## **PROGRAM**

# Wednesday, September 3, 2008

Openin	ng Session	
9:00	Opening Remarks	Yoshiki Nishizawa
9:10	Greeting	Nobuya Hashimoto
9:20	Greeting	Nancy G. Klimas
9:30	Greeting	Suzanne D. Vernon
Keynot	ote Lectures Chairs: Yasuyoshi Wat	tanabe / Benjamin H. Natelson
9:40	KL-01 Immune and neuoendocrine networking, and novel approach	nes to biomarker discovery in
	CFS/ME and related illnesses	
	Nancy G. Klimas	
	University of Miami and the Miami Veteran Healthcare System, USA	A
10:10	KL-02 The epidemiology of fatigue and Chronic Fatigue Syndrome	
	Peter D. White	
	Barts and the London Medical School, London, UK	
10:40	Coffee Break	
	Chairs: Yoshiki Nie	shizawa / Birgitta M. Evengård
11:00	KL-03 A genomic approach to understand the biology of fatigue and	l fatiguing illness to improve
	objective diagnosis and treatment	
	Suzanne D. Vernon	
	CFIDS Association of America, USA	
11:30	KL-04 Fatigue science for human health	
	Yasuyoshi Watanabe	
	The 21st Century COE Program, "Base to Overcome Fatigue", MEXT	Γ,
	Molecular Imaging Research Program, RIKEN,	
	Department of Physiology, Osaka City University Graduate School of	of Medicine,
	JST/RISTEX, Japan	

12:10-13:00	Luncheon Seminar	[sanofi-aventis K.K., Astellas Pharma Inc.]
		Chair: Yoshiki Nishizawa
	Association between metabolic syndrome and insomnia	
	Naohisa Uchimura	
	Department of Neuropsychiatry, K	Curume University School of Medicine, Fukuoka, Japan

## [Symposium 1] Chronic Fatigue Syndrome (CFS) and Related Diseases(I)

#### Chairs: Kenny L. De Meirleir / Hirohiko Kuratsune

19:00-21	:00 Buffet Dinner
17:30-18	:30 Poster Discussion
	Tokuzo Matsui
16:50	S1-09 A new Japanese guideline for Chronic Fatigue Syndrome
_0 <b></b> 0	Kenji Kato
16:25	S1-08 A population-based twin study of functional somatic syndromes
	Mary A. Fletcher
10.00	Fatigue Syndrome
16:00	John W. Gow S1-07 Dipeptidyl peptidase IV (DDPIV/CD26) and neuropeptide Y (NPY): Biomarkers for Chronic
	in Chronic Fatigue Syndrome
15:35	<b>S1-06</b> Scottish centre for the study of fatigue science: DNA microarray analysis of gene expression
	Chairs: Leonard A. Jason / Kazuhiro Kondo
15:15	Coffee Break
	Dikoma C. Shungu
14.50	anxiety disorder: An <i>in vivo</i> <sup>1</sup> H magnetic resonance spectroscopic imaging study
14:50	S1-05 Ventricular CSF lactate is elevated in Chronic Fatigue Syndrome compared to generalized
14:25	S1-04 Neural mechanisms underlying chronic fatigue (P-07)  Masaaki Tanaka
1405	Floris P. de Lange
14:00	S1-03 Dynamics of brain structure in CFS
	Benjamin H. Natelson
13:35	<b>S1-02</b> Chronic Fatigue Syndrome & Fibromyalgia: An exploration of differences
	Birgitta M. Evengård

# Thursday, September 4, 2008

[Sympo	osium 2] Chronic Fatigue Syndrome (CFS) and Related Diseases(II)
	Chairs: Suzanne D. Vernon / Hidenori Koyama
8:30	<b>S2-01</b> Viral DNA in the gastric and intestinal mucosa of patients with Chronic Fatigue Syndrome
	Kenny L. De Meirleir
8:50	S2-02 Increased D-lactic acid intestinal bacteria in patients with Chronic Fatigue Syndrome
	Kenny L. De Meirleir
9:10	<b>S2-03</b> Identification of novel HHV-6 latent protein associated with mood disorders and molecular mechanism of fatigue due to overwork
	Kazuhiro Kondo
9:35	S2-04 Immunologic and virologic profiling of individuals with Myalgic Ecephaolomyelitis/
	Chronic Fatigue Syndrome (ME/CFS) reveals distinct pathogen associated signatures within a well
	characterized cohort.
	Judy A. Mikovits
10:00	S2-05 Chronic Fatigue Syndrome and major depressive disorder
	Nobuo Kiriike
10:25	Coffee Break
[Sympo	osium 3] Measure/Scale of Fatigue
	Chairs: Nancy G. Klimas / Kazuhiro Iwai
10:40	S3-01 Evaluation of fatigue by acceleration plethysmography (Part.I) (From the viewpoint of
	autonomic nervous system)
	Kouzi Yamaguti
11:00	S3-02 The CardioPulmonary Exercise Test (CPET) for the differential diagnosis of chronic fatigue
	Ruud C. Vermeulen
11:20	S3-03 Heart rate variability can have an insight into working-quality of white-collar jobs
	Jun-ichi Koizumi
11:40	S3-04 Non-arbitrary detection of flicker fusion threshold with pupil diameter and visual evoked
	magnetic field
	Nobuyoshi Harada
12:00	S3-05 Alternans lowers the scaling exponent of heartbeat fluctuation dynamics: A detrended
	fluctuation analysis in animal models and humans for a health check up
	Toru Yazawa
12:30-13	3:20 Luncheon Seminar [Soiken Holdings Inc. Japan Preventive Medicine Inc.]
12.00 10	Chair: Yosky Kataoka
	Anti-fatigue effects of imidazole dipeptides
	Masaaki Tanaka
	Department of Biomarker and Molecular Biophysics, Osaka City University Graduate
	School of Medicine, Osaka, Japan

## [Symposium 4] Mechanisms of Fatigue and Fibromyalgia

#### Chairs: Peter D. White / Kiyoshi Matsumura

13:35	S4-01 Fatigue signalings in the brain		
	Yosky Kataoka		
14:00	S4-02 Disorders of homeostasis centers in fatigued rat		
	Hiroshi Kiyama		
14:25	S4-03 Disturbed heme metabolism in the liver of fatigue model rats and its involvement of fatigue		
	Kazuhiro Iwai		
14:50	S4-04 Brain mechanisms of immunologically induced fatigue in the rat		
	Toshihiko Katafuchi		
15:15	Coffee Break		
	Chairs: Floris P. de Lange / Hiroshi Kiyama		
15:35	S4-05 Sex difference in the stress response to fasting		
	Mika Jikumaru		
16:00	S4-06 Imaging of lactate utilization in the brain <i>in vitro</i> and <i>in vivo</i>		
	Kiyoshi Matsumura		
16:25	S4-07 Intermittent cold stress causes a long-term allodynia and hyperalgesia in mice, a model for		
	generalized chronic pain syndrome or Fibromyalgia		
	Hiroshi Ueda		
16:50-18	:00 Poster Discussion		
19:00-21	19:00-21:30 Reception		

# Friday, September 5, 2008

[Symposium 5] Childhood/Adolescent Fatigue and Learning Motivation		
	Chairs: Katherine S. Rowe / Teruhisa Miike	
8:30	S5-01 Sleep problems and Chronic Fatigue Syndrome in childhood	
	Teruhisa Miike	
8:55	S5-02 Autoantibodies generating fatigue long before the onset of the diseases in children	
	Yasuhiko Itoh	
9:20	S5-03 Natural history of Chronic Fatigue Syndrome in adolescents in Australia	
	Katherine S. Rowe	
9:45	S5-04 Motivation for learning, fatigue and sleep; from the results of the cohort study	
	Sanae Fukuda	
10:10	S5-05 Neural substrates of academic achievement motivation related to neural mechanism of fatigue	
	Kei Mizuno	
10:35	Coffee Break	
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Sympo	osium 6] Treatment and Fatigue	
10.55	Chairs: John W. Gow / Masaaki Tanaka	
10:55	S6-01 Relationship between fatigue and the daily diet in Japan (P-22)	
	Hirohiko Kuratsune	
11:20	S6-02 Behavioural treatments for Chronic Fatigue Syndrome	
	Peter D. White	
11:45	S6-03 Biological predictors of change following participation in non-pharmacologic interventions	
	Leonard A. Jason	
12:10-13	3:10 Lunch	
	Chairs: John W. Gow / Masaaki Tanaka	
13:20	S6-04 Psychosomatic treatment and management of Chronic Fatigue Syndrome	
10.20	Chiharu Kubo	
13:45	S6-05 Fatigue in patients with end-stage renal diseases	
10.40	Hidenori Koyama	
14.10	•	
14:10	S6-06 Development of anti-fatigue food: Results from human studies	
	Yoshitaka Kajimoto	

# Closing Remark 14:35 Hirohiko Kuratsune

# Wednesday, September 3 - Friday, September 5, 2008

## **Poster Session**

P-01	A two-year follow-up study of psychiatric disorders comorbid with Chronic Fatigue Syndrome (CFS)	Yasunori Matsuda
P-02	Summary of patients with chronic fatigue visiting to medical experts in fatigue	Yukiko H. Kato
P-03	Cognitive Behavioral Therapy (CBT) for patients with Chronic Fatigue Syndrome: Comparing CBT in group and individual therapy	Nahoko Kusaka
P-04	No difference of parvovirus B19 prevalence between Chronic Fatigue Syndrome patients and healthy individuals in Japan	Yukiko H. Kato
P-05	Evaluation of fatigue by acceleration plethysmography (Part.II)  (From the view point of complexity system)	Kouzi Yamaguti
P-06	Experimental therapeutic approach with polymyxin B column absorption to Chronic Fatigue Syndrome	Kazuki Miura
P-07	Neural mechanisms underlying chronic fatigue	Masaaki Tanaka
P-08	Job-related stress, job satisfaction, and working conditions among doctors in the regional core hospitals	Sayuri Kaneko
P-09	Physical performance tests are useful for the evaluation of fatigue induced by physical load in healthy people	Tomohiro Sugino
P-10	Therapeutic effects of thalassotherapy on fatigue in healthy young women	Kuniaki Takagi
P-11	Increase in serotonin release in human brain induced by exercise:  A PET study	Toshihiko Fujimoto
P-12	Investigation of Okinawa-spa effect from the view point of EEG power value	Toshiharu Kurita
P-13	The relationship between fatigue and visual evoked cortical magnetic response	Yoshihito Shigihara
P-14	A preliminary trial of physiological fatigue evaluation using heart rate variability analysis	Seiki Tajima
P-15	Salivary cortisol and self-reports of pleasure-displeasure of unmarried young people in contact with infant	Kyoko Imai-Matsumura
P-16	Fatigue is associated with eating habits and intake of nutrients in general population	Hisako Fujii
P-17	Infant-directed behavior and speech of university students: A basic study aiming at preventing childcare stress.	Ai Nakagawa
P-18	Fatigue and metabolic syndrome among Japanese men and women	Tetsuya Ohira

P-19	The evaluation of fatigue by using plethysmograph and self- organizing map	Tetsuya Sasabe
P-20	Effect of acupressure points stimulation on ocular fatigue causes by VDT work	FengHao XU
P-21	Which aroma is the most effective for anti-fatigue? A preliminary study	Sanae Fukuda
P-22	Relationship between fatigue and the daily diet in Japan	Hirohiko Kuratsune
P-23	Imidazole dipeptides attenuate fatigue induced by physical load in human	Sayaka Aoyagi
P-24	Examination of the high bright light therapy for the Childhood Chronic Fatigue Syndrome	Takako Jodoi
P-25	Metabolic dysfunction and circadian rhythm abnormalities in children and adolescents with sleep disturbance	Akemi Tomoda
P-26	The actigraphic evaluation of sleep-awake rhythm and daily activity level among with Child Chronic Fatigue Syndrome	Junko Kawatani
P-27	Feedback from young people with Chronic Fatigue Syndrome on the perceived usefulness of various management strategies including alternative therapies	Katherine S. Rowe
P-28	Aspects of intellectual ability in Childhood Chronic Fatigue Syndrome (CCFS)	Miyuki Takano
P-29	The association between effort-reward imbalance for learning and fatigue in school children	Sanae Fukuda
P-30	Learning motivation among early elementary school aged children - What would make them intrinsically motivated?	Rika Okamura
P-31	Psychosocial predictors of fatigue among school children in Japan:  The one-year follow-up study	Emi Yamano
P-32	Children's feeling transformation and health care in summer seaside camp	Tadashi Yano
P-33	Examination of Hb/Alb as the simple screening of Sleep Apnea Syndrome (SAS) for psychiatric patients	Tatsuyo Suzuki
P-34	Moxibustion improved pain in patients with Fibromyalgia	Takeo Madarame
P-35	Activation of microglia and reduction of cerebral glucose metabolism in a mouse model of fatigue caused by sleep disturbance	Miho Shukuri
P-36	Alterations of inflammatory responses to LPS in rat fatigue model	Nobue Shishioh-Ikejima
P-37	Prolonged fatigue exhibits the opposed proliferation regulations in the anterior and intermediate pituitary cells	Tokiko Ogawa
P-38	Aged garlic extract as an anti-fatigue agent	Takeshi Nishihama
P-39	Genotype dependent antidepressant-like effect of green odor in mice	Yasuhito Nakatomi

P-40	Inflammatory cytokines expression in the brain is involved in poly	Masanori Yamato
	I:C-induced immunological fatigue-like behavior in rats	
P-41	Mechanisms of decreased [18F] 2-fluoro-2-deoxy-D-glucose	Ko-hei Akazawa
	accumulation in the brain of fatigued rats	
P-42	Effects of (-)-epigallocatechin gallate on an animal model of combined	Yoshitake Baba
	(physical and mental) fatigue	
P-43	A novel method of PET imaging for neuropsychiatric disorders in	Hiroshi Mizuma
	mice	
P-44	Non-REM sleep induction after excessive brain excitation: A possible	Yilong Cui
	pathway for central fatigue recovery	
P-45	The role of laminin-332 and -511 in the regulation of stress-induced	Daisuke Tsuruta
	alopecia	
P-46	Regulation of gastric emptying by reciprocal alteration between	Masahiro Ochi
	plasma catecholamine and ghrelin levels in a rat model of fatigue	
P-47	Expression of c-Fos in the central nervous system in a rat model for	GuangHua Jin
	immunological fatigue induced by poly I:C administration	
P-48	Changes in behavior and brain GABAergic activity by mental fatigue:	Hirotaka Onoe
	PET study with macaque monkeys	
P-49	Decrease of hepatic delta-aminolevulinate dehydratase activity in an	Tsuyoshi Tahara
	animal model of fatigue	
P-50	Up-regulation of aromatase in the fatigued model rats	Makoto Ozawa