

Lars Plate

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,338
citations

331259

21
h-index

329751

37
g-index

56
all docs

56
docs citations

56
times ranked

3191
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Toward "Omic Scale Metabolite Profiling: A Dual Separation" Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism. <i>Analytical Chemistry</i> , 2013, 85, 6876-6884. | 3.2 | 242 |
| 2 | Arylfluorosulfates Inactivate Intracellular Lipid Binding Protein(s) through Chemoselective SuFEx Reaction with a Binding Site Tyr Residue. <i>Journal of the American Chemical Society</i> , 2016, 138, 7353-7364. | 6.6 | 212 |
| 3 | "Inverse Drug Discovery" Strategy To Identify Proteins That Are Targeted by Latent Electrophiles As Exemplified by Aryl Fluorosulfates. <i>Journal of the American Chemical Society</i> , 2018, 140, 200-210. | 6.6 | 206 |
| 4 | Small molecule proteostasis regulators that reprogram the ER to reduce extracellular protein aggregation. <i>ELife</i> , 2016, 5, . | 2.8 | 185 |
| 5 | Nitric Oxide Modulates Bacterial Biofilm Formation through a Multicomponent Cyclic-di-GMP Signaling Network. <i>Molecular Cell</i> , 2012, 46, 449-460. | 4.5 | 156 |
| 6 | Pharmacologic ATF6 activation confers global protection in widespread disease models by reprogramming cellular proteostasis. <i>Nature Communications</i> , 2019, 10, 187. | 5.8 | 140 |
| 7 | Nitric oxide-sensing H-NOX proteins govern bacterial communal behavior. <i>Trends in Biochemical Sciences</i> , 2013, 38, 566-575. | 3.7 | 96 |
| 8 | Comparative Multiplexed Interactomics of SARS-CoV-2 and Homologous Coronavirus Nonstructural Proteins Identifies Unique and Shared Host-Cell Dependencies. <i>ACS Infectious Diseases</i> , 2020, 6, 3174-3189. | 1.8 | 92 |
| 9 | Pharmacologic IRE1/XBP1s activation confers targeted ER proteostasis reprogramming. <i>Nature Chemical Biology</i> , 2020, 16, 1052-1061. | 3.9 | 90 |
| 10 | Pharmacologic ATF6 activating compounds are metabolically activated to selectively modify endoplasmic reticulum proteins. <i>ELife</i> , 2018, 7, . | 2.8 | 85 |
| 11 | Unfolded protein response activation reduces secretion and extracellular aggregation of amyloidogenic immunoglobulin light chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13046-13051. | 3.3 | 83 |
| 12 | Regulating Secretory Proteostasis through the Unfolded Protein Response: From Function to Therapy. <i>Trends in Cell Biology</i> , 2017, 27, 722-737. | 3.6 | 70 |
| 13 | Regulated in Development and DNA Damage Response 1 Deficiency Impairs Autophagy and Mitochondrial Biogenesis in Articular Cartilage and Increases the Severity of Experimental Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2017, 69, 1418-1428. | 2.9 | 66 |
| 14 | The unfolded protein response regulator ATF6 promotes mesodermal differentiation. <i>Science Signaling</i> , 2018, 11, . | 1.6 | 54 |
| 15 | Ceapins block the unfolded protein response sensor ATF6 by inducing a neomorphic inter-organelle tether. <i>ELife</i> , 2019, 8, . | 2.8 | 46 |
| 16 | Deconvoluting Stress-Responsive Proteostasis Signaling Pathways for Pharmacologic Activation Using Targeted RNA Sequencing. <i>ACS Chemical Biology</i> , 2019, 14, 784-795. | 1.6 | 45 |
| 17 | Peptide probes detect misfolded transthyretin oligomers in plasma of hereditary amyloidosis patients. <i>Science Translational Medicine</i> , 2017, 9, . | 5.8 | 44 |
| 18 | Insulin-like growth factor 2 (IGF2) protects against Huntington's disease through the extracellular disposal of protein aggregates. <i>Acta Neuropathologica</i> , 2020, 140, 737-764. | 3.9 | 43 |

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|----|---|-----|-----------|
| 19 | The endoplasmic reticulum <sc>HSP</sc>40 co-chaperone <sc>ER</sc>dj3</sc>DNAJB</sc>11 assembles and functions as a tetramer. EMBO Journal, 2017, 36, 2296-2309. | 3.5 | 38 |
| 20 | Determinants of Ligand Affinity and Heme Reactivity in H&NOX Domains. Angewandte Chemie - International Edition, 2010, 49, 720-723. | 7.2 | 33 |
| 21 | Use of a semisynthetic epitope to probe histidine kinase activity and regulation. Analytical Biochemistry, 2010, 397, 139-143. | 1.1 | 28 |
| 22 | Quantitative Interactome Proteomics Reveals a Molecular Basis for ATF6-Dependent Regulation of a Destabilized Amyloidogenic Protein. Cell Chemical Biology, 2019, 26, 913-925.e4. | 2.5 | 26 |
| 23 | Thyroglobulin Interactome Profiling Defines Altered Proteostasis Topology Associated With Thyroid Dysmorphogenesis. Molecular and Cellular Proteomics, 2021, 20, 100008. | 2.5 | 25 |
| 24 | Enforced dimerization between XBP1s and ATF6f enhances the protective effects of the UPR in models of neurodegeneration. Molecular Therapy, 2021, 29, 1862-1882. | 3.7 | 25 |
| 25 | Phosphorylation-dependent derepression by the response regulator HnoC in the <i>Shewanella oneidensis</i> nitric oxide signaling network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4648-57. | 3.3 | 24 |
| 26 | Small-molecule endoplasmic reticulum proteostasis regulator acts as a broad-spectrum inhibitor of dengue and Zika virus infections. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 22 |
| 27 | Apoptolidin family glycomacrolides target leukemia through inhibition of ATP synthase. Nature Chemical Biology, 2022, 18, 360-367. | 3.9 | 20 |
| 28 | Hyaluronan-Tethered Opioid Depots: Synthetic Strategies and Release Kinetics <i>In Vitro</i> and <i>In Vivo</i>. Bioconjugate Chemistry, 2008, 19, 1767-1774. | 1.8 | 15 |
| 29 | Comparative Host Interactomes of the SARS-CoV-2 Nonstructural Protein 3 and Human Coronavirus Homologs. Molecular and Cellular Proteomics, 2021, 20, 100120. | 2.5 | 15 |
| 30 | Methodology To Probe Subunit Interactions in Ribonucleotide Reductases. Biochemistry, 2008, 47, 13046-13055. | 1.2 | 14 |
| 31 | Modulating protein quality control. ELife, 2016, 5, . | 2.8 | 12 |
| 32 | Glycosylation limits forward trafficking of the tetraspan membrane protein PMP22. Journal of Biological Chemistry, 2021, 296, 100719. | 1.6 | 12 |
| 33 | Mutation in protein disulfide isomerase A3 causes neurodevelopmental defects by disturbing endoplasmic reticulum proteostasis. EMBO Journal, 2022, 41, e105531. | 3.5 | 11 |
| 34 | Protein disulfide isomerase ERp57 protects early muscle denervation in experimental ALS. Acta Neuropathologica Communications, 2021, 9, 21. | 2.4 | 10 |
| 35 | Structural Comparative Modeling of Multi-Domain F508del CFTR. Biomolecules, 2022, 12, 471. | 1.8 | 10 |
| 36 | Revealing functional insights into ER proteostasis through proteomics and interactomics. Experimental Cell Research, 2021, 399, 112417. | 1.2 | 8 |

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|----|---|-----|-----------|
| 37 | High-Throughput Screen Identifies Novel Small Molecule Stress Regulator That Confers Cardioprotection During Ischemia-Reperfusion Injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 112, 154. | 0.9 | 0 |
| 38 | Pharmacologic ATF6 Activation Confers Global Protection in Widespread Disease Models by Reprogramming Cellular Proteostasis. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 97. | 0.9 | 0 |
| 39 | Premature Activation of Immune Transcription Programs in Autoimmune-Predisposed Mouse Embryonic Stem Cells and Blastocysts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5743. | 1.8 | 0 |
| 40 | The Unfolded Protein Response Regulator, ATF6, Promotes Mesodermal Differentiation. <i>FASEB Journal</i> , 2018, 32, 542.23. | 0.2 | 0 |
| 41 | Abstract 547: Pharmacologic ATF6 Activation Confers Global Protection in Widespread Disease Models by Reprogramming Cellular Proteostasis. <i>Circulation Research</i> , 2018, 123, . | 2.0 | 0 |