


Curriculum Vitae	
Cognome / Nome	Casarini Livio
Born	07 January 1979
Phone office	+39.059 396 2010 - 1713
e-mail	livio.casarini@unimore.it
Web page	http://personale.unimore.it/AddressBook/Home/lcasarini
Spoken languages	Italian, English.
Current position	Associate Professor of Technical Sciences in Laboratory Medicine, S.C. 06/N1; S.S.D. MED/46, at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy).
Activity	Research team leader of the translational endocrinology, pharmacogenetics and sex hormone physiology Group at Unit of Endocrinology, Dept. Biomedical, Metabolic and Neural Sciences (University of Modena and Reggio Emilia, Modena, Italy). Person in charge of the University Research Laboratory of Endocrinology and Metabolism (Sant'Agostino-Estense Hospital, 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 a.y. 2020/21	BLSA-55 Endocrinology, metabolism and nutrition Master Degree Course: Experimental and Applied Biology (D.M. 270/04) Dept. Life Sciences BTM-50 New insights in personalized therapy Master Degree Course: Medical Biotechnology (D.M. 270/04) Dept. Life Sciences BTM-45 Sciences and techniques of cellular and molecular endocrinology Master Degree Course: Medical Biotechnology (D.M. 270/04) Dept. Life Sciences TLB_270_41 Immunology, immunoematology, general and endocrine physiopathology Degree Course: Techniques of Biomedical Laboratory (D.M. 270/04) Dept. Department of Surgery, Medicine, Dentistry and Morphological Sciences with Interest in Transplant, Oncological and Regenerative Medicine
Career track	> 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 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

	<p>Medicine" (University of Modena and Reggio Emilia, Modena, Italy).</p> <ul style="list-style-type: none"> > 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 <i>Xenopus laevis</i>. 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 <i>Mamestra brassicae</i>. Tutor: professor Mauro Mandrioli. > 1998 – Diploma of Technical Expert in Industrial Physics by Istituto Tecnico Industriale Statale F. Corni, Modena.
<p>International and national collaborations</p>	<ul style="list-style-type: none"> > 2021 - 2023 – International research project “Non-hormonal contraception by nanobody-mediated modulation of ovarian GCPRs” 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 – 2022 – 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). > 2021-2022 – National research project “Characterization of LH- and hCG-induced steroidogenesis”, with Università Alma Mater Bologna (Bologna, Italy - Prof. Uberto Pagotto). > 2019-to date – National research project PRIN 2017 entitled “Multilevel machine learning of toxicogenomic, molecular, endocrine, genotoxic and transgenerational effects of air pollution on reproduction”. > 2019-to date – 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-to date – 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).

	<ul style="list-style-type: none"> > 2016-2020 - International research project on comparison <i>in vitro</i> 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-to date – 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-Esternse 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 - 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 “<i>Circadian clock and fertility</i>”, 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 – Collaborator involved in the national PRIN project “<i>A.M.L.E.T. Androgens, metabolism, lifestyle and environment: testicular functioning for health</i>” (P.I. prof. Manuela Simoni). Granted by MIUR. > 2009-2011 - Collaborator in the international 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).
<p style="text-align: center;">Tutoring</p>	<p>Senior Researchers</p> <ul style="list-style-type: none"> > 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. <p>Post-Doc Fellows</p> <ul style="list-style-type: none"> > 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 15/12/2023. Tutor: Livio Casarini. > Dr. Elisa Mascolo Project: “Non-hormonal contraception via modulation of ovarian GPCRs by nano-antibodies”- S.S.D. MED/46 (University of Modena and Reggio Emilia). From 16/06/2021 to 15/06/2023. 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. <p>PhD students</p> <ul style="list-style-type: none"> > 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. <p>Master Degree students at University of Modena and Reggio Emilia More than 20, available at the web link: https://morethesis.unimore.it</p> <p>Other national and international degree students:</p>

	<p>> Eric Adriano Zizzi. Polytechnic of Turin. Title: <i>Internship in a biomedical laboratory</i>. Year 2017 (20/02-01/03). Relator: Prof. Manuela Simoni. Coordinators: Livio Casarini, Laura Riccetti.</p> <p>> Jill Gromoll. Universitätsklinikum Münster (Germany). Title: <i>Internship in a biomedical laboratory</i>. Year 2015 (10-30/09). Relator: Manuela Simoni. Coordinator: Livio Casarini.</p> <p>> Kristin Gehling. University of Cologne (Germany). Title: <i>Internship in a biomedical laboratory</i>. Year 2015 (10-30/09). Relator: Manuela Simoni. Coordinator: Livio Casarini.</p> <p>High school students:</p> <p>> Ebenezer Anokye Manu. I.T.I.S. Fermo Corni (Modena). Title: <i>Genetic manipulations aimed at the transformation of eukaryotic cells</i>. Year 2010. Relator: Prof.ssa Manuela Simoni. Coordinator: Livio Casarini.</p>
Competitive grants	<p>> 2021 - Bill & Melinda Gates Foundation "Grand Challenge Grants, section: non-hormonal contraceptives". Title of the project: <i>Non-Hormonal Contraception by Nanobody Produced from Within the Body</i>. Role: P.I. of the Unit "University of Modena and Reggio Emilia" (398400 \$). P.I. of the project: Prof. Eric Reiter (INRAE, University of Tours, France) – total grant: 1800000 \$.</p> <p>> 2021 - "Fondo di Ateneo per la Ricerca (FAR) Attrezzature Dipartimentale 2020" of the University of Modena and Reggio Emilia. Role: Proposer; grant: 7881,20 €.</p> <p>> 2020 - HHV-6 Foundation, Dharam Ablashi Research Fund – "Pilot Grant Program". Titolo del progetto: <i>Assessment of the effects of HHV-6A infection on the thyroid follicular epithelial cells autophagy and prosurvival signaling</i>. 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 €.</p> <p>> 2018 - "Fondo di Ateneo per la Ricerca (FAR) Attrezzature 2018" of the University of Modena and Reggio Emilia. Role: Co-proposer; grant: 18000 €.</p> <p>> 2017 - "Fondo di Finanziamento per le Attività Base di Ricerca (FFABR)" – Agenza Nazionale per la Valutazione dell'Università e della Ricerca (ANVUR). Role: Proposer; grant: 3000 €.</p> <p>> 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 €.</p>
Responsibility for scientific studies and researches entrusted by qualified public or private institutions	<p>> 2021 – 3-y research agreement with INRAE Nouzilly (Francia), in the context of a Bill & Melinda Gates Foundation "Grand Challenge Grants, section: non-hormonal contraceptives", for the project "<i>Non-Hormonal Contraception by Nanobody Produced from Within the Body</i>" (398400 \$).</p> <p>> 2021 – 2-y research contract with Merck KGaA (Darmstadt, Germany) and Dexeus Salud Hospital (Barcelona, Spain) for the in vitro project "<i>Genetic variation in genes related to folliculogenesis and steroidogenesis in women of Caucasian and Asian origin</i>" (25000 €).</p> <p>> 2021 – 3-y research contract with Merck KGaA, for the in vitro project "<i>Characterization of LH- and hCG-induced steroidogenesis</i>" (60000 €).</p> <p>> 2019 – 3-y research contract with Merck KGaA, for the in vitro project "<i>Crosstalk between FSH and estrogen receptors in ovarian follicle dominance or death</i>" (150000 €).</p>
Awards	<p>> 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).</p> <p>> 2017 - "<i>Top cited article</i>" award from the European Journal of Endocrinology, for the publication "Simoni M and Casarini L. Eur J Endocrinol. 2014 170(3):R91-R107.</p> <p>> 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.</p> <p>> 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).</p> <p>> 2012 – Recommendation of relevance from the Faculty of 1000 Prime to the scientific article "Casarini L. et al. PLoS One. 2012 7(10):e46682".</p>
Abroad internships	<p>> 2015 - "<i>Short-Term Scientific Mission</i>" (02-27 March) at the Department of Biology, Unit of Biochemistry, University of Fribourg (Fribourg, Switzerland, Prof. Urs Albrecht). Project title: <i>Circadian rhythm and fertility</i>.</p> <p>> 2010 - Short-term scientific mission (22-27 March) at the Universitätsklinikum Münster (Münster, Germany, Prof. Jörg Gromoll). Project title: "<i>Molecular pharmacogenetics of the response to the follicle-stimulating hormone (FSH): role of FSH receptor genetic variants</i>".</p>
Academic activities	<p>> Member of the Council of International PhD School "Clinical and Experimental Medicine" (University of Modena and Reggio Emilia, Modena, Italy).</p> <p>> 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).</p> <p>> 2011-2020 – Member of the Center for Genomic Research, ENDOLAB <i>unit</i> (University of Modena and Reggio Emilia), for which he has played and plays a fundamental role in the recognition of</p>

	<p>Accreditamento Tecnologico from Regione Emilia Romagna (Italy).</p> <p>> “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</p> <p>> 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.</p>
Membership and roles in Scientific Societies	<p>> 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</p> <p>> Member of the Scientific Committee of the society Società Italiana di Embriologia Riproduzione e Ricerca (SIERR) – Web Site: www.sierr.it</p> <p>> Member of the European Society of Endocrinology (ESE) - Web site: www.es-e-hormones.org</p> <p>> Società Italiana di Endocrinologia (SIE) - Web site: www.societaitalianadiendocrinologia.it</p> <p>> Since 2019 - Secretary of the Associazione Scientifica di Endocrinologia, Andrologia e Metabolismo (A.S.E.A.M.)</p>
Organization of Scientific Events	<p>> 2017 – Member of the Local Organizing Committee of the international congress “1st ICGR-GnHR Congress”, 20-23 September 2017, Modena, Italy.</p> <p>> 2011 – Member of the Local Organizing Committee of the national congress “1st Scientific Meeting EnGiol”, 11-12 November 2011, Modena, Italy.</p>
Reviewer for Research Institutions	<p>> 2018-2021. Reviewer for the Slovenian Research Agency (ARRS), Slovenia.</p> <p>> 2019. Reviewer for the Biotechnology and Biological Sciences Research Council (BBSRC), UK.</p>
Editorial activities	<p>Editorial Board membership: Molecular Human Reproduction (https://academic.oup.com/molehr/pages/Editorial_Board); Andrology (https://onlinelibrary.wiley.com/page/journal/20472927/homepage/editorialboard.html).</p> <p>Guest Editor: Frontiers: “Follicle-Stimulating Hormone: Beyond Fertility” (https://www.frontiersin.org/research-topics/7798/follicle-stimulating-hormone-beyond-fertility). Minerva Ginecologica: “New insights in molecular human reproduction”.</p> <p>Review Editor: Frontiers in Cell and Developmental Biology; Frontiers in Cellular Endocrinology; Frontiers in Physiology (https://loop.frontiersin.org/people/258538/overview).</p> <p>Reviewer per riviste scientifiche internazionali: www.publons.com</p>
Private scientific consulences	<p>> 2017 - Scientific consulence for Merck Serono S.p.A., via Casilina 125 – 00176 Roma, Italia (N. di Ordine/Buyer/data 4501951149 / 740 / 24.07.2017).</p>
Publications	<p>Peer-reviewed articles (in bold when first, last, corresponding author):</p> <ul style="list-style-type: none"> ▪ Limoncella S, Lazzaretti C, Paradiso E, D'Alessandro S, Barbagallo F, Pacifico S, Guerrini R, Tagliavini S, Trenti T, Santi D, Simoni M, Sola M, Di Rocco G, Casarini L. Phosphodiesterase (PDE) 5 inhibitors sildenafil, tadalafil and vardenafil impact cAMP-specific PDE8 isoforms-linked second messengers and steroid production in a mouse Leydig tumor cell line. Mol Cell Endocrinol. 2021;111527. doi: 10.1016/j.mce.2021.111527. <i>Epub ahead of print</i>. ▪ Roy N, Mascolo E, Lazzaretti C, Paradiso E, D'Alessandro S, Zaręba K, Simoni M, Casarini L. Endocrine Disruption of the Follicle-Stimulating Hormone Receptor Signaling During the Human Antral Follicle Growth. Front. Endocrinol. 2021. https://doi.org/10.3389/fendo.2021.791763. <i>Epub ahead of print</i>. ▪ Beltran-Frutos E, Casarini L, Santi D, Brigante G. Seasonal reproduction and gonadal function: A focus on humans starting from animal studies. Biol Reprod. 2021:ioab199. ▪ Golinelli G, Grisendi G, Dall'Ora M, Casari G, Spano C, Talami R, Banchelli F, Prapa M, Chiavelli C, Rossignoli F, Candini O, D'Amico R, Nasi M, Cossarizza A, Casarini L, Dominici M. Anti-GD2 CAR MSCs against metastatic Ewing's sarcoma. Transl Oncol. 2021;15(1):101240. ▪ De Pascali F, Casarini L, Kuhn C, Simoni M, Mahner S, Jeschke U, von Schönfeldt V. Nuclear expression of VDR and AHR is mutually exclusive in glandular cells in endometriosis. Histochem Cell Biol. 2021;156(4):391-399. ▪ De Pascali F, Ayoub MA, Benevelli R, Sposini S, Lehoux J, Gallay N, Raynaud P, Landomiel F, Jean-Alphonse F, Gauthier C, Pellissier LP, Crépieux P, Poupon A, Inoue A, Joubert N, Viaud-Massuard MC, Casarini L, Simoni M, Hanyaloglu AC, Nataraja SG, Yu HN, Palmer SS, Yvinec R, Reiter E. Pharmacological Characterization of Low Molecular Weight Biased Agonists at the Follicle Stimulating Hormone Receptor. Int J Mol Sci. 2021;22(18):9850. ▪ Sperduti S, Lazzaretti C, Paradiso E, Anzivino C, Villani MT, De Feo G, Simoni M,

Casarini L. Quantification of hormone membrane receptor FSHR, GPER and LHCGR transcripts in human primary granulosa lutein cells by real-time quantitative PCR and digital droplet PCR. *Gene Rep.* 2021;101194.

- Brigante G, Craparo A, Pignatti E, Marino M, Monzani ML, De Vincentis S, **Casarini L**, Sperduti S, Boselli G, Margiotta G, Ippolito M, Rochira V, Simoni M. Real-life use of BRAF-V600E mutation analysis in thyroid nodule fine needle aspiration: consequences on clinical decision-making. *Endocrine.* 2021;73(3):625-632.
- **Casarini L**, Simoni M. Recent advances in understanding gonadotropin signaling. *Fac Rev.* 2021;10:41.
- Santi D, Spaggiari G, Greco C, Lazzaretti C, Paradiso E, **Casarini L**, Poti F, Brigante G, Simoni M. The "Hitchhiker's Guide to the Galaxy" of Endothelial Dysfunction Markers in Human Fertility. *Int J Mol Sci.* 2021;22(5):2584.
- Paradiso E, Lazzaretti C, Sperduti S, Antoniani F, Fornari G, Brigante G, Di Rocco G, Tagliavini S, Trenti T, Morini D, Falbo AI, Villani MT, Nofer JR, Simoni M, Poti F, **Casarini L**. Sphingosine-1 phosphate induces cAMP/PKA-independent phosphorylation of the cAMP response element-binding protein (CREB) in granulosa cells. *Mol Cell Endocrinol.* 2021;520:111082.
- Lazzaretti C, Secco V, Paradiso E, Sperduti S, Rutz C, Kreuchwig A, Krause G, Simoni M, **Casarini L**. Identification of Key Receptor Residues Discriminating Human Chorionic Gonadotropin (hCG)- and Luteinizing Hormone (LH)-Specific Signaling. *Int J Mol Sci.* 2020;22(1):151.
- **Casarini L**, Lazzaretti C, Paradiso E, Limoncella S, Riccetti L, Sperduti S, Melli B, Marcozzi S, Anzivino C, Sayers NS, Czapinski J, Brigante G, Poti F, La Marca A, De Pascali F, Reiter E, Falbo A, Daolio J, Villani MT, Lispi M, Orlando G, Klinger FG, Fanelli F, Rivero-Müller A, Hanyaloglu AC, Simoni M. Membrane Estrogen Receptor (GPER) and Follicle-Stimulating Hormone Receptor (FSHR) Heteromeric Complexes Promote Human Ovarian Follicle Survival. *iScience.* 2020;23(12):101812.
- Linciano P, Sorbi C, Comitato A, Lesniak A, Bujalska-Zadrozny M, Pawłowska A, Bielenica A, Orzelska-Górka J, Kędzierska E, Biała G, Ronsisvalle S, Limoncella S, **Casarini L**, Cichero E, Fossa P, Satała G, Bojarski AJ, Brasili L, Bardoni R, Franchini S. Identification of a Potent and Selective 5-HT_{1A} Receptor Agonist with In Vitro and In Vivo Antinociceptive Activity. *ACS Chem Neurosci.* 2020;11(24):4111-4127.
- **Casarini L**, Riccetti L, Paradiso E, Benevelli R, Lazzaretti C, Sperduti S, Melli B, Tagliavini S, Varani M, Trenti T, Morini D, Falbo A, Villani MT, Jonas KC, Simoni M. Two human menopausal gonadotrophin (hMG) preparations display different early signaling in vitro. *Mol Hum Reprod.* 2020;26(12):894-905.
- Czogalla B, Partenheimer A, Jeschke U, von Schönfeldt V, Mayr D, Mahner S, Burges A, Simoni M, Melli B, Benevelli R, Bertini S, **Casarini L**, Trillsch F. β -arrestin 2 Is a Prognostic Factor for Survival of Ovarian Cancer Patients Upregulating Cell Proliferation. *Front Endocrinol (Lausanne).* 2020;11:554733.
- Santi D, Spaggiari G, Casonati A, **Casarini L**, Grassi R, Vecchi B, Roli L, De Santis MC, Orlando G, Gravotta E, Baraldi E, Setti M, Trenti T, Simoni M. Multilevel approach to male fertility by machine learning highlights a hidden link between haematological and spermatogenic cells. *Andrology.* 2020;8(5):1021-1029.
- Simoni M, Brigante G, Rochira V, Santi D, **Casarini L**. Prospects for FSH Treatment of Male Infertility. *J Clin Endocrinol Metab.* 2020;105(7):dga243.
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Book Chapters:

- 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.
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Invited speaker/discussant (totali 12):

- 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, December 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 português 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 umana. 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.

Comunicazioni orali selezionate (totali 10):

- 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.

Modena, 01/03/2021
LIVIO CASARINI

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.