

Gianna Maria Toffolo

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Current position

Full Professor – Department of Information Engineering SSD:ING-INF/06

Curriculum

1978	Laurea summa cum laude in Electric Engineering, University of Padova
1978 – 1981	Instructor
1979	Visiting Scholar, Department of Engineering Sciences and Applied Mathematics, Northwestern University, Evanston, IL
1981- 1987	Assistant Professor of Bioengineering, University of Padova
1987- 2000	Associate Professor of Biological Signal Processing, University of Padova
2000 -	Full Professor of Biological Signal Processing, University of Padova

Current teaching activity

- Biomedical Signal Processing (9CFU) – graduate course in Bioengineering, University of Padova – responsible
- Systems and Models (6 of 9 CFU) – undergraduate course in Information Engineering - coresponsible

Institutional activities

- Chairperson (from nov2009 to sept 2017) of the undergraduate and graduate program in Bioengineering
- Coordinator (from nov2014 to nov2016) of the nine undergraduate and graduate programs at the Information Engineering Department
- Member of the PhD School of Information Engineering
- Member of the national committee for scientific habilitation – Bioengineering area (2012-13)

Editorial activities

She serves as consulting editor for Diabetes and as external referees for many journals, including Diabetologia, Diabetes Review, American Journal of Physiology, Bioinformatics, PlosOne, Clinical Pharmaceuticals and Therapeutics, Journal of Computational and Applied Mathematics, Nature Communication, Clinical Neurology.

Scientific activities

Her research activity, carried out in collaboration with Italian and foreign investigators, mainly regards modeling of biological and physiological systems, at whole body, organ, molecular and sub molecular levels. It includes methodological aspects as well as specific applications in biology, physiology and medicine. Particular importance is given to areas including glucose metabolism, insulin secretion and signalling, amino acid kinetics and protein turnover, gene and protein regulatory networks, quantitative analysis of electrophysiological signals. She is author/coauthor of a book and 160 full papers on international peer reviewed journals.

Bibliometric indicators

ISI Web of Science: H Index=41; total number of citations=5085; self-citations excluded=4706.

Google Scholar: H Index=54; total number of citations 11242.

Grants

- MIUR-PRIN2005 “Modelli dinamici dell'espressione genica e proteica in cellule progenitrici endoteliali nell'evoluzione del diabete” (2006-07) PI
- Cariparo Excellence Projects : Systems Biology approaches to infer gene and protein time-series expression data (2008-11) PI
- BIRD2016 – Padova University " Stochastic modeling of HPV-16 gene network” (2016-18) PI
- EU Research Programs : DIAdvisor (2008-2012), AP@home (2010-2014), SUMMIT (2009-2014), PULSE (2017-2020) Co-investigator
- NIH/NIBIB 2005-09 “Glucose and lipid metabolism in obese adolescents”, Baylor College of Medicine, Houston, TX Co-investigator
- JDRF 2005-09 “Beta cell regeneration in humans, a therapy for type I diabetes?”, University of California, Los Angeles, Co-investigator

Supervision activity

13 PhD students and post-doc in the last ten years.