Prof. Stefano Leporatti
CNR NANOTEC– Istituto di Nanotecnologia
Polo di nanotecnologia c\o Campus Ecotekne
Via Monteroni
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Curriculum Vitae et studiorum
Prof. Stefano Leporatti, PhD

Stefano Leporatti was among **pioneers** in Italy in the ***Scanning Force Microscopy (SFM)*** field since he started working as one of the first Digital Instruments (now Veeco Instruments) SFM user April 1993 when only few italian groups were dealing with commercial SFM and he was among **pioneers** also of the polyelectrolyte layer-by-layer (LbL) assembly of ***micro- and nanocapsules*** a nanotechnology method which, after first papers in 1998, was followed by many hundred publications by researchers all over the world. LbL nanoassembly of polyelectrolytes nanocapsules has already found industrial applications like drug delivery, sustained release, cancer drug nanocarriers and others.
Stefano Leporatti published **270+ *Publications*** (**140+** in ***Peer Reviewed papers***, ***4 book chapters***-including **4 *invited Review***-) on biophysical and physical chemistry nanostructures. He has participated to **130+ *Conferences\Workshops*** and has given **40+ invited talks**. He is Reviewer of **130+** Peer Reviewed Journals such as: *Chemical Physics Letters*, *Synthetic Metals, Langmuir, Nanotechnology, International Journal of Polymer Science, J. of Biomechanics, Acta Biomaterialia, Nanomedicine (Future Medicine), ACS Nano, Biomacromolecules, Bioinorganic Chemistry and Applications, ACS Applied Materials and Interfaces Expert Opinion on Drug Delivery, Bioinorganic Chemistry and Applications, Journal of Colloid and Interface Science, Drug Delivery Letters, Current Pharmaceutical Design, Nanoscale, J. Controlled Release, Scientific Reports,* National Projects **Reviewer** (FIRB; PRIN) for *Italian Ministry of University and Research (MIUR),* FCT - Fundação para a Ciência e a Tecnologia, (CNR Portughais) Project **Referee** (since 2012) and many others.
Leporatti's ***total citation index*** is **6,300+** with an **average *number of citations per Items* 40+, average *number of citations* per Year 40+** and a ***h-index*** of **40** (ISI web of Science, update February 2026).
Stefano Leporatti has been **Coordinator of Progetto Bilaterale Italia-Portogallo** *"Nanocapsule e nanoparticelle per il delivery controllato di Beta-Sheet Breaker Peptides"* (Accordo di Cooperazione scientifica tra il CNR e la FCT) with Prof. Manuel Coelho (Department of Chemical Engineering, Porto University, Portugal) (2009-2010)
Stefano Leporatti has been **Coordinator of Progetto Bilaterale di Grande Rilevanza Italia-USA (2009-2011)**, *"Nanocarriers for Cancer Therapy"* selected (within best 20) between 400 applications for financing from Italian Ministero degli Affari Esteri (MAE) in April 2008.
*Stefano Leporatti has been **CNR-Nano Responsable of Progetto** Marie Curie Initial Training Networks (ITN) "Strategy to Inihibit TGF-β1 in liver disease (IT-Liver)" (2012-2016) Coordinator: Dr. Isabel Fabregat, (IDBELL, Madrid, Spain), Call: FP7-PEOPLE-2012-ITN.*

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STEFANO LEPORATTI

Born: **Rapallo (Genova) –Italy, November 17th, 1967.**
Work address: **CNR-NANOTEC, Istituto di Nanotecnologia**
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Ph: **+39 0832 3 19829**
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email: stefano.leporatti@unisalento.it, stefano.leporatti@nanotec.cnr.it
web page: www.nanotec.cnr.it
ORCID iD: orcid.org/0000-0001-5912-7565
Web of Science ResearcherID: E-1597-2011
Scopus Author ID: 6603690329
Publons: https://publons.com/researcher/880659/stefano-leporatti/
Google Scholar: https://scholar.google.it/citations?user=Zcl1tcIAAAAJ&hl=it
Linkedin: https://www.linkedin.com/in/stefano-leporatti-161ab420/
Researchgate: https://www.researchgate.net/profile/Stefano_Leporatti
Loop: https://loop.frontiersin.org/people/123280/overview
Facebook: https://it-it.facebook.com/stefano.leporatti.5
Twitter:https://twitter.com/LepoStefano
Instagram: https://bigsta.net/account/stefano.leporatti.5/
SciProfile: https://sciprofiles.com/profile/150172
https://topitalianscientists.org/tis/51231/Stefano_Leporatti_-_Top_Italian_Scientists_in_Material_&_Nano_Sciences

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Curriculum Vitae et studiorum
Prof. Stefano Leporatti, Ph.D

Work Experience

(October-November 2022) Visiting Scientist @ Department of Nanobiotechnology, Institute for Biophysics @ BOKU (University of Natural Resources and Life Sciences) Vienna (Austria)

(January-February 2018) Visiting Scientist @ Department of Nanobiotechnology, Institute for Biophysics @ BOKU (University of Natural Resources and Life Sciences) Vienna (Austria)

(October-November 2014) Visiting Scientist @ Methodist Hospital Research Institute, Department of Nanomedicine, Houston, TX (USA)

(September 2012- present) Lecturer @ UniSalento for Nanotechnology and Nanoscience

- 2009 Visiting Scientist @ Institute for Micromanifacturing, (IfM) Louisiana Tech University, Ruston Louisiana (USA)

- 1st -30th June 2024 Visiting Professor @ Department of Nanobiotechnology, Institute for Biophysics @ BOKU (University of Natural Resources and Life Sciences) Vienna (Austria).

(May 2006 - 27th December 2018):
Fixed-term CNR Senior Researcher ("Primo Ricercatore CNR, Associate Professor Equivalent.") @ CNR NANOTEC in Lecce, NanoCarriers and BioMechanics Group Leader
www.nanotec.cnr.it

(27th December 2018-15th October 2020):
Permanent CNR Senior Researcher ("Primo Ricercatore CNR, Associate Professor Equivalent.") @ CNR NANOTEC in Lecce, NanoCarriers and BioMechanics Group Leader

(15th October 2020-Present)
CNR Research Director ("Dirigente di Ricerca CNR, Full Professor Equivalent.") @ CNR NANOTEC in Lecce and NanoCarriers and BioMechanics Group Leader

Projects/Research Fields:

1. *Morfostructural Studies by means of Bio-AFM* of *living* (in cultured medium and in vital condition) and *fixed cells* (in *air and* in *liquid*).
2. *Nanomechanical investigation of cells elasticity* (i.e. tumoral, stem, neuronals) by means of force mapping (*Force Volume*) and their analysis by dedicated theoretical models.
3. *Investigation of cellular morphology by means of Confocal Microscopy* (*imaging*) on fixed (and living) cells with single and multi-labelling fluorescence.

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4. *Engineering Microenvironment* by *Layer by Layer (LbL) biocomposites films* for breast cancer cells controlled growth: *Morphostructure and Cytomechanics study.*
5. *Morfostructural Characterization and elasticity study* on single cell level (by AFM) in cultured *cancer(stem) cells* during differentiation before and after treatment with natural antioxidant molecules (polyphenols)
6. *Development of Nano and Microcapsules* of biocompatible\degradable polyelectrolyte multilayers for incapsulation of low solubility drugs and for intracellular controlled delivery.
7. *Development and Characterization of Nanocarriers* produced by LbL encapsulation for studying *uptake* in *cancer cells* with application in novel therapies against Cancer. **Progetto Bilaterale di Grande Rilevanza Italia-USA**, *"Nanocarriers for Cancer Therapy"* from Italian Ministero degli Affari Esteri (MAE) (ITA Coordinator **Dr. Stefano Leporatti**, USA Coordinator **Prof. Yuri M. Lvov**, Institute of Micromanifacturing (IfM) Lousiana Tech. University, Ruston, Lousiana).
8. *Development, characterisation and antineoplastic drug-encapsulation of Halloysite Nanotubes for delivery into Cancer Cells* in collaboration with **Prof. Yuri M. Lvov**, Institute of Micromanifacturing (IfM) Lousiana Tech. University, Ruston, Lousiana (USA) (2008-2011).
9. Production and characterization of "*Nanocapsule e nanoparticelle per il delivery controllato di Beta-Sheet Breaker Peptides"*in collaboration with **Prof. Manuel Coelho** (Department of Chemical Engineering, Porto University, Portugal) through "Accordo di Cooperazione scientifica tra il CNR e la FCT " (2009-2010).

(August 2001-April 2006):
Research Scientist (Wissenschaftlicher Mitarbeiter) @Leipzig University, Institute of Medical Physics & Biophysics, Härtelstrasse 16/18, 04107 Leipzig (Germany) (Group of Prof. Dr. E. Donath)
www.uni-leipzig.de
Projects/Research Fields:
1) "Interaction Forces between Cellulose Microspheres and Ultrathin Cellulose Films Monitored by Colloidal Probe Microscopy –Screening of Potential Wet Strength Agents for Improving Functional Tissues Properties"

2) "Colloidal Force Microscopy Studies by means of Polyelectrolyte and Lipid Coated Colloidal Particles Modified Atomic Force Microscopy Microcantilevers"

3) "Colloidal Probe Microscopy Investigation of Viscoelastic and Mechanical Properties of Macrophages upon Lipopolysaccharide Stimulation"

(February 2001- July 2001)**:**
Application Engineer @Digital Instruments/Veeco Metrology Group (now Veeco Instruments), Janderstrasse 9, 68199 Mannheim (Germany)
www.veeco.com
Activities/Function: Responsible in the field of *Life Science and Biology* for Contact and Demonstration for Customers in- and out -house and at National and International Conferences and Meetings of the following types of ***Atomic Force Microscopies*** by Digital Instruments/Veeco Metrology Group: Multimode™, Dimension 3100 ™ , Bioscope ™ I.

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*(February 1999- February 2001)***:**
Postdoc @Max-Planck-Institute of Colloids and Interfaces (Supervisor Prof. Dr. H. Möhwald)
http://www.mpg.de/
Projecs/Research Field:
"Scanning Force Microscopy Investigation of Multicomposite Polyelectrolyte Multilayered Micro- and Nanocapsules"
Am Mühlenberg 1, Max Planck Campus D-14424 Golm/Potsdam. Germany.

(November 1995-February 1999)
Ph.D (Doctor Rerum Naturalium, Dr. Rer. Nat. mark: Cum Laude) in Solid State Physics ("Festkörper Physik"), @ Max Planck Institute of Colloids and Interfaces and University of Postdam (Germany) Defence date: July 1st, 1999.
www.uni-potsdam.de
" *Morphological Investigations of structural changes in Phospholipid monolayers induced by transfer from water onto solid substrates* "
Supervisor: Prof. Dr. Helmuth Möhwald (Referees: H. Möhwald, G. Brezesinski, R. Rolandi)

(March 1995-October 1995)
Postgraduate Reseacher @ Genoa University (Dr. A. Diaspro, Prof. R. Rolandi) Department of Physics Via Dodecaneso 3, 16146 Genoa (Italy).
www.unige.it
Projecs/Research Field:
" Scanning Force Microscopy and Confocal Microscopy Investigation of Biological Samples "

Collaborations:

1. Max Planck Institute of Colloids and Intefaces, Potsdam (Germany) (Prof. Dr. Helmuth Mohwald, 1946-2018)
2. Leipzig University, Institute of Medical Physics and Biophysics (Prof. Dr. Edwin Donath).
3. Istituto Nazionale Tumori, Milano (Dr. Marco Pierotti, Scientific Director).
4. University of Milan, Immunology and Istituto Nazionale Tumori, Milano (Prof. Andrea Balzari).
5. Università di Torino, CERMS, Laboratorio di Immunolgia dei Tumori (Prof. Franco Novelli).
6. Policlinico di Bari, Medicina Interna, Università di Bari (Prof. Gianluigi Giannelli).
7. Medestea Spa , Valenzana (Bari) (Dr. Luigi Balducci).
8. Università del Salento, Facoltà di Ingegneria dell'Innovazione, Lecce (Prof. Ludovico Valli).
9. Università del Salento, Dipartimento di Biologia e Scienze e Tecnologie Ambientali (DISTEBA), Lecce (Prof. Michele Maffia)
10. University of Porto, Department of Chemical Engineering, Porto (Portugal) (Prof. Manuel Coelho).

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11. Institute for Micromanifacturing, (IfM) Louisiana Tech University, Ruston Louisiana (USA) (Prof. Yuri M. Lvov)
12. Houston Methodist Research Institute, Houston (USA)(Prof. Mauro Ferrari)
13. Prof. A. M. Safer Head of Nanoscopy Science Center - NSC Faculty of Science, Kuwait University, Kuwait City, Kuwait.
14. Leibniz-Institut für Polymerforschung Dresden e.V., Dresden (Germany) (PD Dr. Martin Müller).
15. Fachbereich Physik, Philipps Universität Marburg, Marburg, Germany (Prof. Wolfgang Parak).
16. University of Granada, Departamento de Farmacia y Tecnología Farmacéutica (Prof. César Viseras Iborra).
17. Faculty of Medicine, Cairo University, Department of Medical Biochemistry and Molecular Biology, Cairo (Egypt) (Prof. Hanan Hassan Ahmed)
18. Medical Research Center – Faculty of Medicine- Ain Shams University, Abbasia, Cairo, Egypt (Dr. Abu Zahra Fatma Abd-elkarim)
19. Faculty of Science, Molecular Biology of Kuwait University, Kuwait (Dr. Mohamed Salah Abaza).
20. Istituto de Quimica, Universidad Autonoma de Mexico, Mexico City (Dr. Hector Vladiu)
21. Center for Integrative Biology (CIBIO), Trento (Italy) (Prof. Alberto Inga)
22. Department of Microbiology, Kazan Federal University, Kazan, Republic of Tatarstan, Russian Federeation (RF) (Prof. Rawil F. Fakhrullin).
23. Università del Salento, Dipartimento di Biologia e Scienze e Tecnologie Ambientali (DISTEBA), Lecce (Dr. Elisa Panzarini).
24. Dipartimento di Biologia e Biotecnologie "Charles Darwin", Università La Sapienza di Roma, Roma (Italy) (Prof. Luciana Dini)
25. National Institute of Gastroenterology "S. De Bellis" Research Hospital, Castellana Grotte (BA) (Prof. Gianluigi Giannelli, Scientific Director).

Other Activities:

1. Chairman-Session "Biopolymer –Clay Nanocomposites for Medicinal Uses" at **4th International Conference on Medical Geology Geological and Medical Sciences for a safer Environmen**t, Bari, Italy September 20-25, 2011.
2. Co-Chairman "Omics Meet Translational research " Session-**Proteomics and Metabolomics** Workshop organized by the Marie Curie ITN action "ITLiver", IDIBELL and the Societat Catalana de Biologia (SCB) Barcelona, 25th-26th September 2013.
3. Co-Chairman IT-LIVER Workshop: "3-Dimensional Cell Cultures and Drug Discovery" Session-**Preclinical Drug Application in 3D** Wien 27th- 28th February 2014.
4. Co-Chairman Session- Nanomaterials NM2-"Functional polymeric composites with nanoclays „**AMAM 2015 Applied Mineralogy & Advanced Materials International Conference** Castellaneta Marina, Italy, June 7-12, 2015.
5. Chairman-Session II "New Nanotechnological Tools for Research and Therapy " Workshop "Liver, Methabolic Disorders, Lifestyles" of the **50th Annual Scientific Meeting of the European Society for Clinical Investigation (ESCI)"** Paris, 27-28 April 2016.

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6. Chairman-Session D8 "Clay and Health: from pelotherapy to drug delivery" @ **"Euroclay 2019" International Conference on Clay Science and technology,** Paris, 01st -05th July 2019.
7. Chairman of **International PhD School of Medical Bionanotechnology and Nanomedicine, 1st Edition (InterNanoBioMed@Nanotec)** @ CNR Nanotec. Via Monteroni, Lecce (Italy), 5 October 2023. (Co-Chaired with Prof. Dr. Josè Toca-Herrera, Biophysics Institute Director @ BOKU University, Vienna (Austria).
8. Chairman of **International PhD School of Medical Bionanotechnology and Nanomedicine, 2nd Edition (InterNanoBioMed@Nanotec)** @ CNR Nanotec. Via Monteroni, Lecce (Italy) 3-4 October 2024 (Co-Chaired with Prof. Dr. Josè Toca-Herrera, Biophysics Institute Director @ BOKU University, Vienna (Austria). (*In Lovely Memory of Prof. Giacinto Scoles (1935-2024)*).

Teaching:

Private Lessons of Mathematics and Physics for Undergraduate and Graduate students (Genoa University) in Italian Language.

2001

Seminars (Physics Exercises relevant for Medicine and Biophysics) and *Practika* (Physics Laboratory experiences for Medicine and Biophysics) for Medical and Toothmedical Faculty Students (Leipzig University, Medical Faculty) in German language.

2006

Seminar "*Nanoengineered Colloids and Capsules for Drug Delivery and Diagnostics*" for Biotechnology Students of Salento University, in Italian Language.

2011

Lessons at Biotechnology Faculty, University of Salento "Nanocarriers and NanoBiofarmaceuticals", in Italian Language.

Lessons for Master Students of "Master in NanoBiotechnology", Biotechnology Faculty, University of Bari, in Italian Language.

2012

Lectures and Laboratory experiences at Science Faculty of Kuwait University, 22th -24th April 2012 Seminars & Workshop titled: "Using AFM and LSCM application to the sciences" in English language

1st Lecture: „Scanning Force Microscopy (SFM): principles and applications on living cells"

2nd Lecture:"Confocal Laser Scanning Microscopy (LSCM): principles and applications on biological entities"

3rd Lecture: „The Cell: Structure and Complexity"

Lectures and Practical Experiences at Università del Salento, Engineering Faculty, September 2012-September 2014, in English Language

1. Characterisation Techniques: Atomic Force Microscopy, Electron Microscopy, Micoranalysis, Two Photon Confocal Microscopy
2. Techniques of Biofunctionalisation and syntesis of colloidal micro and nanoparticles
3. Marketing and communication in nanobiotechnology
4. Nanomedicine: ethical issues and nanotoxicology

Lectures and Practical Experiences „ *Nanotecnologie per la Salute con dimostrazione di esperimenti di laboratorio*" in the framework of „ Progetto Formativo PON Scuole @ NNL-Istituto Nanoscience, CNR" Soggetto capofila Liceo Scientifico „ Ilaria Alpi" Rutigliano (BA)

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Modulo 2: Microscopia a Scansione di Sonda e Confocale

Contents:

1) Microscopia a Scansione di Sonda e a Scansione Laser Confocale- (parte teorica)- durata **5 hours**

a) Elementi di Microscopia a Scansione di Forza, Modalità Tapping, Modalità Contact, Nuove Tecniche di microscopia (Peak Force Tapping, Force Volume Imaging, Force Modulation)

b) Elementi di microscopia a scansione Laser, microscopia confocale a singolo fotone, microscopia a due fotoni, Time Lapse Microscopy, FLIM, TIRF

2) Caratterizzazione morfologica e meccanica di biomateriali e cellule; (parte pratica) - durata **5 hours**

3) Caratterizzazione ottica di campioni di interesse biomedico: (parte pratica) -durata **5 hours**

Lectures for PhD Courses in Physics and Nanoscience (September 2014-June 2015)
Module 1: **Nanoscience and Nanomedicine (III CFD, 15 hours)**
Nanomedicine (5 hours)
Drug Delivery Systems (DDS) (5 hours)
Pharmacokinetic and Nanotoxicology (5 hours)
Techniques of Bio-funzionalization and Synthesis of Nano e Micro Colloidal Particles (4 hours)

Module 11: **Characterisation and analysis Techniques (III CFD, 15 Hours)**
Atomic Force Microscopy (5 hours)
Laser Scanning Confocal Microscopy (5 hours)
Fluorescence Microscopy (5 hours)

Lectures for PhD Courses in Physics and Nanoscience (June 2015-December 2015)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (2 hours)
Drug Delivery Systems (DDS) (4 hours)
Pharmacokinetic and Nanotoxicology (2 hours)
Techniques of Bio-funzionalization of Nano e Micro Colloidal Particles (2 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)
Fluorescence Microscopy (2 hours)

2015
Lectures and Laboratory experiences at Science Faculty of Kuwait University, 9th March 2015 Workshop titled: „Nanoscopy and Scientific Applications in Material and Biological Sciences“ in English language. 1st Lecture: „Atomic Force Microscopy“ (1hour) 2nd Lecture: „Atomic Force Microscopy Application„ (1 hour)

Lectures for PhD Students Formation Activating MAAT@ Distretto Tecnologico (DHITECH), University of Salento c\o Campus Ekotekne 30th-31th April 2015 (12 hours: 8 hours frontal lessons, 4 hours preparation)
"Applicazioni delle Nanotecnologie alle Neuroscienze " (4 hours)
"Applicazioni delle Nanotecnologie alla Nanomedicina " (4 hours)

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2016
Lectures for PhD Courses in Physics and Nanoscience (June 2016-July 2016)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Techniques of Bio-funzionalization of Nano e Micro Colloidal Particles (2 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)
Fluorescence Microscopy (2 hours)

2017
Lectures for PhD Courses in Physics and Nanoscience (May 2018-June 2018)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Techniques of Bio-funzionalization of Nano e Micro Colloidal Particles (2 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)
Fluorescence Microscopy (2 hours)

2018
Lectures and Laboratory experiences at Science Faculty of Kuwait University, 05th -11th November 2018. Seminars & Workshop titled: "Nanoworkshop" in English language
1st Lecture: „Colloidal Particles“ (1hour)
2nd Lecture:“Drug Delivery“ (1hour)
Laboratory Experiences: "Preparations and Characterisation of Gold and Chitosan nanoparticles"

2019
Lectures for PhD Courses in Physics and Nanoscience (May 2019-June 2019)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Techniques of Bio-funzionalization of Nano e Micro Colloidal Particles (2 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)
Fluorescence Microscopy (2 hours)

2020
Lectures for PhD Courses in Physics and Nanoscience (April 2020-May 2020) (Due to ***COVID-19 Outbreak***, the lessons were delivered telematically by using ***Teams Microsoft*** Platform)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Colloidal Particles (4 hours)

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Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)

2021
Lectures for PhD Courses in Physics and Nanoscience (June 2021-July 2021) (Due to ***COVID-19 Outbreak***, the lessons were delivered telematically by using ***Teams Microsoft*** Platform)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Colloidal Particles (4 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)

2022
Lectures for PhD Courses in Physics and Nanoscience (May 2022-June 2022) (Still due to ***COVID-19 restrictions***, the lessons were streamed by using ***Teams Microsoft*** Platform)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Colloidal Particles (4 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)

2023
Lectures for PhD Courses in Physics and Nanoscience (June 2023-July 2023) (the lessons were held either in hybrid modality: in presence and streamed by using ***Teams Microsoft*** Platform)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours)
Nanomedicine (4 hours)
Drug Delivery Systems (DDS) (4 hours)
Colloidal Particles (4 hours)
Atomic Force Microscopy (4 hours)
Laser Scanning Confocal Microscopy (4 hours)

2025
Lectures for PhD Courses in Physics and Nanoscience (June 2025-July 2025)
Nanomedicine and Characterisation and analysis Techniques (IV CFD, 20 Hours, each lesson 2 hours)
Lesson 1: (Course Introduction and Overview)
Lesson 2: (Nanomedicine)
Lesson 3: (Drug Delivery)
Lesson 4: (Hollow Polyelectrolye Capsules)
Lesson 5: (Atomic Force Microscopy 1)
Lesson 6: (Atomic Force Microscopy 2)
Lesson 7: (Confocal Laser Scanning Microscopy 1)
Lesson 8: (Confocal Laser Scanning Microscopy 2)

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Lesson 9: (Lab Experience: Confocal Laser Scanning Microscopy (CLSM))
Lesson 10: (Lab Experience :Atomic Force Microscopy (AFM))

- **National Scientific Qualification (Abilitazione Scientifica Nazionale) to function as a Associate Professor in the Italian Universities for the Academic Sector 02/B3: Applied Physics. (27/12/2013 - 11/12/2024)**

Judgment: L'analisi collegiale del curriculum vitae, della lista delle pubblicazioni e dei titoli, del candidato Leporatti Stefano, evidenzia una eccellente attività di ricerca, afferente al settore concorsuale 02/B3. Il percorso scientifico del candidato si è caratterizzato prevalentemente nello studio di nanostrutture per il rilascio controllato di farmaci. Buona la capacità di attrarre finanziamenti competitivi. Ottima la capacità di promuovere attività di trasferimento tecnologico. Buona la capacità di coordinare gruppi di ricerca. L'impatto globale della produzione scientifica è buono, considerando anche le 3 medie degli indicatori di cui all'articolo 6 e all' allegato A (bibliometrici) del D.M. 76/2012.
L'esame dei lavori selezionati indica che sono congrui con la declaratoria del settore concorsuale 02/B3. La produzione in numero, distribuzione temporale e collocazione editoriale è sufficiente. Le pubblicazioni hanno un sufficiente livello innovativo e l'apporto individuale del candidato è significativo.
L'analisi dei titoli, coerenti con il settore concorsuale 02/B3, ha evidenziato: la partecipazione scientifica a progetti di ricerca internazionali e nazionali, l'attribuzione di incarichi di insegnamento o di ricerca internazionali, il conseguimento di premi e riconoscimenti per l'attività scientifica, la partecipazione ad accademie aventi prestigio nel settore, risultati ottenuti nel trasferimento tecnologico, la partecipazione ad attività di formazione scientifica.
La Commissione, utilizzando i criteri adottati per il settore concorsuale 02/B3 e pubblicati sul sito del Ministero, valuta positivamente il Candidato Leporatti Stefano all'attribuzione dell'Abilitazione Scientifica alle funzioni di Professore di Seconda Fascia, con 5/5 componenti favorevoli all'abilitazione.

- **National Scientific Qualification (Abilitazione Scientifica Nazionale) to function as a Full professor in the Italian Universities for the Academic Sector 02/B3: Applied Physics (27/12/2013 – 27/12/2024)**

Judgment: L'analisi del curriculum vitae, della lista delle pubblicazioni e dei titoli, del candidato Leporatti Stefano, evidenzia una più che buona attività scientifica, afferente al settore concorsuale 02/B3. Il percorso scientifico del candidato si è caratterizzato prevalentemente nello studio di nanostrutture per il rilascio controllato di farmaci. Buone le attività di direzione o coordinamento di gruppi di ricerca. Buone le iniziative per la promozione della formazione scientifica. Ottime le attività gestionali di progetti scientifici.
L'impatto globale della produzione scientifica è buono, considerando anche le 3 medie degli indicatori di cui all'articolo 6 e all' allegato A (bibliometrici) del D.M. 76/2012.
L'esame dei lavori selezionati indica che sono congrui con la declaratoria del settore concorsuale 02/B3. La produzione in numero, distribuzione temporale e collocazione editoriale è buona e presenta un buon impatto nel settore indagato. Le pubblicazioni hanno un buon livello innovativo e l'apporto individuale del candidato è significativo.
L'analisi dei titoli, completamente coerenti con il settore concorsuale 02/B3, ha evidenziato: la direzione scientifica di progetti di ricerca internazionali e nazionali, l'attribuzione di incarichi di insegnamento o di ricerca internazionali, la direzione di comitati editoriali di riviste, il

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conseguimento di premi e riconoscimenti per l'attività scientifica, risultati ottenuti nel trasferimento tecnologico.
La Commissione, utilizzando i criteri adottati per il settore concorsuale 02/B3 e pubblicati sul sito del Ministero, valuta positivamente il Candidato Leporatti Stefano all'attribuzione dell'Abilitazione Scientifica alle funzioni di Professore di Prima Fascia, con 5/5 componenti favorevoli all'abilitazione.

- **National Scientific Qualification (Abilitazione Scientifica Nazionale) to function as a Associate Professor in the Italian Universities for the Academic Sector 02/B1: Experimental Physics of Matter (11/12/2013 – 11/12/2024)**

Judgment: Dopo approfondita comparazione delle valutazioni individuali la Commissione formula il proprio giudizio collegiale su Leporatti Stefano. Le pubblicazioni scientifiche presentate risultano coerenti con il settore concorsuale. Presenta 10 lavori di cui 5 pubblicati nei cinque anni solari e consecutivi precedenti la data di presentazione della domanda. Il contributo individuale del candidato nelle pubblicazioni in collaborazione risulta paritetico nell'ambito delle attività di ricerca e sviluppo svolte, con particolare riferimento ai temi: Nanocapsule e nanoparticelle per il trasferimento di farmaci in strutture cellulari. Il curriculum del candidato mostra una attività continuativa. I lavori presentati e allegati sono stati valutati alla luce dei criteri deliberati dalla commissione. La qualità complessiva, valutata all'interno del panorama internazionale della ricerca sulla base dell'originalità, del rigore metodologico e del carattere innovativo e della collocazione editoriale risulta buono (B). Per la produzione scientifica, il valore di VN determinato secondo quanto previsto nell' Allegato B del Verbale 1 (Ponderazione dei Criteri e Parametri per l'abilitazione alle funzioni di professore di Seconda Fascia), sulla base dei valori degli indicatori bibliometrici forniti dal MIUR tramite l'apposita piattaforma informatica nella data della riunione collegiale finale, è: VN = 27,33. Gli altri titoli presentati sono di livello buono (B). La valutazione collegiale della Commissione sull'attività complessiva del Candidato coerente con il settore concorsuale e': buono (B). Sulla base dei criteri stabiliti e dopo ampia discussione, la Commissione, all'unanimità, formula una valutazione Positiva in merito all'abilitazione del candidato a Professore Associato per l'area disciplinare 02/B1.

- **National Scientific Qualification (Abilitazione Scientifica Nazionale) to function as a Full Professor in the Italian Universities for the Academic Sector 02/B1: Experimental Physics of Matter (11/12/2013 – 11/12/2024)**

Judgment: Dopo approfondita comparazione delle valutazioni individuali la Commissione formula il proprio giudizio collegiale su Leporatti Stefano. Le pubblicazioni scientifiche presentate risultano coerenti con il settore concorsuale. Presenta 20 lavori di cui 8 pubblicati nei cinque anni solari e consecutivi precedenti la data di presentazione della domanda. Il contributo individuale del candidato nelle pubblicazioni in collaborazione risulta paritetico nell'ambito delle attività di ricerca e sviluppo svolte, con particolare riferimento ai temi: Nanocapsule e nanoparticelle per drug delivery, morfostruttura di cellule. Il curriculum del candidato mostra una attività continuativa. I lavori presentati e allegati sono stati valutati alla luce dei criteri deliberati dalla commissione. La qualità complessiva, valutata all'interno del panorama internazionale della ricerca sulla base dell'originalità, del rigore metodologico e del carattere innovativo e della collocazione editoriale risulta buona (B). Per la produzione scientifica, il valore di VN determinato secondo quanto previsto nell' Allegato A del Verbale 1 (Ponderazione dei Criteri e Parametri per l'abilitazione alle funzioni di professore di Prima Fascia), sulla base dei valori degli indicatori bibliometrici forniti dal MIUR tramite l'apposita piattaforma informatica nella data della riunione collegiale finale, è: VN = 26,50. Gli altri titoli

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presentati sono di livello eccellente (A). La valutazione collegiale della Commissione sull'attività complessiva del Candidato coerente con il settore concorsuale e': buona (B). Sulla base dei criteri stabiliti e dopo ampia discussione, la Commissione, all'unanimità, formula una valutazione Positiva in merito all'abilitazione del candidato a Professore Ordinario per l'area disciplinare 02/B1.

Professorship Eligibility

1) ***UNIVERSITA' DI PISA,*** Dipartimento di Fisica **(Codice selezione PA2014/18**) settore concorsuale **02/B3 "Fisica Applicata**" Procedure selettive per la copertura di n. 46 posti di **Professore Universitario di ruolo - seconda fascia** –da coprire mediante chiamata ai sensi dell'art. 18, comma 1, Legge 240/2010". **n. posti 2, Number of candidates: 24, Final Judgment** "La commissione unanime, avendo accertato attraverso le pubblicazioni la conoscenza della lingua inglese, giudica Stefano LEPORATTI un candidato **molto buono e idoneo** a ricoprire il posto di Professore di II fascia del **SC 02B3**". **Final Ranking: 5th Position.**

2) ***UNIVERSITA' DI PISA***, Dipartimento di Fisica "Procedura per la copertura di **n. 1 posto** di **professore associato** per il settore concorsuale **02/B3 "Fisica Applicata"** – settore scientifico disciplinare **FIS/07** "**Fisica applicata (a beni culturali, ambientali, biologia e medicina)"** (**Codice selezione PA2015/3**) presso il dipartimento di Fisica dell'Università di Pisa, di cui al bando emanato con decreto rettorale n. 5891 del 11 febbraio 2015. **Number of Candidates: 14, Final Judgment:"** La commissione unanime, avendo accertato attraverso le pubblicazioni la conoscenza della lingua inglese, valuta Stefano LEPORATTI un candidato **molto buono e idoneo** a ricoprire il posto di Professore di II fascia del **SC 02B3**". **Final Ranking: 2nd Position ex-equo (with 7 candidates).**

3) ***Università dell'Aquila***, Dipartimento di Scienze Fisiche e Chimiche, **02.07.2014 (verbale n. 13)** Prot. 36788, Selezione di un **(n.1) professore associato** del SSD: **FIS/01** Fisica Sperimentale, Settore Concorsuale: **02/B1** - Fisica Sperimentale della Materia, **Number of Candidates: 6, Final Judgment:** "La commissione sulla base dell'esame dei titoli, delle pubblicazioni presentate dell'attività didattica del candidato giudica la produzione scientifica **ottima**,i titoli scientifici **più che buoni,** l'attività didattica **discreta**. La commisione, ritenuto il candidato in possesso di adeguate competenze linguistiche, all'unanimità valuta l'attività del candidato Leporatti Stefano in complesso **più che buona**." **Final Ranking: 4th Position.**

4) ***Università della Calabria,*** PROCEDURA SELETTIVA PER LA COPERTURA DI UN POSTO **DI PROFESSORE UNIVERSITARIO DI RUOLO, SECONDA FASCIA**, PER IL SETTORE CONCORSUALE 02/B3, SETTORE SCIENTIFICO-DISCIPLINARE FIS/07 PRESSO IL DIPARTIMENTO DI FISICA INDETTA CON D.R. N. 1113 DEL 13 GIUGNO 2014. **Number of Candidates: 15, Final Judgment** "Il giudizio complessivo sul curriculum scientifico e didattico e' **MOLTO BUONO**. **Final Raking: 3rd Position Ex-equo.**

5) ***Università degli Studi di Cagliari***, "D.R. n. 135 del 6 novembre 2014, Procedure selettive libere di chiamata di complessivi n. 6 **professori associati** ai sensi dell'art. 18, comma 1, della legge 240/2010, Codice procedua: asss_1114_02/B1, **SC 02/B1**, **SSD FIS/01**, Dipartimento di Fisica, **no: posti 1**, **Number of Candidates**: **7**, **Final Judgment:** "il giudizio collegiale della commissione i) per l'attività scientifica del candidato è **ottimo** ; ii) per i titoli scientifici e

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didattici presentati: **buono**; iii) per la congruità del Candidato con quanto indicato dal Dipartimento richiedente per l'impegno didattico e scientifico da svolgere è **limitato**. la valutazione della commissione sull'attività complessiva del candidato, tenuto conto della coerenza con il settore concorsuale e le indicazioni del bando di professore di II fascia in oggetto è **buono**". **Final Ranking: 3rd Position Ex-equo.**

6) ***UNIVERSITÀ DEGLI STUDI DI GENOVA,*****" Professore di seconda fascia**- ssd FIS/01 presso il DIFI D.R. n. 727 del 13.6.2014 - Procedura selettiva volta alla copertura di **n. I posto** di professore di seconda fascia, mediante chiamata, ai sensi dell'art. 18, comma 1, della legge 30.12.2010, n. 240, per il settore scientifico-disciplinare
FIS/01 Fisica sperimentale presso il Dipartimento di Fisica (DIFI)." **Number of Candidates: 6; Final Judgment**: "Sulla base dell'attività scientifica svolta dal candidato, tenuto altrsì conto dell'aderenza alla esigenze di ricerca dell'Ateneo, espresse dalle informazioni circa l'impegno scientifico e didattico contenute nel bando, la valutazione complessiva della commissione risulta: **buona" Final Ranking: 3rd Position Ex-equo.**

7) ***UNIVERSITÀ DEGLI STUDI DI GENOVA***, Decreto Rettorale n. 1710, " **Professore di seconda fascia - ssd FIS/07** presso il DIFI D.R. n. 1710 del 18.12.2014 - Procedura selettiva volta alla copertura di n**. I posto** di professore di seconda fascia, mediante chiamata, ai sensi dell'art. 18, comma 1, della legge 30.12.2010, n. 240, per il settore scientifico-disciplinare **FIS/07** Fisica sperimentale, settore concorsuale 02/B3 Fisica applicata, presso il Dipartimento di Fisica (DIFI)" **Number of Candidates: 9, Final Judgment:** 1) congruenza: **buona** 2) Qualità della produzione scientifica: **ottima** 3) Attività scientifica: ottima 4) Attività didattica e accademica: **buona " Final Ranking: 2nd Position Ex-Equo**
8) ***Università degli Studi di Torino***, "Procedura selettiva per **n. I posto** di Professore Universitario di ruolo - seconda fascia - da coprire mediante chiamata ai sensi dell'art. 18, comma 1, Legge 240/2010 - Dipartimento di Fisica - **settore concorsuale 02/B3** (Fisica applicata) - **ssd FIS/07** (Fisica applicata - a beni culturali, ambientali, biologia e medicina) - avviso G.U.n. 100 del 23/12/2014" **Number of Candidates: 10**; **Evaluation** 1) Attivtà di ricerca e pubblicazioni scientifiche: **45\50**; Attività di didattica\didattica integrativa e di servizio agli studenti: **24/50**; Final Evaluation: **69\100; Final Ranking: 4th Position.**
9) ***Università degli Studi di Pavia***, D.R. 219-2014, Dipartimento di Fisica, **Posti n.1**, **SC 02\B1**-Fisica Sperimentale della Materia, **SSD FIS/01** Fisica Sperimentale e **FIS/03** Fisica della Materia, **Number of Candidates: 7**; **Final Judgment**: "L'attività didattica è valutata all'unanimità complessivamente **sufficiente**. La commissione unanime giudica **molto buona** l'attività di ricerca scientifica del candidato. Il giudizio unanime sulle pubblicazioni scientifiche è **buono" Final Ranking: 5th position.**
10) ***Università Politecnica delle Marche*** (D.R. n. 892 del 16/12/2014) Dipartimento di Scienze e Ingegneria della Materia, dell'Ambiente ed Urbanistica, **n. 1** posto di **Professore Associato**, settore concorsuale **02/B1**- Fisica Sperimentale della Materia, settore scientifico–disciplinare **FIS/01** – Fisica sperimentale. **Number of Candidates: 4, Final Judgment:** " Il candidato ha una esperienza didattica limitata. L'attività scientifica è di livello moilto buono svolta principalmente nell'ambito di nanoscienze e nanotecnologie applicate alla medicina con un significativo contributo allo sviluppo di indagini sperimentali quali la Microscopia a Scansione di Forza, ma poco pertinente con quanto indicato nel bando della procedura di chiamata" **Final Ranking: 3rd Position Ex-equo.**

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11) ***Università di Padova***, Procedura selettiva per la chiamata di **n. 1 posto** di **Professore di prima fascia** presso il Dipartimento di Ingegneria dell'Informazione-DEI, per il settore concorsuale **02/B1-Fisica sperimentale della materia** (settore scientifico disciplinare **FIS/03** Fisica della materia) ai sensi dell'art. 18, comma 1, Legge 30 dicembre 2010, n. 240. Avviso pubblicato nella G.U., 4^ serie speciale, n. 94 del 02/12/2014) **Number of Candidates: 2, Final Judgment**: "Il giudizio complessivo della Commissione sulle **pubblicazioni scientifiche** presentate, sul **curriculum** e sull'**attività didattica** del candidato è **molto buono**. Nel complesso la commissione esprime pieno apprezzamento per la qualificazione scientifica del candidato. La competenza linguistica del candidato risulta **adeguata**. **Giudizio Complessivo**:" Sulla base delle risultanze della discussione collegiale, avvenuta attraverso l'analisi dei giudizi su pubblicazioni scientifiche, curriculum, attività didattica, qualificazione scientifica e competenze linguistiche, la Commissione esprime una valutazione complessiva **molto buona** ai fini della copertura del posto a concorso". **Final Ranking: 2nd Position.**

12) **Università di Brescia**, Procedura selettiva per la chiamata di **n. 1 posto** di **Professore di prima fascia** presso il Dipartimento di Ingegneria dell'Informazione, per il settore concorsuale **02/B1-Fisica sperimentale della materia** (settore scientifico disciplinare **FIS/01** Fisica Sperimentale) ai sensi dell'art. 18, comma 1, Legge 30 dicembre 2010, n. 240. **Number of Candidates: 3, Final Judgment:** "Dopo ampia e approfondita discussione, ciascuno dei Commisari aderisce alle conclusioni collegiali riportate di seguito: Stefano Leporatti viene valutato dalla commissione un ricercatore buono di buona maturità con un curriculum congruente con le tematiche del settore sceintifico disciplinare FIS01 Fisica Sperimentale. L'attività didattica è modesta sebbene in linea con le tematiche del settore sceintifico disciplinare FIS01 Fisica Sperimentale. I titoli presentati sono sufficienti. La responsabilità scientifica come coordinatore di progetti internazionali bilaterali (Italia-USA e Italia-Portogallo) dimostra capacità di coordinamento. Il candidato Stefano Leporatti presenta, ai fini della valutazione solamente 20 pubblicazioni scientifiche rispetto alle 30 richieste dal bando, che rappresentano significativi contributi nell'ambito delle tematiche proprie del settore scientifico disciplinare, pubblicate su prestigiose riviste del settore. Le pubblicazioni presentate al fine della valutazione in questa procedura testimoniano una attività di ricerca significativa sia in microscopia a forza atomica che in metodi per l'assemblaggio di micro- e nano-capsule di polielettrolite. La valutazione della commissione relativamente ai titoli prensentati è di punti 25 su 40. La valutazione della commissione relativamente alle pubblicazioni scientifiche presentate è di punti 30 su 60, tenuto conto del minore numero di pubblicazioni presentate rispetto alla richiesta del bando. **Valutazione Finale: Discreto, Final ranking 3rd Position.**

13) **Università di Pavia**, Procedura di selezione per la chiamata di **n.1 Professore di Prima fascia,** ai sensi dell'art. 18, comma 1, della legge 240/2010, per il **settore concorsuale 02/B1-Fisica Sperimentale della Materia, settore scientifico disciplinare FIS/03-Fisica della Materia** presso il Dipartimento di Fisica , indetta con D.R. Prot. N. 15151 del 7 Aprile 2016 il cui avviso è stato pubblicato sulla G.U.-IV Serie Speciale -N. 30 del 15 aprile 2016. **Number of Candidates: 2.**

Giudizio Collegiale del candidato Stefano Leporatti

Attività didattica: Il candidato Stefano Leporatti ha svolto un ciclo di esercizi ed esercitazioni di laboratorio per studenti di medicina e biofisica nel 2001, un seminario per studenti di biotecnologie nel 2006, seminari nel 2011, 2012, 2016 e cinque cicli di lezioni per laurea e dottorato dal 2012 al 2015. Non riporta dati di valutazione degli studenti. E' stato supervisore

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di quattro tesi di dottorato e di dodici tesi di laurea e laurea specialistica. Mentre l'attività didattica universitaria risulta sporadica è ottima l'attività di supervisione nelle fasi finali degli studi e nel dottorato. Di conseguenza i**l giudizio complessivo sull'attivtà didattica del candidato è buona**.
Attività scientifica: il Candidato ha svolto numerosi periodi di ricerca all'estero. Al momento coordina con la qualifica di Primo Ricercatore CNR un gruppo di ricerca composto da due studenti di dottorato, due laureandi ed un post-doc, su ricerche di biomeccanica e nano-carriers. E' stato coordinatore di due progetti bilaterali, ha partecipato a numerosi progetti nazionali, ed ha ricoperto il ruolo di responsabile locale in un progetto FP7 e in un progetto industriale. Stefano Leporatti ha svolto oltre dieci relazioni su invito a conferenze e workshop internazionali, e numerose relazioni a conferenze e riunioni nazionali. Presenta 76 pubblicazioni su riviste con peer review, che presentano anche elementi relativi alla preparazione e caratterizzazione di nanomateriali, rilevanti per il settore disciplinare FIS/03. I contributi risultano essere originali in un campo interdisciplinare al confine con la medicina, al momento molto attivo. Il numero totale di citazioni è maggiore di 2700 e porta ad un indice di Hirsch di 26. **Si giudica pertanto il curriculum scientifico del candidato ottimo anche su scala internazionale**
Giudizio sulle quindici pubblicazioni presentate dal Candidato: Il Candidato presenta 15 pubblicazioni che coprono il periodo 2000-2014, totalizzando 1172 citazioni (WoS) con un numero medio di citazioni per prodotto pari a 78, un impact factor complessivo di 121 ed un h-index di 13, Egli è il primo autore di due di queste pubblicazioni, tre volte secondo autore e cinque volte ultimo autore, a dimostrazione di un contributo di grande rilevanza ai lavori presentati. I lavori presentati risultano di grande interesse in un campo che premia sia il successo nella tecnologia dei materiali allo stato solido sia la sua applicazione in campo biomedico, ma non indicano competenze specifiche sulle risonanze magnetiche e di spin. **Il giudizio risultante sulla scorta degli indici bibliometrici e delle precedenti considerazioni è di eccellenza scientifica**
Giudizio sulla presentazione di Stefano Leporatti: Il candidato illustra la propria attività di ricerca recente sulla caratterizzazione e l'impiego di materiali nano-strutturati per applicazioni di veicolazione del farmaco. Descrive in successione esperimenti di successo che riguardano capsule globulari di poli-elettroliti, nanotubi basati su ossido di alluminio e micelle. l'attenzione è focalizzata sul successo della veicolazione e del rilascio del Farmaco in vitro. Il candidato risponde alle domande e alle richieste di chiarimento dei membri della commissione.
A giudizio unanime della commissione la presentazione del candidato Stefano Leporatti risulta *ottima*.
Giudizio Complessivo:
L'attività didattica del candidato Stefano Leporatti è stata unanimamente giudicata ***buona***
Il Curriculum scientifico del candidato Stefano Leporatti è ritenuto unanimamente ***eccellente***
Le quindici pubblicazioni del candidato Stefano Leporatti sono state unanimamente giudicate scientificamente ***eccellenti***
A giudizio unanime della commissione la presentazione del candidato Stefano Leporatti risulta ***ottima***
Giudizio Finale: *Ottimo,* Final ranking 2nd Position

14) **Università di Napoli,** Procedura comparativa per la copertura di n.1 posto **Professore Universitario di ruolo di Prima fascia, per il settore concorsuale 02/B1-Fisica Sperimentale della Materia, settore scientifico disciplinare FIS/01_FIS/03-Fisica**

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della Materia per le esigenze del Dipartimento di Fisica "Ettore Pancini", ai sensi dell'art. 18, comma 4, della legge 240/2010, (codice di procedura: 1_PO_2016_18C4_2). **Number of Candidates: 3.**

Giudizio Prova Seminariale (06/10/2016):

Il candidato descrive la propria attività con capacità di sintesi, evidenziando con chiarezza il prorio contributo originale alle varie attività presentate. Le attività descritte sono relative alla applicazione di tecniche fisiche per la caretterizzazzione di strutture in scala nanometrica di interesse nel campo delle biotecnologie mediche. Il candidato dimostra conoscenza e padronanza della ricerca in cui è coinvolto e capacità di inquadrare la propria attività nel contesto delle sue collaborazioni nazionali e internazionali. Apprezzabile la chiarezza espositiva e la capacità di rispondere in modo esauriente alle domande. Nel complesso il giudizio sulla presentazione seminariale delle attività del candidato è **più che buono**.

Argomento Prova didattica : "Scattering dei raggi X: aspetti teorici e sperimentali"

Giudizio Prova Didattica (07/10/2016):

Il candidato ha tenuto una lezione sullo scattering a raggi X, presentandone le caratteristiche fondamentali e descrivendo alcune tecniche sperimentali (SAXS, GIXD) per un corso di Laurea Triennale in Fisica con sufficiente chiarezza espositiva e organicità argomentativa, mostrando adeguata conoscenza della materia. L'efficacia didattica è limitata. La completezza e il rigore logico sono sufficienti. Complessivamente il giudizio è **sufficiente**.

Giudizio Finale: *Più che buono,* Final Ranking: 3rd Position

15) **Università di Pisa**, Procedura per la copertura di un posto di **professore associato per il settore concorsuale 02/B1 "Fisica Sperimentale della Materia", settore scientifico disciplinare FIS/03 "Fisica della Materia"** presso il Dipartimento di Fisica (Codice selezione PA2016/42): **Number of Candidates: 9**

Giudizio collegiale:

Il candidato presenta per la valutazione 12 pubblicazioni, tutte in inglese, su riviste scientifiche molto rilevanti nel suo settore di ricerca. Questi lavori sono congrui con il bando. Il contributo personale del candidato è evidenziato dal numero di lavori di cui è primo autore (2) e ultimo autore (5). Tenuto conto anche del numero, della collocazione editoriale e dell'impatto delle pubblicazioni complessive come presentate nel curriculum, la commissione valuta il profilo scientifico del candidato di livello **ottimo**. Dimostra capacità gestionali e di coordinamento, nonché visibilità scientifica **molte buone**. L'attività di ricerca, prevalentemente di nano- e bio-fisica con applicazioni di nanomedicina è coerente con il profilo scientifico richiesto. Presenta un'attività didattica frontale principalmente di supporto, ma buona di supervisione di tesi. La commissione unanime, avendo accertato attraverso le pubblicazioni presentate la conoscenza della lingua inglese, valuta Stefano LEPORATTI un **candidato molto buono e qualificato** a ricoprire il posto di Professore di II fascia del SC 02/B1.

Final Ranking: 3rd Position Ex-Equo

16) **Università di Torino**, Procedura Selettiva a **n.1** Posto di **Professore di Ruolo di seconda Fascia** (art 18, comma 4, Legge 240/2010) presso il Dipartimento di Biotecnologie Molecolari e Scienze della Salute dell'Università degli Studi di Torino settore concorsuale 02/D1-S.S.D. FIS/07 bandito con D.R: N. 2556 del 22/7/2016 con avviso pubblicato nella Gazzetta Ufficiale N. 62 del 5 Agosto 2016-IV Serie Speciale Concorsi ed Esami).

Number of Candidates: 6

Candidato : **Stefano Leporatti**

Prof. Stefano Leporatti
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Valutazione attività di ricerca e pubblicazioni scientifiche **41.14**
Valutazione attività didattica/didattica integrativa e di servizio agli studenti: **0.5**
Valutazione complessiva: **41.64**
Final Ranking: 4th

17) **Università di Padova**, Procedura Selettiva 2017PO181 per la chiamata di **n.1** posto di **Professore di Prima Fascia** presso il Dipartimento di Fisica e Astronomia "Galileo Galilei"-DFA, per il settore conscorsulae 02/B1-Fisica Sperimentale della materia (profilo: settore scientifico disciplinare FIS/03-Fisica della Materia) ai sensi dell'art. 18, comma 1, Legge 30 dicembre 2010, n.240.
Number of Candidates: 5
Candidato : **Stefano Leporatti**
Motivato Giudizio:
- Pubblicazioni Scientifiche e Attività di Ricerca
Il candidato Stefano Leporatti documenta una estesa attività di ricerca sperimentale incentrata sullo studio di biomateriali e sistemi di drug delivery di grande attualità. per queste ricerche il candidato ha utilizzato tecniche avanzate di microscopia a forza atomica e di microscopia confocale, unendo le possibilità di caratterizzazione e studio che queste metodiche gli consentono ad attività di preparativa di bio-sistemi avanzati (assemblaggio layer-by-layer di micro- e nano-capsule ingegnerizzate per specifiche funzioni di drug-delivery). Dopo aver preso in esame ciascuna pubblicazione singolarmente, la commissione valuta il **complesso delle pubblicazioni OTTIMO**.
La consistenza della sua **produzione scientifica è elevata**. I lavori sottoposti per la valutazione sono pubblicati su riviste di **buon fattore di impatto**. Il **livello di citazione** dei lavori è **alto**, a dimostrazione dell'interesse che queste ricerche suscitano nella comunità scientifica di riferimento. Gli argomenti delle ricerche sono solo parzialmente congruenti con il settore concorsuale , essendo in molti casi più pertinenti alla fisica applicata ed alla biofisica sperimentale (SC 02/D1). La commissione valuta l'**attività di ricerca** del candidato di livello **MOLTO BUONO**
- Curriculum e attività istituzionali, gestionali, organizzative e di servizio
Le ricerche svolte dal candidato si sono svolte nel contesto di un'ampia rete di collaborazioni e di progetti di ricerca coordinati, nei quali egli ha svolto quasi sempre compiti di responsabilità di gruppi di ricerca. Non risultano attività di coordinamento didattico. Complessivamente la commissione valuta le **attività di coordinamento** del candidato **BUONE**
- Attività didattica
Stefano Leporatti ha tenuto numerosi insegnamenti monografici nell'ambito di corsi di dottorato di ricerca e cicli di lezioni nell'ambito di insegnamenti universitari. Il candidato non ha svolto attività didattica istituzionale a livello universitario in forma continuativa ed in particolare non risulta essere stato reponsabile di insegnamenti.
La commissione giudica quindi l'attività didattica del candidato **BUONA**
- Accertamento della qualificazione scientifica e delle competenze linguistiche
Il candidato ha partecipato a congressi internazionali anche come relatore su invito e ha tenuto cicli di lezioni anche all'estero. La sua qualificazione scientifica e la sua conoscenza della lingua inglese sono chiaramente accertate.
Punteggi
-Pubblicazioni Scientifiche: 27.7/100
- Attività di Ricerca: 19/100

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- Curriculum e attività istituzionali, gestionali, organizzative e di servizio: 7/100
- Attività didattica: 9/100

Giudizio Complesivo: MOLTO BUONO (62.7/100)
Final Ranking: 4th ex-equo

18) **Università di Padova**, Procedura Selettiva 2017PO182 per la chiamata di **n.1** posto di **Professore di Prima Fascia** presso il Dipartimento di Fisica e Astronomia "Galileo Galilei"-DFA, per il settore conscorsuale 02/D1-Fisica applicata, didattica e storia della fisica (profilo: settore scientifico disciplinare FIS/07-Fisica applicata (a beni culturali, ambientali, biologia e medicina) ai sensi dell'art. 18, comma 1, Legge 30 dicembre 2010, n.240.
Number of Candidates: 3
Candidato : **Stefano Leporatti**
Punteggi:
- pubblicazioni scientifiche e attività di ricerca: 50/100
- Curriculum e attività istituzionali, gestionali, organizzative e di servizio: 7/100

Attività didattica: 8\100
Giudizio Complessivo: punti 68/100
Final ranking: 2nd

19) **Politecnico di Torino,** Procedura di selezione per professore universitario di ruolo di I fascia-L240/10, Decreto Rettorale 680 del 13/12/2016, settore concorsuale: 02/B1 Fisica Sperimentale della Materia, Settore Scientifico Disciplinare: FIS/03 Fisica della Materia (Codice interno: 19/16/P/O)
Number of Candidates: 6
Candidato : **Stefano Leporatti**
Punteggi:
- Attività Scientifica: 33/40)
- Coordinamento di gruppi e progetti di ricerca\trasferimento tecnologico: 17 /30

-Reputazione nazionale e internazionale e attività di servizio per la comunità scientifica: 9/10
-Attività didattica: 5/10
-Servizi e incarichi istituzionali presso Atenei italiani ed esteri e/o enti pubblici e provati con finalità scientifiche e/o di trasferimento tecnologico: 5/10
Giudizio Collegiale complessivo Sintetico: **Buono**
P**unteggio Preliminare Complessivo**: **69**
Giudizio complessivo del seminario pubblico: **Molto buono**.
Punteggio Complessivo: **70.65/100**
Final ranking: 6th place

20) **Scuola Normale Superiore,** Procedura di selezione per la copertura di **un posto** di **professore universitario di seconda fascia** a sensi del art.18, comma 1, della Legge 30 dicembre 2010, n.240 presso la classe di Scienze matematiche e naturali, per il settore concorsuale 02/D1- Fisica applicata, didattica e storia della fisica (profilo: settore scientifico disciplinare FIS/07-Fisica applicata (a beni culturali, ambientali, biologia e medicina). (Protoc: n. 005494 del 22/03/2017-Albo Ufficiale di ateneo-106/2017)
Number of candidates: **4**
Giudizi:
-Attività di ricerca scientifica: **Buona**

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-Valutazione delle pubblicazioni scientfiche: La commmsione ha accertato che il candidato nel quinquiennio 2012-2016 ha una produttività scientifica pari a n.2,2 prodotti scientifici l'anno e quindi **soddisfa il requisito minimo** per essere ritenuto **meritevole** ai fini della chiamata
- La commissione ritiene le pubblicazioni scienitfiche presentate dal candidato di livello e edi qualità **ottimo.**
- Valutazione dell'attività didattica: La commissione ritiene che l'attività didattica sia: **discreta**
Valutazione complessiva relativa a tutte le attività del candidato Stefano Leporatti**:**
il candidato **possiede la qualificazione richiesta** per ricoprire il ruolo messo a bando
Giudizio Finale sul profilo scientifico e didattico del candidato Stefano Leporatti**:**
BUONO (punteggio pari a 9/10)
Final Ranking: 3rd place

CNR Researcher (III Livello) Permanent Position Eligibility

BANDO N. 366.6 DSFTM RIC
CONCORSO PER TITOLI ED ESAMI AI SENSI DELL'ART. 4, COMMA 6, DELLA LEGGE 30 OTTOBRE 2013 N. 125 RISERVATO AL PERSONALE DEL CNR CON CONTRATTO DI LAVORO A TEMPO DETERMINATO CON PROFILO DI RICERCATORE E/O TECNOLOGO PER L'ASSUNZIONE CON CONTRATTO DI LAVORO A TEMPO INDETERMINATO DI N. 1 UNITÀ DI PERSONALE CON PROFILO DI RICERCATORE III LIVELLO PROFESSIONALE, DA ASSEGNARE AL DIPARTIMENTO SCIENZE FISICHE E TECNOLOGIE DELLA MATERIA OVVERO AD UN ISTITUTO AD ESSO AFFERENTE
Number of Candidates: 6
Valutazione complessiva: 82.11/100
Final Ranking: 4th

Bando N. 367.14 DSCTM IC RIC
CONCORSO PUBBLICO PER TITOLI ED ESAMI PER L'ASSUNZIONE CON CONTRATTO DI LAVORO A TEMPO PIENO E INDETERMINATO DI UNA UNITÀ DI PERSONALE PROFILO RICERCATORE, III LIVELLO PROFESSIONALE PRESSO L'ISTITUTO DI CRISTALLOGRAFIA DI BARI - AFFERENTE AL DIPARTIMENTO DI SCIENZE CHIMICHE E TECNOLOGIE DEI MATERIALI DEL CONSIGLIO NAZIONALE DELLE RICERCHE
Number of Candidates: 14
Valutazione complessiva: 86.7/100
Final Ranking: 3rd

BANDO N. 367.75 DSFTM NANOTEC RIC
CONCORSO PUBBLICO PER TITOLI ED ESAMI PER L'ASSUNZIONE CON CONTRATTO DI LAVORO A TEMPO PIENO E INDETERMINATO DI UNA UNITÀ DI PERSONALE PROFILO RICERCATORE, III LIVELLO PROFESSIONALE PRESSO L'ISTITUTO DI NANOTECNOLOGIA (CNR NANOTEC) SEDE DI LECCE AFFERENTE AL DIPARTIMENTO DI SCIENZE FISICHE E TECNOLOGIE DELLA MATERIA DEL CONSIGLIO NAZIONALE DELLE RICERCHE
Number of Candidates: 15
Valutazione complessiva: 78.36/100
Final Ranking: 11th

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Bando 367.9 DSFTM IMM RIC ISTITUTO PER LA MICROELETTRONICA E MICROSISTEMI

CONCORSO PUBBLICO PER TITOLI ED ESAMI PER L'ASSUNZIONE CON CONTRATTO DI LAVORO A TEMPO PIENO E INDETERMINATO DI UNA UNITÀ DI PERSONALE PROFILO RICERCATORE, III LIVELLO PROFESSIONALE PRESSO L'ISTITUTO PER LA MICROELETTRONICA E MICROSISTEMI UOS DI BOLOGNA - AFFERENTE AL DIPARTIMENTO SCIENZE FISICHE E TECNOLOGIE DELLA MATERIA DEL CONSIGLIO NAZIONALE DELLE RICERCHE
Number of Candidates: 30
Valutazione complessiva: 82.90/100
Final Ranking: 15th

Finalist @ CNR Senior Researcher (II Livello) Permanent Position

Bando 367.141 PR STRUTTURE/ ISTITUTI DEL CONSIGLIO NAZIONALE DELLE RICERCHE
CONCORSO PUBBLICO PER TITOLI E COLLOQUIO PER L'ASSUNZIONE CON CONTRATTO DI LAVORO
A TEMPO PIENO E INDETERMINATO DI N. 1 UNITÀ DI PERSONALE PROFILO PRIMO RICERCATORE - II LIVELLO PROFESSIONALE - PRESSO IL CONSIGLIO NAZIONALE DELLE RICERCHE
Total Number of Candidates: 121
Number of Candidates admitted to Oral examination : 12
Valutazione complessiva: 76.10/100 (Titles: 42.10/60; Oral examination: 34/40)
Final Marks: 76.10/100 (< 80/100 Threshold for Eligibility)
Final Ranking: 7th Place

CNR Senior Researcher (II Livello) Permanent Position Eligibility

Bando 367.194 PR SISTEMI COMPLESSI MATERIA SOFFICE BIOFISICA STRUTTURE/ ISTITUTI DEL CONSIGLIO NAZIONALE DELLE RICERCHE
CONCORSO PUBBLICO PER TITOLI E COLLOQUIO PER L'ASSUNZIONE CON CONTRATTO DI LAVORO
A TEMPO PIENO E INDETERMINATO DI N. 1 UNITÀ DI PERSONALE PROFILO PRIMO RICERCATORE - II LIVELLO PROFESSIONALE - PRESSO IL CONSIGLIO NAZIONALE DELLE RICERCHE
Total Number of Candidates:>120
Number of Candidates admitted to Oral examination : 12
Valutazione complessiva: 80.27/100 (Titles: 47.27/60; Oral examination: 33/40)
Final Marks: 80.27/100
Final Ranking : 8th Place

CNR Director of Research (I Livello) Permanent Position Eligibility

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Bando 367.161 DR STRUTTURE/ ISTITUTI DEL CONSIGLIO NAZIONALE DELLE RICERCHE

CONCORSO PUBBLICO PER TITOLI E COLLOQUIO PER L'ASSUNZIONE CON CONTRATTO DI LAVORO
A TEMPO PIENO E INDETERMINATO DI N. 1 UNITÀ DI PERSONALE PROFILO DIRIGENTE DI RICERCA - I LIVELLO PROFESSIONALE - PRESSO IL CONSIGLIO NAZIONALE DELLE RICERCHE, AREA STRATEGICA MATERIALI INNOVATIVI, TECNICHE AVANZATE DI CARATTERIZZAZIONE E MODELLING

Total Number of Candidates: > 100
Number of Candidates eligible: 45
Final Ranking: 30th Place

Projects (Financed):

1. Progetto Bilaterale Italia-USA, "Nanocarriers for Cancer Therapy" from Italian Ministero degli Esteri (MAE) (**ITA Coordinator Dr. Stefano Leporatti**, USA Coordinator Prof. Yuri M. Lvov, Institute of Micromanifacturing (IfM) Louisiana Tech. University, Ruston, Louisiana). (July 2008- July 2011) Theme: "Development and characterisation of nanocarriers produced by LbL drugs encapsulation for studying their uptake by cancer cells: application in novel therapies against cancer". Team: Stefano Leporatti (Coordinator), Viviana Vergaro (PhD student).
2. Progetto UdR-IIT-NNL Lecce (Coordinator Prof. R. Rinaldi). "Cell to chips and chips to cells "(July 2009-July 2011). Theme: "Cytomechanics of cancer cells and nano-engineering of drug-loaded carriers as a new nanotechnological therapy against cancer". Team: **Stefano Leporatti (PI)**, Viviana Vergaro (PhD student)
3. Progetto "Reti di Laboratorio" finanziato dalla Regione Puglia "Nano-Biotecnologie per diagnostica e sviluppo di terapie innovative" (NaBiDit) (2010-2013) (Coordinator Prof. R. Rinaldi). Theme: "Fabrication and characterization of nano- and microcapsules of biocompatible and biodegradable polyelectrolyte multilayers made on nano- and microtemplates dissoluble in mild conditions for incapsulation of low solubility drugs and for intracellular controlled delivery". Team: **Stefano Leporatti (PI)**, Valentina Arima (CNR Researcher), Viviana Vergaro (PhD student), Flavia Scarlino (Post-graduated Fellowship), Claudia Bellomo (Undergraduate Student).
4. Progetto "Reti di Laboratorio" finanziato dalla Regione Puglia "Nano-Biotecnologie per diagnostica e sviluppo di terapie innovative" (2010-2013) (Coordinator Prof. R. Rinaldi). Theme: "Development of nano- and microgels, micro- and nanotubes and rings of polyelectrolyte multilayers, nanoassembled onto a semiconductor surface by Layer-by-Layer (LbL) technique and rolled by micro e nano-fabbrication technologies". Team: **Stefano Leporatti (PI)**, Laura Blasi (CNR Researcher), Teresa Todaro (CNR Researcher) Viviana Vergaro (PhD student), Simona Argenteri (Postdoctoral researcher).
5. Progetto Bilaterale Italia-Portogallo del CNR "Nanocapsule e nanoparticelle per il delivery controllato di Beta-Sheet Breaker Peptides" in collaboration with Prof. Manuel Coelho (Department of Chemical Engineering, Porto University, Portugal) through "Accordo di Cooperazione scientifica tra il CNR e la FCT " (2009-2010). Theme: Development of functionalised nanoparticles and nanocapsules for controlled delivery. Team: **Stefano Leporatti (Coordinator)**, Viviana Vergaro (PhD student).
6. Progetto Regionale "Ritorno al Futuro " finanziato dalla Regione Puglia, "Incapsulazione di Antocianine in nanovettori (Incanto)" (2010-2011). Team: **Stefano Leporatti**

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(Tutor), Giovanna Lucarelli (Fellowship winner, Postgraduated Student), Giuseppe Ciccarella (Reserecher). Industrial Collaborators: Green Chem Lab, Lecce (Prof. G. Vasapollo).

7. Progetto Associazione Italiana Ricerca Cancro (AIRC) " (2010-2012) "Locoregional delivery of unmethylated CpG-oligodeoxynucleotides for cancer therapy: preclinical and clinical studies "Coordinator: Prof. Andrea Balzari, Immunology Chair, University of Milan and Istituto Nazionale Tumori (INT), Milan. **Collaborator: Dr. Stefano Leporatti.**
8. Fondazione Caripuglia 2009 Coordinator: Prof. Gianluigi Giannelli, **Collaborator: Dr. Stefano Leporatti.**
9. Progetto Impresa "Pharmacological Innovative Drug Tracking, (Pharmatracking)" Coordinator: Prof. Gianluigi Giannelli, **Collaborator: Dr. Stefano Leporatti**.
10. Progetto Innova Onlus (Industrial Project), Title "Delivery of bioactive compounds and anti-neoplastic drugs through tailored nano-encapsulation for biomedical applications". **Coordinator and Team Leader: Dr. Stefano Leporatti.**
11. Call: FP7-PEOPLE-2012-ITN Marie Curie Initial Training Networks (ITN) "Strategy to Inihibit TGF-β1 in liver disease (IT-Liver)“ (2012-2016) Coordinator: Dr. Isabel Fabregat, PhD; **CNR-Nano Responsable: Dr. Stefano Leporatti.**
12. Progetto Associazione Italiana Ricerca Cancro (AIRC) " (2011-2013) "“Targeting TGF-beta1 as a sustained released and tailored therapy in patients with HCC" Coordinator: Prof. Gianluigi Giannelli (University of Bari, Department of Internal Medicine, Policlinic di Bari). **Collaborator: Dr. Stefano Leporatti.**
13. Progetto Prin "NANO Molecular Technologies for Drug delivery (NANOMED)" (2012-2015) Coordinator: Prof. Giuseppe Vasapollo (University of Salento, Department of Innovation Engineering, Lecce, Italy), **Partner for CNR: Dr. Stefano Leporatti**
14. Progetto Regionale Distretti Tecnologici "Rigenerazione di tessuti nervosi ed osteocartilaginei mediante innovativi approcci di Tissue Engineering (RINOVATIS)" (2013-2015) Coordinator: Prof. Alessandro Sannino (University of Salento, Department of Innovation Engineering, Lecce, Italy), **Partner for CNR-Nano: Dr. Stefano Leporatti**.
15. Progetto Associazione Italiana Ricerca Cancro (AIRC) (2016-2019) “TARGETING NOTCH PATWAY FOR PERSONALIZING THERAPY IN CHOLANGIOCARCINOMA”. Coordinator: Prof. Gianluigi Giannelli, (Department of Biomedical Sciences and Human Oncology, University of Bari Medical school, Bari, Italy) **Collaborator: Prof. Stefano Leporatti.**

16. Progetto EFESTO- Graphene multistrato come fonte di nuovi materiali e prodotti nanostrutturati per applicazioni tribologiche, termoconvenzione ed edilizia” Finanziato nell’ambito del Fondo per la Crescita Sostenibile (FCS) -Accordi per l’innovazione “Fabbrica Intelligente “ Prog. n. F/240013/05/X49 (Coordinator : Prof. Giuseppe Ciccarella; **Collaborator: Prof. Stefano Leporatti**) (2022-2025).

17. Progetto "Tecnopolo per la medicina di precisione (TecnoMed Puglia)"—Regione Puglia: DGR no. 2117 of 21 November 2018: CUP: B84I18000540002.(2019-2023) (Coordinator: Prof. Giuseppe Gigli; **Collaborator: Prof. Stefano Leporatti**) (2020-2025).

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18. Progetto " Tecnopolo di Nanotecnologia e Fotonica per la medicina di precisione (TECNOMED"—FISR/MIUR-CNR: delibera CIPE no. 3449 of 7 August 2017: CUP: B83B17000010001. (Coordinator: Prof. Giuseppe Gigli; **Collaborator: Prof. Stefano Leporatti)** (2020-2025).

19. Project " National Center for Gene Therapy and Drugs based on RNA Technology" (Project no. CN00000041 CN3 RNA supported by EU funding within MUR PNRR. (Coordinator : Dott.ssa Ilaria Palamà; **Collaborator: Prof. Stefano Leporatti**) (2022-2025)

20. Progetto "Fit4MedRob- Fit for Medical Robotics" Grant (contract number CUP B53C22006960001) Funded by Italian Ministry of Research (MUR) under the complementary actions to the NRRP (PNC0000007).(Coordinator : Dott.ssa Loretta Del Mercato; **Collaborator: Prof. Stefano Leporatti**) (2022-2026)

CNR Commission Member in Tenders for:

1. Ricercatore III liv. (CNR Researcher)
   - BANDO 001_2010 LE – prot. n. NANO-CNR 1589 del 30/6/2010, Role: **Effective Member**
   - Bando NANO 010/2013 LE – prot. 41259 del 09/07/2013, Role: **President**
   - Bando N. NANO 011/2013 LE – prot. 0004506 del 25/07/2013, Role: **Effective Member**.
   - Bando N. NANO 009/2013 LE – prot. 4777 del 06/08/2013, Role: **Effective Member**
   - BANDO N. 400.13 NANOTEC PNRR – prot. n. 0205954 in data 04/07/2023. Role: **Effective Member**

2. Borsa di Studio (CNR Graduate\Postgraduate Fellowship)
   - Bando CNR-INFM n. BS 20/2009, Atto della Responsabile CNR-INFM n. 912/09 del 22/12/2009, Role: **Effective Member**
3. Assegno di ricerca (CNR Postdoc Fellowship)
   - Bando CNR-INFM n. AR 10/2009 atto n.423/09. Role: **Effective Member**

Assignements:

2018-2019
Nominated RUP (Responsabile Unico Procedimento) for Tenders with budget less than 40000 euro.

N. 202310 del 20230630 (2023-CNR0A00-0202310)
Oggetto: NOMINA DEL DIRETTORE DELL'ESECUZIONE DEL CONTRATTO RELATIVO ALLA FORNITURA DI UNA PIATTAFORMA DI MICROSCOPIA CONFOCALE SPETTRALE MULTIFOTONE NELL'AMBITO DEL PNRR PROGETTO I-PHOQS CUP B53C22001750006 CIG 9674985232_LEPORATTI

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Educational experience

Laurea (M.Sc. equivalent) in Physics, University of Genova (Italy) @ Genoa University, Department of Physics Via Dodecaneso 3, 16146 Genoa (Italy), Defence date: February 15, 1995.
(October 1993-February 1995) **Thesis in Biophysics:**
" *Polymeric Separated Phase in Monomolecular Films revealed by Scanning Force Microscopy* " *("Fasi Polimeriche Separate in Films Polimerizzati rivelati dalla Microscopia a Scansione di Forza")*
Supervisor: Prof. Ranieri Rolandi, Referee: Prof. Martino Bolognesi.

Scientific Lyceum "Nicoloso da Recco" Recco (Italy), Final Diploma Examination Date: July 28th, 1986.

PhD ("Dottorato") and Master Thesis ("Laurea Specialistica") tutor:

Tesi di Dottorato in Nanoscienze:

1) **Daniele Vergara** *"IFNα Therapy in multiple sclerosis: biological and nano-mechanical response in peripheral blood mononuclear cells and astrocytes"* discussed on 15th September 2008.
2) **Viviana Vergaro** "*Development and characterisation of functional micro\nano-materials as tools for drug delivery*" discussed on 26th June 2012.

Tesi di Dottorato in Fisica e Nanoscienze :

3) **Mariafrancesca Cascione** *"Atomic Force Microscopy on Living Cells: Biomechanical Approach to Study Human Disease"* discussed on 13th October 2016.
4) **Nemany Abdelhamid Nemany Hanafy** *"Development and Production of Multifunctional Bio-Nano-engineered Drug Delivery Systems Loaded by TGF 61 inhibitors for delivering into Hepatocellular Carcinoma Cells."* discussed on 18th July 2017.

Tesi di Dottorato in Nanotecnologia:

5) **Francesca Persano** *"Nanocarriers development for the encapsulation of natural bioactive compounds and an HSP90 inhibitor in the treatment of malignant glioma"* discussed on 29th July 2022

Tesi di Laurea in Biotecnologie Università degli Studi di Bari

1) **Viviana Vergaro** *"Studio citomeccanico e morfostrutturale delle modificazioni indotte dalla biofunzionalizzazione del substrato e dal trattamento con resveratrolo nella linea cellulare di carcinoma mammario MCF-7"* discussed on 24th July 2008.
2) **Ilaria Palamà** *"Sintesi e Validazione di Capsule Nanoingenierizzate per il Drug Delivery su Cellule Tumorali"* discussed on 12th December 2008.
3) **Claudia Bellomo** *"Validation of drug nanocolloids and polyelectrolyte capsules as novel carriers for controlled drug delivery into ovarian cancer*" discussed on 20th December 2010.

Tesi di Laurea Specialistica in Biotecnologie Università del Salento

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Simona Bettini *"Caratterizzazione biochimico-fisica di oleosomi artificiali: proprietà all'interfaccia ari-acqua ed analisi morfologico-strutturale dei relativi film"* discussed on November 2008.
Rosanna Pagano *"Caratterizzazione biochimico-fisica di oleosomi purificati da specie vegetali: proprietà all'interfaccia ari-acqua ed analisi morfologico-strutturale dei relativi film"* discussed on November 2008.
Flavia Scarlino *"SVILUPPO DI MICROCARRIERS NANOINGEGNERIZZATI PERIL DELIVERY DI FARMACI ANTINEOPLASTICI IN CELLULE DI EPATOCARCINOMA"* discussed on 26th April 2010.
Carla Romano *"Sviluppo e validazione di halloysite nanotubes per il delivery di farmaci anticancro in cellule neoplastiche"* discussed on 19th July 2010.
Valentina Greco "*Sviluppo e caratterizzazione di nanoparticelle magnetiche rivestite di multistrati polimerici biodegradabili per il targeting di curcumina*" discussed on 10th December 2013.
Serena Mancarella "*SVILUPPO E CARATTERIZZAZIONE DI MICROCAPSULE NANO-INGEGNERIZZATE PER IL TARGETING TUMORALE DI RESVERATROLO*" discussed on 10th December 2013.

Tesi di Laurea Specialistica in Biologia applicata alla Biomedicina Università di Pisa
Chiara Dionisi *"Sviluppo e caratterizzazione di halloysite nanotubes per il delivery di farmaci antineoplastici in cellule tumorali"* discussed on 21th July 2015.
Tesi di Laurea Specialistica in Fisica, Università del Salento
Maria Francesca Cascione "*Caratterizzazione morfologica e citomeccanica di cellule tumorali mediante microscopia ottica ed a scansione di forza*" discussed on 29th April 2012.
Tesi di Laurea Triennale in Biotecnologie Università del Salento
Diletta Quarta Colosso *"Preparazione di microcapsule polimeriche per la veicolazione controllata di farmaci antitumorali"* discussed on 9th December 2010.

Progetto Italia Lavoro-Tirocinio Extracurriculare (Tutor)
Serena Mancarella " *SVILUPPO E CARATTERIZZAZIONE DI NANOPARTICELLE PER IL TARGETING TUMORALE DI POLIFENOLI*" (1st April 2014-31 July 2014).

Referee of **Mr. Jiaying Yu** PhD Thesis "Functionalization of halloysite nanotubes for applications in catalysis, photocatalysis and drug delivery" from Università degli Studi di Padova, Dipartimento di Scienze Chimiche Science and Engineering of Materials and Nanostructures (SIMN) Cycle: XXIII, submitted on 05/11/2020

Skills:

***Languages*:**
Italian (Mother Tongue)
English (very good spoken and written)
German (very good spoken and written).

***Computer*:**
McIntosh, PC's, Unix workstations, Vax-Vms.

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***Operative Systems*:** Microsoft Windows Workgroup 3.1, 95, NT, 2000 Professional, XP Home Edition, VAX-Vms.
***Image Processing*:** Fototouch, Photostyler Photoshop, Graphic Workshop, Image PC, NIH Image, Image Tool and Corel Draw**.**
***Scanning Probe Microscopy Image Processing*:** Nanoscope II, Nanoscope III, Nanoscope IV, NanoScope V (Digital-Veeco Instruments Inc), Graphic Processor (GP2, GP3) (Advanced Surface Microscopy, Inc), Nanoview and Scanning Probe Image Processor (SPIP) (Image Metrology), Molecular Force Probe 3D Atomic Force Microscope Software (Igor Pro, Wavemetrics)**.**
***Force Spectroscopy**:* Molecular Force Probe (Asylum Research Inc.) Picoforce (Veeco Instr.)
***Word processing*:** Word, Wordstar, LateX.
***Data Processing**:* Asystant, Excel, Origin and Igor Pro (Wavemetrics)**.**

Hobby and Interests:

Sports fan, Soccer, modern music (pop, rock, and other), puzzles, logic games**.**

Instruments:

- **Scanning Probe Microscope** (Atomic Force Microscope (AFM) (Multimode, Picoforce, Bioscope I and II, Catalyst, Dimension 3100 Veeco Instr., USA) & Scanning Tunneling Microscope (STM) (Multimode STM Head, Veeco Instr., USA)
- **Molecular Force Probe** (MFP-1D, from Asylum Research Inc., USA)
- **Molecular Force Probe 3D Atomic Force Microscope** (MFP-3D, from Asylum Research Inc., USA)
- **Fluorescence and Optical Microscope** (Axiovert 135 and Axio Observer Z1 Zeiss, Germany, Olympus IX 70 and IX 71, Zeiss, Germany)
- **Confocal Laser Scanning Microscope** (Leica TCS SP5 2-Photon, TCS SP2 II Leica Microsystems GmbH, Germany, LSM 700 Zeiss, Germany)
- **Brewster Angle Microscope** (BAM1, NFT Göttingen, Germany)
- **Grazing Incidence X-ray Diffraction** (GIXD, Hasylab, Desy, Hamburg, Germany)
- **Small Angle Neutron Scattering** (SANS, Hahn-Meitner-Institut (HMI), Berlin, Germany)
- **Langmuir Troughs** (RCM2-T, Meyer Feintechnik, Göttingen; R&K, Berlin, Germany)
- **Evaporator** (High Vacuum, HV)
- **Electrochemical Cell**
- **Fluorescence Spectroscopy** (Fluorolog Spex).
- **Micromanipulator** (Nanoman Eppendorf, Germany)

Scientific activities:

He has carried out research in the following fields**:**

- **Nanophysics at the air/water and the air/substrate interface**
- **Characterization of Langmuir and Langmuir-Blodgett mono- and multilayers**
- **Deposition of amphiphilic molecules (i.e. surfactant or lipids) on solid substrates (silicon wafers, mica, quartz and glass supports)**
- **Polymerization of Langmuir monolayers by UV light**

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- **Characterization of organic thin films with Scanning Force Microscopy**
- **Evaporation of Gold onto glass and mica support**
- **Preparation and Characterization of Gold (111) with Scanning Probe Microscopy (AFM and STM)**
- **Electrochemical and Scanning Probe Microscopy Investigation of Self-assembled Monolayers onto Gold (111) substrates**
- **Study of the molecular structure of phospholipid monolayers by X-ray Synchrotron Diffraction**
- **Investigation of spin- cast and -coated alkane on SiO_2/air interface by Atomic Force Microscopy**
- **Morphological investigation of Superconducting thick films grown by cryoelectrophoresis**
- **Characterization of biological nanostructure with Confocal Laser Scanning Microscopy and Scanning Force Microscopy**
- **Preparation and characterization of layer-by-layer (LbL) polyelectrolyte multilayers nanocapsules**
- **Investigation of the stability, elasticity and morphology of polymer capsules upon annealing by means of Scanning Force Microscopy and Confocal Laser Scanning Microscopy**
- **Fluorescence Spectroscopy of polyelectrolyte layers nanocapsules**
- **Molecular and Colloidal Force Spectroscopy**
- **Micromanipulation of Colloidal Microparticles**
- **Study of multilayer-coated and uncoated latex particles using Small Angle neutron Scattering (SANS)**
- **Investigation of polyelectrolyte multilayered coated and hollow particles by means of Small Angle Neutron Scattering (SANS)**
- **Investigation of polyelectrolyte multilayered- coated capsules templated on Red Blood Cells and Hollow Particles by means of Small Angle Neutron Scattering (SANS)**
- **Investigation of polyelectrolyte multilayer- and lipid- coated microparticles by Atomic Force Microscopy**
- **Investigation of biocompatible layer-by-layer assembled polyelectrolyte ultrathin films, microparticles and capsules by Scanning Force Microscopy**
- **Study of interaction forces between cellulose microspheres and cellluose ultrathin films-screening of potential wet strength agents for improving functional tissues properties**
- **Colloidal Probe Microscopy Investigation of Viscoelastic and Mechanical Properties of Macrophages upon Lipopolysaccharide Stimulation**
- **Scanning Force Microscopy Imaging and Force Mapping (Force Volume) for Cytomechanics and Morphostructure Investigation of Living and Fixed Cancer (Stem) Cells (MCF-7 human breast cancer cell, HeLa human adenocarcinoma cervical cancer cell, B104 rat neuroblastoma cell, HCC Hepatocarcinoma) and Neuronal Cells (SH-SY-5Y, Astrocytes).**
- **Development of multifunctional Nanocarriers (nanocolloids, nanocapsules and nanotubes) for intracellular delivery to Cancer (Stem) cells.**

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- **Development of CAT Microscopy: Confocal-Atomic Force -Total Internal Reflection Fluorescence Microscopy**

Awards:

- Grants for participating to XIV Congresso della Società Italiana di Biofisica Pura ed Applicata (SIPBA) Genova (Italy) 24-26 September 1998.

- Stefano Leporatti, Andreas Voigt, Rita Mitlöhner, Gleb B. Sukhorukov, Edwin Donath, Helmuth Möhwald " *Scanning Force Microscopy Investigation of Polyelectrolyte Nano- and Microcapsules Wall Texture* " *Langmuir* 16, 4059 (2000) **(Article awarded by the *Color Cover Issue*).**

-Lars Dähne, Stefano Leporatti, Edwin Donath, Helmuth Möhwald " *Fabrication of micro reaction cages with tailored properties* " *J. Am. Chem. Soc.* 123, 23, 5431-5436 (2001) **(Article published by Journal Permission *with color figures without fees* in web and printed edition).**

- Zhifei Dai, Andreas Voigt, Stefano Leporatti, Edwin Donath, Helmuth Möhwald " *Layer-by-layer Self-assembly of Charged Macromolecules and Aqueous Insoluble Low Molecular Weight Species into Capsules* " *Adv. Mat.* 13, 17, 1339-1342 (2001) (**Article awarded by the Color Cover Issue).**

- Xiping Qiu, Stefano Leporatti, Edwin Donath, Helmuth Möhwald " *Studies on the drug release properties of polysaccharide multilayers encapsulated ibuprofen microcapsules* " *Langmuir* 17, 5375-5380 (2001). **(Article cited and awarded with a colour image in *Editor's Choice, Science* vol. 293, August 24th, 2001)**

- Irina Estrela-Lopis, Stefano Leporatti, Daniel Clemens, Edwin Donath *"Polyelectrolyte multilayer hollow capsules studied by small-angle neutron scattering (SANS) "* *Soft Matter* , 2009, 5, 214–219. **(Awarded as Hot Paper, Editor suggestion).**

- S. Leporatti, D. Vergara, A. Zacheo, V. Vergaro, G. Maruccio, R. Cingolani, R. Rinaldi *"Cytomechanical and topological investigation of MCF-7 cells by scanning force microscopy"* *Nanotechnology* 20 (2009) 055103 (6pp) (doi:10.1088/0957-4484/20/5/055103). (**Paper of the month, Cover Page Issue and included in *Highlights of 2009 collection* of Nanotechnology:** http://herald.iop.org/nanohighlights/m63/ljc/301274/link/3326**).**

- Viviana Vergaro, Elshad Abdullayev, Yuri M. Lvov, Andre Zeitoun, Roberto Cingolani, Ross Rinaldi and Stefano Leporatti "*Cytocompatibility and Uptake of Halloysite Clay Nanotubes*" Biomacromolecules (2010) 11, pp. 820–826. (**Highly Cited Paper, awarded by ISI Web of Science:** As of September/October 2015, this highly cited paper received enough citations to place it in the top 1% of its academic field based on a highly cited threshold for the field and publication year).

- Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi, Bhavna Rani, Yuan Cao, Gianluigi Giannelli and Stefano Leporatti *"LY2157299-Loaded Carriers Inhibiting*

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Wound Healing in Hepatocellular Carcinoma" **European Biotechnology Congress 2014, Lecce 15th -18th May 2014 (Oral Communication, Awarded as Third EBTN Best Oral Presentation)**

- Short Term Mobility Program, CNR Award: Bursary Grant to Stay @ Group of **Prof. Mauro Ferrari @ Methodist Hospital Research Institute**, Department of Nanomedicine, Houston,TX (USA) (17th October 2014-7th November 2014) Theme *"Cytomechanical investigation of Pancreatic Cancer Cells by Scanning Force Microscopy"*

- Serena Mancarella, Valentina Greco, Francesca Baldassarre, Daniele Vergara, Michele Maffia, Stefano Leporatti "*Polymer-coated Magnetic Nanoparticles for Curcumin Delivery to Cancer Cells*" Macromolecular Bioscience, 2015 15,1365-1374, DOI:10.1002/mabi.201500142. (**Awarded by Colour Frontispiece of 10\2015 Issue**)

- ICL Registration Boursary Grant for participating to EASL Conference Barcelona awarded to **Nemany A. Hanafy** for **ePoster** and **Poster Paper Presentation** of "ENCAPSULATION OF SHT-DNA, SIRNA AND POLYPEPTIDE -17 INSIDE HYBRID POLYMERIC NANO-PROTEIN FOLIC ACID (HPNP-FA) CARRIER AS TARGETED TGFB INHIBITOR FOR HEPATOCELLULAR CARCINOMA **Nemany A. N. Hanafy, Alessandra Quarta, Riccardo Di Corato, Luciana Dini, Concetta Nobile,Maria Luisa De Giorgi, Vittorianna Tasco, Sonia Carallo, Mariafrancesca Cascione, Rosaria Rinaldi, Isabel Fabregat** and **Stefano Leporatti @** EASL Conference, Barcelona 13th-17th April 2016**.**

- Short Term Mobility Program, CNR Award: Bursary Grant to Stay at Group of **Prof. Josè Toca-Herrera @ Department of Nanobiotechnology**, Institute for Biophysics **@ BOKU (University of Natural Resources and Life Sciences)** (15th January 2018-5th February 2018) Theme "*Scanning Force Microscopy investigation of cancer cells".*

Abdel-Majeed Safer, Stefano Leporatti, Jacquilion Jose, Mahmoud S. Soliman "*Conjugation of EGCG and Chitosan NPs as a novel Nano-Drug Delivery System*" International Journal of Nanomedicine 2019:14 8033–8046. (***Awarded Publication by Kuwait University***)

Short Term Mobility Program, CNR Award: Bursary Grant to Stay at Group of **Prof. Josè Toca-Herrera @ Department of Nanobiotechnology**, Institute for Biophysics **@ BOKU (University of Natural Resources and Life Sciences)** (October-November 2020) (***post-poned due to COVID pandemy***) Theme "*Scanning Force Microscopy investigation of brain cancer cells".*

Guest Professorship Award of **Department of Nanobiotechnology**, **BOKU (University of Natural Resources and Life Sciences**) @ Group of **Prof. Josè Toca-Herrera**, Director of Institute for Biophysics (1st June 2020-30th June 2024) for performing Teaching Course: **Nanomedicine and techniques of analysis at the nanoscale** (2CFU,10 hours) and working on " Scanning Probe Techniques to the investigation of Biomechanics of cells."

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F Persano, S Batasheva, GI Fakhrullina, G Gigli, S Leporatti, RF Fakhrullin "*Recent Advances in the Design of Inorganic and Nano-Clays Particles for the Treatment of Brain Disorders* "Journal of Materials Chemistry B (2021), 9(12) 2726. https://doi.org/10.1039/D0TB02957B. (**Awarded by Color Frontispiece of 01/04/2021 Issue**)

Certificate of Recognition for *Reviewing Activity* **in 2015-2016 from** *ACS Publications*, **American Chemical Society.**

Certificate of Recognition for *Reviewing Activity* **in 2017-2018 from** *ACS Publications*, **American Chemical Society.**

Outstanding Contribution in Reviewing, December 2016 from *Journal of Controlled Release*, **Elsevier.**

Outstanding Reviewer Awards 2017, of *Nanotechnology* from ***IOP Publishing.***

Top Peer Reviewer 2019 (Powered by **Publons)** for placing in the top 1% of Cross-Field on Publons global reviewer database, determined by the number of peer review reports performed during 2018-19 award year (The Top Peer Reviewer Award is part of the Global Peer Review Awards-honoring the elite contributions of scholarly peer review and editorial pursuits internationally).

Top 2 % Scientists year 2024: Main Field: **Physics & Astronomy**; Sub Field: **Chemical Physics**; Rank in the SubField: 1405 out of 106831 authors (The data is verified and sourced by **ELSEVIER** and **Stanford University**'s Top 2% Scientists List.

Scientific stays:

Group of **Prof. Dr. H-J Butt** (Max Planck Institute for Biophysik, Frankfurt am Main) working on " Evaporation of ultraflat monocristalline gold (111) " 29th –30th May 1996.

Hasylab Desy, Hamburg **(Beamiline BW1)** working on "Grazing Incidence X-ray Diffraction on phospholipid monolayers at the air/water interface" 24th –26th February 1999.

Hahn-Meitner-Institut (HMI), Berlin working on " Small Angle Neutron Scattering on multilayered-coated and uncoated latex particles ", 10th –13th April 2000.

Hahn-Meitner-Institut (HMI), Berlin working on " Small Angle Neutron Scattering on polyelectrolyte multilayered coated and hollow particles ", 13th –17th December 2001.

Hahn-Meitner-Institut (HMI), Berlin working on " Small Angle Neutron Scattering on polyelectrolyte multilayered-coated Red Blood Cells and hollow particles ", 19th –21st December 2003.

Group of **Prof. Mauro Ferrari @ Methodist Hospital Research Institute**, Department of Nanomedicine, Houston,TX (USA) (17th October 2014-7th November 2014) Theme

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"Cytomechanical investigation of Pancreatic Cancer Cells by Scanning Force Microscopy" (**Short Term Mobility Program, CNR Award**)

Group of **Prof. Josè Toca-Herrera @ Department of Nanobiotechnology**, The Institute for Biophysics **@ BOKU (University of Natural Resources and Life Sciences**) (15th January 2018-4th February 2018) Theme "Scanning Force Microscopy investigation of cancer cells" (**Short Term Mobility Program, CNR Award**)

Group of **Prof. Josè Toca-Herrera @ Department of Nanobiotechnology**, at The Institute for Biophysics **@ BOKU (University of Natural Resources and Life Sciences**) (20th October 2020-9th November 2020) Theme "Scanning Force Microscopy investigation of brain cancer cells" (**Short Term Mobility Program, CNR Award**) ***(postponed due to COVID pandemy: October 2022-November 2022)***

Guest Professorship Award of **Department of Nanobiotechnology**, **BOKU (University of Natural Resources and Life Sciences**) @ Group of **Prof. Josè Toca-Herrera**, Director of Institute for Biophysics (1st June 2024-30th June 2024) for performing Teaching Course: **Nanomedicine and techniques of analysis at the nanoscale** (2CFU,10 hours) and working on " Scanning Probe Techniques to the investigation of Biomechanics of cells."

Publications in Peer-Reviewed Journals

1) S. Leporatti, O. Cavalleri, R. Rolandi, P. Tundo
" *Polymeric Separated Phase in Monomolecular Films revealed by Scanning Force Microscopy* " *Langmuir* 10 (1994) 1334 - 1336.

2) **R. Rolandi, S. Dante, A. Gussoni, S. Leporatti, L. Maga, P. Tundo**
" *Polymerized Monomolecular Films: Microscopic Structure, Viscosity and Photopolymerization Kinetics* " *Langmuir* 11 (1995) 3119 - 3129.

3) L. Basano, S. Leporatti, P. Ottonello, V. Palestini, R. Rolandi

" *Measurements of surface roughness: use of CCD camera to correlate doubly speckle patterns* " *Applied Optics* vol. 34, No 31, 1st Nov. 1995, 7286-7290.

4) G. Caminati, D. Berti, G. Gabrielli, S. Leporatti, R. Rolandi, M. G. Ponzi – Bossi, B. Yang
" *Structural characterization of Langmuir-Blodgett films of nickel complexes with amphiphilic compounds* " *Thin Solid Films* vol. 284 - 285, (1996), 181 - 186.

5) R. Eggenhoffner, A. Tuccio, R. Masini, A. Diaspro, S. Leporatti, R. Rolandi
" *Oriented YBa2Cu3O7-□ thick films grown by cryo-electrophoresis* " *Superconducting Science and Technology* 10 (1997) 142-146.

6) S. Leporatti, S. Akari, F. Bringezu, G. Brezesinski, H. Möhwald

" *Triple chain phospholipid monolayers: a scanning force microscopy and grazing incidence X-ray diffraction study* " *Applied Physics A Material Science & Processing 66, S1245-S1249, Part 2 Suppl. 5th March 1998.*

7) C. DeWolf, S. Leporatti, C. Kirsch, R. Klinger, G. Brezesinski
" *Phase separation in phosphatidylinositol/phosphatidylcoline mixed monolayers* " *Chemistry and Physics of Lipids* 97 (1999) 129-138.

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8) S. Leporatti, F. Bringezu, G. Brezesinski, H. Möhwald
" *Condensed Phases of Branched-Chain Phospholipid Monolayers investigated by Scanning Force Microscopy* " *Langmuir* 14 (1998) 7503-7510.
9) S. Leporatti, G. Brezesinski, H. Möhwald
" *Separated Phases of Branched-Chain Phospholipid Monolayers revealed by Scanning Force Microscopy* " *Colloids and Surfaces A* 161 (2000) 159-171.
10) A. Holzwarth, S. Leporatti, H. Riegler
" *Molecular ordering and domain morphology of molecularly thin triacotane films at SiO_2/air interface*" *Europhysics Letters* 52, (2), 653-659 (2000).
11) Stefano Leporatti, Andreas Voigt , Rita Mitlöhner, Gleb B. Sukhorukov, Edwin Donath, Helmuth Möhwald
" *Scanning Force Microscopy Investigation of Polyelectrolyte Nano- and Microcapsules Wall Texture* " *Langmuir* 16, 4059 (2000) **(Article awarded by the *Color Cover Issue*).**
12) Igor L. Radchenko, Gleb B. Sukhorukov, Stefano Leporatti, Gennady B. Khomutov, Edwin Donath, Helmuth Möhwald
" *Assembly of alternated multicharged-ion/polyelectrolyte layers on colloid particles. Stability of multilayers and encapsulation of macromolecules into polyelectrolyte capsules* " *J. Coll. Int. Sci.* 230, 272 (2000).
13) G. B. Sukhorukov, S. Davis, A .S. Susha, S. Leporatti, E. Donath, J. Hartmann, H. Möhwald
" *Hollow polyelectrolytes shells as template for precipitation of inorganic materials in confined geometry* " *J. Coll. Int. Sci.* 247, 251 (2002).
14) R. Georgieva, S. Moya, G. Reichle, S. Leporatti, B. Neu, H. Bäumler, E. Donath, H. Möhwald
" *Conductance and capacitance of polyelectrolyte and lipid-polyelectrolyte composite capsules as measured by electrorotation* " *Langmuir* 16,7075-7081 (2000).
15) S. Moya, L. Dähne, A. Voigt, S. Leporatti, E. Donath, H. Möhwald
" *Polyelectrolyte Multilayer Capsules Templated on Biological Cells: Core Oxidation influences Layer Chemistry*" *Colloids and Surfaces A* 183-185, 27-40 (2001).
16) Stefano Leporatti, Changyou Gao, Andreas Voigt, Edwin Donath, Helmuth Möhwald
" *Shrinking of Ultrathin Polyelectrolyte Multilayer Capsules upon Annealing: a Confocal Laser Scanning Microscopy (CLSM) and Scanning Force Microscopy (SFM) study* " *Eur. Phys. J. E* 5,13-20 (2001).
17) Changyou Gao, Stefano Leporatti, Edwin Donath, Helmuth Möhwald
" *Surface texture of Poly(styrenesulfonate sodium salt) and Poly(diallyldimethyl ammonium chloride) Micron-sized capsules* " *J. Phys. Chem B* 104, 7144-7149 (2000).
18) Changyou Gao, Stefano Leporatti, Sergio Moya, Edwin Donath, Helmuth Möhwald
" *Stability and mechanical properties of polyelectrolyte capsules obtained stepwise by assembly of poly(styrenesulfonate sodium salt) and poly(diallyldimethyl ammonium) chloride onto melamine resin particles* " *Langmuir* 17, 11, 3491-3495 (2001).
19) B. Neu, A. Voigt, R. Mitlöner, S. Leporatti, E. Donath, C. Gao, H. Kiesewetter, H. Möhwald, H. J. Meiselman, H. Bäumler
" *Biological Cells as Templated for Hollow Microcapsules* " *J. of Microenc.* 18, 3, 385-395 (2001).
20) Lars Dähne, Stefano Leporatti, Edwin Donath, Helmuth Möhwald

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" *Fabrication of micro reaction cages with tailored properties* " *J. Am. Chem. Soc.* 123, 23, 5431-5436 (2001) **(Article published by Journal Permission *with color figures without fees* in web and printed edition).**

21) Andreas Voigt, Norbert Buske, Gleb B. Sukhorukov, Alexei A. Antipov, Stefano Leporatti, Hans Bäumler, Edwin Donath, Helmuth Möhwald

" *Novel Polyelectrolyte multilayer micro- and nanocapsules as magnetic carriers*" *J. of Magn. & Magn. Mat.* 225, 59-66 (2001).

22) A.A. Antipov, G. B. Sukhorukov, S. Leporatti, I.L. Radchenko, E. Donath, H. Möhwald

" *Polyelectrolyte Multilayer Capsules Permeability Control* " *Coll. & Surf. A* Vol. 198-200 (18 February), 535-561 (2002).

23) H. Möhwald, H. Lichtenfeld, S. Moya, A. Voigt, G.B. Sukhorukov, S. Leporatti, L. Dähne, A. Antipov, C.Y. Gao, E. Donath

" *From polymeric films to nanocapsules* " *Studies in Surface science and Catalysis* 132, Elsevier Science B.V., Y. Iwasa, N. Oyama, H. Kunieda (Eds.) 485-490 (2001).

24) B.-D. Jung, J-D Hong, A. Voigt, S. Leporatti, L. Dähne, E. Donath, H. Möhwald

" *Photochromic Hollow Shells: Photoisomerization of Azobenzene Polyionen in Solution, in Multilayer Assemblies on Planar and Spherical Surface* "*Coll. & Surf. A* Vol. 198-200 (8th February) 483-489 (2002).

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51. **Stefano Leporatti, Ilaria Elena Palamà, Addolorata Maria Luce Coluccia, Carlo Gambacorti-Passerini, Antonio della Torre, Viviana Vergaro, Elisabetta Perrone, Roberto Cingolani, Ross Rinaldi "***Multilayered Polyelectrolyte Capsules and Coated Colloids: Cytotoxicity and Uptake by Cancer Cells*". **Cancer Conference Peking (China) 24th-29th June 2009 (Poster Communication)**.

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62. **Ilaria E. Palamà, Emanuela De Luca, Carlo Gambacorti-Passerini, Nicola Di Renzo, Michele Maffia, Ross Rinaldi, Roberto Cingolani, Stefano Leporatti and Addolorata M.L.Coluccia** *"IMATINIB-LOADED POLYELECTROLYTE MICROCAPSULES FOR SUSTAINED TARGETING OF BCR-ABL+ LEUKEMIA STEM CELLS"* **ICCR 2009, 22th-27th November 2009, Sesto S. Giovanni (Milan) (Italy). (Oral Communication).**

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65. **D.Vergara, R. Martignago, S. Leporatti, S. Bonsegna, F. De Nuccio, A. Santino, R. Cingolani, G. Nicolardi, R. Rinaldi, M. Maffia** "*IFN-beta therapy in multiple sclerosis:biological and nano-mechanical response in peripheral blood mononuclear cells and astrocytes*" **ItPA (Italian Proteomics Association) 5th ANNUAL NATIONAL CONFERENCE June 9 – 12, 2010 FIRENZE (Italy) (Poster Communication).**

66. **Simona Bettini,Stefania Bonsegna, Rosanna Pagano, Antonella Zacheo, Viviana Vergaro, Giovanna Giovinazzo, Gabriella Caminati, Stefano Leporatti, Ludovico Valli, Angelo Santino** "*Plant oil bodies as novel carriers to deliver lipophilic molecules*" **XXXIX Congresso Nazionale di Chimica Fisica, Stresa (Italy) 20 – 24 September 2010 (Poster Communication).**

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69. **V. Vergaro, Z. Zheng, X. Zhang, D. Vergara, C. Bellomo, F. Baldassarre, F. Scarlino, G. Giannelli, M. Maffia, Y. M. Lvov, and S. Leporatti** "*Nanocarriers for Cancer Therapy*" **10th INTERNATIONAL CONFERENCE ON NANOSTRUCTURED MATERIALS September 13–17 2010, La Sapienza University, Roma ITALY (http://nano2010.mlib.cnr.it). (Contributed Talk)**

70. **Viviana Vergaro, Zhiguo Zheng, Xingcai Zhang, Ross Rinaldi, Yuri M. Lvov and Stefano Leporatti** "*Halloysite Nanotubes and Nanocolloids as Novel Drug Nanocarriers*" **NanotechItaly Venice, 20/22 October 2010 (www.nanotechitaly.it) (Poster Communication).**

71. **V. Vergaro, Z. Zheng, X. Zhang, D. Vergara, C. Bellomo, F. Baldassarre, F. Scarlino, M. Bukowski, G. Giannelli, M. Maffia, Y. M. Lvov, and S. Leporatti** " *Nanocarriers for Cancer Therapy-Uptake Visualization*" **Nanosmat 5, Reims (France) 19-21 October 2010. (http://nanotechnews.wordpress.com/2009/12/17/nanosmat-5-5th-international-conference-on-surfaces-coatings-and-nanostructured-materials/) (Poster Communication).**

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72. **Viviana Vergaro, Flavia Scarlino, Claudia Bellomo, Ross Rinaldi, Xingcai Zhang, Elshad Abdullayev, Yuri M. Lvov, Francesca Baldassarre, Gianluigi Giannelli, Daniele Vergara, Michele Maffia and Stefano Leporatti** "*Nanotechnology for Cancer Therapy: NanoCarriers and BioMechanics*" **Matraia (Lucca) KICK-OFF MEETING Istituto Nanoscienze del CNR 6-7 OTTOBRE 2010 (Poster Communication)**

73. **Viviana Vergaro, Zhiguo Zheng, Xingcai Zhang, Yuri M. Lvov and Stefano Leporatti** "*Nanocarriers for Cancer Therapy*" **23° Convegno Annuale dell'Associazione Italiana Colture Cellulari (AICC) Nanotecnologie e Veicolazione di Farmaci and International satellite Symposium AICC-GISM "Pivotal Aspect in Mesenchimal Stem Cells Expansion, Istituto Nazionale Tumori, Milano November 24th-26th 2010 (http://www.onlus-aicc.org/frameset.htm) (Poster Communication).**

74. **Viviana Vergaro, Zhiguo Zheng, Xingcai Zhang, Yuri M. Lvov and Stefano Leporatti** "*NanoCarriers for Cancer Therapy*" **23° Convegno Annuale dell'Associazione Italiana Colture Cellulari (AICC) Nanotecnologie e Veicolazione di Farmaci and International Satellite Symposium AICC-GISM "Pivotal Aspect in Mesenchimal Stem Cells Expansion, Istituto Nazionale Tumori, Milano November 24th-26th 2010 (http://www.onlus-aicc.org/frameset.htm) (Contributed Talk).**

75. **Giovanna Lucarelli, Viviana Vergaro, Flavia Scarlino, Ross Rinaldi, Giuseppe Ciccarella, Giuseppe Vasapollo, Roberta Del Sole and Stefano Leporatti** " *Nanotecnologie antitumorali: con Bacco e Feymann in viaggio verso una nuova vita senza il Cancro*" **Festival dell'Innovazione Bari (http://www.festivalinnovazione.puglia.it/) (Poster Communication).**

76. **Viviana Vergaro, Zhiguo Zheng, Xingcai Zhang, Yuri M. Lvov and Stefano Leporatti** "*Nano-trasportatori intelligenti di farmaci antitumorali: nanotubi e nanocolloidi*" **Festival dell'Innovazione Bari (http://www.festivalinnovazione.puglia.it/) (Poster Communication).**

77. **Viviana Vergaro, Elshad Abdullayev, Yuri M. Lvov and Stefano Leporatti** "*Halloysite Nanotubes: Novel Carriers for Cancer Therapy*" **241st ACS National Meeting, Anaheim, CA (USA) March 27-31, 2011; Clay/polymer composites: from nanoplates to nanotubes. Symposium. (http://pmse.sites.acs.org/meetings.htm) (Poster Communication).**

78. **Vergaro V, Lvov YM, LEPORATTI S. (2012).** "*Nanocarriers for Cancer Drug Delivery*. **In: Max Planck Institute of Colloids and Interfaces, Summer School, Porto Cesareo, Lecce (Contributed Talk).**

79. **Cascione MF, Vergaro V, Denora N, Franco M, LEPORATTI S. (2012).** *CAT microscopy: a novel tool for 3D cell investigation*". **In: Max Planck Institute of Colloids and Interfaces, Summer School, Porto Cesareo, Lecce (Contributed Talk)**

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80. **Vergaro V, Lvov YM, LEPORATTI S. (2012). "***NANOTECHNOLOGY FOR CANCER THERAPY: WHERE WE ARE AND WHERE WE ARE GOING*" **In: Book of Abstracts, Workshop of Nanomedicine and Nanobiosystems, Lecce 6-8 September 2012 (Contributed Talk).**

81. **Denora N, Laquintana V, Lopalco A, Lopedota A, Cutrugnelli A, Mandracchia D, Iacobellis G, Fino V, Vergaro V, Cascione M, LEPORATTI S., Franco M, Latrofa A (2012) "***TARGETING THE MITOCHONDRIAL PROTEIN (TSPO) THROUGH G(4)-PAMAM DENDRIMERS.* **In: Book of Abstracts, XXII Simposio Adritelf, Congresso Nazionale Biomateriali, Firenze 13-16 Settembre 2012 (Poster Communication).**

82. **Viviana Vergaro, Yuri M Lvov and Stefano Leporatti** *"Halloysite Clay Nanotubes for Cancer Drug Delivery"* ***In: Book of Abstracts, Nanotechitaly 2012, 21-23 November Venice (Italy) 2012 (Poster Communication).***

83. ***Viviana Vergaro, Yuri M Lvov and Stefano Leporatti*** *"Halloysite Clay Nanotubes for resveratrol delivery to tumoral cells"* ***ACS meeting New Orleans, Louisiana, April 7-11, 2013. (Oral Communication).***

84. ***Giulia Soloperto, Francesco Conversano, Antonio Greco, Ernesto Casciaro, Andrea Ragusa, Aime' Lay-Ekuakille, Stefano Leporatti, Sergio Casciaro****"Assessment of the Enhancement Potential of Halloysite Nanotubes for Echographic Imaging"* **IEEE International Symposium on MeMea (Medical Measurements and Applications) Mai 4-5 2013, Gatineau, Quebec Canada, MeMea 2013 (Oral Communication)**

85. **M. F. Cascione, V. Vergaro, N. Denora, M. Franco, R. Rinaldi, and S. Leporatti** *"CAT microscopy: a novel tool for 3D cell investigation"* ***In: Book of Abstracts,*** **2nd Nano Institute Workshop 10-11 June 2013 (Poster Communication)**

86. **Viviana Vergaro, Yuri M. Lvov and Stefano Leporatti** *"Nanotechnology for Cancer Therapy"* ***In: Book of Abstracts,*** **2nd Nano Institute Workshop Modena 10-11 June 2013 (Poster Communication)**

87. **S. Leporatti, L. L. del Mercato, F. Baldassarre, M. Ferraro, V. Vergaro, and R. Rinaldi** *"Theranostic Polyelectrolyte Capsules for in vitro delivery and sensing"* ***In: Book of Abstracts,*** **2nd Nano Institute Workshop Modena 10-11 June 2013 (Oral Communication)**

88. **Serena Mancarella, Valentina Greco, Francesca Baldassarre and Stefano Leporatti** *"Nanoengineered Capsules and particles for Tumoral targeting of Polyphenols"* **Meeting Prin 2010-2011 NANO Molecular tEchnologies for Drug delivery NANOMED, Torino 17th -18th febbraio 2014 (Oral Communication)**

89. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi and Stefano Leporatti "***Novel multidrug model carrier for cancer cells treatment"* **"IT- Liver Meeting" and International Workshop" 3Dimensional Cell Cultures and Drug Discovery" Vienna (Austria), 27th -28thFebruary 2014 (Poster Communication)**

90. **Mf Cascione, D. Vergara, D. Latorre, M. Maffia, G. Maruccio, R. Rinaldi, S. Leporatti** *"Impact of E-caderin treatments on cancer cells – a CAT study"* **BioNanoMed 2014, 5th International Congress Nanotechnology, Medicine & Biology 26th - 28th March, Krems 2014 (Oral Communication)**

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91. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi and Stefano Leporatti** *"Encapsulation of Curcumin inside Carriers Doped with Poly(acrilyc acid)"* **BioNanoMed 2014, 5th International Congress Nanotechnology, Medicine & Biology 26th- 28th March, Krems 2014 (Poster Communication)**

92. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi and Stefano Leporatti** *"Control of Colloidal CaCO3 suspension during template fabrication by using biodegradable polymers"* **2nd International Basic and Applied Sciences (ABAS) AIN-Sokhna Egypt, 2nd -4th April 2014 (Oral Communication)**

93. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi, Bhavna Rani, Yuan Cao, Gianluigi Giannelli and Stefano Leporatti** *"LY2157299-Loaded Carriers Inhibiting Wound Healing in Hepatocellular Carcinoma"* **European Biotechnology Congress 2014, Lecce 15th -18th May 2014 (Oral Communication, Awarded as Third EBTN Best Oral Presentation)**

94. **Daniele Vergara, Marzia Ferraro, Anna Ferretta, MariaFrancesca Cascione, Loretta L. Del Mercato, Ross Rinaldi, Michele Maffia, Stefano Leporatti Angelo Santino, Tiziana Cocco, and Antonio Gaballo** *"Cytoskeletal alterations of parkin-mutant human primary fibroblasts"* **European Biotechnology Congress 2014, Lecce 15th -18th May 2014 (Poster Communication)**

95. **Mf Cascione and S. Leporatti** *"CAT (Confocal-AFM-TIRF) Microscopy 3D Investigation of Cells and Targeted Drug delivery"* **Fotonica 2014, Napoli 12th -14th June 2014 (Invited Oral Communication).**

96. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi, and Stefano Leporatti** *"Curcumin bio\nano-template for building layer by layer capsules"* **Nanomedicine Viterbo 2014, 17th -19th September 2014 (Oral Communication).**

97. **Nomany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi, and Stefano Leporatti** *"Polymeric Nanocarriers: from Production to Medical application"* **European Biotechnology Days, Cluj-Napoca/ Romania, 9 - 11 October, 2014 (Oral Communication).**

98. **Serena Mancarella, Valentina Greco, Francesca Baldassarre, Daniele Vergara, Michele Maffia and Stefano Leporatti** *"Polymer-Coated Magnetic Nanoparticles for Curcumin Delivery to Cancer Cells"* **NanotechItaly 2014, Venice 26th-28th November 2014 (Poster Communication)**

99. **Nemany A. Hanafy, Concetta Nobile, Maria Luisa De Giorgi, Ross Rinaldi, and Stefano Leporatti** *"Novel CaCO3 rods as templates for producing chitosan-polygalacturonic acid micro/nanotubes and to encapsulate bromopyurvic acid"* **NanotechItaly 2014, Venice 26th-28th November 2014 (Poster Communication)**

100. **Mariafrancesca Cascione, Daniele Vergara, Giuseppe Maruccio, Pasquale Simeone, Michele Maffia, Ross Rinaldi, and Stefano Leporatti** *"CAT (Confocal-AFM-TIRF) Microscopy as Novel Tool for E-Cadherin Knockdown Analysis in Cancer Cells"* **AFM BioMed Conference San Diego, December (13)14-17, 2014 (Oral Communication)**

101. **Mariafrancesca Cascione, Daniele Vergara, Marzia M. Ferraro, Loretta L. del Mercato, Tiziana Cocco, Ross Rinaldi, Antonio Gaballo and Stefano Leporatti** *"Parkin affects the biomechanical properties of human fibroblasts: a CAT*

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microscopy study" **AFM BioMed Conference San Diego, December (13)14-17, 2014 (Oral Communication)**

102. **Mariafrancesca Cascione, Ross Rinaldi and Stefano Leporatti "***CAT (Confocal-AFM-TIRF) Microscopy: 3D Investigation of Cells and Targeted Drug delivery"* **Bruker 1st AFM Bruker User Meeting Milan (Italy), 24th -25th February 2015 (Oral Communication)**

103. **Chiara Dionisi, Nemany A.N. Hanafy, Concetta Nobile, Marialuisa De Giorgi, Ross Rinaldi and Stefano Leporatti "***HALLOYSITE CLAY NANOTUBES FOR DELIVERY OF CURCUMIN"* **Meeting PRIN NanoMed, Bologna (Italy), 23th -24 April 2015 (Oral Communication)**

104. **CHIARA DIONISI, NEMANY HANAFI, CONCETTA NOBILE, MARIALUISA DE GIORGI, ROSS RINALDI and STEFANO LEPORATTI** *"HALLOYSITE CLAY NANOTUBES AS CARRIERS FOR DELIVERY OF CURCUMIN "* **AMAM 2015 Castellaneta Marina (TA), (Italy), 7th -12th June 2015. (Oral Communication)**

105. **Chiara Dionisi, Nemany A.N. Hanafy, Viviana Vergaro, Yuri M. Lvov and Stefano Leporatti** *"Halloysite Clay Nanotubes as Novel Carriers for Drug Delivery"* **Euroclay 2015, Edingburgh 6th -10th July 2015 (Keynote Talk)**

106. **Chiara Dionisi, Nemany A.N. Hanafy,Concetta Nobile, Maria Luisa de Giorgi, Ross Rinaldi, Sergio Casciaro, Yuri M. Lvov and Stefano Leporatti** *" Halloysite Clay Nanotubes as Carriers for Curcumin Delivery"* **Nanofim 2015, Lecce (Italy) 24th -25th July 2015 (Oral Communication).**

107. **L. Blasi, S. Leporatti, I.E.Palamà, A. Quarta** *"Micro and Nanosystems for Biomolecular Delivery"* ***Workshop Materials and Technologies for HEALTHCARE and BIODIAGNOSTICS at CNR-NANOTEC*** **(Oral Communication).**

108. **Stefano Leporatti** *"Nanocarriers for Nanomedicine Drug Delivery"* ***Nanoscience and Nanotechnology 2015 Laboratori Nazionali of INFN, Frascati 28th September-2nd October 2015, Frascati (Rome) (Invited Talk).***

109. **Mariafrancesca Cascione, Ross Rinaldi and Stefano Leporatti** *"CAT (Confocal-AFM-TIRF) Microscopy: a Novel Tool for 3D Investigation of Cells"* **Italian Conference on Condensed Matter Physics (FISMAT 2015) Palermo September 28-October 2, 2015. (Oral Communication).**

110. **Mf. Cascione S. Leporatti and R. Rinaldi** *"Role of E-Cadherin in Cancer Cells progression: CAT (Confocal-AFM-TIRF) Microscopy analysis"* **School of Nanomedicine Bari 2nd -4th December 2015 (Poster Communication).**

111. **Nemany A.Hanafy, Marzia Maria Ferraro, Antonio Gaballo, Luciana Dini, Vittorianna Tasco, Concetta Nobile1 Maria Luisa De Giorgi, Sonia Carallo, Ross Rinaldi and Stefano Leporatti** *"Fabrication and Characterization of ALK1fc-Loaded Fluoro-Magnetic Nanoparticles Rods for Inhibiting TGF ß1 in HCC."***School of Nanomedicine Bari 2nd -4th December 2015 (Poster Communication).**

112. **Chiara Dionisi, Nemany Hanafy, Viviana Vergaro, Yuri M. Lvov, Stefano Leporatti** *"Halloysite Clay Nanotubes as Novel Carriers for Polyphenols Deliverying"* **ACS meeting 13th -17th March 2016, S. Diego (USA) (Oral Communication).**

113. **Nemany A. N. Hanafy, Alessandra Quarta, Riccardo Di Corato, Luciana Dini, Concetta Nobile,Maria Luisa De Giorgi, Vittorianna Tasco, Sonia Carallo, Mariafrancesca Cascione, Rosaria Rinaldi, Isabel Fabregat and Stefano Leporatti** *"ENCAPSULATION OF SHT-DNA, SIRNA AND POLYPEPTIDE -17 INSIDE HYBRID*

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POLYMERIC NANO-PROTEIN FOLIC ACID (HPNP-FA) CARRIER AS TARGETED TGFB INHIBITOR FOR HEPATOCELLULAR CARCINOMA" **(ePoster and Poster paper Communication,** @ EASL Conference, Barcelona 13th-17th April 2016**.; Awarded by Nemany A. Hanafy ILC Bursary Registration).**

114. **N.A.N. Hanafy, A. Quarta, M.M. Ferraro, A. Gaballo, L. Dini, C. Nobile, M.L. De Giorgi, S. Carallo, C. Citti, G. Cannazza, A.L. Capodilupo, G. Ciccarella, R. Rinaldi, G. Giannelli,** and **S. Leporatti** "*Polymeric Nano-micelles as Novel Tools for LY2157299 Cancer Cells Delivery*" 50th Annual Scientific Meeting of the European Society for Clinical Investigation (ESCI) Paris, France 27-29 April 2016 **(Oral Communication).**

115. **Cinzia Buccoliero, Dario Consolante, Francesco Dituri, Serena Mancarella, Nemany Hanafy, Angelo Mancinelli, Paolo Trerotoli, Stefano Leporatti, Claudio Pisano, Gianluigi Giannelli** "*A TGF-B RECEPTOR I KINASE INHIBITOR, GALUNISERTIB (LY2157299) INHIBITS HEPATOCELLULARCARCINOMA PROGRESSION IN IN VIVO EXPERIMENTAL MODELS*" (**ePoster Communication,** @ EASL Conference, Barcelona 13th-17th April 2016).

116. **Nemany A.Hanafy, Marzia Maria Ferraro, Antonio Gaballo, Luciana Dini, Vittorianna Tasco, Concetta Nobile, Maria Luisa De Giorgi, Sonia Carallo, Ross Rinaldi and Stefano Leporatti** "*Fabrication and Characterization of ALK1Fc-Loaded Fluoro-Magnetic Nanorods for inhibiting TGF ß1 in Hepatocellular Carcinoma (HCC)*" Nanomedicine Congress Viterbo 2016, Viterbo 21-23 September 2016 **(Poster Communication, accepted).**

117. **Nemany A. Hanafy, Alessandra Quarta, Ricardo Di Corato, Luciana Dini, Concetta Nobile, Maria Luisa De Giorgi, Sonia Carallo, Mariafrancesca Cascione, Ross Rinaldi, Isabel Fabregat and Stefano Leporatti** "*Hybrid Polymeric-protein nano-carriers (HPPNC) for targeted delivery of TGFß inhibitor to hepatocarcinoma cells*" Nanomedicine Congress Viterbo 2016, Viterbo 21-23 September 2016 **(Poster Communication, accepted).**

118. **Stefano Leporatti** *"Polymeric Nano-carriers as novel tools for TGF-ß inhibitors delivery to Cancer Cells"* International Workshop, Nano-Oncology: Chemistry meets Bio, IRCCS" Istituto Tumori Giovanni Paolo II-Bari" Bari 12th -13th December 2016 **(Contributing Talk**).

119. **Nemany A.Hanafy , Marzia Maria Ferraro , Antonio Gaballo Luciana Dini Vittorianna Tasco, Concetta Nobile , Maria Luisa De Giorgi, Sonia Carallo, Ross Rinaldi and Stefano Leporatti** "*Fabrication and Characterization of ALK1Fc-Loaded Fluoro-Magnetic Nanorods for inhibiting TGF ß1 in Hepatocellular Carcinoma (HCC)*." Materials 2016, Sheraton Catania Hotel Aci Castello (Catania) 12th-16th December 2016 **(Poster Communication, accepted).**

120. **Nemany A. Hanafy, Alessandra Quarta, Ricardo Di Corato, Luciana Dini, Concetta Nobile, Maria Luisa De Giorgi, Sonia Carallo, Mariafrancesca Cascione, Ross Rinaldi, Isabel Fabregat and Stefano Leporatti** "*Hybrid Polymeric-Protein Nano-Carriers (HPPNC) for targeted delivery of TGFß inhibitor to hepatocarcinoma*

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cells" **(Oral Communication, accepted).** Materials 2016, Sheraton Catania Hotel Aci Castello (Catania) 12th-16th December 2016.

121. **M. Ambrico, L. Blasi, F. Calabi, G. Cicala, L.L. del Mercato, A. De Giacomo, S. Leporatti, I.E. Palamà, A. Quarta, V. Vergaro, A. Zacheo "**MUltifunctional TherANostic NanosysTems for mEdicine (MUTANTE)" (**Contributing Talk**). **II CNR Nanotec Institute Meeting**, Hotel S. Michele 3rd-4th May 2017 Cetraro (CS) Italy.

122. **Stefano Leporatti** "*Halloysite Clay Nanotubes as Nanobazooka for Drug delivery*" **225thACS Meeting 18th-22nd March 2018, New Orleans (USA) (Oral Communication).**

123. **Stefano Leporatti** "*Halloysite Clay Nanotubes: Nanobazookas for Drug delivery*" ***TNT 2018 Conference - Trends in Nanotechnology Conference,* 03-07 September 2018** *Lecce (Italy)* **(Oral Communication, accepted).**

124. **Stefano Leporatti** "*Halloysite clay nanotubes: nano-bazookas for drug delivery*" ***Materials 2018, Bologna 22nd-26th October 2018* (Oral Communication).**

125. **Stefano Leporatti** "*Halloysite clay nanotubes as nano-bazookas against cancer*" **Workshop on Technology Transfer in Nanotechnology, Lecce 18-19 October 2018 (Poster Communication).**

126. **E. Panzarini, B.A. Tenuzzo, S. Mariano, Nemany A.N. Hanafy, A. Quarta, S. Leporatti, L. Dini** "*Therapeutic effect of polymeric nano-micelles formulation of galunisertib (LY2157299) on CCl4-induced liver fibrosis in rats*" Proceedings of the ***65th Congress of the GEI - Italian Society of Development and Cell Biology (GEI-SIBSC) 38th Congress of the Italian Society of Histochemistry (SII) 24-27 June 2019, Polo Villarey, Ancona, Università Politecnica delle Marche*** **(Oral Communication)**.

127. **Francesca Persano, Concetta Nobile, Giuseppe Gigli and Stefano Leporatti** "Calcium carbonate nanoparticle as promising theranostic system: tuning the physical-chemical properties" ***EDGE-Tech: Emerging and Disruptive next-GEneration Technologies for POC online workshop @CNR Nanotec -Istituto di Nanotecnologia, Lecce (Italy) 26th-27th October 2020*** **(e-Poster Communication).**

128. **Elisa Panzarini, Stefano Leporatti, Bernardetta Anna Tenuzzo, Alessandra Quarta, Nemany A. N. Hanafy, Gianluigi Giannelli, Camilla Moliterni, Diana Vardanyan, Carolina Sbarigia, *Stefano Tacconi, Marco Fidaleo, Luciana Dini*** *"Polymeric nanomicelles formulation of LY2157299-Galunisertib improves therapeutic outcome by greater reducing fibrosis and ameliorating fatty degeneration in a CCL4-induced hepatic- fibrosis rat-model"* **International Liver Congress 2022 (London, 22-26 June 2022) (Poster Communication).**

129. **Francesca Persano and Stefano Leporatti** *"Nanoparticle-based Drug Delivery in Cancer Therapy"* ***Workshop "CNR Nanotec meets CRT MERLN"* 29.09.2022-30.09.2022, @ CNR Nanotec Lecce (Italy). (Oral Communication).**

130. **Stefano Leporatti** *"Atomic Force Microscopy as Diagnostic Tool in the War Against Cancer: Overview and Insight in the Future"* **NANO In BIO 2024 (4th Edition) Le Goisier, Guadeloupe (French Caribbean) 14-20 April 2024. (Oral Communication)**.

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131. **Stefano Leporatti** *"Bio-hybrid atomic force microscope as weapon against cancer: A dive into the future."* **110°** Congresso Nazionale Società Italiana di Fisica, **Bologna 9th - 13th September 2024 (Oral Communication).**

132. **Stefano Leporatti** *"Inorganic Nanocarriers for Cancer Therapy"* **111° Congresso Nazionale Società Italiana di Fisica, Palermo 22th -26th September 2025 (Oral Communication).**

133. **Stefano Leporatti** "Starting as "*Personal Taxi-Driver*" *going towards the new LEP (Bio-Ibrid-AFM): A Dive into the Future following Giacinto's Teachings"* International Center for Theoretical Physics (ICTP), **A symposium to celebrate his scientific journey "Giacinto Scoles:The scientist, the man" Trieste, 17-19 November 2025 (Oral Communication)**.

Invited Talks:

1. " *Ultrathin Polyelectrolyte Multilayer Capsules Texture: a Scanning Force Microscopy (SFM) and Confocal Laser Scanning Force Microscopy (CLSM) study* **"December, 11th 2000, Department of Microelectronics & Nanoscience Liquid Crystal Physics Chalmers, University of Technology & Goteborg University S - 412 96, Goteborg, Sweden.**

2. " *Nanostructures, stability, and mechanical properties of Layer-by-Layer Assembled Polyelectrolyte Multilayer Capsules* " **December, 21th 2000 University of Genoa, Department of Physics, Via Dodecaneso, 33, 16146 Genoa (Italy).**

3. **Stefano Leporatti, Sergio E. Moya, Guido Koehler, Christian Bitterlich, Martin Fischlechner, Edwin Donath, Ross Rinaldi** *" Lipid layers for Biocomposite Colloids _Novel Devices with Biological Function "* **Nanomech-06, Materials Science and Materials Mechanics at the Nanoscale, Bari 19-23 November 2006.**

4. **S. Leporatti, V. Arima, G. Maruccio, L.L. del Mercato, E. Primiceri, A. Antonaci, V. Frascerra, N. Sgarbi, A. Aloisi, F. Calabi, R. Cingolani. R. Rinaldi** " *SPM characterization of self-assembled materials for nano-biotechnology applications"* **Veeco Italian User Meeting, University of Milan Bicocca 15 -16 May 2007.**

5. **Stefano Leporatti, Daniele Vergara, Antonella Zacheo, Viviana Vergaro, Giuseppe Maruccio, Roberto Cingolani and Ross Rinaldi.** *" Cytomechanical and topological investigation of cancer cells by Scanning Force Microscopy (SFM) ".* **March 12th 2008, Consiglio Nazionale delle Ricerche (CNR)-Istituto di Microelettronica e Microsistemi (IMM), Stradale Primosole 50, 95121 Catania (Italy) Veeco Meeting 2008 *" Morphological-Functional Characterisation and Surface Modification by Probe Microscopy "***

6. **Stefano Leporatti, Antonella Zacheo, Daniele Vergara, Viviana Vergaro, Giuseppe Maruccio, Yuri M. Lvov, Roberto Cingolani and Ross Rinaldi** *"Engineering microenvironment by layer-by-layer biocomposite films for breast cancer cells-controlled growth: Morphostructure and cytomechanics study".* **Division of Polymeric Materials: Science and Engineering Symposium"Nanoassembly - From**

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Fundamentals to Applications"August 17-21, 2008, Philadelphia, PA, 236th American Chemical Society Meeting

7. **S. Leporatti** "*Engineering Micro\Nano environment by Layer-by-Layer Biocomposites for Cancer Cells Controlled Growth: Morphostructure and Cytomechanics Study*" 4th December 2008 Ruston, Institute for Micromanifacturing, Lousiana Tech University, Ruston (Lousiana).

8. **Viviana Vergaro, Zhiguo Zheng, Elshad Abdullayev, Yuri M. Lvov, Giovanna Giovinazzo, Angelo Santino, Roberto Cingolani, Ross Rinaldi and Stefano Leporatti** "*Nanocarriers for Cancer Therapy*" **Oporto (Portugal) Engineering Department of Porto University, 12th October 2009 Oporto (Portugal).**

9. **Viviana Vergaro, Zhiguo Zheng, Elshad Abdullayev, Yuri M. Lvov, Giovanna Giovinazzo, Angelo Santino, Roberto Cingolani, Ross Rinaldi and Stefano Leporatti** "*Nanotechnology for Cancer Therapy: Cytomechanical Changes induced by Drug-loaded Carriers Uptake by Neoplastic Cells*". **Max Planck Institute of Colloids and Interfaces SummerSchool, Albufeira (Portugal) October 4th-11th 2009.**

10. **S. Leporatti** *"Polyelectrolyte MicroCapsules and Halloysite NanoTubes as Carriers for Sustained Drug Delivery*" **Istituto Nazionale Tumori**, **Milano 29th January 2010.** http://www.rai.tv/dl/RaiTV/programmi/media/ContentItem-b1b45e45-8bcf-47d1-b0ef-837f4c01dcf0.html?p=0

11. **S. Leporatti** *"Nanotechnology for Cancer Therapy: NanoCarriers and BioMechanics*" **Centro Ricerche Medicina Sperimentale, Laboratorio Immunologia dei Tumori, Università di Torino** (Ospite **Franco Novelli**), **Turin 1st of March 2010**. (dott-mm.campusnet.unito.it/corsi/corsi.pdf).

12. **Viviana Vergaro, Elshad Abdullayev, Andre Zeitoun, Giovanna Giovinazzo, Angelo Santino, Roberto Cingolani, Yuri M. Lvov and Stefano Leporatti** *"Halloysite Nanotubes and Nanocolloids: High payload drug nanocarriers* " **Particles 2010 Lake Buena Vista, Orlando, FL (USA) May 22-25, 2010.** (http://nanoparticles.org/Particles2010/)

13. **Viviana Vergaro, Xingcai Zhang, Yuri M. Lvov, and Stefano Leporatti** "*Nanocarriers for Cancer Therapy*" **Christmas Workshop 2010, Dipartimento di Fisica dell'Università di Genova 23th December 2010.** (http: //www.fisica.unige.it/vattuone/II_Christmas_workshop.html).

14. **Viviana Vergaro, Elshad Abdullayev, Yuri M. Lvov and Stefano Leporatti** "*Halloysite Nanotubes: Novel Carriers for Cancer Therapy*" **241th ACS National Meeting, Anaheim, CA,(USA) March 27-31, 2011; Clay / polymer composites: from nanoplates to nanotubes. Symposium.** (http://pmse.sites.acs.org/meetings.htm)

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15. **Viviana Vergaro, Zhiguo Zheng, Xingcai Zhang, Giuseppe Maruccio, Yuri M. Lvov, and Stefano Leporatti** *"Nanotechnnology for Cancer Therapy: Nanocarriers and Cytomechanics"* **Second World Conference on Nanomedicine and Drug Delivery (WCN-2011) March 11, 12 and 13, 2011 Kottayam, Kerala, India**.

16. **Viviana Vergaro, Xingcai Zhang, Yuri M. Lvov, Claudia Bellomo, Daniele Vergara, Michele Maffia, Francesca Baldassarre, Gianluigi Giannelli and Stefano Leporatti** *"Nanotechnology for Cancer Therapy: Nanocarriers and Cytomechanics"*
Centre for Integrative Biology (CIBIO), University of Trento, Mattarello (Trento) 14th April 2011.

17 **Paride Papadia, Giuseppe Ciccarella, Viviana Vergaro, Giovanna Lucarelli and Stefano Leporatti** "Biopolymeric Carriers for Nanomedical Applications" **Biopolymers: Structure and Dynamics. A Biophysical Workshop, Brno (Checzh Republ), 21th-23th October 2011**.

18 **Stefano Leporatti** *"NANOTECHNOLOGY FOR CANCER THERAPY: WHERE WE ARE AND WHERE WE ARE GOING"* **13th January 2011, Department of Physics, University of Milan (Italy).**

19 **Stefano Leporatti** *"Nanotecnologia contro il Cancro: dove siamo e dove stiamo andando"* **Nanotech Festival 2012, Colleretto Giacosa, 19th April 2012 (in Italian Language).**

20 **Stefano Leporatti** *"In the Living cell investigations Using AFM and CLSM Application to the Sciences"* **Invited Workshop with Lectures and Lab experiences Nanoscopy Science center (NSC) Kuwait University, Faculty of Science, Kuwait City, Kuwait 22th-24th April 2012.**

21 **Stefano Leporatti** *"Nanotechnology against Cancer: where we are and where we are going"* **Max Planck Insitute of Colloids and Interfaces, Postdam (Germany) 18th July 2012.**

22 **Stefano Leporatti** *"Nanotechnology for Cancer Therapy: where we are and where we are going"* **University of Leipzig, Institute of Medical Physics and Biophysics Leipzig (Germany) 20th July 2012.**

23 **Stefano Leporatti** *"La dimensione NANO in Medicina"* **Scuola Annuale GNB "*Approccio integrato per la medicina rigenerativa*" Bressanone (TN) 16th-20th September 2013 (*Lectio Magistralis*).**

24 **Stefano Leporatti** *"Nanotechnology and new biotechnologies"* **VI M.O.M.T. SCIENTIFIC WORKSHOP ON "MULTIDISCIPLINARY TEAM MANAGEMENT OF ONCOLOGICAL PATIENTS" October 2013, 11-12 Centro Congressi – Grand Hotel Costa Brada, Gallipoli (Lecce), Italy.**

25 **Stefano Leporatti** "Nanomeccanica per la Nanomedina" **Scuola Nazionale SIOF- Seconda Scuola Nazionale di Biosensori Ottici e Biofotonica, Otranto 15th -20th September 2014 (Lezione ad Invito)**

26. **Mf. Cascione and S. Leporatti** *"CAT (Confocal-AFM-TIRF) Microscopy 3D Investigation of Cells and Targeted Drug delivery"* **Fotonica 2014, Napoli 12th -14th June 2014 (Invited Oral Communication).**

27. Stefano Leporatti *"Nanotechnology aganist cancer: from Drug Delivery to Cytomechanics"* **CNR-Istituto di Ottica Applicata (INOA), Pozzuoli (NA), 26th June 2014.**

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28. **Stefano Leporatti** *"Nanotechnology against cancer: from Drug Delivery to Cytomechanics"* **Methodist Research Institute Houston (USA) 20th October 2014.**
29. **Stefano Leporatti** " *Atomic Force Microscopy for Biological and Material Science Applications*" **Invited Workshop with two Lectures and Lab experiences Nanoscopy Science center (NSC) Kuwait University, Faculty of Science, Kuwait City, Kuwait 9th-11th March 2015.**
30. **Stefano Leporatti** *"Nanocarriers and Cytomechanics for Cancer Therapy"* ***VIII M.O.M.T. MEDITERRANEAN CONGRESS ON ONCOLOGICAL PATHOLOGY"*** **October 2015, 9-10 Centro Congressi – Grand Hotel Costa Brada, Gallipoli (Lecce), Italy.**
31. **Chiara Dionisi, Nemany A.N. Hanafy, Viviana Vergaro, Yuri M. Lvov and Stefano Leporatti** *"Halloysite Clay Nanotubes as Novel Carriers for Drug Delivery* **Euroclay 2015, Edingburgh 6th -10th July 2015 (Keynote Talk)**
32. **Stefano Leporatti** *"Nanocarriers for Nanomedicine Drug Delivery"* ***Nanoscience and Nanotechnology 2015 Laboratori Nazionali of Frascati INFN, 28th September-2nd October 2015, Frascati (Rome) (Invited Talk).***
33. ***Stefano Leporatti*** *"La Nanomedicina nella Terapia contro il Cancro"* **Giornata sul Tumore al Seno, Aula Magna Collegio Volta, Pavia, 20th November 2015. (Invited Lecture)**
34. **Stefano Leporatti** " *Polymeric Nano-carriers as novel tools for TGF-beta inhibitors delivery to HCC Cells*" **"TGF-beta family in fibrosis and cancer" IT-LIVER Final Conference Barcelona, 14-15, June, 2016. (Invited Talk).**
35. **Stefano Leporatti** *"Nano-carriers per il Delivery di Farmaci Antitumorali: Possibili Sviluppi in Radioterapia"* convegno: ***"Il Cyberknife e gli sviluppi terapeutici derivanti dall'aumento dell'accuratezza nell'irradiazione dei tessut***i" **Mater Dei Hospital, Bari (BA), 8th April 2017, (Invited Talk).**
36. **Stefano Leporatti** *"Polymeric Nano-carriers as novel tools for TGF-β inhibitors delivery to HCC Cells"* Leipzig University, Institute fur Medizinische Physik und Biophysik, **15th June 2017 (Invited Talk).**
37. **Stefano Leporatti** *"Nanomaterials for Biomedicine"*, Universitaet fuer Bodenkultur, (BOKU) University of Natural Resources and Life Science, Muthgasse 11, 1190 Wien (Austria) **29th January 2018 (Invited Talk).**
38. **Stefano Leporatti** "Nanocarriers for Nanomedicine" @Workshop "Ricerca e Nanomedicina" Dipartimento di Chimica, Università of Pavia, Viale Taramelli 12 Pavia **14th June 2018 (Invited Talk).**
39. **Stefano Leporatti** "Nanovectors for Nanomedicine" @Workshop "Nanotechnology-based research products: how to translate them into Nanomedicines", Pavia, 13-15 Luglio 2020 **14th July 2020 (Invited Talk).** (post-poned due to COVID pandemy).
40. **Stefano Leporatti** " Nanocarriers for Nanomedicine" @CNR Nanotec, Lecce, **28th April 2021 (Invited Webinar).**
41. **Stefano Leporatti** "Inorganic Nanocarriers for Cancer Therapy" @ Workshop di Ricerca e Nanomedicina, Pavia, **15th July 2021 (Invited Talk, as Webinar).**
42. **Stefano Leporatti** "Nanotrasportatori per Terapia Antitumorale" @Webinar Cycles "Tumore al Seno: Sconfiggerlo Con Nanosfere d'oro Intelligenti" Pavia, **30th June 2021 (Invited Webinar).**

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43. **Stefano Leporatti** "Starting as "Personal Taxi-Driver" going towards the new LEP (Bio-Ibrid-AFM): A Dive into the Future following Giacinto's Teachings" Trieste, 17-19 November, International Center for Theoretical Physics (ICTP), A symposium to celebrate his scientific journey "Giacinto Scoles:The scientist, the man" **(Invited Seminar).**

Outreach

Interviews and press release (Italian Language)

1. http://ansa.it/scienza/notizie/rubriche/tecnologie/2012/03/09/visualizza_new.html_129317457.html
2. http://bari.repubblica.it/cronaca/2012/03/08/news/il_cnr_vara_super_microscopio_in_3d_servir_a_svelare_tutti_i_segreti_delle_cellule-31179393/
3. http://www.cometta.it/zeiss/tg1.mp4 (**TG1 ore 20, confidential link**)
4. http://corrieredelmezzogiorno.corriere.it/lecce/notizie/cronaca/2012/9-marzo-2012/tumori-salento-arriva-catil-supermicroscopio-3d-200361174126 3.shtml
5. http://www.nano.cnr.it/upload/relpress/allegato/134.tif
6. http://www.nano.cnr.it/upload/relpress/allegato/135.tif
7. http://www.corriere.it/scienze_e_tecnologie/12_marzo_20/supermicroscopio-campanelli_6ed66ce8-71de-11e1-b597-5e4ce0cb380b.shtml
8. http://www.rai.tv/dl/RaiTV/programmi/media/ContentItem-a976e908-8c33-4a1c-aa12-e155eae3afaa-tgr.html#p=0 (**TG3 Regione Puglia minute14th**)
9. http://www.tgr.rai.it/dl/tgr/regioni/PublishingBlock-4d3a91af-a664-4722-84df-0bdae278da09.html?idVideo=ContentItem-4ee7fcf5-072f-495a-ac41-955cbc4f386f&idArchivio=Buongiorno (**TG3 Buongiorno Regione minute 23th**)
10. http://www.rai.tv/dl/RaiTV/programmi/media/ContentItem-98818790-cbae-4100-a59d-9c07a272287d.html (**TG Leonardo minute 4th**)
11. http://iunisa.unisa.it/podcast-16-0-6.html?tag=Stefano%20Leporatti&act=filter (**Radio Interview in the middle**)
12. http://medlinetv.org/home/index.php?option=com_content&view=category&layout=blog&id=9&Itemid=40(at **beginning-Medline TV-Radio Interview**)
13. http://www.rainews24.rai.it/it/video-gallery.php?newsid=145027&videoid=28249 (**Space Lab -Rainews-31th May 2012**)
14. http://www.youtube.com/watch?v=ODUod31rKpg&context=C44406dcADvjVQa1PpcFMDTe5dvqCwBI20lKLstNjT232yShDbZjY= (Nanotech Festival, Colleretto Giacosa, 19th April 2012)
15. http://www.belpaeseweb.it/archivio.asp (Anno XIV, n. 564, 16.05.2015) (**Cover Picture and Interview @ Pag. 6-7**).

Posters

Mariafrancesca Cascione, Daniele Vergara, Antonio Gaballo, Giuseppe Maruccio, Ross Rinaldi and Stefano Leporatti

"*Il Gatto che graffia la cellula: la Nanomeccanica per la Nanomedicina*"

Notte dei Ricercatori, Lecce 26th September 2014.

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Nemany Hanafy, Concetta Nobile, Maria Luisa de Giorgi, Ross Rinaldi, and Stefano Leporatti *"Nanocarriers per la Nanomedicina"* **Notte dei Ricercatori, Lecce 26th September 2014.**

Nemany Hanafy and Stefano Leporatti *"Nanopillole per la Terapia Antitumorale"* **Settimana della Cultura Scientifica, Nanotechnology Day, CNR Nanotec Istituto di Nanotecnologia, Lecce, 11th April 2017.**

Spin-off\Patents\Industrial Applications

Finalist: Start Cup Puglia 2010, "*Pharmacological Innovative Drug Tracking, (Pharmatracking)*"

Finalist: Nanochallenge and Polymer Challenge 2012 "*TARGETED DELIVERY OF NATURAL ANTI-NEOPLASTIC DRUGS THROUGH TAILORED NANO-ENCAPSULATION FOR ONCOLOGY APPLICATIONS*" **Team Innova Nano, Venice November 2012**

Finalist: From Lab to the Market @ Nanotechitaly 2013 *"HIGH-PAYLOAD AND BIOCOMPATIBLE NANOCAPSULES FOR DELIVERING PACLITAXEL TO CANCER PATIENTS"* **Team CUBE Labs Nano, Venice November 2013**

Workshops:

1) " *Minisimposium of Scanning Probe Microscope* " (III° Cycle Romand en Science Biologiques)
Istitute of Histology -Pèrolles- University of Friburg (Switzerland) 28th April 1993.

2) "*1st Digital Instruments Italian Users Meeting* " **(**Lot Oriel Italia)
Ospedale San. Raffaele Dibit **Milan (Italy) 4th July 1995.**

3) " *1st Digital Instruments German Users Meeting* " **(**Digital Instrument Gmbh, Mannheim**)**
Physics Institute of Hamburg University (Germany) April 1996.

4) " *2nd Digital Instruments German Users Meeting* " **(**Digital Instrument Gmbh, Mannheim**)**
Physics Institute of Münster University (Germany) February 1997.

5) *1st International Workshop "Scanning Probe Microscopy in Life Sciences"* (JPK Instruments Gmbh, Nanoechnology for Life Science)
University Clinik Charite' Medical Faculty of Humboldt University, Berlin 10th September 2002.

6)*"Picoforce- for special Applications of Force Spectroscopy in PicoNewton range"* (Veeco Instruments GmbH, Mannheim)
Max Planck Institute of Colloids and Interfaces, Golm (Potsdam), 9th October 2002.

7) *2nd International Workshop "Scanning Probe Microscopy in Life Sciences"* (JPK Instruments Gmbh, Nanotechnology for Life Science)

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University Clinik Charite' Medical Faculty of Humboldt University, Berlin 18th September 2003.

8) *3rd International Workshop "Scanning Probe Microscopy in Life Sciences"* (JPK Instruments Gmbh, Nanoechnology for Life Science)
University Clinik Charite', Medical Faculty of The Humboldt University, Berlin 13th October 2004.

9) *4th International Workshop "Scanning Probe Microscopy in Life Sciences"* (JPK Instruments Gmbh, Nanoechnology for Life Science)
University Clinik Charite', Medical Faculty of The Humboldt University, Berlin 13th October 2005.

10) 2M Strumenti-Veeco"*Caratterizzazione nanomeccanica quantitativa delle superfici tramite microscopia a sonda in scansione*" **Dipartimento di Chimica Università degli Studi di Bari 11th March 2010.**

11) 2M Strumenti-Veeco User Meeting 2010, Dipartimento di Fisica, Università della Sapienza di Roma, 16 September 2010.
12) 1° AFMeeting 2015: Incontro Utenti Italiani di Microscopia a Forza Atomica (AFM) **24-25 febbraio 2015 Bruker Italia srl –** Viale Vincenzo Lancetti 43, 20158 Milano.
13) "*Zeiss Microscopy Technology and Complete Correlative Workflow*" **@ CNR Nanotec c/o Campus Ecotekne-Via Monteroni Lecce - Wendsday 19th July 2017**.
14) "*Zeiss Microscopy Technology for Life Science and Complete Correlative Workflow*" **@ CNR Nanotec c/o Campus Ecotekne-Via Monteroni Lecce - 05-07 June 2018**.
15) *LeBiotec2019: Convegno scientifico dei giovani ricercatori "Ricerca e innovazione nelle Biotecnologie"* 26th september 2019 **–University of Salento, @ Biotechnology c/o Campus Ecotekne-Via Monteroni Lecce.**
16) *ICONS-A symposium on Colloidal Nanocrystals Fundamentals and Perspectives* 10-11 October 2019 **@ CNR Nanotec c/o Campus Ecotekne-Via Monteroni Lecce.**

Peer Reviewer (an average of about 20 reviews per year completed)
https://publons.com/researcher/880659/stefano-leporatti
Chemical Physics Letters (since 2001)
Acta Biomaterialia (since 2010)
Synthetic Metals (since 2001)
Langmuir (since 2009)
Nanotechnology (since 2009)
International Journal of Polymer Science (since 2009)
Journal of Biomechanics (since 2009)
Nanomedicine (Future Medicine) (since 2010)
ACS Nano (since 2012)
Science of Advanced Materials (since 2010)
Biomacromolecules (since 2010)
ACS Applied Materials and Interfaces (since 2013)
Expert Opinion on Drug Delivery (since 2010)
Bioinorganic Chemistry and Applications (since 2011)

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Journal of Colloid and Interface Science (since 2011)
Journal of Micromechanics and Microengineering (since 2011)
Current Drug Delivery (since 2012)
Colloids and Surface B: Biointerfaces (since 2012)
Journal of Physics D: Applied Physics (since 2012)
ISRN: Nanotechnology (since 2012)
Sensors (since 2012)
Chemical Engineering (since 2012)
Molecular Pharmaceutics (since 2012)
Current Pharmaceutical Design (since 2012)
Chinese J. of Chemistry (since 2012)
Macromolecular Bioscience (since 2012)
Material Research Bulletin (since 2013)
Drug Delivery Letters (since 2013)
Physical Chemistry Chemical Physics (PCCP) (since 2013)
Journal of Biomedical Materials Research: Part B - Applied Biomaterials (since 2013)
Applied Surface Science (since 2013)
Chemistry Today (since 2013)
Small (since 2012)
Current Opinion in Colloid and Interface Science (since 2013)
Journal of Microencapsulation (since 2013)
International Journal of Molecular Science (since 2013)
Nanocarriers (since 2013)
Advances in Colloid and Interface Science (since 2013)
Reports on Progress in Physics (since 2013)
Anti-Cancer Agents in Medicinal Chemistry (since 2013)
Nanotoxicology (since 2014)
Polymers (since 2014)
Therapeutic Delivery (since 2014)
J. Controlled Release (since 2014)
Macromolecular Rapid Communication (since 2014)
PloS One (since 2014)
Nanoscale (since 2015)
Environmental Science: Nano (since 2014)
Mini-Reviews in Medicinal Chemistry (since 2015)
Revista Mexicana de Fisica (since 2014)
Beilstein Journal of Nanotechnology (since 2015)
Journal of Nanobiotechnology (since 2015)
Polymer Bulletin (since 2015)
Colloids and Surfaces A (since 2015)
Membranes (since 2015)
Advanced Healthcare Materials (since 2015)
Current Medicinal Chemistry (since 2015)
Austin J. of Radiology (since 2015)
Bioengineering (since 2015)
Cancers (since 2015)
Nanomaterials (since 2015)

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Clay Minerals (since 2015)
Biomedicines (since 2016)
RSC Advances (since 2016)
International Journal of Molecular Sciences (since 2012)
Materials (since 2016)
Microscopy Research and Technique (since 2016)
Arabian Journal of Chemistry (since 2016)
Biomedical Materials (since 2016)
Molecules (since 2016)
Molecular Pharmaceutics (since 2012)
IEEE Transactions on Nanotechnology (since 2016)
Polymer Engineering & Science (since 2016)
Pharmaceutics (since 2014)
European Polymer Journal (since 2016)
Applied Science (since 2017)
Bioconjugate Chemistry (since 2016)
International Journal of Nanomedicine (since 2017)
NanoFutures (since 2017)
Journal of Nanomaterials (since 2017)
Current Drug Targets (since 2017)
Frontiers in Pharmacology (since 2017)
Frontiers in Molecular Biosciences, section Nanobiotechnology (since 2017)
Macromolecular Materials and Engineering (since 2017)
IMed Pub Journals-Translational Biomedicine (since 2017)
Recents Patents on Nanotechnology (since 2017)
Molecular Therapy-Nucleic Acids (since 2017)
Marine Drugs (since 2017)
Current Pharmaceutical Biotechnology (since 2017)
Metals (since 2017)
Gels (since 2017)
Nano-structures & Nano-objects (since 2017)
Current Nanomaterials (since 2017)
Current Nanoscience (since 2017)
Journal of Drug Delivery Science and Technology (since 2018)
Micro- and Nanotechnology books (Elsevier) (since 2018)
Journal of Material Science (since 2018).
Chemistry - An Asian Journal (since 2018)
Technologies (since 2018)
Nutrients (since 2018)
Journal of the Taiwan Institute of Chemical Engineers (since 2018)
Advanced Science (since 2018)
American Journal of Translational Research (since 2018)
Applied Clay Science (since 2018)
Journal of Nanostructures in Chemistry (since 2018)
Frontiers in Bioengineering and Biotechnology (since 2018)
ChemSusChem (Chemistry & Sustainability Energy & Materials) (since 2018)
Nanoscale Research Letters (since 2018)

ACS Omega (since 2019)
Micromaschine (since 2019)
Nanotoxicology (since 2019)
Biomechanics and Modelling in Mechanobiology (since 2019)
Nanotheranostics (since 2019)
Journal of Nanobiotechnology (since 2019)
Cells (since 2019)
Biocatalysis and Agricultural Biotechnology (since 2019)
Journal of the Mechanical Behaviour of Biomedical Materials (since 2019)
Drug design, Development and Therapy (since 2019)
Journal of Material Research and Technology (since 2019)
Journal of Pharmaceutical Analysis (since 2019)
International Journal of Biological Macromolecules (since 2020)
Chemistry Select (since 2020)
Investigative Radiology (since 2020)
Cancer Nanotechnology (since 2020)
Scientific Reports (since 2020)
Advanced Science (since 2020)
Clays and Clay Minerals (since 2021)
Micron (since 2021)
Bioinorganic Chemistry and Applications (since 2021)
Nanotechnology Reviews (since 2021)
The Chemical Record (since 2021)
Pharmacological Reports (since 2023)
Materials Today (since 2023)
Helyion (since 2023)
Drug and Chemical Toxicology (since 2023)
Italian Ministry of University and Research (MIUR) Referee (**Revisore MIUR)** (since 2012)
Programma per Giovani Ricercatori "Rita Levi Montalcini" (**Revisore Cineca**) (since 2015)
Fondo Crescita Sostenibile Ministero Sviluppo Economico, Referee (**Revisore FCS-MISE)** (since 2022)
National Science Centre, Poland (**Reviewer**) (Since 2015)
FCT - Fundação para a Ciência e a Tecnologia, (CNR Portughais) (**Project Referee,** since 2012)
American University of Beirut, Department of Chemistry, Faculty of Arts and Sciences, (**Project Referee**, since 2017).
National Center of Science and Technology Evaluation (NCSTE), Kazakhstan (**Project Referee**, since 2017).
Austrian Science Fund (FWF) (**Project Referee**, since 2017).
Deutsche Forschungsgemeinschaft (German Research Foundation) (**Project Referee**, since 2018).
Science Fund of the Republic of Serbia (**PROMIS Project Referee**, since 2019).
Spanish State Research Agency (**Biomedicine Sector Referee**, since 2020).

Society Member
American Chemical Society (ACS)
Italian Physical Society (SIF)

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Italian Biophysical Society (SIBPA)
German Physical Society (DPG)

Member of Editorial Board of **ISRN Biomedical Imaging** since 12/2012
Member of Editorial Board of **Frontiers in Molecular Biosciences** since 11/2013
Member of Editorial Board of **Frontiers in Bioengineering and Biotechnology** since 11/2013
Member of Editorial Board of **Frontiers in Materials** since 11/2013
Member of Editorial Board of **Scanning** since 05/2017
Member of Editorial Board of **Current Nanomaterials** since 03/2018
Member of Editorial Board of **International Journal of Molecular Sciences** since 03/2018 (2018-2020)
Member of Editorial Board of **Cancers** since 08/2018 (2018-2020)
Member of Editorial Board of **Polymers** since 06/2019 (2019-2021)
Member of Editorial Board of **Journal of Personalised Medicine** since 05/2020 (2020-2022)

Guest\Co-Guest Editor
- Special Issue in **Nanomaterials** entitled:
"Nanocolloids for Nanomedicine and Drug Delivery"
http://www.mdpi.com/journal/nanomaterials/special_issues/Nanocolloids_Nanomedicine.
(deadline 30 April 2018)
- Special Issue in **Cancers** entitled:
"Nanotechnology and Cancer"
http://www.mdpi.com/journal/cancers/special_issues/nanotechnology
(deadline 31 May 2018)
- Special Issue in **Polymers** entitled:
"Polymer Clay Nano-composites"
http://www.mdpi.com/journal/polymers/special_issues/polymer_clay_composites
(deadline 31 March 2019)
- Special Issue in **International Journal of Molecular Sciences** entitled:
"Biomechanics of Cell Membrane"
http://www.mdpi.com/journal/ijms/special_issues/biomechanics_cell_membrane
(deadline 15 November 2019)
- Special Issue in **Nanomaterials** entitled:
"Impact of Nanomaterials in Biological Systems and Applications in Nanomedicine Field"
(deadline 31 Nov 2021)
https://www.mdpi.com/journal/nanomaterials/special_issues/biological_nanomedicine
- Special Issue in **Frontiers in Bioengineering and Biotechnology** entitled:
"Functionalized Nanocarriers for Theranostics"
https://www.frontiersin.org/research-topics/11236/functionalized-nanocarriers-for-theranostics
(deadline 29 May 2020)
- Special Issue in **Polymers** entitled:
"Polymer Clay Nano-composites II"
https://www.mdpi.com/journal/polymers/special_issues/Polymer_Clay_Nano_composites_II
(deadline 31 May 2021)
- Special Issue in **Polymers** entitled:

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"Polymeric Nanocomposites as Nanomedicine Tools against Infectious Disease Outbreaks" https://www.mdpi.com/journal/polymers/special_issues/polym_nanocompos_nanomed (deadline 31 Aug 2021)
- Special Issue in **International Journal of Molecular Sciences** entitled: "Morpho-Mechanical Approach to Characterize the Neurodegenerative Progression" https://www.mdpi.com/journal/ijms/special_issues/morphomechanical_neurodegenerative (deadline 30 May 2022)
- Special Issue in **International Journal of Molecular Sciences** entitled: "Impact of Engineered Nanomaterials on Cell Mechanics" https://www.mdpi.com/journal/ijms/special_issues/nanomaterials_cellmechanics (deadline 30 May 2022)
- Special Issue in **Pharmaceutics** entitled: "Nanomedicine to Enhance Innate and Adaptive Anticancer Immunity" https://www.mdpi.com/journal/pharmaceutics/special_issues/nanomedicine_anticancer_immunity (deadline 30 April 2022)
-Special Issue in **International Journal of Molecular Sciences** entitled: "Molecular Advances in Cell Mechanics " https://www.mdpi.com/journal/ijms/special_issues/83IF9147BJ (deadline 20 October 2023)
-Special Issue in **Journal of Personalized Medicine** entitled: "Nanomedicine in Cancer Targeting and Therapy" https://www.mdpi.com/journal/jpm/special_issues/FE2OK7CX21 (deadline 31 October 2023)
-Special Issue in **Frontiers in Bioengineering and Biotechnology** entitled: "Functionalized Nanocarriers for Theranostics II" https://www.frontiersin.org/research-topics/41330/functionalized-nanocarriers-for-theranostics-volume-ii (deadline 28 July 2023)
-Special Issue in **Frontiers in Bioengineering and Biotechnology** entitled: "Advancements in Nanomedicine for Targeted Cancer Therapy and Imaging" https://www.frontiersin.org/research-topics/57115/cancer-nanoformulations?utm_source=F-RTM&utm_medium=TED1&utm_campaign=PRD_TED1_T1_RT-TITLE (Deadline 30 September 2025)
-Collection in **Discover Nano** entitled: "Advances in Nanoparticle-Mediated Drug Delivery for Cancer Therapeutics" https://link.springer.com/collections/fhgcadijgc (deadline 31 Januar 2026)
-Special Issue in **Cancers** entitled: "Research Advances in Cancer Nanomedicine**"** https://www.mdpi.com/journal/cancers/special_issues/55II2HX865 (deadline 1 April 2025).
-Special Issue in **Pharmaceutics** entitled:" Extracellular Vesicle-Based Delivery System for Cancer and Neurodegenerative Disease Treatment" https://www.mdpi.com/journal/pharmaceutics/special_issues/605L18FQTE (deadline 15 July 2026)
-Special Issue in **International Journal of Molecular Sciences** entitled: "Molecular Perspectives in Nanomedicine" https://www.mdpi.com/journal/ijms/special_issues/406EDUP847 (deadline 20 July 2026)
-Special Issue in **Cancers** entitled: "Smart Nanotechnology for Drug Delivery in Cancer Therapy" https://www.mdpi.com/journal/cancers/special_issues/84E5HZIYM4 (deadline 30 August 2026).

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-Special Issue in **Journal of Personalized Medicine** entitled: Nanocarriers for Targeted Cancer Therapy in Personalised Nanomedicine" https://www.mdpi.com/journal/jpm/special_issues/TG7GO15DJR (deadline 25 April 2026)

Autorizzo il trattamento dei miei dati personali contenuti in questo curriculum ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 (Legge 675/96) "Codice in materia di protezione dei dati personali".

Lecce, 11th March 2026 Stefano Leporatti