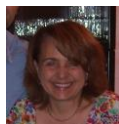


Curriculum Vitae Europass



Personal information

First name(s) / Surname(s) Rita Paroni
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Telephone(s) Off. +39-02-50323272, +39-02-50323274
Fax(es) 02-503-23245
E-mail rita.paroni@unimi.it
Nationality Italy
Date of birth 13-05-1957 Milano
Gender Female
Fiscal code PRNRCL57E53F205HN

Marital status Single

Occupational field

Research in the field of **Analytical Chemistry and Biochemistry** with particular attention to **Separative Techniques, novel instrumentation and laboratory technology** for the study of endogenous and exogenous bioactive molecules of interest for **Laboratory Medicine and Clinical or Basic Research**.

Work experience

Dates **March 2013-today**
Occupation or position held Associate Professor in Clinical Biochemistry
Main activities and responsibilities Research and Teaching
Name and address of employer University of Milan - School of Medicine - Department of Health Science, H San Paolo, Via Di Rudini, 8 - 20142 Milano -. ITALY
Type of business or sector Clinical Biochemistry (SSD/BIO12)

Dates **January 2003-2015**
Occupation or position held Researcher and Aggregate Professor in Chemistry and Biochemistry
Main activities and responsibilities Research and Teaching
Name and address of employer University of Milan - School of Medicine - Department of Health Science, H San Paolo, Via Di Rudini, 8 - 20142 Milano -. ITALY
Type of business or sector Chemistry and Biochemistry" (SSD/BIO10)

Dates **1987-2002**

| | |
|--------------------------------------|---|
| Occupation or position held | Investigator, Head of Unit |
| Main activities and responsibilities | Research |
| Name and address of employer | IRCCS H San Raffaele, Milan, Laboratory of Separative Techniques, Dpt. of Laboratory Medicine |
| Type of business or sector | Analytical Chemistry and Clinical Biochemistry |
| <hr/> | |
| Dates | 1990 and 1992 |
| Occupation or position held | Consultant |
| Main activities and responsibilities | <i>Development of HPLC and GC procedures for the Occupational Medicine field</i> |
| Name and address of employer | <i>Toxicology Laboratory of Saõ Raphael Hospital, Salvador Bahia, Brazil</i> |
| Type of business or sector | Analytical chemistry and Clinical Biochemistry |
| <hr/> | |
| Dates | 1983-1987 |
| Occupation or position held | Research Fellows by Neopharmed S.p.A. and Ciba-Geigy |
| Main activities and responsibilities | Research |
| Name and address of employer | University of Milan, School of Medicine, Dpt. of Medical Chemistry and Biochemistry (Prof. M. Galli Kienle) |
| Type of business or sector | Chemistry and Biochemistry |
| <hr/> | |
| Dates | 1982 |
| Occupation or position held | Responsible of the Library and of the Medical Documentation Centre |
| Main activities and responsibilities | Assistance to the Marketing activities |
| Name and address of employer | Smith Kline & French, Milano |
| <hr/> | |
| Dates | 1981 |
| Occupation or position held | Pharmacist |
| Main activities and responsibilities | trainee |
| Name and address of employer | Farmacia Municipale N°18, Comune di Milano |
| <hr/> | |
| Education and training | |
| Dates | 1983-17 November 1986 |
| Title of qualification awarded | School of Specialization in Clinical Biochemistry |

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|---|---|
| Principal subjects/occupational skills covered | "Pharmacokinetics and metabolism of of Ribavirin (1-β-D-ribofuranosyl-1,2,4-triazole-3- carboxamide) in humans". (70/70 with highest honours) |
| <small>Name and type of organisation providing education and training</small> | University of Milan, School of Medicine, Milan |
| Level in national or international classification | Ph.D. |
| Dates | 1982 |
| Title of qualification awarded | Chemist: <i>qualification at the profession</i> |
| Dates | 11 November 1981 |
| Title of qualification awarded | Degree in Chemistry and Technology of Drugs (110/110 with highest honours). |
| Principal subjects/occupational skills covered | "Determination of the activity of Cholesterol 7α Hydroxylase in different animal species and in humans" |
| <small>Name and type of organisation providing education and training</small> | University of Milan, School of Pharmacy, Milan |
| Level in national or international classification | Degree |
| Dates | 1976 |
| Title of qualification awarded | <i>State High School, (58/60)</i> |
| Principal subjects/occupational skills covered | 58/60. |
| <small>Name and type of organisation providing education and training</small> | <i>XI Liceo Scientifico- Milan, Italy,</i> |
| Level in national or international classification | <i>State High School</i> |

Scientific experience

In general:

Development and validation of analytical methods for the quantification of biomarkers or classes of biomarkers ("omics" techniques) in biological fluids. Evaluation of new instrumentation and new methods in the field of "Separation Techniques". Studies of metabolism and regulation of metabolic pathways in human diseases.

In particular, the most recent interests concern:

1. Development of "omics" techniques for the study of **the metabolism of melatonin, tryptophan and related indole compounds**. Applications to complex matrices of vegetable and human origin. a) Study of the metabolic activities of specific high-melatonin-producing microorganisms to transform vegetable matrices into semi-finished products for functional foods intended for subjects affected by allergies and / or food intolerances. b) Studies of bioavailability and efficacy of melatonin in humans, administered according to different routes and different pharmaceutical formulations. c) Study of the whole indole pattern in the plasma of subjects subjected to deregulation of dark-light cycles. d) Study of antitumor efficacy in animals using innovative routes of administration.

2. Evaluation of the **pharmacokinetics and metabolic activity of Myriocin**, natural inhibitor of the synthesis of ceramides, in different animal models and with different administration patterns. Development of analytical methods in LC-MS / MS for the study of the molecule in plasma and animal tissues.

3. Development of "omics" techniques for the study of complex lipids (**ceramides, sphingomyelins**, etc) in tissues and plasma. Applications to animal models of related diseases and treatment schemes for the modulation of the involved metabolic pathways.

4. Development of a method by LC-MS / MS for the assay of **Aspirin and of the metabolite salicylic acid in plasma**. Applications: a) Study of the pharmacokinetics and pharmacodynamics (production of tromboxane A2) of gastro resistant aspirin (slow-release) and plain aspirin in control subjects and in subjects affected by essential thrombocythemia, in order to identify the causes of aspirin resistance observed in these patients. b) Study of the pharmacokinetics and pharmacodynamics of different aspirin formulations (gastroprotected and) in pregnant women at risk of pre-eclampsia: evaluation of the prevalence of aspirin resistance and identification of the best formulation c) Evaluation of salicylic acid circulating levels, metabolic-inflammatory profile and intake of fruits and vegetables in children with essential obesity: changes after 1 year of nutritional-behavioral intervention.

5. Evaluation of the **pharmacokinetics and metabolism of Paclitaxel** in orthotopic mouse model of neuroblastoma after intraperitoneal or subcutaneous administration in lipid matrix (Lipogems-PTX). Development of a method by LC-MS / MS for the dosage of paclitaxel and of the main metabolites extracted from plasma and adipose cells (6-hydroxypaclitaxel and 3-hydroxypaclitaxel).

6. Studies on **oxidative stress and ischemia-reperfusion injury**. Free radical damage in various pathological states in humans and in the preservation of food quality. In particular: a) Studies on the effect of perioperative hyperoxia on markers of oxidative stress in a population of patients undergoing major abdominal surgery. b) Studies on brain adaptation to hypoxia or hyperoxia in mouse models. c) Studies on ischemia-reperfusion injury in the kidney of rats and in the human heart. d) in vitro studies on the modulation of xanthine oxidase activity and on the influence of bioactive molecules on lipid peroxidation. Development of specific analytical methods.

7. Evaluation of the diagnostic effectiveness of new procedures for the **early identification of oral cancers** in patients with established risk factors.

8. Biochemistry, role and nutritional status of **Vitamin K in humans**. Development of specific methods for the study of the vitamin set-up and application to research protocols on hypovitaminosis in different clinical situations.

9. Study of alterations of **intestinal permeability** in relation to diabetic pathology in humans. Development and optimization of methodologies based on capillary electrophoresis and liquid chromatography-mass spectrometry (LC-MS) for the study of intestinal permeability to lactulose and mannitol.

10. Study of plasma, **urinary and intra-erythrocyte metabolism of Ribavirin anti-viral**, development of specific methods by HPLC for the study of plasma, intraerythrocyte and urine concentrations. Clinical studies of correlation activity-toxicity in HCV patients or HIV / HCV coinfecting.

11. **Studies of DNA and RNA**. Identification of DNA mutations associated with various disease states using chromatographic methods (DHPLC). Development of analytical methods liquidation by chromatography mass spectrometry (LC-MS) to study the incorporation of modified nucleotide isopentenyladenosine in tRNA

12. Studies on the metabolism of amino acids and in particular on the role of **symmetric and asymmetric arginine (ADMA and SDMA) in critically ill patients with severe sepsis or septic shock**. Studies on **hydroxyproline, 3-methyl histidine, homocysteine, cystine, dimethylarginines**.

13. Purification, separation and characterization of peptides and proteins: **glycated albumin, collagenase, low-carbohydrate transferrin (CDT), RANTES, insulin, proinsulin, growth hormone, MHC, SDF-1alpha**

14. Reference Methods in clinical chemistry and microbiology: **creatinine, glucose, glycated hemoglobin, in agar diffusion test**.

15. **Studies on cholesterol metabolism**

The collaboration with the clinical and basic research groups within and outside the University led to the publication of 145 publications in JCR cited Journals, 18 in non JCR Journals and to the participation at > 160 national and international conferences. Prof. Paroni is co-author with Prof Samaja of the book "Chimica e biochimica per le lauree triennali dell'area biomedica" Ed. Piccin 2012.

Tutor of Graduate and Postdoctoral thesis

1. "Determinazione di amminoacidi urinari mediante HPLC" Scienze Biologiche 88-89
2. "Escrezione urinaria di 3-metil istidina in bambini obesi in dietoterapia" Medicina 88-89
3. "Sviluppo e valutazione di un metodo HPLC per la determinazione della idrossiprolina totale urinaria. Scienze Biologiche 90-91.
4. "Sviluppo di un metodo di riferimento per il dosaggio della creatinina plasmatica mediante spettrometria di massa". Scienze Biologiche 90-91.
5. "Metabolismo "in vitro" della ciclosporina con enzimi di fegato di coniglio: isolamento e identificazione del metabolita principale. Scienze Biologiche 91-92.
6. "Danno da ischemia-riperfusion: sviluppo di un metodo HPLC per la determinazione delle forme ossidate e ridotte del glutatione in sangue e plasma. Scienze Biologiche 92-93.
7. Studi preliminari sulla attività biologica e sulla origine enzimatica di alcuni peptidi derivanti dalla ciclosporina A. CTF 92-93.
8. Identificazione di nuovi peptidi lineari e ciclici intermedi nella degradazione idrolitica della ciclosporina. Scienze Biologiche 92-93.
9. Sviluppo e applicazione di un metodo per la quantificazione diretta del ceftazidime in agar. Scienze Biologiche 93-94.
10. Purificazione del complesso maggiore di istocompatibilità (MHC-I) di classe I da cellule di melanoma. Caratterizzazione dei peptidi antigenici d'eso associati mediante cromatografia liquida ad alte prestazioni ed elettroforesi capillare. CTF 94-95.
11. Ruolo della ipertermia a microonde e della chemioterapia locale nel trattamento neoadiuvante degli urotelioni vescicali superficiali. Sperimentazione controllata randomizzata. Medicina e Chirurgia 95-96.
12. Valutazione in HPLC di un sistema a gradiente di antibiotico utilizzato in agar diffusione. Scienze Biologiche 97-98.
13. Purificazione e caratterizzazione di una chemochina e dei suoi analoghi geneticamente mutati. Scienze Biologiche 98-99.
14. "Oxidative and nitrate stress in pathological events: role of selected biomarkers and related biochemical and analytical studies" Dottorato di Ricerca in Biochimica, Università degli Studi di Milano, XX Ciclo (2005-2007).
15. "Melatonina e melatonina veicolata da nanoparticelle: valutazione della crescita di tumore prostatico umano in un modello murino e messa a punto di un metodo di analisi in spettrometria di massa" Corso di laurea Specialistica in Biologia Applicata alla Ricerca Biomedica Università degli Studi dell'Insubria facoltà di Scienze Matematiche, Fisiche e Naturali. Anno Accademico 2008-2009.
16. "Studio del metabolismo della ribavirina e dei suoi metaboliti nel sangue e nelle urine in pazienti con co-infezione HIV-HCV" Corso di Laurea in Chimica e Tecnologia Farmaceutiche, Università degli Studi di Milano, Anno Accademico 2009-2010.
17. "Esperienze con un metodo per la valutazione dell'attività antiossidante del latte" Corso di Laurea triennale in Scienze Biologiche, Facoltà di Scienze Matematiche, Fisiche e Naturali, Anno Accademico 2009-2010.
18. "Melatonin: a pleiotropic molecule of natural origin. Evaluation of the different therapeutic activities in animal models and / or human patients and a study of the metabolic-biochemical pathways related to them. Scuola di Dottorato in Biochimica XXV Ciclo- Anno Accademico 2011-2012
19. "Sviluppo di una terapia nutrizionale per il trattamento di patologie perossisomiali neurodegenerative" Corso di Laurea in Chimica e Tecnologia Farmaceutiche, Università degli Studi di Milano, Anno Accademico 2012-2013.
20. "Patologie perossisomiali e strategie terapeutiche nutrizionali" Corso di Laurea in Chimica e Tecnologia Farmaceutiche, Università degli Studi di Milano, Anno Accademico 2014-2015.
21. "Dosaggio del Cortisolo con il metodo immunometrico e HPLC MS/MS nella diagnosi della sindrome di Cushing" Scuola di Specializzazione in Patologia Clinica e Biochimica Clinica. Università degli Studi di Milano, Anno Accademico 2014-2015.
22. "Bere vino rosso influenza i livelli endogeni di melatonina? Studio biocinetico mediante cromatografia liquida spettrometria di massa (LC/MS-MS). Corso di Laurea Magistrale in Alimentazione e Nutrizione Umana, Università degli Studi di Milano, Anno Accademico 2014-2015.
23. "Dosaggio di Miriocina mediante Cromatografia Liquida e Spettrometria di Massa" Corso di Laurea in Chimica e Tecnologia Farmaceutiche, Università degli Studi di Milano, Anno Accademico 2015-2016.
24. "Determination of the sphingolipids biosynthesis inhibitor Myriocin by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS). Pilot applications in biological models. Scuola Di Dottorato In Medicina Molecolare, Ciclo XXIX, Anno Accademico 2015-2016.
25. "Measurement of melatonin and tryptophan metabolites by UPLC-MS/MS with targeted isotopic dilution: Pilot application to complex plant and food matrices". Corso di laurea magistrale in Scienze e Tecnologie Alimentari Università degli Studi di Milano, Anno Accademico 2017-2018.

Teaching Experience

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|---|---|
| Date | 2016-today |
| Titolo dell'insegnamento | Laboratory Medicine, Module of Clinical Biochemistry |
| Corso di Laurea | Medicine and Surgery |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |
| Date | 2016-today |
| Titolo dell'insegnamento | Pharmacology and Clinical Biochemistry module of Biochemistry and Clinical Molecular Biochemistry |
| Corso di Laurea | Dietistics |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |

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| Date | 2016-today |
| Titolo dell'insegnamento | Biochemistry and Clinical Molecular Biochemistry module of Biological Science |
| Corso di Laurea | Dental hygienists |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Polo didattico Centrale |
| Date | 2016-tutt'oggi |
| Titolo dell'insegnamento | Clinical Biochemistry and Molecular Clinical Biochemistry-module of Physiopathology of reproduction and pregnancy |
| Corso di Laurea | School of Specialization Gynecology and Obstetrician |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |
| Date | 2016-tutt'oggi |
| Titolo dell'insegnamento | Clinical Biochemistry (module of Biochemistry of Nutrition) |
| Corso di Laurea | School of Specialization in Hygiene and Preventive Medicine |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |
| Date | 2016-2017 |
| Titolo dell'insegnamento | Clinical Biochemistry-4 module of Physiopathology of reproduction and pregnancy |
| Corso di Laurea | School of Specialization in Clinical Biochemistry |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Lita-Segrate |
| Date | 2015-today |
| Titolo dell'insegnamento | Pathogenesis and Diagnostics (module of Clinical Biochemistry and Clinical Molecular Biochemistry) |
| Corso di Laurea | Nursing |
| Nome e tipo d'organizzazione erogatrice | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Sedi di insegnamento | Policlinico –Palazzina Valetudo; H San Carlo |
| Date | 2014-2016 |
| Title of the teaching | Molecular Basis of Life-1 Chemistry and Basic Biochemistry |
| Degree | Medicine and Surgery |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |

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| Date | 2014-today |
| Title of the teaching | Clinical Biochemistry and Biology ("Biochemistry of Bain" – module) |
| Name and type of organisation providing teaching | School of Specialization in Psychiatry Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Teaching site | Dipartimento Scienze della Salute - Polo didattico H San Paolo, Milano |
| Date | 2011-2015 |
| Title of the teaching | "Pre-clinical Human and Biological Sciences", form of Biochemistry Sections-San Paolo, Gaetano Pini, San Carlo, Don Gnocchi, - module of Biochemistry |
| Degree | Physiotherapy |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Department of Health Science, H San Paolo. Milano |
| Date | 2009-2013 |
| Title of the teaching | "Molecular Basis of Life-2", Biochemistry Module of biochemistry of Nutrition |
| Degree | Medicine and Surgery |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Department of Health Science, H San Paolo. Milano |
| Date | 2007-today |
| Title of the teaching | "Basic Sciences" , module of Biochemistry |
| Degree | Nursing |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Sections-Salvini, Garbagnate, Sezione Don Gnocchi, Milano, Sezione San Carlo, Milano |
| Date | 2007 |
| Title of the teaching | Principi di tecnologia farmaceutica applicati alla Medicina Tradizionale Cinese |
| Degree | Master di II Livello in "Integrazione tra Medicina Tradizionale Cinese e Medicina Occidentale" |
| Name and type of organisation providing teaching | Università degli Studi di Milano, Facoltà di Medicina e Chirurgia |
| Teaching site | Polo didattico H San Paolo, Milano |
| Date | 2006-2015 |
| Title of the teaching | "Biological basis of Life and Pathology " Module of Chemistry and Biochemistry Sections "Litta", Policlinico and Torri, IEO, Milano |
| Degree | Techniques of Medical Radiology, Imaging and Radiation Therapy |

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| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Department of Health Science, H San Paolo. Milano |
| Date | 2005-2007 |
| Title of the teaching | "Clinical Biochemistry analysis" |
| Degree | Degree in Health Biology |
| Name and type of organisation providing teaching | Università degli Studi della Insubria, Facoltà di Scienze Matematiche, Fisiche e Naturali-Varese |
| Teaching site | Busto Arsizio, Molini Marzoli-Tecnocity |
| Date | 2004-2015 |
| Title of the teaching | "Analytical and Instrumental Biochemistry III" module-Principle of HPLC |
| Degree | School of Specialization in Clinical Biochemistry |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Department of Health Science, H San Paolo. Milano |
| Date | 2003-2010 |
| Title of the teaching | Clinical Biochemistry module " Clinical applications of HPLC |
| Degree | School of Specialization in Clinical Biochemistry |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Dpt. Chemistry, Biochemistry and Medical Biotechnologies , via Saldini 50, Milano |
| Date | 2002-2009 |
| Title of the teaching | Practice of Chemistry and preliminary Biochemistry |
| Degree | Medicine and Surgery |
| Name and type of organisation providing teaching | University of Milan, School of Medicine and Surgery |
| Teaching site | Department of Health Science, H San Paolo. Milano |
| Date | 1987-2002 |
| Titolo dell'insegnamento | Plays several monographic seminars for students of the course of Clinical Biochemistry (Prof. A. Mosca, faculty 'Biological Sciences). Performs several lessons "Analysis of DNA damage by DHPLC technique" during BIORAD "The PCR in the new millennium." Guide undergraduates students in Biological Sciences and Chemistry and Technology of Drugs that carry out the thesis at the Integrated Service of Laboratory Medicine at H San Raffaele. |
| Mother tongue(s) | Italian |

| Self-assessment | Comprensione | | | | Parlato | | | |
|---|---|------------------|-------------------|------------------|------------------|------------------|----|------------------|
| | Lettura | | Interazione orale | | Produzione orale | | | |
| English | C1 | Livello avanzato | C1 | Livello avanzato | C1 | Livello avanzato | C1 | Livello avanzato |
| French | A1 | Utente base | A1 | Utente base | A1 | Utente base | A1 | Utente base |
| European level (*) | (*) Quadro comune europeo di riferimento per le lingue | | | | | | | |
| Technical skills and competences | <p>Ability to coordinate the work and research projects of doctoral students, interns, trainees pre- or post-graduate and junior researchers. Ability to organize a laboratory of analytical and separative techniques. Ability to write scientific papers, grants and degree thesis.</p> <p>-Development and validation of analytical methods for quantification of metabolites in biological fluids</p> <p>-Evaluation of new instrumentation and new method in the field of separative techniques</p> <p>-Organization of research lines in the field of Chemistry and Biochemistry applied to Medicine and Clinical Chemistry laboratory.</p> <p>-Ability in the use of UV, GC-MS, LC-MS, HPLC, capillary electrophoresis. Extraction and purification of biological samples.</p> | | | | | | | |
| Computer skills and competences | Office™ (Word™, Excel™ e PowerPoint™), Sigmaplot e Sigmaplot, Graphpad, XCalibur, Analyst, MultiQuant, Chemoffice MultiQuant, Borwin, GraphPad Prism, Cytoskape. | | | | | | | |
| Artistic skills and competences | | | | | | | | |
| Other skills and competences | | | | | | | | |
| Driving licence | Car (drive license B) | | | | | | | |
| Society Membership, Study Groups and Institutional Commitments | <ul style="list-style-type: none"> ● 1987-present Member of Society 'Italian Clinical Biochemistry and Clinical Molecular Biology (SIBIOC). ● 2005-present Member of the Italian Society of Biochemistry and Molecular Biology (SIB). ● 2004-present member of the Library Board of at the Department of Health Science, University of Milan, H San Paolo, Milan. ● 2012-2015 Member of the Scientific Committee of the Department of Health Science, University of Milan, H San Paolo, Milan. ● 2008-2015 Member of the "Committee for Teaching Quality evaluation and for relations with Students" in the School of Medicine ● 2007-2014 Member of "Vitamin K external quality assurance scheme" (KEQAS) organized by The Centre for Haemostasis and Thrombosis (Nutristasis Unit), Guy's and St Thomas' NHS Foundation Trust, London, UK ● 1999-2005 Member of the National Association of Pharmaceutical Chemists and Technologists ● 1997-2004 Member of the "IFCC Network of Reference Laboratories on HbA1c Standardization." ● 1996-2001 Member of the 'Association of Pharmacists of the Province of Milan and Lodi ● 1992-1994 Member of the "Working Group on plasma creatinine determination" under the "Measurements & Testing" Program of the European Community. | | | | | | | |

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| Other information | Reviewer for the following International Scientific Journals <ul style="list-style-type: none"> ● Acta Diabetologica ● Cellular Physiology and Biochemistry ● Clinical Biochemistry ● Clinical Chemistry ● Clinical Chemistry and Laboratory Medicine ● Diabetologia ● FEBS ● Fundamental & Clinical Pharmacology ● Journal of Pharmaceutical and Biomedical Analysis ● Journal of Endocrinological Investigation ● Journal of Visualized Experiments (JoVE) ● Journal of Chromatography B ● Journal of Chromatography A ● Lipids ● Oncotarget ● Since 2014 Expert member of the Association of auditors of the Ministry of Education (MIUR) |
| Professional Training Courses | <ul style="list-style-type: none"> ● Modelli per la Farmacocinetica" Gargnano sul Garda 3-9 Settembre 1884. ● "Cromatografia Liquida ad Alte Prestazioni (HPLC) nuovi sviluppi ed applicazioni" Milano, 23-25 Novembre 1987 ● "Spettrometria di Massa in Biologia e Medicina" Milano, 26-27 Novembre 1990. ● "Electrophoresis '94" - Zagabria 17 Settembre 1994. ● "Accoppiamento HPLC-Spettrometria di massa" Firenze, 6 Ottobre 1994. ● "Principi di analisi statistica applicati al laboratorio di analisi per una moderna gestione" Milano, Marzo -Aprile 1995. ● "Impiego diagnostico della Spettrometria di Massa con isotopi stabili nei laboratori di analisi cliniche" Milano, 12 Giugno 1996. ● "Statistica nel laboratorio clinico: teoria e applicazioni" Pesaro, 7-8 Ottobre 1996. ● "CE troubleshooting & method optimization" Londra, 23 Ottobre 1996. ● "Diabete e laboratorio" Corsi ATB '96. Milano, 20 Novembre 1996. ● "Il laboratorio e la ricerca delle sostanze d'abuso" Torino, 28 febbraio 1997. ● "Nuovo Sistema LC/MSD Serie HP1100" Milano, Febbraio 1997. ● "Stress Ossidativo. Quali applicazioni?" Milano, 14 Marzo 1997. ● "Norme Misure e Prove: Settori II-III" FAST, Milano, Giugno 1997. ● "Applicazioni attuali dell'HPLC nella Medicina di Laboratorio" Corsi ATB '98 Milano, 26 Novembre 1998. ● "Aggiornamenti in Diabetologia e Malattie del Metabolismo" Milano, 11 Marzo 1999. ● "2000 Two-Dimension Gel Electrophoresis Course" Ginevra, 24-28 Gennaio 2000. ● "Attualità in Tema di Proteine" Milano, 18 Maggio 2000. ● "HPLC ieri, oggi, domani" Milano, 31 Maggio 2000. ● "2-D Electrophoresis in proteome analysis" Roma, 23 Ottobre 2000. ● "Proteome Seminars" Milano, 6 Marzo 2001. ● "A new approach to drug detection in forensic toxicology: application of capillary electrophoresis" Milano, 27Marzo, 2001. ● "Gli Isotopi stabili come alternativa ai radioisotopi nell'indagine clinica" Università degli Studi Milano-Bicocca, Monza, 12 Aprile 2001. |

- "La PCR nel nuovo millennio" Milano, 24-28 Settembre 2001.
- "Proteomics: una realtà poliedrica nella ricerca di base e applicata" Bioindustry Park del Canadese, Colletterto Giacosa, TO, 9 Ottobre 2001.
- "Proteomica in biochimica clinica: aspetti analitici". Monza, 19 Dicembre 2001.
- "PROTEOMICA presente e futuro delle applicazioni in biochimica clinica" Monza, 26 Febbraio 2002.
- "Proteomics" Glaxo Research Center, Verona, 13 marzo 2002.
- "Proteomix: Caratterizzazione delle proteine da gel elettroforesi" Bioindustry Park del Canadese, Collaretto Giacosa, TO, 9-10 Maggio 2002.
- "La PCR nel nuovo millennio" Biorad, Milano 27-31 maggio 2002.
- "ICAT-Isotope Coded Affinity Tags", Applied Biosystem H San Raffaele, Milano 25 Giugno 2002.
- "From 2-D Electrophoresis to Protein Identification" Ammersham Biosciences, LITA, Segrate 25 Settembre 2002.
- "Proteomix: Caratterizzazione delle proteine" Bioindustry Park del Canadese, Collaretto Giacosa, TO, 17-18 Ottobre
- "Tecniche automatiche per la caratterizzazione di proteine su nanoscala" Agilent Technologies, Milano 26 Novembre
- "Tecnologie per l'analisi degli acidi nucleici" H San Raffaele, Milano 12-26 Novembre 2002.
- "Il laboratorio nell'invecchiamento e nelle malattie autoimmuni" SIBIOC, Rimini 19 settembre 2002.
- "I DNA-chip nel laboratorio del futuro" SIBIOC, Rimini 19 settembre 2002
- "Proteoma: quale futuro?" SIBIOC, Rimini 19 settembre 2002.
- "Indici di rischio trombotico" SIBIOC, Rimini 19 settembre 2002.
- "Avanzamenti nelle conoscenze del diabete mellito" SIBIOC, Rimini 19 settembre 2002.
- "Tabagismo: nuove frontiere della medicina di laboratorio nella prevenzione e nella diagnosi" SIBIOC, Rimini 19 settembre 2002.
- "E-learning" Università degli Studi di Milano, Giugno-Luglio 2003.
- Utilizzo banca dati "Micromedex" Università degli Studi di Milano, 22 Gennaio 2004.
- "Le tecnologie del nuovo millennio" Biorad, Milano, 4-8 Ottobre 2004.
- "LE PROTEINE: dal laboratorio alla clinica" Corso Cefar, Jesi (AN), 2-4 novembre 2005
- "ProteomeLab" tecniche tradizionali e nuovi approcci analitici per lo studio del proteoma" Beckman Coulter, H San Raffaele , DIBIT, Milano, 3 Maggio 2005.
- "Evoluzione della Spettrometria di Massa nel settore agro-alimentare e ambientale" Università degli Studi di Milano, Facoltà di Agraria, 29 Marzo 2007.
- Tecnologia Innovativa che rivoluzionerà la cromatografia Liquida" Dip. Scienze Farmacologiche Pietro Pratesi , Università degli Studi di Milano, 28 Settembre 2009.
- La valutazione della ricerca" Università degli Studi di Milano, via G. Colombo 46, 29 Marzo 2012.
- Presente e futuro delle applicazioni della Spettrometria di massa nel settore Clinico e Tossicologico: una visione raccontata dagli esperti del settore. H Andreola Central, via D. Scarlatti 24, Milano, 10 Giugno 2014.

Project leader

- 2003-FIRST 2003, 1 year, Università degli Studi di Milano, 5828,26 €
Characterization by HPLC, capillary electrophoresis, mass spectrometry and protein-chips of enzyme mixtures (liberase) to be used for the isolation of pancreatic islets prior to transplantation in humans
- 2004-FIRST 2004, 1 year, Università degli Studi di Milano 3608,71 €
Development of an analytical method for the quantification by capillary electrophoresis of lactulose and mannitol concentrations in urine and evaluation of the intestinal permeability in patients with diabetes
- 2005-FIRST 2005, 1 year, Università degli Studi di Milano 4731,73 €
Identification of serum transferrin desialylated isoforms (CDT): comparison between a manual method and a commercial kit based on capillary electrophoresis, and an immunoassay method
- 2006-FIRST 2006, 1 year, Università degli Studi di Milano 4712,22 €
Evaluation of the dual role of the lung as an organ "scavenger" or "producer" of free radicals in critically ill patients in intensive care by undertaking assessments of biochemical markers of oxidative stress
- 2007-FIRST, 2007 1 year, Università degli Studi di Milano 4528,62 €
Development and validation of an HPLC chromatographic method for the determination of vitamin K in plasma
- 2008-PUR 2008, 1 year, Università degli Studi di Milano, 4652,85 €
Analysis of vitamin K1 (phyloquinone) in plasma: optimization of the HPLC analysis by comparison with mass spectrometry and its use for screening epidemiological and clinical studies

Project Co-applicant

- 1989 Target Project Biotechnology and Bioinstrumentation (BTBS), 36 months ≈7770 € (15.000.000 £)/anno
Sperimentazione di nuovi farmaci anti-rigetto e valutazione di nuove strategie di immunomodulazione e di terapia del rigetto di organi trapiantati: Metabolismo della Ciclosporina A
- 1993 Uphon 1 year, ≈1036 € (2.000.000 £)
Ischemia-reperfusion injury in the rat kidney.
- 1993- Programma Measurements and Testing, M&T of European Commission Contract no: MAT-1-CT-92-0012, 24 months ≈4.000 €
Reference Materials for Creatinine in Human Serum
- Beckman Analytical, 12 months, ≈7700 € (15.000.000 £)
Development of a kit for urinary cross-links determination by HPLC.
- 1995 Italian-Brazilian Association for Diagnosis and Treatment of the Urinary Apparatus, 12 months, ≈1036 € (2.000.000 £)
- 1995 Cattedra di Anestesia e Rianimazione Policlinico, Milano, 12 months, 878 € (1.700.000 £)
from for a research on ischemia-reperfusion damage in the rat kidney.
- 1997 HPLC instrumentation + automatic sampler (about 20.000.000 £) from Beckman Analytical.
- 1998 Knoll, 12 months, ≈4911 € (£ 10.000.000)
Dosage of total homocysteine in young thrombophilic patients before and after vitamin treatment.
- 1998 Measurements and Testing Program, M&T of European Commission, Project CT 98-2248, 24 months, ≈16.735 €
"Development of a Reference Method for the Determination of HbA1C in Human Blood and Establishing a European Network of Reference Laboratories for this Method".
- 1010-2015 Industry Call New Technologies for the Made in Italy, enhancement of skills and excellence in the production system and research, the Ministry of Industry, cod. MI01_00094, 24 months, 2,556,40 €
Resveratrol as a natural food supplement: development of novel nutraceutical formulations to improve its bioavailability and antioxidant and neuroprotective efficacy
- 2016 "Semi-finished nutraceuticals and technological fermented for the nutritional and sensory improvement of traditional and gluten-free bakery products". BORDER POR FESR 2014-2020 ASSE I - ACTION I.1.B.1.3 "R & D LINE FOR AGGREGATIONS" REGION Regional Decree No 13038 Of 06/12/2016
WP3: "Development of a semi-finished vegetable enriched with melatonin from yeast (WP3) 15,000 €
- 2017 "Pharmacokinetics and pharmacodynamics of different aspirin formulations in pregnant women at risk of hypertensive disorders and pregnancy loss" BANDO AIFA 2016 PER LA RICERCA INDIPENDENTE SUI FARMACI. 4.79.469,61 €

1. GIUSEPPE MATTEO CAMPISI, PAOLA SIGNORELLI, JESSICA RIZZO, CLAUDIO GHILARDI, JACOPO ANTOGNETTI, ANNA CARETTI, JELENA S. LAZAREVIC, RICCARDO GHIDONI, FEDERICO MARIA RUBINO, RITA PARONI Determination of the serine palmitoyl transferase inhibitor Myricoin by electrospray and Q-trap mass spectrometry. **Biomedical Chromatography**. 2017;e4026.<https://doi.org/10.1002/bmc.4026>
2. LAURA TERRANELO, PAOLA BIANCIARDI, ELEONORA VIRGILI, ELENA FINATI, MICHELE SAMAJA, RITA PARONI Non-invasive therapy for prostate cancer by cryopass-laser transdermal delivery of melatonin **Drug Delivery**, (2017), 24:1, 979-985, DOI: 10.1080/10717544.2017.1338793
3. ZULUETA A., CARETTI A., CAMPISI G.M., BRIZZOLARI A., ABAD J.L., **PARONI R.**, SIGNORELLI P., GHIDONI R. Inhibitors of ceramide de novo biosynthesis rescue damages induced by cigarette smoke in airways epithelia. **Naunyn Schmiedebergs Arch Pharmacol**. 2017 Jul;390(7):753-759. doi: 10.1007/s00210-017-1375-2. Epub 2017 Apr 13.
4. MISTRALETTI G., **PARONI R.**, UMBRELLO M., D'AMATO L., SABBATINI S., TAVERNA M., FORMENTI P., FINATI E., FAVERO G., BONOMINI F., REZZANI R., REITER R.J., IAPICHINO G. Melatonin pharmacological blood levels increase total antioxidant capacity in critically-ill patients. **International Journal of Molecular Sciences** 2017 Apr 3;18(4). pii: E759. doi: 10.3390/ijms18040759.
5. LAURA TERRANELO, **RITA PARONI**, PAOLA BIANCIARDI, TONIELLA GIALONGO, STEPHANA CARELLI, ALFREDO GORIO, MICHELE SAMAJA Brain adaptation to hypoxia and hyperoxia in mice. **Redox Biology** 11 (2017) 12–20.
6. M.R. REFORGIATO , G. MILANO, G. FABRIAS, J. CASAS, P. GASCO, **R. PARONI**, M. SAMAJA, R. GHIDONI, A. CARETTI , P. SIGNORELLI "Inhibition of ceramide de novo synthesis as postischemic strategy to reduce myocardial reperfusion injury" In: **BASIC RESEARCH IN CARDIOLOGY**. - ISSN 0300-8428. - 111:2(2016 Mar), p. 12. DOI 10.1007/s00395-016-0533-x
7. GIULIANA CIGHETTI FABRIZIA BAMONTI , CAROLINE STEPHANIE AMAN, DARIO GREGORI , CRISTINA NOVEMBRINO, FEDERICA DE LISO , RACHELE DE GIUSEPPE , RITA MAIAVACCA , **RITA PARONI**. Oxidative status in different settings and with different methodological approaches compared by Receiver Operating Characteristic curve analysis **Clinical Biochemistry** 48 (2015) 73–78. <http://dx.doi.org/10.1016/j.clinbiochem.2014.09.025>
8. SIGNORELLI P., FABIANI C., BRIZZOLARI A., **PARONI R.**, CASAS J, FABRIAS G., ROSSI D., GHIDONI R., CARETTI A. "Natural grape extracts regulate colon cancer cells malignancy". **Nutr Cancer**. 2015;67(3):494-503. doi: 10.1080/01635581.2015.1004591. Epub 2015 Feb 23. To link to this article: <http://dx.doi.org/10.1080/01635581.2015.1004591>
9. P. RISE, **R. PARONI** AND A. PETRONI Peroxisomal Pathways, their Role in Neurodegenerative Disorders and Therapeutic Strategies. In **OMEGA 3 FATTY ACIDS IN BRAIN AND NEUROLOGIC HEALTH**, Book: Watson-1611052 Chapter: CH003, 2014. DOI: <http://dx.doi.org/10.1016/B978-0-12-410527-0.00003-X>
10. **PARONI R.**, TERRANELO L, BONOMINI F, FINATI E, VIRGILI E, BIANCIARDI P, FAVERO G, FRASCHINI F, REITER RJ, REZZANI R, SAMAJA M. Antitumour activity of melatonin in a mouse model of human prostate cancer: relationship with hypoxia signalling. **J Pineal Res**. 2014; 57:43–52 Doi:10.1111/jpi.12142.
11. MAIOLI C., **PARONI R.**, CIGHETTI G. Comment on JVGA Durmin and J.Womersley article. **PROGRESS IN NUTRITION VOL. 15,N. 2, 133-134, 2013**
12. **PARONI R.**, BARASSI A., MELZI D'ERIL GV. Evaluation of asymmetric dimethylarginine (ADMA) and symmetric dimethylarginine (SDMA) in patient with erectile dysfunction. *International Journal of Andrology*, 2012, 35, 660–667.
13. L. TERRANELO, E. FINATI, E. VIRGILI, G. DEMARTINI, L. DE ANGELIS, R. DALL'AGLIO, F. FRASCHINI, M. SAMAJA AND **R. PARONI** (2011). LNCaP Prostate Cancer Growth In Vivo: Oncostatic Effects of Melatonin as Compared to Hypoxia and Reoxygenation, Prostate Cancer - Original Scientific Reports and Case Studies, Philippe E. Spiess (Ed.), ISBN: 978-953-307-342-2, InTech, Available from: <http://www.intechopen.com/articles/show/title/lncap-prostate-cancer-growth-in-vivo-oncostatic-effects-of-melatonin-as-compared-to-hypoxia-and-reox>.
14. FRANCO FOLLI, VALERIA GUZZI, LUCIA PEREGO, DAWN K. COLETTA, GIOVANNA FINZI, CLAUDIA PLACIDI, STEFANO LA ROSA, CARLO CAPELLA, CARLO SOCCI, DAVIDE LAURO, DEVJIT TRIPATHY, CHRISTOPHER JENKINSON, **RITA PARONI**, ELENA ORSENIGO, GIULIANA CIGHETTI, LUISA GREGORINI, CARLO STAUDACHER, ANTONIO SECCHI, ANGELA BACHI, MICHAEL BROWNLEE, PAOLO FIORINA. Proteomics Reveals Novel Oxidative and Glycolytic Mechanisms in Type 1 Diabetic Patients' Skin Which Are Normalized by Kidney-Pancreas Transplantation. **PLoS One**. 2010 Mar 29;5(3):e9923.
15. IAPICHINO G., UMBRELLO M., ALBICINI M., SPANU P., BELLANI G., POLLI F., PAVLOVIC R., CUGNO M., FERMO I., **PARONI R.** Time course of endogenous nitric oxide inhibitors in severe sepsis. **Minerva Anestesiol**. 2010;5:325-33.
16. IAPICHINO G., ALBICINI M., UMBRELLO M., SACCONI F., FERMO I., PAVLOVICH R., **PARONI R.**, BELLANI G., MISTRALETTI G., CUGNO M., PESENTI A., GATTINONI L. Tight glycaemic control does not affect asymmetric dimethylarginine in septic patients. **Intensive Care Medicine**. - 34(2008 Oct). - p. 1843-1850.
17. MAIOLI C., BESTETTI A., MAURI A., POZZATO C., **PARONI R.** Removal of radioisotopes in solution and bactericidal/bacteriostatic sterilising power in activated carbon and metal silver filters. **Environmental Toxicology and Pharmacology** 27 (2009) 49–53
18. CIGHETTI G, FERMO I, AMAN CS, FERRARONI M, SECCHI A, FIORINA P, **PARONI R.** Dimethylarginines in complicated type 1 diabetes: Roles of insulin, glucose, and oxidative stress. **Free Radical Biology & Medicine** 2009, 47: 307–311.
19. **PARONI R.**, FAIONI E., RAZZARI C., FONTANA G., CATTANEO M. Determination of vitamin k1 in plasma by solid phase extraction and HPLC with fluorescence detection. **J Chromatogr B Analyt Technol Biomed Life Sci**. 2009 Jan 15;877(3):351-4.
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23. PONTIROLI AE, PIZZOCRI P, **PARONI R.**, FOLLI F. Sympathetic overactivity, endothelial dysfunction, inflammation, and metabolic abnormalities cluster in grade III (World Health Organization) obesity: reversal through sustained weight loss obtained with laparoscopic adjustable gastric banding. **Diabetes Care** 2006 Dec;29(12):2735-8.
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Annexes

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali (facoltativo)".

Signature



Milano, 03/04/2018