

PERSONAL INFORMATIONS



Sara D'Alessandro

Date of birth: 04/04/1995, Modena

Nationality: Italian

Phone: +39 3317887599

e-mail: sara.dalessandro@unimore.it

PEC: sara_dalessandro@pec.it

Skype: Sara_D'Alessandro

PROFESSIONAL EXPERIENCE

December 1st 2020 to date

PhD Fellow

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

Project: cross-interaction between pituitary glycoprotein hormones and their receptors in thyroid and ovarian cells. Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Prof. Livio Casarini

December 1st 2021 to date

Fellowship

Fellowship for scientific research on "cross-interaction between pituitary glycoprotein hormones and their receptors in thyroid and ovarian cells". Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Prof. Livio Casarini

December 1st 2020-
November 30th 2021

Fellowship

Fellowship for scientific research on "cross-interaction between pituitary glycoprotein hormones and their receptors in thyroid and ovarian cells". Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia via Giuseppe Campi 287, 41125, Modena, IT

Supervisor: Prof. Livio Casarini

June 1st 2020–November
30th 2020

Collaborator

Voluntary attendance for scientific research activities at University Laboratory of Endocrinology – Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia (UNIMORE). Project about the investigation of apoptosis induction mechanisms in thyroid cancer cells, through phosphodiesterase inhibitory substances (**Tutor:** Prof. Livio Casarini).

July 1st 2019–
September 30th 2019

Collaborator

Voluntary attendance for scientific research activities at Section of Human Morphology, Dept. Biomedical, Metabolic and Neural Sciences University of Modena and Reggio Emilia (UNIMORE), supervisor: Professor Jessika Bertacchini. Poster presented at 73° National Congress SIAI, (Napoli, 22-24 September 2019) titled “Mass Spectrometry-based proteomic approach to investigate myokines involved in the crosstalk between bone and muscle” (authors: Amore E., Magarò MS., **D'Alessandro S.**, Maurel D., Bertacchini J.).

EDUCATION

September 2017–December
2019

Master degree in Animal Biotechnology - LM-9 (06 December 2019)

Alma Mater Studiorum – University of Bologna

Assessment: 110/110 cum laude

Thesis title: “Molecular investigation using Multiplex Real Time RT-PCR for the detection of West Nile virus and Usutu virus in mosquito samples collected in Emilia Romagna during the entomological surveillance of 2019”

Supervisor: Dr. Paolo Bonilauri

October 2014–November
2017

Bachelor degree in Zootechnical Sciences and Technologies of Animal Production - SZTPA (Curriculum Equine Technical Sciences – STE) L-38

University of Parma

Thesis title: “Influence of the characteristics of grounds for showjumping on the biomechanics of the horse's foot during the phases of jumping”

2009–2014 High School Diploma

Technical and Biological Institute ITAS F. Selmi - Modena

Mother tongue	Italian				
Other languages	COMPREHENSION		SPOKEN		WRITTEN
	Listening	Reading	Interaction	Speaking	
English	Good	Excellent	Good	Good	Good
Exam: "Cambridge English - ESOL International" Level B2 –First Certificate					

Expertise skills

Technical skills: Nucleic acid extraction and analysis by gel electrophoresis, spectrophotometric assays, PCR; protein extraction, Western blot analysis, Zimography; eukaryotic and prokaryotic cell culture and transfection methods; study of intracellular signaling, BRET/FRET techniques; Proximity ligation assay and immunofluorescence; Fluorescent microscopy; work in sterile conditions; Extraction and manipulation of female gametes of various animal species

Computer skills: Knowledge of Microsoft Office package, software for statistical analysis (GraphPad Prism 6.0), Windows operative system, good use of Mendeley Web Importer

Training for proposals/project management: Training course in European projects and ethical requirements: tools for universities and research institutions

- Titles**
- "Cambridge English - ESOL International" Level B2 –First Certificate
 - Certificate of practical theoretical course of first health intervention-BLS training
 - FAD training certificates - prevention and safety at work (module 1-2-3)
 - COVID-19 training certificates – prevention and DPI
 - Certificate of attendance of Golinelli Foundation about GFP protein cloning and purification and DNA Fingerprinting

Social skills and competences

Good social skills and predisposition for team-working, good organizational skills, self-motivation

- Abroad experience**
- USA (Asheville, North Carolina), Student Exchange, June-August 2011
 - USA (Asheville, North Carolina), Student Exchange, July-August 2010
 - England (Nottingham) – with Victoria Language Center, 2009
 - Sweden - Summer Camp (CISV organization) Summer 2008

Subject expert 2021/2022 in Technical Sciences of laboratory medicine (MED/46)
<https://www.medicina.unimore.it/site/home/didattica/cultori-della-materia/cultori-della-materia-202122.html>

Tutoring Carmela Perri; Master's degree in Medical Biotechnology; Dep. Life sciences (University of Modena and Reggio Emilia). Title: "Role of the membrane estrogen receptor in thyroid cancer cell lines". Year 2022. Supervisor: Prof. Livio Casarini; **Co-rapporteur: Dr. Sara D'Alessandro**; Co-rapporteur: Dr. Clara Lazzaretti.

Congress abstract Amore E., Magarò MS., **D'Alessandro S.**, Maurel D., Bertacchini J. *Mass Spectrometry-based proteomic approach to investigate myokines involved in the crosstalk between bone and muscle*. 2019, IJAE – Italian Journal of Anatomy and Embryology - 73° Congresso Nazionale SIAI, (Napoli, 22-24 Settembre 2019)

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. E-meeting GDR3545 GPCR-2020, November 6 - 9, 2020

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*. E-meeting GDR3545 GPCR-2020, November 6 - 9, 2020

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 A, Casarini L. *Detection of human luteinizing hormone/choriogonadotropin receptor (LHCGR) and G protein-coupled estrogen receptor (GPER) heteromers in vitro*. E-meeting GDR3545 GPCR-2020, November 6 - 9, 2020

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)*. E-meeting GDR3545 GPCR-2020, November 6 - 9, 2020

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*. European Congress of Endocrinology (ECE) 2022, Milan, Italy, 21-24 May 2022

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*. European Congress of Endocrinology (ECE) 2022, Milan, Italy, 21-24 May 2022

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*. European Congress of Endocrinology (ECE) 2022, Milan, Italy, 21-24 May 2022

Grants “ESE Basic Science Meeting Grant 2022” awarded by the European Society of Endocrinology for the contribution to the basic science at the European Congress of Endocrinology (ECE) 2022, 21-24 May 2022, Milan, Italy (400 €) (Attachment 10)

**Scientific society
membership**

-Associazione Scientifica di Endocrinologia, Andrologia e Metabolismo (A.S.E.A.M.)
from 2021

-European Society of Endocrinology (ESE) in 2022; Web site: www.ee-hormones.org

Pubblications

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; doi: 10.1016/j.mce.2021.111527.

Casarini, L.; Paradiso, E.; Lazzaretti, C.; **D'Alessandro, S.**; Roy, N.; Mascolo, E.; Zareba, K.; Garcia-Gasca, A.; Simoni, M. *Regulation of antral follicular growth by an interplay between gonadotropins and their receptors*. J Assist Reprod Genet; 2022 Apr; doi: 10.1007/s10815-022-02456-6.

Roy, N.; Mascolo, E.; Lazzaretti, C.; Paradiso, E.; **D'Alessandro, S.**; Zareba, K.; Simoni, M.; Casarini, L. *Endocrine Disruption of the Follicle-Stimulating Hormone Receptor Signaling During the Human Antral Follicle Growth*. Front Endocrinol; 2021 Dec 8; doi: 10.3389/fendo.2021.791763.

I authorize the processing of personal data in the CV pursuant to Legislative Decree 2018/101 and GDPR (Regulation UE 2016/679).

