

Mary L. Garcia-Cazarin, MS, PhD

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SUMMARY OF QUALIFICATIONS

PhD scientist with over ten years of experience working at the intersection of biomedical research and policy with expertise in pharmacology, toxicology, physiology and regulatory science. Experienced in developing careers of scientists through outreach activities targeting underrepresented groups and creating partnerships with key players to prepare a diverse STEM workforce.

PROFESSIONAL EXPERIENCE

Scientific Advisor, Tobacco Regulatory Science Program, Office of Disease Prevention, Office of the Director, *National Institutes of Health, MD* **2014-present**
AAAS Science & Technology Policy Fellow, Office of Dietary Supplements, Office of the Director, *National Institutes of Health, MD* **2012-2014**
Postdoctoral Fellow, *University of Kentucky, KY* **2007-2012**
Faculty, Department of Biological Sciences, *Eastern Kentucky University, KY.* **2007-2012**
Doctoral Graduate Student, *University of Kentucky, KY* **2007-2012**
SACNAS Volunteer, *Santa Cruz, CA.* **2008-present**

- Served as an elected Board member for 3 years (2015-2017).
- Bilingual spokesperson for the organization.
- Contributed to numerous reports, outreach and mentoring activities.
- Represented the organization in high level meetings with key leaders in the areas of diversity and inclusion in STEM.

EDUCATION

- **PhD, Pharmacology**, *University of Kentucky, Lexington, KY* **2001-2007**
- **MS, Biology**, *James Madison University, VA* **1998-2000**
- **BS, Pharmaceutical Chemistry**, *Universidad Veracruzana, Veracruz, Mexico* **1992-1998**

SELECTED AWARDS

- Recipient of the 2020 Ruth L. Kirschstein Mentoring Award. NIH Director's Award.
- Spokesperson for the National SACNAS Conference. Salt Lake City, Utah (October 2017), San Antonio, Texas (October 2018)

SELECTED APPOINTMENTS

- **Member of the AAAS S&TP Fellowship Advisory Committee** **2020-present**
- **Peer Reviewer: AAAS S&TP Fellowship** **2016-present**
- **SACNAS NIH Chapter, NIH, MD** **2013-present**
- **SACNAS Elected Board Member, Santa Cruz, CA** **2015-2017**
- **Women in Physiology Committee, American Physiological Society, MD** **2012-2016**

SELECTED LEADERSHIP TRAINING

- **Participant**, Cement Extramural Leadership Institute (CELI) Training Program, *NIH, MD* **2020**
- **Participant**, NIH Mid-leadership Training, *NIH, MD* **2018**
- **Participant**, HHMI-Advanced Leadership Institute, *SACNAS, ChevyChase, MD* **2017**
- **Participant**, Advanced Leadership Institute, *SACNAS Annual Conference, Los Angeles, CA* **2014**
- **Participant** Linton-Poodry Summer Leadership Institute, *SACNAS, Washington, DC* **2011**

SELECTED SPEAKING ENGAGEMENTS

- **Panelist** at multiple outreach activities in the DC-VA-MD area **2012-present**
- **Keynote Speaker**, SACNAS Leadership Institute **2018**
- **Keynote Speaker**, Distinguished Alumni Day, *James Madison University, VA* **2016**
- **Moderator**, Importance of Mentor Relationships, *NIH, MD* **2014**

PEER REVIEWED PUBLICATIONS

- Torres-Castillo, N., Silva-Gómez J.A., Campos-Perez, W., Barron-Cabrera, E., Hernandez-Cañaveral, I., Garcia-Cazarin, M., Marquez-Sandoval, Y., Gonzalez-Becerra, K., Barron-Gallardo, C., Martinez-Lopez, E. (2018) High Dietary ω -6: ω -3 PUFA Ratio Is Positively Associated with Excessive Adiposity and Waist Circumference. *Obes Facts*. 2018;11(4):344-353.
- Gonzalez-Becerra, K., Ramos-Lopez, O., Garcia-Cazarin, M.L., Barron-Cabrera, E., Panduro, A., Martinez-Lopez, E. (2018) Associations of the lipid genetic variants Thr54 (FABP2) and -493T (MTTP) with total cholesterol and low-density lipoprotein cholesterol levels in Mexican subjects. *J Int Med Res*. 2018 Apr;46(4):1467-1476
- Garcia-Cazarin M.L., Mandal R.J., Grana R., Wanke K.L., Meissner H.I. (2018) Host-agent-vector-environment measures for electronic cigarette research used in NIH grants. *Tobacco Control*, Jan 2018.
- Neufer, P.D., Bamman, M.M., Muoio, D.M., Bouchard, C., Cooper, D.M, Goodpaster, B.H., Booth, F.W., Kohrt, W.M., Gerszten, R.E., Mattson, M.P, Hepple, R.T, Kraus, W.E., Reid, M.B., Bodine, S.C., Jakicic, J.M., Fleg, J.L., Williams, J.P., Joseph, L., Evans, M., Maruvada, .P, Rodgers, M., Roary, M., Boyce, A.T., Drugan, J.K., Koenig, J.I., Ingraham, R.H., Krotoski, D., Garcia-Cazarin, M.L., McGowan, J.A., Laughlin, M.R. (2015). Understanding the Cellular and Molecular Mechanisms of Physical Activity-Induced Health Benefits. *Cell Metabolism*. Jul 7;22(1):4-11
- Garcia-Cazarin, M. L., Wambogo, E. A., Regan, K. S., Davis, C. D. (2014) Dietary Supplement Research Portfolio at the National Institutes of Health (NIH), 2009-2011. *Journal of Nutrition*. In press.
- Dong, Xinton., Sumandea, C. A., Che, Y., Garcia-Cazarin, M. L., Zhang, J., Balke, C. W., Sumandea, M. P., Ge, Y. (2012) Augmented phosphorylation of cardiac troponin I in hypertensive heart failure. *Journal of Biological Chemistry* 287(2):848-57.
- Garcia-Cazarin, M. L., Gamboa, J. L., Andrade, F. H. (2011) Diaphragm mitochondria have lower intrinsic respiratory rates than mitochondria in limb muscles. *American Journal of Physiology, Regulatory Integrative and Comparative Physiology* 300(6):R1311-5.
- Garcia-Cazarin, M. L. †, Snider, N. N., Andrade, F. H. (2011) Mitochondrial isolation from skeletal muscle. *Journal of Visualized Experiments* 49. doi: 10.3791/2452.
- Sumandea, C. A., Garcia-Cazarin, M. L., Bozio, C. H., Sievert, G. A., Balke, C. W., Sumandea, M. P. Cardiac troponin T: a sarcomeric AKAP, tethers protein kinase A at the myofilaments (2011) *Journal of Biological Chemistry* 286(1):530-41.
- Gamboa, J. L., Garcia-Cazarin, M. L., Andrade, F. H. (2011) Chronic hypoxia increases insulin-stimulated glucose uptake in mouse skeletal muscle. *American Journal of Physiology, Regulatory Integrative and Comparative Physiology* 300(1):R85-91.
- Garcia-Cazarin, M. L., Fisher, T.M., Andrade, F.H. (2010) Glucose uptake in rat extraocular muscles: effect of insulin and contractile activity. *Investigative Ophthalmology & Visual Science* 51(12):6364-8.
- Garcia-Cazarin, M. L., Duke, L. S., Sumandea, C. A., Sievert, G., Balke, C. W., Morimoto, S., Sumandea, M. P. (2010) Cardiomyopathy-causing deletion K210 in cardiac troponin T affects phosphorylation propensity of sarcomeric proteins. *Journal of Molecular and Cellular Cardiology* 48(5):934-42. #Equal contribution
- Sumandea, M., Vahebi, S., Sumandea, C. A., Garcia-Cazarin, M. L., Staidle, J., Homsher, E. (2009) Impact of Cardiac Troponin T N-terminal Deletion and Phosphorylation on Myofilament Function. *Biochemistry* 48(32):7722-31.
- Garcia-Cazarin, M. L., Smith, J. L., St Clair, D. K., Piascik, M. T. (2008) The Alpha1D-Adrenergic Receptor Induces Vascular Smooth Muscle Apoptosis via a p53-Dependent Mechanism. *Molecular Pharmacology* 74(4):1000-7.
- Garcia-Cazarin, M. L., Smith, J. L., Olszewski, K. A., McCune, D. F., Simmerman, L. A., Hadley, R. W., Kraner, S. D., Piascik, M. T. (2008) The alpha1D-adrenergic receptor is expressed intracellularly and coupled to increases in intracellular calcium and reactive oxygen species in human aortic smooth muscle cells. *Journal of Molecular Signaling* 3(1):6.
- Monroe, J. D., Garcia-Cazarin, M. L., Poliquin, K. A., Aivano, S. K. (2003) Antisense Arabidopsis Plants Indicate that Apoplatic Alpha-xylosidase and Alpha-glucosidase are Encoded by the Same Gene. *Plant Physiology and Biochemistry* 41:877-85.

