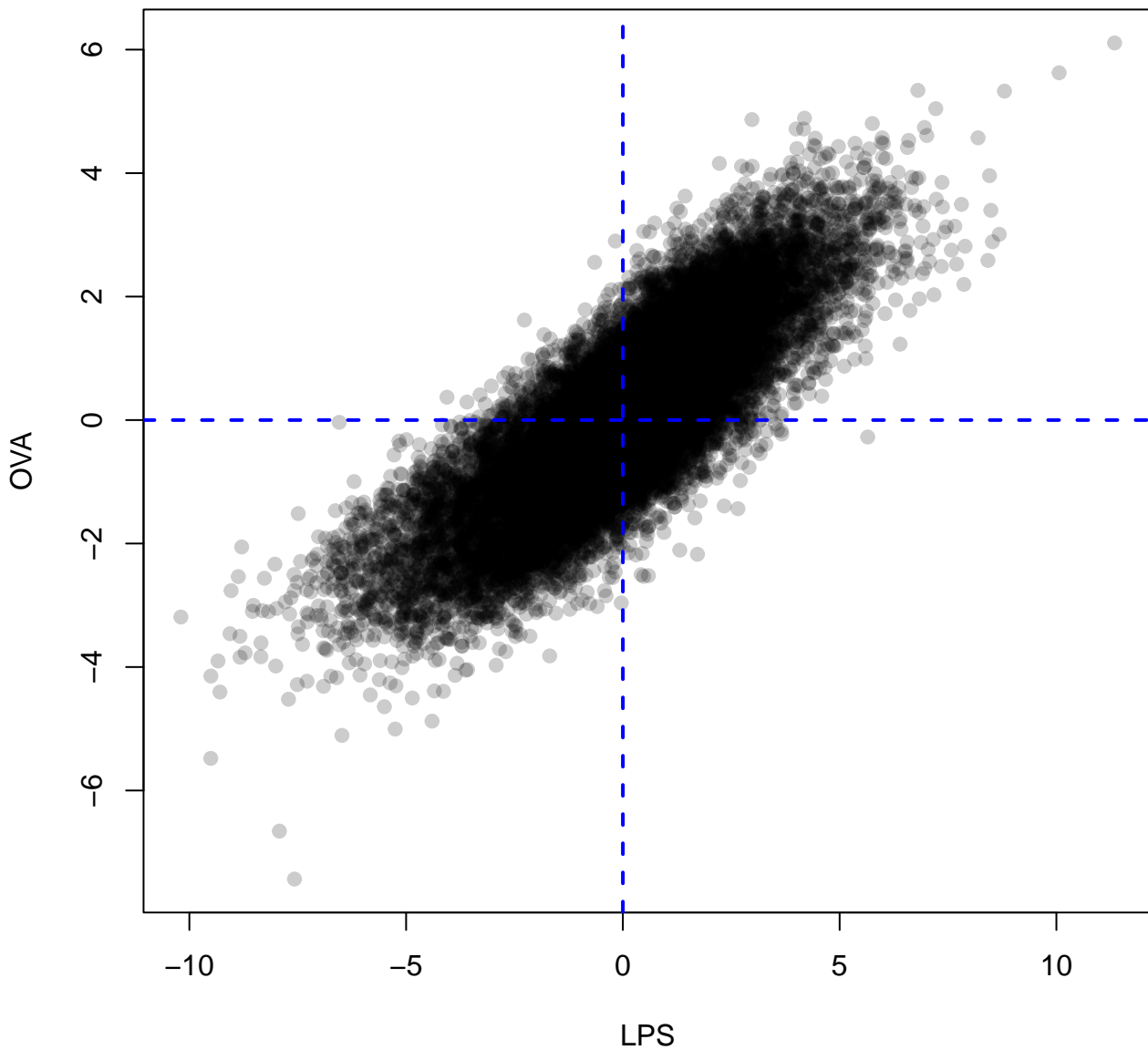
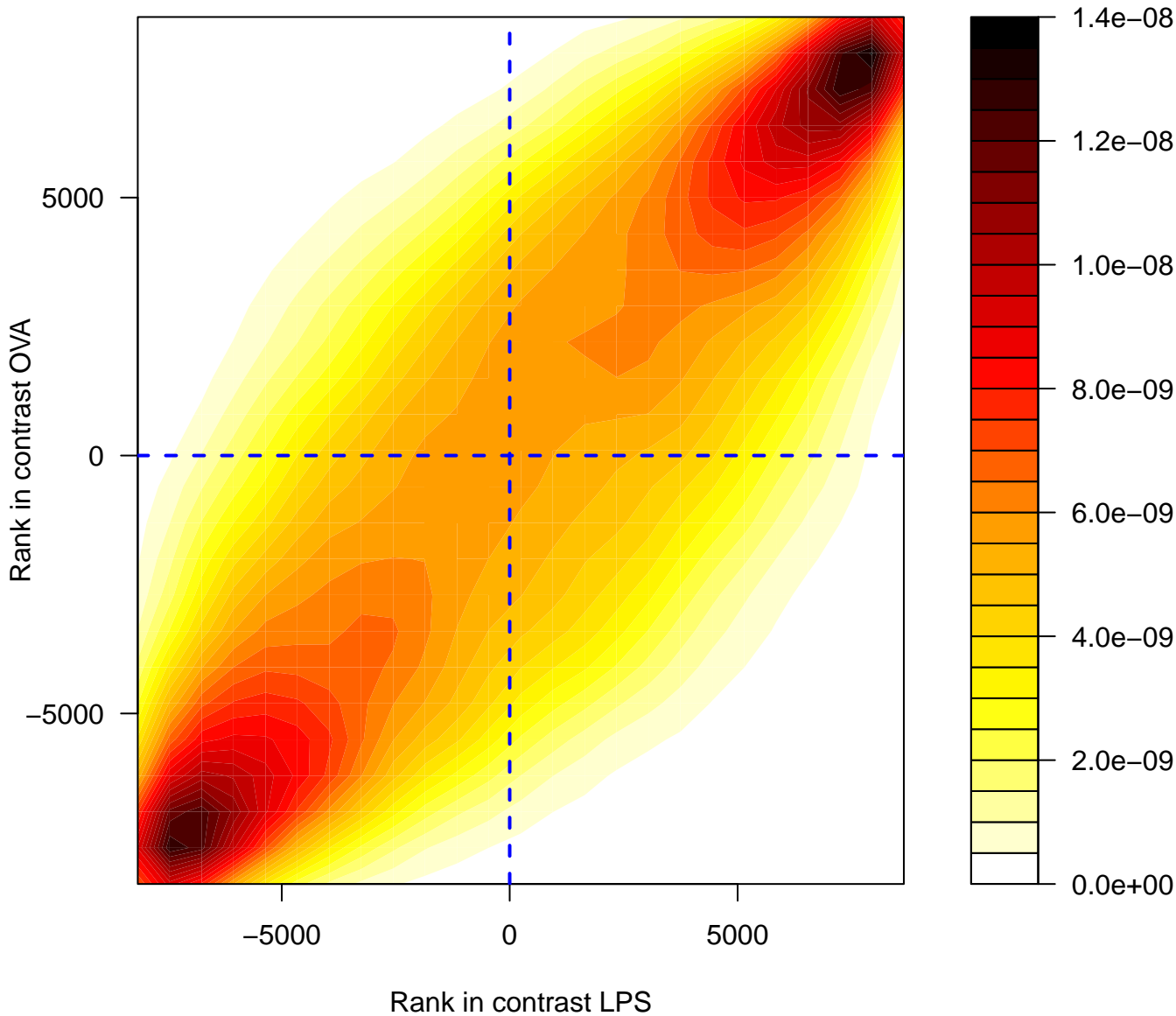


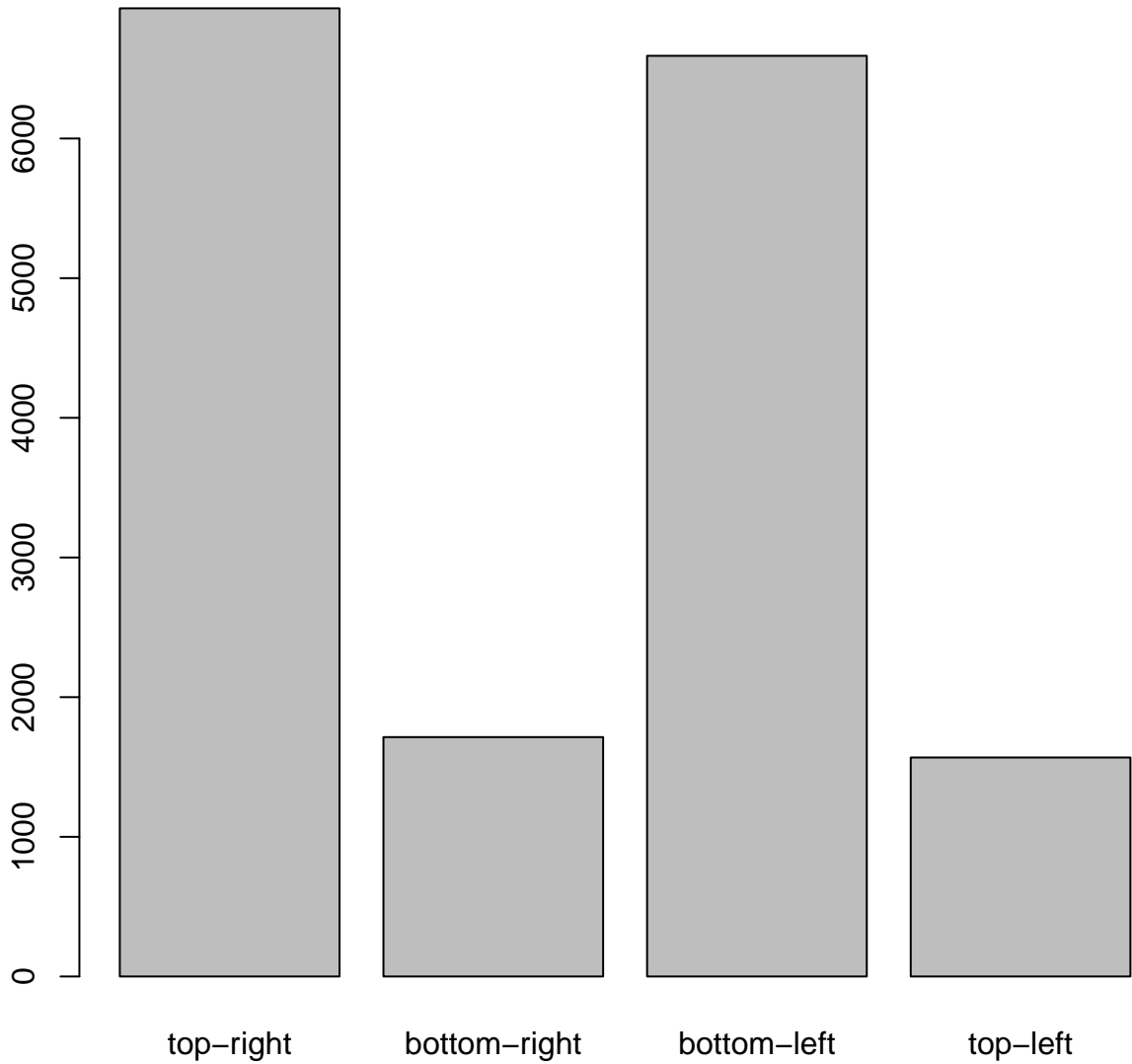
# Scatterplot of all genes



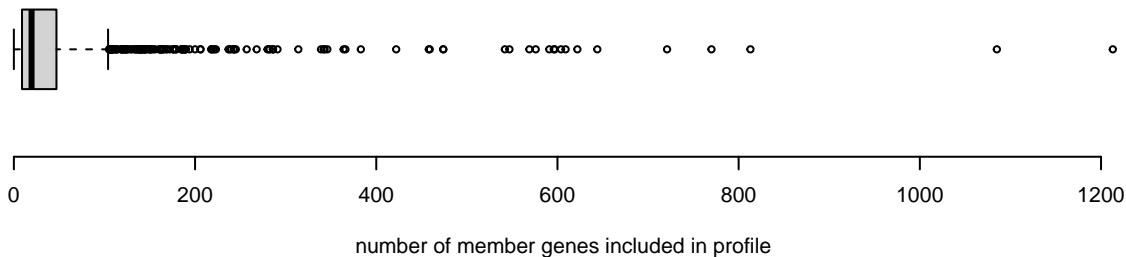
# Rank-rank plot of all genes



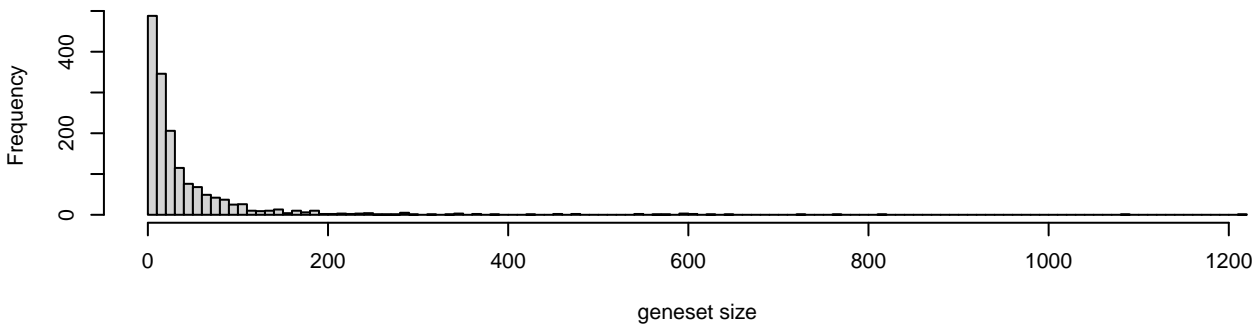
## number of genes in each quadrant



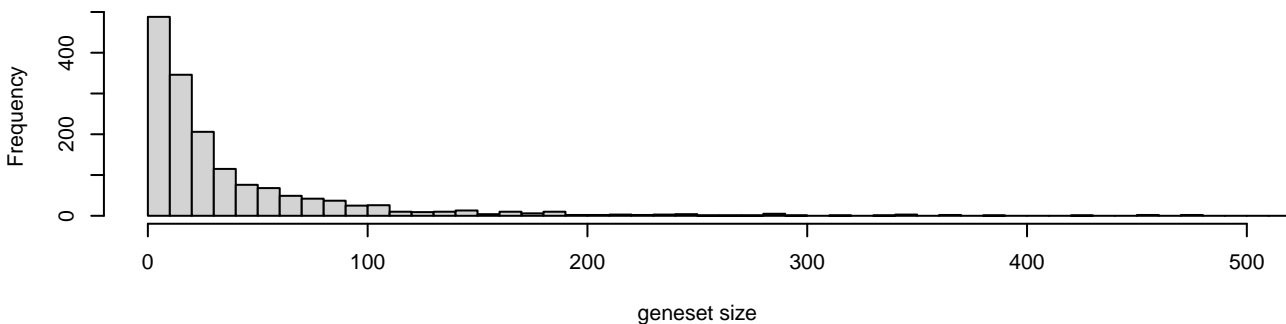
## Gene set size



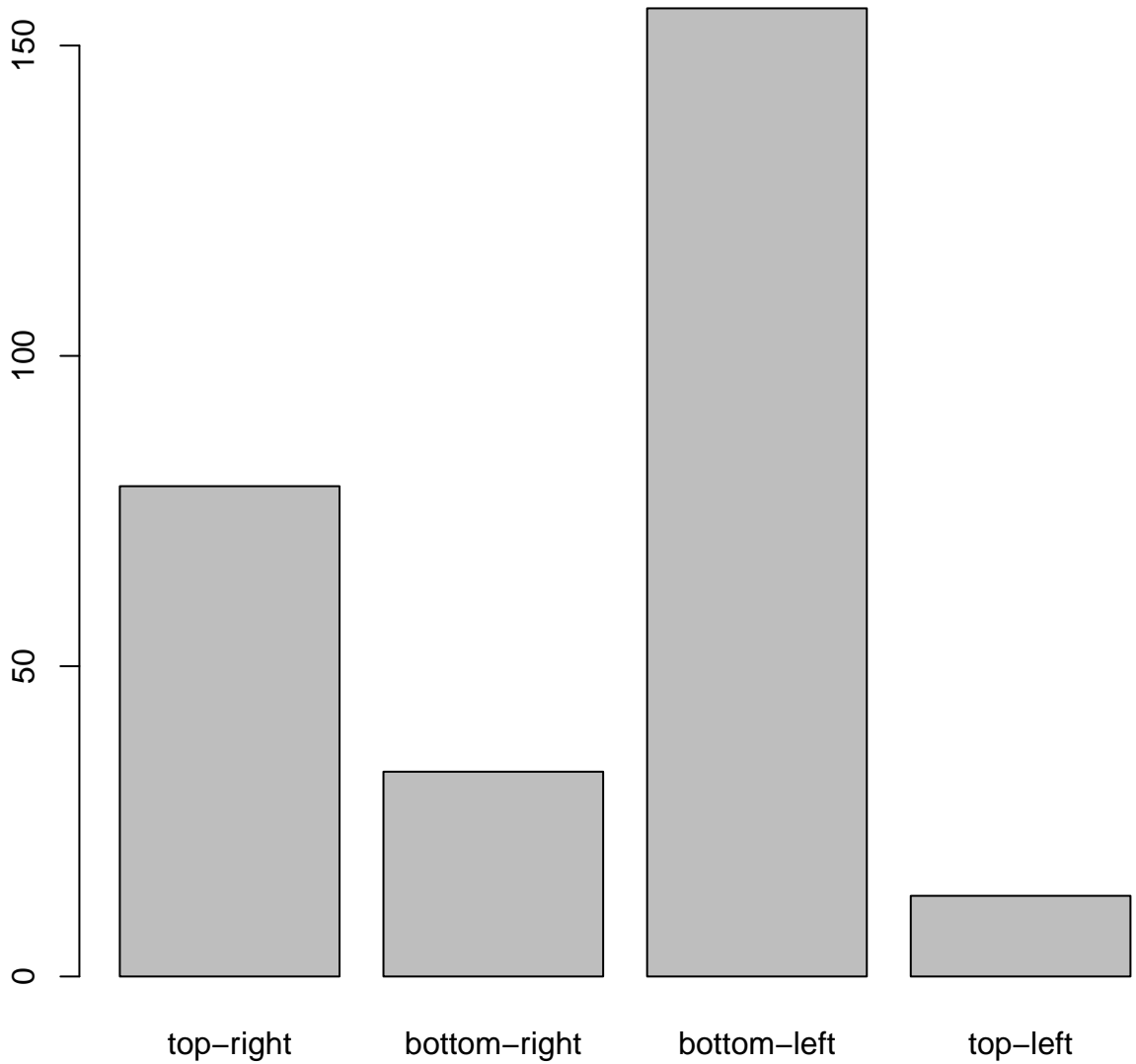
## Histogram of geneset size



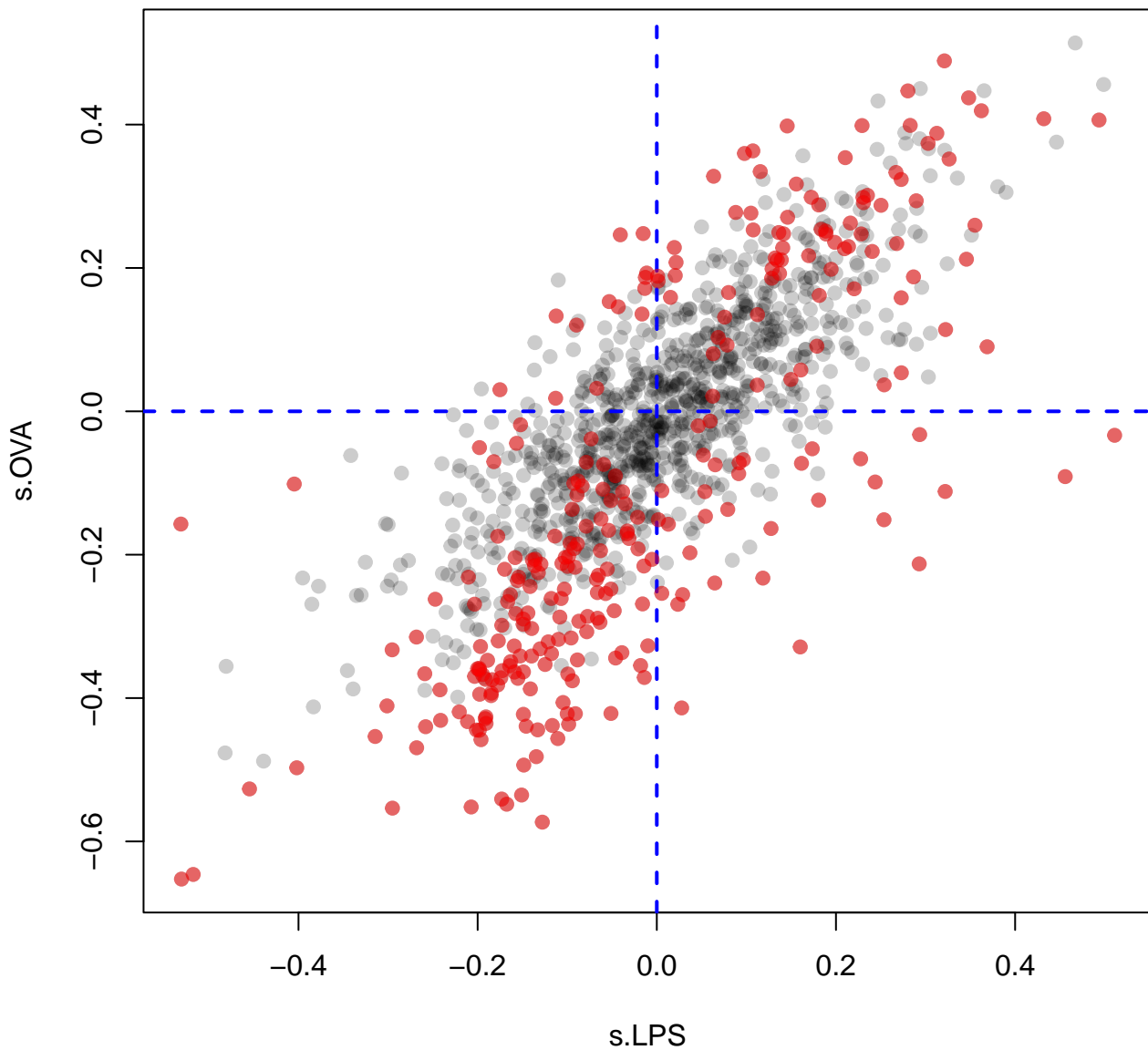
## Trimmed histogram of geneset size



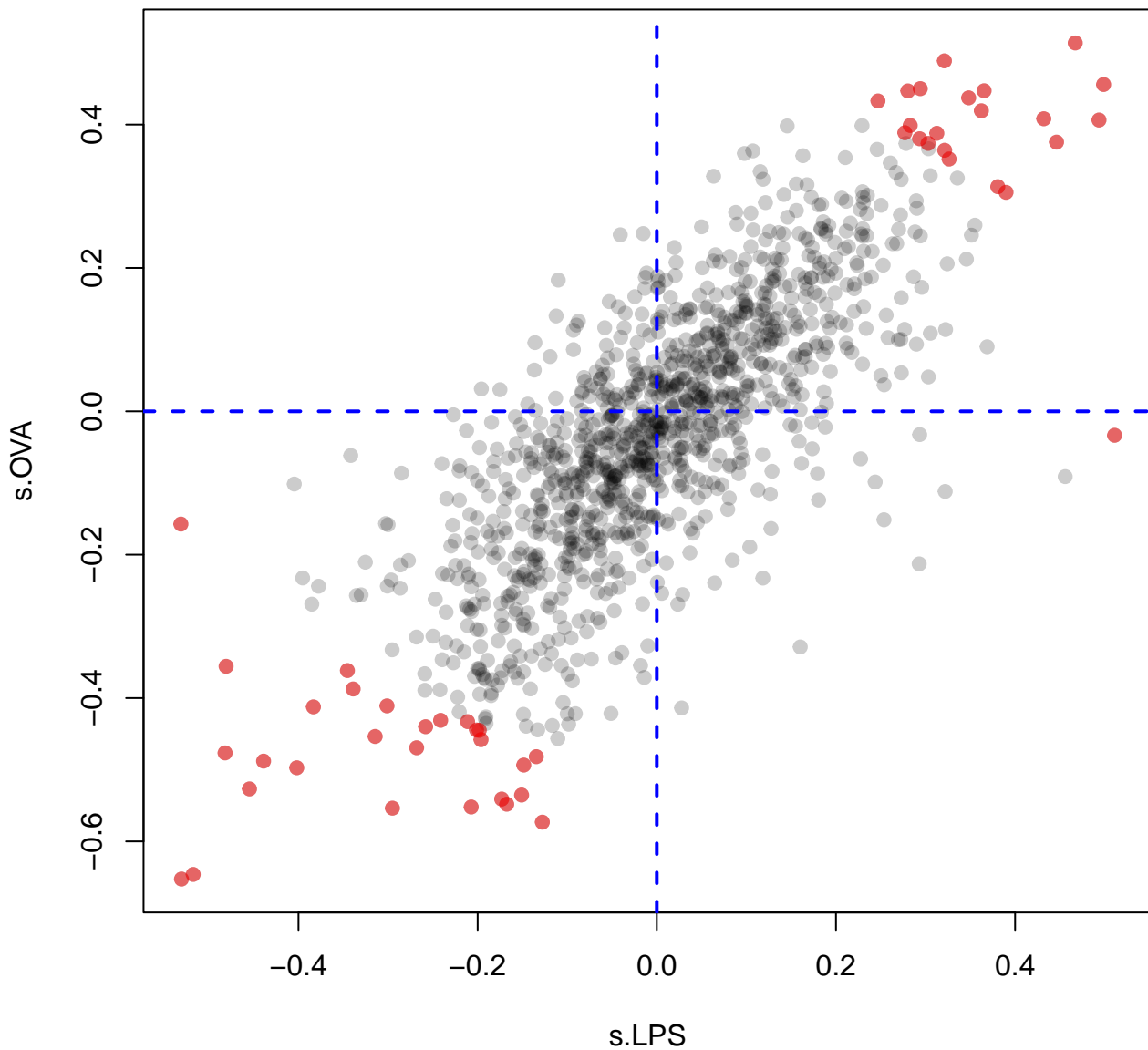
# number of genesets FDR<0.05



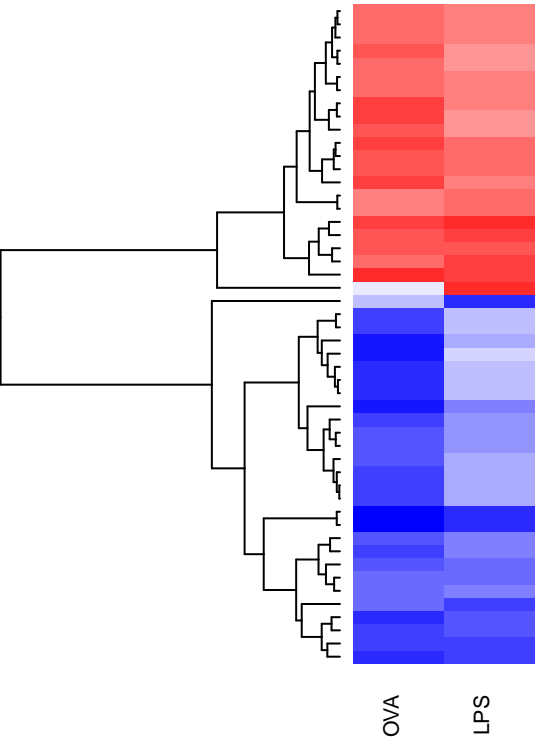
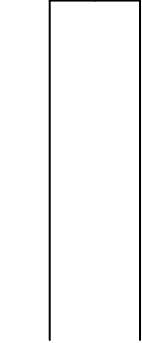
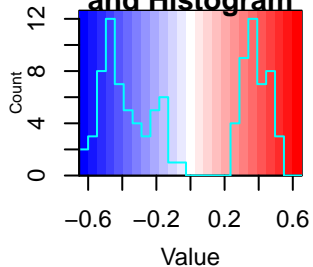
Scatterplot of all gene sets; FDR<0.05 in red



Scatterplot of all gene sets; top 50 in red



# Color Key and Histogram



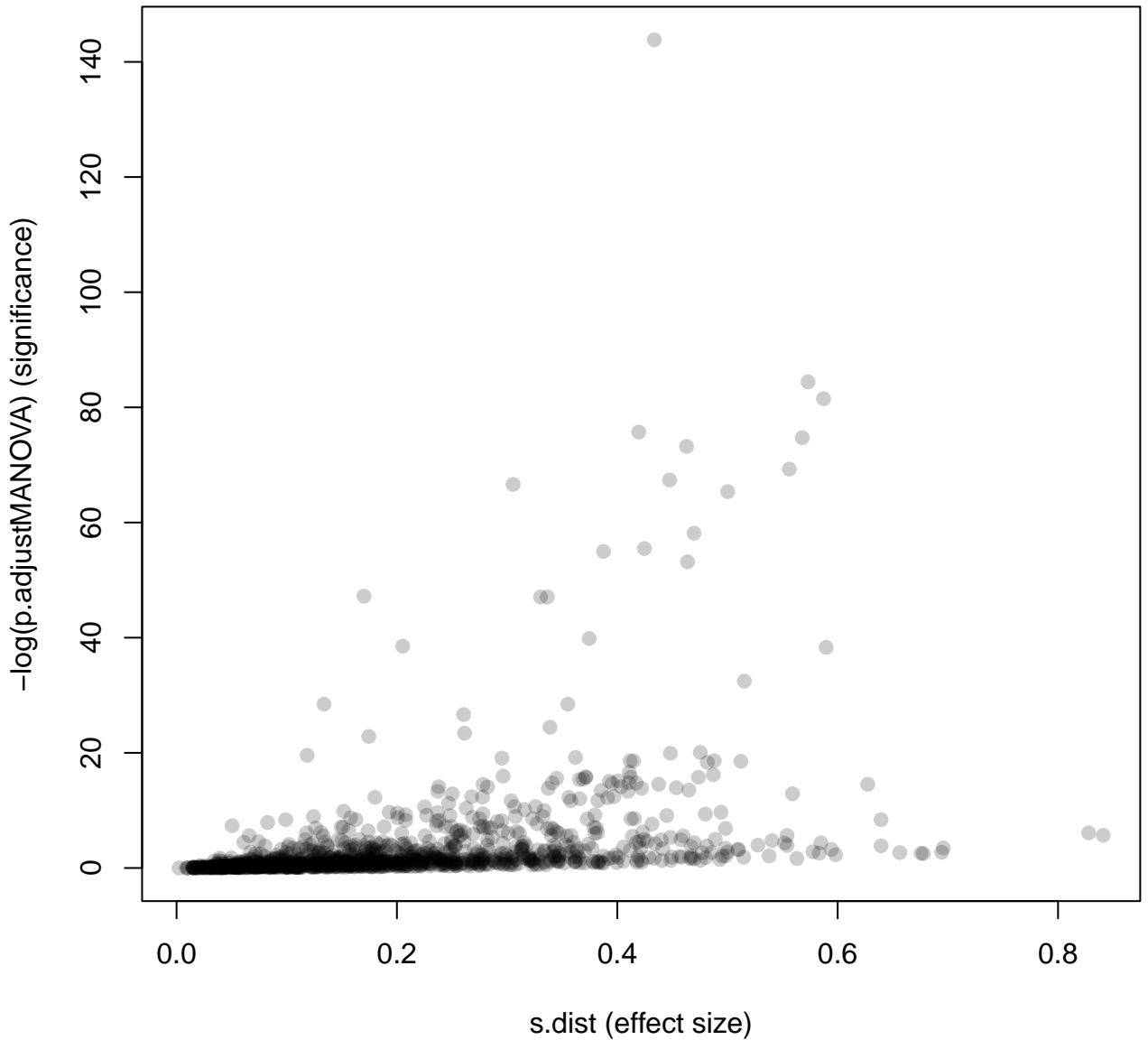
- RUNX3 REGULATES NOTCH SIGNALING
- NOTCH HLH TRANSCRIPTION PATHWAY
- NOTCH4 INTRACELLULAR DOMAIN REGULATES TRANSCRIPTION
- REGULATION OF COMMISSURAL AXON PATHFINDING BY SLIT AND ROBO
- SIGNALING BY LEPTIN
- NRAGE SIGNALS DEATH THROUGH JNK
- CRMP5 IN SEMA3A SIGNALING
- CELLULAR HEXOSE TRANSPORT
- CROSSLINKING OF COLLAGEN FIBRILS
- CYTOSOLIC IRON SULFUR CLUSTER ASSEMBLY
- POST CHAPERONIN TUBULIN FOLDING PATHWAY
- SELENOAMINO ACID METABOLISM
- ACTIVATION OF THE MRNA UPON BINDING OF THE CAP BINDING COMPLE
- RESPONSE OF EIF2AK4 GCN2 TO AMINO ACID DEFICIENCY
- EUKARYOTIC TRANSLATION INITIATION
- PROTEIN METHYLATION
- TRIGLYCERIDE CATABOLISM
- TRAFFICKING AND PROCESSING OF ENDOSOMAL TLR
- NEGATIVE REGULATION OF NOTCH4 SIGNALING
- SYNTHESIS SECRETION AND INACTIVATION OF GLUCAGON LIKE PEPTIDE
- ADP SIGNALLING THROUGH P2Y PURINOCEPTOR 12
- SYNTHESIS OF VERY LONG CHAIN FATTY ACYL COAS
- PROCESSING AND ACTIVATION OF SUMO
- CD28 DEPENDENT VAV1 PATHWAY
- SYNTHESIS SECRETION AND DEACYLATION OF GHRELIN

OVA

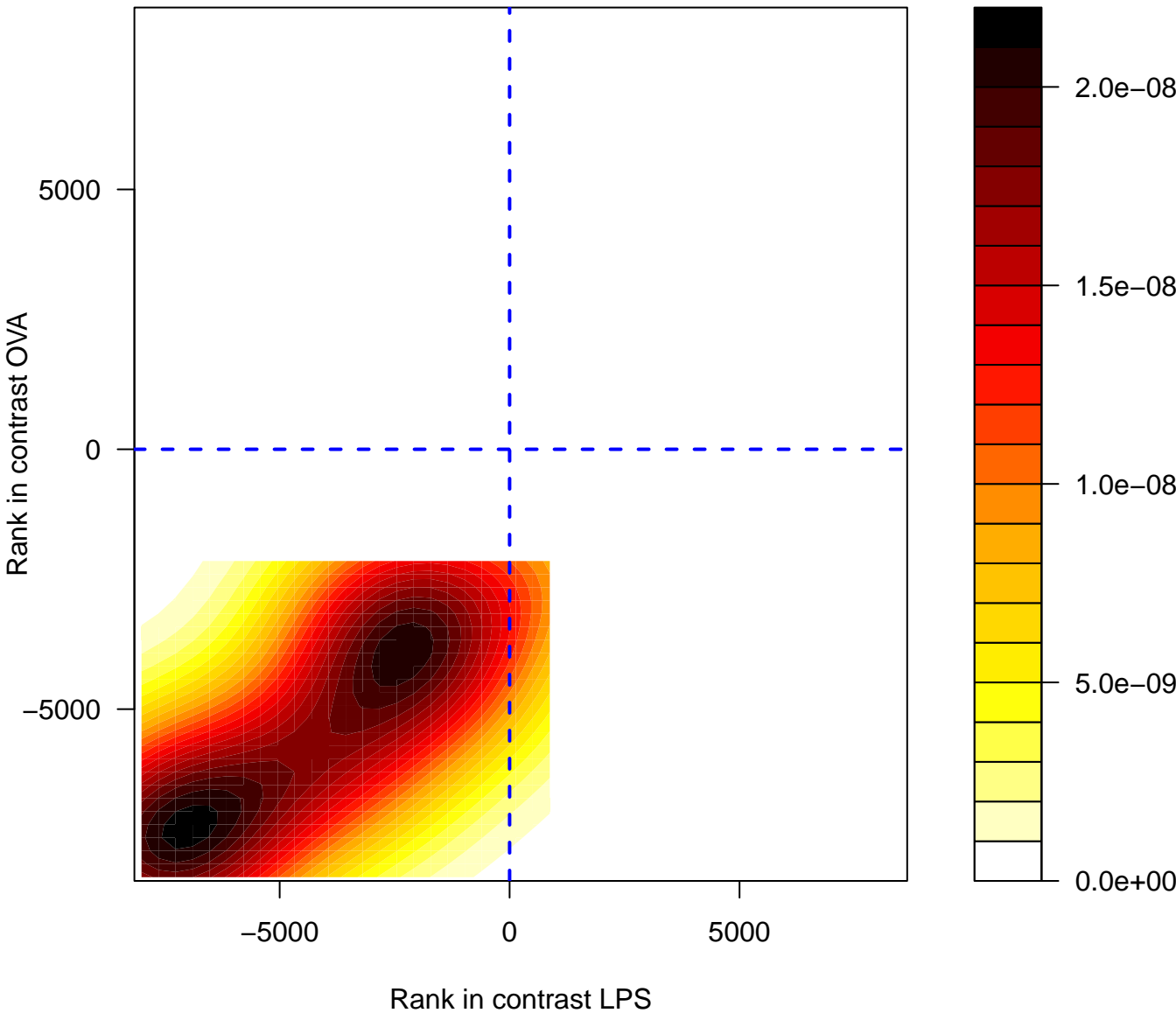
LPS



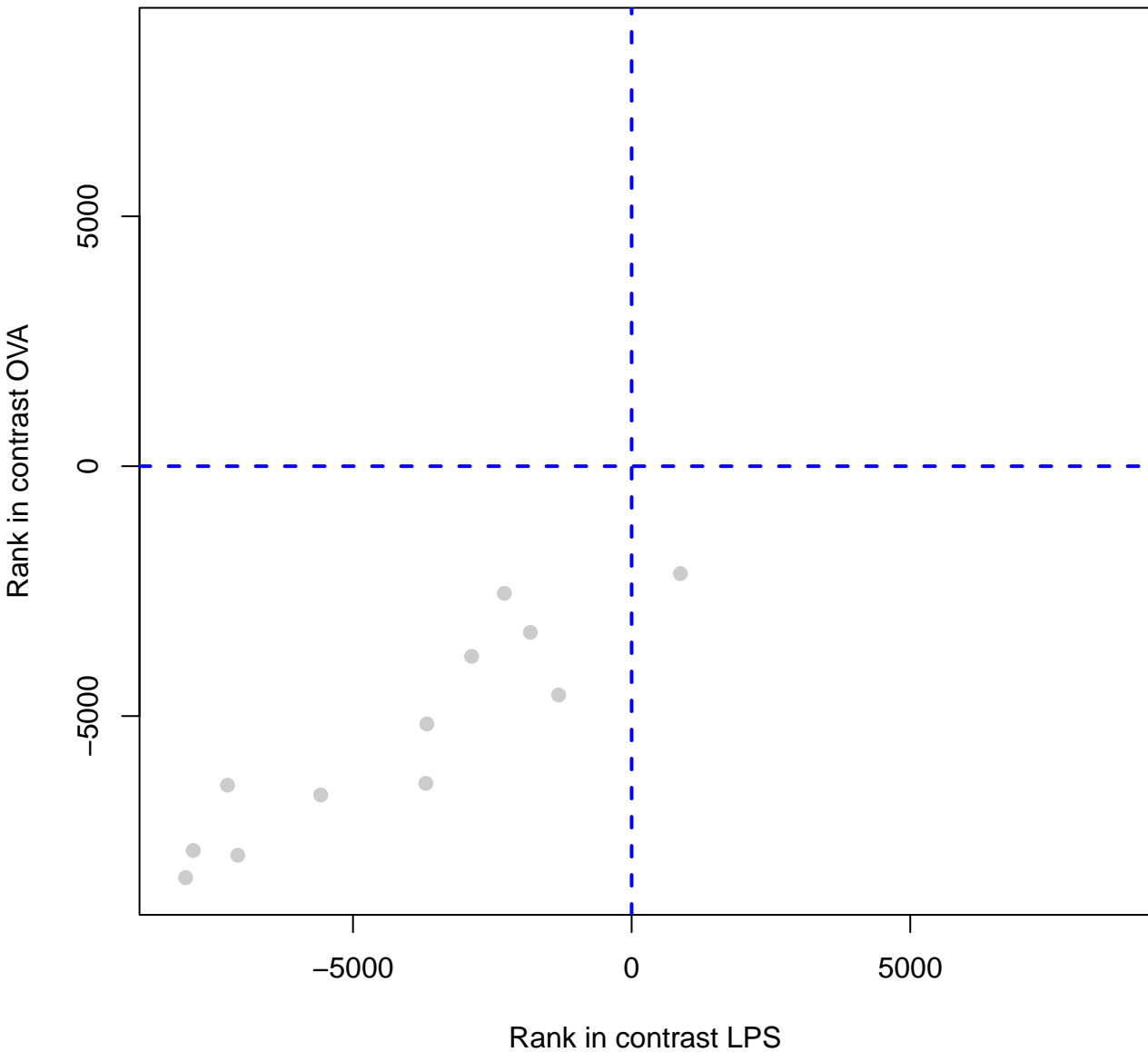
# effect size versus statistical significance



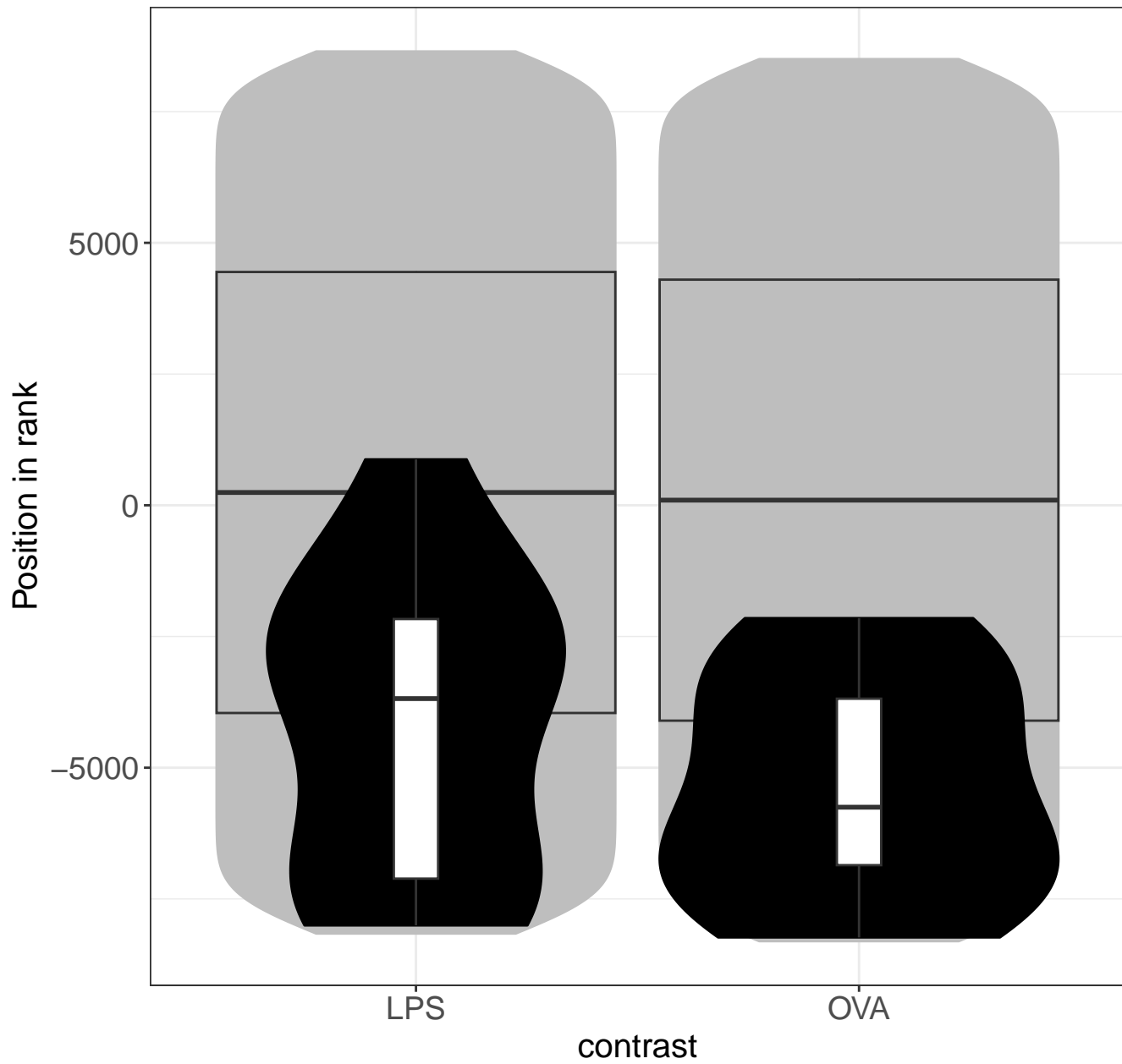
# SIS SECRETION AND INACTIVATION OF GLUCAGON LIKE PE



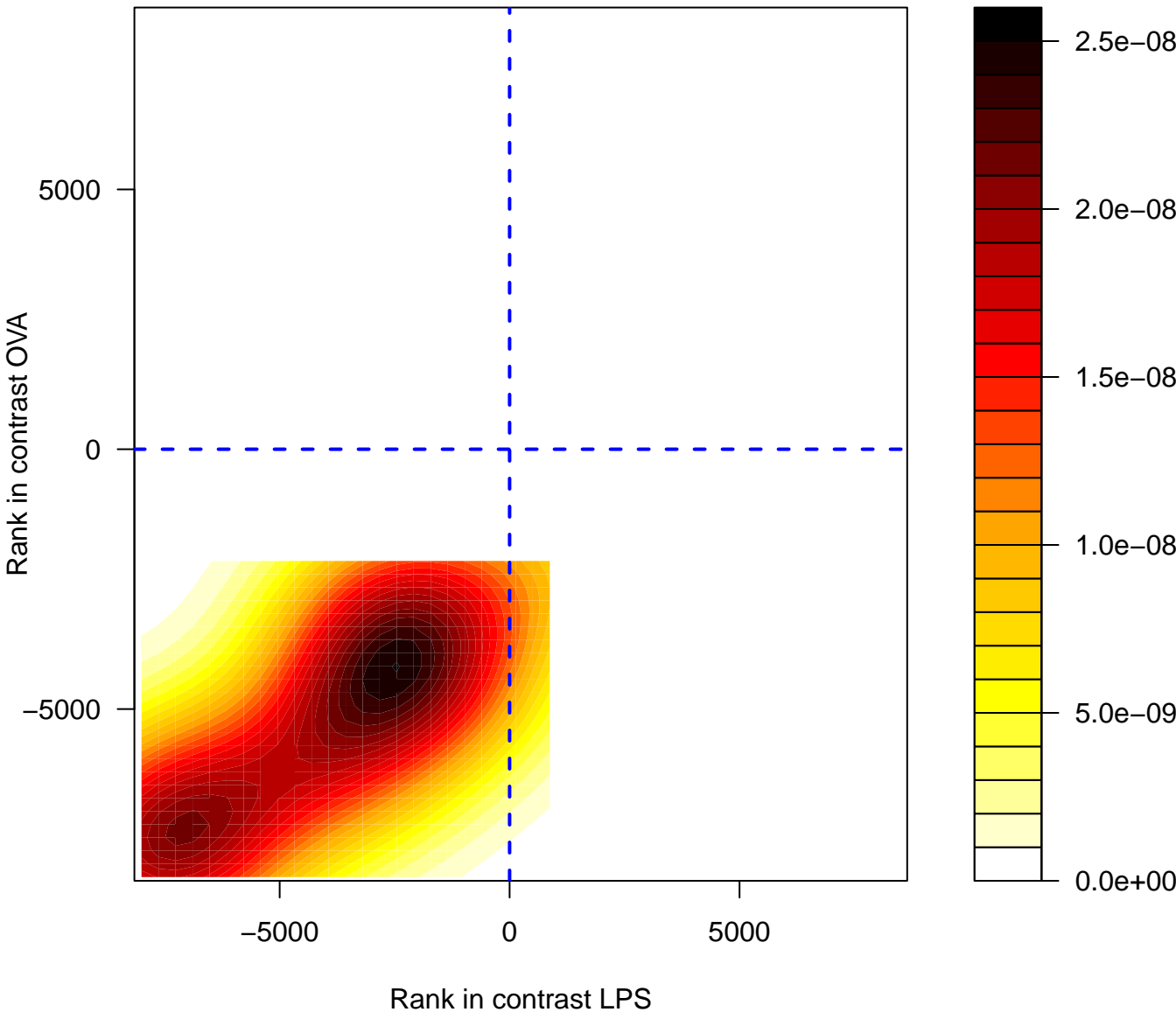
# SYNTHESIS SECRETION AND INACTIVATION OF GLUCAGON LIKE PEPTIDE 1



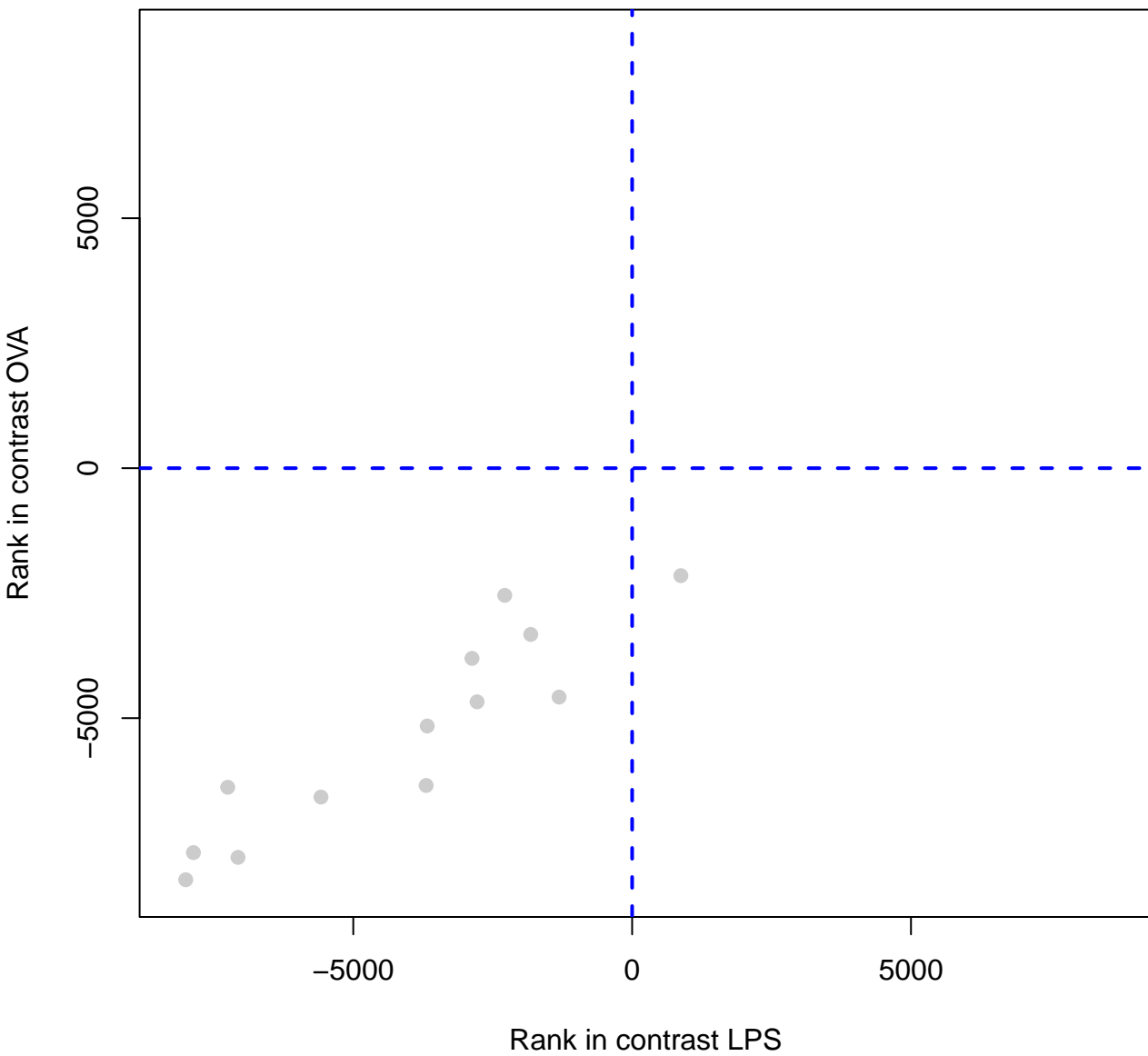
# SYNTHESIS SECRETION AND INACTIVATION C



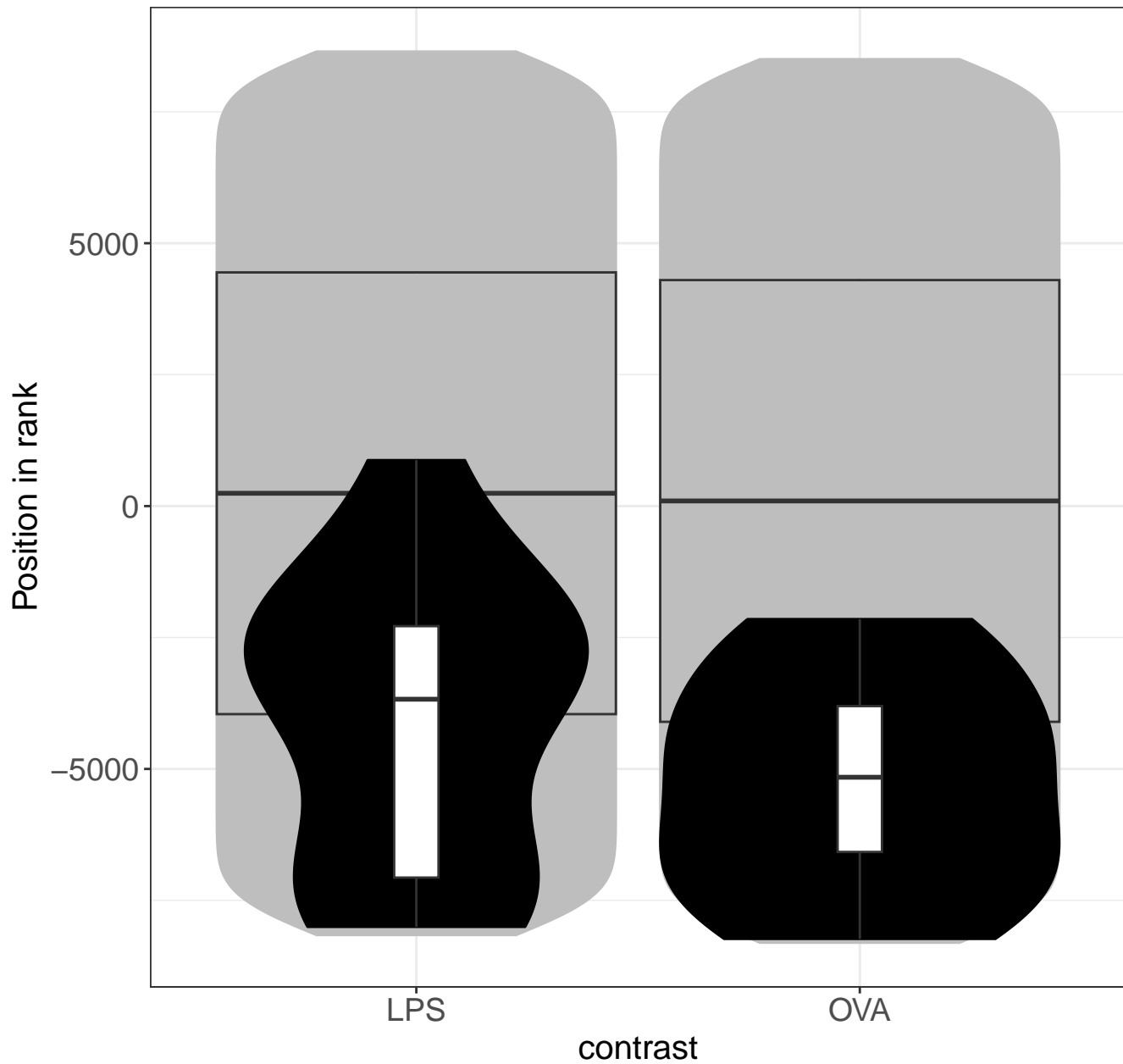
# INCRETIN SYNTHESIS SECRETION AND INACTIVATION



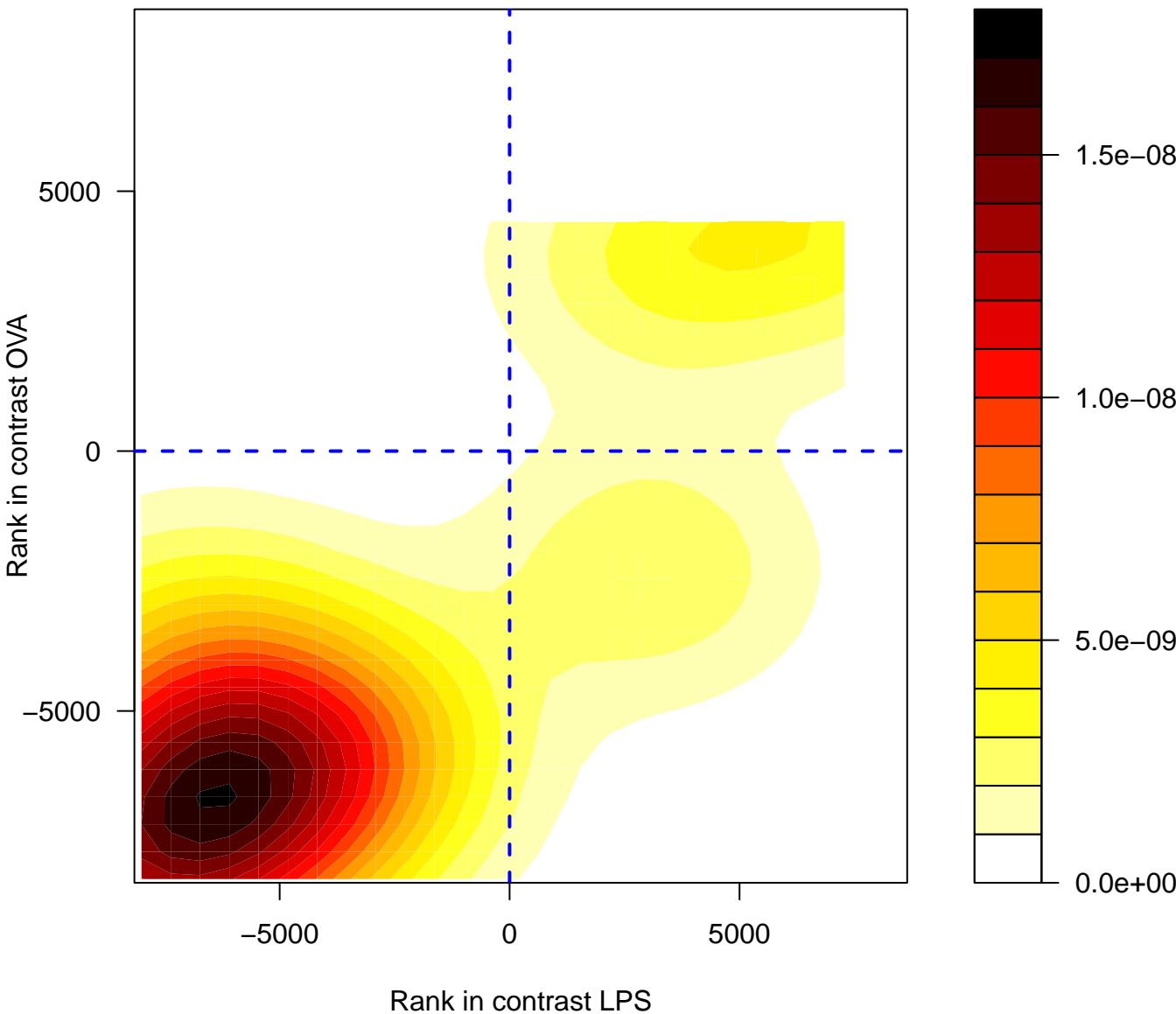
# INCRETIN SYNTHESIS SECRETION AND INACTIVATION



# INCRETIN SYNTHESIS SECRETION AND INAC

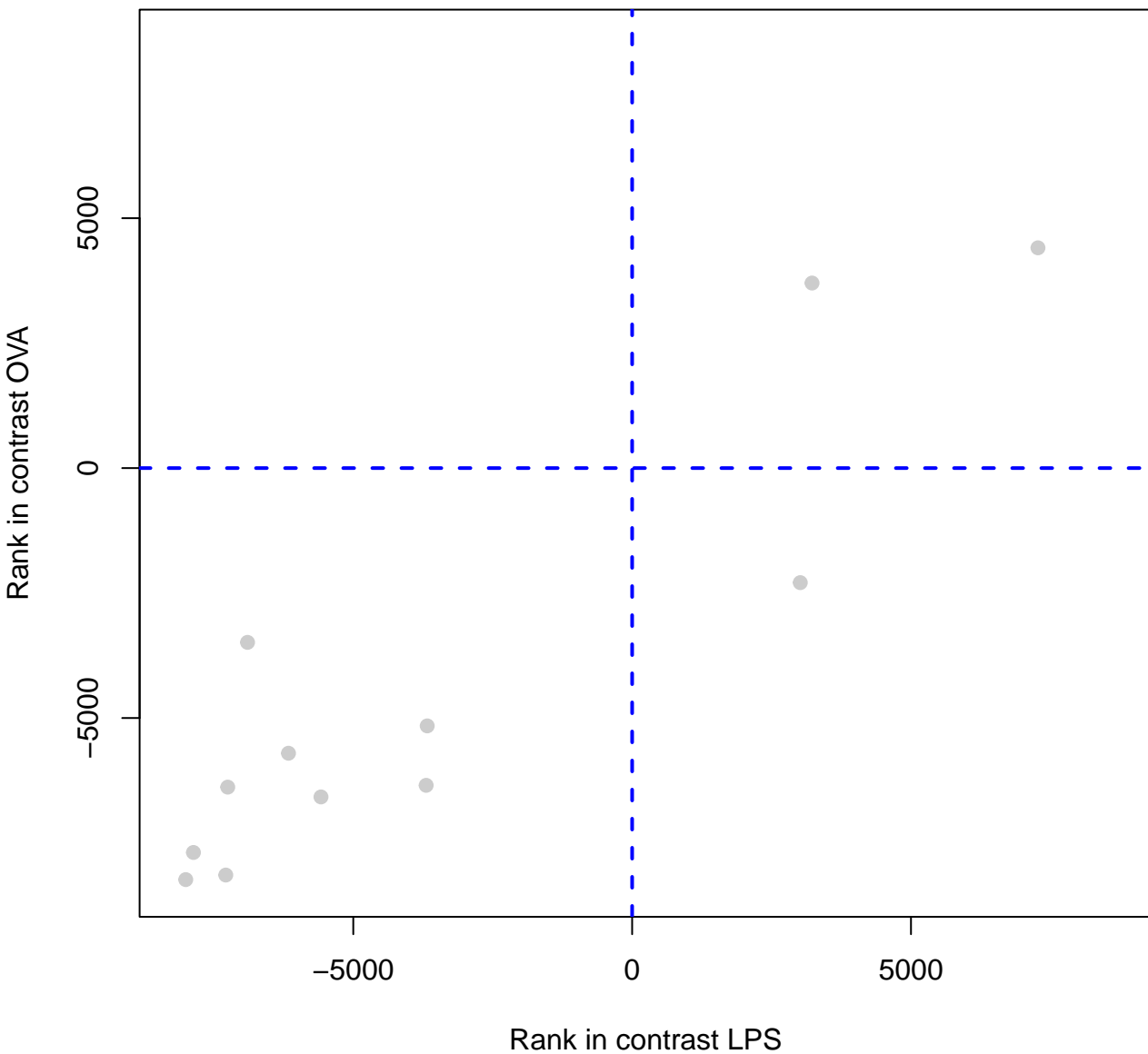


# SYNTHESIS SECRETION AND DEACYLATION OF GHREL

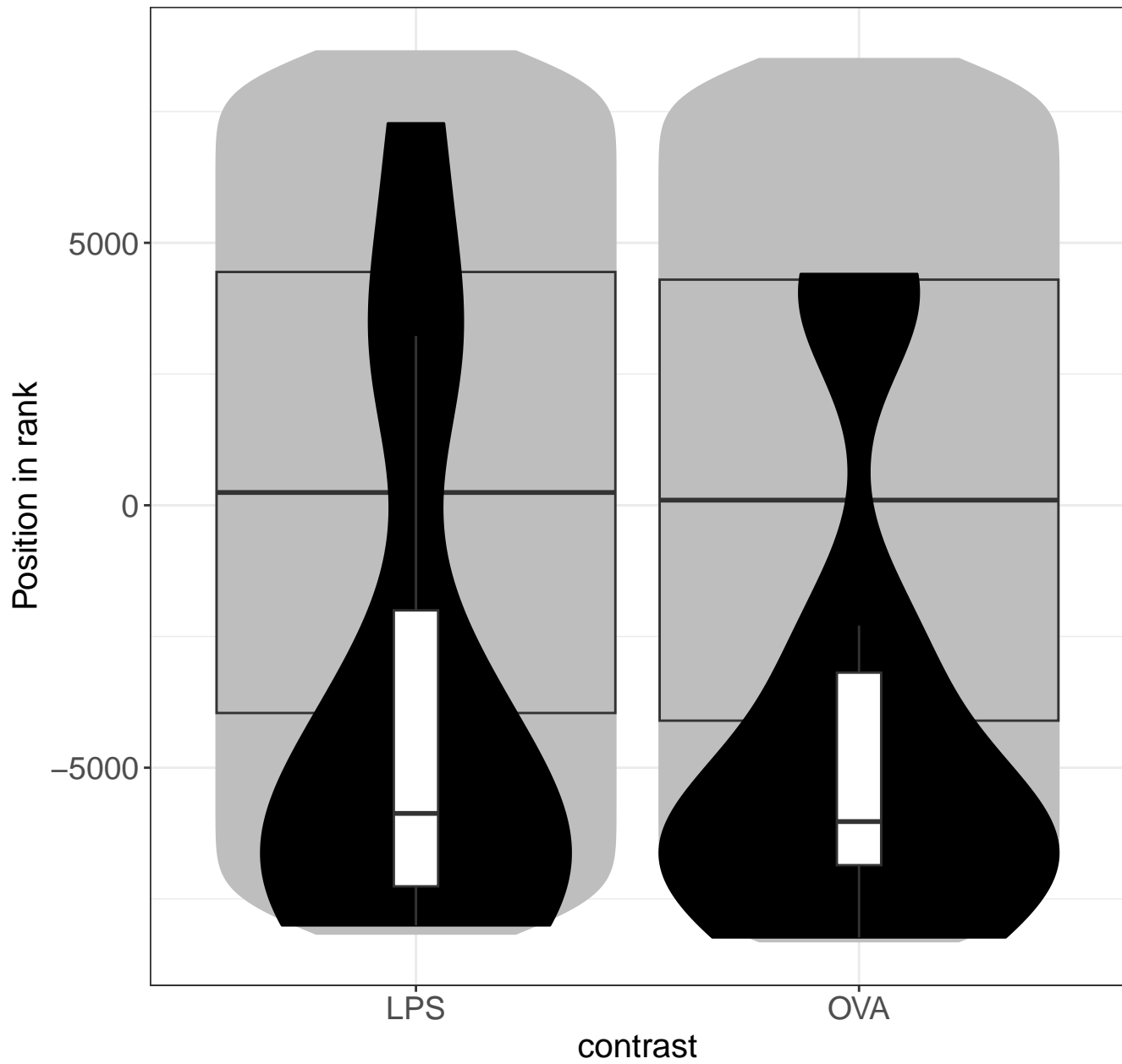




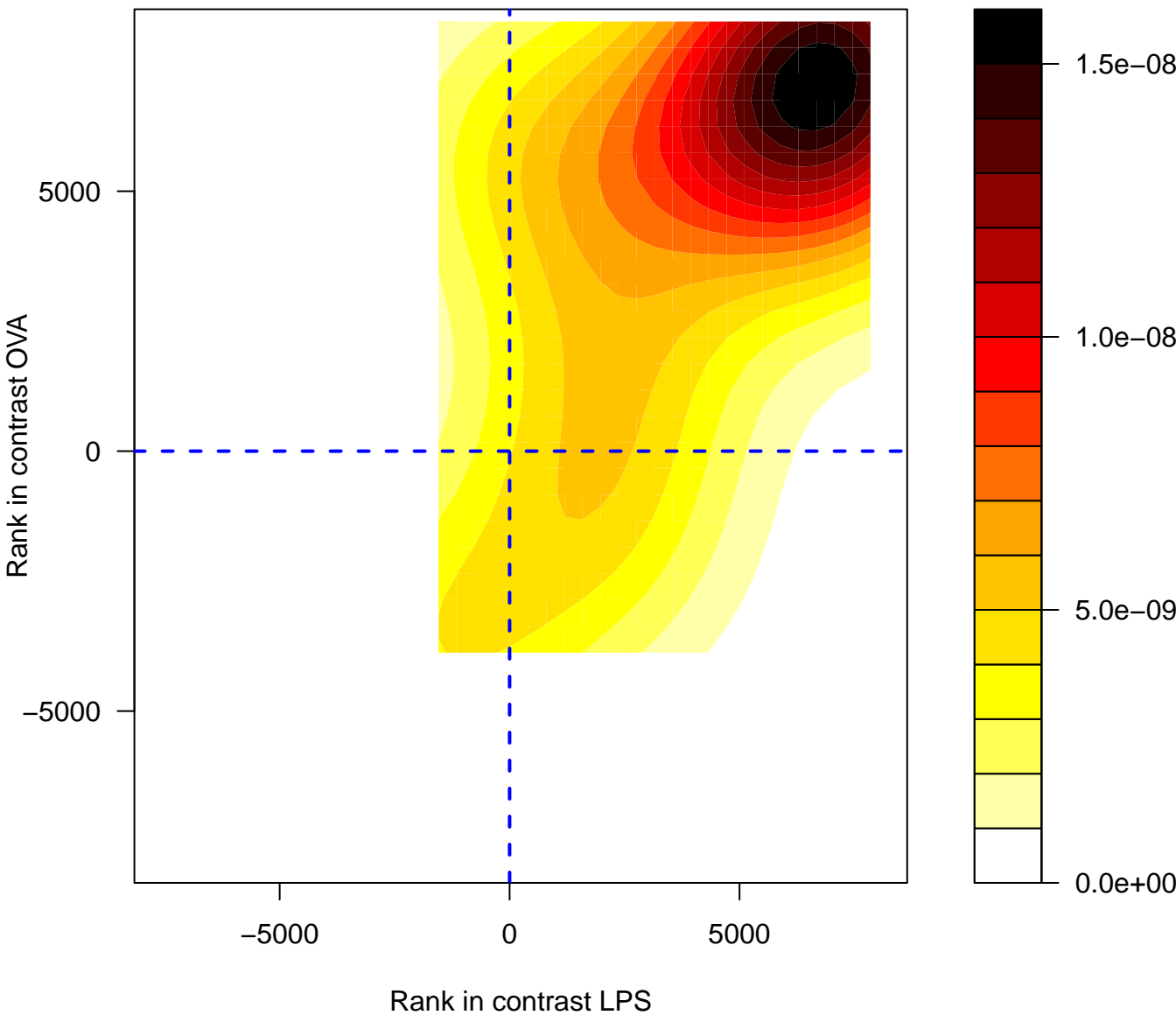
# SYNTHESIS SECRETION AND DEACYLATION OF GHRELIN



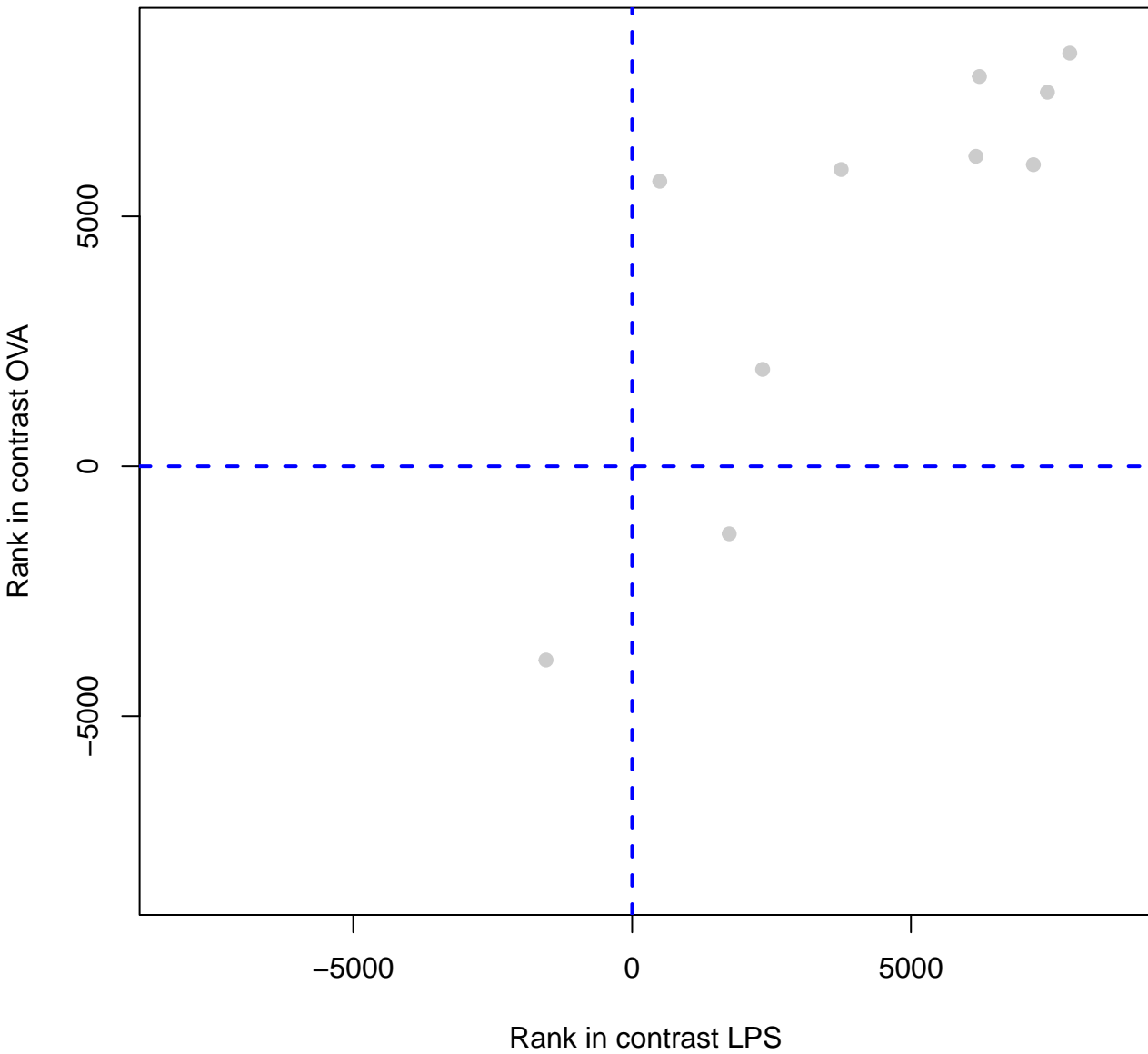
# SYNTHESIS SECRETION AND DEACYLATION C



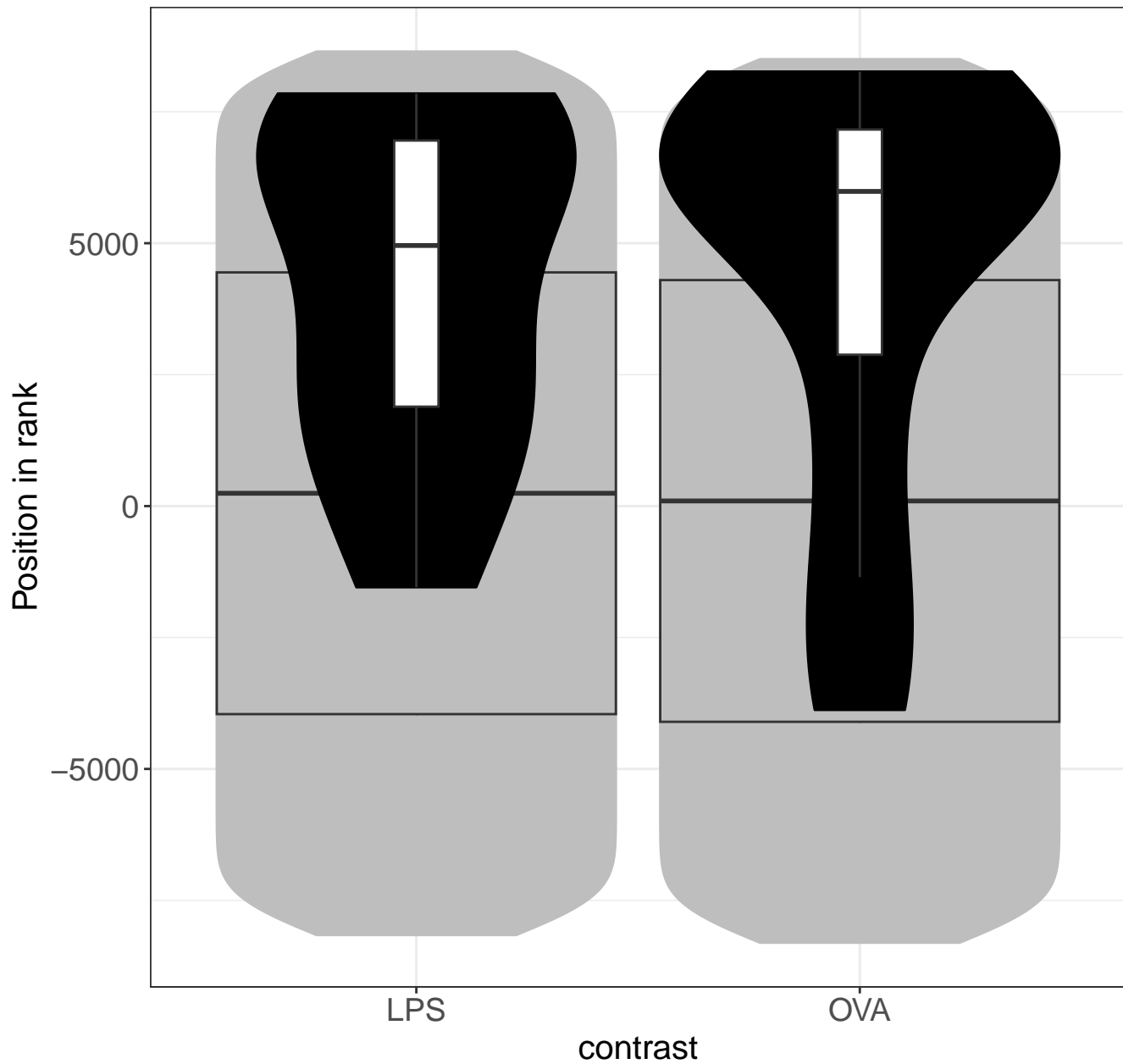
# ADENYLATE CYCLASE ACTIVATING PATHWAY



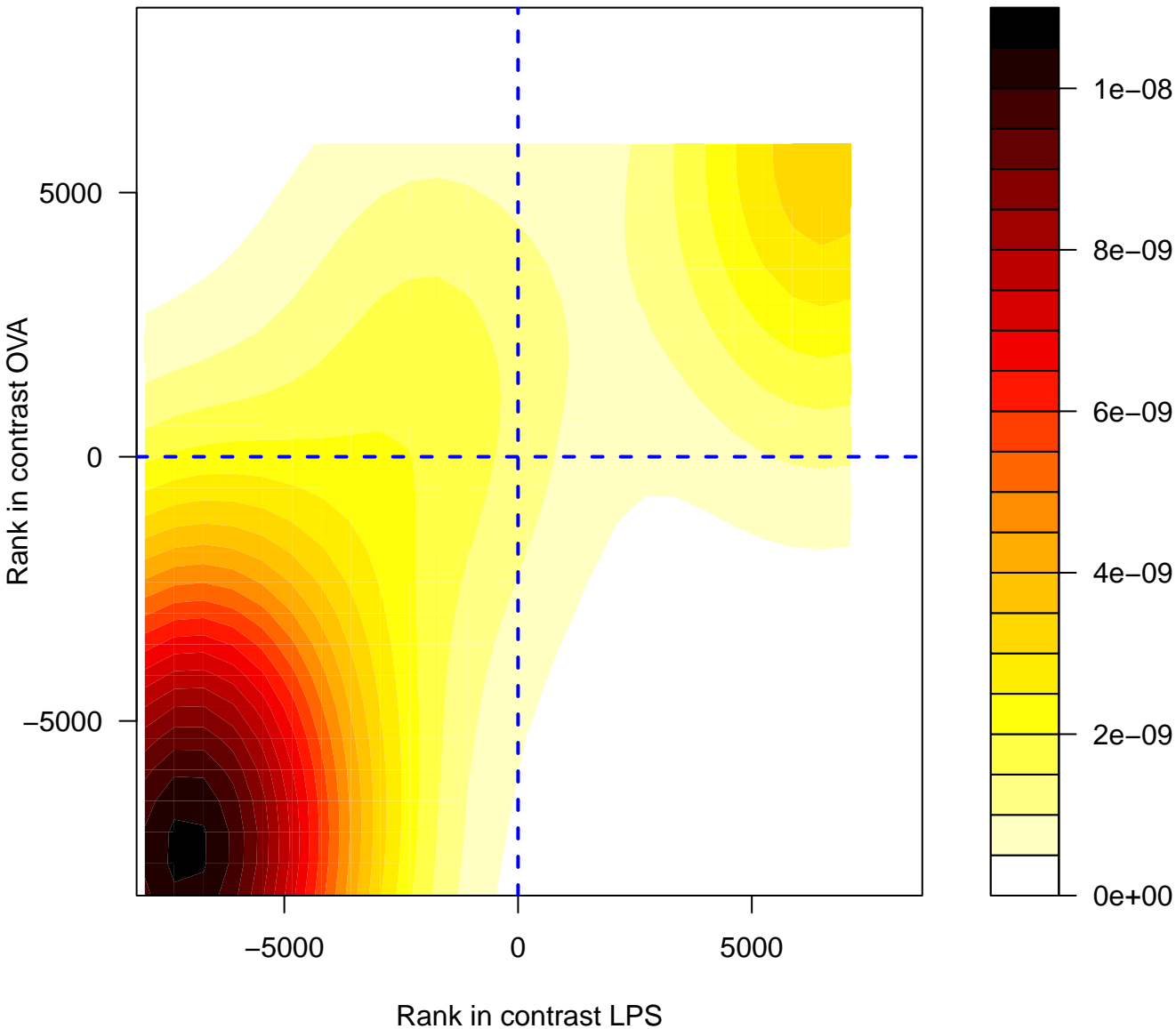
# ADENYLATE CYCLASE ACTIVATING PATHWAY



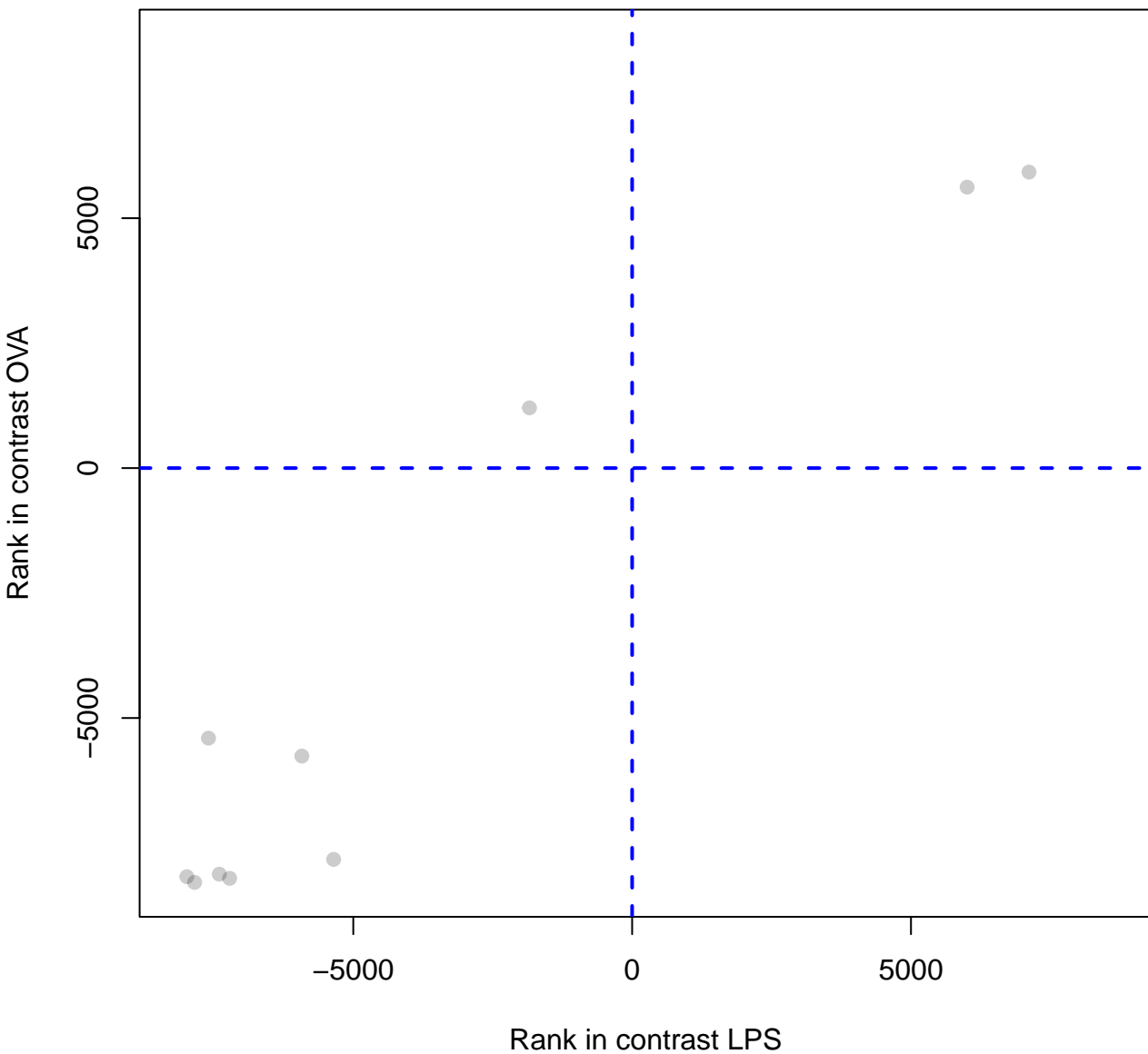
# ADENYLATE CYCLASE ACTIVATING PATHWAY



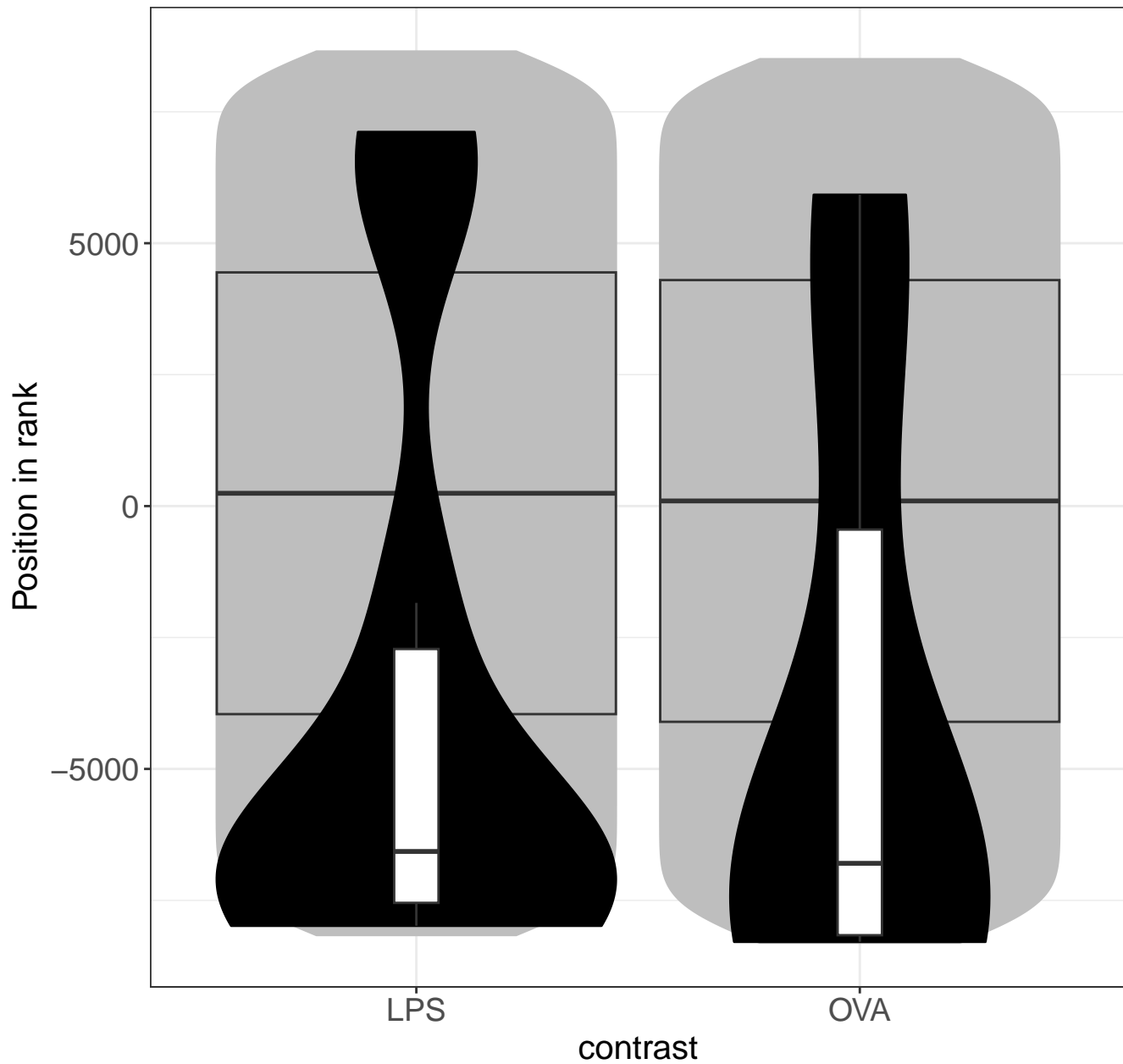
# APOPTOSIS INDUCED DNA FRAGMENTATION



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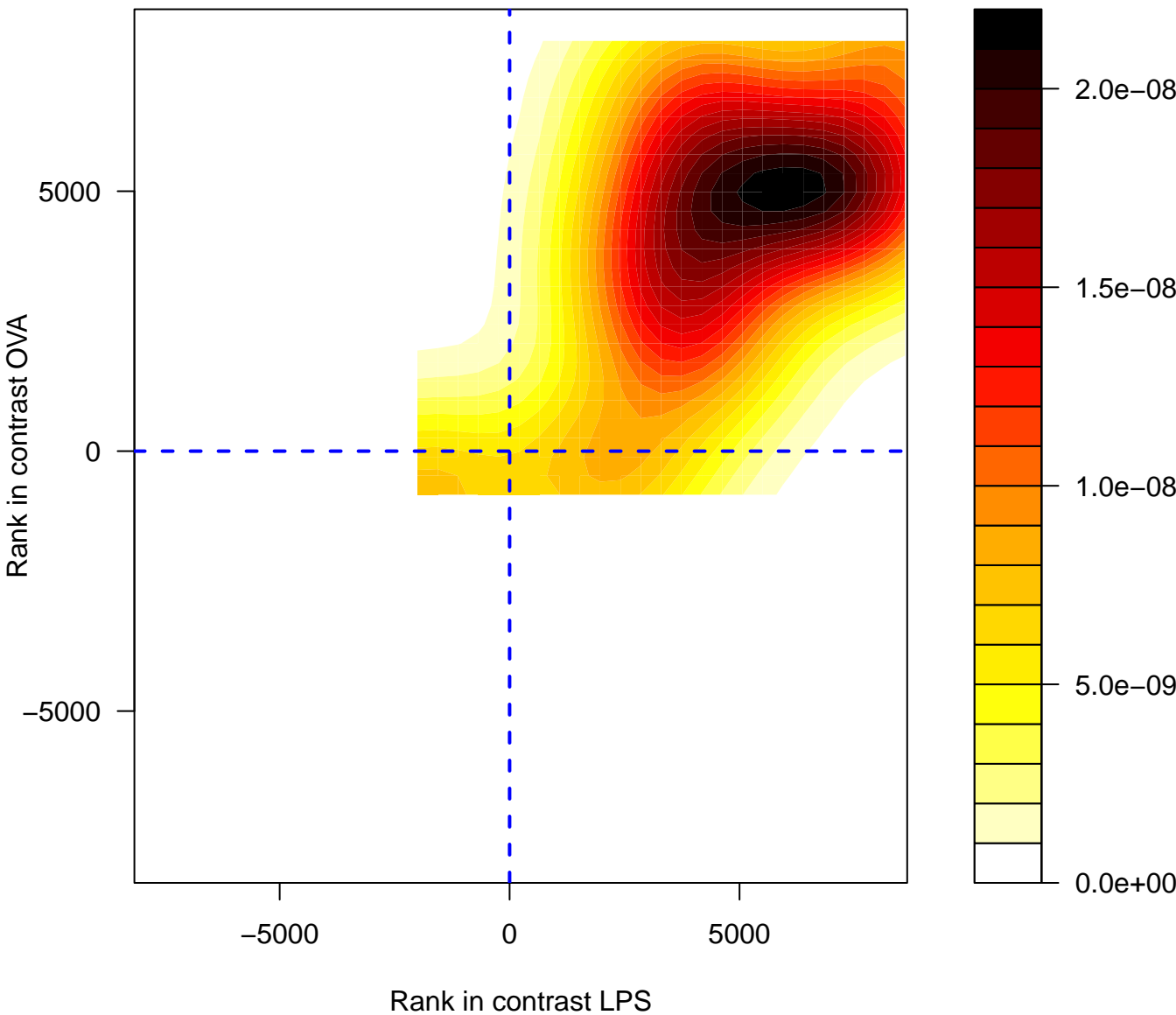


# APOPTOSIS INDUCED DNA FRAGMENTATION

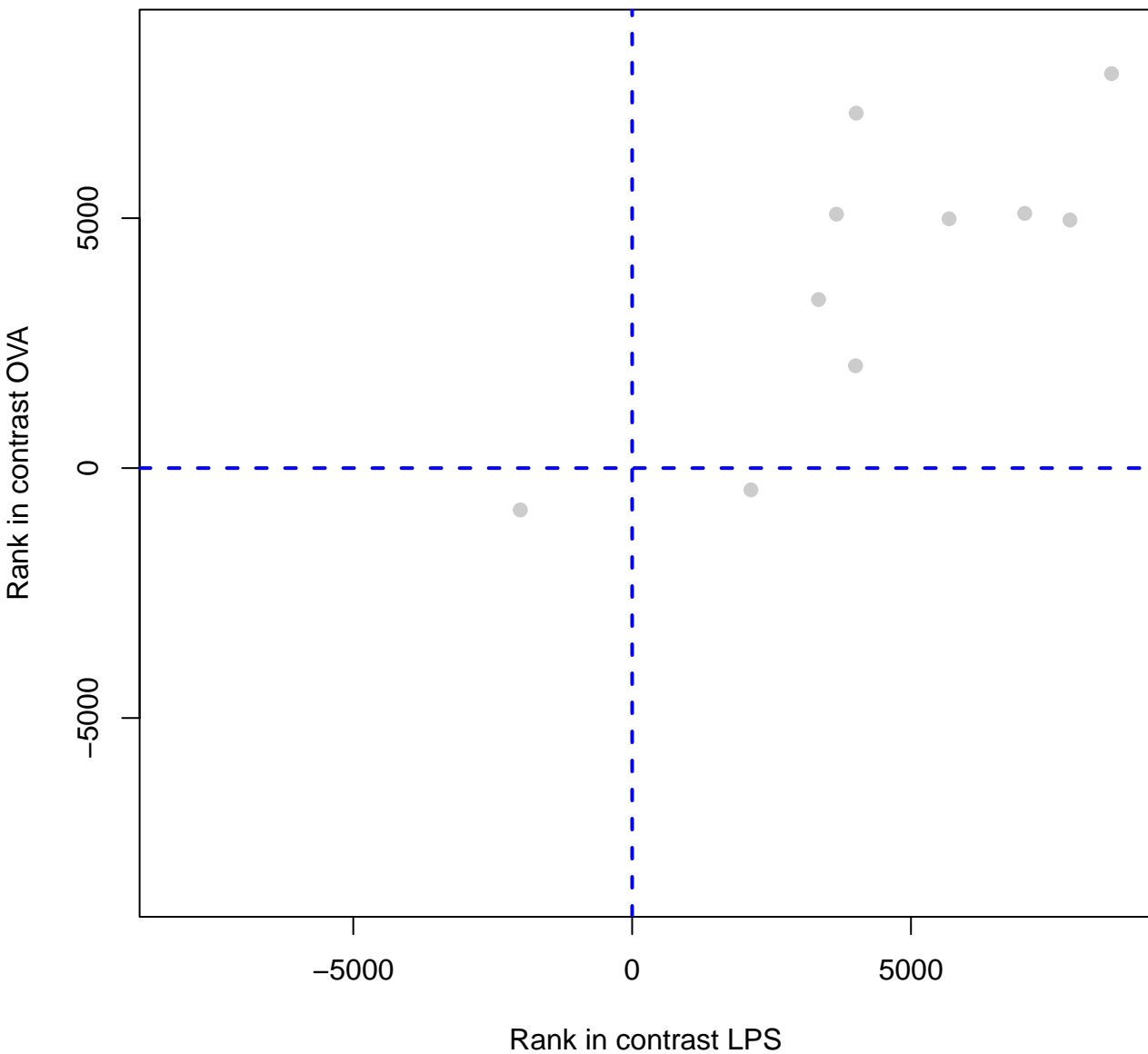




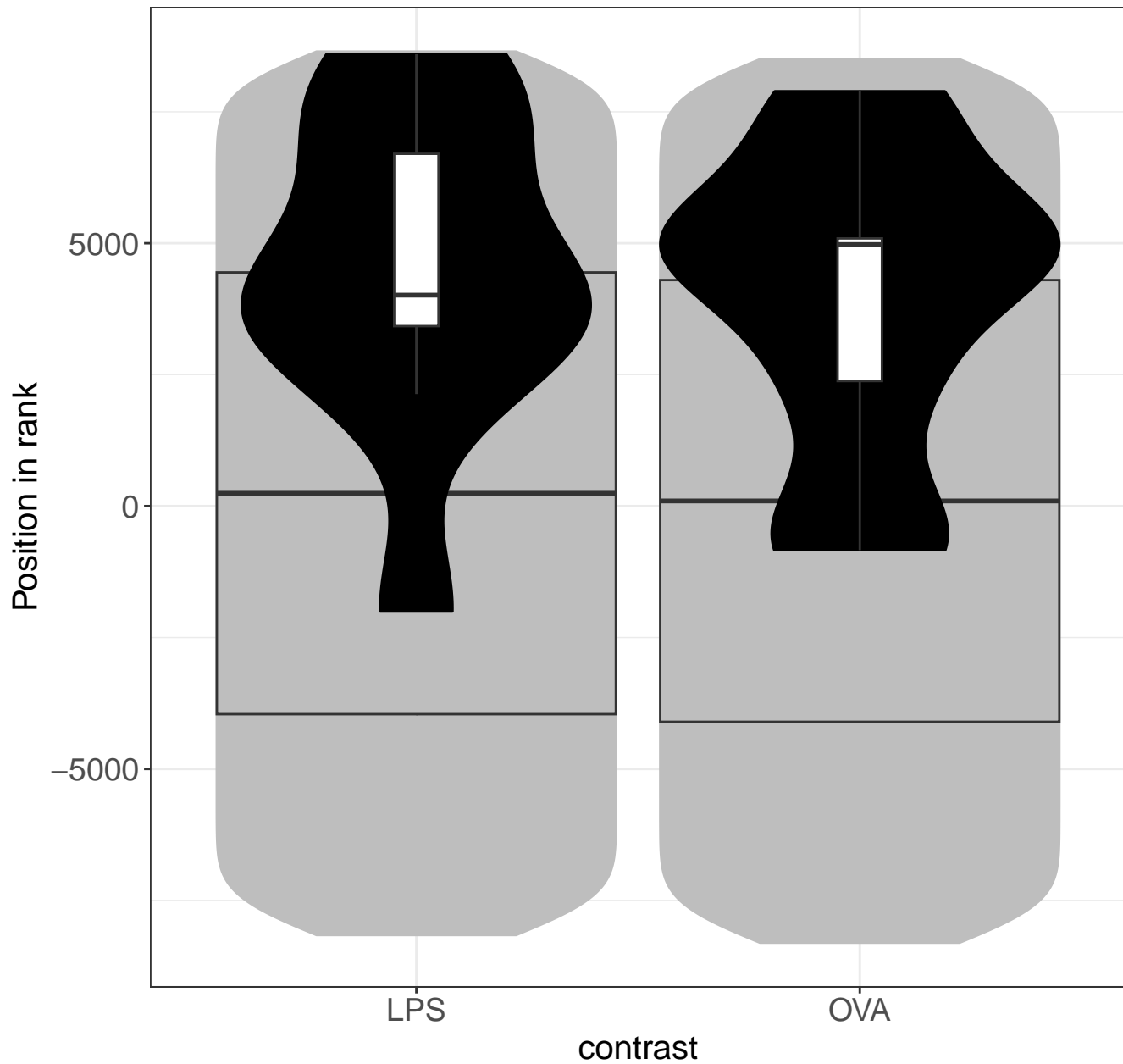
# TERMINATION OF O GLYCAN BIOSYNTHESIS



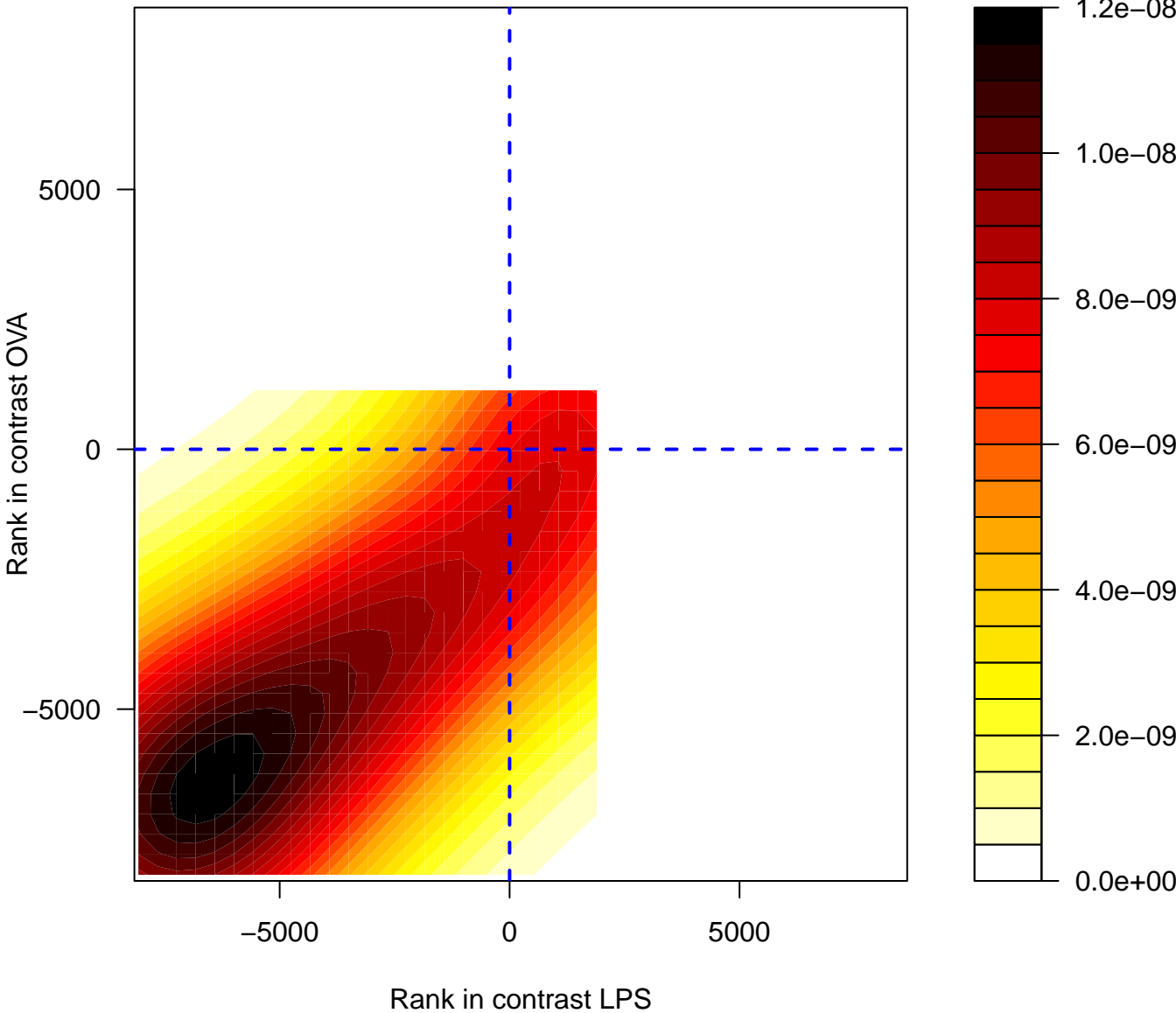
# TERMINATION OF O GLYCAN BIOSYNTHESIS



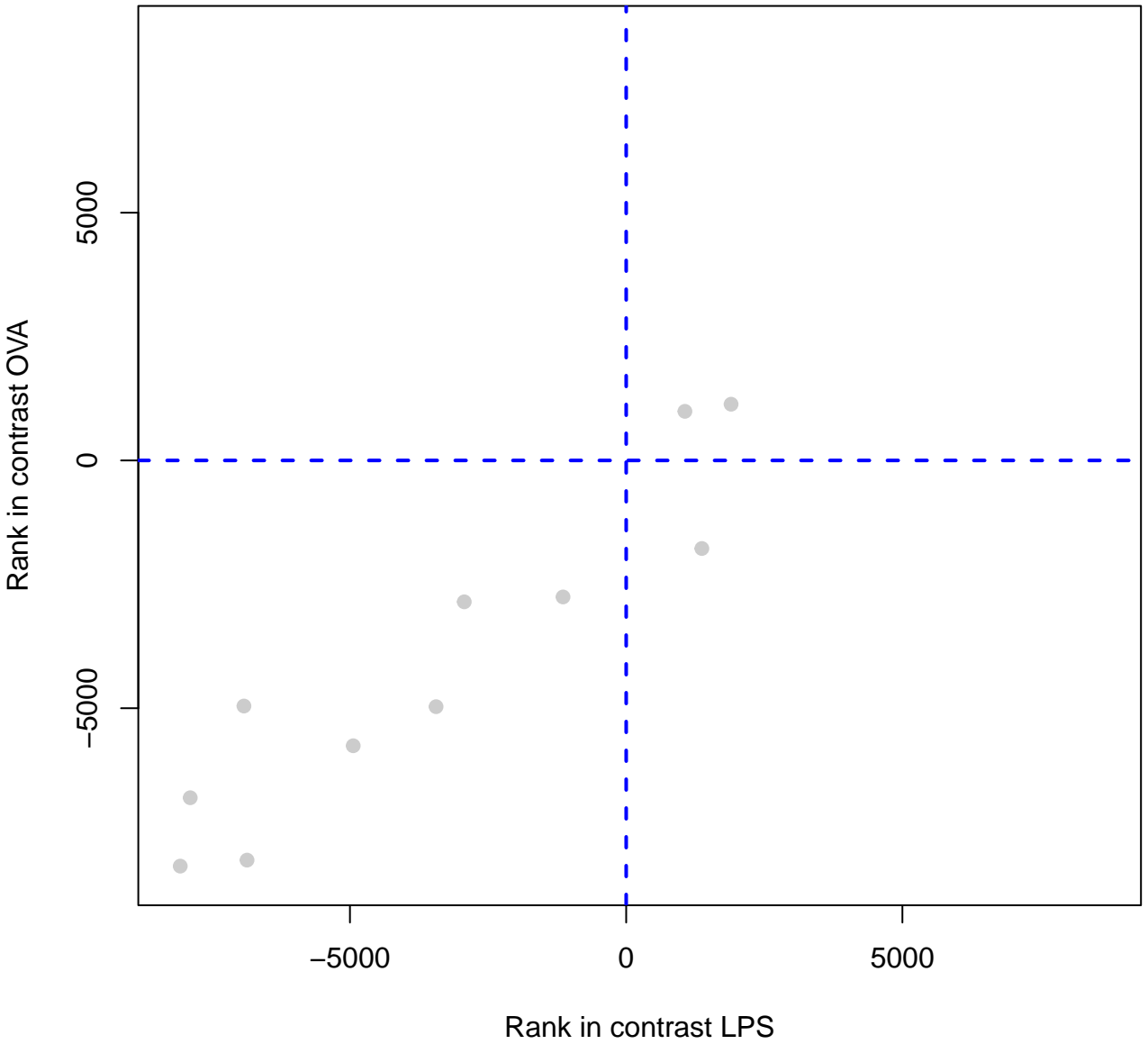
# TERMINATION OF O GLYCAN BIOSYNTHESIS



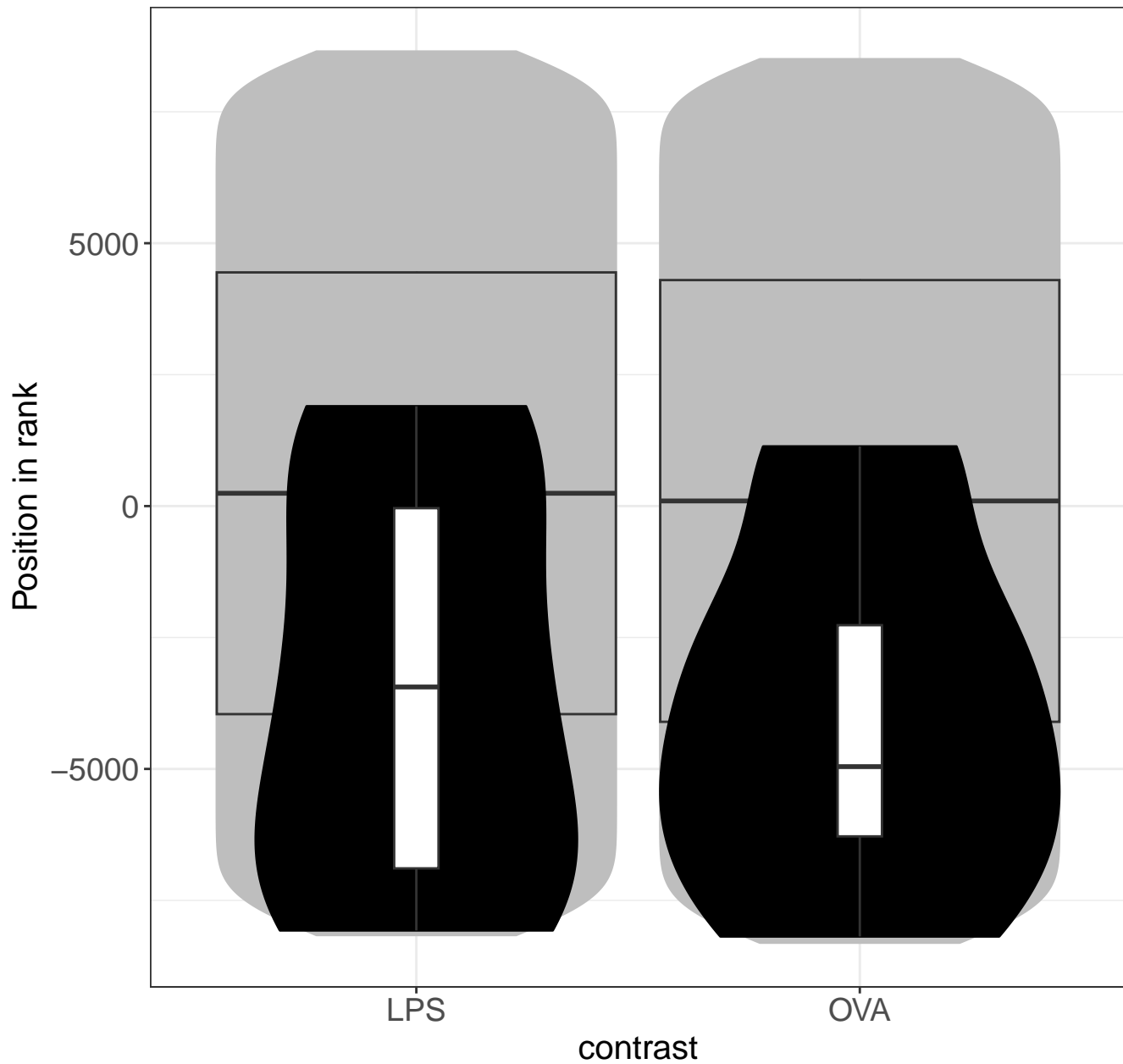
# CD28 DEPENDENT VAV1 PATHWAY



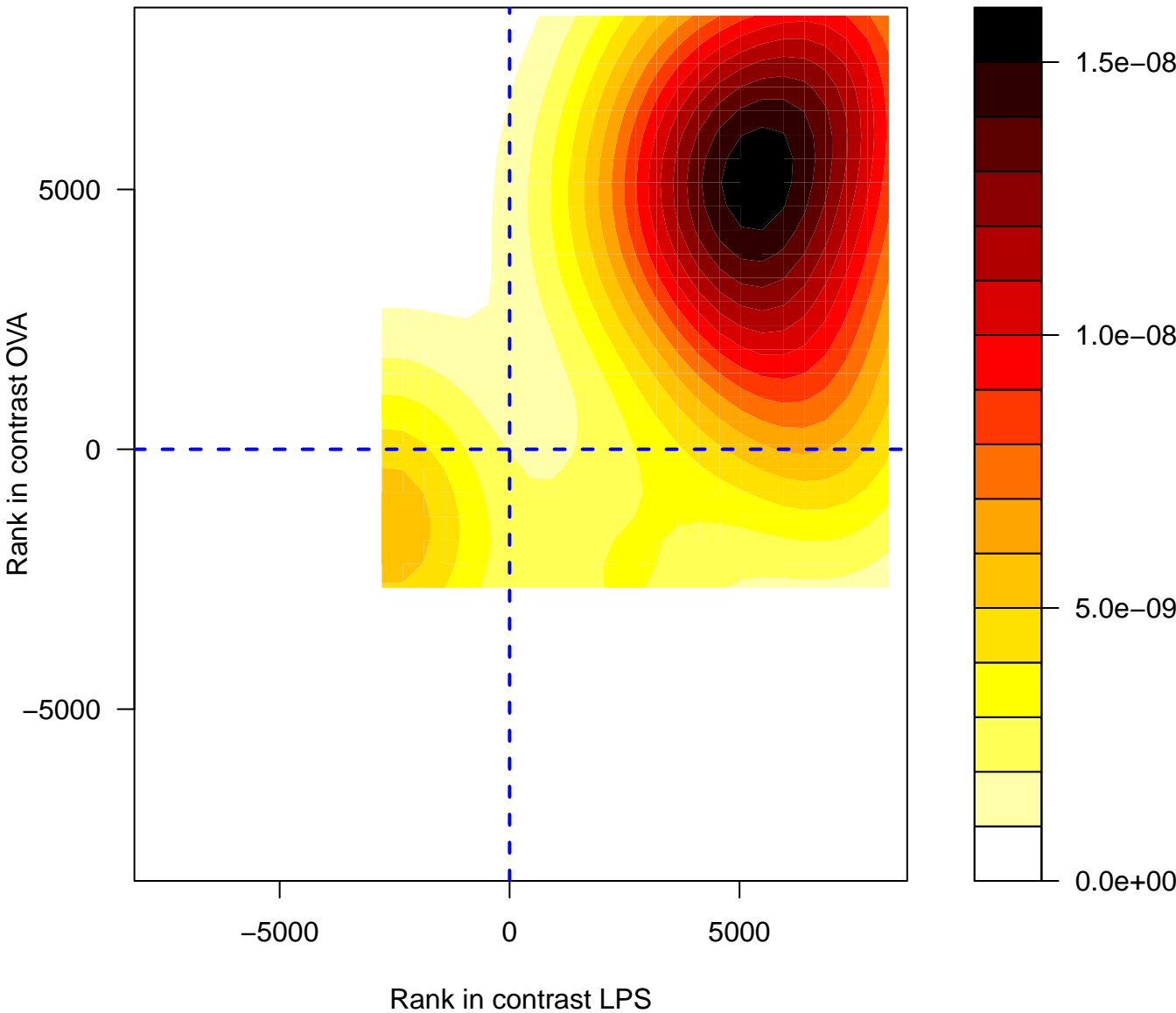
# CD28 DEPENDENT VAV1 PATHWAY



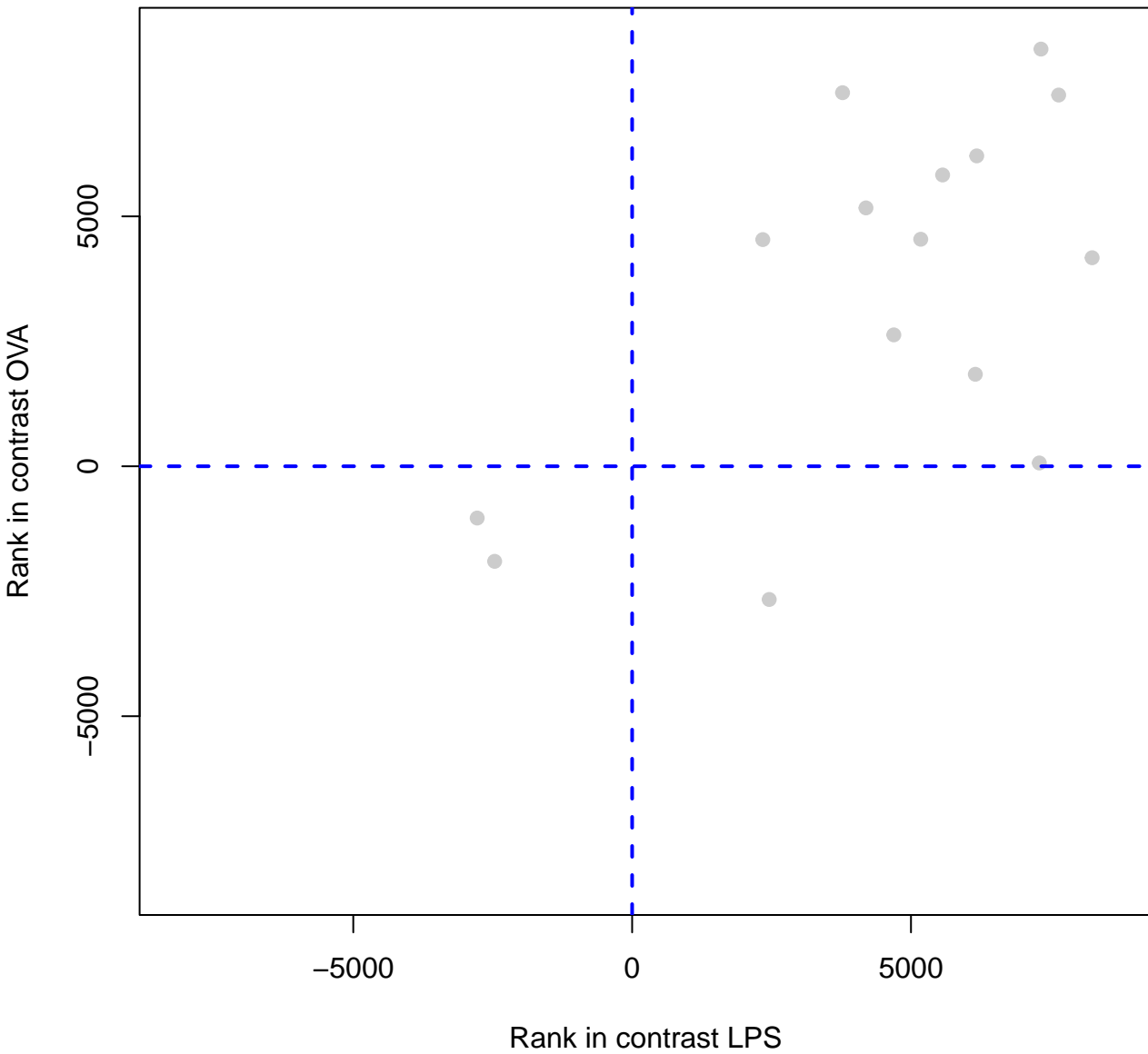
# CD28 DEPENDENT VAV1 PATHWAY



# CROSSLINKING OF COLLAGEN FIBRILS

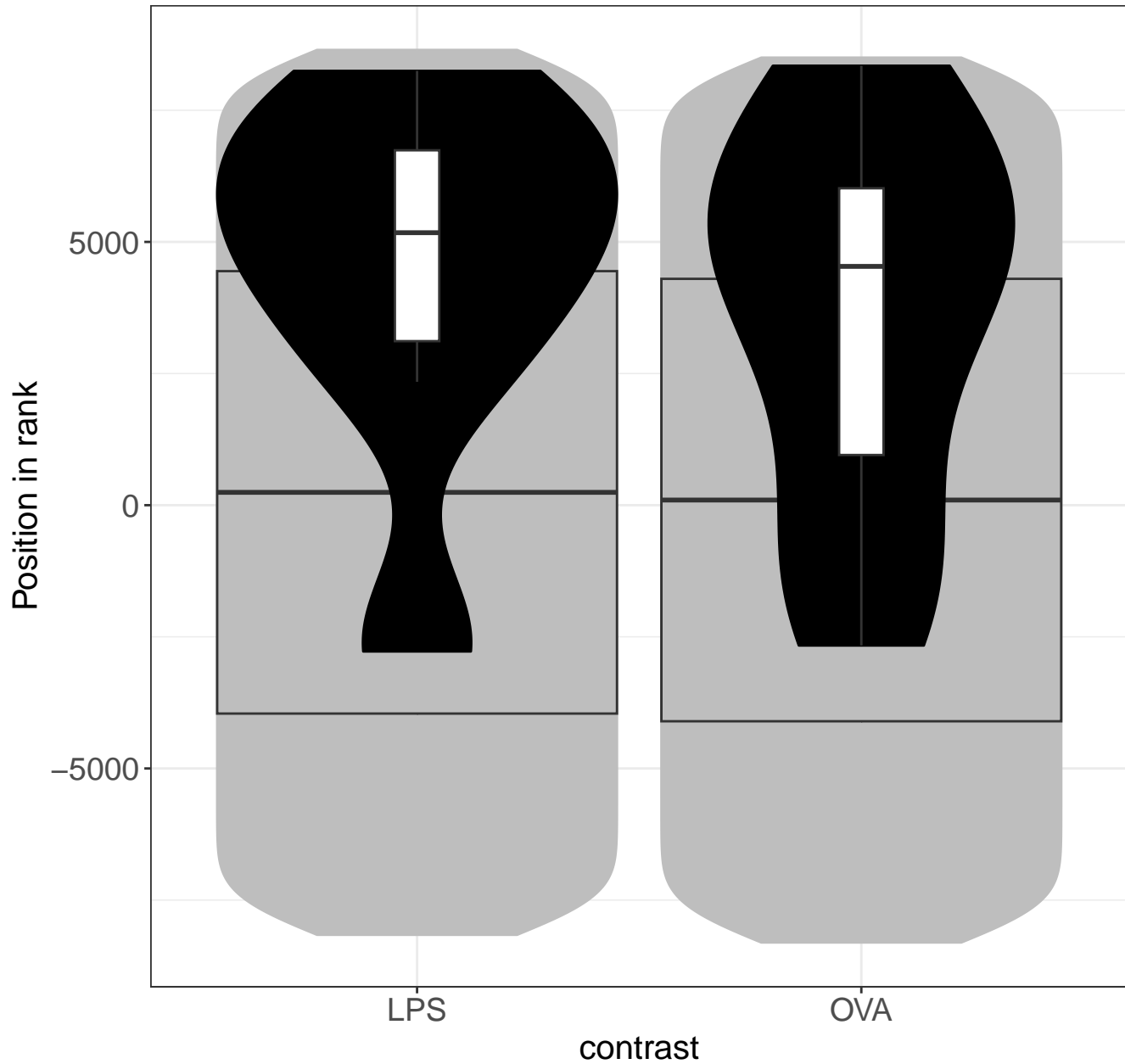


# CROSSLINKING OF COLLAGEN FIBRILS

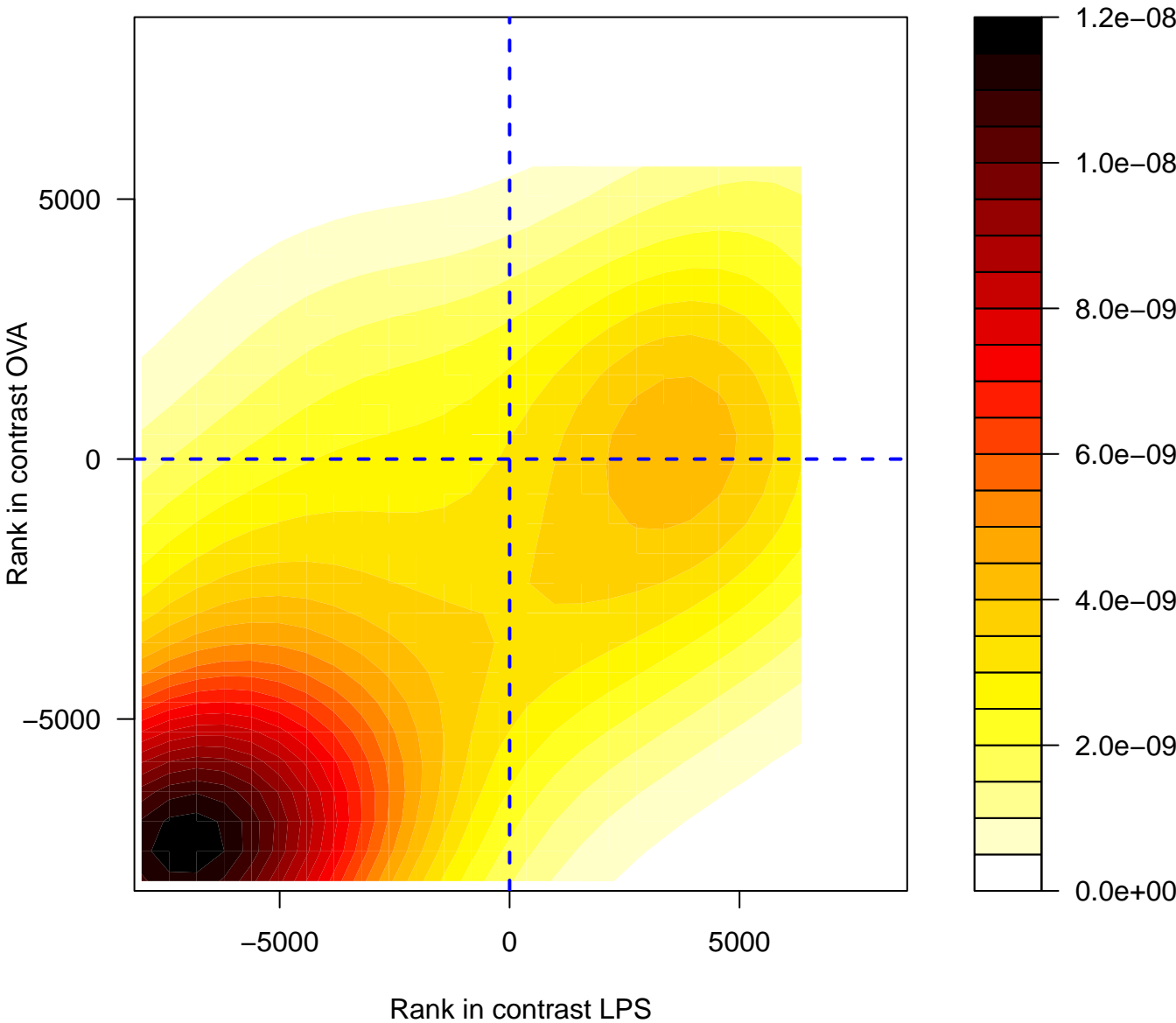




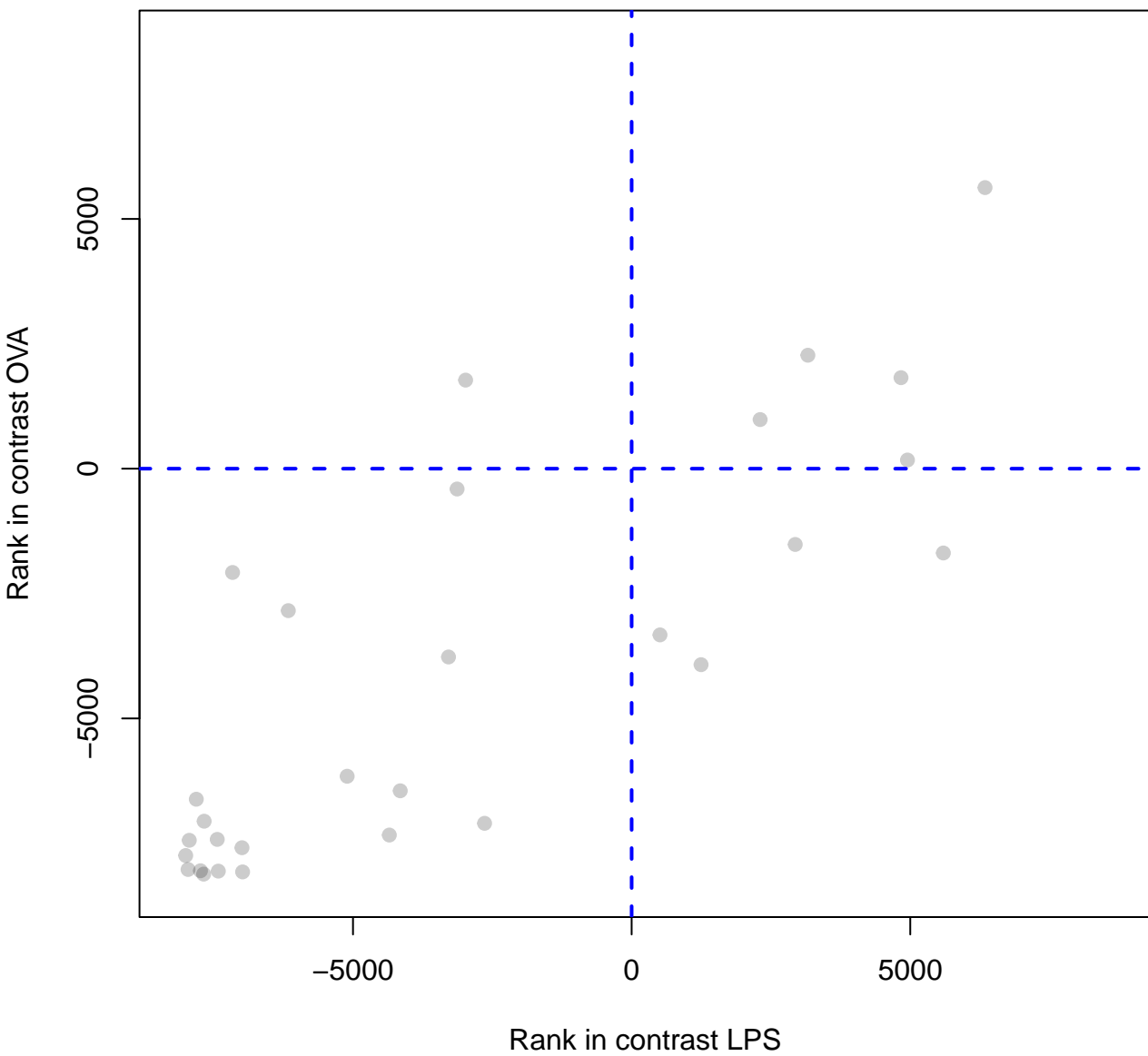
# CROSSLINKING OF COLLAGEN FIBRILS



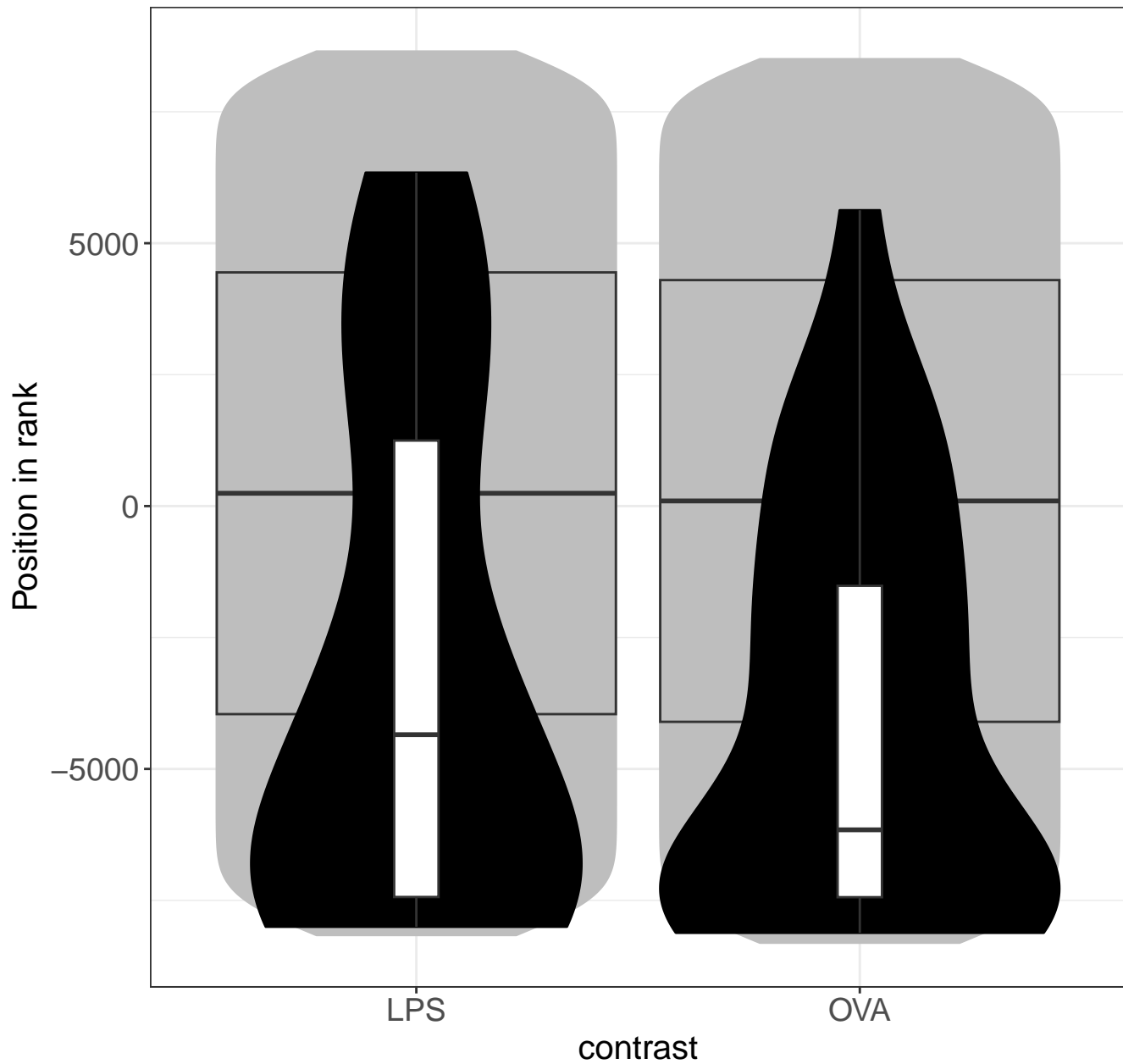
# SYNTHESIS OF ACTIVE UBIQUITIN ROLES OF E1 AND E2 EN



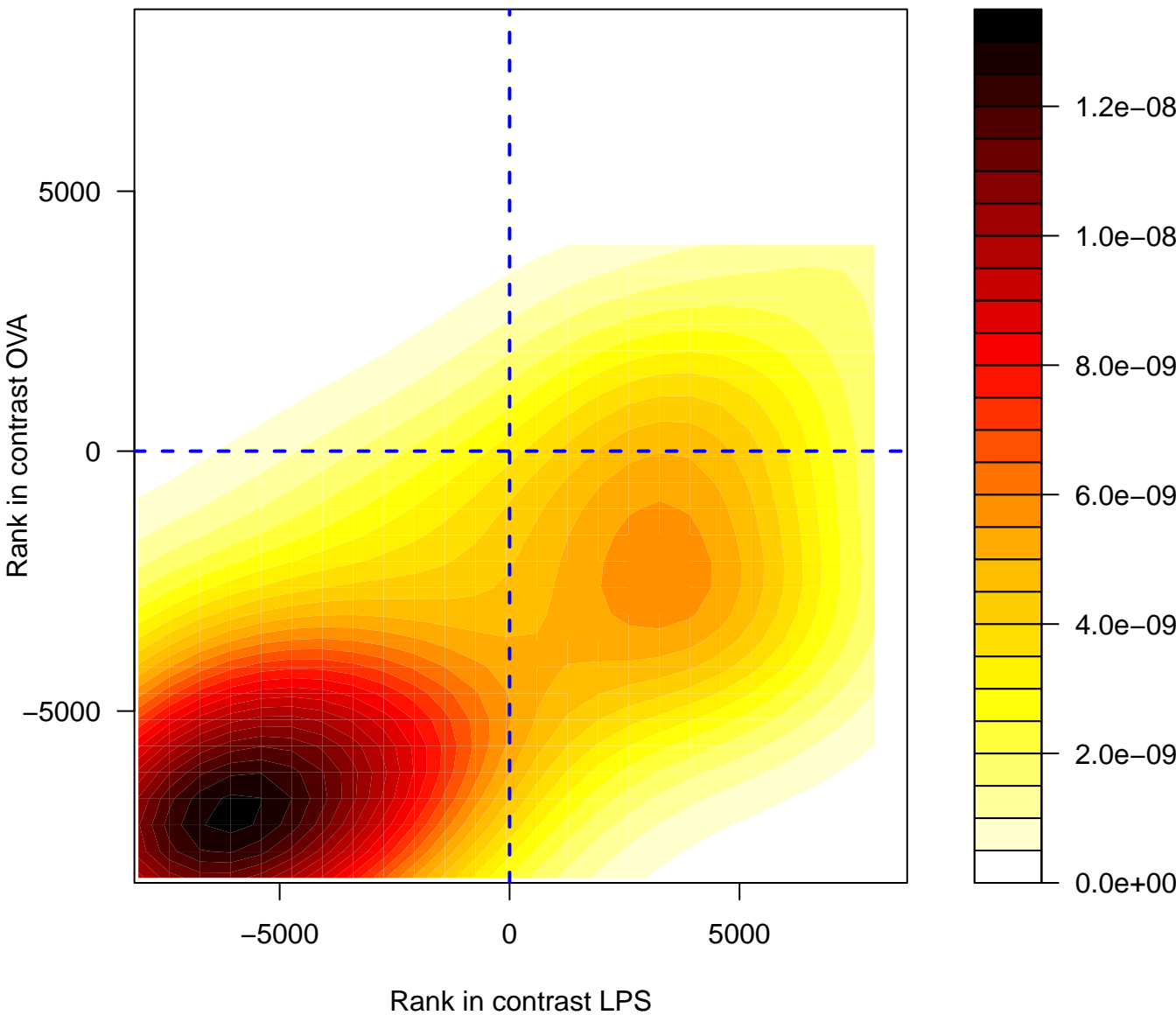
# SYNTHESIS OF ACTIVE UBIQUITIN ROLES OF E1 AND E2 ENZYMES



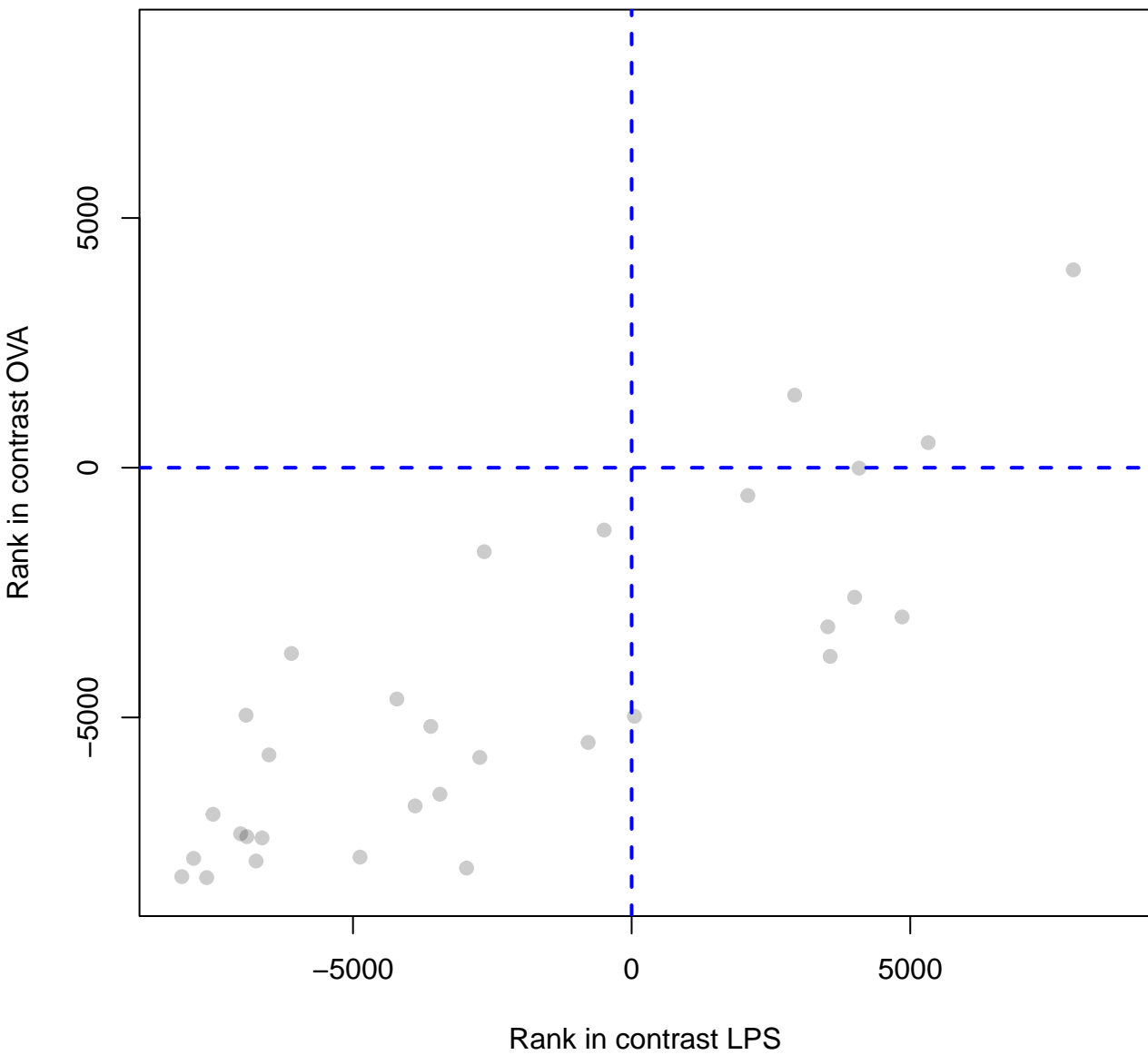
# SYNTHESIS OF ACTIVE UBIQUITIN ROLES OF



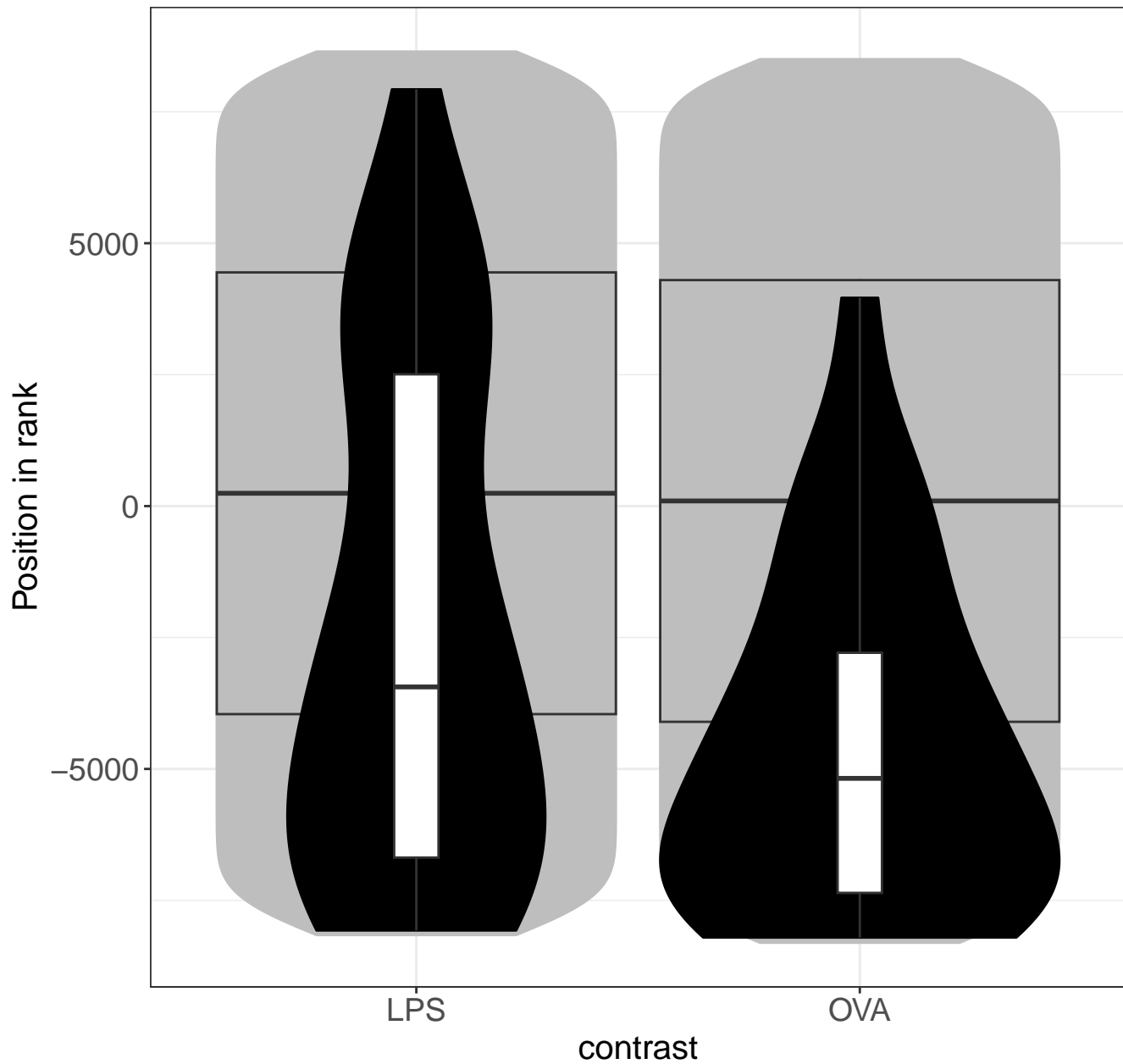
# GENE EXPRESSION BY JAK STAT SIGNALING AFTER INTERLEU



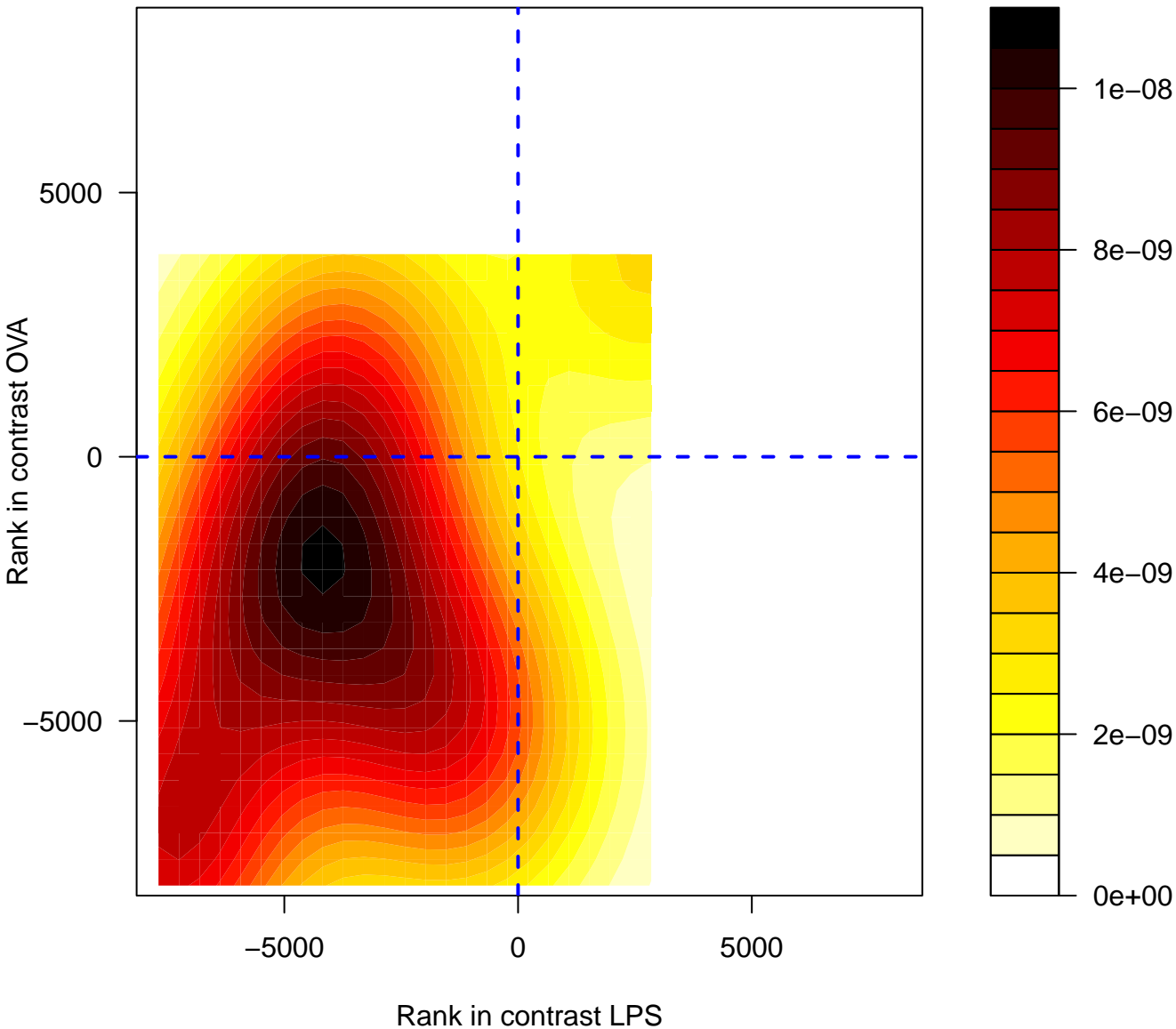
# PROTEIN EXPRESSION BY JAK STAT SIGNALING AFTER INTERLEUKIN 12



# GENE AND PROTEIN EXPRESSION BY JAK ST

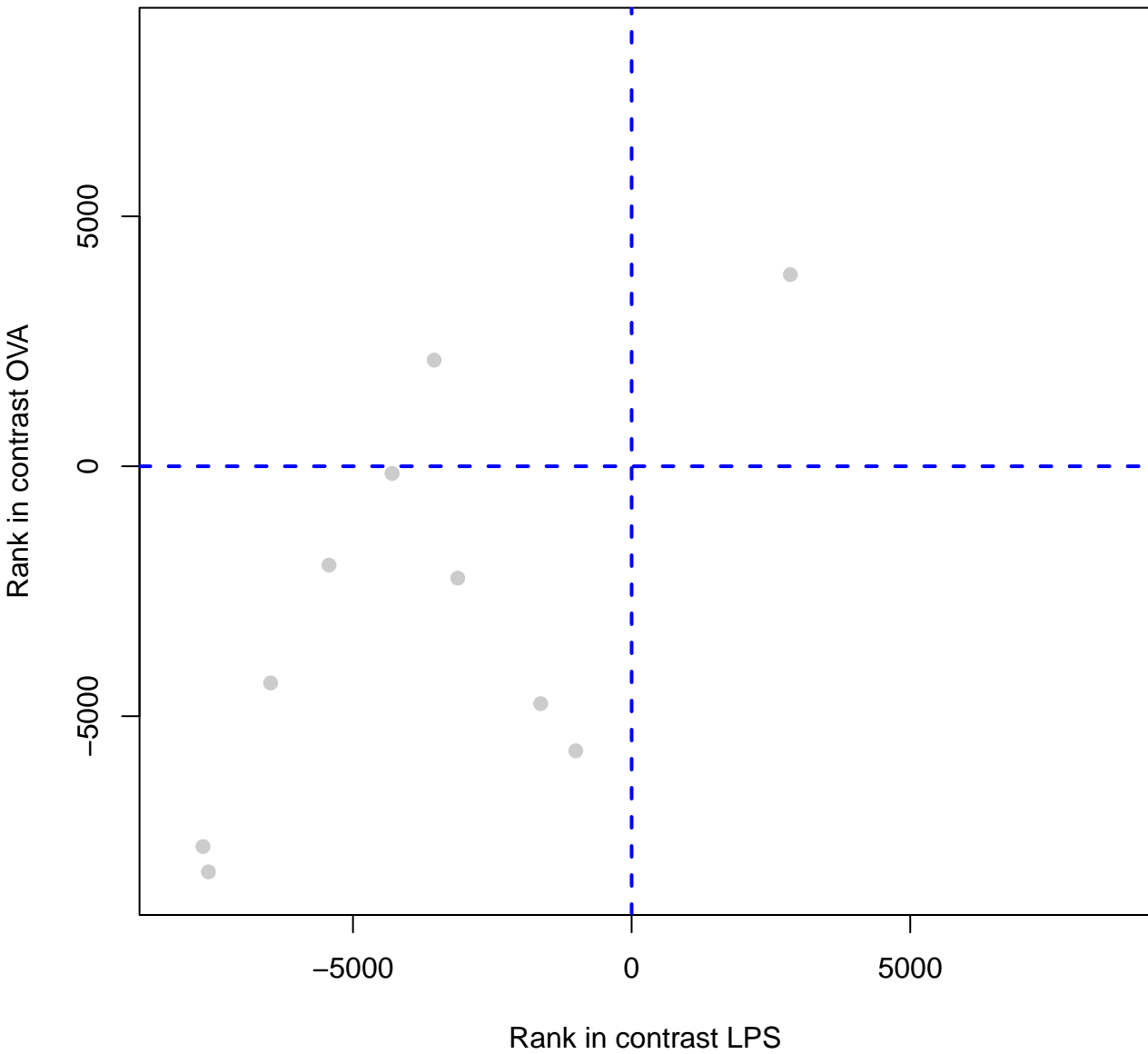


# PROCESSING AND ACTIVATION OF SUMO

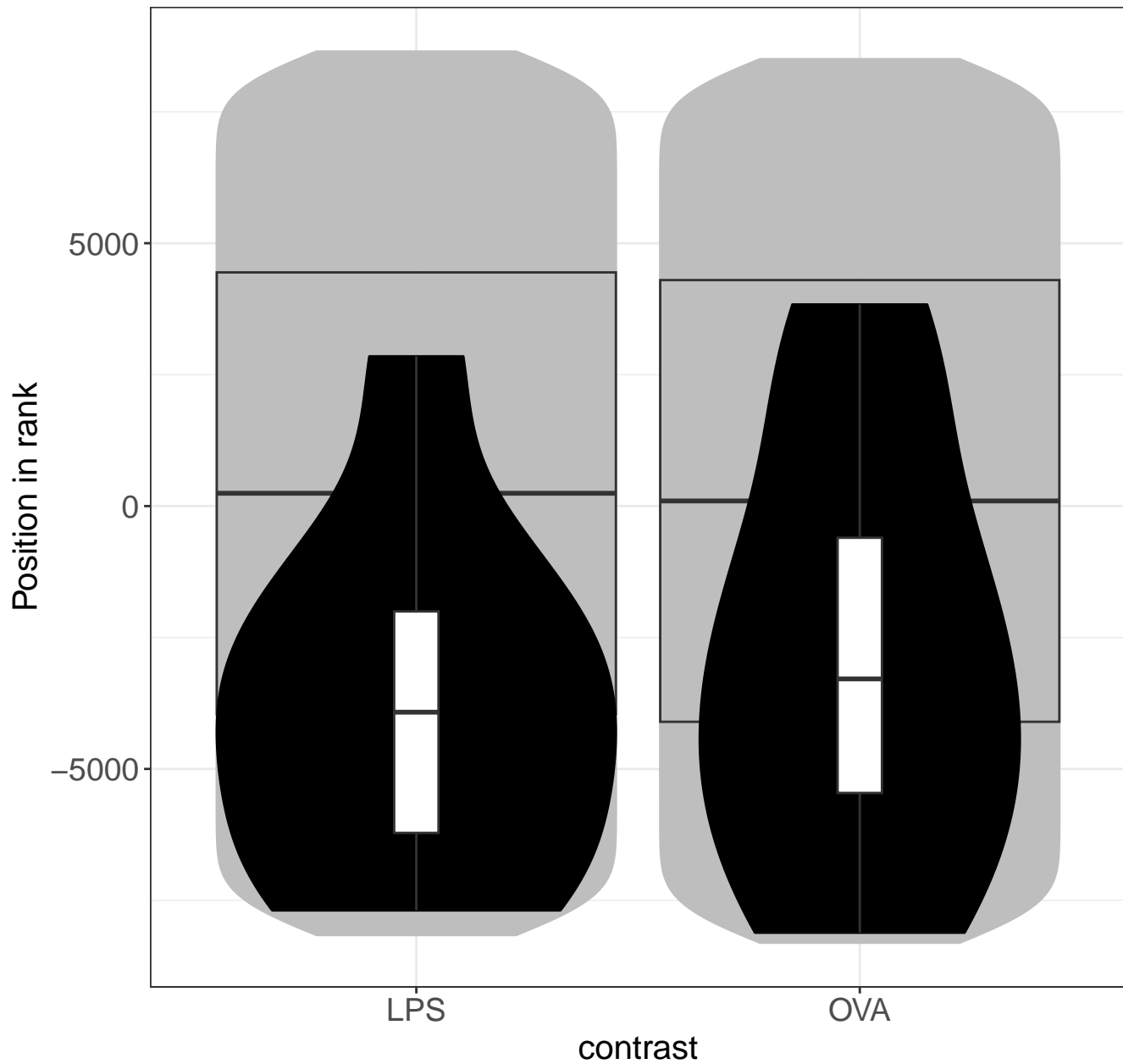




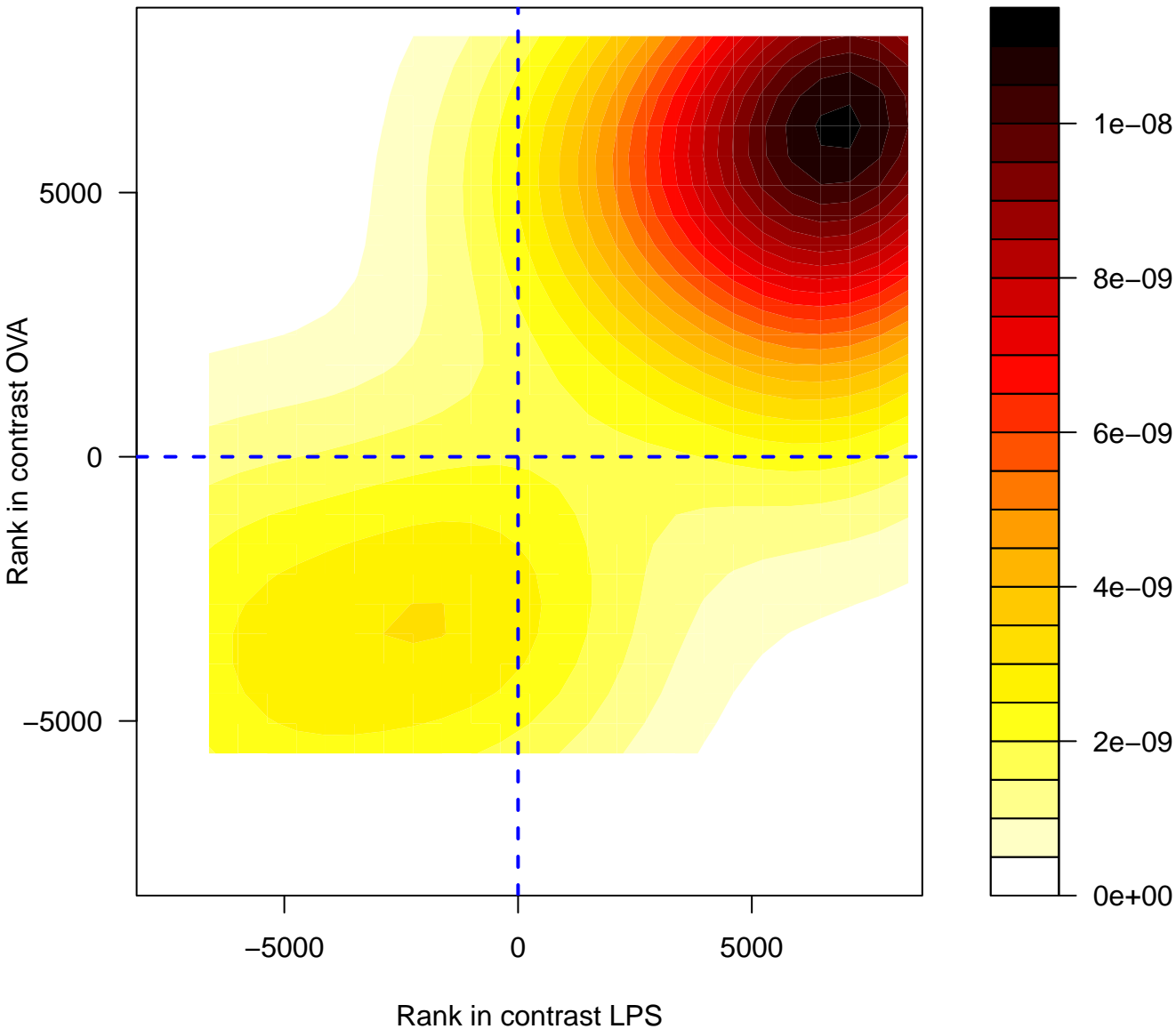
# PROCESSING AND ACTIVATION OF SUMO



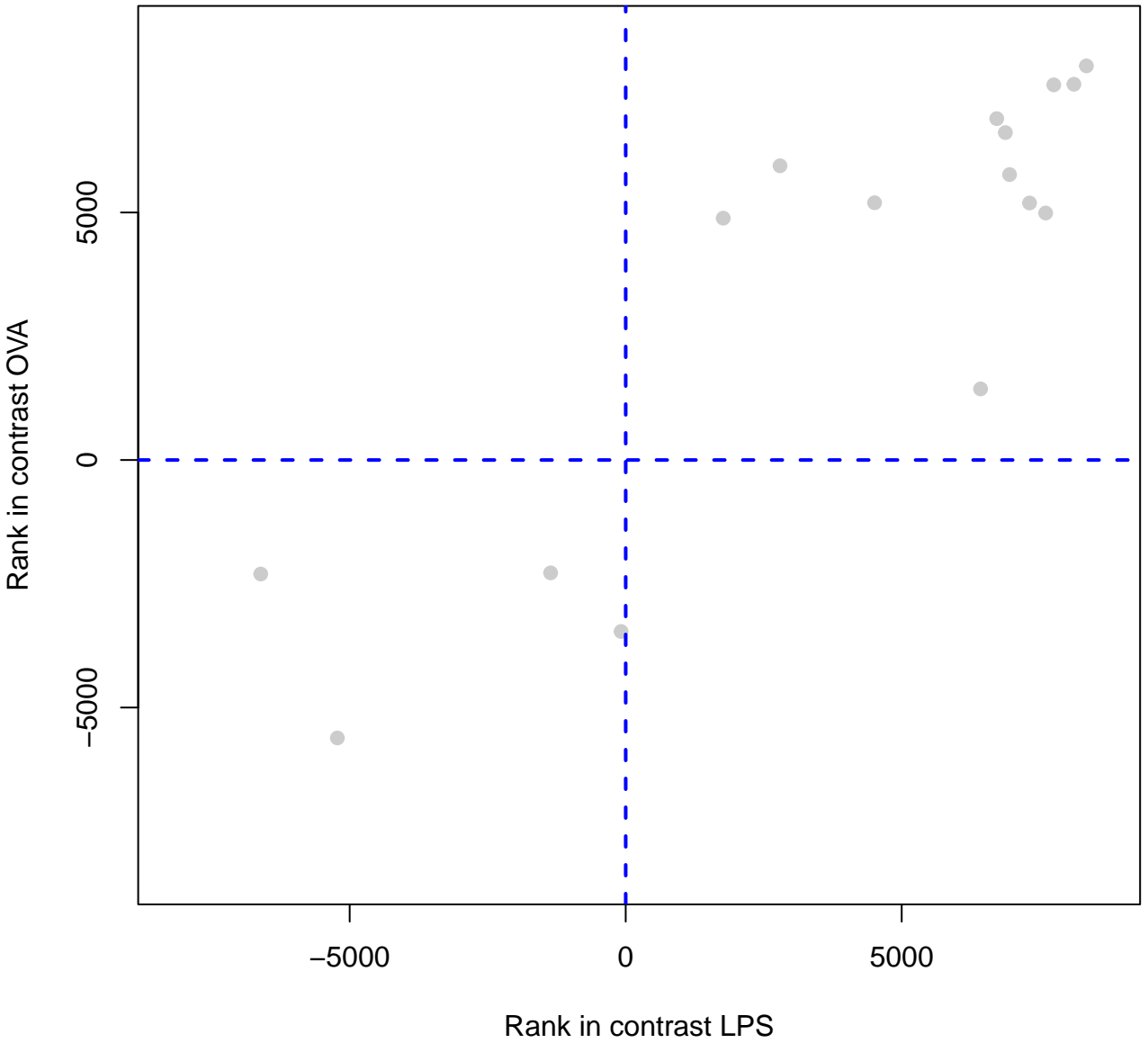
# PROCESSING AND ACTIVATION OF SUMO



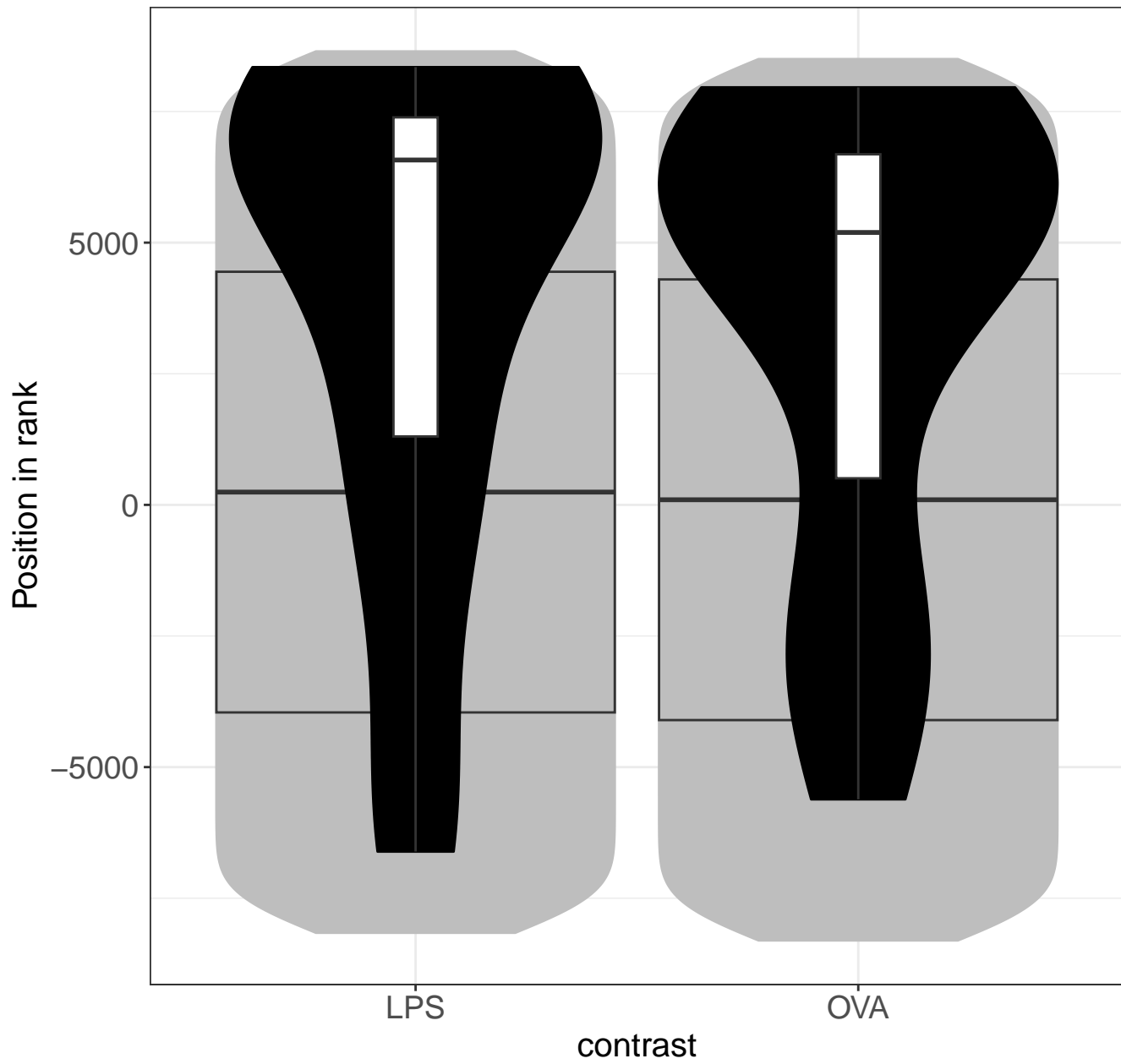
# ACTIVATION OF SMO



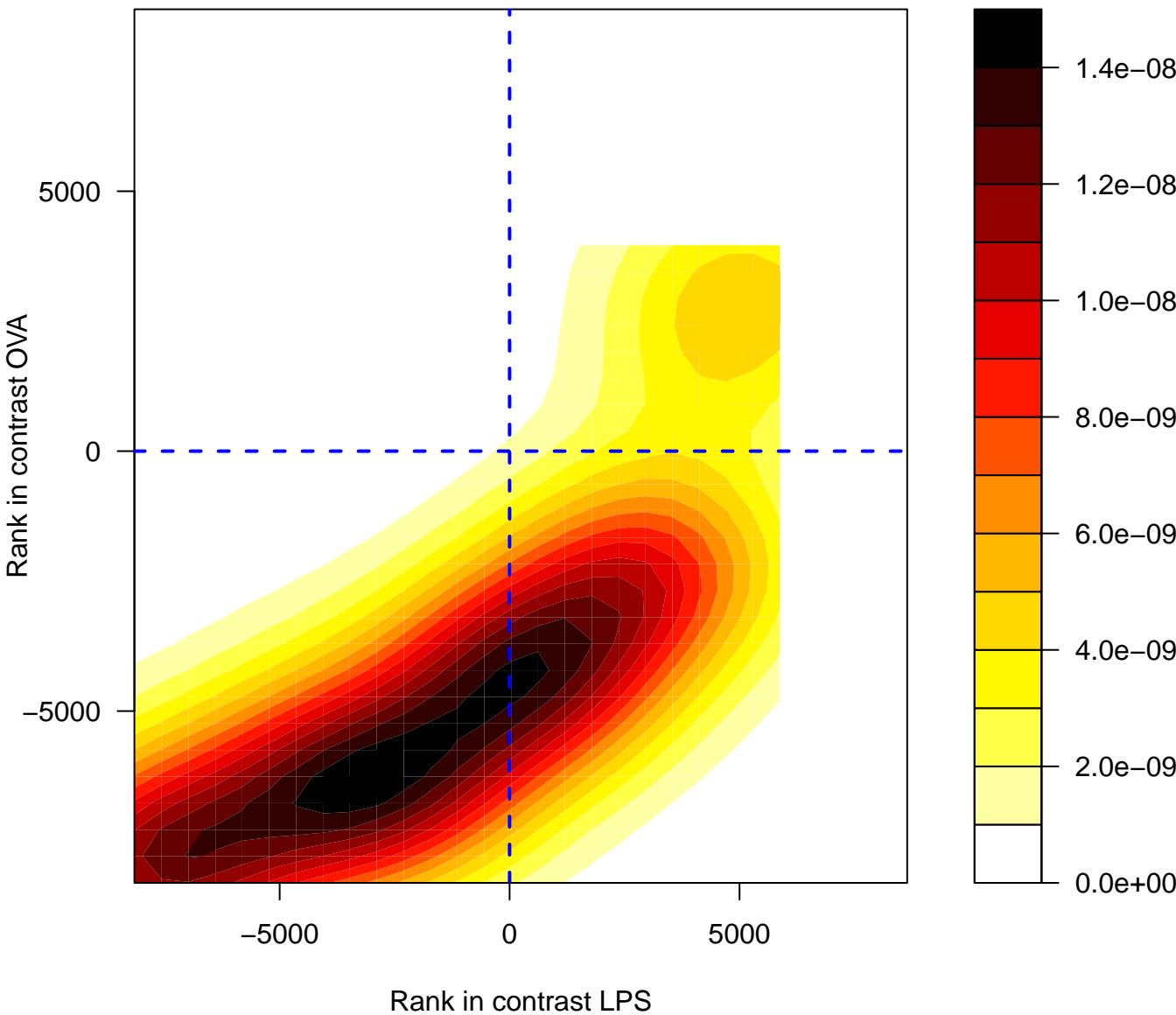
# ACTIVATION OF SMO



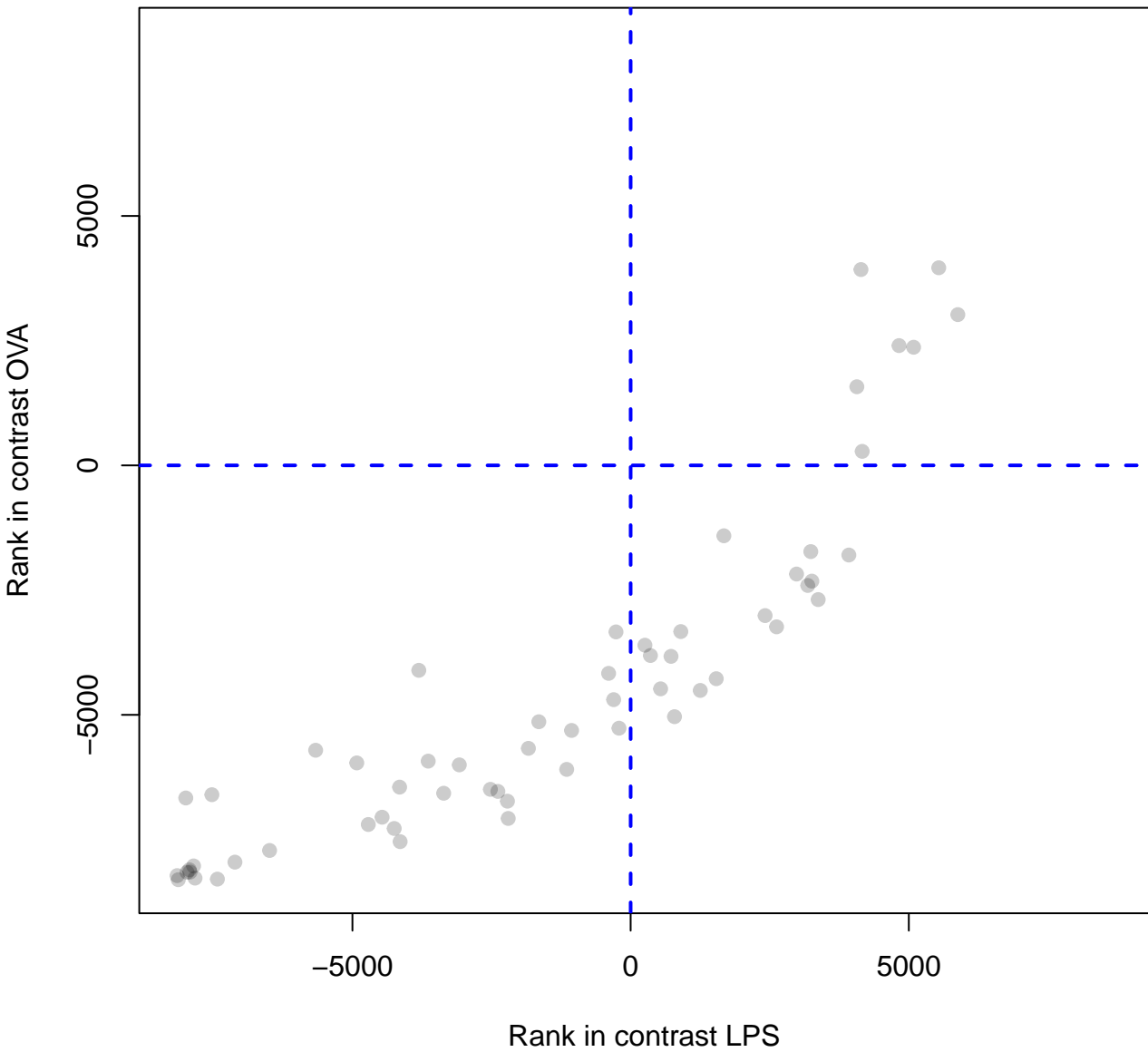
# ACTIVATION OF SMO



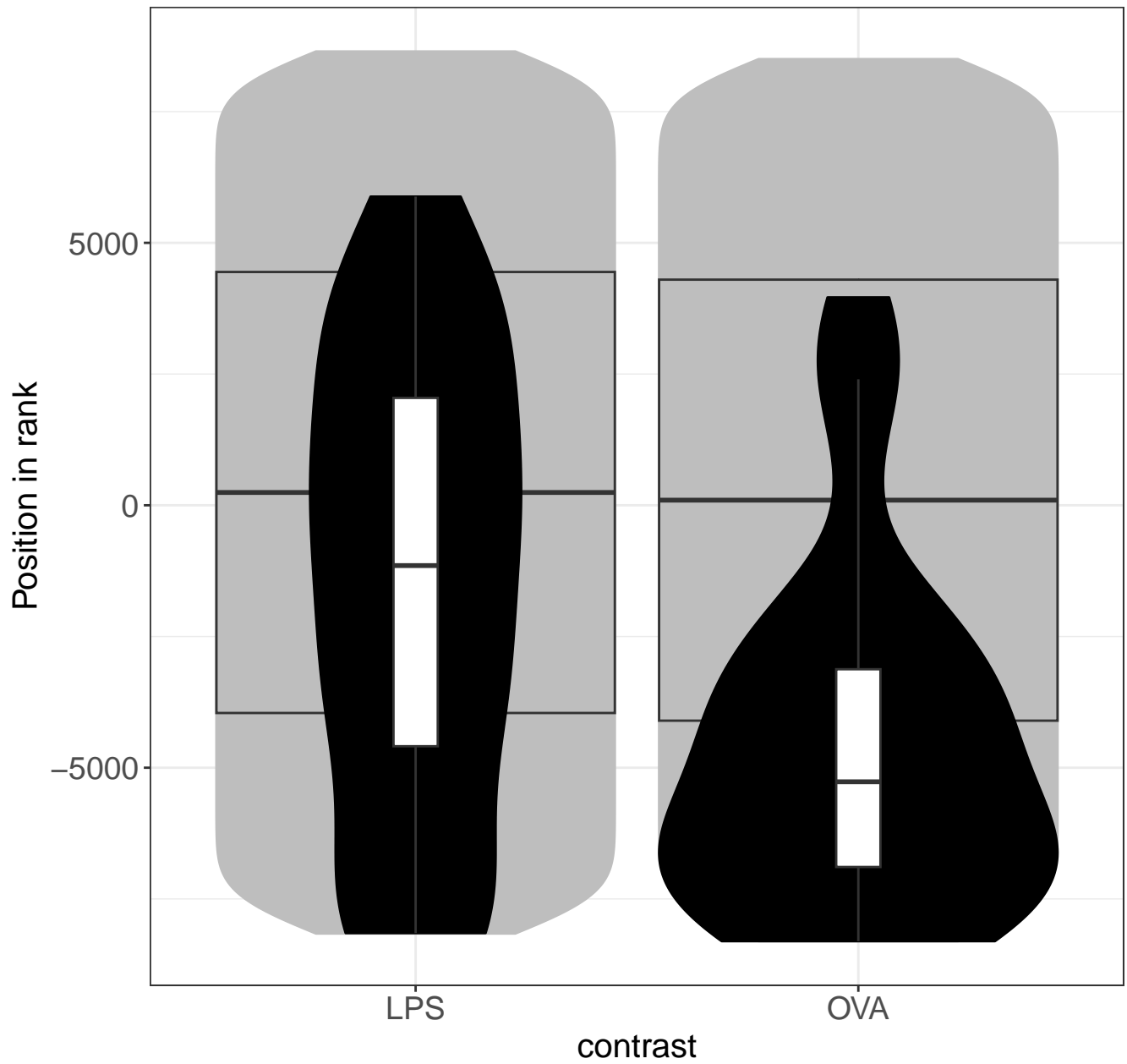
# UPON BINDING OF THE CAP BINDING COMPLEX AND EIFS A



# IRNA UPON BINDING OF THE CAP BINDING COMPLEX AND EIFS AND SUBS

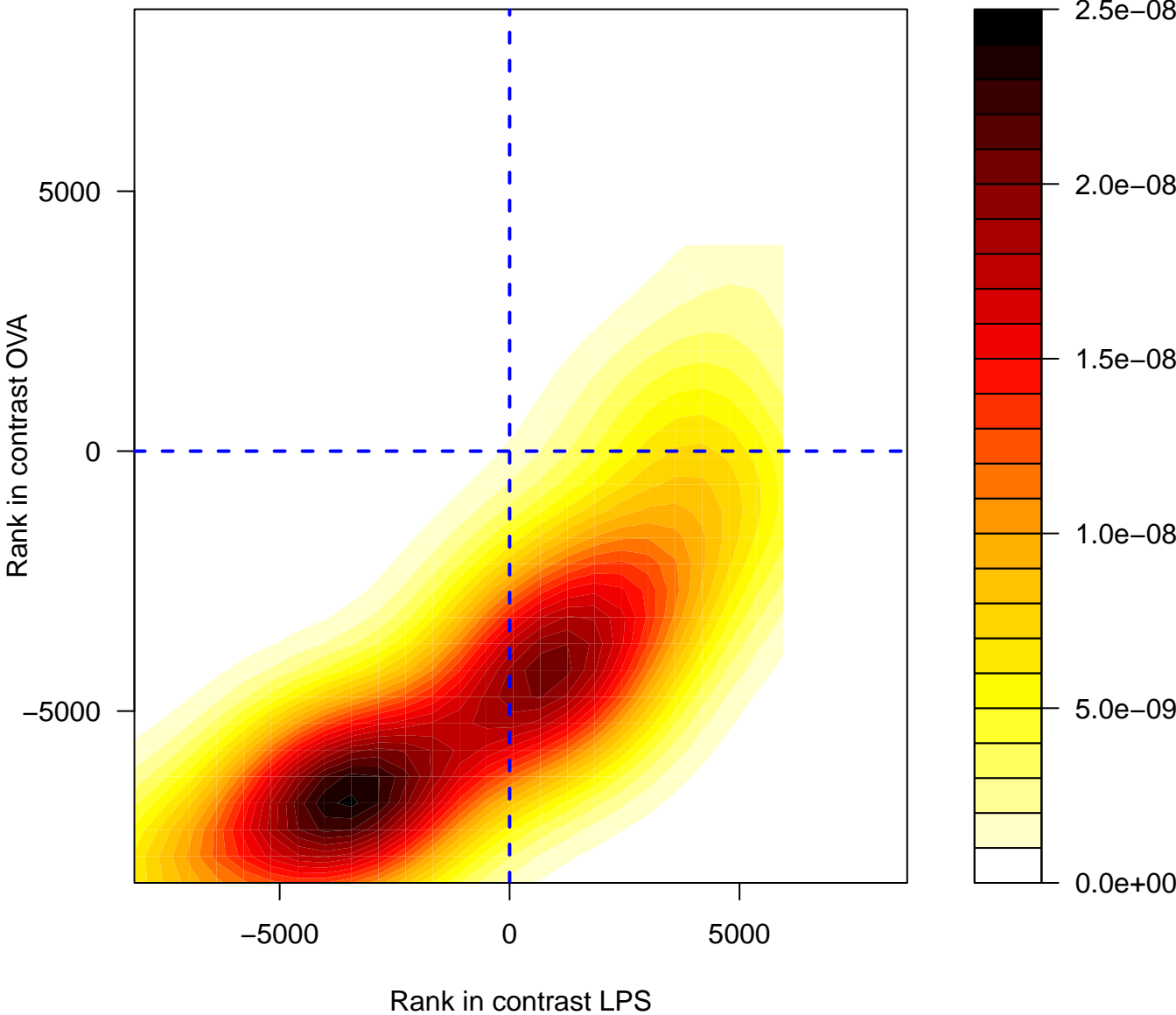


# ACTIVATION OF THE MRNA UPON BINDING OF

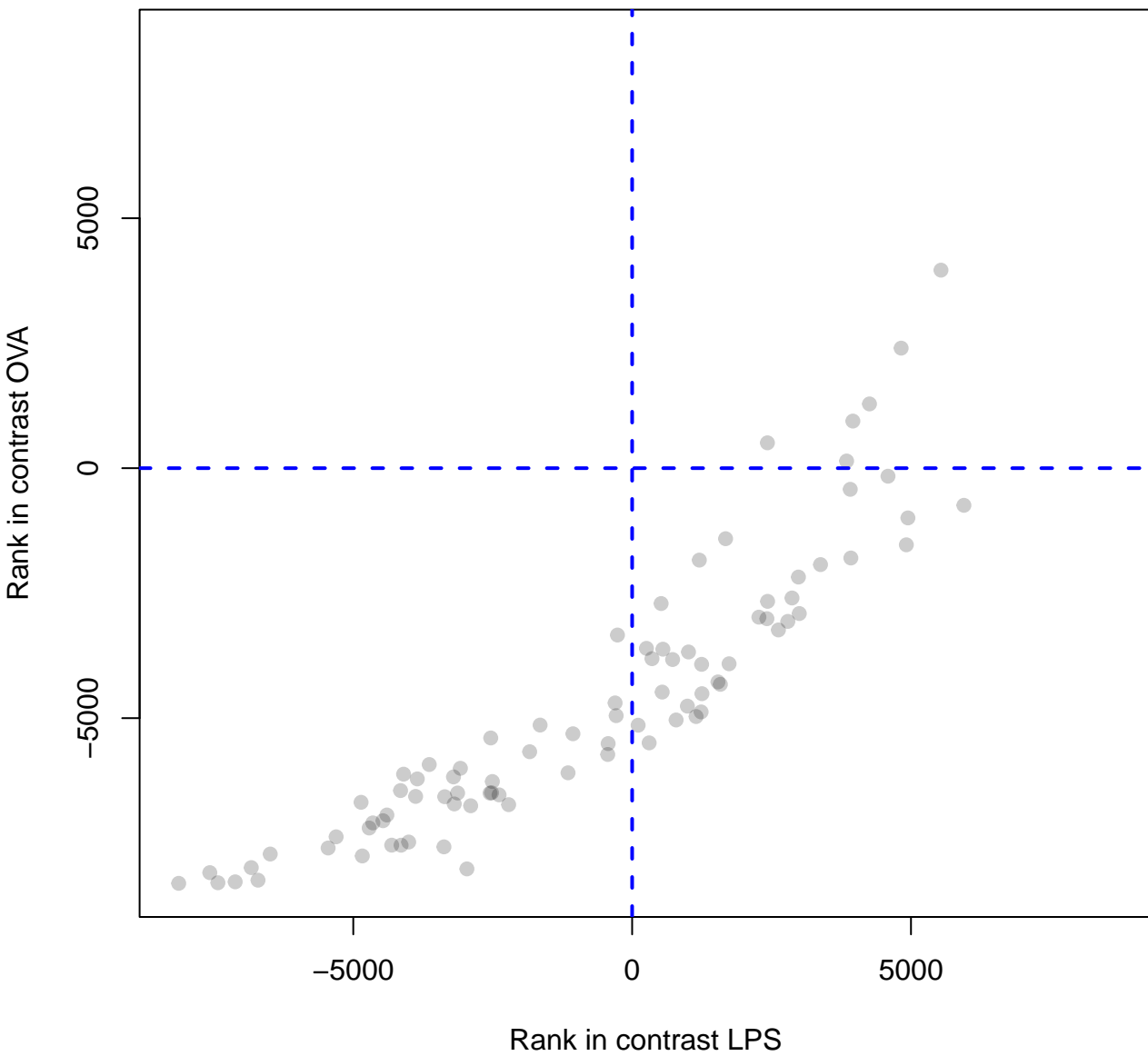




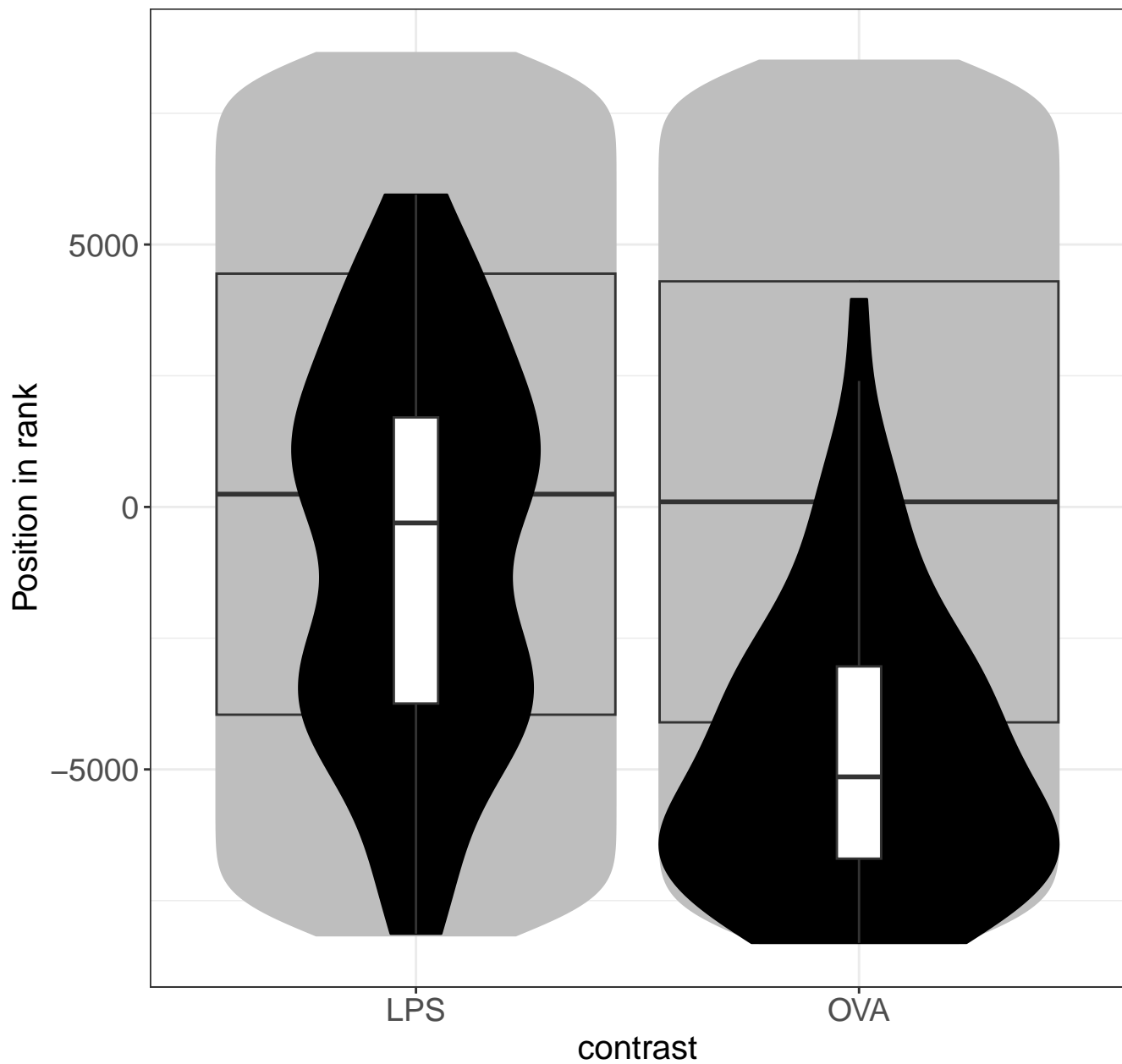
# EUKARYOTIC TRANSLATION ELONGATION



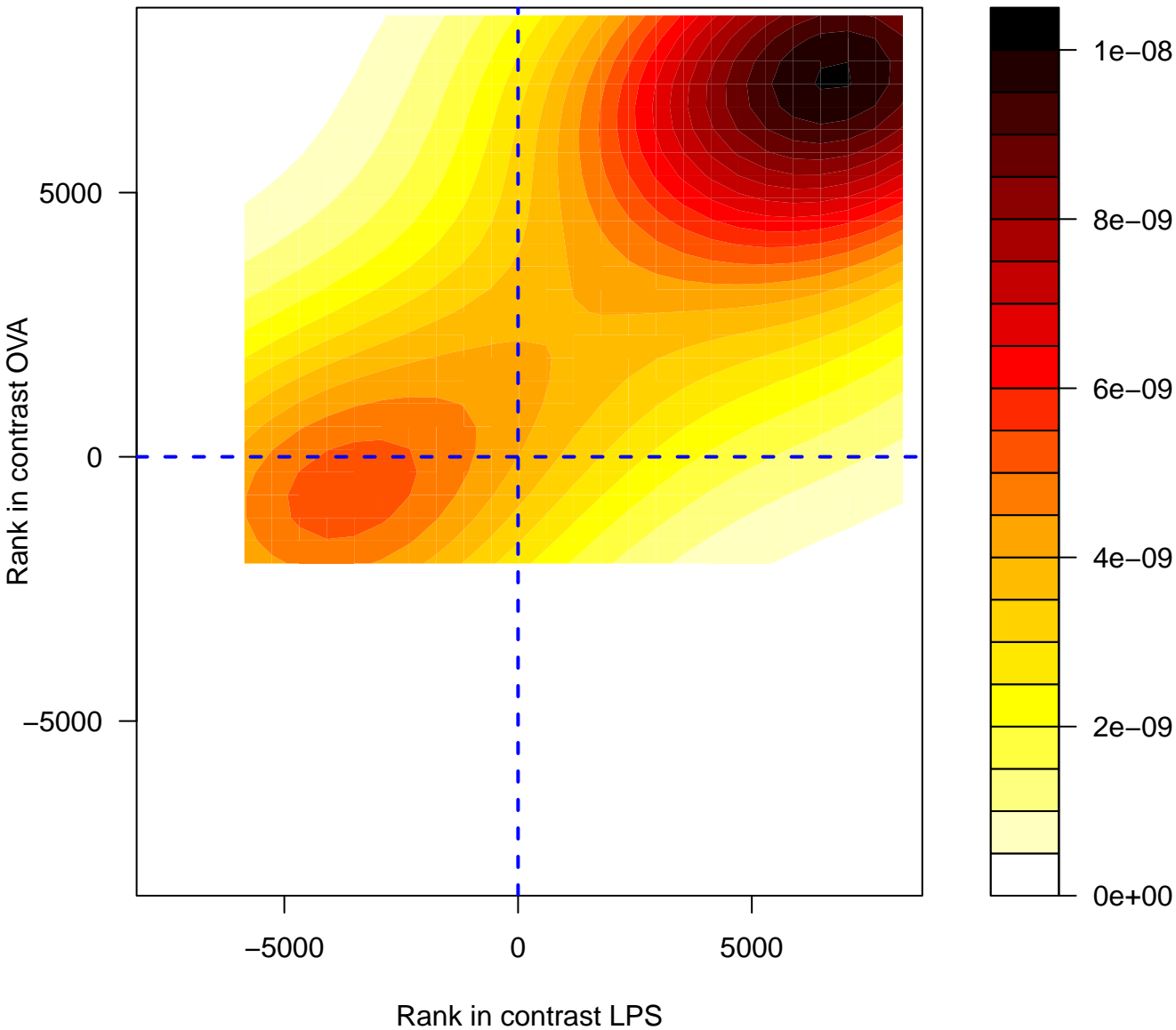
# EUKARYOTIC TRANSLATION ELONGATION



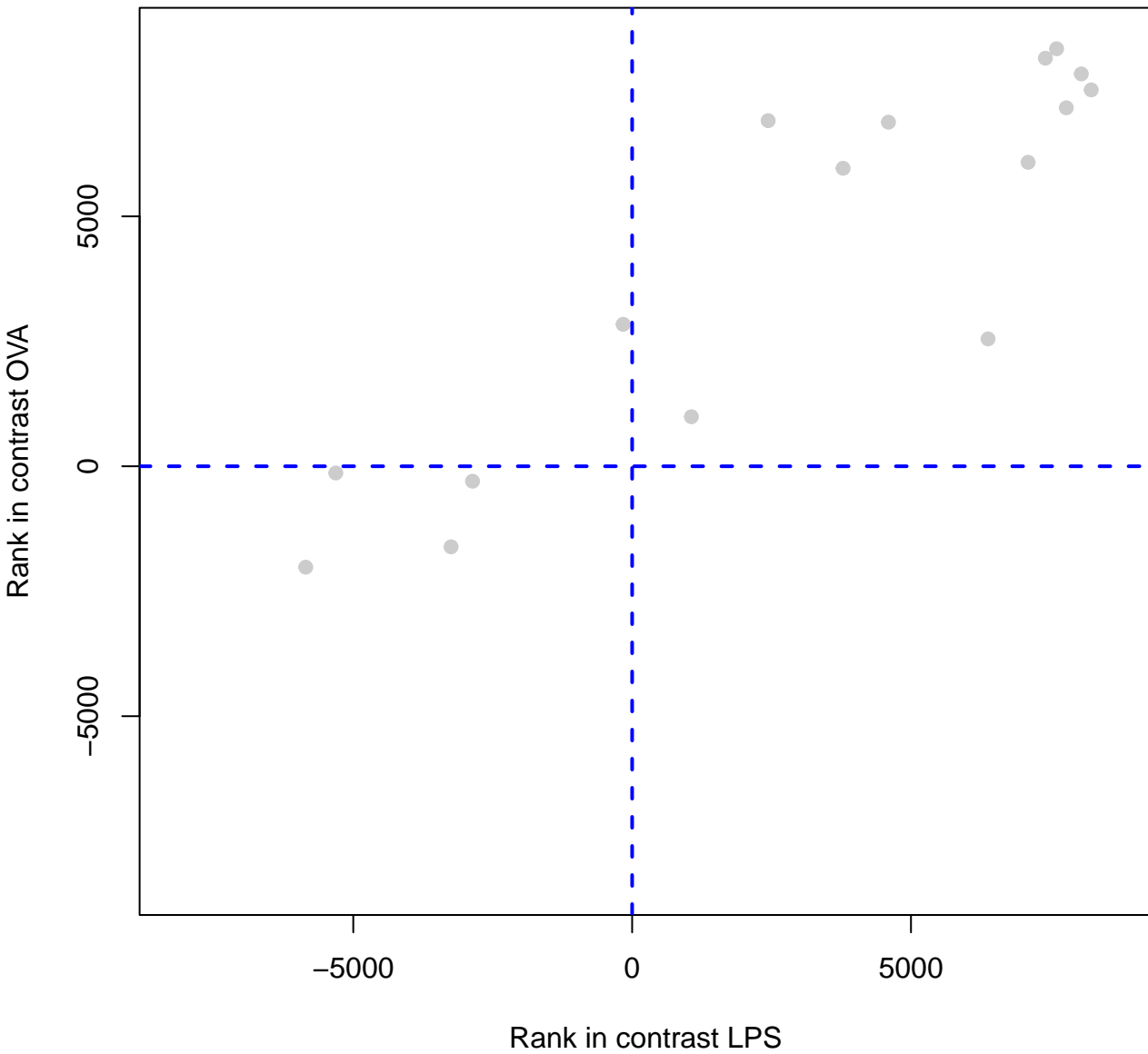
# EUKARYOTIC TRANSLATION ELONGATION



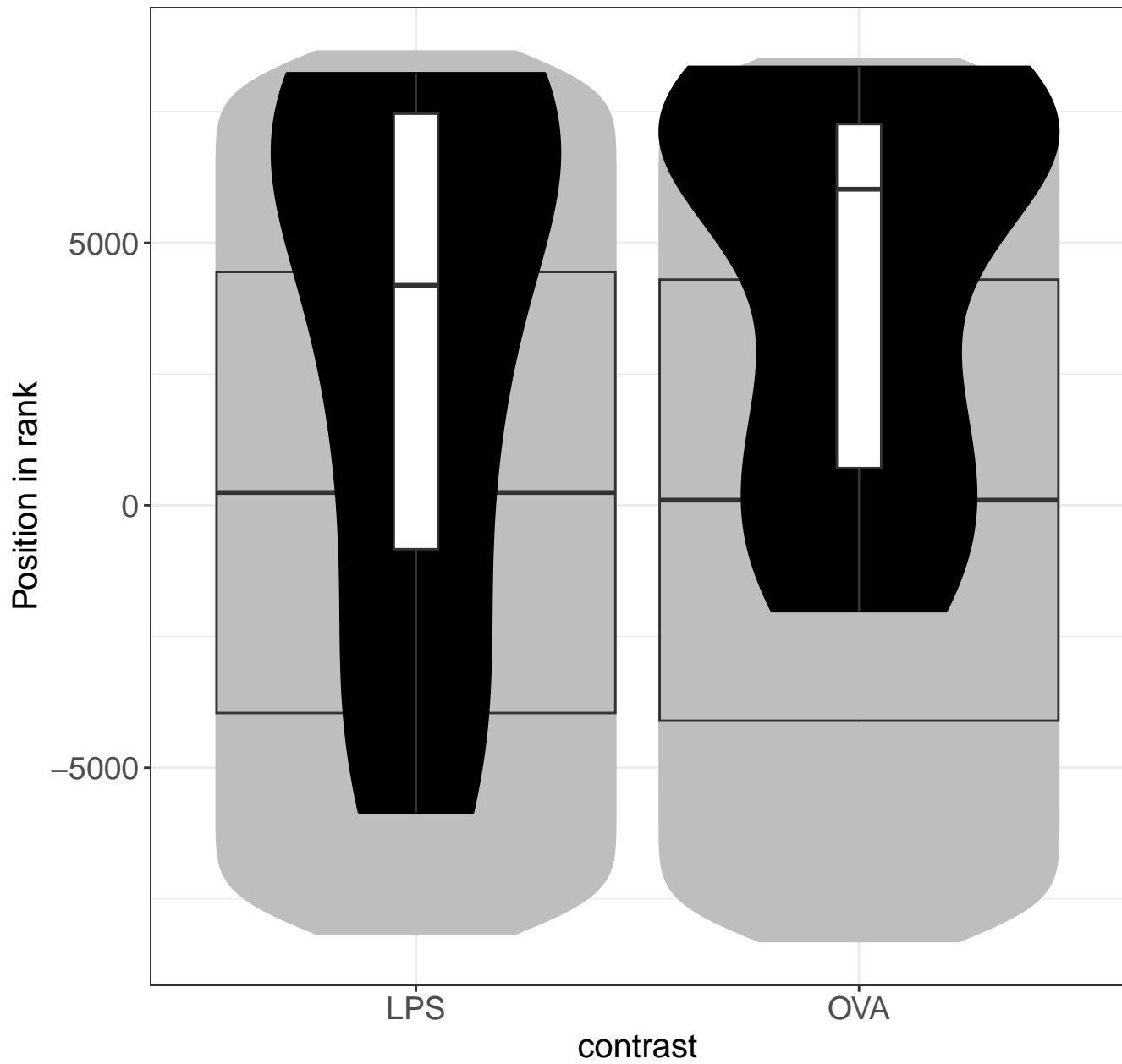
# CRMP5 IN SEMA3A SIGNALING



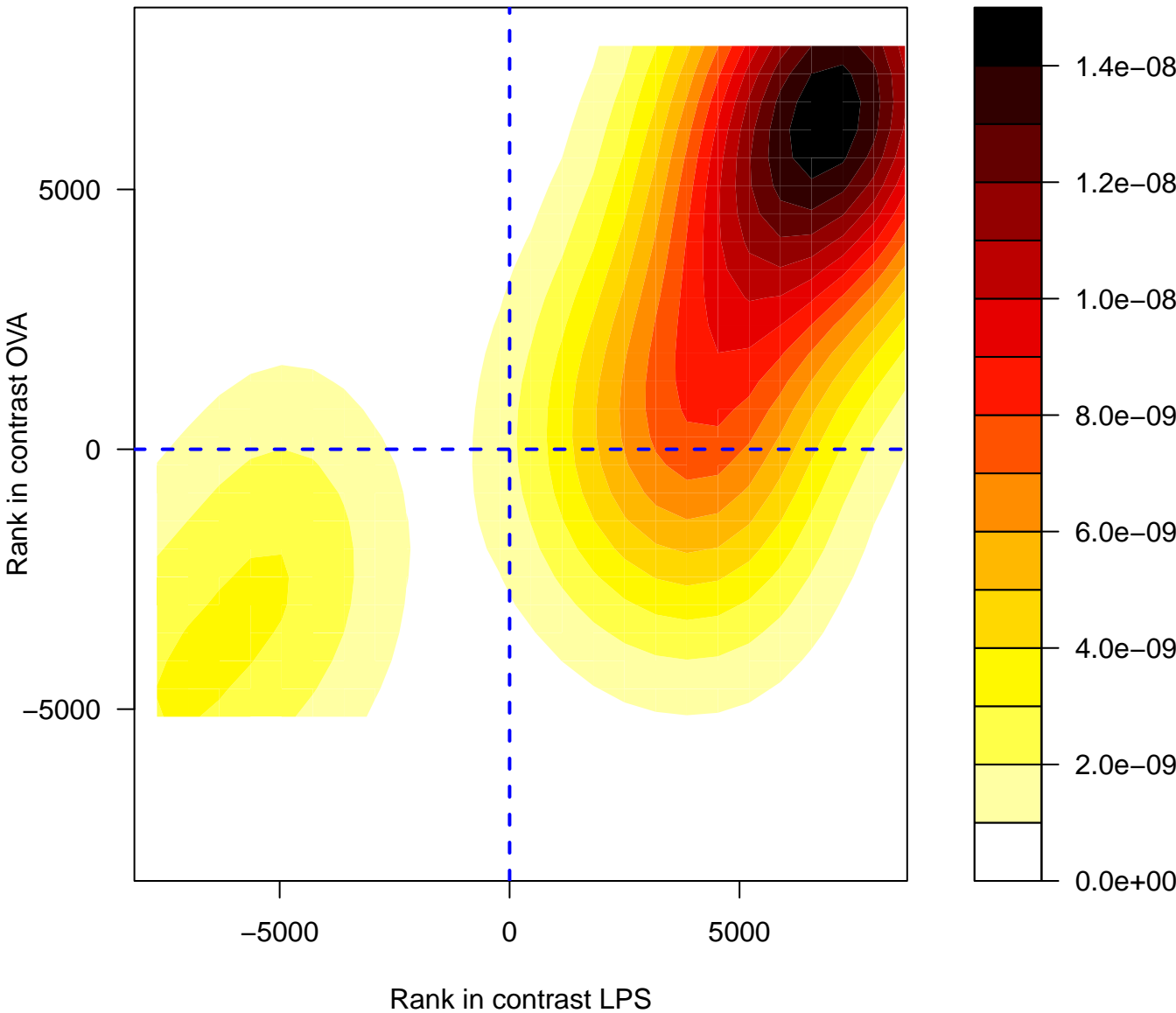
# CRMP5 IN SEMA3A SIGNALING



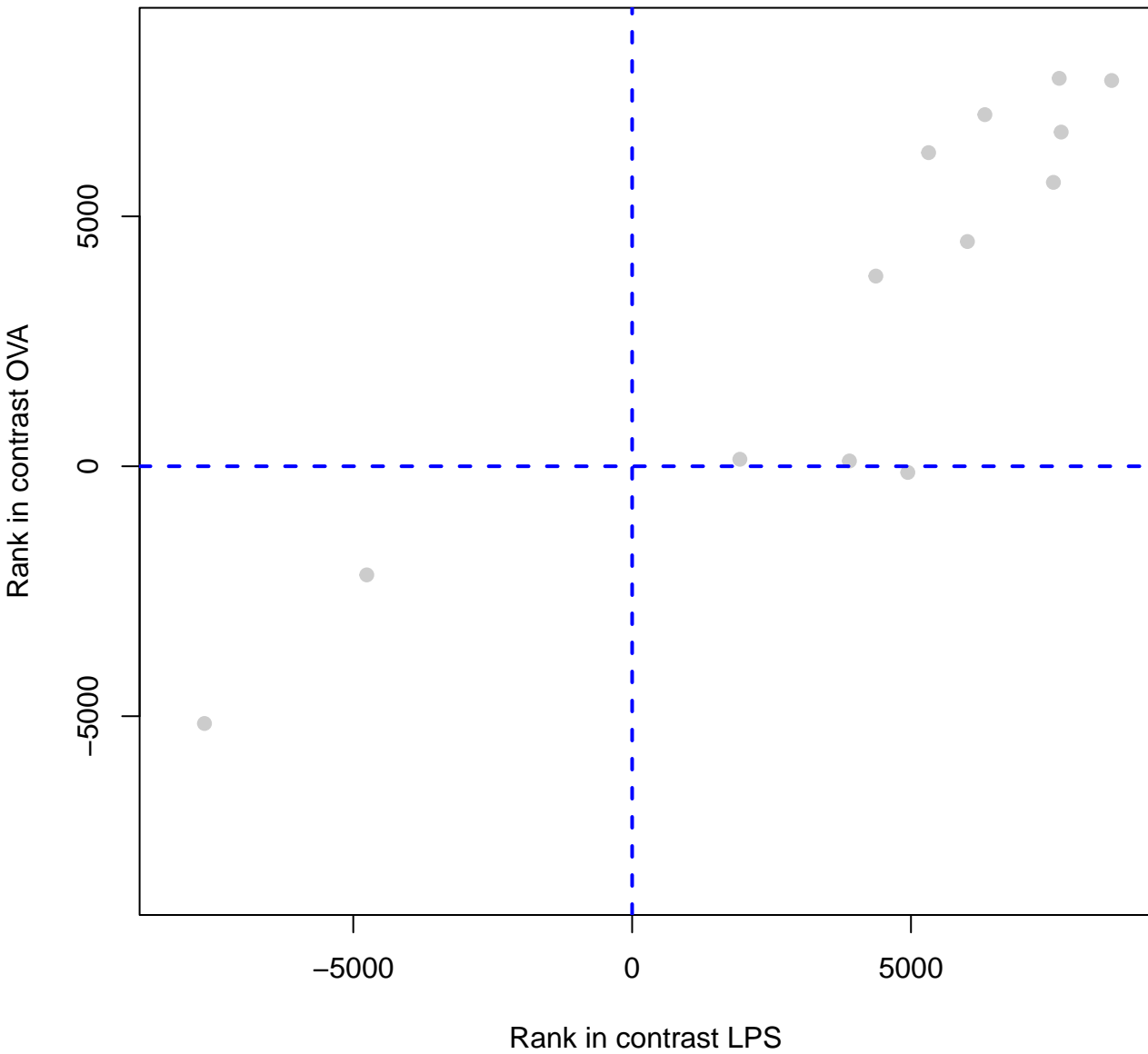
# CRMP5 IN SEMA3A SIGNALING



# CYTOSOLIC IRON SULFUR CLUSTER ASSEMBLY

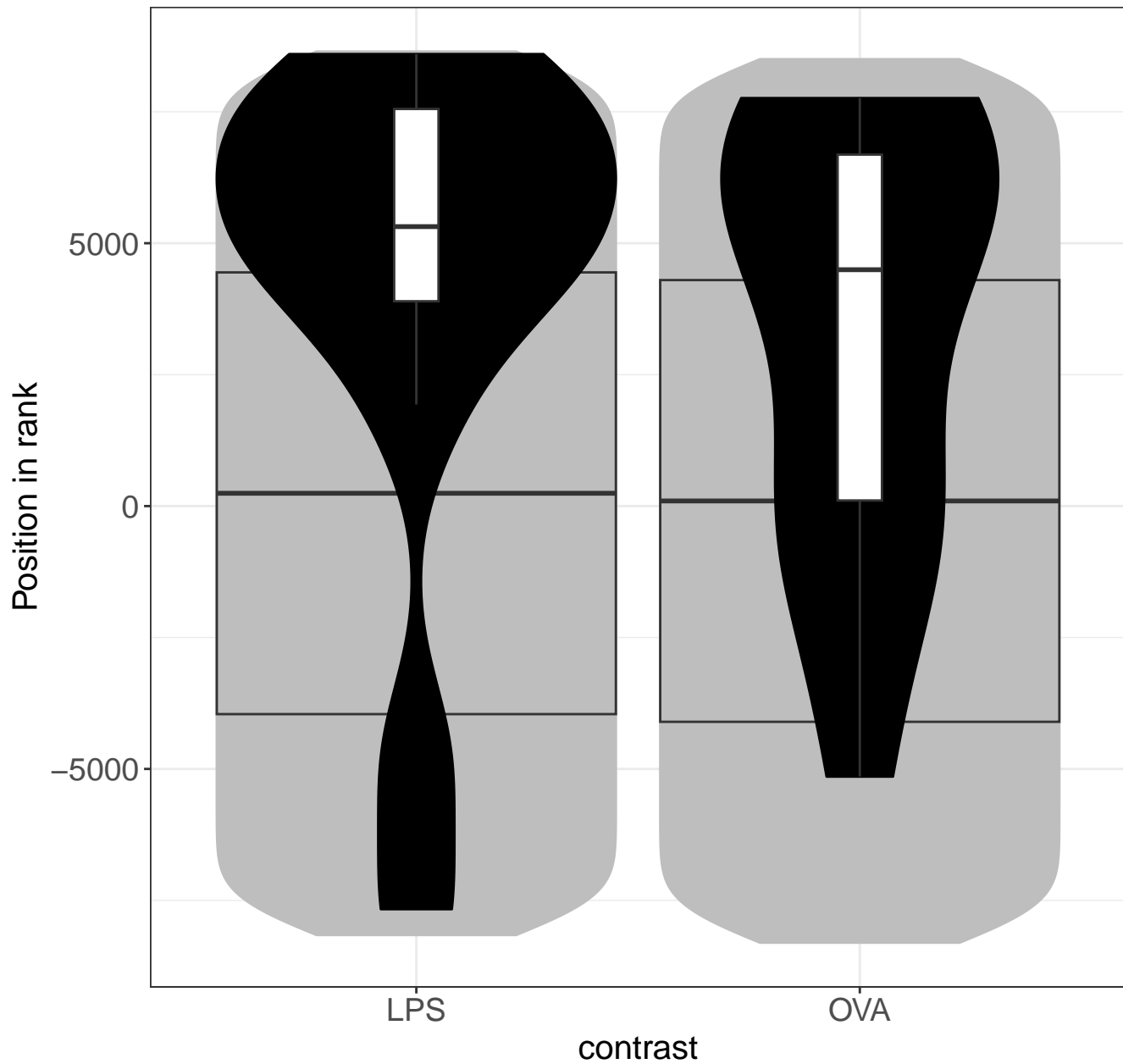


# CYTOSOLIC IRON SULFUR CLUSTER ASSEMBLY

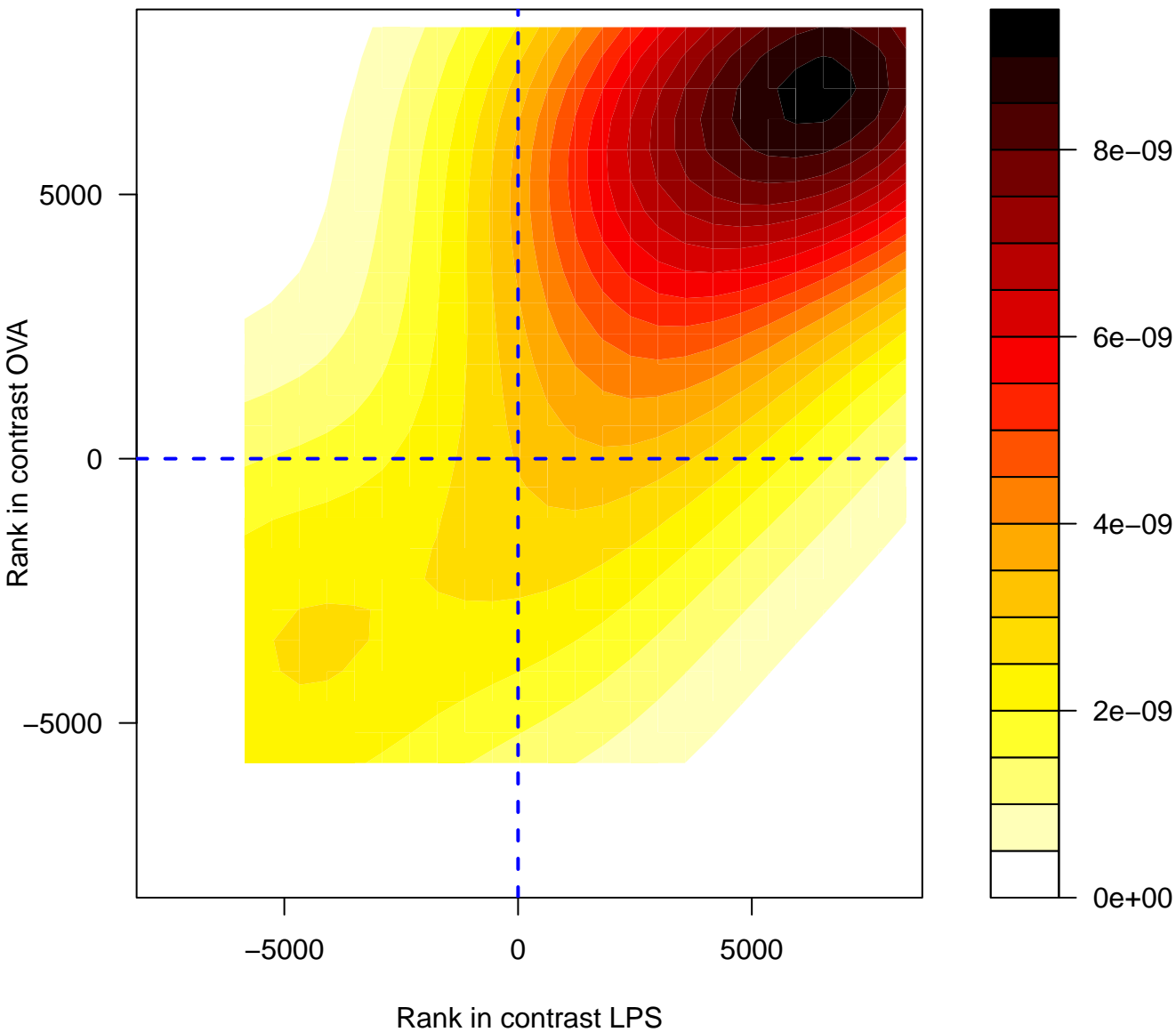




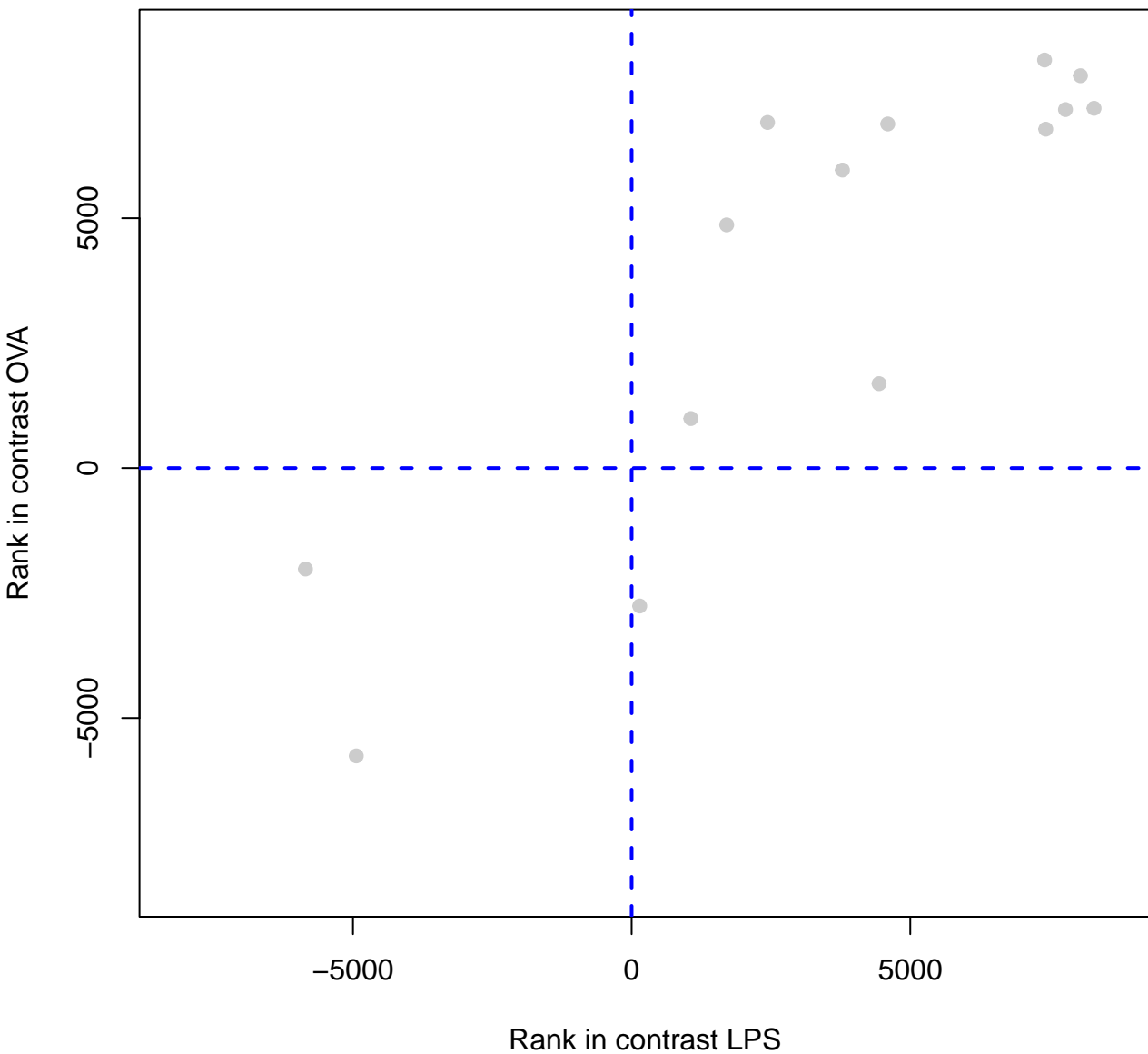
# CYTOSOLIC IRON SULFUR CLUSTER ASSEMBLY



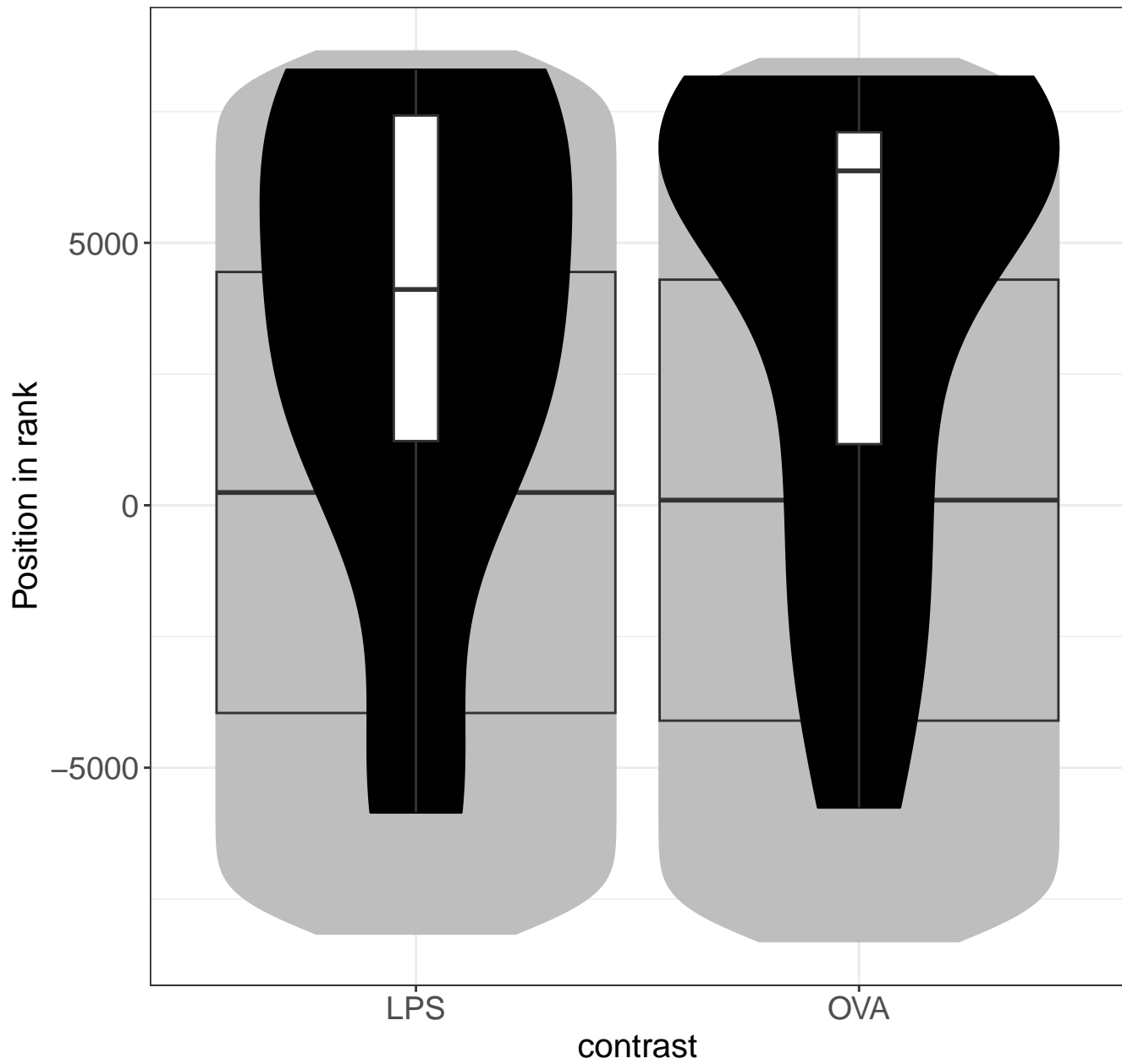
# 3A PLEXIN REPULSION SIGNALING BY INHIBITING INTEGRIN



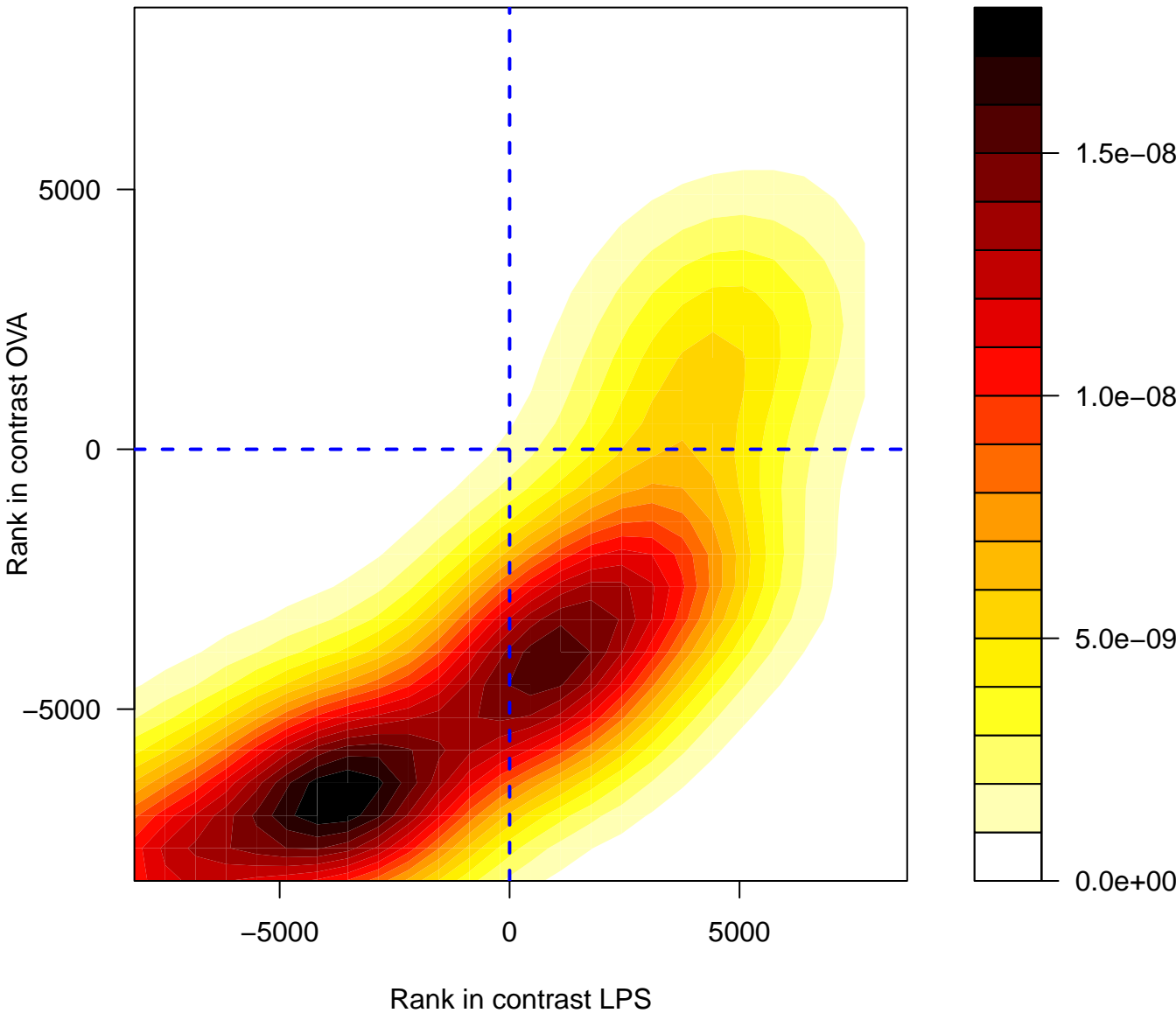
# SEMA3A PLEXIN REPULSION SIGNALING BY INHIBITING INTEGRIN ADHES



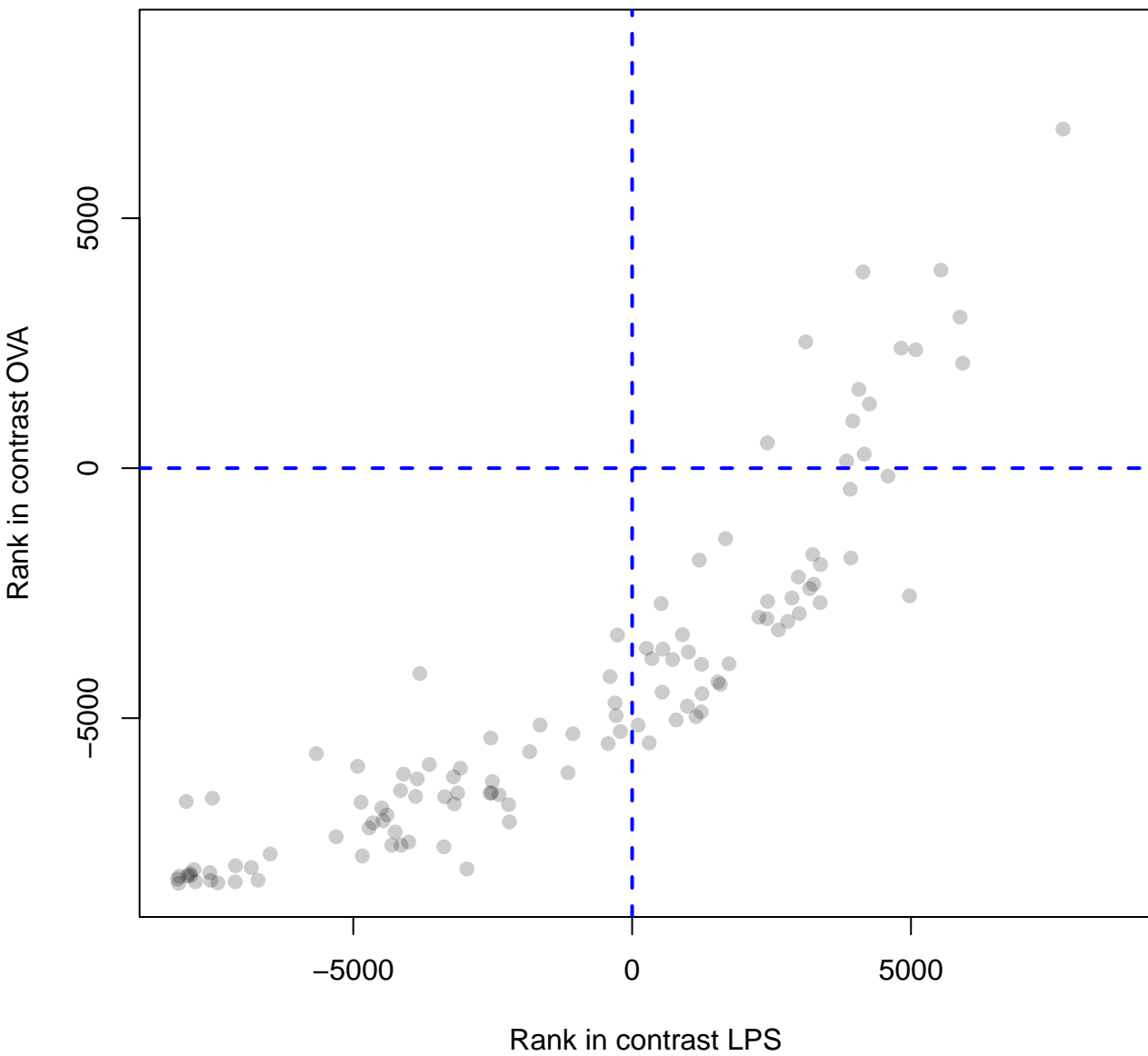
# SEMA3A PLEXIN REPULSION SIGNALING BY I



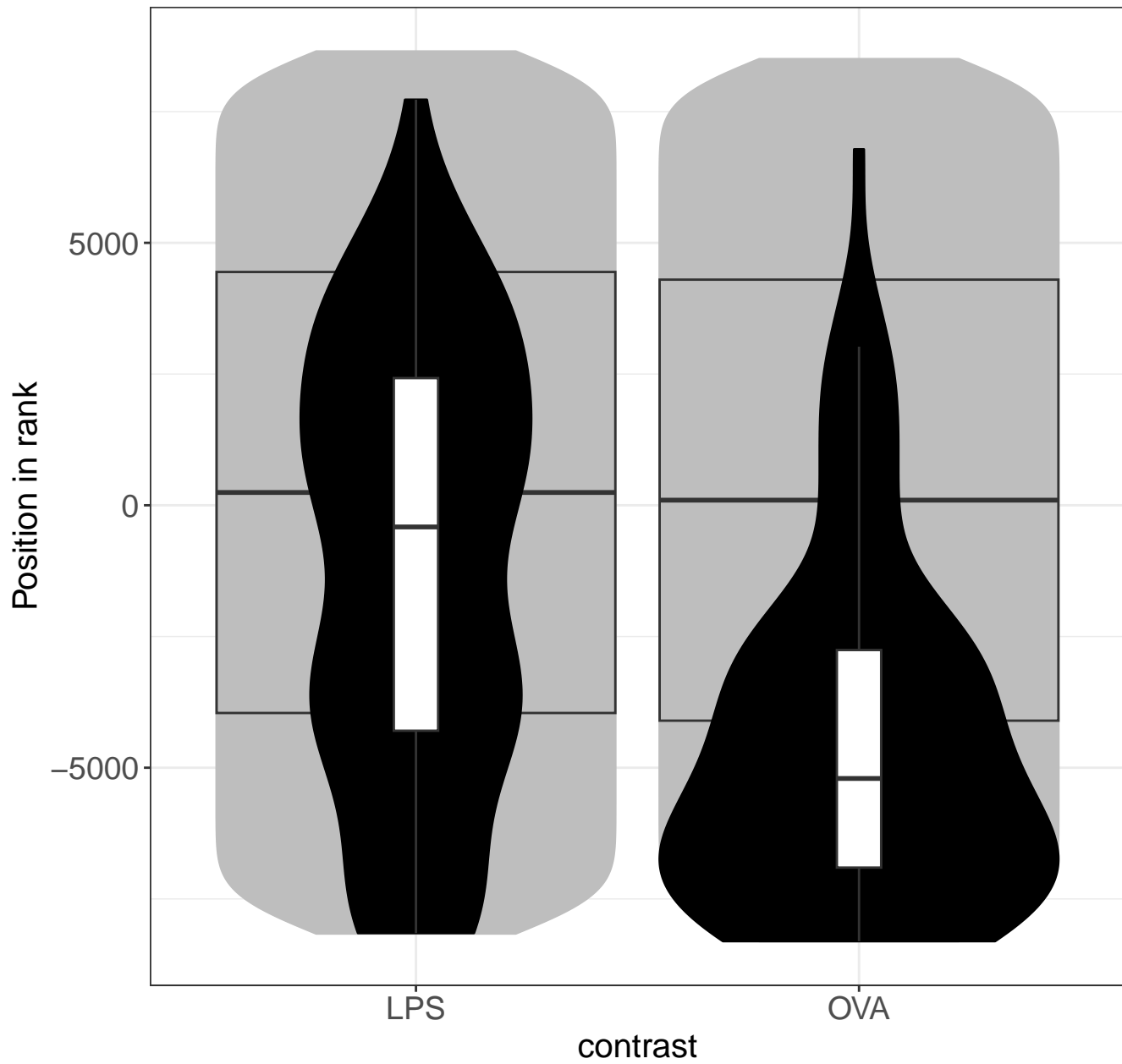
# EUKARYOTIC TRANSLATION INITIATION



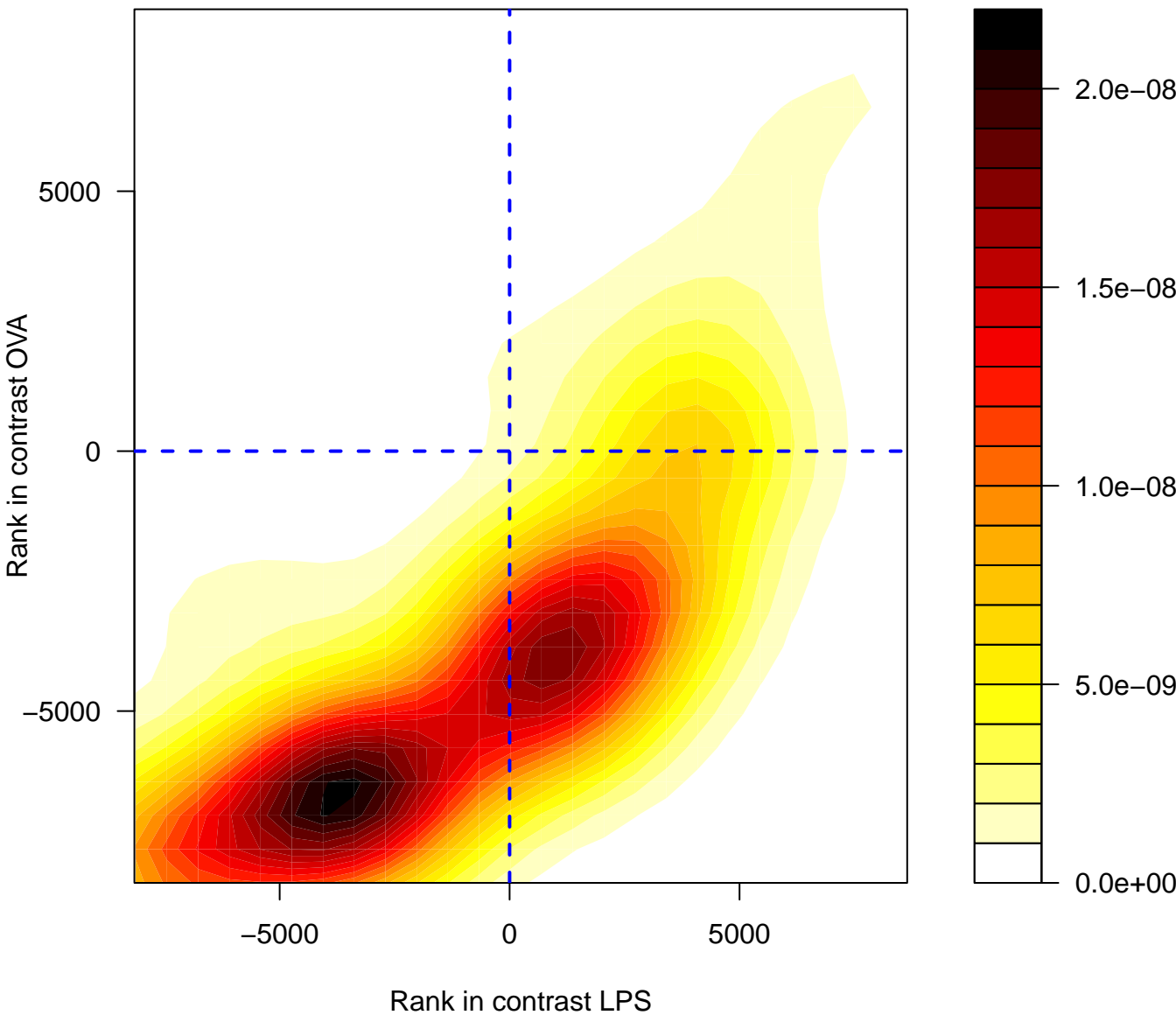
# EUKARYOTIC TRANSLATION INITIATION



# EUKARYOTIC TRANSLATION INITIATION

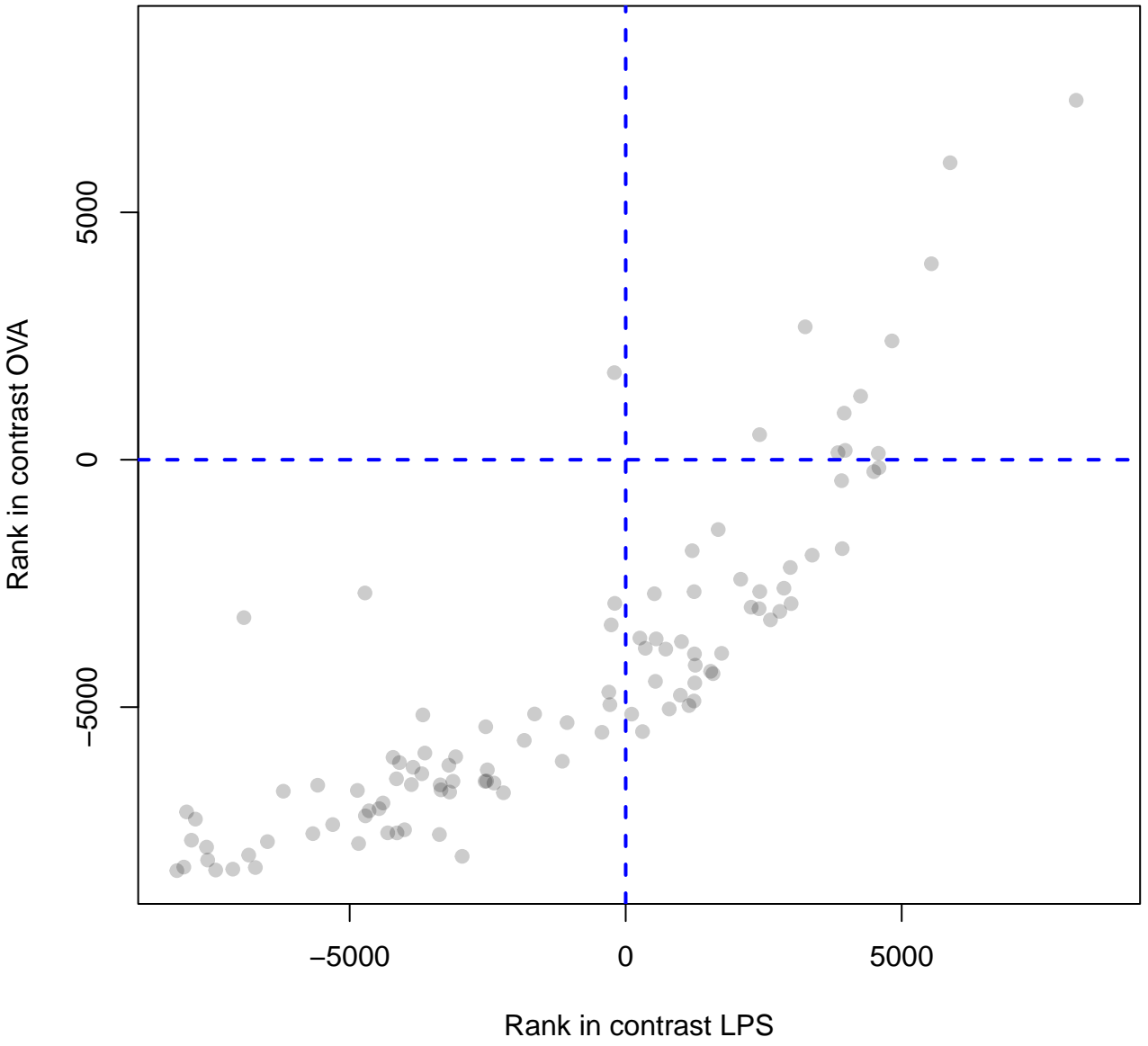


# DEPENDENT COTRANSLATIONAL PROTEIN TARGETING TO I

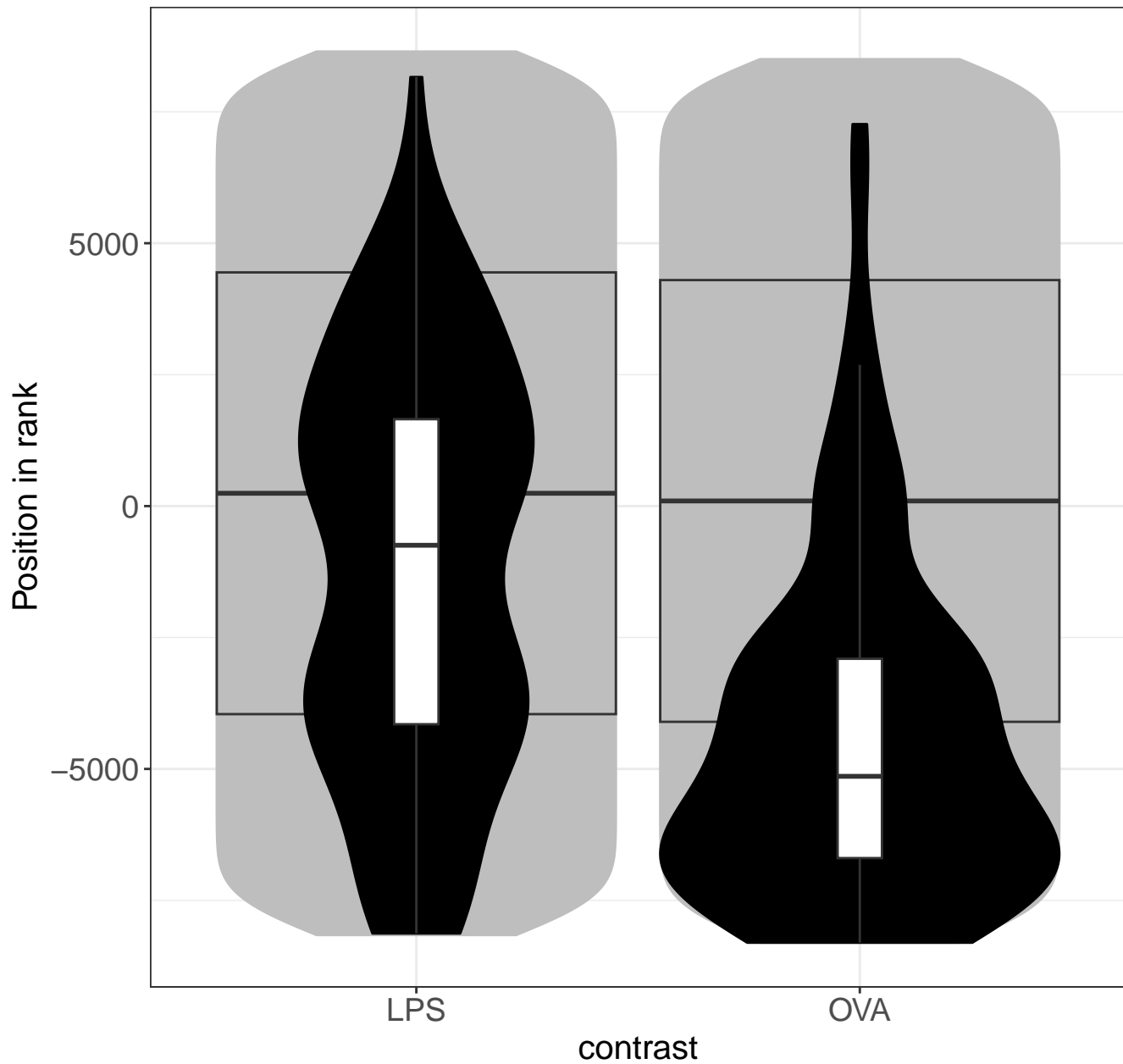




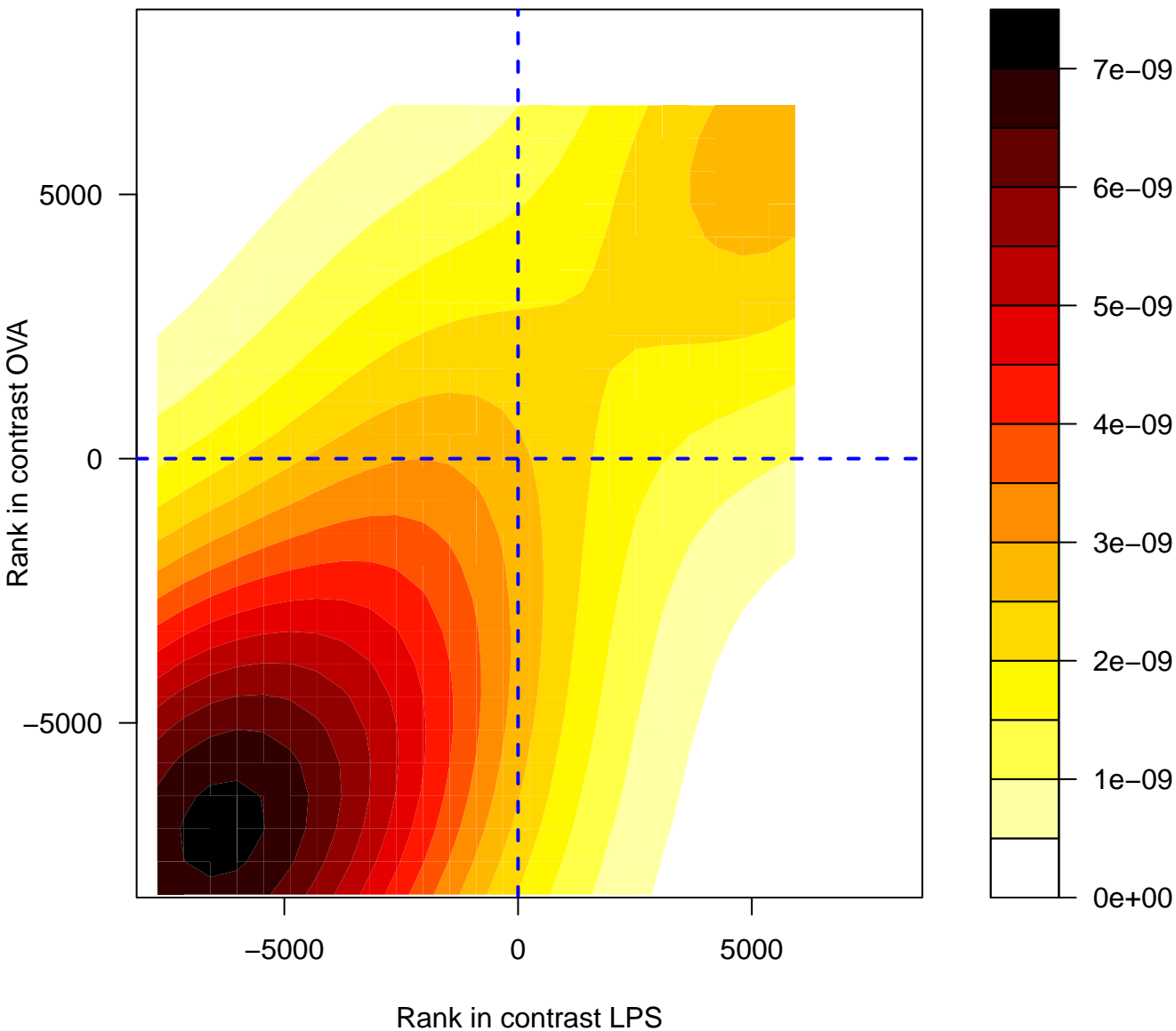
# SRP DEPENDENT COTRANSLATIONAL PROTEIN TARGETING TO MEMBRANE



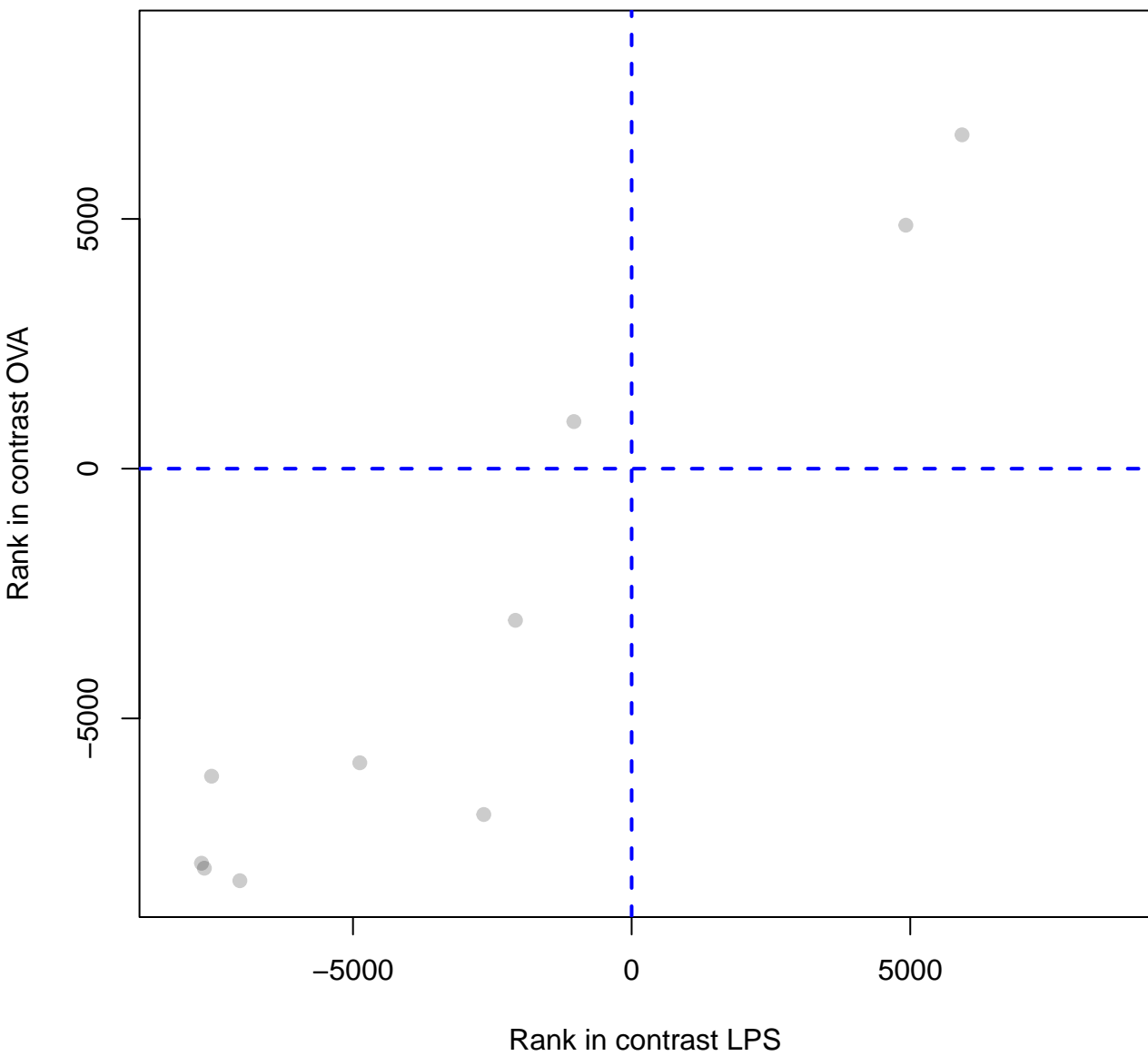
# SRP DEPENDENT COTRANSLATIONAL PROTE



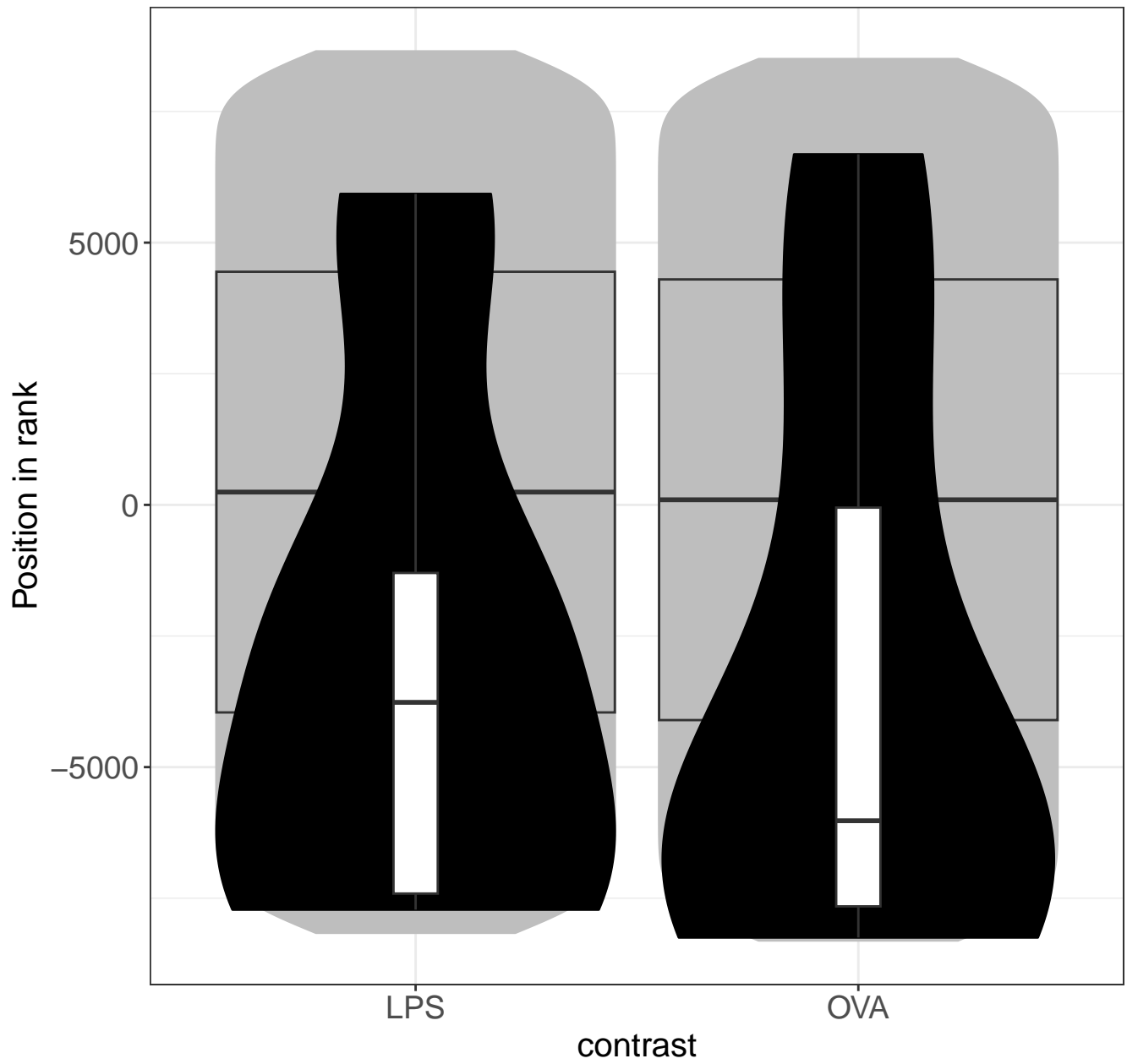
# 1 CHK2 CDS1 MEDIATED INACTIVATION OF CYCLIN B CDK1



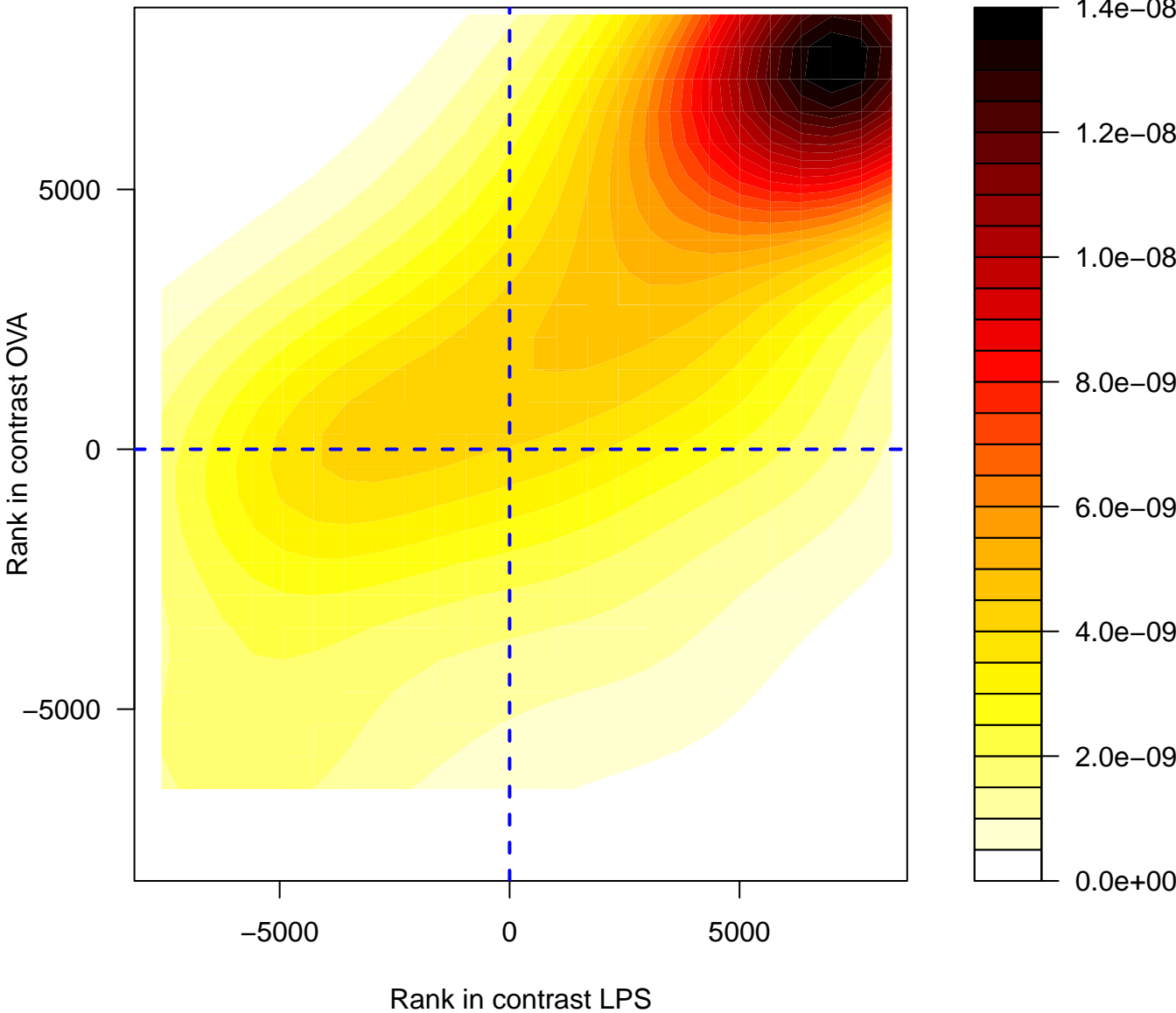
# CHK1 CHK2 CDS1 MEDIATED INACTIVATION OF CYCLIN B CDK1 COMPLEX



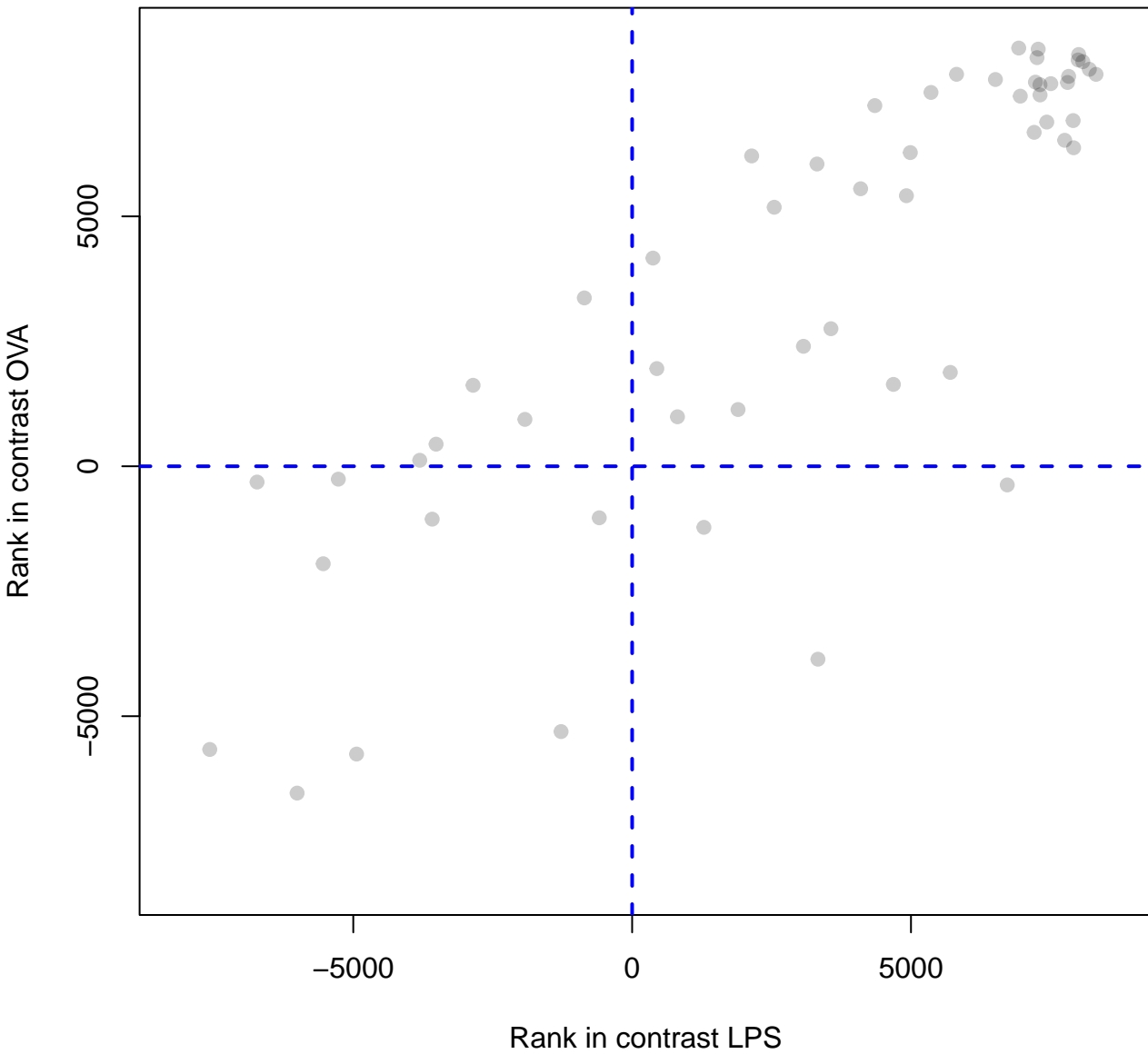
# CHK1 CHK2 CDS1 MEDIATED INACTIVATION O



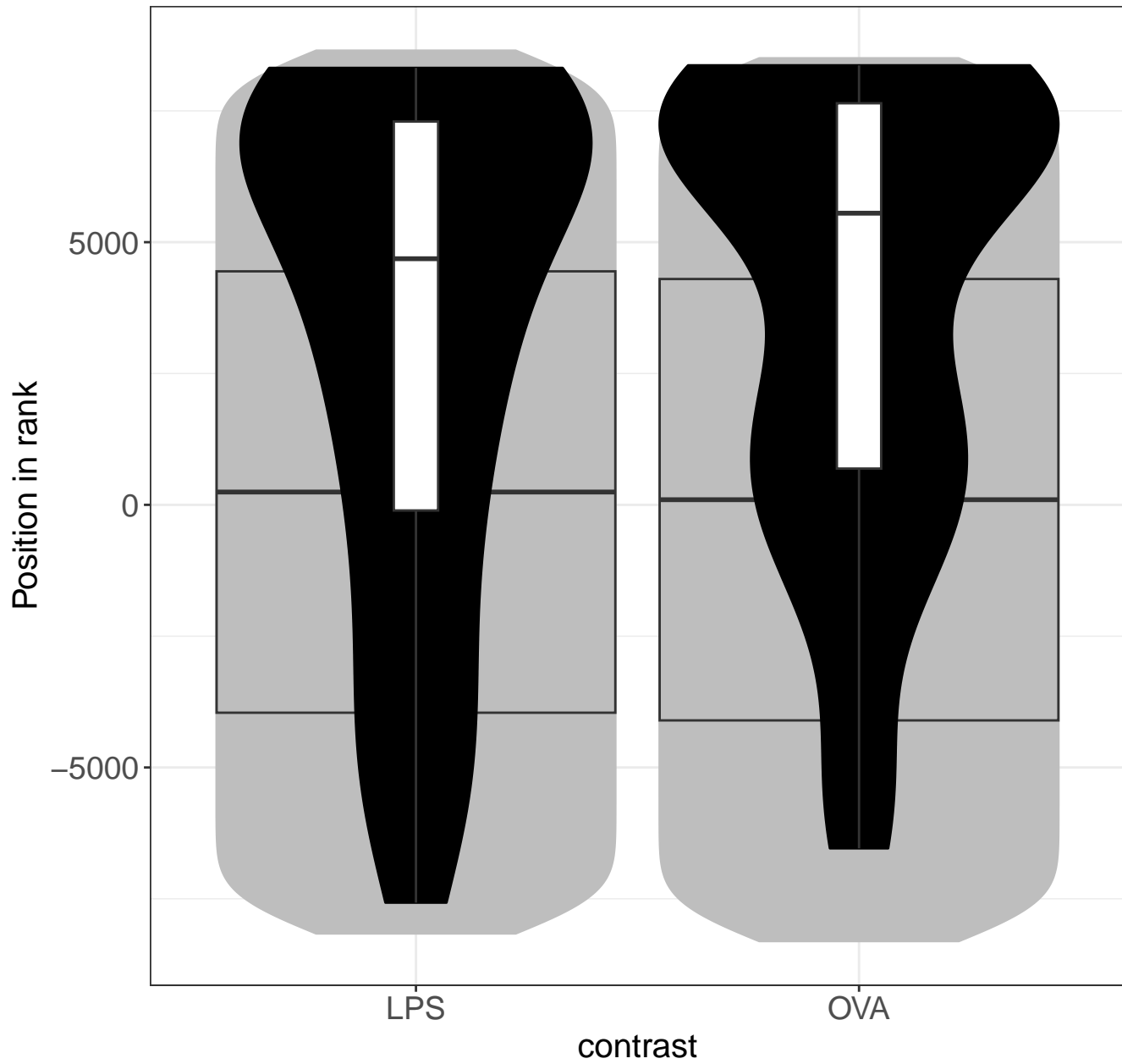
# NRAGE SIGNALS DEATH THROUGH JNK



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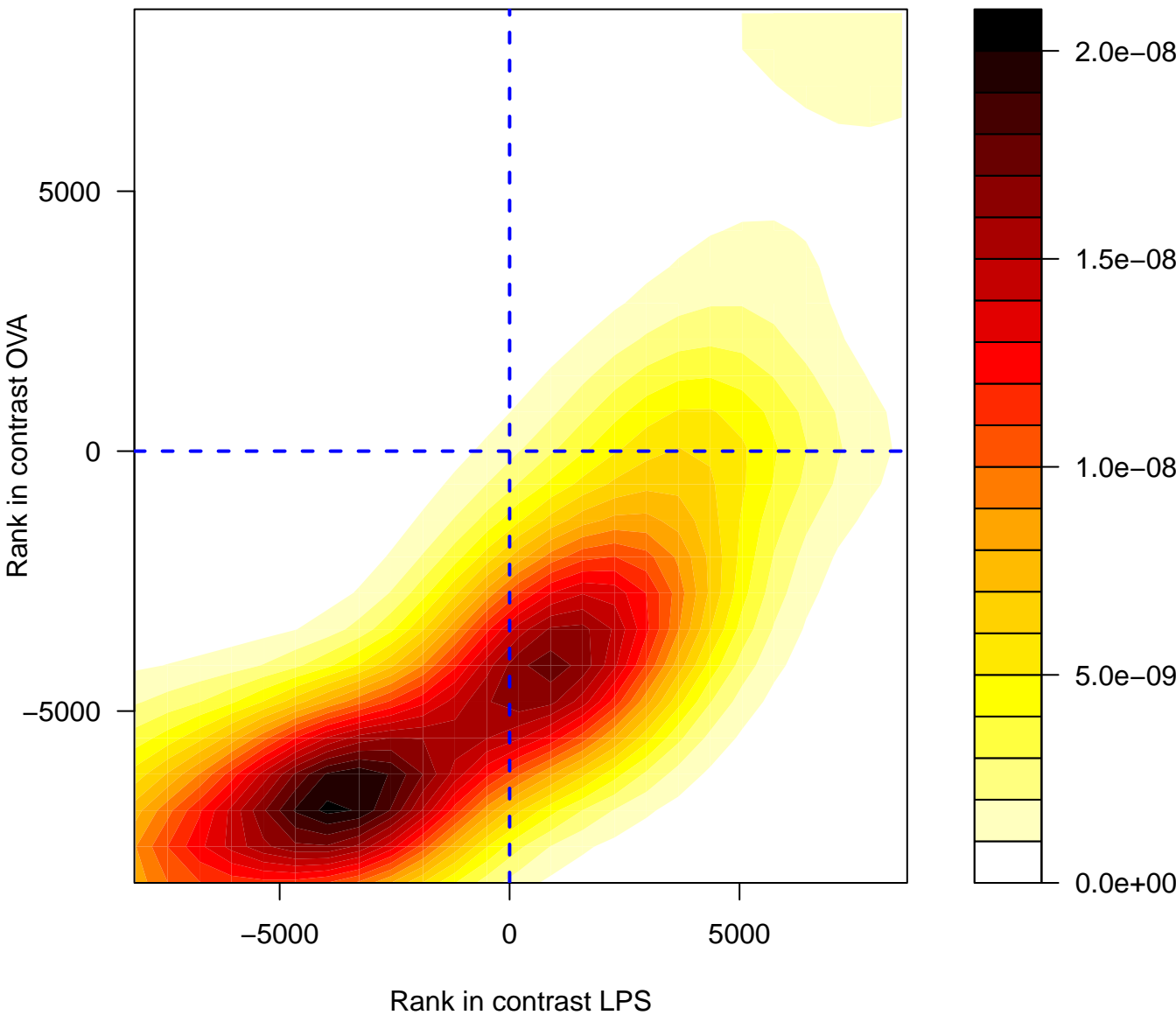


# NRAGE SIGNALS DEATH THROUGH JNK

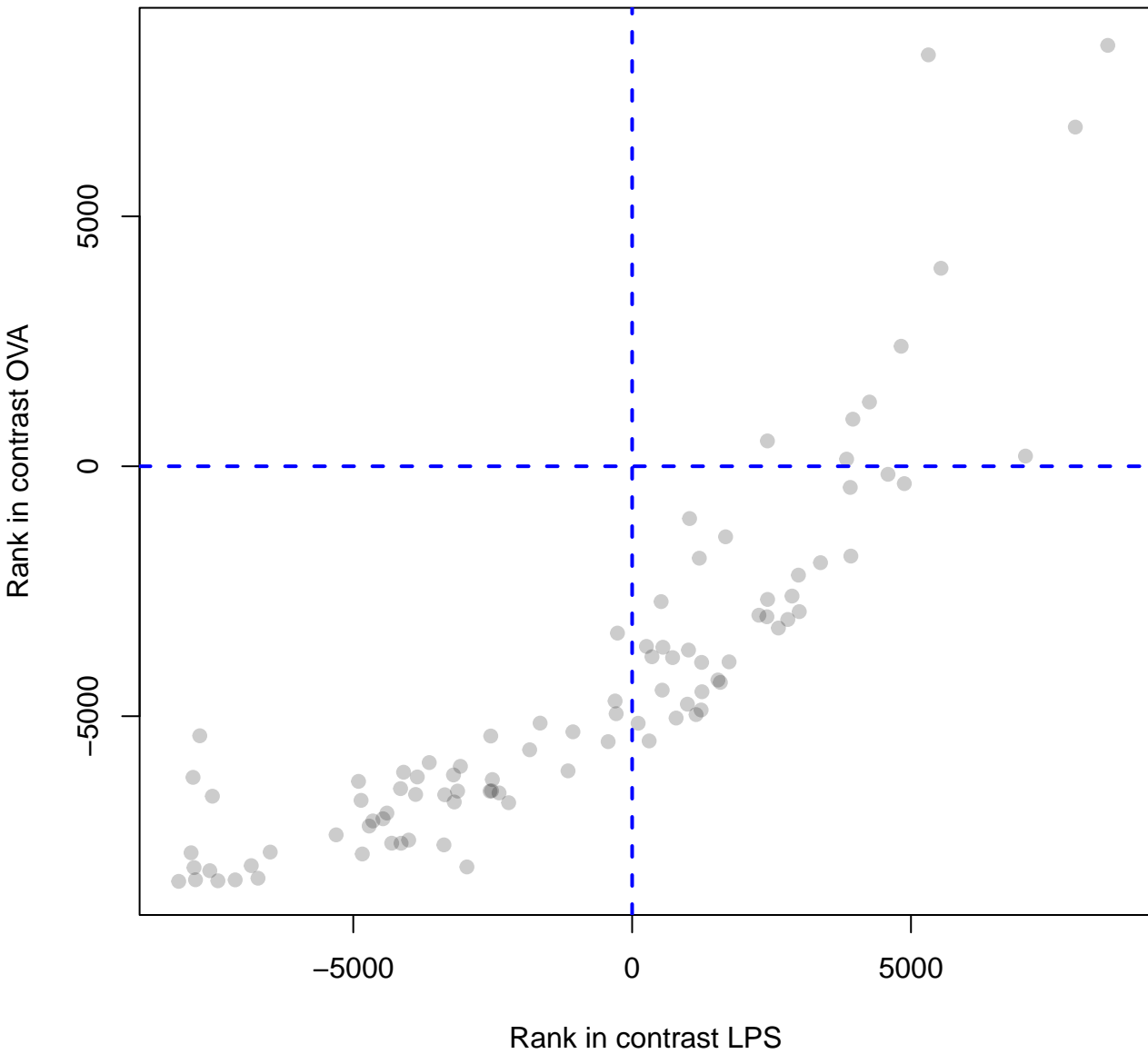




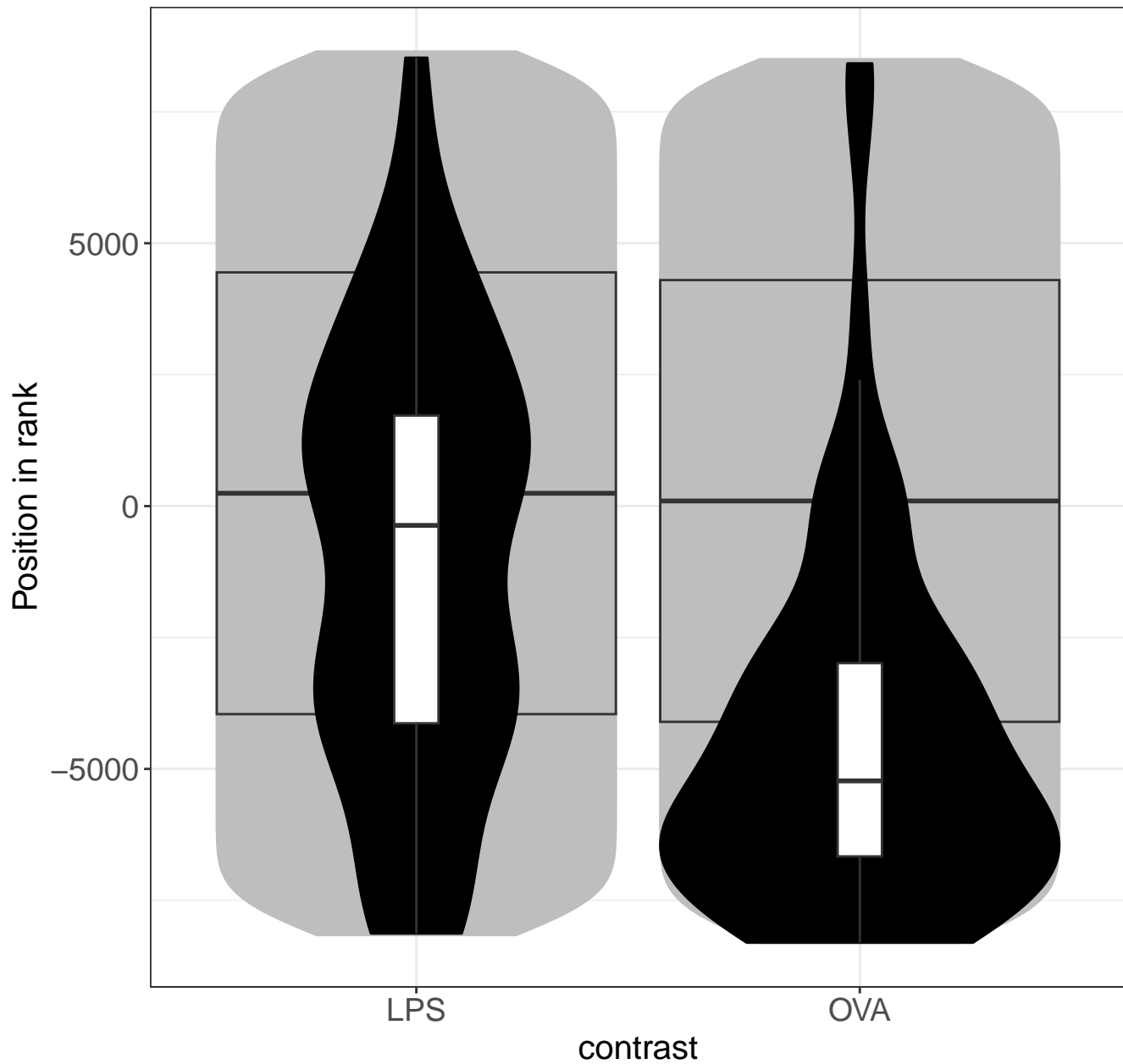
# RESPONSE OF EIF2AK4 GCN2 TO AMINO ACID DEFICIEN



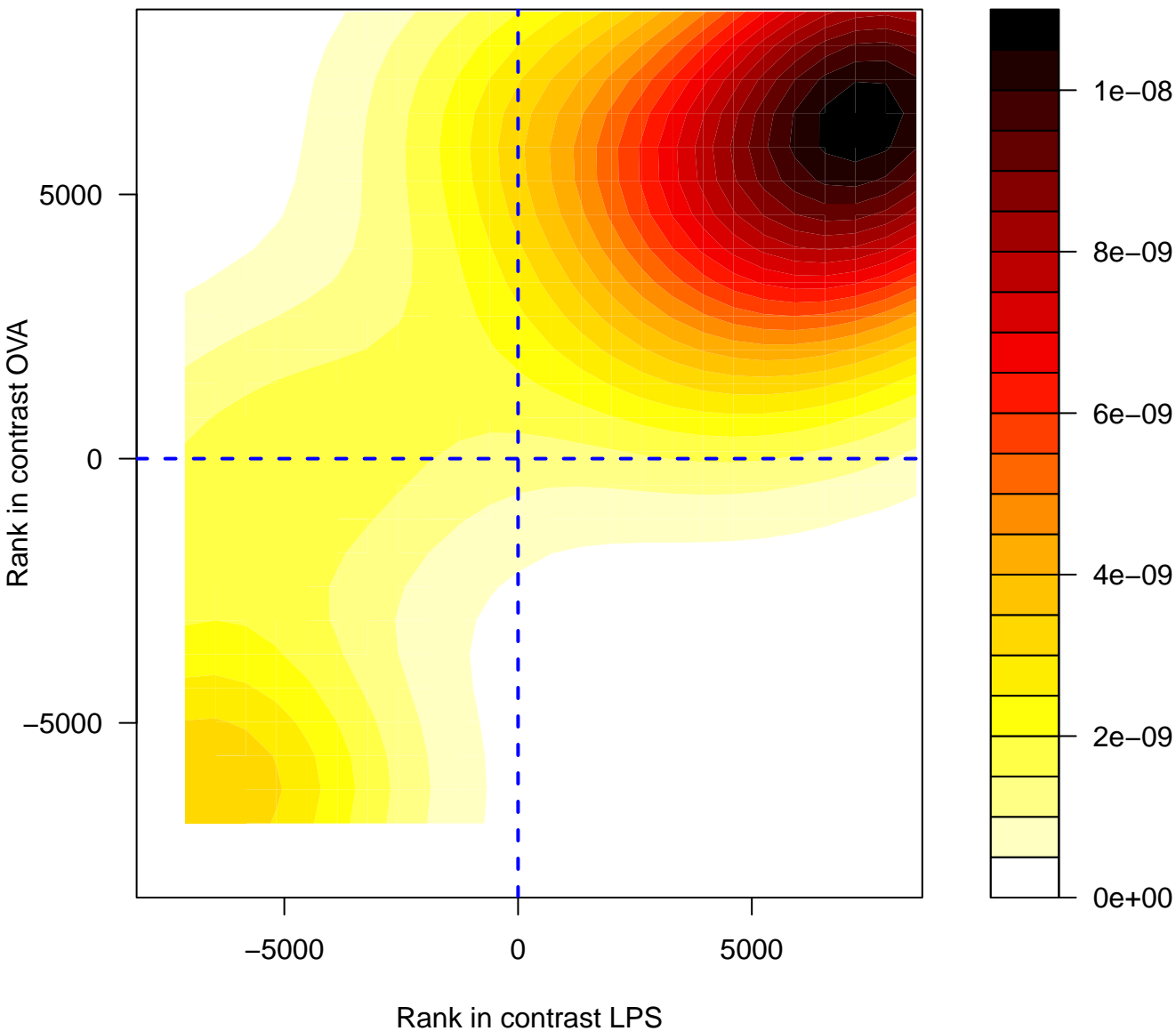
# RESPONSE OF EIF2AK4 GCN2 TO AMINO ACID DEFICIENCY



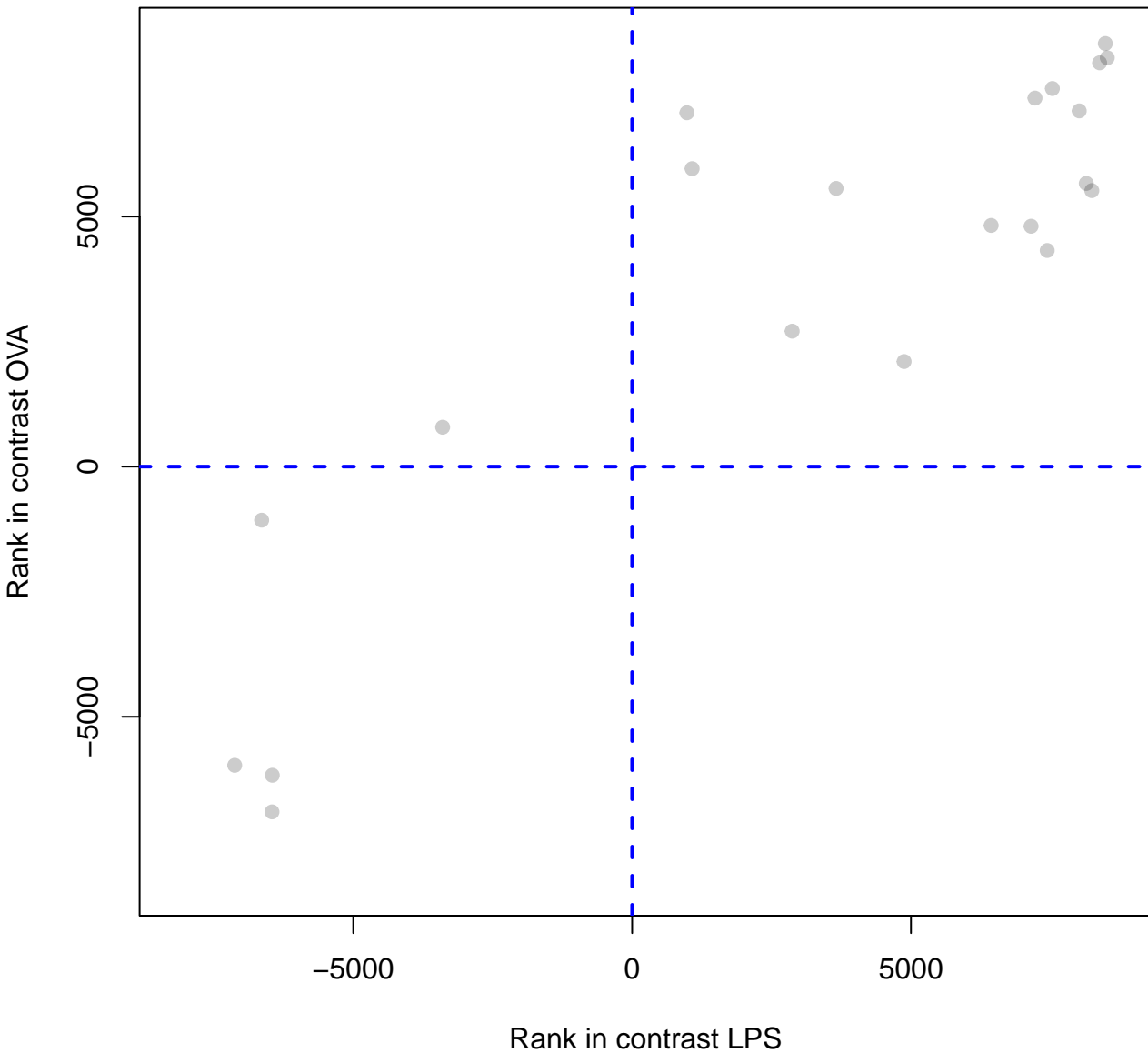
# RESPONSE OF EIF2AK4 GCN2 TO AMINO ACID



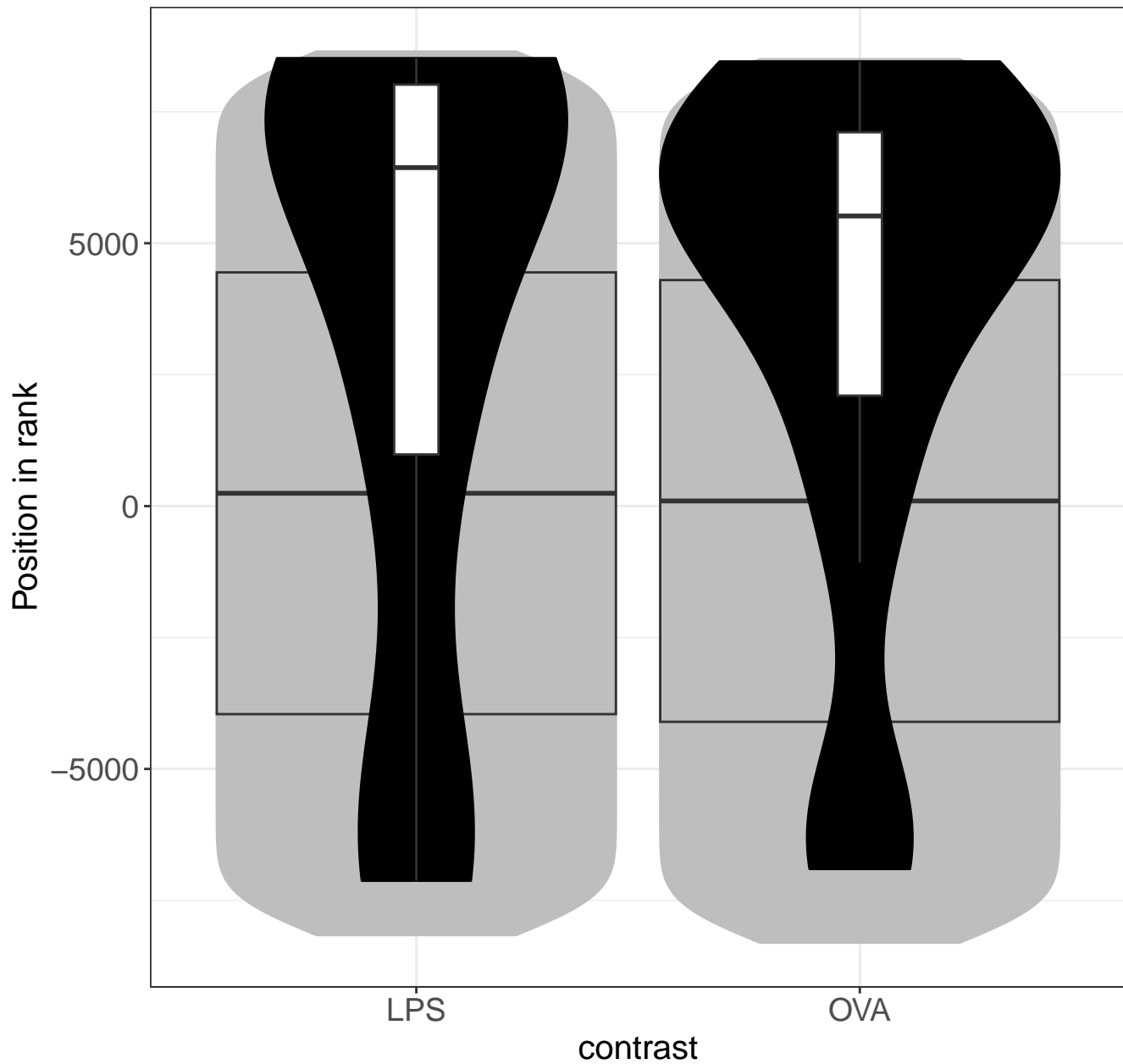
# SYNAPTIC ADHESION LIKE MOLECULES



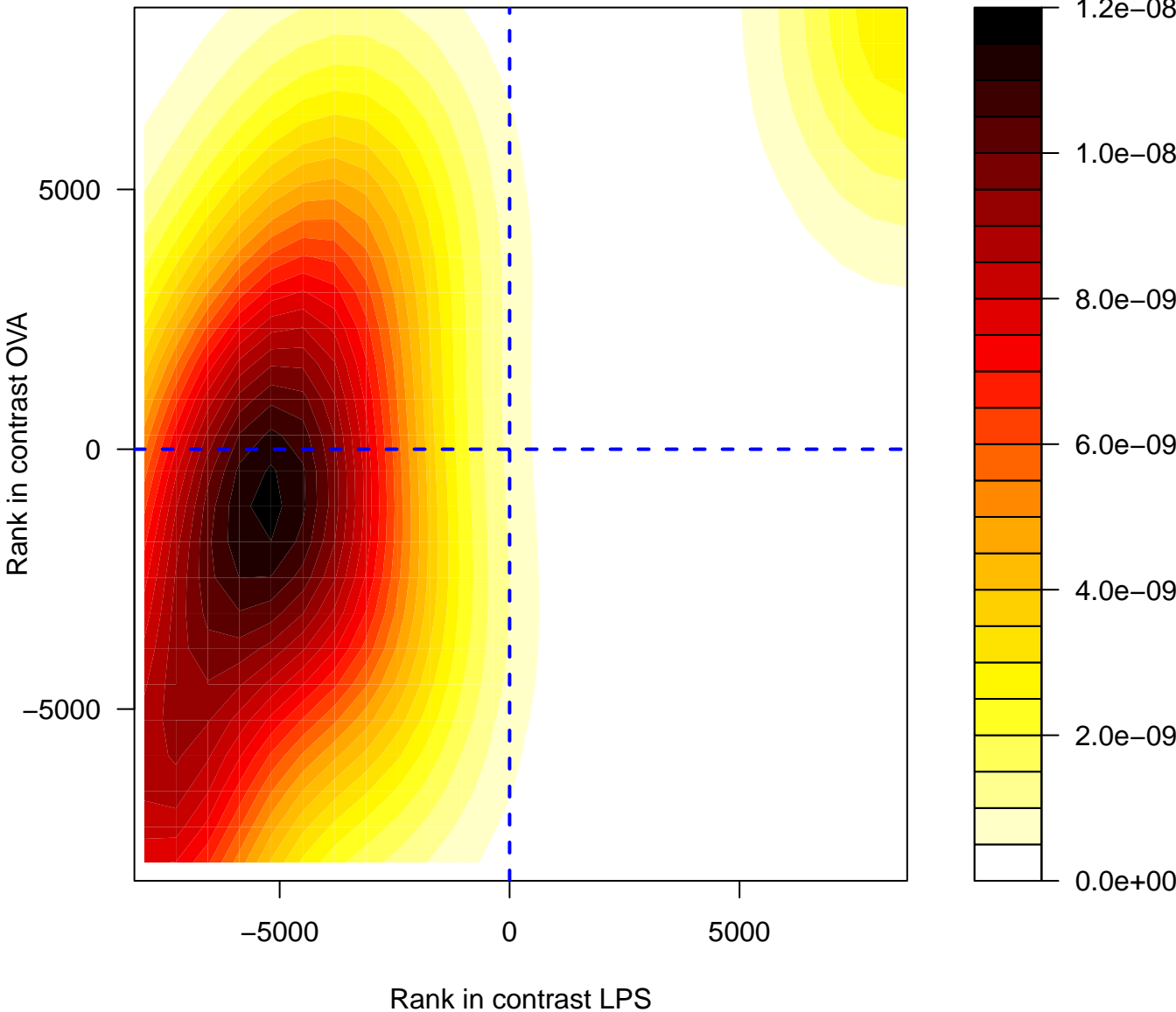
# SYNAPTIC ADHESION LIKE MOLECULES



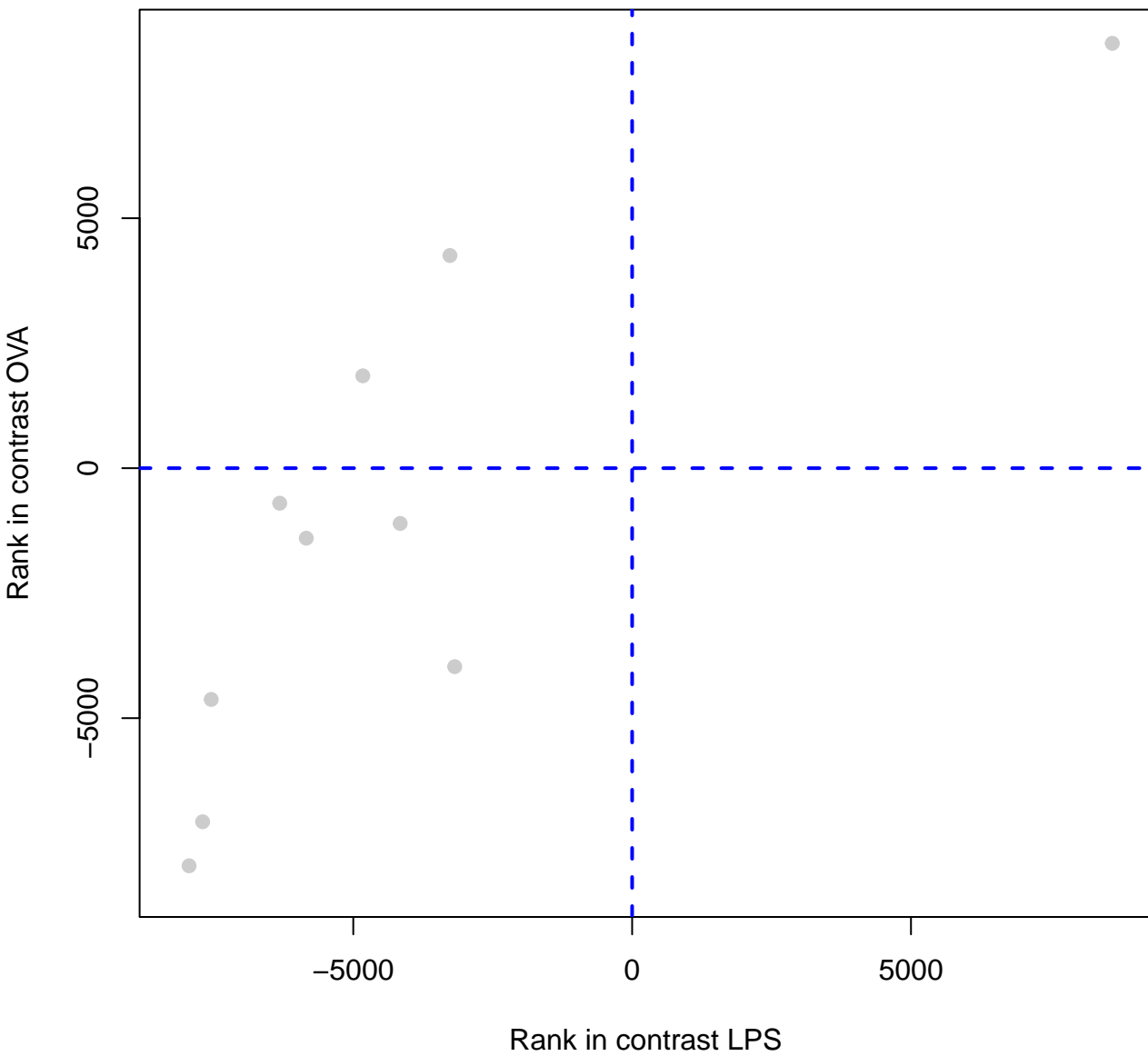
# SYNAPTIC ADHESION LIKE MOLECULES



# COHESIN LOADING ONTO CHROMATIN

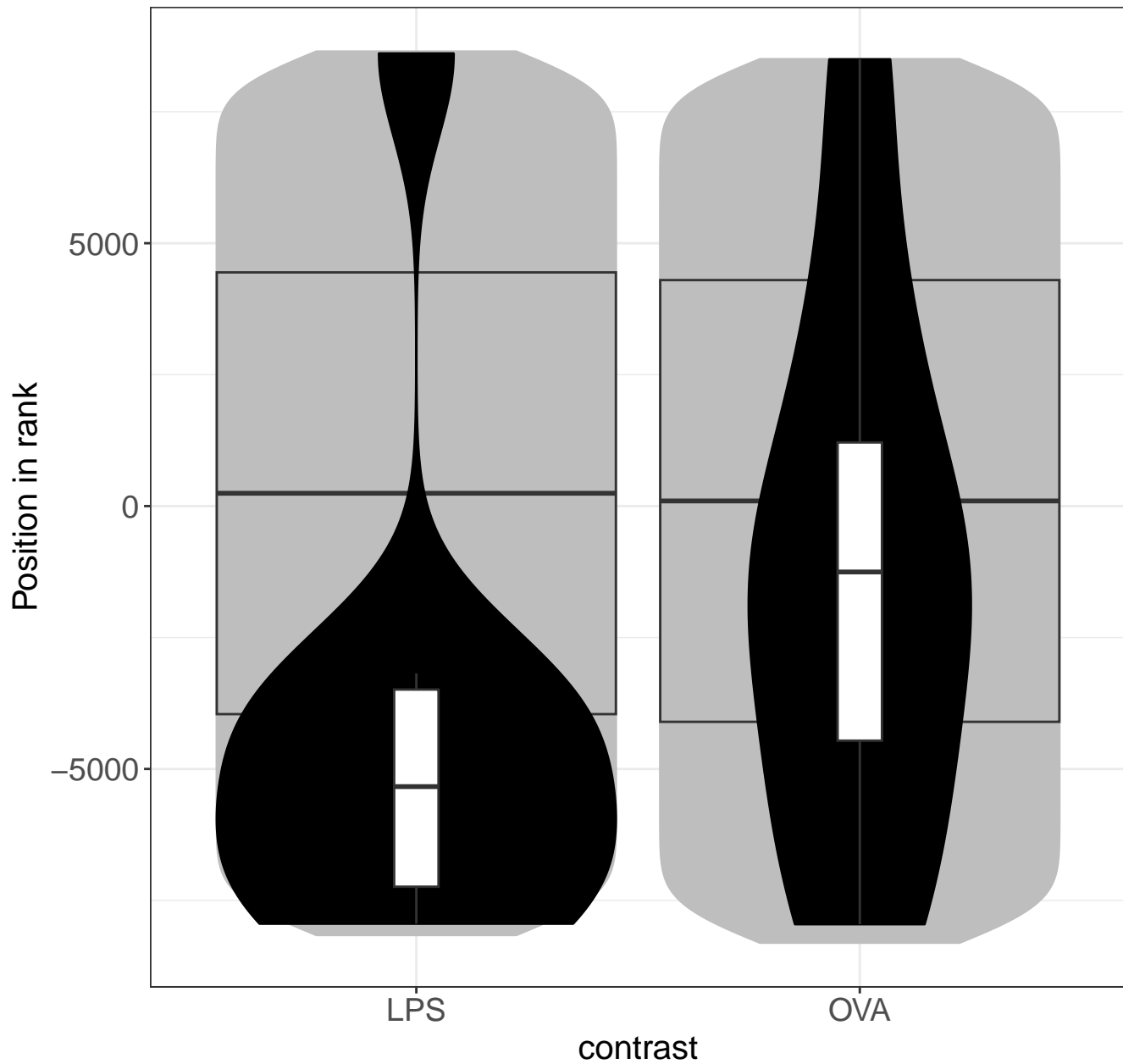


# COHESIN LOADING ONTO CHROMATIN

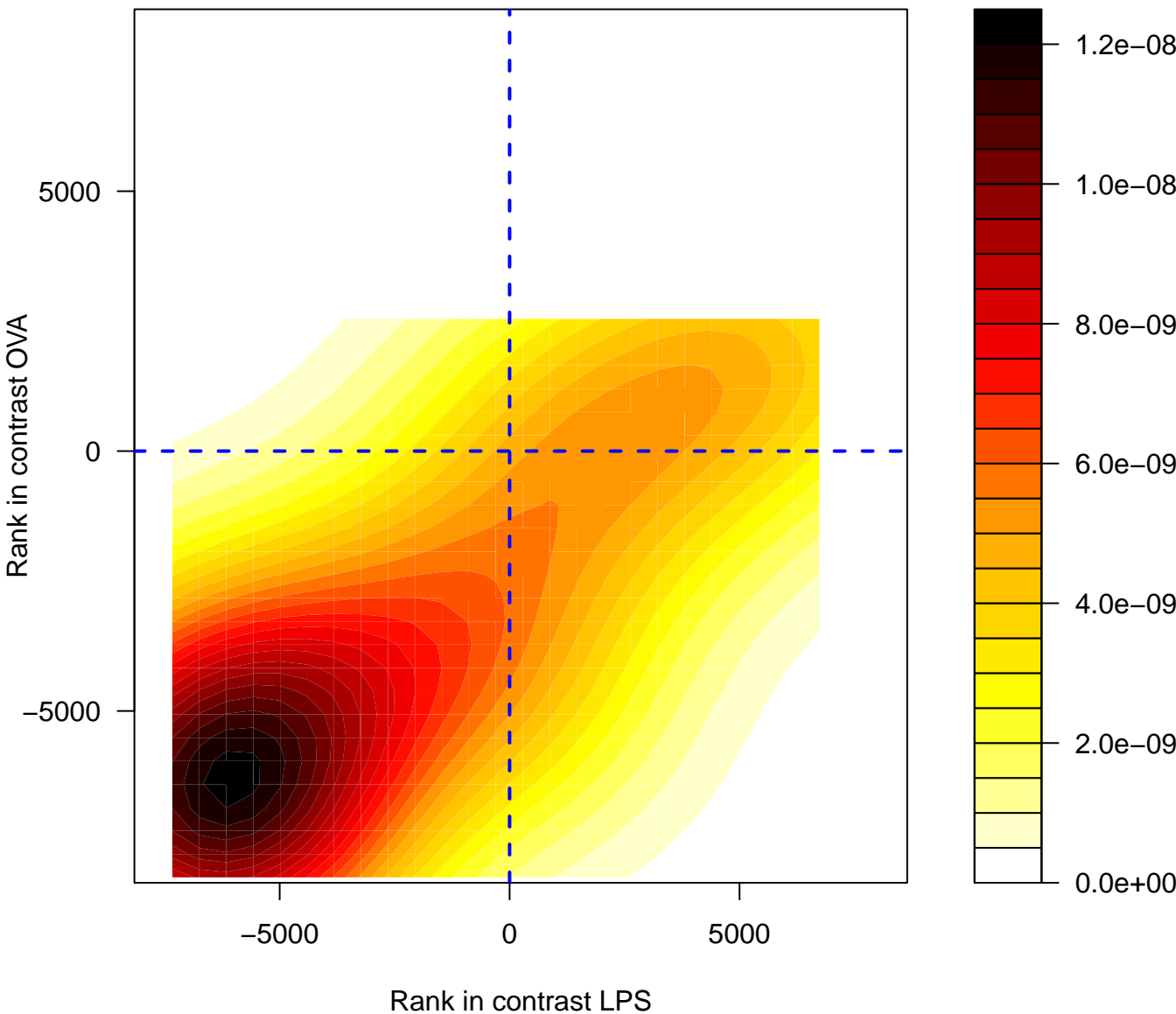




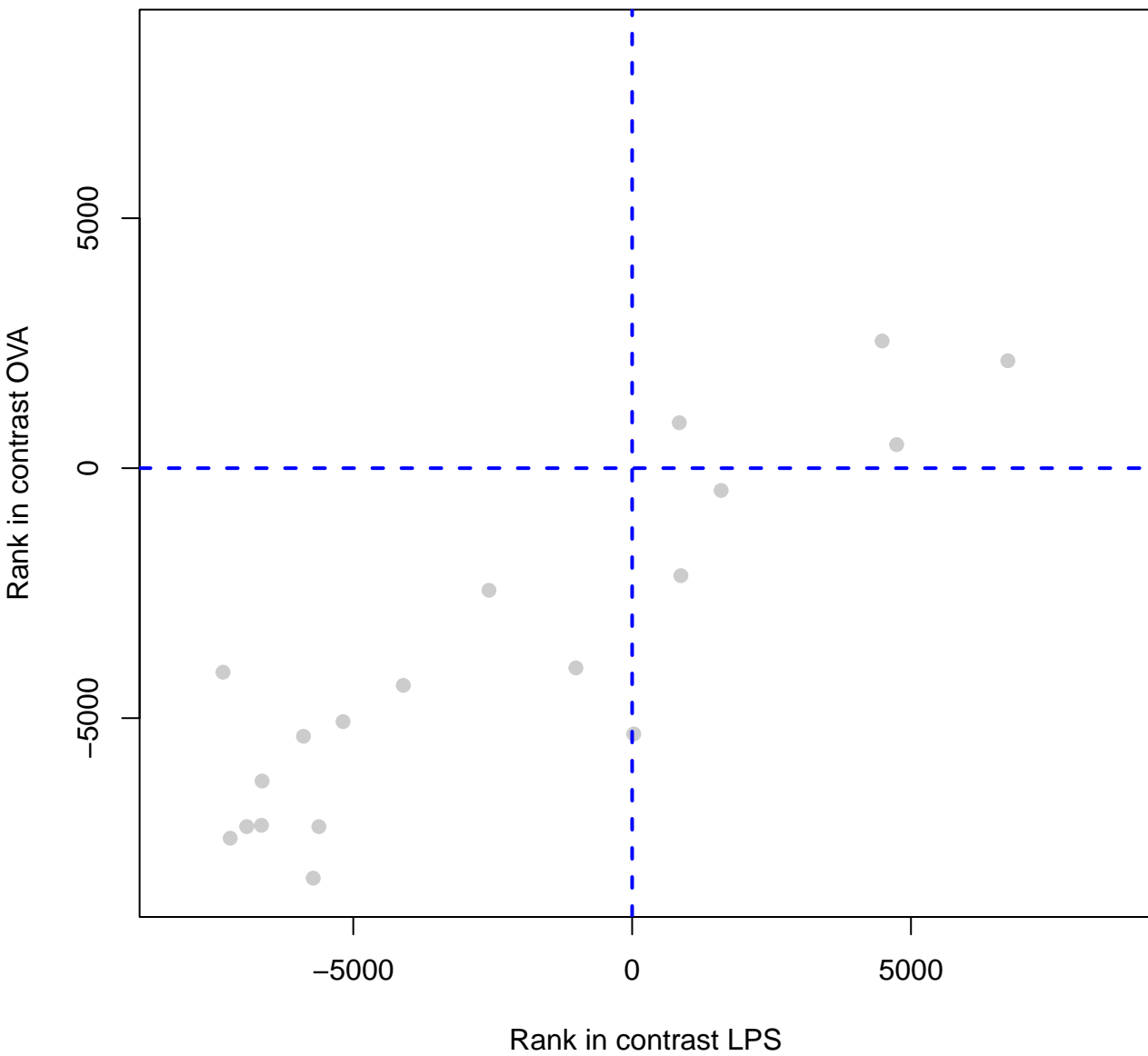
# COHESIN LOADING ONTO CHROMATIN



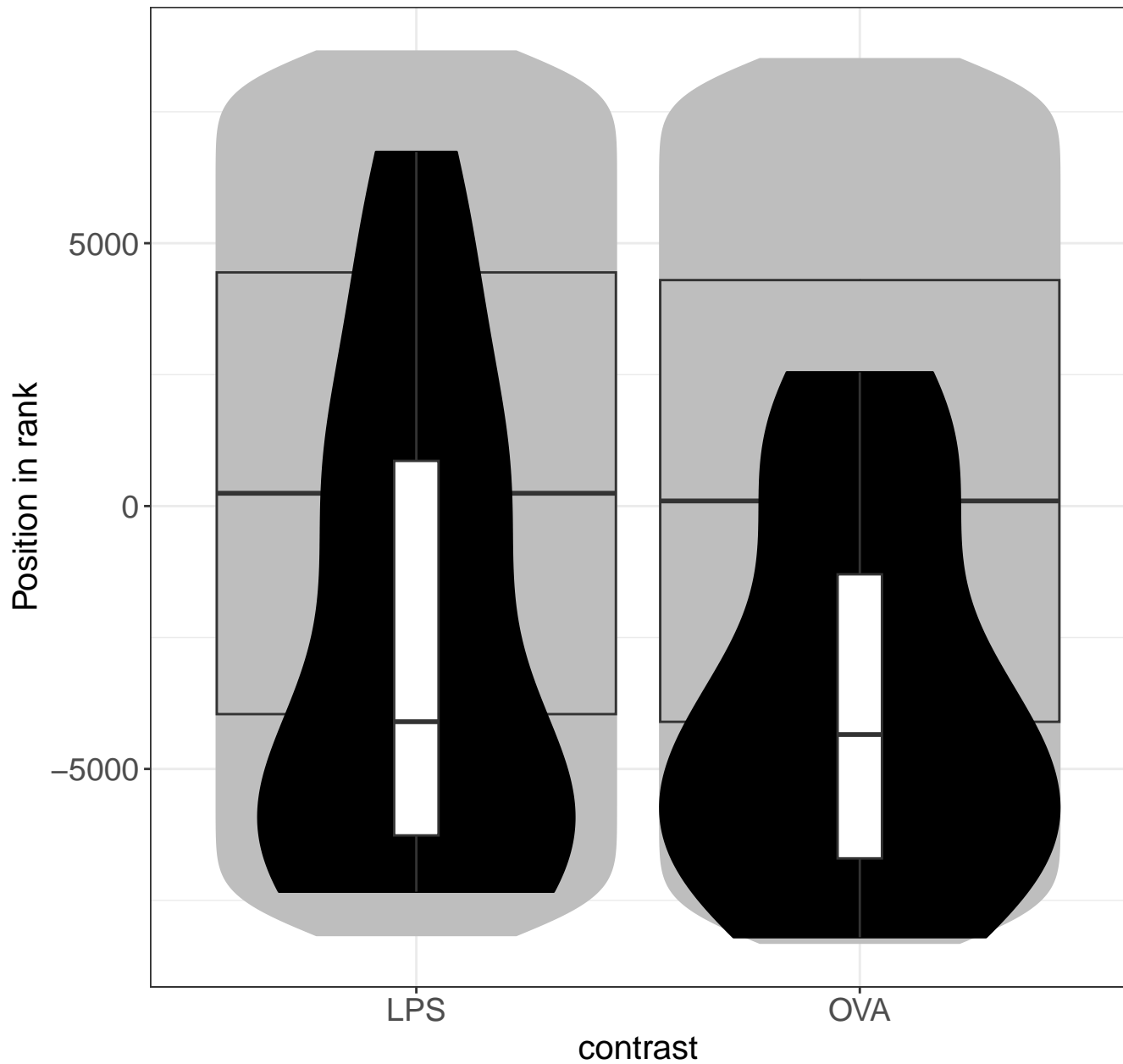
# ADP SIGNALLING THROUGH P2Y PURINOCEPTOR 12



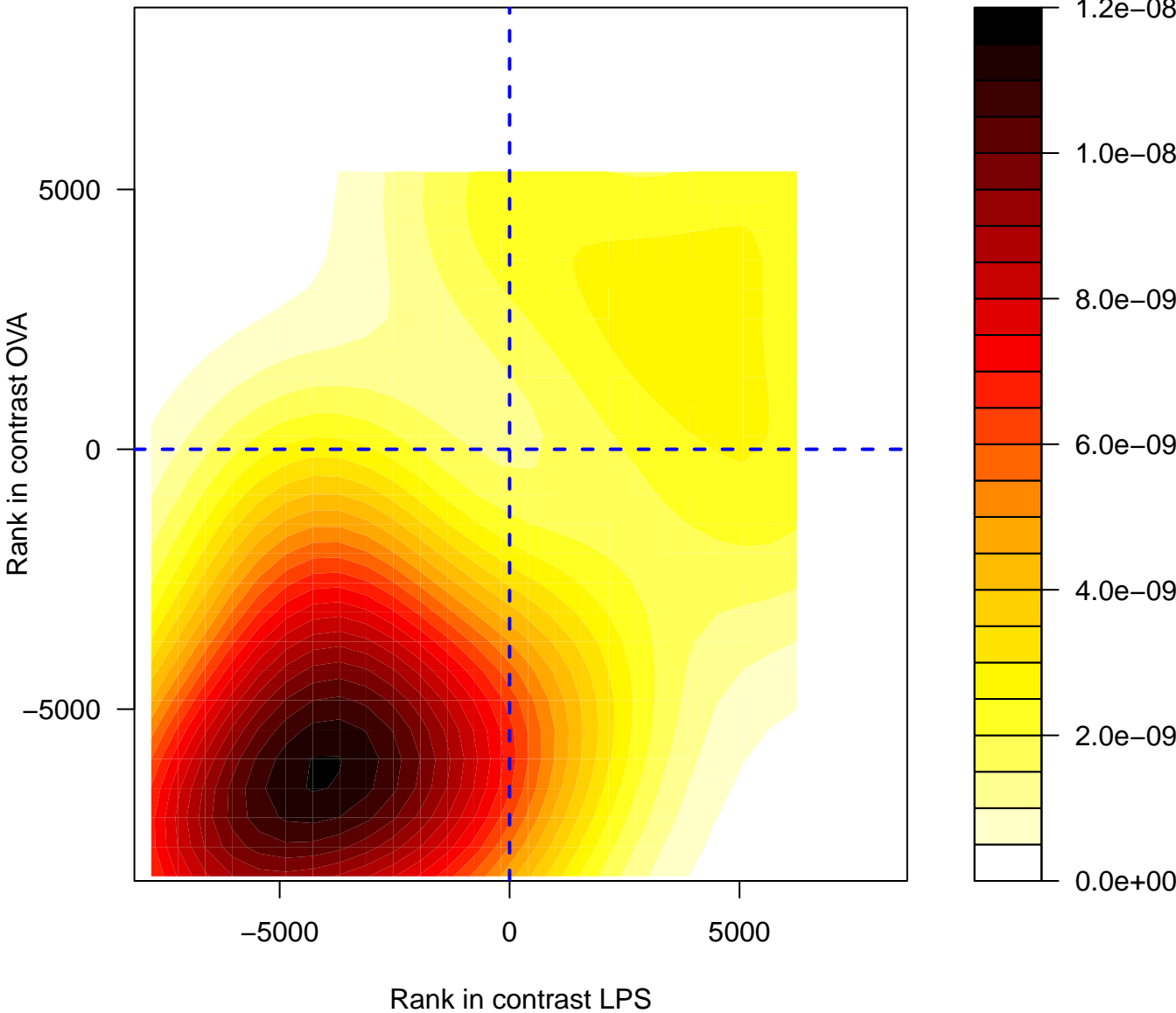
# ADP SIGNALLING THROUGH P2Y PURINOCEPTOR 12



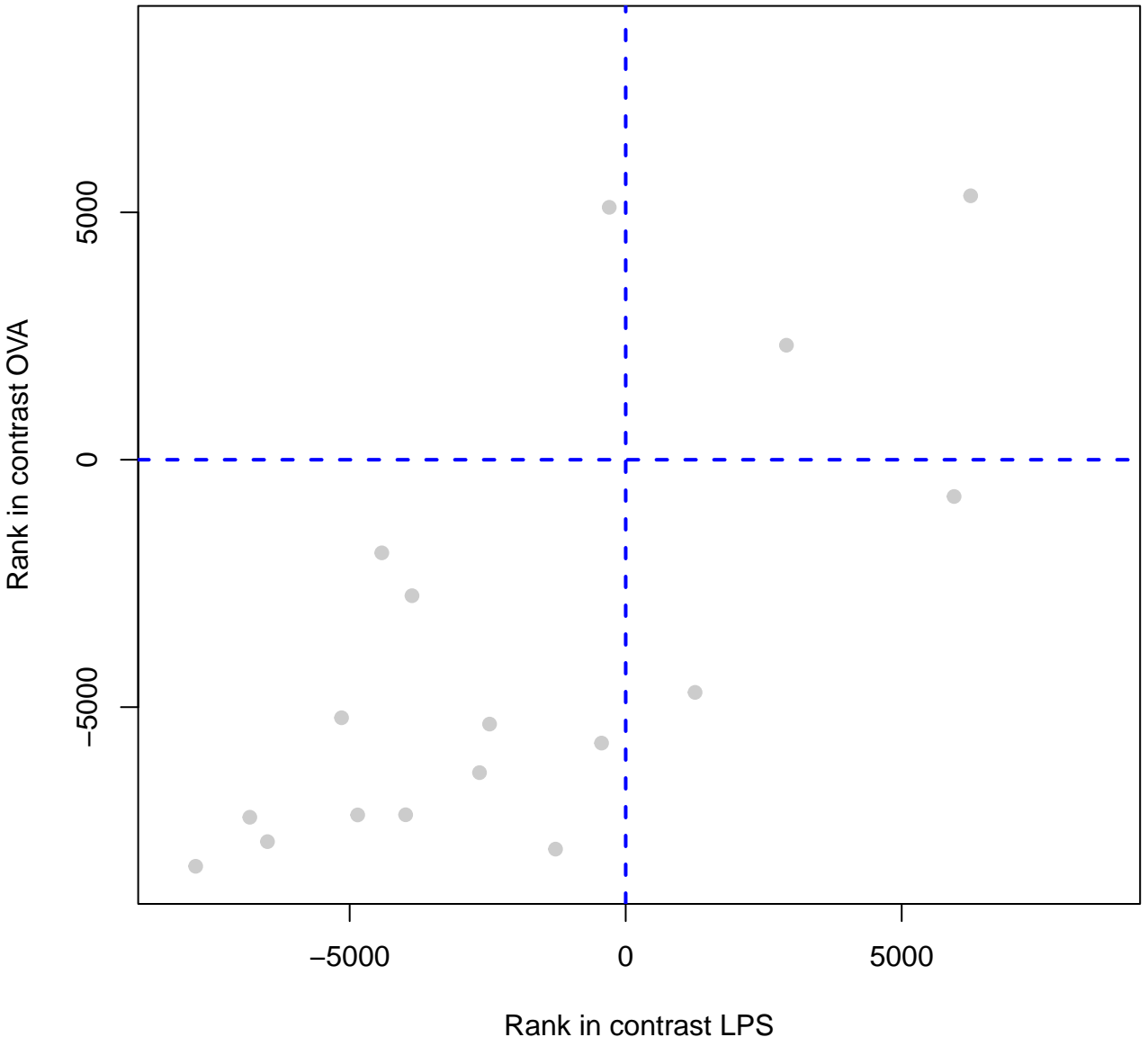
# ADP SIGNALLING THROUGH P2Y PURINOCEPTORS



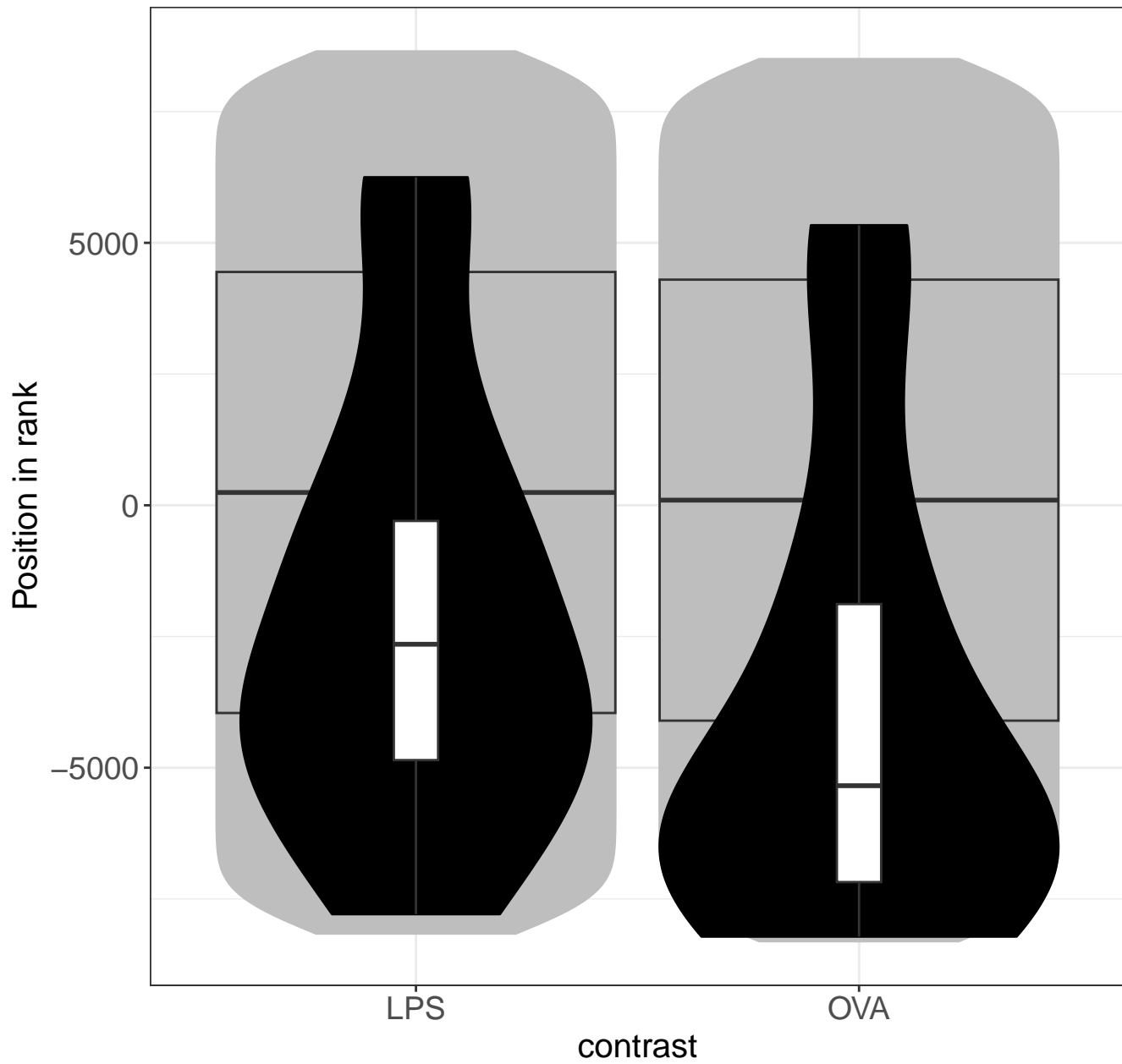
# PROTEIN METHYLATION



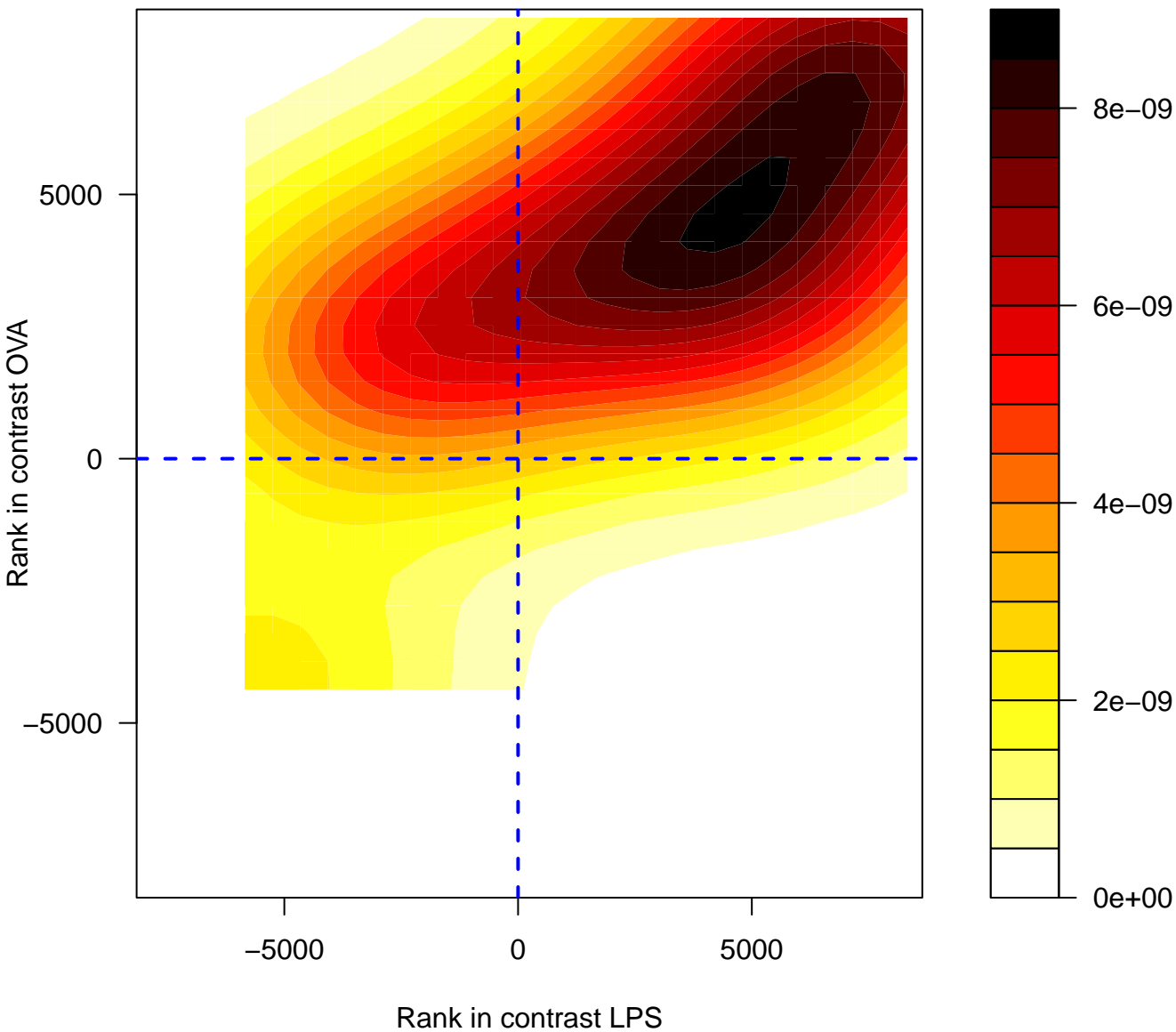
# PROTEIN METHYLATION



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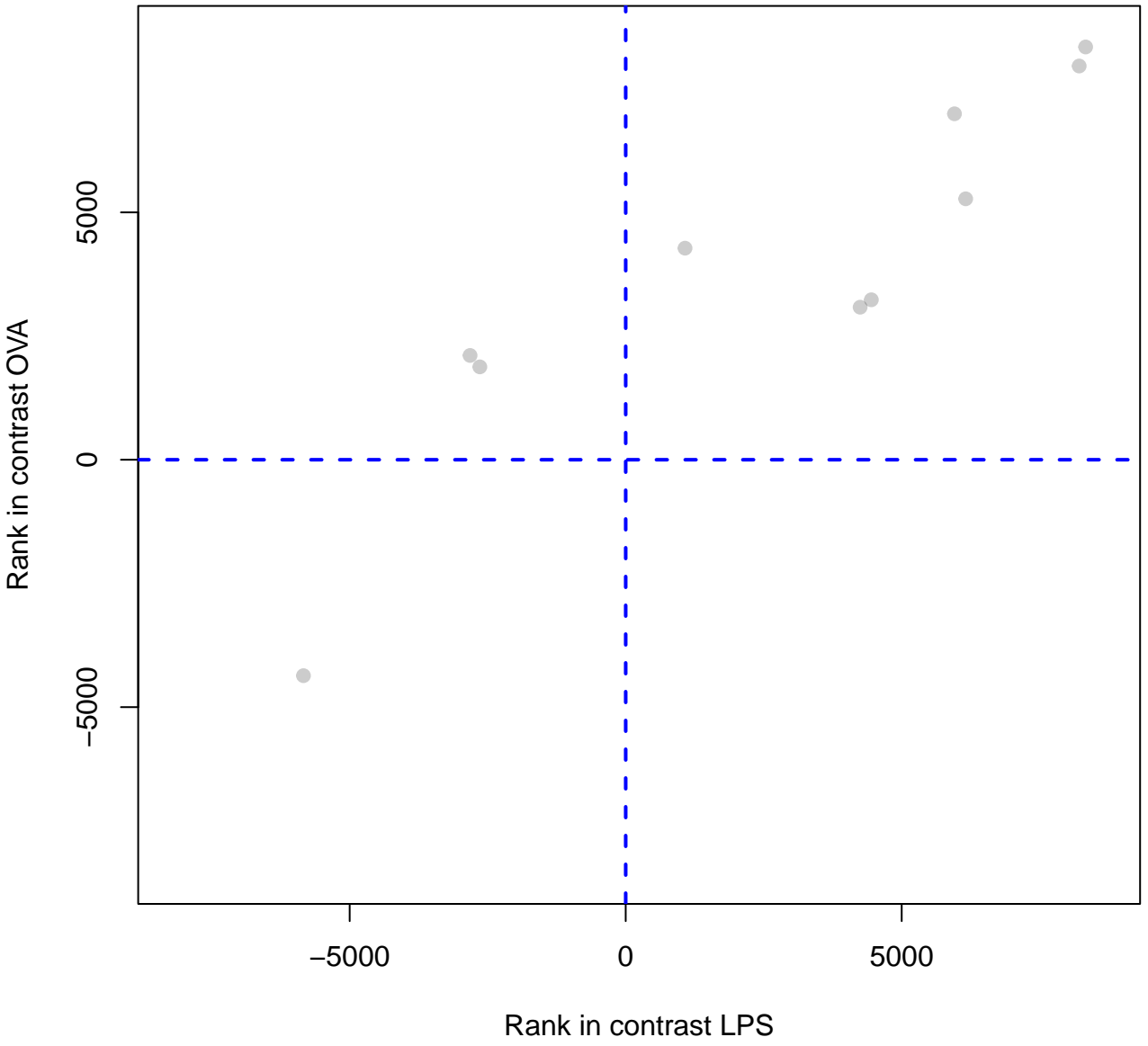


# REGULATION OF COMMISSURAL AXON PATHFINDING BY SLIT 1

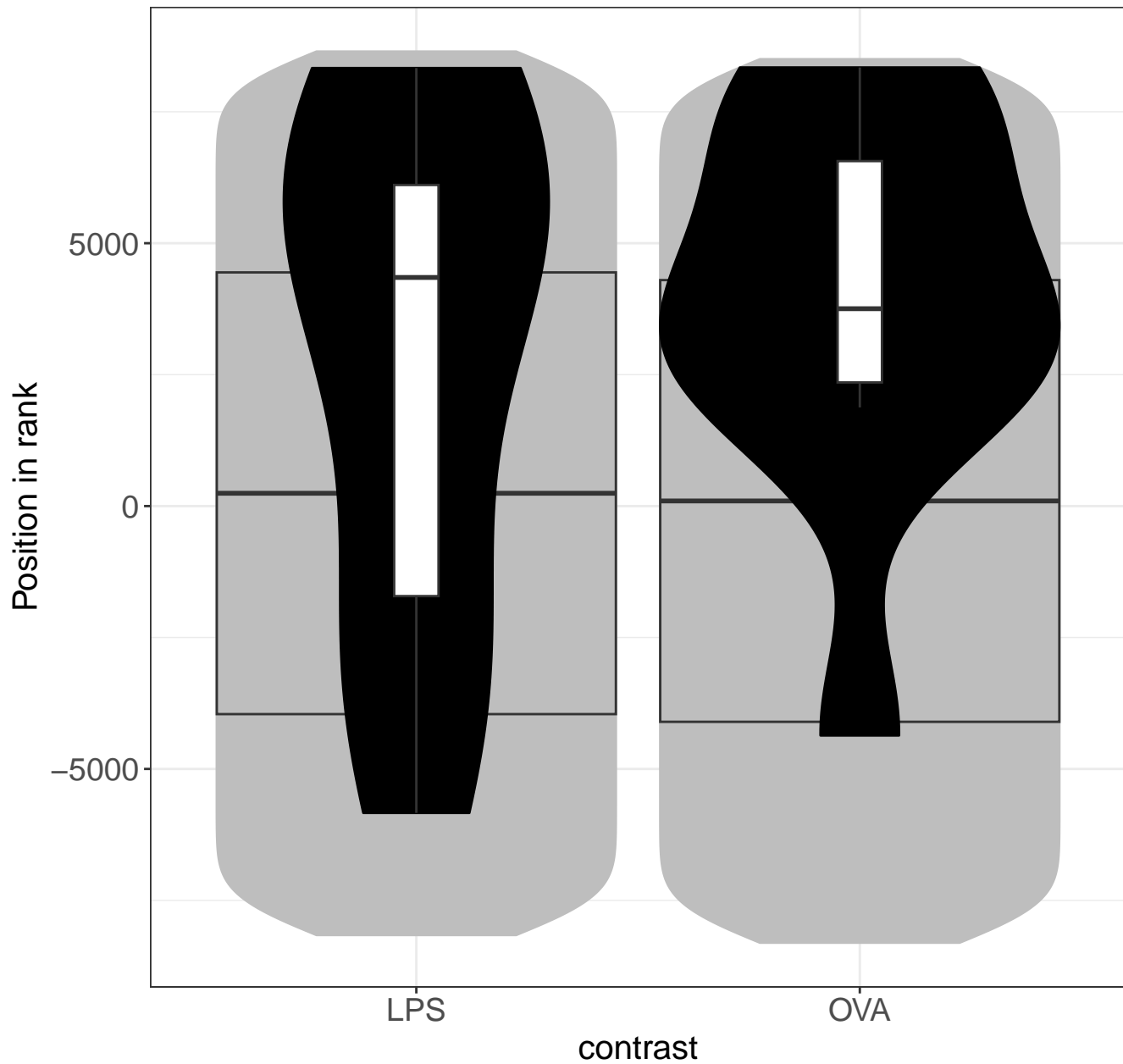




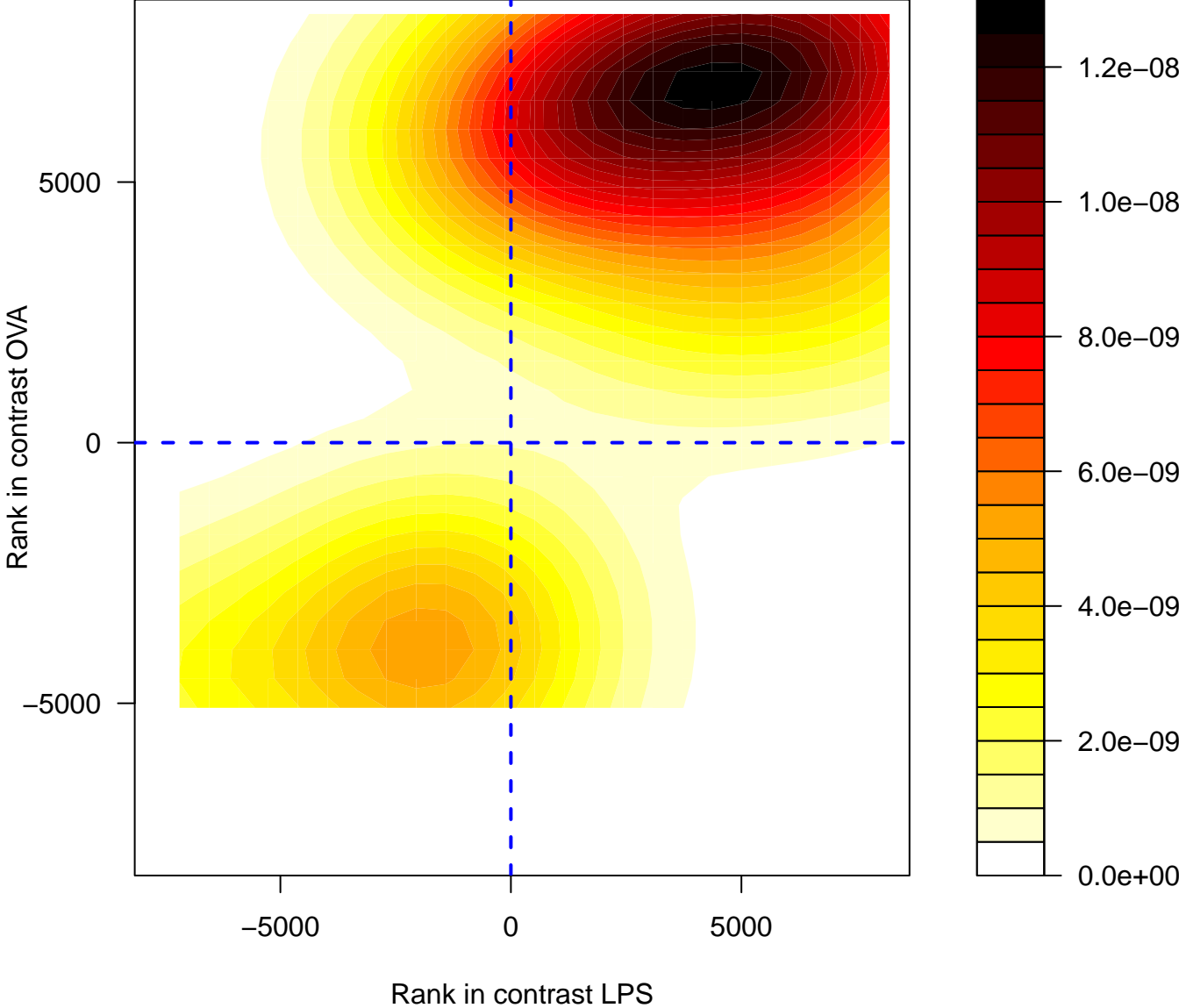
# REGULATION OF COMMISSURAL AXON PATHFINDING BY SLIT AND ROBO



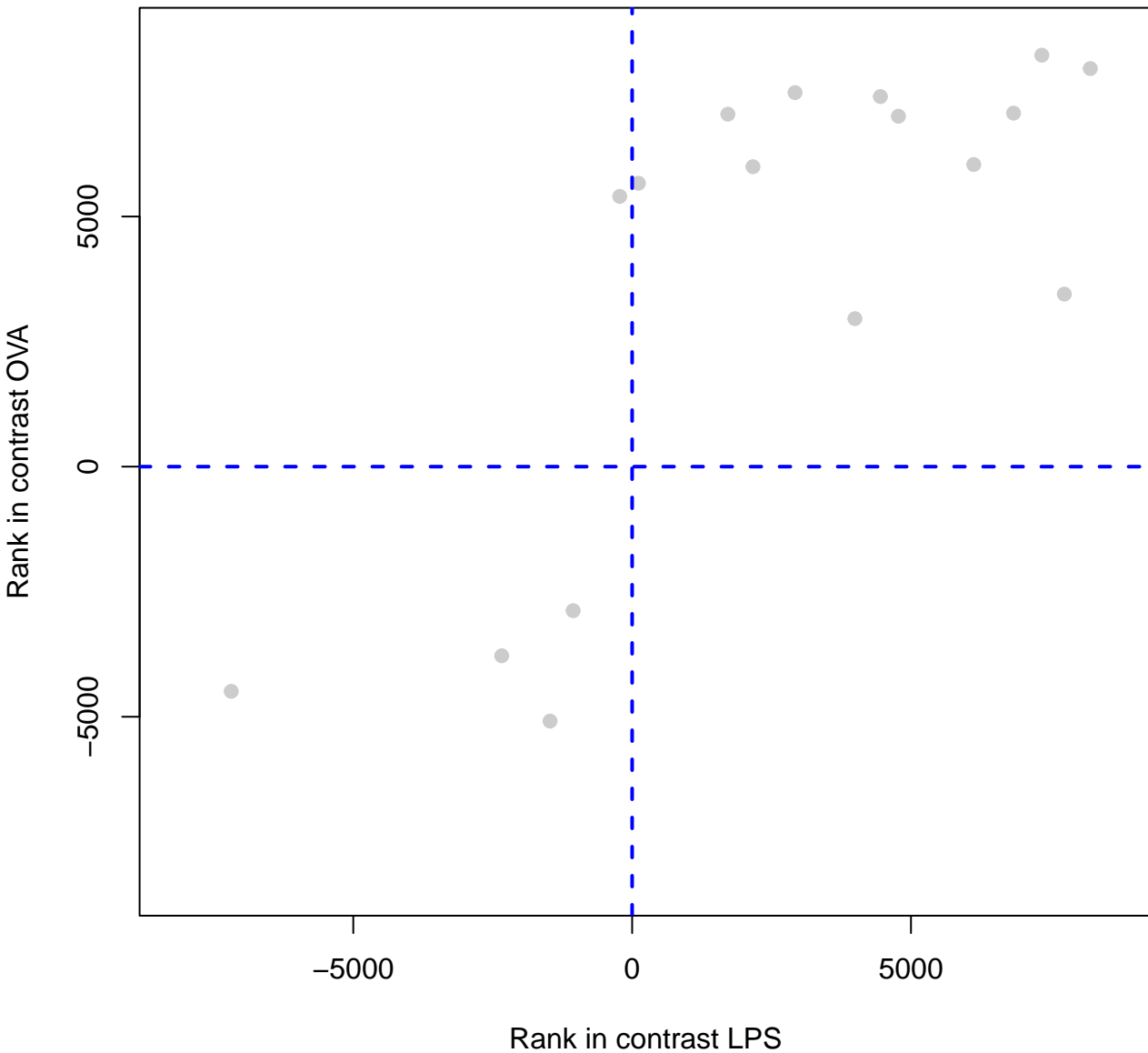
# REGULATION OF COMMISSURAL AXON PATHF



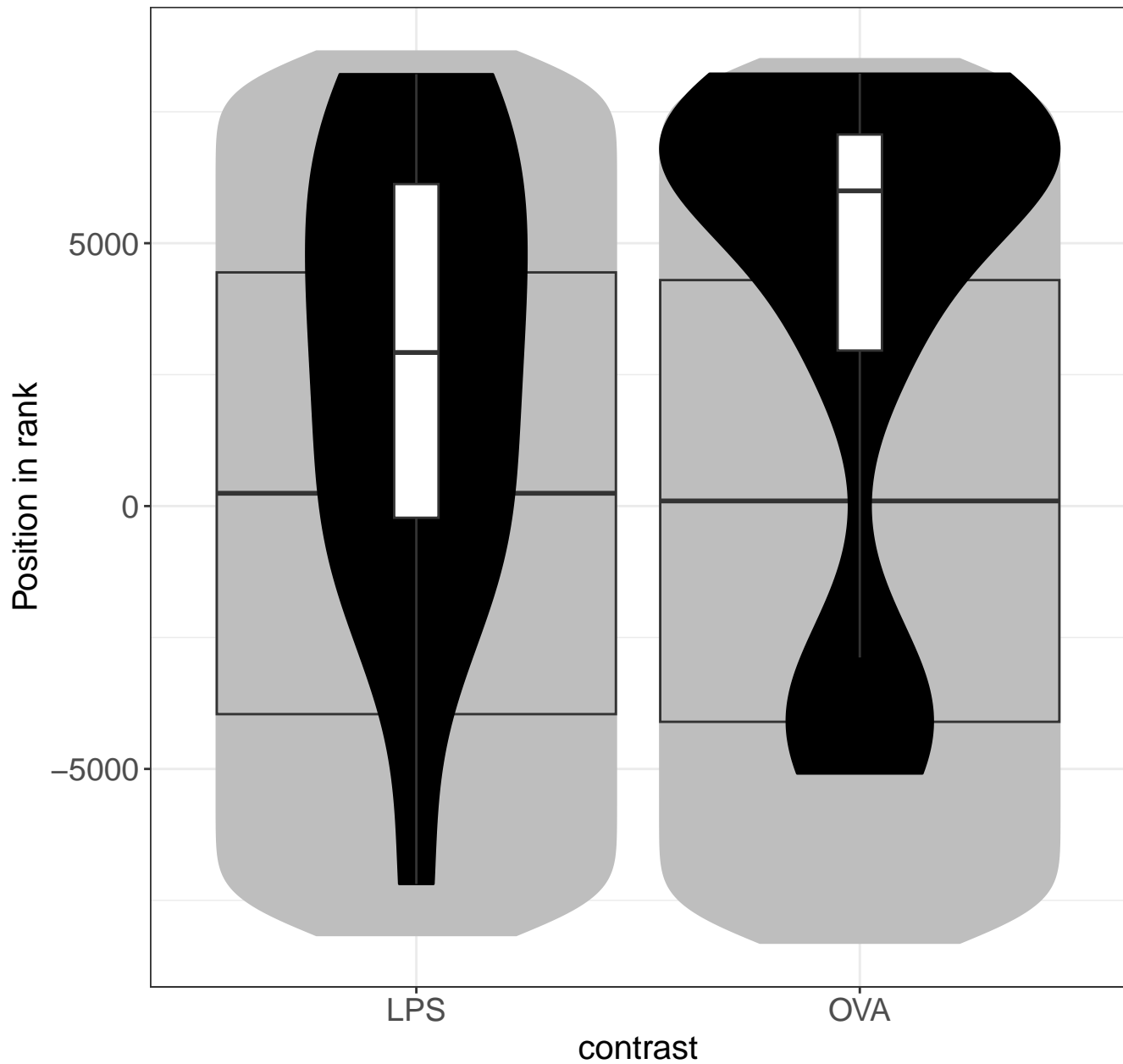
# REGULATION OF RUNX1 EXPRESSION AND ACTIVITY



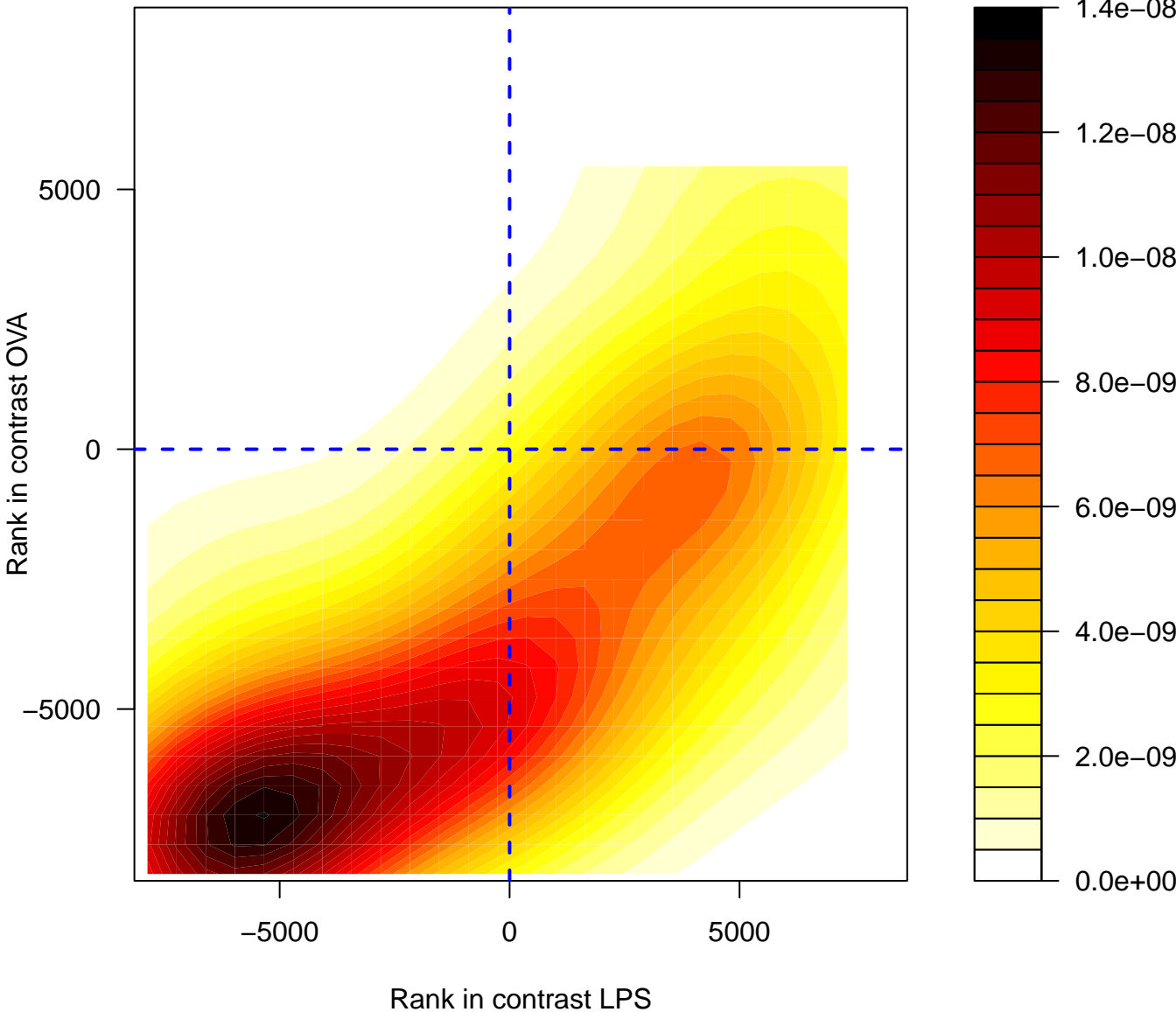
# REGULATION OF RUNX1 EXPRESSION AND ACTIVITY



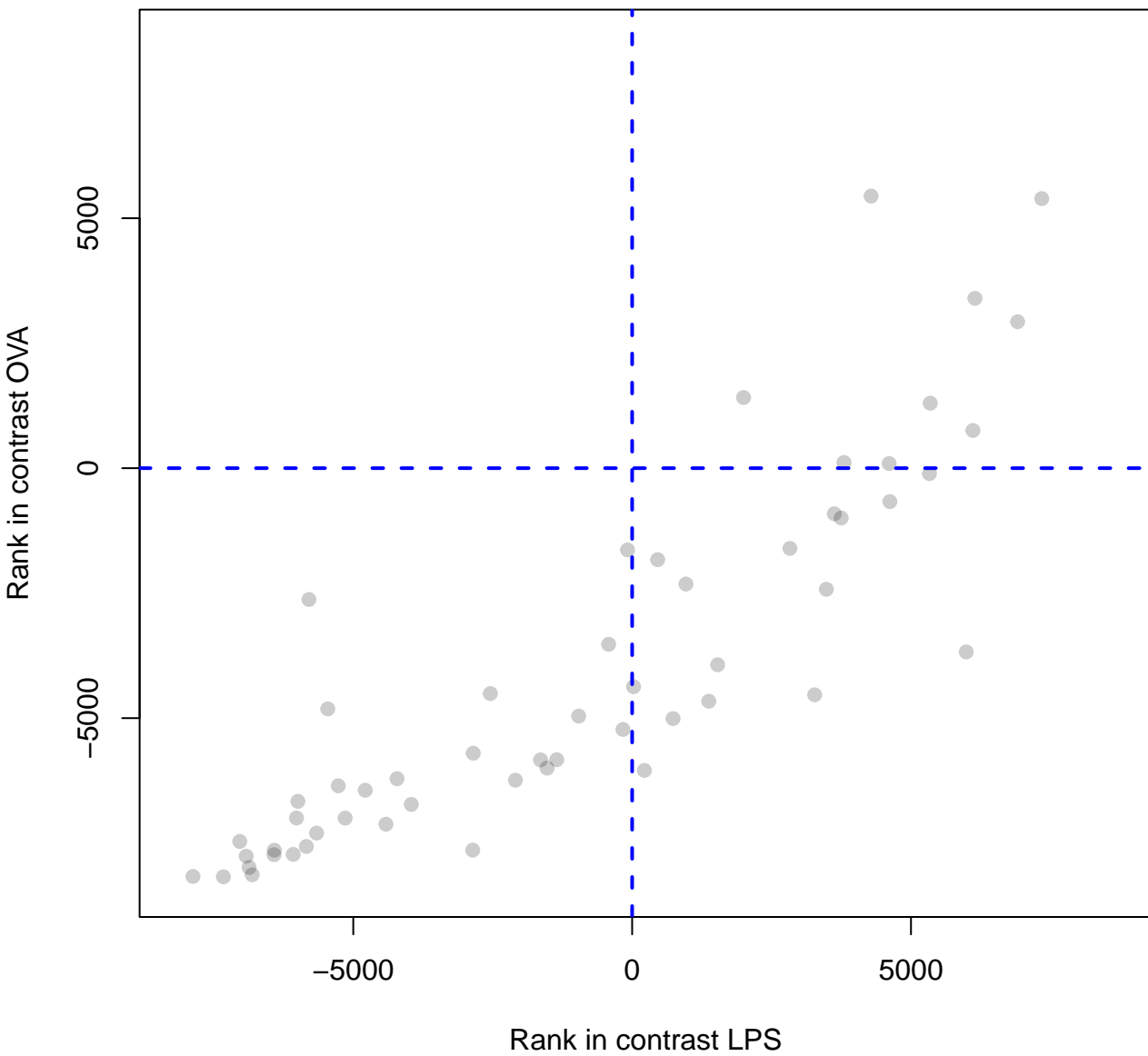
# REGULATION OF RUNX1 EXPRESSION AND A



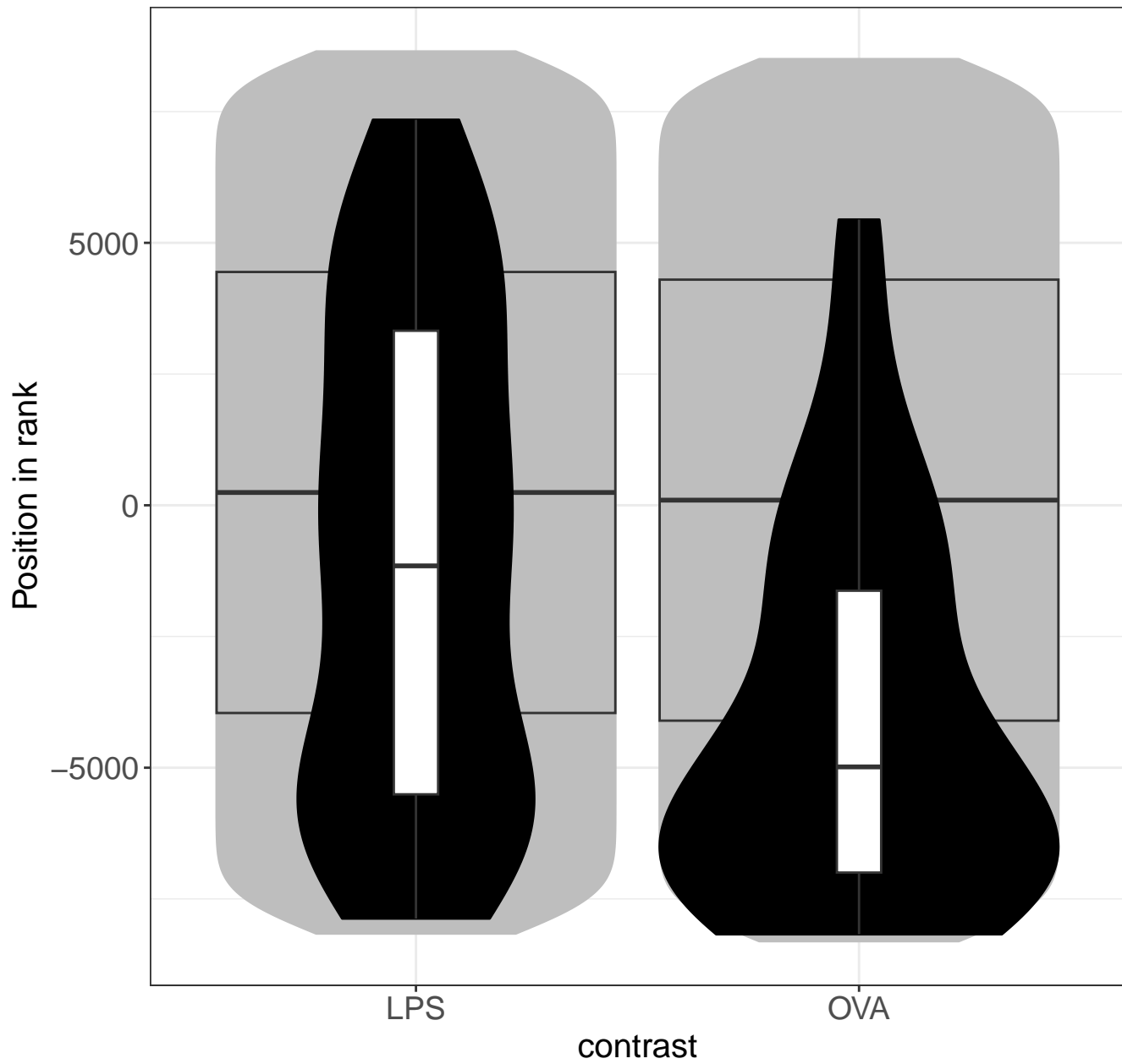
# COMPLEX I BIOGENESIS



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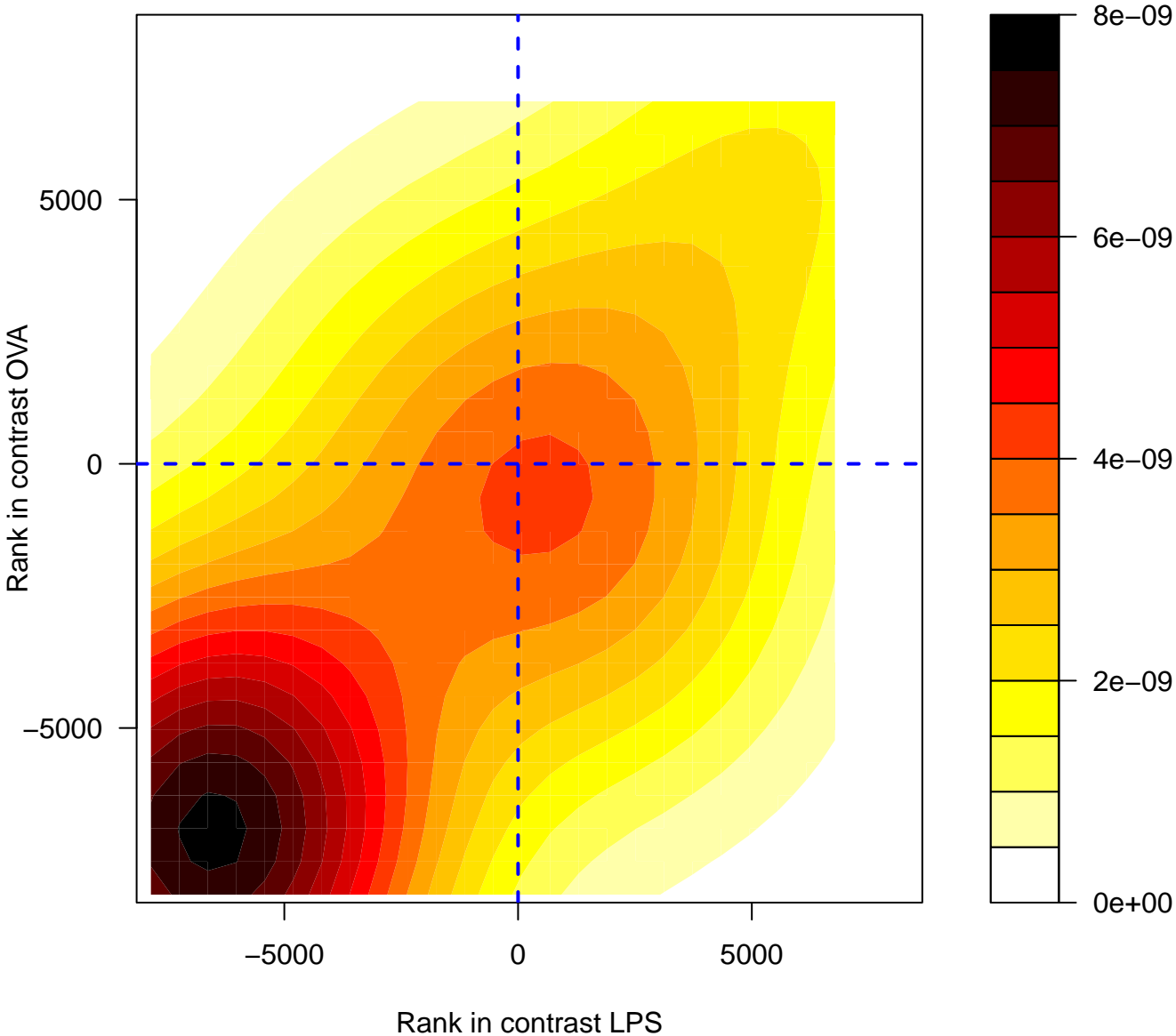


# COMPLEX I BIOGENESIS

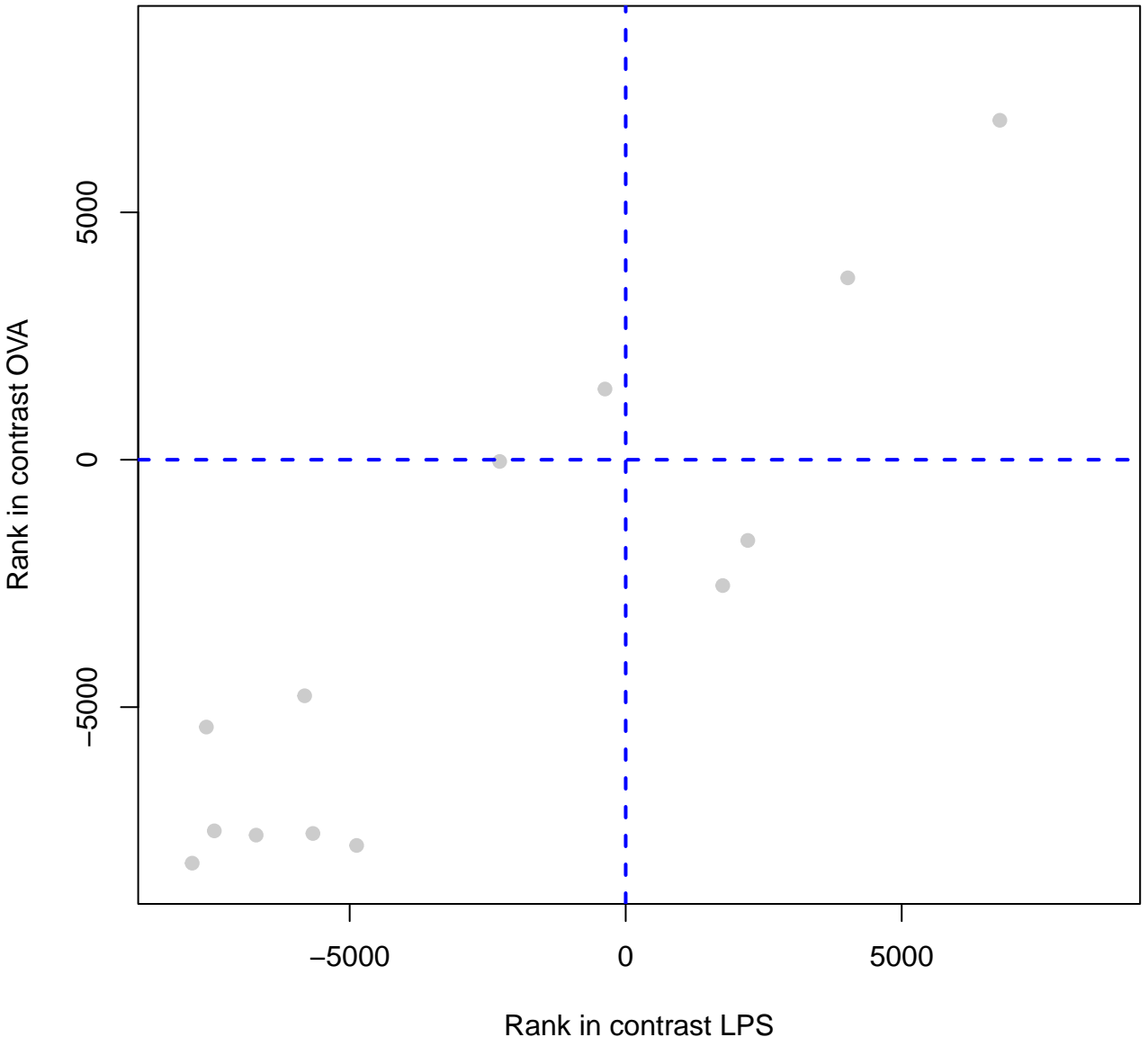




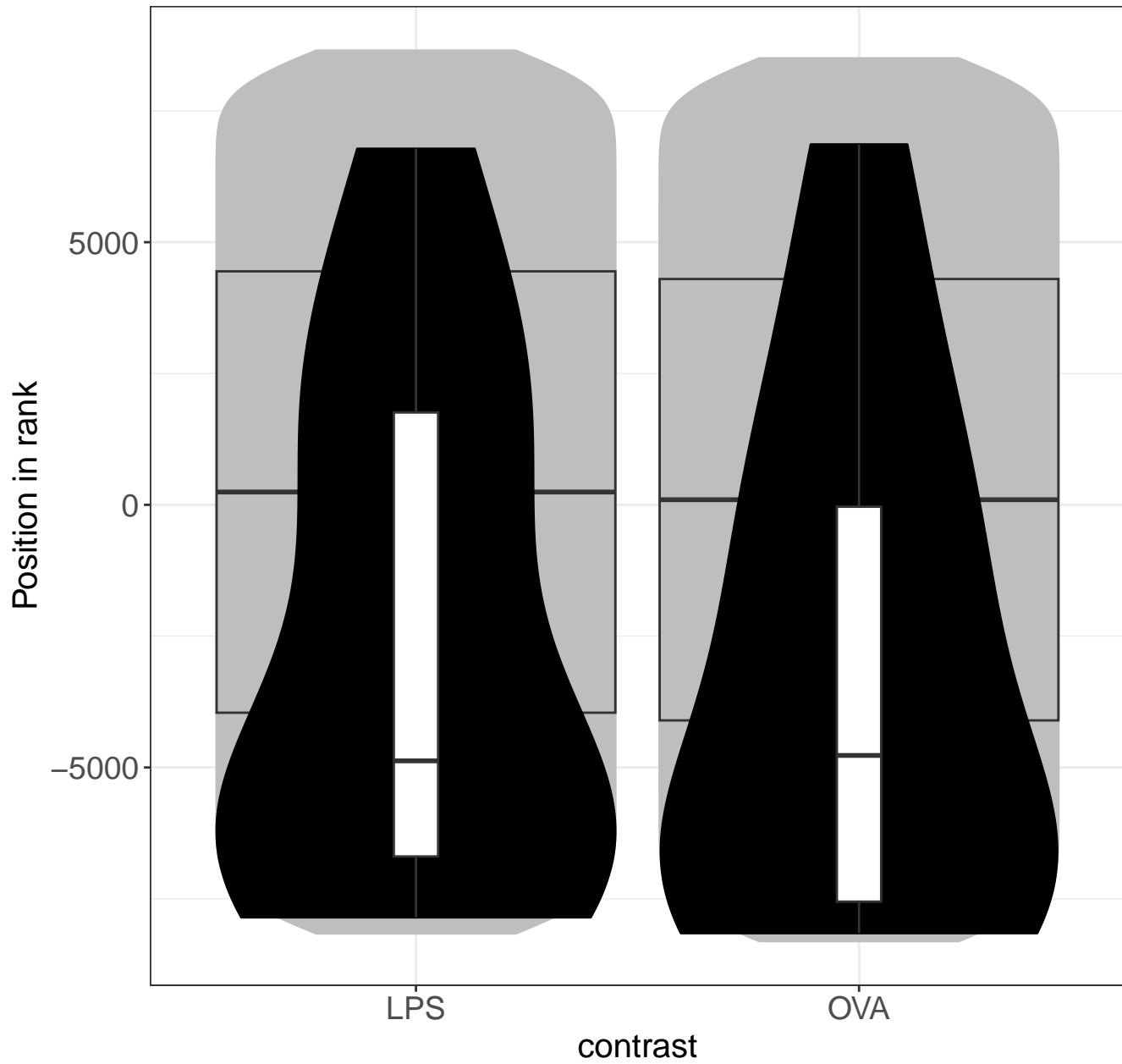
# EARLY PHASE OF HIV LIFE CYCLE



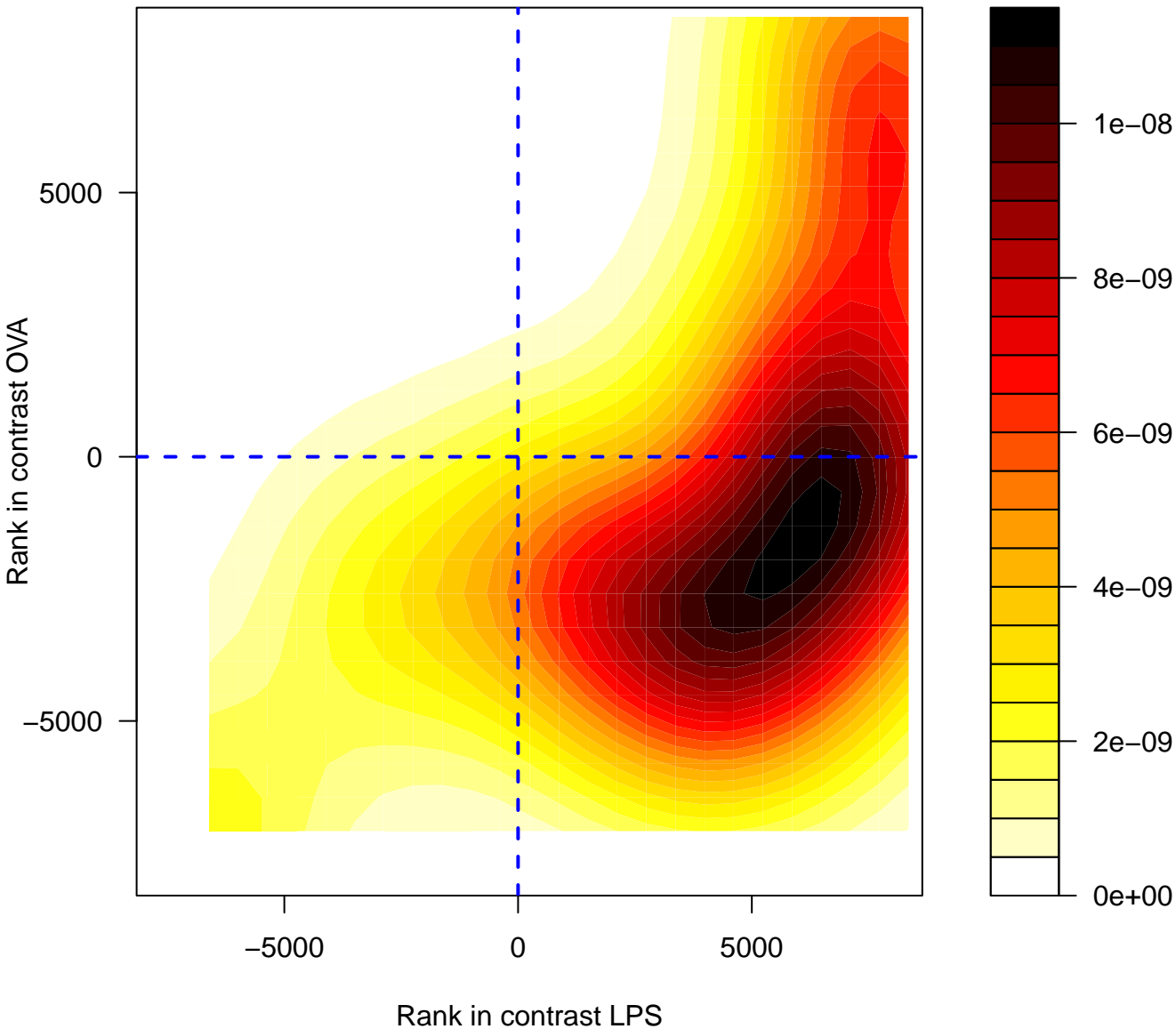
# EARLY PHASE OF HIV LIFE CYCLE



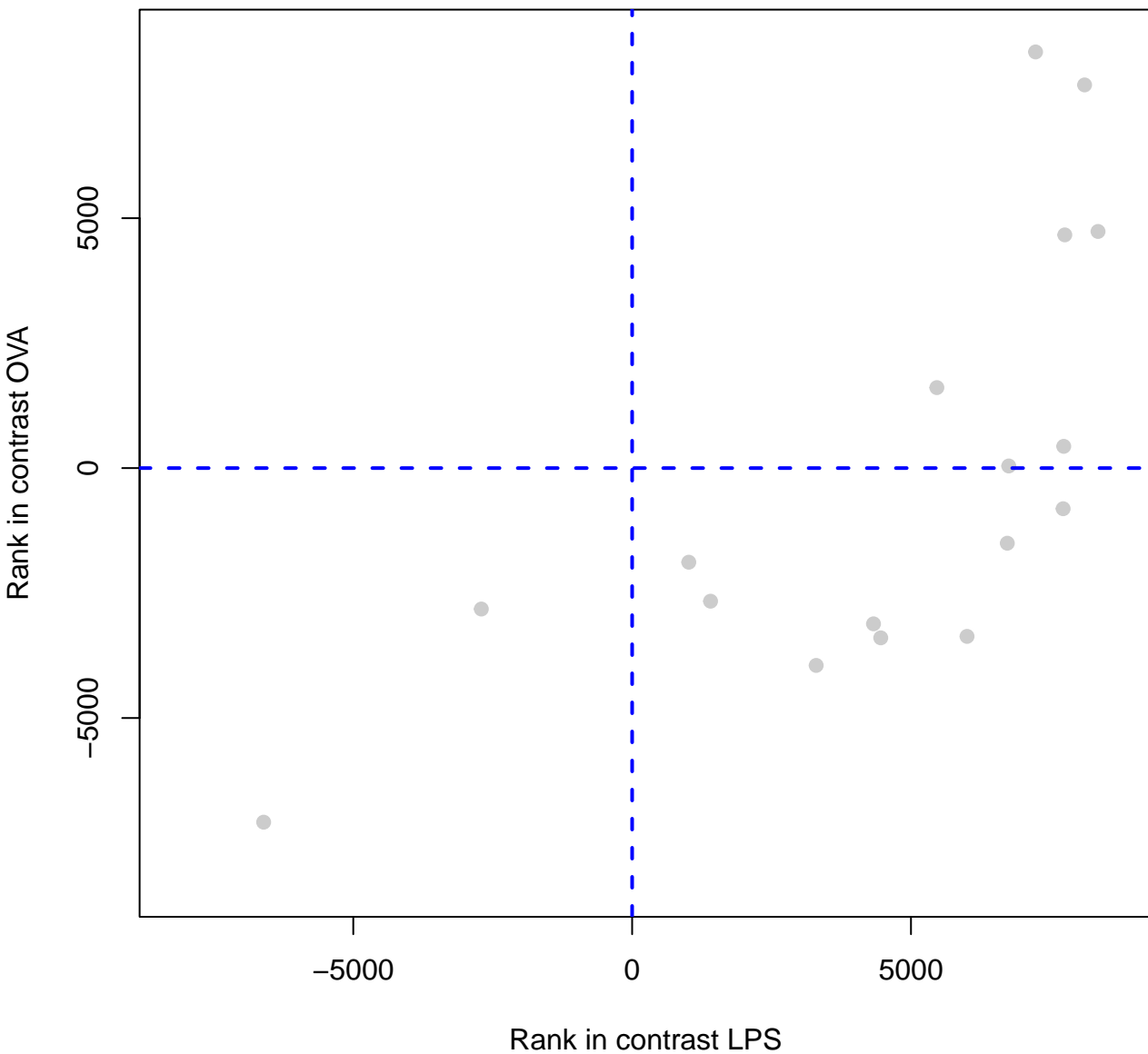
# EARLY PHASE OF HIV LIFE CYCLE



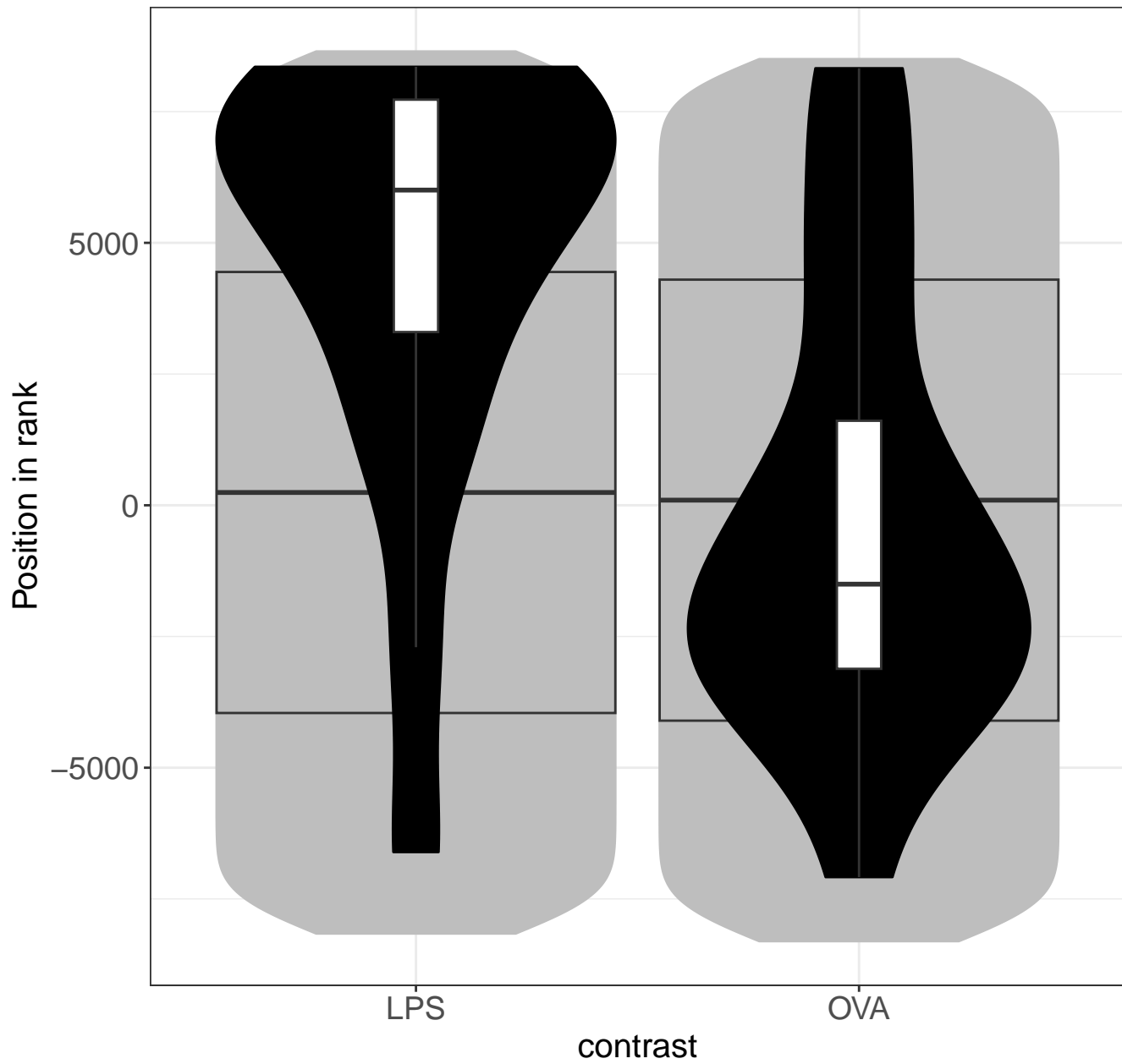
# POST CHAPERONIN TUBULIN FOLDING PATHWAY



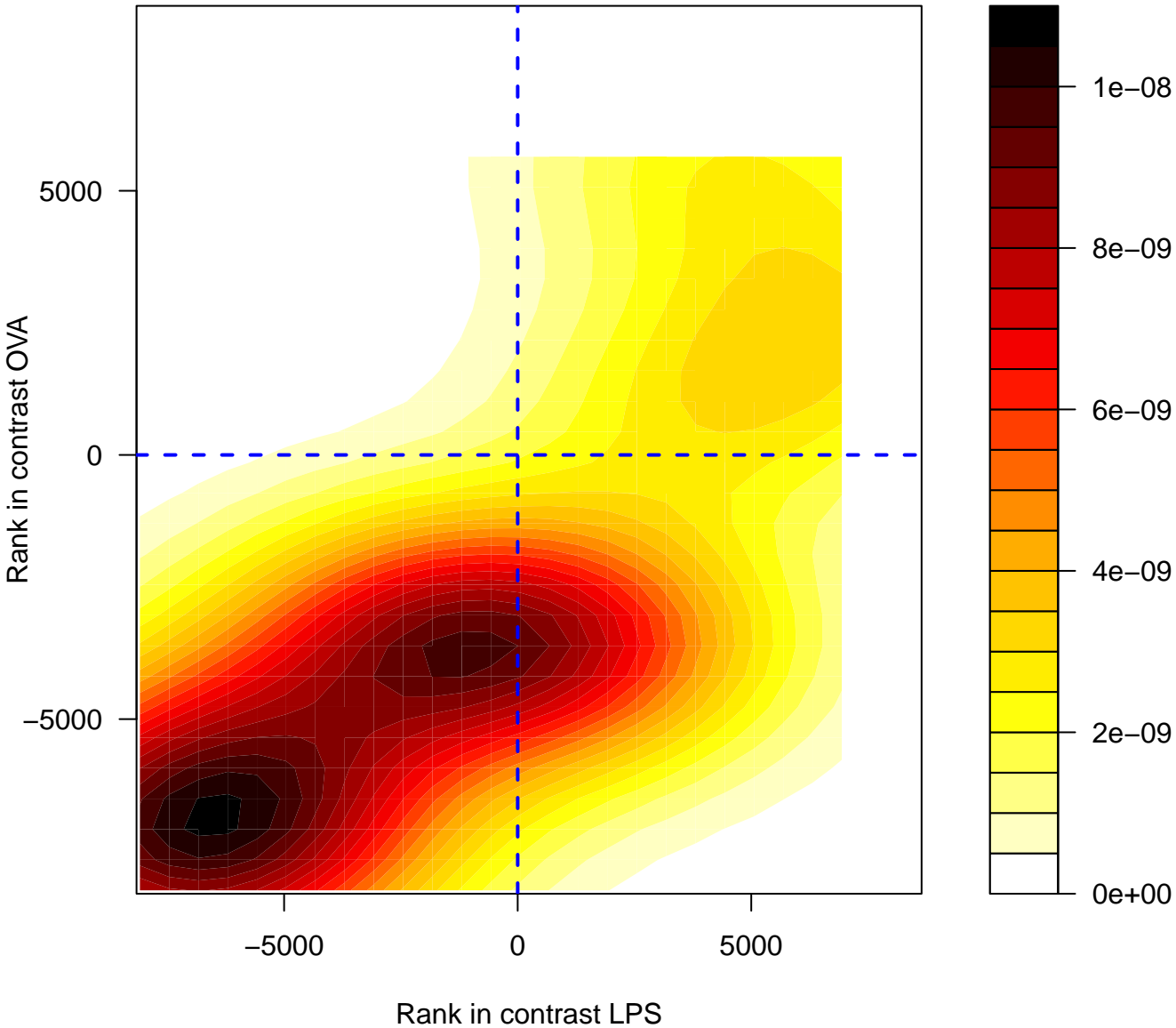
# POST CHAPERONIN TUBULIN FOLDING PATHWAY



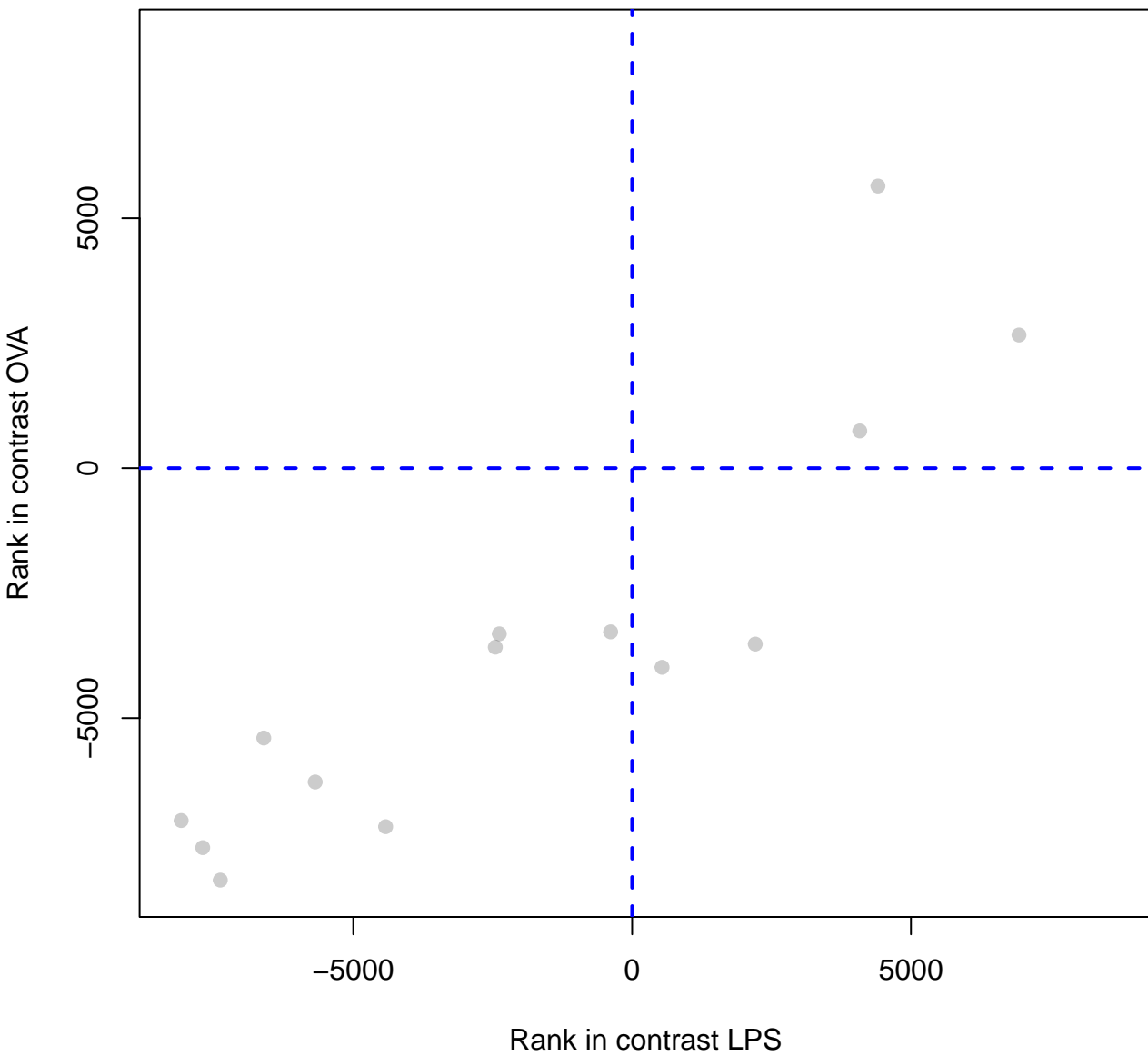
# POST CHAPERONIN TUBULIN FOLDING PATHWAY



# TRIGLYCERIDE CATABOLISM

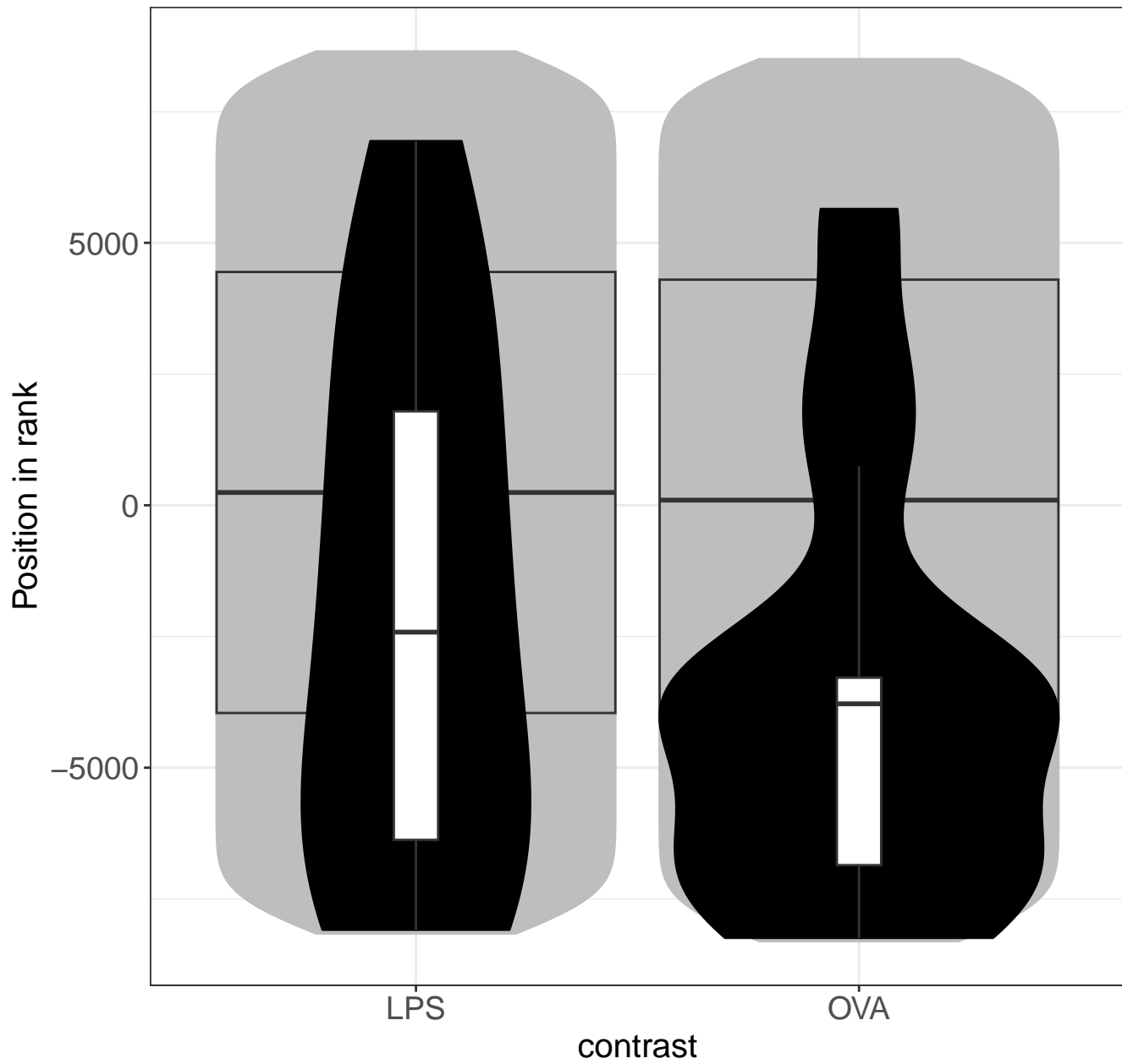


# TRIGLYCERIDE CATABOLISM

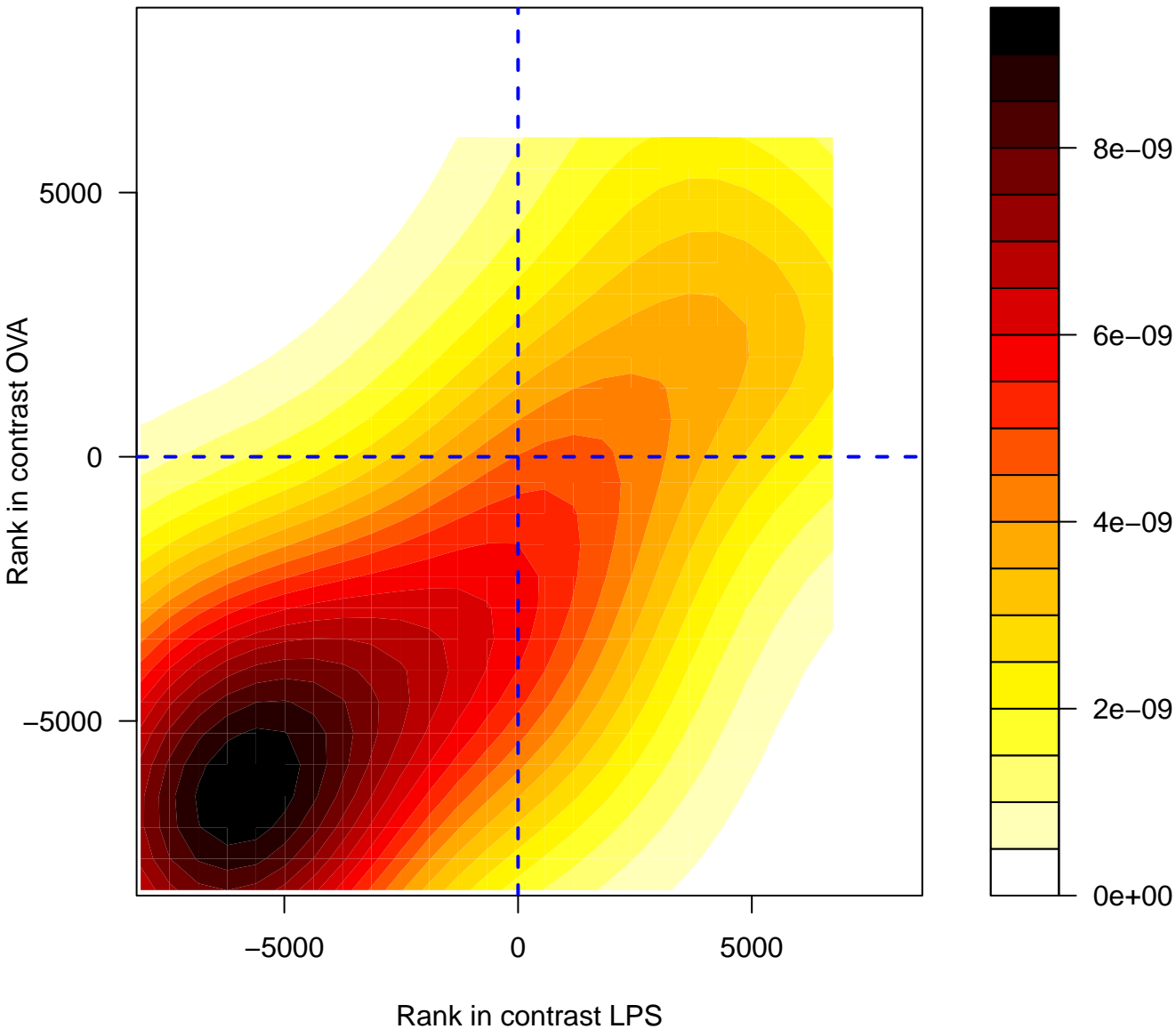




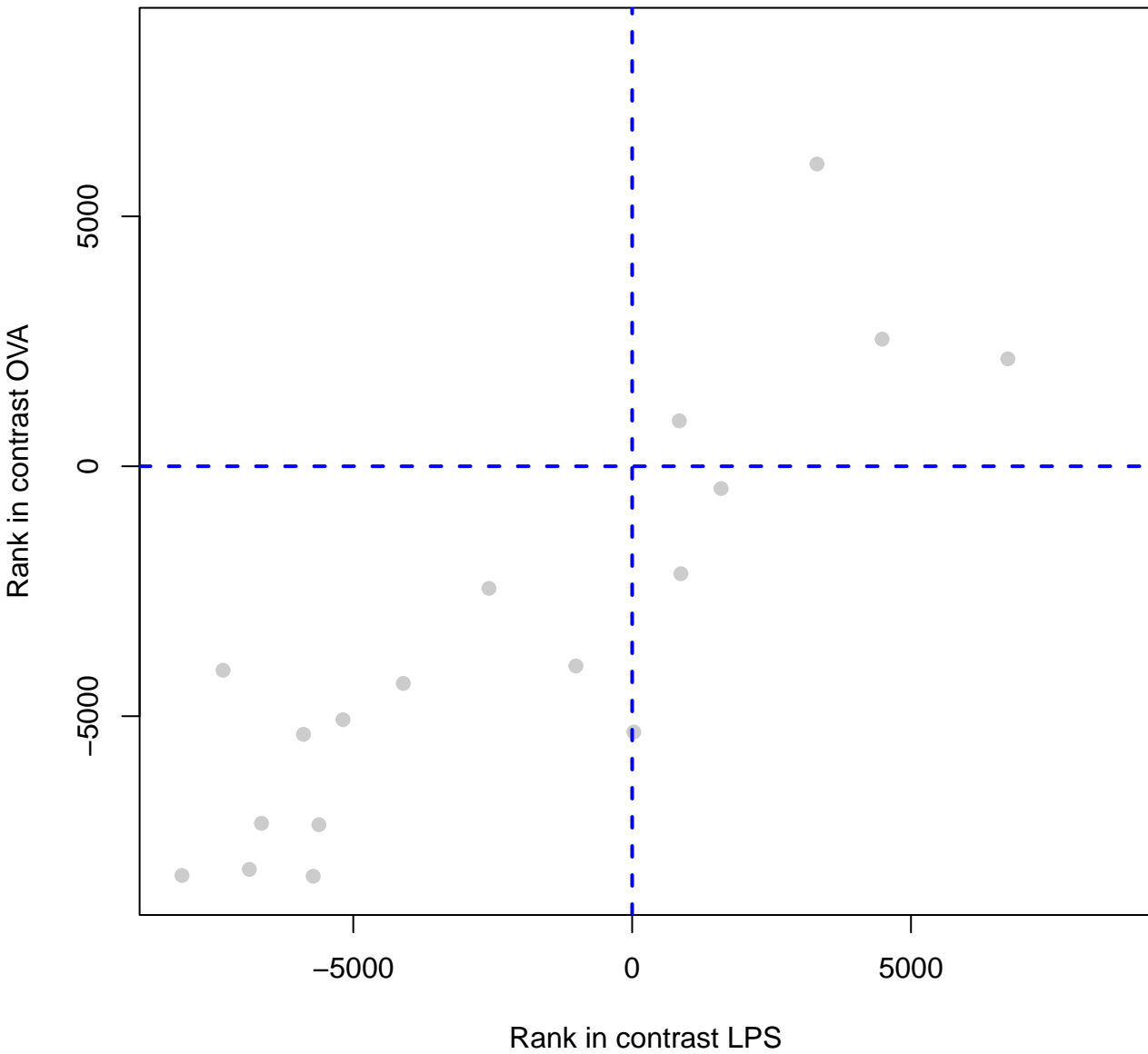
# TRIGLYCERIDE CATABOLISM



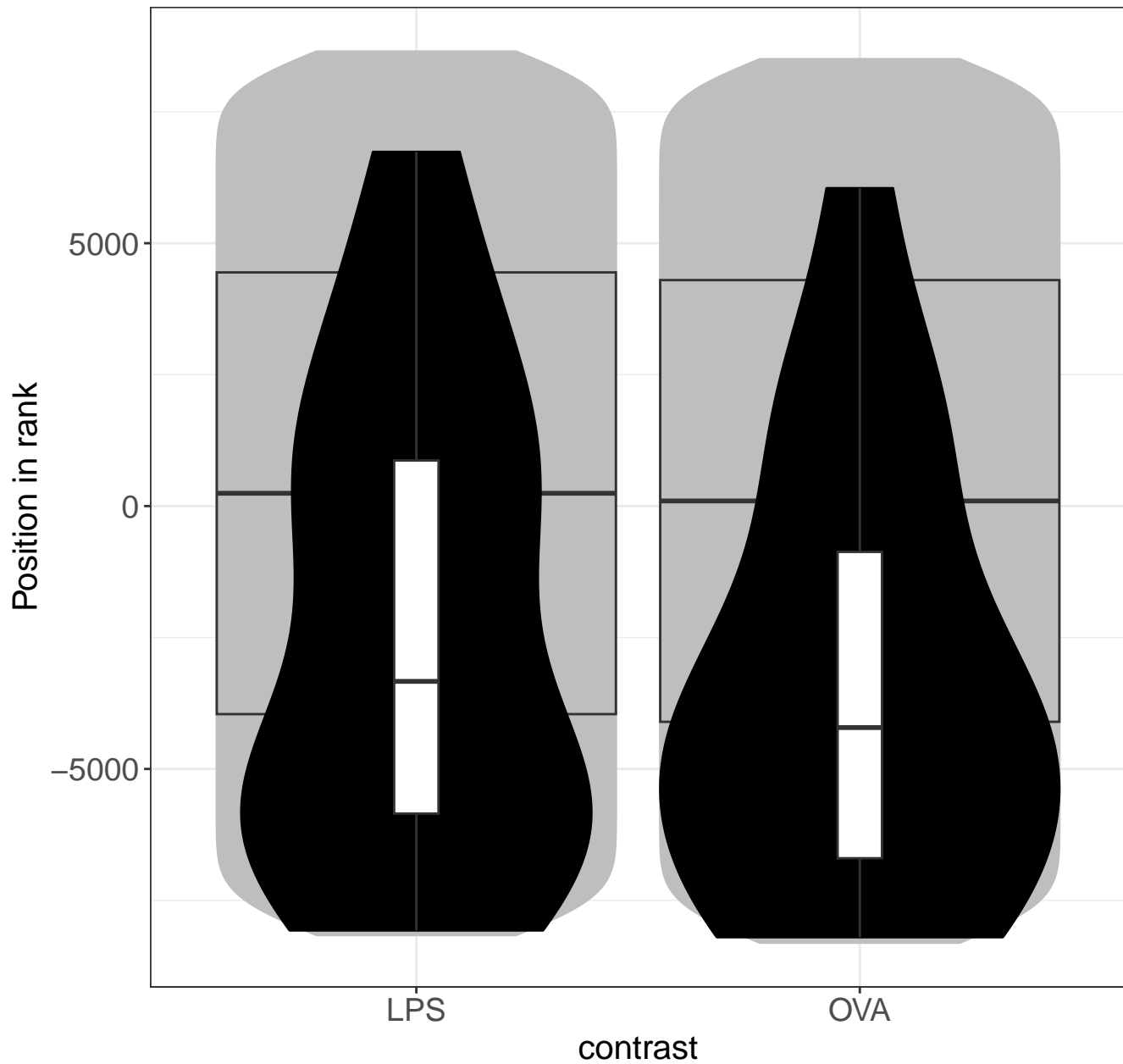
# G BETA GAMMA SIGNALLING THROUGH CDC42



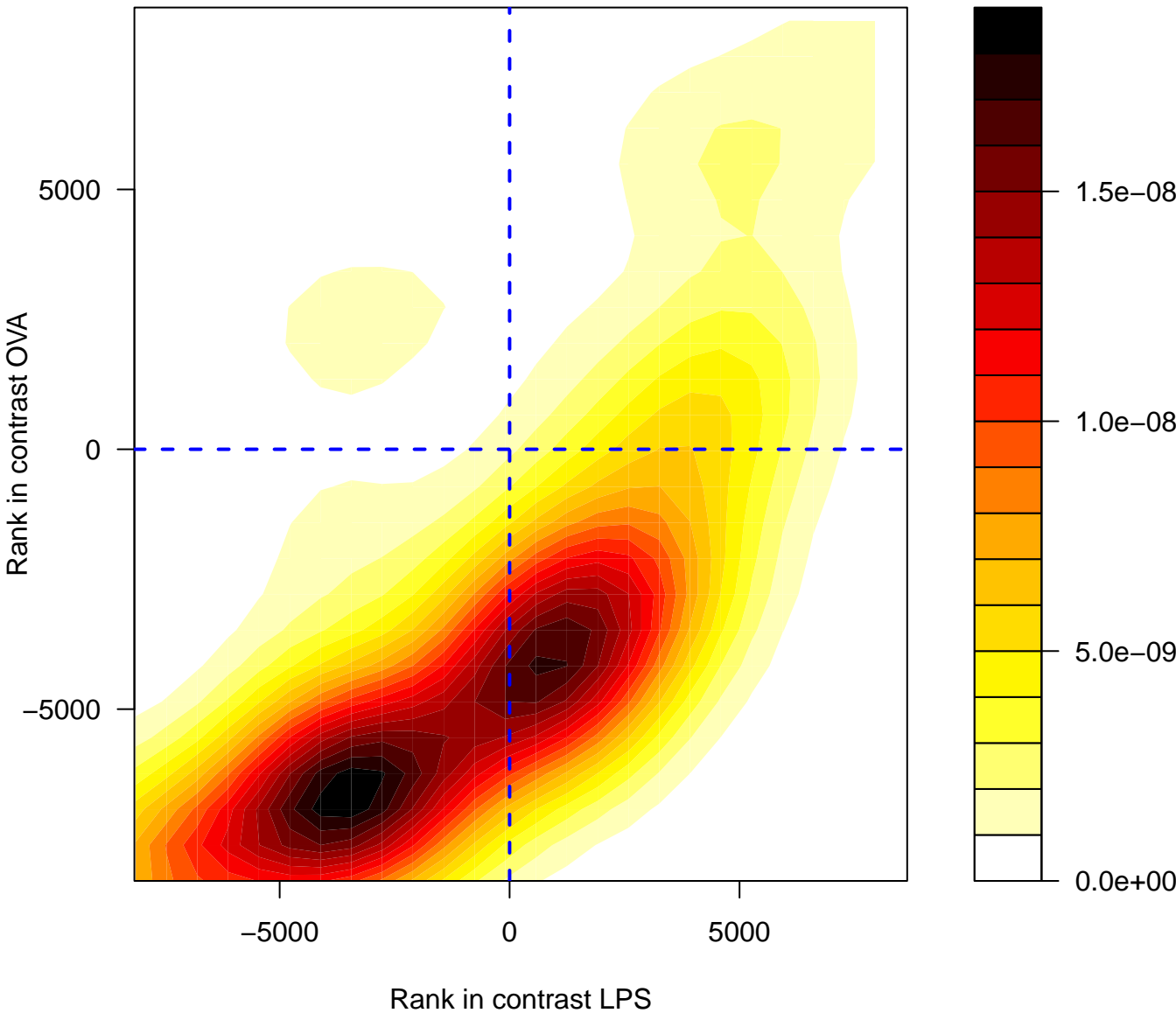
# G BETA GAMMA SIGNALLING THROUGH CDC42



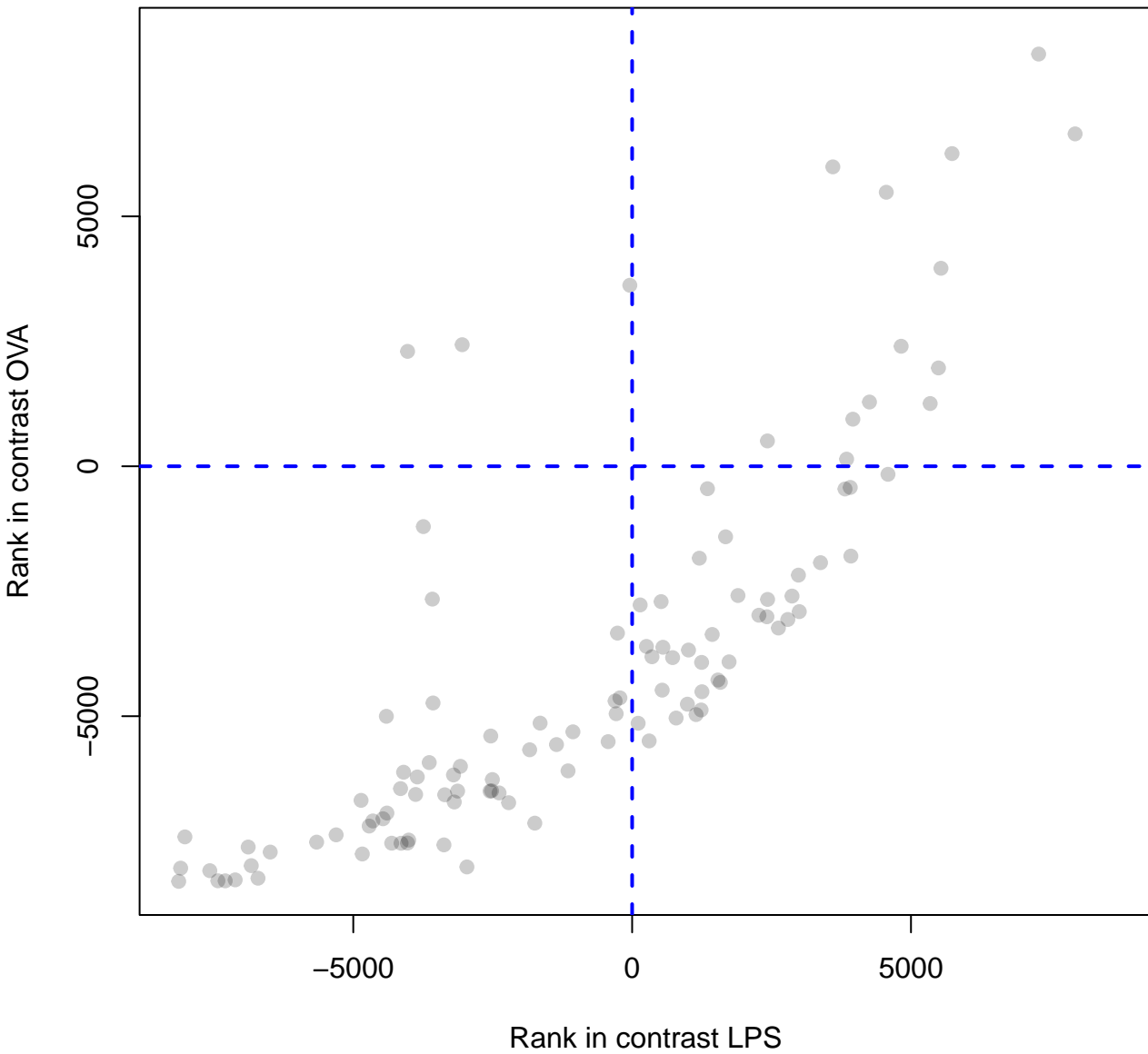
# G BETA GAMMA SIGNALLING THROUGH CDC4



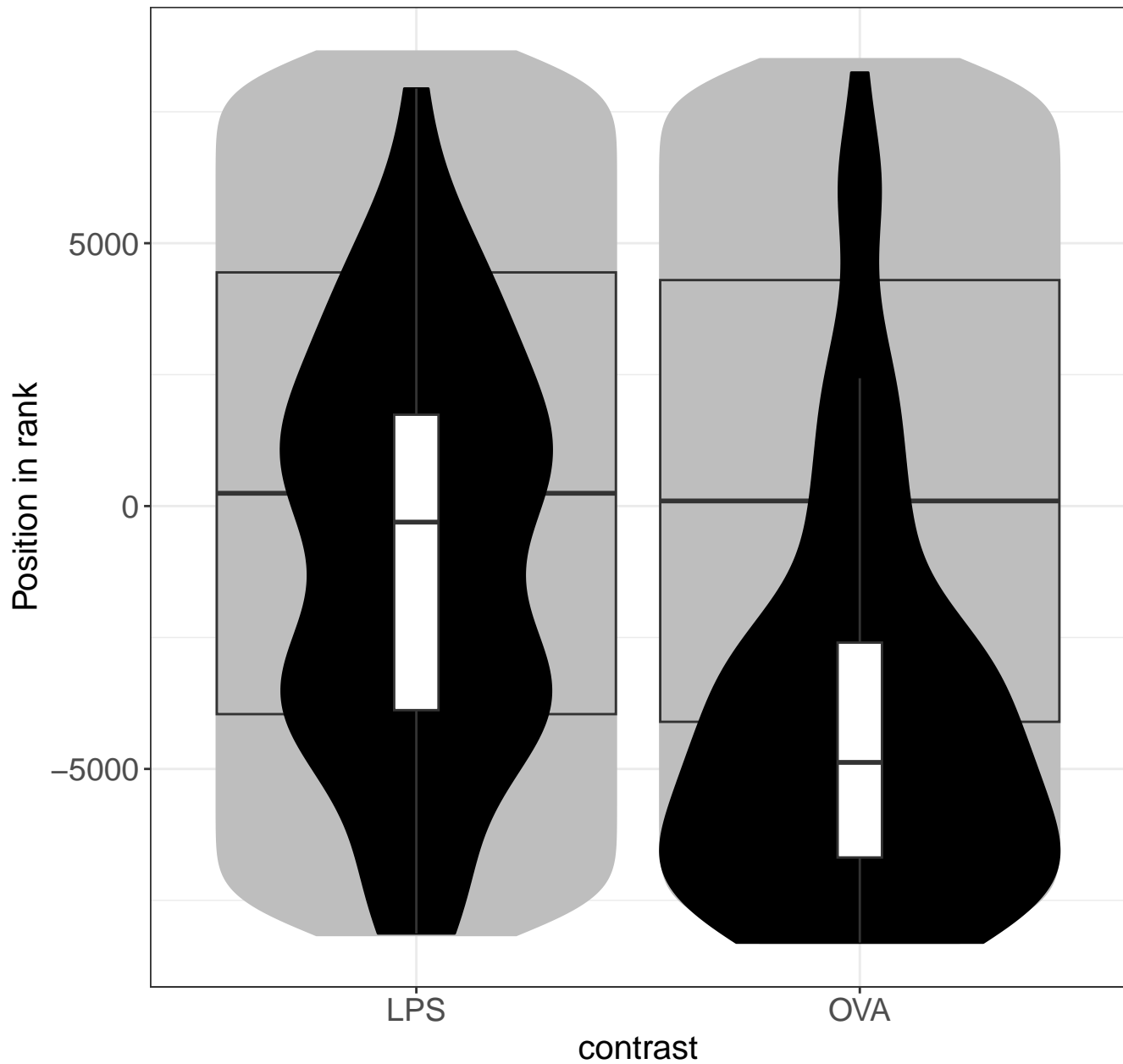
# SELENOAMINO ACID METABOLISM



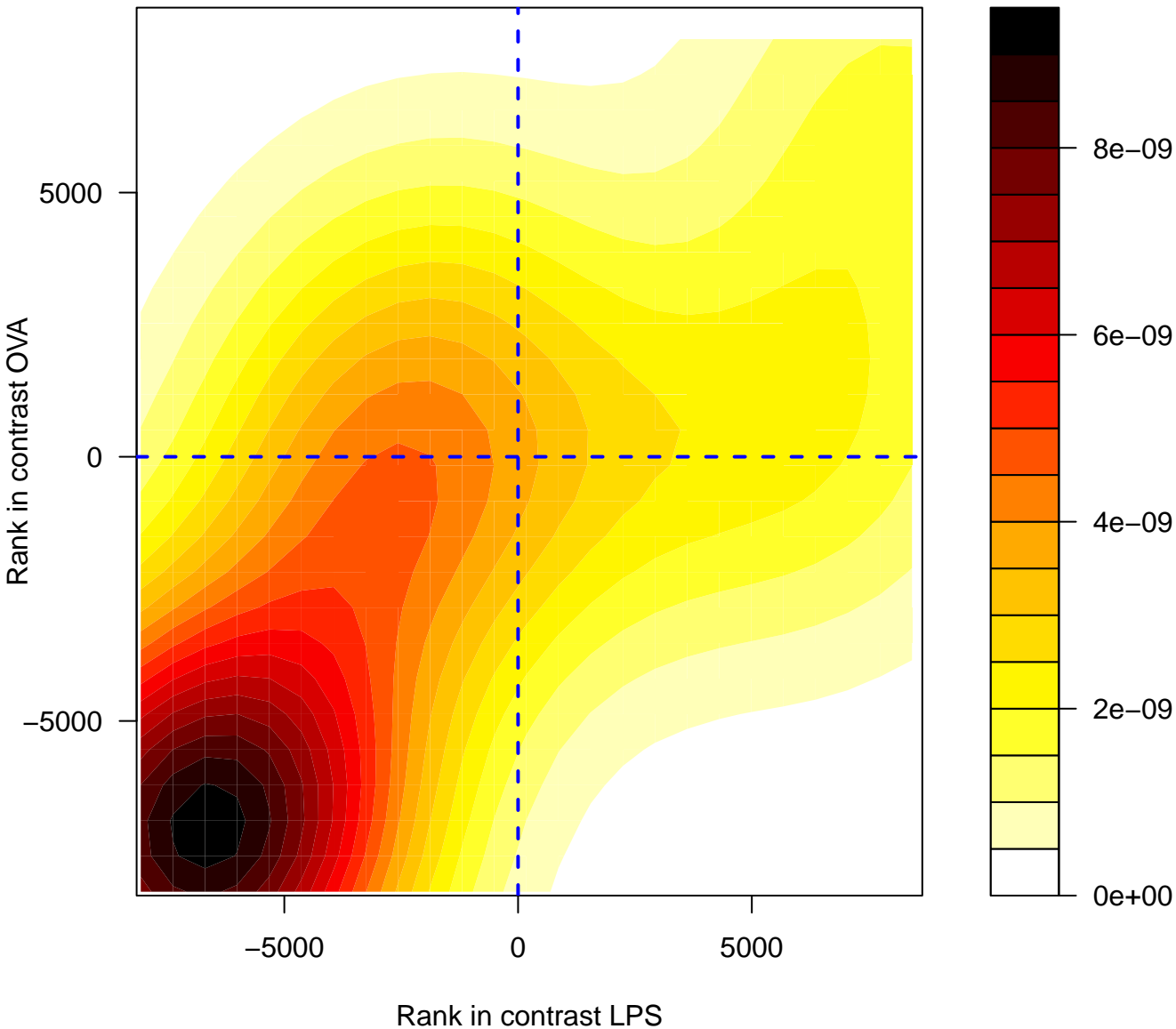
# SELENOAMINO ACID METABOLISM



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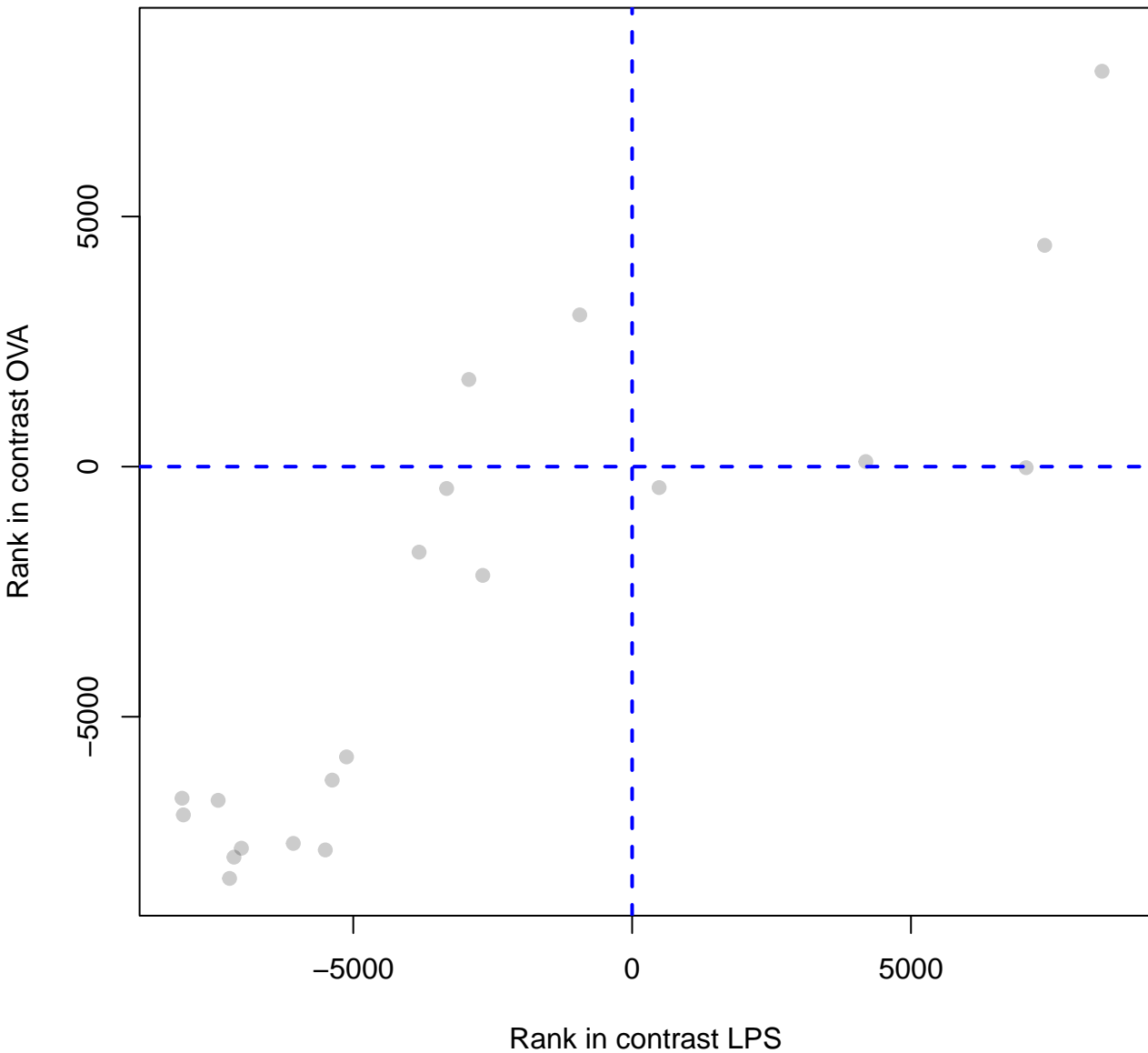


# SYNTHESIS OF VERY LONG CHAIN FATTY ACYL COAS

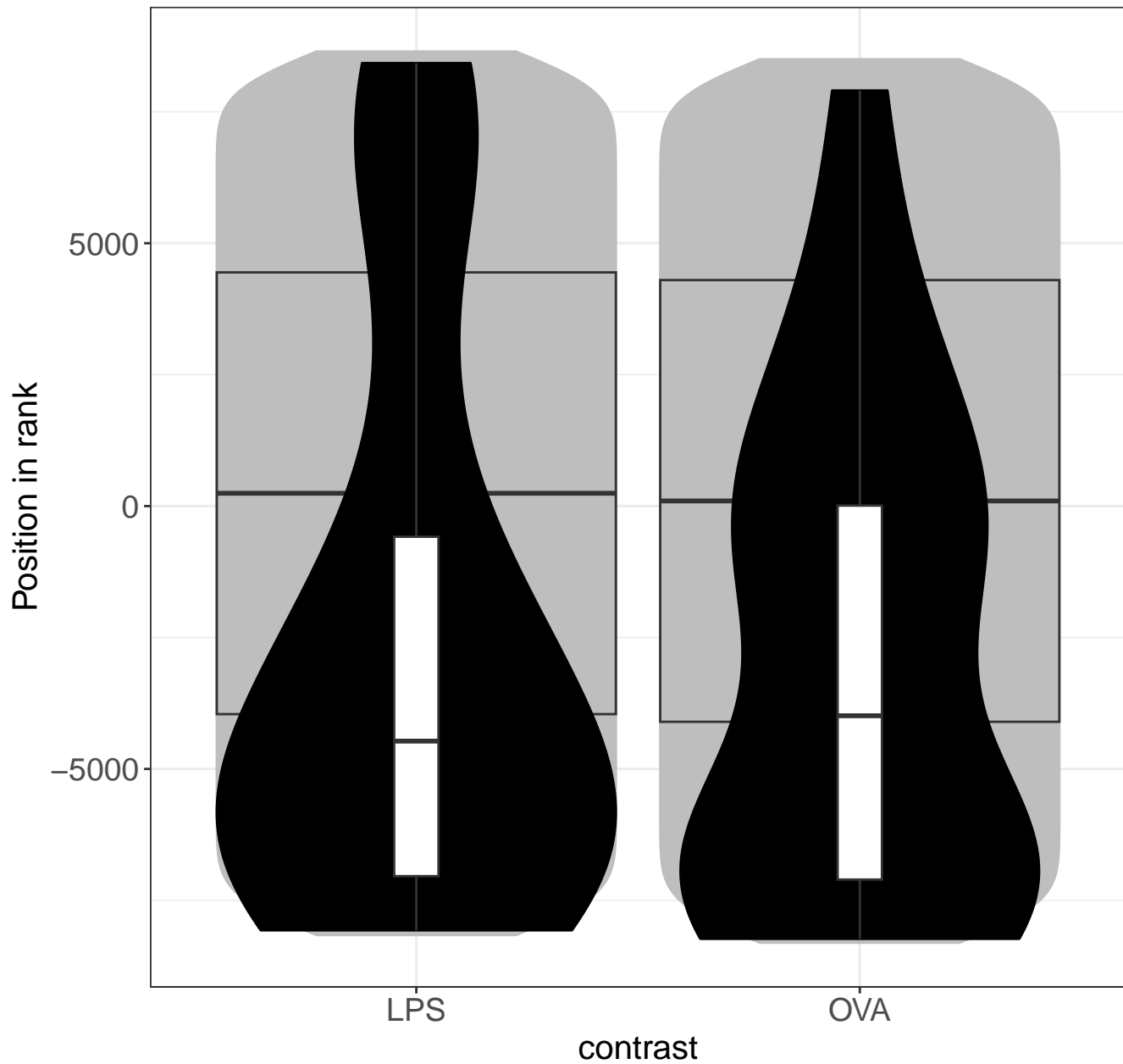




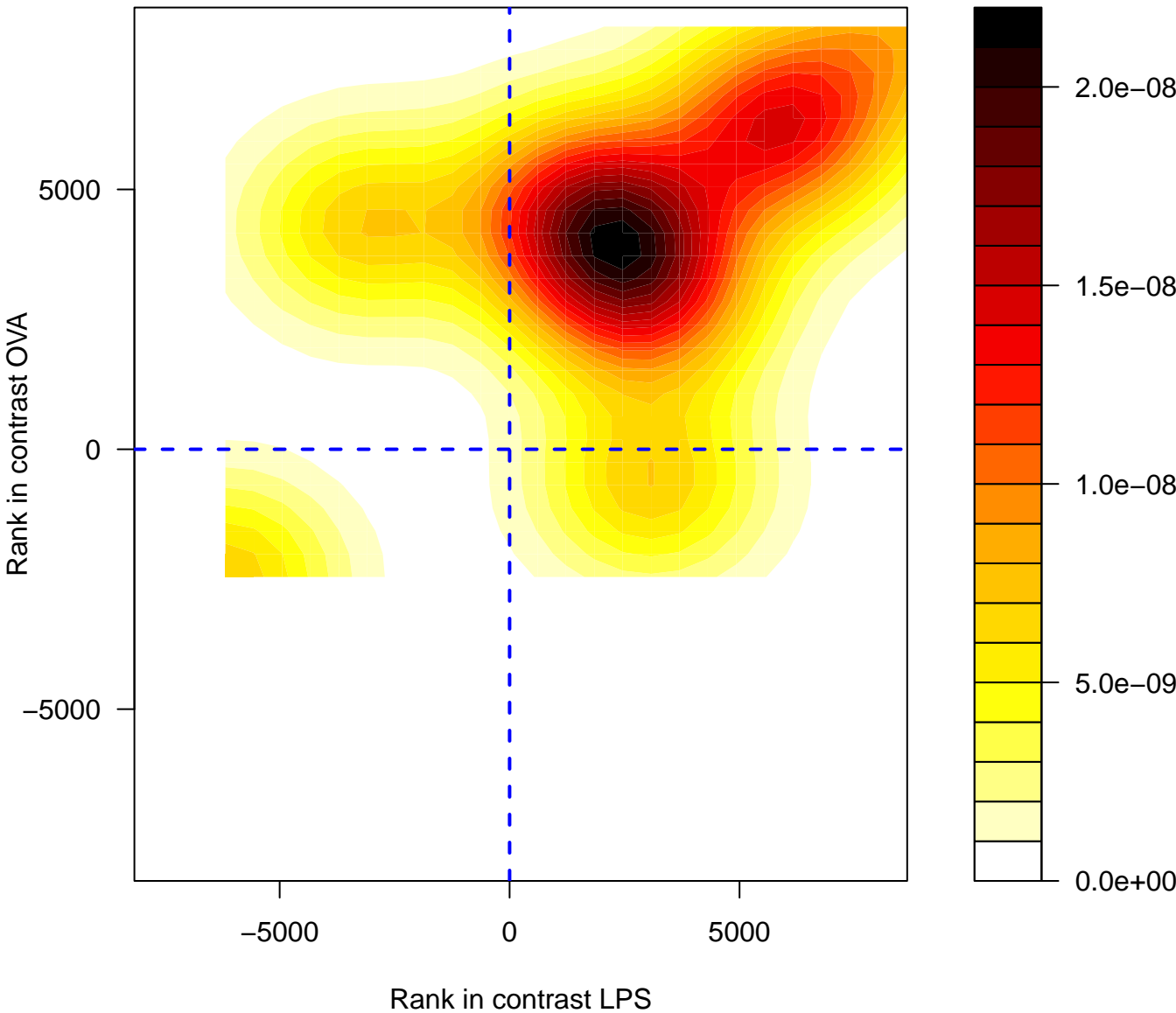
# SYNTHESIS OF VERY LONG CHAIN FATTY ACYL COAS



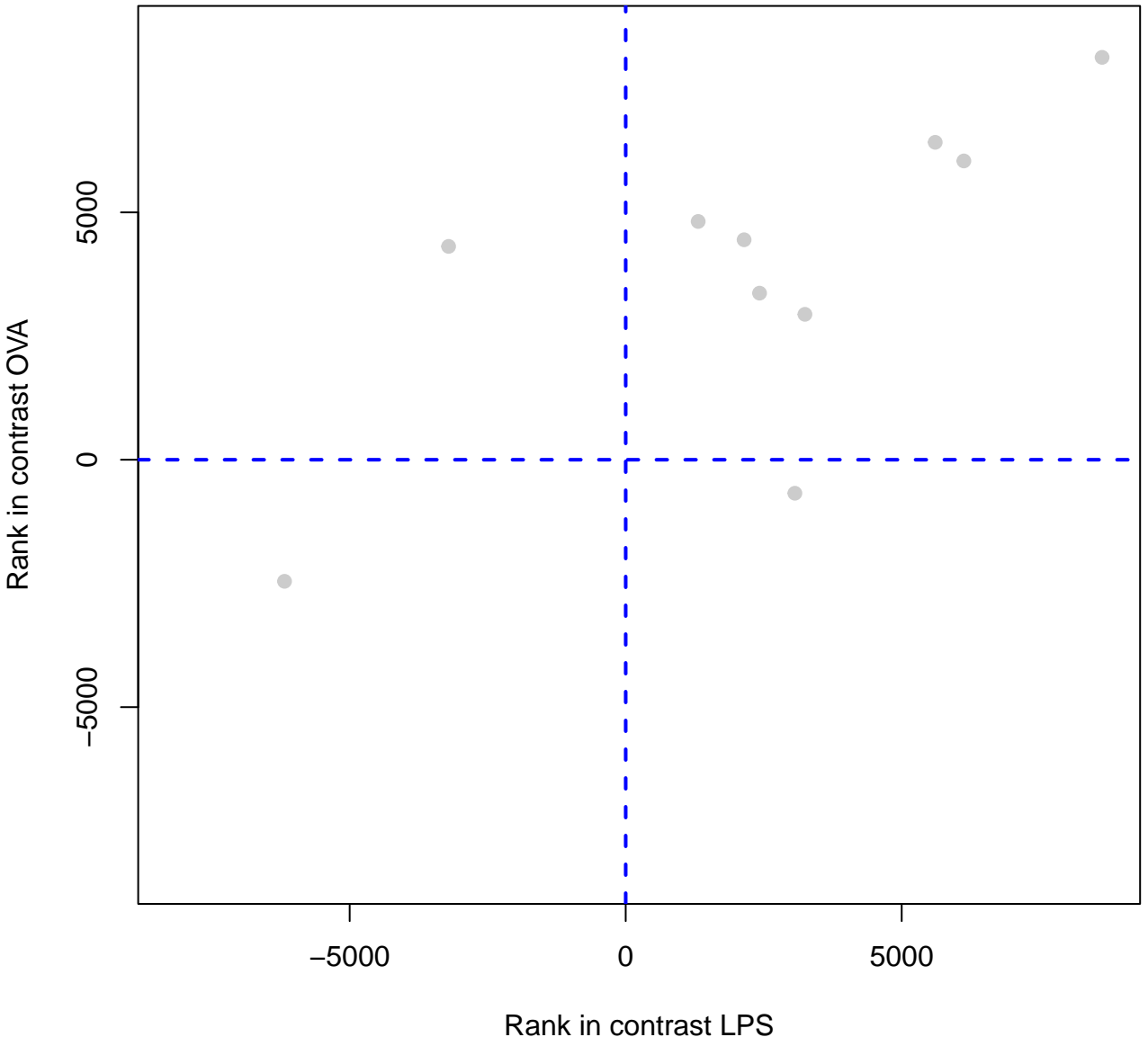
# SYNTHESIS OF VERY LONG CHAIN FATTY ACY



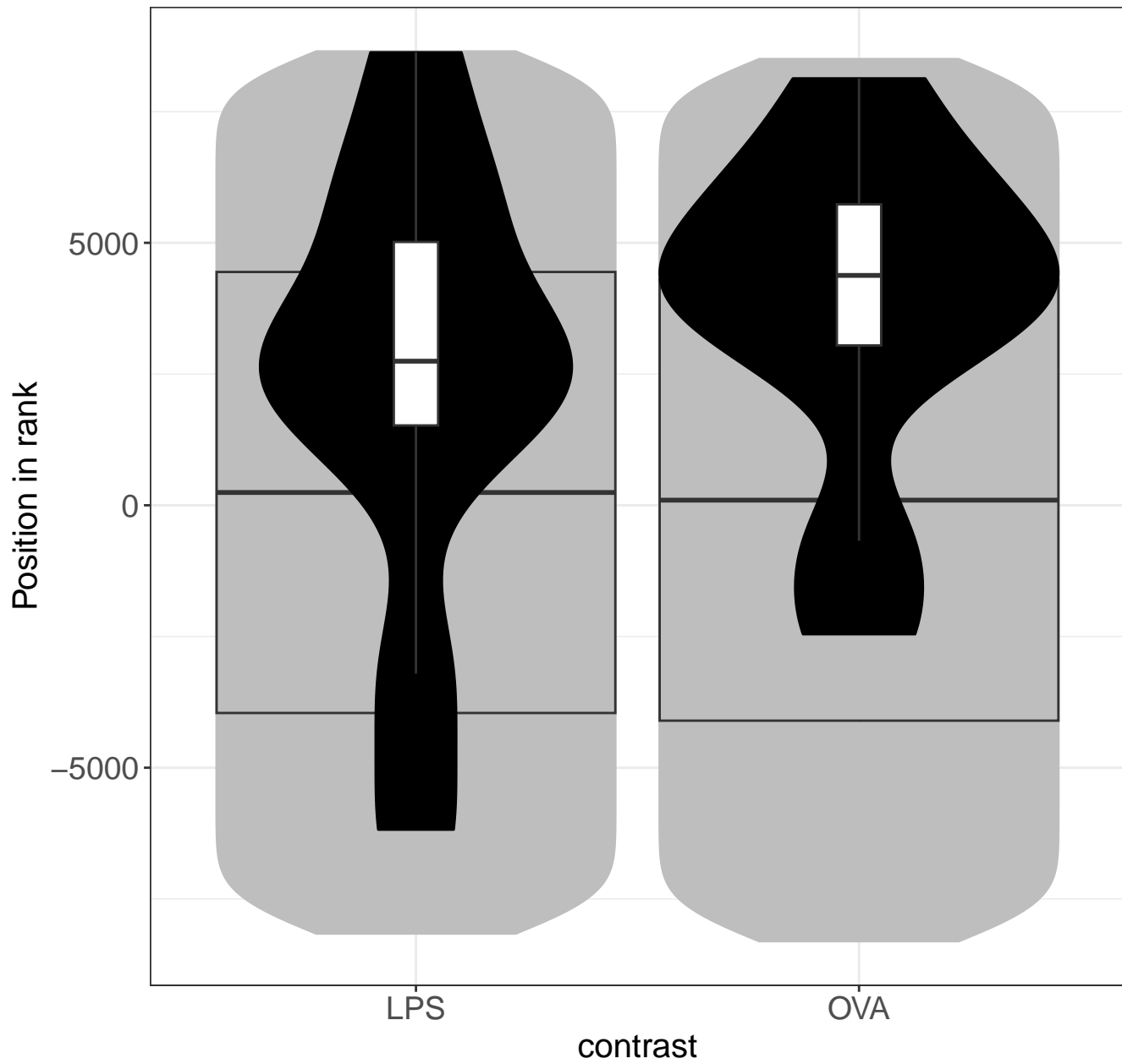
# SIGNALING BY LEPTIN



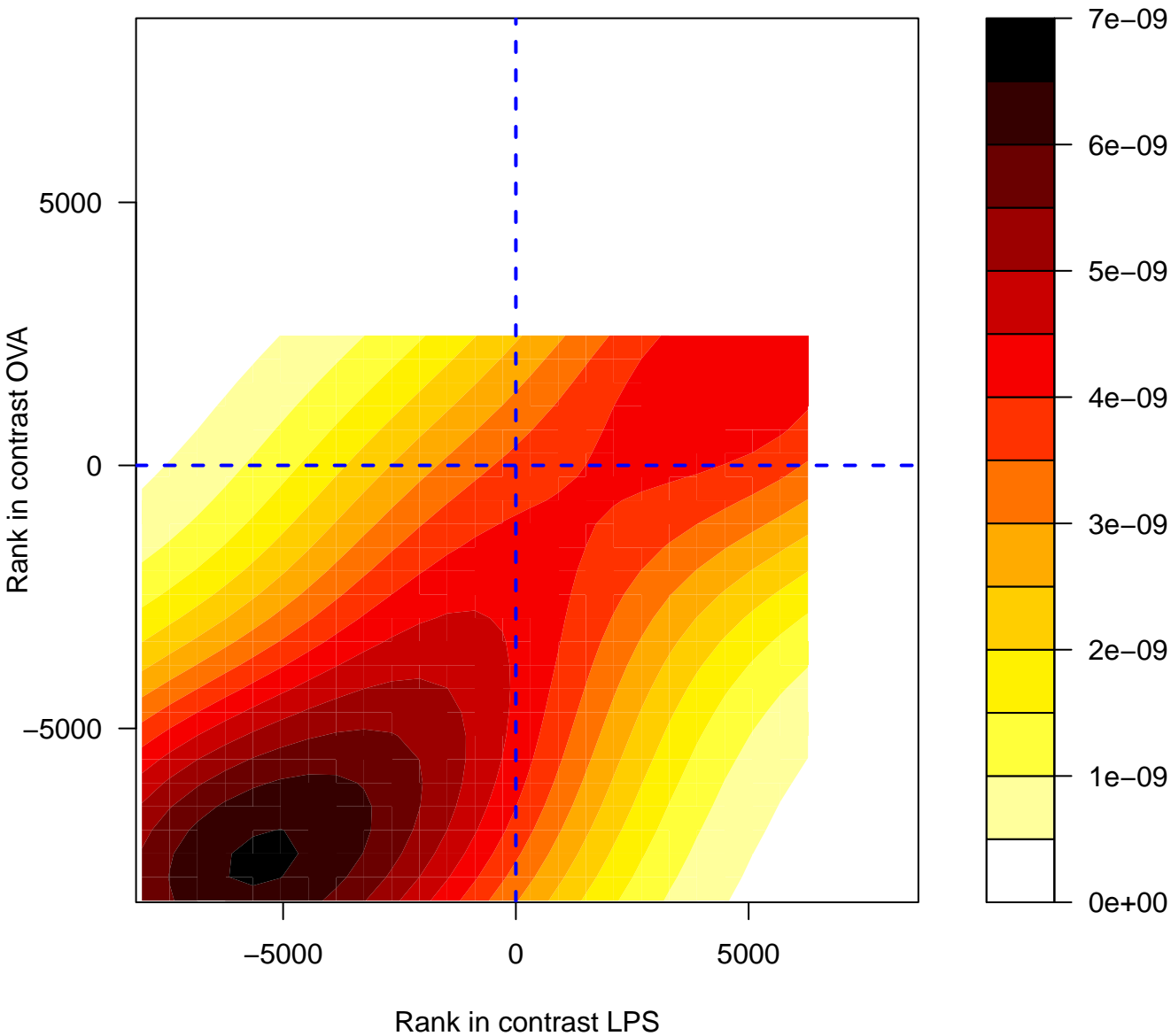
# SIGNALING BY LEPTIN



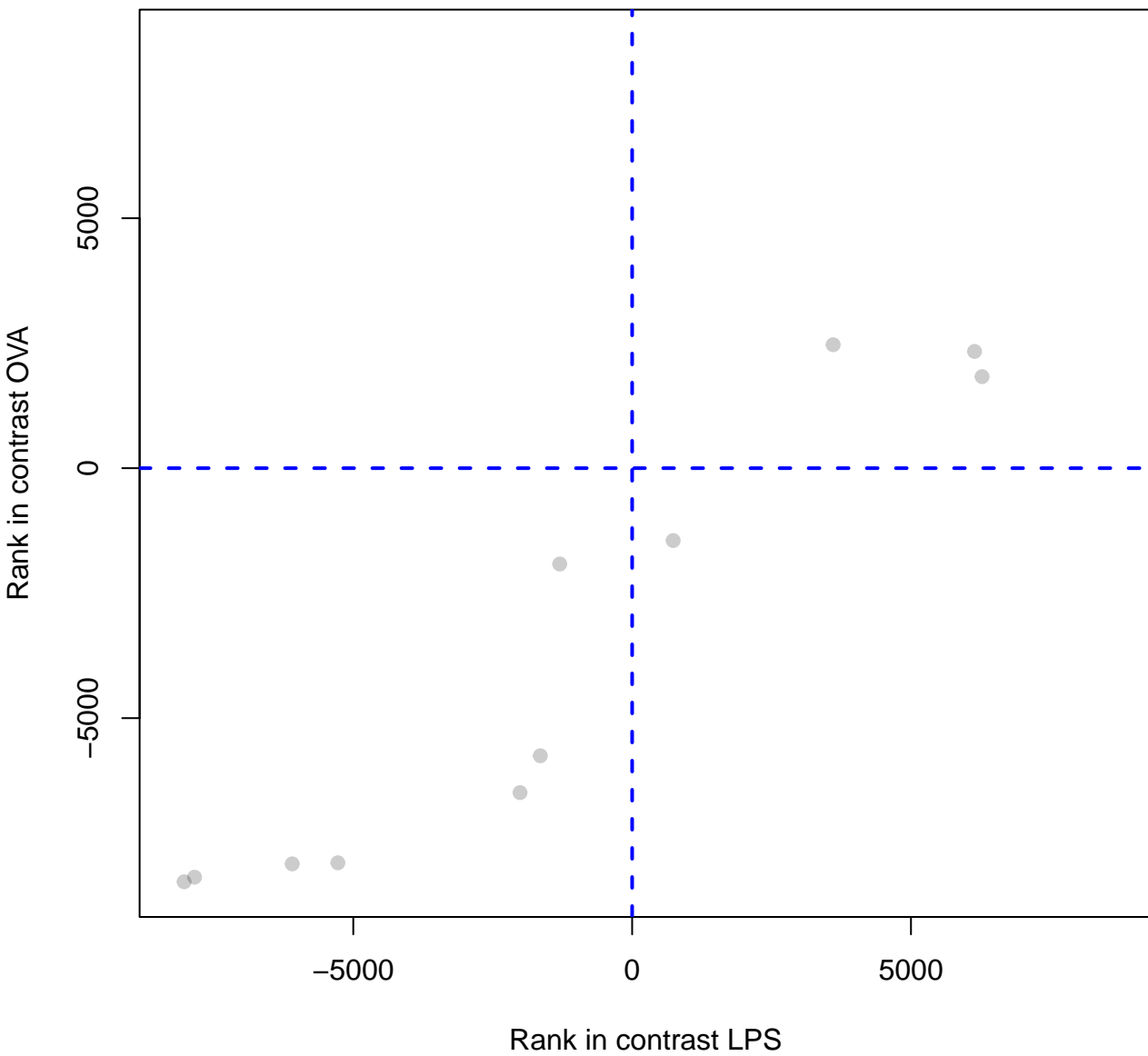
# SIGNALING BY LEPTIN



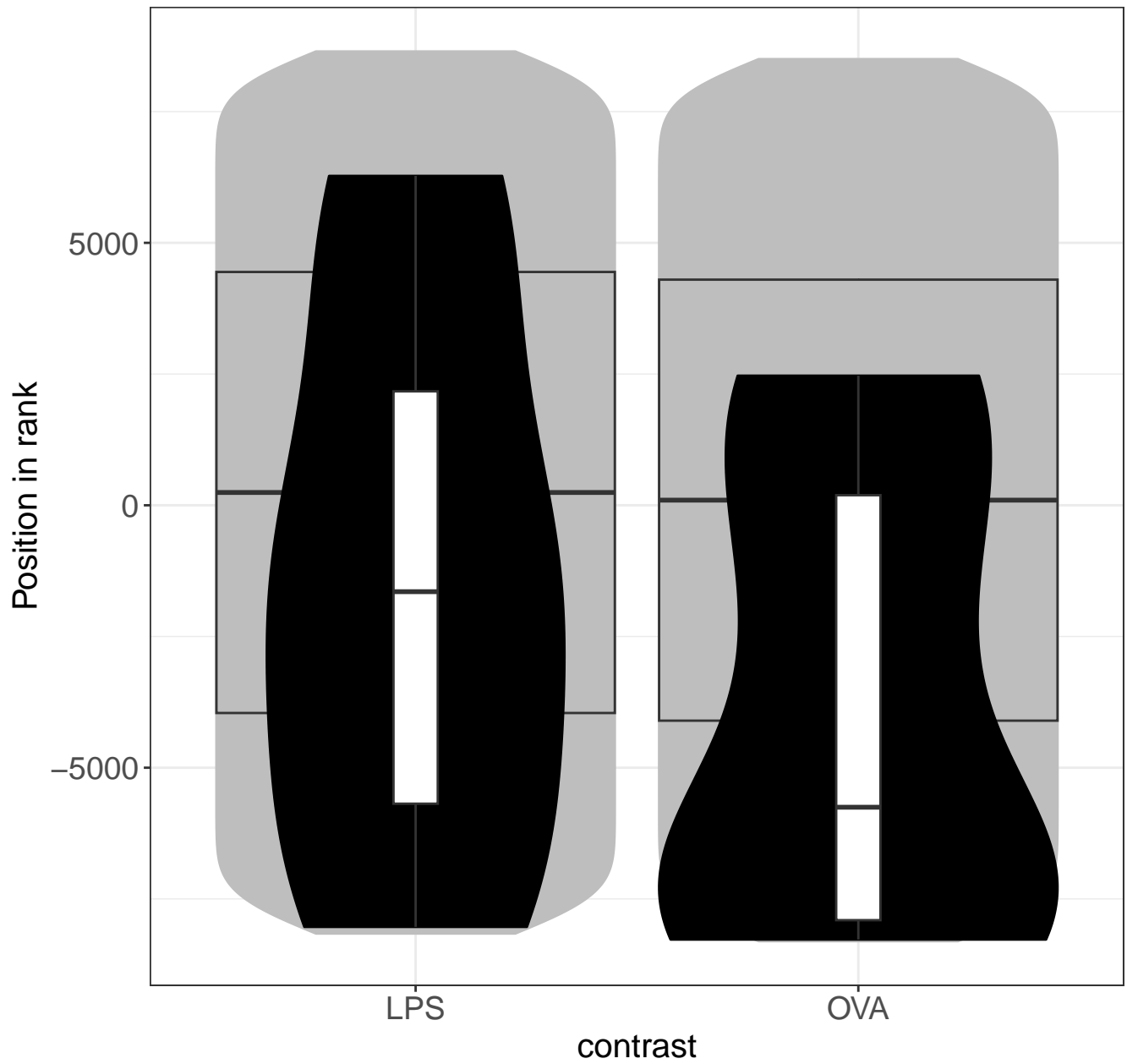
# TRAFFICKING AND PROCESSING OF ENDOSOMAL TLI



# TRAFFICKING AND PROCESSING OF ENDOSOMAL TLR

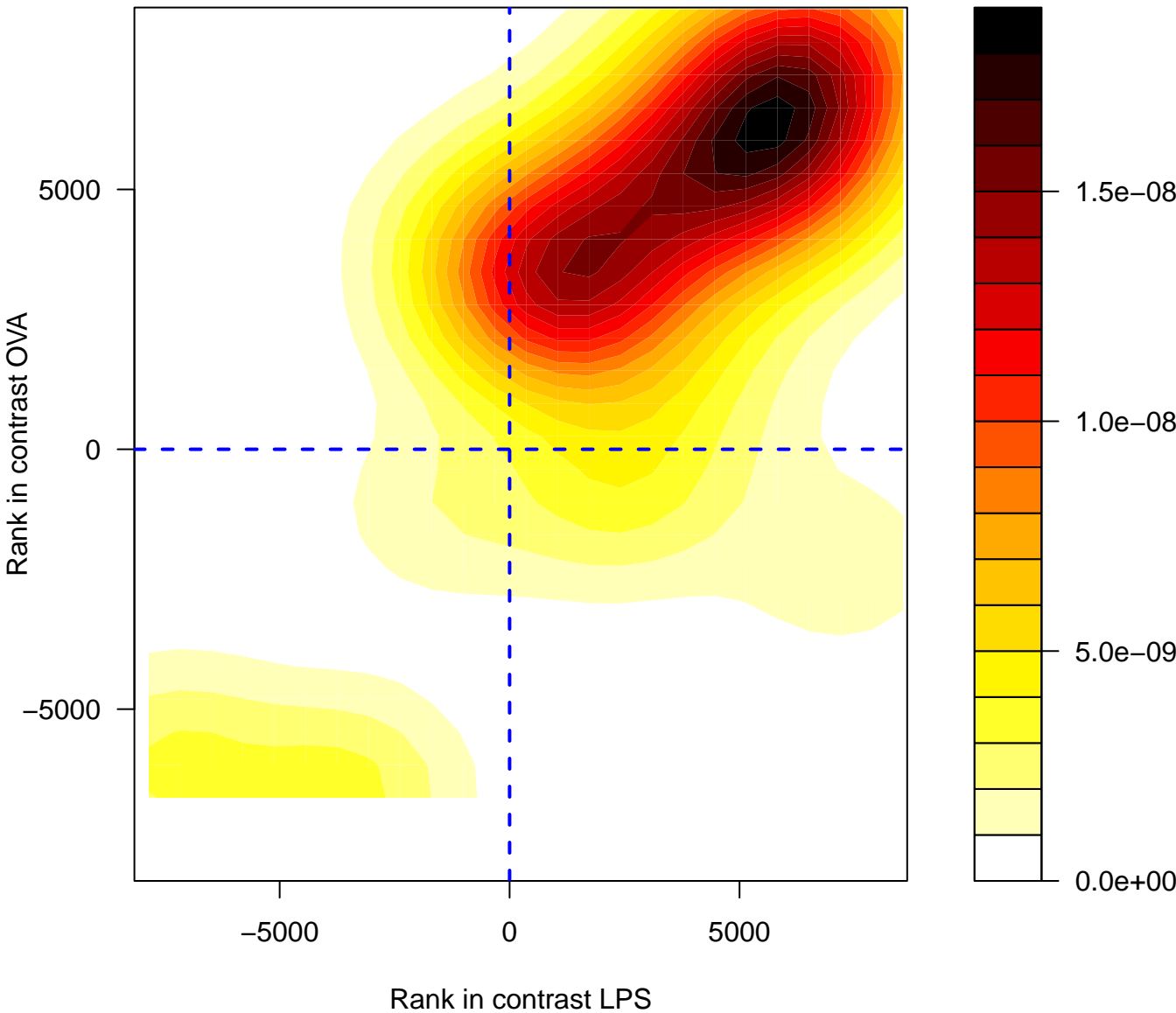


# TRAFFICKING AND PROCESSING OF ENDOSC

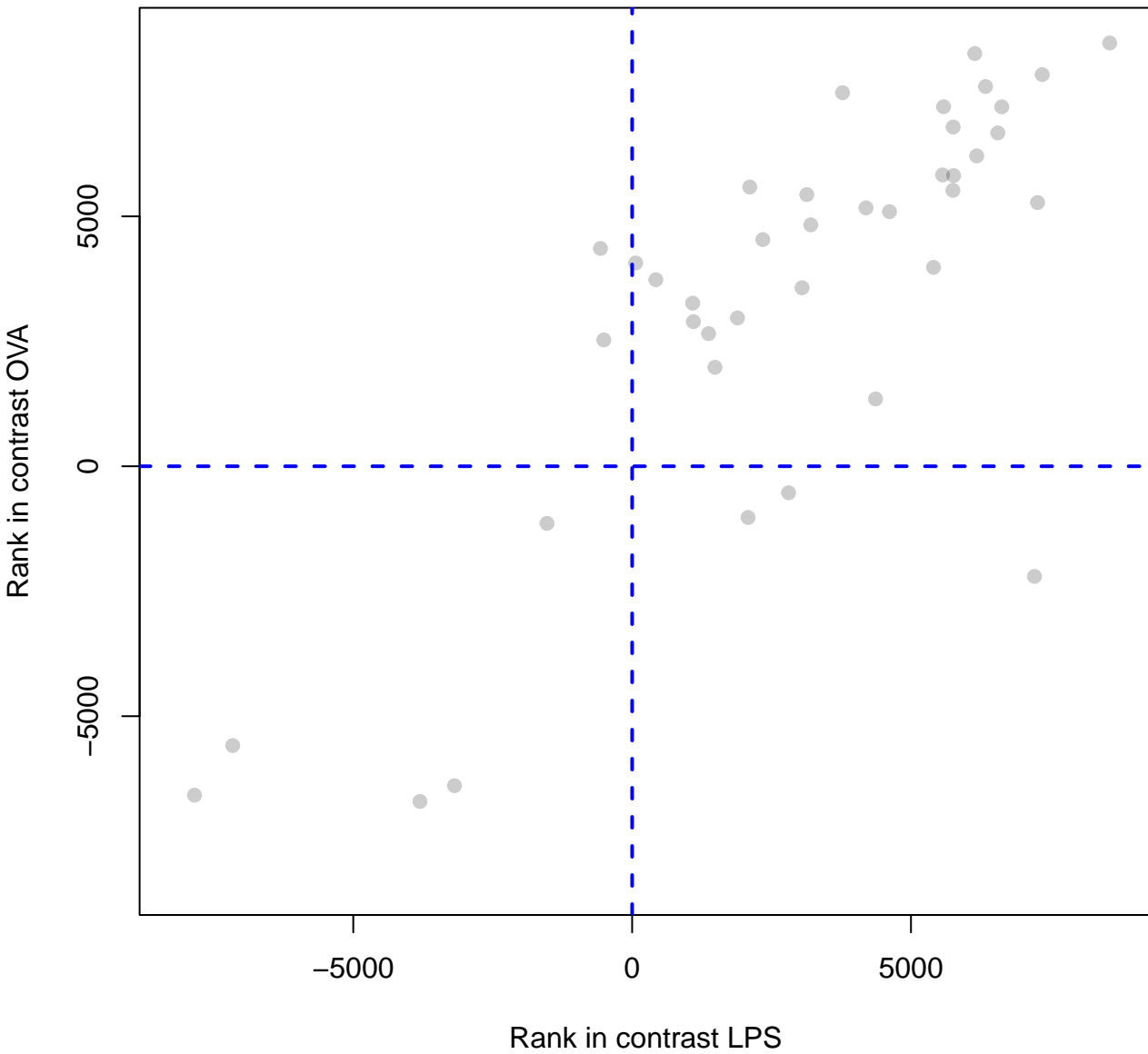




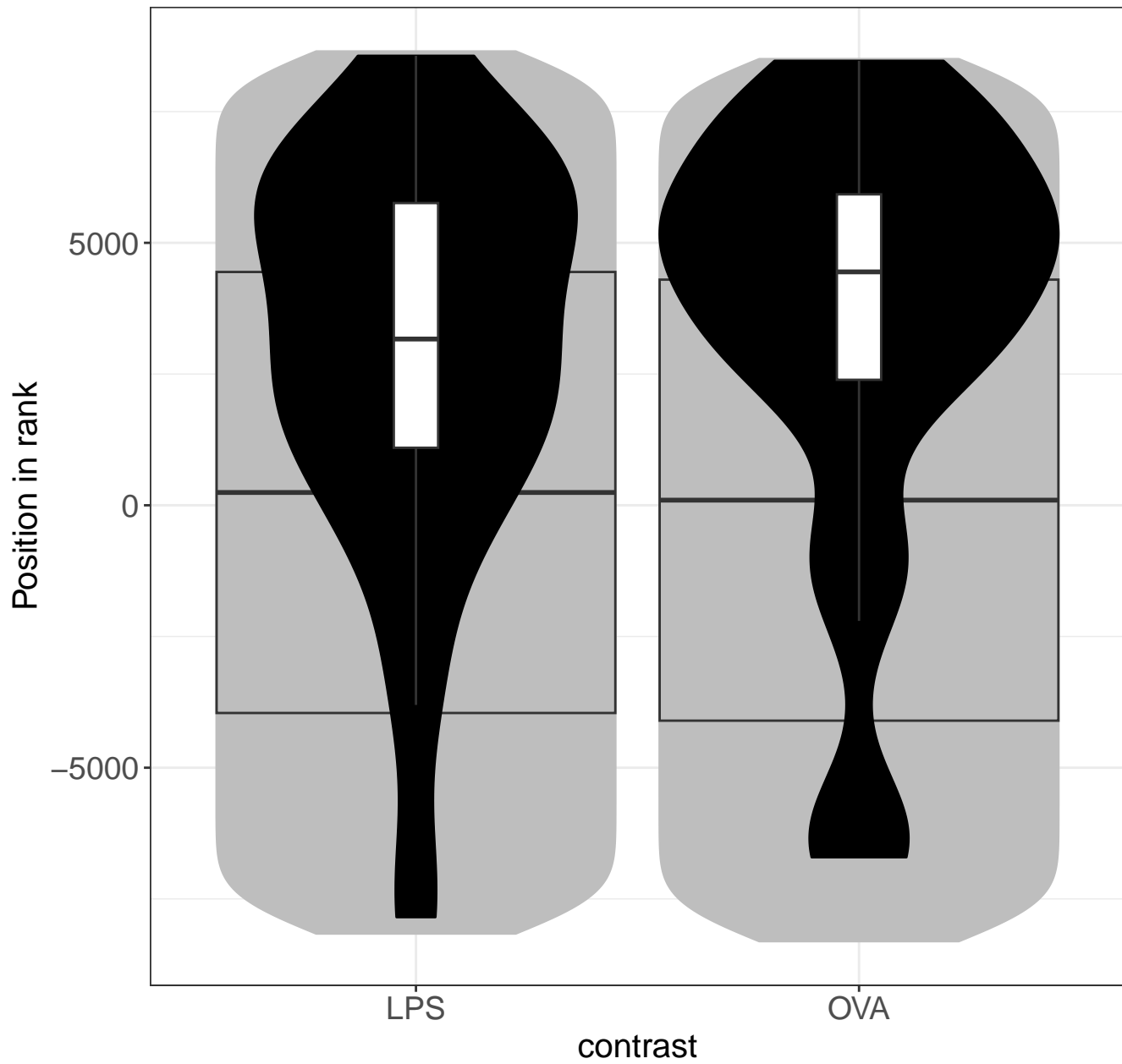
# NCAM1 INTERACTIONS



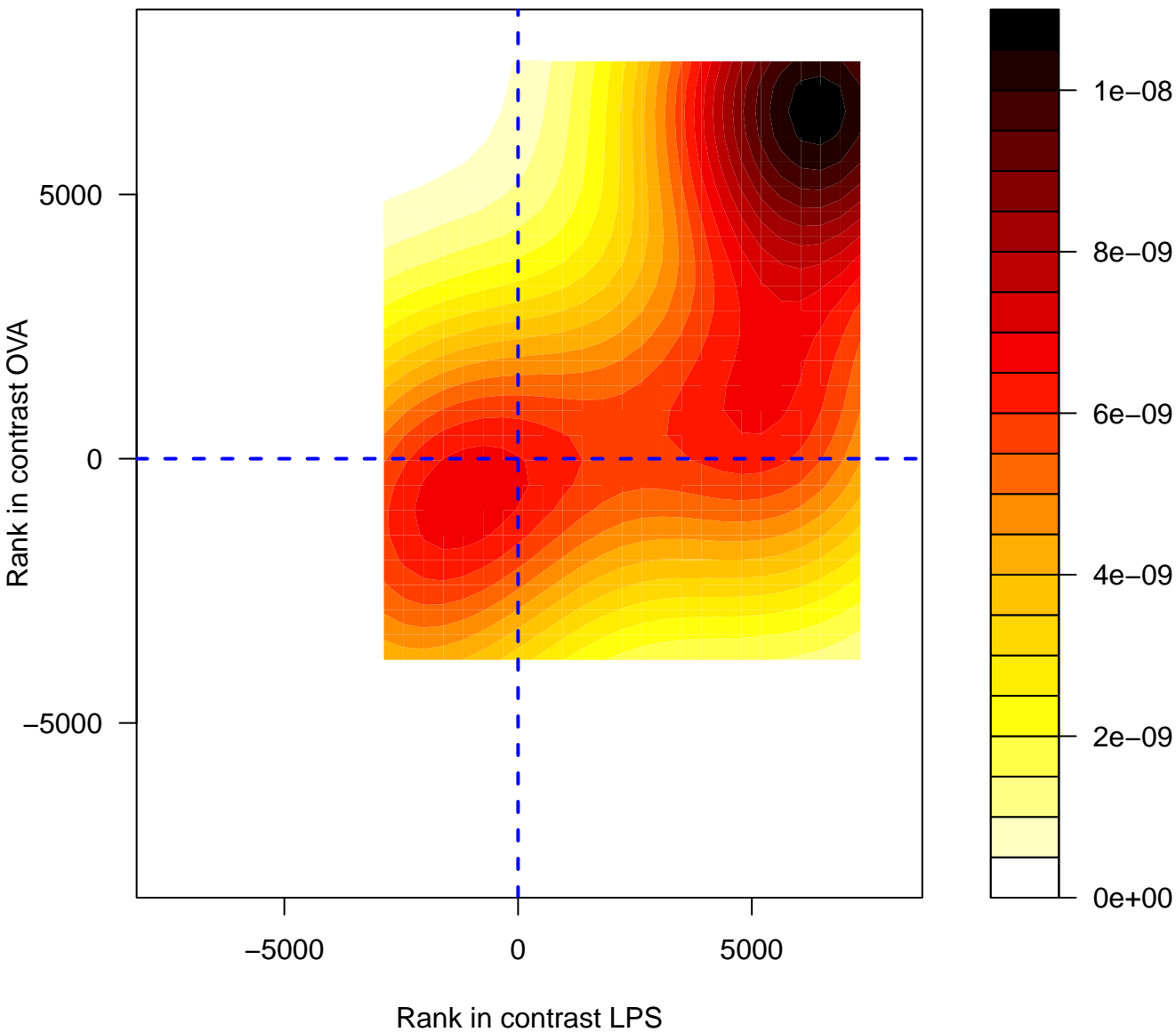
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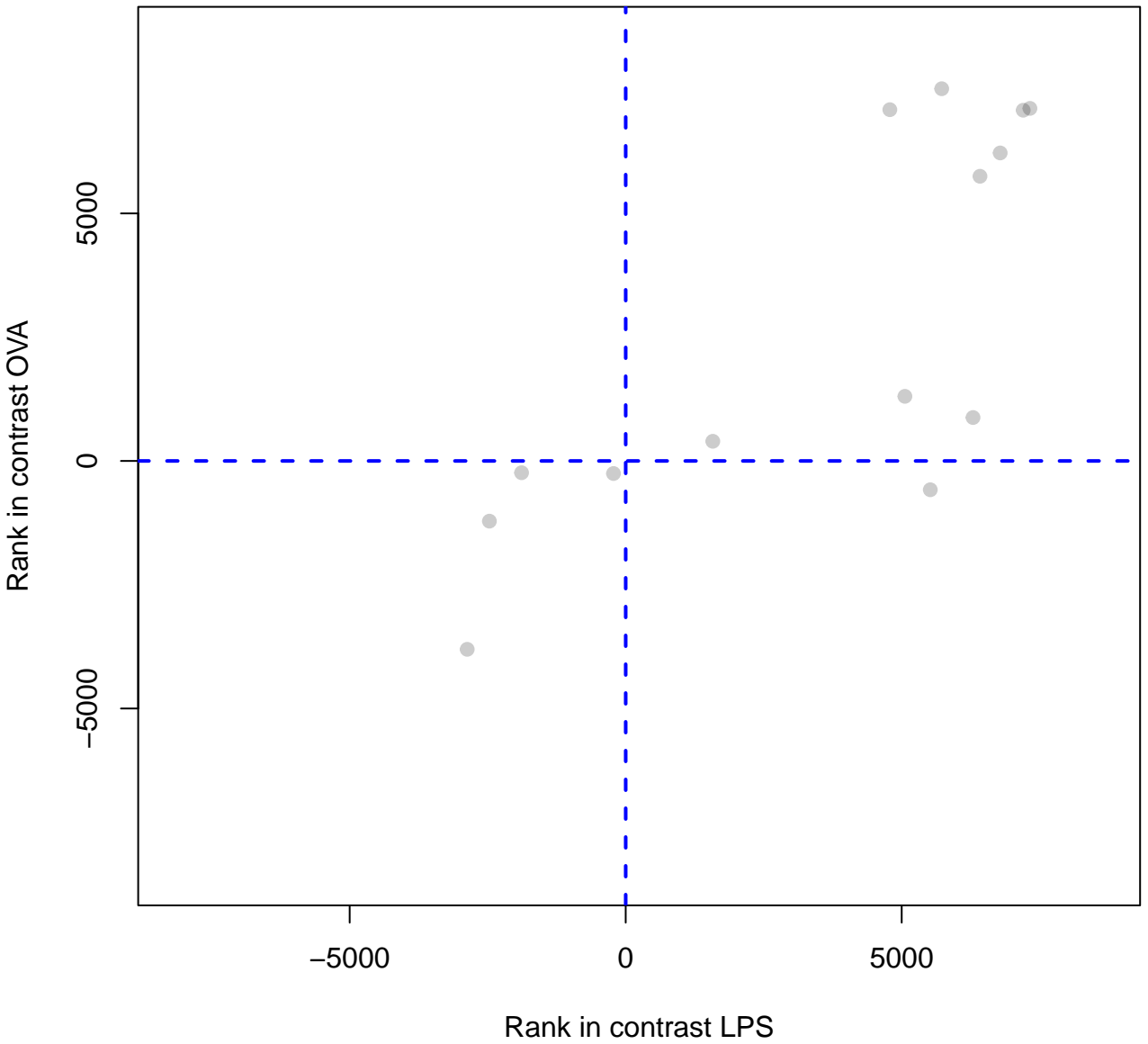
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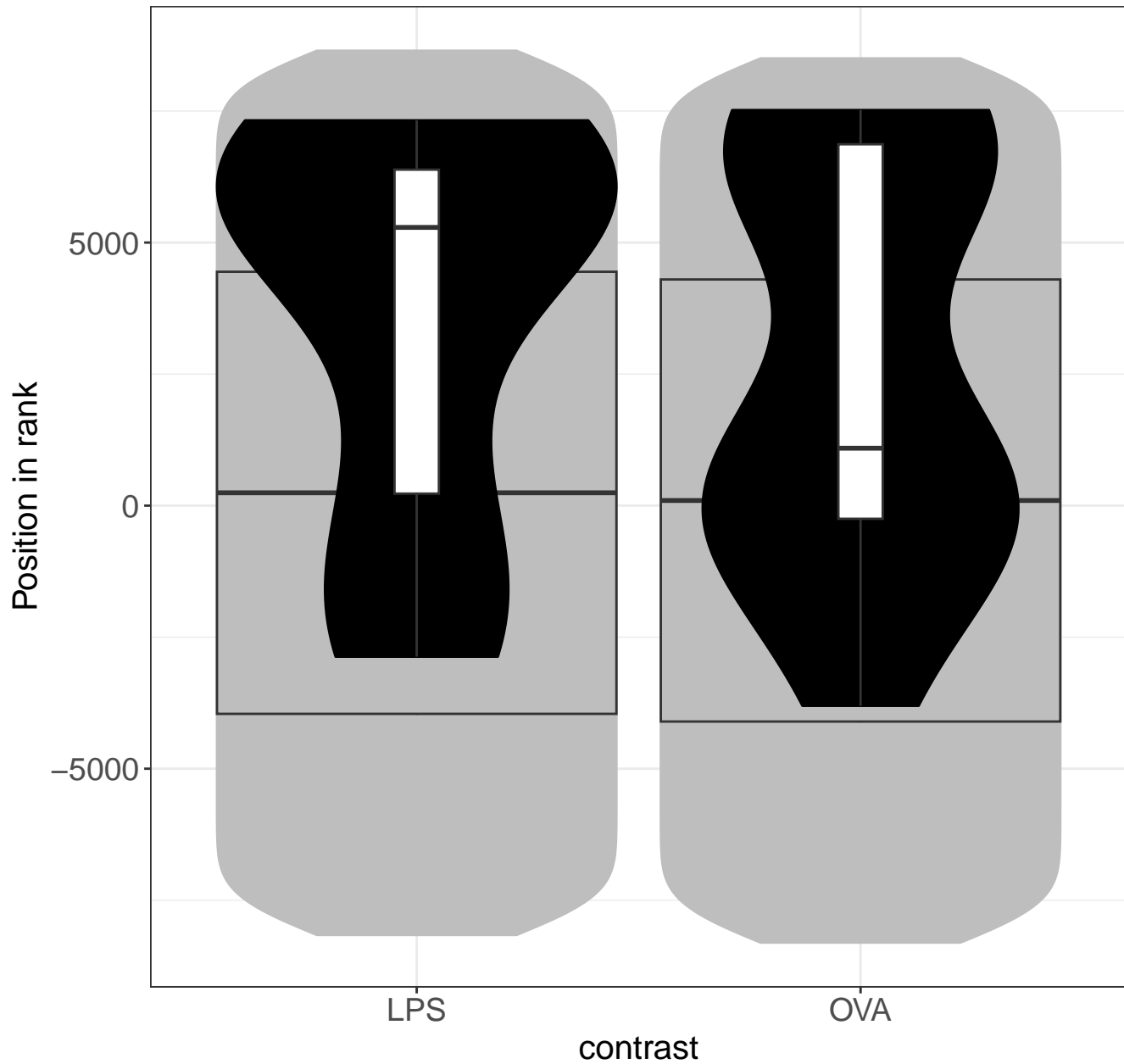
# REPRESSION OF WNT TARGET GENES



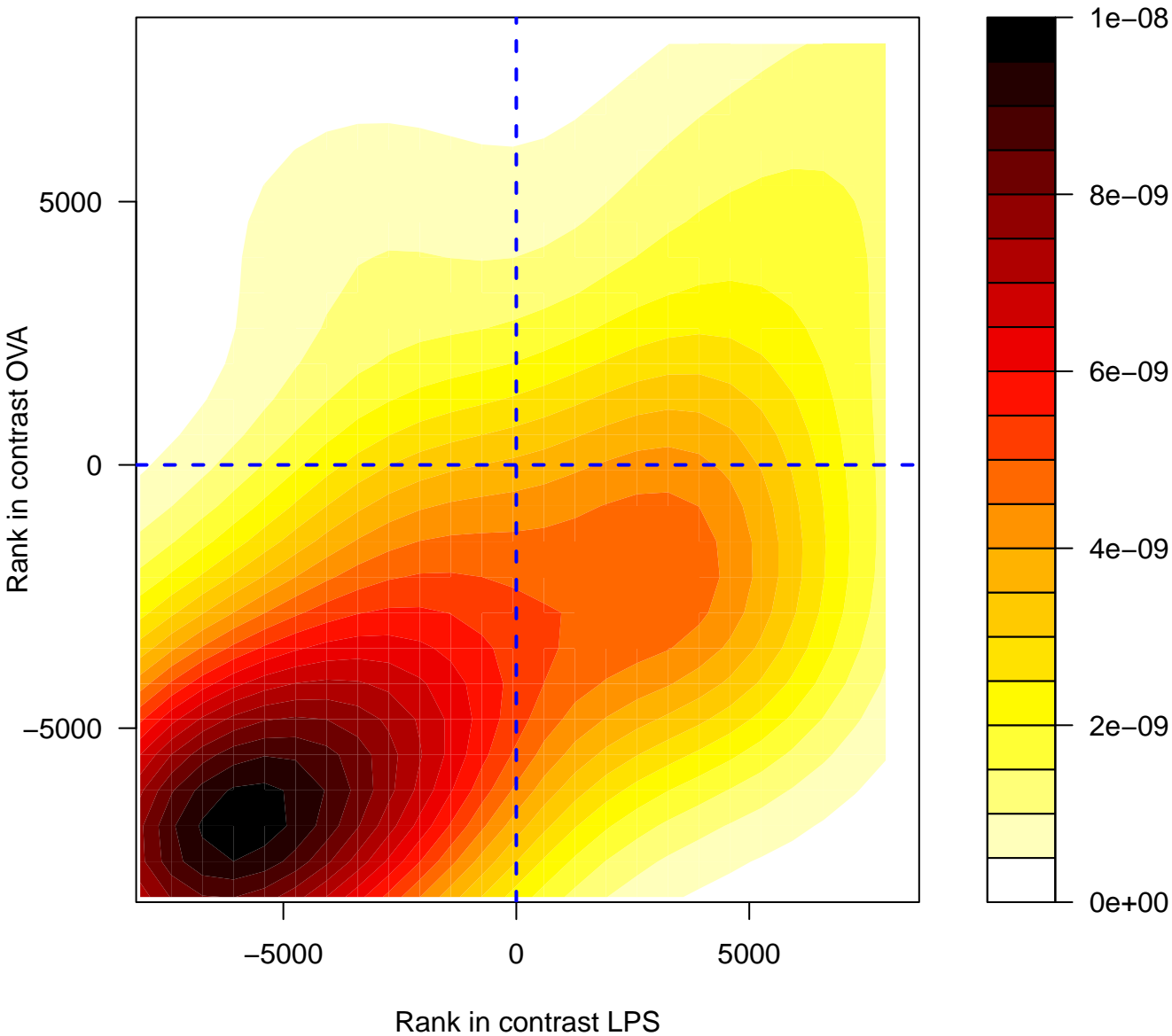
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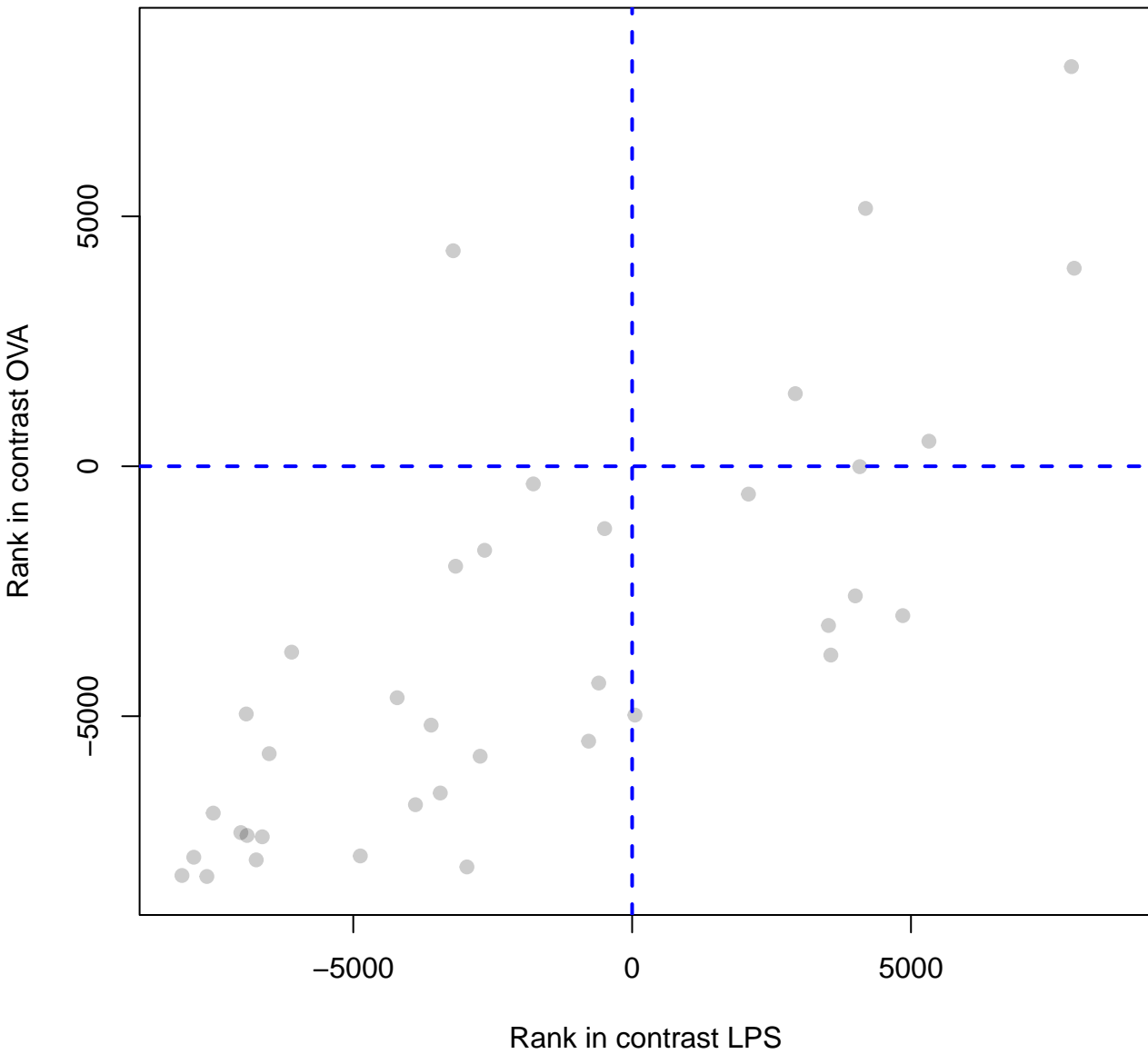
# REPRESSION OF WNT TARGET GENES



# INTERLEUKIN 12 SIGNALING

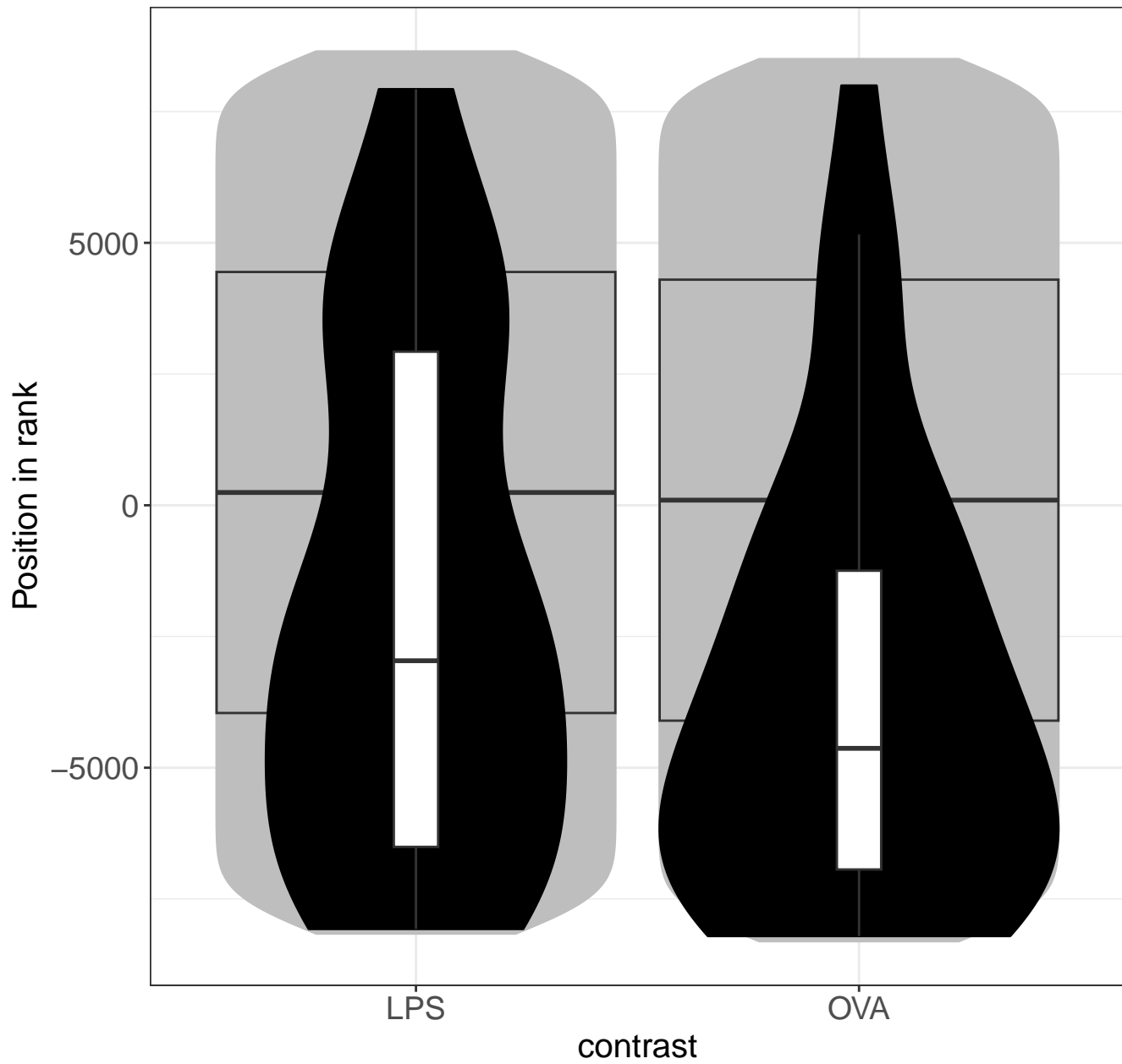


# INTERLEUKIN 12 SIGNALING

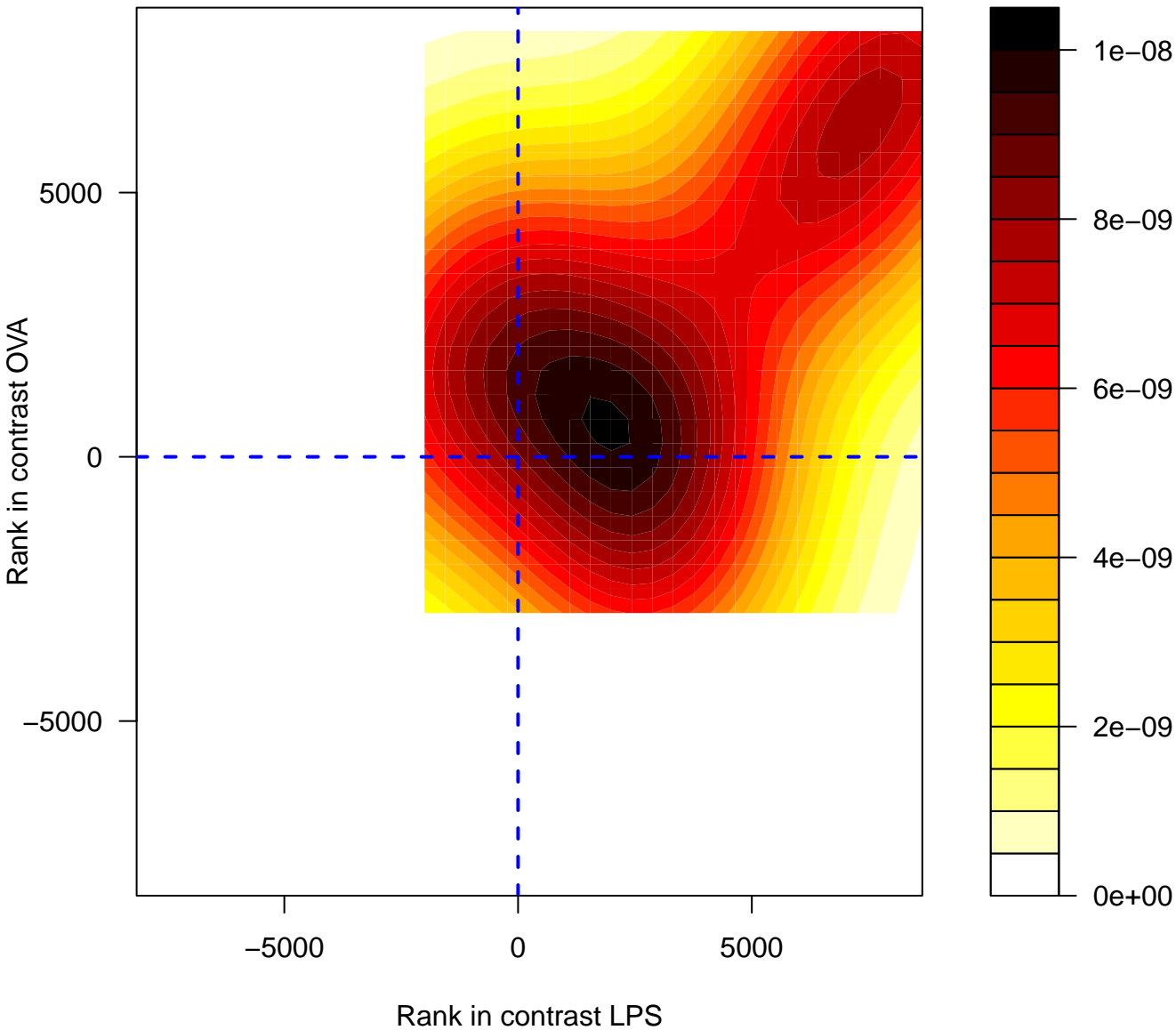




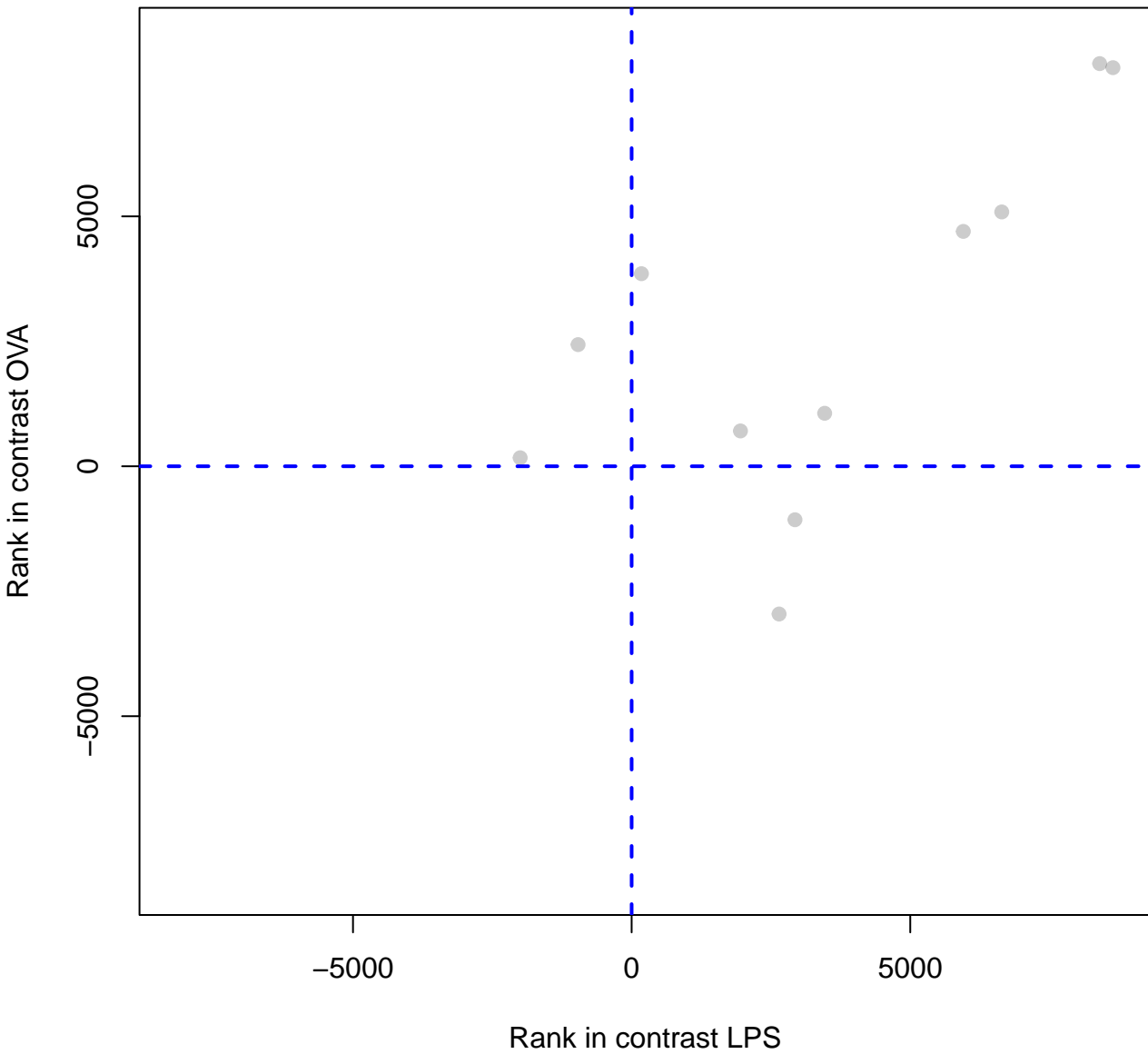
# INTERLEUKIN 12 SIGNALING



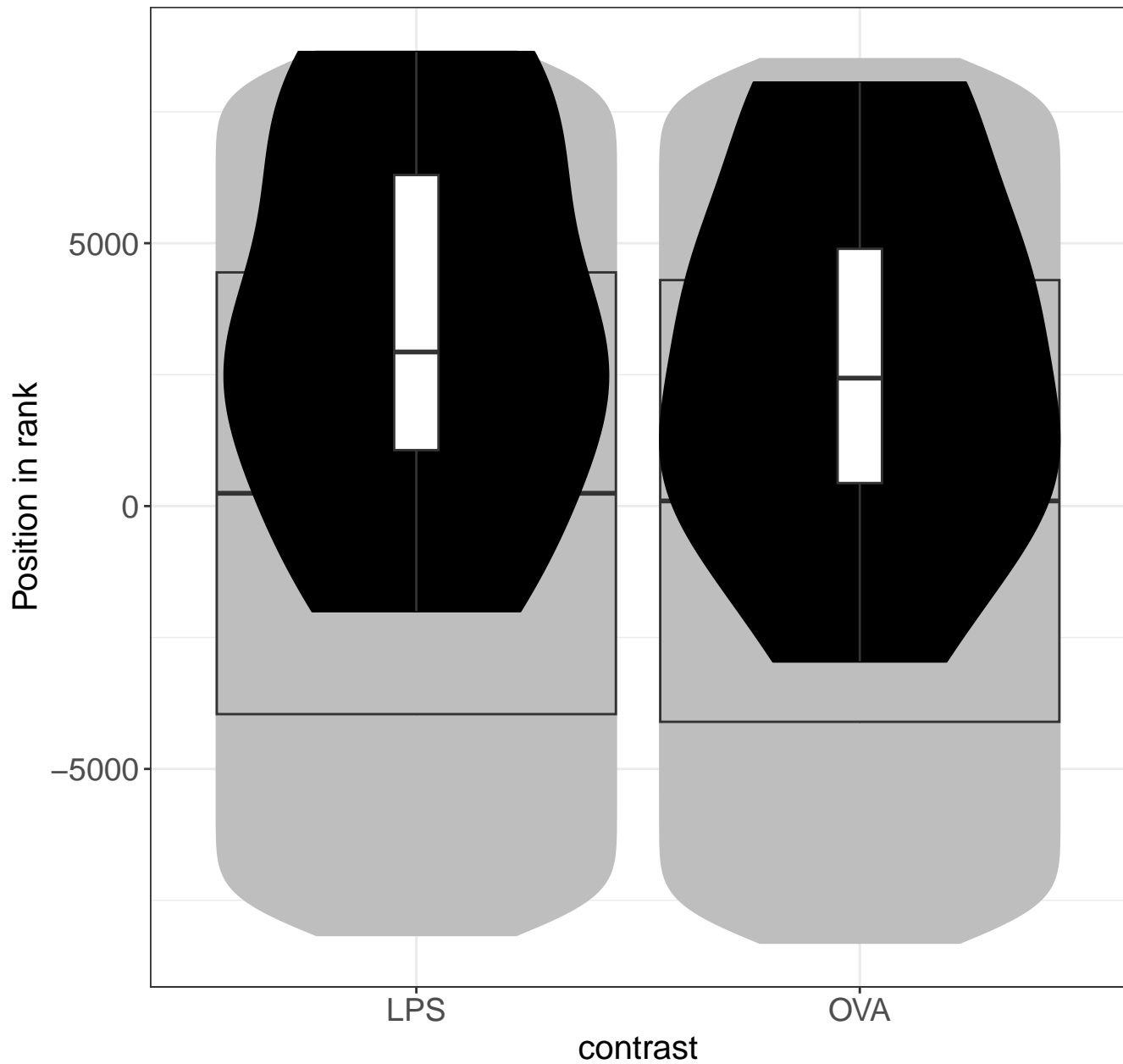
# CELLULAR HEXOSE TRANSPORT



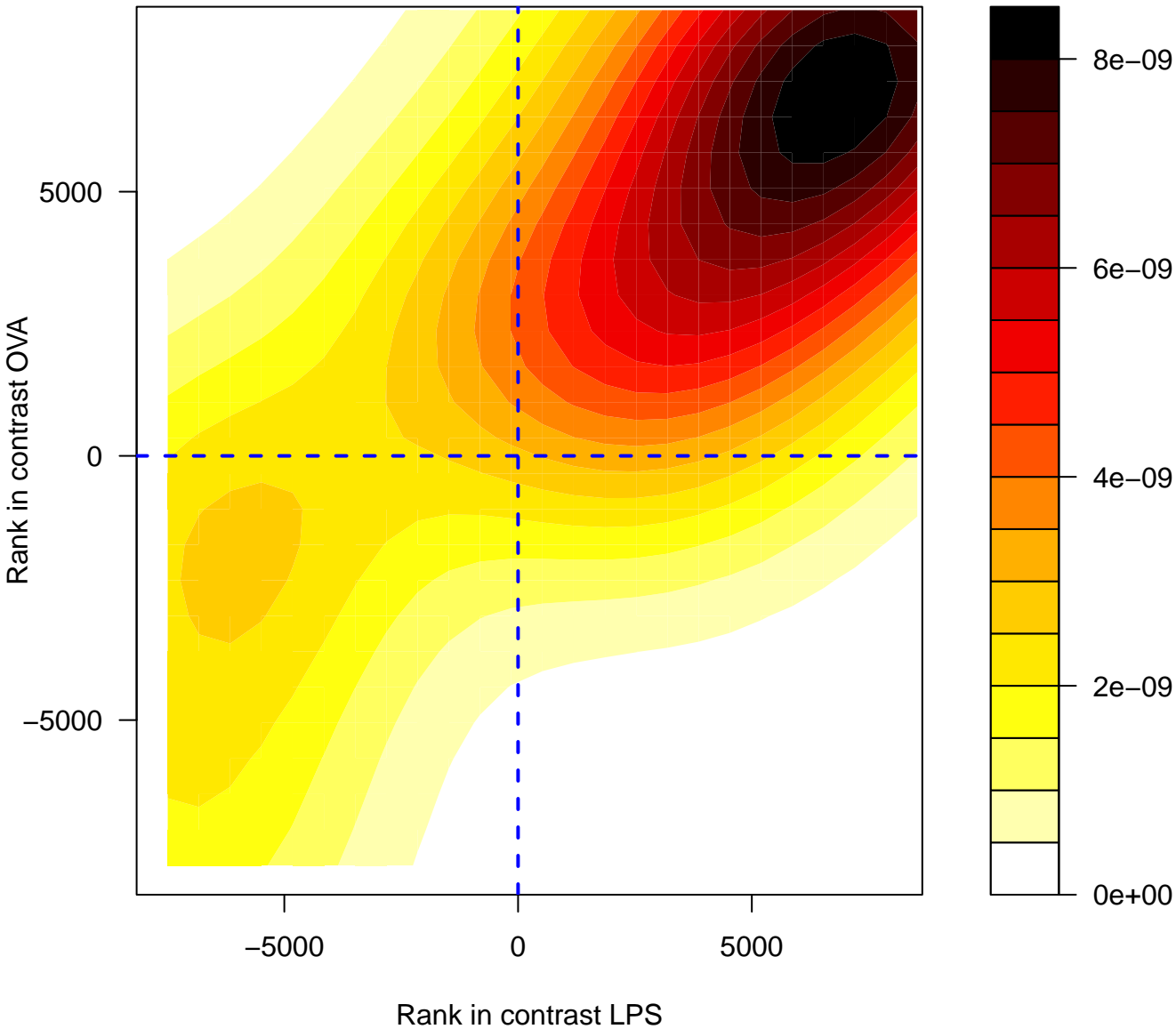
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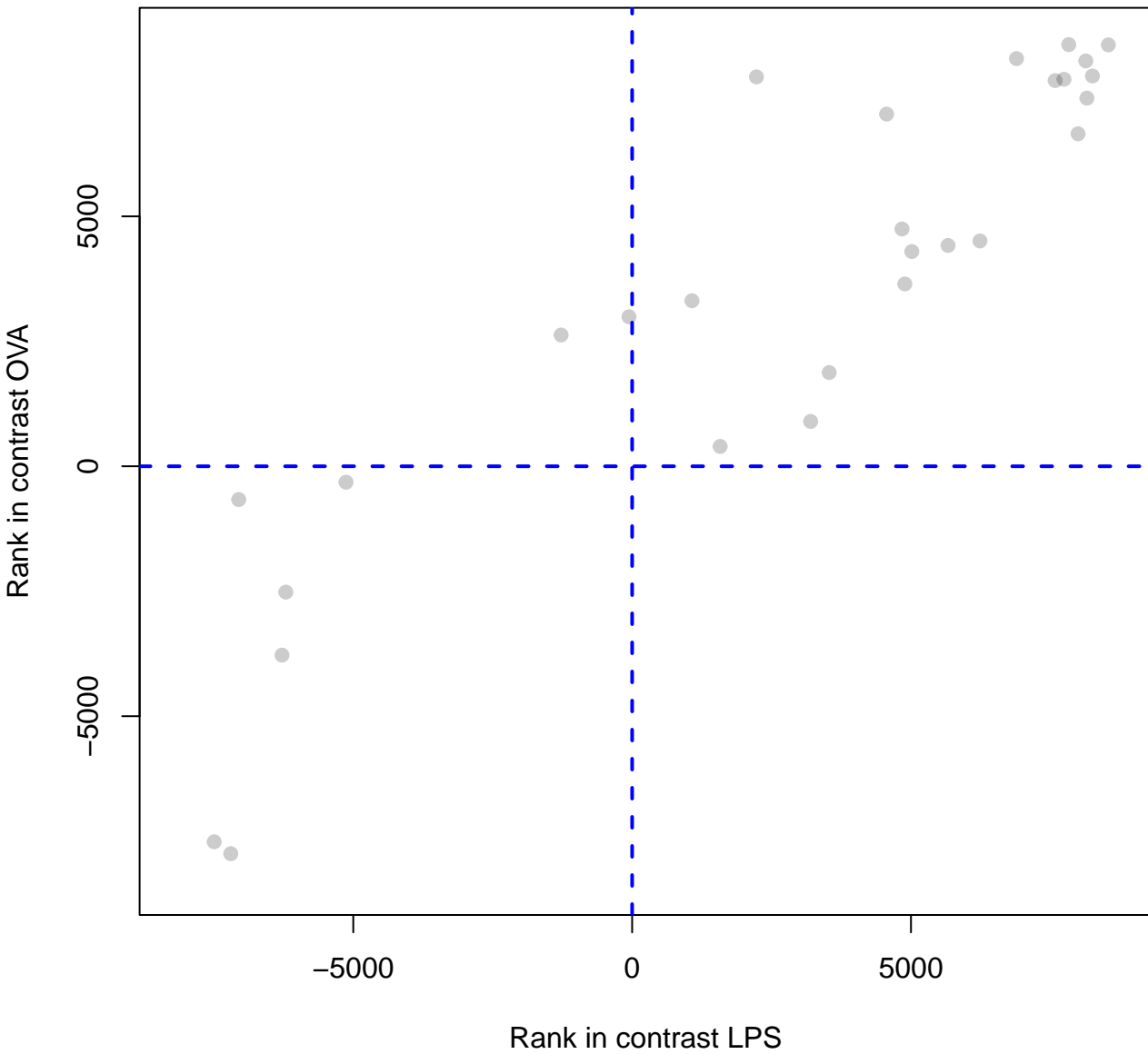
# CELLULAR HEXOSE TRANSPORT



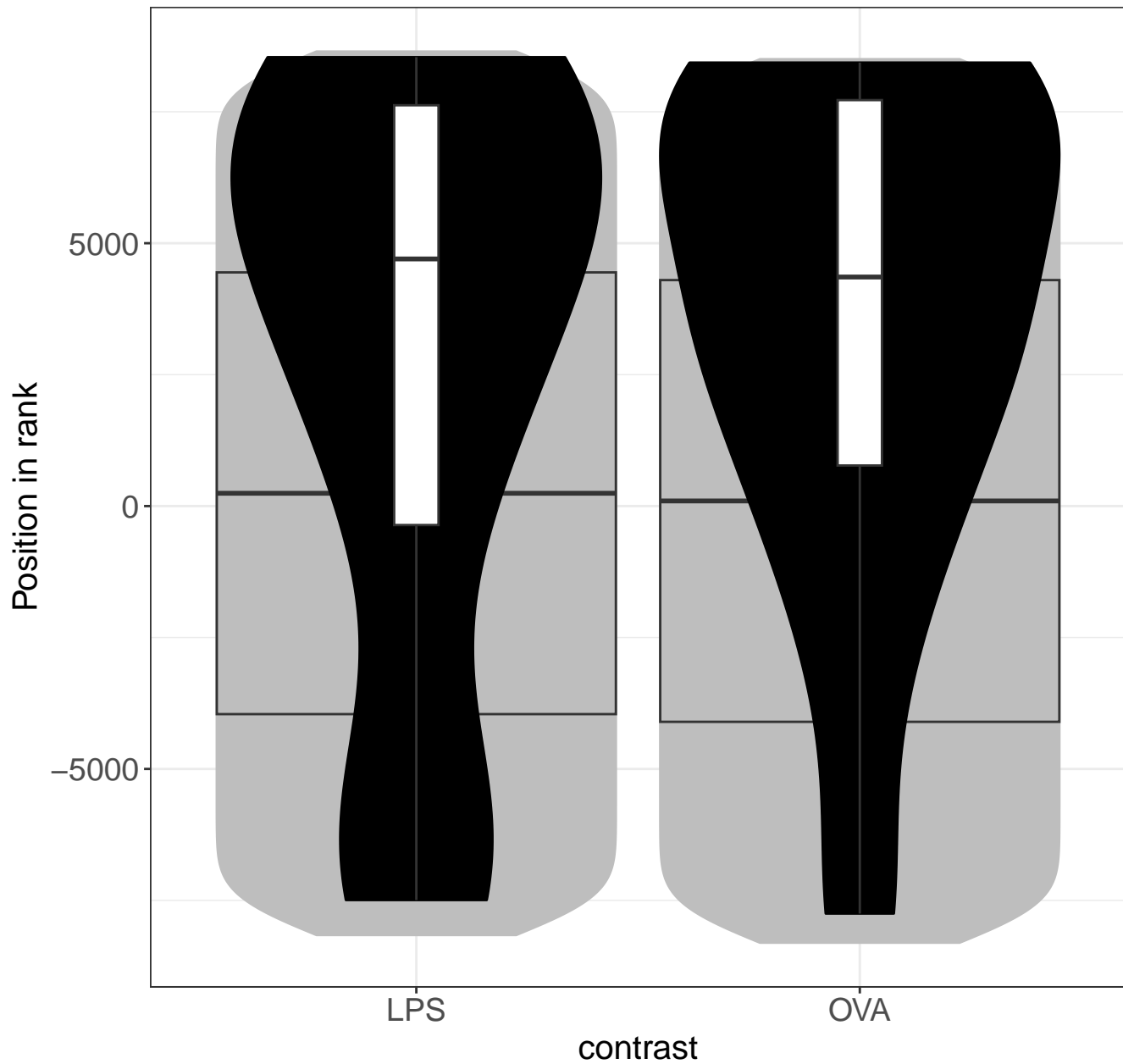
# NOTCH HLH TRANSCRIPTION PATHWAY



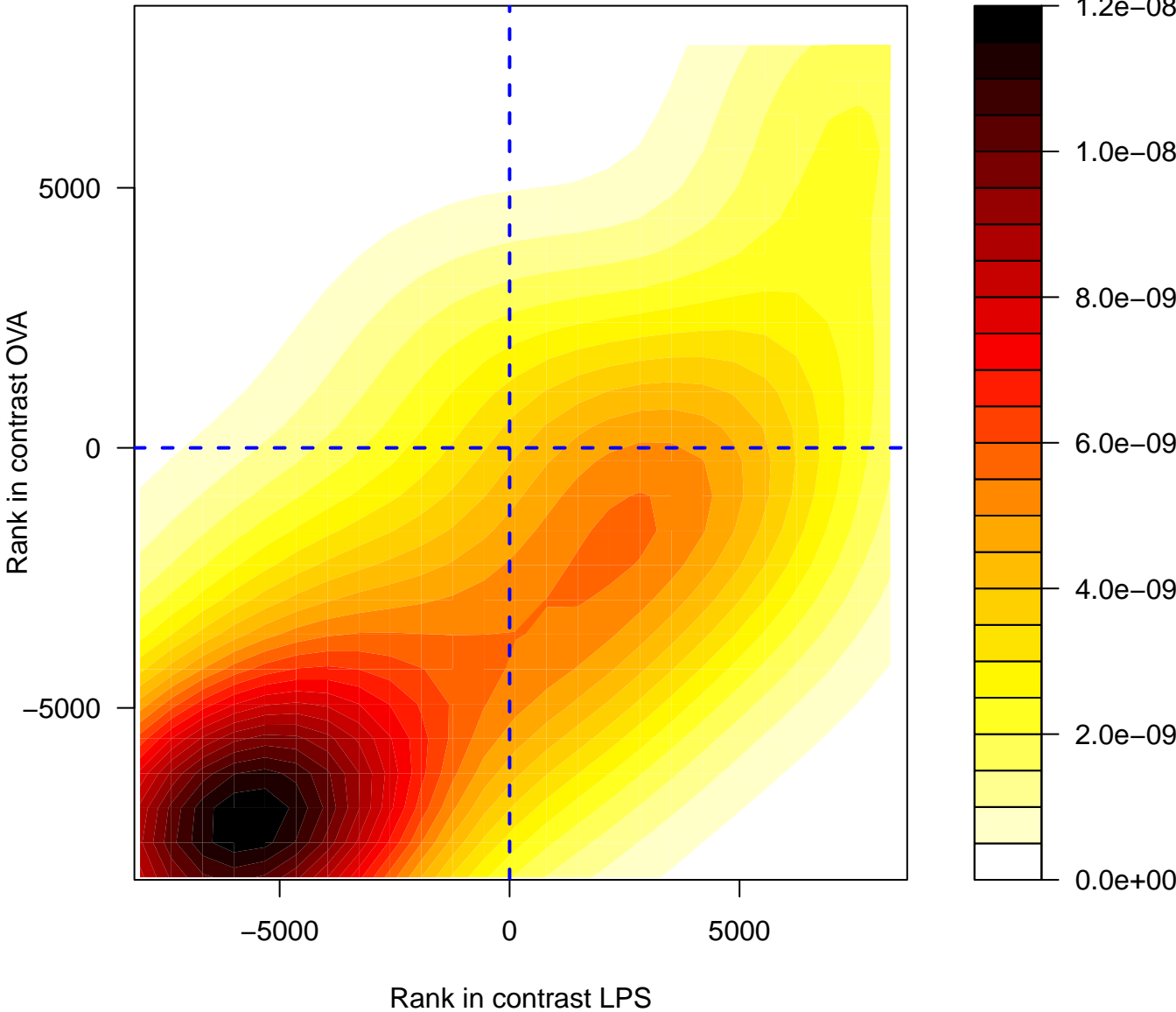
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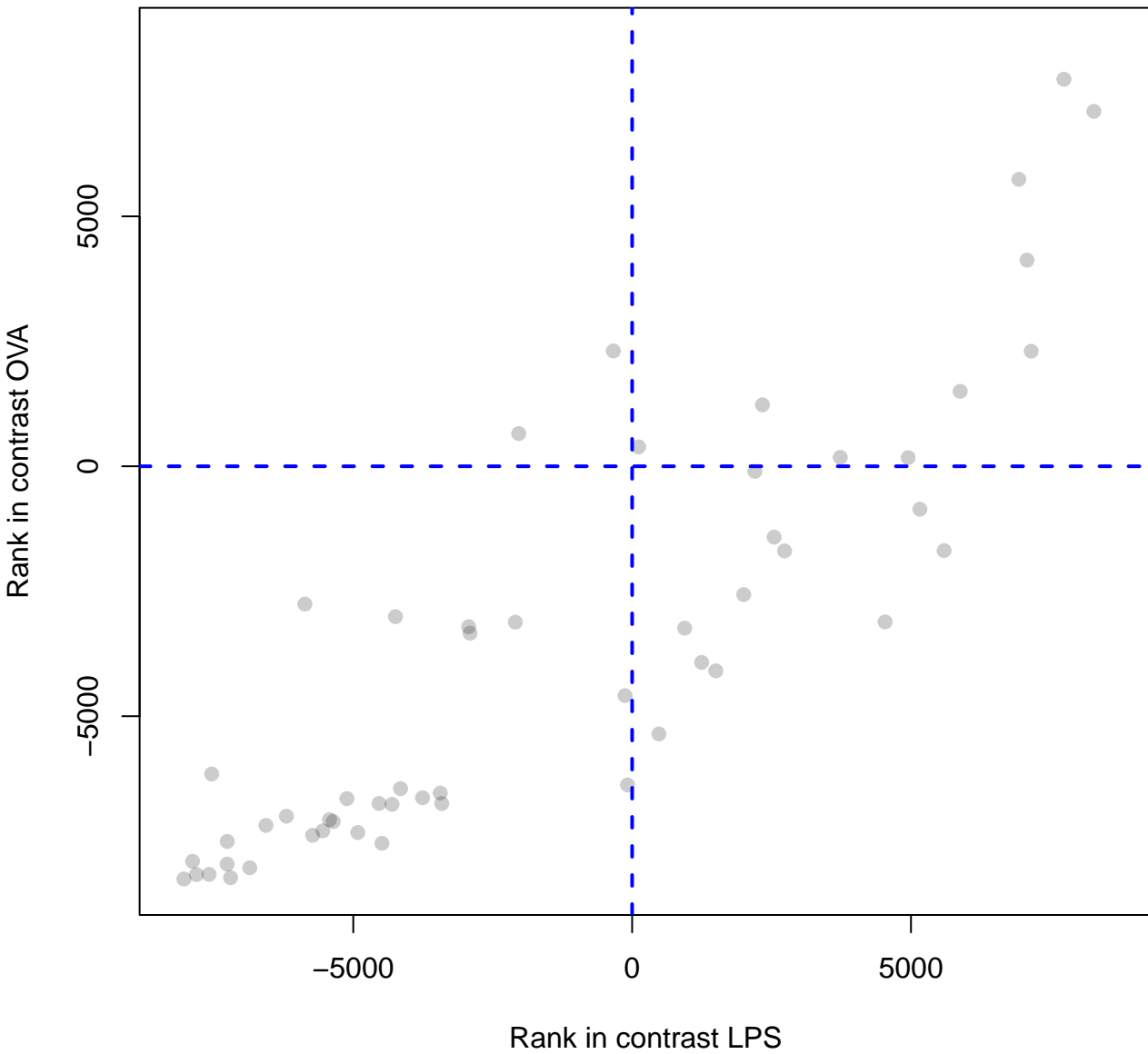


# NEGATIVE REGULATION OF NOTCH4 SIGNALING

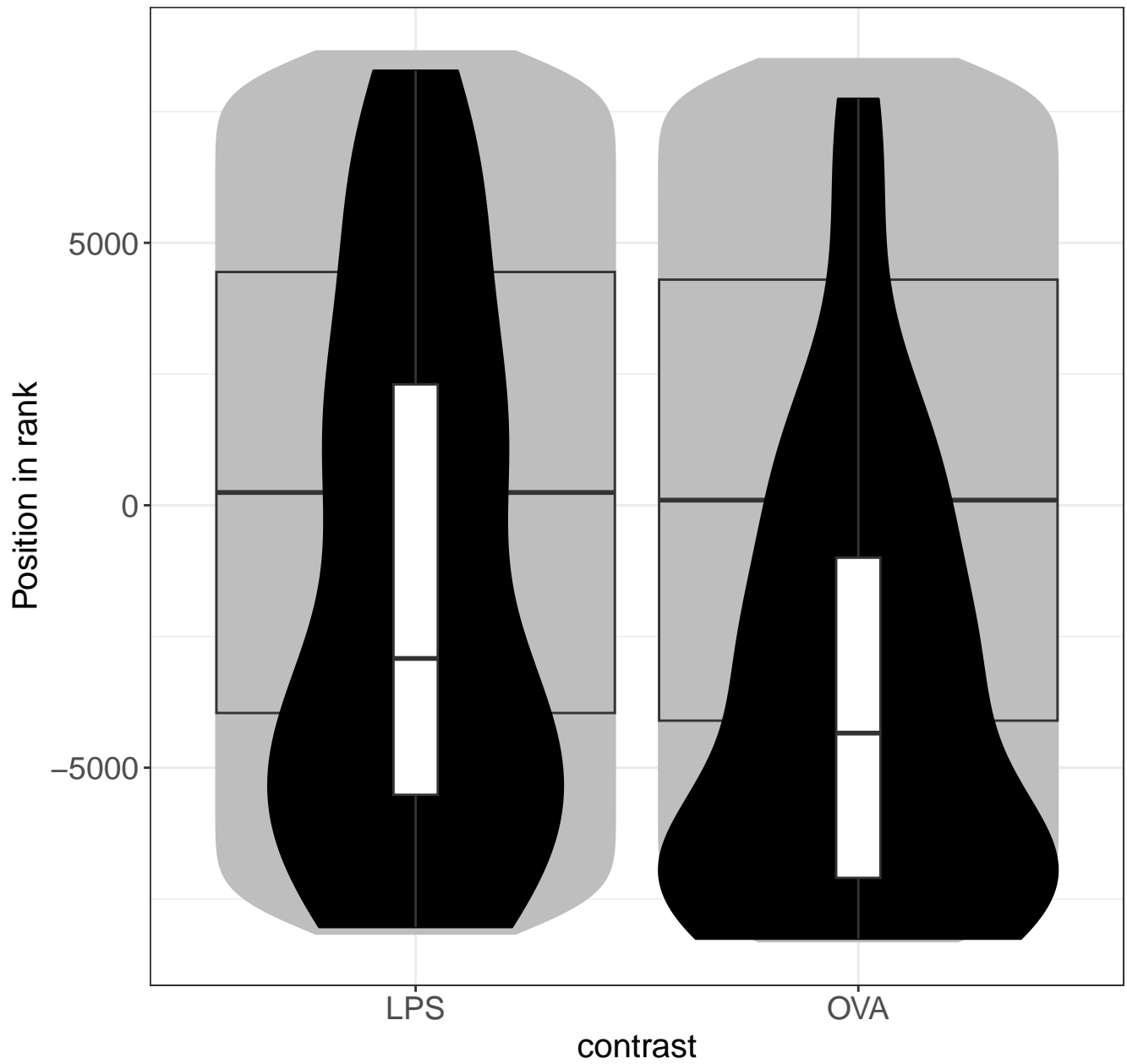




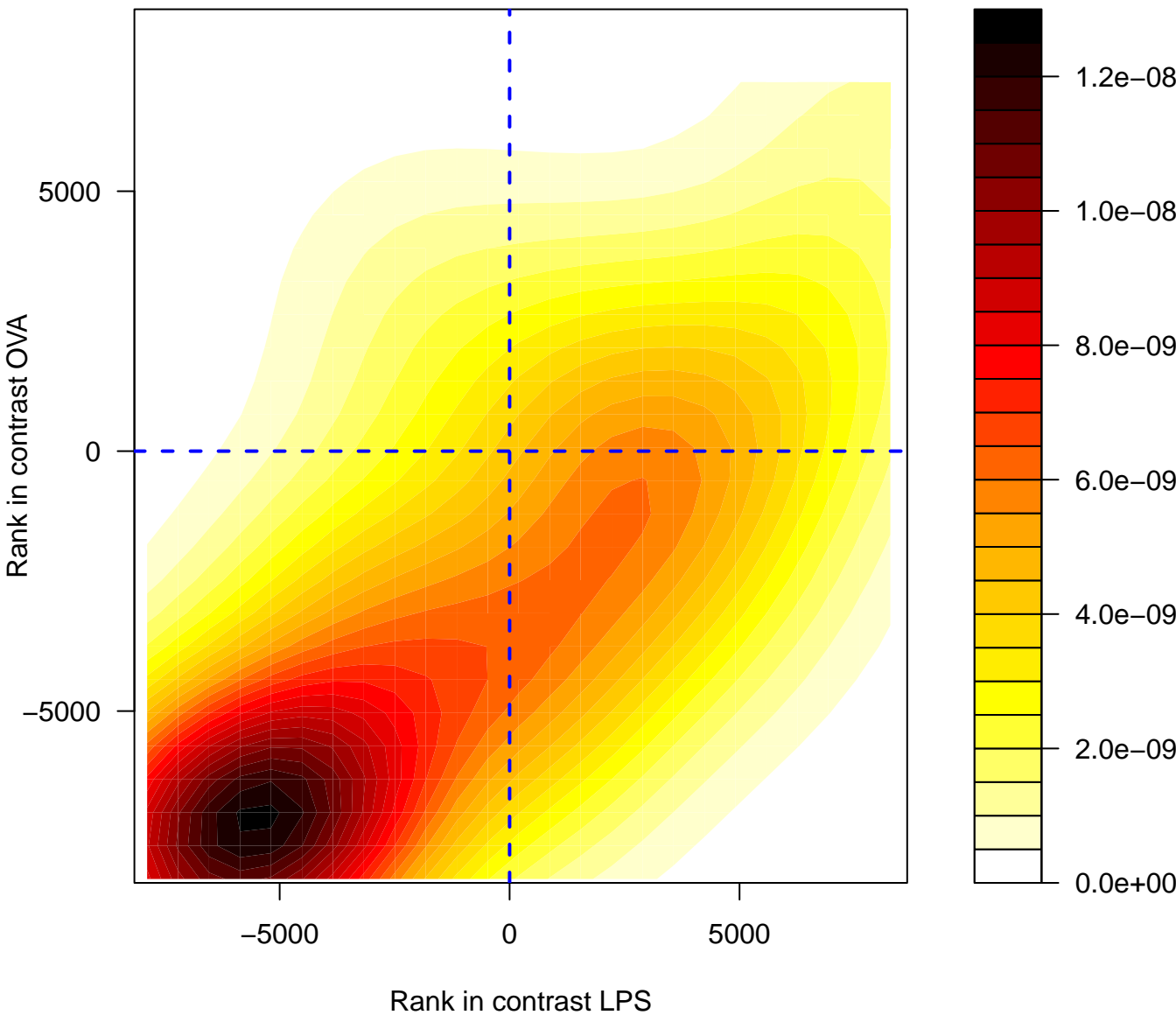
# NEGATIVE REGULATION OF NOTCH4 SIGNALING



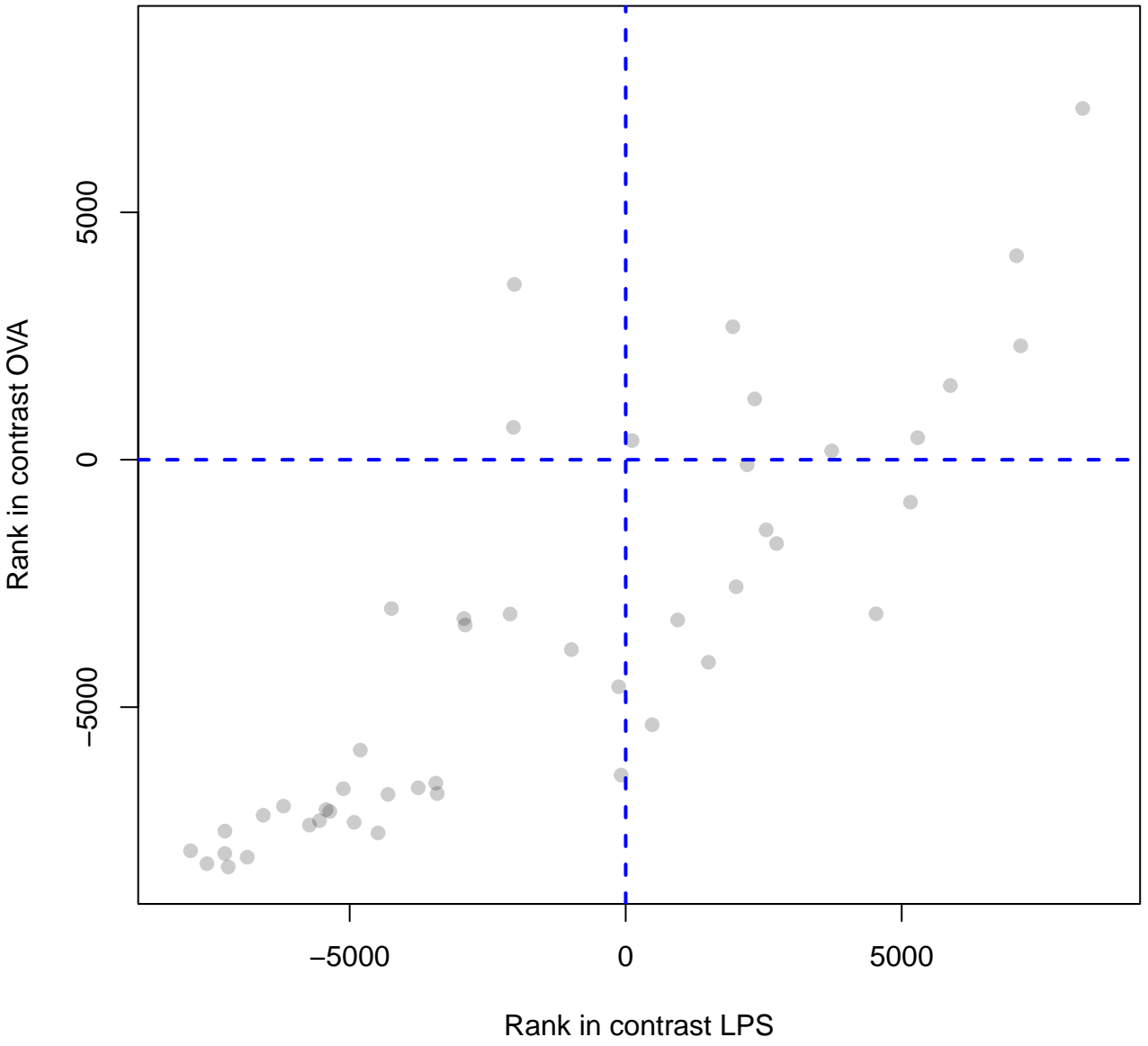
# NEGATIVE REGULATION OF NOTCH4 SIGNALING



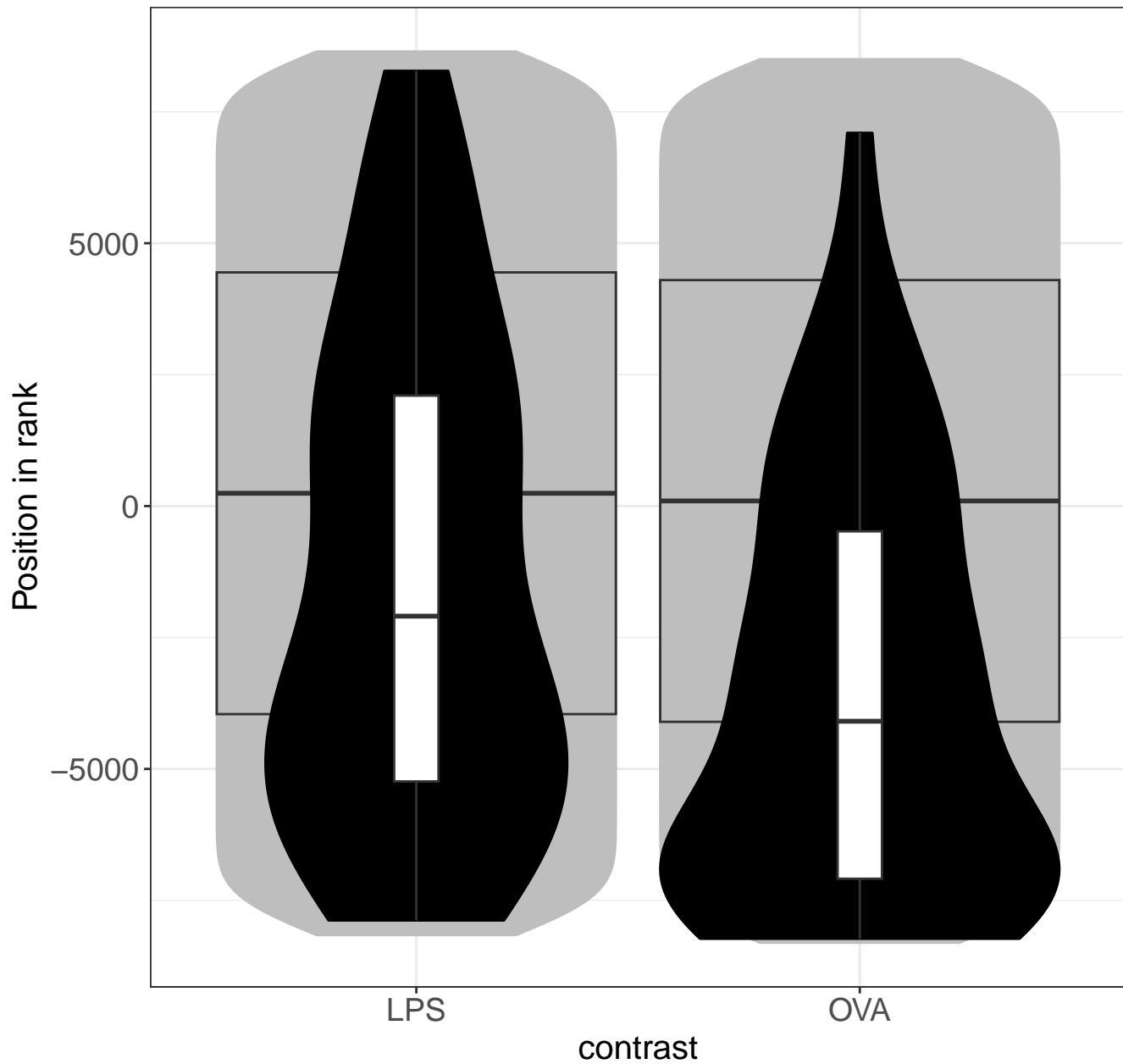
# SS PRESENTATION OF SOLUBLE EXOGENOUS ANTIGENS EI



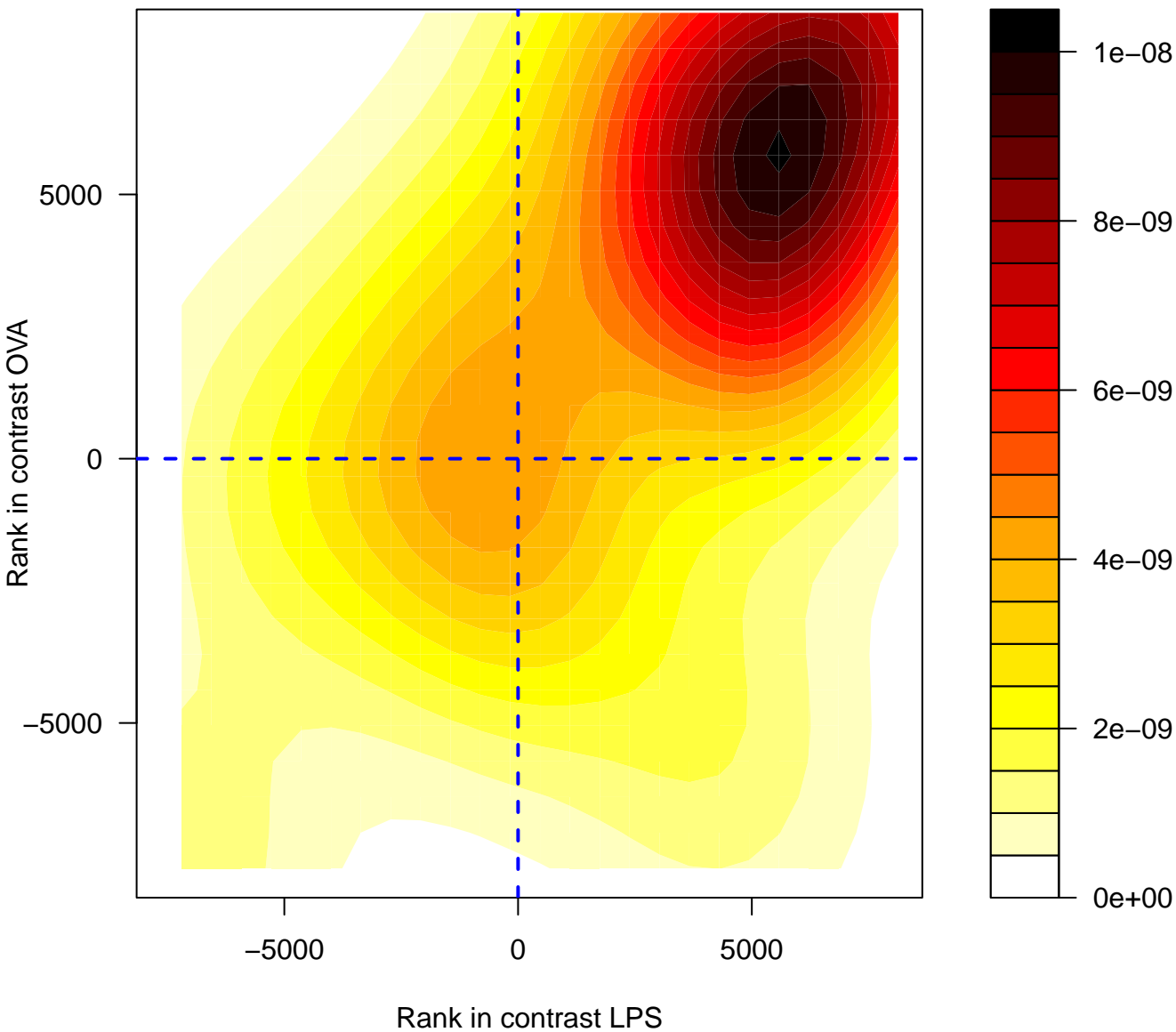
# CROSS PRESENTATION OF SOLUBLE EXOGENOUS ANTIGENS ENDOSOM



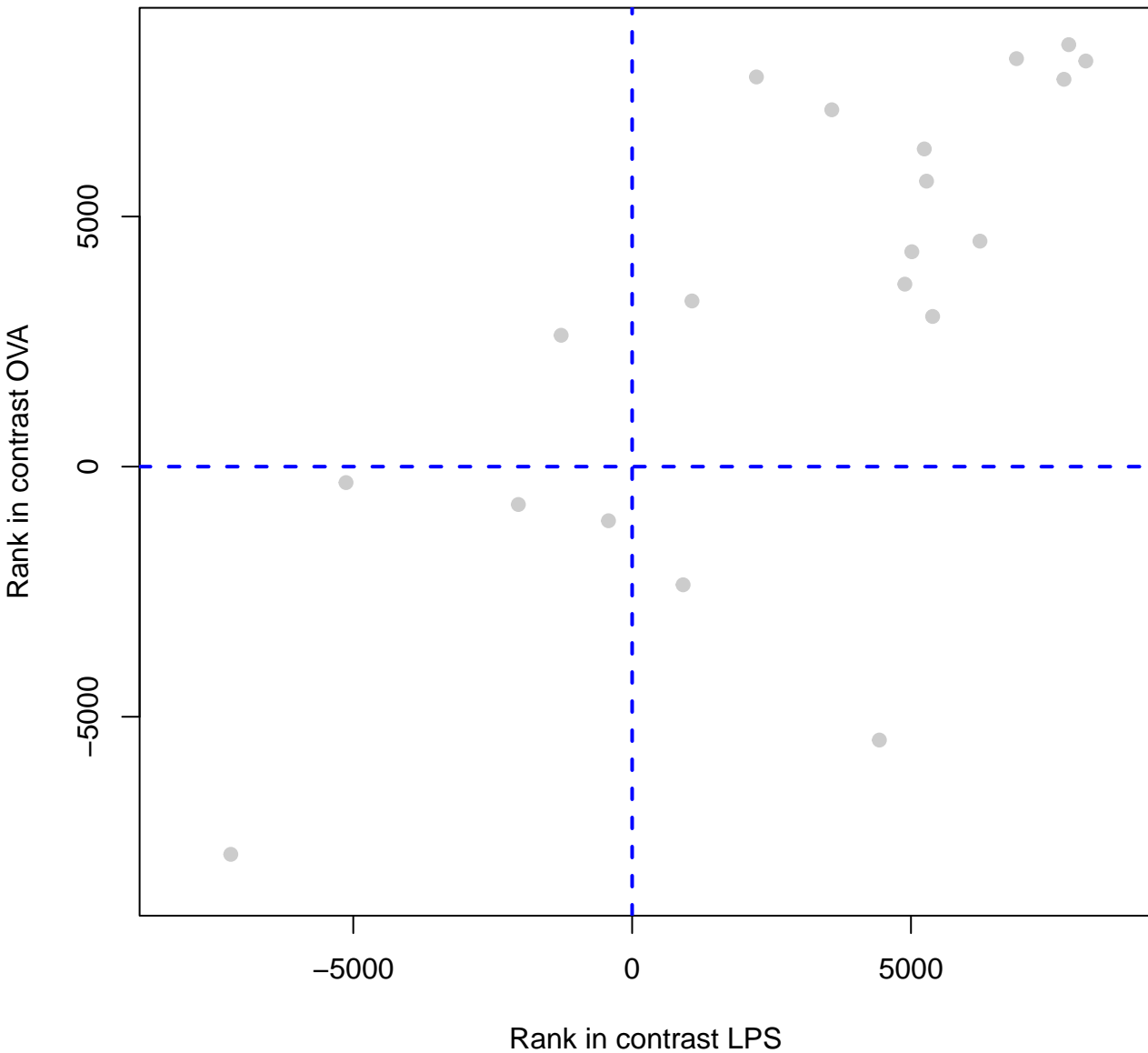
# CROSS PRESENTATION OF SOLUBLE EXOGENE



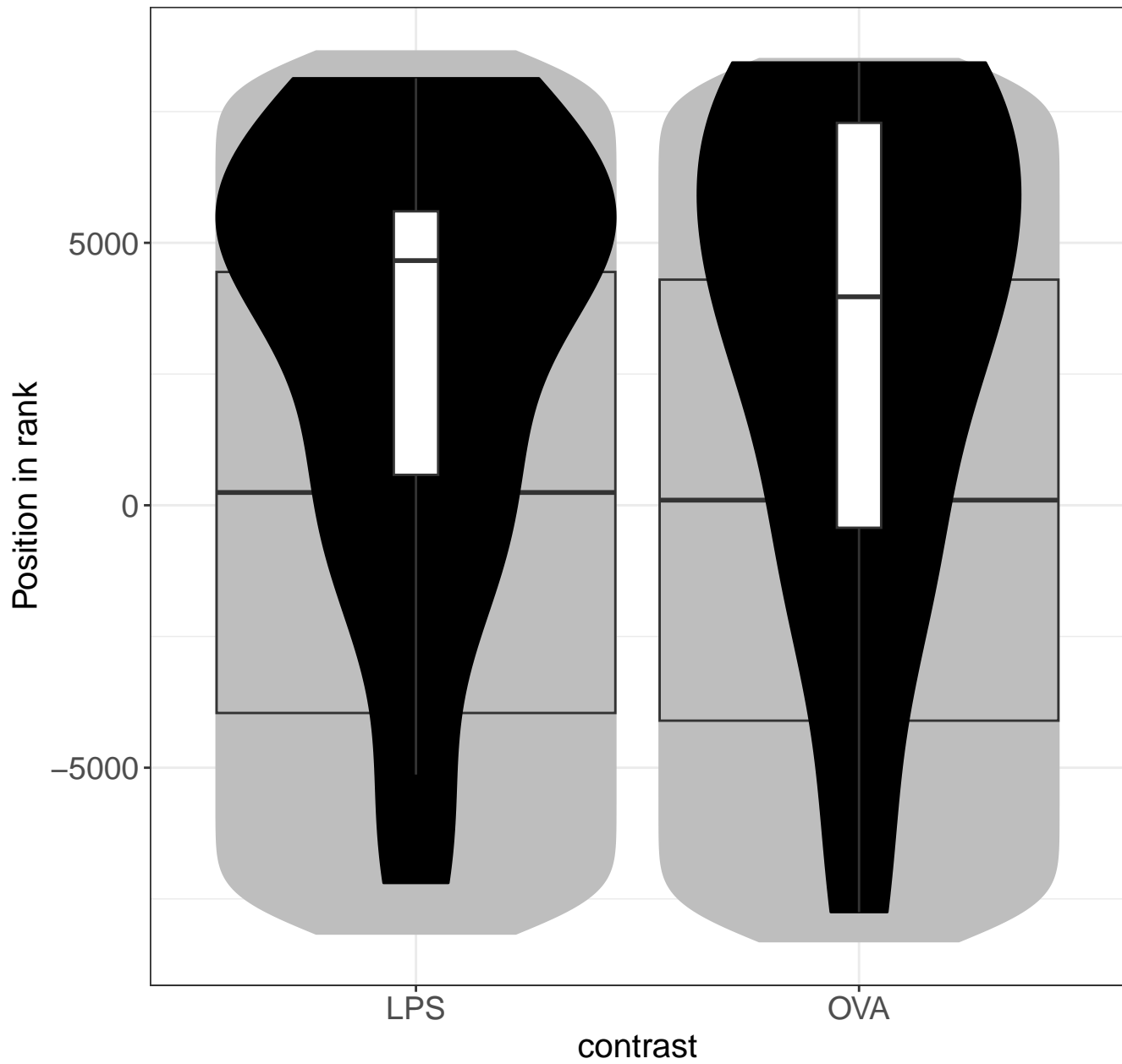
# NOTCH4 INTRACELLULAR DOMAIN REGULATES TRANSCRI



# NOTCH4 INTRACELLULAR DOMAIN REGULATES TRANSCRIPTION

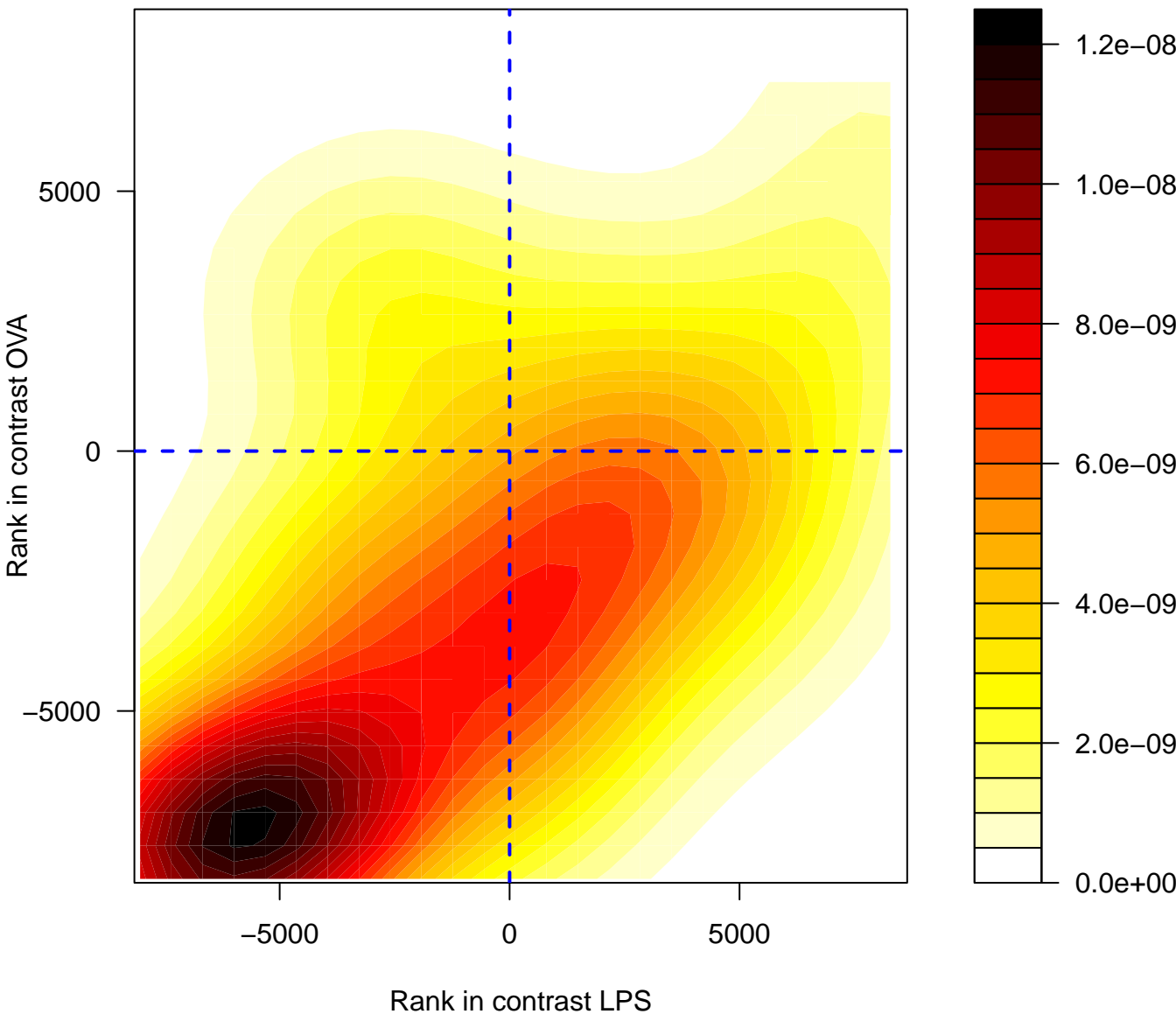


# NOTCH4 INTRACELLULAR DOMAIN REGULATED

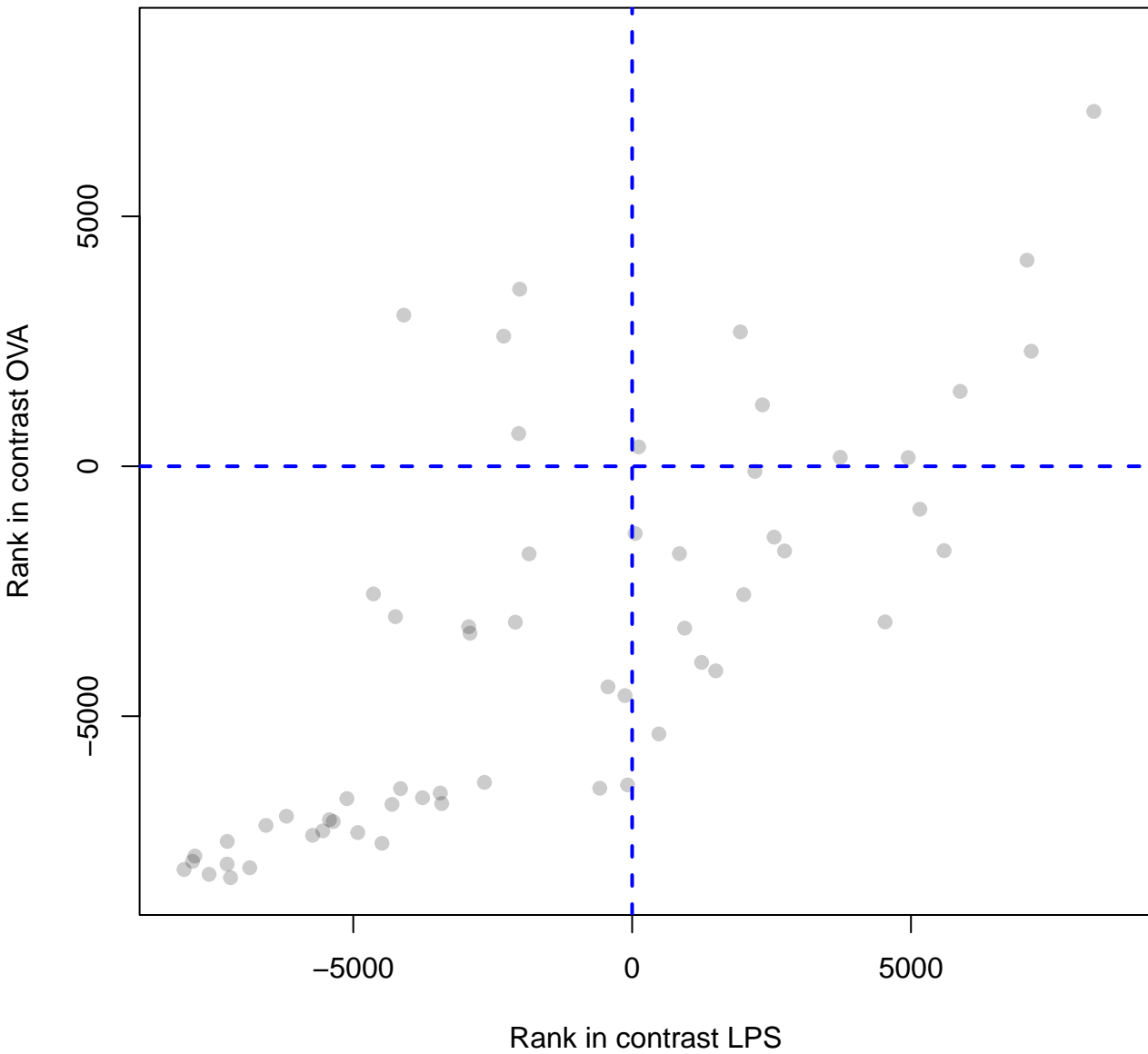




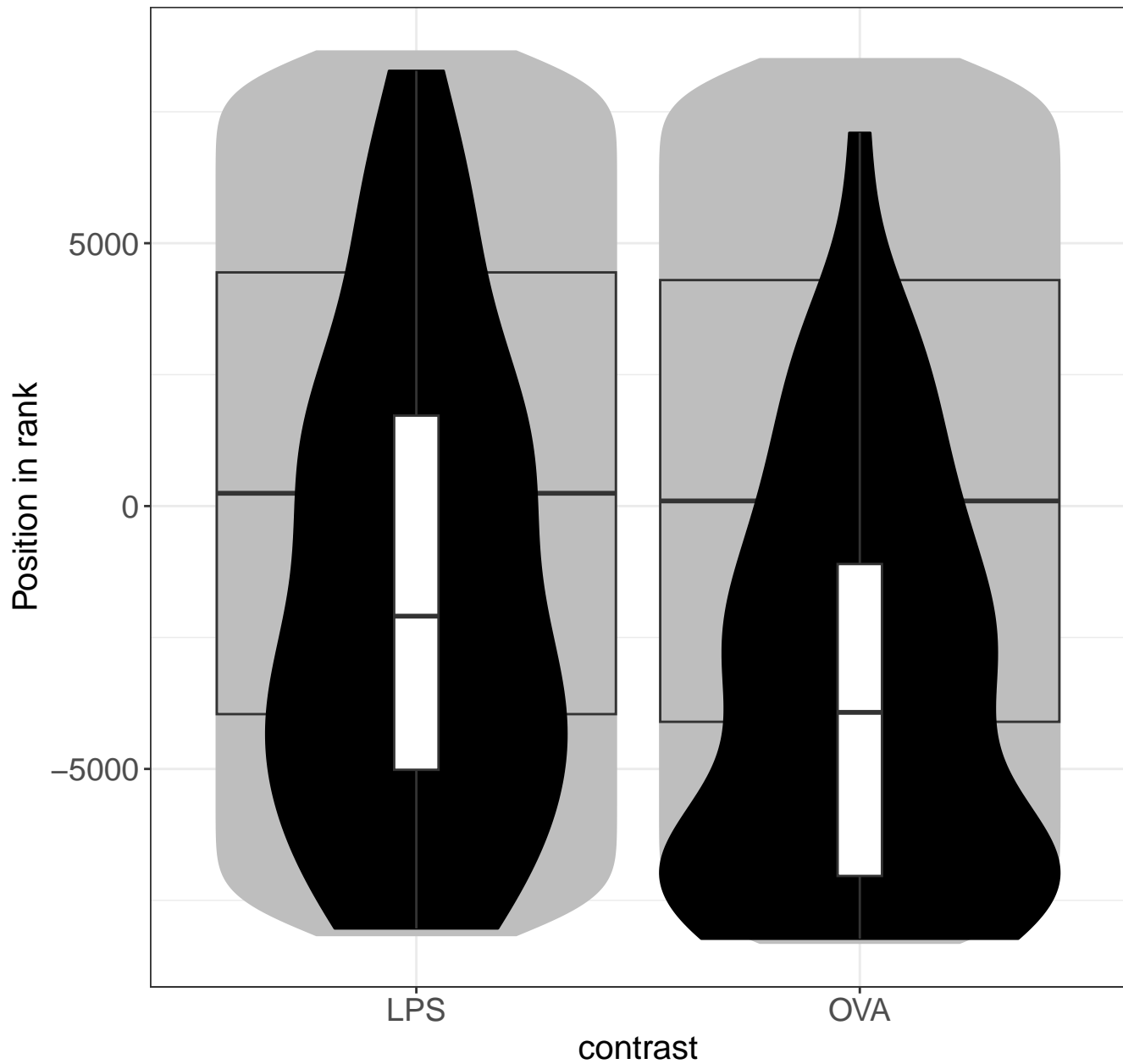
# DEFECTIVE CFTR CAUSES CYSTIC FIBROSIS



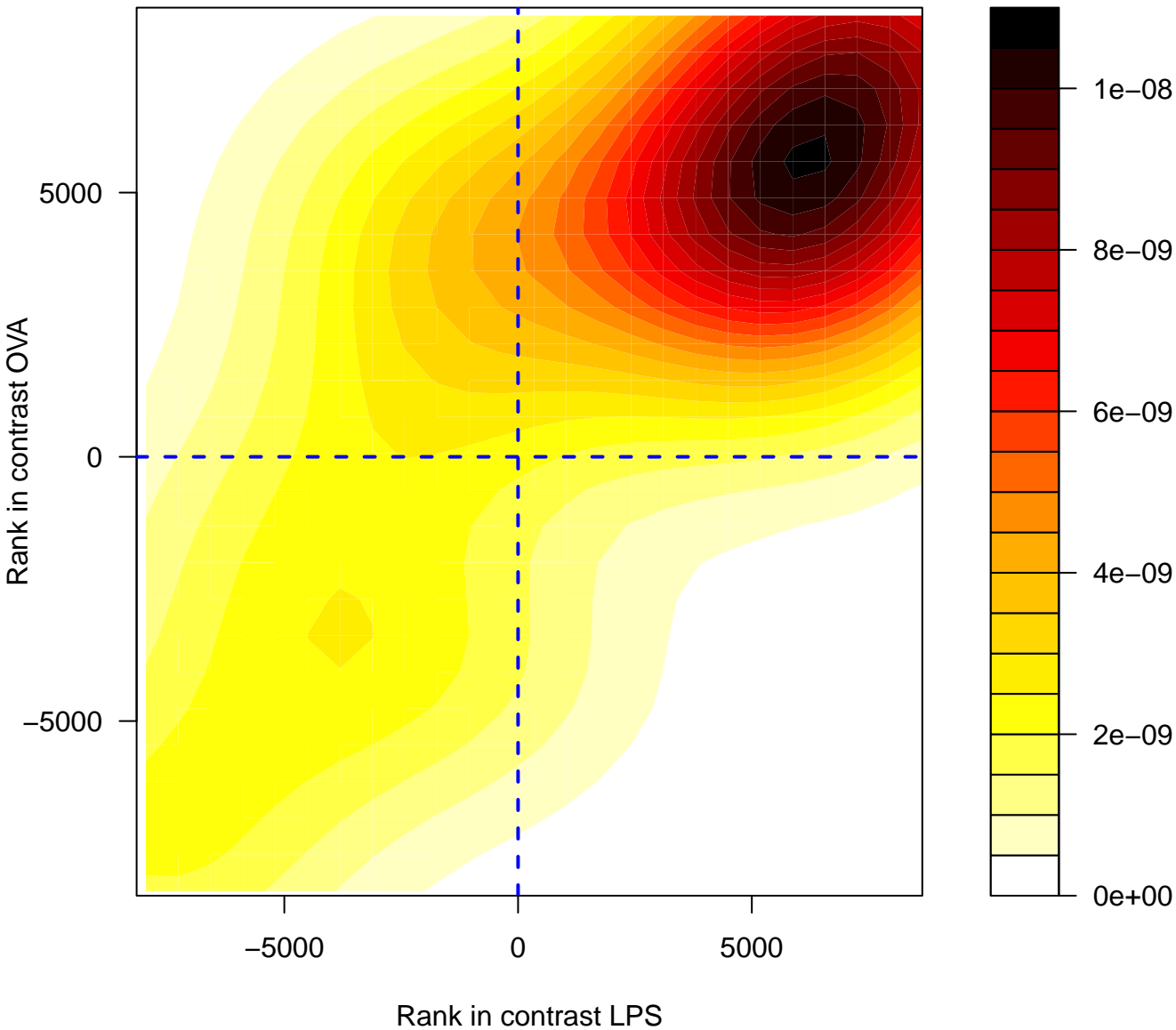
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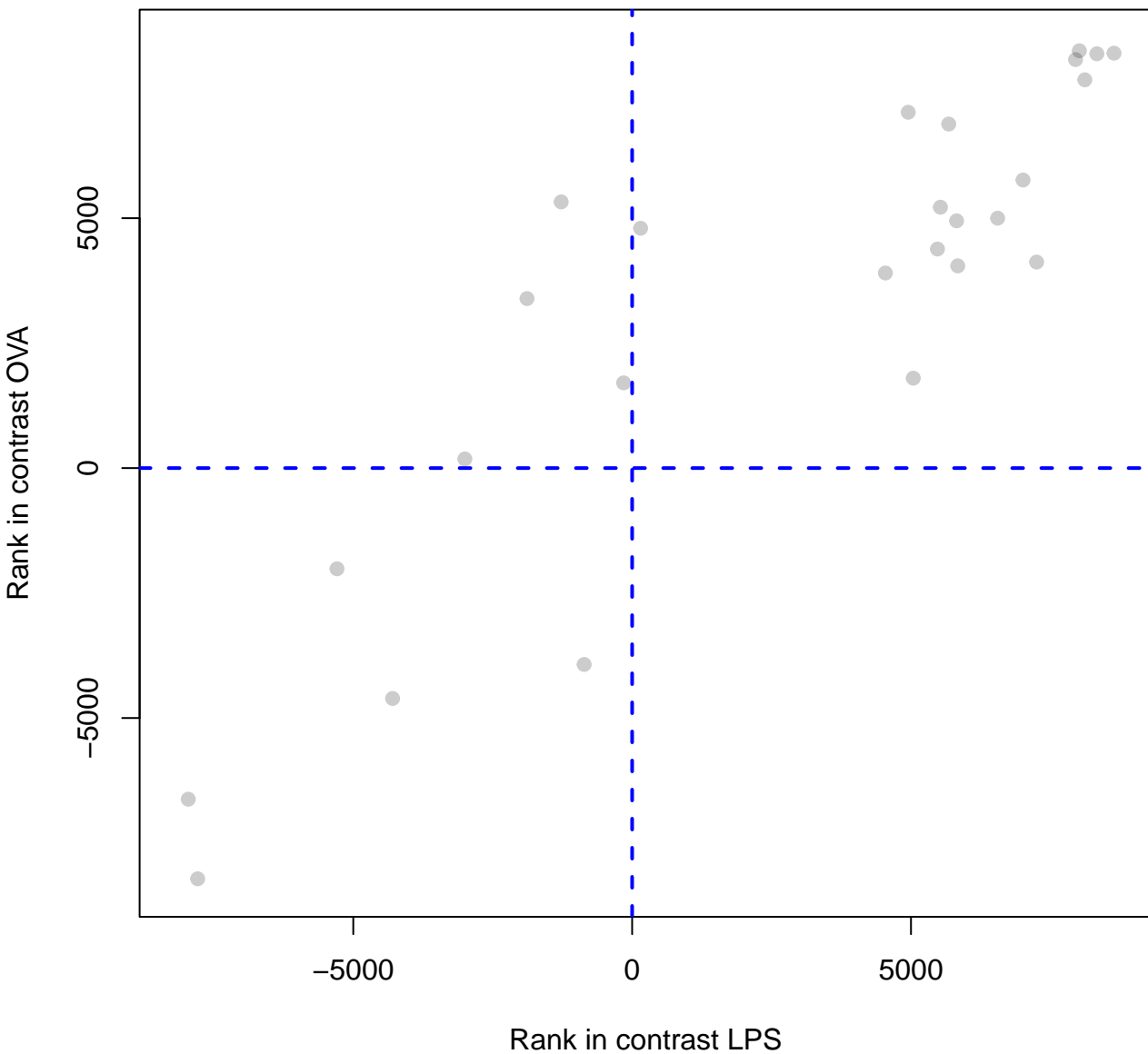
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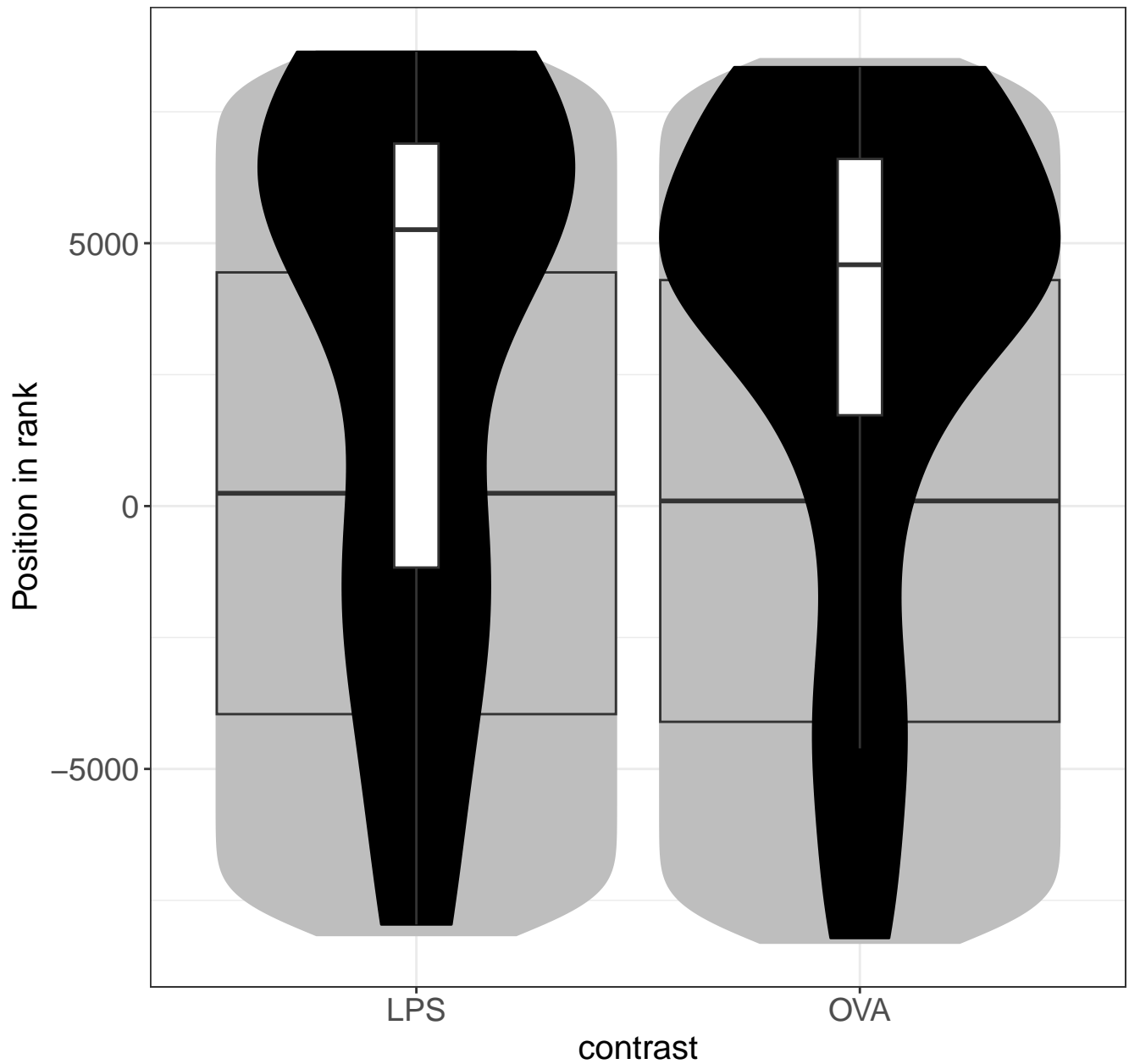
# SYNTHESIS OF IP3 AND IP4 IN THE CYTOSOL



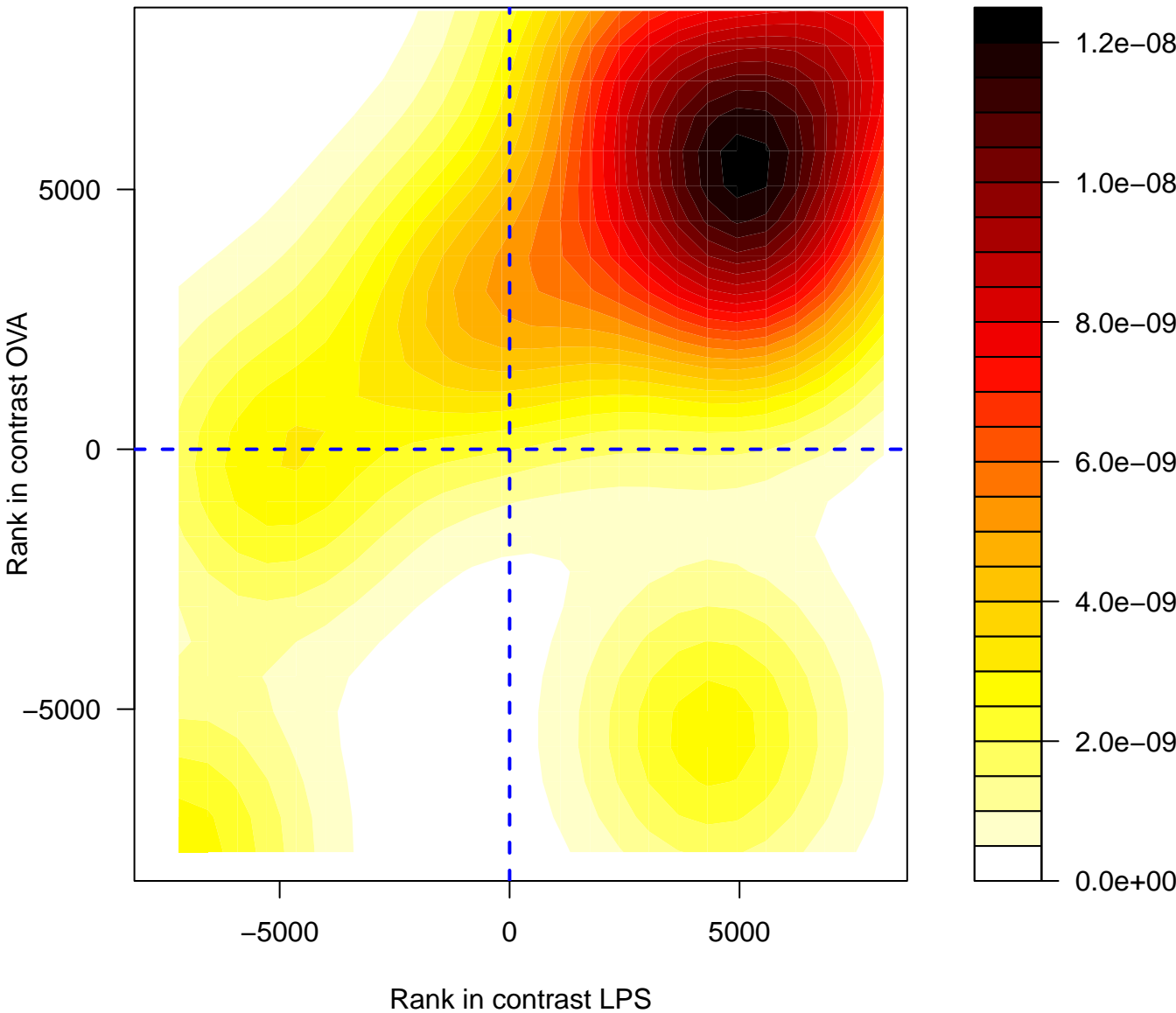
# SYNTHESIS OF IP3 AND IP4 IN THE CYTOSOL



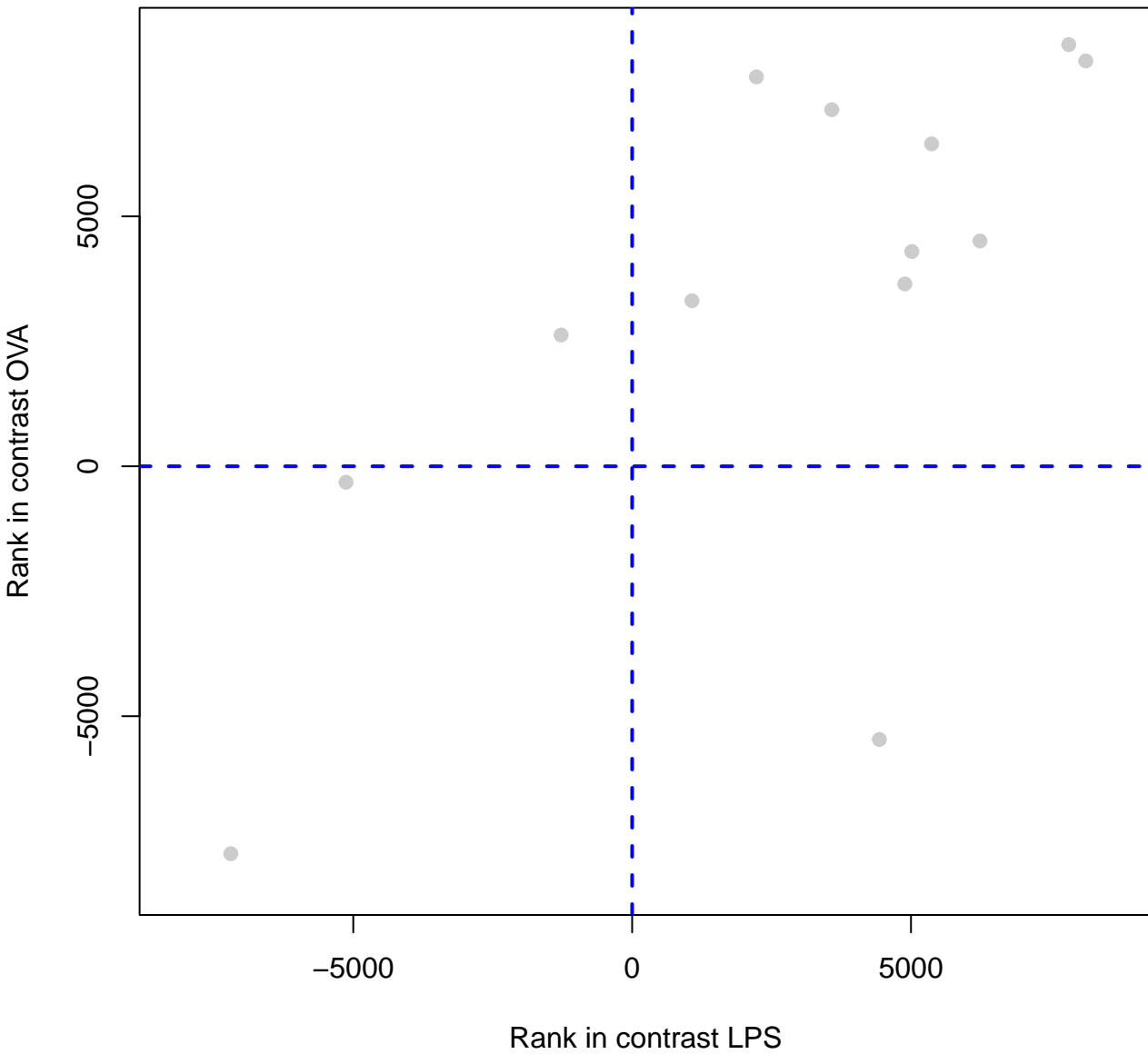
# SYNTHESIS OF IP3 AND IP4 IN THE CYTOSOL



# RUNX3 REGULATES NOTCH SIGNALING

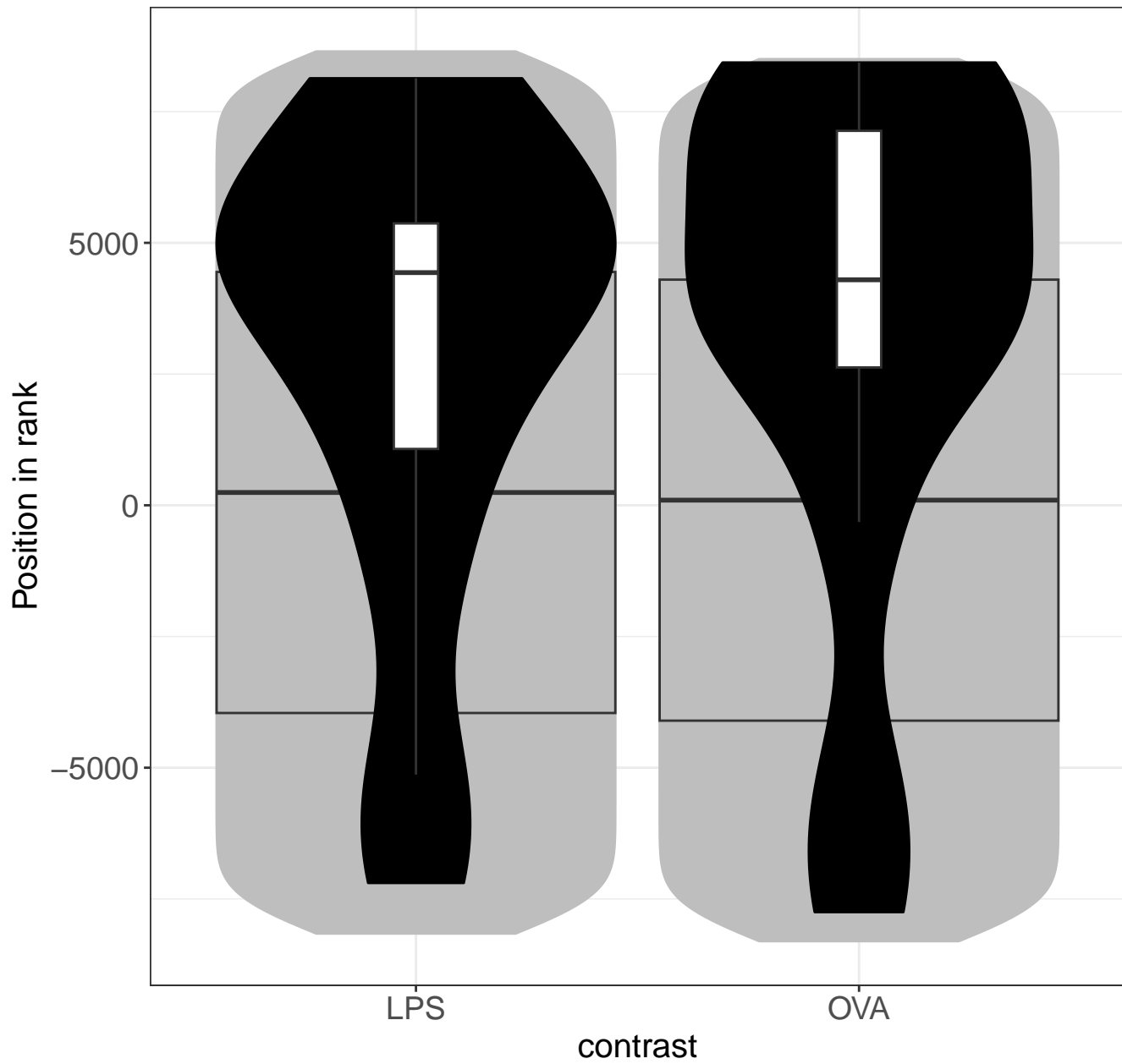


# RUNX3 REGULATES NOTCH SIGNALING

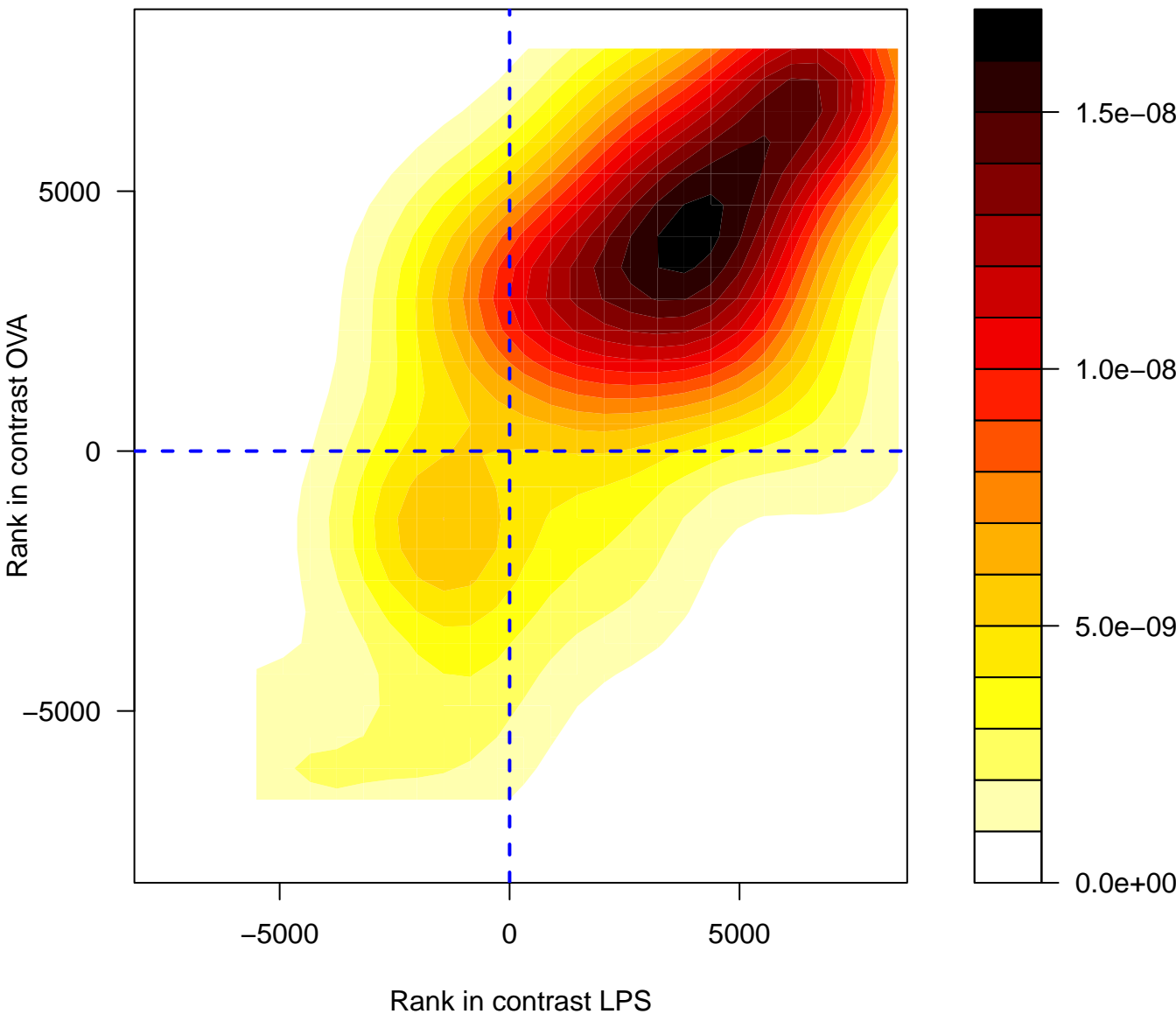




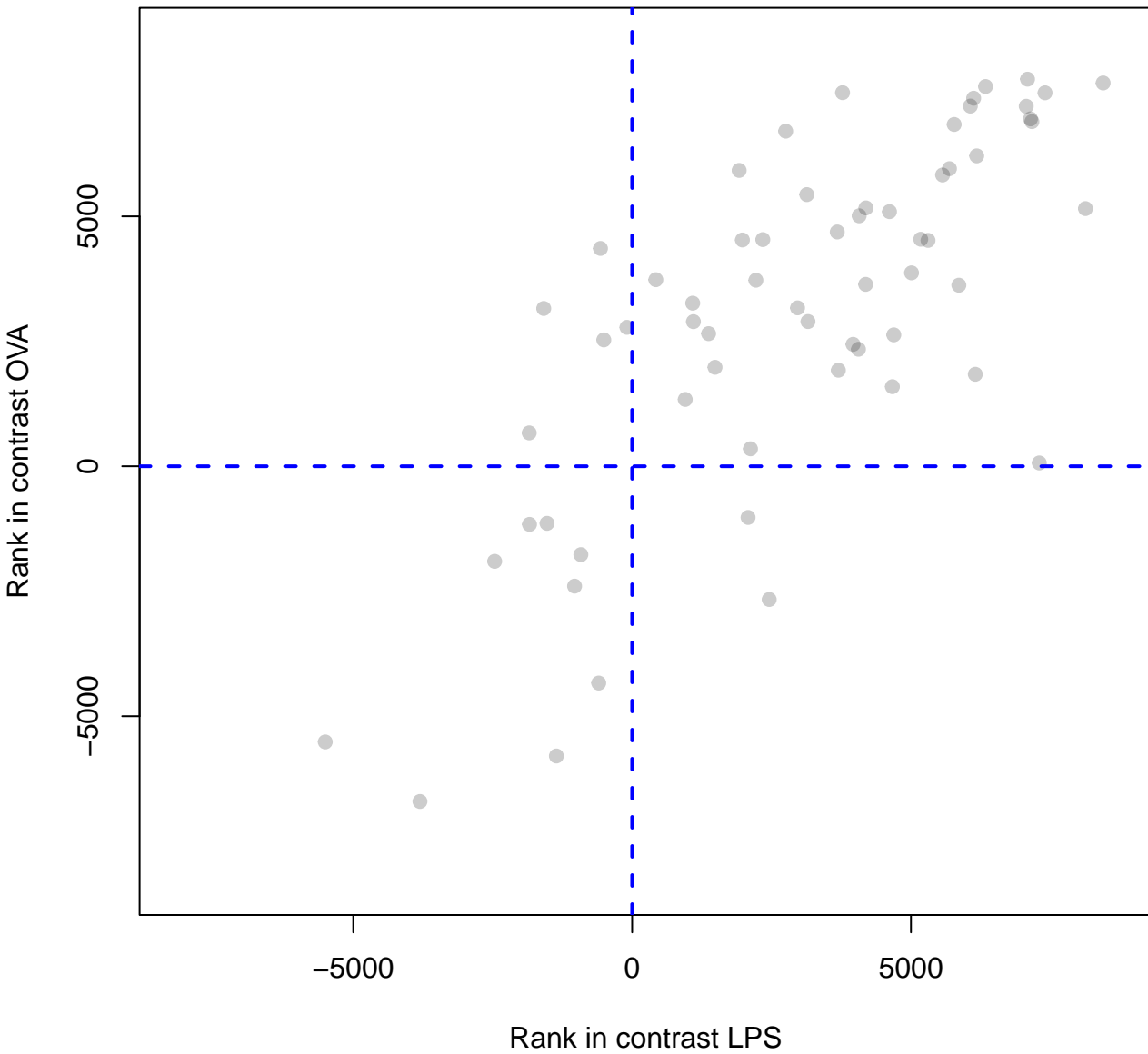
# RUNX3 REGULATES NOTCH SIGNALING



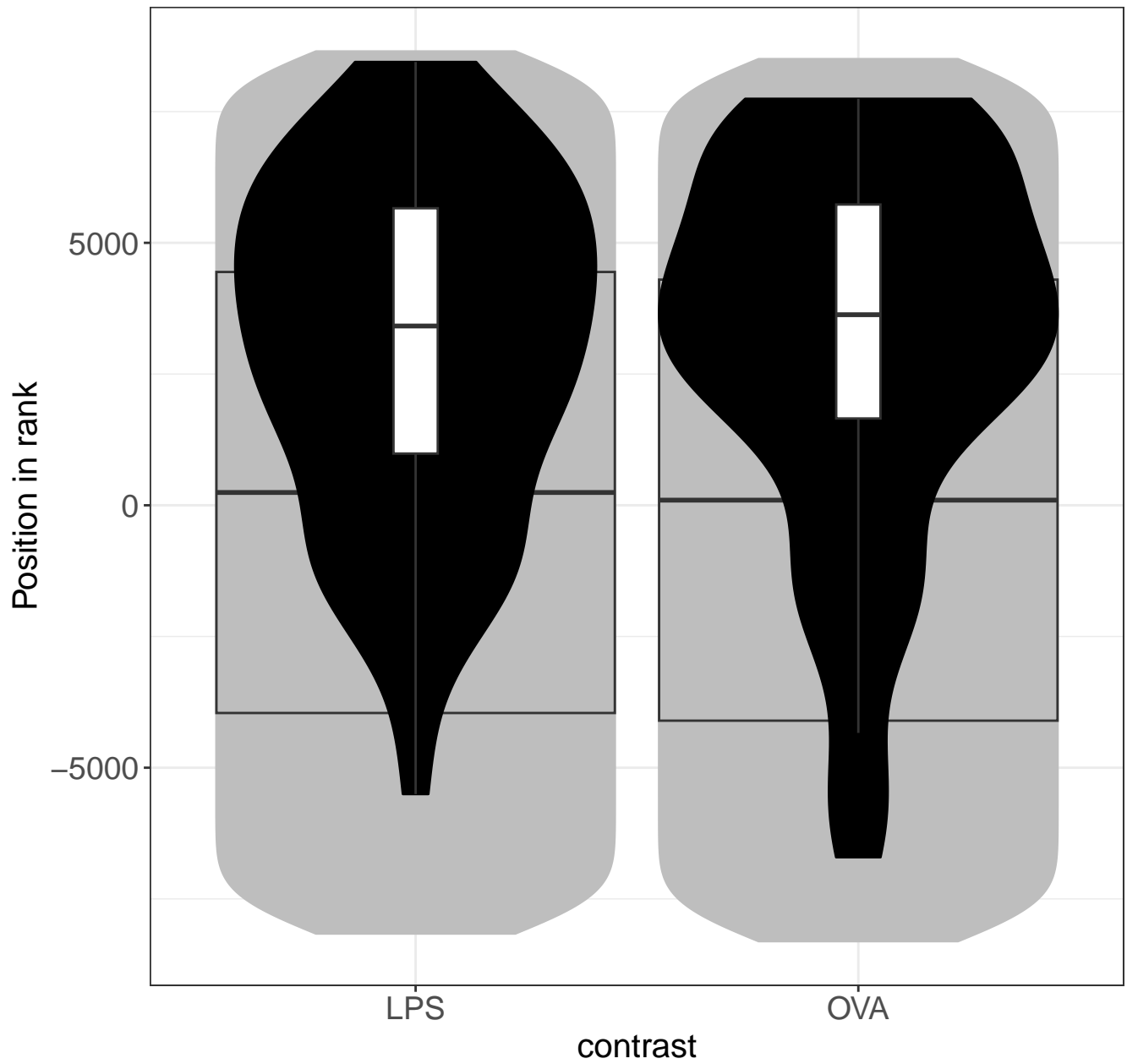
# COLLAGEN BIOSYNTHESIS AND MODIFYING ENZYME



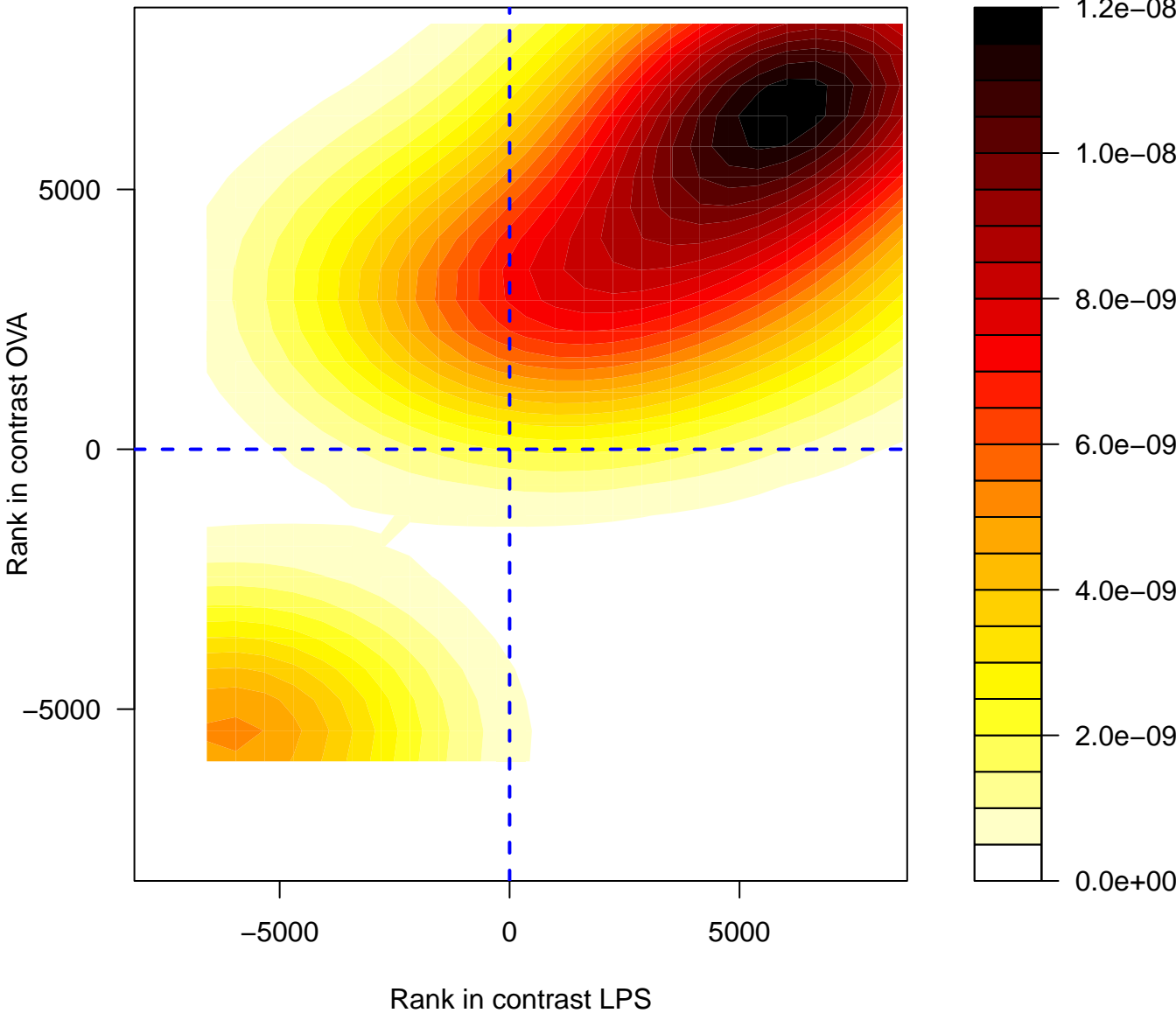
# COLLAGEN BIOSYNTHESIS AND MODIFYING ENZYMES



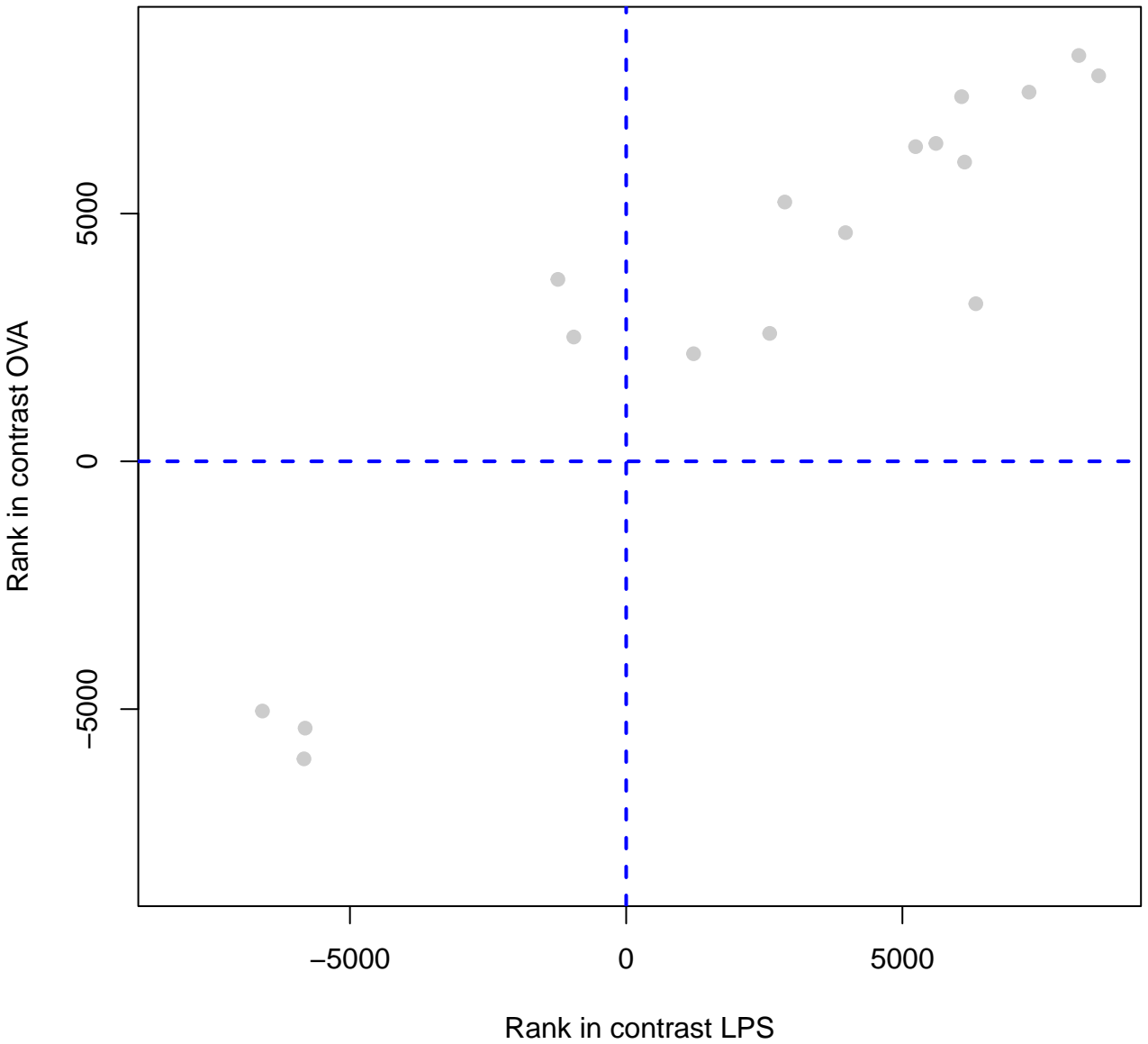
# COLLAGEN BIOSYNTHESES AND MODIFYING I



# INTERLEUKIN 37 SIGNALING



# INTERLEUKIN 37 SIGNALING



# INTERLEUKIN 37 SIGNALING

