

## **CURRICULUM VITAE**

**Sakkapol (Zach) Ongwjitwat, M.D., Ph.D.**

**Community Physician Network**

**Orthopedic Specialty Care**

**7930 North Shadeland, Avenue**

**Indianapolis, IN 46250**

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### **Education:**

Doctor of Medicine, May 2007

Medical College of Wisconsin, Milwaukee, Wisconsin

Doctor of Philosophy in Biomedical Science, September 2005

Medical College of Wisconsin, Milwaukee, Wisconsin

Bachelor of Science, May 2000

Major in Biochemistry/Molecular Biology

Marquette University, Milwaukee, Wisconsin

### **Post-Graduate Education/Training:**

Fellowship in Adult reconstruction and Joint Preservation,

August 2013 – August 2014

Washington University

Department of Orthopaedic Surgery

St. Louis, Missouri

Orthopaedic Surgery Residency, July 2009 – June 2013

University of California, San Diego Medical Center

Department of Orthopaedic Surgery

San Diego, California

Orthopaedic Research Fellowship, July 2008 – June 2009

University of California, San Diego Medical Center

Department of Orthopaedic Surgery

San Diego, California

Mentor: Dr. Robert Sah, USCD Department of Bioengineering

Internship in General Surgery, July 2007 – June 2008

University of California, San Diego Medical Center

Department of General Surgery

San Diego, California

**Licensure:** State of Indiana License – April 2014 – present  
American Boards of Orthopedic Surgery, Board Certified 2016

**Fellowships:** Sports Medicine & Shoulder Fellowship  
Duke University Medical Center  
August 1999 – August 2000

**Honors:** Medical College of Wisconsin Award for Excellence in Biochemistry  
2007

**Professional Experience:** Orthopedic Surgeon, Joint Replacement and Joint Preservation, August  
2014 – present  
Community Physician Network  
Indianapolis, Indiana

Medical Director, January 2017 – present  
Center for Joint Health, Community East Hospital  
Indianapolis, Indiana

Clinical Preceptor, January 2015 – present  
Community Hospital East Family Medicine Residency  
Indianapolis, Indiana

Clinical Preceptor, 2014 – present  
Community Health Network Podiatric Surgery and Medicine  
Residency  
Indianapolis, Indiana

**Professional Society Membership:** American Academy of Orthopaedic Surgeons (AAOS)  
American Association of Hip and Knee Surgeons (AAHKS)  
Medical College of Wisconsin Medical Scientist Training Program  
Society for Neuroscience  
Physicians for Social Responsibility  
Student Affiliates of the American Chemical Society

**Administrative Service:** UCSD Graduate Medical Education Committee (GMEC) 2011

**Grant Support:** Orthopaedic Research and Education Foundation (OREF)  
Clinical Scientist  
Training Grant 2009 Mentor: Dr. Robert Sah. Completed  
AAOS Orthopaedic Board Preparation and Review Course  
Scholarship 2013. Completed.

**Lectures:**

UCSD Department of Orthopaedic Surgery Grand Rounds: "What is New in Periprosthetic Joint Infection?" June 20, 2012.

UCSD Department of Orthopaedic Surgery Grand Rounds: "Hip Arthroplasty in Young Adults." August 22, 2012.

Washington University Department of Orthopaedic Surgery Grand Rounds: "Prosthetic Joint Infections." September 18, 2013.

**Publications:****Peer Reviewed Publications:**

Dhar S.S., Ongwijitwat, S., Wong-Riley, M.T. Chromosome Conformation Capture of All 13 genomic Loci in the Transcriptional Regulation of the Multi-Subunit Bigenomic Cytochrome C Oxidase in Neurons. *J. Biol Chem.* July 10, 2009; 284(28): 18644-50.

Dhar S.S., Ongwijitwat, S., Wong-Riley M.T. Nuclear Respiratory Factor 1 Regulates All Ten Nuclear-Encoded Subunits of Cytochrome C. Oxidase in Neurons. *J. Biol Chem.* February 8, 2008; 283(6): 3120-9.

Liang, H.L., Ongwijitwat, S., Wong-Riley, M.T. Bigenomic Functional Regulation of All 13 Cytochrome C. Oxidase Subunit Transcripts in Rat Neurons in Vitro and in Vivo. *Neuroscience.* June 19, 2006; 140(1): 177-90.

Ongwijitwat, S., Wong-Riley, M.T. Is Nuclear Respiratory Factor 2 Senses Changing Cellular Energy Demands and Its Silencing Down-Regulates Cytochrome Oxidase and Other Target Gene mRNAs. *Gene.* June 7, 2006; 374: 39-49.

Ongwijitwat, S., Wong-Riley, M.T. Is Nuclear Respiratory Factor 2 A Master Transcriptional Coordinator for All Ten Nuclear-encoded Cytochrome C. Oxidase Subunits in Neurons? *Gene.* October 24, 2005; 360(1): 65-77.

Ongwijitwat, S., Wong-Riley, M.T. Functional Analysis of the Rat Cytochrome C Oxidase Subunit 6A1 Promoter in Primary Neurons. *Gene.* August 4, 2004; 337: 163-71.

**Book Chapters:**

Gonzales, F., Ongwijitwat, S., Hamilton, W. Direct Anterior Approach Total Hip Arthroplasty on a Specialized Traction Table. *THE HIP: Preservation, Replacement, and Revision.* James Cashman, Nitin Goyal, and Javad Parvizi Ed. Data Trace Publishing, MD, 2015.

Wong-Riley, M.T., Liang, H.L., Ongwijitwat, S. Activity-Dependent Bigenomic Transcriptional Regulation of Cytochrome C. Oxidase in Neurons. *Transcriptional Regulation by Neuronal Activity.* Serena Dudek Ed. Springer-Verlag New York, NY, 2007.

**Abstracts:**

Ongwjitwat, S., Liang, H.L., and Wong-Riley, M.T.T. Are all 13 subunits of Cytochrome C Oxidase Coordinately Regulated at the mRNA level by Depolarizing Stimulation? Soc. Neurosci. Abstr., #283.12, 2004.

Ongwjitwat, S., and Wong-Riley, M.T.T. Functional Analysis of Rat Cytochrome Oxidase Subunit 6A1 Gene Promoter in Primary Visual Cortical Neurons. Soc. Neurosci. Abstr., #861.7, 2003.

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