



# Guillaume Dubeaux

PhD, Plant Cell Biology

ORCID

Connecting Research  
and Researchers



1989/06/04 (Age: 30)  
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## Skills

- Biochemistry: IP, WB, protein production and purification
- Microscopy: confocal microscopy, spinning-disk microscopy, image analysis
- Molecular biology: gene editing (CRISPR/Cas9), common techniques (primer design, RT-qPCR, cloning)
- Programming: LaTeX, R, Python, Swift, Java
- Leadership / Mentoring

## Hobbies

- Photography
- Cooking
- Hiking
- Website development

## Research experience

### Post-doctoral EMBO fellow, Plant Biology

University of California, San Diego (UCSD), La Jolla, California, USA. September 2017 to now

- PI: Dr. Julian Schroeder
- Project: Understanding how plants interact with their environment in the context of climate change

### Ph.D. student and post-doctoral associate, Plant Cell Biology

Institute for Integrative Biology of the Cell (I2BC), Gif-sur-Yvette (Paris), France. October 2013 to July 2017

- PI: Dr. Gregory Vert
- Project: Molecular mechanisms driving the dynamics and the ubiquitination of the metal transporter IRT1 in *Arabidopsis*

### Master student, Plant Cell Biology

Institute of Plant Sciences (ISV), Gif-sur-Yvette (Paris), France. January to June 2013

- PI: Dr. Gregory Vert
- Project: Ubiquitin-mediated endocytosis of the metal transporter IRT1 in *Arabidopsis thaliana*

## Fellowships and Awards

### EMBO long-term fellowship

Awarded in July 2018 until October 2020

\* The EMBO Long-Term Fellowships are awarded for a period of up to two years and support post-doctoral research visits to laboratories throughout Europe and the world.

### PhD fellowship

Awarded in October 2013 until September 2016 by the Ministère de la Recherche et de l'Enseignement Supérieur, France

## Education

### Ph.D., Biology (with Honors)

Paris-Saclay University, Doctoral School n°567, Orsay (Paris), France. October 2013 to December 2016

### Master of Sc., Integrative Biology and Physiology (with Honors)

Pierre et Marie Curie University (UPMC), Paris, France. September 2011 to June 2013

### Bachelor of Sc., Life Sciences (with Honors)

Pierre et Marie Curie University (UPMC), Paris, France. September 2008 to June 2011

## Publications

- ▶ **Dubeaux G.**, Schroeder J. (2019) Towards a better understanding of signaling networks in plants: yeast has the power! **The EMBO Journal**, e102478
- ▶ Hauser, F., Ceciliato, P., Lin, Y., Guo, D., Gregerson, J., Abbasi, N., Youhanna, D., Park, J., **Dubeaux, G.**, Shani, E., Poomchongkho, N., Schroeder, J. (2019). A seed resource for screening functionally redundant genes and isolation of new mutants impaired in CO<sub>2</sub> and ABA responses. **Journal of Experimental Botany** 70(2), 641-651.
- ▶ Zhang, J., Ceciliato, P.H.O., Takahashi, Y., Schulze, S., **Dubeaux, G.**, Hauser, F., Azoulay-Shemer, T., Töldsepp, K., Kollist, H., Rappel, W., Schroeder, J. (2018). Insights into the Molecular Mechanisms of CO<sub>2</sub>-Mediated Regulation of Stomatal Movements. **Current Biology** 28(23), R1356-R1363.
- ▶ **Dubeaux, G.**, Neveu, J., Zelazny, E., Vert, G. (2018). Metal Sensing by the IRT1 Transporter-Receptor Orchestrates Its Own Degradation and Plant Metal Nutrition. **Molecular Cell** 69(6), 953-964.e5.
- ▶ **Dubeaux, G.**, Vert, G. (2017). Zooming into plant ubiquitin-mediated endocytosis. **Current Opinion in Plant Biology** 40(), 56-62.
- ▶ Wild, M., Davière, J., Regnault, T., Sakvarelidze-Achard, L., Carrera, E., Lopez Diaz, I., Cayrel, A., **Dubeaux, G.**, Vert, G., Achard, P. (2016). Tissue-Specific Regulation of Gibberellin Signaling Fine-Tunes Arabidopsis Iron-Deficiency Responses. **Developmental Cell** 37(2), 190-200.
- ▶ **Dubeaux, G.**, Zelazny, E., Vert, G. (2015). Getting to the root of plant iron uptake and cell-cell transport: Polarity matters! **Communicative & Integrative Biology** 8(3), e1038441.
- ▶ Barberon, M., **Dubeaux, G.**, Kolb, C., Isono, E., Zelazny, E., Vert, G. (2014). Polarization of IRON-REGULATED TRANSPORTER 1 (IRT1) to the plant-soil interface plays crucial role in metal homeostasis. **Proceedings of the National Academy of Sciences** 111(22), 8293-8298.

## Communications

- ▶ **Dubeaux G.**, seminar, CSHL. Cold Spring Harbor, NY, USA. March 2018
- ▶ **Dubeaux G.**, seminar, UCSD. San Diego, CA, USA. December 2017
- ▶ **Dubeaux G.**, seminar, UCSD. San Diego, CA, USA. March 2017
- ▶ **Dubeaux G.**, seminar, Carnegie Institution for Science. Stanford, CA, USA. March 2017
- ▶ **Dubeaux G.**, seminar, European Network for Plant Endomembrane Research (ENPER). Bordeaux, France. August 2016
- ▶ **Dubeaux G.**, seminar, Doctoral school Meeting. Orsay (Paris), France. November 2015
- ▶ **Dubeaux G.**, seminar, ENPER. Leeds, UK. August 2015
- ▶ **Dubeaux G.**, seminar, Cell Biology Department of the I2BC. Orsay (Paris), France. March 2015
- ▶ **Dubeaux G et al.**, poster, Doctoral school Meeting. Orsay (Paris), France. November 2014
- ▶ **Dubeaux G et al.**, poster, Doctoral school Meeting. Orsay (Paris), France. November 2013

## Related activities

- ▶ **Peer-reviewing** of articles in high impact factor journals:
  - Developmental Cell
  - PNAS (2)
  - The EMBO Journal
  - The Plant Cell
  - eLife
  - The Plant Journal
- ▶ La Jolla Mesa Plant Biology Talks **organizer** and **host** (October 2018 to now)
- ▶ **Representative** roles:
  - ▶ Elected to the lab board (2013-2015)
  - ▶ Elected to the doctoral school council (2013-2015)

## References

- **Dr. Julian Schroeder**  
[jischroeder@ucsd.edu](mailto:jischroeder@ucsd.edu), 858-534-7759
- **Dr. Gregory Vert**  
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- **Dr. Yvon Jaillais**  
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