Lisa R. Volpatti

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EDUCATION

2019	Ph.D., Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA
2016	M.S., Chemical Engineering Practice, Massachusetts Institute of Technology, Cambridge, MA
2014	M.Phil., Chemistry, University of Cambridge, Cambridge, UK
2013	B.S., Chemical Engineering, University of Pittsburgh, Pittsburgh, PA

RESEARCH

2020-	T32 Postdoctoral Fellow, Advisor: Jeffrey A. Hubbell, Pritzker School of Molecular Engineering, University of Chicago
2015 - 2020	NSF Graduate Research Fellow; Graduate Research Assistant Advisor: Daniel G. Anderson, Department of Chemical Engineering, MIT
2013 - 2014	Whitaker International Fellow Advisor: Tuomas P. J. Knowles, Department of Chemistry, University of Cambridge
2011 - 2013	Undergraduate Research Assistant Advisor: Yadong Wang, Department of Bioengineering, University of Pittsburgh
2012	Amgen Scholar Advisor: Suzie Pun, Department of Bioengineering, University of Washington

TEACHING

2019	Teaching Development Fellow, Teaching + Learning Lab, MIT
2019	Teaching Assistant, Careers and ChemE at MIT, MIT
2018, 2019	Invited Guest Lecturer, Integrated Chemical Engineering Topics, MIT
2017 - 2019	Workshop Developer and Facilitator, Communication Lab, MIT
2018	Lecturer, Undergraduate Science Writing Workshop Series, Langer Lab, MIT
2017	Invited Guest Lecturer, Polymer Science Laboratory, MIT
2016	Teaching Assistant, Polymer Science Laboratory, MIT

SERVICE

2019 -	Manuscript Peer Review: *Advanced Drug Delivery Reviews* (1), *Trends in Biotechnology* (2), *ACS Central Science* (2), *ACS Omega* (2)
2020 -	Postdoc Representative, Immuno Delivery Focus Group, Controlled Release Society
2020 -	Annual Meeting Co-Chair, Women in Chemical Engineering, AIChE
2020 -	Member, Alumni Board, University of Pittsburgh Honors College
2020, 2021	Co-Chair, Biomaterials for Drug Delivery, American Institute of Chemical Engineers
2018 - 2019	Co-Founder and President, Graduate Women in Chemical Engineering, MIT
2009 - 2013	Society of Women Engineers (SWE), University of Pittsburgh Offices held: President, Vice President, Service Chair, Social Chair

SELECTED PUBLICATIONS

1. **Volpatti LR**, Burns DM, Basu A, Langer R, Anderson DG. Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. *J. Control. Release.* 2021, 338, 71-79.
2. **Volpatti LR**, Wallace RP, Cao S, Raczy MM, Wang R, et al. Polymersomes Decorated with the SARS-CoV-2 Spike Protein Receptor-Binding Domain Elicit Robust Humoral and Cellular Immunity. *ACS Cent. Sci.* 2021.
3. **Volpatti LR**, Facklam AL, Cortinas AB, Lu Y-C, Matranga MA, MacIsaac C. Hill M, Langer R, Anderson DG. Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. *Biomaterials.* 2021, 267, 120458.
4. **Volpatti LR**, Rodby K, Singh GK, Kaushal B, Adams KM, Hammond PT, Rankin S. Promoting an Inclusive Lab Culture through Custom In-Person Trainings within an Engineering Department. *2020 ASEE Virtual Annual Conference Proceedings*, DOI: 10.18260/1-2--35102.
5. **Volpatti LR**, Matranga MA, Cortinas AB, Daniel KB, Langer R, Anderson DG. Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. *ACS Nano*. 2020, 14, 488-497.
6. **Volpatti LR**, Shimanovich U, Ruggeri FS, Bolisetty S, Müller T, Mason TO, Michaels TCT, Mezzenga R, Dietler G, Knowles TPJ. Micro- and nanoscale hierarchical structure of core-shell protein microgels. *J. Mater. Chem. B.* 2016, 4, 7989-7999.