KOENRAAD VAN DOORSLAER, PH.D.

Assistant Professor
School of Animal and Comparative Biomedical Sciences
College of Agriculture and Life Sciences
BIO5 Institute
University of Arizona

Research interests: DNA tumor viruses, viral ecology, viral evolution, and viral oncogenesis

CHRONOLOGY of EDUCATION

2005-2010 **Albert Einstein College of Medicine**
Bronx, NY
Ph.D., Biomedical Sciences, January 2011
Dissertation: The evolution of papillomavirus carcinogenicity.
Thesis Advisor: Dr. Robert D. Burk
Major Fields: Virology, Molecular & Cellular Biology, Evolution, Epidemiology

2002-2004 **University of Leuven**
Leuven, Belgium
Dissertation: Genetic characterization of the *Procyon lotor* papillomavirus type 1
Thesis Advisor: Dr. Marc Van Ranst
Graduated Magna cum Laude
M.S., Biomedical sciences, June 2004

2000-2002 **University of Leuven**
Leuven, Belgium
B.S., Biomedical sciences, June 2002

CHRONOLOGY of EMPLOYMENT

2017-present **University of Arizona**
Tucson, Arizona
Member, Arizona Cancer Center
Assistant Professor, Cancer Biology Graduate Interdisciplinary Program
Assistant Professor, Genetics Graduate Interdisciplinary Program
Assistant Professor, Department of Immunobiology

2016-present **University of Arizona**
Tucson, Arizona
Assistant Professor, School of Animal and Comparative Biomedical Sciences
Assistant Professor, BIO5 Institute

2016-2016 **National Institute of Allergy and Infectious diseases**
Bethesda, MD
Research fellow, Lab of Viral diseases
Mentor: Dr. Alison A. McBride

2011-2015 **National Institute of Allergy and Infectious diseases**

Bethesda, MD
Postdoctoral Fellow, Lab of Viral diseases
Mentor: Dr. Alison A. McBride

HONORS and AWARDS

2017	Award for best oral presentation at 2017 DNA tumor virus meeting
2014	ASM Conference on Viral Manipulation of Nuclear Processes Travel Award
2010	Albert Einstein College of Medicine Student Service Award
2009	International Papillomavirus Society Travel Award
2007	International Papillomavirus Society Travel Award
2006	International Papillomavirus Society Travel Award
2005	Fellow of the Belgian American Educational Foundation (BAEF)

PROFESSIONAL SERVICE

International service

2018-present	**Director** animal papillomavirus reference center
2017-present	**Chair** of the International Committee for the Nomenclature of Viruses (ICTV) papillomavirus study group
2017	**Organizing committee**, DNA tumor virus meeting, Birmingham
2017-present	**Review Editor** in Frontiers in Cellular and Infection Microbiology
2016	**Organizer** Second Annual David J. Heslin Symposium
2015	**Organizer** First Annual David J. Heslin Symposium
2011-2017	**Member** of the International Committee for the Nomenclature of Viruses (ICTV) papillomavirus study group

College of Agriculture and Life Sciences Committees

2018-present	ACBS Director Search Committee.

Departmental Committees

2017-present	ACBS Inclusive Excellence Committee
2017-present	ACBS IT Advisory Committee

Other service appointments

1. Faculty Mentor, MARC program (Maximizing Access to Research Careers)
2. Faculty Mentor, KEYS program (Keep Engaging Youth in Science)
3. Science Advisor to JTED Bioscience

PUBLICATIONS and CREATIVE ACTIVITY

Refereed Journal Articles (h-index = 22)

*****Corresponding Author

1. **Diverse papillomaviruses identified in Weddell seals.** Smeele ZE, Burns JM, **Van Doorslaer K**, Fontenele RS, Waits K, Stainton D, Shero MR, Beltran RS, Kirkham AL, Berngartt R, Kraberger S, Varsani A. J Gen Virol. 2018 Feb 22. doi: 10.1099/jgv.0.001028. PMID: 29469687
2. **Roles of APOBEC3A and APOBEC3B in Human Papillomavirus Infection and Disease Progression.** Warren CJ, Westrich JA, **Van Doorslaer K**, Pyeon D. **Viruses.** 2017 Aug 21;9(8). pii: E233. doi: 10.3390/v9080233. PMID 28825669

3. **Persistence of an Oncogenic Papillomavirus Genome Requires cis Elements from the Viral Transcriptional Enhancer. Van Doorslaer K**, Chen D, Chapman S, Khan J, McBride AA. **Mbio.** 2017 Nov 21;8(6). pii: e01758-17. doi: 10.1128/mBio.01758-17 PMID 29162712
4. **Unique genome organization of non-mammalian papillomaviruses provides insights into the evolution of viral early proteins. Van Doorslaer K***, Ruoppolo V, Schmidt A, Lescroël A, Jongsomjit D, Elrod M, Kraberger S, Stainton D, Dugger KM, Ballard G, Ainley DG, Varsani A. **Virus Evol.** 2017 Oct 6;3(2):vex027. doi: 10.1093/ve/vex027. eCollection 2017 Jul. PMID 29026649
5. **The Papillomavirus Episteme: a major update to the papillomavirus sequence database. Van Doorslaer K**, Li Z, Xirasagar S, Maes P, Kaminsky D, Liou D, Sun Q, Kaur R, Huyen Y, McBride AA. **Nucleic Acids Res.** 2017 Jan 4;45(D1):D499-D506. doi: 10.1093/nar/gkw879. Epub 2016 Oct 5. PMID 28053164
6. **Novel recombinant papillomavirus genomes expressing selectable genes**. **Van Doorslaer K**, Porter S, McKinney C, Stepp WH, and McBride AA. **Sci Rep.** 2016 Nov 28;6:37782. doi: 10.1038/srep37782. PMID 27892937
7. **Detection and genotyping of Alpha Human Papillomaviruses from archival formalin fixed tissue samples. Van Doorslaer K,** Chen Z, and McBride AA. **Curr Protoc Microbiol***.* 2016 Nov 18;43:14B.9.1-14B.9.20. doi: 10.1002/cpmc.16. PMID 27858973
8. **The Papillomavirus Episteme: a major update to the papillomavirus sequence database. Van Doorslaer K**, Li Z, Xirasagar S, Maes P, Kaminsky D, Liou D, Sun Q, Kaur R, Huyen Y, McBride AA. **Nucl. Acids Res**. 2016. doi: 10.1093/nar/gkw879.
9. **Molecular archeological evidence in support of the repeated loss of a papillomavirus gene. Van Doorslaer K*** and McBride AA. **Sci Rep.** 2016 Sep 8;6:33028. doi: 10.1038/srep33028. PMID 27604338
10. **The Ancient Evolutionary History of Polyomaviruses.** Buck CB, **Van Doorslaer K**, Peretti A, An P, Katz JP, Pipas JM, McBride AA, Camus A, McDermott A, Delwart E, Ng T, Farkas K, Austin C, Kraberger S, Davison W, Pastrana DV, and Varsani A. **PLoS Pathog**. 2016 Apr 19;12(4):e1005574. doi: 10.1371/journal.ppat.1005574. eCollection 2016 Apr. PMID 27093155
11. **Papillomavirus Evolution Driven by the Host Restriction Factor APOBEC3 and DNA Methylation. Van Doorslaer K**, Warren C, and Pyeon D. **Virus Evol** (2015) 1 (1): vev015
12. UbSRD: The Ubiquitin Structural Relational Database. Harrison JS, Jacobs TM, Houlihan K, **Van Doorslaer K** and Kuhlman B. **J Mol Biol**. 2015 Sep 18. pii: S0022-2836(15)00522-7. doi: 10.1016/j.jmb.2015.09.011. PMID 26392143.
13. **Degradation of Human PDZ-Proteins by Human Alphapapillomaviruses Represents an Evolutionary Adaptation to a Novel Cellular Niche**. **Van Doorslaer K**, DeSalle R, Einstein MH, Burk RD. **PLoS Pathog**. 2015 Jun 18;11(6):e1004980. doi: 10.1371/journal.ppat.1004980. eCollection 2015 Jun. PMID:26086730
14. **A Proteomic approach to discover and compare interacting partners of Papillomavirus E2 proteins from diverse phylogenetic groups.** Jang MK, Anderson DE, **Van Doorslaer K,** McBride AA. **Proteomics**. 2015 Mar 11. doi: 10.1002/pmic.201400613. PMID: 25758368
15. **Evolution of the *Papillomaviridae****. **Van Doorslaer K**. **Virology**. 2013 Oct;445(1-2):11-20. doi: 10.1016/j.virol.2013.05.012. Epub 2013 Jun 14. PMID: 23769415
16. **Condylomatous genital lesions in cynomolgus macaques from Mauritius**. Harari A, Wood CE, **Van Doorslaer K**, Chen Z, Domaingue MC, Elmore D, Koenig P, Wagner JD, Jennings RN, Burk RD. **Toxicol Pathol**. 2013 Aug;41(6):893-901. doi:

10.1177/0192623312467521. Epub 2012 Dec 21. PMID: 23262641

17. **The Papillomavirus Episteme: a central resource for papillomavirus sequence data and analysis**. **Van Doorslaer K**, Tan Q, Xirasagar S, Bandaru S, Gopalan V, Mohamoud Y, Huyen Y, McBride AA. **Nucleic Acids Res**. 2013 Jan;41(Database issue):D571-8. doi: 10.1093/nar/gks984. Epub 2012 Oct 23. PMID: 23093593
18. **Association between hTERT activation by HPV E6 proteins and oncogenic risk**. **Van Doorslaer K**, Burk RD. **Virology**. 2012 Nov 10;433(1):216-9. doi: 10.1016/j.virol.2012.08.006. Epub 2012 Aug 25. PMID: 22925336
19. **Sequence imputation of HPV16 genomes for genetic association studies**. Smith B, Chen Z, Reimers L, **Van Doorslaer K**, Schiffman M, Desalle R, Herrero R, Yu K, Wacholder S, Wang T, Burk RD. **PLoS One**. 2011;6(6):e21375. doi: 10.1371/journal.pone.0021375. Epub 2011 Jun 23. PMID: 21731721
20. **Papillomaviruses: evolution, Linnaean taxonomy and current nomenclature**. **Van Doorslaer K**, Bernard HU, Chen Z, de Villiers EM, zur Hausen H, Burk RD. **Trends Microbiol**. 2011 Feb;19(2):49-50; author reply 50-1. doi: 10.1016/j.tim.2010.11.004. Epub 2010 Dec 7. PMID: 21144754
21. **Evolution of human papillomavirus carcinogenicity.** **Van Doorslaer K**, Burk RD. **Adv Virus Res**. 2010;77:41-62. doi: 10.1016/B978-0-12-385034-8.00002-8. Review. PMID: 20951869
22. **Degradation of p53 by human Alphapapillomavirus E6 proteins shows a stronger correlation with phylogeny than oncogenicity.** Fu L, **Van Doorslaer K**, Chen Z, Ristriani T, Masson M, Travé G, Burk RD. **PLoS One**. 2010 Sep 17;5(9). doi:pii: e12816. 10.1371/journal.pone.0012816. PMID: 20862247
23. **Overexpression of miR-21 promotes an in vitro metastatic phenotype by targeting the tumor suppressor RhoB.** Connolly EC, **Van Doorslaer K**, Rogler LE, Rogler CE. **Mol Cancer Res**. 2010 May;8(5):691-700. doi: 10.1158/1541-7786.MCR-09-0465. Epub 2010 May 11. PMID: 20460403
24. **Classification of papillomaviruses (PVs) based on 189 PV types and proposal of taxonomic amendments**. Bernard HU, Burk RD, Chen Z, **Van Doorslaer K**, zur Hausen H, de Villiers EM. **Virology**. 2010 May 25;401(1):70-9. doi: 10.1016/j.virol.2010.02.002. Epub 2010 Mar 5. PMID: 20206957
25. **Lack of heterogeneity of HPV16 E7 sequence compared with HPV31 and HPV73 may be related to its unique carcinogenic properties**. Safaeian M, **Van Doorslaer K**, Schiffman M, Chen Z, Rodriguez AC, Herrero R, Hildesheim A, Burk RD. **Arch Virol.** 2010 Mar;155(3):367-70. doi: 10.1007/s00705-009-0579-2. Epub 2010 Jan 6. PMID: 20049619
26. **Genomic diversity and interspecies host infection of alpha12 Macaca fascicularis papillomaviruses (MfPVs).** Chen Z, **Van Doorslaer K**, DeSalle R, Wood CE, Kaplan JR, Wagner JD, Burk RD. **Virology**. 2009 Oct 25;393(2):304-10. doi: 10.1016/j.virol.2009.07.012. Epub 2009 Aug 28. PMID: 19716580
27. **Human papillomaviruses: genetic basis of carcinogenicity**. Burk RD, Chen Z, **Van Doorslaer K**. **Public Health Genomics**. 2009;12(5-6):281-90. doi: 10.1159/000214919. Epub 2009 Aug 11. Review. PMID: 19684441
28. **Serological response to an HPV16 E7 based therapeutic vaccine in women with high-grade cervical dysplasia.** **Van Doorslaer K*,** Reimers LL, Studentsov YY, Einstein MH, Burk RD. **Gynecol Oncol**. 2010 Feb;116(2):208-12. doi: 10.1016/j.ygyno.2009.05.044. Epub 2009 Jun 24. PMID: 19555999
29. **Identification of unusual E6 and E7 proteins within avian papillomaviruses: cellular**

localization, biophysical characterization, and phylogenetic analysis. **Van Doorslaer K**, Sidi AO, Zanier K, Rybin V, Deryckère F, Rector A, Burk RD, Lienau EK, van Ranst M, Travé G. **J Virol**. 2009 Sep;83(17):8759-70. doi: 10.1128/JVI.01777-08. Epub 2009 Jun 24. PMID: 19553340

30. **Macaca fascicularis papillomavirus type 1: a non-human primate betapapillomavirus causing rapidly progressive hand and foot papillomatosis**. Joh J, Hopper K, **Van Doorslaer K**, Sundberg JP, Jenson AB, Ghim SJ. **J Gen Virol**. 2009 Apr;90(Pt 4):987-94. doi: 10.1099/vir.0.006544-0. Epub 2009 Mar 4. PMID: 19264664
31. **A single amino acid substitution in a segment of the CA protein within Gag that has similarity to human immunodeficiency virus type 1 blocks infectivity of a human endogenous retrovirus K provirus in the human genome**. Heslin DJ, Murcia P, Arnaud F, **Van Doorslaer K**, Palmarini M, Lenz J. **J Virol**. 2009 Jan;83(2):1105-14. doi: 10.1128/JVI.01439-08. Epub 2008 Nov 12. PMID: 19004950
32. **Genomic characterization of two novel reptilian papillomaviruses, Chelonia mydas papillomavirus 1 and Caretta caretta papillomavirus 1.** Herbst LH, Lenz J, **Van Doorslaer K**, Chen Z, Stacy BA, Wellehan JF Jr, Manire CA, Burk RD. **Virology**. 2009 Jan 5;383(1):131-5. doi: 10.1016/j.virol.2008.09.022. Epub 2008 Oct 29.PMID: 18973915
33. **Genomic characterization of novel dolphin papillomaviruses provides indications for recombination within the Papillomaviridae.** Rector A, Stevens H, Lacave G, Lemey P, Mostmans S, Salbany A, Vos M, **Van Doorslaer K**, Ghim SJ, Rehtanz M, Bossart GD, Jenson AB, Van Ranst M. **Virology**. 2008 Aug 15;378(1):151-61. doi: 10.1016/j.virol.2008.05.020. Epub 2008 Jun 24. PMID: 18579177
34. **Ancient papillomavirus-host co-speciation in Felidae**. Rector A, Lemey P, Tachezy R, Mostmans S, Ghim SJ, **Van Doorslaer K**, Roelke M, Bush M, Montali RJ, Joslin J, Burk RD, Jenson AB, Sundberg JP, Shapiro B, Van Ranst M. **Genome Biol**. 2007;8(4):R57. PMID: 17430578
35. **Complete genomic characterization of a murine papillomavirus isolated from papillomatous lesions of a European harvest mouse (Micromys minutus). Van Doorslaer K**, Rector A, Jenson AB, Sundberg JP, Van Ranst M, Ghim SJ. **J Gen Virol**. 2007 May;88(Pt 5):1484-8. PMID: 17412977
36. **Genetic characterization of the first chiropteran papillomavirus, isolated from a basosquamous carcinoma in an Egyptian fruit bat: the Rousettus aegyptiacus papillomavirus type 1.** Rector A, Mostmans S, **Van Doorslaer K**, McKnight CA, Maes RK, Wise AG, Kiupel M, Van Ranst M. **Vet Microbiol**. 2006 Oct 31;117(2-4):267-75. Epub 2006 Jul 18. PMID: 16854536
37. **Genetic characterization of the Capra hircus papillomavirus: a novel close-to-root artiodactyl papillomavirus. Van Doorslaer K**, Rector A, Vos P, Van Ranst M. **Virus Res**. 2006 Jun;118(1-2):164-9. Epub 2006 Jan 23. PMID: 16430985
38. **Isolation and cloning of the raccoon (Procyon lotor) papillomavirus type 1 by using degenerate papillomavirus-specific primers.** Rector A, **Van Doorslaer K**, Bertelsen M, Barker IK, Olberg RA, Lemey P, Sundberg JP, Van Ranst M. **J Gen Virol.** 2005 Jul;86(Pt 7):2029-33. PMID: 15958682
39. **Isolation and cloning of a papillomavirus from a North American porcupine by using multiply primed rolling-circle amplification: the Erethizon dorsatum papillomavirus type 1.** Rector A, Tachezy R, **Van Doorslaer K**, MacNamara T, Burk RD, Sundberg JP, Van Ranst M. **Virology**. 2005 Jan 20;331(2):449-56. PMID: 15629787

Scholarly Book Chapters

1. **Recent developments in the interactions between caveolin and pathogens.** Machado FS, Rodriquez NE, Adesse D, Garzoni LR, Esper L, Lisanti MP, Burk RD, Albanese C, **Van Doorslaer K**, Weiss LM, Nagajyothi F, Nosanchuk JD, Wilson ME, Tanowitz HB., 2010. *In* **Caveolins and caveolae: Role in signaling and Disease mechanisms** . Edited by Jasmin JF, Frank PG and Lisanti MP. Landes Bioscience. Pubmed PMID: 22411314
2. **Replication and Maintenance of Viral Genomes by Association with Host Chromatin . Van Doorslaer K**, Sekhar V, Khan J, McBride AA., 2012. *In* Small DNA Viruses. Edited by Kevin L. Gaston. Horizon Press

General public publications

1. **PaVE: The Papillomavirus Episteme**. McBride AA and **Van Doorslaer, K.** HPV today (number 26)

Electronic Publications

Websites

1. **The Papillomavirus Episteme (PaVE)**
   https://pave.niaid.nih.gov/

Computer Code/scripts

1. GitHub Repository
   https://github.com/Van-Doorslaer

SCHOLARLY PRESENTATIONS

Selected Talks at International/National Conferences

Jul 2017	DNA tumor virus meeting Birmingham, UK Genomic plasticity near the root of the papillomavirus evolutionary tree
Jul 2016	DNA tumor virus meeting Montreal, Canada Molecular archeological evidence in support of the repeated loss of a papillomavirus gene
Jul 2016	DNA tumor virus meeting Montreal, Canada Viral transcriptional enhancer is required for optimal persistence of an oncogenic papillomavirus genome
Jul 2015	DNA tumor virus meeting Trieste, Italy Fish papillomaviruses!
Jul 2015	DNA tumor virus meeting Trieste, Italy Viral transcriptional enhancer is required for optimal persistence of an oncogenic papillomavirus genome
Sep 2015	30th International Papillomavirus conference (invited plenary seminar) Lisbon, Portugal PaVE: The Papillomavirus Episteme

Aug 2014	29th International Papillomavirus conference Seattle, WA, USA Degradation of Human PDZ-Proteins by Human Alphapapillomaviruses Represents an Evolutionary Adaptation to a Novel Cellular Niche.
Jul 2014	DNA tumor virus meeting Madison, USA Viral transcriptional enhancer is required for optimal persistence of an oncogenic papillomavirus genome
Aug 2013	Octet User Meeting Bethesda, MD, USA The Papillomavirus E2 protein; Evolutionary analysis of DNA binding functions
Jul 2013	DNA tumor virus meeting Birmingham, UK Viral transcriptional enhancer is required for optimal persistence of an oncogenic papillomavirus genome
Jul 2012	DNA tumor virus meeting Montreal, Canada Viral transcriptional enhancer is required for optimal persistence of an oncogenic papillomavirus genome
Nov 2012	28th International Papillomavirus conference (invited plenary seminar) San Juan, Puerto Rico PaVE: The Papillomavirus Episteme
Jul 2011	DNA tumor virus meeting Trieste, Italy Conservation of a tri-peptide implicated in tethering of viral genomes to host chromosomes
Jul 2010	26th International Papillomavirus conference Montreal, Canada Association between hTERT activation by E6 proteins and oncogenic risk
May 2009	25th International Papillomavirus Conference Malmo, Sweden Macaca fascicularis papillomaviruses (MfPVs).
Nov 2007	24th International Papillomavirus Conference Beijing, China Identification of unusual E6 and E7 proteins within avian papillomaviruses: cellular localization, biophysical characterization, and phylogenetic analysis.
Sep 2006	23rd International Papillomavirus Conference Prague, Czech Republic Genetic characterization of the Capra hircus papillomavirus: a novel close-to-root artiodactyl papillomavirus.
Apr 2005	22nd International Papillomavirus Conference Vancouver, Canada Isolation and cloning of the raccoon papillomavirus type 1 by using degenerate papillomavirus-specific primers.

Invited Seminars from Outside Institutions

Apr 2017	*Anchor Talk* at 56th Annual meeting of the Arizona/Southern Nevada ASM Branch Tucson, AZ *Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease*
Mar 2017	CIDD seminar Penn State University Hershey, PA, USA *Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease*
Mar 2017	Frontiers in Immunobiology & Immunopathogenesis Symposium 2017 Dept. of Immunobiology, University of Arizona *Use of comparative virology to understand papillomavirus oncogenicity*
Oct 2016	Inaugural CME collaborative seminar Arizona State University, Phoenix, AZ, USA Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease
Mar 2016	University of Arizona, Tucson, AZ, USA *Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease*
Sep 2015	University of Western Ontario London, Ontario, Canada *Viral Transcriptional Enhancer is Required for the Optimal Persistence of a Papillomavirus genome*
Jul 2014	National Institutes of Health Comparative Biomedical Science Day symposium *Papillomavirus diversity and evolutionary history* Bethesda, MD, USA
Jan 2009	Ecole Supérieure de Biotechnologies de Strasbourg Strasbourg, France *Evolution of the Papillomavirus E6 oncoprotein*

Invited Seminars at the University of Arizona

Apr 2017	MicroLunch, Cross Campus Microbiology Focus Group, UA *Papillomaviruses as tools to study evolution*
Mar 2017	UA Microbiolgy Club meeting *Papillomaviruses; replication and cancer*
Nov 2016	Head and Neck Cancer collaborative seminar University of Arizona Cancer Center *In vitro* tools to study the papillomavirus lifecycle
Nov 2016	AZCC, Cancer Biology Program Seminar Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease
Oct 2016	MicroLunch, Cross Campus Microbiology Focus Group, UA *Comparative Genomics as a Tool to Understand Papillomavirus Evolution and Disease*

Symposia and Colloquia

Mar 2017	MARC Biomedical Research Colloquium Tucson, AZ, USA *Papillomaviruses, replication and cancer*
Aug 2008	Microbial Evolution & Genomics NYC Area Symposium New York, NY, USA *Unusual features of the avian papillomavirus early proteins*

FUNDING

1. American Cancer Society (ACS IRG award) **2018-present**
   Principal Investigator
   "Dissecting the role of anatomical tissue origin on HPV induced cancer"
2. CALS early career Seed Grant **2017-2018**
   Principal Investigator
   "Optimizing in vitro papillomavirus infection for molecular studies"
3. UA Research, Discovery & Innovation (RDI) Faculty Seed Grant **2017-2018**
   Principal Investigator
   "Determine the role of recombination in Papillomavirus evolution"

EVALUATION of TEACHING and ADVISING

Extent of Teaching

Courses

Spring 2017	MIC433/MIC533 Medical and Molecular Virology *Primary Instructor*
Spring 2017	MCB565 Principles and Molecular Mechanisms of Microbe-Host Interactions *Guest Lecturer*

Individual Student Contact/Mentoring

Advisor, Undergraduate First year Honors project

2017 Kayleigh Berthiaume
Thesis Title: *Analysis of host-parasite coevolution*

Advisor, Minority access to research (MARC) fellow

2017- Jayme Jackson

Undergraduate individual research Advisor

2017 Melissa H. Ayres
2017 Josh Pace
2017 Emma Paunil
Recipient of a Spirit of Inquiry research Grant

Advisor, Keep Engaging Youth in Science (KEYS) fellow

2017 Gabrielle Russell (Vail High School)

Thesis Committee

Comprehensive examination

2017 Aaron P. Roznowski (Genetics GIDP)

LIST of COLLABORATORS

Samuel K. Campos, PhD, University of Arizona, Department of Medicine, Tucson, AZ, USA
Steven J. Wang, MD, **FACS**, University of Arizona, Department of Medicine, Tucson, AZ, USA
Arvind Varsani, PhD, Arizona State University, The Biodesign Institute and School of Life Sciences, Tempe, AZ, USA
Joseph S. Harison, PhD, Lineberger Comprehensive Cancer Center, University of North Carolina Medical School, Chapel Hill, NC, USA
Piet Maes, PhD, Rega Institute, University of Leuven, Leuven, Belgium