

## CURRICULUM VITAE

### A. GENERAL INFORMATION

Name: Peter R. Panizzi, Ph. D.

Academic Position: Assistant Professor

Contact Information: Harrison School of Pharmacy  
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Research Porfolio: [http://www.researchgate.net/profile/Peter\\_Panizzi/](http://www.researchgate.net/profile/Peter_Panizzi/)

Project ALIAS: <http://www.vetmed.auburn.edu/research/alias/>

### B. EDUCATION AND TRAINING:

- 2007 – 2009 Post Doctoral Research Fellow: Center for Molecular Imaging Research, MGH-Harvard University, Boston, MA. Advisor: Ralph Weissleder, M.D., Ph.D.
- 2004 – 2007 Post Doctoral Research Fellow: Vanderbilt University School of Medicine, Nashville, TN. Advisor: Paul E. Bock, Ph.D.
- 2000 - 2004 Doctoral degree, Vanderbilt University, Nashville, Tennessee, Dept. of Cellular and Molecular Pathology, Dissertation title: "Mechanisms of Staphylocoagulase in the Pathology of Endocarditis", Paul E. Bock, Ph.D.
- 1999 – 1996 Masters degree, Vanderbilt University, Nashville, Tennessee, Dept. of Biochemistry, Thesis title: "Expression of Fosfomycin Resistant Proteins", Richard N. Armstrong, Ph.D.
- 1996 – 1993 Bachelor of Science (with Honors): University of Montevallo, Montevallo, Alabama.

### C. POSITIONS HELD:

- 2010 – Pres. Assistant Professor: Department of Pharmacal Sciences, Harrison School of Pharmacy, Auburn University, Auburn, AL.
- 2009 – 2010 Instructor of Radiology: Center for Systems Biology, MGH-Harvard, Boston, MA

#### D. HONORS AND AWARDS:

- Auburn University - Outstanding Graduate Mentor (2015)
- Southeastern Conference Travel Award (2014)
- Auburn University/ HSOP- Excellence in Research Award (2011, 2012, 2013)
- NIH Small Business Innovation Research-Phase 2 (R44) for (2012-2015)
- NIH Pathway to Independence (K99R00) (2009-2013)
- Promega Instrument Grant (2010)
- NIH Ruth L. Kirschstein NRSA (F32) (2008-2010)
- Partners Center for Drug Discovery Award For Mass. General Hospital (2007-2008)
- Young Investigator Award of International Society on Thrombosis and Haemostasis (2003 & 2009)
- Dissertation Enhancement Grant from Vanderbilt Univ., (2003)

#### E. AREA OF RESEARCH INTEREST:

- Biochemistry
- Pathobiology of Bacteria Diseases
- Pathology
- Protein Structure and Function
- Molecular Imaging
- Molecular Probe Design
- Enzyme Kinetics
- Thermodynamics

#### F. PROFESSIONAL MEMBERSHIPS:

- Member of American Association for the Advancement of Science, 2003-present
- Member of American Society for Biochemistry and Molecular Biology, 2004-present
- Member of American Society for Microbiology, 2006-present
- Member of the Society of Molecular Imaging, 2009-present
- Member of the American Heart Association, 2012-present
- Member of the American Society of Hematology, 2013-present

#### G. PUBLICATIONS:

##### Peer-Reviewed Articles

1. Friedrich R\*, Panizzi P\*, Fuentes-Prior P, Richter K, Verhamme I, Anderson PJ, Kawabata S, Huber R, Bode W, Bock PE. "Staphylocoagulase is a Prototype for the Mechanism of Cofactor-induced Zymogen Activation." **Nature**. 2003, 425: 535-9 - PMID: [14523451](#) (*Impact Factor 38.60*)
2. Panizzi P, Friedrich R, Fuentes-Prior P, Bode W, Bock PE. "The Staphylocoagulase Family of Zymogen Activator and Adhesion Proteins." **Cellular and Molecular Life Sciences**. 2004, 61: 2793-8. (**Cover**) - PMID: [15558209](#) - PMCID: [PMC2291352](#) (*Impact Factor 5.62*)
3. Bianchini E, Orcutt SJ, Panizzi P, Bock PE, and Krishnaswamy, S. "Ratcheting of the Substrate From the Zymogen to Proteinase Conformations Directs the Sequential Cleavage of Prothrombin by Prothrombinase", **Proc. Natl. Acad. Sci. USA**, 2005, 102: 10100-10104 - PMID: [16006504](#) - PMCID: [PMC1174926](#) (*Impact Factor 9.74*)
4. Panizzi P, Friedrich R, Fuentes-Prior P, Kroh H, Briggs J, Tans G, Bode W, Bock PE. "Novel Fluorescent Prothrombin Analogs as Probes of Staphylocoagulase-Prothrombin interactions." **J. Biol. Chem.**, 2006, 281: 1169-78. - PMID: [16230340](#) - PMCID: [PMC2292460](#) (*Impact Factor 4.65*)

- Panizzi P\*, Friedrich R\*, Fuentes-Prior P, Richter K, Bock PE, Bode W. "Fibrinogen Recognition by the Staphylocoagulase•(Pro)thrombin Complexes." *J. Biol. Chem.*, 2006, 281: 1179-87. - PMID: [16230339](#) - PMCID: [PMC2291351](#) (*Impact Factor 4.65*)
5. Friedrich R\*, Panizzi P\*, Kawabata S, Bock PE, Bode W, and Fuentes-Prior P. "Structural Basis for Reduced Staphylocoagulase-Mediated Bovine Prothrombin Activation." *J. Biol. Chem.*, 2006, 281:1188-95. (**Cover**) - PMID: [16230338](#) - PMCID: [PMC2292465](#) (*Impact Factor 4.65*)
  6. Panizzi P, Boxrud PD, Verhamme IM, and Bock PE. "Binding of the COOH-terminal Lysine Residue of Streptokinase to Plasmin(ogen) Kringles Enhances Formation of the Streptokinase•Plasmin(ogen) Catalytic Complexes." *J. Biol. Chem.*, 2006, 281: 26774-8. - PMID: [16857686](#) - PMCID: [PMC2663426](#) (*Impact Factor 4.65*)
  7. Bock PE, Panizzi P and Verhamme IM. "Exosites in the Substrate Specificity of Blood Coagulation Reactions." *J. Thrombosis and Haemostasis*, 2007, 5: 84-91. - PMID: [17635714](#) - PMCID: [PMC2291348](#) (*Impact Factor 5.55*)
  8. Munnix ICA, Kuijpers MJE, Auger J, Thomassen CMLGD, Panizzi P, van Zandvoort MAM, Rosing J, Bock PE, Watson SP, Heemskerk JWM. "Signaling-induced Transient Integrin Activation Controls Segregation of Procoagulant and Aggregatory Microdomains in Thrombus Formation", *ATVB*, 2007, 27: 2484-90. - PMID: [17761939](#) - PMCID: [PMC2376762](#) (*Impact Factor 6.34*)
  9. Hacisalihoglu A, Panizzi P, Bock PE, Camire RM and Krishnaswamy S. "Restricted Active Site Docking by Enzyme-bound Substrate Enforces the Ordered Cleavage of Prothrombin by Prothrombinase", *J. Biol. Chem.* 2007, 282: 32974–32982. - PMID: [17848548](#) - PMCID: [PMC2292459](#) (*Impact Factor 4.65*)
  10. Nahrendorf M, Zhang H, Hembrador S, Panizzi P, Aikawa E, Libby P, Swirski FK and Weissleder R. "Nanoparticle PET-CT Imaging of Macrophages in Inflammatory Atherosclerosis", *Circulation*. 2008, 117: 379-387. - PMID: [18158358](#) - PMCID: [PMC2663426](#) (*Impact Factor 15.20*)
  11. Nahrendorf M\*, Sosnovik D\*, Chen J, Panizzi P, Figueiredo JL, Aikawa E, Libby P, Swirski FK, and Weissleder R, "Activatable Magnetic Resonance Imaging Agent Reports Myeloperoxidase Activity in Healing Infarcts and Noninvasively Detects the Antiinflammatory Effects of Atorvastatin on Ischemia-Reperfusion Injury", *Circulation*. 2008, 117: 1153-60. - PMID: [18268141](#) - PMCID: [PMC2673051](#) (*Impact Factor 15.20*)
  12. Kroh H, Panizzi P, Bock PE. "von Willebrand Factor Binding Protein is a Novel Hysteretic Conformational Activator of Prothrombin." *Proc. Natl. Acad. Sci. USA*. 2009, 106: 7786-91 - PMID: [19416890](#) - PMCID: [PMC2683071](#) (*Impact Factor 9.74*)
  13. Tharp AC\*, Laha M\*, Panizzi P, Thompson MW, Fuentes-Prior P and Bock PE Plasminogen by Plasminogen Substrate Recognition by the Streptokinase-Plasminogen Catalytic Complex by Lys<sup>256</sup> AND Lys<sup>257</sup> in the Streptokinase  $\beta$ -domain and kringle 5 of the substrate" 2009, *J. Biol. Chem.*, 284:19511-21. - PMID: [19473980](#) - PMCID: [PMC2740577](#) (*Impact Factor 4.65*)
  14. Nahrendorf M, Keliher E\*, Panizzi P\*, Zhang H\*, Hembrador S, Libby P, Kelly K and Weissleder R. "18F-4V for PET-CT imaging of VCAM-1 expression in atherosclerosis.", 2009, *J Am Coll Cardiol Img*, 2(10): 1213-22 (**Cover**). PMID: [19833312](#) - PMCID: [PMC2773129](#) (*Impact Factor 14.09*)
  15. Swirski FK, Nahrendorf M, Etzrodt M, Wildgruber M, Cortez-Retamozo V, Panizzi P, Figueiredo JL, Kohler R, Chudnovskiy A, Waterman P, Aikawa E, Mempel T, Libby P, Weissleder R and Pittet MJ. "Identification of Splenic Reservoir Monocytes and Their Deployment to Inflammatory Sites" 2009, *Science*, 325: 612-6 - PMID: [19644120](#) - PMCID: [PMC2803111](#) (*Impact Factor 31.03*)
  16. Nahrendorf M\*, Waterman P\*, Thurber G, Groves K, Rajopadhye M, Panizzi P, Marinelli B, Pittet M, Swirski FK and Weissleder R. "Hybrid In Vivo FMT-CT Imaging of Protease Activity in

- Atherosclerosis with Customized Nanosensors” 2009, **ATVB**, 29: 1444-51 - PMID: [19608968](#) - PMCID: [PMC2746251](#) (*Impact Factor 6.34*)
17. Sosonik DE, Nahrendorf M, [Panizzi P](#), Matsui T, Aikawa E, Li L, Reynolds F, Dorn G, Weissleder R, Josephson L and Rosenzweig A. “Molecular MRI of Low Levels of Cardiomyocyte Apoptosis in Transgenic Model of Heart Failure” 2009, **Circulation: Cardiol Img.** 2(6): 468-75. 2009 Nov;2(6):468-75. - PMID: [19920045](#) - PMCID: [PMC2782621](#) (*Impact Factor 5.94*)
  18. [Panizzi P](#), Nahrendorf M, Wildgruber M, Figueiredo JL, McCarthy, Weissleder R, and Hilderbrand S. “Oxazine Conjugated Iron Oxide Nanoparticle Detects In Vivo Reactive Oxygen Species Generation” 2009, **J Am Chem Society**, 131(43): 15739-44. - PMID: [19817443](#) - PMCID: [PMC2773134](#) (*Impact Factor 11.86*)
  19. [Panizzi P](#), Swirski FK, Figueiredo JL, Waterman P, Sosnovik DS, Aikawa E, Libby P, Pittet M, Weissleder R, and Nahrendorf M. “Atherosclerosis-associated Ly-6C<sup>hi</sup> Blood Monocytosis Impairs Wound Healing in Mice with Myocardial Infarction” 2010, **J Am Coll Cardiol**; 55 (15): 1629-1638. - PMID: [20378083](#) - PMCID: [PMC2852892](#) (*Impact Factor 10.68*)
  20. Berny MA, Munnix ICA, Auger JM, Schols SEM, Cosemans JMEM, [Panizzi P](#), Bock PE, Watson SP, McCarty OJT, Heemskerk JWM. "Location of Coagulation Factors in Shear Flow Dependent Thrombus Formation." 2010, **Plos One.** 5(4):e10415 - PMID: [20454680](#) - PMCID: [PMC2861630](#) (*Impact Factor 3.73*)
  21. Wiles KG, [Panizzi P](#), Bock PE. “Skizzle is a Novel Plasminogen and Plasmin Binding Protein Secreted by *Streptococcus agalactiae*.” 2010, **JBC** 285(27): 21153-64 -PMID: [20435890](#) - PMCID: [PMC2898333](#) (*Impact Factor 4.65*)
  22. Swirski F, Wildgruber M, Figueiredo JL, [Panizzi P](#), Stone J, Rodriguez E, Chen JW, Pittet M, Weissleder R, and Nahrendorf M. “MPO-rich Ly-6C<sup>+</sup> Myeloid Cells Infiltrate Allografts and Contribute to an Imaging Signature of Organ Rejection in Mice.” 2010, **J Clin Invest.** 120(7): 2627-34 - PMID: [20577051](#) - PMCID: [PMC2898607](#) (*Impact Factor 14.69*)
  23. Leuschner F, [Panizzi P](#), Chico-Calero I, Cortez-Retamozo V, Waterman P, Gorbatov R, Marinelli B, Iwamoto Y, Chudnovskiy A, Figueiredo JL, Lee WW, Sosnovik DE, Pittet MJ, Swirski FK, Weissleder R, Nahrendorf M. “ACE Inhibition Improves infarct Healing by Preventing the Release of Monocytes from Splenic Reservoir” 2010, **Circulation Research.** Nov 26;107(11):1364-73. ePub - PMID: [20930148](#) - PMCID: [PMC2898607](#) (*Impact Factor 11.86*)
  24. Laha M\*, [Panizzi P](#)\*, Nahrendorf M and Bock PE. “Engineering Streptokinase for Generation of Active-Site Labeled Plasminogen Analogs.” **Analytical Biochemistry.** 2011, 415(2):105-15 – PMID [21570944](#) - PMCID: [PMC3114107](#) (*Impact Factor 2.97*)
  25. Kroh HK\*, [Panizzi P](#)\*, Tchaikovski S\*, Baird TR, Wei N, Krishnaswamy S, Tans G, Rosing J, Furie B, Furie BC, Bock PE. “Active site-labeled prothrombin inhibits prothrombinase *in vitro* and thrombosis *in vivo*. 2011, **JBC** 286(26): 23345-56 – PMID [21531712](#) - PMCID: [PMC3123099](#) (*Impact Factor 4.65*)
  26. [Panizzi P](#), Nahrendorf M, Figueiredo JL, [Panizzi JR](#), Marinelli B, Iwamoto Y, Keliher E, Waterman P, Kroh HK, Maddur AA, Aikawa E, Hackeng T, Fuentes-Prior P, Bock PE and Weissleder R, “In vivo Detection of Staphylococcus aureus Endocarditis by targeting Pathogen-specific Prothrombin Activation” 2011, **Nature Medicine.** 17(9):1142-6. PMID [21857652](#) - PMCID: [PMC3169740](#) (*Impact Factor 24.30*)
  27. Leuschner F, Dutta P, Gorbatov R, Novobrantseva TI, Donahoe JS, Courties G, Lee KM, Kim JI, Markmann JF, Marinelli B, [Panizzi P](#), Lee WW, Iwamoto Y, Milstein S, Epstein-Barash H, Cantley W, Wong J, Cortez-Retamozo V, Newton A, Love K, Libby P, Pittet MJ, Swirski FK, Kotliansky V, Langer R, Weissleder R, Anderson DG, Nahrendorf M. “Therapeutic siRNA

- Silencing in Inflammatory Monocytes in Mice.” **Nature Biotechnology** 29(11):1005-10. – PMID 21983520. PMID [21983520](#)- PMCID: [PMC3212614](#) (*Impact Factor* 32.44)
28. Su HS, Nahrendorf M, [Panizzi P](#), Breckwoldt MO, Rodriguez E, Iwamoto Y, Weissleder R, Chen JW. “Vasculitis: Molecular Imaging by Targeting the Inflammatory Enzyme Myeloperoxidase.” 2012, **Radiology** 262(1): 181-90. – PMID [22084204](#) - PMCID: [PMC3244672](#) (*Impact Factor* 6.21)
  29. Leuschner F, Rauch PJ, Ueno T, Gorbato R, Marinelli B, Lee WW, Dutta P, Wei Y, Robbins C, Iwamoto Y, Sena B, Chudnovskiy A, [Panizzi P](#), Keliher E, Higgins JM, Libby P, Moskowitz MA, Pittet MJ, Swirski FK, Weissleder R, Nahrendorf M. “Rapid Monocyte Kinetics in Acute Myocardial Infarction are Sustained by Extramedullary Monocytogenesis.” 2012, **J. Exp. Med.** 209(1):123-37 – PMID [22213805](#) - PMCID: [PMC3260875](#) (*Impact Factor* 13.21)
  30. Cortez-Retamozo V, Etzrodt M, Newton A, Ryan R, Pucci F, Sio SW, Kuswanto W, Rauch PJ, Chudnovskiy A, Iwamoto Y, Kohler R, Marinelli B, Gorbato R, Wojtkiewicz G, [Panizzi P](#), Mino-Kenudson M, Forghani R, Figueiredo JL, Chen JW, Xavier R, Swirski FK, Nahrendorf M, Weissleder R, Pittet MJ. “Angiotensin II Drives the Production of Tumor-Promoting Macrophages.” 2013, **Immunity**. 38(2):296-308 – PMID: [23333075](#) - PMCID: [PMC3582771](#) (*Impact Factor* 20.72)
  31. Davis R<sup>#</sup>, Hossain MJ, Liles MR, [Panizzi P](#). “Complete Genome Sequence of *Staphylococcus aureus* Tager 104, a ST49 ancestor.” 2013, **Genome Announcement** 1(5): e00706-13 – PMID [24029757](#) - PMCID: [PMC3772141](#)(*Impact Factor* PENDING)
  32. Huang J<sup>#</sup>, Smith F, [Panizzi P](#). “Ordered Cleavage of Myeloperoxidase Ester Bonds Releases Active site Heme Leading to Inactivation of Myeloperoxidase by Benzoic Acid Hydrazide Analogs” 2014, **Archives of Biochemistry and Biophysics** 548:74-85, PMID: [24632143](#) - PMCID: [PMC4336777](#) (*Impact Factor* 3.25)
  33. Heidt T, Courties G, Dutta P, Sager HB, Sebas M, Iwamoto Y, [Panizzi P](#), Da Silva N, Swirski FK, Weissleder R, Nahrendorf M “Differential Contribution of Monocytes to Heart Macrophages in Steady-State and After Myocardial Infarction.” 2014, **Circ. Research** 115(2):284-95 PMID: [24786973](#) - PMCID: [PMC4082439](#)(*Impact Factor* 11.86)
  34. [Panizzi P](#)<sup>\*</sup>, Stone J, Nahrendorf M<sup>\*</sup> “Endocarditis and Molecular Imaging.” 2014, **J. Nuclear Cardiology** Volume 21(3): 486-495. PMID: [24797384](#) - PMCID: [PMC4106242](#) (*Impact Factor* 2.9);
  35. Eggleston H<sup>#</sup>, [Panizzi P](#) “Molecular Imaging of Bacterial Infections *In vivo*: The Discrimination of Infection From Inflammation.” 2014, **Informatics**, 1(1), 72-99 PMID: PENDING (*Impact Factor pending*)
  36. Zaher AM, Makboul MA, Moharrum AM, Davis R<sup>#</sup>, [Panizzi P](#), Calderón AI. “Characterization of Metabolites of an Antibacterial Endophyte *Botryodiplodia theobromae* Pat of *Dracaena draco* L. by LC-MS/MS.” 2015, **Nat. Prod. Res.** Feb 19:1-7 PMID: [25693860](#) (*Impact Factor* 1.23)
  37. Huang J<sup>#</sup>, Smith F, [Panizzi JR](#), Goodwin DC, [Panizzi P](#). “Inactivation of Myeloperoxidase by Benzoic Acid Hydrazide.” 2015, **Archives of Biochemistry and Biophysics**, 570, 14–22. doi: [10.1016/j.abb.2015.01.028](#). (*Impact Factor* 3.25)
  38. Clark A<sup>#</sup>, Huang J<sup>#</sup>, [Panizzi P](#). “Detection of Pathogens From Biopsy by Use of Sortase Activity.” 2015, **Auburn Univ. Journal of Undergraduate Scholarship (AUJUS)**, 2015. (*Impact Factor Pending*)
  39. Verhamme IM, [Panizzi P](#) and Bock PE. “Pathogen Activators of Plasminogen.” 2015, **J. Thrombosis and Haemostasis**, In Press. - PMID: [xxxxx](#) - PMCID: [PMCxxxx](#) (*Impact Factor* 5.55)

40. Davis RW<sup>#</sup>, Eggleston H<sup>#</sup>, Johnson F<sup>#</sup>, Nahrendorf M, Bock PE, Peterson T<sup>#</sup>, Panizzi P. "In vivo Tracking of Streptococcal Infections of Subcutaneous Origin in a Murine Model." 2015, ***Molecular Imaging and Biology***, In Press (*Impact Factor 2.869*), PMID: [25921659](#), PMCID: PENDING.
41. Parker ET, Wehtje GR, McElroy JS, Flessner ML, and Panizzi P "Physiological Basis for Differential Selectivity of Four Grass Species to Aminocyclopyrachlor." 2015, ***Weed Science*** submitted PMID: *in press* (doi: 10.1614/WS-D-15-00053.1) (*Impact Factor 1.87*)
42. Zaher AM, Moharrum AM, Davis R<sup>#</sup>, Panizzi P, Makboul MA, Calderón AI. "Antibacterial, antifungal, PfTrxR and MtSK inhibitory activities of ten endophytic fungi isolated from Egyptian plants." 2015, ***Pharmaceutical Biology*** submitted PMID: [xxxx](#) (*Impact Factor 1.34*)
43. Huang J<sup>#</sup>, Milton A<sup>#</sup>, Arnold RD, Smith F, Panizzi JR, Panizzi P. "Myeloperoxidase and Tracking Neutrophil Function Through Molecular Imaging." ***Journal of Leukocyte Biology***, submitted 2015, - PMID: [xxx](#) - PMCID: [xxxx](#) (*Impact Factor 4.30*)
44. Davis R<sup>#</sup>, Hossain MJ, Liles MR, Panizzi P. "Genomic and Pathogenic Characterization of *Staphylococcus aureus* Tager 104, a Historic Microbiology Strain and a Potent Endocardial Pathogen." 2015, - PMID: [xxx](#) - PMCID: [xxxx](#) (*Impact Factor X.XX*)
45. Mead D, Jasinovica S, Ferguson E, Davis R<sup>#</sup>, Panizzi P, Liles M, Lodes M, Monsma S. "Closing and Finishing Microbial Genomes with Short Read Sequencers" Summer 2015, ***TBD*** in preparation - PMID: [xxx](#) - PMCID: [xxxx](#) (*Impact Factor X.XX*)

\*Denotes equal author contribution.

#Denotes trainee of the Panizzi Lab

#### Invited Chapters:

1. Panizzi P, Kroh HK, Fuentes-Prior P, and Bock PE. "Staphylocoagulase." Toxins and Hemostasis: From Bench to Bedside, Springer; 1st Edition (Jun 29 2010).

#### Patents:

1. Hilderbrand S, McCarthy J, Panizzi P, and Weissleder R. "**Novel Fluorescent Sensor for Imaging of Inflammation**." Filed in Massachusetts, (Spring 2011).
2. Panizzi P, Arnold RD, Brannen AD and Nahrendorf M. "**Mouse Imaging Spinner (MiSpinner)**." Filed in Alabama, (Summer 2014). U.S. PROVISIONAL APPLICATION NO.: 62/020,056
3. Panizzi P, Clark A and Jiansheng Huang. "**Detection of Pathogens From Biopsy by Use of Sortase Activity**" Filed in Alabama, (Summer 2015). U.S. PROVISIONAL APPLICATION NO.: AU INV#2015-023.

#### Meeting Presentations:

1. Friedrich R, Panizzi P, Richter K, Kawabata, S, Fuentes-Prior P, Bock PE and Bode W. "Structure and Function of Serine Proteinase Zymogen Activators." (Sept 2002). 15<sup>th</sup> International Congress on Fibrinolysis and Proteolysis, Munich, DE.
2. Panizzi PR, Friedrich R, Huber R, Fuentes-Prior P, Bode W and Bock PE. "Fibrinogen Substrate Recognition by the Staphylocoagulase-Prothrombin Complex." (July 2004). Gordon Research Conference, New London, NH, USA.
3. Panizzi PR, Friedrich R, Huber R, Fuentes-Prior P, Bode W and Bock PE. "Fibrinogen Substrate Recognition by the Staphylocoagulase-Prothrombin Complex." (July 2004). XVIIIth International Fibrinogen Workshop, Chapel Hill, NC, USA.

4. Friedrich, R; Panizzi P, Bode W and Bock PE. "Staphylocoagulase is a Prototype for the Molecular Sexuality Mechanism of Zymogen Activation." (March 2004). 16<sup>th</sup> International Congress on Fibrinolysis and Proteolysis, Melbourne, AU.
5. Panizzi PR. "Novel Prothrombin Analogs as Probes of the Mechanism of Fibrinogen Recognition by the Prothrombin-Staphylocoagulase Complex." (July 2003) Invited seminar at the Max-Planck Institute for Biochem., Martinsred, DE.
6. Panizzi PR, Friedrich R, Verhamme I, Anderson P J, Huber R, Fuentes-Prior P, Bode W and Bock PE. "Mechanisms of Conformational Activation of Prothrombin by Staphylocoagulase and Fibrinogen Substrate Recognition." (July 2003). XIXth International Congress on Thrombosis and Haemostasis, Birmingham, UK.
7. Baird TR, Panizzi PR, Chang N, Bock PE, Furie B and Furie BC. "Prothrombin Colocalizes to the Platelet and Vessel Wall Interface After Laser Induced Thrombosis Injury." (Aug 2005). XXth International Congress on Thrombosis and Haemostasis, Sydney, AU.
8. Panizzi PR, Boxrud P, Verhamme IM, and Bock PE. "The Streptokinase C-Terminal Lysine Enhances SK·Plasminogen and SK·Plasmin Catalytic Complex Formation." (April 2005). Experimental Biology ASBMB, San Diego, CA, USA.
9. Panizzi PR, Boxrud P, Verhamme IM, and Bock PE. "Role of the Streptokinase C-Terminal Lysine in Lysine-Binding Site Dependent Interactions with Plasminogen and Plasmin." (April 2005). Xth International Workshop on Molecular and Cellular Biology of Plasminogen Activation, Washington, DC USA. (invited talk)
10. Panizzi PR. "Structural Basis for Reduced Staphylocoagulase-mediated Bovine Prothrombin Activation." (Sept 2005). 2<sup>nd</sup> Tennessee Structural Biology Symposium, Nashville, TN. (invited talk)
11. Panizzi P\*, Kroh HK\*, Bock PE. "von Willebrand Factor Binding Protein is a Novel Conformational Activator of Prothrombin that Functions Via the Molecular Sexuality Mechanism." (July 2006). Gordon Research Conference, New London, NH, USA.
12. Kroh HK\*, Panizzi P\*, Bock PE. "von Willebrand Factor Binding Protein is a Staphylocoagulase Homolog with Enhanced Prothrombin Activation Ability in the Presence of Substrate." (July 2006). Gordon Research Conference, New London, NH, USA.
13. Bock PE, Panizzi P, Kroh HK. "von Willebrand Factor Binding Protein is a Novel Conformational Activator of Prothrombin that Functions Through a Substrate-assisted Molecular Sexuality Mechanism." (Aug 2006). 18<sup>th</sup> International Congress on Fibrinolysis and Proteolysis, San Diego, CA, USA.
14. Wiles K, Panizzi P, Bock PE. "Skizzle from *Streptococcus Agalactiae* 2603 V/R is a Novel Plasmin(ogen) Binding Protein." (Sept 2006). 3<sup>rd</sup> Annual Tennessee Structural Biology Symposium, Knoxville, TN, USA.
15. Creamer JI , Panizzi PR, Bock PE. "Sfbx from *Streptococcus Pyogenes* is a Novel Prothrombin Activator." (Dec 2006). American Society of Hematology, Orlando, FL, USA.
16. Panizzi P and Bock PE. "Identification and Characterization a Sodium Ion Binding Site on the Staphylocoagulase-Prothrombin Complex." (Dec 2006). American Society of Hematology, Orlando, FL, USA.
17. Kroh HK, Panizzi P, Bock PE. "von Willebrand Factor Binding Protein is a Novel Conformational Activator of Prothrombin." (July 2007). XXIth International Congress on Thrombosis and Haemostasis, Geneva, CHE.

18. Wiles K, Panizzi P, Bock PE. "Skizzle, a Novel Plasmin(ogen) Binding Protein and Plasminogen Activator from *Streptococcus agalactiae*." (July 2007). XXIth International Congress on Thrombosis and Haemostasis, Geneva, CHE
19. Nahrendorf M, Sosnovik DE, Chen J, Figueiredo JL, Panizzi P, Aikawa E, Weissleder R. "In vivo MR Imaging of Myeloperoxidase Activity in Myocardial Injury and Healing." (Sept 2007). Annual Meeting Society of Molecular Imaging, Providence, RI, USA
20. Sosnovik DE, Nahrendorf M, Panizzi P, Aikawa E, Matsui T, Reynolds F, Weissleder R, Josephson L, and Rosenzweig A. "Molecular MRI of Apoptosis in Heart Failure is Possible with AnxCLIO-Cy5.5 and Correlates Strongly with Myocardial Caspase-3 Activity." (Sept 2008) World Molecular Imaging Congress, Nice, France.
21. Nahrendorf M, Keliher E, Panizzi P, Zhang H, Hembrador S, Libby P, Kelly K and Weissleder R. "VCAM-1 Targeted PET-CT Detects Inflammatory Atherosclerotic Plaques." (Nov 2008). American Heart Association, New Orleans, LA, USA
22. Khan A, Panizzi P, Kroh HK, Bock PE, and Krishnaswamy S. "Conformational Activation of Zymogen-Like Thrombin Variants by Tight Binding Ligands." (Dec 2008) ASH, San Francisco, CA, USA.
23. Panizzi P, Nahrendorf M, Wildgruber M, Waterman P, Figueiredo JL, Aikawa E, McCarthy JR, Weissleder R, and Scott Hilderbrand. "Oxazine Conjugated Nanoparticle Detects In Vivo Reactive Oxygen Species Generation." (Sept 2009) World Molecular Imaging Congress, Montreal, Canada. (invited talk)
24. Panizzi P, Swirski FK, Figueiredo JL, Waterman P, Sosnovik DE, Aikawa E, Libby P, Pittet M, Weissleder R, and Nahrendorf M. "Atherosclerosis-associated Ly-6Chi blood monocytes impairs wound healing in mice with myocardial infarction." (Sept 2009) World Molecular Imaging Congress, Quebec, Canada.
25. Sosnovik DE, Aikawa E, Nahrendorf M, Dai G, Figueiredo JL, Panizzi P, Matsui T, Rosenzweig A, Weissleder R, and Josephson L. "Distinct Patterns of Cardiomyocyte Apoptosis in Acute Ischemic Injury and Heart Failure Detected In-Vivo with Molecular MRI." (Sept 2009) World Molecular Imaging Congress, Montreal, Canada.
26. Nahrendorf M, Keliher EJ, Panizzi P, Zhang H, Figueiredo JL, Aikawa E, Libby P, and Weissleder R. "VCAM-1 Targeted PET-CT Detects Inflammatory Atherosclerotic Plaques." (Sept 2009) World Molecular Imaging Congress, Montreal, Canada.
27. Nahrendorf M, Waterman P, Thurber GM, Groves K, Rajopadhye M, Panizzi P, Marinelli B, Pittet M, Swirski FK, and Weissleder R, "Hybrid in vivo FMT-CT imaging of cathepsin activity in atherosclerosis with customized protease nanosensors." (Sept 2009) World Molecular Imaging Congress, Montreal, Canada.
28. Maddur AA, Panizzi P, Fuentes-Prior P, and Bock PE. "Interaction of Fibrinogen with the Staphylocoagulase•Prothrombin\* Complex." (Feb 2012) Gordon Research Conference, Ventura, CA.
29. Bock PE, Kroh HK, Davis MB, and Panizzi P. "Staphylocoagulase and von Willebrand Factor Binding Protein." (Feb 2012) Gordon Research Conference, Ventura, CA, USA.
30. Bock PE, Kroh HK, Panizzi P, Nannemann D, Sheehan J, and Meiler J. "Specificity of the Amino-terminal Binding Pocket of Prothrombin from the Perspective of Staphylocoagulase." (July 2012) Hemostasis Gordon Research Conference, Waterville Valley, NH, USA.
31. Panizzi P, "Impact of NIH Career Awards on Early Career Investigators: My Experiences from Auburn, Al." (July 2013) NHLBI K Award Investigator's Meeting, Bethesda, MD, USA.

32. Davis R, Hossain MJ, Liles MR, Panizzi P. "Complete Genome Sequence of *Staphylococcus aureus* Tager 104, a ST49 ancestor" (July 2013) NHLBI K Award Investigator's Meeting, Bethesda, MD, USA.
33. Davis R, Panizzi P, "Contribution of Host Thrombosis and Fibrinolytic Cascades to the Pathogenesis of Gram-Positive Infections." (Nov. 2013) Bacteriology 2013, Baltimore, MD, USA.
34. Brannen AD, Davis RW 4<sup>th</sup>, Panizzi P. "Molecular Basis for Species-Specific Prothrombin Activation by *Staphylococcus aureus* in Bovine Mastitis." (April 2014) Harrison School of Pharmacy Research Symposium, Auburn University, AL, USA.
35. Davis RW 4<sup>th</sup>, Hossain MJ, Liles MR, Panizzi P. "Genomic and Pathogenic Characterization of *Staphylococcus aureus* Tager 104, a Historic and Potent Endocardial Pathogen." (April 2014) Harrison School of Pharmacy Research Symposium, Auburn University, AL, USA.
36. Brannen AD, Davis RW 4<sup>th</sup>, Panizzi P. "Molecular Basis for Species-Specific Prothrombin Activation by *Staphylococcus aureus* in Bovine Mastitis." (April 2014) Auburn University Research Week, Auburn University, Auburn University, AL, USA.
37. Brannen AD, Davis RW 4<sup>th</sup>, Panizzi P. "Molecular Basis for Species-Specific Prothrombin Activation by *Staphylococcus aureus* in Bovine Mastitis." (May 2014) American Society for Microbiology 114<sup>th</sup> General Meeting, Boston, MA, USA.
38. Davis RW 4<sup>th</sup>, Hossain MJ, Liles MR, Panizzi P. "Genomic and Pathogenic Characterization of *Staphylococcus aureus* Tager 104, a Historic and Potent Endocardial Pathogen." (May 2014) American Society for Microbiology 114<sup>th</sup> General Meeting, Boston, MA, USA.
39. Davis RW 4<sup>th</sup>, Eggleston H, Hill M, Panizzi P. "A Modified Kirby-Bauer Protocol for the Differentiation of Bacteriostatic and Bactericidal Mechanisms in *Bioluminescent Staphylococcus aureus*." (September 2014) Southeastern Microbiology Summit, Ponte Vedra Beach, FL, USA.
40. Dobson C, Pickering C, David A, Panizzi P. and Arnold RD, Development of a Two-Stage Gold-Lipidic Nanocomposite Drug Delivery System, Biomedical Engineering Society (BMES) Southeast Biomedical Engineering Career Conference (SECBECC), September 26, 2014 in Atlanta, Ga.
41. Brannen AD, Eggert M, Arnold RD, Panizzi P. "A Simple Method for the 360-Degree Acquisition of Bioluminescence, Fluorescence, or X-ray Data using a Mouse Imaging Spinner (MiSpinner)\*" (October 2014) NanoBio Summit 2014, Tuscaloosa, AL, USA.
42. Dobson C, Pickering C, Eggert M, Panizzi P and Arnold RD. "Early Development of Gold-Lipidic Nanocomposites for the Detection and Treatment of Prostate Cancer", Biomedical Engineering Society (BMES) Annual Meeting, October 22-25, 2014 in San Antonio, Texas.
43. Huang J, Smith F, Panizzi P. "Ordered cleavage of myeloperoxidase ester bonds releases active site heme leading to inactivation of myeloperoxidase by benzoic acid hydrazide analogs." Harrison School of Pharmacy Graduate Research Symposium, March 2014, Auburn, AL, USA.
44. Brannen AD, Davis RW 4<sup>th</sup>, Panizzi P. "Molecular Basis for Species-Specific Prothrombin Activation by *Staphylococcus aureus* in Bovine Mastitis." (April 2014) Auburn University Graduate Research Symposium, Auburn University, AL, USA.
45. Huang J, Smith F, Panizzi P. "Ordered cleavage of myeloperoxidase ester bonds releases active site heme leading to inactivation of myeloperoxidase by benzoic acid hydrazide analogs." Auburn University Graduate Research Symposium, April 2014, Auburn, AL, USA.
46. Huang J, Smith F, Panizzi P. "In vivo imaging of myeloperoxidase in prostate cancer by cy5 hydrazide." Auburn University 3 Minutes Thesis Competition. October 2014, Auburn, AL, USA.

47. \*Pickering, C., \*Dobson, C., David, A.E., Panizzi, P. and Arnold, R.D., Development and Characterization of a Gold-Lipidic Nanocomposite Chemotherapeutic Delivery System, 2014 NanoBio Summit, University of Alabama, October 23-24, 2014 in Tuscaloosa, AL.
48. \*Dobson, C., \*Pickering, C., David, A., Panizzi, P. and **Arnold, R.D.**, Development of a Two-Stage Gold-Lipidic Nanocomposites Drug Delivery System, American Institute of Chemical Engineers (AIChE) 2014 Annual Meeting, Atlanta, GA, 10/14. **Won 1<sup>st</sup> Place Poster Competition (Food, Pharmaceuticals and Biotechnology)**
49. Huang J, Smith F, Panizzi J, Goodwin D, Panizzi P. "Myeloperoxidase inactivation and heavy chain labeling by cyanine 5-hydrazide." The 8<sup>th</sup> annual Boshell Research Day February 2015, Auburn, AL, USA.
50. Brannen AD, Eggert M, Arnold RD, Panizzi P. "Assessing the Relationship of Subject Orientation to Bioluminescent/Fluorescent Signal Intensity using the Mouse Imaging Spinner (MiSpinner) for Segmental 360-Degree *in vivo* Imaging" (March 2015) Harrison School of Pharmacy Research Symposium, Auburn University, AL, USA.
51. Davis RW 4<sup>th</sup>, Hill M, Bostany L, Panizzi P. "Streamlining Protocols for Antibiotic Characterization Using Bioluminescence Imaging." (March 2015) Harrison School of Pharmacy Research Symposium, Auburn University, AL, USA
52. Huang J, Smith F, Panizzi J, Goodwin D, Panizzi P. "Inactivation of myeloperoxidase by benzoic acid hydrazide analogs." The Auburn University Harrison School of Pharmacy Graduate Research Symposium, March 2015, Auburn, AL, USA.
53. Brannen AD, Eggert M, Arnold RD, Panizzi P. "Segmental 360° Bioluminescent Imaging using the Mouse Imaging Spinner (MiSpinner) Shows Potential For Accurate Monitoring of Tumor Development" (April 2015) This is Research 2015, Auburn University, AL, USA.
54. Davis RW 4<sup>th</sup>, Monsma S, Mead D, Hossain MJ, Liles MR, Panizzi P. "Mate-Pair Libraries for the Automated Completion of Microbial Genomes." (April 2015) This is Research 2015, Auburn University, AL, USA.
55. Dobson, C., Pickering, C., Panizzi, P., David, A. and Arnold, R.D., "Preparation of Gold-Lipidic Nanocomposites for Enhanced Tumor Imaging and Chemotherapeutic" (March 2015), Harrison School of Pharmacy Research Day, Auburn AL, 3/15
56. Eggert, M.W., Burcham, A.M., Quach, N.D., Brannen, A., Panizzi, P., Cummings, B.S. and Arnold, R.D., "*In-vitro* and *In-vivo* Characterization of Responsive Liposome Nanoparticles Targeted to Prostate Cancer via sPLA2 Enzymes and PLA2R Receptors" (March 2015), Harrison School of Pharmacy Research Day, Auburn AL,
57. Huang J, Smith F, Panizzi J, Goodwin D, Panizzi P. "Inactivation of myeloperoxidase by benzoic acid hydrazide analogs." The Auburn University's Graduate Research Symposium at Research Week, April 2015, Auburn, AL, USA.
58. Clark A, Huang J, Panizzi P. "Detection of pathogen from biopsy by use of sortase activity." The 115<sup>th</sup> General Meeting of American Society of Microbiology, May 30- June 2, 2015, New Orleans, LA, USA.
59. Brannen, A., Eggert, M., Nahrendorf, M., Arnold, R.D. and Panizzi, P., Segmental 360° Bioluminescent Imaging using the Mouse Imaging Spinner (MiSpinner) Shows Potential For Accurate Monitoring of Tumor Development, 2015 World Molecular Imaging Society (WMIS) Annual Congress, Honolulu, USA

**H. EDITORIAL BOARD REVIEW PANEL / STUDY SECTION**

- Editorial Board Member, Mycobacterial Diseases (2010 – present)
- Editorial Board Member, Clinical Pharmacology & Biopharmaceutics (2010 – present)
- Editorial Board Member, Journal of Molecular Imaging and Molecular Biology (2014 – present)

**I. ADHOC REVIEWER FOR JOURNALS**

- Journal of Biological Chemistry
- Circulation Research
- Biochimica et Biophysica Acta
- AJP: Heart and Circulatory Physiology

**I. ADHOC REVIEWER FOR RESEARCH FOUNDATIONS**

- 2010, America Heart Association: Proteins & Crystallography 1 committee.
- 2011, America Heart Association: Proteins & Crystallography 1 committee.
- 2012, America Heart Association: Proteins & Crystallography 1 committee.
- 2013, America Heart Association: Proteins & Crystallography 3 committee.
- 2014, America Heart Association: Thrombosis BSc 2 committee.
- 2015, America Heart Association: Thrombosis BSc 2 committee.

**K. GRANT SUPPORT**

<b>Source</b>	<b>Role**</b>	<b>Budget Period</b>	<b>Amount</b>	<b>Status*</b>
NIH-F32HL094010	PI	09/01/08 – 09/15/09	\$107,398	Funded & completed
NIH-K99HL094533	PI	09/15/09 – 07/31/11	\$272,700	Funded & completed
Partners Center for Drug Discovery MGH/ Harvard	Co-PI	2007-2009	\$40,000	Funded & completed
Promega Inc.	PI	2010	\$7,500	Funded & completed
Intramural Grant Level IV Auburn University (HSOP Led)	PI	2011	\$250,000 (AU-OVPR \$75,000)	Funded & completed
NIH-R00HL094533	PI	08/15/11-06/30/13	\$746,991	Funded & Active
<b>NIH-R44AI085840 Ole Miss &amp; Lucigen</b>	<b>MPI, 1 of 5</b>	<b>03/01/12- 08/15/2015</b>	<b>\$3,000,000 total (AU sub \$600,000; Panizzi \$243,391)</b>	<b>Active</b>

Intramural Grant Level IV Auburn University (COSAM)	PF	2012	\$150,000 (AU-OVPR \$100,000)	Funded & completed
AU-CMB Undergraduate Research Fellowship Son "Jimmy" Cheng	PI	2012	\$5,000 (\$2,000 supplies)	Funded & completed
<b>NIH - R01 HL114477-01A1 Mass. General Hosp.</b>	<b>MPI, 1 of 2</b>	<b>06/15/13- 06/14/2017</b>	<b>\$1,250,000 total (Panizzi \$454,440)</b>	<b>Funded &amp; Active</b>
NSF IGERT: Pharmaceutical Engineering	PF	7/1/2013- 6/30/2018	\$3,211,302 (Panizzi GRA/PD funds)	Unfunded
AHA – Innovation	PI	01/01/13- 12/31/2014	\$150,000 total	Unfunded
Intramural Grant Level III Auburn University (CVM Led)	Co-PI	2013	\$160,000 (Panizzi \$60,000)	Unfunded
AuRIC seed grant "Project ALIAS- Nuance Camera"	Co-PI, 1 of 5	2013	\$20,000	Funded & Completed
AuRIC seed grant "Project ALIAS- Update to IVIS Lumina XR imager"	Co-PI, 1 of 3	2013	\$20,000	Funded & Completed
AuRIC / MRI – Rodent Models of Cancer "MR and Bioluminescent Imaging of Mouse Models..."	MPI, 1 of 3	06/01/13- 05/30/2014	\$100,000	Funded & Active
<b>NIH - R01 HL071544-11A1 Vanderbilt University</b>	<b>Sub</b>	<b>08/01/13- 07/30/2018</b>	<b>\$1,250,000 total (Panizzi \$166,500)</b>	<b>Funded &amp; Active</b>
NIH – 2 R01 HL056181 Vanderbilt University	Sub	04/01/14- 03/31/2019	\$1,250,000 total (Panizzi \$185,000)	Submitted
AuRIC / Major Grants Program "Human Colon Cancer: New Models and Technologies"	Co-PI, 1 of 2	10/01/13- 09/30/2014	\$200,000	Unfunded
NIH - R01 CA125063 Au-CVM (PI: Valery Petrenko)	Co-I	10/01/14- 09/30/2017	\$1,250,000 total (Panizzi \$185,000)	Submitted
<b>AuRIC / Graduate Fellowship "Imaging Myeloperoxidase Activity in Colon and Prostate Cancer"</b>	<b>Mentor, Jiansheng Huang</b>	<b>03/01/14- 09/30/2015</b>	<b>\$31,871</b>	<b>Funded</b>
AU-CMB Undergraduate Research Fellowship Andrew Clark	PI	2014	\$5,000 (\$2,000 supplies)	Funded & completed

Intramural Grant Level IV Auburn University (HSOP) <i>"Multi-Spectral Optoacoustic Tomography (MSOT) imaging system"</i>	PI	2014	\$350,000 (Au-OVPR \$50k, CMB \$60k, HSOP \$150k, AuRIC \$50k, CVM \$25k, CoE \$10k, CoHS \$5k)	Unfunded (revisited outside IGP & Funded)
<b>Intramural Grant Level III Auburn University (CoAg)</b> <i>"Ca<sup>2+</sup> transcriptional regulation in bacterial pathogens studied by microfluidics"</i>	<b>Co-I</b>	<b>2014</b>	<b>\$125,000</b> <b>(AU-OVPR \$50,000,</b> <b>Panizzi, 2 yrs of ½</b> <b>GTA support)</b>	<b>Funded</b>
<b>NIH – 1R21AI121679-01</b>	<b>PI</b>	<b>12/01/15- 11/30/2020</b>	<b>\$1,727,615.40</b>	<b>Submitted</b>
AuRIC - Major Grants <i>"Imaging of Cancer with the New MiSpinner and MSOT Technologies Validated by 7 Tesla MRI at Auburn University"</i>	PI	7/01/15-6/30/17	\$200,000	Unfunded
<b>AU-CMB Undergraduate Research Fellowship Anna Boling</b>	<b>PI</b>	<b>2015</b>	<b>\$5,000</b> <b>(\$2,000 supplies)</b>	<b>Funded &amp; completed</b>

\*Current Active based on 04/2015 are in **bold**

\*\*Description of Roles: PI: Principal Investigator, MPI: Multi-Principal Investigator, I: Investigator, PF: Participating Faculty, Sub: subcontract project.

**L. THESIS / DISSERTATION ADVISORSHIP/ MENTORSHIP**

<b>Name</b>	<b>Role</b>	<b>Degree</b>	<b>Title</b>	<b>Date</b>	<b>Status</b>
<b>Richard Davis*</b>	Mentor	Ph.D.	Vegetation-forming Determinants in Staphylococcal Endocarditis – A Multi-Discipline Approach	08/11 – present	<b>Active</b>
<b>Jiansheng Huang*</b>	Mentor	Ph.D.	Rapid Reaction Kinetics of Myeloperoxidase and Assessment of Inhibitors	1/13 – present	<b>Active</b>
<b>Yiwei Liu*</b> (J.Shen, DDD)	Advisor	Ph.D.	Purinergic Control of Tissue Factor Expression	08/11 – present	<b>Active</b>
<b>Andrew Brannen</b>	Mentor	Ph.D.	Development of MiSpinner Technology for Optical Imaging	08/12 – present	<b>Active</b>
<b>Amber Milton</b> (J.Panizzi, CVM)	Co-Mentor	Ph.D.	TBD	08/14 – present	<b>Active</b>
<b>Mary Smith</b>	Mentor	M.S.	TBD	08/15 – present	<b>Active</b>
<b>Tareq Anani</b> (A. David, ChemE)	Advisor	Ph.D.	TBD	08/14 – present	<b>Active</b>
<b>Shamima Nasrin*</b> (M. Liles, BioSci)	Advisor	Ph.D.	TBD	07/13 – present	<b>Active</b>
<b>Lingxin Zhang*</b> (J.Shen, DDD)	Advisor	Ph.D.	TBD	08/13 – present	<b>Active</b>
Wanshu Ma* (J.Shen, DDD)	Advisor	Ph.D.	Macrophage CXCR7: A Potential New Target for Atherosclerosis	08/10 – 08/13	Completed
Kavita Kakirde* (M. Liles, BioSci)	Reader	Ph.D.	Functional Genomics of Soil Bacteria using a Metagenomics Approach	08/08 – 04/12	Completed
Heather Eggleston	Mentor	M.S.	Characterization of Xen 10 and Xen 20	01/13 – 06/14	Completed, transferred to Ohio St.

\*Denotes Ph.D. Candidate Level Obtained

\*\*Current Active based on 03/2015 are in **bold**

**M. LIST OF COURSES TAUGHT:**

<b>Course Name</b>	<b>Code</b>	<b>Section Title or Role</b>	<b>Date</b>	<b>Contact Hours</b>
Pharmacology I	PYPS 8340	"Proteases and Inhibitors"	Fall 2011 & 2012	6

Pharmacology II	PYPS 8350	<i>"Immune System"</i>	Spring 2012 & 2012	4
PS Seminar	PYPS7950, PYPS 8950	<b>Course Organizer</b>	Fall 2012 & Spring 2013	1 each
Undergraduate Research	BIOL 4980, PYPS 4980	Research	Continuous	N/A
Honors Thesis	BIOL 4990	Research	Son "Jimmy" Chen (2013), Andrew Clark (2015)	N/A
Drugs and Disease III	PYDI 5200	<i>"Inflammatory Diseases"</i>	Sept. 2011 & 2012 & 2013	6
Survey of Molecular Imaging	PYPS 5800, PYPS 6800	<b>Course Organizer</b>	Summer 2013, Fall 2104	15
Survey of Molecular Imaging for Pharm.D.	PYDI 9800	<b>Course Organizer</b>	Approved by HSOP faculty, 03/2015	15

**N. LIST OF COURSES DEVELOPED:**

<b>Course Name</b>	<b>Code</b>	<b>Section Title</b>	<b>Date Taught</b>	<b>Credit Hours</b>
Survey of Multi- Modality Molecular Imaging	PYPS 5800 PYPS 6800	Approved Jan. 2013	Summer 2013, Fall 2014, Fall 2015	2
Survey of Multi- Modality Molecular Imaging For Pharm. D,	PYDI 9800	Approved by PEC and full faculty Mar. 2015	Fall 2015	2

**O. UNDERGRADUATE/ PHARM D MENTORSHIP**

<b>Name</b>	<b>Degree</b>	<b>Current Position</b>	<b>Date</b>	<b>Status</b>
Caitlin Brougham	UG	AU-Nursing	Summer 2011	Completed
Andrew Brannen	UG	AU- Grad. School	Summer 2011, 2012	Completed
Ashley Fish	UG	Emory Univ.	Summer 2011, 2012	Completed
Jared Dyer	UG	Virginia Tech, DO School	Summer 2011	Completed
Son "Jimmy" Cheng (CMB USRS)	UG	AU-COSAM	Fall 2011, Summer 2012	Completed

Frances Johnson	PharmD	AU-HSOP	Summer 2012	Completed
Cedrickas Barnes	UG	AU-COSAM	Fall 2012	Completed
Heather Eggleston	UG	AU-Chemistry	Fall 2012, Spring 2013	Completed
Charles "Cole" Wilson	UG	AU-COSAM	Fall 2012, Spring 2013	Completed
Tiffany Peterson	DVM	AU-CVM	Summer 2013	Completed
Matt Gilleran	UG	AU-COSAM	Spring 2013, Fall 2013	Completed
Mary Hawk	UG	AU-COSAM	Spring 2013, Fall 2013	Completed
Griffin McDaniels	UG	AU-COSAM	Summer 2013, Fall 2013	Completed
Elizabeth Manning	UG	AU-COSAM	Fall 2013	Completed
Andrew Clark (COSAM 2014 Outstanding Junior Awardee, CMB USRS, and Dean's Medalist 2015 Awardee)	UG	AU-COSAM	Fall 2013, Spring 2014, Fall 2014, Spring 2015	Completed
Sally Thompson (President Supplementary Awardee)	UG	AU-COSAM	Fall 2013, Spring 2014	Completed
David Capote	UG	AU-COSAM	Fall 2013, Spring 2014	Completed
Daniel Fleming	UG	AU-COSAM	Fall 2013, Spring 2014	Completed
Chris Pruiett	UG	AU-COSAM	Spring 2014	Completed
Andrew Wilkins	UG	AU-COSAM	Spring 2014	Completed
Micaila Hill	UG	AU-COSAM	Spring 2014, Fall 2014, Spring 2015	Active
Elizabeth Nyguen	UG	AU-COSAM	Spring 2014, Fall 2014	Completed
Aaron Garrett	PharmD	AU-HSOP	Spring 2014	Completed
Molly Wright	UG	AU-COSAM	Spring 2014, Fall 2014,	Active

Spring 2015				
Karissa Campbell	UG	AU-COSAM	Fall 2014, Spring 2015	Completed
Leah Bostany (President Supplementary Awardee; Au-UGRF)	UG	AU-COSAM	Fall 2014, Spring 2015, Summer 2015	Active
Anna Boling (President Supplementary Awardee; CMB USRS)	UG	AU-COSAM	Spring 2015, Summer 2015, Fall 2015	Active
Morgan Brazelle	UG	AU-COSAM	Summer 2015, Fall 2015	Active