
ROSALYN JOHNSON, PhD

RPJ Scientific Communications

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SUMMARY OF QUALIFICATIONS

Scientific writer and editorial consultant with over 10 years experience developing well-written, on-time communications for government, academia, and the private sector. Knowledgeable in science-related academic and medical communications; experienced in the life sciences, biomedical sciences, medicine, healthcare and agriculture.

EDUCATION

Ph.D. in Cardiovascular and Respiratory Sciences **December 2008**
University of Calgary, Calgary, Alberta, Canada

B.Sc. in Honours Biology and Pharmacology (Co-op) **April 2003**
McMaster University, Hamilton, Ontario, Canada

PROFESSIONAL DEVELOPMENT

AMWA Essential Skills Workshops **October 2016**
Statistics for Medical Writers and Editors
Essential Ethics for Medical Communicators
Elements of Medical Terminology
Tables and Graphs

Medical Writing II: Promotional and Continuing Health Education **March 2016**

Writing in the Sciences Certificate, Stanford Online **November 2015**

PROFESSIONAL EXPERIENCE

Freelance Scientific Writer/Editorial Consultant and Owner **March 2013-present**
RPJ Scientific Communications, Hamilton, Ontario, Canada

- Specialize in writing and editing scientific content for government, academia and the private sector
- Provided technical writing services in support of a successful AgriInnovation funding proposal
- Crafted research reports to granting agencies that highlighted clients' research accomplishments
- Drafted a strategic report for Mushrooms Canada that guided industry decision making
- Edited scientific manuscripts for clarity, precision, and style to improve publication success
- Wrote blog posts for McMaster's Optimal Aging Portal aimed at providing high quality clinical evidence to the general public

- *Clients:* McMaster Optimal Aging Portal, Vineland Research and Innovation Centre, Mushrooms Canada, American Journal Experts, MDOnline, and individual academic scientists, physicians and graduate students

Freelance Scientific Manuscript Editor

June 2012-present

American Journal Experts, Durham, North Carolina, USA (worked remotely)

- Contributed to clients' publication success by ensuring clear, concise, publication-ready communication of scientific results
- Manuscripts were from a range of disciplines (from medicine to agriculture)

ACADEMIC/RESEARCH EXPERIENCE

Heart and Stroke Foundation Postdoctoral Fellow

May 2009-December 2010

Harvard Medical School, Boston, Massachusetts, USA

- Investigated the biochemical pathways involved in regulation of vascular endothelial cells, resulting in a peer-reviewed publication
- Authored a successful fellowship application to a prestigious Canadian granting institution
- Supervised undergraduate research students, participated in scientific manuscript preparation, presented research findings at interdepartmental seminars

Doctoral Research

September 2004-December 2008

University of Calgary, Calgary, Alberta, Canada

- Developed and used a broad range of scientific technologies and methods to elucidate the molecular mechanisms of blood pressure regulation
- Led lab meetings and gave research talks to diverse audiences
- Wrote an award-winning thesis and prepared several manuscripts for peer-review publication
- Authored numerous successful scholarship applications to prestigious Canadian granting institutions

Co-operative Education Student

January 2002-August 2002

Cardiome Pharma Corp., Vancouver, British Columbia, Canada

- Screened in-house compounds for anti-arrhythmic potential using patch-clamp electrophysiology, and determined the efficacy and toxicity of selected compounds *in vivo*
- Presented research findings to business and scientific teams

Co-operative Education Student

May 2001-August 2001

Health Canada, Bureau of Pharmaceutical Assessment, Ottawa, Ontario, Canada

- Screened Generic Drug Applications to determine the suitability of select drugs for sale in Canada
- Liaised with applicants to ensure that submissions met approval requirements

PUBLICATIONS

INDUSTRY REPORTS

1. Gap Analysis of the European Rose Value Chain from Breeding to the Final Consumer: Value Chain Interviews. Vineland Research and Innovation Centre, May 2015.

2. Gap Analysis of the Complete Value Chain for Ornamental Plant Products from Breeding to the Final Consumer in Both Domestic and Export Markets: Executive Summary. Vineland Research and Innovation Centre, May 2015.
3. Characterizing the Value, Market Size and Evolution, and Infrastructure Needs for the Profitable Production of World Crop Vegetables in Ontario: Final Report. Vineland Research and Innovation Centre, May 2014.
4. Identification and Analysis of Value-Added Opportunities for Canada's Mushroom Industry: Mushrooms Canada Strategic Report, May 2013.

PEER-REVIEWED PUBLICATIONS

1. Ahmed El-Yazbi, **Rosalyn P. Johnson**, Emma J. Walsh, Kosuke Takeya, Michael P. Walsh, William C. Cole. (2010). Pressure-dependent contribution of Rho kinase-mediated calcium sensitization in serotonin-evoked vasoconstriction of rat cerebral arteries. *Journal of Physiology*. 588: 1747-1762.
2. Connie N. Hess, Rujin Kou, **Rosalyn P. Johnson**, Gordon K. Li and Thomas Michel. (2009). ADP signaling in vascular endothelial cells: ADP-dependent activation of the endothelial isoform of nitric-oxide synthase requires the expression but not the kinase activity of AMP-activated protein kinase. *Journal of Biological Chemistry*. 284: 32209-32224.
3. **Rosalyn P. Johnson**, Morgan F. Hughes, David C. Schriemer, Emma J. Walsh, Michael P. Walsh and William C. Cole. (2009). Identification and functional characterization of protein kinase A-catalyzed phosphorylation of the potassium channel Kv1.2 at serine-449. *Journal of Biological Chemistry*. 284: 16562-16574.
4. **Rosalyn P. Johnson**, Ahmed El-Yazbi, Kosuke Takeya, Emma J. Walsh Michael P. Walsh and William C. Cole. (2009). Calcium sensitization via phosphorylation of the myosin phosphatase targeting subunit at threonine-855 by Rho-kinase contributes to the arterial myogenic response. *Journal of Physiology*. 587: 2537-2553.
5. Frances Plane, **Rosalyn P. Johnson**, Paul Kerr, William Wiehler, Kevin Thorneloe, Kuniaki Ishii, Tim Chen and William Cole. (2005). Heteromultimeric Kv1 channels contribute to myogenic control of arterial diameter. *Circulation Research*. 96: 216-224.
6. **Rosalyn P. Johnson**, Ita M. O'Kelly and Ian M. Fearon. (2004). System-specific oxygen sensitivity of the tandem pore domain potassium channel TASK-1. *American Journal of Physiology, Cell Physiology*. 286: C391-C397.
7. Stephen T. Brown, **Rosalyn P. Johnson**, Rhandi Senaratne, Ian M. Fearon. (2004). Amyloid beta peptides mediate physiological remodeling of the acute O₂ sensitivity of adrenomedullary chromaffin cells following chronic hypoxia. *Cardiovascular Research*. 64: 536-543.
8. **Rosalyn P. Johnson** and Ian M. Fearon (2003). GABA_B receptor activation augments TASK-1 in MAH cells and mediates autoreceptor feedback during hypoxia. *Biochemical and Biophysical Research Communications*. 312: 421-5.

CONSUMER HEALTH WRITING

1. **Rosalyn P. Johnson**. (2016, Oct 31). Acupuncture: An effective treatment for chronic headaches. <https://www.mcmasteroptimalaging.org/blog/detail/blog/2016/10/31/acupuncture-an-effective-treatment-for-chronic-headaches>.

PRESENTATIONS

"ADP Signaling in Vascular Endothelial Cells"

November 2009

Frontiers in Biomedical Science Seminar Series, Brigham Research Institute, Cardiovascular, Diabetes, and Metabolic Diseases Research Center, Boston, Massachusetts, USA

"Molecular Mechanisms Controlling Vascular Smooth Muscle Contractility"

November 2008

Thesis Seminar, Smooth Muscle Research Group, University of Calgary, Calgary, Alberta, Canada

"Characterization of a Novel Protein Kinase A Phosphorylation Site on Kv1.2" February 2007
Research in Progress, Smooth Muscle Research Group, University of Calgary, Calgary, Alberta, Canada

"Ca²⁺ Sensitization Pathways in Control of Cerebral Artery Myogenic Reactivity" November 2007
Research in Progress, Smooth Muscle Research Group, University of Calgary, Calgary, Alberta, Canada

"Vascular Smooth Muscle K_{DR} Modulation by Protein Kinase A" February 2006
Research in Progress, Smooth Muscle Research Group, University of Calgary, Calgary, Alberta, Canada

"Identification of Protein Kinase A Phosphorylation Sites on Kv Channels" April 2006
6th Annual Alpine Pharmacology Research Symposium, Banff, Alberta, Canada

"Molecular Composition and Functional of Kv channels in Vascular Smooth Muscle" March 2004
4th Annual Alpine Pharmacology Research Symposium, Banff, Alberta, Canada

AWARDS AND FELLOWSHIPS

Heart and Stroke Foundation of Canada Postdoctoral Fellowship July 2009-December 2010
Harvard Medical School, Boston, Massachusetts, USA

Top Graduate Thesis Award December 2008
Cardiovascular and Respiratory Sciences Graduate Program
University of Calgary, Calgary, Alberta, Canada

Alberta Heritage Foundation for Medical Research Scholarship February 2005-December 2008
University of Calgary, Calgary, Alberta, Canada

**Natural Sciences and Engineering Research Council of Canada
Canada Graduate Scholarship** September 2005-August 2007
University of Calgary, Calgary, Alberta, Canada

Biochemical Journal Young Investigator Award July 22-27, 2006
International Muscle Energetics Conference
Banff, Alberta, Canada

Oral Presentation Award April 12-16, 2006
6th Annual Alpine Pharmacology Research Symposium
Banff, Alberta, Canada

**Natural Sciences and Engineering Research Council of Canada
Postgraduate Scholarship** September 2003-August 2005
University of Calgary, Calgary, Alberta, Canada

Dean's Research Excellence Award September 2003-August 2005
University of Calgary, Calgary, Alberta, Canada

Dean's Entrance Award September 2003
University of Calgary, Calgary, Alberta, Canada

Jensen Medal (outstanding achievement in co-operative education)
McMaster University, Hamilton, Ontario, Canada

April 2003

**Natural Sciences and Engineering Research Council of Canada
Student Research Award**
McMaster University, Hamilton, Ontario, Canada

May 2003-September 2003

**Natural Sciences and Engineering Research Council of Canada
Industrial Student Research Award**
Cardiome Pharma Corp., Vancouver, British Columbia, Canada

January 2002-August 2002

PROFESSIONAL AFFILIATIONS

Member, American Medical Writers Association (AMWA)

Member, Editors' Association of Canada