

#### **MEMORANDUM**

TO:

President Edward T. Foote, II

FROM:

Dr. John Knoblock ッペ

Chairman, Faculty Senate

DATE:

May 6, 1988

SUBJECT:

Faculty Senate Legislation #87024(B)-Bachelor of Science Degree in Psychobiology

The Faculty Senate, at its meeting of April 11, 1988, voted to approve Faculty Senate Legislation #87024(B) - Bachelor of Science Degree in Psychobiology. The text of the legislation is attached for your action.

JK/b

Attachment

cc: Provost Luis Glaser



Faculty Senate 325 Ashe - Admin. Bldg. Coral Gables, Florida 33124 (305) 284-3721

# Faculty Senate Action, 87024 Class B Legislation

The Faculty Senate at its meeting of April 11, 1988 approved the creation of Bachelor of Science degree in Psychobiology in the College of Arts and Sciences. A description of the program is attached.

#### PROPOSED

#### PSYCHOBIOLOGY MAJOR

#### What is Psychobiology?

Psychobiology, the study of the biological bases of behavior, is an interdisciplinary program geared toward the student with strong interests in the disciplines of psychology and biology.

This rigorous major is designed for the highly qualified, highly motivated undergraduate student preparing for further study in any of the following:

- Health-related professional schools (Medical School, Dental School, Veterinary School, etc.)
- 2. Graduate study in biology and/or related fields, including neurobiology, animal behavior and behavioral ecology
- 3. Graduate study in psychology and/or related fields, such as psychobiology, neurosciences and behavioral medicine

#### Degree Requirements

Psychobiology is a program for superior students leading to the Bachelor of Science (B.S.) degree. The curriculum is comprised of seven courses in psychology, seven courses in biology, basic courses in chemistry, mathematics, physics and the distributive requirements to earn the degree. There is no minor requirement for this program. Completion of the program requires a minimum of 130 credits.

This program is open to freshmen who meet admission requirements for the Honors Program (SAT scores of 1200 or above; GPA of 3.3 or higher). Students may be admitted on an individual basis to the program after completion of 24 credit hours of course work at the University of Miami.

The Psychobiology major is administered jointly by two Program Directors, one from Biology and one from Psychology, appointed by the Chairpersons of the respective departments. The Program Directors have joint authority to approve advanced students for admission to the major.

#### Bachelor of Science in Psychobiology

College of Arts & Sciences . Distributive Requirements	Credits
English Composition	6
Foreign Language (French, German or Russian preferred)	9
Humanities	18
History/Social Sciences (3 hours of this requirement must include Honors 145 or Psychology 101)	18
Total Distribution =	51

Jeneral Science Requirements	Credits
Mathematics 111, 112 or 131, 132	8
Physics 101 with 106 and 102 with 108, or 211 with 222 and 212 with 236.	10
Chemistry 111, 112 and 201 with 203, 202	16
Total General Science	= 34
Major Requirements in Psychology and Biology (Core)	
Biology III - General Biology	4
Biology 112 - General Biology	4
Biology 216 Genetics and Evolution	3
Biology 218 Cellular and Molecular Biology	4
Psychology 102 General Principles of Psychology as a Biological and Behavioral Science	3
Statistics 204 Statistical Methods	3
Psychology 402 Psychobiology	3
Psychology 403 Laboratory in Psychobiology	2
. Total Core =	26

# Upper Division Major Requirements in Psychology and Biology

A student must take 6 additional upper division courses in Psychology and Biology. Three courses are to be selected from Psychology and three from Biology. Normally, students in Psychobiology will be expected to take Bil 319 and two other courses from the following listings: Bil 202, 301, 310, 324, 533, 540, 560. The Psychology elective list includes Psy 316, 318, 332, 345, 350, 352, 405, 420, 430, and 444. Students may petition to substitute a course not on the list, e.g., Psy 498 and 499.

The major in Psychobiology consists of a minimum of 45 credit hours in Biology and Psychology, and a maximum of 49 credit hours, depending on selection of elective major courses.

#### Special Considerations

The Departments do not anticipate special course sections for Psychobiology majors; therefore, these students will enroll in regularly scheduled courses and sections and Honors sections, whenever possible.

The Psychobiology program is not a substitute for the planned B.S. program in Psychology. This latter major has been waiting upon the development of psychology laboratory courses. This program is near realization with the availability of the new Behavioral Medicine Research Building.

#### Biology Courses in Psychobiology Major

#### CORE

#### BIL 111 - General Biology - 4 cr.

Easic principles of biology, covering cell structure and function, genetics and development, and the physiology of organisms. Lecture, 3 hours; laboratory, 3 hours.

#### BIL 112 - General Biology - 4 cr.

Basic principles of biology, covering plant and animal diversity, ecosystems, behavior, and evolutionary theory. Lecture, 3 hours; laboratory 3 hours. Prerequisite: BIL 111.

#### BIL 216 - Genetics and Evolution - 3 cr.

Basic principles of heredity and genome organization; population genetics; study of evolutionary forces, including maturation and natural selection. Lecture, 3 hours, <u>Prerequisite</u>: One year of biology with laboratory.

#### BIL 218 - Cellular and Molecular Biology - 4 cr.

The structure, molecules and functions of cells. Prerequisite: BIL 216 and one semester each of calculus and organic chemistry.

FLECTIVES - (3 to be selected; a minimum of one from each group)

#### Group A

#### BIL 202 - Comparative Vertebrate Anatomy - 4 cr.

Anatomy, classification, function, distribution, and evolution of vertebrate animals and their relationships to the environment. A basic course for biology majors and minors, premedical, predental and preveterinary students. Lecture, 2 hours; laboratory, 6 hours. Prerequisite: one year of biology with laboratory.

#### BIL 301 - Cytology and Histology - 3 cr.

Structure and function of cells and cell organelles, including a survey of selected cell and tissue types in the vertebrate body. Lecture, 3 hours. Prerequisite: BIL 112 or equivalent. Background in college-level chemistry and physics recommended.

#### BIL 310 - Developmental Biology - 4 cr.

Principles of differentiation, morphogenesis and development will be studied along with a critical analysis of the methods used to study these problems. Lecture, 3 hours; laboratory, 3 hours. Prerequisite: BIL 218.

#### Group B

#### BIL 319 - Animal Physiology - 3 cr.

Principles of homeostatis and behavioral integration. Physiological and structural adaptations of animals to their environments. Prerequisite: BIL 216, 218 or permission of instructor.

# .fl 324 - General Ecology - 4 cr.

Basic principles of the ecology of populations, communities, and ecosystems.

Lecture, 3 hours; laboratory, 3 hours, some Saturday field trips. Prerequisite:

BIL 216 or permission of instructor.

# BIL 533 - Biometry (only for students going into research) - 3 cr.

Descriptive and analytical statistics as used in biology. Emphasizes sampling, presentation of quantitative data, probability theory applications, distributions, parametric and non-parametric test procedures. Prerequisite: One year of calculus or permission of instructor.

# BIL 540 - Ethology: The Evolution of Behavior - 3 cr.

Evolutionary and comparative approach to current concepts in animal behavior and emphasizing functions and mechanisms of behavior. Topics include genetics of behavior, communication, territoriality, navigation, mating systems, and sociobiology. <a href="Perequisite">Prerequisite</a>: Genetics and Ecology or permission of instructor.

#### BIL 560 - Population Genetics - 3 cr.

Theories of genes in populations, including an analysis of the genetic basis of microevolution; current examples from natural and experimental populations.

Lecture and discussion, 3 hours. Prerequisite: BIL 216 and a year of calculus or their equivalents. A course in elementary statistics is strongly recommended.

#### CORE

# Psychology 102 - General Principles of Psychology as a Biological and Behavioral Science - 3 cr.

Introduction to the basic principles and methods of psychology as a biological and behavioral science. Topics surveyed include learning, memory, thinking, perception, drug influences upon behavior, and the physiological bases of development, sensation, motivation, emotion and other aspects of behavior.

#### Statistics 204 - Statistical Methods in Social Studies - 3 cr.

Introduction to methods needed in the analysis of data by students in the fields of psychology, sociology, human relations, and similar areas. Pre-requisite: MTH 101 or 102 or 105, or scores on the Mathematics placement test sufficient to allow admission to MTH 110 or 131.

#### Psychology 402 - Psychobiology - 3 cr.

Basic neuroanatomy, neurophysiology, and neurochemistry followed by an introduction to the physiological bases of sensation, motor systems, motivation, emotion, learning and memory. <u>Prerequisite</u>: nine credits in Psychology for Psychology majors or permission of the instructor for non-majors.

#### Psychology 403 - Laboratory in Psychobiology - 2 cr.

Basic neuroanatomy and selected laboratory experiments in psychopharmacology motivated behavior, sensory and motor systems, learning, and human psychophysiology. Standard physiological psychology laboratory procedures and techniques such as stereotoxic surgery, electrical stimulation, lesioning, perfusion, histology, and computer applications in research will also be taught. Two three-hour labs per week. Prerequisite: Psychology 402 or concurrent enrollment, and either Psychology 316 or 318.

#### KLECTIVES - (3 to be selected)

#### Psychology 316 - Experimental Psychology - 4 cr.

Selected laboratory experiments and demonstrations, lectures, collateral readings in methods and results of psychological experimentation. Prerequisite: Psy 101 or 102 and Sta 204.

#### Psychology 318 - Experimental Personality and Social Psychology - 4 cr.

Readings, laboratory experiments, and demonstrations on methodology, design, implementation, and interpretations of research. Lecture 3 hours, laboratory 2 hours. Prerequisite: Psy 101 or 102; and Sta 204.

#### Psychology 332 - Tests and Measurements - 3 cr.

Theory and principles of construction, use, evaluation, and interpretation of psychological tests and testing procedures. Psy 101 or 102 and Sta 204.

(Over)

# sychology 345 - Nutrition & Behavior - 3 cr.

The role of food in the body and brain and its effect on behavior. The effects of food additives, megavitamin therapy, sugar, cholesterol, fad diets, obesity, anorexia, malnutrition, nutritional deficiencies, alcohol and drug-vitamin interactions on behavior. Prerequisite: Six credits in psychology.

# Psychology 350 - Psychology of Human Sexual Behavior - 3 cr.

Interaction of biological and social factors in normal sexual development, and behavior patterns, etiologies of dysfunctions; paraphilias and gender-identity disorders; assessment and intervention procedures. Prerequisite: Six credits in Psychology

#### Psychology 352 - Abnormal Psychology - 3 cr.

Diagnostic formulations of the clinical syndromes; theories of psychopathological states. Prerequisite: Six credits in Psychology.

#### Psychology 405 - Animal Behavior - 3 cr.

Interdisciplinary and comparative approach to factors affecting behavior of animals at different phylogenetic levels. <u>Prerequisite</u>: Nine credits in Psychology for Psychology majors or permission of instructor for non-majors.

#### Psychology 420 - Psychology of Medicine - 3 cr.

Survey of applied psychology in medicine. Includes stress and disease etiology; psychosomatics; health beliefs, symptom recognition; health-care utilization; patient-practitioner communication; adherence to therapeutic regimens; patient satisfaction, emotional adjustment to illness; and rehabilitation. Pre-requisite: Nine credits in Psychology for majors, or permission of instructor for non-majors.

#### Psychology 430 - Principles of Behavior - 3 cr.

Intensive review of strategies for behavioral change. Methods of behavioral analysis. Applications to non-laboratory situations. Prerequisite: Senior standing; for non-majors nine credits in psychology or permission of instructor.

#### Psychology 444 - Intermediate Psychological Statistics - 3 cr.

Statistical reasoning and methods. Prerequisite: Sta 204 or equivalent and nine credits in Psychology.

# PROGRAM IN PSYCHOBIOLOGY;

A major in psychobiology leading to the Bachelor of Science degree is offered jointly through the Departments of Psychology and Biology. This rigorous major is designed for students preparing for health-related professional schools or graduate study in such fields as biology, neurobiology, behavioral ecology, ethology, psychology, psychobiology, neurosciences, and behavioral medicine. The program requires a minimum Advanced students may be admitted on an individual basis after completion of 24 credit hours at the University of Miami. Details are available of 130 credits. There is no minor requirement. Admission is open to freshmen with SAT scores of 1200 or above and GPA of 3.3 or higher. from either the Program Director in Biology or Psychology.

Distributive requirements are the same as for other B.S. degrees with the following exceptions:

- three credits of the History/Social Sciences requirement must include Psychology 101.
  - . Mathematics must include eight credits of 111-112 or 131-132.
- Physics must include 10 credits of 101 with 06 and 102 with 108, or 211 with 222 and 212 with 236.
  - f. Chemistry must include 16 credits: 111, 112, 201, and 202 with 203.

and PSY 403. In addition, three additional courses will be selected from Biology and three courses from Psychology. Normally, students will take BIL 319 and two courses selected from BIL 202, BIL 301, BIL 310, BIL 324, BIL 533, BIL 540, BIL 560. The three courses from Psychology will be selected from PSY 316, PSY 318, PSY 332, PSY 345, PSY 350, PSY 352, PSY 405, PSY 420, PSY 430, PSY 444. Excep-The major core requirements for the psychobiology major include BIL 111, BIL 112, BIL 211, BIL 311, PSY 102, PSY 204, PSY 402 tions may be made by petition to the appropriate Director. Special note: PSY 316/318 is a nonnegotiable prerequisite for PSY 403. CAPSULE:

Faculty Senate Legislation #87024(B) - Bachelor of Science Degree in Psychobiology

RESPONSE BY THE PRESIDENT:	DATE: 5/25/28
APPROVED: 42 3)	
OFFICE OR INDIVIDUAL TO IMPLEMENT OR PUBL	ISH:
EFFECTIVE DATE OF LEGISLATION:	<del></del>
NOT APPROVED AND REFERRED TO:	· .
REMARKS (IF NOT APPROVED):	
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FS 4/11/88 Page 2 Minutes

# Proposal for the Degree in Psychobiology - (First Reading)

Dean David Wilson, College of Arts and Sciences, explained the background of the psychobiology major that has been in existence since 1983. He noted that the program approved by the College Council had never been forwarded to the Senate for approval. As part of his presentation, Dean Wilson responded to questions raised by the Senate review committee. Upon recommendation of the Senate Council, it was moved, and seconded, to approve the program as presented. The motion carried. A motion to waive the second reading was unanimously adopted.

#### Proposal for Degree in Physical Therapy (First Reading)

Dr. Pamela Ferguson, Dean of the Graduate School, briefly summarized the background of the existing Physical Therapy Program and its move from the School of Education to the Medical School in May 1985. Professor Sherrill Hayes, Director of the program, presented the Master of Science in Physical Therapy requirements and the Master of Science program and discussed the difference between the two programs. Upon recommendation of the Senate Council, it was moved, and seconded, to approve the program as presented. The motion was unanimously adopted. A motion to waive the second reading carried.

# Report on Parking

The Senate reconfirmed its position that faculty ought to have a closed-access parking lot in which there is no ticketing for faculty and that the lot should be provided from the fringe benefit rate. The motion carried by acclamation. The Chairman noted that the recommendation from the Associate Vice President for Business Affairs was consonant with the Senate's recommendation with the exception that it still permits ticketing.

# General Education Requirements (Revised)

Dr. Knoblock reviewed the revised General Education Requirements document. It was moved, and seconded, to address the issue of areas of knowledge in the final document and to appoint an editorial committee to deal with this and other questions of style. The motion carried. It was moved, and seconded, to approve the mathematics requirement as written, with the request that the School of Business appropriately describe and label MAS 110 to reflect its content. The motion carried with two opposed. The main motion as amended was unanimously adopted.

The meeting adjourned at 5:40 P.M.

Barbara L. Hoadley

Secretary to the Faculty Senate

SC 4-4-88 Page 2 Minutes

Section 2.7, request specific number of credit hours following format already stated

Section 2.7.1, repeat current policy

Section 3.6.6, disapprove inserting "probationary" before "appointment" in each paragraph on grounds of style

Section 3.7, request explanation of retirement age

Section 4.3.3, request explanation for proposed change

Section 4.3.4, "disability" is not grounds for termination of tenure

Section 4.4, leave "Declared" in title

Section 4.4.2, disapprove as gramatically unsound

Section 4.5, strike "or Provost" and substitute "President"

Section 6.6.3, disapprove since "normally" is not used in a norm

Section 8.1, reaffirm 35 as a large department

Section 8.2, request insertion of "reasonable opportunity"

Section 9.1.2, reject the proposed change

Section 9.4 - It was moved, and seconded, to reaffirm the existing language of this section. The motion was unanimously approved.

Section 9.5.2, defer until administration proposes appropriate language

# Faculty Senate Legislation #87007(A) - Charter Amendment on Graduate School

The Council requested that the Chairman speak with the Provost concerning his memorandum of March 28 regarding Faculty Senate Legislation #87007(A) - Charter Amendment on Graduate School.

# Report on General Education Requirements

It was moved, and seconded, to agenda the Report on General Education Requirements for the April 11 Senate meeting, with the recommendation of the Senate Council. The motion carried.

# Report on Psychobiology Proposal

Dr. Neider presented the report of the ad hoc committee to review the Psychobiology proposal. The committee enthusiastically recommended the proposal to the Senate for approval. The motion to approve carried.

# Policy on Fraud and Misconduct in Science

Dr. Robert Rubin, Chairman of the University Patent and Copyright Committee, informed the Council that his committee had developed a policy dealing with fraud in research. He suggested that the Research Council meet with his committee to reconcile the two policies. Ms. Janice Hinds, Director of Research and Sponsored Programs, agreed to present to the Research Council the Senate Council's view that



#### M E M O R A N D U M

April 4, 1988

TO:

Dr. John Knoblock

Chairman

Faculty Senate and Government

FROM:

Faculty Senate Program Evaluation Committee for

the Psychobiology Major
Dr. Anthony T. Allegro,
School of Communication

Dr. Linda L. Neider,

School of Business Administration Dr. Myron Rosenthal, School of Medicine Dr. Frederick C. Tims, School of Music

SUBJECT:

Review of Psychobiology Major

Our committee met this morning, after an in-depth individual review of material relevant to the psychobiology major (including its' faculty, students, curriculum, etc.). Given the rigor of the curriculum, the quality of the students currently enrolled, and the impeccable qualifications of the faculty associated with it, we enthusiastically support the "post hoc" approval of this program. There were, however, a few issues that our committee would like to see addressed:

#### (1) Curriculum

- o Since the goal of at least one-third of the students in this program seems to be enrolling in Medical School, we wondered why a course in Physical Chemistry (CHM 360) was not required...
- o Considering the fact that most of the psychobiology program faculty have nationally known research records, we wanted to know whether or not students have the opportunity to take Directed Studies (in a relevant research area) with any of them...

Dr. John Knoblock Faculty Senate and Government April 4, 1988 Page Two

#### (2) Resource Issues

o Does our current library have the necessary resources (in terms of journals) to support student interest in this area? Are there any resources to support updated research material in this field?

LLN/ss

#### Memorandum

March 24, 1988

TO:

Linda Neider, Chair

Ad Hoc Committee Regarding Psychobiology Major

Faculty Senate Council

FROM:

Robert B. Tallarico (Ma)

Director, Psychobiology Major Department of Psychology

SUBJECT:

Additional Requested Information: Psychobiology Major

- 1. Enclosed please find the additional requested information regarding the Psychobiology Major:
  - a. high school grade point averages of students currently in program, and
  - b. listing of psychobiology major at other institutions of higher learning. The page is photocopied from the 1987 <u>Peterson's Guide to Four-Year Colleges.</u>

# Students Found on Psychology Registrar Records

Psychobiology Majors	SAT V Q	GPA/cr	Psy Codes	Post Baccalureate Plans	High School GPA
Santa-Cruz, Carols J.	641 642	3.839	POMP	Med School UM, So Fla, Fla	N.A.
Read III, Thomas L.		3.413/136	PRGP	Behavioral Medicine	A.N
Marcy, Michael J.	481 651	3.141/108	PRGP		4.026
Lindsay, Dana L.	591 745	3.702/125	PRGP	Med School, Tulane, Chicago	3.91
Delarno, Ramiro E.	412 461	3.382	PRMP		N.A.
Andrade, Idayna	582 592	3.261/139	PRGP	Behavioral Med?	4.32
Drabity, Gina	521 581	3.317/76	PRMP	Med. School	N.A.
Werb, Sue	700 721	3.718/70	POGP		4.14
Sasser, David C.	651 781	3.933/139	PRMP	Med School, Fla	4.80
Quintana, Lourdes S.	662 592	3.635/116	POMP		4,00
Quetel, Julie	711 591	3. 684/145	POGP	Behavioral Medicine	99.7%
Jahrio, Jennifer	540 611	3.341/112	POMP	Med. School	3.80
Cohen, Andrew	611 731	3.828/99	POMP	Clin. Psy /Health Psy	4.462
Mechaber, Alex J.	471 531	3.390/55	POMP		3,514
Black, Douglas J.	531 732	3.440/96	POMP		4.38 <i>5</i>
Badia, Anais		3.27/91	PRMP		N.A.
Albeg. Julie M.	531 671	3.236/56	POMP		3.64

\* Provided by Registrar 3/21/88 N.A. not available

# Paterson's Juide to Four Year Colleges, 1987

Majors Directory

Lethbridge anada)	AB	U of Tennessee at Martin U of Tennessee,	IN	, West Virginia U West Virginia Wesleyan	WV	U of Connecticut, Storrs U of Connecticut at	CT	Towson State U U of Wisconsin-
Louisville Lowell	KY MA	; Knoxville U of Texas at Arlington	ΤX	Coll Wheaton Coll	WV IL	Hartford U of Illinois at Urbana-	CT	Platteville Western Michigan U
Maine, Orono		; U of Texas at Austin	ŢX	Wheaton Coll	MA	Champaign	ΙĻ	Western Wichigan C
Maine at Presque	ME	. U of Texas at El Paso U of Texas at San	TX	Wheeling Co' Whitman Colf	WV WA	U of lowa U of Massachusetts at	JA.	DOMOUGO DOM
Manitoba (Canada) Mary Hardin-Baylor	BM XT	Antonio U of Texas at Tyler	TX TX	Whittier Coll	CA	Amherst	Ma_	PSYCHOBIOLOGY
Maryland Bartimore		U of Texas of the Permian		Whitworth Coll - Wichite State U	WA KS	U of Minnesota, Twin Cities Cmps	MN	Alabama Agricultural and
inty Maryland Coll Park	MD MD	Basin U of the District of	ΤX	Widener U, Pennsylvania Cmps	PA	U of New Mexico U of North Carolina at	NM	Mechanical U Albright Colf
Massachusetts at		Columbia	DC	Wilberforce U	OH	Chapel Hill	NC	Beaver Coll
herst Mjami	MA FL	U of the Pacific U of the South	CA TN	Wilfrid Laurier U (Canada)	ON	U of Pennsylvania U of Texas at Austin	PA TX	Bowdein Coll Centre Coll
Michigan, Ann Arbor	Mi	U of the State of New York,		r Wilkes Coll	PA	U of Toronto (Canada)	ON	Drew U
Michigan-Dearborn Michigan-Flint	MI Mi	i Regents Coll Degrees · U of Toledo	NY OSI	Williamette U William Jewell Coll	OR MO	ป of Wisconsin-Madison ป of Wisconsin-	WI	: Elon Coll : Goucher Coll
Minnesota, Duluth	MN	: U of Toronto (Canada)	OIM	William Paterson Coll of New		Milwaukee	WI	Grand Valley State Coll
Minnesota, Morris Minnesota, Twin Cities	MN	· U of Tulsa · U of Utah	OK UT	, lersey ; William Penn Coll	NJ IA	Vanderbill U	TN	Hamilton Coll Hiram Coll
ps	MN	U of Vermont	VT	Williams Coll	MA			Holy Family Colf Hood Coll
Mississippi Missouri-Columbia	MS MO	U of Victoria (Canada) U of Virginia	BC VA	William Smith Coll     William Woods Coll	NY MO	POULTRY SCIENCES		Lebanon Valley Coll
Missouri–Kansas	MO	U of Washington U of Waterloo (Canada)	WA	· Wilmington Call of Ohio	OH	i Alabama Agricultural and o		Loma Linda U
/ Missouri–St Louis	MO	U of Waterioo (Canada) U of Western Ontario	ON	Wilson Coll : Winona State U	PA MN	Mechanical U	AL	Long Island U, Southampti Cmps
Montana	MΤ	(Canada)	ON	Winston-Salem State U	NC	Auburn U California Polytechnic State	AL	Luther Coll
Vontevallo Nebraska at Oniaha	AI N	U of West Florida U of Windsor (Canada)	EI	Winthrop Coll Wittenberg U	SC OH	U, San Luis Obispo	CA	Morningside Coll Mount Holyake Coll
Nebraska-Lincoln	NI	U of Winnipeg (Canada)	MB	Wolford Coll	SC	California State Polytechnic U, Pomona	CA	Nebraska Wesleyan U
Nevada, Las Vegas Nevada Renc	N۸	U of WisconsinEau Claire	WI	World Coil West Wright State U	CA OH	California State U,		New Coll of the U of South   Florida
New Brenswick,		t) of W:sconsar-t a		Kavier U	ОН	' Fresno   Clemson U	CA SC	New York U
tericton (Canada) New Brunswick, Saint	NB	Crosse U of Wisconsin-Madison	WI	Xavier U of Louistana * Yale U	LA CT	Cornell U	NY	Oberlin Coll Pine Manor Coll
n (Canada)	NB	U of Wisconsin-		Yeshiya U	NY	Kansas State U Louisiana State U and A&M	KS	Pitzer Coll
New Hampshire, ham	ΝŧΙ	Milwaukee U of Wisconsin-Oshkosh	Wi	York Coll of Pennsylvania York Coll of City U of NY	PÁ NY	Coll	LA	Quinniplac Coll Ripon Coll
New Haven	CT.	IJ of Wisconsin-Parkside	WI	York U (Canada)	ON	Michigan State U Mississippi State U	MI MS	Scripps Coll
New Mexico North Alabama	NM Al	U of Wisconsin Platteville	WL	Youngstown Stale U	ÇН	North Carolina State U at		State U of NY Coll at New Paltz
North Carplina at	NC	U of Wisconsin-River				Raleigh Ohio State U, Columbus	NC OH	U of British Columbia
eville North Carolina at	INU	Falls I of Wisconsin-Stevens	WI	POLLUTION CONTROL		Oregon State U	OR	(Canada) U of California, Irvine
ipel Hill	NC	Point	WI	TECHNOLOGIES		Penna State U Univ Park Cmps	PA	U of California, Los
North Carolina at rlotte	NC	U of Wisconsin-Superior U of Wisconsin-	WI	Massachusetts Inst of		Purdue U, West		, Angeles U of California, Riverside
North Carolina at		Whilewater	WI	Tech	MA	Lafayette Texas A&M U, Cobege	IN	U of California, Santa
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ungton	NU CIO	Upsala Coll	NJ OH	U of Michigan, Ann Arbor	MI	Tuskegee U U of Alberta (Canada)	AL AB	LI of Miami
Noda Dakota Northern Colorada	HD.	- Urbana U Ursmus Gotl	PΛ	U of North Carolina at Astroyllo	NC.	U of Arkansas,		U of Pennsylvania U of Southern California
Rorthern Iawa North Florida	IA H	Ulab State U Ulica Coll et Syracuse U	NY		. 65.7	Fayetteville 	AR	Vassar Coll
Notre Dame	iN	Valdosta State Coll	GA	DOLVMEN OFFICE		(Canada)	BC	Wellesley Coll Wesleyan U
Oklahoma	OK OK	Valparaiso U Vanderbilt U	IN TN	POLYMER SCIENCE		U of California, Davis U of Florida	CA FL	Western Kentucky U
Dregon Ditawa (Canada)	ON	Vassar Coll	NY	California State U. Chico	CA	U of Georgia	GA	Western Maryland Coll Westminster Coll
Pennsylvania Pittsourgh,	PΛ	Villanova U Virginia Commonwealth	PΑ	Carnegie-Mellon U Case Western Reserve U	PA OH	U of Guelph (Canada) U of Idaho	ON	Wheaton Coll
sburgh	₽A	Ű.	VA	Eastern Michigan U	MI	U of Maryland Coll Park	MD	
≥ittsburgh at aford	PA	Virginia Polytechnic Inst and State U	VA	Massachusetts Inst of Tech	MA	U of Maryland Eastern Shore	MD	PSYCHOLOGY
Pittsburgh at	- 1	Virginia State U	VA	Michigan Tech U	MI	U of Missouri–Columbia	MO	•
ensburg Pittsburgh at	PA :	Virginia Union U Voorhees Coll	VA SC	North Dakota State U Penna State U Univ Park	ND	U of Saskatchewan (Canada)	sк	<ul> <li>Abilene Christian U Acadia U (Canada)</li> </ul>
nstown	PA	Wabash Coll	IN	Cmps	PA	U of Wisconsin-Madison	Wi	Adams State Coll
?erfland ?uerto Rico,	OR	Wagner Coll Wake Forest U	NY NC	Rensselaer Polytechnic	NY	Virginia Polytechnic Inst and State U	VA	Adelphi U Adrian Coll
agirez	PR	Walsh Coll	OH	Inst State U of NY Cell of Envir	INT	Washington State U	WA	Agnes Scott Coll
Puerto Rico, Río Iras	PR	Washbern I/ of Topeka Washington and Jefferson	KS	Sci & Forestry	NY			Alabama Agricultural and     Mechanical U
Puget Sound	WA	Coll	PA	U of Detroit U of Southern Mississippi	Mí MS	PRACTICAL NURSING		Alabama State U
Redlands Regina (Canada)	CA SK	Washington and Lee U Washington State U	VA WA	· 				! Albany State Coll Albertus Magnus Coll
Rhode Island	Ri	Washington U	MO	PORTUGUESE		Oral Roberts U Webster U	OK MO	Albion Coll
Richmond Rochester	VA NY	Wayland Baptist U Waynesburg Coll	TX PA	r UKTUUUESE	i	recorder o	MO	Albright Coll Alcorn State U
St Thomas	ΓX	Wayne State Coll	NE	Brigham Young U	UT		.=-	Alderson-Broaddus Coil
San Diego San Francisco	CA :	Wayne State U Weber State Coll	MI UT	Brown U Florida International U	RI FL	PRINTING TECHNOLOG	IES	Alfred U Allegheny Coll
iaskatchewan		Webster U	MO	Friends World Coll	NY	Acad of Art Coll	CA	Allentown Coll of St Francis
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WANTA A VONSABAL GANYONX

TO: Linda Neider, Chair

Ad Hoc Committee Regarding Psychobiology Major

Faculty Senate Council

FROM: Robert B. Tallarico

Director, Psychobiology Major

Department of Psychology

SUBJECT: PSYCHOBIOLOGY MAJOR

 Enclosed please find the curriculum vitae of relevant faculty to the Psychobiology major.

- 2. Attached please find the curriculum handout we give to students regarding the Psychobiology major. Credits for PSY 204 reflect the approved change from 3 to 4, effective fall, 1988.
- 3. Also attached is my current record of Psychobiology majors. They were identified in the Registrar's records by an appropriate code, for example, POMP designates Psychology-Honors-Premed-Psychobiology. SAT scores are provided if they are available as well as GPA and number of credits earned as of 2/1/1988. Their post-baccalaureate plans are as accurate as I can make them.
- 4. The 1987 <u>Peterson's Guide to Four-Year Colleges</u> lists psychobiology as an undergraduate major in approximately 50 and neurosciences in approximately 15 institutions.
- 5. Furthermore, the 1987 <u>Guide to Graduate Study in Psychology and Associated Fields</u> published by the American Psychological Association lists approximately 50 Ph.D programs under the heading psychobiology, 50 under neuropsychology, 35 under neurosciences, 35 under behavioral medicine, and 35 under health psychology.
- 6. From the Medical School Admission Requirements 1988-1989 Bulletin published by the Association of American Medical Colleges, the following 1986-1987 data can be found regarding the percentage of majors accepted to medical schools nationally: Psychology 49%, Biology 51%, and Psychobiology 65%. The latter statistic compares favorably with Biomedical Engineering, 69% and Chemical Engineering, 67%.
  - If I can further assist you and your committee, please call me.

# PSYCHOBIOLOGY REQUIREMENTS BEGINNING FALL 1987

Department of Psychology University of Miami PROGRAM SHEET: B.S. DEGREE/PSYCHOBIOLOGY MAJOR

GENERAL REQUIREMENTS	MAJOR/MINOR REQUIREMENTS
A. ENGLISH COMPOSITION [6 CREDITS]	F. PSYCHOLOGY [22 CREDITS*]
English Composition I _3	PSY 316/318 Experimental Psych. 4
	PSY 402 Psychobiology3 PSY 403 Psychobiology Laboratory _2 PSY _# PSY _#
C. HISTORY/SOCIAL SCI [12 CREDITS]	* 22 PSY credits must average a 2.3 GPA on a 4.0 scale and include 15 credits in
HIS	Miami Department of Psychology. # See list in Undergraduate Bulletin G. BIOLOGY [23 CREDITS]
D. HUMANITIES [12 CREDITS]	BIL 111 Gereral Biology & Lab I 4
Fine Arts [3or6]	BIL 112 General Biology & Lab II 4
Philosophy/Religion [3or6]	BIL #
Literature [3or6]	
E. MATHEMATICS [12]	CHM 111 Principles of Chm & Lab I 4
MTH 111 OR MTH 131 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CHM 112 Principles of Chm & LabII 4 CHM 201 Organic Chem I 3 CHM 202 Organic Chem II 3 CHM 203 Organic Chem Lab 2
I. ELECTIVES [ to complete 120 credit hours	
	PHY 101 or PHY 211

# Students Found on Psychology Registrar Records

Psychobiology Majors	SAT V Q	GPA/cr	Psy Codes	Post Baccalureate Plans
Santa-Cruz, Çarols J.	641 642	3.839	POMP	Med School UM, So Fla, Fla
Read III, Thomas L.		3.413/136	PRGP	Behavioral Medicine
Marcy, Michael J.	481 651	3.141/108	PRGP	
Lindsay, Dana L.	591 745	3.702/125	PRGP	Med School, Tulane, Chicago
Delarno, Ramiro E.	412 461	3.382	PRMP	
Andrade, Idayna	582 592	3.261/139	PRGP	Behavioral Med?
Drabity, Gina	521 <b>581</b>	3.317/76	PRMP	Med. School
Werb, Sue	700 721	3.718/70	POGP	
Sasser, David C.	651 781	3.933/139	PRMP	Med School, Fla
Quintana, Lourdes S.	662 592	3.635/116	POMP	
Quetel, Julie	711 591	3. 684/145	POGP	Behavioral Medicine
Jahrio, Jennifer	540 611	3.341/112	POMP	Med. School
Cohen, Andrew	611 731	3.828/99	POMP	Clin. Psy /Health Psy
Mechaber, Alex J.	471 531	3.390/55	POMP	
Black, Douglas J.	531 732	3.440/96	POMP	
Badia, Anais		3.27/91	PRMP	
Albeg. Julie M.	531 671	3.236/56	POMP	

#### Report on the Bylaw on Faculty Appointment, Promotion, and Tenure

Provost Glaser reported on the discussions concerning the proposed bylaw changes. He stated that some problems still exist with the language of the Educator Faculty portion of the document. Several Council members requested that action be taken on sections which do not appear to have problems. It was noted that the Senate would have to be informed of the President's actions and, in the case of Charter changes, a general faculty vote must be undertaken. The Provost assured the Council that he would expedite the procedure wherever possible.

#### Psychobiology Proposal

Dr. William Evoy, Department of Biology, presented the existing inter-disciplinary program in psychobiology which consists of the biology and psychology core curriculum and three elective courses from each department. It was noted that although this major was approved by the Arts and Sciences College Council, it was never brought to the Faculty Senate for approval. After discussion, it was moved by Dr. Brass, seconded by Dr. Tims, to refer the proposal to a sub-committee for further review and to request a report be prepared for the Council as soon as possible. The motion carried. Dr. Knoblock appointed Dr. Neider as chairperson for the sub-committee and requested a written report for the April meeting of the Council.

# Report of the Ad Hoc Retirement Committee

Dr. Steven Green, Chairman of the Ad Hoc Retirement Committee, stated that the committee had been appointed to investigate three areas: 1) the inequities between the Employee Retirement Plan and the Faculty Retirement Plan with regard to the rationale of the choices available to faculty to switch plans; 2) the overfunded status of the Employee Retirement Plan; and 3) the pending tax reform legislation. He discussed two proposals being considered by the committee: 1) to eliminate the Employee Retirement Plan and enroll everyone in a defined contribution plan with certain provisions for those people who may have better benefits in the present Employee Retirement Plan; and 2) to provide a cash balance plan where everyone enrolled would have an identified amount in their personal retirement account. These proposals will be presented to the administration by Treasurer Diane Cook and then to the Board of Trustees.

# Review of OSCAR (Computerized Registration)

Dr. Thompson Biggers, Associate Dean for Enrollment Services, reviewed the on-line student computerized academic registration (OSCAR) and distributed several forms to be used by students and faculty during the registration process. He suggested that faculty should advise students into first choice courses with alternatives available

SC 2/8/88 Minutes Page 2

The Chairman convened the Open Session of the Council.

#### APPROVAL OF MINUTES

The minutes of the January 11 Council meeting were approved as submitted. Excused absences were approved for Drs. Hayes and Swan.

#### PROGRAM IN PSYCHOBIOLOGY

Dr. Knoblock informed the Council that he had called Dean Wilson's attention to the fact that the existing Program in Psychobiology had never been approved by the Senate. It was moved by Dr. Brass, seconded by Dr. Allegro, to inform the College of Arts and Sciences that, since the Senate has not approved this major, it is not a valid major. If the College wishes approval of this program, it will be required to meet the guidelines for new programs. The Senate Council recommends: 1) that no further majors be given until this program has proper approval; and 2) that students already in the program should be transferred to programs in either biology or psychology. The motion carried with one opposed and one abstention. It was moved, and seconded, to recommend temporary approval be given through May 31, 1988 to the psychobiology major for the purpose of protecting those students currently enrolled in the program and expecting to graduate in May or any student who will have received a degree by May 31. The motion carried unanimously.

#### BENEFITS FOR PART-TIME INSTRUCTORS

The Chairman reported that over seven hundred people are employed by the University as part-time staff and faculty. These individuals are not covered by any kind of medical insurance fringe benefit. He stated that a formula is being developed to include those who are teaching the equivalent of a regular faculty member.

#### RESEARCH AND TRAINING ASSOCIATES

The Chairman announced that this matter still persists in the affected school. He will continue to monitor the problem.

#### SUMMER SCHOOL CONTRACTS

Dr. Knoblock informed the Council that it has not been decided whether or not to make summer school contracts firm.





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**MEMO** 

January 27, 1988

TO:

Professor John Knoblock,

Chairperson Faculty Senate

FROM:

Dean David Wilson,

College of Arts & Sciences

Via:

Charles Mallery,

Assistant Dean

Subject:

Psychobiology Major

The College of Arts & Sciences formally petitions the Faculty Senate for approval of a major in Psychobiology leading to the Bachelor of Science degree offered jointly through the Departments of Psychology and Biology.

During the Fall semester of 1983, after debate and approval by the School Council, the Faculty of the College of Arts & Sciences at its general faculty meeting of November 22, 1983 passed unanimously the major in Psychobiology. No further approval than the Faculty of the College was sought as it was believed that was the only approval necessary.

Attached is a description of the Psychobiology major as approved by the Faculty of Arts & Sciences.

Thank you.

CHM/jk



#### CURRICULUM VITAE

NAME:

William H. Evoy

TITLE:

Professor, Biology

DATE AND PLACE

OF BIRTH:

July 1, 1938; Philadelphia, Pennsylvania

(U.S. Citizen)

EDUCATION:

Bowdoin College, Brunswick, Maine 1956-58 Reed College, Portland, Oregon B.A. 1958-60 University of Oregon, Eugene, Oregon Ph.D. 1960-64

**PROFESSIONAL** EXPERIENCE:

Research Assistant, U.S. Fish & Wildlife Service, Summer-1959,1960 Biological Laboratory, Woods Hole, Mass. 1960-61 Teaching Assistant, University of Oregon 1961-64 UPHS Trainee, Comparative Physiology, University of Oregon Grass Foundation Fellow, Marine Biological Laboratory, Summer-1964 Woods Hole, Mass. Research Associate, Dept. Biological Sciences, 1964-66 Stanford University (with Prof. Donald Kennedy) 1966-69 Assistant Professor of Biology, University of Miami, Coral Gables, Florida Associate Professor of Biology, University of Miami,

1969-76 Coral Gables, Florida

2/73-6/73 Visiting Investigator, Laboratory for Neurobiology,

University of Puerto Rico

1976-Professor of Biology, University of Miami, Coral

Present Gables, Florida

1972-81 Director, Laboratory for Quantitative Biology

4/83-8/83 Visiting Investigator, Department of Zoology, Univer-

sity of Bristol, England

5/84-6/84 Benjamin Meaker Visiting Professor, University of

Bristol, England

#### MEMBERSHIP IN PROFESSIONAL SOCIETIES:

AAAS (Fellow)

Society of General Physiologists

Crustacean Society

Division of Comparative Physiology, A.S.Z

Society for Experimental Biology

Society for Neuroscience

International Society for Neuroethology

#### MAJOR PUBLICATIONS:

Kennedy, Donald and Evoy, William H. 1966. The distribution of pre- and postsynaptic inhibition at crustacean neuromuscular junctions. J. Gen. Physiol. 49, 457-468.

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- Evoy, W.H. 1967. Central commands for postural control in the crayfish abdomen. In Invertebrate Nervous Systems, C.A.G. Wiersma, ed. pp. 213-17.
- Evoy, W.H. and Donald Kennedy. 1967. The central nervous organization underlying control of antagonistic muscles in the crayfish. I. Types of command fibers. J. Exp. Zool. 165, 223-238.
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- Evoy, W.H., Kennedy, D. and Wilson, D.M. 1967. Discharge patterns of neurons supplying tonic abdominal muscles in the crayfish. J. Exp. Biol. 46, 393-412.
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- Evoy, W.H. and Cohen, M.J. 1971. Central and peripheral control of arthropod movements. (Review Article) Advances in Comp. Physiol. and Biochem. Vol. 4, 225-266.
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- Evoy, W.H. and C.R. Fourtner. 1973. Nervous control of walking in the crab, Cardisoma guanhumi. III. Proprioceptive influences on intra- and intersegmental coordination. J. Comp. Physiol. 83, 303-318. Fourtner, C.R. and Evoy, W.H. 1973. Nervous control of walking in the
- 17. crab, Cardisoma guanhumi. IV. Effects of myochordotonal organ ablation. J. Comp. Physiol. 83, 319-329.
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- 3. Evoy, William H. and Kennedy, Donald. 1965. Central control of tonic muscles in the crayfish abdomen. Am. Zool. 5, 107.
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- 2. Bowerman, R.F. 1977. A muscle receptor organ in the scorpion post abdomen. II. Reflexes evoked by MRO stretch and release. J. Comp. Physiol. 81, 147-157.
- 3. Fountain, R.L. 1973. Motor control of accessory muscles in the tendon receptor organ in Limulus polyphemus. Comp. Biochem. Phsiol. 44A, 511-517.
- 4. Silvey, G.E. 1973. Motor control of tail-spine rotation of the horseshoe crab, Limulus polyphemus. J. Exp. Biol. 58, 99-625.
- 5. Moffett, S.B. 1975. Motor patterns and structural interactions of basiischiopodite levator muscles in routine limb elevation and production of autotomy in the land crab, <u>Cardisoma guanhumi</u>. J. Comp. Physiol. 96, 285-305.
- 6. Grote, J.R. 1981. The effect of load on locomotion in crayfish. J. Exp. Biol. 92, 277-288.

#### REVIEWS (Invited)

1983 Locomotion and Energetics of Arthropods (C.F. Herreid & C.R. Fourtner eds.)
American Scientist.

#### INVITED SEMINARS AND SYMPOSIA (1980-1987):

- "Sensory Feedback in Crustacean Walking", Dept. of Biology, University of South Florida, Tampa, Jan. 9, 1981.
- "Multi-functional Systems for Crustacean Limb Movement Control" Symposium on "Elements of Behavior: Systems of Identified Neurons", in honor of Donald Kennedy. Stanford University, August 16-18, 1981.
- Seminars on Crustacean Motor Control and Muscle Properties. University of Bristol [England], Dept. of Zoology and Dept. of Physiology, University of Glasgow. 1983.
- "Central Pattern Generation in Tadpole Swimming", Georgia State University, October, 1983.
- "Central Pattern Generation in Tadpole Swimming", Dept. of Biology, Univ. of Miami, Spring 1984
- "Neuronal Strategies for Animal Locomotion", Dept. of Biological Sciences, Florida International University, November 1986

# GRANTS, RESEARCH AND TRAINING:

NSF GB 8447	1966-1969
NSF GB 5599	1969-1970
NASA NGL 10-007-010 Sub 2	1971-1972
NSF GB 30605	1970-1976
NIH HD00187 - (Training Grant) P.I.	1972-1973
NSF BNS 21721	1977-1980
Proposal to NINCDS approved but not funded	1979
NINCDS Nat'l. Res. Serv. Award (R. Crabtree) Sponsor	1979-1981
NIMH RO1MH37184 Co-P.I. with B.L. Partridge	1982-1983
NIH Fogarty Senior International Fellowship	1983
FIC TW00785-01	
NSF US-UK Cooperative Research Program	Withdrawn upon award
, ·	of above grant
NIH Subl1 RR 07022-16 (Univ. of Miami)	1983-1985
Benjamin Meaker Visiting Professorship, University	
of Bristol, England	1984

### MASTERS AND DOCTORAL WORK SUPERVISED:

Brooks P.Jones R. L. Fountain R.F. Bowerman C.J. Moody	(M.S., Psychology) (M.S., Biology) (Ph.D., Biology) (Ph.D., Biology-CMB)	1970 1970 1971 1972 1972
G.E. Silvey R.L. Fountain	(Ph.D., Biology) (Ph.D., Biology)	1972
J.R. Grote S.B. Moffett	(M.S., Biology) (Ph.D., Biology)	1972 1973
L.F. Eastman	(Ph.D., Physiology & Biophysics) Co-Chair with K.L. Magleby	1975
J.R. Grote	(Ph.D., Biology)	1976
W.P. Hofmann R. Andreu	(M.S., Biology) (M.S., Biology)	1976 1977
J.C. Hackman	(Ph.D., Biology)	1979
T.L. Vandergon	<pre>(Co-Chair with R.A. Davidoff) (M.S., Biology)</pre>	1980-replacement for B.N. Burkett
F. Mazzotti	(M.S.,Biology)	1981-replacement for A.T. Smith
P.B. Larson, M.D. Brigitte Rose	(Ph.D. student-on leave) (M.S. student)	current completed Fall, 1987

### POSTDOCTORALS:

L.B. Kahan, Ph.D., Stanford University	1967-1968
C.P Spirito, Ph.D., Univ. of Connecticut	1969-1970
C.R. Fourtner, Ph.D., Michigan State Univ.	1971 <b>-</b> 1973
R.L. Crabtree, Ph.D. Clark Univ.	1977-1981

#### MAJOR RESEARCH INTERESTS:

Neurophysiological mechanisms that underlie behavior. Neuronal control of locomotion and posture. The role of proprioceptors in control of locomotion. Field and laboratory studies of the sensory basis of insect behavior. Pharmacology and physiology of nerve-muscle junctions. To: Arthur W. Brown, Dean of Arts & Sciences

From: Clyde Hendrick, Chairman of Psychology

Jay M. Savage, Chairman of Biology

Subject: Proposed Psychobiology Major

Date: July 15, 1983

We are pleased to present you with a proposal for a new major, Psychobiology, to be offered jointly by the Departments of Biology and Psychology. The proposal has gone through several iterations by us and has been approved by the faculties of the two departments. We present it to you for consideration by the College Council and other appropriate bodies.

This joint major is intended for the elite student. It is aimed at students primarily at the honors level of excellence. Initial enrollments will probably be small. But we expect that if Dr. Ash's efforts to expand honors enrollments are successful, the program may increase in size substantially in the years ahead.

cc: James L. Ash, Jr., Director of Honors & Privileged Studies.

CH/bmm

# PROGRAM IN PSYCHOBIOLOGY:

A major in psychobiology leading to the Bachelor of Science degree is offered jointly through the Departments of Psychology and Biology. biology, behavioral ecology, ethology, psychology, psychobiology, neurosciences, and behavioral medicine. The program requires a minimum This rigorous major is designed for students preparing for health-related professional schools or graduate study in such fields as biology, neuroof 130 credits. There is no minor requirement. Admission is open to freshmen with SAT scores of 1200 or above and GPA of 3.3 or higher. Advanced students may be admitted on an individual basis after completion of 24 credit hours at the University of Miami. Details are available from either the Program Director in Biology or Psychology.

Distributive requirements are the same as for other B.S. degrees with the following exceptions:

- three credits of the History/Social Sciences requirement must include Psychology 101.
  - 2. Mathematics must include eight credits of 111-112 or 131-132.
- Physics must include 10 credits of 101 with 06 and 102 with 108, or 211 with 222 and 212 with 236,
  - 4. Chemistry must include 16 credits: 111, 112, 201, and 202 with 203.

The major core requirements for the psychobiology major include BIL 111, BIL 112, BIL 211, BIL 311, PSY 102, PSY 204, PSY 402 and PSY 403. In addition, three additional courses will be selected from Biology and three courses from Psychology. Normally, students will take BIL 319 and two courses selected from BIL 202, BIL 301, BIL 310, BIL 324, BIL 533, BIL 540, BIL 560. The three courses from Psychology will be selected from PSY 316, PSY 318, PSY 332, PSY 345, PSY 350, PSY 352, PSY 405, PSY 420, PSY 430, PSY 444. Exceptions may be made by petition to the appropriate Director. Special note: PSY 316/318 is a nonnegotiable prerequisite for PSY 403.

#### CURRICULUM VITAE

Thomas G. Nolen
Department of Biology
University of Miami
P.O. Box 249118
Coral Gables, FL 33124
(305) 284-6206

EDUCATION	
1984-87	Yale University, Postdoctoral Research Fellow (NIH NRSA)
1978-84	Cornell University, Ph.D.
1976-78	University of California, Santa Barbara, M.A.
1972-76	University of California, Santa Barbara, B.A.
<b>EPLOMEN</b> T	Donate of Pieloni
1987-	University of Miami, Assistant Professor, Department of Biology
PROFESSIONAL	
Research A	ctivities the neural basis of phonotaxis
1 <del>9</del> 78–84	Anatomical, electrophysiological and behavioral work on the neural basis of phonotaxis in flying crickets. Cornell University
1984-87	Post-doctoral work on the development of the cellular and molecular mechanisms underlying learning in juvenile <u>Aplysia californica</u> . Yale University and the Marine Biological Laboratory, Woods Hole, <u>Massachusettes</u>
1987	Neurophysiological, pharmacological and anatomical approaches to the development of behavior, and of behavioral plasticity. University of Miami
Pear Review	
The	National Science Foundation
Bra	nin Research
The	Journal of Experimental Biology
HOMES	
1974-75	NSF ('74) and UC Regent's ('75) Undergraduate Research Fellowships, UCSB [Competitive: Summer stipend and tuition]
1976	On graduation from UCSB: Graduation with Highest Honors (4.0 GPA), selected as the Outstanding Graduating Senior in Biology. Dean's List Scholar, 4 years. California State Scholar, 4 years.
1976	University of California President's Graduate Research Fellow, UCSB [Competitive fellowship: Stipend, tuition]
1978-80,	NIH Predoctoral Trainee, Cellular and Molecular Neurobiology Training Grant, Cornell '81-83 University [Stipend, tuition, supplemental research support]
1980-61	NIMH Predoctoral Trainee, "Mechanisms of frequency analysis in the cricket."  Integrative Neurobiology Training Grant, Cornell University [Competitive fellowship/grant: Stipend, tuition and \$800 project support grant]
1985-86	Visiting Fellow, Yale College, Yale University.
1985	Finalist, Donald B. Lindsley Prize in Behavioral Neuroscience
1986	Grass Foundation Summer Research Fellow, the MEL, Woods Hole, Massachusettes [Competitive fellowship: Summer stipend and research support grant]
19 <del>84-8</del> 7	NIH Postdoctoral Fellowship, "Development of learning and memory in <u>Aplysia</u> ," Yale University [Competitive fellowship: Stipend + \$3000/yr supplemental research
1988	University of Mismi Summer Awards in the Natural Sciences and Engineering. "Development of sensitization in <u>Aplysia californica</u> ." University of Mismi. [Competitive: \$5000 summer research stipend]

S.W. Kuffler Summer Research Fellowship, the MEL, Woods Hole, Massachusettes

1988

#### **PUBLICATIONS**

Papers in Reviewed Journals

Camhi, J.M. and Nolen, T.G. (1981). Properties of the escape system of cockroaches during walking. J. Comp. Physiol. A. 142:339-346.

Nolen, T.G. and Hoy, R.R. (1984). Initiation of behavior by single neurons: The role of behavioral

context. Science. 226:992-994.

Hoy, R.R., Nolen, T.G., Casaday, G.B. (1985). Dendritic sprouting and new synaptogenesis in an identified interneuron following auditory deprevation in a cricket. Proc. Natl. Acad. Sci. (USA). 82:7772-7776.

Nolen, T.G. and Hoy, R.R. (1986a). Phonotaxis in flying crickets: II. Physiological mechanisms of two-tone suppression of the high frequency avoidance steering behavior by the calling song.

J. Comp. Physiol. A. 159: 441-456.

- Nolen, T.G. and Hoy, R.R. (1986b). Phonotaxis in flying crickets: I. Attraction to the calling song and avoidance of bat-like ultrasound are discrete behaviors. J. Comp. Physiol. A. 159: 423-440.
- Nolen, T.G., Marcus, E.A. and Carew, T.J. (1987). Development of learning and memory in Aplysia. III. Central neuronal correlates. J. Neurosci. 7: 144-153.
- Nolen, T.G. and Hoy, R.R. (1987). Postsynaptic inhibition mediates high-frequency selectivity in the cricket Teleogryllus oceanicus: Implications for flight phonotaxis behavior. J. Neurosci. 7: 2081-2096.
- Nolen, T.G. and Carew, T.J. (1988). The cellular analog of sensitization in Aplysia emerges at the same time in development as behavioral sensitization. J. Neurosci. 8: 212-222.
- Marcus, E.A., Nolen, T.G., Rankin, C.H., and Carew, T.J. (1988). Behavioral dissociation of dishabituation, sensitization and inhibition in the siphon withdrawal reflex of adult Aplysia. Science, in press.

Reviews and Book Chapters

- Nolen, T.G., Rankin, C.H., Marcus, E.A., Stopfer, M. and Carew, T.J. (1986). An ontogenetic analysis of learning and memory in Aplysia. In: The Biology of Change in Otolaryngology. (Ruben, R.J., van de Water, T.R. and Rubel, E.W., eds). Excerpta Medica, Amsterdam, New York. pp 255-271.
- Hoy, R.R., Nolen, T.G. (1987). The role of context in decision-making by an identified interneuron in the cricket. In: Higher Brain Functions: Recent Explorations of the Brain's Emergent Properties. (Wise, S.P., ed). John Wiley and Sons, New York. 133-155.
- Marcus, E.A., Nolen, T.G., Rankin, C.H., Stopfer, M. and Carew, T.J. (1988). Development of behavior and learning in Aplysia. In: Invertebrate Neuroethology. Experientia. (Camhi, J.M., ed). Springer Verlag. (In Press).

Ph.D. Thesis

Nolen, T.G. (1984) The neural basis of ultrasound avoidance steering of flying crickets, 286pp. Cornell University.

Munimocripts in Preparation

Nolen, T.G. and Carew, T.J. (1988). The developmental emergence of serotonin immunoreactive neurons in the CNS of juvenile Aplysia: Implications for the emergence of behavioral sensitization. For submission to J. Neurobiol.

**Published Abstracts** 

Nolen, T.G., Marcus, E. and Carew, T.J. (1985). Development of learning and memory in Aplysia: III. Central neuronal correlates. Soc. Neurosci. Abstr. 11:643.

Carew, T.J., Marcus, E.A., Nolen, T.G. and Rankin, C.H. (1986). Contribution of central neuronal circuits to reflex gill and siphon withdrawal and simple forms of learning in developing Aplysia. Soc. Neurosci. Abstr. 12: 398.

Nolen, T.G., Mindell, J.A. and Carew, T.J. (1986). Development of neurotransmitters implicated in

learning in Aplysia. Soc. Neurosci. Abstr. 12: 399.

Marcus, E.A., Nolen, T.G., Rankin, C.H., and Carew, T.J. (1987). Behavioral dissociation of dishabituation, sensitization and inhibition in the siphon withdrawal reflex of adult Aplysia. Soc. Neurosci. Abstr. 13: 816.

Nolen, T.G. and Carew, T.J. (1987). Analysis of non-decrementing EPSPs prior to the emergence of sensitization reveals an inhibitory process in Aplysia. Soc. Heurosci. Abstr. 13: 816.

#### CURRICULUM VITAE

Richard R. Tokarz Assistant Professor of Biology (1983-Present) University of Miami Coral Gables, Florida

#### **EDUCATION**

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Postdoctoral Fellow in Biology (1978-1981) Museum of Comparative Zoology Harvard University Cambridge, Massachusetts

National Institues of Health Postdoctoral Trainee (1977-1978) Biochemistry, endocrinology, and reproductive biology Professor J. David Puett preceptor Vanderbilt University Nashville, Tennessee

Graduate student (1973-1968)
Ph.D., 1977
Professor Richard E. Jones Thesis advisor
Department of Biology
The University of Colorado
Boulder, Colorado

Graduate and undergraduate student (1962-1968)
M.S., 1968; B.S., 1964
Department of Biology
The University of New Mexico
Albuquerque, New Mexico

#### MILITARY

United States Air Force (1969-1972)

#### PREVIOUS ACADEMIC POSITIONS

Assistant Professor of Biology (1981-1982) Ramapo State College of New Jersey Mahwah, New Jersey

#### RESEARCH EXPERIENCE

Harvard University (1978-1981)
David Crews's laboratory
Hormonal regulation of sexual behavior in nonmammalian vertebrates:
correlated plasma steroid levels and receptor numbers with behavior;
effects of peptides on behavior.

Vanderbilt University (1977-1978)
J. David Puett preceptor
Steroidal control of messenger RNA levels: measured mRNA in chick oviduct following steroid treatment using RNA and cDNA hybridization techniques; learned radioimmunoassay and hormone receptor assays.

The University of Colorado (1975-1976)
Research assistant to Richard E. Jones
Hormonal control of ovarian function in reptiles: used autoradiography
methods to study effects of hormones on ovarian function; learned electronmicroscopy and histological techniques.

#### **TEACHING**

Fundamentals of Biology, Bil 111 and 112
physiology and animal behavior sections
Endocrinology, Bil 306
new course that I developed
average enrollment around 90 students
Animal Physiology, Bil 319
course coordinator
present about a third of lectures
average enrollment around 65 students
Student readings and research projects, Bil 411 and 412
supervised six students
Animal Behavior Seminar, Bil 688

#### FIELDS OF INTEREST

Animal behavior Endocrinology Reproductive biology Vertebrate physiology

#### PROFESSIONAL SOCIETIES

American Association for the Advancement of Science American Society of Zoologists Animal Behavior Society Endocrine Society Sigma Xi

#### INVITED SEMINARS AND SYMPOSIA

Invited participant for the 10th International Symposium on Comparative Endocrinology, 1985, Copper Mountain, Colorado University of Miami School of Medicine, Reproductive sciences and endocrinology laboratories, 1984, seminar Stockton State College, 1980, seminar The University of Tennessee, 1980, seminar Massachusetts Institute of Technology, Symposium on Hormonal regulation of sexual behavior, 1980 Vanderbilt University, 1978, seminar

### SCIENTIFIC MEETINGS

American Society of Zoologists Annual meeting, 1986, Nashville, TN
American Society of Zoologists Annual meeting, 1985, Baltimore, MD
Combined meetings of the Society for the study of Amphibians and Reptiles,
the Herpetologist's League, and the American Society of Ichthyologists
and Herpetologists, 1984, Norman, OK
American Society of Zoologists Annual meeting, 1983, Philadelphia, PA
Northeast Society of Animal Behavior, 1982, Boston, MA
East coast Conference of Reproductive Behavior (1980 - 1982)
American Society of Zoologists Annual meeting, 1980, Seatle, WA
American Society of Zoologists Annual meeting, 1979, Tampa, FL

#### THESES COMMITTEES

Thesis committee member for: John Beck Jr., Maureen Donnelly, Craig Guyer, March Hayes, Kevin Johnson, and Nancy Glassman (Marine School)

### TRAINING PROGRAMS

Affiliate preceptor for NIH-sponsored training program in Cellular and Molecular Reproductive Biology; University of Miami Medical School; Program Director: J. David Puett

Hormone Action and Molecular Endocrinology Workshop, March 1980. Sponsored by the Endocrine Society, Baylor College of Medicine.

#### GRANTS

NIH Biomedical Research Support Grant Award, 1983, \$5,000. Project title: Antigonadal activity of gonadotropin-releasing hormone analogs in reptiles.

NIH Biomedical Research Support Grant Award, 1984, \$2,750, Project title: Neural Androgen Action in Reptiles.

Junior Investigators Research Grant, Innovative Research of America, 1985, \$1,000

National Science Foundation proposal submitted 1987, requested amount \$70,591. (Not funded June 9, 1987). Title of proposal: Androgen control of male territorial behavior in the lizard Anolis sagrei. New proposal to the National Science Foundation in preparation.

Dealine for submission Jan. 15, 1988. Title of proposal: Alternation of hemipenis use in lizards: mechanism and adaptive significance.

#### GRANT AND MANUSCRIPT REVIEWER

Copeia Herpetological Review Journal of Endocrinology National Science Foundation

#### **PUBLICATIONS**

Primary author of articles in the following Journals: Animal Behaviour,

Brain Research, Endocrinology, General and Comparative Endocrinology, Hormones and Behavior, and Journal of Biological Chemistry

### Journal articles:

- Tokarz, R. R. (1987). Effects of corticosterone treatment on male aggressive behavior in a lizard (Anolis sagrei). Hormones and Behavior 21, 358-370.
- Tokarz, R. R. (1987). Effects of the antiandrogens cyproterone acetate and flutamide on male reproductive behavior in a lizard (Anolis sagrei). Hormones and Behavior 21, 1-16.
- Tokarz, R. R., and Beck, J. W., Jr. (1987). Behaviour of the suspected lizard competitors <u>Anolis sagrei</u> and <u>Anolis carolinensis</u>: an experimental test for behavioural interference. <u>Animal Behaviour</u> 35, 722-734.
- Tokarz, R. R. (1986). Hormonal regulation of male reproductive behavior in the lizard Anolis sagrei: a test of the aromatization hypothesis. Hormones and Behavior 20, 364-377.
- Tokarz, R. R. (1985). Body size as a factor determining dominance in staged agonistic encounters between male brown anoles (Anolis sagrei). Animal Behaviour 33, 746-753.
- Garstka, W. R., Tokarz, R. R., Diamond, M., Halpert, A., and Crews, D. (1985). Behavioral and physiological control of yolk synthesis and deposition in the red-sided garter snake (<u>Thamnophis sirtalis parietalis</u>). Hormones and Behavior 19, 137-153.
- Crews, D., Camazine, B., Diamond, M., Mason, R., Tokarz, R. R., and Garstka, W. R. (1984). Hormonal independence of courtship behavior in the male garter snake. Hormones and Behavior 18, 29-41.
- Jones, R. E., Guillette, L. J., Jr., Summers, C. H., Tokarz, R. R., and Crews, D. (1983). Ovarian follicular and luteal condition, and related steroid hormone levels, during the estrous cycle of the lizard, Anolis carolinensis. Journal of Experimental Zoology 227, 145-154.
- Tokarz, R. R., and Crews, D. (1982). Failure of a variety of antiestrogens to mimic estrogen action in the induction of sexual receptivity in a female lizard. Hormones and Behavior  $\underline{16}$ , 364-369.
- Moore, F. L., Zoeller, R. T., Spielvogel, S. P., Baum, M. J., Han, S-J., Crews, D, and Tokarz, R. R. (1982). Arginine vasotocin enhances influx of testosterone in the newt brain. Comparative Biochemistry and Physiology 70, 115-117.
- Tokarz, R. R., Crews, D., and McEwen, B. S. (1981). Estrogen-sensitive progestin binding sites in the brain of the lizard, <u>Anolis carolinensis</u>. Brain Research <u>220</u>, 95-105.

Tokarz, R. R., and Crews, D. (1981). Effects of prostaglandins on sexual receptivity in the female lizard, <u>Anolis carolinensis</u> Endocrinology 109, 451-457.

v ...

- Camazine, B., Garstka, W., Tokarz, R. R., and Crews, D. (1980). The effects of castration and hormone replacement therapy in garter snakes (Thamnophis sirtalis parietalis). Hormones and Behavior 14, 33-45.
- Tokarz, R. R., and Crews, D. (1980). Induction of sexual receptivity in the female lizard, Anolis carolinensis: effects of estrogen and the anti-estrogen CI-628. Hormones and Behavior 14, 33-45.
- Alderete, M. R., Tokarz, R. R., and Crews, D. (1980). Luteinizing hormone-releasing hormone (LHRH) and thyrotropin releasing hormone (TRH) induction of female sexual receptivity in the lizard, <u>Anolis carolinensis</u>. Neuroendocrinology 30, 200-205.
- Tokarz, R. R., Harrison, R. W., and Seaver, S. S. (1979). The mechanism of androgen and estrogen synergism in the chick oviduct: Estrogen-modulated changes in cytoplasmic androgen receptor concentrations. Journal of Biological Chemistry 254, 9178-9184.
- Tokarz, R. R., and Jones, R. E. (1979). A study of egg-related maternal behavior in <u>Anolis carolinensis</u> (Reptilia, Lacertilia, Iguanidae). Journal of Herpetology 13, 283-288.
- Tokarz, R. R. (1978). An autoradiographic study of the effects of mammalian gonadotropin (follicle-stimulating hormone and luteinizing hormone) and estradiol on tritiated thymidine labeling of surface epithelial cells, prefollicular cells, and oogonia in the ovary of the lizard, Anolis carolinensis. General and Comparative Endocrinology 31, 17-28.
- Tokarz, R. R. (1977). An autoradiographic study of the effects of FSH and estradiol on early ovarian follicular maturation in adult <u>Anolis</u> carolinensis. General and Comparative Endocrinology 31, 157-160.
- Jones, R. E., Fitzgerald, K. T., and Tokarz, R. R. (1977). Endocrine control of clutch size in reptiles. VII. Compensatrory ovarian hypertrophy following unilateral ovariectomy in <u>Sceloporus</u> occidentalis. General and Comparative Endocrinology 31, 157-160.
- Jones, R. E., Tokarz, R. R., LaGreek, F. T., and Fitzgerald, K. T. (1976). Endocrine control of clutch size in reptiles. VI. Patterns of FSH-induced ovarian stimulation in adult <u>Anolis</u> carolinensis. General and Comparative Endocrinology 30, 101-116.
- Jones, R. E., Tokarz, R. R., Roth, J. J., Platt, J. E., and Collins, A. C. (1976). Tissue histamine levels in the lizard <u>Anolis carolinensis</u>. Copeia <u>1976</u>, 397-398.
- Jones, R. E., Tokarz, R. R., and LaGreek, F. T. (1975). Endocrine control of clutch size in reptiles. V. FSH-induced follicular formation and growth in immature ovaries of Anolis carolinensis. General and Comparative Endocrinology 26, 354-367.

Jones, R. E., Tokarz, R. R., Roth, J. J., Platt, J. E., and Collins, A. C. (1975). Mast cell histamine and ovarian follicular growth in the lizard Anolis carolinensis. Journal of Experimental Zoology 193, 343-352.

### Book chapters:

- Crews, D., Gustafson, J. E., and Tokarz, R. R. (1983). Psychobiology of parthenogenesis. In: "Lizard Ecology" (R. Huey, T. Schoener, and F. Pianka, eds.), pp. 205-232. Harvard University Press, Cambridge, MA.
- Tokarz, R. R. (1978). Oogonial proliferation, oogenesis, and folliculogenesis in nonmammalian vertebrates. In: "The Vertebrate Ovary -- Comparative Biology and Evolution" (R. E. Jones, ed.), pp. 145-179. Plenum Press, New York, NY.

### Abstracts:

- Tokarz, R. R. (1986). Effects of corticosterone on male agonistic behavior in a lizard. American Zoologist 26, 635.
- Tokarz, R. R. (1985). Reproductive behavior in male lizards treated with the antiandrogens cyproterone acetate and flutamide. American Zoologist 25, 412.
- Tokarz, R. R., and Beck, J. W., Jr. (1985). Behavioral responses during staged encounters between the suspected lizard competitors <u>Anolis sagrei</u> and <u>Anolis carolinensis</u>. American Zoologists <u>25</u>, 26.
- Tokarz, R. R. (1983). Effects of gonadotropin-releasing hormone antagonists on ovarian recrudescence in the lizard, <u>Anolis carolinensis</u>. American Zoologist 23, 169.
- Tokarz, R. R., Crews, D., and McEwen, B. S. (1980). Identification of progestin binding sites in the brain and oviduct of the lizard Anolis carolinensis. American Zoologist 20, 550.
- Tokarz, R. R., and Crews, D. (1979). Temporal pattern of estrogen-induction of female sexual receptivity in the lizard, <u>Anolis carolinensis</u>. American Zoologist 19, 594.
- Alderete, M., Tokarz, R., and Crews, (1979). Luteinizing hormone-releasing hormone and thyrotropin-releasing hormone induction of female sexual receptivity in the lizard, Anolis carolinensis. American Zoologist 19, 593.
- Tokarz, R. R., Seaver, S. S., and Harrison, R. W. (1978). Estrogen regulation of testosterone receptor concentrations in the chick oviduct. Journal of Cell Biology 79, 193.

#### Dissertation:

Tokarz, R. R. (1977). Effects of mammalian gonadotropins and estradiol on tritiated thymidine labeling of cells in the ovary of the lizard <u>Anolis</u> carolinensis. Ph.D. Dissertation, The University of Colorado, Boulder, CO

#### CURRICULUM VITA

David L. Wilson, Ph.D. College of Arts and Sciences University of Miami P.O. Box 248004 Coral Gables, Florida 33124 Phone (305) 284-4117

Born: January 11, 1943

Married to Margaret Gibbons Wilson, 1967

Daughter, Mariah, born 1980

Social Security Number: 220-40-3975

### Education

B.S. degree, University of Maryland, June, 1964, Physics Ph.D. degree, University of Chicago, June, 1969, Biophysics

#### **Positions**

1969 - 1972	Research Fellow, California Institute of Technology
1972 - 1976	Assistant Professor of Physiology and Biophysics, University of Miami, School of Medicine
1976 - 1981	Associate Professor of Physiology and Biophysics, University of Miami, School of Medicine
1981 - present	Professor of Physiology and Biophysics, University of Miami, School of Medicine (secondary appointment beginning 1985)
1982 - 1985	Deputy Dean for Academic Affairs and Associate Dean for Research and Sponsored Programs, University of Miami, School of Medicine
1983 - 1985	Associate Provost for Research and Dean of the Graduate School (Interim), University of Miami
1985 - present	Professor of Biology, University of Miami
1985 - present	Dean of the College of Arts & Sciences, University of Miami

#### Honors Fellowships and Grants

Pi Mu Epsilon (Mathematics) (1963)

Sigma Pi Sigma (Physics) (1963)

National Sciences Foundation undergraduate research program (1963-1964)

B.S. degree with honors and honors in Physics (1964)

National Institutes of Health Predoctoral Fellowship (1964-1968)

James Franck Dissertation Fellowship (1968-1969)

Helen Hay Whitney Postdoctoral Fellowship (1969-1972)

Omicron Delta Kappa (1985)

NIH research grant NS10428 (1972-1974) Aplysia neuron proteins

NIH research grant NS12393 (1975-1979) Control of protein synthesis in the nervous system

NIH research grant NS14328 (1978-1982) Axoplasmic transport of proteins

NIH training grant NS07044 (1980-1985) Neuroscience - program director

National Parkinson Foundation (1982-1983) Growth factors with high affinity for nigrostriatal dopaminergic neurons

NSF research grant BNS - 8117817 (1982-1985) Axonal transport and the destination of proteins

NIH research grant NS18263 (1983-1986) Biochemistry of nerve regeneration Conference Grants (NSF, ONR, and AFOSR) (1987) Gordon Conference on Neural Plasticity

#### Society Memberships

American Association for the Advancement of Science

American Physiological Society

American Society for Neurochemistry

Sigma Xi

Society for Neuroscience

### Educational and University Activities

Teach graduate and undergraduate students in the areas of biology, neuroscience, biochemistry, neurochemistry, neurophysiology, biophysics, cell biology, and molecular biology

Teach MD and PhD-to-MD students, lectures in cellular biophysics and neurophysiology

Served as member or chairperson of numerous Department, School and University committees, including curriculum development, admissions, graduate studies, Faculty Senate, Faculty Senate Council, training grant program committees, search committees, Affirmative Action Committee, Graduate Council, Research Council, Patent and Copyright Committee, University Budget Committee, and numerous ad hoc committees.

Member, Science Committee of the Dade County Council of Arts and Sciences, 1986-

### Grant and Manuscript Reviews

Ad hoc member, NIH Neurological Sciences Study Section (1980; 1984) Special Study Section NINCDS (1982)

Grant Reviews for NSF, Veterans Administration, and U.S. - Israel Binational Science Foundation

Manuscript Reviews for Science, Journal of Neurochemistry, Cell, Experimental Neurology, Behavioral and Brain Sciences, Journal of Cell Biology, Journal of Membrane Biology, Canadian Journal of Physiology and Pharmacology, Biological Bulletin

Associate, Behavioral and Brain Sciences

# Thesis, Dissertation and Postdoctoral Advising

# Committee member:

Janet Zengel	Physiology & Biophysics	PhD	1974
James Pollack	Biochemistry	PhD	1975
Jeff Chesky	"Physiology & Biophysics	PhD	1975
Nadine Weich	Biochemistry	MS	1975
Lynn Eastman	Physiology & Biophysics	PhD	1975
Rosemary Campbell	Physiology & Biophysics	DA	1976
Greg Young	Philosophy	PhD	1976
Marvin Sussman	Physiology & Biophysics	PhD	1977
John Horn	Physiology & Biophysics	PhD	1978
David Beach	Physiology & Biophysics	PhD	1978
Bette Siegel	Physiology & Biophysics	PhD	1979
Andrew Guterman	Pharmacology	PhD	1979
James Corcoran	Pharmacology	PhD	1981
Roger Loutzenhiser	Pharmacology	PhD	1981
Chip Kaufman	Physiology & Biophysics	PhD	1983
Humberto Valdes	Anatomy	PhD	1985
Richard Kadingo	Physiology & Biophysics	PhD	2,05
Guang-shing Perng	Physiology & Biophysics	PhD	
Ellen Klein	Philosophy	PhD	

# Principal Advisor:

Michael E. Hall	Postdoctoral	1976-1979
George C. Stone	Postdoctoral	1976-1979
Evelyn Lopez	M.S.	1977
Gary W. Perry	Postdoctoral	1978-1981
David E. Weil	Postdoctoral	1979-1980
R. Dino Rulli	PhD	1980-1985
Bruce Tedeschi	Postdoctoral	1980-1983
Leonard Gralnik	PhD	1981-1985
(with Dr. John Ba	rrett)	
Susan Krayanek	Postdoctoral	1982-1984

### Recent Invited Presentations

1975 Society for Neurochemistry, Mexico (Invited Lecture)
Topic: Protein synthesis in the R15 neuron

Symposium on Consciousness, Vassar, New York (Invited Lecture)

Topic: On consciousness and physical reality

Yale University, Connecticut (Invited Lecture)
Topic: Protein metabolism and nerve cell function

1977 American Physiological Society Symposium, Florida (Organizer and participant)

Topic: Physiological basis of consciousness

Gordon Conference, New Hampshire (Invited Lecture)

Topic: Protein synthesis during recovery from nerve damage

Radiobiological Research Institute, Maryland (Invited Lecture)
Topic: Mapping protein nervous tissue

10910. Mapping process nervous

1978 Reed College

University of Southern California

University of Chicago

Northwestern University (Invited Lectures)

Topic: Building neurons: from gene regulation to protein destination

American Philosophical Association Washington, D.C. (Invited Lecture)

Topic: The Self and Its Brain, By Popper & Eccles

1979 Gordon Conference, New Hampshire (Invited Lecture)
Topic: Biochemical aspects of nerve regeneration

Electrophoresis conference, Germany (Invited Lecture)
Topic: A method for detecting changes in gene expression

Society for Neuroscience, Georgia (Invited Dinner Lecture) Topic: Testable theories of consciousness

1980 Winter Conference on Brain Research, Colorado (Invited participant, workshop)

Topic: Proteins in axoplasmic transport

- Gordon Conference, New Hampshire (Invited Lecture Symposium Organizer)
  Topic: Protein transport and neural plasticity
- 1982 Sixth Conference on Regeneration in the Central Nervous System, Florida (Invited Speaker)
  Topic: Biochemistry of nerve regeneration
- Conference, Florida State University, (Invited Lecture)
  Topic: The role of axonal transport in nerve regeneration

Rockefeller University, New York (Invited Lecture)
Topic: Supply, routing, and destination of rapidly transported
proteins
University-Industry Technology Transfer Conference, Georgia (Invited

Speaker)
Topic: University-industry relationships

1984 Federal High Tech (NSF/SBA) Conference, Florida (Invited Speaker)
Topic: University/small, high technology business programs

Eastern Student Research Forum, Florida (Banquet Speaker)
Topic: Impact of federal funding on science and graduate education

1985 Gordon Conference, New Hampshire (Invited Discussant)
Topic: Molecular aspects of nerve growth

1986 National Institute on Aging Conference, Chicago (Invited Speaker)
Topic: Biomarkers of aging

1987 Eastern Student Research Forum, Florida (Banquet Speaker)
Topic: Experimental design in biomedical research

Gordon Conference, New Hampshire (Conference Chairperson)
Topic of Conference: Neural plasticity

#### Full Publications

- Geiduscheck, E. P., Brody, E. N., Wilson, D. L. 1968. Some aspect of RNA transcription. In <u>Molecular Associations in Biology</u>, B. Pullman, Ed, Academic Press, New York, pp. 163-182.
- Wilson, D. L., Geiduscheck, E. P. 1969. A template-specific inhibitor of in vitro transcription. Proc. Nat. Acad. Sci. 62:514-520.
- Geiduscheck, E. P., Wilson, D. L., Gage, L. P. 1969. Determinants of gene expression during viral development. <u>J. Cell Physiol.</u> 74: supp. 1, 81-85.
- Ward, S., Wilson, D. L., Gilliam, J. J. 1970. Methods for fractionation and scintillation counting of radioisotope labeled polyacrylamide gels. Anal. Biochem. 38:90-97.
- Wilson, D. L., Gage, L. P. 1971. Appendix: Certain aspects of SPO1 development. J. Mol. Biol. 57:297-299.
- Wilson, D. L. 1971. Molecular weight distribution of proteins synthesized in single, identified neurons of <u>Aplysia</u>. <u>J. Gen. Physiol</u>. 57:26-40.
- Wilson, D. L., Arch., S. 1972. Does memory transfer imply limits on human knowledge? <u>Internat</u>. <u>J. Neurosci</u>. 3:43-44.
- Wilson, D. L., Berry, R. W. 1972. The effects of synaptic stimulation on RNA and protein metabolism in the R2 soma of <u>Aplysia</u>. <u>J. Neurobiol</u>. 3:369-379.
- Berry, R. W., Arch., S., Wilson, D. L. 1973. <u>Aplysia</u> nerve proteins (edited). In <u>Proteins of the Nervous System</u>, D. Schneider, ed., Raven Press, New York 67-71.
- Wilson, D. L. 1974. Protein synthesis and nerve cell specificity. <u>J. Neurochem.</u> 22:465-467.
- Wilson, D. L. 1974. The programmed theory of aging. In <u>Theoretical Aspects of Aging</u>, M. Rockstein, ed., Academic Press, New York pp. 11-21.
- Wilson, D. L. 1975. Memory and retrieval. Medical Hypotheses 1:183-185.
- Wilson, D. L. 1976. Alteration of protein metabolism in individual, identified neurons from <a href="Aplysia.J. Neurobiol.">Aplysia.J. Neurobiol.</a>, 7:407-416.
- Strumwasser, F., Wilson, D. L. 1976. Patterns of proteins synthesized in the R15 neuron of <u>Aplysia</u>: temporal studies and evidence for processing. <u>J. Gen. Physiol.</u> 67:691-702.
- Wilson, D. L. 1976. On the nature of consciousness and physical reality.

  <u>Perspect. Biol. Med.</u> 19:568-581.

- Wilson, D. L. 1977. Gene expression and protein metabolism in individual neurons of <u>Aplysia</u>. In <u>The Biochemistry of Characterized Neurons</u>, N. Osborne, ed., Pergamon press, New York, pp. 261-281.
- Wilson, D. L., Hall, M. E., Stone, G. C., Rubin, R. W. 1977. Some improvements in two-dimensional gel electrophoresis of proteins: Protein mapping of eucaryotic tissue extracts. <a href="mailto:Anal.Biochem.">Anal.Biochem.</a> 83:33-44.
- Wilson, D. L. 1978. Brain Mechanisms, consciousness, and introspection. In <a href="Expanding Dimensions of Consciousness">Expanding Dimensions of Consciousness</a>, A. A. Sugerman and R. E. Tarter, eds., Springer, New York, pp. 3-23.
- Stone, G. C., Wilson, D. L., Hall, M. E. 1978. Two-dimensional gel electrophoresis of proteins in rapid axoplasmic transport. <u>Brain Res.</u> 144:287-302.
- Wilson, D. L., Hall, M. E., Stone, G. C. 1978. Test of some aging hypotheses using two-dimensional protein mapping, <u>Gerontology</u> 24:426-433.
- Hall, M. E., Wilson, D. L., Stone, G. C. 1978. Changes in synthesis of specific proteins following axotomy: detection with two-dimensional gel electrophoresis. J. Neurobiol, 9:353-366.
- Wilson, D. L. 1978. Neurobiology and epistemology. <u>Federation Proc.</u> 37:2275-2280.
- Wilson, D. L. 1979. Building Neurons: from gene expression to protein destination. <u>Trends in Biochem, Sci.</u> 3:230-232.
- Stone, G. C., Wilson, D. L. 1979. Qualitative analysis of proteins rapidly transported in ventral horn motoneurons and bidirectionally from dorsal root ganglia. J. Neurobiol, 10: 1-12.
- Hall, M. E., Wilson, D. L. 1979. Modification of protein synthesis by deafferentation of rat sympathetic ganglia. <a href="Brain Res."><u>Brain Res.</u></a> 168:414-418.
- Wilson, D. L., Stone, G. C. 1979. Axoplasmic transport of proteins. Ann. Rev. Biophys. Bioengineer, 8:27-45.
- Stone, G. C., Wilson, D. L., Perry, G. W. 1980. The quantitation of radioactively labeled proteins on two-dimensional gels: tests of a method for analyzing changes in protein synthesis and gene expression.

  <u>Electrophoresis 79</u>, B. Radola, ed., Walter de Gruyter, Berlin pp. 361-383.
- Tedeschi, B., Wilson, D. L., Zimmerman, A., Perry, G. W. 1981. Are axonally transported proteins released from sciatic nerves? <u>Brain</u> <u>Res.</u> 211:175-178.
- Perry, G. W., Wilson, D. L. 1981. Protein synthesis and axonal transport during nerve regeneration. J. Neurochem. 37:1203-1217.
- Perry, G. W., Wilson, D. L. 1982. On the identification of the alpha and beta subunits of tubulin <u>J. Neurochem.</u> 38:1155-1159.

- Hall, M. E., Wilson, D. L. 1982. Nerve growth factor effects on protein synthesis after nerve damage. <u>Exp. Neurology</u>. 77:625-633.
- Wilson, D. L. 1982. Two-dimensional gel electrophoresis of proteins. <u>Handbook of Neurochemistry</u>, 2nd edition, vol. 2, A. Lajtha, ed., Plenum, New York pp. 133-146.
- Perry, G. W., Krayanek, S. R., Wilson, D. L. 1983. Protein synthesis and rapid axonal transport during regeneration of dorsal roots. <u>J. Neurochem.</u> 40:1590-1598.
- Perry, G. W., Wilson, D. L. 1983. Polypeptides in frog and rat: Evolutionary changes in rapidly transported and abundant nerve proteins. J. Neurochem. 41:772-779.
- Tedeschi, B. W., Wilson, D. L. 1983. Modification of rapidly transported protein in regenerating nerve. J. Neurosci. 3:1728-1734.
- Tedeschi, B. W., Wilson, D. L. 1984. Are different proteins synthesized in distinct domains in a neuron? <u>J. Neurobiology</u> 15:1-11.
- Wilson, D. L. 1984. Molecular events associated with peripheral nerve regeneration. In <u>Axonal Transport in Neuronal Growth and Regeneration</u>, John Elam and Paul Cancalon, eds., Plenum, New York pp. 137-144.
- Rulli, R. D., Wilson, D. L. 1985. Proteins in fast axonal transport are differentially transported in branches of sensory nerves. <u>Brain Research</u> 335:165-168.
- Tedeschi, B. W., Wilson, D. L. 1986. The destination and modification of fast-transported proteins in normal and regrowing nerve. In <u>Axoplasmic Transport</u>, Z. Iqbal, ed., CRC Press, Boca Raton. pp. 263-273.
- Rulli, R. D., Wilson, D. L. 1987. Destinations of some fast-transported proteins in sensory neurons of bullfrog sciatic nerve. <u>J. Neurochem.</u> 48:134-140.
- Tedeschi, B. W., Wilson, D. L. 1987. Subsets of axonally transported and periaxonal polypeptides are released from regenerating nerve. <u>J. Neurochem.</u> 48:463-469.
- Perry, G. W., Krayanek, S. R., Wilson, D. L. 1987. Effects of a conditioning lesion on bullfrog sciatic nerve regeneration; analysis of fast axonally transported proteins. <u>Brain Research</u> 423: 1-12.
- Wilson, D. L. 198\_. Aging hypotheses, aging markers, and the concept of biological age. <u>Experimental Gerontology</u> (accepted)

- Abstracts, Book Reviews, etc.
- Wilson, D. L. (1967) Early mRNA synthesis <u>in vitro</u> on two bacteriophage DNA templates with homologous and heterologus RNA polymerase (Cold Spring Harbor meetings) <u>Phage Information Service</u> p. 101.
- Gage, L. P., Wilson, D. L., Geiduschek, E. P. (1967) Transcription in bacteriophage SPO1 development. <u>Feder</u>, <u>Proc.</u> 26:873.
- Wilson, D. L., Geiduschek, E. P. (1968) <u>In Vitro</u> studies on a template-specific inhibitor of RNA synthesis (Cold Spring Harbor meetings) <u>Phage Information Service</u> p. 76.
- Wilson, D. L., Geiduschek, E. P. (1969) A template specific inhibitor of RNA synthesis. <u>Biophysical J.</u> 9 A-84.
- Wilson, D. L. (1970) Book review (<u>Handbook of Neurochemistry 2</u>. A. Lajtha, ed.) <u>Amer. Scientist</u> 58:435.
- Wilson, D. L. (1971) Two Kinds of perpetual motion. Science 174:1079.
- Wilson, D. L., Strumwasser, F. (1975) Protein metabolism and nerve cell function: Studies on the R15 neuron from <u>Aplysia</u>. <u>Trans. Amer. Soc. Neurochem.</u> 6:73.
- Hall, M. E., Wilson, D. L., Stone, G. C. (1977) Changes in protein metabolism following axotomy. <u>Neuroscience Abstracts</u> 3:32.
- Wilson, D. L., Hall, M. E., Stone, G. C. (1977) Aging theories: tests by twodimensional protein mapping of nervous tissue. <u>Neuroscience Abstracts</u> 3:123.
- Stone, G. C., Wilson, D. L., Hall, M. E. (1977) Two-dimensional mapping of proteins in rapid axoplasmic transport. <u>Neuroscience Abstracts</u> 3:32.
- Wilson, D. L. (1978) Physiological basis of mental functions: introduction. <u>Federation Proc.</u> 37:2262.
- Stone, G. C., Wilson, D. L. (1978) Similar proteins are transported in dorsal root sensory neurons and ventral horn motoneurons. <u>Soc. Neuroscience Abstracts</u> 4:37.
- Hall, M. E., Wilson, D. L. (1978) Two-dimensional mapping of proteins from rat sympathetic ganglia: changes in synthesis rates following deafferentation and axotomy. <u>Soc. Neuroscience Abstracts</u> 4:473.
- Wilson, D. L. (1978) Book reviews: Neurobiology and mind. SISTM Quarterly 1:44.
- Wilson, D. L. (1978) Brain mechanisms, consciousness and introspection. <u>SISTM</u>
  <u>Ouarterly</u> 2:6.

Hall, M. E., Wilson, D. L. (1979) Proteins synthesized in sympathetic ganglia following axotomy and nerve factor treatment. <u>Soc. Neuroscience Abstracts</u> 5:627.

- Wilson, D. L. (1979) Commentary: Restricted extracellular pathways for molecular communication? Behavioral and Brain Sciences 2:439-440.
- Wilson, D. L. (1980) Book review (<u>Brain and Mind</u>, Ciba foundation symposium) <u>Contemporary Psychology</u> 25:1008-1009.
- Perry, G. W., Wilson, D. L. (1980) Protein synthesis and axonal transport following peripheral nerve damage. <u>Soc. Neuroscience Abstracts</u> 6:94.
- Perry, G. W., Wilson, D. L. (1981) Comparison of rapidly transported proteins in frog and rat sensory neurons. <u>Soc. Neuroscience Abstracts</u> 7:486.
- Tedeschi, B., Wilson, D. L. (1982) Modification of a rapidly transported protein in regenerating nerves. <u>Transactions of the American Soc. for Neurochem.</u> 13:225.
- Dew, D. K., Verdeja, J. C., Shebert, R. T., Ayyar, D. R., Freeman, C. B. T., Wilson, D. L., Freeman, R. H. (1982) Carbon dioxide laser is successful in repair of transacted rat sciatic nerves. <u>Neurology</u> 32:A132.
- Tedeschi, B., Wilson, D. L. (1982) Are different proteins synthesized in distinct domains in a neuron? <u>Soc. Neuroscience Abstracts</u> 8:690.
- Wilson, D. L. (1983) Commentary: A proposed experimental test of Pucetti's dual consciousness hypothesis. <u>Behavioral and Brain Sciences</u> 4:735.
- Wilson, D. L. (1983) Book review (<u>Axoplasmic Transport</u>, D. G. Weiss, ed., Springer-Verlag) <u>Science</u> 220:709-710.
- Tedeschi, B., Wilson, D. L. (1983) Release of fast-transported proteins from regenerating nerve. <u>Soc. Neuroscience Abstracts</u> 8:48.
- Wilson, D. L., Tedeschi, B. (1983) Release of non-neural proteins from regenerating nerve. <u>Soc. Neuroscience Abstracts</u> 8:48.
- Rulli, R. D., Wilson, D. L. (1983) Selective routing of fast transported proteins in branches of sensory axons. <u>Soc. Neuroscience Abstracts</u> 8:148.
- Gralnik, L. M., Barrett, J. N., Wilson, D. L. (1983) Proteins from conditioned media bind to neurons. <u>Soc. Neuroscience Abstracts</u> 8:837.
- Perry, G. W., Tedeschi, B., Wilson, D. L. (1985) Early appearance of A25 (a modified rapidly transported polypeptide) in frog sciatic nerve following damage, and the effects of a conditioning lesion. <u>Soc. Neuroscience Abstracts</u> 11:420.
- Wilson, D. L. (1986) Scotophobin resurrected as neuropeptide. Nature 320:313-314.

Rulli, R. D., Wilson, D. L. (1987) Destinations of some fast-transported proteins. <u>Journal of Neurochemistry</u> 48:134-140.

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- Tedeschi, B., Wilson, D. L. (1987) Subsets of axonally transported and periaxonal polypeptides are released from regenerating nerve. <u>Journal of Neurochemistry</u> 48:463-469.
- Perry, G. W., Krayanek, S. R., Wilson, D. L. (1987) Effects of a conditioning lesion on nerve regeneration. <u>Brain Research</u> 423:1-12.
- Wilson, D. L. (1988) Aging hypotheses, aging markers, and the concept of biological age. <u>Experimental Gerontology</u> (to appear).

#### VITAE

### Michael H. Antoni 8520 S. W. 133 Avenue Road, #123 Miami, Florida 33156 (305) 284-4186

Birth Date:

· - - -

November 20, 1955

Providence, RI

**Marital Status:** 

Married U.S.

Citizenship: Health:

Excellent

**EDUCATION** 

August, 1986

Completion of APA-approved Clinical Internship: Miami VAMC

August, 1986

Ph.D. - Clinical Psychology

University of Miami, Coral Gables, FL

May, 1981

M.A. - Psychology

Connecticut College, New London, CT

May, 1979

B.A. - Psychology/Chemistry

University of Rhode Island, Kingston, RI

Master's Thesis completed, 1981:

Antoni, M. H.: Life stress, social supports, and physical illness in Navy personnel.

Dissertation defended, 1985:

Antoni, M. H.: Life stress, and moderator variables in the promotion and persistance of Cervical Intraepithelial Neoplasia.

## CLINICAL AND FIELD EXPERIENCE

1987

Acquired license in Clinical Psychology: State of Florida

1986 - 1987 Private Practice (Part-Time)

A & A Counseling Associates, Miami, FL

1985 - 1986 APA-Approved Clinical Internship: Miami VMAC, Miami, FL

Internship involved training in three specialty areas: Health Psychology/Behavioral

Medicine, Neuropsychology and Substance Abuse/Addictions (2000 hours)

Health Psychology/Behavioral Medicine - six month rotation involving medical/ surgical consultation in departments of Cardiology, Urology, Spinal Cord Injury and Neurology. Special emphasis on coronary risk factor modification, smoking cessation, stress management, and cardiac rehabilitation for coronary bypass

### Clinical and Field Experience (continued)

patients; differential diagnosis of organic/psychogenic erectile dysfunction, assessment of pre- and post-surgery psychological status of Urology in-patients, behavioral sex therapy for patients and spouse (Urology in-patients and outpatients); supportive therapy and rehab planning for Spinal cord-injured patients; and EMG/Temp. biofeedback training for Migraine headache and Raynaud's (Neurology) patients.

Neuropsychology - three month rotation involving basic Neuropsychology and Neuropsychological Assessment. Emphasis was on Halstead-Reitan battery in differential diagnosis of organic and functional impairment. Rotation included regular attendance at Neurology rounds (VA), Neurology grand rounds (JMH) and autopsy/brain-cuttings (VA; JMH) and Neuropsychology seminar.

Substance Abuse/Addictions - three month rotation involving in-patient treatment facility at Veterans Hospital. Experiences included daily psychodynamic group therapy, teaching stress management classes and conducting assertiveness training groups. This rotation also involved a regular individual therapy caseload with intensive supervision. A final component of this experience involved vocational rehabilitation and placement for graduating patients.

1984-1985 Practicum - Dade Youth and Family Development, Miami, FL (300 hours)

Supervisor: Daniel Fairchild, Ph.D., Administrative Head

Division of Psychological Services

1984 - 1985 <u>Training Supervisor</u> - Psychological Services Center, University of Miami, Coral Gables, FL (350 hours)

Supervisor: Catherine Green, Ph.D. Director Psychological Services Center

1983 - 1984 Practicum - Psychological Services Center, University of Miami, Coral Gables, FL (400 hours)

Supervisor: Catherine Green, Ph.D., Director Psychological Services Center

1981 -1982 Clinical Biofeedback - Department of Orthopedics, Division of Rehabilitation Psychology, Jackson Memorial Hospital, Miami, FL (150 hours)

Supervisor: Bernard Brucker, Ph.D., Chief Psychologist Division of Rehabilitation Psychology

### **WORK EXPERIENCE**

1986 - 1987 <u>Behavioral Medicine Consultant</u> - Department of Psychological Services, Miami VAMC, Miami, FL

### Work Experience (continued)

Non-funded position involved coordination of research between Nova doctoral candidates in clinical psychology and the departments of Psychological Services, Patient Education, Cardiology, and Oncology. Responsibilities included research design and establishing liaison between hospital personnel necessary for implementation of research projects by Nova University.

1985 - 1986 Research Group Coordinator - Cardiac Rehabilitation, Miami VAMC

Supervisor: Mark D. Ackerman, Ph.D.

Psychological Services, Miami VAMC

1983 - 1987 <u>Consulting Psychologist/Statistical-Computer Consultant</u> - Grant Psychiatric Center, Miami, FL

Supervisor: Richard Toister, Ph.D.

Division of Psychiatric Services, Grant Center

1985 - 1986 Consultant for Educational Software design - Rothchild Research and Development, Miami, FL

1984 - 1986 Research Assistant - Clinical Assessment Study, University of Miami, Coral Gables, FL

Supervisor:

Theodore Millon, Ph.D., Director

Clinical Psychology Training Program

University of Miami

1982 - 1984 Research and Clinical Assessment - Department of Gynecological Oncology, Jackson Memorial Hospital, Miami, FL

Supervisor:

Berndt-Uwe Sevin, M.D., Ph.D.

Department of Gynecological Oncology

Jackson Memorial Hospital

1983 Research Coordinator - Dade County Health Fair, Miami, FL

Supervisor: Jack Tapp, Ph.D.

Professor of Psychology

Nova University Ft. Lauderdale, FL

1982 - 1983 Research Assistant - Study of self-awareness, self-expectancy, and performance in college students. University of Miami, Coral Gables, FL

Supervisor: Charles S. Carver, Ph.D.

Professor of Psychology University of Miami

### Work Experience (continued)

1982 Research Assistant - EMG biofeedback, personality, and functional outcome in

cerebral-vascular accident patients.

Supervisor: Bernard Brucker, Ph.D.

Department of Rehabilitation Psychology

Jackson Memorial Hospital

Miami, FL

1981 Research Assistant - Type A Assessment Study

Supervisor: Neil Schneidrman, Ph.D., Director

Behavioral Medicine Program

University of Miami

1979 - 1981 Research Assistant - Study of life stress in Navy submarine personnel, Groton

Nuclear Submarine Training Base, Groton, CT

Supervisor: Irwin G. Sarason, Ph.D.

Professor of Psychology University of Washington

Seattle, WA

### **TEACHING EXPERIENCE**

1987 Assistant Professor of Psychology - University of Miami

1986 - 1987 Assistant Professor of Psychology - Nova University Center for Psychological

Studies, Ft. Lauderdale, FL

Responsibilities involved teaching graduate courses in physiological psychology, behavioral medicine, and behavior modification. Additional responsibilities included research supervision, research and publication, dissertation committee

membership, and administrative duties.

1983 - 1985 Instructor - Statistical Methods in the Behavioral Sciences, University of Miami

Supervisor: Robert Tallarico, Ph.D., Director

Undergraduate Studies

### **OTHER TEACHING EXPERIENCE**

1983 - 1984 Tutoring - Statistics and Computer Analysis

1981 - 1982 Music Lessons - Private

Part-time piano teacher in studio.

### **PROFESSIONAL AFFILIATIONS**

Association for the Advancement of Health Society of Behavioral Medicine Association Advancement Behavior Therapy (AABT) American Psychological Association (Division 38) Neuroimmunomodulation (NIM) Phi Kappa Phi Honor Society American Association for the Advancement of Science Society for Personality Assessment International Psycho-Oncology Society

### **ADVANCED COURSEWORK**

Clinical Assessment:

General Clinical Assessment

Psychological Assessment of Physical Disorder

Advanced Adult Assessment (projectives)

Neuropsychological Assessment

Personality/Psychopathology:

General Psychopathology

Experimental Psychopathology and Psychosomatics

Psychotherapy:

Introduction to Clinical Methods

Psychotherapy and Behavior Modification I

Psychotherapy and Behavior Modification II

Health Psychology Interventions

Behavioral Medicine:

Psychophysiology

Psychobiology

Behavioral Medicine

Social Psychology of Health and Disease

Seminar in Behavioral Medicine: Behavioral Interventions

Chronic Disease Epidemiology Research Techniques

# **CONFERENCES AND SEMINARS**

198 <b>7</b>	Symposium on Current Concepts in Psycho-oncology, MSKCC, New York, NY
1987	Ninth Annual Society of Behavioral Medicine Conference, Washington, DC
1986	Fourth Annual Workshop on Aging - Dr. Carl Eisdorfer, Miami VMAC, Miami, FL
1986	Eighth Annual Society of Behavioral Medicine Conference, San Francisco, CA
1986	Millon Inventories Conference and Workshop, Miami Beach, FL
1985	Family Systems Workshop - Dr. Salvador Minuchin, Miami, FL
1984	Neuroimmunomodulation Conference, Dr. Herbert Spector, New York, NY
1984	Symposium on Stress, Dr. Neil Schneiderman, Miami, FL
1983	Symposium on Stress, Dr. Neil Schneiderman, Miami, FL
1981	Annual Conference for Society of Behavioral Medicine, New York, NY

### OTHER EXPERIENCES AND ACTIVITIES

1986 - 1987 Journal Reviewer: Journal of Personality Assessment

1986 - 1987 Journal Reviewer: Psychology and Health: an International Journal

1987 <u>Journal Reviewer</u>: Journal of Personality Disorders

### **PUBLICATIONS**

- Antoni, M. H., & Goodkin, K. (in press). Life stress and moderator variables in the promotion of cervical neoplasia. I: Personality facets. *Journal of Psychosomatic Research*.
- Antoni, M. H. (1987). Neuroendocrine influences in psychoimmunology and neoplasia: A review. Psychology and Health: An International Journal, 1, 3-24.
- Antoni, M. H. (1986). The use of the MBHI in a cervical cancer population. *Proceedings of the Millon Clinical Inventories Conference*, March, National Computer Service.
- Antoni, M. H. (1986). Life stress, moderator variables and the promotion and persistance of cervical intraepithelial neoplasia to invasive cervical cancer. Unpublished doctoral dissertation.
- Antoni, M. H. (1985). Temporal relationship between life events and two illness measures: A cross-lagged panel analysis. *Journal of Human Stress*, Spring, 21-26.
- Antoni, M. H., Levine, J., Tischer, P., Green, C., & Millon, T. (1987). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part V: MMPI 78/87. Journal of Personality Assessment, 51(3), 375-387.
- Antoni, M. H., Tischer, P., Levine, J., Green, C., & Millon, T. (1985). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part I: MMPI 28/82. Journal of Personality Assessment, 49(4), 392-398.
- Antoni, M. H., Tischer, P., Levine, J., Green, C., & Millon, T. (1985). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part III: MMPI 24/42. Journal of Personality Assessment, 49(5), 508-515.
- Antoni, M. H., Levine, J., Tischer, P., Green, C., & Millon, T. (1986). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part IV: MMPI 98/89. Journal of Personality Assessment, 50(1), 65-72.
- Carver, C. S., Antoni, M. H., & Scheier, M. F. (1985). Self-consciousness and self-assessment. Journal of Personality and Social Psychology, 48, 114-121.
- Goodkin, K., Antoni, M. H., & Blaney, P. H. (1986). Stress and hopelessness in the promotion of cervical intraepithelial neoplasia to invasive squamous cell carcinoma of the cervix. *Journal of Psychosomatic Research*, 30(1), 67-76.
- Levine, J., Tischer, P., Antoni, M., Green, C., & Millon, T. (1985). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part II: MMPI 27/72. Journal of Personality Assessment, 49(4), 501-507.

### Publications (continued)

- Millon, T., Millon, C., & Antoni, M. (1986). Sources of emotional and mental disorders among psychologists: A career development perspective. In American Psychological Association (Ed.), *Psychologists in distress*. Washington, DC: APA Press, pp. 119-136.
- Sarason, I. G., Potter, E. H., Antoni, M. H., & Sarason, B. R. (1985). Life events, social support and illness. *Psychosomatic Medicine*, 47(2), 156-163.
- Sarason, I. G., Potter, E. H., Antoni, M. H., & Sarason, B. R. (1982). Life events, social support and illness. (CO-ONR-006) Office of Naval Research, Virginia: Organizational Effectiveness Research Program (Code 442), August 3, 1982 (NOOO14-80-C-0522, NR 170-908).

### **MANUSCRIPTS UNDER REVIEW**

- Antoni, M. H., & Goodkin, K. (1987). Internal and external host variables in the promotion of cervical neoplasia. *Journal of Psychosocial Oncology*.
- Antoni, M. H. (1987). Assessment of two measures of social support as moderators of the life event-physical symptom relationship. *Psychology and Health: An International Journal*.
- Antoni, M. H., Levine, J., Tischer, P., Green, C., & Millon, T. (1987). Refining personality assessments by combining MCMI high point profiles with MMPI codes, Part VI: MMPI 46/64. Journal of Personality Assessment
- Antoni, M. H., Green, C., Sandberg, M., & Millon, T. (1987). On the relationship between the DSM-III and the Millon Clinical Multiaxial Inventory. *Journal of Personality Assessment*.

#### MANUSCRIPTS IN PREPARATION

- Antoni, M. H., & Goodkin, K. Life stress and moderator variables in the promotion of cervical neoplasia. II: Life event dimensions.
- Antoni, M. H., & Goodkin, K. Life stress and moderator variables in the promotion of cervical neoplasia. III: External assets.
- Kolitz, S., & Antoni, M. H. Personality style and immediate help-seeking responses following the onset of myocardial infarction.

### ABSTRACTS UNDER REVIEW

Antoni, M. H., & Goodkin, K. Life stress and hostmoderator variables in the promotion of cervical intraepithelial neoplasia. Paper submission for Tenth annual scientific meeting of Society of Behavioral Medicine, 1988.

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### Abstracts Under Review (continued)

- Ackerman, M. D., Antoni, M. H., & Helder, L. M. Predictors of psychological distress among aging men experiencing erectile dysfunction. Paper submission for Tenth annual scientific meeting of Society of Behavioral Medicine, 1988.
- Ironson, G., O'Hearn, P., Laperriere, A., Antoni, M., Ashman, M., Schneiderman, N., & Fletcher, M. News of HIV antibody status and immune function in healthy gay males. Paper submission for Tenth annual scientific meeting of Society of Behavioral Medicine, 1988.

### **RESEARCH FUNDING**

- Antoni, M. H. (1987). Modulation of cellular immunity in an AIDS high risk group via biofeedback-assisted relaxation training BRSG, S07, RR07022-20 awarded by Biomedical Research Support Program, Division of Research Resources, National Institues of Health. Award = \$4,770.
- Antoni, M. H. (1987). Effects of biofeedback-assisted relaxation and psychosocial intervention on the incidence of CIN in a high risk group. General Research Support Award, Research & Sponsored Programs, University of Miami. Award = \$2,000.
- Antoni, M. H. (1987). Modulation of cellular immunity in an AIDS high risk group via biofeedback-assisted relaxation intervention. Summer Award in Business and the Social Sciences, Research & Sponsored Programs, University of Miami. Award = \$5,000.

### **FUNDING PROPOSALS IN PREPARATION**

Antoni, M. H. (P.I.). Psychosocial factors in the promotion of cervical intraepithelial neoplasia. To be submitted for First Independent Research Support and Transition Award, National Institute of Mental Health (2/1/88).

#### **CURRICULUM VITAE**

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1962

B.S.

**Biology** 

Spring Hill College, Mobile, Alabama

1978

M.A.

General Studies with specialization of community health education

Towson State University, Towson, Maryland

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Ph.D.

Medical Psychology

Uniformed Services University of Health Sciences

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### PROFESSIONAL EMPLOYMENT AND EXPERIENCE:

1985 - present

Assistant Professor, Department of Psychology

University of Miami

1980 - 1985

Teaching/Research Associate (with D.S. Krantz, Ph.D.),

**Uniformed Services University** 

1978 - 1980

Instructor, Department of Health

East Tennessee State University

#### PROFESSIONAL ACTIVITIES AND SOCIETIES:

Member, American Psychological Association

Student Member, American Psychological Association, Program Committee, 1982, Division 38 (*Health Psychology*)

Program Committee, Society for Behavioral Medicine, 1983

Host Committee, Society for Psychophysiological Research, 1981

Ad hoc reviewer, Health Psychology

VITAE Lynn A. Durel Page 2

#### **MAJOR AREAS OF INTEREST:**

Biobehavioral factors in cardiovascular disease and in emotion Cardiovascular and neuroendocrine reactivity to stress Effects on mood and behavior of beta-adrenergic blocking drugs Behavioral pharmacology Health of women Behavioral sciences in medical education

#### **PUBLICATIONS:**

- Patton, R. D., Walker, H. B., Durel, L. A., McMahan, E. L., Murphy, E. P., & Wilson, C. C. (1980). Society for public health education: Survey of membership. *Health Education Quarterly*, 7, 35-55.
- Krantz, D. S., Durel, L. A., Davia, J. E., Shaffer, R. T., Arabian, J. M., Dembroski, T. M., & MacDougall, J. M. (1982). Propranolol medication among coronary patients: Relationship to Type A behavior and cardiovascular response. *Journal of Human Stress*, 8(3). 4-12.
- Krantz, D. S., & Durel, L. A. (1983). Psychobiological substrates of the Type A behavior pattern. *Health Psychology*, 2(4), 393-411.
- Krantz, D. S., Durel, L. A., Singer, J. E., & Gatchel, R. J. (1983). Teaching psychology in the medical curriculum: Student's perceptions of a basic science course in medical psychology, 10(3), 149-153.
- Durel, L. A., Krantz, D. S., Eisold, J., & Lazar, J. D. (1985). Behavioral effects of beta-blockers: Reduction of anxiety, acute stress, and Type A behavior. *Journal of Cardiopulmonary Rehabilitation*, *5*(6), 267-273.
- Durel, L. A., & Krantz, D. S. (1985). The possible effects of beta-adrendergic blocking drugs on behavioral and psychological concomitants of anger. In: M. A. Chesney, & R. H. Rosenman (Eds.), <u>Anger and hostility in cardiovascular and behavioral disorders</u>. New York: Hemisphere/McGraw-Hill.
- Durel, L. A., Krantz, D. S., & Barrett, J. E. (1986). The antianxiety effect of beta-blockers on punished responding. *Pharmacology Biochemistry and Behavior*, *25*, 371-374.
- Krantz, D. S., Contrada, R. J., La Riccia, P. J., Anderson, J. R., Durel, L. A., Dembroski, T. M., & Weiss, T. (in press). Effects of beta-adrenergic stimulation and blockade on cardiovascular reactivity, affect, and Type A behavior. *Psychosomatic Medicine*.

### PRESENTATIONS AND PUBLISHED ABSTRACTS:

Durel, L. A., Krantz, D. S., Arabian, J. M., Davia, J. E., Shaffer, R. T., Dembroski, T. M., & MacDougall, J. M. (1982). Type A behavior and cadiovascular response: Relationship to propranolol meication. Paper presented at the annual meeting of the American Psychological Association, Washington, DC, August.

### PRESENTATIONS AND PUBLISHED ABSTRACTS: (continued)

- Krantz, D. S., & Durel, L. A. (1982). Bi-directional relationships between cardiovascular reactivity and Type A behavior. Symposium on Assessment of Type A and Other Coronary-prone Behavior Patterns. American Psychological Association Annual Meeting, Washington, DC, August.
- Krantz, D. S., Durel, L. A., Davia, J. E., Shaffer, R. T., Arabian, J. M., Dembroski, T. M., & MacDougall, J. M. (1982). Propranolol, cardiovascular response, and Type A behavior in coronary patients. Presented at the annual meeting of the Society for Psychophysiological Research, Minneapolis, September, *Psychophysiology*, 19(5). (Abstract)
- Durel, L. A. (1982). Symptoms, cardiovascular disorders, and anxiety. Paper presented at the annual meeting of the District of Columbia Psychological Association, Washington, DC, December.
- Krantz, D. S., Contrada, R. J., La Riccia, P. J., Durel, L. A., Anderson, J. & Weiss, T. (1985). Effects of acute beta-adrenergic stimulation and blockade of cardiovascular reactivity and affect ratings. *Psychosomatic Medicine*, 47(1), 82-83. (Abstract)
- Durel, L. A., Krantz, D. S., & Barnett, J. E. (1985). The antianxiety effect of beta-blockers on punished responding. Presented at the annual meeting of the American Psychosomatic Society, Washington, DC, March, *Psychosomatic Medicine*, 47(1), 78. (Abstract)

#### **TEACHING EXPERIENCE:**

#### Courses

Introduction to Psychology as a Social Science Psychopharmacology Drugs and Behavior Psychology of Medicine Personal Health Introduction to Community Health Health of Women

#### Lectures/Seminars

Psychopharmacology of anxiety
The effects of beta-blockers on mood and behavior
Theories of Anger
Psychosomatic aspects of angina pectoris

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A.B., Brown University, Providence, Rhode Island, 1969

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Major area of concentration: Experimental Personality and Social Psychology

#### PROFESSIONAL EXPERIENCE:

Postdoctoral Research Associate (with David C. Glass), Department of Psychology, University of Texas at Austin, 1974-1975

Assistant Professor, Department of Psychology, University of Miami, 1975-1979 Associate Professor, Department of Psychology, University of Miami, 1979-1982

Professor, Department of Psychology, University of Miami, 1982-present

Guest Professor, Max-Planck-Institut für Psychologische Forschung, München, Federal Republic of Germany, summer 1983

#### PROFESSIONAL MEMBERSHIPS:

American Psychological Association Society for Experimental Social Psychology Eastern Psychological Association Society for Test Anxiety Research Psychonomic Society Sigma Xi

#### **GRANT AWARDS:**

National Institute of Health Biomedical Sciences Support Grant (Institutional), 1975-1976 National Institute of Health Biomedical Sciences Support Grant (Institutional), 1977-1978 National Science Foundation grant BNS-8107236, 1981-1984, "Self-Attention, Expectancy,

and Behavioral Regulation," total costs \$64,815

National Science Foundation grant BNS-8414601, 1984-1987, "A Control-Theory Approach to Social Anxiety," total costs \$121,063

National Institute on Alcohol Abuse and Alcoholism grant AA06047-01, 1985-1989, "Predicting Relapse Following Alcoholism Treatment," total costs \$461,956

[Collaborating Investigator] National Heart, Lung, and Blood Institute Program Project grant mmmmmm, 1986-1991, "Psychophysiology of Cardiovascular Reactivity," Neil Schneiderman PI.

National Science Foundation Grant, BNS 8717783, 1987-1990, "Dispositional Optimism, Coping, and Stress: Extensions and Mechanisms of Operation," total costs \$171,862

#### **EDITORIAL EXPERIENCE:**

Action Editor, Journal of Personality and Social Psychology, July 1978 through June 1979. Consulting Editor, Journal of Personality and Social Psychology, 1985.

Consulting Editor, Cognitive Therapy and Research, 1986-present.

Editorial consultant for Psychological Review, Journal of Personality and Social Psychology, Journal of Experimental Social Psychology, Psychological Bulletin, Journal of Research in Personality, Cognitive Therapy and Research, Journal of Abnormal Psychology, Journal of Personality, Personality and Social Psychology Bulletin, Health Psychology, Journal of Applied Social Psychology, Basic and Applied Social Psychology, Social Psychology Quarterly, European Journal of Social Psychology, Psychology and Health, Science, Human Relations, Behavioral and Brain Sciences, American Psychologist

#### **CURRENT RESEARCH INTERESTS:**

Situational self-awareness and dispositional self-consciousness, and their role in both functional and dysfunctional aspects of behavioral self-regulation; Optimism as a mediator of effective self-management in a variety of domains, including health-related behaviors; Stress and coping processes; Test anxiety, social anxiety, and processes by which their experiential and behavioral consequences are mediated; Cognitive processes in depression

#### **TEACHING INTERESTS:**

Introductory psychology; Personality psychology; Social psychology; The self in self-regulation

#### **PUBLICATION:**

- Buss, A. H., Plomin, R., & Carver, C. S. (1973). Delay, frustration, and aggression. *Psychological Reports*, 32, 1074.
- Carver, C. S. (1974). Facilitation of physical aggression through objective self-awareness. Journal of Experimental Social Psychology, 10, 365-370.
- Carver, C. S. (1975). Physical aggression as a function of objective self-awareness and attitudes toward punishment. *Journal of Experimental Social Psychology*, 11, 510-519.
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- Carver, C. S., & Blaney, P. H. (1977). Avoidance behavior and perceived arousal. *Motivation and Emotion*, 1, 61-73.
- Neumann, P. G., Carver, C. S., & Scheier, M. F. (1977). An apparatus for varying self-awareness while presenting visual stimuli. *Behavior Research Methods and Instrumentation*, 9, 55.
- Carver, C. S., Glass, D. C., Snyder, M. L., & Katz, I. (1977). Favorable evaluations of stigmatized others. *Personality and Social Psychology Bulletin*, 3, 232-235.
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- Scheier, M. F., Carver, C. S., Schulz, R., Glass, D. C., & Katz, I. (1978). Sympathy, self-consciousness, and reactions to the stigmatized. *Journal of Applied Social Psychology*, 8, 270-282.
- Carver, C. S., & Scheier, M. F. (1978). We do it all with mirrors: Identification of homo vampyrus by means of a self-awareness inducing stimulus. Worm Runner's Digest, 20, 114-115.
- Gibbons, F. X., Carver, C. S., Scheier, M. F., & Hormuth, S. (1979). Self-focused attention and the placebo effect: Fooling some of the people some of the time. *Journal of Experimental Social Psychology*, 15, 263-274.
- Carver, C. S., Gibbons, F. X., Stephan, W. G., Glass, D. C., & Katz, I. (1979). Ambivalence and evaluative response amplification. *Bulletin of the Psychonomic Society*, 13, 50-52.
- Carver, C. S., Blaney, P. H., & Scheier, M. F. (1979). Focus of attention, chronic expectancy, and responses to a feared stimulus. *Journal of Personality and Social Psychology*, 37, 1186-1195.
- Carver, C. S. (1979). A cybernetic model of self-attention processes. *Journal of Personality and Social Psychology*, 37, 1251-1281.
- Scheier, M. F., Carver, C. S., & Gibbons, F. X. (1979). Self-directed attention, awareness of bodily states, and suggestibility. *Journal of Personality and Social Psychology*, 37, 1576-1588.
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- Carver, C. S., DeGregorio, E., & Gillis, R. (1980). Field-study evidence of an ego-defensive bias in attribution among two categories of observers. *Personality and Social Psychology Bulletin*, 6, 44-50.
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- Diamond, E. L., & Carver, C. S. (1980). Sensory processing, cardiovascular reactivity, and the Type A coronary-prone behavior pattern. *Biological Psychology*, 10, 265-275.
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- Carver, C. S., & Scheier, M. F. (1981). Self-consciousness and reactance. *Journal of Research in Personality*, 15, 16-29.
- Froming, W. J., & Carver, C. S. (1981). Divergent influences of private and public self-consciousness in a compliance paradigm. *Journal of Research in Personality*, 15, 159-171.
- Slapion, M. J., & Carver, C. S. (1981). Self-directed attention and facilitation of intellectual performance among persons high in test anxiety. *Cognitive Therapy and Research*, 5, 115-121.
- Scheier, M. F., & Carver, C. S. (1981). Public and private aspects of the self. In L. Wheeler (Ed.), Review of personality and social psychology (Vol. 2). Beverly Hills, CA: Sage.
- Carver, C. S., & Scheier, M. F. (1981). A control-systems approach to behavioral self-regulation. In L. Wheeler (Ed.), *Review of personality and social psychology* (Vol. 2). Beverly Hills, CA: Sage.
- Carver, C. S., DeGregorio, E., & Gillis, R. (1981). Challenge and Type A behavior among intercollegiate football players. *Journal of Sport Psychology*, 3, 140-148.
- Carver, C. S., & Scheier, M. F. (1981). The self-attention-induced feedback loop and social facilitation. *Journal of Experimental Social Psychology*, 17, 545-568.

- Carver, C. S., & Scheier, M. F. (1981). Attention and self-regulation: A control-theory approach to human behavior. New York: Springer-Verlag.
- Carver, C. S., & Humphries, C. (1981). Havana daydreaming: A study of self-consciousness and the negative reference group among Cuban Americans. *Journal of Personality and Social Psychology*, 40, 545-552.
- Carver, C. S., & Scheier, M. F. (1981). Instructional orientation, self-attention, and responses to erotica among persons high in sex guilt. *Basic and Applied Social Psychology*, 2, 253-260.
- Carver, C. S., & Scheier, M. F. (1982). Outcome expectancy, locus of attribution for expectancy, and self-directed attention as determinants of evaluations and performance. *Journal of Experimental Social Psychology*, 18, 184-200.
- Carver, C. S., & Scheier, M. F. (1982). Self-awareness and the self-regulation of behavior. In G. Underwood (Ed.), Aspects of consciousness: Volume 3, Self-awareness. London: Academic Press.
- Matthews, K. A., Carver, C. S., & Scheier, M. F. (1982). Focus of attention and awareness of bodily sensations. In G. Underwood (Ed.), Aspects of consciousness: Volume 3, Self-awareness. London: Academic Press.
- Carver, C. S., & Scheier, M. F. (1982). Control theory: A useful conceptual framework for personality-social, clinical, and health psychology. *Psychological Bulletin*, 92, 111-135.
- Carver, C. S., & Humphries, C. (1982). Social psychology of the Type A coronary-prone behavior pattern. In G. Sanders & J. Suls (Eds.), Social psychology of health and illness. Hillsdale, NJ: Erlbaum.
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- Scheier, M. F., Carver, C. S., & Matthews, K. A. (1983). Attentional factors in the perception of bodily states. In J. T. Cacioppo & R. Petty (Eds.), *Social psychophysiology*. New York: Guilford Press.

- Scheier, M. F., & Carver, C. S. (1983). Two sides of the self: One for you and one for me. In J. Suls & A. G. Greenwald (Eds.), *Psychological perspectives on the self* (Vol. 2). Hillsdale, NJ: Erlbaum.
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- Scheier, M. F., & Carver, C. S. (1983). Self-directed attention and the comparison of self with standards. *Journal of Experimental Social Psychology*, 19, 205-222.
- Carver, C. S., Peterson, L. M., Follansbee, D. J., & Scheier, M. F. (1983). Effects of self-directed attention on performance and persistence among persons high and low in test anxiety. *Cognitive Therapy and Research*, 7, 333-354.
- Carver, C. S., & Ganellen, R. J. (1983). Depression and components of self-punitiveness: High standards, self-criticism, and overgeneralization. *Journal of Abnormal Psychology*, 92, 330-337.
- Carver, C. S., Ganellen, R. J., Froming, W. J., & Chambers, W. (1983). Modeling: An analysis in terms of category accessibility. *Journal of Experimental Social Psychology*, 19, 403-421.
- Carver, C. S., & de la Garza, N. H. (1984). Schema-guided information search in stereotyping of the elderly. *Journal of Applied Social Psychology*, 14, 69-81.
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- Hoffman, H. S., & Carver, C. S. (1984). Political waffling: Its effects on the evaluations of observers. *Journal of Applied Social Psychology*, 14, 375-385.
- Carver, C. S., Diamond, E. L., & Humphries, C. (1985). Coronary prone behavior. In N. Schneiderman & J. T. Tapp (Eds.), *Behavioral medicine: The biopsychosocial approach*. Hillsdale, NJ: Erlbaum.
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- Carver, C. S., & Scheier, M. F. (1985). Aspects of self, and the control of behavior. In B. R. Schlenker (Ed.), *The self and social life*. New York: McGraw-Hill.
- Ganellen, R. J., & Carver, C. S. (1985). Why does self-reference promote incidental encoding? Journal of Experimental Social Psychology, 21, 284-300.

- Carver, C. S., Antoni, M., & Scheier, M. F. (1985). Self-consciousness and self-assessment. Journal of Personality and Social Psychology, 48, 117-124.
- Carver, C. S., & Scheier, M. F. (1985). Self-consciousness, expectancies, and the coping process. In T. Field, P. M. McCabe, & N. Schneiderman (Eds.), Stress and coping. Hillsdale, NJ: Erlbaum.
- Carver, C. S. (1985). Type A behavior, anger, and hostility: Content discussion. In A. M. Ostfeld & E. D. Eaker (Eds.), Measuring psychosocial variables in epidemiologic studies of cardiovascular disease: Proceedings of a workshop. NIH Publication No. 85-2270.
- Scheier, M. F., & Carver, C. S. (1985). Optimism, coping, and health: Assessment and implications of generalized outcome expectancies. *Health Psychology*, 4, 219-247.
- Carver, C. S., Ganellen, R. J., & Behar-Mitrani, V. (1985). Depression and cognitive style: Comparisons between measures. *Journal of Personality and Social Psychology*, 49, 722-728.
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- Carver, C. S., Scheier, M. F., & Klahr, D. (1987). Further explorations of a control-process model of test anxiety. In R. Schwarzer, H. M. van der Ploeg, & C. D. Spielberger (Eds.), Advances in test anxiety research (Vol. 5). Lisse: Swets & Zeitlinger.
- Scheier, M. F., & Carver, C. S. (1987). Dispositional optimism and physical well-being: The influence of generalized outcome expectancies on health. *Journal of Personality* (Special Issue on Personality, Stress, and Physical Health), 55, 169-210.

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- Carver, C. S., & Gaines, J. G. (1987). Optimism, pessimism, and postpartum depression. Cognitive Therapy and Research, 11, 449-462.
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- Robles, R., Smith, R., Carver, C. S., & Wellens, A. R. (1987). Influence of subliminal visual images on the experience of anxiety. *Personality and Social Psychology Bulletin*, 13, 399-410.
- Carver, C. S., & Scheier, M. F. (1988). Perspectives on personality. Needham Heights, MA: Allyn & Bacon.
- Scheier, M. F., & Carver, C. S. (1988). A model of behavioral self-regulation: Translating intention into action. In L. Berkowitz (Ed.), Advances in experimental social psychology (Vol. 21). New York: Academic Press.
- Carver, C. S., & Matthews, K. A. (in press). An overview of issues in psychometric assessment. In N. Schneiderman, P. Kaufman, & S. M. Weiss (Eds.), Handbook of research methods in cardiovascular behavioral medicine. New York: Plenum.
- Carver, C. S., & Scheier, M. F. (in press). A control-process perspective on anxiety. Anxiety Research: An International Journal.
- Carver, C. S., & Scheier, M. F. (in press). Performing poorly, performing well: A view of the self-regulatory consequences of confidence and doubt. *International Journal of Educational Research*.
- Carver, C. S., La Voie, L., Kuhl, J., & Ganellen, R. J. (in press). Generalization, high standards, self-criticism, and depression: A further examination. *Journal of Social and Clinical Psychology*.

#### PAPERS PRESENTED:

- Carver, C. S. Raising self-esteem through objective self-awareness. Eastern Psychological Association, New York, 1975.
- Carver, C. S., & Blaney, P. H. Attention, perceived arousal, and avoidance. Eastern Psychological Association, Boston, 1977.
- Scheier, M. F., & Carver, C. S. Self-consciousness and reactions to fear: When standards and affect collide. Midwestern Psychological Association, Chicago, 1978.
- Carver, C. S. Expectancy, focus of attention, and fear-based avoidance. American Psychological Association, Toronto, 1978.
- Carver, C. S. Self-awareness, self-consciousness, and reactance. American Psychological Association, Toronto, 1978.
- Scheier, M. F., Carver, C. S., & Gibbons, F. X. Self-directed attention and awareness of bodily states. American Psychological Association, New York, 1979.
- Carver, C. S. Responding to failure: *The interactive effect of self-focus and expectancies*. American Psychological Association, New York, 1979.
- Scheier, M. F., & Carver, C. S. The self-attention-induced feedback loop and behavioral regulation. American Psychological Association, Montreal, 1980.
- Carver, C. S. Some reflections on the cybernetic approach to self-regulation. American Psychological Association, Montreal, 1980.
- Carver, C. S., & Scheier, M. F. Self-attention, sex-guilt, and responses to erotica. American Psychological Association, Montreal, 1980.
- Follansbee, D. J., Carver, C. S., Peterson, L. M., & Scheier, M. F. Persistence among persons high and low in test anxiety as a function of self-directed attention. Eastern Psychological Association, New York, 1981.
- Carver, C. S., DeGregorio, E., & Gillis, R. Challenge and Type A behavior among college football players. Eastern Psychological Association, New York, 1981.
- Humphries, C., Neumann, P. G., & Carver, C. S. Cognitive characteristics of the Type A coronary-prone behavior pattern. Eastern Psychological Association, New York, 1981.
- Scheier, M. F., & Carver, C. S. Cognition, affect, and self-regulation. The Seventeenth Annual Carnegie Symposium on Cognition, Pittsburgh, 1981.
- Scheier, M. F., & Carver, C. S. Public and private self-attention and behavior-goal comparisons.

  American Psychological Association, Los Angeles, 1981.
- Carver, C. S., & Scheier, M. F. Private and public self-consciousness and responses to social influence. American Psychological Association, Los Angeles, 1981.
- Carver, C. S., & de la Garza, N. H. Schema-guided information search in stereotyping of the elderly. Eastern Psychological Association, Baltimore, 1982.

- Carver, C. S., & Scheier, M. F. Control-theory approach to personality-social psychology: An update. American Psychological Association, Washington, D. C., 1982.
- Peterson, L. M., Carver, C. S., Follansbee, D. J., & Scheier, M. F. Self-focused attention and test anxiety. American Psychological Association, Washington, D. C., 1982.
- Carver, C. S., & Scheier, M. F. Self-consciousness and coping. Miami Symposium on Stress and Coping. Coral Gables, Florida, 1983.
- Carver, C. S., & Ganellen, R. J. High standards, self-criticism, and overgeneralization: Aspects of self-punitiveness and their relationship to depression. Eastern Psychological Association, Philadelphia, 1983.
- Carver, C. S., & Scheier, M. F. Self-focused attention in test anxiety: A general theory, applied to a specific phenomenon. Society for Test Anxiety Research, Louvain, Belgium, 1983.
- Carver, C. S. Functional and dysfunctional responses to anxiety: The interaction between expectancies and self-focused attention. Invited address, International Conference on Anxiety and Self-related Cognitions, Berlin, Federal Republic of Germany, 1983.
- Carver, C. S. On the usefulness of a hierarchical conception of self. Nag's Head Conference on the Self, Nag's Head Conference Center, North Carolina, 1984.
- Carver, C. S., & Scheier, M. F. Self-consciousness and the experience of the self. International Interdisciplinary Conference on Self and Identity, Cardiff, Wales, 1984.
- Carver, C. S., Ganellen, R. J., & Behar-Mitrani, V. Depression and cognitive style:

  Comparisons between measures. American Psychological Association, Toronto, 1984.
- Carver, C. S., & Scheier, M. F. Anxiety and the coping process: Effects of expectancies and focus of attention. XXIII International Congress of Psychology, Acapulco, Mexico, 1984.
- Carver, C. S. Motivation and information processing: Two perspectives on their intersection. XXIII International Congress of Psychology, Acapulco, Mexico, 1984.
- Carver, C. S. Cybernetics: Meta-theoretical implications for social psychology. Society of Southeastern Social Psychologists, Atlanta, 1984.
- Weintraub, J. K., Carver, C. S., & Scheier, M. F. Dispositional optimism and strategies of coping. Eastern Psychological Association, Boston, 1985.
- Carver, C. S. A control-process model of behavioral self-regulation: General principles, applications, and a few speculations concerning performance in sport. Invited address, North American Society for Sport Psychology and Physical Activity, Gulfport, Mississippi, 1985.
- Carver, C. S., Scheier, M. F., & Klahr, D. Further explorations of a control-process model of test anxiety. Society for Test Anxiety Research, Düsseldorf, Federal Republic of Germany, 1985.
- Scheier, M. F., & Carver, C. S. The self in action: From intention to behavior. American Psychological Association, Los Angeles, 1985.

- Carver, C. S. Optimism and well-being; generalization and dysphoria. American Psychological Association, Los Angeles, 1985.
- Carver, C. S. A control-process approach to behavioral self-regulation: Principles, applications, and speculations about performance in sport. Invited address, Canadian Society for Psychomotor Learning and Sport Psychology, Montreal, 1985.
- Spitzer, S. B., Carver, C. S., Gerace, T. A., Tischenkel, N., Gellman, M., & Schneiderman, N. Locus of control, John Henryism, monitoring-blunting, and reactivity in the Miami hypertension project. Society of Behavioral Medicine, San Francisco, 1986.
- Weintraub, J. K., Carver, C. S., McCabe, P. M., Nelesen, R., Pasin, R. D., & Schneiderman, N. Anger, hostility, and reactivity in the Miami hypertension project. Society of Behavioral Medicine, San Francisco, 1986.
- Weintraub, J. K., Carver, C. S., & Scheier, M. F. A theoretically derived measure of coping responses, and correlations with the personality dimension of optimism-pessimism. Eastern Psychological Association, New York, 1986.
- Scheier, M. F., & Carver, C. S. A model of behavioral self-regulation: From intention to action. American Psychological Association, Washington, D. C., 1986.
- Carver, C. S., & Scheier, M. F. Dispositional optimism: A theoretical analysis, and implications for self-regulation of behavior. American Psychological Association, Washington, D. C., 1986.
- Weintraub, J. K., Carver, C. S., & Scheier, M. F. Development of a theoretically based measure of coping styles. American Psychological Association, Washington, D. C., 1986.
- Weintraub, J. K., Carver, C. S., & Scheier, M. F. Stress and coping during two weeks surrounding a course examination. Eastern Psychological Association, Arlington, VA, 1987.
- Carver, C. S. Rumination and stress: The good, the bad, and the ugly. Invited presentation, Conference on Ruminations, Self-relevant Cognitions, and Stress. Center of Excellence, Memphis State University, Memphis, TN, 1987.
- Carver, C. S., & Scheier, M. F. Expectancies and coping: From test anxiety to pessimism. Society for Test Anxiety Research, Bergen, Norway, 1987.
- Strack, S., Carver, C. S., & Blaney, P. H. Dispositional optimism as a predictor of successful aftercare treatment for alcoholics. American Psychological Association, New York, 1987.
- Carver, C. S., & Scheier, M. F. Dispositional optimism, coping, and stress. American Psychological Association, New York, 1987.
- Carver, C. S. The Structure of Self-regulation, and Responses to Adversity. Invited presentation, University of Massachusetts Conference on Adversity. Amherst, MA, 1988.

#### REFERENCES:

Neil Schneiderman Professor Department of Psychology University of Miami P. O. Box 248185 Coral Gables, Florida 33124

Clyde Hendrick Graduate Dean and Professor of Psychology Texas Tech University Lubbock, Texas 79409

Paul-H. Blaney Professor Department of Psychology University of Miami P. O. Box 248185 Coral Gables, Florida 33124 Herbert C. Quay Professor and Chairman Department of Psychology University of Miami P. O. Box 248185 Coral Gables, Florida 33124

Michael F. Scheier Professor Department of Psychology Carnegie-Mellon University Pittsburgh, Pennsylvania 15213

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## **CURRICULUM VITAE**

# David R. Liskowsky Research Assistant Professor Department of Psychology

## A. PERSONAL DATA

Mailing Address:

Department of Psychology

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Social Security No. 026-38-2045

Home Adress:

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Key Biscayne, Florida 33149 Phone: (305) 361-5120

Date of Birth:

May 21, 1950

Place of Birth:

Malden, Massachusetts

Marital Status:

Single

## B. EDUCATIONAL HISTORY

Institution	Dates Attended	<u>Degree and Major</u>
University of Miami Department of Pharmacology	3/81 - 5/85	Post-Doctoral
University of Miami Department of Psychology	9/76 - 2/81	Ph.D. Psychology M.S. Psychology
Northeastern University	9/71 - 6/74	B.S. Psychology
Colby College	9/68 - 6/70	Biology
Ph.D. Dissertation:	The descending bradycardia pathways between the parabrachial nucleus and the medulla in the rabbit.	
Masters Thesis:	The location of abdominal vagal preganglionic efferent cell bodies in the medulla of monkeys, cats, and rabbits.	
	Advisor: Dr. Neil Schneiderman	

## C. <u>CURRENT APPOINTMENTS</u>

10/86 - present

Research Assistant Professor

Dept. of Psychology

10/86 - present

Research Assistant Professor

Dept. of Pharmacology

3/87 - present

Affiliate Faculty

Campus Wide Neuroscience Program

## D. GRANTS AND AWARDS

Basic Research Support Grant, University of Miaml, Co-Pl	1/87 - 12/87
General Research Support Award - University of Miami, NIH	1/87 - 12/87
NIH Individual Post-doctoral Fellowship #1F32 NSO7221-01	3/83 - 2/85
University of Miami - Teaching Assistantship	9/76 - 6/80
Graduated with Honors - Northeastern University	6/74

## E. RESEARCH EXPERIENCE

1986 - present

Research conducted at the University of Miami, Department of Psychology

 Examination of CNS control of the cardiovascular system using neurophysiological, neuroanatomical, immunohistochemical behavioral, and conditioning techniques

1985 - 1986

Research conducted at the Veteran's Administration Hospital, Miami Department of Neuropathology

Research Assistant Professor Laboratory of Dr. M. Norenberg

 Examination of benzodiazepine and beta-adrenergic receptors on cultured glial cells

1981 - 1985

Research conducted at the University of Miami Medical School Department of Pharmacology

Supervisor: Dr. Lincoln T. Potter

 Receptor binding assays - Examination of characteristics and anatomical distribution of dopamine receptor subtypes in the striatum and frontal cortex

## Research Experience (continued)

- Studies of the uptake and distribution, in vivo, of synaptic ligands (L-DOPA, scopolamine) for possible use as tracers with positron emission tomography
- c. Autoradiographic localization of receptor populations using labelled ligands

1976 - 1981

Research conducted at the University of Miami Department of Psychology

Advisor: Dr. Neil Schneiderman

- Examination of CNS control of cardiovascular responses using extracellular single unit recording, stimulating, and lesioning techniques
- Anatomical investigations of CNS pathways involved in mediating cardiovascular responses using HRP tracing techniques

1974 - 1976

Research conducted at the Neurological Unit of Boston State Mental Hospital

 Anatomical investigation of the CNS vestibular pathways in cats and monkeys using HRP and autoradiographic techniques

#### F. RESEARCH SKILLS

Receptor binding assays
Autoradiographic localization of receptor populations
Extracellular single unit recording
Immunohistochemistry
Anatomical tracing techniques (HRP, PHA, fluorescent tracers)
Perfusion, histological, and staining techniques
Electrical stimulation and lesioning techniques
Dissecting and stereotaxic surgical techniques

## G. TEACHING EXPERIENCE

10/86 - present 5/82 - 10/86 Research Assistant Professor Adjunct Assistant Professor Department of Psychology

University of Miami

**Graduate Seminars** 

- Neuropharmacology

- Neuroanatomy

Undergraduate

- Physiological Psychology; Psychobiology Lab

# Teaching Experience (continued)

10/86 - present Research Assistant Professor 5/85 - 10/86 Adjunct Assistant Professor

4/81 - 5/85 Lecturer

Department of Pharmacology

University of Miami School of Medicine

Pharmacology (sophomore medical students - 4 semesters;

Ph.D. to M.D. program - 4 semesters

8/78 - 12/79 Instructor

University of Miami

Department of Psychology

Psychology as a Biological Science (3 semesters)

9/74 - 3/75 Teacher

Malden Public School System

Malden, Massachusetts Secondary school level

9/73 - 6/74 Teaching Assistant

Northeastern University Department of Psychology Psychophysics (2 semesters)

# G. <u>DISSERTATION COMMITTEES</u>

Howard Ellenberger	Ph.D 1984
William Le Blanc	Ph.D 1985
Theodore Jarrell	Ph.D 1986
Peter Vera	Ph.D 1987
Alan Teich	Ph.D 1987
Christopher Gentile	Ph.D 1987

# H. RESEARCH PUBLICATIONS

Wallach, J. H., Ellenberger, H., Schneiderman, N., Liskowsky, D. R., Hamilton, R. B., & Gellman, M. (1979). Preoptic-anterior hypothalamic area as a mediator of bradycardia responses. <u>Neuroscience Abstracts</u>, 5, 52.

Hamilton, R. B., Ellenberger, H., Liskowsky, D. R., Schneiderman, N., & Gellman, M. (1980). Parabrachial nucleus as a mediator of bradycardia in rabbits.

Neuroscience Abstracts, 6, 264.

Hamilton, R. B., Ellenberger, H., Liskowsky, D. R., & Schneiderman, N. (1981).
Parabrachial area as a mediator of bradycardia in rabbits. <u>Journal of the Autonomic Nervous System</u>, <u>4</u>, 261-281.

## Research Publications (continued)

- Liskowsky, D. R., Ellenberger, H., Hazelton, J. R., & Schneiderman, N. (1981).

  Descending bradycardia pathways between the parabrachial nucleus and the medulla in the rabbit. Neuroscience Abstracts, 7, 824.
- Ellenberger, H., Hazelton, J. R., Liskowsky, D. R., & Schneiderman, N. (1982). Localization of cardio-inhibitory motoneurons in the medulla of the rabbit. Federal Proceedings Abstracts, 41, 1517.
- Liskowsky, D. R., & Potter, L. T. (1982). Pre-PET studies of L-DOPA in rats. <u>Federal Proceedings Abstracts</u>, 41, 1062.
- Liskowsky, D. R., & Potter, L. T. (1983). Two components of spiroperidol binding in the rat striatum. Neuroscience Abstracts, 9.
- Ellenberger, H., Hazelton, J. R., Liskowsky, D. R., & Schneiderman, N. (1983). The location of chronotropic cardioinhibitory vagal motoneurons in the medulla of the rabbit. <u>Journal of the Autonomic Nervous System</u>, 9, 513-529.
- Vora, M. M., Finn, R. D., Boothe, T. E., Liskowsky, D. R., & Potter, L. T. (1983).

  11C-scopolamine: Synthesis and distribution in rat brain. <u>Journal of Laboratory Compounds and Radiopharmacology</u>, 20(11), 1229-1233.
- Liskowsky, D. R., & Potter, L. T. (1985). Pre-PET studies of the distribution of 3H-L-DOPA in the rat. <u>Neuroscience Letters</u>, <u>56</u>, 161-167.
- Liskowsky, D. R., & Potter, L. T. (1985). D2 dopamine receptors in the frontal cortex of the rat and human. <u>Life Sciences</u>, <u>36</u>(16), 1551-1559.
- Liskowsky, D. R., & Potter, L. T. (1985). Muscarine binding sites localised on mesocortical dopamine terminals. <u>Neuroscience Letters</u>, <u>58</u>, 229-233.
- Liskowsky, D. R., Salvatierra, A. T., Weiner, W., & Potter, L. T. (1985). Behavioral and receptor changes in nigrostriatal lesioned rats after chronic dopamine agonists. Neuroscience Abstracts, 11, 186.
- Liskowsky, D. R., Norenberg, L. O. B., & Norenberg, M. D. (1986). Effects of ammonia on cyclic AMP production in primary astrocyte cultures. <u>Brain Research</u>, <u>386</u>(1-2), 386-389.
- Liskowsky, D. R., & Potter, L. T. (1987). D2 receptors in the striatum and frontal cortex following chronic haloperidol administration. <u>Neuropharmacology</u>, <u>26</u>(5), 481-483.
- Vera, P. L., Liskowsky, D. R., McCabe, P. M., & Schneiderman, N. (1987). Serotonergicand noradrenergic-like immunoreactive terminals in the thoracic intermediate grey matter of the rabbit project to retrogradely identified sympathetic preganglionic neurons. <u>Neuroscience Abstracts</u>, <u>13</u>.

# Research Publications (continued)

- Liskowsky, D. R., Winters, R. W., Vera, P. L., McCabe, P. M., Schneiderman, N. (1987). Connections between cardiovascular areas of the hypothalamus and the periaqueductal grey region of the rabbit. Neuroscience Abstracts, 13.
- Teich, A. H., Gentile, C. G., McCabe, P. M., Jarrell, T. W., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. Auditory cortex lesions disrupt the acquisition of differential bradycardiac conditioning to tonal stimuli in rabbits. <u>Neuroscience Abstracts</u>, 13.
- Haselton, J. R., Winters, R. W., Liskowsky, D. R., Haselton, C. L., McCabe, P. M., & Schneiderman, N. (in press). Cardiovascular responses elicited by electrical and chemical stimulation of the rostral medullary raphe of the rabbit. <u>Brain Research</u>.
- Haselton, J. R., Winters, R. W., Liskowsky, D. R., Haselton, C. L., McCabe, P. M., & Schneiderman, N. (in press). Anatomical and functional connections of neurons of the rostral medullary raphe of the rabbit. <u>Brain Research</u>.
- Teich, A.H., McCabe, P.M., Gentile, C.G., Schneiderman, L.S., Winters, R.W., Liskowsky, D.R., & Schneiderman N. (in press). Auditory cortex lesions prevent the extinction of Pavlovian differential heart rate conditioning to tonal stimuli in rabbits. <u>Brain Research.</u>

## I. Book Chapters

McCabe, P. M., Schneiderman, N., Jarrell, T. W., Gentile, C. G., Teich, A. H., Winters, R. W., & Liskowsky, D. R. (in press). Central pathways involved in classical differential conditioning of heart rate responses in rabbits. In I. Gormezano, & J. H. Harvey, Neural substrates of learning. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc., Publishers.

VITA David Liskowsky Page 7

## <u>REFERENCES</u>

Dr. Neil Schneiderman University of Miami Department of Psychology P. O. Box 248185 Coral Gables, Florida 33124 (305) 284-4186

Dr. Ray Winters University of Miami Department of Psychology P. O. Box 248185 Coral Gables, Florida 33124 (305) 284-4186

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## VITA OF RAY WINTERS

#### A. PERSONAL DATA

· / - \*

1. Address: Department of Psychology

University of Miami

Coral Gables, Florida 33124

2. Born: February 17, 1942

Washington, DC

3. Marital Status: Married, one child

4. Office phone: (305) 284-3327 or 284-2814

5. Home phone: (305) 386-2698

6. Social Security Number: 220-40-0910

#### B. EDUCATIONAL BACKGROUND

1. B.S. - 1964 Michigan State University; Psychology, Physics

2. M.A. - 1966 Michigan State University; Psychology

3. Ph.D. - 1969 Michigan State University; Psychology, Neurophysiology

## C. PROFESSIONAL EXPERIENCE

Professor of Psychology
 University of Miami
 1979 to present

2. Associate Professor of Psychology

University of Miami 1974 to 1979

3. Assistant Professor of Psychology University of Miami

Jniversity of Miami 1969 to 1974

4. Faculty Biomedical Engineering Department

University of Miami 1970 to present

5. Member, Laboratory of Quantitative Biology

Department of Biology University of Miami

niversity of Miami 1969 to present

## D. RESEARCH GRANTS

- 1. NIH Institutional Grant to the University of Miami: \$10,000 for laboratory equipment. (1969)
- 2. NSF Institutional Grant to the University of Miami: \$10,000 for laboratory equipment. (1969)
- 3. NIH Grant R01 EY00701: Single cell recordings in cat optic tract; \$40,000. (1972 1974)

## Research Grants (continued)

- 4. NIH Grant R01 EY00701: Single cell recordings in cat optic tract; \$154,000. (1974 1977)
- 5. NIH Grant R01 EY00701: Single cell recordings in cat optic tract; 142,000. (1975 1981)

#### E. PROFESSIONAL INTERESTS

Neural Basis of Behavior, Behavioral Medicine, Electrophysiology of the Cardiovascular System, Psychophysiology of Anxiety, Electrophysiology of the Visual System.

## F. ADMINISTRATIVE ACTIVITIES

- 1. Chairman of Research Committee, Department of Psychology
- 2. Chairman of Experimental Faculty, Department of Psychology
- 3. Chairman of Biopsychology Program, Department of Psychology

## G. COURSES TAUGHT

#### <u>Undergraduate</u>

1.	Psychology 101:	Psychology of Social Science
2.	Psychology 102:	Psychology as Biological Science
	Psychology 103:	General Principles of Psychology
	Psychology 402:	Physiological Psychology
	Psychology 403:	Techniques in Physiological Psychology
	Described and 500.	David

6. Psychology 509: Perception

7. Psychology 481: Stress Management

## Graduate

1. Psychology 600: Advanced General Psychology (Biological Foundations)

Psychology 614: Sensory Processes
 Psychology 696: Neuroanatomy

4. Psychology 694: Seminar in Perception

5. Psychology 676: Seminar in Behavioral Medicine: Stress and Stress Management

#### H. PUBLICATIONS

Teich, A. H., McCabe, P. M., Gentile, C. C., Schneiderman, L. S., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. (in press). Auditory cortex lesions prevent the extinction of Pavlovian differential heart rate conditioning to tonal stimuli in rabbits. <u>Brain Research</u>.

## Publications (continued)

- McCabe, P. M., Schneiderman, N., Winters, R. W., Gentile, C. G., & Teich, A. (in press). Learned aspects of cardiovascular regulation. In R. Ader, & A. Baum (Eds.), Perspectives in behavioral medicine, Vol. 6.
- McCabe, P. M., Schneiderman, N., Jarrell, T. W., Gentile, C. G., Teich, A. H., Winters, R. W., & Liskowsky, D. R. (in press). Central pathways involved in differential classical conditioning of heart rate responses. In I. Gormezano, & J. A. Harvey (Eds.), The neural substrates of learning. Hillsdale, NJ: Erlbaum Associates, Inc.
- Bartley, S. H., & Winters, R. W. (1968). Target structure and visual distance. <u>Journal of Psychology</u>, 70, 267-268.
- Winters, R. W. & Johnson, D. M. (1969). Attention and the establishment of a scale of judgment. <u>Journal of Experimental Psychology</u>, 81, 603-605.
- Winters, R. W., & Walters, J. W. (1970). Transient and steady state stimulus-response relationships for cat retinal ganglion cells. <u>Vision Research</u>, 10, 461-477.
- Winters, R. W., & Hamasaki, D. I. (1972). Comparison of LGN and optic tract intensity-response functions. <u>Vision Research</u>, 12, 589-608.
- Hickey, T. L., Winters, R. W. & Pollack, J. G. (1972). Receptive field center and surround interactions in single cat retinal ganglion cells. <u>Brain Research</u>, 43, 250-253.
- Winters, R.W., Pollack, J. G., & Hickey, T. L. (1972). Two types of on-center cells in cat optic tract. <u>Brain Research</u>, <u>47</u>, 501-505.
- Hamasaki, D. I., & Winters, R. W. (1973). Intensity-response functions of visually deprived LEN neurons of cats. <u>Vision Research</u>, 13, 925-936.
- Winters, R. W., Hickey, T. L., & Pollack, J. G. (1973). Effect of variations of target location upon the peripheral responses of on-center retinal ganglion cells in the cat. <u>Vision Research</u>, 13, 1487-1498.
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- Winters, R. W. (1974). Some relationships between the psychophysics and neurophysiology of color vision. <u>American Journal of Optometry and Physiological Optics</u>, 51, 550-566.
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- Winters, R. W., & Hamasaki, D. I. (1976). Temporal characteristics of peripheral inhibition of sustained transient ganglion cells in cat retina. <u>Vision Research</u>, 16, 37-45.
- Pollack, J. G., & Winters, R. W. (1978). A comparison of the strength of lateral inhibition in X and Y cells in the cat retina. <u>Brain Research</u>, 143, 538-543.
- Pollack, J. G., & Winters, R. W. (1978). Effect of adaptation level on maintained firing and sensitivity in receptive field center of X and Y cells. Experientia, 34, 80-81.
- Robertson, T. W., Winters, R. W., Christen, W. G., & Cohen, H. I. (1978). The effect of adapting target location on the gain of the surround mechanisms in cat retinal ganglion cells. <u>Brain Research</u>, 156, 360-363.
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- Cohen, H. I., Winters, R. W., Hamasaki, D. I. (1980). Responses of X and Y cat retinal ganglion cells to moving stimuli. <u>Experimental Brain Research</u>, 38, 299-303.
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- Cohen, H. I., Winters, R. W., & Christen, W. G. (1981). Summing properties of the surround response mechanisms of cat retinal ganglion cells. Experientia, 37, 857-859.
- Cohen, H. I., & Winters, R. W. (1982). Spatial distribution of signal and adaptive sensitivity in the receptive field surrounds of cat retinal ganglion cells. Experientia, 38, 581-583.

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- Robertson, T. W., Christen, W. G., & Winters, R. W. (1983). Effect of target position and size on adaptive sensitivity of the surround response mechanism of cat retinal ganglion cells. Experientia, 39, 357-358.
- Robertson, T. W., Christen, W. G., & Winters, R. W. (1983). Analysis of the adaptation fields of the surround response mechanism of cat retinal ganglion cells. <u>Experimental Brain Research</u>, 52, 351-362.
- Schrima, L., Hartman, P., Anderson, J., Dandes, H., & Winters, R. (1983). The relationship of blood pressure and heart rate to narcolepsy and cataplexy. <u>Sleep Research</u>, 12, 231-236.
- Robertson, T. W., Christen, W. G., & Winters, R. W. (1985). Adaptative sensitivity of the surround mechanism of cat retinal ganglion cells. <u>Experimental Brain Research</u>, <u>54</u>, 449-454.
- Cohen, H. I., Winters, R. W., Robertson, T. W., & Christen, W. G. (1985). Comparison of signal and adaptive sensitivity profiles of the surround mechanism of cat retinal ganglion cells. <u>Experimental Neurology</u>, 87.

#### I. CHAPTERS

- McCabe, P. M., Schneiderman, N., Jarrell, T. W., Gentile, C. G., Teich, A. H., Winters, R. W., & Liskowsky, D. R. (in press). Central pathways involved in classical differential conditioning of heart rate responses in rabbits.
- Winters, R. W., (1974). Single cell coding in sensory systems. In J. Kline (Ed.), <u>Unified Systems Approach to the Medical Sciences for Biomedical Engineers</u>. Cambridge, MA: Little Brown.
- Winters, R. W., & Anderson, J. B. (1985). Biological basis of behavior. In N. Schneiderman, & J. Tapp (Eds.), <u>Behavioral medicine</u>: A biopsychosocial approach. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Winters, R. W. (1985). Behavioral approaches to pain. In N. Schneiderman, & J. Tapp (Eds.), <u>Behavioral medicine</u>: A biopsychosocial approach. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Winters, R. W. (1985). Stress, arousal and sleep. In T. Field, N. Schneiderman, & P. M. McCabe (Eds.), Stress and coping. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.

#### J. ABSTRACTS

Winters, R. W., & Walters, J. W. (1970). <u>Intensity coding in single optic tract fibers in the cat</u>. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota.

# Abstracts (continued)

- Winters, R. W., & Hamsaski, D. I. (1970). <u>Comparison of intensity response relationships</u> for cat optic tract and lateral geniculate neurons. Presented at the annual meeting of the Optical Society of America, Hollywood, Florida.
- Winters, R. W., & Hamasaki, D. I. (1970). <u>Intensity-response relationships for lateral geniculate neurons of the cat</u>. Presented at the annual meeting of the American Academy of Optometry, Miami Beach, Florida.
- Winters, R. W., & Hamasaki, D. I. (1971). <u>Transformation of luminance information in cat lateral geniculate nucleus</u>. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- Winters, R. W., Hickey, T. L., & Skaer, D. H. (1972). <u>Characteristics of surround responses in single retinal ganglion cells in the cat</u>. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota.
- Winters, R. W., & Hamasaki, D. I. (1975). <u>Temporal properties of surround inhibition in X and Y retinal ganglion cells in the cat</u>. Presented at the annual meeting of Neurosciences Society, New York.
- Pollack, J. G., & Winters, R. W. (1975). <u>Quantitative characteristics of lateral inhibition in transient and sustained retinal ganglion cells in cat</u>. Annual meeting of Neurosciences Society, New York, November.
- Christen, W., & Winters, R. W. (1976). Spatial distribution of surround inhibition in X cells in cat retina. Annual meeting of the Association for Research in Vision and Ophthalmology.
- Cohen, H., Winters, R. W., & Hamasaki, D. I. (1977). Response of Type X and Type Y cells to moving targets. Annual meeting of the Association for Research in Vision and Ophthalmology.
- Christen, W., Winters, R. W., Robertson, T. W., & Cohen, H. (1978). Adaptation field of the surround mechanism in X and Y cells in cat retina. Annual meeting of the Association for Research in Vision and Ophthalmology.
- Robertson, T. W., Winters, R. W., Christen, W., & Cohen, H. (1979). <u>Comparison of two response measures of surround inhibition in X an Y cells in cat retina</u>. Annual meeting of the Society for Neuroscience.
- Schrima, L., Hartman, P., & Winters, R. (1984). Cataplexy related to blood pressure and heart rate. Annual meeting of the Society for Neuroscience.

VITA Ray Winters Page 7

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## K. REFERENCES

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- Dr. Herbert Quay, Chairman Department of Psyhcology University of Miami P. O. Box 248185 Coral Gables, Florida 33124

## VITA OF PHILIP M. McCABE

TITLE:

Assistant Professor of Psychology

DATE OF BIRTH:

October 6, 1953

#### **EDUCATIONAL HISTORY:**

B.S.:

University of Illinois, August, 1975

Major: Psychology

Ph.D.:

University of Illinois, January, 1982

Neural and Behavioral Biology

Dissertation title: The Respiratory-Heart Rate Interaction: Quantification

and Physiological Mechanisms

## PROFESSIONAL HISTORY:

1987-present	University of Miami Neuroscience Program; University-wide
	Interdepartmental program

1986-present Advisory Committee, NHLBI Program Project HL36588-01,
"Psychophysiology of Cardiovascular Reactivity," Department of Psychology, University of Miami

1982-present Assistant Professor of Psychology, Behavioral Medicine Program,

University of Miami

Post Doctoral Fellow, National Institute of Health, National Heart, Lung

and Blood Institute Traineeship, Behavioral Medicine Training Grant,

University of Miami

1980-1981 Teaching Assistant, Laboratory course in Psychophysiology,

University of Illinois

1977-1980 Trainee, National Institute of Mental Health Traineeship,

Psychophysiology Training Grant, University of Illinois

1976-1977 Research Assistant, to Dr. Stephen W. Porges, University of Illinois

#### SCHOLARSHIPS AND APPOINTMENTS:

1987-present University of Miami, Animal Research Committee

1987-present Ad Hoc Advisor, Department of Defense, Universal Energy Systems

1986-present Ad Hoc Advisor, Veterans Administration

1985-present Ad Hoc Advisor, National Science Foundation

1987-present University of Miami, Graduate Council Curriculum Committee (Group IV)

National Heart, Lung and Blood Institute Post-Doctoral Fellowship, "Behavioral Medicine and Cardiovascular Disease" VITA Philip M. McCabe Page 2

# Scholarships and Appointments (continued)

1977-1979

National Institute of Mental Health Trainee

#### **EDITORIAL CONSULTANT:**

Psychophysiology
Health Psychology
Physiology and Behavior
Physiological Psychology
Behavioral Neuroscience
Behavioral Brain Research
Journal of Experimental Psychology:
Animal Behavior Processes

#### **TEACHING:**

## University of Miami:

Undergraduate Courses: Psychology

Psychology 102 - Biological Bases of Behavior

Psychology 402 - Psychobiology

Psychology 403 - Laboratory in Psychobiology

Graduate Courses:

Psychology 600 - Psychobiology Psychology 659 - Psychophysiology

Psychology 676 - Seminar in Hypertension

Biomedical Engineering 502 - Neurophysiology for

Biomedical Engineers

Medical School Courses:

Stress Section, 1st year Endocrinology Course

Dr. Andrew Taylor, Instructor

## PROFESSIONAL SOCIETIES:

Society for Psychophysiological Research Society for Neuroscience American Association for the Advancement of Science Sigma Xi

#### **GRANT ACTIVITY:**

## Active Support:

National Institute of Health, NHLBI Program Project (HL-36588-01) "Psychophysiology of Cardiovascular Reactivity" Project 4: "CNS Modulation of Sympathetic Reactivity in Rabbits" Annual Direct Costs: \$129,878, 7/86 - 6/91 Project Leader, Philip M. McCabe, 40% Effort P.I., Neil Schneiderman

VITA Philip M. McCabe Page 3

## Grant Activity (continued)

National Institute of Health, NINCDS Program Project (NS-05820-20) "Plasticity and Recovery from Cerebral Ischemia" Annual Direct Costs: \$80,000, 8/85 - 7/90 Co-P.I., Philip M. McCabe, 20% Effort Project Leader, W. Dalton Dietrich, Department of Neurology

National Institute of Health, NINCDS Program Project (NS-05820-20) "CNS Mediation of Cerebral Ischemic Response" Annual Direct Costs: \$26,000 8/85 - 7/87 Co-P.I., Philip M. McCabe, 10% Effort Project Leader, Neil Schneiderman

## Pending:

National Institute of Health, NINCDS (NS-24874-01)
"CNS Mediation of Differentially Conditioned Heart Rate Responses"
Proposed Annual Direct Costs: \$65,037, 2/88 - 1/91
P.I., Philip M. McCabe, 25% Effort

#### PAST SUPPORT:

NIH-BRSG, Biomedical Support Grant, University of Miami, "Neural Substrates of Sympathetic Reactivity" \$16,722, 1987 CO-P.I., Philip M. McCabe

NIH-BRSG, Biomedical Support Grant, University of Miami, "Salt-Stress Hypertension in Rats" \$3,918, 1985
P.I., Philip M. McCabe

NIH-BRSG, Biomedical Support Grant, University of Miami, "Central Respiratory-Cardiovascular Interactions" \$5,000, 1983
P.I., Philip M. McCabe

## **PUBLICATIONS:**

- Jarrell, T. W., Gentile, C. G., Romanski, L. M., McCabe, P. M., & Schneiderman, N. (1987). Involvement of cortical and thalamic auditory regions in retention of differential bradycardia conditioning to acoustic condtioned stimuli in rabbits. <u>Brain Research</u>, 412, 285-294.
- Jarrell, T. W., Gentile, C. G., McCabe, P. M., & Schneiderman, N. (1986). Sinoaortic denervation does not prevent differential Pavlovian conditioning of bradycardia in rabbits. Brain Research, 381, 251-258.

## Publications (continued)

- Gentile, C. G., Jarrell, T. W., Teich, A., McCabe, P. M., & Schneiderman, N. (1986). The role of amygdaloid central nucleus in the retention of differential conditioning of bradycardia in rabbits. Behavioral Brain Research, 20, 263-273.
- Jarrell, T. W., Romanski, L. M., Gentile, C. G., McCabe, P. M., & Schneiderman, N. (1986). Ibotenic acid lesions in the medial geniculate region prevent the acquisition of differential Pavlovian conditioning of bradycardia to acoustic stimuli in rabbits. <u>Brain Research</u>, 382, 199-203.
- Jarrell, T. W., McCabe, P. M., Teich, A., Gentile, C. G., VanDercar, D., & Schneiderman, N. (1986). Lateral subthalamic area as a mediator of classically conditioned bradycardia in rabbits. Behavioral Neuroscience, 100, 3-10.
- Jarrell, T. W., Gentile, C. G., McCabe, P. M., & Schneiderman, N. (1986). The role of medial geniculate region in differential Pavlovian conditioning of bradycardia in rabbits. Brain Research, 374, 126-136.
- McCabe, P. M., Schneiderman, N., Winters, R. W., Gentile, C. G., & Teich, A. (in press). Learned aspects of cardiovascular regulation. In R. Ader, & A. Baum (Eds.), <u>Perspectives in behavioral medicine</u>, <u>Vol. 6</u>. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc., Publishers.
- McCabe, P. M., Schneiderman, N., Jarrell, T. W., Gentile, C. G., Teich, A. H., Winters, R. W., & Liskowsky, D. R. (in press). Central pathways involved in differential classical conditioning of heart rate responses. In I. Gormezano, & J. A. Harvey (Eds.) The neural substrates of learning. Hillsdale, NJ: Erlbaum.
- Schneiderman, N., & McCabe, P. M. (in press). Psychophysiological strategies in laboratory research. In N. Schneiderman, P. Kaufmann, & S. Weiss (Eds.), <u>Handbook of research methods in cardiovascular behavioral medicine</u>. Plenum: New York.
- Schneiderman, N., Ironson, G., & McCabe, P. N. (in press). Physiology of behavior and blood pressure regulation in humans. In W. H. Birkenhager & J. L. Reid (Chief Eds.), S. Julius (Volume Ed.), <u>Handbook of hypertension</u>, <u>Volum 10</u>: <u>Behavioral factors in hypertension</u>. Elsevier: Amsterdam.
- Field, T., McCabe, P. M., & Schneiderman, N. (Eds.). <u>Stress and coping over development</u>. Hillsdale, NJ: Erlbaum, in press.
- Schneiderman, N., McCabe, P. M., Haselton, J. R., Ellenberger, H. H., Jarrell, T. W., & Gentile, C. G. (1986). The neurobiological bases of conditioned bradycardia in rabbits. In R. F. Thompson, W. R. Prokasy, & I. Gormezano (Eds.), Classical conditioning III:

  Neurophysiology and behavior of the rabbit. Hillsdale, NJ: Erlbaum, Inc.
- Haselton, J. R., Haselton, C. L., Vera, P. L., Ellenberger, H. H., Schneiderman, N., & McCabe, P. M. (1985). Nucleus reticularis lateralis mediates the pressor component of the cerebral ischemic response. <u>Brain Research</u>, 335, 315-320.

# Publications (continued)

- McCabe, P. M., Yongue, B. G., Ackles, P. K., & Porges, S. W. (1985). Changes in heart period, heart rate variability and respiratory simus arrhythmia as a result of pharmacological manipulations of the baroreflex in cats. <u>Psychophysiology</u>, 22, 195-203.
- McCabe, P. M. & Schneiderman, N. (1985). Psychophysiological reactions to stress. In N. Schneiderman & J. T. Tapp (Eds.), <u>Behavioral Medicine</u>: <u>The biopsychosocial approach</u>. Hillsdale, N.J.: Erlbaum, Inc.
- Schneiderman, N., & McCabe, P. M. (1985). Biobehavioral responses to stressors. In T. Field, P. M. McCabe, & N. Scheiderman (Eds.), Stress and coping. Hillsdale, NJ: Erlbaum.
- Field, T., McCabe, P. M., & Schneiderman, N. (Eds.). Stress and coping. Hillsdale, NJ: Erlbaum, 1985.
- McCabe, P. M., Yongue, B. G., Porges, S. W., & Ackles, P. K. (1984). Changes in heart period, heart-period variability, and a spectral analysis estimate of respiratory sinus arrhythmia during aortic nerve stimulation in rabbits. <u>Psychophysiology</u>, 21, 149-158.
- Schneiderman, N., McCabe, P. M., & Hausman, K. A. (1984). Neurogenic influences upon the heart. In A. Herd & S. M. Weiss, <u>Cardiovascular instrumentation</u>: <u>Applicability of new technology to biobehavioral research</u>. DHHS publication (NIH).
- Yongue, B. G., McCabe, P. M., Porges, S. W., Rivera, M. E., Kelley, S. L., & Ackles, P. K. (1982). The effects of pharmacological manipulations that influence vagal control of the heart on heart period, heart-period variability, and respiration in rats. Psychophysiology, 19, 426-432.
- Porges, S. W., McCabe, P. M., & Yongue, B. G. (1982). Respiratory-heart rate interactions: Psychophysiological implications for pathophysiology and behavior. In J. T. Caciopppo & R. E. Petty (Eds.), Focus on Cardiovascular Psychophysiology. New York: Guilford Press.
- McCabe, P. M., Porges, S. W., & Carter, C. S. (1981). Heart period variability during estrogen exposure and withdrawal in female rats. <u>Physiology and Behavior</u>, 26, 535-538.
- Porges, S. W., Bohrer, R. E., Cheung, M. s., Drasgow, F., McCabe, P. M., & Keren, G. (1980). New time-series statistic for detecting rhythmic co-occurrence in the frequency domain: The weighted coherence and its application to psychophysiological research. Psychological Bulletin, 88, 580-587.

#### **Submitted for Publication**

Haselton, J. R., Winters, R. W., Haselton, C. L., McCabe, P. M., & Schneiderman, N. Cardiovascular responses elicited by electrical and chemical stimulation of the rostral medullary raphe of the rabbit. <u>Brain Research</u>.

## Submitted for Publication (continued)

- Haselton, J. R., Winters, R. W., Haselton, C. L., McCabe, P. M., & Schneiderman, N. Afferent and efferent functional connections of the rostral medullary raphe in the rabbit. Brain Research.
- Teich, A. H., McCabe, P. M., Gentile, C. G., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. Auditory cortex lesions disrupt acquisition of differential bradycardiac conditioning to tonal stimuli in rabbits. <u>Brain Research</u>.
- Teich, A. H., McCabe, P. M., Gentile, C. G., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. The role of auditory cortx in extinction of classically conditioned heart rate responses in rabbits. <u>Brain Research</u>.
- Gentile, C. G., Teich, A. H., McCabe, P. M., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. Ibotenic acid lesions in amygdaloid central nucleus prevent the acquisition of differentially conditioned bradycardiac responses in rabbits. <u>Brain Research</u>.
- Laperriere, A. R., VanDercar, D. H., Shyu, L. Y., Ward, M. F., McCabe, P. M., Perry, A. C., Mosher, P. E., & Schneiderman, N. Microcomputer servo-controlled bicycle ergometer system for psychophysiological research. <u>Psychophysiology</u>.
- VanDercar, D. H., Laperriere, A. R., Shyu, L. Y., Ward, M. F., McCabe, P. M., Perry, A. C., & Schneiderman, N. Microcomputer automated system for measuring systolic time intervals in response to exercise and a psychophysiological task. Psychophysiology.

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- Teich, A. H., McCabe, P. M., Gentile, C. G., Winters, R. W., Liskowsky, D. R., & Schneiderman, N. (1987). Auditory cortex lesions disrupt differential bradycardiac conditioning to tonal stimuli in rabbits. Society for Neuroscience Abstracts, 13.
- Liskowsky, D. R., Winters, R. W., McCabe, P. M., & Schneiderman, N. (1987). Connections between cardiovascularly related areas in the hypothalamus and the periacqueductal gray region in rabbits. Society for Neuroscience Abstracts, 13.
- Vera, P. L., Liskowsky, D. R., McCabe, P. M., & Schneiderman, N. (1987) Serotonergicand noradrenergic-like immunoreactive terminals in the thoracic intermediate grey matter of the rabbit project to retrogradely identified sympathetic preganglionic neurons. Society for Neuroscience Abstracts, 13.
- Hurwitz, B. E., Dietrich, W. D., McCabe, P. M., Watson, B. D., & Schneiderman, N. (1987). CNS splasticity and behavioral deficit following photochemical infarction of the whisker cortical barrel-feilds. Society for Neuroscience Abstracts, 13.
- Laperriere, A. R., VanDercar, D. H., Shyu, L. Y., Ward, M. F., McCabe, P. M., Perry, A. C., Mosher, P. E., & Schneiderman, N. (1987). Microcomputer servo-controlled bicycle ergometer system for behavioral medicine research. Society of Behavioral Medicine Meetings, Washington, DC.

## Abstracts and Papers Presented (continued)

- Vera, P. L., Ellenberger, H. H., Haselton, J. R., Haselton, C. L., McCabe, P. M., & Schneiderman, N. (1986). Brainstem projections to phrenic nucleus in rabbits and cats. <u>FASEB Abstracts</u>.
- Jarrell, T., Gentile, C., McCabe, P. M., & Schneiderman, N. (1986). Afferent barosensory input is not necessary for acquistion of differential Pavlovian conditioning of bradycardia in rabbits. <u>FASEB Abstracts</u>.
- Weintraub, J. K., Carver, C. S., McCabe, P. M., Spitzer, S., & Schneiderman, N. (1986). Anger, hostility, and reactivity in the Miami Hypertension Project. Society of Behavioral Medicine Meetings, San Francisco.
- Tischenkel, N., Schneiderman, N., Nelesen, R., Vorp, R., Gellman, M., Gerace, T., & McCabe, P. M. (1986). <u>Cardiovascular and neurohormonal baselines and reactivity in the Miami Hypertension Project</u>. Society of Behavioral Medicine Meetings, San Francisco, CA.
- Schneiderman, N., & McCabe, P. M. (1986). <u>Psychophysiologic strategies in laboratory research</u>. NHLBI Conference on methods and measurement in cardiovascular behavioral medicine, Key Biscayne, FL.
- Jarrell, T. W., Gentile, C. G., Romanski, L. M., Rose, B. J., McCabe, P. M., & Schneiderman, N. (1986). The role of cortical and thalamic auditory regions in differential bradycardiac conditioning to acoustic stimuli in rabbits. <u>Society of Neuroscience Abstracts</u>, 12.
- Romanski, L., M., Jarrell, T. W., Gentile, C. G., McCabe, P. M., & Schneiderman, N. (1986). Destruction of intrinsic neurons in the medial geniculate nucleus prevents the acquisition of differential Pavlovian conditioning of bradycardia in rabbits. Society of Neuroscience Abstracts, 12.
- Gentile, C. G., Romanski, L. M., Jarrell, T. W., McCabe, P. M., & Schneiderman, N. (1986). Ibotenic acid lesions in amygdaloid central nucleus prevent the acquisition of differentially conditioned bradycardia responses in rabbits. Society of Neuroscience Abstracts, 12.
- Hurwitz, B. E., Dietrich, L. D., McCabe, P. M., Watson, B. D., & Schneiderman, N. (1986). Behavioral consequences of photochemically induced cortical whisker barrell-field infarction. Society of Neuroscience Abstracts, 12.
- Jarrell, T. W., Gentile, C. G., McCabe, P. M., & Schneiderman, N. (1985). Medial geniculate nucleus as mediator of differentially conditioned bradyucardia in rabbits. Society for Neuroscience Abstracts, 11.
- Gentile, C. G., Jarrell, T. W., Teich, A., McCabe, P. M., & Schneiderman, N. (1985). Amygdala central nucleus as mediator of differentially conditioned bradycardia in rabbits. Society for Neuroscience Abstracts, 11.

## Abstracts (continued)

- McCabe, P. M. <u>Neurobiological bases of differentially conditioned heart rate responses in rabbits</u>. Symposium presentation at the Psychonomic Society meetings, Boston, November 23, 1985.
- McCabe, P. M. Biobehavioral bases of hypertension. Symposium presentation at the Miami Symposium on Stress and Coping, Miami, Febrary 19, 1985.
- Le Blanc, W. G., McCabe, P. M., Haselton, J., Haselton, C. L., Ellenberger, H. H., & Schneiderman, N. Role of the ventrolateral medulla in the control of the cerebral ischemic response in rabbits. <u>Society for Neuroscience Abstracts</u>, 1983, 9.
- McCabe, P. M. The neurobiological basis of conditioned bradycardia: Efferent pathways. Symposium presentation ath the Pavlovian Society annual meetings, St. Petersburg, November 18, 1982.
- Haselton, J. R., Ellenberger, H. H., McCabe, P. M., & Schneiderman, N. Central control of the cardiovascular and respiratory components of the cerebral ischemic response (CIR). Society for Neuroscience Abstracts, 1982, 8.
- Yongue, B. G., McCabe, P. M., Kelley, S. L., Rivera, P., & Porges, S. W. Changes in respiratory modulate component of heart period variability as a result of pharmacological manipulations of vagal tone in rats. Paper presented at Society for Psychophysiological Research, Vancouver, 1980.
- McCabe, P. M., Porges, S. W., & Yongue, B. G. Spectral analysis of heart rate during depressor nerve stimulation: The validation of a non-invasive estimate of vagal tone. Society for Neuroscience Abstracts, 1979, 5, 156.
- Yongue, B. G., Porges, S. W., & McCabe, P. M. <u>Changes in vagal control of the heart following signalled and unsignalled shock</u>. Paper presented at Society for Psychophysiological Research, Cincinnati, 1979.
- McCabe, P. M., Porges, S. W., & Yongue, B. G. The validation of a non-invasive measure of vagal influences on the heart. Paper presented at Society for Psychphysiological Research, Cincinnati, 1979.
- Greenough, W. T., Carter, C. S., Ackerman, T., Reeder, R., Mateer, J., Reeder, T., Lyerla, E., Bohnsak, M., McCabe, P. M., Suits, C., & DeBoogd, T. Sexual dimorphism in dendritic pattern in basal forebrain regions of intact adult hamsters. Society for Neuroscience Abstracts, 1977, 3, 345.