

**Jennifer M. Iklé**

Division of Pediatric Endocrinology and Diabetes Stanford University  
300 Pasteur Drive Room G-313, Stanford CA, 94305  
ikle@stanford.edu

**EDUCATION AND TRAINING**

Fellow, Pediatric Endocrinology and Diabetes  
July 2017 – June 2020

St. Louis Children's Hospital, Washington University, St. Louis, MO 63110  
*Fellowship completion date: June 30, 2020*

Resident, Pediatrics

June 2014-June 2017

St. Louis Children's Hospital, Washington University, St. Louis, MO 63110

Doctor of Medicine

August 2006-May 2014

University of Colorado Denver, Aurora, CO 80045

Doctor of Philosophy, Cells, Stem Cells and Developmental Biology

August 2006-May 2012

University of Colorado Denver, Aurora, CO 80045

Thesis: "Novel mechanisms regulating the Endothelin signaling pathway in mouse and zebrafish craniofacial development."

Bachelor of Science, Biology, *summa cum laude*

August 2001-May 2005

University of New Mexico, Albuquerque, NM 87196

Undergraduate Honors Thesis: "Cardiac Expression of the *Drosophila Transglutaminase (CG7356)* Gene Is Directly Controlled by Myocyte Enhancer Factor-2."

**CERTIFICATIONS AND LICENSURE**

American Board of Pediatrics – Certified in General Pediatrics, October 2017-present

Missouri Medical License: #2017015295

National Provider Identifier: #1770998031

**PROFESSIONAL EXPERIENCE**

Teacher/Tutor - Albuquerque, NM and Denver, CO

Kaplan Test Prep, 2005-2008

Research Technician - Albuquerque, NM

University of New Mexico Department of Biology, May 2005-July 2006

Undergraduate Research Assistant - Albuquerque, NM

University of New Mexico Department of Biology, January 2004-May 2005

## PUBLICATIONS

Emfinger CH, Lőrincz R, Wang Y, York NW, Singareddy, SS, **Iklé JM**, Tryon RC, McClenaghan C, Shyr ZA, Huang Y, Reissaus CA, Meyer D, Piston DW, Hyrc K, Remedi MS, and Nichols CG. (2019). Beta-cell excitability in zebrafish islets. *Physiological Reports*, 7(11):e14101, PMID:31161721.

**Iklé JM**, Tavares AL, King M, Ding H, Colombo S, Firulli BA, Firulli AB, Targoff KL, Yelon D, Clouthier DE (2017). Nkx2.5 regulates endothelin converting enzyme-1 during pharyngeal arch patterning. *Genesis*, 55:e23021. PMID:28109039

**Iklé JM**, Artinger KB, Clouthier DE (2012). Identification and characterization of the zebrafish pharyngeal arch-specific enhancer for the basic helix-loop-helix transcription factor Hand2. *Dev Biol*, 368:118-126. PMID:22595513

Wang Z, Wilhelmsson C, Hyrsi P, Loof TG, Dobes P, Klupp M, Loseva O, Mörgelin M, **Iklé J**, Cripps RM, Herwald H, Theopold U. (2010). Pathogen Entrapment by Transglutaminase - A Conserved Early Innate Immune Mechanism. *PLoS Pathogens*, 12:31000763. PMID:20169185

**Iklé J**, Elwell JA, Bryantsev AL, Cripps RM. (2008). Cardiac Expression of the *Drosophila Transglutaminase (CG7356)* Gene is Directly controlled by Myocyte Enhancer Factor-2. *Dev Dyn*, 237:20902099. PMID:18627097.

## ORAL PRESENTATIONS

“Using zebrafish to model congenital hyperinsulinism and KATP channel dependent insulin secretion.” Pediatric Endocrine Society Annual Meeting. Fort Worth, TX. April 24-27, 2020. Accepted for oral presentation; conference canceled due to *Coronavirus*.

“CRISPR generated Kir6.2 mutation leads to transient neonatal diabetes in zebrafish.” Sixth Annual Endocrine Fellows Foundation Research Forum. Southlake, TX. February 6-8, 2020.

“Developing a zebrafish model of congenital hyperinsulinism.” Endocrine Fellow Research Day. St. Louis, MO. December 12, 2019.

“Going rogue: gonadotropin-independent precocious puberty.” Metabolism, Obesity, and Diabetes seminar, oral presentation. Washington University, St. Louis, MO. October 24, 2019.

“Using zebrafish to understand disorders of insulin secretion.” Pediatric Molecular Medicine Seminar. St. Louis, MO. October 10, 2019.

“Modeling of congenital hyperinsulinism in zebrafish.” Updates in Diagnosis and Management of Hyperinsulinism and Neonatal Hypoglycemia. Philadelphia, PA. September 6, 2019.

“Generation and analysis of a zebrafish model of K<sub>ATP</sub>-dependent neonatal diabetes.” Endocrine Fellow Research Day. St. Louis, MO. May 9, 2019.

“Techniques for direct imaging of beta-cell activity and glucose homeostasis in zebrafish.” Department of Pediatrics Annual Research Retreat. St. Louis, MO. April 5, 2019.

“Generation and analysis of a zebrafish model of K<sub>ATP</sub>-dependent insulin secretion” Endocrine Fellow Research Day. St. Louis, MO. December 13, 2018.

“Pour some sugar on me”. Jennifer Iklé and Ana Maria Arbelaez. Department of Pediatrics Clinical Case Conference. St. Louis, MO. December 4, 2018.

“Generation and analysis of a zebrafish model of  $K_{ATP}$ -dependent insulin secretion.” Pediatric Fellows early in research talk. St. Louis, MO. November 13, 2018.

“Beckwith-Wiedemann Syndrome.” Metabolism, Obesity, and Diabetes seminar, oral presentation. Washington University, St. Louis, MO. October 11, 2018.

“Neonatal Hypoglycemia.” Jennifer Iklé and Ana Maria Arbelaez. NICU fellow education seminar. St. Louis, MO. September 5, 2018

“Using zebrafish to identify novel regulators of glucose dependent insulin secretion.” Endocrine Fellow Research Day. St. Louis, MO. May 10, 2018.

“Congenital Hyperinsulinism.” Metabolism, Obesity, and Diabetes seminar. Washington University, St. Louis, MO. March 15, 2018.

“Using zebrafish to identify novel regulators of glucose dependent insulin secretion.” Endocrine Fellow Research Day. St. Louis, MO. December 7, 2017.

## **POSTER PRESENTATIONS**

“Imaging of beta-cell activity and modeling of neonatal diabetes in zebrafish.” **Jennifer M. Iklé**, Rob C. Tryon, Wenbiao Chen, Colin G. Nichols. Diabetes Day Research Symposium. St. Louis, MO. November 7, 2019.

“Imaging of beta-cell activity and modeling of neonatal diabetes in zebrafish.” **Jennifer M. Iklé**, Rob C. Tryon, Wenbiao Chen, Colin G. Nichols. CIMED research day. St. Louis, MO. May 8, 2019.

“Techniques for direct imaging of beta-cell activity and glucose homeostasis in zebrafish.” **Jennifer M. Iklé**, Rob C. Tryon, Christopher H. Emfinger, Krzysztof Hyrc, Maria S. Remedi, Colin Nichols. ENDO 2019. New Orleans, LA. March 23, 2019.

“Techniques for direct imaging of beta-cell activity and glucose homeostasis in zebrafish.” **Jennifer M. Iklé**, Rob C. Tryon, Christopher H. Emfinger, Krzysztof Hyrc, Maria S. Remedi, Colin G. Nichols. Diabetes Day Research Symposium. St. Louis, MO. November 8, 2018.

“The role of Ece1 in zebrafish craniofacial development.” Marisol King, **Jennifer Iklé**, and David E. Clouthier. Dental Student Research Competition. Aurora, CO. September 28, 2012.

“Nkx2.5 is a novel regulator of ventral arch patterning.” **Jennifer Iklé**, and David E. Clouthier. Cell Biology, Stem Cells, and Development Annual Retreat. Estes Park, CO. October 14-15, 2011.

“Nkx2.5 regulates *hand2* expression in the zebrafish pharyngeal arches via a conserved enhancer.” **Jennifer Iklé**, Kristin B. Artinger and David E. Clouthier. 70<sup>th</sup> Annual Meeting for Society for Developmental Biology. Chicago, IL. July 21-25, 2011.

"Transcriptional regulation of *hand2* in zebrafish neural crest cells and cardiomyocytes." **Jennifer Iklé**, and David E. Clouthier. School of Dental Medicine Research Day. Aurora, CO. February 17, 2011.

"Transcriptional regulation of *hand2* in zebrafish neural crest cells and cardiomyocytes." **Jennifer Iklé**, and David E. Clouthier. Cell Biology, Stem Cells, and Development Annual Retreat. Estes Park, CO. October 1-2, 2010.

"Transcriptional regulation of *hand2* in zebrafish neural crest cells and cardiomyocytes." **Jennifer Iklé** and David E. Clouthier. 69th Annual Meeting for Society for Developmental Biology. Albuquerque, NM. August 5-9, 2010.

"Transcriptional regulation of *hand2* in zebrafish neural crest cells and cardiomyocytes." **Jennifer Iklé** and David E. Clouthier. 25th Annual MD-PhD Student Conference. Keystone, CO. July 23-25, 2010.

"Transcriptional regulation of *hand2* in zebrafish neural crest cells and cardiomyocytes." **Jennifer Iklé** and David E. Clouthier. NHLBI Physician-Scientists Trainees Conference. Bethesda, MD. May 9-12, 2010.

"Signaling mechanisms regulating lower jaw development." **Jennifer Iklé**, and David E. Clouthier. Cell Biology, Stem Cells, and Development Annual Retreat. Vail, CO. October 2-3, 2009.

"Signaling mechanisms regulating lower jaw development." **Jennifer Iklé** and David E. Clouthier. 6th European Zebrafish Genetics and Development Meeting. Rome, Italy. July 15-19, 2009.

"Signaling mechanisms regulating lower jaw development." **Jennifer Iklé**, and David E. Clouthier. School of Dental Medicine Research Day. Aurora, CO. February 18, 2009.

"Signaling mechanisms regulating lower jaw development." **Jennifer Iklé**, and David E. Clouthier. Cell Biology, Stem Cells, and Development Annual Retreat. Vail, CO. October 3-4, 2008.

"Regulation of *CG7356* expression in the *Drosophila* dorsal vessel." **Jennifer Iklé** and Richard M. Cripps. 2<sup>nd</sup> Annual Undergraduate Research Symposium. Albuquerque, NM. April 2005.

## **FUNDING**

Pediatric Endocrine Society Clinical Scholar Award (2020, awarded but declined due to overlap in funding)

Pediatric Endocrine Society Research Fellow Award (7/2019-6/2020)

Endocrine Fellows Foundation Research Grant (11/2018-11/2019)

Julio Santiago Memorial Fellowship (7/2018-12/2019)

Physician Scientist Training Grant, T32HD043010-15, PI: Gary Silverman (4/1/18-present)

Diabetes and Related Metabolic Diseases Training Grant, T32DK007120, PI: Clay Semenkovich (2017, awarded but declined due to overlap in funding)

NHLBI/NIGMS Graduate Research Fellowship, T32GM8497-19S1, PI: Arthur Gutierrez-Hartmann (2009-2012)

## **AWARDS**

Updates in Diagnosis and Management of Hyperinsulinism and Neonatal Hypoglycemia  
Conference Travel Award (July 2019)

Department of Pediatrics Annual Research Retreat, Best Basic Science Abstract (April 2019)

Endocrine Society ENDO Experience Travel Award (March 2019)

Invited to compete in the Endocrine Society's Presidential Poster Competition for a first-authored  
top-scoring abstract for presentation at the Annual Meeting & Expo (March 2019)

St. Louis Children's Hospital President's Award (November 2015)

St. Louis Children's Hospital Chief Resident Award (October 2015)

St. Louis Children's Hospital High Five Award (March 2016)

Cells, Stem Cells, and Development program retreat, Student poster award (2011)

C. Werner and Kitty Hirs Research Travel Award (2011)

Society for Developmental Biology Travel Award (2011)

Carl Storm Fellowship Travel Award (2010)

Biological Society of New Mexico, Outstanding Graduating Senior Award (2005)

## **OUTREACH AND ADVOCACY**

American Diabetes Association Camp EDI – Planning committee (2019-present)

HealthWorks! Diabetes Subcommittee – Chair (2019-present)

American Diabetes Association Camp EDI – Medical staff (2016, 2017, 2018, 2019)

SLCH Pediatric diabetes support group – Organizing committee (2017-present)

Diabetes in the school setting educational presentation – Presenter (August 2018, November  
2018)

Annual Caregiver Diabetes class – Presenter (2017, 2018, 2019)

American Academy of Pediatrics Legislative Conference – Attendee (2017, 2018)

Caring for Transgender Youth – Creator/Presenter (2016)

## **MEMBERSHIPS AND ACTIVITIES**

American Diabetes Association (2020-present)

Endocrine Society – Member (2018-present)

Pediatric Endocrine Society – Member (2017-present)

American Academy of Pediatrics – Member (2013-present)