

Faculty Biographies

Dharam V. Ablashi, D.V.M., M.S., Dip. Bact.

*Co-Founder, Past President and Treasurer, IACFS
Adjunct Professor of Microbiology, Georgetown
University, Washington, D.C.*

Scientific Director, HHV-6 Foundation

Dharam Ablashi joined the National Cancer Center (NCI) at the National Institute of Health (NIH) in 1969 and served there for 22 years as a Research Microbiologist, Head of DNA Viruses Section and Coordinator of DNA Viruses. He is internationally known for his work on Human and Primate herpesviruses. In 1986, while working in Dr. Robert Gallo's Lab at NCI, he co-discovered HHV-6 and contributed numerous articles in this field. Dr. Ablashi is co-founder of the Epstein-Barr Virus Association and the American Association for Chronic Fatigue Syndrome (AACFS). He also served as President of AACFS from 2003 to 2004. He is co-author of two books on HHV-6 the first in 1992 and the second was released in 2006. After retiring from NCI/NIH, Dr. Ablashi served as director of Herpesvirus Programs at Advanced Biotechnologies Inc. He is an adjunct Professor at Georgetown University School of Medicine and Scientific Director of the HHV-6 Foundation. He served as a consultant and advisor to many profit and non-profit organizations, including United Nations, WHO and NASA. He also helped organize the last four international conferences on HHV-6, HHV-7 and HHV-8.

Frederick Albright, M.S., Ph.D.

*Director, College of Pharmacy Computing Systems
Services, University of Utah*

*Assistant Research Professor, Department of
Pharmacotherapy, University of Utah*

Dr. Albright has served as an assistant research professor in the Department of Pharmacotherapy since 2001 and has developed an introductory course in Pharmacoinformatics for first year Pharm.D. students. He serves as the primary instructor and course master for this course. Currently Dr. Albright is pursuing research interests in Genetic Epidemiology focusing his efforts in familial genetic factors for pain and related syndromes and pharmacogenomics.

J. Alegre-Martin, Ph.D.

*Associate Professor, Department of Chronic Fatigue
Syndrome, Cengro Medico Delfos, Barcelona, Spain,
Coordinator of Chronic Fatigue Syndrome Division at the
University Hospital Vall Hebron in Barcelona. Lecturer of
Medicine at the Autònoma University in Barcelona, Spain.
Assessor of Chronic Fatigue Syndrome at the Generalitat
of Catalunya and at the Ministry of Health in Madrid. His
areas of research in Chronic Fatigue Syndrome are
neurovegetative dysfunction and biological markers in
monocytic cells of peripheral blood. He also treats patients with
chronic fatigue syndrome at the hospital.*

Eric R. Aslakson, M.S.

*Research Fellow, Research Participation Program, Oak
Ridge Institute for Science and Education, Viral
Exanthems and Herpes Branch, Division of Viral and
Rickettsial Diseases, Centers for Disease Control and
Prevention*

Mr. Aslakson began his career studying physics at MIT and astrophysics at Caltech. After graduate school, he worked on engineering and software related projects in California including the Magellan project at the Jet Propulsion Lab, which radar mapped the Venusian surface, a flight simulator for the C-17 aircraft at Douglas Aircraft, audio systems for Hollywood sound stages, a remote controlled satellite repair vehicle for NASA, and several large database oriented client-server projects. His activities then returned to scientific areas. He worked on a large web crawling system at IBM Research in NY and on the Large Hadronic Collider at CERN as a research engineer. Three years ago he joined the CFS group at the CDC. His efforts have been focused on data mining activities related to the Wichita Clinical Survey and to mechanistically model the hypothalamic, pituitary, adrenal axis to gain insights into CFS pathophysiology.

James N. Baraniuk, M.D.

*Associate Professor, Department of Medicine, Georgetown
University*

Dr. Baraniuk is Associate Professor in the Department of Medicine. Dr. Baraniuk's areas of expertise include: neuroimmune regulation of mucosal function in rhinitis, sinusitis, asthma, and chronic fatigue syndrome.

Lucinda Bateman, M.D.

IACFS Board Member

*Adjunct Clinical Faculty, University of Utah, Department
of Internal Medicine*

*Adjunct Instructor, University of Utah, Family and
Preventive Medicine*

Dr. Bateman completed her medical training at the Johns Hopkins School of Medicine, returned to the University of Utah for an internal medicine residency, and became certified by the American Board of Internal Medicine in 1991. She practiced general internal medicine until 2000. In 2000 Dr. Bateman changed her focus, opened a fatigue consultation clinic and has since evaluated more than 800 patients with unexplained chronic fatigue, chronic fatigue syndrome (CFS) and fibromyalgia syndrome (FMS). Dr. Bateman believes chronic fatigue warrants a thorough and cross-disciplinary approach that is often difficult to do in today's primary care setting. Dr. Bateman's goal in establishing her fatigue consultation clinic and the non-profit, OFFER (Organization for Fatigue and Fibromyalgia Education and Research), is to encourage a more thoughtful evaluation process, better sharing of information, and joint research efforts aimed at understanding the cause(s) of CFS and FM. She has given

many lectures on issues relating to CFS and FM. In addition to serving on the Board of the IACFS, she is the co-founder, prior Executive Director, and present board member of the Utah-based non-profit, OFFER, and the Chair of Easter Seals Utah. (2005).

David Bell, M.D. FAAP

IACFS Board Member

Chairman, CFS Advisory Committee of the Department of Health and Human Services

Associate Clinical Professor, Department of Pediatrics, University of NY at Buffalo

Dr. Bell is a graduate of Harvard University with an AB degree in English Literature in 1967, and Boston University School of Medicine with an MD degree in 1971. He completed pediatric specialty training in 1976, with subspecialty training in Behavior Disorders of Childhood. In 1985 he studied an outbreak of an illness that has subsequently been called Chronic Fatigue-Immune Dysfunction Syndrome, also known as Chronic Fatigue Syndrome. He has presented materials at numerous medical conferences around the world, has published papers in leading medical journals and has written several books on this subject. Dr. Bell currently serves on the Board of Directors for the International Association for Chronic Fatigue Syndrome and as Editor of the IACFS Newsletter. The U.S. Department of Health and Human Services recently appointed Dr. Bell to the position of Chairman of the newly formed CFS Advisory Committee.

Karen J. Berkley, Ph.D.

McKenzie and Distinguished Research Professor, Program in Neuroscience, Florida State University, Tallahassee, Florida

Karen J. Berkley, PhD is McKenzie Professor and Distinguished Professor of Neuroscience at Florida State University in Tallahassee, FL USA. She graduated from Brown University in 1963 (Biology), and received her Ph.D. from University of Washington, Dept. of Physiology & Biophysics and Psychology in 1968. She has been at FSU since then where her basic and translational research program uses a combination of behavioral, neurophysiological, physiological, pharmacological, neuroanatomical, and brain imaging methods to address the general issue of neural mechanisms of pelvic pain and pelvic function. Her current research uses a rodent model of endometriosis to investigate mechanisms of the pains of endometriosis and how it co-occurs with other clinical disorders (one of which is chronic fatigue syndrome). Her group's most recent discovery is that the ectopic endometrial growths harvested from both the rodent model and women develop their own sensory and autonomic nerve supply, the characteristics of which may correlate with symptoms. She is also known for her published reviews and lectures on sex differences in pain. She has served on the editorial boards of numerous scientific journals (currently: *Pain, The Journal of Pain, and Somatosensory & Motor Research*), was a councilor for both the Society for Neuroscience and the International Association for the Study of Pain, served on three

committees of the National Academy of Sciences, and is a frequent speaker at national and international scientific conferences.

Paul R. Cheney, M.D., Ph.D.

Medical Director, The Cheney Clinic, Asheville, NC

For over twenty years, Dr. Cheney has been an internationally recognized authority on the subject of CFS and was a founding Director of the American Association of Chronic Fatigue Syndrome (AACFS). Dr. Cheney holds a Ph.D. in Physics from Duke University in Durham, NC and is a graduate of Emory University School of Medicine in Atlanta, GA where he also completed his internal medical residency. He is a board certified internist and since 1990, Dr. Cheney has headed the Cheney Clinics, presently located in Asheville, NC. Dr. Cheney has been interested in many aspects of CFS and has authored or co-authored publications and scientific presentations in many fields relevant to CFS. Most recently, following a successful heart transplant in 2003, Dr. Cheney has been engaged in investigating the cardiac function of CFS patients, using Impedance Cardiography and Doppler Echocardiography.

John K. Chia, M.D.

Assistant Clinical Professor, UCLA School of Medicine President, EV Med Research

Dr. Chia received his medical degree in 1979 from the University of California, Los Angeles. He completed both his Internship and Residency at Cedars-Sinai Medical in Los Angeles and a Fellowship at the Naval Hospital in Bethesda, Maryland, Infection Disease Division. In 2004-2005 Consumer's Research Council of America listed Dr. Chia as one of America's Top Physicians. Dr. Chia currently holds an academic appointment as Clinical Assistant Professor in the Department of Medicine at UCLA and is President of the California based EV Med Research Company.

Margaret Ciccolella, J.D., Ed.D.

Professor, Department of Sport Sciences, University of the Pacific

Margaret Ciccolella received her doctorate with an emphasis in exercise physiology and health sciences from Brigham Young University in 1978. In 1993, she completed a JD and was admitted to the California Bar Association. Currently, Dr. Ciccolella is a Professor of Sport Sciences at the University of the Pacific teaching primarily in the sports medicine track with additional assignments in sports law and higher education law. Her interest in chronic fatigue research specifically focuses upon the issue of what constitutes an "abnormal stress test" from both legal and physiological perspectives.

Daniel J. Clauw, M.D.

Assistant Dean for Clinical & Translational Research, Professor of Internal Medicine, Division of Rheumatology, Director, Chronic Pain & Fatigue Research Center, University of Michigan, Ann Arbor, MI

Dr. Clauw is Assistant Dean for Clinical and Translation Research and Professor of Medicine at the University of Michigan. Additionally, he directs the Chronic Pain and Fatigue Research Center and the Center for the Advancement of Clinical Research. His primary research interest is on overlapping chronic pain and fatigue syndromes such as fibromyalgia, CFS and Gulf War Illness and the role of central nervous system dysfunction in the development of these syndromes. He leads a multidisciplinary team of collaborators committed to identifying chronic pain syndrome risk factors and the establishment of programs aimed at the most effective treatment and prevention of this spectrum of illnesses.

Kenny De Meirleir, M.D., Ph.D.

Professor of Physiology, Pathophysiology and Medicine, Vrije Universiteit, Brussels, Belgium
Kenny L. De Meirleir, MD received his medical degree at Vrije Universiteit Brussel, Magna cum laude. He is a Professor of Physiology and exercise physiology and Professor of Medicine at the University of Brussels. His research activities in Chronic Fatigue date back to 1990. His other research activities in exercise physiology, metabolism and endocrinology have led to the Solvay Prize and the NATO research award. He is director of the Human Performance Laboratory and Fatigue Clinic at the Vrije Universiteit Brussel, as well as consultant in the Division of Cardiology and director of the cardiac rehabilitation program at Vrije Universiteit Brussel.

Birgitta Evengard, M.D., Ph.D.

Board Member, Chairman Conference Planning Committee, IACFS
Associate Professor, Department Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden
Dr. Evengard is a licensed physician since 1981, trained at Karolinska Institutet, Stockholm, Sweden. She is a specialist in infectious diseases and clinical immunology. Her thesis in 1989 was on immunological aspects on schistosomiasis, an infection in the tropical medicine area. For 10 years she has made clinical observations in the area of fatigue in the context of microorganisms. She holds a senior doctor position at Huddinge University hospital and is associate professor and lecturer at Karolinska Institute.

Patricia A. Fennell, MSW, LCSW-R

IACFS Board Member
President / CEO, Albany Health Management Associates
Ms. Fennell is a researcher and clinician specializing in chronic illness and trauma. She is CEO of Albany Health Management, Inc. an organization which treats and examines emerging global health care concerns through clinical care, consulting, professional education, doctoral training for the State Univ. of New York, and collaborative research with the international scientific community using Ms. Fennell's research-validated "Four-Phase Model". Described as the Kubler-Ross of chronic illness, she is a frequently invited lecturer and keynote speaker throughout the U.S., Canada, and Europe Recent scholarly and trade publications include: *Managing Chronic Illness: The Four*

Phase Treatment Approach (Wiley and Sons) and *The Chronic Illness Workbook* (New Harbinger).

Patricia D. Fero, MEPD

Executive Director, Wisconsin CFS Association
With a Master's degree in Education, and 10 years teaching experience in an at risk program for high school students, I left teaching in 1989 because I was too ill to continue. In addition, my son, now deceased from viral myocarditis, was, at an early age showing CFS symptoms. She has a longstanding interest and experience in all aspects of CFS from talking with thousands of patients to dealing with pediatric issues to trying to understand complex CFS funding research problems.

Mary Ann Fletcher, Ph.D.

Professor of Medicine, University of Miami Miller School of Medicine
Dr. Fletcher trained at the University of Texas and Baylor University. She did postdoctoral training at Northwestern University. Currently, she is Professor of Medicine, Microbiology/Immunology, and Psychology at the Miller School of Medicine, University of Miami, Miami, FL. Dr. Fletcher is director of the EM Papper Clinical Immunology Laboratory. Her current research interests include the immunopathogenesis of HIV/AIDS, chronic fatigue syndrome (CFS), Gulf War illness (GWI), and the psychoneuroimmunology of breast cancer.

Fred Friedberg, Ph.D.

IACFS Board Member
Assistant Professor, Stony Brook University, Stony Brook, NY
Fred Friedberg, PhD is a psychologist and an assistant professor in the psychiatry department at Stony Brook University in Stony Brook, NY. He currently holds an NIH career development award to transition from a private practitioner of 20 years to a chronic fatigue researcher. Dr. Friedberg has authored six books and a number of peer review articles on CFS, fibromyalgia, and chemical sensitivity.

Ferran J. García-Fructuoso, M.D.

Chief of Rheumatology, CIMA Clinic, Barcelona, Spain
Dr. Garcia-Fructuoso received his medical degree in 1988 graduating "Cum Laude" from Universidad Autonoma in Barcelona, Spain. He continued his medical career in the United States where he specialized in Internal Medicine, Immunology and Rheumatology. In 1994 Dr. Garcia-Fructuoso returned to Spain where he had developed his research and healthcare activity ever since. He is currently Chief of Rheumatology Department at the Clinica CIMA in Barcelona, Spain and he co-director of the International Course of Specialization in Fibromyalgia and CFS at the Universidad Internacional de Catalunya.

Ana Maria Garcia-Quaintana, M.D.

Dr. Garcia-Quaintana is an Internal Medicine physician who received her doctoral degree in Medicine in 1984. She is the coordinator of the CFS Unit in Central Medico

Delfos in Barcelona, and has worked with CFS patients for 10 years.

Ronald Glaser, Ph.D.

Director, Institute for Behavioral Medicine & Professor, Molecular Virology, Immunology & Medical Genetics, Ohio State University, Medical Center

Dr. Glaser has studied the role of human oncogenic herpesviruses and cancer for several years focusing primarily on Epstein-Barr virus (EBV) latency and the replication of EBV in epithelial cells in order to help understand the role that EBV plays in the etiology of nasopharyngeal carcinoma. He is past Chair of the Department of Medical Microbiology and Immunology, past Associate Dean for Research and Graduate Education in the College of Medicine and is past Associate Vice President for Research at the Ohio State University. Since the early 1980s, he has devoting much of his effort to the field of psychoneuroimmunology (PNI) studying the interactions between the central nervous system, the immune system and the endocrine system, how stress modulates these systems and the health implications for these interactions. His work has focused on stress and herpesvirus latency, vaccine responses, wound healing and the role that stress may play as a co-factor in the etiology and progression of malignant disease.

Brian Gurbaxani, Ph.D.

Senior Service Fellow, Centers for Disease Control and Prevention, Viral Exanthems and Herpes Virus Branch, Atlanta, GA,

Dr. Gurbaxani is active in writing data mining algorithms for large datasets related to chronic fatigue syndrome (CFS), human papilloma virus (HPV), and cervical cancer. He received a PhD from UCLA in molecular biology with an emphasis in bioinformatics and computational biology. He has worked as a systems engineer for Hughes Space and Communications Company, writing satellite mission control algorithms and large scale simulations of space systems and automotive electronics. He is interested in datamining, visualization, and mathematical modeling techniques for high dimensional biological datasets created using various "omics" technologies and/or for large population studies.

Alan R. Gurwitt, M.D.

Former Associate Clinical Professor, Yale Child Study Center & University of Conn. School of Medicine

Former Lecturer, Harvard Medical (Cambridge Hospital)

Dr. Gurwitt graduated from the Yale School of Medicine in 1956. He completed his Internship at Maimonides Hospital, and residency in adult and child psychiatry at the Yale Dept. of Psychiatry and Yale Child Study Center (1957-1961). Dr. Gurwitt was a member of the United States Army Medical Corps from 1961-1963. He has served as Medical Director of the Clifford Beers Guidance Clinic 1963-1970, Consultant to High Meadows and Riverview Hospital (CT) 1970-1980 held academic appointments as Clinical faculty of Yale Child Study Center and Yale New Haven Dept. of Pediatrics, served as

clinical faculty in the Division of Child Psychiatry University of Connecticut, and lecturer at Harvard Medical School. He is a Board Member of the Mass. CFS Association and Co-editor of two books on fatherhood.

Eleanor Z. Hanna, Ph.D.

Associate Director for Special Projects and Centers, Office of Research on Women's Health, Office of the Director, National Institutes of Health
Chair, NIH Working Group on Chronic Fatigue Syndrome, Office of the Director, NIH
Advisory Committee, Women's Health Agenda for the 21st Century, American Psychological Association
Dr. Hanna received her Ph.D. in Psychology from the Graduate School of Arts and Sciences at Boston University in 1971 and did post-graduate training as a Clinical and Research Fellow at the Massachusetts General Hospital and Harvard Medical School. In addition to her clinical, research, and teaching responsibilities Dr. Hanna also taught courses in Child Development, Social Psychology and the Psychology of Women at Northeastern University. She has served on a number of public advisory boards and as a research consultant to the National Institute of Alcohol Abuse and Alcoholism. Prior to joining the ORWH Dr. Hanna served as a Scientific Advisor to the Director of Biometry and Epidemiology at the NIAAA where she was responsible for the Institute's efforts in a collaborative clinical trial. The Prevention and Treatment of Hypertension Study. She has served on the NIH Coordinating Committee for Research on Women's Health as well as its research subcommittee and as a reviewer for the NIH Research enhancement Awards Program.

Ulf Hannestad, M.Sc.

Senior Research Chemist / Faculty, Division of Clinical Chemistry, Linkoping University, Sweden
Mr. Hannestad received his Master of Science degree in Chemistry from Chalmers University of Technology, Goteborg, Sweden in 1971. He has previous experience as a Laboratory Engineer at the Clinical Chemistry Laboratory, Vastervik Hospital. Since 1974 he has been a Research Chemist and a member of the Faculty of Health Science Division of Clinical Chemistry, Linkoping University.

Marcia L. Harmon

Director of Communications, CFIDS Association of America

Marcia Harmon is the Director of Communications for the CFIDS Association of America. She brings more than two decades of experience in communications, public relations, publishing, fund-raising and media relations to her work with the CFIDS Association. She has extensive expertise working with non-profits and developing strategic and tactical marketing and communications plans. In addition to overseeing the publications program, Marcia is responsible for all PR, media relations and communications functions of the organization.

Richard K. Herrell, Ph.D.

Post Doctoral Fellow, NIMH, National Institutes of Health, Section on Developmental Genetic Epidemiology, Washington, D.C.

Dr. Herrell received his doctoral training in epidemiology from the School of Public Health at the University of Illinois at Chicago. His research there addressed sexual orientation and suicidality; and chronic fatigue syndrome and acculturation in minority populations. Previously he studied anthropology at the University of Chicago and conducted field research in India. At present he works in the Section on Developmental Psychology at the National Institute of Mental Health. Current research projects include the sequela of psychiatric disorders including death and incident substance abuse; population estimates of incident psychiatric disorders; migraine and psychiatric disorders; and individual, familial, and cultural risk factors for sexually transmitted infections in youth.

Barry E. Hurwitz, Ph.D.

Associate Professor, Department of Psychology / Department of Biomedical Engineering, University of Miami

Dr. Hurwitz received a Masters Degree in Science from Ohio University in Experimental Psychology and in 1984 he received his Ph.D. from the University of Florida in Physiological Psychology. Dr. Hurwitz's research interests include investigation of the psychophysiological, neurobiological and behavioral processes that underlie preclinical alterations in cardiovascular and immunologic regulation in persons who are at risk for disease and disease progression in individuals with diagnosed disease. He currently holds an academic position of Associate Professor in the Departments of Psychology and Biomedical Engineering with the University of Miami.

Patricia Ireland

Patricia Ireland is a significant U.S. administrator and feminist. She served as president of the National Organization for Women, from 1991 to 2001 and published an autobiography, *What Women Want*, in 1996. She began her fight for women's rights in the 1960s when she discovered discrepancies in her insurance coverage. Her first victory came when the U.S. Department of Labor ruled in her favor, and she started her legal career doing volunteer work for the National Organization for Women. She has worked tirelessly for the causes of poor women, lesbian and gay rights, African women, electing women candidates, and training people to fight anti-abortion terrorists at clinics around the United States. Ireland played a significant role in the brief 2000 presidential bid of former Senator Carol Moseley Braun.

Andreas Jacks, M.D., Ph.D. student

Department of Laboratory, Medicine, Karolinska Institutet, Stockholm

Dr. Jacks received his medical degree at the Karolinska Institutet in 1996. He completed his internship in 1998 and is currently in the final phase of residency in Infectious Disease Medicine, with a special interest in clinical

parasitology and care for HIV-infected patients. During the past two years, Dr. Jacks has coordinated a case-control study on chronic fatigue syndrome within the Swedish Twin Registry. This work has brought him to a keen interest in the field of fatigue research with mainly epidemiological and clinical perspectives.

Leonard Jason, Ph.D.

Vice President, IACFS

Professor, Clinical and Community Psychology, DePaul University, Chicago, IL

Dr. Jason is a Professor of Clinical and Community Psychology at DePaul University in Chicago. He is the Director of the Center for Community Research at DePaul University. He has been conducting epidemiological research in the CFS area since 1991, and currently has been working on issues involving differential diagnosis, assessment, pediatric case definition, longitudinal follow-ups, and non-pharmacological treatment approaches.

Casimiro Javierre, M.D.

Lecturer / Professor, Department of Physiological Sciences, University of Barcelona

Dr. Javierre has worked in the field physiology of exercise during several years in High Performance Sports Center. Also, he collaborated with different professional sports teams. In the last ten years, he has been working at the University of Barcelona in the Medical School. Currently his research is focused on physical activity and illness, specifically in functional evaluation of patients with CFS.

James F. Jones, M.D.

Research Medical Officer, Chronic Viral Diseases Branch, Division of Viral and Rickettsial Diseases, Centers for Disease Control and Prevention, Atlanta, GA
Adjunct Professor of Psychiatry, Emory University School of Medicine

Yoshitaka Kajimoto, M.D.

Affiliate Professor of Medicine, Wakayama Medical University

President & CEO, Soiken, Inc.

Dr. Kajimoto received his doctorate in medicine in 1985 from Osaka University School of Medicine, Osaka, Japan. Dr. Kajimoto was a post-doctoral Research Fellow, with the Metabolism Division, in the Department of Internal Medicine, Washington University School of Medicine and the Department of Internal Medicine Osaka University. He previously served as Assistant Professor in the Department of Internal Medicine and Therapeutics at the Osaka University Graduate School of Medicine. In 1996 Dr. Kajimoto won the Novo Nordisk Growth Award, the Japan Endocrine Society Investigator's Award and the Japan Diabetes Society Lilly Award. He is currently President and CEO of Soiken, Inc and holds an academic position as Affiliate Professor of Medicine, Wakayama Medical University.

Han K. Kang, Dr. P.H.

Director, Environmental Epidemiology Service, Veterans Health Administration

Director, War-Related Illness and Injury Study Center, Washington DC VA Medical Center

Dr. Kang serves as Director of the Environmental Epidemiology Service (EES) of the Veterans Health Administration; and Director of the War-Related Illness and Injury Study Center at the Washington DC VA Medical Center (WRIISC-DC). During his 23-year career with VA, Dr. Kang has studied the effects of occupational exposure to ionizing radiation from atmospheric nuclear weapons testing in the 50s, and 60s, mustard gas in World War II, Agent Orange and other herbicides in the Vietnam War, and natural and man-made environmental hazards in the 1991 Persian Gulf War and recent conflicts in Iraq and Afghanistan. His research has provided the scientific basis for VA policy and legislative initiatives designed to provide care and compensation for veterans afflicted by war-related illnesses. Dr. Kang received a doctorate in public health from UCLA in 1976, and maintains academic affiliations with the George Washington University and the Uniformed Services University of the Health Sciences as Adjunct Associate Professor of Epidemiology and Adjunct Associate Professor of Preventive Medicine/Biometrics. He is a fellow of the American College of Epidemiology.

Kenji Kato, Ph.D.

PhD Student, Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden
Dr. Kato received a Ph.D. in health science from Osaka University in Japan, and is currently working towards another Ph.D. at the Karolinska Institute in Sweden. He started working with Swedish twin studies in 2002, primarily focusing on the genetic and environmental mechanisms of chronic widespread pain, chronic fatigue, and other comorbidities. As a registered nurse and public health nurse in Japan, he is particularly interested in the application of twin approaches to prevention and intervention for community health promotion.

Jonathan R Kerr, B.Sc., MBBCh, M.D., Ph.D.,

Senior Lecturer in Inflammation, Sir Joseph Hotung Clinical

Hon. Consultant in Microbiology, St George's University of London

Jonathan Kerr was born in Ireland in 1963, qualified in medicine from Queen's University of Belfast (1987), and completed training as a medical microbiologist (1995). He has worked as a microbiologist in Belfast, Manchester and London, taking up post as a Consultant Senior Lecturer in Microbiology at Royal Brompton Hospital / Imperial College in June 2001, and then Sir Joseph Hotung Clinical Senior Lecturer in Inflammation at St. George's University of London in 2005. His interest in Chronic Fatigue Syndrome (CFS) began during a study of parvovirus B19 infection, when he showed that a percentage of infected cases developed CFS which persisted for several years. He is now the principal investigator in a programme of research in CFS. This

involves development of a diagnostic test using mass spectrometry, analysis of human and viral gene expression. He is funded by the CFS Research Foundation and leads a research group at St. George's.

Nancy Klimas, M.D.

President, IACFS

Professor of Medicine, Psychology, Microbiology & Immunology, University of Miami School of Medicine and the Miami VA Medical Center

Dr. Klimas directs the UM/VAMC Gulf War and Chronic Fatigue Syndrome Research Center, initiated with an NIH Center Award, and supported by VA and NIH funds. The Center has focused on better understanding of the neuro-immune-endocrine interactions in CFS and GWI, and their role in the pathogenesis of these complex disorders. More recently the Center has developed a genomics project comparing gene expression before and after an exercise challenge in GWI and CFS. She is working with the CFIDS Association of America and the Centers of Disease Control to develop core curriculum in the training of health care professionals. She is leading an international collaborative group of clinicians, linked with a common web-based set of clinical assessment tools, to begin a natural history study of CFS. She continues to work nationally and internationally to bring a better understanding of CFS and GWI to clinicians and policy makers.

Anthony L. Komaroff, M.D.

Professor of Medicine, Harvard Medical School

Dr. Komaroff is Professor of Medicine at Harvard Medical School, Senior Physician at Brigham and Women's Hospital in Boston, and is Editor-in-Chief of *Harvard Health Publications*. He was the Chief of General Medicine at Brigham & Women's Hospital for 15 years, and also served as the Hospital's VP for Information Systems. Dr. Komaroff has an ongoing research program on chronic fatigue syndrome, and has published over 230 research articles and book chapters. He has served as a member of the Chronic Fatigue Syndrome Coordinating Committee and the Chronic Fatigue Syndrome Advisory Council of the United States Department of Health and Human Services, the Review Committee on Chronic Fatigue Syndrome Research for the U.S. Centers for Disease Control and Prevention, and an Advisory Committee on Adverse Health Outcomes of the Gulf War for the U.S. Institute of Medicine/ National Academy of Sciences. In recognition of his work, Dr. Komaroff has been elected to fellowship in the American College of Physicians and the American Association for the Advancement of Science.

Hirohiko Kuratsune, M.D., D. Med. Sci

Professor, Faculty of Health Science for Welfare, Kansai University of Welfare Sciences

Visiting Professor, Clinical Center for Fatigue Science, Osaka City University Medical School

Dr. Kuratsune is the Director of the Japanese Society of Fatigue, and Chairman of the Japanese committee for

revising diagnostic criteria of Chronic Fatigue Syndrome. He is a visiting Professor of the Clinical Center for fatigue Science, Osaka City University Medical School, and sees patients with chronic fatigue.

Gudrun Lange, Ph.D.

Director, War Related Illness and Injury Study Center, Department of Veterans Affairs-NJ HealthCare System Professor, Radiology and Psychiatry, UMDNJ-NJMS Clinical Neuropsychologist

Dr. Lange is a licensed Clinical Neuropsychologist and a Professor of Radiology and Psychiatry at UMDNJ-New Jersey Medical School. In addition to her private practice, her main research interests over the past 10 years include the assessment and study of the cognitive and behavioral aspects of chronic pain and persistent fatigue. Dr. Lange has received NIH funding for her neuroimaging work in Chronic Fatigue Syndrome and is currently implementing an NIH funded clinical trial to assess it is safe to use Vagus Nerve Stimulation for the treatment of Fibromyalgia pain. Dr. Lange is also the Director of the War Related Illness and Injury Study Center (WRIISC). She brings to the WRIISC both her clinical as well as research knowledge to help veterans understand their deployment related health concerns. She has published many papers on the subject of fatigue and pain in both civilian as well as military populations and has given many presentations to professional as well as public groups.

Charles Lapp, M.D.

IACFS Board Member

Private Practice Clinician, Raleigh, NC Clinical Professor, Duke University

Dr. Lapp received his medical degree from the Albany Medical College, and took his residency program at the University of North Carolina in Chapel Hill. He has practiced internal medicine and pediatrics in North Carolina since 1978, and began researching CFS and FM in 1985 following an epidemic in Raleigh. In 1995 Dr. Lapp opened a consultation practice in Charlotte, NC, specializing in CFS, Fibromyalgia, and related disorders. He has written numerous articles and has spoken widely about Chronic Fatigue Syndrome and Fibromyalgia. He is active in both civic and professional activities. He is a diplomate of the American Board of Internal Medicine, and a Fellow of the American Academy of Family Practice, the American Academy of Pediatrics, and the American Board of Independent Medical Examiners. Dr. Lapp is a consultant to the Center for Disease Control and a co-author of the CFS Provider Education Course. He was tapped by Secretary Tommy Thompson of the Department of Health & Human Services to advise the federal government on CFS-related issues. He is a medical advisor to the CFIDS Association of America, a member of the Scientific Advisory Council, and a board member of the International Association for CFS and FM (IACFS).

A. Martin Lerner, M.D.

Attending Physician, Division of Infectious Diseases, William Beaumont Hospital, Royal Oak, MI

Clinical Professor of Medicine, Former Director, Division of Infectious Diseases, Chief, Department of Medicine, Hutzel Hospital, Wayne State University, School of Medicine, Detroit, MI

Dr. Lerner is certified by the American Board of Internal Medicine. A graduate of Washington University School of Medicine in St. Louis, Missouri, Dr. Lerner completed a one-year internship at Barnes Hospital in St. Louis. After serving two years as a laboratory investigator at the National Institutes of Health in Bethesda, Maryland, Dr. Lerner completed a residency in internal medicine at Harvard Medical Services at the Boston City Hospital and at Barnes Hospital in St. Louis. Dr. Lerner was chief of the Division of Infectious Diseases and a professor of internal medicine at Wayne State University School of Medicine from 1963-1982. Currently, Dr. Lerner is in private practice and is on staff at William Beaumont Hospital in Royal Oak, Mich. Dr. Lerner received the 1994 Alumni Achievement Award from Washington University School of Medicine, St. Louis, Mo.

Susan Levine, M.D.

Board Certified Infectious Disease Specialist, Chronic Fatigue Syndrome and Fibromyalgia. New York, NY
Dr. Levine has been researching and treating CFS patients since 1986. Her early CFS research focused on low natural killer cell activity, disturbances in autonomic nervous system function, the potential role of retroviruses, and cortisol levels and other endocrine aspects of CFS. She received her medical degree from Albert Einstein College of Medicine and is board certified in internal medicine, allergy and immunology, and infectious diseases. She has participated on the Physicians' Surveillance Committee for CFS of the U.S. Centers for Disease Control and currently serves on the Name Change Committee reporting to the Surgeon General. Dr. Levine was a contributing author to the *New Jersey Physician's Manual* sponsored by the New Jersey Department of Health detailing an approach to Chronic Fatigue Syndrome patients. She also has clinical and research interests in the association of hormone dysregulation, in particular Growth Hormone, and pro-inflammatory cytokines in the immune system.

Eiríkur Lindal, Ph.D.

Clinical Psychologist, Associate Professor, University Hospital, Reykjavik, Iceland

Dr. Lindal is a Clinical Psychologist and Associate Professor at University Hospital in Reykjavik, Iceland. He received his Ph.D. in Sweden, and has worked at the University hospital for over 20 years. Along with clinical work he has conducted research and published articles in the fields of CFS, psychiatric epidemiology, pain and PTSD.

Elizabeth M. Maloney, Dr. PH, M.S.

Epidemiologist, Viral Exanthems and Herpesvirus Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA

Dr. Maloney is an Epidemiologist who joined Dr. Reeves' branch at CDC almost 3 years ago, after many years at the National Cancer Institute at NIH. She has an undergraduate degree in Psychology, a Masters Degree in Biostatistics and a Doctoral Degree in Epidemiology. Chronic fatigue syndrome (CFS) is a new area for her. Her prior work was in the field of viral epidemiology, studying the human T-cell lymphotropic virus (HTLV-I) and the neurologic and oncologic diseases associated with it. Her work pertained to measuring the prevalence and incidence of HTLV-I and associated diseases, the examination of risk factors for HTLV-I infection, transmission and disease; the natural history of HTLV-I viral markers in children; and the examination of immune-mediated pathways of disease. Dr. Maloney's current interest is the role of allostatic load in CFS, and its relationship to the natural history of CFS illness.

K. Kimberly McCleary

President & Chief Executive Officer, CFIDS Association of America

Since 1991, Kim McCleary has led the CFIDS Association of America's education, public policy and research programs which seek to bring an end to CFIDS and the suffering it causes. She played a key role in bringing to light the misuse of \$13 million in CFS research funds by the Centers for Disease Control and in building Congressional support for the restoration of those funds to the CFS research program. She also worked closely with the Social Security Administration to develop a policy ruling identifying CFS as a potentially disabling condition, making it easier for disabled CFS patients to gain access to federal disability benefits. She served on the Department of Health and Human Services CFS Coordinating Committee from 1996 until 2001, has testified before Congress numerous times and was selected by Redbook Magazine as one of their "Mothers and Shakers" promoting progress in health.

Lee Meisel, M.D., J.D., MPH

IACFS Board Member

President, Windsor Bay Capital, Managing Member, Orion Capital Group

Director, Targa Therapeutics Corporation, Scientific Advisory Board, Epiphany Biosciences, Consultant, HHV-6 Foundation, (an organization for which he was one of the founding directors)

Dr. Meisel previously was Vice President, Operations and director of CPS Chemical Corporation. While at CPS Chemical, he was a member of the executive management team that sold the company to Allied Colloids in the United Kingdom. At CPS, he was co-inventor of several patented chemical processes that covered numerous patented new compositions of matter. Dr. Meisel has worked as a corporate and securities attorney for the biotechnology industry at Brobeck, Phleger and Harrison in Palo Alto, California and as Chief of the Department of Anesthesia for Kaiser Permanente Medical Center in San Francisco. He received his law degree from Stanford Law School and completed his medical training as a fellow in

critical care medicine and a resident in anesthesiology at Harvard Medical School. His Masters of Public Health degree is from the Harvard School of Public Health.

Barbara Melamed, Ph.D., ABPP

Professor & Program Director, M.S. Psychology Degree Program, Mercy College, New York

Dr. Melamed is Professor and Program Director of the M.S. psychology degree program at Mercy College, New York, in the Division of Social and Behavioral Sciences. She was Dean of the Graduate School of Psychology at Yeshiva University and held appointments at the Albert Einstein College of Medicine in psychiatry and social medicine and epidemiology. Her research has focused on stress under situations that are often traumatic and involve the entire family system. She was the founding director of the Behavioral Medicine Clinic at the University of Florida and at Yeshiva University. Melamed's research contributions in the area of war trauma include the Bosnian-Croatian War, the assassination of Premier Rabin and the terrorist bus bombings in Israel, and the psychological consequences of the World Trade Center attack. She holds degrees from the University of Michigan (B.S. in psychology) and University of Wisconsin (M.S. in psychology and Ph.D. in clinical psychology, social and personality development, and psychophysiology).

Teruhisa Miike, M.D., Ph.D.

Professor of Child Development, Faculty of Medical and Pharmaceutical Sciences, Kumamoto University Graduate School, Kumamoto, Japan

Chairperson of the Board of Trustees, Japanese Society of Child Neurology

Dr. Miike has held several academic appointments most recently he is Professor in the Department of Child Development, Medical and Pharmaceutical Sciences Kumamoto University Graduate School. His research has focused on solving patho-mechanism of muscle degradation in Duchenne muscular dystrophy since 1970 to present. Since 1985, he also started try to reveal backgrounds of pseudoseizure using 24hrs EEG recording. He has developed an interest in psychosomatic disorders and school phobia in Japan. He reports that he has an indication that CFS is dysfunction of central nervous system, especially limbic system and has focused current research around that premise.

Jose G. Montoya, M.D.

Associate Professor of Medicine, Department of Medicine and Division of Infectious Diseases and Geographic Medicine, Stanford University School of Medicine
Associate Staff Scientist, Department of Immunology and Infectious Disease, Palo Alto Medical Foundation Research Institute, Palo Alto, CA

Dr. Montoya is originally from Cali, Colombia and completed his medical degree with honors at the Universidad del Valle. He trained in Internal Medicine at Tulane University in New Orleans. Following his residency, he completed his fellowship in Infectious Diseases at Stanford University in Palo Alto under the

mentorship of Dr. Jack S. Remington. He is currently Associate Professor of Medicine and Associate Chief for Clinical Affairs for the Division of Infectious Diseases and Geographic Medicine at Stanford University School of Medicine. He is also the co-director of the Palo Alto Medical Foundation Research Institute Toxoplasmosis Serology laboratory in Palo Alto and the director of the Immunocompromised Host service at Stanford University Medical Center that sees all infectious complications in immunosuppressed patients. He has authored and co-authored over 40 publications in peer-reviewed journals along with more than 10 book chapters and has given over 90 presentations as an invited speaker. He has received more than 10 school-wide teaching awards. His current research interests focus on diagnosis and management of toxoplasmosis during pregnancy and in the setting of eye disease as well as on infectious complications of immunocompromised patients including patients with fever and neutropenia and those with solid organ transplants.

Modra Murovska, M.D., Ph.D.

Head of the Department of Oncovirology, August Kirchenstein Institute of Microbiology and Virology, Riga Stradins University

Dr. Murovska was born in Saldus, Latvia, studied at the Riga Medical Institute Faculty of Pediatrics and received a Medical Degree in 1972. Since 1972 has worked at the August Kirchenstein Institute of Microbiology and Virology as a senior laboratory assistant, a junior researcher, and a senior researcher, and was appointed head of the Department of Oncovirology in 1986. Earned Ph.D. in 1978 at the Cancer Research Center of the USSR Academy of Medical Sciences. Author and co-author more than 200 scientific publications and is a member of national and international professional organizations.

Paul Nestadt

Research Coordinator, Mount Sinai School of Medicine, New York, NY

Paul Nestadt, B.S., is currently coordinating research into the physiology of Chronic Fatigue Syndrome (CFS), as well as investigating the use of intranasal ketamine for use on treatment resistant depression. He holds Bachelor of Science degrees in Neuroscience and Biology from Brandeis University, where he worked with Dr. Eve Marder studying the stomatogastric ganglion of the *Panulirus* lobster. Before coming to Sinai, Mr. Nestadt was working with Dr. Donald Katz to investigate the mechanisms of conditioned taste aversion in mammals. Mr. Nestadt is presently interested in human cognitive neurobiology.

Garth L. Nicolson, Ph.D.

President, Chief Scientific Officer and Research Professor, The Institute for Molecular Medicine, Huntington Beach, CA

Professor Nicolson received his Ph.D. in Biochemistry and Cell Biology from the University of California at San Diego in 1970. He is currently Professor of Integrative

Medicine at Capitol University of Integrative Medicine and a Conjoint Professor at the University of Newcastle (Australia). He was formally the David Bruton Jr. Chair in Cancer Research and Professor and Chairman of the Department of Tumor Biology at the University of Texas M. D. Anderson Cancer Center in Houston, and he was Professor of Internal Medicine and Professor of Pathology and Laboratory Medicine at the University of Texas Medical School at Houston. Professor Nicolson has published over 570 medical and scientific papers (including 3 *Current Contents* Citation Classics), edited 14 books and served on the Editorial Boards of 20 medical and scientific journals. Professor Nicolson has won many awards, such as the Burroughs Wellcome Medal of the Royal Society of Medicine (United Kingdom), Stephen Paget Award of the Metastasis Research Society, the U. S. National Cancer Institute Outstanding Investigator Award, and the Innovative Medicine Award of Canada.

Nicole S. Porter, Ph.D.

Project Director, Center for Community Research, DePaul University, Chicago, IL

Dr. Porter received her doctorate in 2005 from DePaul University in Chicago, IL. She currently serves as Associate Researcher, Institute for Mind and Biology at the University of Chicago and is the Project Director for the Center for Community Research, DePaul, University. Her research interests involve developmental precursors of physiological activity and object manipulation. Of particular interest are the implications of all levels of experience, as reciprocally linked to physiological maturation and hemispheric specialization. She also works with behavioral and social influences on reproductive neuroendocrinology, neurophilosophy and corresponding theories of mind focusing on the relation between mental states and neurological states.

Vivian Pinn, M.D.

Associate Director for Research on Women's Health / Director, Office of Research on Women's Health, National Institutes of Health, (NIH)

Dr. Vivian W. Pinn is the first full-time director of the Office of Research on Women's Health (ORWH) at the National Institutes of Health (NIH), an appointment she has held since November 1991. In February 1994, she was also named as Associate Director for Research on Women's Health, NIH. Dr. Pinn came to NIH from Howard University College of Medicine in Washington, D.C., where she had been Professor and Chair of the Department of Pathology since 1982, and has previously held appointments at Tufts University and Harvard Medical School.

William C. Reeves, M.D., M.Sc.

Chief Viral Exanthems and Herpesvirus Branch, Centers for Disease Control and Prevention

Dr. Reeves received his doctorate in medicine in 1969 from the University of California San Francisco. His experience since then is extensive! He has previous academic appointments on the faculties of Emory

University School of Medicine and the University of Washington at Seattle, served as Director and Chief of the Department of Virology/Epidemiology at Gorgas Memorial Laboratory. He is currently the Chief of the Viral Exanthems and Herpesvirus Branch with the Centers for Disease Control in Atlanta, GA and is the principal investigator for the CDD Prevention CFS research program.

Kazuhito Rokutan, M.D., Ph.D.

Professor & Director, Department of Stress Science, Institute of Health Biosciences, The University of Tokushima Graduate School, Tokushima, Japan
Dr. Rokutan received his doctorate in medicine in 1979 from the Kyoto Prefectural University of Medicine; he subsequently received a second doctorate (Ph.D.) in Medicine in 1988 also from Kyoto Prefectural University of Medicine. Dr. Rokutan has research backgrounds in molecular stress response and oxygen radical biology. Most recently, he has developed an original microarray specifically designed to assess stress response in peripheral blood cells. He is now developing new biometal tools useful for mental health care which he believes will provide a unique approach and will open a new field of stress research in medical sciences. Dr. Rokutan is currently Professor and Director in the department of Stress Science, Institute of Health Biosciences, University of Tokushima Graduate School in Tokushima, Japan.

Katherine Rowe, MB.BS, M.D. Melb, MPH Grad Dip Int Health Monash, DipEd London, FRACP

Senior Consultant Physician, Department of General Paediatrics, Royal Children's Hospital (RCH), Melbourne Academic Fellow / Senior Lecturer, Department of Paediatrics, The University of Melbourne, and Murdoch Children's Research Institute

Dr. Rowe is a Senior Consultant Physician in the Department of General Paediatrics, and in the Centre for Adolescent Health, at the Royal Children's Hospital, Melbourne. In addition to her medical qualifications (MB.BS, MD), she has a Masters degree in Public Health (MPH), a Graduate Diploma in International Health, a post-graduate Diploma in *Child Development and Health and Welfare Education* (DipEd) from the University of London, Institute of Education. For her doctoral research (MD), she examined children's behavioral reactions to the ingestion of synthetic food colourings. Dr Rowe has extensive clinical and research experience in the management of children and adolescents with behavioral and learning difficulties (ADD; AD/HD), as well as those with *Chronic Fatigue Syndrome*

Akikazu Sakudo, Ph.D.

Research Associate, Department of Virology, Center for Infectious Disease Control, Research Institute for Microbial Diseases, Osaka University, Department of Physiology, Osaka City University Graduate School of Medicine, Osaka, Japan

Dr. Sakudo obtained a B.Sc. from Science University of Tokyo in 1999. His postgraduate studies were performed

at the School of Agricultural and Life Sciences, University of Tokyo. His Ph.D. thesis, entitled "Studies on the functions of cellular prion protein in copper homeostasis and antioxidative defense", was completed in March 2004 and he joined Osaka University in April 2004 as a Postdoctoral scientist and further became a Research Associate. In January 2004 he came into contact with visible and near-infrared spectroscopy and was completely fascinated by this powerful tool, this his recent interests have been focused on Vis-NIRS. He is currently working toward the development of diagnostic methods for infectious diseases and chronic diseases such as chronic fatigue syndrome using Vis-NIRS.

Joan L. Shaver, Ph.D., R.N., FAAN

Professor and Dean, University of Illinois at Chicago (UIC), College of Nursing

Joan Shaver has served on the National Advisory Council for the National Institute of Nursing Research at the National Institutes of Health and is currently on the Health Advisory Committee of the Alberta Heritage Foundation for Medical Research in Canada. Dr. Shaver is on the Board of Directors for Advocate HealthCare; one of the largest fully integrated *not-for-profit* health care delivery system in metropolitan Chicago and also is a member of the Governing Council for Advocate Illinois Masonic Medical Center. She is immediate past president of the American Academy of Nursing, an entity of the American Nurses Association composed of over 1500 peer-elected top nursing leaders in the U.S. Dr. Shaver holds a Ph.D. in Physiology and Biophysics from the School of Medicine and a masters degree from the School of Nursing (both from U. of Washington, Seattle). As a biobehaviorist, Dr. Shaver has conducted research in women's health for over two decades. Her interests are currently focused on stress and sleep-related issues within a set of conditions that disproportionately affect women, including fibromyalgia and chronic fatigue syndrome. She has published her scientific work in sleep, medical and nursing journals, including *Sleep, Journal of Rheumatology, Psychosomatic Medicine and Research in Nursing & Health*.

Marly C. Silverman

Founder, Patient Alliance for Neuroendocrineimmune Disorders Organization for Research and Advocacy (P.A.N.D.O.R.A.)

Marly founded P.A.N.D.O.R.A. with a mission to inspire others to join in efforts to make a difference in the lives of persons with Neuroendocrineimmune Disorders, CFS, Fibromyalgia, Gulf War Syndrome and multiple chemical sensitivities and other related illnesses. Marly is not only the founder, she is also a patient and as health permits has provided testimony to congressional committees, participated in national conferences and has continued to participate and organize advocacy efforts in Florida and beyond. She is responsible for the delivery of the public relations component for P.A.N.D.O.R.A. through networking with other organizations, local and national communities and through medical interviews and articles.

Christopher R. Snell, Ph.D.

Professor & Chair, Department of Sport Sciences, University of the Pacific, Stockton, CA
Christopher R. Snell, Ph.D., is a native of Nottingham England. His doctorate in exercise and movement science is from the University of Oregon, Eugene. Currently he teaches motor control and learning, exercise psychology, and health education. His research interests center on the functional aspects of Chronic Fatigue and Immune Dysfunction Syndrome (CFIDS), particularly as they relate to quality of life issues. Dr. Snell has both published and presented on this and other topics related to CFIDS. He is presently part of a research team which uses exercise testing to evaluate physiological and cognitive functioning in CFIDS patients with particular attention given to metabolic processes and immune function.

Vance A. Spence, Ph.D.

Senior Research Fellow, Institute of Cardiovascular Research, University of Dundee, Dundee, Scotland UK
Dr. Spence is Senior Research Fellow at the Institute of Cardiovascular Research, University of Dundee Medical School, Dundee, Scotland UK and is one of the principal investigators of ME/CFS research in the vascular diseases research unit looking at ME/CFS as a pro-inflammatory and pro-oxidant condition. Dr Spence is also the current chairman and co-founder of the UK charity, ME Research UK, whose principal aim is to commission and fund high-quality scientific (biomedical) research into the causes, consequences and treatment of ME/CFS

Eleanor Stein, M.D. FRCP(C)

Private Practice Psychiatrist, Calgary, Canada
Dr. Stein is a psychiatrist and psychotherapist who for the past 8 years has been intensively learning about both conventional and alternative approaches to the management of Chronic Fatigue Syndrome, Fibromyalgia and Multiple Chemical Sensitivity. She runs a small, part time private practice in Calgary offering medical diagnosis and treatment as well as individual and group psychotherapy for people with CFS/FM/MCS. She graduated from the University of Alberta medical school with first class honors in 1987 and completed her Psychiatric residency at the University of London Ontario in 1992. She then added a qualification as a child and adolescent psychiatrist with the research dissertation "The Mental Health of Children in Foster Care". She became ill during residency but it took several years for her to recognize that she had CFS. With diagnosis in hand, she traveled around Canada, the USA and Australia spending time with experts in the field and has integrated that information into her practice. Her clinical interest is working in the mind-body grey zone and combining medical and psychological approaches.

Seiki Tajima, M.D.

Lecturer, Kansai University of Welfare Sciences, Osaka, Japan
Dr. Tajima graduated from Saga University School of Medicine in 1998. He began his work as pediatrics resident

at Kumamoto University Hospital. Entered to Kumamoto University Graduate School of Medicine and studied fatigue science (positron emission tomography analysis, actigraphy analysis and autonomic nerve analysis of exhausted state) in 2000. At present, Dr. Tajima is working at the fatigue clinical center, Osaka City University Hospital as a fatigue medicine specialist and at Kansai University of Welfare Sciences as a Lecturer in charge of children's health care and health administration.

Fumiharu Togo, Ph.D.

Departments of Neurosciences, UMDNJ-New Jersey Medical School, Newark NJ

Susan Torres-Harding, Ph.D.

Assistant Professor, Roosevelt University, Chicago, IL
Dr. Susan Torres-Harding received her PhD from the clinical psychology doctoral program at DePaul University in 2001. She has conducted research in the field of chronic fatigue syndrome since 1996 as a member of the DePaul University chronic fatigue syndrome research team, headed by Dr. Leonard Jason. Her research has focused specifically on ethnic issues in chronic fatigue and evaluating the efficacy of cognitive behavior therapy treatments for CFS. She is currently an assistant professor of psychology at Roosevelt University, Chicago, IL.

Rosemary A. Underhill, M.B., B.S., FRCSE, MRCOG

Consultant & Trustee, New Jersey CFS Association
Dr. Underhill, is a physician consultant to the New Jersey Chronic Fatigue Syndrome Association and a trustee. Currently, Dr. Underhill is doing epidemiological research into Chronic Fatigue Syndrome (CFS) in CFS patients' families and previously presented some initial results of this research at the 7th international AACFS conference on Chronic Fatigue Syndrome, Fibromyalgia and related illnesses. Her research has been published in the Journal of Chronic Fatigue Syndrome. Dr. Underhill trained as a physician at the Royal Free Hospital, in London, England, and then gained qualifications in Surgery and in Obstetrics and Gynecology. She worked for the British National Health Service for twenty years, gaining experience in clinical work, research and teaching medical students and post-graduate doctors. She has published many articles on various aspects of Obstetrics and Gynecology and also on CFS, including pregnancy in CFS patients and gynecological problems in CFS patients and she was the lead author of the chapter on Women's Health for the New Jersey Physicians' manual on Chronic Fatigue Syndrome.

Rosamund Vallings, M.B. B.S.

Family Physician, Papakura, New Zealand
Visiting Lecturer, University of Auckland, New Zealand
Dr. Vallings has been in medical practice in Howick/Bucklands Beach for 40 years, having arrived in NZ from UK as a ship's doctor. He spent 25 years also working for Family Planning Association, and has retained an ongoing interest in Women's Health, covering aspects such as menopause, PMS, postnatal depression and contraception. Early in his career Dr. Vallings became

involved with research into Chronic Fatigue Syndrome, and over the years his practice has become more specialized in this area, which includes CFS, sleep disorders, fibromyalgia and other related conditions. Dr. Vallings is currently medical advisor to the NZ ME/CFS association, vice president of the NZ Society of Hypnosis and on the editorial board of the International Journal of CFS. he recently reviewed the overseas guidelines for diagnosis and management of CFS with a view to producing NZ guidelines.

Constance Van der Eb, Ph.D.

Faculty, Psychology Department, DePaul University, Chicago, IL

Dr. Van der Eb, a clinical psychologist, has worked with adolescents and adults with CFS for 14 years. She teaches a community-based service learning course "Coping with Invisible Illness: CFS, HIV/AIDS and Others" at DePaul University. As a CFS community member, she serves on an active board of directors for the CFS/FM/MCS Coalition of Chicago. When possible, she educates health care professional about CFS to advocate for early identification of youth with CFS and referral to medical resources.

Elke L.S. Van Hoof, Ph.D.

Professor, Medical & Health Psychology, Vrije Universiteit Brussell, Belgium

Dr. Van Hoof is a clinical psychologist specialized in stress-related disorders. Since 1999 she has counseled numerous patients suffering from chronic fatigue syndrome. Her work in chronic fatigue syndrome resulted in her Ph.D. dissertation in 2003. Currently she is assigned as professor in medical psychology and health psychology at the Vrije Universiteit Brussell, Belgium and at the University of Hasselt, Belgium.

Suzanne D. Vernon, Ph.D.

Research Biologist & Human Genomics Team Leader, Centers for Disease Control and Prevention, Atlanta, GA
For the past 6 years, Dr. Vernon has directed the Molecular Epidemiology Program in the Viral Exanthems and Herpesvirus Branch at the Centers for Disease Control and Prevention in Atlanta Georgia. Under Dr. Vernon's leadership, the Molecular Epidemiology Program objectives are to characterize chronic fatigue syndrome at a systems biology level by integrating genomics, proteomics, physiology and population-based epidemiology. To accomplish this, Dr. Vernon has been instrumental in building a multidisciplinary team of molecular biologists, biostatisticians, epidemiologists and clinicians. The Molecular Epidemiology Program has implemented an intramural effort in gene expression profiling and proteomics applied to population-based and model system studies and integrated these using powerful web-based bioinformatics. Dr. Vernon's ultimate goal for the Molecular Epidemiology program is biomarker discovery, development of a diagnostic assay, and understanding of the pathogenesis of CFS.

Yasuyoshi Watanabe, M.D., Ph.D.

Professor, Department of Physiology, Osaka City University Graduate School of Medicine
After graduating from the Kyoto University Faculty of Medicine in 1976, Dr. Watanabe went on to complete a course at the Graduate School of Medicine at the same institution (1980, Ph.D.). Since 1999, he has been engaged in the Japanese governmental research Special Coordination Fund for Promoting Science and Technology from the Ministry of Education, Culture, Sports, Science and Technology, as project leader on the subject of "Molecular/neural mechanisms of fatigue and fatigue sensation and development of the ways to overcome fatigue." As of last year, he has served as a "Center of Excellence" project leader for the Ministry's 21st Century COE Program innovative technology discipline known as "Base to Overcome Fatigue." He is also an executive member of the board of the Japanese Society of Fatigue Science. He has published over 300 articles and other publications, of which major works include "Fatigue and Science" (Kodansha Ltd.), "The Danger of Chronic Fatigue," etc.

Toni Whistler, Ph.D.

Senior Service Fellow, Chronic Viral Diseases Branch, Centers for Disease Control and Prevention, Atlanta, GA
Dr. Whistler received her PhD in Medical Virology from the University of Witwatersrand Medical School in South Africa in 1990, while working at the National Institute for Virology. She was awarded a National Research Council Post Doctoral Fellowship and came to the Centers for Disease Control and Prevention to further her career in virological research focusing on childhood vaccines. She has continued her career in several departments at the CDC and is currently in the Chronic Viral Disease Branch working on Chronic Fatigue Syndrome using genomic and proteomic tools to further our understanding of this complex illness.

Marshall V. Williams, Jr., Ph.D.

Professor, Ohio State University
Dr. Williams received his Ph.D. in 1976 from the University of Georgia. He was a Cancer Research Scientist (Post-doctoral Fellow, 1976-1978) in the laboratory of Yung-Chi Cheng in the Department of Experimental Therapeutics and Grace Cancer Drug Center, Roswell Park Memorial Institute. He was an Assistant Professor, from 1978 to 1982 in the Department of Microbiology and Immunology at Kirksville College of Osteopathic Medicine, Kirksville, MO. In 1982 he moved to Ohio State University and was promoted to Professor in 1992. His research interests include elucidating the role(s) of deoxyuridine triphosphate nucleotidohydrolase and uracil-DNA glycosylase in normal cellular metabolism and herpesvirus replication. The goal of this research is to use these enzymes as targets for the development of novel agents for use in cancer and viral chemotherapy.

Faculty Disclosure

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Lucinda Bateman, M.D.	Consultant, Hemispherx Biopharma Other Support, Pfizer, Forrest, Hemispherx Biopharma
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Daniel J. Clauw, M.D.	Grant / Research Support, Consultant, Cypress Biosciences
Kenny De Meirleir, M.D., Ph.D.	Speakers Bureau, Hemispherx Biopharma
Fred Friedberg, Ph.D.	Authored book on CFS and Fibromyalgia
Yoshitaka Kajimoto, M.D.	Grant / Research Support, Soiken, Inc & JT, Inc.
Gudrun Lange, Ph.D.	Other Support, Cyberonics, Inc.
Charles Lapp, M.D.	Grant, Research Support, Speakers Bureau, Pfizer & Cephalon
A. Martin Lerner, M.D.	Owner of U.S. Patents Concerning Diagnosis and Antiviral Treatment of CFS
Jose G. Montoya, M.D.	Grant / Research Support, Roche Pharmaceuticals
Marshall V. Williams, Jr., Ph.D.	Grant / Research Support, HHV-6 Foundation

The following faculty do not a financial interest or affiliation with the manufacturer(s) of any commercial product(s) to be discussed in this Continuing Medical Education

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Frederick Albright, M.S., Ph.D.	Casimiro Javierre, M.D.	Marly C. Silverman
J. Alegre-Martin, Ph.D.	James F. Jones, M.D.	Christopher R. Snell, Ph.D.
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James N. Baraniuk, M.D.	Kenji Kato, Ph.D.	Eleanor Stein, M.D. FRCP(C)
David Bell, M.D. FAAP	Jonathan R Kerr, B.Sc.,	Seiki Tajima, M.D.
Karen J. Berkley, Ph.D.	Nancy Klimas, M.D.	Umberto Tirelli, M.D.
Paul R. Cheney, M.D., Ph.D.	Anthony L. Komaroff, M.D.	Fumiharu Togo, Ph.D.
Margaret Ciccolella, J.D., Ed.D.	Hirohiko Kuratsune, M.D.	Susan Torres-Harding, Ph.D.
Birgitta Evengard, M.D, Ph.D.	Susan Levine, M.D.	Rosemary A. Underhill, M.B., B.S., FRCSE, MRCOG
Patricia Fennell, MSW, LCSW-R	Eirikur Lindal, Ph.D.	Rosamund Vallings, M.B. B.S.
Patricia D. Fero, MEPD	Elizabeth Maloney, Dr. PH, M.S.	Constance Van der Eb, Ph.D.
Mary Ann Fletcher, Ph.D.	K. Kimberly McCleary	Elke L.S. Van Hoof, Ph.D.
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Alan R. Gurwitt, M.D.	Modra Murovska, M.D., Ph.D.	
Eleanor Z. Hanna, Ph.D.	Paul Nestadt	
Ulf Hannestad, M.Sc.	Garth L. Nicolson, Ph.D.	
Marcia L. Harmon	Nicole S. Porter, Ph.D.	
Richard K. Herrell, Ph.D.	Vivian Pinn, M.D.	
Barry E. Hurwitz, Ph.D.	William C. Reeves, M.D., M.Sc.	
Patricia Ireland	Kazuhito Rokutan, M.D., Ph.D.	
Andreas Jacks, M.D., Ph.D. student	Katherine Rowe, MB.BS, M.D.	
	Akikazu Sakudo, Ph.D.	

Poster Presentations

Behavioral Section

Computer-Assisted Cognitive Function Assessment in Fibromyalgia, Chronic Fatigue Syndrome and Multiple Chemical Sensitivity Patients

Cusco-Segarra AM, Garcia-Fructuoso FJ, Lopez_Crespi F, Poca-Dias, V, Garcia-Blanco S, Santos, C

A Qualitative Analysis of the Experience and Influence of Low Intensive Interval Training in Women with Chronic Fatigue Syndrome

Lennartsson Claudia , Tyni-Lenné Raija , Lindh Gudrun

A Chronic Fatigue Syndrome Health Behavior and Education Train-the-Trainer Program for Primary Care Providers

Dana Jones Benet , Ph.D., M.P.H., K. Kimberly McCleary, B.A., Teresa A. Lupton , R.N., B.S.S., Katherine M. Faryna , B.A., Kevin Hynes, Ph.D., and William C. Reeves, M.D.

Using Comprehensive Clinical Case Management to Improve Health-Care Utilization and Coping in Patients and Families Affected by CFS/FM

Patricia Fennell, MSW, LCSW-R

Depression and CFS: Similarities and Differences From Psychological Evaluation

Tokuzo Matsui M.D., Ph.D., Nobuo Kiriike M.D., Ph.D., Sanae Fukuda Ph.D. , Hirohiko Kuratsune M.D., Ph.D., Seiki Tajima M.D., Ph.D., Yoshiki Nishizawa M.D., Ph.D., Sasuyoshi Watanabe M.D., Ph.D.

Family Experience of Parental Chronic Fatigue Syndrome: A Pilot Study

Julie G. Donalek, R.N., D.N.Sc., A.P.R.N., B.C.

The Impact of an Early Educational Intervention Program on Future Physicians Perceptions and Attitudes Regarding Chronic Fatigue Syndrome (CFS)

Lu, T.V. & Jason, L.A.

Stagnation in CFS Publishing? Comparisons with Fibromyalgia and Fatigue: 1995-2004

Fred Friedberg, PhD, Brett Schmeizer, BA & Stephanie Sohl, MA

A Standardized Test for Postexertional Malaise in CFS

Ruud C.W. Vermeulen MD PhD, Ruud M. Kurk MD and Hans R. Scholte PhD

A Proposed Clinical Protocol for Occupational Therapy in the Treatment of CFS/FM Utilizing the Model of Human Occupation and Fennell Four-Phase Treatment

Jennifer Burke, OTR/L, Patricia Fennell, MSW, LCSW-R

Intravenous Saline Administration Improves Physical Functioning

Travis L. Stiles, Staci R. Stevens, Christopher R. Snell, Lucinda Bateman, and J. Mark VanNess.

Treating People with CFS/FM Who Have Been Victims of Disaster or Trauma

Patricia Fennell, MSW, LCSW-R, Margaret Butkerei, MS, LMSW

The Buddy Program: Support for Individuals with Chronic Fatigue Syndrome

Till, L.D., Jason, L.A., Porter, N., Andrews, M. F.

Evaluating the CDC Criteria for an Empirical CFS Case Definition
Najar, N.S., BA., Porter, N. Ph.D., & Jason, L.A., Ph.D.

Brain Function Section

Metabolic and Immune Responses to Exercise Testing
J. Mark VanNess, Christopher R Snell, Staci R Stevens, Lucinda Bateman and Travis Stiles

Psychomotor Slowing in Chronic Fatigue Syndrome
Greta Moorkens, Filip Van Den Eede, Bernard G.C. Sabbe

Study of Biological Markers, Ergometric Parameters and Cognitive Function in a Cohort of Patients with Chronic Fatigue Syndrome
Alegre-Martin J, Soriano Sanchez T, Javierre C, Garcia Quintana J, Ruiz E, Fernández de Sevilla T, De Meirleir K, Garcia Quintana AM.

Associations Between Biological Markers and Ergometric Parameters and Cognitive Function in Patients with Chronic Fatigue Syndrome
Alegre-Martin J, Soriano Sanchez T, Javierre C, Garcia Quintana J, Ruiz E, Fernández de Sevilla T, De Meirleir K, Garcia Quintana AM

Evidence of Increased Frequency of Patent Foramen Ovale (PFO) in the Chronic Fatigue Syndrome with Enriched Oxygen Modulation of the PFO
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Clinical Trials Section

Effect of Modafinil on Daytime Hypersomnia in Patients with Chronic Fatigue Syndrome
Garcia-Fructuoso F, Fernández-Solá J, Poca-Dias V, Fernández-Huerta JM, Fernandez-Sola A

Lipid Replacement and Antioxidant Therapy for Restoring Mitochondrial Function in Fatiguing Illnesses and Chronic Fatigue Syndrome
Garth L. Nicolson, Ph.D., Rita Ellithorpe, M.D. and Robert Settineri, M.S.

A Randomized Double-blind, Placebo-Controlled Cross-Over Study with Methylphenidate in Sixty Patients with Chronic Fatigue Syndrome
Daniel Blockmans, Philippe Persoons, Boudewijn Van Houdenhove, Herman Bobbaers

Comprehensive Treatments with IVIG For CFS
Tae H. Park, M.D.

A Proposed Protocol for the Dental Treatment of Patients With CFS
Wanda I. Saldaña, DDS, Patricia Fennell, MSW, LCSW-R

Treatment of Elevated C4a in Patients with CFS Using Low Doses of Erythropoietin Safely Reduces Symptoms and Lowers C4a: A Prospective Clinical Trial
Ritchie C. Shoemaker, MD, Margaret S. Maizel

Treatment of CFS Patients With Low Levels of Vasoactive Intestinal Polypeptide (VIP) and Shortness of Breath with Tadalafil Improves Exercise Tolerance and Pulmonary Artery Responses to Exercise
Ritchie C. Shoemaker, MD, Margaret S. Maizel

Treatment of CFS Patients With Elevated C4a Using Low Dose Erythropoietin Corrects Abnormalities in Central Nervous System Metabolites and Restores Executive Cognitive Functioning
Ritchie C. Shoemaker, MD, Margaret S. Maizel

Epidemiology Section

Self-Reported Chronic Fatigue and Timed Loaded Standing in The Gambia and in Belgium
Jan Eyskens, Marie Ielegems, Greta Moorkens

Chronic Fatigue Syndrome and Fibromyalgia in Patients Affected of Multiple Chemical Sensitivity
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The Development of an Epidemiological Case Definition for Chronic Fatigue Syndrome / Myalgic Encephalomyelitis (CFS/ME)
T Osoba, D Pheby, S Gray, L Nacul, J Duffield,

Toward an Empirical Case Definition of CFS
Leonard A. Jason, Karina Corradi, Susan Torres-Harding

Chronic Fatigue Syndromes: To Exclude to Not to Exclude Other Diagnoses
James F. Jones, MD, Jin-Mann Lin, Elizabeth M. Maloney, William C. Reeves.

Myalgic Encephalomyelitis (M.E.), The Definition:
Byron Hyde M.D.

Major Findings in 150 Consecutive M.E. and CFS Patients Who Were Subjected to Total Body Physical and Technological Examination of All Organs and Systems
Byron Hyde MD

A Discussion of the Los Angeles County Hospital 1934 M.E. epidemic and the Akureyri M.E. Epidemics
Byron Hyde MD

Fatigue Section

Comparing Heart Rate Variability in Chronic Fatigue Syndrome and Healthy Controls using Commercially Available Software
Eleanor Stein MD FRCP(C)

Post-Exertional Malaise Following an Exercise Challenge
Staci R. Stevens, Christopher R. Snell, Lucinda Bateman, Travis L. Stiles and J. Mark VanNess

Lactose Intolerance and/or Fructose Malabsorption: A Predisposing Factor for the Development of CFS?
P. De Becker, K. De Meirleir, J. De Leersnijder, L. De Meirleir

Glutathione Depletion--Methylation Cycle Block Hypothesis for the Pathogenesis of Chronic Fatigue Syndrome
Richard A. Van Konynenburg, Ph.D.

Effective Treatment of Chronic Fatigue Syndrome and Fibromyalgia with D-Ribose
Jacob E. Teitelbaum, MD, J.A. St.Cyr, MD, PhD, Clarence Johnson

What Do We Know About Multiple Chemical Sensitivity? An Overview of the Research
Pamela Reed Gibson, Ph.D., Amanda Lindberg*, M.A. Candidate

Physicians Perceptions and Practices Regarding Patient Reports of Chemical Sensitivity
Pamela Reed Gibson, Ph.D., Amanda Lindberg, M.A. Candidate

Unexplained Fatigue in Patients With and Without Symptoms of Chronic Rhinosinusitis: Do These Populations Differ?
Alexander C. Chester, MD, Georgetown University Medical Center, Washington, DC

Decreased Renal Function in CFS Patients
Tae Park, M.D.

Validation and Usefulness of the Quick Environment Exposure Sensivity Inventory (QEESI©) The Spanish Population
CUSCO-SEGARRA AM, GARCIA-FRUCTUOSO FJ, LOPEZ-CRESPI F, POCA-DIAS, V

Thyroid Malignancy Association with Cortical & Subcortical Brain SPECT Changes In Patients Presenting with a Myalgic Encephalomyelitis / Chronic Fatigue Syndrome
Hyde, Byron M.D, Green, Tracy, Jean Léveillé M.D

Effect of Supplement With Lactic-Acid Producing Bacteria on Fatigue and Physical Activity in Patients with Chronic Fatigue Syndrome
Sullivan A, Nord CE, Evengard B

Gender Section

Why is the Prevalence of Chronic Fatigue Syndrome Higher in Women than in Men?--A Hypothesis
Richard A. Van Konynenburg, Ph.D.

Specific Cardioventilatory Response in SFC Women During a Very Light Intensity of Exercise
Suarez A, Javierre C, Alegre J, Garcia Quintana A, Barbany JR, Morales A, Ventura JL

Differences in the Recovery Period Between a Group of CSF Women and a Matched Control Group After a Supramaximal Effort
Suarez A, Javierre C, Garcia-Quintana A, Alegre J, Ventura JL, Barbany JR and Segura R

Genetics / Proteomics Section

Genetics of Chronic Fatigue Syndrome and its Subgroups Defined by Latent Class Analysis
Mangalathu S. Rajeevan[†], Alicia K. Smith, Elizabeth Maloney, Eric Aslakson, Suzanne D. Vernon, William C. Reeves

Expression of MicroRNAs (miRNAs) in Chronic Fatigue Syndrome (CFS)
Robert Petty, Tim Rutherford, Ken Laing, Jane Montgomery, Selwyn CM Richards, Jonathan R Kerr

Transcriptome Analysis of Peripheral Blood Mononuclear Cells from Patients with Chronic Fatigue Syndrome
Hanna Gräns, Birgitta Evengård and Peter Nilsson

Case-Control Study of Genotypes in Multiple Chemical Sensitivity: CYP2D6, NAT1, NAT2, PON1, PON2 and MTHFR

Gail McKeown-Eyssen, Cornelia Baines, David EC Cole, Nicole Riley, Rachel F Tyndale, Lynn Marshall and Vartouhi Jazmaji

Presented by Alison C. Bested, M.D., FRCPC

Investigation of Human Gene Signatures of Past Persistent Microbial Infections in Unstressed Normal Blood donors; Possible Relevance to the Pathogenesis of Chronic Fatigue Syndrome

Beverly Burke, Jonathan R Kerr

Pain Section

Chronic Fatigue Syndrome and Fibromyalgia Sufferers: Now There's Hope and Help!

Alison C. Bested, M.D., FRCPC

Pediatrics Section

Are 'Hypoglycaemic' Symptoms in CFS Associated with Hypoglycaemia?

Fergus Cameron and Katherine Rowe

Pediatric Chronic Fatigue Syndrome and Munchausen-by-proxy: A Case Study

Van Hoof E, De Becker P and De Meirleir K.

Sleep Section

Defining the Occurrence and Influence of Alpha-Delta Sleep in Chronic Fatigue Syndrome

Elke Van Hoof, PhD, Pascale De Becker PhD, Charles Lapp MD, Raymond Cluydts PhD, Kenny De Meirleir PhD

Perception versus Polysomnographic Assessment of Sleep in CFS and Non-Fatigued Controls: Results from a Population-Based Study

Matthias Majer, Ph.D., James F. Jones, M.D, Elizabeth R. Unger MD, Ph.D, Laura Solomon Youngblood, MPH, Michael J. Decker, R.N., Ph.D., Elizabeth Maloney, M.S., Dr. P.H., Brian Gurbaxani Ph.D., Christine Heim, Ph.D., William C. Reeves, M.D., M.Sc

Viral / Immune Section

The Establishment of a National ME Observatory for the UK

D Pheby, PD Campion, M de L Drachler, E Lacerda, JC de Carvalho Leite, L Nacul, F Poland, Trish Taylor.

Incidence of Chromosomally Integrated HHV-6 (CIHHV-6) in a Cohort of CFS Patients with Clonal TCR α and Lymphoid Malignancies

David Pomeranz¹, Kathryn Hagen, Byron Hsu, Judy A. Mikovits and Daniel L Peterson.

***In Vivo*-Induced Antigen Technology for Detection of Antibodies Against *Borrelia burgdorferi* and its Cross-reactive Antigens in Patients with Chronic Fatigue and Fibromyalgia**

Aristo Vojdani, Ph.D., M.T., Immunosciences Lab., Inc., Bernard Raxlen, M.D.

The Life Cycle of *Cryptosporidium parvum* in Chronic Fatigue Syndrome
Lawrence A. Klapow, PhD

Immune Effects of an Acute Exercise Challenge in Gulf War Illness
Nancy G. Klimas, Martin Rosenthal and Mary A. Fletcher.

Visible and Near-Infrared Spectroscopy for Diagnosis of Systemic Lupus Erythematosus, Showing Fatigue Symptoms like Chronic Fatigue Syndrome
Yukiko Hakariya¹, Akikazu Sakudo, Takanori Kobayashi, Seiki Tajima, Junzo Nojima, Hirohiko Kuratsune, Yasuyoshi Watanabe, and Kazuyoshi Ikuta¹

Comparison of the Composition of the Intestinal Microflora of FS Patients When in the Acute Phase of Illness
Brigitta Evengard, M.D., Ph.D.

Enteroviruses and Chronic Fatigue Syndrome
John K. Chia, M.D., Andrew Y. Chia, B.S.

Meta-Analysis of Well-Controlled, Randomized, Double-Blinded, Phase II/III Clinical Trials of Poly I : Poly C₁₂U vs. Placebo in Chronic Fatigue Syndrome
David R. Strayer, Tom McCarron, Ying Han, William A. Carter, Staci Stevens

IgM Serum Antibodies to Cytomegalovirus Nonstructural Gene Products p52 (UL44) and CM₂ (UL44 and UL57) Detect Active Infection in Patients with Unexplained Life-Altering Fatigue
A Martin Lerner, M.D., Safedin H. Beqaj, Ph.D. and James T. Fitzgerald, Ph.D.

Absence of TH2 – Biased Mucosal Immunity As Measured by Eosinophil Peroxidase
Susana Repka-Ramirez, Kristina Naranch-Petrie, Gerald Gleich, James N. Baraniuk

Antipolymer Antibody Reactivity in Chronic Fatigue Syndrome Patients
L. Bazzichi[^], F. De Feo[^], C. Giacomelli*, T. Giuliano[^], A. Rossi*, M. Doveri[^], S. Bombardieri[^]