

Curriculum Vitae



Family name / First name **Casarini Livio**

Born 1979
Phone office +39.059 396 2010 - 1705
e-mail livio.casarini@unimore.it
Web page <https://personale.unimore.it/rubrica/dettaglio/lcasarini>
Spoken languages Italian, English.

Current position **Associate Professor** of Technical Sciences in Laboratory Medicine, S.C. 06/N1; S.S.D. MEDS-26/A, at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).

Consultant at Merck Serono S.p.A., an affiliate of Merck KGaA, (Darmstadt, Germany).

Activity Research team leader of the research Group of translational endocrinology, pharmacogenetics and sex hormone physiology at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).

PhD **2009 - PhD in Evolutionary and Environmental Biology** (University of Modena and Reggio Emilia, Modena, Italy).

Degree **2004 - Degree in Biology** (University of Modena and Reggio Emilia, Modena, Italy). 1998/99.

Research area Basic and translational research in endocrine pathophysiology and human reproduction, G protein-coupled receptors, glycoprotein hormones and their receptors, gonadotropin pharmacogenetics, pituitary and hypothalamic hormones, single-nucleotide polymorphisms, cell biology, fertility, endocrine-metabolic evolution, thyroid pathophysiology.

Bibliometrics ORCID: 0000-0001-5571-392X
SCOPUS AUTHOR ID: 14420945100
Researcher ID: D-6181-2016
Google Scholar: <https://scholar.google.com/citations?user=tLJk2WAAAAAJ&hl>

Teaching courses academic year 2024/25 Teaching of Basic and Translational Endocrinology, Nutrition, Metabolism and Personalized Therapies at these University courses: Biosciences, Biotechnology and Laboratory Medicine Techniques.
Web link to teaching: <https://personale.unimore.it/rubrica/insegnamenti/lcasarini>

Career track

- > 2022 – Visiting fellow at the INRAe/CNRS Tours (France) supported 1 year by the “Pharmaceutical programme (ARD CVL) LE STUDIUM (Orleans, France). Scientific tutor Dr. Eric Reiter.
- > 2022 – Achievement of National Scientific Qualification (I fascia) in the scientific area 06/N1, Sciences of the health professions and applied medical technologies.
- > 2021 – Associate Professor of Technical Sciences in Laboratory Medicine, S.C. 06/N1; S.S.D. MED/46 – since 10/12/2021 – at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).
- > 2020 – Achievement of National Scientific Qualification (II fascia) in the scientific area 06/N1, Sciences of the health professions and applied medical technologies.
- > 2020 – Membership of the Council of International PhD School “Clinical and Experimental Medicine” (University of Modena and Reggio Emilia, Modena, Italy).
- > 2018 – Fixed term Assistant Professor (art. 24, comma 3 – lettera b), law 240/10 - S.C. 06/N1; S.S.D. MED/46 – since 10/12/2018, – position granted by MIUR in the context of the “Department of

Excellence” grant, at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).

- > 2017 – Fixed term Assistant Professor (art. 24, comma 3 – lettera a), law 240/10 - S.C. 06/N1; S.S.D. MED/46 – from 01/06/2017 to 09/12/2018, at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).
- > 2015 - 2016 – senior Post-Doc fellow. In vitro research project in the context of the reproductive endocrinology. Tutor professor Manuela Simoni.
- > 2009 - 2015 – junior Post-Doc fellow. In vitro research project in the context of the reproductive endocrinology. Tutor professor Manuela Simoni.
- > 2006 - 2009 – PhD student (granted by University of Modena and Reggio Emilia, Modena, Italy). Dept. Animal Biology. Title of the thesis: Role of algal marine toxins in the development of the anuran amphibian *Xenopus laevis*. Tutor: professor Enzo Ottaviani.
- > 2005 – junior Post-Degree fellow. Tutor professor Enzo Ottaviani.
- > 2004 – Degree in Physiopathological Biology (University of Modena and Reggio Emilia, Modena, Italy). Dept. Animal Biology. Title of the thesis: Role of the methylation in the gene expression of the moth *Mamestra brassicae*. Tutor: professor Mauro Mandrioli.
- > 1998 – Diploma of Technical Expert in Industrial Physics by Istituto Tecnico Industriale Statale F. Cori, Modena.

International and national collaborations with academic institutions

- > 2024 – to date - Production and characterization of anti-LHCGR nano-antibody fragments acting as a positive allosteric modulator, in collaboration with Dr. Eric Reiter, INRAe/CNRS, Nouzilly, France.
- > 2022 – to date – Characterization of pathogenic mechanisms related to Rhodopsin receptor, with the Dept. of Life Sciences of the University of Modena and Reggio Emilia (Modena, Italy – Proff. Valeria Marigo and Francesca Fanelli).
- > 2022 – to date – Characterization of GPCR-GPCR interaction in skin cancers and Epidermolysis bullosa, with the Dermatology Unit of the University of Modena and Reggio Emilia (Modena, Italy – Prof. Cristina Magnoni).
- > 2022 – to date - International research project on the G protein-coupled receptors in human reproduction and thyroid, with Institute of Reproductive and Developmental Biology (IRDB), Dept. Surgery and Cancer, Imperial College (Londra, UK – Prof. Aylin C. Hanyaloglu).
- > 2022 – to date – International research project on the mode of action of gonadotropin hormone-releasing hormone (GNRH) and kisspeptin receptors (KISS1R) genetic variants. Prof. Josanne Vassallo, Prof. Rosienne Farrugia, Dr. Clayton Axiak (University of Malta).
- > 2021 – to date – International research project “Non-hormonal contraception by nanobody-mediated modulation of ovarian GPCRs” Bill & Melinda Gates Foundation “Grand Challenge Grants, section: non-hormonal contraceptives” with INRAE (Nouzilly, France - Prof. Eric Reiter); In-Cell-Art INSERM, Nantes, France - Prof. Bruno Pitard); MAbSilico (Tours, France - Dr. Anne Poupon).
- > 2021 – to date – International research project “Genetic variation in genes related to folliculogenesis and steroidogenesis in women of Caucasian and Asian origin”, with Dexeus Salud Hospital (Barcelona, Spain - Prof. Dr. Nikolaos P. Polyzos).
- > 2021-to date – National research project “Characterization of LH- and hCG-induced steroidogenesis”, with Università Alma Mater Bologna (Bologna, Italy - Prof. Uberto Pagotto).
- > 2021-2024 – Characterization of endocrine disruptor impact in gonadal physiology, with Department of Anatomy, Histology, Forensic Medicine and Orthopedic, Section of Histology, La Sapienza University (Rome, Italy – Prof. Elena Vicini).
- > 2019-2022 – National research project PRIN 2017 entitled “Multilevel machine learning of toxicogenomic, molecular, endocrine, genotoxic and transgenerational effects of air pollution on reproduction”.
- > 2015-2018 – National research project PRIN 2015 entitled “On the pleiotropic role of type 5 phosphodiesterase” (020145_16_PPD_PRIN2015SIMONI).
- > 2018-to date – Project of BRET/FRET biosensor development to study the action of phosphodiesterase enzymes and anti-cancer molecules against the melanome. Dept. Life sciences, University of Modena and Reggio Emilia (Modena, Italy, Dr Giulia Di Rocco, Dr Silvia Franchini).
- > 2017-to date – International research project on the interaction between estrogen and pituitary glycoprotein hormone receptors, with Institute of Reproductive and Developmental Biology (IRDB), Dept. Surgery and Cancer, Imperial College (Londra, UK – Prof. Aylin C. Hanyaloglu; Prof. Stephen Franks); Dept. Histology, University Tor Vergata (Rome, Italy - Dr. Francesca G. Klinger); Dept. Life Sciences, University of Modena and Reggio Emilia (Modena, Italy, Prof. Francesca Fanelli), Dept. Obstetrics and Gynecology, University of Modena and Reggio Emilia (Modena, Italy, Prof. Antonio La Marca); Medical University Lublin (Lublin, Poland – Prof. Adolfo Rivero-Muller); University of Milan (Milan, Italy – Prof. Luca Persani).
- > 2017-2022 – International research project on the genetics of thyroid tumors, with Division of Molecular Genetic Epidemiology, German Cancer Research Center (DKFZ) (Heidelberg, Germany - Prof. Kari Hemminki); Institute of Human Genetic (Münster, Germany - Prof. Frank Tüttelmann), Dept.

Biology, University of Pisa (Pisa, Italy, Prof. Stefano Landi), Dept. Clinical and Experimental Medicine, University of Pisa (Pisa, Italy - Prof. Rossella Elisei).

- > 2017-2020 – International research project on LHCGR key residues fundamental for LH and hCG recognition. Leibniz-Forschungsinstitut für Molekulare Pharmakologie (Berlin, Germany - Prof. Gerd Krause).
- > 2017-2019 - International research project on GnRH inhibitors with Centre for Neuroendocrinology, University of Pretoria (Pretoria, South Africa – Proff. Claire Newton and Robert P. Millar).
- > 2016-2019 – National research project on effects of antiretroviral drugs on the GH secretion, with Dept. Biomedical Sciences, Humanitas University and Humanitas Hospital (Rozzano, Italy - Dr. Andrea G. Lania).
- > 2016-2019 – International research project on inactivating FSHR mutations, with Dept. Surgical Sciences, S. Anna Hospital, University of Turin (Turin, Italy - Prof. Alberto Revelli).
- > 2016-2021 - International research project on β -arrestin 1 and 2 as a prognostic factor for ovarian tumors, with Dept. for Obstetrics & Gynecology, University Hospital of Munich, Ludwig-Maximilians-University, (Munich, Germany - prof. Udo Jeschke).
- > 2016-2020 - International research project on comparison *in vitro* between FSH biosimilar drugs, with PRC, INRA, CNRS, IFCE, Université de Tours (Nouzilly, Francia - prof. Eric Reiter) and Dept. Biology, College of Science, United Arab Emirates University, Al Ain, United Arab Emirates (Dott. Mohammed A. Ayoub).
- > 2016-2021 – International research project on sphingosine-1-phosphate in the ovarian follicle, with Dept. Neurosciences, University of Parma (Parma, Italy - Dr. Francesco Poti).
- > 2014-to date – Collaboration on studies using human primary granulosa cells, with Unit of Obstetrics and Gynecology, IRCCS-Arcispedale Santa Maria Nuova (Reggio Emilia, Italy - Dr. Lorenzo Aguzzoli and Maria Teresa Villani).
- > 2014-to date – Collaboration on studies applying immunometric hormone assays, with CORELAB Unit, Sant'Agostino-Estense ospital (Modena, Italy – Dr. Tommaso Trenti).
- > 2015-2016 - International research project on the role of β -arrestins 1 and 2 in gonadotropin-mediated cell viability, with PRC, INRA, CNRS, IFCE, Université de Tours (Nouzilly, France - prof. Eric Reiter).
- > 2015-2016 - Collaborator involved in the national PRIN project on PDE5-inhibitors (P.I. prof. Emmanuele A.F. Jannini, University Roma Tor Vergata). Granted by MIUR.
- > 2015 – International project “*Circadian clock and fertility*”, with Unit of Biochemistry, Dept. of Biology, University of Fribourg (Fribourg, Switzerland - prof. Urs Albrecht) in the context of the “GnRH Network” of the European Cooperation in Science and Technology (COST; number BM1105-24108).
- > 2013-2015 – Collaborator involved in the national PRIN project “A.M.L.E.T. *Androgens, metabolism, lifestyle and environment: testicular functioning for health*” (P.I. prof. Manuela Simoni). Granted by MIUR.
- > 2009-2011 - Collaborator in the intenational project “Pharmacogenetics of the molecular response to follicle-stimulating hormone (FSH): the role of genetic variants of the FSH receptor”, with Universitätsklinikum Münster (Münster, Germany – prof. Joerg Gromoll).

Tutoring Senior Researchers

- > 2024 – Dr. Sabrina Zazoun (University of Jijel, Algeria). Short-term research internship (from 25th October 2024 to 23th November 2024).
- > 2024 – Prof. Murat Calapkulu (İğdir Dr. Nevruz Erez State Hospital, Igdir, Turkey). Short-term research internship (from 15th October 2024 to 10th November 2024) granted by EYES Research Observership Programme of the European Society of Endocrinology.
- > 2024 – Dr. Aysa Hacıoglu (Ercyies university School of Medicine, Turkey). Short-term research internship (from 20th May 2024 to 15th June 2024) granted by EYES Research Observership Programme of the European Society of Endocrinology.
- > 2023 – Dr. Sara T. Maki (United Arab Emirates University, UAE). Short-term research internship (20 June 2023 al 25 July 2023) granted by Trialect Corporation.
- > 2023 – Dr. Kone Fatoumata, Département Biochimie-Bio Mol-Reproduction à UFR Pharmacie/ UFHB (Abidjan, Ivory Coast). Short-term research internship (from 13th February 2023 to 25th March 2023) granted by Trialect Corporation.
- > 2022 - Dr. Clayton Axiak (University of Malta). Short-term research internship (15 October 2022 – 22 December 2022). Project: “mode of action of gonadotropin hormone-releasing hormone and kisspeptin receptors (GNRHR and KISS1R) genetic variants” granted by Trialect Corporation.
- > 2021 – Dr. Alejandra García-Gasca (Research Center for Food and Development A.C., Hermosillo, Mexico). Short-term research internship (07 June 2021 - 18 July 2021) granted by Trialect Corporation.
- > 2021 – Dr. Kornelia Zaręba (Medical Centre for Postgraduate Education, Warsaw, Poland). Short-term research internship (07 June 2021 - 18 July 2021) granted by Trialect Corporation.
- > 2020 – Prof. Ester Beltrán-Frutos (Universidad de Murcia, Murcia, Spain). Short-term research internship (20 January 2020 - 08 March 2020) granted by Fundacion Seneca.

Post-Doc and Junior Fellows

- > Dr. Claudia Fusco. Project: Non-hormonal (NH) contraception by nanobody mediated modulation of ovarian GPCRs - S.S.D. MEDs-26/a (University of Modena and Reggio Emilia). From 01/12/2023 to 31/01/2025. Tutor: Livio Casarini.
- > Dr. Carmela Perri. Project: "Interaction between G protein-coupled receptors in thyroid cells and hormonal regulation of cell growth" - S.S.D. MED/46 (University of Modena and Reggio Emilia). From 16/12/2021 to 15/12/2023. Tutor: Livio Casarini.
- > Dr. Elia Paradiso. Project: "Non-hormonal contraception via modulation of ovarian GPCRs by nano-antibodies" - S.S.D. MED/46 (University of Modena and Reggio Emilia). From 16/12/2021 to date. Tutor: Livio Casarini.
- > Dr. Elisa Mascolo Project: "Non-hormonal contraception via modulation of ovarian GPCRs by nano-antibodies" and "In vitro research and development of new tools to improve reproduction" (in collaboration with Merck KGaA, Darmstadt, Germany) - S.S.D. MED/46 (University of Modena and Reggio Emilia). From 16/06/2021 to date. Tutor: Livio Casarini.
- > Dr. Neena Roy. Project: Multilevel machine learning of toxicogenomic, molecular, endocrine, genotoxic and transgenerational effects of air pollution on reproduction" - S.S.D. MED/46. (University of Modena and Reggio Emilia). From 6/12/2020 to 15/12/2022. Tutor: Livio Casarini.
- > Beatrice Melli. Project: "Evaluation of intracellular events mediated by heteromers of sex hormone receptors" - S.S.D. MED/46 (University of Modena and Reggio Emilia). From 16/05/2020 to 01/11/2020. Tutor: Livio Casarini.

PhD students

- > Carmela Perri. Ph.D. International School in Clinical and Experimental Medicine (University of Modena and Reggio Emilia). Title: Impact of MC1R-GPER heteromers in the melanoma pathogenesis. Year 2023, XXXIX cycle. Position funded by a 3-year Research Assign. Tutor: Livio Casarini, co-tutored by Prof. Cristina Magnoni (Dermatology Unit, University of Modena and Reggio Emilia).
- > Lara Baschieri. Ph.D. International School in Clinical and Experimental Medicine (University of Modena and Reggio Emilia). Title: Non-hormonal (NH) contraception by nanobody-mediated modulation of ovarian GPCRs. Year 2021, XXXVII cycle. Position funded by a 3-year Research Assign. Tutor: Livio Casarini.
- > Sara D'Alessandro. Ph.D. International School in Clinical and Experimental Medicine (University of Modena and Reggio Emilia). Title: Cross-interaction between pituitary glycoprotein hormones and their receptors in thyroid and ovarian cells. Year 2020, XXXVI cycle. Tutor: Livio Casarini.
- > Clara Lazzaretti. Ph.D. International School in Clinical and Experimental Medicine (University of Modena and Reggio Emilia). Title: Molecular and cellular action of reproductive hormones. Year 2018, XXXIV cycle. Tutor: Livio Casarini.

Master Degree students at University of Modena and Reggio Emilia

More than 30, available at the web link: <https://morethesis.unimore.it>

Other national and international degree students:

- > Eric Adriano Zizzi. Polytechnic of Turin. Title: *Internship in a biomedical laboratory*. Year 2017 (20/02-01/03). Relator: Prof. Manuela Simoni. Coordinators: Livio Casarini, Laura Riccetti.
- > Jill Gromoll. Universitätsklinikum Münster (Germany). Title: *Internship in a biomedical laboratory*. Year 2015 (10-30/09). Relator: Manuela Simoni. Coordinator: Livio Casarini.
- > Kristin Gehling. University of Cologne (Germany). Title: *Internship in a biomedical laboratory*. Year 2015 (10-30/09). Relator: Manuela Simoni. Coordinator: Livio Casarini.

High school students:

- > Ebenezer Anokye Manu. I.T.I.S. Fermo Corni (Modena). Title: *Genetic manipulations aimed at the transformation of eukaryotic cells*. Year 2010. Relator: Prof.ssa Manuela Simoni. Coordinator: Livio Casarini.

Competitive grants

- > 2024 - "Fondo di Ateneo per la Ricerca (FAR) Attrezzature Dipartimentale 2024" of the University of Modena and Reggio Emilia. Role: PI; grant: 14000,00 €.
- > 2022 – Research fellowship "LE STUDIUM ARD CVL Pharmaceutical Programme", project name: Antibody fragments targeting ovarian GPCRs to control reproduction. 1-year Internship at the INAe/CNRS Tours, France, from 30 November 2022 to 29 November 2023.
- > 2022 - Mobility Grant "bando per il finanziamento di azioni di mobilità per giovani ricercatori dell'Università di Modena e Reggio Emilia" with the project "Non-hormonal (NH) contraception by nanobody-mediated modulation of ovarian GPCRs" to support the internship of the PhD student Lara Baschieri at the INRAe/CNRS (Tours, France), from 30 November 2022 to 29 June 2023 – role: PI, total grant: 6000 €.

- > 2021 - Bill & Melinda Gates Foundation “Grand Challenge Grants, section: non-hormonal contraceptives”. Title of the project: *Non-Hormonal Contraception by Nanobody Produced from Within the Body*. Role: P.I. of the Unit “University of Modena and Reggio Emilia” (398400 \$). P.I. of the project: Dr. Eric Reiter (INRAe/CNRS, University of Tours, France) – total grant: 1800000 \$.
- > 2021 - “Fondo di Ateneo per la Ricerca (FAR) Attrezzature Dipartimentale 2020” of the University of Modena and Reggio Emilia. Role: Proposer; grant: 7881,20 €.
- > 2020 - HHV-6 Foundation, Dharam Ablashi Research Fund – “Pilot Grant Program”. Titolo del progetto: *Assessment of the effects of HHV-6A infection on the thyroid follicular epithelial cells autophagy and prosurvival signaling*. Ruolo: P.I. di Unità “University of Modena and Reggio Emilia” (8000 €). P.I. progetto: Prof.ssa Roberta Rizzo (University of Ferrara, Italy) – grant totale: 15000 €.
- > 2018 - “Fondo di Ateneo per la Ricerca (FAR) Attrezzature 2018” of the University of Modena and Reggio Emilia. Role: Co-proposer; grant: 18000 €.
- > 2017 - “Fondo di Finanziamento per le Attività Base di Ricerca (FFABR)” – Agenzia Nazionale per la Valutazione dell’Università e della Ricerca (ANVUR). Role: Proposer; grant: 3000 €.
- > 2014 - Grant UE COST action, in the context of the European Cooperation in Science and Technology programme (COST; number BM1105-24108; GnRH Network). Short-term scientific mission at University of Fribourg, Fribourg, Switzerland. Role: proposer. Grant: 2500 €.

PI of scientific studies and research entrusted by qualified public or private institutions

- > 2024 – 2-y research agreement with Merck KGaA (Darmstadt, Germany) for the in vitro project “*Production and characterization of anti-LHCGR nano-antibody fragments acting as a positive allosteric modulator*” (150000 €).
- > 2022 – 3-y research agreement with Ferring Pharmaceuticals SA (Switzerland) for the in vitro project “*In vitro study aiming to differentiate the action of differently glycosylated gonadotropins by evaluation of the classical and long-term, endosomal signaling activation*” (127600 €).
- > 2021 – 3-y research agreement with INRAe/CNRS Nouzilly (Nouzilly, France), in the context of a Bill & Melinda Gates Foundation “Grand Challenge Grants, section: non-hormonal contraceptives”, for the project “*Non-Hormonal Contraception by Nanobody Produced from Within the Body*” (398400 \$).
- > 2021 – 2-y research contract with Merck KGaA (Darmstadt, Germany) and Dexeus Salud Hospital (Barcelona, Spain) for the in vitro project “*Genetic variation in genes related to folliculogenesis and steroidogenesis in women of Caucasian and Asian origin*” (25000 €).
- > 2021 – 3-y research contract with Merck KGaA, for the in vitro project “*Characterization of LH- and hCG-induced steroidogenesis*” (60000 €).
- > 2019 – 3-y research contract with Merck KGaA, for the in vitro project “*Crosstalk between FSH and estrogen receptors in ovarian follicle dominance or death*” (150000 €).

Awards

- > 2014-2019 - “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution to the basic science at the European Congress of Endocrinology (ECE), in the years: 2014, 2015, 2016, 2017, 2018 e 2019 (450 € each).
- > 2017 - “*Top cited article*” award from the European Journal of Endocrinology, for the publication “Simoni M and Casarini L. Eur J Endocrinol. 2014 170(3):R91-R107.
- > 2014-2016 – Awarded by the Magnificent Rector of the University of Modena and Reggio Emilia, Prof. Angelo Oreste Andrisano, for the contribution to Academic research, years: 2014, 2015, 2016 and 2017.
- > 2016 - “Top 10% Reviewer” award from the international scientific journal Human Reproduction, for the quality of revisions over the 2015 (assigned on 01 March 2016).
- > 2012 – Recommendation of relevance from the Faculty of 1000 Prime to the scientific article “Casarini L. et al. PLoS One. 2012 7(10):e46682”.

Abroad internships

- > 2022 – 1-year internship at INRAe/CNRS Tours, France (scientific tutor Dr. Eric Reiter), from 30 November 2022 to 29 November 2023. Position funded by the research fellowship “LE STUDIUM ARD CVL Pharmaceutical Programme”, project name: Antibody fragments targeting ovarian GPCRs to control reproduction.
- > 2015 - “*Short-Term Scientific Mission*” (02-27 March) at the Department of Biology, Unit of Biochemistry, University of Fribourg (Fribourg, Switzerland, Prof. Urs Albrecht). Project title: *Circadian rhythm and fertility*.
- > 2010 - Short-term scientific mission (22-27 March) at the Universitätsklinikum Münster (Münster, Germany, Prof. Jörg Gromoll). Project title: “Molecular pharmacogenetics of the response to the follicle-stimulating hormone (FSH): role of FSH receptor genetic variants”.

Academic activities

- > Member of the Council of International PhD School “Clinical and Experimental Medicine” (University of Modena and Reggio Emilia, Modena, Italy).
- > Member of the Degree Commission of the Courses of Studies in Medical and Pharmaceutical Biotechnology, Biology, Experimental and Applied Biology (D.M. 270/04 -

https://morethesis.unimore.it/ETD-db/ETD-search/search_by_advisor?advisor_name=CASARINI+LIVIO).

> 2011-2020 – Member of the Center for Genomic Research, ENDOLAB *unit* (University of Modena and Reggio Emilia), for which he has played and plays a fundamental role in the recognition of Accreditation Tecnologico from Regione Emilia Romagna (Italy).

> “Cultore della Materia” in Endocrinology (MED/13), Degree Course in Tecniche di Laboratorio Biomedico, a.y. 2017/18 – Link: <http://www.medicina.unimore.it/site/home/didattica/cultori-della-materia/cultori-della-materia-201718.html>

> 2012/2013 – Elected member of the Council of Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia), and member by right of the same Council since 1 June 2017.

Membership and roles in Scientific Societies

> Founder Member of the society Società Italiana per la Ricerca Traslazionale e le Professioni

Sanitarie per la Medicina Traslazionale (SIRTEPS) – Web site: <https://www.sirteps.it>

> Member of the Scientific Committee of the society Società Italiana di Embriologia Riproduzione e Ricerca (SIERR) – Web Site: www.sierr.it

> Member of the European Society of Endocrinology (ESE) - Web site: www.eese-hormones.org

> Società Italiana di Endocrinologia (SIE) - Web site: www.societaitalianadiendocrinologia.it

> Since 2019 - Secretary of the Associazione Scientifica di Endocrinologia, Andrologia e Metabolismo (A.S.E.A.M.)

Organization of Scientific Events

> 2024 - Member of the Programme Organizing Committee and Chair of the International Workshop “How to master gonadotrophins in folliculogenesis: LH - FSH adjustment to optimize ovarian response”, 27 September 2024, Maranello, Modena, Italy (<https://medeaacademy.com/event/workshoprm2024/>).

> 2024 – Member of the Programme Organizing Committee and Chair of the international congress “ICGR-V”, 12-15 March 2024, Tours, France (<https://www.lestudium-ias.com/events/icgr-v-5th-international-conference-gonadotropins-and-receptors>).

> 2017 – Member of the Local Organizing Committee of the international congress “ICGR-IV – 12th GnHR Congress”, 20-23 September 2017, Modena, Italy.

> 2011 – Member of the Local Organizing Committee of the national congress “1st Scientific Meeting EnGiol”, 11-12 November 2011, Modena, Italy.

Reviewer for Research Institutions

> 2022-to date. Reviewer for the Belgian “The Research Foundation – Flanders” (FWO).

> 2019-2022. Reviewer for the Biotechnology and Biological Sciences Research Council (BBSRC), UK.

> 2018-to date. Reviewer for the Slovenian Research Agency (ARRS), Slovenia.

> 2021-to date. Reviewer for the National Science Center, Poland.

Editorial activities

Editorial Board membership:

> 2024 – to date - Human Reproduction Update

(https://academic.oup.com/humupd/pages/Editorial_Board).

> 2020 – to date - Andrology

(<https://onlinelibrary.wiley.com/page/journal/20472927/homepage/editorialboard.html>).

> 2019-2023 Molecular Human Reproduction

Guest Editor:

> 2024 – Andrology: “Gonadotropins and their receptors: State-of-the-art 2025”.

> 2019 - Frontiers: “Follicle-Stimulating Hormone: Beyond Fertility”

(<https://www.frontiersin.org/research-topics/7798/follicle-stimulating-hormone-beyond-fertility>).

> 2018 - Minerva Ginecologica: “New insights in molecular human reproduction”.

Review Editor:

> 2017-2021 - Frontiers in in Cell and Developmental Biology; Frontiers in Cellular Endocrinology;

Frontiers in Physiology (<https://loop.frontiersin.org/people/258538/overview>).

Reviewer per riviste scientifiche internazionali: www.publons.com

Publications

Peer-reviewed articles (in bold when first, last, corresponding author):

- **Casarini L**, Rahman N, Reiter E, Crépieux P, Rivero-Müller A, Jonas KC, Kumar TR, Ulloa-Aguirre A, Franks S, Bernard DJ, Kristensen SG, Davis JS, Bousfield GR, Dias JA, Andersen CY, Handelsman DJ, Huhtaniemi IT, Simoni M. Comment on "Atlas of Fshr Expression From Novel Reporter Mice". *Endocrinology*. 2025;166(5):bqaf066.

- Conforti A, Di Girolamo R, Guida M, Alviggi C, **Casarini L**. Pharmacogenomic of LH and its receptor: are we ready for clinical practice? *Reprod Biol Endocrinol*. 2025;23(Suppl 1):29.
- Lazzaretti C, Ayoub MA, **Casarini L**. G protein-coupled receptor-receptor interactions in gonadal physiology. *Andrology*. 2024 Dec 9. doi: 10.1111/andr.13821.
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Book Chapters:

- Casarini L, Santi D, Marshall RG, Simoni M. Luteinizing hormone (LH). *Encyclopedia of Endocrine Diseases*, 3rd Edition – in press
- Santi D, Casarini L, Marshall RG, Simoni M. Follicle-stimulating hormone (FSH). *Encyclopedia of Endocrine Diseases*, 3rd Edition – in press
- Lazzaretti C, Furini C, Santi D, Simoni M, Casarini L. Mutations Affecting Leydig Cell Function. *Leydig Cells – Formation, Regulation and Function in Health and Disease*, ed. Prof. Ilpo T. Huhtaniemi – in press
- Casarini L, Simoni M. Membrane estrogen receptor and follicle-stimulating hormone receptor. *Vitam Horm*. 2023;123:555-585.
- Casarini L, Santi D, Brigante G, Simoni M. LH/hCG and the Receptor: A Single Receptor for Two Ligands. *Cellular Endocrinology in Health and Disease*, 2nd edition (Academic Press), 2021. pp 413-420. Paperback ISBN: 9780128198018; eBook ISBN: 9780128198025.
- Casarini L, Lazzaretti C, Paradiso E, Santi D, Brigante G, Simoni M. Evolutionary, structural, and physiological differences between hCG and LH. In: *100 Years of Human Chorionic Gonadotropin - Reviews and New Perspectives* (Elsevier), 2020 – pp 5-17 ISBN: 978-0-12-820050-6.
- Casarini L, Santi D, Marshall G, Simoni M. LH (Luteinizing Hormone) (2018 - Reference Module in Biomedical Sciences. *Encyclopedia of Endocrine Diseases*, 2nd Edition) (Elsevier) - pp. 171-177 ISBN: 9780128121993.
- Santi D, Casarini L, Marshall G, Simoni M. Santi, Daniele; Casarini, Livio; R Marshall, Gary; Simoni, Manuela (2018) - FSH (Follicle-Stimulating Hormone) (2018 - Reference Module in Biomedical Sciences. *Encyclopedia of Endocrine Diseases*, 2nd Edition) (Elsevier) - pp. 75-80, ISBN: 9780128121993.
- Casarini L, Huhtaniemi I, Simoni M, Rivero-Müller A. Gonadotrophin receptors. In: *Endocrinology: Endocrinology of the Testis and Male Reproduction*. Springer. 2017.
- Casarini L, Brigante G, Simoni M, Santi D. Clinical Applications of Gonadotropins in the Female: Assisted Reproduction and Beyond. In: *Gonadotropins: from bench side to bedside*. *Prog Mol Biol Transl Sci*. 2016. 143:85-119.
- Casarini L, Simoni M. Gene polymorphisms in female reproduction. *Methods Mol Biol*. 2014 1154:75-90.
- Casarini L, Simoni M. FSH: caratterizzazione del complesso ormone-recettore. In: *La Medicina della Riproduzione – dalla sperimentazione alla clinica*. [Article in italian]. Febbraio 2011 CLEUP SC, pp. 33-37.
- Casarini L, Simoni M. Receptores ováricos de FSH y LH. In: *Utilidad de la acción LH/hCG en reproducción asistida*. [Article in spanish]. *Cuadernos de Medicina Reproductiva*. 2010 Vol.16, n.2, Chapter 1.2

Invited speaker:

- Casarini L. LH or hCG? Molecular context of clinical outcomes. Merck Symposium. 41st European Society of Human Reproduction and Embryology (ESHRE) meeting. June 29 – July 02, 2025. Paris, France.
- Casarini L. Tiroide. Omiche e medicina di precisione: un passo verso la personalizzazione. 3° congresso nazionale della Società Italiana di Endocrinologia (SIE). 11-14 Giugno 2025. Turin, Italy.
- Casarini L. LH and hCG: Two hormones for one receptor. Merck internal workshop. June 13, 2025. Trieste, Italy.
- Casarini L. FSH and LH in ovarian stimulation: the secret for a perfect duo. 4th World Conference on Luteinizing Hormone in ART: The symphony of a New Life. MedEA, Medical Education Academy. May 16-17, 2025. Sorrento, Italy.
- Casarini L. Navigating Glycosylation Profiles to Optimize Ovarian Stimulation. ELECT webinars. Merck KGaA. Aprile 08, 2025. Online webinar.
- Casarini L. Luteinizing hormone/human chorionic gonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers reprogram reproductive signals in vitro. First Meeting of the Italian GPCR Network. February 14, 2025. Bari, Italy.
- Casarini L. LH and hCG: Two hormones for one receptor. Merck internal workshop. January 15, 2025. Naples, Italy.
- Casarini L. Receptor-receptor interactions in gonadal physiology. University of Pretoria. Pretoria, South Africa. October 28, 2024. Online seminar.

- Casarini L. La fisiologia delle gonadotropine nel reclutamento follicolare. 12° Meet Female Fertility. October 25-26, 2024. Camogli, Genoa, Italy.
- Casarini L. Controllo molecolare della dominanza follicolare. Master di II livello in Biologia e Biotecnologie delle Riproduzione: Dalla Ricerca alla Clinica. Università di Pavia e Generalife. June 7, 2024. Pavia, Italy.
- Casarini L. Pharmacogenomics and female infertility. Session 1 – Genes Matter! 46th International Dexeus conference “ART towards the future”. April 25-27, 2024. Barcelona, Spain.
- Casarini L. Receptor-receptor interactions in gonadal physiology. ICGR-V – 5th International Conference on Gonadotropins and Receptors – Le Studium Conferences. March 12-15, 2024. Tours, France.
- Casarini L. Project presentation in the Life & Health Sciences Biopharmaceuticals (ARD CVL) Programme. Le Studium Scientific Council. June 9, 2023. Orleans, France.
- Casarini L. Nanoantibodies for non-hormonal human contraception. Seminars in Life Sciences, University of Modena and Reggio Emilia. May 19, 2023. Online seminar.
- Casarini L. Interfollicular crosstalk: a balance between dominance and atresia. Master School in “Biology and Biotechnology of reproduction: from research to clinic”. University of Pavia and Generalife, Italy. February 23, 2023. Online seminar.
- Casarini L. Non-hormonal contraception by nanobody-mediated modulation of ovarian GPCRs. Le Studium Thursday Interdisciplinary Monthly Meeting. February 2, 2023.
- Casarini L. Il ruolo dell'ormone anti-Mülleriano (AMH) nella fisiopatologia ovarica. e-Micro Learning. PKG srl. November 10, 2022. Online seminar.
- Casarini L. The unstable balance between follicular dominance and atresia. XVII Annual Meeting of the Mediterranean Society for Reproductive Medicine (MSRM) and VIII Edition of the Pelvis as a Mother. September 18-20, 2022. Bari, Italy.
- Casarini L. New molecular insights of gonadotropins' action. Summer school of reproductologist - Advanced reproductive age and female fertility. September 16-17, 2022. Belek, Turkey.
- Casarini L. Crosstalk between G protein-coupled estrogen and gonadotropin receptors. LE STUDIUM conference ‘Gonadotropins in Physiopathology: Current advances in the Mechanisms of Action’. September 14-15, 2022. Virtual meeting.
- Casarini L. Basic research: LH increases the response to FSH in an in vitro model. Merck Symposium. 38th European Society of Human Reproduction and Embryology (ESHRE) meeting. July 6-8, 2022. Milan, Italy.
- Casarini L. Membrane Estrogen Receptor (GPER) and Follicle-Stimulating Hormone Receptor (FSHR) Heteromeric Complexes Promote Human Ovarian Follicle Survival. Endocrine Society's annual meeting ENDO 2022. June 11-14, 2022. Atlanta, USA.
- Casarini L. New insights into the anti-apoptotic activity of LH. Third World Conference on Luteinizing Hormone in ART. Medical Education Academy (Med.E.A.) May 27-28, Naples, Italy.
- Casarini L. Seminar: Cross-talk inter-follicolare: in equilibrio tra dominanza e atresia. IX Congresso Nazionale. Società Italiana di Embriologia, Riproduzione e Ricerca (SIERR). March 17-19, 2022, Rome, Italy.
- Casarini L. Seminar: New insights into gonadotrophins physiology and pathophysiology. Association of Reproductive and Clinical Scientists (ARCS) 365. Merck KgaA sponsored symposium. December, 14, 2021. Online congress.
- Casarini L. FSH for the Treatment of Male Infertility. Development of Scientific Cooperation in Reproductive Medicine Research. October, 15-16, 2021, Wroclaw, Poland.
- Casarini L. Seminar: Risposta recettoriale a hCG e LH. 9.baby symposium 2021. September, 16-18, 2021, Bologna, Italy.
- Casarini L. Seminar: LH vs hCG differences: link between in vitro responses and pathophysiology. Journée Merck – La LH - une gonadotrophine à part... September 9-10, 2021. Lyon, France.
- Casarini L. Expert opinion. Ferring Pharmaceuticals symposium: Advancing ART: Conversations of legacies, new data, and a look into the future. ESHRE 2020. Online congress. July 05-08, 2020.
- Casarini L. Seminar: GPER and Gonadotropin action. Le Studium Conference “Targeting GPCR to generate life, preserve the environment and improve animal breeding: technological and pharmacological challenges”. Tours, France. October, 16-18, 2019.
- Casarini L. Seminar: Susceptibility to papillary thyroid cancer: detection of the main genetic signature of a polygenic disease in Italian patients. Universitätsklinikum Münster, Münster, Germany. August 28, 2019.

- Casarini L. Seminar: Central role of GPR30 and FSHR heterodimerization and concerted action in the determination of ovarian follicular fate. INRA, Nouzilly, France. May 17, 2019.
- Casarini L. Opinion leader plenary lecture: "LH vs hCG mode of action". EMEA Fertility Summit Merck - Unlock the potential. Athens Marriot Hotel, Athens, Greece. October 29-31 2018.
- Casarini L. Seminar: "LH and hCG: Two hormones for one receptor". Institute of Reproductive and Developmental Biology (IRDB), Dept. Surgery and Cancer, Imperial College London, UK. March 15 2018.
- Casarini L. Speaker: *L'LH nella follicologenesi e le differenze con l'hCG. Ruolo dell'LH nei percorsi di procreazione medicalmente assistita*. Naples, Italy, Decmber 21 2017.
- Casarini L. Speaker: Follicular fate: A tale orchestrated by estrogens and FSH. New Insights Into GNDs: The Right Question Leads The Right Answer - VI Edition. Rome, Italia. October 10-11 2017.
- Casarini L. Speaker: Differences between LH- and hCG-mediated signaling. IV International Conference on Gonadotropins and Receptors/12th International Symposium on GnRH (<http://www.icgr2017.com>). Modena, Italy, September 20-23 2017.
- Casarini L. Seminar: Life and death signals mediated by gonadotropins in ovarian cells. Seminario per la PhD School "Biotecnologie mediche e medicina traslazionale, sezione riproduzione e sviluppo" University of Rome Tor Vergata. Rome, Italy. January 27 2017.
- Casarini L. Speaker: Primary Leydig cells naturally expressing mouse LHR do not discriminate between LH and hCG signaling *in vitro*. New Insights into gonadotropins' signaling: a multidisciplinary challenge for scientists - V Edition. Florence, Italy. October 27-28 2016
- Casarini L. Speaker: Different LH and HCG mediated signaling. 6° Congresso portuges de Medicina da Reproducao (SPMR). Ferring satellite symposium. Ilhavo, Alveiro, Portugal. May 12-13 2016.
- Casarini L. Speaker: From pituitary to the gonads: molecular functions of the gonadotropins. 4I - Incontri Italiani Malattie Ipotalamo-Ipofisarie. IX Ed. Turin, Italy. February 11-13 2016.
- Casarini L. Speaker: Gonadotropin regulation of apoptosis mechanism in granulosa cells. New insights into gonadotrophins signalling: a challenge for embryologists - IV Edition. Alghero, Sassari, Italy. October 22-23 2015.
- Casarini L. Speaker: Effetti molecolari delle gonadotropine in cellule della granulosa umane. VIII Giornate Pontine di Andrologia e Medicina della Riproduzione. Sabaudia, Latina, Italy. October 1-2 2014.
- Casarini L. Discussant in: Cumulus cells gene expression: impact of hormones - speaker: Dr Marzia Barberi. Preceptorship 2013. New insight in reproductive health: a challenge for embryologists. Todi, Perugia, Italy. October 24-25 2013.

Selected oral communications:

- Casarini L. Ovarian Follicle Survival Is Determined by Follicle-Stimulating Hormone Receptor (FSHR) and Estrogen Receptor (GPER) Heteromers. ENDO 2020, online congress. June 8-19, 2020.
- Casarini L. Luteinizing hormone and human chorionic gonadotropin (hCG) action on the same receptor results in different *in vitro* intracellular signaling in mouse primary Leydig cells. 41th Symposium on Hormones and Cell Regulation. Mont Ste Odile, Strasbourg, France, October 05-08 2016.
- Casarini L. Proliferative vs apoptotic signals in granulosa cells: β -arrestins as switch between life and death *in vitro*. 3rd European Young Endocrine Scientists (EYES) meeting. Modena, Italy, September 24-26 2015.
- Casarini L, Simoni M. β -arrestins regulate human FSHR signalling towards proliferative or apoptotic signals in granulosa cells *in vitro*. *Selected oral poster presentation (PP006)*. International Conference on Gonadotropins & Receptors (ICGRIII-2014), Tours, France, September 07-10, 2014.
- Casarini L, Moriondo V, Marino M, Adversi F, Capodanno F, Palomba S, Grisolia C, La Marca A, La Sala GB, Simoni M. Il polimorfismo p.N680S di FSHR media differenti cinetiche della risposta a FSH *in vitro*. *Selected oral poster presentation (PP011)*. 37 Congresso Nazionale della Società Italiana di Endocrinologia (SIE) e XXXI Giornate Endocrinologiche Pisane (GEP). Pisa, Italy, 10-12 April 2014.
- Casarini L. LH and hCG produce different responses in human granulosa lutein cells *in vitro*. Congress of the International Society of Endocrinology and of the European Society of Endocrinology (ICE-ECE 2012). Florence, Italy. May 5-9 2012.

- Casarini L. Il recettore comune di LH e hCG media una differente risposta cellulare in vitro. CIRMAR Scientific Meeting. Milan, Italy. June 28 2011.
- Casarini L. Does stable expression of FSHR inhibit the growth of granulosa cell lines? Incontro scientifico EnGiol - Modena. Modena, Italy. November. 11-12 2011.
- Casarini L. Il recettore comune di LH e hCG media una differente risposta cellulare in vitro. 35 Congresso Nazionale della Società Italiana di Endocrinologia (SIE). Montesilvano Pescara, Italy. May 18-21 2011.
- Casarini L. Effects of the protein pheromone Er-1 isolated from the ciliate Euplotes raikovi on the phagocytic activity of the bivalve Mytilus galloprovincialis. Xth Scientific Meeting of the Italian Society of Developmental and Comparative Immunobiology (IADCI). Pesaro Urbino, Italy. February 18-20 2009.

Organization of conferences

- How to master gonadotrophins in folliculogenesis. International Workshop. LH - FSH adjustment to optimize ovarian response. MedEA, Medical Education Academy. September 27, 2024. Maranello, Modena, Italy.
- Casarini L. ICGR-V – 5th International Conference on Gonadotropins and Receptors – Le Studium Conferences. March 12-15, 2024. Tours, France.
- Casarini L. IV International Conference on Gonadotropins and Receptors/12th International Symposium on GnRH (<http://www.icgr2017.com>). September 20-23, 2017. Modena, Italy.
- Casarini L. Incontro scientifico EnGiol - Modena. November. 11-12 2011. Modena, Italy.

Modena (Italy), 03/06/2025
LIVIO CASARINI