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Work Experience

2008-present Assistant Professor

University of Texas Health Science Center- Houston
Department of Integrative Biology and Pharmacology

2004-2008 Postdoctoral research associate

The Salk Institute for Biological Studies, Marc Montminy, postdoctoral advisor

2003-2004 Postdoctoral fellow, Cancer Research Laboratory

University of California, Berkeley, G. Steven Martin, advisor

Education

1997-2003 University of California, Berkeley

Ph.D., Molecular and Cell Biology, May 2003

Regulation of Signaling and Transformation by Src and Ras

G. Steven Martin (Dissertation advisor), David Drubin, Gary Firestone, Loy Volkman

1993-1997 University of Illinois, Urbana-Champaign

B.S., Biology Honors, *Magna cum Laude*, May 1997

The angiotensin II type-2 (AT2) receptor attenuates tyrosine phosphorylation and activity of the N-methyl-D-aspartate receptor subtype 2A/B (NMDAR2A/B) through a protein tyrosine phosphatase

James Weyhenmeyer (Honors thesis advisor)

Awards and Honors

Muscular Dystrophy Association Career Development Award, 2008-present

Ruth Kirschstein Individual NRSA Postdoctoral Fellowship (NIH), 2006-2007

Howard Hughes Medical Institute Predoctoral Fellowship, 1998-2003

Helen E. Hess Award for Undergraduate Honors Thesis, 1997

Barry M. Goldwater Undergraduate Research Fellowship, 1996

Howard Hughes Medical Institute Undergraduate Fellowship, Spring and Summer, 1995

Publications

Berdeaux R, Goebel N, Banaszynski L, Takemori H, Wandless T, Shelton GD, and Montminy M. (2007) SIK1 is a class II HDAC kinase that promotes survival of skeletal myocytes. *Nat Med.* 13(5): 597-603. (Cover illustration)

Zhu Q, Krakowski AR, Dunham EE, Wang L, Bandyopadhyay A, **Berdeaux R**, Martin GS, Sun L, Luo K. (2007) Dual Role of SnoN in Mammalian Tumorigenesis. *Mol Cell Biol.* 27(1): 324-39.

Leuchtenberger S, Kummer MP, Kukar T, Czirr E, Teusch N, Sagi SA, **Berdeaux R**, Pietrzik CU, Ladd TB, Golde TE, Koo EH, and Weggen S. (2006) Inhibitors of Rho-kinase modulate amyloid-beta (Abeta) secretion but lack selectivity for Abeta42. *J Neurochem.* 96(2): 355-65.

Canettieri G, Koo SH, **Berdeaux R**, Heredia J, Hedrick S, Zhang X, and Montminy M. (2005) Dual role of the coactivator TORC2 in modulating hepatic glucose output and insulin signaling. *Cell Metab.* 2(5): 331-8.

Berdeaux RL^{*}, Díaz B^{*}, Kim LC, and Martin GS. (2004). "Active Rho is localized to podosomes induced by oncogenic Src and is required for their assembly and function." *J. Cell Biol.* **166**(3): 317-23. (*Authors contributed equally. Comment in *J. Cell Biol.* **166**(3): 305.)

Hofer F, **Berdeaux R**, and Martin GS. (1998). "Ras-independent activation of Ral by a Ca(2+)-dependent pathway." *Curr Biol.* **8**(14): 839-42.

Schelman WR, Kurth JL, **Berdeaux RL**, Norby SW, Weyhenmeyer JA. (1997). "Angiotensin II type-2 (AT2) receptor-mediated inhibition of NMDA receptor signaling in neuronal cells." *Brain Res Mol Brain Res.* **48**(2): 197-205.

Research Support

Muscular Dystrophy Association Career Development Award
MDA68640 (Berdeaux, PI)
1/1/2008-12/31/2010
The Role of CREB in skeletal muscle regeneration and hypertrophy

NIH/ NIDDK 1 F32 DK070502-01A2 (Berdeaux, PI)
04/01/2006-12/31/2007
Regulation of Hepatic Insulin Sensitivity by CREB
Revised: The role of CREB in skeletal muscle survival and regeneration

Abstracts and Invited Talks

Berdeaux, R. (2007) "CREB promotes skeletal muscle survival via induction of a class II HDAC kinase." BioCore Services New Technology Seminar, University of California, San Diego (invited talk).

Berdeaux R, N Goebel, L Banaszynski, H Takemori, T Wandless, GD Shelton, and M Montminy. (2007) "SIK1 is a class II HDAC kinase that promotes survival of skeletal myocytes." Gordon Research Conference on Myogenesis, Lucca, Italy (poster presentation).

Berdeaux R, B Díaz, L Kim and GS Martin. (2004) "Active Rho is localized to Src-induced podosomes and is required for their assembly and function." Meeting on Protein Phosphorylation and Cell Signaling, The Salk Institute, La Jolla CA (oral presentation).

Berdeaux R, L Kim, A Tu, and GS Martin. (2003) “Activation of RhoA by v-Src.” Beatson International Cancer Conference, Glasgow, Scotland (poster presentation).

Berdeaux R, A Tu, GS Martin. (2002) “Activation of RhoA by v-Src.” Meeting on Tyrosine Phosphorylation and Cell Signaling, The Salk Institute, La Jolla CA (oral presentation).

Teaching Experience and Development

Attendee, 2007 San Diego Lab Management Symposium

Two-day comprehensive lab management course for senior postdoctoral fellows

Supervisor of research assistants (N. Miller, 2008, N. Goebel, 2006; L. Kim 2003)

Supervisor of rotation students (Pagkapol Pongsawakul, 2007; Derek Joyce, 2005; Andrea Tu, 2001)

Private tutor in Biochemistry, University of California, Berkeley; 2002

Graduate Student Instructor, *MCB 110: General Biochemistry & Molecular Biology*
Instructors: Profs. Kathleen Collins, Eva Nogales, Qiang Zhou; Spring, 2000

Graduate Student Instructor, *MCB 130L: Cell and Developmental Biology Laboratory*
Instructors: Profs. Harry Rubin, Hsiao-Ping Moore, Rebecca Heald; Fall, 1999

Department and University Service

Member, Graduate Admissions Committee, Department of Molecular and Cell Biology, University of California, Berkeley, 2002

Delegate, Graduate Assembly, University of California, Berkeley, 2001-02

Chairperson, HHMI Undergraduate Student Advisory Board, University of Illinois, 1996-97