EDITORIAL

1 Making methods clearer

NEWS AND VIEWS

2 How do environments talk to genes?
Moshe Szyf ▶ see also p 33

4 Forgiving the sins of the fathers
Michael D Scofield & Peter W Kalivas ▶ see also p 42

6 Retooling spare parts: gene duplication and mind
T Grant Belgard & Daniel H Geschwind ▶ see also pp 16 and 25

8 Parietal and prefrontal neurons driven to distraction
Behrad Noudoost & Tiran Moore ▶ see also p 98

BRIEF COMMUNICATIONS

10 Central synapses release a resource-efficient amount of glutamate
L P Savtchenko, S Sylantyev & D A Rusakov

13 Neurogliaform cells dynamically regulate somatosensory integration via synapse-specific modulation
R Chittajallu, K A Pelkey & C J McBain

ARTICLES

16 Synaptic scaffold evolution generated components of vertebrate cognitive complexity
J Nithianantharajah, N H Komiyama, A McKechnie, M Johnstone, D H Blackwood, D St Clair, R D Emes, L N van de Lagemaat, L M Saksida, T J Bussey & S G N Grant ▶ see also p 6

25 Evolution of GluN2A/B cytoplasmic domains diversified vertebrate synaptic plasticity and behavior

Epigenetics of cocaine resistance (pp 4 and 42)
Allele-specific *FKBP5* DNA demethylation mediates gene–childhood trauma interactions
T Klengel, D Mehta, C Anacker, M Rex-Haffner, J C Pruessner, C M Pariante, T W W Pace, K B Mercer, H S Mayberg, B Bradley, C B Nemeroff, F Holsboer, C M Heim, K J Ressler, T Rein & E B Binder  ► see also p 2

Epigenetic inheritance of a cocaine-resistance phenotype
F M Vassoler, S L White, H D Schmidt, G Sadri-Vakili & R C Pierce  ► see also p 4

A role for Schwann cell–derived neuregulin-1 in remyelination
R M Stassart, R Fledrich, V Velanac, B G Brinkmann, M H Schwab, D Meijer, M W Sereda & K-A Nave

The smallest stroke: occlusion of one penetrating vessel leads to infarction and a cognitive deficit
A Y Shih, P Blinder, P S Tsai, B Friedman, G Stanley, P D Lyden & D Kleinfeld

Closed-loop optogenetic control of thalamus as a tool for interrupting seizures after cortical injury
J T Paz, T J Davidson, E S Frechette, B Delord, I Parada, K Peng, K Deisseroth & J R Huguenard

Neural signals of extinction in the inhibitory microcircuit of the ventral midbrain
W-X Pan, J Brown & J T Dudman

Long-term modification of cortical synapses improves sensory perception
R C Froemke, I Carcea, A J Barker, K Yuan, B A Seybold, A R O Martins, N Zaika, H Bernstein, M Wachs, P A Levis, D B Polley, M M Merzenich & C E Schreiner

Choice-related activity and correlated noise in subcortical vestibular neurons
S Liu, Y Gu, G C DeAngelis & D E Angelaki

Distinct neural mechanisms of distractor suppression in the frontal and parietal lobe
M Suzuki & J Gottlieb  ► see also p 8

Confidence in value-based choice
B De Martino, S M Fleming, N Garrett & R J Dolan

NATURE NEUROSCIENCE CLASSIFIED
See back pages.