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Education

Ph.D Candidate in Biomedical Sciences, University of Texas MD Anderson Cancer Center,
estimated completion date: summer 2013
Dissertation: Functional analysis of limb-specific transcriptional enhancers in the mouse
Advisor: Richard R. Behringer Ph.D

B.S. in Molecular Biology, **B.S. in Geology**, Minor in Communications, 2005
Brigham Young University, Provo, UT

Professional training

A systems biology approach to understanding mechanisms of organismal evolution,
Pan American Advanced Studies Institute 2012; Montevideo, Uruguay

Research Assistant Intern, Astrobiology Summer Program, National Science Foundation-Research Experience for Undergraduates, July-August 2005
The Pennsylvania State University, State College, PA

Fellowships and Scholarships

2012 Genes & Development Hearst Foundation Student Research & Education Scholarship; University of Texas MD Anderson Cancer Center

2010 Tzu-Chi Foundation Scholarship for Excellence; University of Texas MD Anderson Cancer Center

2007-2009 National Institutes of Health Predoctoral Training Grant: T32 HD07325-24; University of Texas MD Anderson Cancer Center

2006-2010 Alumni Merit Scholarship; University of Texas MD Anderson Cancer Center

2005 Office of Creative Research and Activities (ORCA) Undergraduate Fellowship; Brigham Young University

2005 Integrative Biology Scholarship-Evolution Meeting, Fairbanks, AK; Brigham Young University

2005 Kathy Ball Geology Department Scholarship; Brigham Young University

2004 Geology Department Fellowship; Brigham Young University

2002, 2003 Communications Scholarship – Print Journalism; Brigham Young University

Awards

2012 Genes and Development Program Post-candidacy Research Achievement Award (Grady Saunders Lecture Invitation – 2013 Genes and Development Program Retreat); University of Texas MD Anderson Cancer Center

2011 Second Place Abstract Winner in Basic Science, Trainee Research Day 2011; University of Texas MD Anderson Cancer Center

2011 Graduate School of Biomedical Sciences Travel Award; University of Texas MD Anderson Cancer Center

2011 Genes and Development Graduate Program Travel Award; University of Texas MD Anderson Cancer Center

2009 Genes and Development Program Student Service Award; University of Texas MD Anderson Cancer Center

2008 Genes And Development Program Pre-candidacy Research Achievement Award; University of Texas MD Anderson Cancer Center

Publications

Nolte, M.J., Swinton, P., Wang, Y., Schwartz, R.J., Behringer, R.R. Functional characterization of two p300-associated enhancers that regulate distinctive reporter gene expression in the mouse limb *(in preparation).*

Nolte, M.J., Behringer, R.R. 2013. Vertebrate limb enhancers: developmental tools, function and evolution. Review. Evol Dev (*in preparation).*

Poche, R.A., Ramaswamy, S., Wada, A.M., Garcia, M.D., **Nolte, M.J.**, Udan, R.S., DePinho, R.A., Bartlett, J.D., Dickinson, M.E. 2012. A FoxO1/Smad transcriptional complex coordinates the expression of genes necessary for biomineralization. PLoS ONE 12: e30357.

Nolte, M.J., Hockman, D., Cretekos C.J., Behringer, R.R., Rasweiler IV, J.J. 2009. Embryonic staging system for the black mastiff bat, *Molossus rufus* (Molossidae), correlated with structure-function relationships in the adult. The Anatomical Record 292: 155-168.

Pérez-Losada, M., **Nolte, M.J.**, Crandall, K.A., Shaw, P.W. 2007. Testing hypotheses of population structuring in the NE Atlantic Ocean and Mediterranean Sea using the common cuttlefish *Sepia officinalis*. Molecular Ecology 16: 2667-2679.

Abstracts

Nolte, M.J., Swinton, P., Schwartz, R.J., Behringer, R.R. Functional characterization of two limb-specific enhancers in the mouse. Sixth International Meeting of the Latin American Society for Developmental Biologists; Montevideo, Uruguay, 2012

Nolte, M.J., Behringer, R.R. Functional characterization of limb-specific enhancers in the mouse. Society for Developmental Biology 70th Annual Meeting; Chicago, IL, 2011

Nolte, M.J., Behringer, R.R. Functional characterization of limb-specific enhancers in the mouse. MD Anderson Cancer Center Trainee Research Day 2011; Houston,TX, 2011

Nolte, M.J., Hockman, D., Cretekos, C.J., Behringer, R.R. Embryonic staging system for the black mastiff bat, *Molossus rufus*. Southwest Regional Developmental Biology Meeting; Houston, TX, 2008

Invited Talks

Grady Saunders Lecture: Regulatory landscape modules in vertebrate genomes: identification and function
Genes and Development Program Retreat; New Braunfels, TX, 2013

Gene regulation during mouse limb development
Brigham Young University; Provo, UT, 2012

Many hands make limbs work
The Texas Association of Biology Teachers Annual Meeting; Houston, TX, 2010

Teaching Experience

Biology for non-majors: Evolutionary developmental biology, Evolution, Teratogenesis, Gene regulation, Altruism
Rice University, Fall 2009, 2010, 2011, 2012

Advanced Topics Academy for AP Biology Teachers: Evolutionary developmental biology
Rice University, Summer 2009

Genes and Development Program Bioinformatics Hands-on Workshop Series: Battle of the Browsers: Overview of Online Genome Browsers
University of Texas MD Anderson Cancer Center, 2009

Professional Membership

Society for Developmental Biology

Graduate School Service

Student Organizer – Genes and Development Program 4th-year Student Symposium
University of Texas MD Anderson Cancer Center, 2010

Student Organizer – Genes and Development Program Retreat
University of Texas MD Anderson Cancer Center, 2009

Volunteer Committee Member – Darwin2009-Houston
Darwin2009-Houston Planning Committee, 2009

References

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Ben F. Love Chair in Cancer Research
University of Texas MD Anderson Cancer Center
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