

Federica Rota

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Personal Data

Full name Federica Rota
Date of birth April 30, 1982
Place of birth Romano di Lombardia, Bergamo, Italy
Nationality Italian
Gender Female
1 Apr 2016- AIRC fellowship at Fondazione Irccs Ca' Granda Ospedale
31 Dec. 2018 Maggiore Policlinico
1 Jan 2012- Post-Doc position at the Departement of Environmental and
31 Dec 2015 Occupational Health- Università degli Studi di Milano
1 Jan 2009-
31 Dec 2011 PhD in Occupational Medicine and Industrial Hygiene

Work History

1 Jan 2008- temporary fellowship at the IFOM IEO campus, via Adamello 16,
31 Dec 2008 Milano
2005- 17 Dec 2007 Thesis in the group of P.P. Di Fiore
FIRC Institute of Molecular Oncology (IFOM), Milan, Italy
Topic: "EAR MESENCHYMAL STEM CELLS: characterization
of new cellular model to study the role of Eps8 in adipocytes
differentiation and function"

Education

2007 Master Degree in Molecular cell biology
mark: 109/110
University Statale of Milano
2004 Degree in Medic Biotechnologies
Mark: 103/110
University Statale of Milano
2001 Diploma in classical lyceum
mark: 95/100
Liceo classico statale "simone weil"
Treviglio, Bergamo, Italy

Technical skills

Clinical Research GCPs, Clinical Research Methodology, Monitoring procedures.
Cellular Biology Mammalian Cell Culture, Ear mesenchymal stem cells, Fibroblast
Primary Culture, Cell Transfection and Infection, RNAi,
Immunofluorescence microscopy, Confocal Microscopy
Molecular Biology PCR, DNA Electrophoresis, RNA Extraction, Q-RT-PCR,
E.Coli Trasformation, Plasmid purification
Biochemistry Western Blotting, Immunoprecipitations,
PullDown, Recombinant Protein Expression in E.Coli and
Mammalian cells, His- or GST-tagged proteins Purification,
in-vitro Phosphatase
Mouse Genetic "Mouse-handling", Colony management, Genotyping, phenotypical
study of Knockout mice
Histology Surgery and Processing of mouse tissue, Immuno-histological
Techniques
Informatic Windows, Mac OS, Office, Photoshop, ImageJ

Languages

Mother Tongue Italian
Other languages English, French

Publications

Bollati V, A. Baccarelli, S. Sartori, L. Tarantini, V. Motta, **F. Rota**, G. Costa. *Epigenetic effects of shiftwork on blood DNA methylation.*

Chronobiol Int. 27: 1093-1104

Pavanello S, Fedeli U, Mastrangelo G, **Rota F**, Overvad K, Raaschou-Nielsen O, Tjønneland A, Vogel U. *Role of CYP1A2 polymorphisms on lung cancer risk in a prospective study.*

Cancer Genet. 2012 Jun;205(6):278-84.

Bollati V, Angelici L, Rizzo G, Pergoli L, **Rota F**, Hoxha M, Nordio F, Bonzini M, Tarantini L, Cantone L, Pesatori AC, Apostoli P, Baccarelli AA, Bertazzi PA. *Microvesicle-associated microRNA expression is altered upon particulate matter exposure in healthy workers and in A549 cells.*

J Appl Toxicol. 2014 Feb 7. doi: 10.1002/jat.2987.

Bollati V, Iodice S, Favero C, Angelici L, Albeti B, Cacace R, Cantone L, Carugno M, Cavalleri T, De Giorgio B, Dioni L, Fustinoni S, Hoxha M, Marinelli B, Motta V, Patrini L, Pergoli L, Riboldi L, Rizzo G, **Rota F**, Sucato S, Tarantini L, Tirelli AS, Vigna L, Bertazzi P, Pesatori AC. *Susceptibility to particle health effects, miRNA and exosomes: rationale and study protocol of the SPHERE study.*

BMC Public Health. 2014 Nov 4;14:1137. doi: 10.1186/1471-2458-14-1137.

Chambers JC, Loh M, Lehne B, Drong A, Kriebel J, Motta V, Wahl S, Elliott HR, **Rota F**, Scott WR, Zhang W, Tan ST, Campanella G, Chadeau-Hyam M, Yengo L, Richmond RC, Adamowicz-Brice M, Afzal U, Bozaoglu K, Mok ZY, Ng HK, Pattou F, Prokisch H, Rozario MA, Tarantini L, Abbott J, Ala-Korpela M, Albeti B, Ammerpohl O, Bertazzi PA, Blancher C, Caiazzo R, Danesh J, Gaunt TR, de Lusignan S, Gieger C, Illig T, Jha S, Jones S, Jowett J, Kangas AJ, Kasturiratne A, Kato N, Kotea N, Kowlessur S, Pitkäniemi J, Punjabi P, Saleheen D, Schafmayer C, Soininen P, Tai ES, Thorand B, Tuomilehto J, Wickremasinghe AR, Kyrtopoulos SA, Aitman TJ, Herder C, Hampe J, Cauchi S, Relton CL, Froguel P, Soong R, Vineis P, Jarvelin MR, Scott J, Grallert H, Bollati V, Elliott P, McCarthy MI, Kooner JS. *Epigenome-wide association of DNA methylation markers in peripheral blood from Indian Asians and Europeans with incident type 2 diabetes: a nested case-control study.*

Lancet Diabetes Endocrinol. 2015 Jul;3(7):526-34. doi: 10.1016/S2213-8587(15)00127-8. Epub 2015 Jun 18.

Conti A, **Rota F**, Ragni E, Favero C, Motta V, Lazzari L, Bollati V, Fustinoni S, Dieci G. *Hydroquinone induces DNA hypomethylation-independent overexpression of retroelements in human leukemia and hematopoietic stem cells.*

Biochem Biophys Res Commun. 2016 Jun 10;474(4):691-5. doi: 10.1016/j.bbrc.2016.05.010. Epub 2016 May 3.

Wahl S, Drong A, Lehne B, Loh M, Scott WR, Kunze S, Tsai PC, Ried JS, Zhang W, Yang Y, Tan S, Fiorito G, Franke L, Guarrera S, Kasela S, Kriebel J, Richmond RC, Adamo M, Afzal U, Ala-Korpela M, Albeti B, Ammerpohl O, Apperley

JF, Beekman M, Bertazzi PA, Black SL, Blancher C, Bonder MJ, Brosch M, Carstensen-Kirberg M, de Craen AJ, de Lusignan S, Dehghan A, Elkalaawy M, Fischer K, Franco OH, Gaunt TR, Hampe J, Hashemi M, Isaacs A, Jenkinson A, Jha S, Kato N, Krogh V, Laffan M, Meisinger C, Meitinger T, Mok ZY, Motta V, Ng HK, Nikolakopoulou Z, Nteliopoulos G, Panico S, Pervjakova N, Prokisch H, Rathmann W, Roden M, **Rota F**, Rozario MA, Sandling JK, Schafmayer C, Schramm K, Siebert R, Slagboom PE, Soininen P, Stolk L, Strauch K, Tai ES, Tarantini L, Thorand B, Tigchelaar EF, Tumino R, Uitterlinden AG, van Duijn C, van Meurs JB, Vineis P, Wickremasinghe AR, Wijmenga C, Yang TP, Yuan W, Zhernakova A, Batterham RL, Smith GD, Deloukas P, Heijmans BT, Herder C, Hofman A, Lindgren CM, Milani L, van der Harst P, Peters A, Illig T, Relton CL, Waldenberger M, Järvelin MR, Bollati V, Soong R, Spector TD, Scott J, McCarthy MI, Elliott P, Bell JT, Matullo G, Gieger C, Kooner JS, Grallert H, Chambers JC. *Epigenome-wide association study of body mass index, and the adverse outcomes of adiposity*. Nature. 2016 Dec 21. doi: 10.1038/nature20784. [Epub ahead of print]