Paolo Sonego

Dati personali

Data di nascita: 31 May 1974

Cittadinanza: Italiana

Domicilio:
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Formazione

Laurea in Fisica, Università di Bologna — 2003

Esperienza di ricerca

Analista di dati di trascrittomica — 2013 - Ora
Fondazione Edmund Mach — San Michele all'Adige, Trento, Italia
Analysis of High-Throughput biological data:
RNA-Seq Statistical Analysis.

Bioinformatico — 2008 - 2013
CBM, Cluster in Biomedicine — Trieste, Italia
Analysis of High-Throughput biological data:
Microarray and RNA-Seq Statistical Analysis.
Advisor: Remo Sanges, Ph.D.

PhD course in Molecular Genetics — 2005 - 2008
ICGEB, Protein Structure and Bioinformatics — Trieste, Italia
Performance assessment and Benchmarking of protein structure prediction algorithms.
Advisor: Sàndor Pongor, Ph.D., D.Sc.

Bioinformatician, Microarray Analysis — 2003 - 2005
CRO - Centro di Riferimento Oncologico — Aviano, Italia
cDNA microarray statistical analysis.
Supervisor: Dr. Valter Gattei

Esperienza di ricerca all'estero

Marie Curie Fellowship at Dept. of Hematology and Oncology, University Medical Center Göttingen, Germany, University — Luglio 2010 - Agosto 2010

Insegnamento

Instructor, METHADA 2020, Training school in transcriptomics, Valencia — Primavera 2020

Instructor, Statistics Applied to Biological Problems, ICGEB, Trieste — Estate 2011

Instructor, Bioinformatics II, Universitá di Trieste — Primavera 2011

Lecturer, Introduction to the Analysis of Microarray Data, SynBiosis, Brno — Estate 2010

Interessi professionali

Analista di dati biologici high-throughput

Pubblicazioni

Moretto Marco, Sonego Paolo, Pilati Stefania, Matus José Tomás, Costantini Laura, Malacarne Giulia, Engelen Kristof. 2022. COMPASS for VESPUCCI: A FAIR Way to Explore the Grapevine Transcriptomic Landscape. Front. Plant Sci. — doi: 10.3389/fpls.2022.815443.

Nicola Busatto, Alice Tadiello, Marco Moretto, Brian Farneti, Francesca Populin, Urska Vrhovsek, Mauro Commisso, Elisa Sartori, Paolo Sonego, Franco Biasioli, Guglielmo Costa, Flavia Guzzo, Paolo Fontana, Kristof Engelen, Fabrizio Costa. 2021. Ethylene-auxin crosstalk regulates postharvest fruit ripening process in apple. Fruit Research. — doi: 10.48130/FruRes-2021-0013.

Zeraye M. Haile, Giulia Malacarne, Stefania Pilati, Paolo Sonego, Marco Moretto, Domenico Masuero, Urska Vrhovsek, Kristof Engelen, Elena Baraldi and Claudio Moser. 2020. Dual transcriptome and metabolic analysis of Vitis vinifera cv. Pinot Noir berry and Botrytis cinerea during quiescience and egressed infections. Front. Plant Sci. — doi: 10.3389/fpls.2019.01704.

Zeraye H. Mehari, Ellaine G. Nagpala-De Guzman, Marco Moretto, Paolo Sonego, Kristof Engelen, Lisa Zoli, Claudio Moser and Elena Baraldi. 2019. Transcriptome profiles of strawberry (Fragaria vesca) fruit interacting with Botrytis cinerea at different ripening stages. Front. Plant Sci. — doi: 10.3389/fpls.2019.01131.

Marco Moretto, Paolo Sonego, Ana B. Villaseñor-Altamirano, and Kristof Engelen. 2019. First Step toward Gene Expression Data Integration: Transcriptomic Data Acquisition with COMMAND. BMC Bioinformatics 20. doi.org/10.1186/s12859-019-2643-6.

Matteo Buti, Marco Moretto, Elena Barghini, Flavia Mascagni, Lucia Natali, Matteo Brilli, Alexandre Lomsadze, Paolo Sonego, Lara Giongo, Michael Alonge, Riccardo Velasco, Claudio Varotto, Nada Šurbanovski, Mark Borodovsky, Judson A Ward, Kristof Engelen, Andrea Cavallini, Alessandro Cestaro, Daniel James Sargent; The genome sequence and transcriptome of Potentilla micrantha and their comparison to Fragaria vesca (the woodland strawberry)

Malacarne, Giulia, Stefania Pilati, Samuel Valentini, Francesco Asnicar, Marco Moretto, Paolo Sonego, Luca Masera, Valter Cavecchia, Enrico Blanzieri, and Claudio Moser. 2018. "Discovering Causal Relationships in Grapevine Expression Data to Expand Gene Networks. A Case Study: Four Networks Related to Climate Change." Frontiers in Plant Science 9.

Tomada, S., Sonego, P., Moretto, M., Engelen, K., Pertot, I., Perazzolli, M. and Puopolo, G. (), Dual RNA-Seq of Lysobacter capsici AZ78 - Phytophthora infestans interaction shows the implementation of attack strategies by the bacterium and unsuccessful oomycete defense responses. Environmental Microbiology. Accepted Author Manuscript. doi:10.1111/1462-2920.13861

Pilati Stefania, Bagagli Giorgia, Sonego Paolo, Moretto Marco, Brazzale Daniele, Castorina Giulia, Simoni Laura, Tonelli Chiara, Guella Graziano, Engelen Kristof, Galbiati Massimo, Moser Claudio, Abscisic Acid Is a Major Regulator of Grape Berry Ripening Onset: New Insights into ABA Signaling

Network, Frontiers in Plant Science, Vol.8, 2017, Pages 1093, doi:10.3389/fpls.2017.01093

Mehari, Z. H., Pilati, S., Sonego, P., Malacarne, G., Vrhovsek, U., Engelen, K., Tudzynski, P., Zottini, M., Baraldi, E., and Moser, C. 2017. Molecular analysis of the early interaction between the grapevine flower and Botrytis cinerea reveals that prompt activation of specific host pathways leads to fungus quiescence. Plant, Cell Environment, doi: 10.1111/pce.12937.

Leida Carmen, Dal Rì Antonio, Dalla Costa Lorenza, Gómez Maria D., Pompili Valerio, Sonego Paolo, Engelen Kristof, Masuero Domenico, Ríos Gabino, Moser Claudio, Insights into the Role of the Berry-Specific Ethylene Responsive Factor VviERF045, Frontiers in Plant Science, Volume 7, 2016, Pages 1793, doi: 10.3389/fpls.2016.01793

Giulia Molinatto, Gerardo Puopolo, Paolo Sonego, Marco Moretto, Kristof Engelen, Carlo Viti, Marc Ongena, Ilaria Pertot, Complete genome sequence of Bacillus amyloliquefaciens subsp. plantarum S499, a rhizobacterium that triggers plant defences and inhibits fungal phytopathogens, Journal of Biotechnology, Volume 238, 20 November 2016, Pages 56–59, doi: 10.1016/j.jbiotec.2016.09.013

Marco Moretto, Paolo Sonego, Stefania Pilati, Giulia Malacarne, Laura Costantini, Lukasz Grzeskowiak, Giorgia Bagagli, Maria Stella Grando, Claudio Moser and Kristof Engelen, VESPUCCI: Exploring Patterns of Gene Expression in Grapevine, Front. Plant Sci., 10 May 2016

Puopolo Gerardo, Tomada Selena, Sonego Paolo, Moretto Marco, Engelen Kristof, Perazzolli Michele, Pertot Ilaria The Lysobacter capsici AZ78 genome has a gene pool enabling it to interact successfully with phytopathogenic microorganisms and environmental factors, Frontiers in Microbiology Vol 7 2016. doi=10.3389/fmicb.2016.00096

Marco Moretto, Paolo Sonego, Nicolas Dierckxsens, Matteo Brilli, Luca Bianco, Daniela Ledezma-Tejeida, Socorro Gama-Castro, Marco Galardini, Chiara Romualdi, Kris Laukens, Julio Collado-Vides, Pieter Meysman, and Kristof Engelen, COLOMBOS v3.0: leveraging gene expression compendia for cross-species analyses, Nucl. Acids Res. first published online November 19, 2015 doi:10.1093/nar/gkv1251

Lòpez-Fernàndez Sebastian, Sonego Paolo, Moretto Marco, Pancher Michael, Engelen Kristof, Pertot Ilaria, Campisano Andrea, Whole-genome comparative analysis of virulence genes unveils similarities and differences between endophytes and other symbiotic bacteria, Frontiers in Microbiology 2015 May doi:10.3389/fmicb.2015.00419

Gerardo Puopolo, Paolo Sonego, Kristof Engelen, Ilaria Pertot, Draft Genome Sequence of Lysobacter capsici AZ78, a Bacterium Antagonistic to Plant-Pathogenic Oomycetes, Genome Announc. 2014 Apr 24;2(2). pii: e00325-14. doi: 10.1128/genomeA.00325-14

Pieter Meysman, Paolo Sonego, Luca Bianco, Qiang Fu, Daniela Ledezma-Tejeida, Socorro Gama-Castro, Veerle Liebens, Jan Michiels, Kris Laukens, Kathleen Marchal, Julio Collado-Vides, and Kristof Engelen, COLOMBOS v2.0: an ever expanding collection of bacterial expression compendia, Nucl. Acids Res. first published online November 8, 2013 doi:10.1093/nar/gkt1086

Sigalotti, L. and Fratta, E. and Parisi, G. and Covre, A. and Sonego, P. and Rizzo, A. and Colizzi, F. and Coral, S. and Massarut, S. and Maio, M., 468 Prognostic Potential of Integrated Whole Genome Methylation and Expression Profiling in Cutaneous Melanoma, European Journal of Cancer 48 (November 2012):145

Sigalotti L, Covre A, Fratta E, Parisi G, Sonego P, Colizzi F, Coral S, Massarut S, Kirkwood JM, Maio M., Whole genome methylation profiles as independent markers of survival in stage iiic melanoma patients. J Transl Med. (September 5, 2012);10(1):185.

Sonego, Paolo, András Kocsor, and Sándor Pongor, ROC analysis: applications to the classification of biological sequences and 3D structures. Brief Bioinform (January 18, 2008).

Sonego, Paolo, Mircea Pacurar, Somdutta Dhir, Attila Kertész-Farkas, András Kocsor, Zoltán Gáspári, et al., A Protein Classification Benchmark collection for machine learning. Nucleic acids research 35, no. Database issue (January 2007): 232-6.

Kertész-Farkas, Attila, Somdutta Dhir, Paolo Sonego, Mircea Pacurar, Sergiu Netoteia, Harm Nijveen, et al., Benchmarking protein classification algorithms via supervised cross-validation. Journal of Biochem Biophys Methods (May 31, 2007).

Zucchetto, Antonella, Riccardo Bomben, Michele Dal Bo, Paolo Sonego, Paola Nanni, Maurizio Rupolo, et al., A scoring system based on the expression of six surface molecules allows the identification of three prognostic risk groups in B-cell chronic lymphocytic leukemia. Journal of cellular physiology 207, no. 2 (May 2006): 354-63.

Zucchetto, Antonella, Paolo Sonego, Massimo Degan, Riccardo Bomben, Michele Dal Bo, Pietro Bulian, et al., Surface-antigen expression profiling of B cell chronic lymphocytic leukemia: from the signature of specific disease subsets to the identification of markers with prognostic relevance. Journal of translational medicine 4 (2006): 11.

Bertani, Nicoletta, Paolo Malatesta, Giorgia Volpi, Paolo Sonego, and Roberto Perris, Neurogenic potential of human mesenchymal stem cells revisited: analysis by immunostaining, time-lapse video and microarray. Journal of cell science 118, no. Pt 17 (September 1, 2005): 3925-36.

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Zucchetto, Antonella, Paolo Sonego, Massimo Degan, Riccardo Bomben, Michele Dal Bo, Stefania Russo, et al., Signature of B-CLL with different prognosis by Shrunken centroids of surface antigen expression profiling. Journal of cellular physiology 204, no. 1 (July 2005): 113-23.

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