

# CURRICULUM VITAE

## ROBERT B. ABRAMOVITCH

### Assistant Professor

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### Education

Cornell University	Ph.D.	2006	Plant Pathology
University of British Columbia	B.Sc. (Honors)	2000	Microbiology

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### Positions

2012- Assistant Professor, Michigan State University  
2006-11 Postdoctoral Fellow, Cornell University  
2000-06 Graduate Fellow, Cornell University

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### Fellowships and Awards

2015 Zoetis Award for Research Excellence, MSU College of Veterinary Medicine.  
2014 Jean P. Schultz Biomedical Research Award, MSU College of Human Medicine.  
2014 Innovation of the Year Award, Michigan State University.  
2012,14 Grand Challenges Explorations Awards, Bill & Melinda Gates Foundation.  
2009-11 Postdoctoral Fellow, Ruth L. Kirschstein National Research Service Award, NIAID.  
2008-09 Postdoctoral Fellow, Heiser Program for Research in Leprosy and Tuberculosis.  
2005 Postgraduate Fellow, Cornell University.  
2005 Barbara McClintock Graduate Student Award, Cornell University.  
2005 1<sup>st</sup> place, Best Poster, XII Molecular Plant-Microbe Interactions conference.  
2001-04 Postgraduate Fellow, National Sciences and Engineering Research Council.  
2000 Dolman Prize, Top graduate of UBC Department of Microbiology and Immunology.  
1999 Guy Chance Award, UBC Department of Microbiology and Immunology.  
1999 Science Scholar, Top 2% of UBC Faculty of Science students.  
1995-00 Outstanding Student Initiative entrance scholarship, University of British Columbia.

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**Journal Publications (total 24, h-index = 17, 2666 citations, Google Scholar Database)**

1. Zheng H, Colvin CJ, Johnson BK, Kirchhoff PD, Wilson M, Jorgensen-Muga K, Larsen SD, Abramovitch RB (2017). Inhibitors of *Mycobacterium tuberculosis* DosRST signaling and persistence. **Nature Chemical Biology**, *in press*.
2. Johnson BK, Abramovitch RB. Small molecules that sabotage bacterial virulence (2017). **Trends in Pharmacological Sciences**, *in press*.
3. Williams EA, Mba Medie, F, Bosserman RE, Johnson BK, Reyna C, Ferrell MJ, Champion MM, Abramovitch RB, Champion PA (2017). A nonsense mutation in *Mycobacterium marinum* that is suppressible by a novel mechanism. **Infection and Immunity**, *in press*.
4. Johnson BK, Scholtz, MB, Teal TK, Abramovitch RB (2016). SPARTA: Simple Program for Automated reference-based bacterial RNA-seq Transcriptome Analysis. **BMC Bioinformatics**, 17:66. Times cited: 2
5. Liu, Y, Tan S, Huang L, Abramovitch, RB, Rohde, KH, VanderVen BC, Zimmerman MD, Chen C, Dartois V, Russell DG (2016). Immune activation of the host cell induces drug tolerance to *Mycobacterium tuberculosis* both *in vitro* and *in vivo*. **Journal of Experimental Medicine**, 213 (5): 809-825. Times cited: 5
6. Sloup RE, Cieza RJ, Needle DB, Abramovitch RB, Torres AG, Waters CM (2016) Polysorbates prevent biofilm formation and pathogenesis of *Escherichia coli* O104:H4. **Biofouling**, 32 (9):1131-1140. Times cited: 1
7. Johnson BK, Colvin CJ, Needle DB, Mba Medie F, Champion PA, Abramovitch RB (2015). The carbonic anhydrase inhibitor ethoxzolamide inhibits the *Mycobacterium tuberculosis* PhoPR regulon and Esx-1 secretion and attenuates virulence. **Antimicrobial Agents and Chemotherapy**, 59(8):4436-45. Times cited: 6  
-- Highlighted in **The Pharmaceutical Journal** (August, 2015)
8. VanderVen BC, Fahey RJ, Lee W, Lui Y, Abramovitch RB, Memmott C, Crowe AM, Eltis LD, Perola E, Deiningger DD, Wang T, Locher CP, Russell DG (2015). Novel inhibitors of cholesterol degradation in *Mycobacterium tuberculosis* reveal how the bacterium's metabolism is constrained by the intracellular environment. **PLOS Pathogens**, 11(2): e1004679. Times cited: 31
9. Baker JJ, Johnson BK, Abramovitch RB (2014) Slow growth of *Mycobacterium tuberculosis* at acidic pH is regulated by *phoPR* and host-associated carbon sources. **Molecular Microbiology**, 94 (1): 56-69. Times cited: 20  
-- Highlighted as an Editor's Choice in **Science Translational Medicine** (July 9, 2014)
10. Tan S, Sukumar N, Abramovitch RB, Parish T, Russell DG (2013) *Mycobacterium tuberculosis* responds to chloride and pH as synergistic cues to the immune status of its host cell. **PLOS Pathogens**, 9 (4): e1003282. Times cited: 39

11. Abramovitch RB, Rohde KH, Hsu FF, Russell DG (2011) *aprABC*: A *Mycobacterium tuberculosis* complex-specific locus that modulates pH-driven adaptation to the macrophage phagosome. ***Molecular Microbiology***, 80 (3): 678-694. Times cited: 76
12. Russell DG, VanderVen BC, Lee W, Abramovitch RB, Kim MJ, Homolka S, Niemann S, Rohde KH (2010) *Mycobacterium tuberculosis* wears what it eats. ***Cell: Host and Microbe***. 8(1): 68-76. Times cited: 100
13. Rohde KH, Abramovitch RB, Russell DG (2007) *Mycobacterium tuberculosis* invasion of macrophages: Linking bacterial gene expression to environmental cues. ***Cell: Host and Microbe***. 2 (5): 352-64. Times cited: 196
14. Rosebrock TR, Zeng L, Brady JJ, Abramovitch RB, Xiao F, Martin GB (2007) A bacterial E3 ubiquitin ligase mediates degradation of an immunity-associated host protein kinase. ***Nature***. 448 (7151): 370-374. Times cited: 242
15. Xiao F, He P, Abramovitch RB, Dawson JE, Nicholson LK, Sheen J, Martin GB (2007) The N-terminal region of *Pseudomonas* type III effector AvrPtoB elicits Pto-dependent immunity and has two distinct virulence determinants. ***Plant Journal***. 52 (4):595-614. Times cited: 63
16. Abramovitch RB, Anderson JC, Martin GB (2006) Bacterial elicitation and evasion of plant innate immunity. ***Nature Reviews Molecular Cell Biology***. 7 (8): 601-611. Times cited: 345
17. Abramovitch RB, Janjusevic R, Stebbins CE, Martin GB (2006) Type III effector AvrPtoB requires intrinsic E3 ubiquitin ligase activity to suppress plant cell death and immunity. ***Proc. Natl. Acad. Sci. USA***. 103 (8): 2851-2856. Times cited: 206
18. Janjusevic R\*, Abramovitch RB\*, Martin GB, Stebbins CE (2006) A bacterial inhibitor of host programmed cell death defenses is an E3 ubiquitin ligase. ***Science***, 311 (5758): 222-226. Times cited: 284  
\*Co-first authors, contributed equally to this paper.
19. Lin NC, Abramovitch RB, Kim YJ, Martin GB (2006) Diverse AvrPtoB homologs from several *Pseudomonas syringae* pathovars elicit Pto-dependent resistance and have similar virulence activities. ***Applied and Environmental Micro***. 72 (1): 702-712. Times cited: 53
20. Abramovitch RB, Martin GB (2005) AvrPtoB: A bacterial type III effector that both elicits and suppresses programmed cell death associated with plant immunity. ***FEMS Microbiology Letters***, 245: 1-8. Times cited: 65
21. Abramovitch RB, Martin GB (2004) Strategies used by bacterial pathogens to suppress plant defenses. ***Current Opinion in Plant Biology***, 7:356-364. Times cited: 243
22. Abramovitch RB, Kim YJ, Chen S, Dickman MB, Martin GB (2003) *Pseudomonas* type III effector AvrPtoB induces plant disease susceptibility by inhibition of host programmed cell death. ***EMBO Journal***. 22(1): 60-69. Times cited: 377
23. Abramovitch RB, Yang G, Kronstad JW (2002) The *ukb1* gene encodes a putative protein kinase required for bud site selection and pathogenicity in the fungal pathogen *Ustilago maydis*. ***Fungal Genetics and Biology***, 37: 98-108. Times cited: 24

24. Fouts, DE, Abramovitch RB, *et al.* (2002) Genomewide identification of *Pseudomonas syringae* pv. *tomato* DC3000 promoters controlled by the HrpL alternative sigma factor. ***Proc. Natl. Acad. Sci. USA.*** 99 (4): 2275-2280. Times cited: 286
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### Publications under review

1. Coulson GB, Johnson BK, Colvin CJ, Fillinger RJ, Zheng H, Haiderer E, Hammer ND, Abramovitch RB. The acidic pH-dependent compound AC2P36 depletes *M. tuberculosis* thiol pools and potentiates bactericidal activity of antibiotics and oxidizing agents. *Under review, preprint at BioRxiv* <https://doi.org/10.1101/095448>
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### Book Chapters

1. Johnson BK and Abramovitch RB (2015). Macrophage Infection Models for *Mycobacterium tuberculosis*. ***Mycobacteria Protocols, Third Edition.*** Edited by Tanya Parish and David Roberts. Springer.
2. Yates RM, Rohde KH, Abramovitch RB, Russell DG (2009) Functional Analysis of the Intraphagosomal Environment of the Macrophage: Fluorogenic Reporters and the Transcriptional Responses of *Salmonella* and *Mycobacterium* spp. ***Phagocyte-Pathogen Interactions.*** Edited by David G. Russell and Simon Gordon, ASM press, Washington, DC.
3. Pascuzzi PE, Abramovitch RB, Anderson JC, Lin NC, Cohn JR, Martin GB (2006) Elucidation of the Virulence Activities of *Pseudomonas* Effector Proteins AvrPto and AvrPtoB. ***Biology of Plant Microbe Interactions, vol. 5.*** Edited by Federico Sanchez, Carmen Quinto, Isabel M. Lopez-Lara, and Otto Geiger. IS-MPMI, St. Paul, Minnesota, USA.
4. Abramovitch RB, Anderson JC, Lin NC, Martin GB (2004) The roles of *Pseudomonas* type III effectors AvrPto and AvrPtoB as modulators of plant disease susceptibility and immunity. ***Biology of Plant-Microbe Interactions, vol. 4.*** Edited by Igor Tikhonovich, Ben Lugtenberg, and Nikolai Provorov. IS-MPMI. St. Paul, Minnesota, USA.
5. Kronstad J, Durrenberger F, Laidlaw D, De Maria A, Moniz de Sa M, Lee N, Kohno Y, Abramovitch, RB. (1999) Morphogenesis, Sporulation and Virulence in *Ustilago maydis* Are Controlled by cAMP signaling. ***Biology of Plant-Microbe Interactions, vol. 2.***
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## Patent and Patent Applications

1. Martin GB, Abramovitch RB, Kim YK, Lin NC. Bacterial effector proteins which inhibit programmed cell death. US Patent 7,888,467.
  2. Abramovitch RB, Johnson BK, and Colvin CJ. Compositions and methods for inhibiting bacterial growth. U.S. Patent Application PCT/US2016/030689, WO2016179231 (Ethoxzolamide)
  3. Abramovitch RB, Zheng H, Johnson BK, Colvin CJ. Compositions and methods for inhibiting bacterial growth. *Provisional patent application submitted.* (DosRST inhibitors)
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## Invited Seminars

- 06/17 “Small molecules that inhibit *Mycobacterium tuberculosis* environmental sensing and virulence” **Gordon Research Conference on Tuberculosis Drug Discovery and Development**, Lucca, Italy. *International Meeting.*
- 04/17 “Inhibitors of *Mycobacterium tuberculosis* DosRST signaling and persistence” **ASM Conference on Tuberculosis: Past, Present, and Future**, New York, NY. *National meeting*
- 12/16 “Inhibitors of *Mycobacterium tuberculosis* persistence and pathogenesis” **Oregon Health Sciences University**, Department of Molecular Microbiology and Immunology. *Departmental Seminar.*
- 11/16 “Inhibitors of *Mycobacterium tuberculosis* persistence and pathogenesis” **Tufts University**, School of Graduate Biomedical Sciences. *Departmental seminar.*
- 10/16 “Inhibitors of *Mycobacterium tuberculosis* persistence and pathogenesis” **Notre Dame University**, Department of Biological Sciences. *Departmental seminar.*
- 06/16 “Small molecules that inhibit *M. tuberculosis* two-component regulatory systems.” **Banff Conference on Infectious Diseases**, Banff, Canada. *International Meeting.*
- 06/16 “Tuberculosis therapeutics that inhibit bacterial sensing and resistance to host immunity.” **TB Summit 2016**, London, UK. *International Meeting.*
- 06/16 “Glow Green! Using fluorescent biosensors to find new treatments for tuberculosis.” **Summer research opportunity research seminar**, The Graduate School, MSU, East Lansing, MI. *Local seminar.*
- 12/15 “Small molecules that inhibit *M. tuberculosis* two-component regulatory systems.” **University of Toledo**, Department of Medical Microbiology and Immunology. *Departmental seminar.*

- 09/15 "Tuberculosis therapeutics that inhibit bacterial sensing and resistance to host immunity." **Drug Discovery and Development in Michigan** - Cutting Edge, East Lansing, MI. *Statewide meeting.*
- 08/15 "Targeting *M. tuberculosis* pH-driven pathogenesis." **22<sup>nd</sup> Annual Midwest Microbial Pathogenesis Conference**, Indianapolis, IN. *Regional meeting.*
- 08/15 "Small molecules that inhibit *M. tuberculosis* two-component regulatory systems." **77th Harden Conference: Two Component Signaling in Bacteria: Integrating Approaches and Science**, Warwickshire, UK. *International meeting.*
- 06/15 "Jumpstarting the development of new treatments for drug resistant tuberculosis." **Robert J. Schultz Family Research Day**, Arcadia, MI. *Local meeting.*
- 02/15 "Glow Green! Using fluorescent biosensors to find new treatments for tuberculosis." **Classes Without Quizzes**, MSU College of Natural Sciences Alumni Weekend, East Lansing, MI. *Local meeting.*
- 02/15 "Glow Green! Using fluorescent biosensors to find new treatments for tuberculosis." **MSU Drug Discovery Seminar**, East Lansing, MI. *Local seminar.*
- 01/15 "Glow Green! Using fluorescent biosensors to find new treatments for tuberculosis." **MSU Respiratory Research Initiative**, East Lansing, MI. *Local seminar.*
- 04/14 "High throughput screens for inhibitors of *Mycobacterium tuberculosis* two-component regulatory systems." **Keystone Symposium on Novel Therapeutic Approaches to Tuberculosis**. Keystone, CO. *International meeting.*
- 08/13 "Targeting compounds and genes that modulate *Mycobacterium tuberculosis* pH-driven adaptation." **GLRCE Annual Meeting**, Chicago, IL. *Regional meeting.*
- 07/13 "Glow Green! Using fluorescent biosensors to find new treatments for tuberculosis." **Meriel-NIH Veterinary Scholars Symposium**, East Lansing, MI. *National meeting.*
- 08/12 "Targeting compounds and genes that modulate *Mycobacterium tuberculosis* pH-driven adaptation." **GLRCE Annual Meeting**, Chicago, IL. *Regional meeting.*
- 08/11 "Targeting compounds and genes that modulate *Mycobacterium tuberculosis* pH-driven adaptation." **GLRCE Annual Meeting**, Chicago, IL. *Regional meeting.*
- 01/06 "Suppression of plant immunity by a bacterial type III effector." The Microbe-Host Interactions Workshop at the **International Plant and Animal Genome XIV Conference**, San Diego, CA. *International meeting.*
- 06/04 "Suppression of plant defenses by the tomato pathogen *Pseudomonas syringae* pv. *tomato*." **75th annual meeting of the Canadian Phytopathological Society**, Ottawa, Canada. *International meeting.*
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## Selected Meeting Abstracts

- 01/17 “The acidic pH-dependent compound AC2P36 depletes *M. tuberculosis* thiol pools and potentiates the bactericidal activity of isoniazid, clofazimine and oxidizing agents” Poster presented at the 2017 Keystone Symposium on New Developments in our Basic Understanding of Tuberculosis, Vancouver, BC, Canada.
- 04/16 “Reporter-based phenotypic screens to discovery inhibitors of *Mycobacterium tuberculosis* two-component regulatory systems” Poster presented at the 2016 Keystone Symposium on Phenotypic Drug Discovery, Big Sky, MT.
- 07/15 “The carbonic anhydrase inhibitor ethoxzolamide inhibits the *Mycobacterium tuberculosis* PhoPR regulon, Esx-1 secretion and attenuates virulence.” Poster presented at the 2015 Gordon Research Conference on Tuberculosis Drug Development in Barcelona, Spain.
- 09/14 “A whole cell phenotypic screen in *M. tuberculosis* identifies ethoxzolamide as an inhibitor of the *phoPR* regulon.” Poster presented at the 2014 ASM Interscience Conference on Antimicrobial Agents and Chemotherapy. Washington, DC.
- 09/13 “Chemical biology investigations of *Mycobacterium tuberculosis* pH- and hypoxia-driven adaptation.” Poster presented at the 2013 Microbial Pathogenesis and Host Response meeting, Cold Spring Harbor, NY.
- 08/13 “High throughput screens for inhibitors of pH- and hypoxia-regulated fluorescence biosensors in *Mycobacterium tuberculosis*.” Poster presented at the 2013 Midwest Microbial Pathogenesis Conference, Columbus, OH.
- 07/13 “High throughput screens for inhibitors of pH- and hypoxia-regulated fluorescence biosensors in *Mycobacterium tuberculosis*.” Poster presented at the 2013 Gordon Research Conference on Tuberculosis Drug Development in Lucca, Italy.
- 09/12 “*reduced aprA* expression mutants identify pathways involved in *Mycobacterium tuberculosis* pH-driven adaptation” Poster presented at the Tuberculosis 2012 meeting in Paris, France.
- 01/11 “*aprABC*: A *Mycobacterium tuberculosis* complex-specific locus that modulates pH-driven adaptation to the macrophage phagosome” Poster presented at the Mycobacteria: Physiology, Metabolism and Pathogenesis Keystone Symposium, Vancouver, BC, Canada.
- 01/09 “Acid regulated *M. tuberculosis* reporter strains as tools for studies of pathogen adaptation to the macrophage phagosome” Poster presented at the Tuberculosis: Biology, Pathology and Therapy Keystone Symposium, Keystone, Colorado.
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**Current Research Support**

<b>National Institutes of Health, NIAID</b>	<b>R01 AI116605</b>	<b>12/01/15—11/30/20</b>
<i>Principal Investigator, \$1,356,684 Direct Costs</i>		
Mechanisms of <i>Mycobacterium tuberculosis</i> pH-driven adaptation		
<b>National Institutes of Health, NIAID</b>	<b>R21 AI1170181</b>	<b>8/20/16—7/31/19</b>
<i>Principal Investigator, \$275,000; Direct Costs to PI \$137,500.</i>		
Non-competitive proteasome inhibitors to treat chronic, drug-resistant TB		
<b>Bill &amp; Melinda Gates Foundation</b>	<b>OPP1119065</b>	<b>10/31/14—10/31/17</b>
<i>Principal Investigator, \$745,035 Direct Costs</i>		
Development of TB therapeutics that inhibit persistence and reduce antibiotic tolerance		
<b>MSU Foundation, Strategic Partnership Grant</b>	<b>14-SPG-Full-2966</b>	<b>07/01/15—06/30/18</b>
<i>Principal Investigator, \$399,079; Direct Costs to PI \$199,539</i>		
Non-competitive proteasome inhibitors to treat chronic, drug-resistant TB		
<b>Michigan Animal Agriculture Alliance</b>	<b>AA16006</b>	<b>01/01/16—12/31/17</b>
<i>Principal Investigator, \$41,076 Direct Costs</i>		
Fate of <i>Mycobacterium bovis</i> in ensiled forages		

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**Completed Research Support**

<b>National Institutes of Health, NIAID</b>	<b>R21 AI105867</b>	<b>08/08/13—07/31/16</b>
<i>Principal Investigator, \$256,427 Direct Costs</i>		
Screening for inhibitors of <i>Mycobacterium tuberculosis</i> persistence-associated lipid metabolism		
<b>Jean P. Schultz Endowed Biomedical Research Award</b>		<b>09/01/14—08/31/16</b>
<i>Principal Investigator, \$30,000 Direct Costs</i>		
Jumpstarting the development of new treatments for drug resistant tuberculosis		
<b>Michigan Initiative for Innovation and Entrepreneurship</b>		<b>01/01/14—10/31/14</b>
<i>Principal Investigator, \$44,022 Direct Costs</i>		
<i>in vivo</i> efficacy studies of first-in-class compounds to treat chronic, drug-resistant tuberculosis		
<b>National Institutes of Health, NIAID</b>	<b>U54 AI057153</b>	<b>03/01/12—02/28/14</b>
<i>Career Development Grant, \$230,000 Direct Costs to Robert Abramovitch (O. Schneewind, PI)</i>		
Targeting compounds and genes that modulate <i>Mycobacterium tuberculosis</i> pH-driven adaptation.		
<b>Bill &amp; Melinda Gates Foundation</b>	<b>OPP1059227</b>	<b>05/01/12—10/31/13</b>
<i>Principal Investigator, \$100,000 Direct Costs</i>		
Using a synthetic biosensor to find drugs targeting <i>Mycobacterium tuberculosis</i> persistence		

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## Professional Activities

- 2013-present Reviewer, **ASM Undergraduate Research Fellowships**.  
 2014: Proposal Reviewer, **Wellcome Trust**.  
 2015: Proposal Reviewer, **Irish Health Research Board**.  
 2015-present Editorial Board (Review Editor), **Frontiers in Cellular and Infection Biology**.  
 2016: Special Emphasis Panel “U.S. China Program for Biomedical Collaborative Research”, **NIH Study Section**.  
 2016: Special Emphasis Panel “Topics on Infectious Diseases and Drug Discovery”, **NIH Study Section**.  
 2016: Peer Review Medical Research Panel member: Discovery Awards – Tuberculosis, **Department of Defense Study Section**.  
 2016-present Editorial Advisory Board, **The Journal of Infectious Diseases**.

*Ad hoc* article reviewer (21 journals, 37 manuscripts reviewed): ACS Infectious Disease; Antimicrobial Agents and Chemotherapy; BMC Biotechnology; BMC Microbiology; Cell Host & Microbe; Cell Reports; Gene; Journal of Bacteriology; Journal of Infectious Diseases; Frontiers in Cellular and Infection Biology; MedChemComm; Molecular Microbiology; PLoS Computational Biology; Plos Pathogens; PLoS One; Proceedings of the National Academy of Sciences; Scientific Reports; Trends in Pharmacological Sciences; Tuberculosis; Veterinary Record Case Reports; Virulence.

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## Graduate student, Undergraduate Student, and Postdoctoral Mentoring

### *Graduate students*

- 2012- Jacob Baker (MD/PhD student)  
 2012-16 Benjamin Johnson PhD (currently Bioinformatics Scientist at Van Andel Institute)  
 2013- Huiqing Zheng (PhD student)  
 2014-16 Javiera Ortiz, DVM  
 2014-16 David Needle, DVM (currently Clinical Assistant Professor, Univ. of New Hampshire)

### *Undergraduate research students (and, if known, current position post-graduation)*

- 2012-13 Jessica Hallesy (lab manager, Rybak Lab, Wayne State University)  
 2012-14 Navi Sahi  
 2012-14 Devin Carter  
 2013-15 Hinako Terauchi (DO/PhD student, Michigan State University)  
 2013-15 Boitshoko Molefhi  
 2014-15 Robert Fillinger (PhD student, The Ohio State University)  
 2015-16 Hannah Bodnar  
 2015- Marilyn Werner  
 2016- Emily Juzwiak  
 2016- Hayley West  
 2016- Nana Abena Anti

### *Postdoctoral Researchers*

- 2014-15 Garry Coulson (currently Senior Associate Scientist at Q<sup>2</sup> Solutions, Raleigh NC)  
 2016- Rajni Goyal

*Summer research students*

2013 Cory Schall (MD summer student)  
 2014 Sabrina Rupani (DVM summer student)  
 2015 Katriana Jorgensen-Muga (NHLBI R25 summer undergraduate student)  
 2015 Tiffany Bryant (DVM summer student)  
 2016 A'Jah Chandler (NHLBI R25 summer undergraduate student)  
 2016 Elizabeth Haiderer (DVM summer student)  
 2016 Paulo Carneiro (LCS811 summer research project)

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**Graduate Committees***Committee member*

Darin Quach (Britton lab), Suttipun Sungusuwan (Huang lab), Alita Burmeister (Lenski lab), Peng Lu (Xi lab), Michelle Korir (Manning lab), Gregory Patten (Tepe lab), John Shook (Waters lab), Xiao Liang (Xi lab), Evert Njomen (Tepe Lab), Y Hoang (Kroos lab), Jeff Schachterle (Sundin Lab), Paulo Carneiro (Kaneene Lab), Michael Maiden (Waters lab), Justin DeKuiper (Coussens lab).

*Preliminary exam chair*

Natalia Porcek (Parent Lab), Laura Kirby (Koslowsky Lab), Ahrom Kim (Yu lab), Nico Fernandez (Waters lab), Sanjana Mukherjee (Manning lab).

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**Classroom Teaching***Courses taught:*

2012-2013 MMG532 (1 lecture), MMG563 (2 lectures), MMG861 (4 lectures)  
 2013-2014 MMG461 (14 lectures), MMG532 (1 lecture), MMG563 (8 lectures),  
 MMG801 (1 lecture)  
 2014-2015 MMG532 (1 lecture), MMG563 (4 lectures), MMG801 (1 lecture),  
 MMG861 (6 lectures), PDI851 (1 lecture)  
 2015-2016 MMG461 (14 lectures), MMG532 (1 lecture), MMG563 (4 lectures),  
 MMG801 (1 lecture), VM820 (1 lecture)  
 2016-2017 MMG532 (1 lecture), MMG563 (5 lectures), MMG861 (6 lectures)  
 PDI851 (1 lecture)

*Course names:*

MMG461: Molecular Pathogenesis (Undergraduate students)  
 MMG532: Medical Microbiology (Medical students)  
 MMG563: Veterinary Pathogenic Microbiology (Veterinary Medicine students)  
 MMG801: Integrative Microbial Biology (Graduate Students)  
 MMG861: Advanced Microbial Pathogenesis (Graduate Students)  
 PDI851: Advanced General Pathology (Veterinary Residents)  
 VM820: Topics in Comparative Medicine and Integrative Biology (Graduate Students)

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**Department, College and University Service**

2012	MMG Departmental Seminar Committee
2013	MMG Graduate Committee BMS Graduate Admissions Committee
2014	MMG Faculty Search Committee, Hugh Chair in Microbial Pathogenesis MMG Graduate Committee BMS Graduate Admissions Committee MMG Faculty Search Committee, Microbiome/Infectious Disease MMG Strategic Planning Retreat Committee
2015	MMG Graduate Committee MMG Faculty Search Committee, Hugh Chair in Microbial Pathogenesis CHM Faculty Search Committee, Chief of Division of Infectious Diseases CVM representative to the University Council and Faculty Senate CVM College Advisory Council, <i>ex officio</i> , <i>Secretary</i> . CVM Graduate Grievance Hearings Pool
2016	MMG Faculty Advisory Committee CVM representative to the University Council and Faculty Senate, <i>re-elected</i> CVM College Advisory Council, <i>with vote</i> , <i>Secretary</i> CVM Graduate Grievance Hearings Pool CHM Faculty Search Committee, Chief of Division of Infectious Diseases
2017	CVM representative to the University Council and Faculty Senate, <i>re-elected</i> CVM College Advisory Council, <i>with vote</i> , <i>Secretary</i>

MMG: Department of Microbiology and Molecular Genetics; CVM: College of Veterinary Medicine; CHM: College of Human Medicine. Years are academic years (starting in August).

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