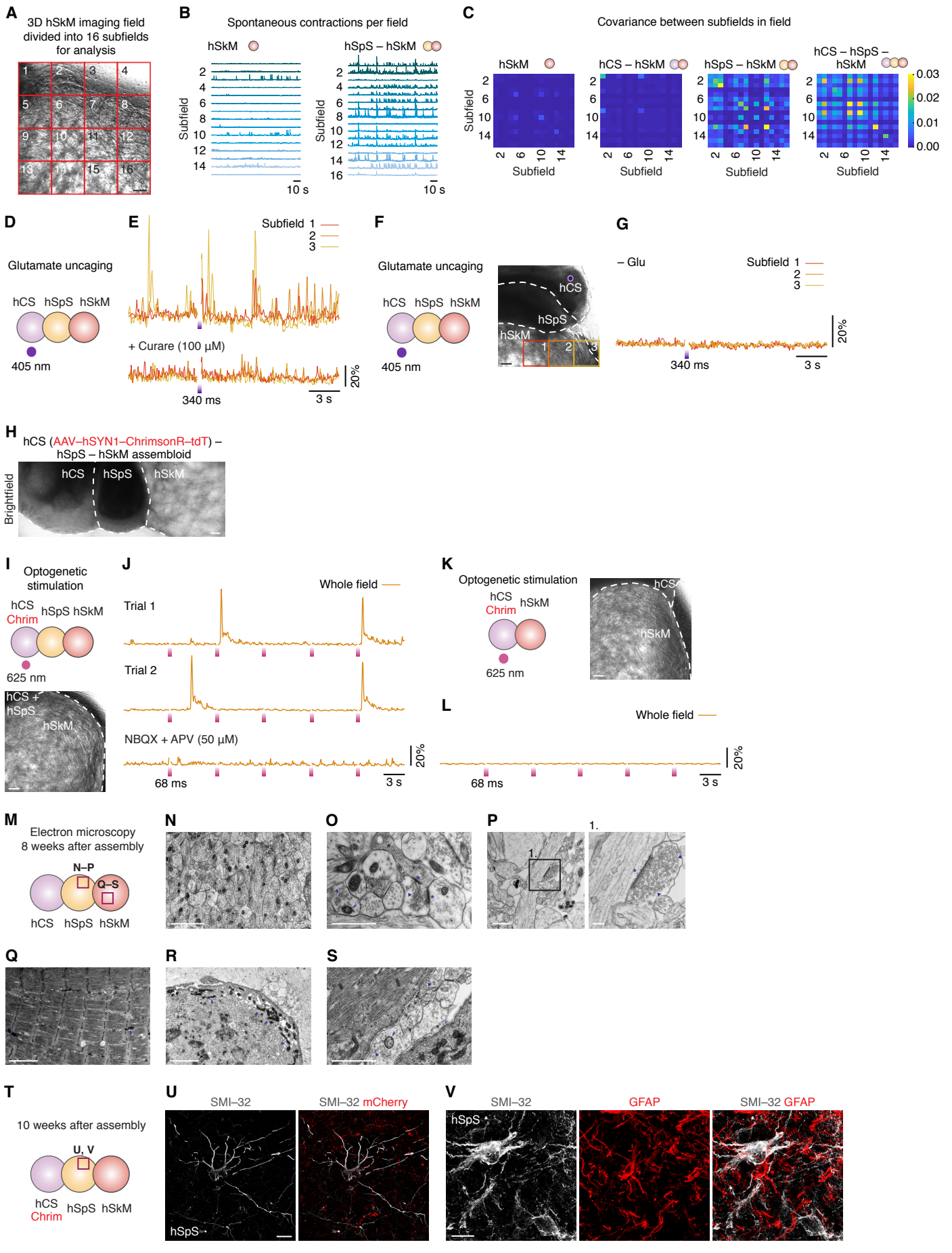
Figure S7


A
3D hSkM imaging field divided into 16 subfields for analysis
B
Spontaneous contractions per field
hSkM
hSpS – hSkM
Subfield
10 s
C
Covariance between subfields in field
hSkM
hCS – hSkM
hSpS – hSkM
hCS – hSpS – hSkM
Subfield
0.03
0.02
0.01
0.00
D
Glutamate uncaging
hCS hSpS hSkM
405 nm
E
Subfield 1
2
3
+ Curare (100 µM)
340 ms
3 s
20%
F
Glutamate uncaging
hCS hSpS hSkM
405 nm
hCS
hSpS
hSkM
G
– Glu
Subfield 1
2
3
340 ms
3 s
20%
H
hCS (AAV–hSYN1–ChrimsonR–tdT) – hSpS – hSkM assembloid
Brightfield
hCS
hSpS
hSkM
I
Optogenetic stimulation
hCS
Chrim
hSpS hSkM
625 nm
hCS + hSpS
hSkM
J
Whole field
Trial 1
Trial 2
NBQX + APV (50 µM)
68 ms
3 s
20%
K
Optogenetic stimulation
hCS
Chrim
hSkM
625 nm
hCS
hSkM
L
Whole field
68 ms
3 s
20%
M
Electron microscopy
8 weeks after assembly
N–P
Q–S
hCS hSpS hSkM
N
O
P
1.
Q
R
S
T
10 weeks after assembly
U, V
hCS
Chrim
hSpS hSkM
U
SMI–32
SMI–32 mCherry
hSpS
V
SMI–32
GFAP
SMI–32 GFAP
hSpS