

**FLAMINIA FANELLI**  
Medical Biotechnologist, PhD

**CURRICULUM VITAE**

## PERSONAL DATA



DATE OF BIRTH: January, 02<sup>nd</sup> 1983

PLACE OF BIRTH: Manduria (Taranto)

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## APPOINTMENTS

**EDUCATION:** College, Liceo Scientifico G.Galilei, Belluno, Italy  
2001-2006 University of Bologna, Medical Biotechnology, Bologna

### DEGREES:

**September, 2004:** BSc in Biotechnology (110/110 summa cum laude), medical curriculum, Session II, Academic Year 2003/2004. Faculty of Mathematical, Fisical and Natural Sciences, University of Bologna, Italy. Thesis in oncology entitled: "Metodiche per la valutazione del fenomeno apoptotico a confronto". Tutor: Prof. Katia Scotlandi.

**March, 2007:** MSc in Medical Biotechnology (110/110 summa cum laude), Session III, Academic Year 2005/2006. Faculty of Medicine, University of Bologna, Italy. Thesis in endocrinology entitled: "analisi morfologica e molecolare di organi coinvolti nel metabolismo derivati da topi geneticamente privi del recettore di tipo 1 dei cannabinoidi". Tutor: Prof. Uberto Pagotto.

**February, 2008:** Biologist Professional Qualification, University of Bologna, Italy.

**May, 2012:** PhD in Clinical and Experimental Medical Sciences, Session XXIV, School of Life and Health Sciences, University of Verona, Italy. Thesis in endocrinology entitled: "Sviluppo e validazione di metodi di misurazione di ormoni mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS): analisi di popolazioni composte da soggetti sani e affetti da malattie endocrino-metaboliche." Tutor: Prof. Renato Pasquali.

**November, 2020:** National Scientific Qualification, session 2018/2020, area 06/D2.

## PROFESSIONAL EXPERIENCES

- **July 2018 to date:** Junior Researcher at Department of Medical and Surgical Sciences, University of Bologna, via Massarenti 9, 40138 Bologna.
- **August 2016 – July 2018:** Research Fellow for the development of steroid quantitative assays by liquid chromatography – tandem mass spectrometry at the Department of Medical and Surgical Sciences, CRBA, University of Bologna, via Massarenti 9, 40138 Bologna.
- **July 2013 – July 2016:** Principal Investigator for the study "Development and validation of innovative methods for steroid hormone measurement in serum and saliva: applicability of new technologies in the clinical routine" g.a.: PRUa1-2012-004, at the Endocrinology Unit, Dept. of Internal Medicine, CRBA, S.Orsola-Malpighi Hospital, via Albertoni 15, 40138 Bologna.
- **July 2012 – June 2013:** Research Fellow for the study "Genetic and environmental factors of insulin resistance syndrome and its long-term complications in immigrant Mediterranean populations - MEDIGENE", g.a.: FpVII-HEALTH-279171, at the Department of Medical and Surgical Sciences, CRBA, University of Bologna, via Massarenti 9, 40138 Bologna.
- **July 2010 – June 2012:** Research Fellow for the study "Search for new therapeutic agents against complicated obesity by reprofiling existing drugs - REPROBESITY", g.a.: FpVII-HEALTH-223713, at the Department of Medical and Surgical Sciences, CRBA, University of Bologna, via Massarenti 9, 40138 Bologna.
- **March 2008 – September 2010:** Research Fellow for the study "The unifying inflammatory background of the metabolic syndrome: identification of genetic and circulating biomarkers profiling tool for patient classification and clinical assessment-Inflammation biomarkers and the metabolic syndrome", grant agreement (g.a.): PRUa1a-2007-006 at the Endocrinology Unit, Dept. of Internal Medicine, CRBA, S.Orsola-Malpighi Hospital, via Albertoni 15, 40138 Bologna.
- **September 2007 – January 2008:** Research Fellow for the development of steroid quantitative assays by liquid chromatography – tandem mass spectrometry at the Endocrinology Unit, Dept. of Internal Medicine, Center for Applied Biomedical Research (CRBA), S.Orsola-Malpighi Hospital, via Albertoni 15, 40138 Bologna.

## SCIENTIFIC AWARDS

- **Lyon, May 2019:** 18th European Congress of Endocrinology, European Society of Endocrinology Basic Science Meeting Grant for the Poster entitled: "Harmonization status among ten European laboratories using liquid

chromatography-tandem mass spectrometry (LC-MS/MS) for steroid measurements in serum: preliminary results from the HarmoSter consortium”; Endocrine Abstract (2019) P1034.

- **Rome, June 2017:** 39th National Congress – Italian Society of Endocrinology, Best Poster Award for the poster entitled: “2-Arachidonoylglycerol (2AG) relevance as a biomarker of dysmetabolic features in men and women”; Abstract Book PP290.
- **Munich, May 2016:** 18th European Congress of Endocrinology, European Society of Endocrinology Basic Science Meeting Grant for the ePoster entitled: “Sex hormone and steroid precursor measurement by simple and rapid LC-MS/MS: comparison with current routine immunoassays”; Endocrine Abstract (2016) EP658.
- **Taormina, May 2015:** 38th National Congress – Italian Society of Endocrinology, Best Poster Award - silver prize for the poster entitled: “Simple and high-throughput determination of serum steroids by liquid chromatography – tandem mass spectrometry (LC-MS/MS): development and validation of a routine-suited method based on minimal sample pre-treatment”; Abstract Book PD72.
- **Sofia, May 2014:** 21th European Congress on Obesity, European Association for the Study of Obesity Travel Grant for the oral communication entitled: “Circulating endocannabinoids are associated with cardiometabolic parameters in an adiposity-independent fashion in normal weight subjects”; Obesity Facts (2014) T1:OS1.6.
- **Wroclaw, May 2014:** 16th European Congress of Endocrinology, European Society of Endocrinology Meeting Grant for the poster entitled: “Circulating endocannabinoids are associated with cardiometabolic impairment independently of adiposity in normal weight subjects”; Endocrine Abstracts (2014) P757;
- **Copenhagen, May 2013:** 15th European Congress of Endocrinology, European Society of Endocrinology Basic Science Meeting Grant for the poster entitled: “Circulating endocannabinoids are differentially modulated during the oral glucose tolerance test (OGTT)”; Endocrine Abstracts (2013) P756;
- **Florence, May 2012:** 15th International Congress of Endocrinology - 14th European Congress of Endocrinology, European Society of Endocrinology Basic Science Meeting Grant for the oral communication entitled: “Circulating endocannabinoids are associated to cardiometabolic alterations independently from adiposity”; Endocrine Abstracts (2012) 29 OC12.1.
- **Bologna, 2007:** University of Bologna Grant “Premio Studenti Capaci e Meritevoli”. Academic Year 2005/2006.

## RESEARCH GRANTS

- **2021, Partner.** Ministry of Education, University and Research. Projects of Relevant National Interest 2018. Grant agreement 2020ERLB52 for the project entitled: “Highlights on the fate of endogenous and exogenous glucocorticoids by liquid chromatography/mass spectrometry. Untangling the metabolic pathways to predict cardiovascular and immune outcomes”.
- **2019, Partner.** Ministry of Education, University and Research. Projects of Relevant National Interest 2018. Grant agreement 2017HRTZYA\_002 for the project entitled: “The impact of glucocorticoid Circadian rHytm disRuption on cardiOvascular risk and immuNe dysfunction: pathOphysiology and novel bloMArkers of Glucocorticoid Exposure in hypercortisolim and hypocortisolism - CHRONO-IMAGE”.
- **2012, Principal Investigator.** “Alessandro Liberati Programme” grant for Young Investigators, Programma di ricerca Regione-Università 2010-2012 – Regione Emilia-Romagna for the project entitled: “Development and validation of innovative methods for steroid hormone measurement in serum and saliva: applicability of new technologies in the clinical routine”. Grant Agreement PRUA 1-2012-004.

## AFFILIATIONS

Member of the:

- European Society of Endocrinology (ESE) since 2011;
- Italian Society of Endocrinology (SIE) since 2013;
- Biologists, Biotechnologists and Basic Courses board of the SIE since 2014;
- Scientific board of the Mass Spectrometry Advancement in the Clinical Laboratory (MSACL) since 2017.

## ACTIVITY AS REVIEWER FOR INTERNATIONAL PEER – REVIEWED JOURNALS

Acta Histochemica  
Andrology  
Annals of Clinical Biochemistry  
Clinica Chimica Acta  
Clinical Chemistry and Laboratory Medicine  
Clinical Mass Spectrometry  
Eating and Weight Disorders  
Human Reproduction  
International Journal of Adolescent Medicine and Health  
Journal of Chromatography B  
Journal of Clinical Pathology  
Journal of Endocrinological Investigation  
Journal of Pharmaceutical and Biomedical Analysis  
Journal of Steroid Biochemistry & Molecular Biology  
Journal of Visualized Experiments  
LWT - Food Science and Technology  
Steroids

#### ACTIVITY AS REVIEWER EDITOR FOR INTERNATIONAL PEER – REVIEWED JOURNALS

Frontiers in Endocrinology

#### CONTRIBUTIONS AS INVITED SPEAKER IN NATIONAL AND INTERNATIONAL MEETINGS

- **Bologna, December 2020.** Meeting “Innovation in the management of pituitary-adrenal disorders and their comorbidities”, Istituto delle Scienze Neurologiche di Bologna. Talk title: “Tandem mass spectrometry: diagnostic evolution or revolution?”.
- **Napoli, December 2019.** Meeting “Rete Sud Malattie Rare”. Talk title: “Steroid profiling by Liquid Chromatography – Tandem Mass Spectrometry in Non Classical Congenital Adrenal Hyperplasia”.
- **Bern, November 2019.** Meeting “Swiss Steroid Symposium”. Talk title: “Comparability of serum steroid measurements by liquid chromatography-tandem mass spectrometry (LC-MS/MS) among ten European laboratories: the HarmoSter initiative”.
- **Bari, March 2019.** Andrology Laboratory of the Scientific Societies: Ame, Siams, Sipel, Anied. Meeting “Anatomia di un ormone: il testosterone”, Talk entitled: “Il Testosterone nella donna: quali cut off?”.
- **Bologna, October 2018.** School of Endocrinology and Metabolism, University of Bologna. Symposium “Update sulla PCOS: dosaggi ormonali e terapia”. Talk entitled: “Il dosaggio degli steroidi: metodiche tradizionali e spettrometria di massa”.
- **Bologna, May 2018.** SIE Emilia Romagna Meeting “12° up to date - gestione clinica del paziente con tumore ipofisario”. Talk entitled: “Ormoni steroidei mediante cromatografia liquida/spettrometria di massa”.
- **Munich, April 2018.** Analytica Conference 2018. Talk entitled: “Harmonization of LC-MS/MS assays for circulating steroid profiling”.
- **Salzburg, September 2017.** 4th Annual EU Congress and Exhibits, Mass Spectrometry Application to the Clinical Lab. Talk entitled: “A broad liquid chromatography-tandem mass spectrometry (LC-MS/MS) serum profiling revealed a specific steroid pattern in hirsute women with Polycystic Ovary Syndrome”.
- **Bologna, February 2017.** School of Endocrinology and Metabolism, University of Bologna. Meeting *Ipertensione secondaria ed endocrinopatie*. Talk entitled: “Ruolo della spettrometria di massa nella endocrinologia di laboratorio”.
- **Rome, November 2015.** Meeting *Monitoraggio di molecole endogene ed esogene: dal laboratorio alla pratica clinica*. Talk entitled: “Dall'evoluzione analitica all'evoluzione clinica del dosaggio di steroidi: impatto della LC-MS/MS sull'efficacia diagnostica e sulla caratterizzazione delle patologie endocrine”.
- **Milan, April 2015.** School of Endocrinology and Metabolism, University of Milan. Talk entitled: “Advancement in the field of adrenal steroid measurement”.
- **Pisa, April 2014.** 37th Congress of the Italian Society of Endocrinology – XXXI Giornate Endocrinologiche Pisane *Meet the expert*. Talk entitled: “Criticità analitica ed interpretativa dei test endocrini: gli ormoni steroidei”.
- **Padua, June 2012.** School of Clinical and Experimental Medical Sciences, University of Padua. Talk entitled: “Profilo degli steroidi sierici determinato mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS) nella diagnostica degli iperandrogenismi femminili”.

- **Florence, May 2012.** Satellite Symposium at the 35<sup>th</sup> Congress of the Italian Society of Endocrinology *Insights into Italian Endocrinology and Metabolism*. Talk entitled: “Immunometrics vs. Mass Spectrometry”.
- **Venice, November 2011.** Meeting organized by AB SCIEX *Liquid Chromatography – Tandem Mass Spectrometry in Clinical Research*. Talk entitled: “LC-MS/MS for circulating and salivary steroid profiling”.
- **Liege, March 2011.** Meeting organized by AB SCIEX *Tandem mass spectrometry in the clinical research laboratory*. Talk entitled: “A comparison study between liquid chromatography – tandem mass spectrometry and routine immunoassays for steroid measurement in serum: time for reference interval redefinition”.
- **Birmingham, December 2010.** Meeting organized by AB SCIEX *Tandem mass spectrometry in the clinical research laboratory*. Talk entitled: “A comparison study between liquid chromatography – tandem mass spectrometry and routine immunoassays for steroid measurement in serum: time for reference interval redefinition”.
- **Bologna, March 2009.** Workshop by Applied Biosystem *Utilizzo della spettrometria di massa a triplo quadrupolo nella routine di un laboratorio clinico e tossicologico*. Talk entitled: “Dosaggio simultaneo di steroidi sierici di interesse clinico in spettrometria di massa tandem”.

#### CHAIRMAN AT THE INTERNATIONAL MEETINGS

- **Salzburg, September 2019.** 6th Annual EU Congress and Exhibits, Mass Spectrometry Application to the Clinical Lab. Session: Endocrinology.
- **Salzburg, September 2018.** 5th Annual EU Congress and Exhibits, Mass Spectrometry Application to the Clinical Lab. Session: Endocrinology.
- **Salzburg, September 2017.** 4th Annual EU Congress and Exhibits, Mass Spectrometry Application to the Clinical Lab. Session: Vitamin D.

#### SCIENTIFIC ACTIVITIES

Since the beginning of her research activity in the endocrinological analytical chemistry field in 2007, Dr. Flaminia Fanelli developed considerable skills in the development and validation, both at analytical and clinical level, of quantitative assays based on liquid chromatography tandem mass spectrometry (LC-MS/MS). Her researches were carried out at the Center for Applied Biomedical Research, the major lab of the Department of Medical and Surgical Sciences – University of Bologna, where she is in charge of the mass spectrometry facility. Her main fields of interest are steroid hormones, the lipid mediators of the endocannabinoid system and targeted metabolomics, investigated in several biologic fluid such as blood derivatives, saliva, faeces and cell cultures. Dr. Fanelli focused on the development of sex and age specific reference intervals for steroid hormones and endocannabinoids and on major metabolic parameters impacting over them.

She applied her analytical expertise to the study of several endocrine diseases such as female hyperandrogenism, male hypogonadism, adrenal adenomas, 21-hydroxylase deficits, obesity and metabolic syndrome in humans, and contributes to studies involving animal models and cell cultures in collaboration with national and international research groups.

As leader of the analytical division of the Endocrinology Unit, she’s been contributing to conception and management of several analytical and clinical studies funded by non-for-profit foundations (Fondazione Centro Studi sulla Calvizie Cesare Ragazzi Laboratories, 2007; Fondazione del Monte, 2015); by national public grants (Emilia Romagna Region – University Program, PRUa1a-2007-006; Progetti di Ricerca di Interesse Nazionale 2010, g.a. PRIN 2010C8ERKX; PRIN 2017HRTZYA; PRIN 2017ATZ2YK; PRIN 2020ERLB52) as well as by EU grants (REPROBESITY, g.a. FPVII-HEALTH-223713; MEDIGENE, g.a. FPVII-HEALTH-279171; NEUROfast, g.a. n° KBBE-2009-3-245009; MyNewGut FPVII-613979 g.a. n°613979; SPIOMETH4HEALTH g.a. n°899671), developing relevant skills in team organization and multidisciplinary collaborations.

In 2012, Dr. Fanelli was granted by the Programma Regione Emilia Romagna – Università, “Alessandro Liberati” Young Investigator Awards (n°1-2012-004) for the study “Development and validation of innovative methods for steroid hormone measurement in serum and saliva: applicability of new technologies in the clinical routine”.

Dr. Fanelli is one of the major experts in steroid hormone measurements. She conceived and currently leads an international LC-MS/MS harmonization study (HarmoSter study, approved by local ethic committee with protocol number 141/2017/U/Tess; DOI: 10.1515/cclm-2021-1028).

She has several Italian and International collaborations and is part of the Scientific Committee of the MS Advancement in Clinical Lab.

#### PUBLICATIONS AND METRICS

Peer reviewed publications: **64** (total impact factor: 283; mean impact factor: 4.56), of which 11 as first author, 4 as last author.

Chapters in International Books: **2**

According to:

**Scopus** (accessed February 25<sup>th</sup> 2022): total citations: 1357; H-index: 20.

**Web of Science** (accessed March 7<sup>th</sup> 2022): total citations: 1128; H-index: 20.

#### LIST OF PEER REVIEWED PUBLICATIONS

##### IF=impact factor

1. De Vincentis S, Decaroli MC, Fanelli F, Diazzi C, Mezzullo M, Tartaro G, Tagliavini S, De Santis MC, Roli L, Milic J, Trenti T, Pagotto U, Guaraldi G, Rochira V. Primary, secondary and compensated male biochemical hypogonadism in people living with HIV (PLWH): relevance of sex hormone-binding globulin (SHBG) measurement and comparison between liquid chromatography-tandem mass spectrometry (LC-MS/MS) and chemiluminescent immunoassay for sex steroids assay. *Aging Male*. 2022;25:41-53 (doi: 10.1080/13685538.2022.2039116) (IF: 5.892 in 2020).
2. Pelusi C, Bartolomeo N, Lisco G, Baccini M, Fanelli F, De Pergola G, Triggiani V, Pagotto U, Giagulli VA. Overall sexual function in dysmetabolic obese men with low testosterone levels treated with clomiphene citrate. *Endocr Metab Immune Disord Drug Targets*. 2022 (doi: 10.2174/1871530322666220304110958) Epub ahead of print. PMID: 35249510 (IF: 2.895 in 2021).
3. Fanelli F, Cantù M, Temchenko A, Mezzullo M, Lindner JM, Peitzsch M, Hawley JM, Bruce S, Binz PA, Ackermans MT, Heijboer AC, Van den Ouweland J, Koepl D, Nardi E, MacKenzie F, Rauh M, Eisenhofer G, Keevil BG, Vogeser M, Pagotto U. Report from the HarmoSter study: impact of calibration on comparability of LC-MS/MS measurement of circulating cortisol, 17OH-progesterone and aldosterone. *Clin Chem Lab Med*, 2022 (DOI: 10.1515/cclm-2021-1028) Epub ahead of print. PMID: 35172417 (IF: 3.694 in 2021).
4. Pandurevic S, Macut D, Fanelli F, Pagotto U, Gambineri A. Biomediators in Polycystic Ovary Syndrome and Cardiovascular Risk. *Biomolecules*, 2021;11:1350 (DOI: 10.3390/biom11091350) (IF: 4.879 in 2020).
5. Pelusi C, Fanelli F, Baccini M, De Pergola G, Triggiani V, Mezzullo M, Fazzini A, Di Dalmazi G, Petrovic B, Paterini P, Labate AMM, Pagotto U, Giagulli VA. Impact of Clomiphene Citrate on the Steroid Profile in Dysmetabolic Men with Low Testosterone Levels. *Horm Metab Res*, 2021;53:520-528 (DOI: 10.1055/a-1542-8763) (IF: 2.936 in 2020).
6. Baldassarri M, Picchiotti N, Fava F, Fallerini C, Benetti E, Daga S, Valentino F, Doddato G, Furini S, Giliberti A, Tita R, Amitrano S, Bruttini M, Croci S, Meloni I, Pinto AM, Iuso N, Gabbi C, Sciarra F, Venneri MA, Goric M, Sanarico M, Crawley FP, Pagotto U, Fanelli F, Mezzullo M, Dominguez-Garrido E, Planas-Serram L, Schlüterm A, Colobran R, Soler-Palacin P, Lapunzina P, Tenorion J, Pujol A, Castagnat MG, Marcelli M, Isidori AM, Alessandra Renieri A, Frullanti E, Mari F. Shorter androgen receptor polyQ alleles protect against life-threatening COVID-19 disease in European males. *EBioMedicine*, 2021; 65:103246 (DOI: 10.1016/j.ebiom.2021.103246) (IF: 8.143 in 2020).
7. Bersani G, Pacitti F, Iannitelli A, Caroti E, Quartini A, Xenos D, Marconi M, Cuoco V, Bigio B, Bowles NP, Weisz F, Fanelli F, Di Lallo VD, Belluomo I, Nicoletti F, Nasca C. Inverse correlation between plasma 2-arachidonoylglycerol levels and subjective severity of depression. *Hum Psychopharmacol*. 2021; 9:e2779. (DOI: 10.1002/hup.2779) (IF: 2.112 in 2020).
8. Mezzullo M, Gambineri A, Di Dalmazi G, Fazzini A, Magagnoli M, Baccini M, Vicennati V, Pelusi C, Pagotto U, Fanelli F. Steroid reference intervals in women: influence of menopause, age and metabolism. *Eur J Endocrinol* 2021; 184:395-407 (DOI: 10.1530/EJE-20-1147) (IF: 6.664 in 2020).
9. Pandurevic S, Bergamaschi L, Pizzi C, Patton L, Rucci P, Corzani F, Cecchetti C, Pelusi C, Altieri P, Vicennati V, De Dalmazi G, Fanelli F, Macut D, Pagotto U, Gambineri A. Body mass index rather than the phenotype impacts precocious ultrasound cardiovascular risk markers in polycystic ovary syndrome. *Eur J Endocrinol* 2021; 184:199-208 (DOI: 10.1530/EJE-20-0725) (IF: 6.664 in 2020).
10. De Vincentis S, Decaroli MC, Fanelli F, Diazzi C, Mezzullo M, Morini F, Bertani D, Milic J, Carli F, Cuomo G, Santi D, Tartaro G, Tagliavini S, De Santis MC, Roli L, Trenti T, Pagotto U, Guaraldi G, Rochira V. Health status is related to testosterone, estrone and body fat: moving to functional hypogonadism in adult men with HIV. *Eur J Endocrinol* 2021; 184:107-122 (DOI: 10.1530/EJE-20-0855) (IF: 6.664 in 2020).
11. Mularoni V, Esposito V, Di Persio S, Vicini E, Spadetta G, Berloco P, Fanelli F, Mezzullo M, Pagotto U, Pelusi C, Nielsen JE, Rajpert-De Meyts E, Jorgensen N, Jorgensen A, Boitani C. Age-related changes in human Leydig cell status. *Human Reproduction* 2020; 35:2663-2676 (DOI:10.1093/humrep/deaa271) (IF: 6.914).
12. Santi D, Ivell R, Anand-Ivell R, De Toni L, Fanelli F, Mezzullo M, Pelusi C, Pagotto U, Belli S, Granata ARM, Roli L, Rochira V, Trenti T, Ferlin A, Simoni M. Effects of acute hCG stimulation on serum INSL3 and 25-OH vitamin D in Klinefelter syndrome. *Andrology*. 2020; 8:1720-1727 (doi: 10.1111/andr.12851) (IF: 2.860).

13. Di Dalmazi G, Vicennati V, Pizzi C, Mosconi C, Tucci L, Balacchi C, Cosentino ER, Paolisso P, Fanelli F, Gambineri A, Pelusi C, Repaci A, Garelli S, Galiè N, Borghi C, Golfieri R, Pagotto U. Prevalence and Incidence of Atrial Fibrillation in a Large Cohort of Adrenal Incidentalomas: A Long-Term Study. *J Clin Endocrinol Metab.* 2020; 8:1720-1727 (DOI: 10.1210/clinem/dgaa270) (IF: 5.958).
14. Forte D\*, Fanelli F\*, Mezzullo M, Barone M, Corradi G, Auteri G, Bartoletti D, Martello M, Ottaviani E, Terragna C, Curti A, Pagotto U, Palandri F, Cavo M, Catani L. Disease-Specific Derangement of Circulating Endocannabinoids and N-Acylethanolamines in Myeloproliferative Neoplasms. *Int J Mol Sci.* 2020; 21:E3399. (DOI: 10.3390/ijms21093399)(IF: 5.923); \* equally contributed as first author.
15. Oriolo C\*, Fanelli F\*, Castelli S, Mezzullo M, Altieri P, Corzani F, Pelusi C, Repaci A, Di Dalmazi G, Vicennati V, Baldazzi L, Menabò S, Dormi A, Nardi E, Brillanti G, Pasquali R, Pagotto U, Gambineri A. Steroid biomarkers for identifying non-classic adrenal hyperplasia due to 21-hydroxylase deficiency in a population of PCOS with suspicious levels of 17OH-progesterone. *J Endocrinol Invest.* 2020; 43:1499-1509 (DOI: 10.1007/s40618-020-01235-3)(IF: 4.256); \* equally contributed as first author.
16. Gambineri A, Vicennati V, Di Dalmazi G, Pelusi C, Altieri P, Fanelli F, Repaci A, Garelli A, Ribichini D and Pagotto U. In memoriam: Renato Pasquali (1946–2019). *Journal of endocrinological investigation* 43: 269-270 (DOI: org/10.1007/s40618-020-01183-y)
17. Mezzullo M, Di Dalmazi G, Fazzini A, Baccini M, Repaci A, Gambineri A, Vicennati V, Pelusi C, Pagotto U, Fanelli F. Impact of age, body weight and metabolic risk factors on steroid reference intervals in men. *Eur J Endocrinol.* 2020 in press (DOI: 10.1530/EJE-19-0928) (IF: 5.11)
18. Mezzullo M, Pelusi C, Fazzini A, Repaci A, Di Dalmazi G, Gambineri A, Pagotto U, Fanelli F. Female and male serum reference intervals for challenging sex and precursor steroids by liquid chromatography tandem mass spectrometry. *J Steroid Biochem Mol Biol.* 2019 in press. (DOI: 10.1016/j.jsbmb.2019.105538) (IF: 3.79).
19. Pelusi C, Fanelli F, Baccini M, Triggiani V, Bartolomeo N, Carbone MD, De Pergola G, Di Dalmazi G, Pagotto U, Pasquali R, Giagulli VA. Effect of clomiphene citrate treatment on the Sertoli cells of dysmetabolic obese men with low testosterone levels. *Clin Endocrinol (Oxf).* 2019 in press (DOI: 10.1111/cen.14122) (IF: 2.90)
20. Luise D, Bertocchi M, Motta V, Salvarani C, Bosi P, Luppi A, Fanelli F, Mazzoni M, Archetti I, Maiorano G, Nielsen BKK, Trevisi P. Bacillus sp. probiotic supplementation diminish the Escherichia coli F4ac infection in susceptible weaned pigs by influencing the intestinal immune response, intestinal microbiota and blood metabolomics. *J Anim Sci Biotechnol.* 2019;10:74. (doi: 10.1186/s40104-019-0380-3)(IF: 3.441).
21. Di Dalmazi G, Fanelli F, Zavatta G, Ricci Bitti S, Mezzullo M, Repaci A, Pelusi C, Gambineri A, Altieri P, Mosconi C, Balacchi C, Golfieri R, Cosentino ER, Borghi C, Vicennati V, Pasquali R, Pagotto U. The Steroid Profile of Adrenal Incidentalomas: Subtyping Subjects With High Cardiovascular Risk. *J Clin Endocrinol Metab.* 2019; 104:5519-5528. (doi: 10.1210/jc.2019-00365)(IF: 5.605 in 2018).
22. Fanelli F, Di Dalmazi G. Serum steroid profiling by mass spectrometry in adrenocortical tumors: diagnostic implications. *Curr Opin Endocrinol Diabetes Obes.* 2019; 26:160-165. (doi: 10.1097/MED.0000000000000475)(IF 3.279).
23. Luise D, Motta V, Bertocchi M, Salvarani C, Clavenzani P, Fanelli F, Pagotto U, Bosi P, Trevisi P. Effect of Mucine 4 and Fucosyltransferase 1 genetic variants on gut homeostasis of growing healthy pigs. *J Anim Physiol Anim Nutr.* 2019; 103:801-812 (doi: 10.1111/jpn.13063)(IF: 1.607 in 2017).
24. Pelusi C, Altieri P, Gambineri A, Repaci A, Cavazza C, Fanelli F, Morselli-Labate AM, Pagotto U and Pasquali R. Behavioral, socio-environmental, educational and demographic correlates of excess body weight in Italian adolescents and young adults. *Nutrition, Metabolism & Cardiovascular Diseases.* 2019;29:279-289 (DOI: 10.1016/j.numecd.2018.11.009)(IF: 3.34 in 2018).
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#### BOOK CHAPTER

1. Pagotto U, Fanelli F, Granata AR. Hormonal Laboratory Examination. In "Endocrinology of the Testis and Male Reproduction" *Endocrinology* 1. Editors: Simoni M, Huhtaniemi. Springer International Publishing AG 1-23; 2017 (DOI 10.1007/978-3-319-29456-8\_16-1).
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#### TUTORING ACTIVITIES

She co-tutored 16 experimental thesis for MSc students of the:

- Medical Biotechnology Course:
  - Thesis in Endocrinology entitled: "Caratterizzazione del ritmo circadiano dei glucocorticoidi salivari mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS) in soggetti sani e in pazienti affetti da patologie da eccesso o difetto di attività surrenalica" presented by Mario Sebastiani; Tutor: Dr. Flaminia Fanelli; Session III, Academic Year 2019/2020, University of Bologna.
  - Thesis in Endocrinology entitled: "Ruolo degli endocannabinoidi circolanti come biomarcatori di dismetabolismo nelle donne: risultati dello studio di popolazione di Massa Lombarda" presented by Federica Vitarelli; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2016/2017, University of Bologna.
  - Thesis in Endocrinology entitled: "Sviluppo e validazione di un metodo di quantificazione di steroidi sessuali in siero mediante cromatografia liquida abbinata a spettrometria di massa tandem" presented by Alia Forni; Tutor: Prof. Uberto Pagotto; Session IV, Academic Year 2015/2016, University of Bologna.
  - Thesis in Endocrinology entitled: "Sviluppo e validazione di un metodo di dosaggio di ormoni steroidei in siero altamente produttivo con ridotta preparazione del campione: evoluzione della cromatografia liquida-spettrometria di massa tandem (LC-MS/MS) nel campo del laboratorio di routine" presented by Matthew Pedercini; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2013/2014, University of Bologna.
  - Thesis in Endocrinology entitled: "Sviluppo e validazione di un metodo per il dosaggio di cortisolo e cortisone salivare mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS): applicazione in una popolazione giovanile" presented by Alessia Fazzini; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2012/2013, University of Bologna.
  - Thesis in Endocrinology entitled: "Sviluppo di un metodo per il dosaggio di androgeni in saliva mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS)" presented by Elisa Dalla Benetta; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2011/2012, University of Bologna.
  - Thesis in Endocrinology entitled: "Caratterizzazione del profilo secretorio steroideo in pazienti con incidentaloma surrenalico mediante cromatografia liquida accoppiata a spettrometria di massa

- tandem” presented by Marco Mezzullo; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2009/2010, University of Bologna.
- Thesis in Endocrinology entitled: “Dosaggio di endocannabinoidi plasmatici mediante cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS): confronto fra una popolazione normale e una popolazione affetta da obesità” presented by Filippo Betti; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2008/2009, University of Bologna.
  - Thesis in Endocrinology entitled: “Determinazione degli intervalli di riferimento steroidei in una popolazione adulta e in una popolazione giovanile mediante cromatografia liquida abbinata a spettrometria di massa tandem” presented by Fiorenza Stagni; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2008/2009, University of Bologna.
  - Thesis in Endocrinology entitled: “Determinazione di steroidi sierici: comparazione tra un metodo innovativo in spettrometria di massa tandem e metodi immunometrici” presented by Valentina Donati; Tutor: Prof. Uberto Pagotto; Session II, Academic Year 2008/2009, University of Bologna.
  - Thesis in Endocrinology entitled: “Validazione di una metodica per la quantificazione di steroidi in siero umano mediante cromatografia liquida accoppiata a spettrometria di massa tandem” presented by Valentina Diana Di Lallo; Tutor: Prof. Uberto Pagotto; Session III, Academic Year 2007/2008, University of Bologna.
- Biomedical Laboratory Technique Course:
    - Thesis in Endocrinology entitled: “Il dosaggio del cortisolo salivare mediante LC-MS/MS come strumento di valutazione della risposta allo stress in giovani adulte affette o non affette da stati iperandrogenici” presented by Matteo Solaroli; Tutor: Prof. Alessandra Gambineri; Session I, Accademic Year 2015/2016; University of Bologna.
  - School of Medicine:
    - Thesis in Endocrinology and Metabolic Diseases entitled: “Applicazione della LC-MS/MS nella valutazione degli stati di ipercortisolismo mediante test al desametasone: comparazione con le metodiche immunometriche e caratterizzazione del profilo steroideo” presented by Laura Rotolo; Tutor: Prof. Uberto Pagotto; Accademic Year 2019/2020; University of Bologna.
    - Thesis in Endocrinology and Metabolic Diseases entitled: “Validazione del dosaggio dei glucocorticoidi salivari mediante cromatografia liquida - spettrometria di massa tandem nella valutazione dell’asse ipotalamo-ipofisi-surrene in condizioni basali e dinamiche in soggetti sani, obesi o affetti da adenoma surrenalico non secernente o a secrezione subclinica” presented by Enrico Saudelli; Tutor: Prof. Uberto Pagotto; Accademic Year 2018/2019; University of Bologna.
    - Thesis in Endocrinology and Metabolic Diseases entitled: “Studio di comparazione multicentrico europeo: verso l’armonizzazione del dosaggio degli ormoni steroidei circolanti mediante la tecnologia gold-standard cromatografia liquida abbinata a spettrometria di massa tandem (LC-MS/MS)” presented by Anastasia Temchenko; Tutor: Prof. Uberto Pagotto; Session VI, Accademic Year 2017/2018; University of Bologna.
    - Thesis in Endocrinology and Metabolic Diseases entitled: “Il problema della definizione fisiopatologica dell’irsutismo: aspetti tecnici e prospettive future” presented by Giulia Tartaro; Tutor: Prof. Renato Pasquali; Session I, Accademic Year 2015/2016; University of Bologna.

Bologna, April 06th 2022

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