

# Helena Molina-Abril

## List of Publications by Year in descending order

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31  
papers

428  
citations

840776

11  
h-index

752698

20  
g-index

33  
all docs

33  
docs citations

33  
times ranked

700  
citing authors

#	ARTICLE	IF	CITATIONS
1	An altered microbiota pattern precedes Type 2 diabetes mellitus development: From the CORDIOPREV study. <i>Journal of Advanced Research</i> , 2022, 35, 99-108.	9.5	22
2	On the Topological Disparity Characterization of Square-Pixel Binary Image Data by Labeled Bipartite Graph. <i>Lecture Notes in Computer Science</i> , 2022, , 515-527.	1.3	0
3	A microbiota-based predictive model for type 2 diabetes remission induced by dietary intervention: From the CORDIOPREV study. <i>Clinical and Translational Medicine</i> , 2021, 11, e326.	4.0	3
4	Building Hierarchical Tree Representations Using Homological-Based Tools. <i>Lecture Notes in Computer Science</i> , 2021, , 120-130.	1.3	0
5	Parallel connected-Component-Labeling based on homotopy trees. <i>Pattern Recognition Letters</i> , 2020, 131, 71-78.	4.2	9
6	Generating (co)homological information using boundary scale. <i>Pattern Recognition Letters</i> , 2020, 133, 240-246.	4.2	3
7	Neonatal exposure to androgens dynamically alters gut microbiota architecture. <i>Journal of Endocrinology</i> , 2020, 247, 69-85.	2.6	12
8	Interplay between gonadal hormones and postnatal overfeeding in defining sex-dependent differences in gut microbiota architecture. <i>Aging</i> , 2020, 12, 19979-20000.	3.1	14
9	Deregulation of miR-324/KISS1/kisspeptin in early ectopic pregnancy: mechanistic findings with clinical and diagnostic implications. <i>American Journal of Obstetrics and Gynecology</i> , 2019, 220, 480.e1-480.e17.	1.3	21
10	Sex Differences in the Gut Microbiota as Potential Determinants of Gender Predisposition to Disease. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800870.	3.3	103
11	Computing the Component-Labeling and the Adjacency Tree of a Binary Digital Image in Near Logarithmic-Time. <i>Lecture Notes in Computer Science</i> , 2019, , 82-95.	1.3	4
12	Generating Second Order (Co)homological Information within AT-Model Context. <i>Lecture Notes in Computer Science</i> , 2019, , 68-81.	1.3	0
13	Homological Region Adjacency Tree for a 3D Binary Digital Image via HSF Model. <i>Lecture Notes in Computer Science</i> , 2019, , 375-387.	1.3	1
14	Circulating miRNAs as Predictive Biomarkers of Type 2 Diabetes Mellitus Development in Coronary Heart Disease Patients from the CORDIOPREV Study. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 12, 146-157.	5.1	80
15	European Randomized Study of Screening for Prostate Cancer Risk Calculator: External Validation, Variability, and Clinical Significance. <i>Urology</i> , 2017, 102, 85-91.	1.0	16
16	Learning Biomarker Models for Progression Estimation of Alzheimer's Disease. <i>PLoS ONE</i> , 2016, 11, e0153040.	2.5	21
17	Multi-stage Biomarker Models for Progression Estimation in Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2015, 24, 387-398.	1.3	13
18	Searching combinatorial optimality using graph-based homology information. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2015, 26, 103-120.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Connectivity calculus of fractal polyhedrons. Pattern Recognition, 2015, 48, 1150-1160.	8.1	11
20	Topo-Geometric Filtration Scheme for Geometric Active Contours and Level Sets: Application to Cerebrovascular Segmentation. Lecture Notes in Computer Science, 2014, 17, 755-762.	1.3	2
21	Designing a new software tool for Digital Imagery based on P systems. Natural Computing, 2012, 11, 381-386.	3.0	7
22	Homological optimality in Discrete Morse Theory through chain homotopies. Pattern Recognition Letters, 2012, 33, 1501-1506.	4.2	14
23	Searching high order invariants in computer imagery. Applicable Algebra in Engineering, Communications and Computing, 2012, 23, 17-28.	0.5	7
24	Homological spanning forest framework for 2D image analysis. Annals of Mathematics and Artificial Intelligence, 2012, 64, 385-409.	1.3	21
25	Triangle Mesh Compression and Homological Spanning Forests. Lecture Notes in Computer Science, 2012, , 108-116.	1.3	1
26	A Homological-Based Description of Subdivided nD Objects. Lecture Notes in Computer Science, 2011, , 42-50.	1.3	5
27	A bio-inspired software for segmenting digital images. , 2010, , .		6
28	Cell AT-Models for Digital Volumes. Lecture Notes in Computer Science, 2009, , 314-323.	1.3	5
29	Decomposing Cavities in Digital Volumes into Products of Cycles. Lecture Notes in Computer Science, 2009, , 263-274.	1.3	1
30	Integral Operators for Computing Homology Generators at Any Dimension. Lecture Notes in Computer Science, 2008, , 356-363.	1.3	15
31	Advanced Homology Computation of Digital Volumes Via Cell Complexes. Lecture Notes in Computer Science, 2008, , 361-371.	1.3	8