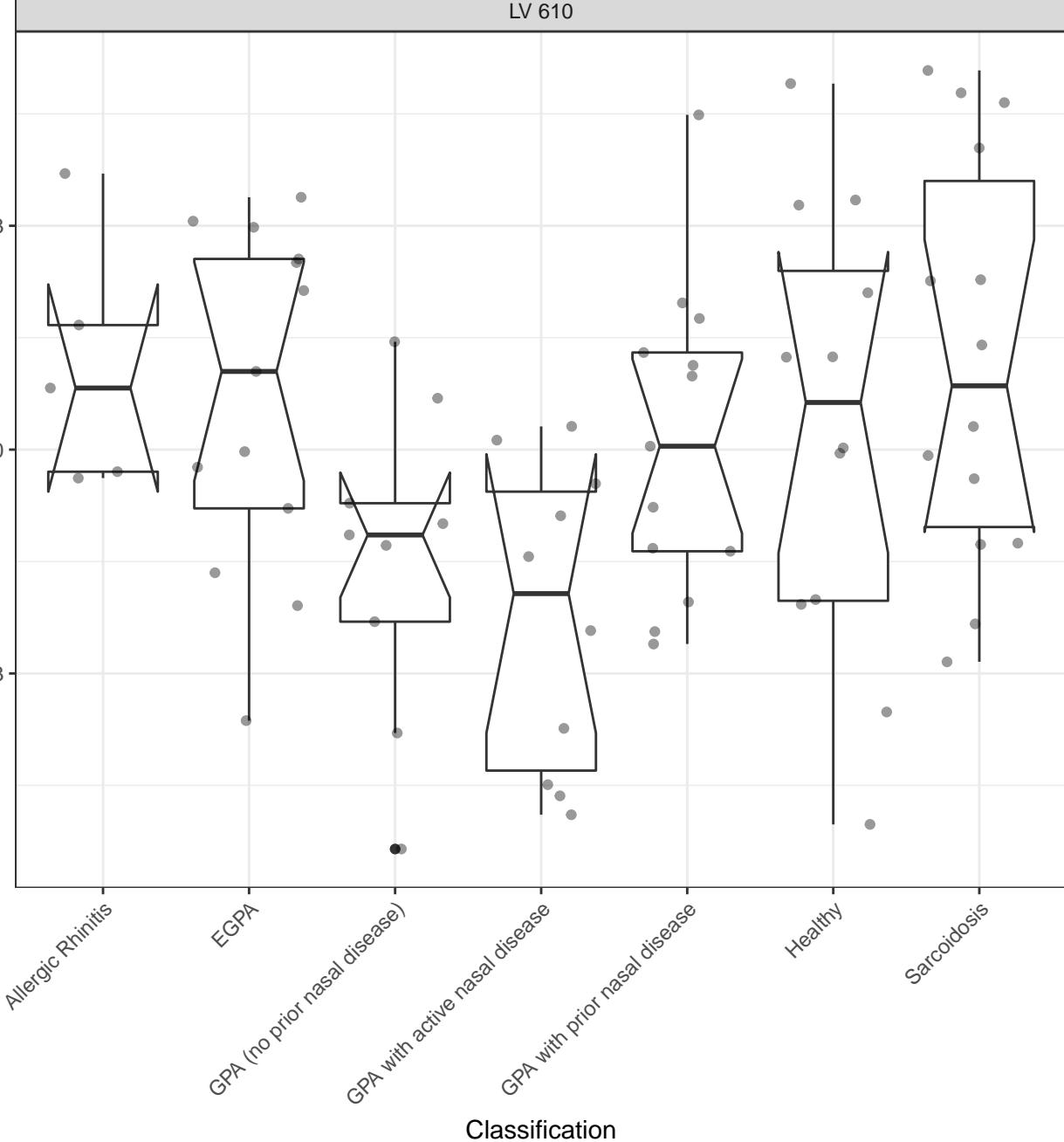
Sarcoidosis

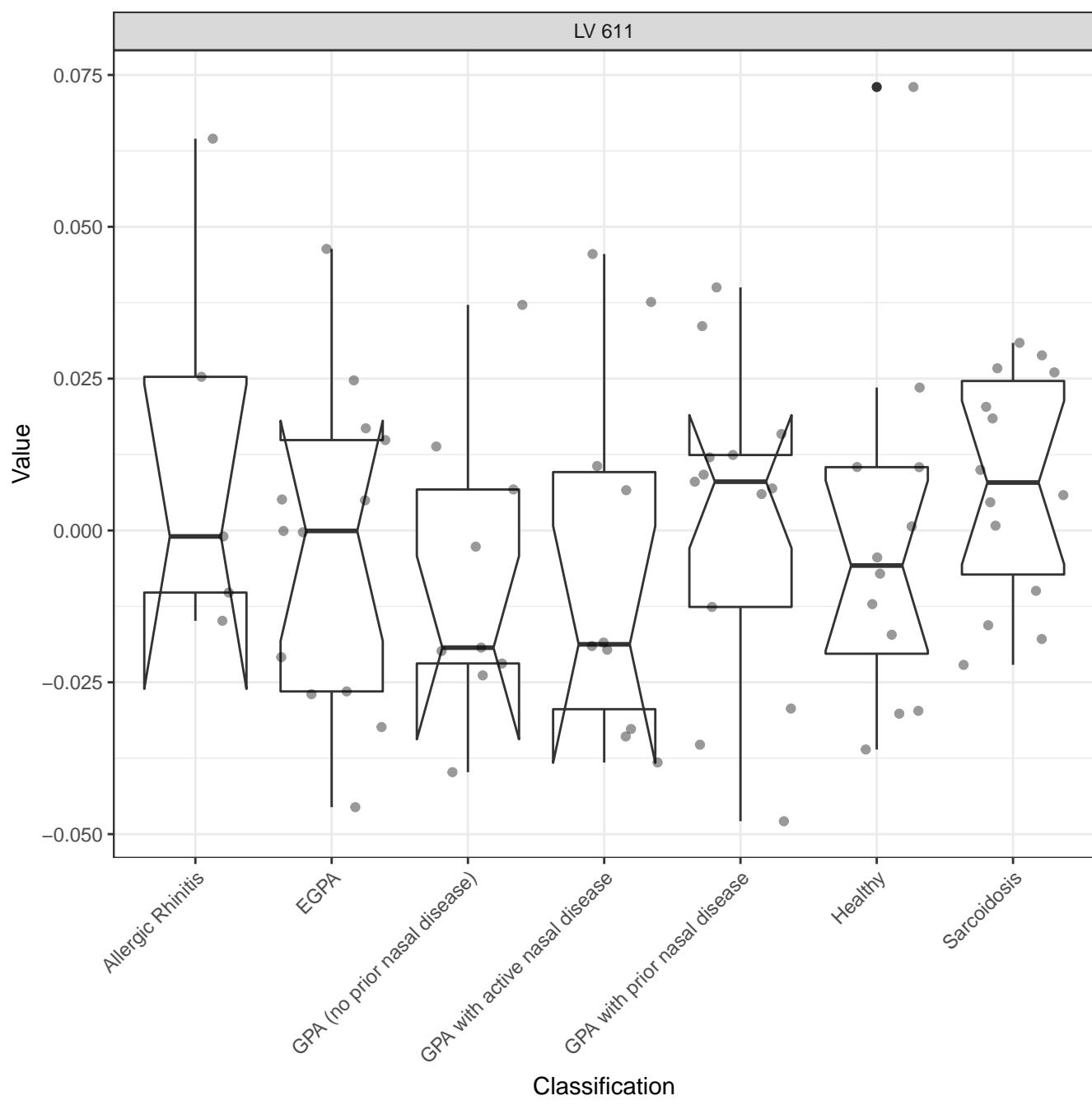
Classification

LV 609



Value





## 612,REACTOME\_GAB1\_SIGNALOSOME

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 613,KEGG\_LYSOSOME

Value

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

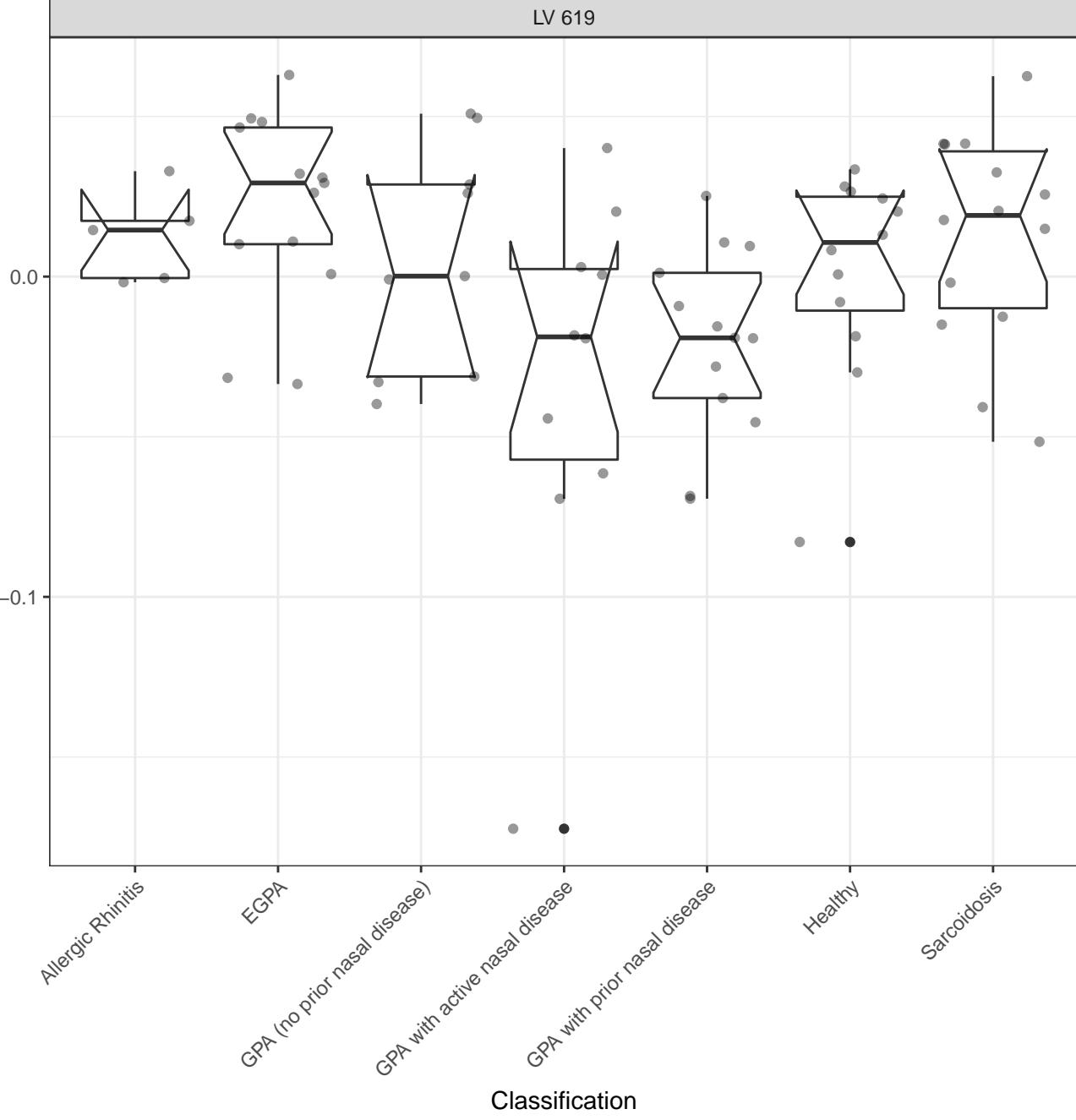
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.04  
0.02  
0.00  
-0.02  
-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

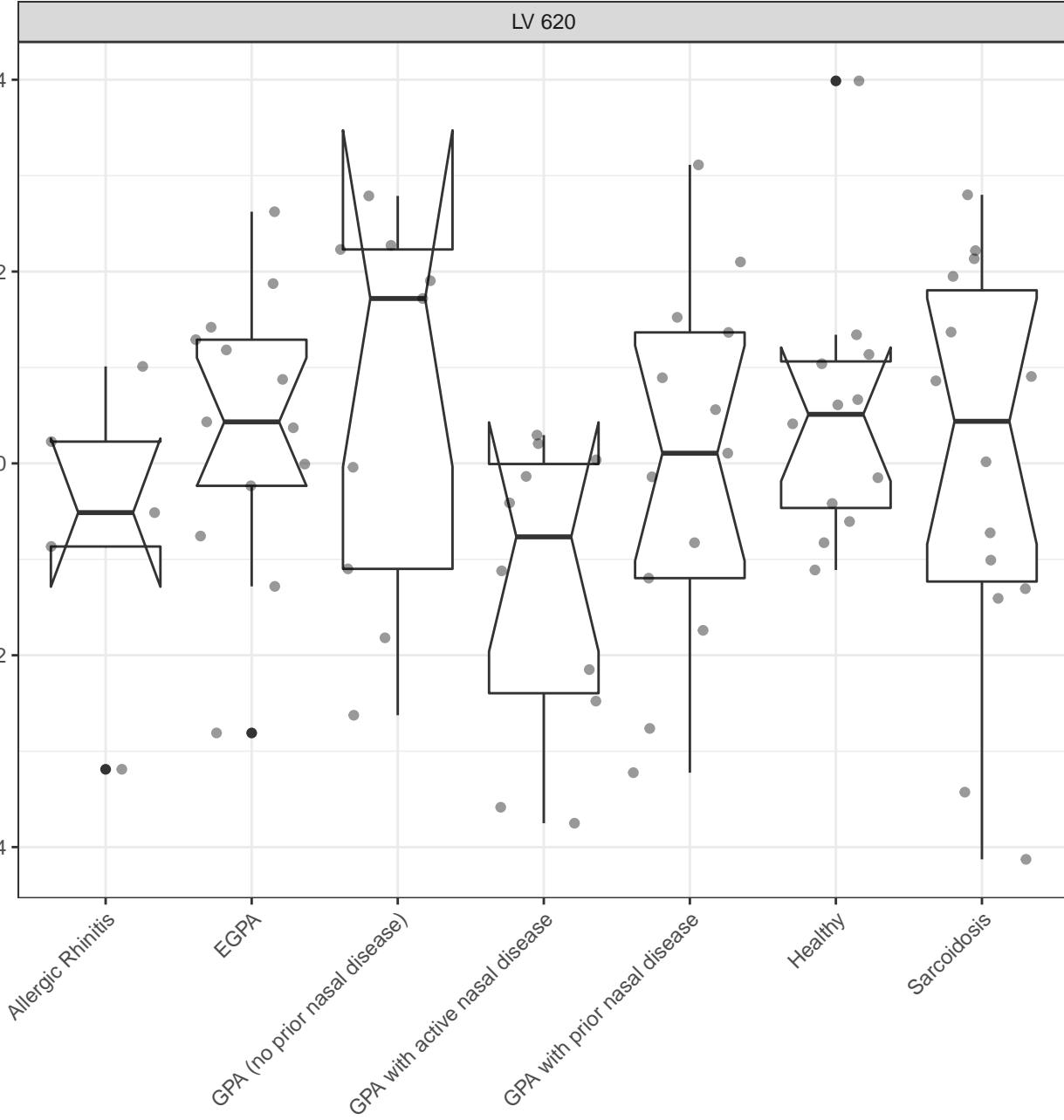
GPA with active nasal disease

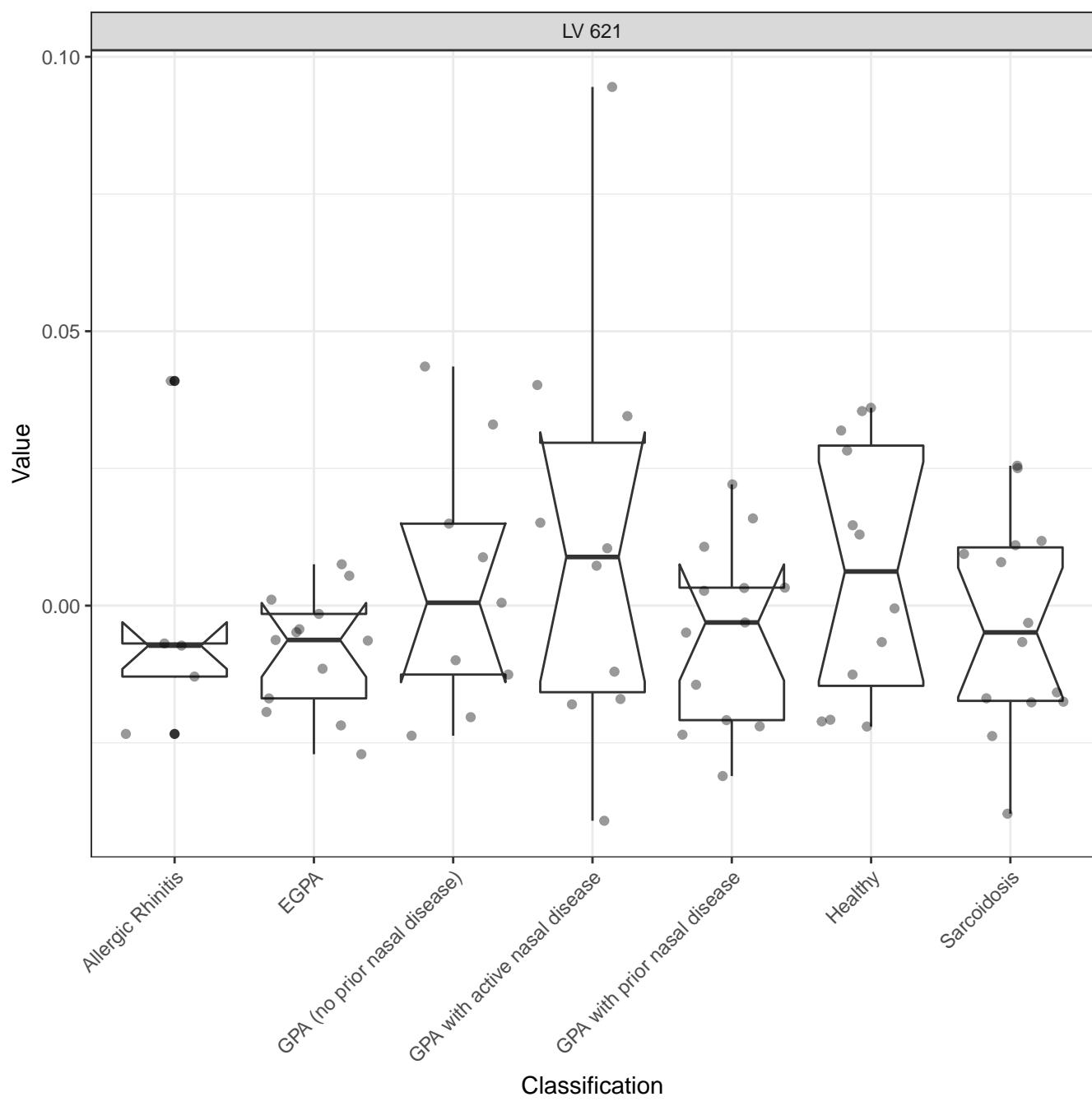
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

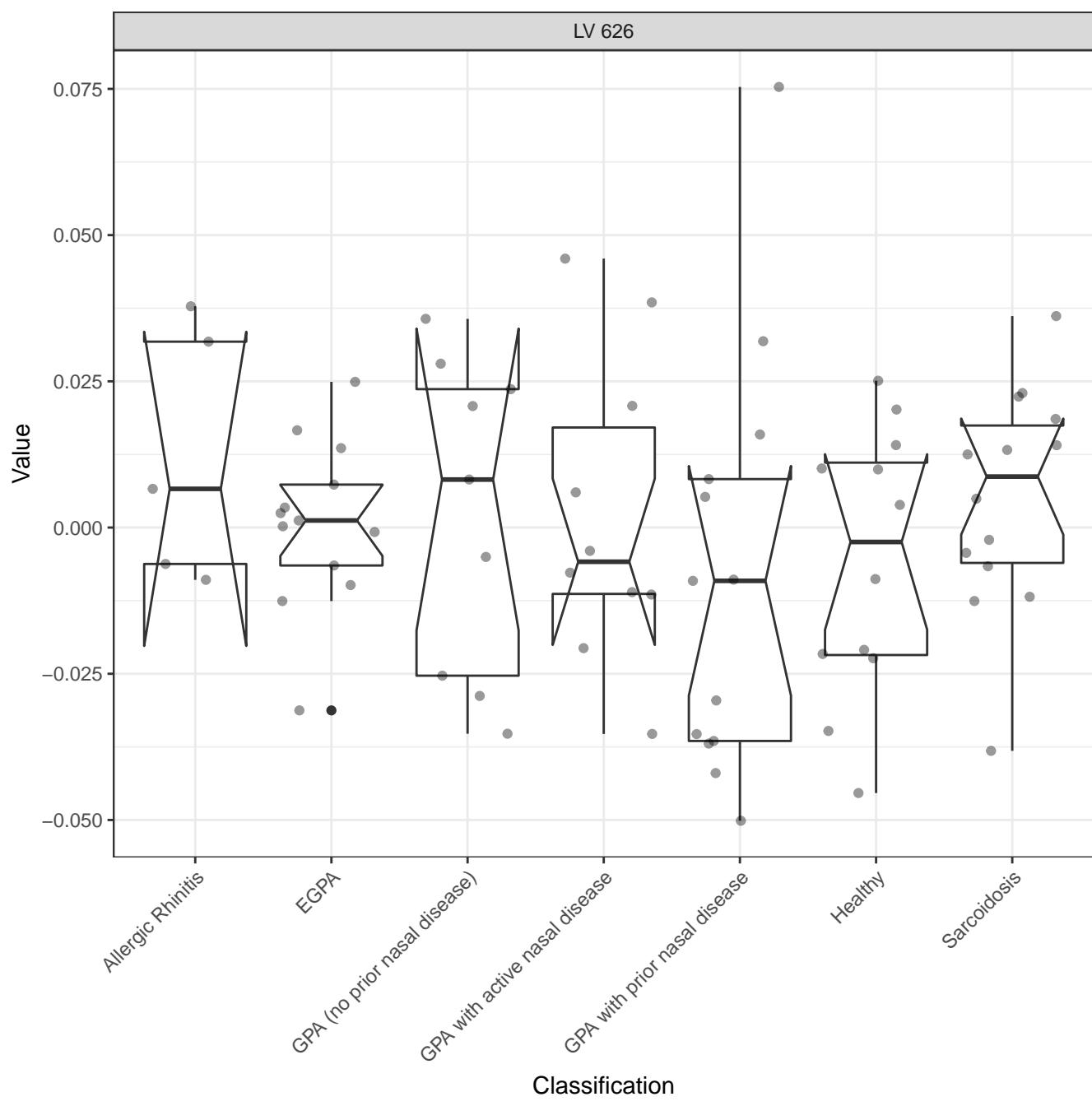
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

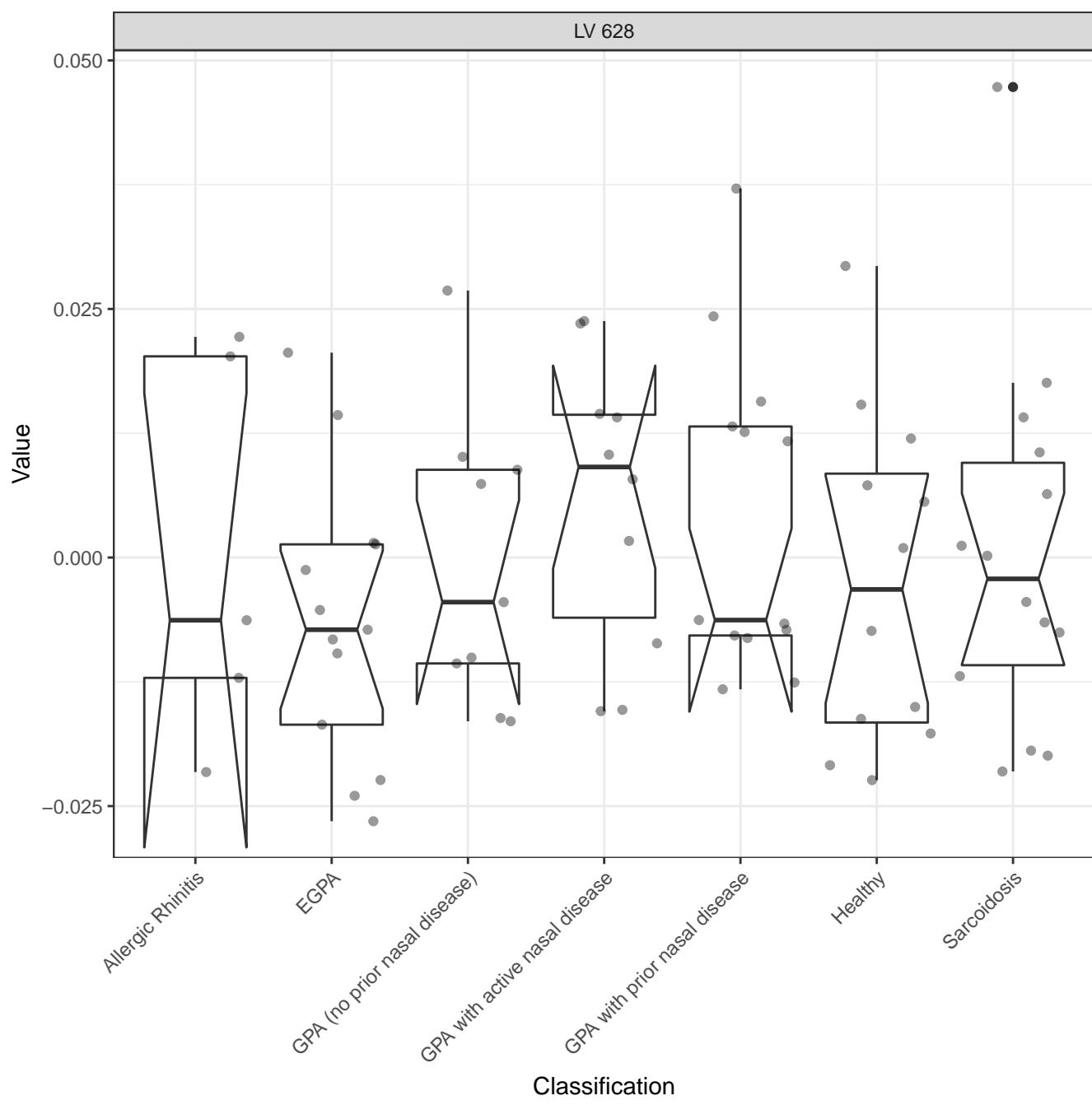
GPA with prior nasal disease

Healthy

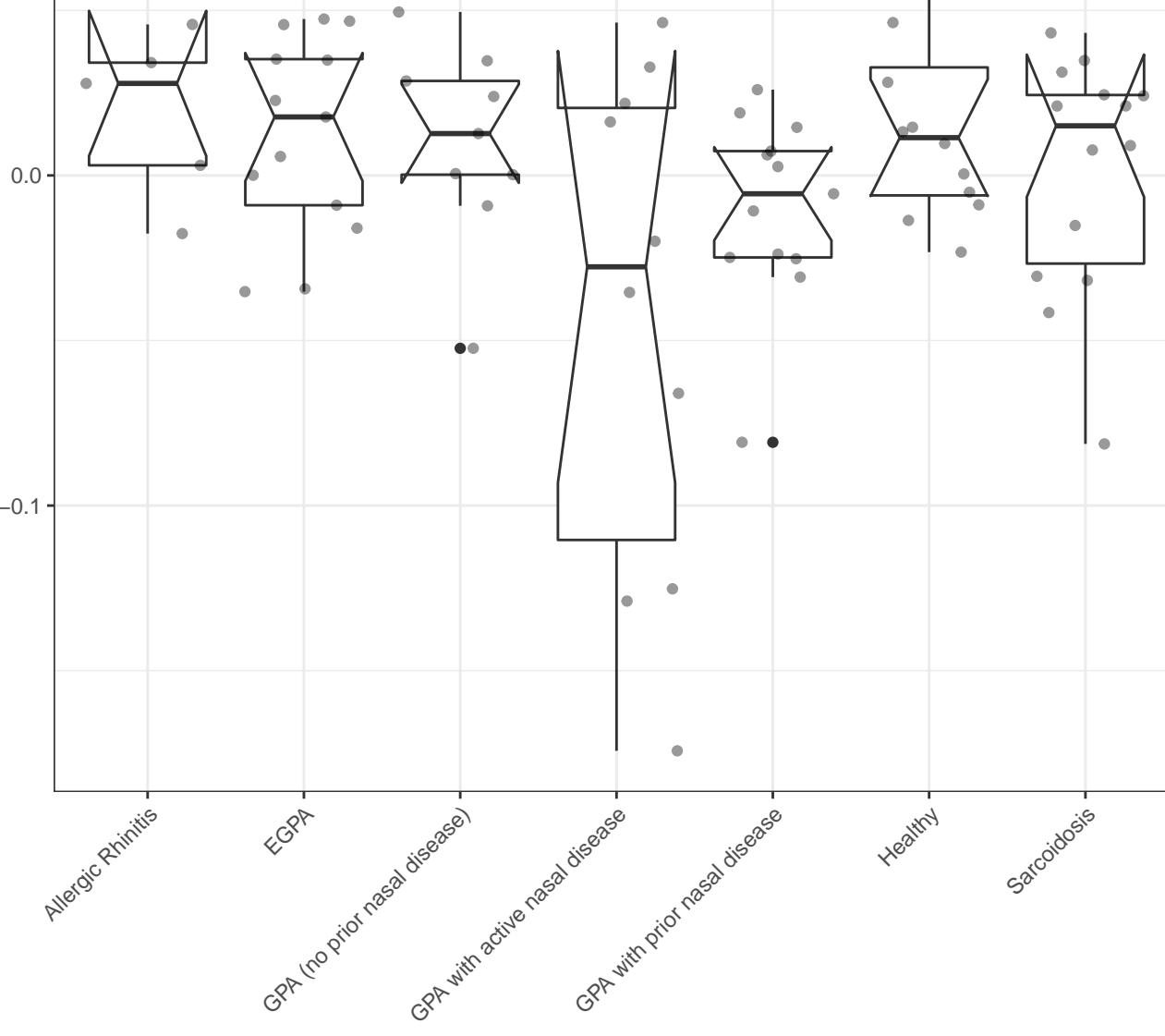
Sarcoidosis

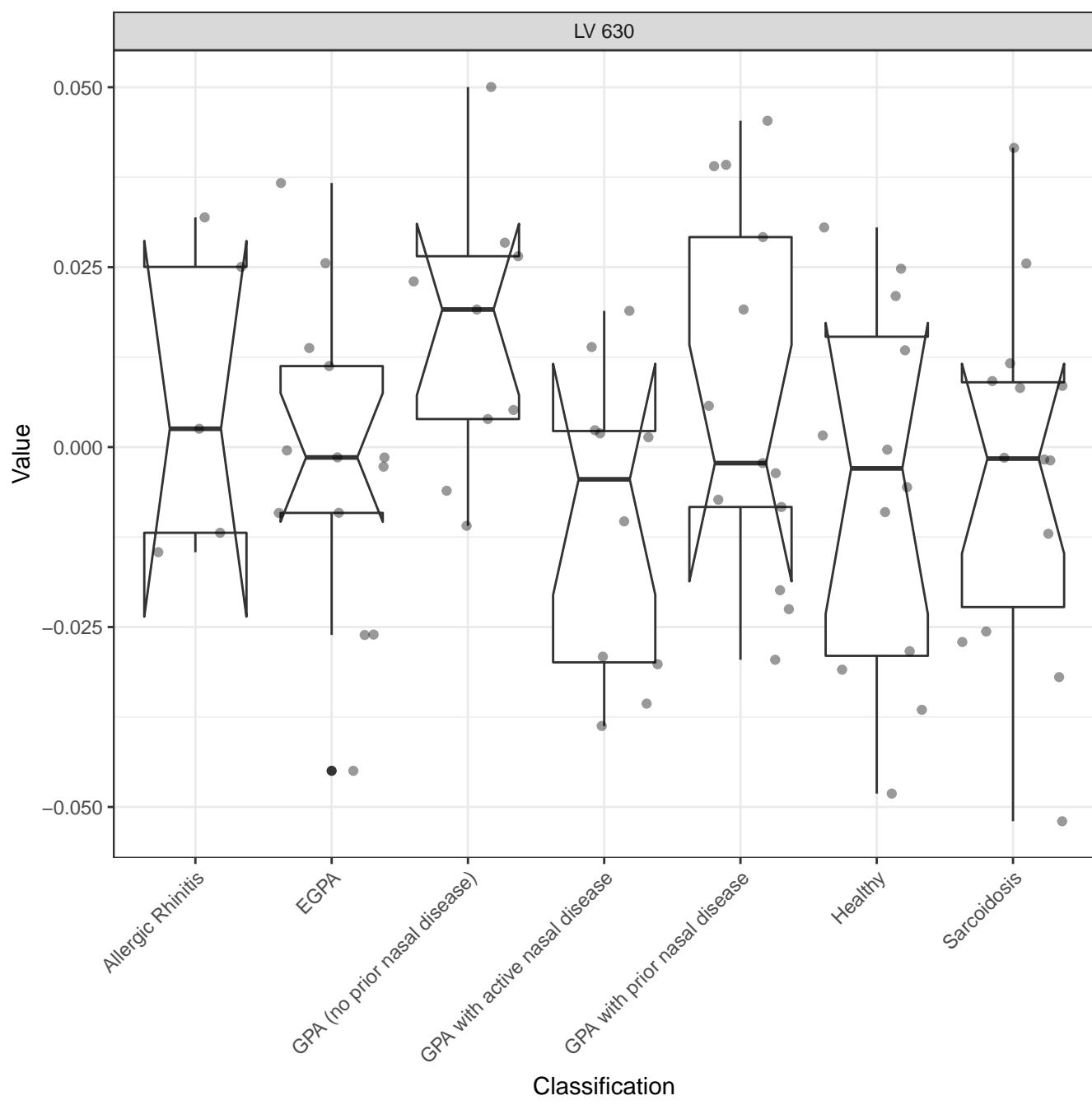
Classification

LV 628

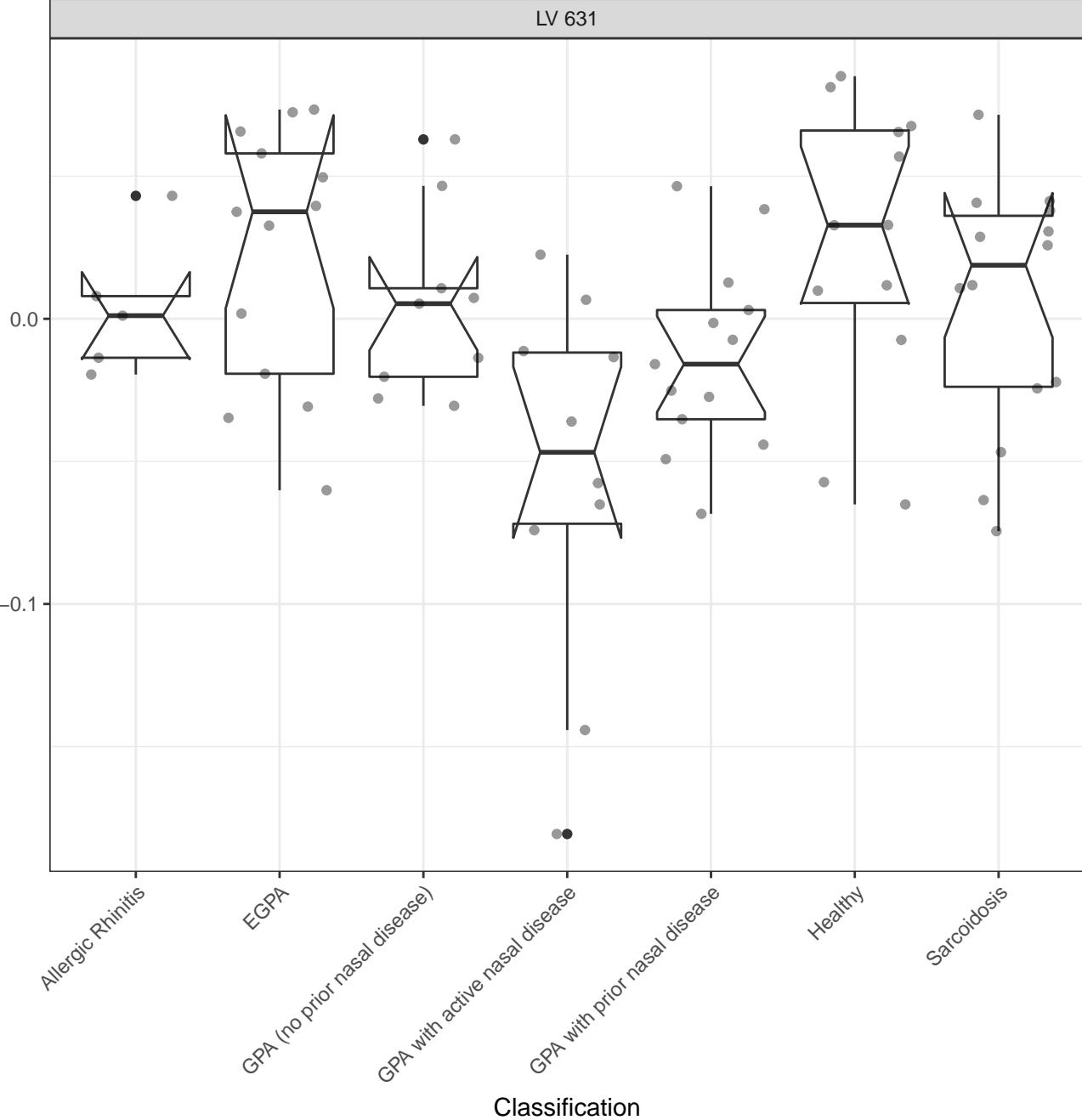


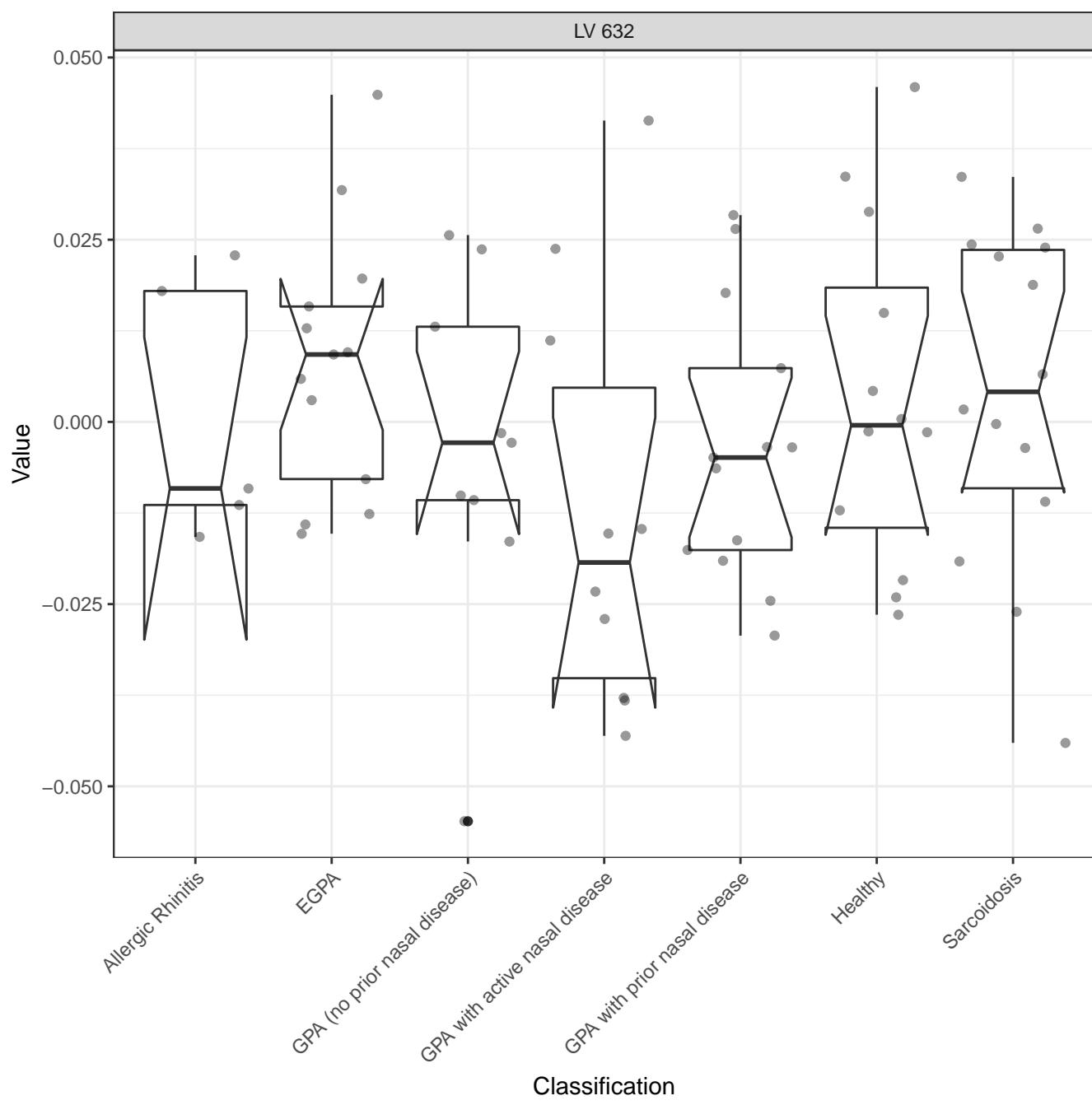
Value

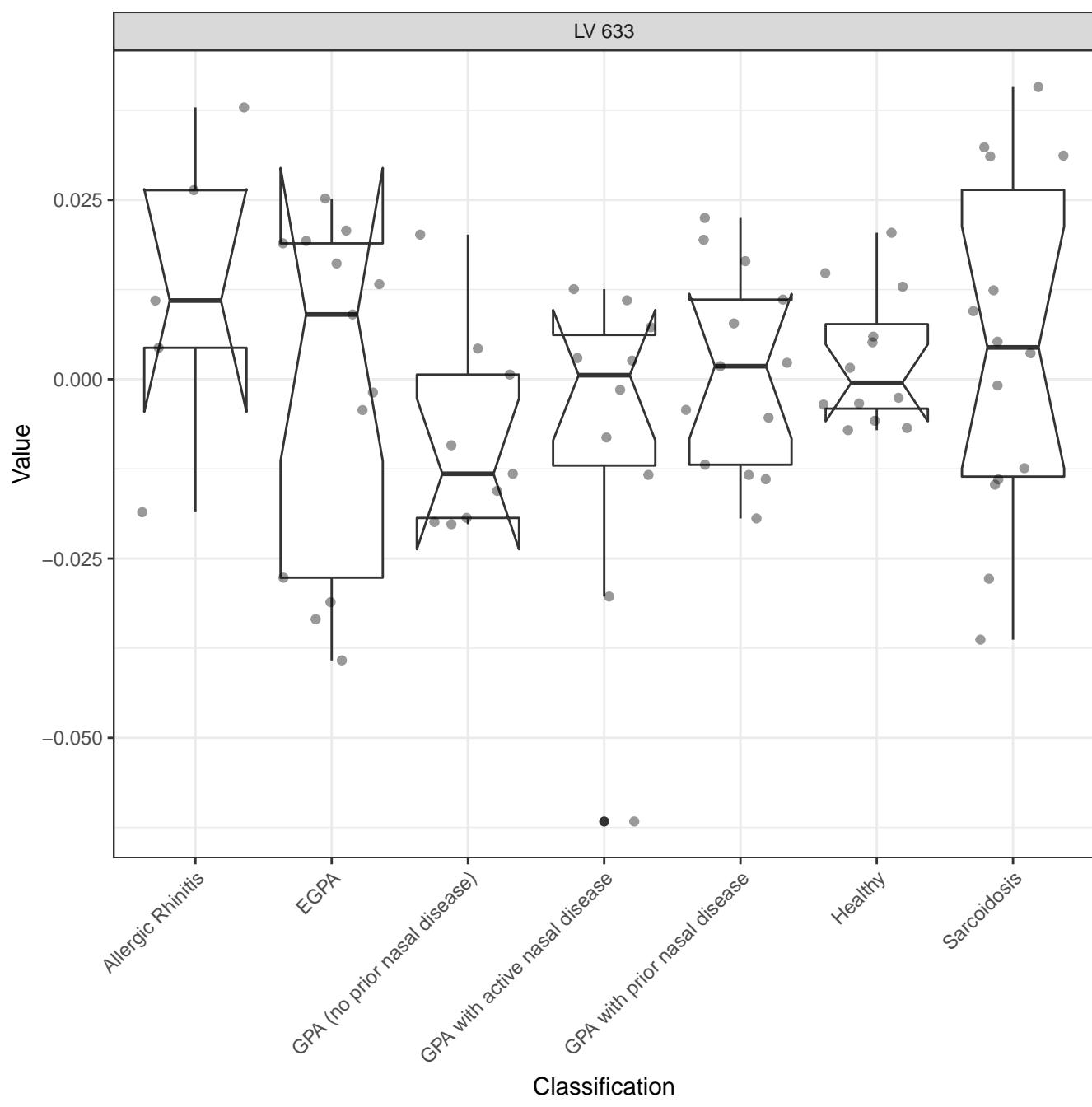




Value







Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

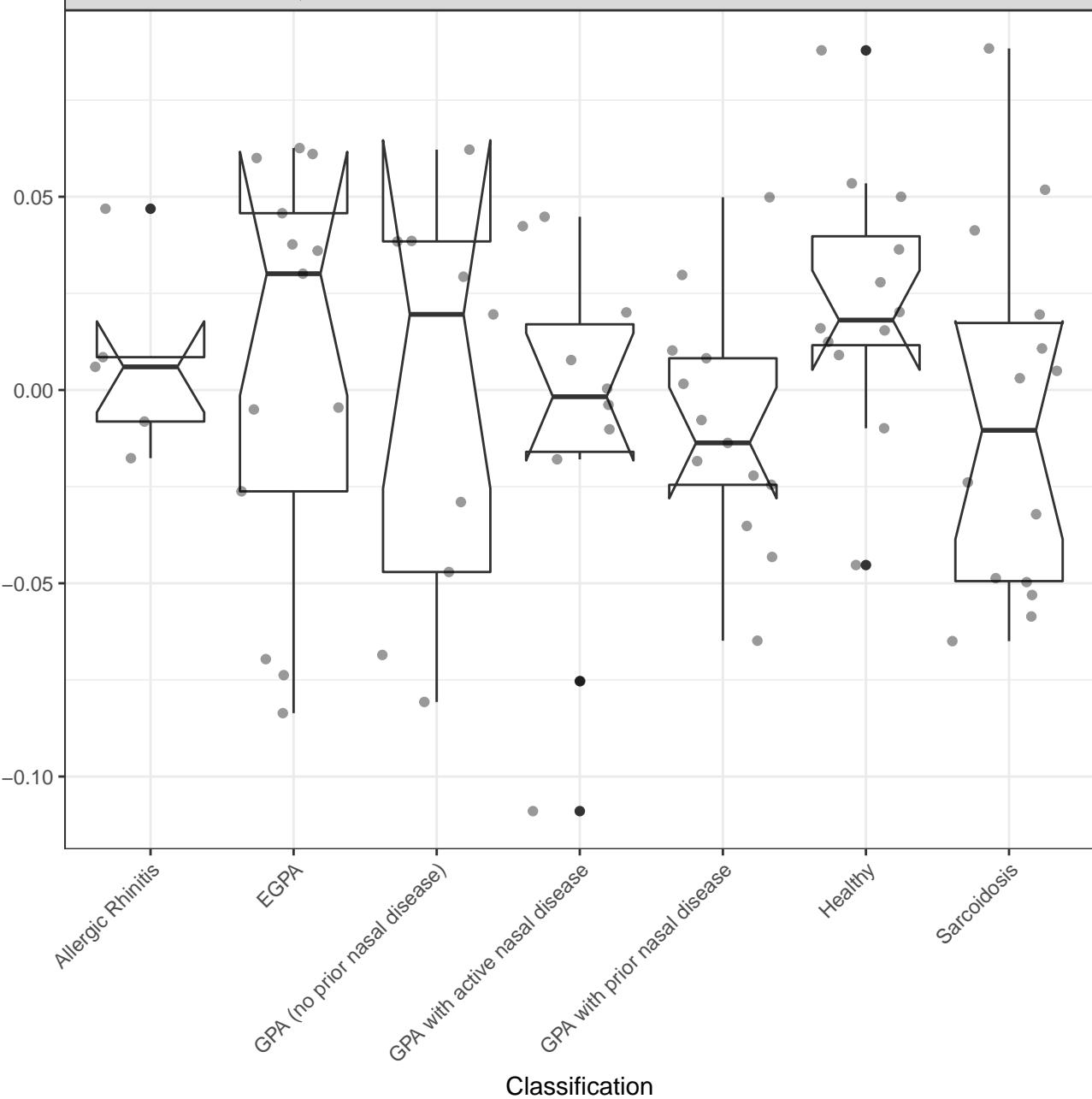
Healthy

Sarcoidosis

Classification

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

Value



Value

0.08

0.04

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 640

Value

0.10

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

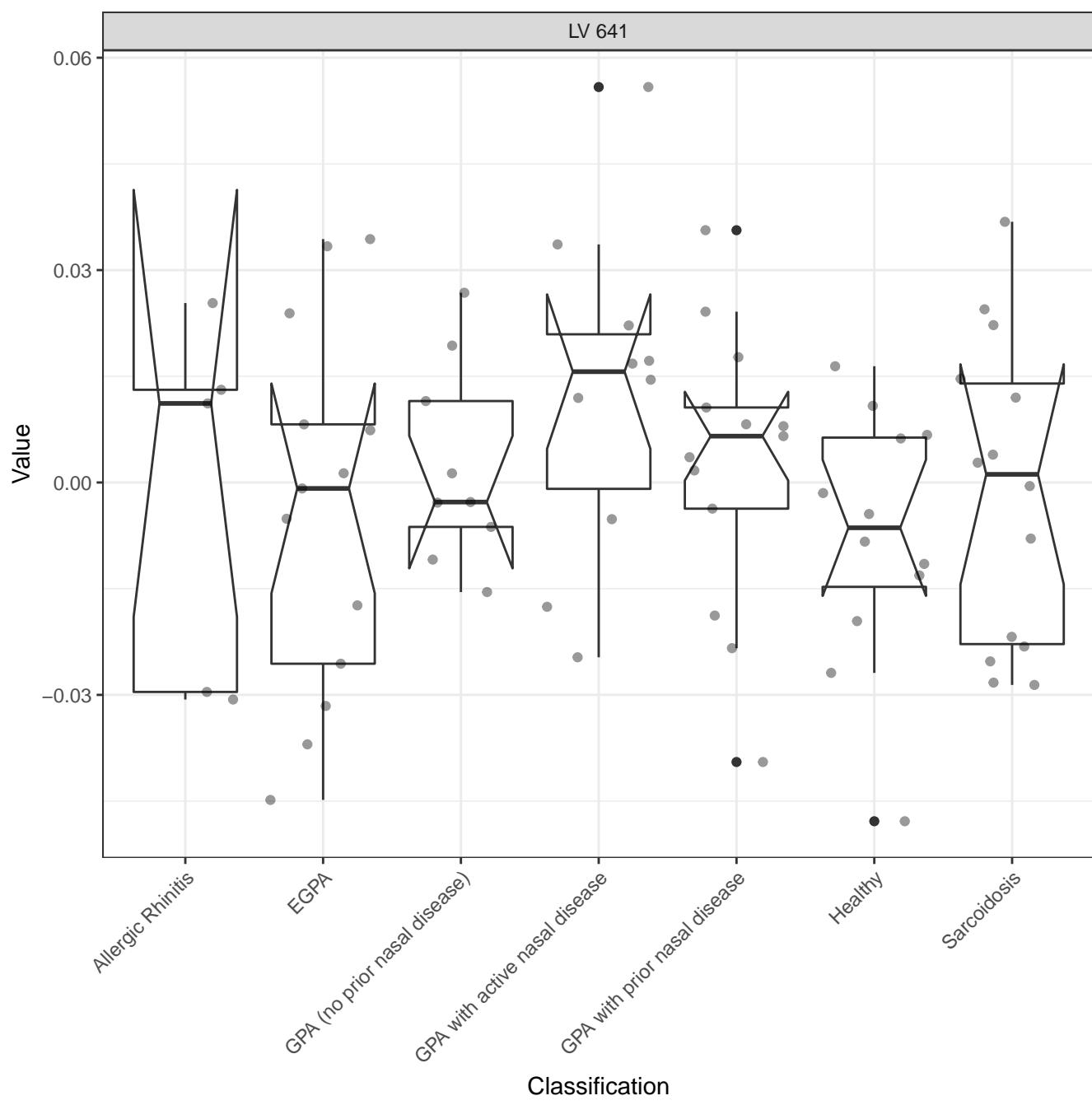
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.050

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

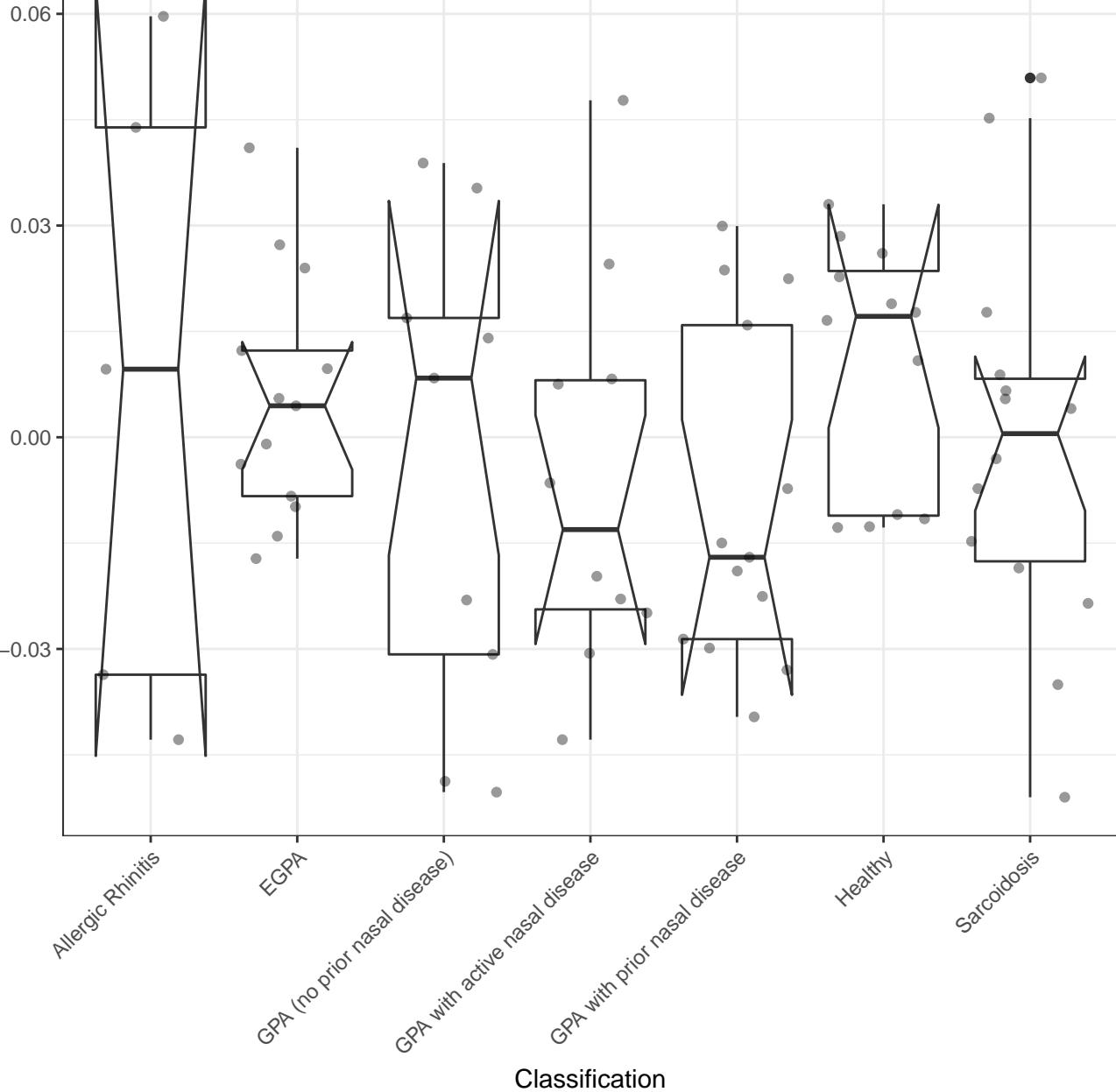
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

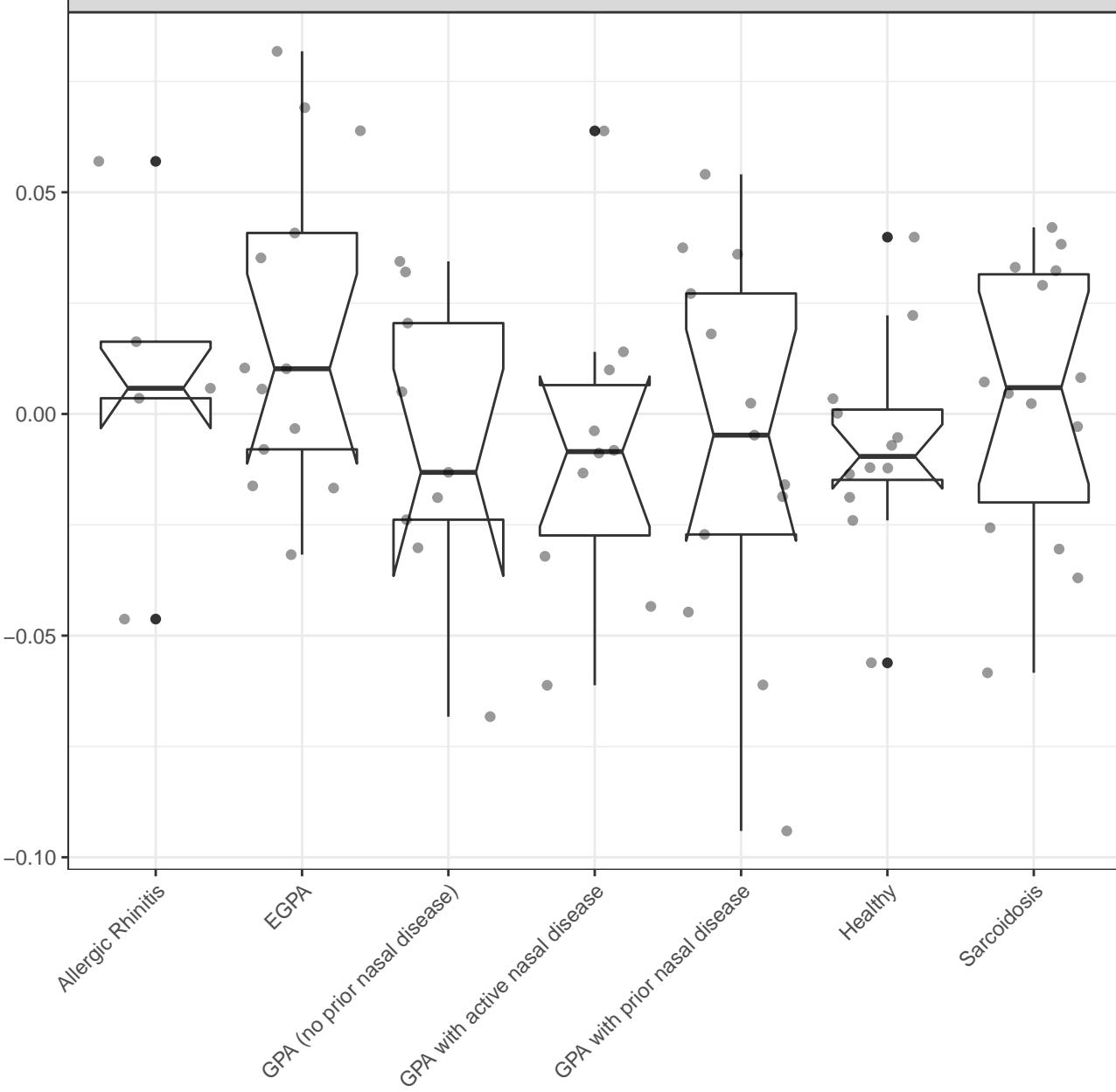
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

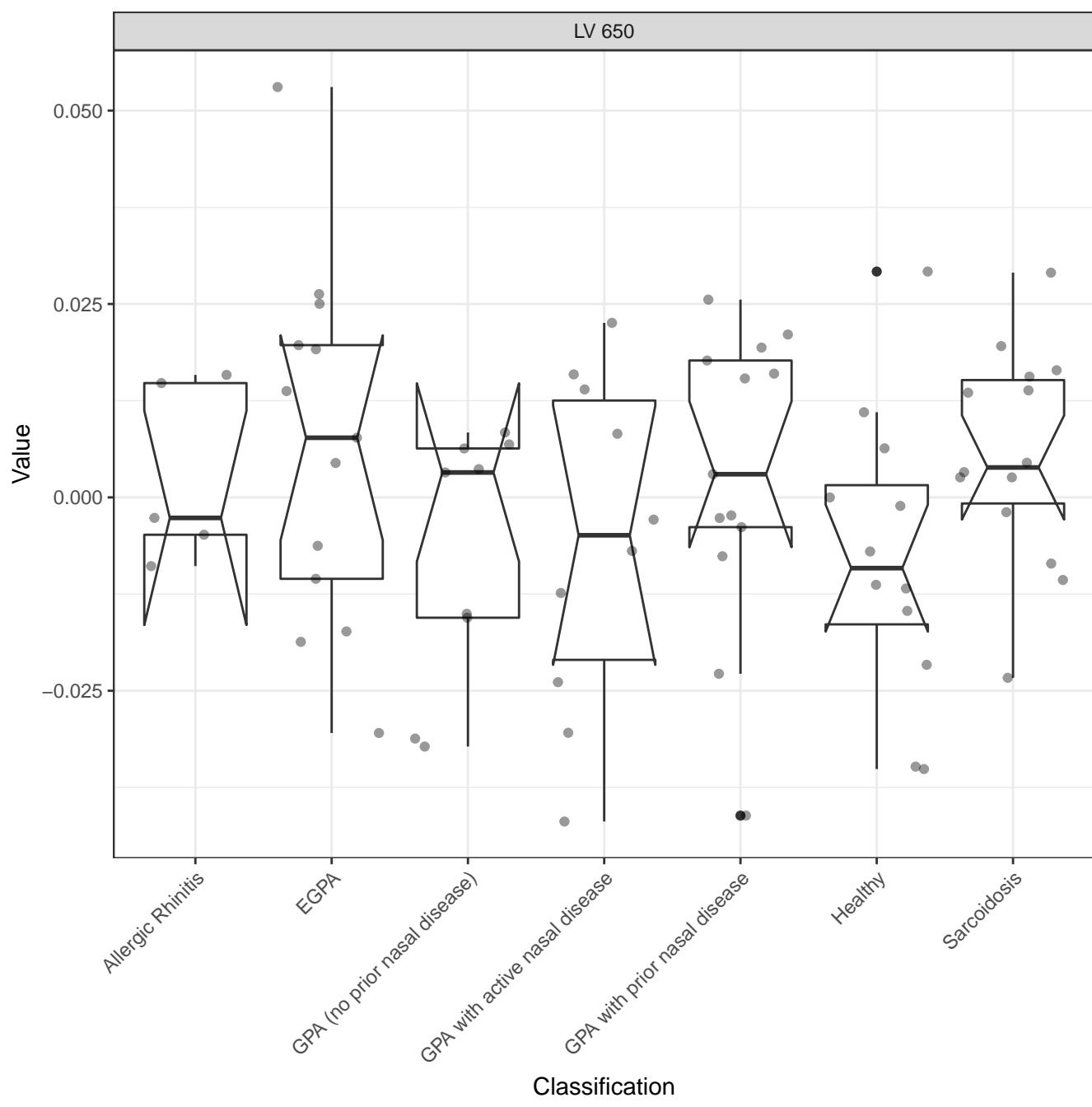
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

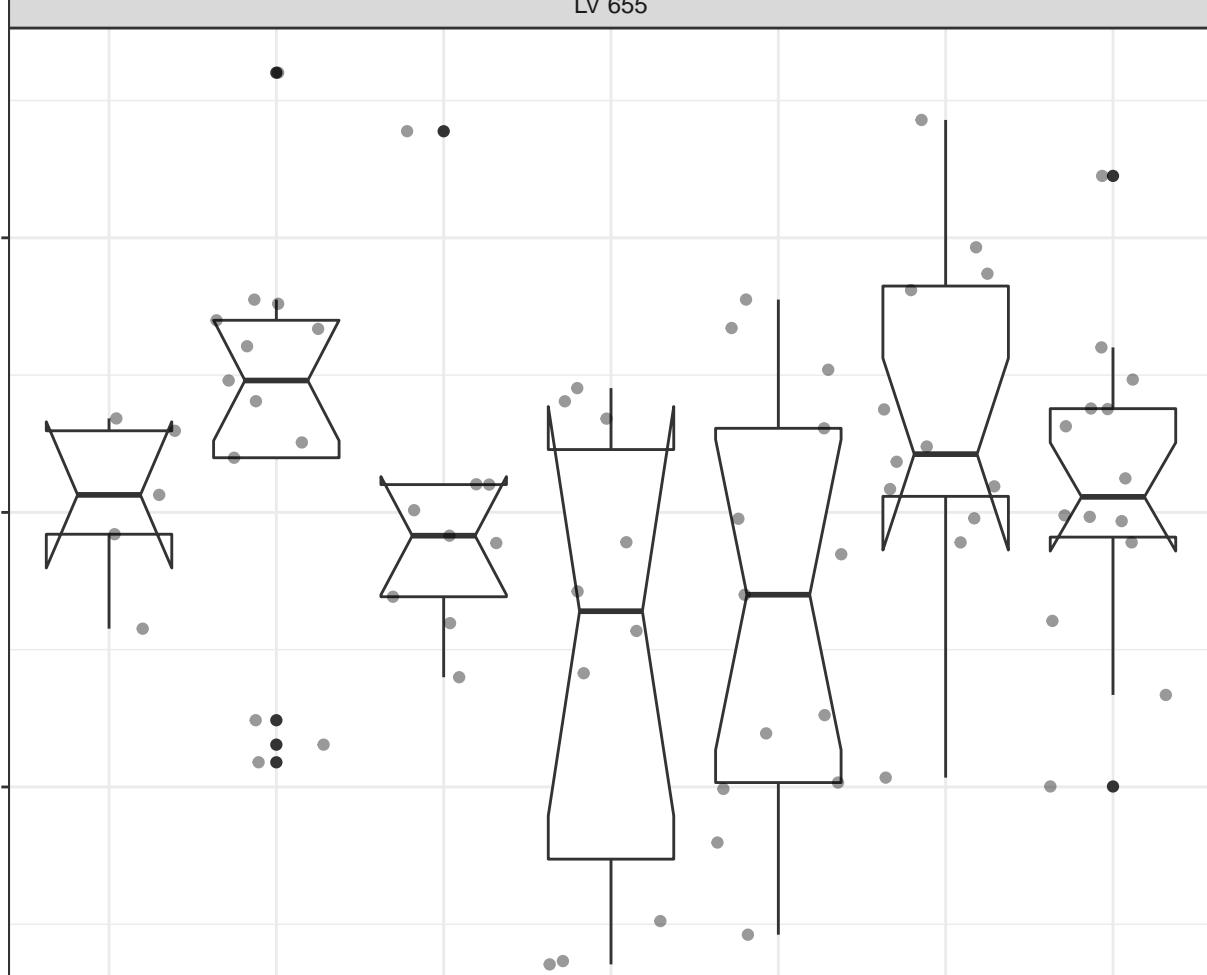
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.4

0.2

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

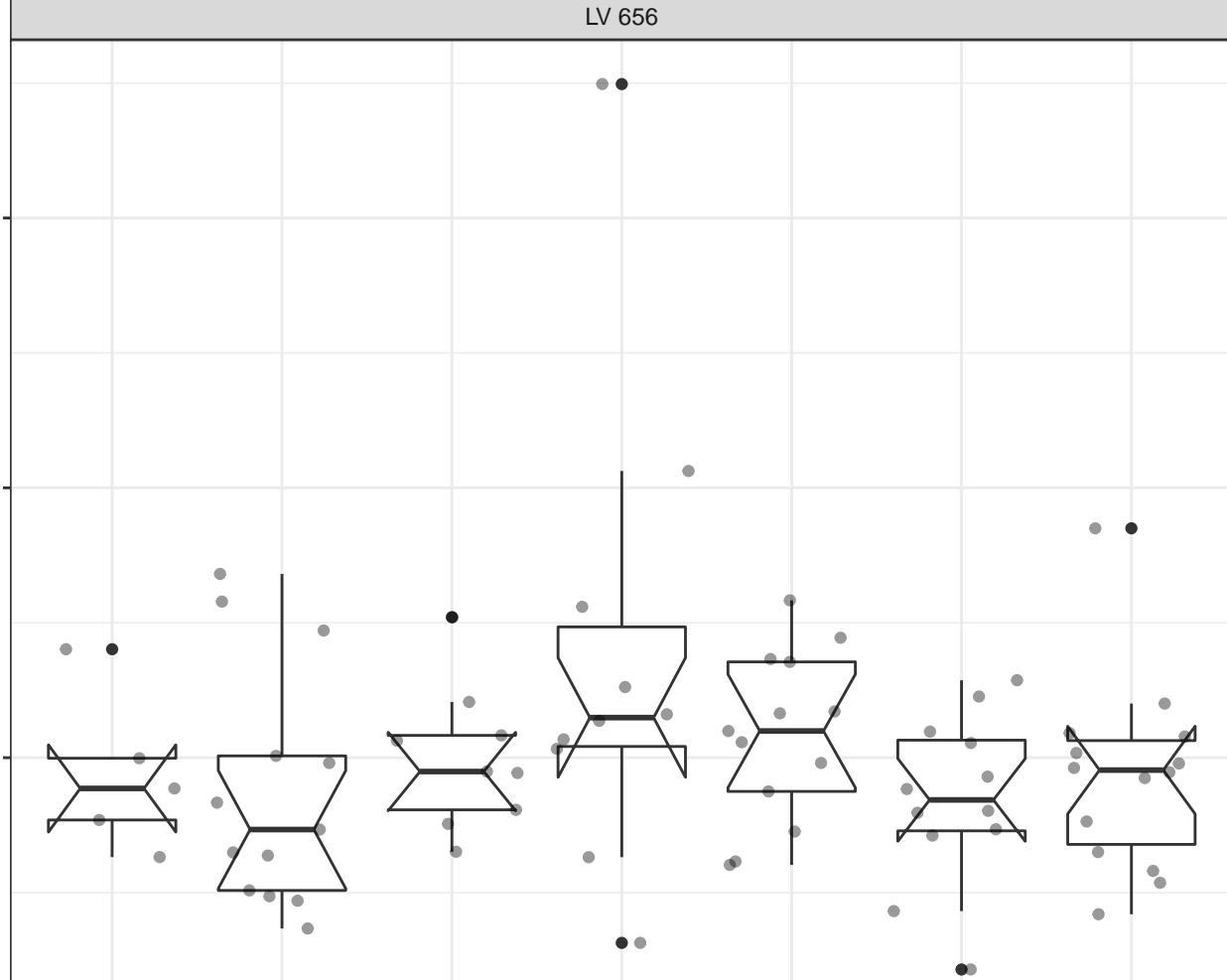
GPA with active nasal disease

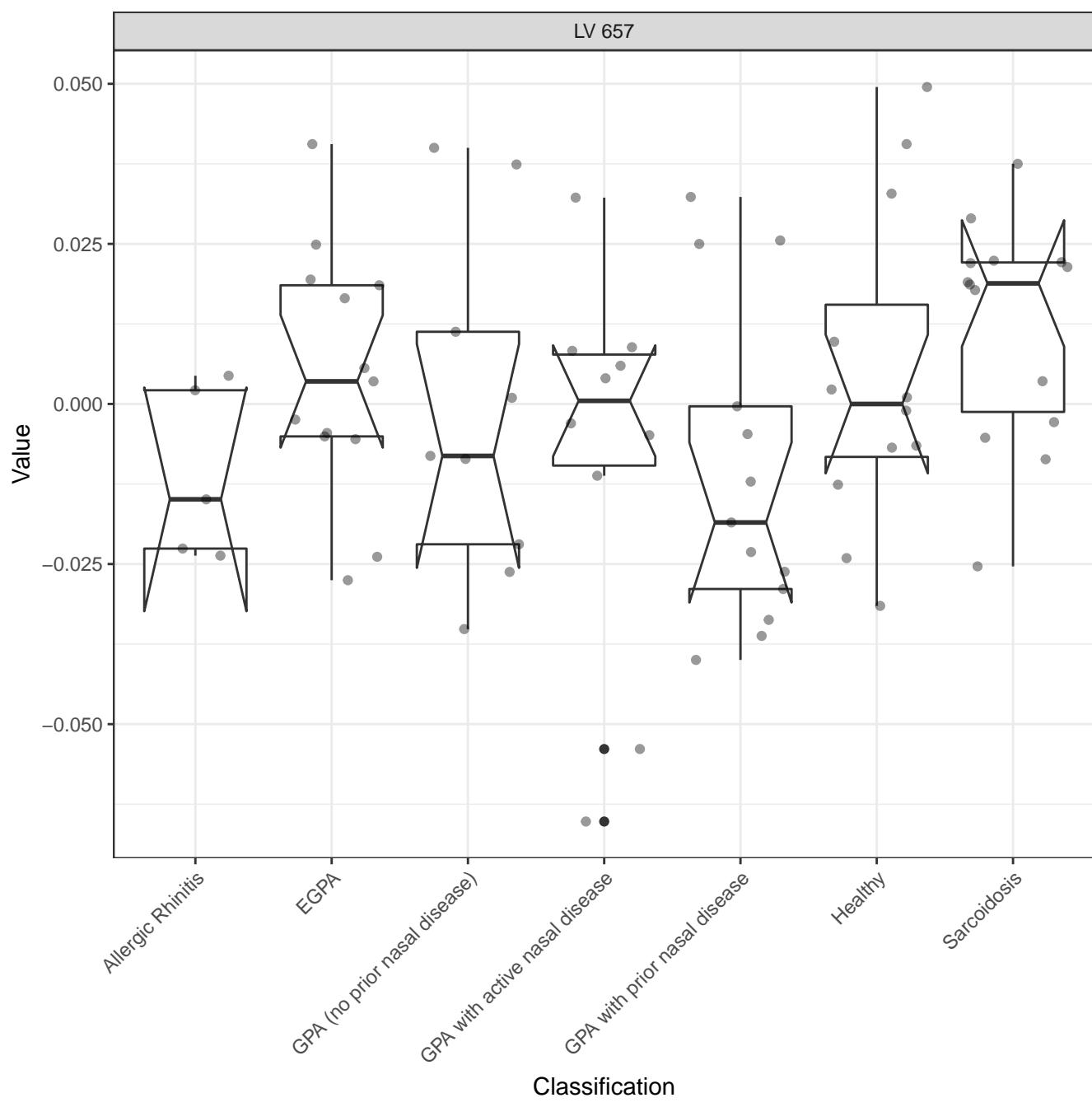
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

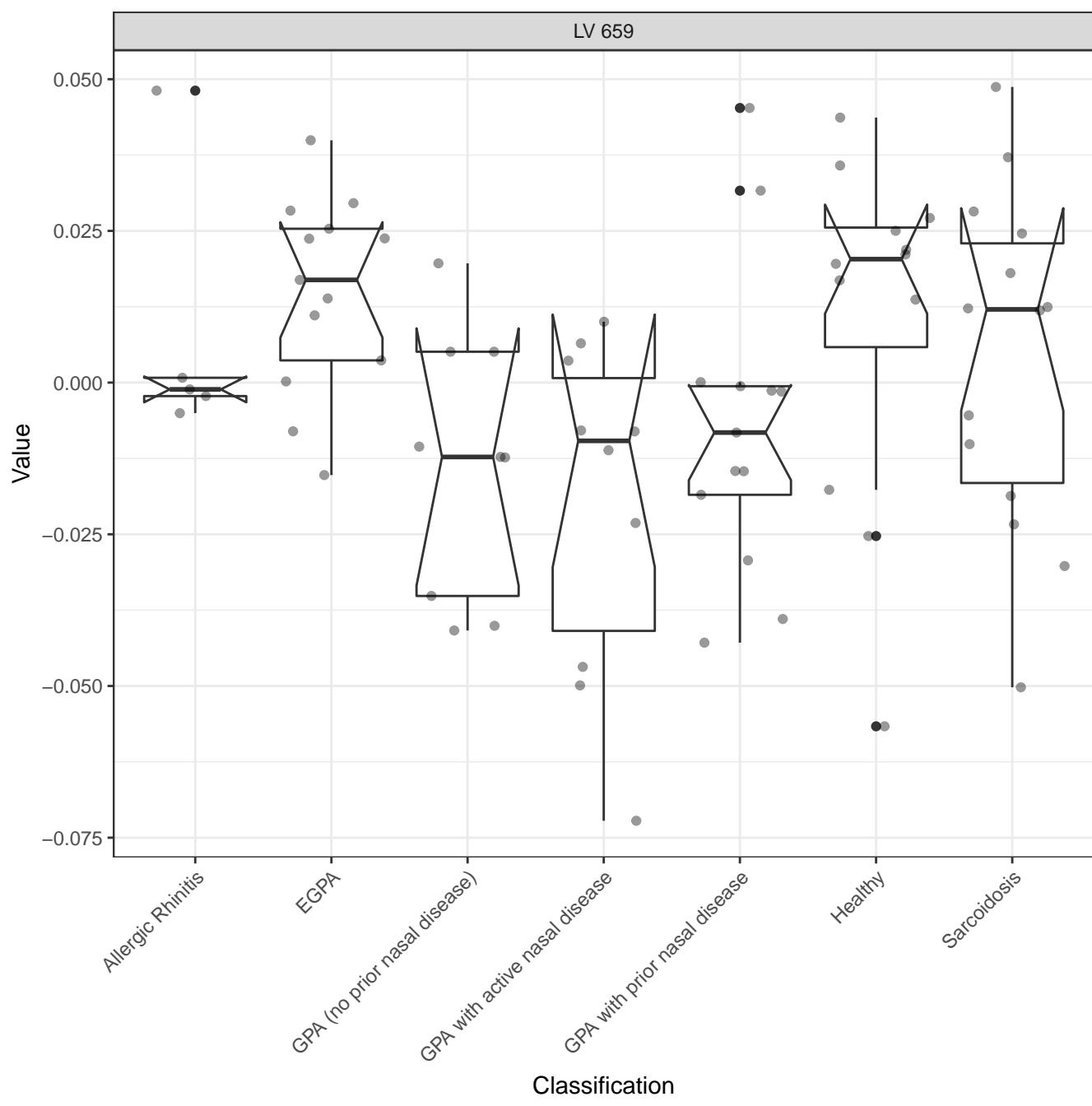
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

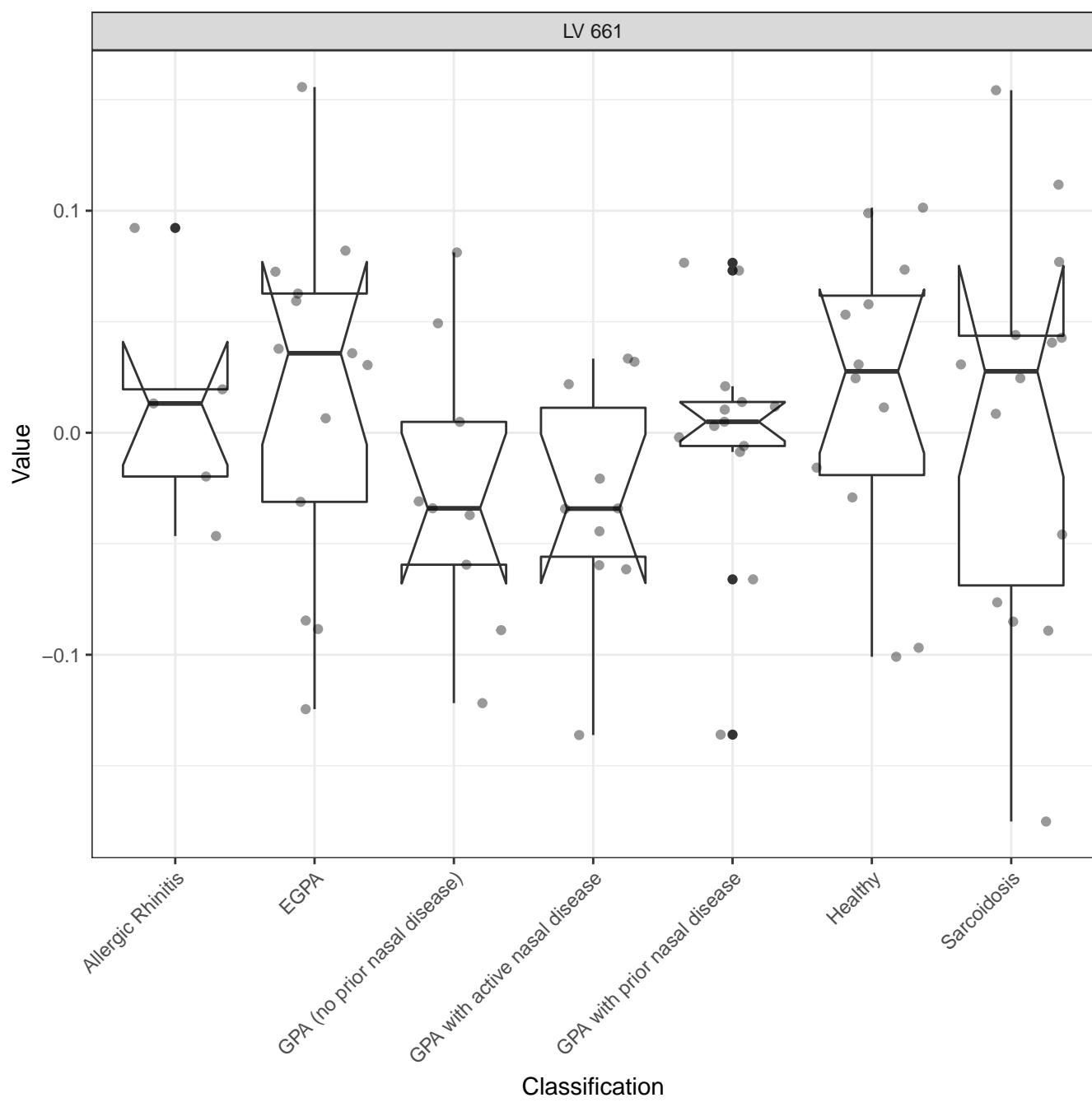
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



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

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

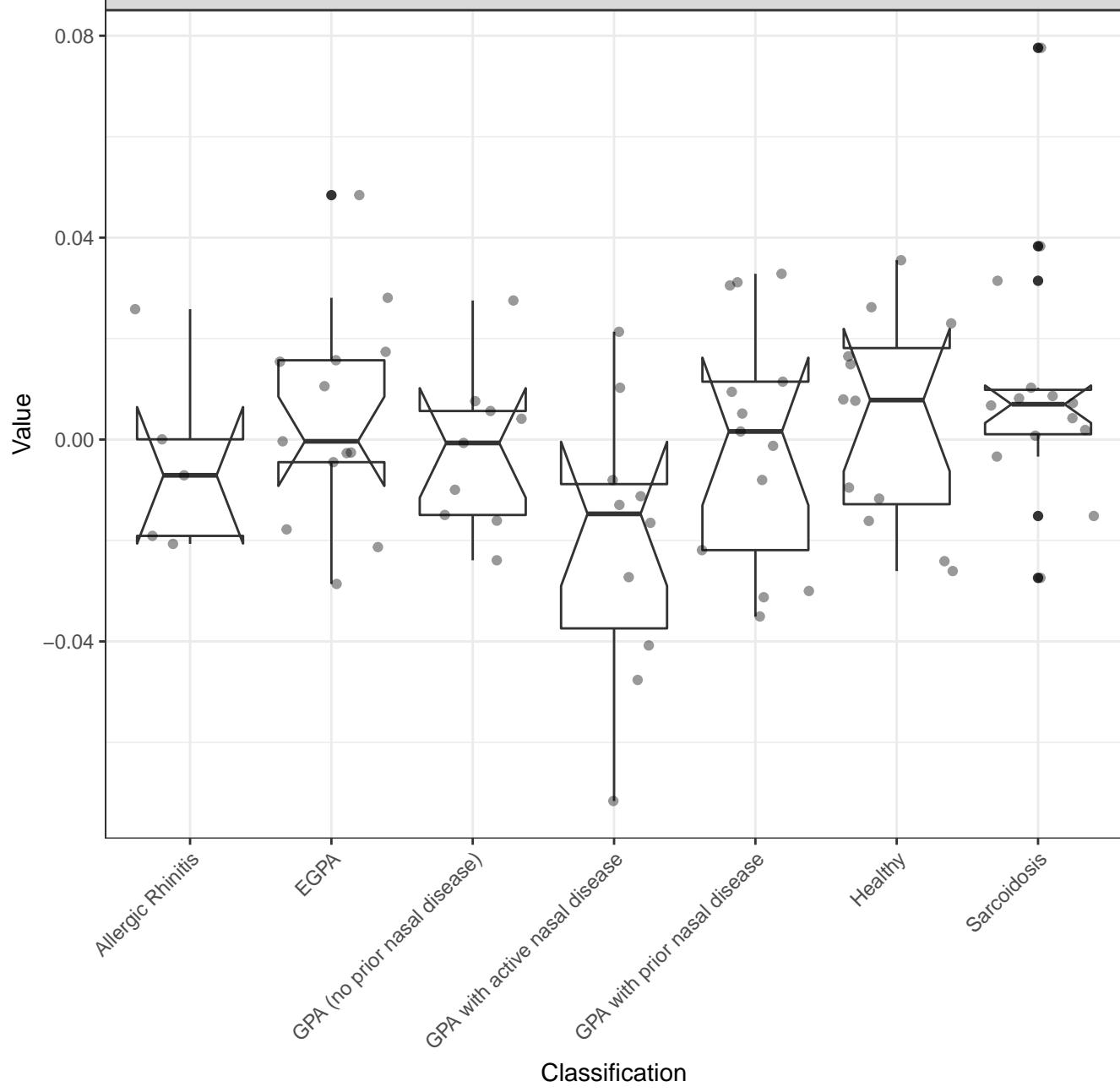
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

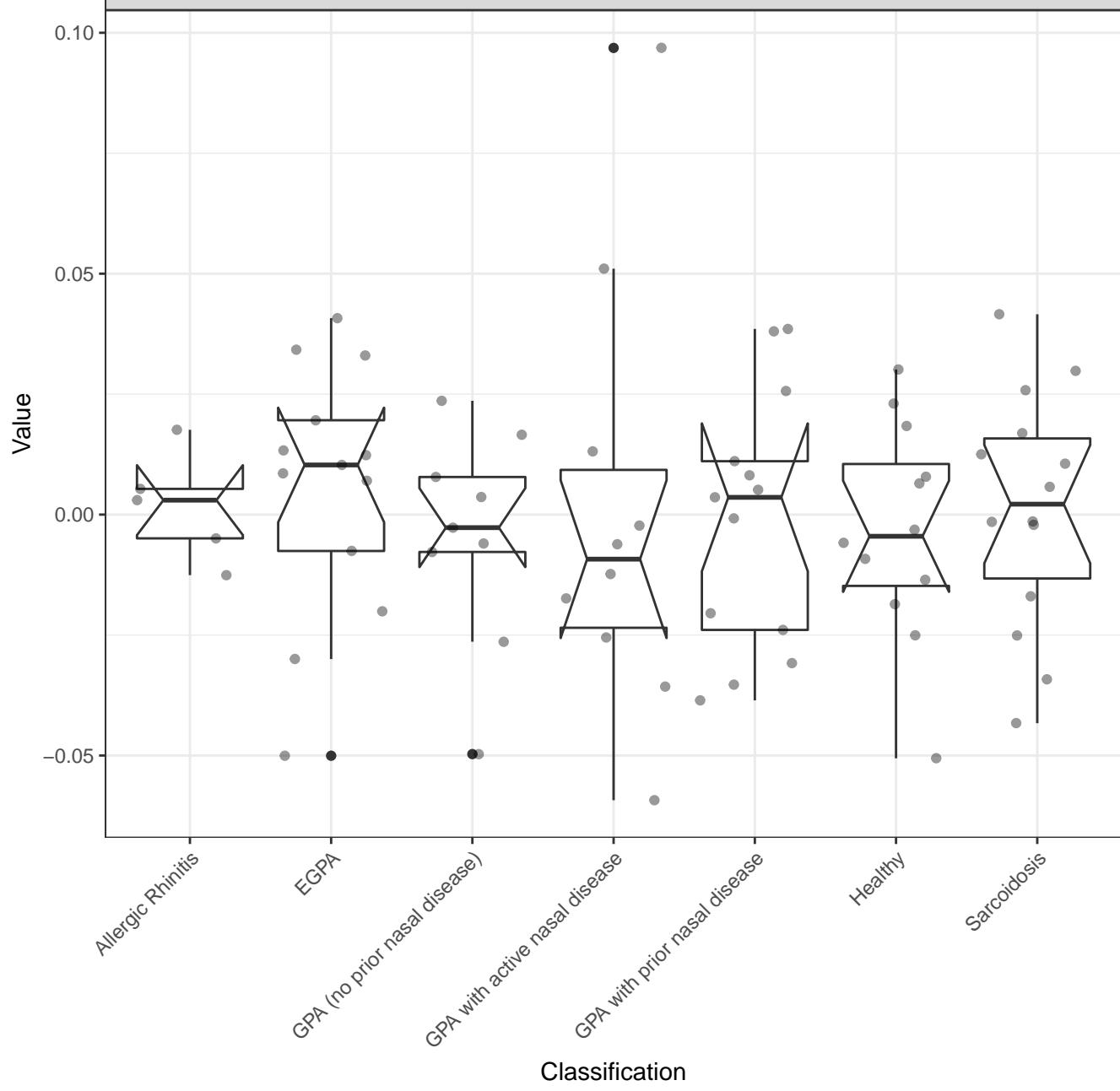
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



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

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

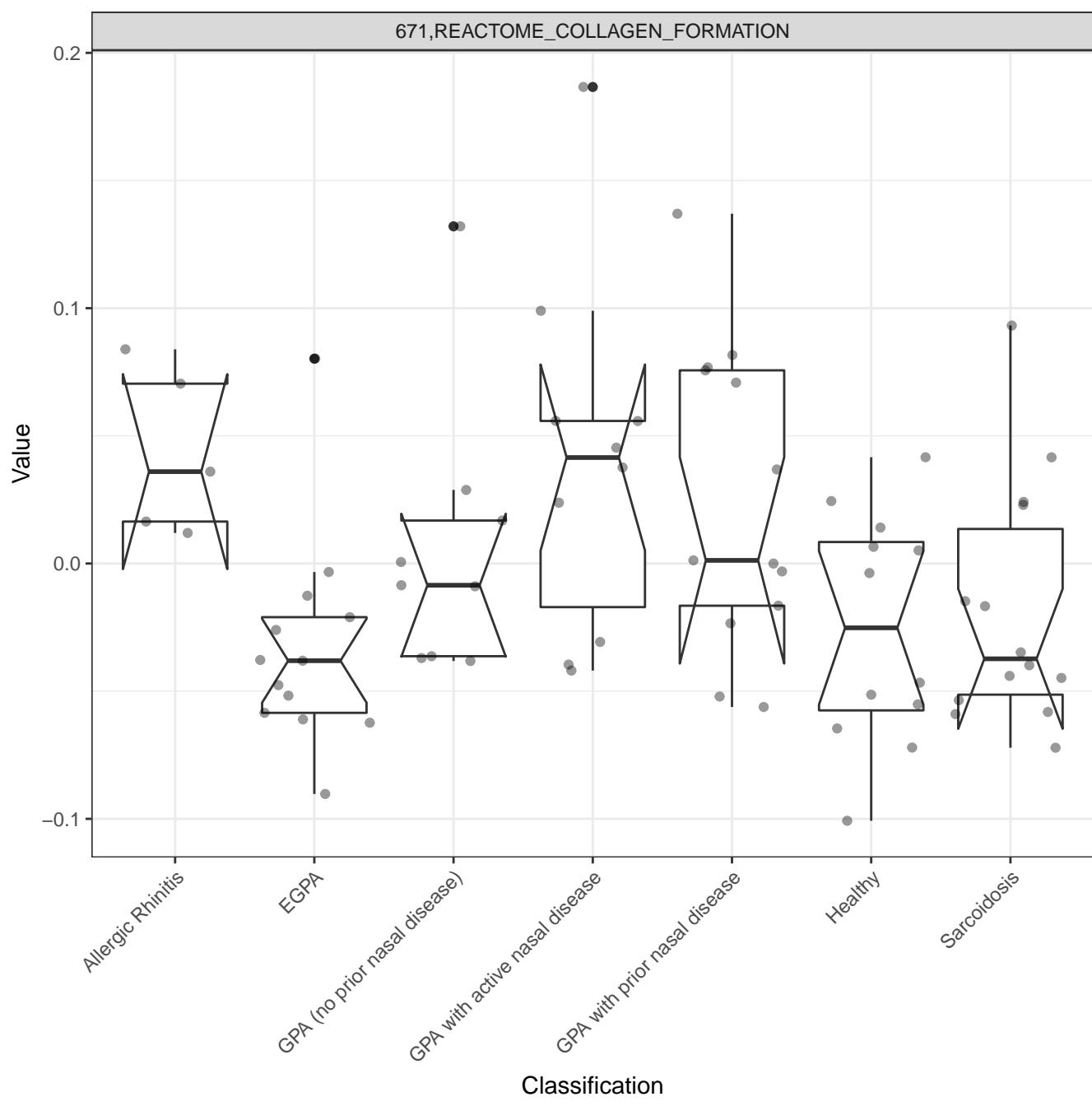
GPA with prior nasal disease

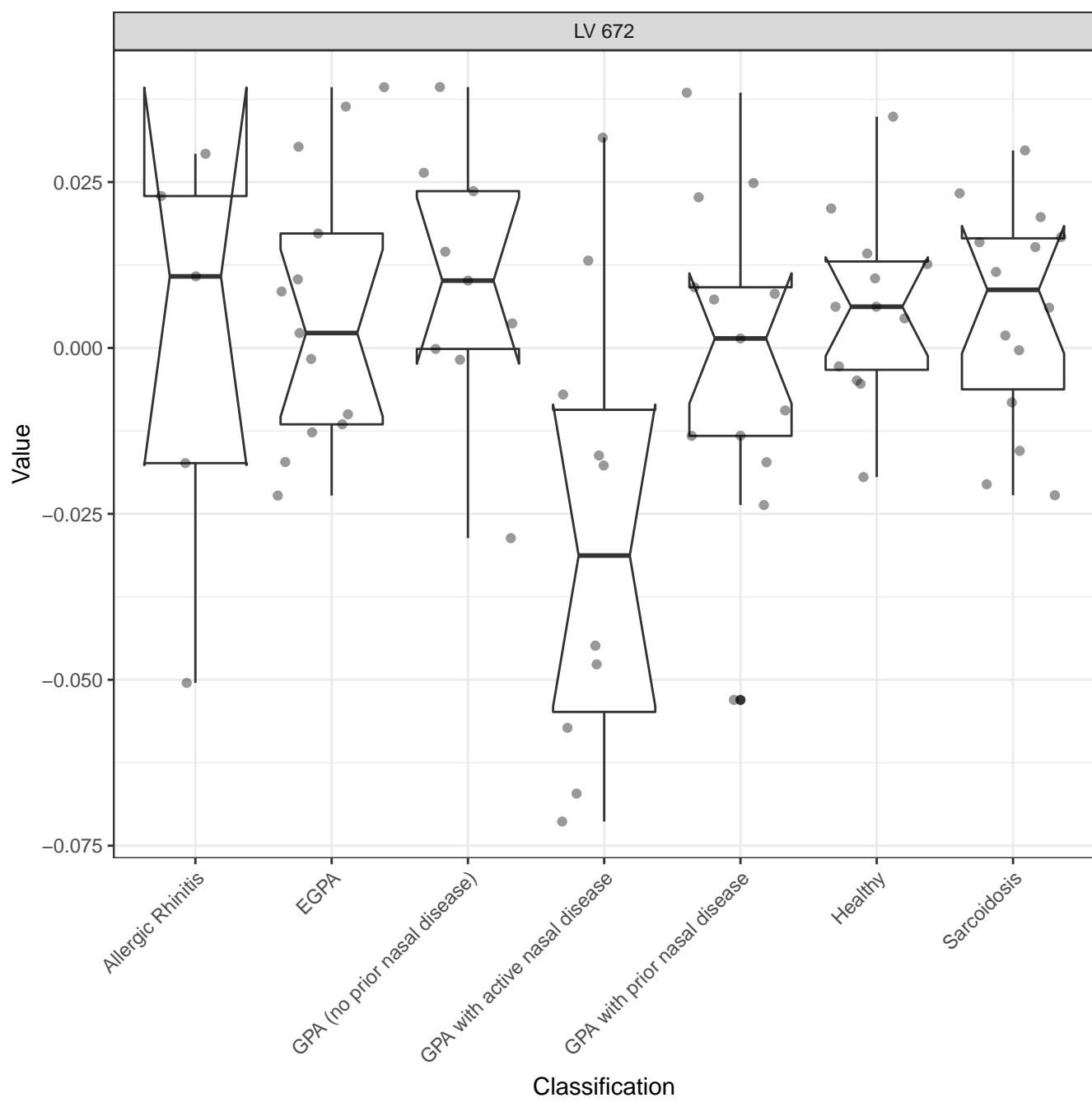
Healthy

Sarcoidosis

Classification

## 671,REACTOME\_COLLAGEN\_FORMATION





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

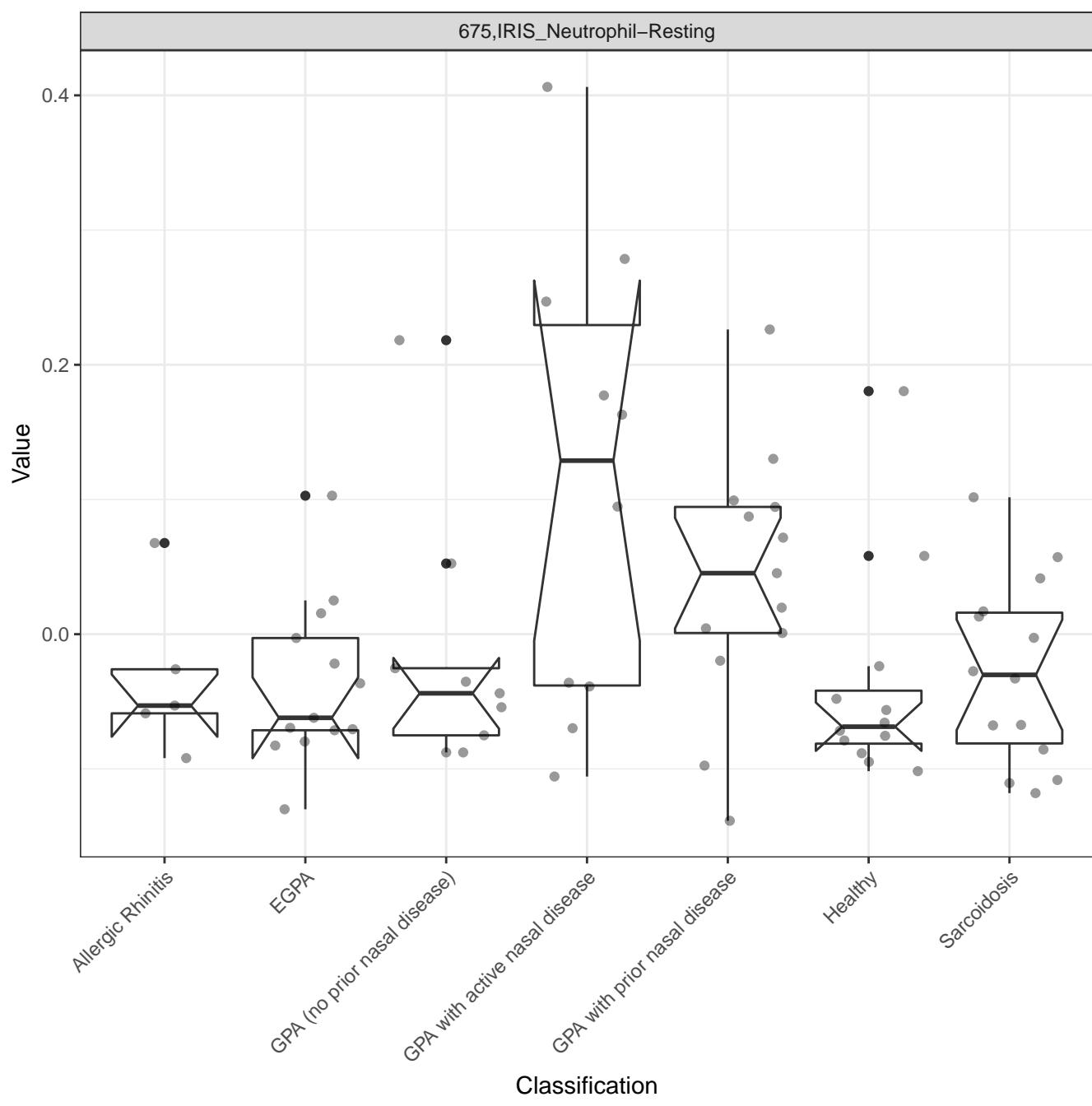
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 675,IRIS\_Neutrophil–Resting



Value

0.03

0.01

-0.01

-0.03

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

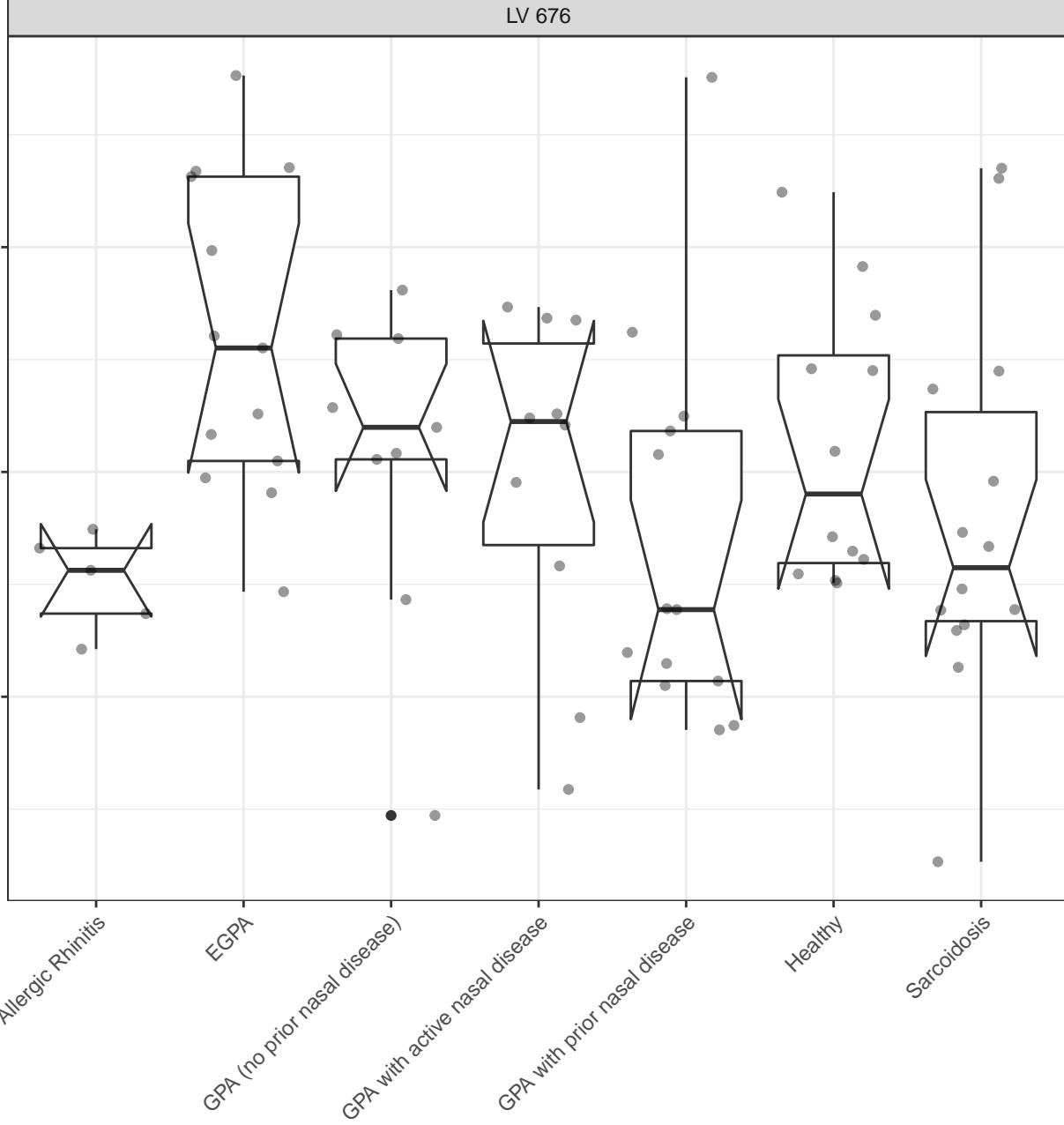
GPA with active nasal disease

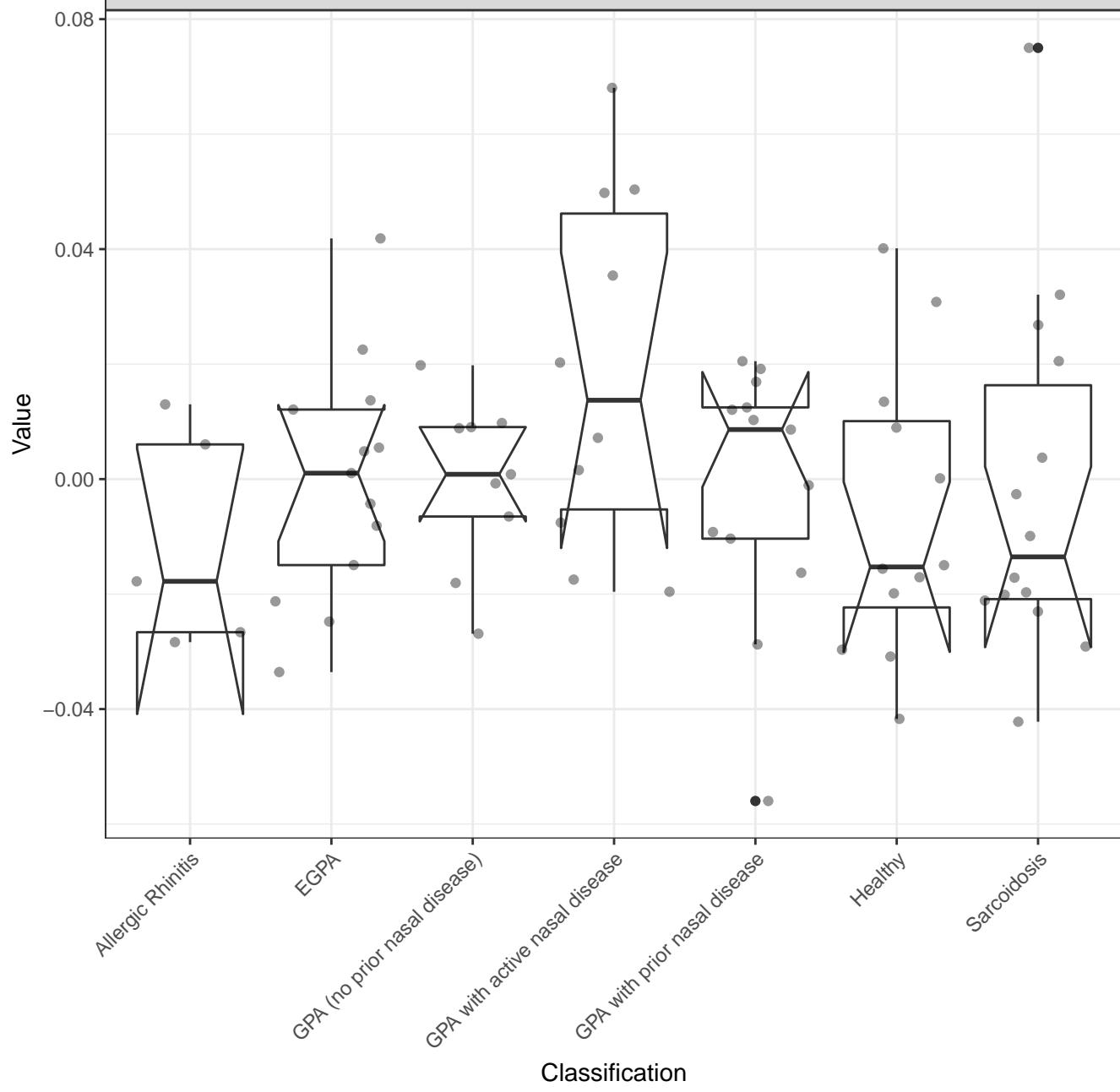
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





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

Value

0.2

0.0

-0.2

-0.4

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

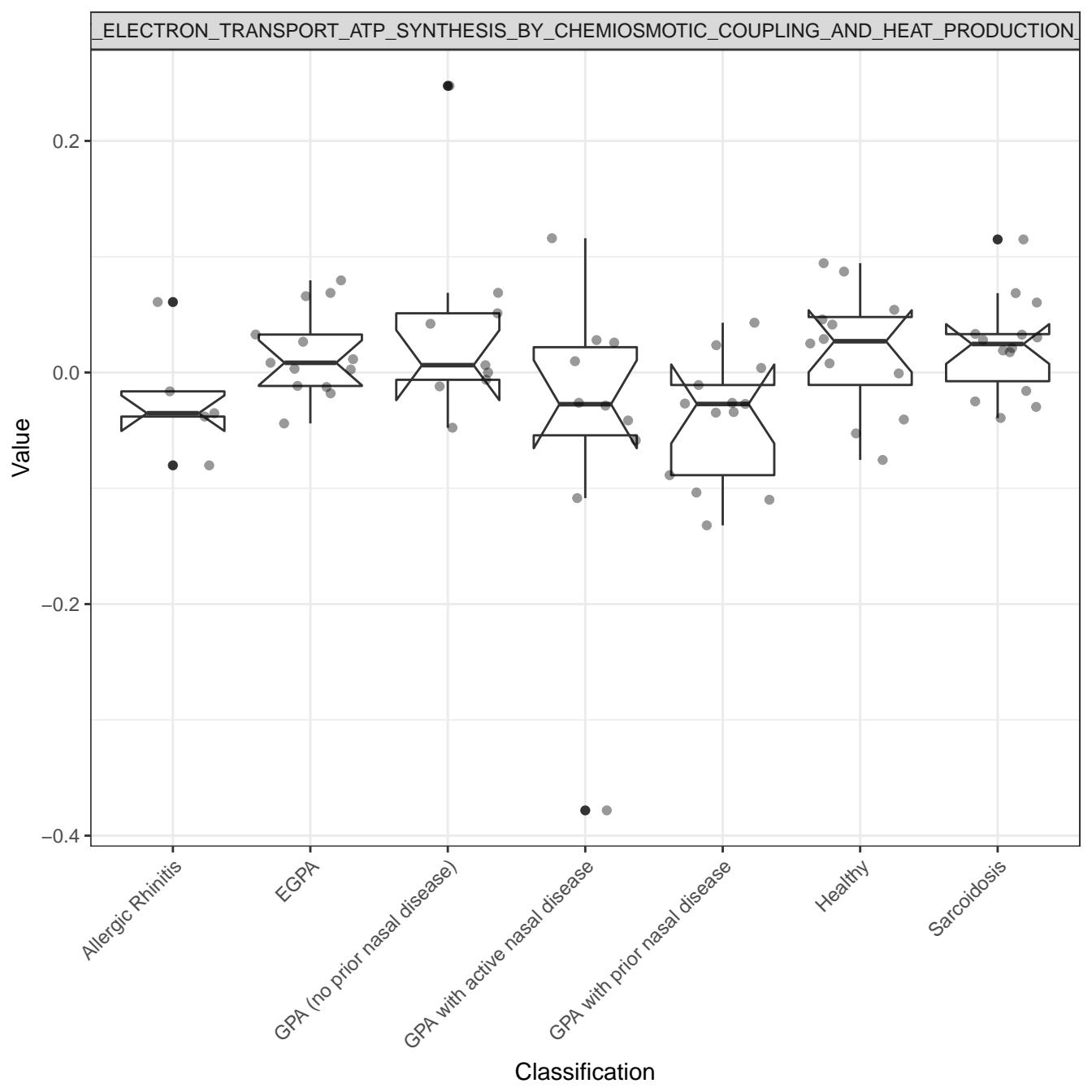
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.02

0.00

-0.02

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

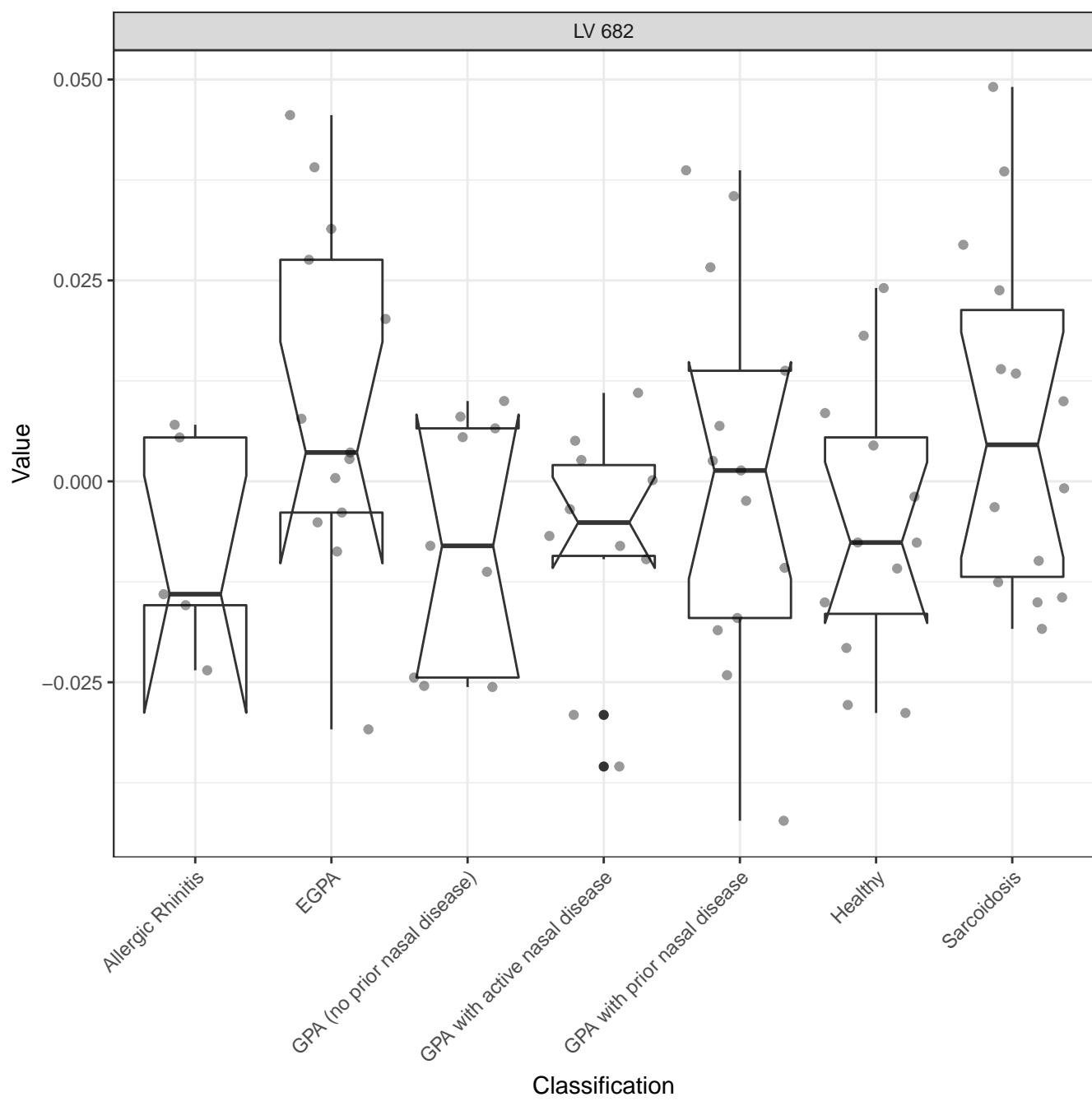
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05  
0.01  
-0.01  
-0.05  
-0.10  
-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

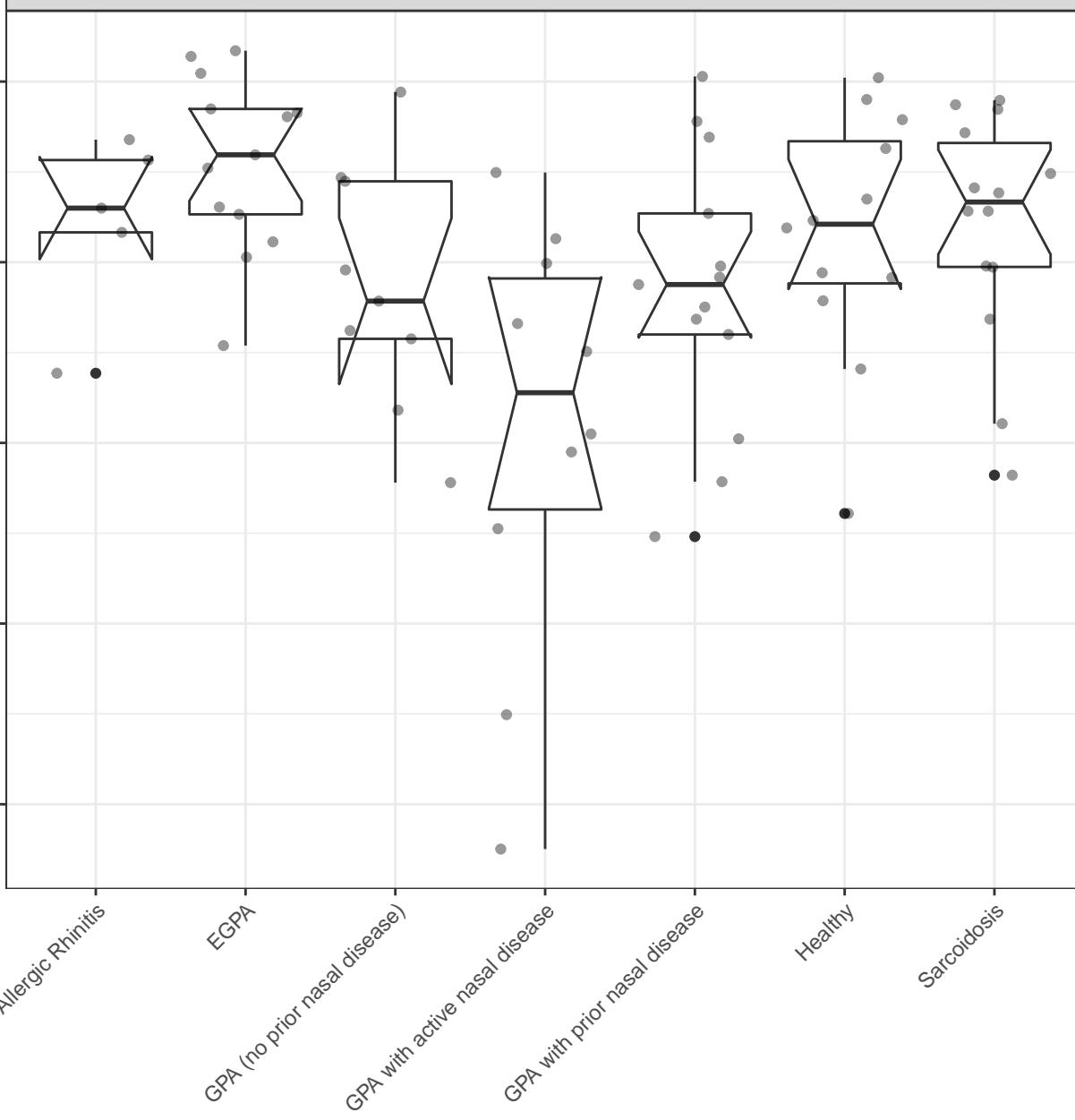
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 684,KEGG\_CELL\_CYCLE

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

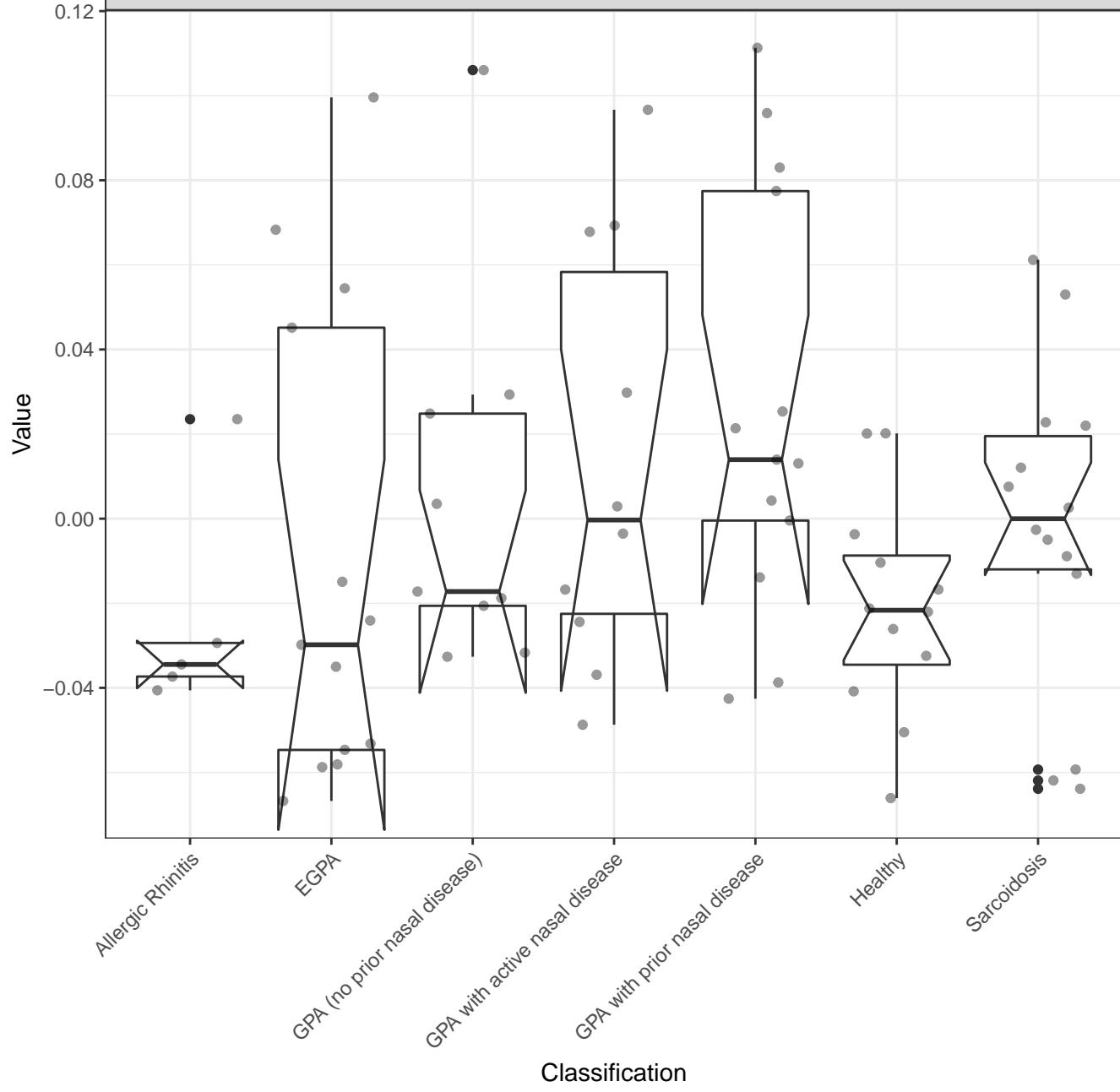
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 689



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

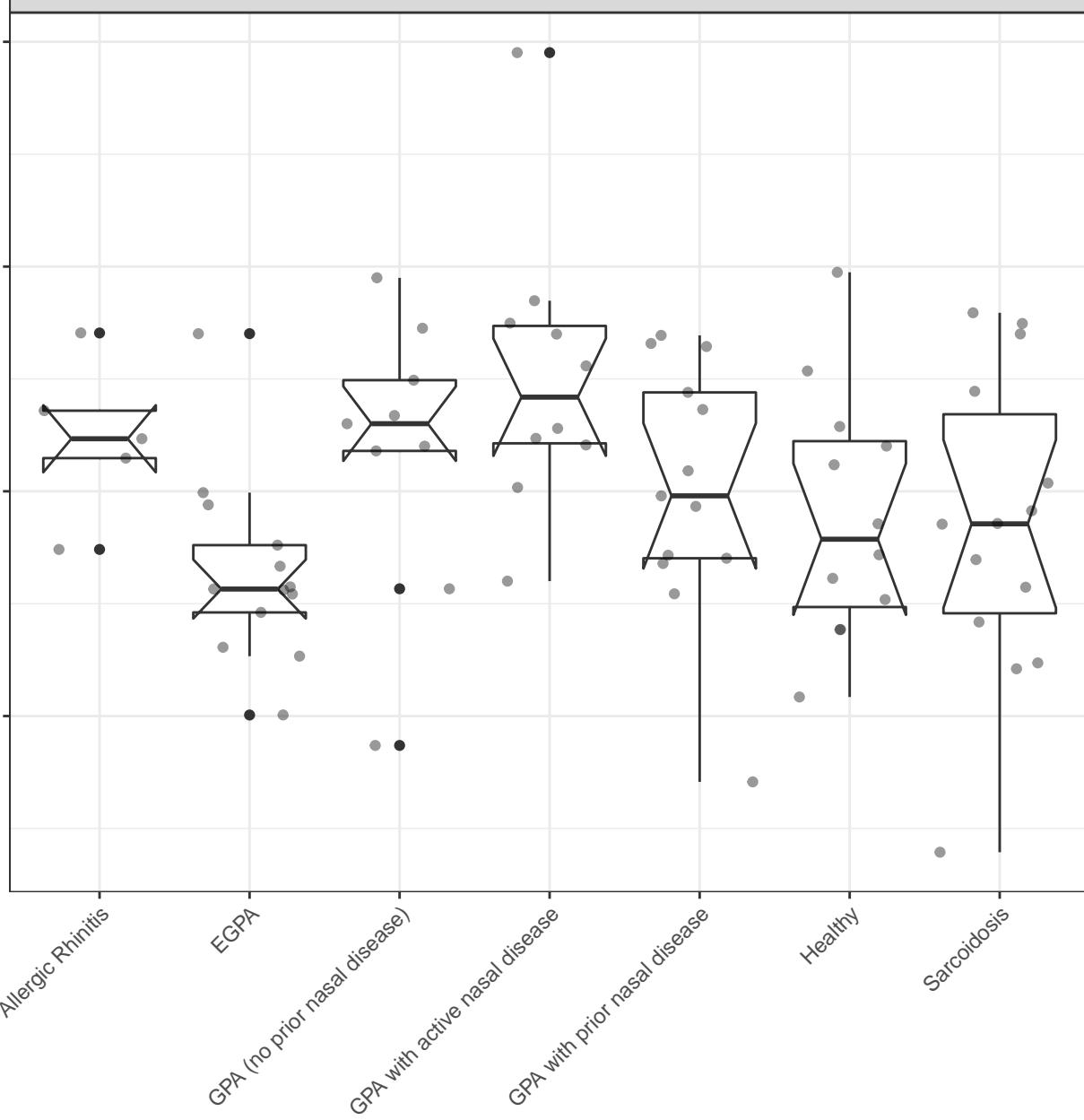
GPA with active nasal disease

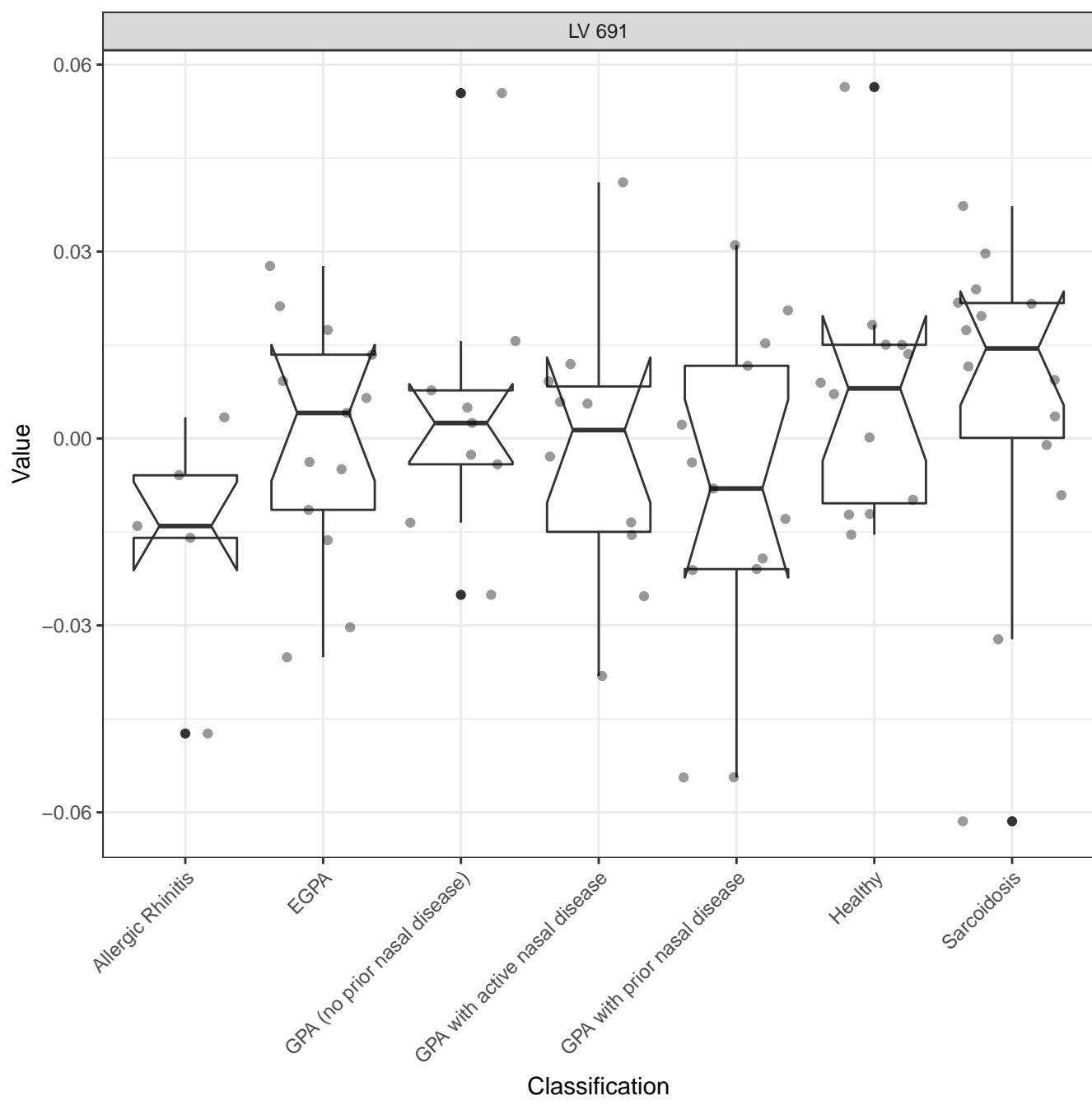
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

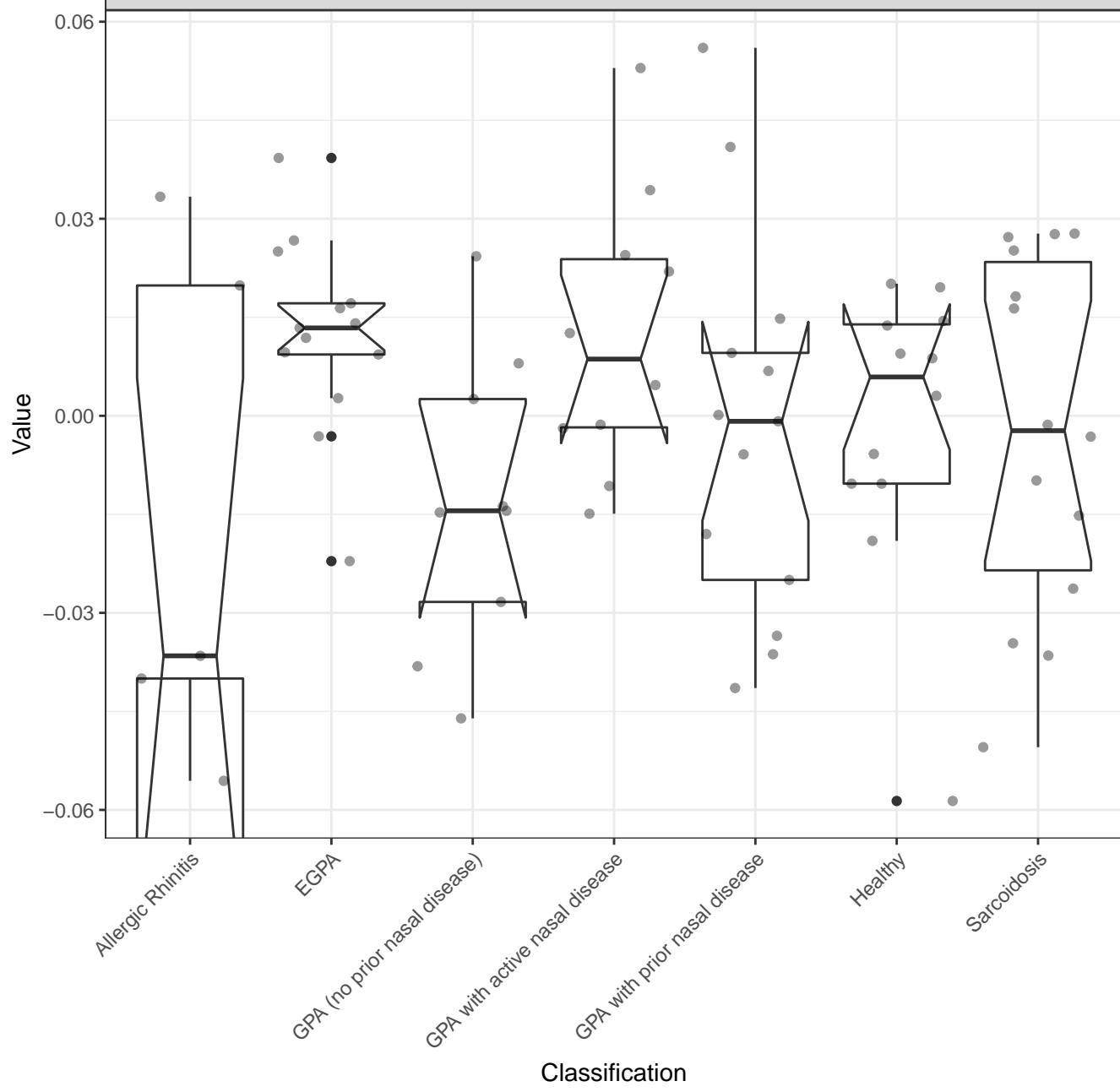
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 697

Value

0.06

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

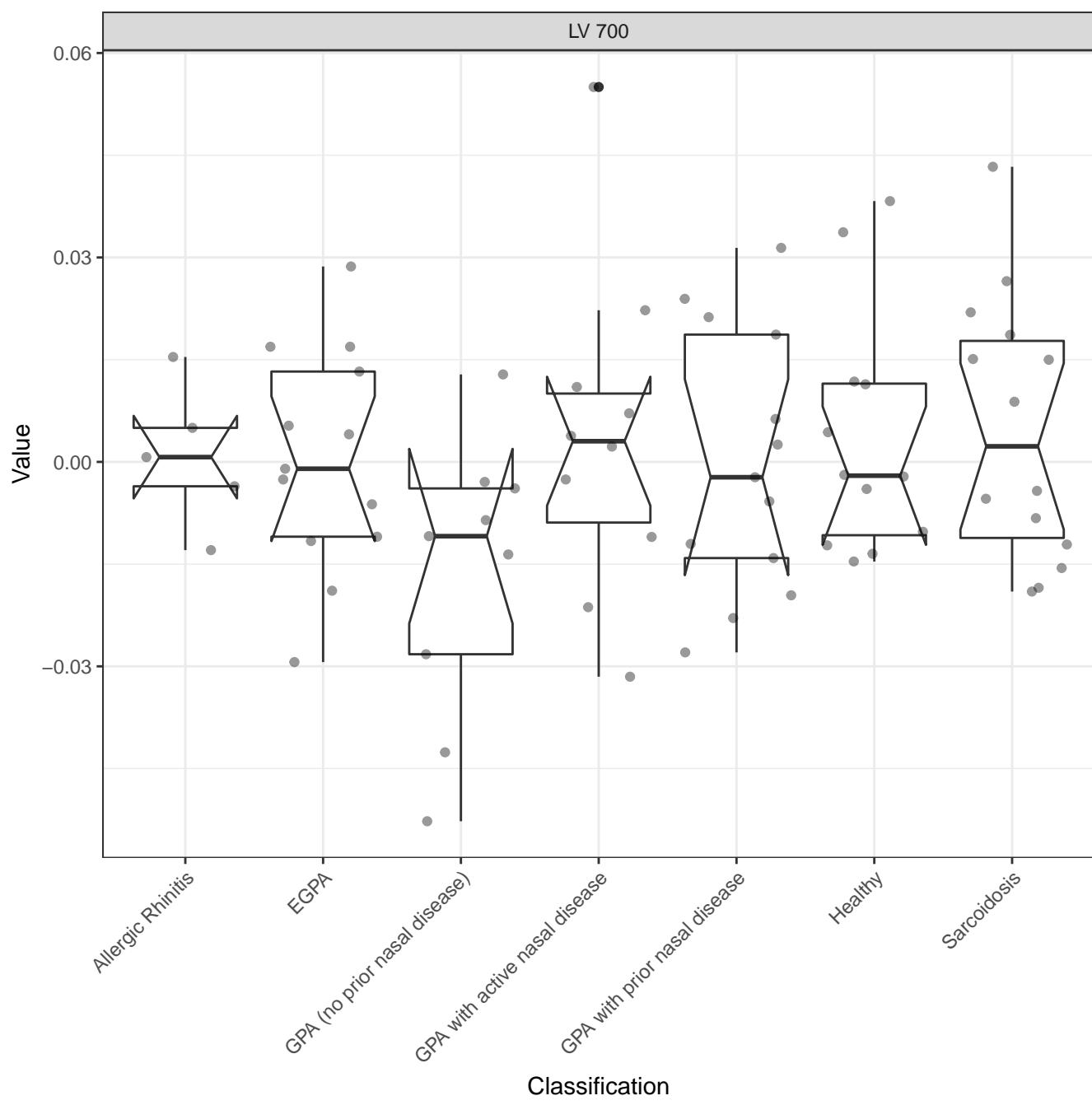
GPA with active nasal disease

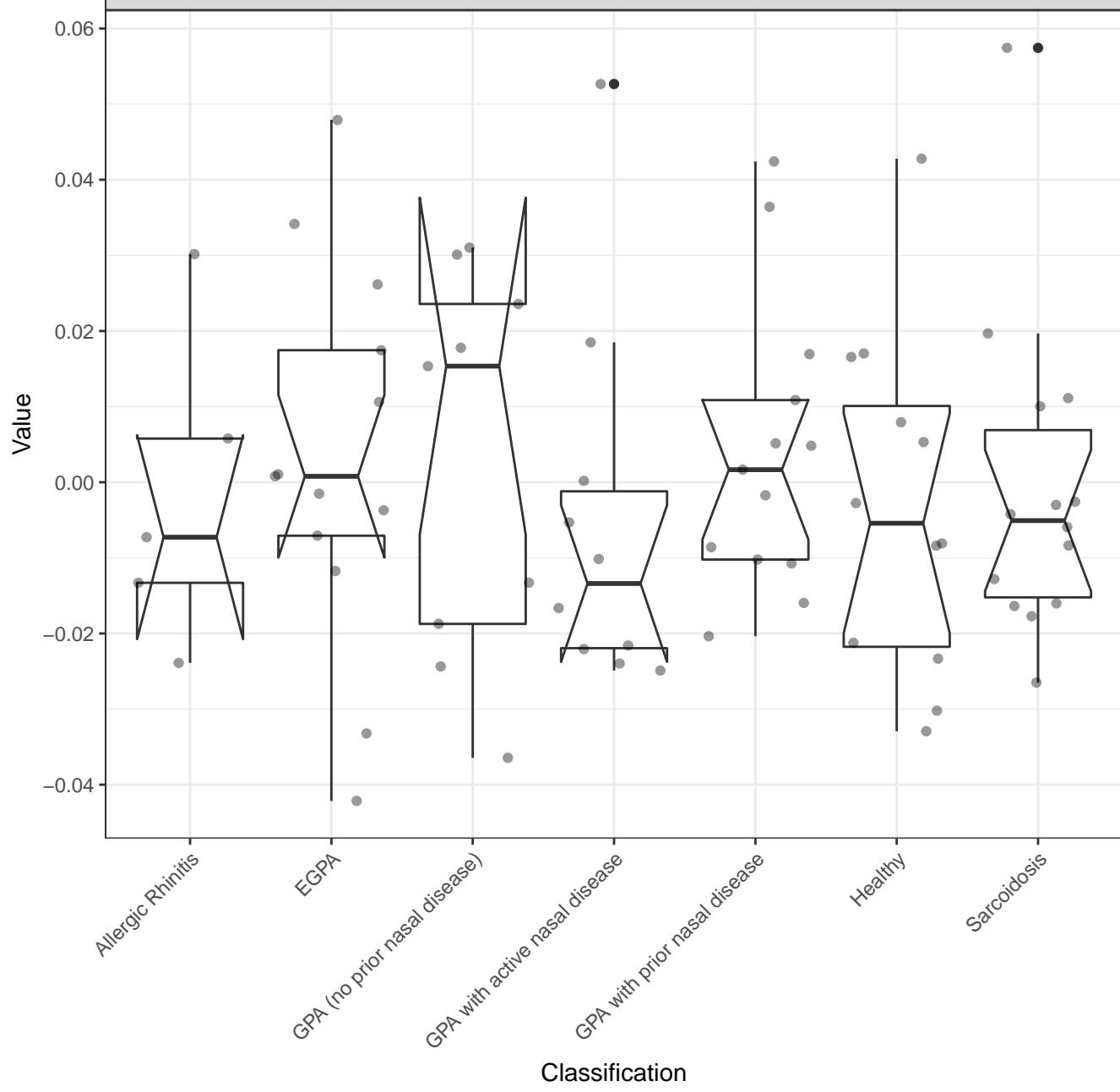
GPA with prior nasal disease

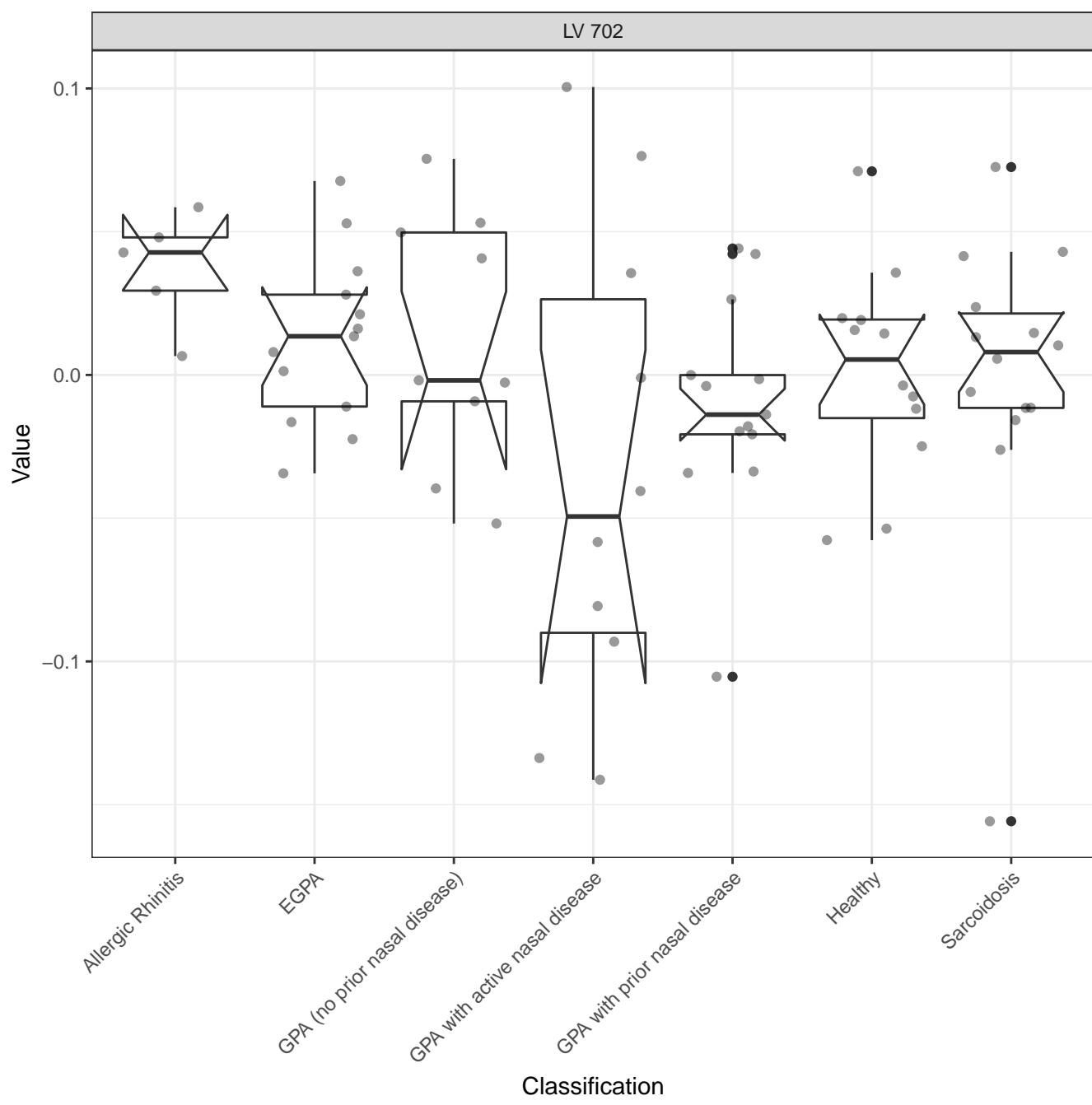
Healthy

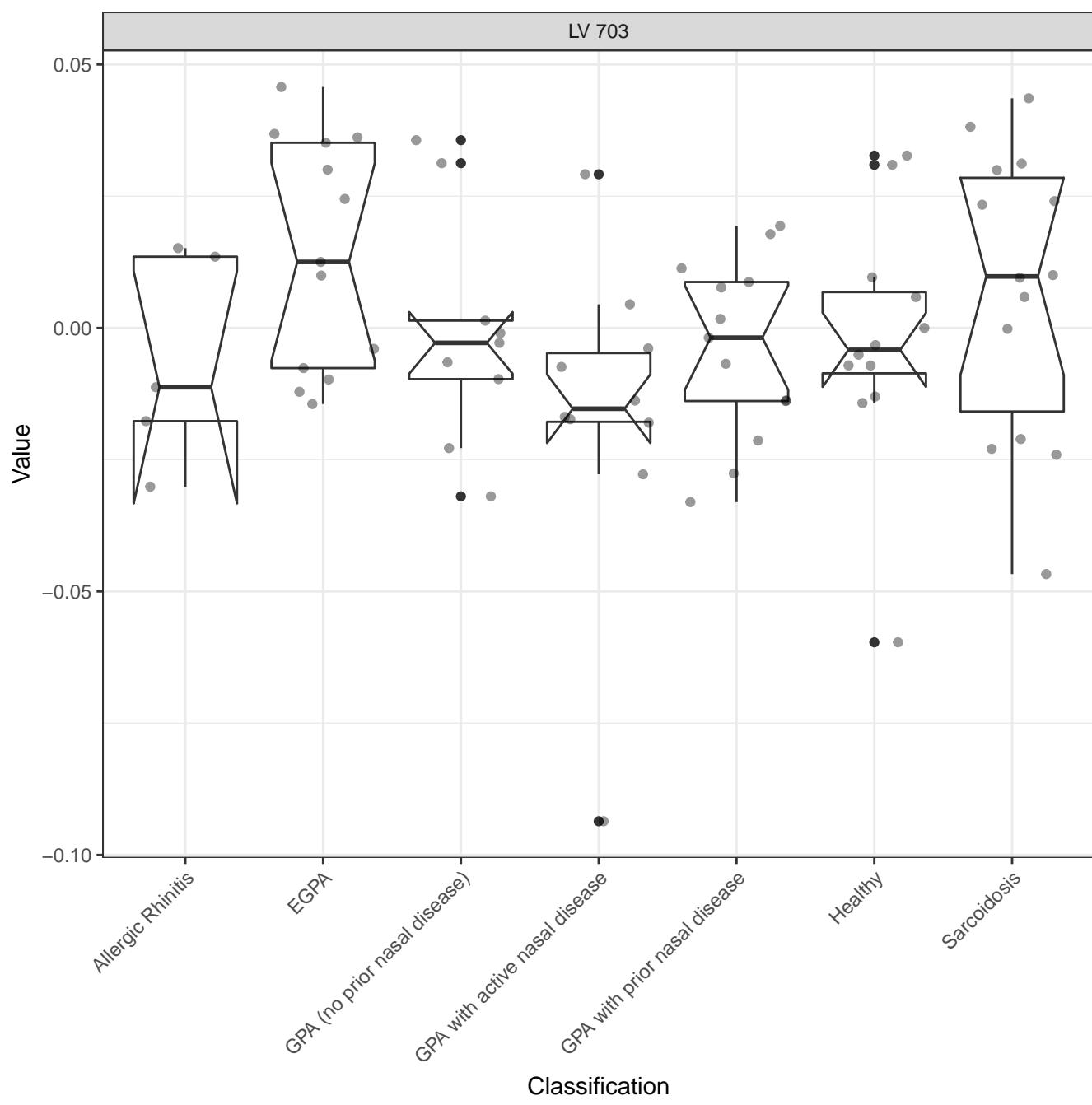
Sarcoidosis

Classification









Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 705,SVM NK cells activated

Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

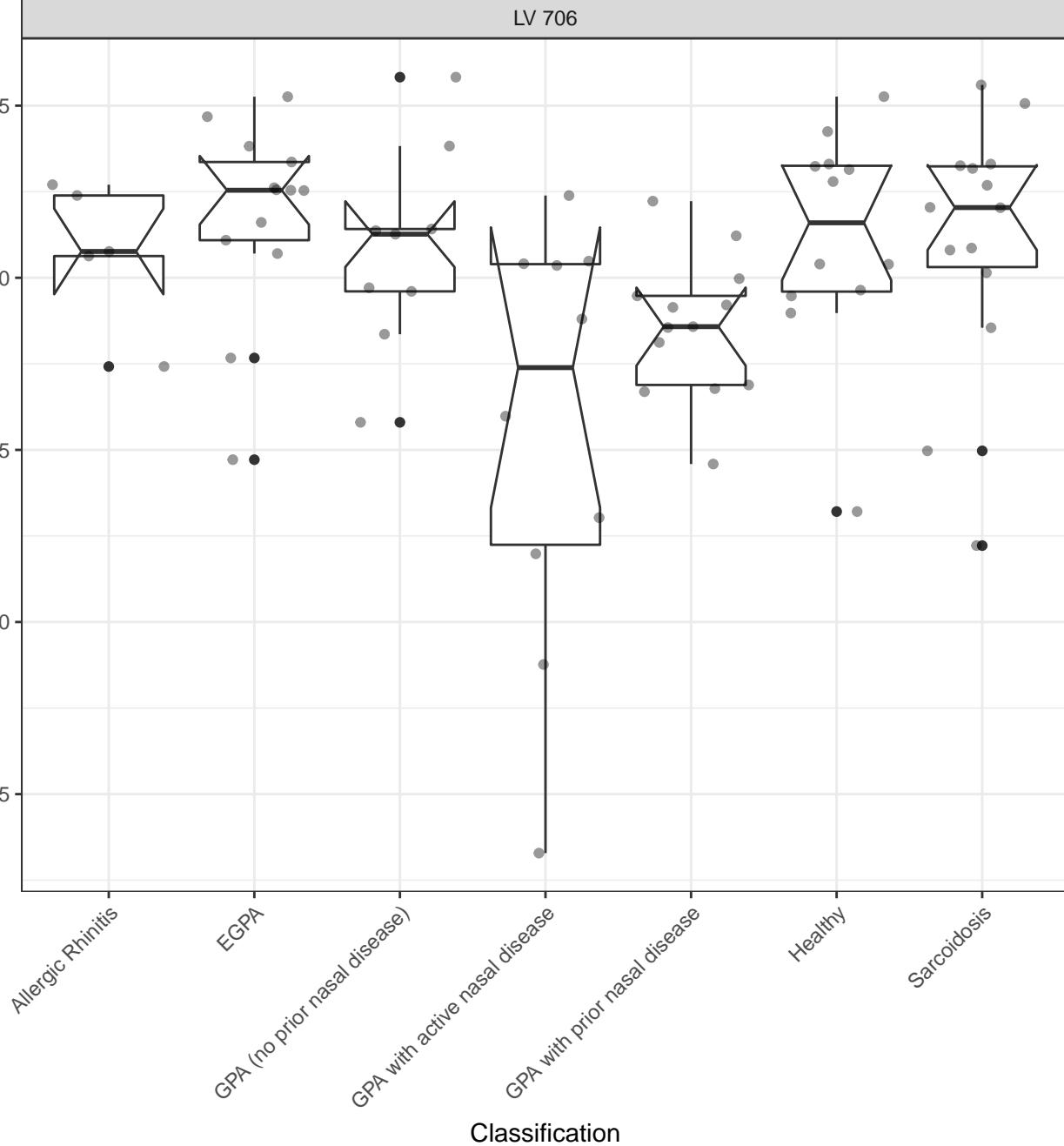
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05  
0.01  
-0.01  
-0.05  
-0.10  
-0.15

## 707,REACTOME\_PEPTIDE\_CHAIN\_ELONGATION

Value

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

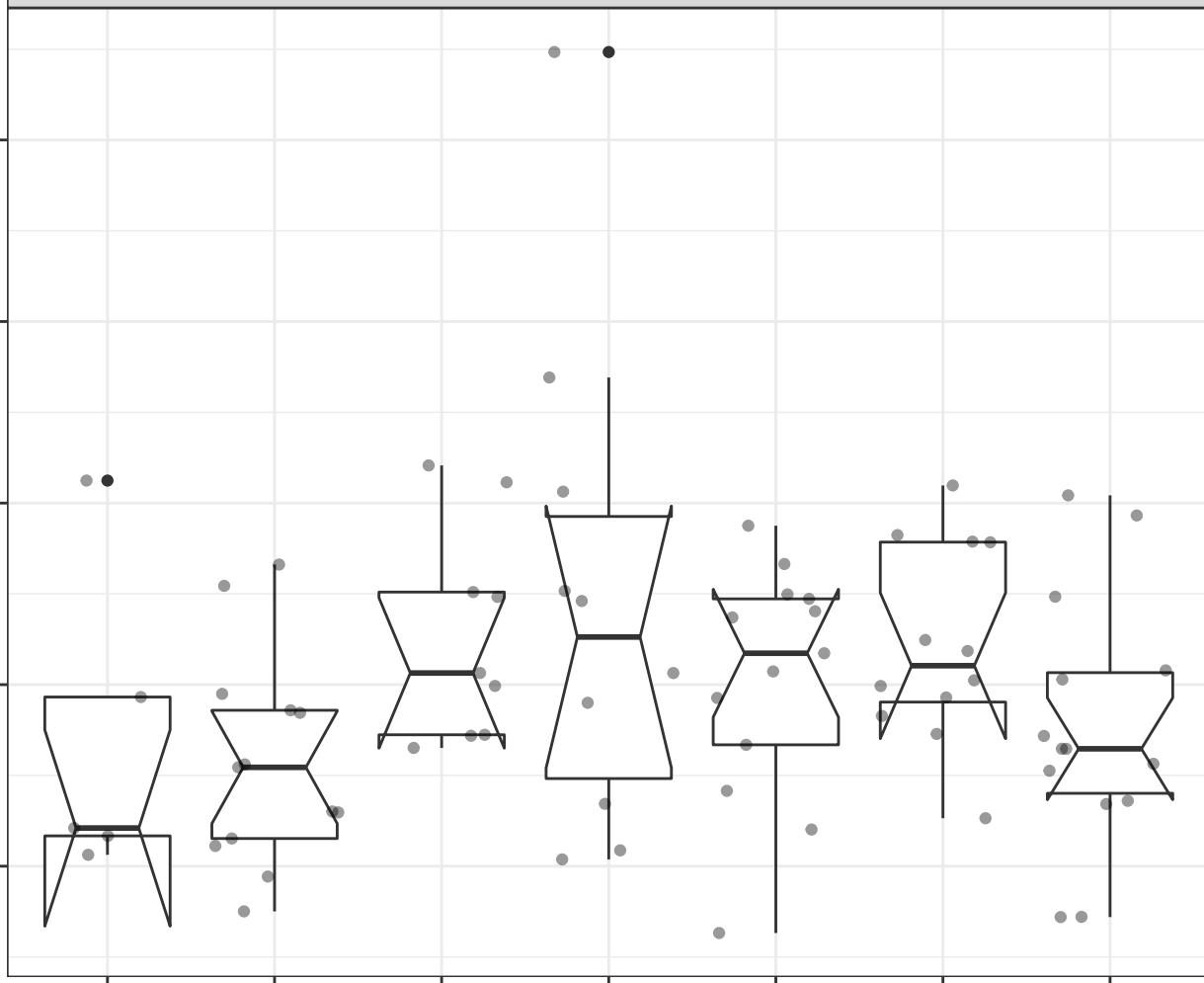
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

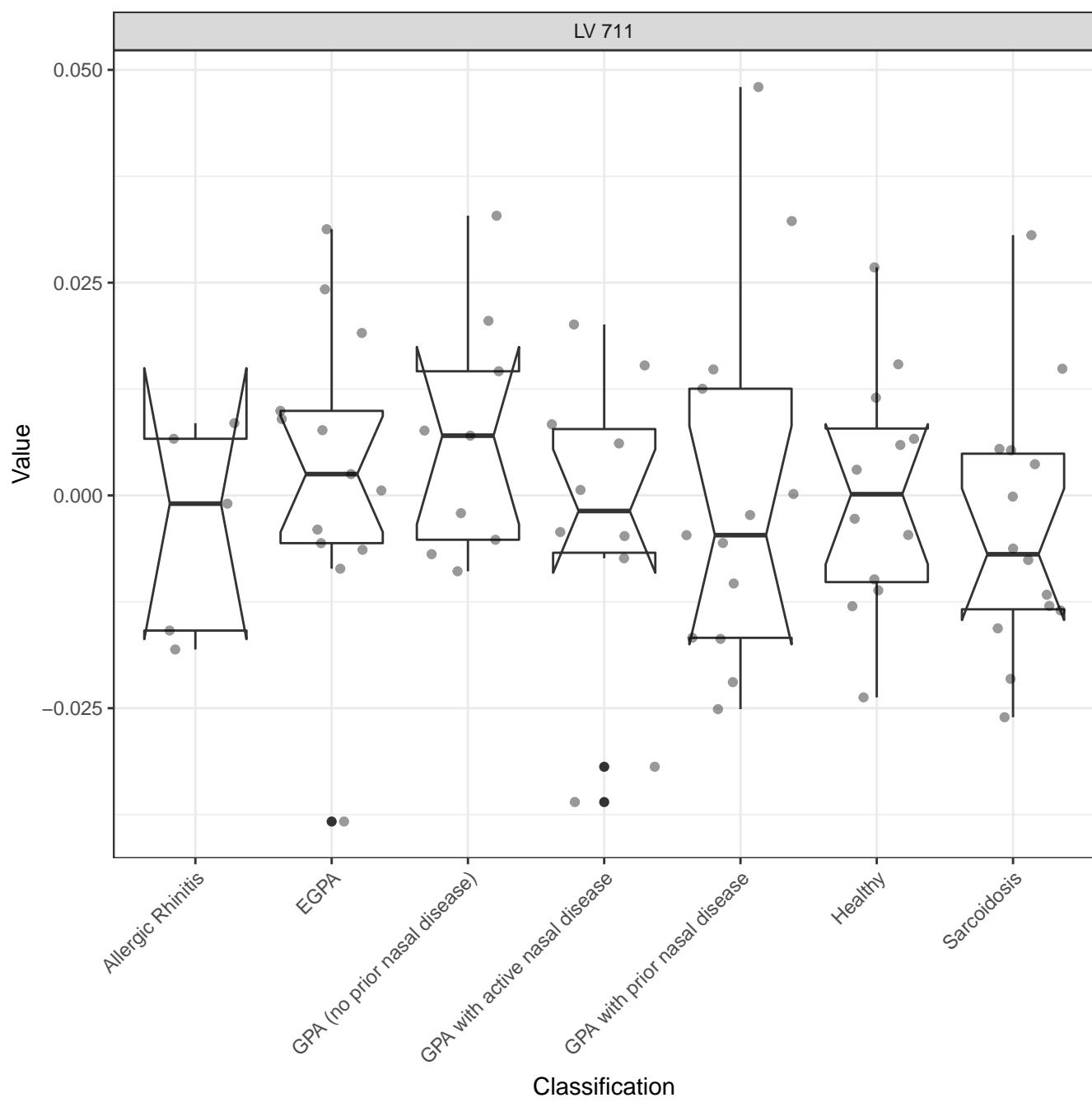
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

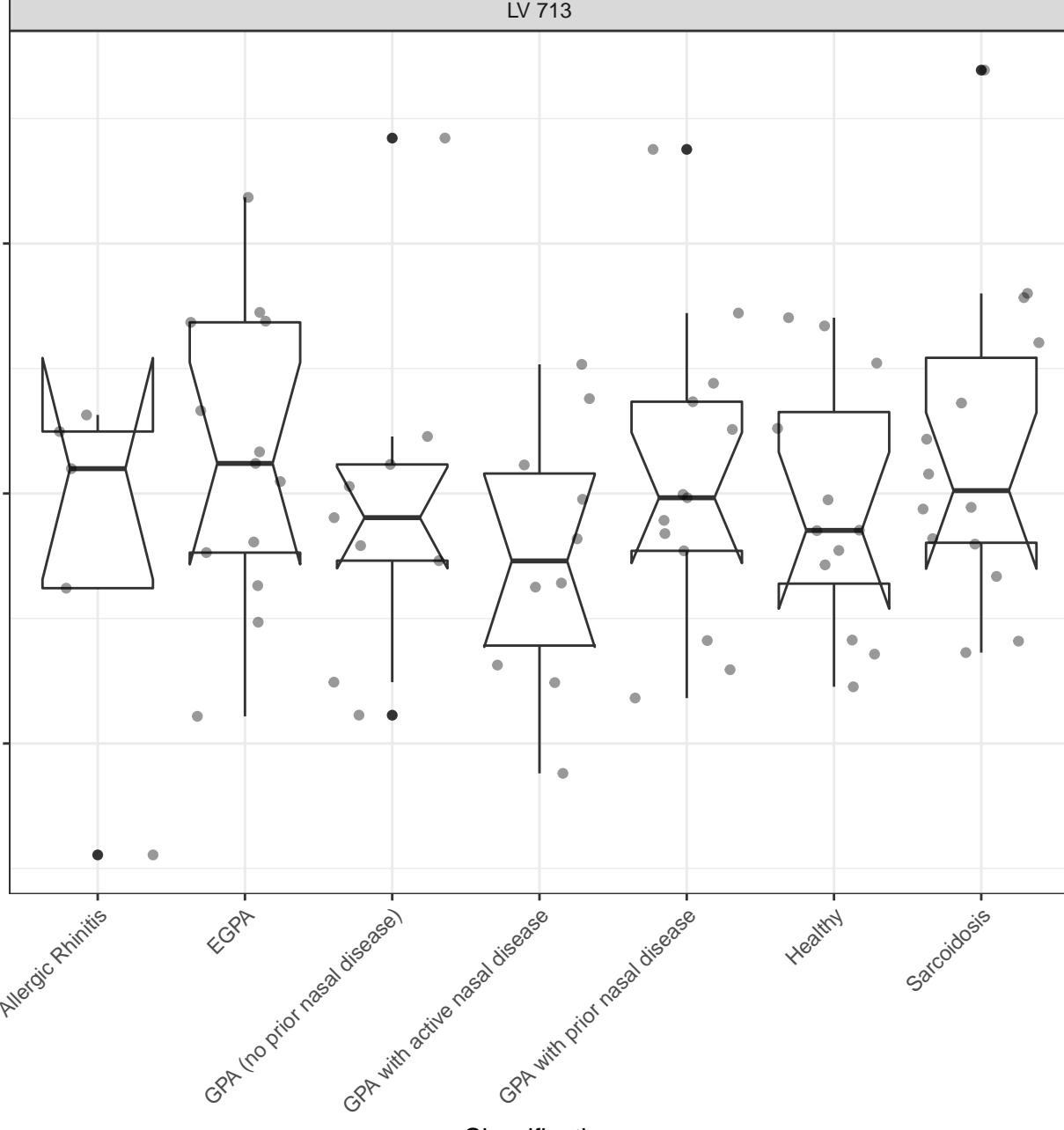
GPA with active nasal disease

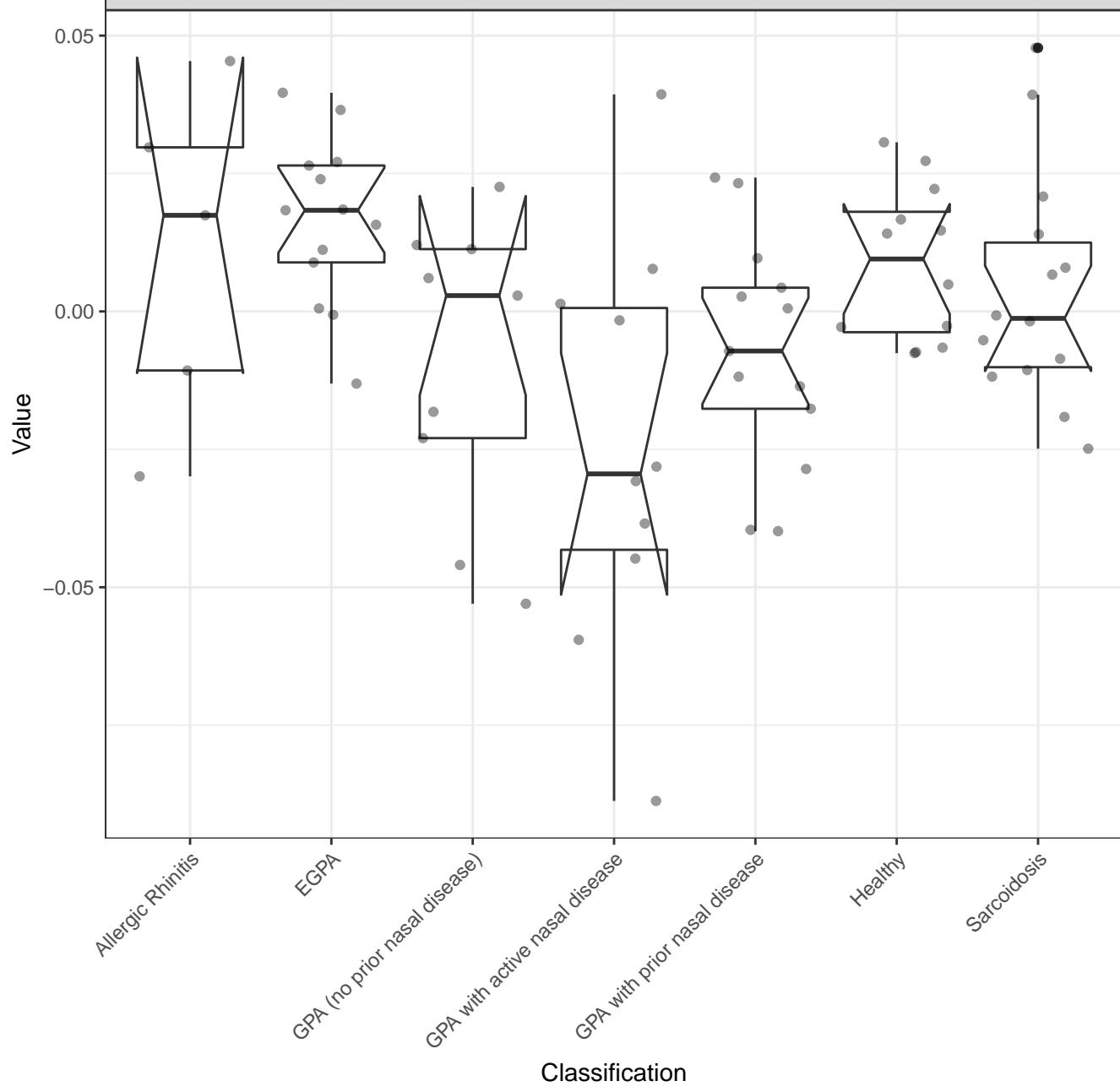
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

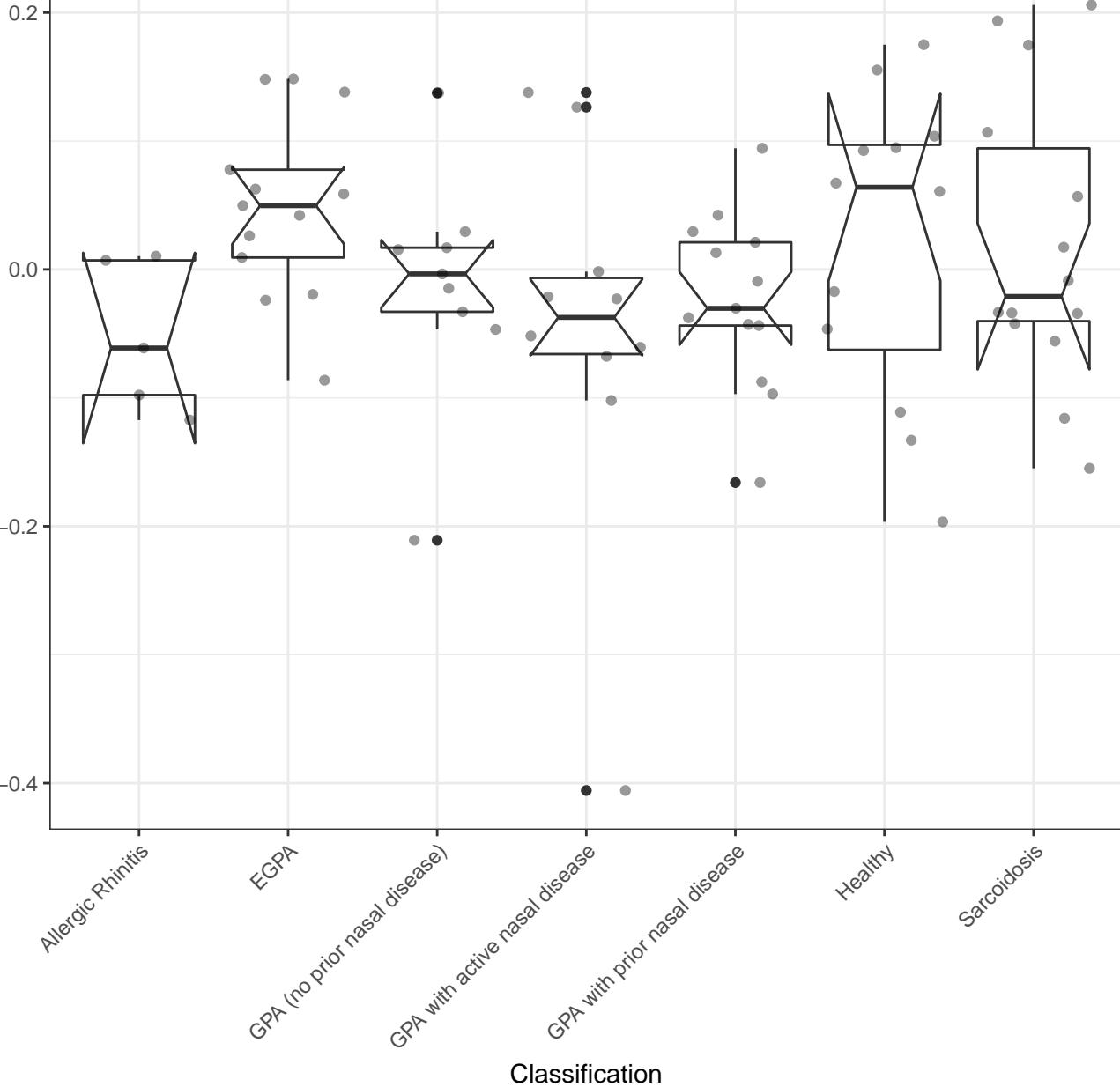
Healthy

Sarcoidosis

Classification

## 720,PID\_FANCONI\_PATHWAY

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

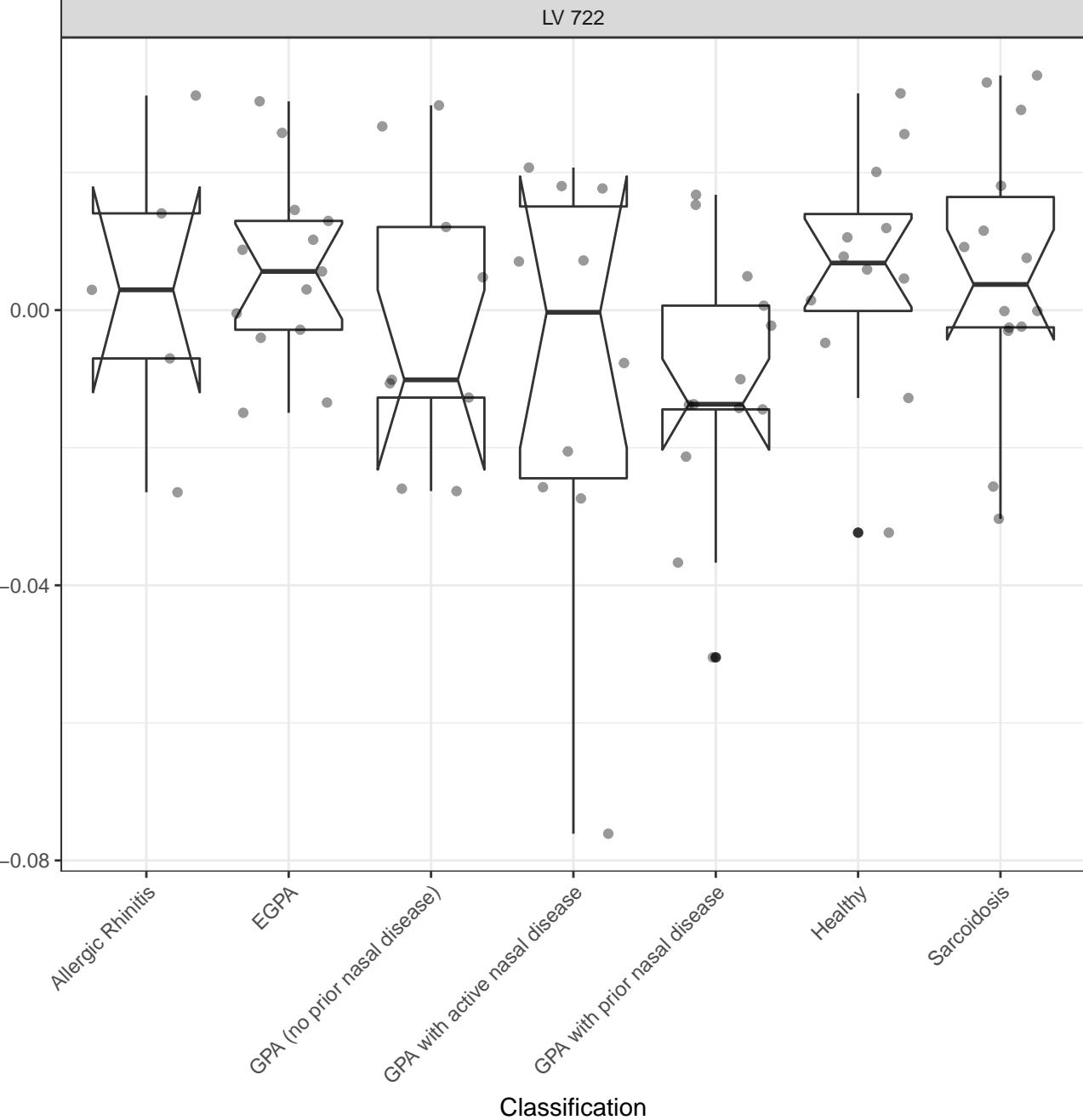
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

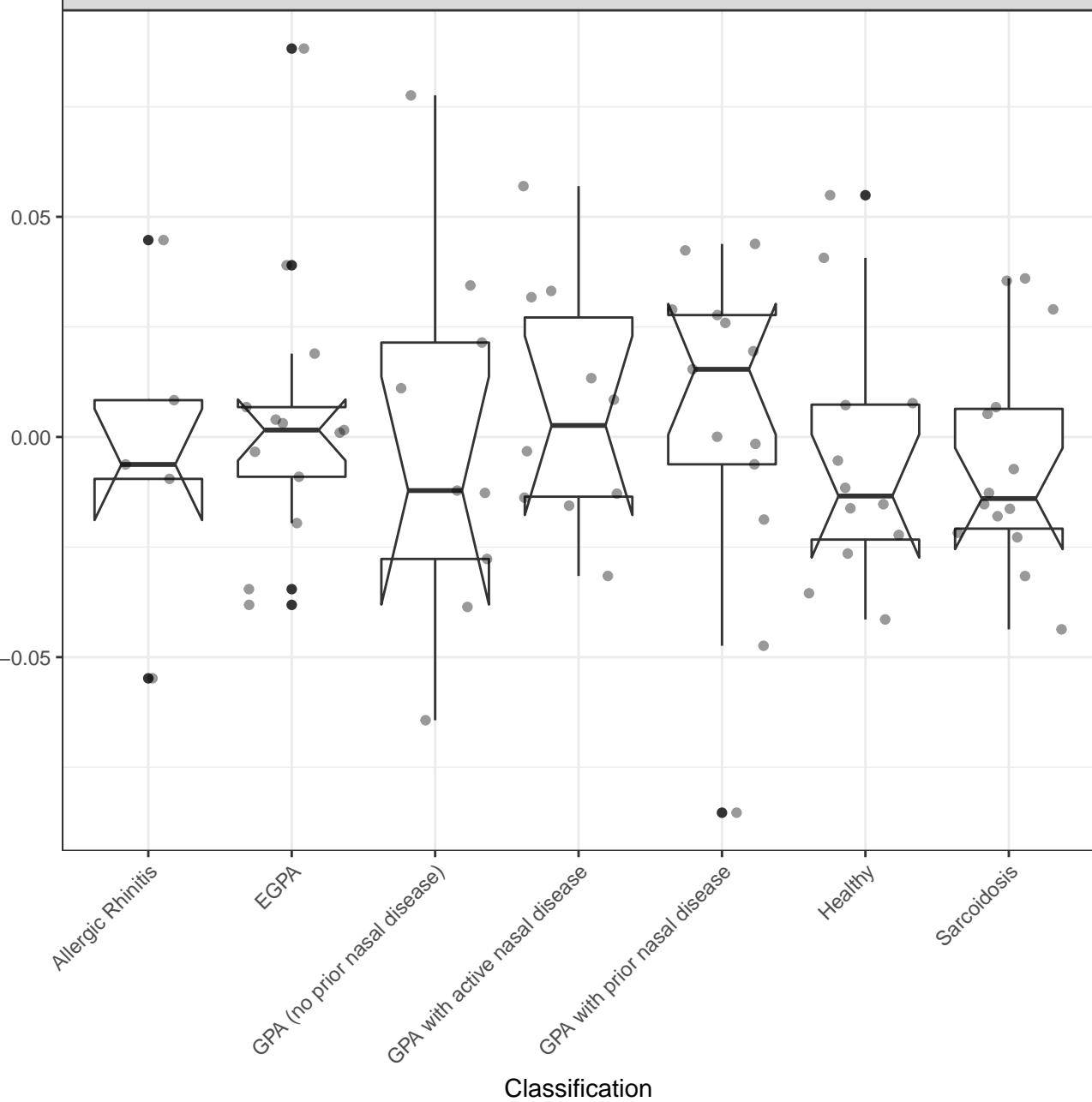
GPA with prior nasal disease

Healthy

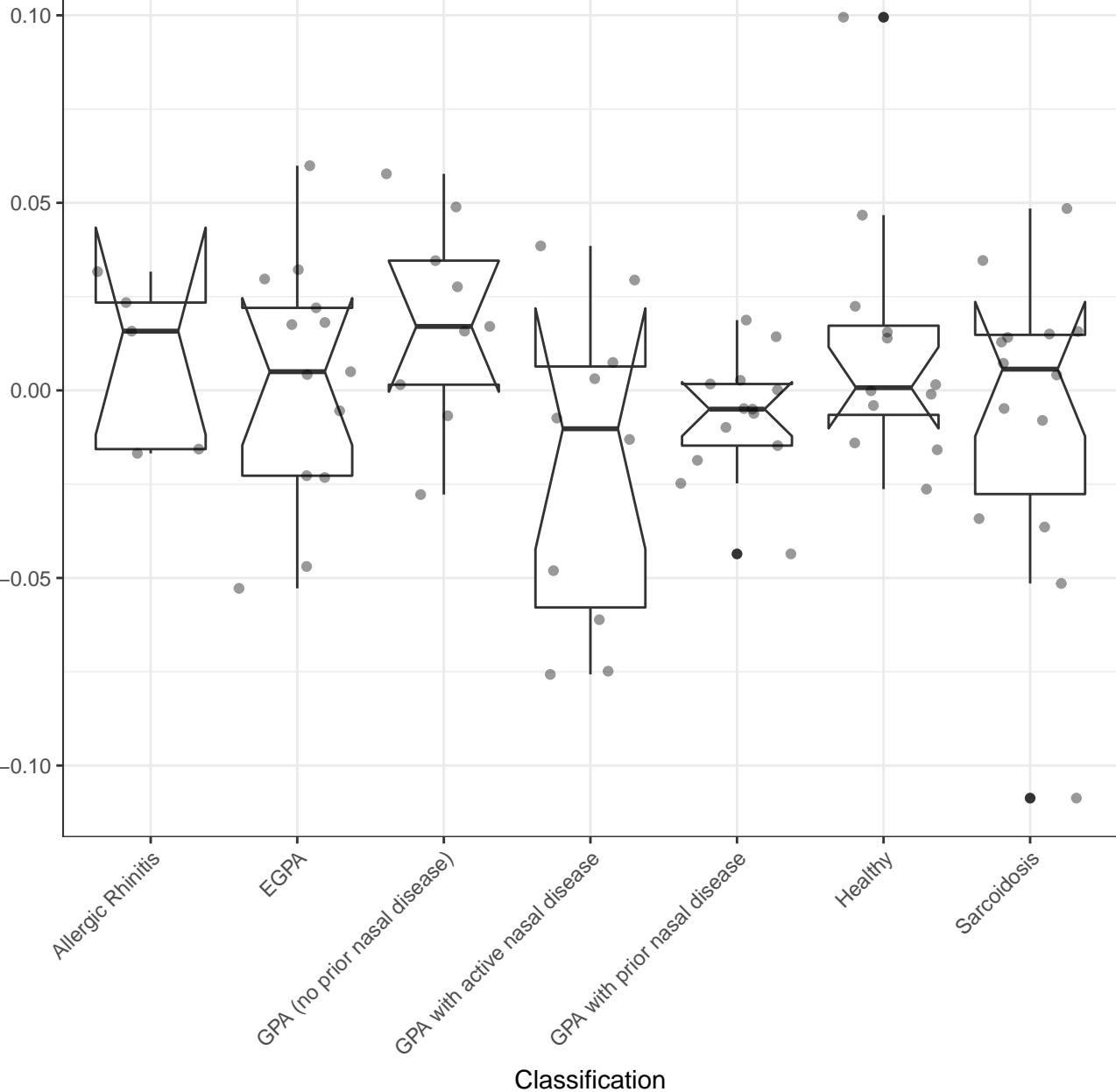
Sarcoidosis

Classification

Value



Value



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15

0.10

0.05

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 728,SVM Mast cells activated

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

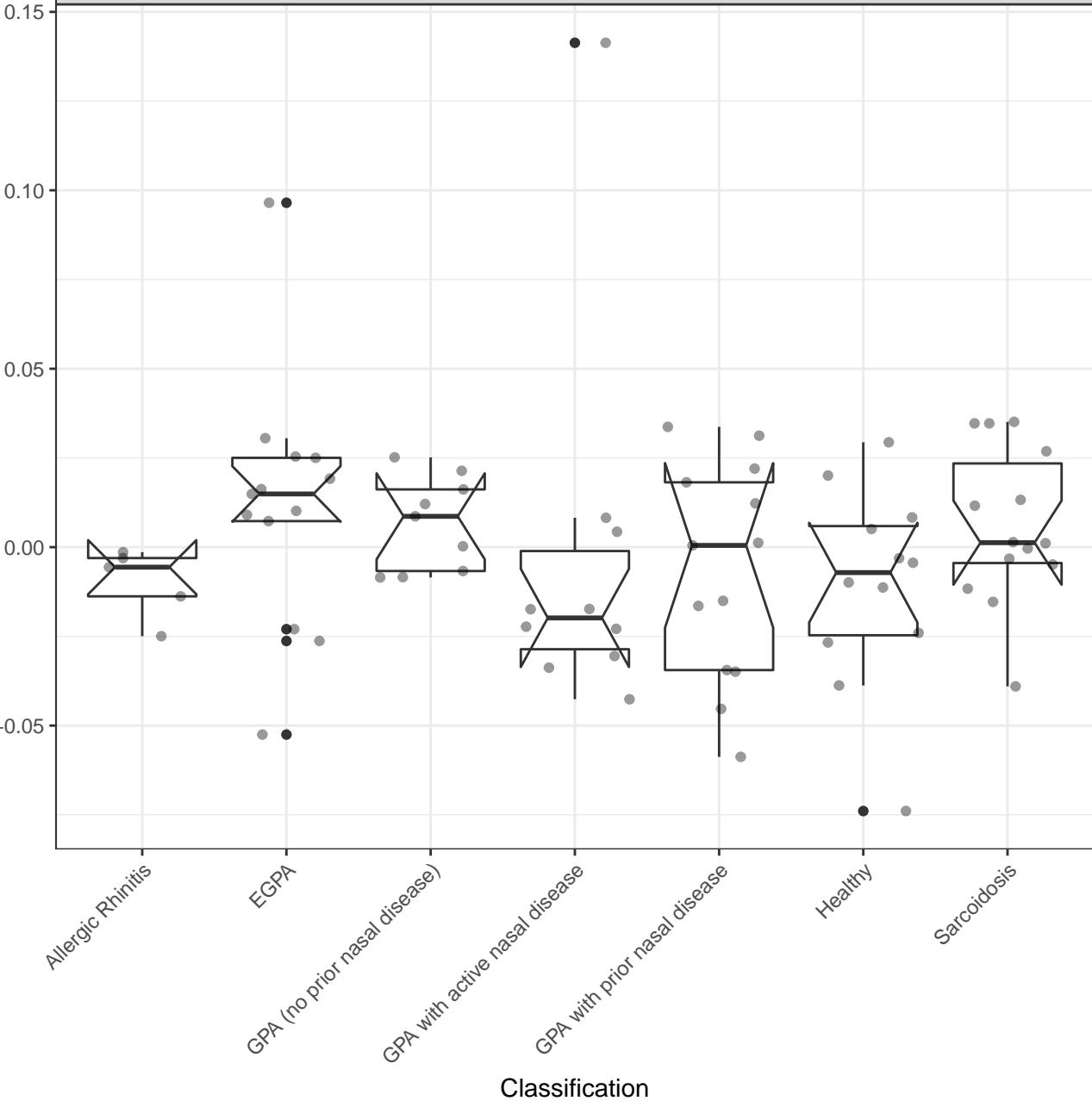
GPA with prior nasal disease

Healthy

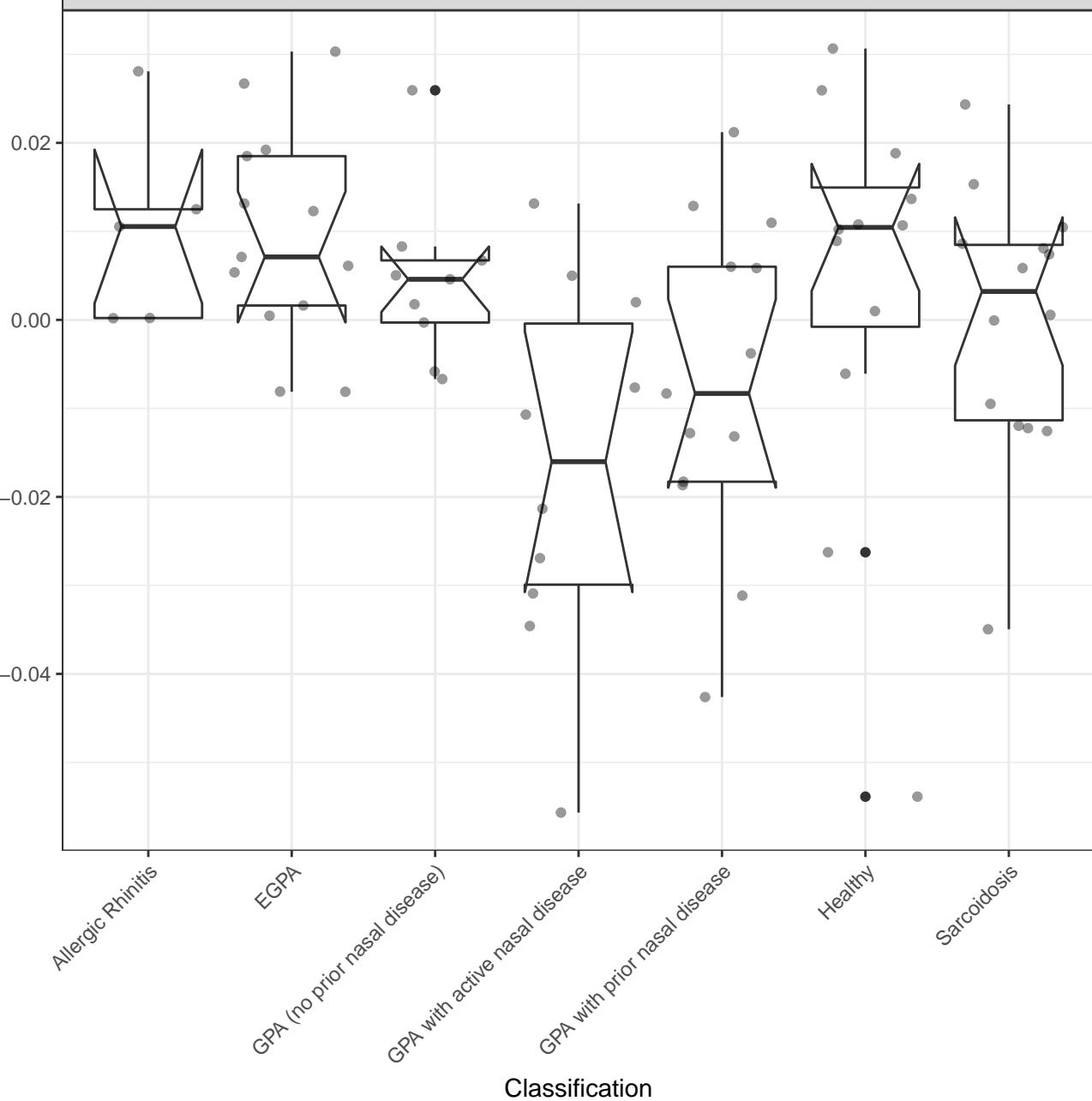
Sarcoidosis

Classification

Value



Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

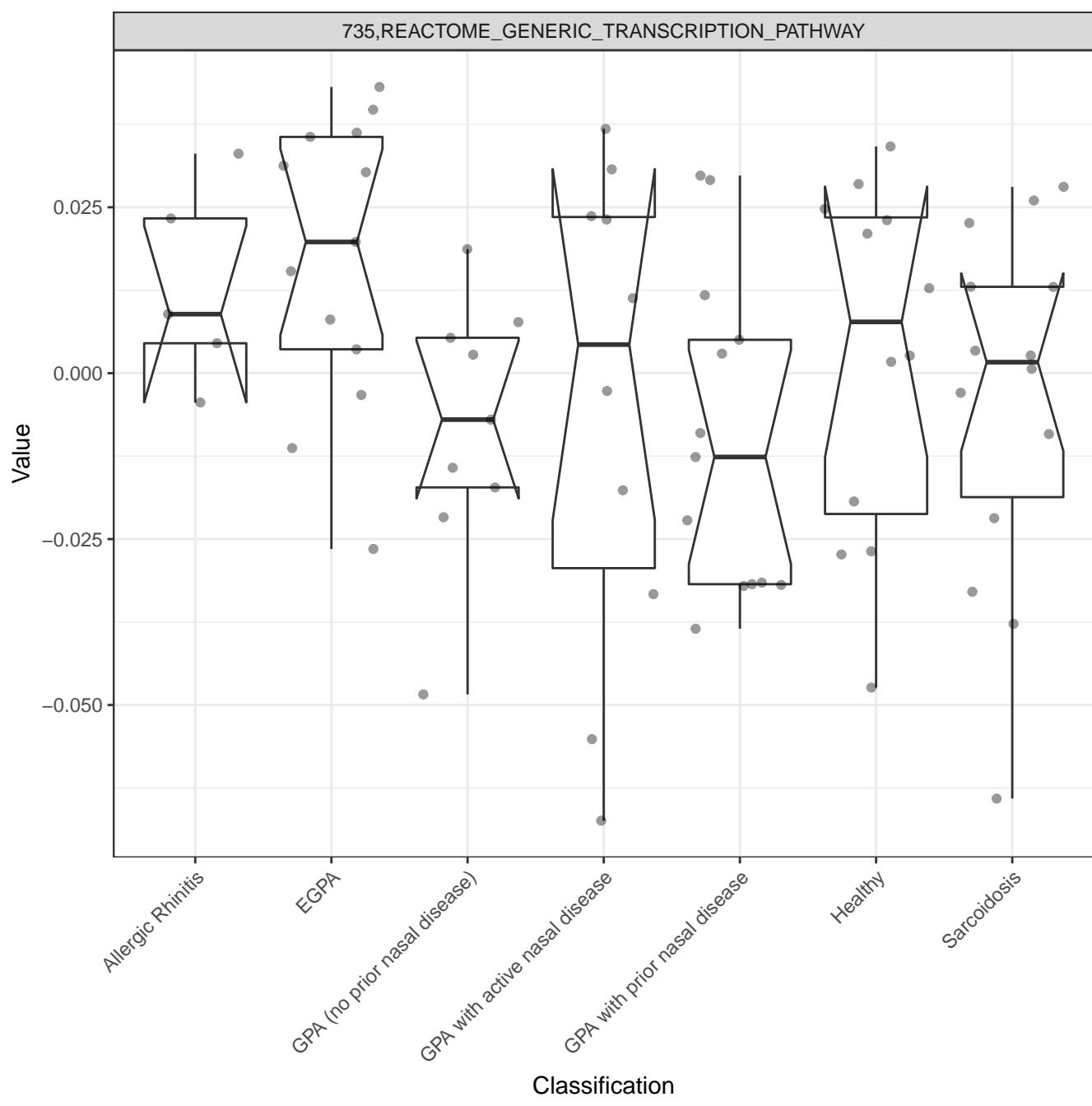
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 735,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

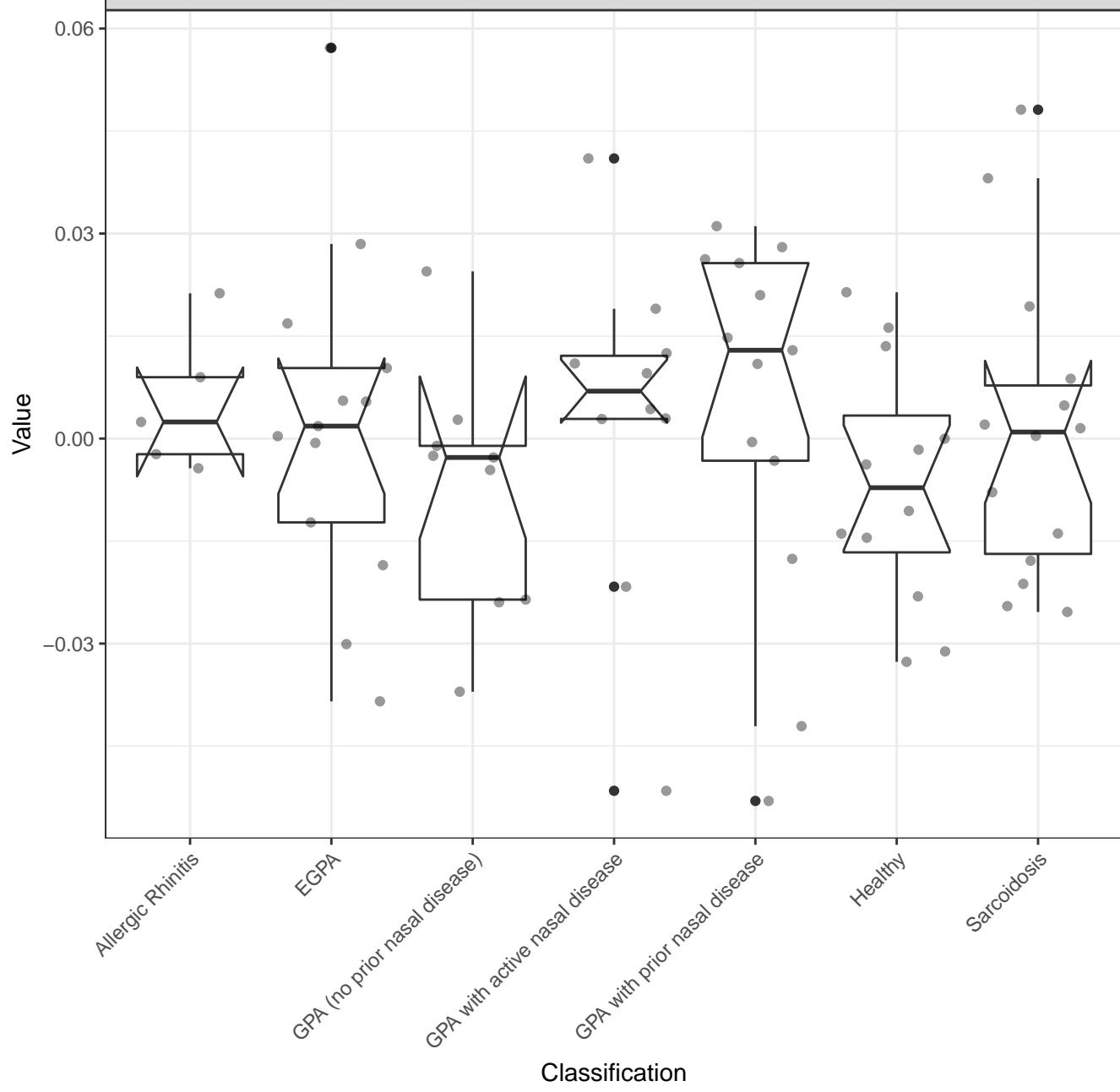
GPA with active nasal disease

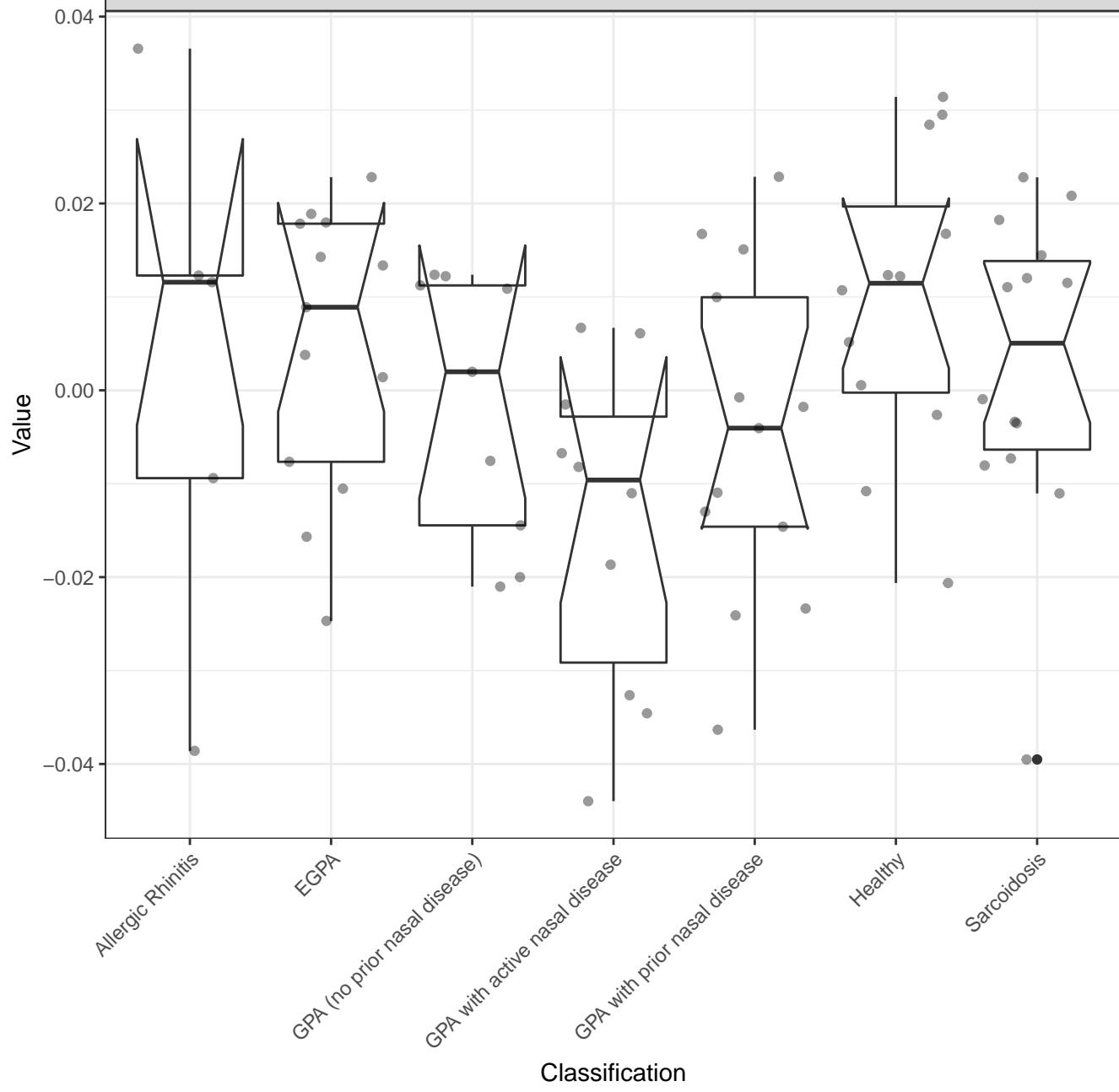
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





## 739,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

0.1

0.0

-0.1

-0.2

-0.3

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 743,MIPS\_55S\_RIBOSOME MITOCHONDRIAL

Value

0.2

0.0

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

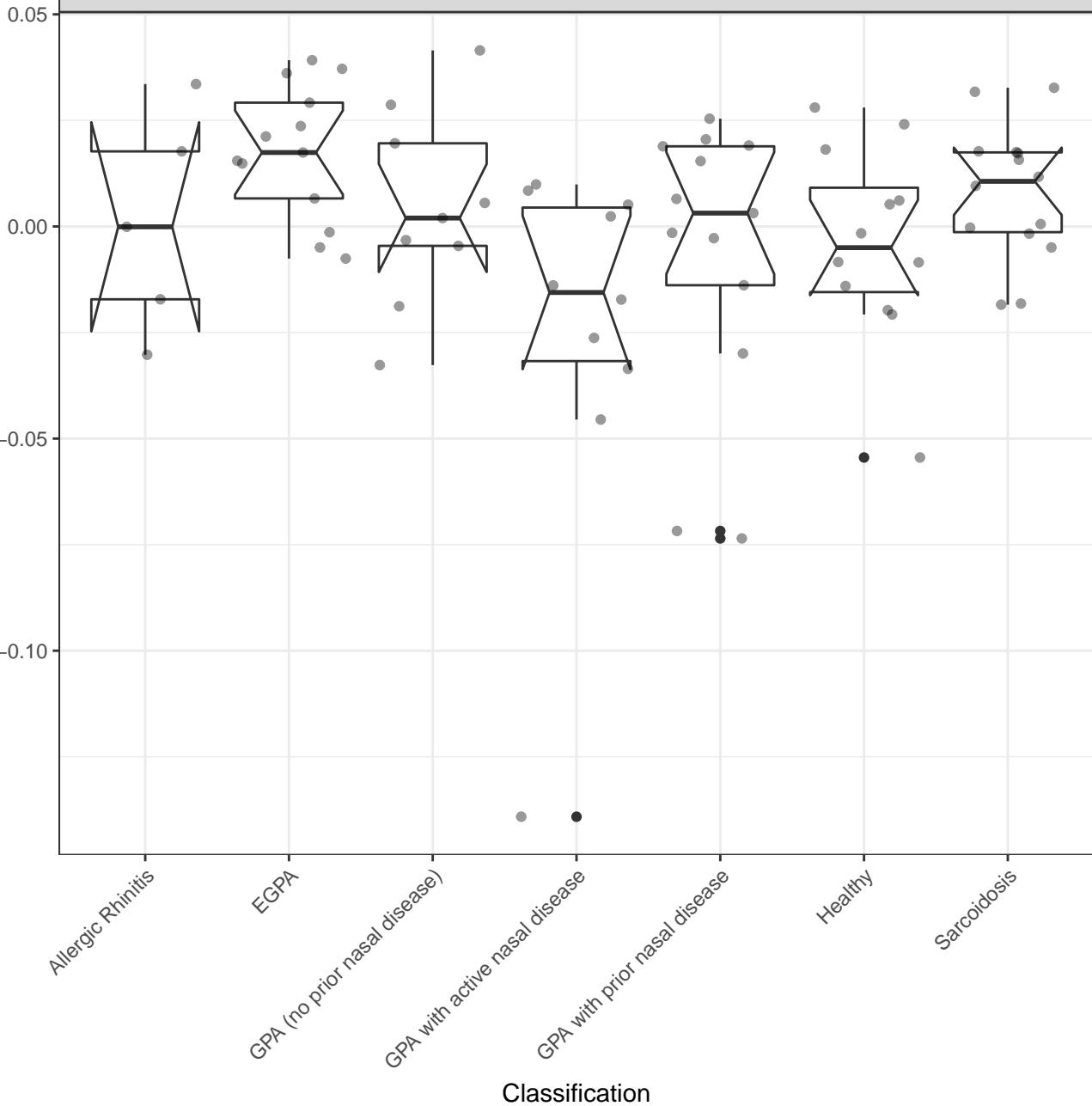
Healthy

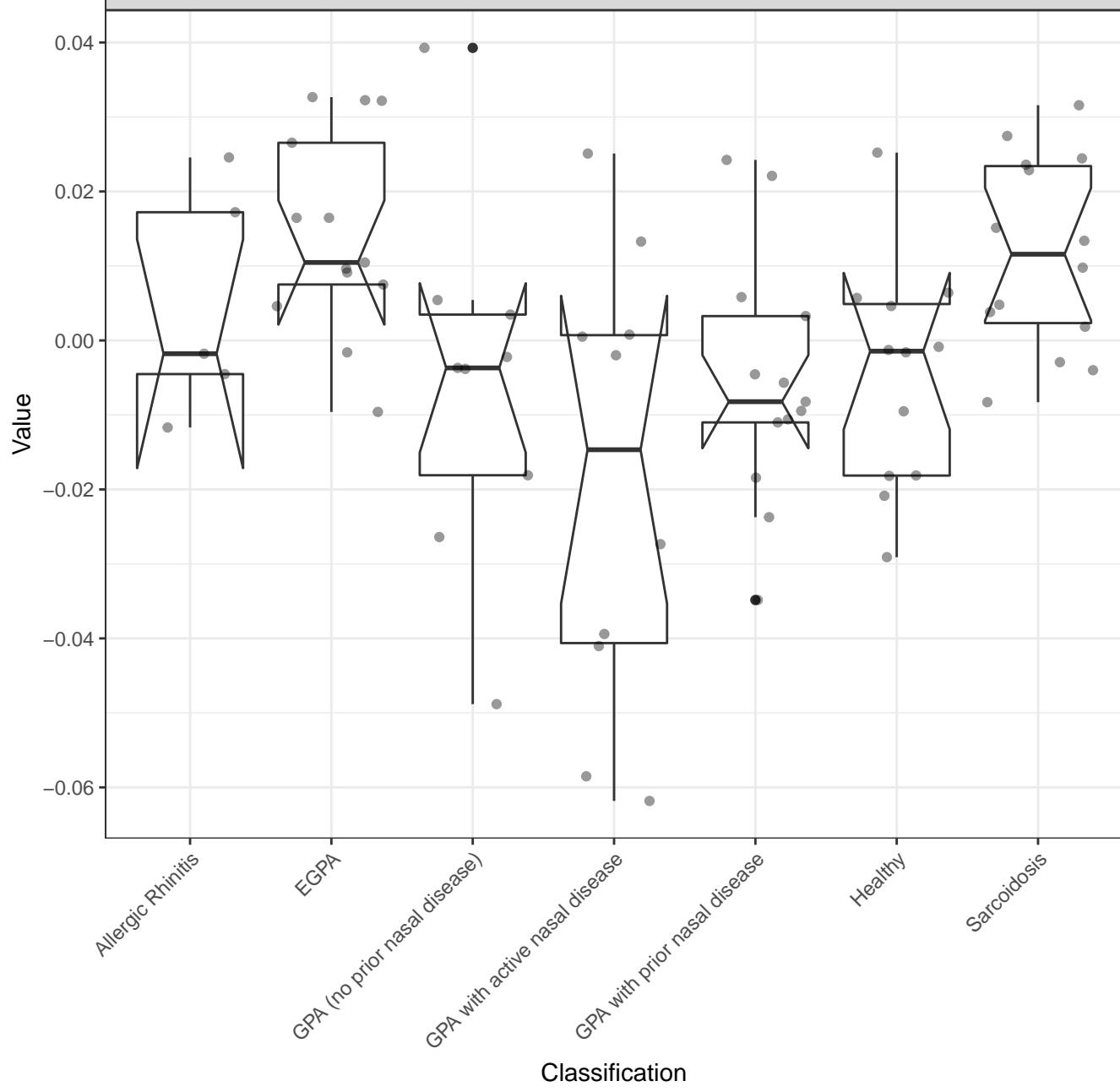
Sarcoidosis

Classification

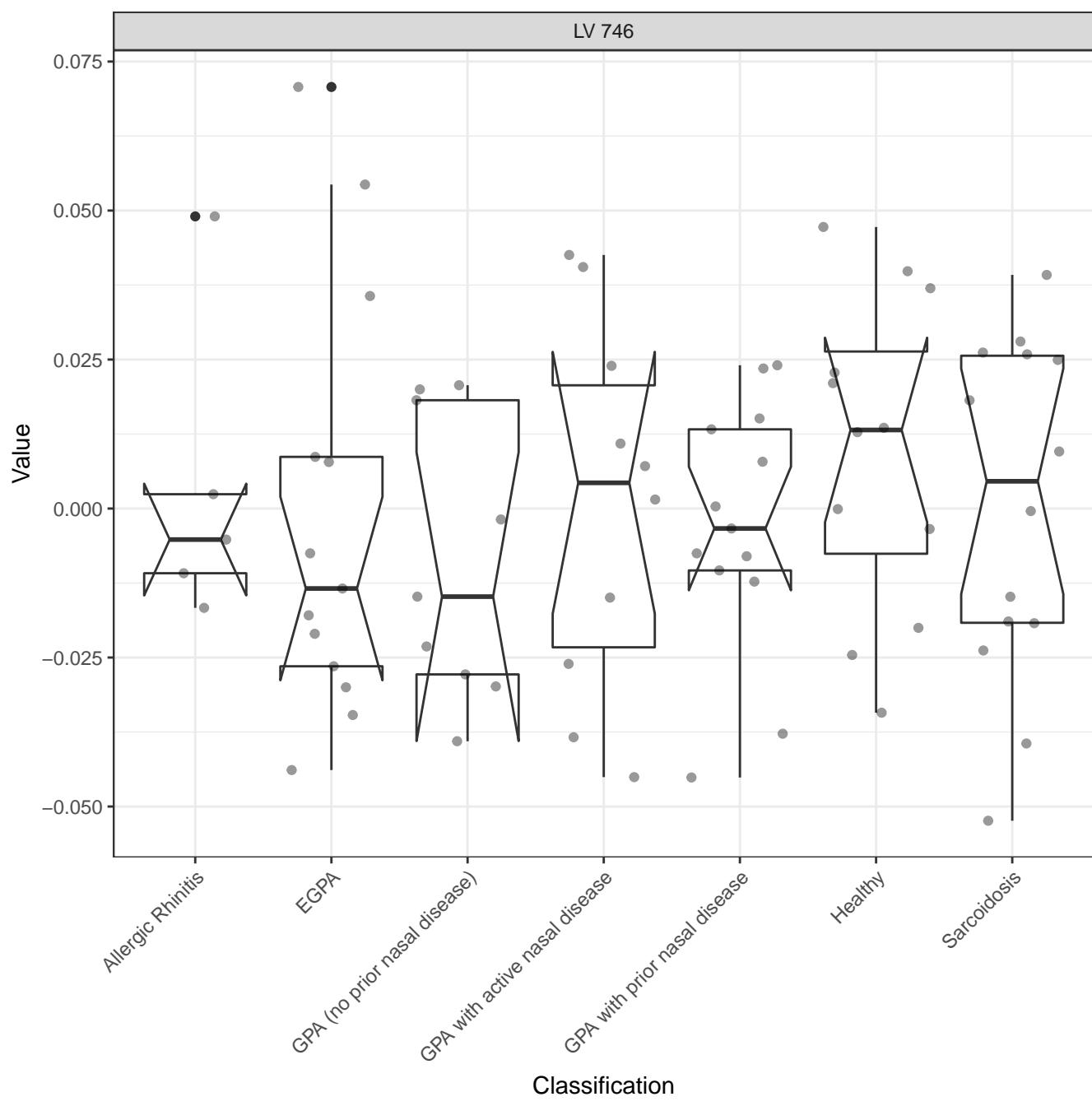
LV 744

Value





LV 746



LV 747

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

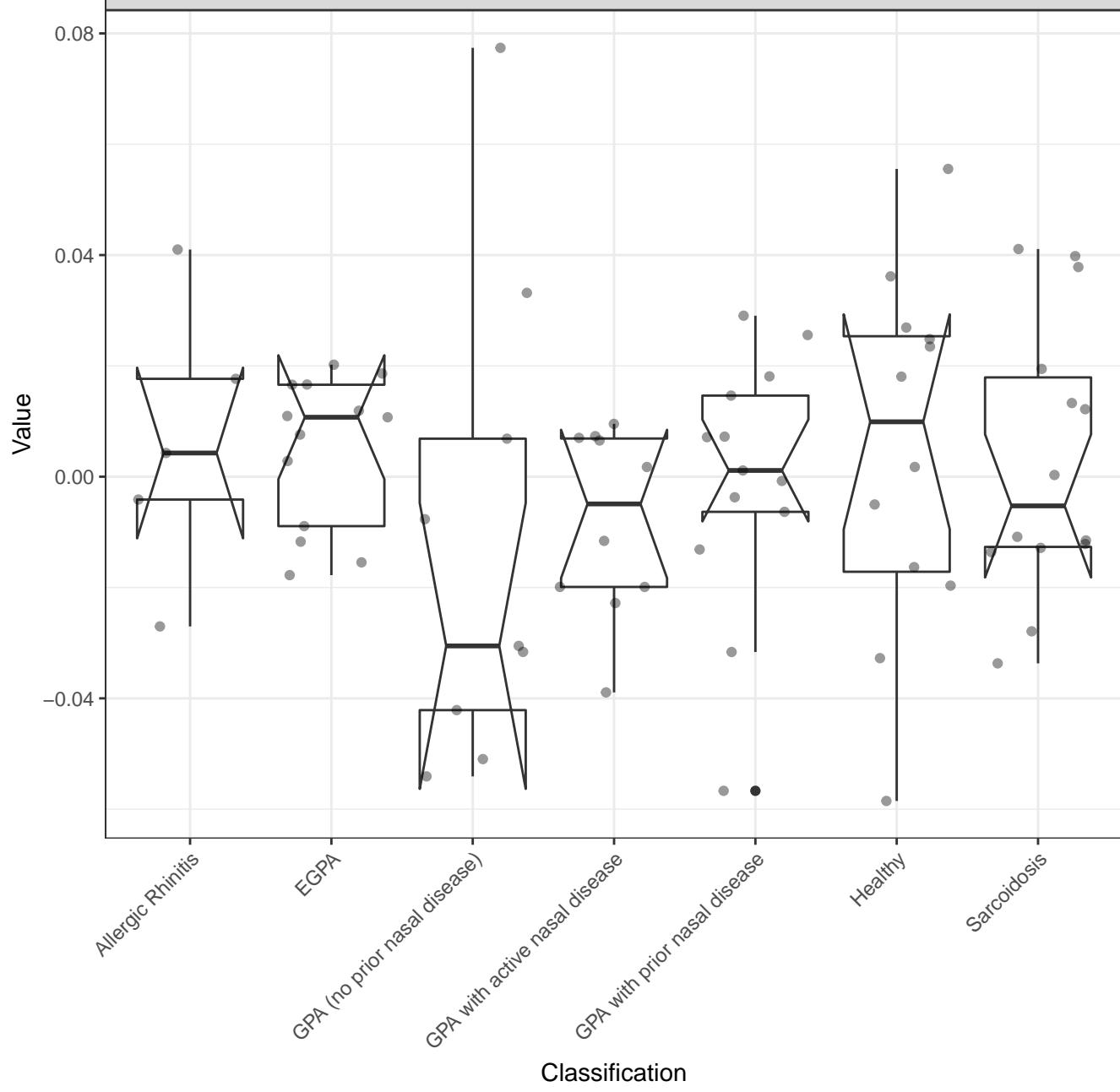
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

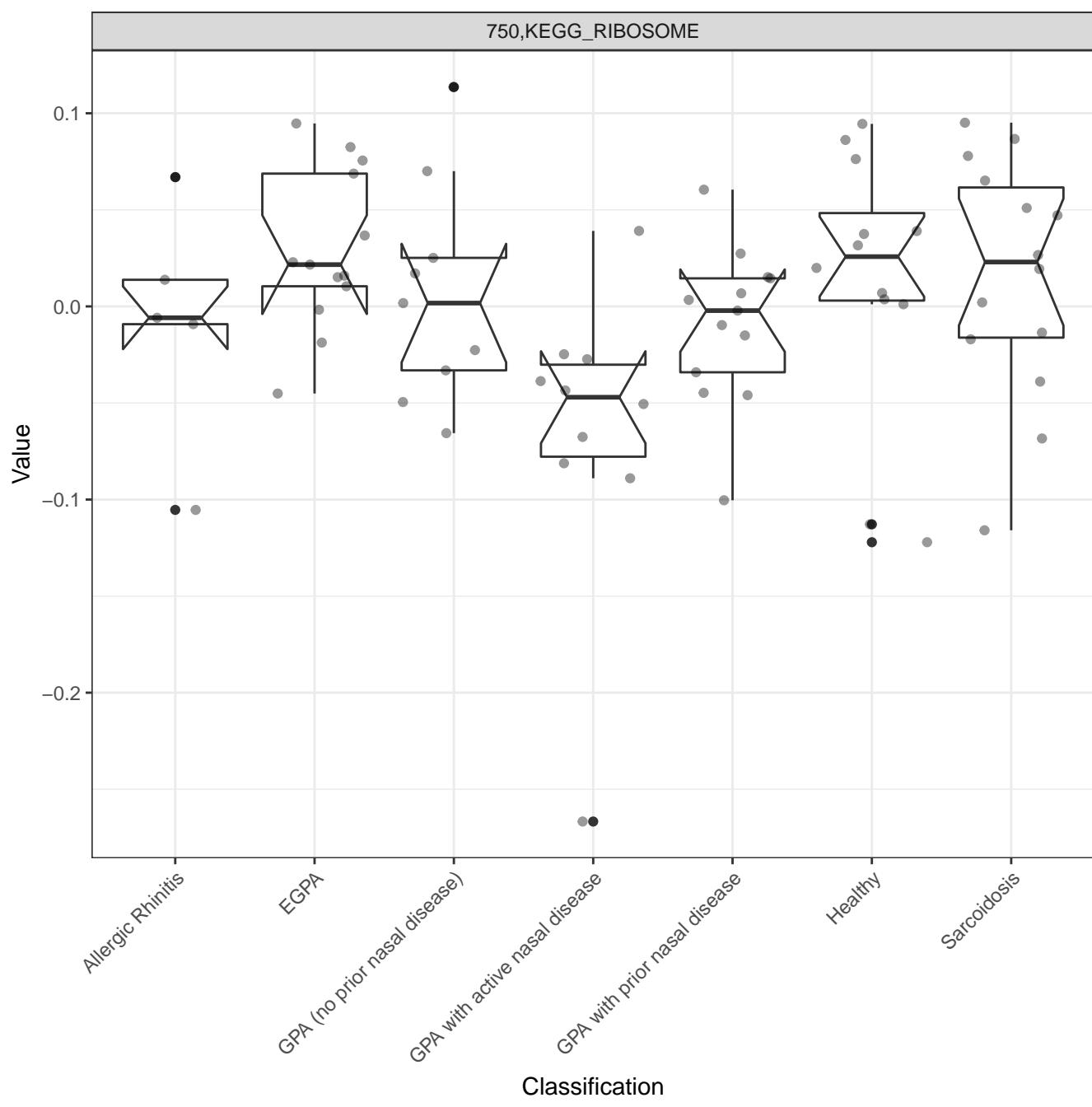
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 750,KEGG\_RIBOSOME



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

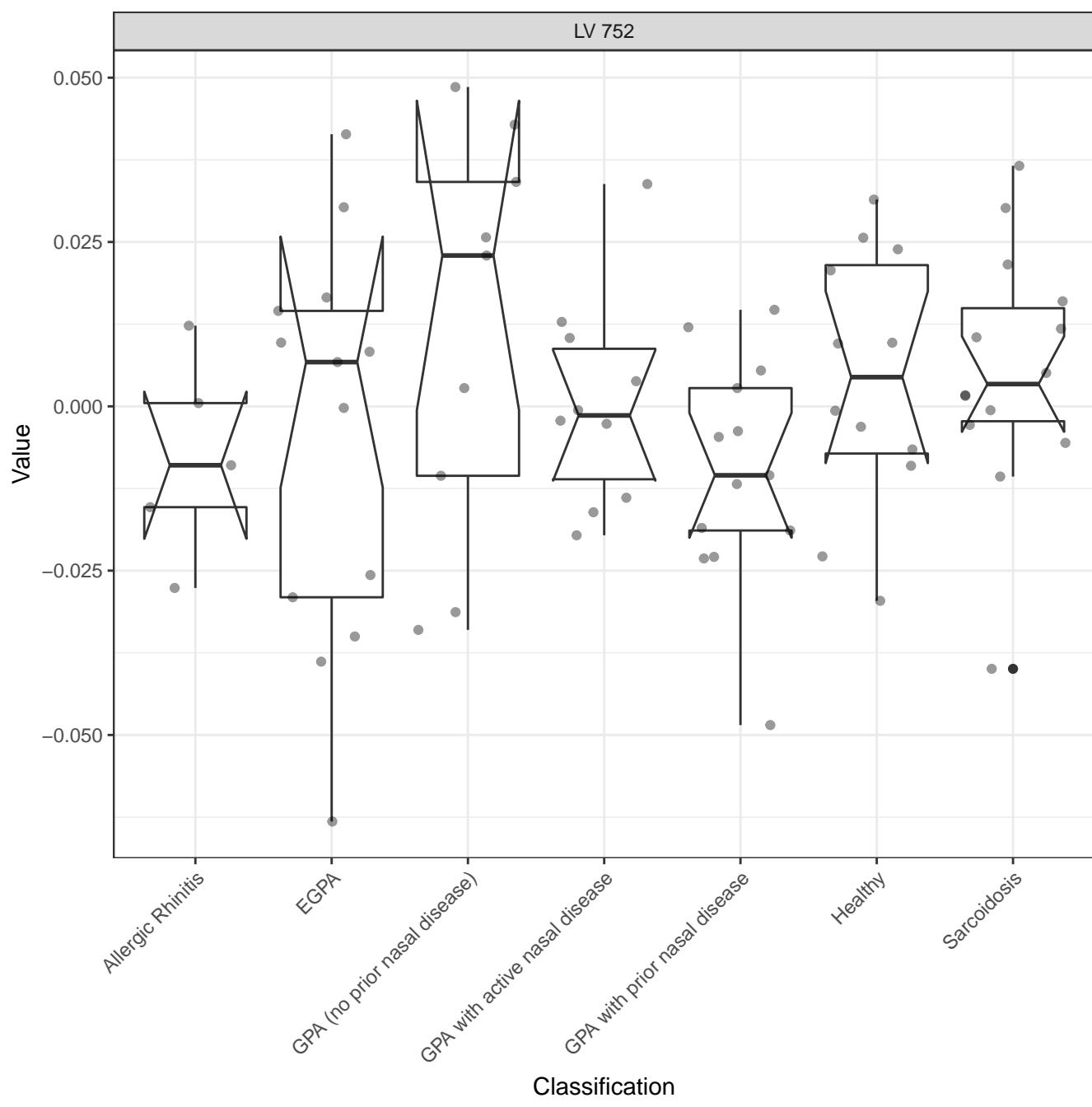
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.050

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

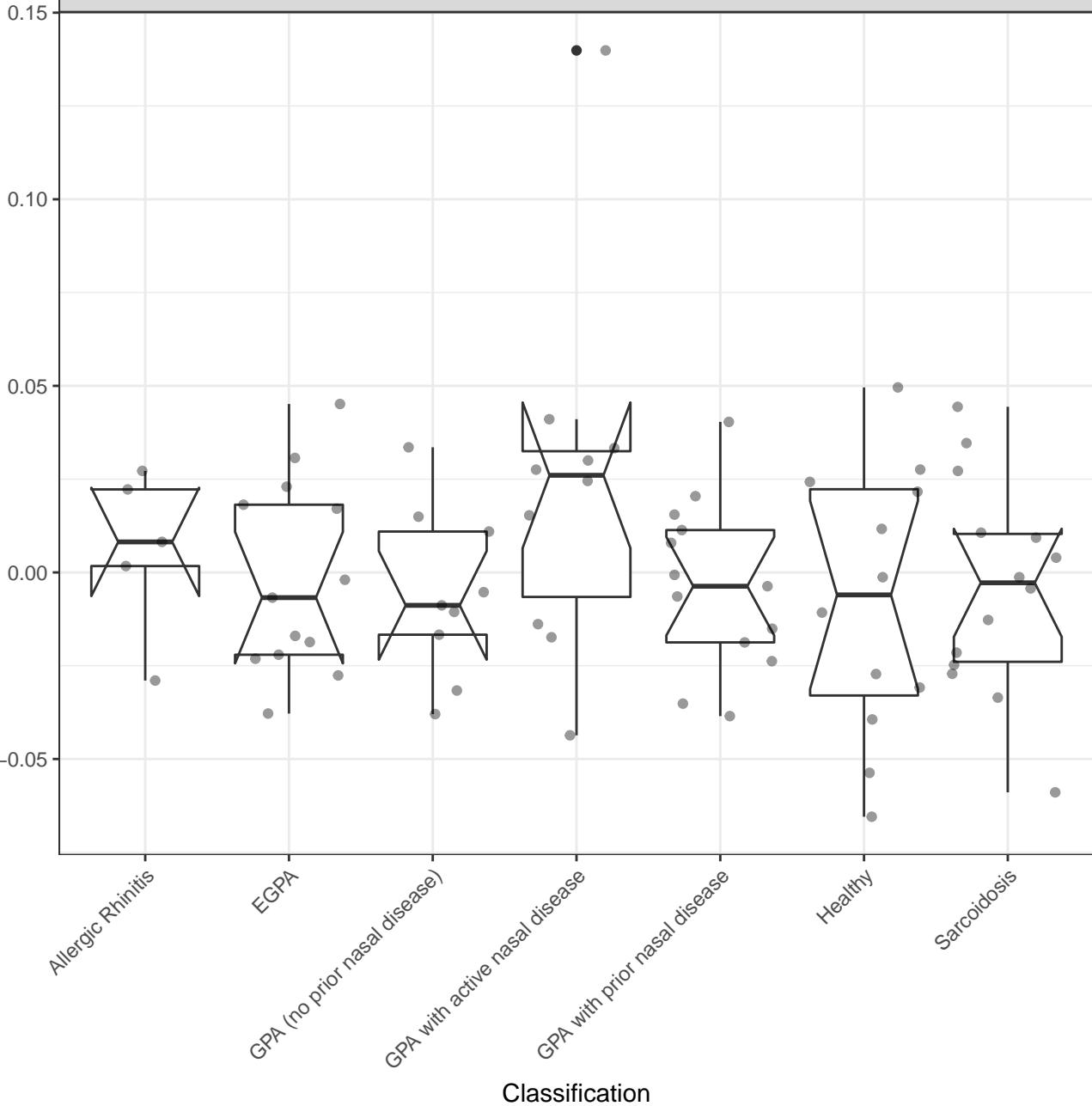
Healthy

Sarcoidosis

Classification

LV 754

Value



Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

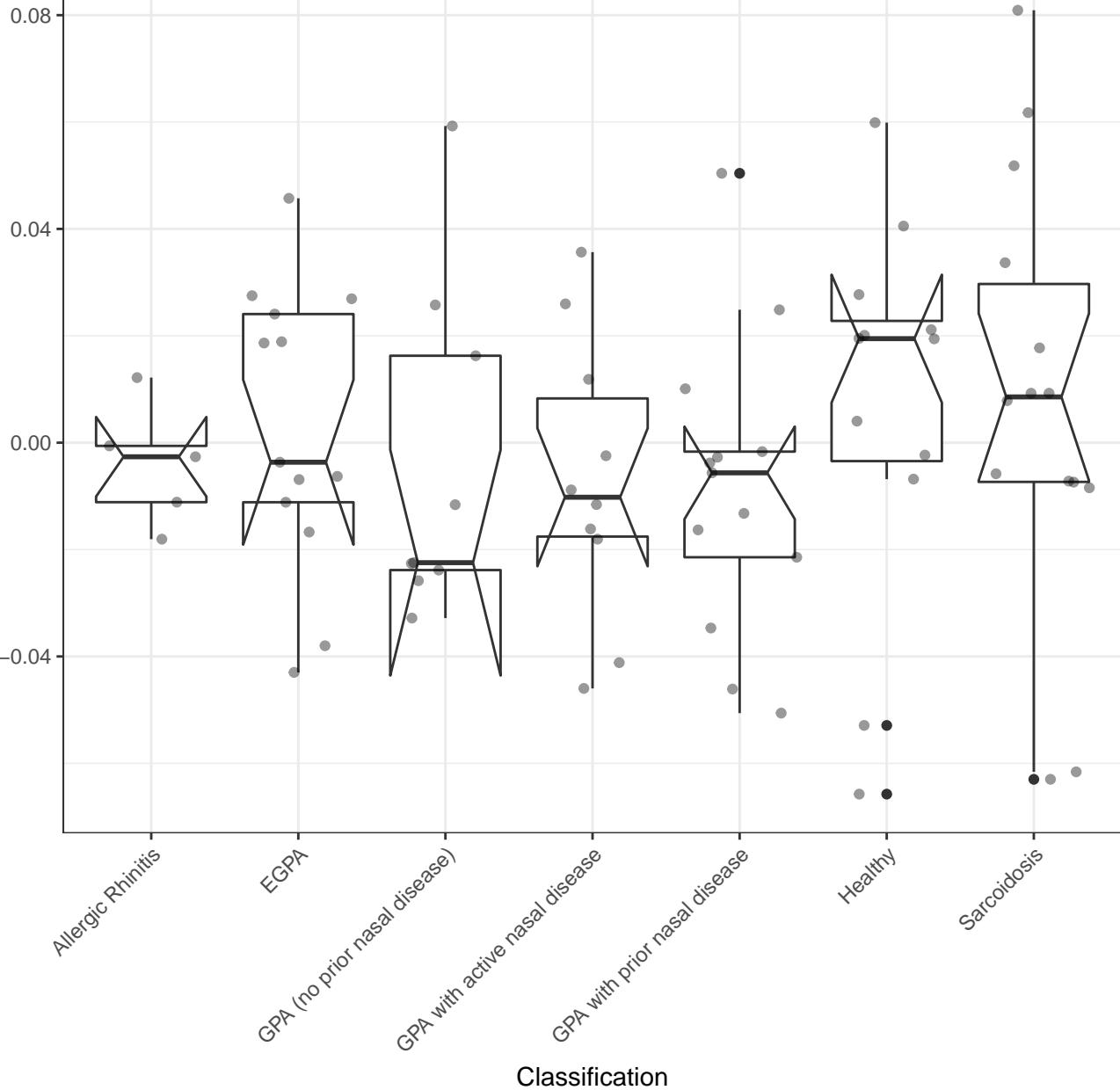
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

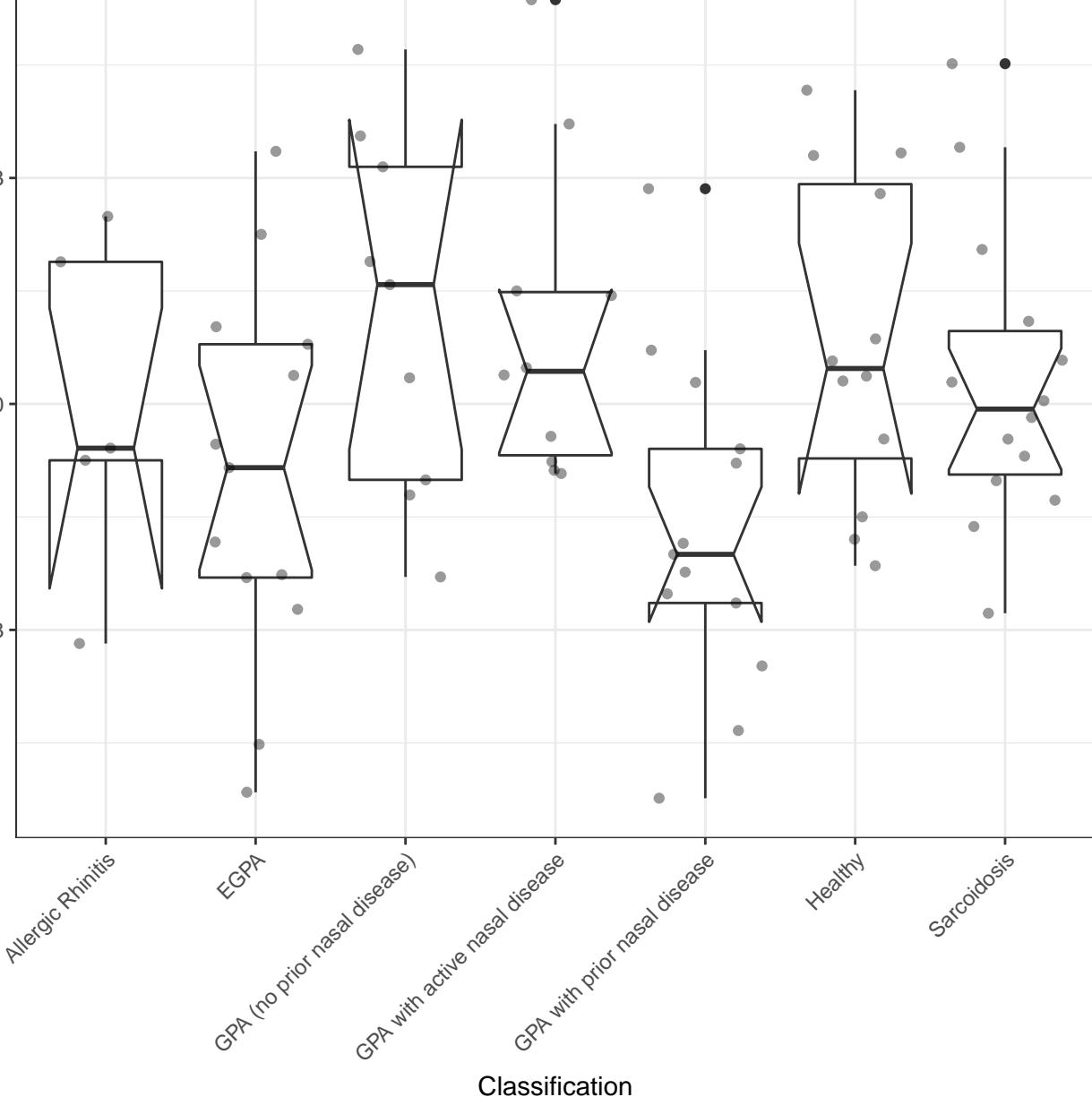
GPA with prior nasal disease

Healthy

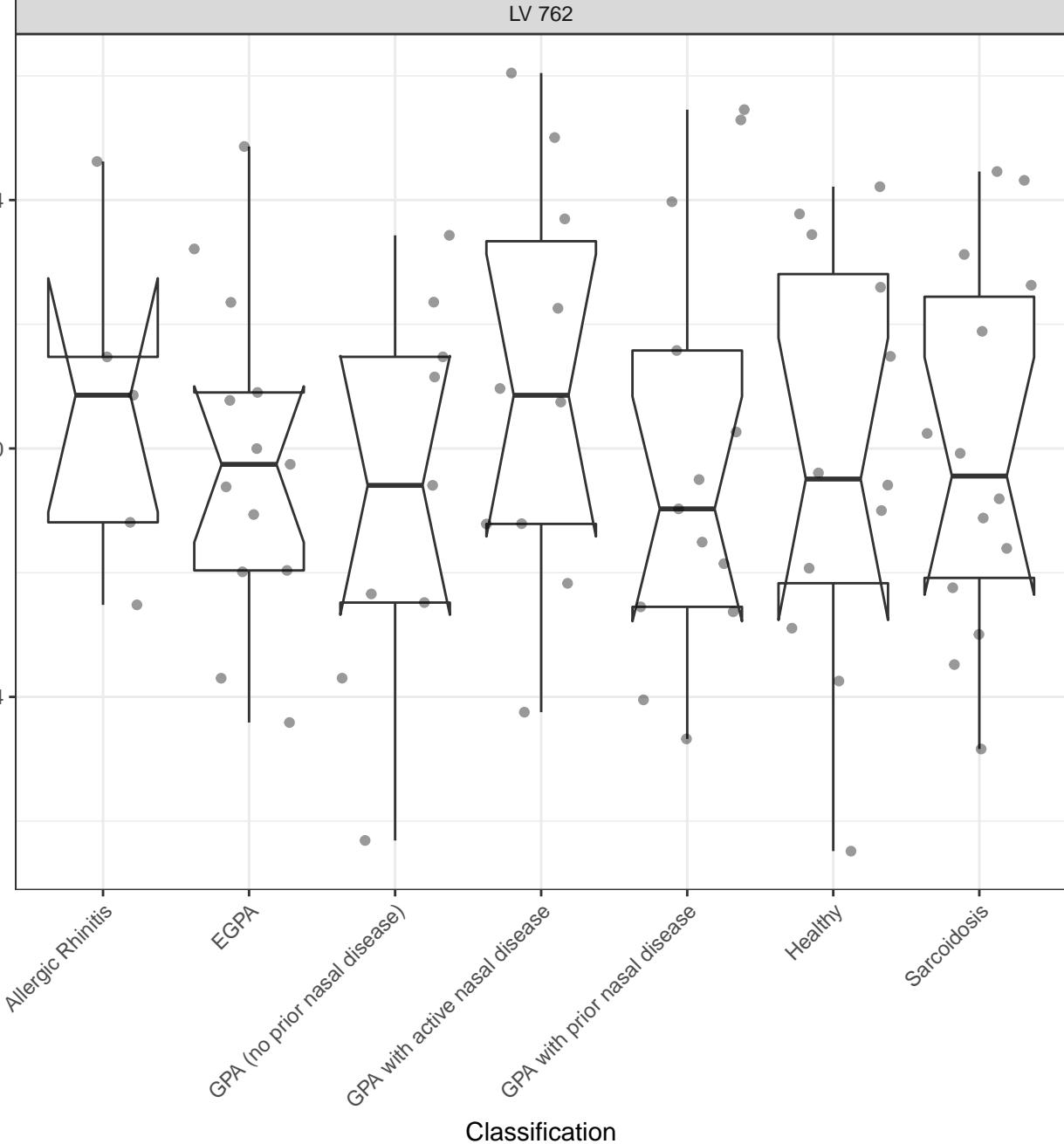
Sarcoidosis

Classification

Value



Value



Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

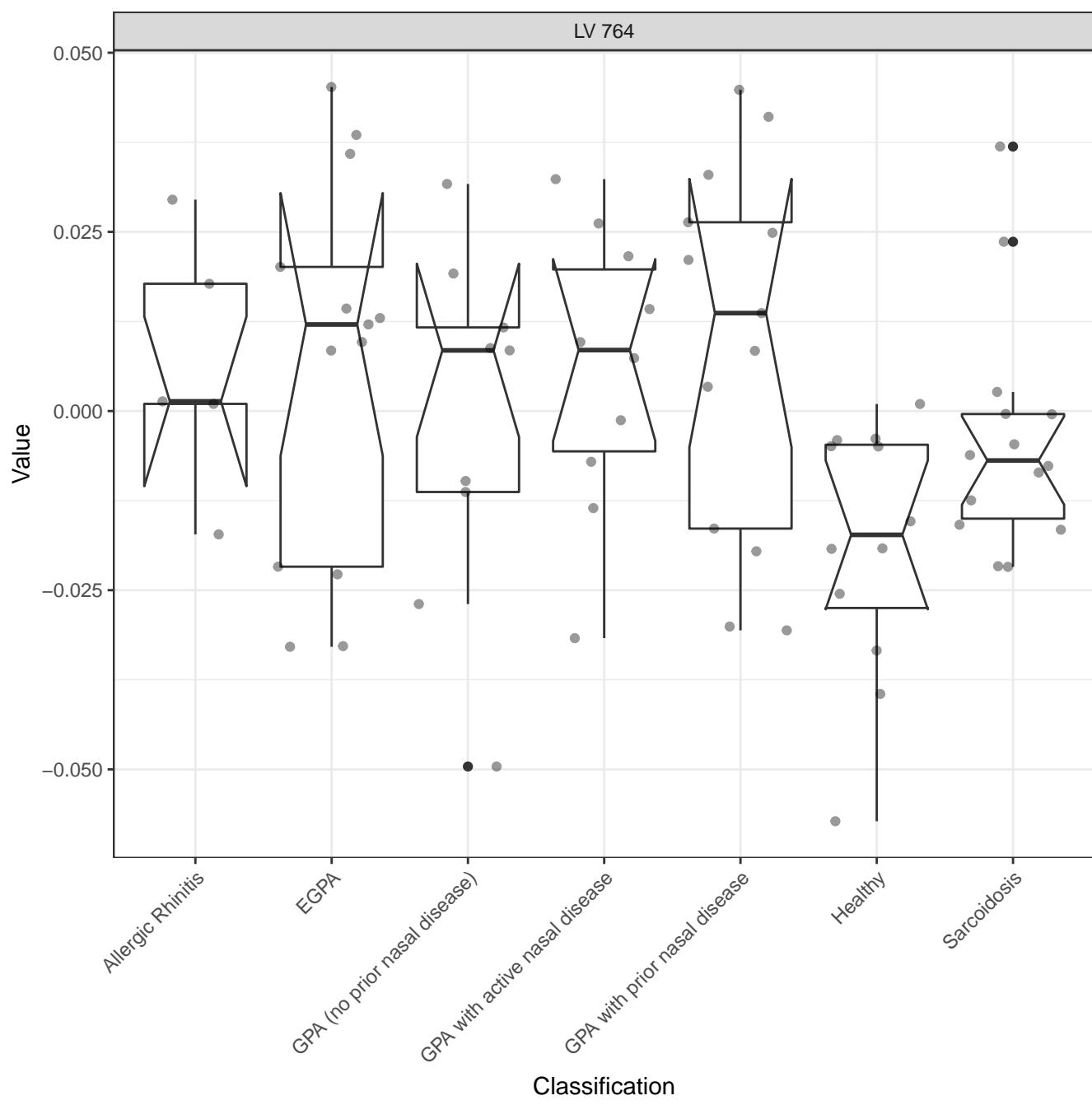
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 764



## 765,SVM NK cells resting

Value

0.3

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 766,KEGG\_DILATED\_CARDIOMYOPATHY

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 767,SVM B cells naive

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

0.00

-0.03

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

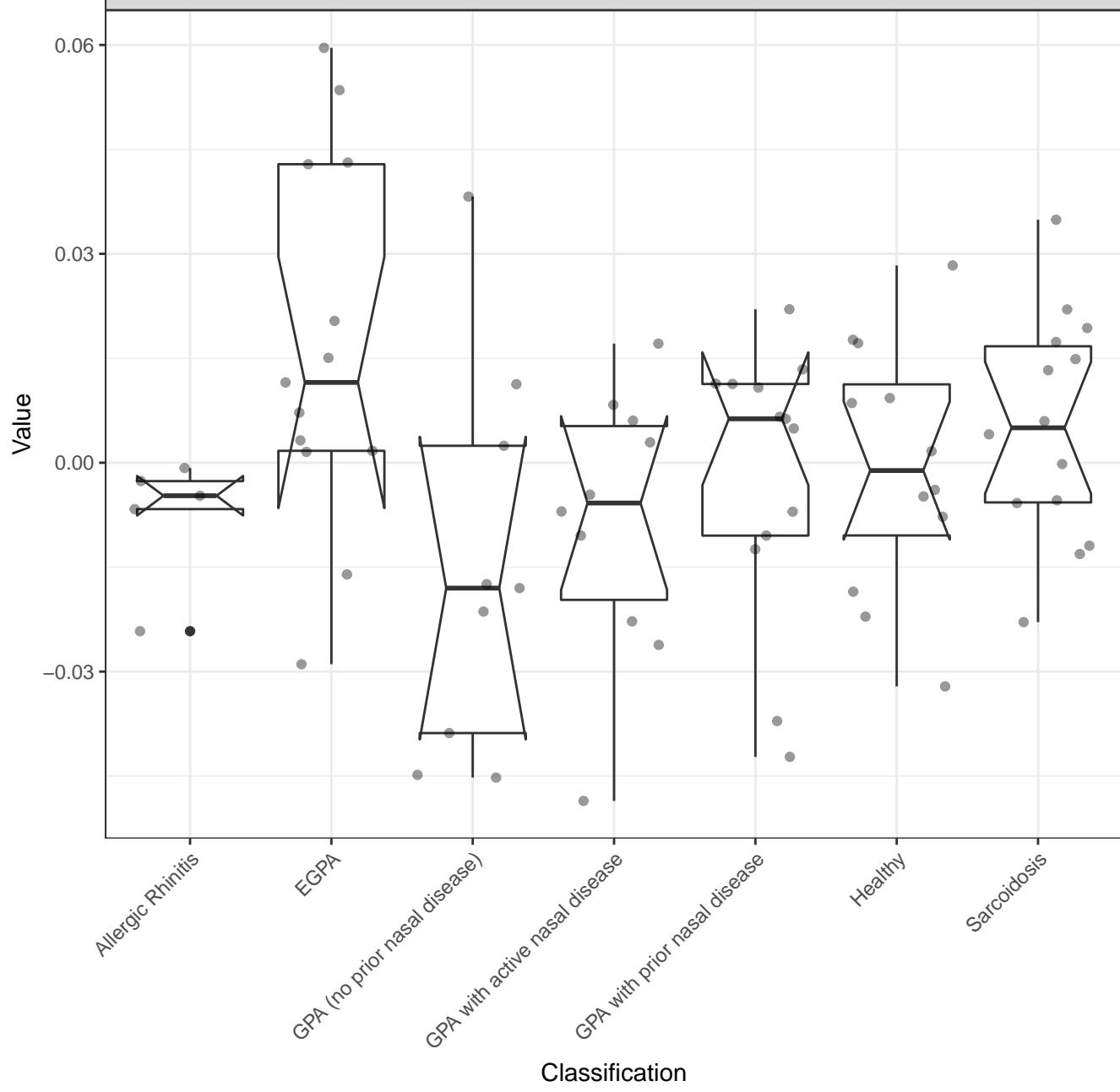
GPA with active nasal disease

GPA with prior nasal disease

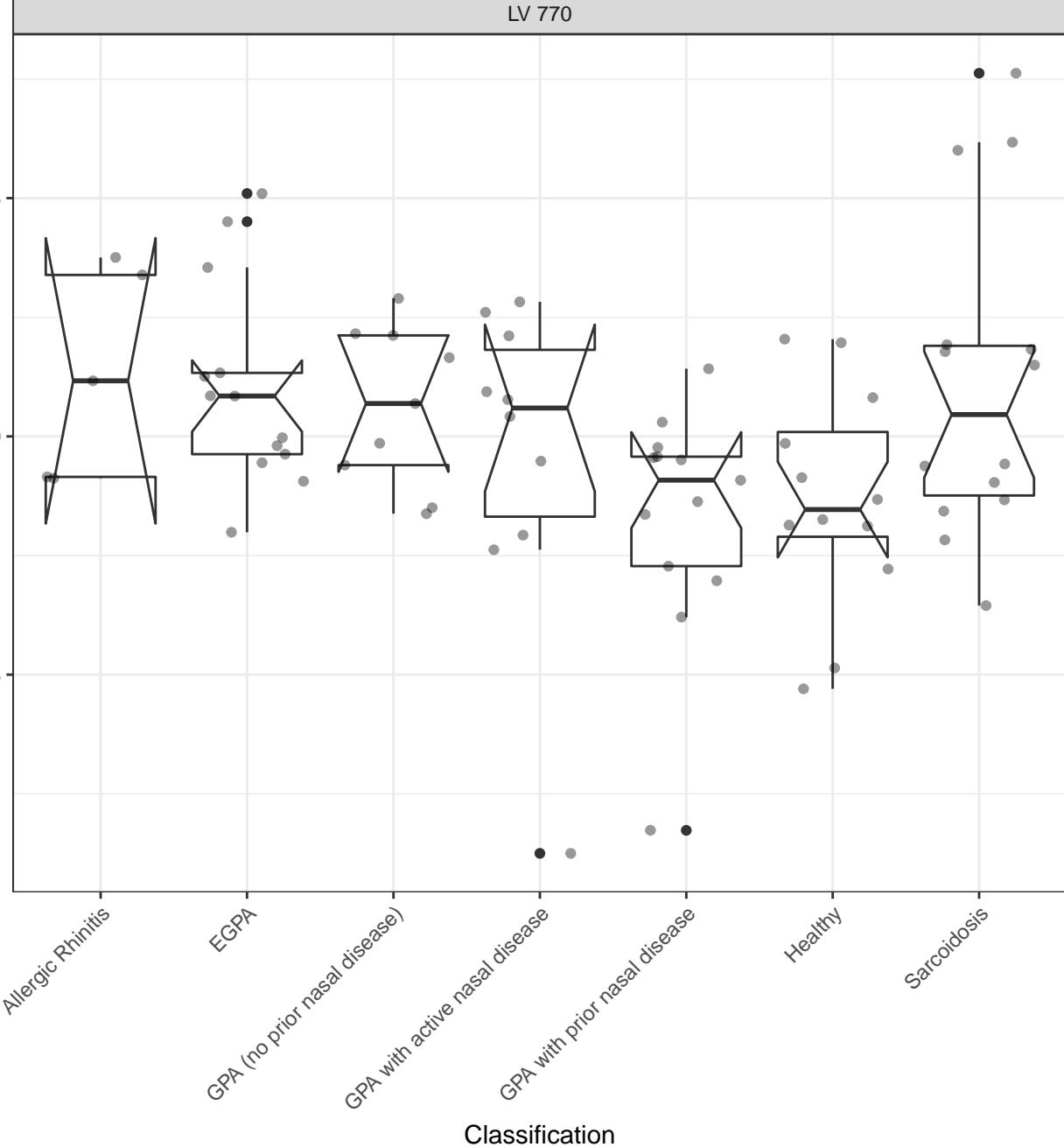
Healthy

Sarcoidosis

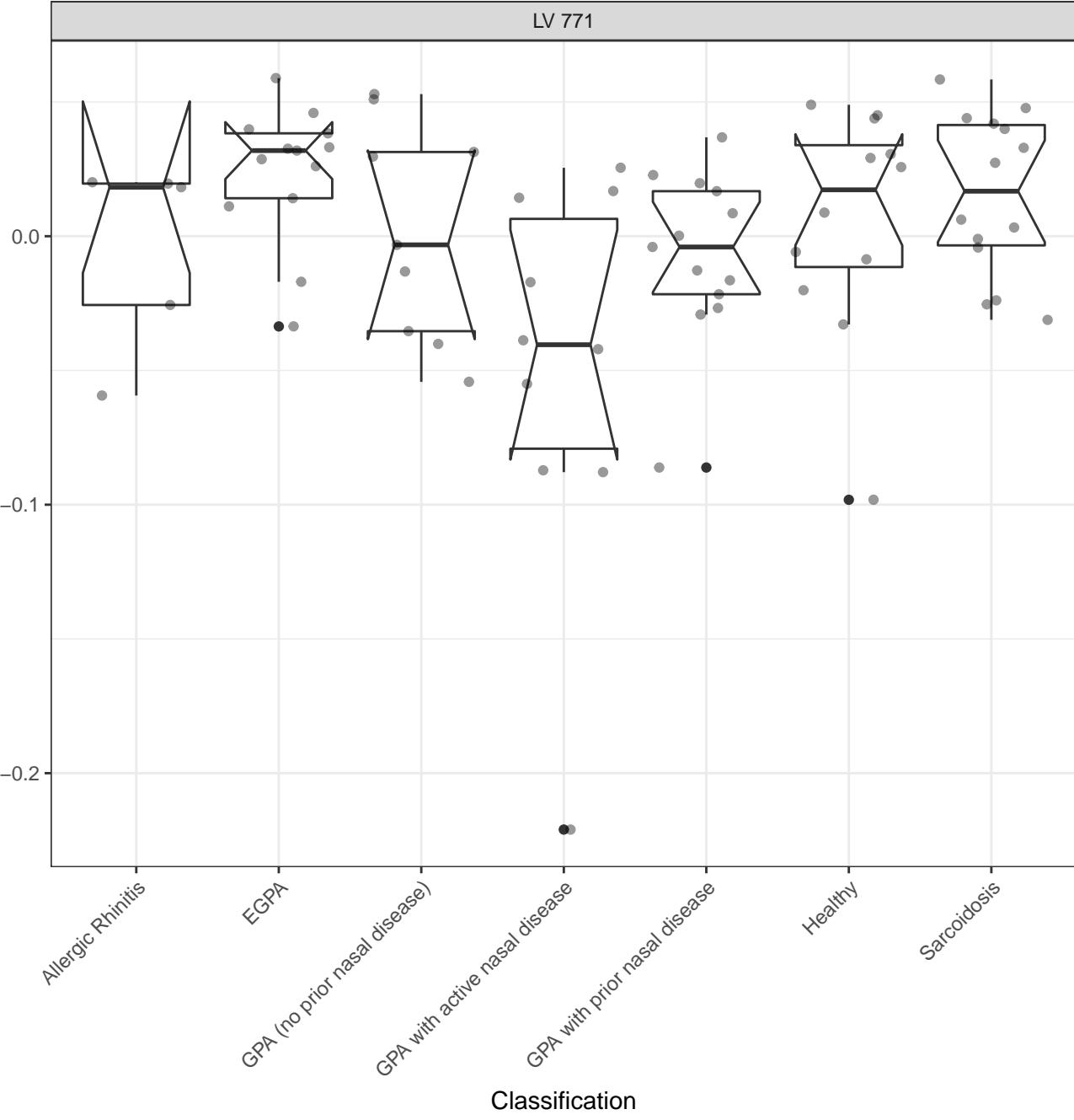
Classification



Value



Value



LV 772

Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

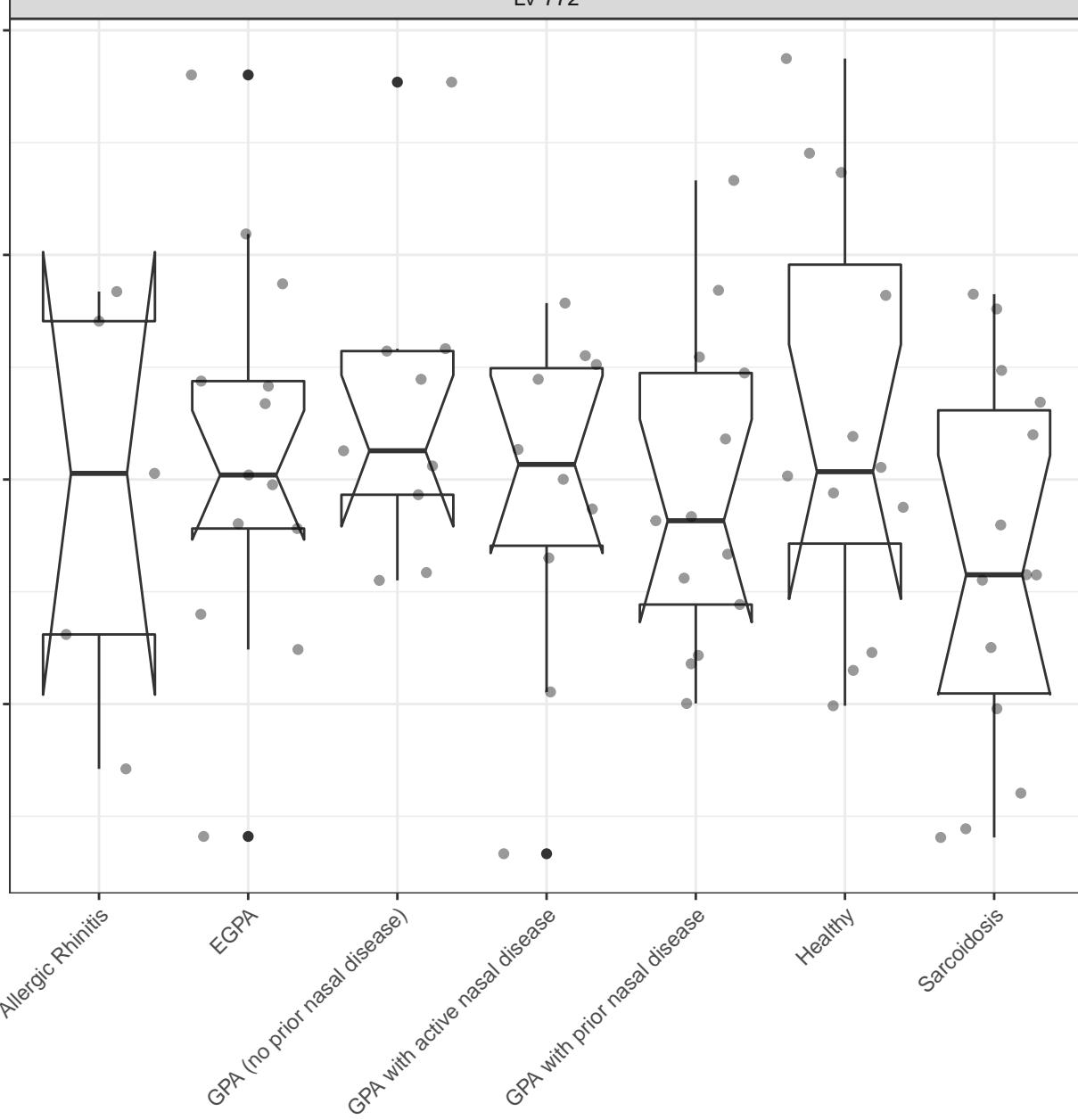
GPA with active nasal disease

GPA with prior nasal disease

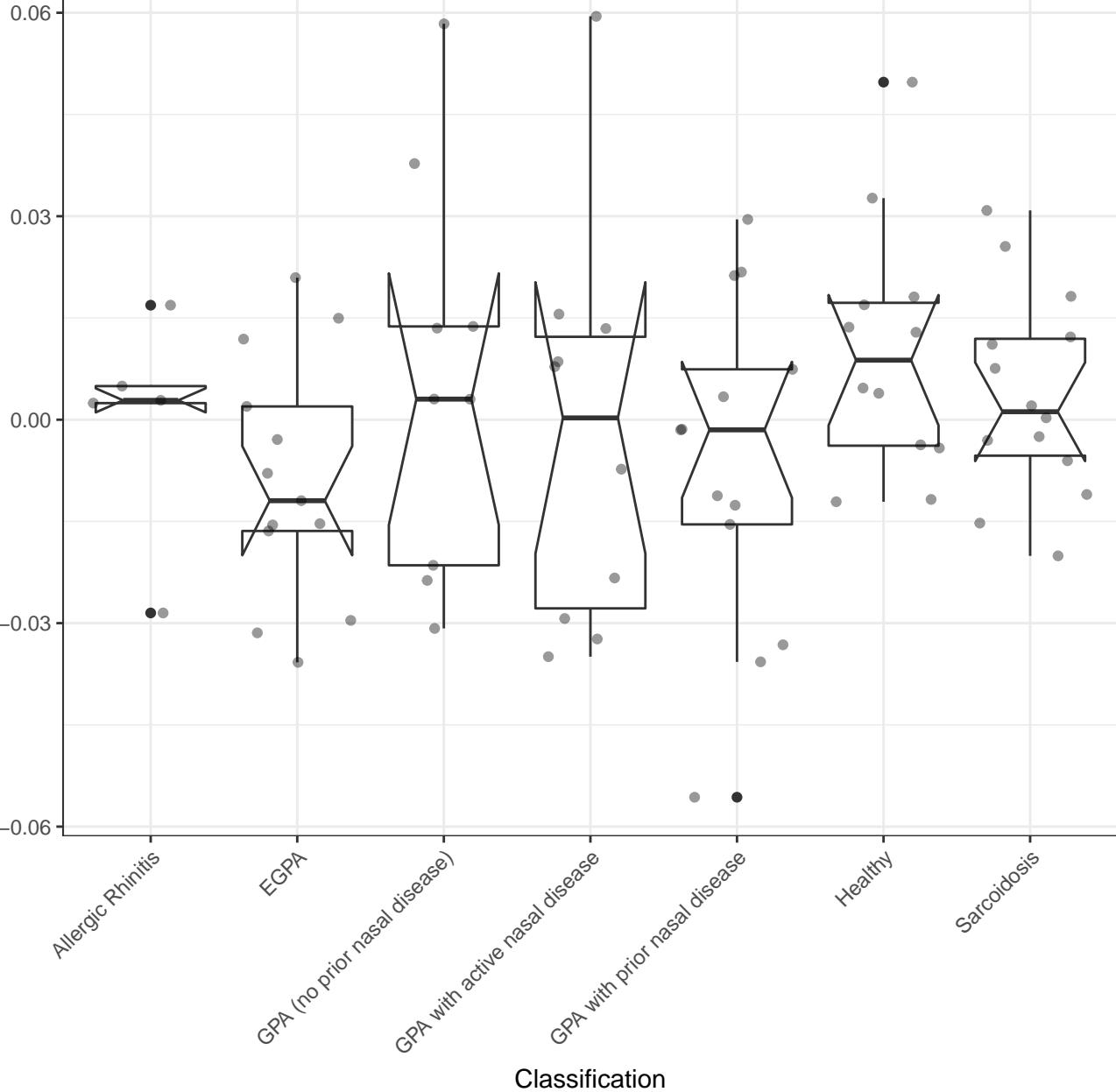
Healthy

Sarcoidosis

Classification



Value



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.02

0.00

-0.02

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 777,PID\_P53DOWNSTREAMPATHWAY

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

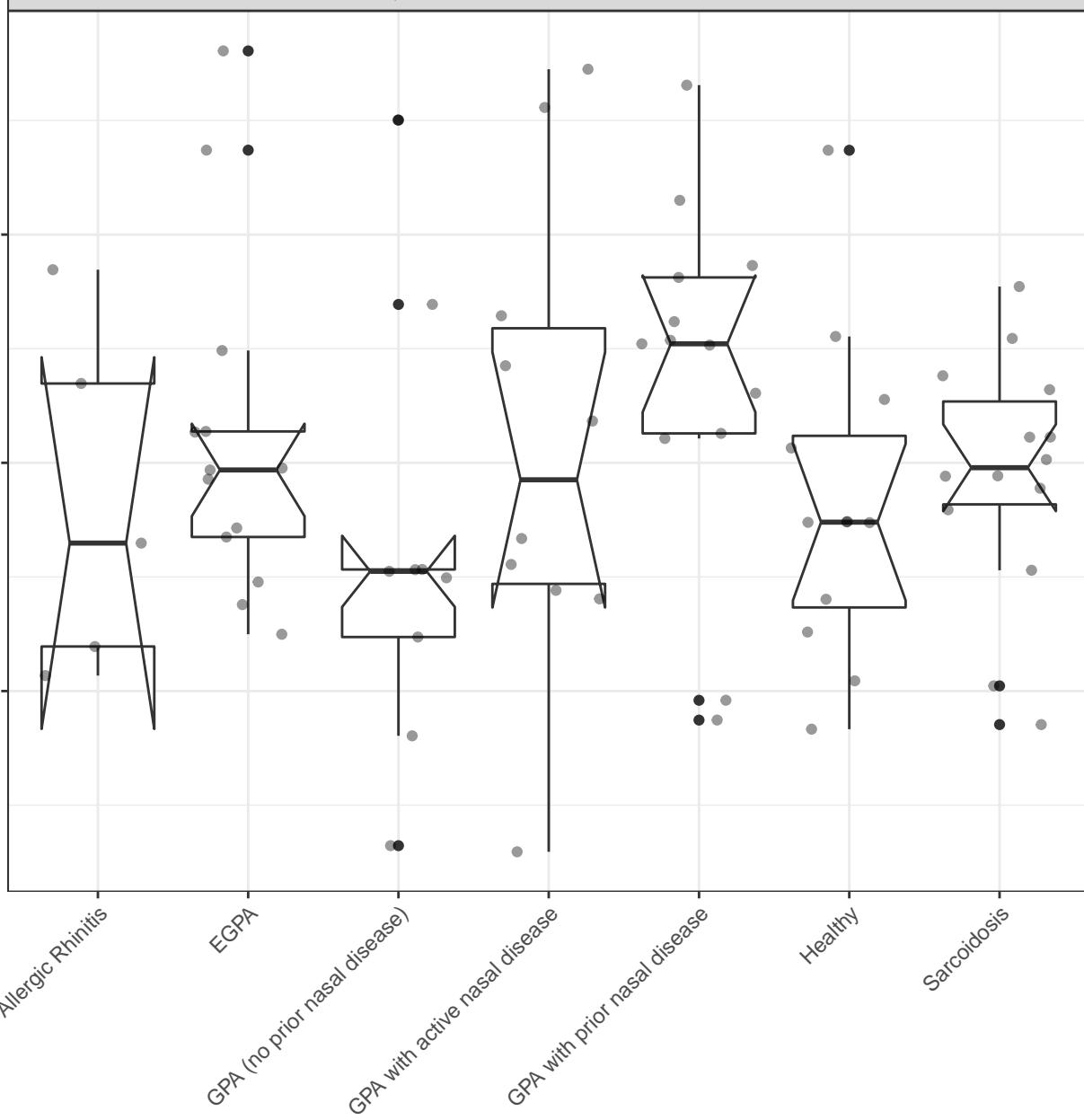
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

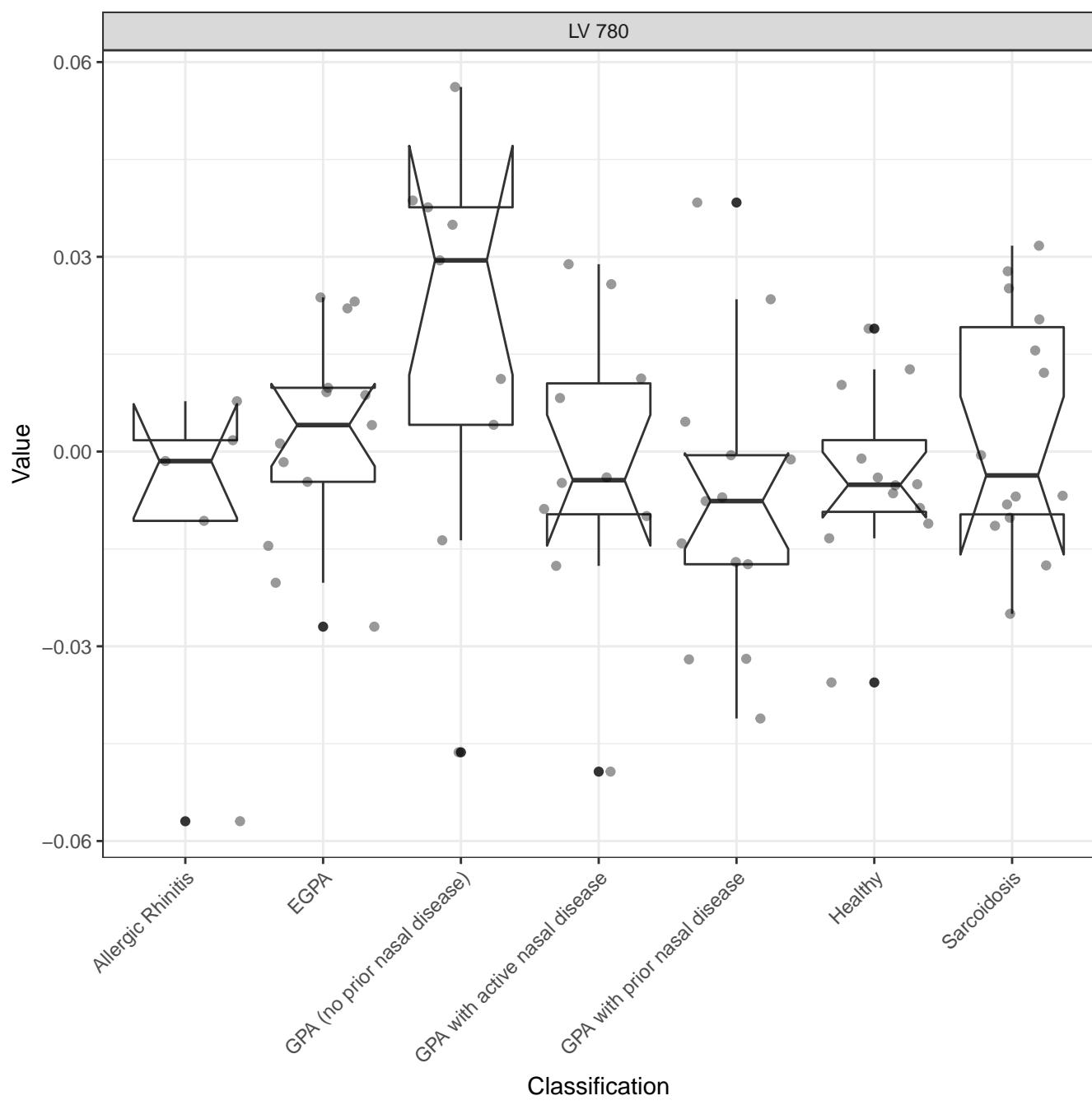
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 782

Value

0.050

0.025

0.000

-0.025

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

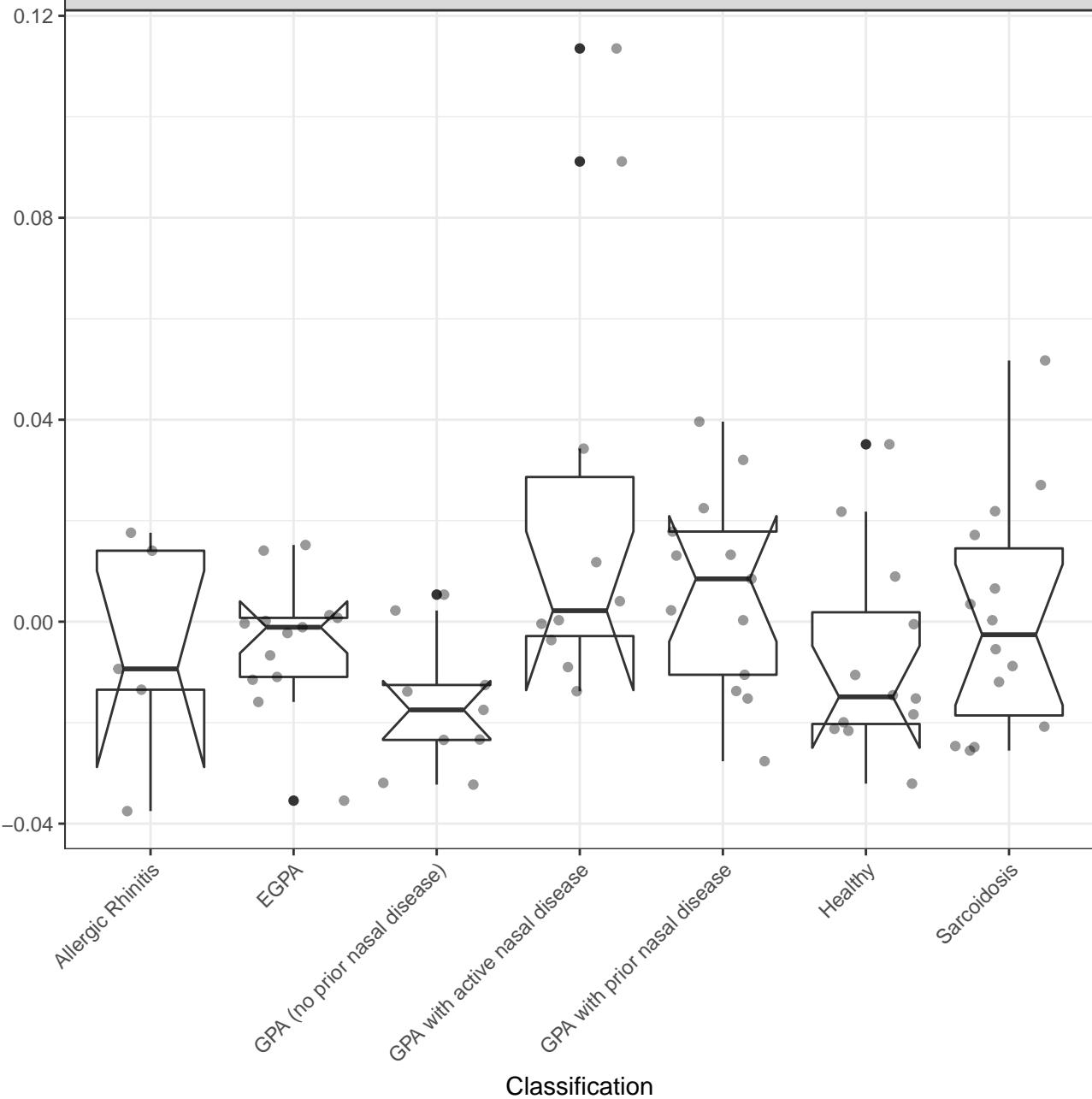
Healthy

Sarcoidosis

Classification

LV 783

Value



Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.050

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

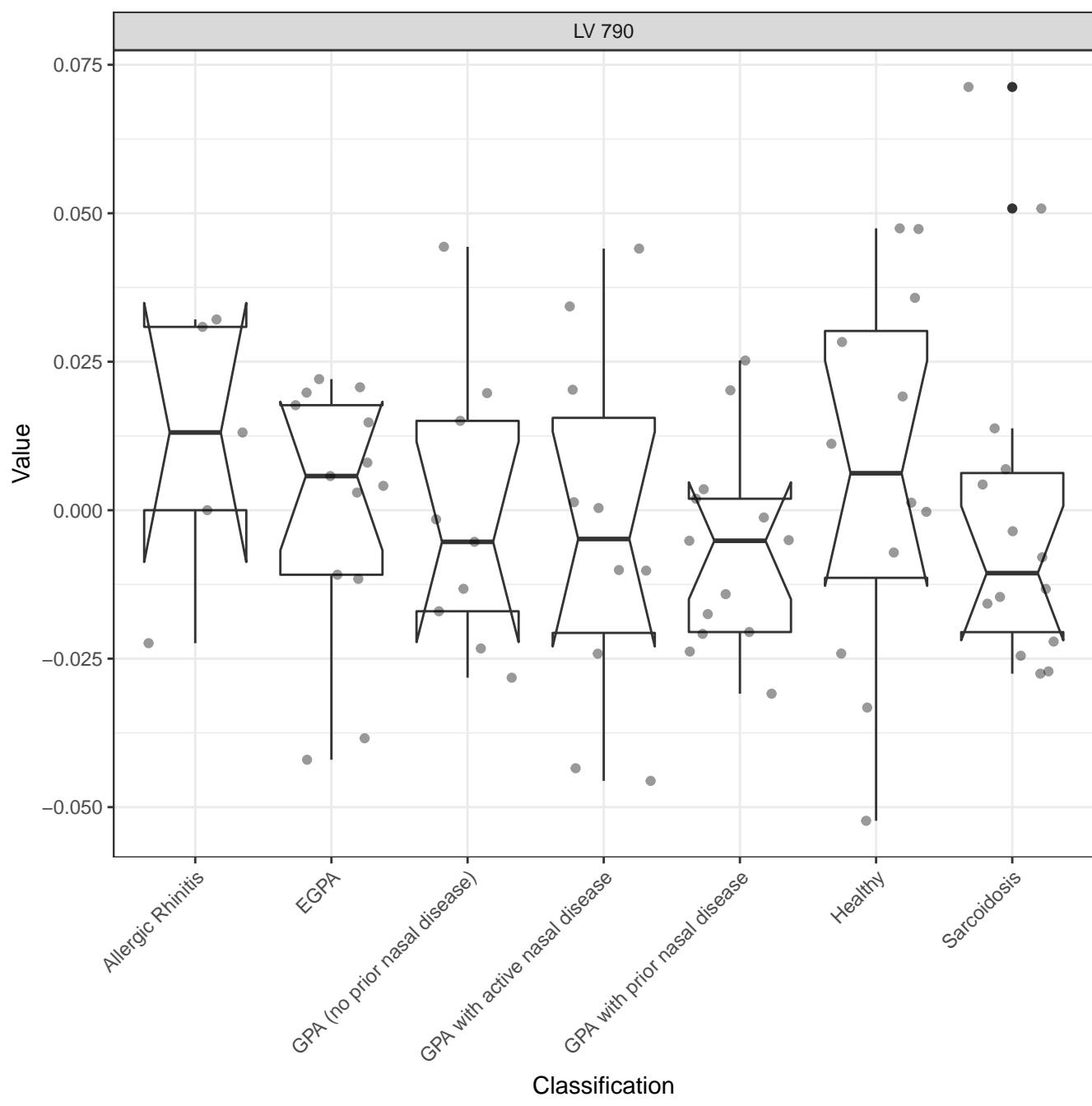
GPA with prior nasal disease

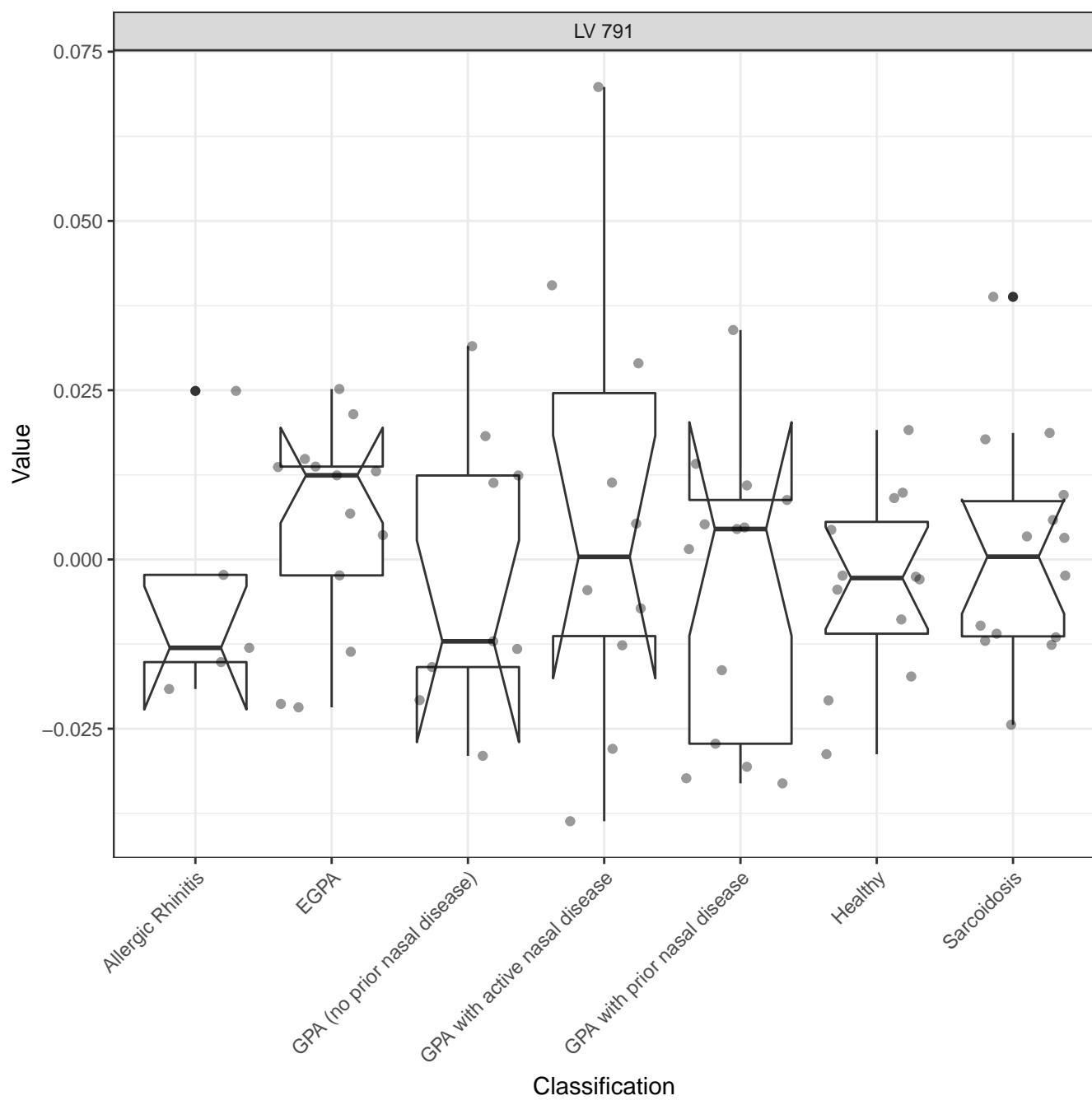
Healthy

Sarcoidosis

Classification

LV 790





Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

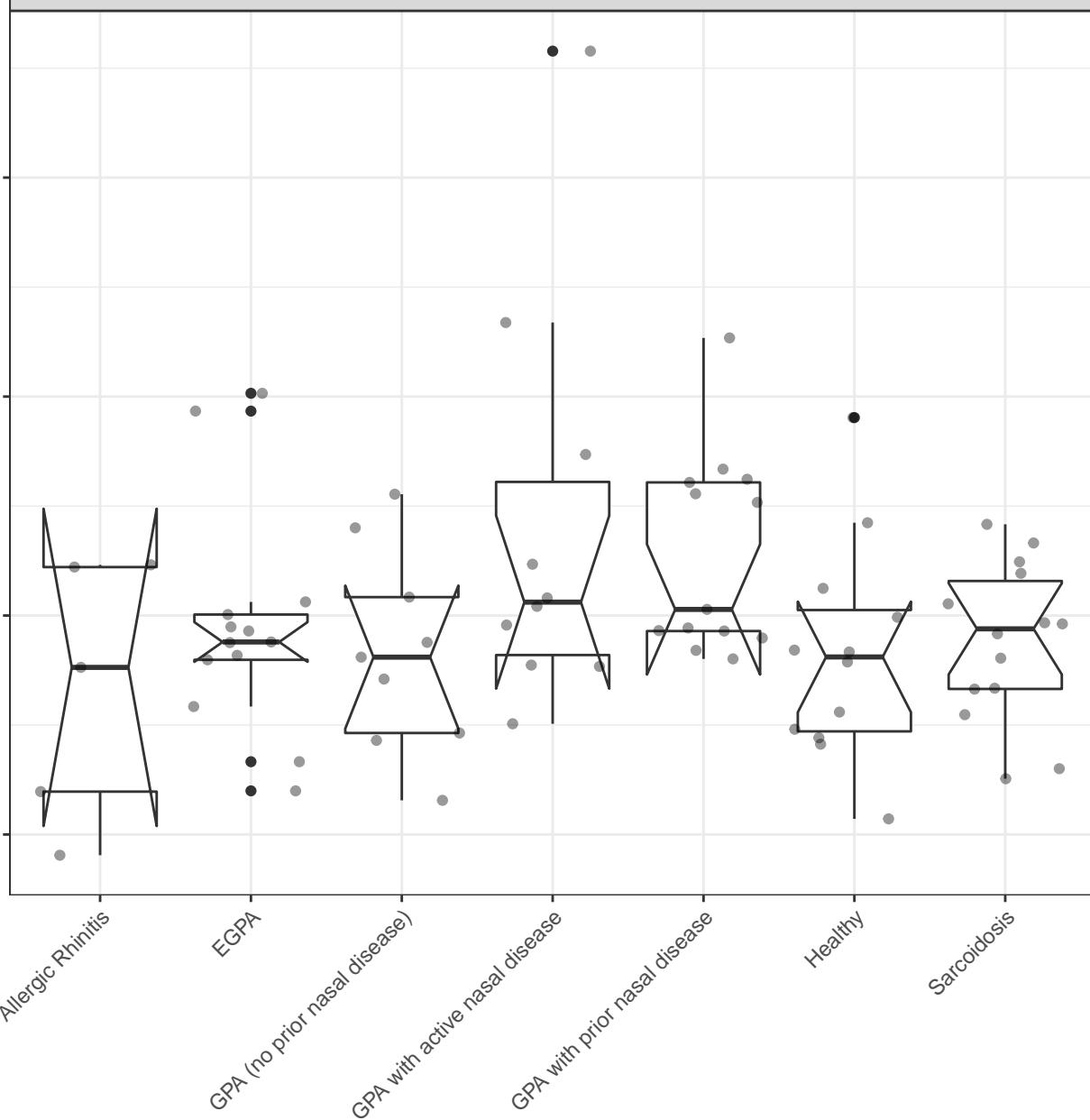
GPA with active nasal disease

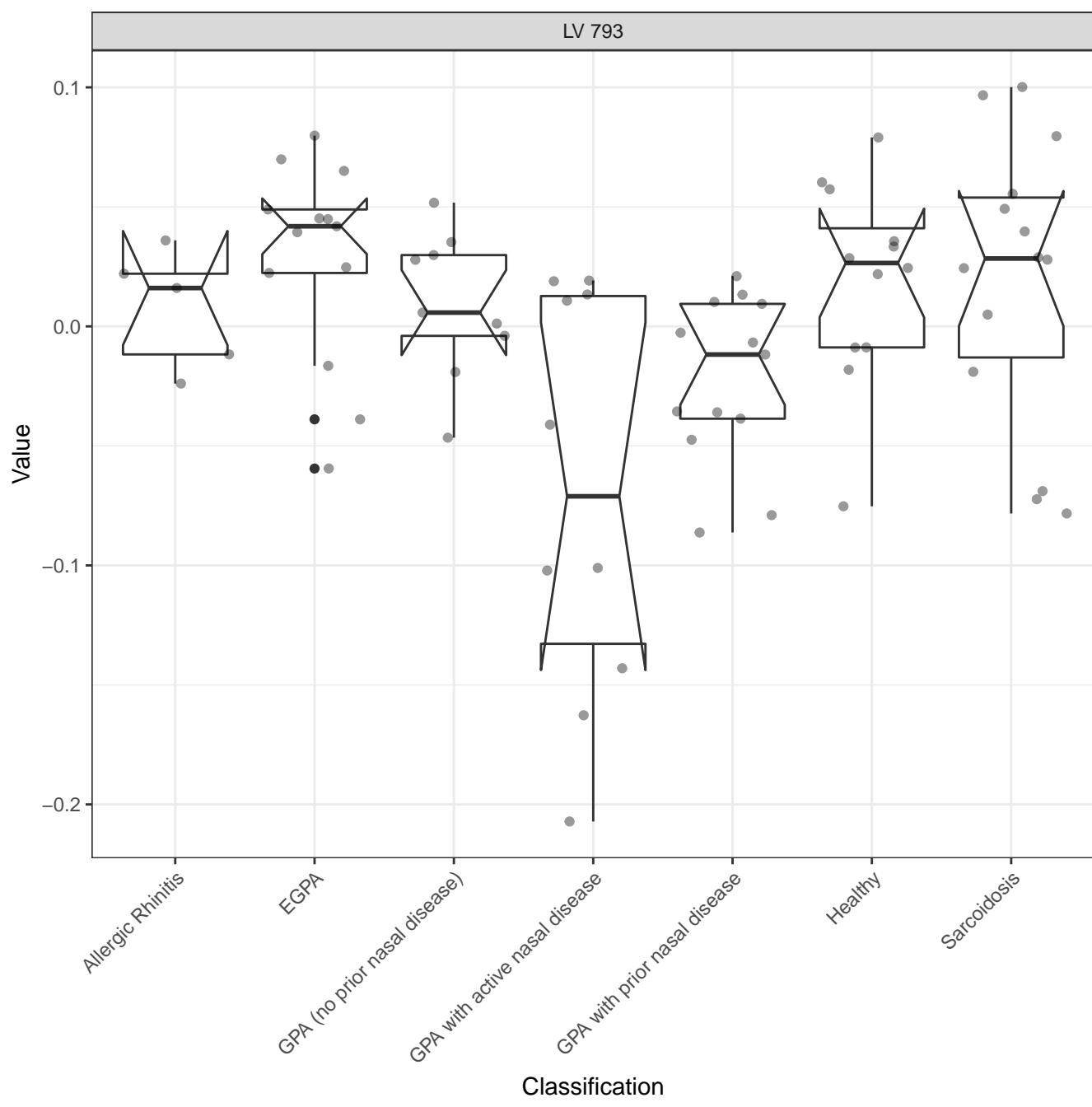
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.10

0.05

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

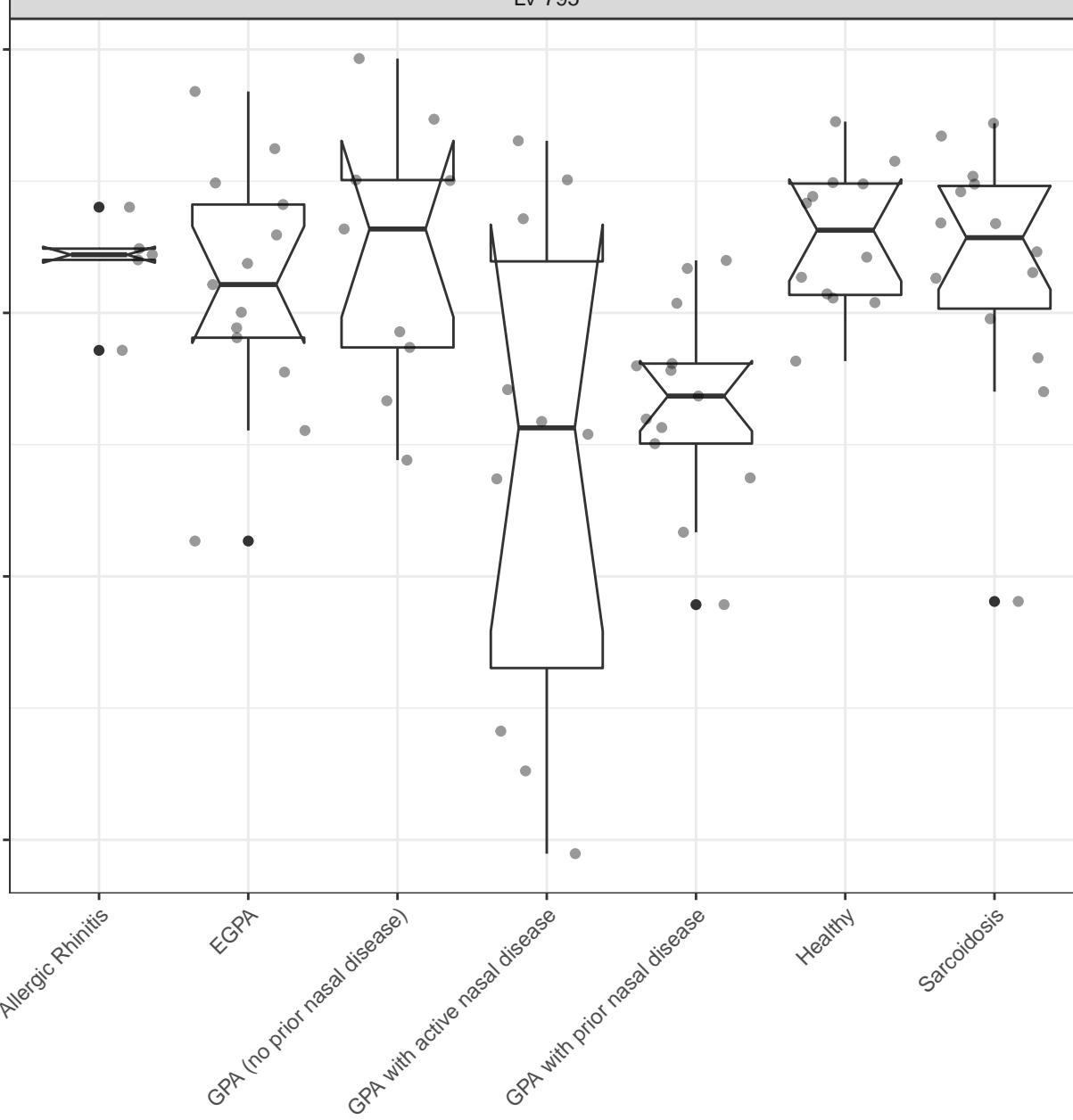
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



LV 796

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

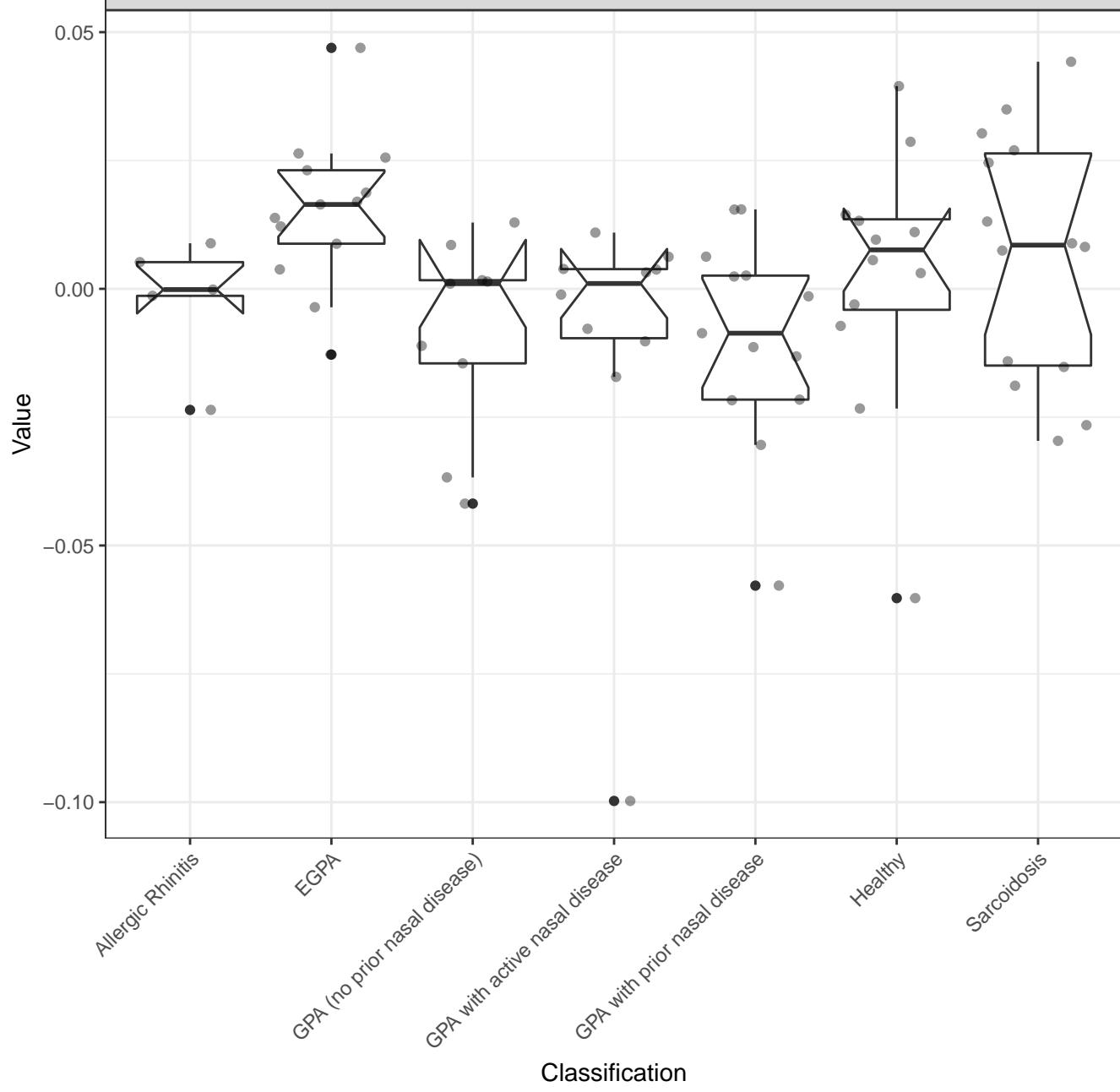
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05  
0.00  
-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

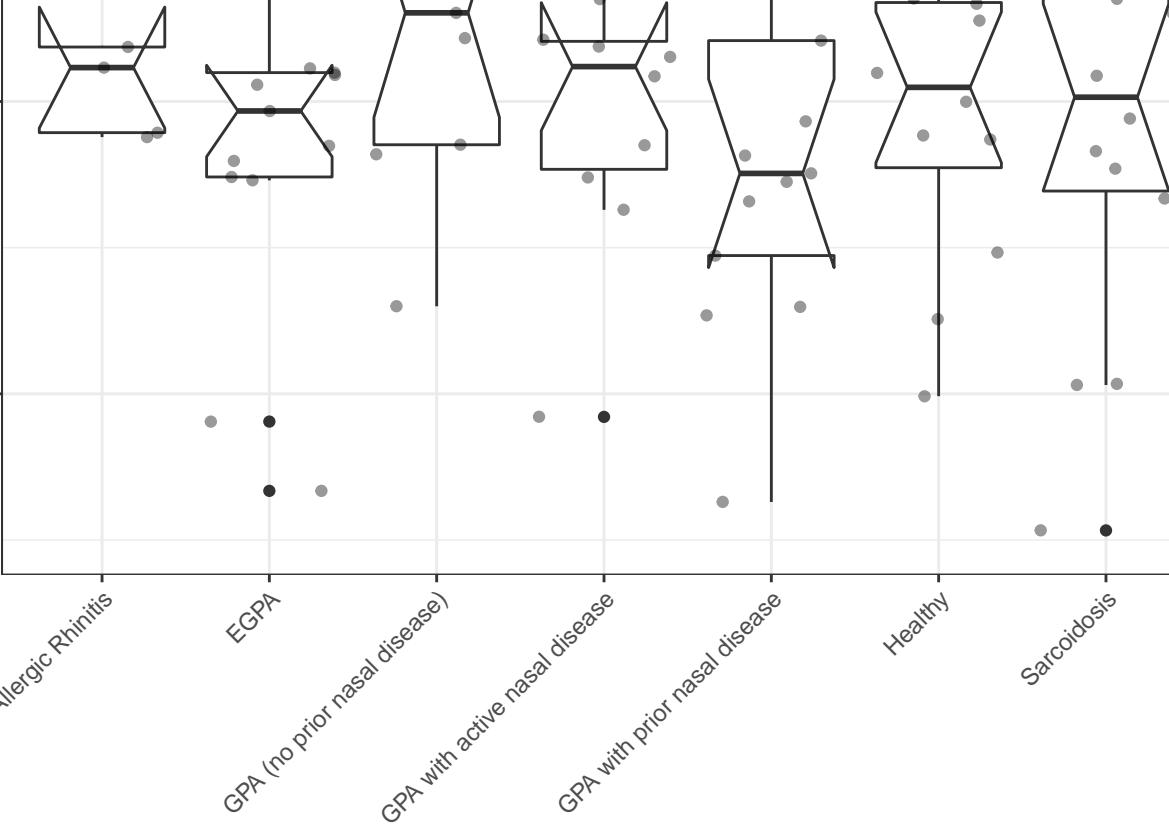
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



## 800,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

0.2

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

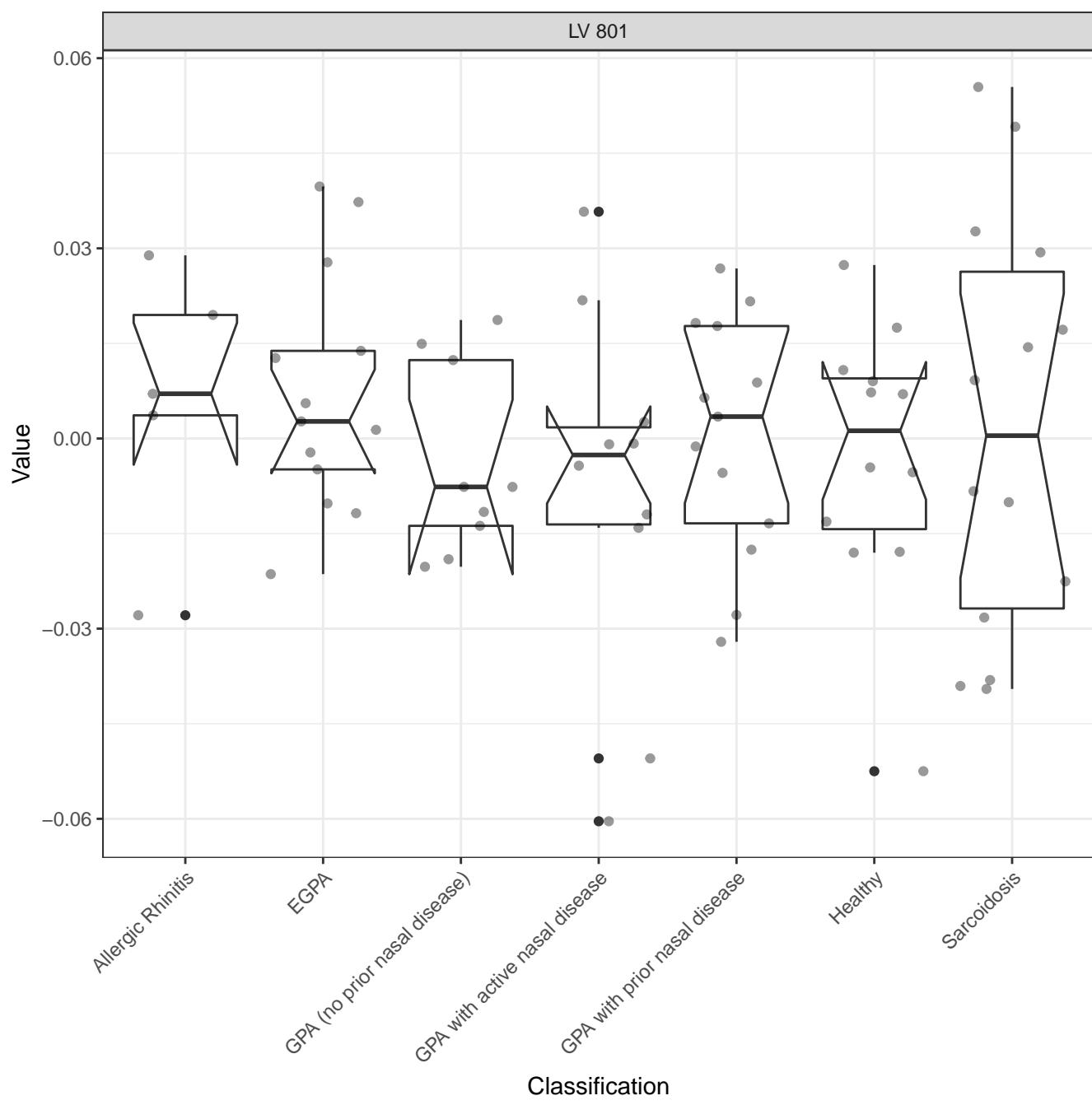
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

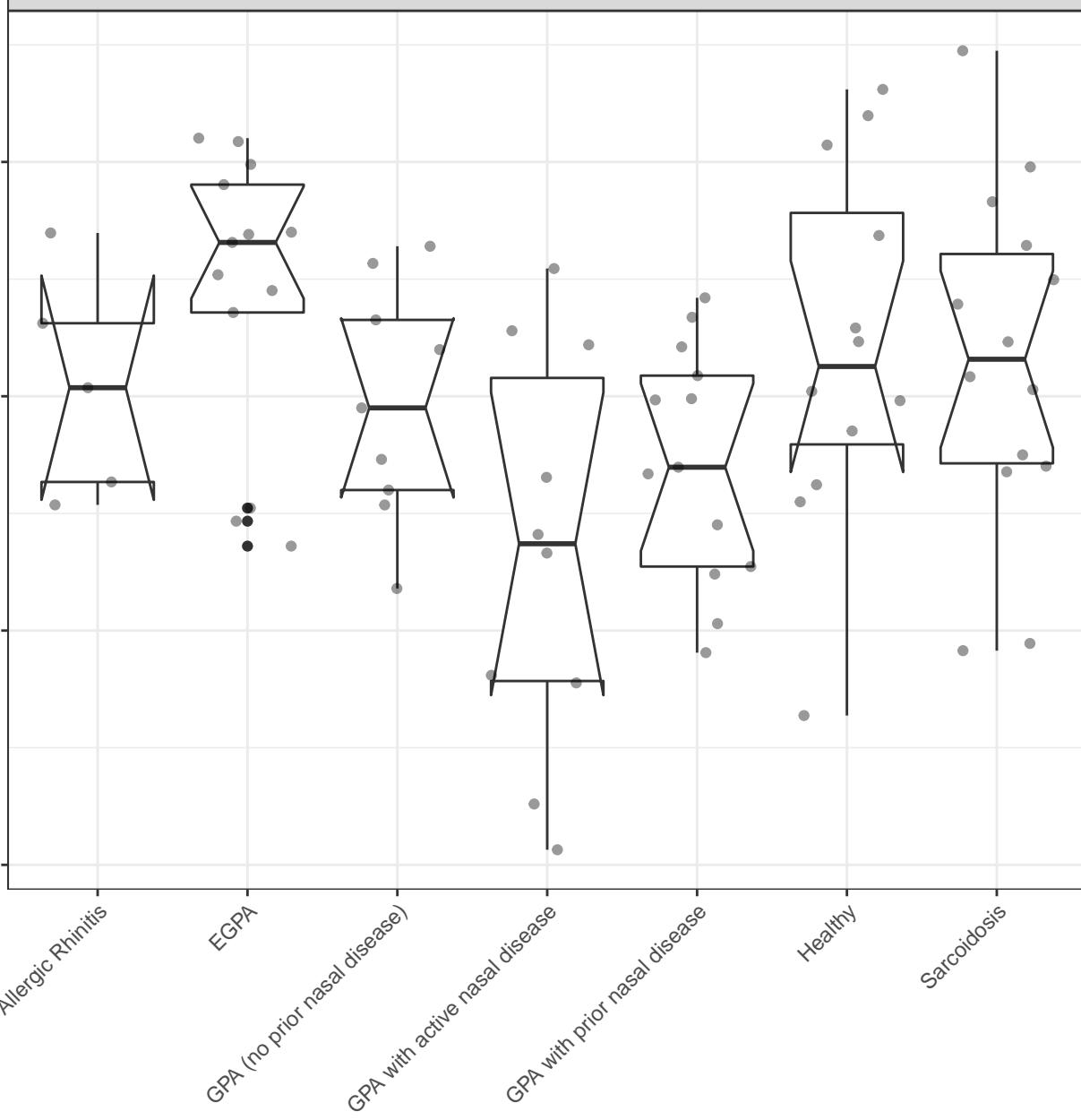
GPA with active nasal disease

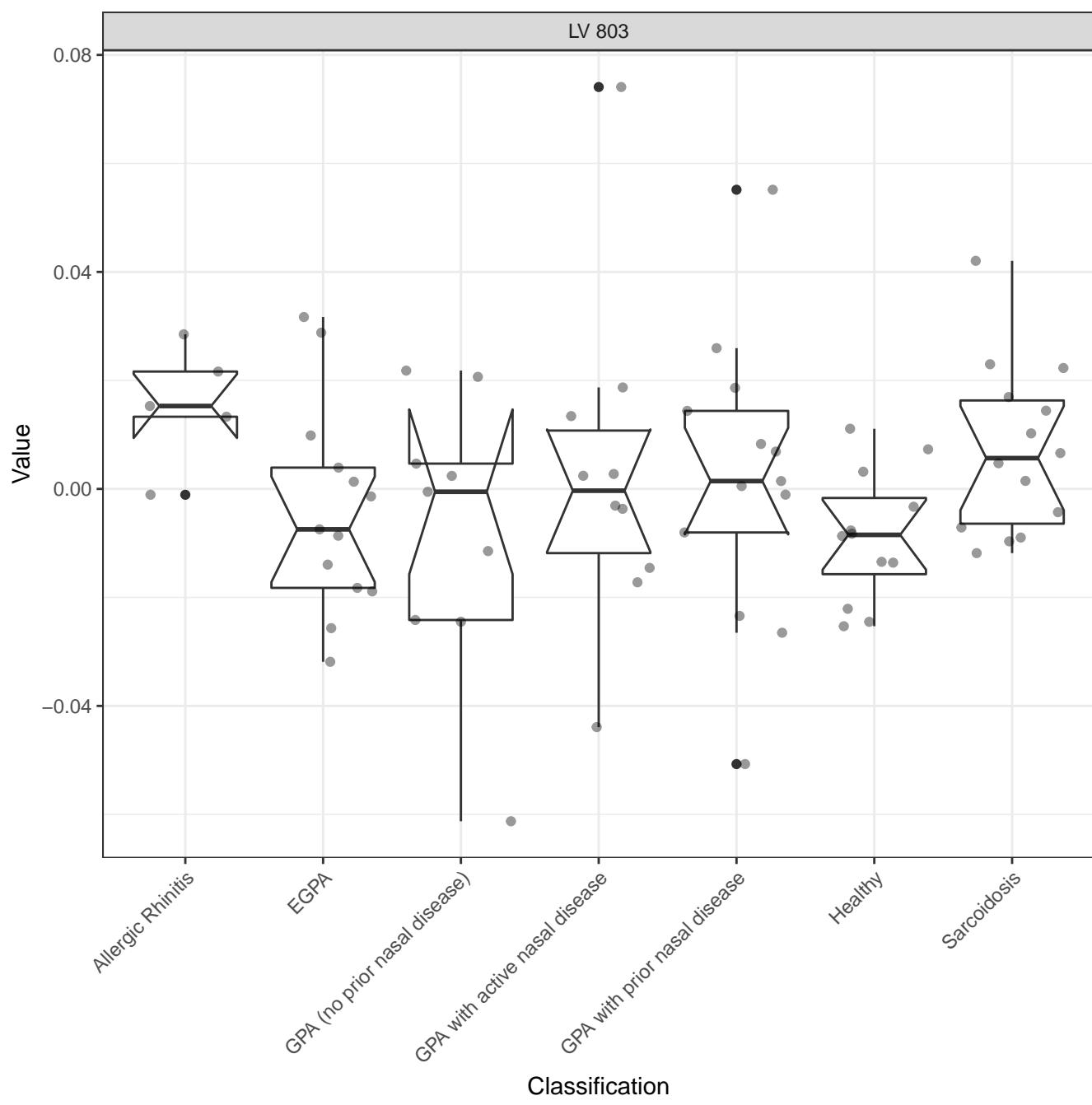
GPA with prior nasal disease

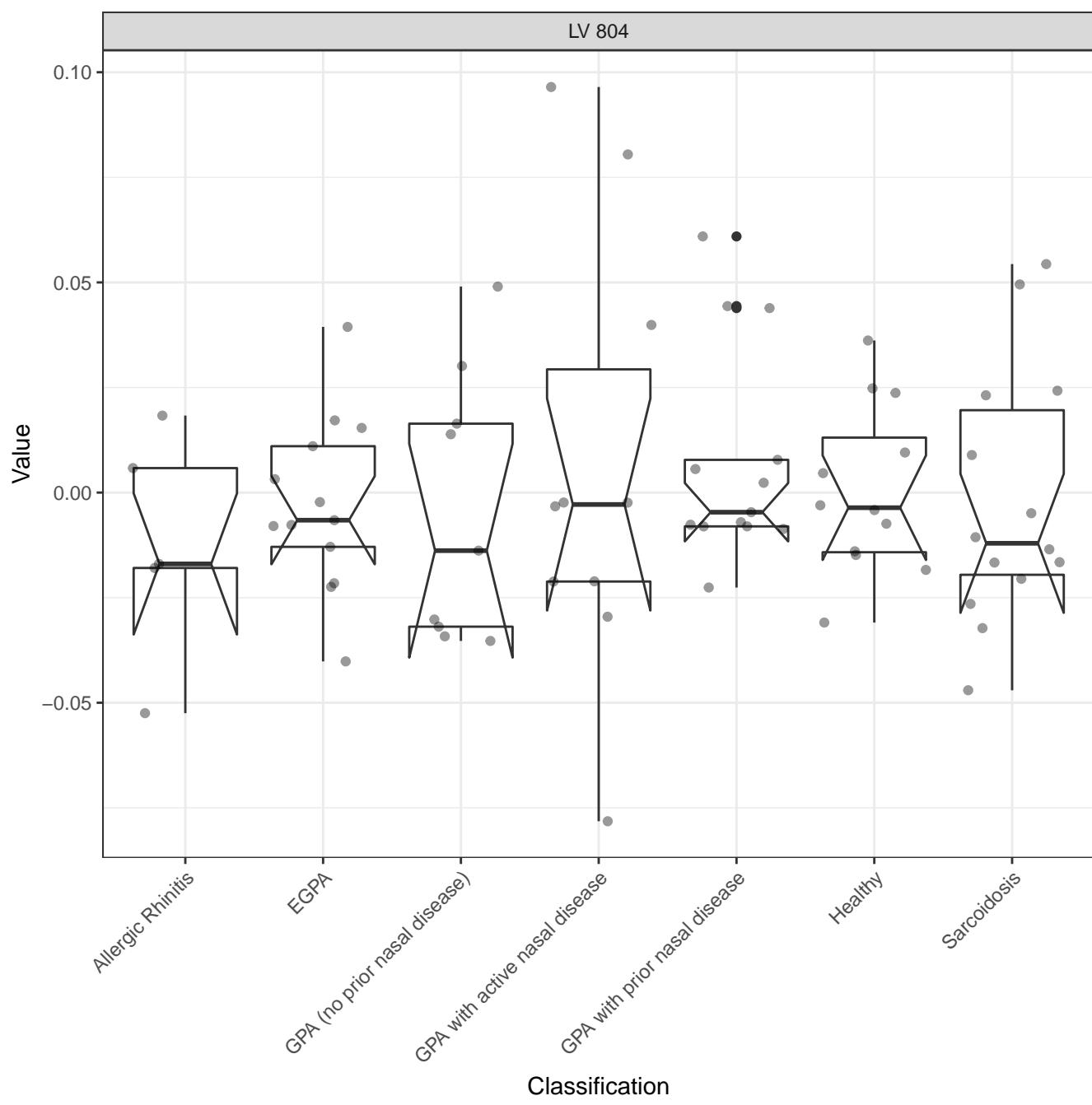
Healthy

Sarcoidosis

Classification







Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

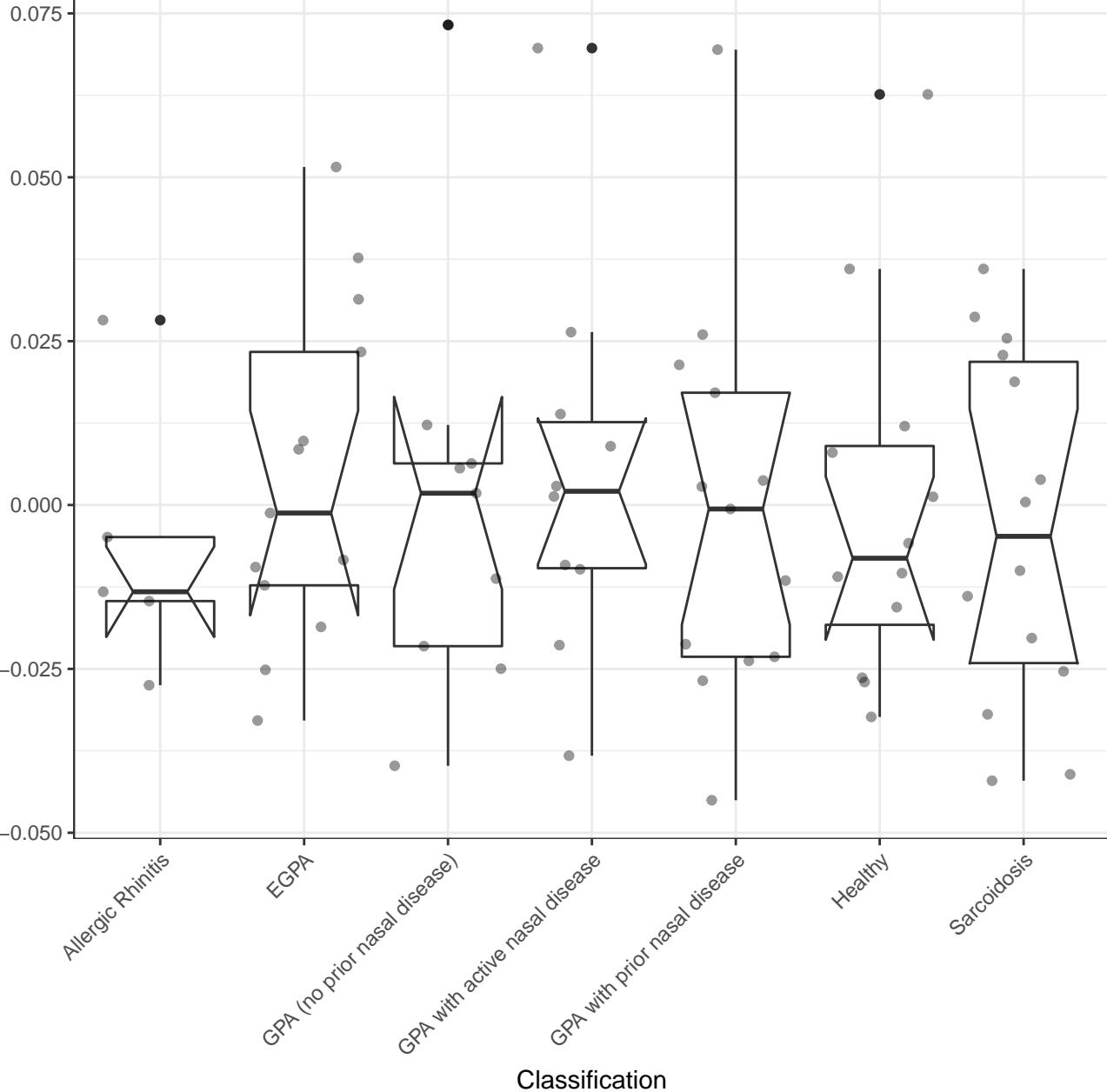
GPA with prior nasal disease

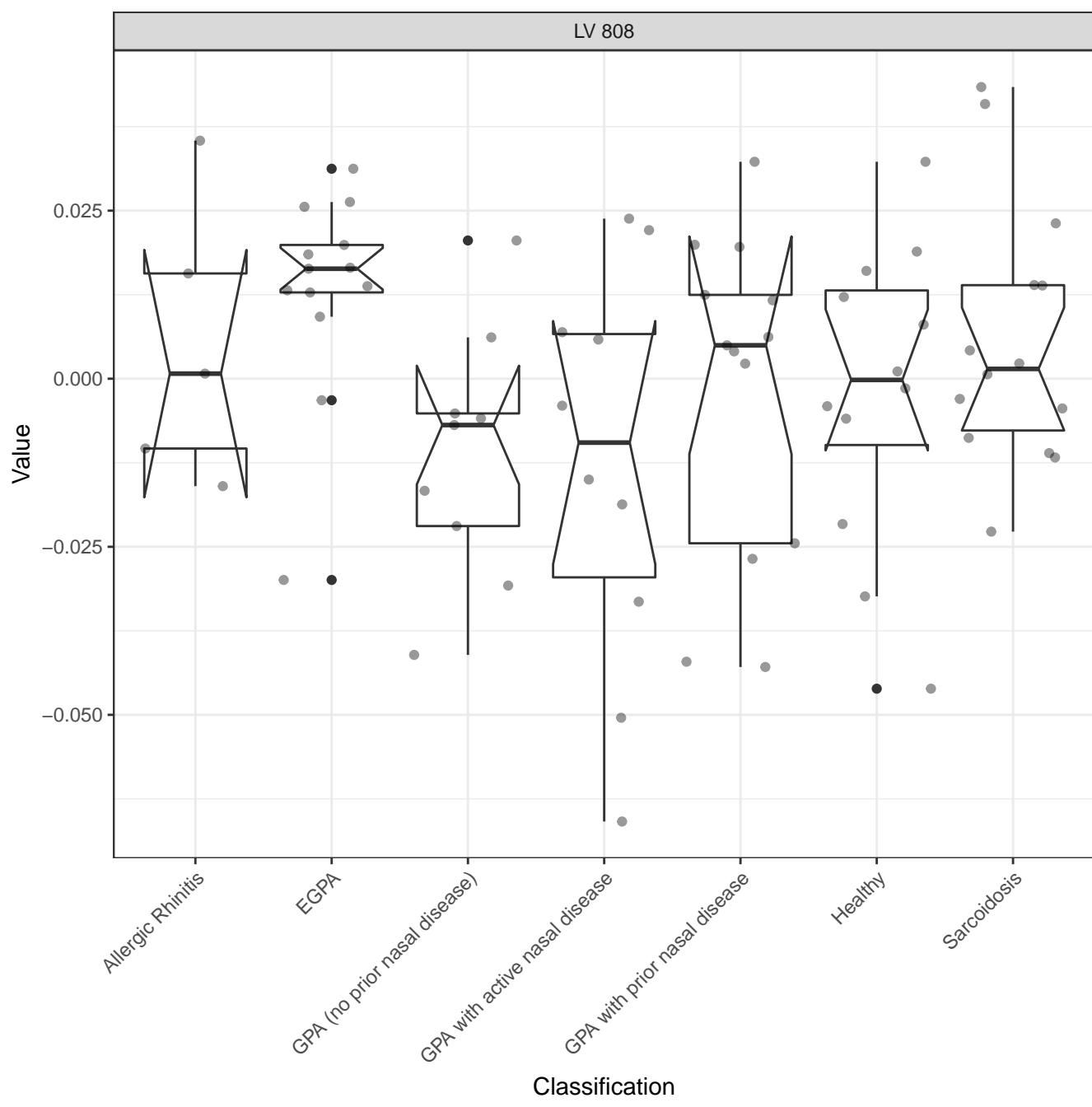
Healthy

Sarcoidosis

Classification

Value





Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

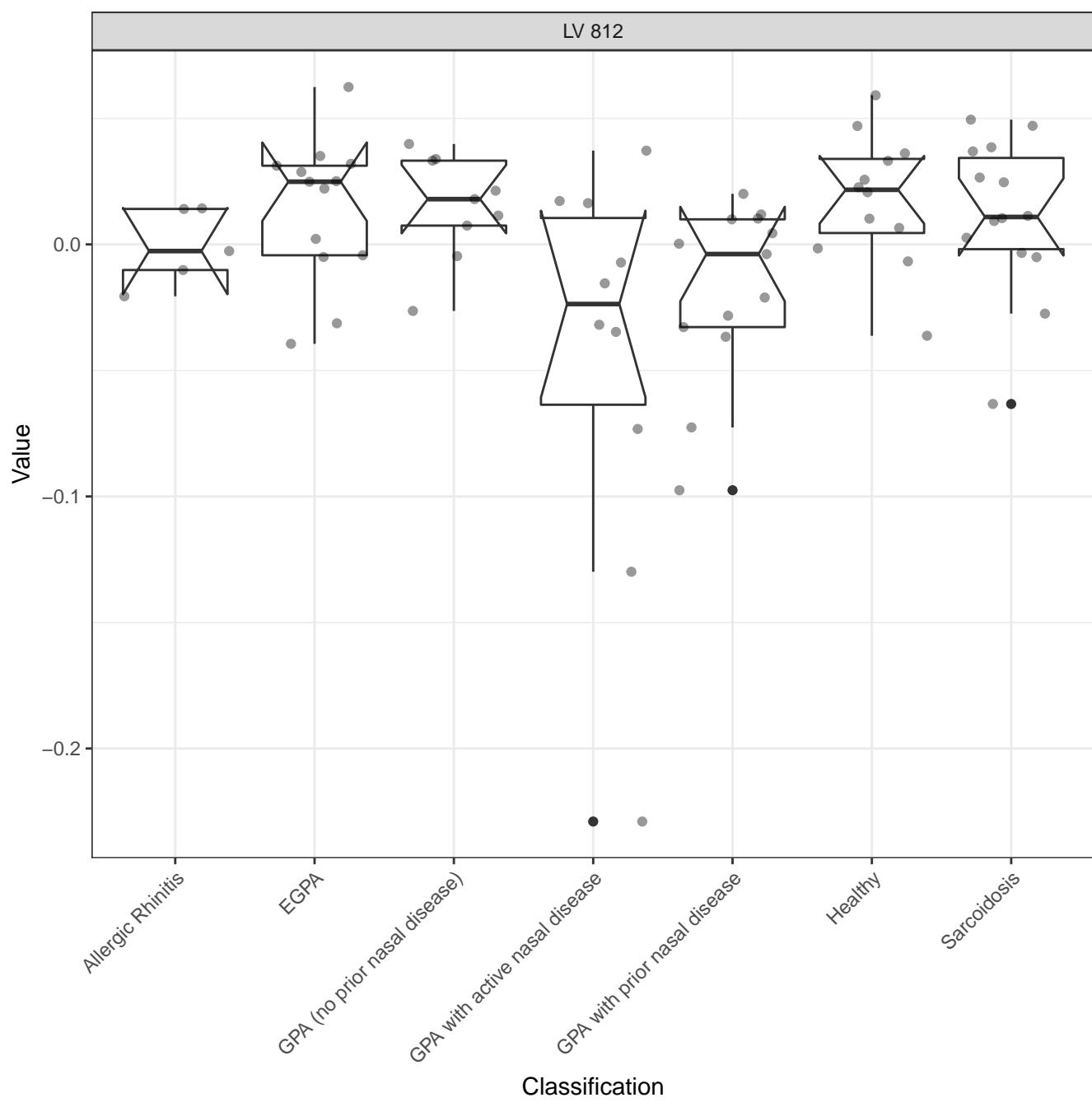
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

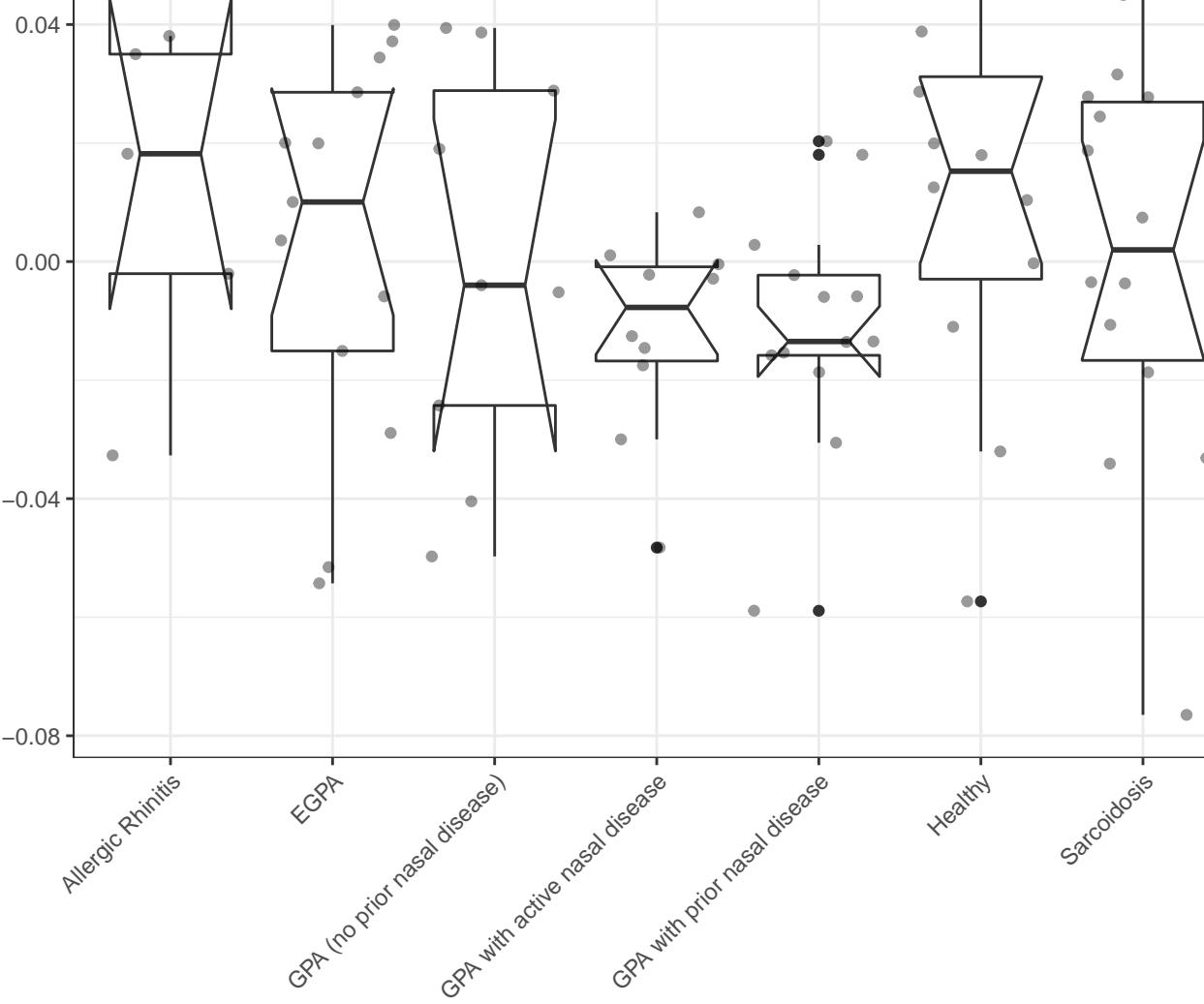
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

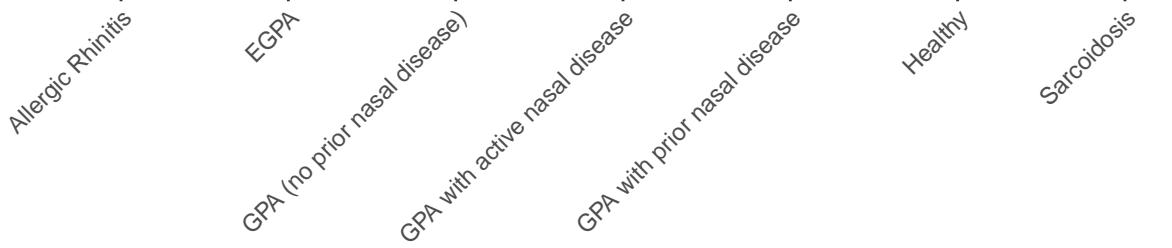
Classification

Value

0.05

0.01

-0.05



Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.050  
0.025  
0.000  
-0.025  
-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

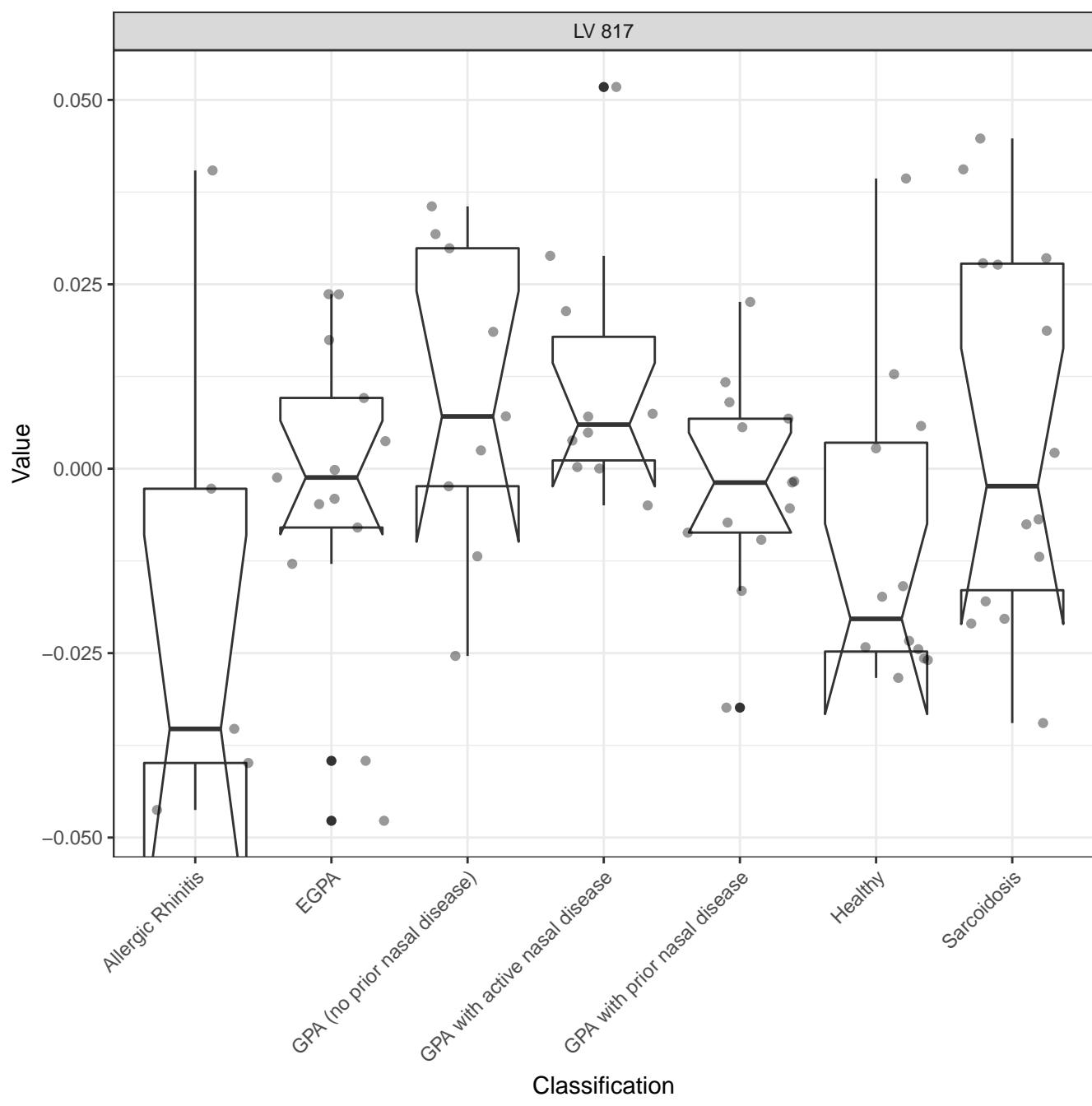
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.02

-0.04

-0.08

-0.12

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

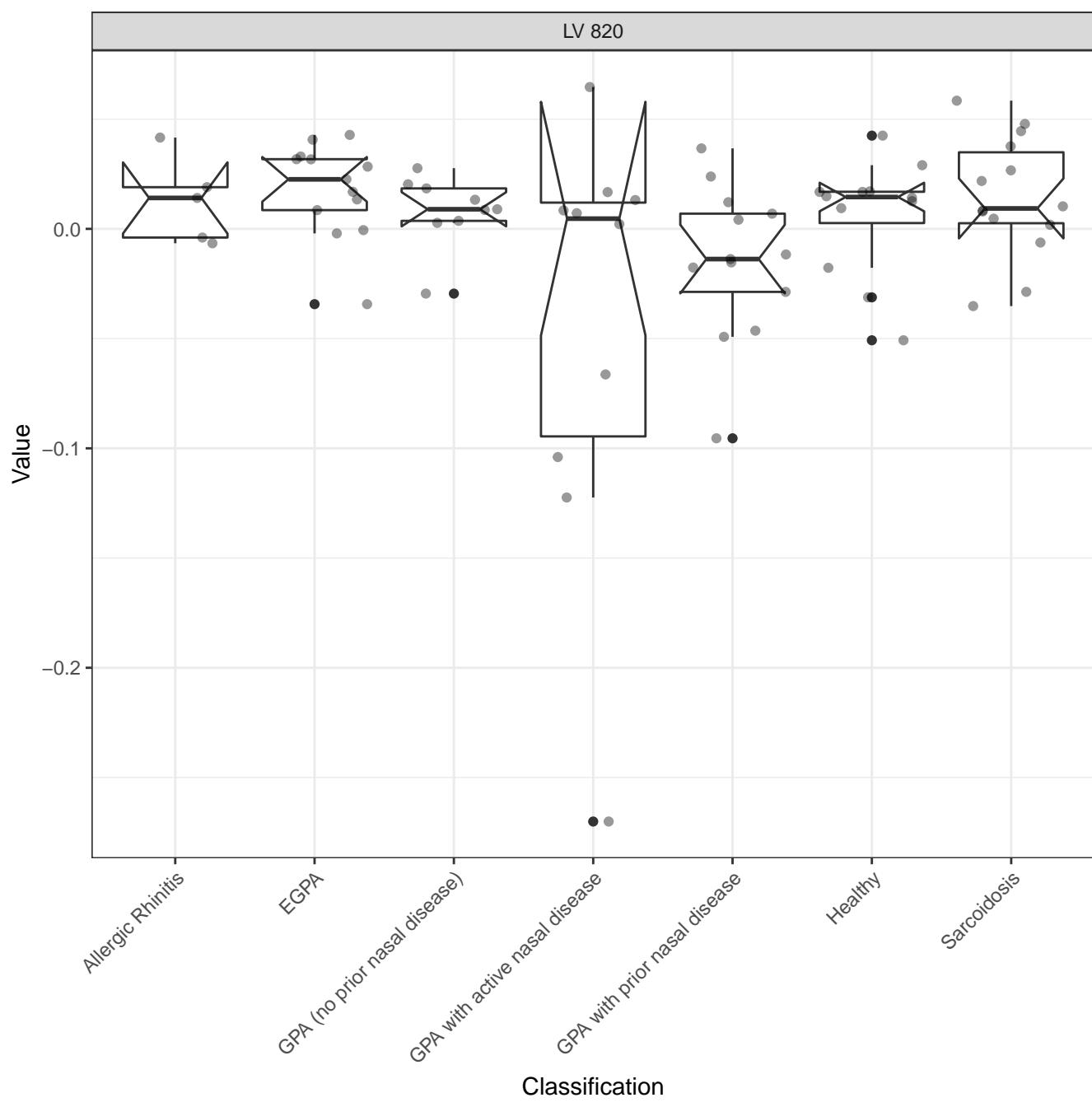
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 823,SVM T cells CD4 memory resting

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

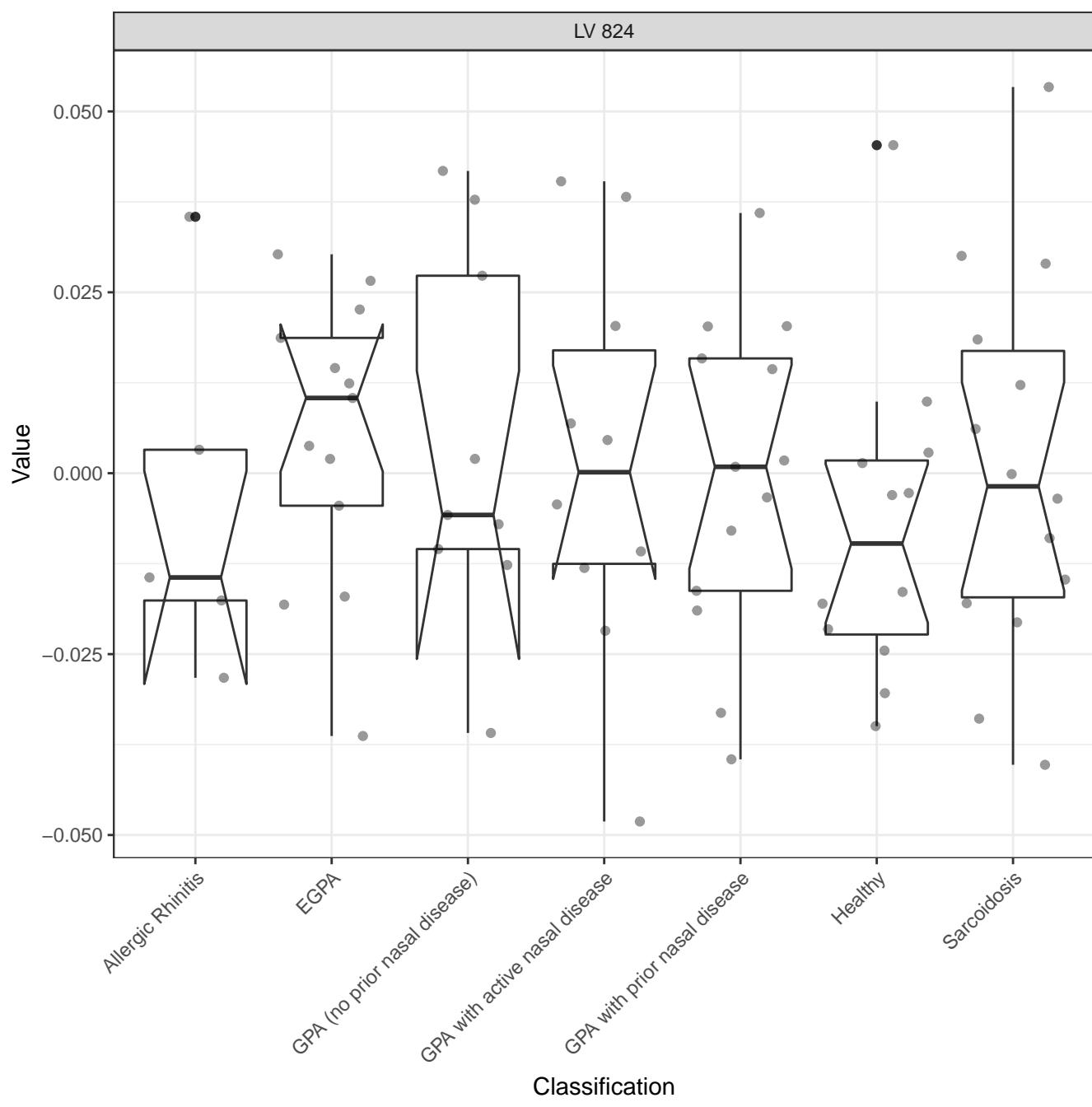
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

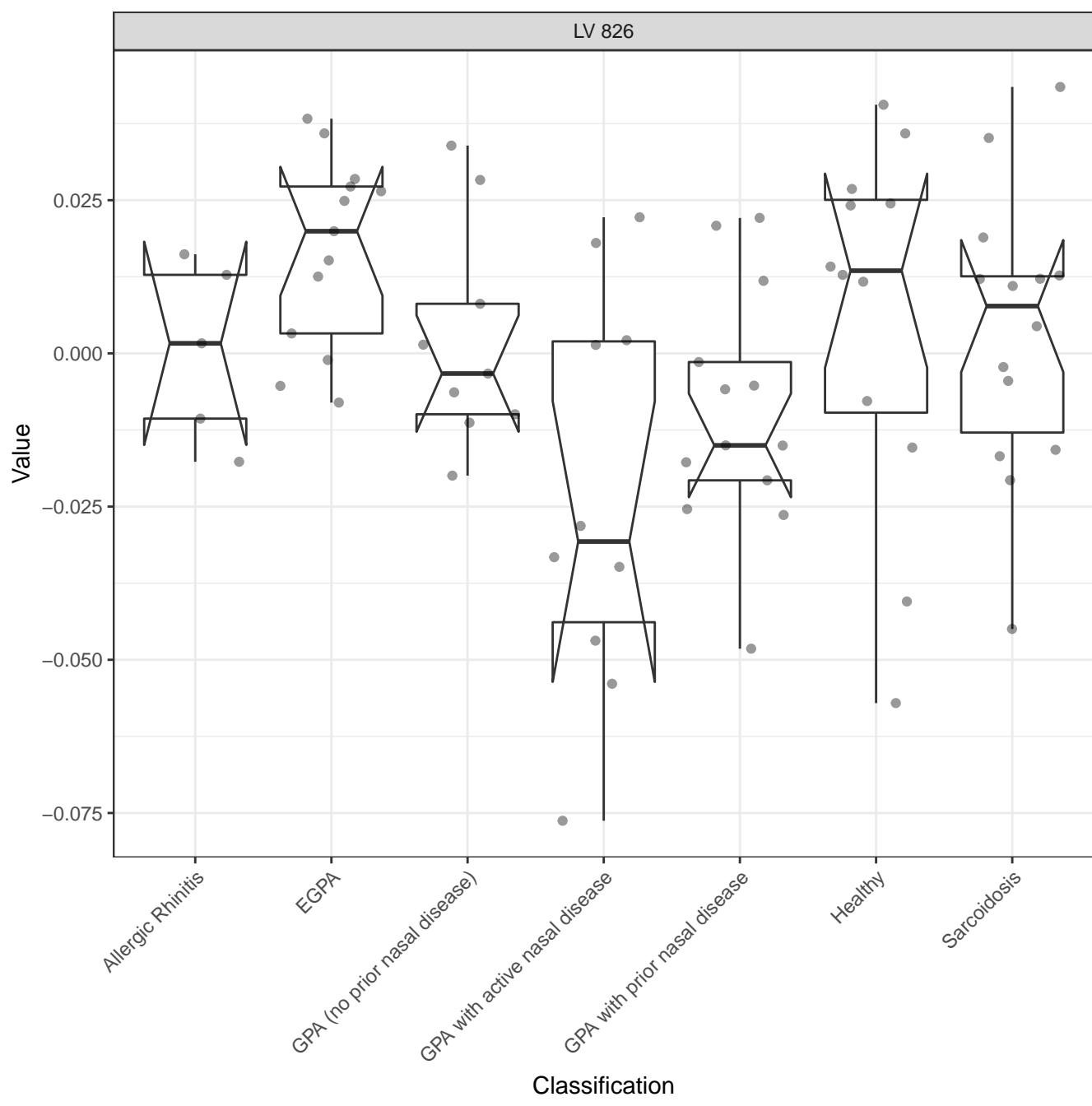
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



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

Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

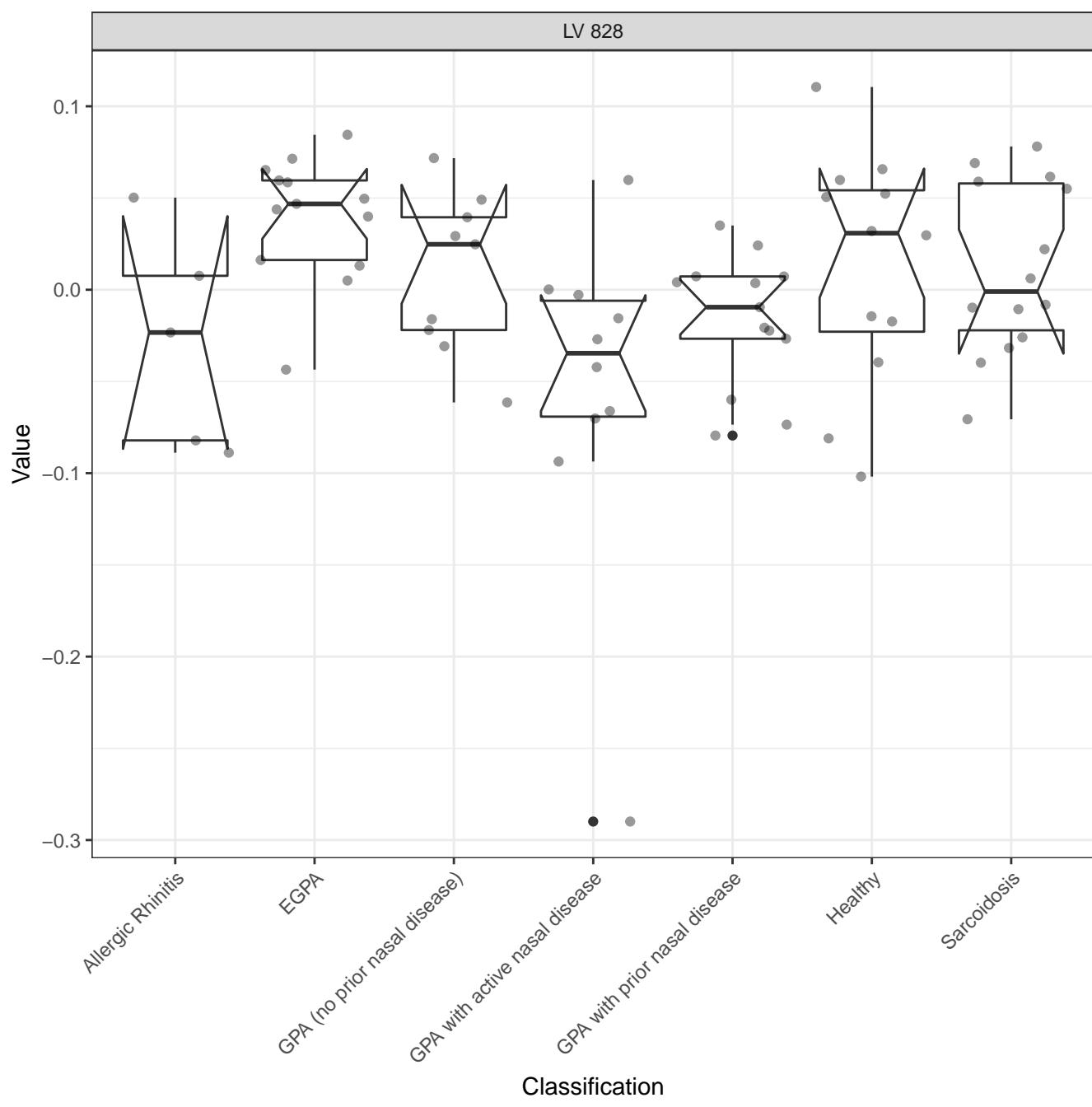
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

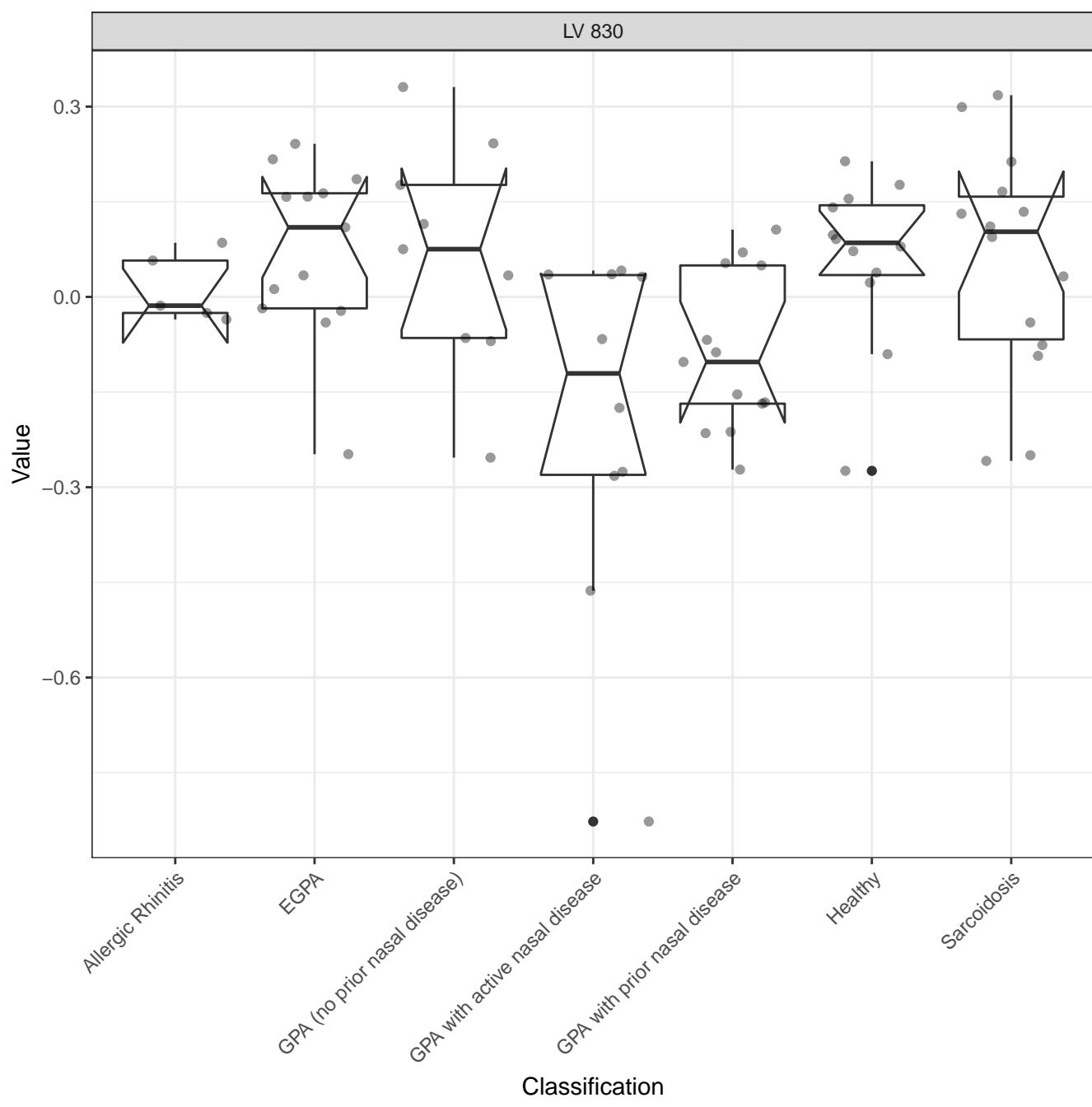
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

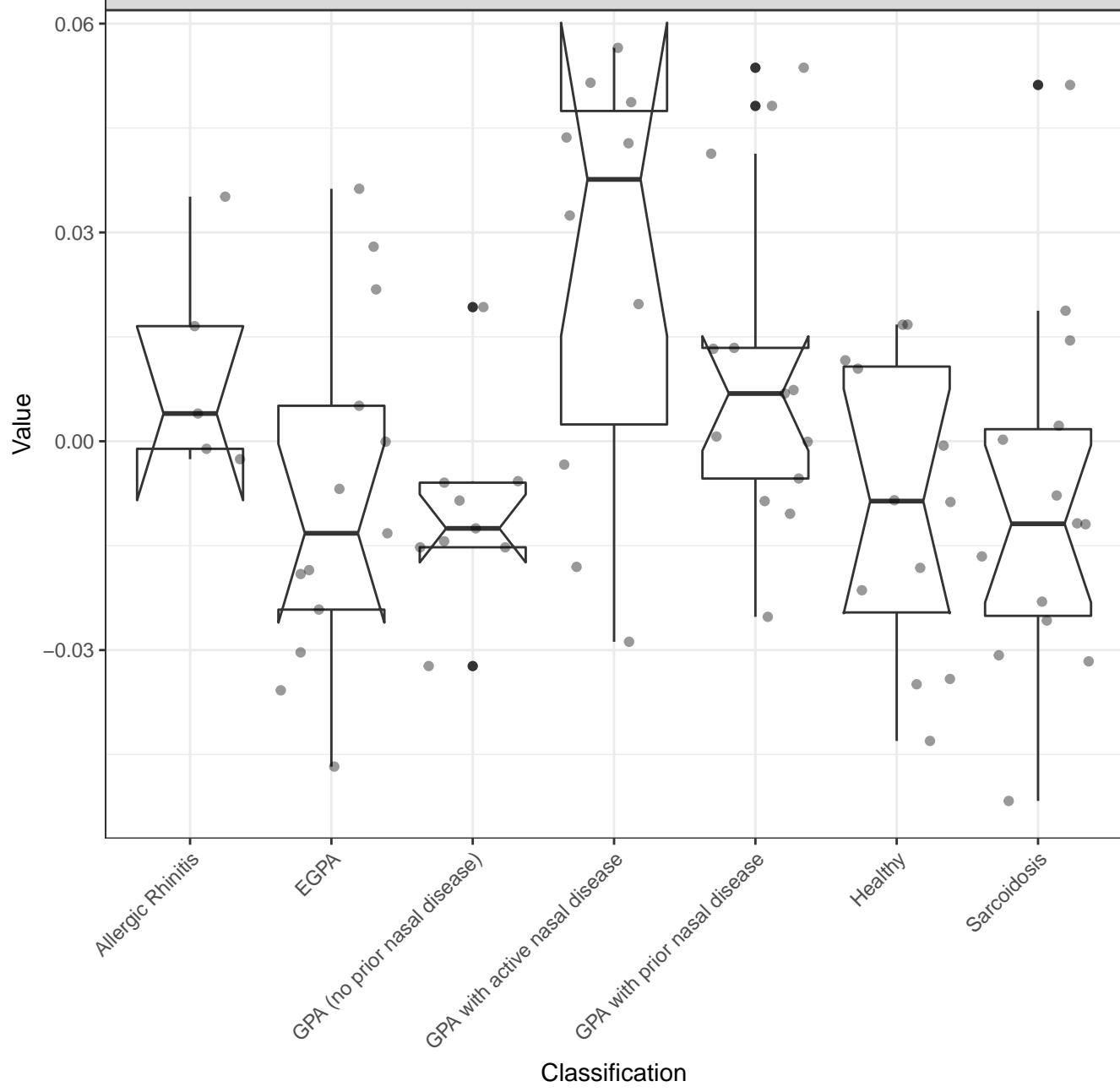
GPA with active nasal disease

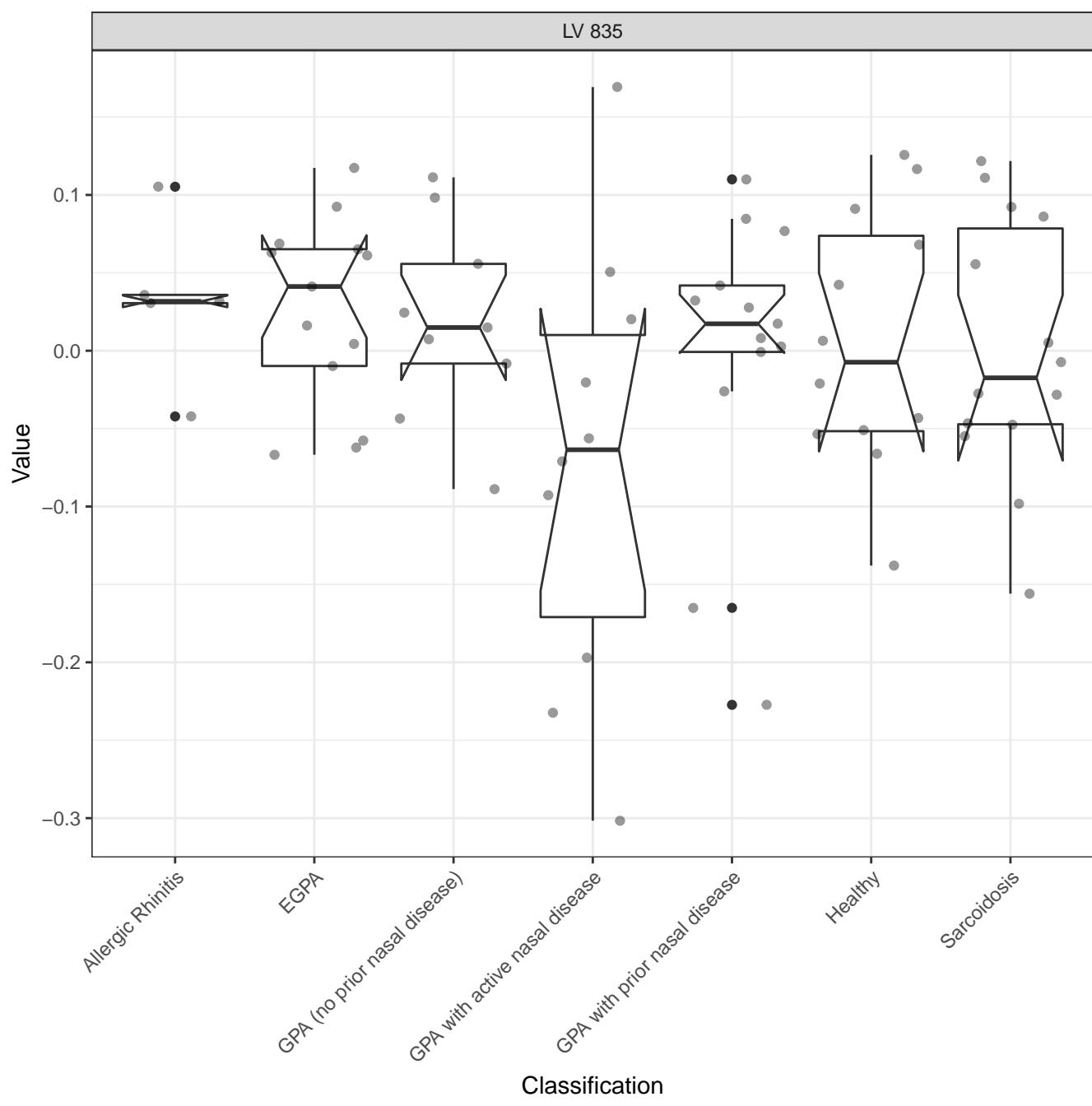
GPA with prior nasal disease

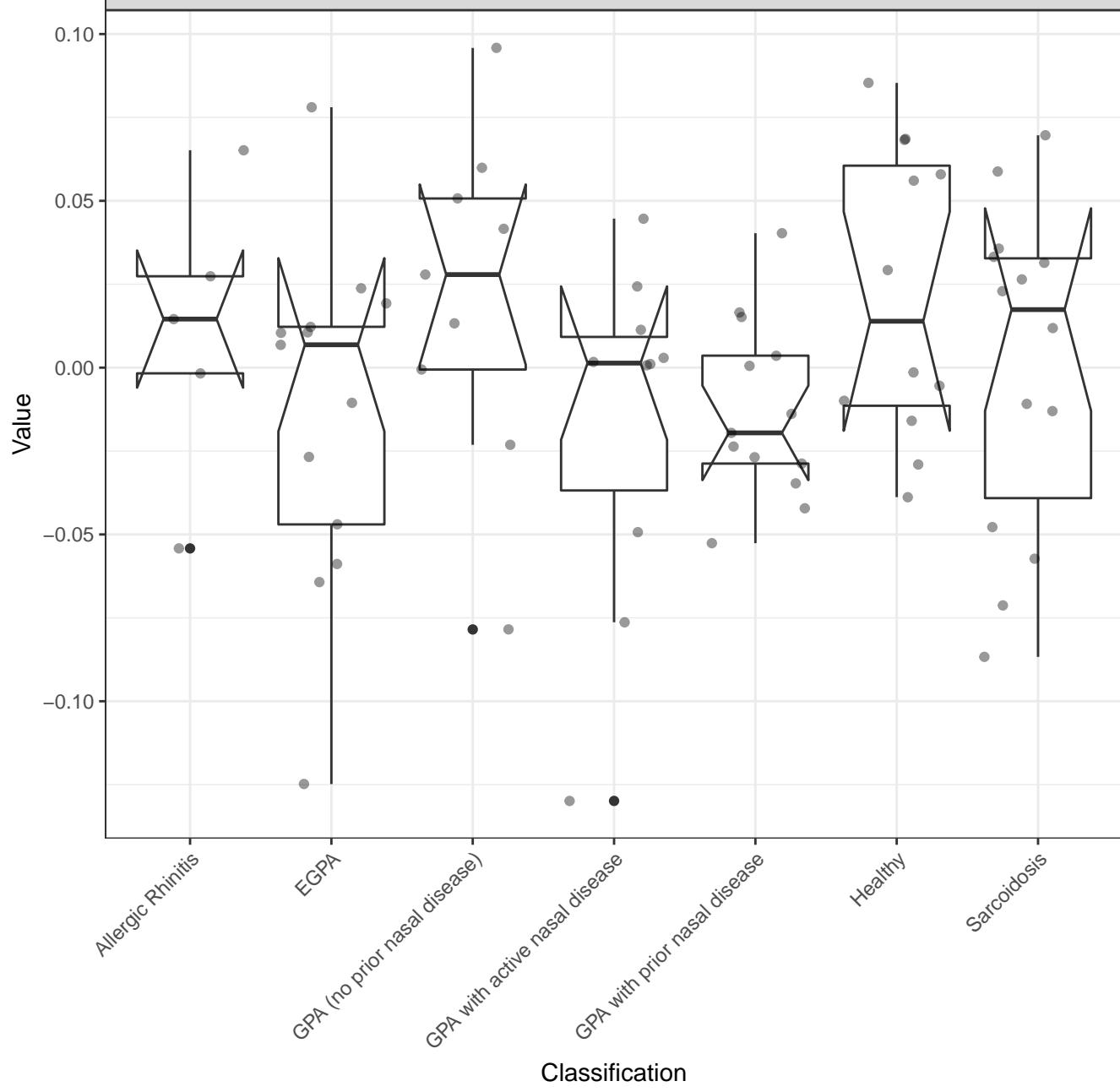
Healthy

Sarcoidosis

Classification







Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

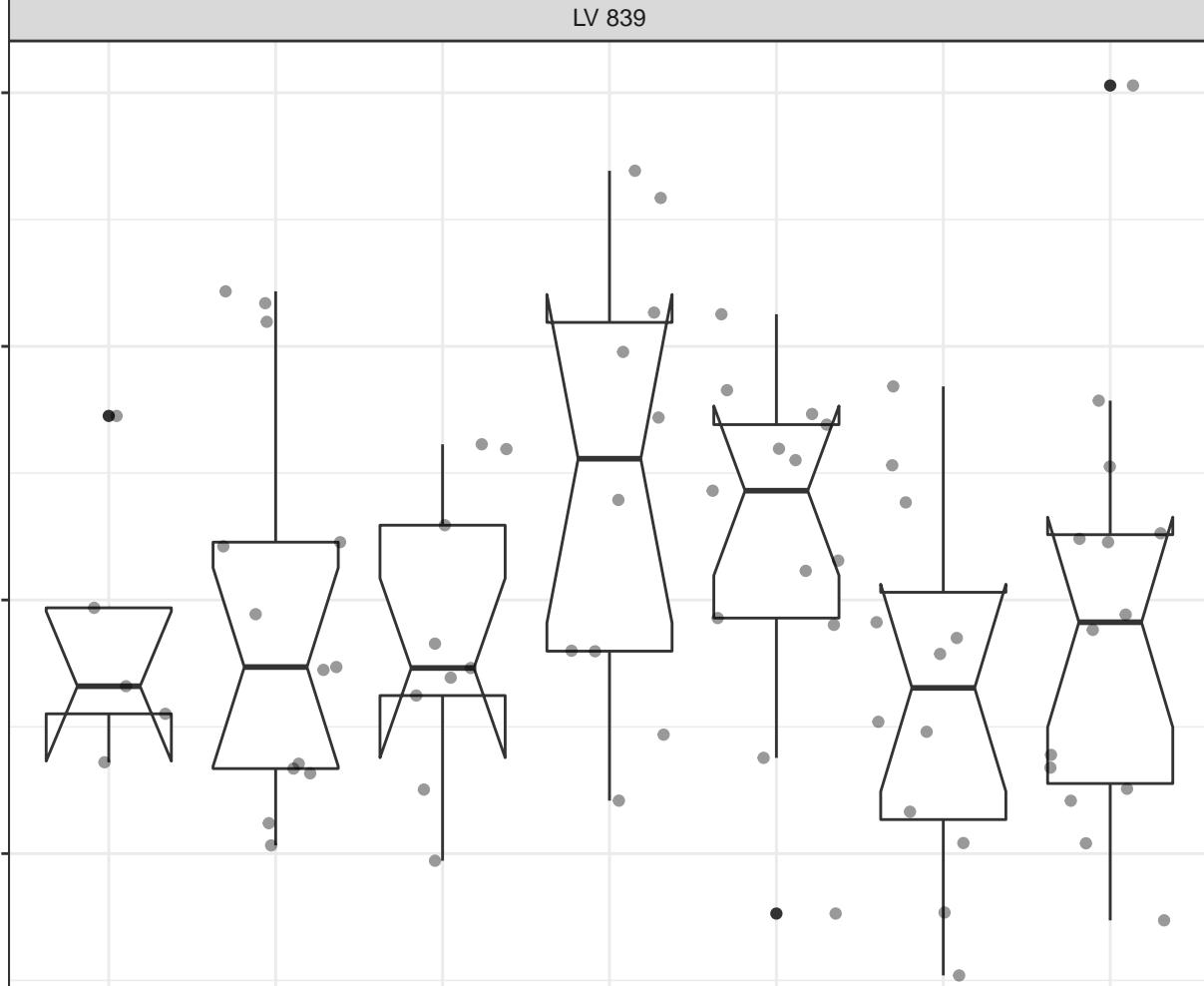
GPA with active nasal disease

GPA with prior nasal disease

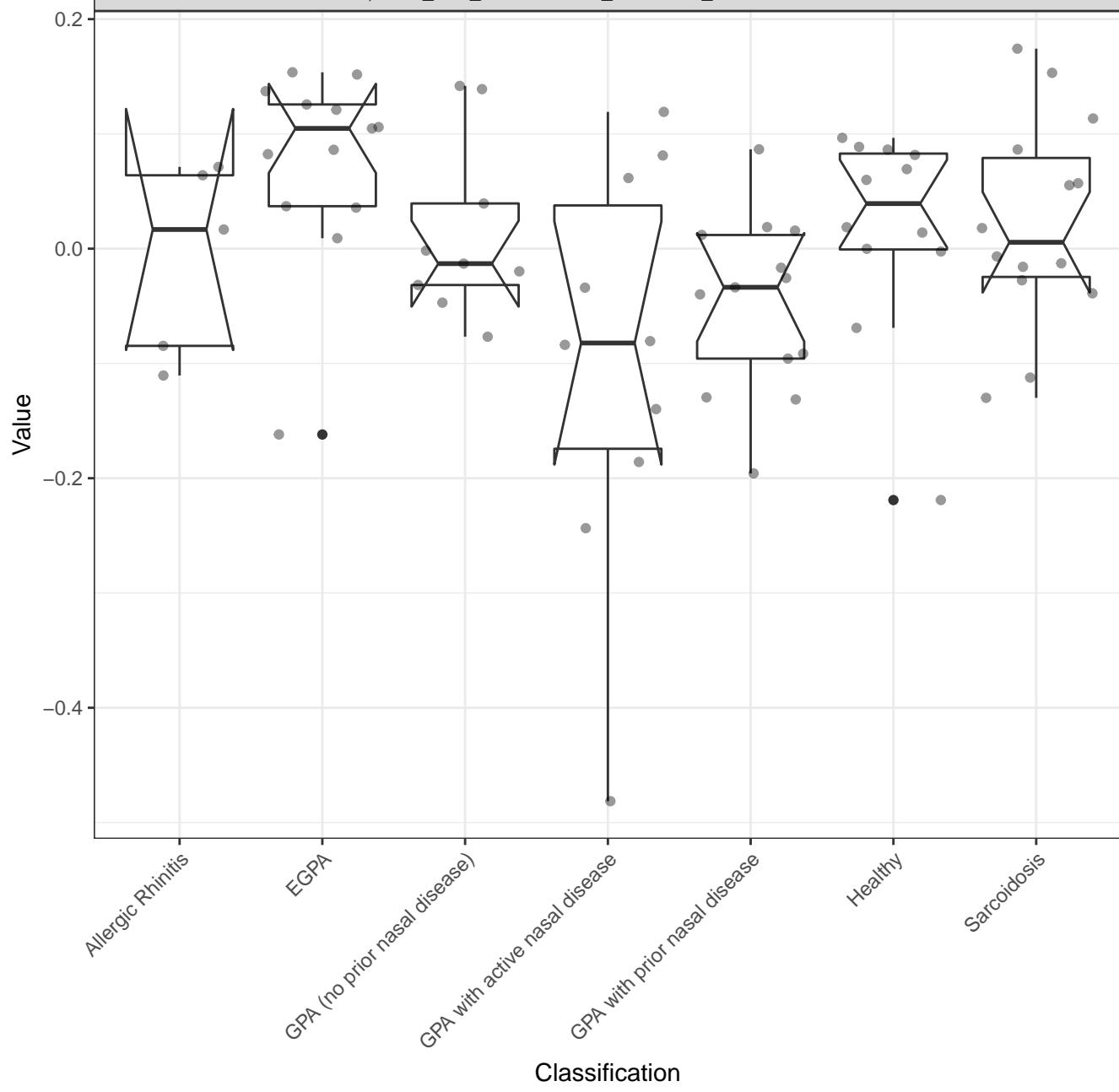
Healthy

Sarcoidosis

Classification



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



Value

0.2

0.0

-0.2

-0.4

-0.6

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

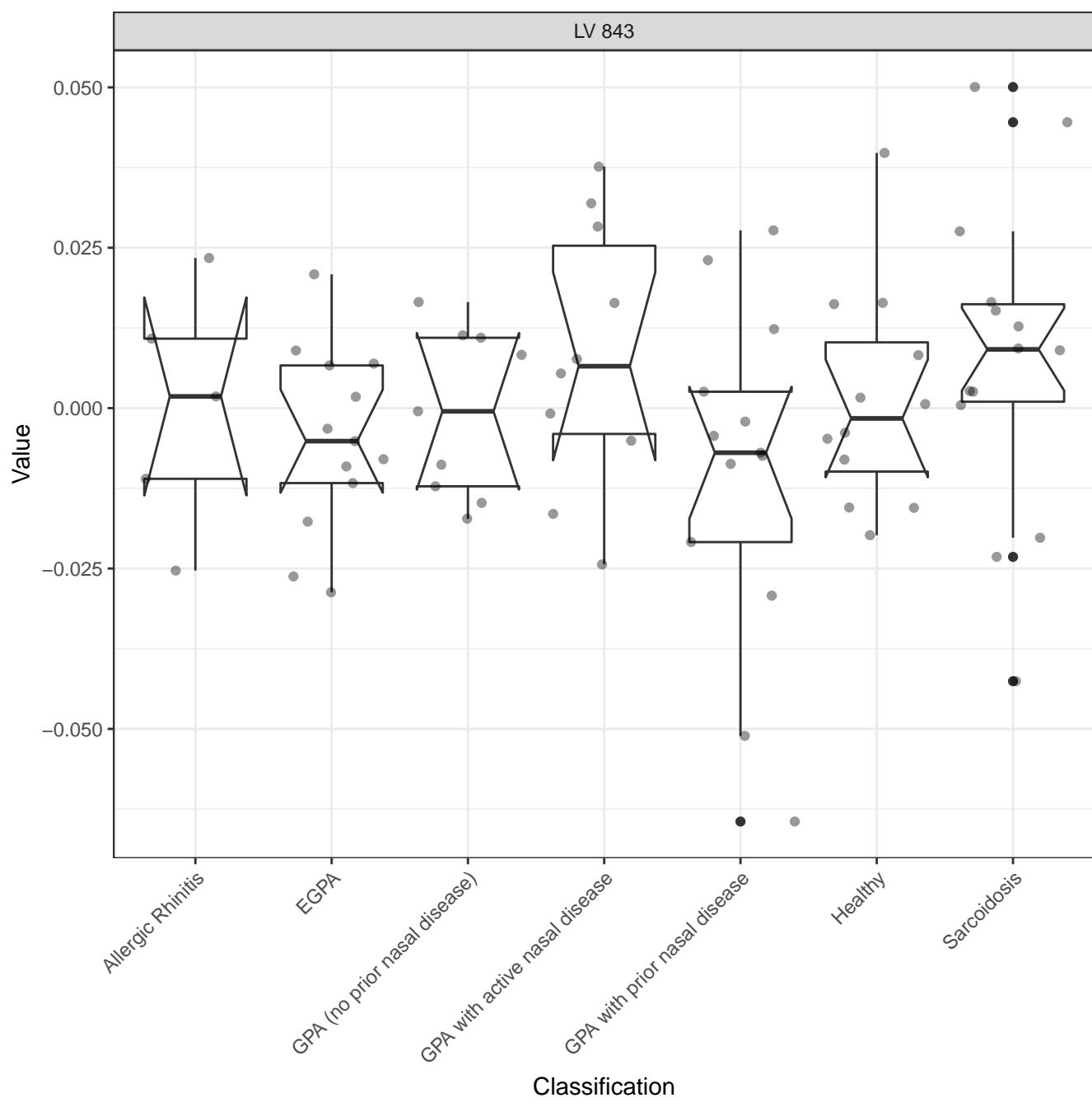
GPA with active nasal disease

GPA with prior nasal disease

Healthy

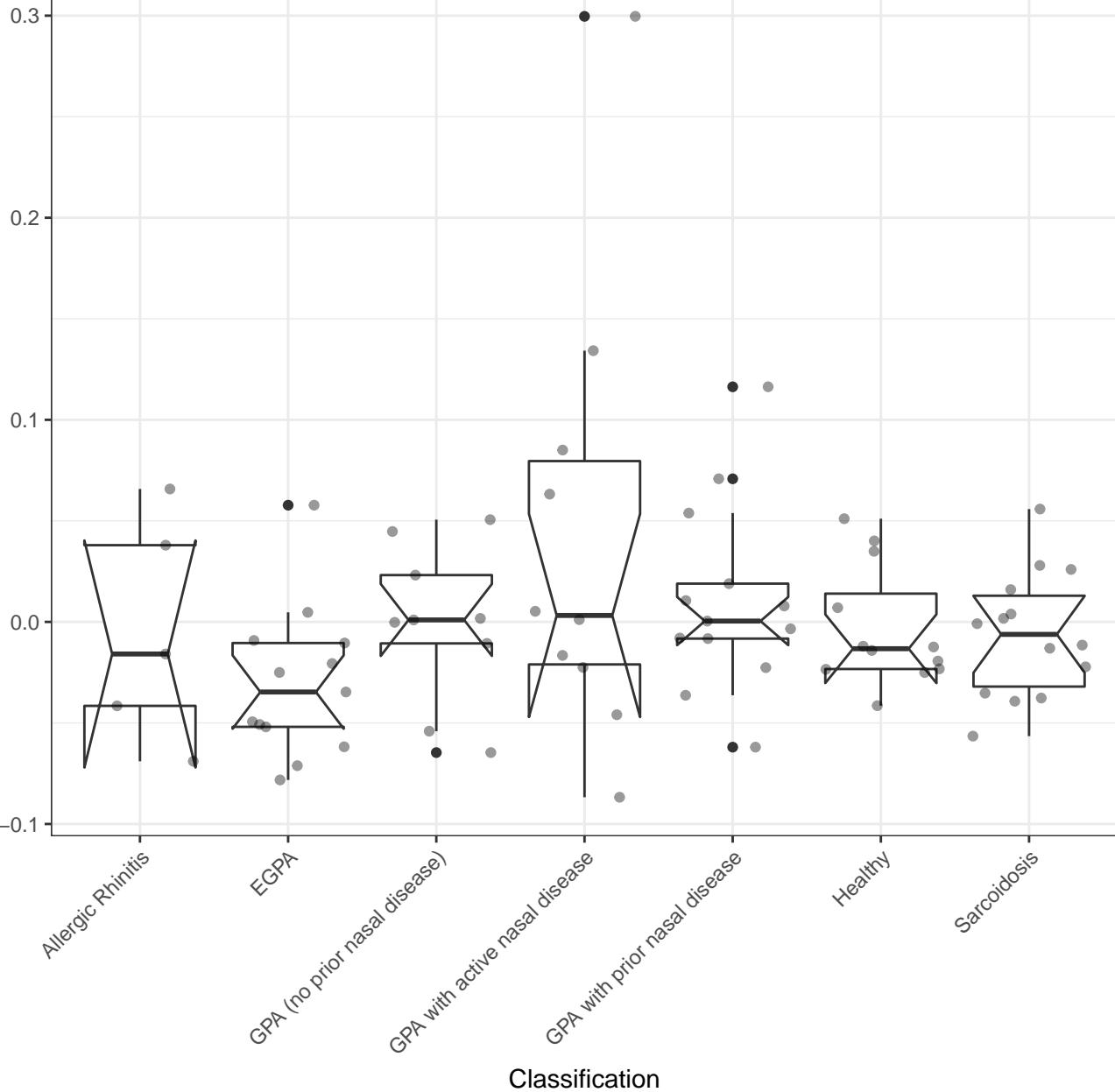
Sarcoidosis

Classification



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

Value



Value

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 846

Value

0.050  
0.025  
0.000  
-0.025  
-0.050  
-0.075

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 848,REACTOME\_GENERIC\_TRANSSCRIPTION\_PATHWAY

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

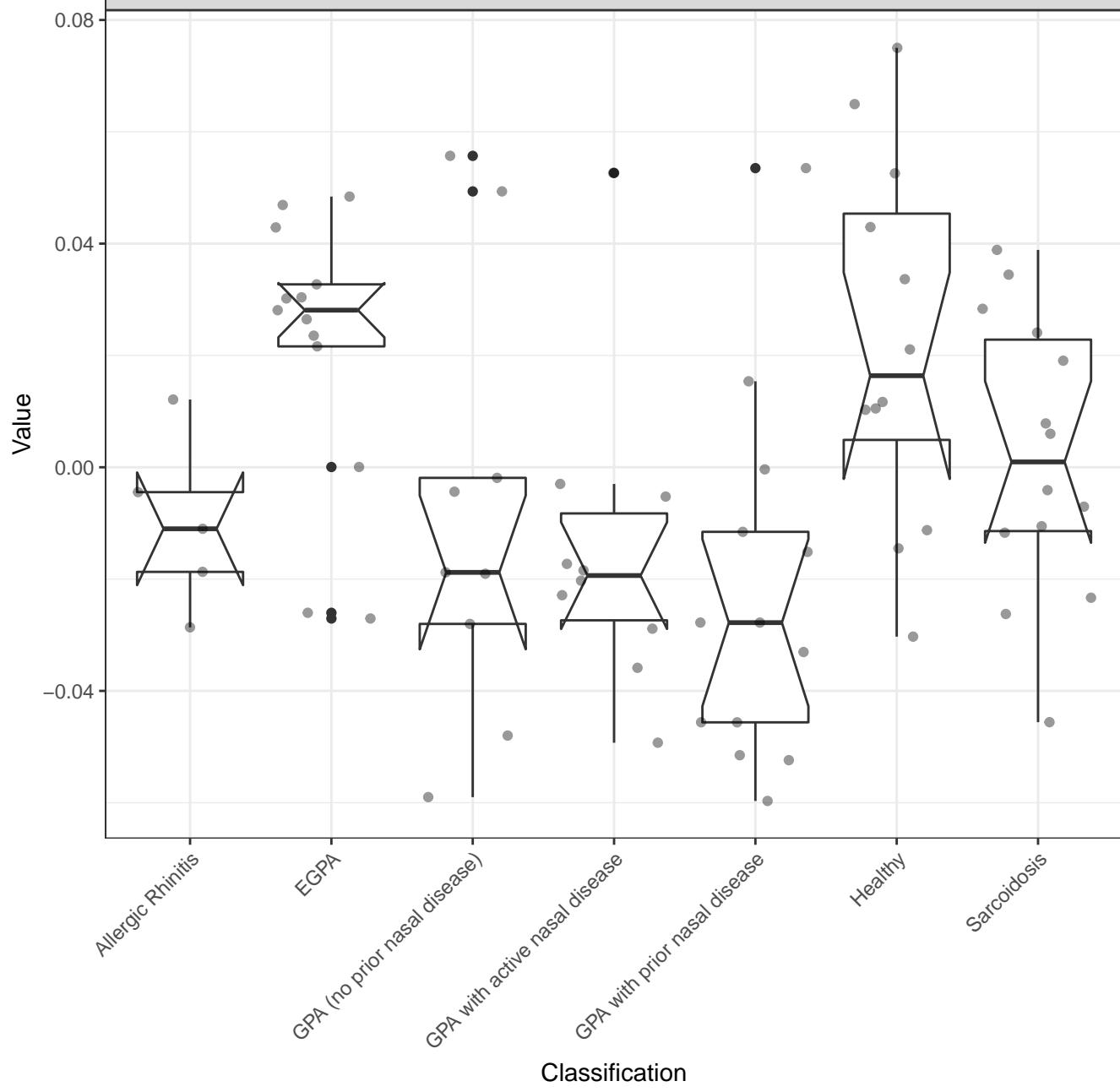
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

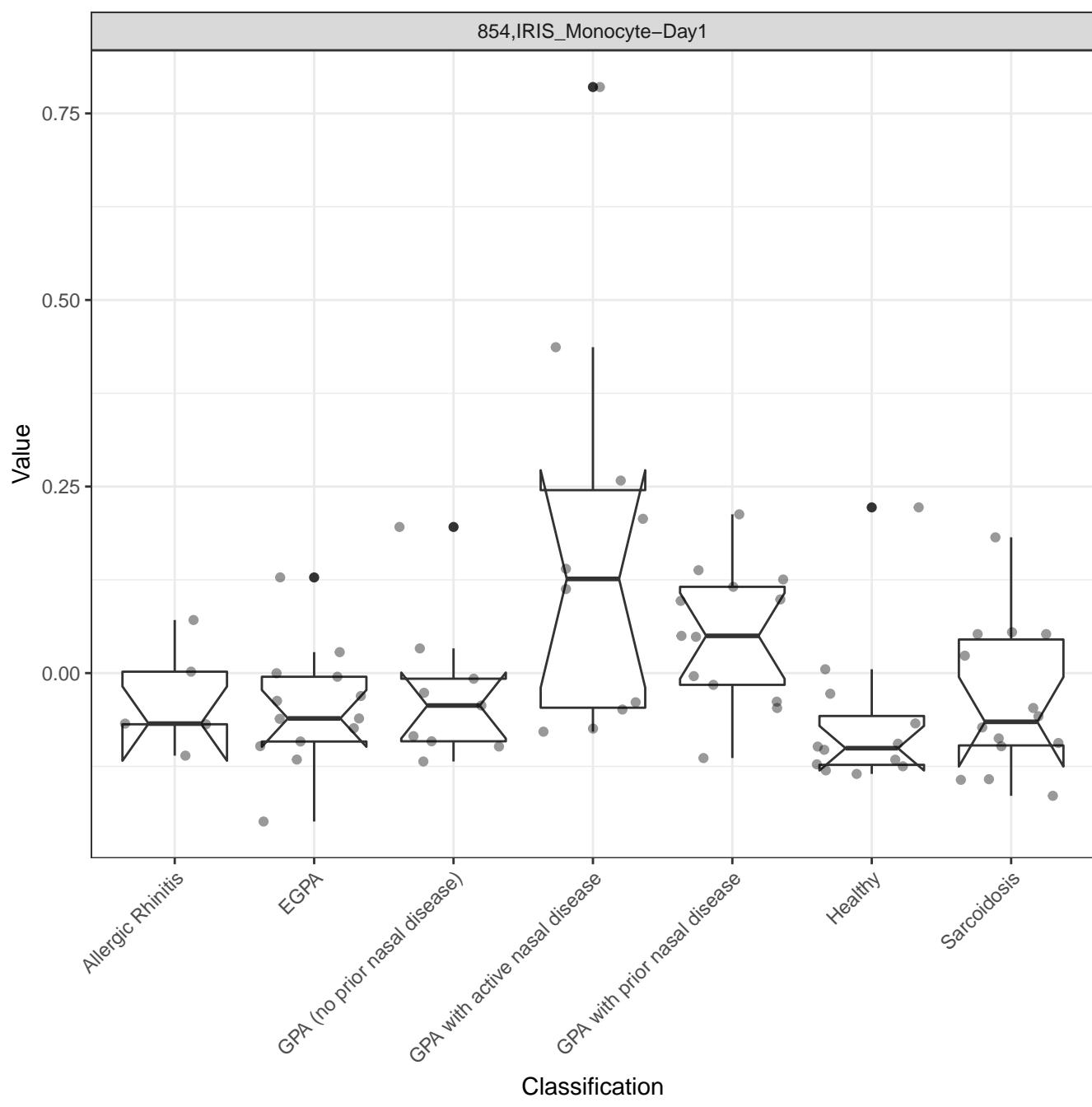
GPA with active nasal disease

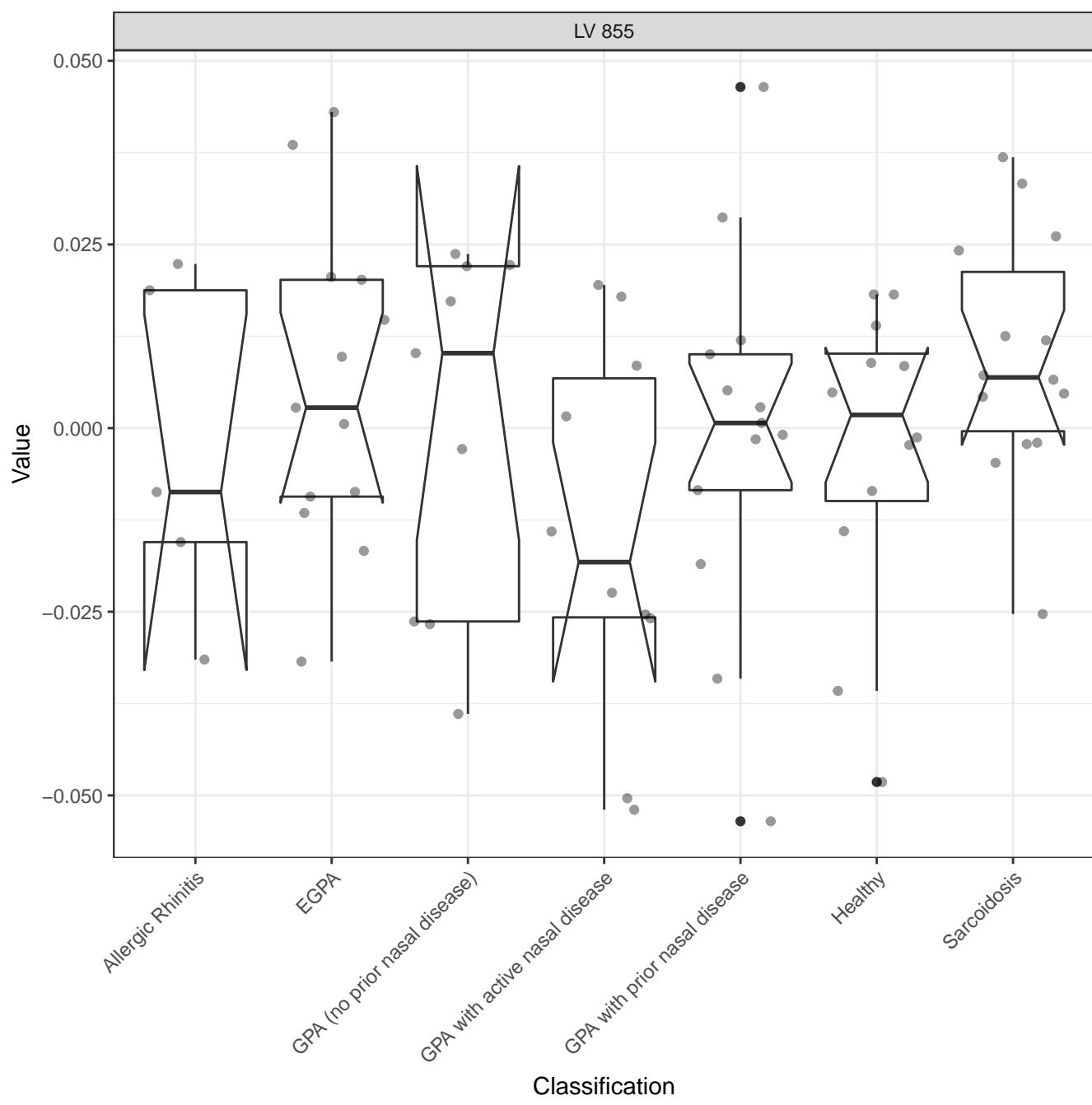
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification





Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

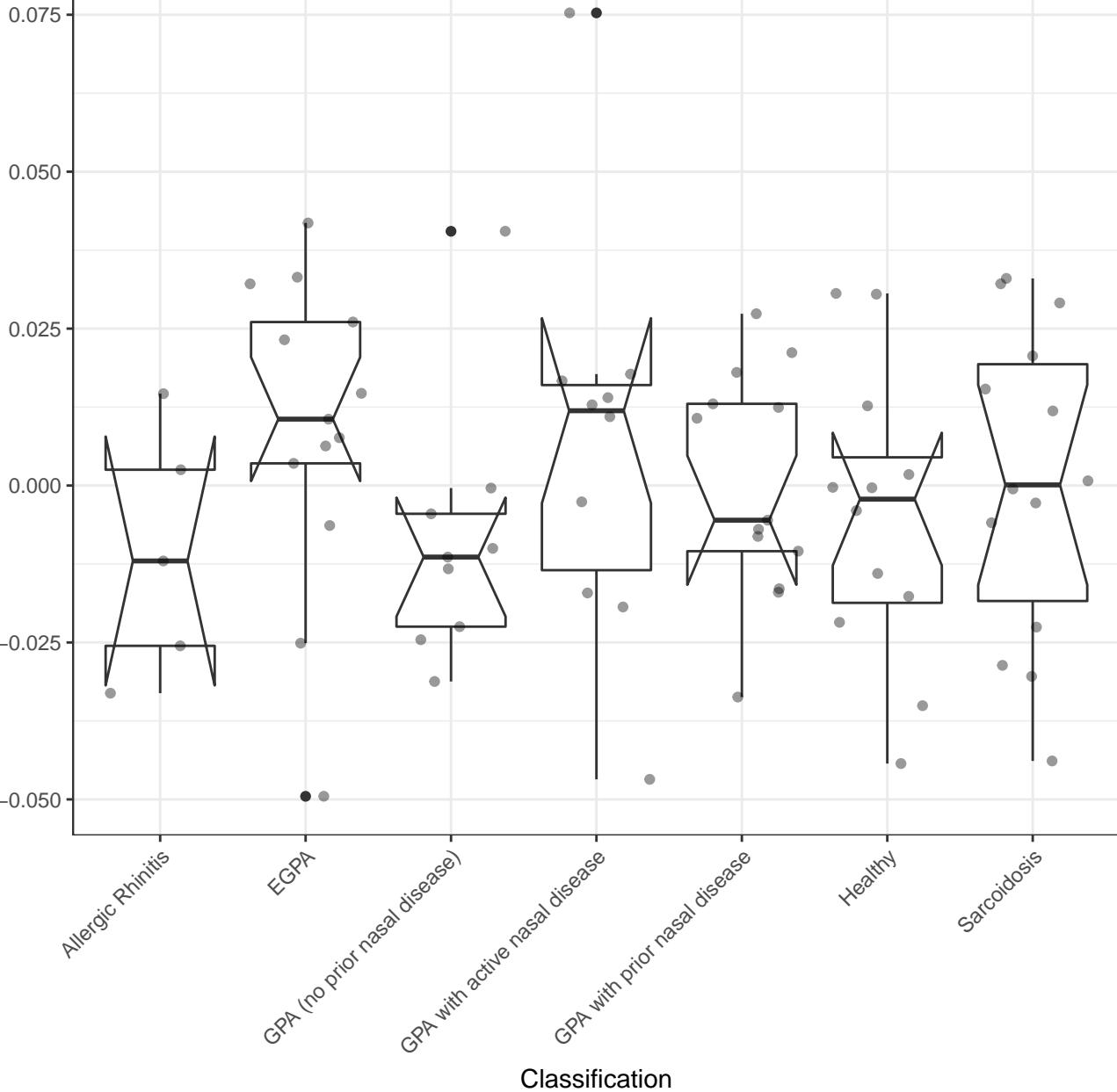
Healthy

Sarcoidosis

Classification

LV 859

Value



LV 860

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

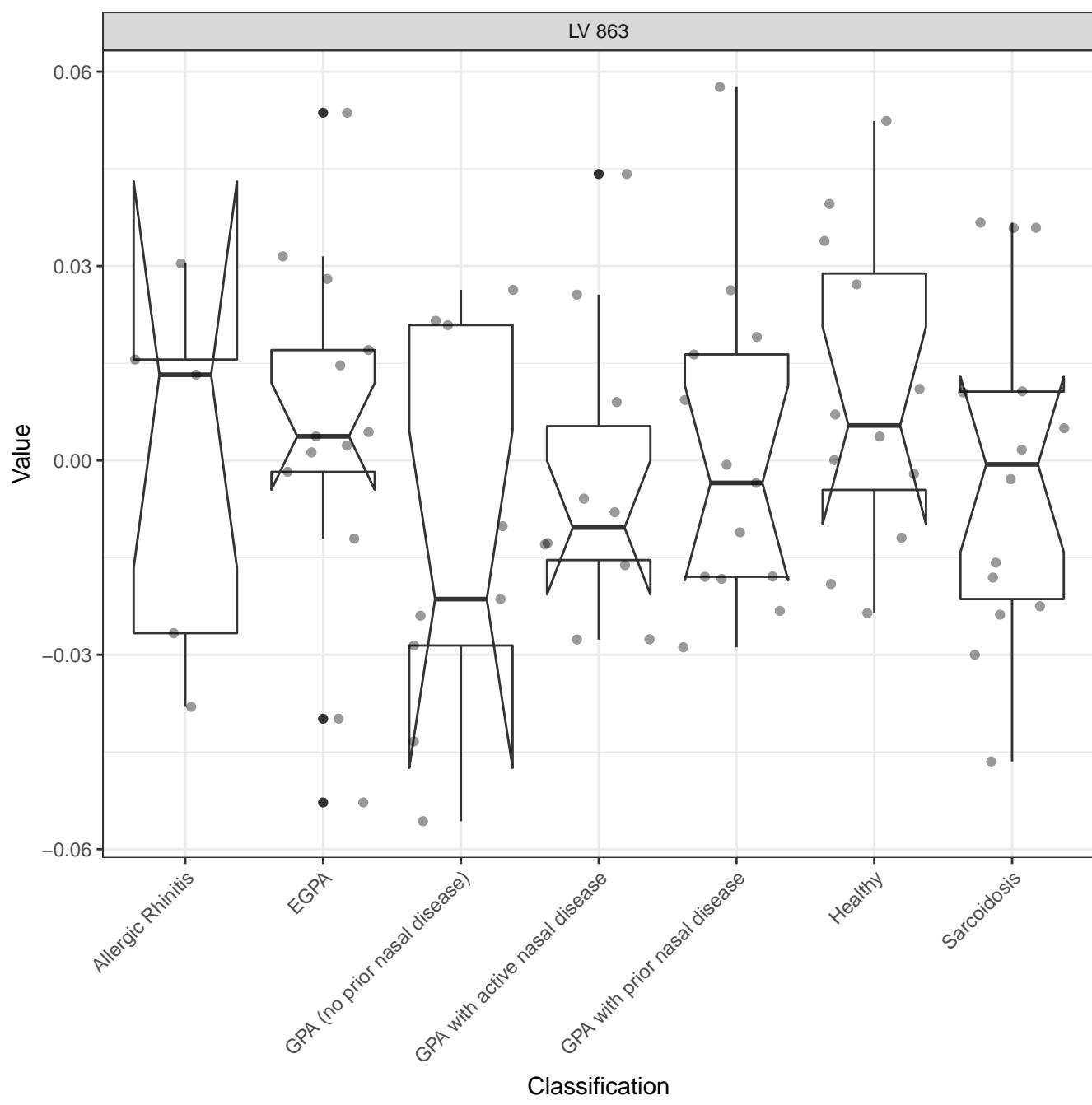
GPA with active nasal disease

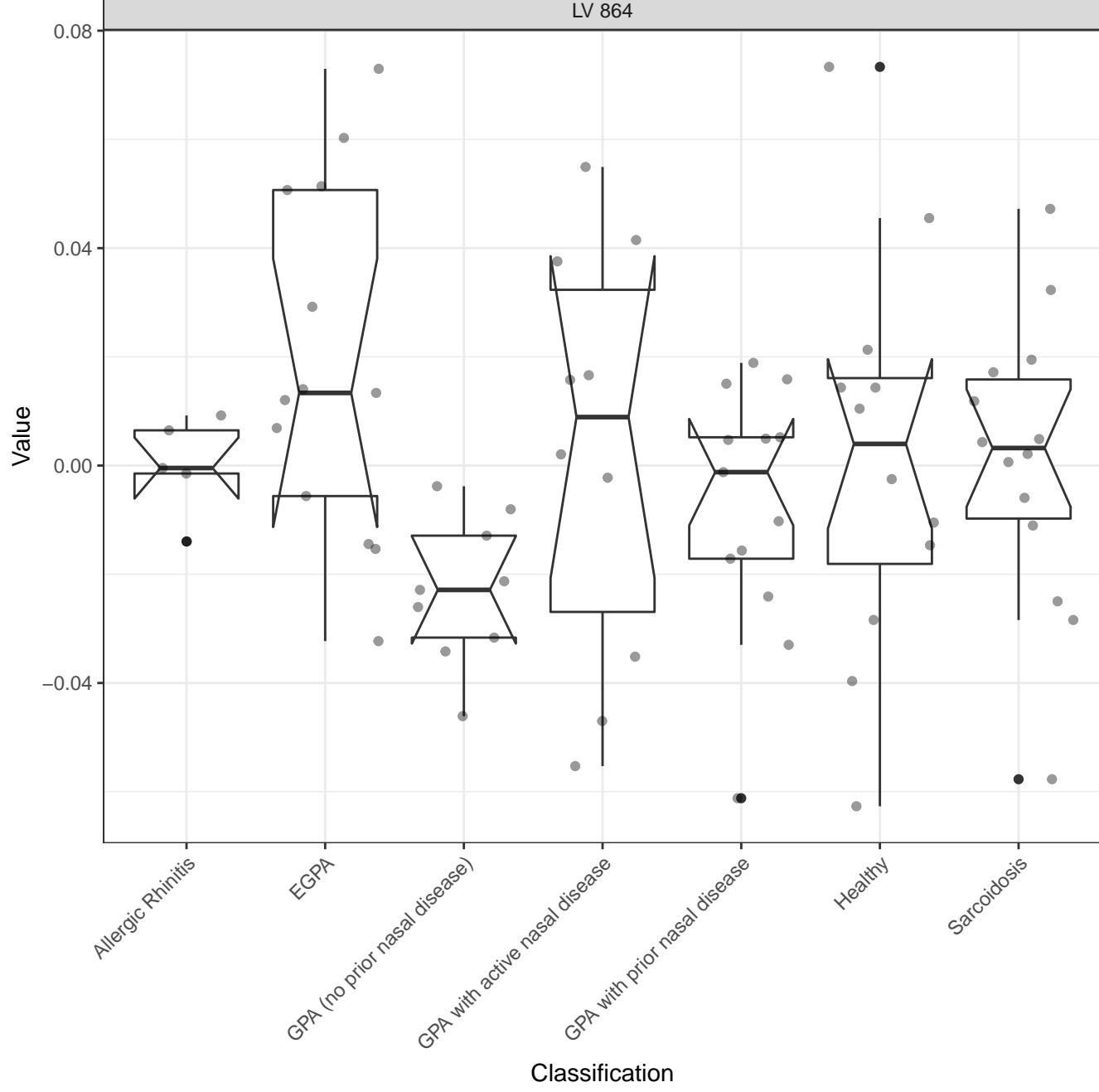
GPA with prior nasal disease

Healthy

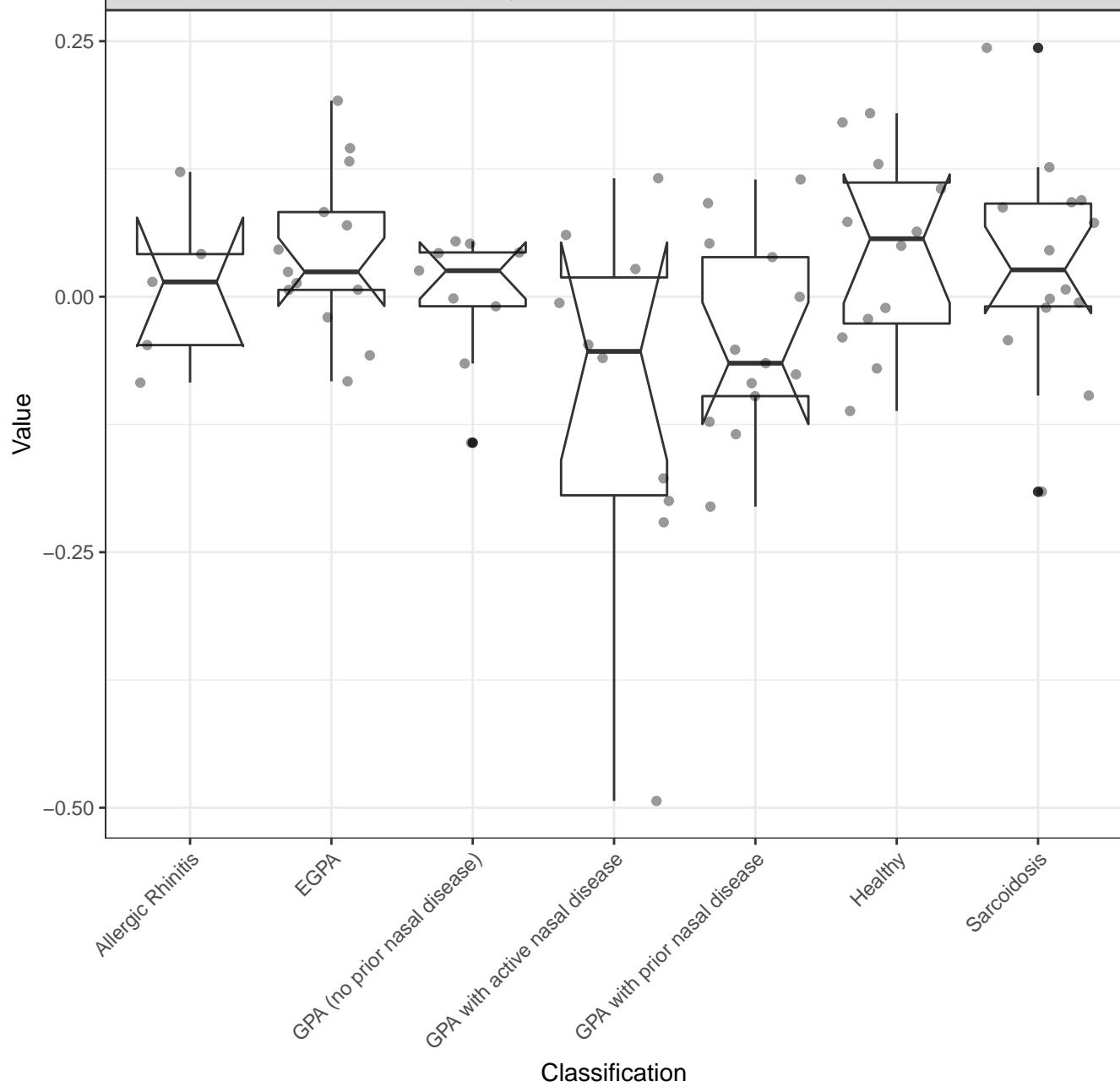
Sarcoidosis

Classification

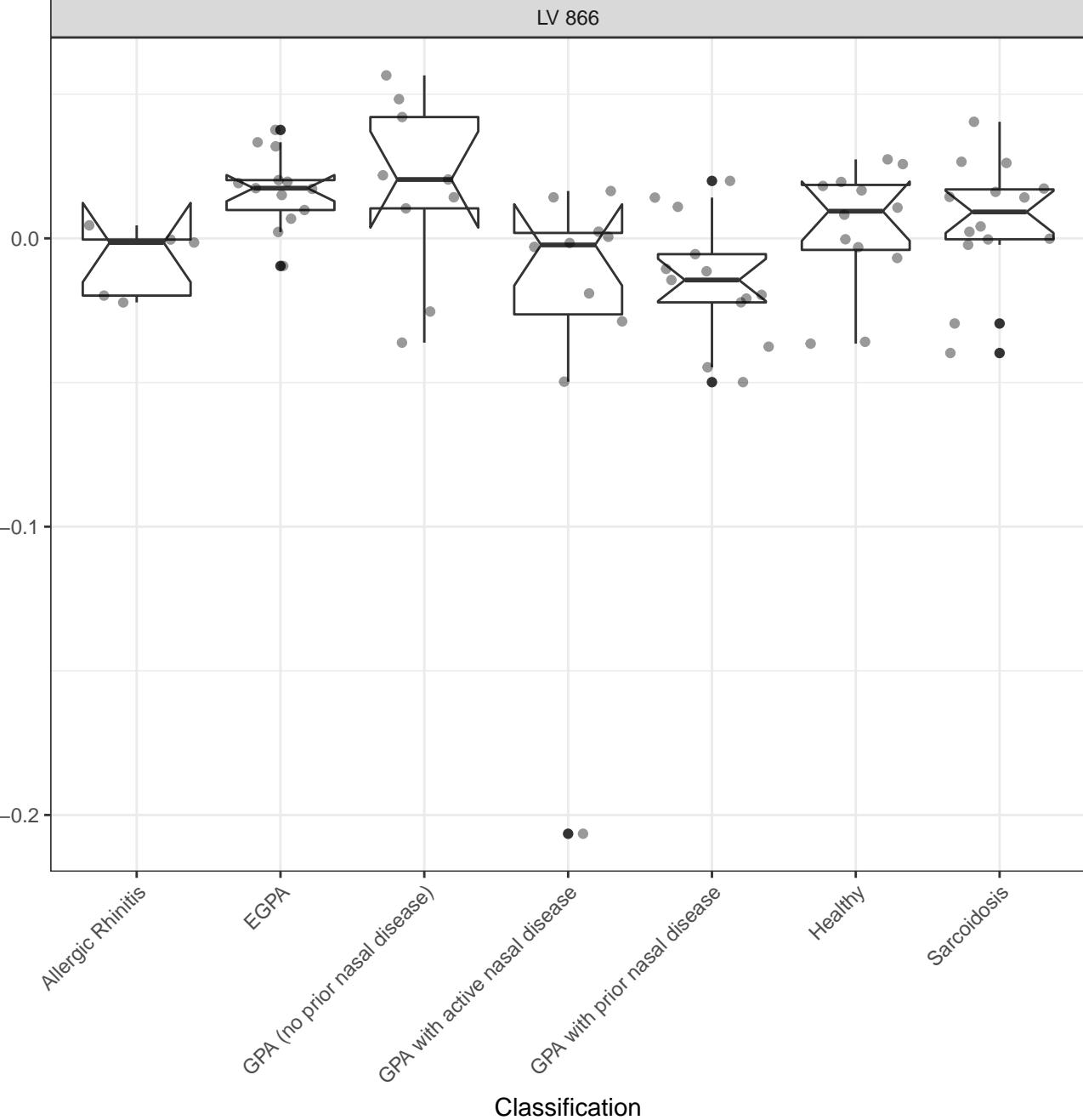


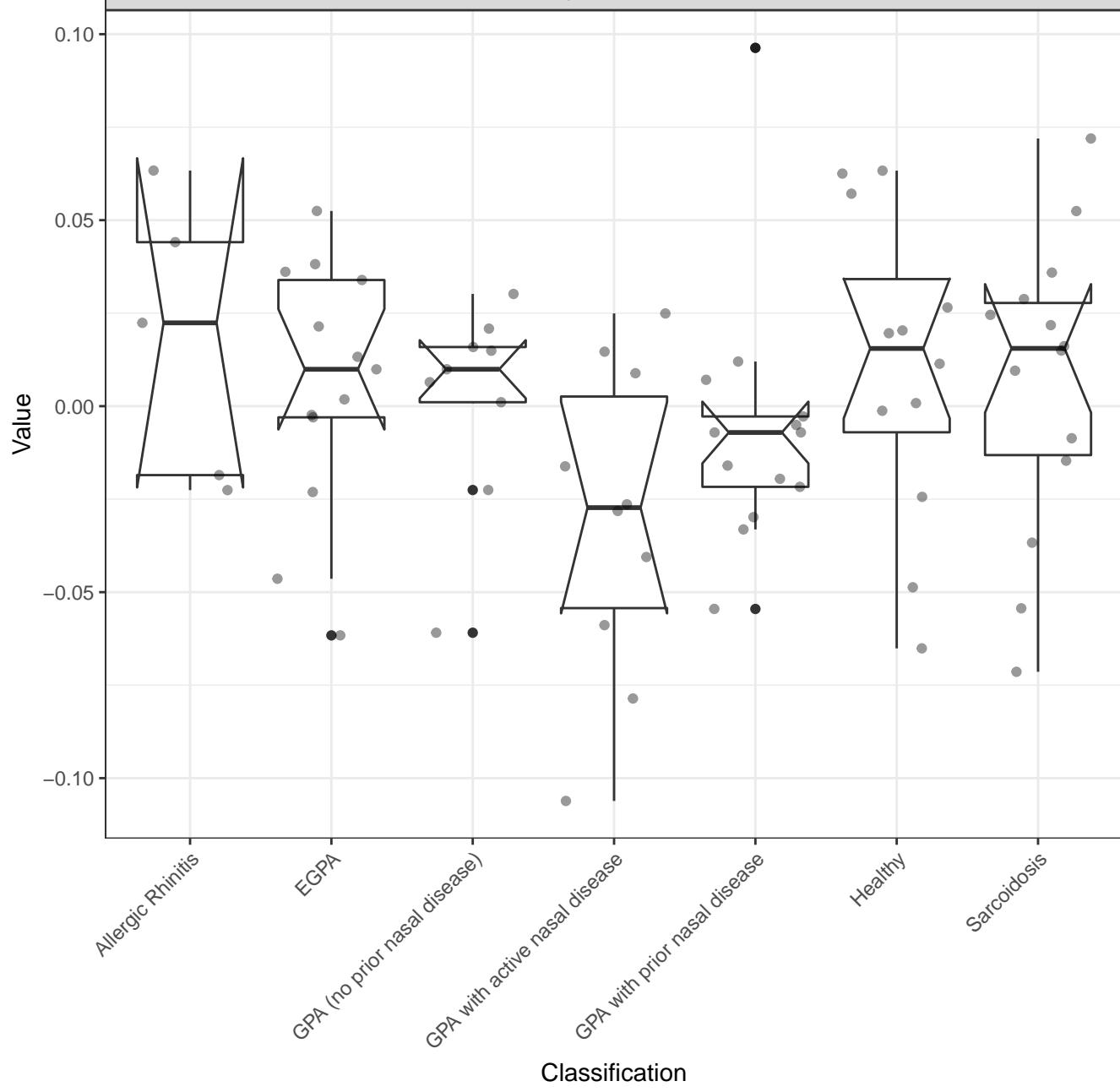


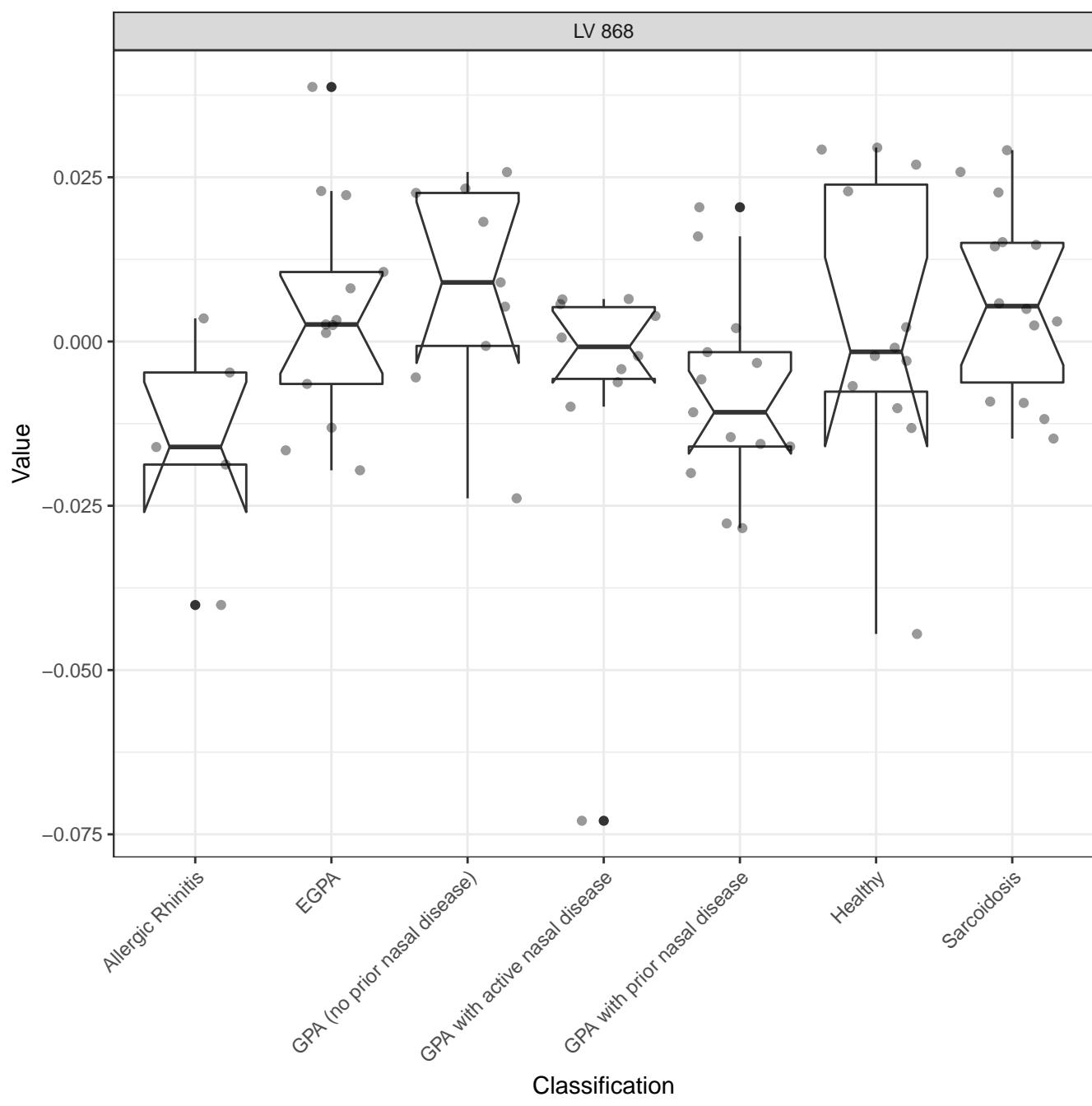
## 865,PID\_FANCONI\_PATHWAY

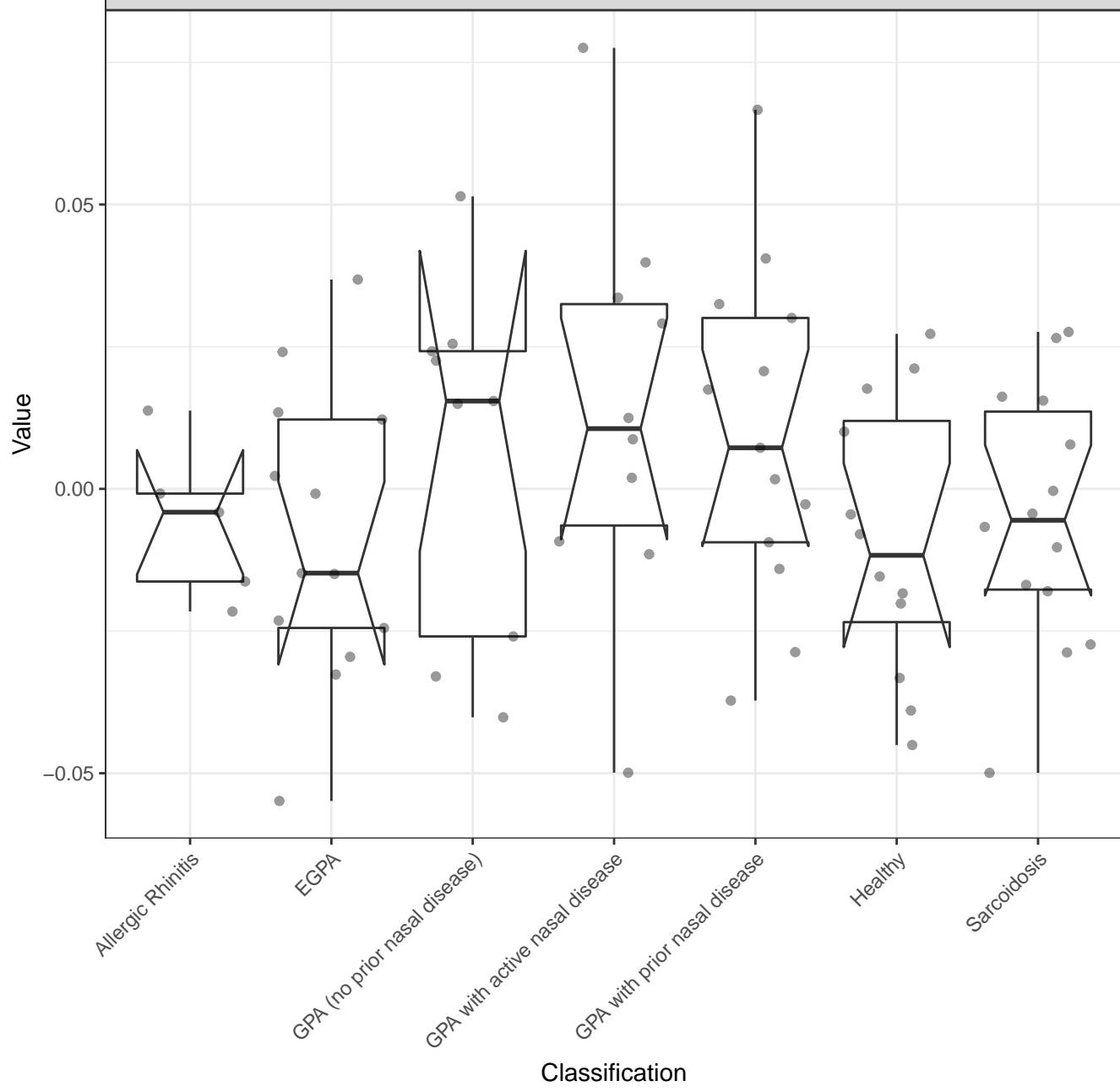


Value









Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

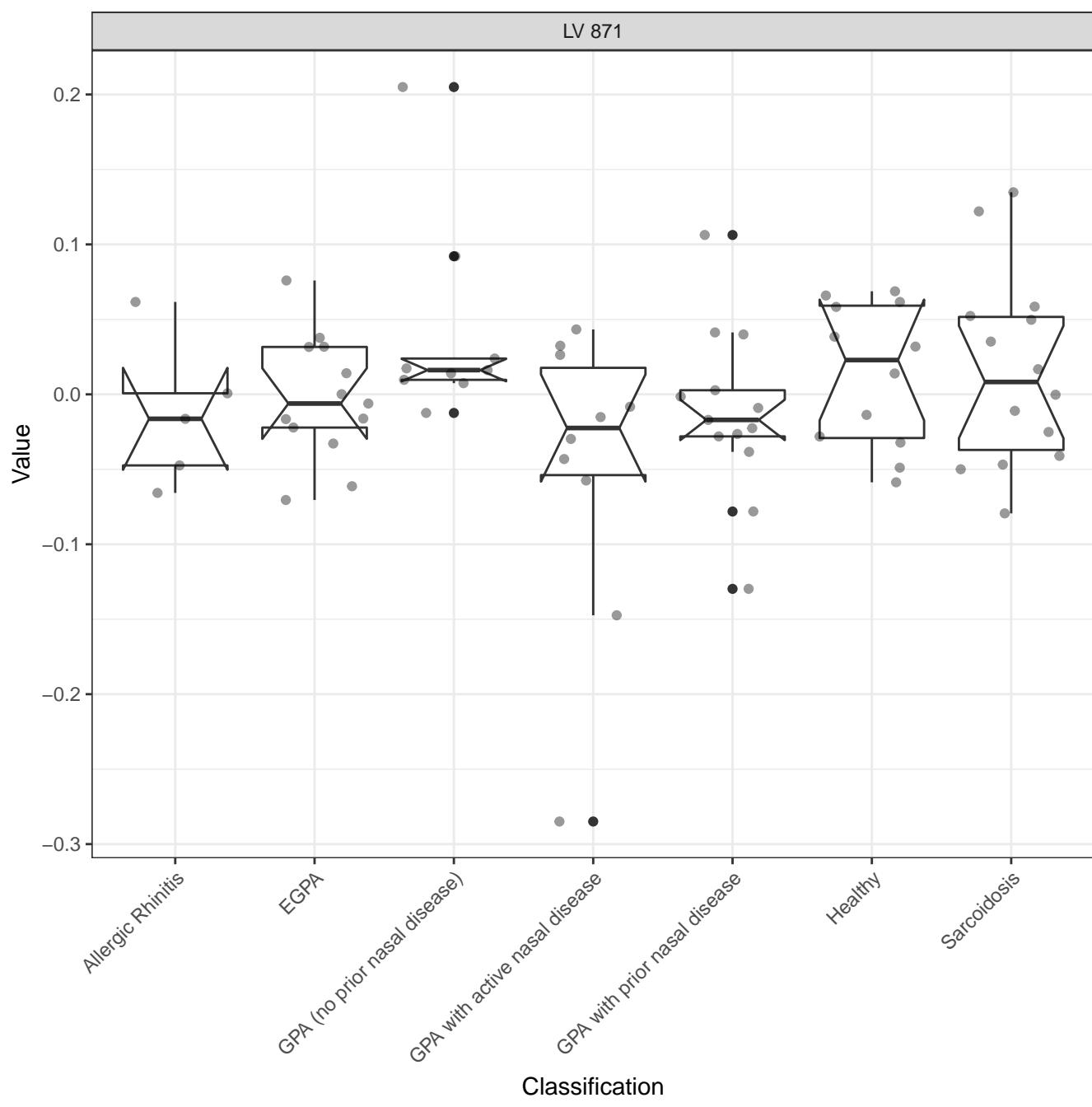
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.02

0.00

-0.02

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 873

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

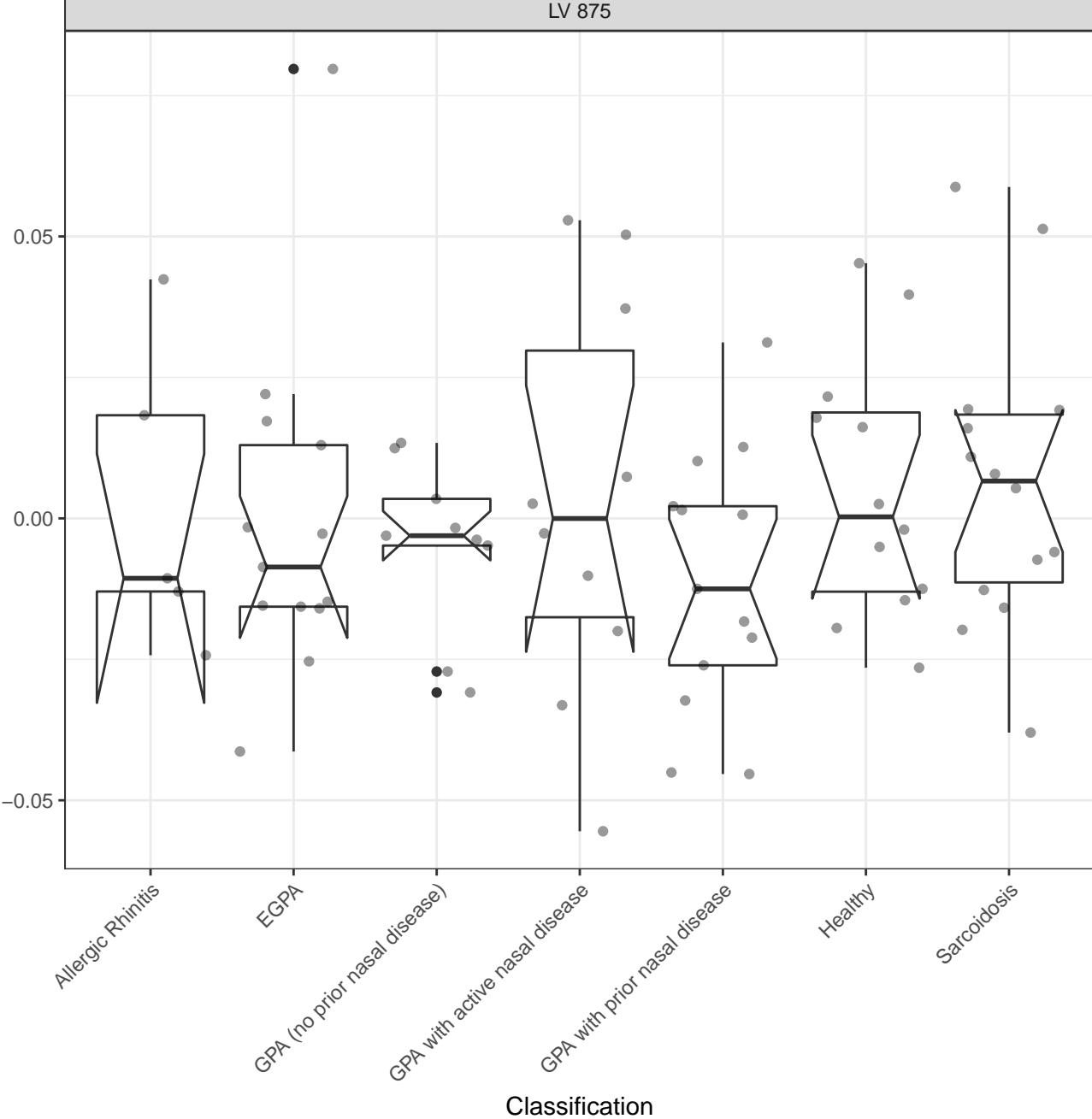
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 881,REACTOME\_DNA\_STRAND\_ELONGATION

Value

0.4

0.2

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

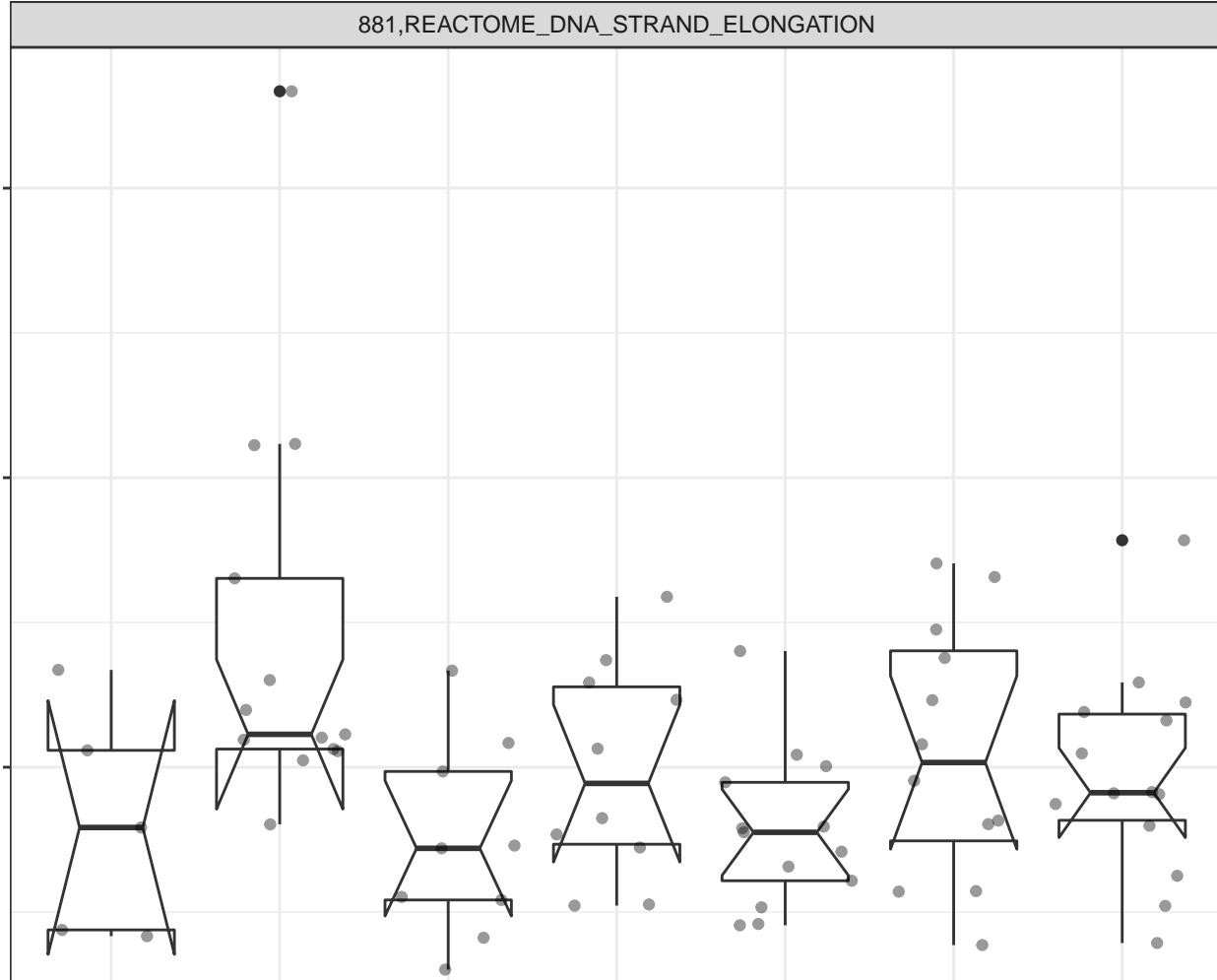
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

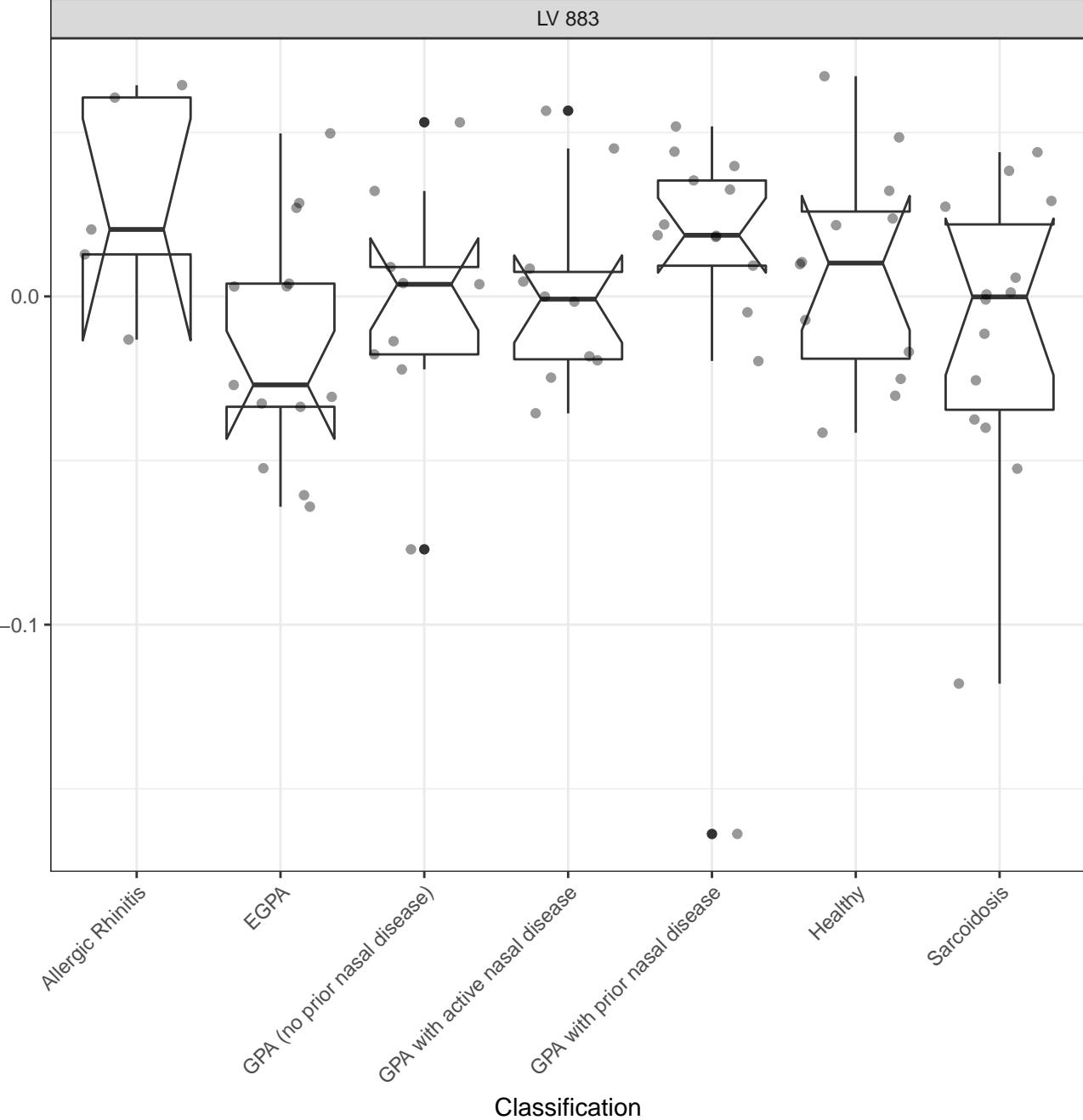
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

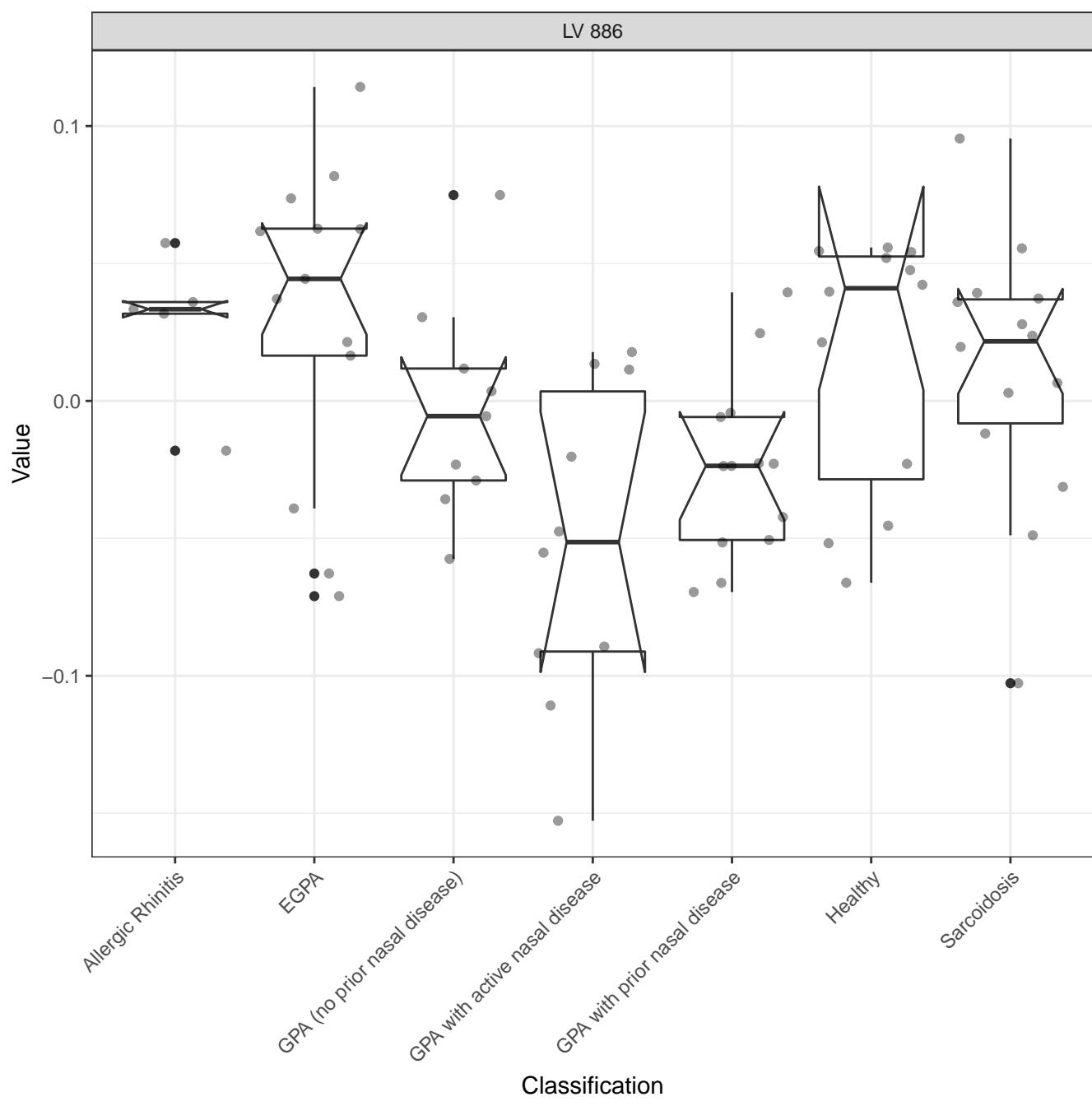
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

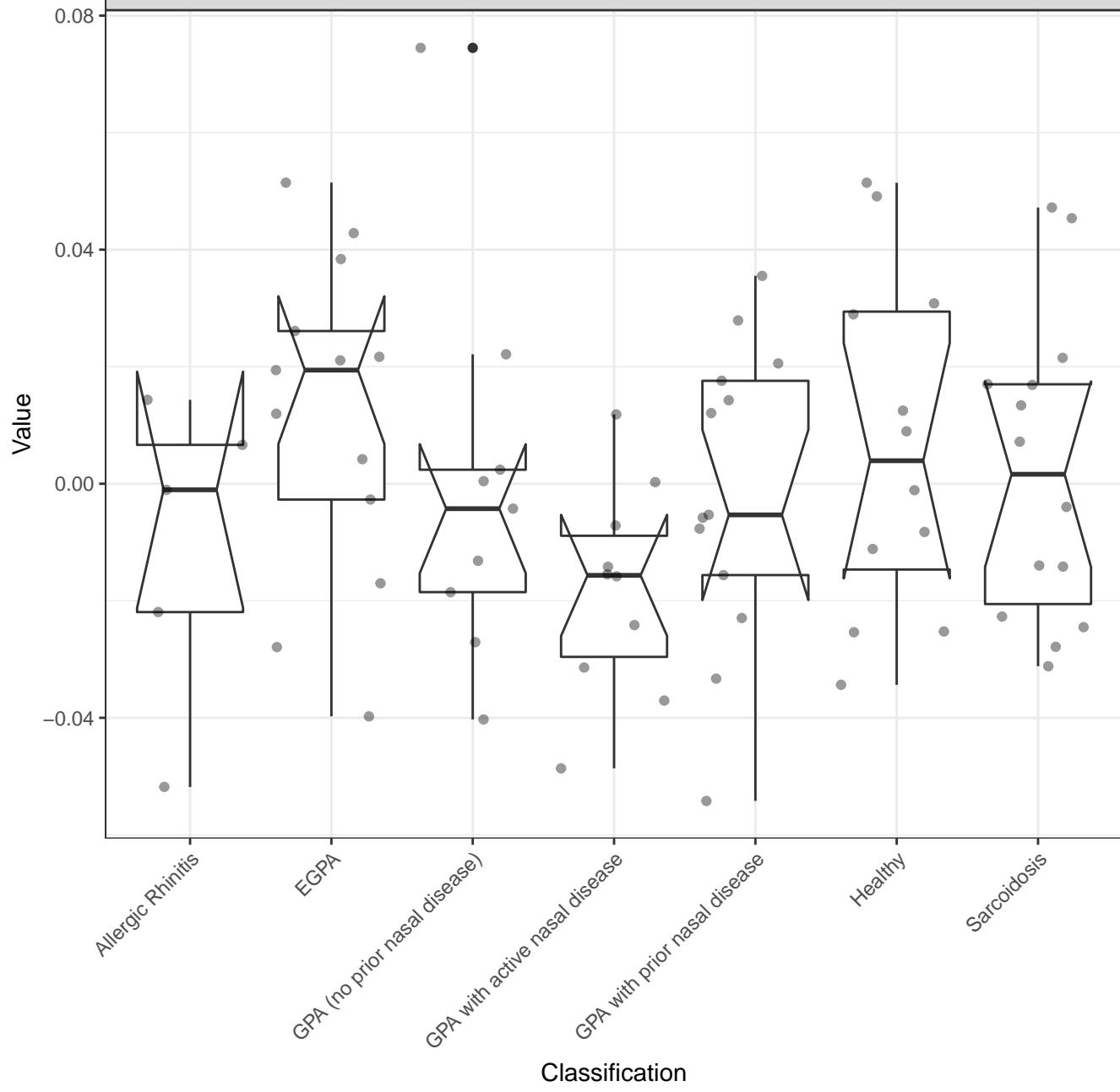
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

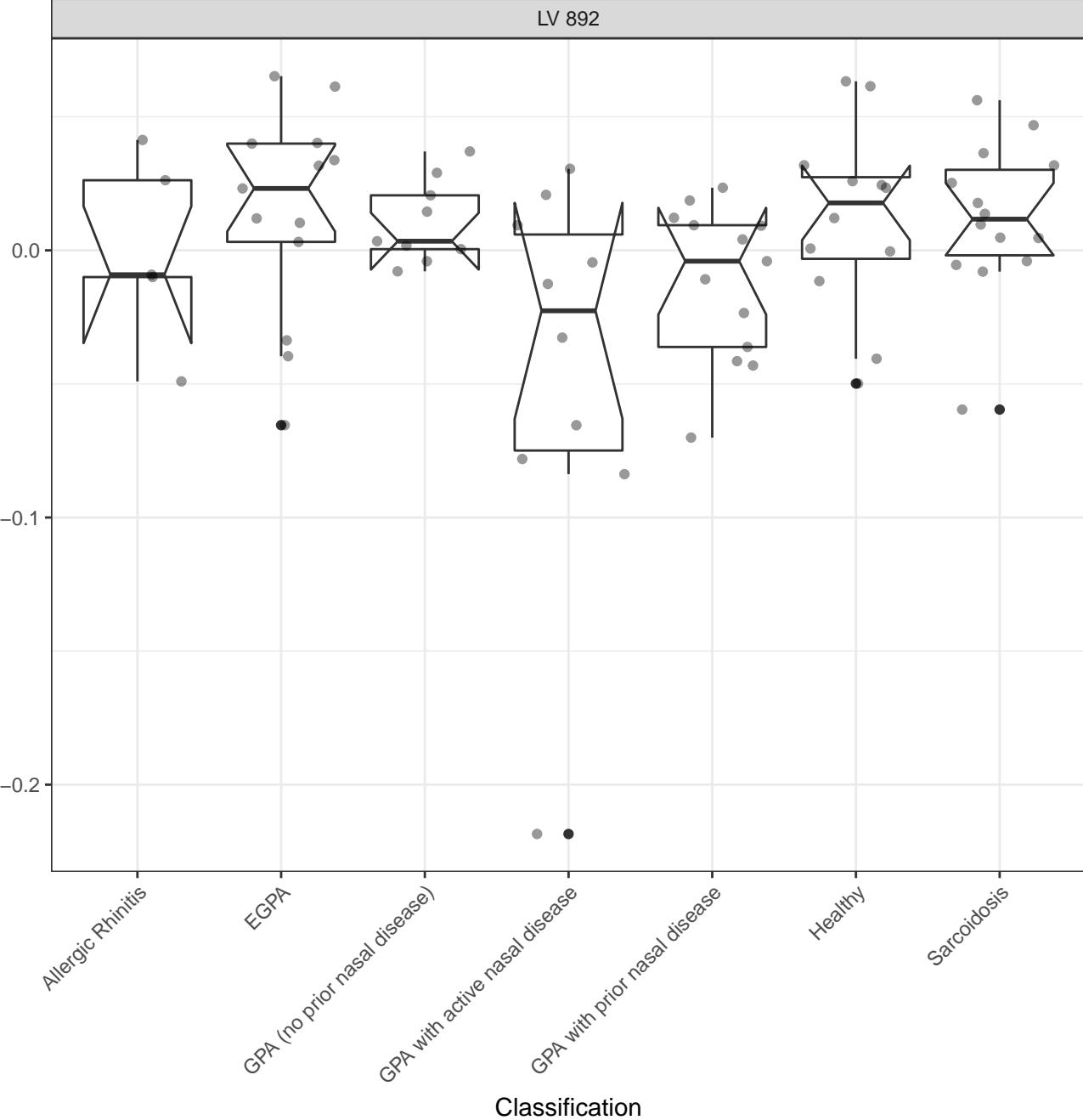
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

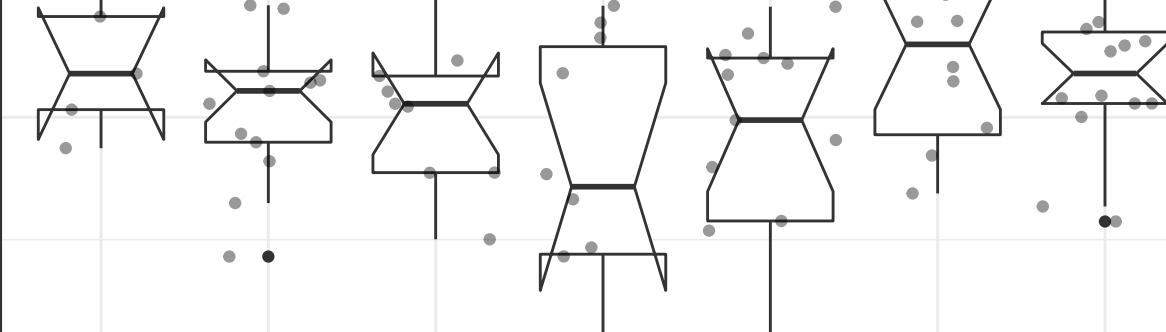
Classification

Value

-0.05  
-0.10  
-0.15

Allergic Rhinitis      EGPA      GPA (no prior nasal disease)  
GPA with active nasal disease      GPA with prior nasal disease      Healthy      Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.2

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

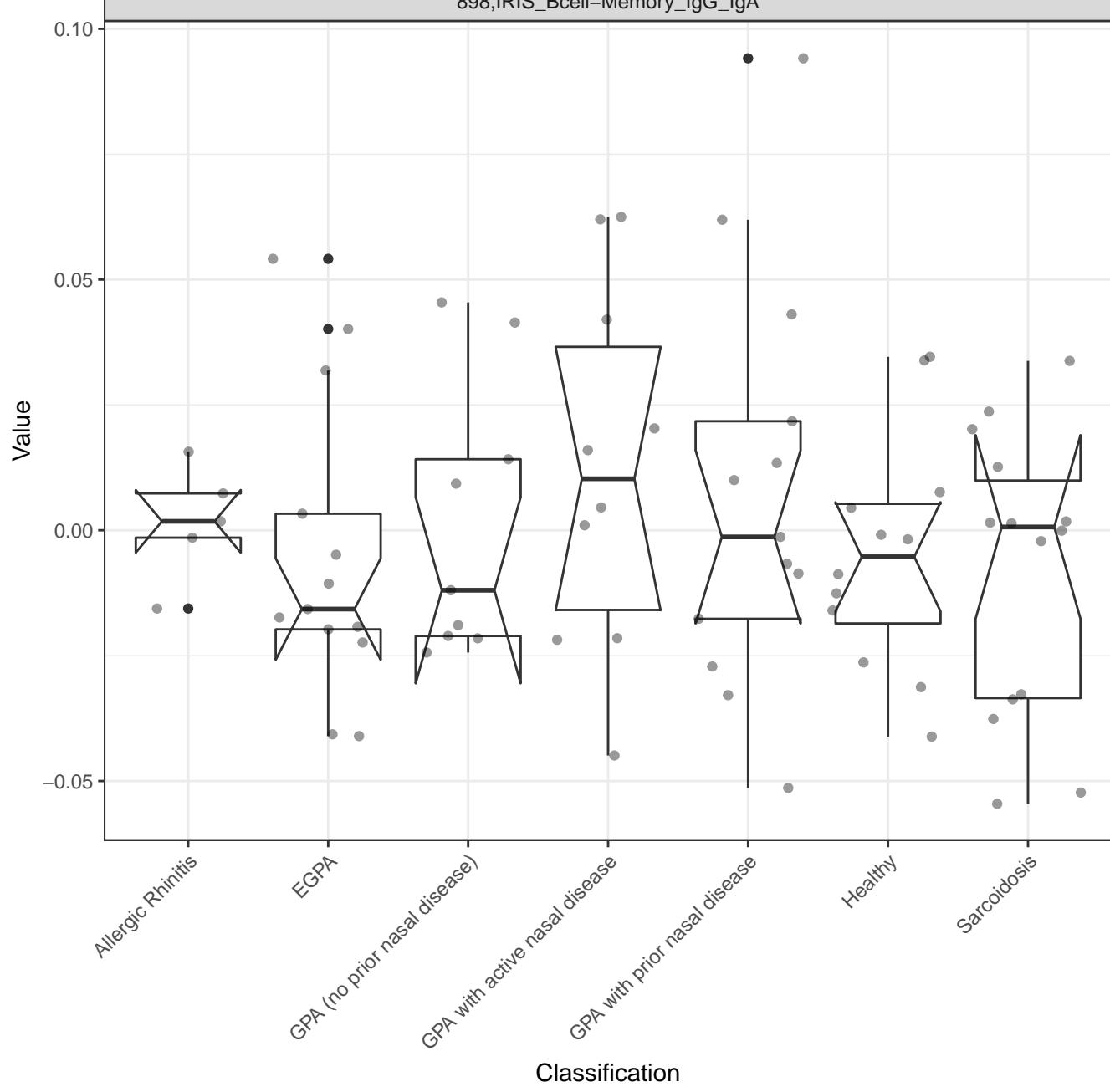
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.1

0.0

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.0

-0.2

-0.4

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.2

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

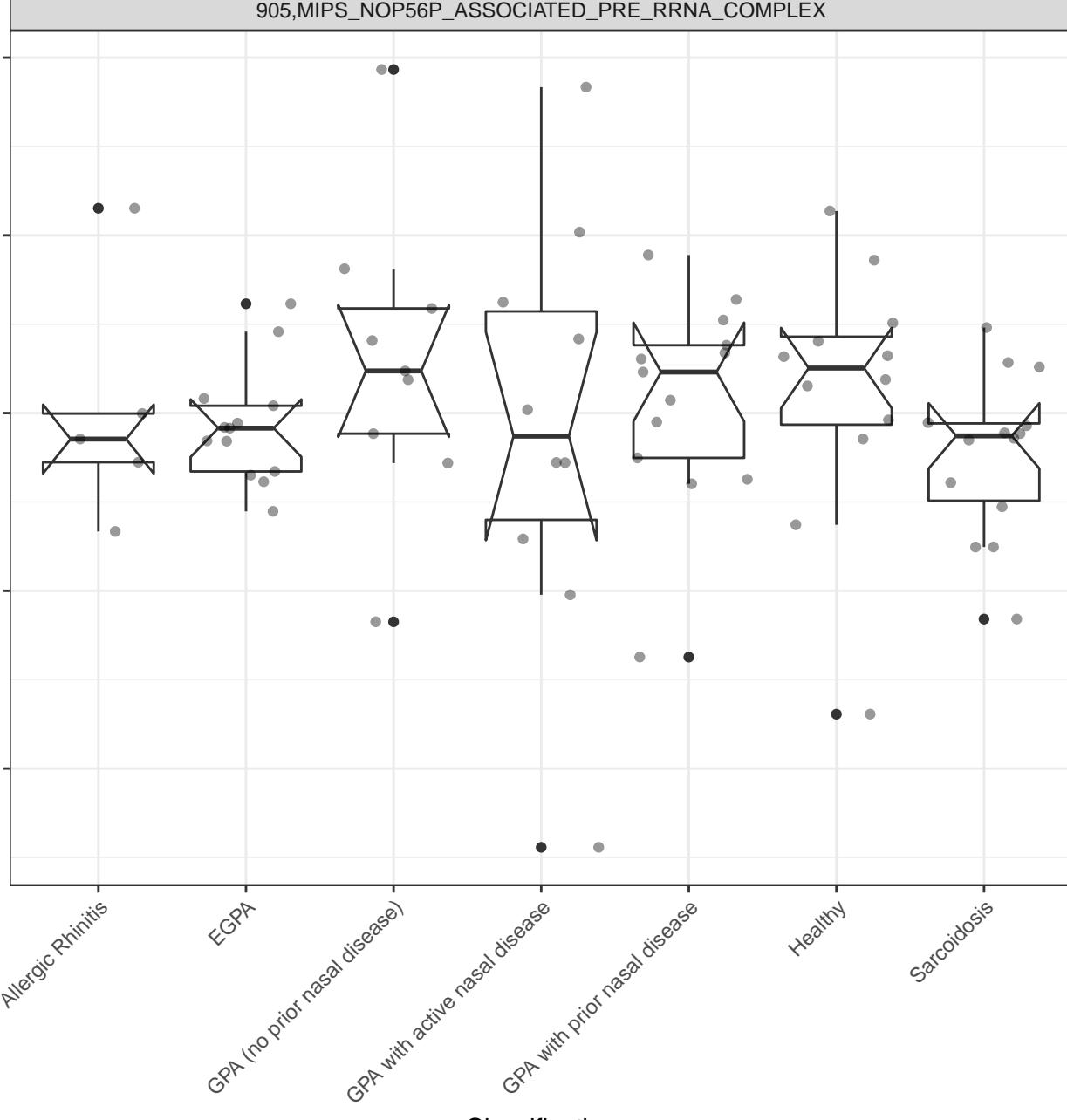
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.01

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

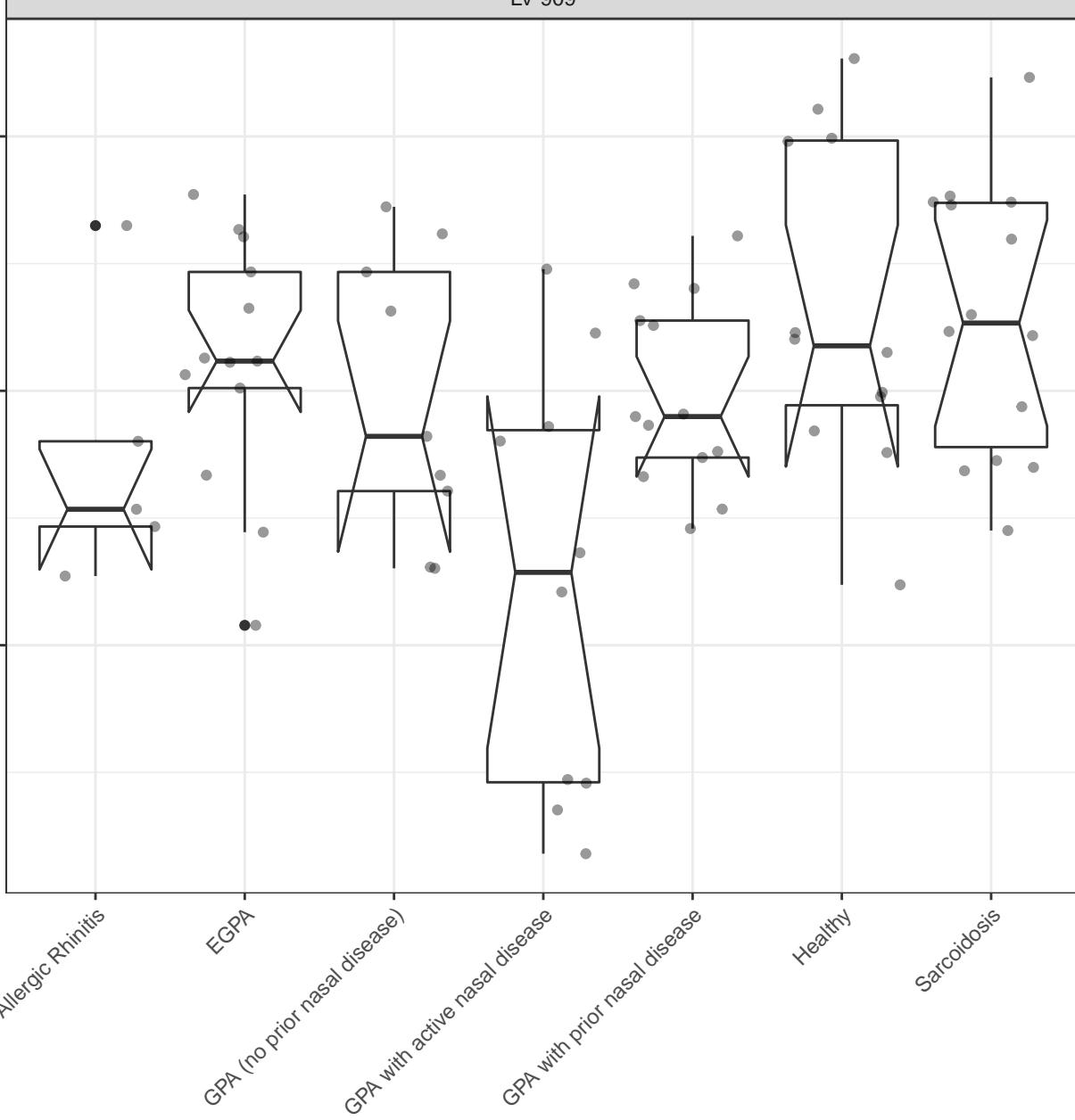
GPA with active nasal disease

GPA with prior nasal disease

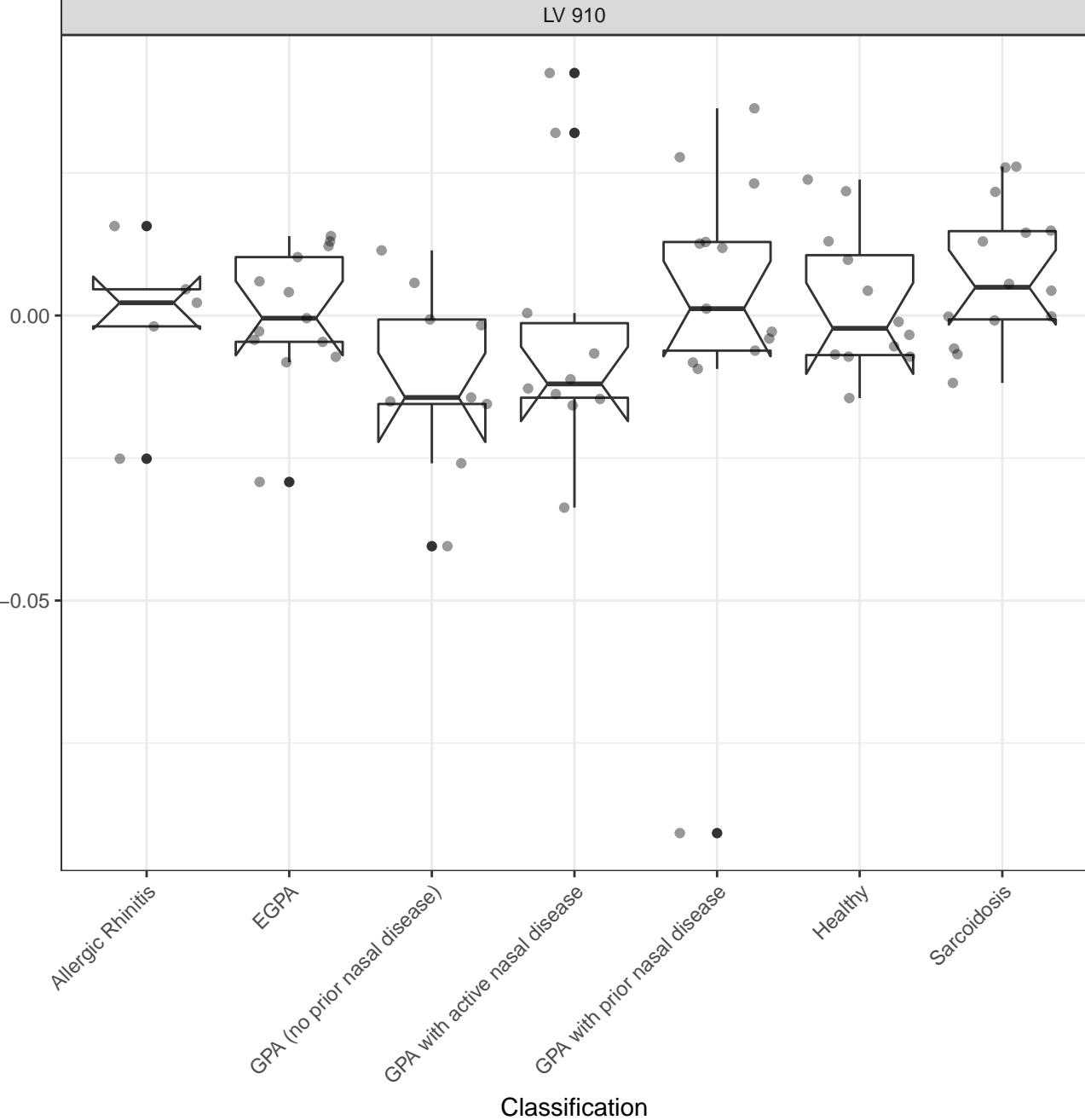
Healthy

Sarcoidosis

Classification



Value



Value

0.10

0.05

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

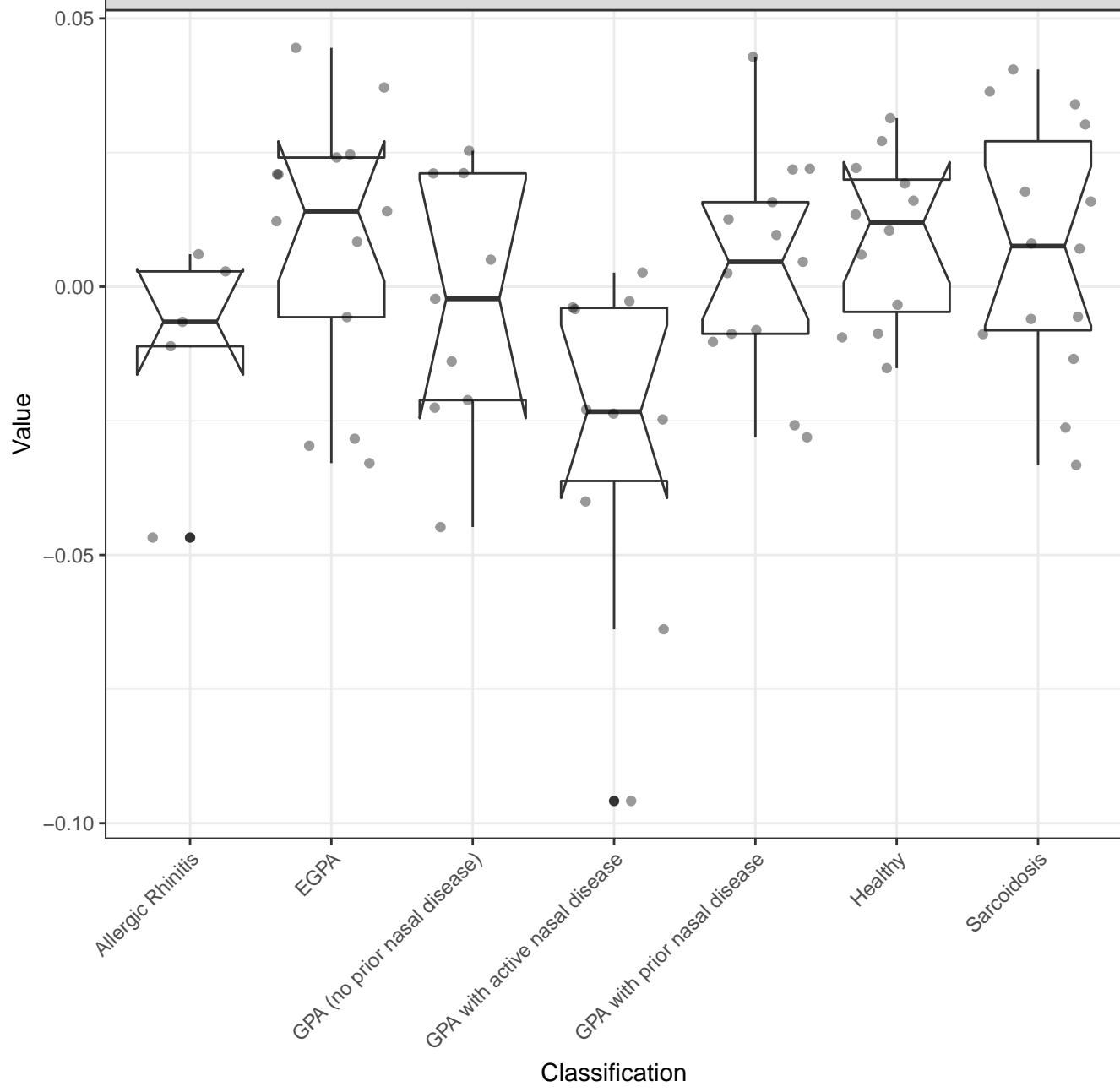
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 914



## 915,MIPS\_SPLICEOSOME

Value

0.1

0.0

-0.1

-0.2

-0.3

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

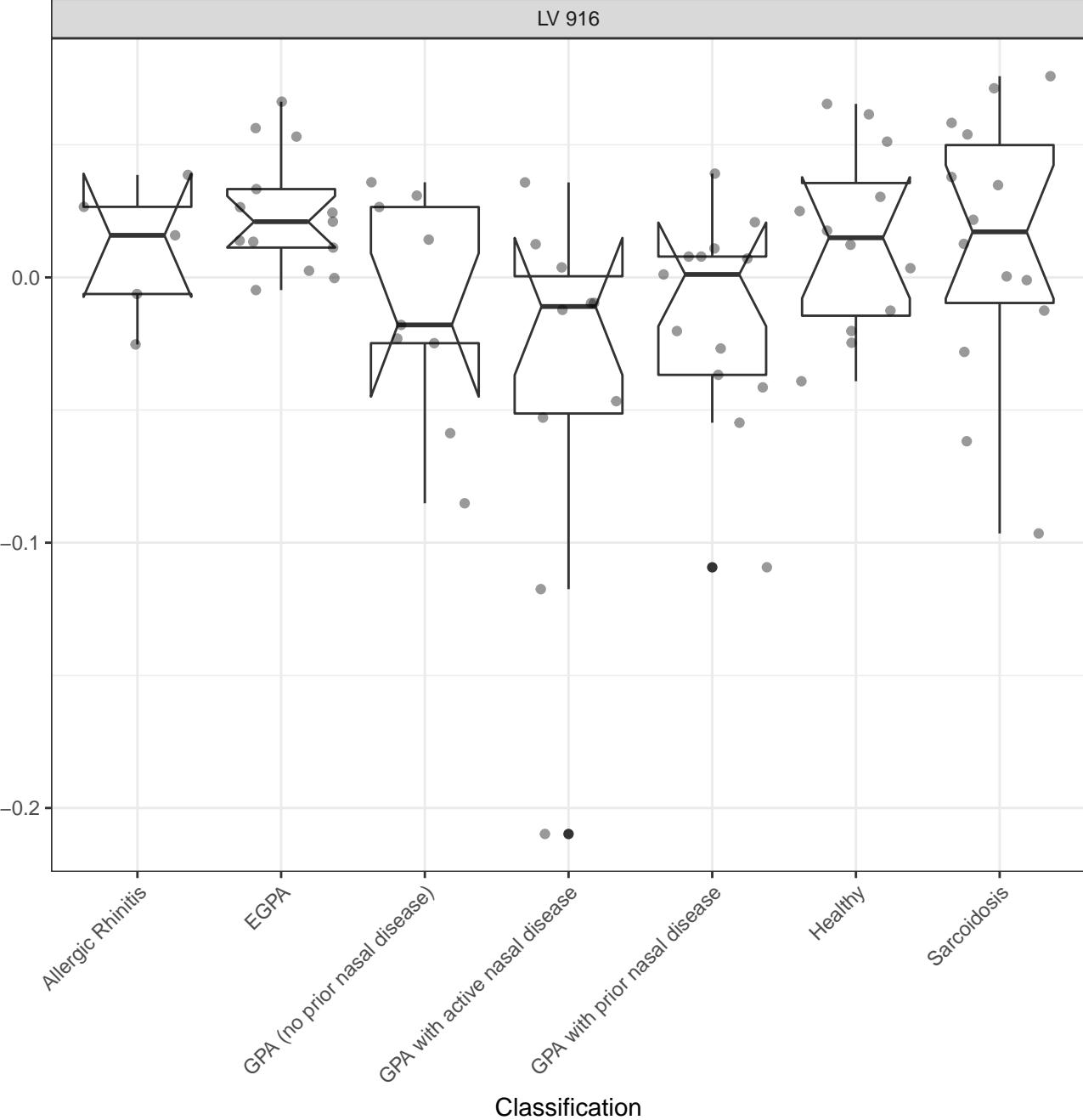
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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

Value

0.05  
0.00  
-0.05  
-0.10  
-0.15  
-0.20

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

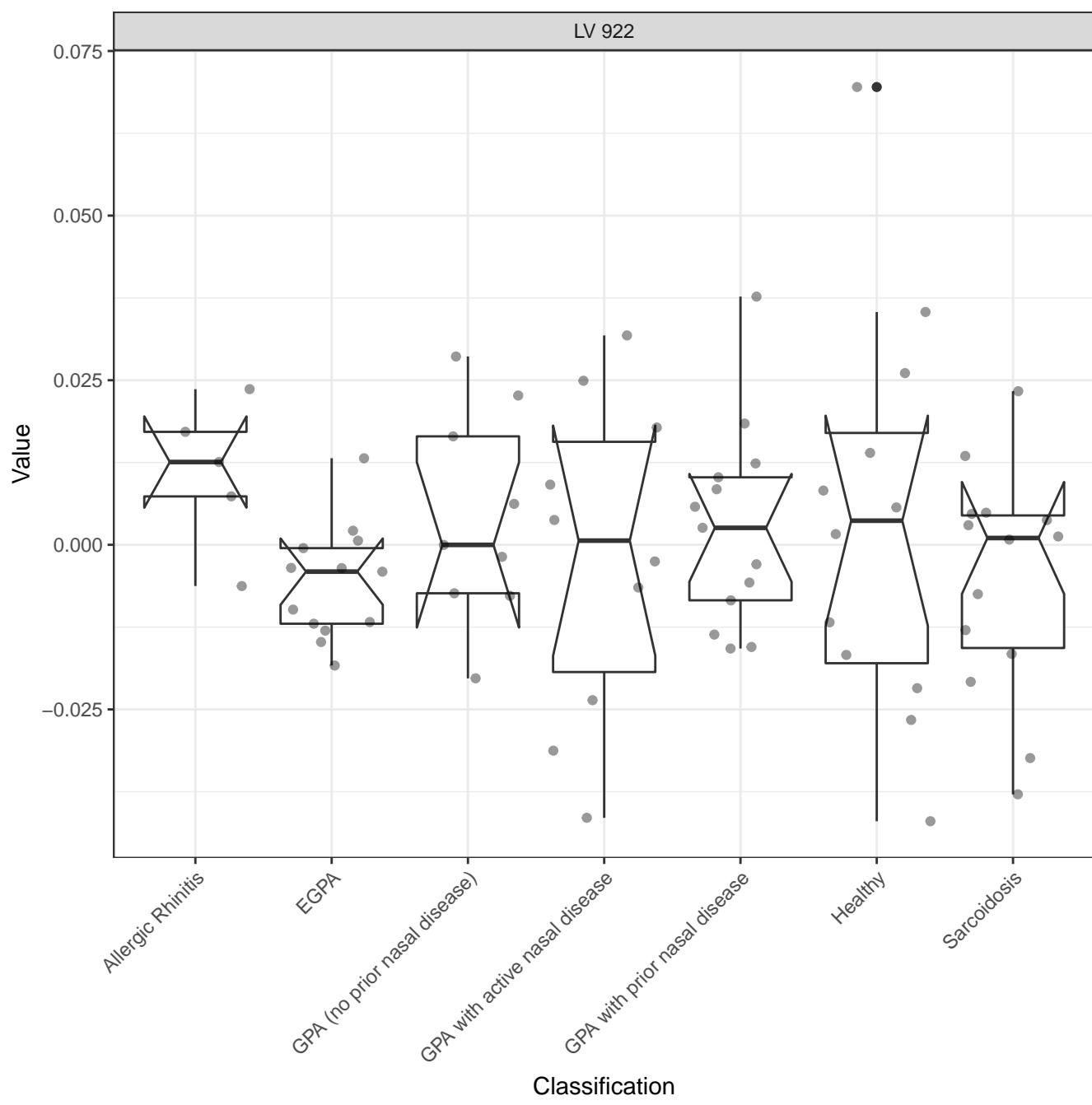
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

-0.2

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 927

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15  
0.10  
0.05  
0.00  
-0.05  
-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

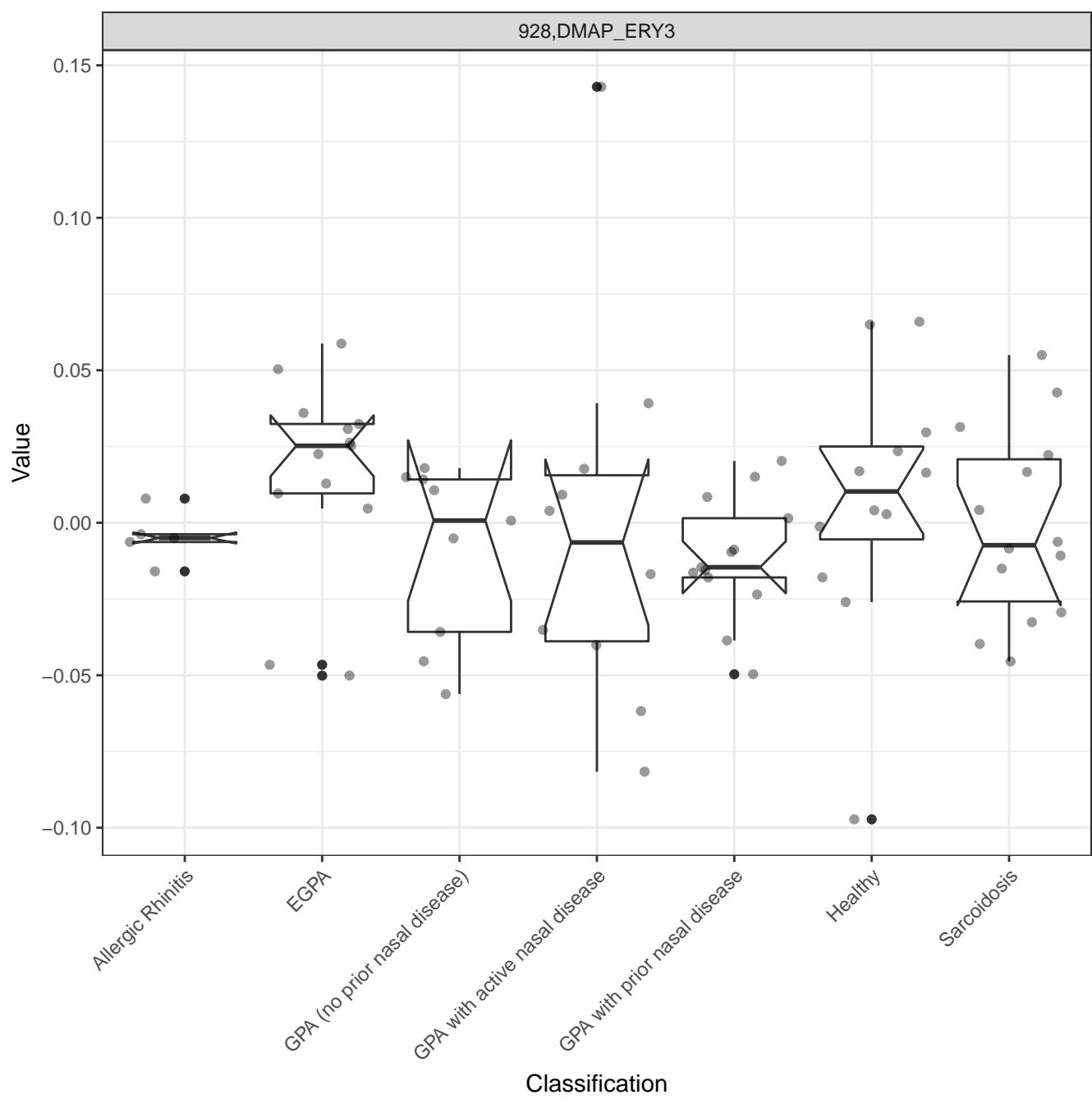
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

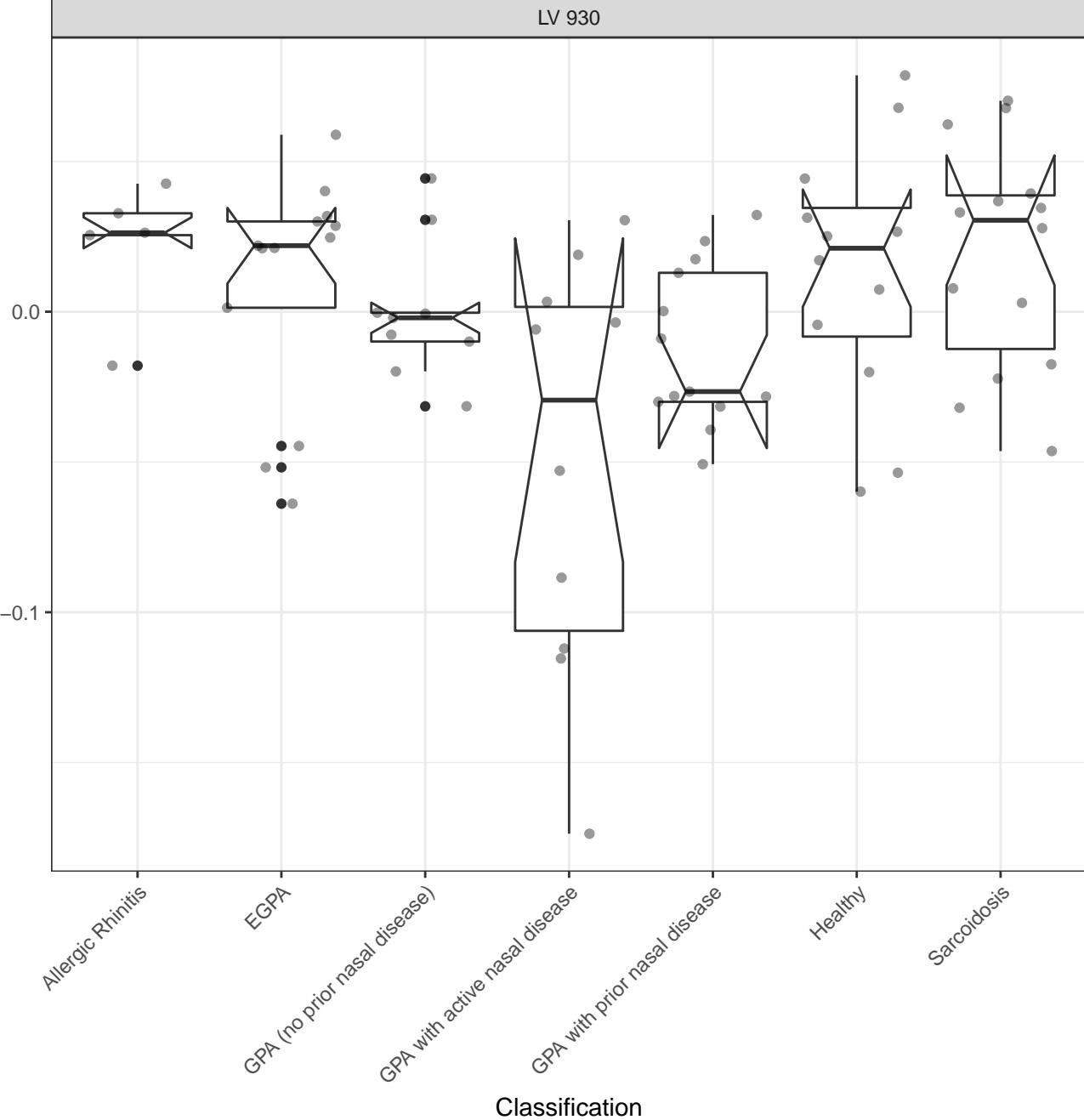
GPA with prior nasal disease

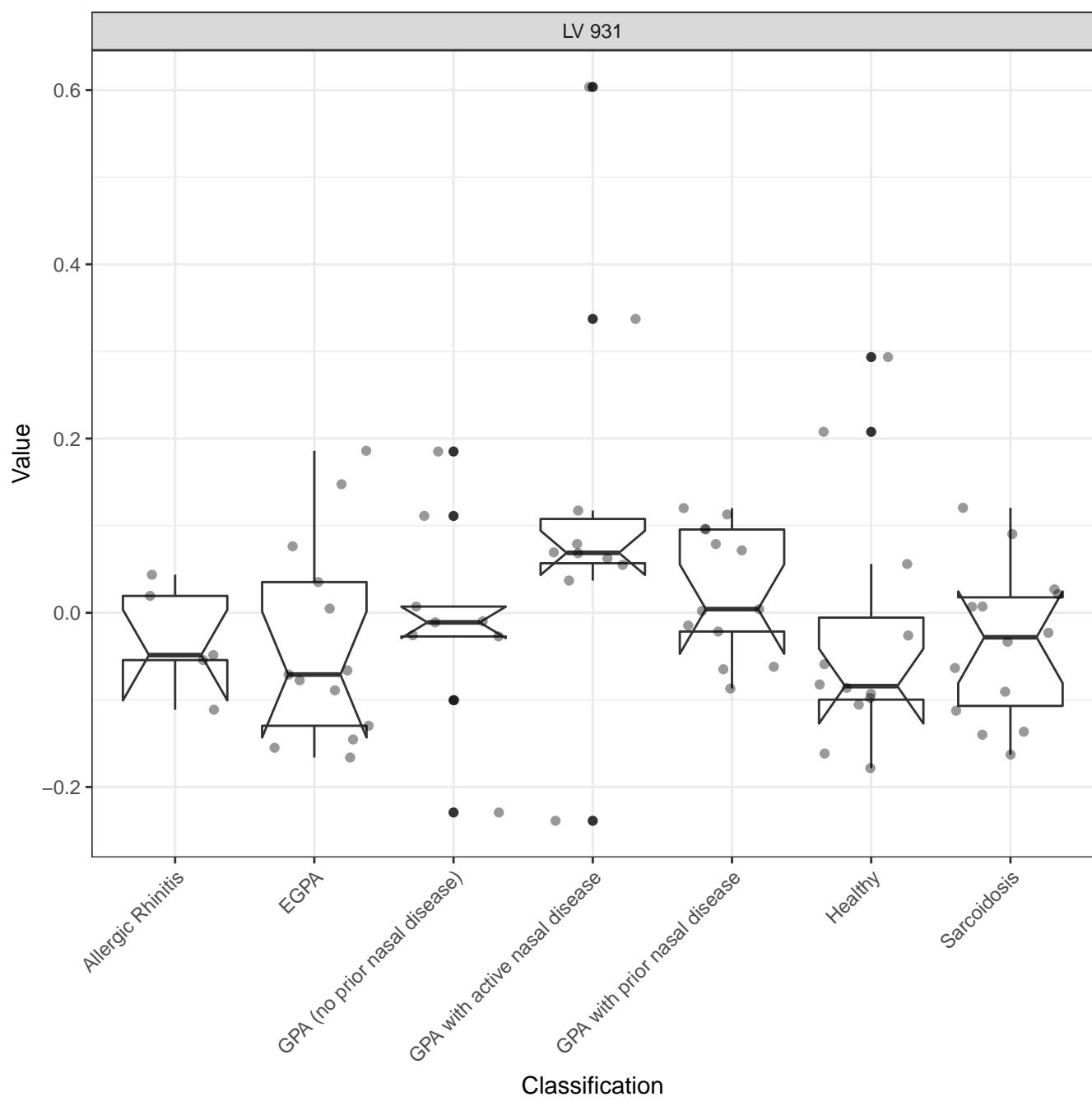
Healthy

Sarcoidosis

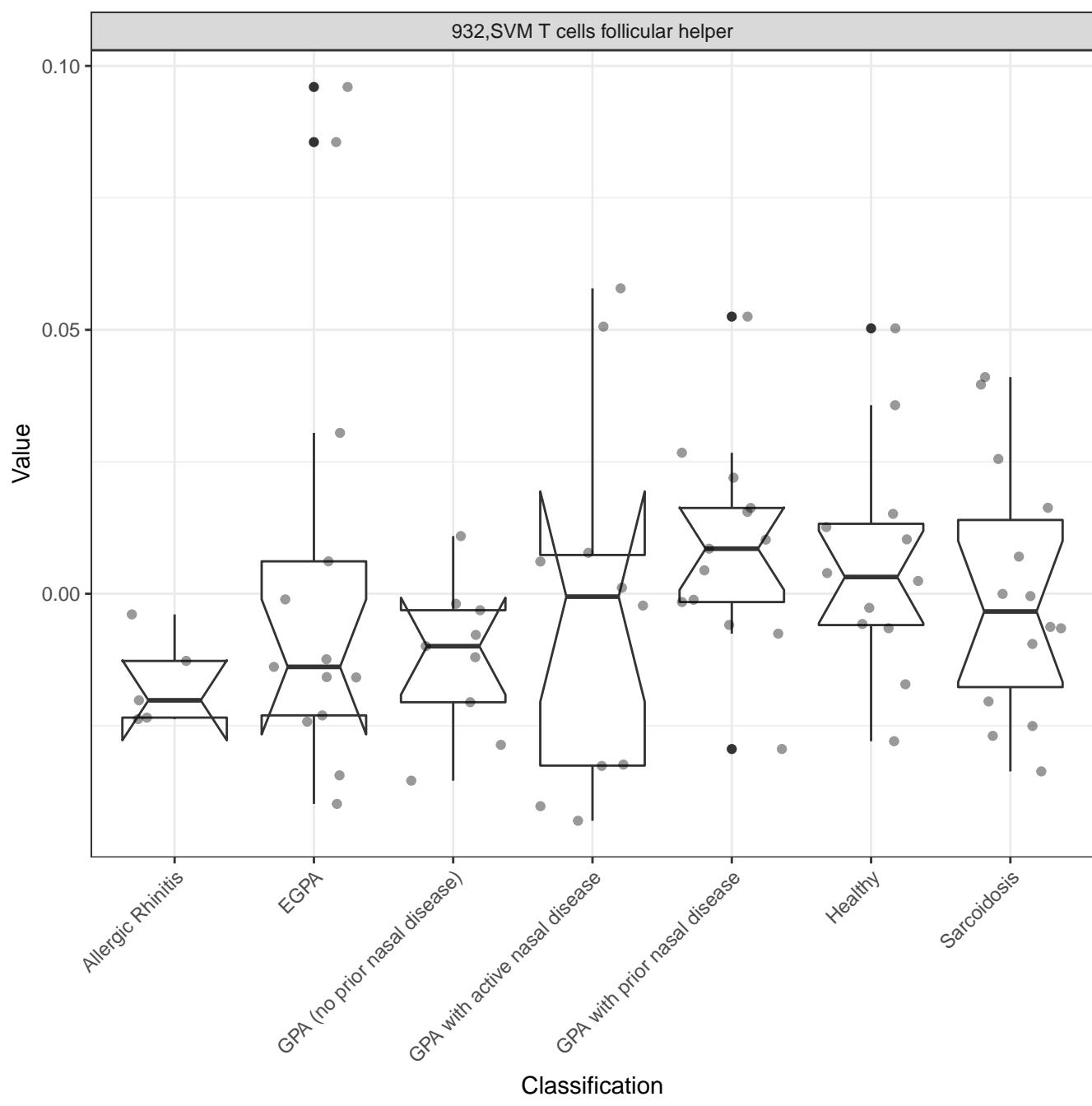
Classification

Value





## 932,SVM T cells follicular helper



LV 933

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

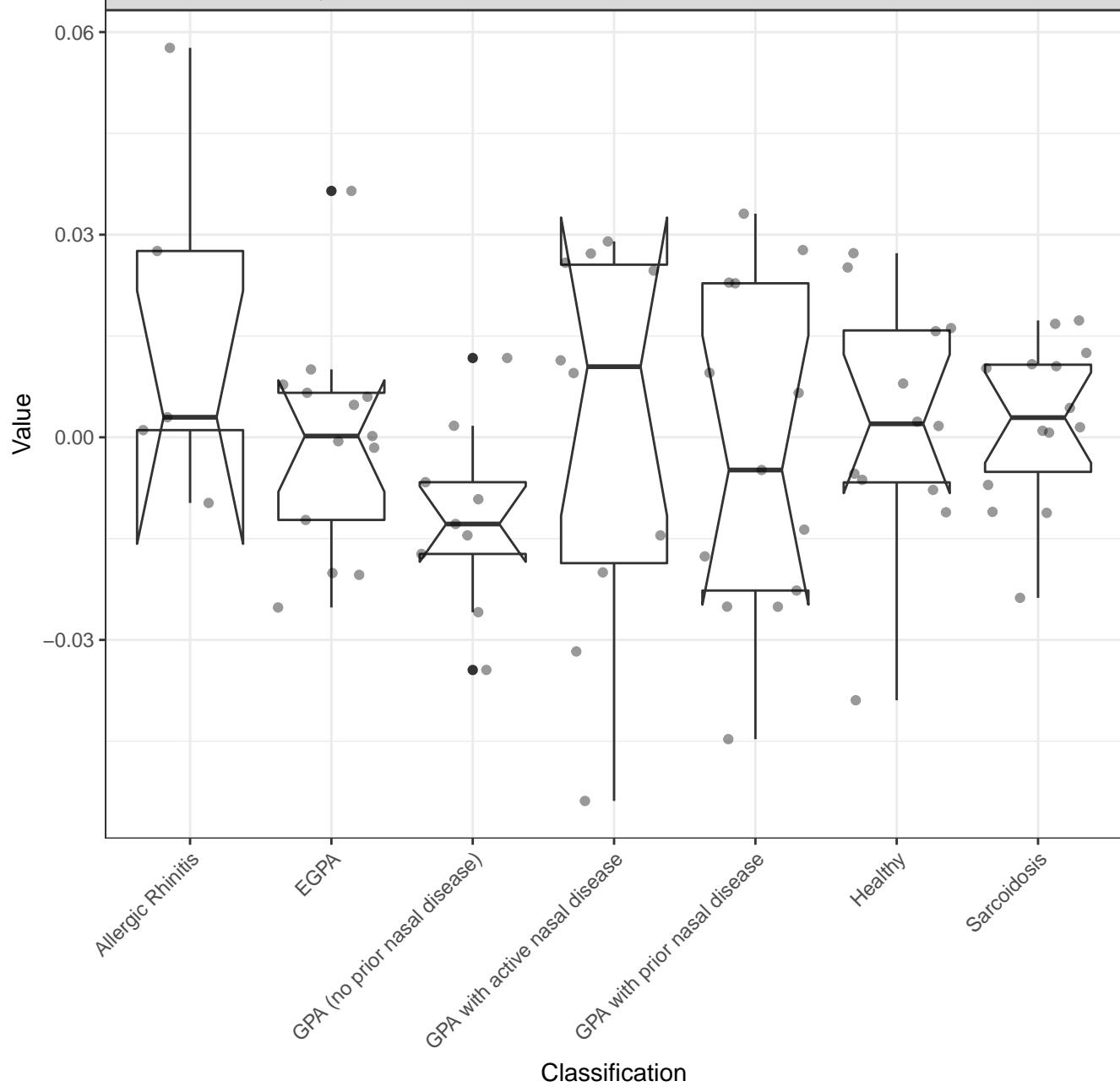
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

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



LV 936

Value

0.05

0.01

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

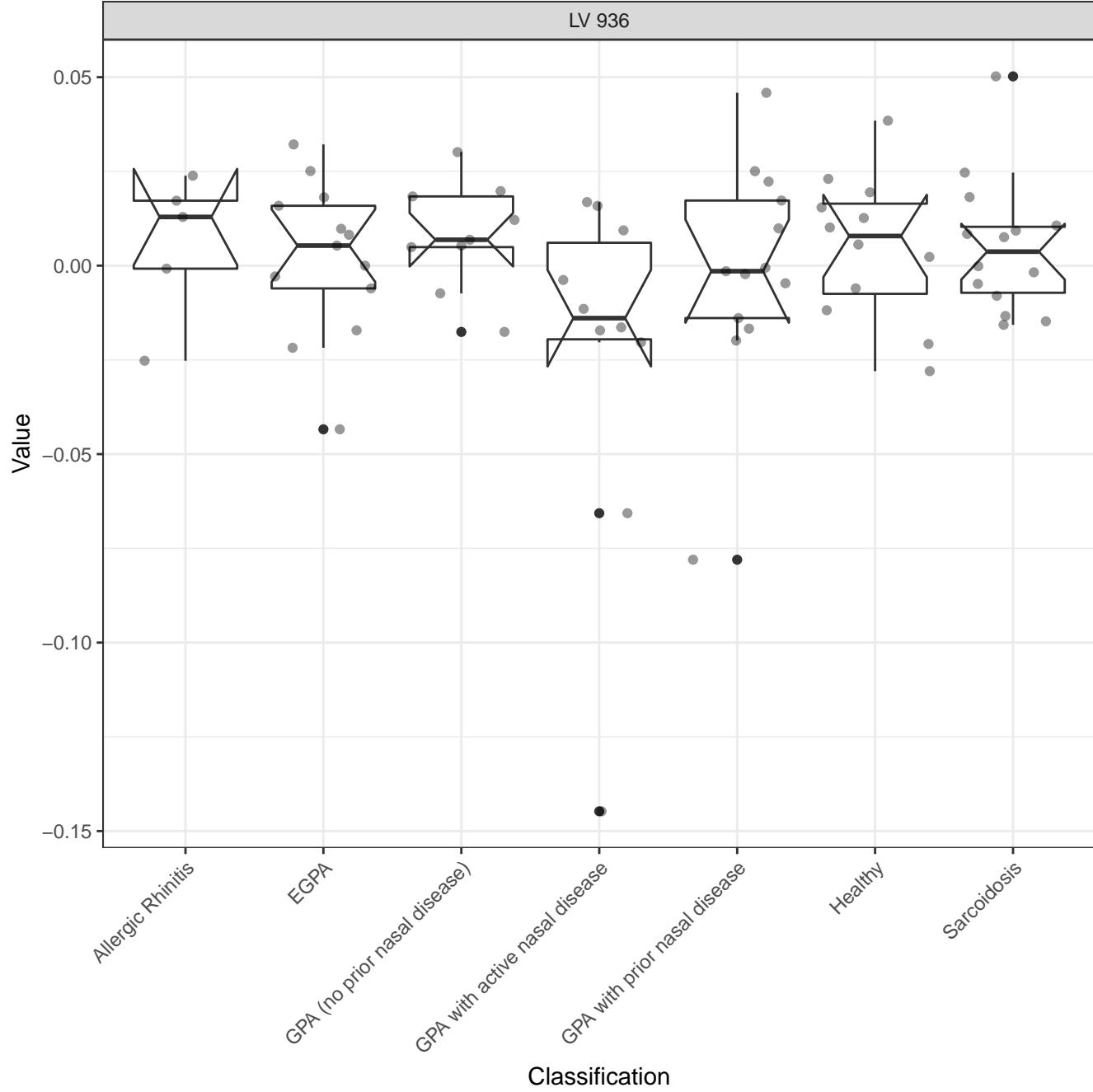
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.4

0.3

0.2

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.06

0.03

0.00

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

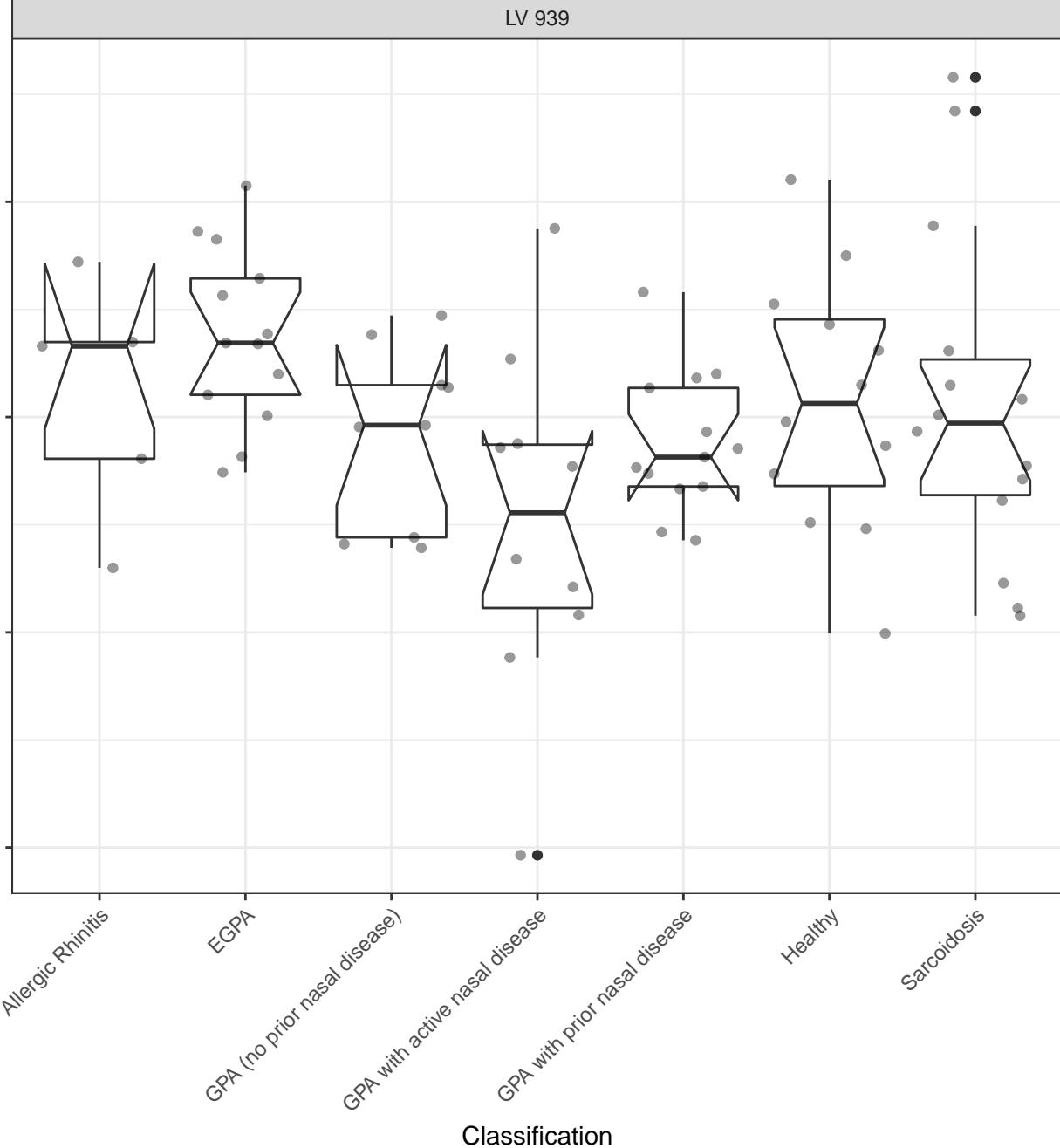
GPA with prior nasal disease

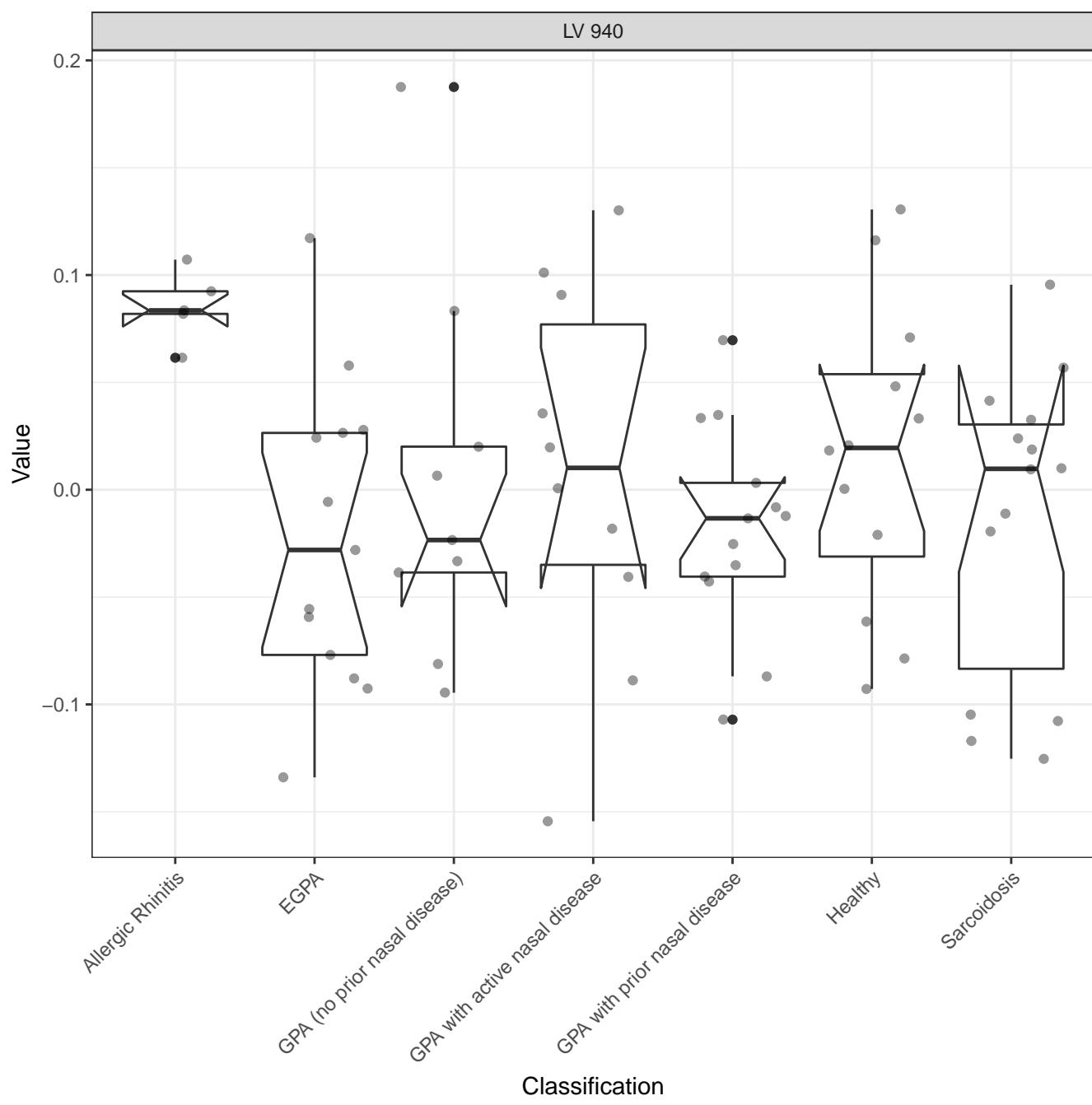
Healthy

Sarcoidosis

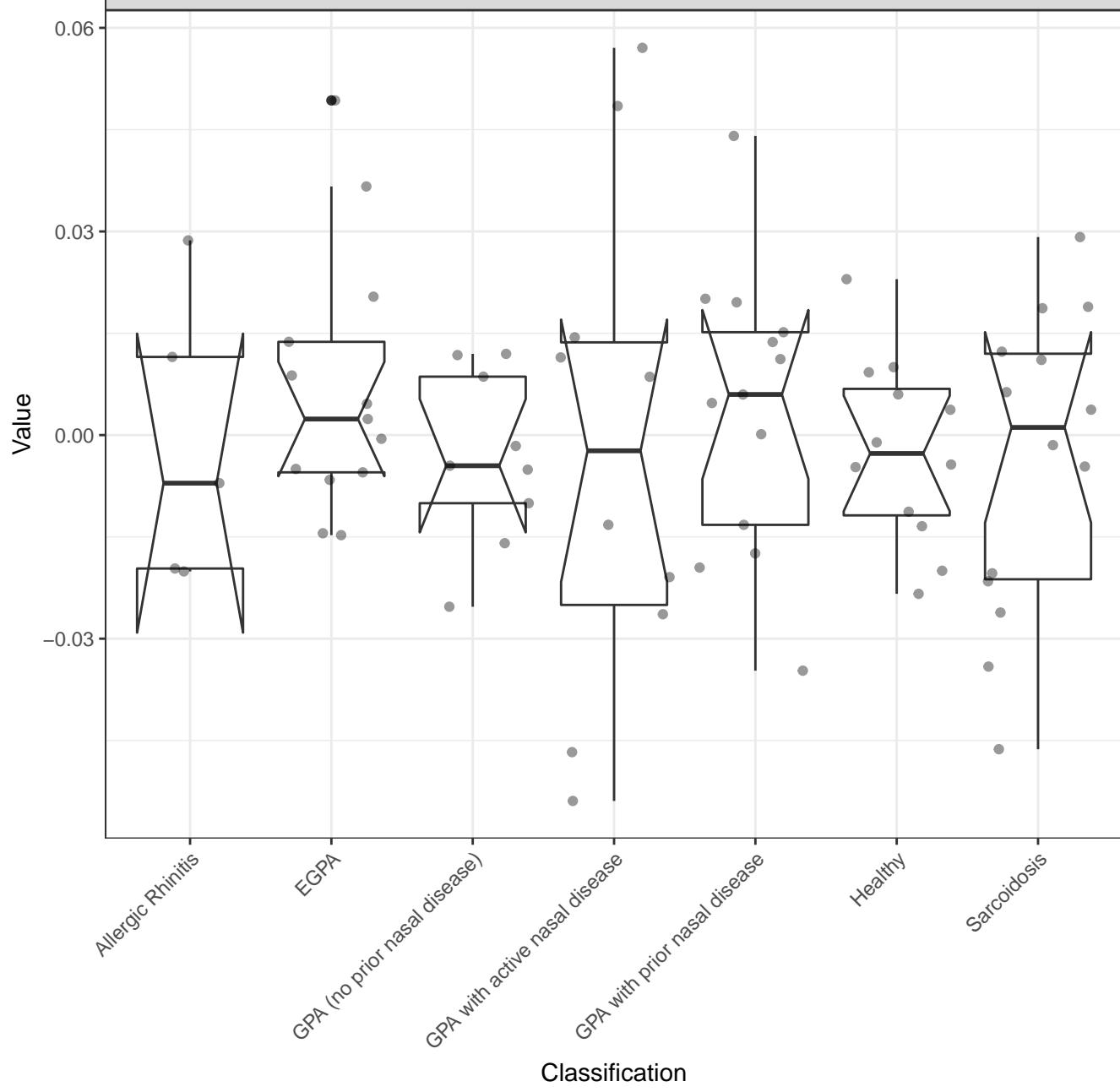
Classification

Value





LV 941



## 942,SVM T cells CD4 memory activated

Value

0.10

0.05

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.04

0.00

-0.04

-0.08

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

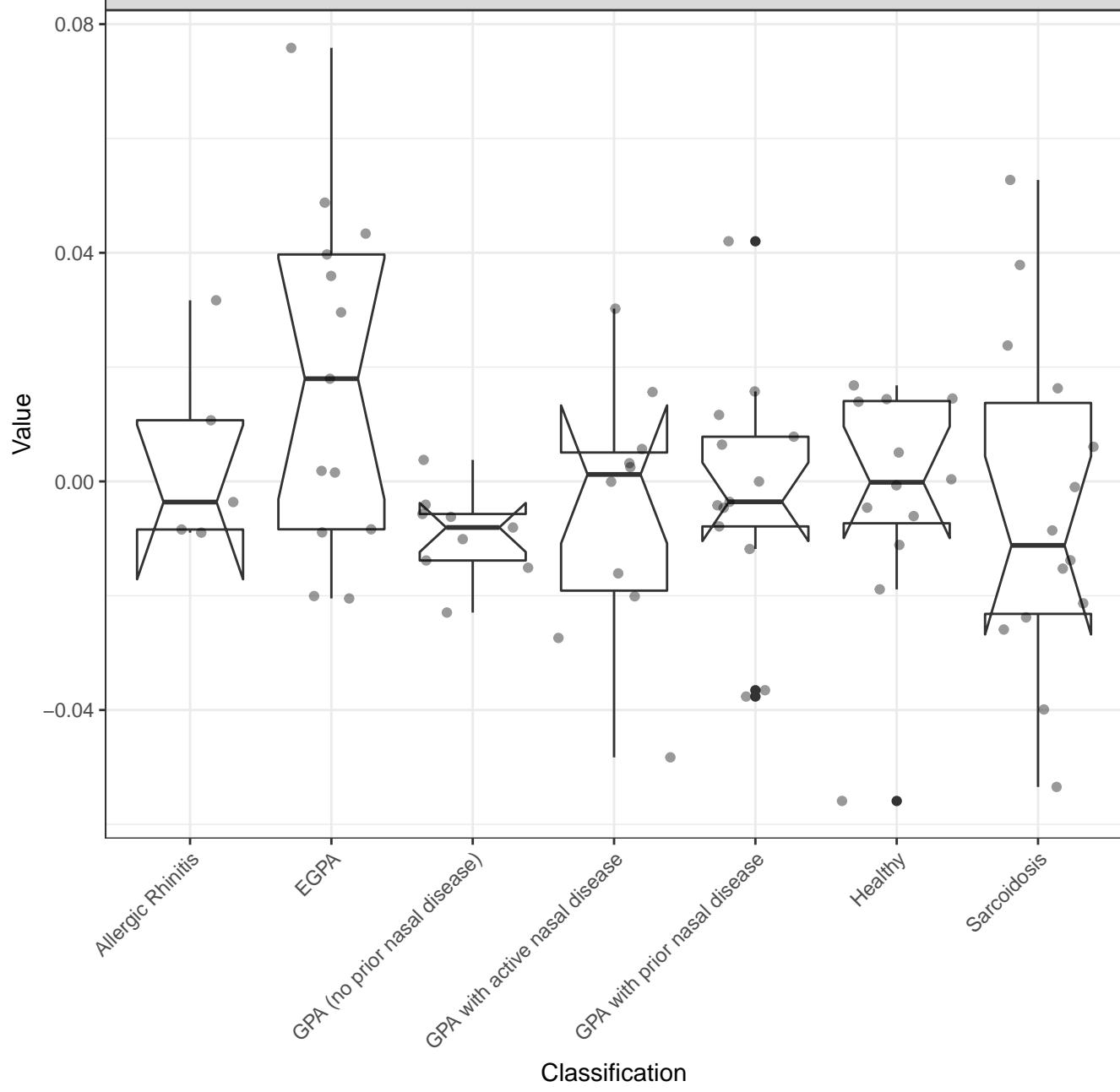
GPA with prior nasal disease

Healthy

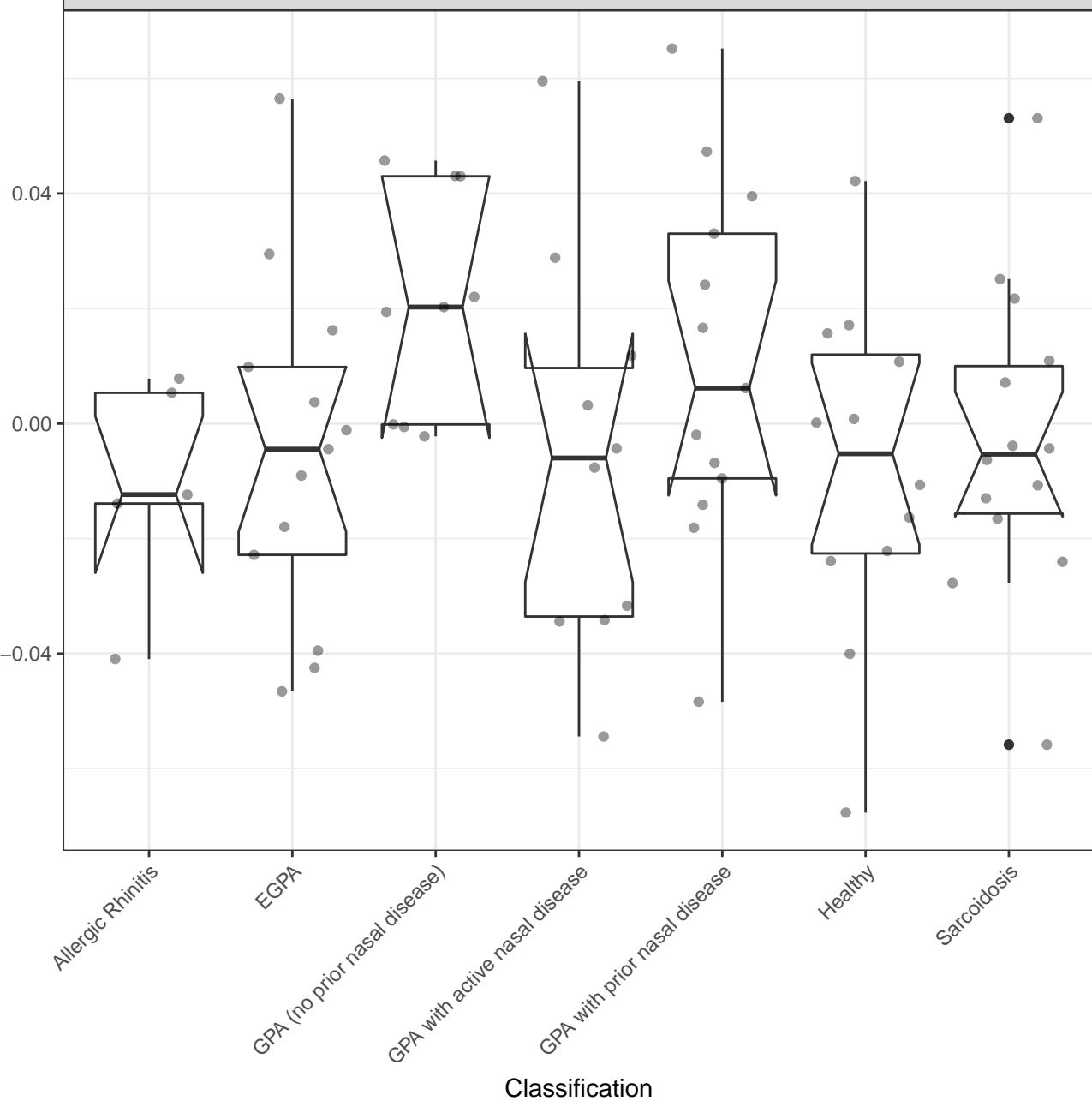
Sarcoidosis

Classification

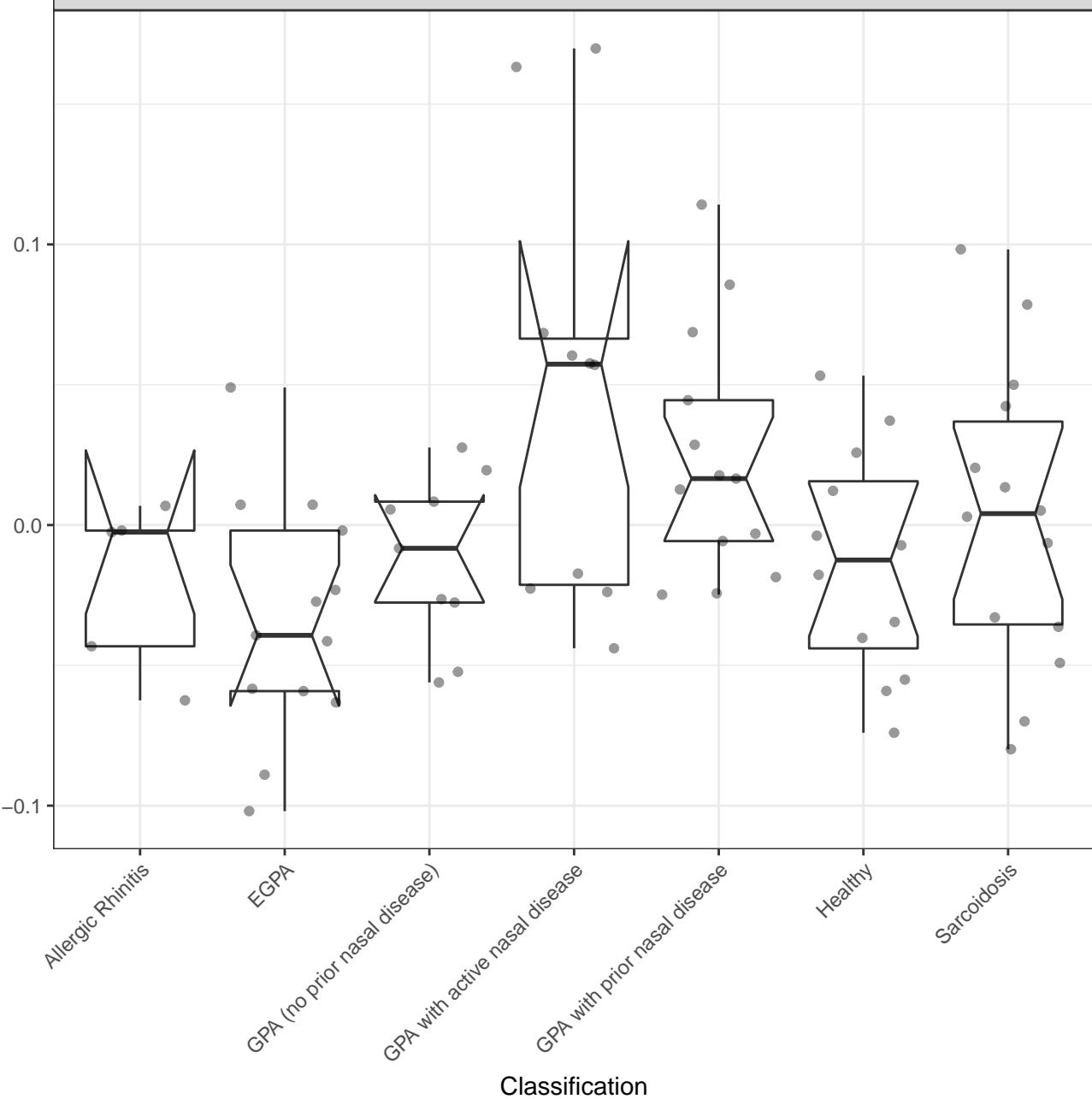
LV 946

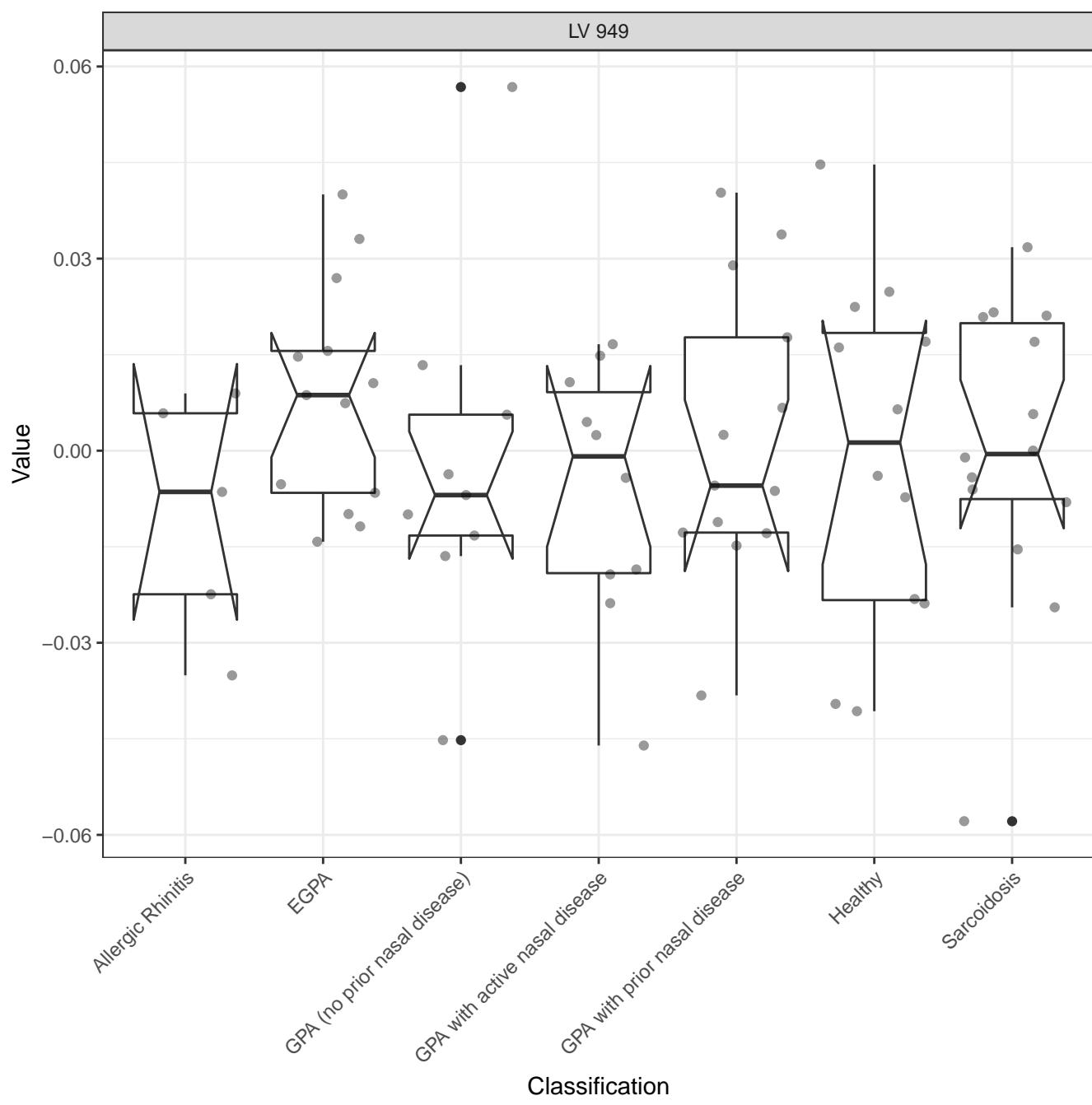


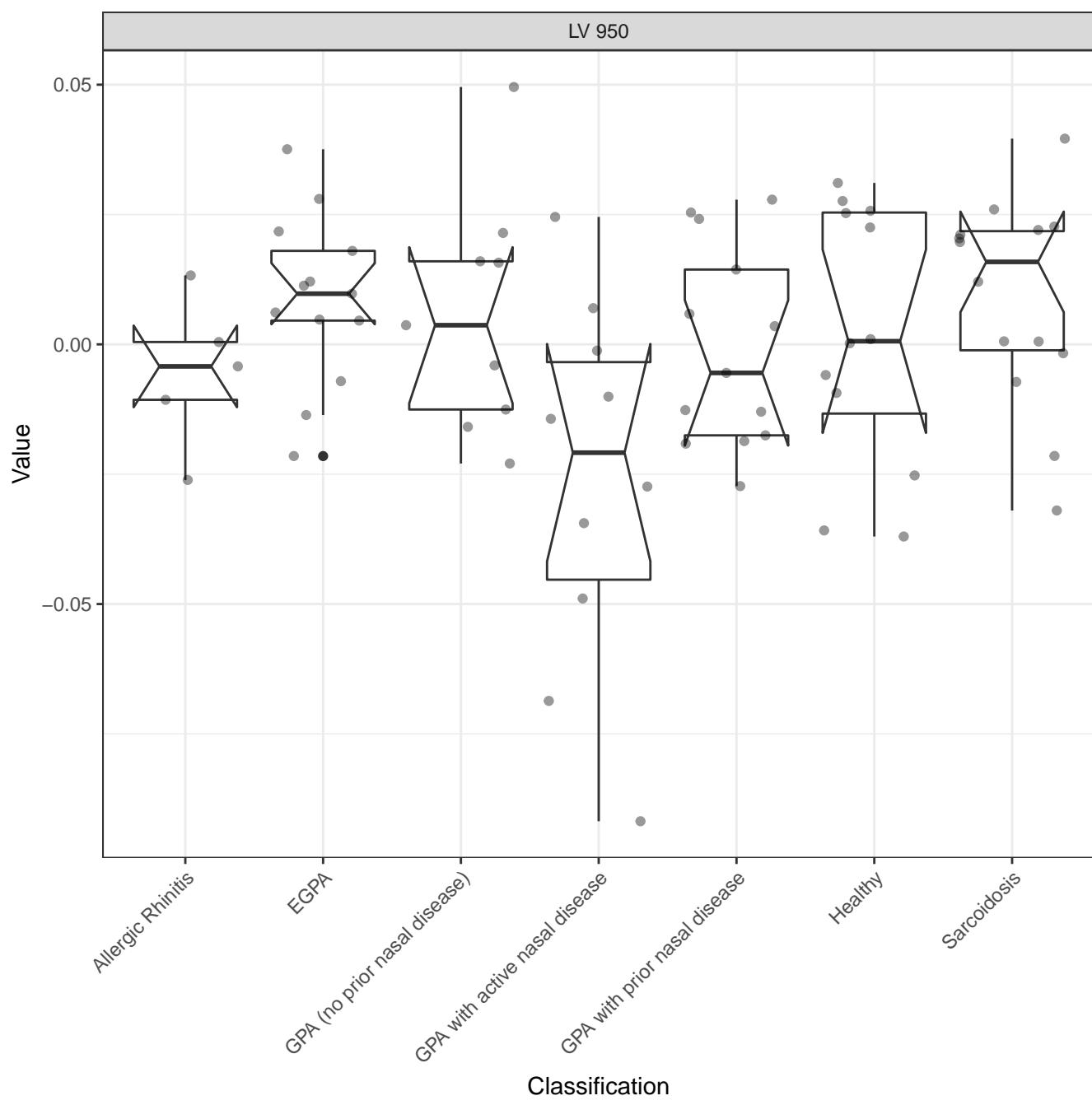
Value



Value







## 951,SVM Plasma cells

Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.03

0.01

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

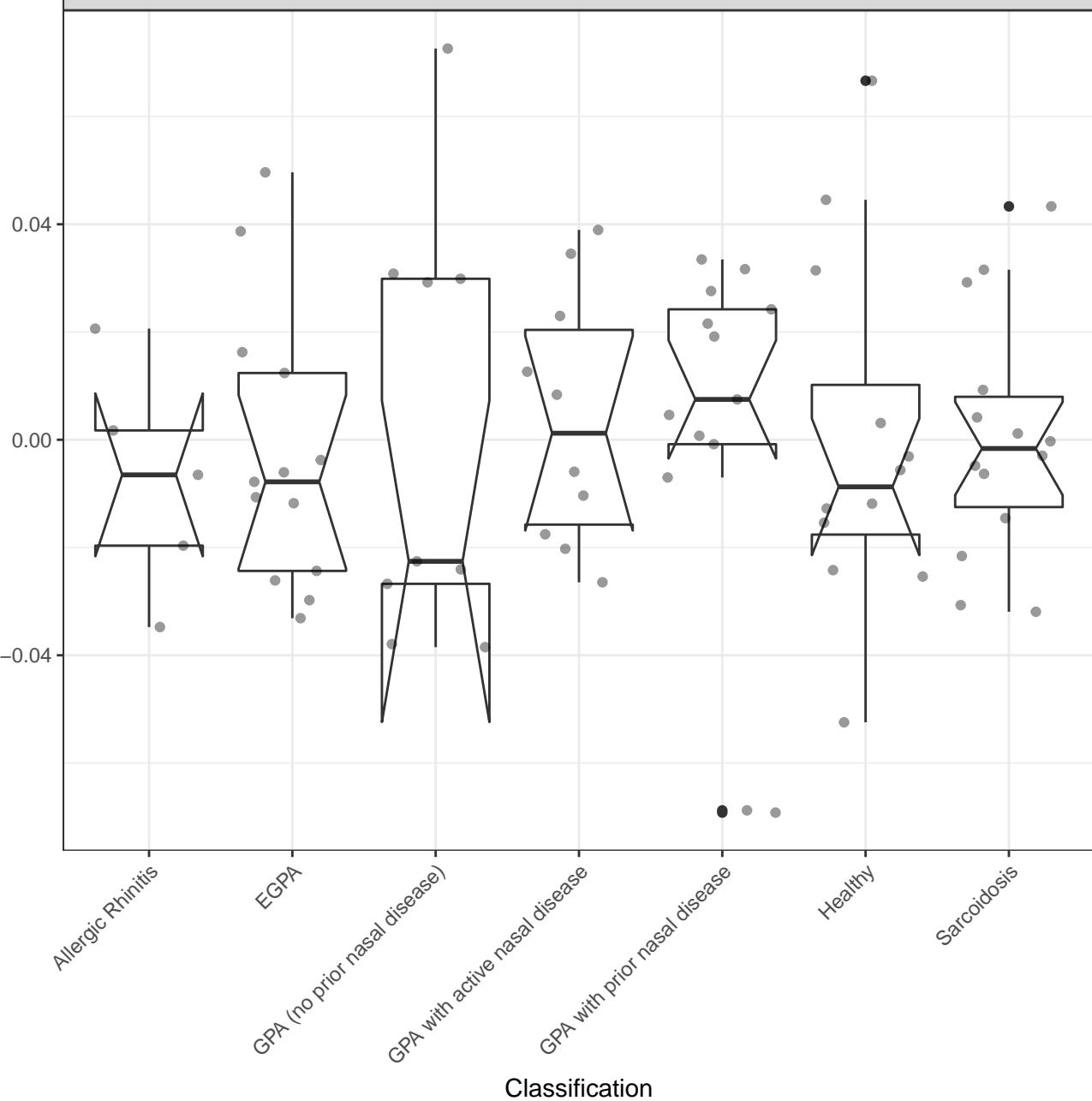
GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value



Value

0.03

0.01

-0.01

-0.03

-0.05

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

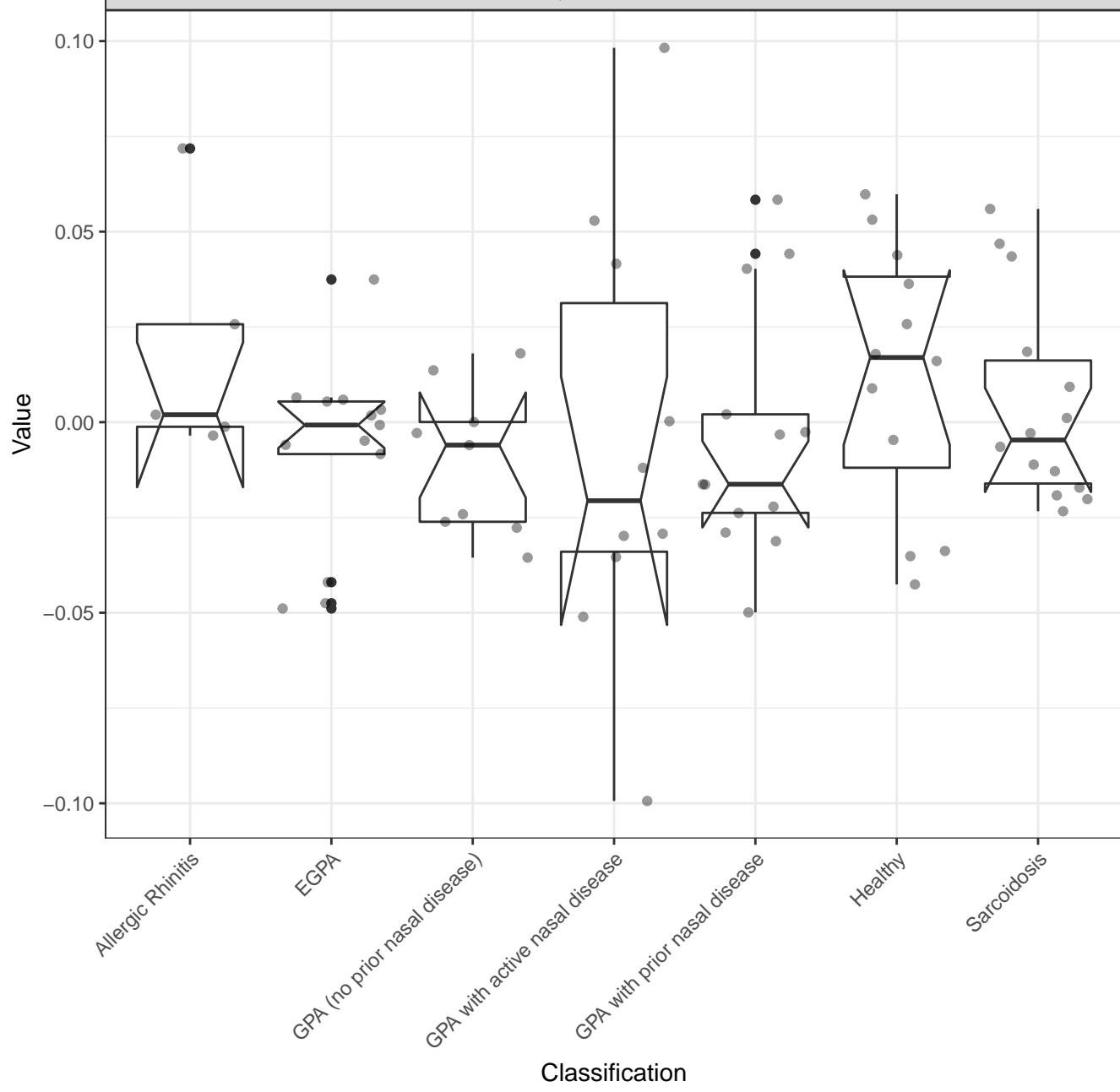
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

-0.10

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.1

0.0

-0.1

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

## 964,SVM T cells CD8

Value

0.04

0.01

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

LV 965

Value

0.05

0.00

-0.05

-0.10

-0.15

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

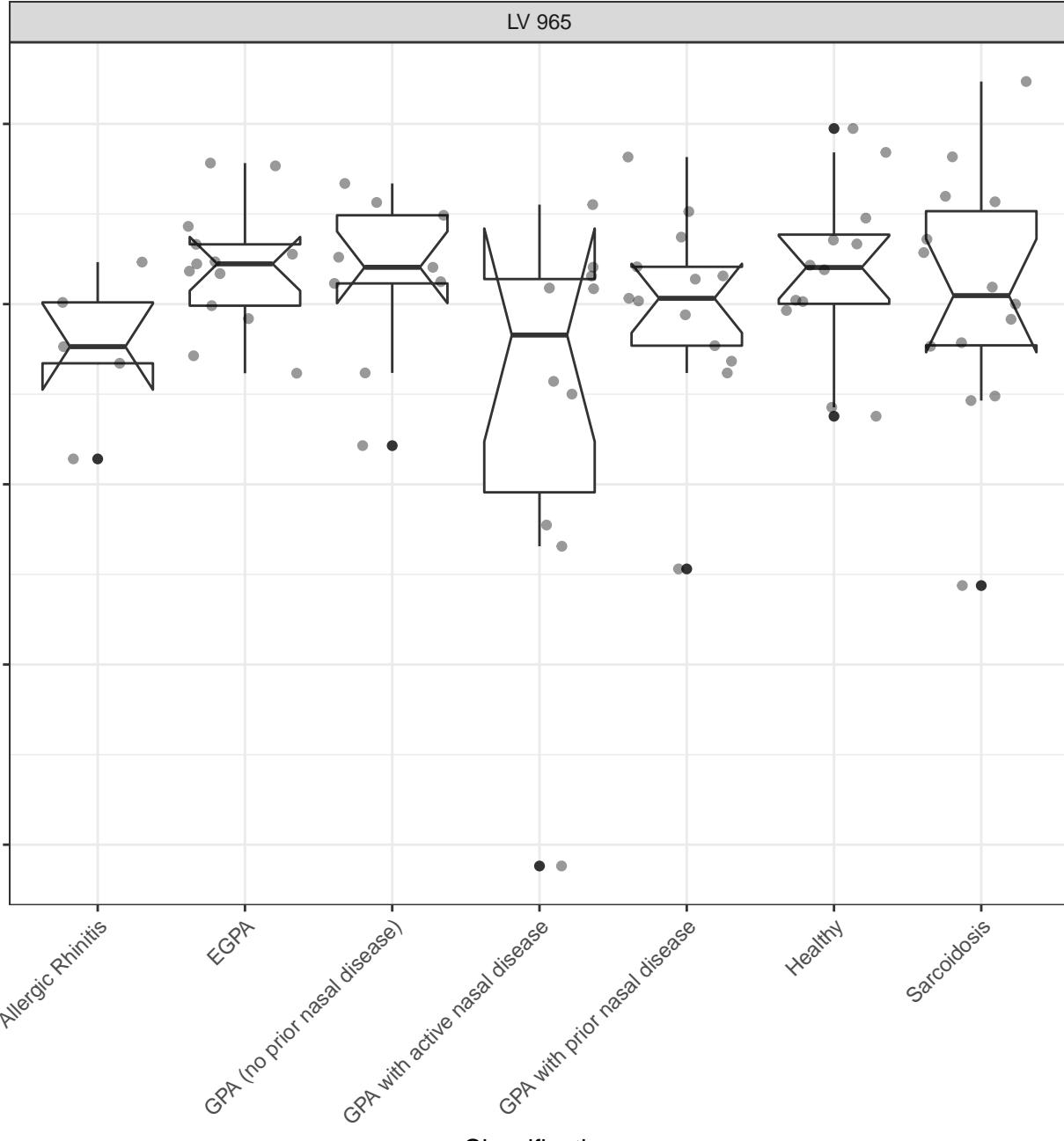
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.15  
0.10  
0.05  
0.00  
-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

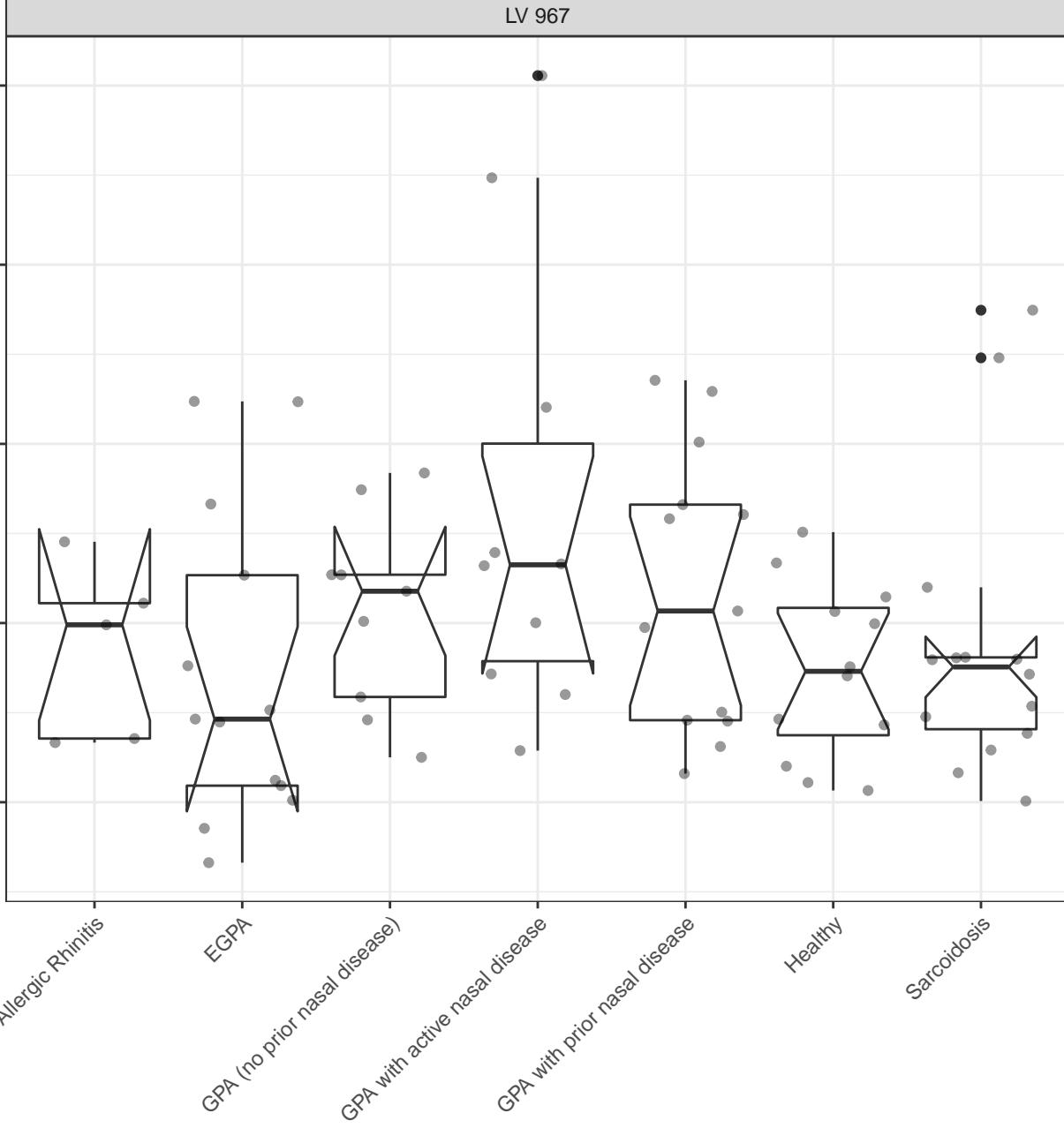
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

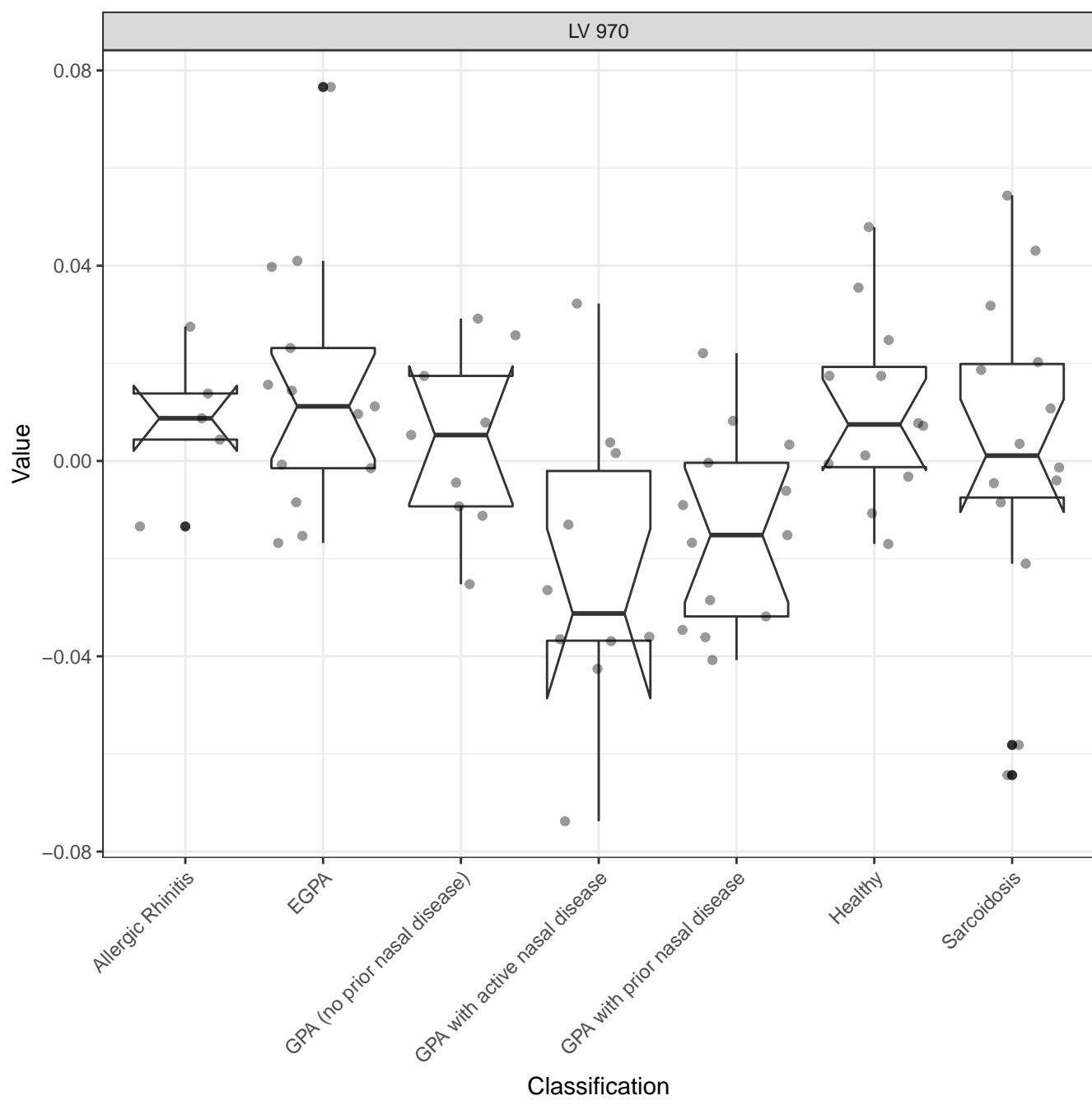
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.025

0.000

-0.025

-0.050

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

0.025

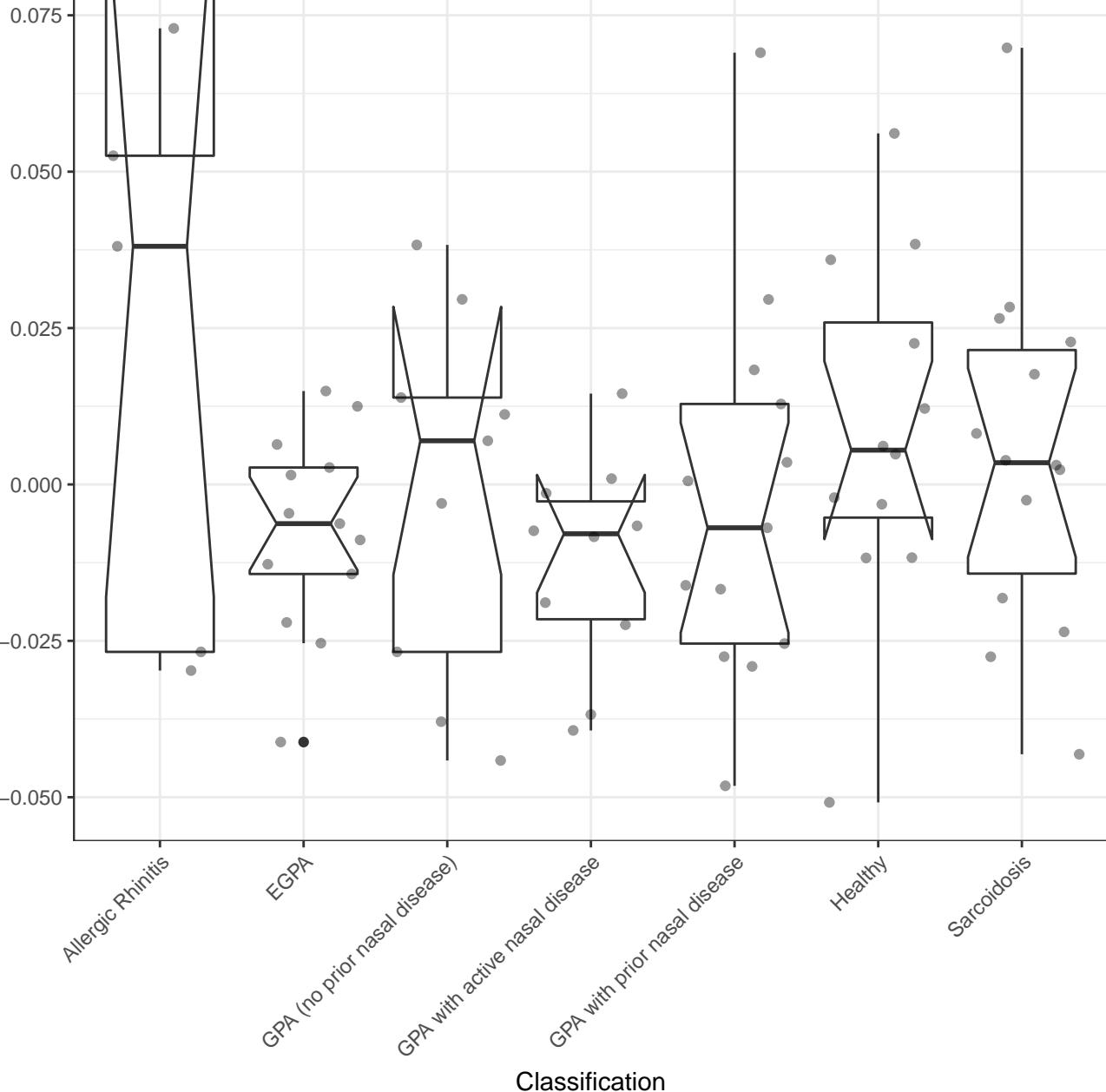
0.000

-0.025

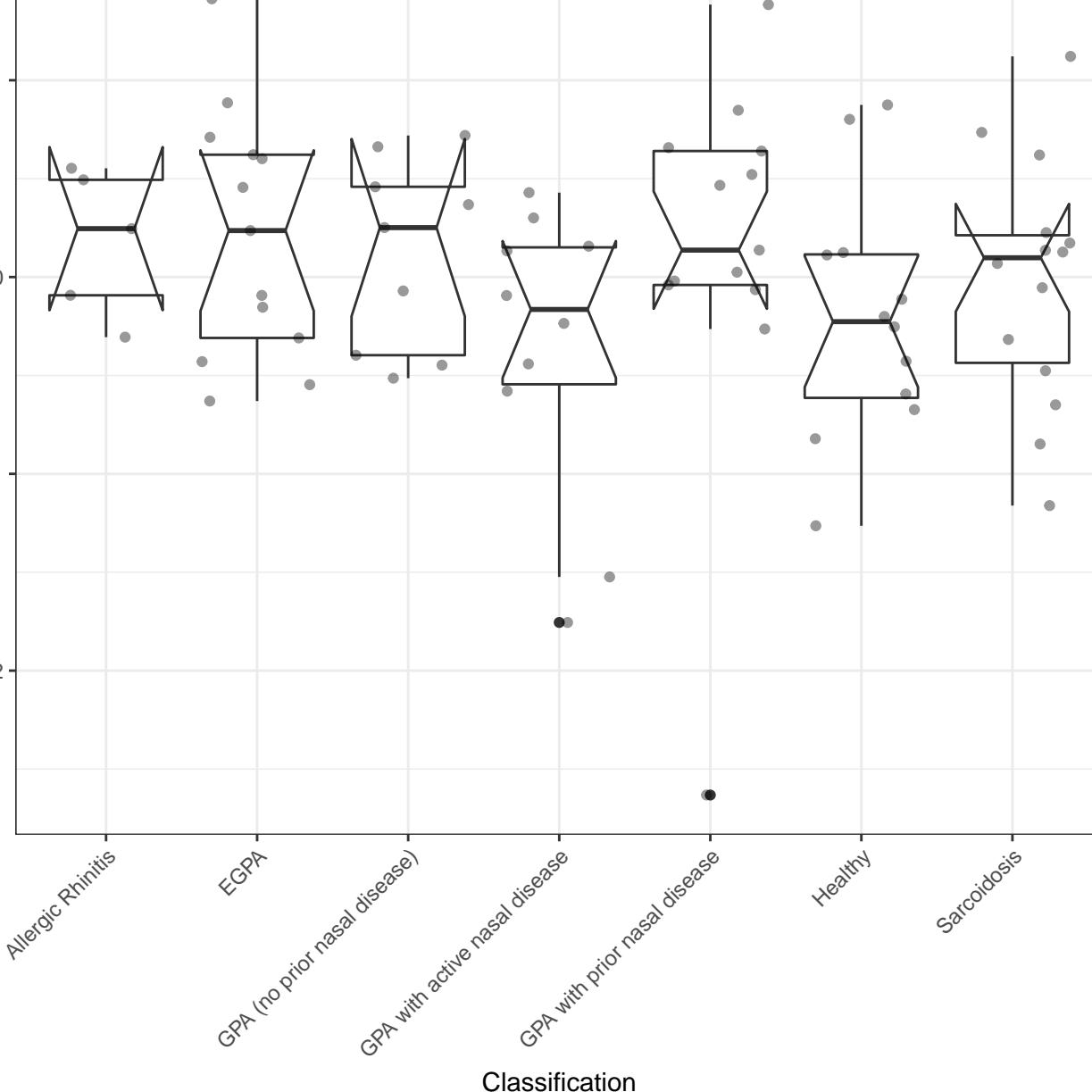
-0.050

LV 973

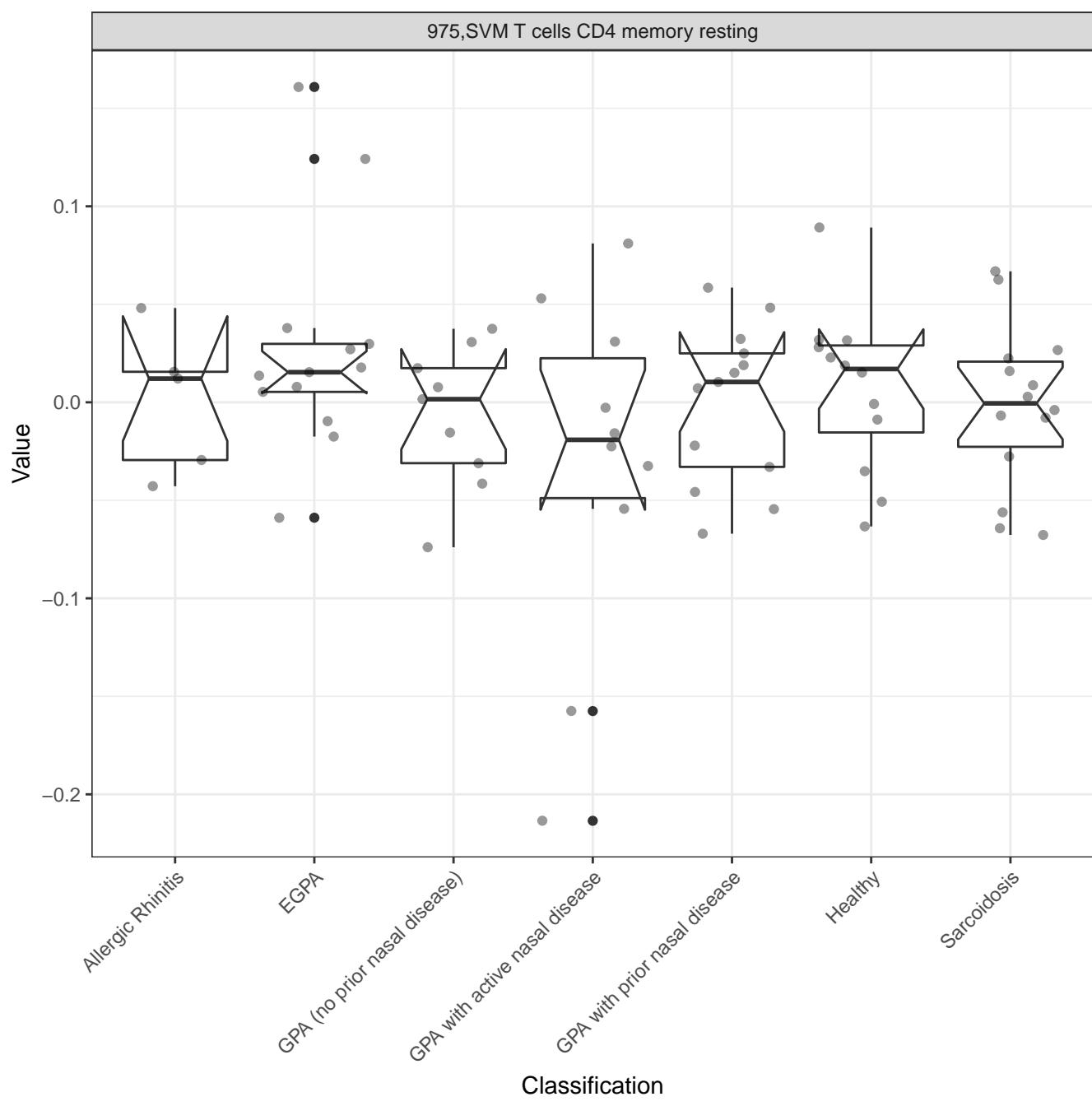
Value

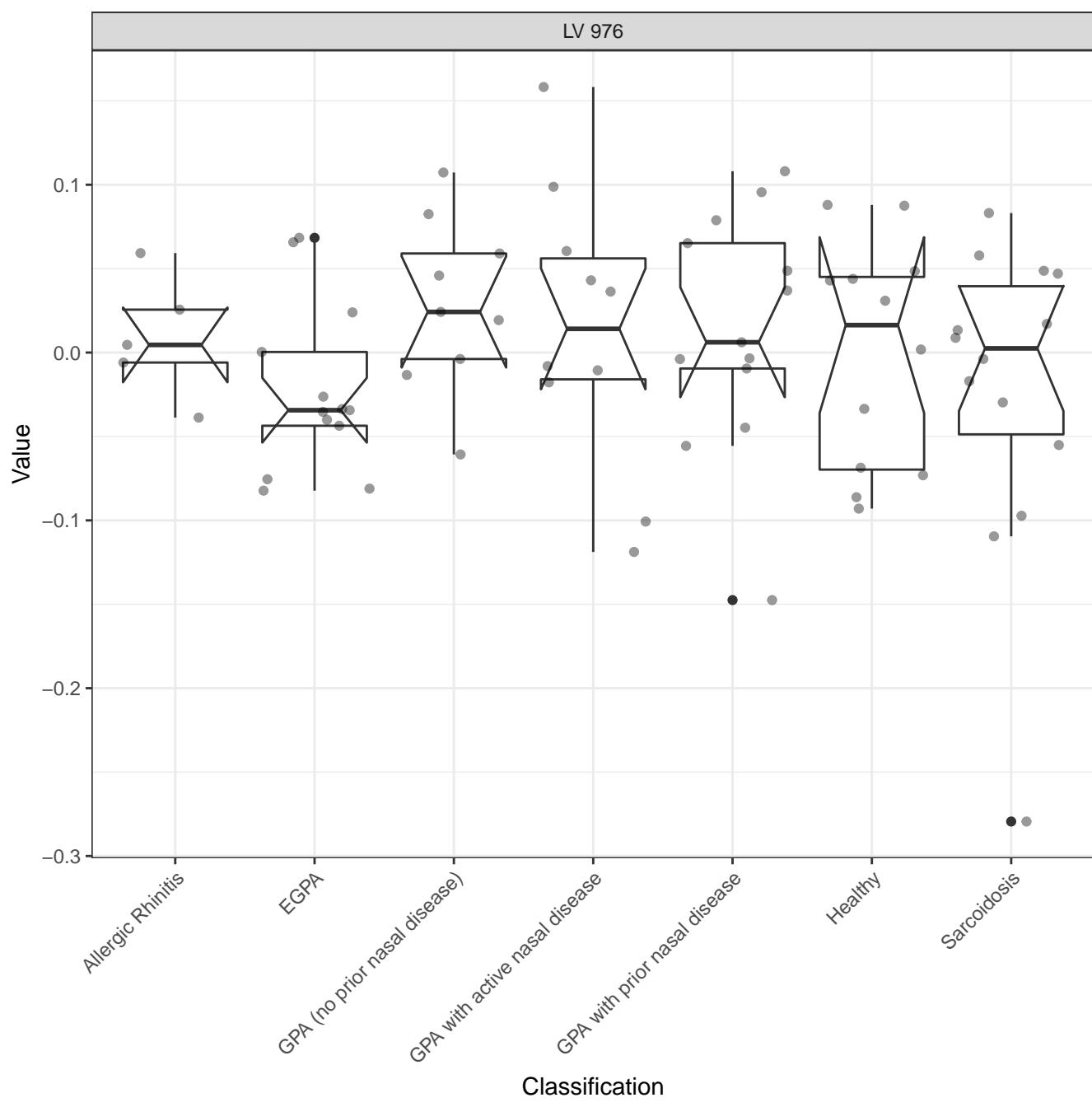


Value



## 975,SVM T cells CD4 memory resting





## 977,SVM B cells naive

Value

0.15

0.10

0.05

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

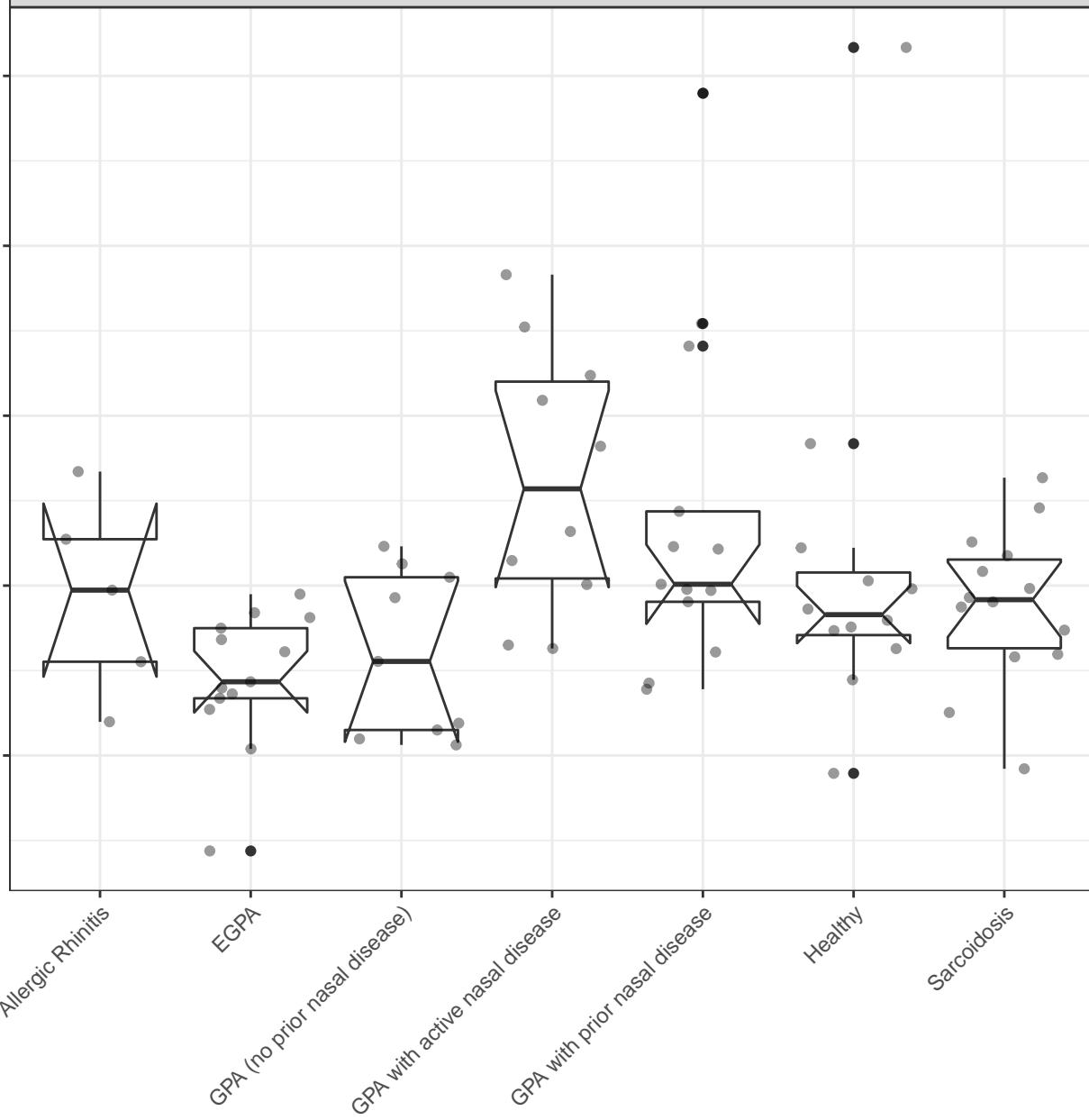
GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification



Value

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.10

0.05

0.00

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

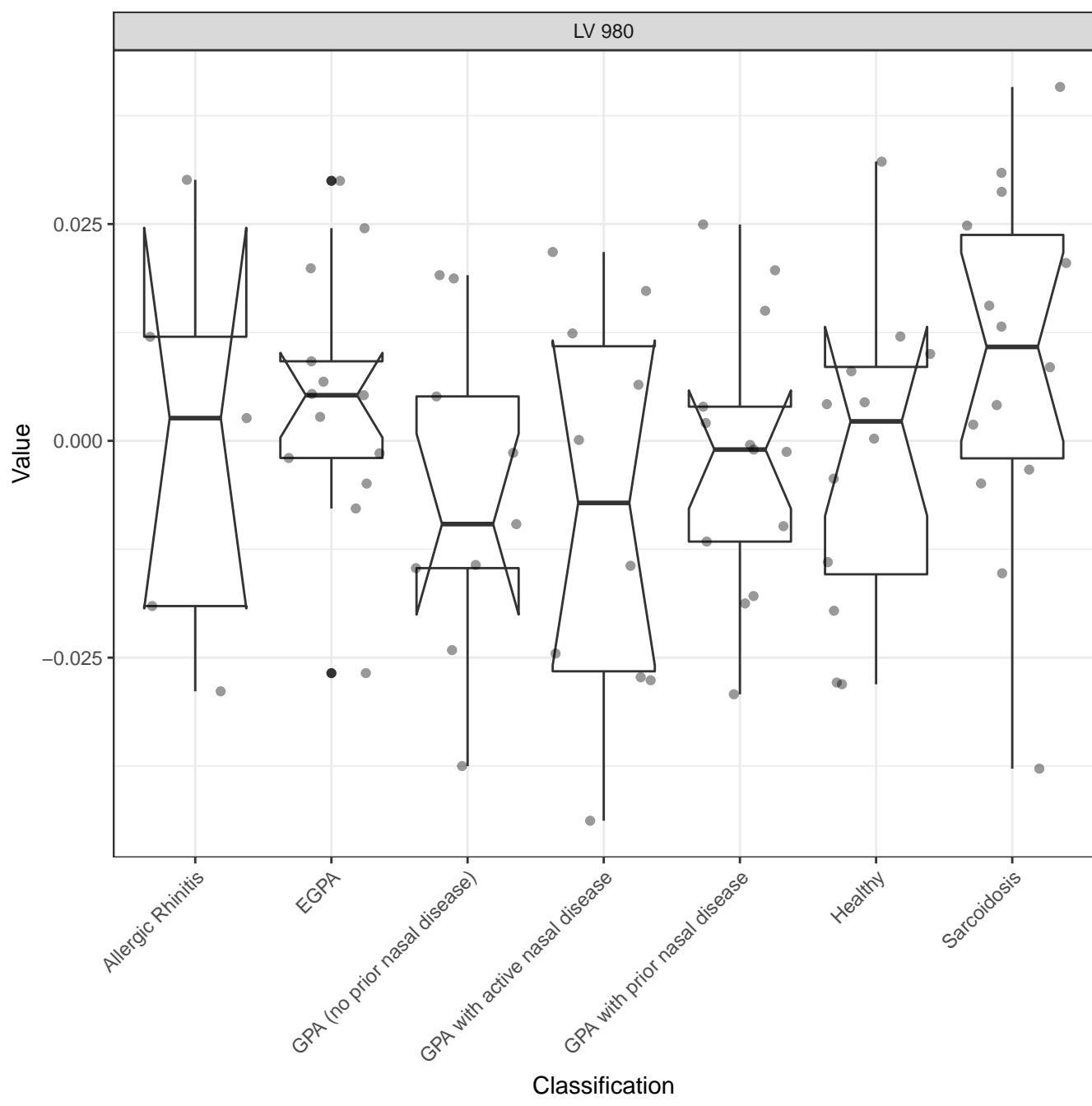
GPA with active nasal disease

GPA with prior nasal disease

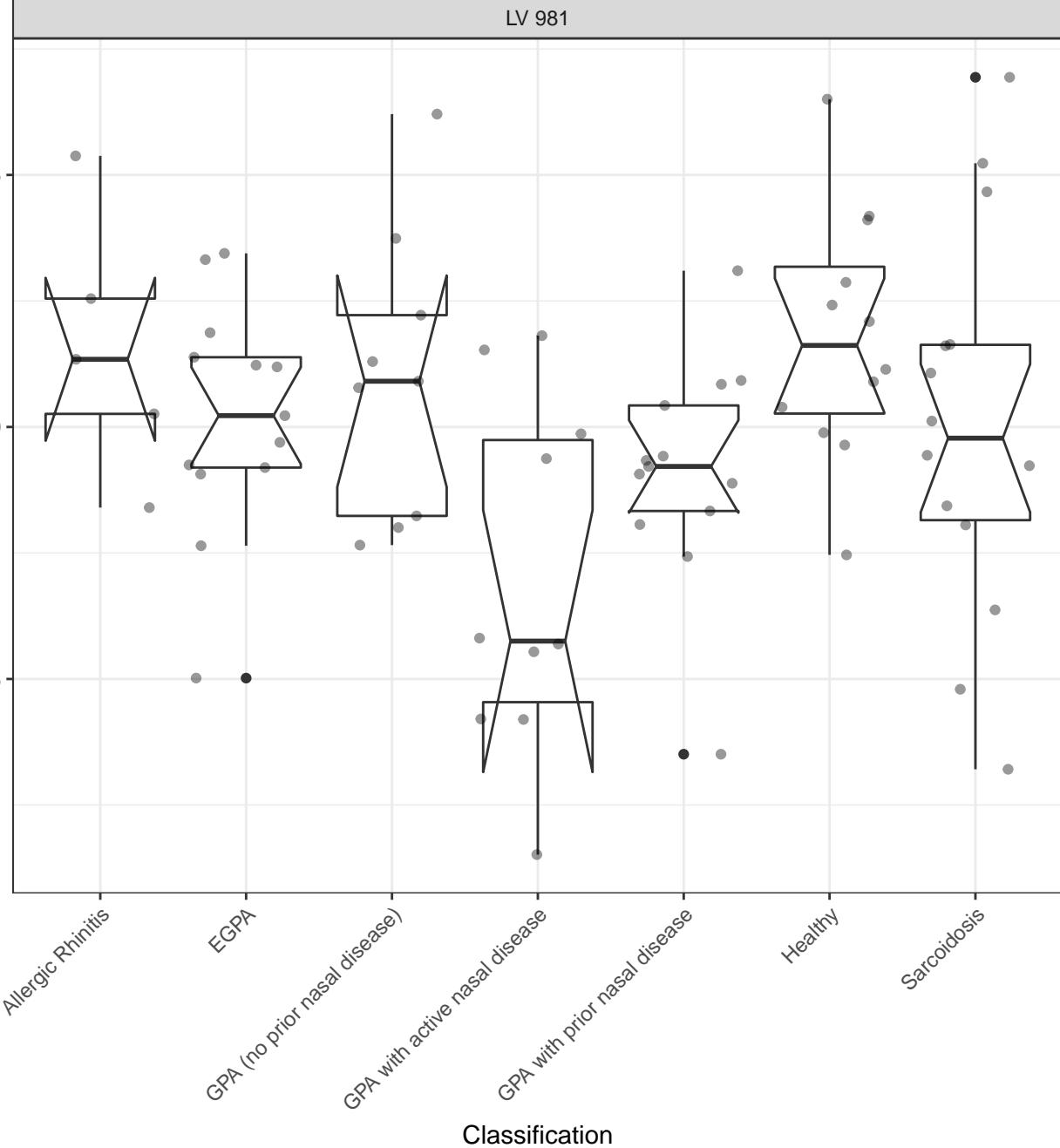
Healthy

Sarcoidosis

Classification



Value



Value

0.08

0.04

0.00

-0.04

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.05

0.01

-0.05

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

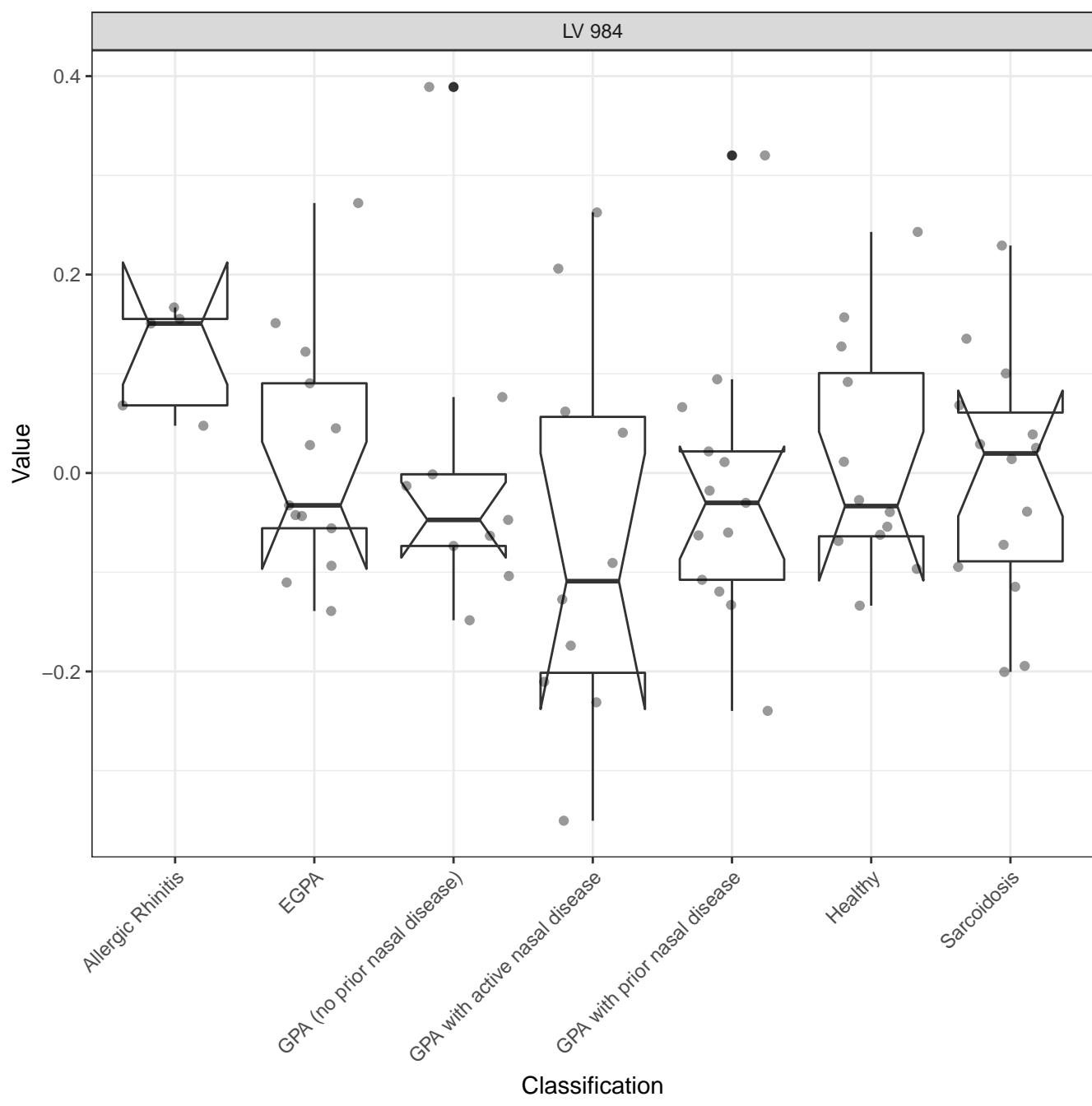
GPA with active nasal disease

GPA with prior nasal disease

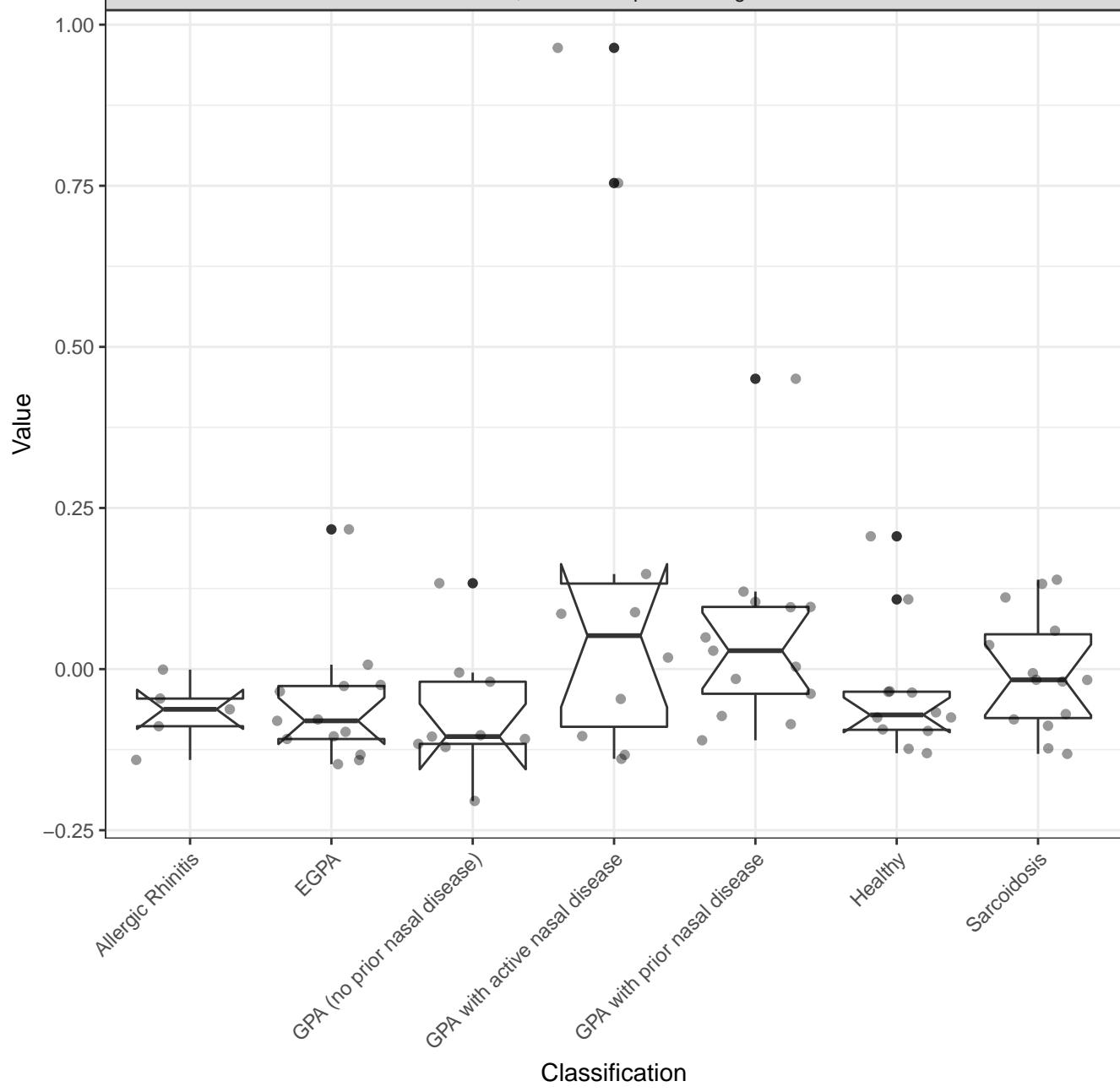
Healthy

Sarcoidosis

Classification



## 985,IRIS\_Neutrophil–Resting



Value

0.06

0.03

-0.03

-0.06

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification

Value

0.2

0.1

0.0

-0.1

-0.2

-0.3

Allergic Rhinitis

EGPA

GPA (no prior nasal disease)

GPA with active nasal disease

GPA with prior nasal disease

Healthy

Sarcoidosis

Classification