

# Daniel Monleon

## List of Publications by Year in descending order

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115  
papers

3,488  
citations

126708

33  
h-index

149479

56  
g-index

116  
all docs

116  
docs citations

116  
times ranked

6229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triple-negative breast cancer: Present challenges and new perspectives. <i>Molecular Oncology</i> , 2010, 4, 209-229.	2.1	252
2	Snake venom disintegrins: evolution of structure and function. <i>Toxicon</i> , 2005, 45, 1063-1074.	0.8	246
3	Metabolite profiling of fecal water extracts from human colorectal cancer. <i>NMR in Biomedicine</i> , 2009, 22, 342-348.	1.6	179
4	Automatic Determination of Protein Backbone Resonance Assignments from Triple Resonance Nuclear Magnetic Resonance Data. <i>Methods in Enzymology</i> , 2001, 339, 91-108.	0.4	154
5	Inhibition of mitochondrial function by efavirenz increases lipid content in hepatic cells. <i>Hepatology</i> , 2010, 52, 115-125.	3.6	128
6	Multiproject multicenter evaluation of automatic brain tumor classification by magnetic resonance spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 5-18.	1.1	126
7	Hepatocyte MyD88 affects bile acids, gut microbiota and metabolome contributing to regulate glucose and lipid metabolism. <i>Gut</i> , 2017, 66, 620-632.	6.1	125
8	New pattern of EGFR amplification in glioblastoma and the relationship of gene copy number with gene expression profile. <i>Modern Pathology</i> , 2010, 23, 856-865.	2.9	88
9	Metabolomic Profile of Human Myocardial Ischemia by Nuclear Magnetic Resonance Spectroscopy of Peripheral Blood Serum. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1629-1641.	1.2	84
10	Metabolite identification in human liver needle biopsies by high-resolution magic angle spinning $^1\text{H}$ NMR spectroscopy. <i>NMR in Biomedicine</i> , 2006, 19, 90-100.	1.6	83
11	Microbiome-metabolome signatures in mice genetically prone to develop dementia, fed a normal or fatty diet. <i>Scientific Reports</i> , 2018, 8, 4907.	1.6	83
12	Metabolomic profiling in blood from umbilical cords of low birth weight newborns. <i>Journal of Translational Medicine</i> , 2012, 10, 142.	1.8	75
13	Human Breast Milk NMR Metabolomic Profile across Specific Geographical Locations and Its Association with the Milk Microbiota. <i>Nutrients</i> , 2018, 10, 1355.	1.7	74
14	Accurate classification of childhood brain tumours by in vivo $^1\text{H}$ MRS – A multi-centre study. <i>European Journal of Cancer</i> , 2013, 49, 658-667.	1.3	70
15	Solution NMR structure and folding dynamics of the N terminus of a rat non-muscle $\hat{\iota}$ -tropomyosin in an engineered chimeric protein 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2001, 312, 833-847.	2.0	65
16	Branched-Chain Amino Acids as Critical Switches in Health and Disease. <i>Hypertension</i> , 2018, 72, 1012-1022.	1.3	63
17	Benign and Atypical Meningioma Metabolic Signatures by High-Resolution Magic-Angle Spinning Molecular Profiling. <i>Journal of Proteome Research</i> , 2008, 7, 2882-2888.	1.8	59
18	Prognosis Biomarkers of Severe Sepsis and Septic Shock by $^1\text{H}$ NMR Urine Metabolomics in the Intensive Care Unit. <i>PLoS ONE</i> , 2015, 10, e0140993.	1.1	59

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19	RasGrf1 deficiency delays aging in mice. <i>Aging</i> , 2011, 3, 262-276.	1.4	59
20	Early, But Not Late Onset Estrogen Replacement Therapy Prevents Oxidative Stress and Metabolic Alterations Caused by Ovariectomy. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 236-246.	2.5	55
21	LDL particle size and composition and incident cardiovascular disease in a South-European population: The Hortegea-Liposcale Follow-up Study. <i>International Journal of Cardiology</i> , 2018, 264, 172-178.	0.8	52
22	Sex Differences in Age-Associated Type 2 Diabetes in Rats—Role of Estrogens and Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-13.	1.9	50
23	Chemotherapy-induced gastrointestinal toxicity is associated with changes in serum and urine metabolome and fecal microbiota in male Sprague-Dawley rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2017, 80, 317-332.	1.1	49
24	NMR Solution Structure of the Non-RGD Disintegrin Obtustatin. <i>Journal of Molecular Biology</i> , 2003, 329, 135-145.	2.0	48
25	Determination of metabolite concentrations in human brain tumour biopsy samples using HR-MAS and ERETIC measurements. <i>NMR in Biomedicine</i> , 2009, 22, 199-206.	1.6	47
26	Metabolomics of the aqueous humor in the rat glaucoma model induced by a series of intracameral sodium hyaluronate injection. <i>Experimental Eye Research</i> , 2015, 131, 84-92.	1.2	47
27	Amino acid sequence and homology modeling of obtustatin, a novel non-RGD-containing short disintegrin isolated from the venom of <i>Vipera lebetina obtusa</i> . <i>Protein Science</i> , 2003, 12, 366-371.	3.1	46
28	Conformation and concerted dynamics of the integrin-binding site and the C-terminal region of echistatin revealed by homonuclear NMR. <i>Biochemical Journal</i> , 2005, 387, 57-66.	1.7	44
29	Homology modeling using simulated annealing of restrained molecular dynamics and conformational search calculations with CONGEN: Application in predicting the three-dimensional structure of murine homeodomain Msx1. <i>Protein Science</i> , 1997, 6, 956-970.	3.1	42
30	Assessing model accuracy using the homology modeling automatically software. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 105-118.	1.5	42
31	cDNA Cloning and Functional Expression of Jerdostatin, a Novel RTS-disintegrin from <i>Trimeresurus jerdonii</i> and a Specific Antagonist of the $\alpha 1 \beta 1$ Integrin. <i>Journal of Biological Chemistry</i> , 2005, 280, 40714-40722.	1.6	41
32	Rapid analysis of protein backbone resonance assignments using cryogenic probes, a distributed Linux-based computing architecture, and an integrated set of spectral analysis tools. <i>Journal of Structural and Functional Genomics</i> , 2002, 2, 93-101.	1.2	38
33	Differential Effects of Dry Eye Disorders on Metabolomic Profile by <sup>1</sup> H Nuclear Magnetic Resonance Spectroscopy. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	37
34	Metabolic Aggressiveness in Benign Meningiomas with Chromosomal Instabilities. <i>Cancer Research</i> , 2010, 70, 8426-8434.	0.4	35
35	Metabolomic analysis of long-term spontaneous exercise in mice suggests increased lipolysis and altered glucose metabolism when animals are at rest. <i>Journal of Applied Physiology</i> , 2014, 117, 1110-1119.	1.2	35
36	Comparative metabolic profiling of paediatric ependymoma, medulloblastoma and pilocytic astrocytoma. <i>International Journal of Molecular Medicine</i> , 2010, 26, 941-8.	1.8	33

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37	Concerted Motions of the Integrin-binding Loop and the C-terminal Tail of the Non-RGD Disintegrin Obtustatin. <i>Journal of Biological Chemistry</i> , 2003, 278, 45570-45576.	1.6	32
38	A metabolomic approach to dry eye disorders. The role of oral supplements with antioxidants and omega 3 fatty acids. <i>Molecular Vision</i> , 2015, 21, 555-67.	1.1	32
39	Metabolic profile of chronic liver disease by NMR spectroscopy of human biopsies. <i>International Journal of Molecular Medicine</i> , 2011, 27, 111-7.	1.8	31
40	Using NMR in saliva to identify possible biomarkers of glioblastoma and chronic periodontitis. <i>PLoS ONE</i> , 2018, 13, e0188710.	1.1	30
41	Somatic copy number alterations are associated with EGFR amplification and shortened survival in patients with primary glioblastoma. <i>Neoplasia</i> , 2020, 22, 10-21.	2.3	28
42	Gene Expression Profiles of Metabolic Aggressiveness and Tumor Recurrence in Benign Meningioma. <i>PLoS ONE</i> , 2013, 8, e67291.	1.1	28
43	Metabolomics in the Diagnosis of Acute Myocardial Ischemia. <i>Journal of Cardiovascular Translational Research</i> , 2013, 6, 808-815.	1.1	27
44	Development and characterization of an experimental model of diet-induced metabolic syndrome in rabbit. <i>PLoS ONE</i> , 2017, 12, e0178315.	1.1	26
45	Peripheral blood mitochondrial DNA content in relation to circulating metabolites and inflammatory markers: A population study. <i>PLoS ONE</i> , 2017, 12, e0181036.	1.1	24
46	Diastolic left ventricular function in relation to circulating metabolic biomarkers in a population study. <i>European Journal of Preventive Cardiology</i> , 2019, 26, 22-32.	0.8	23
47	MRS as Endogenous Molecular Imaging for Brain and Prostate Tumors: FP6 Project "TUMOR". <i>Advances in Experimental Medicine and Biology</i> , 2006, 587, 285-302.	0.8	20
48	A thermodynamic, electrochemical and molecular dynamics study on NAD and NADP recognition by 1,4,7,10,13,16,19-heptaazacycloheptacosane ([21]aneN7). <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 23-32.	0.9	19
49	Compatibility between 3T <sup>1</sup> H SV-MRS data and automatic brain tumour diagnosis support systems based on databases of 1.5T 1H SV-MRS spectra. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011, 24, 35-42.	1.1	18
50	Genomic and Metabolomic Profile Associated to Microalbuminuria. <i>PLoS ONE</i> , 2014, 9, e98227.	1.1	18
51	Metastasizing anaplastic ependymoma in an adult. Chromosomal imbalances, metabolic and gene expression profiles. <i>Histopathology</i> , 2009, 54, 500-504.	1.6	16
52	Diastolic Left Ventricular Function in Relation to Circulating Metabolic Biomarkers in a General Population. <i>Journal of the American Heart Association</i> , 2016, 5, e002681.	1.6	16
53	Dental stem cell signaling pathway activation in response to hydraulic calcium silicate-based endodontic cements: A systematic review of in vitro studies. <i>Dental Materials</i> , 2021, 37, e256-e268.	1.6	16
54	HYPER: a hierarchical algorithm for automatic determination of protein dihedral-angle constraints and stereospecific C beta H2 resonance assignments from NMR data. <i>Journal of Biomolecular NMR</i> , 1999, 15, 251-264.	1.6	14

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55	Quantification and classification of high-resolution magic angle spinning data for brain tumor diagnosis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5407-10.	0.5	14
56	Incremental Gaussian Discriminant Analysis based on Graybill and Deal weighted combination of estimators for brain tumour diagnosis. Journal of Biomedical Informatics, 2011, 44, 677-687.	2.5	14
57	Roflumilast Prevents the Metabolic Effects of Bleomycin-Induced Fibrosis in a Murine Model. PLoS ONE, 2015, 10, e0133453.	1.1	14
58	Hydrogen- and Methane-Based Breath Testing and Outcomes in Patients With Heart Failure. Journal of Cardiac Failure, 2019, 25, 319-327.	0.7	14
59	Correlation between EGFR Amplification and the Expression of MicroRNA-200c in Primary Glioblastoma Multiforme. PLoS ONE, 2014, 9, e102927.	1.1	13
60	Moderate Red Wine Consumption Increases the Expression of Longevity-Associated Genes in Controlled Human Populations and Extends Lifespan in Drosophila melanogaster. Antioxidants, 2021, 10, 301.	2.2	13
61	SPINS: A laboratory information management system for organizing and archiving intermediate and final results from NMR protein structure determinations. Proteins: Structure, Function and Bioinformatics, 2006, 62, 843-851.	1.5	11
62	Bacterial metabolites trimethylamine N-oxide and butyrate as surrogates of small intestinal bacterial overgrowth in patients with a recent decompensated heart failure. Scientific Reports, 2021, 11, 6110.	1.6	11
63	Magnetic Resonance Microscopy at 14 Tesla and Correlative Histopathology of Human Brain Tumor Tissue. PLoS ONE, 2011, 6, e27442.	1.1	10
64	Metabolomics of the effect of AMPK activation by AICAR on human umbilical vein endothelial cells. International Journal of Molecular Medicine, 2011, 29, 88-94.	1.8	10
65	Genomic and Metabolomic Profile Associated to Clustering of Cardio-Metabolic Risk Factors. PLoS ONE, 2016, 11, e0160656.	1.1	10
66	Microvascular obstruction in the right ventricle in reperfused anterior myocardial infarction. Macroscopic and pathologic evidence in a swine model. Thrombosis Research, 2013, 132, 592-598.	0.8	9
67	A Multidisciplinary Assessment of Remote Myocardial Fibrosis After Reperfused Myocardial Infarction in Swine and Patients. Journal of Cardiovascular Translational Research, 2016, 9, 321-333.	1.1	9
68	Association between epidermal growth factor receptor amplification and ADP-ribosylation factor 1 methylation in human glioblastoma. Cellular Oncology (Dordrecht), 2017, 40, 389-399.	2.1	9
69	Gene-environment interaction analysis of redox-related metals and genetic variants with plasma metabolic patterns in a general population from Spain: The Hortega Study. Redox Biology, 2022, 52, 102314.	3.9	9
70	Analysis of LDL and HDL size and number by nuclear magnetic resonance in a healthy working population: The LipoLab Study. International Journal of Clinical Practice, 2021, 75, e13610.	0.8	8
71	Letter to the Editor: Backbone <sup>1</sup> H, <sup>15</sup> N and <sup>13</sup> C assignments for the 21 kDa Caenorhabditis elegans homologue of 'brain-specific' protein. Journal of Biomolecular NMR, 2004, 28, 91-92.	1.6	7
72	Analysis of Metabolic and Gene Expression Changes after Hydrodynamic DNA Injection into Mouse Liver. Biological and Pharmaceutical Bulletin, 2011, 34, 167-172.	0.6	7

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73	Homology predicted structure and comparison with the secondary structure from NMR data for plastocyanin for the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Inorganica Chimica Acta</i> , 1998, 275-276, 73-89.	1.2	6
74	Structural insights into the GTPase domain of <i>Escherichia coli</i> MnmE protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 726-739.	1.5	6
75	Plasma metabolomics profiling for the prediction of cytomegalovirus DNAemia and analysis of virus-host interaction in allogeneic stem cell transplant recipients. <i>Journal of General Virology</i> , 2015, 96, 3373-3381.	1.3	6
76	Study of electrostatic potential surface distribution of wild-type plastocyanin <i>Synechocystis</i> solution structure determined by homonuclear NMR. <i>Biopolymers</i> , 2003, 70, 212-220.	1.2	5
77	NMR study of hexanucleotide d(CCGCGG) <sub>2</sub> containing two triplet repeats of fragile X syndrome. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 81-90.	1.0	5
78	The Status of EGFR Modulates the Effect of miRNA-200c on ZEB1 Expression and Cell Migration in Glioblastoma Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 368.	1.8	5
79	Magnetic resonance microscopy and correlative histopathology of the infarcted heart. <i>Scientific Reports</i> , 2019, 9, 20017.	1.6	4
80	Letter to the Editor: Backbone <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N Resonance Assignments for the 18.7 kDa GTPase Domain of <i>Escherichia Coli</i> MnmE Protein. <i>Journal of Biomolecular NMR</i> , 2004, 28, 307-308.	1.6	3
81	Combining -omics in the search for mechanisms in complex trait diseases. <i>Journal of Hypertension</i> , 2015, 33, 698-699.	0.3	3
82	Two-Week Aflibercept or Erlotinib Administration Does Not Induce Changes in Intestinal Morphology in Male Sprague-Dawley Rats But Aflibercept Affects Serum and Urine Metabolic Profiles. <i>Translational Oncology</i> , 2019, 12, 1122-1130.	1.7	3
83	Lifelong soya consumption in males does not increase lifespan but increases health span under a metabolic stress such as type 2 diabetes mellitus. <i>Mechanisms of Ageing and Development</i> , 2021, 200, 111596.	2.2	3
84	Rodent models and metabolomics in non-alcoholic fatty liver disease: What can we learn?. <i>World Journal of Hepatology</i> , 2022, 14, 304-318.	0.8	3
85	Sex Dimorphism in the Metabolome of Metabolic Syndrome in Morbidly Obese Individuals. <i>Metabolites</i> , 2022, 12, 419.	1.3	3
86	Neurodegenerative changes are prevented by Erythropoietin in the pmn model of motoneuron degeneration. <i>Neuropharmacology</i> , 2014, 83, 137-153.	2.0	2
87	Validation of a plasma metabolomics model that allows anticipation of the occurrence of cytomegalovirus DNAemia in allogeneic stem cell transplant recipients. <i>Journal of Medical Microbiology</i> , 2018, 67, 814-819.	0.7	2
88	Letter to the Editor: Solution structure of hypothetical protein TA1414 from <i>Thermoplasma acidophilum</i> . <i>Journal of Biomolecular NMR</i> , 2004, 28, 81-84.	1.6	1
89	NMR and homology modeling studies of copper(II)-halocyanin from <i>Natronobacterium pharaonis</i> bacteria. <i>Inorganica Chimica Acta</i> , 2004, 357, 1111-1118.	1.2	1
90	Resonance Assignments for the Hypothetical Protein TA0938 from <i>Thermoplasma Acidophilum</i> . <i>Journal of Biomolecular NMR</i> , 2006, 36, 36-36.	1.6	1

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91	6C.04. Journal of Hypertension, 2015, 33, e80.	0.3	1
92	Magnetic resonance microimaging of a swine infarcted heart: Performing cardiac virtual histologies. , 2015, 2015, 1584-7.		1
93	Primary Glioblastoma with Different Patterns of EGFR Amplification and the Relationship with Gene Expression Profile. , 0, , .		1
94	Structural Proteomics of Eukaryotic Gene Families. Scientific World Journal, The, 2002, 2, 32-32.	0.8	0
95	NMR structure of hypothetical protein TA0938 from Thermoplasma acidophilum. Proteins: Structure, Function and Bioinformatics, 2007, 67, 1185-1188.	1.5	0
96	Efavirenz induces alterations in lipid metabolism through AMPK activation. Journal of the International AIDS Society, 2008, 11, P120.	1.2	0
97	Meningioma Tumors: Detection of Subgroups. , 2012, , 101-110.		0
98	Microvascular obstruction in the right ventricle in reperfused anterior myocardial infarction: macroscopic and pathologic evidence in a swine model. European Heart Journal, 2013, 34, P5540-P5540.	1.0	0
99	151 Impact of EGFR amplification pattern on the expression of miRNA-200c in primary glioblastoma multiforme. European Journal of Cancer, 2014, 50, 51-52.	1.3	0
100	PP.28.24. Journal of Hypertension, 2015, 33, e380.	0.3	0
101	PETra: software tool for a semiautomatic positron emission tomography image analysis and its application to the study of brain glucose consumption in rats. IEEE Latin America Transactions, 2015, 13, 876-884.	1.2	0
102	1.1 DIASTOLIC LEFT VENTRICULAR FUNCTION IN RELATION TO CIRCULATING METABOLIC BIOMARKERS IN A GENERAL POPULATION. Artery Research, 2015, 12, 39.	0.3	0
103	[OP.7B.03] BLOOD PRESSURE AND OBESITY METABOLOMIC STRATIFIED ANALYSIS OF A SPANISH GENERAL POPULATION. Journal of Hypertension, 2016, 34, e86.	0.3	0
104	[PP.07.11] SUBCLINICAL FRUCTOSE-INDUCED METABOLIC SYNDROME ASSOCIATED TO HOST-MICROBIOTA CO-METABOLISM IN RATS. Journal of Hypertension, 2016, 34, e156.	0.3	0
105	[OP.3C.05] LDL-PARTICLES COMPOSITION AND INCIDENT CARDIOVASCULAR DISEASE IN A SOUTH-EUROPEAN POPULATION. Journal of Hypertension, 2017, 35, e31.	0.3	0
106	A4983 LIVER METABOLIC PROFILE AND HISTOLOGICAL QUANTIFICATION OF FAT IN RATS FED WITH A HIGH "FRUCTOSE DIET. Journal of Hypertension, 2018, 36, e22.	0.3	0
107	MICROBIOTA CO-METABOLISM MODULATION AND EARLY DEVELOPMENT OF CARDIOMETABOLIC DISEASE ON HOST ORGANISM ANALYZED BASED ON METABOLOMICS AND PYROSEQUENCING. Journal of Hypertension, 2018, 36, e240.	0.3	0
108	ALTERATIONS IN METABOLIC PROFILE AND LIVER HISTOLOGY OF LEAN RATS UNDER HIGH FRUCTOSE DIET. Journal of Hypertension, 2018, 36, e211.	0.3	0

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109	A0203 Left Ventricular Function in Relation to Circulating Metabolic Biomarkers. Journal of Hypertension, 2018, 36, e3.	0.3	0
110	A4512 Subclinical metabolic alterations in rats fed with high-fructose diet are sexually dimorphic. Journal of Hypertension, 2018, 36, e21-e22.	0.3	0
111	Combining HR-MAS and In Vivo MRI and MRSI Information for Robust Brain Tumor Recognition. IFMBE Proceedings, 2009, , 340-343.	0.2	0
112	Cellusim: Un simulador 3D en entorno videojuego para la docencia del laboratorio de cultivos celulares. , 0, , .		0
113	La motivaci3n de las tareas digitales mediante "pseudo-ApS" en Biolog3a Celular del grado de Medicina. , 0, , .		0
114	Whole-exome sequencing, amplification and infiltration patterns in human glioblastoma. American Journal of Cancer Research, 2021, 11, 5543-5558.	1.4	0
115	Liver and White/Brown Fat Dystrophy Associates with Gut Microbiota and Metabolomic Alterations in 3xTg Alzheimer's Disease Mouse Model. Metabolites, 2022, 12, 278.	1.3	0