Electrode Layout
file= Kcnt1Y777H_20170817_500659_DIV15

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A1_13 A1_23 A1_33 A1_43   A2_13 A2_23 A2_33 A2_43   A3_13               A4_13 A4_23 A4_33 A4_43   A5_13 A5_23 A5_33 A5_43          A6_43   A7_13 A7_23 A7_33 A7_43   A8_13 A8_23 A8_33 A8_43
A1_12 A1_22 A1_32 A1_42   A2_12 A2_22 A2_32 A2_42                       A4_12 A4_22 A4_32 A4_42   A5_12 A5_22 A5_32 A5_42   A6_12 A6_22 A6_32 A6_42   A7_12 A7_22 A7_32 A7_42   A8_12 A8_22 A8_32 A8_42
A1_11 A1_21 A1_31 A1_41   A2_11 A2_21 A2_31 A2_41   A3_31               A4_11 A4_21 A4_31 A4_41   A5_11 A5_21 A5_31 A5_41   A6_21 A6_31 A6_41   A7_11 A7_21 A7_31 A7_41   A8_11 A8_21 A8_31 A8_41

B1_14 B1_24 B1_34 B1_44   B2_14 B2_24 B2_34 B2_44   B3_14 B3_24 B3_34   B4_14 B4_24 B4_34 B4_44   B5_14 B5_24 B5_34 B5_44   B6_24 B6_34   B7_14 B7_24 B7_34 B7_44   B8_14
      B1_23 B1_33 B1_43   B2_13 B2_23 B2_33 B2_43   B3_13 B3_23 B3_33   B4_13 B4_23 B4_33 B4_43   B5_13 B5_23 B5_33 B5_43   B6_13 B6_23 B6_33 B6_43   B7_13 B7_23 B7_33 B7_43   B8_13        B8_43
B1_12 B1_22 B1_32 B1_42   B2_12 B2_22 B2_32 B2_42   B3_12               B4_12 B4_22 B4_32 B4_42   B5_12 B5_22 B5_32 B5_42   B6_22 B6_32 B6_42   B7_12 B7_22 B7_32 B7_42   B8_22
      B1_31             B2_11 B2_21 B2_31 B2_41   B3_11 B3_21 B3_31 B3_41   B4_11 B4_21 B4_31 B4_41   B5_11 B5_21 B5_31 B5_41   B6_21 B6_31 B6_41   B7_21 B7_31 B7_41   B8_21   B8_41

C1_14 C1_24 C1_34 C1_44   C2_14 C2_24 C2_34 C2_44   C3_14 C3_24 C3_34   C4_14 C4_24 C4_34 C4_44   C5_14 C5_24 C5_34 C5_44   C6_14 C6_24        C6_44   C7_14 C7_24 C7_34 C7_44   C8_14 C8_24 C8_34 C8_44
C1_13 C1_23 C1_33 C1_43   C2_13 C2_23 C2_33 C2_43   C3_13 C3_23         C3_43   C4_13 C4_23 C4_33 C4_43   C5_13 C5_23 C5_33 C5_43   C6_13        C6_33   C7_13 C7_23 C7_33 C7_43   C8_13 C8_23 C8_33 C8_43
C1_12 C1_22 C1_32 C1_42   C2_12 C2_22 C2_32 C2_42   C3_12 C3_22         C3_42   C4_12 C4_22 C4_32 C4_42   C5_12 C5_22 C5_32 C5_42               C6_42   C7_12 C7_22 C7_32 C7_42   C8_12 C8_22 C8_32 C8_42
C1_11 C1_21 C1_31 C1_41   C2_11 C2_21 C2_31 C2_41   C3_11               C4_11 C4_21 C4_31 C4_41   C5_11 C5_21 C5_31 C5_41          C6_31 C6_41   C7_11 C7_21 C7_31 C7_41   C8_11 C8_21 C8_31 C8_41

D1_14 D1_24 D1_34 D1_44   D2_14 D2_24 D2_34 D2_44         D3_24 D3_34 D3_44   D4_14 D4_24 D4_34 D4_44   D5_14 D5_24 D5_34 D5_44   D6_24 D6_34 D6_44   D7_14 D7_24 D7_34 D7_44   D8_14 D8_24 D8_34 D8_44
D1_13 D1_23 D1_33 D1_43   D2_13 D2_23 D2_33 D2_43   D3_13         D3_33 D3_43   D4_13 D4_23 D4_33 D4_43   D5_13 D5_23 D5_33 D5_43   D6_13 D6_23 D6_33 D6_43   D7_13 D7_23 D7_33 D7_43   D8_13 D8_23 D8_33 D8_43
D1_12 D1_22 D1_32 D1_42   D2_12 D2_22 D2_32 D2_42   D3_12 D3_22         D3_42   D4_12 D4_22 D4_32 D4_42   D5_12 D5_22 D5_32 D5_42   D6_12 D6_22 D6_32 D6_42   D7_12 D7_22 D7_32 D7_42   D8_12 D8_22 D8_32 D8_42
D1_11 D1_21 D1_31 D1_41   D2_11 D2_21 D2_31 D2_41   D3_11         D3_31 D3_41   D4_11 D4_21 D4_31 D4_41   D5_11 D5_21 D5_31 D5_41   D6_11 D6_21 D6_31 D6_41   D7_11 D7_21 D7_31 D7_41   D8_11 D8_21 D8_31 D8_41

      E1_34             E2_14 E2_24 E2_34 E2_44   E3_14               E4_14 E4_24 E4_34 E4_44   E5_14 E5_24 E5_34 E5_44   E6_14 E6_24 E6_34 E6_44   E7_14 E7_24 E7_34 E7_44
E1_13       E1_33         E2_13 E2_23 E2_33 E2_43   E3_13               E4_13 E4_23 E4_33 E4_43   E5_13 E5_23 E5_33 E5_43          E6_23 E6_33 E6_43   E7_13 E7_23 E7_33 E7_43   E8_13       E8_33
E1_12 E1_22 E1_32 E1_42   E2_12 E2_22 E2_32 E2_42   E3_22               E4_12 E4_22 E4_32 E4_42   E5_12 E5_22 E5_32 E5_42   E6_12        E6_32 E6_42   E7_12 E7_22 E7_32 E7_42   E8_22
      E1_31 E1_41         E2_11 E2_21 E2_31 E2_41   E3_21 E3_31         E4_11 E4_21 E4_31 E4_41   E5_11 E5_21 E5_31 E5_41   E6_11 E6_21 E6_31 E6_41   E7_11 E7_21 E7_31 E7_41          E8_31

F1_14 F1_24 F1_34 F1_44   F2_14 F2_24 F2_34 F2_44                       F4_14 F4_24 F4_34 F4_44   F5_14 F5_24 F5_34         F6_14        F6_34 F6_44   F7_14 F7_24 F7_34 F7_44   F8_14 F8_24 F8_34 F8_44
F1_13 F1_23 F1_33 F1_43   F2_13 F2_23 F2_33 F2_43   F3_23               F4_13 F4_23 F4_33 F4_43   F5_13 F5_23 F5_33 F5_43          F6_23 F6_33 F6_43   F7_13 F7_23 F7_33 F7_43   F8_13 F8_23 F8_33 F8_43
F1_12 F1_22 F1_32 F1_42   F2_12 F2_22 F2_32 F2_42   F3_12 F3_22         F4_12 F4_22 F4_32 F4_42   F5_12 F5_22 F5_32 F5_42   F6_12 F6_22 F6_32   F7_12 F7_22 F7_32 F7_42   F8_12 F8_22 F8_32 F8_42
F1_11 F1_21 F1_31 F1_41   F2_11 F2_21 F2_31 F2_41   F3_21 F3_31 F3_41   F4_11 F4_21 F4_31 F4_41   F5_11 F5_21 F5_31 F5_41   F6_11 F6_21 F6_31 F6_41   F7_11 F7_21 F7_31 F7_41   F8_11 F8_21 F8_31 F8_41
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spacing (μm)

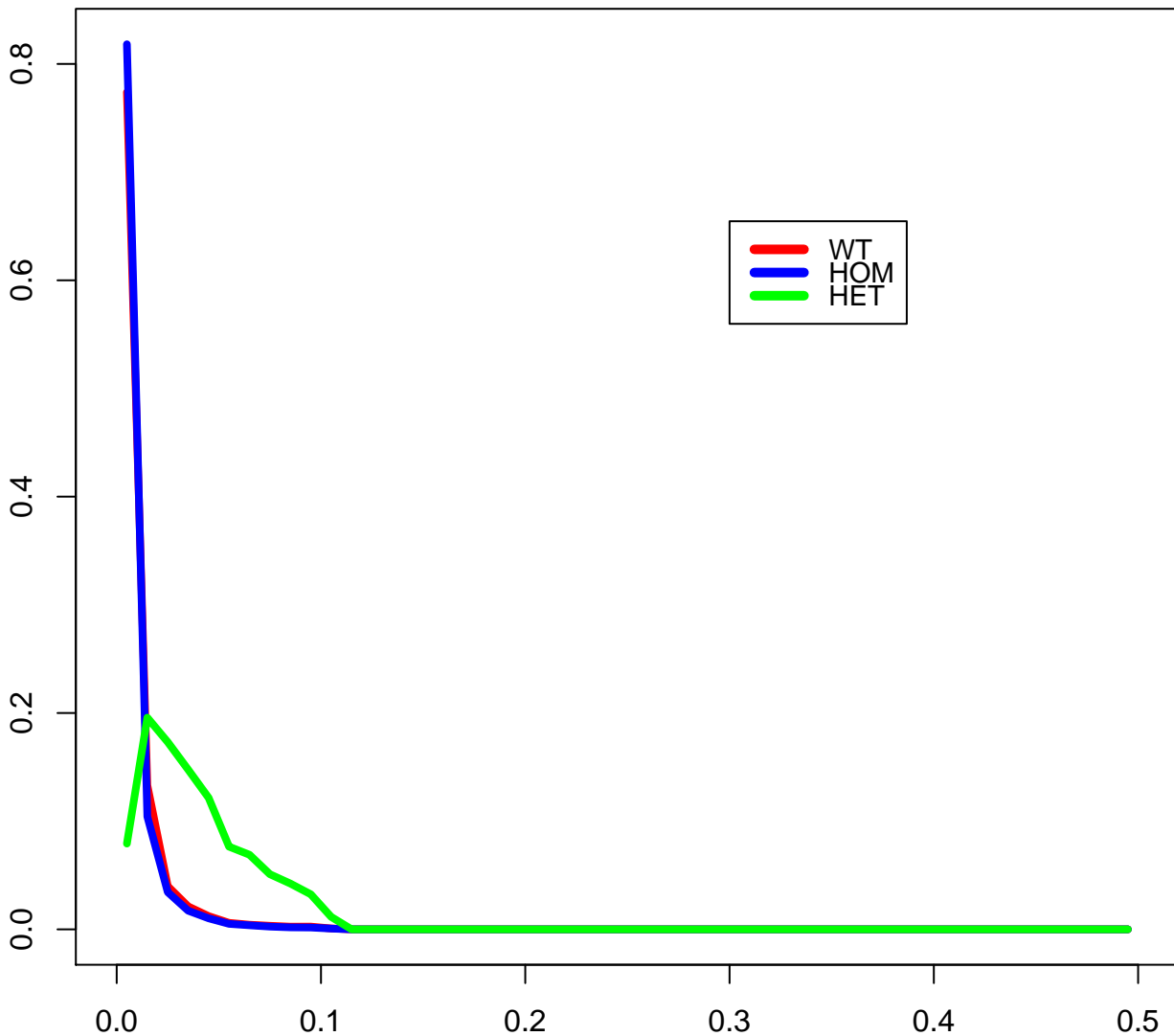**IBI by treatment**

K–S test for WT vs. HOM : 0.28, for: IBI
K–S test for WT vs. HET : 1e–07, for: IBI
K–S test for HOM vs. HET : 2.3e–06, for: IBI
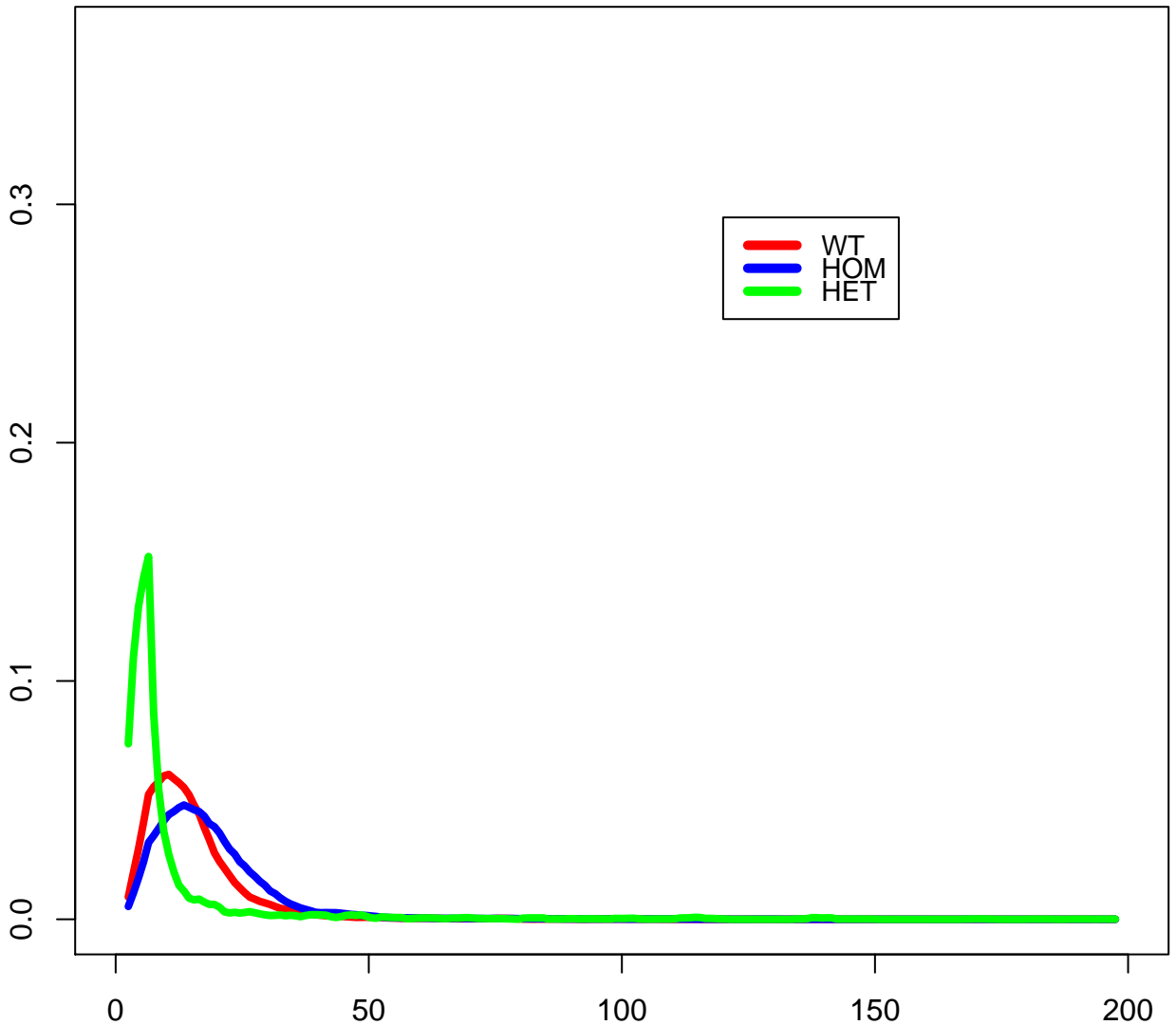
ISI by treatment

K–S test for WT vs. HOM : 1, for: ISI
K–S test for WT vs. HET : 0.71, for: ISI
K–S test for HOM vs. HET : 0.71, for: ISI
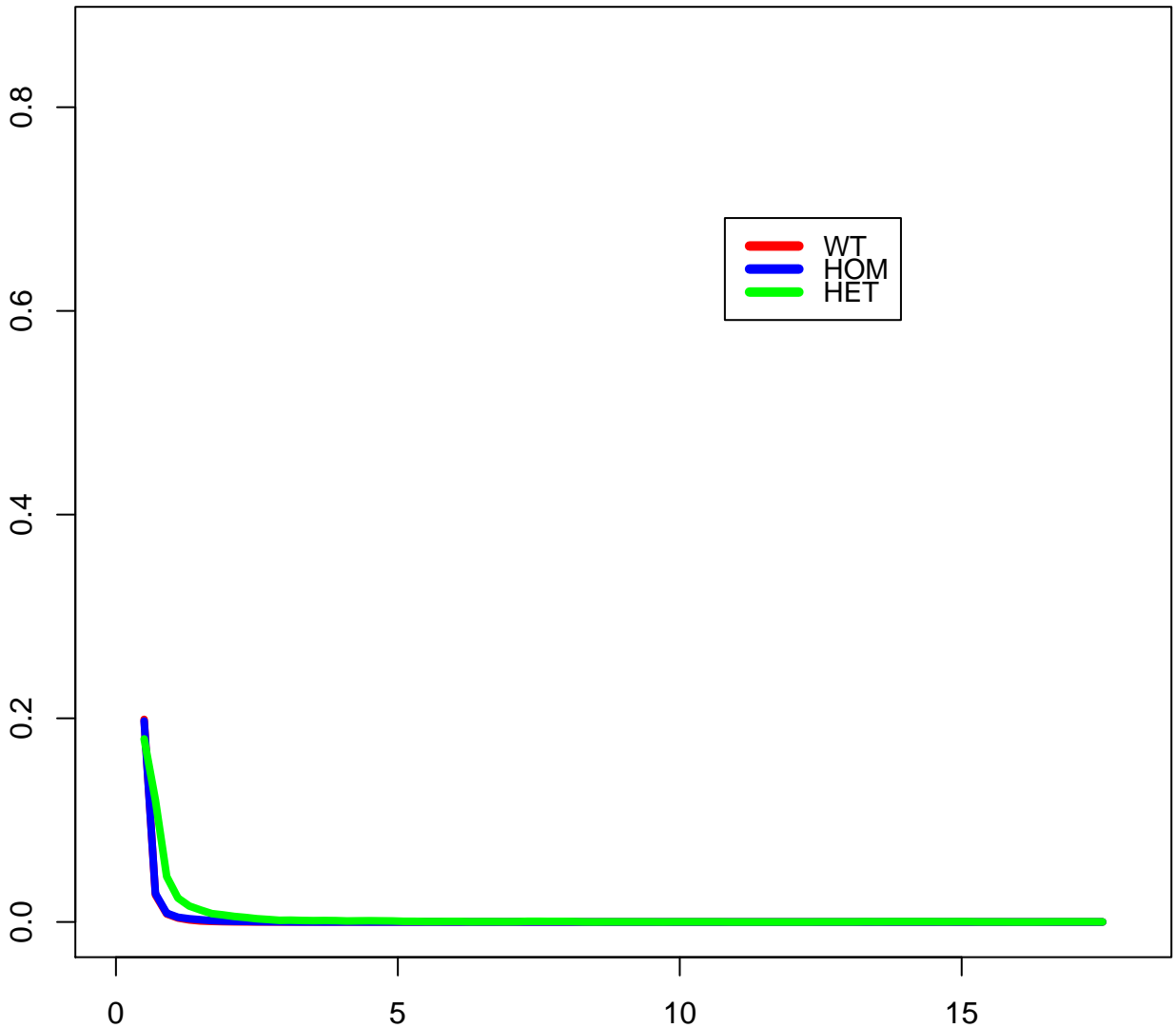
nspikesInBurst by treatment

K−S test for WT vs. HOM : 0.0031, for: nspikesInBurst
K−S test for WT vs. HET : 0.068, for: nspikesInBurst
K−S test for HOM vs. HET : 0.0044, for: nspikesInBurst

duration by treatment

K–S test for WT vs. HOM : 1, for: duration
K–S test for WT vs. HET : 5.3e−06, for: duration
K–S test for HOM vs. HET : 2.3e−05, for: duration

spikesDensityInBurst by treatment
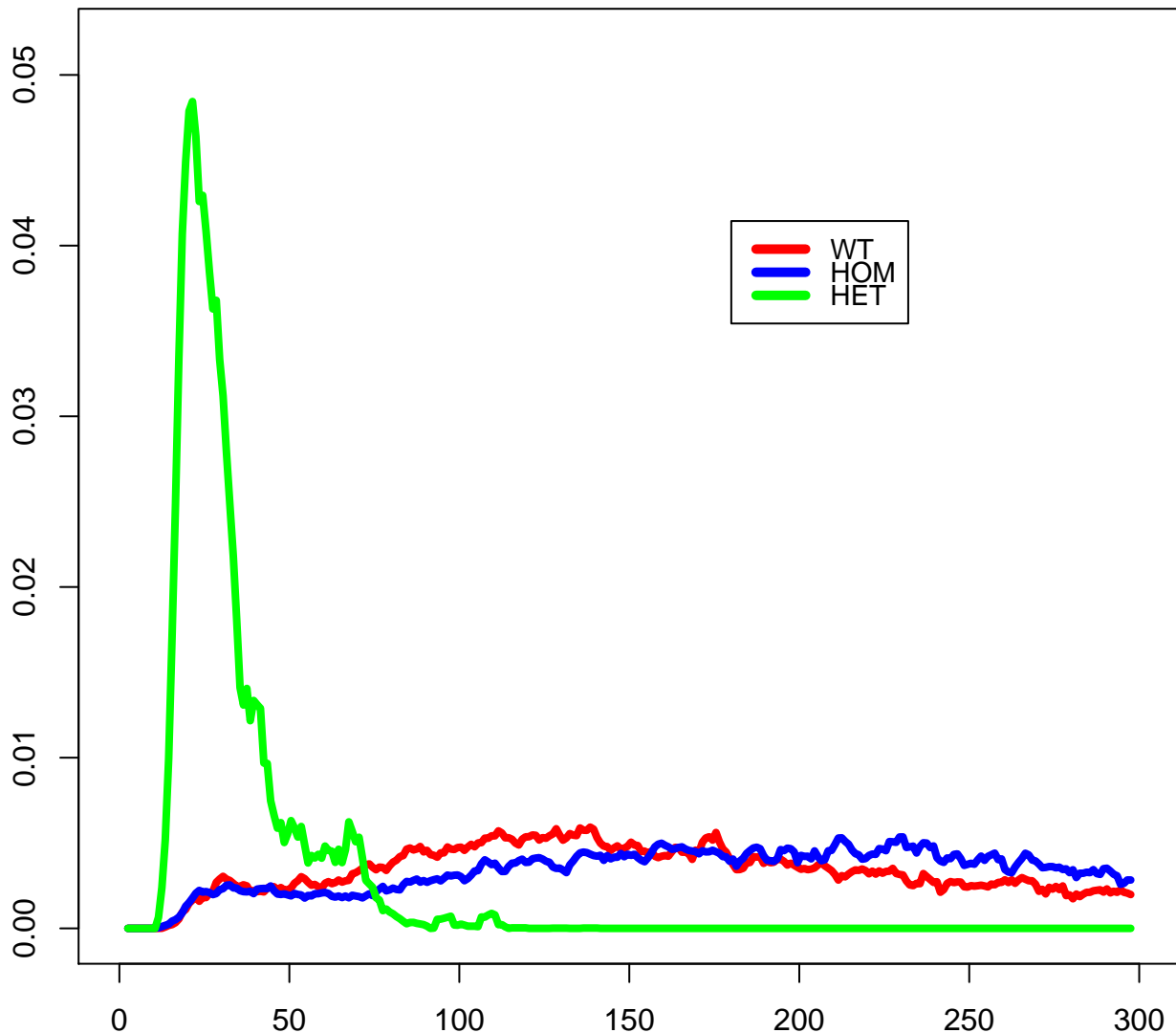
K−S test for WT vs. HOM : 0.29, for: spikesDensityInBurst
K−S test for WT vs. HET : 0, for: spikesDensityInBurst
K−S test for HOM vs. HET : 0, for: spikesDensityInBurst

Mean Firing Rate by Plate (Hz)

time (s)
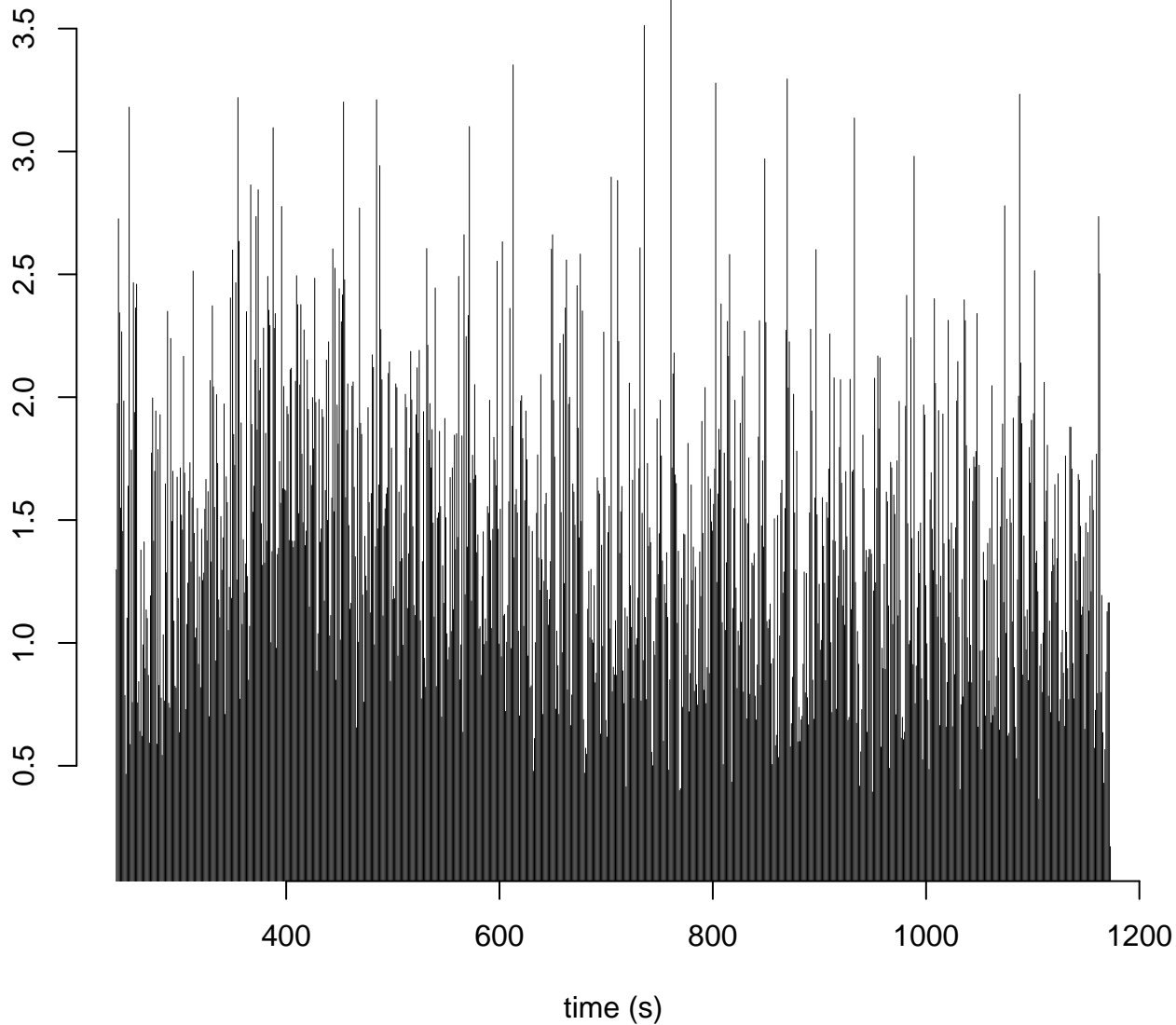
Mean Firing Rate (Hz) by Channels within Wells
file= Kcnt1Y777H_20170817_500659_DIV15

Mean Firing Rate (Hz)

Channels within well
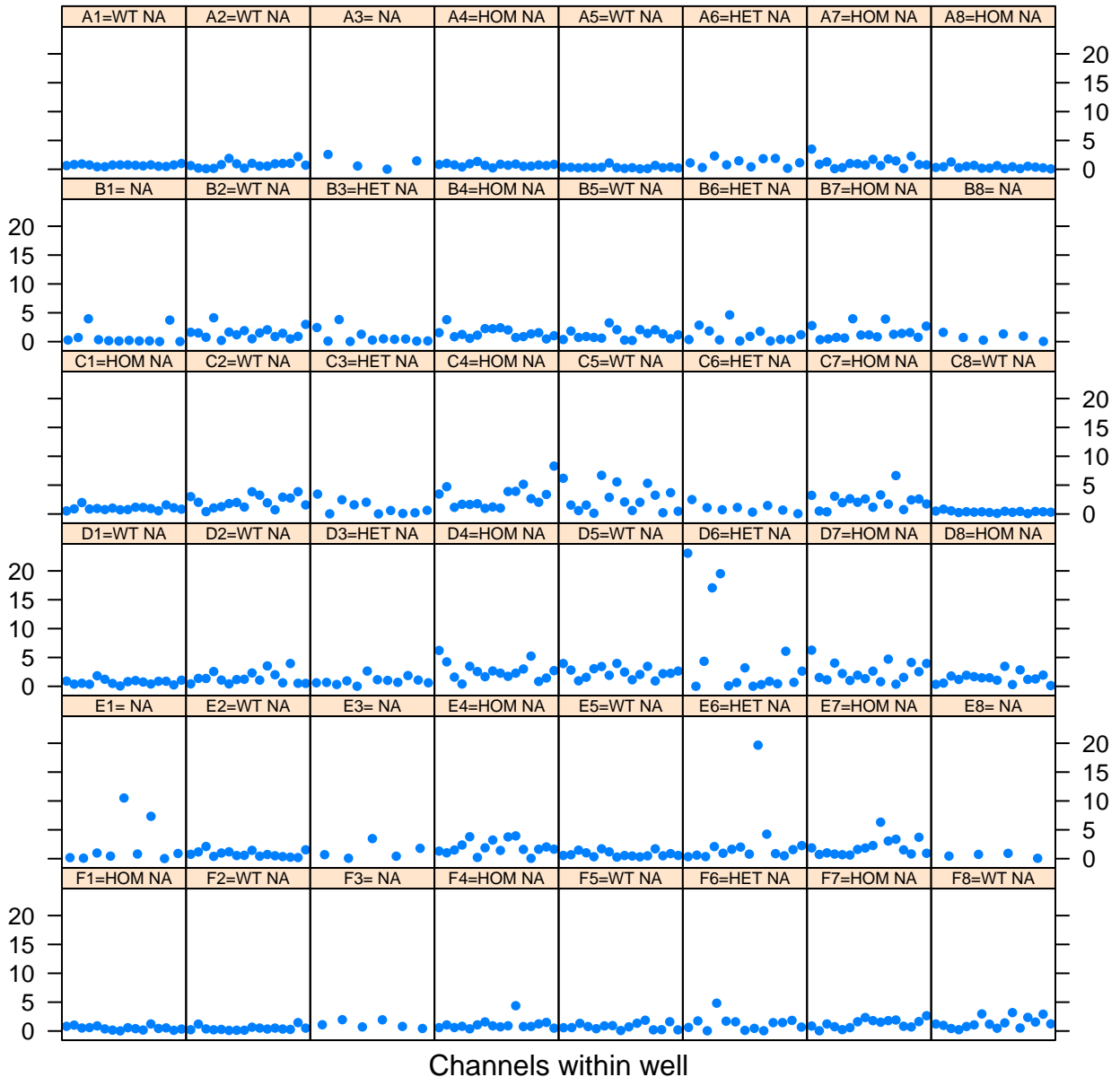
Mean Duration of Burst (s) by Channels within Wells
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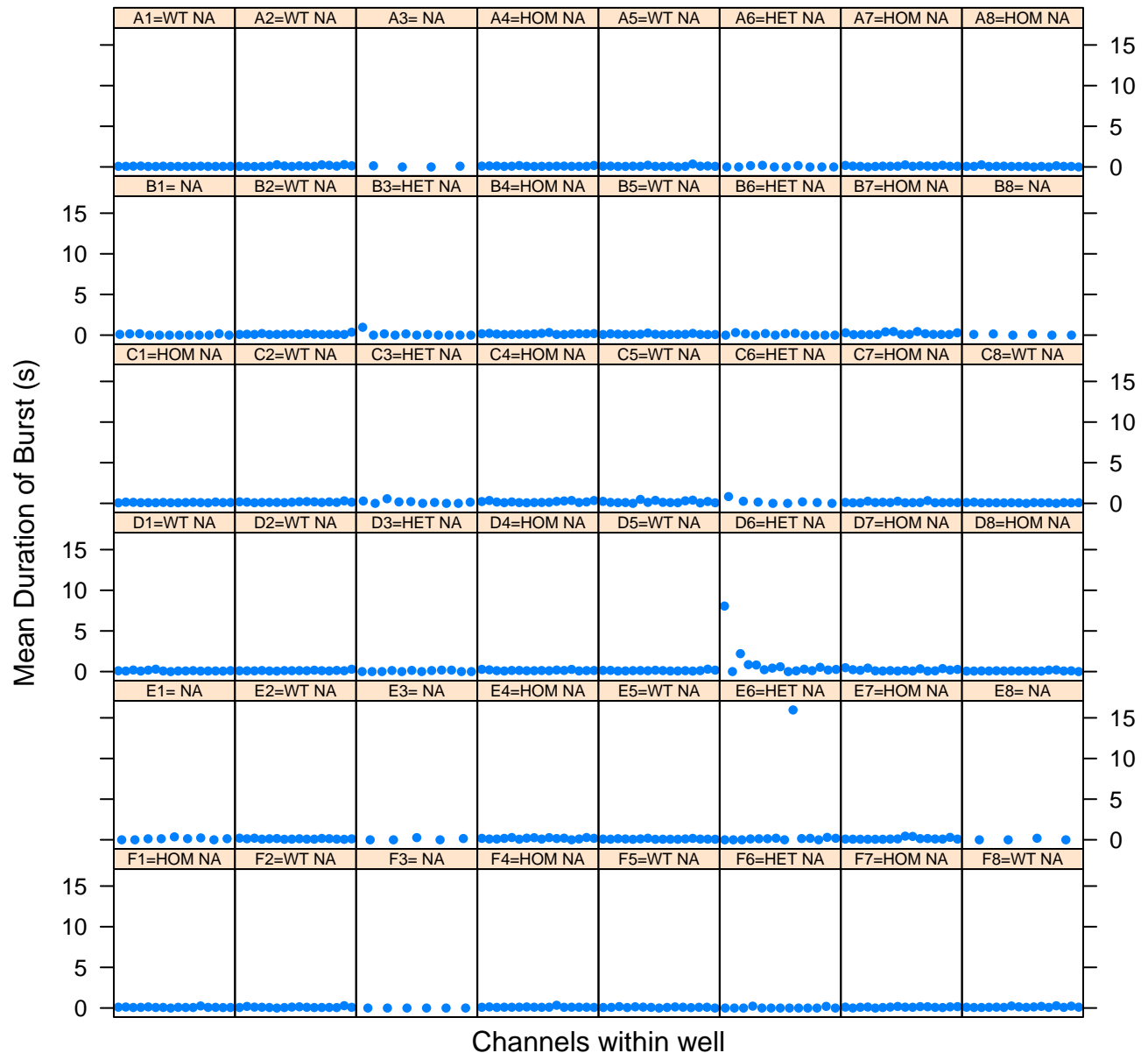
Number of Bursts by Channels within Wells
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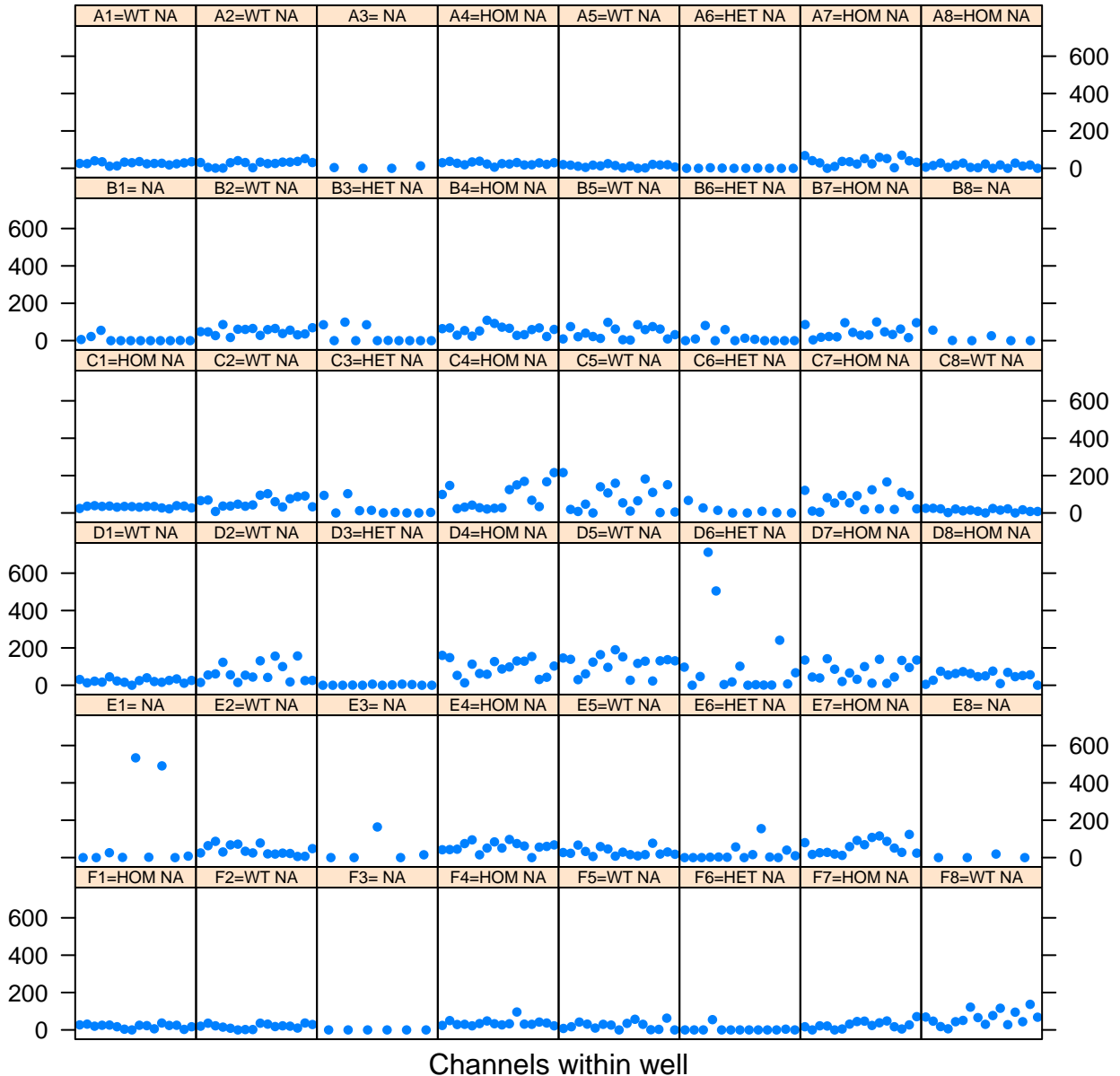
Mean IBIs (ms) by Channels within Wells
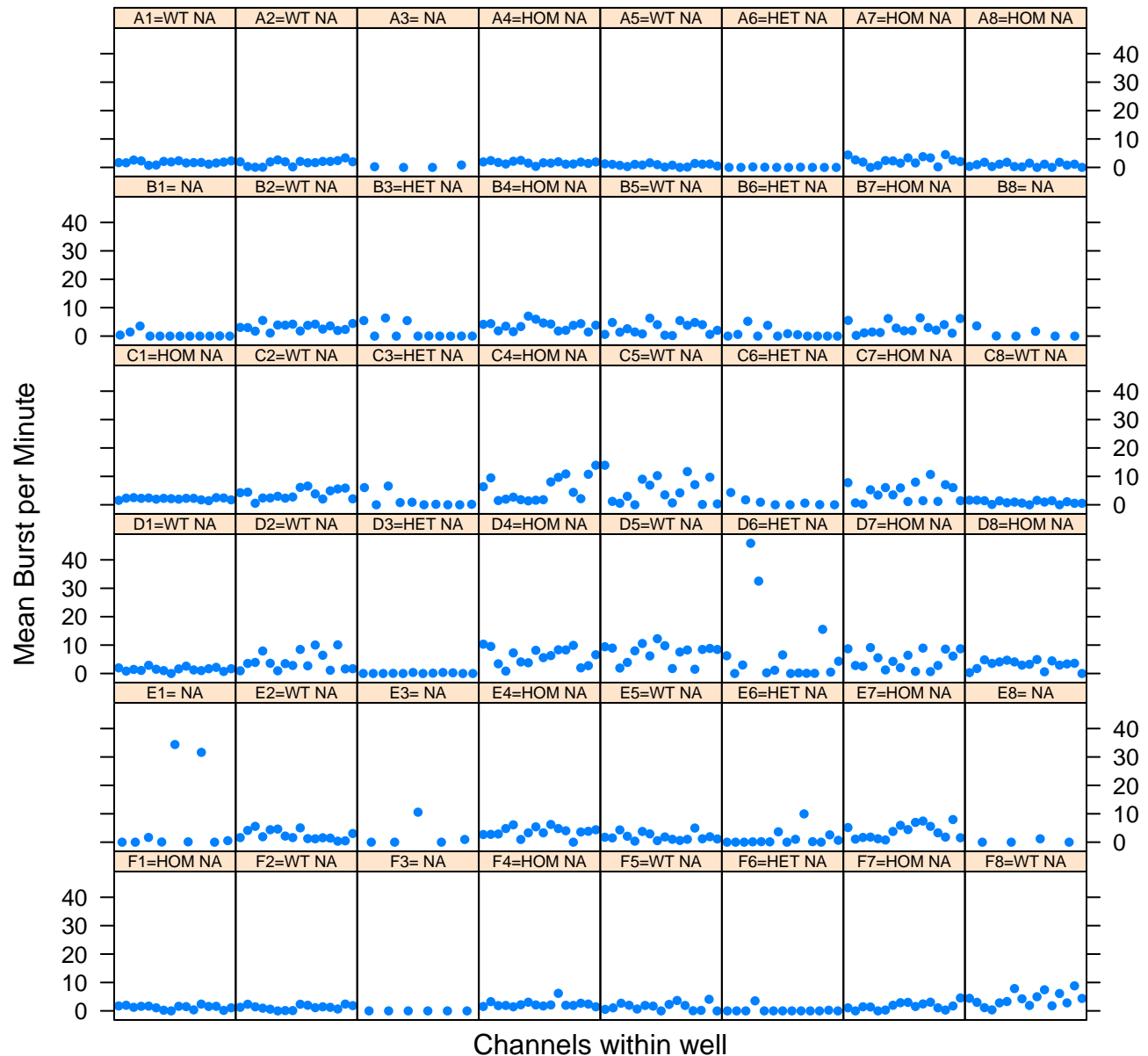## file= Kcnt1Y777H_20170817_500659_DIV15
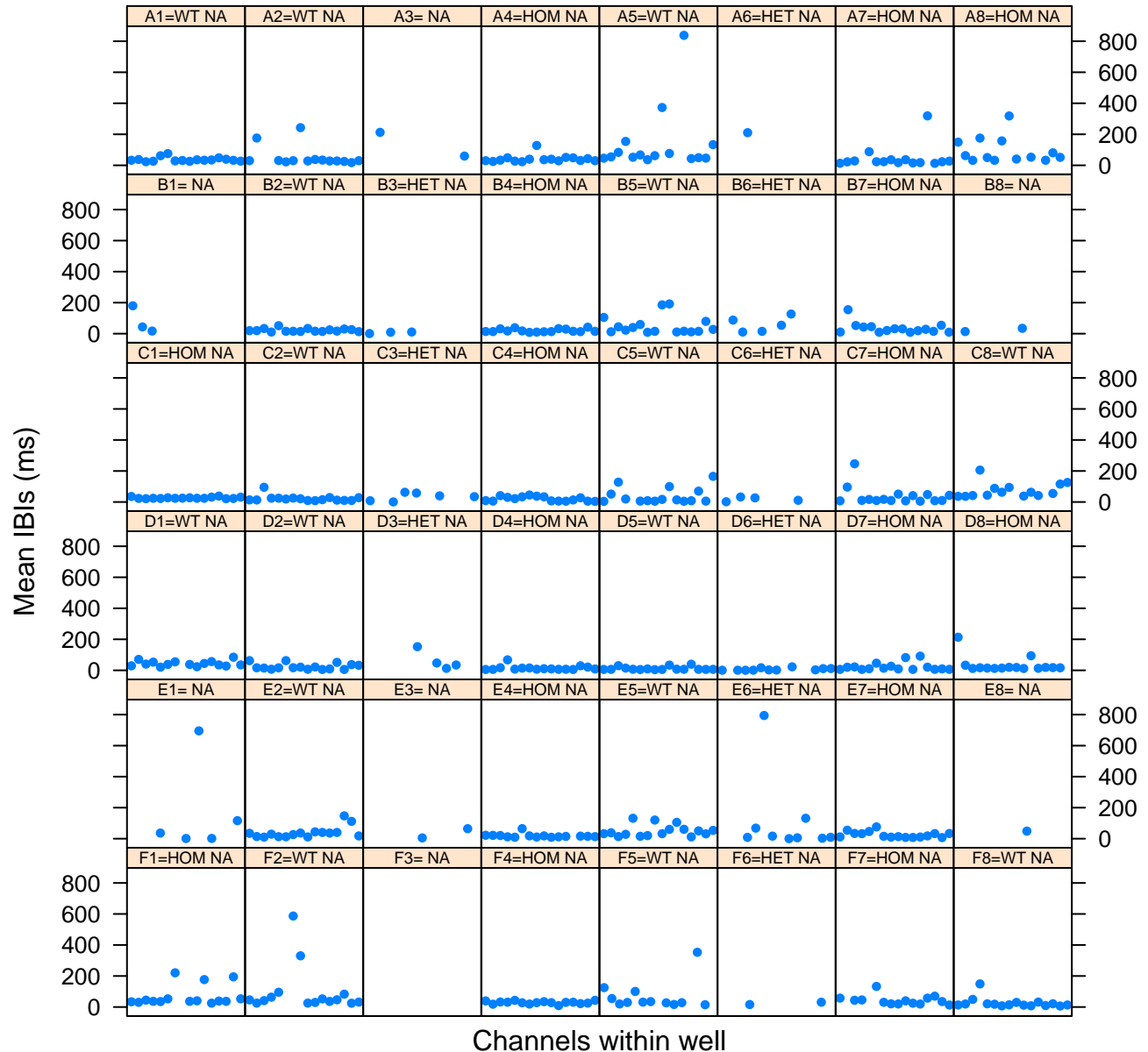
Mean ISI w/i Bursts (s) by Channels within Wells
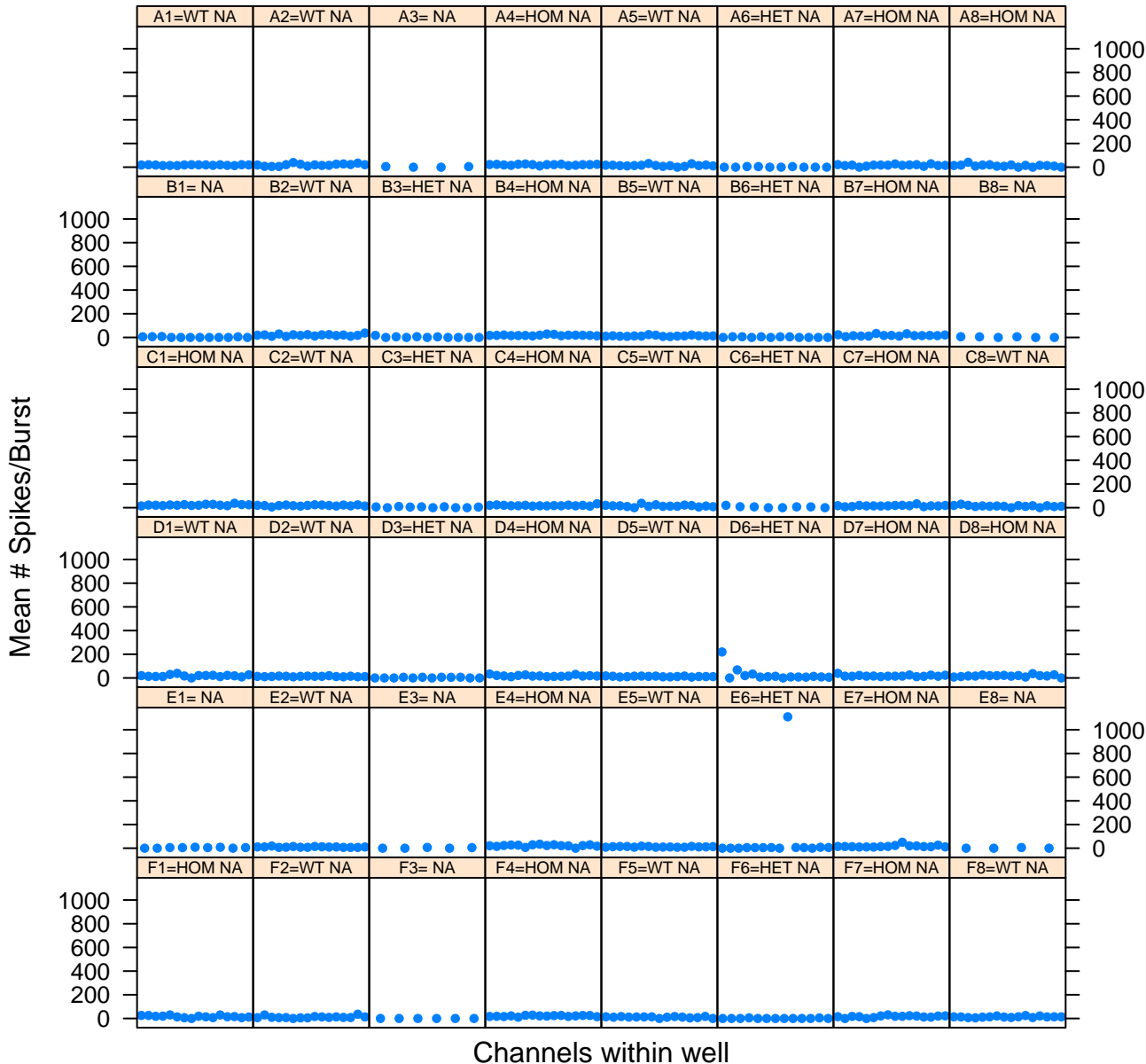file= Kcnt1Y777H_20170817_500659_DIV15
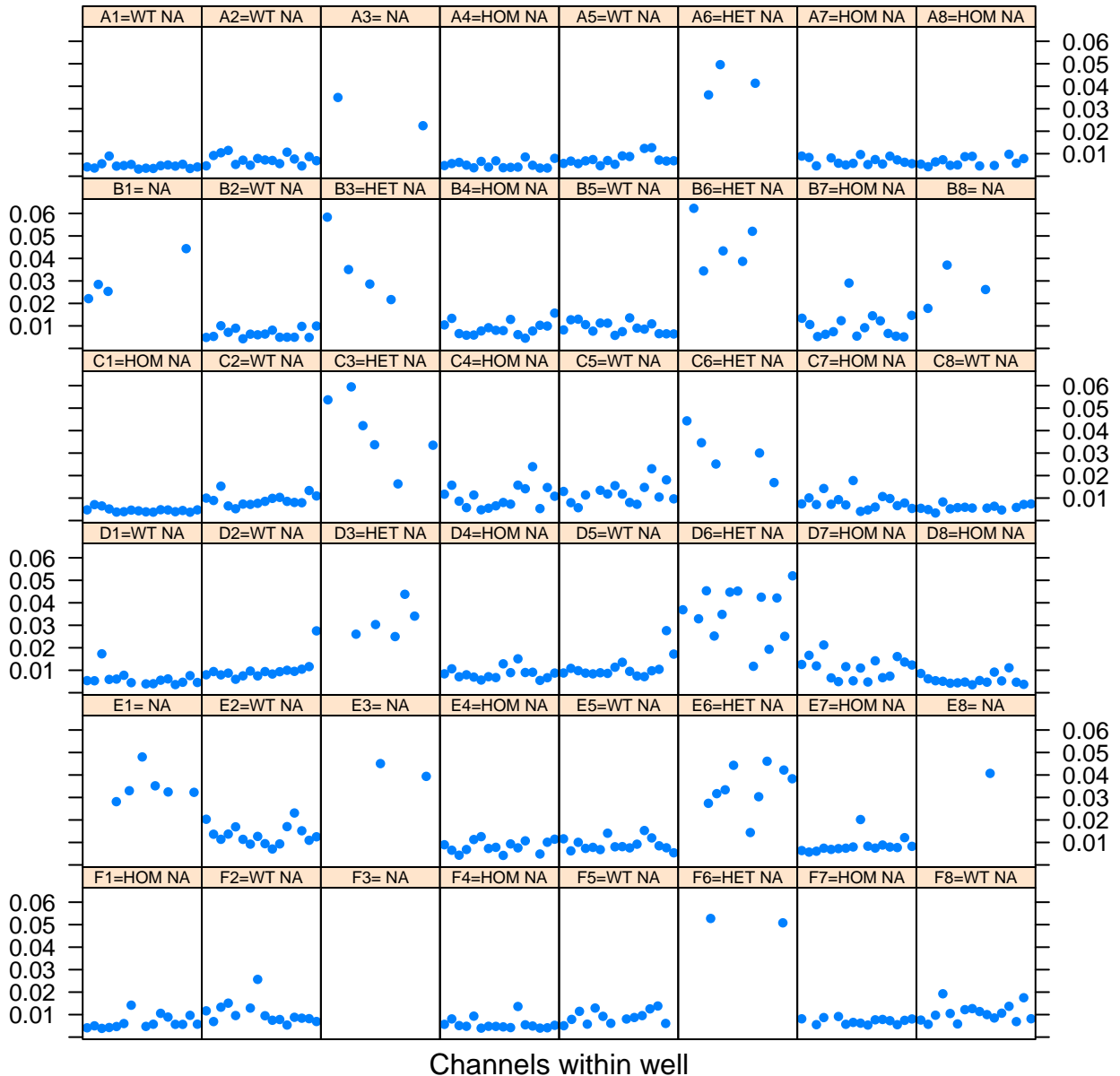
Mean Burst per Minute by Channels within Wells
file= Kcnt1Y777H_20170817_500659_DIV15

Mean # Spikes/Burst by Channels within Wells
file= Kcnt1Y777H_20170817_500659_DIV15

Mean # Spikes/Burst

Channels within well

A1=WT NA	A2=WT NA	A3= NA	A4=HOM NA	A5=WT NA	A6=HET NA	A7=HOM NA	A8=HOM NA
B1= NA	B2=WT NA	B3=HET NA	B4=HOM NA	B5=WT NA	B6=HET NA	B7=HOM NA	B8= NA
C1=HOM NA	C2=WT NA	C3=HET NA	C4=HOM NA	C5=WT NA	C6=HET NA	C7=HOM NA	C8=WT NA
D1=WT NA	D2=WT NA	D3=HET NA	D4=HOM NA	D5=WT NA	D6=HET NA	D7=HOM NA	D8=HOM NA
E1= NA	E2=WT NA	E3= NA	E4=HOM NA	E5=WT NA	E6=HET NA	E7=HOM NA	E8= NA
F1=HOM NA	F2=WT NA	F3= NA	F4=HOM NA	F5=WT NA	F6=HET NA	F7=HOM NA	F8=WT NA

% Spikes/Burst by Channels within Wells
file= Kcnt1Y777H_20170817_500659_DIV15