**Ivan E. Perez**

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**Summary of Qualifications**

* Scientist with over two years of industrial organic synthesis, and materials chemistry experience seeking to capitalize upon strong qualitative and analytical skills to transition to an analytical role in a startup.
* Improved a 3-step one-pot synthesis of novel small molecule treating agent from 36% to 85%, for environmentally safe an cost effective production, for tire tread wear and rolling resistance applications.
* Actively history of collaborating with multiple groups of varying chemical knowledge levels to produce data ranging from target molecule efficacy to rubber tread-wear data.

**Professional Experience**

**Research and Development (Élan Chemical Company)***—Synthetic Organic Chemist* **December 2015—March 2016**

Chemist assisting Director of R&D in development of viable production processes for naturally derived aromatics.

* Synthesized naturally derived precursors for application in pilot scale synthesis of natural aromatics.
* Evaluated tanker material quality by using internal standard methods in GC/MS.
* Worked towards purification methods of crude precursors in synthesis of natural aromatics.

**Performance R&D (Cabot Corporation)** –*Research Associate* **June 2014—October 2015**

Chemist responsible for research in CB surface modification for tire rolling resistance and tread wear in rubber tires.

* Optimized syntheses of novel treating agents potentially leading to cost effective CB treatment methods.
* Probed oxidation methods of carbon blacks for kilogram and lab scale preparations.
* Conducted one-off experiments of target syntheses, CB treatment, and associated analytical sample preparation.
* Collaborated with internal and external analytical and testing departments to secure relevant data for managers.
* Designated and maintained safety parameters for novel experiments and equipment as LabRAT’s and LeRAT’s.

**Beeler Research Group (Boston University Chemistry Department)**—*Research Assistant* **September 2012—May 2014**

Undergraduate research applying organic synthesis to explore the medicinal chemistry of a PrPSc proliferation inhibitor.

* Sole technician responsible for synthesis of target molecule and related analogues.
* Collaborated with internal biochemists and Harris group at BUMC towards design of pull-down analogues.
* Regularly presented research updates formally at group meetings and informally to P.I. at subgroup.

**Education**

B.A. in Chemistry with ACS certification, Boston University **September 2010—May 2014**

*Graduate Coursework:* (CH644) Medicinal Chemistry, (CH741) NMR Spectroscopy, (CH641) Organic Reaction Mechanisms, (CH631) Inorganic Coordination Chemistry, (CH643) Synthetic Methods of Organic Chemistry.

**Technical Skills**

**Operating Systems:** Microsoft Windows, Linux(Ubuntu), Mac OSX

**Office Tools:** Microsoft Office Suite, Python, (learning SQL[Oracle SQL Developer])

**Scientific Software:** iLabber, Scilligence and ArtusLabs electronic lab notebooks(ELN), ACD/Labs spectroscopy suite, MestreNova, Schrödinger Jaguar and Maestro, Spartan, Gaussian, Cambridgesoft ChemBiooffice Suite(Chemdraw), ChemAxon cheminformatics suite, Waters MassLynx, Origin Lab, Pfeiffer Vacuum proprietary MS software, SciFinder.

**Laboratory:**

* Four years of experience designing and executing organic synthesis experiments in support of product leads in materials chemistry, drug discovery and asymmetric methodology development.
* Engineering experience with design and maintenance of 10L reactor, lab scale tube furnace with attached GC-MS.
* Set parameters and compiled safety documentation of 10L reactor, general organic syntheses, and CB treatment.
* Experience carrying out lab scale to sub kilogram scale reactions and purifications.
* Experience with advanced analytical techniques including NMR (Heteronuclear, 2D experiments), IR, UV/vis, LCMS/UPLC, GCMS, CD, DSC, TGA.
* Experience with Swagelok and Unistrut assembly and modification.
* Well versed in a broad range of reaction mechanisms, and practical laboratory procedures.
* Demonstrated aptitude for practical, synthesis improvement, and analytical skills.
* Knowledge of GMP, GLP and FDA regulations.

**Awards**

1. Undergraduate Research Opportunity Program Faculty Matching Grant **January 2013**

2. Undergraduate Research Opportunity Program Student Research Award **May 2013**

**Presentations**

1. Initial Probing into Mechanism of Action of PrPSc Proliferation Inhibitor. Perez, I.; Herres, J.; Harris, D.; Beeler. A.

Undergraduate Research Symposium, Boston University, Boston, MA October 17, 2012.

**References**

1. Joshua Wimble—Former Colleague in Performance R&D, *Senior Research Associate* at Cabot Corporation

(Josh.wimble@cabotcorp.com, 978-670-6143)

2. Aaron B. Beeler—Undergraduate P.I., *Assistant Professor of Chemistry* at Boston University

(Beelera@bu.edu, 617-358-3487)

3. Fred Schreiber—Supervising Manager, *Director of Research and Development* at Elan Chemical Company

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