

Stefano Buratti

PERSONAL INFORMATION

Mail: stefano.buratti@unimi.it
 LinkedIn: <https://www.linkedin.com/in/burattistefano/>
 ORCID: <https://orcid.org/0000-0002-7090-8722>

POSITION

PhD student in “Molecular and Cellular biology” at the university of Milan in the Molecular Imaging of Plants laboratory of Professor Alex Costa.

- PhD Project : Harnessing the new emerging imaging technologies to uncover the role of Ca²⁺ signaling in plant nutrient homeostasis

WORK EXPERIENCE

Sett 2022 - Gen 2023 /
Sett 2023 - Gen 2024

Tutoring the master’s degree course of “Imaging in Living Cells” (Art. 45)

Nov 2020 - Actual

PhD student in “Molecular and Cellular biology”

At Laboratory of Plant Physiology, Biosciences Department, Università degli studi di Milano (Milan)

- Plant model organisms coltures (e.g. *Arabidopsis thaliana*, *Nicotiana benthamiana*)
- Bacterial cell cultures (e.g. *Escherichia coli*, *Agrobacterium tumefaciens*, *Saccharomyces cerevisiae*)
- Molecular Biology (e.g. PCR based techniques, cloning, bacterial transformation, plant infection and transfection, ColP)
- Microscopy (Widefield and Confocal) and Histology techniques
- Plant Physiology: Study of plant responses to environmental stresses

Activities and field Molecular Biology and Microscopy

Feb 2020 - Ott 2020

Medical Writer Intern

McCann Health Italia (Milan)

- Scientific events planning
- Tutoring of the event’s faculty
- Medical Writing review

Activities and field Communication and marketing

EDUCATION AND TRAINING

02/10/2017 - 16/10/2019

Master’s degree in “Molecular Biology of the Cell”

Mark: 110/110 with honours

Degree in “Molecular Biology of the Cell”, at Università degli studi di Milano, Milan

- Main skills acquired in Molecular and Cellular Biology, focused on plant model organisms

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B1	B2

Replace with language

SLAM certification from: University of Milan

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills

- Adept to Teamworking, ability acquired during the internship as Medical Writer and reinforced during my PhD.
- Excellent time management skills. Able to readily follow and develop multiple research lines in parallel.
- Lab management: During my PhD I acquired managing skills ranging from students tutoring, protocols optimization and lab materials stocks management.

Job-related skills

- Molecular Biology

Proficient in Genomics and Transcriptomics skills (DNA and RNA extraction, UV-Vis spectroscopy analysis, PCR, RT-PCR, qRT PCR, and molecular cloning) and Proteomics (protein extraction and purification, Co-IP, and enzymatic assays).

- Plant Colture

Experience in plant model organisms (*Arabidopsis thaliana* and *Oryza sativa*) growth and development and successive analyses (also growing chambers management and related phytosanitary treatments).

- Cell Biology and Microbiology

Adept in cell coltures (*Escherichia coli*, *Saccharomices cerevisiae* and *Agrobacterium tumefaciens*) and related techniques: Competence Acquisition, Bacterial Transformation, Plant Infection.

- Histology and Microscopy

Skilled in Histological analyses (tissue extraction, paraffin-based inclusion, microtome cutting, slides preparation and treatment, histochemical and immunohistochemical staining) and Microscopy (Optical and Confocal).

- 3D printing and electronics

Experienced in designing, prototyping, and printing apparatuses by means of 3D printing and electronics tailored for specific analytical requirements. These apparatuses have been used in my publications to grow, stimulate, and image plant tissues at different magnification.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Independent	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Experienced with the Office Suite
- Image processing programs (ImageJ, Napari and GIMP)
- Morphological and Phenotypic analyses programs (SmartGRAIN and P-TRAP)
- Technical Design (AutoCAD) and Three-dimensional Design (Autodesk Fusion)
- Base level proficiency with C++ programming language and Intermediate proficiency in Electronics

Driving licence B

ADDITIONAL INFORMATION

Publications
 Presentations

Publications:

Projects
 Conferences
 Seminars
 Honours and awards
 Memberships
 References
 Citations
 Courses
 Certifications

Grenzi M., Buratti S., Parmagnani A.S., Aziz I.A., Wojcik I.B., Resentini F., Šimura J., Doccula F.G., Alfieri A., Luoni L., Ljung K., Bonza M.C., Stavrinidou E. Costa A., Long-distance turgor pressure changes induce local activation of plant glutamate receptor-like channels. *Curr Biol.* 2023 Mar 27;33(6):1019-1035.e8. doi: 10.1016/j.cub.2023.01.042

Khan K., Cuong Tran H., Mansuroglu B., Önsell P., Buratti S., Schwarzländer M., Costa A., Rasmusson A.G., Van Aken O., Mitochondria-derived reactive oxygen species are the likely primary trigger of mitochondrial retrograde signaling in Arabidopsis. *Curr Biol.* 2024 Jan 22;34(2):327-342.e4. doi: 10.1016/j.cub.2023.12.005

Costa A., Resentini F., Buratti S., Bonza M.C., Plant Ca²⁺-ATPases: From biochemistry to signalling. *Biochim Biophys Acta Mol Cell Res.* 2023 Oct;1870(7):119508.

Badain R., Damineli D.S.C., Portes M.T., Feijó J., Buratti S., Tortora G., Neves de Oliveira H., Cesar Jr R.M., AMEBaS: Automatic Midline Extraction and Background Subtraction of Ratiometric Fluorescence Time-Lapses of Polarized Single Cells. *J Vis Exp.* 2023 Jun 23:(196). doi: 10.3791/64857.

Conferences:

- Plant Calcium Signaling Conference mini symposium 2021, PCS Online meeting. July 6th 2021
- Plant Calcium Signaling Conference (PCS2022), Università degli Studi di Milano, Milano, July 11th - 13th, 2022
- 16th International Meeting of the European Calcium Society (ECS2022), University College Cork (UCC), Cork City, Ireland, 21st - 25th August 2022
- SIBV Workshop on Plant Biology 2023, Centro residenziale Universitario di Bertinoro, Bertinoro (FC), Italy, 22-24 february 2023
- Congress of the Italian Society of Plant Biology, Università di Bari, Bari (BA), Italy, 11-14 september 2023
- SIBV Workshop on Plant Biology 2024, Centro residenziale Universitario di Bertinoro, Bertinoro (FC), Italy, 21-23 february 2024

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date 13/03/2024

Signature

