

Ricardo Hugh Stephen, PhD

Summary

A PhD with extensive biology and chemistry knowledge and 13 years college and university chemistry teaching experience

Teaching Experience

Responsible for the design of lectures and all student materials, classroom management, the training of students in proper laboratory technique and guidance of students through laboratory experiments

University of Colorado at Boulder

Associate Teaching Professor, August 2022 – Present

- Biochemistry 2700. Foundations of Biochemistry (3 sections)
- Biochemistry 4611. Principles of Biochemistry (5 sections)

Senior Instructor, August 2019 – August 2022

- Biochemistry 2700. Foundations of Biochemistry (6 sections)
- Biochemistry 4611. Principles of Biochemistry (12 sections)

Instructor, August 2013 – July 2019

- Chemistry 4611. Survey of Biochemistry (18 sections)
- Chemistry 4700. Foundations of Biochemistry (6 sections)
- Chemistry 4711. General Biochemistry 1 (4 sections)
- Chemistry 4720. Metabolism and Human Disease (1 section)
- Chemistry 4731. General Biochemistry 2 (3 sections)

Lecturer, January 2010 – July 2013

- Chemistry 1021. Introductory Chemistry (1 section)
- Chemistry 1031. Environmental Chemistry 2 (1 section)
- Chemistry 4611. Survey of Biochemistry (8 sections)

Teaching Assistant, 2001-02, 2010

- Chemistry 1111. General Chemistry (4 sections)
- Chemistry 1251. Advanced General Chemistry (2 sections)

Metropolitan State University of Denver

Affiliate/Part-Time Instructor, August 2009 – December 2011

- Chemistry 1800. General Chemistry (1 section)
- Chemistry 1100. Introductory Chemistry (2 sections)
- Chemistry 1850. General Chemistry Laboratory (6 sections)
- Chemistry 1150. Introductory Chemistry Laboratory (5 sections)
- Chemistry 3010. Analytical Chemistry Laboratory (2 sections)

Education and Research Experience

Metropolitan State University of Denver

Teaching Licensure Program, 2009

Have completed ten credit hours towards secondary school teaching license with endorsement in science, including educational psychology and educational philosophy.

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Education and Research Experience (continued)

University of Colorado at Boulder

Postdoctoral Researcher, 2008-2009

Studied antibody, surfactant, and container interactions for protein therapeutics. Advisor: Dr. Theodore W. Randolph

University of Colorado at Boulder

PhD in Biochemistry, 2008

Thesis title: "Structural characterization of guanylate cyclase activating proteins, Ca²⁺-dependent regulators of retinal guanylate cyclase." Advisor: Dr. Marcelo C. Sousa

University of Waterloo, Canada

BSc in Biochemistry, 2001

Thesis title: "Structural characterization of hypothetical protein TM0979 from *Thermotoga maritima*." Advisor: Dr. Elizabeth Meiering

Publications

Stephen, R., Palczewski, K., Sousa, M.C. (2008) Ca²⁺-dependent regulation of phototransduction. *Photochem. And Photobiol.* *84*. 903-910

Stephen, R. (2008) Structural characterization of guanylate cyclase activating proteins, Ca²⁺-dependent regulators of phototransduction. (*PhD Thesis*) (2008)

Stephen, R., Bereta, G., Golczak, M., Palczewski, K., Sousa, M.C. (2007) Stabilizing function for myristoyl group revealed by the crystal structure of guanylate cyclase activating protein 1. A neuronal calcium sensor. *Structure* *15*. 1392-1402.

Stephen, R., Palczewski, K., Sousa, M.C. (2006) The crystal structure of GCAP3 suggests molecular mechanism of GCAP-linked cone dystrophies. *J. Mol. Biol.* *359*, 266-275.

Gaspar, J.A., Liu, C., Vassall, K.A., Meglei, G., **Stephen, R.**, Stathopolous, P.B., Pineda-Lucena, A., Wu, B., Yee, A., Arrowsmith, C.H., Meiering, E.M. (2005) A novel member of the YchN-like fold: solution structure of the hypothetical protein Tm0979 from *Thermotoga maritima*. *Protein Sci.* *14*. 216-223.

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Additional Work Experience

Neste Resins Canada

Technician, Cooperative education term May-August 2000
Produced and optimized formaldehyde resins for a variety of applications

Earth Sciences Department, University of Waterloo

Technician, Cooperative education term September-December 1999
Collected and prepared samples for groundwater contamination studies

BASF Canada Inc.

Technician, Cooperative education terms May-August 1998; January-April 1999
Produced and optimized polyurethane foams for a variety of applications

Agriculture Canada

Technician, Cooperative education terms January-April 1997; September-December 1997
Collected, compiled, and analyzed soil and crop data