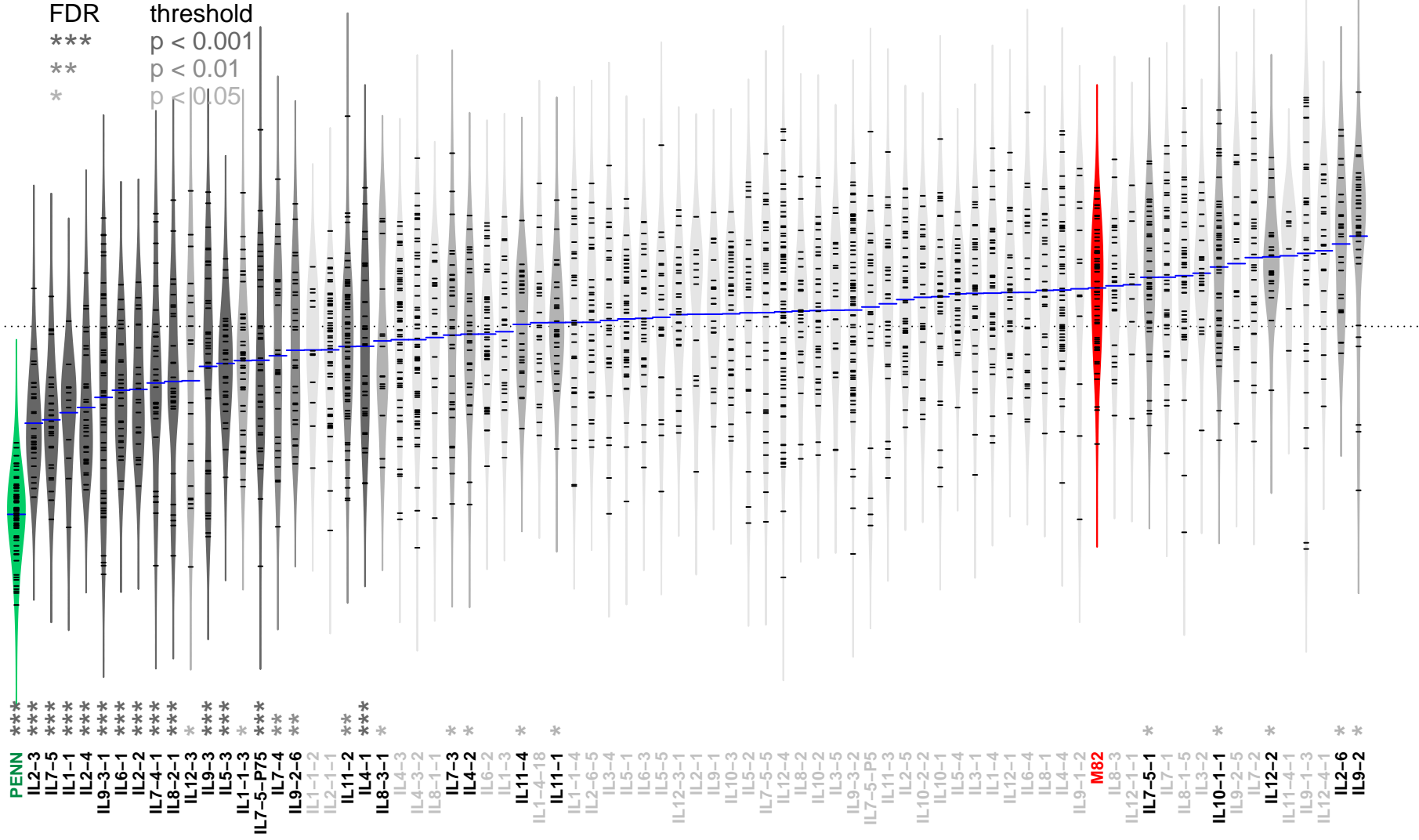


Root length from top to tip (cm)

10
8
6
4
2
0



Angle of tip of root (degrees)

100
80
60
40
20
0

IL11-4-1
IL12-4-1
IL6-4
IL3-5
IL7-5-1
IL1-1
IL5-4
IL9-1
IL10-3
M82
IL12-3
IL8-3
IL4-4
IL11-3
IL9-2-5
IL3-2
IL10-2
IL1-1-4
IL9-3-2
IL12-2
IL5-1
IL7-2
IL10-2-2
IL7-3
IL7-5-P5
IL10-1
IL1-1-3
IL4-3-2
IL1-4
IL6-1
IL9-2
IL6-3
IL7-1
IL12-3-1
IL2-5
IL5-5
IL6-2
IL5-2
IL4-3
IL8-1-1
IL8-1
IL10-1-1
IL2-4
IL9-3-1
IL1-4-18
IL9-3
IL1-3
IL2-6-5
IL3-4
IL8-2
IL2-1
IL8-3-1
IL12-1
IL12-1-1
IL3-1
IL11-1
IL2-6

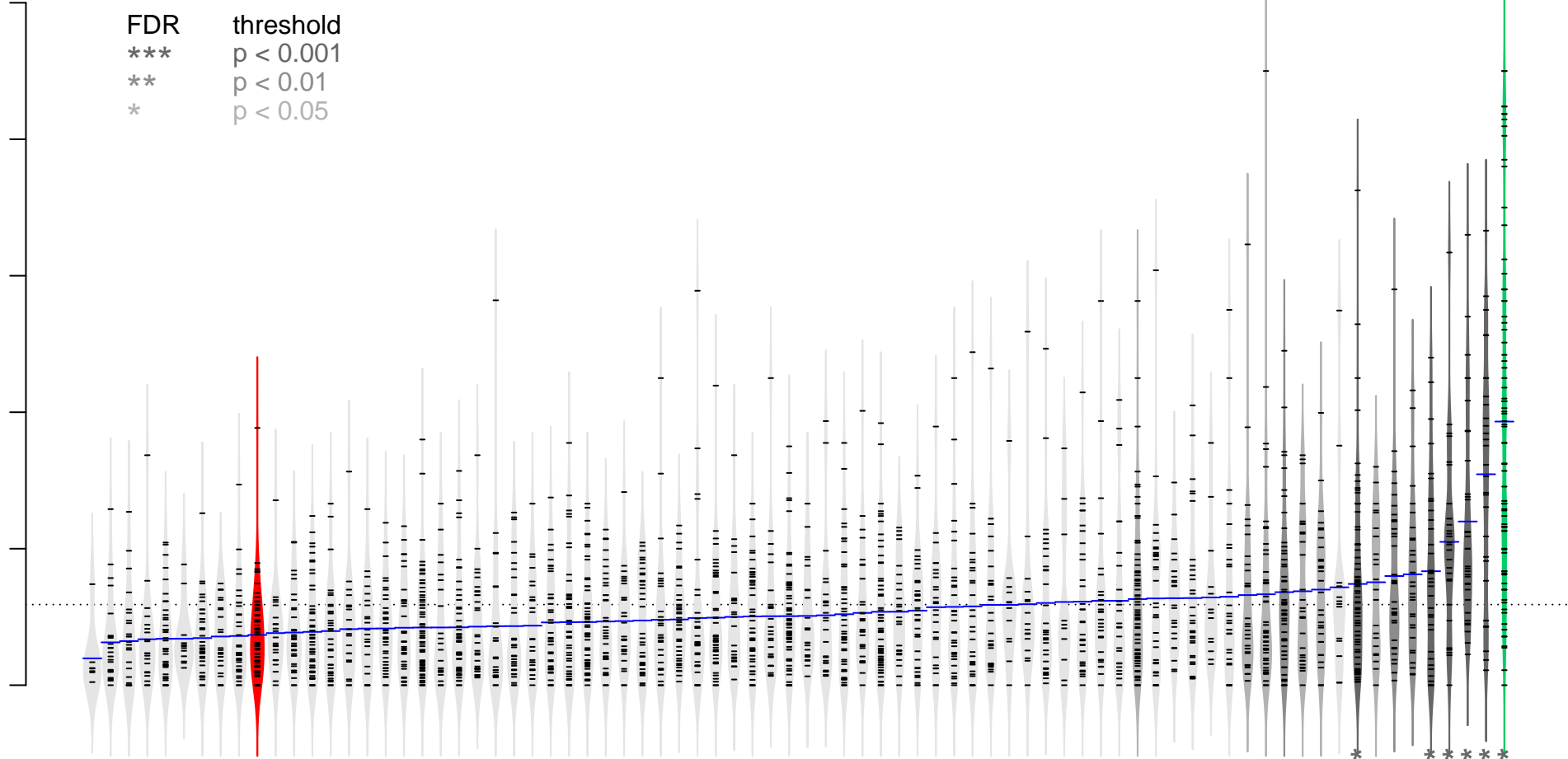
IL11-2
IL7-5-5
IL11-4
IL9-1-3
IL1-1-2
IL9-2-6

IL4-2
IL8-1-5
IL2-1-1
IL2-3
IL7-4
IL9-1-2
IL12-4
IL2-2
IL7-5-P75
IL5-3
IL4-1
IL7-5
IL7-4-1
IL8-2-1
PENN

FDR

**
*
threshold
 $p < 0.001$
 $p < 0.01$
 $p < 0.05$

tipAng: Angle of tip of root



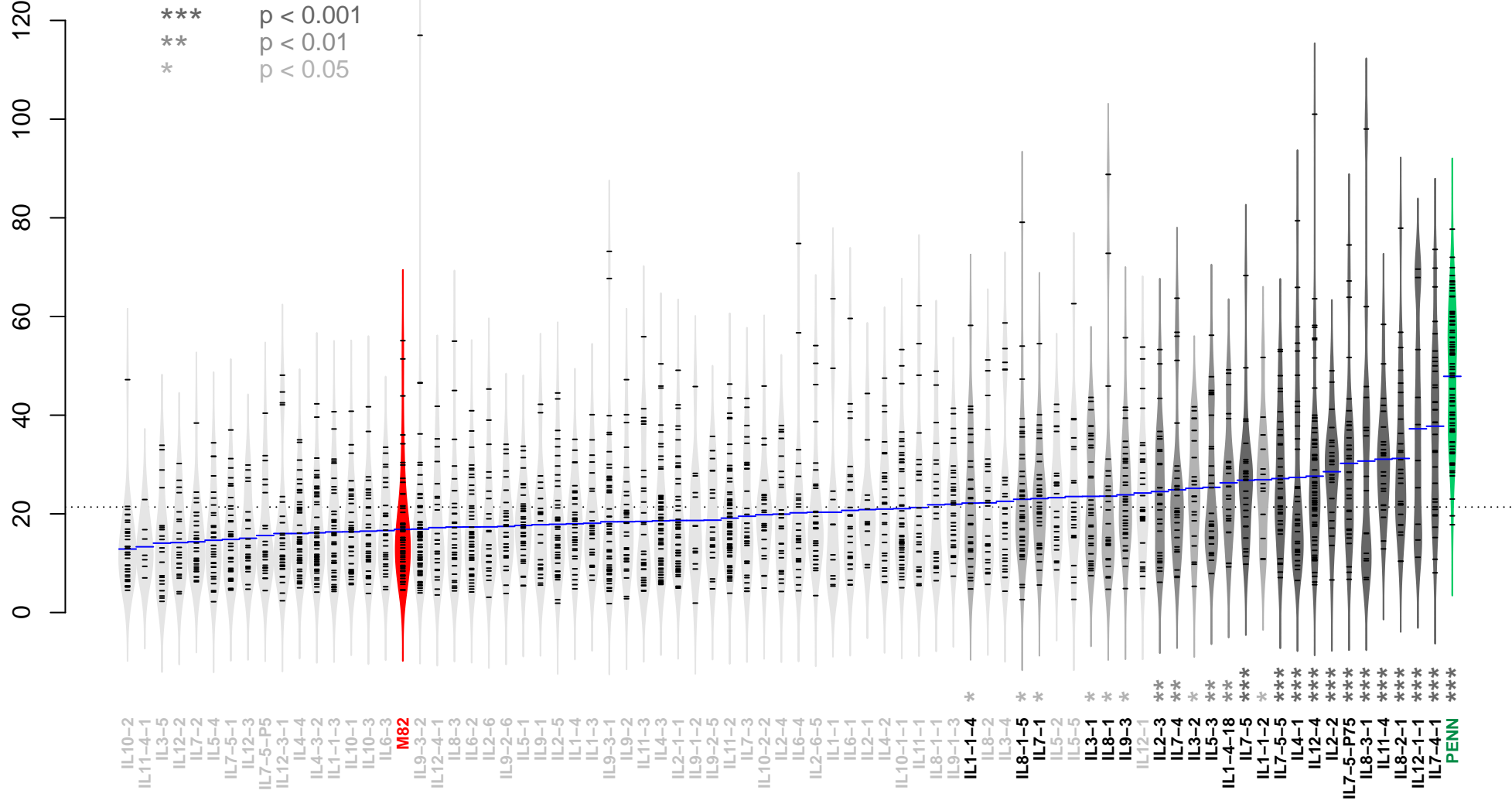
Average of absolute value of angle along entire root (degrees)

avgAbsAng: Average of absolute value of angle along entire root

FDR

**
*

threshold
 $p < 0.001$
 $p < 0.01$
 $p < 0.05$



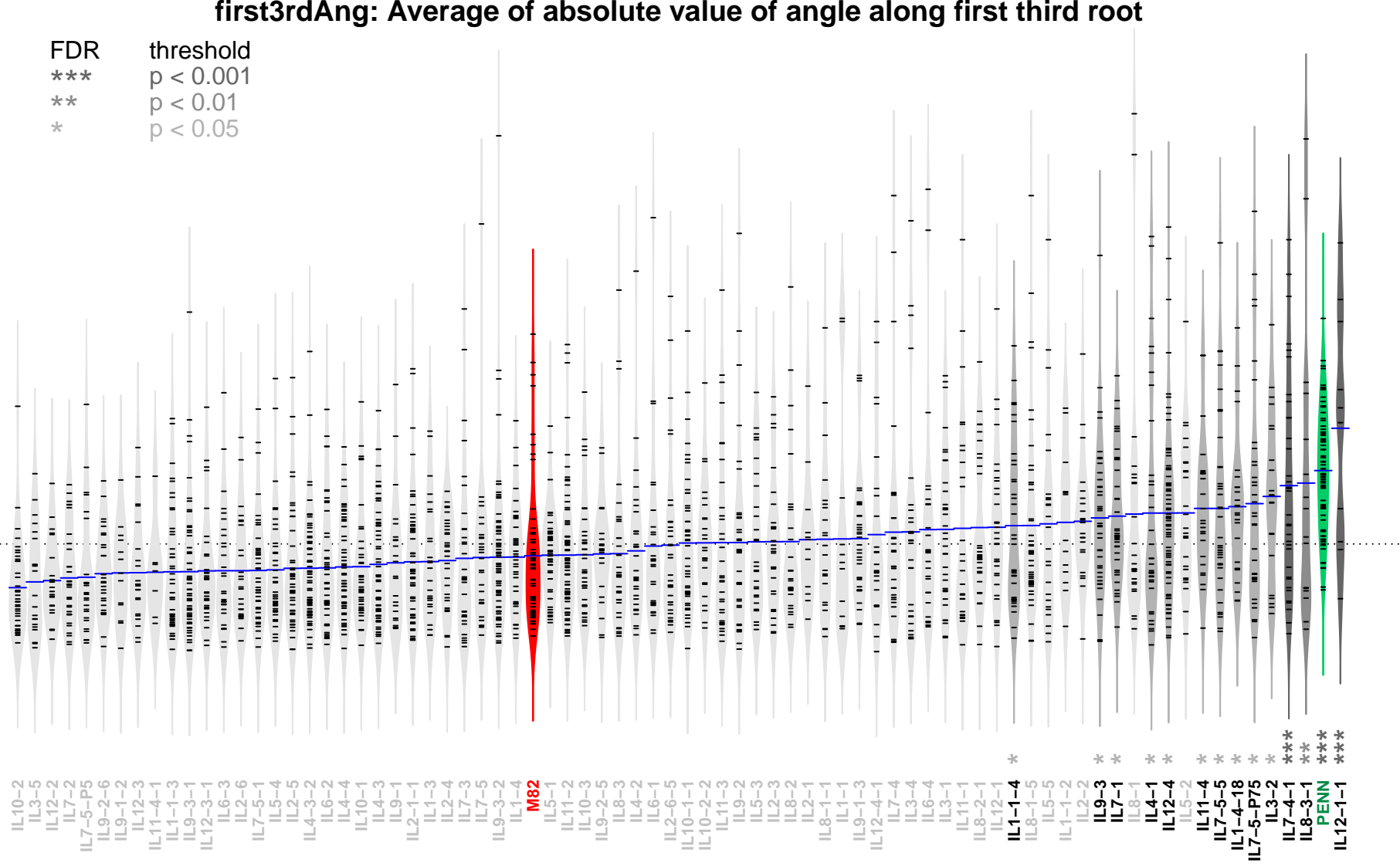
Average of absolute value of angle along first third root (degrees)

first3rdAng: Average of absolute value of angle along first third root

FDR

**
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threshold
p < 0.001
p < 0.01
p < 0.05



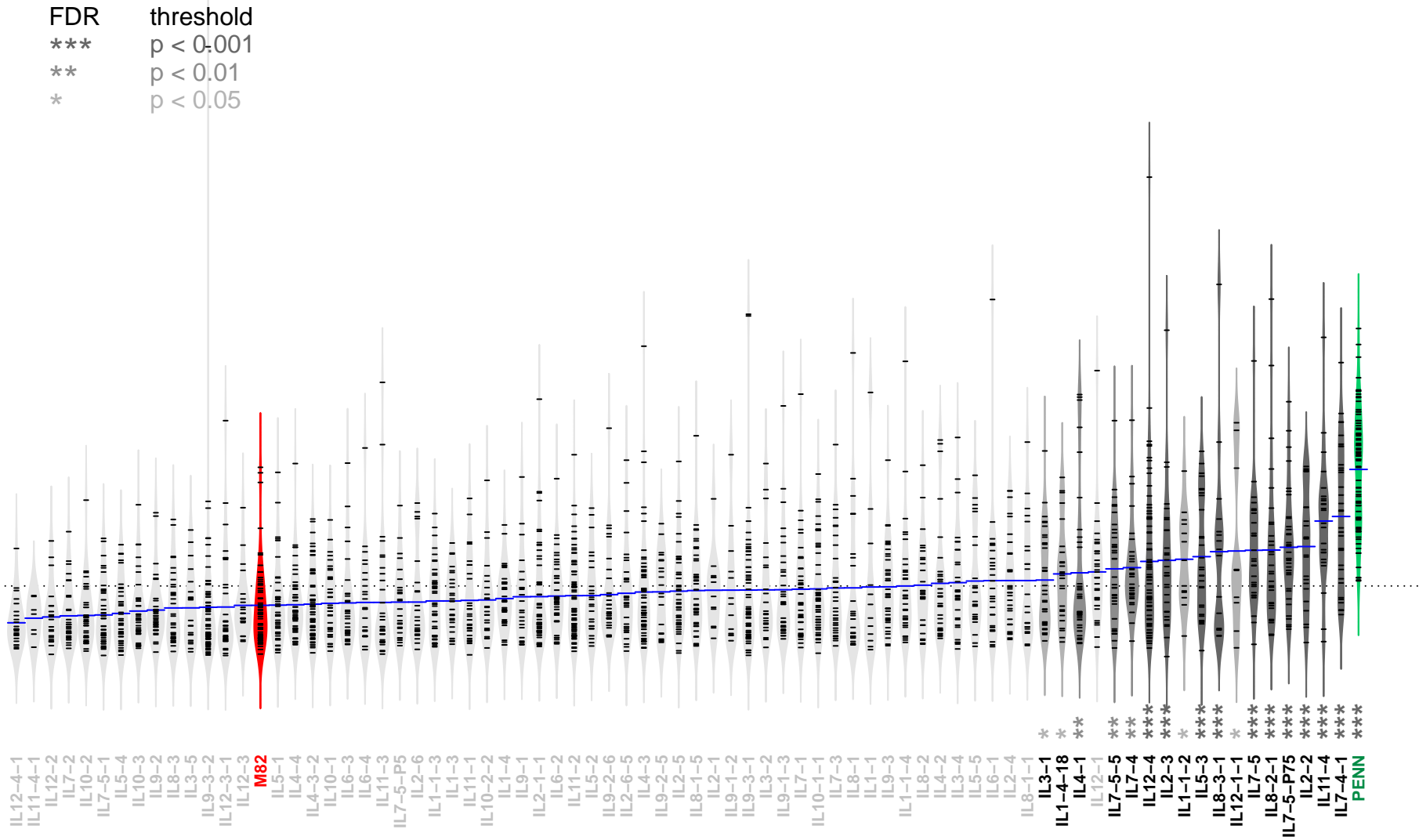
Average of absolute value of angle along middle third root (degrees)

mid3rdAng: Average of absolute value of angle along middle third root

FDR

**
*

threshold
 $p < 0.001$
 $p < 0.01$
 $p < 0.05$



Average of absolute value of angle along last third root (degrees)

last3rdAng: Average of absolute value of angle along last third root

FDR

**
*

threshold
 $p < 0.001$
 $p < 0.01$
 $p < 0.05$

