



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B - PNRR fellowship at **Dipartimento di Scienze Farmaceutiche**

Scientist- in - charge: Prof.ssa Elisabetta Vegeto

**Lien, Hong Tran**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Tran Hong
Name	Lien

### PRESENT OCCUPATION

Appointment	Structure
Postdoctoral reseacher	Bioscience Department, University of Milan

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
PhD	Life science	Kyungpook National University	08/2020
Master	Life science	Kyungpook National University	08/2017

### FOREIGN LANGUAGES

Languages	level of knowledge
English	C1

### AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
01-06/2022	Grants for foreign and Italian citizens living abroad awarded by the Italian government
2015-2018	KNU International Graduate Scholarship (KINGS)



## PROJECT ACTIVITY

Year	Project
07/2022-present	<p>Postdoctoral researcher at Bioscience department, University of Milan</p> <p>Project: "SOUP – Signaling the Organelle Unfolded Protein Response"</p> <p>Investigating the molecular details of newly discovered chloroplast and mitochondria unfolded protein response (UPR) pathway in Arabidopsis in abiotic stress, upon the accumulation of misfolded protein in the two organelles.</p>
01/2022-06/2022	<p>Postdoctoral researcher at Bioscience department, University of Milan granted by MAECI</p> <p>Project: "SOUP – Signaling the Organelle Unfolded Protein Response"</p>
09/2020-12/2021	<p>Postdoctoral researcher at School of Life Science and Biotechnology department, Kyungpook National University</p> <p>Project: Overexpressing gene <i>osCHLH</i> into the rice plant to increase the iron deficiency resistance</p> <p>To test stress resistance of transgenic rice plants to Fe deficiency, phenotype of wild type (WT) and <i>AtCHLH</i>-expressing transgenic rice were compared under Fe-sufficient and -deficient conditions by measuring growth parameters, chlorophyll content, and photosynthetic efficiency. Examining how porphyrin levels are regulated to overcome Fe deficiency stress conditions. And how plants regulate Fe homeostasis and Fe translocation during Fe deficiency by analyzing expression profiles of genes involved in Fe transporter and transcript factor.</p>
09/2017-08/2020	<p>Research in Doctoral program at School of Life Science, Kyungpook National University</p> <p>Project: Overexpressing gene <i>osCHLH</i> into the rice plant to increase the iron deficiency resistance</p> <p>Created the homozygous overexpressing gene <i>osCHLH</i> in rice plants. The effect of overexpressing <i>osCHLH</i> in the porphyrin metabolites, porphyrin-involving gene expression, Mg chelatase enzyme activity were examined. The phenotype of transgenic plant under different nutrient conditions was investigated.</p>
01/2018-09/2019	<p>Research in Doctoral program at School of Life Science, Kyungpook National University</p> <p>Responses in transgenic rice (<i>Oryza sativa</i>) expressing <i>Bradyrhizobium japonicum</i> Fe-chelatase (BjFeCh) after treatment with acifluorfen (AF), which is known as protoporphyrinogen oxidase's inhibitor.</p>
01/2016-09/2017	<p>Research in Master &amp; Doctoral program at School of Life Science, Kyungpook National University</p> <p>Project: "Effect of norflurazon and oxyfluorfen on porphyrin biosynthesis and carotenoid biosynthesis in rice plant"</p> <p>Examining the porphyrin biosynthesis and carotenoid biosynthesis in rice plant treated by norflurazon and oxyfluorfen.</p>
9/2015-12/2016	<p>Research in Master program at School of Life Science, Kyungpook National University</p> <p>Project: "The effects of light quality on growth characteristics and porphyrin biosynthesis of rice seedlings"</p> <p>Measure the growth characteristic plant height, biomass in rice seedling under specific wavelengths of LED. Investigated the metabolic regulation of the porphyrin biosynthetic pathway and the relation between plant growth and porphyrin biosynthesis in plant in the different light quality.</p>



## CONGRESSES AND SEMINARS

Date	Title	Place
04/11/2019- 06/11/2019	The 17th International Symposium on Rice Functional Genomics (ISRFG2019)	Taipei, Taiwan
28/11/2018- 30/11/2018	The 41st annual meeting of the Molecular Biology Society of Japan	Yokohama, Japan
06/12/2017- 09/12/2017	ConBio2017 Consortium of Biological science 2017	Kyoto, Japan
30/11/2016- 2/12/2016	The 39th annual meeting of the Molecular Biology Society of Japan	Yokohama, Japan

## Articles in reviews

**Lien Hong Tran**<sup>1</sup>, Dong-gi Lee<sup>1</sup>, Sunyo Jung (2021). Light quality-dependent regulation of photoprotection and antioxidant properties in rice seedlings grown under different light-emitting diodes. *PHOTOSYNTHETICA* 59 (1): 12-22, 2021

Bao Quoc Tran<sup>1</sup>, **Lien Hong Tran**<sup>1</sup>, So-Jin Kim, Sunyo Jung (2019). Altered regulation of porphyrin biosynthesis and protective responses to acifluorfen-induced photodynamic stress in transgenic rice expressing *Bradyrhizobium japonicum* Fe-chelatase. *Pesticide Biochemistry and Physiology*, Vol 159, Pages 1-8.

Park Jun Heum<sup>1</sup>, **Lien Hong Tran**, Sunyo Jung (2017). Perturbations in the Photosynthetic Pigment Status Result in Photooxidation-Induced Crosstalk between Carotenoid and Porphyrin Biosynthetic Pathways. *Front. Plant Sci.* 8:1992.

Park Jun Heum, **Lien Hong Tran**, Sunyo Jung (2017). A protoporphyrinogen oxidase gene expression influences responses of transgenic rice to oxyfluorfen. *Biol Plant* 61, 659–666.

**Lien Hong Tran**, Sunyo Jung (2017). Effects of Light-Emitting Diode Irradiation on Growth Characteristics and Regulation of Porphyrin Biosynthesis in Rice Seedlings. *Int. J. Mol. Sci.* 2017, 18(3), 641.

**Lien Hong Tran**<sup>1</sup>, Jin-Gil Kim, Sunyo Jung (2023). Expression of the Arabidopsis Mg-chelatase H subunit alleviates iron deficiency-induced stress in transgenic rice. *Front. Plant Sci.* (Accepted)

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.

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Place and date: Milano, 28/02/2023