

Cell Biology

Maitre JL, Berthoumieux H, Krens SF, Salbreux G, Jülicher F, Paluch E, Heisenberg CP.
Adhesion functions in cell sorting by mechanically coupling the cortices of adhering cells.
Science, 338(6104):253-6 (2012)

Okaz E, Argüello-Miranda O, Bogdanova A, Vinod PK, Lipp JJ, Markova Z, Zagoriy I, Novak B, Zachariae W.
Meiotic Prophase Requires Proteolysis of M Phase Regulators Mediated by the Meiosis-Specific APC/C(Amal).
Cell, 151(3) 603-618 (2012)

Zeigerer A, Gilleron J, Bogorad RL, Marsico G, Nonaka H, Seifert S, Epstein-Barash H, Kuchimanchi S, Peng CG, Ruda VM, Del Conte-Zerial P, Hengstler JG, Kalaidzidis Y, Koteliansky V, Zerial M.
Rab5 is necessary for the biogenesis of the endolysosomal system in vivo.
Nature, 485(7399) 465-470 (2012)

Goehring N, Khuc Trong P, Bois J, Chowdhury D, Nicola EM, Hyman AA, Grill SW.
Polarization of PAR Proteins by Advective Triggering of a Pattern-Forming System.
Science, 334(6059) 1137-1141 (2011)

Guizetti J, Schermelleh L, Mäntler J, Maar S, Poser I, Leonhardt H, Müller-Reichert T, Gerlich DW.
Cortical constriction during abscission involves helices of ESCRT-III-dependent filaments.
Science 331 (6024):1616-1620 (2011)

2013

Tüngler V, Staroske W, Kind B, Dobrick M, Kretschmer S, Schmidt F, Krug C, Lorenz M, Chara O, Schwille P, Lee-Kirsch MA.
Single-stranded nucleic acids promote SAMHD1 complex formation.
J Mol Med (Berl). 2013 Jan 31

Rappa G, Mercapide J, Anzanello F, Le TT, Johlfs MG, Fiscus RR, Wilsch-Bräuninger M, Corbeil D, Lorico A.
Wnt interaction and extracellular release of prominin-1/CD133 in human malignant melanoma cells.
Exp Cell Res. 319(6):810-9 (2013)

Gurudev N, Florek M, Corbeil D, Knust E.
Prominent role of prominin in the retina.
Adv. Exp. Med. Biol., 777 55-71 (2013)

Klose S, Flores-Benitez D, Riedel F, and Knust E.
Fosmid-based structure-function analysis reveals functionality distinct domains in the cytoplasmic domain of *Drosophila* Crumbs.
G3 (Bethesda) 3, 153-165 (2013)

Sundaramurthy V, Barsacchi R, Samusik N, Marsico G, Gilleron J, Kalaidzidis I, Meyenhofer F, Bickle M, Kalaidzidis Y, Zerial M.
Integration of Chemical and RNAi Multiparametric Profiles Identifies Triggers of Intracellular Mycobacterial Killing.
Cell Host Microbe, 13(2) 129-42 (2013)

2012

Schiller M, Massalski C, Kurth T, Steinebrunner I.
The *Arabidopsis* apyrase AtAPY1 is localized in the Golgi instead of the extracellular space.
BMC Plant Biol. 2012 Jul 31;12:123

Malinovska L, Kroschwitz S, Munder M, Richter D, Alberti S.
Molecular chaperones and stress-inducible protein-sorting factors coordinate the spatiotemporal distribution of protein aggregates
Mol. Biol. Cell, 23(16) 3041-3056 (2012)

Ross K, Sedello A, Putz Todd G, Paszkowski-Rogacz M, Bird AW, Ding L, Grinenko T, Behrens K, Hubner N, Mann M, Waskow C, Stocking C, Buchholz F. Polycomb group ring finger 1 cooperates with Runx1 in regulating differentiation and self-renewal of hematopoietic cells.
Blood, 119(18) 4152-4161 (2012)

Chakraborty D, Kappei D, Theis M, Nitzsche A, Ding L, Paszkowski-Rogacz M, Surendranath V, Berger N, Schulz H, Saar K, Hubner N, Buchholz F. Combined RNAi and localization for functionally dissecting long non-coding RNAs
Nat. Methods, 9(4) 360-362 (2012)

Gloor Y, Müller-Reichert T, Walch-Solimena C.
Co-regulation of the arf-activation cycle and phospholipid-signaling during golgi maturation.
Commun Integr Biol. 5(1):12-5 (2012)

Mishra M, Rentsch M, Knust E.
Crumbs regulates polarity and prevents light-induced degeneration of the simple eyes of *Drosophila*, the ocelli
Eur. J. Cell Biol., 91(9) 706-716 (2012)

Sáenz J, Sezgin E, Schwille P, Simons K.
Functional convergence of hopanoids and sterols in membrane ordering.
Proc. Natl. Acad. Sci. U.S.A., 109(35) 14236-14240 (2012)

Ettinger A, Wilsch-Bräuninger M, Marzesco A, Bickle M, Lohmann A, Maliga Z, Karbanová J, Corbeil D, Hyman AA, Huttner WB.
Proliferating versus differentiating stem and cancer cells exhibit distinct midbody-release behaviour.
Nat. Commun. 2, 503 (2012)

Kalinina IM, Nandi A, Delivani P, Chacón MR, Klemm A, Ramunno-Johnson D, Krull A, Lindner B, Pavlin N, Tolic-Norrelykke IM.
Pivoting of microtubules around the spindle pole accelerates kinetochore capture.
Nat. Cell Biol., 15(1) 82-87 (2012)

Hiller B, Achleitner M, Glage S, Naumann R, Behrendt R, Roers A.
Mammalian RNase H2 removes ribonucleotides from DNA to maintain genome integrity.
J. Exp. Med. 209, no. 8, 1419-1426 (2012)

David B Thompson, R Villaseñor, Brent M Dorr, Marino Zerial, David R Liu
Cellular uptake mechanisms and endosomal trafficking of supercharged proteins.
Chem. Biol., 19(7) 831-843 (2012)

Winter JF, Höpfner S, Korn K, Farnung B, Bradshaw CR, Marsico G, Volkmer M, Habermann B, Zerial M.

Caenorhabditis elegans screen reveals role of PAR-5 in RAB-11-recycling endosome positioning and apicobasal cell polarity.

Nat. Cell Biol., 14(7) 666-676 (2012)

Pan-Montojo F, Schwarz M, Winkler C, Arnhold M, O'Sullivan GA, Pal A, Said J, Marsico G, Verbavatz JM, Rodrigo-Angulo M, Gille G, Funk R, Reichmann H. Environmental toxins trigger PD-like progression via increased alpha-synuclein release from enteric neurons in mice.

Sci. Rep., 2 Art. No. 898 (2012)

Olson SK, Greenan G, Desai A, Müller-Reichert T, Oegema K.

Hierarchical assembly of the eggshell and permeability barrier in *C. elegans*.

J Cell Biol. 198(4):731-48 (2012)

O'Toole ET, Greenan G, Lange KI, Srayko M, Müller-Reichert T.

The role of γ-tubulin in centrosomal microtubule organization.

PLoS one 7 (1) e29795 (2012)

Kelava I, Reillo I, Murayama AY, Kalinka AT, Stenzel D, Tomancak P, Matsuzaki F, Lebrand C, Sasaki E, Schwamborn JC, Okano H, Huttner WB, Borrell V.

Abundant occurrence of basal radial glia in the subventricular zone of embryonic neocortex of a lissencephalic primate, the common marmoset *Callithrix jacchus*.

Cereb. Cortex, 22(2) 469-481 (2012)

Martin Bergert M, Chandradoss SD, Desai R, Paluch E.

Cell mechanics control rapid transitions between blebs and lamellipodia during migration.

Proc. Natl. Acad. Sci. U.S.A., 109(36) 14434-14439 (2012)

Scolz M, Widlund P, Piazza S, a Bublik DR, Reber S, Peche LY, Ciani Y, Hubner N, Isokane M, Monte M, Ellenberg J, Hyman A, Schneider C, Bird AW. GTSE1 is a microtubule plus-end tracking protein that regulates EB1-dependent cell migration.

PLoS ONE, 7(12) Art. No. e51259 (2012)

Palm W, Sampaio J, Brankatschk M, Carvalho M, Mahmoud A, Shevchenko A, Eaton S.

Lipoproteins in *Drosophila melanogaster*-Assembly, Function, and Influence on Tissue Lipid Composition

PLoS Genet., 8(7) Art. No. e1002828 (2012)

2011

Krens SF, Möllmert S, Heisenberg CP.

Enveloping cell-layer differentiation at the surface of zebrafish germ-layer tissue explants.

Proc Natl Acad Sci U S A. 2011 Jan 18;108(3):E9-10

Nowak M, Machate A, Yu SR, Gupta M, Brand M.

Interpretation of the FGF8 morphogen gradient is regulated by endocytic trafficking.

Nat Cell Biol. 2011 Feb;13(2):153-8

Jászai J, Fargeas CA, Graupner S, Tanaka EM, Brand M, Huttner WB, Corbeil D.

Distinct and conserved prominin-1/CD133-positive retinal cell populations identified across species.

PLoS One. 2011 Mar 2;6(3):e17590

Niehage C, Steenblock C, Pursche T, Bornhäuser M, Corbeil D, Hoflack B. The cell surface proteome of human mesenchymal stromal cells.

PLoS One. 2011;6(5)

Bauer N, Wilsch-Bräuninger M, Karbanová J, Fonseca AV, Strauss D, Freund D, Thiele C, Huttner WB, Bornhäuser M, Corbeil D.

Haematopoietic stem cell differentiation promotes the release of prominin-1/CD133-containing membrane vesicles-a role of the endocytic-exocytic pathway.

EMBO Mol Med. 2011 Jul;3(7):398-409

Krastev D, Slabicki M, Paszkowski-Rogacz M, Hubner NC, Junqueira M, Shevchenko A, Mann M, Neugebauer KM, Buchholz F.

A systematic RNAi synthetic interaction screen reveals a link between p53 and snoRNP assembly.

Nat. Cell Biol., 13(7) 809-818 (2011)

Michel M, Raabe I, Kupinski AP, Pérez-Palencia R, Bökel C.

Local BMP receptor activation at adherens junctions in the *Drosophila* germline stem cell niche.

Nat Commun. 2011 Aug 2;2:415.

Laulier C, Barascu A, Guirouilh-Barbat J, Pennarun G, Chalony CL, Chevalier F, Palierne G, Bertrand P, Verbavatz JM, Lopez BS.

Bcl-2 Inhibits Nuclear Homologous Recombination by Localizing BRCA1 to the Endomembranes.

Cancer Res. 71 (10) 3590-3602 (2011)

Pranke IM, Morello V, Bigay J, Gibson K, Verbavatz JM, Antonny B, Jackson CL.

alpha-Synuclein and ALPS motifs are membrane curvature sensors whose contrasting chemistry mediates selective vesicle binding.

J. Cell Biol. 194 (1) 89-103 (2011)

Prigent M, Boy-Marcotte E, Chesneau L, Gibson K, Dupré-Crochet S, Tisserand H, Verbavatz JM, Cuif M.

The RabGAP proteins Gyp5p and Gyl1p recruit the BAR domain protein Rvs167p for polarized exocytosis.

Traffic, 12 (8) 1084-1097 (2011)

Galli M, Muñoz J, Portegijs V, Boxem M, Grill SW, Heck AJR, van den Heuvel S.

aPKC phosphorylates NuMA-related LIN-5 to position the mitotic spindle during asymmetric division.

Nat. Cell Biol., 13(9) 1132-1138 (2011)

Goehring N, Hoege C, Grill SW, Hyman AA.

PAR proteins diffuse freely across the anterior-posterior boundary in polarized *C. elegans* embryos.

J. Cell Biol., 193(3) 583-594 (2011)

Liang X, Madrid J, Saleh H, Howard J.
NOMPC, a member of the TRP channel family, localizes to the tubular body and distal cilium of *Drosophila* campaniform and chordotonal receptor cells.
Cytoskeleton, 68(1) 1-7 (2011)

Pocha S, Shevchenko A, Knust E.
Crumbs regulates rhodopsin transport by interacting with and stabilizing myosin V
J. Cell Biol., 195(5) 827-838 (2011)

Pocha S, Wassmer T, Niehage C, Hoflack B, Knust E.
Retromer controls epithelial cell polarity by trafficking the apical determinant Crumbs
Curr. Biol., 21(13) 1111-1117 (2011)

Kaiser HJ, Surma M, Levental I, Grzybek M, Klemm RW, Lingwood D, Simons K.
Molecular convergence of bacterial and eukaryotic surface order.
JBC, 286(47) 40631-40637 (2011)

Kaiser HJ, Orzowski A, Rög T, Nyholm TKM, Chai W, Feizi T, Lingwood D, Vattulainen I, Simons K.
Lateral sorting in model membranes by cholesterol-mediated hydrophobic matching
Proc. Natl. Acad. Sci. U.S.A., 108(40) 16628-16633 (2011)

Levental I, Grzybek M, Simons K.
Raft domains of variable properties and compositions in plasma membrane vesicles
Proc. Natl. Acad. Sci. U.S.A., 108(28) 11411-11416 (2011)

Decker M, Jaensch S, Pozniakovskiy AI, Andrea Zinke A, O'Connell KF, Zachariae W, Myers E, Hyman AA.
Limiting amounts of centrosome material set centrosome size in *C. elegans* embryos.
Curr. Biol., 21(15) 1259-1267 (2011)

Jakobsen L, Vanselow K, Skogs M, Toyoda Y, Lundberg E, Poser I, Falkenby LG, Bennetzen M, Westendorf J Nigg EA, Uhlen M, Hyman AA, Andersen JS.
Novel asymmetrically localizing components of human centrosomes identified by complementary proteomics methods.
EMBO J., 30(8) 1520-1535 (2011)

Per Widlund P, Jeffrey H. Stear JH, Andrei I. Pozniakovskiy AI, Marija Zanic M, Simone Reber S, Gary J. Brouhard GJ, Hyman AA, Howard J.
XMAP215 polymerase activity is built by combining multiple tubulin-binding TOG domains and a basic lattice-binding region.
Proc. Natl. Acad. Sci. U.S.A., 108(7) 2741-2746 (2011)

2010

Arboleda-Estudillo Y, Krieg M, Stühmer J, Licata NA, Muller DJ, Heisenberg CP.
Movement directionality in collective migration of germ layer progenitors.
Curr Biol. 2010 Jan 26;20(2):161-9

Anitei M, Stange C, Parshina I, Baust T, Schenck A, Raposo G, Kirchhausen T, Hoflack B.

Protein complexes containing CYFIP/Sra/PIR121 coordinate Arf1 and Rac1 signalling during clathrin-AP-1-coated carrier biogenesis at the TGN.
Nat Cell Biol. 2010 Apr;12(4):330-40

Jászai J, Farkas LM, Fargeas CA, Janich P, Haase M, Huttner WB, Corbeil D. Prominin-2 is a novel marker of distal tubules and collecting ducts of the human and murine kidney.

Histochem Cell Biol. 2010 May;133(5):527-39

Fonseca AV, Freund D, Bornhäuser M, Corbeil D. Polarization and migration of hematopoietic stem and progenitor cells rely on the RhoA/ROCK I pathway and an active reorganization of the microtubule network.

J Biol Chem. 2010 Oct 8;285(41):31661-71

Díz-Muñoz A, Krieg M, Bergert M, Ibarlucea-Benitez I, Muller DJ, Paluch E, Heisenberg CP. Control of directed cell migration in vivo by membrane-to-cortex attachment.

PLoS Biol. 2010 Nov 30;8(11)

Slabicki M, Theis M, Krastev D, Samsonov S, Mundwiller E, Junqueira M, Paszkowski-Rogacz M, Teyra J, Heninger AK, Poser I, Prieur F, Truchetto J, Confavreux C, Marelli C, Durr A, Camdessanche JP, Brice A, Shevchenko A, Pisabarro MT, Stevanin G, Buchholz F, A genome-scale DNA repair RNAi screen identifies SPG48 as a novel gene associated with hereditary spastic paraplegia.

PLoS Biol., 8(6) Art. No. e1000408 (2010)

Hutchins JRA, Toyod Y, Hegemann B, Poser I, Hériché JK, Sykora MM, Augsburg M, Hudecz O, Buschhorn BA, Bulkescher J, Conrad C, Comartin D, Schleiffer A, Sarov M, Andrei I, Pozniakovsky AI, Slabicki M, Schloissnig S, Steinmacher I, Leuschner M, Ssykor A, Lawo S, Pelletier L, Stark H, Nasmyth K, Ellenberg J, Durbin R, Buchholz F, Mechtler K, Hyman AA, Peters JM. Systematic analysis of human protein complexes identifies chromosome segregation proteins.

Science, 328(5978) 593-599 (2010)

Gloor Y, Schöne M, Habermann B, Ercan E, Beck M, Weselek G, Müller-Reichert T, Walch-Solimena C.

Interaction between Sec7p and Pik1p: the first clue for the regulation of a coincidence detection signal.

Eur. J. Cell Biol. 89 (8) 575-583 (2010)

Müller-Reichert T, Greenan G, O'Toole E.T, Srivastava M.

The elegans of spindle assembly.

Cell. Mol. Life Sci. 67 (13) 2195-2213 (2010)

Penkov S, Mende F, Zagoriy V, Erkut C, Martin R, Pässler U, Schuhmann K, Schwudke D, Gruner M, Mäntler J, Müller-Reichert T, Shevchenko A, Knölker H, Kurzchalia TV.

Maradolipids: Diacyltrehalose Glycolipids Specific to Dauer Larva in *Caenorhabditis elegans*.

Angew. Chem. Int. Ed. Engl. 49 (49) 9430-9435 (2010)

Redemann S, Pecreaux J, Goehring NW, Khairy K, Stelzer EH, Hyman AA, Howard J.

Membrane invaginations reveal cortical sites that pull on mitotic spindles in one-cell *C. elegans* embryos.

PLoS ONE, 5(8) Art. No. e12301 (2010)

Bechstedt S, Albert J, Kreil DP, Müller-Reichert T, Göpfert M, Howard J.
A doublecortin containing microtubule-associated protein is implicated in mechanotransduction in *Drosophila* sensory cilia.
Nat. Commun., 1(1) Art. No. 11 (2010)

Bulgakova N, Rentsch M, Knust E.
Antagonistic functions of two stardust isoforms in *Drosophila* photoreceptor cells.
Mol. Biol. Cell, 21(22) 3915-3925 (2010)

Kilic A, Klose S, Dobberstein B, Knust E, Kapp K.
The *Drosophila* Crumbs signal peptide is unusually long and is a substrate for signal peptide peptidase.
Eur. J. Cell Biol., 89(6) 449-461 (2010)

Mishra R, Grzybek M, Niki T, Hirashima M, Simons K.
Galectin-9 trafficking regulates apical-basal polarity in Madin-Darby canine kidney epithelial cells
Proc. Natl. Acad. Sci. U.S.A., 107(41) 17633-17638 (2010)

Levental I, Lingwood D, Grzybek M, Coskun U, Simons K.
Palmitoylation regulates raft affinity for the majority of integral raft proteins
Proc. Natl. Acad. Sci. U.S.A., 107(51) 22050-22054 (2010)

Rumpf C, Cipak L, Alexander Schleiffer A, Pidoux A, Mechtler K, Tolic-Norrelykke IM, Gregan J.
Laser microsurgery provides evidence for merotelic kinetochore attachments in fission yeast cells lacking Pcs1 or Clr4
Cell Cycle, 9(19) 3997-4004 (2010)

Farhan H, Wendeler MW, Mitrovic S, Fava E, Silberberg Y, Sharan R, Zerial M, Hauri HP.
MAPK signaling to the early secretory pathway revealed by kinase/phosphatase functional screening.
J. Cell Biol., 189(6) 997-1011 (2010)

Peters N, Perez DE, Song MH, Liu Y, Müller-Reichert T, Caron C, Kemphues KJ, O'Connell KF.
Control of mitotic and meiotic centriole duplication by the Plk4-related kinase ZYG-1.
J. Cell. Sci. 123 (Pt 5) 795-805 (2010)

Carvalho M, Schwudke D, Sampaio J, Palm W, IRiezman I, Dey G, Gagan D Gupta GD, Mayor S, Howard Riezman H, Shevchenko A, Kurzchalia TV, Eaton S.
Survival strategies of a sterol auxotroph.
Development, 137(21) 3675-3685 (2010)

Hoege C, Constantinescu AT, Schwager A, Goehring NW, Kumar P, Hyman AA.
LGL can partition the cortex of one-cell *Caenorhabditis elegans* embryos into two domains.
Curr. Biol., 20(14) 1296-1303 (2010)

Brankatschk M, Eaton S
Lipoprotein particles cross the blood-brain barrier in *Drosophila*.
J. Neurosci., 30(31) 10441-10447 (2010)

2009

Heckel T, Czupalla C, Expierto Santo AI, Anitei M, Arantzazu Sanchez-Fernandez M, Mosch K, Krause E, Hoflack B.
Src-dependent repression of ARF6 is required to maintain podosome-rich sealing zones in bone-digesting osteoclasts.
Proc Natl Acad Sci U S A. 2009 Feb 3;106(5)

Ding L, Paszkowski-Rogacz M, Nitzsche A, Slabicki M, Heninger AK, de Vries I, Kittler R, Junqueira M, Shevchenko A, Schulz H, Hubner N, Doss MX, Sachinidis A, Hescheler J, Iacone R, Anastassiadis K, Stewart AF, Pisabarro MT, Caldarelli A, Poser I, Theis M, Buchholz F.
A genome-scale RNAi screen for Oct4 modulators defines a role of the Paf1 complex for embryonic stem cell identity.
Cell Stem Cell, 4(5) 403-415 (2009)

Theis M, Slabicki M, Junqueira M, Paszkowski-Rogacz M, Sontheimer J, Kittler R, Heninger AK, Glatter T, Kruusmaa K, Poser I, Hyman AA, Pisabarro MT, Gstaiger M, Aebersold R, Shevchenko A, Buchholz F.
Comparative profiling identifies C13orf3 as a component of the Ska complex required for mammalian cell division.
EMBO J., 28(10) 1453-1465 (2009)

Vasileva, A, Tiedau D, Firooznia A, Müller-Reichert T, Jessberger R.
Tdrd6 is required for spermiogenesis, chromatoid body architecture and regulation of miRNA expression.
Curr. Biol. 19, 630-639 (2009)

Cao X, Coskun U, Rössle R, Buschhorn SB, Grzybek M, Dafforn TR, Lenoir M, Overduin M, Simons K.
Golgi protein FAPP2 tubulates membranes.
Proc. Natl. Acad. Sci. U.S.A., 106(50) 21121-21125 (2009)

Lingwood D, Schuck S, Ferguson C, Gerl MJ, Simons K.
Morphological homeostasis by autophagy.
Autophagy, 5(7) 1039-1040 (2009)

Lingwood D, Schuck S, Ferguson C, Gerl MJ, Simons K.
Generation of cubic membranes by controlled homotypic interaction of membrane proteins in the endoplasmic reticulum.
J. Biol. Chem., 284(18) 12041-12048 (2009)

Vogel S, Pavin N, Maghelli N, Jülicher F, Tolic-Norrelykke IM.
Self-organization of dynein motors generates meiotic nuclear oscillations.
PLoS Biol., 7(4) Art. No. e1000087 (2009)

Schenk J, Wilsch-Bräuninger M, Calegari F, Huttner WB.
Myosin II is required for interkinetic nuclear migration of neural progenitors.
Proc Natl Acad Sci U S A. (38):16487-92 (2009)

Klemm RW, Ejsing CS, Surma MA, Kaiser HJ, Gerl MJ, Sampaio JL, de Robillard Q, Ferguson C, Proszynski TJ, Shevchenko A, Simons K.
Segregation of sphingolipids and sterols during formation of secretory vesicles at the trans-Golgi network.
J. Cell Biol. 185 (4): 601-612 (2009)

Marzesco AM, Wilsch-Bräuninger M, Dubreuil V, Janich P, Langenfeld K, Thiele C, Huttner WB, Corbeil D.
Release of extracellular membrane vesicles from microvilli of epithelial cells is enhanced by depleting membrane cholesterol.

Cambridge SB, Geissler D, Calegari F, Anastassiadis K, Hasan MT, Stewart AF, Huttner WB, Hagen V, Bonhoeffer T
Doxycycline-dependent photoactivated gene expression in eukaryotic systems.
Nat. Methods, 6(7) 527-531 (2009)

Corbeil D, Joester A, Fargeas CA, Jászai J, Garwood J, Hellwig A, Werner HB, Huttner WB
Expression of distinct splice variants of the stem cell marker prominin-1 (CD133) in glial cells.
Glia, 57(8) 860-874 (2009)

Lawo S, Bashkurov M, Mullin M, Gomez Ferreria M, Kittler R, Habermann B, Tagliaferro A, Poser I, Hutchins JRA, Hegemann B, Pinchev D, Buchholz F, Peters JM, Hyman AA, Gingras AC, Pelletier L.
HAUS, the 8-subunit human Augmin complex, regulates centrosome and spindle integrity.
Curr. Biol., 19(10) 816-826 (2009)

Khaliullina H, Panáková D, Eugster C, Riedel F, Carvalho M, Eaton S.
Patched regulates Smoothened trafficking using lipoprotein-derived lipids.
Development, 136(24) 4111-4121 (2009)

2008

Baust T, Anitei M, Czupalla C, Parshyna I, Bourel L, Thiele C, Krause E, Hoflack B.
Protein networks supporting AP-3 function in targeting lysosomal membrane proteins.
Mol Biol Cell. 2008 May;19(5):1942-51

Jászai J, Fargeas CA, Haase M, Farkas LM, Huttner WB, Corbeil D.
Robust expression of Prominin-2 all along the adult male reproductive system and urinary bladder.
Histochem Cell Biol. 2008 Oct;130(4):749-59

Khairy K, Foo J, Howard J.
Shapes of red blood cells: comparison of 3D confocal images with the bilayer-couple model
Cellular and molecular Bioengineering, 1(2-3) 173-181 (2008)

Torkko JM, Manninen A, Schuck S, Simons K.
Depletion of apical transport proteins perturbs epithelial cyst formation and ciliogenesis.
J. Cell. Sci., 121(Pt 8) 1193-1203 (2008)

Krüger N, Tolic-Norrelykke IM.
Association of mitochondria with spindle poles facilitates spindle alignment.
Curr. Biol., 18(15) 646-647 (2008)

Del Conte-Zerial P, Brusch L, Rink J, Collinet C, Kalaidzidis Y, Zerial M, Deutsch A.
Membrane identity and GTPase cascades regulated by toggle and cut-out switches.
Mol. Syst. Biol., 4 206-206 (2008)

Demmel L, Gravert M, Ercan E, Habermann B, Müller-Reichert T, Kukhtina V, Haucke V, Baust T, Sohrmann M, Kalaidzidis Y, Klose C, Beck M, Peter M, Walch-Solimena C.

The clathrin adaptor Gga2p is a phosphatidylinositol 4-phosphate effector at the Golgi exit.

Mol. Biol. Cell, 19, 1991-2002 (2008)

Song MH, Aravind L, Müller-Reichert T, O'Connell KF.

The conserved protein SZY-20 opposes the PLK4-related kinase ZYG-1 to limit centrosome size.

Dev. Cell, 15, 901-912 (2008)

Zhu F, Lawo S, Bird A, Pinchev D, Ralph A, Richter C, Müller-Reichert T, Kittler R, Hyman AA, Pelletier L.

The mammalian SPD-2 ortholog Cep192 regulates centrosome biogenesis.

Curr. Biol. 18, 136-141 (2008)

Kosodo Y, Toida K, Dubreuil V, Alexandre P, JSchenk J, Kiyokage E, Attardo A, Mora-Bermúdez F, Arii T, Clarke JDW, Huttner WB.

Cytokinesis of neuroepithelial cells can divide their basal process before anaphase.

EMBO J., 27(23) 3151-3163 (2008)

Bird AW, Hyman AA.

Building a spindle of the correct length in human cells requires the interaction between TPX2 and Aurora A.

J. Cell Biol., 182(2) 289-300 (2008)

Brouhard GJ, Stear JH, Noetzel TL, Al-Bassam J, Kinoshita K, Harrison SC, Howard J, Hyman AA

XMAP215 is a processive microtubule polymerase.

Cell, 132(1) 79-88 (2008)