

# Ricardo Hugh Stephen, PhD

## Summary

*A PhD with extensive biology and chemistry knowledge and 9 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**

Instructor, August 2013 – Present

- Chemistry 4611. Survey of Biochemistry (17 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 College of Denver**

*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 College 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

### **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, Ca<sup>2+</sup>-dependent regulators of retinal guanylate cyclase." Advisor: Dr. Marcelo C. Sousa

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## Education and Research Experience (continued)

### **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) Ca<sup>2+</sup>-dependent regulation of phototransduction. *Photochem. And Photobiol.* **84**. 903-910

**Stephen, R.** (2008) Structural characterization of guanylate cyclase activating proteins, Ca<sup>2+</sup>-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.**, Stathopoulos, 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.

## 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.