



Brief Curriculum Vitae

Gustavo Esteban GERGOFF GROZEFF

Doctor in Natural Sciences (National University of La Plata)

Agronomy Engineer (2005) and

Forestry Engineer (2009) (Scholl of Agricultural and Forestry Sciences, UNLP)

**Adjunt Researcher of the National Scientific and Technical
Research Council (CONICET) – Argentina (2018-)**

<https://scholar.google.es/citations?user=5UnMAGoAAAAJ&hl=es&oi=ao>

Subjects of interest:

Plant Physiology and Ascorbic Acid Synthesis

New technologies in Fruit and Seed Postharvest Physiology

Pomology (Tree Fruit Technologies)

Head of Practical Work in Plant Physiology (2021- and continues)

Head of Practical Work in Pomology (2020- and continues)

Fellow student of CONICET and Postdoc Fellow student of DAAD and CONICET

70 presentations to Congress

23 Research Papers in Plant Physiology and Postharvest Technology

11 book chapters

Director of one PhD student and Co-director of another two Postdoc students

Director and co-director of 7 undergraduated students (finalized)

Director and co-director of 4 another undergraduated students of final carrier thesis (Scholl of Agricultural and Forestry Sciences, UNLP)

Awards:

DISTINCIÓN DR. JOAQUÍN V. GONZÁLEZ Municipalidad de La Plata, Argentina (2005)

Premio a la Labor Científica, Tecnológica y Artística de la Universidad Nacional de La Plata (2017)

Invited reviewer of:

Postharvest Biology and Technology, Food Chemistry, Revista de la Facultad de Agronomía, Scientia Horticulturae, Journal of Horticultural Science and Biotechnology, Journal of the Science of Food and Agriculture, New Zealand Journal of Crop and Horticultural Science.

Recent publications:

Carlos G. Bartoli, Facundo Gomez, Gustavo Gergoff, Juan J. Guiamet and Susana Puntarulo, 2005. *Up – regulation of the mitochondrial alternative oxidase pathway enhances photosynthetic electron transport under drought conditions.* Journal of Experimental Botany, Vol. 56, No. 415, pp. 1269-1276.

Gómez Facundo, Laura Fernández, Juan José Guiamet, Gustavo Gergoff, Alicia Chaves and Carlos Bartoli, 2008. Heat shock increases mitochondrial H₂O₂ production and extends postharvest life of spinach leaves. *Postharvest Biology and Technology.* (49) pp. 229–234

Gustavo Gergoff Grozeff; María E Micieli; Facundo Gomez; Laura Fernández; Juan J Guiamet; Alicia R Chaves; Carlos Guillermo Bartoli, 2010. 1-Methyl cyclopropene extends postharvest life of spinach leaves *Postharvest Biology and Technology* (55) pp.182–185

Gergoff G, Chaves A and Bartoli CG, 2010. Ethylene regulates ascorbic acid content during dark-induced leaf senescence *Plant Science* (178) pp. 207-212

Peter Schertl, Stephanie Sunderhaus, Jennifer Klodmann, Gustavo E Gergoff Grozeff, Carlos G Bartoli, and Hans-Peter Braun, 2012. L-galactono-1,4-lactone dehydrogenase (GLDH) forms part of three assembly intermediates of mitochondrial complex I in *Arabidopsis thaliana*. *The Journal of Biological Chemistry* 287(18): 14412–14419

Gergoff Grozeff, G. Chaves, A.R, Bartoli, C.G. 2013. Low irradiance pulses improve postharvest quality in spinach leaves (*Spinacia oleracea* L. cv. Bison). *Postharvest Biology and Technology* 77: 35-42

Gergoff Grozeff, G.E. Bartoli, C.G. 2013. Participation of ascorbic acid in the dormancy establishment of poplar lateral branch buds. *Journal of Forest Research* 19: 301-304

Mazorra, L.M., Senn, M.E., Gergoff Grozeff, G.E., Fanello, D.D., Carrión, C.A., Núñez, M., Bishop, G.J., Bartoli, C.G. 2014. Impact Of Brassinosteroids And Ethylene On Ascorbic Acid Accumulation In Tomato Leaves. *Plant Physiology and Biochemistry* 74: 315-322

Gustavo Esteban Gergoff Grozeff, María Eugenia Senn, Matías Leonel Alegre, Alicia Raquel Chaves, Carlos Guillermo Bartoli, 2016. Nocturnal low irradiance pulses improve fruit yield and lycopene concentration in tomato. *Scientia Horticulturae* 203: 47-52

M.E. Senn, G.E. Gergoff Grozeff, M.L. Alegre, F. Barrile, M.C. De Tullio, C.G. Bartoli, 2016. Effect of mitochondrial ascorbic acid synthesis on photosynthesis. *Plant Physiology and Biochemistry* 104: 29-35

- Gustavo Esteban Gergoff Grozeff, Matías Leonel Alegre, María Eugenia Senn, Alicia Raquel Chaves, Marcela Simontacchi, Carlos Guillermo Bartoli., 2017. Combination of nitric oxide and 1-MCP on postharvest life of the blueberry (*Vaccinium* spp.) fruit *Postharvest Biology and Technology* 133: 72-80
- Gustavo Esteban Gergoff Grozeff, María de los Ángeles Romero, Matilde Aubone Videla, 2017. Nitric oxide in combination with indole-3-butyric acid improves root growth in 'Ferdor Julior' hardwood cuttings (*Prunus insisititia* (L.) x *Prunus domestica* (L.)) *Journal of Horticultural Science and Biotechnology* 93: 175-184
- M. Caviglia, L.M. Mazorra Morales, A. Concellón, G.E. Gergoff Grozeff, M. Wilson, C.H. Foyer, C.G. Bartoli, 2018. Ethylene signaling triggered by low concentrations of ascorbic acid regulates biomass accumulation in *Arabidopsis thaliana*. *Free Radical Biology and Medicine* 122: 130-136
- Ortiz, C.M., Franceschinis, F., Gergoff Grozeff, G.E., Chan, H., Labavitch, J., Crisosto, C., Vicente, A., 2018. Pre-treatment with 1-methylcyclopropene alleviates methyl bromide-induced decay, softening and wall degradation in blueberry *Postharvest Biology and Technology* 146: 90-98
- Steelheart, C., Alegre, M., Vera Bahima, J., Senn, M.E., Simontacchi, M., Bartoli, C.G., Gergoff Grozeff, G.E., 2019. Nitric oxide improves the effect of 1-methylcyclopropene extending the tomato (*Lycopersicum esculentum* L.) fruit postharvest life *Scientia Horticulturae* 255: 193-201
- Casajús, V., Reyes Jara, A., Gergoff, G., Gómez Lobato, M., Civello, P., Martínez, G., 2019. The time of the day to harvest affects the degreening, antioxidant compounds, and protein content during postharvest storage of broccoli. *Journal of Food Biochemistry* 43(7): e12904
- Matías L. Alegre · Charlotte Steelheart · Pierre Baldet · Christophe Rothan · Daniel Just · Yoshihiro Okabe · Hiroshi Ezura · Nicholas Smirnoff · Gustavo E. Gergoff Grozeff · Carlos G. Bartoli, 2020. Deficiency of GDP-1-galactose phosphorylase, an enzyme required for ascorbic acid synthesis, reduces tomato fruit yield *Planta* (2020) 251:54
- Charlotte Steelheart · Matías L. Alegre · Pierre Baldet · Christophe Rothan · Daniel Just · Cecile Bres · Yoshihiro Okabe · Hiroshi Ezura · Inti Ganganelli · Gustavo E. Gergoff Grozeff · Carlos G. Bartoli, 2020. The effect of low ascorbic acid content on tomato fruit ripening. *Planta* 252: 36. Disponible on line: <https://doi.org/10.1007/s00425-020-03440-z>
- Agustina Buet · Charlotte Steelheart · Mauro A. Perini · Andrea Galatro · Marcela Simontacchi · Gustavo Esteban Gergoff Grozeff, 2021. Nitric Oxide as a Key Gasotransmitter in Fruit Postharvest: An Overview. *Journal of Plant Growth Regulation* 40: 2286-2302. Disponible on line: <https://doi.org/10.1007/s00344-021-10428-w>
- Pintos, Federico, Lemoine, M.L., Gergoff Grozeff, G.E., Hasperue, J., Vicente, A., Rodoni, L., 2022. Use of riboflavin to reduce decay and extend the shelf-life of fresh-cut sweet pepper. *Postharvest Biology and Technology* 188: 111882. Disponible on line: <https://doi.org/10.1016/j.postharvbio.2022.111882>

Book Chapters

Scelzo, Liliana, Alegre, Matías, Bartoli, Carlos Guillermo, Galatro, Andrea, Velikova, Violeta, Gergoff Grozeff, Gustavo Esteban* (corresponding author)

" **Volatile signaling molecules in plants and their interplay with the redox balance under challenging environments: new insights**"

En: Gasotransmitters Signalling in Plants under Challenging Environments

Editores: Tariq, Aftab y Francisco Corpas.

ISBN en trámite.
Springer Nature - Singapure (2022) in press

Steelheart Molina, C., Galatro, A., Bartoli, C.G., Gergoff Grozeff, G.E.

“Nitric oxide and hydrogen peroxide: signals in fruit ripening”

EN: NITRIC OXIDE AND HYDROGEN PEROXIDE SIGNALLING IN HIGHER PLANTS

Editor: Prof Gupta, D.; Palma J.M.; Corpas, F.J. - Leibniz Universität, Hannover (Alemania)

ISBN: 978-3-030-11128-1

Editorial Springer Nature Switzerland AG (2019) Disponible on line: <https://doi.org/10.1007/978-3-030-11129-8>

Carlos G. Bartoli, Agustina Buet, Gustavo Gergoff, Andrea Galatro and Marcela Simontacchi

Ascorbate-glutathione cycle and abiotic stress tolerance in plants

En: “Ascorbic Acid in Plant Growth, Development and Stress Tolerance”. Dr. Sergi Munné-Bosch, Dr. David J. Burritt, Dr. Pedro-Diaz, Dr. Masayuki Fujita, Dr. Anwar Hossain (editors) (2017)

ISBN 978-3-319-74056-0

Editorial **Springer Nature**. Disponible on line: <https://link.springer.com/content/pdf/bfm%3A978-3-319-74057-7%2F1.pdf>

Bartoli, C.G., Senn, M.E., Gergoff Grozeff G.E.

Physiological processes contributing to the synthesis of ascorbic acid in plants pp 71-92 – En: Redox State as a Central Regulator of Plant-Cell Stress Responses. Gupta, D.K., Palma, J.M., Corpas, F.J. (editors) pp386 (2016) ISBN 978-3-319-44081-1 - Springer International Publishing 2016

Disponible on-line: <http://www.springer.com/gp/book/9783319440804>

Gergoff Grozeff, G.E. **Análisis en prospectiva de posibles tendencias para la cátedra de Fruticultura.** pp 179-187.

En: *Políticas de educación superior por universitarios.* Roberto Marengo Carlos Giordano, Catalina Caminos (coordinadores) Editorial de la Universidad de La Plata. ISBN 978-987-1985-66-1. La Plata, Argentina. pp. 414 (2015)

<http://www.editorial.unlp.edu.ar/home>