Personal Information Giovanni D'Angelo

Business:
Institute of Protein Biochemistry
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Born: 27th Sept. 1979
1 Son: 16th Feb. 2017

Academic Degrees and Education

2011- current	**Researcher 3rd level (equivalent to Assistant Professor)**. National Research Council of Italy, Institute of Protein Biochemistry, Naples, Italy.
Sept 2016	**Visiting Scientist (CNR short term mobility fellowship)**. Stony Brook Cancer Center. Stony Brook School of Medicine, Stony Brook University, NY, USA
Jan 2016	**Visiting Scientist.** International Mass Imaging Center and Department of Cellular and Molecular Anatomy, Hamamatsu University, School of Medicine, Hamamatsu, Japan
2009-2011	**Postdoctoral fellow.** Telethon Institute for Genetics and Medicine, Naples, Italy.
2008-2009	**Postdoctoral fellow.** Department of Cell Biology and Oncology, Consorzio 'Mario Negri' Sud, Santa Maria Imbaro, Italy
2004-2008	**Ph.D.** Open University PhD Programme, Department of Cell Biology and Oncology, Consorzio 'Mario Negri' Sud, Santa Maria Imbaro, Italy. Ph.D. thesis title: FAPPs involvement in the formation of Post Golgi Complex Carriers.
1998-2003	**Master Degree in Medical Biotechnology with honours**. (110/110 Magna cum Laude). University 'Federico II' of Naples, School of Medicine, Department of Biochemistry and Medical Biotechnology, Naples, Italy. Thesis Title: Intracellular transport of CD8-apha glycoprotein along the secretory pathway.
1995-1998	**Maturità Classica (A-Level equivalent) Military School 'Nunziatella' of Naples**. Grammar School. Marks: 60/60

Technical Experience

2016- current MALDI-imaging mass spectrometry of tissues and single cells

2011- current Laboratory financial and scientific managing, grant writing, scientific paper writing, congress organization, teaching, Ph.D. students supervision, organization of international scientific networks, public outreach activities, institutional website set-up and managing.

2010- current co-expression based gene networks analysis, microarray data analysis, next generation sequencing data analysis

2004- current Lipid biochemistry techniques including: lipid extraction, HPTLC separation, lipid analysis, metabolic lipid labelling, in vitro lipid transfer assays, lipid imaging via specific toxin or antibody staining, liposomes preparation, lipid-protein interaction revealing methods.

Protein biochemistry techniques including: structure homology modelling, Surface Plamon Resonance, circular dichroism and tryptophan fluorescence shift analysis.

Imaging techniques including: confocal microscopy imaging, super resolution imaging, tissue immunohistochemistry, live imaging, FLIP, FRAP, FRET, advanced image analysis.

Cell biology techniques including: intracellular transport assays, in vitro reconstitution budding assays, cell centrifugation based organelle separation, protein immunoprecipititaion, protein co-immunoprecipitation, ChIP.

Molecular biology techniques including: cDNA cloning, site-specific mutagenesis, PCR, realtime qPCR.

2000- 2003 Standard immunofluorescence, protein metabolic labelling, velocity gradient separation, two-hybrid, stable cell clones isolation, standard SDS-PAGE/ western Blot and far Western Blot.

Teaching Experience

2017 and 2018 Lectures for the 'Molecular Biology of the Cell ' undergraduate students course at Institute Pasteur, Paris, France.

2017- current Lectures for undergraduate students integrated biology course at Second University of Naples, Italy

2013- current Lectures for Ph.D. Programme in biotechnology at Second University of

	Naples, Italy
2011- current	Supervision (Director of Studies) of 3 Ph.D. theses at Second University of Naples, Italy. External committee member for a Ph.D. theses defence at University of Lisbon, Portugal.

Awards

2016	National Research Council short term mobility fellowship
2008- 2009	Italian Federation for Cancer Research (FIRC) fellowship
2005- 2008	Italian Federation for Cancer Research (FIRC) fellowship

Personal Grants

2014- 2017	Grant Ricerca Finalizzata Italian Ministry of Health (GR-2011-02352256)	240,000 Euros
2010- 2013	My First Italian Assosiation for Cancer Research Grant (AIRC; MFAG 10585)	150,000 Euros

Conference Organization

2019	Joined international Ceramide Conference/ Sphingolipid Club meeting, Lisbon, Portugal (Dates to be decided). **Main Organizer**
2018	FEBS Special Meeting "The 2018 Golgi meeting: Membrane trafficking in cell organization and homeostasis". October 15th-18th 2018, Sorrento, Italy. **Local Organizing Committee**
2016	EMBO workshop on "Golgi and Glycosylation ". October 24th-28th 2016, Vico Equense, Italy. **Co-Organizer**
2014	EMBO workshop on "Cellular imaging of lipids ". June 2nd-6th 2014, Vico Equense, Italy. **Main Organizer**

Collaborations

Prof. Yusuf Hannun	Stony Brook Cancer Center, Stony Brook University, NY, USA.

	Sphingolipid metabolic enzymes driving signalling from the Golgi complex.
Prof. Chiara Luberto	Stony Brook Cancer Center, Stony Brook University, NY, USA. *Nutrients regulating intracellular sphingolipid metabolism.*
Prof. Christopher Burd	Department of Cell Biology, Yale University, School of Medicine, New Haven, CT, USA. *Characterization of SMS1 KO cell systems.*
Dr. Ludger Johannes	Institute Curie, Paris, France. *Characterization of MGAT5 KO cell systems.*
Prof. Thorsten Hornemann	ETH, Zurich, Switzerland. *Sphingolipid homeostatic circuits at the ER/ Golgi interface*
Dr. Alberto Luini	Institute of Protein Biochemistry-CNR, Naples, Italy. *Molecular mechanism of GOLPH3 mediated oncogenesis*
Dr. Parashuraman Seetharaman	Institute of Protein Biochemistry-CNR, Naples, Italy. *Role of Golgi matrix protein on lipid glycosylation*
Dr. Maurizio D'Esposito	Institute of Genetics and Biophysics-CNR, Naples, Italy. *Role of sphingolipid metabolic derangement in neurodevelopmental disorders*
Dr. Patrizia Stoppelli	Institute of Genetics and Biophysics-CNR, Naples, Italy. *Role of glycosphingolipids in uPAR signaling.*
Dr. Vincenza Colonna	Institute of Genetics and Biophysics-CNR, Naples, Italy. *Role of polymorphisms in glycosphingolipid transporter gene ABCA12 in human evolution.*

Invited seminars and Conferences

2017	58th International Conference on the Bioscience of Lipids – Zurich, Switzerland. (*Conference Invited Speaker, Session Chair)*
	'Molecular Biology of the Cell' Course, Institute Pasteur,- Paris, France. *(Invited Teacher)*
2016	Cornell University – New York, NY, USA. *(Invited Speaker)*
	Yale University- New Haven, CT, USA. *(Invited Speaker)*
	Stony Brook University- Stony Brook, NY, USA. *(Invited Speaker)*
	EMBO Workshop on 'Glycosylation in the Golgi Complex' - Vico Equense, Italy.

(Organizer and Speaker)

Gordon Research Conference on' Glycolipid and Sphingolipid Biology' – Barga, Italy. *(Conference Invited Speaker)*

University of Hamamatsu – Hamamatsu, Japan. *(Invited Speaker)*

2015 University of Lisbon – Lisbon, Portugal. *(Invited Speaker)*

Institute Curie – Paris, France. *(Invited Speaker)*

2014 EMBO Workshop on 'Current advancement in membrane trafficking' – Puerto Natales, Chile. *(Conference Invited Speaker)*

EMBO Workshop on 'Cellular imaging of lipids' – Vico Equense, Italy. *(Organizer and Speaker)*

2013 Golgi Apparatus Symposium- Bad Ischl, Austria. *(Conference Invited Speaker)*

2010 Gordon Research Conference on' Glycolipid and Sphingolipid Biology' – Ventura, CA, USA. *(Conference Invited Speaker)*

EMBO Global Exchange Lecture Course on 'Molecular Mechanism of Protein Transport' – Bangalore, India. *(Invited Speaker)*

Patents

2013 Inhibitors of FAPP2 and uses thereof (WO2015011284 A2)

Non-Academic publications

2013 The descent of language - A conversation between two jobless biologists; S&F_n. 10_2013; ISSN 2036-2927

Academic Publications

Glycosphingolipid Metabolic Reprogramming Drives Neural Differentiation
Russo D, Della Ragione F, … , and D'Angelo G. *(corresponding author)*
EMBO J. 2017 *In Press*.

Sphingolipid metabolic flow controls phosphoinositide turnover at the trans-Golgi network.
Capasso S, Sticco L, … , and D'Angelo G. *(corresponding author)*
EMBO J. 2017 Jun 14;36(12):1736-1754.

GOLPH3 and oncogenesis: What is the molecular link?

R Rizzo, S Parashuraman, G D'Angelo, A Luini
Tissue and Cell, 2017; 49 (2), 170-174

Glycosphingolipid–Protein Interaction in Signal Transduction
D Russo, S Parashuraman, G D'Angelo
International journal of molecular sciences. 2016; 17 (10), 1732

Valproic acid potentiates the anticancer activity of capecitabine in vitro and in vivo in breast cancer models via induction of thymidine phosphorylase expression.
Terranova-Barberio M, Roca MS, Zotti AI, Leone A, Bruzzese F, Vitagliano C, Scogliamiglio G, Russo D, D'Angelo G, Franco R, Budillon A, Di Gennaro E.
Oncotarget. 2016 Feb 16;7(7):7715-31.

Glycosphingolipids: synthesis and functions
D'Angelo G, Capasso S, Sticco L, Russo D. *(corresponding author)*
FEBS jounal 2013 Dec;280(24):6338-53

Vesicular and non-vesicular transport feed distinct glycosylation pathways in the Golgi.
D'Angelo G et al.
Nature. 2013 Sep 5;501(7465):116-20

Connecting vesicular transport with lipid synthesis: FAPP2.
D'Angelo G, Rega LR, De Matteis MA.
Biochim Biophys Acta. 2012 Aug;1821(8):1089-95.

Phosphatidylinositol-4-phosphate: the golgi and beyond.
De Matteis MA, Wilson C, D'Angelo G.
Bioessays. 2013 Jul;35(7):612-22

Identification of microRNA-regulated gene networks by expression analysis of target genes.
Gennarino VA, D'Angelo G, et al.
Genome Res. 2012 Jun;22(6):1163-72

Phosphoinositides in Golgi complex function.
D'Angelo G, Vicinanza M, Wilson C, De Matteis MA.
Subcell Biochem. 2012;59:255-70.

Reverse-Engineering and Analysis of Genome-Wide Gene Regulatory Networks from Gene Expression Profiles Using High-Performance Computing. Belcastro V, ... D'Angelo G, et al.
IEEE/ACM . 2011 Mar 22.

The Golgi apparatus: an organelle with multiple complex functions.
Wilson C, Venditti R, Rega LR, Colanzi A, D'Angelo G, De Matteis MA.
Biochem J. 2011 Jan 1;433(1):1-9.

GRASP65 and GRASP55 sequentially promote the transport of C-terminal valine-bearing cargos to and through the Golgi complex
G D'Angelo, L Prencipe, L Iodice, G Beznoussenko, M Savarese, ...
Journal of Biological Chemistry. 2009 284 (50), 34849-34860

Function and dysfunction of the PI system in membrane trafficking
M Vicinanza, G D'Angelo, A Di Campli, MA De Matteis
The EMBO journal, 2008 27 (19), 2457-2470

Phosphoinositides as regulators of membrane trafficking in health and disease.
M Vicinanza, G D'Angelo, A Di Campli, MA De Matteis
Cellular and molecular life sciences, 2008: CMLS 65 (18), 2833-2841

Lipid-transfer proteins in biosynthetic pathways
G D'Angelo, M Vicinanza, MA De Matteis
Current opinion in cell biology, 2008 20 (4), 360-370

The multiple roles of PtdIns (4) P–not just the precursor of PtdIns (4, 5) P2
G D'Angelo, M Vicinanza, A Di Campli, MA De Matteis
Journal of Cell Science, 2008 121 (12), 1955-1963

Glycosphingolipid synthesis requires FAPP2 transfer of glucosylceramide
G D'Angelo, E Polishchuk, G Di Tullio, M Santoro, A Di Campli, A Godi, ...
Nature, 2007 449 (7158), 62-67

Lipid-transfer proteins in membrane trafficking at the Golgi complex
MA De Matteis, A Di Campli, G D'Angelo
Biochimica et Biophysica Acta (BBA)-, 2007, 1771 (6), 761-768

The role of the phosphoinositides at the Golgi complex
MA De Matteis, G D'Angelo
Biochemical Society Symposia , 2007, 74, 107-116

Naples, September 8th, 2017

Giovanni D'Angelo, PhD