CURRICULUM VITAE

Alexandra S. Piotrowski-Daspit, Ph.D.

Assistant Professor

University of Michigan
Department of Biomedical Engineering
Department of Internal Medicine – Pulmonary & Critical Care Medicine Division
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Education and Training

Postdoctoral Fellow, Biomedical Engineering, Yale University	2016 – 2023
Ph.D., Chemical and Biological Engineering, Princeton University (with a Graduate Certificate in Bioengineering)	2011 – 2016
M.A., Chemical and Biological Engineering, Princeton University	2011 – 2013
S.B., Chemical-Biological Engineering and Biology, Massachusetts Institute of Te (MIT)	chnology 2007 – 2011

Research Experience

Assistant Professor, BME & Internal Medicine, University of Michigan 2023 – present My laboratory is focused on engineering nano-scaled non-viral vehicles for gene delivery to the lungs and other organs, taking advantage of combinatorial polymer vehicle libraries, high-throughput in vivo screening tools, and three-dimensional cell culture models that recapitulate disease physiology. The goal is to elucidate the structure-function relationships that drive the interactions between nanomedicines and the barriers they encounter when administered in vivo at the organism, tissue, and cell levels. Ultimately, this work will contribute to the rational design of delivery vehicles for specific disease targets and aid in the clinical translation of therapeutics. This technology-driven approach will be applicable to the treatment of many hereditary diseases, with an initial focus on cystic fibrosis (CF).

Postdoctoral Fellow, Biomedical Engineering, Yale University

2016 - 2023

Research Mentors: W. Mark Saltzman, Peter M. Glazer, and Marie E. Egan

Designing novel polymers for nucleic acid delivery and high-throughput in vivo screening tools with a focus on developing efficient vehicles for the delivery of peptide nucleic acid (PNA)-based gene editing agents to treat β -thalassemia and cystic fibrosis (CF).

Graduate Student, Chemical & Biological Engineering, Princeton University 2011 – 2016

Research Mentor: Celeste M. Nelson

Thesis: Physical Forces and Collective Cell Migration in Development and Disease

Engineering 3D cell culture models to investigate the physical mechanisms of collective migration in development and cancer.

Undergraduate Researcher, Chemical-Biological Engineering, MIT

2009 - 2011

Research Mentor: Robert Langer

Developing nano-sized siRNA delivery systems for cancer treatment in collaboration with Alnylam Pharmaceuticals.

Undergraduate Researcher, Chemical & Biomolecular Engineering, UC Berkeley 2010 Research Mentor: Douglas Clark

Genetically engineering the binding domains of cellulase enzyme families using directed evolution to improve catalysis of cellulose hydrolysis and biofuel production efficiency.

Research and Development Intern, Novartis Vaccines & Diagnostics

2010

Research Mentor: Siddhartha Jain

Formulating mRNA delivery complexes for mRNA vaccines and performing stability assays to optimize delivery complex viability.

Undergraduate Researcher, Earth, Atmospheric, & Planetary Sciences, MIT 2008 – 2009

Research Mentor: Frederick Frey

Geochemical and geochronological study of the Ninetyeast Ridge.

Publications

Google Scholar: https://scholar.google.com/citations?user=o2AUNfAAAAAJ&hl=en

h-index: 17; i10-index: 23

- 30. AS Ricciardi, Christina Barone, R Putman, E Quijano, A Gupta, R Nguyen, H Mandl, **AS Piotrowski-Daspit**, F Lopez-Giraldez, V Luks, MR Freedman-Weiss, J Farrelly, S Ahle, PM Glazer, WM Saltzman, DH Stitelman, and ME Egan. Systemic *in utero* gene editing as a treatment for cystic fibrosis. *bioRxiv*, 2024.09.04.611031, 2024.
- 29. A Gupta, C Barone, E Quijano, **AS Piotrowski-Daspit**, JD Perera, A Riccardi, H Jamali, A Turchick, W Zao, WM Saltzman Peter M Glazer, and ME Egan. Next generation triplex-forming PNAs for site-specific genome editing of the F508del CFTR mutation. *Journal of Cystic Fibrosis*, S1569-1993(24)00795-1, in press.
- 28. **AS Piotrowski-Daspit***; LG Bracaglia*; DA Eaton, O Richfield, TC Binns, C Albert, J Gould, RD Mortlock, JS Pober, and WM Saltzman[‡]. Enhancing in vivo cell and tissue targeting by modulation of polymer nanoparticles and macrophage decoys. *Nature Communications*, 15(1):4247, 2024. (*These authors contributed equally to this work, ‡These authors are co-corresponding authors).

- 27. A Suberi, MK Grun, T Mao, B Israelow, M Reschke, J Grundler, L Akhtar, T Lee, K Shin, **AS Piotrowski-Daspit**, RJ Homer, A Iwasaki, HW Suh, and WM Saltzman. Polymer nanoparticles deliver mRNA to the lung for mucosal vaccination. *Science Translational Medicine*, 15(**709**):eabq0603, 2023.
- 26. O Richfield, K Shin, **AS Piotrowski-Daspit**, and WM Saltzman. Rational Nanoparticle Design: Optimization Using Insights from Experiments and Mathematical Models. *Journal of Controlled Release*, 360:772-783, 2023.
- 25. SJ Ullrich, NK Yung, TJ Bauer-Pasani, NL Maassel, ME Guerra, M Freedman-Weiss, SL Ahle, AS Ricciardi, M Sauler, WM Saltzman, **AS Piotrowski-Daspit**, and DH Stitelman. *In utero* delivery of miRNA induces epigenetic alterations and corrects pulmonary pathology in congenital diaphragmatic hernia. *Molecular Therapy Nucleic Acids*, 32:594-602, 2023.
- 24. M Reschke, **AS Piotrowski-Daspit**, JS Pober, and WM Saltzman: Nucleic acid delivery to the vascular endothelium. *Molecular Pharmaceutics*, 19(12):4466-4486, 2022.
- 23. **AS Piotrowski-Daspit***, C Barone, CY Lin, Y Deng, D Wu, AS Ricciardi, R Putman, R Nguyen, A Gupta, R Fan, PM Glazer, WM Saltzman, and ME Egan*: *In vivo* correction of cystic fibrosis mediated by PNA nanoparticles. *Science Advances*, 8(40):eabo0522, 2022. (*These authors are co-corresponding authors).
- 22. K Shin, HW Suh, J Grundler, JU Pothupitiya, ZM Moscato, M Reschke, LG Bracaglia, **AS Piotrowski-Daspit**, and WM Saltzman: Polyglycerol and poly(ethylene glycol) exhibit different effects on pharmacokinetics and antibody generation when grafted to nanoparticle surfaces. *Biomaterials*, 287:121676, 2022.
- 21. E Xu, WM Saltzman*, and **AS Piotrowski-Daspit***. (2021) Escaping the Endosome: Assessing Cellular Trafficking Mechanisms of Non-viral Vehicles. *Journal of Controlled Release*, 335:465-480. (*These authors are co-corresponding authors).
- 20. Y Wang, Y Jiang, D Wei, P Singh, Y Yu, T Lee, L Zhang, H Mandl, **AS Piotrowski-Daspit**, X Chen, F Li, X Li, Y Cheng, A Josowitz, F Yang, Y Zhao, F Wang, Z Zhao, A Huttner, R Bindra, H Xiao, and WM Saltzman. (2021) Nanoparticle-mediated convection-enhanced delivery of a DNA intercalator to gliomas circumvents temozolomide resistance. *Nature Biomedical Engineering*, 5(9): 1048-1058.
- 19. MK Grun, A Suberi, K Shin, T Lee, V Gomerdinger, ZM Moscato, **AS Piotrowski-Daspit***, and WM Saltzman*. (2021) PEGylation of Poly(amine-co-ester) Polyplexes for Tunable Gene Delivery. *Biomaterials*, 272:120780. (*These authors are co-corresponding authors).
- 18. SJ Ullrich, M Freedman-Weiss, S Ahle, HK Mandl, **AS Piotrowski-Daspit**, K Roberts, N Yung, N Maassel, T Bauer-Pisani, AS Ricciardi, ME Egan, PM Glazer, WM Saltzman, and DH Stitelman. (2021) Nanoparticles for Delivery of Agents to Fetal Lungs. *Acta Biomaterialia*, 123:346-353.

- 17. **AS Piotrowski-Daspit**, AC Kauffman, LG Bracaglia, and WM Saltzman. (2020) Polymeric materials for nucleic acid delivery, *Advanced Drug Delivery Reviews*, 156:119-132.
- 16. LG Bracaglia*, **AS Piotrowski-Daspit***, C Lin, Y Wang, GT Tietjen, WM Saltzman. (2020) High-throughput Quantitative Microscopy-based Half-life Measurements of Intravenously Injected Agents, *Proceedings of the National Academy of Sciences of the U.S.A.*, 117(**7**):3502-3508. (***These authors contributed equally to this work**).
- 15. S Oyaghire, E Quijano, **AS Piotrowski-Daspit**, WM Saltzman, PM Glazer. (2019) Poly(lactic-co-glycolic acid) Nanoparticle Delivery of Peptide Nucleic Acids In Vivo. In *Peptide Nucleic Acids: Methods and Protocols* (*Methods in Molecular Biology* series) (ed. P Nielsen), 2105:261-281.
- 14. J Cui*, **AS Piotrowski-Daspit***, J Zhang, M Shao, LG Bracaglia, T Utsumi, YE Seo, J DiRito, E Song, C Wu, A Inada, GT Tietjen, JS Pober, Y Iwakiri, WM Saltzman. (2019) Poly(amine-coester) nanoparticles for effective Nogo-B knockdown in the liver. *Journal of Controlled Release*, 304:259-267. (*These authors contributed equally to this work).
- 13. YE Seo, HW Suh, R Bahal, A Josowitz, J Zhang, E Song, J Cui, S Noorbakhsh, C Jackson, T Bu, **AS Piotrowski-Daspit**, R Bindra, WM Saltzman. (2019) Nanoparticle-mediated intratumoral inhibition of miR-21 for improved survival in glioblastoma. *Biomaterials*, 201:87-98.
- 12. **AS Piotrowski-Daspit**, PM Glazer, WM Saltzman. (2018) Debugging the genetic code: non-viral *in vivo* delivery of therapeutic genome editing technologies. *Current Opinion in Biomedical Engineering*, 7:24-32.
- 11. AC Kauffman*, **AS Piotrowski-Daspit***, KH Nakazawa, Y Jiang, A Datye, WM Saltzman. (2018) Tunability of Biodegradable Poly(amine-co-ester) Polymers for Customized Nucleic Acid Delivery and Other Biomedical Applications. *Biomacromolecules*, 19:3861-3873. (*These authors contributed equally to this work).
- 10. GT Tietjen, SA Hosgood, NC Kirkiles-Smith, J Cui, **AS Piotrowski-Daspit**, D Deep, E Song, J DiRito, R Al-Lamki, JA Bradley, K Saeb-Parsy, JR Bradley, ML Nicholson, WM Saltzman, JS Pober. (2017) Antibody-targeting Can Increase Nanoparticle Delivery to Endothelial Cells During *ex vivo* Normothermic Machine Perfusion of Human Kidney. *Science Translational Medicine*, 9:eaam6764.
- 9. **AS Piotrowski-Daspit**, BA Nerger, AE Wolf, CM Nelson. (2017) Dynamics of tissue-induced alignment of fibrous extracellular matrix. *Biophysical Journal*, 113:702-713. (Featured on the Journal Cover).
- 8. **AS Piotrowski-Daspit**, AK Simi, MF Pang, J Tien, CM Nelson. (2017) A 3D culture model to study how fluid pressure and flow affect the behavior of aggregates of epithelial cells. In *Mammary Gland Development (Methods in Molecular Biology* series) (eds. F Martin & T Stein), 1501:245-257.

- 7. **AS Piotrowski-Daspit**, J Tien, CM Nelson. (2016) Interstitial fluid pressure regulates collective invasion via Snail, vimentin, and E-cadherin in engineered human breast tumors. *Integrative Biology*, 8:319-331.
- 6. **AS Piotrowski-Daspit** and CM Nelson. (2016) Engineering three-dimensional epithelial tissues embedded within extracellular matrix. *JoVE*, 113:e54283.
- 5. N Gjorevski*, **AS Piotrowski***, VD Varner, CM Nelson. (2015) Dynamic tensile forces drive collective cell migration through three-dimensional extracellular matrices. *Scientific Reports*, 5:11458. (*These authors contributed equally to this work).
- 4. AK Simi*, **AS Piotrowski***, CM Nelson. (2014) Mechanotransduction, metastasis and genomic instability. In *Genomic Instability and Cancer Metastasis: Mechanisms, Emerging Themes, and Novel Therapeutic Strategies* (eds. C Maxwell & C Roskelley), 20:139-158. (*These authors contributed equally to this work).
- 3. **AS Piotrowski**, VD Varner, N Gjorevski, CM Nelson. (2014) Three-dimensional traction force microscopy of engineered epithelial tissues. In *Tissue Morphogenesis (Methods in Molecular Biology* series) (ed. CM Nelson) (Springer, New York), 1189:191-207.
- 2. FA Frey, MS Pringle, P Meleney, S Huang, **AS Piotrowski**. (2011) Diverse mantle sources for Ninetyeast Ridge magmatism: Geochemical constraints from basaltic glasses. *Earth and Planetary Science Letters*, 303:215-224.
- 1. OV Levchenko, WW Sager, FA Frey, MS Pringle, KS Krishna, D Gopala Rao, E Gauntlett, E Mervine, YG Marinova, **AS Piotrowski**, et al. (2010) New geological-geophysical data on the structure of the Ninetyeast ridge. *Doklady Earth Sciences*, 434:1208-1213.

Teaching Experience

Instructor, University of Michigan

BME 419/519: Quantitative Physiology

2024 – present

Quantitative Physiology provides learning opportunities for senior undergraduate and graduate students to understand and develop competencies in a quantitative, research oriented, systems approach to physiology. Systems examined include cellular; musculoskeletal; cardiovascular; respiratory; endocrine; gastrointestinal; and renal. Mathematical models and engineering analyses are used to describe system performance where applicable.

BME 500: Biomedical Engineering Seminar Series 2023 – present This is the research seminar series for the Department of Biomedical Engineering, and is a requirement for all graduate students in the program.

Teaching Transcript Certificate, McGraw Center for Teaching and Learning, Princeton University 2016

Certificate in pedagogical training as a demonstration of commitment to effective teaching.

Graduate Student Fellow, McGraw Center for Teaching and Learning, Princeton University 2015 Organized workshops for students on effective teaching and learning. **Assistant in Instruction, Princeton University** MOL 215: Quantitative Principles in Cell and Molecular Biology 2013, 2014 Mentored students in an educational laboratory setting, held office hours, graded lab reports, designed and graded exams. CBE 440: The Physical Basis of Human Disease 2014 Gave a lecture on the tumor microenvironment, led in-class discussions and demonstrations, held office hours, graded problem sets and a final project. MAE 305: Mathematics in Engineering 1 2013 Held office hours for students, graded problem sets and exams. 2012 CBE 245: Introduction to Chemical Engineering Principles Taught precepts and held office hours for students, graded problem sets and exams. **Teaching Assistant, MIT** 18.01: Single-Variable Calculus 2008 - 2011Held recitations and office hours for students, graded problem sets and exams. 18.02: Multi-Variable Calculus 2008 - 2011Held recitations and office hours for students, graded problem sets and exams. Teaching and Laboratory Assistant, MIT 7.02: Experimental Biology and Communication 2010 Mentored students in an educational laboratory setting, held office hours, graded written work. **Mentoring Experience** <u>University of Michigan DYNAMED Lab Members</u> Research Lab Specialist Associate Miriam Stevens, University of Michigan 2024 - present BME Undergraduate Student Varshini Kashyap, University of Michigan 2024 – present BME Undergraduate Student Aditi Ganesan, University of Michigan 2024 – present BME Graduate Student Peyton Panovich, University of Michigan 2023 – present Awards/Honors: NSF Graduate Research Fellowship Program Honorable Mention (2024), UM Rackham Conference Travel Grant (2024), NextProf Pathfinder (2024)

2023 - present

BME Graduate Student Owen Kelly, University of Michigan

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BME Graduate Student Arianna Markey, University of Michigan Awards/Honors: Cystic Fibrosis Foundation Student Traineeship Award (20	2023 – present 024)
BME Rotation Student Maria Jennings, University of Michigan	2024
ChemE Graduate Student Alaa Mwafy, University of Michigan	2023 – 2024
UROP Student Karen Reynoso, University of Michigan Current Status: Pre-Nursing Student, Henry Ford College	2023
University of Michigan Advising Committees	
Pharmaceutical Sciences Graduate Student Shurong Zhou	2024 – present
ChemE Graduate Student Haolong Huang	2024 – present
BME Graduate Student Yinying Yang (Committee Chair)	2024 – present
BME Graduate Student Brooke Smiley	2024 – present
BME Graduate Student John-Paul Pham	2024 – present
BME Graduate Student Sydney Wheeler	2024 – present
External Advising Committees	
Chemical and Biological Engineering Graduate Student Valerie Lallo Villanova University	2024 – present
Yale University (during Postdoctoral Training)	
M.D./Ph.D. Student Anna Lynn, Yale University	2023 – 2025
M.D./Ph.D. Student Alexandra Suberi, Yale University Current Status: Resident, University of Pennsylvania School of Medicine	2021 – 2023
Graduate Student Melanie Reschke, Yale University Current Status: Scientific Developer, Emerald Cloud Lab	2021 – 2022
Postgraduate Associate David Eaton, Yale University Current Status: Resident, Yale School of Medicine	2020 – 2022
Graduate Student Molly Grun, Yale University Current Status: Senior Scientist, Detect	2019 – 2021

Awards/Honors: UM BME Department Chair's Award for Excellence (2023), UM Rackham

Conference Travel Grant (2024)

Exchange Student Carina Graham, UCL/Yale University Current Status: Ph.D. Student, University College London	2020 – 2021
Senior Thesis Student Emily Xu, Yale University Current Status: M.D. Student, University of Pennsylvania	2019 – 2021
Postgraduate Associate Douglas Wu, Yale University Current Status: M.D./Ph.D. Student, Case Western School of Medicine	2019 – 2020
Postgraduate Associate Chun-Yu Lin, Yale University Current Status: Ph.D. Student, University of Toronto	2018 – 2019
Senior Thesis Student Kay Nakazawa, Yale University Current Status: Masters Student, San Francisco Conservatory of Music	2017 – 2018
Princeton University (during Graduate Training)	
Graduate Student Brian Nerger, Princeton University Current Status: Postdoctoral Fellow, Harvard University	2016
Graduate Student Abraham Wolf, Princeton University	2016
Senior Thesis Student Sahana Jayaraman, Princeton University Current Status: M.D./Ph.D. Student, University of Pennsylvania School of M	2015 – 2016 ledicine
Molecular Biophysics REU Student Virginia Lane, Princeton University Current Status: Ph.D. Student, Carnegie Mellon University	2014
Served as Resident Graduate Student, Rockefeller College, Princeton Universi Mentored undergraduate students living in the Rockefeller College and organized activities; developed a peer academic advising program and Science" discussion series.	
Honors and Awards	
Faculty Starter Grant in Drug Delivery, PhRMA Foundation PhRMA Foundation Profile	2024
EDGE in Tech Athena Early Career Award, UC Berkeley/CITRIS/Banatao Insti-	tute 2024
College of Engineering DEI Faculty Grant, University of Michigan	2023 – 2024
Janeway Society Member, Yale School of Medicine	2022
NIH K99/R00 Pathway to Independence Award, NHLBI	2021 – 2026

Cystic Fibrosis Foundation Postdoc-to-Faculty Transition Award	2021 – 2026
Top 10 Junior Investigator Abstract in Basic Science, NACFC 2020 Ar	nnual Conference 2020
Cystic Fibrosis Foundation Postdoctoral Research Fellowship Award	2020 – 2021
ASGCT Meritorious Abstract Travel Award, ASGCT 2019 Annual Mee	ting 2019
NIH NRSA F32 Postdoctoral Fellowship, NHLBI NIH NRSA T32 Postdoctoral Fellowship, DHHS	2018 – 2020 2016 – 2018
Best Presentation in Development and Aging Session, AIChE 2015 Ar	nnual Meeting 2015
Wu Prize for Excellence in Engineering, Princeton University Charlotte Elizabeth Procter Honorific Fellowship, Princeton University	2015 2015 – 2016
Graduate School Teaching Award, Princeton University	2015
William R. Schowalter Travel Fund Award, Princeton University	2013, 2014, 2015, 2016
Peter and Sharon Fiekowsky Teaching Award, MIT	2011
Burchard Scholar in the Humanities, Arts, and Social Sciences, MIT	2010
Peter and Sharon Fiekowsky Award for Community Service, MIT	2009

Active Grants

Cystic Fibrosis Foundation Postdoc-to-Faculty Transition Award: PIOTRO21F5

06/2021 - 05/2026 \$391,741.00

PI: Piotrowski-Daspit

Title: Developing Biodegradable Polymeric Nucleic Acid Delivery Vehicles and High-throughput

Platforms for the Treatment of Cystic Fibrosis

Role: PI

National Institutes of Health/NHLBI K99/R00 Pathway to Independence Award: R00 HL151806

07/2023 - 06/2026 \$746,998.00

PI: Piotrowski-Daspit

Title: Developing Gene Editing Therapeutics, Biodegradable Polymeric Delivery Vehicles, and

High-throughput Platforms for the Treatment of Cystic Fibrosis

Role: PI

Emily's Entourage Research Grant

01/2024 - 12/2025 \$220,000.00

PI: Piotrowski-Daspit

Title: Multi-organ targeted non-viral nucleic acid delivery for CF nonsense mutations

Role: PI

Cystic Fibrosis Foundation PTAC Collaborative Research Grant HASTIN23G0-COLLAB

12/2023 - 11/2026 \$3,254,400.00

PI: Hastings

Title: Discovery and Development of RNA Therapeutics for Cystic Fibrosis

Role: Co-PI

PhRMA Foundation Faculty Starter Grant in Drug Delivery

07/2024 - 06/2025 \$100,000.00

PI: Piotrowski-Daspit

Title: Antibody-Mediated Targeting Strategies to Augment Polymeric Nanoparticle Delivery to

Target Tissues In Vivo

Role: PI

Cystic Fibrosis Foundation Program Development Award PIOTRO24R2

08/2024 - 07/2026 \$500,000

PI: Piotrowski-Daspit

Title: CYFI-UM: Cystic Fibrosis Research Center Program Development at the University of

Michigan Role: Pl

Editorial Services to Scholarly Publications

Section Editor (with Irene de Lázaro), Current Stem Cell Reports 2023 – present

"Stem Cells and Nanotechnologies" for Volume 10 (2024)

Ad hoc Referee for the following journals: since 2022

Journal of Controlled Release Nature Communications

Professional Activities, Service, and Leadership

Abstract reviewer for the following professional meetings: 2024

American Society for Gene and Cell Therapy Annual Meeting

North American Cystic Fibrosis Conference

Biomedical Engineering Society Annual Meeting

Session Chair, Biomedical Engineering Society (BMES) Annual Meeting 2024

Session Chair, North American Cystic Fibrosis Conference (NACFC) 2023, 2024

Session Moderator, Cystic Fibrosis Foundation (CFF) Research Conference 2023, 2024

Lead Organizer, Cystic Fibrosis Research Center at the University of Michigan 2023 – present

University of Michigan

Cystic Fibrosis Foundation Review Committee Member Research and Research Training (RRT)/Path to a Cure (PTAC) Review Co	2024 – present mmittee
BME 2025 Strategic Planning Working Group Lead: People	2024 – 2025
Ad hoc referee for UM Michigan Materials Research Institute (MMRI)	2024 – 2025
Ad hoc referee for the Cystic Fibrosis Foundation CFF Pioneer Award Review Panel	2023
Ad hoc referee for National Institutes of Health (NIH) NIGMS K99/R00 Special Emphasis Panel	2023
UM Department of Biomedical Engineering Seminar Series Organizer	2023 – present
UM Department of Biomedical Engineering Biochemical Curricular Committee	2023 – present
Co-Founder of Xanadu Bio, Inc.	2021 – present
Consultant for TruCode Gene Repair, Inc.	2017 – 2018
Career Services Graduate Student Advisory Board Member Princeton University	2015 – 2016
Chemical and Biological Engineering Graduate Class Representative Princeton University	2013 – 2016
Lead Organizer, Chemical & Biological Engineering Graduate Student Sympos Princeton University	ium 2014
Lead Organizer, Workshop on the <i>Mechanobiology of Somitogenesis</i> Lorentz International Center for Workshops in the Sciences, The Netherland	2014 ds
Vice President, MIT AIChE Student Chapter MIT	2010 – 2011

Professional Societies

American Institute of Chemical Engineers (AIChE)

American Society of Gene and Cell Therapy (ASGCT)

Biomedical Engineering Society (BMES)

Somatic Cell Genome Editing Consortium (SCGE)

Invited Talks

- 27. **AS Piotrowski-Daspit.** (2025) Overcoming Barriers in the Lung and GI Tract: Advances in Gene Delivery, Stem Cells, and Therapeutic Targeting. *American Society for Gene and Cell Therapy (ASGCT) 2025 Annual Meeting* (May).
- 26. **AS Piotrowski-Daspit** and AH Morris. (2024). Building Inclusive Communities: DEI Strategies in Engineering. *University of Michigan College of Engineering DEI Lecture Series*, University of Michigan (October).
- 25. **AS Piotrowski-Daspit**. (2024). Polymeric vehicles for nucleic acid delivery. *Pharmaceutical Sciences Department Seminar*, University of Michigan (September).
- 24. **AS Piotrowski-Daspit**. (2024). Rational drug delivery design to overcome physiological barriers. *Pharmacology and Physiology Department Seminar*, University of Rochester Medical Center (June).
- 23. **AS Piotrowski-Daspit**. (2024) RNA: the delivery perspective. *Innovation Seminar Series*, University of Michigan Center for RNA Biomedicine *RNA* (June).
- 22. **AS Piotrowski-Daspit.** (2023) Polymeric Nanoparticle Strategies to Overcome Barriers for Systemic CF Gene Therapy. *North American Cystic Fibrosis Conference (NACFC)* (November).
- 21. **AS Piotrowski-Daspit.** (2023) Designing polymeric nanoparticles for nucleic acid delivery. *3M Industry Seminar* (September).
- 20. **AS Piotrowski-Daspit.** (2023) Polymeric nanoparticle strategies to restore CFTR function. *American Society for Gene and Cell Therapy (ASGCT) 2023 Annual Meeting* (May).
- 19. **AS Piotrowski-Daspit**. (2023) Nanoparticle-mediated therapeutic nucleic acid delivery for in vivo multi-organ CF treatment. *Pediatric Pulmonary Conference*, University of Michigan Medical School (May).
- 18. **AS Piotrowski-Daspit.** (2023) Delivery Vehicles for CF genetic therapies. *Ohio Valley CF Consortium Conference* (May).
- 17. **AS Piotrowski-Daspit**, LG Bracaglia, ME Egan, PM Glazer, WM Saltzman. (2022) Optimizing polymeric vehicles for multi-organ *in vivo* delivery. *Cystic Fibrosis Foundation Research Conference* (June).
- 16. **AS Piotrowski-Daspit**, LG Bracaglia, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *Pulmonary Research Conference*, Indiana University School of Medicine (June).

- 15. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *Pulmonary and Critical Care Division Research Conference*, University of Michigan Medical School (May).
- 14. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *BME Department Seminar*, University of Michigan (March).
- 13. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *Bioengineering Department Seminar*, University of Illinois at Urbana-Champaign (February).
- 12. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *BEAM Department Seminar*, Virginia Tech (March).
- 11. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *MSE Department Seminar*, University of Illinois at Urbana-Champaign (February).
- 10. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *Pediatrics Department Seminar*, Yale School of Medicine (February).
- 9. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *BME Department Seminar*, Rutgers University (February).
- 8. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2022) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *BME Department Seminar*, Wake Forest University (February).
- 7. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2021) Tunable polymeric vehicles for therapeutic delivery to the lung. *NIH NHLBI Workshop: How Can We Use Bioengineering Approaches to (Re)Build a Lung* (December).
- 6. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2021) Designing polymeric nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *CBE Department Seminar*, Drexel University (December).
- 5. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2021) Designing nanoparticles for systemic delivery *in vivo* to enhance therapeutic effects in key tissues. *BME Department Seminar*, Boston University (February).

- 4. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2020) Nanoparticle-mediated Therapeutic Nucleic Acid Delivery to the Lungs. *BME Department Seminar*, Yale University (October).
- 3. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2020) Systemic Delivery of PNA Nanoparticles to Correct F508del CFTR *In Vivo. Oligonucleotide Therapeutics Society Annual Meeting* (September).
- 2. **AS Piotrowski-Daspit**, ME Egan, PM Glazer, WM Saltzman. (2018) Polymeric Vehicles for Nucleic Acid Delivery: Peptide Nucleic Acid-mediated Genome Editing. *Cystic Fibrosis Foundation Research Conference* (June).
- 1. **AS Piotrowski**, J Tien, CM Nelson. (2015) Interstitial fluid pressure regulates collective invasion via mesenchymal and epithelial genes in an engineered human breast tumor model. *BioEngineering Colloquium*, Princeton University (May).

Abstracts at Scholarly Meetings

- 43. **PM Panovich**, **AS Piotrowski-Daspit**. (2024) Engineered Decoy Pretreatment Prevents Phagocytic Clearance of Therapeutic Nanoparticles. *Biomedical Engineering Society (BMES) Annual Meeting)*: Baltimore, MD.
- 42. **OM Kelly**, **AS Piotrowski-Daspit**. (2024) Antibody/nanobody-nanoparticle conjugates for specific cell-type targeting of nucleic acid therapeutics. *Biomedical Engineering Society (BMES) Annual Meeting*): Baltimore, MD.
- 41. **AS Piotrowski-Daspit**, AY Lynn, DA Eaton, LG Bracaglia, R Mortlock, **AI Markey**, PM Glazer, AF Tarantal, WM Saltzman. (2024) In Utero Gene Delivery in Fetal Rhesus Monkeys Mediated by Polymeric Nanoparticles. *Biomedical Engineering Society (BMES) Annual Meeting*): Baltimore, MD.
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