

## Contents

## Discussion meeting issue: Integrating Hebbian and homeostatic plasticity

	Article ID	Article ID
<b>INTRODUCTION</b>		
Integrating Hebbian and homeostatic plasticity: introduction K Fox and M Stryker	20160413	Homeostatic plasticity mechanisms in mouse V1 M Kaneko and MP Stryker 20160504
<b>ARTICLES</b>		
Glutamatergic synapses are structurally and biochemically complex because of multiple plasticity processes: long-term potentiation, long-term depression, short-term potentiation and scaling J Lisman	20160260	Experience-dependent homeostasis of 'noise' at inhibitory synapses preserves information coding in adult visual cortex M Gao, JL Whitt, S Huang, A Lee, S Mihalas, A Kirkwood and H-K Lee 20160156
The dialectic of Hebb and homeostasis GG Turrigiano	20160258	Enhancement of visual cortex plasticity by dark exposure I Erchova, A Vasalaukaite, V Longo and F Sengpiel 20160159
Hebbian plasticity requires compensatory processes on multiple timescales F Zenke and W Gerstner	20160259	A metaplasticity view of the interaction between homeostatic and Hebbian plasticity AX Yee, Y-T Hsu and L Chen 20160155
Gradation (approx. 10 size states) of synaptic strength by quantal addition of structural modules KKL Liu, MF Hagan and JE Lisman	20160328	Time-course and mechanisms of homeostatic plasticity in layers 2/3 and 5 of the barrel cortex S Glazewski, S Greenhill and K Fox 20160150
Functional consequences of pre- and postsynaptic expression of synaptic plasticity RP Costa, BEP Mizusaki, PJ Sjöström and MCW van Rossum	20160153	Variance and invariance of neuronal long-term representations C Clopath, T Bonhoeffer, M Hübener and T Rose 20160161
Astrocytic control of synaptic function T Papouin, J Dunphy, M Tolman, JC Foley and PG Haydon	20160154	Tumour necrosis factor-mediated homeostatic synaptic plasticity in behavioural models: testing a role in maternal immune activation SC Konefal and D Stellwagen 20160160
Multiple shared mechanisms for homeostatic plasticity in rodent somatosensory and visual cortex MA Gainey and DE Feldman	20160157	Integrating Hebbian and homeostatic plasticity: the current state of the field and future research directions T Keck, T Toyozumi, L Chen, B Doiron, DE Feldman, K Fox, W Gerstner, PG Haydon, M Hübener, H-K Lee, JE Lisman, T Rose, F Sengpiel, D Stellwagen, MP Stryker, GG Turrigiano and MC van Rossum 20160158