

Curriculum Vitae

Matthew I. Goldsmith, M.D.

Date: 07/16/2017 08:34 PM

Personal Information

Birthplace: Urbana, IL
Citizenship: USA

Address and Telephone Numbers

University: Washington University in St. Louis
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Department of Pediatrics
Critical Care Medicine
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Present Positions

Associate Professor of Pediatrics, Critical Care Medicine
Associate Professor of Pediatrics and Genetics

Education and Training

1987 BS, Anatomy and Physiology, University of Toronto, Toronto, Canada
1990 MSc, Anatomy and Cell Biology, University of Toronto, Toronto, Canada
1995 MD, University of Toronto

1995 - 1998 Resident, Pediatrics, St. Louis Children's Hospital, St. Louis, MO
1998 - 1999 Chief Resident, Pediatrics, St. Louis Children's Hospital, St. Louis, MO
1999 - 2002 Fellow, Pediatric Critical Care Medicine, Washington University School of Medicine/St. Louis Children's Hospital, St. Louis, MO
2014 - 2014 Solutions for Patient Safety, St. Louis Children's Hospital, St. Louis, MO
2015 - 2015 Program for Leading Innovation in Healthcare and Education, Harvard Macy Institute, Cambridge, MA
2015 - 2015 Lean Leader Training, St. Louis Children's Hospital, St. Louis, MO
2017 - 2017 Academic Medical Leadership Program for Physicians and Scientists, Washington University School of Medicine/Olin Business School/BJC Healthcare

Academic Positions and Employment

1995 - 1998 Resident, Pediatrics, Washington University/St. Louis Children's Hospital, St. Louis, MO
1998 - 1999 Chief Resident, Pediatrics, Washington University/St. Louis Children's Hospital, St. Louis, MO
1999 - 2002 Fellow, Pediatric Critical Care Medicine, Washington University/St. Louis Children's Hospital, St. Louis, MO
2002 - 2006 Instructor, Department of Pediatrics and Genetics, Washington University in St. Louis, St. Louis, MO
2006 - 2015 Assistant Professor, Department of Pediatrics and Genetics, Washington University in St. Louis, St. Louis, MO
2015 - Pres Associate Professor of Pediatrics and Genetics, Washington University in St. Louis, St. Louis, MO
2016 - Pres Associate Professor of Pediatrics, Critical Care Medicine, Washington University in St. Louis, St. Louis, MO

Appointments and Committees

National Appointments

2007 - 2009 Council Member, Midwest Society for Pediatric Research
2009 - 2010 President, Midwest Society for Pediatric Research
2010 - 2011 Past President, Midwest Society for Pediatric Research

Local Appointments

2014 - Pres Critical Care Task Force, Mid-America Transplant Services

University Affiliations

2004 - 2014 Director, Pediatric Critical Care Fellowship Program, Washington University School of Medicine
2006 - Pres Member, Division of Biology and Biomedical Sciences, Washington University School of Medicine
2008 - Pres Member, Steering Committee, Graduate Program in Medical Genetics and Genomics, Washington University School of Medicine
2014 - Pres Medical Director, Pediatric Intensive Care Unit, Division of Pediatric Critical Care Medicine, Department of Pediatrics, Washington University School of Medicine
2014 - 2016 Co-chair, Clinical Leadership Group, Division of Pediatric Critical Care Medicine, Department of Pediatrics, Washington University School of Medicine

Hospital Affiliations

2002 - Pres Full-Time Medical Staff, St. Louis Children's Hospital
2012 - 2016 Member, Unit-Based Joint Practice Team Subcommittee, St. Louis Children's Hospital
2014 - Pres Co-Director, Unit-Based Joint Practice Team, Pediatric Intensive Care Unit, St. Louis Children's Hospital
2014 - Pres Medical Director, Pediatric Intensive Care Unit, St. Louis Children's Hospital
2014 - Pres Member/Critical Care Medicine Representative, Trauma Physician Peer Review Committee, St. Louis Children's Hospital
2014 - Pres Leader, St. Louis Children's Hospital Clinical Care Work Group for Ebola Planning
2014 - Pres Member, St. Louis Children's Hospital Physician Advisory Group, Ebola Incident Command Team
2014 - Pres Member, St. Louis Children's Hospital Physician Advisory Council
2015 - Pres Member, Capital Committee, St. Louis Children's Hospital
2015 - Pres Member, Pharmacy & Therapeutics Committee, St. Louis Children's Hospital
2015 - Pres Member, End-Of-Life Subcommittee, PICU Unit Based Joint Practice Team, St. Louis Children's Hospital
2015 - Pres Member, ECMO Anticoagulation Subcommittee, St. Louis Children's Hospital
2015 - Pres Member, ECMO Steering Committee, St. Louis Children's Hospital
2016 - Pres Member, Allied Health Professionals Subcommittee, St. Louis Children's Hospital
2016 - Pres Member, CMEC Quality & Safety Subcommittee, St. Louis Children's Hospital
2017 - Pres Member, Antibiotic Stewardship Subcommittee, St. Louis Children's Hospital
2017 - Pres Member, Hospital Operations Subcommittee, St. Louis Children's Hospital

Thesis Committees (*Chair) Advisor

2006 - 2009 Julie Green Matthew Goldsmith
2008 - 2011 Shalon Babbitt Dan Goldberg

Scholarship Oversight Committees

2006 - 2008 Rachel Charney* (Advisor: Matthew Goldsmith)
2008 - 2011 Ivy Lin (Advisor: Matthew Goldsmith)
2014 - 2016 Kimberley Powell (Advisor: Mary Hartman)
2014 - 2016 Ashley Steed (Advisor: Thaddeus Stappenbeck)
2015 - Pres Jonah Atteberry (Advisor: Mark manary)
2016 - Pres Meghan Kendall* (Advisor: Matthew Goldsmith)

Licensure and Certifications

1996 - Pres MO #109041
1999 - 2016 Pediatrics
2002 - Pres Pediatric Critical Care
2014 - Pres Advanced Cardiac Life Support
2014 - Pres Basic Life Support
2014 - Pres Pediatric Advanced Life Support

Honors and Awards

1986	Ann Shepard Memorial Scholarship for Biology
1986	Daniel Wilson Scholarship for Physiology/Biochemistry
1987	Margaret J. Santalo Memorial Scholarship for Physiology
1987	NSERC Summer Research Scholarship
1988 - 1989	University of Toronto Open Graduate Fellowship
1988 - 1990	Ontario Graduate Scholarship
1989 - 1990	MRC (Canada) Studentship
1991 - 1992	Dr. R.E. Haist Award in Physiology
1991 - 1995	Dean's Honor Roll in Medicine
1992	Robert and Annie McDonnell Trust Fund Research Scholarship
1992 - 1993	Dr. C.S. Wainwright Memorial Scholarship
1993	MDS Scholarship in Laboratory Medicine
1993	MRC (Canada) Summer Research Scholarship
1994	Alpha Omega Alpha Honor Medical Society
1994	Dr. Carl Witus Prize in Pediatrics
1994	Merck Sharp and Dohme Award
1995	Cody Gold Medal (graduated 1st overall, School of Medicine, class of 1995)
1995	Ellen Mickle Fellowship
2000 - 2003	Pediatric Scientist Development Award
2000 - 2004	HHMI Young Investigator Award
2003 - 2006	Mallinckrodt Foundation Award
2004 - 2005	Clinical Nutrition Research Unit Award
2004 - 2006	Scholar of the Child Health Research Center of Excellence in Developmental Biology
2006	James Sutherland Award for Outstanding Research by a Young Investigator
2007 - Pres	Best Doctors in St. Louis
2007 - Pres	Best Doctors in America

Editorial Responsibilities

Editorial Ad Hoc Reviews

2009 - Pres	Developmental Biology
2009 - Pres	Developmental Dynamics
2009 - Pres	Mechanisms of Development
2009 - Pres	PLoS ONE

Professional Societies and Organizations

Midwest Society for Pediatric Research, Past President
Society for Critical Care Medicine
Society for Developmental Biology
Society for Pediatric Research

Major Invited Professorships and Lectures

2003	Department of Biology, Case Western Reserve University
2003	Molecoolz Advanced Graduate Course
2003	Pediatric Grand Rounds, Washington University School of Medicine
2003	Pediatric Research Retreat, Washington University School of Medicine
2003	Child Nutrition Research Center, Baylor College of Medicine
2004	Genetic and Developmental Basis of Pediatric Disease, Washington University School of Medicine
2004	NIH Child Health Research Center Annual Meeting, Skamania Lodge, WA
2005	Molecoolz Advanced Graduate Course
2006	Pediatric Grand Rounds, Washington University School of Medicine
2007	Advanced Graduate Course in Molecular Genetics, Washington University School of Medicine
2007	Program in Vascular Biology, UTSW Medical School, Dallas, TX
2008	Advanced Graduate Course in Molecular Genetics, Washington University School of Medicine
2008	Department of Pediatrics Case Conference, Washington University School of Medicine
2009	3rd Strategic Conference for Zebrafish Investigators, Asilomar, CA
2009	Louis Avioli Bone Conference, St. Louis, MO
2010	Osteogenesis Imperfecta Foundation Scientific Meeting
2010	Pediatric Grand Rounds, Washington University School of Medicine
2012	64th American Association for Laboratory Animal Science National Meeting, Minneapolis, MN
2013	Annual Meeting of the Latvian Society of Anesthesiology and Intensive Care Medicine, Riga, Latvia
2013	Pediatric Grand Rounds, Riga Stradins University, Riga, Latvia
2013	65th American Association for Laboratory Animal Science National Meeting, Baltimore, MD
2015	Visiting Professor, Riga Stradins University, Riga, Latvia
2016 - 2017	Visiting Professor, Riga Stradins University, Riga, Latvia

Research Support

Non-Governmental Support

(Goldsmith) CD&I Planned Adaptation Of The I-Pass Framework For Pediatric Intensive Care Unit Discharges	9/1/2016- 8/31/2017
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Completed Support

K08 HD046656 NIH Growth Control in the Zebrafish During Development	4/1/2004- 3/31/2009
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K12 HD-001487 NIH Scholar of the Child Health Research Center in Developmental Biology at Washington University	7/1/2004- 6/30/2006
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K12 HD-00850 NIH Research Fellow Growth Control in the Zebrafish, Danio rerio	7/1/2000- 6/30/2003
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CDI Interdisciplinary Research Initiative	1/1/2012- 12/31/2014
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Research Award MOD Characterization of Rapunzel: A Novel protein Important in Growth Control	6/1/2008- 5/31/2012
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Seed Grant Children's Brittle Bone Foundation and Osteogenesis Imperfecta Foundation Children's Brittle Bone Foundation and Osteogenesis Imperfecta Foundation	7/1/2009- 6/30/2010
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Mallinckrodt Foundation The Endothelium and Growth Control in the Zebrafish	6/1/2003- 5/31/2006
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Young Investigator Award HHMI Growth Control in Zebrafish	7/1/2000- 6/30/2004
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U01 (Goldsmith) NIH Acute Liver Failure Study Group Goals: To collect and analyze clinical data and biological specimens from pediatric patients with acute liver failure.	9/1/2010- 8/31/2015
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Current Trainees

2016	Kendall, Meghan, DO, Clinical Research Trainee, Nutrition in the PICU
2014	Kyle McNerney, MD, House Staff, Pediatrics

Past Trainees

2005 - 2008 Charney, Rachel MD, Postdoctoral Fellow
Study area: Zebrafish Regeneration
Present position: Assistant Professor, St. Louis University, Department of Pediatrics/Cardinal Glennon Children's Hospital, St. Louis, MO, USA

2009 - 2011 Gong, Bendi PhD, Postdoctoral Fellow
Study area: Growth & Development in Zebrafish
Present position: Senior Scientist, Washington University School of Medicine, Department of Pediatrics, St. Louis, MO, USA

2004 - 2006 Taylor, Jennifer PhD, Postdoctoral Fellow
Study area: Zebrafish Growth and Development

2011 - 2012 Balmaks, Reinis MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Department of Pediatrics, Riga Stradins University, Riga, Latvia

2009 - 2010 Bar, Amir MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, St. Christopher's Hospital for Children, Department of Pediatrics, Philadelphia, PA, USA

2013 - 2016 Barker, Erin MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2008 - 2011 Behrens, Deanna MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor of Clinical Pediatrics, Division of Critical Care Medicine, University of Illinois College of Medicine at Chicago, Chicago, IL, USA

2006 - 2009 Capers, Celeste MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Instructor, Washington University School of Medicine, Department of Pediatrics/St. Louis Children's Hospital, St. Louis, MO, USA

2001 - 2004 Chavolla, Mara MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Attending Physician, Pediatric Intensive Care Unit, Maimonides Medical Center, Brooklyn, NY, USA

2009 - 2014 Davila, Sam MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine & Infectious Diseases
Present position: Assistant Professor, University of Texas Southwestern, Department of Pediatrics/Children's Medical Center of Dallas, Dallas, TX, USA

2004 - 2007 Dean, Nathan MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, George Washington University/Children's National Medical Center, Washington, DC, USA

2008 - 2011 Emke, Amanda MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Washington University School of Medicine, Department of Pediatrics/St. Louis Children's Hospital, St. Louis, MO, USA

2000 - 2005 Gazit, Avihu MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine and Pediatric Cardiology
Present position: Assistant Professor, Department of Pediatrics, Washington University School of Medicine, Department of Pediatrics/St. Louis Children's Hospital, St. Louis, MO, USA

2009 - 2012 Ghafoor, Saad MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Member, St. Jude Faculty, St. Jude Children's Research Hospital, Department of Pediatric Medicine, Memphis, TN, USA

2011 - 2014 Guilliams, Kristin MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Instructor, Washington University School of Medicine, Departments of Pediatrics and Neurology/St. Louis Children's Hospital, St. Louis, MO, USA

2005 - 2008 Jason Werner, MD, Clinical Fellow
Study area: Pediatric Critical Care
Present position: Assistant Professor, St. Louis University, Department of Pediatrics/Cardinal Glennon Children's Hospital, St. Louis, MO, USA

2007 - 2009 Kulikowska, Agnieszka MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, University of Illinois College of Medicine at Peoria, Department of Pediatrics, Peoria, IL, USA

2002 - 2005 Lin, Ada MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Ohio State University/Nationwide Children's, Department of Pediatrics, Columbus, OH, USA

2008 - 2011 Lin, Jiuann-Huey (Ivy) MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Fellow, Pediatric Cardiology, University of Indiana, Department of Pediatrics/Riley Children's Hospital, Indianapolis, IN, USA

2001 - 2005 Lin, Nancy MD, Clinical Fellow
Study area: Pediatric Critical Care & Pediatric Cardiology
Present position: Private Practice, Pediatric Cardiology, Las Vegas, NV, USA

2012 - 2015 Maguire, Courtney MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor of Pediatrics, St. Louis University, St. Louis, MO USA

2010 - 2013 Majcina, Ryan MD, Clinical Fellow
Study area: Pediatric Critical Care
Present position: Assistant Professor, Southern Illinois University, Department of Pediatrics, Springfield, IL, USA

2013 - 2016 Malone, Jay MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2009 - 2011 McBride, Mary MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Northwestern University, Department of Pediatrics/Lurie Children's Hospital, Chicago, IL, USA

2007 - 2011 Miller-Smith, Laura MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, University of Missouri-Kansas City School of Medicine/Children's Mercy, Kansas City, MO, USA

2006 - 2011 Neumayr, Tara MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine & Pediatric Nephrology
Present position: Instructor, Washington University School of Medicine, Department of Pediatrics/St. Louis Children's Hospital, St. Louis, MO, USA

2010 - 2013 Potera, Renee MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, University of Texas Southwestern, Department of Pediatrics/Children's Medical Center of Dallas, Dallas, TX, USA

2013 - 2016 Powell, Kimberley MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2011 - 2014 Quispe, Marco MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Clinical Assistant Professor, Louisiana State University, Department of Pediatrics, Shreveport, LA, USA

2012 - 2015 Said, Ahmed MD, PhD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2011 - 2014 Saini, Arun MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Le Bonheur Children's Hospital/University of Tennessee Health Science Center, Department of Pediatrics, Memphis, TN, USA

2011 - 2014 Santana, Darline MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Fellow, Cardiac Critical Care, The Heart Program at Miami Children's Hospital, Miami, FL, USA

2013 - 2016 Sigdel, Binayak MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2012 - 2016 Steed, Ashley MD, PhD, Clinical Fellow
Study area: Pediatric Critical Care Medicine

2009 - 2012 Vellore-Govardhan, Shilpa MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Attending Physician, Phoenix Children's Hospital, Phoenix, AZ, USA

2012 - 2013 Waldrup, William MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Washington University School of Medicine, Department of Anesthesia/St. Louis Children's Hospital, St. Louis, MO, USA

2011 - 2013 Welch, Timothy MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Assistant Professor, Washington University School of Medicine, Department of Anesthesia/St. Louis Children's Hospital, St. Louis, MO, USA

2009 - 2012 York, Jennifer MD, Clinical Fellow
Study area: Pediatric Critical Care Medicine
Present position: Attending Physician, Pediatric Critical Care, Mercy Hospital, St. Louis, MO, USA

2010 - 2014 Buchan, Jillian PhD, Graduate Student
Study area: Zebrafish Model of Scoliosis
Present position: Clinical Genetics Fellow, Harvard University, Boston, USA

2005 - 2008 Green, Julie, Graduate Student
Study area: Zebrafish Growth & Development

2010 - 2010 Bleher, Barbara BSc, Rotation Student
Study area: Growth and Development in Zebrafish

2013 - 2014 Burgert, Lydia BSc, Rotation Student
Study area: Zebrafish Model of Scoliosis

2013 - 2013 Castro, Raisa Reyes, Rotation Student
Study area: Zebrafish Model of Scoliosis
Present position: Undergraduate Student, University of Puerto Rico, San Juan, Puerto Rico

2012 - 2012 Cavaco, Nanea, Rotation Student
Study area: Growth Control in Zebrafish

2012 - 2013 Hadi, Mackenzie, Rotation Student
Study area: Growth Control in Zebrafish

2007 - 2007 Schoeller, Erica, Rotation Student
Study area: Growth Control in Zebrafish

2011 - 2014 Alison Curfman, MD, House Staff
Study area: Pediatrics
Present position: Fellow, Pediatric Emergency Medicine, Washington University School of Medicine/St. Louis Children's Hospital, St. Louis

2007 - 2010 Jeffrey Huo, MD, House Staff
Study area: Pediatrics
Present position: Fellow, Pediatric Oncology, Johns Hopkins, Baltimore

2009 - 2012 Katherine Wu, MD, House Staff
Study area: Pediatrics

2012 - 2015 Kelli Boelens, MD, House Staff
Study area: Pediatrics

2010 - 2013 Laura Hall, MD, House Staff
Study area: Pediatrics

2013 - 2016 Richard Markus, MD, House Staff
Study area: Pediatrics

2010 - 2012 Allen, Casey, Other
Study area: Growth and Development in Zebrafish

2009 - 2011 Chatman, Clell, Other
Study area: Growth Control in Zebrafish

2013 - 2013 Del Valle, Karina, Other
Study area: Growth Control in Zebrafish
Present position: Undergraduate Student, Washington University, St. Louis, USA

2013 - 2013 Hua, Jennifer, Other
Study area: Growth Control in Zebrafish
Present position: Undergraduate Student, Washington University, St. Louis, USA

2007 - 2009 Karue, Grace Julie BA, Other
Study area: Growth Control in Zebrafish
Present position: Nursing Student, Northeastern University, Boston, USA

2011 - 2011 Moore, Kelsey, Other
Study area: Growth Control in Zebrafish

2009 - 2009 Noriega, Manuela, Other
Study area: Growth Control in Zebrafish

2010 - 2010 Pruden, Roy, Other
Study area: Growth Control in Zebrafish

Clinical Responsibilities

2002 - Pres Attending Physician, Pediatric Intensive Care Unit, Department of Pediatrics, Division of Critical Care Medicine, Washington University School of Medicine & St. Louis Children's Hospital

2014 - Pres ECMO Transport Team, Member, Department of Pediatrics, Division of Critical Care Medicine, St. Louis Children's Hospital

Teaching Responsibilities

2002 - 2006 Instructor, Instructor in Pediatrics

2004 - Pres Lecturer, Medical Genetics, Washington University School of Medicine

2005 Course Faculty, Advanced Genetics

2005 Course Faculty, Molecoolz

2006 - 2015 Assistant Professor in Pediatrics

2006 Course Faculty, Advanced Genetics

2007 Course Faculty, Advanced Genetics

2008 Course Faculty, Advanced Genetics

2010 Course Faculty, Annual Pediatric Critical Care Medicine Boot Camp, Philadelphia, PA

2011 Course Faculty, Annual Pediatric Critical Care Medicine Boot Camp, Philadelphia, PA

2012 Course Faculty, Annual Pediatric Critical Care Medicine Boot Camp, Philadelphia, PA

2013 Facilitator, Sessions on Shock/Septic Shock, Capstone

2013 Course Faculty, Annual Pediatric Critical Care Medicine Boot Camp, Philadelphia, PA

2014 Facilitator, Sessions on Shock/Septic Shock, Capstone

2014 Course Faculty, Annual Pediatric Critical Care Medicine Boot Camp, Philadelphia, PA

2015 Facilitator, Sessions on Shock/Septic Shock, Capstone

2015 - Pres Associate Professor of Pediatrics

2016 Facilitator, Sessions on Shock/Septic Shock, Capstone

2016 Course Faculty, First Annual Midwest Pediatric Critical Care Medicine Boot Camp, St. Louis, MO

Publications

1. Goldsmith M, van der Kooy D. Separate non-cholinergic descending projections and cholinergic ascending projections from the nucleus tegmenti pedunculo-pontinus. *Brain Res.* 1988;445(2):386-91. PMID:[2453253](#)
2. Goldsmith M, Connolly JA, Kumar N, Wu J, Yarbrough LR, van der Kooy D. Conserved beta-tubulin binding domain for the microtubule-associated motors underlying sperm motility and fast axonal transport. *Cell Motil Cytoskeleton.* 1991;20(3):249-62. doi:[10.1002/cm.970200308](#) PMID:[1723030](#)
3. Goldsmith M, Leyland S, Connolly JA, van der Kooy D. A unique tubulin antiserum attenuates the rate of poleward chromosome movement in anaphase. *Eur J Cell Biol.* 1992;58(2):346-55. PMID:[1425771](#)
4. Goldsmith M, Yarbrough L, van der Kooy D. Mechanics of motility: distinct dynein binding domains on alpha- and beta-tubulin. *Biochem Cell Biol.* 1995;73(9-10):665-71. PMID:[8714687](#)
5. Goldsmith MI, Fisher S, Waterman R, Johnson SL. Saltatory control of isometric growth in the zebrafish caudal fin is disrupted in long fin and rapunzel mutants. *Dev Biol.* 2003;259(2):303-17. PMID:[12871703](#)
6. Goldsmith MI, Iovine MK, O'Reilly-Pol T, Johnson SL. A developmental transition in growth control during zebrafish caudal fin development. *Dev Biol.* 2006;296(2):450-7. doi:[10.1016/j.ydbio.2006.06.010](#) PMID:[16844108](#)
7. Green J, Taylor JJ, Hindes A, Johnson SL, Goldsmith MI. A gain of function mutation causing skeletal overgrowth in the rapunzel mutant. *Dev Biol.* 2009;334(1):224-34. doi:[10.1016/j.ydbio.2009.07.025](#) PMID:[19632218](#)
8. Schuettpeitz LG, Behrens D, Goldsmith MI, Druley TE. Severe ceftriaxone-induced hemolysis complicated by diffuse cerebral ischemia in a child with sickle cell disease. *J Pediatr Hematol Oncol.* 2009;31(11):870-2. doi:[10.1097/MPH.0b013e3181b7eda2](#) PMID:[19829151](#)
9. Oppedal D, Goldsmith MI. A chemical screen to identify novel inhibitors of fin regeneration in zebrafish. *Zebrafish.* 2010;7(1):53-60. doi:[10.1089/zeb.2009.0633](#) PMID:[20384483](#)
10. Ha K, Buchan JG, Alvarado DM, McCall K, Vydyanath A, Luther PK, Goldsmith MI, Dobbs MB, Gurnett CA. MYBPC1 mutations impair skeletal muscle function in zebrafish models of arthrogryposis. *Hum Mol Genet.* 2013;22(24):4967-77. doi:[10.1093/hmg/ddt344](#) PMID:[23873045](#)
11. Said A, Hmiel P, Goldsmith M, Dietzen D, Hartman ME. Successful use of plasma exchange for profound hemolysis in a child with loxoscelism. *Pediatrics.* 2014;134(5):e1464-7. doi:[10.1542/peds.2013-3338](#) PMID:[25349320](#)
12. Buchan JG, Gray RS, Gansner JM, Alvarado DM, Burgert L, Gitlin JD, Gurnett CA, Goldsmith MI. Kinesin family member 6 (kif6) is necessary for spine development in zebrafish. *Dev Dyn.* 2014;243(12):1646-57. doi:[10.1002/dvdy.24208](#) PMID:[25283277](#)

Book Chapters (most recent editions)

1. Ahmed S. Said, Kara Kniska, Matthew I. Goldsmith, and Nikoleta S. Kolovos. Patient Safety in Pediatrics. In: Emily Fondahn, Michael Lane, and Andrea Vannucci, eds. *The Washington Manual of Patient Safety and Quality Improvement* Philadelphia: Wolters Kluwer; 2016:Chapter 24.

Abstracts

1. Matthew I. Goldsmith, Richard Waterman and Stephen L. Johnson . *Saltation and stasis: growth control in the zebrafish fin*. 5th International Conference on Zebrafish Development and Genetics; 2002.
2. M. Kathryn Iovine, Matthew I. Goldsmith and Stephen L. Johnson . *Size and shape of zebrafish fins*. 5th International Conference on Zebrafish Development and Genetics; 2002.
3. Matthew I. Goldsmith, M. Kathryn Iovine and Stephen L. Johnson. *A developmental transition in growth control mechanisms during zebrafish caudal fin development*. 6th International Conference on Zebrafish Development and Genetics; 2004.
4. Matthew I. Goldsmith, M. Kathryn Iovine and Stephen L. Johnson. *A developmental transition in growth control mechanisms during zebrafish caudal fin development*. Strategic Conference of Zebrafish Investigators: Mount Desert Island Biological Laboratory, Maine; 2005.
5. Matthew I. Goldsmith, M. Kathryn Iovine and Stephen L. Johnson. *A developmental transition in growth control mechanisms during zebrafish caudal fin development*. 4th European Zebrafish Genetics and Development Meeting; 2005.
6. Crystal Dao, Casey Allen and Matthew I. Goldsmith.). *A pharmacologic screen to uncover novel pathways in fin regeneration*. 7th International Conference on Zebrafish Development and Genetics; 2006.
7. Matthew I. Goldsmith, Kathryn M. Iovine and Stephen L. Johnson . *Nutrition, metabolism and growth: A developmental transition during zebrafish caudal fin development*. 7th International Conference on Zebrafish Development and Genetics; 2006.
8. Matthew I. Goldsmith, M. Kathryn Iovine and Stephen L. Johnson . *A developmental transition from nutrient-resistant to nutrient-sensitive growth during zebrafish caudal fin development*. Second Strategic Conference of Zebrafish Investigators: Asilomar, CA; 2007.
9. Jennifer J. Taylor, Anna Hindes, Eva Maria Siepert, Stephen L. Johnson and Matthew I. Goldsmith. *Dissecting the genetic and physiologic basis of growth control in the rapunzel mutant*. 5th European Zebrafish Genetics and Development Meeting; 2007.
10. Jennifer J. Taylor, Julie Green, Stephen L. Johnson and Matthew I. Goldsmith . *A gain of function mutation causing skeletal overgrowth in the rapunzel mutant*. 8th International Conference on Zebrafish Development and Genetics; 2008.
11. Julie Green, Jennifer J. Taylor and Matthew I. Goldsmith. *Exploring the role of rapunzel in growth and development*. 8th International Conference on Zebrafish Development and Genetics; 2008.
12. Julie Green, Patricia Jeremais, Stephen L. Johnson and Matthew I. Goldsmith. *A gain of function mutation causing skeletal overgrowth in the rapunzel mutant*. Third Strategic Conference of Zebrafish Investigators: Asilomar, CA; 2009.
13. Darline Santana, Natalie Villafranco and Matthew I. Goldsmith . *Severe malnutrition and refeeding syndrome in a child with neurologic disability*. SCCM; 2012.
14. Jillian G. Buchan, John M. Gansner, Bendi Gong, Christina A. Gurnett and Matthew I. Goldsmith. *Whole genome sequencing in skolios, a zebrafish mutant with progressive curvature of the vertebral column*. 10th International Conference on Zebrafish Development and Genetics; 2012.
15. Kyungsoo Ha, Jillian Buchan, David Alvarado, Kevin McCall, Anupama Vydyanath, Pradeep K. Luther, Matthew I. Goldsmith, Matthew Dobbs, Christina Gurnett. *Mybpc1 mutations impair skeletal muscle function in zebrafish models of arthrogryposis*. Washington University School of Medicine; 2013.
16. Jillian G. Buchan, Christina A. Gurnett and Matthew I. Goldsmith. *Cloning and characterization of skolios, a zebrafish idiopathic scoliosis mutant*. Pediatric Academic Societies Annual Meeting: Washington, DC; 2013.