

Curriculum vitae

Lucia Gemma Delogu

Personal details:

Name: Lucia Gemma Delogu
Nationality: Italian
Date of Birth: 6/1/1982
Institution: Department of Chemical and Pharmaceutical Sciences, Trieste University
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Trieste, 34127, Italy
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Education

Jan 2005-Feb 2008 **PhD, Biochemistry, Biology and Biotechnology**
Department of Biomedical Sciences, University of Sassari, Italy Thesis:
“*Genetic of Multiple Sclerosis and Type 1 Diabetes: HLA class III*”.
Supervisor: Dr. Laura Morelli. Co-Supervisor Francesco Cucca

Nov 2004 **Laurea Magistralis (equivalent to BSc+MSc.) in Natural Sciences,**
Università degli Studi di Sassari, Italy. Final score: 110/110 *summa cum laude*. Thesis Supervisors: Prof. Paolo Francalacci, Prof. Mario Pirastu (CNR)

Sep 2003-Nov 2004 **Visting Student** Istituto di Genetica delle Popolazioni, Porto Conte Ricerche, Tramariglio, Alghero, Italy Supervisor Prof. Mario Pirastu

Jul 2000 **Maturita' classica (equivalent to A Level)**
Liceo Classico “Canopoleno”, Sassari, Italy.

Work experience

Nov 2017-present **Project Researcher (chair Prof. Maurizio Prato)**
University of Trieste, Trieste, Italy

Nov 2012 -Oct 2017 **Assistant Professor of Biochemistry (RTD-A)**
Department of Chemistry and Pharmacy, University of Sassari, Italy

Apr 2017-Sep 2017 **Senior Dresden Visiting Professor; Excellence in Science Program)**
Uniklinikum Bone Lab, Technische Universität Dresden, Dresden, Germany
Invited by Prof. Lorenz Hofbauer and Dr. Martina Rauner

- May 2016-Oct 2017** **Visiting professor “Elenore Trefftz”**
 Chair of Materials Science and Nanotechnology Technische Universität
 Dresden, Dresden, Germany
 Invited by Prof. Gianaurelio Cuniberti
- May 2013** **Visiting Researcher**
 Department of Trasfusion Medicine National Institute of Health, Bethesda,
 USA.
 Invited by Prof. Francesco Marincola
- Oct 2009- Oct 2011** **Post Doctoral Fellow**
 Department of Pharmacy, University of Sassari, Italy Supervisor: Francesco Sgarrella
- Jul 2007-Apr 2009** **Postdoctoral Fellow**
 Institute for Genetic Medicine, University of Southern California, Los
 Angeles, USA
- Nov 2007** **Visiting Ph.D. Student**
 Sanford-Burnham Institute, La Jolla, San Diego, USA

Grants

**I obtained for the University of Sassari grants for more than 1 million of euros since 2010, a total budget of more than 2 millions euros;
 Currently I’m the Scientific Coordinator of two European Projects involving ten different Institutions present in Europe and worldwide including China, Qatar and USA.**

- 2018** **Project** “IMM-GNRs: Human Immune profiling of Graphene Nanoribbons” by the European Commission Marie Skłodowska-Curie Individual Fellow. Call success rate about 10%
Role: Beneficiary **Budget:** 128595,60 euros (Starting month June)
- 2017** **Project** “G-NANOULTRA: Graphene as a new nanocontrast agent for cancer ultrasonography diagnosis and therapy” by the Government of Sardinia Region, Italy. This project was selected as the first in the Biological Section in Sardinia.
Role: Coordinator **Budget:** 60.000,00 euros
- 2016** **Project** “*Multifunctional nanotools for advanced cancer diagnostics*” by the Italian PRIN program from the Ministry of Education, University and Research (MIUR).
Role: Partner Unit Coordinator; **Total Budget:** 372.319,00 euros
- 2016** **Project** “*Carbo-IMmap – Immune activity Mapping of Carbon Nanomaterials*” by the European Commission Marie Skłodowska-Curie Actions Research and Innovation Staff Exchange in the framework of H2020 program.
 Call success rate: about 20%
Role: Coordinator **Total Budget:** 796.500,00 euros
- 2015** **Project** “G-IMMUNOMICS – “Characterization of Graphene immune-impacts through omics approaches and genotoxic analysis” by the EU Flag-ERA JTC program in the framework of H2020 Graphene Flagship. The project was among the 13 financed in all Europe and among the two in coordination selected in Italy **Role:** Coordinator **Total Budget:** 977.542,00 euro

- 2015** **Project** “Graphene Enchelone-Graphene based electrochemical and sers liquid biopsy detection; Starting grant from the Government of Sardinia Region for EU calls (Best international projects of Sardinia not funded).
Role: PI of the a Research Unit **Budget:** 10.000,00 euros
- 2015** **Project** “Nanotechnologies and graphene: new advances to fight leukemia” by the Italian Leukemia Association (AIL).
Role: PI **Budget:** 13.000,00 euros
- 2015** **Project** “Graphene and Imaging Streaming: the fight against myelomonocytic leukemia” by The Foundation of Sardinia Bank.
Role: PI **Budget:**85.400,00 euros
- 2014** **Project** “TheranosticNano: nanomaterials as imaging agents and therapeutic systems” by The Foundation of Sardinia Bank.
Role: PI **Budget:**10.000,00 euros
- 2013** **Project** “Nanotechnology e immunotherapy: carbon nanotubes interaction with natural killer cells” by The Foundation of Sardinia Bank.
Role: PI **Budget:**15.000 euros
- 2012** **Project** “Nanotechnology in biomedicine: functionalized carbon nanotubes as potential immunomodulator systems” by Government of Sardinia Region, Italy.
Role: PI **Budget:** 126.765,00 euros
- 2011** **Project** “New perspectives in nanotechnology: carbon nanotubes as potential immunotherapeutic agents” by The Foundation of Sardinia Bank.
Role: PI **Budget:** 18.000,00 euros
- 2011** **Project** “TheranosticNANO Ultrasound contrast agents and immunomodulator systems” starting grant from the Government of Sardinia Region “Best projects not funded in National calls as coordinators”.
Role: Coordinator **Budget:** 10.000,00 euros
- 2010** **Project** “Carbon nanotubes in pharmacology: impact on the immune system and gene expression” by The Foundation of Sardinia Bank, Italy.
Role: PI **Budget:** 14.000,00 euros

Awards

- 2018** Awarded of a Marie Curie Individual Fellow by the European Commission (Success rate about 10%)
- 2017** Award “Feminas, Science and Culture Section”, among the five Sardinian women awarded by the Coldiretti Italian Association, Italy.
- 2013** Award “*Bedside to bench & Back Lecture Series Achievement Award*” National Institute of Health, Bethesda, USA .
- 2012** Award “*Medicine, Biology e Nanotechnology*” by the Association of GianFranco Del Prete doctor and scientist, budget 10.000 euros.
- 2011** “*200 Best Young Talents Of Italy*” (selected among over more than 10000 applicants) of from the Italian Ministry of Youth (Rome), Italy.

- 2007** Fellowship “*Master And Back*” by the Italian and Sardinia Government, budget 22.000 euros .
- 2006** Fellowship for training at the office of the Scientific office Italian Embassy, London by the Italian Ministry of Foreign Affairs, (I declined because of incompatibility with research activity)
- 2003** Fellowship “Best Students” at the University of Sassari, budget 1.000 euros.

Supervisor activities

All positions mentioned below were acquired on my own grants. My laboratory on bionanotechnology in Sassari was created from the ground on my own grants including all the basic instruments for a bio-lab and a BD Flow Cytometer (CANTO II).

- Current mentoring** 2 Ph.D. Students in Life Science
- 2010 to 2017** 11 M.Sc. Students, 11 Ph.D. Student/fellows, 4 Erasmus students from different nationalities

Teaching

I acquired in 7 years of activity an extensive experience in teaching at the University. More than 35% of my academic activity was dedicated to teaching due to the internal University policies.

- 2016** course of 16 hours “Scientists in lab coats” for school students as introduction to the world of Biochemistry
- 2010-2017** course in Applied Biochemistry (72 hours per years), Department of Chemistry and Pharmacy, University of Sassari. Monthly exams were required.
- 2011** course of 8 hours in Bioinformatics Department of Chemistry and Pharmacy, UNISS (enrollment: > 150 students).

General contribution

- **Organizer**

- 1) 10-14/9/2018 Graphene Week 2018; Role: Chairman of the the section “graphene and 2 D materials in wound healing”.
- 2) 24-27/06/2017 International Workshop Nano Biomed-Sardinia please see the full program and speakers list at www.nanobiomedSardinia.eu ; Role: main organizer and Chairman; It was an international event with over 200 participants, 11 Countries involved, several distinguished guests including 8 ERC winners.
- 3) 20/01/2017 Main Organizer at the Max Planck Institute of Molecular Biology in Dresden, Germany of the Seminar “Why fat does not accumulate in the muscle of a healthy vertebrate? A system biology

approach” by Prof. G. Cesareni, University of Rome Tor Vergata, Italy. Number of participants:>100

- 4) 2016 One-day Event “Science and Culture” in UNISS, Italy; plenary speakers included Prof. Francesco Marincola Chief of the Sidra Center, Doha, Qatar. Role: main organizer. Number of participants: >200
- 5) 2016 International Conferences on Modern Materials and Technologies, Perugia, Italy. Role: scientific committee. Number of participants :> 300
- 6) 2011-2017 Lecture series at the University of Sassari in the fields of nanobiotechnology and immunology with recognized scientists (12 in total) from different National and International Institutions (i.e. France, USA, UK, Netherlands, Germany, Qatar). Role: main organizer. Number of participants :> 100.
- 7) 2014 “Science Day 2014 Symposium on Nanobiotechnology” University of Sassari, Italy. Role: Scientific committee. Number of participants: > 50.
- 8) 8-9/06/2012 International Conference “Cadmium Symposium”. Role: Scientific Committee. Number of participants: >500 from more 18 countries.
- 9) 22/02/2011 Workshop "Chemical and biotech patents by Sardinia Research PATLIB". Role: Scientific committee. Number of participants: >200.

▪ **Reviewer and referee activity**

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|----------------------|--|
| 2015 | Invited expert on the review panel of FP7 from Project Officer FET Flagships – Excellence in Science European Commission Graphene Flagship |
| 2012 | Invited expert in different review panels for the National Science Centre, Poland. |
| 2012- to date | More than 80 papers refereed, i.e., for: “ACSNano”, “Nanotoxicology”, “Biomaterials”, “Carbon”, “Nanoscale”. |

▪ **Membership of scientific societies and editorial boards**

- 1) Member upon invitation of the SITC “Society for immunotherapy of Cancer”
- 2) I’m part of the Editorial Advisory Board for: Journal of Translational Medicine, Autoimmunity, International Journal of Pharmaceutical Sciences Research, Frontiers in Molecular Biosciences (2013-to date)
- 3) Member of the SIB (Italian Society of Biochemistry)
- 4) Member of the Ph.D. School in Life Science at the University of Sassari, Italy (2013-2017).

▪ **Italian Qualification as associate professor (ASN)**

Acquired ASN:

1. General Biochemistry (2013)

2. Clinical Biochemistry (2017)
3. Applied Biology (2017)

Seminars and conference presentations

INVITED TALKS

1. 25/8/2017 Keynote Speaker at the “Chem2Dmat Conference” in Strasbourg, France; Title: Carbon Nanomaterials from immune cell interaction to bone regeneration.
2. 05-09/6/2017 Keynote Speaker at the “Trends in Nanotechnology International Conference (TNT2017)”, Dresden, Germany; title: Graphene and immune cells.
3. 01-03/4/2017 “2nd Nanotechnology Conference and Expo Dubai”, Dubai, United Emirates; title: Graphene for bone regeneration.
4. 05-07/12/2016 “3rd Edition Nanotech Dubai 2016 Conference and Exhibition”, Dubai, United Arab Emirates; Title: Impact of different shaped and functionalized graphene on immune cell subpopulations
5. 22-24/11/2016 “Nanobio&med 2016”, Barcellona, Spain; Title: Immune characterization of graphene oxide and amino functionalized graphene using new high-throughput analysis
6. 13-17/06/2016 Plenary Speaker “Graphene week 2016”, Warsaw, Poland; title: Immune cell impact of different shaped and functionalized graphene
7. 19-22/04/2016 “Graphene 2016 International Conference & Exhibition”, Genoa, Italy; title: Graphene oxide lateral dimensions can mediate different molecular responses of human immune cells
8. 28-30/10/2015 “4th International Immunology Summit”, Houston, USA; title: Molecular impact induced by differently shaped graphene oxide on immune cells
9. 23-27/11/2014 “7th International Symposium On Macro- and Supramolecular Architectures and Materials” Johannesburg, South Africa, title: Carbon nanomaterials for theranostic applications
10. 29/9-01/10/2014 “3rd International Conference and Exhibition on Clinical & Cellular Immunology”, Baltimore, USA, Title: Functionalized carbon nanotubes as immunomodulator systems and ultrasound contrast agents
11. 17-19/4/2013 “International conference Nanomed workshop, from nanomedicine to brain imaging” Sardegna Ricerche Pula, Cagliari, Italy, title: Functionalized carbon nanotubes in nanomedicine
12. 16-17/1/2013 Keynote speaker at the conference “Immunotherapy: what’s new in the future oncology?” Istituto Scientifico Romagnolo per la cura dei Tumori,

Meldola, Forlì Italy, title: Functionalized carbon nanotubes for immunotherapy

CONTRIBUTED TALKS

1. 26-29/9/2012 “56th National meeting of the Italian Society of Biochemistry and Molecular Biology”, Chieti, Italy; title “Functionalized carbon nanotubes and their application in biomedicine”.
2. 28-30/9/2009 “Nanotech Europe 2009 International Congress”, Berlin, Germany, title: Increased IL-2 production by PEGylated carbon nanotubes Treated T-cell
3. 27-30/10/2008 “5th International Congress of Nano-Bio & Clean Tech 2008”, San Francisco, USA; Title: ASO-conjugated PEGylated carbon nanotubes for PTPN22 silencing

POSTERS

- 1) 16-10/12/2015 4th Nanotoday Conference, Dubai (UAE); poster communication as the corresponding author: “*Molecular impact of small and large graphene oxide on immune cells*”.
- 2) 25-26/11/2015 International Conference NanotechItaly 2015, Bologna, Italy; poster communication as the corresponding author: “*Graphene oxide with different shape dimensions impact on immune cells*”.
- 3) 25-27/6/2015 Federation of Clinical Immunology Society FOCIS meeting San Diego, USA; poster communication as the corresponding author: “*Molecular impact of graphene oxide with different shape dimensions on immune cells*”.
- 4) 15-16/4/2015, BRECI International Conference, Doha, Qatar; poster communication as the corresponding author: “*Carbon nanomaterials as contrast agents for breast cancer diagnosis and therapy*”.
- 5) 23-27/11/2014, 7th International Symposium On Macro- and Supramolecular Architectures and Materials, Johannesburg, South Africa; poster communication as the corresponding author: “*Carbon nanomaterial immunomodulators are able to fight immune function dysregulation in spaceflight conditions*”.
- 6) 26-28/11/2014, Nanotech Italy International Conference, Venice, Italy; poster communication as the corresponding author: “*Carbon nanomaterial immunomodulators are able to fight immune function dysregulation in spaceflight conditions*”.
- 7) 5/12-16/2013, “Nanotech Conference 2013” Washington, USA; poster communication as the corresponding author: “*Cystine-functionalized superparamagnetic nanoparticles interaction human immune cells ex vivo*”.
- 8) 21-23/11/2012, “NanotechItaly 2012” Venice, Italy; poster communication as the corresponding author: “*Carbon Nanotubes for Biomedical applications*”.
- 9) 4-6/10/2012 “ESMRMB 2012”, Lisbon, Spain; poster communication: “*Cystine-functionalized superparamagnetic nanoparticles on immune cells*”.
- 10) 15-22/4/2012 7th ENII Spring school in advanced immunology, Porto Conte Alghero, Italy; poster communication as corresponding author “*Carbon nanotubes for biomedical applications.*”
- 11) 3/2012 International conference organized by Nature Publishing Group: Nanotechnology in Biomedicine 2012 Miami Winter Symposium, Miami, USA; poster communication as corresponding author “*Immunostimulatory Effect of Functionalized carbon nanotubes*”.
- 12) 30/5-1/6/2010 International Conference "EuroNanoForum & Nanotech Europe 2011", Budapest, Hungary; poster communication as corresponding author: “*Functionalized carbon nanotubes on human immune cells*”.

INVITED SEMINARS

1. 30/1/2018 Istituto di Ricerca Pediatrica Citta' della Speranza, Padova, Italy; Title: Nanomaterials in Medicine: interactions with immune cells and bio-applications. Host: Antonella Viola
2. 3/11/2017 University of Cambridge, Cambridge, UK; Title: Carbon Nanomaterials with the immune cells: a box of opportunities. Host: Andrea Ferrari
3. 20/02/2017 IIT, Genoa, Italy; Title: New opportunities from nanomaterial interaction with immune cells. Host: Fabio Benfenati
4. 21/10/2015 University of Rome Tor Vergata Italy; Title: Carbon Nanomaterials in Nanomedicine: applications and interactions with immune cells. Host: Gianni Cesareni
5. 29/1/2015 Houston Methodist Research Institute USA; title: Interaction of Carbon nanomaterials with immune cells: perspectives in Medicine. Host: Ennio Tasciotti
6. 2/7/2015 Cedar Sinai Medical Center, Department of Medicine Los Angeles, USA; title: Nanotechnology in everyday clinical practice: How far are we with carbon nanomaterials? Host: Lauda Tomasi
7. 29/6/2015 Sandford Burnham Medical Discovery Center, La Jolla, San Diego, USA; Title: Carbon Nanomaterials in Medicine: Immune cell Interactions? Host: Erkki Ruoslahti
8. 27-29/5/2015 University of Dresden, Dresden, Germany; title: Issues and promises of carbon nanomaterials for biomedical applications. Host: Gianauelio Cuniberti
9. 9/04/2015 SIDRA Medical and Research Center, Doha, Qatar; title: New advances in biomedicine from nanotechnology: issues and promise of carbon nanomaterials. Host: Davide Bedognetti
10. 19/5/2013 National Institute of Health, Bethesda USA; title: Carbon Nanotubes for Biomedical Applications. Host: Davide Bedognetti
11. 11/5/2012 University of Trieste, Italy; title: Carbon Nanotubes: applications in medicine. Host: Renato Gennaro
12. 1/7/2011 University of Genoa, Italy; title: Nanotechnology and functionalized carbon nanotubes in Nanomedicine. Host: Andrea De Maria
13. 4/12/2010 CNRS, Strasbourg, France; title: PEGylated carbon nanotubes into T cells. Host: Alberto Bianco

Publications

**Since April 2009 I published 30 articles in peer-reviewed journals
16 as senior/corresponding author/first author
H-index 18, i10-index 25**

In Vivo Restoration of Myocardial Conduction with Carbon Nanotube Fibers

M. D. McCauley, F. Vitale, C. C. Young, J. S. Yan, M. Orecchioni, **L.G. Delogu**, B. Greet, M. Razavi, M. Pasquali

Under Review on Nature Medicine

How Can Nanotechnology help to fight Breast Cancer

Avitabile E, Bedognetti D, Bianco A, Ciofani G, **Delogu LG**

under review on Nanoscale

1. *Single cell mass cytometry and transcriptome profiling reveal the impact of graphene on human primary immune cells*

Orecchioni M, Bedognetti D, Newman L, Fuoco C, Spada F, Hendrickx W, Marincola FM, Sgarrella F, Rodrigues FA, Ménard-Moyon C, Cesareni G, Kostarelos K, Bianco A, **Delogu LG**.

Nature Communications 8, 2017

doi:10.1038/s41467-017-01015-3

2. *Identification of genetic determinants of breast cancer immune phenotypes by integrative genome-scale analysis.*

Hendrickx W, Simeone I, Anjum S, Mokrab Y, Bertucci F, Finetti P, Curigliano G, Seliger B, Cerulo L, Tomei S, **Delogu LG**, Maccalli C, Wang E, Miller LD, Marincola FM, Ceccarelli M, Bedognetti D.

Oncoimmunology. 2017 Feb 6;6(2):e1253654.

doi: 10.1080/2162402X.2016.1253654.

3. *Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients*

Russier R, Léon V, Orecchioni M, Hirata E, Virdis P, Fozza C, Sgarrella F, Cuniberti G, Prato M, Vazquez E, Bianco A, **Delogu LG**.

Angew. Chem. Int. Ed. 2017, 56, 1 – 7

Doi: 10.1002/anie.201700078

4. *A genome-wide association study by ImmunoChip reveals potential modifiers in myelodysplastic syndromes.*

Danjou F, Fozza C, Zoledziewska M, Mulas A, Corda G, Contini S, Dore F, Galleu A, Di Tucci AA, Caocci G, Gaviano E, Latte G, Gabbas A, Casula P, **Delogu LG**, La Nasa G, Angelucci E, Cucca F, Longinotti M.

Exp Hematol. 2016 Nov;44(11):1034-1038.

doi: 10.1016/j.exphem.2016.07.005.

5. *Graphene and the immune system: Challenges and potentiality.*

Orecchioni M, Ménard-Moyon C, **Delogu LG**, Bianco A.

Adv Drug Deliv Rev. 2016 Oct 1;105(Pt B):163-175.

doi: 10.1016/j.addr.2016.05.014. Review.

6. *Immune cell impact of three differently coated lipid nanocapsules: pluronic, chitosan and*

polyethylene glycol.

Farace C, Sánchez-Moreno P, Orecchioni M, Manetti R, Sgarrella F, Asara Y, Peula-García JM, Marchal JA, Madeddu R, **Delogu LG**.

Sci Rep. 2016 Jan 5;6:18423. doi: 10.1038/srep18423.

7. *Immune compatible cystine-functionalized superparamagnetic iron oxide nanoparticles as vascular contrast agents in ultrasonography*

Dolci S, Domenici V, Vidili G, Orecchioni M, Bandiera P, Madeddu R, Farace , Peana M, Tin MR, Manetti R, Sgarrella F, **Delogu LG**

RSC ADV 2016 Jan; 6: 2712-2723.

DOI: 10.1039/c5ra19652c

8. *Molecular and Genomic Impact of Large and Small Lateral Dimension Graphene Oxide Sheets on Human Immune Cells from Healthy Donors.*

Orecchioni M, Jasim DA, Pescatori M, Manetti R, Fozza C, Sgarrella F, Bedognetti D, Bianco A, Kostarelos K, **Delogu LG**.

Adv Healthc Mater. 2016 Jan 21;5(2):276-87.

doi: 10.1002/adhm.201500606. Epub 2015 Dec 20.

9. *Graphene as cancer theranostic tool: progress and future challenges.*

Orecchioni M, Cabizza R, Bianco A, **Delogu LG**.

Theranostics. 2015 Mar 28;5(7):710-23. doi: 10.7150/thno.11387. Review.

10. *Immunomodulatory properties of carbon nanotubes are able to compensate immune function dysregulation caused by microgravity conditions.*

Crescio C, Orecchioni M, Ménard-Moyon C, Sgarrella F, Pippia P, Manetti R, Bianco A, **Delogu LG**.

Nanoscale. 2014 Aug 21;6(16):9599-603.

doi: 10.1039/c4nr02711f.

11. *Impact of carbon nanotubes and graphene on immune cells.*

Orecchioni M, Bedognetti D, Sgarrella F, Marincola FM, Bianco A, **Delogu LG**.

J Transl Med. 2014 May 21;12:138.

doi: 10.1186/1479-5876-12-138

Review.

12. *Natalizumab inhibits the expression of human endogenous retroviruses of the W family in multiple sclerosis patients: a longitudinal cohort study.*

Arru G, Leoni S, Pugliatti M, Mei A, Serra C, **Delogu LG**, Manetti R, Dolei A, Sotgiu S, Mameli G.

Mult Scler. 2014 Feb;20(2):174-82.

doi: 10.1177/1352458513494957

13. *The perception of nanotechnology and nanomedicine: a worldwide social media study.*

Sechi G, Bedognetti D, Sgarrella F, Van Eperen L, Marincola FM, Bianco A, **Delogu LG**.

Nanomedicine (Lond). 2014 Jul;9(10):1475-86

doi: 10.2217/nmm.14.78

14. *Non-BRAF-targeted therapy, immunotherapy, and combination therapy for melanoma.*

Tomei S, Wang E, **Delogu LG**, Marincola FM, Bedognetti D.

Expert Opin Biol Ther. 2014 May;14(5):663-86.

doi: 10.1517/14712598.2014.890586

Epub 2014 Mar 13. Review.

15. *Activation of MSRV-type endogenous retroviruses during infectious mononucleosis and Epstein-Barr virus latency: the missing link with multiple sclerosis?*
Mameli G, Madeddu G, Mei A, Uleri E, Poddighe L, **Delogu LG**, Maida I, Babudieri S, Serra C, Manetti R, Mura MS, Dolei A.
PLoS One. 2013 Nov 13;8(11):e78474.
doi: 10.1371/journal.pone.0078474
16. *CXCR3/CCR5 pathways in metastatic melanoma patients treated with adoptive therapy and interleukin-2.*
Bedognetti D, Spivey TL, Zhao Y, Uccellini L, Tomei S, Dudley ME, Ascierto ML, De Giorgi V, Liu Q, **Delogu LG**, Sommariva M, Sertoli MR, Simon R, Wang E, Rosenberg SA, Marincola FM.
Br J Cancer. 2013 Oct 29;109(9):2412-23.
doi: 10.1038/bjc.2013.557.
17. *Functionalized carbon nanotubes as immunomodulator systems.*
Pescatori M, Bedognetti D, Venturelli E, Ménard-Moyon C, Bernardini C, Muresu E, Piana A, Maida G, Manetti R, Sgarrella F, Bianco A, **Delogu LG**.
Biomaterials. 2013 Jun;34(18):4395-403.
doi: 10.1016/j.biomaterials.2013.02.052
18. *Interaction of divalent cations with peptide fragments from Parkinson's disease genes.*
Remelli M, Peana M, Medici S, **Delogu LG**, Zoroddu MA.
Dalton Trans. 2013 May 7;42(17):5964-74.
doi: 10.1039/c2dt32222f
19. *Cytoskeletal proteins in the cerebrospinal fluid as biomarker of multiple sclerosis.*
Madeddu R, Farace C, Tolu P, Solinas G, Asara Y, Sotgiu MA, **Delogu LG**, Prados JC, Sotgiu S, Montella A.
Neurol Sci. 2013 Feb;34(2):181-6.
doi: 10.1007/s10072-012-0974-4
20. *Functionalized multiwalled carbon nanotubes as ultrasound contrast agents.*
Delogu LG, Vidili G, Venturelli E, Ménard-Moyon C, Zoroddu MA, Pilo G, Nicolussi P, Ligios C, Bedognetti D, Sgarrella F, Manetti R, Bianco A.
Proc Natl Acad Sci U S A. 2012 Oct 9;109(41):16612-7.
doi: 10.1073/pnas.1208312109
21. *Mn(II) and Zn(II) interactions with peptide fragments from Parkinson's disease genes.*
Medici S, Peana M, **Delogu LG**, Zoroddu MA.
Dalton Trans. 2012 Apr 21;41(15):4378-88.
doi: 10.1039/c2dt12168a
22. *Ex vivo impact of functionalized carbon nanotubes on human immune cells.*
Delogu LG, Venturelli E, Manetti R, Pinna GA, Carru C, Madeddu R, Murgia L, Sgarrella F, Dumortier H, Bianco A.
Nanomedicine (Lond). 2012 Feb;7(2):231-43.
doi: 10.2217/nnm.11.101
23. *Cadmium influences the 5-Fluorouracil cytotoxic effects on breast cancer cells.*

- Asara Y, Marchal JA, Bandiera P, Mazzarello V, **Delogu LG**, Sotgiu MA, Montella A, Madeddu R. Eur J Histochem. 2012 Jan 20;56(1):e1.
doi: 10.4081/ejh.2012.e1
24. *Gene expression profiling in acute allograft rejection: challenging the immunologic constant of rejection hypothesis.*
Spivey TL, Uccellini L, Ascierio ML, Zoppoli G, De Giorgi V, **Delogu LG**, Engle AM, Thomas JM, Wang E, Marincola FM, Bedognetti D.
J Transl Med. 2011 Oct 12;9:174.
doi: 10.1186/1479-5876-9-174
25. *Infectious diseases and autoimmunity.*
Delogu LG, Deidda S, Delitala G, Manetti R.
J Infect Dev Ctries. 2011 Oct 13;5(10):679-87. Review.
26. *SITC/iSBTc Cancer Immunotherapy Biomarkers Resource Document: online resources and useful tools - a compass in the land of biomarker discovery.*
Bedognetti D, Balwit JM, Wang E, Disis ML, Britten CM, **Delogu LG**, Tomei S, Fox BA, Gajewski TF, Marincola FM, Butterfield LH.
J Transl Med. 2011 Sep 19;9:155.
doi: 10.1186/1479-5876-9-155
27. *Diet and nutrients are contributing factors that influence blood cadmium levels.*
Madeddu R, Solinas G, Forte G, Bocca B, Asara Y, Tolu P, **Delogu LG**, Muresu E, Montella A, Castiglia P.
Nutr Res. 2011 Sep;31(9):691-7.
doi: 10.1016/j.nutres.2011.09.003
28. *Autoimmune-associated PTPN22 R620W variation reduces phosphorylation of lymphoid phosphatase on an inhibitory tyrosine residue.*
Fiorillo E, Orrú V, Stanford SM, Liu Y, Salek M, Rapini N, Schenone AD, Saccucci P, **Delogu LG**, Angelini F, Manca Bitti ML, Schmedt C, Chan AC, Acuto O, Bottini N.
J Biol Chem. 2010 Aug 20;285(34):26506-18.
doi: 10.1074/jbc.M110.111104
29. *Carbon nanotube-based nanocarriers: the importance of keeping it clean.*
Delogu LG, Stanford SM, Santelli E, Magrini A, Bergamaschi A, Motamedchaboki K, Rosato N, Mustelin T, Bottini N, Bottini M.
J Nanosci Nanotechnol. 2010 Aug;10(8):5293-301.
30. *Conjugation of antisense oligonucleotides to PEGylated carbon nanotubes enables efficient knockdown of PTPN22 in T lymphocytes.*
Delogu LG, Magrini A, Bergamaschi A, Rosato N, Dawson MI, Bottini N, Bottini M.
Bioconjug Chem. 2009 Mar 18;20(3):427-31.
doi: 10.1021/bc800540j