



Curriculum Vitae

First name/Surname	Clara Lazzaretti
Phone	+39 3336020867
e-mail	clara.lazzaretti@unimore.it clara.lazzaretti@pec.it
Skype account	live:lazzaretti.clara
Nationality	Italian
Date of birth	5 January 1993
Mother tongue	Italian
Other languages	English
Driving license	Category B
<u>Current occupation</u>	
1 st August 2023 – 31 st July 2026	Fixed term Assistant Professor (art. 24, comma 3 – lettera a) law 240/10 - S.C. 06/N1; S.S.D. MEDS-26/A Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia via Giuseppe Campi 287, 41125, Modena, IT
<u>Previous occupations</u>	
1 st February 2022 – 31 st July 2023	Postdoctoral Researcher Project “Dipartimenti Eccellenti 2018/2022” Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia via Giuseppe Campi 287, 41125, Modena, IT Supervisor: Prof. Manuela Simoni

Research Area

Basic and translational research in endocrine pathophysiology and human reproduction, G protein- coupled receptors, glycoprotein hormones and their receptors, biology, fertility. Technical skills: eukaryotic and prokaryotic cell culture and transfection methods; study of intracellular signalling, BRET/FRET techniques; human granulosa cells isolation; Western blot analysis; confocal microscopy; high resolution microscopy; photoactivated localization microscopy using photoactivable dyes (PD-PALM); mass spectrometry.

Bibliometrics

ORCID: 0000-0002-4553-4191

Researcher ID: FJZ-0306-2022

Scopus Author ID: 57197791591

h-index: 11

Publications= 28

Citations= 296

Teaching

- **[BIOS-0034] Endocrine and metabolic laboratory techniques**
Master Degree Course: LM-6 Biosciences (D.M. 270/04)
Dept. Life Sciences
- **[TLB_270_37] Biomedical Training on Translational Endocrinology**
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
- Lecturer of the seminar "Regulation of antral follicular growth by an interplay between gonadotropins and their receptors" within the workshop "Dall'ovogenesi dell'impianto ed oltre: un viaggio nella riproduzione umana" organized by Società italiana Embriologia Riproduzione e Ricerca (SIERR), 5th March 2023 – 4th March 2024.
- A.Y. 2022/2023: Students tutor in the course of Biomedical Training on Translational Endocrinology
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

Biologist qualifying examination (Esame di stato biologo)

II Session 2021 at University of Modena and Reggio Emilia

Education

1st November 2018 -
31th October 2021

PhD student in Clinical and Experimental Medicine (CEM; XXXIV cycle)

Winner of a Granted position

Molecular and cellular action of reproductive hormones

Dept. Biomedical, Metabolic and Neural Sciences

University of Modena and Reggio Emilia

via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Dr. Livio Casarini

11th April 2018

Master's degree in Experimental and Applied Biology

Thesis Title: "Functional characterization of two follicle-stimulating hormone receptor mutations associated with spontaneous ovarian hyperstimulation syndrome"

Assessment: 110/110 cum laude

Dept. of Life Sciences

University of Modena and Reggio Emilia

via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Dr. Livio Casarini

12th October 2015

Bachelor's degree in Biological Sciences

Thesis Title: "Pendrina-like immunolocalization in organs with ionic regulation function of *Branchiostoma floridae*, Hubbs, 1922"

Assessment: 109/110

Dept. of Life Sciences

University of Modena and Reggio Emilia

via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Prof. L. Mola

Subject expert

(cultore della materia)

- A.Y. 2025/2026. Degree Course: Techniques of Biomedical Laboratory: subject "Immunology, Immunoematology, General and Endocrine Pathophysiology", module of Endocrine Pathophysiology (MEDS-26/A); and Biomedical Training on Translational Endocrinology (MEDS-26/A)
- A.Y. 2024/2025. Degree Course: Techniques of Biomedical Laboratory: subject "Immunology, Immunoematology, General and Endocrine Pathophysiology", module of Endocrine Pathophysiology (MEDS-26/A); and Biomedical Training on Translational Endocrinology (MEDS-26/A)
- A.Y. 2023/2024. Degree Course: Techniques of Biomedical Laboratory: subject "Immunology, Immunoematology, General and Endocrine Pathophysiology", module of Endocrine Pathophysiology (MED/46); and Biomedical Training on Translational Endocrinology (MED/46)
- A.Y. 2022/2023. Master Degree Course in Medical Biotechnologies (LM-9): subject "New developments of personalized therapy" (MED/46).

- A.Y. 2022/2023. Master Degree Course in Experimental and Applied Biology (LM-6): subject “Immunobiology and integrated biological functions” (MED/46)
- A.Y. 2022/2023: Degree Course: Techniques of Biomedical Laboratory: subject “Immunology, Immunohematology, General and Endocrine Pathophysiology”, module of Endocrine Pathophysiology (MED/46); and Biomedical Training on Translational Endocrinology (MED/46)
- A.Y. 2021/2022: Degree Course: Techniques of Biomedical Laboratory: subject “Immunology, Immunohematology, General and Endocrine Pathophysiology”, module of Endocrine Pathophysiology (MED/46); link: <https://www.medicina.unimore.it/site/home/didattica/cultori-della-materia/cultori-della-materia-202122.html>
- A.Y. 2020/2021: Degree Course: Techniques of Biomedical Laboratory: subject “Immunology, Immunohematology, General and Endocrine Pathophysiology”, module of Endocrine Pathophysiology (MED/46); link: <https://www.medicina.unimore.it/site/home/didattica/cultori-della-materia/cultori-della-materia-202021.html>
- A.Y. 2019/2020: Degree Course: Techniques of Biomedical Laboratory: subject “Immunology, Immunohematology, General and Endocrine Pathophysiology”, module of Endocrine Pathophysiology (MED/46); link: <https://www.medicina.unimore.it/site/home/didattica/cultori-della-materia/cultori-della-materia-201920.html>

Tutoring

Available at the web link: <https://morethesis.unimore.it/>

Dr Elia Croci; Master’s Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: “Internalizzazione e *signalling* mediato da eteromeri di recettori ovarici” A.Y. 2023/2024. Supervisor: **Dr. Clara Lazzaretti**, Co-rapporteur: Prof. Livio Casarini, Co-rapporteur: Dr Carmela Perri.

Dr Anastasia Sist; Master’s Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: “Modulazione allosterica dei recettori di FSH e LH mediata da nano-anticorpi” A.Y. 2024/2025. Supervisor: Prof. Livio Casarini, Co-rapporteur: Dr. Eric Reiter, Co-rapporteur: **Dr. Clara Lazzaretti**.

Dr. Elisabetta Luppi; Bachelor’s degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: “Espressione di marker genici nel tumore ovarico sieroso di alto grado”. A.Y. 2023/2024. Supervisor: **Dr. Clara Lazzaretti**, Co-rapporteur: Prof. Livio Casarini, Co-rapporteur: Dr. Samantha Sperduti.

Dr. Caterina Santolini; Bachelor's degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Confronto in vitro tra due preparazioni commerciali di FSH". A.Y. 2023/2024.

Supervisor: **Dr. Clara Lazzaretti**, Co-rapporteur: Prof. Livio Casarini, Co-rapporteur: Dr. Lara Baschieri.

Dr. Lorenzo Marchetti; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia).

Title: "Valutazione della cross-interazione tra la gonadotropina corionica umana (hCG) e il recettore della tireotropina (TSHR) come razionale molecolare alla base dell'iperemesi gravidica". A.Y. 2023/2024.

Supervisor: **Dr. Clara Lazzaretti**, Co-rapporteur: Prof. Livio Casarini, Co-rapporteur: Dr. Carmela Perri.

Dr. Giorgia Montante; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia).

Title: "Modulazione allosterica del recettore dell'ormone luteinizzante (LH) mediante nanoanticorpi con potenziale contraccettivo". A.Y. 2022/2023.

Supervisor: Prof. Livio Casarini, Co-rapporteur: Dr. Carmela Perri, Co-rapporteur: **Dr. Clara Lazzaretti**.

Dr. Silvia Sciacca; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title:

"Caratterizzazione in vitro di nanoanticorpi con funzione di modulatori allosterici del recettore dell'ormone follicolo stimolante (FSHR)". A.Y. 2022/2023.

Supervisor: Prof. Livio Casarini, Co-rapporteur: Dr. Lara Baschieri, Co-rapporteur: **Dr. Clara Lazzaretti**.

Dr. Teresa Caterino; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia).

Title: "Caratterizzazione dei meccanismi di internalizzazione del recettore dell'ormone follicolo-stimolante (FSHR) indotta da due preparazioni commerciali di FSH in diversa formulazione". A.Y. 2022/2023

Supervisor: Prof. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Carmela Perri.

Dr. Martina Torri; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title:

"Analisi dell'espressione di geni marker tumorali in linee cellulari ovariche". A.Y. 2021/2022

Supervisor: Prof. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Samantha Sperduti.

Dr. Lorenzo Molino; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia).

Title: "Modulazione indotta dal recettore degli estrogeni sul trafficking

del recettore dell'FSH". A.Y. 2021-2022. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Ginevra Pelagatti; Bachelor's degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Eteromeri di recettori degli estrogeni e gonadotropine mediano i segnali LH/hCG-dipendenti". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Riccardo Bellei; Bachelor's degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Vie di trasduzione del segnale ligando-specifiche mediate dall'ormone luteinizzante e dalla coriogonadotropina". A.Y. 2021-2022. Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Elia Paradiso, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Carmela Perri; Master's Degree in Medical Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Ruolo del recettore di membrana degli estrogeni in linee cellulari tumorali tiroidee". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Sara D'Alessandro, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Luca Tegoni; Master's Degree in Medical Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Ruolo della proteina chinasi B (AKT) nella steroidogenesi LH/hCG-mediata, nella linea cellulare murina tumorale mLTC-1". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Elia Paradiso, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Deborah Salvatore; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Caratterizzazione del clone della linea cellulare ovarica KGN esprime il recettore inducibile LHCGR". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Elia Paradiso, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Serena De Carlini; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Caratterizzazione in vitro di eteromeri dei recettori dell'ormone luteinizzante e dell'estradiolo (LHCGR/GPER)". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Beatrice Casadei Garofani; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Analisi dell'internalizzazione del complesso formato dai recettori dell'ormone follicolo-stimolante e degli estrogeni (FSHR/GPER)". A.Y. 2020-2021. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Cristina Nardelli; Bachelor's degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Caratterizzazione funzionale di cellule ovariche KGN overesprimenti LHCGR". A.Y. 2020-2021.

Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Elia Paradiso, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Bruno Cornelio; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Differenze tra le cinetiche di attivazione e internalizzazione del recettore indotte dai due ligandi naturali, ormone luteinizzante (LH) e gonadotropina corionica umana (hCG)". A.Y. 2019-2020 Supervisor: Dr. Livio Casarini, Co-rapporteur: Dr. Elia Paradiso, Co-rapporteur: **Dr. Clara Lazzaretti**

Dr. Sidita Rama; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Analisi in silico di database genomici e network funzionali per l'individuazione di geni predittivi del tumore ovarico". A.Y. 2019-2020. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Valentina Debbi; Bachelor's degree in Biological Sciences; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Espressione e valutazione della funzionalità del recettore dell'ormone luteinizzante (LHCGR) in linee cellulari steroidogeniche e surrenaliche". A.Y. 2019-2020. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Tommaso Ferrari; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Effetti di bisfenolo A e benzo[a]pirene sulle funzioni endocrine di cellule della granulosa umane". A.Y. 2019-2020. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Samantha Sperduti

Dr. Francesca Reggianini; Master's Degree in Experimental and Applied Biology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Effetti di bisfenolo A e benzo[a]pirene sulle funzioni endocrine di cellule di Leydig". A.Y. 2019-2020. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Dr. Elia Paradiso

Dr. Beatrice Melli; Master's degree in Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Il recettore per gli estrogeni GPER inibisce la produzione di cAMP FSH-mediata, attraverso eterodimerizzazione con FSHR". A.Y. 2019-2020. Supervisor: Dr. Livio Casarini, Co-rapporteur: **Dr. Clara Lazzaretti**, Co-rapporteur: Elia Paradiso.

Abroad experience

1st June 2019 - 15th March 2020

10-month at the Imperial College London, London, UK

Tutor: Dr. Aylin C. Hanlyaloglu

1st September 2016 –

31th December 2016

4-month “Erasmus Plus” internship.

Hosting institution: Professor Yläanne Jari laboratory, research team of Cell Adhesion and Cytoskeleton Dynamics, Dept. of Biological and Environmental Sciences, University of Jyväskylä, Jyväskylä, Finland, FI.

Internships

3rd December 2018 - 8th

December 2018

1-week Internship at University of Tor Vergata Roma.

Training in ovarian follicle 3D culture and immunohistochemical / immunofluorescence techniques. Professor Francesca Gioia Klinger, Università di Tor Vergata Roma, Roma, Italy.

Scientific societies

Membership and roles

- Committee member of the ESE Young Endocrinologists & Scientists (EYES)
- European Society of Endocrinology (ESE); Web site: www.es-hormones.org
- Società Italiana Ricerca Traslazionale e Professioni Sanitarie (SIRTEPS); Web site: <https://www.sirteps.it>
- Associazione Scientifica in Endocrinologia, Andrologia e Metabolismo (ASEAM)

Competitive Grants

- 2025- “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution in basic science at the ESPE-ESE Joint Congress, 10th- 13th May 2025, Copenhagen, Denmark (400 €)
- 2024- “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution in basic science at the European Congress of Endocrinology (ECE) 2023, 11th-14th May 2024, Stockholm, Sweden (400 €)
- 2023- “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution in basic science at the European Congress of Endocrinology (ECE) 2023, 13th-16th May 2023, Istanbul, Turkey (400 €)
- 2022- “ESE Meeting Grant” from the European Society of Endocrinology for attending as early career researcher at the 45th Symposium on Hormones and Cell Regulation, 12-15 October 2022 at Mont Sainte-Odile, France (500 €)
- 2022- “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution in basic science at the European Congress of Endocrinology (ECE) 2022, 21-24 May

2022, Milan, Italy (400 €)

- 2019- “ESE Basic Science Meeting Grant” from the European Society of Endocrinology for the contribution in basic science at the European Congress of Endocrinology (ECE) 2019, 18-21 May 2019, Lyon, France (450 €)
- 2018 - Granted position at Doctorate School in Clinical and Experimental Medicine (CEM; XXXIV cycle), from the University of Modena and Reggio Emilia; 1st November 2018-31st October 2021
- 2016- “Programma Erasmus+ Mobilità per Studio – a.a. 2016/2017” from 1st September 2016 to 31st December 2016 (480 €).

Awards

- 2023- “Best Speaker Award” in the session of Reproductive Endocrinology, EYES 2023, 8th- 10th September 2023, Wurzburg, Germany.
- 2022- “Best oral presentation award” for the talk “Detection of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers *in vitro*.”, by LE STUDIUM Conference - Gonadotropins in the Physiopathology: Current advances in the Mechanisms of Action, 14th – 15th September 2022, Online Congress.
- 2019- “attestato di benemerenzza” awarded by the Magnificent Rector of the University of Modena and Reggio Emilia, Prof. Carlo Adolfo Porro, for the contribution to the Academic research.

Selected Oral presentations at International congresses

- **Lazzaretti C.** Luteinizing hormone (LH)- and choriogonadotropin (hCG)-induced internalization of the receptor (LHCGR) leads to ligand-specific signalling. 5th International Conference on Gonadotropins and Receptors (IGCR-V), 12th – 15th March 2024, Tours, France.
- **Lazzaretti C.** Luteinizing hormone/choriogonadotropin receptor (LHCGR)/G protein-coupled estrogen receptor (GPER) heteromers impact on reproductive signals. EYES Meeting 2023, 8th- 10th September 2023, Wurzburg, Germany.
- **Lazzaretti C.** Reprogramming of reproductive signals via human luteinizing hormone/choriogonadotropin receptor (LHCGR)/G protein-coupled estrogen receptor (GPER) heteromers. **25th European Congress of Endocrinology**, 13th-16th May 2023, Istanbul, Turkey.
- **Lazzaretti C.** Detection of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers *in vitro*. LE STUDIUM Conference - Gonadotropins in the Physiopathology: Current advances in the Mechanisms of Action, 14th – 15th September 2022, Online

Congress.

- **Lazzaretti C**, Paradiso E, Sperduti S, Pelagatti G, Sayers N, Simoni M, Hanyaloglu AC, Casarini L. Functional effects of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers *in vitro*. **45th Symposium on Hormones and Cell Regulation - Sex and Signaling: the molecular basis of sex and gender medicine**. 12-15 October 2022 at Mont Sainte-Odile, France.
- **Lazzaretti C**, Sayers N, Paradiso E, Sperduti S, Fanelli F, Simoni M, Hanyaloglu AC & Casarini L. Demonstration of follicle-stimulating hormone receptor and G protein-coupled estrogen receptor heteromers *in vitro* via BRET and super-resolution imaging. *Endocrine Abstracts* (2020) 70 OC9.4 | DOI: 10.1530/endoabs.70.OC9.4. **22nd European Congress of Endocrinology** 5-9 September 2020, Online Congress.
- **Lazzaretti C**, Secco V, Paradiso E, Sperduti S, Kreuchwig A, Simoni M, Krause G, Casarini L. Aminoacidic residues discriminating human choriogonadotropin (hCG) and luteinizing hormone (LH) binding to its receptor (LHCGR). **LE STUDIUM Conference - Targeting GPCR to generate life, preserve the environment and improve animal breeding: technological and pharmacological challenges**, 16-18 October 2019, Tours, France. <https://www.lestudium-ias.com/event/targeting-gpcr-generate-life-preserve-environment-and-improve-animal-breeding-technological>
- **Lazzaretti C**. Central role of GPER and FSHR heterodimerization and concerted action in the determination of ovarian follicular fate. **III Congresso Nazionale «La Riserva Ovarica»**. 16 May 2019, Bologna, Italy.

Other skills and competences

- Progetto FADsicurMORE – “Formazione specifica per rischio basso”
- Progetto FADsicurMORE – “Formazione specifica per rischio medio”
- Progetto FADsicurMORE – “Formazione generale alla prevenzione e alla sicurezza sullavoro”
- Progetto FADsicurMORE – “SARS-COV-2: Cosa È E Come Utilizzare I Dispositivi Di Protezione Individuale”
- Progetto FADsicurMORE – “Indicazioni Per La Prevenzione Della Trasmissione COVID-19”

Progetto FADsicurMORE – “Aggiornamento n. 1 - Promozione Della Salute”

Scientific Publications

Peer-reviewed articles

- Sperduti S, Baschieri L, Cimadomo D, **Lazzaretti C**, Davolio F, Innocenti F, Taggi M, Albricci L, Rienzi L, Vaiarelli A, Ubaldi FM, Simoni M, Casarini L. *Gene expression pattern predictive of human ovarian follicle development and maturation*. Reproduction. 2025 Jul 26;170(2):e250176. doi: 10.1530/REP-25-0176. PMID: 40663384.
- **Lazzaretti C**, Paradiso E, Sperduti S, Richardson RR, Perri C, Bellei R, D'Alessandro S, Baschieri L, Fusco C, Jean-Alphonse F, Reiter E, Lispi M, Simoni M, Hanyaloglu AC, Casarini L. *Trafficking of luteinizing hormone receptor directs the differential signal activation between luteinizing hormone and chorionic gonadotropin*. Int J Biol Macromol. 2025 Jul;318(Pt 3):145247. doi: 10.1016/j.ijbiomac.2025.145247. Epub 2025 Jun 13. PMID: 40517872.
- Brigante G, **Lazzaretti C**, Ahmad A, Colzani M, Vignali F, Zoli M, Simoni M. *The aoretic dialogues of Modena on gender differences: Is it all about testosterone? Episode II: Empathy*. Andrology. 2025 Apr 12. doi: 10.1111/andr.70037. Epub ahead of print. PMID: 40220326.
- **Lazzaretti C**, Ayoub MA, Casarini L. *G protein-coupled receptor-receptor interactions in gonadal physiology*. Andrology. 2024 Dec 9. doi: 10.1111/andr.13821. Epub ahead of print. PMID: 39654317.
- **Lazzaretti C**, Roy N, Paradiso E, Capponi C, Ferrari T, Reggianini F, Sperduti S, Perri C, Baschieri L, Mascolo E, Varani M, Canu G, Trenti T, Nicoli A, Morini D, Iannotti F, Villani MT, Vicini E, Simoni M, Casarini L. *Benzo[a]pyrene disrupts LH/hCG-dependent mouse Leydig cell steroidogenesis through receptor/Gas protein targeting*. Sci Rep. 2024 Jan 8;14(1):844. doi: 10.1038/s41598-024-51516-7. PMID: 38191651; PMCID: PMC10774265.
- Paradiso E, **Lazzaretti C**, Sperduti S, Melli B, Trenti T, Tagliavini S, Roli L, D'Achille F, Beltrán-Frutos E, Simoni M, Casarini L. *Protein kinase B (Akt) blockade inhibits LH/hCG-mediated 17,20-lyase, but not 17 α -hydroxylase activity of Cyp17a1 in mouse Leydig cell steroidogenesis*. Cell Signal. 2023 Nov;111:110872. doi: 10.1016/j.cellsig.2023.110872. Epub 2023 Aug 26. PMID: 37640196.
- Roy N, **Lazzaretti C**, Paradiso E, Capponi C, Ferrari T, Reggianini F, Sperduti S, Baschieri L, Mascolo E, Perri C, Varani M, Canu G, Trenti T, Nicoli A, Morini D, Iannotti F, Villani MT, Vicini E, Simoni M, Casarini L. *Short-Term Exposure to Bisphenol A Does Not Impact Gonadal Cell Steroidogenesis In Vitro*. Cells. 2023 Jun

2;12(11):1537. doi: 10.3390/cells12111537

- **Lazzaretti C**, Simoni M, Casarini L, Paradiso E. *Allosteric modulation of gonadotropin receptors*. Front Endocrinol (Lausanne). 2023 May 25;14:1179079. doi:10.3389/fendo.2023.1179079. eCollection 2023.
- D'Alessandro S, Paradiso E, **Lazzaretti C**, Sperduti S, Perri C, Antoniani F, Righi S, Simoni M, Brigante G, Casarini L. *Intracellular cGMP increase is not involved in thyroid cancer cell death*. PLoS One. 2023 Mar 30;18(3):e0283888. doi: 10.1371/journal.pone.0283888. eCollection 2023.
- Sperduti S, Paradiso E, Anzivino C, **Lazzaretti C**, Limoncella S, D'Alessandro S, Roy N, Reggianini F, Ferrari T, Melli B, La Sala GB, Nicoli A, Daolio J, Villani MT, Tagliavini S, Trenti T, Potì F, Sandhowe R, Centonze C, Lispi M, Simoni M, Casarini L. *LH increases the response to FSH in granulosa-lutein cells from sub/poor-responder patients in vitro*. Hum Reprod. 2023 Jan 5;38(1):103-112. doi: 10.1093/humrep/deac246.
- Brigante G, **Lazzaretti C**, Paradiso E, Nuzzo F, Sitti M, Tüttelmann F, Moretti G, Silvestri R, Gemignani F, Försti A, Hemminki K, Elisei R, Romei C, Zizzi EA, Deriu MA, Simoni M, Landi S, Casarini L. *Genetic signature of differentiated thyroid carcinoma susceptibility: a machine learning approach*. Eur Thyroid J. 2022 Sep 12;11(5):e220058. doi: 10.1530/ETJ-22-0058.
- Casarini L, Paradiso E, **Lazzaretti C**, D'Alessandro S, Roy N, Mascolo E, Zaręba K, García-Gasca A, Simoni M. *Regulation of antral follicular growth by an interplay between gonadotropins and their receptors*. J Assist Reprod Genet. 2022 Apr;39(4):893-904. doi: 10.1007/s10815-022-02456-6.
- 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. 2022 Feb 15;542:111527. doi: 10.1016/j.mce.2021.111527.
- 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 (Lausanne). 2021 Dec 8;12:791763 doi: 10.3389/fendo.2021.791763.
- 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 Dec 4;542:111527. doi: 10.1016/j.mce.2021.111527.

- 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 REPORTS. - ISSN 2452-0144. - 23(2021), pp. 101194-101203. <https://doi.org/10.1016/j.genrep.2021.101194>
- Santi D, Spaggiari G, Greco C, **Lazzaretti C**, Paradiso E, Casarini L, Potì F, Brigante G, Simoni M. *The "Hitchhiker's Guide to the Galaxy" of Endothelial Dysfunction Markers in Human Fertility.* Review Int J Mol Sci. 2021 Mar 4;22(5):2584.doi: 10.3390/ijms22052584.
- Paradiso E, **Lazzaretti C**, Sperduti S, Antoniani F, Fornari G, Brigante G, Di Rocco G, Tagliavini S, Trenti T, Morini D, Falbo A, Villani MT, Nofer JR, Simoni M, Potì 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 Jan 15;520:111082.doi: 10.1016/j.mce.2020.111082. Epub 2020 Nov 12.
- **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 Dec 25;22(1):151.doi: 10.3390/ijms22010151.
- 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 Dec 10;26(12):894-905. doi: 10.1093/molehr/gaaa070
- Casarini L, **Lazzaretti C**, Paradiso E, Limoncella S, Riccetti L, Sperduti S, Melli B, Marcozzi S, Anzivino C, Sayers NS, Czapinski J, Brigante G, Potì 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 Nov 18;23(12):101812.doi: 10.1016/j.isci.2020.101812. eCollection 2020 Dec 18.
- Casarini L, Crépieux P, Reiter E, **Lazzaretti C**, Paradiso E, Rochira V, Brigante G, Santi D, Simoni M. *FSH for the Treatment of Male Infertility.* Int J Mol Sci. 2020 Mar 25;21(7):2270. doi:

10.3390/ijms21072270.

- Sperduti S, Limoncella S, **Lazzaretti C**, Paradiso E, Riccetti L, Turchi S, Ferrigno I, Bertacchini J, Palumbo C, Potì F, Longobardi S, Millar RP, Simoni M, Newton CL, Casarini L. *GnRH Antagonists Produce Differential Modulation of the Signaling Pathways Mediated by GnRH Receptors*. Int J Mol Sci. 2019 Nov 7;20(22). pii: E5548. doi: 10.3390/ijms20225548.
- Riccetti L, Sperduti S, **Lazzaretti C**, Klett D, De Pascali F, Paradiso E, Limoncella S, Potì F, Tagliavini S, Trenti T, Galano E, Palmese A, Satwekar A, Daolio J, Nicoli A, Villani MT, Aguzzoli L, Reiter E, Simoni M, Casarini L. *Glycosylation Pattern and in vitro Bioactivity of Reference Follitropin alfa and Biosimilars*. Front Endocrinol (Lausanne). 2019 Jul 24;10:503. doi: 10.3389/fendo.2019.00503
- **Lazzaretti C**, Riccetti L, Sperduti S, Anzivino C, Brigante G, De Pascali F, Potì F, Rovei V, Restagno G, Mari C, Lussiana C, Benedetto C, Revelli A, Casarini L. *Inferring biallelism of two FSH receptor mutations associated with spontaneous ovarian hyperstimulation syndrome by evaluating FSH, LH and hCG cross-activity*. Reproductive BioMedicine Online. 10.1016/j.rbmo.2018.12.021.
- Casarini L, Riccetti L, Limoncella S, **Lazzaretti C**, Barbagallo F, Pacifico S, Guerrini R, Tagliavini S, Trenti T, Simoni M, Sola M, Di Rocco G. *Probing the effect of sildenafil on Progesterone and Testosterone production by an intracellular FRET/BRET combined approach*. Biochemistry. 2018 Dec 11. doi: 10.1021/acs.biochem.8b01073.
- Brigante G, Riccetti L, **Lazzaretti C**, Rofrano L, Sperduti S, Potì F, Diazi C, Prodám F, Guaraldi G, Lania AG, Rochira V, Casarini L. *Abacavir, nevirapine, and ritonavir modulate intracellular calcium levels without affecting GHRH-mediated growth hormone secretion in somatotropic cells in vitro*. Mol Cell Endocrinol. 2018 Dec 11. pii: S0303-7207(18)30358-7. doi: 10.1016/j.mce.2018.12.005.
- Riccetti L, Sperduti S, **Lazzaretti C**, Casarini L, Simoni M. *The cAMP/PKA pathway: steroidogenesis of the antral follicular stage*. Minerva Ginecol. 2018;70(5):516-524. doi: 10.23736/S0026-4784.18.04282-X.
- Cuoghi I, **Lazzaretti C**, Mandrioli M, Mola L, Pederzoli A. *Immunohistochemical analysis of the distribution of molecules involved in ionic and pH regulation in the lancelet Branchiostoma floridae (Hubbs, 1922)*. Acta Histochem. 2018; 120(1):33-40. doi: 10.1016/j.acthis.2017.10.011.

No peer-reviewed

- Sperduti S, Paradiso E, **Lazzaretti C**, Rochira V, Brigante G, Santi D, Simoni M, Casarini L. *L'ormone luteinizzante e la gonadotropina corionica umana: attività molecolari e cliniche mediate da un unico recettore*. L'Endocrinologo volume 22, pages 201–206 (2021) doi:<https://doi.org/10.1007/s40619-021-00862-z>

Poster presentations

- **Lazzaretti C**, Perri C, Sperduti S, Fusco C, Simoni M, Casarini L. Characterization of follicle-stimulating hormone receptor (FSHR)/g-protein coupled estrogen receptor (GPER) complex trafficking. 5th annual international meeting of the IRN i-GPCRnet, 7th- 9th July 2025, Barcelona, Spain.
- **Lazzaretti C**, Pelagatti G, Perri C, Fusco C, Sperduti S, Simoni M, Casarini L. Luteinizing hormone/choriogonadotropin receptor (LHCGR)/G protein-coupled estrogen receptor (GPER) heteromers do not modulate reproductive signals in male and female gonadal cells. ESPE-ECE Joint Congress, 10th -13th May 2025, Copenhagen, Denmark.
- **Lazzaretti C**, Paradiso E., Sperduti S., Bellei R., D'Alessandro S., Perri C., Baschieri L., Fusco C., Jean-Alphonse F., Reiter E., Lispi M., Simoni M., Hanyaloglu A.C., Casarini L. Luteinizing hormone (LH)- and choriogonadotropin (hCG)-dependent receptor trafficking is required for a ligand-specific signalling. 1st European Ovarian Workshop, 17th – 20th February 2025, Lagos, Portugal.
- **Lazzaretti C.**, Sperduti S., Pelagatti G., Perri C., Fusco C., D'Alessandro S., Simoni M., Hanyaloglu A.C., Casarini L. Luteinizing hormone/human choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers reprogram reproductive signals in vitro. ITGPCR NETWORK. The first Italian Network for GPCR research, 14th February 2025, Bari, Italy.
- **Lazzaretti C.**, Baschieri L., Mascolo E., Sperduti S., Perri C., Fusco C., Simoni M., Casarini L. Rekovelle® vs Gonol-F®: in vitro characterization of intracellular signals induced by the two FSH preparations. ESHRE 40th Annual Meeting, 7th-10th July 2024, Amsterdam, Netherlands.
- **Lazzaretti C.**, Paradiso E., Sperduti S., Perri C., Baschieri L., Fusco C., Hanyaloglu A.C., Simoni M., Casarini L. Luteinizing hormone (LH)- and choriogonadotropin (hCG)-induced internalization of the receptor (LHCGR) leads to ligand-specific signalling. ESE Summer School, 23th-26th June, Innsbruck, Austria.
- **Lazzaretti C.**, Sperduti S., Baschieri L., Cimadomo D., Davolio F., Innocenti F., Albricci L., Rienzi L., Vaiarelli A., Ubaldi F.M., Simoni M., Casarini L. Gene expression pattern predictive of ovarian follicle development and maturation. Forum Nazionale sulla Medicina di Precisione: il modello HEAL ITALIA e il contributo della

Ricerca al Sistema Sanitario del Futuro, 13th-15th June 2024, Palermo, Italy.

- **Lazzaretti C.**, Melli B., Sperduti S., Perri C., Baschieri L., Cusenza V.Y., Martinelli S., Nicoli D., Palicelli A., Mandato D.V., Aguzzoli L., Simoni M., Casarini L. *In silico* and *ex vivo* identification of gonadotropin-related genes involved in ovarian cancer. ECE 2024, 11th-14th May 2024, Stockholm, Sweden.
- Baschieri L., **Lazzaretti C.**, Mascolo E., Perri C., Sperduti S., Fusco C., Simoni M., Casarini L. *In vitro* analysis of FSHR internalization and signalling mediated by two different FSH preparations. ECE 2024, 11th-14th May 2024, Stockholm, Sweden.
- Perri C., Lazzaretti C., Baschieri L., Marchetti L., Sperduti S., Fusco C., Simoni M., Brigante G., Casarini L. hCG-TSHR cross-interaction: a rationale for in hyperemesis gravidarum? ECE 2024, 11th-14th May 2024, Stockholm, Sweden.
- **Lazzaretti C.**, Paradiso E, Sperduti S, Sayers N, Pelagatti G, D'Alessandro S, Perri C, Baschieri L, Mascolo E, Roy N, Simoni M, Hanyaloglu AC, Casarini L. Functional effects of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers *in vitro*. 2nd Meeting of Società Italiana Ricerca Traslazionale E Professioni Sanitarie (S.I.R.T.E.P.S) - Translational research, biotechnology and health care: a wink to the future, 3rd – 4th November 2022, L'Aquila, Italy.
- Paradiso E, **Lazzaretti C.**, Perri C, Mascolo E, Baschieri L, D'Alessandro S, Sperduti S, Roy N, Simoni M, Casarini L. Luteinizing hormone (LH)/human choriogonadotropin (hCG) receptor (LHCGR) internalization is required to modulate LH- and hCG-specific signals. 2nd Meeting of Società Italiana Ricerca Traslazionale E Professioni Sanitarie (S.I.R.T.E.P.S) - Translational research, biotechnology and health care: a wink to the future, 3rd – 4th November 2022, L'Aquila, Italy.
- Sperduti S, Paradiso E, Anzivino C, **Lazzaretti C.**, Limoncella S, D'Alessandro S, Roy N, Melli B, La Sala GB, Nicoli A, Daolio J, Villani MT, Tagliavini S, Trenti T, Potì F, Simoni M, Casarini L. LH increases the response to FSH in granulosa-lutein cells from sub/poor-responder patients *in vitro*. 2nd Meeting of Società Italiana Ricerca Traslazionale E Professioni Sanitarie (S.I.R.T.E.P.S) - Translational research, biotechnology and health care: a wink to the future, 3rd – 4th November 2022, L'Aquila, Italy.
- Perri C, D'Alessandro S, Paradiso E, **Lazzaretti C.**, Mascolo E, Baschieri L, Roy N, Simoni M, Brigante G, Casarini L. Cross-interaction between pituitary glycoprotein hormone and receptors in thyroid cancers. 2nd Meeting of Società Italiana Ricerca Traslazionale E Professioni Sanitarie (S.I.R.T.E.P.S) -

Translational research, biotechnology and health care: a wink to the future, 3rd – 4th November 2022, L'Aquila, Italy.

- Paradiso E, **Lazzaretti C.**, Perri C., Mascolo E., Baschieri L., D'Alessandro S., Sperduti S., Roy N., Simoni M., Casarini L. Luteinizing hormone (LH)/human choriogonadotropin (hCG) receptor (LHCGR) internalization is required to modulate LH- and hCG- specific signals. **45th Symposium on Hormones and Cell Regulation- Sex and Signaling: the molecular basis of sex and gender medicine.** 12-15 October 2022 at Mont Sainte-Odile, France
- **Lazzaretti C.**, Casadei Garofani B, Paradiso E, D'Alessandro S, Sperduti S, Roy N, Mascolo E, Baschieri L, Anzivino C, Simoni M, Casarini L. Analysis of follicle-stimulating hormone receptor (FSHR)/g-protein coupled estrogen receptor (GPER) complex internalization through early and late endosomes. *Endocrine Abstracts* (2022) 81 P455 | DOI: 10.1530/endoabs.81.P455. 24th European congress of Endocrinology 2022 (ECE2022), 21st – 24th May 2022, Milan, Italy.
- Paradiso E, **Lazzaretti C.**, D'Alessandro S, Sperduti S, Roy N, Mascolo E, Baschieri L, Anzivino C, Simoni M, Casarini L. Luteinizing hormone (LH)- and choriogonadotropin (hCG)-induced internalization of the receptor (LHCGR) is responsible for hormone-specific signaling. *Endocrine Abstracts* (2022) 81 OC12.5 | DOI: 10.1530/endoabs.81.OC12.5. 24th European congress of Endocrinology 2022 (ECE2022), 21st – 24th May 2022, Milan, Italy.
- Sperduti S, Roy N, **Lazzaretti C.**, Paradiso E, D'Alessandro S, Mascolo E, Baschieri L, Santi D, Simoni M, Casarini L. The endocrine disruptor Benzo[a]Pyrene inhibits gonadotropin-mediated steroidogenesis in a mouse Leydig tumor cell line. *Endocrine Abstracts* (2022) 81 EP877 | DOI: 10.1530/endoabs.81.EP877. 24th European congress of Endocrinology 2022 (ECE2022), 21st – 24th May 2022, Milan, Italy.
- D'Alessandro S, Paradiso E, **Lazzaretti C.**, Sperduti S, Baschieri L, Mascolo E, Roy N, Anzivino C, Righi S, Santi D, Brigante G, Simoni M, Casarini L. cGMP is not involved in thyroid cancer cell death. *Endocrine Abstracts* (2022) 81 P489 | DOI: 10.1530/endoabs.81.P489. 24th European congress of Endocrinology 2022 (ECE2022), 21st – 24th May 2022, Milan, Italy.
- Paradiso E, **Lazzaretti C.**, Sperduti S, Limoncella S, Melli B, Villani MT, Nicoli A, Daolio J, Lispi M, Orlando G, Simoni M, Casarini L. Granulosa cell signaling-based bioassay in vitro for personalized stimulation in ART: Benefit of LH addition to FSH. P131. *Fertility* 2021 6th – 10th January 2021. Online Congress.
- **Lazzaretti C.**, Melli B, Paradiso E, Sperduti S, Limoncella S, De Carlini S, Sayers N, Anzivino C, D'Alessandro S, Fanelli F, Simoni M,

Hanyaloglu AC, Casarini L. Detection of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers in vitro. 9th GDR-3545-GPCR 2020. Online Congress.

- Paradiso E, **Lazzaretti C**, Sperduti S, Melli B, D'Alessandro S, Cornelio B, Limoncella S, Anzivino C, Simoni M, Casarini L. Luteinizing hormone/choriogonadotropin receptor (LHCGR) mediates different kinetics of G proteins and hormone-specific downstream signaling. 9th GDR-3545-GPCR 2020, e-meeting.
- D'Alessandro S, Paradiso E, **Lazzaretti C**, Melli B, Sperduti S, Anzivino C, Russo E, Santi D, Brigante G, Simoni M, Casarini L. Analysis of cGMP-mediated thyroid cancer cell apoptosis using a caspase 3 BRET biosensor. 9th GDR-3545-GPCR 2020, e-meeting.
- Melli B, Paradiso E, **Lazzaretti C**, D'Alessandro S, Sperduti S, Anzivino C, Tegoni L, Simoni M, Beltràn-Frutos E, Casarini L. Role of protein kinase B (AKT) in steroidogenesis LH/hCG mediated in tumoral murine cell line (mLTC-1). 9th GDR-3545-GPCR 2020, e-meeting.
- **Lazzaretti C**, Secco V, Paradiso E, Sperduti S, Rutz C, Kreuchwig A, Krause G, Simoni M & Casarini L. Aminoacidic residues discriminating human choriogonadotropin (hCG) and luteinizing hormone (LH) binding to the human receptor (LHCGR). Endocrine Abstracts (2020) 70 AEP849 | DOI: 10.1530/endoabs.70.AEP849. 22nd European Congress of Endocrinology 5-9 September 2020, Online Congress.
- Paradiso E, Benevelli R, **Lazzaretti C**, Sperduti S, Brigante G, Simoni M & Casarini L. Luteinizing hormone/choriogonadotropin receptor (LHCGR) mediates different kinetics of G proteins, β -arrestins and cAMP activation. Endocrine Abstracts (2020) 70 AEP781 | DOI: 10.1530/endoabs.70.AEP781. 22nd European Congress of Endocrinology 5-9 September 2020, Online Congress.
- Paradiso E, **Lazzaretti C**, Sperduti S, Limoncella S, Melli B, Villani MT, Nicoli A, Daolio J, Lispi M, Orlando G, Simoni M, Casarini L. Granulosa cell signaling-based bioassay in vitro for personalized stimulation in ART: benefit of LH addition to FSH. ESHRE, 5-8 July 2020. P712.
- Casarini L, **Lazzaretti C**, Paradiso E, Limoncella S, Riccetti L, Sperduti S, Melli B, Marcozzi S, Anzivino C, Sayers S N, Czapinski J, Brigante G, PhD, Potì F, La Marca A, Villani M T, Klinger F G, Fanelli F, Rivero-Müller A, Hanyaloglu A C, Simoni M. Ovarian Follicle Survival Is Determined by Follicle-Stimulating Hormone Receptor (FSHR) and Estrogen Receptor (GPER) Heteromers. Journal of the Endocrine Society, Volume 4, Issue Supplement_1, April-May

2020, OR24-04, <https://doi.org/10.1210/jendso/bvaa046.1823>

- Brigante G, **Lazzaretti C**, Paradiso E, Foersti A, Hemminki K, Elisei R, Romei C, Rochira V, Simoni M, Landi S, Casarini L. Polygenic Susceptibility to Papillary Thyroid Cancer in Italian Subjects. Journal of the Endocrine Society, Volume 4, Issue Supplement_1, April-May 2020, MON-486, <https://doi.org/10.1210/jendso/bvaa046.1207>
- Paradiso E, **Lazzaretti C**, Riccetti L, Sperduti S, Antoniani F, Brigante G, De Feo G, Morini D, Iannotti F, Simoni M, Potì F, Casarini L. S1P induces PI3k-dependent CREB phosphorylation uncoupled to steroidogenesis, in human granulosa cells, LE STUDIUM CONFERENCES, 16-18 October 2019, Tours, France
- **Lazzaretti C**, Paradiso E, Melli B, Limoncella S, Sayers N, Brigante G, Potì F, Valli B, Falbo A, Villani MT, Fanelli F, Simoni M, Hanyaloglu AC, Casarini L. Dominance of ovarian follicles is determined by follicle-stimulating hormone receptor (FSHR) and G protein-coupled estrogen receptor (GPER) heteromers. GPCR Retreat 2019, 26-28 September, Bromont, Canada.
- Casarini L, Sperduti S, Limoncella S, **Lazzaretti C**, Paradiso E, Riccetti L, Bertacchini J, Palumbo C, Millar RP, D'Hooghe T, Longobardi S, Wieser F, Simoni M, Newton CL. Inhibition of GnRH-mediated intracellular signaling in vitro differs according to type of antagonist. ESHRE, 23-26 June 2019, Vienna, Austria
- Paradiso E, **Lazzaretti C**, Riccetti L, Sperduti S, Antoniani F, Brigante G, De Feo G, Morini D, Iannotti F, Simoni M, Potì F, Casarini L. Spingosine-1-phosphate induces cAMP/PKA-independent pCREB activation, but not steroidogenesis, in human granulosa cells. 21st European Congress of Endocrinology 2019, 18-21 May 2019, Lyon, France.
- Casarini L, **Lazzaretti C**, Paradiso E, Riccetti L, Sperduti S, Marcozzi S, Sayers N, Brigante G, Potì F, La Marca A, Valli B, Falbo A, Villani MT, Klingner FG, Fanelli F, Hanyaloglu AC, Simoni M. Dominance of ovarian follicles is determined by follicle-stimulating hormone receptor (FSHR) and G protein-coupled estrogen receptor (GPER) heteromers. 21st European Congress of Endocrinology 2019, 18-21 May 2019, Lyon, France.
- **Lazzaretti C**, Paradiso E, Riccetti L, Sperduti S, Brigante G, Potì F, Fanelli F, Simoni M, Hanyaloglu AC, Casarini L. Demonstration of follicle-stimulating hormone receptor (FSHR) and G protein-coupled estrogen receptor (GPER) heterodimerization by bioluminescence resonance energy transfer (BRET). 21st European Congress of Endocrinology 2019, 18-21 May 2019, Lyon, France.
- Brigante G, **Lazzaretti C**, Paradiso E, Forsti A, Hemminki K, Elisei

R, Romei C, Simoni M, Landi S, Casarini L. Polygenic susceptibility to papillary thyroid cancer: detection of the main genetic signature in Italian patients. 21st European Congress of Endocrinology 2019, 18- 21 May 2019, Lyon, France.

- Casarini L., Riccetti L., Limoncella S., Sperduti S., **Lazzaretti C.**, Barbagallo F., Martinelli I., Sola M., Simoni M., Di Rocco G. A fluorescence sensing approach to study the efficacy in vitro of PDE5i. 10th European Congress of Andrology (ECA). 11th-13th October 2018. Budapest, Hungary.P032 A-0135.
- Riccetti L., Sperduti S., **Lazzaretti C.**, Tagliavini S., Simoni M., Casarini L. Recombinant FSH and biosimilars result in different intracellular signalling. 20th European Congress of Endocrinology. Barcelona, Spain, 19th – 22nd May 2018. Endocrine Abstracts (2018) 56 P942 | DOI: 10.1530/endoabs.56.P942
- Sperduti S., Riccetti L., **Lazzaretti C.**, Simoni M., Casarini L. In vitro characterization and comparison of commercial GnRH antagonists. 20th European Congress of Endocrinology. Barcelona, Spain, 19th – 22nd May 2018. Endocrine Abstracts (2018) 56 P980 | DOI:10.1530/endoabs.56.P980
- Casarini L., Riccetti L., Masini A., **Lazzaretti C.**, Sperduti S., Simoni M. Depletion of the primate-specific luteinizing-hormone receptor variant “exon-6A” impairs LH-, but not hCG-mediated signaling in human primary granulosa cell. 20th European Congress of Endocrinology. Barcelona, Spain, 19th – 22nd May 2018. Endocrine Abstracts (2018) 56 GP220 | DOI: 10.1530/endoabs.56.GP220
- Riccetti L., **Lazzaretti C.**, Gilioli L., Anzivino C., Lussiana C., Mari C., Restagno G., Rovei V., Benedetto C., Simoni M., Revelli A., Casarini L. Functional analysis of novel follicle stimulating hormone-receptor mutations linked to spontaneous ovarian hyperstimulation syndrome. 1st ICGR-GnRH Congress. Modena, Italy, 20th -23rd September 2017

Book chapters

- Casarini L, **Lazzaretti C**, Paradiso E, Santi D, Brigante G, Simoni M. *Evolutionary, structural and physiological differences between hCG and LH*. 100 Year of Human Chorionic Gonadotropin. Edited by Laurence A. Cole, Stephen A. Butler.

Editorial activities

- Co-Guest Editor in the special issue “Gonadotropins and Their Receptors” della rivista Andrology
- Editor per la rivista Andrology
- Reviewer per riviste internazionali:
 - Andrology
 - Journal of Endocrinology
 - Molecular Human reproduction
 - Molecular and Cellular Endocrinology

Congress participation

-Theriogenology

- 5th annual international meeting of the IRN i-GPCRnet, 7th- 9th July 2025, Barcelona, Spain.
- European Society of Endocrinology (ESE) Summer School, 22nd-25th June 2025, Innsbruck, Austria.
- ESPE-ESE Joint Congress, 10th -13th May 2025, Copenhagen, Denmark.
- 1st European Ovarian Workshop, 17th - 20th February 2025, Lagos, Portugal.
- ITGPCR NETWORK. The first Italian Network for GPCR research, 14th February 2025, Bari, Italy.
- 11th meeting of ESE young endocrinologists and scientists (EYES), 6th – 8th September 2024, Helsinki, Finland.
- ESHRE 40th Annual Meeting, 7th-10th July 2024, Amsterdam, Netherlands.
- European Society of Endocrinology (ESE) Summer School, 23th-26th June 2024, Innsbruck, Austria.
- Forum Nazionale sulla Medicina di Precisione: il modello HEAL ITALIA e il contributo della Ricerca al Sistema Sanitario del Futuro, 13th-15th June 2024, Palermo, Italy.
- 26th European congress of Endocrinology ECE 2024, 11th-14th May 2024, Stockholm, Sweden.
- 5th International Conference on Gonadotropins and Receptors (IGCR-V), 12th – 15th March 2024, Tours, France.
- 10th meeting of ESE young endocrinologists and scientists (EYES), 8th – 10th September 2023, Wurzburg, Germany.
- 39th meeting of the European Society of Human Reproduction and Embryology (ESHRE), 25 – 28 June 2023, Copenhagen, Denmark.
- 25th European congress of Endocrinology 2023 (ECE2023), 13 – 16 Maggio 2023, Istanbul, Turkey.
- 2nd Meeting of Società Italiana Ricerca Traslationale E Professioni Sanitarie (S.I.R.T.E.P.S) - TRANSLATIONAL RESEARCH, BIOTECHNOLOGY AND HEALTH CARE: A WINK TO THE FUTURE, 3rd – 4th November 2022, L'Aquila, Italy.
- 45th Symposium on Hormones and Cell Regulation - Sex and

Signaling: the molecular basis of sex and gender medicine. 12th - 15th October 2022, Mont Sainte-Odile, France.

- LE STUDIUM Conference - Gonadotropins in the Physiopathology: Current advances in the Mechanisms of Action, 14th – 15th September 2022, Online Congress.
- 24th European congress of Endocrinology 2022 (ECE2022), 21st – 24th May 2022, Milan, Italy
- CRISPR in Drug Discovery 2021, 23rd -24th March 2021, Online Congress
- 9th GDR-3545-GPCR 2020, 6th-9th November 2020, international e-meeting
- LE STUDIUM Conference - Targeting GPCR to generate life, preserve the environment and improve animal breeding: technological and pharmacological challenges. 16-18 October 2019, Tours, France.
- GPCR Retreat 2019. 26-28 September 2019, Bromont, Canada.
- 21st European congress of Endocrinology 2019 (ECE2019), 18 - 21 May 2019, Lyon, France.
- ICGR-IV Modena 2017- 12th International Symposium on GnRH. Modena, Italy, 20th – 23rd September 2017.

Modena, 30/07/2025
Clara Lazzaretti

