


## Azeddine Si Ammour

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### EDUCATION

- |   |                                     |           |
|---|-------------------------------------|-----------|
| ▪ <b>MBA</b>                                    | SSE Stockholm, Sweden               | 2017-2018 |
| ▪ <b>PhD</b> ( <i>doctor rerum naturalium</i> ) | University of Fribourg, Switzerland | 1997-2002 |
| ▪ <b>M.Sc.</b> (Diploma in Biology)             | University of Geneva, Switzerland   | 1995-1997 |
| ▪ <b>B.Sc.</b> in Biology                       | University of Geneva, Switzerland   | 1995      |

### RESEARCH EMPLOYMENT

- |                                  |   |              |
|----------------------------------|---|--------------|
| ▪ <b>Group leader</b>            | Fondazione Edmund Mach, Italy   | 2007-present |
|                                  | Research leader in plant functional genomics and epigenetics. Expertise in small RNA and RNA silencing. |              |
| ▪ <b>Postdoctoral Researcher</b> | Friedrich Miescher Institute (FMI), Basel, Switzerland  | 2002-2007    |
|                                  | Researcher in plant epigenetics. Pioneering work in miRNAs in plants.                                   |              |
| ▪ <b>Assistant-Lecturer</b>      | University of Fribourg, Switzerland   | 1997-2002    |
|                                  | Research and teaching activities in plant molecular biology and phytochemistry.                         |              |

### LIST OF 10 MOST IMPORTANT PUBLICATIONS

- Moser, M., Asquini, E., Miolli, G.V., Weigl, K., Hanke, M.V., Flachowsky, H., **Si-Ammour, A.** (2020). "The MADS-box gene *MdDAM1* controls growth cessation and bud dormancy in apple". *Frontiers in Plant Science* 11, 1003. <http://dx.doi.org/10.3389/fpls.2020.01003>
- Brilli, M., Asquini, E., Moser, M., Bianchedi, P.L., Perazzolli, M., and **Si-Ammour, A.** (2018). "A multi-omics study of the grapevine-downy mildew (*Plasmopara viticola*) pathosystem unveils a complex protein coding- and noncoding-based arms race during infection". *Scientific Reports*, 8: 757. <http://dx.doi.org/10.1038/s41598-018-19158-8>
- Surbanovksi, N., Brilli, M., Moser, M., and **Si-Ammour, A.** (2016) "A highly specific microRNA-mediated mechanism silences LTR retrotransposons of strawberry" *The Plant Journal*, 85:70-82. <http://dx.doi.org/10.1111/tpj.13090>
- Wolters, P.J., Schouten, H.K., Velasco, R., **Si-Ammour, A.** and Baldi, P. (2013) "Evidence for regulation of columnar habit in apple by a putative 2OG-Fe(II) oxygenase". *New Phytologist* 200:993-999. <http://dx.doi.org/10.1111/nph.12580>
- Si-Ammour, A.**, Windels, D., Arn-Boulidoires E., Kutter, C., Ailhas, J., Meins, F., and Vazquez, F. (2011) "miR393 and secondary siRNAs regulate expression of the TIR1/AFB2 auxin receptor clade and auxin-related development of Arabidopsis leaves". *Plant Physiology* 157:683-691. <http://dx.doi.org/10.1104/pp.111.180083>
- Velasco, R. et al. (2010) "The apple genome emergence of the species and its domestication". *Nature Genetics* 42:833-839. <http://dx.doi.org/10.1038/ng.654>
- Velasco, R. et al. (2007) "A high quality draft consensus sequence of the genome of a heterozygous grapevine variety". *PLoS ONE* 2:e1326. <http://dx.doi.org/10.1371/journal.pone.0001326>
- Kutter, C., Schob, H., Stadler, M., Meins, F. and **Si-Ammour, A.** (2007) "microRNA-mediated regulation of stomatal development in Arabidopsis". *The Plant Cell* 19:2417-2429. <http://dx.doi.org/10.1105/tpc.107.050377>
- Si-Ammour, A.**, Mauch-Mani, B. and Mauch, F. (2003) "Quantification of induced resistance against *Phytophthora* species

expressing GFP as a vital marker:  $\beta$ -aminobutyric acid but not BTH protects potato and Arabidopsis from infection". *Molecular Plant Pathology* 4:237–248. <http://dx.doi.org/10.1046/j.1364-3703.2003.00168.x>

10. **Si-Ammour, A.\***, Roetschi, A.\*, Belbahri, L., Mauch, F. and Mauch-Mani, B. (2002) "Characterization of an Arabidopsis-Phytophthora pathosystem: resistance requires a functional PAD2 gene and is independent of salicylic acid-, ethylene- and jasmonic acid-signaling". *Plant Journal* 28:293-395. <http://dx.doi.org/10.1046/j.1365-3113.2001.01148.x>

## ADDITIONAL RESEARCH ACHIEVEMENTS

### ▪ Book chapters and reviews

Balmer, A., De Paoli, E., **Si-Ammour, A.**, Mauch-Mani, B., and Balmer, D. (2017). Signs of silence: small RNAs and antifungal responses in *Arabidopsis thaliana* and *Zea mays*. In Plant Engineering, S. Jurić, ed (Rijeka: InTech), pp. Ch. 02.

Mauch, F., Torche, S., Schläppi, K., Branciard, L., Belhaj, K., Parisy, V., **Si-Ammour**, "Phytophthora brassicae as a pathogen of Arabidopsis". (2009) In: Oomycete Genetics and Genomics: Diversity, Plant and Animal Interactions, and Toolbox, Lamour K. and Kamoun S, eds. John Wiley & Sons. Inc. New Jersey.

Meins, F., Si-Ammour, A. and Blevins, T. (2005) RNA silencing systems and their relevance to plant development. Annual Review of Cell and Developmental Biology 21:297-318.

### ▪ Grants

Recipient of the Euregio GRANT (450 K€)	2022-2025
Recipient of a grant funded by the CARITRO foundation (150 K€)	2018-2020
Coordinator and recipient of grant "TranscrApple" funded by the province of Trento (750 K€)	2013-2017
Recipient of two post-doctoral Marie-Curie Co-Fund Fellowships (600 K€)	2010-2014
Novartis Postdoctoral fellowship	2002-2007
Partner in the FP5 grant "Gene Silencing in Transgenic Plants" (96.0250 and 00.0224)	2002-2005
Swiss National Foundation (SNF) doctoral fellowship (Grant No. 31-50519)	1997-2001
Novartis <i>Phytophthora</i> consortium doctoral fellowship	1998-2001

### ▪ Patents

- Patent WO/2015/165535 (2015) "miRNAs in therapeutics". Inventors: **Si-Ammour A.**, Viola, R., Cavaleri, D., Rizzetto A.
- Patent EP2754711-A1 (2013) "New isolated polynucleotide to control branch and trunk growth in apple trees or ornamental trees". Inventors: Wolters P. J., Baldi P., Schouten H., Velasco R., **Si Ammour A.**
- Patent WO2006029813A1 (2007) "RNA probes". Inventors: **Si-Ammour A.**, Blevins T. and Meins F.

### ▪ Peer-review experience

- Referee for several scientific journals: Science, The EMBO Journal, Molecular Plant Microbe Interactions (MPMI), New Phytologist, Plant Cell, Plant Journal, Plant Molecular Biology Reporter, RNA Biology, BMC Genomics, Plant Molecular Biology, Plant Molecular Biology reporter, Plant Physiology, Frontiers in Plant Sciences, Scientific reports.
- Reviewer and panel member of grant proposals submitted to the European Union, governmental agencies (Chile, Italy, France ANR)
- Guest editor for Frontiers on topic "RNAi based pesticides" (<http://bit.ly/2k1uRjT>)

## LANGUAGES (SPOKEN and WRITTEN)

French (native language), English (fluent), Italian (fluent), Arabic (fluent), Berber (fluent), German (very good), Swedish (basic).

Consapevole che ai sensi dell'art. 47 DPR 28/12/2000, n. 445 le dichiarazioni false, la falsità in atti l'uso di atti falsi, comportano l'applicazione delle sanzioni penalipreviste dall'art. 76 deò DPR 445/2000.

**Data:** San Michelle All'Adige, 01/12/20022

**Firma:** Azeddine SI AMMOUR

