

PERSONAL INFORMATION

Roberto Eggenhöfner



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Sex M | Date of birth 06/04/1952 | Nationality Italian

DEGREE

Doctor in Chemistry – cum laude – in February 1977

WORK EXPERIENCE

Associate professor of Applied Physics since 2001 – “Conferma in ruolo” in 2005

“Ricercatore Universitario” since November 1980 – “conferma in ruolo” in 1984 for the Physics of Matter

CNR Fellowship in Theoretical Physics - June 1977- October 1980

from 2009 to present

Physicist

Dipartimento di Scienze Chirurgiche e Diagnostiche Integrate (DISC) Università di Genova
Corso Europa 30 16132 GENOVA

Head of the Research Group in Medical Biophysics of DISC
Laboratory management in biophysics
Biosensors – Nanogravimetry – Cyclic Voltammetry
Nanoparticles applications in polymers

2009

from 1996 to

Physicist

Dipartimento di Fisica
Via Dodecaneso 33 16146 GENOVA

Head of Research Projects of the Italian Institute for the Physics of Matter (INFM) and of the CNR Center for the Physics Surfaces and of Low Temperatures – CFSBT
Laboratory management in Low Temperature Physics.
Noise measurements and models.
High Temperature Superconductivity.

1996

from 1984 to

Physicist

Dipartimento di Fisica
Via Dodecaneso 33 16146 GENOVA

Head of GNSM/CNR projects in the fields of intermediate valence in rare earths intermetallics, of Heavy Fermion in rare earth and uranium systems, Photoemission Spectroscopy and Synchrotron radiation applications for the study of physical properties of intermetallics.

EDUCATION AND TRAINING

1980

Student at the Royal Holloway College University of London

Laboratory for the Computer Simulations in Solids (prof. K.Singer) – Development of interatomic force models in solids

from 1978 to 1980

Student at the International School “Enrico Fermi” in Varenna

SIF – Società Italiana di Fisica – prof van Kranendonk

1978

Student at the Theoretical Physics Department of the University of Oxford

Supervisor Prof. Fausto Fumi – Interatomic potentials – Ionic sizes – dynamical force models

PERSONAL SKILLS

Organisational skills and competences

Large experience in team and project management in the INFM and CNR Institutions and in the medical school and for PRIN competitions

Large experiences in the teaching of experimental physics in science and medical faculties

Skilled in development of measurement instrumentation, cryogenics, sensors applications

Computer skills and competences

- LabView – National Instruments
- Microsoft Word, Microsoft PowerPoint, Adobe Acrobat
- Database: SigmaPlot -, Microsoft Excel -
- PhotoEditing: Adobe PhotoShop
- PC Operation Systems: DOS - Windows since 98 - Windows 7
- - MOODLE - Aulaweb

ADDITIONAL INFORMATION

-Member of the Scientific Board of the magazine Comparative Effectiveness Research.

-Referee of many magazines in the field of Biophysics and High Temperature Superconductivity.

CURRENT TEACHING

-Applied Physics for Odontoiatria e Protesi Dentaria

-Medical Physics for Professioni Sanitarie

Medical Physics for Scienze Infermieristiche

-Medical Physics for Scienze Motorie

-Applied Physics for the Scuola di Specializzazione in Medicina Preventiva

-Mechanics of Rigid Body Corso di laurea in Fisioterapia e Podologia

Recent Scientific Publications since 2010

- Sacco R, Antonucci M, Bresci G, Corti A, Giacomelli L, Mismas V, Rainieri M, Romano A, Eggenhöfner R, Giacomelli L. **Novel fillers for dental composites**
- Maramaldi G, Togni S, Pagin I, Giacomelli L, Cattaneo R, Eggenhöfner R, Burastero S. **Sooty carbon black as filler for dental composites**
- F. Franceschi, F. Feregalli, S. Togni, U. Cornelli, L. Giacomelli, R. Eggenhöfner, G. Belcaro. **A novel photoinitiator for dental composites**
- Marco Salerno, Patrizia Loria, Giunio Matarazzo, Francesco Tomè, Alberto Diaspro, and Roberto Eggenhöfner. **Novel fillers for dental composites**
- Sacco R, Conte C, Marcegaglia S, Mismas V, Bresci G, Romano A, Eggenhöfner R, Giacomelli L. **Novel fillers for dental composites**
- R. Eggenhöfner, T. Terencio, R. Spera, P. Ghisellini, C. Rando, L. Giacomelli. **Innovative fillers for dental composites**

- Sacco R, Giacomelli L, Eggenhöfner R. **Transarterial radioembolization (TARE) for hepatocellular carcinoma: a review.** Accepted for publication in the Journal of
- Eugenio Sorrenti, Luca Giacomelli, Roberto Eggenhöfner, Stefano Benedicenti. Comparative Effectiveness of Transarterial Radioembolization (TARE) and Surgical Resection for Hepatocellular Carcinoma. *Journal of Clinical Oncology* 2015;33:1797-1804.
- Stefano Togni, Giada Maramaldi, Martino Meneghin, Luca Giacomelli, Roberta Cattaneo, Roberto Eggenhöfner. **Salivary cortisol levels in patients with hepatocellular carcinoma: a pilot study.** *Journal of Cancer Research and Clinical Oncology* 2015;141:100-105.
- P. Loria, G. Matarazzo, R. Spera, P. Ghisellini, C. Rando, E. Grasselli, R. Fabbri, L. Canesi, R. Eggenhöfner. **Salivary cortisol levels in patients with hepatocellular carcinoma: a pilot study.** *Journal of Cancer Research and Clinical Oncology* 2015;141:100-105.
- P. Loria, S. Ottoboni, L. Michelazzi, R. Giuria, P. Ghisellini, C. Rando, and R. Eggenhöfner. **Salivary cortisol levels in patients with hepatocellular carcinoma: a pilot study.** *Journal of Cancer Research and Clinical Oncology* 2015;141:100-105.
- S. Togni, G. Maramaldi, M. Meneghin, L. Giacomelli, R. Cattaneo, R. Eggenhöfner, S. Burastero. **Antiallergic and antioxidant properties of a lecithin-based delivery form of quercetin: an in vitro evaluation.** *Dermatological Experiences* 2015;17:97-101.
- P. Loria, P. Ghisellini, C. Rando, R. Giuria, D. Chiapperini, R. Eggenhöfner. **Quando lo stress fa bene- Considerazioni sullo stress positivo tramite valutazione**
- P. Loria, S. Ottoboni, P. Ghisellini, C. Rando, R. Giuria, I. Demori, & R. Eggenhöfner. **Is cortisol the marker of stress in patients with hepatocellular carcinoma?** *Journal of Cancer Research and Clinical Oncology* 2015;141:100-105.
- Adami M., Sallam S., Eggenhöfner R., Sartore M., Hainsworth E., LaBaer J., Nicolini C.: **Label-free Mass Spectrometry in Functional Proteomics and Nanotechnology-based Microarrays**, (Eds. Nicolini C., LaBaer J.) *Functional Proteomics and Nanotechnology-based Microarrays*, (Eds. Nicolini C., LaBaer J.) Pan Stanford Series on Nanobiotechnology, London - New York - Singapore, Volume 2, Chapter 6, pp. 109-120, 2010.

dell'andamento del cortisolo salivare nei nuotatori del tempo avverso (cimentisti invernali). - Capitolo 31 del libro "Stress e vita: La scienza dello stress e la scienza della salute alla luce della Psiconeuroendocrinologia", pp 421-426 F. Bottaccioli, Tecniche Nuove 2013 EAN: 9788848128544.

- Sartore M., Eggenhöfner R., Bezerra Correia Terencio T., Stura E., Hainsworth, LaBaer J., Nicolini C.: **Label-free detection of NAPPA via atomic force microscopy in Functional Proteomics and Nanotechnology-based Microarrays**, (Eds. Nicolini C., LaBaer J.) *Pan Stanford Series on Nanobiotechnology*, London - New York - Singapore, Volume 2, Chapter 6, pp. 109-120, 2010.

• Conference Paper

- **Nanotubi di TiO₂: innovative applicazioni nella scienza dei materiali dentali e nella ricostruzione postendodontica.** Paola Ghisellini, Grazia Lupoli, Katia Barbaro, Stefano Pagano, Giancarlo Barraco, Stefano Eramo, Rosanna Spera, Tercio Terencio, Saul Leonardo Torchia, Cristina Rando, Barbara Mazzolai, Roberto Eggenhöfner. *34° Congresso Nazionale SIE - Guardando al futuro – Bologna 5-7 Novembre 2015.*
- **Harnessing antibodies at an electrode surface: electrical control of IgG conformation and functional activity** Paola Ghisellini, Marialuisa Caiazza, Andrea Alessandrini, Roberto Eggenhöfner, Massimo Vassalli, Paolo Facci "Biophysics of Proteins at Surfaces" Madrid October 13-15 2015.
- **Morphological investigations on TiO₂ nanotubes in dental materials.** Rosanna Spera, Laura Pastorino, Tercio Terencio, Paola Ghisellini, Cristina Rando, Barbara Mazzolai and Roberto Eggenhöfner. Poster presentation. *Congresso NAMABIO COST – Venezia 25-27 Marzo 2015*
- **Effect of Nanohydroxyapatite on the in vitro growth of mesenchymal stem cells isolated from adipose tissue of dog.** K. Barbaro, F. Di Egidio, A. Amaddeo, A., F. Canonici, G. Barraco, G. Lupoli, C. Gallottini, R. Eggenhöfner, P. Ghisellini, C. Roncoroni, D. Amaddeo. Oral presentation: *Congresso NAMABIO COST – Venezia 25-27 Marzo 2015*
- **Cartilage Repair: study of in vitro differentiation of chondrocytes isolated from equine trachea.** K. Barbaro, F. Di Egidio, A. Amaddeo, A. F. Canonici, G. Barraco, G. Lupoli, C. Gallottini, R. Eggenhöfner, P. Ghisellini, C. Roncoroni, D. Amaddeo. *Congresso NAMABIO COST - Venezia 25-27 Marzo 2015*
- NANOSMAT Conference "9th International Conference on Surfaces, Coatings and Nanostructured Materials. Dublino 8-11 settembre 2014. **Detection of Antidepressant Drugs by Bio-device Based on Cytochrome P450**
- *Rosanna Spera, Paola Ghisellini, Laura Pastorino, Cristina Rando, Roberto Eggenhöfner.* NANOSMAT Conference "9th International Conference on Surfaces, Coatings and Nanostructured Materials. Dublino 8-11 settembre 2014. **Atomic Force Microscope Study of a Nanostructured Filler for Dental Resin.** P. Loria, T. Terencio, P. Ghisellini, C. Rando, R. Spera, M. Salerno, R. Eggenhöfner.

- The Academy of Dental Materials ADM 2014. Ottobre 8-11 Bologna. Poster **“New Nanostructured Odontoiatric Resins: Surface Roughness and Endocrine Disruptors Release”**.
- Workshop Nuovi approcci in Nanomedicina ed Ingegneria Tissutale. 27 settembre 2013 Napoli. Abstract. **“Biosensori e applicazioni ni nanoparticelle in polimeri”**.
- 5th European Congress for Integrative Medicine. 21-22 settembre 2012 Firenze. Poster **“Is cortisol the real indicator of adaptation syndrome? Can risks from physical exercise be predicted on the bases of nowadays knowledge?”**
- 1° Congresso Nazionale Società Italiana di Medicina dello Sport e dell'esercizio. 4-5 Novembre 2011 Firenze. Presentazione orale **“Considerazioni sullo stress positivo tramite valutazione dell'andamento del cortisolo salivare nei nuotatori del tempo avverso (cimentisti invernali)”**.
- Congresso internazionale di psiconeuroendocrinoimmunologia. 27-30 ottobre 2011 Orvieto. Presentazione orale **“Analisi dell'attività dell'asse neuro-endocrino indotte da eustress”** Poster **“Sviluppo di un biosensore per la determinazione del cortisolo salivare nello studio dell'attività dell'asse neuro-endocrino”**.