MSc. Nidia Beltrán

PhD

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About me

I'm a PhD researcher in Biomedicine, Bioinformatics and Data Science, focused in omics analysis of cancer and chronic-degenerative diseases

Skills

- Advanced knowledge in R and Bash shell scripting
- Intermediate knowledge in Python, Perl, Git
- Analysis of Next Generation Sequencing Data
- Molecular docking & Molecular Protein modeling
- Biochemistry, molecular biology, BigData and AI
- Languages: Spanish (Native), English (Advance)
- Mendeley Advisor

Education

2006-2010 Bachelor in Biology, México — Universidad Autónoma del Estado de Morelos

2013-2015 Master in Mol. Medicine, México — Universidad Autónoma del Estado de Morelos

2016 - 2021 PhD in Biochemistry, México — Universidad Nacional Autónoma de México

Experience

Osteosarcoma Biomarkers Identification — 2016–Present

Working on Omics Analysis pipelines for metastasis osteosarcoma biomarkers. Responsibilities provided include: implementation of RNA sequencing analysis pipelines for cancer diagnostics and prognostics. Mentor: Prof. Manuel Rivera, Ph.D.

Novel Bioactive Compund Identification — 2013-2015

Worked on the project: Effect of bioactive compounds on Voltage-Gated Calcium Channels through molecular docking analysis. Responsibilities provided include: algorithm implementation for automatized docking analysis. Mentor: Prof. Manuel Rivera, Ph.D.

Publications

1. Von Son, F. W., Ceballos, G. R., Rivera, H. M., Larios, V. M., Beltran-Hernandez, N. E., Beltran, R., Maciel, R., & Ascencio, J. A. (2017). Smart genetics for smarter health-an innovation proposal to improve wellness and health care in the cities of the future. *2017 International Smart Cities Conference, Isc2 2017*. https://doi.org/10.1109/ISC2.2017.8090837

2. Ortiz-Soto, M. E., Porras-Domínguez, J. R., Rodríguez-Alegría, M. E., Morales-Moreno, L. A., Díaz-Vilchis, A., Rudiño-Piñera, E., Beltrán-Hernandez, N. E., Rivera, H. M., Seibel, J., & López Munguía, A. (2020). Implications of the mutation S164A on Bacillus subtilis levansucrase product specificity and insights into protein interactions acting upon levan synthesis. *International Journal of Biological Macromolecules*. https://doi.org/10.1016/j.ijbiomac.2020.06.114

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