

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Paula E. Gregory	POSITION TITLE <p style="text-align: center;">Professor</p>		
eRA COMMONS USER NAME (credential, e.g., agency login) PGREGO			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
University of Southern Mississippi	B.S.	1977	Biology
University of Southern Mississippi	M.S.	1979	Cell Biol & Genetics
Tulane University	Ph.D.	1988	Cancer Cytogenetics
University of Alabama at Birmingham	Post doc	1986-1990	Cell & Molec Bio
University of Michigan	Post doc	1990-1991	Genetics

A. PERSONAL STATEMENT

I began coordinating summer internship programs when I arrived at NIH, with the summer of 1994. In my position at NHGRI, I placed students in labs every summer, coordinating over 1,000 applications for the 30 internship slots that were available in intramural labs. At Ohio State University, I was awarded an R25 from the NCI that funded summer cancer research experiences for medical students. As the PI, I was responsible for recruitment, placement of students and coordination of all programmatic aspects of the program. In 2002, I moved that grant with me to LSU and continued offering internships until 2006. Because of this experience, the Dean of the School of Medicine asked me to coordinate a Xavier Summer Internship Program (XSIP) funded through his office. That program was designed to build a pipeline for Xavier students to work with LSUHSC researchers. We have now successfully run that program for four summers and several of the students have been asked to work throughout the year with their research mentors. We do not yet have data concerning their career trajectory but anticipate seeing them apply to biomedical research graduate programs. With over 20 years of experience establishing, coordinating and evaluating summer research programs, I am uniquely qualified to work with this BUILD program.

B. POSITIONS AND HONORS

Employment

1978-1979	Cytogenetic Technologist, Clinical Pathology, M.D. Anderson Hosp., Houston, TX
1980-1982	Research Assistant, Anatomy Dept., Univ. of Mississippi Med Ctr., Jackson, MS
1980-1983	Part-time Instructor, Biology Dept., Hinds Community College, Raymond, MS
1983-1986	Part-time Instructor, Biology Dept., William Carey College, Hattiesburg, MS
1987-1990	Research Instructor, Anatomy & Cell Biology, Univ. of Alabama, Birmingham, AL
1988-1990	Part-time Instructor, Biology Dept., Judson College, Centerville, AL
1990-1991	Visiting Lecturer, Dept. Anatomy & Cell Biology, Univ. of Michigan, Ann Arbor, MI
1991-1993	Education Director, Human Genome Center, Univ. of Michigan, Ann Arbor, MI
1991-1993	Research Scientist, Dept. Internal Medicine, Univ. of Michigan, Ann Arbor, MI
1993-1997	Chief, Genetics Education Office, NHGRI, NIH, Bethesda, MD
1997-2000	Adjunct Assistant Professor, Medical Microbiology and Immunology Dept., the Ohio State University, Columbus, OH
1998-2002	Member, Comprehensive Cancer Center, Ohio State University, Columbus, OH
2000-2002	Assistant Professor, Dept of Molecular Virology, Immunology & Medical Genetics, Ohio State University, Columbus, OH
2002-2012	Associate Professor, Dept. of Genetics, LSUHSC, New Orleans, LA
2002-	Member, Stanley Scott Cancer Center, LSUHSC, New Orleans, LA

2007 Associate Professor (tenured), Dept. of Genetics, LSUHSC, New Orleans
2009- Director of Faculty Development, LSUHSC School of Medicine, New Orleans, LA
2012- Professor, Dept. of Genetics, LSUHSC, New Orleans, LA

Professional Memberships

1982- American Society for Human Genetics
1998-2000 Chair, Information and Education Committee, Am. Soc. Hum. Gen.
1997- American Society for Gene Therapy
1997- Member, Education Committee, Am Soc. Gene Ther.
2000-2002 Coordinator of Minority Recruitment, Integrated Biomed Grad Program, OSU
2001-2002 Admissions Committee, College of Medicine, OSU
2003-2008 LSUHSC Faculty Assembly Delegate

Honors

1994 NHGRI Award of Merit
1997 NIH Director's Award
1998 NIH Award of Merit
1999 "Champions of the James" Award of Excellence, James Cancer Hospital, OSU
2000 Commendation from the Ohio House of Representatives for public education
2013 Copping Award for Excellence in Teaching, LSUHSC Sch. Of Medicine

NHLBI - Programs in Genomic Applications Centers Grants; August, 2000 Study Section
NHGRI - ELSI program grants; November, 2000 Study Section
NIH/NHLBI - External Scientific Panel for Programs in Genomic Analysis grantees
NIH/NHGRI - *Ad hoc* SBIR/STTR Study Section 2002 – present
NIH/NHLBI - Special Emphasis Panel: NRSA proposals (T32s) and Conference Grants (R13s)
NIH/SBIR - Special Emphasis Panel: SBIRs for NCI
Canadian Institutes of Health Research - *Gene-Environment Interaction IHRT-Ext.Advis.Com.*
NIH/NHLBI Special Emphasis Panel T35 proposal reviewer
NYSTEM Pre-college teacher program grant reviewer

A. SELECTED PEER-REVIEWED PUBLICATIONS

1. **Gregory PE**, Howard-Peebles PN, Ellender RD, Martin BJ. C-banding of chromosomes from three established marine fish cell lines. *Coepia* 3:545-547, 1980.
2. **Gregory PE**, Howard-Peebles PN, Ellender RD, Martin BJ. Analysis of a marine fish cell line from a male sheepshead. *J Hered* 71:209-211, 1980.
3. **Gregory PE**, Greene C, Shapira E, Wang N. Changes in the X chromosome replication pattern induced by 5-azacytidine in a patient with Klinefelter syndrome. *Cytogenet Cell Genet* 39:234-236, 1985.
4. **Gregory PE**, Wang NW, Howard-Peebles PN. Analysis of sister chromatid exchanges in Fra(X) individuals. *Am J Med Genet* 23:563-566, 1985.
5. **Gregory PE**, Wang NW. Analysis of X-chromosome replication pattern induced by 5-azacytidine in a human tumor line. *Cancer Genet Cytogenet* 20:263-267, 1986.
6. Bunnell BA, Fillmore H, **Gregory PE**, Kidd VJ. A dominant negative mutation in two proteins created by ectopic expression of an Au-rich 3' untranslated region. *Somat Cell Mol Genet* 16:151-162, 1989.
7. Wallace MR, Anderson LB, Saulino A, Brereton A, **Gregory PE**, Glover TW, Collins FS. A *de novo* Alu insertion results in neurofibromatosis type 1. *Nature* 353:864, 1991.

8. **Gregory PE**, Guttman DH, Mitchell AL, Park S, Jacks T, Wood DL, Boguski M, Jove R, Collins FS. The neurofibromatosis type gene product co-localizes with microtubules. *Somat Cell Mol Genet* 3:265-274, 1993.
9. ASHG Information and Education Committee. Report from the ASHG Information and Education Committee: Medical School Core Curriculum. *Am J Hum Genet* 56:535-537, 1995.
10. Wijmenga C, **Gregory PE**, Schrock E, Ried T, Eils R, Liu PP, Collins FS. The CBF- β -SMMHC Chimeric protein involved in acute myeloid leukemia forms novel nuclear plate-like structures in transformed NIH 3T3 cells. *Proc Natl Acad Sci USA*, 93:1630-1635,1996.
11. Munn M, Skinner PO, Conn L, Horsma HG, **Gregory PE**. The involvement of genome researchers in high school science education. *Genome Res* 9(7):597-607, 1999.
12. **Gregory PE**, The Human Genome Project and the Future of Medicine. *The Scapel*. 71 (2):11, 2001.
13. Espandar L, Bunnell B, Wang GY, **Gregory P**, McBride C, Moshirfar M. Adipose-Derived Stem Cells on Hyaluronic Acid-Derived Scaffold: A New Horizon in Bioengineered Cornea. *Arch Ophthalmol*. 2012;130 (2):202-208. PMID: 22332213

C. RESEARCH SUPPORT

Ongoing Research Support

LACaTS Pilot Grant (0% effort)
NIGMS/NIH

Gregory/Karlitz (PI)

02/30/2015 – 12/30/2015

Detection of Hereditary Colorectal Cancer Mutations in Cajuns

Dr. Karlitz has shown that colorectal cancer (CRC) rates in whites in the Acadian parishes of Louisiana is among the highest in the U.S. We will determine whether the high CRC rates are due to a founder mutation in a Lynch Syndrome gene. We are analyzing tumor blocks from young white males with CRC for microsatellite instability.

Role: Co-PI

P60AA009803 (0% effort)
NIAAA/NIH

Gregory (Co-I)

LSUHSC CARC Pilot Project Core

The Comprehensive Alcohol Research Center Pilot Project Core provides a flexible means to develop and explore new research activities or directions, and unique scientific opportunities that have the potential to evolve into independently funded research projects. This activity is an important part of the CARC, as it 1) provides an avenue for the CARC to explore mission-related research directions independent of, but complementary to, existing Research Components, 2) attracts new investigators to the field of alcohol-related research.

Role: Co-I

UL1MD009607 (5% effort)
NIMHD/NIH

Gregory (Co-I)

09/26/2014 – 06/30/2019

Building Integrated Pathways to Independence for Diverse Biomedical Researchers

This program is designed to facilitate undergraduate biomedical research opportunities and increase diversity within the field. My role on the project is to work with Xavier students in matching them with research mentors at LSUHSC as well as helping them navigate placement in the NIH Summer Internship Program.

Role: Co-I

1T35HL105350-01 (0% effort) Gregory (PI) 03/01/2011 – 02/29/2016
 NHLBI/NIH
LSUHSC Summer Internship Program
 This Summer Internship Program (SIP) will support five medical students and is designed to cultivate their interest in research careers. We have identified faculty mentors within three Centers of Excellence working in the areas of heart or lung diseases. Students will conduct intensive hands on clinical or basic science research with LSU faculty.
 Role: PI

1T35DK093428-01 (0% effort) Gregory/Brantley(PI) 04/01/2012 - 03/31/2017
 NIDDK/NIH
Short Term Research Training for Medical Students
 This Summer Internship Program (SIP) will support twelve students and is designed to cultivate their interest in research careers. We have identified faculty mentors within at LSUHSC-NO and Pennington Biomedical Research Center in Baton Rouge working in the areas of diabetes, obesity and metabolic disorders. Students will conduct intensive hands on clinical or basic science research with LSU faculty.
 Role: Co-PI

1T35AA021097-01 (0% effort) Gregory/Molina (PI) 04/01/2012 – 03/31/2017
 NIAAA/NIH
Medical Student Alcohol Research Internship
 This Summer Internship Program (SIP) will support five students and is designed to cultivate their interest in research careers. We have identified faculty mentors at LSUHSC-NO working in the area of alcohol research. Students will conduct intensive hands on clinical or basic science research for eight weeks during the summer.
 Role: Co-PI

1R25AA021304-01 (0% effort) Gregory/Molina (PI) 04/05/2012 – 03/31/2017
 NIAAA/NIH
Louisiana SURE Program
 The Summer Undergraduate Research Experience (SURE) program will train the next generation of scientists by supporting students to work with researchers within the Comprehensive Alcohol Research Center (CARC) and is designed to cultivate their interest in research careers.
 Role: Co-PI

U54 RR033568-01 (20% effort) Cefalu (PI) 08/15/2012 - 06/30/2017
 NIH/NCRR
Louisiana Clinical and Translational Science Center
 The Louisiana Clinical and Translational Science (LA CaTS) Center involves 8 major academic, research and health care delivery institutions of Louisiana to provide a unified research infrastructure with an overall theme of “prevention, care and research of chronic diseases in the underserved population”.
 Role: Co-Director, Clinical Research Education, Mentoring and Career Development Core

1R25OD010515-01 (10% effort) Alam/Gregory (PI) 07/17/2012 – 06/30/2017
 OD/NIH
BEST Science!
 The major goal of this project is to provide teachers within the greater New Orleans area with training and support to conduct hands on activities with NIH curriculum supplements. This program will help to rebuild the school system that was devastated by Hurricane Katrina.
 Role: Co-PI

Completed Research Support

13MSRF14990000

Gregory (PI)

02/01/2013 – 01/31/2015

American Heart Association

LSU Health Sciences Fellowship Program

The LSU Health Sciences Fellowship Program will support three students and is designed to cultivate their interest in research careers. We have identified faculty mentors at LSUHSC-NO working in the area of heart disease. Students will conduct intensive hands on clinical or basic science research for ten weeks during the summer.

Louisiana Board of Regents Miller/Nelson (PI) Gregory Co-I 8/07 – 9/11

Clinical and Translational Research Education and Commercialization Program

The Clinical and Translational Research, Education, and Commercialization Project (CTRECP) is a joint effort of the Tulane University Health Sciences Center and the Louisiana State University Health Sciences Center-New Orleans, with funding from the Louisiana Board of Regents' (RC/EEP). This grant funds research projects and junior faculty training in clinical/translational research.

1R25CA82351

Gregory (PI)

8/1/99 – 7/31/05

NIH/NCI

Cancer Research Summer Internships for Medical Students

The major goal of this project is to provide stipends to support medical student research in OSU CCC laboratories for the summer. It also provides a summer lecture series, a poster session and travel scholarships for the students.

1R25CA87994

Gregory (PI)

8/01/00 - 7/31/05

NIH/NCI

Science for the New Millenium: High School Cancer Research Partnerships

The major goals of this project are to create hands-on lab experiences for high school students which clarify the role of genetic alterations in cancer and spark an interest in cancer research as a career

Pfizer Pharmaceuticals

1/1/99 – 12/30/99

Mini Med School

This is a community health education program which provides a free lecture series taught by OSU faculty