

# DeltaVision OMX Publications

## Research Employing OMX Systems

### Remodelling of Cortical Actin Where Lytic Granules Dock at Natural Killer Cell Immune Synapses Revealed by Super-Resolution Microscopy.

Alice C. N. Brown, Stephane Oddos, Ian M. Dobbie, Juha-Matti Alakoskela, Richard M. Parton, Philipp Eissmann, Mark A. A. Neil, Christopher Dunsby, Paul M. W. French, Ilan Davis, Daniel M. Davis.

PLoS Biology, 2011; 9 (9): e1001152 DOI: 10.1371/journal.pbio.1001152  
<http://ec.asm.org/cgi/content/abstract/EC.00244-10v1>

### Kif18B interacts with EB1 and controls astral microtubule length during mitosis

Jane R. Stout, Amber L. Yount, James A. Powers, Chantal LeBlanc, Stephanie C. Ems-McClung, and Claire E. Walczak

Mol. Biol. Cell, Sep 2011; 22: 3070 - 3080.  
<http://www.mcponline.org/cgi/content/full/10/11/M110.003129>

### A PAR-1-dependent orientation gradient of dynamic microtubules directs posterior cargo transport in the Drosophila oocyte

Richard M. Parton, Russell S. Hamilton, Graeme Ball, Lei Yang, C. Fiona Cullen, Weiping Lu, Hiroyuki Ohkura, and Ilan Davis

J. Cell Biol., Jul 2011; 194: 121 - 135  
<http://www.molbiolcell.org/cgi/content/full/22/1/78>

### A PAR-1-dependent orientation gradient of dynamic microtubules directs posterior cargo transport in the Drosophila oocyte

Richard M. Parton, Russell S. Hamilton, Graeme Ball, Lei Yang, C. Fiona Cullen, Weiping Lu, Hiroyuki Ohkura, and Ilan Davis

J. Cell Biol., Jul 2011; 194: 121 - 135  
<http://jcb.rupress.org/content/194/1/121.abstract>

### Quantitative immunofluorescence mapping reveals little functional co-clustering of proteins within platelet $\alpha$ -granules

Jeffrey Kamykowski, Peter Carlton, Siddharth Sehgal, and Brian Storrie

Blood, May 2011; 10.1182/blood-2011-01-330910.  
<http://bloodjournal.hematologylibrary.org/content/early/2011/05/26/blood-2011-01-330910.abstract>

### Cortical Constriction During Abscission Involves Helices of ESCRT-III-Dependent Filaments

Julien Guizetti, Lothar Schermelleh, Jana Mäntler, Sandra Maar, Ina Poser, Heinrich Leonhardt, Thomas Müller-Reichert, and Daniel W. Gerlich Science DOI: 10.1126/science.1201847

<http://www.sciencemag.org/content/early/2011/02/09/science.1201847.abstract>

### Characterization of MRP RNA-protein interactions within the perinuclear compartment

Callie Pollock, Kelly Daily, Van Trung Nguyen, Chen Wang, Marzena Anna Lewandowska, Olivier Bensade, and Sui Huang

Mol. Biol. Cell, Mar 2011; 22: 858 - 866.  
<http://www.molbiolcell.org/cgi/content/abstract/22/6/858?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=1&fulltext=omx&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourceType=HWCIT>

### Tracking glideosome-associated protein-50 reveals the development and organization of the inner membrane complex of *P. falciparum*

Jeffrey A. Yeoman, Eric Hanssen, Alexander G. Maier, Nectarios Klonis, Bohumil Maco, Jake Baum, Lynne Turnbull, Cynthia B. Hitchchurch, Matthew W.A. Dixonand, and Leann Tilley

Eukaryot. Cell, Jan 2011; 10.1128  
<http://ec.asm.org/cgi/content/abstract/EC.00244-10v1?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=1&fulltext=omx&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourceType=HWCIT>

### Several Novel Nuclear Envelope Transmembrane Proteins Identified in Skeletal Muscle Have Cytoskeletal Associations

Gavin S. Wilkie, Nadia Korfali, Selene K. Swanson, Poonam Malik, Vlastimil Srsen, Dzmitry G. Batrakou, Jose de las Heras, Nikolaj Zuleger, Alastair R. W. Kerr, Laurence Florens, and Eric C. Schirmer

Mol. Cell. Proteomics, Jan 2011; 10: M110.003129.  
<http://www.mcponline.org/cgi/content/full/10/11/M110.003129?maxtoshow=&HITS=10&hits=10&RESULTFORMA=1&fulltext=omx&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourceType=HWCIT>

### The SUMO protease SENP6 is a direct regulator of PML nuclear bodies

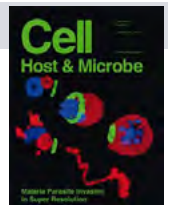
Neil Hattersley, Linnan Shen, Ellis G. Jaffray, and Ronald T. Hay

Mol. Biol. Cell, Jan 2011; 22: 78 - 90.  
<http://www.molbiolcell.org/cgi/content/full/22/1/78?maxtoshow=&HITS=10&hits=10&RESULTFORMAT=1&fulltext=omx&andorexactfulltext=and&searchid=1&FIRSTINDEX=0&sortspec=date&resourceType=HWCIT>

### Super-Resolution Dissection of Coordinated Events during Malaria Parasite Invasion of the Human Erythrocyte

David T. Riglar, Dave Richard, Danny W. Wilson, Michelle J. Boyle, Chaitali Dekiwadia, Lynne Turnbull, Fiona Angrisan, Danushka S. Marapana, Kelly L. Rogers, Cynthia B. Hitchchurch, James G. Beeson, Alan F. Cowman, Stuart A. Ralph, Jake Baum

Cell Host & Microbe, Volume 9, Issue 1, 9-20  
[http://www.cell.com/cell-host-microbe/abstract/S1931-3128\(10\)00413-0](http://www.cell.com/cell-host-microbe/abstract/S1931-3128(10)00413-0)



### Nuclear Speckles

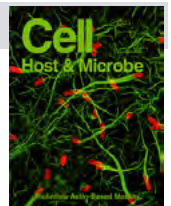
David L. Spector and Angus I. Lamond

Cold Spring Harb Perspect Biol, Feb 2011; 3: a000646.  
<http://cshperspectives.cshlp.org/cgi/reprint/3/2/a000646>

### Defining a Core Set of Actin Cytoskeletal Proteins Critical for Actin-Based Motility of Rickettsia

Serio AW, Jeng RL, Haglund CM, Reed SC, Welch MD. Cell Host & Microbe, Volume 7, Issue 5, 388-398, 20 May 2010

[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20478540](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20478540)



### Fast live simultaneous multiwavelength four-dimensional optical microscopy

Carlton PM, Boulanger J, Kervrann C, Sibarita JB, Salamero J, Gordon-Messer S, Bressan D, Haber JE, Haase S, Shao L, Winoto L, Matsuda A, Kner P, Uzawa S, Gustafsson M, Kam Z, Agard DA, Sedat JW.

Proc Natl Acad Sci U S A. 2010 Aug 12  
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### Measurement of replication structures at the nanometer scale using super-resolution light microscopy

Baddeley D, Chagin VO, Schermelleh L, Martin S, Pombo A, Carlton PM, Gahl A, Domaing P, Birk U, Leonhardt H, Cremer C, Cardoso MC.

Nucleic Acids Res. Vol. 38: e8. 2010  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=19864256](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=19864256)

### WASH and the Arp2/3 complex regulate endosome shape and trafficking

Duleh SN, Welch MD.

Cytoskeleton. Mar;67(3):193-206, 2010.  
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### Dendritic cell podosomes are protrusive and invade the extracellular matrix using metalloproteinase MMP-14.

Gawden-Bone C, Zhou Z, King E, Prescott A., Watts C., and Lucocq J. J. Cell Sci., May 123: 1427 - 1437. 2010

[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20356925](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20356925)

### Super-Resolution Imaging of Plasmodesmata Using Three-Dimensional Structured Illumination Microscopy

Fitzgibbon J, Bell K, King E, Oparka K.

Plant Physiology, Aug 2010; 153: 1453 - 1463.  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20508140](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20508140)

### Phosphomimetic mutants of pigment epithelium-derived factor with enhanced antiangiogenic activity as potent anticancer agents

Konson A, Pradeep S, Seger R.

Cancer Res. 2010 Aug 1;70(15):6247-57. Epub 2010 Jul 7.  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20610633](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20610633)

### Cell-specific and lamin-dependent targeting of novel transmembrane proteins in the nuclear envelope

Malik P, Korfali N, Srsen V, Lazov V, Batrakou DG, Zuleger N, Kavanagh DM, Wilkie GS, Goldberg MW, Schirmer EC.

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### The complexity of phosphorylated H2AX foci formation and DNA repair assembly at DNA double-strand breaks

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### A Septin Diffusion Barrier at the Base of the Primary Cilium Maintains Ciliary Membrane Protein Distribution

Qicong Hu, Ljiljana Milenkovic, Hua Jin, Matthew P. Scott, Maxence V. Nachury, Elias T. Spiliotis, and W. James Nelson. *Science*. Jul 2010; 329: 436 - 439.  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20558667](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20558667)



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Cogger VC, McNerney GP, Nyunt T, DeLeve LD, McCourt P, Smedsrød B, Le Couëur DG, Huser TR. *J. Struct. Biol.* 171(3), p382-388, 2010  
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### Distinguishing direct from indirect roles for bicoid mRNA localization factors

Weil TT, Xanthakis D, Parton R, Dobbie I, Rabouille C, Gavis ER, Davis I. *Development* Vol. 137, 169-176, 2010  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20023172](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20023172)

### Identification and characterization of two novel primate-specific histone H3 variants, H3.X and H3.Y

Wiedemann SM, Mildner SN, Bönisch C, Israel L, Maiser A, Matheisl S, Straub T, Merkl R, Leonhardt H, Kremmer E, Schermelleh L, Hake SB. *J. Cell Biol.* Vol. 190 No. 5 777-791  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20819935](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20819935)

### Whole cell imaging reveals novel modular features of the exomembrane system of the malaria parasite, Plasmodium falciparum

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Posch M, Khoudoli GA, Swift S, King EM, Deluca JG, Swedlow JR. *J. Cell Biol.* Vol. 191 No. 1 61-74  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=20921135](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=20921135)

### Live cell imaging in Drosophila melanogaster

Parton RM, Vallés AM, Dobbie IM, Davis I. *Cold Spring Harb Protoc.* 2010 Apr;2010(4):pdb.top75.  
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### The Leukocyte Nuclear Envelope Proteome Varies with Cell Activation and Contains Novel Transmembrane Proteins That Affect Genome Architecture

Nadia Korfali, Gavin S. Wilkie, Selene K. Swanson, Vlastimil Srsen, Dzmitry G. Batrakou, Elizabeth A. L. Fairley, Poonam Malik, Nikolaj Zuleger, Alexander Goncharevich, Jose de los Heras, David A. Kelly, Alastair R. W. Kerr, Laurence Florens, and Eric C. Schirmer. *Mol. Cell. Proteomics*, Dec 2010; 9: 2571 - 2585.  
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### Interlock Formation and Coiling of Meiotic Chromosome Axes During Synapsis

Wang CJ, Carlton PM, Golubovskaya IN, Cande WZ. *Genetics*, Vol. 183: 905 - 915. 2009  
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### Non-genetic origins of cell-to-cell variability in TRAIL-induced apoptosis

Spencer SL, Gaudet S, Albeck JG, Burke JM, Sorger PK. *Nature*. Vol. 459(7245):428-32. 2009, Epub 2009 Apr 12.  
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### Mob4 plays a role in spindle focusing in Drosophila S2 cells

Trammell MA, Mahoney NM, Agard DA, Vale RD. *J. Cell Sci.* Vol 121: 1284 - 1292. 2008  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=18388316](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=18388316)

### Rapid telomere motions in live human cells analyzed by highly time-resolved microscopy

Wang X, Kam Z, Carlton PM, Xu L, Sedat JW, Blackburn EH. *Epigenetics Chromatin*. 2008 Oct 27;1(1):4.  
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## Super Resolution and Structured Illumination

### A New Wave of Cellular Imaging

Toomre D, Bewersdorf J. *Annu. Rev. Cell Dev. Biol.* 26:285-314  
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### Microscopy: Ever-increasing resolution

Chi K.R. *Nature*. Vol 462(7273):675-8. 2009  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=19956265](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=19956265)

### Breaking the resolution limit in light microscopy

Heintzmann R, Ficz G. *Methods Cell Biol.* Vol. 81:561-80. 2007 Review  
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### Nonlinear structured-illumination microscopy: Wide-field fluorescence imaging with theoretically unlimited resolution

Gustafsson MG. *PNAS*. Vol. 102 (37) 13081-13086, 2005  
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### Man the nanoscopes

Wells WA. *J Cell Biol.* Vol. 164(3):337-40.2004  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=14757748](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=14757748)

### Surpassing the lateral resolution limit by a factor of two using structured illumination microscopy

Gustafsson MG. *Journal of Microscopy*, Vol. 198 (2) 82-87, 2000  
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### Extended Resolution Fluorescence Microscopy

Gustafsson MG. *Current Opinion in Structural Biology*. Vol. 9 (5), 627-628, 1999  
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### Optical heterodyne detection of laser-induced gratings

Maznev AA, Nelson KA, Rogers JA. *Opt Lett.* Vol. 23(16):1319-21. 1998  
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## OMX Technology Described

### OMX. A New Platform for Multimodal, Multichannel Wide-Field Imaging

Dobbie IM, King E, Parton RM, Sedat JW, Swedlow JR, and Davis I. Chapter 10, pg 203 in *Live Cell Imaging*, 2nd Ed, Editors R.D. Goldman, J. R. Swedlow and D.L. Spector. Cold Spring Harbor Press, New York, 2010.  
[http://www.amazon.com/Live-Cell-Imaging-Laboratory-Manual/dp/0879698934/ref=sr\\_1\\_1?ie=UTF8&books&qid=1268439224&sr=8-1](http://www.amazon.com/Live-Cell-Imaging-Laboratory-Manual/dp/0879698934/ref=sr_1_1?ie=UTF8&books&qid=1268439224&sr=8-1)

### A guide to super-resolution fluorescence microscopy

Schermelleh L, Heintzmann R, Leonhardt H. *J Cell Biol.* 2010 Jul 19. [Epub ahead of print]  
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### Advanced hardware and software tools for fast multidimensional imaging of living cells

Swedlow JR. *Proc Natl Acad Sci U S A.* 2010 Sep 14;107(37):16005-6. Epub 2010 Aug 31.  
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### Three-Dimensional Resolution Doubling in Wide-Field Fluorescence Microscopy by Structured Illumination

Gustafsson MG, Shao L, Carlton PM, Wang CJ, Golubovskaya IN, Cande WZ, Agard DA, Sedat JW. *Biophysical Journal* Vol. 94, 4957-4970, 2008  
[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list\\_uids=18326650](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&dopt=AbstractPlus&list_uids=18326650)

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