

Kamran Badizadegan, M.D.

Academic Pathologist · Translational Scientist · Data-Driven Physician Leader

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CAREER HIGHLIGHTS

Vice President, Kid Risk, Inc. (2019-present)

Kid Risk, Inc. is a non-profit public policy organization focused on improving lives by understanding, characterizing, and communicating about risks and decisions. Our work provides integrated analytical insights that empower policy makers and stakeholders to make the best decisions based on the best available information.

Chief of Pathology and Laboratory Medicine, Nationwide Children's Hospital; Professor of Pathology, The Ohio State University (2016-19)

Reorganization of Laboratory Services including expansion of subspecialty practice and recruitment of 14 new faculty; Development and implementation of multiple quality improvement initiative and personnel development programs; Startup of a new service lines in Diagnostic Immunology; Development of analytics team and laboratory informatics program; CAP/CLIA medical directorship of Nationwide Children's Laboratory Services (~350 FTE; including 24 faculty) and founding medical director for the Institute for Genomic Medicine Clinical Laboratory (~50 FTE; including 6 faculty).

Founding Chair of Pathology and Laboratory Medicine & Founding Member of Medical Staff, Nemours Children's Hospital; Professor of Pathology, University of Central Florida (2011-16)

Startup and accreditation of new hospital laboratory with ~45 FTE recruited and onboarded by mid-2016; founding membership of the medical executive committee and several quality committees; Designation as the Roche Center for Molecular Excellence (in collaboration with UCF); Startup of Nemours-wide pathology consultation practice spanning multiple sites in Florida & Delaware; Recipient of physician excellence award for quality in 2014.

Multiple Positions, Harvard Medical School & Massachusetts Institute of Technology (1997-2011)

Subspecialty practice with increasing responsibility at Children's Hospital Boston and Massachusetts General Hospital; Core Faculty member at the Harvard-MIT Division of Health Sciences and Technology and directorship of graduate level course in pathology at Harvard and MIT; Member of *The Academy* at Harvard Medical School; Associate Director and Principal Research Scientist at MIT Spectroscopy Laboratory including co-leadership of NIH and NSF funded grants.

EDUCATION

5/1988	B.S. (Chemical Engineering)	Massachusetts Institute of Technology (MIT)
6/1993	M.D.	Harvard Medical School and the Harvard-MIT Division of Health Sciences and Technology

CLINICAL RESIDENCY AND FELLOWSHIP

1993-95	Resident in Anatomic Pathology	Brigham & Women's Hospital, Harvard Medical School
1995-96	Clinical Fellow in Pediatric Pathology	Boston Children's Hospital, Harvard Medical School
1996-97	Senior Resident in Surgical Pathology	Brigham & Women's Hospital, Harvard Medical School

BOARD CERTIFICATIONS

1994	Diplomate (lifetime), National Board of Medical Examiners
1997	Diplomate (lifetime), American Board of Pathology - Anatomic Pathology
1999	Diplomate (lifetime), American Board of Pathology - Pediatric Pathology
2015-25	Diplomate, American Board of Pathology - Clinical Informatics

ACADEMIC AND RESEARCH POSITIONS

2019 - current	Vice President	Kid Risk, Inc.
2017-19	Professor of Pathology (Clinical)	The Ohio State University
2012-16	Professor of Pathology	University of Central Florida
2009-11	Associate Professor of Pathology	Harvard Medical School
2009-11	Associate Professor of Health Sciences and Technology	Harvard-MIT Division of Health Sciences and Technology
2007-09	Principal Research Scientist	G. R. Harrison Spectroscopy Laboratory, MIT
2001-08	Assistant Professor of Pathology	Harvard Medical School

1999-09	Affiliated Core Faculty	Harvard-MIT Division of Health Sciences & Technology
1998-07	Visiting Scientist	G. R. Harrison Spectroscopy Laboratory, MIT
1997-01	Instructor in Pathology	Harvard Medical School

HOSPITAL/CLINICAL APPOINTMENTS

2016-19	Chief of Pathology and Laboratory Medicine	Nationwide Children's Hospital
2016-19	CAP/CLIA Laboratory Medical Director (~350 technical FTEs and 24 doctoral faculty)	Nationwide Children's Hospital (NCH) Laboratory Services
2016-19	CAP/CLIA Laboratory Medical Director (~50 technical FTEs and 6 doctoral faculty)	NCH Institute for Genomic Medicine Clinical Laboratory
2016-19	President	Pediatric Pathology Associates of Columbus, Inc.
2011-16	Founding Chair of Pathology and Laboratory Medicine (from startup in 2011 to 40 technical FTEs and 5 clinical faculty by 2016)	Nemours Children's Hospital
2011-16	Director of Nemours Pathology Network	Nemours Healthcare (Florida)
2014-16	Founding Director for <i>Roche Center for Molecular Excellence</i> (with UCF Medicine)	Nemours Children's Hospital
2003-11	Associate Pathologist in Gastrointestinal Pathology and Head of Pediatric Pathology	Massachusetts General Hospital
1999-05	Adjunct Associate Pathologist	Brigham & Women's Hospital
1997-03	Assistant Pathologist and Director of Gastrointestinal Pathology	Children's Hospital Boston

MEDICAL LICENSURE

1997-12	MA - Board of Registration in Medicine (#151157; voluntary non-renewal in 2012)
2011-present	FL - Department of Health (#ME111484)
2016-2023	OH - State Medical Board (#35.129581; voluntary non-renewal in 2023)
NPI	1972585586

EXECUTIVE EDUCATION

2011-12	<i>Leadership Development Institute</i> , Nemours Healthcare (continuous improvement, daily management systems, and human resource management)
2011-12	<i>Accountability Now!</i> Living the Ten Principles of Personal Leadership, workshops and personal coaching by Mark Sasscer and Associates, Leadquest Consulting
2013-14	The <i>Extraordinary Leader</i> development program, Zonger-Folkman Associates, with personal coaching by Larry Kaye, senior fellow of the International Consortium for Executive Development Research
2014	<i>Becoming Conflict Competent</i> , Craig Rundle, JD, Eckerd College Center for Conflict Dynamics short course
2017	<i>Quality Improvement Essentials: A Guide for Driving Improvement</i> , Nationwide Children's Hospital, Columbus, OH
2018	<i>Leadership Communications</i> , Beckman Consulting and Nationwide Children's Hospital, Columbus, OH

RESEARCH TRAINING

1985-88	Undergraduate Research Opportunities Program (Mentor: Martin Yarmush, MD, PhD, Professor of Surgery & Bioengineering)	Dept. of Chemical Engineering, MIT
1989-90	Howard Hughes Medical Institute Medical Student Research Fellow (Mentor: Martin Yarmush, MD, PhD, Professor of Surgery & Bioengineering)	Dept. of Surgery, Massachusetts General Hospital

1997-01	Research Associate in GI Cell Biology (Mentor: Wayne Lencer, MD, Professor and Chief of Pediatric Gastroenterology)	Harvard Digestive Disease Center at Boston Children's Hospital
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LOCAL/INSTITUTIONAL SERVICE

2001-11	Graduate Education Committee	Harvard-MIT Division of Health Sciences and Technology
2003-11	Medical Education Committee (ad hoc)	Harvard Medical School & Harvard- MIT Division of Health Sciences and Technology
2003-04	Admissions Committee	Harvard Medical School
2003-09	Premedical Advising Team	MIT
2007-11	MD Honors Committee	Harvard-MIT Division of Health Sciences and Technology
2010	Accreditation Council for Graduate Medical Education (ACGME) review committee	Medicine-Pediatrics Residency, Massachusetts General Hospital
2011	Course & Clerkship Review Committee	Harvard Medical School
2012	LCME Site Visit Preparatory Committee	UCF College of Medicine
2012-16	Medical Executive Committee	Nemours Children's Hospital
2012-16	Transfusion Committee (Co-Chair)	Nemours Children's Hospital
2012-16	Point of Care Testing Committee (chair)	Nemours Children's Hospital
2012-14	Graduate Medical Education Committee	UCF College of Medicine
2012-16	Committee on Research Integrity	Nemours Healthcare (combined Delaware and Florida Operations)

2013-16	Co-chair, Laboratory Information Systems Steering Committee	Nemours Healthcare (combined Delaware and Florida Operations)
2016-19	Quality Management Committees (multiple), Nationwide Children's Laboratory Services	Nationwide Children's Hospital
2018-19	Executive Leadership Team, Laboratory Information Systems; Data Innovations Implementation; LabVantage Implementation	Nationwide Children's Hospital

NATIONAL SERVICE

2002	National Center for Research Resources site visit committee, UC Irvine	National Institutes of Health
2008-2009	The Oral, Dental and Craniofacial Sciences [ODCS] study section (ad hoc)	National Institutes of Health
2009	Challenge Grants Panel #23	National Institutes of Health
2009	SBIB-L Diversity Fellowships	National Institutes of Health
2010	Biological Chemistry and Macromolecular Biophysics IRG-A(51)R Transformative R01 Roadmap Review (ad hoc)	National Institutes of Health
2011	Special Emphasis Panel - Clinical and Translational Imaging Apps (ZRG1 DTCS-U)	National Institutes of Health
2011-12	Emerging Technologies Team for In Vivo Microscopy	CAP Presidential Task Force on Transformative Projects
2013	Biomedical Imaging Technology Study Section (ad hoc)	National Institutes of Health
2013-17	In Vivo Microscopy (IVM) Committee; Chair of subcommittee for Awareness & Education	College of American Pathology
2016-19	Children's Pathology Chairs Committee	Consortium of United States and Canadian Children's Hospitals

2017-19	Informatics Committee	College of American Pathology
2017-19	Member and SoMe committee member	Association of Pathology Chairs
2018-19	Finance Committee	Society for Pediatric Pathology
2018-19	Maintenance of Certification (MOC) Committee	American Medical Informatics Association
2019	Accreditation Inspection Team Leader, Children's Mercy Hospitals & Clinics	College of American Pathology

PROFESSIONAL SOCIETIES

1998-present	USCAP (United States/Canadian Academy of Pathology)
1998-16	AGA (American Gastroenterological Association)
1998-11	ASIP (American Society for Investigative Pathology)
2000-19	SPP (Society for Pediatric Pathology)
2001-16	GIPS (Gastrointestinal Pathology Society)
2011-present	CAP (College of American Pathology)
2015-present	AMIA (American Medical Informatics Association)
2017-present	Association for Pathology Informatics
2017-19	Association of Pathology Chairs

HONORS AND AWARDS

1988	Robert T. Haslam Award, Massachusetts Institute of Technology	<i>For "outstanding professional promise in chemical engineering"</i>
1988-16	Sigma Xi membership, various chapters	<i>Recognition for "Excellence in scientific investigation"</i>
1989-90	Medical Student Research Fellowship Award, Howard Hughes Medical Institute	<i>For research on "Design & characterization of a hybrid bioartificial liver"</i>

2006 & 2007	Nomination for Irving London teaching award, HST Society	<i>Recognition for teaching excellence in HST.120 Gastrointestinal Pathophysiology</i>
2009-11	Member of <i>The Academy</i> at Harvard Medical School	<i>Recognition for commitment to teaching and learning at Harvard Medical School</i>
2012	College of American Pathology presidential recognition	<i>For “Outstanding service and lasting contributions to the future of pathology as a member of the Transformation Case for Change team”</i>
2014	Nemours Physician Excellence Award for Quality	<i>Recognition for promoting clinical quality, safety and patient satisfaction</i>
2020	Best Doctors®	<i>Best Doctors in America list featured in Orlando Magazine</i>
2021	Top Doctor®	<i>Featured as a Top Doctor representing Orlando, FL</i>

EXTRAMURAL RESEARCH FUNDING

1998-00	Structure of detergent-insoluble membranes in intestinal epithelia NIH/NIDDK P30-DK34845 Harvard Digestive Diseases Center Pilot/Feasibility Grant Role: PI
1998-99	Biology of caveolae and caveolins in intestinal epithelia Wilkes Tumor Research Grant (Children's Hospital Boston) Role: PI
2000-02	Real-time in vivo diagnosis of dysplasia by fluorescence NIH/NCI R01-CA53717 (subcontract to BWH) Role: Site-PI
2001-03	Role of structural-functional heterogeneity in membrane microdomains in pathogenesis of secretory diarrhea Charles H. Hood Foundation Child Health Research Grant Role: PI

- 2000-06 Heterogeneity of caveolae in intestinal epithelia
NIH/NIDDK K08-DK02907
Role: PI
- 2003-09 Spectroscopic imaging and diagnosis of neoplasia
NIH Bioengineering Research Partnership NCI R01-CA097966
Role: Co-PI for the entire grant; Project leader for diagnostic pathology
- 1997-11 MIT Laser Biomedical Research Center
NIH/NCRR P41-RR002594
Role: Core Investigator (funded through 2011; voluntarily ended in 2009)
- 2008-11 IDBR: Field-Based Tomographic Microscopy Instruments
NSF DBI 0754339
Role: Co-PI (funded through 2011; voluntarily ended in 2009)
- 2009-11 Optical spectroscopic scanner for comprehensive assessment of surgical margins
NIH/NRRC P41-RR002594-S1
Role: Project PI (funded through 2011; voluntarily ended in 2009)
- 2015-17 A prospective open label multicenter study comparing Lymphoseek and vital blue dye
as a lymphoid tissue targeting agent in pediatric patients with melanoma,
rhabdomyosarcoma or other solid tumors
Navidea Biopharmaceutical NAV3-18
Role: PI
- 2015-16 Implementation of Pharmacogenomic Testing in Nemours Children's Health System
Nemours Health Internal Funding
Role: Investigator
- 2019-2021 Integrated Economic, Dynamic Disease, Risk and Decision Analytic Modeling of
Global and Domestic Policy Issues for Polio
CDC Cooperative Agreement U2RGH001913
Role: Investigator
- 2019-2023 Characterizing Uncertainty in Long-term Poliovirus Risks to Support Further
Research and Risk Management Decisions
BMGF Grant INV-009333

2021-2026 Integrated Modeling to Support the Global Polio Eradication Initiative (GPEI) and
Management of Other Vaccine Preventable Diseases
CDC Cooperative Agreement U2RGH001915
Role: Investigator

INVITED PRESENTATIONS *(does not include numerous clinical and teaching presentations
targeted primarily at students, resident and/or fellows at various hospitals)*

1998 Pediatric intestinal biopsies. Surgical Pathology Update, Brigham and Women's Hospital,
Boston, MA

1999 Structure and function of lipid rafts in intestinal epithelia. Harvard Digestive Diseases
Center research seminar, Boston, MA

2001 Neoplasia. Lester Wolf Workshop in Laser Biomedicine, Massachusetts General
Hospital, Boston, MA

2002 Shedding light on human disease using OCT and diagnostic spectroscopy. Harvard
Medical School Combined Pathology Grand Rounds, Boston, MA (joint presentation with
Gary Tearney, MD, PhD)

2002 Diagnostic spectroscopy. Department of Pathology, Massachusetts General Hospital,
Boston, MA

2004 Lipid rafts, cholera toxin and beyond. Wellman Photomedicine Lecture Series,
Massachusetts General Hospital, Boston, MA

2004 Optical technologies for in vivo imaging. Fifth National Forum on Biomedical Imaging
in Oncology. NIH and Foundation for Advanced Education in the Sciences, Bethesda,
MD

2004 Spectroscopic imaging and diagnosis of neoplasia. Fourth Bioengineering Research
Partnership meeting, NIH Bioengineering Consortium, Bethesda, MD

2007 Imaging red cell dynamics by quantitative phase microscopy. Red Blood Cell
Conference, Harvard Medical School, Boston, MA

2008 From Virchow to Raman: Spectroscopic tools for in vivo diagnosis. Seminar series in
experimental life sciences, Department of Pathology, Massachusetts General Hospital,
Boston, MA

2008 Field-based microscopy for dynamic imaging of live cells. Pathology Grand Rounds,
Massachusetts General Hospital, Boston, MA

2009 Millennial Landmarks in Modern Diagnostic Medicine. Lester Wolf Workshop in Laser
Biomedicine, Massachusetts Institute of Technology, Cambridge, MA

- 2009 Raindrops on water: Quantitative phase microscopy for analysis of cell structure and dynamics. New England Cytometry Users Group Annual Meeting, Boston, MA
- 2010 The enteric nervous system: Development, disease and discovery. Massachusetts General Hospital Inter-Laboratory Pathology Seminar Conference (joint presentation with Allan Goldstein, Department of Pediatric Surgery), Boston, MA
- 2010 Spectroscopy and quantitative microscopy in pathology imaging. Pathology Informatics 2010, Boston, MA
- 2007-9 Gastrointestinal Biopsies in the Pediatric Patient. Current Concepts in Surgical Pathology, Harvard Medical School Department of Continuing Education, Boston, MA
- 2010-11 Pediatric Inflammatory Bowel Disease: Presentation and Differential Diagnosis. Current Concepts in Surgical Pathology, Harvard Medical School Department of Continuing Education, Boston, MA
- 2011 Hirschsprung Disease and other motility disorders. Liver and Pancreatic Pathology, Harvard Medical School Department of Continuing Education, Boston, MA
- 2011 Mucosal biopsies in evaluation of pediatric intestinal disease, The Contribution of Anatomic Pathology to the Health of Women and Children, Addis Ababa, Ethiopia
- 2011 Pediatric Motility Disorders. The Contribution of Anatomic Pathology to the Health of Women and Children, Addis Ababa, Ethiopia
- 2012 Five Easy Pieces - Lost in Translation, University of Central Florida, College of Optics and Photonics (CREOL), Orlando, FL
- 2013 The enteric nervous system. Pathology Grand Rounds, Stanford University Department of Pathology, Stanford, CA
- 2013 Technology Transfer in Surgical Pathology: When will the future come? Special Lecture, Stanford University Department of Pathology, Stanford, CA
- 2013 Ex Vivo Applications of In Vivo Microscopy (IVM): Shedding a different light on cells and tissues, College of American Pathology (Webinar)
- 2014 In vivo imaging of cell and tissue dynamics: Towards biologically relevant diagnostic models in surgical pathology. 21st Annual Molecular Medicine Tri-conference. San Francisco, CA
- 2016 Intramucosal Neuroglial Cells: Lessons from Hirschsprung Disease in the development of the enteric nervous system, Nationwide Children's Hospital, Columbus, OH
- 2017 Diagnostic microscopy in the 21st Century: Clinical opportunities and translational challenges, Pediatric Grand Rounds, Nationwide Children's Hospital, Columbus, OH

- 2017 Predictive Analytics, Annual Meeting of Children's Pathology Chiefs, San Antonio, TX
- 2017 Diagnostic Errors in Pathology: How to avoid predictable surprises, Pediatric Surgery Grand Rounds, Nationwide Children's Hospital Columbus, OH
- 2017 Pediatric Inflammatory Bowel Disease, The Ohio State University Department of Pathology Update Course, Columbus, OH
- 2017 Advanced Hirschsprung Disease: Post Pull Through Problems, invited panelist, International Colorectal Symposium, Columbus, OH
- 2018 Informatics in Pathology and Lab Medicine, Annual Meeting of Children's Pathology Chiefs, Vancouver, BC
- 2018 Management of Hirschsprung Disease in the General Practice: How to Avoid Predictable Errors, The Ohio State University Department of Pathology Update Course, Columbus, OH
- 2023 Challenges Related to Poliovirus Eradication and Advances in Poliovirus Vaccines and Diagnostics, The Association of Medical Laboratory Immunologists, Webinar.

PEER REVIEWED PUBLICATIONS:

Citation indices (data derived from Google Scholar® accessed on 08/01/2023):

Total Citations: 16206

***h*-index** (*h* papers with at least *h* citations): 50

***i10*- index** (number of publications with at least 10 citations): 81

1. Badizadegan K, Perez-Atayde AR. Focal glycogenosis of the liver in disorders of ureagenesis: its occurrence and diagnostic significance. *Hepatology* 1997; 26(2): 365-73.
2. Badizadegan K, Perez-Atayde AR. Pathology of lung allografts in children and young adults. *Human Pathol* 1997; 28(6): 704-13.
3. Granter SR, Badizadegan K, Fletcher CDM. Myofibromatosis in adults, glomangiopericytoma, and myopericytoma: a spectrum of tumors showing perivascular myoid differentiation. *Am J Surg Pathol* 1998; 22(5): 513-25.
4. Jonas MM, Ott MJ, Nelson SP, Badizadegan K, Perez-Atayde AR. Interferon-alpha treatment of chronic hepatitis C virus infection in children. *Ped Infect Dis J* 1998; 17(3): 241-6.
5. Badizadegan K, Jonas MM, Ott MJ, Nelson SP, Perez-Atayde AR. Histopathology of the liver in children with chronic hepatitis C viral infection. *Hepatology* 1998; 28(5): 1416-23.
6. Backman V, Gurjar R, Badizadegan K, Dasari R, Itzkan I, Perelman LT, Feld MS. Polarized light scattering spectroscopy for quantitative measurement of epithelial cellular structures in situ. *IEEE J Select Top Quant Electron* 1999; 5(4): 1019-1026.
7. Dickinson BL, Badizadegan K, Wu Z, Ahouse JC, Zhu X, Simister NE, Blumberg RS, Lencer WI. Bidirectional FcRn-dependent IgG transport in a polarized human intestinal epithelial cell line. *J Clin Invest* 1999; 104(7): 903-911.
8. Willett CG, Badizadegan K, Ancukiewicz M, Shellito PC. Prognostic factors in stage T3N0 rectal cancer: do all patients require postoperative pelvic irradiation and chemotherapy? *Dis Colon Rectum* 1999; 42(2): 167-73.
9. Backman V, Perelman LT, Arendt JT, Gurjar R, Muller MG, Zhang Q, Zonis G, Kline E, McGillican T, Valdez T, Van Dam J, Wallace M, Badizadegan K, Crawford JM, Fitzmaurice M, Kabani S, Levin H, Seiler M, Dasari RR, Itzkan I, Feld MS. Detection of pre-invasive cancer cells. *Nature* 2000; 406(6791): 35-6.
10. Badizadegan K, Dickinson BL, Wheeler HE, Blumberg RS, Holmes RK, Lencer WI. Heterogeneity of detergent insoluble membranes from human intestine containing caveolin-1 and ganglioside GM1. *Am J Physiol* 2000; 278(6): G895-914.

11. Wallace MB, Perelman LT, Backman V, Crawford JM, Fitzmaurice M, Seiler M, Badizadegan K, Shields SJ, Itzkan I, Dasari R, Van Dam J, Feld MS. Endoscopic detection of dysplasia in patients with Barrett's esophagus: A prospective study. **Gastroenterology** 2000; 119(3): 677-82.
12. Yang C, Wax A, Georgakoudi I, Hanlon E, Badizadegan K, Dasari RR, Feld MS. Interferometric phase dispersion microscopy. **Optics Lett** 2000; 25: 1526-1528.
13. Badizadegan K, Wolf A, Rodighiero C, Jobling M, Hirst TR, Holmes RK, Lencer WI. Floating cholera toxin into epithelial cells: functional association with caveolae-like detergent-insoluble membrane microdomains. **Int J Med Microbiol** 2000; 290(4-5): 403-8.
14. Georgakoudi I, Jacobson BC, Van Dam J, Backman V, Wallace MB, Muller MG, Zhang Q, Badizadegan K, Sun D, Thomas G, Feld MS. Fluorescence, reflectance and light scattering spectroscopies for evaluating dysplasia in patients with Barrett's esophagus. **Gastroenterology** 2001; 120(7): 1620-9.
15. Yang C, Wax A, Hahn MS, Badizadegan K, Dasari RR, Feld MS. Phase-referenced interferometer with subwavelength and subhertz sensitivity applied to the study of cell membrane dynamics. **Optics Letters** 2001; 26(16): 1271-3.
16. Gurjar RS, Backman V, Perelman LT, Georgakoudi I, Badizadegan K, Itzkan I, Dasari RR, Feld MS. Imaging human epithelial properties with polarized light-scattering spectroscopy. **Nature Med** 2001; 7(11):1245-8.
17. Backman V, Gopal V, Kalashnikov M, Badizadegan K, Gurjar RS, Wax A, Georgakoudi I, Mueller MG, Boone CW, Dasari RR, Feld MS. Measuring cellular structure at submicrometer scale with light scattering spectroscopy **IEEE J Select Top Quant Electron** 2001; 7(6):887-893.
18. Georgakoudi I, Jacobson BC, Muller MG, Badizadegan K, Sheets EE, Crum CP, Carr-Locke DL, Dasari RR, Feld MS. NADH and collagen as quantitative fluorescent biomarkers for endoscopic detection of pre-cancers. **Cancer Res** 2002; 62(3):682-687.
19. Georgakoudi I, Sheets EE, Muller MG, Backman V, Crum CP, Badizadegan K, Dasari RR, Feld MS. Trimodal spectroscopy for detection and characterization of cervical pre-cancers *in vivo*. **Am J Obstet Gynecol** 2002; 186(2):374-382.
20. Kneipp K, Haka A, Kneipp H, Badizadegan K, Yoshizawa N, Boone CW, Shafer K, Motz J, Dasari RR, Feld MS. Surface-enhanced Raman spectroscopy in single living cells using gold nanoparticles. **Applied Spectroscopy** 2002; 56(2):150-154.
21. Wax A, Yang C, Backman V, Badizadegan K, Boone CW, Dasari RR, Feld MS. Cellular organization and substructure measured using angle-resolved low-coherence interferometry. **Biophys J** 2002; 82(4):2256-64.
22. Teitelbaum J, Fox VL, Nurko S, Twargo FJ, Antonioli D, Gleich G, Badizadegan K, Furuta GT. Eosinophilic esophagitis in children: Immunological analysis and response to fluticasone propionate. **Gastroenterology** 2002; 122:1216-1225.

23. Fox VL, Nurko S, Teitelbaum JE, Badizadegan K, Furuta GT. High resolution endosonography in children with eosinophilic “allergic” esophagitis. ***Gastrointest Endosc*** 2003; 57:30-36.
24. Badizadegan K, Backman V, Boone CW, Crum CP, Dasari RR, Georgakoudi I, Keefe K, Munger K, Shapshay SM, Sheets EE and Feld MS. Spectroscopic diagnosis and imaging of invisible pre-cancer. ***Faraday Discuss*** 2004; 126:265-279.
25. Nurko S, Teitelbaum JE, Husain K, Buonomo C, Fox VL, Antonioli D, Fortunato C, Badizadegan K, Furuta GT. Association of Schatzki ring with eosinophilic esophagitis in children. ***J Pediatr Gastroenterol Nutr*** 2004; 38:436-41.
26. Popescu G, Deflores LP, Badizadegan K, Vaughan JC, Iwai H, Dasari RR, Feld MS. Fourier phase microscopy for investigation of biological structure & dynamics. ***Optics Lett*** 2004; 29(21):2503-5.
27. Iwai H, Fang-Yen C, Popescu G, Wax A, Badizadegan K, Dasari RR, Feld MS. Quantitative phase imaging using actively stabilized phase shifting low-coherence interferometry. ***Optics Lett*** 2004; 29(20):2399-401.
28. Fogt F, Brown CA, Badizadegan K, Zimmerman RL, Odze R. Low prevalence of loss of heterozygosity and SMAD4 mutations in sporadic and familial juvenile polyposis syndrome-associated juvenile polyps. ***Am J Gastroenterol*** 2004; 99(10):2025-31.
29. Badizadegan K, Wheeler HE, Fujinaga, Lencer WI. Trafficking of cholera toxin-ganglioside GM₁ complex into the Golgi and the induction of toxicity depend on the actin cytoskeleton. ***Am J Physiol - Cell Physiol*** 2004; 287(5):C1453-62.
30. Ahn A, Yang C, Wax A, Popescu G, Fang-Yen C, Badizadegan K, Dasari RR, Feld MS. Harmonic phase-dispersion microscope with a Mach-Zehnder interferometer. ***Appl Optics*** 2005; 44(7):1188-90.
31. Desai TK, Stecevic V, Chang CH, Goldstein NS, Badizadegan K, Furuta GT. Association of eosinophilic esophagitis with esophageal food impaction in adults. ***Gastrointest Endosc*** 2005; 61(7): 795-801.
32. Andrews DC, Anupindi S, Badizadegan K. A 4-week old male with jaundice, thrombocytopenia, and abdominal distension. Case Records of the Massachusetts General Hospital. ***New Eng J Med*** 2005; 353(2): 189-98.
33. Chung DC, Korzenik J, Digumarthy S, Badizadegan K. A 43-year-old man with lower gastrointestinal bleeding. Case Records of the Massachusetts General Hospital. ***New Eng J Med*** 2005; 353(17): 1836-44.
34. Popescu G, Ikeda T, Badizadegan K, Dasari RR, Feld MS. Erythrocyte structure and dynamics quantified by Hilbert phase microscopy. ***J Biomed Optics*** 2005; 10(6):060503.
35. Popescu G, Badizadegan K, Dasari RR, Feld MS. Observation of dynamic subdomains in red blood cells. ***J Biomed Optics*** 2006; 11(4):040503.

36. Lue N, Popescu G, Ikeda T, Dasari RR, Badizadegan K, Feld MS. Live cell refractometry using microfluidic devices. **Optics Lett** 2006; 31(18):2759-61.
37. Hunter M, Backman V, Popescu G, Kalashnikov M, Boone CW, Wax A, Gopal V, Badizadegan K, Stoner GD, Feld MS. Tissue Self-Affinity and Polarized Light Scattering in the Born Approximation: A New Model for Precancer Detection. **Phys Rev Lett** 2006; 97(13):138102.
38. Yu C-C, Lau C, Tunnell J, Hunter M, Kalashnikov M, Fang-Yen C, Fulgum S, Badizadegan K, Dasari RR, Feld MS. Assessing epithelial cell nuclear morphometry using azimuthal light scattering spectroscopy. **Optics Lett** 2006; 31(21):3119-21.
39. Park Y, Popescu G, Badizadegan K, Dasari RR, Feld MS. Diffraction phase and fluorescence microscopy. **Opt Express** 2006 Sep 4;14(18):8263-8.
40. Kradin RL, Badizadegan K, Auluck P, Korzenik J, Lauwers GY. Iatrogenic Trichuris suis infection in a patient with Crohn's disease. **Arch Pathol Lab Med** 2006;130(5):718-20.
41. Popescu G, Ikeda T, Goda K, Best CA, Laposata M, Manley S, Dasari RR, Badizadegan K, Feld MS. Optical measurement of cell membrane tension. **Phys Rev Lett** 2006; 24;97(21):218101.
42. Lue N, Choi W, Popescu G, Ikeda T, Dasari RR, Badizadegan K, Feld MS. Quantitative phase imaging of live cells using fast Fourier phase microscopy. **Appl Optics** 2007; 46(10):1836-42.
43. Park Y, Popescu G, Badizadegan K, Dasari RR, Feld MS. Fresnel particle tracing in three dimensions using diffraction phase microscopy. **Optics Lett** 2007; 32(7):811-3.
44. Lue N, Bewersdorf J, Lessard MD, Badizadegan K, Dasari RR, Feld MS, Popescu G. Tissue refractometry using Hilbert phase microscopy. **Optics Lett** 2007; 32(24):3522-4.
45. Choi W, Fang-Yen C, Badizadegan K, Oh S, Lue N, Dasari RR, Feld MS. Tomographic phase microscopy. **Nature Methods** 2007; 4(9):717-9. Epub 2007 Aug 12.
46. Amin MS, Park Y, Lue N, Dasari RR, Badizadegan K, Feld MS, Popescu G. Microrheology of red blood cell membranes using dynamic scattering microscopy. **Opt Express** 2007; 15(25):17001-9.
47. Popescu G, Park Y, Badizadegan K, Dasari RR, Feld MS. Coherence properties of red blood cell membrane motions. **Phys Rev E** 2007; 76(3 Pt 1):031902. Epub 2007 Sep 7.
48. Choi W, Fang-Yen C, Badizadegan K, Dasari RR, Feld MS. Extended depth of focus in tomographic phase microscopy using a propagation algorithm. **Optics Lett** 2008; 33(2):171-3.
49. Popescu G, Park Y, Choi W, Dasari RR, Feld MS, Badizadegan K. Imaging red blood cell dynamics by quantitative phase microscopy. **Blood Cells Mol Dis** 2008; 41(1):10-6.
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