

BIOGRAPHICAL SKETCH			
NAME Silvia Deaglio, M.D., Ph.D. D.o.B May 29, 1974		POSITION Associate Professor of Medical Genetics	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Torino, Italy	M.D.	1992-1998	Medicine
University of Torino, Italy	Board Certification	1998-2002	Oncology
University of Torino, Italy	Ph.D.	2002-2006	Genetics

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Personal statement

After obtaining an MD degree and training as a medical oncologist, I enrolled in the PhD program in Genetics at the University of Turin, working on the role of the functional characterization of the *CD38* gene family. In 2004-2005, I trained at the Transplant Immunology Unit of the **Beth Israel Deaconess Medical Center** of Harvard University with Drs. Simon Robson and Terry Strom, where we identified molecular components and genetic regulation of the suppressive machinery of regulatory T cells. After going back to Italy at the end of 2005 as Assistant Professor of Genetics, I obtained my first two grants as an independent investigator, focused on the genetic characterization of tumor-host interactions. From 2010 to 2019 I was principal investigator (PI) of the Immunogenetics Unit of the Human Genetics Foundation in Turin (now **Italian Institute for Genomic Medicine**, IIGM, www.hugef-torino.org), Italy. At the end of 2011 I became **Associate Professor of Genetics at the University of Torino**. From 2014 to 2016, I was **visiting associate professor at Weill Cornell Medical College**, to set up patient-derived xenograft models of CLL and Richter syndrome.

Since September 2016 I joined the Immunogenetics and Transplant Biology Unit of the **Città della Salute e della Scienza University Hospital** of Torino, with the aim of setting up a diagnostic platform to provide genetic diagnosis and counseling to patients in need of organ transplant with a suspected underlying monogenic disease and to patients with HLA-associated diseases. In addition, I am involved in the genetic typing and cross-matching for organ donors.

Positions and Employment

- 1993-1998: Internal student, Laboratory of Cell Biology, Department of Genetics, Biology and Biochemistry, University of Torino.
- 1999-2002: Oncology fellow, Oncology Division, Molinette Hospital, Torino, Italy.
- 2002-2004: Clinical attending physician, Breast Cancer Clinic, Oncology Division, Molinette Hospital, Torino, Italy.
- 2002-2006: Ph.D. student (Genetics), Laboratory of Immunogenetics, Department of Genetics, Biology and Biochemistry, University of Torino.
- 2004-2005: Instructor in Medicine and (2005) Visiting Assistant Professor, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA (Reference: Simon Robson and Terry Strom).
- 2005-2011: Assistant Professor of Medical Genetics (“Ricercatore”, “Confermato” since Jan 1, 2008), University of Torino Medical School, Torino, Italy.
- 2010-2019: PI, Immunogenetics Research Unit of the Italian Institute for Genomic Medicine (formerly Human Genetics Foundation), Turin, Italy.
- Oct 2011-: **Associate Professor of Medical Genetics, University of Torino Medical School, Torino, Italy [with qualification (abilitazione) for full professorship since January 2014, expiring January 2023].**
- 2014-2016: Visiting Associate Professor, Department of Pathology and Laboratory Medicine, Weill Cornell Medical Center, Cornell University, New York, NY.
- 2016-: Visiting scientist, Department of Medicine, Weill Cornell Medicine, Cornell University, New York, NY.

Sept 2016-: **Attending physician (dirigente medico), Servizio di Immunogenetica e Biologia dei Trapianti, Città della Salute e della Scienza Hospital, Turin, Italy.**

Research periods abroad

May 2003: Department of Hematology, Essen University (Essen, Germany)

May 2004-November 2005: Beth Israel Deaconess Medical Center, Harvard University (Boston, MA)

March 2007: The Feinstein Institute for Medical Research (Manhasset, NY)

September 2014-August 2016: Weill Cornell Medical Center (New York, NY)

Professional Memberships

2003-: American Association for Cancer Research (full member)

2004-: American Association of Immunologists (full member)

2008-: Italian Society for Experimental Hematology (full member)

2008-: American Association of Hematologists (full member)

2009-: Member of the European Research Initiative on CLL (ERIC)

2012-: Member of the Henry Kunkel Society

2015-: Member of the European Federation of Immunogenetics (EFI)

2016-: Member of the Italian Society of Human Genetics (SIGU)

Reviewer and editorial activities for:

Journal reviewer for: Blood, Leukemia, Cancer Research, Clinical Cancer Research, The Journal of Immunology, Haematologica, Molecular Medicine, Leukemia and Lymphoma, Leukemia Research, Expert Reviews in Hematology, Experimental Cell Research, European Journal of Haematology, Purinergic Signaling, Journal of Transplantation, Journal of Cancer Research and Clinical Oncology, International Journal of Molecular Sciences, Human Immunology.

Grant reviewer for: AERES, Cancer Research UK, Irish Health Research Board, European Hematology Association, Swiss National Science Foundation, Leukaemia & Lymphoma Research, Italian Ministry of Education, National Science Center of Poland, Health Research Council of New Zealand.

Member of the Editorial board of:

- Blood (https://ashpublications.org/blood/pages/editorial_board_and_staff) IF: 17.543
- Cancers (<https://www.mdpi.com/journal/cancers/editors#editorialboard>) IF: 6.126
- Editor for "Frontiers in Immunology", T cell biology section

(<http://journal.frontiersin.org/journal/immunology#editorial-board>) IF:6.4

- Associate Editor for Purinergic Signalling (<https://www.springer.com/journal/11302/editors>) IF:3.886
- Current Signal Transduction Therapy (<http://www.bentham.org/cstt/EBM.htm>);
- American Journal of Cancer Research (<http://www.ajcr.us/EditorialBoard.html>)
- Journal of Cancer Therapeutics and Research"

(<http://www.hoajonline.com/Journal-of-Cancer-Therapeutics-and-Research.html#tabs2-2>)

- World Journal of Translational Medicine (<http://www.wjnet.com/2220-6132office/>)
- World Journal of Biological Chemistry (<http://www.wjnet.com/1949-8454/edboard.htm>)
- International Journal of Cancer Immunology and Immunotherapy
- Section Editor for Open Medicine Journal (<http://degruyteropen.com/people/sdeaglio/>)
- Journal of Immunology and Immunotherapy

Teaching Duties

- Course on Medical Genetics, for adult and pediatric nurses (since 2005), University of Torino
- Course on Human Genetics for Medical Students, University of Torino
- Course on Medical Genetics for Lab Technicians
- Course of Immunogenetics for trainees (specializzandi) in Medical Genetics
- Course on "New frontiers in Immunogenetics" for students of an "Immunogenetics Masters"
- Trained 11 PhD students (Tiziana Vaisitti, Semra Aydin, Ifigenia Saborit Villaroya, Valentina Audrito, Sara Serra, Cinzia Bologna, Federica Gaudino, Vincenzo Gianluca Messina, Benjamin Gyau, Monica Sorbini, Martina Migliorero) and 15 MS/MD students, including 3 students of the MD/PhD program of the University of Turin.

- Trained 2 MDs (Martina Callegari and Silvia Kalantari) and 2 PhDs (Valeria Bracciamà and Silvia Alizzi) specializing in medical genetics.

Honors

- 1996: PBI international Prize for the best abstract presented at the 1996 Immunology Cooperation Group (GCI) meeting in L'Aquila, Italy.
- 1998: Telethon Foundation Prize for scientific research, Roma, Italy.
- 1999: Optime Prize for best qualified students, Industrial Association of Torino. Torino, Italy.
- 2002: Cecilia Cioffrese prize for cancer research (Milano, Italy)
- 2004: Walter Knapp Young Investigator Award. Prize presented at the VIII HLDA Congress, December 10-14, 2004, Adelaide, Australia.
- 2006: Italian Cancer League Prize for translational researches in hematology (Asti, October 18, 2006)

Institutional Responsibilities

- 2006- Member of the PhD School in Biomedical Sciences and Oncology
- 2014- Member of the MD/PhD program of the University of Turin, Italy (Tutor of 2 students)
- 2018- Director of the Biobank of the Department of Medical Sciences (http://www.progettoeccellenzateseo.unito.it/it/biobank_personel)

Meeting organizer / session chair

- Member of the Scientific Committee of the first "CD38 ectoenzyme family" meeting, Turin, June 2006
- Abstract reviewer and session chair for 57th and 58th annual meetings of the American Society of Hematology (2015, 2016)
- Member of the Scientific Committee of the Keystone Symposium on purinergic signalling (Vancouver, 2016)
- Member of the Scientific Committee of the 17th International Workshop on CLL (New York, June 2017)
- Abstract Reviewer and Session Chair for the American Society of Hematology (57th, 58th and 61st meetings)

Selected lectures and seminars (2014-2020)

2014

- Speaker at the Lymphoma Working Group Meeting, Cornell University, March 2014 (Host: Giorgio Inghirami).
- Seminar at the Giannina Gaslini Hospital, Genoa, Italy, March 2014 (Host: Lorenzo Moretta).
- Seminar at the Humanitas Foundation, Milan, May 2014 (Host: Carmelo Carlo Stella)
- Speaker at the Purines 2014 meeting, Bonn, Germany, July 23-27 2014.
- Seminar at Mount Sinai School of Medicine, December 2014 (Host: Dr. Stuart Aaronsson).

2015

- Speaker at the 11th International CLL Workshop, Salzburg, Austria (May 2015)
- Seminar, Beth Israel Deaconess Medical Center, Boston, MA (June 2015, Host: S.C. Robson)
- Hematology Grand Rounds, Weill Cornell Medical Center, New York, NY (October 2015)
- Session Chair, 57th Annual Meeting of the American Society of Hematology, (December 2015).

2016:

- Coordinator of abstract reviewers and Session Chair, 58th American Society of Hematology Meeting, San Diego, CA, December 2016.
- Session Organizer and chair at the Keystone 2016 Symposium on purinergic signaling.

2017:

- Invited speaker at the UK CLL Forum, London, March 7, 2017.
- Seminar ECGEB, Trieste, January 31, 2017. (Host. Dr. D. Efremov)
- Seminar University Federico II, Naples, Feb 2, 2017.
- Seminar at the German Cancer Research Center (Heidelberg, June 1st 2017)
- Member of the scientific committee, abstract reviewer and session chair at the iwCLL meeting, New York, May 12-15, 2017.

- Speaker at the GIC (Gruppo Italiano di Citometria) annual meeting, Oc 3-4, 2017
- Speaker at the AIBT (Associazione Italiana Biologia Trapianti) annual meeting, Oct5 2017
- Speaker at the annual meeting of the Associazione Italiana Colture Cellulari, Milan, Nov 27-28, 2017
- Speaker at the 6° Workshop Nazionale di Ematologia Traslazionale of the Italian Society for Experimental Hematology (SIES), Parma, November 17-18, 2017.

2018

- Speaker at the International Symposium on CHRONIC LYMPHOCYTIC LEUKEMIA: ADVANCES IN PATHOGENESIS AND TREATMENT. Venice, March 2018
- Speaker at the Cancer Cluster Salzburg Conference, Salzburg April 2018
- Speaker at the ASH Lymphoma Biology Meeting, Washington, August 2-5, 2018
- Speaker at the ERIC International Meeting “New Frontiers in CLL Research”, Barcelona October 2018

2019

- Seminar, Lymphoma Biology Series, Cambridge University (Host. Dr. I Ringshausen)
- Speaker at the iwCLL meeting, Edinburg, UK, Sept 20-23 2019
- Speaker at the 5th ESH Conference on lymphoid malignancies, Estoril, Portugal, Oct 2-5, 2019
- Speaker at the Lymphoma and Myeloma Conference, New York, October 23-26, 2019

2020

- Speaker at the First Translational Research Conference on Chronic Lymphocytic Leukemia (virtual conference, november 2020)

Active funding

Title	Project code	Funding agency	Duration	Amount (euros)	Role
A ménage à trois involving the B cell receptor, NOTCH1 and NAMPT: therapeutic implications for CLL and RS patients	IG23095	AIRC	2020-2024	Approx 130.000 /year	PI
Understanding and targeting the extracellular NADome in inflammation		Miur – PRIN project	3 years	155,000	PI of operative unit
Integrating chemical and biological approaches to target NAD production and signaling in cancer	“INTEGRATA”, ITN project 813284	H2020	5 years, start date March 2019	216,499	PI of operative unit

Main past funding

Title	Project code	Funding agency	Duration	Amount	Role
Ruolo della molecola CD38 umana nel controllo della sopravvivenza, crescita e differenziamento delle cellule B-CLL: spettatore o colpevole?	PRIN2005 2005068150_003	Ministero dell’Università	2006-2008	58,000	PI of operative unit
CD38 and the fate of CLL cells: innocent bystander or culprit?		CLL Global Foundation	2006-2007	USD 200,000	PI
Il recettore 2 della transferrina: un nuovo	Ricerca finalizzata, bando 2008	Regione Piemonte	2009	18,000	PI

marcatore diagnostico e bersaglio terapeutico per i glioblastomi?					
Meccanismi molecolari e cellulari nella progressione della leucemia linfatica cronica: nuovi approcci terapeutici	Ricerca finalizzata Bando 2009	Regione Piemonte	2009	20,000	PI
Combined role of CD38 and ZAP70 in CLL: from pathogenesis to diagnosis, prognosis and therapy	IG4169	AIRC	2006-2008	150,000	PI of operative unit
Nucleotide-metabolizing enzymes in the maintenance and progression of CLL: potential therapeutic applications?	IG8590	AIRC	2009-2011	225,000	PI
Cooperation between adenosinergic and hypoxic signals in the organization of the leukemic niche	IG12754	AIRC	2012-2015	290,000	PI
L'espressione coordinata degli enzimi CD39 e CD73 da parte di cellule di leucemia linfatica cronica contribuisce a indurre immunosoppressione e a creare condizioni microambientali favorevoli la crescita	PRIN2009 2009LMEEEH_002	Ministero dell'Università	2011-2014	89,000	PI of operative unit
DECYPHERING THE MOLECULAR BASIS OF SPLENIC MARGINAL ZONE LYMPHOMA BY WHOLE EXOME SEQUENCING AND FUNCTIONAL GENOMICS	IG17314	Cariplo	2013-2015	290,000 (two units)	PI of operative unit
Fattori solubili, recettori di membrana e controllo genetico nelle interazioni tumore/ospite	Futuro in ricerca RBFRO8ATLH	Ministero dell'Università	2010-2014	482,000	PI
Identificazione e caratterizzazione funzionale di nuove lesioni genetiche nelle neoplasie linfoidi	Futuro in ricerca RBF12D1CB_002	Ministero dell'Università	2013-2016	300,000	PI of operative unit
Identification of novel prognostic factors and therapeutic	Progetto giovani ricercatori GR-2008-1138053	Ministero della Salute	2010-2013	533,000	PI (primo progetto classificato)

targets for Richter's syndrome					
NEW GENETIC LESIONS CHARACTERIZING HIGH RISK CHRONIC LYMPHOCYTIC LEUKEMIA: CLINICAL AND FUNCTIONAL IMPLICATIONS	Giovani Ricercatori GR-2010-2317594	Ministero della Salute	2013-2015	110,000	PI of operative unit
Progetti locali UniTo	Fondi ex-60%	Università di Torino	Dal 2006-	Circa 3,500/anno	PI
Mechanisms of action of adenosine deaminase in cancer cells		Halozyme	2016-2018	90,000	PI
Pleiotropic transcriptional control mechanisms of CD49d expression in trisomy 12 chronic lymphocytic leukemia: implications for novel therapeutic approaches	GR-2011-02346826	Ministero della Salute	2015-2018	129,000	PI of operative unit
Understanding tumor-host interactions and therapy resistance in chronic lymphocytic leukemia: moving up a NOTCH?	IG17314	AIRC	2016-2018	319,000 euros	PI

Career breaks

- Giacomo (Jan 27, 2006)
- Enrico (June 25, 2008)
- Pietro (Oct 2, 2012)

Publication metrics (as of April 1, 2021):

Author of 174 publications in PubMed

First/last/corresponding author publications: 70 (41%)

H-index: 53 (Scopus) Total citations: 9986

Publication list: <https://pubmed.ncbi.nlm.nih.gov/?term=deaglio&sort=date>

Turin, June 8, 2021

