

CURRICULUM VITAE

Cintia E. Citterio, Ph.D.

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EDUCATION

Start date: 09/2009 **Ph.D. in Pharmaceutical Sciences and Biochemistry – Score 10/10; Outstanding**
 Completed on: 03/2014 Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
 Date awarded: 04/2014

Start date: 04/2018 **Certificate in Education**
 Completed on: 12/2019 Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
 Date awarded: 09/2022

Start date: 03/2004 Bachelor of Science Degree in Pharmaceutical Sciences – **Honors Diploma**
 Completed on: 02/2012 Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
 Date awarded: 12/2012

Start date: 03/2004 Bachelor of Science Degree in Biochemistry – **Honors Diploma**
 Completed on: 12/2008 Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
 Date awarded: 05/2009

RESEARCH EXPERIENCE

To Begin Assistant Professor of Biomedical Sciences in the Department of Biomedical and
 Aug. 2023 Pharmaceutical Sciences, School of Pharmacy, Chapman University
 9401 Jeronimo Road, Irvine, CA.

Sept. 2021 - Research Investigator in the Division of Metabolism, Endocrinology & Diabetes, Department
 July 2023 of Internal Medicine, University of Michigan Medical School
 1000 Wall St., Ann Arbor, MI.

Sept. 2021- Adjunct Investigator, INIGEM, National Scientific and Technical Research Council
 Present (CONICET) - University of Buenos, Argentina. (*Unpaid appointment. It does not carry any effort.*)

Mar. 2018 - Research Investigator, INIGEM, National Scientific and Technical Research Council
 Aug. 2021 (CONICET) - University of Buenos, Argentina.

Oct. 2014 - University of Michigan Postdoctoral Research Fellow
 Feb. 2018 Division of Metabolism, Endocrinology & Diabetes, Department of Internal Medicine,
 University of Michigan Medical School, Ann Arbor, MI.

July 2014 - Fulbright Research Scholar
 Sept. 2014 Division of Metabolism, Endocrinology & Diabetes, Department of Internal Medicine,
 University of Michigan Medical School, Ann Arbor, MI.

Apr. 2009 - Research Fellow at the CONICET
 June 2014 Division of Genetics, Faculty of Pharmacy and Biochemistry,
 University of Buenos Aires, Argentina.

Sept. 2012 - Intern for Research at the Institute of Experimental Medicine (IMEX)- CONICET
 Mar. 2013 Laboratory of Molecular Genetics of Hemophilia, National Academy of Medicine, Argentina.

TEACHING EXPERIENCE

- Oct. 2018– Aug. 2021 Teaching Assistant. Division of Genetics, Faculty of Pharmacy and Biochemistry, University of Buenos Aires.
- Courses Taught (30-student courses):
- 1) Molecular Genetics. 120-h course for students in the 4th yr. of Biochemistry (2018, 2019, 2020, 2021)
 - 2) Genetics and Pharmaceutical Genomics. 35-h course for students in the 5th yr. of Pharmacy (2020, 2021)
- Apr. 2014 – June 2014 and Mar. 2018– Sept. 2018 Head of Practical Assignments. Division of Genetics, Faculty of Pharmacy and Biochemistry, University of Buenos Aires.
- Courses Taught (40-student courses):
- 1) Human Molecular Genetics. 120-h course for students in the 6th yr. of Biochemistry
 - 2) Forensic Genetics. 80-h course for students in the 4th yr. of Biochemistry
 - 3) Molecular Genetics. 80-h course for students in the 4th yr. of Biochemistry
- 2010 - 2013 Instructor Responsible for the Class of Genetics and Molecular Biology for Master's Degree Students.
- Courses Taught (20-student courses):
- 1) Medical Molecular Genetics and Cytogenetics. Master Module in Medical Molecular Biology. Division of Genetics, Faculty of Pharmacy and Biochemistry, University of Buenos Aires. Eight 3-h lectures (2011-2013)
 - 2) Module of Molecular Biology. Module for Physicians. "Hospital de Clínicas José de San Martín", Faculty of Medicine, University of Buenos Aires. Three 3-h classes (2010)
- 2009 – Mar. 2014 Teaching Assistant. Division of Genetics, Faculty of Pharmacy and Biochemistry, University of Buenos Aires.
- Courses Taught (40-student courses):
- 1) Human Molecular Genetics. 120-h course for students in the 6th yr. of Biochemistry (2013)
 - 2) Forensic Genetics. 80-h course for students in the 4th yr. of Biochemistry (2011-2013)
 - 3) Molecular Genetics. 80-h course for students in the 4th yr. of Biochemistry (2010-2013)
 - 4) Elements of Genetics and Molecular Biology. 130-h course for students in the 4th yr. of Biochemistry (2009-2010)
 - 5) Genetics and Molecular Biology. 130-h course for students in the 6th yr. of Biochemistry (2009-2010)

HONORS AND AWARDS

- 2023 **Outstanding Abstract Award.** ENDO 2023, Chicago, IL. Awarded by the Endocrine Society in June 2023.
- 2022 **Excellence in Endocrinology.** Awarded by the Committee on Diversity and Inclusion (CODI) from the Endocrine Society.
- 2022 **Outstanding Abstract Award.** ENDO 2022, Atlanta, GA. Awarded by the Endocrine Society.
- 2020 **Young Investigator Award (1st Place).** Awarded by the Argentine Society of Clinical Research (SAIC) and the Bigand Foundation, Argentina.
- 2017 **Trainee Poster Contest Award (1st Place). Highlighted Poster and Oral Presentation.** 2017 E. Chester Ridgway Trainee Conference and 87th Annual Meeting of the American Thyroid Association, Victoria, B.C., Canada. Awarded by the American Thyroid Association.

- 2014 **Fulbright Scholarship Program.** Awarded by Fulbright Commission in Argentina and The Ministry of Education of the Argentine Republic. Certified by The F. William Fulbright Foreign Scholarship Board and The Bureau of Educational and Cultural Affairs of the United States Department of State.
- 2014 Outreach Lecturing Fund (OLF). Awarded by Fulbright Scholar Program, Council for International Exchange of Scholars (CIES), Institute of International Education (IIE), U.S.

CURRENT AND RECENTLY COMPLETED RESEARCH GRANTS

1) NIH-K01 Award. Reference code: K01 DK125448. Role: Principal Investigator. Title: The Role of Thyroglobulin in Thyroid Hormone Synthesis. Awarded by the National Institutes of Health (NIH) – National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). NIH-K01 Award Project Period: 01/19/2022-Present.

2) UROP Supplementary Research Funding. Reference code: C139344. Role: Principal Investigator. Awarded by: University of Michigan College of Literature, Science, and the Arts, to cover partial expenses of my UROP trainee working in my research program. Period: 2022.

EDITORIAL POSITIONS, BOARDS, AND PEER-REVIEW SERVICE

- 04/2023 Ad-hoc Reviewer. Journal: Cancers, MPDI, Basel, Switzerland
- 03/2023- **NIH Early Career Reviewer at the Center for Scientific Review (CSR), National Institutes of Health.**
- 03/2023- Ad-hoc Reviewer. Endocrinology, Endocrine Society, 00137227, 19457170
- 08/2022– **Review Editor on the Editorial Board of Pediatric Endocrinology, Frontiers in Endocrinology and Frontiers in Pediatrics, Switzerland.**
- 05/2022 Ad-hoc Reviewer. Abstracts for the 2022 American Thyroid Association Annual Meeting
- 2022– Ad-hoc Reviewer. Journal of Molecular Endocrinology, Bioscientifica on behalf of the Society for Endocrinology, Print ISSN: 0952-5041
- 2022– Ad-hoc Reviewer. Journal of Personalized Medicine, MDPI, Basel, Switzerland
- 2021– **Ad-hoc Reviewer. Nature Communications, Springer Nature.**
- 2021– Ad-hoc Reviewer. Frontiers in Endocrinology, Frontiers Media S.A.
- 2020–2021 **Guest Associate Editor, Thyroid Endocrinology, Frontiers in Endocrinology, Switzerland.** Research topic “Inborn Errors of Synthesis and Sensitivity to Thyroid Hormone”.
- 2020– Ad-hoc Reviewer. European Endocrinology, Touch Medical Media.
- 2019 Ad-hoc Reviewer. European Journal of Clinical Investigation, John Wiley & Sons, Inc.
- 2019 Ad-hoc Reviewer. Biochimie, Elsevier.
- 2018 **Member of the Board of Directors of the Argentine Society of Clinical Research (SAIC), Argentina.**
- 2018 Ad-hoc Reviewer. Journal of Cellular Physiology, John Wiley & Sons, Inc.
-Manuscript ID JCP-18-1539 "Riboflavin deficiency impairs apolipoprotein B100 synthesis and maturation, leading to altered cholesterol homeostasis in HepG2 cells".
- 2018– **Ad-hoc Reviewer. Thyroid. Mary Ann Liebert, Inc.**

2016 Invited Reviewer. *Molecular and Cellular Endocrinology*. Elsevier.

RESEARCH TRAINEES MENTORED

- Dec. 2022 – Present Role: Co-Mentor. Visiting Scholar Ibrahim Metaweia, MB BCh. Division of Metabolism, Endocrinology & Diabetes, Department of Internal Medicine, University of Michigan Medical School. Mentor: P. Arvan.
- Sept. 2022 – Present Role: Mentor. Student: Kevin Pena. Undergraduate Research Opportunity Program (UROP), University of Michigan. Project: CRISPR/Cas9-Edited Mouse Model of Deficient Thyroxine Production: Genotype Characterization.
- Apr. 2022 – Present Role: Mentor. Student: Bhavana Rajesh, currently in **Neuroscience Honors Program** (and previously in the Independent Study Program), University of Michigan Medical School. Title of the Honors Thesis: Thyroid Hormone Formation and Disease Model.
- Aug. 2020 – Aug. 2021 Role: Advisor. Intern for Research: Biochemist Cinthia Belén Fijalkowky. Faculty of Pharmacy and Biochemistry, University of Buenos Aires. Argentina. Topic of research: Triiodothyronine Formation in Congenital Hypothyroidism.
- July 2020 – June 2021 Role: Advisor. Intern for Research: Carolina Iglesias. Faculty of Exact and Natural Sciences, University of Buenos Aires. Argentina. Topic of research: Cystinosine Deficient Thyrocyte Cell Model.
- Apr. 2018 – Dec. 2020 Role: Advisor. Graduate Degree in Biology, Candidate: Carolina María Ibanez Padilla. Faculty of Exact and Natural Sciences, University of Buenos Aires. Argentina. Thesis: Role of Fam20C in the T₃ Toxicosis of Graves' Disease. **Score: 10/10 (maximum score).**
- Apr. 2018 – Sept. 2019 Role: Advisor. Graduate Degree in Genetics, Candidate: Ezequiel S. Arévalos. Faculty of Exact, Chemical and Natural Sciences, University of Misiones, Argentina. Thesis: Triiodothyronine (T₃) Formation Within Thyroglobulin in the T₃ Toxicosis of Graves' Disease. **Score: 10/10 (maximum score).**
- 2017 – Feb. 2018 Role: Co-mentor. Student: Nada Dakka, Undergraduate Research Opportunity Program (UROP), University of Michigan. Project: Thyroglobulin Mutations Responsible for Congenital Hypothyroidism Without Goiter. PI: P. Arvan.
- 2015 - 2017 Role: Co-mentor. Student: Balaji Veluswamy. Independent Study Program at the University of Michigan. Project: Generation of Tyrosine to Phenylalanine Thyroglobulin Mutants in the Target Residues for Active Thyroid Hormone (T₃) Synthesis in the Context of the Study of Primary Sites of T₃ Formation. PI: P. Arvan.

COMMITTEE SERVICE, AND OTHER PROFESSIONAL ACTIVITIES

- 06/2023 Invited Mentor at the Minority Mentoring and Poster Reception “Table Topics” at the ENDO Conference 2023 in Chicago, IL. Event organized by the **ENDO Committee on Diversity and Inclusion, Endocrine Society**.
- 10/2022 **Co-chair of the Oral Abstract Session**, 2022 American Thyroid Association Annual Meeting, held in October 2022 in Montreal, Canada
- 06/2022 Invited Mentor at the Minority Mentoring and Poster Reception “Table Topics” at the ENDO Conference 2022 in Atlanta, GA. Event organized by the **ENDO Committee on Diversity and Inclusion, Endocrine Society**.

- 2021– Present **Member of the American Thyroid Association Publications Committee, U.S.**
- 10/2021 **Chair of the Highlighted Poster Session, 90th Annual Meeting of the American Thyroid Association, U.S.**
- 2018 - 2021 **Member of the American Thyroid Association (ATA) Research Committee, U.S.**

PUBLICATIONS

- 1) C. E. Bernal Barquero, R. C. Geysels, V. Jacques, G. H. Carro, M. Martín, V. Peyret, M. C. Abregú, P. Papendieck, A. M. Masini-Repiso, F. Savagner, A. E. Chiesa, **C. E. Citterio**, J. P. Nicola. Targeted Next-Generation Sequencing of Congenital Hypothyroidism-causative Genes Reveals Unexpected Thyroglobulin Gene Variants in Patients with Iodide Transport Defect. *International Journal of Molecular Sciences, MDPI* 2022, 23(16), 9251; <https://doi.org/10.3390/ijms23169251>. **Impact Factor: 6.208. Link: <https://pubmed.ncbi.nlm.nih.gov/36012511/>**
- 2) **C. E. Citterio**, C. M Rivolta, H. M. Targovnik (2021). Structure and Genetic Variants of Thyroglobulin: Pathophysiological Implications. *Mol Cell Endocrinol.* 2021 Mar 6;528:111227. doi: 10.1016/j.mce.2021.111227. Link: <https://pubmed.ncbi.nlm.nih.gov/33689781/>
- 3) X. Zhang, A. P. Kellogg, **C. E. Citterio**, H. Zhang, D. Larkin, Y. Morishita, H. M. Targovnik, V. Balbi, and P. Arvan. Thyroid hormone synthesis continues despite biallelic thyroglobulin mutation with cell death. *JCI Insight.* 2021 Apr 29;148496. doi: 10.1172/jci.insight.148496. **Impact factor: 6.205. Link: <https://pubmed.ncbi.nlm.nih.gov/33914707/>**
- 4) Zhou W, Brumpton B, Kabil O, Gudmundsson J, Thorleifsson G, Weinstock J, Zawistowski M, Nielsen JB, Chaker L, Medici M, Teumer A, Naitza S, Sanna S, Schultheiss UT, Cappola A, Karjalainen J, Kurki M, Oneka M, Taylor P, Fritsche LG, Graham SE, Wolford BN, Overton W, Rasheed H, Haug EB, Gabrielsen ME, Heidi Skogholt AH, Surakka I, Davey Smith G, Pandit A, Roychowdhury T, Hornsby WE, Jonasson JG, Senter L, Liyanarachchi S, Ringel MD, Xu L, Kiemeny LA, He H, Netea-Maier RT, Mayordomo JI, Plantinga TS, Hrafinkelsson J, Hjartarson H, Sturgis EM, Palotie A, Daly M, **C. E. Citterio**, Arvan P, Brummett CM, Boehnke M, de la Chapelle A, Stefansson K, Hveem K, Willer CJ, Åsvold BO (2020). GWAS of Thyroid Stimulating Hormone Highlights Pleiotropic Effects and Inverse Association with Thyroid Cancer. *Nature Communications.* 2020 Aug 7; 11(1):3981. **Impact factor: 12.121. Link: <https://pubmed.ncbi.nlm.nih.gov/32769997/>**
- 5) **C. E. Citterio**, S. Siffo, C. M. Moya, M. Gomes Pró, M. F. Molina, K. G. Scheps, O. A. Rey, P. Arvan, C. M. Rivolta and H. M. Targovnik (2020). p.L571P in the linker domain of rat thyroglobulin causes intracellular retention. *Mol Cell Endocrinol.* 2020 Apr 5;505:110719. Link: <https://pubmed.ncbi.nlm.nih.gov/31972331/>
- 6) **C. E. Citterio**, H. M. Targovnik, and P. Arvan (2019). The Role of Thyroglobulin in Thyroid Hormonogenesis. *Nature Reviews Endocrinology.* Jun;15(6):323-338. **Impact factor: 43.330. Link: <https://pubmed.ncbi.nlm.nih.gov/30886364/>**
- 7) **C. E. Citterio**, Y. Morishita, N. Dakka, B. Veluswamy, and P. Arvan (2018). Relationship Between the Dimerization of Thyroglobulin and its Ability to Form Triiodothyronine. *J Biol Chem.* 293 (13) 4860-4869. **Impact factor: 5.157. Link: <https://pubmed.ncbi.nlm.nih.gov/29440273/>**
- 8) S. Siffo, E. Adrover, **C. E. Citterio**, M. B. Miras, V. A. Balbi, A. Chiesa, J. Weill, G. Sobrero, V. G. González, P. Papendieck, E. Bueno Martinez, R. Gonzalez-Sarmiento, C. M. Rivolta and H. M. Targovnik (2018). Molecular Analysis of Thyroglobulin Mutations Found in Patients with Goiter and Hypothyroidism. *Mol Cell Endocrinol.* 473:1-16. Link: <https://pubmed.ncbi.nlm.nih.gov/29275168/>
- 9) **C. E. Citterio**, B. Veluswamy, S. J. Morgan, V. A. Galton, J. P. Banga, S. Atkins, Y. Morishita, S. Neumann, R. Latif, M. C. Gershengorn, T. J. Smith, and P. Arvan (2017). *De Novo* Triiodothyronine Formation

from Thyrocytes Activated by Thyroid-Stimulating Hormone. *J Biol Chem.* 292 (37) 15434–15444. **Impact factor: 5.157. Link: <https://pubmed.ncbi.nlm.nih.gov/28743746/>**

10) H. M. Targovnik, **C. E. Citterio** and C. M. Rivolta (2017). Iodide Handling Disorders (NIS, TPO, TG, IYD). *Best Pract Res Clin Endocrinol Metab.* (31) 195-212. Link: <https://pubmed.ncbi.nlm.nih.gov/28648508/>

11) H. M. Targovnik, **C. E. Citterio**, S. Siffo and C. M. Rivolta. (2016). Advances and Perspectives in Genetics of Congenital Thyroid Disorders. *J Clin Mol Endocrinol.* 1(3: 23) 1-3. Link: <https://clinical-and-molecular-endocrinology.imedpub.com/advances-and-perspectives-in-genetics-of-congenital-thyroid-disorders.php?aid=17572>

12) H. M. Targovnik, **C. E. Citterio**, S. Siffo and C. M. Rivolta (2016). Advances and Perspectives in Genetics of Congenital Thyroid Disorders Associated with Thyroglobulin Gene Mutations. *Peertechz J Biol Res Dev.* 1(1):062-070. Link: <https://www.peertechzpublications.com/articles/OJBS-1-106.php>

13) F. S. Belforte, **C. E. Citterio**, G. Testa, M. C. Olcese, G. Sobrero, M. B. Miras, H. M. Targovnik, C. M. Rivolta (2016). Compound Heterozygous DUOX2 Gene Mutations (c.2335-1G>C/c.3264-3267delCAGC) Associated with Congenital Hypothyroidism. Characterization of Complex Cryptic Splice Sites by Minigene Analysis. *Mol Cell Endocrinol.* 419:172-184. Link: <https://pubmed.ncbi.nlm.nih.gov/26506010/>

14) F. S Belforte, A. M Targovnik, R. M González-Lebrero, C. Osorio Larroche, **C. E Citterio**, Rogelio González-Sarmiento, M. V Miranda, H. M Targovnik and C. M. Rivolta (2015). Kinetic characterization of human thyroperoxidase. Normal and pathological enzyme expression in Baculovirus System: A molecular model of functional expression. *Mol Cell Endocrinol.* 404: 9–15. Link: <https://pubmed.ncbi.nlm.nih.gov/25576858/>

15) **C. E. Citterio**, C. M. Morales, N. Bouhours-Nouet, G. A. Machiavelli, E. Bueno, F. Gatelais, R. Countant, R. González-Sarmiento, C. M. Rivolta and H. M. Targovnik (2015). Novel Compound Heterozygous Thyroglobulin Mutations (c.745+1G>A/c.7036+2T>A) Associated with Congenital Goiter and Hypothyroidism in a Vietnamese Family. Identification a New Cryptic 5' Splice Site in the Exon 6. *Mol Cell Endocrinol.* 404: 102–112. Link: <https://pubmed.ncbi.nlm.nih.gov/25633667/>

16) **C. E. Citterio**, L. C. Rossetti, P. F. Souchon, C. Morales, M. Thouvard-Viprey, A. S. Salmon-Musial, P. L. A. Mauran, M. Doco-Fenzy, R. González-Sarmiento, C. M. Rivolta, C. D. De Brasi and H. M. Targovnik (2013). Novel Mutational Mechanism in the Thyroglobulin Gene: Imperfect DNA Inversion as a Cause for Hereditary Hypothyroidism. *Mol Cell Endocrinol.* 381(1-2): 220-229. Link: <https://pubmed.ncbi.nlm.nih.gov/23933148/>

17) **C. E. Citterio**, G. A. Machiavelli, M. B. Miras, L. Gruñeiro-Papendieck, K. Lachlan, G. Sobrero, A. Chiesa, J. Walker, L. Muñoz, G. Testa, F. S. Belforte, R. González-Sarmiento, C. M. Rivolta and H. M. Targovnik (2013). New Insights into Thyroglobulin Gene: Molecular Analysis of Seven Novel Mutations Associated with Goiter and Hypothyroidism. *Mol Cell Endocrinol.* 365: 277–291. Link: <https://pubmed.ncbi.nlm.nih.gov/23164529/>

18) H. M. Targovnik, T. Edouard, V. Varela, M. Tauber, **C. E. Citterio**, R. González-Sarmiento and C. M. Rivolta (2012). Two Novel Mutations in the Thyroglobulin Gene as Cause of Congenital Hypothyroidism: Identification a Cryptic Donor Splice Site in the Exon 19. *Mol Cell Endocrinol.* 348: 313-321. Link: <https://pubmed.ncbi.nlm.nih.gov/21958696/>

19) H. M. Targovnik, **C. E. Citterio**, C. M. Rivolta (2011). Thyroglobulin Gene Mutations in Congenital Hypothyroidism. *Horm Res Paediatr.* 75: 311-321. Link: <https://pubmed.ncbi.nlm.nih.gov/21372558/>

20) **C. E. Citterio**, R. Coutant, S. Rouleau, J. M. Miralles García, R. González-Sarmiento, C. M. Rivolta and H. M. Targovnik (2011). A New Compound Heterozygous for c.886C>T/c.2206C>T [p.R277X/p.Q717X] Mutations in the Thyroglobulin Gene as a Cause of Foetal Goitrous Hypothyroidism. *Clin Endocrinol* 74: 533-535. Link: <https://pubmed.ncbi.nlm.nih.gov/21128992/>

21) M. C. Olcese*, F. S. Belforte*, **C. E. Citterio***, H. M. Targovnik and C. M. Rivolta. **M.C.O, F.S.B and C.E.C contributed equally* (2011). Structures of NIS, TPO, Thyroglobulin, H₂O₂-Generating Enzymes, Pendrin and TSH Receptor. *Argentine Treaty of Thyroid*. Montpellier. Part 1: Normal Thyroid; Section III: Molecular Biology of the Thyroid and Thyroid Hormones; Chapter 8.

22) M. C. Olcese, **C. E. Citterio**, F. S. Belforte, H. M. Targovnik and C. M. Rivolta (2011). Molecular Basis of Congenital Errors of Thyroid Hormonogenesis. *Argentine Treaty of Thyroid*. Montpellier. Part 4: Hypothyroidism; Section II: Causes of Hypothyroidism; Chapter 38.

23) **C. E. Citterio** (corresponding author) and Héctor M. Targovnik Reserved Professional Activities in Argentina: Origins and Current Situation (2021). *Revista de Educación* (ISSN 1853-1318 / online 1853-1326) Issue No. 22 - Year XII., 209-217. https://fh.mdpu.edu.ar/revistas/index.php/r_educ/issue/view/236/showToc

MANUSCRIPT UNDER REVISION

24) **C. E. Citterio** (corresponding author), K. Kim, B. Rajesh, K. Pena, O. B. Clarke, P. Arvan (corresponding author). Structural Features of Thyroglobulin Linked to Protein Trafficking. *Protein Science*. June 2023. Manuscript IDPRO-23-0230.

Link to publication totals: <https://www.ncbi.nlm.nih.gov/myncbi/cintia.citterio.1/bibliography/public/>

PUBLISHED ABSTRACTS AND PRESENTATIONS AT SCIENTIFIC MEETINGS

1) Contact Between Thyroglobulin Opposite Domains Assists its Upstream Regions in Intracellular Trafficking for Thyroid Hormonogenesis. **C. E. Citterio**, K. Kim, B. Rajesh, K. Pena, O. B. Clarke, P. Arvan. Type of Presentation: Oral Presentation at the ENDO Conference 2023, Chicago, IL, to be held June 15-18, 2023. Abstract to accepted for publication in the Journal of the Endocrine Society. **Outstanding Abstract Award.**

2) Exploring the Contact Between Domains of the Thyroid Hormone Precursor Protein Required in its Intracellular Trafficking. **C. E. Citterio**, K. Kim, B. Rajesh, K. Pena, O. B. Clarke, P. Arvan. Type of Presentation: Poster Presentation at the UROP and MRADS Symposium, University of Michigan, April 19, 2023.

3) Intracellular Protein Trafficking of the Thyroid Hormone Precursor for Thyroid Hormonogenesis. **C. E. Citterio**, K. Kim, B. Rajesh, O. B. Clarke, P. Arvan. Type of Presentation: Poster Presentation at the Research Track Faculty Symposium, University of Michigan Medical School, March 23, 2023.

4) Expression of Fam20C Serine Kinase in the Thyroids of Patients with Graves' Disease. **C. E. Citterio**, C. B. Fijalkowky, A. Gauna, P. Arvan. Type of Presentation: Late Breaking Poster at the 2022 American Thyroid Association Annual Meeting, October 19-23, 2022 in Montreal, Canada. Published abstract: *Thyroid*. Vol 32, Sup 1, 2022, A-164. DOI: 10.1089/thy.2022.29140.lb.abstracts.

5) Thyroglobulin Structural Requirements in Protein Trafficking for Thyroid Hormonogenesis. **C. E. Citterio**, K. Kim, B. Rajesh, O. B. Clarke, P. Arvan. Type of Presentation: Oral Presentation at the ENDO Conference 2022, Atlanta, GA, June 11-14, 2022. Published abstract: Journal of the Endocrine Society, Volume 6, Issue Supplement_1, November-December 2022, Page A798, <https://doi.org/10.1210/jendso/bvac150.1651>. **Winner of the Outstanding Abstract Award.**

6) Structural Requirements of the Thyroid Hormone Precursor Protein for its Intracellular Trafficking. **C. E. Citterio**, K. Kim, B. Rajesh, O. B. Clarke, P. Arvan. Type of Presentation: Poster at the Virtual Poster Session of the 30th Annual Department of Internal Medicine Research Symposium, University of Michigan Medical School, May 5-6, 2022.

7) The Role of Cysteine in Thyroglobulin Biosynthesis. **C. E. Citterio**, C. Fijalkowky, P. Arvan. Type of Presentation: Late Breaking Poster at the 90th Annual Meeting of the American Thyroid Association (ATA)

held virtually in 2021. Published abstract: *Thyroid* Vol 31, Sup 1, October 2021, A-135 – A-36. DOI: 10.1089/thy.2021.29118.lb.abstracts

- 8) The impact of cysteine on the protein folding and export of the thyroid hormone precursor. **C. E. Citterio**, C. Fijalkowky, P. Arvan. Type of Presentation: Poster at the Protein Folding Diseases Initiative Young Investigators Meeting. October 2021. The University of Michigan Young Investigators Meeting Abstracts, page 15.
- 9) Novel Molecular Mechanism of De Novo Triiodothyronine (T₃) Formation Induced by Fam20C in Stimulated Thyrocytes. C. Iglesias, A. T. Gauna, P. Arvan, H. M. Targovnik, **C. E. Citterio**. **Winner of the Young Investigator Award, awarded to C. E. Citterio.** Type of Presentation: e-poster and virtual oral presentation at the Annual Meeting of the Biosciences Societies, Argentine Society of Clinical Research-SAISAFIS 2020, International Conference held virtually in 2020. Published abstract: *Medicina (Buenos Aires)* 80 (V), 39, 2020.
- 10) Thyroid hormone synthesis continues despite homozygous thyroglobulin mutation with cell death. X. Zhang, A. P. Kellogg, **C. E. Citterio**, H. Zhang, D. Larkin, Y. Morishita, H. M. Targovnik, V. Balbi, and P. Arvan. Type of Presentation: e-poster at the 7th Annual Protein Folding Diseases Initiative Symposium, University of Michigan Medical School, held virtually in 2020.
- 11) Novel site of de novo triiodothyronine (T₃) formation in thyroglobulin secreted from stimulated thyrocytes. **C. E. Citterio**, C. M. Ibáñez Padilla, M. Torres, P. Arvan. Type of Presentation: Poster at the “89th Annual Meeting of the American Thyroid Association (ATA)” Chicago, IL, U.S., 2019. Published abstract: *Thyroid*. October 2019, 29 (S1): A-158. DOI: 10.1089/thy.2019.29085.abstracts
- 12) Molecular mechanisms underlying increased de novo triiodothyronine formation within thyroglobulin in hyperstimulated thyrocytes. C. Ibañez Padilla, E. S. Arévalos, P. Arvan, H. Targovnik, **C. E. Citterio**. Type of Presentation: Poster at the “LXIII Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2018. Published abstract: *Medicina (Buenos Aires)* 78 (III), 162, 2018.
- 13) Three families with hypothyroidism and monoallelic thyroglobulin mutation analyzed by next generation sequencing (NGS). S. Siffo, M. Gomes Pio, E. Adrover, M. Molina, K. Scheps, **C. E. Citterio**, E. Bueno Martínez, R. Gonzalez Sarmiento, C. Rivolta, H. M. Targovnik. Type of Presentation: Poster at the “LXIII Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2018. Published abstract: *Medicina (Buenos Aires)* 78 (III), 225, 2018.
- 14) Systematic analysis of thyroglobulin mutations found in patients with hypothyroidism and in the genome aggregation database. M. Gomes Pio, S. Siffo, E. Adrover, M. Molina, K. Scheps, **C. E. Citterio**, C. Rivolta, H. M. Targovnik. Type of Presentation: Poster at the “LXIII Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2018. Published abstract: *Medicina (Buenos Aires)* 78 (III), 225, 2018.
- 15) Fam20C stimulates de novo triiodothyronine (T₃) formation within thyroglobulin. **C. E. Citterio**, M. Torres, P. Arvan. Type of Presentation: Poster at the “88th Annual Meeting of the American Thyroid Association (ATA)”. Washington DC, U.S., 2018. Published abstract: *Thyroid*. October 2018, 28 (S1): A152.
- 16) De novo tri-iodothyronine (T₃) formation. **C. E. Citterio**, B. Veluswamy, P. Arvan. **Winner of the Trainee Poster Contest Award, Highlighted Poster and Oral Presentation.** Type of Presentation: Poster and Oral Presentation at the “87th Annual Meeting of the American Thyroid Association (ATA)”. Victoria, BC, Canada, 2017. Published abstract: *Thyroid*. October 2017, 27 (S1): A107.
- 17) Active thyroid hormone in the making. **C. E. Citterio** and P. Arvan. Type of Presentation: Poster at the “Kellogg Eye Center Symposium”. Kellogg Eye Center, University of Michigan, U.S., August 2017.

- 18) Transgenic mouse models of hypothyroidism. K. Davis, **C. E. Citterio**, D. Larkin, P. Arvan. Type of Presentation: Poster at the “Undergraduate Research Opportunity Program - Annual Spring Research Symposium”. Michigan Union, University of Michigan, U.S., April 2017.
- 19) Effects of thyroglobulin spontaneous mutations within the region I on its intracellular distribution and secretion. **C. E. Citterio**, S. Siffo, C. M. Moya, C. M. Rivolta, O. Rey, P. Arvan, H. M. Targovnik. Type of Presentation: Poster at the “LXI Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2016. Published abstract: *Medicina (Buenos Aires)* 76 (I), 235, 2016.
- 20) Analysis of three novel mutations within the thyroglobulin gene associated with goiter and hypothyroidism. S. Siffo, **C. E. Citterio**, E. Adrover, A. Chiesa, M. B. Miras, V. Gonzalez, J. Weill, R. Gonzalez-Sarmiento, C. M. Rivolta, H. M. Targovnik. Type of Presentation: Poster at the “LXI Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2016. Published abstract: *Medicina (Buenos Aires)* 76 (I), 235-236, 2016.
- 21) Thyroglobulin contribution to T₃-toxicosis arises from hyperstimulated thyrocytes. **C. E. Citterio**, B. Veluswamy, S. Atkins, T. Smith, P. Banga, and P. Arvan. **Poster Selected as Finalist for Award (Ranked in the Top Ten)**. Type of Presentation: Poster at the “86th Annual Meeting of the American Thyroid Association (ATA)”. Denver, Colorado, U.S., 2016. Published abstract: *Thyroid*. September 2016, 26(S1): P-1-A-91-92.
- 22) Tri-iodothyronine de novo synthesis within thyroglobulin. **C. E. Citterio**, B. Veluswamy and P. Arvan. Type of Presentation: Poster at the “Department of Internal Medicine 24th Annual Research Symposium”. Towsley Center, University of Michigan, U.S., May 2016.
- 23) Mechanisms involved in tri-iodothyronine (T₃) formation. **C. E. Citterio**, B. Veluswamy and P. Arvan. Type of Presentation: Poster at the “Brehm/Kellogg Trainee Symposium 2016”. Kellogg Eye Center, University of Michigan, U.S., May 2016.
- 24) Tri-iodothyronine (T₃) formation within thyroglobulin. **C. E. Citterio** and Peter Arvan. Type of Presentation: Poster at the “15th International Thyroid Congress and 85th Annual Meeting of the American Thyroid Association (ATA)”. Lake Buena Vista, Florida, U.S., 2015. Published abstract: *Thyroid*. October 2015, 25(S1): P-1-A-337.
- 25) Primary sites of active thyroid hormone (T₃) formation in thyroglobulin. **C. E. Citterio** and Peter Arvan. Type of Presentation: Poster at the “Department of Internal Medicine 23rd Annual Research Symposium”. Towsley Center, University of Michigan, U.S., May 2015.
- 26) Synthesis of tri-iodothyronine (T₃) within thyroglobulin. **C. E. Citterio** and P. Arvan. Type of Presentation: Poster at the “Brehm/Kellogg Trainee Symposium 2015”. Kellogg Eye Center, University of Michigan, U.S., April 2015.
- 27) Functional impact of new splicing mutation g.ivs17-1g>c in human gene Duox2 responsible for defect of iodide organification. F. S. Belforte, C. Osorio Larroche, M. Miras, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Poster at the “LIX Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, November 2014. Published abstract: *Medicina (Buenos Aires)* vol 74 (Supl III), 169, 2014.
- 28) Characterization of the intracellular distribution and secretion of rat thyroglobulin with mutations in the region I. Impact on thyroid hormonogenesis. **C. E. Citterio**, C.M. Morales, C. Moya, C. M. Rivolta, O. Rey, H. M. Targovnik. Type of Presentation: Poster at the “LIX Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2014. Published abstract: *Medicina (Buenos Aires)* 74 (III), 115, 2014.
- 29) New mutational mechanism in the thyroglobulin gene: Imperfect DNA inversion as a cause of hereditary hypothyroidism. **C. E. Citterio**, L. C. Rossetti, C. Morales, R. González-Sarmiento, C. M. Rivolta, C. D. De Brasi, H. M. Targovnik. Type of Presentation: Poster at the “LVIII Annual Meeting of the Argentine Society

- of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2013. Published abstract: *Medicina (Buenos Aires)* 73 (III), 206, 2013.
- 30) Molecular analysis of TPO gene in iodine organification defects. M. C. Olcese, C. Larroche Osorio, F. S. Belforte, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Poster at the "LVIII Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2013. Published abstract: *Medicina (Buenos Aires)* vol 73 (III), 279, 2013.
- 31) Thyroglobulin gene: Complex genotypes associated with goitre and hypothyroidism. **C. E. Citterio**, G. A. Machiavelli; M. C. Olcese, F. S. Belforte, C. M. Rivolta, H. M. Targovnik. Type of Presentation: Oral at the "LVII Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2012. Published abstract: *Medicina (Buenos Aires)* 72 (II), 216-217, 2012.
- 32) Identification of three new mutations in the thyroxin-binding globulin (TBG) gene responsible for full tbg deficit. M. C. Olcese, C. Larroche Osorio, F. S. Belforte, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the "LVII Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2012. Published abstract: *Medicina (Buenos Aires)* vol 72 (II), 216, 2012.
- 33) Cloning of wild type and mutant human thyroperoxidase cDNA gene responsible for congenital goiter. F. S. Belforte, C. Larroche Osorio, M. C. Olcese, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Poster at the "LVII Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2012. Published abstract: *Medicina (Buenos Aires)* vol 72 (II), 231 and 232, 2012.
- 34) Molecular analysis of DUOX2 gene in patients with congenital hypothyroidism caused by organification defect. F. S. Belforte, C. Larroche Osorio, M. C. Olcese, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the "LVII Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2012. Published abstract: *Medicina (Buenos Aires)* vol 72 (II), 162, 2012.
- 35) Analysis of inactivating mutations in human thyroglobulin gene and the effects on its functional domains. **C. E. Citterio**, G. A. Machiavelli, F. S. Belforte, M. C. Olcese, C. M. Rivolta, H. M. Targovnik. Type of Presentation: Oral at the "LVI Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2011. Published abstract: *Medicina (Buenos Aires)* 71 (III), 145, 2011.
- 36) Molecular characterization of mutations in beta thyroid hormone receptor causing resistance to thyroid hormones. M. C. Olcese; F. S. Belforte, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the "LVI Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2011. Published abstract: *Medicina (Buenos Aires)* vol 71 (III), 146, 2011.
- 37) Molecular study of congenital hypothyroidism pathophysiology in families affected by blocking of iodine organification. Molecular analysis of Duox2 and TPO genes. F. S. Belforte, M. C. Olcese, **C. E. Citterio**, M. Miras, A. Chiesa, L. Gruñeiro - Papendieck, R. González- Sarmiento, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the "LVI Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2011. Published abstract: *Medicina (Buenos Aires)* vol 71 (III), 564, 2011.
- 38) Molecular analysis of hypothyroidism with altered thyroglobulin biosynthesis; Identification and characterization of cryptic splicing sites in the human thyroglobulin gene. **C. E. Citterio**, S. Ciria Abad, M. C. Olcese, F. S. Belforte, V. Varela, G. A. Machiavelli, R. González- Sarmiento, C. M. Rivolta, H. M. Targovnik. **Selected as Finalist for Award.** Type of Presentation: Oral at the "LV Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2010. Published abstract: *Medicina (Buenos Aires)* 70 (II), 57, 2010.
- 39) Iodine organification defects. Molecular analysis of TPO and Duox2 genes. F. S. Belforte, M. C. Olcese, **C. E. Citterio**, M. Miras, A. Chiesa, L. Gruñeiro - Papendieck, R. González- Sarmiento, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the "LV Annual Meeting of the Argentine Society of Clinical Research (SAIC)". Mar del Plata, Buenos Aires, Argentina, 2010. Published abstract: *Medicina (Buenos Aires)* vol 70 (II), 204 and 205, 2010.

- 40) Abnormal transport of thyroid hormones. Molecular analysis of thyroxin-binding globulin and transthyretin genes. M. C. Olcese, F. S. Belforte, **C. E. Citterio**, P. Papendieck, L. Gruñeiro Papendieck, A. Chiesa, R. T. Sklate, G. C. Maccallini, H. Niepomniszcze, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the “LV Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2010. Published abstract: *Medicina (Buenos Aires)* vol 70 (II), 205, 2010.
- 41) Genotyping and characterization of a new gene microsatellite marker in beta thyroid hormone receptor. M. C. Olcese, F. S. Belforte, **C. E. Citterio**, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the “LV Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2010. Published abstract: *Medicina (Buenos Aires)* vol 70 (II), 205, 2010.
- 42) Identification and characterization of new natural mutations in the thyroglobulin gene. Analysis of the inactivating effects over the functional domains of the protein. **C. E. Citterio**, X. Teimoy, G. A. Machiavelli, F. S. Belforte; M. C. Olcese, R. González-Sarmiento, C. M. Rivolta, H. M. Targovnik. Type of Presentation: Oral at the “LIV Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2009. Published abstract: *Medicina (Buenos Aires)* vol 69 (I), 139, 2009.
- 43) Identification and characterization of new mutations in the human thyroperoxidase gene. Predictive analysis of their effects on the protein structure. F. S. Belforte, M. C. Olcese, **C. E. Citterio**, R. González-Sarmiento, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the “LIV Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2009. Published abstract: *Medicina (Buenos Aires)* vol 69 (I), 113, 2009.
- 44) Predictive analysis of the three-dimensional structures of mutant thyroid hormone receptor causing resistance to thyroid hormones. M. C. Olcese, F. S. Belforte, **C. E. Citterio**, R. González-Sarmiento, H. M. Targovnik, C. M. Rivolta. Type of Presentation: Oral at the “LIV Scientific Annual Meeting of the Argentine Society of Clinical Research (SAIC)”. Mar del Plata, Buenos Aires, Argentina, 2009. Published abstract: *Medicina (Buenos Aires)* vol 69 (I), 210, 2009.

INVITED TALKS

- 1) Thyroid Hormone Synthesis in Thyroglobulin: Physiology and Disease. Extramural invited presentation in the College of Sciences at the University of Nevada, Las Vegas, March 3, 2023.
- 2) From Thyroid Cell Biology and Organismal Physiology to Human Disease. Extramural invited presentation at Florida State University College of Medicine, Tallahassee, Florida, February 14, 2023.
- 3) Structural Features and Genetic Variants of the Thyroid Hormone Precursor Protein: Pathophysiological Implications. Extramural invited presentation at the David Geffen School of Medicine, University of California Los Angeles (UCLA), Los Angeles, CA, May 23, 2022.
- 4) The Role of Thyroglobulin in Thyroid Hormonogenesis. Extramural invited presentation at the Department of Chemistry and Biochemistry, Cal State Fullerton, Fullerton, CA, March, 18, 2022
- 5) Pharmacogenetics and Pharmacogenomics. Virtual Seminar for the University of Buenos Aires, Faculty of Pharmacy and Biochemistry. 10/26/2021.
- 6) De novo Triiodothyronine (T3) Formation in T3 Toxicosis of Graves’ Disease. Extramural invited presentation: 89th Annual Meeting of the American Thyroid Association (ATA), Research Grant Symposium. Sheraton Grand Chicago, Chicago, IL- 11/01/2019.
- 7) De novo triiodothyronine formation from thyrocytes activated by thyroid-stimulating hormone. Extramural invited presentation: Invited Speaker - XVII Latin American Thyroid Society Congress. Panamericano Hotel, Buenos Aires, Argentina - 06/21/2019.
- 8) Active Thyroid Hormone Synthesis and Thyroid Diseases. INIGEM, CONICET- University of Buenos Aires, Buenos Aires, Argentina - 06/24/2019.

- 9) Triiodothyronine (T₃) Formation in the T₃ Toxicosis of Graves' Disease. ININFA, CONICET-University of Buenos Aires, Buenos Aires, Argentina – 08/30/2018.
- 10) Career Fair. Undergraduate Research Opportunity Program (UROP), Mason Hall, University of Michigan, U.S. – 03/21/2017.
- 11) Career Panel Seminar: Pharmaceutical Sciences, Biochemistry, Cellular and Molecular Biology, Genetics and Endocrine Diseases. UROP, Mason Hall, University of Michigan – 03/07/2017.
- 12) Interdisciplinary research: Molecular biology of endocrine diseases. UROP, Mason Hall, University of Michigan – 02/07/2017.
- 13) Tri-iodothyronine formation within thyroglobulin. TED Talk. Rackham Graduate School, University of Michigan – 03/19/2016.
- 14) Mechanisms involved in tri-iodothyronine (T₃) formation. Chalk talks for trainees. Kellogg Eye Center, University of Michigan – 02/12/2016.
- 15) Tri-iodothyronine formation within thyroglobulin. Speaker at AGEP Research Symposium, Michigan, US – 03/20/2015.
- 16) Molecular approach to the study of congenital hypothyroidism, the most prevalent inborn endocrine disorder. UROP, Mason Hall, University of Michigan – 02/24/2015.
- 17) Analysis of the molecular-genetic events that determine the pathogenesis of the congenital hypothyroidism associated with thyroglobulin gene defects. EDN Data Club/Research Conference, Division of Endocrinology, Diabetes and Nutrition (EDN). University of Maryland, Baltimore, Maryland – 08/14/2014.
- 18) Replication. Transcription. Translation. Division of Endocrinology, “José de San Martín Hospital”, Buenos Aires, Argentina – 06/15/2012.
- 19) Analysis of inactivating mutations in the human thyroglobulin gene and the effects on its functional domains. Department of Microbiology, Immunology and Biotechnology, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina – 04/19/2012.
- 20) Molecular basis of congenital hypothyroidism with goiter. Division of Endocrinology “José de San Martín Hospital”, Buenos Aires, Argentina – 10/03/2011.
- 21) Genetic defects in congenital hypothyroidism. Identification and characterization of new mutations in thyroglobulin. Department of Microbiology, Immunology and Biotechnology, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina -09/09/2010.

POSTGRADUATE COURSES COMPLETED

- 1) Proteome & Metabolome Informatics (Bioinf 551). University of Michigan — August 29 to December 9, 2022
- 2) CRISPR/Cas9 and Mouse Embryonic Stem (ES) Cell Training. The University of Michigan Transgenic Animal Model Core, University of Michigan — August 22 to September 2, 2022
- 3) Essential Skills for Successful Leadership. Office of Faculty Development, University of Michigan Medical School – July 2022.
- 4) Genomic Technologies in Clinical Diagnostics: Next Generation Sequencing (Virtual Course). St George's, University of London - FutureLearn – June 2021.
- 5) Course on Gender issues for the staff of the University of Buenos Aires (Online Course). University of Buenos Aires, Buenos Aires, Argentina – April to May 2020.

- 6) Research-based practices for college teaching (Online Workshop). Center for Research on Learning and Teaching (CRLT), University of Michigan, U.S – August 2017.
- 7) Virtual teaching and learning environments, Level 2 (Online Course). CITEP, University of Buenos Aires, Buenos Aires, Argentina – May to July 2017.
- 8) Improve the education system to improve learning (Online Course). CITEP, University of Buenos Aires, Buenos Aires, Argentina – May to June 2017.
- 9) Design of educational projects with technologies (Online Course). CITEP, University of Buenos Aires, Buenos Aires, Argentina – April to May 2017.
- 10) Virtual teaching and learning environments, Level 1 (Online Course). CITEP, University of Buenos Aires, Buenos Aires, Argentina – February to March 2017.
- 11) Training for diversity and inclusive teaching. Rackham Graduate School, University of Michigan, U.S. – March to April 2017.
- 12) Postdoctoral short-course on college science teaching. Center for Research on Learning and Teaching (CRLT), University of Michigan – January 2016 to February 2016.
- 13) Methods for the conformational study of proteins and their interactions. Faculty of Pharmacy and Biochemistry, University of Buenos Aires - October 2012.
- 14) Expression and purification of recombinant proteins in the baculovirus system. Faculty of Pharmacy and Biochemistry, University of Buenos Aires – June 2011 to July 2011.
- 15) Lipids in cell biology. Strategies for the study of its participation in signal transduction. Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina - April 2010 to July 2010.
- 16) Purification and characterization of proteins; Application to recombinant proteins. Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires – May 2010.
- 17) Molecular biology tools. Directed mutagenesis and its application to the study of the structure and function of proteins. Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina - November 2009 to December 2009.

MEMBERSHIPS

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| 02/2022 – Present | Member of the National Center for Faculty Development & Diversity, U.S. |
| 01/2022 – Present | Member of the Endocrine Society, U.S. |
| 01/2019 – Present | Active Member of the American Thyroid Association, U.S. |
| 2015 – 12/2018 | Associate Member of the American Thyroid Association, U.S. |
| 2012 – Present | Full Member of the Argentine Society of Clinical Research (SAIC), Argentina. |