

Elena Maria Varoni

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H-Index (Scopus): 13

EDUCATION

- **November 2017-To date: Ricercatore a tempo determinato (RTD di tipo B), Assistant Professor (with clinical duties from January 2018) , Università degli Studi di Milano (Milano, Italy), Dipartimento di Scienze Biomediche, Chirurgiche ed Odontoiatriche.**
- **May 2013-October 2017: Post-doc Researcher, Università degli Studi di Milano (Milano, Italy), Dipartimento di Scienze Biomediche, Chirurgiche ed Odontoiatriche.** Project: "Multi-layer scaffold in chitosan for periodontal regeneration: multi-tissue, functional interface"
 - ✓ **3-23 May 2016: Visiting scholar at McGill University (Montreal, Canada), Department of Mining and Materials Engineering**
- **May 2012 - April 2013: Post-doc Researcher, McGill University (Montreal, Canada), Department of Mining and Materials Engineering.** Project: "Tissue engineering for periodontal regeneration"
- **November 2008-29 March 2012: Philosophy Doctor, PhD (in "Biotechnologies for Human Health"). Università del Piemonte Orientale "A. Avogadro" (Novara, Italy)**
 - ✓ **6 may-7 june 2011: Visiting scholar at Universidad de Granada (Granada, Spain), Laboratorio de Estudios Cristalográficos**
 - ✓ **13 luglio-13 agosto: Visiting scholar at University of Laval (Quebec City, Canada), Laboratory for Biomaterials and Bioengineering**PhD Dissertation: "Anti-cancer ternary nanoparticles with hydroxyapatite nanocrystals and monoclonal antibodies"
- **2003-4 july 2008: Doctor in Dental Medicine, DMD with highest honours (110/110 cum laude). Università degli Studi di Milano (Milano, Italy).** Thesis title: "Topical therapy with clobetasol in oral medicine: transmucosal absorption and systemic effects"

- **1998-2003: High school diploma** in classical studies **with full marks (100/100)**, **Liceo Classico “G. e Q. Sella” (Biella, Italy)**

PROFESSIONAL CERTIFICATE

- **2009-to date: Dental doctor** registered at “Albo professionale dei Medici e degli Odontoiatri” (national medical board) (Biella, Italy)

PATENT

- **2014: Co-inventor of the European patent:** “Manufacture of self-standing film useful in e.g. biosensor, involves carrying out electrochemical/electrophoretic deposition of macromolecules on working electrode, and removing self-standing film of variable and controlled thickness” (Owner: MILANO POLITECNICO (MILA-Non-standard) NEXTMATERIALS SRL (NEXT-Non-standard), N°: EP2845612)

AWARDS, HONOURS AND FELLOWSHIPS

Awards

- **2016: World Biomaterials Congress and Italian Society for Biomaterial (SIB) Trainee Award** at World Biomaterials Congress (Montreal - Canada, 17-22 May 2016), the most prestigious conference in biomaterials
- **2015: Travel Grant** to participate at **Hellenic Society of Biomaterials Conference** (Athens - Greece, 26-28 November 2015)
- **2015: Travel Grant** to participate at **Italian School of Biomaterials** (Ischia - Italy, 18-22 July 2015)
- **2015: Awards for the best oral presentation:** ALTOMARE L, BRIVIO E, BELLATTI P, VARONI E, RIMONDINI L, DE NARDO L. Cross-linked chitosan patches for topical oral drug delivery. Conference Proceedings: Italian Society of Biomaterials (SIB) Congress; Ancona, June 3-5, 2015
- **2014: Award for the best poster presentation:** VARONI E, COCHIS A, ALTOMARE L, CERRUTI M, DE NARDO L, LODI G, RIMONDINI L. Multi-tissue periodontal regeneration using a multi-layered approach. Conference Proceedings: Italian Society of Biomaterials (SIB) Congress; Palermo, 2-4 July 2014
- **2014: Certificate of merit as best young researcher** at Dipartimento di Scienze Biomediche, Chirurgiche ed Odontoiatriche (Università degli Studi di Milano, Italy)
- **2013: Awards for the best oral presentation:** VARONI E.M., XU J, COCHIS A, CHIN H, ALTOMARE L, LODI G, DE NARDO L, QUINN T, CARRASSI A, RIMONDINI L, CERRUTI M. Multi-tissue engineering: development of a multi-layered scaffold with functional interfaces. Conference Proceedings: Italian Society of Biomaterials (SIB) Congress; Baveno, 3-5 June 2013
- **2013: “Henry Goldman Prize” of the Società Italiana di Parodontologia (SIdP)** for the best basic research in periodontology (Conference Proceedings: SIdP Congress; Rimini, 14-16 March 2013), one of the most prestigious award in dentistry

- **2012: Certificate of merit as best poster presentation (ranked 3th):** ASTOLFI F, TRAPANI A, SUTERA S, MORICONI D, VARONI E, SARDELLA A (2012). Assorbimento topico del clobetasolo dopo trattamento topico. Conference proceedings: Congresso Università del Nord in collaboration with Collegio dei Docenti “Expo di Autunno”; Milano, 30 November -1 December 2012
- **2011: “Student THERMEC Award” at “THERMEC 2011 International Conference on Processing & Manufacturing of Advanced Materials”** (Quebec City - Canada, 29 July 2011 - 5 August 2011), prestigious international prize in biomaterials, awarded among more than 200 candidates
- **2010: “Young Scientist/Clinician Prize” of the European Association of Oral Medicine (E.A.O.M)** (EAOM Conference; London - UK, 23-25 September 2010), prestigious award in oral medicine

Honours

- **2018: Elected member of the Board “Young Scientific Forum – European Society of Biomaterials”** as National Chapter Liason Officer
- **2017: Elected member of the Scientific Committee “Osteonecrosis of the Jaws Contest – Società Italiana di Medicina e Patologia Orale”**
- **2014: Elected representing member of Post doc researchers** at Dipartimento Scienze Biomediche, Chirurgiche ed Odontoiatriche, Università degli Studi di Milano (Italy)
- **2008: Doctor in Dental Medicine Degree “cum laude”** at Università degli Studi di Milano (Italy)

Fellowships

- **2012: Travel fellowship CARIPLO;** project: “Development of a novel chitosan scaffold for periodontal regeneration functionalized with a nutraceutical agent”, at Università del Piemonte Orientale (Novara, Italy)
- **2012: Fellowship for the research project:** “Caratterizzazione di membrane per la rigenerazione tessutale del legamento parodontale graftate con molecole di origine naturale”, at Università del Piemonte Orientale (Novara, Italy)
- **2011: Fellowship for the research project:** “Caratterizzazione biologica di materiali per la biomineralizzazione”, at Università del Piemonte Orientale (Novara, Italy)
- **2008: Ministerial Fellowships for PhD financial support “Sostegno giovani”** (3 years)

EDITORIAL POSITIONS

- **2017-to date: Member of the Editorial Board of Medicine**
- **2015-to date: Section Editor of the Journal of Applied Biomaterials and Functional Materials** indexed in Medline / PubMed, Journal Citation Reports, Scopus (Impact Factor: 0.9)
- **2014-to date: Guest Associate Editor of Frontiers in Nutrition; co-organizer of the**

“Scientific Research Topic” in : “Mediterranean Diet and Health”

- **2013-to date: Associate Editor of European Journal of Medicinal Plants**

REFEREE POSITIONS

- **2017- to date:** Selected **Reviewer** in support to “Oral microbiome in Oral Medicine” research group, at “**VII World Workshop in Oral Medicine (WWOM)**” in Gothenburg (Sweden), September 2018
- **2009-to date: Referee** for relevant scientific journal in medicine, biomaterials, biology and nutrition, including: Medicine, Journal of Dental research, British Journal of Dermatology, Archives of Oral Biology, Acta Odontologica Scandinavica. In particular, referee for **Journal of Dental Research (JDR)**, at top of the ranking of impacted dental journals (Referee Scientific merit: <http://idr.sagepub.com/content/93/12/1332.full.pdf+html>)
- **2014: Invited reviewer** for abstracts’ scientific evaluation at **international conference** “2014 Global Conference on Polymer and Composite Materials (PCM 2014), Ningbo, China, 27-29 May 2014
- **2013:** Selected **Assistant Reviewer** in support to “Information Technology (IT) in Oral Medicine” research group, at “**VI World Workshop in Oral Medicine (WWOM)**” in Orlando (Florida, US), April 2014.

PROJECT GRANTED

- **2018: Young principal investigator**, project “Micropatterned patches for clobetasol topical drug delivery”: academic funding LINEA 2, Università degli studi di Milano (€ 5416)
- **2017: Co-Applicant**, project "Archivio digitale clinico-patologico in medicina orale" (PI: prof. Andrea Sardella), academic funding LINEA 2, Università degli studi di Milano (€ 6300)
- **2016: Young principal investigator**, project “Valutazione del rischio nutrizionale nei pazienti oncologici testa-collo”: academic funding FONDI PREMIALI, Università degli studi di Milano (€ 6000)
- **2015: Young principal investigator**, project “Effetto dei livelli di igiene orale sulla batteriemia dopo procedure di igiene orale professionale”: academic funding LINEA 2, Università degli studi di Milano (€ 3900)
- **2014: Young principal investigator**, progetto “Livelli ematici e salivari di melatonina nei pazienti con Burning Mouth Syndrome”: academic funding PIANO B, Università degli studi di Milano (€ 6000)
- **2012: Young principal investigator, Travel Fellowship CARIPLO**, “NutriAI Network: Internationalization and Excellence for the Innovation of Food Production and for Knowledge Development in Nutraceutical-Healthy field, Grant for the Promotion of Excellence Human Value”. Project title: “Development of a novel chitosan scaffold for periodontal regeneration functionalized with a nutraceutical agent”. At Università del

Piemonte Orientale (Novara, Italy) and Biointerface Lab, Department of Mining and Materials Engineering, McGill University (Montreal, Canada)

- **2011: Academic fellowship** for the project: “Caratterizzazione di membrane per la rigenerazione tissutale del legamento parodontale graftate con molecole di origine naturale”, at l’Università del Piemonte Orientale (Novara, Italy) - supervisor: Prof. Lia Rimondini in collaboration with Biointerface Lab, Department of Mining and Materials Engineering, McGill University (Montreal - Canada) (€ 1683)
- **2012: Academic fellowship** for the project: “Caratterizzazione biologica di materiali per la biomineralizzazione”, at Università del Piemonte Orientale (Novara, Italy) - supervisor: Prof. Lia Rimondini (€ 3000)
- **2009-2011: PhD student researcher**, project “Matrici polimeriche nanostrutturate per l’ottimizzazione dell’osteointegrazione, per l’ingegneria tissutale di osso e dente, e per il wound dressing” – ministerial grant “Ricerca Sanitaria finalizzata Regione Piemonte, Principal Investigator: Prof. Lia Rimondini – at Università del Piemonte Orientale (Novara, Italy)
- **2008-2010: PhD student researcher**, project “Individuazione e caratterizzazione di biomarkers serici e salivari per la diagnosi del cancro orale” - ministerial grant “Ricerca Sanitaria finalizzata Regione Piemonte”, Principal Investigator: Prof. Lia Rimondini – at Università del Piemonte Orientale (Novara, Italy)
- **2008-2010: PhD student researcher**, project “Sviluppo di nuove formulazioni inibenti la formazione di biofilms di Candida spp. per il trattamento della Candidosi orale” - ministerial grant “Ricerca Sanitaria finalizzata Regione Piemonte”, Principal Investigator: Prof. Lia Rimondini – at Università del Piemonte Orientale (Novara, Italy)
- **2008: Ministerial Fellowship PhD “Sostegno giovani”** for financial support during PhD School (3 years) (€ 40000)

SPEAKER AT SCIENTIFIC CONFERENCES

International congresses

- **2016: Selected speaker** among 3.600 abstracts at 10th **World Biomaterials Congress** (Montreal – Canada, 17-22 May) with the oral presentation: VARONI E, ALTOMARE L, GHALAYANI A, COCHIS A, CIGADA A, RIMONDINI L, DE NARDO L (2016). “Fine-tunable micropattern of porosity to promote scaffold neovascularization”. In: FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY; DOI=10.3389/conf.FBIOE.2016.01.01361
- **2015: Selected speaker**, as young researcher of the Società Italiana di Biomateriali, at Hellenic Society of Biomaterials Conference (Athens - Greece, 26-28 November 2015) with the oral presentation: “Chitosan-based trilayer scaffold for regenerative periodontal therapy”
- **2014: Selected speaker** among 149 abstracts at 12th **Congress of the European Association of Oral Medicine (EAOM)**, with the oral presentation: VARONI E, ALTOMARE L, IASI E, LODI G, RIMONDINI L, DE NARDO L (2014). Chitosan strips with

controlled micro-porosity to improve buccal mucoadhesion. Antalya (Turkey), 11-14 September 2014. In: ORAL DISEASES;20 (supplement 2):7.

- **2013: Selected speaker** at XVI **International Conference of Società Italiana di Parodontologia (SIDP)** with the oral presentation: VARONI E, XU J, COCHIS A, CHIN H, ALTOMARE L, LODI G, DE NARDO L, CARRASSI A, RIMONDINI L, CERRUTI M (2013). Multi-layered chitosan-based construct and periodontal regeneration: functional layers for multi-tissue interface. Rimini, 14-16 March 2013. In: Atti del Congresso. Winner of the SIDP “H. Goldman” Ed 2013 Prize for basic research, one of the most important award in dentistry (€ 2000).
- **2010: Selected speaker** among 254 abstracts at 10th **Congress of the European Association of Oral Medicine (EAOM)**, with the oral presentation: VARONI E, MOLTENI A, DI CANDIA D, LODI F, SARDELLA A, LODI G, CARRASSI A (2010). Clobetasol transmucosal absorption: a pharmacokinetics study on healthy subjects. London (UK), 23-25 September 2010. In: ORAL DISEASES; 16 (supplement 1):553. “Best young scientist/clinician award”, as best young researcher in oral medicine.
- **2011: Invited speaker** during the period as visiting scholar at **Universidad de Granada (Granada, Spain)** with the oral presentation: “Targeted drug delivery system using hydroxyapatite nanocrystals”, held at the same university in 22 May 2011
- **2011: Selected speaker**, among best young researcher specialist in oral medicine and affiliated to Oral Medicine School of Milan, at XI Congresso Nazionale e I International Congress of the **Società Italiana di Patologia e Medicina Orale (S.I.P.M.O.)**, with the oral presentation: VARONI E, VITALINI S, GARDANA C, SIMONETTI P, LODI G, SARDELLA A, CARRASSI A, IRITI M. “Red wine and polyphenols: in vivo study on the salivary antioxidant activity”. Pugnochiuso - Foggia (Italy), 16-18 June 2011. In: Conference proceedings.

National congresses

- **2016: Invited speaker**, specialist in oral medicine, at **Cenacolo Odontostomatologico Milanese**, on the topic: “Patologia e chirurgia dei tessuti molli” (Milano, 18 June 2016)
- **2014: Selected speaker** at Congresso Nazionale della **Società Italiana di Biomateriali (SIB)** 2014, with oral presentation: VARONI E, COCHIS A, ALTOMARE L, CHIESA R, RIMONDINI L, DE NARDO L (2014). Oriented micro-pores to promote scaffold vascularization. Palermo, 2-4 July 2014. In: Conference Proceedings.
- **2013: Selected speaker** at Congresso Nazionale della **Società Italiana di Biomateriali (SIB)** 2013, with the oral presentation: VARONI EM, XU J, COCHIS A, CHIN H, ALTOMARE L, LODI G, DE NARDO L, QUINN T, CARRASSI A, RIMONDINI L, CERRUTI M (2013). Multi-tissue engineering: development of a multi-layered scaffold with functional interfaces. Baveno, 3-5 June 2013. In: Conference Proceedings. Winner of the prize for the best poster presentation (€ 150).
- **2012-2015: Invited speaker as young researcher**, specialist in oral medicine, at **Associazione Nazionale Dentisti Italiani (ANDI)**:

- ✓ **Novara - Italy** (“Diagnosi e trattamento in patologia orale: è sempre necessario lo specialista?”, April 2012)
- ✓ **Milano – Italy** (“Laurea in odontoiatria e ricerca: rigenerazione parodontale ed nuove tecnologie”, November 2013)
- ✓ **Como-Lecco – Italy** (“Le patologie del cavo orale”, April 2015)
- **2010: Selected speaker** at Congresso Nazionale della **Società Italiana di Biomateriali (SIB)** 2010, with the oral presentation: VARONI E, IAFISCO M, ROVERI N, PRAT MG, RIMONDINI L (2010). Antibodies absorption onto hydroxyapatite nanocrystals surface. Camogli – La Spezia (Italy), 24-26 May 2010. In: Conference Proceedings.

SCIENTIFIC COLLABORATION

International collaborations

- **2012-to date: Biointerface Lab, Department of Mining and Materials Engineering, McGill University, Montreal, Canada.** Post doc researcher (May 2012-April 2013, project: “Tissue engineering for periodontal regeneration”) and visiting scholar (Maggio 2016, project: “XPS characterization of for TiN dental implant surfaces containing Ag and/or Cu”). Collaboration’s delivery: 1) Società Italiana di Parodontologia (SIDP) “H. Goldman” Prize Ed 2013 (€ 2000) for basic research, with the oral presentation: VARONI E, XU J, COCHIS A, CHIN H, ALTOMARE L, LODI G, DE NARDO L, CARRASSI A, RIMONDINI L, CERRUTI M (2013). Multi-layered chitosan-based construct and periodontal regeneration: functional layers for multi-tissue interface. Rimini, 14-16, March 2013. 2) Publication: E.M. Varoni, S. Vijayakumar, E. Canciani, A. Cochis, L. De Nardo, G. Lodi, L. Rimondini, M. Cerruti (2017). Chitosan-Based Trilayer Scaffold for Multitissue Periodontal Regeneration. JOURNAL OF DENTAL RESEARCH. 2017, doi: 10.1177/0022034517736255.
- **2015- to date: Cochrane Collaboration, member of the group “Oral Health”.** Support to perform review in oral medicine. Collaboration’s delivery: LODI G, FRANCHINI R, WARNAKULASURIYA S, VARONI EM, SARDELLA A, KERR AR, CARRASSI A, MACDONALD LC, WORTHINGTON HV. Interventions for treating oral leukoplakia to prevent oral cancer. Cochrane Database Syst Rev. 2016;7:CD001829. doi: 10.1002/14651858.CD001829.pub4
- **2015 – to date: Department of Pharmacognosy, Faculty of Pharmacy, Zabol University of Medical Sciences, Zabol, Iran.** Biomedical basic research on natural compounds. Collaboration’s deliveries: 1) Salehi B, Zucca P, Sharifi-Rad M, Pezzani R, Rajabi S, Setzer WN, Varoni EM, Iriti M, Kobarfard F, Sharifi-Rad J. Phytotherapeutics in cancer invasion and metastasis. Phytother Res. 2018. doi: 10.1002/ptr.6087. 2) Sharifi-Rad M, Varoni EM, Iriti M, Martorell M, Setzer WN, Del Mar Contreras M, Salehi B, Soltani-Nejad A, Rajabi S, Tajbakhsh M, Sharifi-Rad J. Carvacrol and human health: A comprehensive review. Phytother Res. 2018. doi: 10.1002/ptr.6103. 3) Sharifi-Rad, B. Salehi, E.M. Varoni, F. Sharopov, Z. Yousaf, S.A. Ayatollahi, F. Kobarfard, M. Sharifi-Rad, M.H. Afdjei, M. Sharifi-Rad, M. Iriti (2017). Plants of the Melaleuca Genus as Antimicrobial Agents: From Farm to Pharmacy. PHYTOTHERAPY RESEARCH,

31(10):1475-1494. doi: 10.1002/ptr.5880. 4) SHARIFI-RAD J, SOUFI L, AYATOLLAHI SA, IRITI M, SHARIFI-RAD M, VARONI EM, SHAHRI F, ESPOSITO S, KUHESTANI K, SHARIFI-RAD M. Anti-bacterial effect of essential oil from *Xanthium strumarium* against shiga toxin-producing *Escherichia coli*. *Cell Mol Biol (Noisy-le-grand)*. 2016; 62(9):69-74. 2) SHARIFI-RAD M, TAYEBOON GS, SHARIFI-RAD J, IRITI M, VARONI EM, RAZAZI S. Inhibitory activity on type 2 diabetes and hypertension key-enzymes, and antioxidant capacity of *Veronica persica* phenolic-rich extracts. *Cell Mol Biol (Noisy-le-grand)*. 2016;62(6):80-5J.

- **2016 – to date: Department of Pathology, School of Pharmacy, Medical University of Silesia, Katowice, Poland.** Biomedical basic research on natural compounds. Collaboration's deliveries: 1) grant participation "Bando Ministero degli Esteri - Mobilità e Rilevanza: Polonia Medicina e Salute". 2) Publication: M. Iriti, R. Kubina, A. Cochis, R. Sorrentino, E.M. Varoni, A. Kabała-Dzik, B. Azzimonti, A. Dziedzic, L. Rimondini, R.D. Wojtyczka (2017). Rutin, a quercetin glycoside, restores chemosensitivity in human breast cancer cells. *PHYTOTHERAPY RESEARCH*, doi: 10.1002/ptr.5878
- **2014 – 2015: World Workshop in Oral Medicine as Assistant Reviewer** in the research group "Information Technology (IT) in Oral Medicine", at International Conference "VI World Workshop in Oral Medicine (WWOM)" di Orlando (Florida, US), 6-8 April 2014. Support to collect data and paper writing. Collaboration's delivery: BRAILO V, FIRRIOLO FJ, TANAKA TI, VARONI E, SYKES R, MCCULLOUGH M, HUA H, SKLAVOUNOU A, JENSEN SB, LOCKHART PB, MATTSSON U, JONTELL M. World Workshop on Oral Medicine VI: Utilization of Oral Medicine-specific software for support of clinical care, research, and education: current status and strategy for broader implementation. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2015; 120(2):172-84. doi: 10.1016/j.oooo.2015.02.484.
- **2014-2015: Multicentre international study on "Bisphosphonate related osteonecrosis of the jaws a case-control genetic study"**. Principal Investigator: Prof. Stefano Fedele (University College of London, UK); Local Principal investigator. Prof. Giovanni Lodi (Università degli Studi di Milano). Contribution to data collection. Listed among collaborators of the publication: Fung P, Bedogni G, Bedogni A, Petrie A, Porter S, Campisi G, Bagan J, Fusco V, Saia G, Acham S, Musto P, Petrucci MT, Diz P, Colella G, Mignogna MD, Pentenero M, Arduino P, Lodi G, Maiorana C, Manfredi M, Hallberg P, Wadelius M, Takaoka K, Leung YY, Bonacina R, Schiødt M, Lakatos P, Taylor T, Riu G, Favini G, Rogers SN, Pirmohamed M, Nicoletti P; GENVABO Consortium., Fedele S. Time to onset of bisphosphonate-related osteonecrosis of the jaws: a multicentre retrospective cohort study. *Oral Dis*. 2016 Dec 31. doi: 10.1111/odi.12632.
- **2011: Laboratory for Biomaterials and Bioengineering at University of Laval (Quebec City, Canada), 13 July- 13 August.** Visiting scholar (activity: basic research on biomaterial in dentistry; skill development: use of Atomic Force Microscope). Collaboration's delivery: VARONI E, CANCIANI E, PALAZZO B, VARASANO V, CHEVALLIER P, PETRIZZI L, DELLAVIA C, MANTOVANI D, RIMONDINI L. Effect of Poly-L-

Lysine coating on titanium osseointegration: from characterization to in vivo studies. *J Oral Implantol.* 2015;41(6):626-31. doi: 10.1563/AAID-JOI-D-13-00036.

- **2011: Laboratorio de Estudios Cristalográficos dell'Universidad de Granada (Granada, Spain), 6 May-7 June.** Visiting scholar (activity: basic research to perform part of the PhD project: "Anti-cancer ternary nanoparticles with hydroxyapatite nanocrystals and monoclonal antibodies"). Collaboration's delivery: Iafisco M*, Delgado-Lopez JM*, Varoni EM*, Tampieri A, Rimondini L, Gomez-Morales J, Prat M. Cell surface receptor targeted biomimetic apatite nanocrystals for cancer therapy. *Small.* 2013;9(22):3834-44. doi: 10.1002/smll.201202843. (*co-first authors)
- **2009-2011: International collaboration supported by ministerial grant "Integrated action Italy – Japan":** "Preparation and properties of drug loaded nanoslurry of hydroxyapatite for biomedical application", 2009-2011. Activity: basic research on biomaterials, pertinent to the PhD project ("Anti-cancer ternary nanoparticles with hydroxyapatite nanocrystals and monoclonal antibodies") – Principal Investigator: Prof. Lia Rimondini
- **2008-2010: International collaboration supported by ministerial grant "Integrated action Italy – Spain":** "Multifunctional drug-loaded antibody-targeted inorganic nanoparticles for biomedical use", 2008-2010. Activity: basic research on biomaterials, pertinent to the PhD project ("Anti-cancer ternary nanoparticles with hydroxyapatite nanocrystals and monoclonal antibodies") – Principal Investigator: Prof. Lia Rimondini

National

- **2013-to date: Materials for Innovation Lab, Politecnico di Milano** (Prof. Luigi De Nardo). Activity: basic research on biomaterials and tissue engineering. Collaboration's delivery: European Patent - "Processing for manufacturing self-standing films made of natural or synthetic macromolecules characterized by controlled porosity micropattern", number: EP2845612
- **2008-to date: Interdepartmental Collaborations** – Dipartimento di Scienze Agrarie e Ambientali (Prof. Marcello Iriti), Dipartimento di Fisica (Prof. Nicola Ludwig and Dr. Marco Gargano), Dipartimento di Scienze della Salute (Prof.ssa Rita Paroni)
- **2013-to date: Dental Materials Lab, Università del Piemonte Orientale** (Prof. Lia Rimondini). Activity: basic research on biomaterials and tissue engineering, during PhD in Biotechnologies for Human Health and following collaborations

TEACHING, ORGANIZING AND VOLUNTARY EXPERIENCES

- **2018-to date: Professor** at "Diagnosi Orale" Course (Degree in Dentistry), **Università degli Studi di Milano**
- **2013-to date: Professor's assistant** at "Evidence Based Dentistry" Course (Degree in Dentistry, Prof. Lodi), **Università degli Studi di Milano**
- **2012-to date: Thesis co-supervisor in Oral Medicine** at Degree in Dentistry and

Degree in Oral Hygiene, **Università degli Studi di Milano**

- **2015-to date: Lecturer at Associazione Nazionale Dentisti Italiani (ANDI)** Sez. Milano e Como-Lecco, Course for Dental Assistant, in “Oral Medicine”
- **2009-to date: Professor’s assistant** at “Odontoiatria Restaurativa e Protesica” Course (Degree in Oral Hygiene, Prof. Lia Rimondini), **Università del Piemonte Orientale (Novara, Italia)**
- **2009-to date: Voluntary clinician and clinical tutor in Oral Medicine** at Clinica Odontoiatrica Universitaria, ASST Santi Paolo e Carlo –Presidio Ospedaliero San Paolo di Milano (Italy)
- **2009-2010: Professor’s assistant** at “Oral Medicine” Course (Degree in Dentistry, Prof. Antonio Carrassi), **Università degli Studi di Milano Milano (Italy)**
- **29 July 2011 - 5 August 2011: Member of the “THERMEC student organizing committee”** at “THERMEC International Conference on Processing & Manufacturing of Advanced Materials” (Quebec City, Canada), international prestigious conference with more of 800 oral presentations and 1200 delegates from more than 50 countries. Activities: speaker room assistance, poster room assistance and welcome desk.
- **25 December 2008 - 8 January 2009: Voluntary service at Allipalli and Vijayavada (India)**, contributing to the program for dental assistance to orphan children and inhabitants of rural community. Coordinator: **Solidarietà Medico-Odontoiatrica nel Mondo, S.M.O.M**
- **7 August - 3 September 2004: Voluntary service at Archer’s Post Health Center (Kenya)**, for epidemiological study on Tropical Diseases and HIV/AIDS in Sub-Saharan Africa (Northen Kenya).

SCIENTIFIC SOCIETY

- European Association of Oral Medicine (**EAOM**) – 2008 – to date
- Società Italiana di Patologia e Medicina Orale (**SIPMO**) – 2008-to date (**socio attivo – active member**)
- Società Italiana di Biomateriali (**SIB**) – 2008-to date
- Società Italiana di Nutrizione Umana (**SINU**) – 2012-2014
- Società Italiana di Parodontologia (**SIdP**) – 2013-2014

WORKING EXPERIENCES

- **2016-to date: Member of the team “Diagnosi Odontostomatologica e Trattamento” (DOT)** (Prof. Giovanni Lodi) - oral medicine specialist
- **2016-to date: Tepe Prodotti per l’Igiene Orale S.r.l.** - scientific divulgation and scientific article translation (Odont News)
- **2009-to date: Private dental Doctor** at Clinica Odontoiatrica Ospedale San Paolo di

Milano (intra-moenia)

- **2009-to date: Author of several papers of scientific divulgation** for the Italian Dental Journal (IDJ), Griffin Editore S.r.l. (Italia)
- **2012: Consultant** for Jonhson and Jonhson (Italia). Activity: scientific review
- **2008: Scientific text translator** at Ars XXI Comunicazione Editore S.r.l. – from english to italian language: chapter “Corticosteroids”, volume “MARTINDALE, The Complete Drug Reference, 35th edition”; chapter “Nutritional Agents and Vitamins”, volume “MARTINDALE, The Complete Drug Reference, 35th edition” “MARTINDALE, The Complete Drug Reference, 35th edition”

COURSE (BASIC AND CLINICAL RESEARCH)

- **15 October 2013: Round Table “Patologie Bollose”**, diagnosis of mucocutaneous bullous diseases. Project: Directa DasitGroup “Formazione per il laboratorio”, Cornaredo (Mi), Italy
- **28-29 November 2013 VI Meeting “Laser Day”**, Milano, Italy
- **1-2 March 2012: “Citometria a flusso” Course at BD training center (Buccinasco – Milano)**. FACSCalibur: flow cytometry data acquisition and analysis.
- **22-26 May 2011: International School on Biological Crystallization (Laboratorio de Estudios Cristalográficos Consejo Superior de Investigaciones Cientificas / Universidad de Granada, Spain)**. Protein crystallization and structural analysis.
- **30 March-3 April 2009: Course “Fondamenti di preparativa ed osservazione in immunoistochimica ed immunofluorescenza” (Università degli Studi di Milano, Dipartimento di Morfologia Umana)**. Immunohistochemistry and immunofluorescence.
- **4 March 2009: Course “Giornata di Microscopia Confocale” (Università degli Studi di Milano, Dipartimento di Morfologia Umana)**. Confocal and videoconfocal microscopy: image acquisition and analysis.

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Milan, 31/05/2018

Elena M. Varoni

A handwritten signature in black ink, reading "Elena M. Varoni", written over a horizontal line.