Hariom Yadav, PhD
Associate Professor of Neurosurgery and Brain Repair
Director, USF Center for Microbiome Research, Microbiomes Institute
University of South Florida, Morsani College of Medicine, Tampa, Florida

ADDRESS

12901 Bruce B. Downs Boulevard, MDC2, Tampa, FL 33602
Office: 813-974-8222
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CITIZENSHIP

US Permanent Resident/ Green Card Holder

EDUCATION

National Dairy Research Institute, Haryana, India — 8/2003-12/2006
PhD
Biochemistry
Mentor: Dr. PR Sinha
Thesis: Probiotic dahi as a biotherapeutic agent for diabetes
Jiwaji University, Gwalior, Madhya Pradesh, India
2006

Master of Science (M.Sc.) — 7/1999-6/2001
Applied Biochemistry
2001
Jiwaji University, Gwalior, Madhya Pradesh, India

Bachelor of Science (B.Sc.) — 7/1996-6/1999
Biology
1999

POSTGRADUATE TRAINING

National Institutes of Health — 4/2007-12/2012
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Postdoctoral fellow
Cell biology and metabolic diseases
Mentor: Dr. Sushil G Rane

AWARDS, HONORS, HONORARY SOCIETY MEMBERSHIPS

Honors/Awards

Selected as 'Featured Researcher of CDOM' and highlighted in CDOM newsletter of September 2020 issue. — 2020

NIA Summer Trainee for Experimental Aging Research, Travel/Training Award, NIH — 2019

Butler-Williams Scholar on Aging Research, Travel/Training Award, NIH	2019
Best poster (in 50 selected from 6000 posters) for Scientific Highlights in EB 2019	2019
Best paper published in Year 2018 from Wake Forest School of Medicine	2019
Ramalingaswami Fellowship Award, Department of Biotechnology, Government of India	2012-2014
Best papers published in the field of cytokine biology from NIH and FDA	2012
Mead Johnson Young Investigator Award	2012
ASBMB 2012 Graduate/ Postdoctoral Travel Award	2012
American Physiological Society (APS) Research Recognition Award	2011
Fellows Award for Research Excellence	2010
Fellows Award for Research Excellence	2009
NIDDK Nancy Nossal Fellowship Award	2008
Fellows Award for Research Excellence	2008

Professional Society Memberships

Member of Alzheimer's Association	2021-Present
Member of the Gerontological Society of America	2019-Present
Member of the American Diabetes Association	2018- Present
Member of the American Society of Nutrition	2017-Present
Associate member of the Sigma Xi Scientific Society	2011-Present
Member of the American Physiological Society	2009-Present
Member of the Wake Forest CTSI Academy	2017-2018

APPOINTMENTS

University of South Florida (USF), Tampa, FL, USA

Director, USF Center for Microbiome Research	4/2021-Present
Associate Professor, Department of Neurosurgery and Brain Repair; and Internal Medicine- Digestive Diseases and Nutrition USF Morsani College of Medicine, Tampa, FL, USA	4/2021-Present
Faculty, USF Center of Excellence for Aging and Brain Repair	4/2021-Present
Faculty, USF Health Neuroscience Institute/ Byrd Alzheimer Center	4/2021-Present

Faculty, Moffit Cancer Center	12/2021-Present

Wake Forest School of Medicine (WFSM), Winston-Salem, NC, USA

Assistant Professor, Department of Internal Medicine- Molecular Medicine	1/2017-3/2021
Graduate School Faculty, Wake Forest University	1/2017-3/2021
Faculty of Molecular and Cell Biology Graduate Program	1/2017-3/2021
Faculty of Interdisciplinary Integrative Physiology and Pharmacology Graduate Program	1/2017-3/2021
Investigator of Center for Diabetes, Obesity and Metabolism	1/2017-3/2021
Investigator of Wake Forest Comprehensive Cancer Center	7/2017-3/2021
Investigator of Cardiovascular Sciences Center	5/2017-3/2021
Investigator of Redox Biology and Medicine	6/2017-3/2021
Investigator of Research on Substance Use and Abuse	7/2017-3/2021
Investigator of Sticht Center for Healthy Aging and Alzheimer's Prevention	8/2017-3/2021

National Institutes of Health, NIDDK, Bethesda, MD, USA

Scientist, Diabetes, Endocrinology and Obesity Branch, NIDDK, NIH	5/2014-12/2016

National Agro-Food Biotechnology Institutes, Mohali, Punjab, India

Ramalingaswami Fellow/ Scientist D (Nutritional Biotechnology)	12/2012-4/2014

Jiwaji University, Gwalior, Madhya Pradesh, India

Research Assistant, School of Studies in Biochemistry	7/2001- 8/2003

Subhash Chandra Bose College of Professional Studies, Gwalior, Madhya Pradesh, India

Assistant Professor (part-time), Department of Biotechnology	7/2001- 8/2003

TEACHING, LECTURE

I have significantly contributed to didactic courses for graduate (PhD), masters and undergraduate students in USA and India

University of South Florida, Tampa, FL, USA

Program name:	Medical Sciences **graduate** program	9/15/2021
Course name and number:	Aging and Neuroscience, GMS 6771 Class	
Lecture topic:	The microbiome in gut-brain axis	
Program name:	Medical Sciences **graduate** program	11/16/2021
Course name and number:	Neuroimmunology course	

Lecture topic: Gut-Brain Axis- How our gut and brain talks

Program name: Medical Sciences **MD** program 2/2/2022
Course name and number: Scholarly Concentrations Program (SCP)
Lecture topic: Gut-Brain Axis in brain health

Program name: Medical Sciences **gaduate** program
Course name and number: Stem cells and
Lecture topic: Gut-Brain Axis in brain health

Wake Forest School of Medicine, Winston-Salem, NC, USA

Program name: Molecular and Cell Biology **graduate** program 2/2020- 2/2021
Course name and number: Fundamentals of Bacteriology, MCB 732 Class
Lecture topic: The Microbiome in Bacterial Perspectives

Program name: Molecular Medicine and Translational Science **graduate** program 11/2019- 3/2021
Course name and number: Advance Course, MMTS 711/712 Classes
Lecture topic: The Microbiome: as therapy and biomarkers

Program name: Molecular and Cell Biology **graduate** program
Course name and number: Microbiology and Immunology advanced topics courses (MICR 749 and MICR 750) 8/2017- 3/2021
Lecture topic: Nature paper on microbiome, discussion

Program name: Molecular and Cell Biology **graduate** program 4/2018- 3/2021
Course name and number: The microbiome, MCB 701
Lecture topic: Introduction about microbiome

Program name: Molecular and Cell Biology **graduate** program 4/2018- 3/2021
Course name and number: The microbiome, MCB 702
Lecture topic: Microbiome- current perspectives

NIDDK, National Institutes of Health, Bethesda, MD, USA

Program name: Postbaccalaureate summer seminar series 6/2014- 8/2016
Course name and number: Journal Club
Lecture topic: Obesity, Diabetes and Nutraceuticals

National Agri-Food Biotechnology Institute, Mohali, Punjab, India

4/2013/3/2014

Program name: PhD program in Biotechnology
Course name and number: Cell Culture Systems, Nutrition and Human Health
Lecture topic: How cell culture systems can be used for nutrition and human health studies

3/2013/3/2014

Program name: Masters of Science Program
Course name and number: Pharma-Food and Nutraceutical Biotechnology

Lecture topic: How functional foods can improve human health

7/2001- 7/2003

Program name: Masters of Science in Biotechnology
Course name and number: Clinical Enzymology, SCB102
Lecture topic: Basic of clinical enzymology

7/2001- 7/2003

Program name: Bachelors of Science, Biotechnology
Course name and number: Biochemistry, SCB 104
Lecture topic: Fundamentals of Biochemistry

TEACHING, SUPERVISORY

I have mentored 7 postdoctoral fellows, 3 graduate (PhD), 2 masters, 7 MD students, 1 Medical Resident, 9 undergraduate and 3 high school students, and several international fellows/ faculty, who are highly successful in their next level of career and education goals, by becoming faculty, medical doctors, scientists, MD/graduate studies. Currently at USF, I am mentoring 2 postdoctoral fellows, 1 graduate student, 2 MD students and 3 under-graduate students.

University of South Florida, Tampa, FL, USA

Postdoctoral Fellows

Diptaraj Chaudhary, PhD, postdoctoral fellow, working on gut microbiome in drug responsiveness — 2/2022-present

Vinod Kumar Yata, PhD, Biological Scientist, working on precision microbiome project — 1/2022-present

Santosh Kumar, PhD, Postdoctoral fellow, working on a drug microbiome interactions for Alzheimer's disease — 12/2021-present

Sidharth P Mishra, Associate in Research, working on microbiome sensing mechanisms in brain health — 7/2021-present

Shaohua Wang, PhD, currently working with my group at USF, and started as post-doctoral fellow at Wake Forest School of Medicine — 7/2021-present

Atul M Chander, PhD, currently working with my group at USF, and started as a postdoctoral fellow, Wake Forest School of Medicine — 5/2021-1/2022
Currently: Postdoctoral fellow at Jet Propulsion Lab, NASA

MD students

Meera Nagpal, USF MCOM MD program (Class 2025) — 7/2021-present
Project title: *Developing Clinically Applicable Microbiome Scores*

Jimshad Farooque-Wooden, Wake Forest MD Candidate (Class 2024) via NIH funded Medical Student Research Program research training program. — 4/2021-8/2021
Project title: *Microbiome modulators in COVID-19 associated mortality.*

Natasha Ram, MD/PhD Candidate at USF — 4/2021-8/2021
Project title: *Microbiome modulators in age-related cognitive decline*.

Graduate Students

Brandi Miller, Graduate (PhD) student at the University of South Florida — 4/2021-Present
Major: Medical Sciences PhD program, with a concentration in Molecular Medicine

Undergraduate students

Mihir Kulkarni, Undergraduate (BS-MD candidate) — 03/2022-Present
University of South Florida

Juliana Madej, Undergraduate (BS candidate) — 08/2021-Present
University of South Florida

Manan Mahani, Undergraduate (BS-MD candidate) — 08/2021-Present
University of South Florida

Harris Choudhary, Undergraduate (BS-MD candidate) — 7/2021-Present
University of South Florida

Aleyssa D. Acevedo Collado, Undergraduate (B.A. in Psychology) — 6/2021-8/2021
Minors: Behavioral Healthcare & Nutrition
University of South Florida

Aniket Devgun, Undergraduate (Bachelor of Science) at the University of Maryland — 6/2021-8/2021
Major:

Samarpit Victor, Undergraduate (Bachelor of Science) at the University of South Florida — 6/2021-8/2021
Major: Cell and Molecular Biology

Wake Forest School of Medicine, Winston-Salem, NC, USA

Postdoctoral Fellows

Shaohua Wang, PhD, post-doctoral fellow, Wake Forest School of Medicine, Winston-Salem, NC. — 8/2017- 4/2021

Atul M Chander, PhD, postdoctoral fellow, Wake Forest School of Medicine, Winston-Salem, NC. — 2/2021- 5/2021

Ravinder Nagpal, PhD, post-doctoral fellow, Wake Forest School of Medicine, Winston-Salem, NC. — 6/2017-12/2020
Currently: Assistant Professor (tenure track), Florida State University, Tallahassee, FL

Atefeh Razazan, PhD, (Visiting Scientist), Tehran University of Medical Sciences, Enghelab St., Tehran, Iran — 2/2019- 8/2020
Currently: Postdoctoral Fellow in the West Virginia University, Morgantown, WV

Graduate Students

Aaron Deal, Molecular Medicine Graduate Program — 6/2017-Present
PhD Advisor: Leah Solberg, PhD
Role: Thesis committee member

MD Residents/Fellows

Olivia Louise Wells, M.D., Internal Medicine resident at the Wake Forest School of Medicine. — 3/2019- 4/2020
Project: *Gut-microbiome and metformin interactions in older adults.*

Last known position: Resident in Wake Forest School of Medicine

MD students

Isabella So, Wake Forest MD Candidate (Class 2022) summer trainee. — 6/2018- 3/2020
Project title: *Microbiome-metformin interactions in newly diagnosed type 2 diabetic patients.*

Chelsea G. Ledford, Wake Forest MD Candidate (Class 2021) via NIH funded Medical Student Research Program research training program. — 6/2018- 8/2018
Project title: *Food and mood: a combined gut-brain effort.*

Andrew Whang, Wake Forest MD Candidate (Class 2021) via NIH funded Medical Student Research Program research training program. — 6/2018- 8/2018
Project title: *Interactions of antidiabetic drugs and gut microbiome.*

Master's Students

Brandi Miller, Wake Forest School of Medicine's Master program candidate (Class 2020). — 6/2018-5/2020
Project title: *Gut microbiome influencing gut-brain communication to regulate food intake and obesity.*
Currently: PhD student in my lab at USF

Under-graduate Students

Rabina Mainali, BS (EICS Program Intern), Salem Community College, Winston-Salem, NC. — 7/2017- 9/2019
Project: *Development of probiotic yogurt from lactobacilli and enterococci*
Last known position: PhD Student in Wake Forest School of Medicine

K'la Sanders (Summer-Fall intern); Guilford Community College, Greensboro, NC. — 6/2018- 8/2018
Project: *Body shapes and metabolic risk*

High School Students

Halle Kincaid- Forsyth Country Day School, Lewisville, NC — 6/2018- 2/2020

Project: *Childhood obesity and gut microbiome*
Last known position: Undergraduate in UPenn

Ria Singh- Chantilly High School, Herndon, VA 6/2017-8/2018
Project: *Probiotics, obesity and aging*
Last known position: Undergraduate student in the US Air Force Academy

International Fellows/Faculty

Sidharth P Mishra, MVSC, PhD Candidate, West Bengal State University, India, working for 4 years collaborative program. 8/2018-present

Qingxin Zhou, PhD (Visiting Scientist), Institute of Agro-Food Science and Technology, Shandong Academy of Agricultural Sciences, China 2/2019-3/2020
Last known position: Scientist in China

Nitin Kumar Singhal, PhD., Fulbright Fellow/ Scientist D, National Agri-Food Biotechnology Institute, Mohali, Punjab, INDIA. 8/2018 -6/2019
Last known position: Scientist in India

Shokouh Ahmadi, PhD Candidate, Isfahan University of Technology, Iran. Project title: *Role of probiotics and prebiotics against aging* 9/2017-6/2019
Currently: Postdoctoral fellow in Canada

National Agri-Food Biotechnology Institute, Mohali, Punjab, India

Graduate Students

Stanzin Angmo, PhD candidate at National Agri-Food Biotechnology Institute, Mohali, Punjab, India. 2/2013- 4/2014
Project title: *Developing natural components to ameliorate iron deficiency.*

Shelley Sardul Singh, PhD candidate at National Agri-Food Biotechnology Institute, Mohali, Punjab, INDIA. 8/2013- 4/2014
Project title: *Isolation and characterization of new anti-diabetic/obese probiotics.*

Master's Students

Priyanka Chopra, Research Assistant, at National Agri-Food Biotechnology Institute, Mohali, Punjab, INDIA. 3/2013- 4/2014
Project title: *Development of probiotic dahi (Indian yogurt) using newly isolated probiotics.*

Rupali Mahajan, Master student for Food Biotechnology at National Agri-Food Biotechnology Institute, Mohali, Punjab, INDIA. 2/2013- 7/2013
Project title: *Development of low-fat probiotic yogurt (dahi) to ameliorate obesity and diabetes.*

Arun Malik, Research Assistant, National Agri-Food Biotechnology Institute, Mohali, Punjab, INDIA. 1/2013- 3/2014

Project title: *Development of CLA producing bacteria that can ameliorate the obesity and diabetes.*

National Institutes of Health, Bethesda, MD, USA

Under-graduate Students

Michael Shen- an under-graduate student from Duke University, Durham, NC — 6/2015- 8/2015
Project: *Role of TGF-beta signaling in adipose tissue biology*
Last known position: MD Candidate at Donald & Barbara Zucker School of Medicine, New York, NY

Anup Reddy – an under-graduate student from University of Illinois, Chicago, IL — 6/2009-8/2009
Project: *Role of TGF-β1/ Smad3 signaling in regulation of hepatic metabolism*
Last known position: MD Physician at Adventist Hinsdale Hospital, Chicago, IL

Danette Flint -Colgate University, NY — 6/2008- 8/2008
Project: *Role of TGF-β1/ Smad3 signaling in regulation of adipose*
Last known position: Resident Physician at Dartmouth-Hitchcock, Boston, MA

Kevin Wang –Colgate University, NY — 6/2007- 8/2007
Project: *Role of TGF-β1/ Smad3 signaling in regulation of adipose*
Last known position: Technician, Fred Hutchison Cancer Center, Seattle; MPH, George Washington School of Medicine, DC

High School Students

Samir Devalaraja- Thomas S Wootton High School, Rockville, MD — 3/2009- 12/2010
Project: *Development of diet induced (DIO) and diet resistance (DR) mice models*
Last known position: MD-PhD Candidate at the University of Pennsylvania

LECTURES BY INVITATION

My regional, national and international reputation is evident from the following >40 invited talks from different regional, national and international seminars, symposia and conferences.

Invited Speaker and Co-organizer, in the Brain & Brain PET 2022, which is scheduled to take place on May 29- June 1, 2022, in Glasgow, Scotland.. — May-June, 2022
Talk title: *Gut-brain axis in aging and neurodegeneration.*

Organizer and Speaker in the American Society of Neural Therapy and Repair to conduct a symposia on *Gut-Brain axis* on April 28- May 1, 2022 in Clearwater, FL, USA. — Apr-May, 2022
Talk title: *Microbiome in aging Gut and Brain (MiaGB) consortium: inviting collaborations to understand microbiome in aging.*

Invited Speaker in the International Webinar on " Innovations in Fermented Dairy Products" organized by NAHEP(IG), Faculty of Dairy Technology, West Bengal University of Animal and Fishery Sciences, West Bengal, India Talk title: Does any yogurt is good for diabetes and obesity?	3/10/2022
Invited Speaker, at the Biology Department, Global Publican, and Environmental Health and Picker Interdisciplinary Science Institute, Colgate University, Hamilton, NY, USA on March 8, 2022. Talk title: *Microbiome is Friend or Foe in Gut-Brain axis*	3/8/2022
Invited Speaker in the 2021 Southern Regional Conference, Fall 2021 (November 13), in Winston-Salem, NC. Talk title: *Gut microbiome in metabolic health, when we are aging*	11/13/2021
Invited Speaker in the *The 11th International Congress of Diabetes and Metabolism and The 13th AASD Scientific Meeting (2021 ICDM & AASD)* on October 9, 2021. Talk title: *Microbiome modulators in obesity and diabetes by improving calorie sensing*	10/9/2021
Invited Speaker in Webinar with The Institute for the Advancement of Food and Nutrition Sciences (IAFNS) - Protect your Brain by Taking Care of Your Gut on July 22, 2021. *Talk title:* your microbiome gut control of satiety in brain.	7/22/2021
Invited Speaker, in the Future of the Microbiome conference on March 23-25, 2021. *Talk title: Postbiotics: A New Chapter in the Gut and Human Health.*	3/24/2021
Invited speaker, in the Center for Diabetes, Obesity and Metabolism seminar series on March 2, 2021. *Title talk: The role of gut microbiome and its modulators in obesity/ diabetes by making our mind to sense how much to eat.*	3/2/2021
Invited speaker in the BRAAIN seminar series at Wake Forest Alzheimer's Disease Center on February 17, 2021. Talk title: *Can abnormalities in out gut make us loose our minds*.	2/17/2021
Invited speaker in the USF Microbiome and Immunology Hub webinar series at University of South Florida, Tampa, FL, on February 11, 2021. Title: *Abnormalities in our gut can make us lose our minds*.	2/11/2021
Invited Speaker in the 4th Microbiome Movement – Human Nutrition Summit, on November 11, 2020 online. Talk title: *Gut microbiota modulators in regulation of gut-brain axis.*	11/11/2020
Invited Speaker in the International Webinar Series Probiotics, Prebiotics and Gut Microbiota, on November 11, 2020 online. Talk title: *Role of microbiome and its modulators in aging-related disorders.*	11/11/2020

Invited Speaker in the International Webinar on Probiotics, Gut Microbiome and Immune Security, on October 07-08, 2020 online. Talk title: *Postbiotics an emerging arena in aging gut health*	10/7/2020
Invited Speaker at School of Biotechnology Rajiv Gandhi Proudyogiki Vishwavidyalaya and M.P. Council of Science and Technology, Bhopal, MP, India, on July 25, 2020. Talk title: *Gut microbiome modulators in metabolic diseases*	7/25/2020
Invited speaker scheduled to talk in '5th Microbiome Movement - Drug Development Summit, on 8-10 June, 2020 in Boston, MA. Talk title: *Drug-microbiome interactions in metabolic diseases.*	6/8/2020
Invited speaker at the School of Studies in Biochemistry, Jiwaji University, Gwalior, MP, India on January 30, 2020. Talk title: *Role of probiotics and prebiotics in regulation of energy metabolism*.	1/30/2020
Invited speaker at the Division of Animal Biochemistry, National Dairy Research Institute, Karnal, Haryana, India on January 25, 2020. Title of talk: *Contribution of gut microbiome modulators in aging-related metabolic diseases.*	1/25/2020
Invited speaker to talk on "Differential effects of dietary fibers on gut microbiome' in annual meeting of American Chemical Society Spring 2020 National Meeting in Philadelphia, PA on March 24, 2020. (Meeting was cancelled due to COVID-19)	3/24/2020
Invited lead speaker in Prebiotics Market Development symposia at 2019-Supply Side West- Las Vegas, NV, USA on October 18, 2019. Title of talk: *Evolving science related to strains, doses and potential areas of benefit.*	10/18/2019
Invited speaker at annual meeting of Wake Forest Alzheimer's Disease Research Center on October 11, 2019. Title of talk: *Gut microbiome in gut brain axis.*	10/11/2019
Invited speaker in the seminar series entitled "*Gut Microbiome: A Goldmine of Therapeutics for Metabolic Diseases*" at the BASF, Research Triangle, NC, USA on June 19, 2019. Title of talk: *Gut Microbiome: A Goldmine of Therapeutics for Metabolic Diseases.*	6/19/2019
Invited speaker for 2019 *SciTech Lecture Series* titled '*Gut microbiome: a goldmine to discover biomarkers and therapies against aging-related metabolic diseases*' at the Forsyth Tech Community College, Winston-Salem, NC, USA on April 11, 2019. Title of talk: *Gut microbiome: a goldmine to discover biomarkers and therapies against aging-related metabolic diseases.*	4/11/2019

Invited speaker Pepper Center Investigator meeting titled '*Role of metformin in aging related leaky-gut*' at the Wake Forest Claude Pepper Center on March 7th, 2019.	3/7/2019
Invited speaker for talk titled 'Gut microbiome: use as biomarkers and therapeutic target against metabolic diseases' at the Department of Clinical Sciences, Joan C. Edwards School of Medicine - Marshall University, Huntington, WV on 14th February, 2019.	2/14/2019
Invited speaker for Round Table talk entitled 'Gut-brain axis controlled by probiotics, prebiotics and diet' at the Biena, Montreal, Canada on October 22, 2018.	10/22/2018
Invited speaker at the Center of Redox Biology and Medicine (CRBM) Research Symposium (Dean Symposia) entitled '*Our bacterial buddies and nitrate bioactivation for cardiovascular health*' in Wake Forest School of Medicine, Winston-Salem, NC on Sept 26, 2018.	09/26/2018
Invited speaker in the Division of Agricultural and Food Chemistry [AGFD] of 256th American Chemical Society National Meeting-2018 to talk on a topic: 'Impact of Western diet versus Mediterranean diet feeding on gut microbiome in non-human primates' in Boston, MA on August 22nd, 2018.	8/22/2018
Presented poster entitled '*New prebiotics to ameliorate high-fat diet-induced obesity and diabetes via modulation of microbiome-gut-brain axis*' in American Diabetes Association, Orlando, FL on June 25, 2018.	6/25/2018
Invited speaker in CTSI sponsored seminar entitled '*Gut-Brain Axis: How Gut Microbiome and its Modulators Take Control*' talk Miami at University of Miami, Miller School of Medicine, Miami, Florida on June 5, 2018.	6/5/2018
Invited speaker for a talk entitled '*Crisscross relationship of Probiotics and Antibiotics on Metabolism*' at the International conference 'Antibiotics Resistance Strains' in International Science and Technology Center, National Laboratory, Astana, Kazakhstan on June 22nd, 2017.	6/22/2017
Invited speaker in the Symposium: Microbiome Research at NIH/FDA for a talk on '*Probiotics and obesity*' on 13th March, 2017.	3/13/2017
Invited speaker in the American Diabetes Association, San Francisco, CA on the topic titled '*Metabolic Actions of Probiotics*' on June 17, 2014.	6/17/2014
Invited speaker and chairperson for an oral presentation session in "*Nutrigenomics: A Promising Tool for Combating Chronic Diseases*" at Sardar Patel University, Vallabh Vidhyanagaron, Gujarat, India on February 4th, 2014.	2/4/2014
Invited speaker and chairperson in '*National Conference on Bioactive Compounds and Functional Foods in Health and Disease Management*' at National Institute of Food Technology Entrepreneurship and Management, Sonepat, Haryana, India, on November 15-16, 2013.	11/15/2013

Invited speaker on the topic titled '*Nutrient-Gene Interactions: Health impact*' at Punjab Technical University (Department of Biotechnology), Jalandhar-Kapurthala, Punjab, India, on April 27, 2013. 4/27/2013

Invited speaker for a talk titled '*Blockade of TGF-beta/Smad3 signaling protects from obesity and diabetes*' at Department of System Biology, Children's National Medical Center, Georgetown University, Washington DC, USA on October 4, 2011. 10/4/2011

Invited speaker for a talk titled '*Probiotics and Diabetes/ Obesity: a possible biotherapeutical link*' at Microbiome Working Group talk at National Cancer Institute – Fredrick, MD, USA on May 26, 2011. 5/26/2011

Invited speaker for a talk titled '*Probiotics and Obesity/ Diabetes: Is There Any Link?*' at the Seth Jai Prakash Mukand Lal Institute of Engineering & Technology (JMIT), Radaur (Haryana), India, on March 23, 2011. 3/23/2011

Invited speaker for a talk titled '*Link of Transforming Growth Factor-beta Signaling in Obesity/Diabetes Pathogenesis*' presented at School of Studies in Biotechnology at Jiwaji University, Gwalior (Madhya Pradesh), India, on March 15, 2011. 3/15/2011

Invited speaker for talk titled '*Tiny Microbes and Human Health: Special Focus on Obesity and Diabetes*' at the 3rd National Conference of Recent Advances in Chemical and Environmental Sciences, at the Multani Mal Modi College, Patiala (Punjab), India, on February 28, 2011 2/28/2011

CLINICAL ACTIVITIES OR INNOVATIONS

I have been involved in 10 clinical studies, as principal investigator (PI) and/or co-investigator. As PI I have led 1 clinical trial at Wake Forest and leading 2 clinical studies at USF. As Co-I, I am participating as co-investigator in 7 collaborative clinical studies/ trials.

University of South Florida, Tampa, FL, USA

STUDY002365. Shalini Jain (PI) 09/2021-
Microbiome in Aging Gut and Brain (MiaGB) Study
This study aims to develop a cohort study for evaluating the role of microbiome in aging of gut and brain in older adults in Tampa Bay area.
Your role: Co-Investigator

STUDY002800. Adam Carmer (PI) 11/2021-
Food Insecurity and Microbiome Diversity
This study is designed to determine if food insecurity is linked with reduced microbiome diversity and increased leaky gut and inflammation
Your Role: Co-Investigator

Met-PEF study Dalane Kitzman (PI)
Metformin treatment in older adults with Heart Failure with Preserved Ejection Fraction (HFpEF) 11/2021-

This is a clinical trial funded and getting start at Wake Forest School of Medicine to determine the effect of metformin on gut microbiome, leaky gut and inflammation in patients with HFpEF.
Your role: Co-investigator

6/21/2021-

STUDY002364 Hariom Yadav (PI)
Role of microbiome modulators in immunomodulations
The objectives of this study are to determine the immunomodulatory potential of microbiome modulators like postbiotics in human PBMCs.

6/21/2021-

STUDY002821 Hariom Yadav (PI)
COVID-19 Nasal Sample Biorepository
This study aims to develop human nasal swab biorepository at USF.

Wake Forest School of Medicine, Winston-Salem, NC, USA

IRB00057502 HariomYadav (PI) 8/7/2019-
Gut microbiome and metformin study 3/20/2021
Our goal of this study is to identify patients as tolerants/responders and non-tolerants/non-responders based on whether they will continue metformin more than 1-3 weeks or not. We will analyze responsiveness in responders in terms of reducing blood glucose levels. Then we will establish gut microbiome signature and determine the predictive power of gut microbial species to define metformin tolerance/responsiveness versus non-tolerance/non-responsiveness.
Your role: Principal investigator

IRB00064983 Sanders, John (PI) 5/6/2020-
Samples for Validation of Testing for SARS-CoV-2
The primary goal of the current study is to obtain COVID serological testing validation data to support the large prospective study in which measuring the extent and time course of local community spread of COVID-19 is the goal. A secondary goal is to acquire RNA from ongoing infections for continued validation of testing. The third goal is to correlate virus exposure with nasal microbiome in an effort to discover potential biomarkers and therapeutic strategies (e.g. probiotics) for Covid-19 infection.
Your role: Co-I

IRB00045734 Akiko Chiba (PI) 8/4/2017-
Breast Microbiome study
The aim of this study is to determine if the microbiome varies amongst women who responded well to neoadjuvant treatment.
Your role: Co-Investigator

BG99-197 Donald Bowden (PI) 9/14/2017-
DHS - Diabetes Heart Study
Specific Aims of this study are: 1. Molecular genetic and analytical approaches will be used to prioritize previously identified loci for positional cloning. 2. CVD susceptibility loci will be located by performing high density SNP mapping and association analysis in inked regions in 1220 European

American subjects from first phase of the study. 3. Trait determining genes will be identified by intensive molecular genetic analysis including additional SNP genotyping and resequencing.
Your role: Co-Investigator

IRB00036970 Jingzhong Ding (PI) 3/24/2016-
VEGGIE Study
The overarching goal of this study is to advance our understanding of the regulation of the cholesterol metabolism transcriptional network and its contribution to susceptibility to T2DM, by determining weight loss-induced transcriptional changes and epigenetic regulators (DNA methylation) of this network that are related to glucose metabolism.
Your role: Co-Investigator

National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK), NIH, Bethesda, MD, USA

20-DK-0018 Stephanie Chung (PI)
Prebiotics and Metformin Improve Gut and Hormones in Type 2 Diabetes in Youth (MIGHTY-fiber) 12/23/2019-
The objectives of this study are to determine if a prebiotic fiber supplement helps improve the gastrointestinal side effects of people taking metformin and helps with their blood sugars.
Your role: Co-investigator

SCHOLARLY ACTIVITY
At USF, I have ~6 million extramural funding to support my research program. I have a more than 12 years of track record for successfully securing funding from public and private funding agencies to support my research and educational activities.

A) <u>Current Grants</u>

Agency: <u>NIA/NIH- U01</u>
Title: **Metformin for older patients with HFpEF: MET-PEF**
P.I.: Dalane Kitzman, MD
Your role: Multi- PI (Co-PI)
Percent effort: 10-15%
Direct costs per year: $148,255
Total costs for project period: $2,284,518
Project period: 04/01/2022-03/31/2025

Agency: <u>Florida Department of Health</u>
Title: **Role of microbiome in aging of gut and brain in Floridian Older Adults**
P.I.: Hariom Yadav
Percent effort: 10%
Total costs for project period: $743,661
Project period: 04/01/2022-03/31/2026

Agency: NIH/NIA
I.D.# **1R01 AG071762-01**
Title: *"Microbial therapy improves gut permeability to reduce cognitive decline and Alzheimer's disease"*
P.I.: Hariom Yadav, PhD
Percent effort: 35%
Direct costs per year: $250,000
Total costs for project period: $2,043,750
Project period: 8/1/2021 – 7/31/2026

Agency: NIH/NIA
I.D.# **1R21 AG072379-01**
Title: *"The role of gut microbiota in the efficacy of ketogenic diet to ameliorate Alzheimer's disease "*
P.I.: Hariom Yadav, PhD
Percent effort: 15%
Direct costs per year: $150,000
Total costs for project period: $473,000
Project period: 8/1/2021 – 7/31/2023

Agency: NIH/NIA
I.D.# **1R56 AG069676-01**
Title: *"Metformin and Alzheimer's disease: Physiological mechanisms that ameliorates its pathology "*
P.I.: Hariom Yadav, PhD
Percent effort: 32%
Direct costs per year: $250,000
Total costs for project period: $250,000
Project period: 9/15/2020 – 8/31/2021

Agency: NIH/NIA
I.D.# **1R56AG064075-01A1**
Title: *"Gut microbiome-based biomarkers of Alzheimer's disease and its modulation by a ketogenic diet"*
P.I.: Hariom Yadav, PhD
Percent effort: 28%
Direct costs per year: $392,000
Total costs for project period: $1,251, 000
Project period: 9/15/2020 – 4/30/2022

Agency: DOD/ CDMRP
ID#: **W81XWH-18-PRARP-NIRA**
Title: *"Probiotic therapy to ameliorate Alzheimer's disease"*
P.I.: Hariom Yadav, PhD
Role on Project: PI
Percent effort: 15%
Direct costs per year: $112,500
Total costs for project period: $348,725
Project period: 8/1/2019 – 9/30/2023

Entrepreneurship Grants

Agency: North Carolina Biotechnology Center, NC Idea Grant
ID#: **NC Idea Grant**
Title: Postbiotics Inc
P.I.: Hariom Yadav, PhD
Role on Project: Co-founder and Research Scientific Officer
Percent effort: Not covered
Direct costs per year: $10,000
Total costs for project period: $10,000
Project period: 7/1/2019 – 6/30/2020

Agency: National Science Foundation
ID#: **Award # 2015583 (NCE)**
Title: I-Corps: Development of a gut bacterial strain to stimulate mucus-secreting cells of the colon to treat
P.I.: Hariom Yadav, PhD
Role on Project: Scientific Lead
Percent effort: 10% for 6 months
Direct costs per year: $50,000
Total costs for project period: $50,000
Project period: 12/18/2020 – 10/29/2021

B) Pending

Agency: NIH/NIA
Title: **NIH U19- TAME-Biorespository**
P.I.: Mark Espeland, PhD
Role on Project: Co-I
Percent effort: 10%
Direct costs per year: $3,000,000
Total costs for project period: $15,000,000
Project period: 8/1/2021 – 7/31/2026

Received impact score of 10- funding decision awaiting

Agency: NIH/NIDCR
Grant type: NIH R21
Title: *Identification of bacterial strains for development of an oral probiotics aimed at increasing nitric oxide bioavailability.*
P.I.: Hariom Yadav
Percent effort: 10%
Total costs for project period: $418,368
Project period: 7/1/2022 – 6/30/2024

Agency: NIH/ORIP
Grant type: NIH R21
Title: *Generation of two conditional mouse lines of miR101a silencing and overexpression to determine its role in the*

leaky syndrome.
P.I.: Hariom Yadav
Percent effort: 10%
Total costs for project period: $418,368
Project period: 12/2022 – 11/2024

Agency: NIH/NIA
Grant type: NIH R01
Title: *Gut mediated glucose homeostasis: Implications for aging.*
P.I.: Christy Carter, PhD
Your role: Site-PI (Co-investigator)
Percent effort: 5%
Total costs for project period: $1,142,931
Project period: 12/2022 – 11/2027

Agency: NIH/NINDS
Grant type: NIH R01
Title: *Role of blood brain permeability in age-related cognitive decline and Alzheimer's disease progression.*
P.I.: Shalini Jain, PhD
Your role: Co-investigator
Percent effort: 10%
Total costs for project period: $1,142,931
Project period: 12/2022 – 11/2027

C) Past Grants

Agency: NIH/NIA
I.D.# R01AG068330
Title: *The metabolic interplay of sleep and Alzheimer's disease*
P.I.: Shannon Macauley, PhD
Percent effort: 8%
Your role: Co-Investigator
Total costs for project period: $2,450,000
Project period: 08/01/2020-04/30/25

Agency: DOD/CDMRP
I.D.# **Breakthrough Level 2; BC190271**
Title: *Modulating the Breast Microbiome to Prevent ER+ Breast Cancer*
P.I.: Katherine Cook, PhD
Your role: Co-investigator
Percent effort: 5%
Total costs for project period: $1,245,000
Project period: 01/01/2020-12/31/2023

Agency: NIH/NIA
I.D.# R01AG068330
Title: *Administrative supplement: Exercise intolerance in older*

HFPEF patients
P.I.: Dalane Kitzman, MD
Your role: Co-investigator
Percent effort: 7.5%
Total costs for project period: $210,000
Project period: 09/01/2018-03/31/2021

Agency: NIA Funded Wake Forest Pepper Center
I.D.# **Not assigned**
Title: *Association of diet and exercise on gut microbiome with physical function and inflammation in HFpEF pathology Cancer*
P.I.: Hariom Yadav, PhD
Percent effort: Not covered
Total costs for project period: $15,000
Project period: 06/2018-09/2020

Agency: A2 Milk Company
I.D.# **GTS 46239 A2**
Title: *Impact of A1 and A2 -caseins on early development of type 1 diabetes (T1D)*
P.I.: Hariom Yadav, PhD
Percent effort: 10%
Total costs for project period: $110,000
Project period: 1/2018-09/2020

Agency: DOD CDMRP
I.D.# **W81XWH-18-1-0118 Discovery Award**
Title: *Development of microbiome-based biomarkers and biotherapy for metformin efficacy*
P.I.: Hariom Yadav, PhD
Percent effort: 15%
Total costs for project period: $200,000
Project period: 5/2018-11/2019

Agency: CRBM, Wake Forest School of Medicine (WFSM)
I.D.# **CRBM Pilot Grant**
Title: *Development of nitrate-reducing and nitric oxide producing probiotics*
P.I.: Hariom Yadav, PhD
Percent effort: None
Total costs for project period: $20,000
Project period: 4/2018-3/2019

Agency: Cardiovascular Science Center (CVSC), WFSM
I.D.# **CVSC Pilot award**
Title: *Role of butyrate-producing probiotics on cardiac insulin resistance via modulation of gut microbiome-GLP1 axis*
P.I.: Hariom Yadav, PhD
Percent effort: None

Total costs for project period: $20,000
Project period: 6/2017-5/2018

Agency: Cardiovascular Science Center (CVSC), WFSM
I.D.# **CVSC Pilot award**
Title: *Role of gut microbiome in high versus low risk of cardiovascular risk in DHS cohort*
P.I.: Hariom Yadav, PhD
Percent effort: None
Total costs for project period: $20,000
Project period: 6/2017-5/2018

Agency: Center for Research Substanceabuse and Addiction (CRUSA) WFSM
I.D.# **CRSUA Pilot award**
Title: *Role of gut microbiome modulators on food-addiction of obesity in mice*
P.I.: Hariom Yadav, PhD
Percent effort: None
Total costs for project period: $20,000
Project period: 05/2017-04/2018

Agency: Center for Diabetes, Obesity and Metabolism, WFSM
I.D.# **CDOM Pilot award**
Title: *Development of novel alginate microencapsulated probiotics against obesity and diabetes*
P.I.: Hariom Yadav, PhD
Percent effort: None
Total costs for project period: $20,000
Project period: 3/2017-2/2018

Agency: National Agricultural Science Fund (NASF) of Indian Council of Agricultural Research (ICAR), INDIA
I.D.# **NASF/ABA-5012/2014**
Title: *Role of A1 versus A2 milk consumption on metabolic health (a multi-center study)*
P.I.: Monika Sodhi, PhD
Your Role: Site, PI and Co-investigator
Percent effort: NA
Total costs for project period: Equivalent to $800,000 (funded in Indian currency)
Project period: 07/2013 – 06/2018

Agency: Department of Biotechnology (Govt. of India), INDIA
I.D.# **BT/PR10584/PFN/20/965/2014**
Title: *Basic & clinical understanding of iron/zinc malnutrition and novel approaches for food fortification (a multi-institutional educational program)*
P.I.: Mahendra Bisnoi, PhD

Your Role: Co-investigator
Percent effort: NA
Total costs for project period: Equivalent to $1,600,000 (funded in Indian currency)
Project period: 07/2013 - 07/2020

Agency: Department of Biotechnology (Govt. of India), INDIA
I.D.# **BT/HRD/35/02/2012**
Title: *Probiotic mediated gut-flora modulation can protect obesity and type 2 diabetes*
P.I.: Hariom Yadav, PhD
Percent effort: 100%
Total costs for project period: Equivalent to $250,000 (funded in Indian currency)
Project period: 12/2012 – 04/2014

Agency: Department of Science & Technology (Govt. of India)
I.D.# **SERC/LS-148/2012**
Title: *Development of novel compounds for treatment of obesity and diabetes*
P.I.: Hariom Yadav, PhD
Percent effort: NA
Total costs for project period: Equivalent to $250,000 (funded in Indian currency)
Project period: 12/2012 - 04/2014

Agency: NIDDK/NIH Nancy Nossal Fellowship.
I.D.# Not assigned
Title: *Role of TGF- β1 signaling in insulin resistance and adipogenesis*
P.I.: Hariom Yadav, PhD (Trainee)
Percent effort: 5%
Total costs for project period: $50,000
Project period: 05/2008 – 04/2012

PUBLISHED BIBLIOGRAPHY

I have published more than 130 manuscripts in high impact peer-reviewed journals. My publications have been cited more than 8704; and achieved h-index of 45 and i10-index of 103 showing at Google Scholar (as of Feb. 23, 2022). Please visit the Google scholar link for recent updates: https://scholar.google.com/citations?user=KbUvrmkAAAAJ

Corresponding/lead author

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[5]. Menon S, Marotta F, Jain S, Yadav M, and **Yadav H***. (2010). "Anti-oxidant potential of Vitamin E" in 'Vitamin E: Nutrition, Side Effects and Supplements' to be published with Nova Science Publishers, Inc., NY, USA. pp. 195-209.

[6]. **Yadav H***, Jain S and Yadav M. (2012). 'Probiotics and Diabetes/Obesity: Health Implications' in 'Bioactive Food as Dietary Interventions for Diabetes' Edited by Ronald Ross Watson and to be published with Elsevier Inc. Amsterdam, Netherland. pp 307-317.

[7]. Yadav, K., Singhal, N., Rishi, V. and **Yadav, H*.** (2014). Cell Proliferation Assays. In: eLS. John Wiley & Sons Ltd, Chichester. http://www.els.net doi: 10.1002/9780470015902.a0002566]

[8]. Malik A, Harnish, Chopra P, Angmo S, Dahiya DK, Jain S and **Yadav H***. (2015). Nutritional and therapeutic characteristics of fermented dairy products. CRC Press. Chapter 2-; Page 22-25. doi: https://doi.org/10.1201/b18987.

[9]. So I., **Yadav H***. (2020) Obesity and Its Complications Pathogenesis. In: Tappia P., Ramjiawan B., Dhalla N. (eds) Pathophysiology of Obesity-Induced Health Complications. Advances in Biochemistry in Health and Disease, vol 19. Springer, Cham. DOIhttps://doi.org/10.1007/978-3-030-35358-2_3.

Papers in Press (list from earliest to most recent)

135. **Yadav H**, Bahn YJ, Gavrilova O, Daniel S, Allen M, Abel B, Papazoglou I, Chen W, Zerfas P, Gharib AM, Ouwerkerk R, Skarulis M, McPherron AC, Rane SG. Cdk4-E2F3 signals enhance skeletal muscle oxidative function to improve whole-body metabolism. *EMBO Reports*; (Under-Revision).
136. Mishra SP, Wang B, Jain S, Ding J, Rejeski JJ, Furdui CM, Kitzman D, Taraphder S, Brechot C, **Yadav H***. Microbiota underutilizing ethanolamine instigates leaky gut by inducing ARID3a/ miR101a-3p and reducing tight junctions in obese/diabetic gut. *Gut (Under-revision).*
137. Mishra SP, Wang B, Wang S, Miller B, Jain S, Lee JY, Borlongan C, Taraphdar S, Layden B, Rane SG, **Yadav H***. Microbiota induces aging-related leaky gut, inflammation, and brain health decline by dampening mucin barriers and butyrate-FFAR2/3 signaling. *Aging Cell (Under-Revision).*

OTHER RESEARCH AND CREATIVE ACHIEVEMENTS

Two patents have been filed from the Wake Forest School of Medicine and I have also submitted 3 invention disclosure with USF.

Wake Forest School of Medicine, Winston-Salem, NC, USA

1. **Yadav, Hariom**. "Compositions Useful for Dietary Supplements." U.S. Patent Application 17/072,630; full application filed April 22, 2021. — 2021
2. **Yadav, Hariom**, Shaohua Wang, and Ravinder Nagpal. "Bacterial strain useful for treatment of age-related conditions." U.S. Patent Application 16/947,866; full application filed February 25, 2021. — 2021

University of South Florida Tampa, FL, USA

1. **Yadav, Hariom,** Shalini Jain, Shaohua Wang." Metformin-Choline for mitigation of Clostridium difficile infection" submitted as invention disclosure to USF office. — 5/2021
2. **Yadav, Hariom,** Shalini Jain, Atul Chander. "Design and Use of Microbiome Collection Kit." submitted as invention disclosure to USF office. — 5/2021
3. **Yadav, Hariom,** Shalini Jain, Atul Chander. " Postbiotics to improve vaccine efficacy and immune functions" submitted as invention disclosure to USF office. — 5/2021

SERVICES

I have led 7 international scientific sessions as a chair/ specialist and served/served grant reviewers of more than 10 funding agencies including NIH. I am serving/ served Editorial Board member in around 8 peer-reviewed journals and serving as a reviewer for more than 20 international peer-reviewed journals. I have also served as a member of several committees for institutional services at Wake Forest and also serving at USF, for the benefit of institutional mandate.

Institutional Services:

Services for the University of South Florida

Member of Bylaws Revisions Committee	12/2021-present
Member of USF Initiative/Institute of Microbiomes	4/2021-present
Member of USF Urban Farm Group	4/2021-present
Organizer of 'Microbiome Initiative Workshop 2: Operating Infrastructure, Funding Opportunities, and Team Building for Microbiome Research at USF, scheduled to be on September 8, 2021	5/2021-present

Services for the Wake Forest School of Medicine

Reviewer of North Carolina Diabetes Research Center Pilot Award applications	2/2021
Reviewer of Medical Student Research Program summer project applications	1/2021
Reviewer of Wake Forest OAIC Pepper Center Pilot Award applications	11/2020
Basic science representative for Undergraduate Medical Education Curriculum Committee (UMECC) at WFSM	9/2020
Member of Microbiology and Immunology faculty recruitment committee	4/2019- 1/2021
Member of Institutional Biosafety Committee (IBC) at WFSM	1/2019- 3/2021
Member of Chemical Safety Committee (CSC) at WFSM	1/2019- 3/2021
Selection committee member of faculty recruitments in the Department of Microbiology and Immunology at WFSM	7/2018- 3/2021
A member of Professional Wellbeing & Resilience Program (PWR) program for discussion in 'Fear of Retribution Focus Group'	7/2018- 3/2021
A member of Professional Wellbeing & Resilience Program (PWR) program for discussion in 'Burnout and Wellness focus group'	7/2018
Integrated Physiology and Pharmacology graduate program student recruitment and interviews	7/2017- 3/2021

International Recognitions/Leadership

	4/28-5/1/2022

Organizer of a symposia *"Gut-brain axis" in the 29th Annual Conference of the American Society of Neural Therapy and Brain Repair, Clearwater, FL, USA*	
Invited to *Chair a Symposium* on 'Human Nutrition and Microbiome' in Experimental Biology 2020 meeting in San Diego, CA in April, 2020. (EB 2020 was cancel due to Covid-19)	4/2020
Selected for as Mentor in Speed Mentoring Event during Nutrition 2019 (organized by American Society of Nutrition) in Baltimore, MD	6/9/2019
Invited *Scientific Advisory Board* member for '*Human Nutrition Microbiome Movement*' conference in Boston, MA in November, 12-13, 2018	11/12/2018
Specialist to lead a '*Panel on: Colonization, diversity and next generation probiotics'* at Probiota Americas in Miami, Florida	6/7/2018
Chairperson and moderator in 'Antibiotics Resistance Strains' in International Science and Technology Center, National Laboratory, Astana, Kazakhstan	6/5/2017
Chairperson for an oral presentation session in "*Nutrigenomics: A Promising Tool for Combating Chronic Diseases*" at Sardar Patel University, Vallabh Vidhyanagaron, Gujarat, India	2/3/2014
Chairperson in '*National Conference on Bioactive Compounds and Functional Foods in Health and Disease Management'* at National Institute of Food Technology Entrepreneurship and Management, Sonepat, Haryana, India	11/15/2013

Grant Reviewer

Ad-hoc Reviewer- NIH DNPD- Digestive and Nutrition Physiology and Diseases study section	6/28-29/2021
*Reviewe*r- Weston Family Foundation, Canada	7/2020-present
Ad-hoc Reviewer- NIH DKUS- Digestive Sciences Small Business Activities Special Emphasis Panel	3/2021
Reviewer- NIH ZRG1 DKUS-A (90) special emphasis study section on 'Topics in Gastroenterology'	10/2020
Ad-hoc Reviewer- NIH CSR- Integrated Physiology of Obesity and Diabetes (IPOD) study section	6/2020
Ad-hoc Reviewer- The Netherlands Organization for Scientific Research (NWO)	7/2019

Ad-hoc Reviewer- NIDDK funded Mouse Metabolic Phenotyping Centers (MMPC) program (Gut microbiome expert)	2/2018
Ad-hoc Reviewer- Czech Science Foundation	1/2018
Ad-hoc Wake Forest School of Medicine Intramural Pilot Grants	1/2018
University of Sharjah, UAE	7/2017
Indian Council of Medical Research (ICMR), India	1/2013- 3/2014
Department of Biotechnology (DBT), India	2/2013- 3/2014
The Health Research Board (HRB), Ireland	7/2014
Austrian Science Funds, Vienna, Austria	6/2013

Editorial Boards (Member)

Nature- Scientific Reports	2019-Present
AJP-Physiological Genomics	2018-Present
Frontiers in Microbiology	2018-Present
Current Topics in Nutraceutical Research	2018-Present
International Journal of Probiotics and Prebiotics	2017-Present
Frontiers in Nutrition	2017-Present
Frontiers in Neuroscience	2017-Present
Oxidative Medicine and Cellular Longevity (Guest Editor)	2014-2017

Journal Reviewer

Brain Research	
Science Translational Medicine	2021-
Microbiome	2020-
Cell Reports- Medicine	2020-
Star Protocols	2020-
Journal of American Geriatric Society	2020-
Geroscience	2020-
Journal of Geronotology- Biological Sciences A	2019-
FASEB Journal	2019-
Lancet-eBioMedicine	2018-
AJP-Physiological Genomics	2018-
The Journal of Visualized Experiments	2018-
Nature-Scientific Reports	2018-
Frontiers in Microbiology	2018-
Journal of Nutrition and Metabolism	2017-
PLOS One	2017-
Molecular Nutrition and Food Research	2017-
British Journal of Nutrition	2015-
Food Research International	2014-
Nutrients	2010-

Journal of Agricultural and Food Chemistry	2010-
Polish Journal of Microbiology	2009-
	2008-

OTHER SEVICES

Organizer of 2019 Temple Run	9/2018
Organizer of 2018 Temple Run	9/2018
Organizing committee member of Hindu Temple Establishment	2018-2020
Parent-Teacher meet and teaching assistant volunteer in local school	2019
Judge in Middle School Science Fair	4/2009
Judge in Elementary School Science Fair	4/2008

PUBLIC OUTREACH

Our research has been highlighted in multiple media portals to apply in general public and healthcare awareness and improvements, as well as improved the high recognition of research programs at the institute level.

2022

Jan., 2022

Physicians, anthropologists and marine biologists start at the soil in launch of program to address nature's impact on human health

https://green-reporter.com/physicians-anthropologists-and-marine-biologists-start-at-the-soil-in-launch-of-program-to-address-natures-impact-on-human-health/

Jan., 2022

USF Health researcher studies gut microbiome to improve brain health, decrease age-related diseases

https://hscweb3.hsc.usf.edu/blog/2021/09/03/usf-health-researcher-studies-gut-microbiome-to-improve-brain-health-decrease-age-related-diseases/

Jan., 2022

USF Health studies how diet affects gut, oral microbiomes linked to brain health in older adults

https://www.mlo-online.com/disease/article/21253272/usf-health-studies-how-diet-affects-gut-oral-microbiomes-linked-to-brain-health-in-older-adults

Oct., 2021

Natural compound in basil may protect against Alzheimer's disease pathology

1. https://hscweb3.hsc.usf.edu/blog/2021/10/05/natural-compound-in-basil-may-protect-against-alzheimers-disease-pathology/
2. https://www.sciencedaily.com/releases/2021/10/211005101827.htm#:~:text=Fenchol%2C%20a%20natural%20compound%20abundant,neurotoxicity%20in%20the%20Alzheimer's%20brain.
3. https://www.yahoo.com/lifestyle/popular-herb-could-help-prevent-100518808.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xlLmNvbS8&guce_referrer_sig=AQAAAHiE9i4ZSSflNU4-_s0itJycdXKTqflk5bqLT-hY8nKS0dzJw-

Unkd5KSqGx5NJbObGdQUkX4OfG3oZ3_AeMcSr5eoN8uesWk_x7FGZJRZpUkPCa4utTPvFJVOy1mJevZo8w8Nq8eZYgnXXB-4IoUycx-caS_jM4z86_3rj4OzDZ

4. https://nypost.com/2021/10/07/popular-herb-could-help-prevent-alzheimers-study-finds/
5. https://www.sciencetimes.com/articles/33806/20211006/alzheimers-disease-prevented-preclinical-study-claims-natural-compound-basil-answer.htm
6. https://news.in-24.com/health/201011.html
7. https://remonews.com/uk/alzheimers-basil-leaves-can-slow-symptoms/
8. https://awsforwp.com/2021/10/07/natural-compound-in-basil-may-protect-against-alzheimers-disease/
9. https://newsfounded.com/bangladesh/natural-basil-compound-can-protect-against-alzheimers-disease/
10. https://711web.com/the-natural-compound-in-basil-may-protect-against-alzheimers-disease/
11. https://lifeboat.com/blog/2021/10/natural-compound-in-basil-may-protect-against-alzheimers-disease
12. https://newsbeezer.com/uk/alzheimers-disease-basil-leaves-can-slow-down-symptoms/
13. https://salesground.org/natural-compound-in-basil-can-protect-against-alzheimers-disease/
14. https://knowridge.com/2021/10/this-stuff-in-basil-may-protect-against-alzheimers-disease/
15. https://newswep.com/index-tech-science-fragrance-protects-against-alzheimers-disease/
16. https://www.express.co.uk/life-style/health/1502045/alzheimers-disease-symptoms-basil-leaves
17. https://thenuherald.com/2021/10/08/basils-natural-anti-chemical-beneficial-alzheimers/
18. https://globalcirculate.com/popular-herb-could-help-prevent-alzheimers/
19. https://www.thescottishsun.co.uk/health/7812952/popular-herb-help-prevent-alzheimers-study/
20. https://fynefettle.com/alzheimers-disease-basil-leaves-may-slow-symptoms/
21. https://thegarynullshow.podbean.com/
22. https://time.news/home-grass-basil-protects-against-alzheimers-articles/
23. https://xnewsnet.com/alzheimers-disease-basil-leaves-can-slow-symptoms/
24. https://usanewslab.com/lifestyle/popular-herb-could-help-prevent-alzheimers-study-finds/
25. https://www.technicalripon.com/health/un-compose-naturel-du-basilic-barriere-contre-alzheimer/
26. https://www.newsylist.com/a-natural-basil-compound-a-barrier-against-alzheimers/
27. https://publicnews.in/health/natural-compound-in-basil-may-protect-against-alzheimers-disease-pathology/
28. https://www.cleanbowled.in/entertainment/brain-boost-popular-herb-could-help-prevent-alzheimers-study-results/
29. https://newsnetdaily.com/popular-herb-may-help-prevent-alzheimers-disease-study-finds/
30. https://www.revyuh.com/news/lifestyle/health-and-fitness/a-natural-compound-found-in-basil-may-help-protect-your-brain-from-dementia/
31. https://buzznewspost.com/news/health/alzheimers-disease-the-aromatic-herb-that-may-halt-cognitive-decline-new-study/
32. https://www.thehealthnewsexpress.com/alzheimer_disease_dementia/natural-compound-in-basil-may-protect-against-alzheimers-disease-pathology/
33. https://games4you.me/index.php/2021/10/07/a-compound-present-in-basil-is-said-to-have-protective-properties-against-alzheimers-disease/
34. https://fry-electronics.com/this-popular-herb-could-help-prevent-alzheimers-new-study-finds/
35. https://www.youtube.com/watch?v=OtMcbahpATg
36. https://nowyoureadme.com/natural-compound-in-basil-may-protect-against-alzheimers-disease/

37. https://whatsnew2day.com/this-popular-herb-may-help-prevent-alzheimers-disease-new-study-shows/
38. https://www.pehalnews.in/this-popular-herb-could-help-prevent-alzheimers-new-study-finds/1118554/
39. https://www.msn.com/en-us/health/medical/this-popular-herb-could-help-prevent-alzheimers-new-study-finds/ar-AAPc2X6?li=BBnba9O
40. https://www.fmradiofree.com/podcasts/the-gary-null-show
41. https://newsconcerns.com/alzheimers-disease-basil-leaves-may-slow-symptoms/
42. https://www.healththoroughfare.com/disease/closer-to-defeating-alzheimers-disease-why-consuming-basil-is-a-good-idea/38315
43. https://www.prohealthlongevity.com/blogs/breaking-news/natural-compound-in-basil-found-to-support-cognitive-function
44. https://uk.newschant.com/health/alzheimers-disease-basil-leaves-may-slow-symptoms/
45. https://thenuherald.com/2021/10/08/basils-natural-anti-chemical-beneficial-alzheimers/
46. https://remonews.com/ethiopia/the-natural-compound-of-basil-can-protect-against-the-pathology-of-alzheimers-disease/
47. https://toysmatrix.com/alzheimers-disease-basil-leaves-may-slow-symptoms/
48. https://californianewstimes.com/natural-compound-in-basil-may-protect-against-alzheimers-disease-pathology/547997/
49. https://www.eatthis.com/news-herb-basil-alzheimers/
50. http://www.sci-news.com/medicine/fenchol-alzheimers-disease-pathology-10138.html
51. https://www.genengnews.com/news/alzheimers-disease-pathology-curbed-using-aromatic-compound-in-basil/
52. https://www.earth.com/news/compound-found-in-basil-plants-may-prevent-alzheimers/
53. https://scitechdaily.com/natural-compound-in-basil-may-protect-against-alzheimers-disease/

September 2021
Meet to the community leader Ms. Krista Maddock, BScN- a Health Educator and Grow Coach from T.G.I.Fresh- www.tgifresh.net, regarding discussing how our research and education can be translated to community.

April 2021 MEDIA HIGHLIGHTS
Synbiotics may offer blood sugar management potential, protect gut integrity: Study
1. https://www.nutraingredients-usa.com/Article/2021/04/09/Synbiotics-may-offer-blood-sugar-management-potential-protect-gut-integrity-Study
2. https://healthnewest.com/nutrition-life/synbiotics-may-offer-blood-sugar-management-potential-protect-gut-integrity-study/

Dec. 2020 MEDIA HIGHLIGHTS
Probiotic cocktail may benefit aging-related leaky gut and inflammation: Study
1. https://www.nutraingredients-usa.com/Article/2020/12/07/Probiotic-cocktail-may-benefit-aging-related-leaky-gut-and-inflammation-Study
2. https://healthnewest.com/nutrition-life/probiotic-cocktail-may-benefit-aging-related-leaky-gut-and-inflammation-study/

Sept. 2020 MEDIA HIGHLIGHTS
Fungi in gut linked to higher Alzheimer's risk can be reduced through ketogenic diet
1. https://www.sciencedaily.com/releases/2020/08/200831131633.htm
2. https://neurosciencenews.com/alzheimers-gut-fungi-keto-diet-16939/

3. https://medicalresearch.com/mental-health-research/alzheimers-dementia/gut-fungus-linked-to-alzheimers-disease/55284/
4. https://www.slashgear.com/keto-diet-targets-gut-fungi-that-may-play-a-big-role-in-dementia-31635727/
5. https://www.mentaldaily.com/article/2020/08/consuming-a-healthy-diet-could-reduce-fungi-in-the-gut-associated-with-alzheimers-risk
6. https://www.ethicaleditor.com/health/fungi-in-gut-linked-to-higher-alzheimers-risk-can-be-reduced-through-ketogenic-diet/
7. https://homehealthchoices.com/fungi-in-intestine-linked-to-larger-alzheimers-danger-will-be-decreased-by-way-of-ketogenic-weight-loss-program/
8. https://news.knowledia.com/AU/en/articles/keto-diet-targets-gut-fungi-that-may-play-a-big-role-in-dementia-9b95226a207cb38168a9c79e9974b52dc2d62d7c
9. https://cookwithkathy.wordpress.com/2020/09/01/fungi-in-gut-linked-to-higher-alzheimers-risk-can-be-reduced-through-ketogenic-diet/
10. https://exbulletin.com/world/health/344585/
11. https://newsroom.wakehealth.edu/News-Releases/2020/08/Fungi-in-Gut-Linked-to-Higher-Alzheimers-Risk-Can-Be-Reduced-Through-Ketogenic-D
12. https://medicalxpress.com/news/2020-08-fungi-gut-linked-higher-alzheimer.html
13. https://www.newsbreak.com/news/2051613530164/mediterranean-ketogenic-diet-can-help-alter-fungi-in-the-gut-linked-to-alzheimers-risk
14. https://homehealthchoices.com/fungi-in-intestine-linked-to-larger-alzheimers-danger-will-be-decreased-by-way-of-ketogenic-weight-loss-program/
15. https://www.medindia.net/news/keto-diet-can-reduce-the-risk-of-alzheimers-disease-197256-1.htm
16. https://www.reddit.com/r/ketoscience/comments/ik4cus/fungi_in_gut_linked_to_higher_alzheimers_risk_can/
17. https://www.brightsurf.com/news/article/083120518511/fungi-in-gut-linked-to-higher-alzheimers-risk-can-be-reduced-through-ketogenic-diet.html

Dec. 2019 MEDIA HIGHLIGHTS
A dead probiotics can reduce harmful age-related leaky gut

1. https://newsroom.wakehealth.edu/News-Releases/2019/12/Dead-Probiotic-Strain-Shown-to-Reduce-Harmful-Aging-related-Inflammation
2. https://www.nutritioninsight.com/news/fighting-leaky-gut-researcher-flags-commercialization-opportunities-for-dead-probiotics.html
3. https://eurekalert.org/pub_releases/2019-12/wfbm-dps120919.php
4. https://skystatement.com/even-dead-this-probiotic-may-be-effective-against-inflammation/
5. https://theindianpractitioner.com/2019/12/11/indian-origin-scientist-discovers-dead-probiotic-that-fixes-leaky-gut/
6. https://www.sciencedaily.com/releases/2019/12/191209161321.htm
7. https://timesofindia.indiatimes.com/nri/us-canada-news/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/articleshow/72460161.cms
8. https://moosegazette.net/indian-origin-scientist-in-us-finds-dead-probiotic-that-can-fix-leaky-gut/161936/
9. https://www.medicalnewstoday.com/articles/327276.php#1
10. https://www.ndtv.com/science/indian-origin-scientist-in-us-finds-dead-probiotic-that-can-fix-leaky-gut-2146714

11. https://www.ndtv.com/science/indian-origin-scientist-in-us-finds-dead-probiotic-that-can-fix-leaky-gut-2146714
12. https://heraldpublicist.com/indian-origin-scientist-in-us-finds-dead-probiotic-that-can-fix-leaky-gut/
13. https://fit.thequint.com/health-news/indian-origin-scientist-finds-dead-probiotic-fix-leaky-gut
14. https://www.socialnews.xyz/2019/12/10/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/
15. http://gerente.com/en-us/new-rss/dead-probiotic-strain-shown-to-reduce-harmful-aging-related-inflammation/
16. https://www.dailytimes.live/rome/indian-origin-scientist-hariom-yadav-finds-dead-probiotic-fix-leaky-gut-06624462
17. https://www.newsdirectory3.com/even-dead-this-probiotic-could-be-effective-against-inflammation/
18. https://m.dailyhunt.in/news/india/english/the+sentinel-epaper-senteng/dead+probiotic+that+can+fix+leaky+gut+found+indian+origin+scientist-newsid-152656664
19. https://www.laboratoryequipment.com/558708-Dead-Probiotic-Strain-Reduces-Aging-related-Inflammation/
20. https://www.zeebiz.com/india/news-indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut-115551
21. https://www.medindia.net/news/indian-origin-scientist-finds-dead-probiotic-that-can-repair-leaky-gut-191961-1.htm
22. https://health.economictimes.indiatimes.com/news/diagnostics/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/72462803
23. http://investrecords.com/2019/12/11/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/
24. https://www.hindustantimes.com/world-news/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/story-msQemwmqnpPnsZm8hhVaFK.html
25. https://bionewscentral.com/dead-probiotic-strain-shown-to-reduce-harmful-aging-related-inflammation/
26. https://www.indiapost.com/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/
27. https://indianewengland.com/2019/12/indian-origin-scientist-finds-dead-probiotic-that-can-fix-leaky-gut/
28. https://indicanews.com/2019/12/12/indian-origin-scientist-identifies-dead-probiotic-to-cure-leaky-gut/
29. https://heraldpublicist.com/indian-origin-scientist-in-us-finds-dead-probiotic-that-can-fix-leaky-gut/
30. https://www.news-medical.net/news/20191209/Dead-probiotic-reduces-age-related-leaky-gut-in-older-mice-study-finds.aspx

Oct. 2019 MEDIA HIGHLIGHTS

Gut Bacteria Is Key Factor in Childhood Obesity

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129. http://kncifm.com/crappy-new-health-trend-literally-baby-poop/

2018 MEDIA HIGHLIGHTS

Mediterranean diet boosts beneficial bacteria

Here's another reason to eat a Mediterranean-type diet: It's good for your gut.

1. https://www.nutraingredients-usa.com/Article/2018/04/26/Mediterranean-diet-pattern-leads-to-healthier-gut-profile-Study
2. https://www.sciencedaily.com/releases/2018/04/180425120149.htm
3. https://www.eurekalert.org/pub_releases/2018-04/wfbm-mdb042518.php
4. http://www.wakehealth.edu/News-Releases/2018/Mediterranean_Diet_Boosts_Beneficial_Bacteria.htm
5. https://economictimes.indiatimes.com/magazines/panache/move-over-probiotic-drinks-mediterranean-diet-is-what-your-gut-needs/articleshow/63925663.cms

2013 MEDIA HIGHLIGHTS

Probiotics may 'counter obesity and diabetes': NIH study

A daily dose of probiotics may prevent weight gain and insulin resistance in mice, says a new study from scientists at the US National Institutes of Health (NIH) with implications for obesity and diabetes.

http://www.nutraingredients-usa.com/Research/Probiotics-may-counter-obesity-and-diabetes-NIH-study

2011 MEDIA HIGHLIGHTS (highlighted on more than 450 websites, and received >150,000 hits in a week)

ABC Public news entitled '**Researchers Fight Fat with Fat**' and '**Brown Fat May Help People Lose Weight, Lower Blood Sugar'** were broadcasted on July 5th 2011 about our findings published in Cell Metabolism.

URLs:

1) http://abcnews.go.com/Health/video/researchers-fight-white-fat-brown-fat-14002213

2)http://abcnews.go.com/Health/white-fat-turned-brown-shed-pounds/story?id=13999861

Public news has been released on NIH News and other websites to announce our findings as '**NIH findings in mice have potential to curb obesity and type 2 diabetes**' on July 5th, 2011. URL: http://www.nih.gov/news/health/jul2011/niddk-05.htm

2006 MEDIA HIGHLIGHTS

Public news entitled "**Yogurt can help delay diabetes**" was published on "Diabetes in Control.com" on July 10, 2007.

We developed the probiotic dahi (yogurt) in our lab, evaluated for anti-diabetic/obese potential, licensed and released this dahi in market-2006 for public use.

A breaking news entitled "**Indian probiotic yoghurt linked to slower diabetes development**" on http://www.nutraingredients.com/news/ng.asp?id=71862-dahi-probiotic-diabetics on November 7, 2006.

Front page news in 'Hindustan Times' entitled '**Home made curd delays onset of diabetes**' of November 10, 2006.

Television and radio news broadcasted about Probiotic dahi and diabetes on 14th November 2006. Organization