

MST Publication List

Application Note (2013)

"Thermodynamic characterization of DNA hybridization."
André T. and Breitsprecher D.

Bioorg Med Chem Lett (2013)

"Recent developments in targeting protein misfolding diseases."
Denny R. A., Gavrin L. K. and Saiah E.

ACS Chem Biol (2013)

"Launching Spiking Ligands into a Protein-Protein Interface: A Promising Strategy To Destabilize and Break Interface Formation in a tRNA Modifying Enzyme."
Immekus F., Barandun L. J., Betz M., Debaene F., Petiot S., Sanglier-Cianferani S., Reuter K., Diederich F. and Klebe G.

PLoS One (2013)

"Arabidopsis DEAD-box RNA helicase UAP56 interacts with both RNA and DNA as well as with mRNA export factors."
Kammel C., Thomaier M., Sorensen B. B., Schubert T., Langst G., Grasser M. and Grasser K. D.

EMBO J (2013)

"Structure-based in silico identification of ubiquitin-binding domains provides insights into the ALIX-V:ubiquitin complex and retrovirus budding."
Keren-Kaplan T., Attali I., Estrin M., Kuo L. S., Farkash E., Jerabek-Willemsen M., Blutraich N., Artzi S., Peri A., Freed E. O., Wolfson H. J. and Prag G.

Mol Plant (2013)

"Salt Stress Triggers Phosphorylation of the Arabidopsis Vacuolar K⁺ Channel TPK1 by Calcium-Dependent Protein Kinases (CDPKs)."
Latz A., Mehmer N., Zapf S., Mueller T. D., Wurzinger B., Pfister B., Csaszar E., Hedrich R., Teige M. and Becker D.

FASEB J (2013)

"The rotavirus nonstructural protein NSP5 coordinates a [2Fe-2S] iron-sulfur cluster that modulates interaction to RNA."
Martin D., Charpilienne A., Parent A., Boussac A., D'Autreaux B., Poupon J. and Poncet D.

Methods (2013)

"Microscale thermophoresis quantifies biomolecular interactions under previously challenging conditions."
Seidel S. A., Dijkman P. M., Lea W. A., van den Bogaart G., Jerabek-Willemsen M., Lasic A., Joseph J. S., Srinivasan P., Baaske P., Simeonov A., Katritch I., Melo F. A., Ladbury J. E., Schreiber G., Watts A., Braun D. and Duhr S.

Sci Rep (2013)

"Bapineuzumab captures the N-terminus of the Alzheimer's disease amyloid-beta peptide in a helical conformation."
Miles L. A., Crespi G. A., Doughty L. and Parker M. W.

Nucleic Acids Res (2013)

"Mechanisms of in vivo binding site selection of the hematopoietic master transcription factor PU.1."
Pham T. H., Minderjahn J., Schmidl C., Hoffmeister H., Schmidhofer S., Chen W., Langst G., Benner C. and Rehli M.

Nucleic Acids Res (2013)

"A capture approach for supercoiled plasmid DNA using a triplex-forming oligonucleotide."
Ruigrok V. J., Westra E. R., Brouns S. J., Escude C., Smidt H. and van der Oost J.

Proc Natl Acad Sci U S A (2013)

"Small-molecule inhibitors targeting G-protein-coupled Rho guanine nucleotide exchange factors."
Shang X., Marchioni F., Evelyn C. R., Sipes N., Zhou X., Seibel W., Wortman M. and Zheng Y.

Eur J Pharm Biopharm (2013)

"Identification of aggregation breakers for bevacizumab (Avastin(R)) self-association through similarity searching and interaction studies."

Westermaier Y.,Veurink M.,Riis-Johannessen T.,Guinchard S.,Gurny R. and Scapozza L.

Nature (2013)

"Receptor binding by a ferret-transmissible H5 avian influenza virus."

Xiong X.,Coombs P. J.,Martin S. R.,Liu J.,Xiao H.,McCauley J. W.,Locher K.,Walker P. A.,Collins P. J.,Kawaoka Y.,Skehel J. J. and Gamblin S. J.

Chembiochem (2013)

"The minimum activation peptide from ilvH can activate the catalytic subunit of AHAS from different species."

Zhao Y.,Niu C.,Wen X. and Xi Z.

Nucleic Acids Res (2013)

"Large-scale organization of ribosomal DNA chromatin is regulated by Tip5."

Zillner K.,Filarsky M.,Rachow K.,Weinberger M.,Langst G. and Nemeth A.

PLoS One (2013)

"Investigation of Specificity Determinants in Bacterial tRNA-Guanine Transglycosylase Reveals Queuine, the Substrate of Its Eucaryotic Counterpart, as Inhibitor."

Biela I.,Tidten-Luksch N.,Immekus F.,Glinca S.,Nguyen T. X.,Gerber H. D.,Heine A.,Klebe G. and Reuter K.

Mol Biol Cell (2013)

"The mitochondrial Hsp70 chaperone Ssq1 facilitates Fe/S cluster transfer from Isu1 to Grx5 by complex formation."

Uzarska M. A.,Dutkiewicz R.,Freibert S. A.,Lill R. and Muhlenhoff U.

Application Note (2013)

"On a razor's edge: watching DNaseI cutting DNA into pieces."

Roth H. M.,Jerabek-Willemsen M.,Mladenov E.,Nikolov V.,Iliakis G. and Duhr S.

Application Note (2013)

"The Decondensation factor 31 binds to mono-nucleosomes."

Schubert T.

Application Note (2013)

"The Decondensation factor 31 specifically binds to ssRNA but not to ssDNA or dsDNA."

Schubert T.

Application Note (2013)

"The Decondensation factor 31 specifically interacts with histones H3 and H4 but not H2A and H2B."

Schubert T.

FEBS Journal (2013)

"M. truncatula histidine-containing phosphotransfer protein: structural and biochemical insights into cytokinin transduction pathway in plants."

Ruszkowski M.,Brzezinski K.,Jedrzejczak R.,Dauter M.,Dauter Z.,Sikorski M. and Jaskolski M.

Antimicrob Agents Chemother (2013)

"Candida albicans mucin Msb2 is a broad-range protectant against antimicrobial peptides."

Swidergall M.,Ernst A. M. and Ernst J. F.

GIT Laboratory Journal (2013)

"Microscale Thermophoresis: Immobilization-free Binding Assays."

Duhr S. and Baaske P.

RNA Biol (2013)

"HMGA1 directly interacts with TAR to modulate basal and Tat-dependent HIV transcription."

Eilebrecht S.,Wilhelm E.,Benecke B.-J.,Bell B. and Benecke A. G.

Nat Struct Mol Biol (2013)

"A ternary AppA-PpsR-DNA complex mediates light regulation of photosynthesis-related gene expression."
Winkler A.,Heintz U.,Lindner R.,Reinstein J.,Shoeman R. L. and Schlichting I.

European Journal of Medicinal Chemistry (2013)

"Synthesis, characterization and in vitro activity of thrombin-binding DNA aptamers with triazole internucleotide linkages."

Varizhuk A. M.,Tsvetkov V. B.,Tatarinova O. N.,Kaluzhny D. N.,Florentiev V. L.,Timofeev E. N.,Shchyolkina A. K.,Borisova O. F.,Smirnov I. P.,Grokhovsky S. L.,Aseychev A. V. and Pozmogova G. E.

Biochimica et Biophysica Acta (BBA) - Biomembranes (2013)

"Ligand- and drug-binding studies of membrane proteins revealed through circular dichroism spectroscopy."
Siligardi G.,Hussain R.,Patching S. G. and Phillips-Jones M. K.

Proceedings of the National Academy of Sciences (2013)

"Thermodynamic origins of protein folding, allostery, and capsid formation in the human hepatitis B virus core protein."

Alexander C. G.,Jürgens M. C.,Shepherd D. A.,Freund S. M. V.,Ashcroft A. E. and Ferguson N.

J Biol Chem (2013)

"The Parkinson's disease protein DJ-1 binds metals and protects against metal induced cytotoxicity."

Bjorkblom B.,Adilbayeva A.,Maple-Grodem J.,Piston D.,Okvist M.,Xu X. M.,Brede C.,Larsen J. P. and Moller S. G.

PNAS (2013)

"CTIP2 is a negative regulator of P-TEFb."

Cherrier T.,Le Douce V.,Eilebrecht S.,Riclet R.,Marban C.,Dequiedt F.,Goumon Y.,Paillart J.-C.,Mericskay M.,Parlakian A.,Bausero P.,Abbas W.,Herbein G.,Kurdistani S. K.,Grana X.,Van Driessche B.,Schwartz C.,Candolfi E.,Benecke A. G.,Van Lint C. and Rohr O.

Angewandte Chemie International Edition (2013)

"Cyclopleckins Are Covalent Inhibitors of the Pleckstrin Homology Domain of Cytohesin."

Hussein M.,Bettio M.,Schmitz A.,Hannam J. S.,Theis J.,Mayer G.,Dosa S.,Gütschow M. and Famulok M.

Proceedings of the National Academy of Sciences (2013)

"Ex-527 inhibits Sirtuins by exploiting their unique NAD⁺-dependent deacetylation mechanism."

Gertz M.,Fischer F.,Nguyen G. T. T.,Lakshminarasimhan M.,Schutkowski M.,Weyand M. and Steegborn C.

PLoS One (2013)

"The Asymmetric Binding of PGC-1 α to the ERR α and ERR γ Nuclear Receptor Homodimers Involves a Similar Recognition Mechanism."

Takacs M.,Petoukhov M. V.,Atkinson R. A.,Roblin P.,Ogi F.-X.,Demeler B.,Potier N.,Chebaro Y.,Dejaegere A.,Svergun D. I.,Moras D. and Billas I. M. L.

Acta Crystallographica Section D (2013)

"Structures of human sirtuin 3 complexes with ADP-ribose and with carba-NAD⁺ and SRT1720: binding details and inhibition mechanism."

Nguyen G. T. T.,Schaefer S.,Gertz M.,Weyand M. and Steegborn C.

Mol Plant (2013)

"Evolution of C4 Phosphoenolpyruvate Carboxylase: Enhanced Feedback Inhibitor Tolerance Is Determined by a Single Residue."

Paulus J. K.,Niehus C. and Groth G.

Journal of Visualized Experiments (2013)

"Protein Purification-free Method of Binding Affinity Determination by Microscale Thermophoresis."

Khavrutskii L.,Yeh J.,Timofeeva O.,Tarasov S. G.,Pritt S.,Stefanisko K. and Tarasova N.

Journal of Biological Chemistry (2013)

"A monoclonal antibody (MCPR3-7) interfering with the activity of proteinase 3 by an allosteric mechanism."

Hinkofer L. C.,Seidel S. A. I.,Korkmaz B.,Silva F.,Hummel A. M.,Braun D.,Jenne D. E. and Specks U.

Mol Microbiol (2013)

"Interaction of Penicillin-Binding Protein 2x and Ser/Thr protein kinase StkP, two key players in Streptococcus pneumoniae R6 morphogenesis."

Morlot C., Bayle L., Jacq M., Fleurie A., Tourcier G., Galisson F., Vernet T., Grangeasse C. and Di Guilmi A. M.

PLoS One (2013)

"Expression and Function of the Lipocalin-2 (24p3/NGAL) Receptor in Rodent and Human Intestinal Epithelia."

Langelueddecke C., Roussa E., Fenton R. A. and Thévenod F.

Journal of Biological Chemistry (2013)

"SLP-76 sterile alpha motif (SAM) and individual H5 alpha helix mediates oligomer formation for microclusters and T-cell activation."

Liu H., Thaker Y. R., Stagg L., Schneider H., Ladbury J. and Rudd C. E.

Mol Microbiol (2013)

"The crystal structure of the cell division amidase AmiC reveals the fold of the AMIN domain, a new peptidoglycan binding domain."

Rocaboy M., Herman R., Sauvage E., Remaut H., Moonens K., Terrak M., Charlier P. and Kerff F.

mBio (2013)

"CspA from Borrelia burgdorferi Inhibits the Terminal Complement Pathway."

Hallström T., Siegel C., Mörgelin M., Kraiczy P., Skerka C. and Zipfel P. F.

Natural Product Reports (2013)

"Targeting heat-shock-protein 90 (Hsp90) by natural products: geldanamycin, a show case in cancer therapy."

Franke J., Eichner S., Zeilinger C. and Kirschning A.

Cellular Signalling (2013)

"Domain-specific phosphomimetic mutation allows dissection of different protein kinase C (PKC) isotype-triggered activities of the RNA-binding protein HuR."

Schulz S., Doller A., Pardini N. R., Wilce J. A., Pfeilschifter J. and Eberhardt W.

Acta Crystallographica Section D (2013)

"High-affinity inhibitors of Zymomonas mobilis tRNA-guanine transglycosylase through convergent optimization."

Barandun L. J., Immekus F., Kohler P. C., Ritschel T., Heine A., Orlando P., Klebe G. and Diederich F.

Science (2013)

"Molecular Basis of Tubulin Transport Within the Cilium by IFT74 and IFT81."

Bhogaraju S., Cajanek L., Fort C., Blisnick T., Weber K., Taschner M., Mizuno N., Lamla S., Bastin P., Nigg E. A. and Lorentzen E.

Journal of Biological Chemistry (2013)

"Functional Characterization of Human Myosin-18A and its Interaction with F-actin and GOLPH3."

Taft M. H., Behrmann E., Munske-Weidemann L.-C., Thiel C., Raunser S. and Manstein D. J.

PLoS Genet (2013)

"Chromatin-Specific Regulation of Mammalian rDNA Transcription by Clustered TTF-I Binding Sites."

Diermeier S. D., Németh A., Rehli M., Grummt I. and Längst G.

Methods (2013)

"Production of pure and functional RNA for in vitro reconstitution experiments."

Edelmann F. T., Niedner A. and Niessing D.

Journal of Biological Chemistry (2013)

"Quantification of interaction strengths between chaperones and tetratricopeptide repeat domain containing membrane proteins."

Schweiger R., Soll J., Jung K., Heermann R. and Schwenkert S.

J Biol Chem (2012)

"Mediation of the antiapoptotic activity of Bcl-xL protein upon interaction with VDAC1 protein."
Arbel N., Ben-Hail D. and Shoshan-Barmatz V.

RNA Biol (2012)

"Drosophila Pur-alpha binds to trinucleotide-repeat containing cellular RNAs and translocates to the early oocyte."
Aumiller V., Graebisch A., Kremmer E., Niessing D. and Forstemann K.

J Biol Chem (2012)

"Evaluation of riproximin binding properties reveals a novel mechanism for cellular targeting."
Bayer H., Essig K., Stanzel S., Frank M., Gildersleeve J. C., Berger M. R. and Voss C.

Biochem J (2012)

"Molecular structure of human GM-CSF in complex with a disease-associated anti-human GM-CSF autoantibody and its potential biological implications."
Blech M., Seeliger D., Kistler B., Bauer M. M., Hafner M., Horer S., Zeeb M., Nar H. and Park J. E.

Chem Biol (2012)

"Rational design of small molecule inhibitors targeting the Rac GTPase-p67(phox) signaling axis in inflammation."
Bosco E. E., Kumar S., Marchioni F., Biesiada J., Kordos M., Szczur K., Meller J., Seibel W., Mizrahi A., Pick E., Filippi M. D. and Zheng Y.

Proc Natl Acad Sci U S A (2012)

"Legume receptors perceive the rhizobial lipochitin oligosaccharide signal molecules by direct binding."
Broghammer A., Krusell L., Blaise M., Sauer J., Sullivan J. T., Maolanon N., Vinther M., Lorentzen A., Madsen E. B., Jensen K. J., Roepstorff P., Thirup S., Ronson C. W., Thygesen M. B. and Stougaard J.

Nucleic Acids Res (2012)

"Saccharomyces cerevisiae Ng13p is an active 3'-5' exonuclease with a specificity towards poly-A RNA reminiscent of cellular deadenylases."
Feddersen A., Dedic E., Poulsen E. G., Schmid M., Van L. B., Jensen T. H. and Brodersen D. E.

J Am Chem Soc (2012)

"Catalytic protein modification with dirhodium metalloptides: specificity in designed and natural systems."
Chen Z., Vohidov F., Coughlin J. M., Stagg L. J., Arold S. T., Ladbury J. E. and Ball Z. T.

Cell (2012)

"Inhibition of basal FGF receptor signaling by dimeric Grb2."
Lin C. C., Melo F. A., Ghosh R., Suen K. M., Stagg L. J., Kirkpatrick J., Arold S. T., Ahmed Z. and Ladbury J. E.

Nucleic Acids Res (2012)

"Interaction of two photoreceptors in the regulation of bacterial photosynthesis genes."
Metz S., Haberzettl K., Fruhwirth S., Teich K., Hasewinkel C. and Klug G.

Mol Microbiol (2012)

"Structural insight in histo-blood group binding by the F18 fimbrial adhesin FedF."
Moonens K., Bouckaert J., Coddens A., Tran T., Panjikar S., De Kerpel M., Cox E., Remaut H. and De Greve H.

J Med Chem (2012)

"Discovery, structure-activity relationship, and biological evaluation of noninhibitory small molecule chaperones of glucocerebrosidase."
Patnaik S., Zheng W., Choi J. H., Motabar O., Southall N., Westbroek W., Lea W. A., Velayati A., Goldin E., Sidransky E., Leister W. and Marugan J. J.

PLoS One (2012)

"Probing cocaine-antibody interactions in buffer and human serum."
Ramakrishnan M., Alves De Melo F., Kinsey B. M., Ladbury J. E., Kosten T. R. and Orson F. M.

J Mol Biol (2012)

"Engineering aggregation resistance in IgG by two independent mechanisms: lessons from comparison of Pichia pastoris and mammalian cell expression."
Schaefer J. V. and Pluckthun A.

Protein Eng Des Sel (2012)

"Transfer of engineered biophysical properties between different antibody formats and expression systems."
Schaefer J. V. and Pluckthun A.

Mol Cell (2012)

"Df31 protein and snoRNAs maintain accessible higher-order structures of chromatin."
Schubert T., Pusch M. C., Diermeier S., Benes V., Kremmer E., Imhof A. and Langst G.

Angew Chem Int Ed Engl (2012)

"Label-free microscale thermophoresis discriminates sites and affinity of protein-ligand binding."
Seidel S. A., Wienken C. J., Geissler S., Jerabek-Willemsen M., Duhr S., Reiter A., Trauner D., Braun D. and Baaske P.

Chem Biol (2012)

"Rational design of small molecule inhibitors targeting RhoA subfamily Rho GTPases."
Shang X., Marchioni F., Sipes N., Evelyn C. R., Jerabek-Willemsen M., Duhr S., Seibel W., Wortman M. and Zheng Y.

Protein Expr Purif (2012)

"Recombinant expression and purification of human TATA binding protein using a chimeric fusion."
Silvers R., Saxena K., Kudlinzki D. and Schwalbe H.

J Biol Chem (2012)

"Mechanisms of unphosphorylated STAT3 transcription factor binding to DNA."
Timofeeva O. A., Chasovskikh S., Lonskaya I., Tarasova N. I., Khavrutskii L., Tarasov S. G., Zhang X., Korostyshevskiy V. R., Cheema A., Zhang L., Dakshanamurthy S., Brown M. L. and Dritschilo A.

J Biol Chem (2012)

"Inhibition of transmitter release and attenuation of anti-retroviral-associated and tibial nerve injury-related painful peripheral neuropathy by novel synthetic Ca²⁺ channel peptides."
Wilson S. M., Schmutzler B. S., Brittain J. M., Dustrude E. T., Ripsch M. S., Pellman J. J., Yeum T. S., Hurley J. H., Hingtgen C. M., White F. A. and Khanna R.

J Med Chem (2012)

"Discovery of a novel noniminosugar acid alpha glucosidase chaperone series."
Xiao J., Westbroek W., Motabar O., Lea W. A., Hu X., Velayati A., Zheng W., Southall N., Gustafson A. M., Goldin E., Sidransky E., Liu K., Simeonov A., Tamargo R. J., Ribes A., Matalonga L., Ferrer M. and Marugan J. J.

Anal Chem (2012)

"Direct detection of antibody concentration and affinity in human serum using microscale thermophoresis."
Lippok S., Seidel S. A., Duhr S., Uhland K., Holthoff H. P., Jenne D. and Braun D.

J Biol Chem (2012)

"Phosphatidylinositol 4,5-bisphosphate increases Ca²⁺ affinity of synaptotagmin-1 by 40-fold."
van den Bogaart G., Meyenberg K., Diederichsen U. and Jahn R.

Application Note (2012)

"Characterization of DNA/RNA triplex formation."
Filarsky M.

Application Note (2012)

"Using MST to analyse the binding of Nanobodies and Nanobody-Fc fusion proteins to human CD38."
Unger M., Koch-Nolte F., Lee H. C., Blanke S. and Jerabek-Willemsen M.

Application Note (2012)

"Using MST to analyse the binding of the β -Lactamase TEM1 to BLIP."
Schreiber G. and Jerabek-Willemsen M.

Proceedings of the National Academy of Sciences (2012)

"RNA-seq pinpoints a Xanthomonas TAL-effector activated resistance gene in a large-crop genome."
Strauß T., van Poecke R. M. P., Strauß A., Römer P., Minsavage G. V., Singh S., Wolf C., Strauß A., Kim S., Lee H.-A., Yeom S.-I., Parniske M., Stall R. E., Jones J. B., Choi D., Prins M. and Lahaye T.

Nucleic Acids Res (2012)

"Study of E. coli Hfq's RNA annealing acceleration and duplex destabilization activities using substrates with different GC-contents."
Doetsch M., Stampfl S., Fürtig B., Beich-Frandsen M., Saxena K., Lybecker M. and Schroeder R.

Journal of Biological Chemistry (2012)

"Diversification of the structural determinants of fibroblast growth factor-heparin interactions; implications for binding specificity."

Xu R., Ori A., Rudd T. R., Uniewicz K. A., Ahmed Y. A., Guimond S. E., Skidmore M. A., Siligardi G., Yates E. A. and Fernig D. G.

Shang X. and Zheng Y. (2012). Rational Design of Rho GTPase-Targeting Inhibitors. Rational Drug Design. Y. Zheng, Humana Press. **928**: 29-38.

J Med Chem (2012)

"Structure-Based Discovery of Substituted 4,5'-Bithiazoles as Novel DNA Gyrase Inhibitors."
Brvar M., Perdiš A., Renko M., Anderluh G., Turk D. and Solmajer T.

Journal of the American Society of Nephrology (2012)

"Histones from Dying Renal Cells Aggravate Kidney Injury via TLR2 and TLR4."
Allam R., Scherbaum C. R., Darisipudi M. N., Mulay S. R., Hägele H., Lichtnekert J., Hagemann J. H., Rupanagudi K. V., Ryu M., Schwarzenberger C., Hohenstein B., Hugo C., Uhl B., Reichel C. A., Krombach F., Monestier M., Liapis H., Moreth K., Schaefer L. and Anders H.-J.

ACS Chem Biol (2012)

"Colloidal Aggregation Affects the Efficacy of Anticancer Drugs in Cell Culture."
Owen S. C., Doak A. K., Wassam P., Shoichet M. S. and Shoichet B. K.

Molecular Pharmacology (2012)

"Small Molecule Targeting of PCNA Chromatin Association Inhibits Tumor Cell Growth."
Tan Z., Wortman M., Dillehay K. L., Seibel W. L., Evelyn C. R., Smith S. J., Malkas L. H., Zheng Y., Lu S. and Dong Z.

Molecular BioSystems (2012)

"Insertion of T4-lysozyme (T4L) can be a useful tool for studying olfactory-related GPCRs."
Corin K., Pick H., Baaske P., Cook B. L., Duhr S., Wienken C. J., Braun D., Vogel H. and Zhang S.

Journal of Biological Chemistry (2012)

"The Goodpasture-antigen binding protein / ceramide transporter binds to human serum amyloid P-component and is present in brain amyloid plaques."

Mencarelli C., Bode G. H., Losen M., Kulharia M., Molenaar P. C., Veerhuis R., Steinbusch H. W. M., De Baets M. H., Nicolaes G. A. F. and Martinez-Martinez P.

Chemical Society Reviews (2012)

"Designer peptide surfactants stabilize diverse functional membrane proteins."
Koutsopoulos S., Kaiser L., Eriksson H. M. and Zhang S.

BIOSpektrum (2012)

"Biomolekulare Interaktionen: Manche mögen's heiß."
Jerabek-Willemsen M., Duhr S. and Baaske P.

Methods Mol Biol (2012)

"Microscale thermophoresis as a sensitive method to quantify protein: nucleic acid interactions in solution."
Zillner K., Jerabek-Willemsen M., Duhr S., Braun D., Langst G. and Baaske P.

Sci Rep (2011)

"Structure and function analyses of the purified GPCR human vomeronasal type 1 receptor 1."
Corin K., Baaske P., Geissler S., Wienken C. J., Duhr S., Braun D. and Zhang S.

J Biol Chem (2011)

"NF-kappaB essential modulator (NEMO) interaction with linear and lys-63 ubiquitin chains contributes to NF-kappaB activation."

Hadian K., Griesbach R. A., Dornauer S., Wanger T. M., Nagel D., Metlitzky M., Beisker W., Schmidt-Supprian M. and Krappmann D.

Assay Drug Dev Technol (2011)

"Molecular interaction studies using microscale thermophoresis."

Jerabek-Willemsen M., Wienken C. J., Braun D., Baaske P. and Duhr S.

J Comput Aided Mol Des (2011)

"Fragment-based lead discovery: challenges and opportunities."

Sun C., Petros A. M. and Hajduk P. J.

BMC Struct Biol (2011)

"Atomic resolution structure of EhpR: phenazine resistance in Enterobacter agglomerans Eh1087 follows principles of bleomycin/mitomycin C resistance in other bacteria."

Yu S., Vit A., Devenish S., Mahanty H. K., Itzen A., Goody R. S. and Blankenfeldt W.

PLoS One (2011)

"A robust and rapid method of producing soluble, stable, and functional G-protein coupled receptors."

Corin K., Baaske P., Ravel D. B., Song J., Brown E., Wang X., Geissler S., Wienken C. J., Jerabek-Willemsen M., Duhr S., Braun D. and Zhang S.

Nat Struct Mol Biol (2011)

"Synaptotagmin-1 may be a distance regulator acting upstream of SNARE nucleation."

van den Bogaart G., Thutupalli S., Risselada J. H., Meyenberg K., Holt M., Riedel D., Diederichsen U., Herminghaus S., Grubmuller H. and Jahn R.

Application Note (2011)

"Binding of the geldanamycin derivative 17-DMAG to Hsp90 measured with fluorescence label and label-free."
McLaughlin S. H.

Application Note (2011)

"Interactions of Liposome embedded SNARE Proteins."

Meyenberg K. and Van den Bogaart G.

Application Note (2011)

"Competitive Assay Approach: Binding of Small Molecules to the Active Form of p38."

Saxena K. and Jerabek-Willemsen M.

Application Note (2011)

"Determination of thermodynamic parameters ΔG and ΔH of a small molecule binding to p38 using MST."

Griesbach J.

Application Note (2011)

"Binding of Calcium Ions to Synaptotagmin measured with fluorescence label and label-free."

Meyenberg K. and Van den Bogaart G.

Application Note (2011)

"Binding of Histone peptides to Chromatin assembly factor I (CAF-I) p48 subunit."

Zhang W.

Application Note (2011)

"Interactions of small fragment-like molecules with a model protein - Carbonic anhydrase II."

Parent A., Pietschner M. and Rak A.

Application Note (2011)

"Microscale Thermophoresis Measurements on in vitro Synthesized Proteins."
Gerrits M. and Griesbach J.

PLoS One (2011)

"Designer lipid-like peptides: a class of detergents for studying functional olfactory receptors using commercial cell-free systems."

Corin K., Baaske P., Ravel D. B., Song J., Brown E., Wang X., Wienken C. J., Jerabek-Willemsen M., Duhr S., Luo Y., Braun D. and Zhang S.

Proc Natl Acad Sci U S A (2011)

"Peptide surfactants for cell-free production of functional G protein-coupled receptors."

Wang X., Corin K., Baaske P., Wienken C. J., Jerabek-Willemsen M., Duhr S., Braun D. and Zhang S.

J Comput Aided Mol Des (2011)

"A comparative study of fragment screening methods on the p38 α kinase: new methods, new insights."

Pollack S., Beyer K., Lock C., Müller I., Sheppard D., Lipkin M., Hardick D., Blurton P., Leonard P., Hubbard P., Todd D., Richardson C., Ahrens T., Baader M., Hafenbradl D., Hilyard K. and Bürlü R.

Nucleic Acids Res (2011)

"Thermophoretic melting curves quantify the conformation and stability of RNA and DNA."

Wienken C. J., Baaske P., Duhr S. and Braun D.

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