CURRICULUM VITAE Ashutosh Chilkoti, Ph.D.

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Education

Postdoctoral	Research Associate, Center for Bioengineering, University of Washington, Aug. 1991- Dec. 1995
Ph.D.	Chemical Engineering, University of Washington, Seattle, June 1991
B.Tech.	Chemical Engineering, May 1985, Indian Institute of Technology, Delhi, India

Employment

2023-present	Senior Associate Dean, Pratt School of Engineering, Duke University
2006-present	Professor, Department of Biomedical Engineering, Duke University
2014-2022	Chair, Department of Biomedical Engineering, Duke University
2002-2006	Associate Professor, Department of Biomedical Engineering, Duke University
1996-2002	Assistant Professor, Department of Biomedical Engineering, Duke University

Awards and Appointments

2022 Outstanding Postdoc Mentor award, Duke university
Fellow, Biomaterials Science and Engineering, International Union of Societies for Biomaterials Science and Engineering
Fellow, American Association for the Advancement of Science
Wells Moulton Distinguished Alumnus Award, Department of Chemical Engineering, University of Washington, Seattle
Chandra P. Sharma award, Society for Biomaterials and Artificial Organs (India)
Diamond alumni award: Distinguished Achievement in Academia, College of Engineering, University of Washington, Seattle
Editorial Advisory Board, ChemMedChem
Editorial Advisory Board, Advanced Healthcare Materials
Distinguished alumni award, Indian Institute of Technology Delhi, India
Fellow, National Academy of Inventors
Chair, Department of Biomedical Engineering, Duke University

2014-	Editorial Advisory Board, RSC Biomaterials Science
2013	Pritzker Distinguished Lecture Award, Biomedical Engineering Society
2013	Fellow, Biomedical Engineering Society
2013	Fellow, Controlled Release Society
2013-	Editorial Advisory Board, Biomacromolecules
2012	Co-Chair, Gordon Research Conference on Bioinspired Materials
2011	Clemson Award for "Contributions to the Literature", Society for Biomaterials
2010	Humboldt Senior Researcher Award, Alexander Von Humboldt Foundation, Germany
2010-2016	Editorial Board, Wiley Interdisciplinary Reviews (WIREs): Nanomedicine and Nanobiotechnology
2010-2011	Associate Editor, Nanomedicine: Nanotechnology, Biology and Medicine
2010-	Editorial Board Member, Biointerphases
2008-2011	Member of Council, and Chair Publications committee, Society for Biomaterials
2008-2016	Theo Pilkington Chair, Duke University
2007-2015	Director, Center for Biologically Inspired Materials and Material Systems, Duke University
2007	Fellow, American Institute for Medical and Biological Engineering (AIMBE)
2007-present	Editorial Board, Journal of Biomedical Materials Research: Part A
2006-2013	Director of Graduate Studies, Department of Biomedical Engineering, Duke University
2006-2011	Scientific Advisory Board, CCMX: Swiss National Competence Center for Materials Science
2006	Co-Chair, Gordon Research Conference on Biointerface Science
2006-2010	Associate Editor, Biointerphases
2005-2012	Scientific Advisory Board, Asemblon, Seattle, WA, USA
2005	Stansell Family Distinguished Research Award, Pratt School of Engineering, Duke University
2004-2007	Scientific Advisory Board, Plasso LLC, Sheffield, UK
2003-present	Steering Committee, Center for Biomolecular and Tissue Engineering, Duke University
2003-present	Member, Editorial Board, Protein Engineering, Design and Selection
2003	Distinguished Research Award, Pratt School of Engineering, Duke University
2003-present	Member, Duke Cancer Institute, Duke University Medical Center
2002-2007	Associate Director, Center for Biologically Inspired Materials and Material Systems, Duke University
2002-2007	Editorial Board, Biomolecular Engineering
2002	3M Nontenured Faculty Award
1998	NSF CAREER Award
1989	Student Paper Prize, American Vacuum Society, Pacific Northwest Chapter Symposium
1978-1985	National Merit Scholarship, National Council of Educational Research and Training, India

Reviewer for Journals

ACS Nano, Advanced Materials, Advanced Functional Materials, Analytical Chemistry, Analytical and Bioanalytical Chemistry, Analytical Biochemistry, Angewandte Chemie, Applied Microbiology, Biointerphases, Biomacromolecules, Biomaterials, Biotechnology and Bioengineering, Chemistry and Materials, Journal of the American Chemical Society, Journal of Biomaterials Science, Polymer Edition, Journal of Biomedical Materials Research, Journal of Physical Chemistry, Langmuir, Macromolecules, Nano Letters, Nature, Nature Biomedical Engineering, Nature Chemistry, Nature Materials, Nature Methods, Nature Biotechnology, Nature Nanotechnology, Protein Engineering: Design and Selection, Science, Science Advances, Small.

Membership on Review Panels

NIH ZRG1 CB-V (55) and ZRG1 CB-G (07) study sections, 2021; NIH ZRG1 BST-U 50 study section, 2020; ZRG1 IMST-H 55 "Innovative Research in Cancer Nanotechnology (IRCN)" special emphasis panel (SEP), 2020; NCI Immunoengineering U54 special emphasis panel, 2019; Editorial Board member, NIH Innovator award, 2019; Chair ESI NIGMS MIRA study section, 2019; NIH EBIT study section, ad hoc reviewer, June 2015; Editorial Board member, NIH Innovator award, 2013; Chair, Evaluation panel of Health and Environment department, Austrian Institute of Technology, Vienna, May 2012; Reviewer, NIH Transformative R01 proposals, 2012; NSF, BMAT panel member, 2012; NIH: Chair, Special Emphasis Panel for R13 review, Feb. 2012; Reviewer, NIH Innovator award, 2012; NIH: Chair, Nanotechnology study section, 2006-2010; NIH: BCMB L50 Nanotechnology study section, ad hoc member 2005; NIH: Biomaterials and Biointerfaces (BMBI) study section, ad hoc member 2003; NIH: ZRG 1 SSS-2 Proteomics, Protein Expression, and Protein Therapeutics ad hoc member 2002; NASA: Biomaterials program, 2001; Texas Advanced Technology Program, 2000.

Publications

- 1. J Min, X Guo, IC Jenkins, I Arora, S Deshpande, SY Kim, NC Tang, SK Nair, and A Chilkoti, A modular PD-L1 antagonist for cancer therapy that is superior to PD-L1 antibodies in mice, *in preparation*.
- 2. Z Quinn, DS Kinnamon, and A Chilkoti, Interface-mediated diagnostics: Lessons from two pandemics, *in preparation*.
- 3. Y Dai, Z Zhou, K Kim, N Rivera, J Mohammed, H Hsu-Kim, A Chilkoti, and L You, Biomolecular condensates modulate cellular physiology by regulation of electrochemical equilibria, *in preparation*.
- 4. FM Albarghouthi, D Semeniak, I Khanani, JL Doherty, BN Smith, M Salfity, Q MacFarlane, SG Noyce, NX Williams, DY Joh, JB Andrews, **A Chilkoti**, and AD Franklin, Detection of biomarkers with carbon nanotube-based BioFETs, *submitted*.
- 5. N Tang, J Su, Y Shmidov, G Kelly, S Deshpande, P Sirohi, N Peterson, and A Chilkoti, Synthetic intrinsically disordered protein fusion tags that enhance protein solubility, *submitted*.
- 6. V Sethi, D Cohen, S Meir, M Ney, L Adler-Abramovich, A Chilkoti, and R Beck, Modulating hierarchical self-assembly in thermoresponsive intrinsically disordered proteins through high-temperature incubation time, *submitted*.
- 7. S Deshpande, Y Yang, S Zauscher, and A Chilkoti, Enzymatic synthesis of aptamer-targeted polynucleotide drug nanoparticles with high drug loading for cancer therapy, *submitted*.

- 8. Z Li, Q Shen, Y Dai, AP Anderson, M Iburg, R Lin, B Zimmer, MD Meyer, A Chilkoti, and GJ Lu, Phase-separable GvpU governs the selective clustering of gas vesicles, *submitted*.
- 9. SA Eghtesadi, DM Shapiro, S Deshpande, J Min, D Fiflis, D Rohm, Y Dai, A Asokan, C Gersbach, and **A Chilkoti**, Synthetic ribonucleoprotein granules regulate translation of a target mRNA in living cells, *Nature Chemistry*, in revision.
- 10. H Vahabi, J Liu, Y Dai, DY Joh, R Britton, J Heggestad, DKinnamon, S Rajput, and A Chilkoti, A gravity-driven droplet fluidic point-of-care test, *Device*, 1: 100009 (2023) https://doi.org/10.1016/j.device.2023.100009.
- 11. KM Lazar, S Shetty, A Chilkoti, and J Collier, Immune-active polymeric materials for the treatment of inflammatory autoimmune diseases, *Current Opinion in Colloid and Interface Science*, 67: 101726 (2023). https://doi.org/10.1016/j.cocis.2023.101726.
- 12. DT Burrow, JT Heggestad, DS Kinnamon, and A Chilkoti, Engineering innovative interfaces for point-of-care diagnostics, *Current Opinion in Colloid and Interface Science*, **66**: 101718 (2023). https://doi.org/10.1016/j.cocis.2023.101718.
- DS Kinnamon, JT Heggestad, T Nguyen, RJ Britton, J Liu, AM Hucknall, CM Fontes, K-Y Yuen, T Le, and A Chilkoti, Environmentally resilient microfluidic point-of-care immunoassay enables rapid diagnosis of Talaromycosis, ACS Sensors, 8: 2228–2236 (2023). https://doi.org/10.1021/ acssensors.3c00209.
- 14. Y Dai , L You, and A Chilkoti, Engineering synthetic biomolecular condensates, *Nature Reviews Bioengineering*, 1: 466–480 (2023). https://doi.org/10.1038/s44222-023-00052-6.
- 15. Y Dai, CF Chamberlayne, RN Zare, L You, and A Chilkoti, Biomolecular condensates enable spontaneous redox reactions in cells, *Chem*, **9**: 1594–1609 (2023).
- 16. JT Heggestad, RJ Britton, DS Kinnamon, J Liu, D Joh, C Fontes, A Hucknall, T Burke, J Anderson, R Parks, B Haynes, G Sempowski, T Denny, C Woods and A Chilkoti, COVID-19 diagnosis and SARS-CoV-2 strain identification by a rapid, multiplexed, point-of-care antibody microarray, *Analytical Chemistry*, 95: 5610–5617 (2023).
- Y Dai, D Lee, X Zeng, K Kim, H Son, X Guo, D Shapiro, M Ney, R Pappu, A Chilkoti, and L You, Programmable synthetic biomolecular condensates for cellular control, *Nature Chemical Biology* 19: 518–528 (2023).
- 18. I Ozer, A Slezak, N Zakharov, X Li, JH Collier, and **A Chilkoti**, Injectable non-immunogenic PEGlike conjugate that forms a subcutaneous depot and enables sustained delivery of a peptide drug, *Biomaterials*, **294**: 121985 (2023).
- 19. LB Olson, NI Hunter, RE Rempela, H Yua, DM Spencer, CZ Sullenger, WS Greene, AK Varanko, SA Eghtesadi, A Chilkoti, DS Pisetsky, JI Everitt, and BA Sullenger, Mixed-surface polyamidoamine polymer variants retain nucleic acid-scavenger ability with reduced toxicity, *iScience*, **25**: 105542 (2022).
- J Haley, JB Jones, S Petraki, M Callander, S Shrestha, E Springfield, L Adamson, A Chilkoti, MJ Dzuricky, and KM Luginbuhl, *Cell & Gene Therapy Insights* 8: 1287–1300 (2022) DOI: 10.18609/cgti.2022.190
- CA Roden, Y Dai, I Seim, M Lee, R Sealfon, G Mclaughlin, M Boerneke, C Iserman, J Ekena, K Weeks, OG Troyanskaya, L You, A Chilkoti, and AS Gladfelter, Double stranded RNA drives SARS-CoV-2 nucleocapsid protein to undergo LLPS and specifies LCST behavior, *Nucleic Acids Research*, 50: 8168-8192 (2022).

- 22. JL Schaal, J Bhattacharyya, J Brownstein, KC Strickland, S Banskota, X Li, W Liu, DG Kirsch, MR Zalutsky, and **A Chilkoti**, Brachytherapy via a depot of biopolymer-bound ¹³¹I synergizes with nanoparticle paclitaxel in therapy-resistant pancreatic tumours, *Nature Biomedical Engineering* **6**: 1148–1166 (2022).
- 23. D Semeniak, DF Cruz, A Chilkoti, and MH Mikkelsen, Plasmonic fluorescence enhancement in diagnostics for clinical tests at point-of-care: A review of recent technologies, Plasmonic Fluorescence Enhancement in Diagnostics for Clinical Tests at Point-of-Care: A Review of Recent Technologies, *Advanced Materials* (2022), 2107986.
- KH Lin, JC Rutter, A Xie, ST Killarney, C Vaganay, C Benaksas, F Ling, G Sodaro, P-A Meslin, 24. Christopher F Bassil, Nina Fenouille, Jacob Hoj, Rachel Washart, Hazel X Ang, Christian Cerda-Smith, Paul Chaintreuil, Arnaud Jacquel, Patrick Auberger, Antoine Forget, Raphael Itzykson, Min Lu, Jiaxing Lin, Mariaelena Pierobon, Zhecheng Sheng, Xinghai Li, Ashutosh Chilkoti, Kouros Owzar, David A Rizzieri, Timothy S Pardee, Lina Benajiba, Emanuel Petricoin, Alexandre Puissant, Kris C Wood, P2RY2-AKT activation is a therapeutically actionable consequence of XPO1 inhibition myeloid leukemia, Nature Cancer. 837-851 in acute 3: (2022). https://doi.org/10.1038/s43018-022-00394-x
- 25. S Saha, S Banskota, J Liu, N Zakharov, M Dzuricky, X Li, P Fan, S Deshpande, I Spasojevic, K Sharma, MJ Borgnia, J Schaal, A Raman, S Kim J Bhattacharyya, and A Chilkoti, Genetically engineered nanoparticles of asymmetric triblock polypeptide with a platinum(IV) cargo outperforms a platinum(II) analog and free drug in a murine cancer model, *Nano Letters* **22**: 5898-5908 (2022). https://doi.org/10.1021/acs.nanolett.2c01850
- 26. I Ozer, G Kelly, R Gu, X Li, N Zakharov, JH Collier, MS Hershfield, AM Hucknall, and A Chilkoti, PEG-like brush polymer conjugate of a protein drug has enhanced pharmacokinetics than a PEG conjugate and does not induce an anti-polymer immune response, *Advanced Science*, 2103672 (2022) doi: 10.1002/advs.202103672.
- 27. I Ozer, GA Pitoc, JM Layzer, A Moreno, LB Olson, KD Layzer, A Hucknall, BA Sullenger, and A Chilkoti, PEG-like brush polymer conjugate of an RNA aptamer that shows reversible anticoagulant activity in vivo and minimal immune response, *Advanced Materials*, (2022) doi: 10.1002/adma.202107852.
- 28. G Kelly, JJ Milligan, EM Mastria, SR Zelenetz, J Dobbins, LY Cai, X Li, SK Nair, and A Chilkoti, Intratumoral delivery of brachytherapy and immunotherapy by an injectable thermally sensitive polypeptide depot, *Journal of Controlled Release*, **343**: 267-276 (2022).
- 29. DS Kinnamon, JT Heggestad, J Liu, and A Chilkoti, Technologies for frugal and sensitive point-ofcare immunoassays, *Annu. Rev. Anal. Chem.* **15:** X–X (2022). https://doi.org/10.1146/annurevanchem-061020-123817.
- 30. JT Heggestad, DS Kinnamon, J Liu, DY Joh, CM Fontes, Q Wei, A Ozcan, AM Hucknall, and A Chilkoti, Smartphone enabled point-of-care detection of serum biomarkers. In: Ossandon M.R., Baker H., Rasooly A. (eds) Biomedical Engineering Technologies. Methods in Molecular Biology, vol 2393. Humana, New York, NY(2022). https://doi.org/10.1007/978-1-0716-1803-5_19
- 31. JJ Milligan, S Saha, IC Jenkins, and A Chilkoti, Genetically encoded Elastin-like polymer nanoparticles for drug delivery, *Current Opinion in Biotechnology*, 14: 146-153 (2021).
- 32. IC Jenkins, JJ Milligan, and A Chilkoti, Genetically encoded Elastin-like polypeptides for drug delivery, *Advanced Healthcare Materials*, **10**: 2192-2640 (2021).

- 33. JT Heggestad, RJ Britton, DS Kinnamon, SA Wall, DY Joh, AM Hucknall, LB Olson, JG Anderson, A Mazur, CR Wolfe, TH Oguin III, BA Sullenger, TW Burke, BD Kraft, GD Sempowski, CW Woods, and **A Chilkoti**, Rapid test to assess the escape of SARS-CoV-2 variants of concern, *Science Advances*, **7**: eabl7682 (2021).
- 34. P Weber, M Dzuricky, J Min, I Jenkins, and **A Chilkoti**, Concentration independent multivalent targeting of cancer cells by genetically encoded core-crosslinked Elastin/Resilin-like polypeptide micelles, *Biomacromolecules*, Publication Date: September 3, 2021, https://doi.org/10.1021/acs. biomac.1c00897 (2021).
- 35. L Navarro, JJ Ryan, M Dzuricky, M Gradzielski, A Chilkoti, and S Zauscher, Microphase separation of Resilin-like and Elastin-like diblock copolypeptides in concentrated solutions, *Biomacromolecules*, **22**: 3827–3838 (2021).
- 36. DY Joh, JT Heggestad, S Zhang, GR Anderson, J Bhattacharyya, SE Wardell, SA Wall, AB Cheng, F Albarghouthi, J Liu, S Oshima, AM Hucknall, T Hyslop, AHS Hall, KC Wood, ES Hwang, KC Strickland, Q Wei, and A Chilkoti, Cellphone enabled point-of-care assessment of breast tumor cytology and molecular HER2 expression from fine-needle aspirates. *npj Breast Cancer*, 7: 85 (2021). https://doi.org/10.1038/s41523-021-00290-0
- DM Shapiro, M Ney, SA Eghtesadi, and A Chilkoti, Protein phase separation: From first principles to applications, *Journal of Physical Chemistry: Special Issue on Liquid Liquid Phase Separation*, 125: 6740–6759 (2021).
- 38. JT Heggestad, DS Kinnamon, LB. Olson, J Liu, G Kelly, SA Wall, S Oshabaheebwa, CM Fontes, DY Joh, AM Hucknall, C Pieper, IA Naqvi, L Chen, LQ Que, T Oguin III, SK Nair, BA Sullenger, CW Woods, GD Sempowski, BD Kraft, and A Chilkoti, Multiplexed, quantitative serological profiling of COVID-19 from blood by a point-of-care test, *Science Advances*, 7: eabg4901 (2021).
- 39. CM Fontes, BD Lipes, J Liu, K Agans, D Cruz, G Kelly, K Luginbuhl, DY Joh, S Foster, A Hucknall, M Mikkelsen, CF Pieper, RW Horstmeyer, TW Geisbert, M Gunn, and A Chilkoti, Ultra-sensitive point-of-care immunoassay for secreted glycoprotein detects Ebola infection earlier than PCR, *Science Translational Medicine*, 13: eabd96961 (2021); DOI: 10.1126/scitranslmed.abd9696.
- KM Hainline, LS Shores, NL Votaw, ZJ Bernstein, SH Kelly, CN Fries, MS Madhira, CA Gilroy, A Chilkoti, and JH Collier, Modular complement assemblies for mitigating inflammatory conditions, *Proc. Natl. Acad. Sci. USA*, **118** (15): e2018627118 (2021); https://doi.org/10.1073/ pnas.2018627118.
- K Laaß, FG Quiroz, J Hunold, S Roberts, A Chilkoti, and D Hinderberger Nanoscopic dynamics dictate the phase separation behavior of intrinsically disordered proteins, *Biomacromolecules*, 22: 1015-1025 (2021).
- 42. X Zeng, C Liu, MJ Fossat, P Ren, A Chilkoti, and RV Pappu Design of intrinsically disordered proteins that undergo phase transitions with lower critical solution temperatures, *APL Materials*, 9: 021119 (2021); https://doi.org/10.1063/5.0037438.
- 43. L Li, CW Shields IV, J Huang, Y Zhang, KA Ohiri, BB Yellen, A Chilkoti, and GP López, Rapid capture of biomolecules from blood via stimuli-responsive elastomeric particles for acoustofluidic separation, *Analyst*, 145: 8087-8096 (2020).
- 44. X Zeng, AS Holehouse, **A Chilkoti**, T Mittag, and RV Pappu, Connecting coil-to-globule transitions to full phase diagrams for intrinsically disordered proteins, *Biophysical Journal*, 119 (2), 402-418 (2020).

- 45. A Varanko, S Saha, and A Chilkoti, Recent trends in protein and peptide-based biomaterials for advanced drug delivery, *Advanced Drug Delivery Reviews*, **156**: 133–187 (2020).
- 46. P Yousefpour, A Varanko, R Subrahmanyan, and A Chilkoti, Recombinant fusion of glucagon-like peptide-1 and an albumin binding domain provides glycemic control for a week in diabetic mice, *Advanced Therapeutics*, **3**: 2000073 (2020).
- 47. RD. Dodd, A Scherer, W Huang, KA Ashcraft, VR Stephens, P Yousefpour, V Knepper-Adrian, W Floyd, M Chen, Y Ma, EM Mastria, DM Cardona, WC Eward, A Chilkoti, and DG Kirsch, Tumor subtype determines therapeutic response to chimeric polypeptide nanoparticle-based chemotherapy in *Pten*-deleted mouse models of sarcoma, *Clinical Cancer Research* 26: 5036-5047 (2020).
- 48. M Dzuricky, B Rogers, A Shahid, P Cremer, and A Chilkoti, De novo engineering of intracellular droplets of an artificial intrinsically disordered protein, *Nature Chemistry* **12**: 814-825 (2020).
- 49. CA Gilroy, ME Capozzi, J Tong, DA D'Alessio, JE Campbell, and A Chilkoti, A long-acting GLP-1 and FGF21 dual agonist protects mice from obesity and hyperglycemia, *Science Advances* 6: eaaz9890 (2020).
- 50. S Banskota, S Saha, N Kirmani, J Bhattacharya, P Yousefpour, M Dzuricky, X Li, I Spasojevic, K Young, and **A Chilkoti**, Genetically encoded stealth nanoparticles of a zwitterionic polypeptidepaclitaxel conjugate have a wider therapeutic window than Abraxane in multiple tumor models, *Nano Letters* **20**: 2396-2409 (2020).
- 51. DF Cruz, CM Fontes, J Huang, A Hucknall, A Chilkoti, and MH Mikkelsen, Ultrabright fluorescence readout of a point-of-care immunoassay using plasmonic metasurfaces, *Nano Letters* 2020, **20**: 4330–4336 (2020).
- S Saha, S Banskota, S Roberts, N Kirmani, and A Chilkoti, Engineering the architecture of Elastinlike polypeptides: from unimers to hierarchical self-assembly, *Advanced Therapeutics*, 3: 1900164 (2020).
- 53. S Roberts, V Miao, S Costa, J Simon, and A Chilkoti, Complex microparticle architectures from stimuli-responsive intrinsically disordered polypeptides, *Nature Communications*, **11**: 1342 (2020).
- 54. AK Varanko, JC Su, and A Chilkoti, Elastin-like polypeptides for biomedical applications, *Annals Biomedical Engineering*, **22**: 343-369 (2020).
- 55. J Wang, J Min, SA Eghtesadi, RS Kane, and **A Chilkoti**, A quantitative study of the effect of receptor and ligand density on uptake of multivalent receptor-targeted nanoparticles by cancer cells, *ACS Nano*, **14**: 372–383 (2020).
- 56. NX Williams, N Watson, DY Joh, A Chilkoti, and AD Franklin, Aerosol jet printing of biological inks by ultrasonic delivery, *Biofabrication*, **12**: 025004 (2020).
- 57. JT Heggestad, CM Fontes, DY Joh, AM Hucknall, and A Chilkoti, In pursuit of zero 2.0: Recent developments in nonfouling polymer brushes for immunoassays, *Advanced Materials* **32**: 1903285 (2020).
- 58. S Deshpande, Y Yang, A Chilkoti, and S Zauscher, Enzymatic synthesis of polydeoxynucleotides by terminal deoxynucleotidyl transferase, *Methods in Enzymology*, **627**: 163-188 (2019).
- 59. J Wang, S Saha, J Schaal, P Yousefpour, X Li, and A Chilkoti, Heuristics for the optimal presentation of bioactive peptides on polypeptide micelles, *Nano Letters*, **19**: 7977-7987 (2019).
- 60. L Willems, L van Westerveld, S Roberts, I Weitzhandler, C Calcines Cruz, A Hernandez-Garcia, A Chilkoti, E Mastrobattista, J Van Der Oost, and R de Vries, The nature of the amorphous hydrophilic

block affects self-assembly of an artificial viral coat polypeptide, *Biomacromolecules*, **20**: 3641-3647 (2019).

- 61. FG Quiroz, Nan K. Li, Stefan Roberts, I Weitzhandler, YG Yingling, and A Chilkoti, Syntax and chain length of intrinsically disordered protein polymers dictate hysteresis upon phase separation, *Science Advances*, **5**: eaax (2019).
- 62. MT Manzari, GR Anderson, KH Lin, M Cakir, M Zhang, CE Moore, RN Skelton, M Fevre, X Li, SE Wardell, SA Costa, KC Wood, and **A Chilkoti**, Genomically informed small molecule drugs overcome resistance to a sustained release formulation of an engineered death receptor agonist in patient-derived tumor models, *Science Advances*, **5**: eaaw (2019).
- 63. Z Dai, AJ Lee, S Roberts, TA Sysoeva, S Huang, M Dzuricky, **A Chilkoti**, and L You, Versatile biomanufacturing by a hybrid biological-material system, *Nature Chemical Biology*, **15**: 1017-1024 (2019).
- 64. M Dzuricky, S Xiong, and **A Chilkoti**, Avidity and cell uptake of integrin targeting polypeptide micelles is strongly shape dependent, *Nano Letters*, **19:** 6124-6132 (2019).
- 65. JR Simon, L You, and A Chilkoti, Engineered ribonucleoprotein granules regulate gene expression in protocells, *Molecular Cell*, **75:** 66-75.e5 (2019).
- 66. J Koc, T Simovich, E Schönemann, A Chilkoti, H Gardner, GW Swain, K Hunsucker, A Laschewsky, and A Rosenhahn, Sediment challenge to promising ultra-low fouling hydrophilic surfaces in the marine environment, *Biofouling*, **35**: 454-462 (2019).
- 67. L Willems, S Roberts, I Weitzhandler, A Chilkoti, E Mastrobattista, J van der Oost, RJ de Vries. Inducible fibril formation of silk-elastin diblocks, *ACS Omega*, 4: 9135-43 (2019).
- 68. DY Joh, Z Zimmers, M Avlani, JT Heggestad, HB Aydin, N Ganson, S Kumar, C Fontes, RK Achar, MS Hershfield, AM Hucknall, and A Chilkoti, Architectural modification of conformal PEGbottlebrush coatings minimizes anti-PEG antigenicity without compromising stealth properties, Advanced Healthcare Materials, 1801177 (2019).
- 69. P Yousefpour, L Ahn, J Tewksbury, JJ Bellucci, S Saha, X Li, and A Chilkoti, Conjugate of doxorubicin to albumin binding peptide outperforms aldoxorubicin, *Small* 1804452 (2019).
- 70. A Varanko and **A Chilkoti**, Biomaterial approaches for delivery of peptide drugs to treat type 2 diabetes, *Advanced Healthcare Materials*, 1801509 (2019).
- D Mozhdehi, K Luginbuhl, M Dzuricky, S Xiong, F Huang, M Lewis, S Zelenetz, C Colby, and A Chilkoti, Genetically encoded cholesterol-modified polypeptides, *J. Am. Chem. Soc.*, 141: 945–951 (2019).
- 72. S Banskota, P Yousefpour, N Kirmani, X Li, and A Chilkoti, Long circulating genetically encoded intrinsically disordered zwitterionic polypeptides for drug delivery, *Biomaterials*, **192**: 475-485 (2019).
- 73. SA Costa, D Mozhdehi, MJ Dzuricky, FJ Isaacs, EM Brustad, and A Chilkoti, Active targeting of cancer cells by nanobody decorated polypeptide micelle with bio-orthogonally conjugated drug, *Nano Letters*, **19**: 247–254 (2019)
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- 75. S Roberts, TS Harmon, JL Schaal, V Miao, J(K) Li, A Hunt, Y Wen, T Oas, JH Collier, R Pappu, and A Chilkoti, Injectable tissue integrating networks from recombinant polypeptides with tunable order, *Nature Materials*, 17: 1154–1163 (2018).
- 76. CM Fontes, RK Achar, , DY Joh, I Ozer, S Bhattacharjee, A Hucknall, and **A Chilkoti**, Engineering the surface properties of a zwitterionic polymer brush to enable the simple fabrication of inkjetprinted point-of-care immunoassays, *Langmuir*, Article ASAP. DOI: 10.1021/acs.langmuir. 8b01597
- 77. R Gu, T Oweida, YG Yingling, A Chilkoti, and S Zauscher, Enzymatic synthesis of nucleobasemodified single-stranded DNA offers tunable resistance to nuclease degradation, *Biomacromolecules* 19: 3525-3535 (2018).
- 78. KM Ruff, S Roberts, A Chilkoti, and RV Pappu, Advances in understanding stimulus responsive phase behavior of intrinsically disordered protein polymers, *J. Molecular Biology* **430**: 4619-4635 (2018).
- 79. M Dzuricky, S Roberts, and A Chilkoti, Convergence of artificial protein polymers and intrinsically disordered proteins, *Biochemistry* 57: 2405-2414 (2018).
- 80. S Roberts, S Costa, J Schaal, J Simon, M Dzuricky, FQ García, and A Chilkoti, Elastin-like polypeptides, *Comprehensive Biomaterials II*, in press.
- 81. D Mozhdehi, KM Luginbuhl, JR Simon, M Dzuricky, FC Huang, KL Buehne, NR Mayne, I Weitzhandler, M Bonnn and SH Parekh and A Chilkoti, Genetically encoded lipid-polypeptide hybrid biomaterials, *Nature Chemistry* **10**: 496–505 (2018).
- 82. NK Li, S Roberts, FG Quiroz, A Chilkoti, and YG Yingling, Sequence directionality dramatically affects LCST behavior of elastin-like polypeptides *Biomacromolecules* **19:** 2496-2505 (2018).
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Patents

	Pat. No.	Title
1.	11,169,150	Chips, detectors, and methods of making and using the same
2.	11,155,584	Unstructured non-repetitive polypeptides having LCST behavior
3.	11,135,301	Triblock polypeptide-based nanoparticles for the delivery of hydrophilic drugs
4.	11,130,989	Non-fouling polymeric surface modification and signal amplification method for biomolecular detection
5.	11,130,987	Direct detection of RNA by surface initiated enzymatic polymerization
6.	11,103,558	Therapeutic agents comprising a BMP-9 peptide and eleastin-like peptides
7.	10,596,230	Methods of increasing nutrient absorption in the intestine using therapeutic
		agents comprising GLP-2 and elastin-like peptides
8.	10,392,611	Polymer conjugates having reduced antigenicity and methods of using the same
9.	10,385,115	Fibronectin type III domain-based fusion proteins
10.	10,364,451	Polymer conjugates having reduced antigenicity and methods of using the same
11.	10,302,636	Detection devices and related methods of use
12.	10,288,607	Detection and assay devices and methods of making and using the same
13.	10,258,700	Methods and compositions for delivering active agents with enhanced pharmacological properties

14.	9,956,300	Hydrogels formed from polypeptide micelles and methods of use thereof
15.	9,890,420	Non-fouling polymeric surface modification and signal amplification method
		for biomolecular detection
16.	9,821,036	Therapeutic agents comprising a GLP-2 peptide and elastin-like peptides
17.	9,771,396	Phase transition biopolymers and methods of use
18.	9,592,303	Enzyme-catalyzed synthesis of site-specific and stoichiometric biomolecule-
		polymer conjugates
19.	9,493,823	Non-fouling polymeric surface modification and signal amplification method for
	, ,	biomolecular detection
20.	9,482,664	Detection devices and related methods of use
21.	9,458,218	Therapeutic agents comprising fusions of insulin and elastic peptides
22.	9.328.154	Therapeutic agents comprising fusions of growth hormone and elastic peptides
23.	9.200.083	Methods of treating diabetes using therapeutic agents comprising a GLP-1
	,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	receptor agonist and elastin-like pentides
24	9 127 047	Therapeutic agents comprising insulin and elastin-like pentides
25	8.912.310	Phase transition biopolymers and methods of use
26	8 841 255	Therapeutic agents comprising fusions of vasoactive intestinal pentide and elastic
20.	nentides	Therapeutie agents comprising fusions of vasouenve intestinal populae and elastic
27	8 796 184	Detection assay devices and methods of making and using the same
27.	8 729 018	Therapeutic agents comprising elastic pentides
29	8 497 356	Biomolecule polymer conjugates and methods for making the same
30	8 470 967	Phase transition biopolymers and methods of use
31	8 367 314	Non-fouling polymeric surface modification and signal amplification method for
51.	0,507,514	hiomolecular detection
32	8 334 257	Methods and compositions for delivering active agents with enhanced
52.	0,554,257	nharmacological properties
33	8 178 495	Therapeutic agents comprising a GI P-1 receptor agonist and elastin-like pentide
3 <u>4</u>	7 919 138	Microstamping activated polymer surfaces
35	7,713,689	Non-fouling polymeric surface modification and signal amplification method for
55.	7,715,007	homolecular detection
36	7 429 458	Methods of using bioelastomers
30. 37	7 364 850	Methods of using bioelastomers
38	7,507,057	Microstamping activated polymer surfaces
30	7,103,712	Sensor for use in testing biological biochemical chemical or environmental
39.	7,129,090	semples
40	6 852 831	Samples Fusion pentides isolatable by phase transition
40. 41	6 755 621	Stimuli regnonsive hybrid meterials containing melocular actuators and their
41.	0,755,021	simulti-responsive hybrid materials containing molecular actuators and then
12	6 716 169	applications
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43.	0,491,001	sumum responsive hybrid materials containing molecular actuators and their
10	(111)51	applications
46.	0,444,234	Microstamping activated polymer surfaces

Patent Applications

Pub. App. No. Title

1.	20220008567	Liquidly injectable, self-stabilizing biopolymers for the delivery of radionuclide
2.	20210340186	Genetically encoded polypeptide for affinity capture and purification of biologics
3.	20210316007	Nanoparticulate drug delivery systems
4.	20210309722	Dual agonist fusion proteins
5.	20210261626	Genetically encoded polypeptide for affinity capture and purification of biologics
6.	20210154143	Recombinant production of hybrid lipid-biopolymer materials that self-assemble and
		encapsulate agents
7.	20210128734	Stimuli-responsive PEG-like polymer-based drug delivery platform
8.	20210060171	Albumin binding peptide-drug (aibiped) conjugates and methods of making and
		using same
9.	20210047520	Tunable nonfouling surface of oligoethylene glycol
10.	20210046188	Surfaces having reduced non-specific binding and antigenicity
11.	20210011014	Detection and assay devices and methods of making and using the same
12.	20210009999	Amphiphilic polynucleotides
13.	20200378916	Nonfouling biosensors
14.	20200282022	Therapeutic agents comprising elastin-like peptides
15.	20200276553	Programmable liquid, gel and biohybrid compartments and methods of use
16.	20200164082	Triblock polypeptide-based nanoparticles for the delivery of hydrophilic drugs
17.	20200148724	Order and disorder as a design principle for stimuli-responsive biopolymer networks
18.	20200023083	Methods and compositions for delivering active agents with enhanced
		pharmacological properties
19.	20200017557	Unstructured non-repetitive polypeptides having LCST behavior
20.	20190391141	Detection devices and related methods of use
21.	20190345228	Targeted therapeutic agents comprising multivalent protein-biopolymer fusions
22.	20190328662	Genetically encoded lipid-polypeptide hybrid biomaterials that exhibit temperature
		triggered hierarchical self-assembly
23.	20190285623	Detection and assay devices and methods of making and using the same
24.	20190091297	Therapeutic agents comprising elastin-like peptides
25.	20190083638	Niclosamide-conjugated polypeptide nanoparticles
26.	20190023743	Methods and compositions for modulating drug-polymer architecture,
		pharmacokinetics and biodistribution
27.	20190015520	Polymer conjugates having reduced antigenicity and methods of using the same
28.	20180369399	Polymer conjugates having reduced antigenicity and methods of using the same
29.	20180258157	Targeted therapeutic agents comprising multivalent protein-biopolymer fusions
30.	20180228908	Genetically encoded intrinsically disordered stealth polymers for delivery and
		methods of using same
31.	20180221496	Enzyme-catalyzed synthesis of site-specific and stoichiometric biomolecule-polymer
		conjugates
32.	20180217136	Chips, detectors, and methods of making and using the same
33.	20180155763	Non-fouling polymeric surface modification and signal amplification method for
		biomolecular detection
34.	20180037609	Phase transition biopolymers and methods of use
35.	20170360946	Enzyme-catalyzed synthesis of site-specific and stoichiometric biomolecule-polymer
		conjugates
36.	20170239363	Polymer conjugates having reduced antigenicity and methods of using the same
37.	20170233714	Polymer conjugates having reduced antigenicity and methods of using the same
38.	20170216808	Programmable liquid, gel and biohybrid compartments and methods of use

39	. 20170108496	Detection devices and related methods of use
40	. 20170058329	Direct detection of RNA by surface initiated enzymatic polymerization
41	. 20160348147	Systems and devices for protease detection based on engineered polymers and biopolymers and methods of use
42	. 20160333392	Non-fouling polymeric surface modification and signal amplification method for biomolecular detection
43	. 20160271262	Hydrogels formed from polypeptide micelles and methods of use thereof
44	. 20160222218	Tunable nonfouling surface of oligoethylene glycol
45	. 20160122451	Enzyme-catalyzed synthesis of site-specific and stoichiometric biomolecule-polymer conjugates
46	. 20160120952	Therapeutic agents comprising elastin-like peptides
47	. 20160114053	Methods and compositions for delivering active agents with enhanced
		pharmacological properties
48	. 20160030521	Therapeutic agents comprising elastin-like peptides
49	. 20150112022	Phase transition biopolymers and methods of use
50	. 20150080306	Therapeutic agents comprising elastic peptides
51	. 20140364371	Direct drug delivery system based on thermally responsive biopolymers
52	. 20140228249	Detection and assay devices and methods of making and using the same
53	. 20140213516	Therapeutic agents comprising elastic peptides
54	. 20140180220	Tunable nonfouling surface of oligoethylene glycol
55	. 20140024600	Methods and compositions for modulating drug-polymer architecture,
		pharmacokinetics and biodistribution
56	. 20130310538	Methods and compositions for delivering active agents with enhanced
		pharmacological properties
57	. 20130281624	Phase transition biopolymers and methods of use
58	. 20130178416	Fusion peptide therapeutic compositions
59	. 20130178411	Therapeutic agents comprising elastic peptides
60	. 20130172274	Methods and compositions for delivering active agents with enhanced
		pharmacological properties
61	. 20130157889	Detection devices and related methods of use
62	. 20130143802	Fusion peptide therapeutic compositions
63	. 20130143771	Non-fouling polymeric surface modification and signal amplification method for
		biomolecular detection
64	. 20130085104	Therapeutic agents comprising elastin-like peptides
65	. 20130085099	Therapeutic agents comprising elastin-like peptides
66	. 20130079277	Therapeutic agents comprising elastin-like peptides
67	. 20130005664	Therapeutic agents comprising elastic peptides
68	. 20120121709	Phase transition biopolymers and methods of use
69	. 20110294189	Biomolecule polymer conjugates and methods for making the same
70	. 20110277683	Microstamping activated polymer surfaces
71	. 20110236384	Direct drug delivery system based on thermally responsive biopolymers
72	. 20110207673	Methods and compositions for modulating drug-polymer architecture,
	_	pharmacokinetics and biodistribution
73	. 20110123487	Therapeutic agents comprising elastic peptides
74	. 20110110866	Elastin-like polypeptide and gadolinium conjugate for magnetic resonance imaging
75	. 20110039776	Fusion peptide therapeutic compositions
76	. 20100189643	Drug delivery with stimulus responsive biopolymers

- 77. 20100099579 Non-fouling polymeric surface modification and signal amplification method for biomolecular detection
- 78. 20100022455 Therapeutic agents comprising elastin-like peptides
- 79. 20090270317 Pharmaceutical compositions comprising bioelastomer fusion proteins
- 80. 20090247424 Detection assay devices and methods of making and using the same
- 81. 20090220455 Pharmaceutical compositions comprising ELP fusion proteins
- 82. 20090004104 Methods and compositions for delivering active agents with enhanced pharmacological properties

Invited Talks

- (1) Vienna Institute of Biotechnology, BOKU, Vienna, Austria.
- (2) Biocenter, Departments Biology and Chemistry, Johannes Gutenberg University, November 25, Mainz, Germany.
- (3) Max Planck Institute for Medicine, November 23, Heidelberg, Germany
- (4) Institute for Science and Technology Austria (ISTA) November 18, Klosterneuberg, Austria.
- (5) Vienna BioCenter, November 17, Vienna, Austria.
- (6) Department of Nanobiotechnology, BOKU, November 4, 2022, Vienna, Austria.
- (7) Institute of Applied Synthetic Chemistry, TU Wien November 3, 2022, Vienna, Austria.
- (8) Korean Society of Bioengineering and Biotechnology September 29-October 1, Jeju Island, South Korea.
- (9) 15th ÖGMBT Annual Meeting, September 19-22 Vienna, Austria,
- (10) Austrian Institute of Technology Biosensors workshop, September 11-14, Hirschegg, Austria.
- (11) Bioinspired Materials Gordon Research Conference, June 6-9, 2022, Les Diablerets, Switzerland
- (12) Invited speaker, "Phase Behavior in Soft & Living Matter", A joint meeting of Princeton MRSEC-IRG-B: Harnessing Disordered Macromolecular Structures for Living and Soft Matter, Princeton Biomolecular Condensate Program (PBCP) and AFOSR MURI: Uncovering and applying the interfacial design principles of multiphasic and synthetic organelles, Nov 18 – 19, 2021, Princeton University.
- (13) Invited speaker, EMBO workshop (virtual format), "Designing functional biomolecular assemblies: Beyond biology" September 28 – October 1, 2021.
- (14) Invited speaker (virtual), Department of Chemical Engineering, NYU, March 12, 2021.
- (15) Invited speaker (virtual), Department of Chemical and Biomolecular Engineering, NCSU, March 1, 2021.
- (16) Invited speaker (virtual), University of Washington Biomaterials seminar, October 29, 2020.
- (17) Plenary speaker (virtual), Carnegie Mellon Forum on Biomedical Engineering and Annual Symposium of International Academy of Medical and Biological Engineering (virtual), September 18-19, 2020.
- (18) IDP Seminar (virtual format), "Controlling Phase Behavior in Test Tubes and Cells by Artificial IDPs", September 17, 2020

- (19) AIEEE Rapid conference (virtual), invited speaker Session WB1: Materials and Devices for Biosensing, August 12, 2020.
- (20) Invited speaker, Department of Chemical and Biomedical Engineering, Florida A&M University-Florida State University, February 28, 2020.
- (21) Invited speaker, Department of Chemical and Biomolecular Engineering, Case Western Reserve University, Fall Departmental Seminar Series, January 23, 2020.
- (22) Invited speaker UCSD BME and JHU BME "Grand Challenges for the Next Decade of Biomedical engineering", University of California, San Diego, January 17-18 (2020).
- (23) NSF Sponsored Research Collaborative Network meeting, Univ. Pennsylvania, January 16-17, 2020.
- (24) Plenary speaker, SFNano-C'Nano joint meeting, Dijon, France, Dec 10-12, 2019.
- (25) Seminar speaker, Department of Biomedical Engineering, Columbia University, New York, NY, November 21, 2019.
- (26) Invited speaker, PMSE symposium: "Future of Biomacromolecules at a Crossroads of Polymer Science and Biology", ACS National Meeting in San Diego, California, August 25-29, 2019.
- (27) Invited speaker, Centre for Research in Medical Devices, National University of Ireland Galway Galway, Ireland, August 22, 2019
- (28) Invited speaker, Xingda lecture series, College of Chemistry and Molecular Engineering (CCME), Peking University, Beijing, China, May 31, 2019.
- (29) Affordable Cancer Technologies Annual PI meeting, National Cancer Institute, Frederick, MD, May 23-23, 2019.
- (30) Pfizer 2019 Bioconjugation Network Summit, Durham, NC, April 29, 2019,
- (31) Plenary lecture, International Congress BioNanoMed 2019, Graz, Austria April 15-18, 2019,
- (32) Invited talk, American Chemical Society, PMSE symposium: "Molecular Engineering of Peptide Assemblies", Orlando, March 31-April 2, 2019.
- (33) Invited talk, American Physical Society, Session: "Physical Properties of Sequence-Controlled Polymers, from Block Copolymers to Biomacromolecules", Boston, March 4-8, 2019,
- (34) Department of Bioengineering, Graduate Student Seminar Series, University of Pittsburgh, February 14, 2019.
- (35) Seminar speaker, School of Biomedical Engineering, Colorado State University, February 4, 2019.
- (36) Seminar speaker, Centre for Blood Research, Faculty of Medicine, The University of British Columbia, December 12, 2018.
- (37) Seminar speaker, Biomedical Engineering seminar series. Department of Biomedical Engineering, University of Texas at Austin, Austin, TX, December 6, 2018.
- (38) Distinguished speaker, Department of Bioengineering colloquium, Rice University, Houston TX, October 30, 2018.
- (39) Plenary speaker, NANOBIOTECK-2018, Indian Society of Nanomedicine, All India Institute of Medical Sciences, New Delhi October 24- 27, 2018
- (40) Invited speaker, Korean BMES-BME joint symposium, Atlanta, GA, October 17-19, 2018

- (41) Keynote speaker, 2018 Polymers in Medicine and Biology Conference, Embassy Suites Napa Valley in Napa, CA, September 9-12, 2018.
- (42) Invited talk, Biointerfaces International 2018 Conference, ETH Zurich, Zurich, August 14-16, 2018.
- (43) Plenary Lecture, Society for Biomaterials and Artificial Organs India, VIT Vellore, India, July 24-28, 2018.
- (44) Invited talk, Gordon Research Conference on Intrinsically Disordered Proteins, Les Diablerets Conference Center, Switzerland, July 1-6 2018.
- (45) Keynote talk, ECI Conference on Nanotechnology in Medicine, Albufeira, Portugal, June 5-9, 2018.
- (46) Seminar, Process Development, Pre-Pivotal Drug Product and Pivotal Drug Product Groups, Thousand Oaks, CA, May 31, 2018.
- (47) Department Seminar, Department of Biosystems Science and Engineering (D-BSSE) ETH Zurich, May 8, 2018.
- (48) Department Seminar, Fischell Department of Bioengineering, University of Maryland, College Park, April 27, 2018
- (49) Department Seminar, Department of Materials Science and Engineering, Nanyang Technological University, March 6, 2018.
- (50) Plenary Speaker, International Conference on Cellular and Molecular Engineering (ICCMB), Singapore, March 5-7, 2018.
- (51) Department seminar, Department of Pharmaceutics, University of Utah, Salt Lake City, February 5, 2018.
- (52) "Modulation of order and disorder in the sequence of a genetically encoded polypeptide yields injectable porous network", Division of Polymeric Materials Science and Engineering, 254th ACS National Meeting, Washington, DC, August 20-24, 2017.
- (53) "Interplay of Order and Disorder Controls Hierarchical Self-Assembly of Partially Structured Elastin Polypeptides", Elastin, Elastic Fibers & Microfibrils Gordon Research Conference, University of New England, Biddeford, ME, July 30 - August 4, 2017
- (54) "Genetically Encoded Biomaterials that Self-Assemble Across Multiple Length Scales", Biomaterials & Tissue Engineering, Gordon Research Conference, Holderness School, Holderness, NH, July 23-28, 2017.
- (55) "Interplay of order and disorder directs hierarchical self-assembly of thermally sensitive polypeptides", 91st ACS Colloids and Surface Science Symposium in New York City, New York, July 9-12, 2017.
- (56) "Genetically encoded nanoparticles for delivery of chemotherapeutics", Canadian Society of Chemistry, Toronto, May 28-30, 2017.
- (57) "Discovery of a family of new LCST peptide polymers: Coacervation behavior and self-assembly", Division of Colloid and Surface Chemistry, 253rd ACS National Meeting in San Francisco, California, April 2-6, 2017.
- (58) "Self-assembly of stimulus responsive biohybrid polymers", Division of Polymeric Materials Science and Engineering, 253rd ACS National Meeting in San Francisco, California, April 2-6, 2017.

- (59) "Antibody microarrays for point of care detection from a single drop of blood, 7th International Conference on Bioengineering and Nanotechnology, Chicago, March 19-22, 2017.
- (60) "Translating molecular bioengineering from the lab to the patient", Department of Biomedical Engineering, University Wisconsin, Madison, Wisconsin, March 6, 2017.
- (61) "Phase behavior and self-assembly of a new family of stimulus responsive peptide polymers", BIV Subgroup symposium, 2017 Biophysical Society Annual Meeting, New Orleans, February 11-12, 2017.
- (62) "Translating molecular bioengineering from the lab to the patient", Department of Chemical and Biomolecular Engineering, University of Tennessee, Jan 17, 2017.
- (63) "Antibody microarrays for point-of-care detection from a single drop of blood", PACSURF 2016 (Pacific Rim Symposium on Surfaces, Coatings and Interfaces), Hapuna Beach Prince hotel, Kohala Coast, Hawaii, Dec. 11-15, 2016.
- (64) "Solving drug delivery problems by genetically engineered nanoparticles," CT3N Annual Symposium, University of Pennsylvania, December 6 2016
- (65) "Translating bioengineering from the lab to the patient," Surgery Grand Rounds, Duke University, Durham, NC, Nov. 30, 2016.
- (66) "What makes me a scientist", Duke BioCoRE Program (NIH/IMSD grant), Duke University, November 15, 2016.
- (67) "Elastin and beyond: New peptide polymers that display aqueous coacervation behavior," Carolina Biophysics Symposium, University of North Carolina at Chapel Hill, November 3, 2016
- (68) "Translating molecular bioengineering from the lab to the patient," BME Fall 2016 Seminar Series, Case Western Reserve University, October 31, 2016
- (69) "Solving drug delivery problems by genetically engineered nanoparticles," BMES Annual Conference, Minneapolis, Minnesota, October 6, 2016
- (70) "Recombinant peptide polymers that display aqueous phase behavior: From sequence to applications," UCSB BMSE Seminar Series, University of Santa Barbara, September 28, 2016
- (71) "Recombinant peptide polymers that display aqueous phase behavior: From sequence to applications," UNC Materials Research Society Seminar, The University of North Carolina at Chapel Hill, September 15, 2016
- (72) "Elastin and beyond: New peptide polymers that display aqueous coacervation behavior," ACS Annual Meeting, Philadelphia, PA, August 22, 2016
- (73) "Molecular design of nanoparticles for delivery of cancer chemotherapeutics," ECI conference Schloss Herrnstein, Austria, July 3-7, 2016.
- (74) "Discovery of new peptide polymers that display aqueous phase behavior", CIMTEC, Perugia, Italy June 5-9, 2016.
- (75) "Solving drug delivery problems by genetically engineered nanoparticles", Cancer Nanotechnology symposium at Nanotech 2016 conference and Expo, Washington DC, May 22-25, 2016
- (76) "A point-of-care antibody microarray fabricated on a nonfouling polymer brush", E-MRS, Lille, France, May 2-6, 2016.

- (77) "Molecular engineering of drug delivery systems for treatment of type 2 diabetes", Diabetes and Obesity Research Institute, University of Southern California, Los Angeles, CA, April 12, 2016
- (78) "Translating molecular bioengineering from the lab to the patient", Department of Biomedical Engineering, Texas A&M University, College Station, TX, March 30, 2016.
- (79) "Translating molecular bioengineering from the lab to the patient", School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ, April 1, 2016
- (80) "Antibody Microarrays for Point of Care Detection from a Single Drop of Blood", Point of Care Diagnostics 2016, 15-16 March 2016, Madrid, Spain.
- (81) "Translating molecular bioengineering from the lab to the patient", Duke Clinical Research Institute Cardiology Grand Rounds, Duke University Medical Center, Durham, NC, December 1, 2015.
- (82) "Translating molecular bioengineering from the lab to the patient", Department of Chemical and Biomolecular Engineering, University of Oklahoma, Norman, OK, Dec. 3, 2015.
- (83) "Elastin-like polypeptide fusions for protein purification and delivery of biologics", IBC's BioProcess International Conference and Exposition, Boston, MA, October 26-29, 2015.
- (84) "Stimulus responsive elastin like polypeptides for drug delivery', Fusion Drug Delivery Conference, Bridging the Gap Between Basic Science and Unmet Medical Needs, Tucson, AZ, September 28 – October 1 2015.
- (85) "Molecular design of nanoparticles for delivery of cancer chemotherapeutics", UNC/Duke Developmental/Molecular Therapeutics Retreat, UNC Chapel Hill, NC, September 25, 2015.
- (86) "Translating molecular bioengineering from the lab to the patient", Department of Biomedical Engineering, University of Minnesota, Minneapolis, MN, September 14, 2015.
- (87) "Translating molecular bioengineering from the lab to the patient", Department of Chemical and Biomolecular Engineering, Johns Hopkins University, Baltimore, MD, September 10, 2015.
- (88) Discovery of a Family of New LCST Peptide Polymers: Phase Behavior and Self-Assembly, Division of Polymer Chemistry, Herman Mark Young Scholars Award Symposium in Honor of Bradley Olsen, 250th ACS National Meeting, Boston, MA, August 16-20, 2015.
- (89) "Beyond Elastin: New peptide polymers that exhibit aqueous coacervation", Division of Agricultural and Food Chemistry, Complex Coacervation: Principles & Applications, 250th ACS National Meeting, Boston, MA, August 16-20, 2015.
- (90) "Developing molecular bioengineering tools for protein purification and drug delivery", KBI Biopharma, Durham, August 7, 2015.
- (91) "New intrinsically disordered polypeptides that exhibit phase behavior", Elastin, Elastic Fibers & Microfibrils Gordon Research Conference, University of New England, Biddeford, Maine, July 26-31, 2015
- (92) "Self-assembly of genetically encoded polymers", Chemisches Kolloquium, Universität Paderborn, Paderborn, Germany, July 13, 2015.
- (93) "Translating molecular bioengineering from the lab to the patient", Department of Materials Science, Nanyang Technological University, Singapore, July 3, 2015.
- (94) "Translating molecular bioengineering from the lab to the patient", Duke-NUS Medical School Singapore, July 2, 2015.

- (95) "Discovery of new peptide polymers that display aqueous phase behavior", International Conference on Materials for Advanced Technologies (ICMAT), Singapore, June 28 July 3, 2015.
- (96) "Biomedical applications of stimulus responsive peptide polymers", 24th American Peptide Symposium Orlando, Florida, June 20 25, 2015.
- (97) "Molecular design of nanoparticles for delivery of cancer chemotherapeutics', 17th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, June 14-17, 2015.
- (98) "Protein-polymer conjugates by in situ ATRP", Center for Polymer-Based Protein Engineering, Carnegie-Mellon University, Pittsburgh, PA, June 9, 2015.
- (99) "Elastin and beyond: Genetically encoded LCST peptide polymers and their self-assembly behavior", Precision Polymer Materials (P2M), Lacanau, France, May 26 29, 2015.
- (100) "Phase behavior and self-assembly of a new family of stimulus responsive peptide polymers", Self-Assembly & Supramolecular Chemistry Gordon Research Conference, May 17-22, 2015 Renaissance Tuscany Il Ciocco Lucca (Barga), Italy
- (101) "Elastin & beyond: Stimulus responsive peptide polymers & their self-assembly behavior", 7th Annual Triangle Soft Matter Workshop, NC State University, Raleigh, NC, May 11th, 2015.
- (102)"Recombinant peptide polymers that display aqueous phase behavior: From sequence to applications", DuPont, Wilmington, DE, May 29, 2015.
- (103) "From sequence to phase behavior to self-assembly: Molecular design of nanoparticle drug delivery, Symposium on Multiscale Biomaterial Design, Society For Biomaterials 2015 Annual Meeting & Exposition, April 15-18 in Charlotte, North Carolina.
- (104)"Translating molecular bioengineering from the lab to the patient", North Carolina Biomedical Engineering Society Symposium, Duke University, Durham, NC, March 28, 2015
- (105)"Elastin-based amphiphilic copolymers as precision building blocks for controlled self-assembly", Division of Colloid and Surface Chemistry: Molecular Engineering of Peptide Assembly, 249th ACS National Meeting Denver, CO, March 22-26, 2015.
- (106) "Genetically engineered peptide polymers is for biomedical applications", Minisymposium: Polymers in Material Science & Biomedical Applications, MPI for Polymer Research, Mainz, Germany, March 13, 2015.
- (107) "Translating molecular bioengineering from the lab to the patient", Department of Bioengineering, UC San Diego, February 20, 2105.
- (108) "Translating molecular bioengineering from the lab to the patient", Department of Chemical Engineering, University of Rochester, February 4, 2015.
- (109)"Translating molecular bioengineering from the lab to the patient", Joint Duke-NUS/Duke Symposium, Singapore, January 19-20, 2015.
- (110) "Solving drug delivery problems by genetically engineered nanoparticles", Hanyang University, Korea, January 15, 2015.
- (111)"Translating molecular bioengineering from the lab to the patient", Seoul National University, January 14, 2015.
- (112)"Syntax of peptide polymers controls their function", Materials Research Society, Boston, Massachusetts, December 1, 2014.

- (113) "Translating molecular bioengineering from the lab to the patient", Institute for Molecular Engineering, University of Chicago, Chicago, Illinois, November 6-7, 2014.
- (114)"Molecular engineering of biointerfaces and biocolloids", Department of Materials Science and Engineering, North Carolina State University, Raleigh, NC, October 17, 2104.
- (115) "Solving drug delivery problems by genetically engineered polypeptides", NanoDDS meeting, University of North Carolina, Chapel Hill, North Carolina, October 7, 2014.
- (116)"Enhancing Biology to Manufacture Designer Materials: New Frontiers in Biofabrication", Exploratory seminar, Radcliffe Institute for Advaced Studies, Harvard University, Cambridge, Massachusetts, September 29-30, 2014.
- (117) "Surface initiated ATRP and its applications in medicine", ATRP Symposium/American Chemical Society, San Francisco, California, August 12-14, 2014.
- (118) "Intrinsically disordered peptide polymers that have interesting phase behavior in water", Intrinsically Disordered Proteins Gordon Research Conference, Stonehill College, Easton, Massachusetts, July 7-9, 2014.
- (119) "Discovery of a Vast New Family of LCST and UCST Peptide Polymers", Bioinspired Materials Gordon Research Conference, Mt. Snow Resort, Newry, Maine, June 22-27, 2014.
- (120)"Building highly sensitive protein immunoassays on a nonfouling polymer brush", Bioanalytical Sensors Gordon Research Conference, Newport, Rhode Island, June 22-27, 2014
- (121) "Harnessing polymerization at the solid-liquid interface for the design of protein and nucleic acid diagnostics", Biointerface Science Gordon Research Conference, Lucca, Italy, June 14-20, 2014
- (122) "Developing molecular bioengineering tools for protein purification and drug delivery", RTP Chemical Biology and Biotechnology Symposium, GSK, Research Triangle Park, NC, May 30, 2014.
- (123) "Solving drug delivery problems by genetically engineered polypeptides", University of North Carolina, Chapel Hill, North Carolina, May 29, 2014
- (124)"Low cost, point-of-care diagnostics", Frontiers 2014: Pratt School of Engineering, Duke University, Durham, NC May 12, 2014.
- (125)"PEGylation of protein therapeutics", Frontiers 2014: Pratt School of Engineering, Duke University, Durham, NC May 12, 2014.
- (126) "Delivery of small molecule drugs and biologics by genetically encoded peptide polymers", Bioformulation conference, Boston, MA, May 6-7, 2014
- (127)"Translating molecular bioengineering from the lab to the patient", Department of Bomedical Engineering, Wake Forest University, Winston-Salem, NC, April 17, 2014.
- (128)"Translating molecular bioengineering from the lab to the patient", Massachusetts Institute of Technology, Cambridge, MA, April 11, 2014
- (129)"Genetically encoded polypeptide nanoparticles for delivery of drugs", ACS National Meeting, Dallas, Texas, March 18-20, 2014
- (130) "Translating molecular bioengineering from the lab to the patient", Harvard University, Boston, Massachusetts, February 26, 2014

- (131) "Genetically encoded polypeptide nanoparticles for delivery of drugs", International conference on Chemical Biology: Disease mechanism and therapeutics (ICCB-2014), CSIR-IICT, Hyderabad, India, February 6-8, 2014
- (132) "Solving drug delivery problems by genetically engineered polypeptides", Dartmouth College, Hanover, New Hampshire, January 20, 2014
- (133) "Solving drug delivery problems by genetically encoded peptide polymers", Wageningen University, Netherlands, January 16, 2014.
- (134) "Solving drug delivery problems by genetically engineered nanoparticles", "NanoMedicine Symposium 2013: Paradigm Shifts in Cancer Therapy", Boston University, December 10, 2013.
- (135) "Solving drug delivery problems by genetically encoded peptide polymers", VINSE colloquium Vanderbilt University, December 4, 2013.
- (136) "Solving drug delivery problems by genetically encoded peptide polymers", Department of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, November 19, 2013.
- (137) "Design of nanoscale biointerfaces by self-assembly of genetically encoded peptide polymers", AVS 60th International Symposium and Exhibition, Long Beach, CA, October 27- November 1. 2013.
- (138) "Solving drug delivery problems with genetically encoded polymers", Polymers in Medicine, Santa Rosa, CA, October 9-12, 2013.
- (139) "Solving drug delivery problems by genetically engineered polypeptides", Institute for BioNanotechnology in Medicine (IBNAM), Northwestern University, Chicago, October 3, 2013.
- (140) "Solving drug delivery problems by genetically engineered polypeptides', Pritzker Award lecture, Biomedical Engineering Society Seattle, September 25-28, 2013.
- (141) "Genetically engineered polypeptide conjugates and fusions for drug delivery", PMSE: Division of Polymeric Materials Science and Engineering, Session: Bioconjugates and Hybrid Biomaterials, American Chemical Society, Indianapolis, September 8-13, 2013.
- (142)"Syntax of 'smart' peptide polymers governs their function", POLY: Division of Polymer Chemistry Session: Sequence-Controlled Polymers, American Chemical Society, Indianapolis, September 8-13, 2013.
- (143) "Moving beyond the hegemony of canonical VPGXG motifs that exhibit coacervation behavior" Gordon Research Conference on Elastin, Elastic Fibers & Microfibrils: From Basic Concepts to Translational Applications, University of New England, Biddeford, ME, July 21-26, 2013.Elastin Gordon Research Conference, July 14-19, 2013.
- (144)"Solving drug delivery problems by genetically encoded peptide polymers", Cancer Nanotechnology Gordon Research Conference, Mount Snow Resort, West Dover, VT July 14-19, 2013.
- (145) "Phase behavior and self-assembly of stimulus response peptide polymers, International Graduate Research Training Group 1524 Technische Universität Berlin, Colloquium, July 2, 2013.
- (146) "Solving drug delivery problems by genetically engineered polypeptides", Institute of Biophysics, Chinese Academy of Sciences, Beijing, China, June 6th, 2013.
- (147)"Polymer nanostructures that direct biological function", Department of Biomedical Engineering, Peking University, June 6th, 2013.

- (148) "Solving drug delivery problems by genetically engineered polypeptides", Frontier in Biological Science seminar series, Tsinghua University, Beijing, June 5th, 2013.
- (149) "Solving drug delivery problems by genetically engineered polypeptides", Department of Chemistry, Shanghai Jiaotong University, Shanghai, Chinna June 3, 2013
- (150)"Surface initiated polymerization and its applications in medicine", Invited lecture, CSIRO, Melbourne, April 8, 2013.
- (151) "Nonfouling polymer brushes as a platform for clinical diagnostics", University of South Australia, April 5, 2013.
- (152) "Nonfouling polymer brushes as a platform for clinical diagnostics", Invited lecture, 22nd Annual Conference of the Australasian Society for Biomaterials and Tissue Engineering, Barrossa Valley, April 2-5, 2013.
- (153) "Drug delivery by genetically encoded peptide polymers", Plenary lecture, 22nd Annual Conference of the Australasian Society for Biomaterials and Tissue Engineering, Barossa Valley, April 2-5, 2013.
- (154) "Solving drug delivery problems by genetically engineered polypeptides" 2013, Pritzker Distinguished Lecture, Illinois Institute of Technology, Chicago, March 1, 2013.
- (155) "Phase behavior and self-assembly of stimulus response peptide polymers", Max Planck Institute of Colloids and Interfaces, Feb. 20, 2013
- (156) "Polymer nanostructures that direct biological function", Department of Chemistry, Emory University, January 28, 2013.
- (157)"Genetically engineered polypeptides for drug delivery", Indian Institute for Chemical Technology, Hyderabad, January 4, 2013.
- (158) "Living off "smart" (bio)polymers", New Innovations in Polymers (And) Biomaterials (NIPAM: 80), 3rd Hoffman Symposium, Maui, Hawaii, December 14-17, 2012
- (159) "Industry and academia collaborations", BME Seminar panel discussion, Duke University, Durham, NC, November 19, 2012
- (160) "Genetically engineered polypeptide nanoparticles for drug delivery", Southeastern Regional Meeting of the American Chemical Society (SERMACS), Raleigh, NC, November 14-15, 2012.
- (161) "Bioanalytical challenges in characterization of nanoscale biomaterials", Society for Biomaterials Fall Symposium, New Orleans, LA, November 4 -7, 2012.
- (162)"Delivery of chemotherapeutics by genetically encoded polypeptide nanoparticles", Workshop on Enhanced Permeability and Retention (EPR) Effect in Nanomedicine, TONIC (Translation of Nanotechnologies in Cancer) Consortium, National Institutes of Health, Bethesda, October 10, 2012.
- (163)"Polymer nanostructures that direct biological function" Department of Biomedical Engineering, Yale University, September 27, 2012.
- (164) "Genetically engineered polypeptide drug carriers", Second Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2012), Suzhou, China September 11-14, 2012.
- (165) "Genetically engineered Elastin-like polypeptides for drug delivery", Suzhou Institute of Nano-tech and Nano-bionics (SINANO), Suzhou, China, September 10, 2012.

- (166) "Biomolecular toolbox for the in situ synthesis of protein-polymer conjugates", 244th American Chemical Society National Meeting and Exposition, ACS Philadelphia, August19-24, 2012
- (167)"Genetically engineered polypeptide nanoparticles for drug delivery", The Fourth International NanoBio Conference, Seattle, WA July 23 26, 2012.
- (168) "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & Exposition [168] "Design of Elastin-like polypeptides for drug delivery", The 39th Annual Meeting & The 39
- (169) "Genetically engineered polypeptides for drug delivery", University Bordeaux, Bordeaux, France, June 14, 2012.
- (170) "Syntax of "smart" peptide polymers governs their function", University Reims, Reims, France, June 20, 2012.
- (171) "Academia: How to get a job, how to survive and how to prosper", Gordon Research Seminar Biointerface Science, Les Diablerets, Switzerland May 19-20, 2012.
- (172) "Genetically encoded stimulus responsive polypeptide nanoparticles for drug delivery", Symposium OO: Structure-Function Design Strategies for Bio-enabled Materials Systems, 2012 MRS Spring Meeting, April 9 - April 13, 2012. San Francisco, California.
- (173)"Genetically engineered polypeptide nanoparticles for drug delivery", 13th Dresden Polymer Discussion and 8th Max Bergmann Symposium Molecular Bioengineering meets Polymer Science, Evangelische Akademie Meissen, Germany, April 1 - 4, 2012.
- (174)"Recent developments in Elastin-like polypeptides: New motifs and new self-assembling systems", Triangle MRSEC seminar, North Carolina Central University, BRITE, March 29, 2012.
- (175) "Genetically encoded stimulus responsive elastin-like polypeptides: Applications in drug delivery 243rd American Chemical Society National Meeting and Exposition, San Diego, March 25 29, 2012.
- (176) "Genetically engineered polypeptide nanoparticles for drug delivery", DECHEMA conference on Nanomaterials for Biomedical Technology, Frankfurt Am Main, Germany. March 6-7, 2012.
- (177) "Tunable self-assembly of Elastin-like polypeptides: New motifs and new self-assembling systems", Department of Chemical Engineering, North Carolina State University, Raleigh, NC, November 28, 2011.
- (178) "Drug delivery by self-assembled nanoparticles of stimulus responsive polypeptides", Indo-US joint symposium, Nanomedicine: Prospects And Challenges", Mumbai, India, November 14-15, 2011.
- (179) "Self-assembly of recombinant stimulus responsive polypeptides into nanoparticles", International Light Scattering Colloquium, Santa Barbara, October 301-November 1, 2011.
- (180) "Self-assembled stimulus-responsive polypeptide nanoparticles for drug delivery", SFB 569 Symposium: Hierarchical Structure Formation and Function of Organic-Inorganic Nanosystems, Annual Symposium, Ulm, Germany, October 10-11, 2011.
- (181)"Tuneable self-assembly of elastin-like polypeptides: New motifs and new self-assembling systems", Latin Ibero American Colloquium on Vascular Biology, Logrono, Spain, October 5-8, 2011.
- (182) "Scavenging nature for new biomaterials", Polymers in Medicine, Santa Rosa, September 2-6, 2011.

- (183) "Tuneable self-assembly of elastin-like polypeptides: New motifs and new self-assembling systems", Gordon Research Conference, Elastin and Elastic Fibers, University of New England Maine, July 24-28, 2011.
- (184)"Genetically Engineered Stimulus Responsive Polypeptides: Self-assembly and Applications", Institute for Physical Chemistry, University of Mainz, Germany, July 18, 2011.
- (185)"Polymer Nanostructures that Direct Biological Function", Department of Materials Science, Imperial College, London, UK, July 7, 201q.
- (186) "Bioinspired polymer brushes: A new challenge for surface analysis", UK Surface Analysis Forum, Sheffield, UK, July 6, 2011.
- (187) "Self-assembly of Elastin-like polypeptides", Department of Physical Chemistry, University of Wageningen, Wageningen, Netherlands, July 1, 2011.
- (188) "Polymer nanostructures that direct biological function", Department of Materials Science, Swiss Federal Institute for Technology, Zurich, Switzerland, June 27, 2011.
- (189)"Polymer nanostructures that direct biological function", Institute for Organic Chemistry III, University of Ulm, Ulm, Germany, June 8, 2011.
- (190)"Genetically engineered smart polypeptide nanoparticles for drug delivery", 2nd International Conference on Smart Polymer Systems, Mainz, Germany May 25-26, 2011.
- (191) "Recent developments in Elastin-like polypeptides: New motifs and new self-assembling systems", Department of Colloid Chemistry, Max Planck Institute of Colloids and Interfaces Potsdam, Germany, May 18, 2011.
- (192)"Application of polymer and DNA brushes in protein and DNA microarrays", European Materials Research Society, Spring meeting, Nice, France, May 8-11, 2011
- (193)"Polymer nanostructures that direct biological function", EMPA colloquium, Swiss Federal Laboratories for Materials Science and Technology, St. Gallen, Switzerland, May 5, 2011.
- (194)"Translational research in "nonfouling" polymer brushes: From research in the lab to applications in health and life sciences" Austrian Institute of Technology, Vienna, Austria, April 26, 2011.
- (195) "Recombinant polypeptide nanoparticles and synthetic polymer brushes for biomaterial applications" Clemson award for contributions to the literature, Society for Biomaterials, Orlando, USA, April 16, 2011.
- (196) "Polymer nanostructures that direct biological function", Golden Jubilee thematic lecture, Indian Institute of Technology, Delhi, April 6, 2011.
- (197) "Scavenging Nature for biointerface science", Light Metals to Biointerfaces: Marcus Textor at the ETH, Festschrift, March 11, 2011, ETH Zurich, Switzerland.
- (198) "Genetically engineered Elastin-like polypeptides: Applications in drug delivery and regenerative medicine", Facultad Medicina, Universidad de Alcalá de Henares, Spain, March 10, 2011.
- (199)"Protein-polymer nanoparticles for drug delivery", Dept. Pharmaceutics and Biopharmacy, University of Marburg, Marburg, Germany, March 2, 2011.
- (200) "Genetically engineered, self-assembled polypeptide nanoparticles for cancer drug delivery", 15th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 14-16, 2011.

- (201)"Protein-polymer conjugates for delivery of therapeutics", Dept. of Pharmacy, LMU Munich, February 1, 2011.
- (202) "Protein-polymer conjugates for delivery of therapeutics", Leibniz Institute of Polymer Research Dresden, Germany, January 20, 2011.
- (203) "Nanostructures of macromolecules to direct biological function", Institut Charles Sadron CNRS UPR 22 Strasbourg, France, January 11, 2011
- (204) "Nanostructures of macromolecules to direct biological function", School of Pharmacy, University of Nottingham, December 14, 2010.
- (205) "New molecular strategies to suppress noise and amplify signal in protein and DNA microarrays", IMTEK, University of Freiburg, Germany, November 22, 2010.
- (206) "Self-assembled Elastin polypeptide nanoparticles for drug Delivery", University of Bordeaux, Laboratoire de Chimie des Polymères Organiques (LCPO), Pessac. France, November 5, 2010.
- (207) "Recent developments in elastin-like polypeptides: New motifs and new self-assembling systems", European Elastin Conference, Maratea, Italy, June 28-August 1, 2010.
- (208) "Elastin-like polypeptide nanoparticles for cancer drug delivery", Michigan Nanotechnology Institute for Medicine and Biological Sciences, University of Michigan, Ann Arbor, June 21, 2010.
- (209) "Protein-polymer nanoparticles for delivery of therapeutics", Nano-Bio Collaborative 2010 Conference, University of South Florida, Tampa, Florida, March 11-12, 2010.
- (210) "New "on-chip" molecular strategies to suppress noise and amplify signal in protein and DNA microarrays", 42nd Annual Oak Ridge Conference, San Jose, CA, April 22-23, 2010.
- (211) "Self-assembling chimeric polypeptide-doxorubicin nanoparticles that abolish tumors after a single injection", PMSE Symposium, ACS National Spring Meeting, San Francisco, CA, March 21-25, 2010.
- (212)"Grant writing: An individual perspective", Graduate and Professional Women's Network, Duke University, Durham, NC, Feb. 16, 2010.
- (213)"Protein-polymer nanoparticles for delivery of therapeutics", Center for Cancer Nanotechnology Excellence, University of North Carolina, Chapel Hill, NC, Jan. 13, 2010.
- (214) "Design of nanoscale interfaces for optical biosensors", BiOS/SPIE San Francisco, Jan. 22-24, 2010.
- (215) "Nanoscale polymer brushes and polypeptide nanoparticles in vivo: Is research in biomedical nanotechnology relevant to environmental nanotechnology?" Center for Environmental Implications in Nanotechnology, Duke University, Durham, NC Jan. 21, 2010.
- (216) "New molecular strategies to suppress noise and amplify signal in protein and DNA microarrays" AVS 56th International Symposium & Exhibition, San Jose, CA, November 8-13, 2009
- (217) "Protein-polymer conjugates for delivery of therapeutics," The Delaware Valley Drug Metabolism Discussion Group, Langhorne, PA, November 3, 2009.
- (218) "Designing interfaces for optical biosensors," OSA's 93rd Annual Meeting Frontiers in Optics, San Jose, CA, October 11-15, 2009.
- (219) "Self-assembled elastin polypeptide nanoparticles for drug delivery", University of Minnesota Pharmaceutics Seminar, Minneapolis, MN, October 8, 2009

- (220) "Nanostructures of macromolecules to direct biological function", Spanish Polymer Congress, Valladolid, Spain, September 20-24, 2009.
- (221)"Spatio-temporal control of protein and cell interactions at surfaces", ESB Workshop 4: Design of Interfaces for Directing Biological Response, September 9, 2009, 22nd European Conference on Biomaterials, Lausanne, Switzerland, September 7-11, 2009
- (222) "Nanostructures of macromolecules to direct biological function", Rochester Nanomaterials Symposium, University of Rochester, Rochester, NY May 11-12, 2009.
- (223) "Overview of Research in the Chilkoti group" Triangle Soft Matter Workshop, NC State University, Raleigh, NC, May 8, 2009.
- (224) "Nanostructures of macromolecules to direct biological function", Department of Chemical Engineering, ASU, Tempe, AZ, April 24-25, 2009.
- (225)"Precision Engineered Control of Biomolecules at Interfaces by Polymer Brushes", Division of Polymer Chemistry, ACS National Meeting, Salt Lake City, UT, March 22-26, 2009.
- (226) "Self-assembly of elastin-like polypeptides: Synthesis and applications," Universidad de Valladolid, Spain, March 11, 2009.
- (227) "Nanostructures of macromolecules to direct biological function", Polymer Science and Engineering, University of Massachusetts, Amherst, MA, February 12, 2009.
- (228) "Self-assembled Elastin polypeptide nanoparticles for drug delivery", Purdue Cancer Center, Purdue University, West Lafayette, IN, February 9, 2009.
- (229) "Stimulus responsive allosteric biopolymer actuators triggered by ligand binding", MRS Symposium II: Bio-Inspired Transduction, Fundamentals, and Applications MRS Fall meeting, Boston, MA, December 1-5, 2008.
- (230) "Nanostructures of macromolecules to direct biological function" University of Kentucky, Department of Chemical Engineering, Lexingon, KY, November 12, 2008.
- (231) "Building, manipulating and treating with bioinspired nanostructures" Biointerface Science Gordon Research Conference, Aussois, France September 14-19, 2008.
- (232) "Patterning materials with biomolecules", Keynote Lecture: Symposium 37: Advances in surface patterning for protein and cell interactions, World Biomaterials Congress, Amsterdam, Netherlands, April 28-May 2, 2008.
- (233) "Bionanofabrication with biomolecules and hydrated polymers at surfaces", 5th Annual Conference on Foundations of Nanoscience: Self-Assembled Architectures and Devices (FNANO08), Snowbird, Utah, April 22-25, 2008
- (234) "Bionanofabrication with biomolecules and hydrated polymers at surfaces", Bio-Nano Manufacturing Grand Challenges for 2020 Workshop, Washington DC, April 14-15, 2008.
- (235)"Architecture of polymer-drug conjugate controls in vivo fate and efficacy", PMSE symposium, American Chemical Society, New Orleans, LA, April 6-10, 2008.
- (236) "Thermally responsive elastin biopolymers for drug delivery", POLY: Stimuli responsive materials, Spring national ACS meeting New Orleans, LA, April 6-10, 2008.
- (237) "Biointerface design for chip based assays", Symposium: Analytical Micro-instrumentation for Sustainable Natural Resources, Pittcon 2008, New Orleans, LA, March 2-6, 2008.

- (238) "Drug delivery by recombinant elastin polypeptides" Engineering Life Symposium, Dresden, Germany December 5-7, 2007.
- (239) "Elastin biopolymers for drug delivery", Symposium NN: Protein and Peptide Engineering for Therapeutic and Functional Materials, MRS Fall meeting, Boston, MA, Nov 25-30, 2007.
- (240) "Designing interfaces for optical biosensors", AVS, Seattle, October 14-19, 2007.
- (241)"Building with, manipulating, and interrogating biomolecules at the surface at nanoscale dimensions", Friday Nano Seminar series Berkeley Nanosciences and Nanoengineering Institute University of California, Berkeley, September 28, 2007.
- (242) "Elastin biopolymers for drug delivery", Polypeptide and Protein Materials Symposium: Division of Polymeric Materials: Science & Engineering, the 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
- (243) "Manipulating and quantifying biomolecules at engineered interfaces", ESF-EMBO Symposium Biological Surfaces And Interfaces, Sant Feliu de Guixols, Spain July 1-6, 2007.
- (244) "Out of the cell and onto a surface: Building with polymers and enzymes on surfaces with nanoscale precision", International Bunsen Discussion Meeting: Modern surface science: Out of the vacuum through the liquid into the cell, June 29-30, 2007 Heidelberg, Germany.
- (245)"Building with, manipulating, and interrogating biomolecules at the surface at nanoscale dimensions", Materials Science colloquium, Max Planck Institute for Metals Research, Stuttgart, Germany, June 18, 2007.
- (246) "Engineering the nano-bio interface with "smart" biopolymers", GE Global Research Center, Niskayuna, NY, May 9, 2007.
- (247) "Engineering the nano-bio interface with "smart" biopolymers", College of Engineering, University of Michigan, Ann Arbor, MI, May 2, 2007.
- (248) "Temperature triggered self-assembly of elastin like polypeptides", Annual Meeting of the Society for Biomaterials, Chicago, April 19-21, 2007.
- (249) "Genetically encodable polypeptides that respond to their environment", Department of Materials Science and Engineering, University of Florida, Gainesville, FL, February 13, 2007.
- (250) "Genetically encodable polypeptides that respond to their environment", School of Life Sciences, Ecole Polytechnique de Federale Lausanne, Switzerland, February 2, 2007.
- (251) "Tuning the nano-bio interface with smart polypeptides", Department of Materials Science and Engineering, Johns Hopkins University, Baltimore, MD, January 24, 2007.
- (252) "Biointerface design for heterogeneous assays", Center for HIV/AIDS Vaccine Immunology (CHAVI) Think Tank on "New technology for cellular mucosal assays", Durham, NC, January 11-12, 2007.
- (253) "Biointerfaces, smart polypeptides, and drug delivery", "From 2-D to 3-D to larger than life: A Symposium to celebrate Buddy Ratner's 60th birthday", Maui, Hawaii, December 14-17, 2006
- (254) "Design of interfaces for optical biosensors", AVS Annual Symposium, San Francisco, CA. Nov12-17, 2006.
- (255) "Targeted drug delivery to solid tumors by thermally responsive polypeptides", New Jersey Biomaterials Symposium, New Brunswick, NJ, Nov. 8-9, 2006.

- (256) "Design of biointerfaces for optical biosensors", Annual Symposium of the Fitzpatrick Institute for Photonics, Duke University, Sept. 27-28, 2006, Durham, NC.
- (257) "Fabrication with polymers and enzymes on surfaces with nanometer precision", Department of Chemical Engineering, Illinois Institute of Technology, September 25, 2006, Chicago, IL.
- (258) "Nanofabrication with polymers and enzymes", Dept. Chemistry, Duke University, Sept 7, 2006, Durham, NC.
- (259) "Targeted drug delivery to solid tumors by thermally responsive polypeptides", Flamel Technologies, July 10, 2006, Venissieux Cedex, France.
- (260) "Applications of Elastin-like polypeptides in medicine and biotechnology", 4th European Meeting on Elastin, Hôtel-Dieu, July 9-12, 2006, Lyon, France,
- (261) "Building with macromolecules on surfaces with nanometer precision" Dipartimento di Scienze e Tecnologie Chimiche e dei Biosistemi Università degli Studi di Siena, June 27, 206, Siena, Italy.
- (262) "Nanofabrication with polymers and enzymes", Duke-Mainz workshop, University of Mainz, May 11, 2006, Mainz, Germany.
- (263) "Engineering the nano-bio interface with "smart" polypeptides", Department of Biomedical Engineering, Rensselaer Polytechnic Institute, April 19, 2006, Troy, NY.
- (264) "Targeting cancer drugs to solid tumors by thermally responsive polypeptide carriers", 9th European Symposium on Controlled Drug Delivery April 5-7, 2006, Noordwijk van der Zee, Netherlands.
- (265) "Nanoparticle photonic sensors', National Center for Infectious Diseases, Centers for Disease Control, March 30, 2006, Atlanta, GA.
- (266) "Bionanofabrication with polymers and enzymes", Division of Colloid Science, American Chemical Society Spring 2006 meeting, March 26-30, Atlanta, GA.
- (267) "Engineering the nano-bio interface with "smart" polypeptides", Department of Biomedical Engineering, Georgia Institute of Technology, Feb. 22, 2006, Atlanta, GA.
- (268) "Engineering the nano-bio interface with "smart" polypeptides", School of Pharmaceutics, University of Wisconsin, Feb. 3, 2006, Madison, WI.
- (269) "ELP tags for protein purification and capture", Promega Corporation, Feb. 2, Madison, WI.
- (270) "Passive and active surfaces to control protein and cell interactions", Symposium K: Engineering Biointerfaces via Cell-Interactive Materials, November 30 December 1, 2005, MRS 2005 Fall meeting, Boston, MA.
- (271) "Building with macromolecules on surfaces with nanometer precision", Symposium M: Flexible and Printed Electronics, Photonics, and Biomaterials, MRS 2005 Fall Meeting, Nov 27-Dec. 1, 2005, Boston, MA.
- (272) "Nano- and micro-structures of polymers on surfaces to direct biological function", 2005 Fall BMES meeting Baltimore, September 28-October 1, 2005
- (273) "Targeting of cancer drugs to solid tumors by thermally responsive polymer carriers" in Cancer and Bioengineering II: Targeting and Therapy" session, 2005 Fall BMES meeting Baltimore, on September 28-October 1, 2005.
- (274) "Targeting of cancer drugs to solid tumors by thermally responsive polymer carriers", Third International Nanomedicine and Drug Delivery Symposium, Sept. 26,27, 2005, Baltimore, MD.

- (275) "Targeted drug delivery to solid tumors by thermally responsive polypeptides", BIOSURF VI Tissue-Surface Interaction, September 21-23, 2005, Ecole Polytechnique Fédérale Lausanne (EPFL), Aula Avenue du Cour 33 Lausanne, Switzerland.
- (276) "Engineering the nano-bio interface with "smart" biopolymers", Biological Chemistry Colloquium University of North Carolina, Chapel Hill, Sept 14, 2005.
- (277) "Passive and active surfaces to control protein and cell interactions", Division of Polymer Chemistry, 230th ACS National Meeting, Washington, DC, Aug 28-Sept 1, 2005.
- (278) "Passive and active surfaces to control protein and cell Interactions", AFOSR Workshop on Multifunctional Materials, August 24-27, 2005, Keystone, CO.
- (279) "Nanoparticle photonic sensors", CHI's 4th Annual Systems Integration in Biodefense, August 24-25, Washington, DC.
- (280) "Elastin actuators for targeted drug delivery", Polymers in Medicine and Biology 2005, Sonoma Doubletree Hotel, Rohnert Park Sonoma Valley, California, June 26-29, 2005
- (281) "Engineering the nano-bio interface with "smart" biopolymers", Biomedical Engineering Department seminar, Northwestern University, Evanston, IL, May 5, 2005.
- (282) "Engineering the nano-bio interface with "smart" biopolymers", University of Delaware, Newark, DE, April 20, 2005.
- (283) "Nano-to micro-scale structures of polymers that repel and attract proteins", MRS Spring meeting, San Francisco, March 28-April 1, 2005.
- (284) "Nano-to micro-scale structures of polymers that repel and attract proteins", 229th ACS National Meeting, San Diego, CA, March 13-17, 2005.
- (285)"Genetically encoded, stimulus responsive biopolymers: Applications in Biotechnology and Medicine, Program in Polymer Science and Technology Seminar Series, MIT, February 16, 2005.
- (286) "Engineering biomolecules and surfaces: Applications in medicine and biotechnology", Materials Science Department Seminar, ETH Zurich, January 18, 2005.
- (287) "Engineering the nano-bio interface with "smart" biopolymers", NanoBioengineering seminar, Department of Bioengineering, Rice University, Houston, January 12, 2005.
- (288) "Thermally Targeted Drug Delivery by Elastin Polypeptides", Therapeutics Development Seminar, Comprehensive Cancer Center, Duke University Medical Center, January 5, 2005.
- (289) "Building, manipulating, and interrogating biomolecules at the surface at nanoscale dimensions", Nanoscience Seminar, Paul Scherer Institute, Villigen, Switzerland, December 15, 2004.
- (290) "Genetically encoded, stimulus responsive biopolymers", MRS Symposium Z: Bio-Inspired and Bio-Derived Materials and Processes, MRS Fall meeting, Boston, MA, Nov 29 December 3, 2004.
- (291) "Building, manipulating, and interrogating biomolecules at the surface at nanoscale dimensions", Institute for Chemistry and Chemical Engineering, Swiss Federal Institute for Technology, Lausanne (EPFL) Switzerland, November 26, 2004.
- (292) "Building, manipulating, and interrogating biomolecules at the surface at nanoscale dimensions", National Center of Competence in Research (NCCR) Nanoscale Science' Winter, Semester 2004/2005 Colloquium Cycle, University of Basel, Switzerland, Nov. 22, 2004.

- (293) "Patterning surfaces with passive and active polymers", Materials Science Group seminar, Max-Planck Institut für Polymerforschung Mainz, Germany, October 15, 2004.
- (294) "Stimuli responsive, recombinant elastin-like polypeptides: From single molecule actuators to elastomeric hydrogels", Workshop on "From single molecules to supramolecular structures", Max-Planck Institut für Polymerforschung Mainz, Germany, October 13-15, 2004.
- (295) "Stimuli responsive, recombinant elastin-like polypeptides: From single molecule actuators to elastomeric hydrogels", at the Autumn School of the LCPPM, EPFL, Lausanne, "Molecular Interactions on a micro- and Nanometer scale, Rosenlaui, Switzerland, September 20-24, 2004,
- (296) "Applications of genetically encoded elastin biopolymers as biomolecular actuators", Institute for Chemistry and Chemical Engineering, Swiss Federal Institute for Technology, Lausanne (EPFL) Switzerland, September 22, 2004.
- (297) "Stimuli responsive, recombinant elastin-like polypeptides: From single molecule actuators to elastomeric hydrogels", Biomaterials Colloquium, ETH Zurich, August 20, 2004.
- (298) "Surface engineering strategies for control of protein and cell interactions with surfaces", University of Heidelberg, Institute for Physical Chemistry, June 25, 2004.
- (299) "Applications of genetically encoded elastin biopolymers as biomolecular actuators", Gordon Research Conference on Biopolymers, Salve Regina University, Newport, Rhode Island, June 14-19, 2004.
- (300) "Nanoscale optical biosensors, Fitzpatrick Center for Photonics, Pratt School of Engineering, Duke University, Durham, NC, Feb 24, 2004.
- (301) "Genetically engineered biopolymer scaffolds for cartilage repair', Indo-US Tissue Engineering and Stem Cell Technologies (TEST2004), Sri Chitra Tirunal Medical Center, Thiruvanthapuram, India, Feb 2-5, 2004.
- (302) "Surface engineering strategies for control of protein and cell interactions with surfaces", Biomaterials workshop, Royal Society of Chemistry, London, UK, Jan 15, 2004.
- (303) "Passive" and "active" nonfouling surfaces, Department of Chemistry, University of Sheffield, UK, Jan 14, 2004.
- (304) "Surface engineering strategies for control of protein and cell interactions with surfaces", Biosurf V, ETH Zurich, Zurich, Switzerland, Sept. 25-26, 2003.
- (305)"Passive and active nonfouling polymer grafts", 225th ACS National Meeting, New Orleans, LA, March 23-28, 2003.
- (306) "Elastin biopolymers: Applications in medicine and biotechnology", Department of Bioengineering, University of Pennsylvania, Philadelphia, March 19, 2003
- (307) "Nanoscale biosensors and actuators", Center for Nanotechnology, University of Washington, Seattle, WA, Feb. 4, 2003.
- (308) "Thermal targeting of cancer therapeutics by a recombinant elastin-like polypeptide", ACS Polymers in Medicine Symposium, Sonoma, CA, Nov 14-17, 2002.
- (309) "Elastin fusion proteins": University of Michigan, Department of Chemical Engineering seminar, Nov 14, 2002.
- (310) "Thermal targeting of cancer therapeutics by a recombinant elastin-like polypeptide", 2nd International Symposium on Tumor Targeted Delivery Systems, Rockville, MD, Sept 23-25, 2002.

- (311)"A colorimetric gold nanoparticle sensor to interrogate biomolecular interactions in real-time on a surface, Symposium on "New developments in Analytical SPR Spectroscopy", Analytical Chemistry Division, ACS Boston National Meeting, August 18-22, 2002.
- (312) "Passive and active nonfouling surfaces", UWEB 6th Summer Symposium on Non-Fouling Surfaces, University of Washington, Seattle, WA, July 31-August 2, 2002.
- (313)"Elastin biopolymers: Applications in medicine and biotechnology", Institute for Biomedical Engineering, Tokyo Women's Medical University, Tokyo, Japan, July 19, 2002.
- (314) "Stimuli responsive elastin biopolymers and gels", EUPOC, Gargnano, Italy, May 31- June 5, 2002.
- (315) "Elastin biopolymers: Applications in medicine and biotechnology", Department of Chemistry, Universita Roma "La Sapienza", Rome, Italy, June 17, 2002.
- (316) "Genetically encodable elastin biopolymers and fusion proteins: Applications in medicine and biotechnology," Biomolecular Sciences seminar series, Boston University, Boston, MA, March 25, 2002.
- (317) "Environmental response of elastin-like polypeptides", US Army Research Office Workshop on Biological processes for New and Innovative Engineering Systems and Applications, Research Triangle Park, NC, Feb 26-27, 2002.
- (318) "Biosensing and biomolecular patterning using nanoparticles", Symposium Y: Nanopatterning From Ultralarge-Scale Integration to Biotechnology, Materials Research Society Fall Meeting, Boston, MA, Nov 26-30, 2001.
- (319) "Desorption and processing of bioactive thin films", 15th International Vacuum Congress and AVS 48th International Symposium, San Francisco, October 28 November 2, 2001.
- (320) "Biomedical applications of genetically encoded elastin biopolymers", Symposium on Bioinspired Polymers, 222nd ACS National Meeting, Chicago, Illinois, August 26-30, 2001.
- (321)"Micro- and nano-patterning methods for biomaterials", Gordon Research Conference on Biomaterials, July 22-27, Holderness Academy, Holderness, NH, 2001.
- (322) "Targeted delivery of thermally responsive polymers to solid tumors by local hyperthermia", North American Hyperthermia Society and Radiation Research Society Annual Meeting, San Juan, Puerto Rico, April 21-25, 2001.
- (323) "Genetically encodable elastin biopolymers and fusion proteins: Applications in medicine and biotechnology," Department of Chemical Engineering, University of Washington, Seattle, WA, April 9, 2001.
- (324) "Purification of recombinant proteins by fusion with thermally responsive polypeptides", Cambridge Healthtech Institute's Fourth Annual Protein Expression Conference, Hilton McLean, Tysons Corner, McLean, VA, April 5-6, 2001.
- (325) "Genetically encodable elastin biopolymers and fusion proteins: Applications in medicine and biotechnology," Department of Bioengineering, University of Utah, Salt Lake City, UT, March 23, 2001.
- (326) "Patterning biomolecules in 2-dimensions", School of School of Pharmaceutical Sciences and The Pharmacy School, University of Nottingham, UK, March 16, 2001.
- (327) "Patterning biomolecules in 2-dimensions", Surface Science Colloquium, Department of Chemistry, University of Manchester Institute of Science and technology, Manchester, UK, March 15, 2001.

- (328) "Engineering biomolecules and surfaces: Applications in medicine and biotechnology", Department of Chemical Engineering, University of Florida, Gainesville, FL, February 26, 2001.
- (329) "Biomolecular engineering and surface science", Department of Chemical Engineering, University of California, Irvine, February 2, 2001.
- (330) "Engineering biomolecules and surfaces: Applications in medicine and biotechnology", Materials Science and Minerals Engineering Colloquium, University of California, Berkeley, CA, February 1, 2001.
- (331) "Biomolecular engineering and surface science", a joint seminar of the Departments of Medical Biochemistry/Genetics and Chemistry, Texas A&M University, College Station, TX, January 17, 2001.
- (332) "Genetically encodable elastin biopolymers and fusion proteins: Applications in medicine and biotechnology," Frontiers in Biomedical Research: A joint colloquium series of the University of Maine, Orono and the Jackson Laboratory, Bar Harbor, December 1, 2000
- (333) "Biomolecular surface science", Surface-Logix, Cambridge, MA, November 27, 2000.
- (334)"Elastin-based biomimetic actuators" ONR Biomolecular Science workshop, Coolfont, WVa, November 8-12, 2000.
- (335) "Genetically encodable elastin biopolymers and fusion proteins: Applications in medicine and biotechnology," Department of Chemistry, Emory University, Atlanta, GA, September 18, 2000.
- (336) "Engineering biomolecules and surfaces: Applications in medicine and biotechnology", Department of Chemical Engineering, North Carolina State University, Raleigh, NC, September 11, 2000.
- (337)"Elastin expression tags: A new tool for protein purification", Invitrogen Inc., San Diego, CA, August 10, 2000.
- (338) "Elastin expression tags: A new tool for protein purification", Dow Chemical Research Center, San Diego, CA Inc., August 9, 2000.
- (339) "Applications of elastin-like polypeptides and their fusion proteins", Center on Polymer Interfaces and Macromolecular Assemblies, Symposium on "Polymer Synthesis in the New Millenium, Stanford University, Palo Alto, CA, August 3-4, 2000.
- (340) "Elastin expression tags: A new tool for protein purification", Life Technologies Inc., Rockville, MD, July 19, 2000.
- (341) "Biomolecular immobilization and patterning for sensor fabrication", AIChE 2000 Annual Meeting, Atlanta, GA, March 5-9, 2000.
- (342)"Elastin fusion proteins: Applications in medicine and biotechnology," Department of Bioengineering, Clemson University, Clemson, SC, March 3, 2000.
- (343) "Elastin fusion proteins: Applications in medicine and biotechnology," Department of Chemistry, Duke University, Durham NC, December 10, 1999.
- (344)"Elastin fusion proteins: Applications in medicine and biotechnology," Department of Chemical Engineering, University of Connecticut, Storrs, November 16, 1999.
- (345) "Building switches in proteins by genetic circular permutation," Army Research Office Biosciences Workshop, Cashiers, NC, May 3-6, 1998.

- (346) "Protein Patterning" Biomedical Sensing: Understanding the Sensor-Tissue Interface, NASA/CECT Workshop, Dallas, TX, January 12-14, 1998.
- (347) "Engineering streptavidin: A molecular perspective," Surface Analysis '97 symposium, May 21-23, 1997, Albuquerque, NM.
- (348) "Engineering streptavidin," Department of Chemical Engineering, UCLA, Los Angeles, CA, August 1995.
- (349)"Engineering streptavidin," Department of Biomolecular Structure, University of Washington, Seattle, WA, July 1995.
- (350)"Engineering streptavidin," Department of Biomedical Engineering, Case Western Reserve University, Cleveland, OH, May 1995.
- (351)"Engineering streptavidin," Department of Chemical Engineering, University of Florida, Gainesville, FL. April 24, 1995.

Abstracts/Meeting presentations (partial list up to 2006)

- (1) W Liu, MR Dreher, MR Zalutsky, and A Chilkoti (2006) "Targeting solid tumors using a genetically engineered elastin-like polypeptide", The 4th Chinese Conference on Oncology. Tianjin, China. October 26 29, 2006.
- (2) SM Marinakos and **A Chilkoti** (2006) "Biomolecular detection based on the SPR of gold nanorods," *Gordon Research Conference on Biointerface Science*, Les Diablerets, Switzerland, October 22-27, 2006.
- (3) MR Dreher, W Liu, MW Dewhirst, and **A Chilkoti** (2006) "Mechanism of tumor accumulation for thermally responsive elastin-like polypeptide drug carriers", *Controlled Release Society*, Vienna, Austria. July 22 26, 2006.
- (4) AJ Simnick, MR Dreher, and A Chilkoti (2006) "Fluorescence characterization of thermosensitive elastin-like polypeptide block copolymer micelles", *Controlled Release Society*, Vienna, Austria. July 22 26, 2006.
- (5) MR Dreher, W Liu, MR Zalutsky, MW Dewhirst, and A Chilkoti (2006) "Targeted drug delivery to solid tumors using thermally responsive elastin-like polypeptide macromolecular drug carriers", *American Association for Cancer Research Annual Meeting*, Washington, DC. April 1 5, 2006.
- (6) AJ Simnick, MR Dreher, and A Chilkoti (2006) "Fluorescence characterization of thermosensitive block copolymer micelles". *33rd Annual Meeting and Exposition of the Controlled Release Society*, Vienna, Austria, July 2006.
- (7) AJ Simnick, and A Chilkoti (2006) "Fluorescence characterization of thermosensitive block copolymer micelles." *Annual Meeting of the Biomedical Engineering Society*, Chicago, Illinois, Oct. 2006.
- (8) DW Lim, K Trabbic-Carlson, and A Chilkoti (2006) "Cationic Elastin-like polypeptides and their thioredoxin fusions: Improved environmental sensitivity", *Biomedical Engineering Society (BMES)*, Oct.11-14, 2006, Chicago, IL, USA.
- (9) DW Lim, DL Nettles, LA Setton and A Chilkoti (2006) "In-situ crosslinked ELP block copolymers for tissue repair", *Society for Biomaterials (SFB)*, April 26-29, 2006, Pittsburgh, PA, USA.
- (10) N Abu-Lail, M Kaholek, A Valiaev, DW Lim, A Chilkoti, B LaMattina, R Clark and S Zauscher (2006) "Micro-cantilevers decorated with tethered stimulus-responsive polymer brushes and

polypeptides for actuation and sensing", *American Chemical Society (ACS), PMSE-466*, Mar. 26-30, 2006, Atlanta, GA, USA.

- (11) W-K Lee, S Chen, A Chilkoti, and S Zauscher (2006) "Fabrication of surface-confined gold nanowires by using electric field-induced AFM lithography and gold development," *ACS Spring meeting*, Atlanta, GA, March. 2006.
- (12) DL Nettles, MA Haider, A Chilkoti, and LA Setton (2006) "Neural network modeling of relationships between molecular features of chemically crosslinked elastin-like polypeptides and metabolism of encapsulated chondrocytes." *6th Symposium of the International Cartilage Repair Society*, San Diego, CA, In Review.
- (13) DL Nettles, NA Hanson, K Kitaoka, CM Flahiff, A Chilkoti, and LA Setton: (2006). "Chemically crosslinked elastin-like polypeptides as injectable hydrogels for articular cartilage repair in a goat model of an osteochondral defect." *6th Symposium of the International Cartilage Repair Society*, San Diego, CA.
- (14) M Miller, S Chen, **A Chilkoti**, and A Lazarides (2006) "Refractive index sensitivity of nanoparticle plasmon resonances: Theory and experiment", 6th annual meeting of Fitzpatrick Institute for *Photonics*, Durham, North Carolina, September, 2006.
- (15) SR Ong, K Trabbic-Carlson, D L Nettles, D W Lim, A Chilkoti, and L A Setton (2006) "Epitope tagging for tracking Elastin-like polypeptides", *Transactions of the Orthopaedic Research Society*, New Orleans, LA.
- (16) N A Hanson, D L Nettles, T P Vail, D W Lim, A Chilkoti, and LA Setton (2006) Mechanical characterization and in vitro chondrogenic evaluation of chemically crosslinked Elastin-like polypeptide hydrogels, *Transactions of the Orthopaedic Research Society*, New Orleans, LA.
- (17) D Chow, WK Lee, S Zauscher and A Chilkoti (2005) "Enzymatic nanofabrication: Step-wise synthesis of DNA scaffolds on nanopatterned oligonucleotide templates", AVS 52nd International Symposium October 30- November 4, 2005, Boston, MA, USA.
- (18) A Valiaev, DW Lim, S Schmidler A Chilkoti and S Zauscher (2005) "Protein-solvent interactions in surface-grafted ELPs measured by single molecule force spectroscopy", AVS 52nd International Symposium October 30- November 4, 2005, Boston, MA, USA.
- (19) G Nusz, A Curry, A Wax and A Chilkoti (2005) "Combinatorial characterization of geometric effects on the optical properties of gold nanostructures for biosensors optimization", AVS 52nd International Symposium October 30- November 4, 2005, Boston, MA, USA.
- (20) W-K Lee, S Chen, A Chilkoti, and S Zauscher (2005) "Fabrication of surface-confined gold nanowires by using electric field-induced AFM lithography and gold development", ACS Spring meeting, Atlanta, GA, March. 2006;
- (21) W-K Lee, S Chen, A Chilkoti, and S Zauscher (2005) "Fabrication of surface-confined gold nanowires by using electric field-induced AFM lithography and gold development", MRS Fall meeting, Boston, MA, December 2005.
- (22) W-K Lee, S Chen, A Chilkoti, and S Zauscher (2005) "Fabrication of surface-confined gold nanowires by using electric field-induced AFM lithography and gold development", AVS 52nd annual meeting, Boston, MA, November 2005.
- (23) DW Lim, D Nettles, J Gardner, LA Setton and A Chilkoti (2005) "In situ crosslinkable biomaterials of elastin-like polypeptide block copolymers, 2005 BMES Annual Fall Meeting.

- (24) H Betre W Liu, MR Zalutsky, A Chilkoti, VB Kraus, LA Setton (2005). Controlled intra-articular drug delivery system based on thermally responsive biopolymer, 2005 BMES Annual Fall Meeting.
- (25) C Williams, X Brown, H Ma, A Chilkoti and JY Wong (2005). Critical constraints: regaining vascular smooth muscle contractility via microtopographical cues 2005 BMES Annual Fall Meeting.
- (26) MR Dreher, W Liu, CR Michelich, MW Dewhirst, and A Chilkoti (2005). Improved solid tumor accumulation with an elastin-like polypeptide systemic thermal pump, 2005 BMES Annual Fall Meeting.
- (27) DC Chow MR Dreher, K Trabbic-Carlson, and A Chilkoti (2005). Improved expression of recombinant tandem-repeat peptide-based biopolymers by medium supplements, 2005 BMES Annual Fall Meeting.
- (28) K Trabbic-Carlson, D Lim, and A Chilkoti (2005). Molecular design of ELP tags for nonchromatographic purification of recombinant proteins, 2005 BMES Annual Fall Meeting.
- (29) K Trabbic-Carlson, B Kim, and A Chilkoti (2005). Effect of protein fusion on the phase behavior of thermally responsive elastin-like polypeptides, 2005 BMES Annual Fall Meeting.
- (30) S Chen and A Chilkoti (2005). Gold nanorod formation process: A high-resolution TEM study, Division of Colloid and Surface Chemistry, 230th ACS National Meeting, Washington, DC, Aug 28-Sept 1, 2005.
- (31) DC Chow, WK Lee, S Zauscher, and A Chilkoti (2005). Rapid fabrication of DNA nanostructures by enzymatic reactions, Symposium on Nano-scale Science and Technology in Biomolecular Catalysis, American Chemical Society 230th Annual Meeting, Washington DC, Aug 28-Sept 1, 2005.
- (32) WK Lee, H Ma, A Chilkoti, S Zauscher (2005) Fabrication of patterned biomolecular and bioconjugated polymeric nanostructures using scanning probe lithography First Annual Scientific Meeting of the American Academy of Nanomedicine (AANM), Baltimore, MD, August 15-16, 2005.
- (33) A Valiaev, N Abu-Lail, D Lim, A Chilkoti, and S Zauscher (2005) Stimulus-responsive elastin-like polypetides as coatings for microcantilevers: applications for sensing and actuation, American Chemical Society, 230th ACS National Meeting, Washington, DC, Aug. 28 – Sept. 1, 2005.
- (34) A Valiaev, A Chilkoti, S Schmidler, and S Zauscher (2005) New statistical methods for the quantitative analysis of single-molecule force spectroscopy data. International Symposium on Biointerface Science, New Bern, NC, May 12-14, 2005.
- (35) A Valiaev, NI Abu-Lail, D-W Lim, A Chilkoti and S Zauscher. Stimulus-responsive elastin-like polypeptides end-grafted to micro-cantilevers, MRS Fall Meeting, Boston, MA, Nov. 27 – Dec. 1, 2005.
- (36) W-K Lee, H Ma, A Chilkoti and S Zauscher. Fabrication of patterned biomolecular and bioconjugated polymeric nanostructures using scanning probe lithography. MRS Fall Meeting, Boston, MA, Nov. 27 Dec. 1, 2005.
- (37) A Valiaev, D-W Lim, A Chilkoti, S Schmidler and S Zauscher. Polypeptide-solvent interactions measured by single molecule force spectroscopy. MRS Fall Meeting, Boston, MA, Nov. 27 – Dec. 1, 2005.

- (38) A Valiaev, A Chilkoti, S Zauscher and S Schmidler. A new statistical approach for the quantitative analysis of single-molecule force spectroscopy data. MRS Fall Meeting, Boston, MA, Nov. 27 Dec. 1, 2005.
- (39) B Kim and A Chilkoti (2005) Calcium triggered control of nanoparticle formation in a calmodulinelastin fusion, 230th ACS National Meeting, Washington, DC, Aug 28-Sept 1, 2005.
- (40) DY Furgeson and A Chilkoti (2005). Spacer arm effects on release of doxorubicin from an Elastinlike polypeptide-doxorubicin conjugate. 32nd Annual Meeting & Exposition of the Controlled Release Society, Miami Beach, Florida. June 18 - 22, 2005.
- (41) MR Dreher, W Liu, CR Michelich, MW Dewhirst, A Chilkoti (2005). The enhanced permeability and retention effect: influence of molecular weight on permeability, accumulation and penetration. 32nd Annual Meeting & Exposition of the Controlled Release Society, Miami Beach, Florida. June 18 - 22, 2005.
- (42) W Liu, MR Dreher, DY Furgeson, M Zalutsky, A Chilkoti (2005). Radiolabeling and biodistribution of Elastin-like polypeptide in response to tumor hyperthermia, 32nd Annual Meeting & Exposition of the Controlled Release Society, Miami Beach, Florida. June 18 - 22, 2005.
- (43) MA Haider, DL Nettles, K Trabbic-Carlson, A Chilkoti, LA Setton (2005). Predictive modeling of polypeptide hydrogel mechanical properties for cartilage repair using artificial neural networks, Summer Bioengineering Conference, Aspen, CO, 2005.
- (44) MR Dreher, K Fischer, M Schmidt, A Chilkoti (2004) Characterization of elastin-like polypeptide block copolymers, *MRS Symposium Z: Bio-Inspired and Bio-Derived Materials and Processes*, MRS Fall meeting, Boston, MA, November 29 December 3, 2004.
- (45) A Curry, G Nusz, A Chilkoti, A Wax (2004) Optical characterization of gold nanoparticles for biosensor Applications, *BMES 2004 Annual Fall Meeting*.
- (46) G. Nusz, A Chilkoti (2004) Single nanoparticle detection of biological molecules via dark field microscopy, *51st AVS International Symposium*, Anaheim, CA.
- (47) H Ma, A Chilkoti (2004) Nonfouling microstructures on hydroxylated substrates via chemical vapor deposition and surface initiated atom transfer radical polymerization, 51st AVS International Symposium, Anaheim, CA, November 13-19, 2004.
- (48) SM. Marinakos, N Nath, A Chilkoti (2004) Label-free biosensor based on the surface plasmon resonance of gold nanoparticles, 51st AVS International Symposium, Anaheim, CA.
- (49) A Valiaev, NAbu-Lail, D-W Lim, A Chilkoti, S Zauscher, RL Clark (2004): Micro-cantilevers for detecting phase transitions and protein binding in Elastin-like polypeptides, Biomedical Engineering Society (BMES), Oct. 13-16, 2004, Philadelphia, PA, USA.
- (50) S Prohaska, MR Dreher, MW Dewhirst, A Chilkoti, AR Pries, M Westerhoff, and AJ Cornelissen, 3-D Reconstruction of tumor vascular networks. Annual Meeting of the German Society for Microcirculation and Vascular Biology. Berlin, Germany. Oct 7-9, 2004.
- (51) MR Dreher, W Liu, C Michelich, M Dewhirst, and A. Chilkoti. Increased tumor extravasation with an elastin-like polypeptide systemic thermal pump. *EORTC-NCI-AACR Molecular Targets and Cancer Therapeutics*, Geneva, Switzerland, September 28- October 1, 2004.
- (52) MR Dreher, W Liu, CR Michelich, MW Dewhirst, and A Chilkoti. Increased tumor extravasation with an elastin-like polypeptide systemic thermal pump. Gordon Research Conference: Drug

Carriers in Medicine and Biology. Big Sky, Montana. Sept 5-10, 2004. (Selected podium presentation).

- (53) DY Furgeson, and A Chilkoti. Elastin-like polypeptide delivery of doxorubicin through pHsensitive linkers. Gordon Research Conference: Drug Carriers in Medicine and Biology. Big Sky, Montana. Sept 5-10, 2004.
- (54) MR Dreher, W Liu, C Michelich, M Dewhirst, and A. Chilkoti (2004) Increased tumor extravasation with an elastin-like polypeptide systemic thermal pump. *International Congress on Hyperthermic Oncology*. St. Louis, Missouri.
- (55) CL Gilchrist, ML Upton, JT Glaw, H Ma, J Hyun, A Chilkoti and LA Setton (2004) Micropatterned substrates control and maintain regional differences in meniscal cell cytoarchitecture in vitro. *Transactions of the Orthopaedic Research Society*, 29:739.
- (56) H Betre, SR Ong, HA Awad, F Guilak, A Chilkoti and LA Setton (2004) Genetically engineered elastin-like polypeptide promotes chondrocytic differentiation of human adipose tissue-derived adult stem cells in vitro. *Transactions of the Orthopaedic Research Society*, San Francisco, CA. 29: 158.
- (57) H Betre, SR Ong, F Guilak, A Chilkoti and LA Setton. Genetically engineered elastin-like polypeptide promotes chondrogenesis of human adipose tissue-derived adult stromal cells in the absence of TGF-beta1 and dexamethasone in vitro. 6th Annual Meeting of the Tissue Engineering Society International, Orlando, FL, paper 43, 2003.
- (58) Knight MK, Setton LA and A Chilkoti. Enzymatically crosslinked elastin-like polypeptide gels for cartilage tissue repair. 6th Annual Meeting of the Tissue Engineering Society International, Orlando, FL, Session 1, 2003.
- (59) Betre H, Ong SR, Awad HA, Guilak F, Chilkoti, A and Setton LA (2004): Genetically engineered elastin-like polypeptide promotes chondrocytic differentiation of human adipose tissue-derived adult stem cells in vitro. Transactions of the Orthopaedic Research Society 29:158.
- (60) Betre H, Ong SR, Guilak F, Chilkoti, A and Setton LA (2004): Elastin-like polypeptide hydrogels promote chondrocyte phenotype in human adipose tissue-derived adult stem cells. Annual Meeting of the International Cartilage Repair Society, p.
- (61) A Valiaev, D-W Lim, T Oas, RL Clark, **A Chilkoti** and S Zauscher. Force-induced proline cis-trans isomerization in elastin-like polypeptides. Biophysical Society 49th Annual Meeting, Long Beach, California, Feb. 12-16, 2004.
- (62) MK Knight, LA Setton and A Chilkoti. Genetically engineered, enzymatically crosslinked elastinlike polypeptide gels for cartilage tissue repair. 2003 Summer Bioengineering Conference pp.1061-1062.
- (63) N Nath, A Chilkoti (2003): Real-time, label free biosensing using immobilized gold nanoparticles: influence of nanoparticle size on sensor performance, 50th AVS International Symposium, Baltimore, MD.
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- (71) N Nath and **A Chilkoti**. A gold nanoparticle sensor to interrogate biomolecular interactions in realtime on a surface, 49th Annual Meeting of the American Vacuum Society, November 4-8 2002, Denver, CO.
- (72) M Dreher, D Raucher, A Balu and S Ludeman, and A Chilkoti. Elastin-like polypeptide doxorubicin conjugates for cancer therapy, 2002 BMES Annual Fall Meeting, October 23-26, 2002, Houston, TX.
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- (74) H Betre, A Chilkoti and LA Setton. A two-step chondrocyte recovery system based on thermally sensitive elastin-like polypeptide scaffolds for cartilage tissue engineering, 2002 BMES Annual Fall Meeting, October 23-26, 2002, Houston, TX.
- (75) M Dreher, D Raucher, A Balu and S Ludeman, and A Chilkoti. Elastin-like polypeptide doxorubicin conjugates for cancer therapy, 29th Annual Meeting of the Controlled Release Society, Seoul, Korea, July 22-25, 2002.
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- (79) W Frey, DE Meyer, and A Chilkoti. Dynamic functionalization of patterned surfaces by an environmentally responsive fusion protein, *2001 BMES Annual Fall Meeting*, October 5-7, 2001, Durham, NC.
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- (82) D Raucher and A Chilkoti. Enhanced uptake of a thermally responsive polypeptide carrier by tumor cells in response to its hyperthermia mediated phase transition, *2001 BMES Annual Fall Meeting*, October 5-7, 2001, Durham, NC.
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- (94) DE Meyer, GH Kong, MW Dewhirst, MR Zalutsky, and A Chilkoti. Elastin-like polypeptides as thermally targeted drug carriers, *MRS Fall 2000 Meeting*, Boston, November 27 December 1, 2000.
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- (108) DE Meyer, GH Kong, MW Dewhirst, C Foulon, MR Zalutsky, and A Chilkoti. A genetically engineered biopolymer conjugate for thermal targeting of anticancer therapeutics, *ACS Spring 2000 Meeting*, San Francisco, March 26-30, 2000.
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- (114) DE Meyer and A Chilkoti. A genetically-engineered polypeptide carrier for thermal targeting of therapeutics. *Symposium: Drug Delivery II American Institute of Chemical Engineers Fall Annual Meeting*, November 1-5, 1999, Dallas, TX.
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- (121) DE Meyer and **A Chilkoti.** A genetically-engineered phase-separable biopolymer as a molecular handle for recombinant proteins. *Society for Biomaterials Annual Meeting*, April 27-May 2 1999, Providence RI.
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- (133)BD Ratner, GP Lopez, A Chilkoti, DG Castner, and D Briggs. Polymer analysis: Combined techniques. 8th International Conference on Secondary Ion Mass Spectrometry (SIMS VIII), Amsterdam, Netherlands, September 15-20, 1991.
- (134) A Chilkoti, BD Ratner, and D Briggs (1991) Structural elucidation of plasma-deposited films prepared from oxygen-containing precursors. *Trans. Soc. Biomat.*, 14.
- (135) BD Ratner, A Chilkoti, SI Ertel, and GP Lopez. New biomaterials by RF-plasma deposition of thin organic films. *Abstracts for the Second International Conference on Plasma Surface Engineering*, Garmisch Partenkirchen, FRG, Sept 10-14, 1990.
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- (141) A Chilkoti, DG Castner, and BD Ratner. XPS and SSIMS of deuterated and methyl-substituted polystyrene. *Abstracts for the American Vacuum Society Pacific Northwest Chapter Symposium*, Seattle, April 8, 1989.
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Current Support

- (1) Test for Diagnosis, Prognosis and Serology of COVID19; NIH R01AI159992 (PI: Chilkoti); 06/03/2021-05/31/2024; \$1,453,632 total costs
- (2) Injectable PEG-like Conjugate for Sustained Delivery of a Peptide Drug for Type 2 Diabetes Treatment; NIH R01DK124276 (PI: Chilkoti); 12/10/2020-11/30/2024; \$1,898,595 total costs
- (3) A Fully Integrated Point-Of-Care Test for Ebola; NIH R01AI150888 (PI: Chilkoti); 09/01/2020-08/31/2025; \$3,387,426 total costs
- (4) Uncovering and Applying the Design Principles of Multiphasic Natural and Synthetic Organelles, AFOSR MURI FA9550-20-1-0241 (SUB0000436) (PI: Brangwynne); 09/01/2020-08/31/2025; \$2,021,435 total costs
- (5) *Detection of Operationally Relevant Biomarkers;* Medical CBRN Defense Consortium (PI: Chilkoti); 03/30/2020-06/30/2024; \$13,792,043 total costs
- (6) *Point-of-care Cellular and Molecular Pathology of Breast Tumors on a Cell Phone;* NIH R01CA248491 (PI: Chilkoti & Hwang); 3/1/20-2/28/25; 2,990,794 total costs
- (7) Rapid Diagnosis and Quantification of HIV by Direct Capture, Labelling and Detection of Individual Virions; NIH R61AI140485 (PI: Lynch); 08/01/2019-07/31/2022; \$1,322,930 total costs
- (8) Genetically Encoded Smart Biohybrid Materials; NIH MIRA-R35GM127042 (PI: Chilkoti); 09/01/2018-08/31/2023; \$1,924,577 total costs
- (9) Smartphone Enabled Point-of-Care Detection of Serum Markers of Liver Cancer; NIH UG3CA211232; (PI Chilkoti); 06/01/2017-06/30/2022; \$2,123,749 total costs
- (10) Plasmonically Enhanced Point-of-care Detection of Cardiac Biomarkers by a Smart Phone; NIH R01 HL144928 (PI: Mikkelsen); 02/01/2019-01/31/2024; \$1,376,977 total costs
- (11) *Printed Electronic Biosensors for Point-of-Care Testing of Cardiovascular Biomarkers;* NIH R01 HL146849 (PI: Franklin); 04/15/2019-03/31/2024; \$2,637,177 total costs

Past Support

- (1) *PURE D4 Point-of-Care Test;* Defence Academy of the United Kingdom (PI: Chilkoti); 131,417 total costs
- (2) Generation of Antibodies Specific for Optimal Non-HRP2 Malaria Diagnostic Antigens; NIH R21AI144749 (PI: Gunn);\$237,672 total costs
- (3) *A Point-of-Injury Screening Assay for Tactical Damage Control Resuscitation;* USAMRMC (PI: Chilkoti); \$192,651 (DC per year)
- (4) Development of a Novel Point-of-Care prognostic Test of Neural Injury for Dogs; Morris Animal Foundation (NCSU/Prime); 9/1/2019-9/1/2021; \$61,742 total costs
- (5) Collaborative Research: High throughput Exploration of Sequence Space of Peptide Polymers that Exhibit Aqueous Demixing Phase Behavior; NSF-DMREF1729671 (PI: Chilkoti) \$123,343 (DC/year for Chilkoti)

- (6) *Point of Care Testing to Improve Monitoring LVAD Patients;* NIH R21HL141028 (PI: Chilkoti) \$117,571 (DC for Chilkoti)
- (7) A Novel Sustained-Release Immunotoxin for Treatment of Glioblastoma Multiforme; NIH; R21-CA237705 (PI: Chilkoti); \$150,000 (DC/year 1) \$125,000 (DC/year 2)
- (8) One-Pot Synthesis of Multicomponent Protein-Carbohydrate Antigens; Pfizer, Inc. (PI: Chilkoti; \$2,100,000 total cost
- (9) *RAPID: Combined Antigen and Serology Rapid Test for COVID-19*; NSF CBET2029361 (PI: Chilkoti); \$ 119,337 total cost
- (10) One-Pot Synthesis of Multicomponent Protein-Carbohydrate Antigens; Pfizer, Inc.; (PI: Chilkoti) \$168,411 (TC).
- (11) In situ Enzymatic Synthesis of Aptamer Targeted Polynucleotide Drug Nanoparticles for Cancer Therapy; NIH R01-EB026590 (PI: Zauscher); \$125,000 (DC/year)
- (12) Magnetically directed single cell transcriptome analysis; NIH 1R01GM123542 (PI: Murdoch); \$44,508 (TC year 1)
- (13) Smartphone Enabled Point-of-care Diagnostics for Operationally Significant Pathogens; (PI: Chilkoti); USAMRAA; \$712,497 (TC)
- (14) Delivery of Cis-Platinate by Recombinant Polypeptide Nanoparticles; Dr. Reddy's Laboratories; (PI: Chilkoti); \$159,000 (TC)
- (15) Delivery of Paclitaxel by Recombinant Polypeptide Nanoparticles; Dr. Reddy's Laboratories; (PI: Chilkoti); \$393,000 (TC)
- (16) Supramolecular Materials by Nucleic Acid Block Copolymer Self-assembly; NSF BMR1411126, (PI: Zauscher); \$102,384 (Annual DC).
- (17) Elastin Fusion Proteins; NIH/NIGMS R01-GM061232-09 (PI: Chilkoti); \$209,349 (Annual DC).
- (18) Center for Environmental Implications for Nanotechnology; NSF-EF-0830093 (PI: Wiesner); 30,060 (Annual DC).
- (19) *Treating Melanoma with a Molecularly Engineered, Long Circulating Immunotoxin;* NIH; (PI: Chilkoti); \$437,250 (TC).
- (20) Self-Assembled Microporous Networks for Cell Culture, EMD Millipore; (PI: Chilkoti); \$623,019 (TC)
- (21) Site-Specific Growth of Stealth Polymer from Peptide Therapeutics; NIH/NIDDK R01-DK092665 (PI: Chilkoti); \$215,405 (Annual DC).
- (22) Protease Operated Depot for Delivery of GLP-1; (PI: Chilkoti); NIH/NIDDK R01-DK091789; \$217,500 (Annual DC).
- (23) Local Radionuclide Delivery to Solid Tumors by Injectable Biopolymer; NIH/NCI R01-CA138784 (PI: Liu); \$201,275 (Annual DC).
- (24) Surface-Initiated Enzymatic Polymerization of DNA Nanostructures for Highly Amplified Sensing; NSF CBET-1033621 (PI: Chilkoti); \$82,515 (Annual DC). In NCE.
- (25) 2-D Diffusion Assay on Polymer Brush for POC Cardiac Infarction Diagnosis; NIH/NHLBI R21HL115410 (PI: Chilkoti); \$120,000 (Annual DC). In NCE.

- (26) *Thermally Triggered Multivalent Targeting of Tumors;* NIH/NIBIB R01-EB007205 (PI: Chilkoti); \$212,175 (annual DC).
- (27) *Thermally Targeted Drug Delivery by Elastin Biopolymers;* NIH/NIBIB R01-EB000188 (PI: Chilkoti); \$218,250 (Annual DC).
- (28) *Mechanical Stimulation of IVD Cells;* R01AR047442 (PI: Setton); NIH/NIAMS; *\$202,500* (annual DC).
- (29) 2012 Bioinspired Materials GRC Conference; DMR-1205839 (PI: Chilkoti); NSF; \$7680 (Annual DC).
- (30) Detection of Biomolecules by Nanoscale Plasmon Ruler; NIH/NIBIB R21-EB009862 (PI: Chilkoti); \$150,000 (Annual DC).
- (31) Delivery of Peptide Therapeutics by Molecular Release Depots NIH/NIBIB; R21-EB009904 (PI: Chilkoti); \$120,150 (Annual DC).
- (32) Administrative Supplement: Elastin Fusion Proteins; R01-GM061232 (Chilkoti); NIH/NIGMS ARRA; \$134,951 (Annual DC).
- (33) *Platform Development 2;* DARPA (Ginsburg, Chilkoti Co-I); N66001-09-C-2082; \$250,000 (Annual DC).
- (34) *Intravital Point-Scanning Confocal Microscope;* 1S10RR-27867 (PI: Chilkoti); NIH; \$499,775 (DC).
- (35) *NIRT: Hierarchical Bionanomanufacturing;* DMI 0609265 (Clark, PI; Chilkoti Co-PI); National Science Foundation; \$213,080 (Annual DC).
- (36) *Nanophotonics for Select Agent Detection*; <u>Centers for Disease Control/NCID</u>; R01 CI-00097; total costs \$3,204,085; 9/15/2003- 9/14/2008 (**PI: Chilkoti**).
- (37) The Architecture of Elastin Biopolymers: Preclinical Biodistribution, Pharmacokinetics, and Antitumor Activity; Phase Bioscience; \$161,430; 3/1/07-2/28/08 (PI: Chilkoti)
- (38) Acquisition of a Cryo-Transmission Electron Microscope for Shared Use of NC Researchers, North Carolina Biotechnology Center, total costs \$250,000, 7/1/06-6/30/07 (PI: Chilkoti).
- (39) *Graduate Engineering Program in Biologically Inspired Materials;* <u>NSF: IGERT;</u> 7/1/02-6/30/07; total costs \$2,661,875 (**PI: Clark**).
- (40) Intra-Articular Drug Delivery by Elastin-Like Polypeptides, Coulter Foundation Translational Research Award, total costs \$120,000, 5/01/2006-11/01/2007 (PI: Setton).
- (41) *Toxicity and Immunogenicity of Elastin-like Polypeptides*, Coulter Foundation Translational Research Award, total costs \$120,000, 5/01/06-4/30/07 (PI: Chilkoti).
- (42) Enhanced Molecular Imaging of Brain Tumors by Tissue Transglutaminase Mediated Crosslinking of Polypeptide-Contrast Agent Conjugates, Chandran Research Awards in Molecular Imaging in Neuro-Oncology, total costs \$25,000, 5/01/06 4/30/07 (PI: Chilkoti).
- (43) *Fabrication of Biomolecular and Polymeric Nanostructures by Proximal Probes*; <u>NSF: NIRT</u>; total costs \$1,200,000; 4/1/02-3/31/06 (PI: Clark, **co-PI: Chilkoti**).
- (44) Surface Modification of PDMS for Microfluidics; <u>GSK Inc.</u>; total costs \$100,000; 12/01/01-11/30/04 (**PI: Chilkoti**).

- (45) Acquisition of an Imaging XPS for Materials Research and Training, <u>NSF</u>; total costs \$454,999; 8/1/02-7/31/04 (**PI: Chilkoti**).
- (46) Enhancements to Laser Scanning Fluorescence Microscope for Drug Delivery Research, Lord Foundation, total costs \$15,000; 5/1/02 4/30/03 (PI: Chilkoti).
- (47) Elastin Biopolymers for Micro- and Nanoactuation, Office of Naval Research; 1/1/00-12/30/02; total costs \$333,000 (PI: Chilkoti).
- (48) Radiolabeled Antivascular Targeting Agents, <u>NIH</u>; R21-CA87498-01, 8/16/00 8/15/02; total costs \$222,908 (**PI: Hauck**).
- (49) *CAREER: Smart Protein-Polymer Conjugates for Biotechnology;* <u>NSF</u> BES-9733009; total costs \$310,000; 4/1/98-3/31/02 (**PI: Chilkoti**).
- (50) *Targeted Delivery of an alpha-Emitter to Solid Tumors by Thermally-Responsive Polymers;* <u>Targon Inc.</u>; total costs \$153,828; 12/1/98-11/31/01 (**PI:Chilkoti**).
- (51) *Elastin Nanobiosensors*; <u>NSF 99-109</u>: "Exploratory Research on Biosystems at the Nanoscale"; 3/1/00-2/28/02; total costs \$100,000 (**PI: Chilkoti**).
- (52) Targeted Delivery of Radionuclides to Tumors by Genetically-Engineered, Thermally-Responsive Biopolymers; Whitaker Foundation; total costs \$195,313; 9/1/98-8/31/01 (PI: Chilkoti).
- (53) Genetically Engineered Elastin-like Polypeptides for Cartilage Repair; North Carolina Biotechnology Center; 7/1/00-12/31/01; total costs \$55,000 (PI: Setton).
- (54) Laser Scanning Confocal Microscopy for Biotechnology Research; North Carolina Biotechnology Center; 2/15/00 - 1/14/01; \$125,000 (PI: Yuan; co-PI: Chilkoti).
- (55) Protein and Peptide Micropatterning on Polymers, <u>Becton-Dickinson Inc.</u>, 3/25/00 3/24/01 total costs: \$50,000 (**PI: Chilkoti**).
- (56) *Extrinsic Modulation of Protein Ligand Recognition;* <u>NIH/NIGMS</u> R21 GM57373-01; total costs \$210,000; 4/1/98-3/31/00 (**PI: Chilkoti**).
- (57) Isothermal Titration Calorimetry for Biotechnology Research; North Carolina Biotechnology Center 9803-IDG-003; total costs \$56,463; 1/1/98-12/31/98 (PI: Chilkoti).
- (58) *Isothermal Titration Calorimetry for Biology Research;* <u>NSF</u> DBI-9729490; total costs \$48,475; 4/1/98-3/31/99 (**PI: Chilkoti**).
- (59) Protein Nanopatterning by Genetically Engineered, Self-Assembled S-Layer Templates; North Carolina Biotechnology Center 9705-ARG-0026; total costs \$40,000; 09/01/97-3/1/99 (PI: Chilkoti).
- (60) *High School Outreach Program in Engineering;* Lord Foundation of North Carolina; \$22,000 (PI: Chilkoti); 4/1/98-3/31/00.
- (61) Combined Atomic Force and Total Internal Reflection Fluorescence Microscopy for Biological Research; NSF DBI-9604785; total costs \$132,227; 2/15/97-1/31/99 (PI: Chilkoti).
- (62) Combined Atomic Force and Total Internal Reflection Fluorescence Microscopy for Biotechnology Research; North Carolina Biotechnology Center 9703-IDG-002; total costs \$66,114; 2/15/97-2/15/98 (PI: Chilkoti).

- (63) Modulation of Protein-Ligand Recognition by Genetic Incorporation of an Environmentally-Sensitive Peptide Switch; North Carolina Biotechnology Center 9605-ARG-0050; total costs \$40,000; 09/01/96-2/28/98 (PI: Chilkoti).
- (64) *Matching Funds for NSF ILI Proposal: Undergraduate Laboratory in Biomedical* Engineering; Lord Foundation of North Carolina; \$75,000 (PI: Truskey).

Senior Research Scientists

- (1) Angus Hucknall, Ph.D. (BME), Duke University, 2015-present.
- (2) Soumen Saha Ph. D. (Chemistry) IICT Hyderabad, 2016-present
- (3) Cassio Fontes, Ph.D. (BME), Duke University, 2020-present

Current Post-doctoral Fellows

- (1) Sonal Deshpande, Ph.D. (Biomedical Engineering), Indian Institute of Technology, Delhi, 2018present
- (2) Sarah Kim, Ph.D. (Biophysics) Johns Hopkins University, 2019-present
- (3) Yifan Dai, Ph.D. (Chemical Engineering), Case Western Reserve University, 2020-present
- (4) Yulia Shmidov Ph.D. (Bioengineering), Technion University, Israel, 2021-present

Past Post-doctoral Fellows/Visiting Scientists Mentored

- (1) Ali Eghtesadi, Ph.D. (Chemistry), University of Akron, 2018-2021
- (2) Hamed Vahabi, Ph.D. (Biomedical Engineering) Colorado State University, 2019-2021
- (3) Cristina Fernandez Ph.D. (Biomedical Engineering), Duke University, 2017-2019
- (4) Renpeng Gu, Ph.D. (Mechanical Engineering and Materials Science) Duke University, 2018-2019
- (5) Davoud Mozdehi Ph.D. (Chemistry), UC Irvine, 2015-2018
- (6) Jayanta Bhattacharyya, Ph.D. (Chemistry), Jadavpur University, 2012-2017.
- (7) Joshua Beaver, Ph.D. (Chemistry), UNC Chapel Hill, 2014-2016.
- (8) Jing Wang, Ph.D. (Biophysics), CAS Institute of Biophysics, Peking, China, 2012-2016.
- (9) Yan Pang, Ph.D. (Chemistry), Shanghai Jiao tong University, Shanghai, China, 2014-2015.
- (10) Somnath Bhattacharjee Ph.D. (Chemistry), Michigan State University, 2012-2015.
- (11) Jinyao Liu, Ph.D. (Chemistry), Shanghai Jiao tong University, Shanghai, China, 2013-2015.
- (12) Maréva Fevre, Ph.D. (Chemistry), University of Bordeaux, Bordeaux, France, 2013-2014.
- (13) Ryan Hill, Ph.D. (Chemistry) Univ. Texas, Austin, 2007-2013.
- (14) Hua Yu, Ph.D. (Chemistry), University of Wisconsin, 2008-2012.
- (15) Mingnan Chen, Ph.D. (Pharmaceutics), University of Connecticut, 2007-2011.
- (16) Srinath Rangarajan, Ph.D. (Chemical Engineering), University of Utah, 2008-2011.
- (17) Weiping Gao, Ph.D. (Chemistry) Peking University, China, 2007-2011.

- (18) Daisuke Asai, Ph.D (Chemistry), University of Kyushu, Fukuoka, Japan, 2009-2011.
- (19) Trine Christensen, Ph.D. (Biochemistry) University of Copenhagen, 2005-2010.
- (20) Stella Marinakos, Ph.D. (Chemistry), North Carolina State University, 2003-2010.
- (21) Peng Yang, Ph.D. (Chemistry), Beijing University of Chemical Technology, 2007-2010.
- (22) Sterling Alfred, Ph.D. (Polymer Chemistry), University of Massachusetts, 2008-2010.
- (23) Andrew MacKay, Ph.D. (Bioengineering) UCSF, 2005-2008.
- (24) Michelle Nunnalee, Ph.D. (Materials Science) Northwestern University, 2006-2008.
- (25) Sihai Chen, Ph.D. (Chemistry), 2004-2007.
- (26) Dominic Chow, Ph.D. (Chemical Engineering), Northwestern University, 2003-2006.
- (27) Kimberly Carlson, Ph.D. (Bioengineering), University of Washington, Seattle, WA, 2000 2006.
- (28) Darin Furgeson, Ph.D. (Pharmaceutics), University of Utah, 2003-2005.
- (29) Li Liu, Ph.D. (Biochemistry), University of Miami, 2001-2003.
- (30) Jinho Hyun, Ph.D. (Materials Science and Engineering), North Carolina State University, 1999-2004.
- (31) Nidhi Nath, Ph.D. (Biomedical Engineering), Indian Institute of Technology, Delhi, India, 2000-2004.
- (32) Drazen Raucher, Ph.D. (Biophysics), Florida State University, Tallahassee, FL, 2000–2001.
- (33) Wolfgang Frey, Ph.D. (Biophysics), Technical University Munich, 1997-2001.
- (34) Byung Chunl Shin, Visiting Scientist, Korean Research Institute of Chemical Technology (KRICT), Ph.D. (Chemistry: Polymer Science) Korean Advanced Institute of Science and Technology, 1998-2000.
- (35) Zhongping Yang, Ph.D. (Chemistry) Linköping University, Sweden, 1998-1999.

Current Graduate Students Supervised (primary adviser)

- (1) Anya Varanko, Ph.D. candidate, Biomedical Engineering, 2017-present.
- (2) Daria Semeniak, Ph.D. candidate, Biomedical Engineering, 2017-present.
- (3) Jacob Heggestad, Ph.D. candidate, Biomedical Engineering, 2017-present.
- (4) Jason Liu, Ph.D. candidate, Biomedical Engineering, 2018-present.
- (5) Jonathan Su, Ph.D. candidate, Biomedical Engineering, 2018-present.
- (6) David Kinnamon, Ph.D. candidate, Biomedical Engineering, 2018-present.
- (7) Parul Sirohi, Ph.D. candidate, Biomedical Engineering, 2019-present.
- (8) Joshua Milligan, Ph.D. candidate, Biomedical Engineering, 2019-present.
- (9) Max Ney, Ph.D. candidate, Biomedical Engineering, 2019-present.
- (10) Daniel Shapiro, Ph.D. candidate, Biomedical Engineering, 2019-present.
- (11) Damon Burrows, Ph.D. candidate, Biomedical Engineering, 2019-present.

- (12) Zachary Quinn, Ph.D. candidate, Biomedical Engineering, 2020-present.
- (13) Xiao Guo, Ph.D. candidate, Biomedical Engineering, 2021-present.
- (14) Rachel Strader, Ph.D. candidate, Biomedical Engineering, 2022-present.
- (15) Kat Lazar, Ph.D. candidate, Biomedical Engineering, 2022-present.

Past Graduate Students Supervised (primary adviser)

- (1) Christine Woods, M.S. Biomedical Engineering, 1999.
- (2) Ron T. Piervincenzi, Ph.D. Biomedical Engineering, 2000.
- (3) Ryan Aslami, M.S. Biomedical Engineering, 2001.
- (4) Daniel Meyer, Ph.D. Biomedical Engineering, 2002.
- (5) Melissa Knight, M.S. Biomedical Engineering, 2004.
- (6) Bumjoon Kim, MS, Biomedical Engineering, 2005.
- (7) Richard Jason Smith, MS, Biomedical Engineering 2005.
- (8) Hongwei Ma, Ph.D. Biomedical Engineering, 2005.
- (9) Or Amit, M.S. Biomedical Engineering, 2006.
- (10) Matthew Dreher, Ph.D. Biomedical Engineering, 2006.
- (11) Dongwoo Lim, Ph.D. Biomedical Engineering, 2007.
- (12) Andrew Simnick, Ph.D. Biomedical Engineering, 2010.
- (13) Gregory Nusz, Ph.D. Biomedical Engineering, 2010.
- (14) Te-Wei (Dennis) Chu, M.S. Biomedical Engineering, 2010.
- (15) Daniel Callahan, Ph.D. Biomedical Engineering, 2011.
- (16) Miriam Amiram, Ph.D. Biomedical Engineering, 2012.
- (17) Felipe Garcia Quiroz, Ph.D. Biomedical Engineering, 2012.
- (18) Jeffrey Schaal, M.S. Biomedical Engineering, 2012.
- (19) Vinalia Tjong, Ph.D. Biomedical Engineering, 2013.
- (20) Jonathan McDaniel, Ph.D. Biomedical Engineering, 2013.
- (21) Wafa Hassouneh, Ph.D. Biomedical Engineering, 2013.
- (22) Ratul Shah, M.S. Biomedical Engineering, 2013.
- (23) Ji Sun Park, M.S. Biomedical Engineering, 2014.
- (24) Angus Hucknall, PhD Biomedical Engineering, 2014.
- (25) Sarah MacEwan, PhD Biomedical Engineering, 2014.
- (26) Joseph Bellucci, Ph.D., Biomedical Engineering, 2016.
- (27) Stacey Qi, Ph.D., Biomedical Engineering, 2016.
- (28) Eric Mastria, M.D./Ph.D., Biomedical Engineering, 2016.

- (29) Isaac Weitzhandler, Ph.D., Biomedical Engineering, 2017.
- (30) Kelli Luginbuhl, Ph.D., Biomedical Engineering, 2017.
- (31) Joseph Simon, Ph.D., Biomedical Engineering, 2017.
- (32) Daniel Joh, Ph.D., Biomedical Engineering, 2018.
- (33) Jeffrey Schaal, Ph.D., Biomedical Engineering, 2018.
- (34) Parisa Yousefpour, Ph.D. Biomedical Engineering, 2018.
- (35) Mandana Manzari, Ph.D., Biomedical Engineering, 2018.
- (36) Stefan Roberts, Ph.D., Biomedical Engineering, 2018.
- (37) Simone Costa, Ph.D., Biomedical Engineering, 2019.
- (38) Nicholas Tang, Ph.D., Biomedical Engineering, 2019.
- (39) Caslin Gilroy, Ph.D., Biomedical Engineering, 2019.
- (40) Samagya Banskota, Ph.D., Biomedical Engineering, 2019.
- (41) Michael Dzuricky, Ph.D., Biomedical Engineering, 2019
- (42) Cassio Mendes Fontes, Ph.D., Biomedical Engineering, 2020.
- (43) Imran Ozer, Ph.D., Biomedical Engineering, 2021.
- (44) Junseon Min, Ph.D., Biomedical Engineering, 2021.
- (45) Garrett Kelly, Ph.D., Biomedical Engineering, 2022.
- (46) Jacob Heggestad, Ph.D., Biomedical Engineering, 2022.
- (47) David Kinnamon, Ph.D., Biomedical Engineering, 2023.

Undergraduate Students Supervised

Ashay K. Parker (1997), Harsh Nanda (1997-1998), Scott Craig (1998), Neil Hattangadi (1998-1999). Santosh Venkatesha (1998-1999), Michael Ferrell (1998-2000), Audrey Kim (1999-2000), Tennyson Liu (1999-2001), Pavan K. Cheruvu (2000-2001), Mahesh R. Narayanswamy (2000-2001), Deepa Mishra (2000-2002), Toni Kwan (2001), Vadim Polikov (2002-2003), Shuping Koh (2002-2004), Anand Patel (2003-2004), Adam Piekarski (2003), Phillip Stiller (2003-2004), Emily Carl (2003-2004), Aarash Haghighat (2004-2005), Anjum Koreishi (2004-2005), Inge Osman (2005-2006), Daniel Kim (2004-2005), Jared Gardner (2004-2005), Png Kim (2004-2006), John Pura (2006-2008), Laura Angle (2008-2009), Kun Liang (2008-2009), Mike McGroddy (2008-2010), Michael Kramarz (2008-2010), Linda Qu (2008-2010), Wei Han (2008-2010); Sophia Kim (2010-2011); Jaemin Lee (2010-2011); Chris Radford (2010-2012); Linda Ye (2010-2012); Eric Wang (2010-2013); Kevin Zhu (2010-2012); Kyle Langdell (2011); Pichet (Bom) Praveschotinunt (2011-2013); Klaudia Kozek (2013); Matthew Jones (2012 - 2013); Andrew Hightaian (2013); Abby Heiller (2013); Divya Gupta (2013); Cameron Aubin (2013); Claire Vallery (2013 - 2014); Min Ju Park (2013 - 2014); Ju Wan Hong (2012 - 2014); Michael Hollander (2014); Tim Bai (2013 - 2014); Lucie Yeong-Ran Ahn (2011-2014); Zack Zimmers (2014-2017); Mitchell Zhang (2014-2017); Archit Verma (2013-2016); Chandler Moore (2015-2018); Kathy Lee (2014-2015); Grant Jirka (2015-2016); Tiffany Dong (2012-2015); Leon Cai (2014-2016); Rebecca Blair (2016-2017); Rohan Achar (2014-2017); Faris Albarghouthi (2016-2019); Nick Mayne (2016-2017); Paige Detwiler (2016 -2017); Jay Gupta (2016-2020); Aishwarya Nag (2016-2017); Inessa Chandra (2016); Chenguang Liang (2016-2017); Seung Hyun Lee (2016-2017); Kristen Buehne (2015-2017); Freddy Huang (2016 - 2018); Nadia Kirmani (2015-2019); Mae Lewis (2017-2018); Kelsey Li (2016-2018); Janice Liu (2017-2018); Vincent Miao (2016-2018); Abdulla Shahid (2017-2020); Rachel Skelton (2016-2018); Rishi Subrahmanyan (2015-2019); Manav Avlani (2017-2019); Stephanie Zelenetz (2017-2020); Amy Cheng (2017-2019); Nate Watson (2016-2019); Shourya Kumar (2016-2019); Easop Lee (2019-2020); Anna Slezak (2018-2020); Natalie Weinrauch (2018-2019); Yoav Kargon (2019-2020); Abhi Balu (2019-2020); Angus Li (2019-2020); Brian Rhee (2018-2019); Keng Zhang (2019); Rishi Rajendran (2020-2021); Erik Tran (2019-2021); Jarrett Dobbins (2019-present); Simone Wall (2019-current), Joanna Peng (2021-present), Ethan Ong (2021-present), Katy Price (2021-present), Brooke Silverstein (2021-present), James Zheng (2021-present)