ANALYSIS

303 Analysis of computational footprinting methods for DNase sequencing experiments
Eduardo G Gusmao, Manuel Allhoff, Martin Zenge & Ivan G Costa

310 Inferring causal molecular networks: empirical assessment through a community-based effort

BRIEF COMMUNICATIONS

319 SuReSim: simulating localization microscopy experiments from ground truth models
Varun Venkataramani, Frank Herrmannsdörfer, Mike Heilemann & Thomas Kuner
see news and views page 301

322 epiGBS: reference-free reduced representation bisulfite sequencing
Thomas P van Gurp, Niels C A M Wagemaker, Björn Wouters, Philippine Vergeer, Joop N J Ouborg & Koen J F Verhoeven

325 Simultaneous fast measurement of circuit dynamics at multiple sites across the mammalian brain
Christina K Kim, Samuel J Yang, Nandini Pichamoorthy, Noah P Young, Isaac Kauvar, Joshua H Jennings, Talia N Lerner, Andre Berndt, Soo Yeun Lee, Charu Ramakrishnan, Thomas J Davidson, Masatoshi Inoue, Haruhiko Bito & Karl Deisseroth

329 T cell fate and clonality inference from single-cell transcriptomes
Michael J T Stubbington, Tapio Lönnberg, Valentina Proserpio, Simon Clare, Anneliese O Speak, Gordon Dougan & Sarah A Teichmann

333 High-resolution mass spectrometry of small molecules bound to membrane proteins

337 Sensory and optogenetically driven single-vessel fMRI
Xin Yu, Yi He, Maozen Wang, Hellmut Merkle, Stephen J Dodd, Afonso C Silva & Alan P Koretsky

341 Single-molecule imaging of non-equilibrium molecular ensembles on the millisecond timescale
Manuel F Juette, Daniel S Terry, Michael R Wasserman, Roger B Altman, Zhou Zhou, Hong Zhao & Scott C Blanchard

ARTICLES

345 A saposin-lipoprotein nanoparticle system for membrane proteins

352 Apollo-NADP*: a spectrally tunable family of genetically encoded sensors for NADP+
William D Cameron, Cindy V Bui, Ashley Hutchinson, Peter Loppnau, Susanne Gräslund & Jonathan V Rocheau

359 High-density three-dimensional localization microscopy across large volumes
see news and views page 301

366 Tissue-specific regulatory circuits reveal variable modular perturbations across complex diseases
Daniel Marbach, David Lamparter, Gerald Quon, Manolis Kellis, Zoltán Kutasik & Sven Bergmann

371 One library to make them all: streamlining the creation of yeast libraries via a SWAp-Tag strategy
Iyo Yafe, Uri Weill, Matthias Meurer, Silvia Chiartzm, Einat Zalckvar, Omer Goldman, Shifra Ben-Dor, Conny Schütze, Nils Wiedemann, Michael Knop, Anton Khmelinskii & Maya Schuldiner

379 CORRIGENDA AND ERRATA