Melissa C. Alegría Arcos, Bioinformatics Engineer, PhD(c).
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EDUCATION

Currently	PhD(c) in Science, Biophysics and Computational Biology. Universidad de Valparaíso, Chile
2013	Bioinformatics Engineering – Universidad de Talca, Chile

PRINCIPAL POSITIONS HELD

2019 – Present	Founder & CEO DrugDevs.
2017 - 2019	Bioinformatics Engineering, Drug Development Group, uBiome Chile.
2012 - 2015	Research Assistant. Center for Bioinformatics and Integrative Biology, UNAB, Santiago, Chile.

TEACHING

Mar '13 – Dec '15	Teaching Assistant –Universidad Andrés Bello, Santiago, Chile. Courses taught included: Bioinformatics (biotechnology engineering students), structural bioinformatics (biochemistry and biotechnology engineering students), computer architecture (bioinformatics engineering students) and data mining (bioinformatics engineering students).
Mar '11 – Aug '11	Teaching Assistant – Universidad de Talca, Talca, Chile. All courses taught to bioinformatics engineering students: Introduction to Bioinformatics, Bioinformatics I, Bioinformatics II, and Application of Molecular Simulation to Biological Systems.

SELECTED PUBLICATIONS (RESEARCH)

- Vivek Sharma, Osvaldo Yañez, Melissa Alegría-Arcos, Ashish Kumar, Ramesh C Thakur, Plinio Cantero-López (2020). A physicochemical and conformational study of co-solvent effect on the molecular interactions between similarly charged protein surfactant (BSA-SDBS) system. The Journal of Chemical Thermodynamics.

- M Moreno, A Zacarias, A Porzel, L Velasquez, G Gonzalez, M Alegría-Arcos, F Gonzalez-Nilo, EKU Gross.(2018) IR and NMR spectroscopic correlation of enterobactin by DFT. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.

- Arias-Darraz L, Cabezas D, Colenso CK, Alegría-Arcos M, Bravo-Moraga F, Varas-Concha I, Almonacid DE, Madrid R, and Brauchi S. (2015) The cloning of a TRP ion channel from the single-celled alga Chlamydomonas reinhardtii reveals the robustness of TRP channel architecture. The Plant Cell.

- Ipinza, F., Collao, B., Monsalva D., Bustamante, V. H., Luraschi, R., Alegría-Arcos, M., Almonacid, D. E., Aguayo, D., Calderón, I. L., Gil, F., Santiviago, C. A., Morales, E. H., Calva, E., Saavedra, C. P. (2014). Participation of the Salmonella OmpD porin in the infection of RAW264.7 macrophages and BALB/c mice. PLoS One.

- Ravanal, M. C., Alegría-Arcos, M., Gonzalez-Nilo, F. D., & Eyzaguirre, J. (2013). Penicillium purpurogenum produces two GH family 43 enzymes with ß-xylosidase activity, one monofunctional and the other bifunctional: Biochemical and structural analyses explain the difference. Archives of biochemistry and biophysics.

PUBLICATIONS (PATENT)

- Zachary Apte, Jessica Richman, Daniel Almonacid, Valeria Márquez, Ingrid Araya, Melissa Alegria, Mario Saavedra, Luis Gomez, Janyra Espinoza, Javier Gimpel, Eduardo Morales, Rodrigo Ortiz. (2019) Rieske-type oxygenase/reductase targeted drugs for diagnostic and treatment of diseases.

- Zachary Apte, Jessica Richman, Daniel Almonacid, Melissa Alegria, Valeria Marquez, Eduardo Morales, Rodrigo Ortiz, Janet Torres, Paulo Covarrubias, Javier Gimpel, Ingrid Araya. (2018). Therapeutic & diagnostics compositions targeting toll-like receptors and methods thereof.

HONORS AND AWARDS

2019	DrugDevs SpA selected to participate The S Factory Program (TSF-10) of start-up Chile, CORFO.
2017	National Ph.D Scholarship CONICYT Chile.
2016	Best poster in CINV Annual Meeting, Valparaíso, Chile.
2015	Best poster in iCBSM (First International Conference in Bioinformatics, Simulations and Modeling), Talca, Chile.
2015	Winner of the 2nd Competition R&D – "APLICA TU IDEA", Santiago, Chile.
2010	Scholarship for Academic Merit, School of Bioinformatics Engineering, Universidad de Talca, Talca, Chile.