





17. **Kaar JL**, Basse N, Joerger AC, Stephens E, Rutherford TJ, Fersht AR\*. Stabilization of mutant p53 via alkylation of cysteines and effects on DNA binding. *Protein Sci*

29. Russell AJ



23. Kaar JL\*, Li Y, Blair HC, Asche G, Koepsel RR, Huard J, Russell AJ. Matrix metalloproteinase-1 treatment of muscle fibrosis. TERMIS-Europe Meeting, 2008 (poster).
24. Kaar JL\*, Li Y, Huard J, Koepsel RR, Russell AJ. Reversing the effects of scarring in lacerated muscle tissue using matrix metalloproteinase-1. TERMIS-North America Meeting, 2007 (poster).
25. Kaar JL, Amitai G\*, DeFrank JJ, Russell AJ. Biocatalytic pH control for nerve agent detoxification in aqueous solution and fire fighting foam. Self-Detoxifying Materials for CB Defense Conference, 2007 (talk).
26. Oh H\*, Kaar JL, Russell AJ, Federspiel WJ. Application of carbonic anhydrase for improved CO<sub>2</sub> gas exchange in artificial lungs. BMES Annual Meeting, 2006.
27. Oh H\*, Kaar JL, Russell AJ, Federspiel WJ. Immobilization and assessment of carbonic anhydrase on hollow fiber membranes for enzyme-enhanced artificial lungs. ASAIO Annual Meeting 2006.
28. Kaar JL\*, Koepsel RR, Li Y, Huard J, Russell AJ. Mitigation of scar tissue formation with PEGylated matrix metalloproteinase-1. TESI Annual Meeting, 2005 (poster).
29. Kaar JL\*, Koepsel RR, DeFrank JJ, Russell AJ. Biocatalytic pH control for nerve agent detoxification, AIChE Annual Meeting, 2004 (talk).
30. Sharma NK\*, Kaar J, Russell AJ. Potential applications of ionic liquids in enzyme-catalyzed polymer synthesis. ACS Fall Meeting, 2004 (talk).
31. Berberich JA, Mesiano AM, Kaar JL, Sharma NK\*, Russell AJ. Green approach to polyester synthesis using enzymes. EPA Forum on Emerging Technologies, 2003.
32. Berberich JA\*, Kaar JL, Mesiano AM, Erbedinger M, Russell AJ. Biocatalysis and enzyme stability in ionic liquids. ACS Fall Meeting, 2002 (talk).
33. Kaar J\*, Berberich JA, Drevon G, Russell AJ. Nerve agent biosensing polyurethane coating. AIChE Annual Meeting, 2001 (poster).

#### **PERSONNEL SUPERVISED (Fall 2010 – present)**

Erik Nordwald, PhD student, 2011 ó 2015  
 Kelsey (Childress) MacConaghy, PhD student, 2012 ó present  
 Joseph Plaks, PhD student, 2013 ó present  
 Nuria Codina, PhD student, 2013 ó present  
 James Wertz, PhD student, 2014 ó 2015  
 David Faulon Marruecos, PhD student, 2015 ó present  
 Samantha Summers, PhD student, 2015 ó present  
 Alaksh Choudhury, PhD student, 2015 ó present  
 Garrett Chado, PhD student, 2015 ó present  
 Katerina Voigt, PhD student, 2011  
 Navdeep Grover, Postdoc, 2014 ó present  
 Sean Yu McLoughlin, Postdoc, 2012 ó 2013  
 Michael Mckenna, undergraduate researcher, 2015 ó present  
 Clare Wise, undergraduate researcher, 2015 ó present  
 Melissa Rabin, undergraduate researcher, 2015  
 Vanessa Witte, undergraduate researcher, 2014  
 Caine Leuschner, undergraduate researcher, 2014  
 Chloe Anderson, undergraduate researcher 2013  
 David Faulon Marruecos, visiting undergraduate researcher, 2013  
 Karine Hoff, undergraduate researcher, 2012 ó 2013  
 Cuining Liu, undergraduate researcher, 2012

Gregory Nierode, undergraduate researcher (completed senior thesis), 2011 ó 2012  
Cassie Dymecki, undergraduate researcher, 2011 ó 2012  
Joseph Gardener, undergraduate researcher, 2011 ó 2012

### **TEACHING**

**Fall 2015** Applied Data Analysis CHEN 3010 (105 students), 3 credits  
**Spring 2015** Biokinetics CHEN 4830 (67 students), 3 credits  
**Fall 2014** Pharmaceutical Biotechnology CHEN 4801 (49 students), 3 credits  
**Fall 2013** Applied Data Analysis CHEN 3010 (60 students), 3 credits  
**Spring 2013** Pharmaceutical Biotechnology CHEN 4801 (65 students), 3 credits  
**Fall 2012** Applied Data Analysis CHEN 3010 (51 students), 3 credits  
**Fall 2011** Applied Data Analysis CHEN 3010 (55 students), 3 credits  
**Spring 2011** Pharmaceutical Biotechnology CHEN 4801 (co-taught, 77 students),

**Professional affiliations (member of)**

American Chemical Society, American Institute of Chemical Engineers, Participating member of University of Colorado Molecular Biophysics Program, Affiliate of University of Colorado Renewable and Sustainable Energy Institute (RASEI), Participating member of University of Colorado Interdisciplinary Quantitative Biology Program, Tau Beta Pi Engineering Honor Society, Omega Chi Epsilon Chemical Engineering Honor Society

**University Service**

Member of NIH/CU Molecular Biophysics Training Program Steering Committee, 2014 ó present

Member of CU Boulder campus Institutional Animal Care and Usage Committee (IACUC), 2012 ó 2013

Member of CU RASEI Faculty Search Committee, 2013



**Community Outreach**

Mentor to three Boulder Valley High School seniors (Taylor Andrews, Richard Noack, Michael Loesel) as part of the Boulder Valley Science Research Seminar Program