【Venue】

Center for Advanced Biomedical Sciences (TWIns),Waseda University
2-2 Wakamatsu-cho, Shinjuku, Tokyo, 162-8480 Japan

The 3rd Conference of

the Japanese Association for Hypoxia Biology

Date: July 25 (Saturday), 2015 15:00 - 21:00

Venue: Center for Advanced Biomedical Sciences (TWIns), Waseda University
2-2Wakamatsu-cho, Shinjuku, Tokyo, 162-8480 Japan

Registration: On-site (1,000 JPY / person);
Light bites will be served in the poster session.

web：www.teisannsokenkyuukai.org

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Chief organizers	Masaomi Nangaku (The University of Tokyo)
	Nobuhito Goda (Waseda University)
Associate organizers	Yasuo Mori (Kyoto University)
	Norio Suzuki (Tohoku University)
	Keiyo Takubo (National Center for Global Health and Medicine)
	Norihiko Takeda (The University of Tokyo)

Cooperation The Japanese Association for Hypoxia Biology
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【Program】

15:00 **Opening Remarks** (Norio Suzuki)

15:10 **Young Investigator Session** (Chair: Norihiko Takeda) **in Japanese**

Candidate 1 (20')

Tomohiro Suhara (Keio University)

"Inhibition of the oxygen sensor PHD2 in the liver improves survival in lactic acidosis by activating the Cori cycle"

Candidate 2 (20')

Katsura Soma (The University of Tokyo)

"Persistent accumulation of M1 macrophages induces immature vessel formation in tumor tissue"

Candidate 3 (20')

Masahiro Nezu (Tohoku University)

"Activation of hypoxia signaling maintains erythropoietin synthesis in renal myofibroblasts"

16:10 Tea Break

16:30 **Symposium Session I** (Chair: Norio Suzuki) (25' x 3)

Tetsuhiro Tanaka (The University of Tokyo)

"Mechanisms of hypoxia-inducible factor 1 regulation in kidney"

Keiyo Takubo (National Center for Global Health and Medicine)

"Homeostatic regulation of hematopoietic stem cells in the hypoxic niche"

Fredrik Palm (Uppsala University)

"Role of intrarenal hypoxia in diabetic nephropathy"

17:45 Tea Break

18:05 **Symposium Session II** (Chair: Nobuhito Goda)

Maarten Koeners (Bristol University) (25')

"*Tissue oxygen and blood flow in conscious rats: a telemetric approach*"

18:30 **Plenary Lecture** (Chair: Nobuhito Goda)

Makoto Suematsu (Japan Agency for Medical Research and Development) (60')

"Gas-mediated regulation of metabolism of cancer"

19:30 **Poster Session with Light Bite**

YIA Ceremony

【Poster Presentation List】

1	Takeharu Sakamoto	Division of Molecular Pathology, the Institute of Medical Science, the University of Tokyo, Tokyo, Japan
		Control of metastatic niche formation by targeting APBA3/Mint3 in inflammatory monocytes
2	Masahiro Nezu	Tohoku University Graduate School of Medicine, Sendai, Japan
		Activation of hypoxia signaling maintains erythropoietin synthesis in renal myofibroblasts
3	Hajime Abe	Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, Japan
		Roles of macrophages hypoxia signaling in pressure overload induced cardiac remodeling
4	Keizo Nishikawa	Laboratoty of Immunology and Cell Biology, WPI-Immunology Frontier Research Center, Osaka University
		Dnmt3a regulates osteoclast differentiation by coupling to an oxidative metabolic pathway
5	Yosuke, Hirakawa	Graduate School of Medicine, The University of Tokyo, Japan
		Detection and quantification of intracellular hypoxia of kidney by phosphorescence lifetime measurement using BTPDM1
6	Kenji Izumi	Div of Biomimetics, 3 Div of Oral Anatomy, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan
		Application of phosphorescent Ir(III) complex for monitoring oxygen levels in a tissue-engineered, ex vivo produced oral mucosa equivalent (EVPOME) – A preliminary study
7	Atsushi Yamashita	Department of Pathology and 2Department of Internal Medicine, Faculty of Medicine, University of Miyazaki, Miyazaki, Japan
		Vascular wall hypoxia promotes arterial thrombus formation
8	Daichi Sadato	Department of Molecular Medical Research, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan.
		Shwachman-bodian-diamond syndrome protein promotes hypoxic response via interaction with hypoxia-inducible factor 2α
9	Futoshi Shibasaki	Molecular Medical Research Project, Department of Genome Medicine, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan
		Functional angiogenesis and tissue damage protection through HIF2a pathway regulated by Int6/eIF3e
10	Shoko Minagawa	Department of life science and medical bioscience, School of Advanced Science and Engineering, Waseda University, Tokyo, Japan
		A phenotypic analysis of HIF function in immune cells during acetaminophen induced liver injury
11	Hidemasa Bono	Database Center for Life Science, Research Organization of Information and Systems, Mishima, Japan
		Collective intelligence approach to transcriptome analysis of hypoxia
12	Toshitada Yoshihara	Division of Molecular Science, Gunma University, Kiryu, Japan
		In vivo oxygen sensing using phosphorescence lifetime measurements of cationic iridium(III) complexes
13	Yutaka Kikuchi	Division of Microbiology, National Institute of Health Sciences, Tokyo, Japan
		Expression of a splice variant of prion protein in human glioblastoma cell line T98G regulated by the overexpression of bHLH transcription factor DEC1.
14	Masaki Wake	Department of Cardiovascular Medicine, Tokyo University,Tokyo, Japan
		The analysis of metabolic alterations in cardiac fibroblast activation.
15	Tomohiro Suhara	Department of Biochemistry, Keio University School of Medicine, Tokyo, Japan
		Inhibition of the oxygen sensor PHD2 in the liver improves survival in lactic acidosis by activating the Cori cycle
16	Katsuhiro Koyama	Department of Cardiovascular Medicine The University of Tokyo Graduate School of Medicine, Tokyo, Japan
		Establishment and characterization of mouse cardiac fibroblast cell line
17	Katsura Soma	Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, Japan
		Persistent accumulation of M1 macrophages induces immature vessel formation in tumor tissue

21:00 **Closing Remarks** (Nobuhito Goda)