# Jeremy E Turnbull

List of Publications by Year
in descending order

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| 72 | 5,493 | 117571 | 91828 |
|---|---|---|---|
| papers | citations | 34 h-index | 69 g-index |

| 82 | 82 | 82 | 6815 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Extracellular matrix and cell signalling: the dynamic cooperation of integrin, proteoglycan and growth factor receptor. Journal of Endocrinology, 2011, 209, 139-151. | 1.2 | 985 |
| 2 | Heparan sulfate: decoding a dynamic multifunctional cell regulator. Trends in Cell Biology, 2001, 11, 75-82. | 3.6 | 440 |
| 3 | Heparan Sulfate Oligosaccharides Require 6-O-Sulfation for Promotion of Basic Fibroblast Growth Factor Mitogenic Activity. Journal of Biological Chemistry, 1998, 273, 22936-22942. | 1.6 | 263 |
| 4 | Modular Synthesis of Heparan Sulfate Oligosaccharides for Structureâ˜'Activity Relationship Studies. Journal of the American Chemical Society, 2009, 131, 17394-17405. | 6.6 | 246 |
| 5 | Interactions of heparin/heparan sulfate with proteins: Appraisal of structural factors and experimental approaches. Glycobiology, 2004, 14, 17R-30R. | 1.3 | 231 |
| 6 | Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. Thrombosis and Haemostasis, 2020, 120, 1700-1715. | 1.8 | 228 |
| 7 | Fibroblast growth factor receptor signalling is dictated by specific heparan sulphate saccharides. Current Biology, 1999, 9, 1343-1346. | 1.8 | 186 |
| 8 | Heparan sulfate regulates amyloid precursor protein processing by BACE1, the Alzheimer's Î²-secretase. Journal of Cell Biology, 2003, 163, 97-107. | 2.3 | 175 |
| 9 | Structural Modification of Fibroblast Growth Factor-binding Heparan Sulfate at a Determinative Stage of Neural Development. Journal of Biological Chemistry, 1998, 273, 4350-4359. | 1.6 | 165 |
| 10 | Heparan Sulfate Undergoes Specific Structural Changes during the Progression from Human Colon Adenoma to Carcinoma in Vitro. Journal of Biological Chemistry, 1998, 273, 51-57. | 1.6 | 119 |
| 11 | Fabrication of Carbohydrate Microarrays on Gold Surfaces:Â Direct Attachment of Nonderivatized Oligosaccharides to Hydrazide-Modified Self-Assembled Monolayers. Analytical Chemistry, 2006, 78, 4786-4793. | 3.2 | 118 |
| 12 | A Molecular Mechanism for the Heparan Sulfate Dependence of Slit-Robo Signaling. Journal of Biological Chemistry, 2006, 281, 39693-39698. | 1.6 | 99 |
| 13 | How members of the human gut microbiota overcome the sulfation problem posed by glycosaminoglycans. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7037-7042. | 3.3 | 99 |
| 14 | A Versatile Gold Surface Approach for Fabrication and Interrogation of Glycoarrays. ChemBioChem, 2008, 9, 1568-1575. | 1.3 | 88 |
| 15 | Synthesis of a Targeted Library of Heparan Sulfate Hexaâ€•to Dodecasaccharides as Inhibitors of Î²â€Secretase: Potential Therapeutics for Alzheimerâ€™s Disease. Chemistry - A European Journal, 2013, 19, 6817-6823. | 1.7 | 80 |
| 16 | Unfractionated heparin inhibits live wild type SARSâ€CoVâ€2 cell infectivity at therapeutically relevant concentrations. British Journal of Pharmacology, 2021, 178, 626-635. | 2.7 | 73 |
| 17 | Heparin Derivatives as Inhibitors of BACE-1, the Alzheimer's Î²-Secretase, with Reduced Activity against Factor Xa and Other Proteases. Journal of Medicinal Chemistry, 2006, 49, 6129-6132. | 2.9 | 69 |
| 18 | Influence of substitution pattern and cation binding on conformation and activity in heparin derivatives. Glycobiology, 2007, 17, 983-993. | 1.3 | 66 |

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|---|---|---|---|
| 19 | Variant heparan sulfates synthesized in developing mouse brain differentially regulate FGF signaling. Glycobiology, 2002, 12, 721-727. | 1.3 | 64 |
| 20 | Towards GAG glycomics: Analysis of highly sulfated heparins by MALDI-TOF massÂspectrometry. Glycobiology, 2007, 17, 972-982. | 1.3 | 62 |
| 21 | Synthetic Heparan Sulfate Mimetic Pixatimod (PG545) Potently Inhibits SARS-CoV-2 by Disrupting the Spikeâ€“ACE2 Interaction. ACS Central Science, 2022, 8, 527-545. | 5.3 | 62 |
| 22 | Intrinsic tryptophan fluorescence spectroscopy reliably determines galectin-ligand interactions. Scientific Reports, 2019, 9, 11851. | 1.6 | 52 |
| 23 | Disaccharide compositional analysis of heparan sulfate and heparin polysaccharides using UV or high-sensitivity fluorescence (BODIPY) detection. Nature Protocols, 2010, 5, 1983-1992. | 5.5 | 47 |
| 24 | Generating heparan sulfate saccharide libraries for glycomics applications. Nature Protocols, 2010, 5, 821-833. | 5.5 | 47 |
| 25 | Sulf1 and Sulf2 Differentially Modulate Heparan Sulfate Proteoglycan Sulfation during Postnatal Cerebellum Development: Evidence for Neuroprotective and Neurite Outgrowth Promoting Functions. PLoS ONE, 2015, 10, e0139853. | 1.1 | 45 |
| 26 | Rapid Purification and High Sensitivity Analysis of Heparan Sulfate from Cells and Tissues. Journal of Biological Chemistry, 2009, 284, 25714-25722. | 1.6 | 44 |
| 27 | Chemically modified, non-anticoagulant heparin derivatives are potent galectin-3 binding inhibitors and inhibit circulating galectin-3-promoted metastasis. Oncotarget, 2015, 6, 23671-23687. | 0.8 | 43 |
| 28 | Nanoscale self-assembled multivalent (SAMul) heparin binders in highly competitive, biologically relevant, aqueous media. Chemical Science, 2014, 5, 1484. | 3.7 | 42 |
| 29 | Microwave enhanced reaction of carbohydrates with amino-derivatised labels and glass surfaces. Journal of Materials Chemistry, 2003, 13, 2061. | 6.7 | 41 |
| 30 | The Satellite Cell Niche Regulates the Balance between Myoblast Differentiation and Self-Renewal via p53. Stem Cell Reports, 2018, 10, 970-983. | 2.3 | 41 |
| 31 | Highly Diverse Heparan Sulfate Analogue Libraries:â€‰ Providing Access to Expanded Areas of Sequence Space for Bioactivity Screening. Journal of Medicinal Chemistry, 2004, 47, 277-280. | 2.9 | 39 |
| 32 | Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481. | 5.8 | 39 |
| 33 | Differential Sulfation Remodelling of Heparan Sulfate by Extracellular 6-O-Sulfatases Regulates Fibroblast Growth Factor-Induced Boundary Formation by Glial Cells: Implications for Glial Cell Transplantation. Journal of Neuroscience, 2012, 32, 15902-15912. | 1.7 | 38 |
| 34 | Singleâ€Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. Angewandte Chemie - International Edition, 2015, 54, 2718-2723. | 7.2 | 34 |
| 35 | Software Tool for the Structural Determination of Glycosaminoglycans by Mass Spectrometry. Analytical Chemistry, 2008, 80, 9204-9212. | 3.2 | 33 |
| 36 | Heparan Sulfate Proteoglycan Synthesis Is Dysregulated in Human Osteoarthritic Cartilage. American Journal of Pathology, 2019, 189, 632-647. | 1.9 | 33 |

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|---|---|---|---|
| 37 | Evidence of a putative glycosaminoglycan binding site on the glycosylated SARS-CoV-2 spike protein N-terminal domain. Computational and Structural Biotechnology Journal, 2021, 19, 2806-2818. | 1.9 | 33 |
| 38 | The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models. Frontiers in Pharmacology, 2021, 12, 660490. | 1.6 | 31 |
| 39 | Dendrimer Heparan Sulfate Glycomimetics: Potent Heparanase Inhibitors for Anticancer Therapy. ACS Chemical Biology, 2018, 13, 3236-3242. | 1.6 | 28 |
| 40 | Versatile Separation and Analysis of Heparan Sulfate Oligosaccharides Using Graphitized Carbon Liquid Chromatography and Electrospray Mass Spectrometry. Analytical Chemistry, 2017, 89, 8942-8950. | 3.2 | 27 |
| 41 | Heparan sulfate glycomics: towards systems biology strategies. Biochemical Society Transactions, 2010, 38, 1356-1360. | 1.6 | 26 |
| 42 | Glycoarray Technologies: Deciphering Interactions from Proteins to Live Cell Responses. Microarrays (Basel, Switzerland), 2016, 5, 3. | 1.4 | 26 |
| 43 | The potential for circular dichroism as an additional facile and sensitive method of monitoring low-molecular-weight heparins and heparinoids. Thrombosis and Haemostasis, 2009, 102, 874-878. | 1.8 | 25 |
| 44 | Glycomics Profiling of Heparan Sulfate Structure and Activity. Methods in Enzymology, 2010, 480, 65-85. | 0.4 | 25 |
| 45 | Dissecting structure-function of 3-O-sulfated heparin and engineered heparan sulfates. Science Advances, 2021, 7, eabl6026. | 4.7 | 23 |
| 46 | Array-Based Functional Screening of Heparin Glycans. Chemistry and Biology, 2012, 19, 553-558. | 6.2 | 22 |
| 47 | Composition, Sequencing and Ion Mobility Mass Spectrometry of Heparan Sulfate-like Octasaccharide Isomers Differing in Glucuronic and Iduronic Acid Content. European Journal of Mass Spectrometry, 2015, 21, 245-254. | 0.5 | 20 |
| 48 | Cryogenic Infrared Spectroscopy Reveals Structural Modularity in the Vibrational Fingerprints of Heparan Sulfate Diastereomers. Analytical Chemistry, 2020, 92, 10228-10232. | 3.2 | 20 |
| 49 | Labelling Heparan Sulphate Saccharides with Chromophore, Fluorescence and Mass Tags for HPLC and MS Separations. , 2009, 534, 157-169. | | 20 |
| 50 | Getting the Farm Out of Pharma for Heparin Production. Science, 2011, 334, 462-463. | 6.0 | 19 |
| 51 | Heparin Isomeric Oligosaccharide Separation Using Volatile Salt Strong Anion Exchange Chromatography. Analytical Chemistry, 2016, 88, 11542-11550. | 3.2 | 19 |
| 52 | 2-O Heparan Sulfate Sulfation by Hs2st Is Required for Erk/Mapk Signalling Activation at the Mid-Gestational Mouse Telencephalic Midline. PLoS ONE, 2015, 10, e0130147. | 1.1 | 19 |
| 53 | Sulfataseâ€mediated manipulation of the astrocyteâ€Schwann cell interface. Glia, 2017, 65, 19-33. | 2.5 | 18 |
| 54 | Low sulfated heparins target multiple proteins for central nervous system repair. Glia, 2019, 67, 668-687. | 2.5 | 18 |

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|---|---|---|---|
| 55 | By-Products of Heparin Production Provide a Diverse Source of Heparin-like and Heparan Sulfate Glycosaminoglycans. Scientific Reports, 2019, 9, 2679. | 1.6 | 18 |
| 56 | Distinct patterns of heparan sulphate in pancreatic islets suggest novel roles in paracrine islet regulation. Molecular and Cellular Endocrinology, 2015, 399, 296-310. | 1.6 | 17 |
| 57 | Cations Modulate Polysaccharide Structure To Determine FGFâ^'FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. Biochemistry, 2009, 48, 4772-4779. | 1.2 | 16 |
| 58 | Engineered Bio-Active Polysaccharides from Heparin. Macromolecular Bioscience, 2006, 6, 681-686. | 2.1 | 15 |
| 59 | A Highâ€Fat Highâ€Fructose Diet Dysregulates the Homeostatic Crosstalk Between Gut Microbiome, Metabolome, and Immunity in an Experimental Model of Obesity. Molecular Nutrition and Food Research, 2022, 66, e2100950. | 1.5 | 15 |
| 60 | Saccharide Microarrays for High-Throughput Interrogation of Glycan-Protein Binding Interactions. , 2009, 534, 312-329. | | 14 |
| 61 | Interaction with the heparin-derived binding inhibitors destabilizes galectin-3 protein structure. Biochemical and Biophysical Research Communications, 2020, 523, 336-341. | 1.0 | 12 |
| 62 | Enrichment of Two Isomeric Heparin Oligosaccharides Exhibiting Different Affinities toward Monocyte Chemoattractant Protein-1. Analytical Chemistry, 2016, 88, 11551-11558. | 3.2 | 11 |
| 63 | Integral Glycan Sequencing of Heparan Sulfate and Heparin Saccharides. , 2001, 171, 129-139. | | 10 |
| 64 | Synthetic sugars enhance the functional glycomics toolkit. Nature Chemical Biology, 2006, 2, 449-450. | 3.9 | 9 |
| 65 | MYCN-Dependent Expression of Sulfatase-2 Regulates Neuroblastoma Cell Survival. Cancer Research, 2014, 74, 5999-6009. | 0.4 | 9 |
| 66 | Singleâ€Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. Angewandte Chemie, 2015, 127, 2756-2761. | 1.6 | 9 |
| 67 | Omics Insights into Metabolic Stress and Resilience of Rats in Response to Shortâ€term Fructose Overfeeding. Molecular Nutrition and Food Research, 2019, 63, e1900773. | 1.5 | 8 |
| 68 | Glycomics: Technologies Taming a Frontier Omics Field. OMICS A Journal of Integrative Biology, 2010, 14, 385-387. | 1.0 | 5 |
| 69 | Glycomics Approaches for the Bioassay and Structural Analysis of Heparin/Heparan Sulphates. Metabolites, 2012, 2, 1060-1089. | 1.3 | 4 |
| 70 | Better growth-factor binding aids tissue repair. Nature Biomedical Engineering, 2020, 4, 368-369. | 11.6 | 4 |
| 71 | Enhancing the glycosciences toolkit: new GAGs in the lineup. Nature Methods, 2018, 15, 867-868. | 9.0 | 3 |
| 72 | Tian-Huang Formula, a Traditional Chinese Medicinal Prescription, Improves Hepatosteatosis and Glucose Intolerance Targeting AKT-SREBP Nexus in Diet-Induced Obese Rats. Evidence-based Complementary and Alternative Medicine, 2021, 2021, 1-15. | 0.5 | 2 |