

EFRAIN H. CEH PAVIA

Address: Ontario, Canada

LinkedIn: www.linkedin.com/in/efrain-ceh-pavia

Email: efrain.ceh@gmail.com

Phone: +1 437- 987-3596

TECHNICAL SKILLS

- **In vitro biochemical assays** using ITC, BLI (Octet), and ELISA.
- **Protein expression** from heterologous expression systems (Bacterial, Mammalian, and Insect), both in micro scale (less than 10 mL) to medium scale (10 L).
- **Protein purification** using chromatography (IMAC, IEC and SEC) in AKTA systems (FPLC).
- **Protein analysis** such as MALLS, SDS-PAGE, Mass Spectrometry (LC/MS), UV-VIS spectrophotometry, Fluorescence, and Western Blot.

ORGANIZATIONAL AND GENERAL SKILLS

- Ability to work collaboratively across different internal departments, both in large and startup environments.
- Accustomed to working towards team goals while keeping individual objectives.
- Experience managing projects individually or in collaboration.
- Presented findings in both academic and industrial settings.

PROFESIONAL EXPERIENCE

SCIENTIST

| **TREADWELL THERAPEUTICS**
TORONTO, ON, CANADA
November 2021 - Current

- Point of contact for the generation of antibody and antigens in the company.
- Routinely purified monoclonal antibodies for in vitro and in vivo studies.
- Selected humanized variants of a lead candidate by their expression, activity, and stability.

SCIENTIST II

| **GRIFOLS DIAGNOSTICS SOLUTIONS**
EMERYVILLE, CALIFORNIA, US
April 2019 - Nov 2020

- Project Leader for the expression and purification of various proteins to be used in diagnostic assays.
- Formed part of a three-person team that led the development of **Coronavirus** proteins, coordinating multiple areas of the research department.
- Obtained sufficient expression of a viral protein that had stopped progress of the project for more than one year.

POSTDOCTORAL RESEARCHER

| **UC SANTA CRUZ**
SANTA CRUZ, CALIFORNIA, US
Dr. Carrie Partch, Sept 2017 - April 2019

- Identified new sites of post-translational modifications in circadian proteins using mass spectrometry (LC/MS).
- Evaluated the effects of protein acetylation on protein-protein interactions using fluorescence polarization and BLI (Octet).

POSTDOCTORAL | UNIVERSITY OF MANCHESTER
RESEARCHER MANCHESTER, UK
Dr. Lydia Tabernero, Jan 2015 - Nov 2016

- Developed a reliable protocol for the co-expression and purification of recombinant protein complexes (2-4 proteins) from bacteria.
- Determined the crystal structure of a two-protein complex from *Candida albicans* for use in antifungal drug design.

EDUCATION	PhD in BIOCHEMISTRY UNIVERSITY OF MANCHESTER	2014
	B. Eng. CHEMICAL ENGINEERING UADY, MEXICO	2009
	B. Eng. CHEMICAL ENGINEERING ENSCCF, FRANCE	2007

PUBLICATIONS	<ul style="list-style-type: none">• Ceh-Pavia E and Partch CL. <i>Regulating behavior with the flip of a translational switch</i>. PNAS 2018 Dec 13. COMMENTARY• Ceh-Pavia E, Ang SK, Spiller M, Lu H. <i>The disease-associated mutation of the mitochondrial sulphydryl oxidase Erv1 impairs cofactor binding in the catalytic intermediates</i>. Biochem J. 2014 Dec 15;464(3):449-59.• Ceh-Pavia E, Spiller M, Lu H. <i>Folding and biogenesis of mitochondrial small Tim proteins</i>. Int J Mol Sci. 2013 Aug 13;14(8):16685-705. (Review)• Spiller M, Ang SK, Ceh-Pavia E, Fisher K, Wang Q, Rigby S, Lu H. <i>Identification and characterization of Mitochondrial Mia40 as an iron-sulfur protein</i>. Biochem J. 2013 Oct 1;455(1):27-35. (+podcast)• Durigon R, Wang Q, Ceh-Pavia E, Grant C, Lu H. <i>Cytosolic thioredoxin system facilitates the import of mitochondrial small Tim proteins</i>. EMBO Rep. 2012 Oct;13(10):916-22.
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