

## CURRICULUM VITAE

CLARK M. BLATTEIS

- NAME:** CLARK M. BLATTEIS
- DATE AND PLACE OF BIRTH:** 25 June, 1932, in Berlin, Germany
- NATIONALITY:** U. S. citizen
- MARITAL STATUS:** Married (Yolanda; 1958); 3 children
- MAILING ADDRESS:** Department of Physiology  
University of Tennessee Health Science Center  
College of Medicine  
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- TITLE AND AFFILIATION:** Professor, Department of Physiology, and Professor,  
Neuroscience Center of Excellence, College of Medicine,  
University of Tennessee Health Science Center, Memphis,  
Tennessee
- EDUCATION:**
- A. **UNDERGRADUATE:**  
Rutgers University , NCAS, Newark, New Jersey (Sept. 1949 - Dec. 1953), B.A. 1954
- B. **GRADUATE:**  
University of Iowa, Iowa City, Iowa (Jan. 1954 - June 1955), M.Sc., 1955  
(Dr. S. M. Horvath)
- University of Iowa, Iowa City, Iowa (July 1955 - Aug. 1957), Ph.D., 1957  
(Dr. S. M. Horvath)
- C. **POSTDOCTORAL TRAINING:**
- Institute of Andean Biology, University of San Marcos, Lima, Peru (March 1961 - March 1962)  
(Dr. A. Hurtado)
- Nuffield Institute for Medical Research, University of Oxford, Oxford, England (April 1962 - April 1963)  
(Dr. G. S. Dawes)

### **HONORS AND AWARDS:**

1954-55 University of Iowa Predoctoral Teaching Assistant

- 1955-57            USPHS/NIH Predoctoral Research Fellow
- 1961-63            USPHS/NIH Postdoctoral Research Fellow
- 1968, Summer     Organization of American States (OAS) Fellow, Visiting Professor of Physiology, University of San Agustin, Faculty of Medicine, Arequipa, Peru
- 1968-78            Visiting Professor of Physiology, Department of Physiology, University of Guanajuato, School of Medicine, Leon, Gto., Mexico (2 weeks annually)
- 1975, Summer     Senior Fulbright-Hays Fellow, Visiting Professor of Physiology, Universidad Peruana Cayetano Heredia, Faculty of Medicine, Lima, Peru
- 1975-present      Corresponding Member, Peruvian Society of Physiological Sciences
- 1977, May          Deutsche Sonderforschungsbereich Fellow, Lecturer in Thermal Physiology (Max-Planck-Institut, Bad-Nauheim; Justus-Liebig-Universität, Giessen; Phillips-Universität, Marburg, FRG)
- 1979, Summer;  
1981, Fall         Deutsche Forschungsgemeinschaft Fellow, Visiting Research Professor, Physiologisches Institut, Phillips-Universität, Marburg, FRG (Prof. Dr. H. Hensel)
- 1983, Fall         Commonwealth Science and Industry Research Organization Fellow, Visiting Research Professor, Ian Clunies Ross Laboratory, Prospect (Sydney), NSW, Australia (Dr. J. R. S. Hales)
- 1992, Sept         National Science Foundation Award INT9214231, to support a Workshop on Thermal Physiology, held in conjunction with the 1st International Congress of the African Association of Physiological Sciences, Nairobi, Kenya.
- 1994, Jun-Jul      Senior Fulbright-Hays Fellow, Visiting Professor of Physiology, National University of Trujillo, Faculty of Medicine, Trujillo, Peru.
- 1994, July         "Profesor *Honoris Causa*", Faculty of Medicine, National University of Trujillo, Trujillo, Peru; "Profesor *Honoris Causa*", Universidad Peruana Cayetano Heredia, Lima, Peru.
- 1998, April        "Actor," APS Commemoration of a Century of AJP Publication, Experimental Biology '98, San Francisco, CA.
- 1998, June         "Professor *Honoris Causa*", Faculty of Sciences and Philosophy, National University of Trujillo, Trujillo, Peru; Honorary President, Peruvian Society of Physiology and Pathophysiology.
- 1998, August      Visiting Professor of Physiology, Kyushu University Faculty of Medicine, Fukuoka, Japan.

- 2003, April Honor Award, American Physiological Society Environmental and Exercise Physiology Section.
- 2006, Mar-Apr Visiting Professor of Physiology, Justus-Liebig University Faculty of Veterinary Physiology, Giessen, Germany.
- 2007, March Honorary Diploma, University of Guanajuato, Faculty of Medicine, Leon, Gto., Mexico.
- 2007, April Honorary Diploma, National University of Trujillo, Faculty of Medicine, Trujillo, Peru.
- 2007, August Inducted into the American Physiological Society's *Living History in Physiology* project.

### **MILITARY SERVICE:**

- 1957-61 1<sup>st</sup> Lt., USA-MS (duty station: U. S. Army Medical Research Laboratory, Division of Environmental Medicine, Ft. Knox, KY)

### **SOCIETY MEMBERSHIPS:**

- American Physiological Society (1962-present)  
 Member, Environmental and Exercise Physiology, Neural Control and Autonomic Regulation, and Central Nervous System Sections  
 Chairman, Perinatal Physiology Group, 1971-72  
 Member, Environmental Physiology and Temperature Regulation Audio-Visual Material Review Panel, Education Committee, 1973-75  
 Member, International Physiology Committee, 1988-92; *ex officio*, 1992-95; Secretary, 1990-92; Chairman, Subcommittee to Foster Physiology in Latin America, 1992-95  
 Member, Long-Range Planning Committee, 1992-94  
 Member, Handbook Committee, 1992-97  
 Member, Environmental and Exercise Physiology Section Steering Committee, 1998-2002; Chairman, Program Committee, 2000-2003  
 Member, APS Joint Program Committee, 1999-2003  
 Member, APS History Publications Advisory Committee, 2000-present  
 Member, APS Public Affairs Committee, 2003-2006
- International Union of Physiological Sciences  
 Member, Thermal Physiology Commission, 1983-91  
 Chairman, Thermal Physiology Commission, 1991-96
- Society for Neuroscience (Member)  
 Council Member, UT-Memphis Chapter, 1981-present (Treasurer, 1988-present)
- International Brain Research Organization  
 Society for Leukocyte Biology  
 Peruvian Society for Physiological Sciences (Corresponding Member)  
 Society for Experimental Biology and Medicine  
 American Association for the Advancement of Science  
 Sigma Xi  
 President, University of Tennessee Medical Units Chapter, 1970-71  
 Chairman, Chapter Projects Committee, 1976-79

Chairman, Membership Committee, 1989-92  
 Memphis Neuroscience Society  
 American Heart Association  
 Member, Cardiopulmonary Council, 1972-82  
 International Society for Neuroimmunomodulation  
 Fulbright Association  
 International Endotoxin Society  
 The New York Academy of Science  
 International Society for Pathophysiology  
 North-American Society for Neuroimmunomodulation  
 International Cytokine Society  
 American Society for Microbiology

### **UNIVERSITY APPOINTMENTS:**

|              |  |
|--------------|--|
| 1974-present | Professor, Department of Physiology†, University of Tennessee Health Science Center†, College of Medicine, Memphis, TN<br>(Acting Chairman [during sabbatical leave of chairman], January-June, 1977)<br>[†Name changes, effective 7/1/00] |
| 1986-present | Professor, Neuroscience Center of Excellence, University of Tennessee Health Science Center, Memphis, Tennessee  |
| 1966-74      | Associate Professor, Department of Physiology and Biophysics, University of Tennessee Medical Units, Memphis, TN (also appointed to Graduate Faculty)  |
| 1963-66      | Research Physiologist and Branch Chief, U. S. Army Research Institute of Environmental Medicine, Natick, MA  |
| 1959-61      | Adjunct Instructor in Physiology, Department of Physiology (Dr. L. Carlson, Head), University of Kentucky, Ft. Knox Extension, Ft. Knox, KY  |
| 1958-61      | Adjunct Instructor in Physiology, Department of Biology, University of Louisville, KY  |
| 1957-61      | Research Physiologist, U. S. Army Medical Research Laboratory, Ft. Knox, KY (on active military duty)  |
| 1955-57      | Graduate Research Fellow (NIH Predoctoral Fellow), Department of Physiology, University of Iowa, Iowa City, IA   |
| 1954-55      | Graduate Teaching Assistant, Department of Physiology, University of Iowa, Iowa City, IA   |

### **TEACHING EXPERIENCE AT UT:**

#### **A. SUBJECTS TAUGHT**

|          |  |
|----------|--|
| Graduate | Energy Metabolism; Temperature Regulation; Exercise Physiology; Respiration; History of Physiology; Hypothalamic |
|----------|--|

|                        |   |
|------------------------|---|
|                        | Physiology; Neuroimmunoendocrinology; Physiological Adjustments to Stress; Cytokine Signaling; The Biology of Fever; The Inflammatory Response; The Neuroimmunobiology of Fever                       |
| Medicine               | Energy Metabolism; Temperature Regulation; Exercise Physiology; Respiration; Grand Rounds: Neurology, Pediatrics, Medicine (Pulmonary), Dermatology; Small Group Conferences, all areas of physiology |
| Dentistry              | Gastrointestinal Physiology; Endocrinology; Respiration; Cardiovascular; Small Group Conferences  |
| Pharmacy               | Respiration; Cardiovascular; Small Group Conferences  |
| Biomedical Engineering | Energetics; Transmembrane Fluxes; Neurophysiology; Sensory Physiology; Host Defense Mechanisms  |

B. COURSES ORGANIZED AND/OR DIRECTED:

|                           |  |
|---------------------------|--|
| 1969, Spring              | Physiology 620G (Graduate), "History of Physiology"                                      |
| 1969, Fall                | Physiology 607G, "Temperature Regulation"  |
| 1974-78,<br>Fall/Spring   | Physiology 612/622G, "Graduate Physiology and Biophysics"                                |
| 1974-78,<br>Fall/Spring   | Physiology 911G, "Recent Advances in Physiology"   |
| 1978-81,<br>Winter/Spring | Physiology 1M (Medical), "Medical Physiology"  |
| 1986, Winter              | Physiology 911G, "Integrative Functions of the Hypothalamus"                             |
| 1987-1989                 | Medical, Dental, and Pharmacy Physiology Courses, Thematic Director - Nerve, Muscle, CNS |
| 1989, Fall                | Physiology 911G, "Neuroimmunoendocrinology"  |
| 1991, Fall                | Physiology 911G, "Physiological Adjustments to Stress"                                   |
| 1995, Winter              | Physiology 911G, "The Biology of Fever"  |
| 1997-present              | Physiology, "Life Sciences for Biomedical Engineering" (Course Director)                 |
| 1998, Summer              | Physiology 911G, "Mechanisms of Host Defense and Inflammation"                           |

2001, Summer Physiology 911G, "The Neuroimmunobiology of Fever"

C. PREDOCTORAL STUDENTS:

1. Major Professor of:

|                        |   |
|------------------------|---|
| Daniel W. Doherty, Jr. | M.Sc., 1969 (went on to medical school)     |
| Thomas M. Gilbert      | Ph.D., 1976                                 |
| Keith A. Smith         | Temporary (1 year; left for medical school) |
| Patrick S. Cox         | Ph.D., 1980                                 |
| Ning Quan              | Ph.D., 1991 (Neuroscience Center Fellow)    |

2. Thesis Committee Member of:

|                          |             |
|--------------------------|-------------|
| Tomas C. Melbourne       | Ph.D., 1967 |
| Billy W. Perry           | Ph.D., 1967 |
| Ronald D. Smith          | Ph.D., 1971 |
| Don W. Korte             | Ph.D., 1974 |
| William T. Mahon, D.D.S. | M.Sc., 1978 |
| Linda Payne              | Ph.D., 1992 |
| Jinxing Wang             | Ph.D., 1995 |
| Michael Hansen           | Ph.D., 1998 |
| Jianyi Zhang             | Ph.D., 1998 |

D. POSTDOCTORAL FELLOWS:

|                                   |  |
|-----------------------------------|--|
| Dr. M. S. Guerrero (Mexico)       | 1969                                   |
| Dr. M. Mohanty (U. S.)            | 1976                                   |
| Dr. T. K. Narayanan (India)       | 1977-78                                |
| Dr. J. Llanos (Peru)              | 1982-84 (Fogarty International Fellow) |
| Dr. Y. Hori (Japan)               | 1985-86                                |
| Dr. M. Shibata (Japan)            | 1987-88 (Neuroscience Center Fellow)   |
| Dr. L. Xin (People's Rep. China)  | 1989-91                                |
| Dr. E. Sehic (Bosnia)             | 1992-98                                |
| Dr. S. Li (People's Rep. China)   | 1997-2005                              |
| Dr. Z. Li (People's Rep. China)   | 2000-04 (Neuroscience Center Fellow)   |
| Dr. C. Feleder (Argentina)        | 2001-05                                |
| Dr. V. Perlik (Czech Rep.)        | 2001-04                                |
| Dr. Y. Tang (People's Rep. China) | 2004-                                  |

E. VISITING SCIENTISTS:

|                              |                                      |
|------------------------------|--------------------------------------|
| Dr. W. S. Hunter (U. S.)     | 1982 (sabbatical)                    |
| Dr. J. Seydoux (Switzerland) | 1984 (sabbatical)                    |
| Dr. R. Necker (West Germany) | 1985 (sabbatical)                    |
| Dr. T. Kiyohara (Japan)      | 1987 (sabbatical)                    |
| Dr. J. Llanos-Quevedo (Peru) | 1987-88 (sabbatical)                 |
| Dr. O. Shido (Japan)         | 1991-92 (sabbatical)                 |
| Dr. A. A. Romanovsky (USSR)  | 1991-94 (Neuroscience Center Fellow) |
| Dr. W. S. Hunter (U.S.)      | 1992-93 (sabbatical)                 |

|                              |                           |
|------------------------------|---------------------------|
| Dr. M. Székely (Hungary)     | 1992 (sabbatical)         |
| Dr. P. Hinckel (Germany)     | 1994 (sabbatical)         |
| Dr. J. Llanos-Quevedo (Peru) | 1999 (sabbatical)         |
| Mr. A. A. Steiner (Brazil)   | 1999 (thesis research)    |
| Dr. M. Székely (Hungary)     | 2002 (sabbatical)         |
| Dr. J. Llanos-Quevedo (Peru) | 2007-present (sabbatical) |

### **ACADEMIC COMMITTEES AND APPOINTMENTS AT UT:**

#### **A. UT-WIDE**

|         |   |
|---------|---|
| 1971-79 | Goodman Professorship Committee                                 |
| 1976-83 | International Programs Advisory Council                         |
| 1977-79 | Higher Education Management Institute (HEMI) Project Task Force |
| 1979-84 | Biomedical Instrumentation Advisory Committee                   |
| 1981-82 | UTCHS Research Day Committee                                    |

#### **B. GRADUATE SCHOOL:**

|           |   |
|-----------|---|
| 1978-80   | Graduate Program Review Committee   |
| 2000-2002 | Neuroscience Coordinating Committee; Section Coordinator for Neuroendocrinology and Neuroimmunology |

#### **C. COLLEGE OF MEDICINE:**

|         |  |
|---------|--|
| 1966-68 | Faculty Representative to Councils   |
| 1968-71 | Promotions Committee   |
| 1971-74 | Committee for Planning and Programming the Facilities for the Basic Medical Science General Education Building |
| 1972-73 | Curriculum Committee (Phase II)  |
| 1973-74 | Chairman, Basic Sciences Term Committee  |
| 1973-74 | Chairman, Permanent Promotions Committee   |
| 1975-80 | Professional Career Guidance and Placement Subcommittee, Committee on Student Affairs                          |
| 1976-78 | Agenda Committee   |
| 1977-81 | International Health Education Subcommittee, Committee on Student Affairs                                      |

|         |  |
|---------|--|
| 1977-83 | Committee on Research  |
| 1977-80 | Independent Study Subcommittee, Committee on Medical Education                     |
| 1978-79 | Pathophysiology Curriculum Committee   |
| 1979-81 | Biomedical Sciences Committee (Chairman: Comprehensive Examination I Subcommittee) |
| 1981-82 | Subcommittee on Career Development and Placement, Committee on Student Affairs     |
| 1985-89 | Committee for Undergraduate Medical Education                                      |
| 1987-88 | Special Advisory Committee for Health Promotion/Disease Prevention                 |

D. DEPARTMENT OF PHYSIOLOGY:

|              |   |
|--------------|---|
| 1966-70      | Teaching and Curriculum Committee   |
| 1968-70      | Graduate Training Committee   |
| 1970-74      | Professor-in-Charge*, Student Laboratories (renovated laboratory space and reorganized program) |
| 1974-78      | Chairman*, Graduate Training Committee  |
| 1974-78      | Professor-in-Charge*, Graduate Curriculum   |
| 1975-present | Committee on Promotions and Tenure (Chairman: 1986-88, 1989-90)                                 |
| 1978-81      | Course Director*, Medical Physiology Curriculum   |
| 1986-88      | Physiology Program Review Committee   |
| 1987-89      | Thematic Director*, Medical, Dental, and Pharmacy, Nerve-Muscle-CNS Physiology                  |
| 1989-90      | Search Committee for Bronstein Professor  |
| 1990-91      | Graduate Training Committee   |
| 1992-93      | Search Committee for New Faculty  |
| 1999-2001    | Course Directors Committee  |

\*denotes administrative responsibility

PROFESSIONAL SERVICES:

A. EDITORSHIPS:

- 1973-present Guest Referee Editor, American Journal of Physiology; Journal of Applied Physiology
- 1977-present Guest Referee Editor: Science; IEEE Transactions on Biomedical Engineering; Journal of Thermal Biology; Canadian Journal of Physiology and Pharmacology
- 1978-1980 Member, Editorial Board, Journal of Applied Physiology: Respiratory, Environmental and Exercise Physiology
- 1983-present Guest Referee Editor, Medicine and Science in Sports and Exercise; Toxicology and Applied Pharmacology; Pflügers Archiv
- 1984-present Guest Referee Editor, Physiology and Behavior
- 1985-present Guest Referee Editor, Journal of Comparative Physiology B; New England Journal of Medicine
- 1987-present Guest Referee Editor, Annals of Biomedical Engineering; American Journal of Nutrition
- 1989-present Guest Referee Editor, Experimental Gerontology
- 1994-1998 Editor, "Physiology and Pathophysiology of Temperature Regulation," The IUPS Commission on Thermal Physiology, World Scientific Publication, Singapore
- 1990-1996 Co-editor, "Handbook of Physiology, Section 4: Environmental Physiology", American Physiological Society, Oxford University Press, New York
- 1997 Editor, "Thermoregulation: Recent Progress and New Frontiers", New York Academy of Sciences
- 1990-present Guest Referee Editor, Neuroscience
- 1990 Guest Co-Editor, Yale Journal of Biology and Medicine, Vol. 63, No. 2, March-April, 1990
- 1991-present Guest Referee Editor, Brain, Behavior and Immunity; Brain Research; Trends in Pharmacological Sciences (TIPS); Physiological Zoology; Regulatory Peptides; Laboratory Animal Science; Proceedings of the National Academy of Science, USA; Journal of Physiology (London)
- 1991-1993 Member, Editorial Boards, American Journal of Physiology (Regulatory, Integrative and Comparative Physiology) and Journal of Applied Physiology

|              |   |
|--------------|---|
| 1992-present | Guest Referee Editor, Journal of Pharmacology and Experimental Therapeutics; Neuroendocrinology; Proceedings of the Society for Experimental Biology and Medicine |
| 1994-2003    | Associate Editor, News In Physiological Sciences (NIPS)   |
| 1994-1996    | Member, Editorial Board, American Journal of Physiology: Regulatory, Integrative and Comparative Physiology   |
| 1995-present | Member, Editorial Board, NeuroImmunoModulation  |
| 1996-2002    | Associate Editor, American Journal of Physiology: Regulatory, Integrative and Comparative Physiology  |
| 1997-present | Guest Referee Editor, Life Sciences   |
| 1999-present | Guest Referee Editor, The Lancet  |
| 2000-present | Member, Editorial Board, Neuroimmune Biology  |
| 2000-present | Guest Referee Editor, Israel Journal of Zoology; Clinical Infectious Diseases; Neuropharmacology  |
| 2001-2007    | Member, Editorial Board, American Journal of Physiology: Regulatory, Integrative and Comparative Physiology   |
| 2002-present | Guest Referee Editor, Research in Veterinary Science; British Journal of Pharmacology   |
| 2003-present | Guest Referee Editor, Synapse; Frontiers in Bioscience; Journal of Comparative Neurology  |
| 2007-present | Managing Editor, Frontiers in Bioscience/Special Issue: Current Issues in Thermal Physiology  |

#### B. PEER REVIEW ACTIVITIES

|              |   |
|--------------|---|
| 1974-76      | Member, Research and Education Committee (Grants and Programs Review), Veterans Administration Hospital, Memphis, TN  |
| 1975-present | <i>Ad Hoc</i> Program Consultant (Grant Application Reviewer): National Research Council of Canada; The National Foundation - March of Dimes; Veterans' Administration Central Office; National Science Foundation (Regulatory Biology; Integrative Neural Systems); National Institutes of Health (Site Visiting Teams and <i>Ad Hoc</i> Study Sections) |
| 1983-91      | Member, Commission on Thermal Physiology, International Union of Physiological Sciences (IUPS)  |
| 1984         | External Referee, Tenure and Promotions Committee, Tufts University, Medford, MA  |

- 1985 External Referee, Tenure and Promotions Committee, University of Waterloo, Waterloo, Ontario, Canada
- 1987-88 *Ad Hoc* Member, Respiratory Applied Physiology Study Section, NIH
- 1991-present *Ad Hoc* Reviewer, The Israel Academy of Sciences and Humanities, Jerusalem, Israel; The Wellcome Trust, London, UK
- 1991-96 Chairman, Commission on Thermal Physiology, IUPS
- 1992 Member, International Organizing Committee, 1st International Congress of the African Association of Physiological Sciences, Nairobi, Kenya
- 1992-1999 Member, Advisory Council, Max-Planck-Institut-W. G. Kerckhoff-Institut, Bad Nauheim, Germany
- 1993 External Referee, Doctoral Thesis, Laval University, Québec City, Québec, Canada
- 1993 External Referee, Tenure and Promotions Committee, University of California, Santa Barbara, CA.
- 1994 External Referee, Doctoral Thesis, University of the Witwatersrand, Johannesburg, S.A.
- 1994 External Referee, Tenure and Promotions Committee, University of Manchester, Manchester, UK
- 1996 External Reviewer, Foundation for Research Development, Pretoria, South Africa; Alzheimer Society of Canada, Toronto, Ont., Canada
- 1997 External Reviewer, NATO, Scientific and Environmental Affairs Division, Brussels, Belgium; Temporary Reviewer, Respiratory and Applied Physiology Study Section, NIH, Bethesda, MD; Foundation for Research Development, Pretoria, South Africa; Austrian Science Fund (FWF), Vienna, Austria
- 1999 External Referee, Distinguished University Professor Appointment Committee, University of Colorado, Boulder, CO
- 1999-2005 Chairman, Advisory Council, Max-Planck-Institut-W. G. Kerckhoff-Institut, Bad Nauheim, Germany
- 2000 External Referee, Tenure and Promotions Committee, University of Manchester, Manchester, UK
- 2001 External Reviewer, South African National Research Foundation, Pretoria, South Africa; *Ad Hoc* Reviewer NIH/NCI, American Institute of Biological Sciences (AIBS)

2002-present     Lead Reviewer, APS Archives of Teaching Resources; *Ad hoc* Reviewer, NIH/IFCN-2 Special Study Section

### C. CONSULTANTSHIPS

1967                Member, Planning Committee on Human Adaptability to High Terrestrial Altitudes, World Health Organization/Pan American Health Organization/International Biological Program Conference, Washington, DC

1974-76            Curriculum Consultant, Curriculum Committee, School of Medicine, University of Guanajuato, Leon, Gto., Mexico

1975-76            Member (Physiology), State Board of Basic Science Examiners, Licensing Board for the Healing Arts, Nashville, TN

1993-present     Reviewer, Program on Cold Pathophysiology, Naval Medical Research and Development Command, Bethesda, MD

2003-present     Member, Gerson Lehrman Group Healthcare Council

### RESEARCH INTERESTS:

Central control of host defense mechanisms (neuroimmunomodulation): febrile, acute-phase, innate immune responses; peripheral pyrogen signaling of the brain; associated pathways and neuromodulators: monoamines, eicosanoids, immunopeptides, neuropeptides; CNS effects of pyrogenic mediators; regulation of body temperature

### SPECIALIZED RESEARCH TECHNIQUES:

Intracerebral microinjections, intracerebral microdialysis, electrolytic lesions, chemical lesions, thermodes, microknife cuts  
 Brain slices - preparation and electrophysiological recording, perfusion technique, punch technique  
 Cytokines - biological assays, ELISA, Multiplex  
 Assays of released endogenous factors - RIA, REA, HPLC/EC, RID  
 Autoradiography  
 Neurohistological staining  
 Reference sample microsphere technique  
 Intravascular/intracardiac catheterization  
 Cell-line cultures  
 Immunohistochemistry  
 Confocal laser scanning microscopy  
*In vivo* measurement of physiological variables

### EXTRAMURAL RESEARCH SUPPORT (last 21 years):

|              |                 |   |
|--------------|-----------------|---|
| NIH HD-10329 | 5/1/76-4/30/79  | "Ontogeny of Hypothalamic Fever Mechanisms" |
| NIH CA-20964 | 9/30/76-8/31/78 | "Environmental Stress and Tumorigenesis"    |

|                 |                 |  |
|-----------------|-----------------|--|
| NIH AI-13244    | 1/1/77-9/30/80  | "Hyperpyrexia Therapy with Helium-Oxygen"                          |
| NIH NS-14929    | 1/1/79-11/30/82 | "Brain Areas Mediating Autonomic and Behavioral Fevers"            |
| NSF BNS-8308257 | 9/1/83-2/14/87  | "Prostanoid Effects on Brain Areas Mediating Fever"                |
| NIH NS-22716    | 9/1/86-8/31/95  | "Central Monoamines in the Acute-Phase Reaction"                   |
| NIH NS-25378    | 4/1/87-3/31/90  | "Neural Modulation of Immune Responses" (Co-Investigator)          |
| NIH HL-47650    | 2/1/92-2/28/96  | "Heat Exposure, Dehydration and Fever"                             |
| NIH NS-34857    | 7/1/96-3/31/05  | "Pathophysiology of Endotoxin-Mediated Fever"                      |
| NIH NS/AI-38594 | 7/1/00-10/30/06 | "PGE <sub>2</sub> and Fever: Insights from Transgenic Mice Models" |

#### **SCIENTIFIC SESSIONS CHAIRED (since 1980):**

Session on "Fever," the Satellite Symposium on Thermal Physiology, 28th International Congress of Physiological Sciences, Pécs, Hungary, July, 1980

Symposium on "The Newer Putative Central Neurotransmitters: Roles in Thermoregulation," the 65th Annual Meeting of the Federation of American Societies for Experimental Biology, Atlanta, GA, April, 1981

Session on "Fever," the Satellite Symposium on Thermal Physiology, 29th International Congress of Physiological Sciences, Marcoola, Queensland, Australia, August, 1983

Session on "Effects of IL-1 on Physiology and Behavior," International Symposium on "The Physiologic, Metabolic and Immunologic Actions of Interleukin-1," Ann Arbor, MI, June, 1985

Session on "Temperature Regulation I: Feedback System and Functional Interactions," International Symposium on "Thermoreception and Temperature Regulation," Marburg, FRG, July, 1988

Session on "Temperature Regulation," APS Fall Meeting, Montréal, Qué., Canada, October, 1988

Session on "Brain Cooling," The Satellite Symposium on Thermal Physiology, 31st International Congress of Physiological Sciences, Tromso, Norway, July, 1989

Session on "Aging," International Congress on "Distress, Neuroimmunomodulation and Ontogeny," Madonna di Campiglio, Italy, July, 1989

Symposium on "Recent Developments in Thermoregulation Research," European Regional Meeting of the IUPS, Prague, Czechoslovakia, July, 1991

Session on "Fever," 8th International Symposium on the "Pharmacology of Thermoregulation," Calgary, Canada, August, 1991

Symposium on "Thermal Physiology," 1st International Congress of African Association of Physiological Sciences, Nairobi, Kenya, September, 1992.

Session on "Mechanisms of Fever", International Symposium on Integrative and Cellular Aspects of Autonomic Functions: Temperature- and Osmoregulation", Max-Planck-Institut, Bad Nauheim, Germany, July 1993.

Session on "Fever as a Neuroimmunological Endocrine Phenomenon", 32nd Congress of the IUPS, Glasgow, UK, August 1993.

Session on "Fever", International Symposium on Thermal Physiology, Aberdeen, UK, August 1993.

Workshop on "Cytokines: Sources and Effects," 2nd International Congress of ISNIM, Paestum, Italy, September 1993.

Session on "Fever", 9th International Symposium on the Pharmacology of Temperature Regulation, Giessen, Germany, August 1994.

Symposium on "Actions of Cytokines in Brain-Immune Interactions," 2nd International Congress of Pathophysiology, Kyoto, Japan, November 1994.

Session on "Alterations in Body Temperature: Etiologies and Treatment", Tenth International Symposium on the Pharmacology of Thermoregulation, Memphis, TN, August 1996.

Symposium on "Milestones in Thermal Physiology", Experimental Biology '97, New Orleans, L A, April 1997.

Session on "Fever", Experimental Biology '98, San Francisco, CA, April 1998.

Featured Topic on "Cytokines in Temperature Regulation", Experimental Biology '99, Washington, DC, April 1999.

Workshop on "Nitric Oxide in Thermoregulation: Current Status", XI International Symposium on the Pharmacology of Temperature Regulation, Sevilla, Spain, May 1999.

Session on "Mechanisms for Cytokine Signalling", Symposium on "Cytokines and the Brain 2", 20th Annual Meeting of the Society for Neuroscience, New Orleans, LA, November 2000.

Symposium on "Vagal Mechanisms of Visceral Sensation: Emerging Concepts", Experimental Biology 2001, Orlando, FL, April 2001.

Featured Topic on "Eicosanoids and Fever", Experimental Biology 2002, New Orleans, LA, April 2002.

Symposium on "Fever, Hyperpyrexia and Thermogenesis", Stockholm, Sweden, June 2002.

Symposium on "The Saga of Fever", Experimental Biology 2004, Washington, DC, April 2004.

Session on "Fever", The 1st Integrated Symposium on Thermal Physiology and Pharmacology of Thermoregulation, Rhodes, Greece, October 2004.

Featured Topic on "Pyrogen-Sensing and -Suppressing Pathways Mediating the Febrile Response", Experimental Biology/International Union of Physiological Sciences Congress 2005, San Diego, CA, April 2005.

Session on "Frontiers of Thermoregulation", The 2nd International Meeting on the Physiology and Pharmacology of Temperature Regulation, Phoenix, AZ, March 2006.

#### **INVITED LECTURES (since 1980):**

"Functional Anatomy of the Hypothalamus from the Point of View of Temperature Regulation," Introductory Review Lecture, Session on "CNS Control Mechanisms," the Satellite Symposium on Thermal Physiology, 28th International Congress of Physiological Sciences, Pécs, Hungary, July, 1980

"Central Distribution of the 'Newer' Neurotransmitters," Symposium on "The Newer, Putative, Central Neurotransmitters: Roles in Thermoregulation," the 65th Annual Meeting of the Federation of American Societies for Experimental Biology, Atlanta, GA, April, 1981

"Perinatal Thermoregulation: Recent Advances," Workshop on Mechanismus der Temperaturregulation und -adaptation," Max-Planck-Institut, Bad-Nauheim, FRG, October, 1981

"Endogenous Pyrogen - Sources, Targets and Actions," sponsored by the Czechoslovak Physiological and Pharmacological Societies and the Institute of Pharmacology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia, November, 1981

"Endogenous Pyrogen: Fever and Associated Effects - An Update," Review Lecture, Session on "Fever," the Satellite Symposium on Thermal Physiology, 29th International

Congress of Physiological Sciences, Marcoola, Queensland, Australia, August, 1983

"Interactions between Interleukin-1 and Opioid Binding Sites in Guinea Pig Brain," 1st International Workshop on Neuroimmunomodulation, Washington, DC, December, 1984

"CNS Effects of Interleukin-1," International Symposium on "The Physiologic, Metabolic and Immunological Actions of Interleukin-1," Ann Arbor, MI, June, 1985

"Fever: Is It Beneficial?," Working Symposium entitled "International Symposium to Debate Current Issues in Thermal Physiology," John B. Pierce Foundation Laboratory, Yale University, New Haven, CT, June, 1985

"Fever and Associated Events: An Update of New Observations," Plenary Lecture, Japanese Clinical Thermometry Association, Tokyo, Japan, June, 1986

"Neurochemistry of Fever," 2nd World Congress of Neurosciences, Budapest, Hungary, August, 1987

"Thermal Homeostasis in Newborn and Young Age," IUPS International Symposium on "Milestones in Environmental Physiology," University of Nevada, Las Vegas, NV, April, 1988

"Neurobiology of Endogenous Pyrogens," International Symposium on "Thermoreception and Temperature Regulation," Philipps-Universität, Marburg, FRG, July, 1988

"Central Actions of Interleukin-1," Symposium on "Interleukin-1: Immune and Neural Modulator," 18th Annual Meeting of the Society for Neuroscience, Toronto, Ont., Canada, November, 1988

"Homologies between Sleep Factors and Endogenous Thermoregulatory Substances," U. S.-Japan Joint Conference on "Endogenous Sleep Factors," Honolulu, HA, November, 1988

"Neural Effects of Cytokines," Symposium on "Central Nervous Mechanisms of Host Defense Responses," 73rd Annual Meeting of the Federation of Societies for Experimental Biology, New Orleans, LA, March, 1989

"Cytokines as Endogenous Pyrogens," 1st Congress of the International Endotoxin Society, San Diego, CA, May, 1990

"The Role of Neuropeptides in Thermoregulation," 20th International Congress of Neurovegetative Research, Tokyo, Japan, September, 1990

"Ontogeny of Fever," Animal Models of AIDS, NICHD Workshop, Washington, D.C., October, 1990.

"Role of the Organum Vasculosum Laminae Terminalis in the Febrile Response to Circulating Pyrogens." IV International Reinhardtsbrunn Symposium on Circumventricular Organs, Leipzig, Germany, March, 1991.

"Is the Febrile Action of Endogenous Pyrogens Central or Peripheral?" International Wenner-Gren Symposium on "Neuroimmunology of Fever," Stockholm, Sweden, June, 1991.

"Fever and Associated Events: An Update," IUPS Symposium on "Recent Developments in Thermoregulation Research", Prague, Czechoslovakia, July, 1991.

"Hypothalamic Norepinephrine and Body Temperature Control: Another Look," 8th International Symposium on the "Pharmacology of Thermoregulation," Calgary, Canada, August, 1991.

"Combined Heat Stress and Fever: Competing Homeostatic Demands," 1st International Congress of African Association of Physiological Sciences, Nairobi, Kenya, September, 1992.

"Circumventricular Organs in Temperature Regulation", FASEB Summer Conference on "Neuronal Circumventricular Organs in Homeostatic Pathways: A Tribute to Alan N. Epstein 1932-1992", Saxtons River, VT, July 1993.

"Fever and Preoptic Norepinephrine", International Symposium on "Integrative and Cellular Aspects of Autonomic Functions: Temperature- and Osmoregulation", Bad Nauheim, Germany, July 1993.

"Central Modulation of the Febrile Response", Symposium on "Fever as a Neuroimmunological Endocrine Phenomenon", 32nd Congress of the IUPS, Glasgow, UK, August 1993.

"Neuromodulation of Fever: A Possible Role for Substance P", 2nd International Congress of ISNIM, Paestum, Italy, September 1993.

"Circulating Cytokine Signalling of the Brain", 18th Congress of the Association of Latin American Societies for Physiological Sciences, Montevideo, Uruguay, April 1994.

"Opioids and Fever," 9th International Symposium on the Pharmacology of Temperature Regulation, Giessen, Germany, August 1994.

"Prostaglandin E<sub>2</sub> as a Fever Mediator: A Further Look," 2nd International Congress of Pathophysiology, Kyoto, Japan, November 1994.

"Intrapreoptic Norepinephrine and Fever," 2nd International Congress of Pathophysiology, Kyoto, Japan, November 1994.

"Biphasic Fever: What Triggers the Second Body Temperature Rise?," 2nd International Congress of Pathophysiology, Kyoto, Japan, November 1994.

"The Pyrogenic Action of Cytokines," The 4th Naito Conference on Neuro-ImmunoEndocrine Networks, Gifu, Japan, November 1994.

"Communication Pathways between the Immune System and the Brain: The Neurohormonal (OVLT) Hypothesis," Symposium on The Cytokines as Communication Factors between the Immune System and the Central Nervous System, Arcachon, France, September 1995.

"Infective Fever: Basic Principles and Clinical Management", Tenth International Symposium on the Pharmacology of Thermoregulation, Memphis, TN, August 1996.

"Circulating Pyrogen Signalling of the Brain: A New Working Hypothesis", Tenth International Symposium on the Pharmacology of Thermoregulation, Memphis, TN, August 1996.

"Cytokines and Fever", Third Congress of the International Society for Neuroimmunomodulation, Bethesda, MD, November 1996.

"Cytokines in Thermoregulation", Society for Neuroscience Satellite Symposium on Cytokines and the Brain, New Orleans, LA, October 1997.

"Afferent Pathways of Pyrogen Signaling", International Symposium on the Molecular Mechanisms of Fever, Santa Fe, NM, November 1997.

“Competition for Shared Effectors by Combined Heat, Hypohydration and Fever: How Is It Resolved?” 1998 International Symposium on Human Biometeorology, Yamanashi, Japan, September 1998.

“Endotoxic Fever: Neuroimmune Basis”, Minisymposium on Recent Advances in Environmental Pathophysiology, Kanazawa, Japan, September 1998.

“Signaling of the Brain by Peripheral Pyrogens”, Symposium in honor of Dr. F. Cocconi, Toronto, Ontario, April 1999.

“Cytokines and Body Temperature in Health and Disease”, Featured Topic: Cytokines and Body Temperature in Health and Disease, Experimental Biology '99, Washington, DC, April 1999.

“Complement and the Pathogenesis of Endotoxic Fever”, 11th International Symposium on the Pharmacology of Temperature Regulation, Sevilla, Spain, May 1999.

“Peripheral Mechanisms of Fever”, International Symposium on Antipyretic Therapy, Parson's Island, MD, August 1999.

“Prostaglandin E<sub>2</sub>: A Fever Mediator”, International Symposium on Antipyretic Therapy, Parson's Island, MD, August 1999.

“Helium-Oxygen: A Coolant in the Management of Fever?”, International Symposium on Antipyretic Therapy, Parson's Island, MD, August 1999.

“Complement: An “Alarm” Molecule in Endotoxic Fever?”, Festschrift in honor of Prof. T. Hori, Kyushu University Faculty of Medicine, Fukuoka, Japan, March 2000.

“Vagal Afferent Signaling: In Search of the Initiatory Trigger”, Symposium on “Fever: The Role of the Vagus”, Experimental Biology 2000, San Diego, CA, April 2000.

“Fever Induction by Endotoxin: Are Cytokines, Prostaglandins, or Other Molecules the Primary Signals?”, Symposium on “Cytokines and the Brain 2”, 20th Annual Meeting of the Society for Neuroscience, New Orleans, LA, November 2000.

"Cyclooxygenases and the Pathogenesis of Fever", Winter Eicosanoid Conference 2001, Baltimore, MD, March 2001.

"Eicosanoids and Fever", Featured Topic on "Eicosanoids and Fever", Experimental Biology 2002, New Orleans, LA, April 2002.

"Pyrogen Signalling", Wenner-Gren Foundation Symposium on "Fever, Hyperpyrexia and Thermogenesis", Stockholm, Sweden, June 2002.

“Norepinephrine, Cyclooxygenase-2 and Endotoxic Fever”, Winter Eicosanoid Conference 2003, Baltimore, MD, March 2003.

“Fever - A Hot Topic”, American Physiological Society Environmental and Exercise Physiology Awards Banquet Address, San Diego, CA, April 2003.

“Complement and the Pathogenesis of Endotoxic Fever”, 2nd Workshop on “Complement-Associated Diseases, Animal Models, and Therapeutics”, Mykonos, Greece, June 2003.

“Endogenous Pyrogens”, Symposium on “The Saga of Fever”, Experimental Biology 2004, Washington, DC, April 2004.

“Complement Is Required for the Induction of Endotoxic Fever”, 1st Integrated Symposium on the Physiology and Pharmacology of Temperature Regulation, Rhodes, Greece, October 2004.

“Possible Sequence of Pyrogenic Afferent Processing in the POA”, 1st Integrated Symposium on the Physiology and Pharmacology of Temperature Regulation, Rhodes, Greece, October 2004.

“The Cytokine-Prostaglandin Cascade in Fever Production: Fact or Fancy?” (Keynote), 1st Integrated Symposium on the Physiology and Pharmacology of Temperature Regulation, Rhodes, Greece, October 2004.

“A Factor Derived from the Spleen Attenuates Hepatic LPS Uptake and the Febrile Response: A Novel Antipyretic Mechanism?”, Featured Topic on “Pyrogen-Sensing and – Suppressing Pathways Mediating the Febrile Response”, Experimental Biology/International Union of Physiological Sciences Congress 2005, San Diego, CA, April 2005.

“The Events of the Body’s Innate Defense Response to Invading Pathogens”, Lecture presented on the occasion of the 30th anniversary of the Institute of Occupational and Environmental Health, University of Guanajuato, Leon, Gto., Mexico, March 2007.

“Gram-Negative Bacterial Infection: The Fever-Inducing Mechanism”, Lecture (keynote) presented on the occasion of the 30th anniversary of the Institute of Occupational and Environmental Health, University of Guanajuato, Leon, Gto., Mexico, March 2007.

“Preventing Dangerous Fevers: Endogenous Antipyresis”, Lecture presented on the occasion of the 30th anniversary of the Institute of Occupational and Environmental Health, University of Guanajuato, Leon, Gto., Mexico, March 2007.

“Nuevos Conceptos sobre la Patofisiología de la Fiebre”, Lecture presented on the occasion of the 50th anniversary of the Faculty of Medicine, National University of Trujillo, Trujillo, Peru, April 2007.

### **INVITED SEMINARS (since 1980):**

1980 St. Thomas's Hospital Medical School, London, Department of Medicine  
University of Louisville, Department of Physiology  
University of Alaska, Fairbanks, Institute for Arctic Biology  
Charles University, Prague, Institute of Pharmacology  
Comenius University, Bratislava, Czechoslovakia, Institute of Pharmacology

- 1981 Ohio State University, Columbus, Department of Physiology  
Pécs Medical University, Pécs, Hungary, Department of Pathophysiology  
Max-Planck-Institut, W. G. Kerckhoff-Institut, Bad-Nauheim, FRG
- 1982 Texas College of Osteopathic Medicine, Ft. Worth, Department of Physiology  
Southern Illinois University, Carbondale, Department of Physiology
- 1983 University of California, Santa Barbara, Institute of Environmental Stress  
University of Melbourne, Australia, Howard Florey Institute  
University of Tasmania, Australia, Department of Physiology  
Clunies Ross Animal Research Laboratory, Prospect, NSW, Australia
- 1984 University of Michigan, Department of Physiology
- 1985 Universidad Nacional de Trujillo, Peru, Departments of Physiology and Medicine  
Texas College of Osteopathic Medicine, Ft. Worth, Department of Pharmacology  
Texas Tech University, Department of Physiology
- 1986 Kanazawa University School of Medicine, Japan, Department of Physiology  
University of Nagasaki, Japan, Institute of Tropical Medicine  
Saga Medical School, Japan, Department of Physiology  
University of Yamaguchi, Japan, Department of Physiology  
Osaka University Medical School, Japan, Department of Physiology  
Yamanashi Medical College, Japan, Department of Physiology  
Kureha Biomedical Research Laboratories, Tokyo, Japan  
Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan  
University of Hawaii, Department of Physiology  
Loyola University Stritch School of Medicine, Department of Physiology
- 1987 University of Szeged, Hungary, Department of Physiology  
Pécs Medical University, Pécs, Hungary, Department of Pathophysiology  
King's College, London, Department of Physiology
- 1988 University of Bochum, FRG, Institute of Physiology
- 1989 University of Minnesota, Duluth, Department of Physiology
- 1991 University of Tennessee, Memphis, The Center for Neuroscience
- 1992 Sigma Xi Colloquium, University of Tennessee, Memphis Chapter  
Cornell University, Ithaca, NY, Department of Physiology  
University of the Witwatersrand, Johannesburg, South Africa, Department of Physiology  
University of Iowa, Iowa City, Department of Physiology
- 1993 Ohio State University, Columbus, Department of Physiology
- 1994 National University of Trujillo, Trujillo, Peru, Departments of Physiology, Anatomy, Medicine, and Pediatrics  
University of Lambayeque, Chiclayo, Peru, Department of Medicine  
Peruvian University "Cayetano Heredia," Lima, Peru, Departments of Medicine and Infectious Diseases

- Yamanashi Medical University, Kofu, Japan, Department of Physiology  
University of Kanazawa Medical School, Kanazawa, Japan, Department of Physiology
- 1996 Louisiana State University, Shreveport, LA, Department of Pharmacology
- 1997 University of California, Davis, Department of Neurobiology  
University of California, San Francisco, Department of Anesthesiology  
University of Tennessee, Memphis, The Center for Neuroscience
- 1998 Peruvian University "Cayetano Heredia", Lima, Peru, Alexander von Humboldt Institute of Tropical Medicine  
National University of Trujillo, Trujillo, Peru, Faculty of Sciences and Philosophy  
Kyushu University Faculty of Medicine, Fukuoka, Japan, Department of Philosophy  
University of Occupational and Environmental Health, School of Medicine, Kitakyushu, Japan, Department of Physiology  
Legacy Health System, Portland, OR, Thermoregulation Laboratory
- 1999 Ohio State University, Columbus, OH, Department of Physiology and Biophysics  
University of Florida, Gainesville, FL, Department of Physiology  
Charles University, Faculty of Medicine, Prague, Czech Republic, Department of Pharmacology  
Pecs Medical University, Pecs, Hungary, Department of Pathophysiology Institut Pasteur, Paris, France, Unité d'Immuno-Allergie
- 2000 Fordham University, Bronx, NY, Department of Biology
- 2001 Veterans Administration Medical Center, Department of Medicine - Rheumatology, Memphis, TN
- 2002 University of Tennessee Health Science Center, Memphis, Department of Pharmacology, Department of Medicine-Cardiology  
Howard Florey Institute, University of Melbourne, Parkville, Victoria, NSW, Australia
- 2003 University of Tennessee Health Science Center, Memphis, Department of Anatomy and Neurobiology, and Department of Physiology
- 2003 Temple University Center for Substance Abuse Research, Philadelphia, PA
- 2003 Scuola Superiore S. Anna, Pisa, Italy
- 2004 Veteran Administration Medical Center, Center of Excellence for Diseases of Connective Tissue, Memphis, TN
- 2005 University of Tennessee Health Science Center, Memphis, Department of Physiology
- 2006 University of Tennessee Health Science Center, Memphis, Department of Medicine, Division of Gastroenterology  
Justus-Liebig University, Giessen, Germany, Department of Veterinary Physiology

Copernicus University, Turun, Poland, Department of Microbiology  
Charles University, Prague, Czech Rep., 2<sup>nd</sup> Department of Physiology

2008 University of Tennessee Health Science Center, Memphis, The Neuroscience Institute, and Department of Physiology  
Union University, Albany College of Pharmacy, Department of Basic and Pharmaceutical Sciences

### **FOREIGN LANGUAGES:**

French  
Spanish  
German

### **PUBLICATIONS:**

#### **A. BOOKS AND MONOGRAPHS:**

1. Fregly, M. J., and C. M. Blatteis, co-eds. *Handbook of Physiology*, Sec. 4: Environmental Physiology, Vols. I and II. American Physiology Society. Oxford Univ. Press: New York, 1586 pp., 1996.
2. Blatteis, C. M., ed. *Thermoregulation: Recent Progress and New Frontiers*. Ann. NY Acad. Sci., Vol. 813, 878 pp., 1997.
3. Blatteis, C. M., ed. *Physiology and Pathophysiology of Temperature Regulation*. World Scientific Publishing Co.: Singapore, 294 pp., 1998.
4. Blatteis, C. M., and J. A. Boulant. *Contributors to Thermal Physiology: A 50-Year Memoir*. American Physiological Society (invited; in preparation).
5. Blatteis, C. M., ed. *Current Issues in Thermal Physiology*. In: *Frontiers in Bioscience* (invited; in preparation).
6. Blatteis, C. M., ed. *Current Issues in Fever Research*. In: *Research Signpost* (invited; in preparation).

#### **B. REVIEW ARTICLES AND BOOK CHAPTERS:**

1. Blatteis, C. M. The Reactions of the Newborn to Cold and Altitude. In: *The Physiology of Work in Cold and at Altitude*, Arctic Biol. Med. VI, C. Helfferich, ed., Arctic Aeromed. Lab.: Ft. Wainwright, AK, pp. 59-111, 1968.
2. Blatteis, C. M. Thermoregulatory Heat Production during Hypoxia. In: *Influence of Cold on Metabolic Regulation*, E. M. Zipf, ed., Bull. N. J. Acad. Sci. Special Symposium Issue: 11-16, 1969.
3. Blatteis, C. M. Shivering and Nonshivering Thermogenesis during Hypoxia. In: *Proc. Internat. Symp. Environ. Physiol.* (Bioenergetics), R. Em. Smith *et al.*, eds. FASEB: Bethesda, MD, pp. 151-160, 1972.

4. Blatteis, C. M. Ontogenetic Development of Fever Mechanism. Chap. 19. In: *Fever*, J. M. Lipton, ed., Raven: New York, pp. 17-188, 1980.
5. Blatteis, C. M. Functional Anatomy of the Hypothalamus from the Point of View of Temperature Regulation. In: *Contributions to Thermal Physiology*, Z. Szelényi and M. Székely, eds., Akadémiai Kiado: Budapest, pp. 3-12, 1980.
6. Blatteis, C. M. Hypothalamic Substances in the Control of Body Temperature: General Characteristics. *Fed. Proc.* 40: 2735-2740, 1981.
7. Blatteis, C. M. Research in Perinatal Thermoregulation: Recent Advances. *J. Therm. Biol.* 8: 191-194, 1983.
8. Blatteis, C. M. Endogenous Pyrogen: Fever and Associated Effects - An Update. In: *Thermal Physiology*, J. R. S. Hales, ed., Raven: New York, pp. 539-546, 1984.
9. Blatteis, C. M. Central Nervous System Effects of Interleukin-1. In: *The Physiologic, Metabolic and Immunologic Actions of Interleukin-1*, M. J. Kluger, J. J. Oppenheim, and M. C. Powanda, eds., Liss: New York, pp. 107-120, 1985.
10. Blatteis, C. M. Fever: Is It Beneficial? *Yale J. Biol. Med.* 59: 107-116, 1986.
11. Blatteis, C. M. Neural Mechanisms in the Pyrogenic and Acute-Phase Responses to interleukin-1. *Internat. J. Neurosci.* 38: 223-232, 1988.
12. Blatteis, C. M. Thermal Homeostasis during the Neonatal Period. In: Milestones in Environmental Physiology, M. Yousef, ed., *Progress in Biometeorology* 7: 35-40, 1989.
13. Blatteis, C. M. The Neurobiology of Endogenous Pyrogens. In: *Thermoreception and Temperature Regulation*, J. Bligh and K. H. Voigt, eds., Springer: Berlin, pp. 257-272, 1990.
14. Blatteis, C. M. Functional Similarities between Somnogens and Pyrogens: Fortuity or Grand Design? In: *Endogenous Sleep Factors*, S. Inoué and J. M. Krueger, eds., SPB Academic: The Hague, pp. 249-256, 1990.
15. Blatteis, C. M. Neuromodulative Actions of Cytokines. *Yale J. Biol. Med.* 63: 133-146, 1990.
16. Blatteis, C. M. Cytokines as Endogenous Pyrogens. In: *Cellular and Molecular Aspects of Endotoxin Reactions*, A. Nowotny, J. J. Spitzer and E. J. Ziegler, eds., Elsevier: Amsterdam, pp. 447-454, 1990.
17. Blatteis, C.M. Pyretic Peptides. In: *New Trends in Autonomic Nervous System Research*, M. Yoshikawa, M. Uono, H. Tanabe and S. Ishikawa, eds., Elsevier: Amsterdam, pp. 80-85, 1991.
18. Quan, N., and C. M. Blatteis. Thermoregulatory Effect of Intrapreoptically Microdialyzed Norepinephrine: Its Apparently Antagonistic Interaction with Prostaglandin E<sub>2</sub>. In: *New Trends in Autonomic Nervous System Research*, M. Yoshikawa, M. Uono, H. Tanabe and S. Ishikawa, eds., Elsevier: Amsterdam, pp. 104-105, 1991.

19. Blatteis, C. M. The OVLT: The Interface between the Brain and Circulating Pyrogens? In: *Neuroimmunology of Fever*. T. Bartfai and D. Ottoson, eds., Pergamon Press: Oxford, pp. 167-176, 1992.
20. Blatteis, C. M. The Role of the OVLT in the Febrile Response to Circulating Pyrogens. *Progr. Brain Res.* 91: 409-412, 1992.
21. Blatteis, C. M. The Pyrogenic Action of Cytokines. In: *Interleukin-1 in the Brain.*, N. J. Rothwell and R. Dantzer, eds., Pergamon Press: Oxford, pp. 93-114, 1992.
22. Blatteis, C. M. Methods for Evaluating Neural Mechanisms in the Pyrogenic and Acute-Phase Responses to Cytokines. In: *Methods in Neuroscience, vol. 17, Neurobiology of Cytokines, Part B*, E. B. DeSouza, ed., Academic: Orlando, pp. 78-95, 1993.
23. Blatteis, C. M., and A. A. Romanovsky. Endogenous Opioids and Fever. In: *Thermal Balance in Health and Disease: Recent Basic Research and Clinical Progress*, E. Zeisberger, E. Schönbaum, and P. Lomax, eds., Birkhäuser: Basel, pp. 435-441, 1994.
24. Blatteis, C. M. The Fever Syndrome. In: *Humoral Factors Influencing Body Temperature*, M. Iriki, ed., Bunkodo: Tokyo, pp. 77-85, 1995.
25. Fregly, M. J., and C. M. Blatteis. Preface. In: *APS Handbook of Physiology, Sec. 4: Environmental Physiology*, M. J. Fregly and C. M. Blatteis, eds., Oxford, p. V, 1996.
26. Blatteis, C. M., and M. J. Fregly. Introduction. In: *APS Handbook of Physiology, Sec. 4. Environmental Physiology*, M. J. Fregly and C. M. Blatteis, eds., Oxford: New York, pp. XIX-XXII, 1996.
27. Hunter, W. S., and C. M. Blatteis. Physical Forces, Sensory Reception, and Response to the Environment. Chap. 2. In: *APS Handbook of Physiology, Sec. 4. Environmental Physiology*, M. J. Fregly and C. M. Blatteis, eds., Oxford: New York, pp. 17-34, 1996.
28. Toth, L. A., and C. M. Blatteis. Adaptation to the Microbial Environment. Chap. 66. In: *APS Handbook of Physiology, Sec. 4. Environmental Physiology*, M. J. Fregly and C. M. Blatteis, eds., Oxford: New York, pp. 1489-1519, 1996.
29. Blatteis, C. M., and E. Sehic. Fever: How May Circulating Pyrogens Signal the Brain? *NIPS* 12: 1-9, 1997.
30. Blatteis, C. M., and E. Sehic. Prostaglandin E<sub>2</sub>: A Putative Fever Mediator. In: *Fever: Basic Mechanisms and Management*, 2nd ed., P. Mackowiak, ed., Raven-Lippincott: New York, pp. 117-145, 1997.
31. Blatteis, C. M. Temperature Regulation. In: *Principles of Medical Biology*, E. E. Bittar and N. Bittar, eds., Jai Press: Greenwich, CT (in press).
32. Blatteis, C. M. Preface. *Ann. NY Acad. Sci.* 813: XV-XVI, 1997.
33. Romanovsky, A. A., and C. M. Blatteis. Pathophysiology of Opioids in Hyperthermic States, *Progr. Brain Res.* 115: 111-127, 1997.

34. Blatteis, C. M., and E. Sehic. Cytokines and Fever. *Ann. NY Acad. Sci.* 840: 608-618, 1998.
35. Blatteis, C. M., E. Sehic, and S. Li. Afferent pathways of pyrogen signaling. *Ann. NY Acad. Sci.* 856: 95-107, 1998.
36. Blatteis, C. M. Body Temperature. In: *Physiology and Pathophysiology of Temperature Regulation*, C. M. Blatteis, ed., World Scientific: Singapore, pp. 13-22, 1998.
37. Blatteis, C. M. Fever. In: *Physiology and Pathophysiology of Temperature Regulation*, C. M. Blatteis, ed., World Scientific: Singapore, pp. 177-192, 1998.
38. Blatteis, C. M. Temperature Regulation in Special Situations. In: *Physiology and Pathophysiology of Temperature Regulation*, C. M. Blatteis, ed., World Scientific: Singapore, pp. 259-271, 1998.
39. Blatteis, C. M. Methods of Body Temperature Measurement. In: *Physiology and Pathophysiology of Temperature Regulation*, C. M. Blatteis, ed., World Scientific: Singapore, pp. 273-279, 1998.
40. Blatteis, C. M. Book review. "Why Geese Don't Get Obese (but We Do)", by E. P. Windmaier, *The Physiologist*. 42: 63, 1999.
41. Blatteis, C. M. Thermal Stress. In: *Encyclopedia of Stress*, G. Fink, ed., Academic Press: San Diego, pp. 581-584, 2000.
42. Blatteis, C. M., E. Sehic, and S. Li. Complement and the Pathogenesis of Endotoxic Fever. *Int. J. Biometeor.* 43: 176-183, 2000.
43. Blatteis, C. M., and S. Li. Pyrogenic Signaling via Vagal Afferents: What Stimulates Their Receptors? *Autonom. Neurosci.* 85: 66-71, 2000.
44. Blatteis, C. M. Perspectives: Afferent Signaling of Fever. *J. Physiol. (Lond.)*. Invited commentary. 526: 3, 2000.
45. Blatteis, C. M., E. Sehic, and S. Li. Pyrogen Sensing and Signaling: Old Views and New Concepts. *Clin. Infect. Dis.* 31 (Suppl. 5): S168-S177, 2000.
46. Ballou, L. R., C. M. Blatteis, and R. Raghoebar. Elucidation of the Pathophysiological Significance of Prostaglandins Using Cyclooxygenase Gene-Deficient Mice. In: *Safer Anti-Inflammatory Drugs and New Uses for COX-1 Sparing Drugs*. J. R. Vane and R. M. Botting, eds., William Harvey Press: London, pp. 345-372, 2001.
47. Blatteis, C. M. Book review. "The Hot Brain. Survival, Temperature and the Human Body", by C. V. Gisolfi and F. Mora, *The Physiologist* 45: 253, 2002.
48. Blatteis, C. M. Fever: Pathological or Physiological, Injurious or Beneficial? *J Thermal Biol.* 28: 1-13, 2003.
49. Blatteis, C. M., S. Li, Z. Li, V. Perlik, and C. Feleder. Signaling the Brain in Systemic Inflammation: The Role of Complement. *Front. Biosci.* 9: 915-931, 2004.

50. Blatteis, C. M., C. Feleder, V. Perlik, and S. Li. Possible Sequence of Pyrogenic Afferent Processing in the POA. *J. Thermal Biol.* 29: 391-400, 2004.
  51. Blatteis, C. M., S. Li, Z. Li, V. Perlik, and C. Feleder. Complement Is Required for the Induction of Endotoxic Fever in Guinea Pigs and Mice. *J. Thermal Physiol.* 29: 369-381, 2004.
  52. Blatteis, C. M. The Cytokine-Prostaglandin Cascade in Fever Production: Fact or Fancy? *J. Thermal Biol.* 29: 359-368, 2004.
  53. Blatteis, C. M., S. Li, Z. Li, C. Feleder, and V. Perlik. Cytokines, PGE<sub>2</sub> and Endotoxic Fever: A Re-assessment. *Prostaglandins other Lipid Mediat.* 76: 1-18, 2005.
  54. Blatteis, C. M. Endotoxic Fever: New Concepts of Its Regulation Define New Approaches to Its Management. *Pharmacol. Therap.* 111: 194-223, 2006..
  55. Feleder, C., and C. Blatteis. The Role of the Spleen in the Febrile Response Induced by Endotoxin in Guinea Pigs. *J. Thermal Biol.* 31: 220-228, 2006.
  56. Blatteis, C. M. Temperaturregelung. Chap. 9 In: *Pathophysiologie: Molekulare, Zelluläre und Systemische Grundlagen von Erkrankungen*, S. Schwarz, O. Forster, M. Peterlik, K. Schauenstein, and G. Wick, eds. Maudrich Verlag: Vienna, chap. 9, pp. 1-14, 2007.
  57. Blatteis, C. M. Thermal Stress. In: *Encyclopedia of Stress, 2nd Edition*, vol. 3, G. Fink, ed-in-chief. Academic Press: Oxford, pp. 723-726, 2007.
  58. Blatteis, C. M. The Onset of Fever: New Insights into Its Mechanism. In: *Neurobiology of Hyperthermia*, H. S. Sharma, ed. Prog. Brain Res. 162: 3-14, 2007.
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D. ABSTRACTS:

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