

1. Name: Marek Romanowski

2. Education:

M.S. Physics Adam Mickiewicz University, 1984

Ph.D. Physics, Nicolaus Copernicus University, 1989

3. Academic experience:

1989-1991 Research Associate, Chemistry, University of Nebraska, Lincoln, Nebraska

1991-1992 Research Scientist, Biology, Johns Hopkins University, Baltimore, Maryland

1992-1996 Research Associate, Chemistry, University of Arizona, Tucson, Arizona

2004-2010 Research Assistant Professor, Biomedical Engineering, Materials Science & Engineering (from 2005), University of Arizona, Tucson, Arizona

2005- Member of the Arizona Cancer Center

2007- Member of the BME GIDP, University of Arizona

2010- Associate Professor, Biomedical Engineering, Materials Science & Engineering, University of Arizona

4. Non-academic experience:

1996-1997 Scientist, The Liposome Company, Princeton, New Jersey

1997-1998 Project Lead, Ribozyme Pharmaceuticals Inc., Boulder, Colorado

1999-2000 Director, Formulation Development, ImaRx Pharmaceutical Corp., Tucson, Arizona

2000-2002 Senior Director, Formulation Development, ImaRx Therapeutics Inc., Tucson, Arizona

5. Certifications or professional registrations: None

6. Current membership in professional organizations: None

7. Honors and awards:

UA College of Engineering Faculty Fellows Award, 2011

Award for Excellence at the Student Interface, UA College of Engineering, 2012

Letter of Recognition from University President, 2015

8. Service activities

2004- NIH ad hoc study section member (occasionally, less than 1/yr)

2009- NSF review panel member (CAREER, CBET, Biomaterials, typically one a year)

2013 Reviewer for the DoD Medical Research Program

2010-2014 Mentor in KEYS and other outreach programs at University of Arizona

2009- Mentor in NIH T32 Cardiovascular Training Grant

2009- Mentor in NIH T32 Training Grant – Biomedical Imaging and Spectroscopy

2016- Mentor in NIH T32 Training Grant - Computational and Mathematical Modeling of Biomedical Systems

2010- Mentor in various programs supporting minority graduate and undergraduate students, including MARC (Maximizing Access to Research Careers), Minority

	Health Disparities Program, Initiative for Maximizing Student Development (IMSD), Diversity Supplement to a Program Project Grant (P01).
2010-2014	Reviewer for the UofA Technology Research Initiative Fund Imaging Fellowship Program
2011-	Member of the Program Committee, BME GIDP
2010-	Member of the Study Committee, Department of BME
2013-2014	Chair of the Study Committee, Department of BME
2012-2014	Member of the Study Committee, College of Engineering
2010-	Directing the laser facility, NSF MRI-funded suite of shared instrumentation
2015-2016	Member of the 5-year Dean Review Committee, College of Engineering

9. Publications (partial list from last 5 years)

- Watson JR, Gainer CF, Martirosyan N, Skoch J, Lemole GM Jr, Anton R, Romanowski M. Augmented microscopy: real-time overlay of bright-field and near-infrared fluorescence images. *J Biomed Opt.* 2015 Oct;20(10):106002.
- Martyrosyan N, Skoch J, Watson J, Lemole GM, Romanowski M, Anton R. Integration of ICG videoangiography with operative microscope: Augmented reality for interactive assessment of vascular structures and blood flow. *Operative Neurosurgery* 11, 2015, 252-258.
- Orsinger GV, Williams JD, Romanowski M. Focal activation of cells by plasmon resonance assisted optical injection of signaling molecules. *ACS Nano* 8, 2014, 6151-62
- Orsinger GV, Watson JM, Gordon M, Nymeyer AC, de Leon EE, Brownlee JW, Hatch KD, Chambers SK, Barton JK, Kostuk RK, Romanowski M. Simultaneous multiplane imaging of human ovarian cancer by volume holographic imaging. *J. Biomedical Optics* 19, 2014, 036020.
- Gainer CF, Romanowski M. A review of synthetic methods for the production of upconverting lanthanide nanoparticles. *Journal of Innovative Optical Health Sciences* 07, 2014, 1330007.
- Gainer CF, Utzinger U, Romanowski M. Scanning two-photon microscopy with upconverting lanthanide nanoparticles via Richardson-Lucy deconvolution. *Journal of Biomedical Optics* 17, 2012, 076003.
- Leung SJ, Romanowski M. NIR-activated content release from plasmon resonant liposomes for probing single-cell responses. *ACS Nano* 6, 2012, 9383-9391.
- Leung SJ, Romanowski M. Molecular catch and release: controlled delivery using optical trapping with light-responsive liposomes. *Advanced Materials* 24, 2012, 6380-6383
- Gainer CF, Joshua GS, De Silva CR, Romanowski M. Control of green and red upconversion in NaYF₄:Yb³⁺,Er³⁺ nanoparticles by excitation modulation. *Journal of Materials Chemistry* 21, 2011, 18530-18533.
- Leung SJ, Kachur XM, Bobnick MC, Romanowski M. Wavelength-selective light-induced release from plasmon resonant liposomes. *Advanced Functional Materials* 21, 2011, 1113-1121. (cover page).

10. Professional development:

Dr. Romanowski was a recipient of a mentored Career Development Award from the National Institutes of Health (K25), 2007-2012. This CDA included a specifically tailored professional development program, including participation in structured components (courses and seminars), self-assessments, and individual work with professional development mentors at the University of Arizona.