

CURRICULUM VITAE

Kenro Kusumi

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EDUCATION

1984-1988	B.A., magna cum laude, Biochemical Sciences Harvard College, Cambridge, MA <i>Undergraduate Advisors: Dan Stinchcomb & Daniel P. Kiehart</i> <i>Thesis: Identification of a Cytoplasmic Myosin-Like Protein in the Nematode C. elegans</i>
1988-1997	Division of Health Sciences and Technology Program Harvard Medical School/Massachusetts Institute of Technology <i>Completed medical school years I-II and USMLE Step 1 Examination</i>
1990-1997	Ph.D., Biology Massachusetts Institute of Technology, Cambridge, MA <i>Graduate Advisor: Eric S. Lander (member, Nat'l Acad Sci)</i> <i>Thesis: Positional Cloning and Characterization of the Mouse Pudgy Locus</i>
1997-1998	Research Scientist Whitehead Institute for Biomedical Research, Cambridge, MA <i>Postdoctoral Mentor: Eric S. Lander (member, Nat'l Acad Sci)</i>
1998-2000	Hitchings-Elion Fellow of the Burroughs Wellcome Fund National Institute for Medical Research, London, UK <i>Postdoctoral Mentor: Robb Krumlauf (member, Nat'l Acad Sci)</i>

FACULTY APPOINTMENTS

2001-2006	Assistant Professor (tenure track appointment), Department of Pediatrics, University of Pennsylvania School of Medicine, Philadelphia, PA
2001-2006	Assistant Professor , Divisions of Human Genetics and Orthopaedic Surgery, The Children's Hospital of Philadelphia, Philadelphia, PA
2002-2006	Assistant Professor (Secondary appointment), Department of Cell & Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia, PA
2006-2014	Associate Professor (with tenure), School of Life Sciences, Arizona State University, Tempe, AZ
2006-present	Associate Professor (2006-2016) and Professor (2016-present), Department of Basic Medical Sciences, The University of Arizona College of Medicine-Phoenix, Phoenix, AZ
2006-present	Adjunct Faculty , Neurogenomics Division, Translational Genomics Research Institute, Phoenix, AZ
2014-present	Professor , School of Life Sciences, Arizona State University, Tempe, AZ
2015	Sabbatical Visitor , Victor Chang Cardiac Research Institute, Darlinghurst, Sydney, Australia (Spring 2015)
2019	Volunteer Faculty Appointment , Mayo Clinic Alix School of Medicine

ADMINISTRATIVE LEADERSHIP APPOINTMENTS

2001-2006	Director of Pediatric Orthopaedic Basic Research , Division of Orthopaedic Surgery, The Children's Hospital of Philadelphia
July – December 2012	Interim Associate Director of Graduate Programs , School of Life Sciences, The College of Liberal Arts and Sciences, Arizona State University
January 2013 – June 2016	Associate Dean of Graduate Programs , Office of the Dean, The College of Liberal Arts & Sciences, Arizona State University.
July 2016 – July 2018	Associate Dean of Research and Graduate Initiatives , Office of the Dean, The College of Liberal Arts & Sciences, Arizona State University.
August 2018 – June 2019	Associate Dean of Research and Digital Initiatives , Office of the Dean, The College of Liberal Arts & Sciences, Arizona State University.
Jan.-2019 – present	Director (July 2019-present) and Interim Director (January-June 2019), School of Life Sciences, The College of Liberal Arts and Sciences, Arizona State University
July 2019 – present	Associate Dean of Strategic Partnerships , Office of the Dean, The College of Liberal Arts & Sciences, Arizona State University.

ADMINISTRATIVE LEADERSHIP TRAINING/MEETINGS

2013	PAC12+3 Arts and Sciences Deans Meeting, Arizona State University, Tempe, AZ, February 28-March 1, 2013.
2013	New Deans Institute and Summer Workshop, Council of Graduate Schools, San Juan, Puerto Rico, July 13-17, 2013.
2014	54 th Annual Meeting, Council of Graduate Schools, December 3-6, 2014, Washington, DC
2014	PAC12+3 Arts and Sciences Deans Meeting, University of Hawaii at Manoa, Honolulu, HI, February 27-28, 2014.
2014	54 th Annual Meeting, Council of Graduate Schools, December 3-6, 2014, Washington, DC
2015	55 th Annual Meeting, Council of Graduate Schools, December 2-5, 2015, Seattle, WA
2016	PAC12+3 Arts and Sciences Deans Meeting, University of Colorado, Boulder, CO, April 10-12, 2016.
2016	Annual Meeting, Association of Public and Land Grant Universities, November 13-15, 2016, Austin, TX
2017	Science-Technology-Engineering-Math Conference in Vietnam (STEMCON), Higher Engineering Education Alliance Program, March 1-2, 2017, Hanoi, Vietnam.
2017	57 th Annual Meeting, Council of Graduate Schools, December 6-9, 2017, Scottsdale, AZ
2018	2018 Fellow, ASU Advanced Leadership Initiative, a 6-month immersive, high-level leadership initiative dedicated to developing and supporting proven leaders, Spring Semester 2018.
2018	100 th Annual Meeting, American Council on Education (ACE), Washington, DC, March 10-13, 2018
2018	PAC12+3 Arts and Sciences Deans Meeting, Oregon State University, Corvallis, OR, April 29-May 1, 2018.
2019	PAC12+3 Arts and Sciences Deans Meeting, Arizona State University, Tempe, AZ, February 21-23, 2019.
2019	101 st Annual Meeting, American Council on Education (ACE), Philadelphia, PA, March 8-12, 2019.
2019	ASUGSV Summit X (Online and educational technology meeting), San Diego, CA, April 8-10.

HONORS & AWARDS

1983	National Winner, NASA Space Shuttle Student Involvement Project
1988	Honors in Biochemical Sciences (<i>magna cum laude</i>), Harvard College
1994-1996	Non-resident tutor (premedical), Winthrop House, Harvard College
1997-present	Sigma Xi Scientific Research Society, Nominated and inducted
1998	Hitchings-Elion Fellowship, Burroughs Wellcome Fund, Postdoctoral Award
2000	Hitchings-Elion Fellowship, Burroughs Wellcome Fund, Faculty Award
2001	Florence R.C. Murray Fellowship, The Children's Hospital of Philadelphia
2001	Young Investigator Award, Mental Retardation & Developmental Disability Research Center, The Children's Hospital of Philadelphia

2002	Nominated for the Pew Scholars Program from the Children's Hospital of Philadelphia
2001-2006 2018	Joseph Stokes, Jr. Investigator, The Children's Hospital of Philadelphia Faculty Speaker, Rainbow LGBTQ Convocation, Arizona State University

RESEARCH INTERESTS

Central Theme	Using genomic technologies to address biomedical and conservation challenges, including regeneration and the conservation of endangered species.
Approaches	Genetics, genomics, regenerative biology, bioinformatics, functional anatomy, comparative morphology
Key words	Genome, gene, regulation, signaling pathway, development, regeneration, bioinformatics, conservation, wildlife, vertebrate, tetrapod, amniote, reptile, mammal, anole, lizard, turtle, tortoise, alligator, mouse, chicken, salamander, evolution, morphology, frog, skeleton, musculoskeletal, spine, scoliosis, spinal column

PROFESSIONAL MEMBERSHIPS

1998-2004	British Society for Developmental Biology
2001-present	Society for Developmental Biology (US)
2001-present	American Society of Human Genetics
2001-present	Harvard Gender & Sexuality Caucus (formerly Harvard Gay & Lesbian Caucus)
2001-2006	International Society for Developmental Biology
2001-2010	International Mammalian Genome Society
2002-2006	Delaware Valley Mouse Club
2006-present	International Consortium for Spinal Genetics, Development, and Disease (formed in 2017 from the merger of the International Consortium for Vertebral Anomalies and Scoliosis, founding member, secretary [2009-2018], and steering committee member and the International Consortium for Scoliosis Genetics)
2008-2009	American College of Medical Genetics
2010-present	<i>Anolis</i> Gene Nomenclature Committee, chair and founding member
2010-2014	Society for Integrative and Comparative Biology
2013-present	National Organization of Gay & Lesbian Scientists & Technical Professionals (NOGLSTP)
2015-present	Pan-American Society for Evolutionary Developmental Biology
2015-present	Desert Tortoise Council
2016-present	American Association of Anatomists

PROFESSIONAL LEADERSHIP AND ORGANIZATION

2001-2006	Co-organizer, Seminar Series of the Division of Human Genetics and the Genes, Genomes and Pediatric Disease Research Affinity Group, The Children's Hospital of Philadelphia
2002-2006	Musculoskeletal Center Seminar organizer, The Children's Hospital of Philadelphia
2002-2006	Notch Pathway Seminar organizer, University of Pennsylvania & The Children's Hospital of Philadelphia
2002-2006	University of Pennsylvania chapter co-organizer, Delaware Valley Mouse Club
2006-2018	Secretary (2009-2018), Steering Committee, and founding member, International Consortium for Spinal Genetics, Development, and Disease
2010-2012	Genome@ASU Monthly Seminar organizer, Arizona State University
2010-present	Chair, <i>Anolis</i> Gene Nomenclature Committee

GRANTS

Current Research Support

Heritage Fund Grant, Wilson Sayres (PI) 1/1/17-12/31/19 NA
 Arizona Dept. of Game & Fish Heritage Fdn. \$33,002 total costs
Characterizing G. morafkai through genomic analyses of hybrids and speciation
 The major goal of this project is to analyze the hybridization zone within the state of Arizona of the Mojave Desert tortoise, *G. agassizii*, and the Sonoran Desert tortoise, *G. morafkai*.
 Role: Co-PI

Grant (Dolby, PI) 1/1/18-2/14/20 NA
 Desert Tortoise Council \$11,992 total costs
Determining the geographical and physiological range limits of Gopherus agassizii
 The major goals of this proposal are to determine the geographic extent and understand the longevity and history of *G. agassizii* in Arizona east of the Colorado River, characterize the historical divergence from and hybridization with *G. morafkai*, perform an initial evaluation of the possible role of species-based differences in water balance may play in reinforcing the distribution limitations of *G. agassizii* and *G. morafkai*, and use these findings to develop proposals for additional funding to perform large-scale gene expression analyses to better understand the physiological differences between these species and their hybrids.
 Role: Internal PI

Collaborative Grant 1925535, Dolby (PI) 10/1/19-9/30/22 0.2 summer
 NSF-IES \$838,431 total costs
Collaborative Research: Testing Evolutionary Psuedocongruence Along the Baja California Peninsula Through Integration of Geologic and Genomic Data
 The major goals of this project to carry out geo-genomic analysis of multiple taxa across the Baja peninsula to test the hypothesis of a mid-peninsular barrier.
 Role: Co-PI/Internal PI

Pending Applications

T34 Haydel (Lead Multi-PI) 6/1/20-5/31/25 0.2 summer

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NIH \$5,781,537 total costs

MARC at Arizona State University

The major goal of this proposal is to develop a pool of diverse scientists who have the technical and professional skills required to conduct ethically-responsible and rigorous research and are prepared for graduate school in the biomedical sciences.

Role: Multi-PI

Completed Research Support

Hitchings-Elion #1152 (Kusumi) 4/1/98-3/31/00 NA

Burroughs Wellcome Fund \$110,000 total costs

Genetic analysis of Notch pathway and HOX regulation in paraxial mesoderm

The major goals of this project is to carry out developmental genetic analysis of mouse *Dll3* and *Hox* mutants.

Role: PI

Florence R.C. Murray Fellowship (Kusumi) 2/1/01-11/30/01 5%

The Children's Hospital of Philadelphia \$30,000 total costs

Defining the Etiology of Delta-like 3 Congenital Malformations of the Spine

The major goals of this project are to identify additional *DLL3* mutations in human congenital vertebral malformation cases, and conduct developmental genetic analysis of the *Dll3-pudgy* mouse model.

Role: PI

1000336.01 (Kusumi) 4/1/01-12/31/07* not spec.

Burroughs Wellcome Fund \$195,750 total costs, *No cost extension

Notch pathway patterning of the mammalian brain and skeleton

The major goals of this project are conduct somite genetic analysis of *Notch* pathway mouse mutants.

Role: PI

Young Investigator Award (Kusumi) 7/1/01-6/30/03 5%

Mental Retardation & Developmental Disability \$18,500/year

Research Center, The Children's Hospital of Philadelphia

*Developmental genetic analysis of the mouse *Dll3* neuroventricular model for human fetal hydrocephalus*

The major goal of this project is to analyze ependymal defects in the *pudgy* and knockout *Delta-like 3* mutants.

Role: PI

Research Grant (Kusumi) 11/1/01-10/31/03 5%

The Philadelphia Foundation \$40,000 total costs

Developmental genetic analysis of the mouse models for human fetal hydrocephalus

The major goal of this project is to analyze neural development in *Notch* pathway mutants.

Role: PI

Research Grant (Kusumi) 1/1/02-12/31/02 5%

Cervical Spine Research Society \$30,000 total costs

Genetic Analysis of Cervical Malformations in Klippel-Feil Syndrome

The major goals of this project are to identify patients with Klippel-Feil syndrome, and initiate linkage analysis mapping of disease loci.

Role: PI

P01 DC02027 (Emanuel) 1/1/02-2/1/04 15%

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NIH-NIDCD \$129,552 total direct costs for CoreC
Velocardiofacial Syndrome-Molecular and Clinical Studies

The major goal of Core C is to bank embryo sections from a range of developmental stages in normal and velocardiofacial syndrome model mutant mice, perform histological, *in situ* hybridization and immunohistochemistry.

Role: Core Director

Research Grant (Kusumi) 7/1/02-6/30/03 10%

Ethel Brown Foerderer Fund for Excellence \$30,000 total costs
Genetic Analysis of Congenital Vertebral Malformations

The major goal of this project is to establish a patient database of children and family members with congenital scoliosis, towards initial molecular screening for disruptions in notch pathway genes.

Role: PI

R01 DK053104 (Spinner) 8/15/02-6/30/06* 10%

NIH-NIDDK \$151,080 total direct costs-Kusumi project

Molecular Analysis in Alagille Syndrome

The major goals of the mouse genetics subproject are to generate double mutant lines of *Jag1* mutation with other *Notch* pathway mutations, and carry out phenotypic analysis of axial skeleton, heart, liver, kidney, and eye development.

Role: Co-investigator* (transition to collaborator on 6/30/06 due to move to ASU)

RO1 AR050687 (Kusumi) 9/29/03-8/31/09* 50%

NIH-NIAMS \$1,087,170 total costs (*No cost extension)

Gene Expression Studies of Early Spinal Development

The major goals of this project are to carry out microarray studies of notch-pathway regulated cycling genes in somitogenesis and early myogenesis in the mouse, and in human mesenchymal stem cells.

Role: PI

5M01RR000240 Project 0572 (Kusumi) 3/1/04-2/28/05 5%

NIH-NCRR

Genetic Analysis of Congenital Vertebral Malformations

The major goal of this project is to establish a patient database of children and family members with congenital scoliosis, towards initial molecular screening for disruptions in notch pathway genes.

Role: PI

S10 RR025646 (Smith) 5/1/09-4/30/10 NA

NIH-NCRR

\$418,785 total costs

Prairie Technologies 2-Photon Microscope

This equipment grant permitted the installation and use of a Prairie Technologies 2-Photon Microscope for cellular analysis of developmental processes.

Role: Co-investigator

Research Contract 1113 (Kusumi) 7/16/10-6/30/13 1 calendar

Arizona Biomedical Research Commission \$337,500 total costs

Transcriptome Analysis and Functional Anatomy of Spinal Cord Regeneration in the Anolis Lizard

The major goals of this project are to analyze the transcriptome of proliferating neuroependymal tissue in tail regeneration of the green anole lizard, *Anolis carolinensis*, using high-throughput RNA-Seq technologies. Functional anatomical analysis will also be carried out on the developing innervation and musculature.

Role: PI

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R21 RR031305 (Kusumi) 9/15/10-8/31/13* 1.5 calendar
NIH-NCRR \$412,606 total costs (*no cost extension)

Developing the Anolis Lizard as a Model for Musculoskeletal Regeneration

The major goals of this project are to identify the genes regulating musculoskeletal regeneration in the tail of the *Anolis carolinensis* lizard and to isolate lizard muscle satellite cells as biological material for research.

Role: PI

LM5 1051 KK (Kusumi) 4/1/11-12/31/13 NA
ASU-Smithsonian Tropical Research Institute \$80,000 total costs

Adaptive evolution and regeneration in Panamanian anole lizards

The major goals of this project are to carry out comparative analysis of autotomy and tail regeneration in Panamanian *Anolis* species, next-gen genomic sequencing of a Panamanian *Anolis* species and comparative analysis of cis-regulatory elements by both candidate and de novo computational discovery approaches, and development of cell culture systems for a Panamanian *Anolis* species for functional analysis.

Role: PI

1S10RR027154 (Duch) 5/1/2011-4/30/2012 NA
NIH-NCRR \$470,658 total costs

Acquisition of a Leica TCS SP5 laser scanning confocal microscope

The goal of this equipment grant is to purchase a Leica TCS SP5 LSCM to permit neuroscientists, molecular biologists, developmental biologists and bioengineers to continue cutting-edge research that relies on quantitative imaging in three dimensions in vivo and in vitro.

Role: Co-Investigator

62084 Kusumi (PI) 1/2/14-8/15/15 NA
Burroughs Wellcome Fund \$10,000

Collaborative Research Travel Grant

Integrating Computational & Biomedical Approaches to Comparative Genomic Analysis

The main goal of this proposal is to support collaboration with bioinformatics approaches to identifying the regulatory networks for regeneration in amniote vertebrates.

Role: PI

R21AR064935 Kusumi (PI) 9/1/13-8/31/16 1.0 calendar
NIH-NIAMS \$344,828 total costs

Connecting the proteome and transcriptome in regeneration

The major goals are to carry out analysis of microRNAs and transcriptome in tail regeneration in the green anole, and to compare with down-regulation of protein by proteomic and bioinformatics analysis.

Role: PI

14071865 Kusumi (PI) 5/1/14-10/31/16 NA
Translational Genomics Research Institute \$45,000 total costs

*Genome reannotation of the African clawed frog, *Xenopus laevis*, for gene expression studies*

The major goal of this project is to reannotate the genome of the classic developmental model, *Xenopus laevis*, as a platform for RNA-Seq based gene expression studies.

Role: PI

LM9 1025 (Kusumi) 2/1/12-12/31/16 NA

Kenro Kusumi

Billy C. Hartman Fund for Spinal Injury Research \$30,000 total costs
Harnessing Conserved Regenerative Mechanisms for Translational Therapies

The major goal of this project is to use next-generation RNA-sequencing technology to identify the specific genes that spearhead spinal cord regeneration and repair.

Role: PI

Visiting Researcher Grant, Kusumi (PI) 8/6/18-8/10/18 NA
FAPESP São Paulo Research Foundation \$2,000

Abordagens Genômicas Aplicadas ao Desenvolvimento, Evolução e Regeneração
Genomic Approaches Applied to Development, Evolution, and Regeneration

This grant supports a one-week course for graduate students in Brazil, held from August 6-10, 2018, at the Ribeirão Preto campus of the University of São Paulo.

Role: PI

G17AC00034 Kusumi (PI) 1/1/17-12/1/18 NA
US Geological Survey \$33,374 total costs

Cooperative agreement for CESU-affiliated University with USGS – Cooperative Ecosystem Studies Unit

The major goal of this proposal is to carry out a quantitative analysis of the transcriptional response of individuals to degraded dietary conditions using RNA-Seq with differential expression statistical analyses.

Role: PI

Blue Waters Allocation (Dolby, PI) 4/16/18-3/31/19 NA
Nat'l Center for Supercomputing Applications 75,000 node hours

Broadening Participation Allocation: Scalable, reproducible inference of eco-geospatial sub-patterns in large genomic datasets

The major goal of this proposal is to carry out genomic analysis of southwestern desert tortoise populations (*Gopherus agassizii* and *G. morafkai*). Blue Waters is a sustained-petascale computing project, supported by the National Science Foundation (awards OCI-0725070 and ACI-1238993) and the state of Illinois. Blue Waters is a joint effort of the University of Illinois at Urbana-Champaign and its National Center for Supercomputing Applications.

Role: Co-PI

PUBLICATIONS

Mentee contributions are indicated as follows:

- Undergraduate students = 1x underline
- Graduate and medical students = 2X underline
- Postdoctoral/medical fellow mentees = jagged underline

Order of authorship:

- • **For peer-reviewed research articles:** Students are generally listed first, provided that they carried out the experiment in its entirety and contributed extensively to writing the manuscript, with senior authors/mentors listed last.
- • **For theoretical and review papers & chapters:** authorship is listed in order of contribution with primary contributor/writer listed first.

Other notations:

- ^ joint 1st author

[Google Scholar Citation Link](#)

[ResearchGate Link](#)

[NIH NCBI My Bibliography Link](#)

**Summary of
Scientific Impact**
(2018 analysis)

Hirsch's h-index = **35** (Google Scholar)
i-10 index = **45** (Google)
Total citations: **6,330** (Google Scholar)
Total refereed research articles, invited reviews, and book chapters: **67**
Impact factors are from Journal Citation Reports (WOK/Thompson Reuters)

**Refereed
Research
Articles**

1. Girard M, Kieny MP, Pinter A, Barre-Sinoussi F, Nara P, Kolbe H, **Kusumi K**, Chaput A, Reinhart T, Muchmore E, Ronco J, Kaczorek M, Gomard E, Gluckman J-C, Fultz PN. Immunization of chimpanzees confers protection against challenge with human immunodeficiency virus. *Proc Natl Acad Sci U S A*. **1991** Jan 15;88(2):542-6. PMID: 1988952
Google: 437 citations *Impact factor: 9.681*
2. Jacob HJ, Lindpaintner K, Lincoln SE, **Kusumi K**, Bunker RK, Mao YP, Ganten D, Dzau VJ, Lander ES. Genetic mapping of a gene causing hypertension in the stroke-prone spontaneously hypertensive rat. *Cell*. **1991** Oct 4;67(1):213-24. [doi: 10.1016/0092-8674\(91\)90584-L](https://doi.org/10.1016/0092-8674(91)90584-L)
Google: 884 *Impact factor: 32.403*
3. **Kusumi K**, Conway B, Cunningham S, Berson A, Evans C, Iversen AK, Colvin D, Gallo MV, Coutre S, Shpaer EG, Faulkner DV, de Ronde A, Volkman S, Williams C, Hirsch MS, Mullins JI. Human immunodeficiency virus type 1 envelope gene structure and diversity in vivo and after cocultivation in vitro. *J Virol*. **1992** Feb;66(2):875-85. PMID: 1731112
Google: 179 citations *Impact factor: 5.402*
4. **Kusumi K**, Smith JS, Segre JA, Koos DS, Lander ES. Construction of a large-insert yeast artificial chromosome library of the mouse genome. *Mamm Genome*. **1993**;4(7):391-2. PMID: 8358173
Google: 99 citations *Impact factor: 2.887*
5. Lisitsyn NA, Segre JA, **Kusumi K**, Lisitsyn NM, Nadeau JH, Frankel WN, Wigler MH, Lander ES. Direct isolation of polymorphic markers linked to a trait by genetically directed representational difference analysis. *Nat Genet*. **1994** Jan;6(1):57-63. [doi:10.1038/ng0194-57](https://doi.org/10.1038/ng0194-57)
Google: 141 citations *Impact factor: 35.532*
6. Hastbacka J, de la Chapelle A, Mahtani MM, Clines G, Reeve-Daly MP, Daly M, Hamilton BA, **Kusumi K**, Trivedi B, Weaver A, Coloma A, Lovett M, Buckler A, Kaitila I, Lander ES. The diastrophic dysplasia gene encodes a novel sulfate transporter: positional cloning by fine-structure linkage disequilibrium mapping. *Cell*. **1994** Sep 23;78(6):1073-87. [doi: 10.1016/0092-8674\(94\)90281-X](https://doi.org/10.1016/0092-8674(94)90281-X)
Google: 744 citations *Impact factor: 32.403*

**Refereed
Research
Articles (cont.)**

7. Hamilton BA, Frankel WN, Kerrebrock AW, Hawkins TL, FitzHugh W, **Kusumi K**, Russell LB, Mueller KL, van Berkel V, Birren BW, Kruglyak L, Lander ES. Disruption of the nuclear hormone receptor RORalpha in staggerer mice. *Nature*. **1996** Feb 22;379(6567):736-9. Erratum in: *Nature* 1996 May 23;381(6580):346. [doi:10.1038/379736a0](https://doi.org/10.1038/379736a0)
Google: 451 citations *Impact factor: 36.280*
8. **Kusumi K**[†], Sun ES, Kerrebrock AW, Bronson RT, Chi DC, Bulotsky MS, Spencer JB, Birren BW, Frankel WN, Lander ES. The mouse pudgy mutation disrupts Delta homologue *Dll3* and initiation of early somite boundaries. *Nat Genet*. **1998** Jul;19(3):274-8. [doi:10.1038/961](https://doi.org/10.1038/961)
Google: 312 citations *Impact factor: 35.532*
9. Ranta S, Zhang Y, Ross B, Lonka L, Takkunen E, Messer A, Sharp J, Wheeler R, **Kusumi K**, Mole S, Liu W, Soares MB, Bonaldo MF, Hirvasniemi A, de la Chapelle A, Gilliam TC, Lehesjoki AE. The neuronal ceroid lipofuscinoses in human EPMR and mnd mutant mice are associated with mutations in CLN8. *Nat Genet*. **1999** Oct;23(2):233-6. [doi:10.1038/13868](https://doi.org/10.1038/13868)
Google: 283 citations *Impact factor: 35.532*
10. Bulman MP[^], **Kusumi K**[^], Frayling TM, McKeown C, Garrett C, Lander ES, Krumlauf R, Hattersley AT, Ellard S, Turnpenny PD. Mutations in the human delta homologue, *DLL3*, cause axial skeletal defects in spondylocostal dysostosis. *Nat Genet*. **2000** Apr;24(4):438-41. [doi:10.1038/74307](https://doi.org/10.1038/74307)
Google: 362 citations *Impact factor: 35.532*
11. **Kusumi K**, Dunwoodie SL, Krumlauf R. Dynamic expression patterns of the pudgy/spondylocostal dysostosis gene *Dll3* in the developing nervous system. *Mech Develop*. **2001** Jan;100(1):141-4. [doi: 10.1016/S0925-4773\(00\)00514-1](https://doi.org/10.1016/S0925-4773(00)00514-1)
Google: 23 citations *Impact factor: 2.833*
12. Barclay J, Balaguero N, Mione M, Ackerman SL, Letts VA, Brodbeck J, Canti C, Meir A, Page KM, **Kusumi K**, Perez-Reyes E, Lander ES, Frankel WN, Gardiner RM, Dolphin AC, Rees M. Ducky mouse phenotype of epilepsy and ataxia is associated with mutations in the *Cacna2d2* gene and decreased calcium channel current in cerebellar Purkinje cells. *J Neurosci*. **2001** Aug 15;21(16):6095-104. PMID: 11487633
Google: 280 citations *Impact factor: 7.115*
13. ~~Pierz KA~~, Stieber JR, **Kusumi K**, Dormans JP. Hereditary multiple exostoses: one center's experience and review of etiology. *Clin Orthop Relat R*. **2002** Aug;(401):49-59. [doi: 10.1097/01.blo.0000022195.37246.f6](https://doi.org/10.1097/01.blo.0000022195.37246.f6)
Google: 92 citations *Impact factor: 2.533*
14. Turnpenny PD, ~~Whitlock N~~, Duncan J, Dunwoodie S, **Kusumi K**, Ellard S. Novel mutations in *DLL3*, a somitogenesis gene encoding a ligand for the

**Refereed
Research
Articles (cont.)**

- Notch signalling pathway, cause a consistent pattern of abnormal vertebral segmentation in spondylocostal dysostosis. *J Med Genet.* **2003** May;40(5):333-9. [doi:10.1136/jmg.40.5.333](https://doi.org/10.1136/jmg.40.5.333)
Google: 112 citations *Impact factor: 6.365*
15. Sparrow DB, Clements M, Withington SL, Scott AN, Novotny J, Sillence D, **Kusumi K**, Beddington RS, Dunwoodie SL. Diverse requirements for Notch signalling in mammals. *Int J Dev Biol.* 2004;46(4):365-74. PMID: 12141422
Google: 36 citations *Impact factor: 2.82*
16. **Kusumi K**, Mimoto MS, Covello K, Beddington RSP, Krumlauf R, Dunwoodie SL. The *Dll3* pudgy mutation differentially disrupts dynamic expression of somite genes. *Genesis*, **2004** Jun;39(2):115-21. [doi: 10.1002/gene.20034](https://doi.org/10.1002/gene.20034)
Google: 40 citations *Impact factor: 2.527*
17. Erol B, Tracy MR, Dormans JP, Zackai EH, Maisenbacher MK, O'Brien ML, Turnpenny PD, **Kusumi K**. Congenital Scoliosis and Vertebral Malformations: Characterization of Segmental Defects for Genetic Analysis. *J Pediatr Orthoped.* **2004** Nov-Dec;24(6):674-682. PMID: 15502569
Google: 53 citations *Impact factor: 1.156*
18. Maisenbacher MK, Han JS, O'Brien ML, Tracy MR, Erol B, Schaffer AA, Dormans JP, Zackai EH, **Kusumi K**. Molecular analysis of congenital scoliosis: a candidate gene approach. *Hum Genet.* 2005 Apr;116(5):416-419. Epub **2005** Feb 17. [doi: 10.1007/s00439-005-1253-8](https://doi.org/10.1007/s00439-005-1253-8)
Google: 60 citations *Impact factor: 5.069*
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**Invited Research
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1. Pourquié O, **Kusumi K**. When body segmentation goes wrong. *Clin Genet*. **2001** Dec;60(6):409-16. [doi: 10.1034/j.1399-0004.2001.600602.x](https://doi.org/10.1034/j.1399-0004.2001.600602.x)
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Invited Research Reviews (cont.)

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Google: 5 citations *Impact factor: 1.473*
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11. **Kusumi K**. Investigating Regeneration: Extended Rebuilding Capacity. *Dev Cell*. **2017** 43:375. [DOI: 10.1016/j.devcel.2017.11.009](https://doi.org/10.1016/j.devcel.2017.11.009)
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Book Chapters

1. Loomes K, **Kusumi K**, Spinner NB. Notch Genes, in *Wiley Encyclopedia of Molecular Medicine*, Creighton, T.E., ed. New York: John Wiley & Sons, Inc., **2002**. DOI: [10.1002/0471203076.emm1216](https://doi.org/10.1002/0471203076.emm1216)
2. Turnpenny PD, **Kusumi K**. Delta-like 3 and spondylocostal dysostosis. *Molecular Basis of Inborn Errors of Development*, Epstein CJ, Erickson RP, Wynshaw-Boris A, eds. Oxford University Press: New York, 470-481, **2004**.
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3. **Kusumi K**, Sewell W, O'Brien ML. "Mouse mutations disrupting somitogenesis and vertebral patterning" in *Somitogenesis*, Maroto M and Whittock NV, ed., Vol. 638 of *Advances in Experimental Medicine and Biology*, Springer Science+Business Media LLC/Landes Bioscience: Austin, TX, 140-163, **2008**.
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7. Turnpenny PD, **Kusumi K**, Dunwoodie SL. *DLL3, MESP2, LFNG, HES7, TBX6, RIPPLY2 and Spondylocostal Dysostosis, Molecular Basis of Inborn Errors of Development, 3rd Edition*. Epstein CJ, Erickson RP, Wynshaw-Boris A, eds. Oxford University Press: New York, **2016**, p. 559-570. ISBN-13: 978-0199934522
8. Xu C, Grizante MB, and **Kusumi K**. "Somitogenesis and axial development in Reptiles," in *Avian and Reptilian Developmental Biology*, Sheng G, Ed. *Methods Molecular Biology*, **2017**, p. 335-353. Vol. 1650, ISBN: 978-1-4939-7216-6, Springer Science+Business Media LLC: New York.

Edited Books

1. **Kusumi K**, Dunwoodie SL, eds. *The Genetics and Development of Scoliosis*. Springer: New York, **2010**. ISBN 978-1-4419-1406-4.
2. Wilson-Rawls J, **Kusumi K**, eds. *Regenerative Medicine and Stem Cells: Innovations in Molecular Mechanisms and Tissue Engineering*. Springer: New York, **2016**. ISBN 978-3-319-44996-8
3. **Kusumi K**, Dunwoodie SL, eds. *The Genetics and Development of Scoliosis, 2nd Ed*. Springer: New York, **2018**. ISBN 978-3-319-90149-7
[doi:10.1007/978-3-319-90149-7](https://doi.org/10.1007/978-3-319-90149-7)

Other Products

1. Dolby GA, Pataranutaporn P, Jacobs DK, Kusumi K. *Sea level & genetic diversification*. 2017. Vimeo. <https://vimeo.com/219921821>

Peer reviewed abstracts in the last 5 years – student/postdoc cont.

1. Hutchins ED, Eckalbar WL, Pendarvis K, McCarthy F, Lake DF, Kusumi K. “Connecting the transcriptome, microRNAs, and the proteome in tail regeneration of the green anole lizard, *Anolis carolinensis*.” Plant and Animal Genome XXIII Conference, San Diego, CA. January 10-14, **2015**.
2. Cornelius J, Van Keuren-Jensen K, Huang L-C, Courtwright A, Malenica A, Cline H, Kusumi K. “Genome Annotation of the Genetic Model, *Xenopus laevis*, Enriched for the Developing Central Nervous System.” Plant and Animal Genome XXIII Conference, San Diego, CA. January 10-14, **2015**.
3. Hutchins ED, Eckalbar WL, Tokuyama MA, Tollis M, Lake DF, McCarthy F, Huentelman MJ, Wilson-Rawls J, Kusumi K. “Connecting the transcriptome, microRNAs, and the proteome in tail regeneration of the green anole lizard, *Anolis carolinensis*.” 2015 Musculoskeletal Development and Regeneration Conference, Cancun, Mexico. February 6-9, **2015**.
4. Hutchins ED, Eckalbar WL, Pendarvis K, McCarthy F, Lake DF, Kusumi K. “Integrated transcriptomic, proteomic, and microRNA data identify key regulators of developmental and repair processes during tail regeneration in the green anole lizard.” American Association of Anatomists Annual Meeting, Boston, MA, March 28-31, **2015**. Published in *FASEB J* 29 (1 Supplement), 346.3
5. Robertson J, Garns B, Gilpin S, Jordan M, Elkins M, Kusumi K, Fisher R. “Forelimb anatomy of three anole lizards: *Anolis equestris*, *A. frenatus*, and *A. biporcatus*.” American Association of Anatomists Annual Meeting, Boston, MA, March 28-31, **2015**. Published in *FASEB J* 29 (1 Supplement), 865.12
6. Grizante MB, Kusumi K, Kohlsdorf T. Evolution of the axial skeleton in squamates: contributions from a developmental perspective. Inaugural 2015 Meeting, Pan-American Society for Evolutionary Developmental Biology, Clark Kerr Campus, University of California Berkeley. August 5-9, **2015**.
7. Huang L-C, Cornelius J, Yeri A, Kusumi K, Van Keuren-Jensen K, Cline HT Transcriptome Analysis of Neural Progenitor Cells and Young Neurons of Optic Tectum in *Xenopus laevis*. Society for Neuroscience Annual Meeting, Chicago, IL, October 17-21, **2015**.
8. Djordjevic D, Hutchins ED, Cornelius JA, Kusumi K, Ho JW. *XGSA: An unbiased statistical method to perform cross-species gene set analysis*. Australian Bioinformatics And Computational Biology Society Conference 2015. Sydney, NSW, Australia. October 10-11, **2015**.

Peer reviewed abstracts in the last 5 years – student/postdoc cont.

9. Chapman G, Dunwoodie SL, **Kusumi K**, Fisher RE. The application of iodine-enhanced micro-CT scanning protocols to analyze multiple tissue types and organ systems in mouse embryos with short-term gestational hypoxia. American Association of Anatomists Annual Meeting, San Diego, CA, April 2-5, **2016**.
10. Tollis M, Hutchins ED, Stapley J, Eckalbar WL, Rupp SM, Inbar Maayan I, Wilson Sayres M, Fisher R, **Kusumi K**. Multiple Genomes Reveal Accelerated Evolution in Conserved Pathways During Anolis Lizard Adaptive Radiations. Understanding History And Process In Rapid Diversification With Genomic Data Spotlight Session, Society for the Study of Evolution, Austin, TX, June 17, **2016**.
11. Tokuyama M, Xu C, Fisher RE, Wilson-Rawls J, **Kusumi K**, Newbern J. Formation of Neuromuscular Junctions in the Regenerating Lizard Tail Recapitulates Developmental Processes, 75th Annual Meeting, Society of Developmental Biology, Boston MA, August 4-8, **2016**.
12. Dolby G, DeNardo DF, **Kusumi K**. Progress towards a Sonoran Desert tortoise genome to advance conservation and wildlife management. Desert Tortoise Council 42nd Annual Symposium, Las Vegas NV, Feb. 24-26, **2017**.
13. Dolby GA, Webster TH, DeNardo D, Wilson Sayres MA, **K Kusumi**. Extrinsic forcing of genomic evolution during speciation: a geo-genomic study of *Gopherus* desert tortoises. Plant and Animal Genome XXVI Conference, San Diego, CA, Jan. 13-17, **2018**.
14. Dolby GA, Webster TH, DeNardo D, Wilson Sayres MA, **K Kusumi**. Geologic history and genomic divergence between *Gopherus agassizii* and *G. morafkai*. Desert Tortoise Council 43rd Annual Symposium, Las Vegas, NV, Feb. 23-25, **2018**.
15. Webster TH, Dolby GA, DeNardo D, **K Kusumi**, Wilson Sayres MA. A genomic view of adaptation and population history in desert tortoises. Desert Tortoise Council 43rd Annual Symposium, Las Vegas, NV, Feb. 23-25, **2018**.
16. Palade J, Djordjevic D, Hutchins ED, George R, Cornelius JA, Rawls A, Ho JWK, **Kusumi K**, Wilson-Rawls J. Identification of satellite cells from anole lizard skeletal muscle and demonstration of increased musculoskeletal potential. 2018 Anolis Symposium, Fairchild Tropical Garden, Miami, FL, March 17-18, **2018**.
17. Xu C, Tokuyama MA, Hutchins ED, Fisher RE, Wilson-Rawls J, Newbern J, **Kusumi K**. Tail regeneration in anole lizards: Insights from comparative genomic analysis and reformation of the peripheral motor nervous system. 2018 Anolis Symposium, Fairchild Tropical Garden, Miami, FL, March 17-18, **2018**.

Peer reviewed abstracts in the last 5 years – student/postdoc cont.

18. Dolby G, Xu C, Drake K, Esque T, **Kusumi K**. Understanding Mojave desert tortoise immunity using RNA-Seq molecular approaches. 44th Annual Desert Tortoise Council Meeting, Tucson, AZ, February 22-24, **2019**.
19. Orton J, Morales M, Dolby GA, Schmidlin K, Fontenele RS, Kraberger S, Webster T, Wilson Sayres M, **Kusumi K**, Varsani A. Virus discovery in Mojave and Sonoran Desert tortoises. 44th Annual Desert Tortoise Council Meeting, Tucson, AZ, February 22-24, **2019**.
20. Morales M, Dolby GA, **Kusumi K**. Mining genomes to reveal the evolution of gene families in reptiles relevant to tortoise health. 44th Annual Desert Tortoise Council Meeting, Tucson, AZ, February 22-24, **2019**.
21. Dolby GA, Webster TH, DeNardo D, Wilson Sayres M, **Kusumi K**. Genomic insights into speciation of southwestern desert tortoises. 44th Annual Desert Tortoise Council Meeting, Tucson, AZ, February 22-24, **2019**.
22. Dolby GA, Webster TH, DeNardo D, Wilson Sayres M, **Kusumi K**. Population genomic analysis of speciation among threatened desert tortoises. Evolution 2019. Providence, RI, June 21-25, 2019.

Peer reviewed abstracts within the last 5 years – Kusumi presentations

1. Hutchins ED, Djordjevic D, Cornelius JA, Ho JWK, **Kusumi K**. The Evolution of Regenerative and Developmental Gene Networks in Vertebrates: Insights from Comparative Genomic Studies. Inaugural 2015 Meeting, Pan-American Society for Evolutionary Developmental Biology, Clark Kerr Campus, University of California Berkeley. August 5-9, **2015**.
2. Tollis M, DeNardo DF, Cornelius JA, Edwards T, Karl AE, Henen BT, Rico Y, Murphy RW, **Kusumi K**. A Draft Genome Sequence for Agassiz's Desert Tortoise (*Gopherus agassizii*): a Resource for the Conservation of a Threatened Species. Desert Tortoise Council 41th Annual Symposium, Las Vegas NV, Feb. 19-21, **2016**.
3. Hutchins ED, Djordjevic D, Cornelius JA, Dolby GA, Ho JWK, **Kusumi K**. The Evolution of Regeneration in Reptiles and Amphibians: Insights from Comparative Genomic Analysis of Gene Regulatory Networks. Symposium on Amphibian & Reptile Genomics: Recent Success, Current Progress, and Future Challenges. 8th World Congress of Herpetology, Hangzhou, Zhejiang, China, August 15-21, **2016**.
4. **Kusumi K**. The Evolution of Regeneration in Reptiles. Southwestern Regional Meeting of the Society for Developmental Biology, MD Anderson Cancer Research Center, Houston, TX, October 5-7, **2017**.

Peer reviewed abstracts within the last 5 years – Kusumi presentations, cont.

5. Tollis M, Hutchins ED, Stapley J, Rupp SM, Maayan I, Lasku E, DeNardo DF, Hsieh ST, Sanjur O, Wilson Sayres M, Fisher RE, Wilson-Rawls J, Newbern J, **Kusumi K**. Comparative genomics reveals accelerated evolution in conserved pathways during anolis diversification. 2018 Anolis Symposium, Fairchild Tropical Garden, Miami, FL, March 17-18, **2018**.

Peer reviewed abstracts in the last 5 years – collaborators

1. Palade J, George R, Hutchins E, Cornelius J, Rawls A, **Kusumi K**, Wilson-Rawls J. Satellite cells: not just for muscle. Molecular and Cellular Basis of Growth and Regeneration, Keystone Symposia, Beaver Run Resort, Breckenridge, CO, Jan. 10-14, **2016**.
2. Edwards T, Tollis M, Hsieh P, Gutenkunst RN, Liu Z, **Kusumi K**, Culver M, Murphy RW. The process of speciation among the three lineages of desert tortoise. Desert Tortoise Council 41th Annual Symposium, Las Vegas NV, Feb. 19-21, **2016**.
3. Chapman G, Dunwoodie SL, **Kusumi K**, Fisher RE. The application of iodine-enhanced micro-CT scanning protocols to analyze multiple tissue types and organ systems in mouse embryos with short-term gestational hypoxia. American Association of Anatomists Annual Meeting, San Diego, CA, April 2-5, **2016**. Published in FASEBJ 30(1 Supplement): 780.2.

INVITED COLLOQUIA (Last 5 Years)

- | | |
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| 2014 | “A Tale of Two Tails: Development and Regeneration in the Lizard Model.”
Midwestern University, Glendale, AZ. April 16, 2014. |
| 2014 | “Reptile evolutionary genomics.” University of Würzburg, Germany. May 23, 2014. |
| 2014 | “Regeneration of the Lizard Tail: From Transcriptome to Proteome.”
Developmental and Stem Cell Biology Division, Victor Chang Cardiac
Research Institute, Sydney, Australia. June 15, 2014. |
| 2014 | “Tail Regeneration in the Green Anole Lizard.” Arizona State University, Dept.
of Animal Care and Technology. August 7, 2014. |
| 2014 | “How the lizard loses and regrows its tail: insights from anatomical, cellular,
and genomic studies.” Arizona State University–Polytechnic Campus, School of
Letters and Sciences. October 21, 2014. |
| 2014 | “Comparative genomics in the life sciences.” Arizona State University, School
of Life Sciences, December 5, 2014. |
| 2015 | “Lessons from regeneration in lizards and tadpoles.” Special Institute Seminar,
Victor Chang Cardiac Research Institute, Sydney, Australia. March 6, 2015. |

- 2015 “How the lizard loses and regenerates its tail: insights from genomic, cellular, and anatomical studies.” Australian Regenerative Medicine Institute, Monash University, Melbourne, Australia. March 20, 2015.
- 2015 “How the lizard loses and regenerates its tail: insights from genomic, cellular, and anatomical studies.” Institute for Human Genetics, University of California, San Francisco. April 17, 2015.
- 2015 “Musculoskeletal Regeneration: Lessons from genomic studies of lizards and tadpoles.” Dept. of Orthopaedic Surgery, Duke University School of Medicine, Durham, NC. May 18, 2015.
- 2015 “Identifying the genetic toolkit for regeneration in vertebrates: Insights from comparative genomic analysis.” School of Biological and Health Systems Engineering graduate seminar, Arizona State University. August 28, 2015.
- 2017 “The evolution of regeneration in reptiles.” 2017 Southwest Regional Meeting, Society for Developmental Biology, Houston, TX. October 5-7, 2017
- 2017 “Regeneration in reptiles.” Scientific Meeting in Honor of Robb Krumlauf’s Election to the National Academy of Sciences, Stowers Institute for Medical Research, Kansas City, MO. September 29-30, 2017.
- 2017 “Identifying the genetic toolkit for regeneration in vertebrates: Insights from comparative genomic analysis.” Department of Biomedical Informatics Seminar, College of Health Solutions, Scottsdale, AZ. October 20, 2017.
- 2018 “The Promise of Future Spinal Musculoskeletal, Central and Peripheral Nervous System Regenerative Therapies: Lessons from the Lizard.” The International Consortium for Spinal Genetics, Development, and Disease Conference, Shenzhen and Guangzhou, China, April 6-8, 2018.
- 2018 “Identifying the genetic toolkit for regeneration in vertebrates: Insights from comparative genomic analysis.” Department of Biology, University of São Paulo, Ribeirão Preto, Brazil, August 8, 2018.
- 2019 “Genomic Insights into the Evolution of the Threatened *Gopherus* Desert Tortoises and *Anolis* Lizard Adaptive Radiation.” Australian Wildlife Conservation Group, University of Sydney, Australia, June 4, 2019.

COURSE TEACHING EXPERIENCE

Undergraduate Courses

- BIO 351 **Developmental Biology**, Co-Instructor, Arizona State Univ., Tempe AZ
Semesters taught: **Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015**. Highest enrollment 292 students.
Faculty teaching score 1.26-1.4 (5 pt scale, 1=excellent and 5=poor)
- BIO 352 **Developmental Anatomy Lab**, Co-Instructor, Arizona State Univ., Tempe AZ
Semesters taught: **Spring 2012, Spring 2013**. Highest enrollment 48 students.
Faculty teaching score 1.3-1.8 (5 pt scale, 1=excellent and 5=poor)
- BIO 340 **General Genetics**, Co-Instructor, Arizona State Univ., Tempe AZ
Semesters taught: **Spring 2011**. Highest enrollment 275.
Faculty teaching score 1.0-1.3 (5 pt scale, 1=excellent and 5=poor)
- LIA 194 **Freshman Discovery Seminar–The 22nd Century: Science vs Science Fiction**, Instructor, Arizona State Univ., Tempe AZ
Semesters taught: **Fall 2017, Fall 2018**

Medical Courses	UA College of Medicine-Phoenix in Partnership with ASU, in fulfillment of full ASU teaching load 2006-2010
MSS	Musculoskeletal Systems (MSS) , Block Director, University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Years taught: Spring 2008, Spring 2009, Spring 2010 . Highest enrollment 48 first year medical students. UA Faculty teaching score range 3.6-3.87 (UA 4 pt scale, 1=strongly negative and 4=strongly positive)
GIMDO	Gastrointestinal System, Metabolism, Diabetes, and Obesity (GIMDO) , Case Based Instruction Facilitator and Exam Committee Member, University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Years taught: Fall 2008, Fall 2009 . Highest enrollment 48 second year medical students.
Graduate Courses	
BIO 543	Molecular Genetics & Genomics , Instructor, Arizona State Univ., Tempe AZ Semesters taught: Spring 2017, Spring 2018 Faculty teaching score: 1.7 (5 pt scale, 1=excellent and 5=poor)
MCB 556	Advanced Molecular & Cellular Biology II , Co-Instructor, Arizona State Univ., Tempe AZ Semesters taught: Spring 2011, Spring 2012, Spring 2013 . Faculty teaching score 1.17-2.3 (5 pt scale, 1=excellent and 5=poor)
MCB 591	Seminar-Next Gen Sequencing and Bioinformatics , Co-Instructor, Arizona State Univ., Tempe AZ. Semester taught: Fall 2011 . Faculty teaching score 1.4 (5 pt scale, 1=excellent and 5=poor)
MCB 591	Seminar-Regeneration & Stem Cells , Co-Instructor, Arizona State Univ., Tempe AZ. Semester taught: Fall 2012, Fall 2015 . Faculty teaching score 1.0 (5 pt scale, 1=excellent and 5=poor)
MCB 591	Seminar-Neural Development & Regeneration , Co-Instructor, Arizona State Univ., Tempe AZ. Semester taught: Fall 2016 . Faculty teaching score 2.2 (5 pt scale, 1=excellent and 5=poor)
MCB 591	Seminar: Mammalian genetics and development , Co-Instructor, Arizona State Univ., Tempe AZ. Semester taught: Fall 2009, Spring 2010 . Faculty teaching score 1.0 (5 pt scale, 1=excellent and 5=poor)
MCB 701	Molecular & Cellular Biology Colloquium , Co-Instructor, Arizona State University, Tempe AZ. Semesters taught: Fall 2011, Spring 2012, Fall 2012 . Faculty teaching score 1.4-1.7 (5 pt scale, 1=excellent and 5=poor)
International Graduate Courses	Genomic Approaches Applied to Development, Evolution, and Regeneration (Abordagens Genômicas Aplicadas ao Desenvolvimento, Evolução e Regeneração), Instructor, Department of Biology, University of São Paulo, Ribeirão Preto, Brazil. 25 contact hours. August 6-10, 2018 .
Guest Lectures	
BIO 340	General Genetics , Instructor: Stephen Pratt. Spring 2011, two guest lectures.
BIO494	Topic: Tissue Regeneration and Stem Cell Biology , Instructor: Rob Harris. Fall 2018, one guest lecture.

Kenro Kusumi

EVO 610	Research Areas of Evolution , Instructor: Melissa Wilson Sayres. Spring 2017, Fall 2017, Fall 2018 – one lecture each semester.
MBB 440	Functional Genomics , Instructor: Wim Vermaas. Spring 2012, three guest lectures.
MCB 555	Advanced Molecular & Cellular Biology I , Instructor: Brian Smith. Fall 2012-2017, one guest lecture annually.
MCB 556	Advanced Molecular & Cellular Biology II , Instructor: Rajeev Misra. Spring 2008, one guest lecture; 2016, three guest lectures; 2019, one guest lecture
MBLD	Molecular Basis of Life and Disease (MBLD) , Block Director: Paul Boehmer/Kurt Gustin. University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Fall 2007, Fall 2008, Fall 2009. Five guest lectures each year.
NEI	Nervous, Endocrine and Immune Systems (NEI) , Block Director: Ron Hammer/Cindi Standley. University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Winter 2007, Winter 2008, Winter 2009. One guest lecture each year.
CPR	Cardiovascular, Pulmonary, and Renal Systems (CPR) , Block Director: Paul Standley. University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Winter 2007, Winter 2008, Winter 2009. One guest lecture each year.
RGDLS	Reproduction, Growth, Development, and Life Span (RGDLS) , Block Director: Jeanne Wilson-Rawls. University of Arizona College of Medicine-Phoenix in Partnership with Arizona State University, Phoenix, AZ. Winter 2007, Winter 2008, Winter 2009. Two guest lectures each year.

SERVICE: International and National

Editorial Boards

2007-present	<i>Developmental Biology</i>
2013-present	<i>Journal of North American Herpetology</i>

Special Issue Ed.

2012	“Thematic Papers: Regeneration in Non-Mammalian Vertebrates.” <i>Anatomical Research</i>
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Invited Ad Hoc

Journal Review

2010	<i>American Journal of Medical Genetics</i>
2017	<i>Anatomical Record</i>
2016-2018	<i>BMC Genomics</i>
2010	<i>Case Reports in Medicine</i>
2005	<i>Clinical Genetics</i>
2005, 2006	<i>Clinical Orthopaedics</i>
2016	<i>Connective Tissue Research</i>
20000-present	<i>Developmental Biology</i> (17 reviews total)
2002, 2007, 2015	<i>Developmental Dynamics</i>
2000, 2013, 2015	<i>Development</i>
2016	<i>Development, Genes, and Evolution</i>
2019	<i>Developmental and Comparative Immunology</i>
2009	<i>GeneReviews</i>
2012	<i>Genes</i>

Kenro Kusumi

2016	<i>Genes Development and Evolution</i>
2007	<i>Genesis</i>
2015, 2016	<i>Gigascience</i>
2011	<i>Human Genetics</i>
2008-2012, 2014-2015	<i>Human Molecular Genetics</i> (4 reviews)
2010	<i>Human Mutation</i>
2005	<i>IEEE Transactions in Nanobioscience</i>
2009	<i>Indian Journal of Orthopaedics</i>
2012	<i>Journal of Cytology and Histology</i>
2012	<i>Journal of Cytology and Histology</i>
2015	<i>Journal of Developmental Biology</i>
2009	<i>J. of Experimental Biology Part B: Molecular & Developmental Evolution</i>
2013	<i>Journal of Heredity</i>
2011	<i>Mammalian Genome</i>
2012	<i>Mechanisms of Development</i>
2008-2009	<i>Molecular Biology & Evolution</i>
2010	<i>Nature</i>
2010	<i>Nature Communications</i>
2018	<i>Nature Ecology & Evolution</i>
2016	<i>Naturwissenschaften</i>
2003	<i>Neuron</i>
2008	<i>Physiological Genomics</i>
2009	<i>PloS Genetics (Public Library of Science Genetics)</i>
2013,2017	<i>PloS ONE</i>
2009, 2018	<i>Proceedings of the National Academy of Sciences USA</i>
2014, 2015	<i>Regeneration</i>
2014	<i>Science</i>
2016	<i>Science Advances</i>
2010	<i>Science Signaling</i>

Grant Reviews

	<i>National Institutes of Health, Ad hoc reviewer</i>
2004	National Institute of Arthritis and Musculoskeletal and Skin Diseases R21 Special Review Committee
2005, 2006	DEV-2 (Development-2 Study Section),
2005	DEV-1 (Development-1 Study Section)
2015	ZHD1 (Genetic/Genomic Approaches to Human Dysmorphology Study Section) ZRG1 CB-T (Member Conflict: Cell Biology, Signaling, and Development Study Section)
2016	ZHD1 DSR-Y (National Institute of Child Health and Human Development Special Emphasis Panel)
2016	ZEY1 VSN (09) 2 (NEI RFA-EY-15-002 Factors Influencing Neural Regeneration in the Visual System)
2019	ZGM1 TRN-A (CF) Special Emphasis Panel (R13 Conference grants)
	<i>National Institutes of Health, Standing Study-Section Member</i>
2006-2010	Dev-2 (Development-2 Study Section), 3 review sessions annually

	<i>National Science Foundation, Ad hoc reviewer</i>
2008	MCB Cellular Systems
2009	DBI Advances in Bioinformatics
2010, 2017	Integrative Organismal Systems, BIO Directorate
2007	German Research Council (Deutsche Forschungsgemeinschaft, DFG), <i>ad hoc</i> reviewer
2007	ASU Internal Reviewer (Science Foundation Arizona Competitive Advantage Award proposals), Office of VP for Research & Economic Affairs, Arizona State University
2008	Wellcome Trust (UK), <i>ad hoc</i> reviewer
2008	ASU-Mayo Clinic Arizona Seed Grant review panel member, Office of the Vice President for Biomedical Affairs and Clinical Partnerships, ASU
2010, 2012	Medical Research Council, United Kingdom, <i>ad hoc</i> reviewer
2012	Scoliosis Research Society, <i>Ad hoc</i> reviewer
2012	South Carolina Experimental Program to Stimulate Competitive Research and Institutional Development Awards, <i>Ad hoc</i> reviewer
2014	National Science Foundation, <i>Ad hoc</i> reviewer Integrative Organismal Systems, BIO Directorate
2015, 2016	Health Research Council of New Zealand, <i>Ad hoc</i> reviewer

Local Organizational Committees

2009	Organizer, “ASU Molecular & Cellular Biology Interdisciplinary Graduate Program Scientific Retreat,” September 18, 2009, 9:30am-3:00pm, The University of Arizona College of Medicine-Phoenix in partnership with Arizona State University, Phoenix, AZ
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National/International Organizational Committees

2002	Co-Moderator, Session 41: Molecular Basis of Mendelian Inheritance II, 52 nd Annual Meeting of the American Society of Human Genetics, October 15-19, 2002, Baltimore, MD
2004	Co-organizer, Workshop on Congenital Scoliosis, November 2, 2005, Stowers Institute for Medical Research, Kansas City, KS
2005	Co-organizer, Segmentation Meeting 2005, July 27, 2005, San Francisco, CA, satellite meeting to the 64 th Annual Meeting of the Society for Developmental Biology (over 140 attendees, funded by the March of Dimes and the Society for Developmental Biology)
2007	Co-organizer, “Somitogenesis: From Models to Therapeutics Meeting 2007”, June 16, 2007, Cancun, Mexico, Satellite meeting to the 66 th Annual Meeting of the Society for Developmental Biology and First Pan-American Congress in Developmental Biology, Cancun, Mexico.
2008	Organizer, “Symposium on Idiopathic and Congenital Scoliosis: Genetics and Current Approaches,” March 15, 2008, 12:30-5:30pm, University of Arizona College of Medicine–Phoenix in Partnership with Arizona State University, Phoenix, AZ.
2008	Session Organizer, “Straightening out the Curves: Understanding the Genetic Basis of Idiopathic and Congenital Scoliosis,” at the 2008 American

	College of Medical Genetics Annual Meeting, March 16, 2008, 8-10am, Phoenix Convention Center, Phoenix, AZ.
2012	Moderator, “Session IV: Collaborative Studies,” First Meeting of the Idiopathic Scoliosis Genetics Interest Group, October 14-16, 2012, Texas Scottish Rite Hospital, Dallas, TX
2017	Organizing Committee Member, International Consortium for Vertebral Anomalies and Scoliosis (ICVAS) and International Consortium for Scoliosis Genetics (ICGS) Conference, March 16-18, 2017, Texas Scottish Rite Hospital, Dallas, TX.
2018	Organizing Committee Member, International Consortium for Scoliosis Genetics, Development, and Disease, April 6-9, 2018, University of Hong Kong Shenzhen Hospital, Shenzhen, and Sun Yat Sen University, Guangzhou, People’s Republic of China

National Advisory Committees

2009-present	Herbert J. Louis Endowment Advisory Board for the Center for Pediatric Orthopaedics, Phoenix Children’s Hospital, Phoenix, AZ
2016-present	NIH P01 grant Developmental Mechanisms of Human Idiopathic Scoliosis scientific advisory committee, Texas Scottish Rite Hospital for Children, Dallas, TX

SERVICE: *University, College and Department*

University and College

2001-2006	Member, Institutional Animal Care and Use Committee, The Children’s Hospital of Philadelphia
2005-2006	Member, Proposal Preparation, Submission and Award Management Task Force, Joseph Stokes, Jr. Research Institute of The Children’s Hospital of Philadelphia
2004-2006	Member, Laboratory Animal Facility Planning Committee, Joseph Stokes, Jr. Research Institute of The Children’s Hospital of Philadelphia
2005-2006	Member, Bioinformatics Core Facility advisor board, Joseph Stokes, Jr. Research Institute of The Children’s Hospital of Philadelphia
2007-2010	Executive Committee Member (2009-2010) and Member (2007-2010), Admissions Committee (MD Program), UA College of Medicine-Phoenix in partnership with ASU
2007-2008	Member, College Web Committee, University of Arizona College of Medicine-Phoenix in partnership with Arizona State University
2007-2009	Member, Phoenix Biomedical Campus-Arizona Biomedical Collaborative Building 2 Oversight Committee, Arizona State University
2007-2012	Chair (2011-present) and Member (2007-2011), Animal Users Advisory Committee, Arizona State University
2009-2011	Faculty Advisor, Gay-Straight Alliance, University of Arizona College of Medicine-Phoenix, AZ
2009	Member, Education Policy Committee, University of Arizona College of Medicine, Tucson and Phoenix, AZ
2009-2012	Chair (2011-2012) and member (2009-2011), Animal Users Advisory Committee

2012	Member, Research Scientist Search Committee, Arizona State University Advanced Computing Center (A2C2)
2012	Advisor, University Technology Office Advisory Panel for the School of Life Sciences faculty, Arizona State University
2013-present	<i>Ex officio</i> member, Committee on Academic Affairs and Grievance, College of Liberal Arts & Sciences, Arizona State University
2013-present	<i>Ex officio</i> member, Curriculum Committee, College of Liberal Arts & Sciences, Arizona State University
2013-present	<i>Member</i> , Graduate Deans Advisory Group, Office of the Provost, Arizona State University
2013-present	<i>Ex officio</i> , Special Graduate Committee, College of Liberal Arts & Sciences, Arizona State University
2013-present	<i>Ex officio</i> , Special Graduate Student Advisory Committee, College of Liberal Arts & Sciences, Arizona State University
2014-2015	<i>Member</i> , School of Life Sciences Director Search Committee, Arizona State University
2016-present	<i>Member</i> , Associate Deans of Research Advisory Group, Office of Knowledge Enterprise & Development, Arizona State University
2016-present	<i>Ex officio</i> , Special Research Committee, College of Liberal Arts & Sciences, Arizona State University
2016-present	<i>Ex officio</i> , Special Research Advancement Team Committee, College of Liberal Arts & Sciences, Arizona State University
2018-present	<i>Mentor</i> , HUES LGBT+ Mentoring Program, Graduate College, Arizona State University
2018-present	<i>Member</i> , Leadership Team, Smithsonian Tropical Research Institute – Arizona State University Collaborative Initiative
2018-present	<i>Member</i> , Biodesign Institute Internal Advisory Board, Arizona State University
2018-present	<i>Faculty Advisor</i> , GRADient Out in Graduate School, Arizona State University

Graduate and Medical Programs

2001-2006	Member, Cell and Molecular Biology Graduate Group, Developmental Biology Section, University of Pennsylvania School of Medicine
2002-2006	Member, Genomics & Computational Biology Graduate Group, University of Pennsylvania School of Medicine
2006-2009	Member, <i>Ad Hoc</i> Curriculum Committee, UA College of Medicine-Phoenix in partnership with ASU
2007-2008	Member, Final Block Review Committee (Medical School Curriculum), UA College of Medicine-Phoenix in partnership with ASU
2007-2008	Interim Co-Chair, Molecular & Cellular Biology Graduate Program Working Committee, Graduate College, Arizona State University
2007-2008	Co-Chair, <i>Ad Hoc</i> Admissions Committee, Molecular & Cellular Biology Graduate Group, School of Life Sciences, Arizona State University
2008-2012	Graduate Program Director; Member, Admissions Committee; Molecular & Cellular Biology Interdisciplinary Graduate Program, Graduate College, Arizona State University
2008-2009	Scholarly Projects Advisor (8 students/year), UA College of Medicine- Phoenix in partnership with ASU

Departmental

2006-present	Member, Personnel Committee, Genomics, Evolutionary Biology, and Bioinformatics Faculty Group, School of Life Sciences, Arizona State University
2006-2008	Member, Faculty Search Committee, Department of Basic Medical Sciences, UA College of Medicine-Phoenix in partnership with ASU
2009-2012	Genomics, Evolutionary Biology, and Bioinformatics Faculty Group Representative, School of Life Sciences Graduate Committee, Arizona State University
2010-2013	Member, Promotions & Tenure Committee, Dept. of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, AZ
2010-2012	Member, Genomics Faculty Search Committee, School of Life Sciences, Arizona State University
2012-2013	Chair, Developmental Neuroscience Faculty Search Committee, School of Life Sciences, Arizona State University
2013-2014	Chair, Comparative Genomics Faculty Search Committee, School of Life Sciences, Arizona State University
2016-2017	Chair, Stem Cell/Regenerative Biology Faculty Search Committee, School of Life Sciences, Arizona State University

SERVICE: Community

1987-1988	Treasurer, Harvard Gay & Lesbian Students Association, Harvard University, Cambridge, MA
2008-present	Judge, Annual DNA Day Essay Contest, American Society for Human Genetics
2011-2012	OUT and UP Scholarship Committee (for Gay, Lesbian, Bisexual, and Transgender students), Maricopa Community Colleges Foundation
2014, 2016	2014/2015 Academic Year Out to Innovate Scholarships for LGBT STEM Students funded by the Motorola Solutions Foundation, Member of the Selection Committee, National Organization of Gay & Lesbian Scientists & Technical Professionals (NOGLSTP)
2016-present	Founding Member, Lesbian, Gay, Bisexual, Transgender, Queer and Community (LGBTQ*) Faculty & Staff Association, Arizona State University

MENTORSHIP AND SUPERVISORY ROLES.

§ Indicates under-represented student in biology (ethnicity, first generation, tribal affiliation, veteran status, sexual minority)

MARC Indicates student in the Minority Access to Research Careers, funded by NIH

¶ Indicates student awarded funding through the School of Life Sciences Undergraduate Research Programs at ASU

Mentor and Co-Mentor of Postdoctoral (PhD and MD) Fellows

2001-2002	1. <u>Bülent Erol, MD</u> , Medical Fellow, Children’s Hospital of Philadelphia, Co-Mentored with John Dormans, MD. <u>Current Position</u> : Professor, Dept. of Orthopaedics & Traumatology, School of Medicine, Univ. of Marmara, Istanbul, Turkey
2002-2004	2. <u>Ji-Soo Han, MD, PhD</u> , Postdoctoral Fellow, Children’s Hospital of Philadelphia, <u>Current Position</u> : Physician, RWJ Barnabas Health, Edison NJ.

Kenro Kusumi

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| 2003-2004 | 3. <u>Alyssa Schaffer, MD</u> , Medical Fellow, Children’s Hospital of Philadelphia, Co-Mentored with John Dormans, MD. <u>Current Position</u> : Orthopaedic Surgeon, Wilcox Memorial Hospital, Lihue HI. |
| 2005-2006 | 4. <u>Jeremy Traas, PhD</u> , Postdoctoral Fellow, Children’s Hospital of Philadelphia, <u>Current Position</u> : Adjunct Instructor of Chemistry, Rockhurst University, Kansas City, MO |
| 2007-2009 | 5. <u>William Sewell, PhD</u> , Postdoctoral Fellow, ASU School of Life Sciences, <u>Current Position</u> : Instructor of Biology, Ozarks Technical Community College, Springfield, MO. |
| 2013-2015 | 6. <u>Marc Tollis, PhD</u> , Postdoctoral Fellow, ASU School of Life Sciences. <u>Current Position</u> : Assistant Professor, School of Informatics, Computing, and Cyber Systems, Northern Arizona University |
| 2014-2017 | 7. <u>Mariana Bortoletto Grizante, PhD</u> , Exchange Postdoctoral Scholar of the Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), ASU School of Life Sciences. <u>Current Position</u> : Postdoctoral Fellow, Brazilian Biosciences National Laboratory, Campinas, Brazil. |
| 2016-present | 8. <u>Greer Dolby, PhD</u> , Postdoctoral Fellow, ASU School of Life Sciences. <u>Current Position</u> : in lab |

Chair of Graduate Student Dissertation (PhD)

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| 2007-2012 | 1. <u>Walter Eckalbar</u> , ASU, Molecular & Cellular Biology Interdisciplinary Graduate Program. “Advancing the lizard, <i>Anolis carolinensis</i> , as a model system for genomic studies of evolution, development and regeneration.” <u>Current Position</u> : Assistant Professor, Dept. of Medicine, University of California, San Francisco. Years to degree = 5.5. |
| 2010-2015 | 2. <u>Elizabeth Hutchins</u> , ASU, Molecular & Cellular Biology Interdisciplinary Graduate Program. “Insights Towards Developing Regenerative Therapies: The Lizard, <i>Anolis carolinensis</i> , as a Genetic Model for Regeneration in Amniotes.” <u>Current Position</u> : Bioinformatician, Translational Genomics Research Institute, Phoenix, AZ. Years to degree = 5.0. |
| 2015-present | 3. <u>Cindy Xu</u> , ASU, Molecular & Cellular Biology Interdisciplinary Graduate Program. Masters in Passing 2017. Co-advised with Jason Newbern. |
| 2018-present | 4. <u>Joey Orton</u> , ASU, Evolutionary Biology Graduate Program. |

Chair of Master’s Student Thesis or Applied Project

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| 2012-2013 | 1. <u>Catherine May</u> , ASU, Biology Graduate Program, “Genomic Diversity and Abundance of LINE Retrotransposons in 4 Anole Lizards.” Graduated Dec. 2013. <u>Current Position</u> : Ph.D. student, Boston College. |
| 2012-2015 | 3. <u>John Cornelius</u> , ASU, Molecular & Cellular Biology Interdisciplinary Graduate Program. Masters in Passing 2015. Co-advised with Jeanne Wilson-Rawls. <u>Current Position</u> : Bioinformatician, Institute for Systems Biology, Seattle WA. |

Mentorship of Other Graduate and Medical Students

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| 2002 spring | 1. <u>Kelly Covello</u> , PhD, Univ. of Pennsylvania, graduate rotation. <u>Current Position</u> : Director, Nivolumab GU Malignancies (US Medical Affairs) at Bristol-Myers Squibb. |
| 2002-2003 | 2. <u>Michael Tracy</u> , MD, MS, Univ. of Pennsylvania, medical student research rotation. <u>Current Position</u> : Surgeon, Scranton Orthopedic Specialists |

2005-2006	3. <u>Geetu Tuteja</u> , PhD, Univ. of Pennsylvania, graduate student rotation. <u>Current Position</u> : Assistant Professor, Dept. of Bioinformatics and Computational Biology, Iowa State University, Ames, IA.
2005-2006	4. <u>Dilusha William</u> , MD, Univ. of Pennsylvania, graduate research. <u>Current Position</u> : Medical Fellow, Cleveland Clinic, OH.
2007-2008	5. <u>Erica Tassone</u> , PhD, ASU, graduate student rotation. <u>Current Position</u> : Staff Scientist, Translational Genomics Research Institute, Phoenix AZ.
2010-2011	6. <u>Laura Stroik</u> , PhD in Anthropology, ASU, graduate research associate. <u>Current Position</u> : Assistant Professor, Dept. of Anatomy, Grand Valley State University, Allendale, MI.
2010-2012	7. <u>Terry Ritzman</u> , PhD in Anthropology, ASU, graduate research assistant. <u>Current Position</u> : Post-Doctoral Research Associate, Department of Neuroscience, Washington University, St. Louis MO.
2011 fall	8. <u>Ashutosh Singraur</u> , MS, ASU, graduate research project. <u>Current Position</u> : Research Assistant, Arizona State University.
2014-2015	9. <u>Joel Robertson</u> , ASU, Biology Graduate Program. Withdrew from program. Co-advised with Rebecca Fisher. <u>Current Position</u> : Validation Engineer, Savis Inc.
2016-2017	2. <u>Alexander Gleason</u> , ASU, Biomedical Diagnostics (MS) Program, College of Health Solutions. Laboratory experience. <u>Current Position</u> : University of Arizona College of Medicine-Phoenix.

Mentor of Non-Degree BS Graduates (Post-Bac Experience and Research Technician)

1994-1997	1. Eileen Sun	MIT, Current Position: Biotech Patent Associate at Sec IP Law Group
2001-2003	2. Mizuho Mimoto	Univ. of Pennsylvania, MD-PhD (Oregon Health Sci. Univ.), Current Position: Fellow, Dept. of Endocrinology Diabetes, and Metabolism, Univ. of Chicago
2001-2004	3. Stacey Stevens	Univ. of Pennsylvania, Current Position: Regional Sales Manager, Thermo-Fisher Scientific
2002-2005	4. Dorian Gonzalez §	Univ. of Pennsylvania, MS graduate, Thomas Jefferson University, Current Position: Pharmaceuticals Professional Charles River Laboratories, Thomas Jefferson Univ.
2004-2007	5. Joshua Gibson	Univ. of Pennsylvania & ASU, PhD (ASU, Biology). Current Position: Assistant Professor, Georgia Southern University.
2008-2009	6. Allanceson Smith §	ASU, MD (Univ. of New Mexico), Current Position: Clinical Psychiatry Fellow, University of California San Francisco
2009-2010	7. Nataliya Emmert	ASU
2012-2013	8. Michael Crusoe §	ASU, Current Position: Co-founder and Community Engineer at the Common Workflow Language project
2014	9. Benjamin Garns	ASU
2014-2016	10. Minami Tokuyama	ASU, Current Position: Medical Student, Mt. Sinai Medical School
2015	12. Justin Griffin §	ASU, Current Position: Research Technician, Midwestern University
2016	13. Juan Rodriguez §	ASU, Current Position: Honeywell, Inc.

Mentor & Chair of Undergraduate Honor’s Thesis

2006-2008	1. <u>Stephanie Goettl</u> <i>¶</i> , ASU, Molecular Biosciences and Biotechnology. Barrett Honors Thesis, “Understanding Congenital and Idiopathic Scoliosis: Genetic Studies of Complex Disease and Current Approaches.” <u>Current Position</u> : Genetic Counselor, Honor Health.
2007-2009	2. <u>Eric Huyhn</u> <i>¶</i> , ASU, Biomedical Engineering, Barrett Honors Thesis, “Bioinformatics: Database Design and Yeast Genetic Analysis.” <u>Current Position</u> : Family medicine physician, Kingman, AZ
2008-2011	3. <u>Glenn J. Markov</u> <i>¶</i> , ASU, Biological Sciences (Genomics & Bioinformatics), Barrett Honors Thesis, “Investigating Molecular Inducers of Tail Regeneration in the Lizard <i>Anolis carolinensis</i> .” <u>Current Position</u> : Co-founder of Rejuvenation Technologies and Postdoctoral Fellow, Stanford University
2009-2011	4. <u>Michael Ammar</u> <i>¶</i> , ASU, Biological Sciences (Genomics & Bioinformatics), “Functional Genomic Analysis of Myogenesis During Tail Regeneration in the Lizard, <i>Anolis carolinensis</i> .” <u>Current Position</u> : Resident, Dept. of Ophthalmology, University of Pennsylvania
2010-2013	5. <u>Inbar Maayan</u> <i>¶</i> , ASU, Biology & Society, Barrett Honors Thesis, “Comparative appendicular osteology and evolutionary genetics of Panamanian anoles with divergent locomotor strategies.” <u>Current Position</u> : PhD Student, Dept. of Organismic and Evolutionary Biology, Harvard University
2010-2013	6. <u>Eris Lasku</u> <i>¶</i> , ASU, Molecular Biosciences and Biotechnology, Barrett Honors Thesis, “Comparative osteology of the anole lizard tail.” <u>Current Position</u> : Dentist, Rodeo Dental, McAllen, TX.
2011-2014	7. <u>Minami Tokuyama</u> <i>¶</i> , ASU, Biochemistry, Barrett Honors Thesis, “A Histological Analysis of Cell Proliferation Patterns in the Regenerating Tail of the Lizard, <i>Anolis carolinensis</i> .” <u>Current Position</u> : Medical Student, Mount Sinai Medical School, NY, NY
2012-2015	8. <u>Elise Kulik</u> <i>¶</i> , ASU, Biological Sciences. Barrett Honors Thesis, “The Sonoran Desert Tortoise (<i>Gopherus morafkai</i>) and Insights into Conservation Biology and Policy from the Mohave Desert Tortoise (<i>Gopherus agassizii</i>).” <u>Current Position</u> : Budget Analyst, Arizona Governor’s Office
2016-present	9. <u>Matheo Morales</u> , ASU, Biological Sciences. Barrett Honors Thesis in development.

Mentor of Undergraduate Researchers

2001-2002	1. Akshay Mehta	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2001	2. Yana Tsygansky	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2002 summer	3. Megan O’Brien	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2002 summer	4. Amy Visser (§, MARC)	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2002-2004	5. Vanessa Garcia §	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2003-2005	6. Dilusha William	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2004-2006	7. Neha Sahni	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2004-2005	8. Huan Wang	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2004 summer	9. Nicholas Dormans	Univ. of Pennsylvania/Children’s Hosp. of Philadelphia
2006-2008	10. Stephanie Goettl <i>¶</i>	Arizona State University, School of Life Sciences
2006-2007	11. Rebecca Bramble	Arizona State University, School of Life Sciences

Kenro Kusumi

2006-2009	12. Michael Chacon §	Arizona State University, School of Life Sciences
2006-2007	13. Michael Barton	Arizona State University, School of Life Sciences
2006-2008	14. Allanceson Smith (§, MARC)	Arizona State University, School of Life Sciences
2007-2009	15. Eric Huyhn ¶	Arizona State University, School of Life Sciences
2008-2011	16. Glenn Markov ¶	Arizona State University, School of Life Sciences
2008-2010	17. Kristen Landry ¶	Arizona State University, School of Life Sciences
2008	18. Katherine Noonan ¶	Arizona State University, School of Life Sciences
2009-2010	19. Jaken Shirley §	Arizona State University, School of Life Sciences
2009-2011	20. Michael Ammar ¶	Arizona State University, School of Life Sciences
2010-2013	21. Inbar Maayan ¶	Arizona State University, School of Life Sciences
2010-2013	22. Eris Lasku ¶	Arizona State University, School of Life Sciences
2010-2011	23. Jonathan Sankman ¶	Arizona State University, School of Life Sciences
2010-2011	24. Allison Wooten	Arizona State University, School of Life Sciences
2011-2013	25. Haroon Kisana ¶	Arizona State University, School of Life Sciences
2011-2014	26. Minami Tokuyama ¶	Arizona State University, School of Life Sciences
2011-2012	27. Jesse King (veteran) §	Arizona State University, School of Life Sciences, current position University of Connecticut Law School student
2011-2012	28. Bianca Zietal	Arizona State University, School of Life Sciences
2011-2012	29. Meghana Yamanandra ¶	Arizona State University, School of Life Sciences
2011	30. Margaret Liu ¶	Arizona State University, School of Life Sciences
2012-2015	31. Elise Kulik ¶	Arizona State University, School of Life Sciences
2013-2014	32. Neal Williams	Arizona State University, School of Mathematics and Statistical Science. Current Position: UI Engineer at Zenefits
2014-2015	33. Justin Griffin §	Arizona State University, School of Life Sciences
2014-2017	34. Pat Pataranutaporn	Arizona State University, School of Life Sciences
2015	35. Juan Rodriguez §	Arizona State University, School of Human Evolution and Social Change
2016	36. Alexander Frese §	Arizona State University, School of Life Sciences
2016	37. Morgan Richman	Williams College
2016-2018	38. Jacob Gaare	Arizona State University, School of Life Sciences
2016-present	39. Matheo Morales §	Arizona State University, School of Life Sciences
2017-2018	40. Sarah Walls	Arizona State University, School of Life Sciences
2018	41. Ray Elementi §	Arizona State University, School of Life Sciences

Member (non-chair) of PhD Graduate Committee

2006-2009	1. Brian Beres	ASU, Biology Graduate Program
2006-2010	2. Katherine Ihle	ASU, Biology Graduate Program
2008-2010	3. Douglas Anderson	ASU, Molecular & Cellular Biology Graduate Program
2008-2012	4. Rajani George	ASU, Molecular & Cellular Biology Graduate Program
2008-2013	5. Megan Rowton	ASU, Molecular & Cellular Biology Graduate Program
2009-2015	6. Joshua Podlevsky	ASU, Molecular & Cellular Biology Graduate Program
2009-2014	7. Pilar Hydar Ramos §	ASU, Molecular & Cellular Biology Graduate Program
2012-2017	8. Mari Turk	ASU, Neuroscience Graduate Program
2012-2015	9. Szabolcs Szelinger	ASU, Molecular & Cellular Biology Graduate Program

Kenro Kusumi

2012-2014	10. Erik Rogers	ASU, Molecular & Cellular Biology Graduate Program
2012-2013	11. Brooke Hjelm	ASU, Molecular & Cellular Biology Graduate Program
2012-2015	12. Julie Getz	ASU, Molecular & Cellular Biology Graduate Program
2013-2016	13. Elizabeth Cash	ASU, Biology Graduate Program
2013-2014	14. Behzad Damadzadeh	ASU, Biomedical Engineering Graduate Program
2013-2017	15. Genevieve Housman	ASU, Anthropology Graduate Program
2016-present	16. Joanna Palade	ASU, Molecular & Cellular Biology Graduate Program
2016-present	17. Alex Andre	ASU, Molecular & Cellular Biology Graduate Program
2017-present	18. Gyan Harwood	ASU, Evolutionary Biology Graduate Program
2016-present	19. Adam Orr	ASU, Molecular & Cellular Biology Graduate Program

Member (non-chair) of MS Graduate Student Committee

2011-2012	1. Corinne DeRuitter	ASU, Biology BS/MS Accelerated Degree Program
2015-2016	2. Shawn Rupp	ASU, Biology MS Degree Program

Member (non-chair) of Graduate Student Comprehensive Committee

2011	1. Nohea Arkus	ASU, Biological Design Program
2012	2. Brianne Petritis	ASU, Biological Design Program
2012	3. Lalitha Venkataraman	ASU, Biological Design Program
2012	4. Amanda Mulia	ASU, Molecular & Cellular Biology Graduate Program

Member (non-chair) of Barrett Honors Student Thesis Committee

2009	1. Eric Lougher	ASU Barrett Honors College (Chair: Jeanne Wilson-Rawls)
2011	2. Emily Julik	ASU Barrett Honors College (Chair: Rebecca Fisher)
2011	3. Cameron Crockett	ASU Barrett Honors College (Chair: Yung Chang)
2013	4. Brian Nadon	ASU Barrett Honors College (Advisor: Michael Gore)
2018	5. Morgan Herrmann	ASU Barrett Honors College (Advisor: Emilia Martins)