In Focus
404 Chloride helps collagen build its network
Ben Short

People & Ideas
405 Heike Folsch: Peeling back the layers
Shawn N. Jordan

Spotlights
407 Division of labor in the growth cone by DSCR1
Timothy S. Catlett and Timothy M. Gomez
411 How Mesp1 makes a move
Robert G. Kelly

Reports
415 Diaphanous formin mDia2 regulates CENP-A levels at centromeres
Chenshu Liu and Yinghui Niao
425 The structured core of human β tubulin confers isotype-specific polymerization properties
Melissa C. Pamula, Shih-Chieh Ti, and Tarun M. Kapoor

Articles
435 Asterless is required for centriole length control and sperm development
Brian J. Galletta, Katherine C. Jacobs, Carey J. Fagerstrom, and Nasser M. Rusan
451 DSCR1 is required for both axonal growth cone extension and steering
463 Mesp1 controls the speed, polarity, and directionality of cardiovascular progenitor migration
Giuseppe Chiapparo, Xionghui Lin, Fabienne Tescaroct, Samira Chabab, Catherine Paulissen, Lorenzo Pitschi, Antoine Bondue, and Cédric Blanpain
479 Extracellular chloride signals collagen IV network assembly during basement membrane formation
Christopher F. Cummings, Vadim Pedchenko, Kyle L. Brown, Selene Colon, Mohamed Rafi, Celestial Jones-Paris, Elena Pokyeshova, Min Liu, Jose C. Pastor-Pareja, Cody Stothers, Luis A. Eto-Tolliver, A. Scott McColl, Roberto Vanacore, Gautam Bhave, Samuel Santora, Timothy S. Blackwell, Roy Zent, Ambra Pozzi, and Billy G. Hudson

Corrections
495 Correction: TspanC8 tetraspanins regulate ADAM10/Kuzbanian trafficking and promote Notch activation in flies and mammals
Emmanuel Dornier, Franck Coumailleau, Jean-François Ottavi, Julien Moretti, Claude Boucheix, Philippe Mauduit, François Schweiguth, and Eric Rubinstein

On the cover
Developing spermatids in the Drosophila testis. Ana1 (pink) and Sas-6 (cyan) mark basal bodies attached to individual spermatid nuclei (blue). Each basal body has a flagella (yellow) extending from its distal end. Galletta et al. show that the centriole protein Asterless regulates centriole length and basal body function.
Image courtesy of Katherine C. Jacobs.
© 2016 Galletta et al.
See page 435.