# Stefan G D RÃ¼diger

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 62 papers | 6,997 citations | 66343 42 h-index | 123424 61 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 7064 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Substrate specificity of the DnaK chaperone determined by screening cellulose-bound peptide libraries. EMBO Journal, 1997, 16, 1501-1507. | 7.8 | 715 |
| 2 | Identification of thermolabile Escherichia coli proteins: prevention and reversion of aggregation by DnaK and ClpB. EMBO Journal, 1999, 18, 6934-6949. | 7.8 | 552 |
| 3 | Multistep mechanism of substrate binding determines chaperone activity of Hsp70. Nature Structural Biology, 2000, 7, 586-593. | 9.7 | 335 |
| 4 | Interaction of Hsp70 chaperones with substrates. Nature Structural and Molecular Biology, 1997, 4, 342-349. | 8.2 | 334 |
| 5 | Hsp90-Tau Complex Reveals Molecular Basis for Specificity in Chaperone Action. Cell, 2014, 156, 963-974. | 28.9 | 269 |
| 6 | Its substrate specificity characterizes the DnaJ co-chaperone as a scanning factor for the DnaK chaperone. EMBO Journal, 2001, 20, 1042-1050. | 7.8 | 258 |
| 7 | A peptide that binds and stabilizes p53 core domain: Chaperone strategy for rescue of oncogenic mutants. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 937-942. | 7.1 | 252 |
| 8 | Distribution of Binding Sequences for the Mitochondrial Import Receptors Tom20, Tom22, and Tom70 in a Presequence-carrying Preprotein and a Non-cleavable Preprotein. Journal of Biological Chemistry, 1999, 274, 16522-16530. | 3.4 | 208 |
| 9 | Tuning of chaperone activity of Hsp70 proteins by modulation of nucleotide exchange. Nature Structural Biology, 2001, 8, 427-432. | 9.7 | 205 |
| 10 | Regulation of Î±-synuclein by chaperones in mammalian cells. Nature, 2020, 577, 127-132. | 27.8 | 184 |
| 11 | Studying proteinâ€"protein interactions using peptide arrays. Chemical Society Reviews, 2011, 40, 2131. | 38.1 | 173 |
| 12 | Wnt/Î²-catenin signaling requires interaction of the Dishevelled DEP domain and C terminus with a discontinuous motif in Frizzled. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E812-20. | 7.1 | 172 |
| 13 | The Hsp70â€"Hsp90 Chaperone Cascade in Protein Folding. Trends in Cell Biology, 2019, 29, 164-177. | 7.9 | 170 |
| 14 | Hsp90 interaction with clients. Trends in Biochemical Sciences, 2015, 40, 117-125. | 7.5 | 168 |
| 15 | Binding specificity of <i>Escherichia coli</i> trigger factor. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14244-14249. | 7.1 | 164 |
| 16 | Molecular Basis for Regulation of the Heat Shock Transcription Factor Ïƒ32 by the DnaK and DnaJ Chaperones. Molecular Cell, 2008, 32, 347-358. | 9.7 | 151 |
| 17 | Messing up disorder: how do missense mutations in the tumor suppressor protein APC lead to cancer?. Molecular Cancer, 2011, 10, 101. | 19.2 | 140 |
| 18 | Substrate Specificity of the SecB Chaperone. Journal of Biological Chemistry, 1999, 274, 34219-34225. | 3.4 | 137 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The central region of HDM2 provides a second binding site for p53. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1227-1232. | 7.1 | 130 |
| 20 | Hsp90 Breaks the Deadlock of the Hsp70 Chaperone System. Molecular Cell, 2018, 70, 545-552.e9. | 9.7 | 124 |
| 21 | Two sequence motifs from HIF-1Â bind to the DNA-binding site of p53. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10305-10309. | 7.1 | 122 |
| 22 | Regulatory Region C of theE. coliHeat Shock Transcription Factor, Ïƒ32, Constitutes a DnaK Binding Site and is Conserved Among Eubacteria. Journal of Molecular Biology, 1996, 256, 829-837. | 4.2 | 118 |
| 23 | The Vertebrate Mitotic Checkpoint Protein BUBR1 Is an Unusual Pseudokinase. Developmental Cell, 2012, 22, 1321-1329. | 7.0 | 116 |
| 24 | MAP7 family proteins regulate kinesin-1 recruitment and activation. Journal of Cell Biology, 2019, 218, 1298-1318. | 5.2 | 114 |
| 25 | Expression of nitric oxide synthase and colocalisation with Jun, Fos and Krox transcription factors in spinal cord neurons following noxious stimulation of the rat hindpaw. Molecular Brain Research, 1994, 22, 245-258. | 2.3 | 113 |
| 26 | Molecular Basis for Interactions of the DnaK Chaperone with Substrates. Biological Chemistry, 2000, 381, 877-85. | 2.5 | 111 |
| 27 | N-terminal domain of human Hsp90 triggers binding to the cochaperone p23. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 580-585. | 7.1 | 109 |
| 28 | CRINEPT-TROSY NMR reveals p53 core domain bound in an unfolded form to the chaperone Hsp90. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11085-11090. | 7.1 | 99 |
| 29 | A script to highlight hydrophobicity and charge on protein surfaces. Frontiers in Molecular Biosciences, 2015, 2, 56. | 3.5 | 98 |
| 30 | Correlation of Levels of Folded Recombinant p53 in Escherichia coli with Thermodynamic Stability in Vitro. Journal of Molecular Biology, 2007, 372, 268-276. | 4.2 | 86 |
| 31 | Dancing with the Diva: Hsp90â€"Client Interactions. Journal of Molecular Biology, 2018, 430, 3029-3040. | 4.2 | 86 |
| 32 | The Hsp70-Hsp90 co-chaperone Hop/Stip1 shifts the proteostatic balance from folding towards degradation. Nature Communications, 2020, 11, 5975. | 12.8 | 78 |
| 33 | Structural Distortion of p53 by the Mutation R249S and its Rescue by a Designed Peptide: Implications for â€œMutant Conformationâ€. Journal of Molecular Biology, 2004, 336, 187-196. | 4.2 | 75 |
| 34 | Modulation of substrate specificity of the DnaK chaperone by alteration of a hydrophobic arch. Journal of Molecular Biology, 2000, 304, 245-251. | 4.2 | 65 |
| 35 | Hsp90 structure and function studied by NMR spectroscopy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 636-647. | 4.1 | 63 |
| 36 | Critical Scaffolding Regions of the Tumor Suppressor Axin1 Are Natively Unfolded. Journal of Molecular Biology, 2011, 405, 773-786. | 4.2 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The mechanism of Hsp90-induced oligomerizaton of Tau. Science Advances, 2020, 6, eaax6999. | 10.3 | 55 |
| 38 | Functional Dissection of Trigger Factor and DnaK: Interactions with Nascent Polypeptides and Thermally Denatured Proteins. Biological Chemistry, 2001, 382, 1235-43. | 2.5 | 51 |
| 39 | Molecular basis of the interaction between the antiapoptotic Bcl-2 family proteins and the proapoptotic protein ASPP2. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12277-12282. | 7.1 | 49 |
| 40 | Sulforaphane inhibits pancreatic cancer through disrupting Hsp90â€"p50Cdc37 complex and direct interactions with amino acids residues of Hsp90. Journal of Nutritional Biochemistry, 2012, 23, 1617-1626. | 4.2 | 49 |
| 41 | Large Extent of Disorder in Adenomatous Polyposis Coli Offers a Strategy to Guard Wnt Signalling against Point Mutations. PLoS ONE, 2013, 8, e77257. | 2.5 | 46 |
| 42 | Novel Hsp90 partners discovered using complementary proteomic approaches. Cell Stress and Chaperones, 2009, 14, 629-638. | 2.9 | 42 |
| 43 | The Structure and Interactions of the Proline-rich Domain of ASPP2. Journal of Biological Chemistry, 2008, 283, 18990-18999. | 3.4 | 40 |
| 44 | Stochastic machines as a colocalization mechanism for scaffold protein function. FEBS Letters, 2013, 587, 1587-1591. | 2.8 | 40 |
| 45 | Determining Biophysical Protein Stability in Lysates by a Fast Proteolysis Assay, FASTpp. PLoS ONE, 2012, 7, e46147. | 2.5 | 33 |
| 46 | Axin cancer mutants form nanoaggregates to rewire the Wnt signaling network. Nature Structural and Molecular Biology, 2016, 23, 324-332. | 8.2 | 31 |
| 47 | Arginine Ï€-stacking drives binding to fibrils of the Alzheimer protein Tau. Nature Communications, 2020, 11, 571. | 12.8 | 28 |
| 48 | 3D DOSY-TROSY to determine the translational diffusion coefficient of large protein complexes. Protein Engineering, Design and Selection, 2011, 24, 99-103. | 2.1 | 25 |
| 49 | Molecular Strategies to Target Protein Aggregation in Huntingtonâ€™s Disease. Frontiers in Molecular Biosciences, 2021, 8, 769184. | 3.5 | 21 |
| 50 | The Conserved Helix C Region in the Superfamily of Interferon-Î³/Interleukin-10-related Cytokines Corresponds to a High-affinity Binding Site for the HSP70 Chaperone DnaK. Journal of Biological Chemistry, 2002, 277, 25668-25676. | 3.4 | 19 |
| 51 | Alzheimer Cells on Their Way to Derailment Show Selective Changes in Protein Quality Control Network. Frontiers in Molecular Biosciences, 2020, 7, 214. | 3.5 | 19 |
| 52 | How do protein aggregates escape quality control in neurodegeneration?. Trends in Neurosciences, 2022, 45, 257-271. | 8.6 | 17 |
| 53 | Binding Specificity of an Î±-Helical Protein Sequence to a Full-Length Hsp70 Chaperone and Its Minimal Substrate-Binding Domainâ€. Biochemistry, 2006, 45, 13835-13846. | 2.5 | 13 |
| 54 | The Mitochondrial Hsp90 TRAP1 and Alzheimerâ€™s Disease. Frontiers in Molecular Biosciences, 2021, 8, 697913. | 3.5 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Recombinant production and purification of the human protein Tau. Protein Engineering, Design and Selection, 2018, 31, 447-455. | 2.1 | 8 |
| 56 | Behind closed gates â€“ chaperones and charged residues determine protein fate. EMBO Journal, 2020, 39, e104939. | 7.8 | 8 |
| 57 | Extensive Anti-CoA Immunostaining in Alzheimerâ€™s Disease and Covalent Modification of Tau by a Key Cellular Metabolite Coenzyme A. Frontiers in Cellular Neuroscience, 2021, 15, 739425. | 3.7 | 8 |
| 58 | Expressed protein ligation for a large dimeric protein. Protein Engineering, Design and Selection, 2011, 24, 495-501. | 2.1 | 7 |
| 59 | Picky Hsp90â€”Every Game with Another Mate. Molecular Cell, 2017, 67, 899-900. | 9.7 | 5 |
| 60 | Production and purification of human Hsp90Î² in Escherichia coli. PLoS ONE, 2017, 12, e0180047. | 2.5 | 4 |
| 61 | Hsp90 Chaperone in Disease. Heat Shock Proteins, 2019, , 473-491. | 0.2 | 1 |
| 62 | Double J-domain piloting of an Hsp70 substrate. Journal of Biological Chemistry, 2021, 296, 100717. | 3.4 | 0 |