

PERSONAL INFORMATION

Domenico Russo



IEOS - Istituto per l'Endocrinologia e l'Oncologia "Gaetano Salvatore"-Sede secondaria.
Via Pietro Castellino 111, 80131 Naples (Italy)



Sex | Date of birth | Nationality

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input checked="" type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- Dec 1st 2021-at present **Researcher scientist**
CNR - Institute for Experimental Endocrinology and Oncology (IEOS) – Secondary Unit
Via Pietro Castellino, 111, 80131 Napoli, Italy
Study of the mechanism of action of the GOLPH3 oncogene and of the role of glycosylation in cancer.
Cell biology, biochemistry, oncology.
- Jan 2019 – Aug 2021 **Researcher fellow**
Institute of Biochemistry and Cell Biology (IBBC), CNR, Via Pietro Castellino, 111, 80131 Napoli, Italy.
▪ Study of the mechanism of action of the GOLPH3 oncogene.
Cell biology, biochemistry, oncology.
- Jan 2015 – Dec 2018 **Researcher fellow**
Institute of Protein Biochemistry (IBP), CNR, Via Pietro Castellino, 111, 80131 Napoli, Italy.
Study of the role of glycosphingolipids during neuronal differentiation.
Cell biology, biochemistry, development.

EDUCATION AND TRAINING

- Nov 2011 – Dec 2014 **Ph.D. in Molecular and Cellular biotechnology** at The Second University of Naples (SUN).
Host Institutions: Institute of Protein Biochemistry (IBP), CNR, Via Pietro Castellino, 111, 80131 Napoli, Italy. Thesis title: "Glycosphingolipids dependent regulatory circuits controlling gene expression". Supervisors: Dr Giovanni D'Angelo.
▪ Cell signalling, biochemistry, cell biology, development, glycosphingolipids metabolism.
- Feb 2008 – July 2011 **Master Degree in Biology** (grade 110/110 summa cum laude)
Università degli Studi di Napoli "Federico II", Naples (Italy)
Thesis: The filamentous bacteriophage fd as an antigenic delivery system to dendritic cells: a new type of vaccine. Supervisor: Dr. Piergiuseppe De Berardinis (CNR).
Biochemistry, molecular biology, oncology, immunology.

WORK ACTIVITIES

- Awards**
- Editorial activity** Reviewer for international journals: Elife, Molecular Biology of the Cells, Journal of Cell Sciences, Scientific Reports, Life Science Alliance

Invited presentations	Invited speaker at 019 FEBS Special Meeting in Sphingolipid Biology. Cascais, Portugal, May 6-10 2019 Organizer of the EMBO Workshop “Trafficking and Glycosylation at the Golgi apparatus 16 – 19 April 2024 Sorrento, Italy
Grants	Italian Ministry of University and Research (MUR), grant number PRIN2022PNRR P2022MMPXH EU funding within the MUR PNRR “National Center for Gene Therapy and Drugs based on RNA Technology” (Project no. CN00000041 CN3 RNA)
Patents	

ADDITIONAL INFORMATION

Publications	<p>Endogenous and exogenous regulatory signaling in the secretory pathway: role of Golgi signaling molecules in cancer. S Del Giudice, V De Luca, S Parizadeh, D Russo, A Luini, R Di Martino Frontiers in Cell and Developmental Biology 10, 833663</p> <p>Role of the mosaic cisternal maturation machinery in glycan synthesis and oncogenesis P Sahu, A Balakrishnan, R Di Martino, A Luini, D Russo Frontiers in cell and developmental biology 10, 842448</p> <p>Glycosphingolipids: synthesis and functions. G D'Angelo, S Capasso, L Sticco, D Russo The FEBS journal 280 (24), 6338-6353</p> <p>Sphingolipid metabolic flow controls phosphoinositide turnover at the trans-Golgi network. S Capasso, L Sticco, R Rizzo, M Pirozzi, D Russo, NA Dathan, F Campelo, et al., The EMBO journal 36 (12), 1736-1754</p> <p>Vaccination with filamentous bacteriophages targeting DEC - 205 induces DC maturation and potent anti - tumor T - cell responses in the absence of adjuvants. R Sartorius, C Bettua, L D'Apice, A Caivano, M Trovato, D Russo, I Zaroni, et al., European journal of immunology 41 (9), 2573-2584.</p> <p>Valproic acid potentiates the anticancer activity of capecitabine in vitro and in vivo in breast cancer models via induction of thymidine phosphorylase expression. M Terranova-Barberio, MS Roca, AI Zotti, A Leone, F Bruzzese, Vitagliano C, Scogliamiglio G, Russo D, et al., Oncotarget 7 (7), 7715.</p> <p>Glycosphingolipid metabolic reprogramming drives neural differentiation. D Russo, F Della Ragione, R Rizzo, E Sugiyama, F Scalabri, K Hori, et al., The EMBO journal 37 (7), e97674.</p> <p>Glycosphingolipid–protein interaction in signal transduction. D Russo, S Parashuraman, G D'Angelo International journal of molecular sciences 17 (10), 1732.</p> <p>Glycosphingolipid metabolism in cell fate specification. D Russo, L Capolupo, JS Loomba, L Sticco, G D'Angelo. Journal of cell science 131 (24), jcs219204.</p> <p>Translation of genome to glycome: role of the Golgi apparatus. P Pothukuchi, I Agliarulo, D Russo, R Rizzo, F Russo, S Parashuraman. FEBS letters 593 (17), 2390-2411.</p> <p>Golgi maturation - dependent glycoenzyme recycling controls glycosphingolipid biosynthesis and cell growth via GOLPH3. R Rizzo*, D Russo*, K Kurokawa, P Sahu, B Lombardi, D Supino, et al., * this authors equally contributed. The EMBO Journal 40 (8), e107238.</p> <p>GRASP55 regulates intra - Golgi localization of glycosylation enzymes to control glycosphingolipid biosynthesis. P Pothukuchi, I Agliarulo, M Pirozzi, R Rizzo, D Russo, G Turacchio, et al., The EMBO journal 40 (20), e10776.</p> <p>Number of publications: 12 H-index: 11 Scholar, 11 Scopus Total number of citation: 863</p>
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Napoli, 25/07/2024