

PERSONAL INFORMATION

Name and Surname: Lucia Gemma Delogu
Date & Place of Birth: January, 6th, 1982 – Sassari
Marital Status: Married with one child
Sex: Female
Citizenship: Italian
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ACADEMIC CAREER

BRIEF TRACK RECORDS

Dr. Delogu is an assistant professor (RTD A) and head of the Laboratory of Biochemistry and Bionanotechnology at the Department of Chemistry and Pharmacy of the University of Sassari.

BRIEF TRACK RECORD:

Assistant Professor of Biochemistry at the University of Sassari (UNISS, Italy)

Visiting Professor at TU Dresden (Germany)

2 Years as Post-doctoral fellow at the University of Southern California (USA), 2007- 2009

Ph.D. in Biology and Biochemistry in 2008

Additional working experience abroad:

Visiting Professor at TU Dresden, (Germany)summer 2017

Visiting Professor at TU Dresden, (Germany) 2016 (Eleonore Trefftz Program)

Visiting researcher at the National Institute of Health (NIH), Bethesda (USA) 2013

Visiting researcher at the Sanford-Burnham Medical Research Institute, San Diego (USA) 2008

Bedside to bench & Back Lecture Series Achievement Award from NIH, Bethesda (USA) 2013

“Best 200 Italian young talents Award” from the Italian Ministry of Youth 2010

30 peer-reviewed publications (May 2009-May 2017), 18 as first or senior/corresponding author (including Nature Comm, PNAS, Nanoscale, Biomaterials, Nanomedicine) (maternity leave 1/1-30/6/2014)

More than €1.200.000 of funds acquired in the last five years for the University of Sassari

Coordinator of two EU funded projects under HORIZON 2020

Unit coordinator of a MIUR funded project (PRIN 2015)

Pillars of research:

nanomaterials impact on the immune system

nanomaterials as theranostic tools

nanomaterials for space biology applications

ACADEMIC RECORDS

1 – EDUCATION

- 2008 Ph.D. University of Sassari in Biology and Biochemistry.

- 2004 Master Degree University of Sassari, Natural Science “summa cum laude”.

2 – RESEARCH EXPEDITIONS

Current positions:

- Since 2012: Assistant Professor at the Department of Chemistry and Pharmacy, University of Sassari, Italy.
- Since May 2016: Visiting Professor at TU Dresden, Germany.

Previous positions:

- 5/2013: Visiting researcher at the National Institute of Health Bethesda, USA.
- 2010-2012: Postdoctoral fellow at the Department of Chemistry and Pharmacy, UNISS, Italy.
- 2007- 2009: Postdoctoral fellow at the University of Southern California, Los Angeles, USA.
- 11/2007: Visiting postdoctoral fellow, Sanford-Burnham Institute, La Jolla, San Diego, USA.
- 10/19/2003-11/10/2004: visiting M.Sc. student, National Research Council Porto Conte, Italy.

3 – RECEIVED FUNDING

- 1) 2016: Project “G-NANOULTRA: Graphene as a new nanocontrast agent for cancer ultrasonography diagnosis and therapy” by the Government of Sardinia Region. Role: Coordinator
- 2) 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
- 3) 2016: Project “*Carbo-IMmap – Immune activity Mapping of Carbon Nanomaterials*” by the Marie Skłodowska-Curie Actions Research and Innovation Staff Exchange (RISE) in the framework of H2020 program. Role: Coordinator
- 4) 2015: Project “*G-IMMUNOMICS – “Characterization of Graphene immune-impacts through omics approaches and genotoxic analysis”*” by the Flag-ERA JTC program in the framework of H2020 Graphene Flagship. Role: Coordinator
- 5) 2015: “*Best international projects not funded*”, Starting grant from the Government of Sardinia Region for in EU/Italian calls. Role: PI
- 6) 2015: Project “*Nanotechnologies and graphene: new advances to fight leukemia*” by the Italian Leukemia Association (AIL). Role: PI
- 7) 2015: Project “*Graphene and Imaging Streaming: the fight against myelomonocytic leukemia*” by The Foundation of Sardinia Bank. Role: PI
- 8) 2014: Project “*TheranosticNano: nanomaterials as imaging agents and therapeutic systems*” by The Foundation of Sardinia Bank. Role: PI
- 9) 2013: Project “*Nanotechnology e immunotherapy: carbon nanotubes interaction with natural killer cells*” by The Foundation of Sardinia Bank. Role: PI
- 10) 2012: Project “*Nanotechnology in biomedicine: functionalized carbon nanotubes as potential immunomodulator systems*” by Government of Sardinia Region, Italy. Role: PI
- 11) 2012: Award “*Medicine, Biology e Nanotechnology*” by the Association of Gianfranco Del Prete Doctor and Scientist.
- 12) 2011: Project “*New perspectives in nanotechnology: carbon nanotubes as potential immunotherapeutic agents*” by The Foundation of Sardinia Bank. Role: PI
- 13) 2011: “*Best projects Future in research FIRB, Italy,*” starting grant from the Government of Sardinia Region to PIs under 32 years of age. Role: PI
- 14) 2010: Project “*Carbon nanotubes in pharmacology: impact on the immune system and gene expression*” by The Foundation of Sardinia Bank, Italy. Role: PI
- 15) 2007: Research Fellowship “*Master And Back*” from the Italian and Sardinia Government, Italy. Role: PI

Total of funding since 2010: 2.412. 926 euros.

4 – AWARDS

- 1) 2017: Awarded “Dresden Visiting professorship” TU Dresden, Germany.
- 2) 2015: Awarded “Eleonore Trefftz visiting professorship” TU Dresden, Germany.
- 3) 2013: Awarded “Bedside to bench & Back Lecture Series Achievement Award” National Institute of Health, Bethesda, USA (May 22).
- 4) 2012: Awarded “Medicine, Biology e Nanotechnology” by the Association of GianFranco Del Prete doctor and scientist.
- 5) 2011: “200 BEST YOUNG TALENTS OF ITALY” (selected from over more than 10000 applicants) of from the Italian Ministry of Youth (Rome), Italy.
- 6) 2007: Awarded of the fellowship “Master And Back” from the Italian and Sardinia Government.
- 7) 2006: She was selected, according to the commission of the Mas-Crui Ministry of Foreign Affairs, for training at the office of the Scientific office Italian Embassy, London (declined because incompatible with research activity).

Also, in a 2015 University of Sassari Ranking of Researchers with nonpermanent positions (conducted on more than assistant professor non-permanent positions), she was in the top ten of researchers in her University and among the five that obtained the National qualification as Associate Professor.

5 –SUPERVISOR ACTIVITIES

- 2010-to date: 11 M. Sc. Students, 5 Ph.D. Student/fellows, 4 Erasmus students from different nationalities
- Current mentoring activity: 3 Master students, 2 Ph.D. Students in Life Science, one fellow, one postdoc, 2 Erasmus students

6 – TEACHING ACTIVITIES

Dr. Delogu has extensive experience in teaching at the University, acquired in 6 years of activity. More than 35% of her academic activity was dedicated to teaching due to the internal University policies.

- In 2016 she was in charge of a short course of 16 hours “Scientists in lab coats” for school students as introduction to the world of Biochemistry
- Since 2010 she in charge of the course in Applied Biochemistry (82 hours per years), Department of Chemistry and Pharmacy, UNISS. Monthly exams were required.
- In 2011 she gave a short course of 8 hours in Bioinformatics Department of Chemistry and Pharmacy, UNISS (enrollment: > 150 students).

7 – LECTURES, SEMINARS AND PEER-REVIEW CONFERENCES

Selected invited seminars and invited oral contributions in International conferences:

1. Featured Speaker at the University of Cambridge UK in November 2017 for prestigious Graphene Lecture (invitation by prof. Ferrari).
2. 25/8/2017 Keynote Speaker at the “Chem2Dmat Conference” in Strasbourg, France.

3. 05-09/6/2017 Keynote Speaker at the "Trends in Nanotechnology International Conference (TNT2017)", Dresden, Germany; title: Graphene and immune cells.
4. 01-03/4/2017 Invited speaker at the "2nd Nanotechnology Conference and Expo Dubai", Dubai, United Emirates; title: Graphene for bone regeneration.
5. 05-07/12/2016 invited speaker at "3rd Edition Nanotech Dubai 2016 Conference and Exhibition", Dubai, United Arab Emirates; Title: Impact of different shaped and functionalized graphene on immune cell subpopulations
6. 22-24/11/2016 Invited speaker at "Nanobio&med 2016", Barcellona, Spain; Title: Immune characterization of graphene oxide and amino functionalized graphene using new high-throughput analysis
7. 13-17/06/2016 Plenary Speaker Graphene week 2016, Warsaw, Poland; Immune cell impact of different shaped and functionalized graphene
8. 19-22/04/2016 Invited speaker at the Graphene 2016 International Conference & Exhibition, Genoa, Italy; title: Graphene oxide lateral dimensions can mediate different molecular responses of human immune cells
9. 21/10/2015 Invited by Prof. Gianni Cesareni at the University of Rome Tor Vergata Italy; Title: Carbon Nanomaterials in Nanomedicine: applications and interactions with immune cells
10. 29/1/2015 Invited by Prof. Ennio Tasciotti at the Houston Methodist Research Institute USA; title: Interaction of Carbon nanomaterials with immune cells: perspectives in Medicine
11. 28-30/10/2015 Invited speaker at the 4th International Immunology Summit Houston USA; title: Molecular impact induced by differently shaped graphene oxide on immune cells
12. 2/7/2015 Invited by Prof. Shelly Lu and Dr. Lauda Tomasi at the Cedar Sinai Medical Center, Department of Medicine Los Angeles, USA; title: Nanotechnology in everyday clinical practice: How far are we with carbon nanomaterials?
13. 29/6/2015 Invited by Prof. Erkii Ruoslahti at the Sandford Burnham Medical Discovery Center, La Jolla, San Diego, USA; Title: Carbon Nanomaterials in Medicine: Immune cell Interactions?
14. 27-29/5/2015 Invited speaker at "Nanoscience today: Perspectives, approaches and applications Workshop" organized by the University of Dresden, Dresden Germany; title: Issues and promises of carbon nanomaterials for biomedical applications
15. 9/04/2015 Invited by Prof. Marincola at the SIDRA Medical and Research Center, Doha, Qatar; title: New advances in biomedicine from nanotechnology: issues and promise of carbon nanomaterials
16. 04/02/2015 Invited by Dr. Tatiana Da Ros at the University of Trieste, Trieste, Italy; title: Nanotecnologie in biomedicina: nanotubi di carbonio funzionalizzati come potenziali immunomodulatori
17. 23-27/11/2014 Invited speaker at the 7th International Symposium On Macro- and Supramolecular Architectures and Materials Johannesburg, South Africa, title: Carbon nanomaterials for theranostic applications
18. 29/9-01/10/2014 Invited speaker at the 3rd International Conference and Exhibition on Clinical & Cellular Immunology, Baltimore, USA, Title: Functionalized carbon nanotubes as immunomodulator systems and ultrasound contrast agents
19. 19/5/2013 Invited at the prestigious research center National Institute of Health, Bethesda USA by dr. Davide Bedognetti; title: Carbon Nanotubes for Biomedical Applications
20. 17-19/4/2013 Invited speaker at the international conference Nanomed workshop, from nanomedicine to brain imaging Sardegna Ricerche Pula, Cagliari, Italy, title: Functionalized carbon nanotubes in nanomedicine

21. 16-17/1/2013 Invited speaker at the conference "Immunotherapy: what's new in the future oncology?" Meldola, Forlì Italy, title: Functionalized carbon nanotubes for immunotherapy
22. 11/5/2012 Invited by Prof. Renato Gennaro at University of Trieste, Italy; title: Carbon Nanotubes: applications in medicine
23. 26-29/9/2012 Invited Speaker at the 56th National meeting of the Italian Society of Biochemistry and Molecular Biology, Chieti, Italy; title "Functionalized carbon nanotubes and their application in biomedicine".
24. 1/7/2011 Invited by Prof. Andrea De Maria at University of Genoa, Italy; title: Nanotechnology and functionalized carbon nanotubes in Nanomedicine
25. 4/12/2010 Invited by Prof. Alberto Bianco at CNRS, Strasbourg, France; title: PEGylated carbon nanotubes into T cells
26. 28-30/9/2009 Speaker at the Nanotech Europe 2009 International Congress, Berlin, Germany, title: Increased IL-2 production by PEGylated carbon nanotubes Treated T-cell
27. 27-30/10/2008 Speaker at the 5th International Congress of Nano-Bio & Clean Tech 2008. San Francisco, USA; Title: ASO-conjugated PEGylated carbon nanotubes for PTPN22 silencing

Other Selected conference contributions

- 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*".

8 – ORGANIZATION OF SCIENTIFIC MEETINGS

- 1) 24-27/06/2017 Organization of the International Workshop Nano Biomed-Sardinia please see the full program and speakers list at <http://nanobiomed.sardinia.uniss.it/> ; over 200 participants, 11 Countries involved, several distinguished guests including 8 ERC winners.
- 2) 20/01/2017 Organization 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.
- 3) 2016 Main Organizer of the one-day Event "Science and Culture" in UNISS, Italy; plenary speakers included Prof. Francesco Marincola Chief of the Sidra Center, Doha, Qatar. Enrollment: >500.
- 4) 2016 Part of the scientific committee CIMTEC International Conferences on Modern Materials and Technologies Perugia, Italy.
- 5) 2011-2016 She organized at the University of Sassari lecture series 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). Number of participants :> 100.
- 6) 2014 "Science Day 2014 Symposium on Nanobiotechnology" University of Sassari, Italy. Role: Scientific committee. Number of participants: > 50.
- 7) 8-9/06/2012 International Conference "Cadmium Symposium". Role: Scientific Committee. Number of participants: >500 from more 18 countries.
- 8) 22/02/2011 Workshop "Chemical and biotech patents by Sardinia Research PATLIB". Role: Scientific committee. Number of participants: >200.

9 – COMMISSIONS OF TRUST

- 1) 2015 Invited expert on the review panel of FP7 from Project Officer FET Flagships – Excellence in Science European Commission Graphene Flagship
- 2) 2013- to date *Editorial Advisory Board*: Journal of Translational Medicine
- 3) 2013- to date Member of the Ph.D. School in Life Science at the University of Sassari, Italy.
- 4) 2012 Invited expert in different review panels for the *National Science Centre*, Poland.
- 5) 2012- to date *More than 80 papers refereed*, i.e., for: "ACSNano", "Nanotoxicology", "Biomaterials", "Carbon", "Nanoscale".

10 – MEMBERSHIP OF SCIENTIFIC SOCIETIES AND EDITORIAL BOARD

- 1) Member upon invitation of the SITC "Society for immunotherapy of Cancer"
- 2) 2013- to date she is part of the Editorial Advisory Board for: Journal of Translational Medicine, Autoimmunity, International Journal of Pharmaceutical Sciences Research

RESEARCH RECORDS

Dr. Delogu's first publication appeared in April 2009, therefore her academic career covers in total less than seven years considering a maternity leave.

Summary

30 articles published in peer-reviewed journals

18 articles as first author or senior and corresponding author

14 h-index (SCOPUS database)

8 articles on leading nanotechnology journals (Biomaterials, Nanoscale, Nanomedicine Lond, etc)

9 articles on leading interdisciplinary journal (i.e. PNAS as corresponding author)

1 article in press on Nature Comm as senior author

5 invited review

1 – SELECTED PUBLICATIONS

“Single cell mass cytometry reveals 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.

In press on Nature Communication

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

Russier R, Léon V, Orecchioni M, Hirata E, Viridis 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

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.

PMID: 27449989

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.

PMID: 27235665

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.

PMID: 26728491

Free PMC Article

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

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.

PMID: 26687729

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.

PMID: 25897336 Free PMC Article

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.

PMID: 25029354

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. PMID: 24885781 Free PMC Article

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

PMID: 23877972

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/nnm.14.78

PMID: 25253496

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.

PMID: 24625306

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

PMID: 24236019 Free PMC Article

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.

PMID: 24129241

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

PMID: 23507086

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

PMID: 23202360

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

PMID: 22362332

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

PMID: 23012426

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

PMID: 22361905

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

PMID: 22106855

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

PMID: 22472887

Gene expression profiling in acute allograft rejection: challenging the immunologic constant of rejection hypothesis.

Spivey TL, Uccellini L, Ascierto 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

PMID: 21992116

Infectious diseases and autoimmunity.

Delogu LG, Deidda S, Delitala G, Manetti R.

J Infect Dev Ctries. 2011 Oct 13;5(10):679-87. Review.

PMID: 21997935

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

PMID: 21929757

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

PMID: 22024493

Autoimmune-associated PTPN22 R620W variation reduces phosphorylation of lymphoid phosphatase on an inhibitory tyrosine residue.

Fiorillo E, Orrù 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

PMID: 20538612

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.

PMID: 21125885

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

PMID: 19243140

2 – MAJOR COLLABORATIONS

Dr. Delogu has authored collaborative papers or has papers in preparation or ongoing research projects with the following international groups:

- 1) Dr. A. Bianco (CNRS, Strasbourg, France), on carbon nanotubes and graphene as theranostics
- 2) Prof. F. Marincola and Dr. D Bedognetti (SIDRA Research and clinical Center, Doha, Qatar) on immunotherapy, melanoma, nanomaterials for applications in immunology
- 3) Prof. M. Prato (University of Trieste, Italy) graphene and immune impact
- 4) Prof. G. Cuniberti (TU Dreden, Germany) carbon materials for bio-applications
- 5) Prof. K. Kostarelos (Manchester University, UK) carbon materials and immune effects
- 6) Prof. M. Pasquali (RICE University, Houston – USA) carbon Nanotube fibers
- 7) Prof. E. Vazquez (Un. Castilla La Mancha, Spain) graphene applications in leukemia
- 8) Prof. G.Cesareni (University of Tor Vergata, Italy) carbon Nanomaterials for biomedical applications
- 9) Prof. E. Tasciotti (Methodist Hospital and Research Center, Houston, USA) nanomaterials in osteogenesis.