# Ashley L. Kalinski, Ph.D.

Department of Biology
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## Education

## *List actual degrees (e.g., M.B.B.S.) not US equivalent (e.g., M.D.).*

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| --- | --- |
| **Ph.D.**, (Biological Science), Drexel University, Philadelphia, PA/USAThesis Title: *Alterations in the local environment of axons converge on intrinsic pathways that support growth of adult neurons*Advisor: Jeffery L. Twiss | 2015 |
| **B.A.**, Biology and Japanese Studies *(magna cum laude)*, Adrian College, Adrian, MI/USA**NDE**, Japanese Studies, Kansai Gaidai University, Hirakata, Japan | 20102008-2009 |

## Postdoctoral Training

*List postdoctoral training and education programs.*

|  |  |
| --- | --- |
| Postdoctoral Research FellowSupervisor: Jeffery L. TwissBiological Sciences, University of South Carolina, Columbia, SC | 2015 |
| Postdoctoral Research FellowSupervisor: Roman J. GigerCell and Developmental Biology, University of Michigan Medical School, Ann Arbor, MI**Faculty Positions**Assistant Professor of ImmunologyDepartment of Biology, Ball State University, Muncie, IN | 2015-20202020-Present |
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## Major Leadership Positions

*List Major Leadership Positions (e.g., chair, associate dean, center director, division chief) under this heading. Leadership positions within the different missions should be listed in the appropriate section: Educational Activities (e.g., Residency Director), Investigation (e.g., Core Director), or Health Care Delivery (e.g., Clinic Director). List leadership positions for professional organizations under Academic Service.*

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| --- | --- |
| ***University of Michigan- Ann Arbor, MI***RNA Postdoc/Graduate Student CouncilDiversity, Equity and Inclusion Chair: University of Michigan Postdoctoral AssociationFaculty Senate Assembly- Research Policies Committee Board MemberUniversity of Michigan Postdoctoral Association (UMPDA) Board MemberDiversity, Equity and Inclusion Basic Sciences Committee MemberDirector of Judging, Southeastern Michigan Science Fair | 20192017-20192018-Present2016-Present20182016 |
| ***Drexel University- Philadelphia, PA***Vice President, Biology Graduate Student AssociationSecretary, Biology Graduate Student Association | 2012-20132011-2012 |

## Other Positions and Employment

*List non-academic employment history, noting position held, employer, location, brief description of duties and responsibilities. Include any military service.*

|  |  |
| --- | --- |
| Adjunct Faculty, Biology Department, Adrian College, MIMad Scientist of Detroit, Livonia, MI | 2019-Present2018-2019 |

## Honors and Awards

*Include elite fellowship programs, to which you were accepted on the basis of a competitive, as opposed to first-come, first-serve, application process.*

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| --- | --- |
| Postdoc 180 Finalist (University of Michigan Medical School) 3rd Place Scientific Image Competition (Center for RNA Biomedicine, University of Michigan)Travel Award (Cell and Developmental Biology, University of Michigan)Best Postdoctoral Research Poster (Cell and Developmental Biology, University of Michigan)Best Research Fellow Poster (Department of Neurology, University of Michigan)Adrian College Young Alumni Achievement Award (Adrian College)Travel Award (Drexel University)International Travel Award (Drexel University)International Travel Award (United States-Israel Binational Science Foundation)Outstanding STAR Mentor (Drexel University)Outstanding Senior in Japanese Studies (Adrian College) | 2019201920192018201720162014,20132014201320122010 |

## Educational Activities

*Group activities if repeated over multiple years. List institution for all non-UMMS educational activities.*

### Educational Leadership, Administration and Service

*List educational leadership positions and service on educational committees.*

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| --- | --- |
| Mentoring Practices Retreat- Trainee FacilitatorOffice of Graduate and Postdoctoral Studies Workshop “Engage via Career Stories”- Trainee Facilitator Workshop on Graduate and Postgraduate STEM Training for the 21st Century- Postdoc Focus groupSciPhD Bootcamp Participant at Wayne State University Mentor, Adrian College Pilot Mentoring ProgramDirector of Judging, Southeastern Michigan Science Fair | 201820182017201720162016 |

### Teaching Activities in Programs and Courses

*List formal teaching activities in courses, noting your role (course director, lecturer).
If appropriate, divide into separate sections by type of learner (medical student, resident etc)*

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| --- | --- |
| Biology 101 Laboratory, Adjunct Instructor Adrian CollegeCDB 582/582 Lecture: Axon Regeneration in the Mammalian Central Nervous System, Center for Organogenesis, University of MichiganBIO 565 Neurobiology of Disease Lecture: Spinal Cord Injury, Department of Biological Sciences, Drexel UniversityBio 141: Essential Biology (Engineer Majors), Teaching Assistant Drexel University, 100 students Laboratory course: (4) 2 hour lab sections with 25 students/class. Taught labs which included course development, office hours and exam processing.  Recitation course: (5) 1 hour recitation with 25 students/class. Gave small group lecture and led discussion which included quiz and exam processing and office hours. Bio 122: Cells and Genetics (Biology Majors), Teaching Assistant Drexel University, 50 students Laboratory course: (2) 2 hour lab sections with 25 students/class. Taught labs which included course development, office hours and exam processing. Bio 124: Evolution and physiology (Biology Majors), Teaching Assistant Drexel University, 50 students Laboratory course: (2) 2 hour lab sections with 25 students/class. Taught labs which included course development, office hours and exam processing.  | Fall 2019Spring 2018Spring 2013Spring 2011, 2012Fall 2011, 2012Winter 2010, 2012 |

### Research Education

*Describe teaching responsibilities in the research setting for students ,postdocs and others;
list membership in Graduate Programs and service on doctoral and examination committees.*

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| --- | --- |
| SWOT Analysis of Postdoctoral Survey, University of Michigan, 25% effort.  | 2018-2019 |

### Education for the Public/Community Education

*List teaching/educational activities for patients, communities, and similar external audiences.*

|  |  |
| --- | --- |
| Publications to the Public, Science Communication MemberYpsilanti, Michigan | 2018-Present |
| BrainsRule! Demonstration Volunteer, University of Michigan Michigan DNA Day Ambassador, University of Michigan/Skyline High SchoolInnoworks STEM Summer Camp Staff/Mentor, University of MichiganDiscovery Day Judge, University of South CarolinaPhiladelphia Science Festival Demonstration Volunteer, Philadelphia PA  | 20172017201720142012, 2013 |

### Educational Development: Curricula and Educational Materials

*For example: development of courses, curricula, or educational materials, including online resources and other electronic media, such as webinars. Any scholarship (including online) resulting from these activities should be listed under publications.*

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| --- | --- |
| *University of Michigan- Ann Arbor, MI*Writing a Diversity Statement, Center for Research on Learning and TeachingDeveloping Your Teaching Philosophy, Center for Research on Learning and Teaching Implementing Inclusive Teaching Principles in Your Courses, Center for Research on learning and Teaching*Drexel University- Philadelphia, PA*Developing Your Teaching Philosophy Certificate Program, Drexel Graduate Student AssociationDevelopment of Philadelphia Science Fair Demonstration Materials, Drexel Graduate Student Association | 2017201820182012-20132012, 2013 |

**Advising and Mentoring**

*List individuals (students, residents, postdoctoral trainees, faculty) whom you have directly advised or mentored. Divide by type and include the names, program, your role, their current position, if known.*

### Students

|  |  |
| --- | --- |
| ***University of Michigan- Ann Arbor, MI***Nadine Kridli, Undergraduate Research, Research Assistant MentorCorey Flynn, Undergraduate Research, Research Assistant MentorGiger Lab Manager | 2019-present2018-present |
| Xuefeng Meng, Cell and Developmental Biology Graduate Program, Rotation MentorGraduate Student CDBKimberly Villegas, Undergraduate Research, Research Assistant MentorMedical Assistant/Graduate Student***University of South Carolina- Columbia, SC***John Craver, Undergraduate Research, Research Assistant MentorMedical Student, Medical University of South CarolinaPaul Brito-Vargas, Undergraduate Research, Research Assistant MentorResearch Fellow, NestleZalak Shah, Undergraduate Research, Research Assistant MentorMedical Student, University of South Carolina***Drexel University- Philadelphia, PA***Zachary Winnegrad, STAR Summer Research Program, Research Assistant MentorResident, Cooper University Hospital | 20182017-20182014-20152014-20152013-20142012 |

## Grants

*Include the title of grant, granting agency and grant number; total, direct & indirect costs; and complete funding dates. State your role, identify the PI if not you, and your percent effort.*

### Completed

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| --- | --- |
| T32NS007222-35/36 Ashley KalinskiAxon Regeneration and Immune Cell ActivationAssed whether MAP3K12 is required for immune cell activation following axonal injury.NINDS-NIHRNA Salon Grant Nils Walter, Mats Ljungman, Ashley Kalinski, Ciarra WittRNA Student and Postdoc CouncilRNA Society and Lexogen- $1,500 for 12 months | 2016, 20172019-2020 |

## Current Research Projects

*List projects to which you* ***currently*** *devote effort without funding including contribution of patients.
Do not include any funded projects listed above.*

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| --- | --- |
| **A focus on intrinsic and extrinsic mechanisms involved in axon regeneration in the peripheral and central nervous system. Specifically, I have been characterizing the role of a map triple kinase (dual leucine zipper kinase, DLK) in axons after injury** | 2016-present |
| A second project I have recently taken on is the role of Sarm1 in axon regeneration. Sarm1 has elegantly been shown to be required for Wallarian Degeneration. However, its role in regeneration has been completely understudied. I have generated preliminary data that supports a new role for retrograde signaling that is dependent on Sarm1. A third project is understanding the role the immune system plays in aiding or hindering regeneration after injury. Specifically, assessing the differences in activation between the peripheral and central nervous system. This study has characterized different immune cell population and their cytokine/chemokine profiles.  | 2018-present2017-present |

## Scholarship

### *Divide your scholarship into categories as indicated below; list and number each category. Reverse chronological order is recommended but chronological order is acceptable if the list is long. Only include articles that are published, in press, or accepted for publication.* include complete reference with full title, all authors *(do not use “et al.”)* and inclusive pagination*. BOLD your name in the list of authors.*

### Peer-reviewed publications

1. Kalinski AL, Kar AN, Craver J, Tosolini AP, Sleigh JN, Lee SJ, Hawthorne A, Brito-Vargas P, Miller-Randolph S, Passino R, Shi L, Wong VSC, Picci C, Smith DS, Willis DE, Havton LA, Schiavo G, Giger RJ, Langley B, Twiss JL. [Deacetylation of Miro1 by HDAC6 blocks mitochondrial transport and mediates axon growth inhibition.](https://www.ncbi.nlm.nih.gov/pubmed/31068376/) J Cell Biol. 2019 May 8;.doi: 10.1083/jcb.201702187. [Epub ahead of print] PubMed PMID: 31068376.
2. Mironova YA, Lin JP, Kalinski AL, Huffman LD, Lenk GM, Havton LA, Meisler MH, Giger RJ. [Protective role of the lipid phosphatase Fig4 in the adult nervous system.](https://www.ncbi.nlm.nih.gov/pubmed/29688489/) Hum Mol Genet. 2018 Jul 15;27(14):2443-2453. doi: 10.1093/hmg/ddy145. PubMed PMID: 29688489; PubMed Central PMCID: PMC6030899.
3. Terenzio M, Koley S, Samra N, Rishal I, Zhao Q, Sahoo PK, Urisman A, Marvaldi L, Oses-Prieto JA, Forester C, Gomes C, Kalinski AL, Di Pizio A, Doron-Mandel E, Perry RB, Koppel I, Twiss JL, Burlingame AL, Fainzilber M. [Locally translated mTOR controls axonal local translation in nerve injury.](https://www.ncbi.nlm.nih.gov/pubmed/29567716/) Science. 2018 Mar 23;359(6382):1416-1421. doi: 10.1126/science.aan1053. PubMed PMID: 29567716; PubMed Central PMCID: PMC6501578.
4. Merianda TT, Jin Y, Kalinski AL, Sahoo PK, Fischer I, Twiss JL. [Neural Progenitor Cells Promote Axonal Growth and Alter Axonal mRNA Localization in Adult Neurons.](https://www.ncbi.nlm.nih.gov/pubmed/28197547/) eNeuro. 2017 Jan-Feb;4(1). doi: 10.1523/ENEURO.0171-16.2017. eCollection 2017 Jan-Feb. PubMed PMID: 28197547; PubMed Central PMCID: PMC5291088.
5. Twiss JL, Kalinski AL, Sachdeva R, Houle JD. [Intra-axonal protein synthesis - a new target for neural repair?.](https://www.ncbi.nlm.nih.gov/pubmed/27857722/) Neural Regen Res. 2016 Sep;11(9):1365-1367. doi: 10.4103/1673-5374.191193. Review. PubMed PMID: 27857722; PubMed Central PMCID: PMC5090821.
6. Perry RB, Rishal I, Doron-Mandel E, Kalinski AL, Medzihradszky KF, Terenzio M, Alber S, Koley S, Lin A, Rozenbaum M, Yudin D, Sahoo PK, Gomes C, Shinder V, Geraisy W, Huebner EA, Woolf CJ, Yaron A, Burlingame AL, Twiss JL, Fainzilber M. [Nucleolin-Mediated RNA Localization Regulates Neuron Growth and Cycling Cell Size.](https://www.ncbi.nlm.nih.gov/pubmed/27477284/) Cell Rep. 2016 Aug 9;16(6):1664-1676. doi: 10.1016/j.celrep.2016.07.005. Epub 2016 Jul 28. PubMed PMID: 27477284; PubMed Central PMCID: PMC4978702.
7. Kalinski AL, Sachdeva R, Gomes C, Lee SJ, Shah Z, Houle JD, Twiss JL. [mRNAs and Protein Synthetic Machinery Localize into Regenerating Spinal Cord Axons When They Are Provided a Substrate That Supports Growth.](https://www.ncbi.nlm.nih.gov/pubmed/26180210/) J Neurosci. 2015 Jul 15;35(28):10357-70. doi: 10.1523/JNEUROSCI.1249-15.2015. PubMed PMID: 26180210; PubMed Central PMCID: PMC4502271.
8. Lee SJ, Kalinski AL, Twiss JL. [Awakening the stalled axon - surprises in CSPG gradients.](https://www.ncbi.nlm.nih.gov/pubmed/24424282/) Exp Neurol. 2014 Apr;254:12-7. doi: 10.1016/j.expneurol.2013.12.025. Epub 2014 Jan 11. PubMed PMID: 24424282.
9. Yoo S, Kim HH, Kim P, Donnelly CJ, Kalinski AL, Vuppalanchi D, Park M, Lee SJ, Merianda TT, Perrone-Bizzozero NI, Twiss JL. [A HuD-ZBP1 ribonucleoprotein complex localizes GAP-43 mRNA into axons through its 3' untranslated region AU-rich regulatory element.](https://www.ncbi.nlm.nih.gov/pubmed/23586486/) J Neurochem. 2013 Sep;126(6):792-804. doi: 10.1111/jnc.12266. Epub 2013 Apr 30. PubMed PMID: 23586486; PubMed Central PMCID: PMC3766383.

### Books & Chapters

1. Kalinski AL, Hines T, Smith DS, Twiss JL. Neuronal Transport and Spatial Signaling Mechanisms in Neural Repair . In: Encyclopedia of Cell Biology. Bradshaw RA, Stahl PD, editors. Science Direct: Elsevier; 2016. p.230-242.

### In Preparation:

1. Kalinski AL\*, Kohen R\*, Flynn CGK, Kridli N, Huffman LD, Kawaguchi R, Ma J, Asghari Adib E, Smith D, Havton LA, Shea L, Coppola G, Schrager P, Collins CA, Giger RJ. SARM1 Dependent Nerve Degeneration is Required for Axon Regeneration. *In preparation for November 2019.*
2. Kalinski AL, Yoon C, Villegas K, Flynn CGK, Twiss JL, Collins CA, Giger RJ. DLK is Locally Translated in Axons. *In preparation for December 2019.*
3. Kalinski AL\*, Yoon C\*, Duncker PC\*, Huffman LD, Atkinson J, Segal BM, Giger RJ. Characterization of the Immune Response to Sciatic Nerve Injury: Implications for Sensory Axon Growth and Regeneration. *In preparation for December 2019*.

### Policy Statements, White Papers, Reports

### *Defined as materials produced for government agencies and other organizations that are disseminated and publicly available but not part of traditional academic publishing.*

1. Francois Beaufay, Will Close, Ashley Kalinski, Jay Vornhagen. Current State of the Postdoctoral Fellow Experience. University of Michigan Postdoctoral Association (2018).
2. Francois Beaufay, Ashley Kalinski, Jay Vornhagen, Aaron Riefler. Postdoc Advisory Group (2018).

### Non-print / Online materials

1. Ashley Kalinski. Ron Jones: Dialogues on Diversity in Science. https://ogps.med.umich.edu/ron-jones-dialogues-on-diversity-in-science-event-summary/ (2018).

## Invited Presentations

List presentations that you were invited to give at institutions (e.g., visiting professorships, research seminars or grand rounds) or professional meetings (e.g., plenary or keynote talks, seminar sessions). List the institution or name of meeting, location and date. See the CV Guide for definition of local, regional, national.

### *University of Michigan- Ann Arbor, MI*

*Within UMMS, UMMHC and their affiliated institutions.*

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| Sarm1: More than just Axon Destruction, Cell and Developmental Biology Retreat, Local regulation of DLK in Axons, RNA Innovation Series, Center for RNA BiomedicineLocal Regulation of DLK in Axons, Neurobiology of Disease SymposiumLocal Regulation of DLK in Axons, Department of NeurologyLocal Regulation of DLK in Axons, Neurobiology of Disease SymposiumNovel mechanisms to protect axons from retraction after insult, Department of Neurology | 201920182018201820172017 |
| ***Adrian College – Adrian, MI***Modulators of Axon Regeneration, Department of Biology | 2019 |
| ***University of South Carolina- Columbia, SC***RNA Localization and Axon Regeneration, Department of Biological Sciences.  | 2014 |

## Posters

*List all other meeting presentations or posters. List name of meeting, location and date. Include abstract reference if available. Indicate whether oral presentation or poster & if you were the presenter. Include all authors &* ***BOLD*** *your name in list of authors. Indicate any presentations that were peer-reviewed or list in a separate section. See the CV Guide for definitions of local, regional, national.*

### International

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| Local translation of dual leucine zipper kinase in axons, Molecular and Cellular Mechanisms of Axon Degeneration, Loch Lomond, Scotland (poster)HDAC6 inhibition promotes axon growth by altering axonal transport, 5th Annual Axon Degeneration Meeting, Berlin, Germany (poster)Spatial constraints for mRNA targeting to PNS vs. CNS axons, EMBO- From Spatial Signaling to Sensing Spatiality, Dead Sea, Israel (poster) | 201920142013 |
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### National

*Within the USA, excluding New England.*

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| Characterization of the Immune Response to Sciatic Nerve Injury: Implications for Sensory Axon Growth and Regeneration. Society for Neuroscience Annual Meeting, Chicago, IL (poster)Contrasting mRNA levels within actively regenerating sensory and central axons, Keystone Symposia- Growing to extremes: Cell Biology and Pathology of Axons, Tahoe City, CA (poster) | 20192013 |

### Local

*Within UMMS, UMMHC and their affiliated institutions.*

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| --- | --- |
| Local translation of dual leucine zipper kinase in axons, RNA Symposium University of Michigan (presentation) | 2019 |
| Regulation of dual leucine zipper kinase in axons, Cell and Developmental Biology Retreat, Maumee Conference Center, Ohio (poster) | 2018 |

*Outside the USA; include international meetings held in the USA.*

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| mRNAs and protein synthetic machinery localize into regenerating spinal cord axons when they are provided a substrate that supports growth. USC Neuroscience Retreat. University of South Carolina (poster) | 2015 |
| HDAC6 a not-so histone deacetylase. Biology Department Graduate Student Retreat, University of South Carolina (presentation)Spatial constraints for mRNA targeting to PNS vs. CNS axons. Molecular, Cellular and Developmental Biology Department Retreat, University of South Carolina. (poster)Spatial constraints for mRNA targeting to PNS vs. CNS axons. College of Arts and Sciences Research Day, Drexel University. (poster) | 201420132013 |

## Academic Service

## Internal Administration and Service

*Divide into service for Department, School, Health System, and University.*

### Department

|  |  |
| --- | --- |
| Cell and Developmental Biology Outreach Committee, University of Michigan Medical School, Ann Arbor, MICell and Developmental Biology Postdoctoral Fellows Board (Member), Cell and Developmental Biology, University of Michigan Medical School | 20192017-present |
| Biology Graduate Student Association Board (Board Member), Biology Graduate Student Association, University of South CarolinaBiology Graduate Student Association Board, Biology Graduate Student Association, Drexel University Vice President Secretary  | 2013-20152010-20132011-20122010-2011 |

### University

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| --- | --- |
| UMPDA- Postdoctoral Affairs- Chair of Outstanding Postdoctoral Fellow Award, University of Michigan | 2016-2018 |
| UMPDA- Member, fundraising, symposia organization, coffee hour organization,University of Michigan | 2016-2019 |

## Professional Memberships and Activities

*List by organization, noting any leadership and other positions under each organization.*

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| --- | --- |
| National Postdoctoral AssociationMemberAmerican Association for the Advancement of ScienceMemberSociety for NeuroscienceMember | 2015-Present2015-Present2014, 2019 |
| American Society for Biochemistry and Molecular BiologyMember,  | 2014 |

## Editorial Responsibilities

*Indicate role, e.g., reviewer, editor, editorial board*

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| --- | --- |
| Neural Regeneration Research (Journal), Scientific Reviewer | 2016-Present |

## Professional Development- University of Michigan

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| --- |
| *List participation in professional development programs or courses.* |
| UMPDA Career Chat: What do Scientists Need to Know About Big Pharma? University of Michigan Postdoctoral AssociationPhD Careers in Academic Leadership Panel: Office of Graduate and Postdoctoral StudiesMock Study Section, Neurology T32 Training ProgramLet’s Talk: Establishing LGBTQ+ Support and Inclusion, Office of Graduate and Postdoctoral StudiesLet’s Talk: Finding common ground and working together, Office of Graduate and Postdoctoral Studies Unconscious Bias in Everyday Life, Office of Diversity, Equity and Inclusion Training and EducationDisability Awareness and Etiquette, Office of Diversity, Equity and Inclusion Training and Education Change it Up-Bystander Intervention, Office of Diversity, Equity and Inclusion Training and EducationPEERRS (Program for Education and Evaluation in Responsible Research and Scholarship Training  | 201920182018201820172017201720172016 |