

CURRICULUM VITAE

Roberto Toni M.D., Ph.D.

Born

November 6, 1957 - Bologna, Italy

Social

Married, one daughter

Current international and national professional positions



- Adjunct Professor of Medicine, Department of Medicine Division Endocrinology, Diabetes and Metabolism, Tufts Medical Center, Tufts University School of Medicine Boston, MA, USA

LinkedIn: <https://www.linkedin.com/in/roberto-toni-md-phd-309101103>

- Senior Founder, Laboratory of Regenerative Morphology and Bioartificial Structures, Department of Medicine and Surgery, University of Parma, Parma, Italy

<https://mc.unipr.it/it/laboratorio-di-morfologia-rigenerativa-e-strutture-bioartificiali>

- Research Associate, ISSMC - CNR, Faenza, Italy

<https://www.issmc.cnr.it/chi-siamo/personale/>

Education

Classic High School "L Galvani", Bologna, Italy, (Certificate in 1976)

1976-1982

Faculty of Medicine and Surgery, University of Bologna, Italy

1976 - 1982

Pre-doctoral fellow, Institutes of Human Anatomy (laboratory Prof. F.A. Manzoli) and Biological Chemistry (laboratory Prof. C.M. Caldarera), University of Bologna, Italy.

MD in 1982 (Magna Cum Laude, Honor in Biological Chemistry)

June 1978

Pre-doctoral fellow, Cardiothoracic Institute, University of London, Great Britain (laboratory Prof. Winifred Nayler)

September-November 1979, January-March 1980, June 1982

Pre-doctoral fellow, III Department of Biochemistry, Swiss Federal Institute of Technology, Zurich, Switzerland (laboratory Prof. Ernesto Carafoli)

Postgraduate Training

June 1985

International Postgraduate Course "Nuclear Magnetic Resonance in the Life Sciences", organized by the International School of Pure and Applied Biostructure, "Ettore Majorana" International Center, Erice, Italy

- September 1985* International Postgraduate Advanced Course on " Isolation and Characterization of Membrane Proteins: Biochemical and Biophysical Aspects", organized by the Federation of European Biochemical Societies (FEBS) at the University of Parma, Italy
- July 1986* Visiting fellow, Endocrinology Division, Department of Medicine, New England Medical Center-Tufts University, Boston, MA, USA (laboratories Proff. Seymour Reichlin and Ronald M. Lechan)
- February 1987* Visiting fellow, Department of Histology, Karolinska Institutet , Stockholm, Sweden (laboratory Prof. Kjiell Fuxe)
- September 1987 - November 1989* Fogarty International Research Fellow in Endocrinology, National Institutes of Health (NIH), Endocrinology Division, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA (laboratories Proff. Seymour Reichlin e Ronald M. Lechan).

Fellowship and Traineeship Grants

- 1985* NATO Advanced Institute Fellowship by the International Postgraduate Advanced Course "Nuclear Magnetic Resonance in Life Sciences", Ettore Majorana International Center, Erice, Italy
- 1986* Travel Grant of the Italian Ministry of Education as "Visiting Fellow", Division of Endocrinology, New England Medical Center-Tufts University, Boston, MA, USA.
- 1987* Travel Grant of the Italian Ministry of Education, as "Visiting Fellow", Department of Histology, Karolinska Institutet, Stockholm, Sweden
- 1987-1989* Fogarty International Research Fellowship Award 1F05TWO3924, Department of Public Health, National Institutes of Health (NIH), USA entitled "Neuroendocrine regulation of TRH in the hypothalamic paraventricular nucleus"
- 1988* Travel Grant of the Italian Ministry of Education as "Research Fellow," Division of Endocrinology, New England Medical Center-Tufts University, Boston, MA, USA
- 1989-1990*
- Traineeship Grant from the Italian National Research Council (CNR -Italy) AI8900133604 and Traineeship Fund of the Endocrine Division, New England Medical Center-Tufts University, Boston, MA, USA, as "Visting Scientist"
 - Travel Grant of the Italian Ministry of Education, 71th Meeting of the Endocrine Society, Seattle, Washington, USA, and 4th Meeting of the European Neuroendocrine Association, Santiago de Campostela, Spain
 - Travel Grant by the Ares-Serono Symposia for an original contribution in the field of neuroendocrine research at the International Symposium "Endocrinology Under 35", Florence, Italy, October 1990

International Professorships

- June 1990-1995* Visiting Scientist, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center-Tufts University, Boston, MA, USA (laboratories Prof. Seymour Reichlin e Ronald M Lechan)
- June 1994* Visiting Scientist, Molecular Endocrinology Laboratory, University of Massachusetts School of Medicine, Worcester, MA, USA (laboratory Dr. Jack. L. Leonard)
- October 1994* Visiting Professor and Guest Lecturer, Departement de Médecine, Division d'Endocrinologie, Unitè de Recherche Thyroïdienne, Hopital Cantonal Universitaire, Geneva, Switzerland (clinics Prof. Alfred Burger)
- June 1996-2003* Visiting Professor and Guest Lecturer, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA (clinics and laboratory, Prof Ronald M Lechan)
- June 2004-present* Guest Lecturer, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center -Tufts University, Boston, MA, USA (clinics and laboratory, Prof Ronald M Lechan)

Board Certifications

- 1982* Italian Board of Medicine and Surgery (70/70)
- 1983* Subspecialty Board of Clinical Ultrasonography, University of Bologna School of Medicine, Bologna, Italy
- 1987* Italian Board of Internal Medicine (Magna Cum Laude)
- 1990* Italian Subspecialty Board of Endocrinology (Magna Cum Laude)

National and International Faculty / Research Institutional Appointments

- 1984-1987* Research Associate of Human Morphology, University of Chieti School of Medicine, Chieti, Italy
- 1987-1990* Associate Professor of Human Anatomy, University of Chieti School of Medicine, Chieti, Italy
- 1989* Instructor in Medicine, Tufts University School of Medicine, Boston, MA, USA
- 1990-2000* Associate Professor of Clinical Anatomy, University of Bologna School of Medicine, Bologna, Italy
- 2000 - 2023* Professor of Human Anatomy, University of Parma School of Medicine, Parma, Italy

<i>2010 - 2015</i>	Scientific Director, Museum of Human Anatomy, Pharmacology, and Forensic Medicine, University of Parma, Parma, Italy
<i>2016 - 2023</i>	Scientific Director, Museum and Historical Library of Biomedicine - BIOMED, University of Parma, Parma, Italy, website: www.anfamedmuseo.unipr.it
<i>2003 - present</i>	Adjunct Professor of Medicine, Tufts Medical Center - Tufts University School of Medicine, Boston, MA, USA
<i>2023 - present</i>	Research Associate, ISSMC - CNR, Faenza, Italy

Hospital Appointments / Clinical Responsibilities

<i>1983-1987</i>	Intern and Resident, Department of Internal Medicine, Bellaria Hospital, University of Bologna School of Medicine, Bologna, Italy
<i>1987-1989</i>	NIH Fogarty International Research Fellow, Endocrinology Division, New England Medical Center Hospitals, Boston, MA, USA
<i>1989 - 1990</i>	Resident, Department of Endocrinology, University Hospital, University of Modena School of Medicine, Modena, Italy
<i>1991-1993</i>	Consultant in Clinical Neuroendocrinology, Imola Hospital, Imola (Bologna), Italy
<i>1996 - 1998</i>	Associate Physician and Head Endocrinology Outpatient Clinic, Department of Internal Medicine and Endocrinology, Bellaria Hospital, University of Bologna School of Medicine, Bologna, Italy
<i>2002-2006</i>	Clinical Consultant in Endocrinology and Metabolism, International Foundation and Clinic "G.B. Morgagni", Catania, Italy
<i>2010 - 2014</i>	Clinical Consultant in Endocrinology and Metabolism, Clinical Center "Forni", Bologna - Department of Biomedical, Biotechnological and Translational Sciences, University of Parma, Parma, Italy
<i>2013 - 2019</i>	Clinical Consultant in Endocrinology and Metabolism, Interdepartment Center for Sport and Exercise Medicine, University of Parma, Parma, Italy
<i>2018 - present</i>	Chief Endocrinology, Diabetology, Metabolism, and Eating Disorders Clinic, Medical Center "Galliera", San Venanzio - Galliera (BO)

Awards and Honors

<i>1982</i>	Vittorio Emanuele II Prize, University of Bologna, for the best dissertation in Medicine, academic year 1981-82
	Angelo Piazza Prize, University of Bologna, for the best examination in Forensic Medicine, academic year 1981-82

- 1985 Award of the Italian Society of Ultrasonology in Internal Medicine, for a research study of clinical anatomy presented at the International Congress of Ultrasonology, Rome, November 1985
- 1987 Francesco. Schiassi Prize of the Medical and Surgical Society of Bologna, for young clinical investigators less than 30 years old .
- 1989 Award of the Italian Society of Ultrasonology in Medicine and Biology, for a research study of clinical anatomy presented at the II International Congress of Ultrasonology, Rome, December 1989
- 1990 Award of President's Evening Selection Poster, 72nd Meeting Endocrine Society, Atlanta, Georgia, USA, June 1990
- 2002 Award of the Italian Thyroid Association for a clinical research study on new technologies for imaging reconstruction of the thyroid gland and detection of hyperfunctioning thyroid nodules, Pisa, XX Giornate Italiane della Tiroide, December 5-7, 2002
- 2004 The European Dana Alliance Recognition Award for Brain Awareness Week 2004, London, UK, May 25, 2004
- 2005 Corresponding Member, Academy of Sciences,, Bologna, Italy, November 7, 2005
- 2011 Academicus Benedectinus, Academy of Sciences, Bologna, Italy, July 18, 2011
- 2017 Curator, International Historical and Scientific Exposition "The Fabric of the Bodies: from Anatomy to Robotics", Palace of the Governor, Parma, Italy, October 14 - December 17, 2017
- 2018 President, 72nd National Congress, Italian Society of Anatomy and Histology (SIAI), Parma, September 20-22, 2018
- Nominee by the Italian Ministry of Foreign Affairs to the national selection for a position as Scientific Attachè at the General Consulate of Italy in San Francisco, CA, USA, July 3, 2018
- 2019 Corresponding Member, Accademia Peloritana dei Pericolanti, University of Messina, Messina, Italy, January 21, 2019
- Organizing Chair, International Symposium "Frontiers in Biomedicine: Mass Spectrometry, Bioprinting, Biomaterials, and Bioreactors", Biotechnological Innovations and Updates in the frame of the Horizon 2020 - SCREENED EU Proposal 825745, University Campus UNIPR, March 12, 2019

International Invited Lectures

- 1989 *"Neuroendocrine regulation of tuberoinfundibular TRH"*.
Endocrine Rounds, Endocrinology Division, Tufts-New England Medical Center, Boston, USA, October 23, 1989

- 1990 *"The hypothalamo-pituitary neuroendocrine axis as integrator of body homeostasis"*. XVII Congress of the European Society for Artificial Organs, Bologna, Italy, September 19-22, 1990
- "Light microscopic and ultrastructural organization of the interleukin 1-beta neuronal system in the rat hypothalamic paraventricular nucleus"*. International Symposium on "Endocrinology Under 35", Siena, Italy, October 8-10, 1990
- 1991 *"Neuroendocrine control of hypothalamic TRH: a functional and morphological perspective"*. Endocrine Grand Rounds, Division of Endocrinology, Rhode Island Hospital, Brown University, Providence, RI, USA, November 6, 1991
- "Neuroendocrinology of the TRH tuberoinfundibular system"*. Physiology Seminars, Department of Physiology, West Virginia University, Morgantown, WV, USA, November 7, 1991
- 1994 *"Functional anatomy of the neuroendocrine regulation of hypophysiotrophic TRH"*. Departement de Médecine, Division d'Endocrinologie, Unitè de Recherche Thyroïdienne, Hopital Cantonal Universitaire, Geneva, Switzerland, Ottobre 14, 1994
- 1995 *"Neuroendocrine, paracrine and autocrine regulatory systems in the hypothalamo-pituitary-thyroid axis"*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, NEMCH-Tufts University, Boston, MA, USA, May 30, 1995
- 1996 *"Endocrine criteria for prediction of surgical outcome in Cushing's disease after transphenoidal adenomectomy"*. Endocrine Grand Round, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, NEMCH-Tufts University, Boston, MA, USA, June 4, 1996
- 1998 *"Functional morphology of the hypothalamic-pituitary VIP system: the role of thyroid hormone"*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA, July 2, 1998
- "Neuroendocrine regulation of thyrotropin-releasing hormone (TRH) in the tuberoinfundibular system: the integrative role of thyroid hormone"*. 26th Annual Congress of the Physiological Society of Southern Africa, Rustenburg, South Africa, September 20-23, 1998
- 1999 *"The neuroendocrine control of thyroid blood flow: an historical perspective"*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA, June 10, 1999

- 2000 *"Cell cycle kinetics in the anterior pituitary gland.* Endocrine Grand Rounds, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA, June 18, 2000
- 2001 *"Molecular bases for anterior pituitary cell growth".*Endocrine Grand Rounds,Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA, June 18,2001 .
- 2002 *"Role of tyrosine- kinase-dependent signalling pathways in the regulation of anterior pituitary cell growth".* Endocrine Grand Rounds, Division of Endocrinology, Diabetes, Metabolism and Molecular Medicine, Department of Medicine, New England Medical Center Hospitals-Tufts University, Boston, MA, USA, June 18, 2002.
- 2004 *"Role of echo-color-doppler in thyroid ultrasonography".* Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism Department of Medicine, Tufts Medical center -Tufts University, Boston, MA, USA, May 7, 2004.
- 2005 *"New diagnostic aspect in thyroidology: color doppler ultrasonography and 3D reconstruction".* Endocrine Grand Rounds, Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, Tufts Medical Center -Tufts University, Boston, MA, USA, May 2, 2005.
- "Goiters in San Vitale Mosaics".* International Symposium on The Thyroid Gland in history, art and medicine. A meeting in the San Vitale Mosaics. Department of Archaeology and San Vitale Church, Ravenna, Italy, October 21, 2005
- 2006 *"New morphofunctional techniques in thyroid ultrasonography: eco-power doppler, elastosongraphy and 3D reconstruction".* Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center-Tufts University, Boston, MA, USA, May 14, 2006.
- "Morphology and endocrinology at the intersection: the case of the Byzantine goiters".* Endocrine Grand Rounds, Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, Tufts Medical Center-Tufts University, Boston, MA, USA, May 2, 2006.
- "Lessons from the anatomy of the stromal scaffold in bioengineering of endocrine organs: the case of the bionic thyroid"*
Endocrine Grand Rounds, Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, Tufts Medical Center -Tufts University, Boston, MA, USA, September 26, 2006

- 2007 *“New biotechnological frontiers in endocrine organ engineering: the case of the bioartificial thyroid”*. Department of Medicine, Division of Endocrinology, Laboratory of Molecular Endocrinology, Universidad Federal de Sao Paulo, Escola Paulista de Medicina, San Paolo, Brasil, January 12, 2007
- “Migration dynamics in neural crest cells in the human embryo”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes, and Metabolism, Department of Medicine, Tufts Medical Center-Tufts University, Boston, MA, USA, September 20, 2007.
- 2008 *“Clinical anatomy of the human hypothalamus”*. SERC School in Neuroscience, Nagpur University Campus, Nagpur, India, January 31, 2008.
- “A new perspective in neuroendocrine integration: the Triune Information Network (TIN) concept”*. International Structural Neuroscience Conference on Peptides, First Meeting of the Indian Subcontinent Branch of the International Neuropeptide Society, Nagpur University, Nagpur, India, February 2, 2008.
- 2009 *“The principle of the organomorphic bioreactor in regenerative medicine of endocrine organs”*. First International Worksop of Computational Biomathematics at the University of Bologna and Third International Workshop of Morphofunctional Studies at the University of Parma, Academy of Sciences, Bologna, October 21, 2009
- 2010 *“The spectrum of autoimmune polyendocrine syndromes: an expanding galaxy”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center Tufts University, Boston, MA, USA, April 6, 2010
- “The anatomical museum as a research source in the field of biomedical robotics: the TENCHINI project at the University of Parma”* International Seminar on: Visiting and anatomical museum, curiosity or training? For a Network of Anatomical Museums, Palace of the University, Modena, Italy, December 17, 2010
- 2011 *“Bioartificial endocrine organs: a new frontier in regenerative medicine”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center Tufts University, Boston, MA, USA, February 8, 2011
- 2012 *“The bioartificial thyroid: an experimental perspective in bioengineering of endocrine glands”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center Tufts University, Boston, MA, USA, February 28, 2012
- 2013 *“3D scaffold organomorphism as a paradigm for endocrine and parenchymal organ reconstruction ex situ”*. Tissue Engineering Laboratory, University Hospital, Basel, Switzerland, May 29, 2013.

- “Bioartificial endocrine organs: a translational perspective in regenerative endocrinology”*. MiME International Conference, Faenza, Italy, October 13, 2013
- 2014 *“An historical overview of classical clinical syndromes by pituitary adenoma”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, February 3, 2014
- 2015 *“Minnie G. and the basophil adenoma of the pituitary”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, February 10, 2015
- 2016 *“The prolactinoma syndrome: an historical prespective”*. Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, February 9, 2016
- 2017 *“PseudoCushing and metabolic syndrome”*, Endocrine Grand Rounds, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, February 3, 2017
- 2018 *“Pheocromocytoma and paraganglioma: a journey in the history of science”*, Division of Endocrinology Seminar Series, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, February 27, 2018
- 2019 *“The medullary thyroid carcinoma: an anatomo-clinical challenge lasting a century”*, Division of Endocrinology Seminar Series, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, March 5, 2019
- “The masks of Lorenzo Tenchini at the University of Parma: their legacy to the modern concepts of facial transplantation, additive layer manufacturing, and facial recognition algorithms”*, 2nd International Congress on Wax Modelling, June 7-8, Padua, Italy, 2019
- 2021 *“Endocrine-metabolic disorders by viruses in history”*, ON-LINE Lecture, Division of Endocrinology Seminar Series, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, January 26, 2021
- “Endocrine-metabolic disorders by viruses in history”*, ON-LINE Lecture, Clinical Meetings of the Division of Endocrinology of Escola Paulista de Medicina, Sao Paulo, Brasil, September 16, 2021
- 2022 *“Innovations from the Horizon 2020 SCREEND Project: iron-doped hydroxyapatite nanoparticles ((Fe)HaNPs) for magnetic guidance of rat thyrocytes onto thyroid lobe-like 3D collagen scaffolds”*, Key Note Lecture, Bioceramics 32, Venice, Italy, September 23, 2022

2023 “Sick chaperones and Von Hippel - Lindau syndrome”, ON-LINE Lecture, Division of Endocrinology Seminar Series, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, March 14, 2023

2024 “Fugitive acromegaly: a historical, clinical, and translational perspective”, Division of Endocrinology Seminar Series, Department of Medicine, Tufts Medical Center, Tufts University, Boston, MA, USA, May 28, 2024

Committees:

1990-2000 Head Core Curriculum "Nervous and Neuroendocrine Systems", Ph.D. Program in "Human Morphological Sciences", University of Bologna School of Medicine, Bologna, Italy.

1997-2000 Scientific Secretary, Fellowship Program in Clinical Endocrinology, University of Bologna School of Medicine, Bologna, Italy

2001-2019 Member and Professor, Ph.D. Program in "Human and Molecular Morphological Sciences", then “Biomedical Sciences”, University of Bologna School of Medicine, Bologna, Italy

2001-2023 Member Committee for University Scientific Museums, University of Parma, Parma, Italy

2013 - 2019 Member and Professor, Ph.D. Program in "Molecular Medicine", University of Parma School of Medicine, Parma, Italy

2014-present Member, National Club of the Italian Society of Endocrinology (SIE) on “Endocrinology and Metabolism of Physical Exercise”, Italy

2016-present Member, National Club of the Italian Society of Endocrinology (SIE) on “Environmental Endocrinology”, Italy

2017 Coordinator, International Scientific Committee, International Exposition “The Fabric of the Bodies: from Anatomy to Robotics” Palace of the Governor, October 14 - December 17, 2017, Parma, Italy

2018 Member, National Committee on Ethno-Anthropology Standards and Rules, Italian Central Institute of Archiving and Records (ICCD), Italian Ministry of Cultural Goods and Art (MIBAC), Rome, Italy

2022 - 2023 Coordinator, UNIPR - DIMEC Committee for University Third Mission - Sections on Biotechnology / Pharmaceutical Companies and Museums, Parma, Italy

2023 - present Head, Technical - Scientific Committee, Center for Research & Development of Artificial Intelligence in Biomedicine and Odontostomatology (R&D A.I.B.O.), Medical Center Galliera, San Venzio, Galliera (BO), Italy

Society Membership:

Endocrine Society (USA)
The Pituitary Society (USA)
Italian Society of Endocrinology
Italian Society of Anatomy and Histology

Ad Hoc Reviewer

- International Research Journals Review Boards

1994-1997	Surgical and Radiological Anatomy
1996	Journal of Endocrinology
1998	European Journal of Endocrinology
2005	Journal of Endocrinological Investigation
2006	Obesity
2008	Clinical Anatomy
2009-2012	Open Anatomy Journal
2010	Endocrine
2011	International Journal of Immunopathology and Pharmacology, Xenotransplantation
2014 - 2017	Tissue Engineering
2016	Stem Cells
2017	Annals of Anatomy
2018	Brain Research
2020	Journal of Tissue Engineering and Regenerative Medicine
2022	International Journal of Molecular Sciences
2023	Yale Journal of Biology and Medicine, Military Medical Research
2024	BioFactors

- National and International Grant Review Boards

2002	MIUR COFIN, Italy
2010	MIUR - FIRB "Ricerca e Futuro" , Italy National Science Foundation (NSF), International Research Fellowships Awards, USA
2011	National Board for Research of Scotland, Scotland
2013	Wolkswagen Foundation, Germany
2014	Horizon 2020 Program, European Community Research Expert
2015-present	MIUR - REPRIZE, Italy

- International PhD Programs Review Boards

2018 - 2023	Board of Biological Sciences, National Institute of Science Education and Research, Bhubaneswar, Odisha, India
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Boards

- Editorial Boards

2002-2019	Acta BioMedica
2009-2012	Open Anatomy Journal
2011- present	L'Endocrinologo

- Forensic Medicine Boards

2002-2010	Court of Justice of Bologna, Forlì, Sassari, Italy
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Research Grants

- 1989-1996 Bilateral Research Projects, Italy-USA, Italian National Research Council (CNR), # 89-0426704, 90-01575CT04, 91-00335CT04 entitled "Neuroendocrine regulation of TRH in the hypothalamic paraventricular nucleus"; # 92-01105CT04, 93-00434CT04, 94-025200CT04 entitled: "Neuropeptide regulation of TRH gene expression"; 95-00883CT04, 96-00124CT04 entitled "Cellular biology of hypophysiotrophic TRH and VIP"
- 1991 Italian National Research Council (CNR), CNR # 91-02263CT11, entitled "Nuclear polyphosphoinositides and trophic effect of GH and IGF-1: development of analytical microtechnologies"
- 1991-1994 Italian Ministry of University (MURST), entitled "Cellular biology of TRH"
- 1992 National Hormone and Pituitary Program, National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK), USA, Award # 30299, entitled: "Neuroendocrine regulation of anterior pituitary cell growth"
- 1992-93 CNR # 92-03483CT11, 93-03603CT11 entitled "Nuclear polyphosphoinositides and trophic effect of TRH and proTRH on primary cultures of anterior pituitary: development of analytic microtechnologies"
- 1992-1996 CNR ACRO entitled "Interleukin 1 and interleukin-1 receptor antagonist as regulatory factors in tumoral growth of the nervous system (1992-1994); and "Mitogenic and antimitogenic neuropeptides as regulatory factors in tumoral growth of the nervous system" (1995-1996)
- 1994 CNR # 94-00809CT11 entitled "Nuclear polyphosphoinositides and trophic effect of TRH, proTRH, VIP, interleukin 1-beta on primary cultures of anterior pituitary: development of analytic microtechnologies"
- 1995 - 1997 MURST60%, entitled "Regulation of TRH biosynthesis"
- 1996 MURST40%, entitled "Ultrastructure and histophysiology of the lymphatic circulation"
- 1997-1999 MURST40%, entitled "Neuroendocrine control of preproTRH and preproVIP gene expression"
- 1998-1999 MURST COFIN98 entitled "Mechanism of action of thyroid hormone in the regulation of TRH and VIP gene expression"
- 1998-1999 Italian Ministry of Health, entitled "Role of lymphocyte-derived substance P, VIP and somatostatin in hyperalgesia of rheumatic polymyalgia"
- 2001 MURST Young Researchers, entitled: "Neuroendocrine regulation of TRH gene expression"
- 2001- 2003 MURST FIL 01-03, entitled: "Neuroendocrine regulation and trophic effects of thyrotropin-releasing hormone (TRH) in the hypothalamic-pituitary system"

- 2002-2004 FIRB02, # RBAU01CHZ4_001 entitled: " Regulation of thyrotropin-releasing hormone (TRH) biosynthesis in the tuberoinfundibular system of the fetal hypothalamus during development"
- 2004-2006 MURST PRIN04 entitled "Effects of treatment with polychlorinated biphenils on the neuroendocrine control of the thyroid axis in rats during fetal and postnatal development".
- 2006-2008 MURST FIL 06-08, entitled: "Neuroendocrine effects of pro-thyrotropin-releasing hormone (TRH) in the hypothalamic-pituitary axis: role of nonTRH peptides".
- 2010 MIUR FIL09, entitled" Neuroendocrine effects of pro-thyrotropin-releasing hormone (TRH) in the hypothalamic-pituitary axis: role of nonTRH peptides".
- 2010-2012 National Coordinator, MIUR PRIN08 # 2008ZCCJX4, entitled: "Ex situ regenerative biology of glandular / parenchymal organs: the model of the organomorphic scaffold".
- 2010-2013 FIRB MIUR # RBAP10MLK7, entitled:"Scaffolds for regeneration of skeletal tissues: preclinical evaluation of biocompatibility and efficiency"
- 2012-2014 ACPR12_00312, L. 6/2000, entitled" The informatic technologies and the new realities for knowledge, networking and valorization of the cultural scientific patrimony: the role of the National Network for University Museums"
- 2016-2017 PANN15T3_00816, L. 6/2000, entitled" The masks of Lorenzo Tenchini: reconstruction in 3D virtual immersive reality, first complete exposition after 130 years, and permanent multimedial access to a unique, anatomical and criminological collection of international value"
- 2019-2024 #825745 - SCREENED - H2020-SC1-BHC-2018-2020 Single-Stage-RTD entitled "A multistage model of thyroid gland function for screening endocrine-disrupting chemicals in a biologically sex-specific manner".
- 2023 - 2025 PRIN P20224TAETP entitled "I-TROPHYTS - IoT and humanoid RObotics for autonomic PHYsio-Therapeutic monitoring, coaching and supervising in smart Spaces: a feasibility study".
- PRIN-PNNR 2023 P2022H74YP entitled "SORTT - An IoT-Serviced and Ontology-based Remote human digital Twin for physioTherapy: a feasibility study".

Basic and Translational research activity (see bibliography).

A total of 373 scientific publications including:

- 204 original articles and book chapters on selected topics of neuroendocrinology, clinical endocrinology, history of endocrinology, regenerative medicine of endocrine organs;
 - 7 monographs on the clinical imaging anatomy of the human central nervous systems general human anatomy, and history of human anatomy;
 - 162 abstracts at international and national congresses.
- H index SCOPUS = 19, times cited = 1801

- Main topics:
- 1) functional morphology, physiology and pathophysiology of neuroendocrine and endocrine systems in Mammals and man;
 - 2) clinical and imaging anatomy of human endocrine glands and central nervous system;
 - 3) regenerative medicine and bioengineering of endocrine organs
 - 4) history of endocrinology

Teaching activity

Basic Science

- *University of Chieti School of Medicine, Chieti, Italy*
1984-1990 Course of Human Anatomy;
- *University of Bologna School of Medicine, Bologna, Italy*
1990-2000 Course of Human and Clinical Anatomy;
- 1990-2019 Course for the PhD program: "Human Morphological Sciences", Core Curriculum "Nervous and Neuroendocrine Systems";
- *University of Trieste School of Medicine, Trieste, Italy*
1995 - 1996 Monographic Course on "Functional Anatomy of the Endocrine Hypothalamus" (in collaboration with Ronald M. Lechan, Tufts University School of Medicine, Boston, USA);
- *University of Parma School of Medicine, Parma, Italy*
2000 - 2023 Course of Human Anatomy;
Elective on Theory of Experimental and Clinical Reasoning in Human Anatomy, Elective on Neurohypothalamic secretion;
- 2000 - 2006 Monographic Course on "Functional Anatomy of the Endocrine Hypothalamus" (in collaboration with Ronald M. Lechan, Tufts University School of Medicine, Boston, USA).
- *University of Parma Schools of Biotechnologies and Nutrition, Parma, Italy*
2013 - 2023 Course of Regenerative Medicine in Endocrinology
- 2020 - 2023 Course of Clinical Anthropometry in Nutritional Disorders

Clinical Science

- *Tufts University School of Medicine, Boston, MA, USA*
2004 - 2019 Course of Endocrine Pathophysiology and Clinic, Division of Endocrinology, Diabeters, and Metabolism, Tufts Medical Center - Boston, MA, USA

Clinical Subspecialties

- *Bologna University School of Medicine, Bologna, Italy*
1983-1987 Instructor, Course of Internal Medicine

- 1990-2000 Courses for Subspecialty Boards:
 - 1) Clinical Anatomy (Boards of Endocrinology and Gastroenterology)
 - 2) Neuroendocrinology, Immunoendocrinology, Chronoendocrinology, (Boards of Endocrinology and Nephrology)
 - 3) Neuroanatomy (Board of Neurology)

- 1996 - 1998 Executive Coordinator of the post-graduate advanced Course "Up-date in Clinical Endocrinology", Endocrinology Fellow Program, Department of Internal Medicine and Endocrinology, Bellaria Hospital, Bologna, Italy

- *Tufts University School of Medicine, Boston, MA, USA*
1996 - 2019 Professor Rounds and Clinical Case / Clinical Updates presentations to Endocrinology Fellows, Division of Endocrinology, Diabetes and Metabolism, Tufts Medical Center, Boston, USA

- *Parma University School of Medicine, Parma, Italy*
2000 - 2023 Courses for Subspecialty Boards:
 - 1) Human Anatomy (Boards of Gastroenterology, Infectious Diseases, Gynecology and Obstetrics, Dermatology, then only Plastic Surgery, and Ophthalmology)
 - 2) Endocrinology and Metabolism (Board of Endocrinology)

National Continuing Medical Education (CME) / Advanced Research and Clinical Courses and Symposia / Round Tables:

- 2003 *"Diagnosis and Follow-up in Endocrine and Metabolic Diseases: Role of Imaging Techniques"*, Foundation and Clinic "G.B. Morgagni", Catania, Italy, March 1, 2003

- "Communication and Elaboration of Information in the Central Nervous and Endocrine Systems"*, Department of Human Anatomy, Pharmacology and Forensic Medicine, University of Parma School of Medicine, Parma, Italy, October 7-8, 2003

- 2004 *"L'anatomie clinique: un nouvelle frontiere pour le diagnostic topographique"*. Journèe Italienne de la Sociètè Francaise de Chirurgie Endoscopique. Catania, Italy, November 11-12, 2004

- 2005-2009 *"Neural and neuroendocrine bases for athletic performance in shotokan karate"*, International Symposia on Traditional Karate, Budo and Martial Arts, Department of Human Anatomy, University of Milan, Milan, Italy

- 2009 *"The morphology of phenotypes in the anatomical tradition of the University of Parma: Lorenzo TENCHINI (1852-1906), Cesare Lombroso (1835-1909). Meetings of Functional Morphology, Parma University, Parma, Italy, March 25, 2009*
- 2010 *"Update on acromegaly". Endocrinology Fellow Program, Universities of Modena/ Reggio Emilia and Parma, Parma, Italy, May 3, 2010*
- "The Museum through web. An experiment of the Museum of Human Anatomy, Pharmacology, and Forensic Medicine", International Day on Museums - ICOM 2010, University of Parma, Parma, Italy, May 20, 2010*
- 2011 - 2013 *"Modulation of hormonal secretion by nutrients". AKESIOS National School of Nutrition, Parma, Italy*
- 2013 *"A multidisciplinary approach to the patient with pituitary adenoma: new diagnostic and therapeutic strategies", Maggiore Hospital, Parma, Italy, November 20, 2013.*
- "Informatic technologies, new knowledge realities, networking, and valorization of the scientific cultural patrimony: the role of the Museum network", International Day on Museums - ICOM 2013, University of Parma, Parma, Italy, May 17, 2013*
- 2016 *"Perspectives on immersive virtual reality, formal languages, and anthropomorphic robotics for valorization of anatomical collections", International Day on Museums - ICOM 2016, University of Parma, Parma, Italy, May 17, 2016*
- 2017 *"Is there an influence of environmental pollutants in the development of pituitary tumors? An experience on acromegaly". 1st Meeting of the Society of Endocrinology CLUB on Environmental Endocrinology, Presidency of the Italian Ministry Council, Rome, Italy, June 19, 2017*
- "Lorenzo Tenchini and his masks: an anatomical-clinical collection at the end of the 19th century between the Universities of Parma and Turin" Galleria Biffi Arte, Piacenza, Italy, May 26, 2017*
- 2018 *"Role of physical activity in the prevention and cure of endocrine and metabolic disorders", Medical Center Galliera, San Venanzio di Galliera (Bologna), Italy, April 13, 2018*
- "Prevention, cure, and development of outpatient diagnostic / therapeutic pathways of excellence for endocrine and metabolic disorders", Medical Center Galliera, San Venanzio di Galliera (Bologna), Italy, September, 28, 2018*
- "Parma-Biomed 2.0: digitalization of ancient medical texts of the BIOMED Library in Parma and Putti-IOR in Bologna", International Day on Museums - ICOM 2018, University of Parma, Parma, Italy, May 17, 2018*

- 2019 *“Digital BIOMED Hub”: a 3.0 biomedical and anthropological dataweb between Pianura Padana and Sardinia”, International Day on Museums - ICOM 2019, University of Parma, Parma, Italy, May 16, 2019*
- 2020 *“Historical aspects and clinical anthropometry of osteoporosis”
“Individual risk profile and antiresorptive and anabolic drugs: role of Guidelines”
“Primary prevention: vitamin D”
“The OSTEONET-CMG Unit: an example of integrated multispecialty outpatient management of the Fracture Unit type”*
National Continuing Medical Education (CME) Program *“Osteoporosis: novelties and perspectives”* Medical Center Galliera, San Venanzio di Galliera (Bologna), Italy, January 18, 2020
- “Integration of endocrinology competences: the pituitary unit network as an inclusive platform”, Round Table on the role of the Pituitary Unit in the Neuroscience Network of Emilia Romagna, ON-LINE event, Dicembre 19, 2020*
- 2022 *“Fugitive Acromegaly”, ON-LINE event - Video Interview, Digital Platform “Caledoscopio GH; ipofisi e dintorni”, September 12, 2022, available https://www.odmbologna.it/wp-content/uploads/2022/09/Programma_generale.pdf*
- “The Google Project for digitalization of the anatomical clinical collection Lorenzo Tenchini”, International Day on Museums - ICOM 2022, University of Parma, Parma, Italy, May 16, 2022*
- 2023 *“New perspectives 2023 - 2024 for usability and scientific research of BIOMED museum”, International Day on Museums - ICOM 2023, University of Parma, Parma, Italy, May 18, 2023*
- 2024 *“The masks of Lorenzo Tenchini at Parma University: a biomedical perspective of the relationship form-function in the context of the psychopathology at the end of the 19th century”. National Congress on “The face of crime: physiognomic and criminal anthropology at the end of 19th century”, University of Verona, Verona, Italy, May 2-3, 2024*

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5. P Vezzadini, P Tomassetti, **R Toni**, G Bonora, G Labò
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11. D Cheneval, M Mueller, **R Toni**, S Ruetz, E Carafoli
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13. P Vezzadini, **R Toni**
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14. **R Toni**, CA Boicelli, AM Baldassarri
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15. G Bonora, P Vezzadini, G Fradà, **R Toni**, G Bargallo Sangiorgi, G Labò
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16. **R Toni**, L Bolondi, S Mosca, L Favero, G Toni
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