

# Margherita Ruoppolo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5919580/publications.pdf>

Version: 2024-02-01

61  
papers

2,220  
citations

172457

29  
h-index

233421

45  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical validation of cutoff target ranges in newborn screening of metabolic disorders by tandem mass spectrometry: A worldwide collaborative project. <i>Genetics in Medicine</i> , 2011, 13, 230-254.	2.4	308
2	Enhanced interpretation of newborn screening results without analyte cutoff values. <i>Genetics in Medicine</i> , 2012, 14, 648-655.	2.4	117
3	Dysregulation of lipid metabolism and pathological inflammation in patients with COVID-19. <i>Scientific Reports</i> , 2021, 11, 2941.	3.3	102
4	Pro-sequence assisted folding and disulfide bond formation of human nerve growth factor. Dedicated to Rita Levi-Montalcini. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 305, 523-533.	4.2	90
5	Targeted metabolomics in the expanded newborn screening for inborn errors of metabolism. <i>Molecular BioSystems</i> , 2015, 11, 1525-1535.	2.9	73
6	Classical organic acidurias: diagnosis and pathogenesis. <i>Clinical and Experimental Medicine</i> , 2017, 17, 305-323.	3.6	69
7	Proteomics Identification of Acyl-acceptor and Acyl-donor Substrates for Transglutaminase in a Human Intestinal Epithelial Cell Line. <i>Journal of Biological Chemistry</i> , 2003, 278, 31766-31773.	3.4	62
8	The Serum Metabolome of Moderate and Severe COVID-19 Patients Reflects Possible Liver Alterations Involving Carbon and Nitrogen Metabolism. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9548.	4.1	56
9	Folding and Oxidation of the Antibody Domain CH3. <i>Journal of Molecular Biology</i> , 2002, 319, 1267-1277.	4.2	53
10	Maternal vitamin B12 deficiency detected in expanded newborn screening. <i>Clinical Biochemistry</i> , 2014, 47, 312-317.	1.9	53
11	Protein cross-talk in CD133+ colon cancer cells indicates activation of the Wnt pathway and upregulation of p20 that is potentially involved in tumorigenicity. <i>Proteomics</i> , 2012, 12, 2045-2059.	2.2	52
12	Protein-protein interaction networks as a new perspective to evaluate distinct functional roles of voltage-dependent anion channel isoforms. <i>Molecular BioSystems</i> , 2017, 13, 2466-2476.	2.9	50
13	Analysis of the Ribosomal Protein S19 Interactome. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 382-393.	3.8	49
14	COVIDomics: The Proteomic and Metabolomic Signatures of COVID-19. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2414.	4.1	49
15	Identification and Characterization of Structural Domains of Human ERp57. <i>Journal of Biological Chemistry</i> , 2004, 279, 13607-13615.	3.4	47
16	Human Serum Albumin Is an Essential Component of the Host Defense Mechanism Against <i>Clostridium difficile</i> Intoxication. <i>Journal of Infectious Diseases</i> , 2018, 218, 1424-1435.	4.0	45
17	Female and male human babies have distinct blood metabolomic patterns. <i>Molecular BioSystems</i> , 2015, 11, 2483-2492.	2.9	40
18	Targeted metabolomic profiling in rat tissues reveals sex differences. <i>Scientific Reports</i> , 2018, 8, 4663.	3.3	40

#	ARTICLE	IF	CITATIONS
19	Sex differences in the human metabolome. <i>Biology of Sex Differences</i> , 2022, 13, .	4.1	38
20	Proteomics Reveals that Methylmalonyl-CoA Mutase Modulates Cell Architecture and Increases Susceptibility to Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4998.	4.1	36
21	The proteome of cblC defect: in vivo elucidation of altered cellular pathways in humans. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 969-979.	3.6	34
22	Influence of Sex on Urinary Organic Acids: A Cross-Sectional Study in Children. <i>International Journal of Molecular Sciences</i> , 2020, 21, 582.	4.1	33
23	Serum metabolomic profiles suggest influence of sex and oral contraceptive use. <i>American Journal of Translational Research (discontinued)</i> , 2014, 6, 614-24.	0.0	33
24	Mass Spectrometry-Based Metabolomic and Proteomic Strategies in Organic Acidemias. <i>BioMed Research International</i> , 2016, 2016, 1-13.	1.9	32
25	Label-Free Quantitative Proteomics in a Methylmalonyl-CoA Mutase-Silenced Neuroblastoma Cell Line. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3580.	4.1	32
26	Targeted Metabolomic Analysis of a Mucopolysaccharidosis IIIB Mouse Model Reveals an Imbalance of Branched-Chain Amino Acid and Fatty Acid Metabolism. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4211.	4.1	32
27	Characterization of low-molecular-mass trypsin isoinhibitors from oil-rape ( <i>Brassica napus</i> var.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.2	31
28	The first case of mitochondrial acetoacetyl-CoA thiolase deficiency identified by expanded newborn metabolic screening in Italy: the importance of an integrated diagnostic approach. <i>Journal of Inherited Metabolic Disease</i> , 2010, 33, 91-94.	3.6	30
29	The proteome of methylmalonic acidemia (MMA): the elucidation of altered pathways in patient livers. <i>Molecular BioSystems</i> , 2016, 12, 566-574.	2.9	30
30	Proteomic Analysis of Mucopolysaccharidosis IIIB Mouse Brain. <i>Biomolecules</i> , 2020, 10, 355.	4.0	30
31	Challenges in Metabolomics-Based Tests, Biomarkers Revealed by Metabolomic Analysis, and the Promise of the Application of Metabolomics in Precision Medicine. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5213.	4.1	30
32	Long-term follow-up of patients with phenylketonuria treated with tetrahydrobiopterin: a seven years experience. <i>Orphanet Journal of Rare Diseases</i> , 2015, 10, 14.	2.7	29
33	Urine Proteomics Revealed a Significant Correlation Between Urine-Fibronectin Abundance and Estimated-GFR Decline in Patients with Bardet-Biedl Syndrome. <i>Kidney and Blood Pressure Research</i> , 2018, 43, 389-405.	2.0	28
34	Integration of Proteomics and Metabolomics in Exploring Genetic and Rare Metabolic Diseases. <i>Kidney Diseases (Basel, Switzerland)</i> , 2017, 3, 66-77.	2.5	26
35	Citrulline Blood Levels as Indicators of Residual Intestinal Absorption in Patients with Short Bowel Syndrome. <i>Annals of Nutrition and Metabolism</i> , 2008, 53, 137-142.	1.9	25
36	Transcription Factor TBX1 Overexpression Induces Downregulation of Proteins Involved in Retinoic Acid Metabolism: A Comparative Proteomic Analysis. <i>Journal of Proteome Research</i> , 2009, 8, 1515-1526.	3.7	25

#	ARTICLE	IF	CITATIONS
37	Insulin resistance in glycogen storage disease type Ia: linking carbohydrates and mitochondria?. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 985-995.	3.6	24
38	The first knock-in rat model for glutaric aciduria type I allows further insights into pathophysiology in brain and periphery. <i>Molecular Genetics and Metabolism</i> , 2021, 133, 157-181.	1.1	22
39	Differential proteomic analysis in human cells subjected to ribosomal stress. <i>Proteomics</i> , 2013, 13, 1220-1227.	2.2	20
40	Optimization of an HPLC method for phenylalanine and tyrosine quantization in dried blood spot. <i>Clinical Biochemistry</i> , 2013, 46, 1892-1895.	1.9	18
41	The saturation degree of fatty acids and their derived acylcarnitines determines the direct effect of metabolically active thyroid hormones on insulin sensitivity in skeletal muscle cells. <i>FASEB Journal</i> , 2019, 33, 1811-1823.	0.5	18
42	Dataset of a comparative proteomics experiment in a methylmalonyl-CoA mutase knockout HEK 293 cell model. <i>Data in Brief</i> , 2020, 33, 106453.	1.0	18
43	Proteomic and Bioinformatic Investigation of Altered Pathways in Neuroglobin-Deficient Breast Cancer Cells. <i>Molecules</i> , 2021, 26, 2397.	3.8	18
44	Sex Affects Human Premature Neonates' Blood Metabolome According to Gestational Age, Parenteral Nutrition, and Caffeine Treatment. <i>Metabolites</i> , 2021, 11, 158.	2.9	17
45	A knock-in rat model unravels acute and chronic renal toxicity in glutaric aciduria type I. <i>Molecular Genetics and Metabolism</i> , 2021, 134, 287-300.	1.1	17
46	Analysis of the interactome of ribosomal protein S19 mutants. <i>Proteomics</i> , 2014, 14, 2286-2296.	2.2	16
47	Proteomics and metabolomics studies exploring the pathophysiology of renal dysfunction in autosomal dominant polycystic kidney disease and other ciliopathies. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 1853-1861.	0.7	16
48	Gaining insights into the Bcr-Abl activity-independent mechanisms of resistance to imatinib mesylate in KCL22 cells: A comparative proteomic approach. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1974-1987.	2.3	15
49	Exercise with food withdrawal at thermoneutrality impacts fuel use, the microbiome, AMPK phosphorylation, muscle fibers, and thyroid hormone levels in rats. <i>Physiological Reports</i> , 2020, 8, e14354.	1.7	15
50	Galactosemia: Biochemistry, Molecular Genetics, Newborn Screening, and Treatment. <i>Biomolecules</i> , 2022, 12, 968.	4.0	15
51	Overexpression of Neuroglobin Promotes Energy Metabolism and Autophagy Induction in Human Neuroblastoma SH-SY5Y Cells. <i>Cells</i> , 2021, 10, 3394.	4.1	14
52	Biochemical and molecular characterization of 3-Methylcrotonylglycinuria in an Italian asymptomatic girl. <i>Genetics and Molecular Biology</i> , 2018, 41, 379-385.	1.3	8
53	Proteome data of neuroblastoma cells overexpressing Neuroglobin. <i>Data in Brief</i> , 2022, 41, 107843.	1.0	8
54	Unravelling pathways downstream Sox6 induction in K562 erythroid cells by proteomic analysis. <i>Scientific Reports</i> , 2017, 7, 14088.	3.3	6

#	ARTICLE	IF	CITATIONS
55	Deregulation of microtubule organization and RNA metabolism in <i>Arx</i> models for lissencephaly and developmental epileptic encephalopathy. <i>Human Molecular Genetics</i> , 2022, 31, 1884-1908.	2.9	6
56	Quantification of Imatinib Plasma Levels in Patients with Chronic Myeloid Leukemia: Comparison Between HPLC-UV and LC-MS/MS. <i>International Journal of Peptide Research and Therapeutics</i> , 2013, 19, 109-116.	1.9	5
57	ZSCAN4 <sup>+</sup> mouse embryonic stem cells have an oxidative and flexible metabolic profile. <i>EMBO Reports</i> , 2020, 21, e48942.	4.5	5
58	Targeted metabolomics. , 2022, , 219-236.		4
59	Hypermethioninemia in Campania: Results from 10 years of newborn screening. <i>Molecular Genetics and Metabolism Reports</i> , 2019, 21, 100520.	1.1	2
60	Beneficial Effects of Slow-Release Large Neutral Amino Acids after a Phenylalanine Oral Load in Patients with Phenylketonuria. <i>Nutrients</i> , 2021, 13, 4012.	4.1	2
61	Editorial for Special Issue: Neuroglobin from Brain Protection to Cancer Progression. <i>Cells</i> , 2022, 11, 2181.	4.1	0