

<b>15</b> P [Ar]3s <sup>2</sup> 3p <sup>1</sup> 277 44.30	<b>30</b> Al [Ne]3s <sup>2</sup> 3p <sup>1</sup> 283 13.01	<b>47</b> Er [Xe]4f <sup>11</sup> 6s <sup>2</sup> 152 90.40	<b>68</b> Mo [Kr]4d <sup>5</sup> 5s <sup>1</sup> 264 74.93	<b>42</b> Mo [Kr]4d <sup>5</sup> 5s <sup>1</sup> 264 74.93	<b>95</b> B [He]2s <sup>2</sup> 2p <sup>1</sup> 108 10.81
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C. Ergene, Z. Zhou, A. D'Amato, S. A. T. Ellman, H. Vijayamohan, C. K. Ullal\*, R. J. Gilbert\*, E. F. Palermo\*

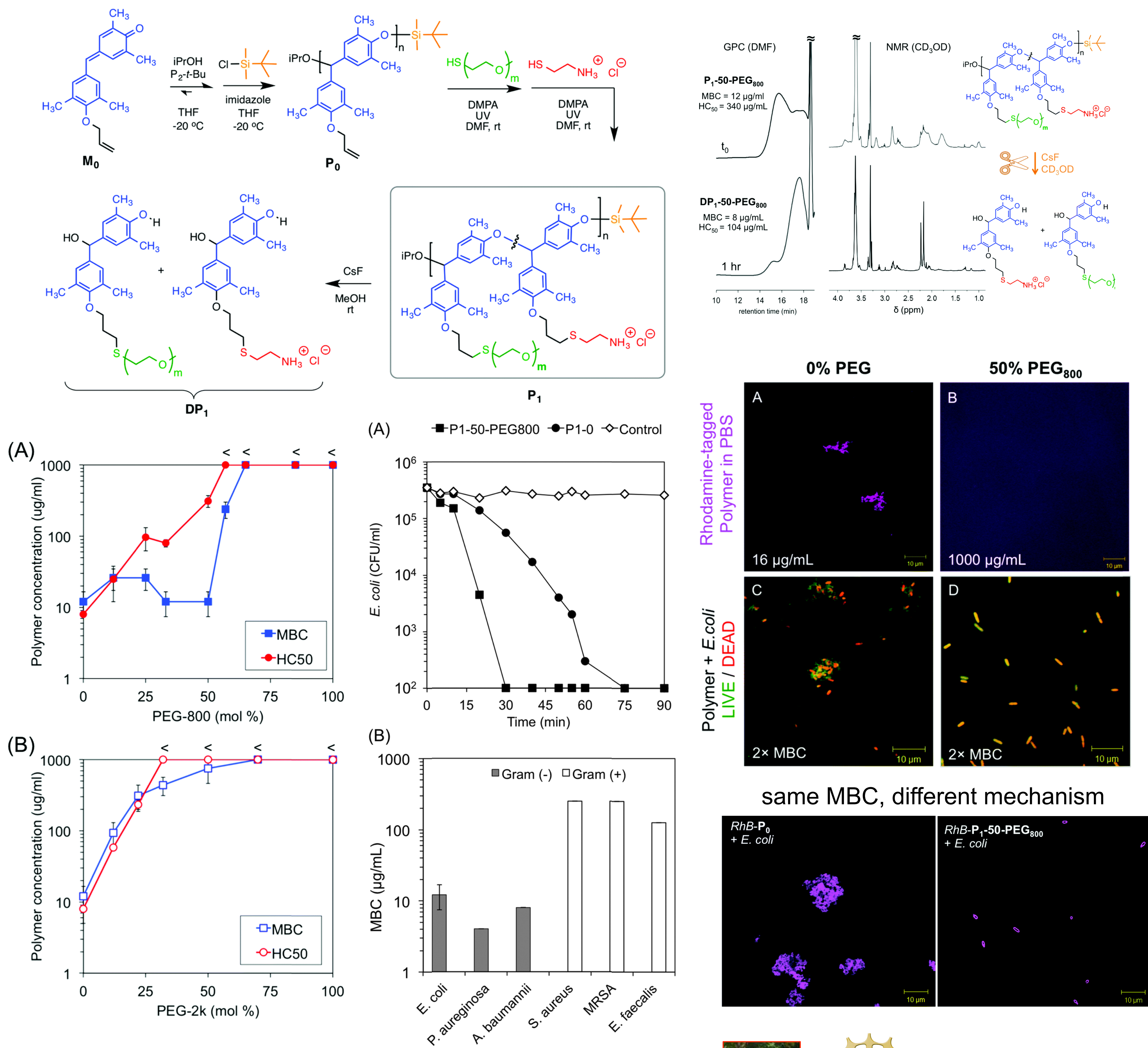
# Polymer Science at the Materials-Biology Interface



# Rensselaer

Materials Science & Engineering

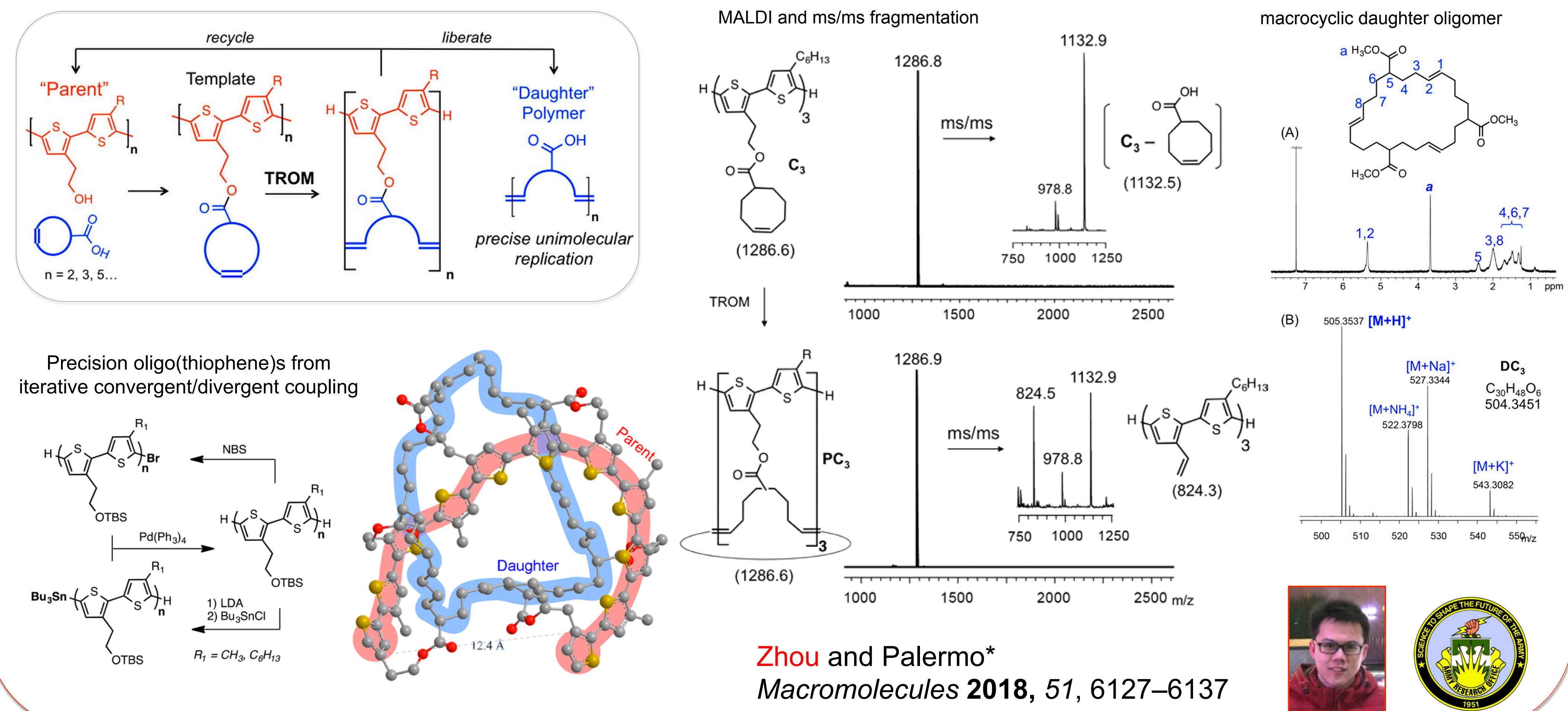
## Self-Immolative Antibacterial Polymers



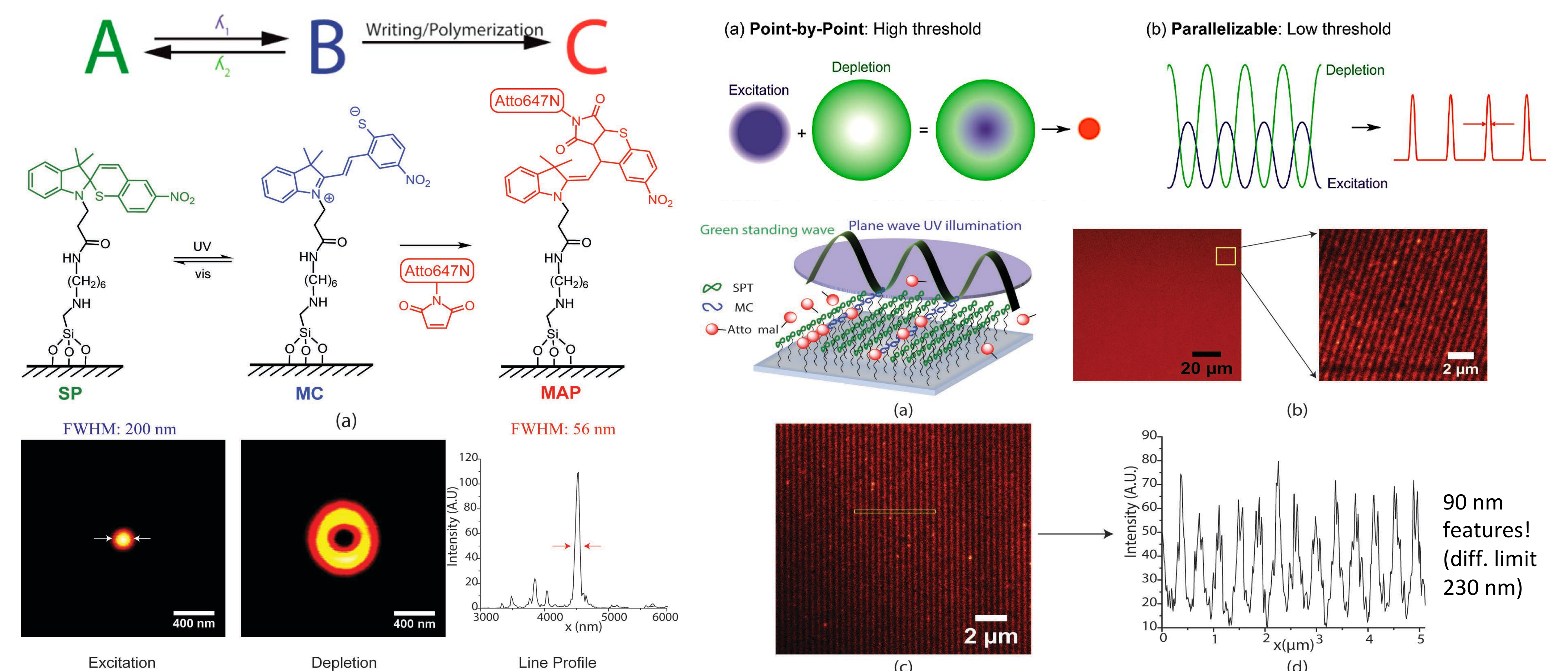
Ergene and Palermo\*, *J. Mater. Chem. B* 2018, 6, 7217 - 7229  
Ergene, Yasuhara, and Palermo\*, *Polym. Chem.* 2018, 9, 2407-2427  
Ergene and Palermo\*, *Biomacromolecules* 2017, 18, 3400-3409



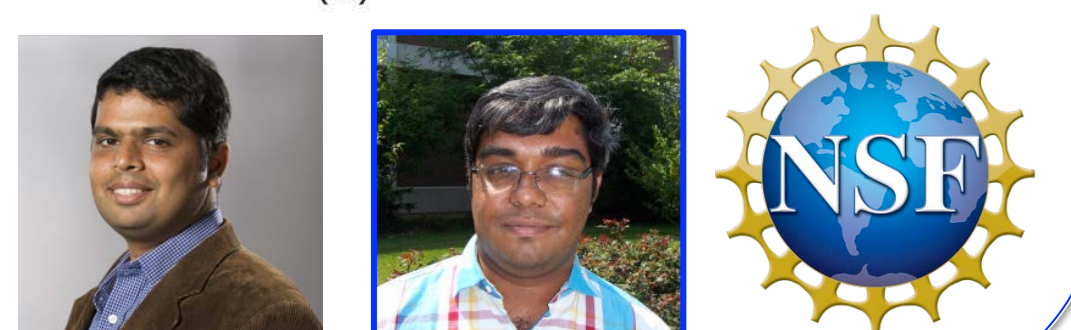
## Template Ring Opening Metathesis (TROM)



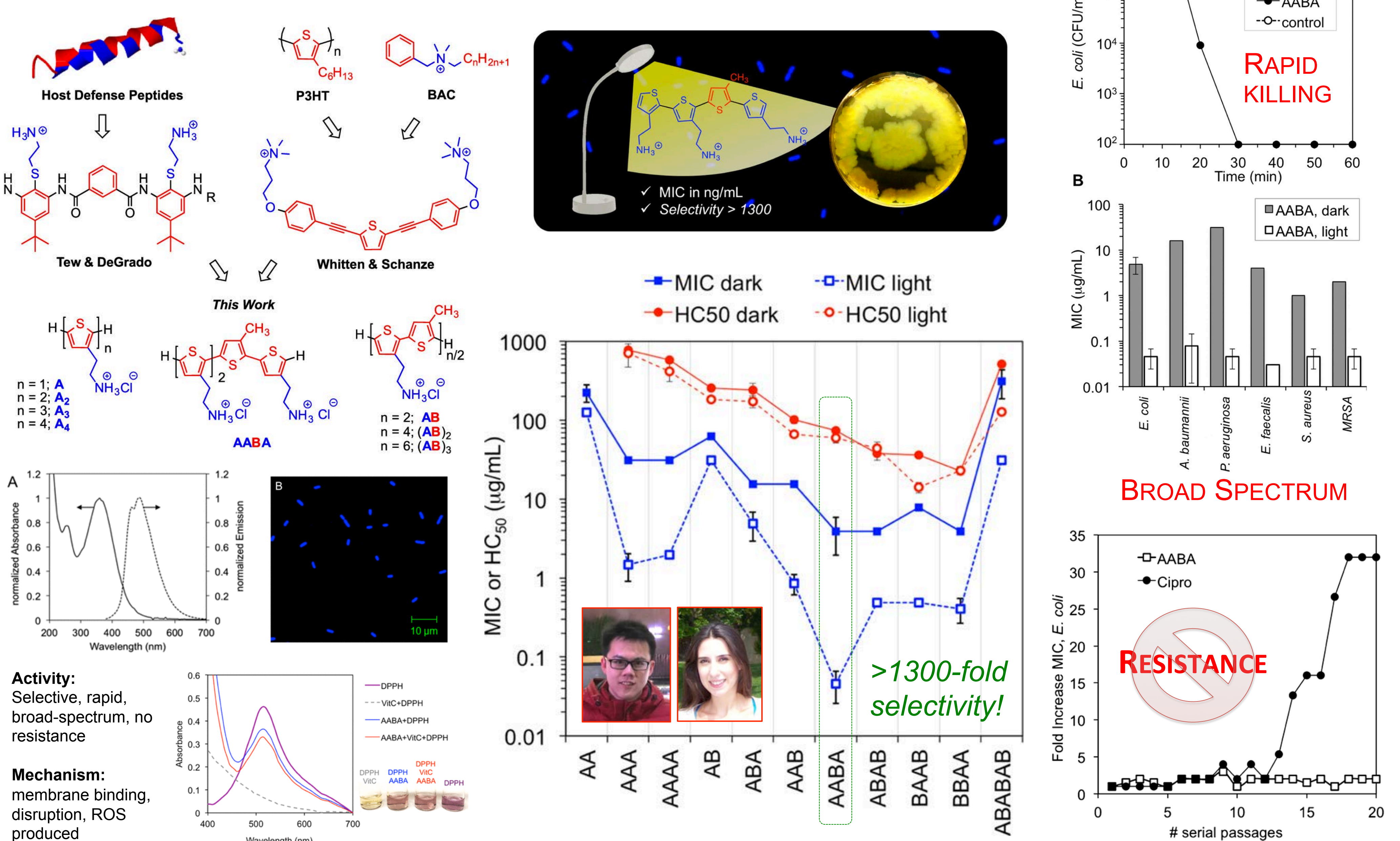
## Super-Resolution Lithography



Vijayamohan, Shankar, Palermo, Ullal\*, *Small* 2019, submitted  
Vijayamohan, Bhide, Boyd, Zhou, Palermo, Ullal\*, *Langmuir* 2019, 35, 3871-3879  
Vijayamohan, Palermo, Ullal\*, *Chem. Mater.* 2017, 29, 4754-4760

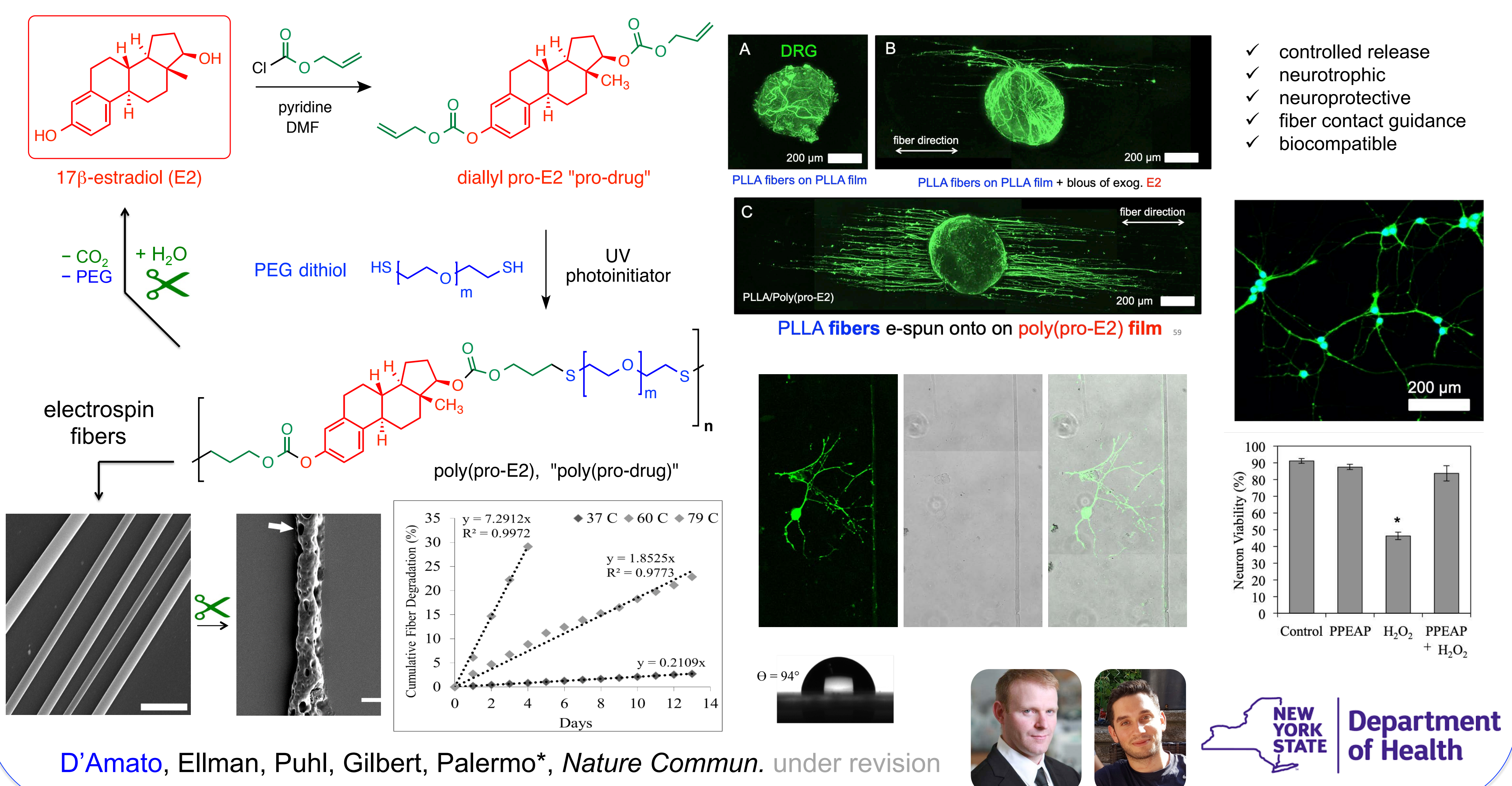


## Photodynamic Antibacterials



Zhou, Ergene, Lee, Shirley, Carone, Caputo, Palermo\*, *ACS Appl. Mater. Interf.* 2019, 11, 1896-1906

## Poly(pro-Drugs) for Spinal Cord Injury



D'Amato, Ellman, Puhl, Gilbert, Palermo\*, *Nature Commun.* under revision

