Richard D Unwin

List of Publications by Year in Descending Order

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	Contrasting Sodium and Potassium Perturbations in the Hippocampus Indicate Potential Na/K-ATPase Dysfunction in Vascular Dementia.. *Frontiers in Aging Neuroscience*, **2022**, 14, 822787	5.3	0
81	Global Proteomic Profiling of Embryonic Stem Cells Using iTRAQ Isobaric Tags with LC-MS/MS Quantification.. *Methods in Molecular Biology*, **2022**, 2490, 157-177	1.4	
80	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.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2118510119	11.5	0
79	Insights into the changes in the proteome of Alzheimer disease elucidated by a meta-analysis. *Scientific Data*, **2021**, 8, 312	8.2	2
78	Intravitreal administration of recombinant human opticin protects against hyperoxia-induced pre-retinal neovascularization.. *Experimental Eye Research*, **2021**, 215, 108908	3.7	1
77	Severe and Regionally Widespread Increases in Tissue Urea in the Human Brain Represent a Novel Finding of Pathogenic Potential in Parkinson's Disease Dementia. *Frontiers in Molecular Neuroscience*, **2021**, 14, 711396	6.1	1
76	Widespread Decreases in Cerebral Copper Are Common to Parkinson's Disease Dementia and Alzheimer's Disease Dementia. *Frontiers in Aging Neuroscience*, **2021**, 13, 641222	5.3	5
75	An Esrrb and Nanog Cell Fate Regulatory Module Controlled by Feed Forward Loop Interactions. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 630067	5.7	1
74	Widespread severe cerebral elevations of haptoglobin and haemopexin in sporadic Alzheimer's disease: Evidence for a pervasive microvasculopathy. *Biochemical and Biophysical Research Communications*, **2021**, 555, 89-94	3.4	0
73	Adipocyte NR1D1 dictates adipose tissue expansion during obesity. *ELife*, **2021**, 10,	8.9	9
72	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. *American Journal of Human Genetics*, **2021**, 108, 1385-1400	11	9
71	A Multi-Omic Huntington's Disease Transgenic Sheep-Model Database for Investigating Disease Pathogenesis. *Journal of Huntingtons Disease*, **2021**, 10, 423-434	1.9	1
70	Tumor Cell IDO Enhances Immune Suppression and Decreases Survival Independent of Tryptophan Metabolism in Glioblastoma. *Clinical Cancer Research*, **2021**, 27, 6514-6528	12.9	11
69	Effects of Alterations of Post-Mortem Delay and Other Tissue-Collection Variables on Metabolite Levels in Human and Rat Brain. *Metabolites*, **2020**, 10,	5.6	1
68	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. *Metallomics*, **2020**, 12, 952-962	4.5	8
67	Cerebral deficiency of vitamin B5 (d-pantothenic acid; pantothenate) as a potentially-reversible cause of neurodegeneration and dementia in sporadic Alzheimer's disease. *Biochemical and Biophysical Research Communications*, **2020**, 527, 676-681	3.4	14
66	Nano-scavengers for blood biomarker discovery in ovarian carcinoma. *Nano Today*, **2020**, 34, 100901	17.9	9

65	Epithelial cadherin regulates transition between the naïve and primed pluripotent states in mouse embryonic stem cells. *Stem Cells*, **2020**, 38, 1292-1306	5.8	1
64	Intravitreal Pharmacokinetic Study of the Antiangiogenic Glycoprotein Opticin. *Molecular Pharmaceutics*, **2020**, 17, 2390-2397	5.6	1
63	Vitamin B5 (d-pantothenic acid) localizes in myelinated structures of the rat brain: Potential role for cerebral vitamin B5 stores in local myelin homeostasis. *Biochemical and Biophysical Research Communications*, **2020**, 522, 220-225	3.4	21
62	The use of missing values in proteomic data-independent acquisition mass spectrometry to enable disease activity discrimination. *Bioinformatics*, **2020**, 36, 2217-2223	7.2	12
61	Shared perturbations in the metallome and metabolome of Alzheimer's, Parkinson's, Huntington's, and dementia with Lewy bodies: A systematic review. *Ageing Research Reviews*, **2020**, 63, 101152	12	10
60	Association of plasma trace element levels with neovascular age-related macular degeneration. *Experimental Eye Research*, **2020**, 201, 108324	3.7	5
59	Cognitive dysfunction in diabetic rats is prevented by pyridoxamine treatment. A multidisciplinary investigation. *Molecular Metabolism*, **2019**, 28, 107-119	8.8	15
58	Regional protein expression in human Alzheimer's brain correlates with disease severity. *Communications Biology*, **2019**, 2, 43	6.7	79
57	Phosphodiesterase 5 inhibition improves contractile function and restores transverse tubule loss and catecholamine responsiveness in heart failure. *Scientific Reports*, **2019**, 9, 6801	4.9	22
56	Cerebral Vitamin B5 (D-Pantothenic Acid) Deficiency as a Potential Cause of Metabolic Perturbation and Neurodegeneration in Huntington's Disease. *Metabolites*, **2019**, 9,	5.6	26
55	Plasma metals as potential biomarkers in dementia: a case-control study in patients with sporadic Alzheimer's disease. *BioMetals*, **2018**, 31, 267-276	3.4	8
54	EVI1 carboxy-terminal phosphorylation is ATM-mediated and sustains transcriptional modulation and self-renewal via enhanced CtBP1 association. *Nucleic Acids Research*, **2018**, 46, 7662-7674	20.1	5
53	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. *Data in Brief*, **2017**, 10, 298-303	1.2	1
52	Evidence for widespread, severe brain copper deficiency in Alzheimer's dementia. *Metallomics*, **2017**, 9, 1106-1119	4.5	47
51	Rutin suppresses human-amylin/hIAPP misfolding and oligomer formation in-vitro, and ameliorates diabetes and its impacts in human-amylin/hIAPP transgenic mice. *Biochemical and Biophysical Research Communications*, **2017**, 482, 625-631	3.4	19
50	Metabolic Dysfunction Is Restricted to the Sciatic Nerve in Experimental Diabetic Neuropathy. *Diabetes*, **2016**, 65, 228-38	0.9	56
49	Protein Acetylation and Methylation **2016**, 161-195		
48	Mass Spectrometry Methods for the Analysis of Isopeptides Generated from Mammalian Protein Ubiquitination and SUMOylation **2016**, 235-273		

47	Metabolite mapping reveals severe widespread perturbation of multiple metabolic processes in Huntington's disease human brain. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1650-62	6.9	27
46	Graded perturbations of metabolism in multiple regions of human brain in Alzheimer's disease: Snapshot of a pervasive metabolic disorder. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1084-92	6.9	85
45	Development of a selected reaction monitoring mass spectrometry-based assay to detect asparaginyl endopeptidase activity in biological fluids. *Oncotarget*, **2016**, 7, 70822-70831	3.3	7
44	Elevation of brain glucose and polyol-pathway intermediates with accompanying brain-copper deficiency in patients with Alzheimer's disease: metabolic basis for dementia. *Scientific Reports*, **2016**, 6, 27524	4.9	46
43	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. *Biochemical and Biophysical Research Communications*, **2015**, 460, 549-54	3.4	21
42	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. *Analyst, The*, **2015**, 140, 1981-7	5	18
41	The application of targeted mass spectrometry-based strategies to the detection and localization of post-translational modifications. *Mass Spectrometry Reviews*, **2015**, 34, 595-626	11	24
40	Identification of elevated urea as a severe, ubiquitous metabolic defect in the brain of patients with Huntington's disease. *Biochemical and Biophysical Research Communications*, **2015**, 468, 161-6	3.4	39
39	Streaming visualisation of quantitative mass spectrometry data based on a novel raw signal decomposition method. *Proteomics*, **2015**, 15, 1419-27	4.8	6
38	A new strategy for MS/MS data acquisition applying multiple data dependent experiments on Orbitrap mass spectrometers in non-targeted metabolomic applications. *Metabolomics*, **2015**, 11, 1068-1080	4.7	37
37	A new paradigm for clinical biomarker discovery and screening with Mass Spectrometry through biomedical image analysis principles **2014**,		1
36	Application of the MIDAS approach for analysis of lysine acetylation sites. *Methods in Molecular Biology*, **2013**, 981, 25-36	1.4	5
35	A label-free selected reaction monitoring workflow identifies a subset of pregnancy specific glycoproteins as potential predictive markers of early-onset pre-eclampsia. *Molecular and Cellular Proteomics*, **2013**, 12, 3148-59	7.6	39
34	A specific PTPRC/CD45 phosphorylation event governed by stem cell chemokine CXCL12 regulates primitive hematopoietic cell motility. *Molecular and Cellular Proteomics*, **2013**, 12, 3319-29	7.6	12
33	Phosphorylation of the leukemic oncoprotein EVI1 on serine 196 modulates DNA binding, transcriptional repression and transforming ability. *PLoS ONE*, **2013**, 8, e66510	3.7	11
32	An assessment of peptide enrichment methods employing mTRAQ quantification approaches. *Analytical Chemistry*, **2012**, 84, 5604-10	7.8	9
31	Statistical considerations of optimal study design for human plasma proteomics and biomarker discovery. *Journal of Proteome Research*, **2012**, 11, 2103-13	5.6	45
30	Mapping the differential distribution of proteoglycan core proteins in the adult human retina, choroid, and sclera **2012**, 53, 7528-38		66

29	Identification of nuclear protein targets for six leukemogenic tyrosine kinases governed by post-translational regulation. *PLoS ONE*, **2012**, 7, e38928	3.7	12
28	Relative Quantification Mass Spectrometry Using iTRAQ Isobaric Tags **2012**, 77-95		
27	Ribosome-associated nucleophosmin 1: increased expression and shuttling activity distinguishes prognostic subtypes in chronic lymphocytic leukaemia. *British Journal of Haematology*, **2010**, 148, 534-43	4.5	11
26	Simultaneous analysis of relative protein expression levels across multiple samples using iTRAQ isobaric tags with 2D nano LC-MS/MS. *Nature Protocols*, **2010**, 5, 1574-82	18.8	188
25	Quantification of proteins by iTRAQ. *Methods in Molecular Biology*, **2010**, 658, 205-15	1.4	47
24	Proteomic analysis reveals a novel mechanism induced by the leukemic oncogene Tel/PDGFR□n stem cells: activation of the interferon response pathways. *Stem Cell Research*, **2010**, 5, 226-43	1.6	8
23	Assessment of downstream effectors of BCR/ABL protein tyrosine kinase using combined proteomic approaches. *Proteomics*, **2010**, 10, 3321-42	4.8	16
22	Systems-level dynamic analyses of fate change in murine embryonic stem cells. *Nature*, **2009**, 462, 358-62	30.4	237
21	A sensitive mass spectrometric method for hypothesis-driven detection of peptide post-translational modifications: multiple reaction monitoring-initiated detection and sequencing (MIDAS). *Nature Protocols*, **2009**, 4, 870-7	18.8	85
20	Peptide quantification using 8-plex isobaric tags and electron transfer dissociation tandem mass spectrometry. *Analytical Chemistry*, **2009**, 81, 1693-8	7.8	58
19	Quantitative proteomics analysis demonstrates post-transcriptional regulation of embryonic stem cell differentiation to hematopoiesis. *Molecular and Cellular Proteomics*, **2008**, 7, 459-72	7.6	63
18	Developmental fate determination and marker discovery in hematopoietic stem cell biology using proteomic fingerprinting. *Molecular and Cellular Proteomics*, **2008**, 7, 573-81	7.6	21
17	Eight-channel iTRAQ enables comparison of the activity of six leukemogenic tyrosine kinases. *Molecular and Cellular Proteomics*, **2008**, 7, 853-63	7.6	203
16	How will haematologists use proteomics?. *Blood Reviews*, **2007**, 21, 315-26	11.1	19
15	The application of a hypothesis-driven strategy to the sensitive detection and location of acetylated lysine residues. *Journal of the American Society for Mass Spectrometry*, **2007**, 18, 1423-8	3.5	26
14	The use of isobaric tag peptide labeling (iTRAQ) and mass spectrometry to examine rare, primitive hematopoietic cells from patients with chronic myeloid leukemia. *Molecular Biotechnology*, **2007**, 36, 81-9	3	31
13	Relative quantification in proteomics: new approaches for biochemistry. *Trends in Biochemical Sciences*, **2006**, 31, 473-84	10.3	51
12	Systematic proteome and transcriptome analysis of stem cell populations. *Cell Cycle*, **2006**, 5, 1587-91	4.7	43

11	Quantitative proteomics reveals posttranslational control as a regulatory factor in primary hematopoietic stem cells. *Blood*, **2006**, 107, 4687-94	2.2	147
10	Proteomic analysis of primary cell lines identifies protein changes present in renal cell carcinoma. *Proteomics*, **2006**, 6, 2853-64	4.8	68
9	Multiple reaction monitoring to identify sites of protein phosphorylation with high sensitivity. *Molecular and Cellular Proteomics*, **2005**, 4, 1134-44	7.6	183
8	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. *Journal of Biological Chemistry*, **2005**, 280, 6316-26	5.4	36
7	Quantitative proteomic analysis using isobaric protein tags enables rapid comparison of changes in transcript and protein levels in transformed cells. *Molecular and Cellular Proteomics*, **2005**, 4, 924-35	7.6	91
6	The potential for proteomic definition of stem cell populations. *Experimental Hematology*, **2003**, 31, 1147-59	3.1	44
5	Proteomic changes in renal cancer and co-ordinate demonstration of both the glycolytic and mitochondrial aspects of the Warburg effect. *Proteomics*, **2003**, 3, 1620-32	4.8	209
4	Serological and proteomic evaluation of antibody responses in the identification of tumor antigens in renal cell carcinoma. *Proteomics*, **2003**, 3, 45-55	4.8	77
3	Urological malignancies and the proteomic-genomic interface. *Electrophoresis*, **1999**, 20, 3629-37	3.6	20
2	Urological malignancies and the proteomic-genomic interface **1999**, 20, 3629		2
1	Regional protein expression in human Alzheimer's brain correlates with disease severity		1