editorial

Mining the mouse genome .................................................. 81

letters to the editor

The association between brain volume and intelligence
is of genetic origin ............................................................... 83

news and views

Transmission at the hair cell synapse ..................................... 85
Laurence O. Trussell
►See Articles, Page 147

Recycling signaling molecules during development ............... 87
Sara Ahlgren and Marianne Bronner-Fraser
►See Articles, Page 103

Social rank and vulnerability to drug abuse .......................... 88
Michael J. Kahar
►See Articles, Page 169

Categorizing the world: expert neurons look into key features ... 90
Isao Hasegawa and Yasushi Miyashita

book review

Defining the field of ion channels ........................................ 93
Ion Channels of Excitable Membranes, Third Edition
by Bertil Hille
Reviewed by Charles F. Stevens

brief communications

Neurofibromin regulates G protein–stimulated adenyl cyclase activity ...................................................... 95
J Tong, F Hannan, Y Zhu, A Bernards and Y Zhong

Activity in human ventral striatum locked to errors of reward prediction ................................................. 97
G Pagnoni, C F Zink, P R Montague and G S Berns
Deficits in spatial coding and feature binding following damage to spatiotopic maps in the human pulvinar. ................................................. 99
R Ward, S Danziger, V Owen and R Rafal

Prime-sight in a blindsight subject. .................................................. 101
L Weiskrantz, A Cowey and I Hodinott-Hill

articles

A critical role for sonic hedgehog signaling in the early expansion of the developing brain ................................................................. 103
J Britto, D Tannashill and R Keynes
►See News and Views, Page 87

Acetylcholinesterase is required for neuronal and muscular development in the zebrafish embryo ................................................. 111
M Behra, X Cousin, C Bertrand, J Vonesch, D Biellmann, A Chatonnet and U Strähle

Absence of acetylcholinesterase at the neuromuscular junctions of perlecan-null mice ................................................................. 119
E Arikawa-Hirasawa, S G Rossi, R L Rotundo and Y Yamada

The olfactory receptor gene superfamily of the mouse ............................................. 124
X Zhang and S Firestein

Multiple new and isolated families within the mouse superfamily of V1r vomeronasal receptors .................................................... 134
Ivan Rodriguez, Karina Del Punta, Andrea Rothman, Tomohiro Ishii and Peter Mombaerts

Developmental regulation of glutamate receptor field size by nonvesicular glutamate release ...................................................... 141
D E Featherstone, E Rushton and K Broadie
►See News and Views, Page 85

Transmitter release at the hair cell ribbon synapse .................................. 147
E Glowatzki and P A Fuchs
►See News and Views, Page 85

Long-term potentiation and contextual fear conditioning increase neuronal glutamate uptake .................................................... 155
J Levenson, E Weeber, J C Selcher, L S Kategaya, J D Sweatt and A Eskin

Differential contribution of NMDA receptors in hippocampal subregions to spatial working memory .................................. 162
I Lee and R P Kesner

Social dominance in monkeys: dopamine D2 receptors and cocaine self-administration ............................................................. 169
D Morgan, K A Grant, H D Gage, R H Mach, J R Kaplan, O Prioleau, S H Nader, N Buchheimer, R L Ehrenkaufer and M A Nader
►See News and Views, Page 88

A role for inhibition in shaping the temporal flow of information in prefrontal cortex ................................................................. 175
C Constantinidis, G V Williams and P S Goldman-Rakic

errata .................................................. 181

classifieds .................................................. see back pages