CURRICULUM VITAE

**DATE: Dec 17, 2019**

**NAME:**  **PADMAPRIYA P BANADA**

**PRESENT TITLE: Assistant Professor, Faculty of Infectious Diseases**

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**OFFICE ADDRESS: 185 S. ORANGE AV., MSB A904, NEWARK, NJ 07103**

**TELEPHONE NUMBER/**

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**CITIZENSHIP: USA**

**EDUCATION**:

1. Undergraduate Graduate and Professional

*BANGALORE UNIVERSITY*

*BANGALORE, KARNATAKA, INDIA*

*BSc (Microbiology, Chemistry, Zoology)* *Date Awarded: June 1995*

1. Graduate and Professional

*BANGALORE UNIVERSITY*

*BANGALORE, KARNATAKA, INDIA*

*MSc (Microbiology)*  *Date Awarded: June 1997*

1. Graduate and Professional

*MYSORE UNIVERSITY*

*MYSORE, KARNATAKA, INDIA*

*PHD (Microbiology)*  *Date Awarded: Dec 2004*

**POSTGRADUATE TRAINING:**

A. Research Fellowships

*CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE (CFTRI), MYSORE, INDIA*

MOLECULAR DIAGNOSTICS

JAN 1999 TO MAR 2000

1. Postdoctoral Appointments

Purdue University, W. Lafayette, IN

FOOD MICROBIOLOGY

JUN 2003 TO OCT 2007

**ACADEMIC APPOINTMENTS:**

1. *DEPARTMENT OF MEDICINE, CENTER FOR INFECTIOUS DISEASES*

*RUTGERS UNIVERSITY*

*RTS III*

*DEC 2007 TO JUN 2012*

1. *DEPARTMENT OF MEDICINE, CENTER FOR INFECTIOUS DISEASES*

*RUTGERS UNIVERSITY*

*RTS I*

*JUL 2012 TO JUL 2016*

1. *DEPARTMENT OF MEDICINE, CENTER FOR INFECTIOUS DISEASES*

*RUTGERS UNIVERSITY*

*Instructor*

*AUG 2016 TO JUN 2018*

1. *DEPARTMENT OF MEDICINE, CENTER FOR INFECTIOUS DISEASES*

*RUTGERS UNIVERSITY*

*Assistant Professor*

*AUG 2018 TO JUL 2019*

**OTHER EMPLOYMENT:**

1. **Research associate** Bangalore University, Bangalore, India

Sep 1997-Jan 1999

**MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:**

*American society for Microbiologists*

*Member*

*2003-current*

*National Food Science Association, Phi Tau Sigma*

*Elected member*

*2006-2007*

*American Association for Academy of Sciences*

*Member*

*2007-2008*

**HONORS AND AWARDS:**

1. Purdue University Agriculture team award, Purdue University, May 2006
2. Senior Research Fellowship award, Council for Scientific and Industrial Research (CSIR)-New Delhi, India. April 2000
3. Outstanding Service as Online Mentor award

American Society for Microbiology, USA 2005, 2006, 2007, 2008 and 2009.

**SERVICE ON MAJOR COMMITTEES:**

1. International:
   1. External examiner for PhD thesis evaluation, Mysore University, Mysore, India 2009
2. *AdHoc* Reviewer:
   1. Health Security (formerly Biosecurity and Bioterrorism) 2019
   2. Revista do Instituto de Medicina Tropical de São Paulo (2019)
   3. Theranostics (2017)
   4. Journal of Clinical Microbiology (2016- current)
   5. Journal of Food Safety (Since 2010 to current)
   6. BMC medicine (2014)
   7. PLOS One (2013-current)
   8. Biotechnology and Bioengineering (Sep 2010)
   9. Journal of Food Science (Feb 2011, July 2011, Sep 2011, Oct 2011, July 2014)
   10. Journal of Medicine and Medical Sciences (Sep 2011)
3. Editorial board member  
   1. PeerJ (current)

2. Institute of Food Technologists Magazine (India) (current)

**SERVICE TO THE COMMUNITY:**

1. American Society for Microbiology, 2005-2010: Served as Online mentor.
2. Special Olympics 2014, New Jersey: Served as a volunteer (Healthy Athletes)
3. North Jersey Regional Science fair 2012 and 2016 to 2019-Rutgers University, New Jersey: Judge for Microbiology division
4. North Jersey Regional Science fair, Rutgers University, New Jersey: Committee member (2017)
5. Honors Living-Learning Community, Rutgers University, Newark: Evaluator for recruiting the 2017 incoming class.
6. Regional Science Olympiad coach for children from Woodbrook Elementary School, Edison, NJ.
7. New Jersey Science Olympiad State tournament held on March 12, 2019 at Middlesex County college, Edison, NJ for the section: Experimental design C.

**GRANT SUPPORT:** *(Please list newest or most current first)*

1. Co-Investigator/ protocol team:
2. *FIND Diagnostics, Multicentre Trial to Evaluate the Diagnostic Accuracy of a Stool Processing Kit Combined with Xpert MTB/RIF Ultra for Paediatric TB Diagnosis Using Microbiological Confirmation on Respiratory Samples as the Reference Standard Protocol #7210-07-2/1 ver 2.0\_SA-UG. Feb 2019.*
3. *FIND Diagnostics, Xpert Stool Processing study (Study Protocol): Development and optimization for diagnosis of pediatric TB using Stool specimens. P07012-05. Oct 2014.*
4. *National Institute of Allergy and Infectious Diseases (NIAID) and Clinical Diagnostics Research Consortium (CDRC) contract # HHSN272200900050C, Detection of Mycobacterium tuberculosis by GeneXpert in Pediatric Stool Samples: A Laboratory Sub-study of “Improving TB Diagnosis in Children with and without HIV in Kenya”29 September 2013.*
5. *FIND Diagnostics, Evaluation of Xpert MTB/RIF for the detection of TB in whole blood of HIV-positive, symptomatic adults, Feasibility study protocol. Study number: 7210 – 1/3, 2013* ($42,650)*.*
6. *NIH grant: On demand blood tests for select agent diagnosis. R01 AI111397. 04/01/14-03/31/19. Role: Co-Investigator.*
7. *NIH grants (as Co-Investigator)*:
   1. *Simple and rapid POC detection for fungemia (Approved for funding: $3,719,110.00)*
8. *Department of Defense: The GeneXpert® Omni: A Man-Portable Diagnostic Testing Device for the DoD” (Approved for funding).*
9. **Ongoing Research Support**

*NIH grant: R01: Detection of TB in stool (NIH Funded: started in Dec 2017). Role: Co-investigator.*

**PUBLICATIONS:**

1. Refereed Original Article in Journal
2. ***Banada PP****, Deshpande S, Banik, S, Shah D, Koshy R, Patel B, Kwiatkowski R, Persing D, Alland D. Multiplex detection of three select agents directly from blood using the GeneXpert system. J. Clin. Microbiol. 57(5). pii: e00036-19, 2019.*
3. *Walters E, Scott L, Nabeta P, Demers AM, Reubenson G, Bosch C, David A, van der Zalm M, Havumaki J, Palmer M, Hesseling AC, Ncayiyana J, Stevens W, Alland D, Denkinger C,* ***Banada P.*** *Molecular Detection of Mycobacterium tuberculosis from Stools in Young Children by Use of a Novel Centrifugation-Free Processing Method. J Clin Microbiol. 56(9). pii: e00781-18, 2018.*
4. ***Banada PP,*** *Deshpande S, Russo R, Singleton E, Shah D, Patel B, Burday M, Koshy R, Wang Q, Jones M, Gall A, Lokhov S, Kwiatkowski R, Persing D, Connell N, Alland D. Rapid Detection of Bacillus anthracis Blood Stream Infections Using a Novel Assay in the GeneXpert System. J Clin Microbiol 55(10): 2964-2971, 2017.*
5. *Chakravorty S, Simmons AM, Rowneki M, Parmar H, Cao Y, Ryan J,* ***Banada PP****, Deshpande S, Shenai S, Gall A, Glass J, Krieswirth B, Schumacher SG, Nabeta P, Tukvadze N, Rodrigues C, Skrahina A, Tagliani E, Cirillo DM, Davidow A, Denkinger CM, Persing D, Kwiatkowski R, Jones M, Alland D. The New Xpert MTB/RIF Ultra: Improving Detection of Mycobacterium tuberculosis and Resistance to Rifampin in an Assay Suitable for Point-of-Care Testing. MBio. 8(4), 2017.*
6. ***Banada PP****, Deshpande S, Chakravorty S, Russo R, Occi J, Meister G, Jones KJ, Gelhaus CH, Valderas MW, Jones M, Connell N, Alland D. Sensitive Detection of Francisella tularensis Directly from Whole Blood by Use of the GeneXpert System.****J Clin Microbiol.*** *55(1):291-301, 2016.*
7. ***Banada PP,*** *Naidoo U, Deshpande S, Karim F, Flynn JL, O’Malley M, Jones M, Nanassy O, Jeena P, Alland D. A novel sample processing method for rapid detection of tuberculosis in the stool of pediatric patients using the Xpert MTB/RIF assay. PloS One.* *11(3):e0151980, 2016.*
8. *Shenai S, Armstrong DT, Valli E, Dolinger DL, Nakiyingi L, Dietze R, Dalcomo MP, Nicol MP, Zemanay W, Manabe Y, Hadad DJ, Marques-Rodrigues P, Palaci M, Peres RL, Gaeddert M, Armakovitch S, Nonyane BA, Denkinger CM,* ***Banada P****, Joloba ML, Ellner J, Boehme C, Alland D, Dorman SE; TB Clinical Diagnostics Research Consortium. Analytical and Clinical Evaluation of the Epistem Genedrive Assay for Detection of Mycobacterium tuberculosis. J Clin Microbiol.02847-15. 2016*
9. *Shenai S, Amisano D, Ronacher K, Kriel M,* ***Banada PP,*** *Song T, Lee M, Joh JS, Winter J, Thayer R, Via LE, Kim S, Barry CE 3rd, Walzl G, Alland D. Exploring alternative biomaterials for diagnosis of pulmonary tuberculosis in HIV-negative patients by use of the GeneXpert MTB/RIF assay. J Clin Microbiol. 51(12):4161-6, 2013.*
10. ***Banada PP,*** *Koshy R, Alland D. Detection of Mycobacterium tuberculosis in blood by use of the Xpert MTB/RIF assay. J Clin Microbiol. 51(7):2317-22, 2013.*
11. *Feasey NA,* ***Banada PP,*** *Howson W, Sloan DJ, Mdolo A, Boehme C, Chipungu GA, Allain TJ, Heyderman RS, Corbett EL, Alland D. Evaluation of Xpert MTB/RIF for detection of tuberculosis from blood samples of HIV-infected adults confirms Mycobacterium tuberculosis bacteremia as an indicator of poor prognosis. J Clin Microbiol. 51(7):2311-6, 2013.*
12. *Huff K, Aroonnual A, Littlejohn AE, Rajwa B, Bae E,* ***Banada PP,*** *Patsekin V, Hirleman ED, Robinson JP, Richards GP, Bhunia AK. Light-scattering sensor for real-time identification of Vibrio parahaemolyticus, Vibrio vulnificus and Vibrio cholerae colonies on solid agar plate. Microb Biotechnol. 5(5):607-20, 2012.*
13. *Chakravorty S, Kothari H, Aladegbami B, Cho EJ, Lee JS, Roh SS, Kim H, Kwak H, Lee EG, Hwang SH,* ***Banada PP,*** *Safi H, Via LE, Cho SN, Barry CE 3rd, Alland D. Rapid, high-throughput detection of rifampin resistance and heteroresistance in Mycobacterium tuberculosis by use of sloppy molecular beacon melting temperature coding. J Clin Microbiol. 50(7):2194-202 2012.*
14. ***Banada PP,*** *Sivasubramani SK, Blakemore R, Boehme C, Perkins MD, Fennelly K, Alland D. Containment of bioaerosol infection risk by the Xpert MTB/RIF assay and its applicability to point-of-care settings. J Clin Microbiol. 48(10):3551-7 2010.*
15. ***Banada PP,*** *Chakravorty S, Shah D, Burday M, Mazzella FM, Alland D. Highly sensitive detection of Staphylococcus aureus directly from patient blood. PLoS One. 7(2):e31126 2012.*
16. *Blakemore R, Story E, Helb D, Kop J,* ***Banada P****, Owens MR, Chakravorty S, Jones M, Alland D. Evaluation of the analytical performance of the Xpert MTB/RIF assay. J Clin Microbiol. 48(7):2495-501, 2010.*
17. *Bueno VF, Banerjee P,* ***Banada PP,*** *José de Mesquita A, Lemes-Marques EG, Bhunia AK. Characterization of Listeria monocytogenes isolates of food and human origins from Brazil using molecular typing procedures and in vitro cell culture assays. Int J Environ Health Res. 20(1):43-59, 2010.*
18. *Helb D, Jones M, Story E, Boehme C, Wallace E, Ho K, Kop J, Owens MR, Rodgers R,* ***Banada P****, Safi H, Blakemore R, Lan NT, Jones-López EC, Levi M, Burday M, Ayakaka I, Mugerwa RD, McMillan B, Winn-Deen E, Christel L, Dailey P, Perkins MD, Persing DH, Alland D. Rapid detection of Mycobacterium tuberculosis and rifampin resistance by use of on-demand, near-patient technology. J Clin Microbiol. 48(1):229-37, 2010.*
19. ***Banada PP,*** *Huff K, Bae E, Rajwa B, Aroonnual A, Bayraktar B, Adil A, Robinson JP, Hirleman ED, Bhunia AK. Label-free detection of multiple bacterial pathogens using light-scattering sensor. Biosens. Bioelectron 24(6): 1685-92, 2009.*
20. *Bhattacharya S, Salamat S, Morisette D,* ***Banada P****, Akin D, Liu YS, Bhunia AK, Ladisch M, Bashir R.2008 PCR-based detection in a micro-fabricated platform. Lab Chip. 8(7):1130-6, 2008.*
21. *Lathrop, A.,* ***Banada PP*** *\* and Bhunia AK. Differential Expression of InlB and ActA in Listeria monocytogenes in Selective and Nonselective Enrichment Broths. J. Appl. Microbiol. 104(3): 627-39 2008. (\*equal contribution authorship)*
22. *Ngamwongsatit P,* ***Banada PP,*** *Panbangred W, Bhunia AK WST-1-based cell cytotoxicity assay as a substitute for MTT-based assay for rapid detection of toxigenic Bacillus species using CHO cell line. J Microbiol Methods. 73(3): 211-5, 2008.*
23. *Bhattacharya S, Salamat S, Morisette D,* ***Banada P****, Akin D, Liu YS, Bhunia AK, Ladisch M, Bashir R. PCR-based detection in a micro-fabricated platform. Lab Chip 8(7):1130-6, 2008. .*
24. *Yang L,* ***Banada PP,*** *Bhunia AK, Bashir R. Effects of Dielectrophoresis on Growth, Viability and Immuno-reactivity of Listeria monocytogenes. J Biol. Eng. 2:6, 2008.*
25. *Liu, Y-S.,* ***Banada PP****, S Bhattacharya, AK Bhunia and R Bashir. Electrical Characterization of DNA Molecules in Solution using Impedance Measurements. Appl. Phys. Lett. 92 (14): 143902-1-3, 2008.*
26. *Rajwa B, Venkatapathi M, Ragheb K,* ***Banada PP,*** *Hirleman ED, Lary T, Robinson JP. Automated classification of bacterial particles in flow by multiangle scatter measurement and support vector machine classifier. Cytometry A. 73(4):369-379, 2008.*
27. *Venkatapathi M, Rajwa B, Ragheb K,* ***Banada PP,*** *Lary T, Robinson JP, Hirleman ED. 2008. High speed classification of individual bacterial cells using a model-based light scatter system and multivariate statistics. Appl Opt. 47(5):678-86.*
28. *Bae, E.,* ***Banada PP****, K Huff, AK Bhunia, JP Robinson, ED Hirleman. 2007. Analysis of time-resolved scattering from macroscale bacterial colonies. J. Biomed. Optics 13(1):014010*
29. *Banada, PP., S Guo, B Bayraktar, E Bae, B Rajwa, JP Robinson, ED Hirleman and AK Bhunia Optical forward scattering for colony identification and differentiation of Listeria species. Biosens. Bioelectron. 22 (8):1664–71, 2007.*
30. *Bae, E.,* ***Banada PP****, K Huff, AK Bhunia, JP Robinson, ED Hirleman. Bio-physical modeling of forward scattering from bacterial colonies using scalar diffraction theory. Appl. Optics. 46 (17) 3639-48, 2007.*
31. *Banada, PP., Y-S Liu, L Yang, R Bashir and AK Bhunia. Performance evaluation of a Low Conductive Growth Medium for growth of microorganisms including Listeria monocytogenes under normal and stress conditions. Intl. J. Food Microbiol. 111: 12–20, 2006.*
32. *Yang, L.,* ***Banada PP****, R Chatni, AK Bhunia, M Ladisch, R Bashir. A multifunctional Micro-fluidic System for Dielectrophoretic Concentration Coupling with Immuno-capture of Low Number of Listeria monocytogenes. Lab Chip 6 (7): 896-905, 2006.*
33. *Bayraktar, B.,* ***Banada PP****, E D Hirleman, AK Bhunia, JP Robinson and B Rajwa. Feature extraction from light-scatter patterns of Listeria colonies for identification and classification. J. Biomedical Optics 11 (3) 034006, 2006.*
34. *Bae, E.,* ***Banada PP****, AK Bhunia, E.D. Hirleman., Bio-physical modeling of time-resolved forward scattering by Listeria colonies” Proc. SPIE, 6381, p-07, 2006.*
35. *Rajwa B., Bayraktar, B.,* ***Banada PP****, K Huff, E. Bae, ED Hirleman, AK Bhunia, JP Robinson. Noninvasive forward-scattering system for rapid detection, characterization, and identification of Listeria colonies: image-processing and data analysis. Proc. SPIE 6381, 1-8. 2006.*
36. *Bayraktar, B.,* ***Banada PP****, ED Hirleman, AK Bhunia, JP Robinson, B Rajwa. Bacterial phenotype identification using Zernike moment invariants Proc. SPIE 6080, 155-162, 2006.*
37. *Gray, KM.,* ***Banada PP****, E O'Neal and AK Bhunia Rapid Ped-2E9 cell-based cytotoxicity analysis and genotyping of Bacillus species. J. Clin. Microbiol. 43 (12) 5865-72, 2005.*
38. *Yang, L.,* ***Banada PP****, Y-S Liu, AK Bhunia and R Bashir, Conductivity and pH dual detection of growth profile of healthy and stressed Listeria monocytogenes. Biotechnol. Bioeng. 92 (6): 685-694, 2005.*
39. *Banerjee, P.,* ***Banada PP****, JL Rickus, MT Morgan and AK Bhunia. A portable cell based optical detection device for rapid detection of Listeria and Bacillus toxins. Proc. SPIE. 5996: 602\_1- 602\_7, 2005.*
40. *Wang, H-Y., C Lu,* ***Banada PP****, B Jagadeesan and AK Bhunia. Microfluidic pretreatment of bacterial cells for analysis of intracellular contents. Proc. SPIE. 5996 (03), 2005.*
41. *Padmapriya,* ***Banada P****., A Ramesh and MC Varadaraj. Staphylococcal accessory gene regulator (sar) as a signature gene to detect staphylococci with enterotoxigenic potential. J. Appl. Microbiol. 95, 974-981, 2003.*
42. *Ramesh, A.,* ***Banada P*** *Padmapriya, A Chandrashekar and MC Varadaraj. Application of a convenient DNA extraction method and multiplex PCR for the direct detection of Staphylococcus aureus and Yersinia enterocolitica in milk samples. Mol. Cell. Probes. 16, 307-314, 2002.*
43. *Radhika, B.,* ***Banada P*** *Padmapriya\*, N Keshava, A Chandrashekar and MC Varadaraj. Detection of Bacillus cereus in foods by colony hybridization using PCR generated probe and characterization of isolates for toxins by PCR. Intl. J. Food Microbiol. 74, 131-138, 2002.*
44. Books, Monographs and Chapters
45. ***Banada******PP*** *and AK Bhunia. Chapter 17. Antibodies and immunoassays for detection of bacterial pathogens. In section II. Biorecognition. Principles of Bacterial Detection: Biosensors, Recognition Receptors and Microsystems. Zourob, M and Turner, PF (Eds.) Springer, New York, NY.* ***2008****.*
46. *Wang, H.-Y.,* ***Banada PP,*** *AK Bhunia, C Lu, Rapid electrical lysis of bacterial cells on a microfluidic chip. In Microchip-based Assay Systems, Methods and Applications (P. Floriano ed.).* ***Methods in Molecular Biology*** *(series), Humana Press, Totowa, New Jersey, USA. 385:23-35,* ***2007****.*
47. *Ramesh, A.,* ***BP Padmapriya,*** *S Bharathi and MC Varadaraj. Yersinia enterocolitica: Detection and Treatment.* ***Encyclopedia of Food Sciences and Nutrition****, 2nd ed. Vol 10. (B. Caballero, LC Trugo and PM Finglas., Eds.). Academic Press/ Elsevier, New York, USA pp 6245-6252,* ***2003****.*
48. Patents/ Licenses Held
49. *Label free DNA detection using electrical measurements. Licensed to Biovittesse Inc., San Jose, CA. Sep 17, 2007,* ***Banada P Padmapriya****, Y –S. Liu, R Bashir and AK Bhunia.*
50. *Low conductive media for the growth of Listeria. Licensed by Biovitesse, Inc. San Jose, CA Feb 18, 2005, Banada P Padmapriya, Y –S. Liu, R Bashir and AK Bhunia.*
51. *Primers for the detection of food poisoning bacteria and method thereof. US20040248089 A1. 9 Dec 2004, Banada P Padmapriya, A Ramesh, A Chandrashekar and MC Varadaraj.*
52. *Oligonucleotide primers for phosphotidyl inositol in Bacillus cereus. US6713620, March 30, 2004. Banada P Padmapriya, A Ramesh, A Chandrashekar and MC Varadaraj.*
53. *Novel oligonucleotide primers for phosphotidyl inositol in Bacillus cereus and a method for the detection of Bacillus cereus, Appl. 20030104373 and 20030087291. 2003. Banada P Padmapriya, A Ramesh, A Chandrashekar and MC Varadaraj.*
54. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications
55. *Padmapriya,* ***Banada P****., A Ramesh, N Keshava, A Chandrashekar and MC Varadaraj Molecular cloning of accessory gene regulator (agr) of Staphylococcus epidermidis CFR 1833. Accession No. AF479746 (Gene bank deposition), 2002.*
56. ***Banada PP****. A book Review for Techniques in Microbiology: a student handbook" for Journal of Microbiology & Biology Education. Vol 11, No 2. DOI: 10.1128/jmbe.v11i2.225, 2010.*
57. *Bhunia, AK.,* ***Banada PP****, P Banerjee, A Valadez and ED Hirleman. Light scattering, Fiber Optic and Cell-based sensors for sensitive detection of foodborne pathogens. J. Rapid Meth. Automat. Microbiol. 15:121-145, 2007.*
58. *Hirleman, ED., E Bae, K Huff,* ***Banada PP*** *and AK Bhunia. Light Scattering Endows Bacterial Colonies with Unique Fingerprints. SPIE news room. 10.1117/2.1200701.0557. 1-2 2007.*
59. Abstracts
60. *Banada PP, S Deshpande, R Russo, RV Atta, B Denison, R Kwiatkowski, N Connell, DH Persing and D Alland. Rapid Detection of Hemorrhagic Viruses with a System Capable of Point-of-Care Use. ASM Biothreats: research, Response and Policy, Feb 2017 064D.*
61. *Deshpande S., P. P. Banada, R. Russo, M. Jones, R. Kwiatkowski, N. Connell, D. H. Persing, D. Alland. Rapid Detection of Hemorrhagic Viruses with a System Capable of Point-of-Care Use. ASM Biothreats: research, Response and Policy, Feb 2017 poster 065D.*
62. *Chakravorty S, M Rowneki, L Smith, J Ryan, M Chancellor, S Shenai,* ***PP Banada****, C Denkinger, C Boehme, AM Simmons, D Persing, R Kwiatkowski, M Jones, and D Alland. Xpert MTB/RIF Ultra: A New Near-Patient TB Test with Sensitivity Equal to Culture, 115th ASM General meeting, 2015. 2727.*
63. *Kulkarni M, RR Yu, SC Zaner,* ***PP Banada****, RJ Blakemore, D Amisano, D Kaur, A Sloutsky. Analytical Performance of the Xpert® MTB/RIF Assay, APHL Annual meeting, 2013. P-8.*
64. *Helb, D., M Jones, E Story, C Boehme, E Wallace, K Ho, J Kop, MR Owens, R Rodgers,* ***Banada PP****, H Safi, R Blakemore, NTN Lan, EC Jones-López, M Levi, M Burday, I Ayakaka, RD Mugerwa, B McMillan, E Winn-Deen, L Christel, P Dailey, MD Perkins, DH Persing and D Alland. 2009. Tuberculosis: Biology, Pathology and Therapy (B3): Part of the Keystone Symposia Global Health Series, Supported by the Bill & Melinda Gates Foundation. Sponsored by GlaxoSmithKline. Jan 25 - 30, 2009, Keystone Resort, Keystone, Colorado.*
65. *Liu, Y-S.,* ***Banada PP****, S Bhattacharya, D Akin, AK Bhunia and R Bashir. 2007. Electrical Characterization of DNA Molecules in Fluids using Impedance Measurements. BMES Annual Fall Meeting Sep 26-29. Los Angeles, CA. P2.109.*
66. *Bhattacharya, S., S Salamat,* ***Banada PP****, Y-S Liu, D Morisette, AK Bhunia, D Akin and R Bashir. 2007. Integrated detection of microorganisms in a microfluidic biochip BMES Annual Fall Meeting Sep 26-29. Los Angeles, CA P4.83*
67. *Banada, PP., T Bernas, JP Robinson and AK Bhunia. 2007. Proteomic analysis and identification of cytotoxic factors from Bacillus cereus. P097, 107th American Society for Microbiology (ASM) Annual Meeting. May 21-25, Toronto, Canada pp 206.*
68. *Huff, K.,* ***Banada PP****, B Bayraktar, E Bae, B Rajwa, JP Robinson, ED Hirleman AK Bhunia 2006. Detection and Identification of Foodborne Pathogens in Genus and Species Levels Using a Non-invasive Modified Light Scatterometer-BARDOT. American Society for Microbiology Annual meeting. P-075, Orlando, FL.*
69. *Rajwa, B., M Venkatapathi, K Ragheb,* ***Banada PP****, ED Hirleman, T Lary and JP Robinson 2006. Automated classification and recognition of bacterial particles in flow by multiangle scatter measurement and support vector machine classifier. Poster no.9 14th Annual GLIIFCA Meeting. Sep 29-Oct 1, Pittsburgh, PA*
70. ***Banada, P****., X. Liu, N. Frank, T. Huang, N. Mosier, A. Bhunia, and M. Ladisch, 2006 “Mechanisms of Membrane Fouling in the Rapid Concentration and Recovery of Viable Microorganisms,” BIOT Paper 190, 232nd American Chemical Society Meeting, San Francisco, CA (September 13,).*
71. *Bayraktar, B.,* ***Banada PP****, ED Hirleman, AK Bhunia, JP Robinson and B Rajwa. 2005. Feature Extraction, Identification and Classification of Listeria colonies from light scatter patterns. 14th Annual GLIIFCA Meeting. Sep 30- Oct 2. Milwaukee, WI.*
72. ***Banada, PP.,*** *L Yang, R Bashir, T Bernas, JP Robinson and AK Bhunia. 2005. Performance Evaluation of a Low Conductive Growth Medium for Listeria monocytogenes, by Conventional and Proteomics Approaches. P059, 105th American Society for Microbiology (ASM) Annual Meeting. Jun 5-9, Atlanta, GA.*
73. *Zhao, Z.,* ***BP Padmapriya,*** *AK Bhunia and JL Rickus 2004. Z8.8 The Stability of Free and Immobilized Liposome Systems as Surrogates for Living Cells in Biosensor Materials. Material Research Society (MRS) fall meeting. Nov 29-Dec 3. Boston, MA.*
74. ***Padmapriya, BP****., T Geng, W Chen, X Liu, MR Ladisch and AK Bhunia. 2003. Concentration of Listeria monocytogenes cells directly from meat samples using cell concentration and recovery (CCR) kit and detection by PCR and fiber optic biosensor. Nov 5-7. International conference on food safety, Orlando, FL.*
75. ***Padmapriya, BP****., B Radhika, N Keshava, A Chandrashekar and MC Varadaraj. 2000. Polymerase chain reaction for the detection of food isolates of Staphylococcus aureus using nuclease (nuc) gene specific primers. Dec. 2000. 69th Annual Meeting of Society of Biological Chemists of India, Kolkata, West Bengal, India.*

**PRESENTIONS:**

1. Scientific *(Basic Science)*:
   1. *TB detection in stool: a Sample processing kit development. Presented at SPK 1st annual meeting at The Petersham Hotel, Richmond, UK. April 26, 2018.*
   2. *Detection of Hemorrhagic Viruses with a System Capable of Point-of-Care Use. ASM Biothreats: research, Response and Policy, 2017. 020.*
   3. *Detection of Mycobacterium tuberculosis in blood using GeneXpert® system. 5/10/2011. University of Cape Town, Cape Town, South Africa*
   4. *Xpert MTB/RIF assay. 5/12/11, Groote Schuur Hospital, Cape Town, South Africa*
   5. *Detection of M. tuberculosis by Genexpert in pediatric stool samples. Nov. 2013, KEMRI/CDC, Center for Global Health Research, Kisumu, Kenya*
   6. *Processing of stool samples for detection of TB in blood. Sep 29, 2014, Stellenbosch University, Cape Town, South Africa*
   7. *Processing of stool samples for detection of TB in blood. Oct 02, 2014, WITS Medical School, Johannesburg, South Africa.*