




Xabier Vázquez-Campos, PhD






Computational biologist | Environmental microbiologist

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EDUCATION

- 2015
|
2011
- **PhD in Environmental Engineering**
The University of New South Wales  Sydney, Australia
 - Thesis: "Geomicrobiological aspects of the (bio)leaching of weathered low-grade uranium ore". [doi](#)
 - Supervisors: Prof. T. David Waite, Prof. Brett A. Neilan.
 - Co-supervisors: Dr. Richard N. Collins, Dr. Andrew S. Kinsela.
- 2008
|
2007
- **MSc in Microbiology**
Autonomous University of Madrid  Madrid, Spain
 - Thesis: "Set-up of molecular ecology methodologies for the monitoring of microbial populations in an indirect reactor for the bioleaching of Zn from polymetallic sulfide concentrates" [in Spanish].
 - Supervisor: Prof. Ricardo Amils.
- 2007
|
2002
- **Licenciate in Biology**
University of Vigo  Vigo, Spain
 - 5 years degree (300 ECTS).
 - Equivalent to BSc in Biology and MSc in Biotechnology.

RESEARCH EXPERIENCE

- Current
|
2023
- **Senior research associate / Postdoctoral fellow**
School of Biotechnology and Biomolecular Sciences  The University of New South Wales
- 2023
- **Research assistant (casual)**
School of Biotechnology and Biomolecular Sciences  The University of New South Wales
- 2023
- **Bioinformatics scientist**
MINIMUM bio  Sydney, Australia
- 2023
- **Visiting fellow**
School of Biotechnology and Biomolecular Sciences  The University of New South Wales
- 2022
- **Senior research associate / Postdoctoral fellow**
NSW Systems Biology Initiative. School of Biotechnology and Biomolecular Sciences  The University of New South Wales
 - Bioinformatics support / consulting.
 - Consulting for the Ramaciotti Centre for Genomics, and its customers, esp. amplicon, metagenomics and Oxford Nanopore applications.

CONTACT

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📺 [xvazquezc](#)
in [LinkedIn](#)
R⁶ [ResearchGate](#)
📖 [Google Scholar](#)
ID [0000-0003-1134-5058](#)
R [E-4772-2013](#)

COMPUTATIONAL BIOLOGY

- Amplicon data analysis (16S, 18S and ITS).
- Genome-based metagenomics.
- Phylogenetics and phylogenomics with maximum likelihood methods.
- Assembly and annotation of (meta)genomes, including eukaryotes.
- Experience with short and long read data.
- Structural modelling of proteins and protein complexes. Protein model evaluation.

CODING SKILLS

- Main languages: BASH and R. Some SQL and AWK.
- Reproducible reporting with Rmarkdown.
- Environment management with Conda.
- Experienced HPC user.
- Data visualisation and integration.

Made with the R package [pagedown](#).

The source code is available on my [datadrivencv-academic repository](#).

Last updated on 2025-12-01.

- 2021
|
2017
- **Research associate / Postdoctoral fellow**
NSW Systems Biology Initiative. School of Biotechnology and Biomolecular Sciences
📍 The University of New South Wales
 - Consulting for the Ramaciotti Centre for Genomics.
 - Collaborative bioinformatics research as part of a team including the users of the Ramaciotti Centre for genomics.
- 2017
|
2015
- **Research associate / Postdoctoral fellow**
BioGEMS group. Water Research Centre and School of Civil and Environmental Engineering
📍 The University of New South Wales
 - Study of microbial communities in a burial ground containing mixed radioactive waste (Pu, Am).
 - Metagenomics of and groundwater and soil. Reconstruction of microbial genomes from metagenomic data.
 - Management of the PC2 microbiology laboratory and management support for the Radiation laboratory.
- 2011
- **Research assistant (casual)**
BioGEMS group, School of Civil and Environmental Engineering
📍 The University of New South Wales
- 2011
|
2010
- **Research assistant**
Bioprocesses Group, Faculty of Chemistry
📍 University of Vigo
 - DRACORE project: DRAgado + CONfinamiento + REvalorización (Dredging + Containment + Revaluation).
 - Testing of heavy metal resistance; testing of aliphatic and polycyclic hydrocarbons as sole carbon sources and biodegradation; HPLC operation; microorganism isolation;...
- 2007
|
2006
- **Research assistant**
Bioprocesses Group, Faculty of Chemistry
📍 University of Vigo
 - Introduction to research grant from the Spanish Science and Education Ministry.
- 2006
- **Teaching assistant**
Faculty of Biology
📍 University of Vigo
 - Lecturer's support in the Bologna process.
 - Grant provider: University of Vigo.



TEACHING EXPERIENCE



Courses

- 2020
- **CVEN9855 - Water & Wastewater Analysis**
School of Civil and Environmental Engineering.
📍 The University of New South Wales
 - Term 1. Section on microbiology of wastewater



Invited Lectures

2012



Uranium heap leaching: Microbiological aspects

School of Civil and Environmental Engineering.

📍 The University of New South Wales



Workshops

2019



EMBL-ABR: Phylogenetic trees for beginners

EMBL-ABR (Sydney node).

📍 The University of New South Wales

• Node organiser and facilitator.



EMBL-ABR: Implementing Scalable Bioinformatic Workflows in Snakemake & Nextflow

EMBL-ABR (Sydney node).

📍 The University of New South Wales

• Facilitator.

2018



EMBL-ABR: 16S Metagenomics with Galaxy Australia

EMBL-ABR (Sydney node).

📍 University of Sydney

• Facilitator.



Long-read Data Analysis Workshop

NSW Systems Biology Initiative.

📍 The University of New South Wales

• Organiser, trainer, facilitator.

2011



Hands on Zotero, a free alternative to EndNote

Bioprocesses group.

📍 University of Wollongong

• Organiser, sole trainer.

• Group's internal workshop.



Supervision

Current
|
2022



Julia Meltzer

PhD. Role: Cosupervisor.

📍 University of New South Wales

Biology of Asgard Archaea viruses

2024
|
2019



Kevin Yonathan

PhD. Role: External supervisor.

📍 University of Technology, Sydney

Study of the response of microbial communities to silver nanoparticles through metagenomics.

I have also informally supervised, supported, mentored, or collaborated with a total of 38 students across multiple levels (1 Course project, 16 Honours, 20 PhD, and 1 Practicum).



GRANTS

2021
|
2020

Bioplatforms Australia / NSW Department of Industry RAAP – NCRIS NSW Co-investment Support Shared Grant

📍 School of Biotechnology and Biomolecular Sciences /
Ramaciotti Centre for Genomics at
The University of New South Wales

- Total amount: AU\$600,000
- Role: investigator. CI: Prof. Marc Wilkins

2020

BABS sequencing grant

Investigation of a phage capable of species cross-infection

📍 School of Biotechnology and Biomolecular Sciences /
Ramaciotti Centre for Genomics at
The University of New South Wales

- AU\$5,000 for sequencing
- Role: co-CI with Dr. Dragica Damjanović and Dr. Melissa Harvey

2020
|
2019

ResTech Support Scheme

OTUreporter pipeline coding project

📍 The University of New South Wales

- AU\$15,000
- Role: project lead. CI: Prof. Marc Wilkins

2015

Postdoctoral writing Fellowship Grant

📍 School of Civil and Environmental Engineering at The
University of New South Wales

- 0.4 FTE salary for 12 weeks

2015
|
2011

UNSW Tuition fee scholarship

📍 Graduate Research School at The University of New
South Wales

- Tuition fees for PhD program
- Supervisors: Prof. T. David Waite and Prof. Brett A. Neilan

2015
|
2011

Australian Postgraduate Award (Industry)

📍 Australian Federal Government

- AU\$27,651.00 per year for 3.5 years
- Supervisors: Prof. T. David Waite and Prof. Brett A. Neilan



AWARDS

2020

SRAP Laureate 2020

📍 Spanish Researchers in Australia-Pacific



TRAINING AND PROFESSIONAL DEVELOPMENT



Courses

2024

Statistics Fundamentals with R – Skill Track










DataCamp.

📍 Online

I have completed about 20 h of training in courses and workshops in the last two years alone.



2022	●	Differential Expression Analysis with limma in R DataCamp.	📍 Online
	●	R Programming – Skill Track (updated) DataCamp.	📍 Online
	●	Importing & Cleaning Data with R – Skill Track DataCamp.	📍 Online
	●	Data manipulation with R – Skill Track DataCamp.	📍 Online
	●	Data Visualization with R – Skill Track DataCamp.	📍 Online
2021	●	Intermediate Tidyverse Toolbox Track – Skill Track DataCamp.	📍 Online
2020	●	SQL Fundamentals – Skill Track DataCamp.	📍 Online
	●	R Programming – Skill Track DataCamp.	📍 Online
	●	Python Fundamentals – Skill Track DataCamp.	📍 Online
	●	Tidyverse Fundamentals with R – Skill Track DataCamp.	📍 Online
2018	●	Introduction to Git for Data Science DataCamp.	📍 Online
	●	Jekyll: make fast, secure static sites and blogs with Jekyll Udemy.	📍 Online
2016	●	Introduction to Python for Data Science (DAT208x) Microsoft.	📍 Online
	●	Introduction to R for Data Science (DAT204x) Microsoft.	📍 Online
2015	●	Astrobiology and the Search for Extraterrestrial Life The University of Edinburgh.	📍 Online
	●	HTML & CSS Codecademy.	📍 Online
	●	Introduction to Genomic Technologies Johns Hopkins University.	📍 Online

Workshops

- 2021
 - **Viral metagenomics with Hecatomb**
ABACBS2021 Conference.  Remote
 - **Using containers in bioinformatics**
Australia BioCommons.  Remote
 - **Path Forward for Naming the Uncultivated**
SeqCode2021 committee.  Remote
- 2018
 - **JAMS 2018 TOAST Workshop**
Joint Academic Microbiology Seminars.  University of Technology, Sydney, AUS
 - **Resolving Microbial Communities At Strain-Level Resolution**
A. Murat Eren et al..  University of Exeter, GBR
- 2017
 - **Genome annotation using Apollo**
Monica Munoz-Torres / EMBL-ABR.  Remote
- 2016
 - **The Omics Analysis Sydney Tutorial (TOAST)**
Joint Academic Microbiology Seminars.  Australian Museum, Sydney, AUS
 - **Anvi'o workshop**
A. Murat Eren et al..  University of Montreal, CAN
- 2015
 - **Bioinformatics for microbial ecology and genomics**
Australian Society for Microbiology.  Australia National University, Canberra, AUS

PUBLICATIONS

Rx *Pre-Prints*

- 2025
 - **Persistent Petroleum Pollution: Microbial Responses in Bunger Hills, East Antarctica**
Research Square, rs-6608817. 
 - K. K. Tan, X. Vázquez-Campos, G. Price, K. Williams, R. McWatters, K. Abdullah, N. Machado de Lima, T. Laird, A. Ray, J. Vink, D. Tribbia, D. Wilkins, T. Spedding & B. Ferrari.
 - **An Asgard archaeon from a modern analog of ancient microbial mats**
bioRxiv, 663070. 
 - S. Nobs, M. D. Johnson, T. J. Williams, J. Meltzer, X. Vázquez-Campos, F. I. MacLeod, K. Rowell, M. Pitt, B. Paul, D. C. Shepherd, K. A. Michie, I. G. Duggin, D. Ghosal & B. P. Burns.


Under Review

2025

- **Integrating novel culturing and culture-independent methods to unveil soil fungal dark matter, functional guilds and environmental drivers across Robinson Ridge, East Antarctica**
Mycology, 256901951.
N. Benaud, N. M. Machado de Lima, S. Y. Wong, **X. Vázquez-Campos**, P. R. Majumdera, D. Wilkins, K. Montgomery, M. Wiechers, B. A. Summerell & B. C. Ferrari.
- **Carbon monoxide dehydrogenase-encoding microorganisms in volcanic astrobiological analogues: an enzyme system to investigate the evolution of life**
FEMS Microbiology Ecology, FEMSEC-25-11-0297.
V. Latorre, **X. Vázquez-Campos**, B. C. Ferrari & M. Hernández.
- **Bushfire and mining impacts on a threatened swamp ecosystem: responses of the soil microbial community**
Environmental Microbiology Reports, 3329896.
N. M. Machado de Lima, **X. Vázquez-Campos**, A. Thomsen, M. Ooi & M. Muñoz-Rojas.
- **Trace gas oxidation supports sub-surface microbial communities across Namib Desert fog and aridity gradients**
ISME Communications, ISMEJ-D-25-01717.
D. Z. Tribbia, P. H. Lebre, **X. Vázquez-Campos**, A. E. Ray, T. Laird, N. Machado de Lima, G. Mags-Kölling, D. A. Cowan & B. C. Ferrari.

Journal Articles

2025

- **DNA reference reagents isolate biases in microbiome profiling: a global multi-lab study**
mSystems 10(11), e00466-25. 
S. Anwar, M. Lamaudiere, J. Hassall, J. Dehinsilu, R. K. Bhuller, G. L. Hold, **X. Vázquez-Campos**, A. Mahnert, C. Moissl-Eichinger, B. Gallé, G. Kainz, P. Pjevac, B. Hausmann, J. Schwarz, G. Kohl, D. Berry, S. J. Vancuren, E. Allen-Vercoe, N. Nielsen, N. Sørensen, A. Eklund, H. B. Nielsen, R. Riedel, J. L. Krause, H. Chang, S. Park, H. Song, H. Seo, A. ul-Haq, S. Kim, Y. Kwon, S. Park, X. Soberon, E. Silva-Herzog, J. A. Verlouw, P. Arp, M. Jhamai, R. Kraaij, A. R. Geelen, Q. R. Ducarmon, W. K. Smits, E. J. Kuijper, R. D. Zwartink, N. van Best, J. Penders, G. Le, C. Driessen, J. Kool, S. A. Shetty, S. Fuentes, M. Demirci, A. Yigin, C. Whalley, A. D. Beggs, C. Quince, R. James, S. Raguideau, M. Gordon, R. Mate, M. Fritzsche, N. P. Danckert, J. M. Blanco, J. R. Marchesi, M. Rauch, R. A. Williamson, A. B. van't Wout, A. Kritz, S. Rosecker, R. Stevens, L. Laws, L. Sayavedra, S. Romano, A. Telatin, D. Baker, A. Narbad, S. L. Servetas, J. G. Kralj, S. P. Forry, M. E. Hunter, J. N. Dootz, S. A. Jackson, C. E. Mason, D. J. Butler, C. Mozsary, J. Foox, N. Damle, A. Resh, A. Busswitz, P. Lenz, S. Sontag, A. Cross, C. Sanchez, M. Guo, K. Olson, E. A. Smith, A. J. La Reau, T. Ward, S. Kuersten, F. Hyde, I. Khrebtukova, G. Schroth, S. Rijpkema, G. C. Amos & C. Sergaki.

- **A roadmap for equitable reuse of public microbiome data**
Nature Microbiology 10(10), 2384-2395. [doi](#)
L. A. Hug, R. Hatzenpichler, C. Moraru, A. R. Soares, F. Meyer, A. Heyder, .
The Data Reuse Consortium & A. J. Probst.
- **Developmental differentiation of mouse inner ear neuron subpopulations resolved with a peripherin-promoter reporter within the *Grm8* locus**
Scientific Reports 15(1), 10281. [doi](#)
L. J. Pearson, J. L. Pinyon, J. M. Cederholm, G. von Jonquieres, F. Bartlett, X. Vázquez-Campos, F. Delerue, L. M. Ittner & G. D. Housley.
- ***Penicillium psychrofluorescens* sp. nov., a naturally autofluorescent Antarctic fungus**
Mycology 16(3), 1315-1338. [doi](#)
A. Furnell, N. Benaud, X. Vázquez-Campos, E. C. Liew, A. Mertin, J. A. Vink, K. Montgomery, M. R. Wilkins, B. A. Summerell & B. C. Ferrari.
- 2024 ● **Methylation of elongation factor 1A by yeast Efm4 or human eEF1A-KMT2 involves a beta-hairpin recognition motif and crosstalks with phosphorylation**
Journal of Biological Chemistry 300(2), 105639. [doi](#)
J. J. Hamey, A. Nguyen, M. Haddad, X. Vázquez-Campos, P. G. Pfeiffer & M. R. Wilkins.
- 2023 ● **Effect of standardized ginger root powder on gastrointestinal bacteria composition, gastrointestinal symptoms, mental health, fatigue, and quality of life: A double-blind placebo-controlled trial**
The Journal of Nutrition 153(11), 3193-3206. [doi](#)
M. Crichton, S. Marshall, W. Marx, E. Isenring, X. Vázquez-Campos, S. L. Dawson & A. Lohning.
- **Cross-linking mass spectrometry discovers, evaluates, and corroborates structures and protein-protein interactions in the human cell**
Proceedings of the National Academy of Sciences 120(17), e2219418120. [doi](#)
T. K. Bartolec, X. Vázquez-Campos, A. Norman, C. Luong, M. Johnson, R. J. Payne, M. R. Wilkins, J. P. Mackay & J. K. Low.
- **Evidence for a putative isoprene reductase in *Acetobacterium wieringae***
mSystems 8(2), e00119-23. [doi](#)
M. Kronen*, X. Vázquez-Campos*, M. R. Wilkins, M. Lee & M. J. Manefield [* co-first authors].

2022

- **Contaminant release, mixing and microbial fluctuations initiated by infiltrating water within a replica field-scale legacy radioactive waste trench**

Science of The Total Environment 851(Part 1), 158241. [doi](#)

A. S. Kinsela, T. E. Payne, M. W. Bligh, X. Vázquez-Campos, M. R. Wilkins, M. J. Comarmond, B. Rowling & T. D. Waite.

- **Metaproteomics reveals methyltransferases implicated in dichloromethane and glycine betaine fermentation by ‘*Candidatus Formimonas warabiya*’ strain DCMF**

Frontiers in Microbiology 13, 1035247. [doi](#)

S. I. Holland, X. Vázquez-Campos, E. Haluk, R. J. Edwards, M. J. Manefield & M. Lee.

- **The interplay between use of biological therapies, psychological state, and the microbiome in IBD**

Frontiers in Medicine 9, 788992. [doi](#)

P. Tavakoli, U. Vollmer-Conna, D. Hadzi-Pavlovic, X. Vázquez-Campos & M. C. Grimm.

- **Characterisation of bacteriophage vB_SmaM_Ps15 infective to *Stenotrophomonas maltophilia* clinical ocular isolates**

Viruses 14(4), 709. [doi](#)

D. Damjanović, X. Vázquez-Campos, L. Elliot, M. Willcox & W. J. Bridge.

2021

- **Genomic insights into the *Archaea* inhabiting an Australian radioactive legacy site**

Frontiers in Microbiology 12, 732575. [doi](#)

X. Vázquez-Campos, A. S. Kinsela, M. W. Bligh, T. E. Payne, M. R. Wilkins & T. D. Waite.

- **Biogeochemical mobility of contaminants from a replica radioactive waste trench in response to rainfall-induced redox oscillations**

Environmental Science & Technology 55(13), 8793-8805. [doi](#)

A. S. Kinsela, M. W. Bligh, X. Vázquez-Campos, Y. Sun, M. R. Wilkins, M. J. Comarmond, B. Rowling, T. E. Payne & T. D. Waite.

- **Biocrust cyanobacterial composition, diversity, and environmental drivers in two contrasting climatic regions in Brazil**

Geoderma 386, 114914. [doi](#)

N. M. Machado de Lima, M. Muñoz-Rojas, X. Vázquez-Campos & L. H. Branco.

- **Community-led, integrated, reproducible multi-omics with anvi'o**
Nature Microbiology 6(1), 3-6. [doi](#)

A. M. Eren, E. Kiefl, A. Shaiber, I. Veseli, S. E. Miller, M. S. Schechter, I. Fink, J. N. Pan, M. Yousef, E. C. Fogarty, F. Trigodet, A. R. Watson, Ö. C. Esen, R. M. Moore, Q. Clayssen, M. D. Lee, V. Kivenson, E. D. Graham, B. D. Merrill, A. Karkman, D. Blankenberg, J. M. Eppley, A. Sjödin, J. J. Scott, **X. Vázquez-Campos**, L. J. McKay, E. A. McDaniel, S. L. Stevens, R. E. Anderson, J. Fuessel, A. Fernandez-Guerra, L. Maignien, T. O. Delmont & A. D. Willis.
- 2020 ● **Shed Light in the DaRK Lineages of the Fungal Tree of Life—STRES**
Life 10(12), 362. [doi](#)

L. Selbmann, Z. Benkő, C. Coleine, S. de Hoog, C. Donati, I. Druzhinina, T. Emri, C. L. Ettinger, A. S. Gladfelter, A. A. Gorbushina, I. V. Grigoriev, M. Grube, N. Gunde-Cimerman, Z. Á. Karányi, B. Kocsis, T. Kubressioian, I. Miklós, M. Miskei, L. Muggia, T. Northen, M. Novak-Babič, C. Pennacchio, W. P. Pfliegler, I. Pöcsi, V. Prigione, M. Riquelme, N. Segata, J. Schumacher, E. Shelest, K. Sterflinger, D. Tesei, J. M. U'Ren, G. C. Varese, **X. Vázquez-Campos**, V. A. Vicente, E. M. Souza, P. Zalar, A. K. Walker & J. E. Stajich.
- **Bacteriophage genotyping using BOXA repetitive-PCR**
BMC Microbiology 20, 154. [doi](#)

D. Damjanovic, **X. Vázquez-Campos**, D. L. Winter, M. Harvey & W. J. Bridge.
- 2018 ● **Disentangling the drivers of functional complexity at the metagenomic level in Shark Bay microbial mat microbiomes**
The ISME Journal 12, 2619-2639. [doi](#)

H. L. Wong, R. A. White III, P. T. Visscher, J. C. Charlesworth, **X. Vázquez-Campos** & B. P. Burns.
- 2017 ● **Response of microbial community function to fluctuating geochemical conditions within a legacy radioactive waste trench environment**
Applied and Environmental Microbiology 83(17), e00729. [doi](#)

X. Vázquez-Campos, A. S. Kinsela, M. Bligh, J. J. Harrison, T. E. Payne & T. D. Waite.
- **Uranium extraction from a low-grade, stockpiled, non-sulfidic ore: Impact of added iron and the native microbial consortia**
Hydrometallurgy 167, 81-91. [doi](#)

X. Vázquez-Campos, A. S. Kinsela, R. N. Collins, B. A. Neilan & T. D. Waite.
- 2015 ● **Uranium binding mechanisms of the acid-tolerant fungus *Coniochaeta fodinicola***
Environmental Science & Technology 49(14), 8487-8496. [doi](#)

X. Vázquez-Campos, A. S. Kinsela, R. N. Collins, B. A. Neilan, N. Aoyagi & T. D. Waite.

- **Acidotolerant genus *Fodinomyces* (Ascomycota: *Capnodiales*) is a synonym of *Acidiella***

Czech Mycology 67(1), 37-38. [doi](#)

M. Kolařík, M. Hujslová & X. Vázquez-Campos.

- 2014 ● ***Fodinomyces uranophilus* gen. nov. sp. nov. and *Coniochaeta fodinicola* sp. nov., two uranium mine inhabiting Ascomycota fungi from northern Australia**

Mycologia 106(6), 1073-1089. [doi](#)

X. Vázquez-Campos, A. S. Kinsela, T. D. Waite, R. N. Collins & B. A. Neilan.

- 2012 ● **Isolation of novel benzo[a]anthracene-degrading microorganisms and continuous bioremediation in an expanded-bed bioreactor**

Bioprocess and Biosystems Engineering 35(5), 851-855. [doi](#)

E. Rosales, A. Pérez-Paz, X. Vázquez, M. Pazos & M. Sanromán.



Technical Reports

- 2023 ● **Create one new species in the genus *Menderavirus* (*Caudoviricetes*)**

X. Vázquez-Campos & D. Damjanović. *ICTV Proposal*, p. 7.

- 2022 ● **A WHO collaborative study to evaluate the candidate 1st WHO International Reference Reagents for Gut Microbiome analysis by Next-Generation Sequencing**

C. Sergaki, S. Anwar, J. Hassall, A. Logan, P. Rigsby, S. Rijpkema, G. Amos & . study participants. *WHO Publication*, p. 63.

- 2015 ● **Biogeochemical controls of uranium heap leaching**

A. Kinsela, X. Vázquez-Campos, R. Collins, B. Neilan & T. Waite. *Project Completion Report to ERA*, p. 87.



CONFERENCE CONTRIBUTIONS



Oral Presentations

- 2019 ● **Unusual DPANN Archaea from a radioactive legacy site**

Australian Microbial Ecology Conference (AusME 2019). [doi](#)

📍 Perth, WA, Australia

X. Vázquez-Campos, A. S. Kinsela, M. W. Bligh, M. R. Wilkins, T. E. Payne & T. D. Waite.

- 2017 ● **Metagenomic and geochemical changes following rainfall at a legacy radionuclide waste disposal site**

Australian Microbial Ecology Conference (AusME 2017). [doi](#)

📍 Melbourne, VIC, Australia

X. Vázquez-Campos, A. S. Kinsela, T. E. Payne & T. D. Waite.

- 2012 ● **The isolation of fungi from low-pH, high ionic strength uranium mine process water**
6th International Symposium on Biohydrometallurgy. [doi](#)
📍 Falmouth, UK
X. Vázquez-Campos, A. Kinsela, B. Neilan, R. Collins & T. Waite.

Posters

- 2019 ● **OTUreporter: amplicon to report in a single command**
Joint 30th International Conference on Genome Informatics (GIW) & Australian Bioinformatics and Computational Biology Society (ABACBS) Annual Conference (GIW/ABACBS 2019). [doi](#)
📍 Sydney, NSW, Australia
X. Vázquez-Campos, D. McFarlane, A. M. Chilton, J. R. Koval & M. R. Wilkins.
- 2018 ● **OTUreporter: an automated pipeline for the analysis and report of amplicon sequencing data**
ABACBS-2018 National Conference. [doi](#)
📍 Melbourne, VIC, Australia
X. Vázquez-Campos, A. Chilton, J. Koval, J. J. Tree & M. R. Wilkins.
- **New Archaea lineages from a radioactive legacy site**
Molecular biology of archaea: From mechanisms to ecology (MoBA6). [doi](#)
📍 Vienna, Austria
X. Vázquez-Campos, A. S. Kinsela, M. W. Bligh, M. R. Wilkins, T. E. Payne & T. D. Waite.
- **OTUreporter: a modular automated pipeline for the analysis and report of amplicon data**
Sydney Bioinformatics Research Symposium 2018. [doi](#)
📍 Sydney, NSW, Australia
X. Vázquez-Campos, A. Chilton, J. Koval, J. J. Tree & M. R. Wilkins.
- 2017 ● **Phylogenomics of a radioactive legacy site reveals new Archaea phyla of unknown function**
Sydney Bioinformatics Research Symposium 2017. [doi](#)
📍 Sydney, NSW, Australia
X. Vázquez-Campos, A. S. Kinsela, M. R. Wilkins, T. E. Payne & T. D. Waite.
- 2016 ● **Rainfall-mediated biogeochemical changes at a legacy radionuclide waste disposal site**
16th International Symposium on Microbial Ecology (ISME16). [doi](#)
📍 Montreal, Canada
X. Vázquez-Campos, A. S. Kinsela, J. J. Harrison, K. Wilsher, S. Thiruvoth, B. Rowling, T. E. Payne & T. D. Waite.

- 2014 ● **Biogeochemical changes during experimental column leaching of a weathered uranium composite**
15th International Symposium on Microbial Ecology (ISME15).
 📍 Seoul, South Korea
 X. Vázquez-Campos, A. Kinsela, T. Waite, R. Collins & B. Neilan.

🏠 Co-Authored Contributions

- 2022 ● **Exploring the human structural proteome, complexome and interactome with deep, large-scale crosslinking mass spectrometry**
27th Annual Lorne Proteomics Symposium.
 📍 Lorne, VIC, Australia
 T. K. Bartolec, M. Johnson, A. Hawken, A. Norman, R. J. Payne, X. Vázquez-Campos, M. R. Wilkins, J. P. Mackay & J. K. Low.
- 2020 ● **Nanosilver in the aquatic environment: impact on microbial communities**
22nd EMBL PhD Symposium "The Roaring 20s: A New Decade for Life Sciences".
 📍 EMBL Heidelberg, Germany
 K. Yonathan, X. Vázquez-Campos, R. Mann, K. R. Mahbub & C. Gunawan.
- 2019 ● **The impact of repeated redox cycling events on the biogeochemistry of a simulated legacy radioactive waste trench**
17th International Conference on the Chemistry and Migration Behaviour of Actinides and Fission Products in the Geosphere.
 📍 Kyoto, Japan
 A. S. Kinsela, M. W. Bligh, X. Vázquez-Campos, T. D. Waite, T. E. Payne, M. J. Comarmond & B. Rowling.
- 2018 ● **Microbial profiling of the Himalayan Puga geothermal system: towards an astrobiological model**
Astrobiology Australasia Conference 2018.
 📍 Rotorua, New Zealand
 A. M. Chilton, X. Vázquez-Campos, L. Steller, T. Djokic & M. J. Van Kranendonk.
- 2017 ● **Understanding oat stem rust pathogen genome by PacBio sequencing**
Sydney Bioinformatics Research Symposium 2017.
 📍 Sydney, NSW, Australia
 C. Dong, X. Vázquez-Campos, N. Deshpande, P. Zhang, M. R. Wilkins & R. F. Park.

Contributed abstracts presented by co-authors at conferences. Showing selected 5 out of 30.

👤 INVITED TALKS

- 2019 ● **Current trends in academia: online presence, community service and openness**
 Water Research Centre research seminar series. [🔗](#)
 📍 Water Research Centre, Kensington, Australia

2017

- **Assembly and annotation of *Puccinia graminis* f. sp. *avenae*, 'oat stem rust'. Lessons about the process and some results**
Invited talk at the Plant Breeding Institute.
📍 Plant Breeding Institute, Cobbitty, Australia
- **Metagenomic and geochemical changes following rainfall at a legacy radionuclide waste disposal site**
Joint Academic Microbiology Seminars (JAMS). [🔗](#)
📍 Sydney, Australia



SERVICE

- **Institutional Service**
 - University of New South Wales
 - Postgraduate student representative at the OH&S Committee of the School of Civil and Environmental Engineering (2013–2015).
- **Professional Affiliations**
 - American Society for Microbiology
 - Regular member (2015–Current).
 - Australian Bioinformatics and Computational Biology Society
 - Regular member (2018–Current).
 - Australian Society for Microbiology
 - Regular member (2015–Current).
 - International Society for Microbial Ecology
 - Regular member (2014–Current).
 - Spanish Researchers in Australia-Pacific
 - Co-founder (2014).
 - Board member and web/IT coordinator (2014–2020).
 - Regular member (2021–Current).

● Conferences

- Australian Microbial Ecology conference 2022 (AusME2022)
 - Plenary chair and poster judge (2022).
- 6th Australia-Spain Research Forum: Big Data
 - Event registration (2020).
- 5th Australia-Spain Research Forum: 5 years Bridging Australia and Spain in Research and Academia
 - Website (2019).
- 4th Australia-Spain Research Forum: Earth
 - Website (2018).
- 3rd Australia-Spain Research Forum: Air
 - Website and event registration (2017).
- 2nd Australia-Spain Research Forum: Light
 - Website (2016).
- Australia-Spain Water Forum
 - Website and event photography (2015).

● Peer Reviews

Reviewer for >10 different journals since 2016, including leading journals in their own fields, e.g., *Astrobiology*, *Environmental Science and Technology*, or *Microbiome*.

For a full record as reviewer, consult my public [ResearcherID profile](#).