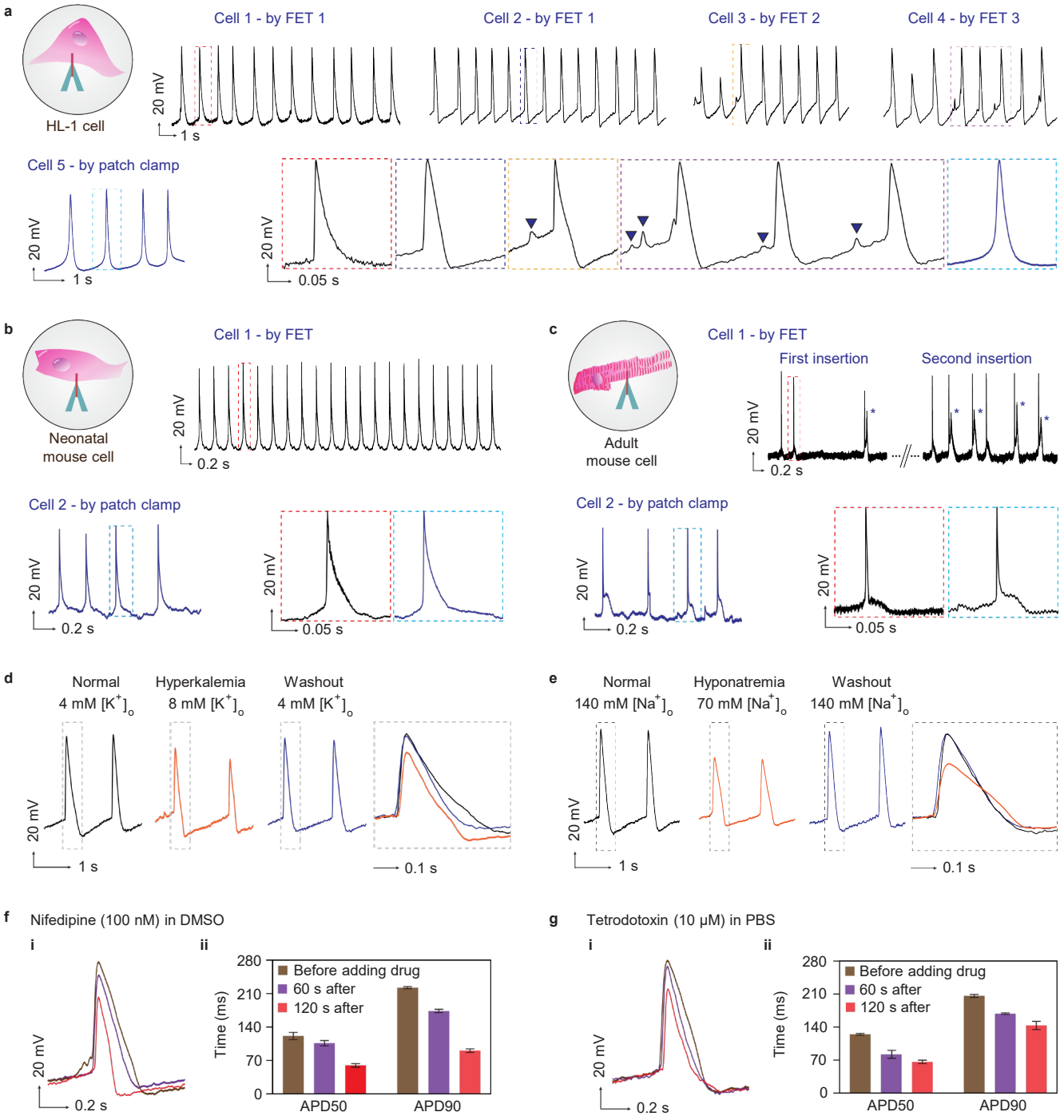
a
HL-1 cell
Cell 1 - by FET 1
Cell 2 - by FET 1
Cell 3 - by FET 2
Cell 4 - by FET 3
20 mV
1 s
Cell 5 - by patch clamp
20 mV
1 s
20 mV
0.05 s
b
Neonatal mouse cell
Cell 1 - by FET
20 mV
0.2 s
Cell 2 - by patch clamp
20 mV
0.2 s
20 mV
0.05 s
c
Adult mouse cell
Cell 1 - by FET
First insertion
Second insertion
20 mV
0.2 s
Cell 2 - by patch clamp
20 mV
0.2 s
20 mV
0.05 s
d
Normal
4 mM [K+]o
Hyperkalemia
8 mM [K+]o
Washout
4 mM [K+]o
20 mV
1 s
0.1 s
e
Normal
140 mM [Na+]o
Hyponatremia
70 mM [Na+]o
Washout
140 mM [Na+]o
20 mV
1 s
0.1 s
f
Nifedipine (100 nM) in DMSO
i
20 mV
0.2 s
ii
Before adding drug
60 s after
120 s after
Time (ms)
280
210
140
70
0
APD50
APD90
g
Tetrodotoxin (10 μM) in PBS
i
20 mV
0.2 s
ii
Before adding drug
60 s after
120 s after
Time (ms)
280
210
140
70
0
APD50
APD90