

**PUBLICATIONS**  
**ELIDE FORMENTIN**

2018

**Formentin E.\***, Sudiro C., Perin G., Riccadonna S., Barizza E., Baldoni E., Lavezzo E., Stevanato P., Sacchi G.A., Fontana P., Toppo S., Morosinotto T., Zottini M. and Lo Schiavo F. "Transcriptome and cell physiological analyses in different rice cultivars provide new insights into adaptive and salinity stress responses" *Front. Plant Sci.* (2018) 9:204. doi: 10.3389/fpls.2018.00204. (\* corresponding author). IF=4.291. Ranking: 20/212 (Plant Sciences)

2017

Stevanato P., Broccanello C., Pajola L., Biscarini F., Richards C., Panella L., Hassani M., **Formentin E.\***, Chiodi C., Concheri G., Heidari B. "Targeted Next-Generation Sequencing Identification of Mutations in Disease Resistance Gene Analogs (RGAs) in Wild and Cultivated Beets". *Genes (Basel)*. (2017) 8(10)pii: E264. doi:10.3390/genes8100264. (\* corresponding author) IF=3.6. Ranking: 44/167 (Genetics & Heredity)

**Formentin E.** "Salt Tolerance in Crops: Not Only a Matter of Gene Regulation. *Plant Physiol.* (2017) 174(3):1287-1288. doi: 10.1104/pp.17.00747. IF=6.456. Ranking: 11/212 (Plant Sciences)

Teardo E., Carraretto L., Wagner S., **Formentin E.**, Behera S., De Bortoli S., Larosa V., Fuchs P., Lo Schiavo F., Raffaello A., Rizzuto R., Costa A., Schwarzländer M., Szabo I. "Physiological characterization of a plant mitochondrial calcium uniporter in vitro and in vivo". *Plant Physiol.* (2017) 173(2):1355-1370. pii: pp.01359.2016. doi: 10.1104/pp.16.01359. IF=6.456. Ranking: 11/212 (Plant Sciences)

Bianco L., Riccadonna S., Lavezzo E., Falda M., **Formentin E.**, Cavalieri D., Toppo S., Fontana P. "Pathway Inspector: a pathway based web application for RNAseq analysis of model and non-model organisms". *Bioinformatics.* (2017) Oct 6. 33(3):453-455. IF=7.307. Ranking: 4/78 (Biochemical Research Methods)

2016

Falda M., Lavezzo E., Fontana P., Bianco L., Berselli M., **Formentin E.**, Toppo S. "Eliciting the Functional Taxonomy from protein annotations and taxa". *Sci Rep.* (2016) Aug 18;6:31971. doi: 10.1038/srep31971. IF=4.259. Ranking: 10/64 (Multidisciplinary Sciences)

Carraretto L., Checchetto V., De Bortoli S., **Formentin E.**, Costa A., Szabò I.\*, Teardo E.\* "Calcium flux across plant mitochondrial membranes: possible molecular players" Mini Review, *Front. Plant Sci. - Plant Physiol* (2016), vol. 7, 354, ISSN: 1664-462X, DOI: 10.3389/fpls.2016.00354 IF=4.291 Ranking 20/212 (Plant Science)

2015

Teardo E., Carraretto L., De Bortoli S., Costa A., Behera S., Wagner R., Lo Schiavo F., **Formentin E.\*** and Szabò I\*. "Alternative splicing-mediated targeting of the plant glutamate receptor AtGLR3.5 to mitochondria affects organelle morphology" *Plant Physiol.* (2015); 167(1):216-227. ISSN 0032-0889. Published by American Society of Plant Biologists, USA (\* share the **last authorship**) IF=6.280. Ranking: 8/209 (Plant Sciences)

2013

Carraretto L., **Formentin E.**, Teardo E., Checchetto V., Tomizioli M., Morosinotto T., Giacometti G.M., Finazzi G., Szabó I. "A Thylakoid-Located Two-Pore K<sup>+</sup> Channel Controls Photosynthetic Light Utilization in Plants". *Science* (2013), 342(6154):114-118. ISSN 0036-8075. Published by AAAS, USA. IF= 31.477. Ranking: 2/55 (Multidisciplinary Sciences)

Checchetto V., Teardo E., Carraretto L., **Formentin E.**, Bergantino E., Giacometti G.M., Szabo I. "Regulation of photosynthesis by ion channels in cyanobacteria and higher plants". *Biophysical chemistry* (2013), 182:51-57. ISSN: 0301-4622. Published by Elsevier B.V., The Netherlands. IF=2.319. Ranking: 44/74 (Biophysics)

Checchetto V., **Formentin E.**, Carraretto L., Segalla A., Giacometti G.M., Szabo I., Bergantino E. "Functional characterization and determination of the physiological role of a calcium-dependent potassium channel from cyanobacteria". *Plant Physiol.* (2013), 162(2):953-964. ISSN 0032-0889. Published by American Society of Plant

Biologists, USA. IF=7.394. Ranking: 6/199 (Plant Sciences)

## 2011

Teardo E.\*, **Formentin E.\***, Segalla A., Giacometti G.M., Marin O., Zanetti M., Lo Schiavo F., Zoratti M, Szabò I. "Dual localization of plant glutamate receptor AtGLR3.4 to plastids and plasmamembrane" *Biochim Biophys Acta - Bioenergetics*. (2011), 1807:359–367. ISSN: 0005-2728. Published by Elsevier Science B.V., The Netherlands. (\* denote **equal** contribution). IF=4.843. Ranking: 13/74 (Biophysics)

## 2010

De Marchi U., Checchetto V., Zanetti M., Teardo E., Soccio M., **Formentin E.**, Giacometti G. M., Pastore D., Zoratti M. and Szabò I. "ATP-sensitive cation-channel in wheat (*Triticum durum* Desf.): identification and characterization of a plant mitochondrial channel by patch-clamp" *Cell Physiol Biochem*. (2010), 26:975-982. ISSN: 1015-8987. Published by Karger, Switzerland. IF=3.585. Ranking: 18/78 (Physiology)

Teardo E., Segalla A., **Formentin E.**, Zanetti M., Marin O., Giacometti G.M., Lo Schiavo F., Zoratti M., Szabò I. "Characterization of a plant glutamate receptor activity." *Cell Physiol Biochem*. (2010), 26:253-262. ISSN: 1015-8987. Published by Karger, Switzerland. IF=3.585. Ranking: 18/78 (Physiology)

## 2009

Fontana P., Cestaro A., Velasco R., **Formentin E.**, Toppo S. "Rapid annotation of anonymous sequences from genome projects using semantic similarities and weighting scheme in Gene Ontology." *PLoS ONE* (2009), 4: e4619. eISSN: 1932-6203. Published by Public Library Science, USA. IF=4.351. Ranking: 10/76 (Biology)

De Michele R.\*, **Formentin E.\***, Lo Schiavo F. "Legume leaf senescence. A transcriptional analysis." *Plant Signaling & Behavior* (2009), 4: 319-320. ISSN: 1559-2324. Published by Taylor & Francis Group (\* denote **equal** contribution).

De Michele R.\*, **Formentin E.\***, Todesco M., Toppo S., Carimi F., Zottini M., Barizza E., Ferrarini A., Delledonne M., Fontana P., Lo Schiavo F. "Transcriptome analysis of *Medicago truncatula* leaf senescence: similarities and differences in metabolic and transcriptional regulations as compared to *Arabidopsis*, nodule senescence, and nitric oxide signalling." *New Phytol.* (2009), 181: 563-575. ISSN 1469-8137. Published by Wiley-Blackwell, England. (\* denote **equal** contribution). IF=6.033. Ranking: 8/139 (Plant Sciences)

## 2008

Zottini M., Barizza E., Costa A., **Formentin E.**, Ruberti C., Carimi F. and Lo Schiavo F. "Agroinfiltration of grapevine leaves for fast transient assays of gene expression and for long-term production of stable transformed cells", *Plant Cell Rep.* (2008), 27: 845-853. ISSN: 0721-7714. Published by Springer Verlag. The Netherlands. IF=1.946. Ranking: 44/153 (Plant Sciences)

Bregante M., Yang Y., **Formentin E.**, Carpaneto A., Schroeder J.I., Gambale F., Lo Schiavo F. and Costa A. "KDC1, a carrot Shaker-like potassium channel, reveals its role as a silent regulatory subunit when expressed in plant cells", *Plant Mol. Biol.* (2008), 66: 61-72. ISSN:0167-4412. Published by Springer, The Netherlands. IF=3.541. Ranking: 17/153 (Plant Sciences)

## 2006

**Formentin E.\***, Naso A., Varotto S., Picco C., Gambale F. and Lo Schiavo F. "KDC2, a functional homomeric potassium channel expressed during carrot embryogenesis", *FEBS Lett.* (2006), 580: 5009-5015. ISSN 0014-5793. (\* corresponding author) Published by Elsevier Science B.V., The Netherlands. IF=3.372. Ranking: 16/66 (Biophysics)

## 2005

Dong R., **Formentin E.**, Losseso C., Carimi F., Benedetti P., Terzi M., Lo Schiavo F. "Molecular cloning and characterization of a phytochelatin synthase gene, PvpCS1, from *Pteris vittata* L." *J Ind Microbiol Biotechnol* (2005), 32: 527–533. ISSN 1367-5435. Published by Springer Heidelberg, Germany. IF=1.273. Ranking: 83/139 (Biotechnology & Applied Microbiology)

## 2004

**Formentin E.\***, Varotto S., Costa A., Downey P., Bregante M., Naso A., Picco C., Gambale F. and Lo Schiavo F. "DKT1, a novel K<sup>+</sup> channel from carrot, forms functional heteromeric channels with KDC1". FEBS Lett. (2004), 573: 61-67. ISSN 0014-5793. (\* corresponding author) Published by Elsevier Science B.V., The Netherlands. IF=3.843. Ranking: 10/64 (Biophysics)

Costa A., Carpaneto A., Varotto S., **Formentin E.**, Marin O, Barizza E., Terzi M., Gambale F. and Lo Schiavo F. "Potassium and carrot embryogenesis: Are K<sup>+</sup> channels necessary for development?" Plant Mol. Biol. (2004) 54: 837-852. ISSN:0167-4412. Published by Springer, The Netherlands. IF=3.510. Ranking: 11/138 (Plant Sciences).

Picco C., Bregante M., Naso A., Gavazzo P., Costa A., **Formentin E.**, Downey P., Lo Schiavo F. and Gambale F. "Histidines are responsible for zinc potentiation of the current in KDC1 carrot channels". Biophys. J. (2004), 86: 224-234. ISSN 0006-3495. Published by Cell Press. IF=3.972. Ranking: 17/73 (Biophysics)

## 2003

Carimi F., Zottini M., **Formentin E.**, Terzi M., and Lo Schiavo F. "Cytokinins: new apoptotic inducers in plants?" Planta (2003), 216: 413-421. ISSN 0032-0935. Published by Springer, Germany. IF=3.053. Ranking: 15/136 (Plant Sciences)

## 2002

Zottini M., **Formentin E.**, Scattolin M., Carimi F., Lo Schiavo F., Terzi M. "Nitric oxide affects plant mitochondrial functionality in vivo". FEBS Lett. (2002), 515: 75-78. ISSN 0014-5793. Published by Elsevier Science B.V., The Netherlands. IF=3.912. Ranking: 60/266 (Biochemistry & Molecular Biology)

## 1999

Faulkner G., Pallavicini A., **Formentin E.**, Comelli A., Ievolella C., Trevisan S., Bortoletto G., Scannapieco P., Mouly V., Valle G. and Lanfranchi G. "ZASP: a new Z-band alternatively spliced PDZ-motif protein". J. Cell. Biol. (1999), 146(2):465-475. ISSN 0021-9525. Published by The Rockefeller University Press, USA. IF=12.880. Ranking: 9/141 (Cell Biology)