

Lynell Martinez, Ph.D.

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Education:

- 1995 – 2001 Ph.D. Physiology and Biophysics, University of Miami
Identification of subdomains in the F- and G- helices of bacteriorhodopsin that regulate the conformational transitions of the protonation mechanism
- 1990 – 1994 B.S. Microbiology and Molecular Neuroscience, University of Florida

Teaching experience

- 2022 – present Covenant College, Lookout Mountain, GA
- Human Anatomy and Physiology, College Physics
- 2001 – 2022 Westminster Christian High School, Miami, FL
- AP Research, AP Biology, AP Chemistry, AP Physics B and C, Biology, Chemistry, Physics, Organic Chemistry, Anatomy and Physiology
- 1996 – 2000 University of Miami, Miami, FL
- Graduate teaching assistant for medical school physiology courses (neuro, cardiovascular, renal, gastrointestinal, and endocrine)

Publications:

- Martinez LC, Thurmond RL, Jones PG, Turner GJ. (2002) Subdomains in the F and G helices of bacteriorhodopsin regulate the conformational transitions of the re-protonation mechanism. *Proteins: Structure, Function, and Genetics*. 48 (2), 269-282.
<https://doi.org/10.1002/prot.10158>.
- Martinez LC, Turner GJ. (2002) High-throughput screening of bacteriorhodopsin mutants in whole cell pastes. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1564 (1), 91-98.
[https://doi.org/10.1016/S0005-2736\(02\)00406-6](https://doi.org/10.1016/S0005-2736(02)00406-6)
- MacLennan AJ, Gaskin A, Vinson E, Martinez, L (1996) Ciliary neurotrophic factor receptor α mRNA in NB41A3 neuroblastoma cells: Regulation by cAMP. *European Journal of Pharmacology*. 295: 103-108