

PARAMITA BASU MUKHERJEE

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OBJECTIVE: Suitable mid-senior level faculty position in Biomedical and Biological Sciences in Medical and Allied Health Sciences Education, with focus on innovative, inclusive and evidence-based teaching, curriculum design, assessment, and program management.

SUMMARY OF QUALIFICATIONS:

- Experienced in coordinating and teaching graduate level biomedical sciences courses for doctoral students in Osteopathic and Podiatric Medicine, Pharmacy and undergraduate level biological sciences courses in Nursing, pre-medical and pre-pharmacy programs in didactic, remote/online and blended formats.
- Experienced in design and teaching Laboratory courses for both in-person and online/remote format.
- Experienced in student-centered learning, supporting the flipped classroom method of healthcare education using active learning, self-directed and small group instructional strategies.
- Experience with instructional technology use in both classroom and online teaching platforms, student response systems and exam management software.
- Experience with Active Learning, Team Based Learning (TBL)/Peer learning exercises and Problem-based learning (PBL) techniques.
- Experienced in curricular design, integration, mapping, and assessment.
- Experienced in leading management and evaluation of Clinical Pharmacy/Allied Health Sciences curriculum.

- Proven track record of scholarship and publication management in cross-disciplinary areas in medical education
- Proven track record of success in procuring external funding for scientific and educational research
- Trained in state and national level program accreditation standards.
- Trained in design and integration of Inter-Professional Education content and assessment.
- Experience in new program/curriculum development during accreditation process.
- Successful record of development of accredited CME credit webinars designed for physicians and other clinical professionals.
- 12 years research experience in both industry and academia.
- Experience to provide scientific direction and apply functional area skills and theoretical knowledge to projects and problems
- Ability to manage and coordinate workflow on cross functional assignments while meeting deadlines
- Ph.D. in Biological sciences (Prokaryotic Signal Transduction/Molecular Biology).
- Major in Human Physiology with Honors and Masters in Bioengineering & Biotechnology.
- Very good interpersonal verbal and written communication skills.
- Good presentation skills (Graphics, posters and PowerPoint® presentations).
- Knowledge of ICH-GCP, GLP and GMP requirements and FDA and TPD regulations.
- Experience with assay design and development in the Biotech/Biomedical industry.

- Success in leveraging pharmaceutical industry network for generating opportunities for funded collaborative research.

Skill Summary

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| • Microbiology & Infectious Diseases | • Research & Development | • Track record of Publications | • 14 years teaching experience |
| • Molecular biology | • Curriculum design & management | • Assay design | • Knowledge of ICH-GCP, GLP & IRB |
| • Diagnostic Industry experience | • Accreditation Standards | • Instructional Technology | • Presentation skills |
| • Antimicrobial resistance | • Curricular assessment | • Active Learning; PBL; TBL | • Online Teaching |

Education:

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| 2008 | Ph.D., Biological Sciences, St. John's University |
| 2003 | M.S., Biological Sciences, St. John's University |
| 2001 | M.Tech, Pharmaceutical Biotechnology & Biochemical Engineering, Jadavpur University, India |
| 1999 | M.S., Biotechnology, Banasthali Vidyapith, India |
| 1997 | B.S. Human Physiology (Honors), Calcutta University, India |

Administrative/Professional Appointments:

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| 2024 – Present | Adjunct Associate Professor, Touro College of Osteopathic Medicine |
| 2022 – Present | Director, Infectious Diseases, Department of Pre-Clinical Science, New York College of Podiatric Medicine, NY |
| 2020 – Present | Consultant Scientist, Swasti Health Catalyst, Bengaluru, India |
| 2021 – Present | Visiting Faculty & International Advisory board member, Amity Institute of Biotechnology (AIB), Amity University Rajasthan, Jaipur, India |
| 2015 - 2022 | Associate Professor, Department of Pharmaceutical and Biomedical Sciences, Touro College of Pharmacy, NY |
| 2014-2020 | Chair of Curriculum and curricular Assessment Committee, Touro College of Pharmacy, NY |
| 2021 – Present | Remote Adjunct Associate Professor, Biological Sciences, American Public University System (APUS) & American Military University (AMU), WV |

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| 2021 – Present | Adjunct Associate Professor, Biology department, Adelphi University, NY |
| 2017- Present | Adjunct Associate Professor, Life Sciences department, New York Institute of Technology, NY |
| 2016 – Present | Consultant Instructional Designer, Genewiz, Inc., NJ |
| 2016- 2017 | Visiting Professor, Basic sciences department, Chamberlain College of Nursing, NJ |
| 2009-2015 | Assistant Professor, Department of Pharmaceutical and Biomedical Sciences, Touro College of Pharmacy, NY |
| 2008-2019 | Visiting Scientist, Department of Biological Sciences, Stress Resistance Laboratory, St. John’s University, NY |
| 2008-2009 | Research Scientist, Antimicrobial Resistance Division, Medical Diagnostics Labs, NJ |
| 2003-2007 | Biology Instructor, St. John’s University, NY |

Committees and Services:

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| [2023 – Present] | Curriculum Committee, NYCPM |
| [2022 – Present] | Assessment Committee, NYCPM |
| [2022 – Present] | Committee on Academic Programs & Policies, NYCPM |
| [2022 – Present] | Faculty Advisor, Research in Podiatric medicine and Surgery (RIPMAS) club, NYCPM |
| [2002-Present] | Course Director of courses in Infectious Diseases, Microbiology, NYCPM |
| [2009-2002] | Physiology, Medical Microbiology & Immunology, Pathophysiology, Biotechnology, Primer in Research Methods, Advanced Research, TCOP |
| [2012-2014] | CSTEP Program Participating Mentor, TCOP |
| [2011-2012] | Coordinator, Seminar Series, TCOP, NYMC |
| [2009-Present] | Assessment Committee, TCOP |
| [2014-2020] | Chair, Curriculum Committee, TCOP |
| [2010-Present] | Curriculum Committee, TCOP |
| [2014-2019] | Interprofessional Education committee, TCOP |
| [2014-Present] | Global Public Health Education committee, TCOP |
| [2010-Present] | Graduate & Professional Faculty Council, TCUS |
| [[2009-present] | Academic Advisor, TCOP |
| [2009-2010] | Harlem Educational Activity Fund Program, TCOP |

[2009-2011] Community Health Fair, Harlem

Society Memberships:

The Northeast Association for Clinical Microbiology and Infectious Diseases (NACMID)

Infectious Disease Society of America (IDSA)

American Association of Colleges of Pharmacy (AACCP)

American Society of Microbiology (ASM)

Association of Pharmacy Professionals (APP)

Awards and Honors:

- 2026 AI Tools for Research Workflow: Enhancing research efficiency with intelligent automation, NY26 Clinical Conference, NYC
- 2025 NYSDOH Mandatory Infection Control Training, NY25 Clinical Conference, NYC
- 2023-Present Invited Presenter for Infectious disease CME credit presentations at NYSPMA meeting
- 2024 Faculty Research Award, New York College of Podiatric Medicine, 2024
- 2023 Faculty Research Award, New York College of Podiatric Medicine, 2023
- 2022 Most Innovative International Researcher Award in Pharmaceutical Biotechnology Category by Association of Pharmacy Professionals, 2022
- 2022 Invited Speaker on Antibiotic Resistance research in the Indo-Caribbean Pharmaceutical Sciences Symposium held in commemoration of International Day of Women in Science jointly by The University of the West Indies, Trinidad & Tobago and Vijaya Institute of Pharmaceutical Sciences for Women, Vijayawada, India, 2022
- 2022 Invited speaker for International Conference on Biotechnological Interventions to Overcome the Challenges of COVID/Post- COVID Era (BIOCoPE-2022) at Amity University Rajasthan, Jaipur, INDIA
- 2021 Invited panelist in BioNext Conference 2021 on Biotech, Pharmacy, Life Sciences organized by Adamas University India, 2021
- 2020 Invited speaker on Post Covid-19 Trends in Food Biotechnology in World Leader Summit, 2020
- 2020 Invited panelist in Webinar on Biotech, Pharmacy, Life Sciences education post Covid-19 organized jointly by Adamas University, India and ABP Media group, 2020
- 2018 Faculty Service Award, Touro College of Pharmacy
- 2015 Faculty Research Award, Touro College of Pharmacy

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| 2011-2012 | Touro OSP Research Grant, Touro Office of Sponsored Programs Faculty Research Grant Competition |
| [2001] | Doctoral Fellowship |
| [2005] | Certificate of Excellence in M.S., St. John's University |
| [1997] | National Level Scholarship, Department of Biotechnology, Government of India |
| [1997] | Rank 34, All India Combined Biotechnology Exam, Biotechnology Consortium, India |
| [1996] | Certificate of Excellence, Debate and Extempore Speech, Presidency College, India |

Grant Awards:

Touro University Open Educational Resources (OER) Faculty Fellowship 2025

Touro University Faculty Innovation Grant Focused on Integrating Artificial Intelligence in Teaching and Learning 2025

Hepatitis B Foundation Hep B United Mini-Grant. Capacity Building for Hepatitis B Services in NYCPM/FCNY for Hepatitis B Education, Awareness, Screening and Prevention in Harlem, NYC. 2025

TCUS Presidential Seed grant. Deer ticks as potential reservoirs of SARS-Cov2. 2024

Skoll Foundation Public Health grant in collaboration with Swasti.org. for Program Development of Wastewater based Surveillance of Covid-19; 2021

Bangalore Urban District Municipal Corporation (BBMP) Community Health grant (India); 2020

NYIT Collaborative Teaching and Learning with Technology (TLT) Grants Program; 2017

AFPE Gateway Scholarship; 2014

TCUS Office of Sponsored Programs, Faculty Research Fund; 2011

American Association of Colleges of Pharmacy, New Pharmacy Faculty Research Awards Program; 2010

Industry Funded studies:

Paratek Pharma Investigator Initiated Research (IIR) Grant. In Vitro Evaluation of the Effect of Omadacycline on Antibiotic-Resistant Diabetic Foot Infection Pathogens Compared to Commonly Prescribed Standard of Care Antibiotics: A Focus on Antibiotic-loaded Bone Cements and Beads (research project involving students); 2023-2024

Bausch Health Ortho Dermatologic Investigator-Initiated Studies grant. Terbinafine Resistance in Onychomycosis Biofilms (research project involving students); 2024

TrueLearn funded Medical Education Research study for data reporting, presentation and publication along with access to video-based Learning resources for PY1 and PY2 podiatry students using Picmonic 2023-2024

Elsevier funded Medical Education Research study for Evaluating Effectiveness of Integrating Audio-visual Learning Resources in Podiatric Medical Courses; 2022-2023

Enogenesis Investigator-Initiated Study grant. In Vitro assessment of antimicrobial and antibiofilm activity of Nitric oxide based cream against common chronic wound pathogens *S. aureus* and *P. aeruginosa*. 2024

SkinIntegra funded Clinical study. Post-Suture Scar Care Evaluation using SkinIntegra cream in Post-surgical Diabetic Patients. 2025

Certifications:

03/2025 Microsoft AI for Educators Certificate

10/2024 NYSED and NYSDOH Mandatory Infection Control Training

11/2024 FDNY C14 Certificate for supervising non-production chemical laboratories. Exp 11/21/2027

05/2021 TCUS Faculty Development Tools Course Zoom and Canvas Online Teaching and Learning Management System Skills Level Bronze, Silver, Gold

05/2024 TCUS Annual Laboratory Safety/Biosafety/Bloodborne Pathogens training

08/2024 CITI Biomedical Human Subjects Research Comprehensive training

08/2026 NYIT Diversity: Inclusion in the Modern Workplace Training

10/2026 NYIT Preventing Harassment and Discrimination Training

11/2025 APUS/AMU Code of Business Conduct and Ethics Training

11/2022 APUS/AMU Insider Trading Training

11/2022 TCUS FERPA for Higher Education Training

01/2023 TCUS Diversity, Equity, and Inclusion (DEI) Compliance Training

02/2023 TCUS/AMU Title IX for Higher Education Training

04/2023 APUS/AMU Program Integrity Rules –Misrepresentation Training

Journal/Board Appointments:

[2022-present] Editor (Pharmacognosy), Springer Nature Vegetos Journal

2022-present] Editorial Board Member, Cureus Journal of Medical Science (Springer Nature)

[2022-present] International Divisional Head, Association of Pharmacy Professionals (APP) Biotechnology Division

[2014-present] Editor, Public Health Page, iProvok.com

- [2012- present] Associate Editor, International Journal of Environmental Cultural, Economic & Social Sustainability
- [2013-present] Editorial Board, Pharmaceutical & Biomedical Sciences: International Journal
- [2012-2013] Reviewer, Touro University California College of Pharmacy Intramural Research Awards Program
- [2010-present] Reviewer, Abstract Screener, AACP
- [2012- present] Reviewer, Journal of International Environmental Sustainability
- [2012- present] Reviewer, Journal of Prosthodontics
- [2015-present] Reviewer, British Biotechnology Journal
- [2015-present] Reviewer, World Applied Science Journal

Presentations:

- Iorio, A., Barlizo, S and **Basu, P.** (2025). In Vitro Assessment of the Antimicrobial Activity of Enogenesis Topical Nitric Oxide Cream Against chronic wound pathogens *Staphylococcus aureus* and *Pseudomonas aeruginosa*. Proceedings of the American Podiatric Medical Association National Meeting 2025, Grapevine, TX.
- Abodeely, A., Kothari, V., Thomas, M., Yun, G., Raffae, A., Chen, T., Ng, J., Rice, S., Vitale, T and **Basu, P.** (2025). Do Changes in pH Affect Microbial Growth in Interdigital Maceration. Proceedings of the American Podiatric Medical Association National Meeting 2025, Grapevine, TX.
- Kello, E., Cohen, M., Nunez, Y., Kesler, R., Zaffuto, K., Yakoup, O., Lopata, S and **Basu, P.** (2025). Antimicrobial Effects of Propolis in Combination with Antibiotic Treatments Against Common Podiatric Wound Pathogens. Proceedings of the American Podiatric Medical Association National Meeting 2025, Grapevine, TX.
- Cambi, M., Syed, T., Wickramasinghe, D and **Basu, P.** (2025). In Vitro Evaluation of the Antimicrobial Effects of Nitric Oxide on *Staphylococcus aureus* and *Pseudomonas aeruginosa* Biofilms Using Chemical NO Donors. Proceedings of the American Podiatric Medical Association National Meeting 2025, Grapevine, TX.
- Sadeh, O., Li, W., Wang, E., Kumar, P and **Basu, P.** (2025). Multifaceted Antibiotic Resistance in Diabetic Foot Infections: A Systematic Review. Proceedings of the American Podiatric Medical Association National Meeting 2025, Grapevine, TX.
- Aziz, A., Chen, T, Martin, S., Wojacek, K., Rice, S., Vitale, T and **Basu, P.** (2025). Do the Changes in pH Affect Microbial Growth in Interdigital Maceration? American College of Foot and Ankle Surgery Annual Scientific Conference, Phoenix. AZ.
- Kaur, A., Gill, P and **Basu, P.** (2024). "Effectiveness of Botulinum Toxin A for Plantar and Lumbar Fasciitis: A Meta-Analysis of Randomized Controlled Trials." Proceedings of the American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2024

- Kello, E; Greenberg, R; Parikh, P; Palladino J; Abgin D; Polansky S; Yaeger, D; Peter Y and **Basu, P.** (2024). “The Effect of Antibiotic Treatment and Gene Expression of Efflux Transporters on the Resistance in Pseudomonas aeruginosa Biofilms. Proceedings of the American Podiatric Medical Association National Meeting 2024, Washington DC.
- Sciotti, N., Reveral, J.R., Richter, C, Yaeger, D and **Basu, P.** (2024). “A Meta-Analysis of Pathogen Abundance Patterns in Diabetic foot infections Globally. Proceedings of the American Podiatric Medical Association National Meeting 2024, Washington DC.
- Riar, A., Seepersaud, R, Iorio, A and **Basu, P.** (2024). “Polymicrobial Biofilms in Terbinafine-Resistant Onychomycosis.” Proceedings of the American Podiatric Medical Association National Meeting 2024, Washington DC. **Winner of first place in student poster competition.**
- Higuchi, K., Cho, A., Hoyt, G.A., Kosinski, M.A. and **Basu, P.** (2023). “Improvement of Therapeutic Guidance Using Geographical Diversity of Organisms Causing Diabetic Foot Infections and Associated Antibiotic Resistance Patterns in the United States.” Proceedings of Northeast Association of Clinical Microbiology and Infectious Diseases 2023 Annual Meeting 2023, Sept. 2023. Lowell, MA.
- Parikh, P; Palladino J; Abgin D; Polansky S; Peter Y and **Basu, P.** (2023). “The Effect of Antibiotic Treatment and Gene Expression of Efflux Transporters on the Resistance in Pseudomonas aeruginosa Biofilms.” Proceedings of Northeast Association of Clinical Microbiology and Infectious Diseases 2023 Annual Meeting 2023, Sept. 2023. Lowell, MA.
- Higuchi, K., Cho, A., Hoyt, G.A., Kosinski, M.A. and **Basu, P.**, “Effect of Geographical Disparities in the Presence of Microbial Species in Diabetic Foot Infection: A Meta-Analysis” Abstract # VP3, Proceedings of Diabetic Foot Conference 2023 Annual Conference of the American Limb Preservation Society 2023, Sept. 2023. Anaheim, CA.
- Kello, E., Greenberg, R., Li, W., Polansky, S., Maldonado, R., Peter, Y. and **Basu, P.** (2023). Effect of Anti-microbial Treatment on Pseudomonas aeruginosa Biofilms. American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2023
- Kobren, A; Memon, M; Tehrani, K; Kim, H; Hoque, F; **Basu, P.** (2022). Characterization of Penicillin Tolerance Mechanisms in Group B Streptococcus. MACUB 2022 Conference
- Imtiaz Z., Chatoo, A., Li, W., Wang, W. and Basu, P. (2022). Biofilm Gene Expression of Pseudomonas aeruginosa Before and After Manipulation of Efflux Transporters MexAB-OprM and MexXY and Exposure to Antibiotics. American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2022
- Hoque, F; Kim, H and Basu, P. (2021). Penicillin Tolerance in Group B Streptococcus. American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2021
- Wang, W; Imtiaz, Z; Chatoo, A and Basu, P. (2021). American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2021
- Hlaing, Y; Patel, D; Kaur, J and Basu, P. Antimicrobial Resistance in Pseudomonas aeruginosa Biofilms. American Society of Health System Pharmacists® (ASHP) Midyear Clinical Meeting 2020.
- Khan, I; Hammouda, A and Basu, P. Characterization of Penicillin Tolerance in Group B Streptococci strains. Academy of Managed Care Pharmacy (AMCP) Annual Meeting, Houston, TX, 2020.

Boadu, M; Sen, P; Saadeh, B and Basu, P. *Pseudomonas aeruginosa* planktonic and biofilm response to current antibiotic treatments. American College of Clinical Pharmacy, Updates in Therapeutics® 2019 Meeting, St. Louis, MO, 2019

Basu, P; Senhaji-Tomza, B; Shah, B; Loewy, Z. Design and development of a translational research elective curriculum for pharmacy students. American Association of Colleges of Pharmacy Annual meeting, Boston, MA, 2018.

Basu, P., Kumar, P., Flores, J., Tsan, J., Seidler, S., Duong, A., Mahmood, M. and Nguyen, T. Study of Penicillin Tolerance Group B Streptococci strains. American Association of Colleges of Pharmacy Annual meeting, Nashville, 2017.

Choy, M., Basu, P. and Senhaji-Tomza, B; Use of Assessment to Track the Effect of Incremental Changes in Curriculum. American Association of Colleges of Pharmacy Annual meeting, Anaheim, CA, 2016.

Basu, P. Academia-Industry Collaborations: A practical Insight. Research Symposium: Advances in Generic Pharma and Biosimilars, New York, NY. 2016.

Rumore, M., Assefa H., Basu, P., Kumar, P. and Patel, Y. Analysis of MedWatch Alerts 2009-2014. American Pharmacists Association Annual meeting and Exposition, San Diego, 2015. Podium presentation.

Senhaji-Tomza, B; Basu, P; Soliman, S. Improving a curriculum through incremental changes based on programmatic assessment results. American Association of Colleges of Pharmacy Annual meeting, Washington DC, 2015.

Basu, P; Fisher, J; Senhaji-Tomza, B; Soliman, S. Evaluate to Learn: Integrating Assessment Data to Improve Outcome of a Didactic Biomedical Science Course. American Association of Colleges of Pharmacy Annual meeting, Washington DC, 2015.

Gandhi, P., Kadiyala, N., Basu, P. “Effect Of Membrane Components CFA And PhoE On Acid Resistance Of Log Phase *Escherichia coli*”. American Association of Colleges of Pharmacy annual meeting, Kissimee, 2012.

Basu, P. Antibiotic Resistance: The Impact on the Environment and Sustainability. 8th International Conference on Environmental, Cultural, Economic, and Social Sustainability. Vancouver, 2012.

Prasad, A., Basu, P., Mordechai, E., Adelson, M. E. and Gyax, S. E. “PBP4 Polymorphisms Generate Penicillin Tolerance in Group B Streptococcus”. American Society of Microbiology, 109th General Meeting, Philadelphia, 2009.

Prasad, A., Basu, P., Gyax, S. E., Adelson, M. E. and Mordechai, E. “Penicillin Tolerance in Group B Streptococcus”. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)/ Infectious Disease Society of America (IDSA). 48th Annual Meeting. Washington D.C., 2008.

Basu, P. and Hirshfield, I. “Role of Heat Shock in Survival of *E. coli* Against Acid Stress”. American Society of Microbiology, 107th General Meeting, Toronto, 2007.

Basu, P and Hirshfield, I. “Role of chaperones in effects of acid on *Escherichia coli* ”. Student Research Day, St. John’s University, 2006.

Basu, P and Hirshfield, I. “Effect of acid on small colony variants of *Escherichia coli*”. Women in Science Research Day, St. John’s University, 2005.

Publications:

- Hoyt, G., Chatterjee, N., Battaglia, F., & Basu, P. (2025). Medical Applications of Graph Convolutional Networks Using Electronic Health Records: A Survey. *cs. LG arXiv*. <https://doi.org/10.48550/arXiv.2502.09781>
- Ray, H., Weis, C., Nwaeze, C., Zhou, V., Basu, P., & Mitra, A. (2025). Development and Control of Biofilms in Diabetic Foot Infections: A Narrative Review. *Acta Microbiologica Hellenica*, 70(1), 9. <https://doi.org/10.3390/amh70010009>
- Hoyt G., Bakshi CS., Basu P. (2025). Integration of an Audiovisual Learning Resource in a Podiatric Medical Infectious Disease Course: Multiple Cohort Pilot Study. *JMIR Med Educ* 2025;11:e55206. doi: 10.2196/55206. PMID: 39935004
- Imtiaz, Z., Chato, A., Wang, W., Li, W., & Basu, P. (2024). Antibiotic-Induced Changes in Efflux Transporter Expression: A Key Factor in *Pseudomonas aeruginosa* Biofilm Resistance. *J of Exp Biol and Agri Sci*, 12(2), 274–283. [https://doi.org/10.18006/2024.12\(2\).274.283](https://doi.org/10.18006/2024.12(2).274.283)
- Cho, A., Higuchi, K., Hoyt, G.A., Kosinski, M.A. and Basu, P. “Effect of Geographical Disparities in the Presence of Microbial Species in Diabetic Foot Infection: A Systematic Review and Meta-Analysis.” Submitted to: *Journal of American Podiatric Medical Association* (under review).
- Hoyt, G.A., Adegboyega, S.N., Constantouris, G. and Basu, P. (2024) “Study of the Impact of Introducing a Multimedia Learning Tool in Podiatric Medical Courses.” *J Foot Ankle Res*, 17(3), 1757-1146.
- Jesmin, R., Cary, J.W., Lebar, M.D., Majumdar, R., Gummadidala, P.M., Dias, T., Chandler, S., Basu, P., Decho, A.W., Keller, N.P. and Chanda, A. (2023). *Vibrio gazogenes*-dependent disruption of aflatoxin biosynthesis in *Aspergillus flavus*: the connection with endosomal uptake and hyphal morphogenesis. *Front. Microbiol.* 14:1208961. doi: 10.3389/fmicb.2023.1208961
- Basu, P., Greenberg, R., Hassoun A., Nestor, R. and Veltri, K. (2023). Updates in Vaccine Development for COVID-19: Evidence on Currently Available Vaccines. *Ann Med Health Sci Res.* 2023;13:S1: 009-032.
- Kello, E., Greenberg, R., Li, W., Polansky, S., Maldonado, R., Peter, Y. and Basu, P. (2023). The Effect of Antibiotic Treatment and Gene Expression of Mex B Efflux Transporters on the Resistance in *Pseudomonas Aeruginosa* Biofilms. *Appl. Microbiol.* 2023, 3, 709–721. <https://doi.org/10.3390/applmicrobiol3030049>
- Kim, H., Fittipaldi, B., Hoque, F., Wang, C., Zefi, O., Li, W., Goldman, Z., Peter, Y., and Basu, P. (2022). Two amino-acid polymorphisms in PBP4 generate penicillin tolerance in group B streptococcus. *Vegetos* (Published online first). <https://doi.org/10.1007/s42535-022-00492-2>
- Basu, P., Das, P., Levin D., Bloemer, J., Opemipo, A. and Veltri, K. (2022). Reconsidering Chloroquine and Hydroxychloroquine in Treatment of COVID-19: Lessons Learnt. *Ann Med Health Sci Res.* 2022;12:S1: 178-200.
- Babayeva, M., Assefa, A., Basu, P., and Loewy, Z. (2022). Autism and Associated Disorders: Cannabis as a Potential Therapy. *Front. Biosci. (Elite Ed)* 2022, 14(1), 001. <https://doi.org/10.31083/j.fbe1401001>
- Basu, P., Choudhury, S., Sridhar, V., Huilgol., P., Roychoudhury, S., Nandi, I., Choudhury, A and Mitra, A. (2022). Early detection of COVID-19 outbreaks by surveillance of SARS-COV-2 RNA from open water environment in resource constrained regions. *Access Microbiology* (2022), 000318, 4(1): 1-11. t al., *Access Microbiology* 2022;4:000318. DOI 10.1099/acmi.0.000318

Basu, P., Patel, D., Sen, P., Hlaing, Y., Boadu, M and Saadeh, B. (2021). Effect of Different Antibiotics on Biofilm and Planktonic Cells of *Pseudomonas aeruginosa*. *J Pure Appl Microbiol.* 2021;15(4):2520-2528.

Mayomi H. Omebeyinje, M., Adeluyi, A., Mitra, C., Chakraborty, P., Gandee, G., Pate, N., Verghese, B., Farrance, C., Hull, M., Basu, P., Lee, K., Adhikari, A., Adivar, B and Anindya Chanda. (2021). Increased prevalence of indoor *Penicillium* and *Aspergillus* species is associated with indoor flooding and coastal proximity: a case study of 28 moldy buildings. *Environ. Sci.: Processes Impacts*, 2021, Sep. DOI <https://doi.org/10.1039/D1EM00202C>

Dahiya, R., Dahiya, S., Kumar, P., Kumar, R. V, Dahiya, S., Kumar, S., Saharan, R., Basu, P., Mitra, A., Sharma, A., Kashaw, S. K., & Patel, J. K. (2021). Structural and biological aspects of natural bridged macrobicyclic peptides from marine resources. *Archiv Der Pharmazie*, n/a(n/a), e2100034. <https://doi.org/https://doi.org/10.1002/ardp.202100034>

Huggins, C., Basu, P., Clayton, K., Senhaji-Tomza, B., Warwick, S and Esquire, A. (2021). The challenges of a joint interprofessional education program between a pharmacy college and an osteopathic medical college: A case study. *Int. Journal of Osteopathic Med.* 41(9), 2021: 66-71 DOI <https://doi.org/10.1016/j.ijosm.2021.05.008>

Vadlapatla R, Kumar P, Mandela P, and Basu P. (2021). Chapter 21: Pain Management - Chronic Back Pain Intrathecal Drug Pump. In *Drug Delivery Devices and Therapeutic Systems*. Ed. Chappel, E. London: Academic Press. Pp 455-491.

Addo-Atuah, J., Senhaji-Tomza, B., Ray, D., Basu, P., Loh, Feng-hua and Owusu-Daaku. (2020). Global Health Research Partnerships in the Context of the Sustainable Development Goals (SDGs). *Research in Social and Administrative Pharmacy*. Volume 16, Issue 11, November 2020, Pages 1614-1618. <https://doi.org/10.1016/j.sapharm.2020.08.015>

Basu, P., Garcia, J. and Kumar, P. (2020). Chapter 55. Emergence of Antimicrobial Resistance in Hospitals. In: Goldman, E., Green L.H. (Eds), *Practical Handbook of Microbiology*. 4th Edition. CRC Press. <https://www.routledge.com/Practical-Handbook-of-Microbiology/Green-Goldman/p/book/9780367567637>

Alizadeh-Shaygh, N., Sarvaiya, D. and Basu, P. (2020). Chapter 56. Emergence of Antimicrobial Resistance in the Community. In: Goldman, E., Green L.H. (Eds), *Practical Handbook of Microbiology*. 4th Edition. CRC Press. <https://www.routledge.com/Practical-Handbook-of-Microbiology/Green-Goldman/p/book/9780367567637>

Basu, P., Boadu, M. and Hirshfield, I. (2020). Chapter 57. Overview of Biofilms and Some Key Methods for Their Study. In: Goldman, E., Green L.H. (Eds), *Practical Handbook of Microbiology*. 4th Edition. CRC Press. <https://www.routledge.com/Practical-Handbook-of-Microbiology/Green-Goldman/p/book/9780367567637>

Kavanagh, R., Mitra, A. and Basu, P. (2020). Chapter 58. Biofilms in Healthcare. In: Goldman, E., Green L.H. (Eds), *Practical Handbook of Microbiology*. 4th Edition. CRC Press. Final Book chapter accepted May 2020. <https://www.routledge.com/Practical-Handbook-of-Microbiology/Green-Goldman/p/book/9780367567637>

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