

POSGRADO

EN CIENCIAS QUÍMICO BIOLÓGICAS

"Incorporados al Programa Nacional de Posgrados de Calidad"



Dra. Laura Cristina Berumen Segura

Profesora investigadora

SNI Nivel 1 (vigencia 2023)

Perfil PRODEP (vigencia 2027)

Formación Académica:

Doctorado en Ciencias Biomédicas, UNAM

Maestría en Ciencias (Neurobiología), UNAM

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QUÍMICA BIOMOLECULAR

Fisiología de Receptores

Líneas de Investigación

- Estudio de la modulación reostática de la señalización por neurotransmisores, hormonas y comunicación paracrina en los distintos procesos biológicos

Formación de recursos humanos:

Nivel	En proceso	Terminada
Licenciatura	1	9
Maestría	1	8
Doctorado	2	3

Publicaciones seleccionadas

- Martínez-Rojo E, **Berumen LC**, García-Alcocer G, Escobar-Cabrera J. The Role of Androgens and Androgen Receptor in Human Bladder Cancer. *Biomolecules*. 2021; 11(4):594. doi: [10.3390/biom11040594](https://doi.org/10.3390/biom11040594)
- Becerra E, Aguilera-Durán G, **Berumen L**, Romo-Mancillas A, García-Alcocer G. Study of Endogen Substrates, Drug Substrates and Inhibitors Binding Conformations on MRP4 and Its Variants by Molecular Docking and Molecular Dynamics. *Molecules*. 2021 Feb 17;26(4):1051. doi: [10.3390/molecules26041051](https://doi.org/10.3390/molecules26041051).



3. Martínez-Rojo E, Cariño-Cortés R, **Berumen LC**, García-Alcocer G, Escobar-Cabrera J (2020) Stevia eupatoria and Stevia pilosa extracts inhibit the proliferation and migration of prostate cancer cells. *Medicina (Kaunas)*. 2020; 56(2):90 doi:[10.3390/medicina56020090](https://doi.org/10.3390/medicina56020090).
4. Pech-Pool S, **Berumen LC**, Martínez-Moreno CG, et al. (2020) Thyrotropin-Releasing Hormone (TRH) and Somatostatin (SST), but not Growth Hormone-Releasing Hormone (GHRH) nor Ghrelin (GHRL), Regulate Expression and Release of Immune Growth Hormone (GH) from Chicken Bursal B-Lymphocyte Cultures. *Int J Mol Sci*. 2020;21(4):E1436. Published 2020 Feb 20. doi:[10.3390/ijms21041436](https://doi.org/10.3390/ijms21041436)
5. Becerra E, **Berumen LC**, García-Gasca T, Escobar J, Moreno U, García-Alcocer G (2020). Antiproliferative and apoptotic interaction between azathioprine and N-acetylcysteine in acute lymphoblastic leukemia Jurkat cells. *Synergy*. 2020 Volume 10, 2020, 100061
6. Rodríguez-Cruz A, Romo-Mancillas A, Mendiola-Precoma J, Escobar-Cabrera JE, García-Alcocer G, **Berumen LC** (2020) Effect of valerianic acid on neuroinflammation in a MPTP-induced mouse model of Parkinson's disease. *IBRO Rep*. 2019 Dec 17;8:28-35. doi: [10.1016/j.ibror.2019.12.002](https://doi.org/10.1016/j.ibror.2019.12.002).
7. Mendoza-Santiago A, Becerra E, Garay E, Bah M, Berumen-Segura L, Escobar-Cabrera J, Hernández-Pérez A, García-Alcocer G. Glutamic Acid Increased Methotrexate Polyglutamation and Cytotoxicity in a CCRF-SB Acute Lymphoblastic Leukemia Cell Line. *Medicina (Kaunas)*. 2019 Nov 26;55(12):758. doi: [10.3390/medicina55120758](https://doi.org/10.3390/medicina55120758).
8. Mendieta I, Nunez-Anita RE, Pérez-Sánchez G, Pavón L, Rodríguez-Cruz A, García-Alcocer G, **Berumen LC** (2018) Effect of A549 neuroendocrine differentiation on cytotoxic immune response. *Endocr Connect*. Pii: EC-18-0145. Doi: [10.1530/EC-18-0145](https://doi.org/10.1530/EC-18-0145).
9. Padilla KM, Quintanar-Stephano A, López-Vallejo F, **Berumen LC**, Miledi R, García-Alcocer G (2018) Behavioral changes induced through adenosine A2A receptor ligands in a rat depression model induced by olfactory bulbectomy. *Brain Behav*. 8(5):e00952.
10. Mendiola-Precoma J, Padilla K, Rodríguez-Cruz A, **Berumen LC**, Miledi R, García-Alcocer G (2017) Theobromine-induced changes in A1 Purinergic receptor gene expression and distribution in a rat brain alzheimer's disease model. *J Alzheimers Dis*. 55(3):1273-1283.
11. Mendiola-Precoma J, **Berumen LC**, Padilla K, García-Alcocer G. (2016). Therapies for prevention and treatment of Alzheimer's disease. *BioMed Res. International*. 2016(2589276):1-17.