

June 4th, 2018
Curriculum Vitae Extenso Europass

Prof. Ciro Isidoro
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Prof. Ciro Isidoro, DSc, MD

Born in Tripoli di Libia, August 29th 1956.

Doctor in Biological Sciences (1983), Doctor in Medicine and Surgery (1999).

Academic Position: Associate Professor of General Pathology, Head of the Laboratory of Molecular Pathology, Department of Health Sciences, Università del Piemonte Orientale.

ASN 2016-2017 Qualified as **Full Professor of** «Clinical Biochemistry and Molecular Clinical Biochemistry (BIO12)», of «Medical Oncology (MED06)», of «General Pathology and Clinical Pathology (MED04)»

EDUCATION

- July 7th 1983, Magna cum Laude (110 e lode su 110) Doctor degree in Biological Sciences (Laurea in Scienze Biologiche), Università di Torino, major in Experimental Oncology (mentor Prof. Guido Forni).
- 1984 – National License for Board of Doctor Biologists
- July 27th 1999, Magna cum Laude (110 e lode su 110) Doctor degree in Medicine and Surgery (Laurea in Medicina e Chirurgia), Università del Piemonte Orientale “Amedeo Avogadro”, Faculty of Medicine and Surgery, (mentor Prof. Emanuele Albano).
- 2000 - National License for Board of Medical Doctors and Surgeons.
- 2003 - Board member of Ordine dei Medici-Chirurghi della Provincia di Torino (Italy).

ACADEMIC CAREER, AWARDS AND AFFILIATIONS

- 2000-present: Appointed Associate Professor of Cell Pathology and of Experimental Oncology (General Pathology MED06), School of Medicine, Department of Health Sciences, Università del Piemonte Orientale (Italy)
- 2017- National qualification as Full Professor of Clinical Biochemistry and Molecular Clinical Biochemistry (BIO12).
- 2017- National qualification as Full Professor of Medical Oncology (MED06).
- 2018- National qualification as Full Professor of General Pathology and Clinical Pathology (MED04).
- 2017-present: Visiting Professor of Cell Pathology, Department of Cell Biology, Oklahoma University Health Sciences Center, Oklahoma City (US).

- 2015-present : Member of the Scientific board of « Integrative Cancer Research Center of the Georgia Institute of Technology », Georgia Tech University, Georgia (Atlanta, US) <http://www.icrc.gatech.edu/>
- 2015-present : Executive Vice-President of the International Association of Traditional and Complementary Medicine. www.iatcm.org
- 2014 Honorary Professor, Faculty of Medicine and Pharmacy, Université de la Franche-Comté de Besancon (France).
- 2013-present : Visiting Professor of Experimental Oncology, Faculty of Medicine - Siriraj Hospital, Mahidol University (Bangkok, Thailand)
- 2005-present : Overseas advisor of PhD students at Mahidol University, at Chulalongkorn University, Bangkok; at Khon Kaen University (Thailand)
- 2002-2005: Visiting Professor at Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology (Prof. David Murphy), University of Bristol (UK).
- 2002-to date President of Associazione per la Ricerca Medica Ippocrate-Rhazi, Università del Piemonte Orientale (Novara, Italia) www.isidorolab.com (ARM-IR)
- 2001-to date Principal Investigator Operative Unit of Consorzio InterUniversitario di Biotecnologie (Trieste, Italy).
- 2000-2000: Visiting Professor at Institute fuer Physiologische Chemie (Prof. A. Hasilik), Klinikum der Philipps-Universitaet Marburg (D)
- 1996-to date Head of the Laboratory of Molecular Pathology and Nanobioimaging, Department of Health Sciences, Università del Piemonte Orientale (Italy).
- 1996 (Dec)-1997 (March): Fellowship of Fondazione Italiana per la Ricerca sul Cancro (Milano) as Visiting Scientist per ricerche presso il Department of Pharmacology (Chair: Prof. Bonnie F. Sloane), Wayne State University of Detroit (USA).
- 1993-1999 Assistant Professor of General Pathology, University of Turin (Italy)
- 1993-1994 : Visiting Scientist at Laboratoire de Biologie et Pathologie Moléculaires des Glycoprotéines (Dr Patrice Codogno), INSERM U410, Ospedale X. Bichat (Paris, France).
- 1989-1992 Post-doc-Assistant Researcher at Università di Torino, Dipartimento di Medicina e Oncologia Sperimentale (Italy)
- 1986-1989 PhD fellow-Assistant Researcher (mentor Prof. Andrej Hasilik) at the Institut fuer Pathobiochemie, Westfaelish Wilhems Universitaet Muenster (Germany)

EDITORIAL BOARD

Co-Editor in Chief of Journal of Traditional and Complementary Medicine

Associate Editor of: Autophagy, Molecular Carcinogenesis, BMC Cancer, J. Ovarian Res., Genes and Cancer, J. Alzheimer's Disease, Frontiers in Endocrinology and Aging, Journal of Molecular Signaling (others, see www.isidorolab.com)

Reviewer of several peer reviewed journals among which: *Int J Cancer, Cancer Res, Carcinogenesis, J Cell Science, J Mol Science, J Biol Chem, J Cell Biol, Apoptosis, J Neurochemistry, Neurochem Int, Neurotox Res, Current Med Chem, Int J Biochem Cell Biol, Autophagy, Cell Death Dis, Cell Death Diff.*

Academic and Institutional representative appointments

- 1993-1999: Board member of the Faculty of Sciences, Università di Torino, sede di Alessandria (1993-1999)
- 1997-2011: Board member of the Council of Administration of Università del Piemonte Orientale (Italy).

Teaching and Educational Responsibilities

- Course of Experimental Oncology (Master in Medical Biotechnology), School of Medicine.
- Course of Fondamenti di Patologia e Immunologia Generale (Laurea triennale in Scienze Biologiche), Course of Laboratorio di Patologia Molecolare (Laurea magistrale in Biologia), Department of Innovative Sciences and Technology.
- Course of Patologia Generale (Scuola di Specialità in Oncologia Medica).
- PhD program in Molecular Medicine (2001-2005); Biotechnology for Human Health (2006-2012); Sciences and Medical Biotechnologies (2013-present).

International teaching

- Experimental Oncology (Master in Medical Sciences), Faculty of Medicine, Mahidol University, Bangkok (TH).
- Overseas Tutor (dal 2015: Miss Suyanee Thongchote) PhD in Medical Biochemistry and Molecular Biology, Department of Biochemistry, Faculty of Medicine, Khon Kaen University, Thailand.
- Overseas Tutor (dal 2014: Miss Wilairat Kankuan, Miss Sirorat Thongrod) del PhD Program in Anatomy, Faculty of Sciences, Mahidol University, Bangkok, Thailand.
- Overseas Tutor (dal 2014: Miss Nuchanawan Promnakhon) del PhD Program in Immunology at Siriraj Medical Faculty, Mahidol University, Bangkok, Thailand.
- Overseas Tutor (dal 2014: Mr Natapol Duangtum) of PhD student from Ministry of Scientific Research at Siriraj Medical School, Mahidol University, Bangkok, Thailand.
- Overseas Tutor (dal 2012: Miss Visa Thongrakard) of PhD Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Sciences, Chulalongkorn University, Bangkok, Thailand.
- Overseas Tutor (dal 2005 al 2008: Miss Chutima Thepparit, Miss Maneerat Ekkapongpisit) of PhD Program in Molecular Biology and Genetic Engineering, Mahidol University (Salaya Campus, Bangkok, Thailand).

Research Areas:

Autophagy in Cancer and in Neurodegeneration. Epigenetic regulation of Autophagy and cell death. Anti-aging and anti-cancer Nutraceuticals. Organelle biogenesis, vesicular traffic and diseases. Nanotheranostics ('in cellulo' imaging).

SCIENTIFIC PRODUCTIVITY SCORES

ANVUR – QVR (*Qualità della Ricerca Universitaria*)

2004-2010 = 5 Prodotti ECCELLENTI, 1 Prodotto Buono

2011-2014 = 3 Prodotti ECCELLENTI, 2 Prodotti Discreti

International Patent (C. Follo e C. Isidoro), PCT No. WO2008/065505 (5-06-2008).

LINK: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2008065505&redirectedID=true>

Bibliometric index and Scientific Publication list

PUBMED <https://www.ncbi.nlm.nih.gov/pubmed/?term=isidoro+c>

Google Scholar: <https://scholar.google.it/citations?user=X8Ie7K8AAAAJ&hl=it>

(Google Scholar H Index = 35; Citations = 8.214; Scopus H Index = 32)

Journal's cover

1. "Biological Chemistry" (*De Stefanis D, Reffo P, Bonelli G, Baccino FM, Sala G, Ghidoni R, Codogno P, Isidoro C. Increase in ceramide level alters the lysosomal targeting of cathepsin D prior to onset of apoptosis in HT-29 colon cancer cells. Biol Chem. 2002 Jun;383(6):989-99*)
2. "Brain Research" (*Cagnin M, Ozzano M, Bellio N, Fiorentino I, Follo C, Isidoro C. Dopamine induce apoptosis in APP^{swe}-expressing Neuro2A cells following Pepstatin-sensitive proteolysis of APP in acid compartments. Brain Res. 2012 Aug 30;1471:102-17.*)

INTERNATIONAL and NATIONAL CONFERENCES (ORGANIZER AND INVITED SPEAKER)

2018

- December 17-19, 9th **Invited Speaker** at International Conference on Nutrition and Physical Activity (NAPA2018), Hotel National, Taichung City, Taichung, Taiwan. <https://napa2018.weebly.com/>
- November 24-26 **Invited Keynote Speaker** at 19th International Congress of Oriental Medicine (ICOM), International Convention Center of National Taiwan University Hospital, Taipei, Taiwan.
- October 25-29 **Chair of the Scientific Committee and Organizer** of the International Workshop NO-Cancer 2018 "Novel approaches in Cancer Therapy". Novara (Italy) www.isidorolab.com
- July 23-25 **Head of the Organizing Committee and Keynote Speaker** of the International Conference "2nd World Congress on Cancer" focusing on "Oncology and Cancer therapeutics in the 21st century". Bologna, Italy. <http://colossalfacet.com/cancer-conference/>
- June 17-20 **invited Keynote Speaker** at International Conference ASIATOX2018, <http://asiatox.com/events/slide/index.html>
- March 15-19 **Invited Speaker and Session Chair (and founding member)** of the First international meeting of the International society of Precision Cancer Medicine in Busan, South Korea <http://2018busan.ispcm.org/intro01.html?activepage=1>

2017

- December 18th -20th **Invited Speaker** at International Conference on "Innovation in Cancer Research and Care" (To Honour Prof. Dr. HRH Princess Chulabhorn Mahidol On the Occasion of HRH's 60th Birthday Anniversary Celebration) 18 – 20 December 2017, CRI Convention Center, Bangkok, Thailand
- December 14th-15th **Co-Organizer and Distinguished Speaker** of the International Conference "AGING AND CANCER: mechanistic links and therapeutic opportunities" at Chulalongkorn University, Bangkok (Thailand).
- December 10th -13th **Invited Speaker** at 8th International Conference on Nutrition and Physical Activity (NAPA2017) December 10 – 13, 2017, Chiang Mai, Thailand <http://napa2017.net/conference/main.php>

- October 29th-30th Chair of the Scientific Committee and Organizer of the International Workshop "From Cancerogenesis to Cancer Therapy: new paradigms, new opportunities". October 29-30, 2017 Novara (Italy) <http://www.isidorolab.com/public/index.php/no-cancer-2017/>

2016

- **November 8th 2016 Co-Organizer and Distinguished Speaker** of the 2016 Annual International Medical Technology Conference "New Frontiers in Cancer and Stem Cell Researches: Trends in Novel Medical Diagnostics and Biomarkers", Conference Room, 7th Floor Chalerm Rajakumari 60 Building, Chulalongkorn University, Bangkok (Thailand). http://www.mtc.or.th/file_cpd/file1_1871.pdf
- **October 6th-7th 2016: President of the Organizing Committee** of the International Conference "BASIC TO TRANSLATIONAL MEDICINE: focus on Cancer", Università del Piemonte Orientale, Aula Magna Campus Medico 'Perrone', Novara (Italy) <http://www.isidorolab.com/public/index.php/btm2016-focus-on-cancer/>
- **August 26th - September 2nd, 2016 Co-Organizer, speaker and chairman** of the "3rd Annual Meeting of the International Ovarian Cancer Consortium and the Symposium on Tumor Microenvironment and Therapeutic Resistance". The University of Oklahoma Health Sciences Center, Stephenson Cancer Center, Oklahoma City (OK; US) <http://www.ovariancancerconference.com/>

2015

- **October 21st-24th, 2015 Member of the Organizing Committee** of the 6th Nutrition And Physical Activity (NAPA) Meeting in Taipei (Taiwan) <http://www.napa2015.org.tw/index.php>
- **October 24th-27th, 2015 Member of the Organizing Committee, session moderator and invited Speaker** of the 2nd International Conference on Traditional and Complementary Medicine on Health (ICTCMH2015) in Taipei (Taiwan) <http://www.ictcmh2015.org.tw/index.php>
- **October 20th 2015 Co-Organizer and Speaker** of the International Conference "Basic to Translational Medicine 2015", Siriraj Hospital – Medical School of Mahidol University of Bangkok (Thailand) http://www.si.mahidol.ac.th/th/departement/immunology/dept_news_detail.asp?n_id=230&dept_id=14
- **August 16th -22nd, 2015 Co-Organizer, speaker and chairman** of the "2nd Annual Meeting of the International Ovarian Cancer Consortium and the Symposium on Tumor Microenvironment and Therapeutic Resistance". The University of Oklahoma Health Sciences Center, Stephenson Cancer Center, Oklahoma City, Oklahoma, August 16-18, 2015. <http://sccdev.ouhsc.edu/Research/ResearchEventsandOther/OklahomaOvarianCancerConference/Organizers.aspx>

- May 18th-20th, 2015 **Co-Organizer, session moderator and invited Speaker** of the 1st International School on “NANOSTRUCTURED MATERIALS”, University of Saratov (Russian Federation)
- May 20th-24th, 2015, **Co-Organizer, session moderator and invited Speaker** of 6th International workshop on “Nanoparticles, Nanostructured Coatings And Microcontainers: Technology, Properties, Applications”, Saratov (Russian Federation) website: <http://nanoworkshop.sgu.ru/>
- April 1st-4th, 2015) **Invited speaker** at the International Conference of the Cancer Research Institute of Seoul National University, SNU-CRI Conference, Hwasun Kumho resort, Hwasun-gun, Jeollanam-do, South Korea

2014

- May 28th-30th, 2014. **Invited speaker** at the Royal Golden Jubilee PhD XV Congress in Jomtien-Pattaya (Thailand).
- April 15th, 2014. **Invited speaker** at the symposium on “Anticancer activity of Natural Products” organized by Prof. Yong Joon Surh at the Faculty of Pharmacy, University of Mokpo (South Korea).
- April 16th -19th, 2014. **Co-Organizer, speaker and chairman** of the special session on ‘Metabolism and Autophagy in Cancer’ of the International Conference of the Cancer Research Institute of Seoul National University, SNU-CRI Conference, Mokpo (South Korea).
- February 9th -11th, 2014 **Co-Organizer, speaker and chairman** of the special session ‘Cancer Metabolism’ of the “1st Annual Meeting International Ovarian Cancer Consortium: Tumor Microenvironment and Drug Discovery”. Stephenson Cancer Center, University of Oklahoma Health Sciences Center, Oklahoma City (US).

2013

- May 26th-28th, 2013 **Member of the local Organizing Committee and Invited Speaker** of the international conference “8th European Molecular Imaging Meeting - the EMIM 2013” (Torino, 26-28 Maggio 2013) <http://www.e-smi.eu/index.php?id=2577>
- May 22th-24th, 2013 **Co-Organizer and Invited Speaker** of International Congress SMITH2013 “Society of Molecular Imaging of Thailand” (Chiang Mai, Thailand, 2013)

2012

- Sept 29th- Oct 2nd, 2012 **Co-Organizer** (with Phil Beart) **and Invited Speaker** of the Symposium “Autophagy and Proteasome cross-talk in Neuropathophysiology” joint to the International Congress 11th Biennial Meeting of the Asia-Pacific Society for

Neurochemistry and 55th Annual Meeting of Japanese Society for Neurochemistry” in Kobe (Japan).

- *April 6th-8th, 2012. Invited speaker* at the Royal Golden Jubilee Ph.D XIII Congress in Jomtien-Pattaya (Thailand).
- *April 3rd, 2012 Invited Speaker* at International Minisymposium "Understanding Cancer Pathogenesis and Progression for Early Detection and Therapy", Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok (Thailand).
- *April 5th, 2012 Invited Speaker* at Workshop on Natural Product-Based Drug Discovery, Department of Chemistry, Faculty of Science, Ramkhamhaeng University, Bangkok (Thailand).
- *May 16th-20th, 2012 Invited Speaker* at International Symposium on Cell Biology jointly with 3rd Ukrainian Congress of Cell Biology, Yalta (Ukraine)
- *May 24th-26th Invited Speaker* at 48° Congresso Nazionale dell'Associazione Italiana di Neuropatologia e Neurobiologia Clinica (AINPeNC) congiunto con il 38° Congresso Nazionale dell'Associazione Italiana per la Ricerca sull'Invecchiamento Cerebrale (AIRIC), Napoli (Italy).
- *November 29th - December 3rd, 2012 Invited Speaker* at The 7th Princess Chulabhorn International Science Congress (PC VII), Bangkok (Thailand)
- *December 6th-8th, 2012 Invited Speaker* at The 2nd International Anatomical Sciences and Cell Biology Conference, 36th Annual Conference of the Anatomy Association of Thailand (IASCBC 2012/AAT36), Chiang Mai (Thailand)
- *December 19th-22nd, 2012 Invited Speaker* at The Molecular Medicine Conference 2012 (MMC2012) focusing on “Alternative Strategies against Cancer and Inflammation”, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (Thailand)

2011

- *April 1st-3rd, 2011 Invited Speaker* at The Royal Golden Jubilee Ph.D.Congress XII, Jomtien-Pattaya (Thailand)
- *April 11th-13th, 2011 Invited Speaker* at First Annual Conference of Center of Excellence for Molecular Imaging's (CEMI) “Imaging Biomarkers: from research to clinical translation”, Chiang Mai University (Thailand)

2010

- *March 24th-28th, 2010 Invited Speaker* at 6th Conference on Experimental and Translational Oncology (CETO) in Kranjska Gora (Slovenia)
- *May 14th-17th, 2010 Invited Speaker* at the International Conference “Early Cancer Detection: Environmental, Biomarkers and Mechanisms” (ECDO), Università degli Studi “Magna Grecia”, Catanzaro (Italy)
- *September 30th-October 1st, 2010 Selected Speaker* at the 6th Swiss Apoptosis Meeting (SAM), Bern (Switzerland)

2005-2009

- *April 4th-6th, 2008 Invited Speaker* at The Royal Golden Jubilee Ph.D. Congress IX, Jomtien-Pattaya (Thailand)

- *December 20th, 2007* **Organizer** of the International Workshop on “Nanotechnology and Bioimaging: novel approaches in diagnosis and drug delivery”, Università del Piemonte Orientale, Novara (Italy)
- *December 4th, 2006.* **Organizzatore** del convegno “Farmaci: istruzioni per l'uso (indipendente) Ricerca e Formazione, Promozione e Informazione”, in collaborazione con Università del Piemonte Orientale, Azienda Ospedaliera “Maggiore della Carità” di Novara e Dipartimento di Farmacia Clinica e Farmacologia, Novara (Italy)
- *November 10th-11th, 2006* **Invited Speaker** at the NIS Colloquim “Nanosized Systems for Molecular Imaging”, Torino (Italy)
- *September 21st-25th, 2005* **Invited Speaker** at The VIth Meeting of the Slovenian Biochemical Society, Lipica (Slovenia)
- *October 16th-20th, 2005* **Selected Speaker** at the 4th General Meeting of the International Proteolysis Society, Quebec City (Canada)
- *November 9th-12th, 2005* **Invited Speaker** at The First International Congress of Physiological Sciences of Serbia and Montenegro “Molecular, cellular and integrative basis of health, disease and therapy” Belgrade (Serbia)

2000-2004

- *March 6th-9th, 2003* **Invited Speaker** at the Workshop on “Cellular Transport and Strategies for targeting Epitopes, Drugs and Reporter Molecules”, Budapest (Hungary)
- *October 6th-9th, 2002* **Selected Speaker** at the 1st Cell Death and Differentiation Conference & 4th International SASS Foundation Conference “Apoptosis in Cancer and Infection” Capri (Naples, Italy)
- *June 16th-20th, 2001* **Invited Speaker** at the Vth International Symposium on Proteinase and Biological control, Brdo/Portoroz (Slovenia)
- *October 31st-November 4th, 2001* **Selected Speaker** at 2nd General Meeting of the International Proteolysis Society, Freising/Muenich (Germany)
- *December 7th-8th, 2001* **Invited Speaker** at Joint meeting of Cost Action on Mammary Development, Function, Cancer, Ayr (Scotland)

1995-1999

- *October 20, 1995* **Co-Organizer** (with G. Gaudino) of the International Workshop on “Physiology and Pathology of intracellular protein and lipid traffic”, sponsored by Università di Torino, II Facoltà di Scienze MFN in Alessandria (Italy)

INVITED SEMINARS AND LECTURES

2015-2019

April 18th, 2018 **Seminario** su *Giovani e sani? Si puo'... ma solo se mangiamo meno... e "ci mangiamo un po' di noi stessi"* Progetto Lauree Scientifiche, Università del Piemonte Orientale, Dipartimento di Scienze della Salute, Novara, Italy.

April 16th, 2018 **Seminario** *L'autofagia, ovvero "mangiare un po' di sé stessi" per rimanere giovani e sani* presso ROTARY CLUB MONCALIERI DISTRETTO 2031, Moncalieri (Torino), Italy.

March 21st, 2018 **4th Special Seminar**, “2016 Nobel Prize Topic Series” on Autophagy (Autophagy in inflammatory and Autoimmune Diseases), Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (Thailand)

March 20th, 2018 **Special Seminar** “*Imaging the Disease*”, Faculty of Allied Health Sciences, Department of Clinical Biochemistry, Chulalongkorn University, Bangkok (TH)

January 25th, 2018 **Invited Seminar** on “The role of autophagy in cancer and its epigenetic modulation by Resveratrol” at Department of Health Sciences, University of Milan, Milan, Italy.

July 7th, 2017 **Invited Seminar** on “The regulation of the autophagy-lysosomal pathway in cancer” at Department of Obstetrics & Gynecology, National Taiwan University Medical College & Hospital, Taipei, Taiwan.

July 5th, 2017 **Invited Seminar** on “*Resveratrol Contrasts Cancer Cell Invasion Through Induction of Autophagy: Mechanisms and Pathways*” at Taipei Tzu Chi Hospital, Taipei, Taiwan.

April 9th-12th, 2017 **Distinguished Guest and Invited Speaker** of the COBRE & Center for Basic Cancer Research, Peggy and Charles Stephenson Cancer Center, Oklahoma City (OK, US) (hosted by Prof. Danny Dhanasekaran).

April 13th-14th, 2017 **Special Guest and Invited Speaker** at the *Integrated Cancer Research Center*, School of Biological Sciences, Georgia Institute of Technology, Atlanta (GA, US) (hosted by Prof. John Mc Donald)

March 15th, 2017 **3rd Special Seminar**, “2016 Nobel Prize Topic Series” on Autophagy, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (Thailand)

March 8th, 2017 **2nd Special Seminar**, “2016 Nobel Prize Topic Series” on Autophagy, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (Thailand)

November 30th, 2016 **1st Special Seminar**, “2016 Nobel Prize Topic Series” on Autophagy, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (Thailand)

October 29th – November 6th, 2016 Taipei, National Taiwan University – Editorial Office of Journal of Traditional and Complementary Medicine. **Seminars** at Taipei City Hospital and at National Taiwan University in Taipei.

March 31st and April 6th, 2015 **Invited Lectures** at the Research Institute of Pharmaceutical Sciences, Faculty of Pharmacy, Seoul National University, Seoul (South Korea) (hosted by Prof. Marc Diederich).

April 15th – 23rd 2015 Taipei, National Taiwan University – Editorial Office of Journal of Traditional and Complementary Medicine. **Seminars** at National Research Center of Chinese Medicine in Taipei and at Medical University of Chinese Medicine in Taichung (Taiwan).

May 26th 2015 **Invited seminar** at Department of Chemistry, University of S. Petersburg (Russian Federation)

May 29th 2015 **Invited seminar** at Department of Physics, University of Moscow (Russian Federation)

October 21st, 2015 **Special Seminar** at Department of Clinical Biochemistry, Faculty of Allied Health Sciences, Chulalongkorn University of Bangkok (Thailand).

2010-2014

October 5th-11th, 2014 **Distinguished Guest and Invited Speaker** of the COBRE & Center for Basic Cancer Research, Peggy and Charles Stephenson Cancer Center, Oklahoma City (OK, US) (hosted by Prof. Danny Dhanasekaran).

June 6th, 2014 **Invited Lecture** at the Department of Dermatology, Faculty of Medicine and Pharmacy, Université de Franche-Comté, Besancon (France) (hosted by Prof. Philippe Humbert).

February 6th, 2014 **Invited Seminar** at the MD Anderson Cancer Center of Houston, Department of Experimental Therapeutics, Division of Cancer Medicine, University of Texas (TX, US) (hosted by Prof. Robert Jr Bast)

February 13th, 2014 **Special Guest and Invited Speaker** at the Integrated Cancer Research Center, School of Biological Sciences, Georgia Institute of Technology, Atlanta (GA, US) (hosted by Prof. John Mc Donald)

April 21st, 2014 **Invited Seminar** at the Department of Obstetrics and Gynecology, Seoul National University Bundang Hospital, Seoul, South Korea.

April 22nd, 2014 **Invited Seminar** at the Research Institute of Pharmaceutical Sciences, Faculty of Pharmacy, Seoul National University, Seoul, South Korea (hosted by Prof. Marc Diederich)

February 2012 **Special Lectures** "Autophagy", "miRNA and Cancer" and "Lysosomal Storage Disease" to Master Courses, Faculty of Medicine and Surgery, University of Malta Medical School, Malta.

November 2012 **Special Seminars** "Biogenesis and Pathophysiological role of the lysosomal protease Cathepsin D: from Petridish to Zebrafish" and "Regulation of Autophagy, and its role in Health and Disease" at Department of Chemistry Faculty of Science Ramkhamhaeng University, Bangkok (Thailand)

November 2012 **Special Seminars** "Role of the autophagy-lysosomal proteolysis in Neurodegeneration" and "Mechanisms of Resveratrol toxicity in cancer cells" at Srinakharinwirot University, Bangkok (Thailand)

November 2012 **Special Lecture** "Guidelines for writing grant applications in biomedical sciences" at Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok (Thailand)

November 2012 **Special Lecture** "Autophagy", "miRNA and Cancer" and "Lysosomal Storage Diseases" at Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok (Thailand)

April 7th, 2011 **Special Seminar** "Autophagy as a potential target in cancer therapy" Faculty of Medicine, Chulalongkorn University, Bangkok (Thailand)

April 9th, 2011 **Special Seminar** at Faculty of Medicine, Thammasat University, Bangkok, (Thailand)

April 10th, 2011 **Special Seminar** at Chulabhorn Research Institute in Bangkok (Thailand)

September 26th, 2011 **Invited Seminar** "Autophagy, a Potential Target for Prevention and Therapy of Cancer" at Fondazione IRCSS, Istituto Nazionale Tumori, Milano (Italy)

October 7th, 2011 **Invited Lecture** “Pathway mTOR: nuovo target nella terapia anti-neoplastica” at IV Giornata di Studio sui Tumori Neuroendocrini, Novara (Italy)

February 25th, 2010 **Invited Seminar** “Live and let die: that’s autophagy, bello!” at Dipartimento di Sanità Pubblica e di Microbiologia, CERMS, Università degli Studi di Torino (Italy)

June 13th, 2010 **Invited Seminar** “Modulating autophagy to cure cancer: instructions for use” at Istituto Clinico Humanitas Università degli Studi di Milano (Italy)

November 4th, 2010 **Special Seminar** “In cell imaging of vesicular traffic with fluorescent nanoparticles” at Scuola di Dottorato in Fisiologia-Farmacologia-Tossicologia Molecolare e Cellulare, Università degli Studi di Siena (Italy)

November 23th, 2010 **Invited Seminar** “Exploiting canonical and non-canonical Autophagy in cancer therapy” at Istituto Superiore di Sanità (hosted by Dr E. Dogliotti), Roma (Italy)

2005-2009

September 8th-11th, 2009 **Invited Lecture** “NanoBioTechnology in Molecular Medicine: imaging Vesicular Traffic in the cell” at Prima Scuola Estiva di Nanobiotecnologie, Villa Gualino, Torino (Italy)

March 8th, 2008 **Invited Lecture** “Nanobiotecnologie per la diagnosi e l’imaging dei tumori” at 1° giornata di studio sui Tumori Neuro-Endocrini (NET), Novara (Italy)

April 9th, 2008 **Invited Seminar** “Involvement of the autophagy-lysosomal system in the response to anticancer drugs” at *Chulabhorn Research Institute*, Bangkok (Thailand)

April 10th, 2008 **Invited Seminar** “The impact of autophagocytosis, endocytosis and lysosomal proteolysis in the pathogenesis of neurodegenerative disease” at Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok (Thailand)

July 1st, 2008 **Invited Seminar** “The autophagy-apoptosis paradox: lessons from cancer and neurodegeneration” at School of Pharmacy, Università degli Studi “Magna Grecia” di Catanzaro (Italy)

September 2008 **Invited Seminar** “Role and regulation of autophagy in neurodegeneration” at *University Research Centre for Neuroendocrinology*, University of Bristol (UK) (hosted by Prof. David Murphy)

October 2008 **Invited Seminar** “The complex regulation of autophagy in neurodegeneration: a genetic approach to dissect the signalling pathways” University of Illinois in Chicago (US) (hosted by Dr Douglas Feinstein)

June 12th, 2007 **Invited Seminar** “Resveratrol cytotoxicity in colorectal cancer cells: the role of the autophagy-lysosomal pathway” *Istituto Multimedica Meeting*, Milano (Italy) (hosted by Dr Adriana Albini)

June 22nd, 2007 **Invited Seminar** “Chemotherapy killing of cancer cells through activation of the autophagy-lysosomal pathway” at *Cancer Research laboratory*, London Research Institute, London (UK) (hosted by Prof. Sharon Tooze)

April 27th, 2007 **Invited Seminar** “Lysosomal pathway to cell death in the response to chemotherapy drugs in cancer cells” at Institute of Molecular Biology and Genetics, Mahidol University, Salaya Campus, Bangkok (Thailand)

May 1st, 2007 **Invited Seminar** “Oxidative stress, misfolded proteins and neurodegeneration: the role of autophagy” at Institute of Molecular Biology and Genetics, Mahidol University, Salaya Campus, Bangkok (Thailand)

October 2005 **Invited Seminar** “The control of cell survival and cell death by lysosomal cathepsins and caspases: lessons from cancer and neurodegeneration” at Department of Pharmacology, Wayne State University of Detroit (MI, USA) (hosted by Prof. Bonnie F Sloane)

SCIENTIFIC COLLABORATIONS (ON GOING)

1. Wanpen Chaicumpa, Center of Excellence on Therapeutic Proteins and Antibody Engineering, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok (TH) (viral infection, antibody therapy and autophagy)
2. Eugenia Dogliotti, Istituto Superiore di Sanità, Roma (autophagy, DNA damage, skeletal muscle differentiation)
3. Danny Dhanasekaran, Stephenson Cancer Center, University of Oklahoma Health Science Center, Oklahoma City (OK 73104, US) (Long Non Coding RNA and epigenetic regulation of autophagy in ovarian cancer)
4. Benjamin K. Tsang, Departments of Obstetrics & Gynecology and Cellular & Molecular Medicine, and Interdisciplinary School of Health Sciences, University of Ottawa (Canada) (autophagy and ovary polycystic syndrome)
5. Gwenal Rolin and Philippe Humbert, Département de Dermatologie et Centre d'Investigation Clinique, Université de la Franche-Comté, Besançon (France) (autophagy and cheloids).
6. Paul Saftig, Unit of Molecular Cell Biology and Transgenic Research, Institute of Biochemistry, Medical Faculty, University of Kiel, Germany (Cathepsin D and lysosomal storage diseases)
7. John McDonald « Integrative Cancer Research Center of the Georgia Institute of Technology », Georgia Tech University, Georgia (Atlanta, US) (autophagy and ovarian cancer stem cells)
8. Hans Baeumler, Institute of Transfusion Medicine, Berlin-Brandenburg Center for Regenerative Therapies, Charité – Universitätsmedizin Berlin (Germany) (nanotheranostics, in cell imaging)
9. Lorenzo Tei and Mauro Botta, Dipartimento di Scienze e innovazione Tecnologica, Università del Piemonte Orientale (Alessandria, Italy) (nanotheranostics, in cell imaging)
10. Prasert Sobhon, Faculty of Sciences, Mahidol University (Bangkok, TH) (autophagy and prawns reproduction)
11. Chanitra Tuwajit and Peti Tuwajit, Siriraj Hospital Medical School, Mahidol University (Bangkok, TH), (autophagy and cancer associated fibroblasts in ovarian cancer)
12. Puangrat Yongvanit and Nisana Namwat, Khon Kaen Center of Excellence for Cholangiocarcinoma (Khon Kaen, TH), (autophagy and cholangiocarcinoma)
13. Xin Zhang, Stephenson Cancer Center and Department of Physiology, University of Oklahoma Health Science Center, Oklahoma City (OK 73104, US), (role of metastasis suppressor CD82 in the regulation of autophagy in prostate cancer)
14. Vincenzo Mollace, Università di Catanzaro (characterization of nutraceuticals for use in Complementary Medicine).

SCIENTIFIC COLLABORATIONS (PAST)

15. Tewin Tencomnao, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand, (autofagia e UVB skin carcinogenesis)
16. Bonnie F. Sloane, Department of Pharmacology della Wayne State University di Detroit, USA (Biogenesis and function of lysosomal Cathepsins)
17. David Murphy, Henry Wellcome Laboratories for Integrative Neuroscience and Endocrinology, University of Bristol, Gran Bretagna (autophagy and neurodegenerative diseases)

18. Andrej Hasilik, Institute fuer Physiologische Chemie, Klinikum der Philipps-Universitaet Marburg, Germany (Biogenesis and function of lysosomal Cathepsins)
19. Michelle Ollivier, INRA Unité Génomique et Physiologie de la Lactation, Jouy-en-Josas, CEDEX, France (Role of Cathepsin D in mammary gland physiology)
20. Duncan Smith, Insitute of Molecular Biology and genetics, Mahidol University, Bangkok, Thailand (Autophagy and Dengue virus infection)
21. Tamara Lah, National Institute of Biology, Ljubljana, Slovenia, (Cathepsins and glioblastomas)
22. Francesco Fornai, Università di Pisa, Italy (Autophagy and neurodegeneration)
23. Salvatore Coluccia, Dipartimento di Chimica, Università di Torino, Italy (Nanotheranostics, in cell imaging)
24. Emanuele Albano and Rita Carini, Dipartimento di Scienze della Salute, Università del Piemonte Orientale di Novara, Italy (lysosome and hepatocyte preconditioning)
25. Guido Valente, Laboratorio di Anatomia Patologica, Dipartimento di Medicina Traslazionale, Università del Piemonte Orientale di Novara, Italy (cancer biomarkers)

GRANTS and FINANCIAL SUPPORTS

Dipartimento di Scienze della Salute (fondi Ricerca di Ateneo). Progetto biennale 2017-2018 (dal 1° Giugno 2017). Euro 45.000.

Fondazione Compagnia S. Paolo-Università del Piemonte Orientale, Progetto THERASIL (biennale dal 10/6/2015), Responsabile U.O. (Coordinatore Prof. L. Tei). Finanziamento 100.000, di cui 25.000 all'U.O.

FP7- PEOPLE MARIE CURIE ACTIONS International Research Staff Exchange Scheme Call: FP7-PEOPLE-2013-IRSES. Project "*DINaMiT*" Dual-Imaging Nano/Micro-sized Theranostics (Partner Responsabile italiano, coordinatore europeo Prof. H. Baumlér). Finanziamento triennale (1 Agosto 2013-1 Agosto 2016)

PRIN 2013-2015 Progetto "Neurodegeneration vs Neuroprotection: role of estrogen-induced neuroglobin expression". (Coordinatore nazionale Prof. Ascenzi). Finanziamento biennale. (Collaboratore esterno U.O. Prof.ssa Melone, Napoli).

Privati: Comoli, Ferrari & SpA (Novara). Erogazione liberale - Contributo alla Ricerca (Progetto biennale + rinnovo annuale = triennio 2011-2014; totale Euro 60.000)

Privati: Cyanine Technologies SpA - Pianeta Srl (Torino). Co-finanziamento Borsa di dottorato triennale (2010-2013).

Poli di Innovazione Tecnologica (Regione Piemonte). Bando pubblico Assessorato all'Innovazione, Ricerca e Università. Progetto BioActiveNanoPerticles (BANP) as theranostics in cancer (Responsabile Unità Operativa) Maggio 2010- Maggio 2013.

Fondazione Compagnia di San Paolo, Bando Nazionale Programma Neuroscienze. Progetto "Modulation of autophagy as a novel therapeutic approach in neurodegenerative diseases" (Coordinatore Nazionale). (Finanziamento triennale 2009-2011)

Fondazione Cassa Di Risparmio Di Torino. Progetto Il Resveratrolo, un potenziale chemioterapico per il Glioblastoma. Finanziamento biennale 1 Gennaio 2009 - 31 Dicembre 2010 (Euro 30.000)

PRIVATI: Comoli-Ferrari SpA (Novara). Finanziamento di una borsa di dottorato triennale (2008-2011).

PRIVATI: Comoli-Ferrari SpA (Novara). Donazione liberale (2008) per l'acquisto di un Microscopio a Fluorescenza (valore 50.000 euro).

Fondazione Cassa Di Risparmio Di Torino. Progetto "Espressione Genica e Meccanismo Molecolare d'azione dell'oncosoppressore Beclin 1 nel Cancro: Implicazioni nella Resistenza ai Farmaci Antitumorali". Finanziamento triennale (1 Nov 2005-31 Ott 2008).

PRIVATI: Donazioni liberali da Aziende Farmaceutiche (Nycomed; WYETH Lederle SpA) (2008)

Consorzio InterUniversitario in Biotecnologie (Bando pubblico nazionale). progetto: "The reciprocal regulation of autophagy and apoptosis in neuronal cells expressing the beta-amyloid: implication for Beclin as the molecular switch of pro-survival to pro-death function of autophagy in Alzheimer's Disease". Finanziamento biennale (1 Marzo 2006 - 1 Marzo 2008) per il (Responsabile di U.O.).

Lega Italiana per la Lotta contro i Tumori (sez. di Novara). Progetto: "Prevenzione del carcinoma del colon-retto: indagini molecolari sugli effetti antitumorali di polifenoli e retinoidi". Finanziamento triennale (1/1/2004-31/12/2006)

Conferenza dei Rettori delle Università Italiane (CRUI): progetto "Galileo". Contributo biennale (2005-2007) per la collaborazione con Dr.ssa Michelle-Ollivier dell'INRA di Jouy-en-Josas (Parigi).

Regione Piemonte, Assessorato alla "Tutela della Salute e Sanità". Bandi pubblici per la Ricerca Sanitaria Finalizzata. Finanziamenti a progetti vari dal 2004 al 2010.

Regione Piemonte, Assessorato all'Innovazione, Ricerca e Università su bando pubblico "CIPE 2004-2006 Biotecnologie e Scienze della Vita" (seconda tranche 08-05-2006 al 31-12-2008). Progetto: "Identificazione di proteine regolatrici l'autofagia e l'apoptosi nelle malattie neurodegenerative mediante analisi proteomica e transcriptomica" (coordinatore responsabile).

Consorzio InterUniversitario in Biotecnologie. Bando pubblico Nazionale. Progetto: "Controllo della via autofagica-lisomica e morte cellulare in un modello di malattia neurodegenerativa: ricerca di geni regolatori". Finanziamento biennale (1 Gennaio 2004 – 31 Dicembre 2005).

Legg Italiana per la Lotta contro i Tumori (sez. di Novara). Progetto: "Prevenzione del carcinoma del colon-retto: indagini molecolari sugli effetti antitumorali di polifenoli e retinoidi". Finanziamento triennale (1 Gennaio 2004 – 31 Dicembre 2006). MIUR- Cofin-PRIN (2001-2003): Progetto: "Endosome as a signalling compartment for cytokine-induced ceramide-mediated apoptosis in cancer cells" (Responsabile di U.O.; Coordinatore Nazionale Prof. G. Ghidoni, Università di Milano). Finanziamento biennale 12/4/2002 – 22/1/2004.

Centro Nazionale delle Ricerche (CNR). Bando Nazionale Progetto finalizzato Biotecnologie. Progetto "Role of GTPases and of second messengers in intracellular trafficking and secretion of biologically active molecules". Finanziamento triennale 1/3/1998-2001.

MIUR- Cofin-PRIN (1999-2000): Progetto "Attività fibrogenica di proteine modificate in modo ossidativo: ruolo dell'uptake e della degradazione intracellulare" (componente U.O. Prof. G. Bellomo, Università del Piemonte Orientale). Finanziamento biennale.

MIUR- Cofin-PRIN (1998-1999): Progetto "Proteasi citosoliche e vacuolari nella morte cellulare per apoptosi" (componente U.O. Prof. G. Bonelli, Università di Torino). Finanziamento biennale.

MIUR – Cofin - PRIN (1997): Progetto "Apoptosi in cellule neoplastiche e preneoplastiche: effetto della manipolazione di sistemi proteolitici intracellulari" (Componente dell'U.O. Prof. G. Bonelli, Università di Torino; Responsabile degli esperimenti condotti a Novara) (12 mesi dal 15/2/1998)

Associazione Italiana per la Ricerca sul Cancro AIRC (1997-2000): Progetto: "Lysosomal Cathepsin D expression and tumor development and progression". (Responsabile di U.O.) Finanziamento triennale.

Fondazione Ottolenghi-Università di Torino: borsa di studio ad un collaboratore sul progetto "Possible involvement of the lysosomal cathepsin D in neuronal cell death and differentiation".

Fondi MIUR-Università Ricerca Locale (ex 60%) dal 1993 al 2008, regolarmente.

INTERNATIONAL SCIENTIFIC SOCIETY MEMBERSHIP

- International Society of Precision Cancer Medicine (founder member)
- International Association of Traditional and Complementary Medicine (Executive Vice President)
- Società Italiana di Patologia (dal 1990 al 2008)
- International Proteolysis Society (socio fondatore dal 1999 a oggi)
- Associazione Italiana di Biologia Cellulare e del Differenziamento (ABCD) (dalla fondazione a oggi)
- Italian Society of Pathology (SIP)
- Italian Society of Cancerology
- European Cancer Society

- European Cell Biology Society
- Asian Pacific Society for Neurochemistry
- European Society Molecular Imaging
- European Society for Neurochemistry

Language skills (speaking, reading, writing)

English (excellent), German (very good), French (good).

Data: Novara, June 4th, 2018

Firma



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