ROBIN E. HARRIS

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| **Assistant Professor • Arizona State University • School of Life Sciences**  Tempe, AZ 85287-4501 |
| Phone 480-965-7543 • E-mail ROBIN.HARRIS@asu.edu |

**EDUCATION**

2005 - 2009 **Doctor of Philosophy in Developmental Biology**

University of Manchester, United Kingdom

*Dissertation:* The Role of Brat in the differentiation of *Drosophila* ovarian stem cells; *Supervisor:* Hilary Ashe, PhD

2001 - 2004 **Bachelor of Science in Biological Sciences,**

Warwick University, United Kingdom

*B.Sc (Honors) 2:1*

**RESEARCH & EMPLOYMENT HISTORY**

2018 - present **Assistant Professor**, Molecular and Cell Biology, School of Life Sciences,

Arizona State University, Tempe, AZ

2014 - 2017 **Associate Specialist**, University of California, Berkeley; *Supervisor:* Iswar K Hariharan, PhD

2011 - 2014 **Postdoctoral Research Fellow**, University of California, Berkeley; *Supervisor:* Iswar K Hariharan, PhD

2009 - 2011 **Research Associate**, University of Manchester, United Kingdom *Supervisor:* Hilary Ashe, PhD

2005 - 2009 **Teaching assistant**, University of Manchester, United Kingdom

2008 - 2008 **Medical Laboratory Assistant - Cytology**

Royal Surrey County Hospital, Guildford, United Kingdom

**PUBLICATIONS**

**Harris, RE** – Total citations ([Google Scholar](https://scholar.google.com/citations?user=FdUAOR4AAAAJ&hl=en); 10/25/2019): 527; h-index: 8; i10-index: 8

1. **Harris, R.E (Corresponding author)**, Stinchfield, M., Nystrom, S., McKay, D., Hariharan, I.K., Regenerative capacity in Drosophila imaginal discs is controlled by damage-responsive, maturity-silenced enhancers*.* eLIFE *9,* e583052020 (2020)
2. **Harris, R.E.**, Setiawan, L., Saul, J., Hariharan, I.K. Localized epigenetic silencing of a damage-activated WNT enhancer limits regeneration in mature *Drosophila* imaginal discs. eLIFE *5,* e11588 (2016)

Impact Factor (2016) = 7.725; Citations = 28

1. Newton, F.G., **Harris, R.E.**, Sutcliffe, C., and Ashe, H.L. Coordinate post-transcriptional repression of Dpp-dependent transcription factors attenuates signal range during development. Development *142*, 3362-73 (2015).

Impact Factor (2015) = 6.059; Citations = 10

1. Fritsch, C., Sawala, A., **Harris, R.**, Maartens, A., Sutcliffe, C., Ashe, H.L., and Ray, R.P. Different requirements for proteolytic processing of bone morphogenetic protein 5/6/7/8 ligands in Drosophila melanogaster. The Journal of Biological Chemistry *287*, 5942-5953. (2012).

Impact Factor (2012) = 4.651; Citations = 13

1. **Harris, R.E.**, Pargett, M., Sutcliffe, C., Umulis, D., and Ashe, H.L. Brat promotes stem cell differentiation via control of a bistable switch that restricts BMP signaling. Developmental Cell *20*, 72-83. (2011).

Impact Factor (2011) = 14.030; Citations = 105

1. **Harris, R.E.\***,Yarunin, A.\*, Ashe, M.P., and Ashe, H.L. Patterning of the Drosophila oocyte by a sequential translation repression program involving the d4EHP and Belle translational repressors. RNA Biology *8*, 904-912. (2011).

Impact Factor (2011) = 4.933; Citations = 21

1. Pargett, M., **Harris, R.E.**, Ashe, H.L, Umulis, D.M., Systems biology of spatial organization: Autoregulation and competition in BMP-mediated patterning. Developmental Biology *344*, 418 (2010)

Impact Factor (2010) = 4.069

1. Wang, X., **Harris, R.E.**, Bayston, L.J., and Ashe, H.L. Type IV collagens regulate BMP signalling in Drosophila. Nature *455*, 72-77. (2008).

Impact Factor (2008) = 31.434; Citations = 236

**BOOK CHAPTERS, REVIEW ARTICLES & EDITORIALS**

1. **Harris, R.E.**, and Ashe, H.L. Cease and desist: modulating short-range Dpp signalling in the stem-cell niche. EMBO Reports *12*, 519-526. (2011).

Impact Factor (2011) = 7.355; Citations = 45

**SELECTED HONORS, POSITIONS & AWARD**

**Fellowships**

• Life Sciences Research Foundation (LSRF) postdoctoral fellowship, sponsored by the Ellison Medical

Foundation/AFAR, 2013 – 2016. One of 36 selected from over 900 applicants in the class of 2013

• California Institute of Regenerative Medicine (CIRM) postdoctoral fellowship, 2012 – 2013

• CIRM postdoctoral fellowship, 2011 – 2012

**Awards**

• UC Berkeley Molecular and Cell Biology Department Best Seminar Presentation award, 2016

• UC Berkeley Molecular and Cell Biology Department Outstanding Postdoctoral Fellow award, 2016

• UC Berkeley Cell and Developmental Biology Conference Best Poster Presentation award, 2012

• University of Manchester Tissue Systems and Developmental Biology Showcase Best Graduate

Seminar Presentation award, 2010

• Genetics Society Travel Grant for Junior Scientists, University of Manchester, UK, 2008

• University of Manchester Graduate Student Travel Grant, University of Manchester, UK, 2008

**RESEARCH SUPPORT**

**Current**

NICDH R21 (1R21HD102765-01) 07/2020-06/2022

Role: PI

*The regenerative response to tissue necrosis.*

NSF Division of Integrative Organismal Systems Core Programs (2027237) 08/2020-08/2023

Role: Co-PI (with Juergen Liebig)

*Exploiting the evolution of odorant discrimination in ants to decipher the olfactory code*

Life Sciences Research Foundation Fellowship 06/2013-06/2017 (no end date for fund use)

Role: Postdoc

*Identification and characterization of novel tissue regeneration factors in Drosophila.*

ASU School of Life Sciences startup 08/2018-08/2022

Role: PI

*Understanding the genetic and epigenetic regulation of regenerative capacity.*

10X Genomics Program Grant 09/2019-09/2020

Role: PI

*Understanding the genetic and epigenetic regulation of tissue regeneration*

ASU Graduate and Professional Student Association Research Grant 08/2019-08/2020

Role: Co-PI (with Juergen Liebig)

*Mapping of olfactory receptors for divergent social insect species.*

ASU Social Insect Research Group Internal Research Grant 08/2019-08/2020

Role: Co-PI (with Juergen Liebig)

*Characterizing the olfactory capabilities of distinct insect societies*.

**SELECTED CONFERENCE PRESENTATIONS**

April 2020 Genetics Society of America Allied Genetics Conference, Washington DC

“The genetic control of tissue regeneration” Poster presentation

October 2019 Southern California Drosophila Meeting, UC Irvine

“Diminishing regenerative capacity in Drosophila imaginal discs” Poster presentation

May 2019 Statewide Symposium in Regenerative Medicine, Skysong Scottsdale, AZ

“The genetic control of tissue regeneration” Platform presentation

Mar 2019 60th Annual Drosophila Research Conference, Dallas, TX

“Understanding regenerative capacity in *Drosophila* imaginal discs” Poster presentation

Sept 2018 Developmental Biology Seminar Series, invited speaker, University of California, Davis

“Damage-Activated Regeneration Enhancers (DAREs) control regenerative capacity” Platform presentation

Feb 2018 Life Sciences a Café Seminar Series, new faculty talk, Arizona State University

“The genetic control of tissue regeneration” Platform presentation

Mar 2018 59th Annual Drosophila Research Conference, Portland, OR

“Damage-Activated Regeneration Enhancers (DAREs) control regenerative capacity” Platform presentation

**TRAINEE POSTER PRESENTATIONS**

July 2020 SDB 79th Annual Meeting, Chicago IL

Jacob Klemm, **Robin Harris**, “A model for necrosis in *Drosophila* reveals regeneration by tissue remodeling” Poster presentation

July 2020 SDB 79th Annual Meeting, Chicago IL

Weston Quinn, **Robin Harris**, “Improving regeneration by manipulating Damage-Activated Maturity-Silenced enhancers” Selected platform presentation

Mar 2019 60th Annual Drosophila Research Conference, Dallas TX

Mike Stinchfield, **Robin Harris,** “Epigenetic regulation of regenerative capacity”

May 2019 Statewide Symposium in Regenerative Medicine, Skysong Scottsdale, AZ

Weston Quinn, **Robin Harris** “The genetic control of tissue regeneration” Poster presentation

**TEACHING & CURRICULUM DEVELOPMENT**

***Arizona State University, School of Life Sciences, Primary Instructor***

**General Genetics, BIO 340**

3 credit required class for Biology majors

* This flagship class surveys the fundamental principles of genetics—the study of biological inheritance. It aims for an up-to-date understanding of genetics, integrating classical rules for inheritance of traits with modern knowledge of the structure and function of genes. Specific topics will include Mendelian principles, molecular and functional genetics, gene regulation, cytogenetics, gene mapping, genetics of development, complex traits, and population genetics. In addition to lectures, there is a strong emphasis on how to solve genetic problems.
* The format is lecture-based classes supplemented with mandatory recitation sections, and an honors contract available for honors students.
* Evaluation is via 4 midterms and a comprehensive final exam, supplemented with weekly online MasteringGenetics assignments, weekly recitation attendance and homework quiz questions, and in lecture interactive clicker questions.

**Tissue regeneration and stem cell biology, BIO 494/598**

3 credit elective for graduate students and senior undergraduates

* A class developed by myself, based on primary literature and research articles
* This class examines the basic mechanisms of wound healing and regeneration, looking at examples of the diverse regenerative strategies that occur in vertebrates and invertebrates, and how scientists can develop strategies to artificially improve regeneration through gene therapy and stem cell-based approaches.
* The format is half lecture-based, half primary research paper analysis.
* Evaluation is via submission of research paper analyses, student presentations and a midterm and final exams.

**MCB Graduate Student Colloquium MCB 501/701**

1 credit seminar for graduate students

* In this seminar-style course, students present their current research, develop oral presentation skills, and learn to professionally critique other seminars. In addition, cutting edge research and career development seminars are presented by faculty from ASU as well as national speakers. Students are expected to participate in discussions and develop their critical reasoning skills.
* Evaluation is pass/fail based on attendance, with feedback provided on presentations by peer review.

**Undergraduate Research, BIO/MIC/MBB/BCH 495**

1-3 credit undergraduate elective

Supervised research in biology, genetics and regeneration.

**PROFESSIONAL AFFILIATIONS**

2017 - Present Society for Developmental Biology

2016 - Present American Society for Cell Biology (ASCB)

2015 - Present American Association for the Advancement of Science (AAAS)

2011 - Present Genetics Society of America (GSA)