a. Academic Staff

Gilbert S. Greenwald, Ph.D., Distinguished Professor and Chairman
Paul D. Cheney, Ph.D., Professor (Director of Ralph L. Smith Center for Mental Retardation)
Richard L. Clancy, Ph.D., Professor
Sudhansu K. Dey, Ph.D., Professor (Joint appt. Ob-Gyn)
Hugo L. Fernandez, Ph.D., Professor (Director, Neurosciences Research Lab., Kansas City VA Hosp.)
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, Dept. of Ophthalmology)
Fred E. Samson, Ph.D., Professor Emeritus
Travis Solomon, M.D., Ph.D., Professor of Physiology and Medicine (Associate Chief of Staff, Kansas City VA Hospital)

Lawrence P. Sullivan, Ph.D., Professor
Merrill Tarr, Ph.D., Professor
Paul F. Terranova, Ph.D., Professor
John W. Trank, Ph.D., Professor
James L. Voogt, Ph.D., Professor
Daniel J. Welling, Ph.D., Research Professor (Kansas City VA Hospital)
Larry Welling, M.D., Ph.D., Professor of Physiology and Pathology (Kansas City VA Hospital)
Thomas J. Imig, Ph.D., Associate Professor
Peter G. Smith, Ph.D., Associate Professor
Michael J. Soares, Ph.D., Associate Professor
Dennis P. Valenzeno, Ph.D., Associate Professor
Bin Ching Wang, Ph.D., Adjunct Associate Professor (St. Luke's Hospital)
Shyamal K. Roy, Ph.D., Research Assistant Professor
Michael J. Rutten, Ph.D., Research Asst. Professor (Kansas City VA Hosp.)
Katherine Wynne-Edwards, Ph.D., Research Assistant Professor
b. Postdoctoral Fellows

Lydia Arbogast, Ph.D.
Pascal Barone, Ph.D.
H.L. Chen, M.D.
Janine Clarey, Ph.D.
Santanu Deb, Ph.D.
Mitsuo Kawashima, Ph.D.
Alok Ranjan Kole, Ph.D.
Klaus Mewes, Ph.D.
Anahita Mistry, Ph.D.
B. C. Paria, Ph.D.
Hemalatha Reddy, M.D.
Katherine Roby, Ph.D.
Maria Sancho-Tello, Ph.D.
Mitra Sen, Ph.D.
Abiotoma Sokari, M.D., Ph.D.
Hiromichi Tamada, Ph.D.
Preeti Venkataraman, M.D.
Gabriela Vidal, M.D.

c. Graduate Students

<table>
<thead>
<tr>
<th>Graduate Students</th>
<th>Prelims</th>
<th>Candidate for</th>
<th>Degree Requirements Fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toni Clinton</td>
<td></td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Sandy Elliott</td>
<td>9/89</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Teresa Faria</td>
<td>12/89</td>
<td>Ph.D.</td>
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<tr>
<td>Jean Heibert</td>
<td></td>
<td>Ph.D.</td>
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<tr>
<td>Andrew Irons</td>
<td>9/86</td>
<td>Ph.D.</td>
<td>9/89</td>
</tr>
<tr>
<td>Curtis Kauer</td>
<td>3/84</td>
<td>Ph.D. (M.D.)</td>
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<tr>
<td>Robert Leadley</td>
<td>8/89</td>
<td>Ph.D.</td>
<td></td>
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<tr>
<td>Joanne Mathiasen</td>
<td>7/90</td>
<td>Ph.D.</td>
<td></td>
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<tr>
<td>Brian McKiernan</td>
<td></td>
<td>Ph.D.</td>
<td></td>
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<tr>
<td>Cathleen Sagrillo</td>
<td>1/89</td>
<td>Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Frank Samson</td>
<td>7/88</td>
<td>Ph.D.</td>
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<tr>
<td>Mark Saville</td>
<td>7/86</td>
<td>M.S.</td>
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<tr>
<td>Joel Stiles</td>
<td>1/86</td>
<td>Ph.D. (M.D.)</td>
<td>3/90</td>
</tr>
<tr>
<td>Xiao-ning Wang</td>
<td>3/88</td>
<td>Ph.D.</td>
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<tr>
<td>Robert Whitman</td>
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<td>Ph.D.</td>
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<tr>
<td>Gail Widener</td>
<td>9/86</td>
<td>Ph.D.</td>
<td>12/89</td>
</tr>
</tbody>
</table>
NOTES CONCERNING GRADUATE STUDENTS:

Toni Clinton presented an abstract entitled "Lupron (Leuprolide Acetate) Stimulates Ovarian Follicular Development in the Cyclic Hamster" at the Mid-West Reproductive Colloquium in October. She also lectured on Reflexes in the 398 Neurophysiology course Fall semester 1989.

Teresa Faria received a Griff T. Ross Award in reproductive endocrinology sponsored by the Endocrine Society. In March she presented a departmental seminar entitled "Ontogeny of Placental Lactogen I and Placental Lactogen II - Expression in the Developing Rat Placenta". At the 72nd annual meeting of the Endocrine Society held in Atlanta, Georgia in June, 1990, she presented an oral communication of the same title. She also lectured on somatic sensation and auditory & oculomotor systems in the 398 Neurophysiology course Fall semester 1989. Teresa coauthored two manuscripts currently in press, "Ontogeny of placental lactogen-I and placental lactogen-II expression in the developing rat placenta" & Localization of placental lactogen-I in trophoblast giant cells of the mouse placenta" and two others which have been submitted for publication, "Transplantable rat choriocarcinoma cells express placental lactogen: identification of placental lactogen-I immunoreactive protein and messenger ribonucleic acid" & Purification and characterization of a new member of the prolactin family: placental lactogen-I variant".

Jean Hiebert lectured on voluntary movement in the 398 Neurophysiology course Fall semester 1988.

Joanne Mathiasen attended the Neuroscience meeting held in Phoenix, Arizona in November, 1989. She gave a presentation at the Student Research Forum in March, 1990, entitled "Dopaminergic influence on prolactin in pregnancy" and also in March made a presentation to the Reproductive and Developmental Biology Group entitled "Dopamine and TRH involvement in the prolactin surges of pregnant rats". In the 1989 Fall semester Joanne presented lectures on Hypothalamus, Development and Aging in the Neurophysiology 398 course.

Cathy Sagrillo presented a departmental seminar in October entitled "Does β-endorphin play a role in maintaining prolactin surges in the pregnant rat?" She attended the Society for Neuroscience meeting held in Phoenix, Arizona in November. In March she participated in Student Research Forum 1990 by giving a talk entitled "Endogenous opioids are necessary for the occurrence of the nocturnal prolactin surge in the pregnant rat". This was then presented as a poster in June at The Endocrine Society meeting held in Atlanta, Georgia. Cathy also lectured on Synaptic Transmission in the 398 Neurophysiology course Fall semester 1989.

Frank Samson attended the 19th Annual Meeting of the Society for Neuroscience held in Phoenix, Arizona, October 29-November 3, 1989. He participated in the Student Research Forum in March with a presentation entitled "Physiological mechanisms of single unit directional selectivity in the cat's primary auditory cortex (AI) revealed by ear occlusion". He also lectured on Resting Membrane Potential and Action Potentials in the 398 Neurophysiology course Fall semester 1989. Frank presented a departmental seminar in April, 1990 entitled "Physiological Mechanisms of Single Unit Directional Selectivity in the Cat's Primary Auditory Cortex (AI), Revealed by Ear Occlusion". Frank co-authored a paper entitled "Single-Unit Selectivity to Azimuthal Direction and Sound Pressure Level of Noise Bursts in Cat High-Frequency Primary Auditory Cortex", Neurophysiol. 63:1448-1466, 1990.
COURSES TAUGHT

398 - Neurophysiology. 3 credits. Fall 1989. Taught by physiology graduate students. Enrollment 53. Dr. Imig organizer.


822 - Neurophysiology. 3 credits. Fall 1989. Taught by Dr. Imig. Enrollment 1.


<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 8/10/89  | Dr. Wolfgang Wuttke  
Department of Ob-Gyn  
University of Gottingen  
Germany             | Release Rates of Oxytocin, Progesterone and Estradiol from Porcine Corpora Lutea as Measured by a Novel In Vivo Microdialysis System |
| 9/14/89  | Andrew Irons  
Department of Physiology, KUMC             | Influence of Stimulus Bandwidth on Azimuth Sensitivity of Single Units in the Cat Auditory Thalamus |
| 9/18/89  | Janine Clarey, Ph.D.  
Department of Physiology, KUMC             | Definition of an Auditory Field Within the Anterior Ectosylvian Sulcus of the Cat |
| 9/20/89  | Dr. Robert M. Brenner  
Div. of Reprod. Biology & Behavior  
Oregon Regional Primate Res. Ctr | Immunochemistry of Estrogen, Progestin, and Androgen Receptors |
| 9/25/89  | Dr. Andrew Parkinson  
Department of Pharmacology, Toxicology and Therapeutics, KUMC | Purification and Characterization of Rat Liver Microsomal Esterases |
| 10/2/89  | Cathleen Sagrillo  
Department of Physiology, KUMC             | Does β-Endorphin Play a Role in Maintaining Prolactin Surges in the Pregnant Rat? |
| 10/10/89 | Dr. Joseph S. Tash  
Department of Cell Biology  
Baylor College of Medicine | Protein Phosphorylation: The Second Messenger Signal Transducer of Flagellar Motility |
| 10/16/89 | Dr. Deborah H. Olster  
Department of Psychology  
Univ. of Massachusetts at Amherst | Steroid Hormone-Induced Lordosis in the Guinea Pig: Development and Sexual Differentiation |
| 10/23/89 | Dr. C. Andrew Powers  
Department of Pharmacology  
New York Medical College | Prolactin Processing by Glandular Kallikrein |
| 10/30/89 | Dr. Richard L. Malvin  
Department of Physiology  
Univ. of Michigan School of Med. | The Wrongs of Animal Rights |
| 11/6/89  | Dr. Dennis A. Magoffin  
Dept. of Reproductive Medicine  
Univ. of California, San Diego | IGF-1 Regulation of Differential Expression of Cytochrome P-450 Genes in Ovarian Thecal Cells |
11/10/89  Dr. Floyd E. Bloom  
Dept. of Neuropharmacology  
Scripps Clinic and Research Found.  
La Jolla, California  
Neurotransmitters and Alcoholism: Implications for Medical Understanding

11/13/89  Dr. Bryan L. Spangelo  
Department of Medicine  
Univ. of Virginia Health Sci. Ctr.  
Immune System Hormones as Anterior Pituitary Releasing Factors

11/20/89  Dr. Daniel A. Rappolee  
Laboratory of Radiobiology and Environmental Health  
Univ. of California, San Francisco  
Growth Factor Ligand-Receptor Circuits for Preimplantation Mouse Embryos

11/27/89  Dr. Ken Audus  
Dept. of Pharmaceutical Chemistry  
University of Kansas, Lawrence  
The Blood Brain Barrier In Vitro: Application in Transport and Metabolic Studies

12/4/89  Dr. Peter D. Wagner  
Department of Medicine  
Univ. of California, San Diego  
Determinants of Maximum Oxygen Uptake

12/11/89  Dr. Brent Vogt  
Department of Anatomy  
Boston University  
Neocortical Muscarinic Receptors: Localization and Alterations Associated with Dementia and Behavioral Conditioning

12/18/89  Dr. Steven M. LeVine  
Department of Psychiatry  
UCLA  
Developmental Expression of Alternatively Spliced Oligodendrocyte mRNAs: Proteolipid and DM20

12/21/89  Gail L. Widener  
Department of Physiology, KUMC  
Effects on Muscle Activity from Somatosensory Cortical Areas 3a, 3b, 1 and 2 in the Awake Monkey

1/22/89  Dr. Helen Maguire  
Dept. of Pharmacology, Toxicology, and Therapeutics, KUMC  
Purines and Autacoids in Regulation of Human Placental Vascular Resistance

1/29/89  Dr. Lawrence P. Sullivan  
Department of Physiology, KUMC  
Factors Involved in Acidosis Induced Swelling in Renal Proximal Tubule

2/5/89  Dr. Norberto Gonzalez  
Department of Physiology, KUMC  
Characteristics of Exercise in Rats Acclimated to Simulated Altitude
<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>2/12/89</td>
<td>Dr. Ronald Borchardt</td>
<td>Dept. of Pharmaceutical Chemistry</td>
<td>Cultured Human Colon Carcinoma Cells (Caco-2): An In Vitro Model System to Study Intestinal Transport of Drugs</td>
</tr>
<tr>
<td></td>
<td>University of Kansas, Lawrence</td>
<td></td>
<td>Antigen Presenting Cells</td>
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<tr>
<td>2/19/89</td>
<td>Dr. Wayne Moore</td>
<td>Department of Pediatrics, KUMC</td>
<td>Neural Regulation of Skeletal Muscle ACHE Isoforms: Effects of Neuromuscular Inactivity and Exercise</td>
</tr>
<tr>
<td>2/26/89</td>
<td>Dr. Hugo Fernandez</td>
<td>Department of Physiology, KUMC</td>
<td>Ontogeny of Placental Lactogen I and Placental Lactogen II - Expression in the Developing Rat Placenta</td>
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<td>Galanin: An Estrogen Regulated Gene and Hormone of the Anterior Pituitary Gland</td>
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<tr>
<td>3/5/89</td>
<td>Teresa Faria</td>
<td>Department of Physiology, KUMC</td>
<td>Can Serotonin Agonists Act Peripherally to Increase Glucocorticoid Secretion?</td>
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<td>Ca²⁺ Regulating Proteins in Brain Neurons: New Insights into Old Problems</td>
</tr>
<tr>
<td>3/13/89</td>
<td>Dr. Henry G. Friesen</td>
<td>Department of Physiology</td>
<td>Studies on Acetylcholinesterase and Its Neural Regulation, with Quantitative Monte Carlo Computer Simulations of Miniature Endplate Currents</td>
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<tr>
<td></td>
<td>University of Manitoba</td>
<td></td>
<td>Does the Development of the Pre-implantation Embryo Depend on a Unique Environment?</td>
</tr>
<tr>
<td>3/26/89</td>
<td>Dr. Mary L. Michaelis</td>
<td>Dept. of Pharmacology</td>
<td>Characterization and Regulation of the GABA System in the Central Nervous System</td>
</tr>
<tr>
<td></td>
<td>University of Kansas</td>
<td></td>
<td>Trophoblast Cell Differentiation: Expression of Placental Prolactins, P450scc and Alkaline Phosphatase</td>
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<tr>
<td>Date</td>
<td>Name</td>
<td>Title</td>
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<tr>
<td>5/2/89</td>
<td>Dr. John C. Porter</td>
<td>Tyrosine Hydroxylase in Dopaminergic Neurons: A Study of the mRNA, Mass and In Situ Activity of the Enzyme Under In Vivo and In Vitro Conditions</td>
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<tr>
<td></td>
<td>Dr. Donald C. Johnson</td>
<td>Placental Steroidogenesis</td>
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<tr>
<td>5/23/89</td>
<td>Frank Samson</td>
<td>Physiological Mechanisms of Single Unit Directional Selectivity in the Cat's Primary Auditory Cortex (AI), Revealed by Ear Occlusion</td>
<td></td>
</tr>
<tr>
<td>5/30/89</td>
<td>Dr. Lloyd L. Anderson</td>
<td>Relaxin in Pigs and Cattle: Its Endogenous Secretion and Biological Actions</td>
<td></td>
</tr>
</tbody>
</table>
PUBLICATIONS

a. Published during year - July 1, 1989 - June 30, 1990


Fetz, E.E., Cheney, P.D., Mewes, K. and Palmer, S. Control of forelimb muscle activity by populations of corticomotoneuronal and rubromotoneuronal cells. Prog. in Brain Res. 80:437-449, 1990.


Johnson, D.C and Sen, M. Increased activity of ovarian thecal cytochrome P450_17α in the hamster induced by endogenous LH. Acta Endocrinologica 121:374-382.


Kim, I. and Greenwald, G.S. Effects of progesterone or luteinizing hormone on folliculogenesis in the immature intact or hypophysectomized hamster. Biol. Reprod. 41:74-78, 1989.


b. In press


Cheney, P.D., Fetz, E.E. and Mewes, K. Neural mechanisms underlying corticospinal and rubrospinal control of limb movements. Prog. in Brain Res.


Smith, P.G. and Reddy, H. Reorganization of cranial sympathetic pathways following neonatal ganglionectomy in the rat. *Journal of Comparative Neurology.*


Valenzeno, D.P. and Tarr, M. Membrane photomodification and its use to study reactive oxygen effects. *CRC Handbook.*


c. Abstracts


Sagrillo, C.A and J.L. Voogt. Endogenous opioids are necessary for the occurrence of the nocturnal prolactin surge in the pregnant rat. Endocrine Society 72nd Annual Meeting. Abst. 1184.


Valzeneno, D.P. and Tarr, M. Photomodification of cell membranes: voltage dependency and persistence of K+ channel block. Photochem Photobiol (in press)


RESEARCH SUPPORT


NIH - Acid-Base Effects of Exercise in Prolonged Hypoxia. April 1, 1988 - March 31, 1991. (Co-Investigator; N. C. Gonzalez Principal Investigator) Direct and indirect costs $81,619/yr.


NIH - Aspects of Blastocyst Implantation. July 1, 1990 - June 30, 1995. $512,616 Direct costs; $240,930 Indirect costs. Renewal of the above grant. 10th year of the grant.


Wesley Foundation, Wichita, KS - Growth Factors in Pregnancy Establishment: May 01, 1990 - April 30, 1992. $61,000 Direct costs; $10,000 Indirect costs.

Lalor Foundation - Role of IGF-I in Implantation. (Postdoctoral Fellowship) September 1, 1990 - August 31, 1991. $20,000 Direct costs.


Endocrine Society - Role of Growth Factors on Preimplantation Embryo Development. Summer Medical Student Fellowship (Archana Gupta). Total award: $1,500.


F. E. Samson: U.S. Army Medical Research and Development Command. "Basic Research on Neurotoxins". Program project October 1986 - September, 1990. Direct and indirect costs $1,000,000. (This program has 12 investigators at KUMC. Dr. Samson is P.I. Coordinator for KUMC site.)


C. M. Tarr: American Heart Association - Reactive Oxygen Species and Single Cardiac Cell Function. Total grant period 7/01/89 thru 6/30/92. Direct cost this year of $28,500; indirect cost of $2850.


Flossie E. West Memorial Trust Fund - Ovarian Tumor Necrosis Factor. June 1, 1990 to May 31, 1991, $14,175.


NICHD - National Research Service Award to Dr. Lydia Arbogast. April 1, 1990 to March 31, 1993. Direct costs first year $21,000.
ACTIVITIES OF STAFF

Paul D. Cheney, Ph.D., Professor

Meetings Attended:
Oct. 30-Nov. 3, 1989 - attended the annual meeting of the Society for Neuroscience in Phoenix, Arizona and was coauthor on two posters.
June 27-29, 1990 - attended Neurology A Study Section, Bethesda, Maryland.

Committees:
Chairman, MRRC Advisory Committee
Chairman, MRRC Search Committee
Chairman, MRRC Space Review Committee
Member, KUMC Research Building Committee
Member, KUMC Curriculum Committee
Member, KUMC Dean's Advisory Committee on Education (DACOE)
Member, KUMC Curriculum Repository Subcommittee of the DACOE
Member, KUMC Outcome measures Subcommittee of the DACOE
Member, KUMC Biological Lecture Series Committee
Member, KUMC Neurology Department Research Committee
Member, KUMC Physiology Department Search Committee
Member, KUMC Physical Therapy Education Department Chair Search Committee
Member, KUMC Pharmacology Department Search Committee
Member, KUMC Dissertation Committee, Gail Widener
Member, KUMC Comprehensive Exam Committee, Rob Leadley
Member, KUMC Dissertation Committee, Joel Stiles
Member, KUMC Dissertation Committee, Andrew Irons
Coordinator, Kansas City Chapter, Society for Neuroscience
Kansas City Science Pioneers Program Consultant, Nov. 18, 1989

Editorial and Grant Reviews:
ad hoc reviewer - Journal of Neurophysiology
ad hoc reviewer for NSF
ad hoc reviewer for NIH Biopsychology Study Section
NIH Neurology A Study Section (Oct. 1988; June 1990)

Seminars Presented:
March 20, 1990 presented a seminar entitled "Contribution of Descending Systems to the Control of Movement" to the Pharmacology Department, KUMC.
April 9, 1990 presented a seminar entitled "Role of Brain Descending Systems in Voluntary Movement" to the Department of Physiology and Cell Biology, KU, Lawrence.
May 3, 1990 presented a seminar entitled "Methods for Analysis of Connections Between Brain Premotor Neurons and Motoneurons in Awake Animals" to the Department of Neurobiology and Anatomy, University of Texas, Houston.
May 4, 1990 presented a seminar entitled "Role of Corticospinal and Rubrospinal Systems in the Control of Movement" to the Department of Restorative Neurology, Baylor College of Medicine, Houston.
Teaching activities:
  Neuroscience
  10 hours lecture
  8 hours lab. - gross brain dissection
  1 demonstration
  Physiology 823 - Brain Control of Movement
  10 three hour lecture/discussion sessions
  1 demonstration
  National Board Reviews for second year Medical Students
  1 hour lecture

Trainees:
  Klaus Mewes - Postdoctoral Fellow
  Gail Widener - Graduate Student
  Gregory Botteron - Medical Student/Academic Track Program
  Brian McKiernan - Graduate Student/PT faculty

Richard L. Clancy, Ph.D., Professor

Meetings attended:
  March 31, 1990 - Attended the Hypoxia and Cell pH Symposium held at the University of Pennsylvania, Philadelphia, PA.
  April 1-5, 1990 - Attended meetings of the Federation of American Societies for Experimental Biology held in Washington, DC

Committees:
  Departmental:
  Chairman, Physiology Department Graduate Student Affairs Committee
  Co-ordinator of seminar program
  Local:
  Member, KUMC Graduate Student Council
  Member, Student Promotions Committee - School of Medicine
  Member, Faculty Resources & Planning Committee
  American Heart Assoc., Kansas Affiliate - Grant Review Committee

Editorial and Grant Reviews:
  ad hoc reviewer for Circulation Research
  American Heart Assoc., Kansas Affiliate - 8 grants reviewed

Teaching Activities:
  Medical Physiology 770-771
  11 hours lecture - Cardiovascular
  16 hours laboratory
  20 hours conferences
  Physiology 705, Advanced Human Physiology
  8 hours lecture - Cardiovascular
  2 hours conference
Physiology 830 - Cardiovascular Physiology
14 hours lecture
National Board Review
2 hours lecture
Prematriculation Course (Minority Students)
6 hours lecture
4 hours computer laboratory

Trainees:
Robert Whitman - Graduate Student
Mark Milne - Summer medical student

Sudhansu K. Dey, Ph.D., Professor

Meetings attended:

Committees:
Departmental
Member, Faculty Search Committee
KUMC
Member, Advisory Committee for MRRC
National:
Member, Editorial Board, Biology of Reproduction

Editorial and Grant Reviews:
Biology of Reproduction
Journal Reproduction and Fertility
J. Clinical Endocrinology
J. Histochemistry and Cytochemistry
NSF
USDA
Medical Research Council, Canada

Seminars Presented:
July 14, 1989 - Presented a seminar to the Department of Animal Sciences at the University of Missouri, Columbia, Missouri.
February 14, 1990 - Presented a seminar to the Department of Anatomy and Cell Biology at KUMC.
April 13, 1990 - Presented a seminar to the Reproductive Biology Group at KUMC.

Honors:
Invited speaker, Uterine and Embryonic Factors in Early Pregnancy, Rockefeller Foundation's Bellagio Study and Conference Center, Lake Como, Italy, October 8-12, 1990.
Invited speaker, Reproductive Endocrinology Postgraduate Course (Sponsors: American Fertility Society and NICHD), Periconceptional Molecular Biology and Growth Factors, to be held October 13-14, 1990, in Washington, D.C.

Invited to attend the Task-Force Meeting of NICHD to advise on the future direction of research in the preimplantation and implantation physiology to be held in Washington, D.C., October 12, 1990.

Teaching Activities:
Medical Physiology
10 hours laboratory
26 hours conference

Trainees:
B.C. Paria, Ph.D. - Postdoctoral Fellow
Hiromichi Tamada, Ph.D. - Postdoctoral Fellow
Archana Gupta - Medical Student
Susan Strong - Summer Student
Amy Evans - Summer Student
Chris McPherson - Summer Student (Rx Success Summer Fellow)
Maruti Dey - Summer Student
Ansley Spencer - Summer Student
Sharon McRay - Summer Student

Hugo L. Fernandez, Ph.D., Professor

Meetings Attended:
March 4-9, 1990 - Attended the 21st annual meeting of the American Society for Neurochemistry, Phoenix, Arizona.
May 12-16, 1990 - Attended (invited speaker) the 3rd International Meeting on Cholinesterases, La Grande-Motte, France.

Committees:
Local:
Chairman, Animal Studies Committee, VA Medical Center
Member, Space Committee, VA Medical Center
Member, Research & Development Committee, VA Medical Center
Member, Sarah Morrison Bequest Review Committee, Univ. of Missouri-K.C.
Member, Advisory Committee, Center on Aging, KUMC

National:
Chairman, NIH Behavioral and Neurosciences Study Section I

Editorial and Grant Reviews:
reviewer - NIH, Behavioral and Neurosciences Study Section
UMKC, Sarah Morrison Bequest Committee
KUMC, Center on Aging
Seminars Presented:

- December 14, 1989 - Presented a seminar entitled "Mammalian Skeletal Muscle Acetylcholinesterase Isoenzymes" to the Department of Physiology, K State School of Veterinary Medicine, Manhattan, KS.
- February 26, 1990 - Presented a departmental seminar entitled "Role of Motor Activity in the Regulation of Skeletal Muscle AChE".
- March 6, 1990 - Presented a seminar entitled "Neuromuscular Aging and Exercise", KUMC Center on Aging monthly research seminar series.
- May 13, 1990 - Presented a seminar entitled "Physiological Regulation of AChE in Adult Mammalian Skeletal Muscle" as invited speaker at the Third International Congress on Cholinesterases, La Grande Motte, France.
- May 25, 1990 - Presented seminar entitled "Nerve-Muscle Cell Trophic Interactions" to the Department of Neurobiology, Molecular Biology Institute, Autonoma University of Madrid, Madrid, Spain.

Academic Honors:

- Chairman, NIH Behavioral & Neurosciences Study Section
- Invited speaker, 3rd International Congress on Cholinesterases, La Grande-Motte, France.
- Visiting Professor, Molecular Biology Institute, Autonoma University of Madrid, Madrid, Spain.

Teaching Activities:

- Medical Neuroscience
  - 6 hours lecture

Trainees:

- Joel R. Stiles, M.D./Ph.D. Student, Physiology
- Therone Coleman, Summer Student

Norberto C. Gonzalez, M.D., Professor

Meetings Attended:

- July 9-14, 1989 - Attended the 31st International Congress of Physiological Sciences held in Helsinki, Finland.
- July 21-24, 1989 - Attended the 12th meeting of the International Society of Oxygen Transport to Tissues held in Gottingen, West German.
- April 1-5, 1990 - Attended the meeting of the Federation of American Societies for Experimental Biology held in Washington, D.C.
Committees:
KUMC
- Member, Curriculum Development Committee
- Member, Dean's Advisory Committee on Education

Extramural
- Chairman, Peer Review Research Committee, AHA-Kansas Affiliate

Seminars presented:
- February 5, 1990 - Presented a departmental seminar entitled "Characteristics of Exercise in Rats Acclimated to Simulated Altitude".

Honors:
- Visiting Scientist, Max Planck Institute for Experimental Medicine, Gottingen, West Germany, June 1-July 31, 1989.

Teaching activities:
- Medical Physiology
  - 12 hours lecture - Respiratory Physiology
  - 2 two-hour review sessions
  - 2 two-hour respiratory physiology demonstration
  - 12 conferences
  - 4 laboratory sessions

- Physiology 705
  - 8 hours lecture - Physiology of Respiration

Trainees:
- A. Sokari, M.D., Ph.D. - Post-doctoral fellow
- Kris Williams, M.S. - Graduate student (7/89-12/89)
- Marcelo Zamagni, Summer Student, 1990
- Kent Perry, Summer Student, 1990

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

Meetings Attended:
- July 9-14, 1989 - Attended the 31st International Congress of Physiological Sciences held in Helsinki, Finland.
- September 21-22, 1989 - Attended meeting for Cellular Signals Controlling Uterine Function held in Wichita, Kansas.

Committees:
- Departmental:
  - Chairman, Search Committee for Cell Biologist

- Local:
  - Member, LCME Steering Committee
  - Member, Advisory Board, Explore Magazine
  - Chairman of the Board, Midwest Biomedical Research Foundation, V.A. Hospital, Kansas City.
Editorial and Grant Reviews:

- ad hoc reviewer - American J. Anatomy
- Biology of Reproduction
- Canadian J. Zoology
- Endocrinology
- J. Experimental Zoology
- J. Reproduction and Fertility
- Molecular Reproduction and Development
- Peptides
- Reproduction, Fertility and Development
- Therengiology
- Medical Research Council of Canada
- U.S. Israel Binational Science Foundation
- Wellcome Trust, United Kingdom
- Consultant, Texas Higher Education Coordinating Board

Seminars presented:

- January 31, 1990 - Presented a seminar to the Department of Anatomy and Cell Biology, KUMC.
- March 7, 1990 - Presented a seminar to the Department of Biological Sciences, University of Wisconsin, Milwaukee, Wisconsin.

Teaching activities:

- Medical Physiology (Co-coordinator)
  - 10 hours lecture - G.I. Physiology
  - 20 hours conference
- Physiology 705
  - 8 hours lecture

Trainees:

- Xiao-ning Wang, M.D. - Graduate Student
- Shyamal K. Roy, Ph.D. - Postdoctoral Fellow
- Alok Ranjan Kole, Ph.D. - Postdoctoral Fellow
- Mitsuo Kawashima, Ph.D. - Postdoctoral Fellow

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

Meetings Attended:

- October 29-November 3, 1990 - Attended the Society for Neuroscience meeting held in Phoenix, Arizona.

Committees:

- Departmental Librarian
- Member, Graduate Affairs Committee
KUMC
Chairman, Graduate Travel Committee
Member, Academic Committee, School of Medicine
Member, Election Committee, School of Medicine
Member, MRRC Advisory Committee
Member, MRRC Space Committee
Member, MRRC Search Committee

Editorial and Grant Reviews:
Journal of Neurophysiology
Journal of Neuroscience
Journal of Comparative Neurology
Hearing Research
National Science Foundation
National Research Council Canada
National Research Council Australia

Seminars presented:
January 29, 1990 - Presented a seminar entitled "Representation of Sound Direction in the Cat's Auditory Forebrain" to the Department of Cell Physiology, University of Kansas, Lawrence, Kansas.

Academic Honors:
Invitation to Symposium: "Binaural Processing in Auditory Function", to be held at the National Institute for Medical Research, Mill Hill, London on November 8, 1990.

Teaching Activities:
PHYS/ANAT 840 - Medical Neuroscience
6 hours lecture
4 laboratory sessions of 3 hour duration
Physiology 398 - Neurophysiology for O.T. Students
Course Director (taught by Graduate Students)
1 lecture
Physiology 822 - Neurophysiology
Graduate Seminar in Auditory Function
Physiology 800 - Medical Physiology
12 Conference sessions
4 labs
National Board Review
One 45 minute lecture

Trainees:
W. Andrew Irons - Graduate Student (Received degree Oct. 1989)
Frank Samson - Graduate Student
Janine Clarey, Ph.D. - Postdoctoral Fellow
Pascal Barone, Ph.D. - Postdoctoral Fellow
Donald C. Johnson, Ph.D., Professor

Meetings Attended:
August 6-9, 1989 - Attended the Society for the Study of Reproduction meeting held in Columbia, Missouri.

Committees:
Member, Radiation Safety Committee, KUMC
Member, Animal Use and Care Committee, KUMC
Member, Faculty Research Awards Committee, KUMC
Graduate College Travel Committee, KUMC
Member, Graduate School Committee for Brian Gemzik, Pharmacology graduate student
Member, Graduate School Committee for Monica M. Montano, graduate student in Department of Biological Sciences at the University of Missouri, Columbia.

Editorial and Grant Reviews:
Biology of Reproduction
Journal of Reproduction and Fertility
Proceedings Society for Experimental Biology & Medicine

Seminars presented:
January 23, 1990 - Presented a seminar entitled "Xenobiotic Estrogens" to the Department of Pharmacology, Toxicology and Therapeutics, KUMC.
April 27, 1990 - Presented a seminar entitled "Androgenization of the Central Nervous System" to the Department of Anatomy and Physiology at Kansas State University, Manhattan, Kansas.
April 9, 1990 - Presented a departmental seminar entitled "Placental Steroidogenesis".

Teaching Activities:
Medical Physiology
10 conferences
4 laboratory sessions

Trainees:
Mitra Sen, Ph.D. - Postdoctoral Fellow
H.L. Chen - Postdoctoral Fellow

Fred E. Samson, Ph.D., Professor Emeritus

Meetings Attended:
August 14-17, 1989 - Attended the Bioscience Review, Dept. of Defense Medical Research and Development Command, at Johns Hopkins University, Columbia, Maryland.
October 31-November 2, 1989 - Attended the annual meeting of the Society for Neuroscience held in Phoenix, Arizona.
March 5-8, 1990 - Attended the annual meeting of the American Society for Neurochemistry held in Phoenix, Arizona.

Committees:
KUMC:
Organizer of work session, "Free Radicals in Tissue Damage" to be held at KUMC December 3-4, 1990.
Coordinator, Neurotoxin Research Group
Scrivener-Scribe, Department of Physiology
Coordinator, Free Radical Research Group (KUMC-KU intercampus)

National:
Reviewer, Research Application for V.A. Medical Center, Hines, Illinois.
Scientists’ Institute for Public Information (Media Resource Service, New York, NY)
Member, Advisory Committee for Professor F.O. Schmitt autobiography (M.I.T.)

Editorial and Grant Reviews:
Member, Scientific Advisory Boards of the Encyclopedia of Neuroscience and the Encyclopedia of Neuroscience Year Book, published by Birkhauser Verlag.
ad hoc referee for Life Sciences

Seminars Presented:
March 27, 1990 - Presented a seminar entitled "Brain Regional Activity Associated with the Seizure State" to the Department of Pharmacology, KUMC.

Academic Honors:
Invitation to be consultant on neuroscience, M.I.T., July 1989

Teaching activities:
Medical Physiology - Physiology 800
12 Conference sessions
Ph.D. Thesis Committees
Joel Stiles, Department of Physiology

Trainees:
Matt Layton - Medical Student (Dr. Pazdernik supervisor)
Elizabeth Simmons - Summer Research Student (Drury College)
Nickolaus McFarland - Summer Research Student (University of Chicago)
Katherine Claflin, M.D. (Pediatrics) - Part-time postdoctoral
Hong Zuo, M.D. (Beijing, China) - Part-time postdoctoral
Peggy Beatty, D.V.M., (Marion Merrill-Dow Laboratories) - Part-time postdoctoral
Peter G. Smith, Ph.D., Associate Professor

Meetings Attended:
March 19-20, 1990 - Attended the annual meeting for Public Responsibility in Medicine and Research held in Boston, Massachusetts.

Committees:
Departmental:
Member, Dissertation Committee, Robert Leadley
Member, Dissertation Committee, Cathy Sagrillo
Member, Dissertation Committee, Gail Widener
Member, Dissertation Committee, Andrew Irons

Local:
Member, Institutional Animal Care and Use Committee
Member, MRRC Neurobiology Search Committee
Member, Wahl Hall West Auditorium renovations committee
Member, Dissertation Committee for Pablo Pergola, Pharmacology Graduate Student
Member, Dissertation Committee for Dale Hogan, Anatomy Department
Member, Dissertation Committee for Edwin Purcell, Anatomy Department
Member, Dissertation Committee for Jane Johnston, Department of Physical Therapy

Editorial and Grant Reviews:
Ad hoc member, NIH Neurology BII study section, October 16-18, 1989
Member, NIH site visit team to University of Southern Florida, Tampa, Florida, December 14-15, 1989.
Ad hoc member, NIH Neurology BII study section, June 26-29, 1990.

Seminars presented:
November 21, 1989 - Presented a seminar entitled "Plasticity of the Developing Sympathetic Nervous System" to the Department of Pharmacology, KUMC.
March 23, 1990 - Presented a seminar entitled "Plasticity of the Sympathetic Nervous System" to the Department of Psychology, University of Oklahoma, Norman, Oklahoma.
April 12, 1990 - Presented a seminar entitled "Developmental Autonomic Neuroplasticity" to the School of Basic Life Sciences, University of Missouri - Kansas City.

Teaching activities:
Medical Physiology
2 hours lecture
5 conference sessions
5 laboratory sessions
1 review session

Medical Neuroscience
2 hours lecture
1 laboratory session
Cardiovascular Physiology 830
6 hours lecture
National Board Review
30 minute lecture

Trainees:
Hemalatha Reddy, M.D., Postdoctoral Fellow
Preeti Venkataraman, M.D., Postdoctoral Fellow
Chad Sharp, Medical student, Summer research training
Edgar A. Fike IV, Medical Student, Summer research training
Terri L. Hoffman, Summer research student, Drury College
Craig Boswell, Summer research student, Drury College

Michael J. Soares, Ph.D., Associate Professor

Meetings Attended:
August, 1989 - Attended the 22nd Annual Meeting of the Society for the Study of Reproduction held in Columbia, Missouri.
June, 1990 - Attended the 72nd Annual Meeting of the Endocrine Society held in Atlanta, Georgia.

Committees:
Departmental:
Member, Graduate Student Advisory Committee
Member, Molecular Biologist Search Committee

Local:
Member, KUMC Medical School Research Committee
Member, Dissertation Committee for Carla Green (Biochemistry)
Member, Dissertation Committee for Sandy Elliott (Physiology)
Member, Dissertation Committee for Cathy Sagrillo (Physiology)

Editorial and Grant Reviews:
ad hoc reviewer for - Endocrinology
- Biology of Reproduction
- Journal of Reproduction and Fertility
- Molecular Endocrinology
Editorial board membership - Biology of Reproduction
USDA Competitive Grants Program

Seminars presented:
November, 1989 - Presented a seminar entitled "Placental prolactins and trophoblast cell differentiation", Faculty Research Day, KUMC.
April, 1990 - Presented a seminar entitled "Trophoblast Cell Differentiation in Normal and Neoplastic Tissue: Expression of the Prolactin Gene Family" at the Annual Wesley Scholar Cancer Symposium, Kansas City, Missouri.
May 21, 1990 - Presented a departmental seminar entitled "Trophoblast Differentiation: Expression of Placental Prolactins, P450cc and Alkaline Phosphatase".

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Honors and Awards:
Recipient of the KUMC Faculty Research Award, November 1989.

Teaching activities:
Medical Physiology
  13 conferences
  4 laboratory sessions
Physiology 705 - Course Coordinator
  10 hours lecture - Endocrinology

Trainees:
Dr. Santanu Deb - Postdoctoral Fellow
Dr. Katherine F. Roby - Postdoctoral Fellow
Teresa Faria - Graduate Student (Special Studies)

Lawrence P. Sullivan, Ph.D., Professor

Meetings Attended:
July, 1989 - Attended the XXXI International Congress of Physiological Sciences in Helsinki, Finland and presented a paper.
December, 1989 - Attended American Society of Nephrology meeting held in Washington, D.C. and presented a paper.

Committees:
Departmental:
  Member, Graduate Committee
  Member, Dissertation Committee, Robert Leadley
Local:
  Vice-President, Kidney and Urology Research Center
  Member, Faculty Assembly Steering Committee
  Member, Smoke-Free Task Force
  Chairman, Renal Journal Club
National:
  Member, Nominating Committee, Renal Section, American Physiological Society.

Editorial and Grant Reviews:
  Deputy Editor and Associate Editor for Journal American Society of Nephrology.

Seminars Presented:
January 29, 1990 - Presented departmental seminar entitled "Factors Involved in Acidosis Induced Swelling in Renal Proximal Tubule".

Teaching Activities:
Medical Physiology
  10 hours lecture - Renal Physiology
  9 hours problem sessions
  12 conferences
  5 laboratory sessions
Physiology 705
  8 hours lecture
  1 hour problem session
National Board Review
  1.5 hour lecture

Trainees:
  Michael Feldt, Summer Student, Drury College

Merrill Tarr, Ph.D., Professor

Committees:
  Peer Research Review Committee of the American Heart Association, Kansas Affiliate

Editorial and Grant Reviews:
  Reviewed grants for American Heart Association, Kansas Affiliate

Honors and Awards:
  Student Voice Award - Honors in Education, School of Medicine, 1989-90.

Teaching Activities:
  Medical Physiology
    10 hours lecture
    2 review sessions
    12 conference sessions
    5 laboratories
  Physiology 705
    8 hours lecture
    1 hour review session
  Physiology 830 (Cardiovascular Physiology)
    9 hours lecture
    3 hours student presentations of term papers
    3 hours student oral exams
National Board Review
  1 hour lecture

Trainees:
  Kurt Kauffman, 2nd year medical student, summer, 1990

Paul F. Terranova, Ph.D., Professor

Meetings Attended:
  August 6-9, 1989 - Attended the 22nd annual meeting of the Society for the Study of Reproduction held in Columbia, Missouri.
  April 1-4, 1990 - Attended the Serono Symposium on Growth Factors in Reproduction held in Savannah, Georgia.
June 20-23, 1990 - Attended the 72nd annual meeting of the Endocrine Society, Atlanta, Georgia.
June 23-25, 1990 - Attended the 10th annual meeting of the American Society for Immunology, Chicago, Illinois.

Committees:
Departmental:
- Member, Block Exam coordinating committee for medical physiology
- Chairman, R & D Committee, V.A. Medical Center, KCMO
- Member, Search Committee MRRC Neurobiology Faculty Position
- Member, MRRC Advisory Committee
- Director, Histology Core, MRRC

National:
- Member, Reproductive Biology Study Section NICHD, 1989-93
- Member, Physiological Processes Panel of NSF, 1987-1990
- Member, Board of Directors (1987-90), Society for the Study of Reproduction
- Member, Editorial Board, Endocrinology

Editorial and Grant Reviews:
- Journal of Reproduction and Fertility
- Endocrinology
- Biology of Reproduction
- Life Sciences

Honors:

Teaching Activities:
- Medical Physiology - Course Coordinator
  - 12 conferences approx. 2 hours each
  - 4 laboratories, 2-4 hours each
  - 8 lectures, 1 hour each
Trainees:

Postdoctoral:
Maria Sancho-Tello, M.D., Ph.D.
Katherine Roby, Ph.D.

Graduate Students:
Toni Clinton

John W. Trank, Ph.D., Professor

Committees:

Departmental:
Electronic shop supervisory committee

KUMC:
Acting Chairman, Faculty Assembly Intercampus Liaison Committee
Member, Faculty Assembly Steering Committee Council
Member, Information Resources Committee

Local:
Member, Biomedical Engineering Technician Advisory Committee, Johnson
County Community College
Member, Board of Directors Greater Kansas City Div., American Heart
Association
Member, Board of Directors, American Heart Association, Kansas Affiliate
Chairman, AHA Kansas Affiliate Land Selling Committee

National:
Representative to Great Plains Regional Heart Committee, American Heart
Association

Honors:
Consultant to Interex Div. of Merck Industries, Lawrence, Kansas

Teaching Activities:

Medical Physiology
8 hours lecture - Electrocardiography, Hemodynamics, Blood Pressure
Regulation, Venous Circulation, System Dynamics
12 conferences (24 hours)
4 lab sessions (24 hours)
Laboratory management for all Medical Physiology Laboratories

Medical Neuroscience
1 hour lecture - Optics
6 hours lab session

Physiology 830 - Cardiovascular Physiology
20 hours lecture/discussion

Trainees:
Kurt Kauffman, Medical student, summer 1990

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Dennis P. Valenzeno, Ph.D., Associate Professor

Meetings Attended:
February 2-4, 1990 - Attended the Organizational Meeting, NATO Advanced Study Institute, "Photobiological Techniques" held in London, England.
June 16-20, 1990 - Attended the XVIIIth Annual Meeting of the American Society for Photobiology, Vancouver, British Columbia, Canada.

Committees:
Departmental:
Member, Graduate Committee

Local:
Member, Medical Faculty Steering Committee
Member, Health Careers Pathways Program Advisory Committee

National:
Member, Education Committee American Society for Photobiology
Member, Governing Council, American Society for Photobiology
Member, Publications Committee, American Society for Photobiology
Member, Public Affairs Committee, American Society for Photobiology

Editorial Reviews:
ad hoc reviewer - Photochemistry and Photobiology
ad hoc reviewer - Journal of Photochemistry and Photobiology

Seminars Presented:
February 6, 1990 - Presented a seminar entitled "The Use of Photosensitizers in Cardiovascular Research" to the Cardiovascular Research Institute, The Rayne Institute, St. Thomas' Hospital, London, England
February 7, 1990 - Presented a seminar entitled "The Use of Photosensitizers in Cardiovascular Research" to the Department of Physiology, Janssen Pharmaceutical Company, Beerse, Belgium

Honors:
Editor of the American Society for Photobiology Newsletter.
Director, NATO Advanced Study Institute, "Photobiological Techniques", Kingston, Ontario, Canada

Teaching Activities:
Medical Physiology
6 hours lecture
7 conferences
5 laboratories and lab review sessions

Health Careers Pathways Program
6 hours lecture
4 hours other class time

Meet the Mentor Day - Johnson County Community College
3 hours advising, Grades 4-12
James L. Voogt, Ph.D., Professor

Meetings Attended:
October 29 to November 3, 1989 - Attended Meeting of the Society for Neuroscience held in Phoenix, Arizona
June 24-29, 1990 - Attended the International Neuroendocrinology Meeting held in Bordeaux, France.

Committees:
Departmental:
Member, Graduate Affairs Committee

Local:
Chairman, Steering Committee, School of Medicine, KUMC
Member, Assembly Steering Committee, Institutional
Member, IACUC, Institutional
Member, Health Career Pathways Program Advisory Committee
Member, Dean's Advisory Committee
Member, M.D./Ph.D. Advisory Committee and Curriculum Subcommittee
Member, MRRC Advisory Committee and Space Subcommittee
President, KUMC Sigma Xi Chapter
LCME Institutional Self Study, Steering Committee

Editorial and Grant Reviews:
Editorial Board - Endocrinology
Ad hoc reviewer - PSEBM
- Neuroendocrinology
- Journal of Neuroendocrinology
- Life Sciences

Seminars Presented:
November 10, 1989 - Presented a seminar entitled "Prolactin Control: From Pregnancy to Old Age" to the Department of Anatomy and Cell Biology, KUMC.
December 13, 1989 - Presented a seminar entitled "Initial Results Looking at Tyrosine Hydroxylase Gene Expression in Aging Female Rats" to the Reproductive Biology Group, KUMC.
February 6, 1990 - Presented a seminar entitled "Neuroendocrinology of Aging in the Rodent" for the Center on Aging, KUMC.
March 13, 1990 - Presented a seminar entitled "Dopamine Receptors" to the Department of Psychiatry, KUMC.
April 6, 1990 - Presented two seminars entitled "Prolactin Autoregulation" and "Dopamine Receptors" to the Department of Anatomy and Physiology at Kansas State University, Manhattan, Kansas.

Teaching Activities:
Medical Physiology
8 hours lecture
12 conferences
4 laboratories

Prematriculation Course - Minority Students
6 hours lecture
Trainees:
- Sandy Elliott - graduate student
- Cathy Sagrillo - graduate student
- Joanne Mathiasen - graduate student
- Lydia Arborgast, Ph.D. - Postdoctoral Fellow
- Anahita Mistry, Ph.D. - Postdoctoral Fellow
- Gabriela Vidal, M.D. - Postdoctoral Fellow
- Rebecca Fliestra, B.S. - Summer intern
Things continue to go well for the Department of Physiology. In fact the department is probably stronger now than at any time in its history. Despite the exigencies of the NIH grant situation, the faculty continues to obtain support, albeit on the second or third try. These are tough times and the administration should devote considerably more attention to tide senior investigators during this crisis. It is gratifying that the number of publications continues to increase and that this past year all faculty are P.I.s or coinvestigators on research grants. Increasing number of the faculty are serving on study sections and being invited speakers at major national and international meetings. On the local level, I am especially proud of the level of participation of Physiology faculty in governance of KUMC. Two new faculty joined the Department in June 1990: Dr. Joseph Tash, Associate Professor of Physiology and Dr. Steven LeVine, Assistant Professor of Physiology. I’m sure that in the next few years their names will be more and more prominent in the annual report.

Graduate education continues to flourish with three students completing their Ph.D. degrees in the past year for a total of 8 degrees granted in the last two years. The shortage of academic job opportunities in the life sciences will break in the next five years as post war faculty begin to retire. It is therefore imperative that we continue to recruit 4 or 5 new students per year.

For the first time evaluation of the medical physiology course was strictly in the hands of the students and the course fared very well: The first five instructors were all cited for superior teaching. Since then, the review of the entire course was completed and assigned an overall score of 3.5 (4.0 possible). Despite this glowing review I have the uneasy feeling that we have become too smug and set in our style of teaching and a good shake up of every aspect of the course is called for. This should be a major goal over the next two years.

In summary, this has been a good year for the Department but I anticipate that next year will be even better.