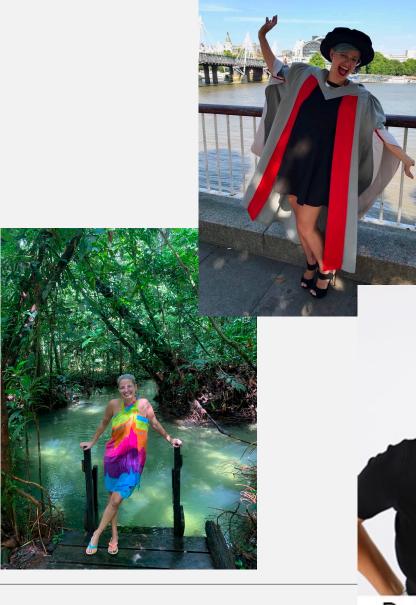
ual:

Who is Paula Corsini?

PgCert Jan/2023

Who am I?

I am Brazilian, she/her
PhD in Molecular biology
I work at GrowLab CSM





Dr. Paula Corsini

At CSM

Science Specialist

Technical staff

Theoretical and practical demos

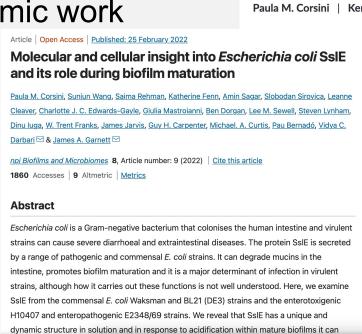
■ And many more roles...



ual:

As a Researcher

- Microscopist
- Microbiologist
- 10 years in uni + 5 years academic work
- STEM mentor
- Curious but systematic



Received: 23 August 2017 Revised: 31 October 2017 | Accepted: 3 November 2017 DOI: 10.1002/mbo3.567 WILEY MicrobiologyOpen ORIGINAL RESEARCH

Expression of the arsenite oxidation regulatory operon in Rhizobium sp. str. NT-26 is under the control of two promoters that respond to different environmental cues

Paula M. Corsini | Kenneth T. Walker | Joanne M. Santini

Sections

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Download PDF iemolithoautotrophic arsen-References dy various aspects of arsen-The three regulatory genes, View in article Full size image > rown in the presence or abtionary phase but not by the Fig. 5: Analysis of SsIE-dependent biofilm cription start sites upstream formation by E. coli W strain. two promoters, the houseendent promoter RpoE2.

Full size image >

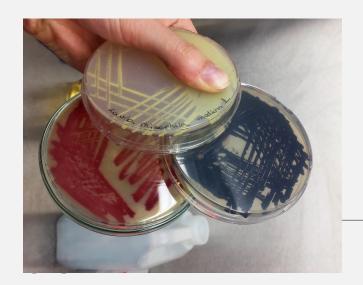
Fig. 6: EPS production in E. coli macrocolony

a W BL21 H10407 E2345/69



As Paula and Researcher at CSM

- Work with bacterial and Algae pigments
- Optimize production of new materials
- Try to consolidate partnerships to help students elevate their work
- Offer mentoring on scientific method and sometime contradict what tutors have advised sorry!
- My main challenge is to communicate science to artists







Pedagogy study

Strengthening teaching and learning in science through using different pedagogies

Unit 4: Using models and modelling techniques

- Using models in science teaching
- Illustrate effectively an abstract concept
- A challenge I face in communicating hard science with creatives



Strengthening teaching and learning in science through using different pedagogies

Unit 4: Using models and modelling techniques

| Figure 2 – Models in Key Stage 3 Science Models in science teaching can mainly be classified into two groups: | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scientific model (or consensus model) | Teaching model | Analogies are a subset of teaching models |
| This represents the accepted scientific view of a concept or idea: it provides a representation or an explanation for a complex process; it is a consensus view held by the scientific community; it can be a mathematical or a physical representation or an explanatory theory; it can help predict the behaviour of systems or events. | This is used to help a learner understand or visualise an idea, a process or a system: it is a visual or a physical representation; it is a teaching method to help pupils visualise something abstract or invisible; it helps explain the abstract idea or invisible structure to the learner. | Analogies are: based on an object or process very very familiar to pupils; often stated as 'it's rather like'; based on superficial similarities or parallels to the abstract idea; usually illustrative rather than explanatory; often 'stories'. |

