

Complete list of publications reporting the successful use of Dualsystems' protein interaction systems

More than 60 publications in peer reviewed journals with an average impact factor of 9.6 show the high impact of our technologies.

A remorin protein interacts with symbiotic receptors and regulates bacterial infection. Lefebvre et al. *PNAS*, 107: 2343 - 2348. (2010)

Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. Aamann et al. *FASEB J*, 10.1096/fj.09-147991. (2010)

D-AKAP2 Interacts with Rab4 and Rab11 through Its RGS Domains and Regulates Transferrin Receptor Recycling. Eggers et al. *J. Biol. Chem.*, 284: 32869 - 32880. (2009)

Biogenesis of cytochrome b6 in photosynthetic membranes Saint-Marcoux et al. *J Cell Biol.* **185**(7):1195-207 (2009)

KDP-1 is a nuclear envelope KASH protein required for cell-cycle progression. McGee et al. *J. Cell Sci.*, 122: 2895 - 2905. (2009)

A Bacterial-Type ABC Transporter Is Involved in Aluminum Tolerance in Rice. Huang et al. *PLANT CELL*, 21: 655 - 667. (2009)

Mutations in the LRRK2 Roc-COR tandem domain link Parkinson's disease to Wnt signalling pathways. Sancho et al. *Hum. Mol. Genet.*, 18: 3955 - 3968. (2009)

FE65 Binds Teashirt, Inhibiting Expression of the Primate- Specific Caspase-4
Kajiwara et al. *PLOS one* 4(4):e5071, 1-17 (2009)

Memo is a cofilin-interacting protein that influences PLC γ 1 and cofilin activities, and is essential for maintaining directionality during ErbB2-induced tumor-cell migration. Meira et al. *J. Cell Sci.*, 122: 787 - 797. (2009)

Nyctalopin Interacts with Transient Receptor Potential Channels in Yeast
Bojang et al. *Invest. Ophthalmol. Vis. Sci.*, 50: 5176.(2009)

Pex3 peroxisome biogenesis proteins function in peroxisome inheritance as class V myosin receptors
Chang et al. *J Cell Biol.* **187**(2):233-46 (2009)

MS4A4B Is a G1TR-Associated Membrane Adapter, Expressed by Regulatory T Cells, Which Modulates T Cell Activation. Howie et al. *Journal of Immunology* **183**: 4197-4204. (2009)

Hypoxia Inducible Factor-2 α Stabilization and Maxi-K⁺ Channel β ₁-Subunit Gene Repression by Hypoxia in Cardiac Myocytes: Role in Preconditioning. Bautista et al. *Circ. Res.* 104: 1364 - 1372. (2009)

Heme Oxygenase-2 and Large-Conductance Ca²⁺-activated K⁺ Channels: Lung Vascular Effects of Hypoxia. Roth et al. *Am. J. Respir. Crit. Care Med.*, 180: 353 - 364. (2009)

Apple Sucrose Transporter SUT1 and Sorbitol Transporter SOT6 Interact with Cytochrome b5 to Regulate Their Affinity for Substrate Sugars. Fan et al. *Plant Physiol.* (2009)

EHD4 AND CDH23 ARE INTERACTING PARTNERS IN COCHLEAR HAIR CELLS. Sengupta et al. *JBC* 284: 20121 - 20129. (2009)

Identification of small subunits of mammalian serine palmitoyltransferase that confer distinct acyl-CoA substrate specificities. Han et al. *PNAS*, 106: 8186 - 8191. (2009)

Physical and Functional Interaction between the Dopamine Transporter and the Synaptic Vesicle Protein Synaptogyrin-3. Egaña et al. *J. Neurosci.*, 29: 4592 - 4604. (2009)

The Cyanobacterial Homologue of HCF 136/YCF48 Is a Component of an Early Photosystem II Assembly Complex and Is Important for Both the Efficient Assembly and Repair of Photosystem II in *Synechocystis* sp. PCC 6803. Komenda et al. *JBC* **283**:33 (2009)

Identification of ERGIC-53 as an intracellular transport receptor of alpha1-antitrypsin
Nyfeler et al. *J Cell Biol.* **180**(4):705-12 (2009)

Vascular Effects of Heme Oxygenase-2 and the BK-Channel in Acute, Sustained, and Chronic Alveolar Hypoxia.
Roth et al. *Am. J. Respir. Crit. Care Med.*, 179: A6252 (2009)

Identifying components of the hair-cell interactome involved in cochlear amplification. Zheng et al. *BMC Genomics* **10**: 127 (2009)

Interactions between membrane-bound cellulose synthases involved in the synthesis of the secondary cell wall. Timmers et al. *FEBS Letters* **583**: 978-982 (2009)

Analysis of the Chloroplast Protein Kinase Stt7 during State Transitions. Lemeille et al. *PLoS Biol.* 7(3): e1000045 (2009)

SLITRK1 binds 14-3-3 and regulates neurite outgrowth in a phosphorylation-dependent manner.
Kajiwara et al. *Biol Psychiatry.* 66(10):918-25 (2009)

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***Lotus japonicus* CASTOR and POLLUX Are Ion Channels Essential for Perinuclear Calcium Spiking in Legume Root Endosymbiosis.** Charpentier et al. *PLANT CELL*, 20: 3467 - 3479. (2008)

The Cyanobacterial Homologue of HCF136/YCF48 Is a Component of an Early Photosystem II Assembly Complex and Is Important for Both the Efficient Assembly and Repair of Photosystem II in *Synechocystis* sp. PCC 6803.
Komenda et al. *J. Biol. Chem.*; 283: 22390 - 22399. (2008)

Monitoring Protein-Protein Interactions between the Mammalian Integral Membrane Transporters and PDZ-interacting Partners Using a Modified Split-ubiquitin Membrane Yeast Two-hybrid System Gisler et al. *Mol. Cell. Proteomics*, 7: 1362 – 1377 (2008)

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LPA2 Is Required for Efficient Assembly of Photosystem II in *Arabidopsis thaliana*. Ma et al. *PLANT CELL*; 19: 1980 - 1993. (2007)

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Brain-type creatine kinase BB-CK interacts with the Golgi Matrix Protein GM130 in early prophase.
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Molecular dissection of NRG1-ERBB4 signaling implicates PTPRZ1 as a potential schizophrenia susceptibility gene. Buxbaum et al. *Mol. Psychiatry.* Apr 17 (2007)

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Ahnesorg et al. *Cell* **124**(2), 301-313 (2006)

Medaka *simplet* (*FAM53B*) belongs to a family of novel vertebrate genes controlling cell proliferation. Thermes et al. *Development*, 133: 1881 - 1890. (2006)

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Konecna et al. *Molecular Biology of the Cell* **17**, Issue 8, 3651-3663 (2006)

UNC-83 IS a KASH protein required for nuclear migration and is recruited to the outer nuclear membrane by a physical interaction with the SUN protein UNC-84. McGee et al. *Mol. Biol. Cell* **17**(4):1790-801 (2006)

Analysis of the oligomeric structure of the motor protein prestin. Zheng, J. et al. *J. Biol. Chem.* **281**(29):19916-19924 (2006)

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The yeast split-ubiquitin system to study chloroplast membrane protein interactions.

Pasch, J.C., Nickelsen, J., Schünemann, D. *Appl. Microbiol. Biotechnol.* **69**: 440-447 (2005)

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Yan, A., Wu, E., Lennarz, W.J. *Proc. Natl. Acad. Sci USA* **102**(20):7121-7126 (2005)

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A genetic system based on split-ubiquitin for the analysis of interactions between membrane proteins in vivo.

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Reviews about the DUALmembrane system

Membrane-based yeast two-hybrid system to detect protein interactions. Lentze et al. *Curr Protoc Protein Sci*, Chapter 19: Unit 19.17. (2008)

Methods for mapping of interaction networks involving membrane proteins. Hooker B.S., Bigelow D.J., Lin C.T. *Biochem. Biophys. Res. Commun.* Sep 19 (2007) epub ahead of print.

Yeast-based functional genomics and proteomics technologies: the first 15 years and beyond. Suter, B., Auerbach, D. and Stagljar, I. *Biotechniques* **40**(5), 625-644 (2006).

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Analysis of membrane protein interactions using yeast-based technologies. Stagljar, I. and Fields, S. *Trends Biochem. Sci.* **27**, 559-563 (2002)

Original publications using the DUALhunter system

Yeast split-ubiquitin-based cytosolic screening system to detect interactions between transcriptionally active proteins.

Möckli et al. *BioTechniques* **42**(6):725-730 (2007)