The 64th Annual Meeting of the Japan Diabetes Society The sessions with the overseas invited guests

Please note that the date & time is Japan time. Please see your time shown in the TIME ZONE next page.

Special Lecture 1	Defining the Intrinsic Molecular Defects Underlying Insulin Resistance in Human Type 2 Diabetes Using a Disease-in-a- Dish Model
Friday, May 21st, 2021 8:00-9:00 invited overseas speaker	C. Ronald Kahn
Presidential Symposium 1 Thursday, May 20th, 2021 8:30-1 invited overseas speakers	Commemorating 100th anniversary of insulin discovery 1:30 Michael C. Lawrence/ Timothy J. Kieffer
Presidential Symposium 3 Saturday, May 22nd, 2021 8:30-1 invited overseas speaker	Meet the Cell Metabolism Editor Session 1:30 Randy Scott Levinson
Symposium 4 Thursday, May 20th, 2021 8:30-1	Skeletal muscle mass and quality - insulin resistance and sarcopenia
invited overseas speaker	Edward T. Chouchani
Symposium 6	Signaling Pathways for Pancreatic Hormone Secretion: Their Role in Physiology and Pathophysiology
Thursday, May 20th, 2021 8:30-1 invited overseas speakers	1:30 Sebastian Barg/ Matthew Merrins
Symposium 9 Thursday, May 20th, 2021 13:30- invited overseas speaker	Forefront of type 1 diabetes research 16:30 Gerald T. Nepom
Symposium 14	How Far Have We Come in Unraveling the Genetic Predisposition to Diabetes?
Friday, May 21st, 2021 14:20-17: invited overseas speaker	20 Andrew P. Morris
Symposium 16	New development of diabetic nephropathyand diabetic kidney disease (joint symposium of Japanese Society of Nephrology and Japan Council for Promotion of Countermeasures against Diabetes) ??
Friday, May 21st, 2021 14:20-16:	50
invited overseas speaker	Sydney Tang

Symposium 21	Novel Treatment Approaches to Diabetes Using Combination Therapy with Metformin and an Emerging Drug Class
Saturday, May 22nd, 2021 8:30-1 invited overseas speaker	L1:30 Kirsten Raun
Symposium 25	Pathophysiology of Diabetes as Viewed in Light of the Inter-organ Communication Network (ICN) Involved in Metabolic Regulation
Saturday, May 22nd, 2021 8:30-1	11:30
invited overseas speaker	Marcia C. Haigis
Symposium 27	Intestinal metabolic regulation and diabetes - from incretin to intestinal microflora
Saturday, May 22nd, 2021 15:20-	-18:20
invited overseas speakers	Daniel J. Drucker/ Fredrik Bäckhed
The 9th EAST-WEST Forum	Which outcomes are driving the therapeutic perspectives – differences and similarities
Friday, May 21st, 2021 14:20-16:	:50
invited overseas chair and speakers	Apostolos Tsapas/ Bart van der Shueren/ Amanda Adler

Time zone

Japan and the same day with Japan

the day before Japan time

Area		Time zone												time										
Japan	JST	Japan Standard Time	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30
America																								
Eastern	EDT	Eastern Daylight Time	19:00	19:30	20:00	20:30	21:00	21:30	22:00	22:30	23:00	23:30	0:00	0:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30
Central	CDT	Central Daylight Time	18:00	18:30	19:00	19:30	20:00	20:30	21:00	21:30	22:00	22:30	23:00	23:30	0:00	0:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30
Mountain	MDT	Mountain Daylight Time	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30	21:00	21:30	22:00	22:30	23:00	23:30	0:00	0:30	1:00	1:30	2:00	2:30	3:00	3:30
Pcific	PDT	Pacific Daylight Time	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30	21:00	21:30	22:00	22:30	23:00	23:30	0:00	0:30	1:00	1:30	2:00	2:30
Europe																								
Central	CEST	Central European Summer Time	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30
Eastern	EEST	Eastern European Summer Time	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30
UK	BST	British Summer Time	0:00	0:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
Australia	AEDT	Australian Eastern Daylight Time	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30
Hong Kong	нкт	Hong Kong Time	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30

Special Lecture 1

Date 8	& Time (JST)	Friday, May 21st, 2021	8:00-9:00		
	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Kazuyuki Tobe	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	_	_	_
speaker	C. Ronald Kahn	Joslin Diabetes Center, Boston, USA	Defining the Intrinsic Molecular Defects Underlying Insulin Resistance in Human Type 2 Diabetes Using a Disease-in-a-Dish Model	5	_

Presidential Symposium 1	Commemorating 100th anniversary of insulin discovery

Thursday, May 20th, 2021

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Masato Kasuga	The Institute of Medical Science, Asahi Life Foundation	_	-	_
chair	Ryuzo Kawamori	Juntendo Univiersity	_	_	-
speaker	Ryuzo Kawamori	Juntendo Univiersity	Opening remarks	5	-
speaker	Michael C. Lawrence		Unravelling the structural complexity of insulin's engagement with its receptor	35	5
speaker	Shinya Kuroda	Department of Biological Sciences, Graduate School of Science, The University of Tokyo	Trans-omic network of insulin action	35	5
speaker	Timothy J Kieffer	Department of Cellular and Physiological Sciences, School of Biomedical Engineering, Life Sciences Institute, University of British Columbia, Canada	Beta Cell Replacement for Diabetes Using Stem Cell Derived Islets	35	5
speaker	Masato Kasuga	The Institute of Medical Science, Asahi Life Foundation	Wrap up	5	-

Presid	dential Symposium 3	Meet the Cell Metabolism Editor Session			
Date 8	& Time (JST)	Saturday, May 22nd, 2021	8:30-11:30		
	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Takashi Kadowaki	Toranomon Hospital	-	_	-
chair	Kazuyuki Tobe	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	-	_	-
speaker	Randy Scott Levinson	Deputy Editor, Cell Metabolism, USA	How to navigate the publication process at scientific journals	30	
speaker	Tomonobu Kado	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	The role of CD206+ M2-like macrophages in tumor progression	9	5
speaker	Naoki Kobayashi	Diabetes Research Center, National Center for Global Health and Medicine	Hepatic Activin B controls glucose metabolism	9	5
speaker	Takatoshi Sasako	Department of Diabetes and Metabolic Diseases, Graduate School of Medicine, The University of Tokyo	Role of Akt in skeletal muscle in protection against sarcopenia and aging	9	5
speaker	Allah Nawaz	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	Role of immune cells (macrophages) in the recovery of muscle after injury	9	5
speaker	Hein Ko Oo	Kanazawa University	Selenoprotein P-mediated reductive stress impairs cold-induced UCP1 activation and thermogenesis in brown fat	9	5
speaker	Gentaro Egusa	Department of Molecular and Internal Medicin, Graduate School of Biomedical & Health Sicences, Hiroshima University	Selective activation of PPARa maintains thermogenic capacity of beige fat	9	5
speaker	Sachiko Kobayashi	Department of Metabolic Medicine, Osaka University Graduate School of Medicine	Functional Analysis on Favine/CCDC3	9	5
speaker	Takahiro Maeda	Department of Clinical Pharmacology School of Pharmacy and Pharmaceutical Sciences, University of Toyama	Hypothalamic orexin prevents the development of non-alcoholic steatohepatitis and hepatocellular carcinoma in mice fed high fat diet	9	5
speaker	Naoya Murao	Molecular and Metabolic Medicine, Kobe University Graduate School of Medicine	Metabolic Shift to Cytosolic NAD Production Regulates β Cell Function in Aging and Diabetes	9	5

Symposium 4

Skeletal muscle mass and quality - insulin resistance and sarcopenia

Date & Time (JST)

Thursday, May 20th, 2021

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Kohjiro Ueki	Diabetes Research Center, National Center for Global Health and Medicine	_	_	—
chair	Wataru Ogawa	Department of Internal Medicine Division of Diabetes and Endocrinology, Kobe University Graduate School of Medicine	_	_	_
speaker	Edward T Chouchani	Department of Cell Biology Harvard Medical School Dana-Farber Cancer Institute, USA	Mechanisms of metabolite regulation over obesity and systemic inflammation	35	5
speaker	Yu Hirata	Department of Internal Medicine Division of Diabetes and Endocrinology, Kobe University Graduate School of Medicine	Analysis of calcium-dependent signaling involved in regulation of skeletal muscle mass	17	5
speaker	Allah Nawaz	Department of Molecular and Medical Pharmacology, Faculty of Medicine, University of Toyama, Toyama	Mechanism of repair after muscle injury	17	5
speaker	Takeshi Nikawa	The University of Tokushima Institute of Health Biosciences The University of Tokushima Graduate School	Molecular mechanism of muscle atrophy in zero gravity	17	5
speaker	Akiyoshi Uezumi	Tokyo Metropolitan Instiute of Gerontology	Role of mesenchymal progenitor cells (MPC) in muscle maintenance	17	5
speaker	Kunihiro Sakuma	Institute of Liberal Arts, Tokyo Institute of Technology	Molecular mechanism of regulation of qualitative muscle plasticity	17	5
speaker	Kohjiro Ueki	Diabetes Research Center, National Center for Global Health and Medicine	Insulin signaling in skeletal muscle and sarcopenic obesity	17	5

Symposium 6	Signaling Pathways for Pancreatic Hormone Secretion: Their Role in Physiology and
Symposium 6	Pathophysiology

Thursday, May 20th, 2021 8:

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Harumi Takahashi	Kobe University Graduate School of Medicine	_	_	_
chair	Noriko Takahashi	Kitasato University School of Medicine		_	—
speaker	Matthew Merrins	Department of Medicine, Division of Endocrinology, Diabetes & Metabolism, Department of Biomolecular Chemistry University of Wisconsin-Madison School of Medicine and Public Health, USA	Novel roles of pyruvate kinase the insulin secretory pathway	25	5
speaker	Kazuya Yamagata	Department of Medical Biochemistry, Kumamoto University	HNF1a controls gulucagon secretion through modulation of SGLT1	20	5
speaker	Hiroyasu Hatakeyama	Kitasato University School of Medicine	Imaging analysis of granule dynamics within insulin-secreting cells	15	5
speaker	Sebastian Barg	Medical Cell Biology, Uppsala University, Sweden	Exocytosis of insulin and glucagon granules in type-2 diabetes	25	5
speaker	Harumi Takahashi	Kobe University Graduate School of Medicine	Gs/Gq signaling switch in diabetic beta-cells	20	5
speaker	Yoshiko Ikushima	Diabetes Research Center, National Center for Global Health and Medicine	Role of MEK/ERK signal in insulin response to high fat diet	20	5
speaker	Mototsugu Nagao	Department of Endocrinology, Diabetes and Metabolism, Nippon Medical School	Pathogenic role of beta-cell CD36 in the development of T2D with obesity	20	5

Symp	oosium 9	Forefront of type 1 diabetes research			
Date 8	& Time (JST)	Thursday, May 20th, 2021	13:30-16:30		
	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Akihisa Imagawa	Diabetes, Metabolism and Endocrinology, Department of Internal Medicin 1, Osaka Medical College	_	_	
chair	Daisuke Chujo	Center for Clinical Research, Toyama University Hospital	_	_	_
speaker	Gerald T Nepom	Immune Tolerance Network & Benaroya Research Institute Seattle WA, USA	T cells in T1D: pathogenic players and therapeutic targets	30	5
speaker	Hiroshi Kajio	Department of Diabetes, Endocrinology, and Metabolism, National Center for Global Health and Medicine	A comprehensive database of Japanese type 1 diabetic patients: its development and applications for clinical research (TIDE-J) (provisional)	15	5
speaker	Megumi Tachibana	Diabetes, Metabolism and Endocrinology, Department of Internal Medicin 1, Osaka Medical College	An epidemiological investigation into type 1 diabetes occurring after use of anti-PD-1/PD-L1 antibodies (provisional)	15	5
speaker	Yoichii Oikawa	Department of Endocrinology and Diabetes, School of Medicine, Saitama Medical University	Analysis of cellular immune response in type 1 diabetes (ELISPOT) (provisional)	15	5
speaker	Daisuke Chujo	Center for Clinical Research, Toyama University Hospital	Potential for immunological intervention in type 1 diabetes (provisional)	15	5
speaker	Tomoyasu Fukui	Division of Diabetes and Encocrinology, Department of Internal Meidine, Showa University School of Medicine	Update on pancreatic tissue findings in type 1 diabetic patients (provisional)	15	5
speaker	Masahide Hamaguchi	Kyoto Prefectural University of Medicine Graduate School of Medical Science	Efficacy and safety of SGLT2 inhibitors in type 1 diabetic patients (provisional)	15	5

Symposium 14

How Far Have We Come in Unraveling the Genetic Predisposition to Diabetes?

Date & Time (JST)

Friday, May 21st, 2021

14:20-17:20

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Takashi Kadowaki	Toranomon Hospital	_	_	_
chair	Yukinori Okada	Osaka University Graduate School of Medicine	_	_	_
speaker	Gen Tamiya	Tohoku University School of Medicine	Genetic statistics for genomic/personalized medicine (provisional)	20	5
speaker	Ken Suzuki	Department of Statistical Genetics, Osaka University Graduate School of Medicine	Recent trends in genomic research into diabetes (provisional)	20	5
speaker	Daisuke Tanaka	Kyoto University Graduate School of Medicine and Faculty of Medicine	An application of exhaustive next-generation sequencing in Japanese patients with early-onset obesity/diabetes (provisional)	20	5
speaker	Hiroshi Ikegami	Department of Endocrinology, Metaolism and Diabetes, Kindai University Faculty of Medicine	A genetic study of fulminant type 1 diabetes in the Japanese population (provisional)	20	5
speaker	Toshimasa Yamauchi	Department of Diabetes and Metabolic Dieseases, The University of Tokyo	A large-scale diabetes genomic study in Japanese and Asian populations (provisional)	20	5
speaker	Andrew Morris	Centre for Genetics and Genomics Versus Arthritis, Centre for Musculoskeletal Research, The University of Manchester, Manchester, UK	Trans-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation	35	5

	New development of diabetic nephropathyand diabetic kidney disease (joint symposium of
Symposium 16	Japanese Society of Nephrology and Japan Council for Promotion of Countermeasures against
	Diabetes)

Date &	Time	(JST)
--------	------	-------

Friday, May 21st, 2021

14:20-16:50

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Kenichi Shikata	Center for Innovative Clinical Medicine, Okayama University	_	_	_
chair	Masaomi Nangaku	Division of Nephrology and Endocrinology, The University of Tokyo Graduate School of Medicine		_	_
speaker	Hiroki Yokoyama	Jiyugaoka Medical Clinic, Internal Medicine	Renal prognosis in Japanese patients with diabetes: Focus on risk factors and relevant parameters and results from the JDDM (provisional)	20	3
speaker	Miho Shimizu	Department of Nephrology and Laboratory Medicine, Kanazawa University	Analysis of DKD cohorts by renal pathology (provisional)	20	3
speaker	Keizo Kanasaki	Department of Internal Medicine 1, Shimane University Faculty of Medicine	Effects of anti-diabetic agents on nephropathy and evidence: focus on SGLT2 inhibitors and GLP-1 receptor agonists (provisional)	20	3
speaker	Sydney Tang	The University of Hong Kong, Hong Kong	DKD in Asia and the APSN guideline	25	5
speaker	Naoki Kashihara	Department of Nephrology and Hypertension, Kawasaki Medical School	Exploring the status of DKD and its countermeasures using big data (provisional)	20	3
speaker	Akihiro Katayama	Okayama University Hospital Diabetes Center	Developing a program aimed at preventing aggravation of diabetic nephropathy in diabetic patients (provisional)	20	3

	Novel Treatment Approaches to Diabetes Using Combination Therapy with Metformin and an
Symposium 21	Emerging Drug Class

Saturday, May 22nd, 2021

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Yuichiro Yamada	Kansai Electric Power Hospital		_	_
chair	Hideaki Kaneto	Department of Diabetes, Endocrinology and Metabolism, Kawasaki Medical School		_	_
speaker	Kohjiro Ueki	Diabetes Research Center, National Center for Global Health and Medicine	Recent findings on novel anti-diabetic agents such as imeglimin (provisional)	35	5
speaker	Yoshihito Fujita	Department of Diabetes, Endocrinology and Nutrition, Kyoto University Graduate School of Medicine and Faculty of Medicine	Recent findings on old and new anti-diabetic agents such as metformin (provisional)	35	5
speaker	Daisuke Yabe	Department of Diabetes and Endocrinology, Gifu University Graduate School of Medicine	Recent insights into anti-diabetic agents such as GLP-1/GIP receptor agonists	35	5
speaker	Tadahiro Kitamura	Metabolic Signal Research Center, Institute for Molecular and Cellular Regulation, Gunma University	Recent insights into anti-diabetic agents such as glucagon receptor antagonists	35	5
speaker	Kirsten Raun	Global Drug Discovery, Novo Nordisk A/S, Denmark	Development of cagrilintide, a long-acting amylin analogue	35	5

Symposium 25	Pathophysiology of Diabetes as Viewed in Light of the Inter-organ Communication Network
Symposium 25	(ICN) Involved in Metabolic Regulation

Saturday, May 22nd, 2021

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Hideki Katagiri	Department of Metabolism and Diabetes, Tohoku University Graduate School of Medicine	_	_	_
chair	Hironori Waki	Department of Diabetes and Metabolic Dieseases, The University of Tokyo	_	_	_
speaker	Marcia C. Haigis	Department of Cell Biology, Harvard Medical School, Boston, USA	Obesity and Anti-Tumor Immunity	30~40	5~7
speaker	Mari Sato	Hokkaido University Faculty of Dental Medicine, Graduate School of Dental Medicine, School of Medicine	Photosensitivity of opsin in relation to energy metabolism	18~20	4~5
speaker	Ippei Shimizu	Department of Cardiovascular Biology and Medicine, Juntendo University	Heart failure: adipose tissue network and regulation of aging	18~20	4~5
speaker	Kei Takahashi	Department of Metabolism and Diabetes, Tohoku University Graduate School of Medicine	Energy metabolism-regulating signaling from the liver during fasting	18~20	4~5
speaker	Tomonobu Kado	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	Macrophages and malignancy	18~20	4~5
speaker	Kazuhiro Nakamura	Department of Integative Physiology, Nagoya University Graduate School of Medicine	Psychological stress-induced regulation of body temperature	18~20	4~5

Symposium 27

Intestinal metabolic regulation and diabetes - from incretin to intestinal microflora

Date & Time (JST)

Saturday, May 22nd, 2021

15:20-18:20

	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Nobuya Inagaki	Department of Diabetes, Endocrinology and Nutrition, Kyoto University Graduate School of Medicine and Faculty of Medicine	_	_	_
chair	Shiho Fujisaka	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	_	_	-
speaker	Daniel J Drucker	Lunenfeld-Tanenbaum Research Institute, Mount Sina	Incretin-regulation of glucose metabolism	30	10
speaker	Fredrik Bäckhed	The Wallenberg Laboratory Department of Molecular and Clinical Medicine University of Gothenburg, Sweden	Gut microbiota and its effects on type 2 diabetes	30	10
speaker	Wataru Ogawa	Department of Internal Medicine Division of Diabetes and Endocrinology, Kobe University Graduate School of Medicine	Novel anti-diabetic effect of metformin mediated by the intestine	20	5
speaker	Norio Harada	Department of Diabetes, Endocrinology and Nutrition, Kyoto University Graduate School of Medicine and Faculty of Medicine	Role of GIP in obesity and type 3 diabetes	20	5
speaker	Shiho Fujisaka	First Department of Internal Medicine Graduate School of Medicine and Pharmaceutical Sciences for Research University of Toyama	Intestinal microbiota and metabolism	20	5
speaker	Ikuo Kimura	Kyoto University Graduate School of Biostudies	Regulation of glucose metabolism by enterobacterial metabolites	20	5

The 9	The 9th EAST-WEST Forum - differences and similarities				
Date 8	& Time (JST)	Friday, May 21st, 2021	14:20-17:20		
	Name	Affiliation	Lecture title	presentation time (minutes)	Question & Answer time (minutes)
chair	Apostolos Tsapas	Aristotle University Thessaloniki, Greece	-	-	—
chair	Kohjiro Ueki	Diabetes Research Center, National Center for Global Health and Medicine	-	_	_
	Apostolos Tsapas		Openjng remarks	5	-
speaker	Bart van der Shueren	University Hospitals Leuven, and Laboratory of Experimental Medicine and Endocrinology University of Leuven, Belgium	From the view point of regulators	30	_
speaker	Shinobu Uzu	Pharmaceuticals and Medical Devices Agency	From the view point of regulators	30	-
			Discussion	_	20
speaker	Amanada Adler	Diabetes Trials Unit, University of Oxford, UK	From the view point of trialists	30	5
speaker	Mitsuhiko Noda	International University of Health and Welfare Ichikawa Hospital	From the view point of trialists	30	5
			Discussion	-	20
	Apostolos Tsapas/ Kohjiro Ueki		Comments and messages	15	_
	Kohjiro Ueki		Closing Remarks	5	_