

## RESEARCH OUTPUT LIST

### PUBLICATIONS

Peer-reviewed publications in international scientific journals

1. Mueller, V., **Chávez-Capilla, T.**, Feldmann, J., Mestrot, A. (2021). Increasing temperature and flooding enhance arsenic mobility in Swiss soils. *Science of the Total Environment* (submitted)
2. **Chávez-Capilla, T.** (2021). The need to unravel arsenolipid transformations. *DNA and Cell Biology*, 41(1). [Link to publication](#).
3. **Chávez-Capilla, T.**, Maher, W., Kelly, T., Foster, S. (2016). Evaluation of the ability of arsenic species to traverse cell membranes by simple diffusion using octanol-water and liposome-water partition coefficients. *Journal of Environmental Sciences*, 49, pages 222-232. [Link to publication](#).
4. **Chávez-Capilla, T.**, Beshai, M., Maher, W., Kelly, T., Foster, S. (2016). Bioaccessibility and degradation of naturally occurring arsenic species from food in the human gastrointestinal tract. *Food Chemistry*, 212(1), pages 189-197. [Link to publication](#).
5. León-Reyes, A., Epifani, M., **Chávez-Capilla, T.**, Palma, J., Díaz, R., (2014). Analysis of the different mechanisms of electrochemical energy storage in magnetite nanoparticles. *International Journal of Electrochemical Science*, 9, pages 3837-3845. [Link to publication](#).
6. Epifani, M., **Chávez-Capilla, T.**, Andreu, T., Arbiol, J., Palma, J., Morante, J.R., Díaz, R., (2012). Surface modification of metal oxide nanocrystals for improved supercapacitors. *Energy and Environmental Science*, 5, pages 7555-7558. [Link to publication](#).  
Chávez-Capilla, T. and Epifani, M. contributed equally to this article.

### PEER-REVIEWED BOOKS/MONOGRAPHS

1. **Chávez-Capilla, T.**, (2018). *The metabolism of arsenic in humans: bioaccessibility in the gastrointestinal tract, diffusion across lipid membranes and biotransformations in liver cells*, Doctoral Thesis in Applied Science, University of Canberra. [Link](#).
2. **Chávez-Capilla, T.**, (2011). *Synthesis and characterization of metal oxides for supercapacitors*, Master Thesis in Inorganic Chemistry and Chemical Engineering, Spanish National University for Distance Education.

### CONTRIBUTIONS TO CONFERENCES

1. **Chávez-Capilla, T.**, Mukherjee, M., Hapfelmeier, S., Mestrot, A., 2022, SETAC Europe 32<sup>nd</sup> Annual Meeting, Copenhagen, Denmark (abstract accepted for conference in May 2022)
2. Mueller, V., **Chávez-Capilla, T.**, Feldmann, J., Mestrot, A., 2022, Swiss Soil Science Society Meeting, Bern, Switzerland
3. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., 2022, GCB Symposium 2022, Bern, Switzerland
4. Mueller, V., **Chávez-Capilla, T.**, Feldmann, J., Mestrot, A., 2022, Winter Conference on Plasma Spectrochemistry, Tucson, Arizona, U.S.
5. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., 2021, SSM Annual Congress
6. **Chávez-Capilla, T.**, Mukherjee, M., Coll-Crespi, M., Deonarine, A., Bernier-Latmani, R., Hapfelmeier, S., Mestrot, A., 2021, Swiss Geoscience Meeting, University of Geneva, Switzerland
7. Guan, H., Caggia V., Coll-Crespi, M., Liu, X., Gomez-Chamorro, A., **Chávez-Capilla, T.**, Ramette, A., Mestrot, A., Schläppi, K., Bigalke, M., 2021, Swiss Geoscience Meeting, University of Geneva, Switzerland
8. Guan, H., Caggia V., Coll-Crespi, M., Liu, X., Gomez-Chamorro, A., **Chávez-Capilla, T.**, Ramette, A., Mestrot, A., Schläppi, K., Bigalke, M., 2021, Eurosoil, Geneva, Switzerland
9. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Brandenburg, L., Hapfelmeier, S., Mestrot, A., 2021, One Health Summer School, University of Bern, Switzerland
10. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., 2021, Keystone Symposium "Harnessing the Microbiome for Disease Prevention and Therapy", U.S.
11. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., 2021, GCB Symposium 2021 – A Hybrid Academic Research Symposium, Bern, Switzerland
12. Mukherjee, M., **Chávez-Capilla, T.**, Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., 2021, ASM Young Researcher's Symposium, Bern, Switzerland

13. **Chávez-Capilla, T.**, Mukherjee, M., Coll-Crespi, M., Hapfelmeier, S., Mestrot, A., **2020**, Swiss Chemical Society Autumn Meeting, Bern, Switzerland
14. **Chávez-Capilla, T.**, Maher, W., Foster, S., **2019**, One Health Summer School, University of Bern, Switzerland
15. **Chávez-Capilla, T.**, Maher, W., Foster, S., **2017**, 6<sup>th</sup> International Symposium on Metallomics, Vienna, Austria
16. **Chávez-Capilla, T.**, Maher, W., Foster, S., **2017**, IAE Postgraduate Conference, University of Canberra, Australia
17. **Chávez-Capilla, T.**, Maher, W., Kelly, T., Foster, S., **2015**, 5<sup>th</sup> International Symposium on Metallomics, Beijing, China
18. **Chávez-Capilla, T.**, Beshai, M., Maher, W., Kelly, T., Foster, S., **2014**, 22<sup>nd</sup> Annual RACI Research and Development Topics Conference, Adelaide, Australia
19. **Chávez-Capilla, T.**, Maher, W., Kelly, T., Foster, S., **2014**, 9<sup>th</sup> SETAC Asia / Pacific Conference, Adelaide, Australia
20. León-Reyes, A., **Chávez-Capilla, T.**, Epifani, M., Palma, J., Díaz, R., **2013**, 34<sup>th</sup> Meeting of Spanish Electrochemical Research, Valencia, Spain
21. **Chávez-Capilla, T.**, Epifani, M., Arbiol, J., Andreu, T., Palma, J., Morante, J.R., Díaz, R., **2013**, 34<sup>th</sup> Meeting of Spanish Electrochemical Research, Valencia, Spain
22. Epifani, M., **Chávez-Capilla, T.**, Andreu, T., Arbiol, J., Palma, J., Morante, J.R., Díaz, R., **2013**, European Materials Research Society Spring Meeting, Strasbourg, France
23. León-Reyes, A., **Chávez-Capilla, T.**, Palma, J., Díaz, R., Epifani, M., **2013**, 2<sup>nd</sup> International Conference on Materials for Energy, Karlsruhe, Germany
24. **Chávez-Capilla, T.**, Epifani, M., Arbiol, J., Andreu, T., Palma, J., Morante, J.R., Díaz, R., **2012**, 11<sup>th</sup> International Conference on Nanostructured Materials, Rhodes, Greece
25. **Chávez-Capilla, T.**, Epifani, M., Andreu, T., Zamani, R., Palma, J., Arbiol, J., Siciliano, P., Morante, J.R., Díaz, R., **2011**, European Materials Research Society Spring Meeting, Nice, France

## **OUTREACH ACTIVITIES**

### Public engagement in science

1. [instagram.com/arsenolipid/](https://www.instagram.com/arsenolipid/), aimed to communicate interesting facts about arsenic to the public
2. **Chávez-Capilla, T.**, **2020**, 500 Women Scientists in the Pub, ONO Bern, Switzerland
3. **Chávez-Capilla, T.**, **2018**, Pint of Science, Canberra, Australia
4. **Chávez-Capilla, T.**, **2015**, University of Canberra Research Festival, Australia
5. **Chávez-Capilla, T.**, Vaquero, S., Isikli, S., Sanz, L., Marcilla, R., Palma, J., Díaz, R., **2011**, Madrid Science Week, Institute IMDEA Energy, Madrid, Spain
6. **Chávez-Capilla, T.**, Vaquero, S., Isikli, S., Sanz, L., Palma, J., Díaz, R., **2009**, Madrid Science Week, Institute IMDEA Energy, Madrid, Spain

### Knowledge transfer

7. **Chávez-Capilla, T.**, Mukherjee, M., Coll-Crespi, M., Deonarine, A., Bernier-Latmani, R., Hapfelmeier, S., Mestrot, A., **2021**, One Health Annual Meeting, University of Bern, Switzerland
8. **Chávez-Capilla, T.**, Mukherjee, M., Coll-Crespi, M., Deonarine, A., Bernier-Latmani, R., Hapfelmeier, S., Mestrot, A., **2020**, One Health Annual Meeting, University of Bern, Switzerland
9. **Chávez-Capilla, T.**, **2017**, IAE Seminar Series, University of Canberra, Australia
10. **Chávez-Capilla, T.**, Maher, B., Kelly, T., Foster, S., **2016**, SAGE Seminar Series, University of Canberra, Australia
11. **Chávez-Capilla, T.**, Ubrihien R., Monk, A., **2014**, SAGE Seminar Series, University of Canberra, Australia
12. **Chávez-Capilla, T.**, Foster, S., **2014**, University of Canberra, Australia
13. **Chávez-Capilla, T.**, Foster, S., **2014**, Postgraduate Corroboree, Kioloa, Australia

### Scientific art performances

14. Caralco, S., Rebetez, G., **Chávez-Capilla, T.**, Yu, S., von Sury, A., **2019**, *Endo-Canna-Drama* (short movie on the PhD thesis of Serafina Caralco), Film Making Marathon, University of Bern, Switzerland
15. O'Reilly-Nugent, A., **Chávez-Capilla, T.**, Bylemans, J., Shams F., Ubrihien, R., Hemming, K., Jeromson, M., Cross, Y., Farthing, E., **2018**, *The incredible and sad tale of snacky boy, the golden tickets and the very old ladies* (short movie on the PhD thesis of William Higginson), University of Canberra, Australia

16. **Chávez-Capilla, T.**, Bylemans, J., Shams F., Higgisson, W., Cross, Y., Hemming, K., Jeromson, M., **2018**, *The Wizard of R* (short movie on the PhD thesis of Andrew O'Reilly-Nugent), University of Canberra, Australia
17. **Chávez-Capilla, T.**, O'Reilly-Nugent, A., Ubrihien, R., Sweeney, M., Higgisson, W., Cross, Y., **2017**, *Jonas saves a fish* (short movie on the PhD thesis of Jonas Bylemans), University of Canberra, Australia
18. O'Reilly-Nugent, A., Bylemans, J., Ubrihien, R., **Chávez-Capilla, T.**, Sweeney, M., Hatton, S., **2017**, *Cod of Thrones: A study of fur and fire* (short movie on the PhD thesis of Alan Couch), University of Canberra, Australia
19. **Chávez-Capilla, T.**, Dusting A., Cross, Y., Bylemans, J., Sweeney M., Hatton, S., O'Reilly-Nugent, A., Higgisson, W., Couch, A., **2016**, *It's Friday!* (short movie on the PhD thesis of Rodney Ubrihien), University of Canberra, Australia
20. Dusting A., Ubrihien, R., Couch, A., **Chávez-Capilla, T.**, Bylemans, J., O'Reilly-Nugent, A., Hatton, S., Cortez, D., **2016**, *Sweeney Rock* (short movie on the PhD thesis of Margaret Sweeney), University of Canberra, Australia
21. Dusting A., Ubrihien, R., Bylemans, J., **Chávez-Capilla, T.**, Williams, D., **2015**, *When Macca met Sally* (on the PhD thesis of Sally Hatton), University of Canberra, Australia

#### Media coverage

22. [Interview for The Sargassum Podcast](#) (2021)
23. [PhD grad's gut feeling pays off](#) (2018) *The Monitor*, University of Canberra