

**STUDENT RESEARCH INTERNSHIPS
2007-2008**

**OPPORTUNITIES
FUNDING
CONTACT INFORMATION**

PREPARED

BY

Dr. Danielle Desroches

Professor

BIOLOGY DEPARTMENT

PASS-MAPS

Coordinator

BIOLOGY DEPARTMENT- WPUNJ

Note: All faculty listed below may be reached through the University email system- Additional information may be found on Faculty Web site.

FACULTY	RESEARCH TOPIC	EXTENSION	COMMENTS
Benno, Robert	Neurobehavioral genetics. Gene by environment interactions in the mouse as a model system for autism. Stress and Depression	3440	Current students: Amanda Liggett Hannah Ampofo, Czina Cortez, Joyce Lau
Desroches, Danielle	Alcohol and birth defects Anatomy and Physiology Lab Manuals development	2329	Not currently active in the lab
Gilley, David	Cooperation and conflict within social insect colonies	2549	Current students: potential 2-3
Gould, Georgianne	Effects of Pesticide or Pharmaceutical Exposures on Zebrafish Biogenic Amine System Development of behavioral models of Parkinson's And autism	2480	Currently setting lab on Campus Will involve students, up to 3.
Leonard, Claire	Medical Internships Coordinator (M.E , PT etc..)		
Martin, Kendall	Microbial ecology, plant disease biocontrol, fecal source Tracking, ectomycorrhizas in forest ecology.	3452	No student yet, but has funds for wages etc.
Menon, Jaishri	Oxidative stress and tissue remodeling during anular Metamorphosis	2795	Current students: Juan Carlos-Sorto , Anna Yap, Kartnik Gopal
Onaivi, Emmanuel	The molecular basis of drug addiction	3453	Current students: O. Carpio, D. Macharia,

FACULTY	RESEARCH TOPIC	EXTENSION	A. Alvarez, Hock, E. G. Hirebikova, J. Hung COMMENTS
Patnaik, Pradeep	Looking at interplay of transceip and DNA Replication in the parasitic protozoa Trypasonoma brucei.	3454	Current students: Mark Sauchelli and Michael Paz Interested in additional students (motivated)
Peek, Michael	Long and short-tem tradeoffs to sand burial in Ammophila Breviligulata, American Beachgrass	2247	Current students: Chad Socha and Avik Desai
Risley, Lance	1. Studying Bat ecology- involving long nights in forest 2. General Internships Coordinator (non Medical)	3438	mostly in summer nights: Current student:: Marilyn Kitchell
Sebetich, Michael	Water quality in urban streams	2792	2 students working; from grant with Dr.Pardi
Slaymaker, David	1.Studying the role of an EFH gene on Arabidopsis under environmental stress 2. Determining whether EFH and GRP genes are necessary for plant defense in soybean	2439	Current students: Luisa Posadas, Nicole Fantauzzi Phu Dinh, Chris DeNude
Vail, Stephen	1.Ecology of tick-borne disease 2.Behavior and ecology of ants 3.Mathemathical biology	2487	No internship opportunity at this time
Waldburger, Carey	Examination of the function of a signal transducing system required for bacterial pathogenesis	2486	Current students: Dawn Stager Chris Mallery, Polliana Olivera and Shail Kabrawala

ENVIRONMENTAL SCIENCES DEPARTMENT- WPUNJ

FACULTY	RESEARCH TOPIC	EXTENSION	COMMENTS
Becker, Marty	1. fossil chondrichthyans and osteichthyans from The upper Cretaceous of North America 2. NJ Zeolite Mineralogy 3. Earth Science Education	3409	Current Students: Justin Linteris and Maleyna Sosna - Has contacts with CUNY, Temple, Adelphi for potential internships
Pardi, Richard	Water Quality in Urban Streams Several projects for NJ dept. of Environmental Protection Off campus opportunities : http://euphrates.wpunj.edu/faculty/pardir/ More information available	2695	Mostly outdoor work; some lab work Funds available for hourly pay: Grant \$

CHEMISTRY AND PHYSICS DEPARTMENT- WPUNJ

FACULTY	RESEARCH TOPIC	EXTENSION	COMMENTS
Gerardi, Gary	Spectroscopic and electrical characterization of fundamental physical processes in semiconductor materials.	X3463	some contact with local companies

Sharma, Gurdial Biochemical & Clinical Applications of 2796
Marine proteins
Drugs from the Sea
Design & Synthesis of new Drug
Biochemical Potentials of Organic Thiocyanates

ON CAMPUS opportunities

BIOLOGY RESEARCH INTERNSHIPS WITH A FACULTY LISTED ABOVE

1. Contact faculty
2. Visit faculty website for more information
3. Inquire about possible Independent Study, Summer Internships
4. **Funding: could be**
 - a. Faculty grant
 - b. Center For Research (CFR) : application and proposal necessary- Spring Deadlines for summer
 - c. Biology dept funds, especially if Independent Study –Deadlines for applications for Fall or Spring semesters
 - d. WPU Student Undergraduate Research Program (SURP)- Deadlines: March 15 for Summer/Fall; October 15 for Spring Semester
 - e. PASS funding, for summer only when available

ENVIRONMENTAL SCIENCES , CHEMISTRY INTERNSHIPS WITH FACULTY LISTED ABOVE

1. Follow steps listed for Biology
2. Contact Faculty and Chair of department
3. Visit Faculty web site for more information

General guidelines for ALL internships

1. Student may find the opportunity either through Dr. Risley, Dr. Leonard, Dr. Desroches or other faculty
2. OR, student find opportunities through a WEB SITE or OTHER SOURCES
3. If not from the Faculty at WPU, it is up to the student to collect all necessary information related to the potential internship (location , sponsor, duration, cost, travel, contact persons etc...)
4. Next , student bring all INFORMATION to Dr. Risley or Dr. Leonard or Dr. Desroches as appropriate.
5. Then, a funding source may be available .
6. Applications may be necessary and other paper work needed... for example application to the SURP as described below. Read the following suggestions carefully...

OFF CAMPUS

OFF CAMPUS INTERNSHIPS- Sponsored by the Biology Department at WPUNJ

1. Contact **Dr. Risley** : look through the folder or WPUNJ-BIOLOGY website of potential internships
2. or Contact Faculty at WP- Some have contacts with outside sources
3. Potential Funding:
 - a. Biology Department
 - b. PASS , for summer only, when available
 - c. WPU- Student Undergraduate Research Program (SURP) Application needed. Deadline: March 15 for summer and Fall, or October 15 for Spring semester.

OTHER SOURCES: NIH, NSF—go to their WEB SITES—Application and proposals would be required and a Faculty Sponsor... For example: Talk to Drs. Pradeep Patnaik and J. Menon at WP... Several of his student have been successful in getting funds from these sources.

Most recently: Student J. Claros , mentored by Dr. J . Menon: NIH grant

Other WEB SITES:

International Service Learning or ISL- Provides Health service/learning activities as part of international programs.

http://www.islonline.org/pages/how_to_apply.html

See : MAPS web site Below.

MEDICAL INTERNSHIPS

1. Medical Examiner's Office

- a. Contact an M.E. office in N.J. example, Morris County
- b. Inquire about internships for the summer at that office
- c. Contact Dr. Leonard or Dr. Risley to verify and straighten out any legal responsibility for the student such as vaccinations, insurance etc
- d. Funding: could possibly be coming from the Biology Department (Dr.Risley) or from PASS funding (Dr. Desroches) or other sources if available

2. Physical Therapy, Medical Technology, Physician "Shadowing"

- a. Follow same steps as illustrated for M.E. office
- b. Contact Dr. Leonard and Dr. Desroches

FROM THE MAPS WEBSITE

co-op internship opptys:

<http://www.rit.edu/~gtfsbi/Symp/mcoop.htm>

minority resources:

<http://www.sunysb.edu/healthed/minority.html>

Underrepresented and Minority Applicants to Professional Schools: Summer Opportunities, Application Information and More:

<http://www.nd.edu/~preprof/minority.html>

Minority Scholarships, Fellowships and Postdoctoral Awards in Medicine, Public Health and Related Fields--separated by organization as well as color coded for education level required:

<http://scholarships.fatomei.com/health.html>

NASA Internships

Undergraduate Student Research Program NASA -- USRP

New this year – Spring Session

NASA-USRP offers undergraduate students across the United States internships at NASA centers under the supervision of technical mentors. This prestigious program seeks rising sophomore, junior and senior students in the disciplines of engineering, math, computer science and life/physical sciences. Students may apply for 10-week summer session and 15-week spring or fall session. NASA-USRP provides students with hands-on, real-life research experiences that challenge, inspire and bring practical application to complement the students' academic education. Stipends are \$6,000 for the summer session and \$9,000 for fall and spring, plus a round-trip travel allowance. Application deadlines are:

Summer	January 31, 2008
Fall	February 29, 2008

Visit <http://www.education.nasa.gov/usrp> for more details.

A SAMPLE OF SUMMER INTERNS- 2007

Medical Internships/Shadowing

Keesha Frederic- Hackensack University Medical Center , Careers in Medicine Program

James Van Gorp- with Dr. Enas Tuppo, specialized in Internal Medicine in Hawthorne

Christopher Perrone , Hackensack University Medical Center, Department of Physical Medicine & Rehabilitation

Research Internships:

Department of Biology, WPUNU

With Dr. Robert Benno

Andre Robinson

Joyce Lau

Czrina Cortez

Hanna Ampofo

Olga Chomicova

Jeremiah Lascina

John Chavez

Nirav Modha

With Dr. Jay Menon

Anna Z. Yap

Karthik Gopal

Juan Claros

With Dr. Danielle Desroches

Marvin Calderon

With Dr. David Giley

Kristina Kuprik
Murat Mamkegh
Chad Socha

With Dr. Lance Risley
Anthony Figueroa
Christopher Mallory
Marilyn Kitchell
Stephany Caraballo
Buket Hakanoglu

With Dr. David Slaymaker
Luis Posada
Nicole Fantauzzi
Phu Dinh
Chris DeNude

With Dr. Carey Waldburger
Shall Kabrawala
Dawn Stager
Polliana Olivera

With Dr. Pradeep Patnaik ,
Mark Sauchelli at the University of Cambridge in England

Department of Environmental Sciences , WPUNJ

With Dr. Martin Becker
Marlayna Sosna
Justin Linteris

WHY YOU SHOULD DO AN INTERNSHIP OR AN INDEPENDENT STUDY OR A FIELD STUDY

“ It is an unwritten requirement for pre-dental, pre-med , pre-PA , pre-Pharmacy”

Dr. C. Leonard

“ It is a written requirement for Pre-PT”

Dr. C. Leonard

“ Research offer extracurricular experiences and are often the MOST memorable part of the undergraduate experience for those who are lucky enough or wise enough to take advantage of them”

Dr. S. Vail

“ The intense one-on-one interaction of faculty and student brings out the very best in students and faculty... Independent study and research internships are the highest quality educational experiences that we offer”

Dr. S. Vail

“ How do you truly know you have what it takes to be a physician? Follow one, see what she/he does, the hard work, the long hours, the sad cases, the tough conditions, the good news/ the devastating news , telling the patients and their families. Then, you really know”

Dr. D. Desroches

“ The main reason for these programs is to get our students to start thinking and acting less like a biology student and more like a scientist or other professional. Not only does it look good on their resume and increase their chances of landing a desirable job but it will help them transition into that job by giving them some hands on experience.”

Dr. C. Waldburger

A SMALL SAMPLE OF STUDENTS WHO DID INTERNSHIPS

And
*Where are **THEY** now?*

Rohan Palmer:: worked on Campus, with Dr. Benno .He is currently a PhD. Candidate at the Institute for Behavior Genetics at the University of Colorado.

Amin Espinal: worked on Campus with Dr. Patnaik and also interned OFF campus, at Rockefeller University NY for two summers. Currently a PhD candidate at Rockefeller University

Crystal Frazier: interned at the Medical Examiner 's Office in Morris County. Currently a PHYSICIAN ASSISTANT graduate.

Cristina Barton did an internship with Dr. Menon and got accepted at University of Connecticut School of Pharmacy

Chris Montes did an internship with Dr. Menon and is now in Medical School pursuing his MD.

Stephanie Chapelliquen did a Medical internship in Belize, via the International Service Learning Association; Currently in Medical School

Mario Sampson did an Internship with Dr. Patnaik and also interned OFF campus at Rockefeller University NY. Currently a PhD candidate in Pharmacy program at UC, San Francisco

Alphonso Dunn did an internship with Dr. Gerardi. Currently he is an Art Adjunct at Passaic Community College and an instructor of Chemistry at Silk City Academy in New Jersey.