

Davide Treggiari, PhD

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Work History and Experience

Da settembre 2020 a oggi, **Biologo** presso il **Dipartimento di Malattie Infettive, Tropicali e Microbiologia (DITM) IRCCS Sacro Cuore - Don Calabria**

Da aprile 2019 a settembre 2020 **Post-doctoral Research Associate**, presso il **Centro Fibrosi Cistica, Azienda Ospedaliera Universitaria Integrata di Verona** (Dott.ssa Melotti P)

Da gennaio 2017 a marzo 2018, **Post-doctoral Research Associate** presso **Human Genetic Department, University of Pittsburgh (USA)** (Prof. B. Roman).

Da luglio 2015 a gennaio 2017, **assegnista di ricerca** presso il **Dipartimento di Medicina dell'Università degli Studi di Verona** (Prof. P. Minuz)

Da gennaio 2014 a giugno 2014, **PhD student** presso il **Department of Medicine, Harvard University, Cardiovascular Division of Brigham and Women's Hospital di Boston, (USA)** (Prof. C. MacRae).

Da gennaio 2012 a dicembre 2014, **PhD student** presso il **Dipartimento di Biotecnologie e Medicina, Università di Verona** (Prof. P. Minuz, Prof. T. Pandolfini).

Da Aprile 2011 a Dicembre 2011, **Assegnista di Ricerca** presso il **Dipartimento di Medicina dell'Università di Verona** (Prof P. Minuz),.

Da settembre 2010 a novembre 2010, in qualità di **Training Research Fellow** presso il **Centre of Vascular Vision Science della Queen's University di Belfast (UK)** (Prof. A. Collins),

Da gennaio 2008 ad agosto 2010, **Research Scientist** presso il **Centro Ricerche GlaxoSmithKline**,

Da ottobre 2002 a dicembre 2007, **Research Technician**, presso il **Centro Ricerche GlaxoSmithKline**,

Education

2021 Iscritto all'albo dei Biologi

2012-2014 University of Verona, **PhD in Applied Biotechnology** (excellent);

2007-2009 University of Bologna, **Laurea Magistrale in Biotecnologie**

Mediche (110/110);

Post-Graduate Courses

Clinical Research Training Course. Missione CRA, (48-hour clinical research training course as per the Ministerial Decree 15.11.2011), 8-9-10 and 16-17-18 March 2018, Milan, Italy

Design and interpretation of Clinical Trials. Coursera Course Certificate, from 8 to 20 March 2017, Johns Hopkins University, USA

Presenting your Research in English. Office of Academic Career Development, 13th November 2017, University of Pittsburgh, USA

Doctoral School Course on Mass Spectrometry. University of Verona, 17-21 October 2016, Fiera di Primiero, TN, Italy

Advance Course in flow cytometry-oncology and haematology applications. University of Verona, 22-23 May 2012, Verona, Italy

Handling and Welfare of laboratory animals Workshop. The Institute of Animal Technology, 25-28 October 2005, Stirling, UK

Contribution to conference

Italian Platelet Study Group (Norcia, 02-04 Oct. 2011)

Modulation of platelet aggregation in diabetic patients (Calabria S, Ferrero R, Ricci M, Treggiari D, Minuz P)

British Society for Cardiovascular Research (Belfast, 03-04 Sep. 2012)

Modulation of oxidative stress induced apoptosis and autophagy in cardiomyocytes by intermedin (McCarthy C, Zhao Y, McKeag P, Treggiari D, McLaughlin D, Colhoun L, Grieve D, McDermott B)

British Pharmacological Society Winter meeting (London, 18-20 Dec. 2012)

Tomato cystine-knot miniproteins: purification and new insights into the molecular mechanisms of their anti-angiogenic properties (D Treggiari, B Molesini, G Zoccatelli, M Degan, T Pandolfini, P Minuz)

International Conference FoodOmics 2013 (Cesena, 22-24 May 2013)

Cystine-knot miniproteins present in *Solanaceae* display biological effects on human endothelial cells (D Treggiari, B Molesini, G Zoccatelli, T Pandolfini, P Minuz)

Italian Federation of Life Sciences, FISV 2014 (Pisa, 24-27 Sept. 2014)

Characterization and evaluation of potential anti-angiogenic activity of tomato miniproteins and lycopene (D Treggiari, A. Dalbeni, B Molesini, G Zoccatelli, M Degan, T Pandolfini, P Minuz)

Italian Society of Internal Medicine, SIMI National meeting 2014 (Rome, 25-27 October 2014)

Mechanistic insight into the antiangiogenic effects of bioactive compounds of tomato fruit (D Treggiari, A. Dalbeni, B Molesini, G Zoccatelli, M Degan, T Pandolfini, P Minuz)

Italian Society of Hypertension, National meeting 2015 (Bologna, 24-26 September 2015) Effects of

lycopene on NO synthesis and release on endothelial migration (A. Dalbeni, D. Treggiari, M. Degan, B. Molesini, C. Fava, T. Pandolfini, P. Minuz)

82nd Workshop of International School of Pharmacology (Erice, 26-30 September 2015) Plant Peptides targeted to human receptors (T Pandolfini, A. Dalbeni, B Molesini, G Zoccatelli, M Degan, D Treggiari, P Minuz)

European Society of Hypertension, 26th Meeting of Hypertension and Cardiovascular Protection (Paris, 10-13 June 2016) Lycopene increases nitric oxide bioavailability and inhibits endothelial cells migration (A Dalbeni, D Treggiari, B Molesini, C Fava, T Pandolfini, P Minuz)

Italian Federation of Life Sciences, FISV 2016, Nutritional Biochemistry (Rome, 20-23 Sept. 2016) Bioavailability of tomato cystine-knot miniproteins with anti-angiogenic properties (D Treggiari, G Zoccatelli, R Chignola, B Molesini, P Minuz, T Pandolfini)

European Society of Hypertension, 27th Meeting of Hypertension and Cardiovascular Protection (Milan, 16-19 June 2017) Antiangiogenic Cysteine-knot miniproteins present in tomato fruits and industrial derivatives can be absorbed through the gastrointestinal mucosa (P Minuz, D Treggiari, A. Dalbeni, B Molesini, R Chignola, G Zoccatelli, T Pandolfini)

North American Vascular Biology Organization, Vascular Biology 2107 (Asilomar, Monterey, CA, USA 15-19 October 2017) Investigating the role of BMP9 in the development of superior cavopulmonary anastomosis-associated pulmonary arteriovenous malformations (D Treggiari, TL Capasso, M LM Hinds, JL Bloch, S Cook, S Trucco, B Roman)

5th National Congress of Italian Society of Virology 2021, Napoli. Prevalence analysis of Respiratory Viruses during SARS-CoV-2 Pandemic in a Hospital in North-Est Italy (Davide Treggiari, Chiara Piubelli, Fabio Formenti, Ronaldo Silva, Francesca Perandin)

6th National Congress of Italian Society of Virology 2021, Napoli. SARS-CoV-2 and Influenza co-infection during COVID-19 Pandemic: data from Seasons 2020/2021 and 2021/2022 (Davide Treggiari, Fabio Formenti, Martina Leonardi, Barbara Pajola, Lavinia Nicolini, Giulia La Marca, Chiara Piubelli, Francesca Perandin)

Publications

A cystine-knot miniprotein from tomato fruit inhibits endothelial cell migration and angiogenesis by affecting vascular endothelial growth factor receptor activation and nitric oxide production

D Treggiari, G Zoccatelli, B Molesini, M Degan, GL Rotino, T Sala, C Cavallini, CA MacRae, P Minuz, T Pandolfini. *Mol. Nutr. Food Res.*, 2015, 00 , 1-12.

Plant cystine-knot peptides: pharmacological perspectives

B Molesini, D Treggiari, A Dalbeni, P Minuz and T Pandolfini. *British J. Clinical Pharm.* , 2016

Tomato cystine-knot miniproteins possessing antiangiogenic activity exhibit in vitro gastrointestinal stability, intestinal absorption and resistance to food industrial processing

D Treggiari, G Zoccatelli, R Chignola, B Molesini, P Minuz, T Pandolfini. *Food Chemistry*, 2016

Lycopene inhibits endothelial cells migration induced by Vascular Endothelial Growth Factor A increasing Nitric Oxide bioavailability

D Treggiari, A Dalbeni; M Degan; A Meneguzzi; C Fava; P Delva; B Molesini; T Pandolfini; P Minuz. *J. Functional Foods*, 2018

Positive effects of Tomato Paste on vascular function after a Fat Meal in Healthy Subjects

Dalbeni A, Treggiari D, Tagetti A, Bevilaqua M, Bonafini S, Montagnana M, Scaturro G, P Minuz P, Fava C. *Nutrients*, 2018

In search of “hepatic factor:” Lack of evidence for ALK1 ligands BMP9 and BMP10

Teresa L Capasso, Sara M Trucco, Morgan Hinds, Tristin Schwartze, Jamie L Bloch, Jacqueline Kreutzer, Stephen C Cook, Cynthia S Hinck, Davide Treggiari, Brian Feingold, Andrew P Hinck, Beth L Roman. *medRxiv* 2020.07.09

Treggiari, D, Tridello, G, Menin, L, et al. Role of sweat ion ratios in diagnosing cystic fibrosis. *Pediatric Pulmonology*. 2021; 56: 2023- 2028. <https://doi.org/10.1002/ppul.25395>

Davide Treggiari, Karina Kleinfelder, Marina Bertini, Gloria Tridello, Arianna Fedrigo, Emily Pintani, Patrizia Iansa, Antonella Casiraghi, Paola Minghetti, Marco Cipolli, Claudio Sorio, Paola Melotti. Optical Measurements of Sweat for in Vivo Quantification of CFTR Function in Individual Sweat Glands. *Journal of Cystic Fibrosis*, April 2021

Deiana, M.; Piubelli, C.; Mori, A.; Chiecchi, G.P.; La Marca, G.; Leonardi, M.; Treggiari, D.; Beltrame, A.; Moro, L.; Bisoffi, Z.; Pomari, E. Direct Quantitation of SARS-CoV-2 Using Droplet Digital PCR in Suspected Samples With Very Low Viral Load. Preprints.org 2021, 2021040688. <https://doi.org/10.20944/preprints202104.0688.v1>.

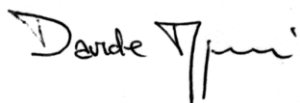
Deiana, M.; Mori, A.; Piubelli, C.; Perandin, F.; Treggiari, D.; Martini, D.; Chesini, F.; Angheben, A.; Bonfante, F.; Terregino, C.; Bisoffi, Z.; Pomari, E. Impact of Full Vaccination with mRNA BNT162b2 on SARS-CoV-2 Infection: Genomic and Subgenomic Viral RNAs Detection in Nasopharyngeal Swab and Saliva of Health Care Workers. *Microorganisms* **2021**, *9*, 1738. <https://doi.org/10.3390/microorganisms9081738>

Treggiari, D, Piubelli, C, Caldreller, S, et al. SARS-CoV-2 rapid antigen test in comparison to RT-PCR targeting different genes: a real-life evaluation among unselected patients in a regional hospital of Italy. *J Med Virol*. 2022; 94: 1190- 1195. [doi:10.1002/jmv.27378](https://doi.org/10.1002/jmv.27378)

Davide Treggiari, Chiara Piubelli, Fabio Formenti, Ronaldo Silva, Francesca Perandin, "Resurgence of Respiratory Virus after Relaxation of COVID-19 Containment Measures: A Real-World Data Study from a Regional Hospital of Italy", *International Journal of Microbiology*, vol. 2022, Article ID 4915678, 5 pages, 2022. <https://doi.org/10.1155/2022/491>

Autorizzo il trattamento dei miei dati personali, ai sensi del D. lgs. 196 del 30 giugno 2003

Negrar 09/05/2023

A handwritten signature in black ink, reading "Davide Treggiari". The signature is written in a cursive style with a distinct loop at the end of the last name.

