TUESDAY, SEPTEMBER 10, 2013

- 15:00-17:00 Registration
- 17:20–17:30 Opening Remarks: Yoichi UETA
- 17:30–18:30 Plenary Lecture Chair: Yoichi UETA

 Challenge to novel bioactive peptides
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 Kenji KANGAWA
 (National Cerebral and Cardiovascular Center Research Institute, Japan)

18:40–20:00 Welcome Reception

WEDNESDAY, SEPTEMBER 11, 2013

7:00-8:50 Breakfast

9:00–12:45	homeosta Chairs: Kene	mechanisms of feeding behavior in the regulation of energy
	9:00-9:30	 [A-1] Hlez2 deficiency improves peripheral leptin resistance, despite central leptin resistance
	9:30-10:15	[A-2] CNS regulation of signaling pathways and energy balance by protein tyrosine phosphatases 28 Kendra K. BENCE (Department of Animal Biology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, USA)
	10:15-10:45	[A-3] Adipocyte-leptin-brain system as a regulator of energy metabolism
		Kiminori HOSODA (Kyoto University Graduate School of Medicine, Japan)

10:45-11:00 [A-4 (PS No. 50)] Importance of transcriptional regulation by Dmbx1 in adult brain in AgRP-induced feeding 131 Takashi MIKI (Department of Medical Physiology, Chiba University, Graduate School of Medicine, Japan)

11:00–11:30 Coffee Break

11:30-12:15 [A-5]

Brain regulation of feeding by somatostatin and nesfatin-132
Yvette France TACHÉ
(Department of Medicine, Digestive Diseases Division, University of California
Los Angeles, USA)

12:15-12:45 [A-6]

Nesfatin-oxytocin system: central and peripheral regulator of34 feeding and metabolism providing a target to treat obesity Toshihiko YADA (Department of Physiology, Division of Integrative Physiology, Jichi Medical University

School of Medicine, Japan)

12:45-14:00 Lunch

14:00–17:45	Session E	3
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Metabolic signals and feeding behavior

Chairs: Tamas L. HORVATH Yasuhiko MINOKOSHI

14:00-14:30 [B-1]

Free fatty acid receptor GPR120, physiology and drug discovery

Akira HIRASAWA (Department of Genomic Drug Discovery Sciences, Kyoto University, Japan)

14:30-15:15 [B-2]

Hunger-promoting hypothalamic neurons in integrative physiology

Tamas L. HORVATH

(Yale University, School of Medicine, USA)

15:15-15:45 [B-3]

Hypothalamic Sirt1 regulates food intake and energy expenditure 42

Tadahiro KITAMURA

(Metabolic Signal Research Center, Institute for Molecular and Cellular Regulation, Gunma University, Japan)

15:45-16:00 [B-4 (PS No. 26)]

Enhanced high sucrose diet preference in Elovl6 deficient mice

Noriko SUZUKI-KEMURIYAMA

(Department of Endocrinology and Metabolism, Faculty of Medicine, University of Tsukuba, Japan)

16:30-17:00 [B-5]

Regulatory role of hypothalamic AMP-activated protein kinas	
in feeding behavior	44
Yasuhiko MINOKOSHI	
(Division of Endocrinology and Metabolism, National Institute for Physiologic	al
Sciences, Japan)	
7:00-17:45 [B-6]	

17:45-19:00 Dinner

19:00-21:00 Poster Session I

THURSDAY, SEPTEMBER 12, 2013

7:00–8:50 Breakfast

9:00–12:45 Session C Organ network of energy homeostasis Chairs: Matthias H. TSCHÖP Masamitsu NAKAZATO

9:00-9:30	[C-1] Mechanism and treatment for hypothalamic insulin resistance
	(Department of Endocrinology and Metabolism, Saitama Medical University, Japan)
9:30-10:15	[C-2] Neonatal programming of hypothalamic neurocircuits in control of energy and glucose homeostasis
10:15-10:45	[C-3] The effect of impaired energy metabolism on adult neural function
	Akiko TAGUCHI (Division of Neurology, Endocrinology, and Metabolism, Faculty of Medicine, University of Miyazaki, Japan)
10:45-11:00	[C-4 (PS No. 31)] Suppression of AMP kinase activity in skeletal muscle improves metabolic abnormalities of streptozotocin-induced insulin- deficient diabetes mellitus in mice Shigefumi YOKOTA (Division of Endocrinology and Metabolism, Department of Developmental Physiology, National Institute for Physiological Sciences, Japan)

	11:30-12:00	[C-5] Functional interaction between ghrelin and GLP-1 for feeding regulation 54 Masamitsu NAKAZATO (Division of Neurology, Respirology, Endocrinology and Metabolism, Department of Internal Medicine, Faculty of Medicine, University of Miyazaki, Japan)
	12:00-12:45	[C-6] Novel therapies for diabetes and obesity Matthias H. TSCHÖP (Helmholtz Centre & Technische Universität München, Munich, Germany)
12:45–14:00	Lunch	
14:00–17:45	Systemic Chairs: Barb) regulation of energy metabolism bara CANNON eki KATAGIRI
	14:00-14:30	[D-1] Neuronal information highways for systemic regulation of glucose and energy metabolism 58 Hideki KATAGIRI (Division of Metabolism and Diabetes, Tohoku University Graduate School of Medicine, Japan)
	14:30-15:00	[D-2] Mechanisms underlying glucocorticoid-induced changes in feeding behavior 60 <u>Hiroshi ARIMA</u> (Department of Endocrinology and Diabetes, Nagoya University Graduate School of Medicine, Japan)
	15:00-15:45	[D-3] Brain control of glucose metabolism
	15:45-16:00	[D-4 (PS No. 18)] Meal frequency patterns determine the body clocks and health, detected by in vivo imaging in mice Yu TAHARA (Department of Physiology and Pharmacology, School of Advanced Science and Engineering, Waseda University, Japan)
16:00–16:30	Coffee Bre	eak

16:30-17:00 [D-5]

Molecular mechanisms of type 2 diabetes and insulin resistance	
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Naoto KUBOTA

(Department of Diabetes and Metabolic Diseases, Graduate School of Medicine, The University of Tokyo, Japan)

17:00-17:45 [D-6]

 Brown adipose tissue and energy balance
Barbara CANNON
(The Wenner-Gren Institute, Stockholm University, Sweden)

17:45-19:00 Dinner

19:00-21:00 Poster Session II

FRIDAY, SEPTEMBER 13, 2013

7:00-8:50 Breakfast

9:00–12:45	Session E Homeostatic regulation of energy balance in the hypothalamus Chairs: Quentin PITTMAN Yoichi UETA		
	9:00-9:30	[E-1] Stress and energy metabolisms: roles of PrRP and oxytocin Tatsushi ONAKA (Division of Brain and Neurophysiology, Department of Physiology, Jichi Medical University, Japan)	
	9:30-10:15	[E-2] The regulation of energy balance via brain dietary nutrient sensing	
	10:15-10:45	[E-3] Roles of newly identified lateral hypothalamic peptides in the regulation of feeding behavior and body weight homeostasis	
		Takeshi SAKURAI (Faculty of Medicine, Department of Molecular Neuroscience & Integrative Physiology, Kanazawa University, Japan)	
	10:45-11:00	[E-4 (PS No. 55)] The effect of maternal nutritional condition during lactation for the pubertal onset of offsprings of female Sprague-Dawley rats ······136 <u>Hitoshi OZAWA</u> (Department of Anatomy and Neurobiology, Graduate School of Medicine, Nippon Medical School, Tokyo, Japan)	

11:00–11:30 Coffee Break

11:30-12:15	[E-5] Early inflammatory and metabolic stressors: adult energy balance and metabolism 74
	Quentin PITTMAN
	(Hotchkiss Brain Institute, Department of Physiology and Pharmacology, University of Calgary, Calgary, Canada)
12:15-12:45	[E-6] Hypothalamic regulation of water balance related to the feeding behavior
	Yoichi UETA
	(Department of Physiology, School of Medicine, University of Occupational and Environmental Health, Japan)

- 12:45–13:00 Announcement
- 13:00–13:05 Closing Remarks: Masatomo MORI
- 13:05-13:40 Lunch