LUIS PEDRO COELHO Curriculum Vitæ

28 Feb 2025

Centre for Microbiome Research Queensland University of Technology

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Erdös-Bacon Nr.: 7

Citizenship: U.K., Portugal, and Luxembourg

Education

2011 PhD in computational biology, Carnegie Mellon University

Dissertation topic: *Modeling the Space of Subcellular Location Patterns Using Images and Other Sources of Information*, advised by Prof. Robert F. Murphy.

2006 MSc in computer science, Instituto Superior Técnico (Technical University Lisbon)

Dissertation topic: Bayesian Network Parameter Estimation Using Noisy Observations or Soft Evidence, advised by Prof. Arlindo Oliveira.

2004 BSc in computer science, Instituto Superior Técnico (Technical University Lisbon) Graduated top of my class.

Professional experience

2023-present Associate Professor (Queensland University of Technology)

2018-2023 Junior Principal Investigator (Fudan University)

2013-2018 Postdoctoral researcher at European Molecular Biology Laboratory (EMBL), Bork Lab

2012 Postdoctoral researcher at Instituto de Medicina Molecular (Lisbon), Mhlanga Lab

Scholarships & awards

- 2024 QUT Faculty of Health Researcher of the Year
- 2023 ARC Future Fellowship
- 2022-present Highly Cited Researcher (Cross-field category)
- 2021 Zhicheng Teaching Award (first prize)
- 2012 Siebel Scholar

Awarded annually for academic excellence and demonstrated leadership to 85 top students from the world's leading graduate schools

- 2009 Joint CMU-U. of Pittsburgh PhD. in Computational Biology Research Excellence Award
- 2008 Joint CMU-U. of Pittsburgh PhD. in Computational Biology Academic Excellence Award
- 2006 Fulbright Fellow
- 2005 Scholarship from Portuguese Science Foundation
- 2001 Instituto Superior Técnico (IST) Academic Excellence Award

Highlighted publications

- 2024 *C.D. Santos-Júnior**, *M. D. Torres**, ..., *C. de la Fuente-Nunez†*, **L. P. Coelho**†Discovery of antimicrobial peptides in the global microbiome with machine learning *in* Cell [DOI]
- 2022 L. P. Coelho et al. Towards the biogeography of prokaryotic genes in NATURE [DOI]
- 2022 *S. Pan*, ..., **L. P. Coelho** A deep siamese neural network improves metagenome-assembled genomes in microbiome datasets across different environments in <u>Nature Communications</u> [DOI]
- **2015** *S. Sunagawa**, L. P. Coelho*, *S. Chaffron** *et al.*, Structure and Function of the Global Ocean Microbiome *in* Science [DOI]

Grants awarded (selected)

2022 Studying small proteins of the global microbiome using deep learning, Shanghai Municipal Science and Technology Commission (SMSTC)

2020 Establishing a Monitoring Baseline for Antibiotic Resistance in Key environments (EMBARK) International consortium to work on antimicrobial resistance, funded through JPI-AMR.

2019 Using deep learning to understand the microbiome, National Science Foundation of China

Service & outreach (selected)

2025-present Member of the Executive Committee for the Australian Bioinformatics And Computational Biology Society (ABACBS)

2021–2024 Member of the steering committee for mVIF (Microbiome Virtual International Forum)

2021-2023 Academic Editor for PLoS Computational Biology

2020-present Member of the ISCB (International Society for Computational Biology) Equity, Diversity and Inclusion (EDI) Committee

2016-2021 Associate Editor for the Journal of Open Research Software

2014-2017 Postdoc representative at EMBL

I helped organized the 2015 and 2017 EMBL Postdoc retreats.

2014-2015 Organized Software Carpentry Workshop at EMBL

2012-2013 Member of the Organization of the Lisbon Machine Learning School

2010 Local Committee for Portuguese-American Postgraduate Society National Forum

Teaching & mentoring (selected)

2019-2023 Co-taught Scientific Communication at Fudan University, a one-semester graduate course

2012-present Certified Software Carpentry Instructor

I have given lectures on Software Carpentry in Germany, Denmark, Cyprus, Jordan, and Spain.

2009 Programming for Scientists

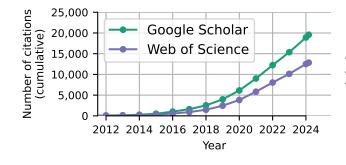
I designed and taught a semester-long course on computer programming for scientists at Carnegie Mellon University.

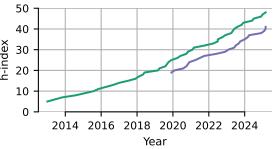
2008 Teaching Assistant for Laboratory Methods for Computational Biologists (CMU)

Bibliometric statistics

Total number of citations: 20,016 (Google Scholar); 12,334 (Web of Science)

h-index: 48 (Google Scholar); 41 (Web of Science)





Language skills

Native speaker of English and Portuguese; fluent in German and French; intermediate Luxembourgish.

Publications

Google scholar profile:

http://scholar.google.com/citations?user=qTYua0cAAAAJ

First or corresponding author

(includes co-first/co-corresponding author publications)

Preprints submitted for publication

1. Svetlana Ugarcina Perovic*, Vedanth Ramji*, Hui Chong, Yiqian Duan, Luis Pedro Coelho, argNorm: Normalization of antibiotic resistance gene annotations to the Antibiotic Resistance Ontology (ARO), in QUT EPRINTS, 2024 [DOI]

Peer-reviewed research publications

- 2. Yiqian Duan, Célio Dias Santos-Júnior, Thomas Sebastian Schmidt, Anthony Fullam, Breno L. S. de Almeida, Chengkai Zhu, Michael Kuhn, Xing-Ming Zhao†, Peer Bork, Luis Pedro Coelho†, A catalog of small proteins from the global microbiome, in NATURE COMMUNICATIONS, 2024 [DOI]
- 3. Célio Dias Santos-Júnior*, Marcelo D.T. Torres*, Yiqian Duan, Álvaro Rodríguez del Río, Thomas S.B. Schmidt, Hui Chong, Anthony Fullam, Michael Kuhn, Chengkai Zhu, Amy Houseman, Jelena Somborski, Anna Vines, Xing-Ming Zhao, Peer Bork, Jaime Huerta-Cepas, Cesar de la Fuente-Nunez†, Luis Pedro Coelho†, Discovery of antimicrobial peptides in the global microbiome with machine learning, in Cell, 2024 [DOI]
- 4. Marija Dmitrijeva, Janko Tackmann, João Frederico Matias Rodrigues, Jaime Huerta-Cepas, Luis Pedro Coelho†, Christian von Mering†, A global survey of prokaryotic genomes reveals the eco-evolutionary pressures driving horizontal gene transfer, in Nature Ecology & Evolution, 2024 [DOI]
- 5. Shaojun Pan, Xing-Ming Zhao⁺, Luis Pedro Coelho⁺, SemiBin2: self-supervised contrastive learning leads to better MAGs for short- and long-read sequencing, in Bioinformatics, 2023 [DOI]
- 6. Senying Lai, Shaojun Pan, Luis Pedro Coelho⁺, Wei-Hua Chen⁺, Xing-Ming Zhao⁺, metaMIC: reference-free Misassembly Identification and Correction of de novo metagenomic assemblies in Genome Biology 2022 [DOI]
- 7. Shaojun Pan, Chengkai Zhu, Xing-Ming Zhao⁺, and **Luis Pedro Coelho**⁺ A deep siamese neural network improves metagenome-assembled genomes in microbiome datasets across different environments in NATURE COMMUNICATIONS 2022 [DOI]
- 8. Luis Pedro Coelho, Renato Alves, Álvaro Rodríguez del Río, Pernille Neve Myers, Carlos P. Cantalapiedra, Joaquín Giner-Lamia, Thomas Sebastian Schmidt, Daniel R. Mende, Askarbek Orakov, Ivica Letunic, Falk Hildebrand, Thea Van Rossum, Sofia K. Forslund, Supriya Khedkar, Oleksandr M. Maistrenko, Shaojun Pan, Longhao Jia, Pamela Ferretti, Shinichi Sunagawa, Xing-Ming Zhao, Henrik Bjørn Nielsen, Jaime Huerta-Cepas⁺, and Peer Bork⁺, Towards the biogeography of prokaryotic genes in NATURE 2022 [DOI]
- 9. Célio Dias Santos-Junior, Shaojun Pan, Xing-Ming Zhao, Luis Pedro Coelho, MACREL: antimicrobial peptide screening in genomes and metagenomes in PeerJ 2020 [DOI]
- 10. Luis Pedro Coelho, Renato Alves, Paulo Monteiro, Jaime Huerta-Cepas, Ana Teresa Freitas, Peer Bork NG-meta-profiler: fast processing of metagenomes using NGLess, a domain-specific language in MICROBIOME vol. 7, 84, 2019 [DOI]
- Luis Pedro Coelho, Jens Kultima, Paul Costea, Coralie Fournier, Yuanlong Pan, Gail Czarnecki-Maulden, Matthew Hayward, Kristoffer Forslund, Patrick Descombes, Janet Jackson, Qinghong Li, and Peer Bork Similarity of the dog and human gut microbiomes in gene content and response to diet in МІСКОВІОМЕ, vol 6:72, 2018
 [DOI]

- 12. Luis Pedro Coelho, Jug: Software for parallel reproducible computation in Python in Journal of Open Research Software, 2017 [DOI]
- 13. Sebastien Colin*, **Luis Pedro Coelho***, Shinichi Sunagawa, Chris Bowler, Eric Karsenti, Peer Bork, Rainer Pepperkok, Colomban de Vargas, *Quantitative 3D-imaging for cell biology and ecology of environmental microbial eukaryotes* in ELIFE, vol. 6:e26066, 2017 [DOI]
- 14. Shinichi Sunagawa*, Luis Pedro Coelho*, Samuel Chaffron*, Jens Roat Kultima, Karine Labadie, Guillem Salazar, Bardya Djahanschiri, Georg Zeller, Daniel R. Mende, Adriana Alberti, Francisco M. Cornejo-Castillo, Paul I. Costea, Corinne Cruaud, Francesco d'Ovidio, Stefan Engelen, Isabel Ferrera, Josep M. Gasol, Lionel Guidi, Falk Hildebrand, Florian Kokoszka, Cyrille Lepoivre, Gipsi Lima-Mendez, Julie Poulain, Bonnie T. Poulos, Marta Royo-Llonch, Hugo Sarmento, Sara Vieira-Silva, Céline Dimier, Marc Picheral, Sarah Searson, Stefanie Kandels-Lewis, Tara Oceans coordinators, Chris Bowler, Colomban de Vargas, Gabriel Gorsky, Nigel Grimsley, Pascal Hingamp, Daniele Iudicone, Olivier Jaillon, Fabrice Not, Hiroyuki Ogata, Stephane Pesant, Sabrina Speich, Lars Stemmann, Matthew B. Sullivan, Jean Weissenbach, Patrick Wincker, Eric Karsenti, Jeroen Raes, Silvia G. Acinas, Peer Bork, Structure and Function of the Global Ocean Microbiome in Science 348 (6237), 1261359, 2015 [DOI]
- 15. Luis Pedro Coelho, Catarina Pato, Ana Friães, Ariane Neumann, Maren von Köckritz-Blickwede, Mário Ramirez, João André Carriço, Automatic determination of NET (neutrophil extracellular traps) coverage in fluorescent microscopy images in Bioinformatics 31 (14): 2364–2370, 2015 [DOI]
- 16. Luis Pedro Coelho, Joshua D. Kangas, Armaghan Naik, Elvira Osuna-Highley, Estelle Glory-Afshar, Margaret Fuhrman, Ramanuja Simha, Peter B. Berget, Jonathan W. Jarvik, and Robert F. Murphy, *Determining the subcellular location of new proteins from microscope images using local features* in BIOINFORMATICS, 2013 [DOI]
- 17. Luis Pedro Coelho Mahotas: Open source software for scriptable computer vision, Journal of Open Research Software, vol. 1, 2013 [DOI]
- 18. Luis Pedro Coelho*, Tao Peng*, and Robert F. Murphy, *Quantifying the distribution of probes between subcellular locations using unsupervised pattern unmixing* in Bioinformatics, vol. 26 (12), pp. i7–i12, 2010 [DOI]
- 19. Luis Pedro Coelho, Amr Ahmed, Andrew Arnold, Joshua Kangas, Abdul-Saboor Sheikh, Eric P. Xing, William W. Cohen, and Robert F. Murphy, *Structured Literature Image Finder: Extracting Information from Text and Images in Biomedical Literature* in Lecture Notes in Bioinformatics, vol. 6004, pp. 23–32, 2010 [DOI]
- 20. Luis Pedro Coelho, Aabid Shariff, and Robert F. Murphy; Nuclear segmentation in microscope cell images: A hand-segmented dataset and comparison of algorithms in PROCEEDINGS OF IEEE INTERNATIONAL SYMPOSIUM IN BIOMEDICAL IMAGING, 2009 [DOI]
- 21. Luis Pedro Coelho and Robert Murphy; *Identifying Subcellular Locations from Images of Unknown Resolution* in <u>BIOINFORMATICS RESEARCH AND DEVELOPMENT</u>, Communications in Computer and Information Science, vol. 13, pp. 235–242, 2008 [DOI]
- 22. Luis Pedro Coelho and Arlindo Oliveira; Dotted Suffix Trees: A Structure for Approximate Text Indexing in String Processing and Information Retrieval, Lecture Notes in Computer Science, vol. 4209, pp. 329–336, 2006 [DOI]

Comments and review articles

- 23. Luis Pedro Coelho, For long-term sustainable software in bioinformatics, in PLOS COMPUTATIONAL BIOLOGY, 2024 [DOI]
- 24. Luis Pedro Coelho, Célio Dias Santos-Júnior, Cesar de la Fuente-Nunez, *Challenges in computational discovery of bioactive peptides in 'omics data*, in <u>PROTEOMICS</u>, 2024 [DOI]
- 25. Luis Pedro Coelho Voices of the new generation: science in a state of benign confusion in Nature Reviews Molecular Cell Biology 2020 [DOI]

26. Luis Pedro Coelho, Estelle Glory-Afshar, Joshua Kangas, Shannon Quinn, Aabid Shariff, and Robert F. Murphy; *Principles of Bioimage Informatics: Focus on machine learning of cell patterns* in Linking Literature, Information, and Knowledge for Biology, Lecture Notes in Computer Science, vol. 6004, pp. 8–18, 2010 [DOI]

Co-authorships

Preprints submitted for publication

27. Lombard Fabien, Guidi Lionel, Manoela C. Brandão, Coelho Luis Pedro, Colin Sébastien, Dolan John Richard, Elineau Amanda, Josep M Gasol, Grondin Pierre Luc, Henry Nicolas, Federico M Ibarbalz, Jalabert Laëtitia, Loreau Michel, Martini Séverinne, Mériguet Zoé, Picheral Marc, Juan José Pierella Karlusich, Rainer Pepperkok, Romagnan Jean-Baptiste, Zinger Lucie, Stemmann Lars, Silvia G Acinas, Karp-Boss Lee, Boss Emmanuel, Matthew B. Sullivan, Colomban de Vargas, Bowler Chris, Karsenti Eric, Gorsky Gabriel, Tara Oceans Coordinators, *Ubiquity of inverted 'gelatinous' ecosystem pyramids in the global ocean*, in BioRxiv, 2024 [DOI]

Peer-reviewed research publications

- 28. Álvaro Rodríguez del Río, Joaquín Giner-Lamia, Carlos P. Cantalapiedra, Jorge Botas, Ziqi Deng, Ana Hernández-Plaza, Martí Munar-Palmer, Saray Santamaría-Hernando, José J. Rodríguez-Herva, Hans-Joachim Ruscheweyh, Lucas Paoli, Thomas S. B. Schmidt, Shinichi Sunagawa, Peer Bork, Emilia López-Solanilla, Luis Pedro Coelho, Jaime Huerta-Cepas Functional and evolutionary significance of unknown genes from uncultivated taxa in NATURE, 2023 [DOI]
- 29. Thomas S B Schmidt, Anthony Fullam, Pamela Ferretti, Askarbek Orakov, Oleksandr M Maistrenko, Hans-Joachim Ruscheweyh, Ivica Letunic, Yiqian Duan, Thea Van Rossum, Shinichi Sunagawa, Daniel R Mende, Robert D Finn, Michael Kuhn, Luis Pedro Coelho, Peer Bork, SPIRE: a Searchable, Planetary-scale mIcrobiome REsource, in Nucleic Acids Research, 2023 [DOI]
- 30. Rémi Gschwind, Svetlana Ugarcina Perovic, Marie Petitjean, Julie Lao, Luis Pedro Coelho, Etienne Ruppé ResFinderFG v2.0: a database of antibiotic resistance genes obtained by functional metagenomics in Nucleic Acid Research 2023 [DOI]
- 31. Hui Chong, Qingyang Yu, Yuguo Zha, Guangzhou Xiong, Nan Wang, Xinhe Huang, Shijuan Huang, Chuqing Sun, Sicheng Wu, Wei-Hua Chen, Luis Pedro Coelho, Kang Ning EXPERT: Transfer Learning-enabled context-aware microbial source tracking in BRIEFINGS IN BIOINFORMATICS 2022 [DOI]
- 32. Thomas SB Schmidt, Simone S Li, Oleksandr M Maistrenko, Wasiu Akkani, **Luis Pedro Coelho**, Sibasish Dolai, Anthony Fullam, Anna Glazek, Rajna Hercog, Hilde Herrema, Ferris Jung, Stefanie Kandels, Askarbek Orakov, Thea Van Rossum, Vladimir Benes, Thomas J Borody, Willem M de Vos, Cyriel Y Ponsioen, Max Nieuwdorp, Peer Bork *Drivers and Determinants of Strain Dynamics Following Faecal Microbiota Transplantation* in <a href="Mature-Nature
- 33. Sebastien Fromentin, Sofia K. Forslund, Kanta Chechi, Judith Aron-Wisnewsky, Rima Chakaroun, Trine Nielsen, Valentina Tremaroli, Boyang Ji, Edi Prifti, Antonis Myridakis, Julien Chilloux, Petros Andrikopoulos, Yong Fan, Michael T. Olanipekun, Renato Alves, Solia Adiouch, Noam Bar, Yeela Talmor-Barkan, Eugeni Belda, Robert Caesar, Luis Pedro Coelho, Gwen Falony, Soraya Fellahi, Pilar Galan, Nathalie Galleron, Gerard Helft, Lesley Hoyles, Richard Isnard, Emmanuelle Le Chatelier, Hanna Julienne, Lisa Olsson, Helle Krogh Pedersen, Nicolas Pons, Benoit Quinquis, Christine Rouault, Hugo Roume, Joe-Elie Salem, Thomas S. B. Schmidt, Sara Vieira-Silva, Peishun Li, Maria Zimmermann-Kogadeeva, Christian Lewinter, Nadja B. Søndertoft, Tue H. Hansen, Dominique Gauguier, Jens Peter Gøtze, Lars Køber, Ran Kornowski, Henrik Vestergaard, Torben Hansen, Jean-Daniel Zucker, Serge Hercberg, Ivica Letunic, Fredrik Bäckhed, Jean-Michel Oppert, Jens Nielsen, Jeroen Raes, Peer Bork, Michael Stumvoll, Eran Segal, Karine Clément†, Marc-Emmanuel Dumas†, S. Dusko Ehrlich†, and Oluf Pedersen†Microbiome and metabolome features of the cardiometabolic disease spectrum at NATURE MEDICINE 2022 [DOI]

- 34. Supriya Khedkar, Georgy Smyshlyaev, Ivica Letunic, Oleksandr M Maistrenko, Luis Pedro Coelho, Askarbek Orakov, Sofia K Forslund, Falk Hildebrand, Mechthild Luetge, Thomas S B Schmidt, Orsolya Barabas, and Peer Bork Landscape of mobile genetic elements and their antibiotic resistance cargo in prokaryotic genomes in Nucleic Acids Research 2022 [DOI]
- 35. Eugeni Belda*, Lise Voland*, Valentina Tremaroli*, Gwen Falony*, Solia Adriouch*, Karen E Assmann*, Edi Prifti, Judith Aron-Wisnewsky, Jean Debédat, Tiphaine Le Roy, Trine Nielsen, Chloé Amouyal, Sébastien André, Fabrizio Andreelli, Matthias Blüher, Rima Chakaroun, Julien Chilloux, Luis Pedro Coelho, Maria Carlota Dao, Promi Das, Soraya Fellahi, Sofia Forslund, Nathalie Galleron, Tue H Hansen, Bridget Holmes, Boyang Ji, Helle Krogh Pedersen, Phuong Le, Emmanuelle Le Chatelier, Christian Lewinter, Louise Mannerås-Holm, Florian Marquet, Antonis Myridakis, Veronique Pelloux, Nicolas Pons, Benoit Quinquis, Christine Rouault, Hugo Roume, Joe-Elie Salem, Nataliya Sokolovska, Nadja B Søndertoft, Sothea Touch, Sara Vieira-Silva, The MetaCardis Consortium, Pilar Galan, Jens Holst, Jens Peter Gøtze, Lars Køber, Henrik Vestergaard, Torben Hansen, Serge Hercberg, Jean-Michel Oppert, Jens Nielsen, Ivica Letunic, Marc-Emmanuel Dumas, Michael Stumvoll, Oluf Borbye Pedersen, Peer Bork, Stanislav Dusko Ehrlich, Jean-Daniel Zucker, Fredrik Bäckhed, Jeroen Raes, and Karine Clément Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism at Gut 2022 [DOI]
- 36. Boas C.L. van der Putten*, C. I. Mendes*, Brooke M. Talbot, Jolinda de Korne-Elenbaas, Rafael Mamede, Pedro Vila-Cerqueira, Luis Pedro Coelho, Christopher A. Gulvik, Lee S. Katz, and The ASM NGS 2020 Hackathon participants Software testing in microbial bioinformatics: a call to action at MICROBIAL GENOMICS 2022 [DOI]
- 37. Sofia K. Forslund*, Rima Chakaroun*, Maria Zimmermann-Kogadeeva*, Lajos Markó*, Judith Aron-Wisnewsky*, Trine Nielsen*, Lucas Moitinho-Silva, Thomas S. B. Schmidt, Gwen Falony, Sara Vieira-Silva, Solia Adriouch, Renato J. Alves, Karen Assmann, Jean-Philippe Bastard, Till Birkner, Robert Caesar, Julien Chilloux, Luis Pedro Coelho, Leopold Fezeu, Nathalie Galleron, Gerard Helft, Richard Isnard, Boyang Ji, Michael Kuhn, Emmanuelle Le Chatelier, Antonis Myridakis, Lisa Olsson, Nicolas Pons, Edi Prifti, Benoit Quinquis, Hugo Roume, Joe-Elie Salem, Nataliya Sokolovska, Valentina Tremaroli, Mireia Valles-Colomer, Christian Lewinter, Nadja B Søndertoft, Helle Krogh Pedersen, Tue H Hansen, *The MetaCardis Consortium*, Jens Peter Gøtze, Lars Køber, Henrik Vestergaard9,25, Torben Hansen9, Jean-Daniel Zucker7,20,21, Serge Hercberg, Jean-Michel Oppert, Ivica Letunic, Jens Nielsen, Fredrik Bäckhed, S. Dusko Ehrlich, Marc-Emmanuel Dumas, Jeroen Raes, Oluf Pedersen, Karine Clément†, Michael Stumvoll†, Peer Bork†*Combinatorial, additive and dose-dependent drugmicrobiome associations* at NATURE 2021 [DOI]
- 38. Askarbek Orakov*, Anthony Fullam*, **Luis Pedro Coelho**, Supriya Khedkar, Damian Szklarczyk, Daniel R Mende, Thomas SB Schmidt† and Peer Bork† *GUNC: Detection of Chimerism and Contamination in Prokaryotic Genomes* at GENOME BIOLOGY 2021 [DOI]
- 39. Mohammad Bahram, Tarquin Netherway, Clémence Frioux, Pamela Ferretti, **Luis Pedro Coelho**, Stefan Geisen, Peer Bork, and Falk Hildebrand *Metagenomic assessment of the global diversity and distribution of bacteria and fungi* at Environmental Microbiology 2020 [DOI]
- 40. Sara Vieira-Silva, Gwen Falony, Eugeni Belda, Trine Nielsen, Judith Aron-Wisnewsky, Rima Chakaroun, Sofia K. Forslund, Karen Assmann, Mireia Valles-Colomer, Thi Thuy Duyen Nguyen, Sebastian Proost, Edi Prifti, Valentina Tremaroli, Nicolas Pons, Emmanuelle Le Chatelier, Fabrizio Andreelli, Jean-Phillippe Bastard, Luis Pedro Coelho, Nathalie Galleron, Tue H. Hansen, Jean-Sébastien Hulot, Christian Lewinter, Helle K. Pedersen, Benoit Quinquis, Christine Rouault, Hugo Roume, Joe-Elie Salem, Nadja B. Søndertoft, Sothea Touch, MetaCardis Consortium, Marc-Emmanuel Dumas, Stanislav Dusko Ehrlich, Pilar Galan, Jens P. Gøtze, Torben Hansen, Jens J. Holst, Lars Køber, Ivica Letunic, Jens Nielsen, Jean-Michel Oppert, Michael Stumvoll, Henrik Vestergaard, Jean-Daniel Zucker, Peer Bork, Oluf Pedersen, Fredrik Bäckhed, Karine Clément and Jeroen Raes Statin therapy is associated with lower prevalence of gut microbiota dysbiosis in NATURE 581, 310–315 (2020) [DOI]
- 41. Oleksandr M. Maistrenko*, Daniel R. Mende*, Mechthild Luetge, Falk Hildebrand, Thomas S. B. Schmidt, Simone S. Li, Luis Pedro Coelho, Jaime Huerta-Cepas, Shinichi Sunagawa, Peer Bork Disentangling the impact of environmental and phylogenetic constraints on prokaryotic within-species diversity in ISME JOURNAL 14, 1247–1259 2020 [DOI]

- 42. Daniel R Mende, Ivica Letunic, Oleksandr M Maistrenko, Thomas S B Schmidt, Alessio Milanese, Lucas Paoli, Ana Hernández-Plaza, Askarbek N Orakov, Sofia K Forslund, Shinichi Sunagawa, Georg Zeller, Jaime Huerta-Cepas, Luis Pedro Coelho, Peer Bork proGenomes2: an improved database for accurate and consistent habitat, taxonomic and functional annotations of prokaryotic genomes in Mullel Acids Research 48:D1 D621-D625, 2020 [DOI]
- 43. Federico M. Ibarbalz, Nicolas Henry, Manoela C. Brandão, Séverine Martini, Greta Busseni, Hannah Byrne, Luis Pedro Coelho, Hisashi Endo, Josep M. Gasol, Ann C. Gregory, Frédéric Mahé, Janaina Rigonato, Marta Royo-Llonch, Guillem Salazar, Isabel Sanz-Sáez, Eleonora Scalco, Dodji Soviadan, Ahmed A. Zayed, Adriana Zingone, Karine Labadie, Joannie Ferland, Claudie Marec, Stefanie Kandels, Marc Picheral, Céline Dimier, Julie Poulain, Sergey Pisarev, Margaux Carmichael, Stéphane Pesant, Tara Oceans Coordinators, Marcel Babin, Emmanuel Boss, Daniele Iudicone, Olivier Jaillon, Silvia G. Acinas, Hiroyuki Ogata, Eric Pelletier, Lars Stemmann, Matthew B. Sullivan, Shinichi Sunagawa, Laurent Bopp, Colomban de Vargas, Lee Karp-Boss, Patrick Wincker, Fabien Lombard, Chris Bowler#, and Lucie Zinger# Global Trends in Marine Plankton Diversity across Kingdoms of Life in Cell, 2019 [DOI]
- 44. Guillem Salazar*, Lucas Paoli*, Adriana Alberti, Jaime Huerta-Cepas, Hans-Joachim Ruscheweyh, Miguelangel Cuenca, Christopher M. Field, Luis Pedro Coelho, Corinne Cruaud, Stefan Engelen, Ann C. Gregory, Karine Labadie, Claudie Marec, Eric Pelletier, Marta Royo-Llonch, Simon Roux, Pablo Sánchez, Hideya Uehara, Ahmed A. Zayed, Georg Zeller, 1 Margaux Carmichael, Céline Dimier, Joannie Ferland, Stefanie Kandels, Marc Picheral, Sergey Pisarev, Julie Poulain, Tara Oceans Coordinators, Silvia G. Acinas, Marcel Babin, Peer Bork, Chris Bowler, Colomban de Vargas, Lionel Guidi, Pascal Hingamp, Daniele Iudicone, Lee Karp-Boss, Eric Karsenti, Hiroyuki Ogata, Stephane Pesant, Sabrina Speich, Matthew B. Sullivan, Patrick Wincker, and Shinichi Sunagawa, Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome in Cell, 2019 [DOI]
- 45. Jakob Wirbel*, Paul Theodor Pyl*, Ece Kartal, Konrad Zych, Alireza Kashani, Alessio Milanese, Jonas S Fleck, Anita Y Voigt, Albert Palleja, Ruby P Ponnudurai, Shinichi Sunagawa, Luis Pedro Coelho, Petra Schrotz-King, Emily Vogtmann, Nina Habermann, Emma Niméus, Andrew M Thomas, Paolo Manghi, Sara Gandini, Davide Serrano, Sayaka Mizutani, Hirotsugu Shiroma, Satoshi Shiba, Tatsuhiro Shibata, Shinichi Yachida, Takuji Yamada, Levi Waldron, Alessio Naccarati, Nicola Segata, Rashmi Sinha, Cornelia M. Ulrich, Hermann Brenner, Manimozhiyan Arumugam, Peer Bork, Georg Zeller Meta-analysis of fecal metagenomes reveals global microbial signatures that are specific for colorectal cancer in NATURE MEDICINE vol. 25, pp. 679–689 (2019) [DOI]
- 46. Alessio Milanese*, Daniel Mende*, Lucas Paoli, Guillem Salazar, Hans-Joachim Ruscheweyh, Miguelangel Cuenca, Pascal Hingamp, Renato Alves, Paul Costea, Luis Pedro Coelho, Thomas Schmidt, Alexandre Almeida, Alex Mitchell, Robert Finn, Jaime Huerta-Cepas, Peer Bork, Georg Zeller, and Shinichi Sunagawa Microbial abundance, activity and population genomic profiling with mOTUs2 in NATURE COMMUNICATIONS, vol. 10, pp. 1014, 2019 [DOI]
- 47. Thomas SB Schmidt*, Matthew R Hayward*, Luis Pedro Coelho, Simone S Li, Paul I Costea, Anita Y Voigt, Jakob Wirbel, Oleksandr M Maistrenko, Renato J Alves, Emma Bergsten, Carine de Beaufort, Iradj Sobhani, Anna Heintz-Buschart, Shinichi Sunagawa, Georg Zeller, Paul Wilmes, Peer Bork Extensive Transmission of Microbes along the Gastrointestinal Tract in ELIFE, vol. 8, pp. e42693, 2019 [DOI]
- 48. Luigi Caputi*, Quentin Carradec*, Damien Eveillard*, Amos Kirilovsky*, Eric Pelletier*, Fabio Rocha Jimenez Vieira, Emilie Villar, Shruti Malviya, Eleonora Scalco, Silvia G. Acinas, Adriana Alberti, Jean-Marc Aury, Alexis Bertrand, Tristan Biard, Lucie Bittner, Martine Boccara, Jennifer R. Brum, Christophe Brunet, Anna Carratalà, Samuel Chaffron, Hervé Claustre, Luis Pedro Coelho, Sébastien Colin, Salvatore D'Aniello, Corinne Da Silva, Marianna Del Core, Hugo Doré, Stéphane Gasparini, Florian Kokoszka, Jean-Louis Jamet, Christophe Lejeusne, Cyrille Lepoivre, Magali Lescot, Gipsi Lima-Mendez, Fabien Lombard, Julius Lukeš, Nicolas Maillet, Elodie Martinez, MariaGrazia Mazzocchi, Mario B. Néou, Javier Paz-Yepes, Julie Poulain, Simon Ramondenc, Jean-Baptiste Romagnan, Simon Roux, Daniela Salvagio Manta, Remo Sanges, Sabrina Speich, Mario Sprovieri, Shinichi Sunagawa, Vincent Taillander, Atsuko Tanaka, Leila Tirichine, Camille Trottier, Julia Uitz, Jana Veseláy, Flora Vincent, Sheree Yau, Stefanie Kandels- Lewis, Sarah Searson, Céline Dimier, Marc Picheral, Tara Oceans Coordinators, Emmanuel Boss, Colomban de Vargas, Mick Follows, Nigel Grimsley, Lionel Guidi, Pascal Hingamp, Eric Karsenti, Paolo Sordino, Lars Stemmann, Matthew B. Sullivan, Adriana Zingone, Laurence

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Review articles

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- 68. Aabid Shariff, Joshua Kangas, Luis Pedro Coelho, Shannon Quinn, and Robert F. Murphy; Automated Image Analysis for High Content Screening and Analysis in JOURNAL OF BIOMOLECULAR SCREENING, August 2010, pp. 726–734 [DOI]

Books

1. Luis Pedro Coelho, Willi Richert; *Building Machine Learning Systems with Python*, Packt Publishing, 2013 (first ed.); 2015 (second ed.); 2018 (third ed.)

Selected Invited Talks

- 1. The global microbiome. Big data & small genes at Nanjing Agricultural University (Nanjing, China), April 2023
- 2. The global microbiome. Big data & small genes at INRAE (Paris, France), April 2023
- 3. SemiBin: using self-supervised deep learning for better metagenomics binning at Faculty of Mathematics University of Belgrade and the Serbian Society for Bioinformatics and Computational Biology (remote), February 2023
- 4. *Big catalogs and small genes* at the Novel challenges in the quest for orthologs workshop (part of ECCB 2022), September 2022
- 5. The global microbiome. Big data & small genes at the Gothenburg Bioinformatics Network, September 2022
- 6. Analysing the microbiome at a global scale Novo Nordisk Prize Symposium, June 2022
- 7. *Micropeptides: Biogenesis and Function*, Micropeptides: Biogenesis and Function/GPCRs Keystone Symposium, April 2022
- 8. Invited seminar at University of Innsbruck, March 2022
- 9. Invited seminar at Luxembourg Institute of Health, March 2022
- 10. Invited seminar at JGI (remote), March 2022
- 11. Microbes and antimicrobes at the global scale at Institut Pasteur Shanghai, December 2020
- 12. The use of animal models for assessing antimicrobial impact on the gut microbiome at ICOHAR, April 2019
- 13. High-throughput fluorescence microscopy of environmental samples obtains single-cell phenotypic measurements, Paris Single Cell Day 2018, October 2018
- 14. *Metagenomics based investigations of microbial communities*, Symposium on Computational Biology at Fudan University, Shanghai, August 2018
- 15. Life in Words and Pictures: sequencing and imaging for analysing microbial communities, Dept. of Biomedical Research, University of Bern, November 2017
- 16. Statistical tools for analysing the microbiome in environmental and clinical applications, Novo Nordisk Foundation Center for Basic Metabolic Research, October 2017
- 17. Looking at the oceans with computer vision in Python, invited keynote at PyCon Firenze (Italy), April 2016
- 18. Structure and function of the ocean microbiome, lecture at the course Biology of ecological systems, Ecole Nationale Superior (France), December 2015
- 19. *Life in words and pictures: Sequencing and microscopy for the analysis of microbial communities*, Luxembourg Centre for Systems Biomedicine, September 2015
- 20. An analysis of 243 metagenomes collected by the Tara Oceans Projects, Station Biologique de Roscoff, July 2015
- 21. Machine Learning: What it can do for you (and what it cannot), BrightTalk online seminar, May 2015
- 22. Webcast: Penalized Linear Regression in Python, O'Reilly Webcasts, October 2014
- 23. Python for Computer Vision in Biology and Beyond, Python San Sebastian, keynote, September 2014
- 24. *Large Scale Analysis of Bioimages Using Python*, International Workshop on Technical Computing for Machine Learning and Mathematical Engineering, Leuven (Belgium), September 2014
- 25. Mahotas and the Python Ecosystem for Bioimage Informatics Applications, European Bioimage Analysis Symposium, Barcelona, October 2013

- 26. Organizing the Proteome with Location and Function Topics, Freiburg Institute for Advanced Studies, April 2013
- 27. Modeling Subcellular Location from Images and Other Sources of Information, Luxembourg Centre for Systems Biomedicine, July 2012
- 28. Modeling Subcellular Location from Images and Other Sources of Information, Priberam Machine Learning Lunch Seminar, June 2012
- 29. Modeling Subcellular Location from Images and Other Sources of Information, EAO Seminar (Instituto Gulbenkian da Ciência), Oeiras, March 2012
- 30. Learning Subcellular Location from Images and Other Sources of Information, KDBIO (Knowledge Discovery and Bioinformatics) seminar, Lisbon, February 2012
- 31. *Bioimage Informatics: Computer Vision for Biology*, EMBO Practical Course on Microscopy: from single molecules to animals, Pretoria, November 2011
- 32. Studying the subcellular location space with bioimages and other data modalities, University of Delaware, Computer and Information Sciences Department, September 2011
- 33. Proteome-scale analysis and modeling of subcellular location, 4th CeBiTec Symposium BioImaging, Bielefeld (Germany), 25–27 August 2009
- 34. *Unsupervised Mixture Pattern Unmixing*, University of Bielefeld International Graduate School of Bioinformatics and Genome Research, July 2008

Selected Conference Talks

- 1. Shaojun Pan, Chengkai Zhu, Xing-Ming Zhao, and Luis Pedro Coelho SemiBin: Incorporating information from reference genomes with semi-supervised deep learning leads to better metagenomic assembled genomes (MAGs), mVIF.2 (Microbiome Virtual International Forum), Online, 2021
- 2. Luis Pedro Coelho*, Sebastien Colin*, Shinichi Sunagawa, Eric Karsenti, Peer Bork, Rainer Pepperkok, and Colomban de Vargas Environmental High-content Fluorescence Microscopy (e-HCFM) of Tara Oceans Samples Provides a View of Global Ocean Protist Biodiversity, Ocean Sciences, New Orleans, 2016
- 3. Shinichi Sunagawa, **Luis Pedro Coelho**, Samuel Chaffron, Eric Karsenti, Jeroen Raes, Silvia Acinas, Peer Bork *Structure and function of the global ocean microbiome*, ASLO, Granada (Spain) 2015
- 4. Luis Pedro Coelho Jug: Reproducible Research in Python, BOSC, Berlin 2013
- 5. Rita Reis and Luis Pedro Coelho; *Using Theatre to Fight HIV/AIDS in Mozambique*, National Conference of the Association for Theatre in Higher Education, Chicago 2011
- 6. Luis Pedro Coelho and Robert F. Murphy; Determining Resolvable Subcellular Location Categories as a Function of Image Resolution, 24th ISAC Congress, Budapest 2008