



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Bioscienze

Scientist- in - charge: Prof. Simona Masiero

ANDREA TAGLIANI**CURRICULUM VITAE****PERSONAL INFORMATION**

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|---------------|------------|
| Surname | TAGLIANI |
| Name | ANDREA |
| Date of birth | 14-02-1989 |

PRESENT OCCUPATION

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| Appointment | Structure |
| RESEARCH FELLOW | PLANTLAB, SANT'ANNA SCHOOL OF ADVANCED STUDIES, PISA |

EDUCATION AND TRAINING

| Degree | Course of studies | University | year of achievement of the degree |
|--------|--|-------------------------|-----------------------------------|
| Master | MOLECULAR AND CELL BIOLOGY | BOLOGNA | 2015 |
| Degree | BACHELOR IN BIOLOGICAL SCIENCES | BOLOGNA | 2012 |
| PhD | AGROBIOSCIENCES | SANT'ANNA SCHOOL - PISA | 2020 |
| Other | Bachelor Thesis - Internship - Laboratory of Plant Redox Biology | University of Bologna | 2012 |
| Other | Master Thesis - Internship - Laboratory of Plant Redox Biology | University of Bologna | 2014-2015 |
| Other | Erasmus Placement Programme, Institut de Biologie Physico-Chimique (IBPC) - Laboratoire de Biologie Moléculaire et Cellulaire des Eucaryotes | IBPC - Paris, FR | 04/2015-06/2015 |



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|-------|--|---|-----------------|
| Other | Scholarship, Topic: "Redox-based modifications in green organisms under stress" | Sant'Anna School of Advanced Studies, Pisa | 04/2016-09/2016 |
| Other | Visiting Scientist - Institut Sophia Agrobiotech, Group "SYMBIOSE" | Sophia Antipolis (FR) | 06/2017 |
| Other | Research fellow- "Second messengers involved in hypoxia signal transduction in Arabidopsis". | PlantLab - Sant'Anna School of Advanced Studies, Pisa | 10/2019-now |

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

| Date registration | of Association | City |
|-------------------|----------------|------|
| - | - | - |

FOREIGN LANGUAGES

| Languages | level of knowledge |
|-----------|--------------------|
| ENGLISH | ACADEMIC - C1 |

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

| Year | Description of award |
|------|----------------------|
| - | - |
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TRAINING OR RESEARCH ACTIVITY

Currently, I am employed as a Research Fellow at the PlantLab, Sant'Anna School of Advanced Studies (Pisa - Italy). My research interest are broad and over the last years I got the opportunity to learn different aspect in different field of plant biology.

More deeply, I have strong knowledge about signal transduction in Arabidopsis regarding Phosphorylation-mediated signaling and regulation of plant mineral nutrition. Moreover, I worked also with crop species as rice in the field of sugars and auxin sensing/signaling, and Medicago truncatula, mainly on the role of hypoxia and nitric oxide in symbiotic nodules formation.

On the other side, I have also good expertise on the biochemical characterization of plant



enzymes and their post-translational regulation through cysteine modifications.
 Noteworthy, over the last few years I had the opportunity to attend different conferences where I was able to confront myself with the best experts in different field of plant biology.

PROJECT ACTIVITY

| Year | Project |
|-----------------|---|
| 2012 | Bachelor Thesis Internship - Laboratory of Plant Redox Biology, Bologna - "The glutathionylation of glyceraldehyde 3-phosphate dehydrogenase from Arabidopsis thaliana (AtGAPDH) induces the formation of amyloid-like aggregates" |
| 2014-2015 | Master Thesis Internship - Laboratory of Plant Redox Biology, Bologna - "Structural insight into thiol-reactivity of GSNO reductase 1 from C. reinhardtii (CrGSNOR1)" |
| 04/2015-06/2015 | Erasmus Placement Programme, Institut de Biologie Physico-Chimique (IBPC) - Laboratoire de Biologie Moléculaire et Cellulaire des Eucaryotes, Paris, FR - "In vivo biochemical and functional characterization of GSNO reductase from C. reinhardtii" |
| 04/2016-09/2016 | Scholarship, PlantLab - Sant'Anna School of Advanced Studies, Pisa - "Redox-based modifications in green organisms under stress" |
| 2016-2019 | PhD student in Agrobiosciences, PlantLab - Sant'Anna School of Advanced Studies, Pisa - "Second messengers involved in hypoxia signal transduction in Arabidopsis" |
| 2020 | Research Fellow, PlantLab - Sant'Anna School of Advanced Studies, Pisa - "Second messengers involved in hypoxia signal transduction in Arabidopsis" |

PATENTS

| Patent |
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CONGRESSES AND SEMINARS

| Date | Title | Place |
|---------------------|--|------------------|
| 26-28 February 2015 | Plant Biology Winter School 2015 | Bertinoro (IT) |
| May 2015 | Journées de la Societe Francaise de Photosynthese, Ecole Normale Superieure | Paris (FR) |
| September 2017 | SIBV-SIGA Joint Congress, poster communication | CNR, Pisa (IT) |
| July 2018 | International Summer School on "Ion and water transport in plants", Campus Montpellier SupAgro, poster communication | Montpellier (FR) |
| June 2019 | Highlights in Nanoscience, National Enterprise for nanoScience and nanoTechnology (NEST) - poster communication | Pisa (IT) |



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| July 2019 | International Workshop on “Plant Membrane Biology”, University of Glasgow - poster communication | Glasgow (UK) |
| September 2019 | Joint Congress SBI-SIBV, University of Padua - oral communication | Padua, (IT) |

PUBLICATIONS

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| Books |
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| Articles |
| Nghi KN., Tondelli A., Valè G., Tagliani A. , Marè C., Perata P., Pucciariello C. (2019) Dissection of coleoptile elongation in japonica rice under submergence through integrated genome-wide association mapping and transcriptional analyses. <i>Plant Cell Environ.</i> 2019;1–12. |
| Pucciariello C., Boscari A., Tagliani A. , Brouquisse R., Perata P. (2019) Exploring legume-rhizobia symbiotic models for waterlogging tolerance. <i>Front. Plant Sci.</i> 2019. doi: 10.3389/fpls.2019.00578 |
| Colanero S., Tagliani A. , Perata P., Gonzali S. (2020) Alternative splicing in the Anthocyanin Fruit gene encoding an R2R3 MYB transcription factor affects anthocyanin biosynthesis in tomato fruits. <i>Plant Communications.</i> 2020. 1-1. doi: 10.1016/j.xplc.2019.100006 |
| Tagliani A. , Nguyet T.A., Novi G., Di Mambro R., Pesenti M., Sacchi GA., Perata P., Pucciariello C. (2020) The calcineurin β -Like interacting protein kinase CIPK25 regulates potassium homeostasis under low oxygen in Arabidopsis. <i>J. Exp. Bot.</i> 2020. doi: 10.1093/jxb/eraa004 |
| Nghi KN.*, Tagliani A.* , Mariotti L., Weits D., Perata P., Pucciariello C. (2020) Auxin is required for the long anaerobic coleoptile trait in rice. <i>New Phytologist.</i> doi:10.1111/nph.16781 |
| *equal contribution |

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| Congress proceedings |
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OTHER INFORMATION

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| Tagliani A. , Marchand CH., De Mia M., Bandini L., Sciabolini C., Trost P., Lemaire SD., Fermani S., Zaffagnini M. - Structural insight on thiol reactivity of GSNOR1 from the microalgae <i>Chlamydomonas reinhardtii</i> . |
| Research article in preparation |
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UNIVERSITÀ DEGLI STUDI DI MILANO

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: PISA, 29/06/2020

SIGNATURE