Department Roster

a. Academic Staff
Gilbert S. Greenwald, Ph.D., Distinguished Professor and Chairman
Michael D. Bailie, M.D., Ph.D., Professor (Joint appt., Pediatrics)
Richard L. Clancy, Ph.D., Professor
Russell T. Dowell, Ph.D., Professor
Kenneth L. Goetz, M.D., Ph.D., Adjunct Professor (Director of Research and Head, Div. of Experimental Med., St. Luke's Hosp.)
Norberto C. Gonzalez, M.D., Professor
Donald C. Johnson, Ph.D., Professor (Joint appt., Ob-Gyn)
Theodore Lawwill, M.D., Adjunct Professor (Chairman, Department of Ophthalmology)
Werner K. Noell, M.D., Adjunct Professor (Joint appt., Ophthalmology)
Fred E. Samson, Ph.D., Professor (Director of Ralph Smith Ctr for Mental Retardation)
Lawrence P. Sullivan, Ph.D., Professor
Alan M. Thompson, Ph.D., Professor
Merrill Tarr, Ph.D., Professor
John W. Trank, Ph.D., Professor
James L. Voogt, Ph.D., Professor (Associate Dean of Research)
Paul D. Cheney, Ph.D., Associate Professor
Sudhansu K. Dey, Ph.D., Associate Professor (Joint appt. Ob-Gyn)
Hugo L. Fernandez, Ph.D., Associate Professor (Director, Neurosciences Research Laboratory, VA Hospital)
Paul F. Terranova, Ph.D., Associate Professor
Daniel J. Welling, Ph.D., Adjunct Associate Professor
Richard Edwards, Ph.D., Research Assistant Professor (Joint appt., Medicine)
Thomas J. Imig, Ph.D., Assistant Professor
Philip L. Smith, Ph.D., Assistant Professor
Dennis P. Valenzeno, Ph.D., Assistant Professor

b. Postdoctoral Fellows
Inkyo Kim, M.D.
Maria Kiraly, Ph.D.
Amitabh Krishna, Ph.D.
Richard McCabe, Ph.D.
Anne Morel, Ph.D.
Joong Yol Na, M.D., Ph.D.
Pranab Pakrasi, Ph.D.
Shyamal K. Roy, Ph.D.
Frank Siri, Ph.D.
Shio-Ching Wang, Ph.D.

C. Graduate Students
<table>
<thead>
<tr>
<th>Name</th>
<th>Prelims</th>
<th>Candidate for</th>
<th>Degree Requirements Fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joseph Bauer</td>
<td></td>
<td>M.S.</td>
<td></td>
</tr>
<tr>
<td>Virginia Cassmeyer</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Timothy Griswold</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Curtis Kauer</td>
<td>3/84</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Richard D. McCabe</td>
<td>7/81</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Klaus Mewes</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Mohammad Shaban, M.D.</td>
<td>2/84</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Dwight St. Clair</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Mark Saville</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Joel Stiles</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Patricia A. Tonkowicz</td>
<td>12/80</td>
<td>Ph.D.</td>
<td>12/83</td>
</tr>
<tr>
<td>Dianne L. Vermillion</td>
<td>5/79</td>
<td>Ph.D.</td>
<td>6/84</td>
</tr>
<tr>
<td>Robert Whitman</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Matthew Zupka</td>
<td>11/82</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Lorraine Rome</td>
<td>6/83</td>
<td>M.S.</td>
<td></td>
</tr>
</tbody>
</table>

Postdoctoral Degrees resigned 6/30/84
Notes concerning graduate students:

Virginia Cassmeyer attended the meeting of the Society for the Study of Reproduction in Cleveland, in August.

Tim Griswold attended the 16th annual meeting of the Society for the Study of Reproduction in Cleveland, in August. He participated in Student Research Day with a slide presentation titled "Changes in 17α-hydroxylase/C17,20-lyase activities in ovaries of immature hypophysectomized rats treated with chorionic gonadotropin (hCG).

Curtis Kauer represented the physiology department on the Graduate Student Council serving as Vice-President; he was elected President in April. Curtis also served as Secretary-Treasurer on the Student Union Board of Directors throughout the year. In November Curtis presented a seminar to the Department of Physiology at Kansas State in Manhatten. In April he attended the FASEB meetings in St. Louis and presented a slide session entitled "The effects of moderate exercise on blood flow distribution in female rats." He also presented a slide session entitled "The effects of exercise on reproductive organ blood flow in female rats" at the Kansas Academy of Science meetings in Topeka and at the KUMC Student Research Forum. In May he presented a seminar at Southwestern College and taught surgical techniques to a group of students. He was one of 26 predoctoral students selected to attend a four week course in pathophysiology at the Given Institute of Pathobiology in Aspen this summer.

Lorraine Rome attended the American Society of Nephrology meeting in Washington, D.C. and the FASEB meeting in St. Louis.

Joel Stiles attended the society for Neuroscience Meeting and short course "Molecular Approaches to the Nervous System" in Boston, November 1983. He co-authored three publications: 2 in Neuroscience Letters and 1 in Neurochemical Research. For the second consecutive year Joel was awarded a University of Kansas Medical Alumni Association Biomedical Sciences Scholar Award (academic years 83-85).

Mohammed Shaban attended the Society for the Study of Reproduction meeting in Cleveland in August and presented a poster entitled "Effects of LH on follicular development in the cyclic hamster". He also presented a talk entitled "Delayed puberty in hypoprolactinemic rats is related to suppressed ovarian and serum progesterone" at the Kansas Academy of Science in March 1984 and presented a slide presentation on the same topic on Student Research Day.

Matt Zupka attended the American Society of Nephrology meeting in Washington, D.C. and the FASEB meeting in St. Louis. He presented seminars on the "Effects of Calcium on K Transport" to the Department of Physiology and the Renal Journal Club. Matt also presented a poster on the same topic at the FASEB meeting and a similar slide presentation was given to the K.U. student research forum.
101 - Elementary Physiology (F), part of a 1,000 hour course for Emergency Care. Taught by Dr. Cheney and graduate students. Enrollment 19. Dr. Cheney - coordinator.


804 - Physiology of early pregnancy. 2 credits. Fall 1983. Taught by Dr. Dey. Enrollment 2.


808 - Reproductive Physiology. 2 credits. Summer, 1984. Taught by Dr. Greenwald. Enrollment 3 students.

813 - Cellular Electrophysiology. 2 credits. Spring, 1984. Taught by Dr. Valenzeno and Dr. Tarr. Enrollment 2 students.

822 - Neurophysiology. 3 credits. Fall 1983. Taught by Dr. Cheney and Dr. Imig. Enrollment 3 students.

827 - Physiological Instrumentation I. 2 credits. Fall 1983. Taught by Dr. Trank. Enrollment 1 student.

828 - Physiological Instrumentation II. 2 credits. Spring 1984. Taught by Dr. Trank. Enrollment 1 student.
Department Seminars

9/12/83 Dr. Larry Welling
Department of Pathology, KUMC

9/19/83 Dr. Peter Bie
University of Copenhagen, Denmark

9/26/83 Dr. James Rhodes
Department of Medicine, KUMC

10/3/83 Dr. Thomas J. Imig
Department of Physiology, KUMC

10/10/83 Dr. Kenneth Goetz
St. Lukes Hospital and
Department of Physiology, KUMC

10/17/83 Dr. Bin Ching Wang
Division of Experimental Medicine
St. Luke's Hospital

10/24/83 Dr. Maria Kiraly
Université de Lausanne
Institut de Physiologie
Switzerland

10/31/83 Dr. Philip L. Smith
Department of Physiology, KUMC

11/7/83 Dr. Michael Linshaw
Department of Pediatrics, KUMC

11/14/83 Dr. Joe Kimmel, Assoc. Chief of Staff
VA Medical Center

11/21/83 Curtis Kauer
Department of Biochemistry, KUMC

12/5/83 Dr. Russell T. Dowell
Department of Physiology, KUMC

12/12/83 Dr. Michael Sarras, Jr.
Dept. of Anatomy, KUMC

12/19/83 Matthew Zupka
Department of Physiology, KUMC

Very Fast Video Measurements of Membrane Properties in Nephrons

The Two-Way Relationship Between Vasopressin and the Cardiovascular System

Rat Models for Chronic Exocrine Pancreatic Insufficiency

Organization of the Auditory Thalamus in the Cat

Hemorrhage and Hormones: How does Blood Loss Increase Secretion of Vasopressin and Renin

Effect of Hypoxia and Hypercapnia on Vasopressin and Renin Release

Electrophysiology and Ultrastructural Study of Sympathetic Neurons Infected In Vivo by Herpes Virus Suis (Pseudorabies Virus)

Mechanisms of Luminal Alkalization by Rabbit Descending Colon

Developmental Studies of the Rabbit Proximal Tubule

Perfusion of Pancreatic Acini

Structure of Basement Membrane: Identification of an Autoimmune Antigen (Goodpasture's antigen)

Blood Flow Distribution During Exercise

Perinatal Development of the Mammalian Heart

Expression of Cell Surface Glycoconjugates during Development of the Embryonic Rat Pancreas

Effect of Calcium on Potassium Transport
<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Title</th>
<th>Department/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/20/84</td>
<td>Patricia A. Tonkowicz</td>
<td>Doctoral Dissertation Defense</td>
<td>Department of Physiology, KUMC</td>
</tr>
<tr>
<td>1/9/84</td>
<td>Rick Kasser</td>
<td>Properties of Reciprocally Organized Motor Cortex Cells</td>
<td>Department of Anatomy, KUMC</td>
</tr>
<tr>
<td>1/16/84</td>
<td>Dr. Joseph Lutkenhaus</td>
<td>Cell Division in <em>E. coli</em></td>
<td>Department of Microbiology, KUMC</td>
</tr>
<tr>
<td>1/23/84</td>
<td>Dr. Ronald MacGregor</td>
<td>Synthesis, Secretion and Metabolism of Parathyroid Hormone</td>
<td>Calcium Research Laboratory, KUMC</td>
</tr>
<tr>
<td>1/30/84</td>
<td>Dr. Qais Al-Awqati</td>
<td>Structure and Function of the Na Channel in Epithelia</td>
<td>College of Physicians &amp; Surgeons, Columbia State University</td>
</tr>
<tr>
<td>2/6/84</td>
<td>Dr. Howard Erickson</td>
<td>Cardiopulmonary Response to Exercise in Domestic Animals</td>
<td>Department of Anatomy &amp; Physiology, Kansas State University</td>
</tr>
<tr>
<td>2/13/84</td>
<td>Dr. Paul Terranova</td>
<td>The Interaction of FSH and LH in Regulation of Follicular Development</td>
<td>Department of Physiology, KUMC</td>
</tr>
<tr>
<td>2/22/84</td>
<td>Dr. N.R. Moudgal</td>
<td>Studies on Follicular Atresia in the Rat</td>
<td>Laboratory of Endocrine Biochemistry, Indian Institute of Science</td>
</tr>
<tr>
<td>2/27/84</td>
<td>Dr. Lynn Churchill</td>
<td>Mechanisms of Calcium Mediated Colonic Secretion</td>
<td>Department of Anatomy</td>
</tr>
<tr>
<td>3/5/84</td>
<td>Richard McCabe</td>
<td>Increase in Unit Activity in the Rat Superior Colliculus: Dose-Response, Sites of Action and Cholinergic Receptors</td>
<td>Department of Physiology, KUMC</td>
</tr>
<tr>
<td>3/12/84</td>
<td>Dr. Paul Cheney</td>
<td>Physiology and Biochemistry of Placental Lactogen in the Mouse</td>
<td>Department of Physiology, KUMC</td>
</tr>
<tr>
<td>3/19/84</td>
<td>Dr. Frank Talamantes</td>
<td>In Situ and In Vitro Models for Drug Absorption</td>
<td>Division of Natural Sciences, University of California, Santa Cruz</td>
</tr>
<tr>
<td>3/26/84</td>
<td>Dr. Colin Gardner</td>
<td></td>
<td>INTERX, Merck, Sharp &amp; Dohme Research Labs</td>
</tr>
</tbody>
</table>
4/3/84 Dr. Robert Goy, Director
Wisconsin Regional Primate Ctr
University of Wisconsin

4/9/84 Dr. M. C. Chang
Shrewsbury, MA

4/16/84 Virginia Cassmeyer
Department of Physiology, KUMC

4/23/84 Dr. Hugo Fernandez
Department of Physiology, KUMC

4/30/84 Dr. Don Humphrey
Laboratory of Neurophysiology
Emory University School of Medicine

5/7/84 Dr. Tim Griswold
Department of Physiology, KUMC

5/14/84 Dr. David Schomberg
Department of Physiology
Duke University Medical Center

5/21/84 Joel Stiles
Department of Physiology, KUMC

5/25/84 Dr. Hiroaki Soma
Dept. of Obstetrics & Gynecology
Tokyo Medical College Hospital

6/8/84 Dr. George Seidel, Jr.
Animal Reproduction Laboratory
Colorado State University

6/11/84 Dianne Vermillion
Doctoral Dissertation Defense
Department of Physiology, KUMC

6/13/84 Dr. Nathaniel Mills
Department of Reproductive Biology
Case Western Reserve University

6/20/84 Dr. Michael Soares
Department of Cell Biology
Baylor College of Medicine

7/13/84 Dr. R. J. Dash
Department of Endocrinology
Postgraduate Institute of Medical
Education and Research
Chandigarh, India

Brain Mechanisms of Sexual Behavior and Endocrine Function in Male Rhesus Monkeys

In Vitro Fertilization and Egg-Transfer: Historical Perspectives

Reproduction Function in Diabetic Hamsters

Skeletal Muscle Acetylcholinesterase Molecular Forms During Postnatal Development

Multiple Function of Motor Cortex in the Control of Movement and Posture

Ovarian 17-α-Hydroxy Lyase and C-17, 20 Lyase Activities Following Various Stimulations

Hormones and Growth Factors in the Regulation of Granulosa Cell Differentiation

The Fate of Acetylcholine in the Synaptic Cleft

The Role of Coagulation and Fibrinolytic Activity During Placental Separation

Microsurgery of Mammalian Embryos

A Pharmacological Analysis of the Neural Control of the Circular Muscle of the Guinea Pig Small Intestine

Comparison of Human Placental Lactogen mRNA Levels from Diabetic and Normal Pregnancies

Placental Lactogens and Trophoblast Giant Cell Differentiation in the Rat

Spare hCG Receptors in Rat Gonads During Sexual Maturation
PUBLICATIONS

a. Published during year - July 1, 1983 - June 30, 1984


Pakrasi, P.L., Dey, S.K. and Johnson, D.C. Studies on the temporal pattern of prostaglandin synthesis in the uterus of the delayed implanting rat with or without


Samson, F.E. and Nelson, S.R. Brain regional mapping. Research as the basis for Modern Health Care, Proceedings of the University of Kansas Medical Center Research Week (pp. 157-161), 1983.


b. In press


Cheney, P.D. Role of the cerebral cortex in intended movements. Physical Therapy.


Donoso, J.A. and Samson, F.E. Mechanisms of neurotoxicity of anticancer drugs. In K. Blum and L. Manzo (Eds.), Neurotoxicology (Chapter 12), New York: Marcel Dekker, Inc.


Imig, T.J. and Morel, A. Topographic and cytoarchitectonic organization of thalamic neurons related to their targets in low, middle and high frequency representations in cat auditory cortex. J. Comp. Neurol.


Kim, I., Shaha, C. and Greenwald, G.S. A species difference between hamster and rat in the effect of oestrogens on growth of large preantral follicles. J. Reprod. Fert.


Oxberry, B.A., S.L. Silavin and Greenwald, G.S. Quantitative changes in gonadotropin receptors in the hamster granulosa-luteal cell following the preovulatory gonadotropin surge. Proc. 5th Annual Ovarian Workshop (Ryan, R. ed.).


Roy, S.K. and Greenwald, G.S. Evidence for binding sites for FSH and hCG in mammalian oocytes. Proc. 5th Annual Ovarian Workshop (Ryan, R. ed.).


Silavin, S.L. and Greenwald, G.S. Steroid production by isolated theca and granulosa cells after initiation of atresia in the hamster. J. Reprod. Fert.

Terranova, Paul F. Editor, Student Research Papers: Medical Student Research Training Program. The University of Kansas College of Health Sciences and Hospital: School of Medicine, Volume IV, Fall, 1983.


Wang, S.-C. and Greenwald, G.S. Alterations in follicular function in the proestrous hamster by the injection of cycloheximide. Proc. 5th Annual Ovarian Workshop (Ryan, R. ed.).


**c. Abstracts**


Imig, T.J. and Morel, A. A model of the tonotopic organization of the ventral nucleus (V) and lateral part of the posterior group of thalamic nuclei (Po) in the cat. Society for Neuroscience Annual Meeting, 1984.


RESEARCH SUPPORT

KUMC Visiting Scientist Program for Neuroscience. $2,100.


S. K. Dey: NIH - Role of histamine in early pregnancy. 3/1/82-2/28/85. Direct costs $149,767 (direct costs); $48,133 (indirect costs).
NIH - Steroid hormones and embryo development. 07/01/80-12/30/83. Direct costs $76,733; Indirect costs $25,922.


NIH-HL06622 - NRSA post doc. Fellowship to Dr. F.M. Siri: R.T. Dowell preceptor -34,776.

H. L. Fernandez: VA Merit Review Program - Muscle Degeneration - Regeneration. 04/01/83 - 03/31/86. Second year direct costs $85,823
VA Innovative Aging Research Program - Acetylcholinesterase Molecular Forms in Aging Mammalian Skeletal Muscle. 06/30/83-07/01/85. Second year direct costs $41,382.
Muscular Dystrophy Association - Regulation of acetylcholinesterase at the neuromuscular junction. 01/01/82-01/01/85. Third year direct costs $23,148; indirect costs $1,852.
ALS-KUMC-Research Center - Studies on acetylcholinesterase molecular forms in amyotrophic lateral sclerosis. 07/01/82-06/30/85. Second year direct costs $23,000.

K. L. Goetz: NIH (National Heart, Lung and Blood Institute). Cardiovascular Reflexes, 7/1/82-6/30/85. Direct costs $61,280 for period 7/1/83-6/30/84.


G. S. Greenwald: NICHD - Follicular and Luteal Regulation in the Mammalian Ovary, January 1, 1984 - December 30, 1988 - 22nd year: Direct costs $88,595; Indirect costs $19,225. Total award $107,820.
Rockefeller Foundation Fellowship - S.K. Roy, $20,000/year.
Rockefeller Foundation Fellowship - I. Kim, $25,000/year.

T. J. Imig: NINCDS 04/01/83-04/01/84 "Organization of thalamo cortical auditory system. $35,297 direct costs, $7,073 Indirect costs.
BRSG-KUMC "Organization of thalamocortical auditory system, $5,000 direct costs. June 1, 1984 to December 31, 1984.
D. C. Johnson: NIH (NICHD) - Reproductive hormone interactions in the ovary. March 1, 1982 - February 28, 1985. $41,795 annual direct costs; $15,746 indirect costs.

NIH (NICHD) 07/01/83-06/30/86. "Experimental uterine infertility". Annual direct costs $35,583; indirect costs $8,680.


NTCHHD - Superovulation and Cystic Follicles: role of LH. 04/01/83 - 03/31/84. Direct costs $25,174; Indirect costs $6,256.

BRSG (Research Office KUMC) - Aged Antral Follicles and Atresia. Direct costs $5,000. Visiting Scientist Program (Research Office). Direct costs $2,500.


D. J. Welling: Principal Investigator; Public Health Service Grant AM33003-01, Rate of Cyst Development in Renal Cystic Disease Models. 3 year grant, December 1, 1983 to November 31, 1986; current year $31,139.


ACTIVITIES OF STAFF

Paul D. Cheney, Ph.D., Associate Professor

Meetings Attended:
August 24-26, 1983 - Attended the Satellite Symposium in Melbourne, Australia on Hand Function and Neocortex held in conjunction with the International Physiology Congress and presented a paper entitled "Motor and sensory properties of primate corticomotoneuronal cells".
August 28-September 3 - Attended the International Physiology Congress in Sydney, Australia and presented a paper entitled "Primate corticomotoneuronal cells: output organization and functional properties" as part of a symposium on Cortical Involvement in Movement.
November 6-12 - Attended the Neuroscience Society Meeting in Boston, MA and presented 2 posters.
March 30 - Attended the Kansas Academy of Science Meeting in Topeka, KS and presented a paper.

Committees:
Member, KUMC Animal Care Committee
Member, Dissertation Committee for Dianne Vermillion.
Member, Student Promotions Subcommittee of the Academic Committee
KUMC Minority Recruitment Coordination representative
Coordinator, KUMC Neuroscience Selectives program.
Chairman, AAUP (KUMC) Faculty Salary Committee.
Member, KUMC - ALS Regional Research Center Peer Review Committee.

Editorial and Grant Reviews:
ad hoc reviewer - NSF (Neurobiology)

Academic Honors
August 28-September 3, 1983. Invited speaker at a Symposium on Cortical Involvement in Movement at the International Physiology Congress in Sydney, Australia

Seminars presented:
Oct. 7, 1983 - Presented a paper entitled "Computerized data acquisition and analysis in Neurophysiology" at the second annual KUMC Research Week.
March 12, 1983 - Presented departmental seminar entitled "DFP induced increase in unit activity in the rat superior colliculus: dose-response, sites of action and cholinergic receptors".

Teaching activities:
Medical Physiology
10 hours lecture, Neurophysiology
12 conferences (prepared one)
5 laboratories
1 demonstration
Neurophysiology 822
4 - 3 hour lecture/discussion sessions
Physiology 101
Faculty Coordinator
Physical Therapy - advanced topics
3 hours lecture
Neuroscience Selectives
30 min. lecture on neural basis of Alzheimer's disease.

Trainees:
James Applebaum - Medical student on summer research fellowship.
Klaus Mewes - Graduate student.
Jerry Bowen - Computer Science.

Richard L. Clancy, Ph.D., Professor
Meetings attended:
August, 1983 - Attended Fall meeting, American Physiological Society.
April 1-5, 1984 - Attended FASEB meetings in St. Louis, MO.

Committees:
Departmental:
Chairman, Physiology Department Graduate Student Committee
Local:
KUMC Graduate School Council
KUMC Elections Committee, School of Medicine

Editorial and Grant Reviews:
ad hoc reviewer - J. Laboratory and Clinical Medicine

Teaching Activities:
Medical Physiology 770-771
8 hours lecture - Cardiovascular
20 hours laboratory
24 hours conferences
12 hours tutorial
National Board Review (2 hours lecture)
Physiology 705, Advanced Human Physiology
10 hours lecture - Cardiovascular
8 hours tutorial

Trainees:
Dwight St. Clair - Graduate Student

Sudhansu K. Dey, Ph.D., Associate Professor
Meetings attended:
June, 1984 - Attended VII International Congress of Endocrinology, Quebec City, Canada.
Committees:
Member, KUMC Research Committee
Member, KUMC Animal Care Committee
Member, Research Space Subcommittee
Secretary, Sigma Xi, KUMC Chapter
Member, Promotion and Publicity Committee, Research Week, 1983
Member, Selection Committee for new Assistant Professor, Dept. of Physiology.

Editorial and Grant Reviews:
ad hoc reviewer - NTH (Human Embryology Study Section)
ad hoc reviewer - NSF (Regulatory and Developmental Biology)
ad hoc reviewer - Secretariat on Science, Research & Development, British Columbia, Canada
ad hoc reviewer - Biology of Reproduction
ad hoc reviewer - Journal Reproduction and Fertility
ad hoc reviewer - Endocrinology
ad hoc reviewer - Developmental Biology

Seminars presented:
October, 1983 - KUMC Research Week, Reproductive Biology Symposium
December, 1983 - two presentations at the Indo-U.S. Workshop and Symposium of Blastocysts in Bangalore, India.
March, 1984 - two presentations, Community Health Speakers Bureau, Kansas City, KS.
June, 1984 - presented seminar at the Workshop in Reproductive Biology, University of Missouri, Columbia, MO.

Teaching Activities:
Medical Physiology
30 hours laboratory
24 hours conference
Physiology 804 - Physiology of Early Pregnancy
25 hours lecture

Trainees:
Dr. P.L. Pakrasi, Research Associate
Betsy Kantor, Medical Student
Cira Garcia - Medical Student
Mark Saville - Graduate Student

Russell T. Dowell, Ph.D., Professor

Meetings Attended:
September 21-26, 1983 - Attended International Society for Heart Research meeting held in Hilton Head, South Carolina and presented a paper.
April 1-7, 1984 - Attended FASEB annual meeting in St. Louis, MO and presented a paper.

Committees:
Member, departmental Graduate Student Committee
Member, Graduate Travel Committee, KUMC
Member, Board of Directors, American Heart Association, Greater K.C. Division.

Editorial Reviews
ad hoc reviewer - American Journal of Physiology
ad hoc reviewer - Journal of Applied Physiology
ad hoc reviewer - Medicine and Science in Sports and Exercise
ad hoc reviewer - NIH
supplement application - "Energy metabolism in hypertrophied rabbit heart"
RFA - "Cardiac hypertrophy and failure in chronic hypertension"
conference grant application - "International symposium on intracellular protein catabolism"
site visit, SCOR, Ischemic heart disease - Washington Univ. Sch. Med., St. Louis, MO.
site visit, SCOR, Ischemic heart disease - Baylor College of Med., Houston, TX.
KUMC In-house review program for grant applications.
Speas Foundation ad hoc review committee.

Seminars presented:
October, 1983 - Presented seminar to the Department of Anatomy & Physiology, Kansas State University, Manhattan, KS
December 5, 1983 - Presented departmental seminar entitled "Perinatal Development of the Mammalian Heart"
February, 1984 - KUMC Sigma Xi Lecture entitled "Heart adaptation; Normal perinatal development and responses to imposed stresses".
March, 1984 - Presented seminar entitled "Nutritional modification of perinatal heart development" to the Department of Anatomy, KUMC

Teaching activities:
Medical Physiology
  4 hours lecture
  12 conferences
  5 student laboratories
Physiology 705
  8 lectures, Respiratory Physiology
National Board review session
Faculty participant, Kansas Circuit Course for Physicians, "Cardiac Exercise Physiology".

Trainees:
Curtis Kauer - Graduate Student
Frank Siri, Ph.D. - postdoctoral fellow
Roger Thomas - Master's candidate: Lawrence campus (summer)

Hugo L. Fernandez, Ph.D., Associate Professor

Meetings Attended:
November 6-11, 1983 - Attended the 13th Annual Meeting of the Society for Neurosciences, Boston, Massachusetts.

Committees:
Chairman, Research Safety Subcommittee, VA Medical Center.
Member, Research Space Subcommittee, VA Medical Center
Member, KUMC-ALS Regional Research Center Peer Review Committee
Member, Student's Award Committee, Department of Physiology, KUMC
Member, Faculty Search Committee, Department of Physiology, KUMC
Editorial and Grant Reviews:
ad hoc reviewer - Experimental Neurology
ad hoc reviewer - J. Neurobiology
ad hoc reviewer - J. Neuroscience
ad hoc reviewer - Neuroscience Letters
National Institutes of Health
National Science Foundation

Academic Honors:
Appointed regular member of International Society for Developmental Neuroscience.

Seminars presented:
July 5, 1983 - "Acetylcholinesterase and ALS", Summer Research Training Program, KUMC.
July 13, 1983 - "Neural control of muscle acetylcholinesterase molecular forms", Department of Neuroscience, University of British Columbia, Vancouver, Canada.
March 7, 1984 - "Nerve-target cell interactions", Neuroscience Selective Program, KUMC.
April 23, 1984 - "Skeletal muscle acetylcholinesterase molecular forms during postnatal development", Department of Physiology, KUMC.

Teaching Activities:
Medical Physiology
7 hours lecture, Neurophysiology
12 conferences
7 laboratory sessions
Responsible for Myasthenia Gravis Conference

Neuroscience Selective Program:
Responsible for Session on Neuromuscular Diseases

Trainees:
Joel Stiles, M.D.-Ph.D. program
Thomas Seiter, Pre-Medical Summer Student
Peter Brady, Medical Student - summer

Kenneth L. Goetz, M.D., Ph.D., Adjunct Professor

Meetings Attended:
November 14-17, 1983 - American Heart Association, Anaheim, California.
April 1-6, 1983 - Attended FASEB meetings, St. Louis, MO.

Committees:
Chairman, Research Committee, St. Luke's Hospital
Chairman, Continuing Medical Education Committee, St. Luke's Hospital
Chairman, Animal Care Committee, St. Luke's Hospital
Member, Education and Research Committee, St. Luke's Hospital
Member, Institutional Review Board, St. Luke's Hospital
Member, Board of Directors, Greater Kansas City Div., American Heart Association
Member, Cardiovascular Research Peer Review Committee, Kansas Heart Association
Editorial and Grant Reviews:
- ad hoc reviewer - American Journal of Physiology
- ad hoc reviewer - Circulation Research
- ad hoc reviewer - Federation Proceedings
- ad hoc reviewer - Hypertension
- reviewed grant application for National Institutes of Health

Academic Honors:
July 11-13, 1983 - Invited to serve as external reviewer for program project, Physiology Department, State University of New York at Buffalo, and to present seminar entitled, "Effects of sinoaortic and cardiac receptors on vasopressin, renin, and cardiovascular function".
September 13-14, 1983 - Invited to Department of Physiology and Biophysics, University of Louisville, to consult with research staff and present seminar entitled, "Effects of cardiac and sinoaortic receptors on the regulation of vasopressin and renin during hemorrhage".
April 24, 1984 - Presented guest lecture at Harvard Medical School, Boston, Mass. R. J. Reynolds seminar for Multidisciplinary Program in Cardiovascular Diseases was entitled "Cardiovascular and renal effects of reflexes from the heart".
June 10-15, 1984 - Invited speaker ("Physiology of right and left atrial receptors"), Symposium on Neural Regulation of the Circulation, FASEB summer research conference, Saxtons, River, VT.

Seminars presented:
October 10, 1983 - presented departmental seminar entitled "Hemorrhage and hormones: how does blood loss increase secretion of vasopressin and renin?".

Teaching Activities:
Taught four sessions (10 hours each) of cardiovascular physiology for the Critical Care Nursing Program sponsored by Research and Bethany Medical Centers and St. Luke's Hospital.

Norberto C. Gonzalez, M.D., Professor

Meetings Attended:
July 7-9, 1983 - Invited to participate in symposium on "Biology of Cardiac Overload" at Jouy-en-Josas, France. Presentation entitled "Adrenalectomy moderates the development of pressure-induced left ventricular hypertrophy".
September 21-24, 1983 - Meeting of the American Section of the International Society for Heart Research. Hilton Head Island, South Carolina. Poster presentation: "Adrenal steroids and pressure-induced left ventricular hypertrophy".
April 2-4, 1984 - FASEB meeting, St. Louis, MO. Poster presentation: "Catecholamine stimulation of a HCO3/Cl exchange in mammalian myocardium".

Committees:
In charge of grading system for the Medical Physiology Course.
Member of the Scheduling Committee for the Medical Physiology course.
Member, Cardiovascular Peer Review Committee, American Heart Association, Kansas Affiliate.
Member, Board of Directors, American Heart Association, Kansas Affiliate.
Editorial and Grant Reviews:
- ad hoc reviewer - National Science Foundation
- ad hoc reviewer - Journal of Applied Physiology
- ad hoc reviewer - Journal of Experimental Biology

Seminars presented:
July 11, 1983 - Lecture at the Institute du Reanimation, Hospital, Claude Bernard, Paris, France. "Intracellular pH regulation of normal and hypertrophic left ventricle".
July 13, 1983 - Lecture at the Laboratoire de Physiologie Respiratoire, Strasbourg, France: "Role of Cl/HC03 and Na/H exchanges in the regulation of cardiac and skeletal muscle pH".

Teaching activities:
Medical Physiology
- 12 hours lecture - Respiratory Physiology
- two 3-hour demonstrations
- two 3-hour study sessions.
- 12 conferences
- 5 laboratories
National Board Review
- 3 hours lecture
Physiology 388
- 6 hours lecture - Physiology of Respiration

Trainees:
- Robert Henry, Medical Student

Gilbert S. Greenwald, Ph.D., Distinguished Professor and Chairman

Meetings Attended:
July, 1983 - Attended the meeting of the Society for the Study of Reproduction; chaired session.
August, 1983 - Attended the American Physiology Society Fall Meeting; presented paper and chaired session.

Committees:
Departmental:
- Chairman, Search Committee for faculty position in Physiology
KUMC:
- Chairman, Search Committee for Chairman of Microbiology Department
- Member, Steering Committee for 5 year plan
- Chairman, Incentives for Basic Science Faculty
- Member, Search Committee for Wilkinson Professorship for Cancer Research.
- Member, Search Committee for Vice Chancellor for Policy and Planning
- Member, Academic Track Committee
- Member, Program Development Committee, 2nd Annual Research Week
National:
- Member, Regulatory Biology Panel, NSF
Consultant: Endotronics Inc.

Editorial and Grant Reviews:
- ad hoc reviewer - Biology of Reproduction
- ad hoc reviewer - J. Reproduction and Fertility
- ad hoc reviewer - Endocrinology
- ad hoc reviewer - Science
ad hoc reviewer - Fertility and Sterility
ad hoc reviewer - Canadian J. of Zoology

Seminars presented:
August, 1983 - Department of Anatomy & Reproductive Biology - University of Hawaii.
October, 1983 - Tea and talk lecture for Graduate Faculty, University of Kansas, Lawrence
March, 1984 - Sigma Xi lecture, KUMC Chapter
June, 1984 - Workshop on Reproduction, Columbia, MO.

Teaching activities:
Medical Physiology (Class coordinator)
Physiology 383
4 hours lecture - G.I. Physiology
Physiology 806 - Endocrinology (Graduate course)
8 lectures
Physiology 808 - Reproductive Physiology (Graduate Course)

Trainees:
Shiow-Ching Wang, Ph.D. - Postdoctoral Fellow
Inkyo Kim, M.D., Ph.D. - Postdoctoral Fellow
Shyamal Roy, Ph.D. - Postdoctoral Fellow

Thomas J. Imig, Ph.D., Assistant Professor

Meetings Attended:
August, 1983 - Attended IUPS Symposium on Mechanism of Hearing, Monash University, Clayton Victoria, Australia and presented paper entitled "A model of the tonotopic organization of the ventral nucleus of the cat's medial geniculate body".
May, 1984 - Attended Symposium "Two Hemispheres, One Brain" dedicated to Roger Sperry, at the University of Montreal, Montreal, Canada and presented a paper entitled "Topography of corticocortical connections related to tonotopic and binaural maps of cat auditory cortex".

Committees:
Departmental librarian
Member, Medical School Admissions Committee

Editorial and Grant Reviews:
ad hoc reviewer - Journal of Neurophysiology
ad hoc reviewer - Journal of Neuroscience
ad hoc reviewer - Experimental Neurology
ad hoc reviewer - Science

Seminars presented:
May, 1984 - Presented seminar entitled "Tonotopic and topographic organization of the auditory thalamus" to the Department of Psychology, Carleton University, Ottawa, Canada.

Teaching Activities:
Medical Physiology
8 hours lecture
12 conferences
7 laboratories
Physiology 33
8 lectures
National Board Review Session
Graduate course in Neurophysiology
4 - 3 hour sessions

Trainees:
Anne Morel, Ph.D. - Postdoctoral Fellow
Chris Wright - Medical Student

Donald C. Johnson, Ph.D., Professor
Meetings Attended:
August 7-10, 1983 - Attended the Society for the Study of Reproduction meeting in
Cleveland, Ohio.

Committees:
Member, Medical Faculty Steering Committee
Chairman, Radiation Safety Committee

Editorial and Grant Reviews:
ad hoc reviewer - Biology Reproduction
ad hoc reviewer - Journal of Reproduction and Fertility
ad hoc reviewer - Endocrinology
ad hoc reviewer - Diabetes

Teaching Activities:
Medical Physiology
  12 conferences
  6 laboratory sessions
Physiology 705 - Advanced Human Physiology
  8 hours lecture - Endocrinology
Endocrinology 806
  8 lectures (Class coordinator)

Trainees:
Tim Griswold - Graduate Student
Virginia Cassmeyer - Graduate Student
Sharon Bearce - Medical Student

Fred E. Samson, Ph.D., Professor
Meetings Attended:
August 25-28, 1983 - Attended the San Diego, CA meeting of the Society of
Toxicology and presented research on seizures at symposium.
October 31-November 1, 1983 - Attended meeting of MRRC Directors held in Washing-
ton, D.C.
November 7-10 - Attended annual Meeting of the Society for Neuroscience held in
Boston, MA and presented two poster sessions.
April 2-4, 1984 - Attended annual FASEB meeting held in St. Louis, MO and presented
a poster session.
May 28-29, 1984 - Attended meeting of MRRC Directors held in Minneapolis, MN.
May 30-June 1, 1984 - Attended U.S. Army Medical Research IV Annual Bioscience
Review at the Aberdeen Proving Ground, MD. to present research on seizures.
Committees:

KUMC:
- Director, Ralph L. Smith Research Center
- Member, Promotions and Tenure Committee, School of Medicine
- Chairman, Graduate Student Travel Scholarship Committee
- Chairman, Faculty International Travel Scholarship Committee
- Member, International Cell Biology Program (KU-Valencia) Committee
- Member, Research Committee for KUMC 5 year plan
- Scrivener-Scribe, Department of Physiology

Local:
- The University of Chicago Alumni Fund, Greater Kansas City Area
- Member, The University of Chicago Club of Kansas City

National:
- American Society for Neurochemistry (Standing Rules Committee, 1982-84)

Editorial and Grant Reviews:
- Occasionally of articles submitted to journals in Neurobiology
- Member, Scientific Advisory Board of the Encyclopedia of Neuroscience now in preparation to be published by Birkhauser Verlag.

Honors:
- Invited to M.I.T. for the period of July 7-27 to assist Professor F.O. Schmitt with a paper on the topic of "informational substances in the brain".
- Invitation to present symposium talk to the Toxicology Society, San Diego, CA. in August, 1983.

Seminars presented:
- February 29, 1984 - Presented seminar entitled "Rebuilding the brain: A brain transplant proposal" to the KUMC Chapter, Society for Neuroscience.

Teaching activities:
- Physiology 388
  - 4 hours lecture
- Medical Physiology - Physiology 800
  - 12 - 2 hour Conferences
- Advanced Study 890
  - 13 hours lecture (Lawrence campus)
- Ph.D. Thesis Committees
  - Robert O'Neill, Department of Physiology (Ph.D. Degree granted May 1984)
  - Larry Sheets, Department of Pharmacology
  - James Chastain, Department of Pharmacology
  - Darryl Stone, Department of Pathology (Ph.D. Degree granted May 1984)

Trainees:
- Robert O'Neill - Graduate Student
- Tina Erickson - Graduate Student, Biochemistry (Lawrence campus)

Philip L. Smith, Ph.D., Assistant Professor

Meetings Attended:
- August 22-26, 1983 - Attended symposium on "Epithelial Transport" in Queenstown, New Zealand and presented a paper entitled "In Vitro antisecretory effects of histamine receptor antagonists in isolated rabbit ileum".
- August 28-Sept. 3, 1983 - Attended XXIX Congress of International Union of Physiological Sciences in Sydney Australia and presented a paper entitled
"Potassium transport by rabbit descending colon; Effects of anion exchange inhibitors and pH".

April 1-6, 1984 - Attended FASEB meetings in St. Louis, MO and presented papers entitled "Mechanism of bicarbonate transport by rabbit ileum", "Effects of adrenergic agents on electrolyte transport by the rabbit descending colon", Differential effects of indomethacin on Ca- and cAMP-mediated secretion in rabbit descending colon", and "Bicarbonate (hydrogen) transport by rabbit descending colon".

Committees:
Graduate Student Committee, Physiology Department
In charge of Seminar Scheduling, Physiology Department

Editorial and Grant Reviews:
ad hoc reviewer - National Institutes of Health
ad hoc reviewer - American Journal of Physiology
ad hoc reviewer - J. of Applied Physiology - Respiratory Environmental & Exercise Physiology
ad hoc reviewer - Nature
ad hoc reviewer - Science

Seminars presented:
October 31, 1983 - Departmental seminar entitled "Mechanisms of luminal alkalinization by rabbit descending colon".

Teaching Activities:
Medical Physiology
10 hours lecture - Gastrointestinal
10 conferences
5 laboratories
Responsible for Intestinal Secretion Conference
Responsible for Gastrointestinal motility lab

Physiology 705 - Advanced Human Physiology
10 hours lecture - Gastrointestinal

Trainees:
Richard McCabe - Graduate Student/Postdoctoral Fellow
Steven Sullivan - Premedical Student
Gary Johnson - Medical Student
Michael Kirk - Premedical Student
Dwight St. Clair - Graduate Student
Maria Kiraly - Postdoctoral Fellow

Lawrence P. Sullivan, Ph.D., Professor

Meetings Attended:
December 4-7, 1983 - Attended American Society of Nephrology meeting in Washington, D.C.
April 1-5, 1984 - Attended the Federation of American Societies for Experimental Biology meetings held in St. Louis, MO

Committees:
Member, Renal Dialysis and Transplantation Committee
Member, School of Medicine Research Committee
Member, School of Medicine Promotion and Tenure Committee
Member, VA Hospital Research and Development Committee.
Vice-President, Kidney and Urology Research Center
Scheduler, Renal Journal Club
Chairman, Exec. Committee, KUMC Division of Univ. of Kansas AAUP Chapter
Member, Executive Committee, University AAUP Chapter
Chairman, Nomination Committee, KUMC Sigma Xi Chapter
Member, Departmental Graduate Committee
Chairman, Departmental Committee on Medical Physiology Course

External:
Member, Special Study Sections, NIH, July 1983 and June, 1984
Treasurer, Renal Section, American Physiological Society
Member, Professional Education Committee, Kansas Affiliate, American Heart Assoc.

Editorial and Grant Reviews:
ad hoc reviewer - Journal Lab. and Clin. Medicine

Teaching Activities:
Medical Physiology
7 hours lecture - Renal Physiology
8 problem sessions - 16 hours
12 conferences
7 laboratory sessions

Physiology 705
8 hours lecture

Physiology 388
4 hours lecture

National Board Review
2 hours lecture

School of Medicine Selective Courses
Organized Selective Course on Acute Renal Failure and gave one 30 minute presentation.

Trainees:
Matthew Zupka - Graduate Student
Lorraine Rome - Graduate Student
Holly Behrens - Summer Student

Merrill Tarr, Ph.D., Professor

Editorial Reviews:
ad hoc reviewer - Circulation Research

Seminars Presented:
March 2, 1984 - Using FOR... NEXT Loops in Programs. Continuing Education course The Microcomputer Jungle: Impact on Health Care, KUMC.
June 4, 1984 - Use of single cardiac cells in studies of myocardial contractility. Gerontology Research Center, National Institute on Aging, Baltimore.
June 5, 1984 - Use of single cardiac cells in studies of myocardial contractility. Biomedical Engineering Department, John Hopkins Medical Center, Baltimore.

Teaching Activities:
Medical Physiology
10 hours lecture
6 hours review sessions
12 conference sessions/2 hours each
6 laboratories
Physiology 705
  8 hours lecture
  1 hour review
Physiology 811 (Cellular Electrophysiology)
  16 class sessions of 2 hours each
National Board Review
  2 hours lecture

Paul F. Terranova, Ph.D., Associate Professor

Meetings Attended:

Committees:
  Departmental:
    Member, Graduate Committee
    Member, Search Committee for departmental faculty position
    Member, Dissertation Committee for Pat Tonkowicz
  Local:
    Member, Steering Committee (Medical School)
    Member, Intercampus Liaison (College of Health Sciences)
    Member, Patent Committee (College of Health Sciences)
    Member, Research Space Utilization Subcommittee (College of Health Sciences)
    Coordinator, Summer Medical Student Research Traineeship program
    Pediatrics Chair Search Committee
  National:
    Chairman, Nominating Committee for Society for the Study of Reproduction

Editorial and Grant Reviews:
  Biology of Reproduction (Editorial Board)
  Endocrinology
  Journal of Reproduction and Fertility
  Science
  Journal of Endocrinology
  Journal of Animal Science
  Proceeding of the National Academy of Science
  NSF (Regulatory Biology)

Seminars presented:
  November, 1983 - Presented a seminar entitled "Role of luteinizing hormone in
  follicle development and atresia" to the Department of Physiology, University
  of Ottawa, Canada.
  November, 1983 - Presented a seminar entitled "Update on polycystic ovarian
  syndrome: clinical and basic aspects" to the Department of Ob-Gyn, University
  of Ottawa, Canada.
  February 13, 1984 - Departmental seminar entitled "The Interaction of FSH and LH in
  Regulation of Follicular Development".
  March, 1984 - KUMC Research Week - "Introduction to Reproduction Symposium: From
  Conception to Parenthood.

Teaching Activities:
  Medical Physiology
    9 hours lecture
    12 conferences
    7 laboratories
Physiology 388
5 hours lecture
Responsible for student evaluation for Medical Physiology course.

Trainees:
Amitabh Krishna, Ph.D. – Postdoctoral Fellow
Joong Yol Na, M.D., Ph.D. – Postdoctoral Fellow
Mohammad Shaban, M.D. – Graduate Student
John Goodwin – Summer Medical Student

John W. Trant, Ph.D., Professor
Meetings Attended:
February, 1984 – Attended the Biophysical Society Meeting in San Antonio, TX.
April, 1984 – Attended FASEB meetings in St. Louis, MO.

Committees:
Departmental:
  Electronic shop supervisory committee
KUMC:
  Computer Committee
  Member of the Faculty and the organizing committee of the "Computer Jungle"
  Continuing Education Course, KUMC.
Local:
  Biomedical Engineering Technician Advisory Committee, Johnson County Community College
  Member, Board of Directors Greater Kansas City Div., American Heart Assoc.
  Member, Nutrition Task Force Greater Kansas City Div., American Heart Assoc.
  Chairman, Community Program Committee Greater Kansas City Division, AHA.
  Member, Kansas Affiliate Board of Directors, American Heart Association.
  Local committee for MARCON, a technical electronics and computer exposition.
National:
  Chairman, Committee on Awards and Honors, Biophysical Society

Teaching Activities:
Medical Physiology
  7 hours lecture
  12 conferences
  7 laboratories
  Laboratory supervision for all Medical Laboratories
National Board Review
  1-1/2 hours lecture
Physiology 388
  7 hours lecture
Physiology 827/828
  Supervision of student computer research problem (Klaus Mewes). Approximately 20 contact hours
  Presented 3 sessions in the Continuing Education course "The Computer Jungle".

Trainees:
Brett Fremming – MS Bioengineering
Dennis P. Valenzano, Ph.D., Assistant Professor

Meetings Attended:

February 19-23, 1984 - Attended 28th annual meeting of the Biophysical Society held in San Antonio, TX.

Committees:

Member, Committee to review medical physiology laboratories

Editorial Reviews:

ad hoc reviewer - Photochemistry and Photobiology

Seminars presented:

June 4, 1984 - Presented seminar entitled "Surface charge effects on membrane photomodification with hematoporphyrin derivative" in the Medical Student Summer Research Training Program Seminar Series.

Teaching Activities:

Medical Physiology
6 hours lecture
12 conferences
7 laboratories

Physiology 388
4 hours lecture
Course director

Physiology 811: Cellular Electrophysiology
16 - 2 hours sessions

National Board Review
1-1/2 hours lecture

James L. Voogt, Ph.D., Professor (Associate Dean for Research)

Meetings Attended:

April, 1984 - Attended FASEB meeting in St. Louis, MO.
June, 1984 - Attended and presented poster at IV International Congress of Prolactin held in Charlottesville, Virginia.

Committees:

Departmental:
Member, Graduate Committee
Member, Search Committee for new faculty member

Local:
Member, Research Committee, Medical School
Biological Sciences Lecture Series
Five Year Plan Facilities Committee

National:
Public Affairs Advisory Committee of the American Physiological Society

Editorial and Grant Reviews:

Editorial Board - American Journal of Physiology
ad hoc reviewer - Life Sciences
ad hoc reviewer - Endocrinology
ad hoc reviewer - Biology of Reproduction
ad hoc reviewer - Neuroendocrinology
NSF grant reviews
Seminars Presented:
November, 1983 - VQE Professor: Al Hada Hospital, Taif, Saudi Arabia
January 9, 1984 - Sigma Xi Seminar entitled "Does the placenta control pituitary prolactin secretion?"
May 30, 1984 - Presented KUMC seminar entitled "Factors controlling rPL secretion.

Teaching Activities:
Medical Physiology
  9 hours lecture
  12 conferences
  7 laboratories
Physiology 806
  2 lectures

Trainees:
Diane Persons - Medical Student

Daniel J. Welling, Ph.D., Adjunct Associate Professor

Meetings Attended:
December, 1983 - Presentation of work to the American Society of Nephrology, Washington, D.C.
April, 1984 - Presentation of work to the Federation of American Societies for Experimental Biology in St. Louis, MO.
June, 1984 - Invited discussant, International Congress of Nephrology, Los Angeles, CA.

Committees:
Departmental
  Ph.D. Committee for Richard McCabe
Local
  Member, American Society of Nephrology
  Member, International Society of Nephrology
  Member, Society of Sigma Xi

Editorial and Grant Reviews:
  Reviewed articles for American Journal of Physiology
  Reviewed articles for Kidney International
  Reviewed articles for Journal of Laboratory and Clinical Medicine
  Reviewed National Institutes of Health.

Seminars presented:
January 1984 - Invited presentation, Department of Physiology, Cornell University Medical School of New York, N.Y.
January, 1984 - Invited presentation, Department of Physiology, Yale University Medical School, New Haven, Conn.
February, 1984 - Invited presentation, Department of Medicine, Division of Nephrology, University of California at San Francisco.

Teaching Activities:
  Lectures on Ion and Water transport in transport course.
Chairman's Report

This is the 8th Annual Report in which I have been involved and the danger of my summary degenerating into a stereotyped series of buzzwords and statements grows year by year. However, to start with one of my standard cliches, the past year has been a good one for the department - but it could be better. It is convenient to consider three major aspects of the Department:

Faculty. It is with regret that Dr. Alan Thompson, for reasons of health, resigned from the Department in April, 1984. His contributions over the years led to the present status of the department and he will be sorely missed. A replacement for Dr. Thompson was named on August 1, 1984 when Dr. Michael Soares joined the department. As of July 1, 1984, Dr. Paul Cheney was appointed associate professor of Physiology, with tenure and Dr. Hugo Fernandez was promoted to full professor (without tenure). Dr. Daniel J. Welling was named Research Professor of Physiology.

Research. Continued evidence of productivity is provided by the list of papers published or in press which amounts to a total of 90 papers for the year. Several years ago, I put forth the modest goal of a minimum of two publications per year per faculty member. It is a cause for some concern that some faculty can't meet this minimal requirement because this also diminishes the chances for sustained grant support at the national level. I never have believed that the health of any department's research program can be judged solely by the grand total of its research grants in dollars and cents but reiterate that a more important goal is to have everyone funded at the national level. Competition at the national level for limited funds is a depressing and persisting situation but one that we have to live with. However, it is perhaps the best benchmark to judge our progress. On that basis, we still have considerable room for improvement.

On the more positive side, the increased involvement of faculty in international meetings, in participation in the affairs of national societies and study sections are all points for elation.

Teaching. In the fall semester, the department taught 225 students from the Schools of Nursing and Allied Health - more than enrolled in the freshman medical class. A point of frustration is the continued efforts by faculty from the former schools to have us establish separate courses for small groups of students when their needs can be accommodated in the present curriculum. The Vice Chancellor of Academic Affairs is in a key position to arbitrate this situation. The course in Medical Physiology was overhauled in January, 1984 and one of our major objectives in the fall is to decide what features should be retained or modified. The size of the entering freshman medical class has been reduced but this will have no effect on the way we teach. Two Ph.D. degrees were completed this past year with at least 3 more to be awarded in FY '85. A bumper crop of new students will begin graduate studies in physiology in the fall of 1984. The long range effects of centralizing student stipends in the graduate school office is of concern and its implications for the logistics of department recruiting needs to be clarified.