

CURRICULUM VITAE

Name: Ariel H. Polizio, Ph.D, PharmD.

Email: arielhepolizio@gmail.com, ap9dr@virginia.edu,

Education: Pharmacy, University of Buenos Aires, Argentina, 2000.

Biochemistry, University of Buenos Aires, Argentina, 2004.

Ph.D in Biochemistry. University of Buenos Aires, Argentina, August 2010.

Thesis title: "*Behavior of the Antioxidant Enzyme System in Different Models of Experimental Hypertension*". Mentor: Prof. Maria Lujan Tomaro and Clara Peña.

Career/Academic Appointments:

2000-2003 Teaching Associate, Department of Pharmacology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina.

2003-2008 PhD Student, Department of Biological Chemistry, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina.

2006-2008 Research fellow of the National Research Council of Argentina (CONICET), Argentina.

2008-2010 Research Scholar. Department of Biochemistry, Thomas Jefferson University, Philadelphia, PA. Advisor: Dr. Natalia Riobo del Galdo.

2010-2014: Assistant Researcher. National Scientific and Technical Research Council. (CONICET). School of Pharmacy and Biochemistry, Department of Pharmacology. University of Buenos Aires. Argentina. *On sabbatical leave from 6/2012 to 1/2014.*

2012-2014: Postdoctoral Research Fellow. The Hospital for the Sick Children, Toronto, Ontario, Canada. Advisor: Dr. Gabrielle Boulianne.

2014-2016: Postdoctoral Research Associate. Cancer Center. Ohio State University, Columbus, Ohio. United States of America. Advisor: Gustavo W. Leone.

2016-2019: Adjunct Researcher, (**Assistant/Associate Professor rank**), National Research Council of Argentina (CONICET), School of Pharmacy and Biochemistry, Department of Pharmacology. University of Buenos Aires.
https://www.conicet.gov.ar/new_scp/detalle.php?id=30974&keywords=polizio&detos_academicos=yes

2019-2022: Research Associate (Postdoctoral Associate). University of Virginia.

2020- 2021: Member Career Development Committee. Postdoctoral Association University of Virginia.

2022-Present: Research Scientist. University of Virginia.

BIBLIOGRAPHY:

Peer-Reviewed Manuscripts:

Polizio, A.H., Marino, L., Rolauer, L., Grandoch, M., Toldo, S., Walsh, K. Clonal hematopoiesis increases hypertension and sympathetic activity and is reversed by renal denervation. *Hypertension* 2025; 82:e28-e30. doi: 10.1161/HYPERTENSIONAHA.124.23969.

Evans, M.A., Chavkin, N.W., Sano, S., Sun, H., Sardana, T., Ravi, R., Doviak, H., Wang, Y., Yura, Y., **Polizio, A.H.**, Horitani, K., Ogawa, H., Hirschi, HK., Walsh, K. Tet2-mediated clonal hematopoiesis modestly improves neurological deficits and is associated with inflammation resolution in the subacute phase of experimental stroke. *Front Cell Neurosci.* 2024;18:1487867. doi: 10.3389/fncel.2024.1487867. eCollection 2024.

Polizio, A.H., Marino, L., Min, K.Y., Yura, Y., Rolauer, L., Cochran, J., Evans, M.A., Park, E., Doviak, H., Miura-Yura, E., Good, M., Wolpe, A.G., Grandoch, M., Isakson, B.E., Walsh, K. Experimental TET2 clonal hematopoiesis predisposes to renal hypertension through an inflammasome-mediated mechanism. *Circ Res.* 2024; 11;135:933-950. doi: 10.1161/CIRCRESAHA.124.324492. *Editorial comments on:* *Circ Res.* 2024;135:951-953. doi: 10.1161/CIRCRESAHA.124.325364. This research article was highlighted in Meet the First Author, Featured Article (Editor's Pick), Editorial Comment, Journal Cover and Discover Cir Res Podcast.

Horitani, K., Chavkin, N.W., Arai, Y., Wang, Y., Ogawa, H., Yura, Y., Evans, M.E., Cochran, J., Thel, M.C., **Polizio, A.H.**, Sano, M., Miura-Yura, E., Arai, Y., Doviak, H., Arnold, A.P., Gelfand, B., Hirschi, K.K., Sano, S., Walsh, K. Disruption of the Uty epigenetic regulator locus in hematopoietic cells phenocopies the profibrotic attributes of Y chromosome loss in heart failure. *Nat Cardiovasc Res.* 2024 3, 343–355. <https://doi.org/10.1038/s44161-024-00441-z>.

Martinez Naya, N., Kelly, J., Corna, G., Golino, M., **Polizio, A.H.**, Abbate, A., Toldo, S., Mezzaroma, E. An Overview of Cannabidiol as a Multifunctional Drug: Pharmacokinetics and Cellular Effects. *Molecules*. 2024 Jan 18;29(2):473. doi: 10.3390/molecules29020473.

Cochran, J., Yura, Y., Thel, MC., Doviak, H., **Polizio, A.H.**, Arai, Y., Arai, Y., Horitani, K., Park, E., Chavkin, NW., Kour, A., Sano, S., Mahajan, N., Evans, M.A., Huba, H., Martinez-Naya, N., Sun, H., Ban, Y., Hirschi, K.K., Toldo, S., Abbate, A., Druley, T.E., Ruberg, F.L., Maurer, M.S., Ezekowitz, J.A., Dyck, J.R.B., Walsh, K. Clonal Hematopoiesis in Clinical and Experimental Heart Failure With Preserved Ejection Fraction Circulation. 2023;148:1165-1178. doi: 10.1161/CIRCULATIONAHA.123.064170.

Polizio, A.H., Park, E., Walsh, K. Clonal Hematopoiesis: Connecting Aging and Inflammation in Atherosclerosis. *Curr Atheroscler Rep.* 2023; 25:105-111. doi: 10.1007/s11883-023-01083-5.

Min, K.D., **Polizio, A.H.**, Kour, A., Thel, M.C., Walsh K. Experimental ASXL1-mediated Clonal Hematopoiesis Promotes Inflammation and Accelerates Heart Failure. *J Am Heart Assoc.* 2022; 11:e026154. doi: 10.1161/JAHA.122.026154.

Höcht, C., Allo, M.A., **Polizio, A.H.**, Morettón, M.A., Carranza, A., Chiappetta, D.A., Choi, M.R. New and developing pharmacotherapies for hypertension. *Expert Rev Cardiovasc Ther.* 2022. doi: 10.1080/14779072.2022.2105204.

Yura, Y., Miura-Yura, E., Katanasaka, Y., Min, K.D., Chavkin, N.W., **Polizio, A.H.**, Ogawa, H., Horitani, K., Doviak, H., Evans, M.A., Sano, M., Wang, Y., Boroviak, K., Philippos, G., Filipa Domingues, A., Vassiliou, G., Sano, S., Walsh, K. The cancer therapy-related clonal hematopoiesis driver gene Ppm1d promotes inflammation and non-ischemic heart failure in mice. *Circ Res* 2021; 129:684-698. doi: 10.1161/CIRCRESAHA.121.319314.

Sano, S., Wang, Y., Ogawa, H., Horitani, K., Sano, M., **Polizio, A.H.**, Kour, A., Yura, Y., Doviak, H., Walsh, K. TP53-mediated therapy-related clonal hematopoiesis contributes to doxorubicin-induced cardiomyopathy by augmenting a neutrophil-mediated cytotoxic response. *JCI Insight* 2021;6: e146076. <https://doi.org/10.1172/jci.insight.146076>.

Del Mauro, J.S., Prince, P.D., Santander Plantamura, Y., Allo, M., Parola, L., Fernandez-Machulsky, N., Morettón, M.A., Bin, E.P., González, G.E., Bertera, F.M., Carranza, A., Berg, G., Taira, C.A., Donato, M., Chiappetta, D.A., **Polizio, A.H.**, Höcht, C. Nebivolol is more effective than atenolol for blood pressure variability attenuation and target organ damage prevention in L-NAME hypertensive rats. *Hypertension Research* 2021;44:791-802. doi: 10.1038/s41440-021-00630-4.

Del Mauro, J.S., Prince, P.D., Allo, M.A., Santander Plantamura, Y., Morettón, M.A., González, G.E., Bertera, F.M., Carranza, A., Gorzalczany, S.B., Chiappetta, D.A., Morales. C., Gelpi, R.J., Taira, C.A., **Polizio, A.H.**, Donato, M., Höcht, C. Effects of third-generation β-blockers, atenolol or amlodipine on blood pressure variability and target organ damage in spontaneously hypertensive rats. *J Hypertens.* 2020;38:536-545. **Editorial comments on page 405.**

Höcht C., Bertera, F.M., Santander Plantamura, Y., Parola, L., Del Mauro, J.S., **Polizio, A.H.** Factors influencing hepatic metabolism of antihypertensive drugs: impact on clinical response. *Expert Opinion on Drug Metabolism & Toxicology*, 2019. DOI: 10.1080/17425255.2019.1558204

Höcht C., Bertera, F.M., Del Mauro, J.S., Santander Plantamura, Y., Taira, C.A., **Polizio, A.H.** What is the Real Efficacy of Beta-Blockers for the Treatment of Essential Hypertension? *Curr Pharm Des.* 2017;23:4658-4677.

Prince, P. D., Santander, Y., Gerez, EM., Höcht, C., **Polizio, A.H.**, Mayer, M.A., Taira, C.A., Fraga, C.G., Galleano, M., Carranza, A. Fructose increases corticosterone production in association with NADPH metabolism alterations in rat epididymal white adipose tissue. *J Nutr Biochem* 2017; 46:109-116.

Bertera, F.M., Del Mauro, J.S., Lovera, V., Chiappetta, D., **Polizio, A.H.**, Taira, C.A., Höcht, C. Enantioselective pharmacokinetics and cardiovascular effects of nebivolol in L-NAME hypertensive rats. *Hypertens Res* 2014; 37: 194-201.

Bertera, F.M., Santa-Cruz, D.M., Balestrasse, K.B., Gorzalczany, S.B., Höcht, C., Taira, C.A., **Polizio, A.H.** Tempol-nebivolol therapy potentiates hypotensive effect increasing NO bioavailability and signaling pathway. *Free Radic Res* 2014; 48: 109-18.

Bertera, F.M., Del Mauro, J.S., Lovera, V., Chiappetta, D., **Polizio, A.H.**, Taira, C.A., Höcht, C. Acute effects of third generation β -blockers on short-term and beat-to-beat blood pressure variability in sinoaortic-denervated rats. *Hypertens Res.* 2013; 36: 349-55.

Bertera, F.M., Del Mauro, J.S., **Polizio, A.H.**, Chiappetta, D., Taira, C.A., Höcht, C. Effect of nebivolol on beat-to-beat and short-term blood pressure variability in spontaneously hypertensive rats. *Naunyn Schmiedebergs Arch Pharmacol* 2012; 385: 833-43.

Bertera, F.M., Del Mauro, J.S., Chiappetta, D., **Polizio, A.H.**, Buontempo, F., Taira, C.A., Höcht, C. Enantioselective pharmacokinetic and pharmacodynamic properties of carvedilol in spontaneously hypertensive rats: focus on blood pressure variability. *Naunyn Schmiedebergs Arch Pharmacol* 2012; 385: 325-35.

Bertera, F.M., Di Verniero, C.A., Mayer, M.A., Chiappetta, D., Buontempo, F., **Polizio, A.H.**, Taira, C.A., Höcht, C. Pharmacokinetic and pharmacodynamic properties of carvedilol in fructose hypertensive rats. *Xenobiotica* 2012; 42: 206-19.

Polizio, A.H., Chichilla, P., Chen, X., Manning, D.R., Riobo, N.A. Sonic Hedgehog activates the GTPases Rac1 and RhoA in a Gli-independent manner through coupling of Smoothened to Gi proteins. *Science Signaling* 2011; 22:4:pt7.

Zilli, C.G., Santa-Cruz, D.M., **Polizio, A.H.**, Tomaro, M.L., Balestrasse, K.B. Symbiotic association between soybean plants and Bradyrhizobium japonicum develops oxidative stress and heme oxygenase-1 induction at early stages. *Redox Report* 2011; 16: 49-55.

Polizio, A.H., Chinchilla, P., Chen, X.L., Kim, S., Manning, D.R., Riobo, N.A. Heterotrimeric Gi Proteins link Hedgehog signaling to activation of Rho small GTPases to promote fibroblast migration. *J Biol Chem* 2011, 286:19589-96.

Polizio, A.H., Santa-Cruz, D.M., Balestrasse, K.B., Gironacci, M.M., Bertera, F.M., Höcht, C., Taira, C.A., Tomaro, M.L., Gorzalczany, S.B. Heme oxygenase-1 overexpression fails to attenuate hypertension when the nitric oxide synthase system is not fully operative. *Pharmacology* 2011, 87: 341-349.

Santa-Cruz, D.M., Pacienza, N.A., **Polizio, A.H.**, Balestrasse, K.B., Tomaro, M.L., Yannarelli, G.G. Nitric oxide synthase-like dependent NO production enhances heme oxygenase up-regulation in ultraviolet-B-irradiated soybean plants. *Pytochemistry* 2010, 71: 1700-1707.

Polizio, A.H., Gorzalczany, S., Tomaro, M.L. Lowering arterial pressure delays the oxidative stress generation in a renal experimental model of hypertension. *J Cardiovasc Pharmacol* 2009, 54(4): 348-54

Polizio, A.H., Balestrasse, K.B., Gornalusse, G.G., Gorzalczany, S.B., Santa-Cruz, D.M., Yannarelli, G.G., Peña, C., Tomaro, M.L. Losartan exerts renoprotection through NAD(P)H oxidase downregulation in a renovascular model of hypertension. *Regul Pept* 2009, 156: 28-33.

Zilli, C.G., Balestrasse, K.B., Yannarelli, G.G., **Polizio, A.H.**, Santa-Cruz, D.M., Tomaro, M.L. Heme oxygenase up-regulation under salt stress protects nitrogen metabolism in nodules of soybean plants. *Environmental and Experimental Botany* 2008, 64: 83-89.

Polizio, A.H., Balestrasse, K.B., Yannarelli, G.G., Noriega, G.O., Gorzalczany, S., Taira, C., Tomaro, M.L. Angiotensin II regulates cardiac hypertrophy via oxidative stress but not antioxidant enzyme activities in experimental renovascular hypertension. *Hypertens Res* 2008, 31: 325-334.

Polizio, A.H., Peña, C. Lisinopril as an antioxidant in hypertension? *Antioxid Redox Signal* 2007, 9 (3): 393-397.

Polizio, A.H., Gironacci, M.M., Tomaro, M.L., Peña, C. Angiotensin-(1-7) blocks the angiotensin II-stimulated superoxide production. *Pharmacol Res* 2007, 56: 86-90.

Polizio, A.H., Gonzales, S., Muñoz, M.C., Peña, C., Tomaro, M.L. Behaviour of the anti-oxidant defence system and heme oxygenase-1 protein expression in fructose-hypertensive rats. *Clin Exp Pharmacol Physiol* 2006, 33(8): 734-739.

Polizio, A.H., Gorzalczany, S., Taira, C., Peña, C. Aortic coarctation induces oxidative stress in rat tissues. *Life Sci* 2006, 79: 596-600.

Gonzales, S., **Polizio, A.H.**, Erario, M.A., Tomaro, M.L., Glutamine is highly effective in preventing in vivo cobalt-induced oxidative stress in rat liver. *World J Gastroenterol* 2005, 11(23): 3533-3538.

Polizio, A.H., Peña, C. Effects of angiotensin II type 1 receptor blockade on the oxidative stress in spontaneously hypertensive rat tissues. *Regul Pept* 2005, 128(1): 1-5.

Books

Zilli, C.G., Santa-Cruz, D.M., **Polizio, A.H.**, Yannarelli, G.G., Tomaro, M.L., Balestrasse, K.B. Regulation of nitrogen metabolism by antioxidant system in soybean plants treated with salt stress. Soy. Correa, Olga, Editor. 1 ed. Universidad de Buenos Aires, 2011. ISBN: 978-950-29-1334-6.

Teaching Experience

2000-2003: Pharmacology I and II. Undergraduate Course. School of Pharmacy and Biochemistry. University of Buenos Aires.

2003-2007: Biological Chemistry. Undergraduate Course. School of Pharmacy and Biochemistry. University of Buenos Aires.

2010-2012: Pharmacology I. Undergraduate Course. School of Pharmacy and Biochemistry. University of Buenos Aires.

2021-present: Mentor, Summer Research Internship Program for minorities. University of Virginia.

Alumni (As a Mentor)

Maxwell Hart: Undergraduate Student. Ohio State University. 2014-2016. Medical Resident in Internal Medicine. University of Arizona, Tucson. Role: mentor.

Jennifer Kim: Undergraduate Student. Ohio State University. 2014-2016. Medical Student in Case Western Reserve University, School of Medicine. Role: Mentor.

Luca Rolauer: Graduate Student. University of Virginia. 2020-2021. Heinrich-Heine-Universität Düsseldorf. Role: Mentor.

Eric Wynn: Summer Research Internship Program for Minorities- UVA. 2022. Graduate Student at Harvard University. Role: Mentor.

Gimarie Fernandez: Summer Research Internship Program for Minorities- UVA. 2023. Microbiology Student. Universidad Ana Maria Mendez. Puerto Rico. Role: Mentor.

Charlie Taylor: Summer Research Internship Program for Minorities- UVA. 2024. Biology Student. Baylor University. Role: Mentor.

Laura Yousif: Graduate Student. University of Virginia. 2024. Erasmus MC University. [Rotterdam, Netherlands](#). Role: Mentor.

Grants

- 2017: Argentine Research Council (CONICET). Principal Investigator operative grant PIP 2017-2019. 11220170100810CO-KB3: "Interaction between antioxidants and third generation-beta adrenergic blockers in different models of hypertension". 2000 USD per year/ two years. Declined.
- 2012: Fellowship from The Hospital for The Sick Children. Category G. Toronto, Ontario, Canada (25 applicants, 2 awarded). Two years, total 72.000 USD.
- 2011: Argentine Research Council (CONICET). New Young Principal Investigator operative grant. PIP 2012-2014. 114 20110100277- KB1: "Interaction between antioxidants and beta-adrenergic blockers in a genetic model of hypertension". 2000 USD per year/ two years. Declined.
- 2007: The New Investigator Travel and Consortium for Southeastern Hypertension Control Travel Awards. Awards of the XVIIth Scientific Meeting of the Inter-American Society of Hypertension. American Heart Association (AHA).

Professional Honors & Recognition

A) International/National/Regional

- 2023: Best abstract. American Heart Association. Hypertension Scientific Sessions 2023. Boston, MA.
- 2018: Annual Florencio Fiorini Award on Advances in Medical Specialties. Advances in Obesity - 21st Century Epidemic. Second Place. "Fructose increases corticosterone production by adipose tissue in association with alterations in NADPH metabolism."

- 2016: Judge. 2016 Denman Undergraduate Research Forum and the Spring Expo. Undergraduate Research Office. The Ohio State University. Columbus, Ohio. United States.
- 2011: Nominated for best work in basic scientific research. Argentine Society of Cardiology.
- 2010: Nominated for best work in basic scientific research. Argentine Council of Hypertension.
- 2007: Nominated for best work in basic scientific research. Argentine Society of Cardiology.
- 2006: Nominated for best work in basic scientific research. Argentine Society of Cardiology.
- 2005: Nominated for best work in basic scientific research. Argentine Society of Cardiology.
- Nominated for best work in basic scientific research. Argentine Council of Hypertension.
- 2004: Nominated for best work in basic scientific research. Argentine Society of Hypertension (SAHA).

Peer Reviewer Ad-Hoc

Circulation. Pflügers Archiv - European Journal of Physiology, Cell Division, Nutrire (Springer-Nature), BMC Cardiovascular Disorders, Journal of Physiology and Biochemistry, Pharmacological Research, The Journal of Cardiovascular Pharmacology, Journal of Cardiovascular Pharmacology and Therapeutics, International Journal of Neuroscience, Pharmacology Biochemistry and Behavior, Journal of Plant Physiology & Pathology, Mini-Reviews in Medicinal Chemistry, Journal of Physiology and Biochemistry, European Journal of Pharmacology, Current Clinical Pharmacology, Scandinavian Cardiovascular Journal, Current Hypertension Reviews, Biomedicine & Pharmacotherapy.

Lectures, Courses, Web-based Education:

- 2023: Age-related Clonal Hematopoiesis Predisposes to Hypertension in Mice Through an Inflammasome Mechanism. American Heart Association. Hypertension Scientific Meeting, 2023. Speaker.
- Clonal hematopoiesis in experimentally induced colitis. Journal of Biological Chemistry 299 (3), S732.
- 2018: Polizio, A.H. Latino-American Meeting of Alternative Methods in Laboratory Animals (COLAMA). Uses of 3R in Medical Research. Efficacy using Drosophila Melanogaster as a substitute for medical experimental research. Invited Speaker.
- 2017: Santander, Y., Carranza, A., Allo, M., Del Mauro, J.S., Polizio, A.H., Donato, M., Gelpi, R., Hocht, C., Taira, C.A. Nebivolol alone or combined with tempol improve the hemodynamic parameters in a model of metabolic syndrome. The 4th Latin

America Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension. Argentina, Buenos Aires, March 2017.

2012: 48 Annual Meeting XLVIII-Argentine Society for Biochemistry and Molecular Biology SAIB "Nitric oxide mediated antioxidant enzymes expression of soybean leaves against UVB radiation accumulation."

XXXIX Annual Scientific Meeting, Argentine Society of Cardiology (SAC), "Enantioselective pharmacokinetic and pharmacodynamic properties of nebivolol in spontaneously hypertensive rats".

XXXIII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Cardiovascular effects of nebivolol in fructose hypertensive rats".

XXXIII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Comparison of effects between amlodipine and atenolol on blood pressure variability in spontaneously hypertensive rats"

XXXIII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Correlation between dose-response curve and the cardiovascular effect of hydrogen sulfide in normotensive and hypertensive animals".

XIX Annual Scientific Meeting, Argentine Council of Hypertension, Argentina."Effect of nebivolol on blood pressure variability in spontaneously hypertensive rats".

2011: 2nd International Congress on Abdominal Obesity. February 2011. "Fructose overload in rats would increase corticosterone production modifying NADPH metabolism in epididymal white adipose tissue".

American Heart Association's Council for High Blood Pressure Research. Scientific Sessions. Orlando, FL. USA. "Effect of Carvedilol on cardiovascular parameters and blood pressure variability in spontaneously hypertensive rats"

American Heart Association's Council for High Blood Pressure Research. Scientific Sessions. Orlando, FL. USA. "Antioxidant-nebivolol Association Enhances Antihypotensive Response Through NO Pathway Improvement".

American Heart Association's Council for High Blood Pressure Research. Scientific Sessions. Orlando, FL. USA. "Chronic administration of tempol fails to improve the antihypertensive response to nebivolol in L-NAME hypertensive rats".

XXXVII Annual Scientific Meeting, Argentine Society of Cardiology (SAC), Argentina. "Acute administration of hydrogen sulfide decreases arterial pressure in a model of genetic hypertension".

XXXVII Annual Scientific Meeting, Argentine Society of Cardiology (SAC), Argentina. Hypotensive responses of hydrogen sulfide in a model of arterial pressure variability by sinoaortic denervation".

- 2010: ININFA. May 2010 "Sonic hedgehog stimulates fibroblast migration through a non-canonical signaling pathway".
- 55 Annual Scientific Meeting. Argentine Society of Clinical Investigation (SAIC), Argentina. "Pretreatment with tempol increases the antihypertensive response of nebivolol via the oxide nitric synthase pathway".
- XXXI Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Role of Heme oxygenase-1 in the regulation of blood pressure in a renovascular model of hypertension".
- 2009: Fourth Annual Postdoctoral Research Symposium. Thomas Jefferson University. "Sonic hedgehog stimulates fibroblast migration through a non-canonical signaling pathway".
- "Oxidative Stress in Hypertension. Who is to blame?" Buck Institute. Novato, California. May 22, 2009.
- 2007: Argentine Society of Experimental Pharmacology (SAFE). XXXVIII Annual Scientific Meeting, Argentina. "Role of oxidative stress in vessels from aortic coarcted rats".
- XVIIth Scientific Sessions Inter-American Society of Hypertension, USA. "Angiotensin II induces cardiac hypertrophy via oxidative stress, but not the antioxidant enzyme system in experimental renovascular hypertension".
- The 5th International Congress of Heme Oxygenases, Poland. "Haem oxygenase up-regulation under salt stress protects nitrogen metabolism in nodules of soybean plants".
- XVII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Aortic coarctation induces oxidative stress in aortic artery".
- 52 Annual Scientific Meeting. Argentine Society of Clinical Investigation (SAIC), Argentina. "Arterial pressure, but not angiotensin II, induces oxidative stress in aortic artery".
- 2006: XIII Annual Scientific Meeting, Argentine Society of Hypertension, Argentina. "Losartan prevents oxidative damage in kidney of aortic coarcted rats".
- XXXIII Annual Scientific Meeting, Argentine Society of Cardiology, Argentina. "Angiotensin -(1-7) blocks the angiotensin II –stimulated superoxide production".
- XXVI Annual Scientific Meeting, Argentine Society of Plant Physiology, Argentina. "Heme oxygenase up-regulation under salt stress protects nitrogen metabolism in nodules of soybean plants".
- XVII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Cardiac hypertrophy is mediated by Angiotensin II through reactive oxygen species induction in aortic coarctated rats".

- XVII Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Arterial pressure regulates antioxidant system in kidney of aortic coarctated rats".
- 2005: XXXII Annual Scientific Meeting, Argentine Society of Cardiology, Argentina. "Oxidative damage in hypertensive aortic coarctated rats".
- XVI Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Losartan treatment prevents cardiac heme-oxygenase-1 induction in hypertensive aortic coarctated rats".
- XVI Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Lisinopril blocks oxidative damage in hypertension".
- 50 Annual Scientific Meeting, Argentine Society of Clinical Investigation (SAIC), Argentina. "Importance of HO/CO system in the regulation of arterial pressure".
- 2004: XII Biennial Meeting of the Society for Free Radical Research International, Argentina. "Heme-oxygenase: a physiological antioxidant defense".
- XI Annual Scientific Meeting, Argentine Society of Hypertension, Argentina. "Angiotensin II induces oxidative stress in rat tissues".
- XV Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Different redox status in two opposites models of hypertension".
- XV Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Development of oxidative stress in fructose-induced hypertension rats".
- XLIX Annual Scientific Meeting, Argentine Society of Clinical Investigation (SAIC), Argentina. "Superoxide anion induces endothelial damage in aortic coarctated rats".
- 2003: XIV Annual Scientific Meeting, Argentine Council of Hypertension, Argentina. "Angiotensin II stimulates superoxide production through AT1 receptor".
- XLVIII Annual Scientific Meeting, Argentine Society of Clinical Investigation (SAIC), Argentina. "Losartan diminishes oxidative stress in liver and kidney of spontaneously hypertensive rats".

Professional Organizations

American Heart Association (AHA).

2020- 2025: Member.

American Association for Cancer Research (AACR).

2013-2015: Associate Member.

Argentine Council of Hypertension (CAHTA).

2005-present: Full Member.

International Society for Stem Cell Research (ISSCR).

2008-2009: Associate Member.

Pharmacist License

2001-present: Ministry of Health. Government of Argentina. Buenos Aires.