Rebecca J. Abergel

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Education

- Ph.D. in Bio-Inorganic Chemistry (Dec 2006), University of California, Berkeley, USA
- Maîtrise du Magistère de Chimie Interuniversitaire (*B.S. with honor, Chemistry Major,* Aug 2002)
  Ecole Normale Supérieure de Paris / Université Pierre & Marie Curie, Paris, France

Work Experience

Research

- **Staff Scientist, Lawrence Berkeley National Laboratory (Nov 2010 – Present)**
- Project Scientist, Lawrence Berkeley National Laboratory (Mar 2009 – Oct 2010)
- Research Specialist, University of California, Berkeley, USA (Aug 2008 – Feb 2009)
- Post-Doctoral Research Fellow (Jan 2007 – Jul 2008)
  Laboratories of Prof. K. Raymond, UC Berkeley, CA and Prof. R. Strong, FHCRC, Seattle, WA
- Graduate Student Researcher (Aug 2002 – Dec 2006), Laboratory of Prof. K. Raymond, UC Berkeley, CA
- Research Assistant (Spring 2002), Laboratory of Prof. J. Arnold, UC Berkeley, CA

Current Research Support

- BARDA IPIAA12OS99609 (PI)
- NIH/NIAID-MCART HHSN266200500043C – WA 225 (PI)

Teaching, Mentoring, and Outreach

- Supervises undergraduate (U) and graduate (G) student researchers, research associates (RA), postdoctoral researchers (PR), and project scientists (PS).
  - LBNL: Dr. N. Panyala (PR, 2012-present), Dr. T. Choi (PR, 2012-present), Dr. C. Wu (PR, 2011), Dr. M. Sturzbecher-Hoehne (PS, 2010-present), J. Morales-Rivera (RA, 2012-2013), J. Villalobos (RA, 2012-present), E. Jarvis (RA, 2010-2012), D. An (RA, 2010-present), S. Hebert (G, 2013), F. Brulfert (G, 2013), G. Deblonde (G, 2012), C. Goujon (G, 2011), A.L. Prigent (G, 2010), C. Ng Pak Leung (G, 2009)
  - UC Berkeley: M. Varayia (U, 2007-2008), A. Phan (U, 2006), S. Kim (U, 2003-2004)
- Teaching Assistant Positions at UC Berkeley
  - *Inorganic Synthesis Laboratory for Chemistry Majors* (Spring Semesters 2004 & 2005)
  - *Chemical Structure and Reactivity I & II* (Spring Semesters 2002 & 2003)
- Outreach with Community Resources for Science: UC Berkeley Steering Committee Member
  Participated in the development of science outreach activities (2009-2011)
  Performed scientific presentations and experiments in 1st and 3rd grade classes (2005-2009)
- Outreach DVD project leader: "Bridging the gap between the research lab and the classroom"
  Produced and edited interviews of UC Professors by children (K-5) into a DVD distributed to Alameda County Elementary Schools to promote college education (2007-2010). Sponsored by Community Resources for Science

Awards and Fellowships

- Director's Award for Exceptional Scientific Achievement (2013), Lawrence Berkeley National Laboratory, USA
- Junior Faculty NCRP Award (2013), Radiation Research Society, USA
- Young Investigator Research Fellowship (2009-2010), Cooley's Anemia Foundation, New York, NY, USA
- European Commission Marie Curie Actions Scholarship (2004), European School of Haematology, France
- Université Pierre et Marie Curie Annual Fellowship (2002), French Conseil Régional d'Ile de France, France

Consulting

- Hanuman Medical Inc., San Francisco, CA, USA (2006 – 2008)
- Vinson & Elkins LLP, New York, NY, USA (2008 – 2009)
- FerroKin BioSciences, Inc., San Carlos, CA, USA (2008-2009)

Affiliations and Institutional Service

- 11th International Conference on the Health Effects of Incorporated Radionuclides Organizer (2013)
- Health Physics Society (2011-Present)
- Society of Toxicology (2011-Present)
- International Biometals Society (2011-Present)
- U.S. Women in Nuclear Organization (2011-Present)
- Radiation Research Society (2009-Present)
- American Chemical Society (2004-Present)
- Stanford Synchrotron Radiation Laboratory (2005-Present)
- Advanced Photon Source (2003-Present)
- LBNL Chemical Sciences Divisional Council (2011-Present)
- LBNL Radioactive Drug Research Committee Chair (2009-Present)
- LBNL Chemical Sciences Division Director Search Committees (2010, 2012)

Reviewing and Editorial Services

- Pharmaceutical Development and Technology, Journal of Controlled Release, Pharmaceutical Research, Chemical Research in Toxicology, PLoS, Radiochimica Acta, Dalton Transactions, ISRN Thermodynamics, Hemoglobin, Inorganic Chemistry, Health Physics, International Journal of Radiation Biology, Expert Opinion on Drug Discovery, Journal of the American Chemical Society, Actinides 2009 Conference.
- International Journal of Radiation Biology Guest Editor (HEIR 2013 Special Issue)

Publications, Patents and Oral Presentations

Publications

- Deblonde GJP, Sturzbecher-Hoehne M, **Abergel RJ** *Inorg. Chem.* **2013**, *52*, 8805.
- Sturzbecher-Hoehne M, Deblonde GJP, **Abergel RJ** *Radiochim. Acta* **2013**, *101*, 359.
- Deblonde GJP, Sturzbecher-Hoehne M, Mason AB, **Abergel RJ** *Metallomics* **2013**, 5, 619.
- Bunin DI, Chang PY, Doppalapudi RS, Riccio ES, An DD, Jarvis EE, Kullgren B, **Abergel RJ** *Rad. Res.* **2013**, *179*, 171.
- Sturzbecher-Hoehne M, Goujon C, Deblonde GJP, Mason AB, **Abergel RJ** *J. Am. Chem. Soc.* **2013**, *135*, 2676.
- Kullgren B, Jarvis EE, An DD, **Abergel RJ** *Toxicol. Mech. Meth.* **2013**, *23*, 18.
- Jarvis EE, An DD, Kullgren B, **Abergel RJ** *Drug. Dev. Res.* **2012**, *73*, 281.
- Chang PY, Bunin DI, Gow J, Swezey R, Shinn W, Shuh DK, **Abergel RJ** *J. Chromat. Separat. Techniq.* **2011**, *S4*.
- Correnti C, Clifton MC, **Abergel RJ,** Allred B, Hoette TM, Ruiz M, Raymond KN, Descalzi F, Strong RK *Structure* **2011**, *19,* 1796.
- Sturzbecher-Hoehne M, Ng Pak Leung C, D'Aleo A, Kullgren B, Prigent AL, Shuh DK, Raymond KN, **Abergel RJ** *Dalton Trans.* **2011**, *40*, 8340.
- **Abergel RJ,** Raymond KN *Hemoglobin* **2011**, *35,* 276.
- **Abergel RJ,** Durbin PW, Kullgren B, Ebbe SN, Xu J, Chang PY, Bunin DI, Blakely EA, Bjornstad KA, Rosen CJ, Shuh DK, Raymond KN *Health Phys.* **2010**, *99*, 401.
- Wilson MK, **Abergel RJ,** Arceneaux JEL, Raymond KN, Byers BR *Biometals.* **2010**, *23*, 129.
- **Abergel RJ,** D'Aléo A, Ng Pak Leung C, Shuh DK, Raymond KN *Inorg. Chem.* **2009**, *48*, 10868.
- **Abergel RJ,** Zawadzka AM, Hoette TM, Raymond KN *J. Am. Chem. Soc.* **2009**, *131*, 12682.
- Zawadzka AM, **Abergel RJ,** Nichiporuk R, Andersen UN, Raymond KN *Biochemistry* **2009**, *48*, 3645.
- Hoette TM, **Abergel RJ**, Xu J, Strong RK, Raymond KN *J. Am. Chem. Soc.* **2008**, *130*, 17584.
- **Abergel RJ,** Clifton MC, Pizarro JC, Warner JA, Shuh DK, Strong RK, Raymond KN *J. Am. Chem. Soc.* **2008**, *130*, 11524.
- **Abergel RJ,** Zawadzka AM, Raymond KN *J. Am. Chem. Soc.* **2008**, *130*, 2124.
- **Abergel RJ,** Raymond KN *J. Biol. Inorg. Chem.* **2008**, *13*, 229.
- **Abergel RJ,** Wilson MK, Arceneaux JEL, Hoette TM, Strong RK, Byers BR, Raymond KN *Proc. Natl. Acad. Sci.* **2006**, *103,* 18499.
- Fischbach MA, Lin H, Zhou L, Yu Y, **Abergel RJ,** Liu DR, Raymond KN, Wanner BL, Strong RK, Walsh CT, Aderem A, Smith KD *Proc. Natl. Acad. Sci.* **2006**, *103*, 16502.

- **Abergel RJ,** Moore EG, Strong RK, Raymond KN *J. Am. Chem. Soc.* **2006**, *128*, 10998.
- Wilson MK, **Abergel RJ,** Raymond KN, Arceneaux JEL, Byers BR *Biochem. Biophys. Res. Comm.* **2006**, *348*, 320.
- **Abergel RJ,** Warner JA, Shuh DK, Raymond KN *J. Am. Chem. Soc.* **2006**, *128*, 8920.
- **Abergel RJ,** Raymond KN *Inorg. Chem*. **2006**, *45*, 3622.
- **Abergel RJ,** Dinca M *Acta. Crys. E* **2004**, *60*, O1248.

Patents

- Durbin-Heavey, P. W.; Raymond, K. N.; **Abergel, R. J.**; Shuh, D. K. Combination Treatment of Hydroxypyridonate Actinide/Lanthanide Decorporation Agents. **2010** International Utility Patent Filing Application Serial No. 61/176,866.
- **Abergel, R. J.**; Corneillie, T.; Raymond, K. N. Siderophore Functionalization and Bioconjugation: A Tool for Rapid Anthrax Detection. **2007** U.S. Provisional Patent Application No.: 60/950,005.

Oral Presentations

- LBNL Opportunities in Heavy Element Chemistry and Materials Workshop, Berkeley, CA, USA (September 2013)
- 4th International Symposium on Metallomics, Oviedo, Spain (July 2013)
- 245th American Chemical Society Annual Meeting, New Orleans, LA, USA (April 2013)
- UC Berkeley Nuclear Engineering Department Colloquium, Berkeley, CA, USA (April 2013)
- BARDA/NIAID Symposium, Bethesda, MD, USA (January 2013)
- Lawrence Berkeley National Laboratory Radiation Protection Group Meeting, Berkeley, CA, USA (October 2012)
- DOE Site Occupational Medical Directors Meeting, Berkeley, CA, USA (October 2012)
- Commissariat à l'Énergie Atomique 2012 Speciation Seminar, Montpellier, France (May 2012)
- 2012 Materials Research Society Spring Meeting and Exhibit, San Francisco, CA, USA (April 2012)
- 243rd American Chemical Society Annual Meeting, San Diego, CA, USA (March 2012)
- Institut de Radioprotection et Sureté Nucléaire, Fontenay-aux-Roses, France (September 2011)
- Commissariat à l'Énergie Atomique Nuclear Toxicology Summer School, Giens, France (June 2011)
- 20th International Conference on Chelation, Grand Rapids, MI, USA (October 2010)
- 7th International Biometals Symposium, Tucson, AZ, USA (July 2010)
- 19th International Conference on Chelation, London, UK (November 2009)
- Commissariat à l'Énergie Atomique Decorporation Workshop, Fontenay aux Roses, France (October 2009)
- 10th Int Conference on the Health Effects of Incorporated Radionuclides, Santa Fe, NM, USA (May 2009)
- 18th International Conference on Chelation, Athens, Greece (December 2008)
- Joint BioEnergy Institute Seminar, Emeryville, CA, USA (July 2008)
- 235th American Chemical Society National Meeting, New Orleans, LA, USA (April 2008)
- 1st International Conference on Recent Advances in Health and Medical Sciences, Paphos, Cyprus (March 2008)
- 37th International Conference of Coordination Chemistry, Cape Town, South Africa (August 2006)
- Gordon Research Conference "Metals in Medicine", Colby College, ME, USA (June 2004)