

NOVA SOUTHEASTERN UNIVERSITY

18TH ANNUAL
**QUALITY OF LIFE
FACULTY COMMUNITY-BASED
APPLIED RESEARCH GRANT**

AND

21ST ANNUAL
**PRESIDENT'S FACULTY RESEARCH
AND DEVELOPMENT GRANT**

QOL GRANT WINNERS

◆ PI ◆ Co PI ◆ Faculty ◆ Staff and Students

GROUP 1

An Evaluation of a Preschool-based Intervention Program to Reduce the Incidence of Challenging Behaviors, Expulsion Rates, and Teacher Self-efficacy in Early Education Settings

- ◆ Nurit Sheinberg, Ph.D.
- ◆ Lorraine Breffni, Ed.D.
- ◆ David Reitman, Ph.D.

Community Partner(s): *Jack and Jill Children's Center and Mandel JCC of Boynton Beach*

Collaborative Center(s): *Mailman Segal Center for Human Development and College of Psychology*

GROUP 2

An Exploratory Study of the Impact of a Coping Skills Program on Individuals with Intellectual Disability

- ◆ Maribel Del Rio-Roberts, Psy.D.
- ◆ Amanda Shaleen, M.A.

Community Partner(s): *Special Olympics Florida*

Collaborative Center(s): *Abraham S. Fischler College of Education and School of Criminal Justice and College of Psychology*

GROUP 3

Improving Healthcare Outcomes for LGBTQ Seniors: A Community Linked Cultural Competency Initiative

- ◆ Arkene Levy, Ph.D.
- ◆ Chasity O'Malley, Ph.D.
- ◆ Daniel Griffin, Ph.D.
- ◆ Samiksha Prasad, Ph.D.
- ◆ Justin Maki, Ph.D.
- ◆ Suzanne Templer, D.O.
- ◆ Jacob Oster, M.A.

Community Partner(s): *SunServe*

Collaborative Center(s): *Dr. Kiran C. Patel College of Allopathic Medicine and College of Psychology*

GROUP 4

Mindfulness Meditation Intervention for Veterans with Traumatic Brain Injury

- ◆ William Kochen, Ph.D.
- ◆ Jonathon Banks, Psy.D.
- ◆ Douglas Gibson, Psy.D.
- ◆ Daniela Branson, M.A.

Community Partner(s): *West Palm VA Medical Center and Miami VA Medical Center*

Collaborative Center(s): *College of Psychology*

GROUP 5

Mixed Methods Analysis of Mindfulness Meditation in South Florida Veteran Population

- ◆ Molly J. Scanlon, Ph.D.
- ◆ Ali Panahi, Ph.D.
- ◆ Matt Chenworth, M.Ed.
- ◆ Deborah Lara, M.S.
- ◆ Sara Gorman, M.S.
- ◆ Priscilla Jordan, M.S.
- ◆ Joshua Bennett, M.S.

Community Partner(s): *Yoga for Vets*

Collaborative Center(s): *College of Arts, Humanities, and Social Sciences and College of Computing and Engineering*

QOL GRANT WINNERS *(continued)*

◆ PI ◆ Co PI ◆ Faculty ◆ Staff and Students

GROUP 6

Recipes for Health: A Community-based Nutrition Intervention

- ◆ Nadine Mikati, Ph.D.
- ◆ Stephanie Petrosky, M.H.A.
- ◆ Barbara Arcos, D.O.
- ◆ Ioana Scripa, Ph.D.
- ◆ Marilyn Gordon, Ed.D.

Community Partners(s): *Baptist Health South Florida and Common Threads Collaborative Center(s): Dr. Kiran C. Patel College of Osteopathic Medicine*

GROUP 7

The Development of an After-school Program to Increase the Stem Interest and Awareness of Ninth-grade Minority Females in a Title I High School

- ◆ Hui Fang Huang Su, Ed.D.
- ◆ Steven R. Terrell, Ph.D.
- ◆ Dylan Mandolini, M.S.

Community Partner(s): *Forest Hill High School and South Florida Science Center and Aquarium*

Collaborative Center(s): *Abraham S. Fischler College of Education and School of Criminal Justice and College of Computing and Engineering*

GROUP 8

Outstanding QOL Community Partner of the Year: *Special Olympics Florida*

GROUP 9

Quality of Life Reviewers

- Shannon Karl, Ph.D.
- Guy Nehrenz, Ed.D.
- James Pann, Ph.D.
- Steven Ronik, Ed.D.
- Nurit Sheinberg, Ed.D.
- Dana Mills, Ph.D.

GROUP 10

PFRDG Advisory Committee

- Anastasios Lymeropoulos, Ph.D.
- Lubov Nathanson, Ph.D.
- Robert Smith, Ph.D.
- Jaime Tartar, Ph.D.

GROUP 11

PFRDG Reviewers/Panel Chairs

- Paul Baldauf, Ph.D.
- Vladimir Beljanski, Ph.D.
- Barry Bleidt, Ph.D.
- Jessica Brown, Ph.D.
- Katelyn Carnevale, Ph.D.
- Gesulla Cavanaugh, Ph.D.
- Jing Chen, Ph.D.
- David Cho, Ph.D.
- Megan E. Colas, Ph.D.
- Joshua Costin, Ph.D.
- Katie Crump, Ph.D.
- Kelley Davis, Ph.D.
- Joshua Feingold, Ph.D.
- Evan Haskell, Ph.D.
- Jacqueline Hinckley, Ph.D.
- Mary Holschbach, Ph.D.
- Julie Jacko, Ph.D.
- Toshihisa Kawai, Ph.D.
- David Kerstetter, Ph.D.
- Deepesh Khanna, Ph.D.
- Jeffrey Kibler, Ph.D.
- Evren Kilinc, Ph.D.
- Arkene Levy, Ph.D.
- Eric Mason, Ph.D.
- Madhavi Menon, Ph.D.
- Dmitriy Minond, Ph.D.
- Alexandru Movila, Ph.D.
- Lubov Nathanson, Ph.D.
- Chasity O'Malley, Ph.D.
- Andrew Ozga, Ph.D.
- Thomas Panavelil, Ph.D.
- Michael Parker, Ph.D.
- Mayur Parmar, Ph.D.
- Alina Perez, J.D.
- Samiksha Prasad, Ph.D.
- Appu Rathinavelu, Ph.D.
- Venkatesh Shanbhag, Ph.D.
- Nurit Sheinberg, Ed.D.
- Michael Simonson, Ph.D.
- Weylin Sternglanz, Ph.D.
- Algevis Wrench, Ph.D.
- Michelle Zhao, Ph.D.

PFRDG GRANT WINNERS

◆ PI ◆ Co PI ◆ Faculty ◆ Staff and Students

TRACK 1—The Research Development Track

GROUP 12

Antioxidant and Methylation Pathways in the BTBR Model of Autism

- ◆ Richard Deth, Ph.D.
- ◆ Ana Castejon, Ph.D.
- ◆ Malav Trivedi, Ph.D.
- ◆ Andres Irausquin, B.S.

Collaborative Center(s): *College of Pharmacy—Dean Michelle A. Clark, Ph.D.*

GROUP 13

Bromeliad Phytotelmata as Sources of Novel Mosquito Control Agents

- ◆ Aurelien Tartar, Ph.D.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 14

Comprehensive Assessment of Environmental Associations & the Salivary Microbiome

- ◆ Samiksha Prasad, Ph.D.
- ◆ Shivani Kaushal, B.S.
- ◆ Algevis Wrench, Ph.D.
- ◆ Janelle Torres, B.S.
- ◆ Jose Lopez, Ph.D.
- ◆ Christopher Mariani, B.S.
- ◆ Andrew Ozga, Ph.D.
- ◆ Vivianne Gonzales, B.S.

Collaborative Center(s): *Dr. Kiran C. Patel College of Allopathic Medicine—Dean Johannes W. Vieweg, M.D., and Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 15

Desperate Larvae or Death Before Dishonor: Can Old Coral Larvae Recover Reefs?

- ◆ Joana Figueiredo, Ph.D.
- ◆ Rachel Ionata, B.S.
- ◆ Ashlee Steinberg, B.S.
- ◆ Morgan Short, B.S.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 16

Development of Immobilized Enzyme Reactors for Oncolipidomics

- ◆ Richard Perry, Ph.D.
- ◆ Emmanuela Pierre
- ◆ Robert C. Speth, Ph.D.
- ◆ Rhea Kanwar
- ◆ Dmitriy Minond, Ph.D.
- ◆ Zakariya Mujeeb

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.; College of Pharmacy—Dean Michelle A. Clark, Ph.D.; and Rumbaugh-Goodwin Institute for Cancer Research—Executive Director Appu Rathinavelu, Ph.D.*

GROUP 17

Differences Between Two Spanish Versions of the PAI Among the Latinx Population

- ◆ Tom Kennedy, Ph.D.
- ◆ Vanessa Finkelman, M.S.
- ◆ Ryan Black, Ph.D.
- ◆ Alexandra Ramos, M.S.
- ◆ Wendy Cook, M.S.

Collaborative Center(s): *College of Psychology—Dean Karen Grosby, Ed.D.*

PFRDG GRANT WINNERS *(continued)*

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GROUP 18

Effect of ME/CFS on Transcriptional Changes in Immune Cells Subtypes

- ◆ Lubov Nathanson, Ph.D.
- ◆ Vladimir Beljanski, Ph.D.
- ◆ Ambika Kapil
- ◆ Kyle Hansotia

Collaborative Center(s): *Dr. Kiran C. Patel College of Osteopathic Medicine—Dean Elaine M. Wallace, D.O.*

GROUP 19

Effects of E-cig-delivered Nicotine on Airway Beta2-adrenergic Receptors

- ◆ Anastasios Lymperopoulos, Ph.D.
- ◆ Celina Pollard, B.S.
- ◆ Beatrix Aukszi, Ph.D.
- ◆ Krysten Ferraino, B.S.
- ◆ Natalie Cora, B.S.
- ◆ Arianna Perez, B.S.
- ◆ Jennifer Ghandour, B.S.

Collaborative Center(s): *College of Pharmacy—Dean Michelle A. Clark, Ph.D., and Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 20

Forces Affecting Gonopodium Morphology of Eastern Mosquitofish in the Everglades

- ◆ Jeffery Hoch, Ph.D.
- ◆ Dyane Olivia, Ph.D.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 21

Illuminating the Contribution of Different Organisms to Coral Reef Calcification

- ◆ Tyler Cyronak, Ph.D.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 22

Investigating How Metabolic Efficiency Determines the Inoculum Effect

- ◆ Robert Smith, Ph.D.
- ◆ Kavish Patel
- ◆ Sophia Mirkin

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 23

Investigating the Role of Rab8a in 4R-tauopathies

- ◆ Mayur Parmar, Ph.D.
- ◆ Nabila Rehman, B.S.
- ◆ Kaitlyn Alessi, B.A.
- ◆ Eliyah Pollak, B.S.

Collaborative Center(s): *Dr. Kiran C. Patel College of Osteopathic Medicine—Dean Elaine M. Wallace, D.O.*

PFRDG GRANT WINNERS *(continued)*

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GROUP 24

Investigation of Extracellular ATP as Novel Biomarker for Periodontitis

- ◆ Saynur Vardar-Sengul, Ph.D.
- ◆ Alireza Heidari, Ph.D.
- ◆ Toshihisa Kawai, Ph.D.
- ◆ Patrick C. Hardigan, Ph.D.
- ◆ Gabriella D. Ambrose, D.M.D.
- ◆ Jason Wong, D.M.D.
- ◆ Yuanchun Zhou, B.S.

Collaborative Center(s): *College of Dental Medicine—Interim Dean Steven I. Kaltman, D.M.D., M.D., FACS*

GROUP 25

Modeling ALS with Human iPSC Derived Motor Neurons

- ◆ Geeta Ravindran, Ph.D.
- ◆ Ron Thomas, B.S.
- ◆ Malav Trivedi, Ph.D.
- ◆ Sashana Dixon, B.S.
- ◆ Yumma Indorewala
- ◆ Zayna Motiwala

Collaborative Center(s): *Dr. Kiran C. Patel College of Allopathic Medicine—Dean Johannes W. Vieweg, M.D.*

GROUP 26

Molecular Mechanisms of Particle-induced Osteolysis Lesions in Relation to Aging

- ◆ Alexandru Movila, Ph.D.
- ◆ Toshihisa Kawai, Ph.D.
- ◆ Carolina Duarte, D.D.S.
- ◆ Juliet Akkaoui, M.S.
- ◆ Chiaki Yamada, D.D.S.
- ◆ John Keigher, B.S.
- ◆ Anny Ho, B.S.

Collaborative Center(s): *College of Dental Medicine—Interim Dean Steven I. Kaltman, D.M.D., M.D., FACS*

GROUP 27

Oral Microbial Ecologies of South Floridians: Impacts of Health and Environment

- ◆ Andrew Ozga, Ph.D.
- ◆ Jose Lopez, Ph.D.
- ◆ Toshihisa Kawai, Ph.D.
- ◆ Saynur Vardar-Sengul, Ph.D.
- ◆ Cristina E. Garcia-Godoy, M.P.H.
- ◆ Michael Shen, HSD
- ◆ Sunwoo Kim, HSD
- ◆ Charles Chang, HSD
- ◆ Amulya Koristala, HSD

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D., and College of Dental Medicine—Interim Dean Steven I. Kaltman, D.M.D., M.D., FACS*

GROUP 28

Post-release Survival/Mortality and Behavior of Recreationally Caught Mako Sharks

- ◆ Jeremy Vaudo, Ph.D.
- ◆ Mahmood Shiviji, Ph.D.
- ◆ Ryan Logan, M.S.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

PFRDG GRANT WINNERS *(continued)*

◆ PI ◆ Co PI ◆ Faculty ◆ Staff and Students

GROUP 29

Social Stress and Traumatic Brain Injury

- ◆ William Kochen, Ph.D.
- ◆ Mary Holschbach, Ph.D.
- ◆ Jacqueline Vazquez
- ◆ Haylee Garling

Collaborative Center(s): *College of Psychology—Dean Karen Grosby, Ed.D.*

GROUP 30

Synthesis of Rare Earth Free Magnetic Nanoparticles

- ◆ David Carnevale Jr., Ph.D.
- ◆ Jordan Zephir
- ◆ Anjali George

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

TRACK 2—The Research Scholar Track

GROUP 31

A Study of Innovation: Leader and Top Management Team Innovation

- ◆ Eleanor Lawrence, Psy.D.
- ◆ Leslie Tworoger, D.B.A.
- ◆ Julie Jacko, Ph.D.
- ◆ Emmanuel Jigo, M.S.

Collaborative Center(s): *H. Wayne Huizenga College of Business and Entrepreneurship—Dean Andrew Rosman, Ph.D.*

GROUP 32

Listening to Traditional Medicine Healers. What Can We Learn About Wellness?

- ◆ Janet Roseman, Ph.D.
- ◆ Alison Bested, M.D.
- ◆ Gena Meroth, M.L.I.S.

Collaborative Center(s): *Dr. Kiran C. Patel College of Osteopathic Medicine—Dean Elaine M. Wallace, D.O.*

GROUP 33

Self-Assembling Organic Materials

- ◆ Russel Driver, Ph.D.
- ◆ Kian Memari, B.S.

Collaborative Center(s): *Halmos College of Natural Sciences and Oceanography—Dean Richard E. Dodge, Ph.D.*

GROUP 34

Virtual Reality Simulation in Allied Health Education: A Systematic Review

- ◆ Jonathon Caplan, M.S.
- ◆ Melinda Johnson, M.S.
- ◆ Melissa Morris, M.S.N.
- ◆ Vanessa Johnson, Ph.D.
- ◆ Melba Ovalle, M.D.
- ◆ Amanda Speights, M.S.

Collaborative Center(s): *Dr. Pallavi Patel College of Health Care Sciences—Dean Stanley H. Wilson, PT, Ed.D., CEAS*

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.

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.

VISION 2020

By 2020, through excellence and innovations in teaching, research, service, and learning, Nova Southeastern University will be recognized by accrediting agencies, the academic community, and the general public as a premier, private, not-for-profit university of quality and distinction that engages all students and produces alumni who serve with integrity in their lives, fields of study, and resulting careers

MISSION

The mission of Nova Southeastern University, a private, not-for-profit institution, is to offer a diverse array of innovative academic programs that complement on-campus educational opportunities and resources with accessible distance-learning programs to foster academic excellence, intellectual inquiry, leadership, research, and commitment to community through engagement of students and faculty members in a dynamic, lifelong learning environment.

CORE VALUES

Academic Excellence	Opportunity
Student Centered	Scholarship/Research
Integrity	Diversity
Innovation	Community