



CASE WESTERN RESERVE  
UNIVERSITY  
SCHOOL OF MEDICINE

# MINORITY GRADUATE STUDENT ORGANIZATION

## 2009-2010



For more information, please contact:  
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This booklet reflects a small sample of the highly talented and diverse graduate and postdoctoral population at Case School of Medicine. The Minority Graduate Student Organization meets monthly to provide members an opportunity to discuss research, hear from invited faculty, and to provide support to one another. Nearly five percent of all graduate students at Case are African American, Latino or Native American. The Office of Multicultural Affairs and the Office of Graduate Education are both committed to increasing the diversity of our graduate students at Case and assuring their development into superior investigators.

### **MGSO Advisors**



Alison K. Hall, PhD  
Director, Office of Graduate Education  
Director, PREP  
Associate Professor, Neurosciences

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PREP Scholars and Mentors, May 2008

### **A (really long) short history...**

Case has a long history of efforts including pre-college programs and undergraduate and graduate recruiting strategies that offer opportunities to diverse students in our graduate and medical schools.

The Office of Graduate Education led by Alison Hall, PhD has focused efforts in minority graduate student recruitment and support. We work closely with the Biomedical Sciences Training Program led by Martin Snider, PhD as well as the Medical Scientist Training Program led by Clifford Harding, MD, PhD, to recruit and retain a diverse group of PhD students. Our work at the School of Medicine is part of a comprehensive plan to promote access to CWRU's educational programs. Each of these individuals and the programs they coordinate are designed to insure that students are supported and are part of a community.

We have enjoyed vigorous minority student matriculation in the medical school as a result of longstanding efforts of the Associate Dean for Student Affairs, Robert Haynie, MD, PhD, in the office of Student Affairs and Joseph Williams, MPA, Director of Multicultural Affairs. An Office of Multicultural Programs (formerly Office of Minority Programs) was established at CWRU in 1971 to expand opportunities in medicine for underrepresented minorities. This office directs programs to help and encourage minority students to enter careers in medicine and biomedical research.

The Summer Medical and Dental Education Program, established in 1989 and funded by the Robert Wood Johnson is coordinated by Mr. Joseph Williams and provides opportunities for some 80 mostly minority college students. The SMDEP is a rigorous 6-week summer program designed to encourage students to pursue careers in medicine. The SMDEP program includes a series of lectures that focus on biomedical research, all given by medical school faculty. For more info, please see

<http://casemed.case.edu/omp/SMDEP.cfm>

The Scientific Enrichment & Opportunity Program was established to provide 30 talented, mostly minority Cleveland public high school students with a summer research experience in active biomedical laboratories, and this program is directed by Dr. Nathan Berger, MD. For more info, please see

[http://casemed.case.edu/cshs/community\\_progs.cfm](http://casemed.case.edu/cshs/community_progs.cfm)

Many students have their first experience in a summer research internship in a CWRU laboratory. A National Institutes of Health/ NHLBI T35 program for short term training for minority students has a long history at Case. The program provides summer research experiences for minority undergraduate and medical students. For more information, please visit <http://casemed.case.edu/omp/SummerResearch.cfm> . We also participate in the HHMI funded SPUR program <http://www.cwru.edu/artsci/biol/hhmi/spur.html>

In 2006, we began the Postbaccalaureate Research Education Program, funded by an R25 grant to Dr. Alison Hall, PhD. PREP supports 5 recent underrepresented minority or disadvantaged college graduates who are preparing for a career in biomedical research. The program offers a paid research experience, a tailor-made program of study, GRE workshops, and a variety of venues to interact with and learn from some of the best researchers in the world. <http://gradresed.meds.cwru.edu/prep/>

In 2009, 13% of the incoming BSTP students were minority students, and they join the many students already in PhD and MD-PhD programs at Case Western Reserve University School of Medicine. These students and their activities are highlighted in this booklet.

Longitudinal experiences for minority PhD students are offered in the Minority Graduate Student Organization, co-sponsored by Multicultural Affairs and Graduate Education at the SOM. This group has monthly meetings, and identifies a visiting scientist to host each year. The MGSO became officially recognized as a graduate organization by the Graduate Student Senate in 2005. For more info, please see <http://casemed.case.edu/gradprog/mgso.html>.

## **MGSO Activities 2009-2010**

September 14<sup>th</sup>, 2009 – General Meeting

October 16<sup>th</sup>, 2009 – Guest speaker, Andrea Ramos, PREP Scholar Alum, current PhD Candidate at University of Michigan Medical School.

November 10<sup>th</sup>, 2009 – General Meeting

December 4<sup>th</sup>, 2009 – Guest speaker, Carlos De Leon Rogriguez, PREP Scholar Alum, current PhD Candidate at Albert Einstein School of Medicine, NY.

December 14<sup>th</sup>, 2009 – Faculty speaker, Angel Luciano, MD, Assistant Professor of Pediatrics, CWRU-UH



## **MGSO Graduate Students 2009-2010**



<b>Last Name</b>	<b>First Name</b>	<b>Department/Program</b>	<b>Research Mentor</b>	<b>Emails (hyperlinked are MGSO members)</b>
Abokor	Saed	BSTP First Year	Rotating '09	Sxa359@case.edu
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## Profiles of Current MGSO Members – Graduate Students




Name	Profile and publications
<p>Saed Abokor</p>	<p>Saed is a first year PhD student in the BSTP program; he is currently rotating in various labs. He is a college graduate of Fayetteville State University.</p>
<p>Harriet Babikako</p> 	<p>Harriet is a PhD student in Epidemiology &amp; Biostatistics working with Duncan Neuhasuer. She earned her MPH from Case in 2008 and is a college graduate of Makerere University, Uganda.</p>
<p>Melissa Babilonia-Rosa</p> 	<p>Melissa is a PREP Scholar in the department of Pharmacology mentored by Michael Maguire. Her research project focuses on membrane domain movement in the CorA Mg<sup>2+</sup> channel. Melissa first came to CWRU as an undergraduate researcher in 2008 through the SPUR program; her research focused on cytochrome c: isolation of a O<sub>2</sub> oxidized peptide and induced peroxidase activity. She graduated with a BS in Industrial Chemistry from the University of Puerto Rico, Humacao in 2009.</p>





Name	Profile and publications
<p>Allan B. Chiunda, MPH</p>	<p>Allan Chiunda is a dual degree MD/PhD student in Epidemiology and Biostatistics. Prior to entering the program, Allan attained a BS in Biology from Birmingham-Southern College in 1997 and a MPH from University of Alabama at Birmingham in 1999. He worked at the Tuberculosis Research Unit (TBRU) as a Project Manager and Statistical Analyst for 6 years and was involved in developing, conducting and analyzing clinical tuberculosis (TB) research based in Uganda. Furthermore, Allan has been involved with the local TB clinic in community TB outbreak investigation and control utilizing the Universal Genotyping resources recommended and provided by the Centers for Disease Control. Finally Allan has served as a TB consultant on the NetWellness® (<a href="http://netwellness.org/">http://netwellness.org/</a>) which is an online public health resource sponsored by Case, Ohio State, and University of Cincinnati. Allan's main interests are in public health service delivery in low resource settings as well as social epidemiology.</p> <p><i>Stein CM, Zalwango S, <b>Chiunda AB</b>, Millard C, Leontiev DV, Horvath AL, Cartier KC, Chervenak K, Boom WH, Elston RC, Mugerwa RD, Whalen CC, Iyengar SK. Linkage and association analysis of candidate genes for TB and TNFalpha cytokine expression: evidence for association with IFNGR1, IL-10, and TNF receptor 1genes. Hum Genet. 2007 Jul;121(6):663-73.</i></p> <p><i>Whalen CC, <b>Chiunda A</b>, Zalwango S, Nshuti L, Jones-Lopez E, Okwera A, Hirsch C, Peters P, Boom WH, Mugerwa RD. Immune correlates of acute Mycobacterium tuberculosis infection in household contacts in Kampala, Uganda. Am J Trop Med Hyg. 2006 Jul;75(1):55-61.</i></p> <p><i>Stein CM, Nshuti L, <b>Chiunda AB</b>, Boom WH, Elston RC, Mugerwa RD, Iyengar SK, Whalen CC. Evidence for a major gene influence on tumor necrosis factor-alpha expression in tuberculosis: path and segregation analysis. Hum Hered. 2005;60(2):109-18.</i></p>
<p>Austin Coley</p> 	<p>Austin is a MS student in Physiology working with Dr. Walter Boron; his research interest is in cell physiology. He first came to CWRU as an undergraduate researcher through the SPUR program (summer 2008) and completed a research project focused on exploring the metabolic role of the mitochondrial form of PEPCK. Austin earned a BS from North Carolina Central University 2009.</p>
<p>Steven DeJesus</p> 	<p>Steven is a first year PhD student in the Biomedical Sciences Training Program; he is currently rotating in several labs. Steven is a college graduate of University of Puerto Rico, Humacao.</p>



Name	Profile and publications
Harmonie Foster	Harmonie is an MS student in Applied Anatomy.
Julia Friedman	<p>Julia is a PhD student in the Molecular Virology Department.</p> <p><i>Pearson R, Kim YK, Hokello J, Lassen K, <b>Friedman J</b>, Tyagi M, Karn J. Epigenetic silencing of human immunodeficiency virus (HIV) transcription by formation of restrictive chromatin structures at the viral long terminal repeat drives the progressive entry of HIV into latency. J Virol. 2008 Dec;82(24):12291-303. PMID: PMC2593349.</i></p> <p><i>Kreisman LS, <b>Friedman JH</b>, Neaga A, Cobb BA. Structure and function relations with a T-cell-activating polysaccharide antigen using circular dichroism. Glycobiology. 2007 Jan;17(1):46-55. Epub 2006 Sep 21. Erratum in: Glycobiology. 2007 Oct;17(10):1030.</i></p>
Shamone Gaddy 	<p>Shamone is a PhD student in the Molecular Medicine program working in the lab of Jonathan Smith at the Cleveland Clinic. She first came to CWRU as a summer researcher through the HLBI program in 2005; her research focused on the activation of the Jak-State signaling pathway in failing hearts. Shamone earned her undergraduate degree from Youngstown State University.</p>
Tonibelle Gatbonton 	<p>Tonibelle is a PhD student in the Department of Pharmacology, working with Dr. Greg Tochtrop and Dr. John Letterio. Tonibelle's research project involves the identification of the molecular mechanism of 2-Cyano-3,12-Dioxoleana-1,9-Dien-28-Oic Acid (CDDO). Tonibelle graduated from Whitman College in Walla Walla, Washington, has published several postbaccalaureate papers, and is the recipient of the 2007 American Cancer Society Joseph S. Silber Student Fellowship. Tonibelle earned a National Institute of Health (NIH) predoctoral individual fellowship (F31) award to support her work.</p>
Alida Maria Gertz	Alida is an MD/MPH student in the Public Health Program. She carries out Public Health research under the guidance of Carol Bixen at the Cleveland Clinic Lerner College of Medicine.

Name	Profile and publications
<p data-bbox="87 163 289 193">Davina Gutierrez</p> 	<p data-bbox="550 222 1528 344">Davina is a PhD student in the Dept of Neurosciences working with Dr. Stefan Herlitze. Her project focuses on an activated proton pump that will be expressed in the serotonergic system to affect neuronal function. Davina graduated from Grand Valley State University, Grand Rapids, MI.</p> <p data-bbox="550 380 1528 501"><i>Li X, Gutierrez DV, Hanson MG, Han J, Mark MD, Chiel H, Hegemann P, Landmesser LT, Herlitze S. Fast noninvasive activation and inhibition of neural and network activity by vertebrate rhodopsin and green algae channelrhodopsin. Proc Natl Acad Sci, USA. 2005 Dec 6;102(49):17816-21.</i></p>
<p data-bbox="87 625 310 655">Yeritza Hernandez</p> 	<p data-bbox="550 800 1495 921">Yeritza is a PhD student in the Dept of Pathology working with Dr. Henry Boom. She is interested in TB research, immunology, and infectious diseases. Yeritza's project focuses on the T cell immunology during MTB infection and the vaccine implications. She is a college graduate of University of Puerto Rico.</p>
<p data-bbox="87 1129 220 1159">Vance Holt</p>	<p data-bbox="550 1129 1503 1159">Vance is a PhD student in the Dept of Biology working with Steven Haynesworth.</p>
<p data-bbox="87 1224 240 1253">Nana Korsah</p>	<p data-bbox="550 1224 1357 1253">Nana is an MS student in the Dept of Epidemiology and Biostatistics.</p>
<p data-bbox="87 1308 269 1337">José S. Lozada</p> 	<p data-bbox="550 1381 1528 1587">José is currently completing his MD/PhD in the Epidemiology and Biostatistics program. José completed his MS Epidemiology and Biostatistics in 2006. He focused on infectious diseases while working with Dr. Ajay Sethi to develop a method to estimate viral burden among HIV seropositive individuals using data from the ase/UH special immunology unit. This analysis may lead to better understanding of transmission rates of HIV populations using HAART therapy. Jose graduated from College of the Holy Cross, in Worcester, MA.</p>

Name	Profile and publications
<p>Heather Mason-Suares</p> 	<p>Heather is a PhD student in the department of Genetics. She works with Peter Harte on Polycomb Silencing. She graduated from Eckerd College with a BS in Biology and minor in Chemistry. Heather was also President and co-founder of the Biomedical Graduate Student Organization at the School of Medicine.</p>
<p>Marjorie Montanez-Wiscovich</p> 	<p>Marjorie is an MD - PhD student in Pharmacology with Dr. Ruth Keri. Her research focuses on evaluating the role of LMO4 in ErbB2-induced breast cancer. Marjorie was awarded the 2001 Luis A. Stefani Academic Excellency Award, the 2006 Biomedical Graduate Student Symposium Best Oral Presentation, and a Travel Award for the Endocrine Society Meeting in 2006. She also holds a Kirschstein NRSA Pre-doctoral Fellowship that was awarded in 2006. Marjorie is a college graduate of the University of Puerto Rico, Mayaguez.</p> <p><i>Landis MD, Seachrist DD, <b>Montanez-Wiscovich ME</b>, Danielpour D, Keri RA. Gene expression profiling of cancer progression reveals intrinsic regulation of transforming growth factor-beta signaling in ErbB2/Neu-induced tumors from transgenic mice. Oncogene. 2005 4;24(33):5173-90.</i></p>
<p>Luis Muñiz</p> 	<p>Luis is a PhD student in the Biomedical Sciences Training Program and is currently rotating in various labs. Luis was a Case PREP Scholar mentored by Dr. Peter Zimmerman and holds a BS from the University of Puerto Rico-Mayaguez.</p>
<p>Laurie Murphy</p>	<p>Laurie is a PhD student in the Dept of Epidemiology and Biostatistics.</p> <p><i>Grant RE, <b>Murphy LA</b>, Murphy JE. Expansion of the coordinator role in orthopaedic residency program management. Clin Orthop Relat Res. 2008 Mar;466(3):737-42.</i></p>

Name	Profile and publications
<p data-bbox="87 163 293 191">Obinna Ndubuizu</p> 	<p data-bbox="548 163 1528 373">Obinna is working toward his PhD with Dr. Joseph LaManna in Physiology and Biophysics as part of the MSTP program. He is from Bowie, Maryland and a graduate of the University of Maryland Baltimore County (UMBC) with a degree in biochemistry/molecular biology &amp; psychology. His thesis project will involve studying new treatment strategies for global ischemia &amp; reperfusion injury in the rat brain. He earned a fellowship from the American Heart Association to support his work.</p> <p data-bbox="548 407 1503 464"><b>Ndubuizu O, La Manna JC. Brain Tissue Oxygen Concentration Measurements. Antioxid Redox Signal. 2007 Aug;9(8):1207-19. Review.</b></p> <p data-bbox="548 497 1520 585"><b>Puchowicz MA, Emancipator DS, Xu K, Magness DL, Ndubuizu OI, Lust WD, LaManna JC. Adaptation to chronic hypoxia during diet-induced ketosis. Adv Exp Med Biol. 2005;566:51-7.</b></p> <p data-bbox="548 619 1520 676"><b>Boughter JD Jr, St John SJ, Noel DT, Ndubuizu O, Smith DV. A brief-access test for bitter taste in mice. Chem Senses. 2002 Feb;27(2):133-42.</b></p>
<p data-bbox="87 743 306 770">Ogechukwu Ndum</p> 	<p data-bbox="548 890 1458 978">Ogechukwu is an MSTP student in the Pathology PhD program working with Thomas Hamilton. She graduated with a BS from the University of Maryland, Baltimore County in 2005.</p>
<p data-bbox="87 1190 250 1218">Sam Ogwang</p>	<p data-bbox="548 1190 956 1218">Sam is a MS student in Pathology.</p>
<p data-bbox="87 1285 321 1312">Christopher Pulliam</p>	<p data-bbox="548 1285 1419 1312">Chris is a PhD student in Biomedical Engineering in the Robert Kirsch lab.</p>
<p data-bbox="87 1379 258 1407">Ashley Rettew</p> 	<p data-bbox="548 1495 1520 1554">Ashley is a PhD student in the Dept of Pathology working with Ed Greenfield. She graduated with a BS from Lafayette College in 2006.</p>

Name	Profile and publications
<p>Ángel Reyes-Rodríguez</p> 	<p>Ángel is a PhD student in the Molecular Virology program working with Dave McDonald. Ángel's current research focuses on the cell biology of HIV transmission. He was a Case PREP Scholar (07-08) in the Eric Arts lab, Dept of Molecular Virology and is a graduate of University of Puerto Rico, Rio Piedras.</p>
<p>Jason Robinson</p> 	<p>Jason is a second year PREP Scholar in the George Dubyak lab. His research focuses on seeing how different agonists activate the P2X7 receptor in murine T-cells. Jason earned a Biophysical Society Travel Award to present his research at the national conference in Spring 2009 and was recently recognized by Minority Access, Inc. as a Role Model Student Researcher. Jason began his college career at Cuyahoga Community College and earned a BA in Biology and Chemistry from Case Western Reserve University.</p>
<p>Alice Valentin-Torres</p> 	<p>Alice is a PhD student in the Dept of Molecular Biology and Microbiology working with Helene Bernstein. Her research focuses on HIV Immunology.</p> <p>Previous to her predoctoral training, Alice also spent a summer at Case working with Dr. Miguel Quinones at CCF. Alice graduated with a BS in Biology from University of Puerto Rico, Mayaguez in 2005.</p> <p><i>Luciano AA, Lederman MM, <b>Valentin-Torres A</b>, Bazdar DA, Sieg SF. Impaired induction of CD27 and CD28 predicts naive CD4 T cell proliferation defects in HIV disease. J Immunol. 2007 Sep 15;179(6):3543-9.</i></p>
<p>Derek Veith</p> 	<p>Derek is a PhD student in the Dept of Biochemistry working with Vivien Yee. He graduated with a BS from Edinboro University (Pennsylvania) in 2007.</p>

Name	Profile and publications
<p data-bbox="86 159 237 191">Alyssa Ward</p> 	<p data-bbox="548 275 1507 394">Alyssa is a PREP Scholar in the Molecular Biology and Microbiology Department, mentored by Susann Brady-Kalnay. Her current research focus is in cancer biology. Alyssa graduated with a BA in Molecular Biology from Claremont-McKenna College in 2009.</p>
<p data-bbox="86 573 337 604">Monique Washington</p>	<p data-bbox="548 562 1487 617">Monique is a PhD student in the Dept of Epidemiology and Biostatistics working with Elaine Borawski in public health.</p>
<p data-bbox="86 667 310 699">Lachelle D. Weeks</p>	<p data-bbox="548 657 1520 711">Lachelle is an MSTP student pursuing her PhD in Pathology/Cancer Biology in the Stan Gerson lab. She graduated with a BA from Wellesley College in 2006.</p>
<p data-bbox="86 762 298 793">Janeen Wilkerson</p>	<p data-bbox="548 762 1235 793">Janeen is an MS student in the Applied Anatomy program.</p>
<p data-bbox="86 846 342 877">E Chepchumba Yego</p> 	<p data-bbox="548 825 1533 1037">Chep is a PhD student in the Department of Physiology and Biophysics working with Susanne Mohr. Chep's current research is focused on interaction between high glucose-induced inflammation and pro-apoptotic glyceraldehydes-3-phosphate dehydrogenase (GAPDH) nuclear accumulation in retinal Müller cells, during the development of diabetic retinopathy. Chepchumba is a graduate of Geneva College, Pennsylvania. In 2007, Chep earned a National Institute of Health (NIH) Minority predoctoral individual fellowship (F31) award to support her work.</p> <p data-bbox="548 1068 1446 1188"><b>Yego EC, Vincent JA, Sarthy V, Busik JV, Mohr S. Differential regulation of high glucose-induced glyceraldehyde-3-phosphate dehydrogenase nuclear accumulation in Müller cells by IL-1beta and IL-6. Invest Ophthalmol Vis Sci. 2009 Apr;50(4):1920-8.</b></p>

## MGSO Postdocs 2009-2010

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## Profiles of Current MGSO Members – Postdocs

Name	Profile and publications
Warren Allain	<p>Neurosciences, Jerry Silver lab</p> <p><b>Allain WJ, Silver J.</b> Shedding light on restoring respiratory function after spinal cord injury. <i>Front Mol Neurosci.</i> 2009;2:18. PMID: PMC2773153.</p> <p><b>Allain WJ, Li X, Horn KP, Dhingra R, Dick TE, Herlitz S, Silver J.</b> Light-induced rescue of breathing after spinal cord injury. <i>J Neurosci.</i> 2008 Nov 12;28(46):11862-70. PMID: PMC2615537.</p>
Raif Musa Aziz	<p>Physiology &amp; Biophysics, Walter Boron lab</p> <p><b>Parker MD, Musa-Aziz R, Rojas JD, Choi I, Daly CM, Boron WF.</b> Characterization of human SLC4A10 as an electroneutral Na/HCO<sub>3</sub> cotransporter (NBCn2) with Cl<sup>-</sup> self-exchange activity. <i>J Biol Chem.</i> 2008 May 9;283(19):12777-88. PMID: PMC2442331.</p> <p><b>Musa-Aziz R, Jiang L, Chen LM, Behar KL, Boron WF.</b> Concentration-dependent effects on intracellular and surface pH of exposing <i>Xenopus</i> oocytes to solutions containing NH<sub>3</sub>/NH<sub>4</sub>(+). <i>J Membr Biol.</i> 2009 Mar;228(1):15-31.</p> <p><b>Musa-Aziz R, Chen LM, Pelletier MF, Boron WF.</b> Relative CO<sub>2</sub>/NH<sub>3</sub> selectivities of AQP1, AQP4, AQP5, AmtB, and RhAG. <i>Proc Natl Acad Sci U S A.</i> 2009 Mar 31;106(13):5406-11. PMID: PMC2664022.</p> <p><b>Parker MD, Musa-Aziz R, Boron WF.</b> The use of extracellular, ion-selective microelectrodes to study the function of heterologously expressed transporters in <i>Xenopus</i> oocytes. <i>Am J Physiol Cell Physiol.</i> 2009 May;296(5):C1243; author reply C1244.</p> <p><b>Amorim JB, Musa-Aziz R, Lessa LM, Malnic G, Fonteles MC.</b> Effect of uroguanylin on potassium and bicarbonate transport in rat renal tubules. <i>Can J Physiol Pharmacol.</i> 2006 Oct;84(10):1003-10.</p> <p><b>Endeward V, Musa-Aziz R, Cooper GJ, Chen LM, Pelletier MF, Virkki LV, Supuran CT, King LS, Boron WF, Gros G.</b> Evidence that aquaporin 1 is a major pathway for CO<sub>2</sub> transport across the human erythrocyte membrane. <i>FASEB J.</i> 2006 Oct;20(12):1974-81.</p>
James Michael Brindle	<p>Radiation Oncology UH, Douglas Einstein lab</p> <p><b>Kunos C, Chen W, DeBernardo R, Waggoner S, Brindle J, Zhang Y, Williams J, Einstein D.</b> Stereotactic body radiosurgery for pelvic relapse of gynecologic malignancies. <i>Technol Cancer Res Treat.</i> 2009 Oct;8(5):393-400.</p> <p><b>Kunos C, von Gruenigen V, Waggoner S, Brindle J, Zhang Y, Myers B, Funkhouser G, Wessels B, Einstein D.</b> Cyberknife radiosurgery for squamous cell carcinoma of vulva after prior pelvic radiation therapy. <i>Technol Cancer Res Treat.</i> 2008 Oct;7(5):375-80.</p>

Name	Profile and publications
Sandra Craig	<p>Pharmacology, Irene Nga Wing Lee lab</p> <p><i>Burden-Gulley SM, Gates TJ, <b>Craig SE</b>, Lou SF, Oblander SA, Howell S, Gupta M, Brady-Kalnay SM. Novel peptide mimetic small molecules of the HAV motif in N-cadherin inhibit N-cadherin-mediated neurite outgrowth and cell adhesion. Peptides. 2009 Dec;30(12):2380-7.</i></p>
Maureen Drakes	<p>Pediatrics UH, Tom Blanchard lab</p> <p><i><b>Drakes M</b>, Blanchard T, Czinn S. Bacterial probiotic modulation of dendritic cells. Infect Immun. 2004 Jun;72(6):3299-309.</i></p> <p><i>Blanchard TG, <b>Drakes ML</b>, Czinn SJ. Helicobacter infection: pathogenesis. Curr Opin Gastroenterol. 2004 Jan;20(1):10-5.</i></p> <p><i>Matsumoto Y, Blanchard TG, <b>Drakes ML</b>, Basu M, Redline RW, Levine AD, Czinn SJ. Eradication of Helicobacter pylori and resolution of gastritis in the gastric mucosa of IL-10-deficient mice. Helicobacter. 2005 Oct;10(5):407-15.</i></p> <p><i><b>Drakes ML</b>, Blanchard TG, Czinn SJ. Colon lamina propria dendritic cells induce a proinflammatory cytokine response in lamina propria T cells in the SCID mouse model of colitis. J Leukoc Biol. 2005 Dec;78(6):1291-300.</i></p> <p><i><b>Drakes ML</b>, Czinn SJ, Blanchard TG. Regulation of murine dendritic cell immune responses by Helicobacter felis antigen. Infect Immun. 2006 Aug;74(8):4624-33.</i></p>
Kenneth Henry	<p>Kenneth graduated with his PhD in Genetics in August of 2003. He completed his predoctoral training with Sandra K. Lemmon, PhD. Kenneth is currently a senior research associate in Infectious Diseases with Eric Arts.</p> <p><i><b>Henry KR</b>, Weber J, Quinones-Mateu ME, Arts EJ. The impact of viral and host elements on HIV fitness and disease progression. Curr HIV/AIDS Rep. 2007 Feb;4(1):36-41. Review.</i></p> <p><i>Chang JS, <b>Henry K</b>, Geli MI, Lemmon SK. Cortical recruitment and nuclear-cytoplasmic shuttling of Scd5p, a protein phosphatase-1-targeting protein involved in actin organization and endocytosis. Mol Biol Cell. 2006 Jan;17(1):251-62.</i></p> <p><i><b>Henry KR</b>, D'Hondt K, Chang JS, Nix DA, Cope MJ, Chan CS, Drubin DG, Lemmon SK. The actin-regulating kinase Prk1p negatively regulates Scd5p, a suppressor of clathrin deficiency, in actin organization and endocytosis. Curr Biol. 2003 Sep 2;13(17):1564-9.</i></p>
Mo Hunsen	Pediatrics UH (currently no publications)

Name	Profile and publications
Alfred Isaac	<p>Pathology, Neena Singh lab</p> <p><i>Singh A, <b>Isaac AO</b>, Luo X, Mohan ML, Cohen ML, Chen F, Kong Q, Bartz J, Singh N. Abnormal brain iron homeostasis in human and animal prion disorders. PLoS Pathog. 2009 Mar;5(3):e1000336. PMID: PMC2652663.</i></p> <p><i>Singh A, Mohan ML, <b>Isaac AO</b>, Luo X, Petrak J, Vyoral D, Singh N. Prion protein modulates cellular iron uptake: a novel function with implications for prion disease pathogenesis. PLoS One. 2009;4(2):e4468. Epub 2009 Feb 12. Erratum in: PLoS ONE. 2009;4(2). doi:10.1371/annotation/194f4e44-20f0-48eb-bbe9-14e21d18909b. PMID: PMC2637434.</i></p>
Oyebisi Jegede	Molecular Biology & Microbio (currently no publications)
Emhonta Johnson	<p>Pharmacology, Ruth Keri lab</p> <p><i>Milliken EL, Lozada KL, <b>Johnson E</b>, Landis MD, Seachrist DD, Whitten I, Sutton AL, Abdul-Karim FW, Keri RA. Ovarian hyperstimulation induces centrosome amplification and aneuploid mammary tumors independently of alterations in p53 in a transgenic mouse model of breast cancer. Oncogene. 2008 Mar 13;27(12):1759-66. PMID: PMC2464908.</i></p>
David Kaawa-Mafigiri	<p>Epidemiology &amp; Biostats</p> <p><i>McGrath JW, George K, Svilar G, Ihler E, <b>Mafigiri D</b>, Kabugo M, Mugisha E. Knowledge about vaccine trials and willingness to participate in an HIV/AIDS vaccine study in the Ugandan military. J Acquir Immune Defic Syndr. 2001 Aug 1;27(4):381-8.</i></p> <p><i>McGrath JW, <b>Mafigiri D</b>, Kamyra M, George K, Senwewo R, Svilar G, Kabugo M, Mugisha E. Developing AIDS vaccine trials educational programs in Uganda. J Acquir Immune Defic Syndr. 2001 Feb 1;26(2):176-81.</i></p>
Uri R Mbonye	Molecular Biology & Microbio (currently no publications)
Christopher M Miller	<p>Pulmonary &amp; Critical Care UH, Kingman Strohl lab</p> <p><i>Papp KK, <b>Miller CM</b>, Strohl KP. Graduate medical training, learning, relationships, and sleep loss. Sleep Med Rev. 2006 Oct;10(5):339-45.</i></p> <p><i><b>Miller CM</b>, Khanna A, Strohl KP. Assessment and policy for commercial driver license referrals. J Clin Sleep Med. 2007 Jun 15;3(4):417-23.</i></p>
Elwin Alex Morgan	Pharmacology (currently no publications)
Kayode O Olowe	<p>Gastroenterology UH</p> <p><i>Kumon RE, <b>Olowe K</b>, Faulx AL, Farooq FT, Chen VK, Zhou Y, Wong RC, Isenberg GA, Sivak MV, Chak A, Deng CX. EUS spectrum analysis for in vivo characterization of pancreatic and lymph node tissue: a pilot study. Gastrointest Endosc. 2007 Dec;66(6):1096-106.</i></p>

Name	Profile and publications
Norbert Oduor Owino	Radiology UH (currently no publications)
Jose-Andres C Portillo	<p>Ophthalmology UH, Carlos Subauste lab</p> <p><b>Portillo JA, Okenka G, Kern TS, Subauste CS.</b> Identification of primary retinal cells and ex vivo detection of proinflammatory molecules using flow cytometry. <i>Mol Vis.</i> 2009 Jul 17;15:1383-9. PubMed PMID: 19626134; PMCID:PMC2713733.</p> <p><b>Portillo JA, Van Grol J, Zheng L, Okenka G, Gentil K, Garland A, Carlson EC, Kern TS, Subauste CS.</b> CD40 mediates retinal inflammation and neurovascular degeneration. <i>J Immunol.</i> 2008 Dec 15;181(12):8719-26.</p>
Kaustubha R Qanungo	<p>Biochemistry, CCF</p> <p><b>Qanungo KR, Shaji D, Mathur M, Banerjee AK.</b> Two RNA polymerase complexes from vesicular stomatitis virus-infected cells that carry out transcription and replication of genome RNA. <i>Proc Natl Acad Sci U S A.</i> 2004 Apr 20;101(16):5952-7.</p>
Suparna Qanungo	<p>Pharmacology, Haldar lab</p> <p><b>Basu A, Das M, Qanungo S, Fan XJ, DuBois G, Haldar S.</b> Proteasomal degradation of human peptidyl prolyl isomerase pin1-pointing phospho Bcl2 toward dephosphorylation. <i>Neoplasia.</i> 2002 May-Jun;4(3):218-27.</p> <p><b>Qanungo S, Basu A, Das M, Haldar S.</b> 2-Methoxyestradiol induces mitochondria dependent apoptotic signaling in pancreatic cancer cells. <i>Oncogene.</i> 2002 Jun 13;21(26):4149-57.</p> <p><b>Qanungo S, Haldar S, Basu A.</b> Restoration of silenced Peutz-Jeghers syndrome gene, LKB1, induces apoptosis in pancreatic carcinoma cells. <i>Neoplasia.</i> 2003 Jul-Aug;5(4):367-74.</p> <p><b>Qanungo S, Wang M, Nieminen AL.</b> N-Acetyl-L-cysteine enhances apoptosis through inhibition of nuclear factor-kappaB in hypoxic murine embryonic fibroblasts. <i>J Biol Chem.</i> 2004 Nov 26;279(48):50455-64.</p> <p><b>Qanungo S, Das M, Haldar S, Basu A.</b> Epigallocatechin-3-gallate induces mitochondrial membrane depolarization and caspase-dependent apoptosis in pancreatic cancer cells. <i>Carcinogenesis.</i> 2005 May;26(5):958-67.</p> <p><b>Wang M, Qanungo S, Crow MT, Watanabe M, Nieminen AL.</b> Apoptosis repressor with caspase recruitment domain (ARC) is expressed in cancer cells and localizes to nuclei. <i>FEBS Lett.</i> 2005 Apr 25;579(11):2411-5.</p> <p><b>Nieminen AL, Qanungo S, Schneider EA, Jiang BH, Agani FH.</b> Mdm2 and HIF-1alpha interaction in tumor cells during hypoxia. <i>J Cell Physiol.</i> 2005 Aug;204(2):364-9.</p> <p><b>Qanungo S, Starke DW, Pai HV, Mieyal JJ, Nieminen AL.</b> Glutathione supplementation potentiates hypoxic apoptosis by S-glutathionylation of p65-NFkappaB. <i>J Biol Chem.</i> 2007 Jun 22;282(25):18427-36.</p>

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<p>Angelina Ramirez-Navarro</p>	<p>Research Office MHMC, Diana Kunze lab</p> <p><i>Kline DD, Buniel MC, Glazebrook P, Peng YJ, <b>Ramirez-Navarro A</b>, Prabhakar NR, Kunze DL. Kv1.1 deletion augments the afferent hypoxic chemosensory pathway and respiration. J Neurosci. 2005 Mar 30;25(13):3389-99.</i></p> <p><i>Kunze DL, Kline D, <b>Ramirez-Navarro A</b>. Hypertension in sleep apnea: the role of the sympathetic pathway. Cleve Clin J Med. 2007 Feb;74 Suppl 1:S34-6. Review.</i></p> <p><i>Kline DD, <b>Ramirez-Navarro A</b>, Kunze DL. Adaptive depression in synaptic transmission in the nucleus of the solitary tract after in vivo chronic intermittent hypoxia: evidence for homeostatic plasticity. J Neurosci. 2007 Apr 25;27(17):4663-73.</i></p>
<p>Myriam E Rodriguez</p>	<p>Radiation Oncology UH</p> <p><i>Kim J, <b>Rodriguez ME</b>, Guo M, Kenney ME, Oleinick NL, Anderson VE. Oxidative modification of cytochrome c by singlet oxygen. Free Radic Biol Med. 2008 May 1;44(9):1700-11.</i></p> <p><i><b>Rodriguez ME</b>, Azizuddin K, Zhang P, Chiu SM, Lam M, Kenney ME, Burda C, Oleinick NL. Targeting of mitochondria by 10-N-alkyl acridine orange analogues: Role of alkyl chain length in determining cellular uptake and localization. Mitochondrion. 2008 Apr 25. [Epub ahead of print]</i></p>
<p>Vernon Ruffin</p> 	<p>Vernon is a Postdoctoral Fellow in Dr. Walter Boron's lab in the Department of Physiology and Biophysics. His research focus is in neurophysiology—specifically, pH regulation and respiration. Vernon has published in the Journal of Neuroscience and earned an NRSA Fellowship to support his research. He holds a BS from Virginia Union University and earned his PhD from Howard University in 2006.</p> <p>(currently no publications)</p>

Name	Profile and publications
Aicha Saadane	<p>Pediatrics UH, Berger lab</p> <p><i>Chmiel JF, Konstan MW, <b>Saadane A</b>, Krenicky JE, Lester Kirchner H, Berger M. Prolonged inflammatory response to acute Pseudomonas challenge in interleukin-10 knockout mice. Am J Respir Crit Care Med. 2002 Apr 15;165(8):1176-81.</i></p> <p><b>Saadane A</b>, Soltys J, Berger M. <i>Role of IL-10 deficiency in excessive nuclear factor-kappaB activation and lung inflammation in cystic fibrosis transmembrane conductance regulator knockout mice. J Allergy Clin Immunol. 2005 Feb;115(2):405-11.</i></p> <p><b>Saadane A</b>, Soltys J, Berger M. <i>Acute Pseudomonas challenge in cystic fibrosis mice causes prolonged nuclear factor-kappa B activation, cytokine secretion, and persistent lung inflammation. J Allergy Clin Immunol. 2006 May;117(5):1163-9.</i></p> <p><b>Saadane A</b>, Masters S, DiDonato J, Li J, Berger M. <i>Parthenolide inhibits I kappa B kinase, NF-kappa B activation, and inflammatory response in cystic fibrosis cells and mice. Am J Respir Cell Mol Biol. 2007 Jun;36(6):728-36.</i></p>
Diana Santo Domingo	<p>Dermatology UH</p> <p><b>Domingo DS</b>, Baron ED. <i>Melanoma and nonmelanoma skin cancers and the immune system. Adv Exp Med Biol. 2008;624:187-202. Review.</i></p> <p>Miller JD, Kirkland EB, <b>Domingo DS</b>, Scull H, Jekutis B, Dallas M, Cooper KD, Baron ED. Review of extracorporeal photopheresis in early-stage (IA, IB, and IIA) cutaneous T-cell lymphoma. <i>Photodermatol Photoimmunol Photomed. 2007 Oct;23(5):163-71. Review.</i></p>
Christopher S Smith	Infectious Disease UH (currently no publications)
Monica E Torres-Caban	<p>Epidemiology &amp; Biostatistics, Elston lab</p> <p><i>Wang T, Lu Q, <b>Torres-Caban M</b>, Elston RC. Two-stage analysis strategy for identifying the IgM quantitative trait locus. BMC Proc. 2007;1 Suppl 1:S139.</i></p> <p><i>Xing C, <b>Torres-Caban M</b>, Wang T, Lu Q, Xing G, Elston RC. Linkage studies of catechol-O-methyltransferase (COMT) and dopamine-beta-hydroxylase (DBH) cDNA expression levels. BMC Proc. 2007;1 Suppl 1:S95.</i></p>
Alma G Wilson	<p>Pediatrics UH</p> <p><i>Sheth VR, van Heeckeren RC, <b>Wilson AG</b>, van Heeckeren AM, Pagel MD. Monitoring infection and inflammation in murine models of cystic fibrosis with magnetic resonance imaging. J Magn Reson Imaging. 2008 Aug;28(2):527-32. PMCID: PMC2538376.</i></p>

Name	Profile and publications
Laila Eugenia Woc-Colburn	Infectious Disease UH, Boom Lab  <b>Woc-Colburn L, Bobak DA. The expanding spectrum of disease due to salmonella: an international perspective. Curr Infect Dis Rep. 2009 Mar;11(2):120-4.</b>

## Science Meetings

### Annual Biomedical Research Conference for Minority Students – Fall Semester

ABRCMS is the largest, professional conference for biomedical students attracting approximately 2,600 individuals, including 1,650 undergraduate students, 280 graduate students, 30 postdoctoral scientists and 750 faculty and administrators. During the three-day conference, 1,000 students participate in poster and oral presentations in nine sub disciplines in the biomedical and behavioral sciences. This conference is sponsored by the National Institute of General Medical Sciences (NIGMS), Division of Minority Opportunities in Research Program (MORE) and managed by the American Society for Microbiology (ASM). Registration website: <http://www.abrcms.org/index.html>

### Society for Advancement of Chicanos and Native Americans in Science National Conference –Fall Semester

SACNAS provides unparalleled conference activities for students, postdocs, educators, administrators, and researchers in all disciplines of science, mathematics, and engineering. <http://www.sacnas.org/confnew/confclient/>

## Funding Opportunities for Graduate Students

An outstanding searchable site to look up grants available is <http://www.grantsnet.org>. One can enter the standing of the student as well as the discipline of study to learn about potential funding sources.

### **Some sources of graduate student funding include:**

The National Institutes of Health [Ruth L. Kirschstein National Research Service Awards \(NRSA\)](#) Individual Predoctoral Awards (F30 and F31 grants) are designed to insure that highly trained scientists will be available to carry out the nation's biomedical research agenda.

[http://grants.nih.gov/training/F\\_files\\_nrsa.htm](http://grants.nih.gov/training/F_files_nrsa.htm)

- American Heart Association Predoctoral Fellowships <http://www.americanheart.org/presenter.jhtml?identifier=2457#Predoc>
- National Defense Science and Engineering Graduate Fellowships <http://www.asee.org/fellowships/ndseg/index.cfm>
- NSF Fellowship - Graduate Research Fellowship (GRF) [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=6201](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201)
- NIH Individual MD/PhD Fellowships (F30) <http://grants.nih.gov/grants/guide/pa-files/PA-05-151.html>
- NIH Individual Predoctoral Fellowships (F31) to Promote Diversity in Health-Related Research <http://grants2.nih.gov/grants/guide/pa-files/PA-07-106.html>
- American Australian Fellowships <http://www.americanaustralian.org/Educational/usa-australia.php>
- Grass Fellowships <http://www.grassfoundation.org/fellowships/index.html>
- Harold M Weintraub Graduate Student Award - <http://www.fhrc.org/science/basic/weintraub/>
- Howard Hughes Medical Institute Predoctoral Fellowships <http://www.hhmi.org/resources/students.html>

- IBM PhD Fellowship program <http://www-304.ibm.com/jct09002c/university/scholars/ur/awards/fellowship/>
- Integrative Graduate Education and Research Training Program (IGERT) <http://www.igert.org/>
- Myasthenia Gravis Foundation of America Student Fellowship [http://www.myasthenia.org/hp\\_fellowships.cfm](http://www.myasthenia.org/hp_fellowships.cfm)

### **Diversity grants**

A variety of grants and fellowships are available to underrepresented minority students in biomedical science, for summer programs, dissertation research, and travel to meetings. Please visit the related sites for several good lists, or explore those listed below. You may also want to review the [Minority Supplement to NIH Grants](#).

- NIH Predoctoral Fellowship Awards for Minority Students <http://grants.nih.gov/grants/guide/pa-files/PA-00-069.html>
- FASEB Summer Research Conference Travel Award - <http://marc.faseb.org/pages/page2a.htm>
- APA Minority Fellowship Program <http://www.apa.org/mfp/>
- American Indian Science and Engineering Society: A.T. Anderson Memorial Scholarship <http://www.aises.org/highered/scholarships/>
- American Physiological Society / Porter Physiology Minority Fellowships - <http://www.the-aps.org/awards/student.htm>
- American Society for Microbiology Robert D. Watkins Minority Graduate Fellowship - <http://www.asm.org/Education/index.asp?bid=6278>
- Ford Foundation Predoctoral and Dissertation Fellowships for Minorities <http://www7.nationalacademies.org/fellowships/>
- National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) Inc. [http://was.nd.edu/gem/gemwebapp/public/gem\\_01\\_100.htm](http://was.nd.edu/gem/gemwebapp/public/gem_01_100.htm)
- Smithsonian Institution Minority Awards Program <http://www.si.edu/ofg/Applications/MIP/MIPapp.htm>
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Fellowship list [http://www.sacnas.org/webadindex.cfm?webadcategory\\_id=5](http://www.sacnas.org/webadindex.cfm?webadcategory_id=5)
- Society for Neuroscience fellowships <http://www.sfn.org/index.cfm?pagename=FellowshipAndAwards&section=professionalDevelopment>
- UNCF / Merck Science Initiative <http://www.uncf.org/merck/>

## **Past Activities**

2008-2009:

April 30<sup>th</sup>, 2009: Faculty Speaker – Roberto Fernández Galán, Ph.D., Assistant Professor of Neurosciences, CWRU. Dr. Galán is a Mount Sinai Research Scholar and an Alfred P. Sloan Research Fellow; his research focus biophysical mechanisms underlying neuronal synchronization and the formation of spatiotemporal patterns of neural activity.

March 16<sup>th</sup>, 2009: Debt Management Workshop presented by Jay Seaton, volunteer at Cleveland Saves and Regional Vice President, Consumer CreditCounseling Services of NE Ohio

February 26<sup>th</sup>, 2009: Faculty Speaker – Emmitt Jolly, PhD, Assistant Professor of Biology, CWRU. Dr. Jolly obtained his BS in Biology at Tuskegee University, Tuskegee Inst., AL. He continued on to earn his MS and PhD in Biochemistry and Molecular Biology from the University of California, San Francisco, where he also did a Postdoctoral fellowship in Parasitology. During his career he has earned many civic and academic awards. His current research focus is to identify key regulators of schistosome gene expression and their targets and determine the mechanism of transcriptional control in response to developmental and environmental cues.

January 22<sup>nd</sup>, 2009: Faculty Speaker – Brian Cobb, PhD, Assistant Professor of Pathology, CWRU. Dr. Cobb earned his PhD from Washington University, St. Louis. His Postdoctoral Fellow was spent as a dual appointment in the Department of Microbiology and Molecular Genetics and the Department of Medicine at Harvard Medical School (2001-2004). His current research at CWRU focuses on cellular immunology (antigen presenting cell and T cell biology), animal models, molecular biology, and biochemistry (structure/function and macromolecular interactions).

December 9<sup>th</sup>, 2008: HOLIDAY PARTY

November 20<sup>th</sup>, 2008: Planning Meeting for Spring 2009

October 23<sup>rd</sup>, 2008: Effective PowerPoint Presentations Overview presented by Chep Yego, PhD Candidate

October 19<sup>th</sup>, 2008:– MGSO Graduate Students Retreat, 8:30am – 3pm. Keynote Speaker: Miguel E. Quiñones-Mateu, PhD, Senior Director of HIV program for Diagnostic HYBRIDS. Speaker: Payal Gandhi, PhD, Scientific Writer, Pro Ed Communications. Student presentations and round table discussion held.

September 25<sup>th</sup>, 2008: CV workshop presented by Kim Ordnoff-Paik, CWRU Career Center

2007 - 2008:

June 16<sup>th</sup>, 2008: End of Year Party: Winking Lizard in Lakewood, OH

May 9<sup>th</sup>, 2008: Postdoctoral fellow presentation- How to find a postdoctoral fellowship.

April 25<sup>th</sup>, 2008: Alumni speaker – Craig Cameron, PhD, Paul Berg Professor of Biochemistry and Molecular Biology Pennsylvania State University (1993 PhD Graduate of Biochemistry, CWRU)

March 14<sup>th</sup>, 2008: Writing a graduate student fellowship - Presentation and discussion by students who have previously been awarded fellowships

January 11<sup>th</sup>, 2008: Faculty Speaker - Carlos Crespo, Ph.D, Assistant Professor, Chemistry Department, Case Western Reserve University.

December 18<sup>th</sup>, 2007: HOLIDAY PARTY

November 16<sup>th</sup>, 2007: Faculty Speaker – Stephen Haynesworth, Ph.D, Associate Professor of Biology, Associate Professor of General Medical Sciences (Oncology), Assistant Professor of Orthopedics, Associate Dean, College of Arts and Sciences.

October 12<sup>th</sup>, 2007: Welcome to MGSO – Opportunity for students, MGSO associated faculty, and MGSO advisors to network. Officers shared the plans for the upcoming year with members



Holiday Party, December 2008

2006 - 2007: MGSO members held informal breakfast meetings with two minority investigators, hosted by Pharmacology:  
Dr. Dale Abel, MD, PhD, Professor of Medicine/Biochemistry, University of Utah  
Dr. Trevor Archer, PhD, Chief, NIEHS Laboratory of Molecular Carcinogenesis

SEO luncheon – MGSO students spoke of their experiences in Biomedical sciences to Case Scientific Enrichment and Opportunity Program participants.

2005: Edu Suarez, PhD—visiting faculty from UPR Ponce, hosted by Genetics.

2004: Richard Goldsby, PhD, Professor of Biology, Amherst College - MGSO invited and hosted Dr. Goldsby's visit to CWRU.

2004- present: Graduate students have volunteered countless hours as tutors and mentors for area grade (K-12) school students through: youth opportunities unlimited (YO!), the Saturday Tutoring Program at the Church of the Covenant/ John Hay High School/ Case Partnership, The Boys and Girls Club of Cleveland, the Cleveland Scholarships Program, Shaw High School College Bound Program, East High School, Horizon Science Academy and other local programs and organizations.

**Photo Album:**

MGSO students at breakfast with Dr. Dale Abel, April 2007



Reginald Gray, 2006, Harding Lab



Dolly Padovani-Claudio, MSTP student, and daughter, 2007



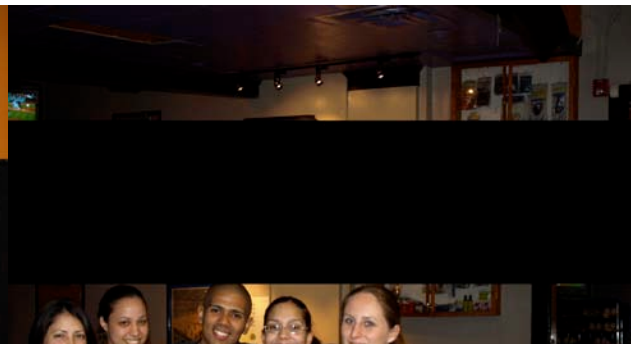
Lakisha Miller and Harriet Babikako, PhD students, EpiBio, 2007



Alice Valentin-Torres, Lederman lab, 2006



Carlos De Leon, Angel Reyes-Rodriguez, Andrea Ramos-Serrano; PREP Scholars 2008



End of Year Party – May 2008  
Andrea, Yertiza, Xavier, Marjorie, Heather