CURRICULUM VITAE VALERIA SORDI

• PERSONAL INFORMATION

Name: Valeria Daniela Sordi
Date and place of birth: April 23rd, 1976. Milan (Italy)
Current address: via Monza 59, 20063 Cernusco s/N, Milano.
mobile phone: +393493769759
e-mail: sordi.valeria@hsr.it
Lab address: Beta Cell Biology Unit
Diabetes Research Institute, San Raffaele Hospital
Via Olgettina 60, 20132, Milan
Languages: Italian, English, Spanish

• EDUCATION, CURRENT AND PREVIOUS POSITIONS

2015-present **Project leader at Diabetes Research Institute, San Raffaele Hospital, Milan**

2012-2015 Post-doctoral fellowship at Diabetes Research Institute, San Raffaele Hospital, Milan

2005-2011 PhD (Dr rer med, magna cum laude) at Technical University
Dresden, Germany
Thesis title: "Pancreatic mesenchymal stem cells: biology, origin and potential for diabetes therapy"
Supervisor: Prof Ezio Bonifacio

2003-2011 Fellowship Università Vita-Salute San Raffaele
Diabetes Research Institute,
San Raffaele Scientific Institute, Milan
Supervisor: Dr Lorenzo Piemonti, Prof Valerio Di Carlo

2002-2003 Fellowship
Immunology of Diabetes Unit, San Raffaele Scientific Institute, Milan
Supervisor: Dr Ezio Bonifacio

2001 Biological Sciences Degree – 104/110
Faculty of Biological Sciences - Università degli Studi di Milano

1999-2001 Pre Graduation training
Molecular Genetic laboratory, Department of Medicine,
San Raffaele Scientific Institute
Thesis title: Analysis of humoral autoimmunity to CD38 in diabetes mellitus"
Supervisor: Dr Ezio Bonifacio, Dr Maurizio Ferrari

• AWARDS

Winner of "Angela Bertin Prize" 2008 by Sanofi-Aventis for diabetes research
Selected in 2012 for the International Educational Programme "Rising Star" by Sanofi with the supervision of International Diabetes Center and WHO.

Research grant as PI or Co-PI

1. Induced pluripotent stem cells (hIPS) as a source of insulin producing cells.

Italian Ministry of Health (Bando Cellule Staminali)
210,000 EU 2011-2012
Coordinator: Lorenzo Piemonti Co-PIs: Vania Broccoli, Valeria Sordi

2. Co-transplantation of mesenchymal stem cells and pancreatic islets: a preclinical study to evaluate the effect on engraftment and immunoresponse after co-localization in the bone marrow.
Italian Ministry of Health (Giovani Ricercatori)
442,000 EU 2011-2014
PI: Valeria Sordi

3. Beta cell generation by stem cell derived implants in diabetes
EU Horizon 2020 (Call H2020-PHC-2015-single-stage_RTD Clinical research on regenerative)
1,200,000 EU 2016-2020
PI: Lorenzo Piemonti (VS as key personnel in WP8, 9 and 10)

4. Role of Endothelial and Mesenchymal Cells in the Generation of Functional Human β Cells from Pluripotent Stem Cells
Società Italiana Diabetologia SID and Eli-Lilly
50000 EU 2018-2019
PI: Valeria Sordi

5. A role for the intestine in type 1 diabetes autoimmunity
EFSD/JDRF/Lilly European Programme in Type 1 Diabetes Research
100000 EU 2018-2019
PI: Valeria Sordi

Publications
(44 publications, 14 first name, 2 last name, h-index: 17)

1. Pellegrini S, Manenti F, Chimienti R, Nano R, Ottoboni L, Ruffini F, Martino G, Ravassard P, Piemonti L, Sordi V
Differentiation of Sendai virus-reprogrammed iPSC into β cells, compared to human pancreatic islets and immortalized β cell line.
(under revision)

2. Maffi P, Nano R, Monti P, Melzi R, Sordi V, Mercalli A, Pellegrini S, Ponzoni M, Peccatori J, Messina C, Nocco A, Cardillo M, Scavini M, Doglioni C, Ciceri F, Roep B, Secchi A, Piemonti L
Islet allotransplantation in the bone marrow of patients with type 1 diabetes: a pilot randomized trial.
(under revision)

3. Capua I, Mercalli A, Romero-Tejeda A, Pizzuto MS, Kasloff S, Sordi V, Marzinotto I, Lampasona V, Vicenzi E, De Battisti C, Bonfanti R, Rigamonti A, Terregino C, Doglioni C, Cattoli G, Piemonti L
Study of 2009 H1N1 pandemic influenza virus as causative agent of diabetes.
(under revision)

4. Dugnani E, Sordi V, Pellegrini S, Pasquale V, Liberati D, Balzano G, Doglioni C, Reni M, Gandolfi A, Falconi M, Piemonti L
KRT19, PAX6 and PDX1 mRNA expression predicts the pattern of relapse in resected pancreatic ductal adenocarcinoma
(under revision)

5. Cito M, Pellegrini S, Piemonti L, Sordi V
The potential and challenges of alternative sources of β cell for the cure of type 1 diabetes
Endocrine Connections 2018 Mar;7(3):R114-R125 (IF 2.5)

6. Coccè V, Brini A, Gianni AL, Sordi V, Berenzi A, Alessandri G, Tremolada C, Versari S, Bosetto A, Pessina A
A nonenzymatic and automated closed-cycle process for the isolation of mesenchymal stromal cells in drug delivery applications.
Stem Cells International. 2018 Feb 20;2018:4098140 (IF 3.5)

7. Marzinotto I, Pellegrini S, Brigatti C, Nano R, Melzi R, Mercalli A, Liberati D, Sordi V, Ferrari M, Falconi M, Doglioni C, Ravassard P, Piemonti L, Lampasona V.
miR-204 is associated with an endocrine phenotype in human pancreatic islets but does not regulate the insulin mRNA through MAFA.
Sci Rep. 2017 Oct 25;7(1):14051. doi: 10.1038/s41598-017-13622-7. (IF 4.2)

8. Sordi V, Pellegrini S, Piemonti L.
Immunological Issues After Stem Cell-Based β Cell Replacement.
Curr Diab Rep. 2017 Sep;17(9):68. doi: 10.1007/s11892-017-0901-4. (IF 3.3)

9. Sordi V, Pellegrini S, Krampera M, Marchetti P, Pessina A, Ciardelli G, Fadini G, Pintus C, Pantè G, Piemonti L.
Stem cells to restore insulin production and cure diabetes.
Nutr Metab Cardiovasc Dis. 2017 Jul;27(7):583-600. doi: 10.1016/j.numecd.2017.02.004.

10. Pellegrini S*, Sordi V*, Bolla AM, Saita D, Ferrarese R, Canducci F, Clementi M, Invernizzi F, Mariani A, Bonfanti R, Barera G, Testoni PA, Doglioni C, Bosi E, Piemonti L
Duodenal mucosa of patients with type 1 diabetes shows distinctive inflammatory profile and microbiota
J Clin Endocrinol Metab. 2017 May 1;102(5):1468-1477. doi: 10.1210/jc.2016-3222.

11. Sebastiani G, Valentini M, Ventriglia G, Grieco GE, Pellegrini S, Sordi V, Piemonti L, Dotta F
MicroRNA expression profiles during differentiation of human induced pluripotent stem cells into insulin-producing cells
Acta Diabetol. 2017 Mar;54(3):265-281. doi: 10.1007/s00592-016-0955-9.

12. Sordi V, Ferri A, Ceserani V, Ciusani E, Dugnani E, Pellegrini S, Nano R, Pecciarini L, Pessina A, Pascucci L, Piemonti L* and Alessandri G*
Establishment, characterization and long term culture of human endocrine pancreas-derived microvascular endothelial cells
Cytotherapy. 2016 Nov 11. doi: 10.1016/j.jcyt.2016.10.005.

13. Vignali D, Gürth CM, Pellegrini S, Sordi V, Sizzano F, Piemonti L, Monti P.
IL-7 Mediated Homeostatic Expansion of Human CD4+CD25+FOXP3+ Regulatory T Cells After Depletion With Anti-CD25 Monoclonal Antibody.
Transplantation. 2016 Sep;100(9):1853-61. (IF 3.124)

14. Bonomi A, Steimberg N, Benetti A, Berenzi A, Alessandri G, Pascucci L, Boniotti J, Coccè V, Sordi V, Pessina A
Paclitaxel-releasing mesenchymal stromal cells inhibit the growth of Multiple Myeloma cells in a dynamic 3D culture system
Hematol Oncol. 2016 Jun 10. doi: 10.1002/hon.2306 (IF 3.084)

15. Pellegrini S, Cantarelli E, Sordi V, Nano R, Piemonti L
The state of the art of islet transplantation and cell therapy in type 1 diabetes
Acta diabetologica 2016 Feb 29 (IF 2.399)

16. Reni M, Dugnani E, Cereda S, Belli C, Balzano G, Nicoletti R, Liberati D, Pasquale V, Scavini M,. Maggiora P, Sordi V, Lampasona V, Ceraulo D; DI Terlizzi G, Doglioni C, Falconi M; Piemonti L
(Ir)relevance of metformin treatment in patients with metastatic pancreatic cancer: an open-label, randomized phase 2 trial.
Clin Cancer Res. 2015 Oct 12. pii: clincanres.1722.2015 (IF 8.722)

17. Peloso A, Katari R, Urbani L, Maghsoudlou P, Alvarez Fallas ME, Sordi V, Citro A, Niu G, Delario G, Willis C, Farney AC, Rogers J, Stratta RJ, Opara EC, De Coppi P, Piemonti L, Soker S, Orlando G
The human pancreas as a source of extracellular matrix scaffold for a new generation bio-artificial endocrine pancreas.
Ann Surg. 2015 Nov 26. [Epub ahead of print] (IF 8.327)

18. Bonomi A, Sordi V, Dugnani E, Ceserani V, Dossena M, Coccè V, Cavicchini
L, Ciusani E, Bondiolotti G, Piovani G, Pascucci L, Sisto F, Alessandri A, Piemonti L, Parati E, Pessina A
Gemcitabine Releasing-Mesenchymal Stromal Cells inhibit in vitro proliferation of human pancreatic carcinoma cells
Cytotherapy. 2015 Oct 16. pii: S1465-3249(15)01061-0. (IF 3.293)

19. Ferri ALM, Schiariti MP, Tosetti V, Ceserani V, Sordi V, Visintin S, Ferroli P, Bersano A, Parati E
Human Adipose Tissue Derived Mesenchymal Stromal Cells modulate intervertebral disc degeneration-induced inflammatory response and differentiate to Nucleus pulposus-like cells: perspective for use in the treatment of intervertebral disc degeneration.
CellR4 2015; 3 (3): e1581

20. Pellegrini S, Ungaro F, Mercalli A, Melzi R, Sebastiani G, Dotta F, Broccoli V, Piemonti L, Sordi V
Human induced pluripotent stem cells differentiate into insulin producing cells able to engraft in vivo.
Acta Diabetol. 2015 Dec;52(6):1025-35 (IF 3.679)

21. Cantarelli E, Pellegrini S, Citro A, Sordi V, Piemonti L
Bone marrow- and cord blood-derived stem cell transplantation for diabetes therapy
CellR4 2015; 3 (1): e1408

22. Pellegrini S, Sordi V, Piemonti L
Alternative sources of beta cells for a cell-based therapy of diabetes
Internal and Emergency Medicine 8. 2013 (IF 2.41)

23. Maffi P, Balzano G, Ponzoni M, Nano R, Sordi V, Melzi R, Mercalli A, Scavini M, Esposito A, Peccatori J, Cantarelli E, Messina C, Bernardi M, Del Maschio A, Staudacher C, Doglioni C, Ciceri F, Secchi A, Piemonti L.
Autologous Pancreatic Islet Transplantation in Human Bone Marrow.
Diabetes. 2013 Oct;62(10):3523-31 (IF 8.474)

24. Mercalli A, Calavita I, Dugnani E, Citro A, Cantarelli E, Nano R, Melzi R, Maffi P, Secchi A, Sordi V, Piemonti L.
Rapamycin unbalances the polarization of human macrophages to M1.
Immunology. 2013 May 25. doi: 10.1111/imm.12126 (IF 3.735)

25. Piemonti L, Everly MJ, Maffi O, Scavini M, Poli F, Nano R, Cardillo M, Melzi R, Mercalli A, Sordi V, Lampasona V, Scalamogna M, Bosi E, Bonifacio E, Secchi A, Terasaki PI
Immune monitoring of pancreatic islet graft by alloantibody and autoantibody detection
Diabetes. 2013 May;62(5):1656-64. (IF 8.474)

26. Nano R, Racanicchi L, Melzi R, Mercalli A, Maffi P, Sordi V, Ling Z, Scavini M, Korsgren O, Celona B, Secchi A, Piemonti L
Human pancraetic islet preparations release HMGB1: (Ir)relevance for graft engraftment
Cell Transplant. 2012 Oct 8. doi: 10.3727/096368912X657783. (IF 4.422)

27. Citro A, Cantarelli E, Maffi P, Nano R, Melzi R, Mercalli A, Dugnani E, Sordi V, Magistretti P, Daffonchio L, Ruffini PA, Allegretti M, Secchi A, Bonifacio E, Piemonti L
CXCR1/2 inhibition enhances pancreatic slet survival after transplantation
J Clin Invest 2012 Sep 17 (IF 12.812)

28. Mercalli A, Lampasona V, Klingel K, Albarello L, Lombardoni C, Ekström J, Sordi V, Bolla A, Mariani A, Bzhalava D, Dillner J, Roivainen M, Bosi E, Piemonti L
No evidence of enteroviruses in the intestine of patients with type 1 diabetes *Diabetologia. 2012 Sep;55(9):2479-88. (IF 6.487)*

29. Sordi V, Piemonti L
Therapeutic plasticity of stem cells and allograf tolerance
Cytotherapy. 2011 Jul;13(6):647-60. (IF 3.627)

30. Sordi V, Piemonti L
Mesenchymal stem cells as feeder cells for pancreatic islet transplant.
Rev Diabet Stud. 2010 Summer;7(2):132-43. (IF 2.553)

31. Smura T, Ylipaasto P, Klemola P, Kaijalainen S, Salmela K, Kyllonen L, Sordi V, Piemonti L, Roivainen M
Cellular tropism of human enterovirus D species serotypes EV-94, EV-70 and EV-68 in vitro- implications for pathogenesis.
J Med Virol. 2010 Nov;82(11):1940-9 (IF 2.895)

32. Melzi R, Mercalli A, Sordi V, Cantarelli E, Nano R, Maffi P, Sitia G, Guidotti L, Secchi A, Bonifacio E, Piemonti L
Role of CCL2/MCP-1 in islet transplantation
Cell Transplant. 2010;19(8):1031-46. (IF 6.204)

33. Melzi R, Antonioli B, Mercalli A, Battaglia M, Valle A, Pluchino S, Galli R, Sordi V, Bosi E, Martino G, Bonifacio E, Doglioni C, Piemonti L
Co-graft of allogeneic immune regulatory neural stem cells (NPC) and pancreatic islets mediates transplant tolerance, while inducing NPC-derived tumors in mice.
PLoS One. 2010 Apr 27;5(4):e10357 (IF 4.411)

34. Sordi V, Melzi R, Mercalli A, Formicola R, Doglioni C, Ferrari G, Antonioli B, Nano R, Chwalek K, Lammert E, Bonifacio E, Piemonti L
Mesenchymal cells appearing in pancreatic tissue culture are bone-marrow derived stem cells with the capacity to improve transplanted islet function
Stem Cells. 2010 Jan;28(1):140-51 (IF 7.871)

35. Cantarelli E, Melzi R, Mercalli A, Sordi V, Ferrari G, Werner Lederer C, Mrak E, Rubinacci A, Ponzoni M, Sitia G, Guidotti LG, Bonifacio E, Piemonti L
Bone marrow as an alternative site for islet transplantation
Blood. 2009 Nov 12;114(20):4566-74 (IF 10.555)

36. Melzi R, Maffi P, Nano R, Sordi V, Mercalli A, Scavini M, Secchi A, Bonifacio E, Piemonti L
Rapamycin does not adversely affect intrahepatic islet engraftment in mice and improves early islet engraftment in humans
Islets. 2009 Jul-Aug;1(1):42:9 (IF 1.123)

37. Sordi V
Mesenchymal stem cells homing capacity
Transplantation. 2009 May 15;87(9 Suppl):S42-5. (IF 3.816)

38. Sordi V, Piemonti L
The contribution of hematopoietic stem cells to beta cell replacement
Curr Diab Rep. 2009 Apr;9(2):119-24. (IF 3.377)

39. Sordi V, Nano R, Melzi R, Antonioli B, Piemonti L
Beta cell transplantation for diabetes therapy
The Lancet 2008 Jul;372(9632):28 (IF 28.409)

40. Sordi V, Bertuzzi F, Piemonti L
Diabetes mellitus: an opportunity for therapy with stem cells?
Regen Med 2008 May;(3):377-97.2,786 (IF 2.786)

41. Ogliari AC, Caldara R, Socci C, Sordi V, Cagni N, Moretti P, Dell'Acqua A, Mercalli A, Scavini M, Secchi A, Bonifacio E, Bosi E, Piemonti L
High levels of donor CCL2/MCP-1 predict graft-related complications and poor graft survival after kidney-pancreas transplantation.
American Journal of Transplantation 2008, 8:1-9. (IF 6.559)

42. Mercalli A, Sordi V, Formicola R, Dandrea M, Beghelli S, Scarpa A, Di Carlo V, Reni M, Piemonti L
A preclinical evaluation of Pemetrexed and Irinotecan combination as second line chemotherapy in pancreatic cancer.
British Journal of Cancer, 2007, 96(9):1358-67. (IF 4.846)

43. Sordi V, Bianchi G, Buracchi C, Mercalli A, Marchesi F, D'Amico G, Yang CH, Luini W, Vecchi A, Mantovani A, Allavena P, Piemonti L
Differential effects of immunosuppressive drugs on chemokine receptor CCR7 in human monocyte-derived dendritic cells: selective upregulation by Rapamycin *Transplantation, 2006, 82(6) 177172 (IF 3.816)*

44. Mercalli A, Sordi V, Ponzoni M, Maffi P, De Taddeo F, Gatti G, Servida P, Bernardi M, Bellio L, Bertuzzi F, Secchi A, Bonifacio E, Piemonti L
Rapamycin induces a caspase-independent cell death in human monocytes**.**
American Journal of Transplantation, 2006; 6:1331-1341. (IF 6.559)

45. Sordi V, Malosio ML, Marchesi F, Mercalli A, Giordano T, Belmonte N, Ferrari G, Leone BE, Bertuzzi F, Zerbini G, Allavena P, Bonifacio E, Piemonti L
Bone marrow mesenchymal stem cells express a restricted set of functionally active chemokine receptors capable of promoting migration to pancreatic islets.
Blood 2005;106 419-427 . (IF 10.131)

46. Sordi V, Lampasona V, Cainarca S, Bonifacio E
No evidence of diabetes-specific CD38 (ADP ribosil cyclase/cyclic ADP-ribose hydrolase) autoantibodies by liquid-phase immunoprecipitation.
Diabet Med. 2005 Dec;22(12):1770-1773. (IF 2.725)

47. Monti P, Marchesi F, Reni M, Mercalli A, Sordi V, Zerbi A, Balzano G, Di Carlo V, Allavena P, Piemonti L.
A comprehensive *in vitro* characterization of pancreatic ductal carcinoma cell line biological behaviour and its correlation with the structural and genetic profile.
Virchows Arch. 2004 Jul 17. (IF 2.224)

48. Monti P, Leone BE, Zerbi A, Cainarca S, Sordi V, Postillo M, Di Carlo V, Allavena P, Piemonti L
Tumour-derived MUC1 interacts with dendritic cells and induces IL10 production and Th1/Th2 imbalance in cancer patients.
J Immunol. 2004 Jun 15;172(12):7341-9. (IF 6.486)

Invited presentations

1. Beaune Seminar in Transplantation Research, Beaune, France, 10th May 2007
Lecture: Mesenchymal stem cells homing capacity

2. Sacco Hospital, University of Milan, Specialty school in General Surgery, Milan, Italy, 20th May 2009
Lecture: The biology of pancreatic cancer

3. University of Modena and Reggio, Regenerative Medicine Seminars, Modena, Italy, 14th April 2010
Lecture: Pancreatic mesenchymal stem cells: biology, origin and potential application in diabetes therapy

4. University of Parma, Parma Diabete 2012, 21st September 2012
Lecture: The direct and indirect way of stem cells.

5. Biorad Bioplex User Meeting, Roma, 6th June 2013
Lecture: Cytokines and chemokines in islet transplantation: from Bioplex to clinical trials

5. 49th Congress of the European Association for the Study of Diabetes EASD 2013, 26thSeptember 2013
Lecture: Use of mesenchymal stem cells to improve islet function for transplantation

6. 5th EPITA Winter Symposium & 34th AIDPIT Workshop, 26th January 2015
Lecture: Mesenchymal stem cells to improve islet function for transplantation

7. 26th Congresso della società Italiana di Diabetologia SID, 5th May 2016
Lecture: Stem cells for beta cell replacement

8. 19th European Congress of Endocrinology ECE, 22nd May 2017
Lecture: Pluripotent Stem Cells for the Cure of Diabetes

9. Italian Institute of Genomic Medicine (IIGM), Torino, Italy, 27th July 2017
Lecture: Differentiation of integration-free hiPSC into insulin-producing cells

10. German Society of Organ Transplantation, Bonn, Germany, 20th October 2017

Lecture: Insulin producing cells from human induced pluripotent stem cells

11. Italian Society of Diabetology, Rimini, Italy, 17th May 2018
Lecture: Back to the future: induced pluripotent stem cells

Professional Societies and other activities

2008-present	Italian Association Study of Pancreas, Member
2010-present	European Association for the study of Diabetes (EASD), Member
2011-present	Società Italiana Diabetologia (SID), Member
2014-present	GISM (Gruppo Italiano Staminali Mesenchimali), Founding member
2014-present	European Society of Organ Transplantation/ European Pancreas and Islet Transplant Association, Member
2015-present	International Society for Stem Cell Research (ISSCR), Member
2015-present	Gruppo di Studio della Società Italiana di Diabetologia SID "Medicina rigenerativa in ambito diabetologico", member
2015-present	International Pancreas and Islet Transplantation Association (IPITA), Member

Reviewer for the peer-reviewed journals

Cytotherapy, Cell Transplantation, Cytotechnology, Transplantation, International Journal of Endocrinology, European Journal of Cell Biology.

Section Editor of Current Diabetes Reports

Training

Course on "How to improve the research proposal through non-scientific and cross-cutting aspects", OSR, 2018

Course on "Methodology of clinical trial", OSR, 2014

School of Bioinformatics, Università degli studi dell'Insubria in collaboration with EMBL EBI "Basic statistics for laboratory" and "Introduction to systems biology" 2013

Courses on Flow Cytometry, HSR FRACTAL:
"Introduction to the BD FACS DiVa Software", 2010
"Advanced course on FCS Express Analysis software", 2010
"Training for Target Figures", 2014

Course on "Optical and Electron Microscopy", HSR ALEMBIC 2008

Course on Laboratory Safety, HSR "Rischi specifici nei laboratori di ricerca" 2007

Course on the use of radioactive substances, HSR "Corso di formazione ed informazione finalizzato alla radioprotezione" 2000

Teaching activity

Thesis supervision:
1) Roberta Formicola, Università degli studi di Milano, Degree in Biological Sciences, academic year 2006-07, "Study of epithelial to mesenchymal transition in pancreatic adenocarcinoma".

2) Ilaria Panzeri, Università dell'Insubria, Degree in Biology applied to biomedical research, academic year 2008-09, "Study of cKit positive stem cells in human amniotic fluid"
3) Silvia Pellegrini, Università Vita-Salute San Raffaele, Degree in Biotechnology, academic year 2010-11, "Human induced pluripotent stem cells as a source of insulin producing cells".
4) Stefania Maniscalco, Università Vita-Salute San Raffaele, Degree in Biotechnology, academic year 2011-2012, "Pre-clinical study of co-transplantation and co-localization in the bone marrow of mesenchymal stem cells and pancreatic islets".
5) Concetta Tedesco, Università Vita-Salute San Raffaele, Degree in Biotechnology, academic year 2015-2016, "Differentiation into pancreatic β cells of human adult fibroblasts reprogrammed to induced pluripotent stem cells (iPSC) with non-integrating virus"

Valeria Sordi

Milan, 24/05/2018