



Curriculum Vitae

José António Baptista Machado Soares

My overarching research interest is: how do microbial biofilms work?

This multivariate aggregation of microbial cells so-called “biofilm” exists in any type of environment, host, and industry. I try to understand how this microbial community interacts between them and their surroundings through a combination of molecular methodologies (PCR, qPCR, next-generation sequencing, fluorescence microscopy or CLSM, electron microscopy, and transcriptome analysis).

More specifically I am interested in examining the direct and intimate relationship between the activity of the biological community, the impact of their interactions, and how the biofilm reacts to the human host, industrial settings, and environmental surroundings.

Identificação

Identificação pessoal

Nome completo

José António Baptista Machado Soares

Género

Masculino

Data de nascimento

1983/06/18

Nomes de citação

Soares, José

António Machado

Antonio Machado

Identificadores de autor

Ciência ID

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Researcher Id

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Websites

<https://www.usfq.edu.ec/en/profiles/antonio-machado> (Académico)
[linkedin.com/in/ant3nio-machado-171a9712b](https://www.linkedin.com/in/ant3nio-machado-171a9712b/) (Rede social)
<https://fct.uac.pt/docentes/jose-antonio-baptista-machado-soares/> (Académico)
<https://orcid.org/0000-0002-5089-8723> (Profissional)

Domínios de atuação

Ciências Naturais - Ciências Biológicas - Microbiologia

Idiomas

Idioma	Conversação	Leitura	Escrita	Compreensão	Peer-review
Português (Idioma materno)					
Espanhol; Castelhano	Utilizador proficiente (C2)	Utilizador proficiente (C2)	Utilizador proficiente (C2)	Utilizador proficiente (C2)	Utilizador proficiente (C2)
Inglês	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)

Formação

	Grau	Classificação
2013/12/13 Concluído	Engenharia Biomédica (Doutoramento) Especialização em Microbiologia Universidade do Minho, Portugal <i>"The role of Gardnerella vaginalis biofilms in Bacterial vaginosis" (TESE/DISSERTAÇÃO)</i>	Aprovado
2007/09/10 - 2009/01/23 Concluído	Toxicologia Analítica Clínica e Forense (Mestrado integrado) Universidade do Porto Faculdade de Farmácia, Portugal <i>"Estudo in silico da relação estrutura-actividade de piperazinas nos receptores 5-HT1A e 5-HT2A" (TESE/DISSERTAÇÃO)</i>	Muito bom

2001/09/24 - 2006/09/23 Concluído	Bioquímica (Licenciatura) Especialização em Bioquímica clínica	Bom
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Universidade de Évora, Portugal

""Efeito da memória celular induzida pela tolbutamida na secreção de insulina de ilhéus Langerhans de animais normais e diabéticos"" (TESE/DISSERTAÇÃO)

Percurso profissional

Docência no Ensino Superior

	Categoria Profissional Instituição de acolhimento	Empregador
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2024/09/09 - Atual	Professor Auxiliar (Docente Universitário) Universidade dos Açores Departamento de Biologia, Portugal (...)	Universidade dos Açores, Portugal
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2024/08/30 - Atual	Professor Associado Convidado (Docente Universitário) Universidad San Francisco de Quito Colegio de Ciencias Biológicas y Ambientales, Equador	Universidad San Francisco de Quito, Equador
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2015/01/01 - 2024/08/29	Professor Associado (Docente Universitário) Universidad San Francisco de Quito Colegio de Ciencias Biológicas y Ambientales, Equador	Universidad San Francisco de Quito, Equador
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2007/09/10 - 2010/05/31	Assistente (Docente Ensino Superior Politécnico)	Escola Superior de Enfermagem da Cruz Vermelha Portuguesa de Oliveira de Azeméis, Portugal
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Outros

	Categoria Profissional Instituição de acolhimento	Empregador
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2007/03/01 - 2007/08/31	Estágio no Serviço de Patologia Clínica	Hospital São Miguel, Portugal
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Projetos

Bolsa

	Designação	Financiadores
2026/01/19 - 2026/12/30	Evaluation of synergistic interactions between Melipona honeys and antibiotics against multidrug-resistant pathogens Project ID: 42998 Co-Investigador Responsável (Co-IR) Universidad San Francisco de Quito, Ecuador Universidade dos Açores, Portugal	Universidad San Francisco de Quito, Ecuador Em curso
2024/04 - 2025/03	Identification of compounds with antimicrobial activity against bacterial pathogens for shrimp industry Poli Grants 2024 with the reference 24350	Universidad San Francisco de Quito, Ecuador
2023/12 - 2024/12	Preparation and Characterization of Bacteriophage Cocktail to treat Vibrio-related Biofilms COCIBA Grants 2024 with the reference 20173	Universidad San Francisco de Quito, Ecuador
2023/12 - 2024/11	Evaluation of antibiotic resistance genes (ARGs) from multidrug-resistant (MDR) E. coli in environmental biofilms: An environmental biomarker for One Health Approach Collaboration Grants 2024 with the reference 23179	Universidad San Francisco de Quito, Ecuador
2021/08 - 2022/07	Systematic analysis of pathogens and antimicrobial resistance in irrigation water systems in peri-urban communities of Quito, Ecuador Chancellor Grants 2022 with the reference 17637	Universidad San Francisco de Quito, Ecuador
2021/03 - 2022/02	The antibiofilm potential of lactobacilli biosurfactants against multidrug-resistant pathogens Collaboration Grants 2021 with the reference 17578	Universidad San Francisco de Quito, Ecuador

2020/12 - 2021/11	Alternative approaches for eliminating Biofilms Chancellor Grants 2021 with the reference 17357	Universidad San Francisco de Quito, Ecuador
2018/12 - 2019/11	Characterization of single and mixed Biofilms Chancellor Grants 2019 with the reference 16801	Universidad San Francisco de Quito, Ecuador
2016/12 - 2017/11	Initial adhesion and antimicrobe resistance of Candida sp. from human microbiota Chancellor Grants 2017 with the reference 12260	Universidad San Francisco de Quito, Ecuador
2016/03 - 2017/02	Characterization of the vaginal microbiota and risk factors in Ecuadorian women Chancellor Grants 2016 with the reference 5456	Universidad San Francisco de Quito, Ecuador
2016/02 - 2017/01	Characterization and quantification of microbial pathogens in the natural water resources of Ecuador Chancellor Grants 2015 with the reference 1106	Universidad San Francisco de Quito, Ecuador
2015/03 - 2016/02	Epidemiology of Helicobacter pylori in Ecuador and its relation to gastric cancer Collaboration Grants 2014 with the reference 0997	Universidad San Francisco de Quito, Ecuador

Projeto

	Designação	Financiadores
2025/12/01 - 2028/11/30	Thermal Health: The Secrets of Volcanic Waters ACORES2030-FEDER-01902800	Governo dos Açores, Portugal
	Investigador Fundação Gaspar Frutuoso, Portugal	Em curso

2025/12 - 2028/11

Thermal Health: The Secrets of Volcanic Waters

ACORES2030-FEDER-01902800

Governo dos Açores,
Portugal

2009/12 - 2013/11

The role of Gardnerella vaginalis biofilms in Bacterial Vaginosis

Grant SFRH/BD/62375/2009 entitled "The role of Gardnerella vaginalis biofilms in Bacterial Vaginosis"

Fundação para a
Ciência e a
Tecnologia,
Portugal2007/09/25 -
2009/09/05

Maternal variability of cardiac heart rate in normal and preeclamptic pregnancies

SFRH/BD/25167/2005

Assistente de investigação

Universidade do Porto Faculdade de Farmácia, Portugal

Fundação para a
Ciência e a
Tecnologia,
Portugal

Concluído

Produções

Publicações

- Artigo em revista
- 1 López, Lázaro; Cangui, Pamela; Guilcazo, Denyss; Machado, Antonio; Blount, Zachary D.; Trueba, Gabriel. Autor correspondente: López, Lázaro. "Fitness costs and persistence of plasmid-mediated cephalosporin resistance in Escherichia coli: an integrative review". *Frontiers in Microbiology* 17 (2026): <https://doi.org/10.3389/fmicb.2026.1783087>.
10.3389/fmicb.2026.1783087
 - 2 Vizuite, K.; Cabascango, D.; Iza-García, T.; António Machado; Pilaquinga, F.; Fernandez, L.; Espinoza, P.; Debut, A. Autor correspondente: Debut, A. "Silver Nanoparticles as Antimicrobials: A comparative analysis of green and traditional chemistry synthesis methods". *PLOS ONE* (2026): <https://doi.org/10.1371/journal.pone.0345520>.
Publicado · Acesso aberto
 - 3 Karla Vizuite; Sana Shamim; Dayanna Gabriela Cabascango; Tamia Xaymara Iza García; António Machado; Fernanda Pilaquinga; Lenys Fernandez; Patricio J. Espinoza-Montero; Alexis Debut. "Silver nanoparticles as antimicrobials: A comparative analysis of green and traditional chemistry synthesis methods". *PLOS One* (2026): <https://doi.org/10.1371/journal.pone.0345520>.
10.1371/journal.pone.0345520
 - 4 Vela-Chauvin, María Gabriela; Ramirez-Villacis, Darío X.; Armijos, Carolina E.; Narvaez, Michael; Quelal-Madrid, Francisco; Bustamante, Gabriela; Torres-Sobrevilla, Carla; et al. "Characterization and evaluation of a phage cocktail targeting Salmonella enterica in a Turkey farm". *BMC Microbiology* (2026): <https://doi.org/10.1186/s12866-026-04849-4>.
Publicado · 10.1186/s12866-026-04849-4
 - 5 Emílio Gomes; Tomás Gonçalves Mesquita; Patrícia Serra; Daniela Araújo; Carina Almeida; António Machado; Ricardo Oliveira; Joana Castro. "Antimicrobial Resistance in the Food Chain: Bridging Knowledge Gaps for Effective Detection and Control". *Antibiotics* (2026): <https://doi.org/10.3389/antib.2026.1000000>.

[3390/antibiotics15030262](https://doi.org/10.3390/antibiotics15030262).

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- 6 Cangui-Panchi, Sandra Pamela; Cangui-Panchi, Danny Santiago; Palacios, Verónica E.; Becerra, Erika; Santamaría, Ana L.; Muñoz, Diana; Reyes-Chacón, Jorge; Machado, António; Garzon-Chavez, Daniel. "Integrated Phenotypic, Proteomic (MALDI-TOF MS), and Genomic (WGS) Investigation of a Prolonged Hospital Outbreak of *Pseudomonas aeruginosa* with High Biofilm-Forming Capacity". *Antibiotics* 15 3 (2026): 257. <https://doi.org/10.3390/antibiotics15030257>.

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- 7 Nolivos-Rodriguez, Karla; Dario F. Cueva; Nicolas Jara-Medina; Danilo Endara; Marcia Feijoo; Domenica Vargas; Eduardo Tejera; et al. Autor correspondente: Antonio Machado. "Phage-Driven Disruption of *Vibrio* Biofilms: Insights into Predation Dynamics and Resistance". (2026):

Submetido

- 8 Arleth Gualle; Lourdes Orejuela-Escobar; Aguilera-Pesantes, Daniel; Diana Celi; Nolivos-Rodriguez, Karla; Nelson Miranda-Moncayo; Rebeca Cortez-Zambrano; Eduardo Tejera; Antonio Machado. Autor correspondente: Lourdes Orejuela-Escobar. "Antioxidant activity, antimicrobial properties, and chemical composition screening of 31 plants against *Vibrio* and *Pseudomonas* in the Ecuadorian shrimp industry - towards sustainable aquaculture and bioeconomy". (2026):

Em revisão

- 9 Nolivos-Rodriguez, Karla; Nicolas Jara-Medina; Arleth Gualle; Lourdes Orejuela-Escobar; Marcia Feijoo; Domenica Vargas; Aguilera-Pesantes, Daniel; Luís D. R. Melo; Antonio Machado. Autor correspondente: Antonio Machado. "Enhanced biofilm disruption of *Vibrio* spp. through combined phage therapy: A sustainable approach. (in writing process)". (2026):

- 10 Nolivos-Rodriguez, Karla; Lourdes Orejuela-Escobar; Aguilera-Pesantes, Daniel; Luís D. R. Melo; Antonio Machado. Autor correspondente: Antonio Machado. "Biofilm-focused control strategies for managing *Vibrio* pathogens in shrimp aquaculture. (in writing process)". (2026):

Submetido

- 11 Cangui-Panchi, Sandra Pamela; Villavicencio-Pilacuan, Diego Andres; Rojas-Silva, Patricio; Alvarez-Barreto, Jose F.; Lagos, Andres S.; Mora, Jose R.; Tejera, Eduardo; et al. "Cell-Free but potent: Antimicrobial potential of *Lactobacillus* supernatants against multidrug-resistant pathogens". *Plos One* (2026): <https://publons.com/wos-op/publon/86905468/>.

10.1371/JOURNAL.PONE.0356730

- 12 Machado, António; Foschi, Claudio; Liao, Qiping; Xiao, Bingbing; Marangoni, Antonella. Autor correspondente: Machado, António. "Editorial: Advances in vaginal microbiome and metabolite research: genetics, evolution, and clinical perspectives". *Frontiers in Cellular and Infection Microbiology* 15 (2025): <https://doi.org/10.3389/fcimb.2025.1755233>.

10.3389/fcimb.2025.1755233

- 13 Espinoza-Erazo, Vanessa P.; Vela-Chauvin, Maria Gabriela; Collantes-Vela, Juan Carlos; Zapata-Mena, Sonia; Machado, António. Autor correspondente: Machado, António. "Biofilms of *Salmonella*: Implications for Food Safety and Public Health". *Foodborne Pathogens and Disease* (2025): <https://doi.org/10.1177/15353141251389597>.

10.1177/15353141251389597

- 14 Villacrés, Micaela; Avila, Alec; Jimenes-Vargas, Karina; Machado, António; Alvarez-Suarez, José M.; Tejera, Eduardo. "Discovering molecules and plants with potential activity against gastric cancer: an in silico ensemble-based modeling analysis". *Frontiers in Bioinformatics* 5 1642039 (2025): 1-13. <https://doi.org/10.3389/fbinf.2025.1642039>.
Publicado · Acesso aberto · 10.3389/fbinf.2025.1642039
- 15 Nicolás Renato Jara-Medina; Ariana Cecibel Cedeño-Pinargote; Andrea Beltrán-Noboa; Eduardo Tejera; António Machado. "Managing *Vibrio parahaemolyticus* and *Vibrio alginolyticus* Infections in the Whiteleg Shrimp (*Penaeus vannamei*): A Systematic Review". *Molecules* (2025): <https://doi.org/10.3390/molecules30173620>.
10.3390/molecules30173620
- 16 Ariana Cecibel Cedeño-Pinargote; Nicolás Renato Jara-Medina; Carlos C. Pineda-Cabrera; Darío F. Cueva; María P. Erazo-Garcia; Eduardo Tejera; António Machado. "Impact of Biofilm Formation by Vaginal *Candida albicans* and *Candida glabrata* Isolates and Their Antifungal Resistance: A Comprehensive Study in Ecuadorian Women". *Journal of Fungi* (2025): <https://doi.org/10.3390/jof11090620>.
10.3390/jof11090620
- 17 Diana Celi; Karina Jimenes-Vargas; António Machado; José Miguel Álvarez-Suárez; Eduardo Tejera. "Chemical Composition and Biological Activities of *Pelargonium* sp.: A Review with In Silico Insights into Potential Anti-Inflammatory Mechanism". *Molecules* (2025): <https://doi.org/10.3390/molecules30153198>.
10.3390/molecules30153198
- 18 Vela-Chauvin, María Gabriela; António Machado; Zapata-Mena, Sonia. Autor correspondente: António Machado. "Unraveling *Salmonella enterica* Phage Interactions: From Receptors to Resistance and Food-Based Applications". *PHAGE* 0 0 (2025): 1-23. <https://doi.org/10.1089/phage.2024.0032>.
Publicado · 10.1089/phage.2024.0032
- 19 António Machado; Duarte Toubarro; José Baptista; Eduardo Tejera; José M. Álvarez-Suárez. "Selected honey as a multifaceted antimicrobial agent: review of compounds, mechanisms, and research challenges". *Future Microbiology* (2025): <https://doi.org/10.1080/17460913.2025.2498233>.
10.1080/17460913.2025.2498233
- 20 Martínez-Játiva, Milena Naomi; Borja-Serrano, Pamela; Valdebenito, Hugo; António Machado. "Pilot study on seasonal variability in microbial contamination in the developing tourist region of Mindo, Ecuador: a comparative analysis of the Saguambi, Mindo, and Canchupí Rivers". *BMC Research Notes* 18 1 (2025): <https://doi.org/10.1186/s13104-025-07205-3>.
Publicado · 10.1186/s13104-025-07205-3
- 21 Machado, António; Foschi, Claudio; Marangoni, Antonella. "Editorial: Vaginal dysbiosis and biofilms, volume II". *Frontiers in Cellular and Infection Microbiology* 15 (2025): <https://doi.org/10.3389/fcimb.2025.1588434>.
Publicado · 10.3389/fcimb.2025.1588434
- 22 Johana Zúñiga-Miranda; Rebeca González-Pastor; Saskya E. Carrera-Pacheco; Cristina Rodríguez-Pólit; Carlos Barba-Ostria; António Machado; Linda P. Guamán; Christian D. Alcivar-León; Jorge Heredia-Moya. Autor correspondente: Jorge Heredia-Moya. "Experimental and computational studies of Schiff bases derived from 4-aminoantipyrine as potential antibacterial and anticancer agents". *Discover Applied Sciences* 7 115 (2025): 1-19. <https://doi.org/10.1007/s42452-025-06459-7>.
Publicado · Acesso aberto · 10.1007/s42452-025-06459-7

- 23 Luis F. Chimbo-Gándara; Genoveva Granda-Albuja; José R. Mora; Erika Llumiquinga; Melany Ruiz-Uriguen; António Machado; Diego F. Cisneros-Heredia; et al. "Nutritional, functional, and safety characterization of the edible larva of the South American palm weevil (chontacuro) *Rhynchophorus palmarum* L. from Amazonian Ecuador". *Journal of Food Composition and Analysis* (2024): <http://dx.doi.org/10.1016/j.jfca.2024.106507>.
10.1016/j.jfca.2024.106507
- 24 Nicolás Renato Jara-Medina; Dario Fernando Cueva; Ariana Cecibel Cedeño-Pinargote; Arleth Gualle; Daniel Aguilera-Pesantes; Miguel Méndez; Lourdes M. Orejuela-Escobar; et al. "Eco-alternative treatments for *Vibrio parahaemolyticus* and *V. cholerae* biofilms from shrimp industry through Eucalyptus (*Eucalyptus globulus*) and Guava (*Psidium guajava*) extracts: A road for an Ecuadorian sustainable economy". *PLOS ONE* (2024): <http://dx.doi.org/10.1371/journal.pone.0304126>.
10.1371/journal.pone.0304126
- 25 Celi D, Quiroz E, Beltrán-Noboa A, Machado A, Tejera E, Fernandez-Soto P (2024) A chemical analysis of the *Pelargonium* s. "A chemical analysis of the *Pelargonium* species: *P. odoratissimum*, *P. graveolens*, and *P. zonale* identifies secondary metabolites with activity against gram-positive bacteria with multidrug-resistance". *PLoS ONE* 19 7 (2024): e0306637. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0306637>.
Publicado · Acesso aberto · 10.1371/journal.pone.0306637
- 26 Fausto Cabezas-Mera; Ariana C. Cedeño-Pinargote; Eduardo Tejera; José M. Álvarez-Suarez; António Machado. "Antimicrobial activity of stingless bee honey (Tribe: Meliponini) on clinical and foodborne pathogens: A systematic review and meta-analysis". *Food Frontiers* (2024): <https://doi.org/10.1002/fft2.386>.
10.1002/fft2.386
- 27 Karla Miño; Antonela Pérez; Tamia Xaymara Iza-García; Dayanna Gabriela Cabascango; Catalina Gordillo; Andrea Gordillo; Nelson Vispo; et al. "Antimicrobial cellulose hydrogels against gram-positive and gram-negative bacteria". *Frontiers in Soft Matter* (2024): <http://dx.doi.org/10.3389/frsfm.2024.1362677>.
10.3389/frsfm.2024.1362677
- 28 António Machado; Lizbeth Zamora-Mendoza; Frank Alexis; José Miguel Álvarez-Suarez. "Use of Plant Extracts, Bee-Derived Products, and Probiotic-Related Applications to Fight Multidrug-Resistant Pathogens in the Post-Antibiotic Era". *Future Pharmacology* (2023): <https://doi.org/10.3390/futurepharmacol3030034>.
10.3390/futurepharmacol3030034
- 29 Fausto Sebastián Cabezas-Mera; María Belén Atiencia-Carrera; Irina Villacres-Granda; Adrián Alexander Proaño Artieda; Alexis Debut; Karla Vizuite; Lorena Herrero-Bayo; et al. "Evaluation of the polyphenolic profile of native Ecuadorian stingless bee honeys (Tribe: Meliponini) and their antibiofilm activity on susceptible and multidrug-resistant pathogens: An exploratory analysis". *Current Research in Food Science* 7 (2023): 100543-100543. <http://dx.doi.org/10.1016/j.crfs.2023.100543>.
10.1016/j.crfs.2023.100543
- 30 Lizbeth Zamora-Mendoza; Santiago Nelson Vispo; Lola De Lima; José R. Mora; António Machado; Frank Alexis. "Hydrogel for the Controlled Delivery of Bioactive Components from Extracts of *Eupatorium glutinosum* Lam. Leaves". *Molecules* (2023): <https://doi.org/10.3390/molecules28041591>.
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- 31 Paulina Fernandez-Soto; Diana Celi; Eduardo Tejera; José Miguel Alvarez-Suarez; Antônio Machado. "Cinnamomum sp. and Pelargonium odoratissimum as the Main Contributors to the Antibacterial Activity of the Medicinal Drink Horchata: A Study Based on the Antibacterial and Chemical Analysis of 21 Plants". *Molecules* (2023): <https://doi.org/10.3390/molecules28020693>.
10.3390/molecules28020693
- 32 Sandra Pamela Cangui-Panchi; Anahí Lizbeth Ñacato-Toapanta; Leonardo Joshué Enríquez-Martínez; Gabriela Alexandra Salinas-Delgado; Jorge Reyes; Daniel Garzon-Chavez; Antônio Machado. "Battle royale: Immune response on biofilms – host-pathogen interactions". *Current Research in Immunology* (2023): <https://doi.org/10.1016/j.crimmu.2023.100057>.
10.1016/j.crimmu.2023.100057
- 33 Lizbeth Zamora-Mendoza; Esteban Guamba; Karla Miño; Maria Paula Romero; Anghy Levoyer; José F. Alvarez-Barreto; Antônio Machado; Frank Alexis. "Antimicrobial Properties of Plant Fibers". *Molecules* (2022): <https://doi.org/10.3390/molecules27227999>.
10.3390/molecules27227999
- 34 María Belén Atiencia-Carrera; Fausto Sebastián Cabezas-Mera; Karla Vizuite; Alexis Debut; Puente, Eduardo; Antônio Machado. Autor correspondente: Antônio Machado. "Evaluation of the biofilm life cycle between *Candida albicans* and *Candida tropicalis*". *Frontiers in Cellular and Infection Microbiology* 12 (2022): <http://dx.doi.org/10.3389/fcimb.2022.953168>.
10.3389/fcimb.2022.953168
- 35 Antônio Machado. "Editorial: Vaginal dysbiosis and biofilms". *Frontiers in Cellular and Infection Microbiology* 12 (2022): <http://dx.doi.org/10.3389/fcimb.2022.976057>.
10.3389/fcimb.2022.976057
- 36 Robert Josue Rodríguez-Arias; Bryan Omar Guachi-Álvarez; Dominique Esther Montalvo-Vivero; Antônio Machado. "Lactobacilli displacement and *Candida albicans* inhibition on initial adhesion assays: a probiotic analysis". *BMC Research Notes* 15 239 (2022): 1-7. <https://doi.org/10.1186/s13104-022-06114-z>.
Publicado · <https://doi.org/10.1186/s13104-022-06114-z>
- 37 Antônio Machado. "Clustering Analysis of the Multi-Microbial Consortium by *Lactobacillus* Species Against Vaginal Dysbiosis Among Ecuadorian Women". *Frontiers in Cellular and Infection Microbiology* 12 (2022): <http://dx.doi.org/10.3389/fcimb.2022.863208>.
10.3389/fcimb.2022.863208
- 38 María Belén Atiencia-Carrera; Surasak Saokaew; Fausto Sebastián Cabezas-Mera; Eduardo Tejera; Antônio Machado. "Prevalence of biofilms in *Candida* spp. bloodstream infections: A meta-analysis". *PLOS ONE* (2022): <https://doi.org/10.1371/journal.pone.0263522>.
10.1371/journal.pone.0263522
- 39 Sandra Pamela Cangui-Panchi; Anahí Lizbeth Ñacato-Toapanta; Leonardo Joshué Enríquez-Martínez; Jorge Reyes; Daniel Garzon-Chavez; Antônio Machado. "Biofilm-forming microorganisms causing hospital-acquired infections from intravenous catheter: A systematic review". *Current Research in Microbial Sciences* (2022): <https://doi.org/10.1016/j.crmicr.2022.100175>.
10.1016/j.crmicr.2022.100175
- 40 Antônio Machado. "Determining the microbial and chemical contamination in Ecuador's main rivers". *Scientific Reports* 11 1 (2021): <http://dx.doi.org/10.1038/s41598-021-96926-z>.
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- 41 Alison Muñoz-Barreno; Fausto Cabezas-Mera; Eduardo Tejera; António Machado. "Comparative Effectiveness of Treatments for Bacterial Vaginosis: A Network Meta-Analysis". *Antibiotics* (2021): <https://doi.org/10.3390/antibiotics10080978>.
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- 42 Salinas AM; Osorio VG; Pacha-Herrera D; Vivanco JS; Trueba AF; Machado A. "Vaginal microbiota evaluation and prevalence of key pathogens in ecuadorian women: an epidemiologic analysis.". *Scientific reports* (2020): <http://europepmc.org/abstract/med/33110095>.
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Propriedade Intelectual

Patente	1	Vieira, Maria João; Almeida, Carina; Azevedo, N. F.; Soares, José António Baptista Machado; Cerca, Nuno. 2012. "Sondas de ácido péptido nucleico, estojo e método para detectar espécies do género <i>Lactobacillus</i> spp. e/ou <i>Gardnerella</i> spp. e respectivas aplicações".
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Atividades

Arbitragem científica em conferência

	Nome da conferência	Local da conferência
2025/12/04 - 2025/12/06	Chair of Session 3 - Topic 1-Environmental Microbiology & Biotechnology, at the Congress of Microbiology and Biotechnology 2025	University of Azores – Island of São Miguel – Ponta Delgada – Azores, Portugal
2025/12/04 - 2025/12/06	Organizing Committee in the Congress of Microbiology and Biotechnology 2025	University of Azores – Island of São Miguel – Ponta Delgada – Azores, Portugal
2023/08/23 - 2023/08/25	Scientific Committee in the XXVI Latin American Congress of Microbiology - ALAM 2023	Centro de Convenciones Bicentenario, Quito, Ecuador
2018/07/24 - 2018/07/27	Principal Chair of the 2nd Congress of Molecular and Applied Microbiology of the USFQ.	Shakespeare Theater, USFQ, Cumbayá, Ecuador
2016/11/05 - 2016/11/06	Principal Chair of the 1st Congress of Molecular and Applied Microbiology of the USFQ.	Hotel Continental, Guayaquil, Ecuador

Arbitragem científica em revista

	Nome da revista (ISSN)	Editora
2022/11/29 - Atual	PLOS ONE (1932-6203)	Public Library of Science
2022/07/20 - Atual	Frontiers in Fungal Biology (2673-6128)	Frontiers Media SA
2025/01/05 - 2025/05/30	Frontiers in cellular and infection microbiology (2235-2988)	Frontiers Media SA
2023/11/01 - 2024/05/31	Antibiotics (2079-6382)	MDPI (Multidisciplinary Digital Publishing Institute)
2023/05/05 - 2024/01/31	Frontiers in Cellular and Infection Microbiology (2235-2988)	Frontiers Media SA
2021/06/06 - 2022/02/01	Frontiers in Cellular and Infection Microbiology (2235-2988)	Frontiers Media SA
2021/07/01 - 2021/12/31	Antibiotics (2079-6382)	MDPI (Multidisciplinary Digital Publishing Institute)

Curso / Disciplina lecionado

	Disciplina	Curso (Tipo)	Instituição / Organização
2007/09/10 - 2010/05/31	Regente da cadeira de Bioquímica e de Microbiologia da Licenciatura em Enfermagem	Bioquímica e Microbiologia (Curso Técnico Superior Profissional)	Escola Superior de Enfermagem da Cruz Vermelha Portuguesa de Oliveira de Azeméis, Portugal

Entrevista (jornal / revista)

	Descrição da atividade	Jornal/Forum
2026/04/04	Participation as Co-Leader PI Researcher of a Water Contamination Study and as an interviewed expert in El Universo regarding a USFQ research study warning about contamination risks in rivers of Pichincha. The interview addressed the detection of organic pollution, heavy metals, and pathogenic microorganisms in rivers such as Machángara and Monjas, and discussed potential public health implications and the need for monitoring and remediation strategies.	El Universo
2024/11/29	Entrevista/notícia no jornal Correio dos Açores sobre a minha atividade científica e docência na Faculdade de Ciências e Tecnologia da Universidade dos Açores, incluindo investigação em microbiologia, biofilmes e resistência antimicrobiana.	Correio dos Açores

2023/06/20	The Company of Biologists is a not-for-profit publishing organisation dedicated to supporting and inspiring the biological community. In the present collection show a serial of interviews on Latin American Microscopists, in this video it is: An interview with Jose Antonio Baptista Machado Soares about his research and career paths.	The Company of Biologists
2022/04/01	Participation as a researcher and subject-matter expert in an interview with the newspaper La Hora, addressing the issue of contamination of the rivers of Quito and its downstream environmental impact on the Ecuadorian coast and the Galápagos Islands. Scientific contribution focused on water pollution, transport of contaminants, and ecological implications for sensitive ecosystems.	La Hora
2021/11/10	Interview as a researcher and lead author explaining the methodology and findings of the study on river contamination in Ecuador, as featured in El Oriente. Provided scientific insights into the design, sampling, analysis, and environmental implications of the contamination study, highlighting the significance of water quality research for environmental management.	El Oriente
2020/08/29	Interview and feature in El Comercio as a research scientist discussing the investigation of river contamination in Pichincha, with a focus on the presence of metal contaminants. Provided expert insights into the research objectives, analytical methods, key findings, and the environmental and public health implications of metal pollution in river systems.	El Comercio

Distinções

Prémio

2021	Winner of iPoster Prizes at the World Microbe Forum, sponsored by the FEMS Journals Federation Of European Microbiological Societies, Reino Unido
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Outra distinção

2025	Vocero USFQ 2025 Universidad San Francisco de Quito, Ecuador
2018	Ambassador of the American Society for Microbiology (ASM) in Ecuador American Society for Microbiology, Estados Unidos