Curriculum Vitae **Date: 1/6/17**

A.**Identifying data:**

Name:	Gregory Mark Enns, M.B., Ch.B.
Ethnicity:	Caucasian
Citizenship:	United States of America
Licensure:	California #A52095 Hawaii #MD12592 United Kingdom #3469202

B.**Academic History:**

Undergraduate:	B.A., Biology: May, 1984 Pomona College Pomona, CA August, 1980–May, 1984
Graduate:	Diploma, Medical Science: June, 1987 University of St. Andrews St. Andrews, Scotland September, 1985–June, 1987 M.B., Ch.B.: June, 1990 University of Glasgow Glasgow, Scotland September, 1987–June, 1990
Honors and Awards:	Kellogg Foundation Scholarship, UC Davis, 1984 P.T. Herring Memorial Prize in Histology, University of St. Andrews, 1986 First Class Merit Certificates: Anatomy, Physiology, Biochemistry, General Pathology, Microbiology, and Pharmacology, University of St. Andrews, 1985-87 Neil Arnott Memorial Prize in Clinical Physics, University of Glasgow, 1988 University of Glasgow Clinical Travel Grant, for clinical studies in China and Nepal, 1988 C.H.L.A. Board of Directors Award for outstanding service as Pediatric Chief Resident, 1995 U.C.S.F. Liver Center Pilot/Feasibility Grant for Hepatic Gene Therapy Research, 1998 Pete and Arline Harman Scholarship, 2005

Stanford University School of Medicine Honor Roll for Teaching, 2005-2006
Distinguished Service Citation, American Academy of Pediatrics, 2011
Outstanding Service Citation, United Mitochondrial Disease Foundation, 2011
Stanford University School of Medicine Excellence in Teaching Citation, 2011–2012
PCARES Rose Award, Lucile Packard Children's Hospital, 2015

Post-Graduate Training: Junior House Officer, Pediatric Surgery
Royal Hospital for Sick Children, Yorkhill
Glasgow, Scotland
August, 1990–January, 1991

Junior House Officer, General Medicine
Glasgow Royal Infirmary
Glasgow, Scotland
January, 1991–June, 1991

Intern and Resident, Pediatrics
Children's Hospital of Los Angeles
Los Angeles, California
June, 1991–June, 1994

Chief Resident, Pediatrics
Children's Hospital of Los Angeles
Los Angeles, California
June, 1994–June, 1995

Fellow, Medical Genetics
University of California, San Francisco
San Francisco, California
June, 1995 – June, 1998

Board Certification: American Board of Pediatrics (10/12/94, 6/14/01, 11/06/08)
American Board of Medical Genetics, Diplomate, Clinical Genetics (9/1/99, 1/1/10)
American Board of Medical Genetics, Diplomate, Clinical Biochemical Genetics (9/1/99, 1/1/10)
ECFMG 0-447-053-0

Research/Contract Support:

RP103-MITO-001 (Enns) 10/08/14–09/30/16 3.18 CM
Raptor Pharmaceuticals $254,794
An Open-label, Dose-Escalating Study to Assess the Safety, Tolerability and Efficacy of Cysteamin Bitratrate Delayed-release capsules (RP103) for the Treatment of Children with Inherited Mitochondrial Disease
This is an open-label study focusing on the safety and preliminary efficacy of cysteamine bitatartrate to treat patients with Leigh syndrome and other inherited mitochondrial disorders.

RP103-MITO-002 (Enns) 07/20/15–05/31/17 1.66 CM
Raptor Pharmaceuticals $359,162
A Long-Term Open-Label Extension Study of RP103-MITO-001 to Assess the Safety, Tolerability and Efficacy of Cysteamine Bitratrate Delayed-release capsules (RP103) for the Treatment of Children with Inherited Mitochondrial Disease
This is an extension study for the RP103 protocol, a study using cysteamine bitartrate to treat patients with Leigh syndrome and other inherited mitochondrial disorders.

IND#107,401 (Enns) 12/09/13 – 11/3016 0.56 CM
Edison Pharmaceuticals $224,765
Long-Term Safety and Efficacy Evaluation of EPI-743 in Children with Leigh Syndrome
This is a long-term follow-up study to the Phase 2B randomized clinical trial in Leigh syndrome, the first randomized trial using a novel redox-modulating agent to treat mitochondrial disease.

EPI743 (Enns) 08/20/10–04/14/16 0.12 CM
Emergency Use Protocol for EPI-743 in Acutely Ill Patients with Inherited Mitochondrial Respiratory Chain Disease Within 90 Days of End-of-life Care
This is an emergency treatment protocol for mitochondrial disease patients using a novel redox-modulating agent.

SPO117002 (Enns) 04/01/15 – 03/31/16 0.24 CM
National Institutes of Health
Lumina Diagnostics, Inc.
Breath Ammonia Monitoring Device for Children with Urea Cycle Disorders
The goal of this project is to develop a novel breath sensor to measure ammonia in patients with urea cycle disorders.

1R01DK1028201A1 (Peltz) 01/01/15–12/31/17 0.60 CM
National Institutes of Health $382,029
Stem Cell-Based In vivo Models of Human Genetic Liver Diseases
The goal of this grant is to generate murine models of genetic liver diseases, including polymerase gamma deficiency and Alagille syndrome, using stem cell techniques to generate "humanized" liver tissue.

Data and Website (Enns) 07/01/09–06/30/16 0.12 CM
Genzyme Corporation $63,885
Gaucher, Fabry, MPS 1 and other Genetically Based Metabolic Disorders
This is a longitudinal registry program for lysosomal storage disorders.

LAL-CL02 (Enns) 05/31/13–03/31/17 0.60 CM
Synageva BioPharma Corp. $406,690
A Multicenter, Randomized, Placebo-Controlled Study of SBC-102 in Patients with Lysosomal Acid Lipase Deficiency.
This is a clinical trial using a novel enzyme replacement therapy to treat LAL deficiency.

GOS (Enns) 09/16/11–08/31/18 0.12 CM
Shire Human Genetics Therapies, Inc. $126,201
Gaucher Disease Outcome Survey (GOS)
This is a longitudinal registry program for Gaucher Disease.

NIH 14-GG006326 (Enns) 09/01/13–08/31/18 0.01 CM
North American Mitochondrial Disease Consortium $580
This is a registry program for mitochondrial disease patients.

Foundation Grant (Enns) 06/01/14–03/31/16 0.12 CM
Austin Memorial Foundation $45,873
A cell-based method for screening mitochondrial disease therapies.
This study focuses on the use of spectromicroscopy and tandem mass spectrometry to study fibroblasts obtained from mitochondrial disease patients.

C. **Employment History:**

Academic Appointments: Clinical Instructor, Pediatrics
University of Southern California
June, 1994–June, 1995

Clinical Instructor, Pediatrics
University of California, San Francisco
July, 1998–present

Assistant Professor of Pediatrics
Stanford University
October, 1998–October, 2006

Associate Professor of Pediatrics
Stanford University
November, 2006–May, 2015

Professor of Pediatrics
Stanford University
June, 2015–present

Administrative Appointments:

Director, Biochemical Genetics Program
Stanford University School of Medicine
October, 1998–present

Scientific Advisory Board, Genotyping Core
Stanford University School of Medicine
May, 2000–June, 2001

Co–Director, UCSF/Stanford Lysosomal Disease Center
Stanford University Medical Center
July, 2000–present

Director, Metabolic Special Care Center
Lucile Salter Packard Children's Hospital
June, 2001–present

Medical Consultant, Newborn Screening Area Service Center
Stanford University Medical Center
June 2003–present

Program Director, Medical Genetics Residency Training Program
Stanford University School of Medicine
September, 2007–April, 2013

Associate Program Director, Medical Genetics Residency Training Program
Stanford University School of Medicine
May, 2013–April, 2014

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