



McNair Memo

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Congratulations Summer 2004 Mentors and Scholars



Summer 2004 McNair Scholars and their Mentors at the Annual Awards Banquet

Twenty four SDSU McNair Scholars completed 10 weeks of intensive research this past summer. The Scholars conducted over 300 hours of research, presented their research using PowerPoint at UCSD, and wrote research articles to be published in the SDSU McNair Journal Volume XI, Summer 2004. Following is a list of the Summer 2004 Scholars, by major, including their mentor and research title:

AEROSPACE ENGINEERING

Behzad Behrouzi

Mentor: Michael Levy, M.D., Ph.D., Pediatric Neurosurgery, UCSD
Development of a valve-less shunt system

ANTHROPOLOGY

Maria Brodine

Mentor: Ramona Perez, Ph.D., Anthropology, SDSU
Art Beyond Borders: the Development of a Community

BIOLOGY

Jose Alvarenga

Mentor: Cesar Arenas-Mena, Ph.D., Biology, SDSU
Sequencing and Characterization of Gata E Transcription Factor in a Serpulid Worm

Veleka Boyd

Mentor: Greg Harris, Ph.D., Biology, SDSU
Obesity Studies: Overexpression of enzymes in

the Sphingolipid Metabolic Pathway in Drosophila Mutants

Alfonso Clemente

Mentor: Cesar Arenas-Mena, Ph.D., Biology, SDSU
Cloning of Sox B Orthologs in a Serpulid Annelid

Kalisha McIntosh

Mentor: Karen Coleman, Ph.D., Graduate School of Public Health, SDSU
African-American Women and Diabetes: Discovering the Role of Culture in the Prevention and Treatment of Disease

Monica Netherly

Mentors: John Love, Ph.D. and Hong-Chang Liang, Ph.D., Chemistry, SDSU
The Expression and Purification of Myoglobin

Rodrigo Rodriguez

Mentors: John Love, Ph.D. and Hong-Chang Liang, Ph.D., Chemistry, SDSU
Docking of Organometallic Compounds in Myoglobin: Expression and Purification of Wild-Type Myoglobin

CHEMISTRY

Chris Carroll

Mentor: Shelli McAlpine, Ph.D., Chemistry, SDSU
Synthesis of Second Generation Macrocycles Designed to Trap Holliday Junctions

Summer 2004 Research Projects continued . .

Genaro Hernandez

Mentor: William Stumph, Ph.D., Chemistry, SDSU

Expression, Purification, and Binding Activity of DmPBP: A Protein Required for Transcription of *Drosophila melanogaster* Genes Coding for U1 and U6 Small Nuclear RNAs

Irene Medina

Mentor: Shelli McAlpine, Ph.D., Chemistry, SDSU

Holliday Junction Compounds

CLASSICS

Xenia de la Rocha

Mentor: Adelaida del Castillo, Ph.D., Chicana/o Studies, SDSU

Reconsidering Sor Juana: Critical Approaches to Octavio Paz's Interpretation of First Dream

COMMUNITY HEALTH EDUCATION

Paulina Martinez

Mentor: Maria Luisa Zuñiga, Ph.D., Division of Community Pediatrics, UCSD

Application of Qualitative Analysis Procedures to Understand the Perspectives of HIV+ Latinas on Participation in Clinical Trials

MATH

Veronica Baez

Mentors: Rafaela Santacruz, Ph.D., School of Education, SDSU and Berenice Gil, M.A., Barrio Logan College Institute

Mathematics Anxiety in Hispanic Female Middle School Students Attending Barrio Logan College Institute

PSYCHOLOGY

Betty Crawford

Mentor: Dennis Saccuzzo, Ph.D., J.D., Psychology, SDSU

The Relationship Between Self-Efficacy and Bio-Mechanics to Improve Free-Throw Shooting: A Brief Intervention

Jazmine Cuevas

Mentors: Emilio Ulloa, Ph.D., Psychology, SDSU and Monica Ulibarri, M.A., CBEACH, SDSU

Social Support for Disclosure of Child or Adult Sexual Abuse Among College Women

Marc Emerson

Mentor: Vanessa Malcarne, Ph.D., Psychology, SDSU

Strategies for Managing Fatigue in African

American Cancer Survivors

Nicole Grant

Mentor: Juanita Cole, Ph.D., Laboratory of Comparative Human Cognition, UCSD

The Effects of Dance on Adolescents' Psychosocial Development

Starlyn Hawes

Mentor: Vanessa Malcarne, Ph.D., Psychology, SDSU

Problems Faced by Spouses/Partners of Prostate Cancer Patients: Relationship to Problem-Solving and Mood

Veleshia Hilliard

Mentor: Robert McGivern, Ph.D., Psychology, SDSU

An Assessment of Computer Intervention on the Pre-Literacy Skills of Head Start Children

Laura Ochoa

Mentor: Wendell J. Callahan, Ph.D., L.E.P., San Diego County Office of Education and Psychology, SDSU

A Preliminary Investigation of the Attendance and Recidivism Rates of the SB1095 Program

Ashlee Powell

Mentor: James Sallis, Ph.D., Psychology, SDSU

Psychosocial Correlates of Physical Activity in University Students

Lynn Whinery

Mentor: Jennifer Thomas, Ph.D., Psychology, SDSU

Exercise as a Treatment for Some Fetal Alcohol Effects

SOCIAL SCIENCE

Lizette Perez

Mentor: Adelaida del Castillo, Ph.D., Chicana/o Studies, SDSU

Manumission and Gender in 18th Century Spanish Louisiana: The Role of Women in the Establishment of a Free Black Society