CURRICULUM VITAE

Patrice Karyn Held, PhD, FACMG

OFFICE ADDRESS

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CURRENT POSITION

2013-current — Co-Director of Wisconsin Newborn Screening Laboratory
Co-Director of Biochemical Genetics Laboratory
Wisconsin State Laboratory of Hygiene
Assistant Professor, Department of Pediatrics
University of Wisconsin, School of Medicine and Public Health

EDUCATION

2011-2012 — Ronald Laessig Memorial Newborn Screening Fellow
Wisconsin State Laboratory of Hygiene

2005-2007 — Clinical Biochemical Genetics Fellow
National Institutes of Health

2000-2005 — Ph.D. Oregon Health & Science University
Department of Molecular and Medical Genetics

1996-2000 — Bachelor of Science University of Wisconsin-Madison
Major: Genetics

PREVIOUS POSITIONS

2011-2012 — Ronald Laessig Memorial Newborn Screening Fellow
Wisconsin State Laboratory of Hygiene
University of Wisconsin-Madison
Mentor: Dr. Mei Baker, MD

2007-2010 — Assistant Professor of Pathology (Clinical)
University of Utah School of Medicine
Assistant Medical Director, Biochemical Genetics Laboratory

2005-2007 — Clinical Biochemical Genetics Fellow
National Institutes of Health

	National Human Genome Research Institute Mentor: Dr. William Gahl, M.D., Ph.D.
2000-2005	Doctoral Degree in Molecular and Medical Genetics Oregon Health & Science University Department of Molecular and Medical Genetics Mentor: Dr. Markus Grompe, M.D.
Summer 2000	Research Laboratory Technician Mirus Bio Corporation Madison, Wisconsin Mentor: Dr. Hans Herweijer, Ph.D.
1999-2000	Undergraduate Research Student-Senior Honors Thesis University of Wisconsin, Madison Department of Biochemical and Molecular Genetics Mentor: Dr. Richard Pauli, M.D.
1997-1999	Undergraduate Research Student-Sophomore Honors Thesis University of Wisconsin, Madison Department of Biochemical and Molecular Genetics Mentor: Dr. Cary O. Harding, M.D.

TEACHING EXPERIENCE

Department of Molecular and Medical Genetics Oregon Health & Science University,
Guest lectured for *Essentials of Molecular and Medical Genetics* course. (Fall 2002, 2003, 2004)

Pathology Grand Rounds, Department of Pathology, University of Utah
Presentation of metabolic case studies (2007-2010)

Undergraduate Advisor/Mentor for University Research Opportunity Program (UROP), University of Utah (2009-2010)

Department of Medical Genetics, University of Wisconsin-Madison
Guest lectured for *Clinical Biochemical Genetics for Genetic Counselors (744)* (Fall 2012, Fall 2013, Fall 2014, Fall 2015)

Population Health Sciences, University of Wisconsin-Madison
Co-instructor for *Public Health Genomics (650 section 023)* (Summer 2015)

PROFESSIONAL MEMBERSHIPS AND COMMITTEES

2007-2010	Member of American Society of Human Genetics
2007-2010	Member of American Association of Clinical Chemists
2007-2011	Member of Society for Inherited Metabolic Disorders

2007-Present	Member of American College of Medical Genetics
2011-Present	Member of Association of Public Health Laboratories
2012-Present	Appointment to the Newborn Screening Genetics and Public Health (NBSGPH) committee
2012-Present	Appointment to the Maintenance of Certification (MOC) Committee through the American Board of Medical Genetics
2015-Present	Member of the Network of Laboratory Leadership Alumni (NOLLA)

INVITED PRESENTATIONS

2009	Invited presentation at the annual American Society of Mass Spectrometry Users meeting
2013	Invited presentation at the American Society for Clinical Laboratory Science (ASCLS) annual meeting
2014	Invited presentation at the Wisconsin Association for Perinatal Care (WAPC) annual meeting
2014	Invited presentation at the ACL laboratories seminar day
2014	Invited presentation at the St. Mary's Hospital-Madison Education Day
2014	Invited presentation at the Wisconsin Clinical Laboratory Network Regional Meeting

HONORS

1996-2000	*Magna Cum Laude*, Honor's Program, University of Wisconsin, Madison, Wisconsin
2011	Recipient of the Honorable Mention Award for the best poster competition at the Newborn Screening and Genetic Testing Symposium
2012	Travel award to the 2012 National Phenylketonuria Alliance conference
2014	Moderator for the session on *Timeliness in Newborn Screening* Newborn Screening Genetics and Public Health (NBSGPH) Symposium
2014	Nominated to the Emerging Leaders Program APHL

PUBLICATIONS

Jean JC, Harding CO, Oakes SM, Yu Q, **Held PK**, Joyce-Brady M. (1999 Jan). gamma-Glutamyl transferase (GGT) deficiency in the GGTenu1 mouse results from a single point mutation that leads to a stop codon in the first coding exon of GGT mRNA. *Mutagenesis*, *14*(1), 31-6.

Montini E, **Held PK**, Noll M, Morcinek N, Al-Dhalimy M, Finegold M, Yant SR, Kay MA, Grompe M. (2002 Dec). In vivo correction of murine tyrosinemia type I by DNA-mediated transposition. *Mol Ther*, *6*(6), 759-69.

Held P, Harding CO. (2003). L-2-oxothiazolidine-4-carboxylate supplementation in murine gamma-GT deficiency. *Free Radic Biol Med*, *34*(11), 1482-7.

Smyk-Pearson SK, Bakke AC, **Held PK**, Wildin RS. (2003 Aug). Rescue of the autoimmune scurfy mouse by partial bone marrow transplantation or by injection with T-enriched splenocytes. *Clin Exp Immunol*, *133*(2), 193-9.

Held PK, Olivares EC, Aguilar CP, Finegold M, Calos MP, Grompe M. (2005 Mar). In vivo correction of murine hereditary tyrosinemia type I by phiC31 integrase-mediated gene delivery. *Mol Ther*, *11*(3), 399-408.

Held PK, Al-Dhalimy M, Willenbring H, Akkari Y, Jiang S, Torimaru Y, Olson S, Fleming WH, Finegold M, Grompe M. (2006 Jan). In vivo genetic selection of renal proximal tubules. *Mol Ther*, *13*(1), 49-58.

Held PK. (2006 Jun). Disorders of tyrosine catabolism. *Mol Genet Metab*, *88*(2), 103-6.

Held PK, White L, Pasquali M. (2011) Quantitative urine amino acid analysis using liquid chromatography tandem mass spectrometry and aTRAQ® reagents. *J Chromatography B, 879(26),* 2695-2703.

Held PK, Haynes CA, De Jesus VR, Baker MW (2014) Development of an assay to simultaneously measure orotic acid, amino acids, and acylcarnitines in dried blood spots. *Clin Chim Acta, 436(C)*, 149-154.

Shapira SK, Hinton CF, **Held PK**, Jones E, Hannon WH, Ojodu J. (2015) Single newborn screen or routine second screening for primary congenital hypothyroidism. *Mol. Genet. Metab.* http://dx.doi.org/10.1016/j.ymgme.2015.08.003

Held PK, Shapira SK, Hinton CF, Jones E, Hannon WH, Ojodu J. (2015) Congenital adrenal hyperplasia cases identified by newborn screening in one- and two-screen states, *Mol. Genet. Metab.* http://dx.doi.org/10.1016/j.ymgme.2015.08.004

ABSTRACTS

Oral Presentations

Held PK, White L, Schwarz E, Pasquali M. *Pediatric Reference Ranges for Urine Amino Acids: A Comparison between Ion-Exchange Chromatography and a LC-MS/MS Method.* Presented at Society for Inherited Metabolic Disorders 2010

Held PK, Baker M, Kurtycz D. *Cellular Distribution Within Newborn Screening Dried Blood Spots.* Presented to the Newborn Screening and Genetic Testing Symposium 2011

Held PK, Obernolte L, Hoffman G, Scott-Schwoerer, Rice G, Dimmock D, Baker M *Use of Dried Blood Spots for Dietary Monitoring of Phenylalanine in Patients with Phenylketonuria.* Presented to the Society for Inherited Metabolic Disorders 2012

Held PK, Obernolte L, Hoffman G, Scott-Schwoerer, Rice G, Dimmock D, Baker M *Use of Dried Blood Spots for Dietary Monitoring of Phenylalanine in Patients with Phenylketonuria.* Presented to the National PKU Alliance 2012

Hasadsri L, Rhead WJ, Nolan H, White AL, Baker M, **Held PK**, McDonald A, Highsmith WE, Oglesbee D, Rinaldo P, Matern D, Raymond K, Tortorelli S, Gavrilov D. *The Pitfalls of underivatized MS/MS for newborn screening: a case of malonic aciduria due to a novel deletion in intron 2 of the MLYCD gene.* Presented to the American College of Medical Genetics 2014.

Scott Schwoerer J, Rice G, Baker M, White AL, Dimmock D, **Held PK**. *Variable clinical phenotype of very long chain acyl CoA dehydrogenase deficiency (VLCADD) detected by newborn screening.* Presented to the American College of Medical Genetics 2014.

Held PK, Dawe S, Anderson A, Baker M, Brokopp CB, *Wisconsin's Approach to Addressing Quality Assurance within the Pre-Analytical Testing Phase of Newborn Screening* Presented to the Newborn Screening and Genetic Testing Symposium 2014

Scott Schwoerer J, Van Calcar S, Baker M, Rice G, Dimmock D, White AL, Carey L, **Held PK**. *VLCADD screening: Wisconsin's experience.* Presented to the Newborn Screening and Genetic Testing Symposium 2014.

Held PK, Burley L, Klawitter J, Brokopp C. *Interactive Training Webinar for Newborn Screening Specimen Collection.* Presented to the Association of Public Health Laboratories (APHL) annual meeting 2015.

Cosser A, Fitzgerald C. Fritzinger A, Gibson D, Hayden T, **Held P**, Hsieh K, Humphries S, Lopez D, Marine S, Mathis B, Musser K, Patel H, Ritchie M, Roney H, Simpson L, Vetter S. *Marketing Public Health Lab Careers to Middle School Students Through Educators.* Presented to the Association of Public Health Laboratories (APHL) annual meeting 2015.