



Aurélien Devillars

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EDUCATION AND TRAINING

Corso di dottorato in Crop Science

Università degli Studi di Padova, Dipartimento DAFNAE [1 Feb 2023 – 30 Jan 2026]

Address: Viale dell'Università, 16, 35020 Legnaro (Italy)

Corso di Laurea Magistrale in Molecular Biology

Università degli Studi di Padova [Oct 2021 – Jul 2022]

City: Padova | Country: Italy

Magistère Européen de Génétique

Université Paris-Cité [Sep 2019 – Jul 2022]

City: Paris | Country: France | **Field(s) of study:** Natural sciences, mathematics and statistics

WORK EXPERIENCE

Research internship (Master thesis): The mitochondrial DNA binding protein Whirly2 is involved in salt stress resistance in *Arabidopsis thaliana*.

Pr. Michela Zottini [Jan 2022 – Jul 2022]

Address: Via Ugo Bassi, 58b, 35131 Padova PD Università degli Studi di Padova, Dipartimento di Biologia (Italy)

- Plant culture; semination in sterile conditions; plant crossing
- DNA gel migration
- Polymerase Chain Reaction
- Confocal and epifluorescence microscopy
- Bacteria culture, plasmid extraction in *E. coli*
- Plasmid design for *Agrobacterium tumefaciens*-mediated plant transformation

LANGUAGE SKILLS

Mother tongue(s): Français

Other language(s):

English

LISTENING C1 READING C1 WRITING C1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Italian

LISTENING C1 READING C1 WRITING C1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING B2 READING C1 WRITING C1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Japanese

LISTENING B1 READING B1 WRITING B1
SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Excel / Microsoft Powerpoint / Microsoft Word / Microsoft Office / GIMP / Photoshop / Script Bash / Bash shell and command line programmation / R-Programming / notions de base en python

HONOURS AND AWARDS

[10 Oct 2024] Società Italiana di Genetica Agraria

Premio "Congresso SIGA 2024"

Award received for the presentation of my poster entitled "Preliminary steps of a protocol to isolate transcription factors using CRISPR-dCas9 system" at the SIGA 2024 Congress (Bologna).

PUBLICATIONS

[2023]

Lipidome remodeling in response to nutrient replenishment requires the tRNA modifier Deg1/Pus3 in yeast

lipid droplets; lipidome; pseudouridine; storage lipids; tRNA; yeast.

Matos GS, Vogt L, Santos RS, et al. Lipidome remodeling in response to nutrient replenishment requires the tRNA modifier Deg1/Pus3 in yeast. *Mol Microbiol.* 2023;120(6):893-905.

[2024]

Not Only Editing: A Cas-Cade of CRISPR/Cas-Based Tools for Functional Genomics in Plants and Animals

CRISPR/Cas; CRISPR/Cas13; CRISPR/Cas9; NGS; dCas9; gene regulation; imaging; viruses.

Devillars A, Magon G, Pirrello C, et al. Not Only Editing: A Cas-Cade of CRISPR/Cas-Based Tools for Functional Genomics in Plants and Animals. *Int J Mol Sci.* 2024;25(6):3271. Published 2024 Mar 13.

[2024]

The Transcriptional Landscape of Berry Skin in Red and White PIWI ("Pilzwiderstandsfähig") Grapevines Possessing QTLs for Partial Resistance to Downy and Powdery Mildews

PIWI; RNA-seq; exocarp; grapevine; resistance.

Scariolo F, Gabelli G, Magon G, et al. The Transcriptional Landscape of Berry Skin in Red and White PIWI ("Pilzwiderstandsfähig") Grapevines Possessing QTLs for Partial Resistance to Downy and Powdery Mildews. *Plants (Basel).* 2024;13(18):2574.

[2024]

How Helpful May Be a CRISPR/Cas-Based System for Food Traceability?

CRISPR/Cas system; genome editing; molecular traceability; new breeding techniques; new genetic techniques.

Farinati S, Devillars A, Gabelli G, et al. How Helpful May Be a CRISPR/Cas-Based System for Food Traceability?. *Foods.* 2024;13(21):3397. Published 2024 Oct 25.

CONFERENCES & SEMINARS

[4 Sep 2023 – 8 Sep 2023] Bari

Poster presentation at SIGA 2023 Congress

Poster title: Developing a protocol to isolate transcription factors bound to a specific DNA locus from the extracted chromatin of grapevine protoplasts using CRISPR-dCas9 system

[10 Sep 2024 – 10 Sep 2024] Bologna

Poster presentation at SIGA 2024 Congress

Preliminary steps of a protocol to isolate transcription factors bound to a specific DNA locus in grapevine using CRISPR-dCas9 system.

[7 Jul 2024 – 11 Jul 2024] Logroño, Spain

Poster presentation at the OpenGPB 2024 congress

Preliminary steps of a protocol to isolate transcription factors bound to a specific DNA locus in grapevine using CRISPR-dCas9 system.