

SHAYNA EMILY OSHITA
PHD, RD, LDN, DCES

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EMPLOYMENT

UNIVERSITY OF ILLINOIS AT CHICAGO, CHICAGO, IL (2017-PRESENT)

Clinical Assistant Professor in the Department of Kinesiology & Nutrition
Director of the Coordinated Program in Dietetics

SODEXO, INC. – SINAI HEALTH SYSTEM, CHICAGO, IL (2010-2016)

Interim Director of Diabetes Services
Clinical Dietitian III – Outpatient Diabetes Educator and ADA Diabetes Program Coordinator
Clinical Dietitian II – Outpatient Diabetes Educator
Clinical Dietitian I – Inpatient General Medicine, Surgery, & Telemetry

EDUCATION

University of Illinois at Chicago, Chicago IL (2007-2009)

Master of Science, Coordinated Program of Human Nutrition

Northwestern University, Chicago IL (2001-2007)

Doctor of Philosophy, Integrated Graduate Program in the Life Sciences

The University of Illinois at Urbana-Champaign, Urbana IL (1997-2001)

Bachelor of Science, Biology with emphasis in neurobiology and psychology

TEACHING AND SERVICE

University of Illinois at Chicago

HN 505 – Advanced Topics in Diabetes Management
HN 420 – Clinical Diabetes Nutrition
HN 423/594 – Nutrition & Counseling
HN 355 & 455 – Supervised Practice
HLP 520, AHS 200, AHS 210 – Guest lecturer – Diabetes & Nutrition
CDC Diabetes Prevention Program Lifestyle Coach and Program Coordinator 2020
Medical School Colloquia – Diabetes & Nutrition
UIC Honors College Faculty Fellow 2019-present
College of Dentistry Inter-professional Education Project 2018-present
UIC Alumni Chat sessions 2016-2018

UI Health Ambulatory Quality Committee 2018-2019
Family Medicine PGY-2 Project Faculty Mentor 2018-2019
College of Nursing DNP Practice Mentor 2019

American Diabetes Association – Volunteer Educator 2008 to present
Camp Confidence
Caregiver Fair
ADA Expo 2016 – Presenter on healthy snacking for kids

Slam Dunk for Diabetes Basketball Camp – Volunteer 2010 to present

Northwestern University, Teaching Assistant - September 2003 to January 2004
Course: Lectures in Life Sciences

QUALIFICATIONS

Registered Dietitian Nutritionist – Registration ID No. 998673
Licensed Dietitian Nutritionist in Illinois – License No. 164005246
Diabetes Care and Education Specialist – Certificate No. 21220371
Certificate of Training in Adult Weight Management – Academy of Nutrition and Dietetics
ServSafe Certification – Expires 4/2/2023

RESEARCH

Dissertation Title: Inhibition of Caspases by the Small Heat Shock Protein, HspB2
ENDOCRINOLOGY, METABOLISM, AND MOLECULAR MEDICINE, NORTHWESTERN UNIVERSITY
FEINBERG SCHOOL OF MEDICINE, IL. (2001-2007)

HspB2 binds to DMPK and stabilizes its kinase activity, thereby accelerating the progression of muscular dystrophy. Although other binding partners of HspB2 have been found, the MKBP-DMPK interaction is only case where the function of HspB2 has been carefully analyzed. We have discovered a new anti-apoptotic function of HspB2 in a breast cancer model. Overexpression of HspB2 results in a novel inhibition of apoptosis in breast cancer cell lines. HspB2 inhibits apoptosis of both upstream and downstream caspases; however, mitochondrial cytochrome c release is not prevented by expression of HspB2. Furthermore, the presence of HspB2 confers partial protection from apoptosis induced by tBid expression. Finally, in correlation with in vitro experiments, expression of HspB2 confers resistance to xenograft tumor regression following treatment with TRAIL. In summary, HspB2 expression in breast cancer cells inhibits apoptosis induced by extrinsic pathway stimulants and this anti-apoptotic activity has been mapped to caspases downstream of the mitochondria. These studies describe a novel anti-apoptotic function for HspB2 as an inhibitor of caspases in breast cancer. Project under the direction of Vincent L. Cryns

Targeting T cells Against Tumors Using Biospecific Agents

DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, IL (2000-2001)

Therapeutic agents are designed to turn brain tumor cells into antigen presenting cells. Using an antibody against a T cell activating molecule on the surface of the T-cells, these cells chemically link a molecule that binds to the surface of the tumor cells. This research is developing a novel mouse brain tumor model in order to study brain-immune system interactions more closely. Project under the direction of Dr. Edward J. Roy

PUBLICATIONS

Oshita SE, Chen F, Kwan T, Yehiely F, Cryns VL. The small heat shock protein HspB2 is a novel anti-apoptotic protein that inhibits apical caspase activation in the extrinsic apoptotic pathway. *Breast Cancer Res Treat.* 2010 Nov; 124(2): 307–315.

Kamradt MC, Lu M, Werner ME, Kwan T, Chen F, Strohecker A, Oshita S, Wilkinson JC, Yu C, Oliver PG, Duckett CS, Buchsbaum DJ, LoBuglio AF, Jordan VC, Cryns VL. The small heat shock protein alpha B-crystallin is a novel inhibitor of TRAIL-induced apoptosis that suppresses the activation of caspase-3. *Journal of Biological Chemistry.* 2005;Mar 25;280(12):11059-66.

References available upon request.