

## Publications

Our users' publications in EMBO J, JACS, J Biol Chem, Mol Cell Biol, Nature and PNAS USA report the discoveries of new protein structures, signaling mechanisms and NMR methods.

### 2014 publications

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#### Ulrich Günther and colleagues

- Günther UL, Chong MG, Volpari T, Koczula K, Atkins K, Bunce CM, FL Khanim (2014). Metabolic Fluxes in Cancer Metabolism. In Tumor Cell Metabolism. Pathways, Regulation, Biology (Eds.: S Mazurek, M Shoshan), 315-348. Springer. DOI 10.1007/978-3-7091-1824-5.
- JT Bjerrum, Y Wang, F Hao, M Coskun, C Ludwig, U Günther, OH Nielsen (2014). Metabonomics of human fecal extracts characterize ulcerative colitis, Crohn's disease and healthy individuals. *Metabolomics*, DOI 10.1007/s11306-014-0677-3.
- Khanim F, Davies N, Veliça P, Hayden R, Ride J, Pararasa C, Chong MG, Gunther U, Veerapen N, Winn P, Farmer R, Trivier E, Rigoreau L, Drayson M, Bunce C (2014). Selective AKR1C3 inhibitors do not recapitulate the anti-leukaemic activities of the pan-AKR1C inhibitor medroxyprogesterone acetate. *Br J Cancer*. 18;110(6):1506-16.

#### Arnout Kalverda and colleagues

- Kalverda AP, Gowdy J, Thompson GS, Homans SW, Henderson PJF & Patching SG (2014). Trosy NMR with a 52 KDa sugar transport protein and the binding of a small molecule inhibitor. *Molecular Membrane Biology* 31:131-140.

#### Mark Pfuhl and colleagues

- Rostkova E, Gautel M, Pfuhl M (2014). Solution NMR assignment of the heavy chain complex of the human cardiac myosin regulatory light chain. *Biomol NMR Assign*. doi: 10.1007/s12104-014-9543-5.

#### Michael Overduin and colleagues

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- RK Koppiseti, YG Fulcher, SH Prior, J Xu, M Lenoir, M Overduin, and SR Van Doren, Ambidextrous binding of cell and membrane bilayers by soluble matrix metalloproteinase-12 (2014). *Nature Communications*, in press.
- Lenoir, M, M Sugawara, J Kaur, LJ Ball, M Overduin, Structural Insights into the Activation of the RhoA GTPase by the Lbc Oncoprotein (2014). *J Biol Chem*, 289(34):23992-24004. PMID: PMC4156082.
- Gulati, M Jamshad, T Knowles, R Downing, N Cant, JB Koenderink, RC Ford, M Overduin, ID Kerr, TR Dafforn & A Rothnie (2014). Detergent free purification of ABC transporters, *Biochemical J*, 461(2):269-278. PMID: 24758594.
- Butterworth, M Overduin and AJ Barr, Targeting Protein Tyrosine Phosphatase SHP2 for therapeutic intervention in cancer (2014). *Future Med Chem*, in press.

#### Mark Viant and colleagues

- RP Ellis, JI Spicer, JJ Byrne, U Sommer, MR Viant, DA White, S Widdicombe (2014). <sup>1</sup>H-NMR metabolomics reveals contrasting response by male and female mussels exposed to reduced seawater pH, increased temperature and a pathogen. *Environ. Sci. Technol.* (published on-line ahead of print).
- TD Williams, IM Davies, H Wu, AM Diab, L Webster, MR Viant, JK Chipman, MJ Leaver, SG George, CF Moffatt, CD Robinson (2014). Molecular responses of European flounder (*Platichthys flesus*) chronically exposed to contaminated estuarine sediments. *Chemosphere* 108, 152-8.

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#### Rudolf Allemann and colleagues

- Wysoczanski P, Mart RJ, Loveridge EJ, Williams C, Whittaker SB-M, Crump MP, Allemann RK (2013). <sup>1</sup>H, <sup>13</sup>C and <sup>15</sup>N chemical shift assignments of unliganded Bcl-xL and its complex with a photoresponsive Bak-derived peptide. *Biomol NMR Assign*. 7(2):187-191.
- Loveridge EJ, Matthews SM, Williams C, Whittaker SB-M, Guenther UL, Evans RM, Dawson WM, Crump MP, Allemann RK (2013). Aliphatic (<sup>1</sup>H), (<sup>13</sup>C) and (<sup>15</sup>N) chemical shift assignments of dihydrofolate reductase from the psychropiezophile *Moritella profundain* complex with NADP(+) and folate. *Biomol NMR Assign*. 7(1):61-64.

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#### Ann Dixon and colleagues

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### Steve Young and colleagues

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- Figueiredo AM, Moore GR, Whittaker SB-M (2012). Understanding how small helical proteins fold: Conformational dynamics of Im proteins relevant to their folding landscapes. *Biochem Soc Trans*. 40(2):424-428.

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- Rodriguez DA, Alcarraz-Vizan G, Diaz-Moralli S, Reed MA, Gomez FP, Falciani F, Günther UL, Roca J, Cascante M (2012). Plasma metabolic profile in COPD patients: Effects of exercise and endurance training. *Metabolomics* 8(3):508-516.

### Michael Overduin and colleagues

- Rajesh S, Sridhar P, Tews AB, Feneant L, Cocquerel L, Ward DG, Berditchevski F, Overduin M (2012). Structural basis of ligand interactions of the large extracellular domain of tetraspanin CD81. *J Virol*. 86(18):9606-9616. PMCID: PMC3446547
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### Harald Schwalbe and colleagues

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### Christian Ludwig and colleagues

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