

# Jennifer F. Hackney

Curriculum Vitae

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## WORK

Arizona State University at the West Campus  
New College of Interdisciplinary Arts & Sciences  
School of Mathematical & Natural Sciences  
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## EMPLOYMENT

2012-Present	Assistant Professor, Arizona State University at the West Camps
2008-2012	Postdoctoral Research Associate, Indiana University
2003-2008	Graduate Research Assistant, University of Missouri – Kansas City
2001-2003	Lab Technician, Fort Dodge Animal Health
1999-2001	Graduate Teaching Assistant, Fort Hays State University

## EDUCATION

2005-2008	University of Missouri – Kansas City, Ph.D. Molecular Biology & Biochemistry; Co-Discipline: Cell Biology & Biophysics
2003-2005	University of Missouri – Kansas City, M.S. Cell & Molecular Biology
1999-2001	Fort Hays State University, M.S. Biology
1995-1999	Fort Hays State University, B.S. Biology (Chemistry Minor)

## ACADEMIC AWARDS/HONORS/FELLOWSHIPS

2009-2012	NIH (T32) Postdoctoral Fellow, “Common Themes in Reproductive Diversity” Training Grant, Indiana University
2009	Distinguished Dissertation Award in Biological and Life Sciences (nominee), Council of Graduate Studies
2008	Outstanding Dissertation Award in the Sciences, School of Graduate Studies, University of Missouri-Kansas City
2006-2008	Chancellors Pre-Doctoral Fellowship, School of Graduate Studies, University of Missouri-Kansas City
2006-2008	Women’s Council Graduate Assistance Travel Award, University of Missouri-Kansas City
2005-2007	Minority Pre-doctoral Fellowship, School of Graduate Studies, University of Missouri-Kansas City
2003-2005	Graduate Teaching Assistantship, University of Missouri – Kansas City
2000	Sigma Xi Annual Student Research Showcase: 3rd Place, Fort Hays State University
1999-2001	Graduate Teaching Assistantship, Fort Hays State University

## PUBLICATIONS

### REFEREED JOURNAL ARTICLES

Hackney J.F., Zolali-Meybodi O.\*, Cherbas P. 2012. Tissue Damage Disrupts Developmental Progression and Ecdysteroid Biosynthesis in *Drosophila*. PLoS One. 7(11): e49105. PMID: 23166607. Impact Factor: 4.092 Cited by 4  
*Contribution:* Participated in experimental design, data collection and analysis for all experiments described in the publication. Wrote first draft of manuscript, participated in manuscript revision and submission.

*\*Indicates undergraduate researcher*

Levine B., Hackney J.F., Truesdale A., Dobens L., Bergen A.\*, Dobens L.L. 2010. Opposing Interactions between *Drosophila* Cut and the C/EBP Encoded by Slow Border Cells Mediate Notch Regulation of Apical Constriction and Epithelial Invagination. Developmental Biology. 2010. 344(1): 196-209. PMID: 20450903.

Impact Factor: 4.069 Cited by 5

*Contribution:* Participated in data collection and analysis for several experiments described in the publication. Participated in revision of manuscript.

*\*Indicates undergraduate researcher*

Smith A., Rish K.R., Lovelace R., Hackney J.F., Helston R.M. 2009. Role for Copper in the Cellular and Regulatory Effects of Heme-Hemopexin. Biometals, 22(3):421-37. PMID: 19039664.

Impact Factor: 2.823 Cited by 5

*Contribution:* Participated in data collection and analysis for one experiment described in the publication.

Romani P., Bernardi F., Hackney, J., Dobens, L., Gargiulo, G., Cavaliere, V. 2009. Cell Survival and Polarity of *Drosophila* Follicle Cells Require the Activity of Ecdysone Receptor B1 Isoform. Genetics, 181(1):165-75. PMID: 19015542.

Impact Factor: 4.007 Cited by 11

*Contribution:* Contributed preliminary data, participated in data analysis and revision of manuscript.

Ash D., Hackney J.F., Burton N. and Dobens L. 2007. A Dominant Negative Allele of the *Drosophila* Leucine Zipper Protein Bunched Blocks Bunched Function during Tissue Patterning. Mechanisms of Development, 124:559-69. PMID: 17600691.

Impact Factor: 2.833 Cited by 4

*Contribution:* Participated in data collection and analysis for several experiments described in the publication. Participated in revision of manuscript.

Hackney J.F., Pucci C.\*, Naes E.\*, and Dobens L.L. 2007. Ras Signaling Modulates Activity of the Ecdysone Receptor during Cell Migration in the Ovary. Developmental Dynamics, 236(5): 1213-26. PMID: 17436275.

Impact Factor: 2.536 Cited by 33

*Contribution:* Participated in experimental design, data collection and analysis for all experiments described in the publication. Wrote first draft of manuscript, participated in manuscript revision and submission.

*\*Indicates undergraduate researcher*

## PUBLISHED CONFERENCE PROCEEDINGS

Duprey, D.\*, Burch, M.\*, Patel, D.\*, Santa Cruz, A.\*, and Hackney, J. 2014. Understanding Growth and Development through the Injury Response in *Drosophila Melanogaster*. Proceedings of AZ NV Academy of Science. 49: 27.

*\*Indicates undergraduate researcher*

Landlais, B.\*, Howard, J.\*, Dern, R.\*, Hackney, J. and Broatch, J. 2014. Statistical Analysis of Microarray Data: Identification of Differentially Expressed Genes Following Injury in the Fruit Fly. Proceedings of AZ NV Academy of Science. 49: 31.

*\*Indicates undergraduate researcher*

Rippere, A.\*, Caldera, B., Mead-Smith, B.\*, and Hackney, J. 2014. Damage to Larval Tissues and its Effect on Developmental Timing in *Drosophila Melanogaster*. Proceedings of AZ NV Academy of Science. 49: 32.

*\*Indicates undergraduate researcher*

Rodriguez Contreras, J.\*, Leek, T.\*, Hussain, S.\*, Broatch, J. and Hackney, J. 2014. Elucidation of Changes in Metabolism and Gene Expression in Response to Localized Tissue Damage in *D. Melanogaster*. Proceedings of AZ NV Academy of Science. 49: 33.

*\*Indicates undergraduate researcher*

## CONFERENCE PRESENTATIONS

Hackney, J.F., Zolali-Meybodi, O.\*, and Cherbas, P. 2012. Tissue Damage Disrupts Ecdysteroidogenesis and Developmental Progression. Genetics Society of America *Drosophila* Research Conference. (poster)

*\*Indicates undergraduate researcher*

Hackney, J.F., Zolali-Meybodi, O.\*, and Cherbas, P. 2012. Tissue Damage Disrupts Ecdysteroidogenesis and Developmental Progression. Indiana University Annual Animal Behavior Conference. (poster)

*\*Indicates undergraduate researcher*

Hackney, J.F. 2011. Injury-Induced Disruption of Developmental Progression in *Drosophila*. Gordon Research Conference: Hormone Action in Development & Cancer.

Hackney, J.F. and Cherbas P. 2011. Injury to Tracheal Cell Precursors Disrupts Developmental Progression in *Drosophila*. Indiana University Annual Animal Behavior Conference (poster)

Hackney, J.F. and Cherbas P. 2010. Tissue Injury Delays Reproductive Maturation in *Drosophila*. Indiana University Postdoc Appreciation Week Poster Session. (poster)

Hackney, J.F., Crosh, C.\* and Cherbas P. 2010. A Deficiency Screen to Identify Modifiers of a Global Injury Response Triggered by Damage to a Variety of Tissues. Ecdysone Workshop: Genetics Society of America Annual *Drosophila* Research Conference.

*\*Indicates undergraduate researcher*

Hackney, J.F., Crosh, C.\* and Cherbas P. 2010. X-Chromosome Deficiency Screen to Identify Modifiers of a Global Injury Response. Indiana University Annual Animal Behavior Conference. (poster)

\*Indicates undergraduate researcher

Hackney, J.F. 2010. Injury-Induced Developmental Delays in *Drosophila melanogaster*. W.M. Keck Center for Behavioral Biology Annual Student & Postdoc Symposium.

Hackney J.F., Cherbas L., Cherbas P. 2009. Injury-Induced Developmental Delay. Ecdysone Workshop: Genetics Society of America Annual *Drosophila* Research Conference.

Hackney J.F., Cherbas L., Cherbas P. 2009. Injury-Induced Developmental Delay in *Drosophila*. Indiana University Annual Animal Behavior Conference. (poster)

Hackney J.F., Andrews J., Klueg K. and Cherbas L. 2008. The *Drosophila* Genomics Resource Center. Annual Midwest *Drosophila* Conference.

Hackney J.F., Dobens L.L. 2008. Ecdysone Receptor (EcR) Regulation of Chorion Gene Amplification. Genetics Society of America Annual *Drosophila* Conference. (poster)

Hackney J.F., Dobens L.L. 2007. Regulation of *Drosophila* Oogenesis by the Ecdysone Receptor, a Steroid Hormone Receptor. University of Kansas Medical Center: Donald C. Johnson Seminar Series in Reproductive Biology.

Hackney J.F., Pucci C.\*, Dobens L.L. 2007. Ecdysone Receptor Activity Regulates Cell Migration in the Ovary. Genetics Society of America Annual *Drosophila* Conference.

\*Indicates undergraduate researcher

Hackney J.F., Pucci C.\* and Dobens LL. 2006. Regulation of Ecdysone Receptor Activity in the *Drosophila* Ovary. Society for Developmental Biology, Annual Meeting. (poster)

\*Indicates undergraduate researcher

## UNPUBLISHED MANUSCRIPTS

Hackney, J.F. 2008. Ecdysone Receptor (EcR) Regulates Cell Migration and Chorion Gene Amplification in the *Drosophila* Ovary (Doctoral Dissertation). ProQuest.

Hackney, J.F. 2002. PCR Cloning of Chick Noggin. (Master's Thesis). Forsythe Library Digital Collection.

## COURSES TAUGHT

2014	Honors Directed Study (LSC 492), Arizona State University
2013-2014	Cell Biology (BIO353), Arizona State University
2013-2014	Cell Biology Laboratory (BIO 354), Arizona State University
2013-2014	Peer Mentoring in Life Sciences (LSC 486), Arizona State University
2013-2014	Individualized Instruction (LSC 499), Arizona State University
2013	General Biology I (BIO 181), Arizona State University
2012	Fundamentals of Genetics Lab (LSC 348), Arizona State University

2011	Epigenetics and Reproductive Behavior (A501), Indiana University.
2009, 2011	Research and Professional Ethics for the Bio-behavioral Sciences (A502), Co-Instructor, Indiana University.
2009	Techniques in Reproductive Diversity (A501), Co-Instructor, Indiana University.
2009-2010	Introduction to Taekwondo Sparring (E100), Indiana University.
2004	Functional Anatomy Laboratory, University of Missouri-Kansas City.
2004	General Biology Laboratory, University of Missouri-Kansas City.
2003	Introduction to Anatomy Laboratory, University of Missouri-Kansas City.
2000	Introduction to Cell Biology Laboratory, Fort Hays State University.
2000	Physiology of Humans Laboratory, Fort Hays State University.
1999	Anatomy of Humans Laboratory, Fort Hays State University.

### **PROFESSIONAL ORGANIZATIONS**

2014-Present	Arizona Nevada Academy of Science
2012-Present	Faculty Women's Association – Arizona State University
2005-Present	Genetics Society of America
2009-2012	Center for the Integrative Study of Animal Behavior
2011	Indiana Academy of Science