PERSONAL INFORMATION

Pietro Parisse

[redacted]
[redacted]
[redacted] ; [redacted]
[redacted]
[redacted]

WORK EXPERIENCE

July 2020 –

Researcher

Italian National Research Council – Istitito Officina dei Materiali .

Activity: Researcher in soft-matter, biophysics, nano-biotechnology

April 2019 – June 2020

Researcher

Umana S.p.A.

Activity: Staff leasing at Elettra Sincrotrone Trieste S.C.p.A. as researcher in nano-biotechnology

May 2017 – March 2019

Fixed-term Researcher

Elettra Sincrotrone Trieste S.C.p.A - S.S. 14 - km. 163,5 Basovizza 34149 Trieste (Italy)

- Activity: principal investigator of Interreg Ita-Austria project **Exosomes for regenerative, immunosuppressive, neuroprotective, and oncosuppressive therapies** (EXOTHERA – ITAT1036)

April 2015 – March 2017

Fixed-term Researcher

Elettra Sincrotrone Trieste S.C.p.A - S.S. 14 - km. 163,5 Basovizza 34149 Trieste (Italy)

- Activity: research at NanoInnovation Laboratory

March 2012- March 2015

Young Researcher Fellowship

INSTM – ST Unit – Trieste (Italy)

- Activity: Nanotechnological approaches towards cancer theragnostics

October 2008 - March 2012

Post-doctoral fellow

Elettra Sincrotrone Trieste S.C.p.A. – Trieste (Italy)

- Activity: Hybrid organic/inorganic interfaces for displays and biochips applications

EDUCATION AND TRAINING

June 2008 – August 2008

Visiting Researcher at National Physical Laboratory (NPL)

National Physical Laboratory (NPL) – London (UK)

- Development of Tuning Fork based Low Temperature Magnetic Force Microscope. Supervisors: Prof. A. Tzalenchuk and Dr. O. Kazakova, NPL

February 2007 – October 2007

Visiting Student at Kavli Institute of Nanoscience

Kavli Institute of Nanoscience – Delft University of Technology (Netherlands)

- Metal/organic interfaces: contact resistance in organic single crystal transistors. Supervisor: Prof. A.F. Morpurgo, Molecular and Electronic Devices, Kavli Institute of Nanoscience, Delft University of Technology

October 2005 – May 2009

PhD student in Physics

University of L'Aquila (Italy)

- Thesis title: *Morphological, structural, electronic, and transport properties of thin films and single crystals of aromatic compounds: pentacene, 6,13 pentacenequinone, rubrene*. Supervisor: Dr. L.Ottaviano

2002 - 2005

Master Degree in Physics

Full marks

University of L'Aquila (Italy)

- Experimental thesis: *Electronic and Structural properties of Pentacene in the thin film phase*. Supervisors: Prof. S.Santucci, Dr. L.Ottaviano, Dipartimento di Fisica, Università dell'Aquila

1999 - 2002

Degree in Physics

106/110

University of L'Aquila (Italy)

- Experimental thesis: *Experimental implementation of Spin-Polarized Scanning Tunneling Microscopy/Spectroscopy*. Supervisors: Prof. P.Picozzi, Dr. L.Ottaviano, Dipartimento di Fisica, Università dell'Aquila

PERSONAL SKILLS

Mother tongue: Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Excellent organizational skills and coordination of partners for the preparation of European and national research grants;
- Good predisposition in: time optimization and problem solving;
- Good communicative skills developed through different experiences in public science;
- Good attitude in interacting with different stakeholders, adapting the level of the discussion and the amount of information needed;
- Good attitude in team working;
- Good attitude in communication of complex topics, summarizing the main focus of the subject.

Technical skills

- Scientific background: structural, morphological and functional properties of biomacromolecules (DNA and proteins) and extracellular vesicles; surface science, organic semiconductors, scanning probe techniques, micro and nano lithography based on scanning probe microscopy
- Laboratory skills: soft lithography, exosomes purification, size exclusion chromatography, sample preparation for microscopy, surface biofunctionalization, scanning probe microscopies (Atomic and Magnetic Force Microscopy, Scanning Tunneling Microscopy/Spectroscopy, Scanning Electron Microscopy), diffraction and scattering tecniques (X-Ray Diffraction, Low Energy Electron Diffraction, small angle X ray and neutron scattering), photoemission spectroscopy, X ray spectro-microscopy, ultra high vacuum techniques.
- Good writing and presentation skills;
- Excellent presentation skills for complex topics in multidisciplinary fields (from surface physics to biophysics).

ADDITIONAL INFORMATION

Technology Transfer

- 2009-2019 Technical support for the ILO activities at Elettra Sincrotrone Trieste concerning scanning probe microscopies and bio-nano-technologies
- June – December 2019 Selected as Mentee in the REsearch Beyond Academia Mentoring Programme in the framework of Euraxess Top IV project https://www.euraxess.es/spain/spain-network/euraxess-top-iv/rebeca-mentoring-programme
- 23 October 2019 - Partecipation to the workshop "From a researcher to an entrepreneur" — Padriciano Campus - Area Science Park
- September – November 2019 – 30 hours course on Technology Transfer organized by Umana Forma

Abilitazione scientifica Nazionale

- Abilitazione scientifca nazionale II Fascia Settore concorsuale 02/B1 – Fisica Sperimentale della Materia from 12/04/2017 to 12/04/2028
- Abilitazione scientifca nazionale II Fascia Settore concorsuale 02/D1 – Fisica Applicata, Didattica e Storia della Fisica from 10/05/2019 to 10/05/2030
- Abilitazione scientifca nazionale II Fascia Settore concorsuale 03/A2 – Modelli e metodologie per le scienze chimiche from 10/05/2019 to 10/05/2030

Honours and awards

- 2007 Winner of a *P.O.R. FSE Abruzzo 2000-2006 Alta formazione* bursary for a 6 months research project in a foreign institution (Kavli Institute of Nanoscience, Delft, Netherlands)
- 2008 Winner of a *P.O.R. FSE Abruzzo 2000-2006 Alta formazione* bursary for a 3 months research project in a foreign institution (National Physical Laboratory, London, UK)

Teaching, supervising and mentoring activities

- 2009 – ongoing Training and supervising activity to undergraduates, PhD students and visiting fellows in the Nanoinnovation Laboratory at Elettra - Sincrotrone Trieste S.C.p.A
- 2009 – ongoing Presentation of the research activities of the laboratory and the institute during public events for general audience (i.e. EU Researchers' Night) and during on-site tours of the Elettra Synchrotron (both for audience with or without scientific background)
- 2006 – ongoing Tutoring activities for Master Degree students (3), Bachelor Degree students (3), Post- graduate Diploma Program students (2), PhD students (2)
- 26 Jun – 7 Jul 2017 Trainer during practical and theoretical sessions of AFM microscopy – 6th Neuron Technology Summer School, Trieste (Italy)
- 20 Jun – 1 Jul 2016 Trainer during practical and theoretical sessions of AFM microscopy – 6th Neuron Technology Summer School, Trieste (Italy)
- 8-18 Jun 2015 Trainer during practical and theoretical sessions of AFM microscopy – 5th Neuron Technology Summer School, Trieste (Italy)
- 14–25 Jul 2014 Trainer during practical and theoretical sessions of AFM microscopy – 4th Neurobiology Summer School, Trieste (Italy)
  11–22 Nov 2013 Trainer during practical and theoretical sessions of AFM microscopy - Advanced School on Synchrotron Radiation Techniques and Nanotechnology: A Synergic Approach to Life Sciences and Medicine, Stellenbosch (South Africa)

Publications

H-index (Google Scholar) = 22 H-index (Scopus) = 19

84 contributions/1993 citations

1) Merolle, L.; Pascolo, L.; Zupin, L.; Parisse, P.; Bonanni, V.; Gariani, G.; Kenig, S.; Bedolla, D.E.; Crovella, S.; Ricci, G.; Iotti, S.; Malucelli, E.; Kourousias, G.; Gianoncelli, A. Impact of Sample Preparation Methods on Single-Cell X-ray Microscopy and Light Elemental Analysis Evaluated by Combined Low Energy X-ray Fluorescence, STXM and AFM. Molecules 2023, 28, 1992
2) Vadrucci, M.; Cicero, C.; Mazzuca, C.; Severini, L.; Uccelletti, D.; Schifano, E.; Mercuri, F.; Zammit, U.; Orazi, N.; D'Amico, F.; Parisse, P. Evaluation of the Irradiation Treatment Effects on Ancient Parchment Samples. Heritage 2023, 6, 1308-1324
3) M. Brioschi, P. Carrara, V. Polewczyk, D. Dagur, G. Vinai, P. Parisse, S. Dal Zilio, G. Panaccione, G. Rossi, and R. Cucini, Multidetection scheme for transient-grating-based spectroscopy, Opt. Lett. 48, 167-170 (2023)
4) Alsadig A, Abbasgholi-NA B, Vondracek H, Medagli B, Fortuna S, Posocco P, Parisse P, Cabrera H, Casalis L. DNA-Directed Protein Anchoring on Oligo/Alkanethiol-Coated Gold Nanoparticles: A Versatile Platform for Biosensing Applications. *Nanomaterials*. 2023; 13(1):78.
5) Santulli, C., Bon, C., De Cecco, E., Codrich, M., Narkiewicz, J., Parisse, P., Perissinotto, F., Santoro, C., Persichetti, F., Legname, G., Espinoza, S., Gustincich, S.,Neuronal haemoglobin induces loss of dopaminergic neurons in mouse Substantia nigra, cognitive deficits and cleavage of endogenous α-synuclein. Cell Death Dis 13, 1048 (2022).
6) Senigagliesi, B, Bedolla, D. E., Birarda, G., Zanetti, M., Lazzarino, M., Vaccari, L., Parisse, P., Casalis, L. "Subcellular elements responsive to the biomechanical activity of triple-negative breast cancer-derived small extracellular vesicles" Biomolecular Concepts, vol. 13, no. 1, 2022, pp. 322-333. (co-corresponding)
7) Conti M, Bolzan I, Dal Zilio S, Parisse P, Andolfi L, Lazzarino M. Water–Air Interface to Mimic In Vitro Tumoral Cell Migration in Complex Micro-Environments. Biosensors. 2022; 12(10):822. https://doi.org/10.3390/bios12100822
8) M. Grava, S. Helmy, M. Gimona, P. Parisse, L. Casalis, P. Brocca, V. Rondelli Small extracellular vesicles impact on target membrane structure and dynamics, Il Nuovo Cimento C, DOI: 10.1393/ncc/i2022-22196-2
9) Spelat, R., Jihua, N., Sánchez Triviño, C.A. et al. The dual action of glioma-derived exosomes on neuronal activity: synchronization and disruption of synchrony. Cell Death Dis 13, 705 (2022). https://doi.org/10.1038/s41419-022-05144-6
10) Senigagliesi, Beatrice; Samperi, Giuseppe; Cefarin, Nicola; Gneo, Luciana; Petrosino, Sara; Apollonio, Mattia; Caponnetto, Federica; Sgarra, Riccardo; Collavin, Licio; Cesselli, Daniela; Casalis, Loredana; Parisse, Pietro Triple negative breast cancer-derived small extracellular vesicles as modulator of biomechanics in target cells, Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 44, 102582
11) Rondelli, Valeria; Helmy, Sally; Passignani, Giulia; Parisse, Pietro; Di Silvestre, Dario, Integrated Strategies for a Holistic View of Extracellular Vesicles, ACS Omega, 2022, 7, 19058 - 19069. (Corresponding)
12) Curci, Debora; Lucafò, Marianna; Parisse, Pietro; Decorti, Giuliana; Bramuzzo, Matteo; Casalis, Loredana; Stocco, Gabriele , Atomic Force Microscopy Application for the Measurement of Infliximab Concentration in Healthy Donors and Pediatric Patients with Inflammatory Bowel Disease, Journal of Personalized Medicine, 2022, 12, 948, DOI: 10.3390/jpm12060948(Corresponding)
13) Grava, Miriam, Helmy, Sally, Gimona, Mario, Parisse, Pietro, Casalis, Loredana, Brocca, Paola and Rondelli, Valeria. "Calorimetry of extracellular vesicles fusion to single phospholipid membrane" Biomolecular Concepts, 2022, 13, 148-155.
14) Alsadig, A.; Vondracek, H.; Pengo, P.; Pasquato, L.; Posocco, P.; Parisse, P.; Casalis, L. Label-Free, Rapid and Facile Gold-Nanoparticles-Based Assay as a Potential Spectroscopic Tool for Trastuzumab Quantification. Nanomaterials 2021, 11, 3181.
15) B. Abbasgholi N. A., A. Alsadig, L. Casalis, P. Parisse, J. Niemela, S. Bellucci, H. Cabrera, An electrophoresis approach with online thermal lens detection to monitoring DNA surface coatings on gold nanoparticles, Microchemical Journal, 2021,106961
16) A. Simoncig, M. Manfredda, B. Rösner, N. Mahne, L. Raimondi, F. Capotondi, E. Pedersoli, G. De Ninno, P. Parisse, M. Zangrando, Tomography of a seeded free-electron laser focal spot: qualitative and quantitative comparison of two reconstruction methods for spot size characterization" Opt. Express 29, 36086-36099 (2021)
17) M. Pachetti, F. D'Amico, L. Pascolo, S. Pucciarelli, A. Gessini, P. Parisse, L. Vaccari, C. Masciovecchio, UV Resonance Raman explores protein structural modification upon fibrillation and ligand interaction, Biophysical Journal, 120 (2021) 4575-4589

18) E. Azzalini, N. Abdurakhmanova, P. Parisse, M. Bartoletti, V. Canzonieri, G. Stanta, L. Casalis, S. Bonin, CELL-STIFFNESS AND MORPHOLOGICAL ARCHITECTURAL PATTERNS IN CLINICAL SAMPLES OF HIGH GRADE SEROUS OVARIAN CANCERS, Nanomedicine: Nanotechnology, Biology and Medicine, (2021) 102452
19) Perissinotto F., Rondelli V., Senigagliesi B. , Brocca P., Almasy L., Bottyan L., Merkel D. G., Amenitsch H., Sartori B., Pachler K., Mayr M., Gimona M., Rohde E., Casalis L, Parisse P., Structural Insights on Fusion Mechanisms of Small Extracellular Vesicles with Model Plasma Membranes, Nanoscale, 13 (2021) 5224
20) Mohammed Khalid, A.A.; Parisse, P.; Medagli, B.; Onesti, S.; Casalis, L. Atomic Force Microscopy Investigation of the Interactions between the MCM Helicase and DNA. Materials, 14, (2021), 687.
21) Musto M., Memo C., Pachetti M., Parisse P., Kostarelos K., Casalis. L, Ballerini L. Shedding Plasma Membrane Vesicles Induced by Graphene Oxide Nanoflakes in Brain Cultured Astrocytes, Carbon, 176, (2021) 458
22) Perissinotto, F., Senigagliesi, B., Vaccari, L., Pachetti, M., D'Amico, F., Amenitsch, H., Sartori, B., Pachler, K., Mayr, M., Gimona, M., Rohde, E., Caponnetto, F., Cesselli, D., Casalis, L., Parisse, P. Multi-technique analysis of extracellular vesicles: not only size matters, Advances in Biomembranes and Lipid Self-Assembly, 32 (2020) 157-177 (last and corresponding author)
23) I. Ahmed, T. Mathur, A. K. M. M. Islam, J. R. Plaisier, P. Parisse, S. Thomas, J. K. Bal, Structure and Elastic Properties of an Unsymmetrical Bi-Heterocyclic Azo Compound in the Langmuir Monolayer and Langmuir–Blodgett Film, ACS Omega 5 (2020) 21538-21549
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25) Furlani, F., Parisse, P., Sacco, P. On the formation and stability of chitosan/hyaluronan-based complex coacervates, Molecules, 25 (2020). 1071
26) Perissinotto, F., Stani, C., De Cecco, E., Vaccari, L., Rondelli, V., Posocco, P., Parisse, P., Scaini, D., Legname, G., Casalis, L., Iron-mediated interaction of alpha synuclein with lipid raft model membranes, Nanoscale, 12 (2020) 7631-7640.
27) Vadrucci, M., Cicero, C., Parisse, P., Casalis, L., De Bellis, G. Surface evaluation of the effect of X-rays irradiation on parchment artefacts through AFM and SEM, Applied Surface Science, 513(2020) 145881
28) Gerratana, L., Basile, D., Toffoletto, B., Bulfoni, M., Zago, S., Magini, A., Lera, M., Pelizzari, G., Parisse, P., Casalis, L., Vitale, M.G., Fanotto, V., Bonotto, M., Caponnetto, F., Bartoletti, M., Lisanti, C., Minisini, A.M., Emiliani, C., Di Loreto, C., Fasola, G., Curcio, F., Beltrami, A.P., Cesselli, D., Puglisi, F. Biologically driven cut-off definition of lymphocyte ratios in metastatic breast cancer and association with exosomal subpopulations and prognosis, Scientific Reports, 10 (2020), 7010
29) G. Birarda, A. Delneri, C. Lagatolla, P. Parisse, P. Cescutti, L. Vaccari, R. Rizzo, Multi-technique microscopy investigation on bacterial biofilm matrices. A study on Klebsiella pneumoniae clinical strains. Anal. Bioanal. Chem. 411 (2019) 7315-7325
30) F. Perissinotto, V. Rondelli, P. Parisse, N. Tormena, A. Zunino, L. Almásy, D.G. Merkel, L. Bottyán, Sz. Sajti, L. Casalis, GM1 Ganglioside role in the interaction of Alpha-synuclein with lipid membranes: Morphology and structure, Biophysical Chemistry, 255 (2019) 106272 (corresponding author)
31) Pinto, G., Parisse, P., Solano, I., Canepa, P., Canepa, M., Casalis, L., Cavalleri, O. Functionalizing gold with ssDNA: novel insights into optical properties via combined spectroscopic ellipsometry and nanolithography measurements Soft Matter 15 (2019) 2463 (corresponding author)
32) Senigagliesi, B., Penzo, C., Severino, U. L., Maraspini, R., Petrosino, S., Morales-Navarrete, H., Pobega, E., Ambrosetti, E., Parisse, P., Pegoraro, S., Manfioletti, G., Casalis, L., Sgarra, R. The High Mobility Group A1 (HMGA1) Chromatin Architectural Factor Modulates Nuclear Stiffness in Breast Cancer Cells, International Journal of Molecular Sciences, 20 (2019) 1422-0067
33) D. Cesselli, P. Parisse, A. Aleksova, C. Veneziano, C. Cervellin, A. Zanello, Beltrami AP Extracellular Vesicles: How Drug and Pathology Interfere With Their Biogenesis and Function. Front. Physiol. 9 (2018) 1394
34) P. S. Gil, D. J. Lacks, P. Parisse, L. Casalis, M. D. Nkoua Ngavouka, Single-stranded DNA oligomer brush structure is dominated by intramolecular interactions mediated by the ion environment, Soft Matter, (2018) DOI: 10.1039/c8sm01743c.
35) S. Salentinig, M. Zabara, P. Parisse, H. Amenitsch Formation of highly ordered liquid

crystalline coatings – an in situ GISAXS study, Phys Chem. Chem. Phys. 20 (2018) 21903
36) Merolle L, Sponder G, Sargenti A, Mastrototaro L, Cappadone C, Farruggia G, Procopio A, Malucelli E, Parisse P, Gianoncelli A, Aschenbach JR, Kolisek M, Iotti S Overexpression of the mitochondrial Mg channel MRS2 increases total cellular Mg concentration and influences sensitivity to apoptosis, Metallomics 10 (2018) 917
37) Altissimo, M., Iacopi, A., Hold, L., Matruglio, A., Zucchiatti, P., Vaccari, L., Bedolla, D.E., Severino, L.U., Parisse, P., Gianoncelli, A., Silicon Carbide membranes as substrate for Synchrotron measurements, Journal of Instrumentation, 13 (2018) C05017
38) Thickness and Beyond. Exploiting Spectroscopic Ellipsometry and Atomic Force Nanolithography for the Investigation of Ultrathin Interfaces of Biologic Interest, P. Parisse, I. Solano, M. Magnozzi, F. Bisio, L. Casalis, O. Cavalleri, M. Canepa - Book chapter on K. Hinrichs and K.-J. Eichhorn (eds.), Ellipsometry of Functional Organic Surfaces and Films, Springer Series in Surface Sciences 52, https://doi.org/10.1007/978-3-319-75895-4_4 (first author)
39) Atomic Force Microscopy analysis of extracellular vesicles, P. Parisse, I. Rago, L. Ulloa Severino, F. Perissinotto, E. Ambrosetti, P. Paoletti, M. Ricci, A.P. Beltrami, D. Cesselli, L. Casalis, European Biophysical Journal 46 (2017) 813 (first and corresponding author)
40) Site accessibility tailors DNA cleavage by restriction enzymes in DNA confined monolayers, C. Rotella, G. Doni, A. Bosco, M. Castronovo, A. De Vita, L. Casalis, G. Pavan, P. Parisse, Nanoscale 9 (2017) 6399 (last and corresponding author)
41) Quantification of Circulating Cancer Biomarkers via Sensitive Topographic Measurements on Single Binder Nanoarrays, E. Ambrosetti, P. Paoletti, A. Bosco, P. Parisse, D. Scaini, E. Tagliabue, A. de Marco, L. Casalis ACS Omega 2, (2017) 2618
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43) DNA-conjugated gold nanoparticles based colorimetric assay to assess helicase activity: a novel route to screen potential helicase inhibitor J. Deka, A. Mojumdar, P. Parisse, S. Onesti, L. Casalis, Scientific Reports, 7 (2017) 44538
44) Atomic Force Microscopy and Spectroscopic Ellipsometry combined analysis of Small Ubiquitin-like Modifier adsorption on functional monolayers, I. Solano, P. Parisse, F. Gramazio, L. Ianeselli, B. Medagli, O. Cavalleri, L. Casalis, M. Canepa Applied Surface Science 421 (2017) 722 (co-first and corresponding author)
45) Circulating disease biomarkers detection in complex matrices: real-time, in situ measurements of DNA/miRNA hybridization via Electrochemical Impedance Spectroscopy P. Capaldo, S.R. Alfarano, L. Ianeselli, S. Dalzilio, A. Bosco, P. Parisse and L. Casalis, ACS Sensors 1 (2016) 1003 (corresponding author)
46) Direct formation of gold nanorods on surfaces using polymer-immobilised gold seeds M. Kazemian, P. Parisse and L. Casalis, Beilstein J. Nanotechnology 7 (2016) 809
47) Mismatch detection in DNA monolayers by atomic force microscopy and electrochemical impedance spectroscopy M.D. Nkoua Ngavouka, P. Capaldo, E. Ambrosetti, G. Scoles, L. Casalis, P. Parisse Beilstein J. Nanotechnology, 7 (2016) 220 (corresponding and last author)
48) Investigating organic multilayers by Spectroscopic Ellipsometry: Specific and non-specific interactions of hexahistidine with NTA Self Assembled Monolayers, I. Solano, P. Parisse, O. Cavalleri, F. Gramazio, L. Casalis and M. Canepa Beilstein J. Nanotechnology 7 (2016) 544
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50) Silver nanoparticles on nanopatterned LiF(110) surface studied by extreme ultraviolet light scattering, A. Giglia, P. Parisse, P. Miotti, S. Nannarone, J. Appl. Phys., 118 (2015) 235302
51) Spectroscopic Ellipsometry meets AFM nanolitography: about hydration of bio-inert oligo(ethylene glycol)-terminated Self assembled Monolayers on gold, I. Solano, P. Parisse, F. Gramazio, O. Cavalieri, G. Bracco, M. Castronovo, L. Casalis and M. Canepa, Phys. Chem. Chem. Phys., 17 (2015) 28774
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56) A DNA-based nano-immunoassay for the label-free detection of Glial Fibrillary Acidic Protein in multicell lysates A. Bosco, M. Ganau, A. Palma, S. Corvaglia, P. Parisse, L. Fruk, A.P. Beltrami, D. Cesselli, L. Casalis, G. Scoles, Nanomedicine: Nanotechnology, Biology, and Medicine, 11, (2015) 293
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58) Glioma-Associated Stem Cells: a Novel Class of Tumour-Supporting Cells Able to Predict Prognosis of Human Low Grade Gliomas, E. Bourkoula, D. Mangoni, T. Ius, A. Pucer, M. Isola, D. Musiello, S. Marzinotto, B. Toffoletto, M. Sorrentino, A. Palma, F. Caponnetto, G. Gregoraci, M. Vindigni, S. Pizzolitto, G. Falconieri, G. De Maglio, V. Pecile, M. Gruaro, G. Gri, P. Parisse, L. Casalis, G. Scoles, M. Skrap, C.A. Beltrami, A.P. Beltrami, D. Cesselli, Stem cells, 32, (2014) 1239
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Conferences, Workshops and Seminars

1) 31 January – 03 February 2023, QuantitatEVs ISEV workshop – Trento/Milano (IT) (oral presentation)
2) 28-29 October 2022, Small New World – ASEV&GSEV meeting – Salzburg (AT) (invited talk)
3) 29-30 September 2022, 2nd EVITA Workshop – Torino (oral presentation)
4) 4-9 September 2022, 16th MCM Congress – Brno (CZ) – (invited talk)
5) 25 March 2022, Invited lecture, Graduate School in Reproduction and Developmental Sciences, University of Trieste
6) 15-17 September 2021, 2021 NanoScientific Forum Europe – virtual conference, (poster)
7) 28 June-02 July 2021, XXV Congresso Nazionale SIPBA – virtual conference, (poster)
8) 23 June 2021, University of Sassari, virtual invited seminar
9) 15 June 2021, WebEVtalk, virtual invited seminar
10) 18 May – 21 May, ISEV 2021, virtual conference (poster)
11) 3-4 November 2020, Virtual RMS AFM&SPM meeting 2020, (poster)
12) 14-18 September 2020, 106° Congresso nazionale Società Italiana di Fisica, Virtual conference (oral presentation)
13) 20-22 July 2020, ISEV 2020 – Virtual conference – (poster)
14) 21-22 November 2019 – STSPM19EV - Bologna (IT) (invited talk)
15) 16 October 2019 - 16. Linzer Forum Medizintechnik – Linz (At) (invited talk)
16) 11-13 September 2019 – 2019 NanoScientific Forum Europe – Bologna (IT) (talk)
17) 25-27 July 2019 – Prolin 2019 – Bilbao (ES) – (Oral presentation)

18) 20-24 July 2019 – EBSA 2019 – Madrid (ES) – (poster:)
19) 5 February 2019 – AFM workshop – Venezia University – Venice (IT) (Invited talk)
20) 15-17 September 2018 – Workshop Patologie Cardiometaboliche – Udine (IT) (invited lecture: Microvescicole: metodiche per vescicole extracellulari)
21) 10-13 September 2018 – XXIV Convegno Nazionale SIBPA – Ancona (IT) (talk: Extracellular vesicles: new insights from multi-technique analyses)
22) 14 December 2017 – SARA 2017 Workshop – Lincoln (UK) (invited talk: Biophysical analysis of Extracellular Vesicles)
23) 1-5 October 2017 – FisMat 2017 – Trieste (Italy) (talk: Biophysical analysis of Extracellular Vesicles)
24) 18-22 June 2017 – Photonics for Health Summer school 2017 – San Martino di Castrozza (Italy) (Invited talk: Surface functionalization and proper binders choice to optimize biosensing strategies)
25) 1-3 March 2017 – Nanoscience at modern X-ray sources – Hamburg (Germany) (poster: Synchrotron Radiation and Free Electron Laser experiments on natural vesicles)
26) 20-21 October 2016 - Science Through Scanning Probe Microscopy 2016, Bologna (Italy) (talk: AFM characterization of Extracellular Vesicles)
27) 25-28 Aug 2016 – Regional Biophysics Conference 2016 – Trieste (Italy) (talk: AFM characterization of Extracellular Vesicles)
28) 18 Mar 2016 –Department of Physics – Università di Genova (Italy) (Invited seminar: The chemical physics of exosome detection)
29) 29 Jan - 1 Feb 2016 - XVIII Annual Linz Winter Workshop- Advances in Single-Molecule Research for Biology & Nanoscience, Linz (Austria) (talk)
30) 29 Jun-2 Jul 2015 – European Conference on Organised Films, Genova (Itay) (talk)
31) 3-5 Sept 2014 – Physics meets Biology 2014, Oxford (UK) (poster: Atomic Force Microscopy imaging and characterization of tumour derived exosomes)
32) 25-27 Jun 2014 – Surfaces, Interfaces and Functionalization Processes in Organic Compounds and Applications 2nd Workshop, Trieste (Italy) (talk)
33) 15-19 Feb 2014– 58th Annual Meeting of the Biophysical Society, San Francisco (USA) (poster)
34) 13-14 Dec 2013 - Science Through Scanning Probe Microscopy 2013, Bologna (Italy) (talk)
35) 11-22 Nov 2013 - Advanced School on Synchrotron Radiation Techniques and Nanotechnology: A Synergic Approach to Life Sciences and Medicine, Stellenbosch (South Africa) (invited talk)
36) 23-27 Sept 2013 - Italian Physical Society XCIX National Congress Trieste (Italy) (talk)
37) 22-26 Apr 2013 - Imaginenano 2013 – Bilbao (Spain) (talk)
38) 20-25 May 2012 - Gordon Research Conference on Biointerface Science – Les Diablerets (Switzerland) (poster)
39) 26-30 Sept 2011 - Italian Physical Society XCVII National Congress L'Aquila (Italy) (talk)
40) 23-27 Aug 2011 - 8th European Biophysics Congress, Budapest (Hungary) (talk)
41) 30 Jun - 2 Jul 2010 - R3: 1st workshop on DNA replication, recombination and repair, S. Miniato - Pisa (Italy) (poster)
42) 27-30 Sept 2009 - Joint Conference on Advanced Materials FNMA & IMIM 09, Sulmona - L'Aquila (Italy) (talk)
43) 4-6 Feb 2009 - XI Annual Linz Winter Workshop- Advances in Single-Molecule Research for Biology & Nanoscience, Linz (Austria) (poster)
44) 9-12 Sept 2008 - Electroluminescence 2008, Bagni di Tivoli - Rome (Italy) (talk)
45) 14-16 Jul 2008 - 5th International Conference on Nanoscience and Nanotechnology, Thessaloniki (Greece) (talk)
46) 24-28 Mar 2008 - MRS Spring Meeting, San Francisco (USA) (poster)
47) 5-8 Sept 2007 - European Conference on Molecular Electronics, Metz (France) (poster)
48) 4-8 Sept 2006 - European Conference on Surface Science, Paris (France) (poster)

Research Projects and Large Scale Facility Proposals

- 19/03/2019 - Seal of excellence for the proposal EXCHANGE 838930 - ***Marie Skłodowska-Curie actions call H2020-MSCA-IF-2018 - Proponent***
- 01/02/2017- 01/08/2019 ITAT1036 EXOTHERA project (Interreg Italia-Austria VA) - ***Principal investigator***
- Extracellular vesicles/membrane interaction: a multi technique approach" CERIC proposal n. 20187082 – ***Proponent***
- On going "Chemical fingerprints of Extracellular vesicles" Proposal n. 2018/0201 at Elettra - Sincrotrone Trieste S.C.p.A ***- Proponent***
- "A multi technique approach for Extracellular vesicles biophysical characterization" CERIC proposal n. 20172094 – ***Proponent***
- 25/04/2016 – 30/04/2016 "Chemical fingerprints of exosome uptake in living cells

Proposal n. 2015/5372 at Elettra - Sincrotrone Trieste S.C.p.A. – ***Proponent***

- 08/09/2015 – 15/09/2015 "Exosomes distribution in cells via X-ray Fluorescence Microscopy" Proposal n. 2015/0099 at Elettra - Sincrotrone Trieste S.C.p.A – ***Proponent***
- 02/03/2015 – 08/03/2015 "Exosomes distribution in cells via X-ray Fluorescence Microscopy" Proposal n. 2014/5388 at Elettra - Sincrotrone Trieste S.C.p.A - ***Proponent***
- 10/10/2013 – 15/10/2013 "Effect of ionic strength on end-tethered ssDNA and dsDNA molecules on ultra flat gold surfaces" Proposal n. 2013/0073 at Elettra - Sincrotrone Trieste S.C.p.A.***- Proponent***
- 15/03/2012 – 18/03/2012 "Enzymatic reaction on DNA modified gold nanoparticles" Proposal n. 2011/5320 at Elettra - Sincrotrone Trieste S.C.p.A ***- Proponent***
- 31/12/2011 – 30/05/2014 AIRC 5 per mille "Application of Advanced Nanotechnology in the Development of Innovative Cancer Diagnostics Tools" - ***Collaborator***
- 15/03/2012 – 14/03/2015 FIRB accordi di programma 2011 – "Nanotechnological approaches towards cancer theragnostics" - ***Collaborator***