

# Horacio Bach

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6099911/horacio-bach-publications-by-citations.pdf>

**Version:** 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85  
papers

3,769  
citations

28  
h-index

60  
g-index

89  
ext. papers

4,607  
ext. citations

4.9  
avg, IF

5.68  
L-index

#	Paper	IF	Citations
85	Metal nanoparticles: understanding the mechanisms behind antibacterial activity. <i>Journal of Nanobiotechnology</i> , <b>2017</b> , 15, 65	9.4	831
84	Synthesis, characterization, and evaluation of antimicrobial and cytotoxic effect of silver and titanium nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2010</b> , 6, 681-8	6	325
83	Mycobacterium tuberculosis protein tyrosine phosphatase (PtpA) excludes host vacuolar-H <sup>+</sup> -ATPase to inhibit phagosome acidification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19371-6	11.5	256
82	Antibacterial activity, inflammatory response, coagulation and cytotoxicity effects of silver nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 328-36	6	219
81	Mycobacterium tuberculosis virulence is mediated by PtpA dephosphorylation of human vacuolar protein sorting 33B. <i>Cell Host and Microbe</i> , <b>2008</b> , 3, 316-22	23.4	214
80	Anti-biofilm activity of silver nanoparticles against different microorganisms. <i>Biofouling</i> , <b>2013</b> , 29, 651-660	3	160
79	Escherichia coli maltose-binding protein as a molecular chaperone for recombinant intracellular cytoplasmic single-chain antibodies. <i>Journal of Molecular Biology</i> , <b>2001</b> , 312, 79-93	6.5	154
78	Fusidic acid and rifampicin co-loaded PLGA nanofibers for the prevention of orthopedic implant associated infections. <i>Journal of Controlled Release</i> , <b>2013</b> , 170, 64-73	11.7	89
77	Ergothioneine Maintains Redox and Bioenergetic Homeostasis Essential for Drug Susceptibility and Virulence of Mycobacterium tuberculosis. <i>Cell Reports</i> , <b>2016</b> , 14, 572-585	10.6	83
76	The 1.92-Å structure of Streptomyces coelicolor A3(2) CYP154C1. A new monooxygenase that functionalizes macrolide ring systems. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 12214-21	5.4	71
75	Mycobacterium tuberculosis PtkA is a novel protein tyrosine kinase whose substrate is PtpA. <i>Biochemical Journal</i> , <b>2009</b> , 420, 155-60	3.8	62
74	Lipoamide dehydrogenase mediates retention of coronin-1 on BCG vacuoles, leading to arrest in phagosome maturation. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 2796-806	5.3	62
73	Mycobacterium tuberculosis transporter MmpL7 is a potential substrate for kinase PknD. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 348, 6-12	3.4	61
72	MmpS4 promotes glycopeptidolipids biosynthesis and export in Mycobacterium smegmatis. <i>Molecular Microbiology</i> , <b>2010</b> , 78, 989-1003	4.1	58
71	The Consensus from the (MAP) Conference 2017. <i>Frontiers in Public Health</i> , <b>2017</b> , 5, 208	6	56
70	The STEAP protein family: versatile oxidoreductases and targets for cancer immunotherapy with overlapping and distinct cellular functions. <i>Biology of the Cell</i> , <b>2012</b> , 104, 641-57	3.5	55
69	An exocellular protein from the oil-degrading microbe Acinetobacter venetianus RAG-1 enhances the emulsifying activity of the polymeric bioemulsifier emulsan. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 2608-15	4.8	55

68	Treatment of COVID-19 with convalescent plasma: lessons from past coronavirus outbreaks. <i>Clinical Microbiology and Infection</i> , <b>2020</b> , 26, 1436-1446	9.5	53
67	Comparison of the 1.85 Å structure of CYP154A1 from <i>Streptomyces coelicolor</i> A3(2) with the closely related CYP154C1 and CYPs from antibiotic biosynthetic pathways. <i>Protein Science</i> , <b>2004</b> , 13, 255-68	6.3	48
66	Antimicrobial activity of Mexican oregano ( <i>Lippia berlandieri</i> ), thyme ( <i>Thymus vulgaris</i> ), and mustard ( <i>Brassica nigra</i> ) essential oils in gaseous phase. <i>Industrial Crops and Products</i> , <b>2019</b> , 131, 90-95	5.9	46
65	Bacterial P450-catalyzed polyketide hydroxylation on a microfluidic platform. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 88, 528-35	4.9	42
64	Phase separation and clustering of an ABC transporter in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16326-16331	11.5	38
63	<i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> PtpA is an endogenous tyrosine phosphatase secreted during infection. <i>Infection and Immunity</i> , <b>2006</b> , 74, 6540-6	3.7	38
62	<i>Mycobacterium tuberculosis</i> promotes anti-apoptotic activity of the macrophage by PtpA protein-dependent dephosphorylation of host GSK3β. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 29376-85	5.4	36
61	Regulation of Ergothioneine Biosynthesis and Its Effect on <i>Mycobacterium tuberculosis</i> Growth and Infectivity. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 23064-76	5.4	35
60	Antifungal activity of essential oils extracted from <i>Agastache mexicana</i> ssp. <i>xolocotziana</i> and <i>Porophyllum linaria</i> against post-harvest pathogens. <i>Industrial Crops and Products</i> , <b>2015</b> , 74, 178-182	5.9	35
59	Antimicrobial, anti-inflammatory, antiparasitic, and cytotoxic activities of <i>Galium mexicanum</i> . <i>Journal of Ethnopharmacology</i> , <b>2011</b> , 137, 141-7	5	34
58	Biodiesel production and de-oiled seed cake nutritional values of a Mexican edible <i>Jatropha curcas</i> . <i>Renewable Energy</i> , <b>2015</b> , 76, 143-147	8.1	31
57	Toxicity, antimicrobial and anthelmintic activities of <i>Vernonia guineensis</i> Benth. (Asteraceae) crude extracts. <i>Journal of Ethnopharmacology</i> , <b>2012</b> , 144, 700-4	5	26
56	Glutathione disulfide and S-nitrosoglutathione detoxification by <i>Mycobacterium tuberculosis</i> thioredoxin system. <i>FEBS Letters</i> , <b>2009</b> , 583, 3215-20	3.8	23
55	Disruption of the serine/threonine protein kinase H affects phthiocerol dimycocerosates synthesis in <i>Mycobacterium tuberculosis</i> . <i>Microbiology (United Kingdom)</i> , <b>2013</b> , 159, 726-736	2.9	20
54	Immunogenicity of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> proteins in Crohn's disease patients. <i>Scandinavian Journal of Gastroenterology</i> , <b>2011</b> , 46, 30-9	2.4	20
53	Exploiting the reaction flexibility of a type III polyketide synthase through in vitro pathway manipulation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 64-5	16.4	20
52	Current and Future Development in Lung Cancer Diagnosis. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	20
51	Toxicity evaluation of high-fluorescent rare-earth metal nanoparticles for bioimaging applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 605-615	3.5	19

50	Effective Control of Molds Using a Combination of Nanoparticles. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169940	3.7	19
49	Antimicrobial activities of sesquiterpene lactones and inositol derivatives from <i>Hymenoxys robusta</i> . <i>Phytochemistry</i> , <b>2011</b> , 72, 2413-8	4	18
48	Molecular cloning and biochemical characterization of a serine threonine protein kinase, PknL, from <i>Mycobacterium tuberculosis</i> . <i>Protein Expression and Purification</i> , <b>2008</b> , 58, 309-17	2	18
47	Novel Lignin-Capped Silver Nanoparticles against Multidrug-Resistant Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22098-22109	9.5	17
46	Antimicrobial, Cytotoxic, and Anti-Inflammatory Activities of and Essential Oils. <i>BioMed Research International</i> , <b>2019</b> , 2019, 1639726	3	16
45	Treatment of Crohn's disease patients with infliximab is detrimental for the survival of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> within macrophages and shows a remarkable decrease in the immunogenicity of mycobacterial proteins. <i>Journal of Crohn's and Colitis</i> , <b>2012</b> , 6, 628-9	1.5	16
44	Targeting the CALCB/RAMP1 axis inhibits growth of Ewing sarcoma. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 116	9.8	16
43	Antimicrobial activity, cytotoxicity and inflammatory response of novel plastics embedded with silver nanoparticles. <i>Future Microbiology</i> , <b>2013</b> , 8, 403-11	2.9	14
42	High levels of antibodies against PtpA and PknG secreted by <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> are present in neuromyelitis optica spectrum disorder and multiple sclerosis patients. <i>Journal of Neuroimmunology</i> , <b>2018</b> , 323, 49-52	3.5	13
41	Hydrogel-embedded gold nanorods activated by plasmonic phototherapy with potent antimicrobial activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 22, 102093	6	13
40	Antimicrobial, antiparasitic, anti-inflammatory, and cytotoxic activities of <i>Lopezia racemosa</i> . <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 237438	2.2	13
39	PtpA and PknG Proteins Secreted by subsp. are Recognized by Sera from Patients with Rheumatoid Arthritis: A Case-Control Study. <i>Journal of Inflammation Research</i> , <b>2019</b> , 12, 301-308	4.8	13
38	Biodiesel production from <i>Cascabela ovata</i> seed oil. <i>Bioresource Technology Reports</i> , <b>2019</b> , 7, 100220	4.1	12
37	Antimicrobial, cytotoxic, and anti-inflammatory activities of <i>Pleopeltis polylepis</i> . <i>Journal of Ethnopharmacology</i> , <b>2016</b> , 194, 981-986	5	12
36	Spermidine/spermine -acetyltransferase-1 is a diagnostic biomarker in human cancer. <i>Future Science OA</i> , <b>2018</b> , 4, FSO345	2.7	11
35	What Role Does <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Play in Crohn's Disease?. <i>Current Infectious Disease Reports</i> , <b>2015</b> , 17, 463	3.9	10
34	Effective control of biofilms by photothermal therapy using a gold nanorod hydrogel. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 333-342	3.5	10
33	Antimicrobial, anti-inflammatory, antiparasitic, and cytotoxic activities of <i>Laennecia confusa</i> . <i>Scientific World Journal, The</i> , <b>2012</b> , 2012, 263572	2.2	9

32	Evaluation of Current Therapies for COVID-19 Treatment. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	9
31	Use of amantadine as substrate for SSAT-1 activity as a reliable clinical diagnostic assay for breast and lung cancer. <i>Future Science OA</i> , <b>2019</b> , 5, FSO365	2.7	8
30	Effect of inflammatory bowel disease therapies on immunogenicity of Mycobacterium paratuberculosis proteins. <i>Scandinavian Journal of Gastroenterology</i> , <b>2014</b> , 49, 157-63	2.4	8
29	Anti-leishmanial, anti-inflammatory and antimicrobial activities of phenolic derivatives from Tibouchina paratropica. <i>Phytotherapy Research</i> , <b>2015</b> , 29, 393-7	6.7	8
28	Chemical Composition, Antimicrobial and Antioxidant Properties of the Volatile Oil and Methanol Extract of Xenophyllum Poposum. <i>Natural Product Communications</i> , <b>2012</b> , 7, 1934578X1200701	0.9	7
27	Phytotoxic activities of (2R)-6-hydroxytremetone. <i>Plant Physiology and Biochemistry</i> , <b>2011</b> , 49, 671-5	5.4	7
26	Protein Kinase G Induces an Immune Response in Cows Exposed to Subsp.. <i>BioMed Research International</i> , <b>2018</b> , 2018, 1450828	3	7
25	Antibacterial and Cytotoxic Activities of the Sesquiterpene Lactones Cnicin and Onopordopicrin. <i>Natural Product Communications</i> , <b>2011</b> , 6, 1934578X1100600	0.9	6
24	Novel polysaccharide-protein-based amphipathic formulations. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 34-8	5.7	6
23	Presence of Infection by subsp. in the Blood of Patients with Crohn's Disease and Control Subjects Shown by Multiple Laboratory Culture and Antibody Methods. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	6
22	Natural Antispasmodics: Source, Stereochemical Configuration, and Biological Activity. <i>BioMed Research International</i> , <b>2018</b> , 2018, 3819714	3	5
21	Subspecies Infects and Replicates within Human Monocyte-Derived Dendritic Cells. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	4
20	Immunogenicity of PtpA secreted during Mycobacterium avium ssp. paratuberculosis infection in cattle. <i>Veterinary Immunology and Immunopathology</i> , <b>2018</b> , 198, 1-5	2	4
19	Immunoreactivity of protein tyrosine phosphatase A (PtpA) in sera from sheep infected with Mycobacterium avium subspecies paratuberculosis. <i>Veterinary Immunology and Immunopathology</i> , <b>2014</b> , 160, 129-32	2	4
18	Antibacterial effect of cerium oxide nanoparticle against Pseudomonas aeruginosa. <i>BMC Biotechnology</i> , <b>2021</b> , 21, 68	3.5	4
17	Targeting Intracellular Mycobacteria Using Nanosized Niosomes Loaded with Antibacterial Agents. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
16	A unique polypeptide from the C-terminus of the exocellular esterase of Acinetobacter venetianus RAG-1 modulates the emulsifying activity of the polymeric bioemulsifier apoemulsan. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 177-83	5.7	3
15	Rapid microwave-based method for the preparation of antimicrobial lignin-capped silver nanoparticles active against multidrug-resistant bacteria. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 596, 120299	6.5	3

14	Antimicrobial and anti-inflammatory activities of commercial aromatizing fragrances. <i>Future Science OA</i> , <b>2021</b> , 7, FSO704	2.7	3
13	Development of Coronavirus Treatments Using Neutralizing Antibodies. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	3
12	A new diterpene and bioactivities of labdanes isolated from. <i>Natural Product Research</i> , <b>2020</b> , 1-8	2.3	2
11	Predictive value and clinical significance of increased SSAT-1 activity in healthy adults. <i>Future Science OA</i> , <b>2019</b> , 5, FSO400	2.7	2
10	Novel Cell Preservation Technique to Extend Bovine In Vitro White Blood Cell Viability. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140046	3.7	2
9	Impact of the Persistence of Three Essential Oils with Antifungal Activities on Stored Wheat Grains, Flour, and Baked Products. <i>Foods</i> , <b>2021</b> , 10,	4.9	2
8	Bioactivities of Flavonoids from. <i>BioMed Research International</i> , <b>2019</b> , 2019, 3286489	3	1
7	Development of Novel Single-Chain Antibodies against the Hydrophobic HPV-16 E5 Protein. <i>BioMed Research International</i> , <b>2018</b> , 2018, 5809028	3	1
6	Antifeedant and Phagostimulant Activity of Extracts and Pure Compounds from <i>Hymenoxys robusta</i> on <i>Spodoptera exigua</i> (Lepidoptera: Noctuidae) Larvae. <i>Natural Product Communications</i> , <b>2014</b> , 9, 1934578X1400900	0.9	1
5	Proteomic analysis of an <i>Enterococcus faecalis</i> mutant generated against the exposure to silver nanoparticles. <i>Journal of Applied Microbiology</i> , <b>2021</b> ,	4.7	1
4	Antimycobacterial, cytotoxic, and anti-inflammatory activities of <i>Artemisia ludoviciana</i> .. <i>Journal of Ethnopharmacology</i> , <b>2022</b> , 115249	5	0
3	Cytotoxicology of Nanocomposites <b>2015</b> , 273-302		
2	A Facile and Efficient Four-Step Enantioselective Synthesis of (+)-Vernolepin from (+)-Minimolide, the Major Germacranolide of <i>Mikania minima</i> . <i>Natural Product Communications</i> , <b>2011</b> , 6, 1934578X1100600	0.9	
1	Treatment of COVID-19 with convalescent plasma- Author's reply. <i>Clinical Microbiology and Infection</i> , <b>2021</b> , 27, 639-640	9.5	