

Volker Dotsch

List of Publications by Year in descending order

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235
papers

16,754
citations

15504

65
h-index

18130

120
g-index

271
all docs

271
docs citations

271
times ranked

18867
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | p63, a p53 Homolog at 3q27, Encodes Multiple Products with Transactivating, Death-Inducing, and Dominant-Negative Activities. <i>Molecular Cell</i> , 1998, 2, 305-316. | 9.7 | 1,943 |
| 2 | Phosphorylation of the Autophagy Receptor Optineurin Restricts <i>Salmonella</i> Growth. <i>Science</i> , 2011, 333, 228-233. | 12.6 | 1,125 |
| 3 | Nix is a selective autophagy receptor for mitochondrial clearance. <i>EMBO Reports</i> , 2010, 11, 45-51. | 4.5 | 1,045 |
| 4 | Interactions between Autophagy Receptors and Ubiquitin-like Proteins Form the Molecular Basis for Selective Autophagy. <i>Molecular Cell</i> , 2014, 53, 167-178. | 9.7 | 849 |
| 5 | Intramolecular Masking of Nuclear Import Signal on NF-AT4 by Casein Kinase I and MEKK1. <i>Cell</i> , 1998, 93, 851-861. | 28.9 | 291 |
| 6 | Processing of multi-dimensional NMR data with the new software PROSA. <i>Journal of Biomolecular NMR</i> , 1992, 2, 619-629. | 2.8 | 281 |
| 7 | Loss of p63 and its microRNA-205 target results in enhanced cell migration and metastasis in prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15312-15317. | 7.1 | 251 |
| 8 | Preparative scale expression of membrane proteins in <i>Escherichia coli</i> -based continuous exchange cell-free systems. <i>Nature Protocols</i> , 2007, 2, 2945-2957. | 12.0 | 240 |
| 9 | High level cell-free expression and specific labeling of integral membrane proteins. <i>FEBS Journal</i> , 2004, 271, 568-580. | 0.2 | 230 |
| 10 | Phosphorylation of the mitochondrial autophagy receptor Nix enhances its interaction with LC3 proteins. <i>Scientific Reports</i> , 2017, 7, 1131. | 3.3 | 203 |
| 11 | HUWE1 E3 ligase promotes PINK1/PARKIN-independent mitophagy by regulating AMBRA1 activation via IKK β . <i>Nature Communications</i> , 2018, 9, 3755. | 12.8 | 198 |
| 12 | High-Resolution Macromolecular NMR Spectroscopy Inside Living Cells. <i>Journal of the American Chemical Society</i> , 2001, 123, 2446-2447. | 13.7 | 187 |
| 13 | Evaluation of detergents for the soluble expression of α -helical and β -barrel-type integral membrane proteins by a preparative scale individual cell-free expression system. <i>FEBS Journal</i> , 2005, 272, 6024-6038. | 4.7 | 186 |
| 14 | A C-Terminal Inhibitory Domain Controls the Activity of p63 by an Intramolecular Mechanism. <i>Molecular and Cellular Biology</i> , 2002, 22, 8601-8611. | 2.3 | 183 |
| 15 | Long-Range Distance Measurements on Nucleic Acids in Cells by Pulsed EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5070-5074. | 13.8 | 163 |
| 16 | Solution NMR Structure of Proteorhodopsin. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11942-11946. | 13.8 | 162 |
| 17 | Low-Conductivity Buffers for High-Sensitivity NMR Measurements. <i>Journal of the American Chemical Society</i> , 2002, 124, 12013-12019. | 13.7 | 161 |
| 18 | In-Cell NMR Spectroscopy. <i>Biochemistry</i> , 2001, 40, 14317-14323. | 2.5 | 159 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Conformational Switches Modulate Protein Interactions in Peptide Antibiotic Synthetases. <i>Science</i> , 2006, 312, 273-276. | 12.6 | 149 |
| 20 | The parallel G-quadruplex structure of vertebrate telomeric repeat sequences is not the preferred folding topology under physiological conditions. <i>Nucleic Acids Research</i> , 2011, 39, 5768-5775. | 14.5 | 143 |
| 21 | E3-Independent Monoubiquitination of Ubiquitin-Binding Proteins. <i>Molecular Cell</i> , 2007, 26, 891-898. | 9.7 | 132 |
| 22 | Structural and functional analysis of the GABARAP interaction motif (GIM). <i>EMBO Reports</i> , 2017, 18, 1382-1396. | 4.5 | 129 |
| 23 | Evaluation of Parameters Critical to Observing Proteins Inside Living <i>Escherichia coli</i> by In-Cell NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 8895-8901. | 13.7 | 127 |
| 24 | Investigating macromolecules inside cultured and injected cells by in-cell NMR spectroscopy. <i>Nature Protocols</i> , 2006, 1, 2701-2709. | 12.0 | 120 |
| 25 | Cell-free expression as an emerging technique for the large scale production of integral membrane protein. <i>FEBS Journal</i> , 2006, 273, 4141-4153. | 4.7 | 119 |
| 26 | DNA Damage in Oocytes Induces a Switch of the Quality Control Factor TP53 from Dimer to Tetramer. <i>Cell</i> , 2011, 144, 566-576. | 28.9 | 117 |
| 27 | Structural basis for the selectivity of the external thioesterase of the surfactin synthetase. <i>Nature</i> , 2008, 454, 907-911. | 27.8 | 112 |
| 28 | Oocyte DNA damage quality control requires consecutive interplay of CHK2 and CK1 to activate p53. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 261-269. | 8.2 | 112 |
| 29 | Cell-free production of G protein-coupled receptors for functional and structural studies. <i>Journal of Structural Biology</i> , 2007, 158, 482-493. | 2.8 | 111 |
| 30 | TECPR2 Cooperates with LC3C to Regulate COPII-Dependent ER Export. <i>Molecular Cell</i> , 2015, 60, 89-104. | 9.7 | 111 |
| 31 | Structural Basis for Tail-Anchored Membrane Protein Biogenesis by the Get3-Receptor Complex. <i>Science</i> , 2011, 333, 758-762. | 12.6 | 110 |
| 32 | Involvement of the ubiquitin-like domain of TBK1/IKK-i kinases in regulation of IFN-inducible genes. <i>EMBO Journal</i> , 2007, 26, 3451-3462. | 7.8 | 108 |
| 33 | Gain-of-function mutation in ADULT syndrome reveals the presence of a second transactivation domain in p53. <i>Human Molecular Genetics</i> , 2002, 11, 799-804. | 2.9 | 104 |
| 34 | Unusual Rel-like architecture in the DNA-binding domain of the transcription factor NFATc. <i>Nature</i> , 1997, 385, 172-176. | 27.8 | 103 |
| 35 | High-Resolution Insight into G-Overhang Architecture. <i>Journal of the American Chemical Society</i> , 2013, 135, 2816-2824. | 13.7 | 103 |
| 36 | Solution Structure of the Core NFATC1/DNA Complex. <i>Cell</i> , 1998, 92, 687-696. | 28.9 | 101 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Evaluation of Parameters Critical for Observing Nucleic Acids Inside Living <i>Xenopus laevis</i> Oocytes by In-Cell NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 15761-15768. | 13.7 | 96 |
| 38 | Definition of the Switch Surface in the Solution Structure of Cdc42Hs. <i>Biochemistry</i> , 1997, 36, 8755-8766. | 2.5 | 95 |
| 39 | Production of membrane proteins using cell-free expression systems. <i>Proteomics</i> , 2008, 8, 3933-3946. | 2.2 | 95 |
| 40 | New Carbon-Detected Protein NMR Experiments Using CryoProbes. <i>Journal of the American Chemical Society</i> , 2000, 122, 3554-3555. | 13.7 | 92 |
| 41 | Advances in cell-free protein synthesis for the functional and structural analysis of membrane proteins. <i>New Biotechnology</i> , 2011, 28, 262-271. | 4.4 | 92 |
| 42 | Structural basis for phosphorylation-triggered autophagic clearance of <i>Salmonella</i> . <i>Biochemical Journal</i> , 2013, 454, 459-466. | 3.7 | 92 |
| 43 | In-Cell NMR and EPR Spectroscopy of Biomacromolecules. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10300-10314. | 13.8 | 91 |
| 44 | Regulation of Phosphoribosyl-Linked Serine Ubiquitination by Deubiquitinases DupA and DupB. <i>Molecular Cell</i> , 2020, 77, 164-179.e6. | 9.7 | 91 |
| 45 | In-Cell NMR Spectroscopy. <i>Methods in Enzymology</i> , 2005, 394, 17-41. | 1.0 | 89 |
| 46 | The GYF domain is a novel structural fold that is involved in lymphoid signaling through proline-rich sequences. <i>Nature Structural Biology</i> , 1999, 6, 656-660. | 9.7 | 86 |
| 47 | Characterization of the Interaction of GABARAPL-1 with the LIR Motif of NBR1. <i>Journal of Molecular Biology</i> , 2011, 410, 477-487. | 4.2 | 86 |
| 48 | Structural evolution of C-terminal domains in the p53 family. <i>EMBO Journal</i> , 2007, 26, 3463-3473. | 7.8 | 85 |
| 49 | Methyl Groups as Probes for Proteins and Complexes in In-Cell NMR Experiments. <i>Journal of the American Chemical Society</i> , 2004, 126, 7119-7125. | 13.7 | 84 |
| 50 | Cell-free expression and stable isotope labelling strategies for membrane proteins. <i>Journal of Biomolecular NMR</i> , 2010, 46, 33-43. | 2.8 | 81 |
| 51 | Cell-Free Expression and Assembly of ATP Synthase. <i>Journal of Molecular Biology</i> , 2011, 413, 593-603. | 4.2 | 81 |
| 52 | Caspase-2 is an initiator caspase responsible for pore-forming toxin-mediated apoptosis. <i>EMBO Journal</i> , 2012, 31, 2615-2628. | 7.8 | 81 |
| 53 | Donated chemical probes for open science. <i>ELife</i> , 2018, 7, . | 6.0 | 80 |
| 54 | A method for integrative structure determination of protein-protein complexes. <i>Bioinformatics</i> , 2012, 28, 3282-3289. | 4.1 | 78 |

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|----|--|------|-----------|
| 55 | Molecular Crowding Drives Active Pin1 into Nonspecific Complexes with Endogenous Proteins Prior to Substrate Recognition. <i>Journal of the American Chemical Society</i> , 2013, 135, 13796-13803. | 13.7 | 76 |
| 56 | Membrane protein production in <i>Escherichia coli</i> cell-free lysates. <i>FEBS Letters</i> , 2015, 589, 1713-1722. | 2.8 | 76 |
| 57 | Analyzing native membrane protein assembly in nanodiscs by combined non-covalent mass spectrometry and synthetic biology. <i>ELife</i> , 2017, 6, . | 6.0 | 75 |
| 58 | An Activation Switch in the Ligand Binding Pocket of the C5a Receptor. <i>Journal of Biological Chemistry</i> , 2001, 276, 3394-3400. | 3.4 | 74 |
| 59 | CUL3-KBTBD6/KBTBD7 Ubiquitin Ligase Cooperates with GABARAP Proteins to Spatially Restrict TIAM1-RAC1 Signaling. <i>Molecular Cell</i> , 2015, 57, 995-1010. | 9.7 | 74 |
| 60 | A Methylation-Dependent Electrostatic Switch Controls DNA Repair and Transcriptional Activation by <i>E. coli</i> Ada. <i>Molecular Cell</i> , 2005, 20, 117-129. | 9.7 | 73 |
| 61 | Membrane Protein Expression in Cell-Free Systems. <i>Methods in Molecular Biology</i> , 2010, 601, 165-186. | 0.9 | 73 |
| 62 | Structural investigation of the C-terminal catalytic fragment of presenilin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9644-9649. | 7.1 | 72 |
| 63 | Efficient Strategy for the Rapid Backbone Assignment of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2005, 127, 13504-13505. | 13.7 | 71 |
| 64 | Actin Binding to the Central Domain of WASP/Scar Proteins Plays a Critical Role in the Activation of the Arp2/3 Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 10589-10597. | 3.4 | 71 |
| 65 | The role of protein-solvent interactions in protein unfolding. <i>Current Opinion in Biotechnology</i> , 1996, 7, 428-432. | 6.6 | 69 |
| 66 | Cell Free Expression and Functional Reconstitution of Eukaryotic Drug Transporters. <i>Biochemistry</i> , 2008, 47, 4552-4564. | 2.5 | 68 |
| 67 | Disease-linked TDP43 hyperphosphorylation suppresses TDP43 condensation and aggregation. <i>EMBO Journal</i> , 2022, 41, e108443. | 7.8 | 68 |
| 68 | Characterization of co-translationally formed nanodisc complexes with small multidrug transporters, proteorhodopsin and with the <i>E. coli</i> MraY translocase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 3098-3106. | 2.6 | 67 |
| 69 | Modified lipid and protein dynamics in nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1222-1229. | 2.6 | 67 |
| 70 | The Large Extracellular Loop of Organic Cation Transporter 1 Influences Substrate Affinity and Is Pivotal for Oligomerization. <i>Journal of Biological Chemistry</i> , 2011, 286, 37874-37886. | 3.4 | 64 |
| 71 | Endoplasmic Reticulum Targeting and Insertion of Tail-Anchored Membrane Proteins by the GET Pathway. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a013334-a013334. | 5.5 | 64 |
| 72 | Segmental Isotopic Labeling of a Central Domain in a Multidomain Protein by Protein Trans-splicing Using Only One Robust DnaE Intein. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6128-6131. | 13.8 | 63 |

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|----|---|------|-----------|
| 73 | Non-oncogenic roles of TAp73: from multiciliogenesis to metabolism. <i>Cell Death and Differentiation</i> , 2018, 25, 144-153. | 11.2 | 63 |
| 74 | A systematic approach to increase the efficiency of membrane protein production in cell-free expression systems. <i>Protein Expression and Purification</i> , 2012, 82, 308-316. | 1.3 | 62 |
| 75 | Quantitative Identification of the Protonation State of Histidines in Vitro and in Vivo. <i>Biochemistry</i> , 2003, 42, 9227-9234. | 2.5 | 61 |
| 76 | Preparative scale cell-free expression systems: New tools for the large scale preparation of integral membrane proteins for functional and structural studies. <i>Methods</i> , 2007, 41, 355-369. | 3.8 | 61 |
| 77 | Selective autophagy maintains centrosome integrity and accurate mitosis by turnover of centriolar satellites. <i>Nature Communications</i> , 2019, 10, 4176. | 12.8 | 61 |
| 78 | Elimination of ^{13}C Splitting in Protein NMR Spectra by Deconvolution with Maximum Entropy Reconstruction. <i>Journal of the American Chemical Society</i> , 2003, 125, 2382-2383. | 13.7 | 60 |
| 79 | Functional properties of cell-free expressed human endothelin A and endothelin B receptors in artificial membrane environments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2182-2192. | 2.6 | 58 |
| 80 | Lipid Requirements for the Enzymatic Activity of MraY Translocases and in Vitro Reconstitution of the Lipid II Synthesis Pathway. <i>Journal of Biological Chemistry</i> , 2016, 291, 2535-2546. | 3.4 | 57 |
| 81 | Carbon-Detected NMR Experiments To Investigate Structure and Dynamics of Biological Macromolecules. <i>ChemBioChem</i> , 2001, 2, 247-251. | 2.6 | 56 |
| 82 | Differential altered stability and transcriptional activity of ^{15}N p63 mutants in distinct ectodermal dysplasias. <i>Journal of Cell Science</i> , 2011, 124, 2200-2207. | 2.0 | 56 |
| 83 | Preparative Scale Cell-free Production and Quality Optimization of MraY Homologues in Different Expression Modes. <i>Journal of Biological Chemistry</i> , 2011, 286, 38844-38853. | 3.4 | 54 |
| 84 | Co-translational association of cell-free expressed membrane proteins with supplied lipid bilayers. <i>Molecular Membrane Biology</i> , 2013, 30, 75-89. | 2.0 | 54 |
| 85 | The E. coli S30 lysate proteome: A prototype for cell-free protein production. <i>New Biotechnology</i> , 2018, 40, 245-260. | 4.4 | 54 |
| 86 | In Cell Solid State NMR as a Tool to Study Proteins in Large Complexes. <i>ChemBioChem</i> , 2012, 13, 534-537. | 2.6 | 53 |
| 87 | Co-translational formation and pharmacological characterization of beta1-adrenergic receptor/nanodisc complexes with different lipid environments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1306-1316. | 2.6 | 53 |
| 88 | Quality control in oocytes by p63 is based on a spring-loaded activation mechanism on the molecular and cellular level. <i>ELife</i> , 2016, 5, . | 6.0 | 52 |
| 89 | The Molecular Pharmacology and In Vivo Activity of 2-(4-Chloro-6-(2,3-dimethylphenylamino)pyrimidin-2-ylthio)octanoic acid (YS121), a Dual Inhibitor of Microsomal Prostaglandin E_2 Synthase-1 and 5-Lipoxygenase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 840-848. | 2.5 | 49 |
| 90 | Fluorescence-based ATC_8 sensors monitor localization and function of LC_3 / GABARAP proteins. <i>EMBO Journal</i> , 2017, 36, 549-564. | 7.8 | 49 |

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| 91 | In-Cell NMR Spectroscopy. <i>ChemBioChem</i> , 2005, 6, 1601-1606. | 2.6 | 48 |
| 92 | Single-Molecule Force Spectroscopy from Nanodiscs: An Assay to Quantify Folding, Stability, and Interactions of Native Membrane Proteins. <i>ACS Nano</i> , 2012, 6, 961-971. | 14.6 | 47 |
| 93 | Modulation of G-protein coupled receptor sample quality by modified cell-free expression protocols: A case study of the human endothelin A receptor. <i>Journal of Structural Biology</i> , 2010, 172, 94-106. | 2.8 | 46 |
| 94 | The guanylate kinase domain of the MAGUK PSD-95 binds dynamically to a conserved motif in MAP1a. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 155-163. | 8.2 | 43 |
| 95 | Intrinsic aggregation propensity of the p63 and p73 T1 domains correlates with p53R175H interaction and suggests further significance of aggregation events in the p53 family. <i>Cell Death and Differentiation</i> , 2016, 23, 1952-1960. | 11.2 | 43 |
| 96 | Strategies for the Cell-Free Expression of Membrane Proteins. <i>Methods in Molecular Biology</i> , 2010, 607, 187-212. | 0.9 | 42 |
| 97 | In-cell NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2007, 51, 91-101. | 7.5 | 41 |
| 98 | Preparative Scale Production of Functional Mouse Aquaporin 4 Using Different Cell-Free Expression Modes. <i>PLoS ONE</i> , 2010, 5, e12972. | 2.5 | 41 |
| 99 | Optimization of amino acid type-specific ¹³ C and ¹⁵ N labeling for the backbone assignment of membrane proteins by solution- and solid-state NMR with the UPLABEL algorithm. <i>Journal of Biomolecular NMR</i> , 2011, 49, 75-84. | 2.8 | 41 |
| 100 | Structural Evolution and Dynamics of the p53 Proteins. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a028308. | 6.2 | 41 |
| 101 | An atypical LIR motif within UBA5 (ubiquitin like modifier activating enzyme 5) interacts with GABARAP proteins and mediates membrane localization of UBA5. <i>Autophagy</i> , 2020, 16, 256-270. | 9.1 | 41 |
| 102 | Amino-Acid-Type-Selective Triple-Resonance Experiments. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 107-111. | 1.6 | 39 |
| 103 | Transmembrane segment enhanced labeling as a tool for the backbone assignment of α -helical membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8262-8267. | 7.1 | 38 |
| 104 | A Universal Expression Tag for Structural and Functional Studies of Proteins. <i>ChemBioChem</i> , 2012, 13, 959-963. | 2.6 | 38 |
| 105 | Design, Synthesis, and Evaluation of WD-Repeat-Containing Protein 5 (WDR5) Degradable. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 10682-10710. | 6.4 | 38 |
| 106 | Systems for the Cell-Free Synthesis of Proteins. <i>Methods in Molecular Biology</i> , 2012, 800, 201-225. | 0.9 | 37 |
| 107 | Crystal Structure of a PCP/Sfp Complex Reveals the Structural Basis for Carrier Protein Posttranslational Modification. <i>Chemistry and Biology</i> , 2014, 21, 552-562. | 6.0 | 37 |
| 108 | Combination of cell-free expression and NMR spectroscopy as a new approach for structural investigation of membrane proteins. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, S17-S23. | 1.9 | 36 |

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|-----|---|------|-----------|
| 109 | A Disulfide Bridge Network within the Soluble Periplasmic Domain Determines Structure and Function of the Outer Membrane Protein RCSF. <i>Journal of Biological Chemistry</i> , 2011, 286, 18775-18783. | 3.4 | 36 |
| 110 | Combining <i>in Vitro</i> Folding with Cell Free Protein Synthesis for Membrane Protein Expression. <i>Biochemistry</i> , 2016, 55, 4212-4219. | 2.5 | 36 |
| 111 | Cell cycle arrest in mitosis promotes interferon-induced necroptosis. <i>Cell Death and Differentiation</i> , 2019, 26, 2046-2060. | 11.2 | 36 |
| 112 | Ubiquitination in the ERAD Process. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5369. | 4.1 | 36 |
| 113 | New approaches to structure determination by NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 1998, 8, 619-623. | 5.7 | 35 |
| 114 | Optimization of ¹³ C direct detection NMR methods. <i>Journal of Biomolecular NMR</i> , 2004, 30, 175-179. | 2.8 | 35 |
| 115 | Characterization of Molecular Interactions between ACP and Halogenase Domains in the Curacin A Polyketide Synthase. <i>ACS Chemical Biology</i> , 2012, 7, 378-386. | 3.4 | 35 |
| 116 | Requirements on Paramagnetic Relaxation Enhancement Data for Membrane Protein Structure Determination by NMR. <i>Structure</i> , 2012, 20, 1019-1027. | 3.3 | 35 |
| 117 | Hydrophobic supplements in cell-free systems: Designing artificial environments for membrane proteins. <i>Engineering in Life Sciences</i> , 2014, 14, 365-379. | 3.6 | 35 |
| 118 | The CUE Domain of Cue1 Aligns Growing Ubiquitin Chains with Ubc7 for Rapid Elongation. <i>Molecular Cell</i> , 2016, 62, 918-928. | 9.7 | 34 |
| 119 | Apoptosis inhibitor 5 is an endogenous inhibitor of caspase-2. <i>EMBO Reports</i> , 2017, 18, 733-744. | 4.5 | 34 |
| 120 | Structural and functional dissection of the DH and PH domains of oncogenic Bcr-Abl tyrosine kinase. <i>Nature Communications</i> , 2017, 8, 2101. | 12.8 | 33 |
| 121 | LILBID and nESI: Different Native Mass Spectrometry Techniques as Tools in Structural Biology. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 181-191. | 2.8 | 33 |
| 122 | Cell-free expression profiling of <i>E. coli</i> inner membrane proteins. <i>Proteomics</i> , 2010, 10, 1762-1779. | 2.2 | 32 |
| 123 | Cell-free expression and in meso crystallisation of an integral membrane kinase for structure determination. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 4895-4910. | 5.4 | 32 |
| 124 | A New Structural Domain in the Escherichia coli RcsC Hybrid Sensor Kinase Connects Histidine Kinase and Phosphoreceiver Domains. <i>Journal of Molecular Biology</i> , 2006, 364, 68-79. | 4.2 | 30 |
| 125 | Screening for Lipid Requirements of Membrane Proteins by Combining Cell-Free Expression with Nanodiscs. <i>Methods in Enzymology</i> , 2015, 556, 351-369. | 1.0 | 30 |
| 126 | DNA Damaged Induced Cell Death in Oocytes. <i>Molecules</i> , 2020, 25, 5714. | 3.8 | 30 |

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|-----|--|------|-----------|
| 127 | Improved pulse sequences for sequence specific assignment of aromatic proton resonances in proteins. <i>Journal of Biomolecular NMR</i> , 2007, 37, 205-224. | 2.8 | 29 |
| 128 | Mechanism of TAp73 inhibition by $^{129}\text{Np63}$ and structural basis of p63/p73 hetero-tetramerization. <i>Cell Death and Differentiation</i> , 2016, 23, 1930-1940. | 11.2 | 29 |
| 129 | From Nanodiscs to Isotropic Bicelles: A Procedure for Solution Nuclear Magnetic Resonance Studies of Detergent-Sensitive Integral Membrane Proteins. <i>Structure</i> , 2016, 24, 1830-1841. | 3.3 | 29 |
| 130 | Artificial Environments for the Co-Translational Stabilization of Cell-Free Expressed Proteins. <i>PLoS ONE</i> , 2013, 8, e56637. | 2.5 | 29 |
| 131 | Structural Basis for the Functional Switch of the <i>E. coli</i> Ada Protein. <i>Biochemistry</i> , 2001, 40, 4261-4271. | 2.5 | 28 |
| 132 | Site-specific inhibition of the small ubiquitin-like modifier (SUMO)-conjugating enzyme Ubc9 selectively impairs SUMO chain formation. <i>Journal of Biological Chemistry</i> , 2017, 292, 15340-15351. | 3.4 | 28 |
| 133 | Rat Organic Cation Transporter 1 Contains Three Binding Sites for Substrate 1-Methyl-4-phenylpyridinium per Monomer. <i>Molecular Pharmacology</i> , 2019, 95, 169-182. | 2.3 | 28 |
| 134 | p63 uses a switch-like mechanism to set the threshold for induction of apoptosis. <i>Nature Chemical Biology</i> , 2020, 16, 1078-1086. | 8.0 | 28 |
| 135 | Editing for Amino-Acid Type in CBCACONH Experiments Based on the $^{13}\text{C}^{\alpha}-^{13}\text{C}^{\beta}$ Coupling. <i>Journal of Magnetic Resonance Series B</i> , 1996, 111, 310-313. | 1.6 | 27 |
| 136 | Cell-Free Production of Integral Membrane Proteins on a Preparative Scale. , 2007, 375, 57-78. | | 27 |
| 137 | Functional Expression of the PorAH Channel from <i>Corynebacterium glutamicum</i> in Cell-free Expression Systems. <i>Journal of Biological Chemistry</i> , 2011, 286, 32525-32532. | 3.4 | 27 |
| 138 | Combinatorial triple-selective labeling as a tool to assist membrane protein backbone resonance assignment. <i>Journal of Biomolecular NMR</i> , 2012, 52, 197-210. | 2.8 | 27 |
| 139 | Fast Mapping of Protein-Protein Interfaces by NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 14250-14251. | 13.7 | 26 |
| 140 | Solution Structure of the <i>Escherichia coli</i> YojN Histidine-phosphotransferase Domain and its Interaction with Cognate Phosphoryl Receiver Domains. <i>Journal of Molecular Biology</i> , 2004, 343, 1035-1048. | 4.2 | 26 |
| 141 | Control mechanisms in germ cells mediated by p53 family proteins. <i>Journal of Cell Science</i> , 2017, , . | 2.0 | 26 |
| 142 | Protein aggregation of the p63 transcription factor underlies severe skin fragility in AEC syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E906-E915. | 7.1 | 26 |
| 143 | Protein labeling strategies for liquid-state NMR spectroscopy using cell-free synthesis. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018, 105, 1-22. | 7.5 | 26 |
| 144 | Efficient identification of amino acid types for fast protein backbone assignments. <i>Journal of Biomolecular NMR</i> , 2001, 21, 269-273. | 2.8 | 25 |

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|-----|---|------|-----------|
| 145 | Ubiquitin linkages make a difference. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1209-1210. | 8.2 | 25 |
| 146 | FAM96A is a novel pro-apoptotic tumor suppressor in gastrointestinal stromal tumors. <i>International Journal of Cancer</i> , 2015, 137, 1318-1329. | 5.1 | 25 |
| 147 | Systematic optimization of cell-free synthesized human endothelin B receptor folding. <i>Methods</i> , 2018, 147, 73-83. | 3.8 | 25 |
| 148 | The UBA domain of conjugating enzyme Ubc1/Ube2K facilitates assembly of K48/K63 branched ubiquitin chains. <i>EMBO Journal</i> , 2021, 40, e106094. | 7.8 | 25 |
| 149 | Induced structure of a helical switch as a mechanism to regulate enzymatic activity. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 1019-1020. | 8.2 | 24 |
| 150 | A General Model for Preferential Hetero-oligomerization of LIN-2/7 Domains. <i>Journal of Biological Chemistry</i> , 2005, 280, 38528-38536. | 3.4 | 24 |
| 151 | NmerA of Tn501 Mercuric Ion Reductase: Structural Modulation of the pKa Values of the Metal Binding Cysteine Thiols. <i>Biochemistry</i> , 2010, 49, 8988-8998. | 2.5 | 24 |
| 152 | Investigation of Quadruplex Structure Under Physiological Conditions Using In-Cell NMR. <i>Topics in Current Chemistry</i> , 2012, 330, 47-65. | 4.0 | 24 |
| 153 | From Gene to Function: Cell-Free Electrophysiological and Optical Analysis of Ion Pumps in Nanodiscs. <i>Biophysical Journal</i> , 2017, 113, 1331-1341. | 0.5 | 24 |
| 154 | Biosynthesis of membrane dependent proteins in insect cell lysates: identification of limiting parameters for folding and processing. <i>Biological Chemistry</i> , 2015, 396, 1097-1107. | 2.5 | 23 |
| 155 | The p63 C-terminus is essential for murine oocyte integrity. <i>Nature Communications</i> , 2021, 12, 383. | 12.8 | 23 |
| 156 | Selective Identification of Threonine, Valine, and Isoleucine Sequential Connectivities with a TVI-CBCACONH Experiment. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 304-308. | 1.6 | 22 |
| 157 | Demonstrating Ligandability of the LC3A and LC3B Adapter Interface. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3720-3746. | 6.4 | 22 |
| 158 | Structural diversity of p63 and p73 isoforms. <i>Cell Death and Differentiation</i> , 2022, 29, 921-937. | 11.2 | 22 |
| 159 | NMR Studies Reveal the Role of Biomembranes in Modulating Ligand Binding and Release by Intracellular Bile Acid Binding Proteins. <i>Journal of Molecular Biology</i> , 2009, 394, 852-863. | 4.2 | 21 |
| 160 | Structure and Biophysical Characterization of the S-Adenosylmethionine-dependent O-Methyltransferase PaMTH1, a Putative Enzyme Accumulating during Senescence of <i>Podospira anserina</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 16415-16430. | 3.4 | 20 |
| 161 | Insights into Cotranslational Membrane Protein Insertion by Combined LILBID-Mass Spectrometry and NMR Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 12314-12318. | 6.5 | 20 |
| 162 | The synaptic vesicle protein SV31 assembles into a dimer and transports Zn ²⁺ . <i>Journal of Neurochemistry</i> , 2017, 140, 280-293. | 3.9 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Inâ€Cell NMR Spectroscopy of Functional Riboswitch Aptamers in Eukaryotic Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 865-872. | 13.8 | 19 |
| 164 | Probing metallo-Î²-lactamases with molecular fragments identified by consensus docking. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5243-5246. | 2.2 | 18 |
| 165 | Regulation of the Activity in the p53 Family Depends on the Organization of the Transactivation Domain. <i>Structure</i> , 2018, 26, 1091-1100.e4. | 3.3 | 18 |
| 166 | Peak picking NMR spectral data using non-negative matrix factorization. <i>BMC Bioinformatics</i> , 2014, 15, 46. | 2.6 | 17 |
| 167 | High-Level Cell-Free Production of Membrane Proteins with Nanodiscs. <i>Methods in Molecular Biology</i> , 2014, 1118, 109-130. | 0.9 | 16 |
| 168 | Chain Assembly and Disassembly Processes Differently Affect the Conformational Space of Ubiquitin Chains. <i>Structure</i> , 2018, 26, 249-258.e4. | 3.3 | 16 |
| 169 | Deletions and loss-of-function variants in TP63 associated with orofacial clefting. <i>European Journal of Human Genetics</i> , 2019, 27, 1101-1112. | 2.8 | 16 |
| 170 | Cell-Free Expression of G-Protein-Coupled Receptors. <i>Methods in Molecular Biology</i> , 2015, 1261, 171-195. | 0.9 | 16 |
| 171 | Quality control in oocytes: Domain-domain interactions regulate the activity of p63. <i>Cell Cycle</i> , 2011, 10, 1884-1885. | 2.6 | 15 |
| 172 | An extended combinatorial ¹⁵ N, ¹³ C±, and ¹³ C ^{prime} labeling approach to protein backbone resonance assignment. <i>Journal of Biomolecular NMR</i> , 2015, 62, 263-279. | 2.8 | 15 |
| 173 | Isoform-Specific Roles of Mutant p63 in Human Diseases. <i>Cancers</i> , 2021, 13, 536. | 3.7 | 15 |
| 174 | One Functional Switch Mediates Reversible and Irreversible Inactivation of a Herpesvirus Protease. <i>Biochemistry</i> , 2006, 45, 3572-3579. | 2.5 | 14 |
| 175 | Structural Insights into Rcs Phosphotransfer: The Newly Identified RcsD-ABL Domain Enhances Interaction with the Response Regulator RcsB. <i>Structure</i> , 2011, 19, 577-587. | 3.3 | 14 |
| 176 | Phenotypic analysis of Arg227 mutations of <i>TP63</i> with emphasis on dental phenotype and micturition difficulties in EEC syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2011, 155, 228-232. | 1.2 | 14 |
| 177 | Time-shared experiments for efficient assignment of triple-selectively labeled proteins. <i>Journal of Magnetic Resonance</i> , 2014, 248, 81-95. | 2.1 | 13 |
| 178 | Labeling of Membrane Proteins by Cell-Free Expression. <i>Methods in Enzymology</i> , 2015, 565, 367-388. | 1.0 | 13 |
| 179 | Discovery of Protein-Protein Interaction Inhibitors by Integrating Protein Engineering and Chemical Screening Platforms. <i>Cell Chemical Biology</i> , 2020, 27, 1441-1451.e7. | 5.2 | 13 |
| 180 | Oxygen-dependent asparagine hydroxylation of the ubiquitin-associated (UBA) domain in Cezanne regulates ubiquitin binding. <i>Journal of Biological Chemistry</i> , 2020, 295, 2160-2174. | 3.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Characterization of a natural variant of human NDP52 and its functional consequences on mitophagy. <i>Cell Death and Differentiation</i> , 2021, 28, 2499-2516. | 11.2 | 12 |
| 182 | Co-translational Stabilization of Insoluble Proteins in Cell-Free Expression Systems. <i>Methods in Molecular Biology</i> , 2015, 1258, 125-143. | 0.9 | 12 |
| 183 | Kinase domain autophosphorylation rewires the activity and substrate specificity of CK1 enzymes. <i>Molecular Cell</i> , 2022, 82, 2006-2020.e8. | 9.7 | 12 |
| 184 | Triple-Resonance Methods for Complete Resonance Assignment of Aromatic Protons and Directly Bound Heteronuclei in Histidine and Tryptophan Residues. <i>Journal of Biomolecular NMR</i> , 2005, 32, 309-328. | 2.8 | 11 |
| 185 | Reprint of "Cell-free production of G protein-coupled receptors for functional and structural studies" [J. Struct. Biol. 158 (2007) 482-493]. <i>Journal of Structural Biology</i> , 2007, 159, 194-205. | 2.8 | 11 |
| 186 | The Better Tag Remains Unseen. <i>Journal of the American Chemical Society</i> , 2008, 130, 14932-14933. | 13.7 | 11 |
| 187 | Tracing the protector's path from the germ line to the genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15318-15325. | 7.1 | 11 |
| 188 | Mutation in SAM domain of TP63 is associated with nonsyndromic cleft lip and palate and cleft palate. <i>American Journal of Medical Genetics, Part A</i> , 2011, 155, 1432-1436. | 1.2 | 11 |
| 189 | Cell-free expression of G-protein coupled receptors: new pipelines for challenging targets. <i>Biological Chemistry</i> , 2014, 395, 1425-1434. | 2.5 | 11 |
| 190 | Stabilisation and characterisation of the isolated regulatory domain of human 5-lipoxygenase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1538-1547. | 2.4 | 11 |
| 191 | Precursor-Based Selective Methyl Labeling of Cell-Free Synthesized Proteins. <i>ACS Chemical Biology</i> , 2018, 13, 2170-2178. | 3.4 | 11 |
| 192 | Characterization of the ground state dynamics of proteorhodopsin by NMR and optical spectroscopies. <i>Journal of Biomolecular NMR</i> , 2012, 54, 401-413. | 2.8 | 10 |
| 193 | TA [*] p63 and GTAp63 achieve tighter transcriptional regulation in quality control by converting an inhibitory element into an additional transactivation domain. <i>Cell Death and Disease</i> , 2019, 10, 686. | 6.3 | 10 |
| 194 | A dimerization-dependent mechanism regulates enzymatic activation and nuclear entry of PLK1. <i>Oncogene</i> , 2022, 41, 372-386. | 5.9 | 10 |
| 195 | Assembling a Correctly Folded and Functional Heptahelical Membrane Protein by Protein Trans-splicing. <i>Journal of Biological Chemistry</i> , 2015, 290, 27712-27722. | 3.4 | 9 |
| 196 | Acceleration of protein backbone NMR assignment by combinatorial labeling: application to a small molecule binding study. <i>Biopolymers</i> , 2017, 107, e23013. | 2.4 | 9 |
| 197 | Lipid Conversion by Cell-Free Synthesized Phospholipid Methyltransferase Opi3 in Defined Nanodisc Membranes Supports an <i>in Trans</i> Mechanism. <i>Biochemistry</i> , 2018, 57, 5780-5784. | 2.5 | 9 |
| 198 | SPLICEFINDER " A Fast and Easy Screening Method for Active Protein Trans-Splicing Positions. <i>PLoS ONE</i> , 2013, 8, e72925. | 2.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Investigation of Proteins in Living Bacteria with In-Cell NMR Experiments. Topics in Current Chemistry, 2008, 273, 203-214. | 4.0 | 7 |
| 200 | Structural and functional insights into the interaction and targeting hub TMD0 of the polypeptide transporter TAPL. Scientific Reports, 2018, 8, 15662. | 3.3 | 7 |
| 201 | Towards complete polypeptide backbone NH assignment via combinatorial labeling. Journal of Magnetic Resonance, 2019, 302, 50-63. | 2.1 | 7 |
| 202 | A Concerted Action of UBA5 C-Terminal Unstructured Regions Is Important for Transfer of Activated UFM1 to UFC1. International Journal of Molecular Sciences, 2021, 22, 7390. | 4.1 | 7 |
| 203 | Biochemical Characterization of Cell-free Synthesized Human β 21 Adrenergic Receptor Cotranslationally Inserted into Nanodiscs. Journal of Molecular Biology, 2022, 434, 167687. | 4.2 | 7 |
| 204 | Improved accuracy in measuring one-bond and two-bond $^{15}\text{N},^{13}\text{C}$ coupling constants in proteins by double-inphase/antiphase (DIPAP) spectroscopy. Journal of Biomolecular NMR, 2011, 50, 167-190. | 2.8 | 6 |
| 205 | Cell-free expression of human glucosamine 6-phosphate N-acetyltransferase (HsGNA1) for inhibitor screening. Protein Expression and Purification, 2012, 86, 120-126. | 1.3 | 6 |
| 206 | Conformational stabilization of the membrane embedded targeting domain of the lysosomal peptide transporter TAPL for solution NMR. Journal of Biomolecular NMR, 2013, 57, 141-154. | 2.8 | 6 |
| 207 | Structural investigations of the p53/p73 homologs from the tunicate species <i>Ciona intestinalis</i> reveal the sequence requirements for the formation of a tetramerization domain. Protein Science, 2016, 25, 410-422. | 7.6 | 6 |
| 208 | Molecular Determinants for Ligand Selectivity of the Cell-Free Synthesized Human Endothelin B Receptor. Journal of Molecular Biology, 2018, 430, 5105-5119. | 4.2 | 6 |
| 209 | Membrane insertion mechanism and molecular assembly of the bacteriophage lysis toxin λ X174. FEBS Journal, 2021, 288, 3300-3316. | 4.7 | 6 |
| 210 | In-Cell NMR Spectroscopy of Functional Riboswitch Aptamers in Eukaryotic Cells. Angewandte Chemie, 2021, 133, 878-885. | 2.0 | 6 |
| 211 | A Cost-effective Amino-acid-type Selective Isotope Labeling of Proteins Expressed in <i>Leishmania tarentolae</i> . Journal of Biomolecular Structure and Dynamics, 2009, 26, 755-761. | 3.5 | 5 |
| 212 | Structural investigation of glycan recognition by the ERAD quality control lectin Yos9. Journal of Biomolecular NMR, 2018, 72, 1-10. | 2.8 | 5 |
| 213 | Enhanced pro-apoptosis gene signature following the activation of TAp63 in oocytes upon β irradiation. Cell Death and Disease, 2022, 13, 204. | 6.3 | 5 |
| 214 | Characterization of protein-solvent interactions with NMR-spectroscopy: The role of urea in the unfolding of proteins. Pharmaceutica Acta Helvetiae, 1996, 71, 87-96. | 1.2 | 4 |
| 215 | Rapid identification of protein-protein interfaces for the construction of a complex model based on multiple unassigned signals by using time-sharing NMR measurements. Journal of Structural Biology, 2011, 174, 434-442. | 2.8 | 4 |
| 216 | Synthetic Biology-Based Solution NMR Studies on Membrane Proteins in Lipid Environments. Methods in Enzymology, 2019, 614, 143-185. | 1.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | Mechanisms of quality control differ in male and female germ cells. <i>Cell Death and Differentiation</i> , 2021, 28, 2300-2302. | 11.2 | 4 |
| 218 | Membrane Protein Quality Control in Cell-Free Expression Systems: Tools, Strategies and Case Studies. , 2014, , 45-70. | | 4 |
| 219 | Proteinâ€“DNA Interactions. <i>Methods in Enzymology</i> , 2001, 339, 343-357. | 1.0 | 3 |
| 220 | Modulation of the Rcs-mediated signal transfer by conformational flexibility. <i>Biochemical Society Transactions</i> , 2008, 36, 1427-1432. | 3.4 | 3 |
| 221 | How to Create a Specific Recognition for an Unspecific Interaction. <i>Structure</i> , 2011, 19, 601-602. | 3.3 | 3 |
| 222 | How to switch a master switch. <i>ELife</i> , 2013, 2, e01159. | 6.0 | 3 |
| 223 | Designed Ankyrin Repeat Proteins as a tool box for analyzing p63. <i>Cell Death and Differentiation</i> , 2022, 29, 2445-2458. | 11.2 | 3 |
| 224 | Letter to the Editor: Assignment of ¹ H, ¹³ C and ¹⁵ N resonances of the Escherichia coli YojN Histidine-Phosphotransferase (HPT) domain. <i>Journal of Biomolecular NMR</i> , 2004, 30, 103-104. | 2.8 | 2 |
| 225 | Cell-Free Expression of Integral Membrane Proteins for Structural Studies. , 0, , 141-164. | | 2 |
| 226 | Letter to the Editor. <i>Journal of Biomolecular NMR</i> , 2007, 38, 165-165. | 2.8 | 2 |
| 227 | Fast Automated NMR Spectroscopy of Shortâ€“Lived Biological Samples. <i>ChemBioChem</i> , 2012, 13, 964-967. | 2.6 | 2 |
| 228 | CHK2 sets the stage for CK1 in oocyte quality control. <i>Cell Death and Differentiation</i> , 2018, 25, 1007-1009. | 11.2 | 2 |
| 229 | A TP63 Mutation Causes Prominent Alopecia with Mild Ectodermal Dysplasia. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1103-1106.e4. | 0.7 | 2 |
| 230 | Screening Methods for Cell-Free Synthesized GPCR/Nanoparticle Samples. <i>Methods in Molecular Biology</i> , 2021, 2268, 97-117. | 0.9 | 2 |
| 231 | Applications of Cell-Free Synthesized Membrane Protein Precipitates. <i>Methods in Molecular Biology</i> , 2022, 2406, 245-266. | 0.9 | 1 |
| 232 | Kinase Domain Autophosphorylation Rewires the Activity and Substrate Specificity of CK1 Enzymes. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 1 |
| 233 | NMR Assignment of the L27 Heterodimer from LIN-2 and LIN-7 Scaffold Proteins. <i>Journal of Biomolecular NMR</i> , 2006, 36, 15-15. | 2.8 | 0 |
| 234 | On track to tenureâ€“track. <i>EMBO Reports</i> , 2009, 10, 936-937. | 4.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Co-translational Insertion of Membrane Proteins into Preformed Nanodiscs. Journal of Visualized Experiments, 2020, , . | 0.3 | 0 |