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60(155,5) Last Updated on June 6, 2017

J.Sebastian Paez

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1 Education

1.1 Purdue University

PULSE - PURDUE INTERDISCIPLINARY LIFE SCIENCE Ph.D

2016-Current | West Lafayette, IN

1.2 Universidad Nacional

BS IN BIOLOGY 2010 - 2016 | Bogota, COL

2 Select Coursework

2.1 Graduate Level Courses

Macromolecules (In Progress) Computing for Life Sciences (In Progress) Membrane Biophysics Systems Biology

2.2 Undergraduate

Cell Biology
Advanced Cell Biology
Molecular Biology of The Cell
Molecular Biology
Biochemistry
Biophysics
Genetics
Animal Physiology
Advanced Animal Physiology

2.3 Independent

Bioinformatics Data Visualization Machine Learning R Programming Bash

3 Skills

3.1 Techniques

Proficient:

Cell Culture • Cloning • Kinase Assay LC-MS/MS • PCR • Western Blot Familiar: H&E Stain • Fluorescent Probing • MTT Transient Transfection •

3.2 Languages

B2+:

4 Research Experience

GRUPO DE INVESTIGACION EN HORMONAS (GIH) | AUXILIARY

RESEARCH STUDENT - CELL CULTURE COORDINATOR
June 2013 - Aug 2015 | Bogota, COL

- Recieved training in several commonly used techniques in biochemistry.
- Assisted doctoral candidate Susana Novoa in a project that implied the
 measurement of secreted metalloproteases in mammalian cell culture
 conditioned medium after stimulation with a particular growth hormone using
 in-gel kinase assays and quantitative image analysis.
- Recurring exposer and participant in weekly article dissertations and results expositions.
- Assisted Dr. Umana in the supervision and mantainance of the cell culture room inside the lab, among other coordination activities.

TAO LAB | VISITING UNDERGRADUATE SCHOLAR - ROTATION STUDENT Aug 2015 - Dec 2015 | Aug 2016 - Oct 2016 | West Lafayette, IN

- Assisted Doctoral candidate Justine Arrington in a project based on the recognition of substrates to a particualr kinase, making use of in-vitro assays and shotgun proteomics as an approach.
- Assisted in the expression and tandem affinity purification of several recombinant proteins in E.coli.
- Carried out the merging and comparisson of phosphoproteomics data sets acquired in the lab with public data sets with Doctoral candidate I-Hsuan (Blair) Chen.
- Collaborated with Doctoral Candidate Chuan-Chih Hsu in the computational analysis and data visualization of tandem mass spectrometry data to estimate phosphopeptide identification rates.

TRADER LAB | ROTATION STUDENT

Oct 2016 - Current | West Lafayette, IN

- Currently involved in the large scale expression and purification of several proteins for routine laboratory application.
- Currently attempting to purify the immunoproteasome complex by affinity chromatography of tagged sub-units.

5 Publications

Tao, A., Hsu, C., Xue, L., Wang, P., Paez, J.S., Zhou, Y., Zhu, J. (In Review) Estimate
phosphopeptide identification rate by tandem mass spectrometry. Journal of
the American Society of Mass Spectrometry.