

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 CO₂ 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