

NSU

Florida

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UNIVERSITY

**19th Annual
Quality of Life
Faculty Community-Based
Applied Research Grant**

**22nd Annual
President's Faculty Research
and Development Grant**

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This presentation is in honor of the Winning Researchers, their Project Teams, their Community Partners and their Deans who are committed to advancing knowledge and understanding in the effort to drive discoveries.

QUALITY OF LIFE

The mission of the NSU Quality of Life (QOL) Council is a simple one: take the most serious problems affecting the quality of life in Broward County, bring the best minds of NSU's faculty members, students, and community providers to bear, and the results will be a better quality of life for Broward County. Through the efforts of the university's president and its trustees, as well as community organizations, funds have been targeted to support faculty scholarship in applied research to improve the quality of life in Broward County. These funds are awarded in the following five categories: Autism; Adults, Children, and Families; Criminal Justice; Elderly Services; and Foster Care.

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**To All The Quality of Life
Faculty Community-Based
Applied Research Grant
AWARD WINNERS!**



Quality of Life Legend

Blue = PI

Red = Co-PI

Green = Faculty

Purple = Staff and Students

A Multilevel Approach to Assess the Involvement of Gut Microbiome in Autism and Childhood Stress Regulation

Gesulla Cavanaugh, Ph.D.

Maria Abreu, Ph.D.

Jinbing Bai, Ph.D.

Nurit Sheinberg, Ed.D.

Leanne Boucher, Ph.D.

HPD-ACON

HPD-KPCOM

HPD-ACON

COP

COP

Quality of Life

A Multilevel Approach to Assess the Involvement of Gut Microbiome in Autism and Childhood Stress Regulation

Donrie Purcell, M.P.H.
Matthew Arcona, B.S.
Sruthi Kundur, B.S.

HPD-PPCHCS
COP
HCAS

Quality of Life

A Multilevel Approach to Assess the Involvement of Gut Microbiome in Autism and Childhood Stress Regulation

Community Partner(s):

Canine Assisted Therapy, Inc.

Nicklaus Children's Hospital Dan Marino Center

Quality of Life

A Multilevel Approach to Assess the Involvement of Gut Microbiome in Autism and Childhood Stress Regulation

Collaborative Center(s):

Ron and Kathy Assaf College of Nursing

College of Psychology

Quality of Life

Assessment of Stress and Resilience in Emergency Communication Operators

Vincent B. Van Hasselt, Ph.D.

COP

Angela Beamer, M.A.

COP

Judy Couwels, M.A.

COP

Ryan A. Black, Ph.D.

COP

Quality of Life

Assessment of Stress and Resilience in Emergency Communication Operators

Community Partner(s):

Broward Sheriff's Office Regional Communications Division

Collaborative Center(s):

College of Psychology

Quality of Life

Cultural and Linguistic Diversity: Planning, Response, and Efficiency Program (CLD PREP)

Iryna Kasi, Ph.D.

COP

Ralph (Gene) Cash, Ph.D.

COP

Sarah Valley-Gray, Psy.D.

COP

Natalia Ramirez, B.A.

COP

Maria Barroso, M.S.

COP

Quality of Life

Cultural and Linguistic Diversity: Planning, Response, and Efficiency Program (CLD PREP)

Community Partner(s):

The School District of Palm Beach County

Collaborative Center(s):

College of Psychology

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Terry Morrow Nelson, Ph.D.

Barbara G. Lavin, Ph.D.

Stephanie Petrosky, M.H.A.

Elizabeth Swann, Ph.D.

Harvey Feldman, M.D.

Patricia Vargas, D.H.Sc.

Jason Zeim, D.M.D.

HPD-PPCHCS

COP

HPD-KPCOM

HPD-PPCHCS

HPD-PPCHCS

HPD-PPCHCS

HPD-CDM

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Ioana Scripa, Ph.D.

Andrea Levin, Pharm.D.

Debra Stern, PT

Mariem Abdou, O.D.

Jacqueline Hinckley, Ph.D.

Amanda Chase, Ph.D.

Kim Valenti, M.Ed.

HPD-KPCOM

HPD-PHR

HPD-PPCHCS

HPD-OPT

HPD-PPCHCS

NSU MD

HPD-KPCOM

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Sharla Jefferson, M.S.
Lucas Hollar, Ph.D.
Guimarsha Louis, B.S.
Sarah Williams, B.A.

HPD-PPCHCS
HPD-KPCOM
HPD-PPCHCS
HPD-PPCHCS

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Community Partner(s):

Broward County Sheriff's Office

Boys and Girls Club of Broward County/Fort Lauderdale

YMCA of Broward County

Hispanic Unity of Florida

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Community Partner(s):

Nova Eisenhower Elementary School

*Rebels Drop-In Center at Memorial Regional Outpatient Center for
Behavioral Health*

South Broward Community Health Services

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Community Partner(s):

Jack & Jill Children's Center

*Independent Colleges and Universities
Benefits Administration Association, Inc.*

Alvin Sherman Library, Research, and Information Technology Center

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Collaborative Center(s):

Dr. Pallavi Patel College of Health Care Sciences

Dr. Kiran C. Patel College of Osteopathic Medicine

College of Psychology

College of Pharmacy

Quality of Life

Increasing Access to Healthcare: An Innovative IDEA.

Collaborative Center(s):

College of Optometry

Dr. Kiran C. Patel College of Allopathic Medicine

College of Dental Medicine

**FY 2022 Quality of Life
Outstanding Community
Partner of the Year**

Canine Assisted Therapy, Inc.

*Thank
you*

Thank You to our Reviewers for their hard work and participation in the FY2022 Quality of Life Faculty Community Based Applied Research Grant Awards

Kenneth Johnson, D.O.

Guy Nehrenz, Ed.D.

Nurit Sheinberg, Ed.D.

Dana Mills, Ph.D.

James Pann, Ph.D.

Angela Yehl, Psy.D.



**To All The President's Faculty
Research and Development Grant
Track 1
AWARD WINNERS!**

PRESIDENT'S FACULTY RESEARCH AND DEVELOPMENT GRANT

The President's Faculty Research and Development Grant (PFRDG) Program, established in 1999, was designed to bring recognition and funding to the university's faculty members as they attempt to secure resources in support of research activities. This innovative internal granting initiative is designed to provide seed funds for potential research projects. The ultimate goals are to publish the results for the common good, enrich students' education experiences, and leverage preliminary results to pursue and acquire additional funding from external sponsors.

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Track 1:

The Research Development Track

President's Faculty Research and Development Grants Legend

Blue = PI

Red = Co-PI

Green = Faculty

Purple = Staff and Students

President's Faculty Research and Development Grants

**A novel bioreactor chamber for studying
vascular erosion caused by atherosclerosis**

Manuel Salinas, Ph.D.

CCE

Robert C. Speth, Ph.D.

HPD-PHR

Venkatesh M. Shanbhag, Ph.D.

HCAS

Paula Veras

CCE

Evan Weber

CCE

Rebecca Cox

CCE

Jonathon Yanello

CCE

President's Faculty Research and Development Grants

**A novel bioreactor chamber for studying
vascular erosion caused by atherosclerosis**

*College of Computing and Engineering
Dean Meline Kevorkian, Ed.D.*

President's Faculty Research and Development Grants

A novel vaccine strategy to elicit protective antibody responses against HIV-1

Mark Cayabyab, Ph.D.

Vladimir Beljanski, Ph.D.

Alexander Bontempo, Ph.D.

Sourav Boparai, B.S.

Saher Arora, B.S.

HPD-CDM

NSU MD

HPD-CDM

HCAS

HCAS

President's Faculty Research and Development Grants

**A novel vaccine strategy to elicit protective
antibody responses against HIV-1**

College of Dental Medicine

Steven I. Kaltman, D.M.D., M.D., FACS

Dr. Kiran C. Patel College of Allopathic Medicine

Dean Johannes W. Vieweg, M.D., FACS

President's Faculty Research and Development Grants

Aging and Listening Effort

Katharine Fitzharris, Ph.D.

Karah Gottschalk, Ph.D.

Rachel Murphy, B.A.

Sophie Norgaard, B.A.

HPD-PPCHCS

HPD-PPCHCS

HPD-PPCHCS

HPD-PPCHCS

Dr. Pallavi Patel College of Health Care Sciences

Interim Dean, Guy Nehrenz, Ed.D.

President's Faculty Research and Development Grants

Analysis of MDM2 regulation on AURKB in small cell lung cancer

Thiagarajan Venkatesan, Ph.D.

RGI

Appu Rathinavelu, Ph.D.

RGI

Umamaheswari Natarajan, Ph.D.

RGI

Ahmed Alsarrani, M.S.

HPD-PHR

David Babos

HCAS

Jay-Quan Dill

HCAS

*Rumbaugh-Goodwin Institute for Cancer Research
Executive Director, Appu Rathinavelu, Ph.D.*

President's Faculty Research and Development Grants

Assessing Secondary Plastics Contamination Pathways in Coastal Seabirds

David Kerstetter, Ph.D.

HCAS

Christopher Blonar, Ph.D.

HCAS

Dorothy Ellen Renegar, Ph.D.

HCAS

Vanessa Blanchard, B.S.

HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Development of ultra-fast oral disintegrating tablets for pediatric preanesthesia

David Mastropietro, Ph.D.

Jose Rocca, Ph.D.

Perpetua Shillingford, M.B.A.

HPD-PHR

HPD-PHR

HPD-PHR

*College of Pharmacy
Dean Michelle A. Clark, Ph.D.*

President's Faculty Research and Development Grants

E-senses for Monitoring the Health of Palms with Lethal Bronzing Disease

Jose Ramos, Ph.D.

CCE

Venkatesh Shanbhag, Ph.D.

HCAS

Angie Castillo

CCE

*College of Computing and Engineering
Dean Meline Kevorkian, Ed.D.*

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Evaluating the impact of enhanced TCM follow-up calls on hospital readmissions

Tricia Gangoo-Dookhan, Pharm.D.

Goar Alvarez, Pharm.D.

Paula Anderson-Worts, D.O.

Melissa Milfort, Pharm.D.

Danmin Lu, B.S.

Alecia Muwonge, M.S.

Maha Ighanifard, B.S.

Keinelys Maldonado, B.S.

HPD-PHR

HPD-PHR

HPD-KPCOM

HPD-PHR

HPD-PHR

HPD-PHR

HPD-KPCOM

HPD-PHR

President's Faculty Research and Development Grants

**Evaluating the impact of enhanced TCM
follow-up calls on hospital readmissions**

*College of Pharmacy
Dean Michelle A. Clark, Ph.D.*

*Dr. Kiran C. Patel College of Osteopathic Medicine
Dean Elaine M. Wallace, D.O., M.S., M.S., M.S., M.S.*

President's Faculty Research and Development Grants

Formative Research on Instructional Design Theory for Immersive VR in Higher Ed

Martha Snyder, Ph.D.

Steven Kramer, Ph.D.

Diane Lippe, Ed.S.

Sharan Sankar

FCE/SCJ

HCBE

OAA

HPD-PPCHCS

President's Faculty Research and Development Grants

Formative Research on Instructional Design Theory for Immersive VR in Higher Ed

*Abraham S. Fischler College of Education and School of Criminal Justice
Dean Kimberly Durham, Psy.D.*

*H. Wayne Huizenga College of Business & Entrepreneurship
Dean Andrew J. Rosman, Ph.D.*

President's Faculty Research and Development Grants

History in Bowhead Whale Baleen: A Newly Discovered Vault of Pollutant Records

Amy Hiron, Ph.D.	HCAS
Dimitrios Giarikos, Ph.D.	HCAS
Briana Coulter, B.S.	HCAS
Alydia Moorhead, B.S.	HCAS
Varun Natarajan, B.A.	HCAS
Zachary Pizzo, B.A.	HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Hybrid hydrogel for localized ocular drug delivery via conjunctival route

Yadollah Omid, Ph.D.

Hossein Omidian, Ph.D.

Young M. Kwon, Ph.D.

Nazanin Kianinejad, M.S.

Zahrah Asiri, Pharm.D.

HPD-PHR

HPD-PHR

HPD-PHR

HPD-PHR

HPD-PHR

*College of Pharmacy
Dean Michelle A. Clark, Ph.D.*

President's Faculty Research and Development Grants

Interactive Shared Decision Support For Prostate Cancer Patients and Providers

Julie Jacko, Ph.D.

François Sainfort, Ph.D.

Tim Page, Ph.D.

Emmanuel Jigo, Ph.D.

Ismael Voltaire, M.S.

NSU MD

HCBE

HCBE

NSU MD

HCBE

President's Faculty Research and Development Grants

Interactive Shared Decision Support For Prostate Cancer Patients and Providers

*Dr. Kiran C. Patel College of Allopathic Medicine
Dean Johannes W. Vieweg, M.D., FACS*

*H. Wayne Huizenga College of Business & Entrepreneurship
Dean Andrew J. Rosman, Ph.D.*

President's Faculty Research and Development Grants

Investigating the Effects of Supervisory Training with Psychology Trainees

William McKibben, Ph.D.	COP
Sarah Valley-Gray, Psy.D.	COP
Ralph (Gene) Cash, Ph.D.	COP
Peter Caproni, Ph.D.	COP
Eric Thompson, Ph.D.	COP

President's Faculty Research and Development Grants

Investigating the Effects of Supervisory Training with Psychology Trainees

Melody Schmaltz, M.S.

COP

Antonia (Lara) George, B.S.

COP

*College of Psychology
Dean Karen Grosby, Ed.D.*

President's Faculty Research and Development Grants

**Isolation and Characterization of Bacteriophage
That Target *Yersinia pestis***

Julie Torruellas Garcia, Ph.D.

HCAS

Patricia L. Blackwelder, Ph.D.

HCAS

Eben Gering, Ph.D.

HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

**Loggerhead and green turtle egg microbiome
analysis in Broward County, Florida**

Jose Victor Lopez, Ph.D.

Colleen McMaken, B.S.

HCAS

HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Microbiota Dysbiosis and Oxidative Stress: Post-COVID sequelae & ME/CFS

Amanpreet Cheema, Ph.D.

Nancy Klimas, M.D.

Samiksha Parsad, Ph.D.

Irina Rozenfeld, A.R.N.P.

Maria Abreu, Ph.D.

HPD-KPCOM

HPD-KPCOM

NSU MD

HPD-KPCOM

HPD-KPCOM

President's Faculty Research and Development Grants

Microbiota Dysbiosis and Oxidative Stress: Post-COVID sequelae & ME/CFS

Anaya Patel, B.S.

HCAS

Pranay Narang, B.S.

HCAS

Kenneth Bui, B.S.

HCAS

Genesis Picon Bautista, M.S.

COP

*Dr. Kiran C. Patel College of Osteopathic Medicine
Dean Elaine M. Wallace, D.O., M.S., M.S., M.S., M.S.*

*Dr. Kiran C. Patel College of Allopathic Medicine
Dean Johannes W. Vieweg, M.D., FACS*

President's Faculty Research and Development Grants

Molecular Analyses of the Five Pathways of DNA Repair in Gulf War Illness

Jean Latimer, Ph.D.

Stephen Grant, Ph.D.

Ali Almutairy, B.S.

HPD-PHR

HPD-KPCOM

HPD-PHR

*College of Pharmacy
Dean Michelle A. Clark, Ph.D.*

*Dr. Kiran C. Patel College of Osteopathic Medicine
Dean Elaine M. Wallace, D.O., M.S., M.S., M.S., M.S.*

President's Faculty Research and Development Grants

Occurrence and potential impacts of organic UV filters in *Acropora cervicornis*

Dorothy Ellen Renegar, Ph.D.

David Gilliam, Ph.D.

Megan McGrath, B.S.

HCAS

HCAS

HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Online Literacy Instructor Growth and Development in GSOLE's Online Certification

Janine Morris, Ph.D.

Bilal Amodu, B.A.

HCAS

HCAS

*Halmos College of Arts and Sciences
Interim Dean Andrea Nevins, Ph.D., M.S.A.*

President's Faculty Research and Development Grants

Site-specific thrombolytic bioconjugates to address MMP-9 burst from neutrophils

Young Kwon, Ph.D.

HPD-PHR

Yadollah Omid, Ph.D.

HPD-PHR

Hossein Omidian, Ph.D.

HPD-PHR

Michelle A. Clark, Ph.D.

HPD-PHR

Zahrah Asiri, Pharm.D.

HPD-PHR

Nazanin Kianinejad, M.S.

HPD-PHR

College of Pharmacy
Dean Michelle A. Clark, Ph.D.

President's Faculty Research and Development Grants

Therapeutic Compositions Containing Abuse-Deterrent and Surface-Active Agents

Hossein Omidian, Ph.D.

Yadollah Omid, Ph.D.

Anusha Thumma, M.S.

HPD-PHR

HPD-PHR

HPD-PHR

*College of Pharmacy
Dean Michelle A. Clark, Ph.D.*

President's Faculty Research and Development Grants

Weight stigma and couple functioning: A longitudinal actor-partner investigation

Paula Brochu, Ph.D.

COP

Emily Georgia Salivar, Ph.D.

COP

Alexandria Schmidt, M.S.

COP

College of Psychology
Dean Karen Grosby, Ed.D.

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**To All The President's Faculty
Research and Development Grant
Track 2
AWARD WINNERS!**

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Track 2:

The Research Scholar Track

President's Faculty Research and Development Grants

Feasibility, Acceptability and Effectiveness of Our Relationship for Older Adults

Emily Salivar, Ph.D.

COP

Ashley Stripling, Ph.D.

COP

Bailey McDonald, B.S.

COP

Elizabeth Schreiber, M.S.

COP

Claudia Hristova, B.A.

COP

Brittany Hylander, B.S.

COP

College of Psychology
Dean Karen Grosby, Ed.D.

President's Faculty Research and Development Grants

Students' Experiences Using Live Captions and Subtitles in Class Presentations

Anymir Orellana, Ed.D.

FCE/SJC

Georgina Arguello, Ed.D.

FCE/SJC

Elda Kazki-Veloso, Ph.D.

COP

Renata Goldhagen, M.S.

COP

Luis Torres, M.S.

FCE/SJC

President's Faculty Research and Development Grants

Students' Experiences Using Live Captions and Subtitles in Class Presentations

*Abraham S. Fischler College of Education and School of Criminal Justice
Dean Kimberly Durham, Psy.D.*

*College of Psychology
Dean Karen Grosby, Ed.D.*

Thank You

Thank You to our PFRDG Advisory Committee for their hard work & participation in the FY2022 President's Faculty Research & Development Grant

Anastasios Lymperopoulos, Ph.D.

Lubov Nathanson, Ph.D.

Robert Smith, Ph.D.

Jaime Tartar, Ph.D.

Thank You

**Thank You to our Reviewers for their hard work & participation in the FY2022
President's Faculty Research & Development Grant**

Georgina Arguello, Ed.D.

Vladimir Beljanski, Ph.D.

Patricia Calvo, Ph.D.

Jing Chen, Ph.D.

Katie Crump, Ph.D.

Richard Deth, Ph.D.

Baiyun Gong, Ph.D.

Jeffrey Kibler, Ph.D.

Stefanie LaManna, Ph.D.

Paul Baldauf, Ph.D.

Jessica Brown, Ph.D.

Katelyn Carnevale, Ph.D.

Luvencia Connor, Ed.D.

Kelley Davis, Ph.D.

Peter Gannett, Ph.D.

Mary Ellen Holschbach, Ph.D.

Evren Kilinc, Ph.D.

Arkene Levy, Ph.D.

Thank You

**Thank You to our Reviewers for their hard work & participation in the FY2022
President's Faculty Research & Development Grant**

Anastasios Lymperopoulos, Ph.D.

Dmitriy Minond, Ph.D.

Alexandra Perez, Pharm.D.

Samiksha Prasad, Ph.D.

Appu Rathinavelu, Ph.D.

Venkatesh Shanbhag, Ph.D.

Aya Shigeto, Ph.D.

Eric Thompson, Ph.D.

Kurt Wurthmann, Ph.D.

William Mckibben, Ph.D.

Lubov Nathanson, Ph.D.

Charles Powell, Ph.D.

Hugh Rappa, M.D.

Patricia Rose, Ph.D.

Nurit Sheinberg, Ed.D.

Devada Singh, Pharm.D.

Brian Van Hoozen, Ph.D.