

# Richard D Unwin

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82  
papers

2,978  
citations

29  
h-index

53  
g-index

95  
ext. papers

3,425  
ext. citations

6.9  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
82	Systems-level dynamic analyses of fate change in murine embryonic stem cells. <i>Nature</i> , <b>2009</b> , 462, 358-63	10.4	237
81	Proteomic changes in renal cancer and co-ordinate demonstration of both the glycolytic and mitochondrial aspects of the Warburg effect. <i>Proteomics</i> , <b>2003</b> , 3, 1620-32	4.8	209
80	Eight-channel iTRAQ enables comparison of the activity of six leukemogenic tyrosine kinases. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 853-63	7.6	203
79	Simultaneous analysis of relative protein expression levels across multiple samples using iTRAQ isobaric tags with 2D nano LC-MS/MS. <i>Nature Protocols</i> , <b>2010</b> , 5, 1574-82	18.8	188
78	Multiple reaction monitoring to identify sites of protein phosphorylation with high sensitivity. <i>Molecular and Cellular Proteomics</i> , <b>2005</b> , 4, 1134-44	7.6	183
77	Quantitative proteomics reveals posttranslational control as a regulatory factor in primary hematopoietic stem cells. <i>Blood</i> , <b>2006</b> , 107, 4687-94	2.2	147
76	Quantitative proteomic analysis using isobaric protein tags enables rapid comparison of changes in transcript and protein levels in transformed cells. <i>Molecular and Cellular Proteomics</i> , <b>2005</b> , 4, 924-35	7.6	91
75	Graded perturbations of metabolism in multiple regions of human brain in Alzheimer's disease: Snapshot of a pervasive metabolic disorder. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 1084-92	6.9	85
74	A sensitive mass spectrometric method for hypothesis-driven detection of peptide post-translational modifications: multiple reaction monitoring-initiated detection and sequencing (MIDAS). <i>Nature Protocols</i> , <b>2009</b> , 4, 870-7	18.8	85
73	Regional protein expression in human Alzheimer's brain correlates with disease severity. <i>Communications Biology</i> , <b>2019</b> , 2, 43	6.7	79
72	Serological and proteomic evaluation of antibody responses in the identification of tumor antigens in renal cell carcinoma. <i>Proteomics</i> , <b>2003</b> , 3, 45-55	4.8	77
71	Proteomic analysis of primary cell lines identifies protein changes present in renal cell carcinoma. <i>Proteomics</i> , <b>2006</b> , 6, 2853-64	4.8	68
70	Mapping the differential distribution of proteoglycan core proteins in the adult human retina, choroid, and sclera <b>2012</b> , 53, 7528-38		66
69	Quantitative proteomics analysis demonstrates post-transcriptional regulation of embryonic stem cell differentiation to hematopoiesis. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 459-72	7.6	63
68	Peptide quantification using 8-plex isobaric tags and electron transfer dissociation tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1693-8	7.8	58
67	Metabolic Dysfunction Is Restricted to the Sciatic Nerve in Experimental Diabetic Neuropathy. <i>Diabetes</i> , <b>2016</b> , 65, 228-38	0.9	56
66	Relative quantification in proteomics: new approaches for biochemistry. <i>Trends in Biochemical Sciences</i> , <b>2006</b> , 31, 473-84	10.3	51

65	Evidence for widespread, severe brain copper deficiency in Alzheimer's dementia. <i>Metallomics</i> , <b>2017</b> , 9, 1106-1119	4.5	47
64	Quantification of proteins by iTRAQ. <i>Methods in Molecular Biology</i> , <b>2010</b> , 658, 205-15	1.4	47
63	Elevation of brain glucose and polyol-pathway intermediates with accompanying brain-copper deficiency in patients with Alzheimer's disease: metabolic basis for dementia. <i>Scientific Reports</i> , <b>2016</b> , 6, 27524	4.9	46
62	Statistical considerations of optimal study design for human plasma proteomics and biomarker discovery. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 2103-13	5.6	45
61	The potential for proteomic definition of stem cell populations. <i>Experimental Hematology</i> , <b>2003</b> , 31, 1147-59	4.7	44
60	Systematic proteome and transcriptome analysis of stem cell populations. <i>Cell Cycle</i> , <b>2006</b> , 5, 1587-91	4.7	43
59	Identification of elevated urea as a severe, ubiquitous metabolic defect in the brain of patients with Huntington's disease. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 468, 161-6	3.4	39
58	A label-free selected reaction monitoring workflow identifies a subset of pregnancy specific glycoproteins as potential predictive markers of early-onset pre-eclampsia. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 3148-59	7.6	39
57	A new strategy for MS/MS data acquisition applying multiple data dependent experiments on Orbitrap mass spectrometers in non-targeted metabolomic applications. <i>Metabolomics</i> , <b>2015</b> , 11, 1068-1080	4.7	37
56	Global effects of BCR/ABL and TEL/PDGFRbeta expression on the proteome and phosphoproteome: identification of the Rho pathway as a target of BCR/ABL. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 6316-26	5.4	36
55	The use of isobaric tag peptide labeling (iTRAQ) and mass spectrometry to examine rare, primitive hematopoietic cells from patients with chronic myeloid leukemia. <i>Molecular Biotechnology</i> , <b>2007</b> , 36, 81-9	3	31
54	Metabolite mapping reveals severe widespread perturbation of multiple metabolic processes in Huntington's disease human brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 1650-62	6.9	27
53	Cerebral Vitamin B5 (D-Pantothenic Acid) Deficiency as a Potential Cause of Metabolic Perturbation and Neurodegeneration in Huntington's Disease. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	26
52	The application of a hypothesis-driven strategy to the sensitive detection and location of acetylated lysine residues. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 1423-8	3.5	26
51	The application of targeted mass spectrometry-based strategies to the detection and localization of post-translational modifications. <i>Mass Spectrometry Reviews</i> , <b>2015</b> , 34, 595-626	11	24
50	Phosphodiesterase 5 inhibition improves contractile function and restores transverse tubule loss and catecholamine responsiveness in heart failure. <i>Scientific Reports</i> , <b>2019</b> , 9, 6801	4.9	22
49	Deficient copper concentrations in dried-defatted hepatic tissue from ob/ob mice: A potential model for study of defective copper regulation in metabolic liver disease. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 460, 549-54	3.4	21
48	Developmental fate determination and marker discovery in hematopoietic stem cell biology using proteomic fingerprinting. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 573-81	7.6	21

47	Vitamin B5 (d-pantothenic acid) localizes in myelinated structures of the rat brain: Potential role for cerebral vitamin B5 stores in local myelin homeostasis. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 522, 220-225	3.4	21
46	Urological malignancies and the proteomic-genomic interface. <i>Electrophoresis</i> , <b>1999</b> , 20, 3629-37	3.6	20
45	Rutin suppresses human-amylin/hIAPP misfolding and oligomer formation in-vitro, and ameliorates diabetes and its impacts in human-amylin/hIAPP transgenic mice. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 482, 625-631	3.4	19
44	How will haematologists use proteomics?. <i>Blood Reviews</i> , <b>2007</b> , 21, 315-26	11.1	19
43	A HPLC-SRM-MS based method for the detection and quantification of methotrexate in urine at doses used in clinical practice for patients with rheumatological disease: a potential measure of adherence. <i>Analyst, The</i> , <b>2015</b> , 140, 1981-7	5	18
42	Assessment of downstream effectors of BCR/ABL protein tyrosine kinase using combined proteomic approaches. <i>Proteomics</i> , <b>2010</b> , 10, 3321-42	4.8	16
41	Cognitive dysfunction in diabetic rats is prevented by pyridoxamine treatment. A multidisciplinary investigation. <i>Molecular Metabolism</i> , <b>2019</b> , 28, 107-119	8.8	15
40	Cerebral deficiency of vitamin B5 (d-pantothenic acid; pantothenate) as a potentially-reversible cause of neurodegeneration and dementia in sporadic Alzheimer's disease. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 527, 676-681	3.4	14
39	A specific PTPRC/CD45 phosphorylation event governed by stem cell chemokine CXCL12 regulates primitive hematopoietic cell motility. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 3319-29	7.6	12
38	Identification of nuclear protein targets for six leukemogenic tyrosine kinases governed by post-translational regulation. <i>PLoS ONE</i> , <b>2012</b> , 7, e38928	3.7	12
37	The use of missing values in proteomic data-independent acquisition mass spectrometry to enable disease activity discrimination. <i>Bioinformatics</i> , <b>2020</b> , 36, 2217-2223	7.2	12
36	Ribosome-associated nucleophosmin 1: increased expression and shuttling activity distinguishes prognostic subtypes in chronic lymphocytic leukaemia. <i>British Journal of Haematology</i> , <b>2010</b> , 148, 534-43 <sup>4.5</sup>	4.5	11
35	Phosphorylation of the leukemic oncoprotein EVI1 on serine 196 modulates DNA binding, transcriptional repression and transforming ability. <i>PLoS ONE</i> , <b>2013</b> , 8, e66510	3.7	11
34	Tumor Cell IDO Enhances Immune Suppression and Decreases Survival Independent of Tryptophan Metabolism in Glioblastoma. <i>Clinical Cancer Research</i> , <b>2021</b> , 27, 6514-6528	12.9	11
33	Shared perturbations in the metallome and metabolome of Alzheimer's, Parkinson's, Huntington's, and dementia with Lewy bodies: A systematic review. <i>Ageing Research Reviews</i> , <b>2020</b> , 63, 101152	12	10
32	Nano-scavengers for blood biomarker discovery in ovarian carcinoma. <i>Nano Today</i> , <b>2020</b> , 34, 100901	17.9	9
31	An assessment of peptide enrichment methods employing mTRAQ quantification approaches. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5604-10	7.8	9
30	Adipocyte NR1D1 dictates adipose tissue expansion during obesity. <i>ELife</i> , <b>2021</b> , 10,	8.9	9

29	Beyond factor H: The impact of genetic-risk variants for age-related macular degeneration on circulating factor-H-like 1 and factor-H-related protein concentrations. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 1385-1400	11	9
28	Evidence that levels of nine essential metals in post-mortem human-Alzheimer's-brain and ex vivo rat-brain tissues are unaffected by differences in post-mortem delay, age, disease staging, and brain bank location. <i>Metallomics</i> , <b>2020</b> , 12, 952-962	4.5	8
27	Plasma metals as potential biomarkers in dementia: a case-control study in patients with sporadic Alzheimer's disease. <i>BioMetals</i> , <b>2018</b> , 31, 267-276	3.4	8
26	Proteomic analysis reveals a novel mechanism induced by the leukemic oncogene Tel/PDGFR $\beta$ in stem cells: activation of the interferon response pathways. <i>Stem Cell Research</i> , <b>2010</b> , 5, 226-43	1.6	8
25	Development of a selected reaction monitoring mass spectrometry-based assay to detect asparaginyl endopeptidase activity in biological fluids. <i>Oncotarget</i> , <b>2016</b> , 7, 70822-70831	3.3	7
24	Streaming visualisation of quantitative mass spectrometry data based on a novel raw signal decomposition method. <i>Proteomics</i> , <b>2015</b> , 15, 1419-27	4.8	6
23	EVI1 carboxy-terminal phosphorylation is ATM-mediated and sustains transcriptional modulation and self-renewal via enhanced CtBP1 association. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 7662-7674	20.1	5
22	Application of the MIDAS approach for analysis of lysine acetylation sites. <i>Methods in Molecular Biology</i> , <b>2013</b> , 981, 25-36	1.4	5
21	Association of plasma trace element levels with neovascular age-related macular degeneration. <i>Experimental Eye Research</i> , <b>2020</b> , 201, 108324	3.7	5
20	Widespread Decreases in Cerebral Copper Are Common to Parkinson's Disease Dementia and Alzheimer's Disease Dementia. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 641222	5.3	5
19	Insights into the changes in the proteome of Alzheimer disease elucidated by a meta-analysis. <i>Scientific Data</i> , <b>2021</b> , 8, 312	8.2	2
18	Urological malignancies and the proteomic-genomic interface <b>1999</b> , 20, 3629		2
17	Quantitative data describing the impact of the flavonol rutin on in-vivo blood-glucose and fluid-intake profiles, and survival of human-amylin transgenic mice. <i>Data in Brief</i> , <b>2017</b> , 10, 298-303	1.2	1
16	Effects of Alterations of Post-Mortem Delay and Other Tissue-Collection Variables on Metabolite Levels in Human and Rat Brain. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	1
15	Epithelial cadherin regulates transition between the naïve and primed pluripotent states in mouse embryonic stem cells. <i>Stem Cells</i> , <b>2020</b> , 38, 1292-1306	5.8	1
14	A new paradigm for clinical biomarker discovery and screening with Mass Spectrometry through biomedical image analysis principles <b>2014</b> ,		1
13	Intravitreal administration of recombinant human opticin protects against hyperoxia-induced pre-retinal neovascularization.. <i>Experimental Eye Research</i> , <b>2021</b> , 215, 108908	3.7	1
12	Severe and Regionally Widespread Increases in Tissue Urea in the Human Brain Represent a Novel Finding of Pathogenic Potential in Parkinson's Disease Dementia. <i>Frontiers in Molecular Neuroscience</i> , <b>2021</b> , 14, 711396	6.1	1

11	Intravitreal Pharmacokinetic Study of the Antiangiogenic Glycoprotein Opticin. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 2390-2397	5.6	1
10	Regional protein expression in human Alzheimer's brain correlates with disease severity		1
9	An Esrrb and Nanog Cell Fate Regulatory Module Controlled by Feed Forward Loop Interactions. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 630067	5.7	1
8	A Multi-Omic Huntington's Disease Transgenic Sheep-Model Database for Investigating Disease Pathogenesis. <i>Journal of Huntingtons Disease</i> , <b>2021</b> , 10, 423-434	1.9	1
7	Contrasting Sodium and Potassium Perturbations in the Hippocampus Indicate Potential Na/K-ATPase Dysfunction in Vascular Dementia.. <i>Frontiers in Aging Neuroscience</i> , <b>2022</b> , 14, 822787	5.3	0
6	Widespread severe cerebral elevations of haptoglobin and haemopexin in sporadic Alzheimer's disease: Evidence for a pervasive microvasculopathy. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 555, 89-94	3.4	0
5	Mast cell infiltration of the choroid and protease release are early events in age-related macular degeneration associated with genetic risk at both chromosomes 1q32 and 10q26.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2118510119	11.5	0
4	Protein Acetylation and Methylation <b>2016</b> , 161-195		
3	Mass Spectrometry Methods for the Analysis of Isopeptides Generated from Mammalian Protein Ubiquitination and SUMOylation <b>2016</b> , 235-273		
2	Relative Quantification Mass Spectrometry Using iTRAQ Isobaric Tags <b>2012</b> , 77-95		
1	Global Proteomic Profiling of Embryonic Stem Cells Using iTRAQ Isobaric Tags with LC-MS/MS Quantification.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2490, 157-177	1.4	