Dario R Alessi

List of Publications by Year in Descending Order

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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.

126 papers	25,690 citations	65 h-index	150 g-index
150 ext. papers	28,619 ext. citations	8 avg, IF	6.87 L-index

#	Paper	IF	Citations
126	Development of BromoTag: A "Bump-and-Hole"-PROTAC System to Induce Potent, Rapid, and Selective Degradation of Tagged Target Proteins. *Journal of Medicinal Chemistry*, **2021**, 64, 15477-15502	8.3	5
125	Pathogenic LRRK2 control of primary cilia and Hedgehog signaling in neurons and astrocytes of mouse brain. *ELife*, **2021**, 10,	8.9	6
124	LRP10 interacts with SORL1 in the intracellular vesicle trafficking pathway in non-neuronal brain cells and localises to Lewy bodies in Parkinson's disease and dementia with Lewy bodies. *Acta Neuropathologica*, **2021**, 142, 117-137	14.3	0
123	Role of KLHL3 and dietary K in regulating KS-WNK1 expression. *American Journal of Physiology - Renal Physiology*, **2021**, 320, F734-F747	4.3	2
122	R1441G but not G2019S mutation enhances LRRK2 mediated Rab10 phosphorylation in human peripheral blood neutrophils. *Acta Neuropathologica*, **2021**, 142, 475-494	14.3	5
121	A plasmid DNA-launched SARS-CoV-2 reverse genetics system and coronavirus toolkit for COVID-19 research. *PLoS Biology*, **2021**, 19, e3001091	9.7	60
120	Deciphering the LRRK code: LRRK1 and LRRK2 phosphorylate distinct Rab proteins and are regulated by diverse mechanisms. *Biochemical Journal*, **2021**, 478, 553-578	3.8	8
119	Structural basis for the specificity of PPM1H phosphatase for Rab GTPases. *EMBO Reports*, **2021**, 22, e52675	6.5	1
118	Impact of Type II LRRK2 inhibitors on signaling and mitophagy. *Biochemical Journal*, **2021**, 478, 3555-3573	3.8	7
117	Development of a multiplexed targeted mass spectrometry assay for LRRK2-phosphorylated Rabs and Ser910/Ser935 biomarker sites. *Biochemical Journal*, **2021**, 478, 299-326	3.8	12
116	Accurate MS-based Rab10 Phosphorylation Stoichiometry Determination as Readout for LRRK2 Activity in Parkinson's Disease. *Molecular and Cellular Proteomics*, **2020**, 19, 1546-1560	7.6	20
115	Advances in elucidating the function of leucine-rich repeat protein kinase-2 in normal cells and Parkinson's disease. *Current Opinion in Cell Biology*, **2020**, 63, 102-113	9	40
114	Structural Basis for Rab8a Recruitment of RILPL2 via LRRK2 Phosphorylation of Switch 2. *Structure*, **2020**, 28, 406-417.e6	5.2	28
113	Human Peripheral Blood Neutrophil Isolation for Interrogating the Parkinson's Associated LRRK2 Kinase Pathway by Assessing Rab10 Phosphorylation. *Journal of Visualized Experiments*, **2020**,	1.6	6
112	Endogenous Rab29 does not impact basal or stimulated LRRK2 pathway activity. *Biochemical Journal*, **2020**, 477, 4397-4423	3.8	19
111	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. *Science*, **2020**, 370,	33.3	261
110	Design and Characterization of SGK3-PROTAC1, an Isoform Specific SGK3 Kinase PROTAC Degrader. *ACS Chemical Biology*, **2019**, 14, 2024-2034	4.9	42

109	Rapid and Reversible Knockdown of Endogenously Tagged Endosomal Proteins via an Optimized HaloPROTAC Degrader. *ACS Chemical Biology*, **2019**, 14, 882-892	4.9	44
108	Membrane association but not identity is required for LRRK2 activation and phosphorylation of Rab GTPases. *Journal of Cell Biology*, **2019**, 218, 4157-4170	7.3	43
107	PPM1H phosphatase counteracts LRRK2 signaling by selectively dephosphorylating Rab proteins. *ELife*, **2019**, 8,	8.9	43
106	Phosphoproteomics reveals that the hVPS34 regulated SGK3 kinase specifically phosphorylates endosomal proteins including Syntaxin-7, Syntaxin-12, RFIP4 and WDR44. *Biochemical Journal*, **2019** , 476, 3081-3107	3.8	6
105	Crystal structure of the WD40 domain dimer of LRRK2. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1579-1584	11.5	35
104	Discovery of potent and selective 5-azaindazole inhibitors of leucine-rich repeat kinase 2 (LRRK2) - Part 1. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 668-673	2.9	3
103	LRRK2 kinase in Parkinson's disease. *Science*, **2018**, 360, 36-37	33.3	145
102	LRRK2 activation in idiopathic Parkinson's disease. *Science Translational Medicine*, **2018**, 10,	17.5	218
101	The Parkinson's disease VPS35[D620N] mutation enhances LRRK2-mediated Rab protein phosphorylation in mouse and human. *Biochemical Journal*, **2018**, 475, 1861-1883	3.8	101
100	PP1 Phosphatase Complexes: Undruggable No Longer. *Cell*, **2018**, 174, 1049-1051	56.2	9
99	Structural and Atropisomeric Factors Governing the Selectivity of Pyrimido-benzodiazipinones as Inhibitors of Kinases and Bromodomains. *ACS Chemical Biology*, **2018**, 13, 2438-2448	4.9	31
98	Rab29 activation of the Parkinson's disease-associated LRRK2 kinase. *EMBO Journal*, **2018**, 37, 1-18	13	238
97	Mechanism of activation of SGK3 by growth factors via the Class 1 and Class 3 PI3Ks. *Biochemical Journal*, **2018**, 475, 117-135	3.8	20
96	Development of phospho-specific Rab protein antibodies to monitor activity of the LRRK2 Parkinson's disease kinase. *Biochemical Journal*, **2018**, 475, 1-22	3.8	79
95	Interrogating Parkinson's disease LRRK2 kinase pathway activity by assessing Rab10 phosphorylation in human neutrophils. *Biochemical Journal*, **2018**, 475, 23-44	3.8	84
94	A pathway for Parkinson's Disease LRRK2 kinase to block primary cilia and Sonic hedgehog signaling in the brain. *ELife*, **2018**, 7,	8.9	90
93	Nigrostriatal pathology with reduced astrocytes in LRRK2 S910/S935 phosphorylation deficient knockin mice. *Neurobiology of Disease*, **2018**, 120, 76-87	7.5	11
92	LRRK2 is a negative regulator of phagosome maturation in macrophages. *EMBO Journal*, **2018**, 37,	13	93

91	Regulation of membrane ruffling by polarized STIM1 and ORAI1 in cortactin-rich domains. *Scientific Reports*, **2017**, 7, 383	4.9	16
90	Small-Molecule Inhibitors of LRRK2. *Advances in Neurobiology*, **2017**, 14, 241-264	2.1	21
89	B-cell-intrinsic function of TAPP adaptors in controlling germinal center responses and autoantibody production in mice. *European Journal of Immunology*, **2017**, 47, 280-290	6.1	7
88	Homo-PROTACs: bivalent small-molecule dimerizers of the VHL E3 ubiquitin ligase to induce self-degradation. *Nature Communications*, **2017**, 8, 830	17.4	117
87	USP7 small-molecule inhibitors interfere with ubiquitin binding. *Nature*, **2017**, 550, 534-538	50.4	165
86	Vomocytosis of live pathogens from macrophages is regulated by the atypical MAP kinase ERK5. *Science Advances*, **2017**, 3, e1700898	14.3	33
85	Systematic proteomic analysis of LRRK2-mediated Rab GTPase phosphorylation establishes a connection to ciliogenesis. *ELife*, **2017**, 6,	8.9	211
84	Author response: Systematic proteomic analysis of LRRK2-mediated Rab GTPase phosphorylation establishes a connection to ciliogenesis **2017**,		3
83	Phos-tag analysis of Rab10 phosphorylation by LRRK2: a powerful assay for assessing kinase function and inhibitors. *Biochemical Journal*, **2016**, 473, 2671-85	3.8	107
82	PDK1-SGK1 Signaling Sustains AKT-Independent mTORC1 Activation and Confers Resistance to PI3K□nhibition. *Cancer Cell*, **2016**, 30, 229-242	24.3	134
81	Functional kinomics establishes a critical node of volume-sensitive cation-Cl cotransporter regulation in the mammalian brain. *Scientific Reports*, **2016**, 6, 35986	4.9	27
80	Phosphoproteomics reveals that Parkinson's disease kinase LRRK2 regulates a subset of Rab GTPases. *ELife*, **2016**, 5,	8.9	519
79	The hVps34-SGK3 pathway alleviates sustained PI3K/Akt inhibition by stimulating mTORC1 and tumour□growth. *EMBO Journal*, **2016**, 35, 1902-22	13	51
78	Phosphorylation of synaptic vesicle protein 2A at Thr84 by casein kinase 1 family kinases controls the specific retrieval of synaptotagmin-1. *Journal of Neuroscience*, **2015**, 35, 2492-507	6.6	46
77	Critical role of the SPAK protein kinase CCT domain in controlling blood pressure. *Human Molecular Genetics*, **2015**, 24, 4545-58	5.6	27
76	Photoactivatable Prodrugs of Antimelanoma Agent Vemurafenib. *ACS Chemical Biology*, **2015**, 10, 2099-107	4.9	40
75	Structural Characterization of LRRK2 Inhibitors. *Journal of Medicinal Chemistry*, **2015**, 58, 3751-6	8.3	24
74	Discovery of a Pyrrolopyrimidine (JH-II-127), a Highly Potent, Selective, and Brain Penetrant LRRK2 Inhibitor. *ACS Medicinal Chemistry Letters*, **2015**, 6, 584-9	4.3	34

73	USP45 deubiquitylase controls ERCC1-XPF endonuclease-mediated DNA damage responses. *EMBO Journal*, **2015**, 34, 326-43	13	31
72	Characterization of VPS34-IN1, a selective inhibitor of Vps34, reveals that the phosphatidylinositol 3-phosphate-binding SGK3 protein kinase is a downstream target of class III phosphoinositide 3-kinase. *Biochemical Journal*, **2014**, 463, 413-27	3.8	173
71	Interplay between Polo kinase, LKB1-activated NUAK1 kinase, PP1 MYPT1 phosphatase complex and the SCF rCP E3 ubiquitin ligase. *Biochemical Journal*, **2014**, 461, 233-45	3.8	15
70	Kinase and channel activity of TRPM6 are co-ordinated by a dimerization motif and pocket interaction. *Biochemical Journal*, **2014**, 460, 165-75	3.8	10
69	The WNK-regulated SPAK/OSR1 kinases directly phosphorylate and inhibit the K+-Cl- co-transporters. *Biochemical Journal*, **2014**, 458, 559-73	3.8	135
68	Structural and biochemical characterization of the KLHL3-WNK kinase interaction important in blood pressure regulation. *Biochemical Journal*, **2014**, 460, 237-46	3.8	49
67	Investigation of LKB1 Ser431 phosphorylation and Cys433 farnesylation using mouse knockin analysis reveals an unexpected role of prenylation in regulating AMPK activity. *Biochemical Journal*, **2014**, 458, 41-56	3.8	35
66	The WNK-SPAK/OSR1 pathway: master regulator of cation-chloride cotransporters. *Science Signaling*, **2014**, 7, re3	8.8	162
65	Structural determinants for ERK5 (MAPK7) and leucine rich repeat kinase 2 activities of benzo[e]pyrimido-[5,4-b]diazepine-6(11H)-ones. *European Journal of Medicinal Chemistry*, **2013**, 70, 758-67	6.8	35
64	Elevated SGK1 predicts resistance of breast cancer cells to Akt inhibitors. *Biochemical Journal*, **2013**, 452, 499-508	3.8	123
63	Comprehensive characterization and optimization of anti-LRRK2 (leucine-rich repeat kinase 2) monoclonal antibodies. *Biochemical Journal*, **2013**, 453, 101-13	3.8	69
62	The CUL3-KLHL3 E3 ligase complex mutated in Gordon's hypertension syndrome interacts with and ubiquitylates WNK isoforms: disease-causing mutations in KLHL3 and WNK4 disrupt interaction. *Biochemical Journal*, **2013**, 451, 111-22	3.8	147
61	SPAK/OSR1 regulate NKCC1 and WNK activity: analysis of WNK isoform interactions and activation by T-loop trans-autophosphorylation. *Biochemical Journal*, **2012**, 441, 325-37	3.8	91
60	Akt is efficiently activated by PIF-pocket- and PtdIns(3,4,5)P3-dependent mechanisms leading to resistance to PDK1 inhibitors. *Biochemical Journal*, **2012**, 448, 285-95	3.8	51
59	GSK2578215A; a potent and highly selective 2-arylmethyloxy-5-substitutent-N-arylbenzamide LRRK2 kinase inhibitor. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 5625-9	2.9	121
58	Brain Penetrant LRRK2 Inhibitor. *ACS Medicinal Chemistry Letters*, **2012**, 3, 658-662	4.3	98
57	The IkappaB kinase family phosphorylates the Parkinson's disease kinase LRRK2 at Ser935 and Ser910 during Toll-like receptor signaling. *PLoS ONE*, **2012**, 7, e39132	3.7	154
56	Protor-1 is required for efficient mTORC2-mediated activation of SGK1 in the kidney. *Biochemical Journal*, **2011**, 436, 169-79	3.8	139

55	Characterization of a selective inhibitor of the Parkinson's disease kinase LRRK2. *Nature Chemical Biology*, **2011**, 7, 203-5	11.7	321
54	Characterization of GSK2334470, a novel and highly specific inhibitor of PDK1. *Biochemical Journal*, **2011**, 433, 357-69	3.8	105
53	The nuts and bolts of AGC protein kinases. *Nature Reviews Molecular Cell Biology*, **2010**, 11, 9-22	48.7	970
52	Phosphorylation of STIM1 at ERK1/2 target sites modulates store-operated calcium entry. *Journal of Cell Science*, **2010**, 123, 3084-93	5.3	94
51	14-3-3 binding to LRRK2 is disrupted by multiple Parkinson's disease-associated mutations and regulates cytoplasmic localization. *Biochemical Journal*, **2010**, 430, 393-404	3.8	289
50	Inhibition of LRRK2 kinase activity leads to dephosphorylation of Ser(910)/Ser(935), disruption of 14-3-3 binding and altered cytoplasmic localization. *Biochemical Journal*, **2010**, 430, 405-13	3.8	296
49	New insights into mTOR signaling: mTORC2 and beyond. *Science Signaling*, **2009**, 2, pe27	8.8	148
48	Ku-0063794 is a specific inhibitor of the mammalian target of rapamycin (mTOR). *Biochemical Journal*, **2009**, 421, 29-42	3.8	381
47	Substrate specificity and inhibitors of LRRK2, a protein kinase mutated in Parkinson's disease. *Biochemical Journal*, **2009**, 424, 47-60	3.8	169
46	mTOR complex 2 (mTORC2) controls hydrophobic motif phosphorylation and activation of serum- and glucocorticoid-induced protein kinase 1 (SGK1). *Biochemical Journal*, **2008**, 416, 375-85	3.8	691
45	The regulation of salt transport and blood pressure by the WNK-SPAK/OSR1 signalling pathway. *Journal of Cell Science*, **2008**, 121, 3293-304	5.3	222
44	Use of Akt inhibitor and a drug-resistant mutant validates a critical role for protein kinase B/Akt in the insulin-dependent regulation of glucose and system A amino acid uptake. *Journal of Biological Chemistry*, **2008**, 283, 27653-27667	5.4	86
43	Structure of the OSR1 kinase, a hypertension drug target. *Proteins: Structure, Function and Bioinformatics*, **2008**, 73, 1082-7	4.2	34
42	Structural insights into the recognition of substrates and activators by the OSR1 kinase. *EMBO Reports*, **2007**, 8, 839-45	6.5	77
41	The selectivity of protein kinase inhibitors: a further update. *Biochemical Journal*, **2007**, 408, 297-315	3.8	2080
40	LRRK2 phosphorylates moesin at threonine-558: characterization of how Parkinson's disease mutants affect kinase activity. *Biochemical Journal*, **2007**, 405, 307-17	3.8	414
39	LKB1-dependent signaling pathways. *Annual Review of Biochemistry*, **2006**, 75, 137-63	29.1	614
38	The WNK1 and WNK4 protein kinases that are mutated in Gordon's hypertension syndrome phosphorylate and activate SPAK and OSR1 protein kinases. *Biochemical Journal*, **2005**, 391, 17-24	3.8	388

37	In vivo role of the phosphate groove of PDK1 defined by knockin mutation. *Journal of Cell Science*, **2005**, 118, 5023-34	5.3	41
36	PDK1, the master regulator of AGC kinase signal transduction. *Seminars in Cell and Developmental Biology*, **2004**, 15, 161-70	7.5	621
35	In vivo role of the PIF-binding docking site of PDK1 defined by knock-in mutation. *EMBO Journal*, **2003**, 22, 4202-11	13	149
34	Phosphoprotein analysis using antibodies broadly reactive against phosphorylated motifs. *Journal of Biological Chemistry*, **2002**, 277, 39379-87	5.4	209
33	Signal Transduction Downstrean of PI 3-kinase. *Biochemical Society Transactions*, **2001**, 29, A59-A59	5.1	
32	Crystal structure of the phosphatidylinositol 3,4-bisphosphate-binding pleckstrin homology (PH) domain of tandem PH-domain-containing protein 1 (TAPP1): molecular basis of lipid specificity. *Biochemical Journal*, **2001**, 358, 287-294	3.8	76
31	Lithium inhibits caspase 3 activation and dephosphorylation of PKB and GSK3 induced by K+ deprivation in cerebellar granule cells. *Journal of Neurochemistry*, **2001**, 78, 199-206	6	79
30	The PI3KPDK1 connection: more than just a road to PKB. *Biochemical Journal*, **2000**, 346, 561-576	3.8	1274
29	Partial purification and characterization of a wortmannin-sensitive and insulin-stimulated protein kinase that activates heart 6-phosphofructo-2-kinase. *Biochemical Journal*, **2000**, 347, 305-312	3.8	24
28	Peroxovanadate induces tyrosine phosphorylation of phosphoinositide-dependent protein kinase-1 potential involvement of src kinase. *FEBS Journal*, **2000**, 267, 6642-9		40
27	Effects of exercise on mitogen- and stress-activated kinase signal transduction in human skeletal muscle. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2000**, 279, R1716-21	3.2	29
26	Functional counterparts of mammalian protein kinases PDK1 and SGK in budding yeast. *Current Biology*, **1999**, 9, 186-97	6.3	228
25	Characterisation of a plant 3-phosphoinositide-dependent protein kinase-1 homologue which contains a pleckstrin homology domain. *FEBS Letters*, **1999**, 451, 220-6	3.8	103
24	DAPP1: a dual adaptor for phosphotyrosine and 3-phosphoinositides. *Biochemical Journal*, **1999**, 342, 7-12	3.8	136
23	A possible mechanism by which Protein Kinase B is phosphorylated at Ser473. *Biochemical Society Transactions*, **1999**, 27, A73-A73	5.1	
22	A possible mechanism by which Protein Kinase B is phosphorylated at Ser473. *Biochemical Society Transactions*, **1999**, 27, A106-A106	5.1	
21	Suppression of cAMP/dexamethasone induced glucose-6-phosphatase gene transcription by insulin. *Biochemical Society Transactions*, **1999**, 27, A106-A106	5.1	
20	Mammalian target of rapamycin is a direct target for protein kinase B: identification of a convergence point for opposing effects of insulin and amino-acid deficiency on protein translation. *Biochemical Journal*, **1999**, 344, 427-431	3.8	717

19	Nerve growth factor promotes activation of the alpha, beta and gamma isoforms of protein kinase B in PC12 pheochromocytoma cells. *FEBS Journal*, **1998**, 251, 195-200		52
18	Activation of protein kinase B beta and gamma isoforms by insulin in vivo and by 3-phosphoinositide-dependent protein kinase-1 in vitro: comparison with protein kinase B alpha. *Biochemical Journal*, **1998**, 331 (Pt 1), 299-308	3.8	247
17	The protein kinase C inhibitors Ro 318220 and GF 109203X are equally potent inhibitors of MAPKAP kinase-1beta (Rsk-2) and p70 S6 kinase. *FEBS Letters*, **1997**, 402, 121-3	3.8	176
16	PDK1, one of the missing links in insulin signal transduction?. *FEBS Letters*, **1997**, 410, 3-10	3.8	203
15	Further evidence that the inhibition of glycogen synthase kinase-3beta by IGF-1 is mediated by PDK1/PKB-induced phosphorylation of Ser-9 and not by dephosphorylation of Tyr-216. *FEBS Letters* , **1997**, 416, 307-11	3.8	191
14	Characterization of a 3-phosphoinositide-dependent protein kinase which phosphorylates and activates protein kinase Balpha. *Current Biology*, **1997**, 7, 261-9	6.3	2350
13	3-Phosphoinositide-dependent protein kinase-1 (PDK1): structural and functional homology with the Drosophila DSTPK61 kinase. *Current Biology*, **1997**, 7, 776-89	6.3	633
12	Molecular basis for the substrate specificity of protein kinase B; comparison with MAPKAP kinase-1 and p70 S6 kinase. *FEBS Letters*, **1996**, 399, 333-8	3.8	517
11	Specific binding of the Akt-1 protein kinase to phosphatidylinositol 3,4,5-trisphosphate without subsequent activation. *Biochemical Journal*, **1996**, 315 (Pt 3), 709-13	3.8	278
10	Inhibition of glycogen synthase kinase-3 by insulin mediated by protein kinase B. *Nature*, **1995**, 378, 785-9	30.4	4296
9	Molecular cloning of cDNA encoding the 110 kDa and 21 kDa regulatory subunits of smooth muscle protein phosphatase 1M. *FEBS Letters*, **1994**, 356, 51-5	3.8	110
8	Inhibitor-2 functions like a chaperone to fold three expressed isoforms of mammalian protein phosphatase-1 into a conformation with the specificity and regulatory properties of the native enzyme. *FEBS Journal*, **1993**, 213, 1055-66		160
7	The control of protein phosphatase-1 by targetting subunits. The major myosin phosphatase in avian smooth muscle is a novel form of protein phosphatase-1. *FEBS Journal*, **1992**, 210, 1023-35		303
6	Endogenous Rab29 does not impact basal or nigericin and monensin stimulated LRRK2 pathway activity		5
5	Phosphoproteomics reveals that the hVPS34 regulated SGK3 kinase specifically phosphorylates endosomal proteins including Syntaxin-7, Syntaxin-12, RFIP4 and WDR44		1
4	Accurate MS-based Rab10 phosphorylation stoichiometry determination as readout for LRRK2 activity in Parkinson disease		2
3	Pathogenic LRRK2 control of primary cilia and Hedgehog signaling in neurons and astrocytes of mouse brain		1
2	Impact of Type II LRRK2 inhibitors on signalling and mitophagy		1

List of Publications

1 R1441G but not G201S mutation enhances LRRK2 mediated Rab10 phosphorylation in human peripheral blood neutrophils 1