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Publication List

NON-PEER-REVIEWED ARTICLES, PREPRINTS, AND OTHER MEDIA (7)

- Rodriguez-Gijon A, Pacheco-Valenciana A, Milke F, Dharamshi JE, Hampel JJ, ..., **Rodriguez-R LM**, Garcia SL (2025). The ecological success of freshwater microorganisms is mediated by streamlining and biotic interactions. *bioRxiv*. DOI: 10.1101/2025.03.24.644981.
- Zhao J, Brandt G, Wang Z, Hunt DE, **Rodriguez-R LM**, et al (2024). Microbial Response to Natural Disturbances: Rare Biosphere Often Plays a Role. *bioRxiv*. DOI: 10.1101/2024.03.06.583742.
- Rodriguez-R LM** (2022). Register list proposing *Elulimicrobium humile* sp. nov. gen. nov. and their lineage. *The SeqCode Registry* r:abw4_f8a. DOI: 10.57973/seqcode.r:abw4_f8a.
- Rodriguez-R LM** (2022). *Macondimonas diazotrophica* sp. nov. gen. nov. *The SeqCode Registry* r:6ns_rdob. DOI: 10.57973/seqcode.r:6ns_rdob.
- Rodriguez-R LM** (2021). Behind the paper: Generalists thrive after a catastrophe. *Nature Portfolio Microbiology Community*. <https://microbiologycommunity.nature.com/posts/generalists-thrive-after-a-catastrophe>.
- Rodriguez-R LM**, Konstantinidis KT (2016). The enveomics collection: A toolbox for specialized analyses of microbial genomes and metagenomes. *PeerJ Preprints* 4:e1900v1. DOI: 10.7287/peerj.preprints.1900v1.
- Rodriguez-R LM**, Konstantinidis KT (2014). Bypassing cultivation to identify bacterial species. *Microbe* 9(3), 111-118.

NON-PEER-REVIEWED CONFERENCE PAPERS (5)

- Heritier-Robbins P, Karthikeyan S, **Rodriguez-R LM**, Kim M, Hatt J, Overholt W, Kostka JE, Huettel MH, Konstantinidis K (2020). Oil Disturbance Selects for Generalists, not Specialists, in a Beach Sand Microbial Community. Ocean Sciences Meeting 2020.
- Karthikeyan S, **Rodriguez-R LM**, Heritier-Robbins P, Huettel MH, Kostka JE, Konstantinidis K (2020). The Crude-Oil Microbiome Webserver: An interactive, searchable (meta-) genome repository that expands the catalogued diversity of crude-oil-associated microbes. Ocean Sciences Meeting 2020.
- Poulin L, Grygiel P, Magne M, Gagnevin L, Vernière C, **Rodriguez-R LM**, Forero Serna N, Zhao S, Rafii M, Verdier V, Koebnik R (2014). A VNTR tool for diagnostic and epidemiological surveillance of the plant pathogen *Xanthomonas oryzae* and its application to the newly reported Malagasy BLS epidemics. Session 5-Dynamique, épidémiologie et génétique des populations bactériennes.
- Jeong K, Munoz Bodnar A, Poulin L, Arias Rojas N, **Rodriguez-R LM**, Gagnevin L, Pruvost O, Koebnik R (2013). CRISPR systems in plant pathogens: A new tool for epidemiological surveillance. APS-MSA Joint Meeting. DOI: 10.1094/PHYTO-103-6-S2.1.
- Gutierrez S, **Rodriguez LM**, Pardo C, Pinzon D, Morales N, Restrepo S, Bernal A (2008). Identification of effector genes in *Xanthomonas axonopodis* pv. *manihotis* using bioinformatics and a forward genetics screen. 2008 APS Centennial Meeting, Phytopathology, 98(6), S64-S64. DOI: 10.1094/PHYTO.2008.98.6.S9.

PEER-REVIEWED BOOK CHAPTERS (4)

- Rodriguez-R LM**, Rossello-Mora R, Konstantinidis KT (2021). Chapter 13: Identification and Classification of Prokaryotes Using Whole Genome Sequences. In Stackebrandt E, Bridge P, Smith D (Eds.), Reconciling microbial systematics. CABI. DOI: 10.1079/9781789244984.0217.
- Rodriguez-R LM**, Harvey W, Rossello-Mora R, Tiedje JM, Cole JR, Konstantinidis KT (2020). Classifying Prokaryotic Genomes Using the Microbial Genomes Atlas (MiGA) Webserver. In Bergey's Manual of Systematics of Archaea and Bacteria. Wiley. DOI: 10.1002/9781118960608.bm00042.

Luo C*, **Rodriguez-R LM***, Konstantinidis KT (2013). Chapter 23: A User's Guide to Quantitative and Comparative Analysis of Metagenomic Datasets. In *Methods in enzymology*, 531, 525-547. DOI: 10.1016/B978-0-12-407863-5.00023-X. * Equal contribution (first co-authorship).

Kostka JE, Overholt WA, **Rodriguez-R LM**, Huettel M, Konstantinidis KT (2020). Toward a predictive understanding of the benthic microbial community response to oiling on the northern Gulf of Mexico coast. In *Scenarios and Responses to Future Deep Oil Spills* (pp. 182-202). Springer, Cham. DOI: 10.1007/978-3-030-12963-7.

PEER-REVIEWED ARTICLES (70)

* Denotes equal contribution (first co-authorship).

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Simon SA, Aschmann V, Behrendt A, Hügler M, Engl LM, ..., **Rodriguez-R LM**, ..., Probst AJ. Earth's most needed uncultivated aquatic prokaryotes. *Water Research* 273, 122928. DOI: 10.1016/j.watres.2024.122928.

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Rodriguez-R LM, Conrad RE, Viver T, Feistel DJ, Lindner BG, Venter SN, Orellana LH, Amann R, Rossello-Mora R, Konstantinidis KT. An ANI gap within bacterial species that advances the definitions of intra-species units. *mBio* 15(1). DOI: 10.1128/mbio.02696-23.

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Díaz-García L, Chuvochina M, Feuerriegel G, Bunk B, Spröer C, Streit WR, **Rodriguez-R LM**, Overmann J, Jiménez DJ. Andean soil-derived lignocellulolytic bacterial consortium as a source of novel taxa and putative plastic-active enzymes. *Systematic and Applied Microbiology* 47(1), 126485. DOI: 10.1016/j.syapm.2023.126485.

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Lindner BG, Gerhardt K, Feistel DJ, **Rodriguez-R LM**, Hatt JK, Konstantinidis KT. A user's guide to the bioinformatic analysis of shotgun metagenomic sequence data for bacterial pathogen detection. *International Journal of Food Microbiology* 410, 110488. DOI: 10.1016/j.ijfoodmicro.2023.110488.

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Perez-Quintero AL*, **Rodriguez-R LM***, Cuesta-Morondo S, Hakalová E, Betancurt-Anzola D, *et al.* Comparative genomics identifies conserved and variable TAL effectors in African strains of the cotton pathogen *Xanthomonas citri* pv. *malvacearum*. *Phytopathology* 113(8). DOI: 10.1094/PHYTO-12-22-0477-SC.

Embacher J, Zeilinger S, Kirchmair M, **Rodriguez-R LM**, Neuhauser S. Wood decay fungi and their bacterial interaction partners in the built environment—A systematic review on fungal bacteria interactions in dead wood and timber. *Fungal Biology Reviews* 45, 100305. DOI: 10.1016/j.fbr.2022.100305.

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- Gerhardt K*, Ruiz-Perez CA*, **Rodriguez-R LM***, Conrad RE, Konstantinidis KT. RecruitPlotEasy: An advanced read recruitment plot tool for assessing metagenomic population abundance and genetic diversity. *Frontiers in Bioinformatics* 1, 826701. DOI: 10.3389/fbinf.2021.826701.
- Zhang SY*, Suttner B*, **Rodriguez-R LM***, Orellana LH, Conrad RE, Liu F, Rowell JL, Webb HE, Williams-Newkirk AJ, Huang A, Konstantinidis KT. ROCKER models for reliable detection and typing of short-read sequences carrying β -lactamase genes. *mSystems* 7(3). DOI: 10.1128/msystems.01281-21.
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- Díaz Rodríguez CA, Díaz-García L, Bunk B, Spröer C, Herrera K, Taraona NA, **Rodriguez-R LM**, Overmann J, Jiménez DJ. Novel bacterial taxa in a minimal lignocellulolytic consortium and their potential for lignin and plastics transformation. *ISME Communications* 2, 89. DOI: 10.1038/s43705-022-00176-7.
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- Heritier-Robbins P, Karthikeyan S, Hatt JK, Kim M, Huettel M, Kostka JE, Konstantinidis KT, **Rodriguez-R LM**. Beach sand oil spills select for generalist microbial populations. *The ISME Journal* 15, 3418-3422. DOI: 10.1038/s41396-021-01017-6.
- Rodriguez-R LM**, Jain C, Conrad RE, Aluru S, Konstantinidis KT. Reply to: "Re-evaluating the evidence for a universal genetic boundary among microbial species". *Nature Communications* 12, 4060. DOI: 10.1038/s41467-021-24129-1.
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Karthikeyan S, **Rodriguez-R LM**, Heritier-Robbins P, Kim M, Overholt WA, Gaby JC, Hatt JK, Spain JC, Rosselló-Móra R, Huettel M, et al. “*Candidatus Macondimonas diazotrophica*”, a novel gammaproteobacterial genus dominating crude-oil-contaminated coastal sediments. *The ISME Journal* 13(8), 2129–2134. DOI: 10.1038/s41396-019-0400-5.

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2015

- Rodriguez-R LM**, Overholt WA, Hagan C, Huettel M, Kostka JE, Konstantinidis KT. Microbial community successional patterns in beach sands impacted by the Deepwater Horizon oil spill. *The ISME Journal* 9(9), 1928–1940. DOI: 10.1038/ismej.2015.5.
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