Program

Day 1: November 12 (Wed)

Y	Spenning itematika for the ma	in Sessions	
Y	Oral Presentations Chair:	10-01	Shining Light on Life: Designing Emissive Nucleic Acids for Biomolecular Insight
	Yoshiaki Kitamura		Tomotaka Kumagai, ¹ Tatum Melati Andini, ² Hiroshi
	Gifu University		Sugiyama, ³ Soyoung Park ⁴ *
	Silu Olliversity		¹Department of Chemistry, Graduate School of Science, Kyoto
			University, ² Research Institute for Microbial Diseases (RIMD), The
			University of Osaka, ³ Institute for Integrated Cell-Material Sciences
			(iCeMS), Kyoto University, Immunology Frontier Research Center
			(IFReC), The University of Osaka
10:15-10:30		10-02	Crystal structure of 28-silver-atom nanocluster
10.13-10.30		10-02	stabilized by DNA
			Hiroki Kanazawa,¹ Giacomo Romolini,² Cecilia
			Cerretani, ² Jiro Kondo, ^{1*} Tom Vosch ^{2*}
			¹Department of Materials and Life Sciences, Sophia University,
			² Department of Chemistry, University of Copenhagen
10:30-10:45		10-03	Characterization of Glycidamide-adducted Bases
10.30-10.43		10-03	in DNA
			Shigenori Iwai, 1-3* Yumi Miyake, 4 Masayuki Yokoi, 2
			Jun-ichi Akagi ⁵
			¹Graduate School of Engineering Science, The University of
			Osaka, ² Biosignal Research Center, Kobe University, ³ Frontiers of
			Innovative Research in Science and Technology, Konan University,
			⁴ Forefront Research Center, Graduate School of Science, The
			University of Osaka, ⁵ National Institute of Health Sciences
10:45-11:25 I I	nvited Lecture	IL-01	Development of tissue-specific DNA
	Chair:		nanostructures and their applications for drug
	Kenzo Fujimoto		delivery
	Japan Advanced Institute of		Dae-Ro Ahn*
	Science and Technology		Chemical and Biological Integrative Research Center, Korea
	(JAIST)		Institute of Science and Technology (KIST)
·	Break		module of colonic and realmoney (rect)
	Oral Presentations	10-04	Stereocontrolled synthesis of boranophosphate
	Chair:		DNAs by using an oxazaphospholidine approach
	Takehiko Wada		without nucleobase protection
Т			
	Tohoku University		-
	Tohoku University		Tomoki Kameya, Keisuke Sudo, Ryouta Kasahara,
	Tohoku University		Tomoki Kameya, Keisuke Sudo, Ryouta Kasahara, Kiyoshi Kakuta, Kazuki Sato, Takeshi Wada*
	Tohoku University		Tomoki Kameya, Keisuke Sudo, Ryouta Kasahara, Kiyoshi Kakuta, Kazuki Sato, Takeshi Wada* Department of Medicinal and Life Sciences, Faculty of
Т	Tohoku University	10-05	Tomoki Kameya, Keisuke Sudo, Ryouta Kasahara, Kiyoshi Kakuta, Kazuki Sato, Takeshi Wada* Department of Medicinal and Life Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science
	Tohoku University	10-05	Tomoki Kameya, Keisuke Sudo, Ryouta Kasahara, Kiyoshi Kakuta, Kazuki Sato, Takeshi Wada* Department of Medicinal and Life Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science Automated Multi-Trimer Incorporation for
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12:10-12:25 12:25-12:40		10-06	Backbone Conformational Entropy of Nucleic Acid Duplexes as the Fundamental Determinant of their Functions Lutan Liu, 1 Shuntaro Takahashi, 1,2* Marko Trajkovski, 3 Janez Plavec, 3 Naoki Sugimoto 1* 1 Frontier Institute for Biomolecular Engineering Research (FIBER), Konan University, 2 Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, 3 Slovenian NMR Center, National Institute of Chemistry Machine Learning and High-Quality Biophysical Techniques Boost Discovery of SAR-Tractable RNA-Targeted Small Molecules
			Haruhiko Hattori, ¹ Maina Otsu, ¹ Mebuki Narahara, ¹ Koji Imai, ¹ Jiro Kondo, ² Amiu Shino, ¹ Ella Czarina Morishita, ¹ Veritas In Silico Inc., ² Department of Materials and Life Sciences, Faculty of Science and Technology, Sophia University
12:40-14:00	Lunch Break		
14:00-15:30 15:30-16:10	Poster Presentations (1P-n Invited Lecture Chair: Hirohide Saito The University of Tokyo) IL-02	Structural mechanism of bridge editing by IS110 family recombinases Hiroshi Nishimasu ^{1,2} ¹ Structural Biology Division, Research Center for Advanced Science and Technology, The University of Tokyo, ² Department of Chemistry and Biotechnology, Graduate School of Engineering,
16:10-16:25	Oral Presentations Chair: Fumi Nagatsugi Tohoku University	10-08	The University of Tokyo Deciphering chemical cues of 5-formylcytosine in nucleosome repositioning <u>Takafumi Furuhata</u> , Yijing Lin, Genki Hino, Akimitsu Okamoto* Graduate School of Engineering, The University of Tokyo
16:25-16:40		10-09	Sequence-Specific Minor Groove Binders in Labeling and Single-Molecule Analysis of DNA Xiong Chen,¹ Sergey Abakumov,¹ Moa Sandberg Wranne,² Vince Goyvaerts,¹ Milena Helmer Lauer,¹ Jana Rubberecht,¹ Taoufik Rohand,³ Volker Leen,⁴ Fredrik Westerlund,² and Johan Hofkens¹.5,* ¹Department of Chemistry, KU Leuven, ²Department of Life Sciences, Chalmers University of Technology, ³Laboratory of Molecular Chemistry, Materials and Environment (LCM2E), Department of Chemistry, Multidisciplinary Faculty of Nador, University Mohammed I, ⁴Chrometra, ⁵Max Planck Institute for Polymer Research
16:40-16:55		10-10	New Antigene Tool Using Psoralen: Stable Triplex Formation and Photocrosslinking at Challenging Sites Yu Mikame,* Asako Yamayoshi* Department of Life Science and Technology, Institute of Science Tokyo
16:55-17:10	Break		
17:10-17:50	Invited Lecture Chair: Takeshi Wada Tokyo University of Science	IL-03	Conjugation of Small Molecules and Proteins to Oligonucleotides Kurt V. Gothelf ^{1,2*} ¹¡NANO, Aarhus University, ²Department of Chemistry, Aarhus

			University
17:50-18:05	Oral Presentations	10-11	NMR-based rational drug design of a novel
	Chair:		mismatch binding ligand using the intermediate
	Masato Katahira		structure
	Kyoto University		Shuhei Sakurabayashi, 1,2,3 Kyoko Furuita, 2 Takeshi
			Yamada, ³ Noriaki Sugiura, ³ Makoto Nomura, ⁴
			Takanori Nakane, ² Akihiro Kawamoto, ² Genji
			Kurisu, ² Yohei Miyanoiri, ² Toshimichi Fujiwara, ²
			Kazuhiko Nakatani,²* Chojiro Kojima¹,²,⁴*
			¹ Graduate School of Engineering Science, Yokohama National
			University, ² Institute for Protein Research, Osaka University,
			³ Department of Regulatory Bioorganic Chemistry, SANKEN, Osaka
			University, ⁴ Graduate School of Biological Sciences, Nara Institute
			of Science and Technology
18:05-18:20		10-12	A click-to-release strategy in nucleic acids:
			manipulating DNA and RNA structures for
			biological and biomedical applications
			Shiyu Wang, Hisao Saneyoshi, Yan Xu*
			Division of Chemistry, Department of Medical Sciences, Faculty of
			Medicine, University of Miyazaki
18:20-18:35		10-13	DNA Recording by Chemical Synthesis for Highly
			Pure DNA-Encoded N-Methyl Peptide
			Masumi Shirakawa, ¹ Jumpei Morimoto, ¹ Shinsuke Sando ^{1,2,*}
			¹ Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, ² Department of
			Bioengineering, Graduate School of Engineering, The University of
			Tokyo
18:35-18:50		10-14	Polymorphic secondary DNA structures in the
10.55-10.50		10-14	regulatory promotor region of the insulin gene
			affect glucose responsiveness
			<u>Dilek Guneri</u> , ¹ Yiliang Ding, ² Tim Craggs, ³ Steven
			S. Smith, ⁴ Christopher J. Morris, ¹ Zoë A. E. Waller ^{1*}
			¹ School of Pharmacy, University College London, ² John Innes
			Centre, Department of Cell and Developmental Biology, ³ The
			University of Sheffield, Department of Chemistry, ⁴ City of Hope
			National Medical Center, Department of Stem Cell Biology and
			Regenerative Medicine

Day 2: November 13 (Thu)

Chair: Hiromu Kashida Nagoya University		Iniber 13 (111d)		
Hiromu Kashida Nagoya University	10:00-10:15		20-01	Synthesis and preclinical development of
10:15-10:30 Poster Presentations (2P-n) Poster Presentations (2P-n)		Chair:		LAVR-289, a highly potent broad-spectrum
Institute of Organic and Analytical Chemistry (ICOA UMR 7311), University of Orleans		Hiromu Kashida		antiviral acyclic nucleoside phosphonate
10:15-10:30 10:15-10:30 10:15-10:30 20-02 Generalized synthesis and anti-trypanosomal evaluation of 6-functionalized C-nucleoside compound libraries Ewout Van de Velde, 'Anouk Van Hauwermeiren,' Lisa Marriottin,' An Mattheussen,' Natasha Van Pelt,' Guy Caljon,' Serge Van Calenbergh' 'Ghent University, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory of Medical Chemistry, *University of Antwerp, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory of Microbiology, Bransstology and Hyglene. 20-03 Evaluation of RNA-binding property of amiloride using a multiplexed RNA structure library Kosuke Tsuzuki,' Kazumitsu Onizuka,' 2'* Ryosuke Nagasawa,' 2 Emi Miyashita,' Kaoru R. Komatsu,' Momo Okada,' Jino Kondo,' Hirohide Saito,' Fumi Nagatsugil'. 2' "Imprat. Tokku University, "Graduate School of Science, Tohok University," Cipa. Assay, "Cipa. Kyoto University, "Graduate School of Science, Tohok University," Cipa. Assay, "Cipa. Assay, "Cipa. Assay," Cipa. Assay, "Cipa. Assay," The University of Electro-Communications (UEC), "Institute for Advanced Science, UEC 11:00-11:15 Break		Nagoya University		Luigi A Agrofoglio
10:15-10:30 20-02 Generalized synthesis and anti-trypanosomal evaluation of 6-functionalized C-nucleoside compound libraries				Institute of Organic and Analytical Chemistry (ICOA UMR 7311),
evaluation of 6-functionalized C-nucleoside compound libraries Evout Van de Veldes 1 Anouk Van Hauwermeiren, 1 Lisa Marriottini, 1 An Mattheussen, 2 Natasha Van Pelt, 2 Guy Caljon, 2 Serge Van Calenbergh 1 Genturvently, Faculty of Pharmaceutical Sciences, Laboratory of Microbiology, Parasitology and Hygiene.				University of Orleans
Compound libraries Compound libraries Ewout Van de Velde, 'Anouk Van Hauwermeiren,' Lisa Marriottini, 'An Mattheussen,' Natasha Van Pelt,' Guy Caljon,' Serge Van Calenbergh' 'Ghent University, 'Faculty of Pharmaceutical Sciences, Laborator for Medicinal Chemistry, 'University of Antwerp, Faculty of Pharmaceutical Biomedical and Veterianay Sciences, Laboratory of Microbiology, Parasitology and Hygiene.	10:15-10:30		20-02	Generalized synthesis and anti-trypanosomal
Ewout Van de Velde, 'Anouk Van Hauwermeiren,' Lisa Marriottini,' An Mattheussen,' Natasha Van Pelt,' Guy Caljon,' Serge Van Calenbergh' 'Ghent University, Faculty of Pharmaceutical Sciences, Laborator for Medicinal Chemistry, 'University of Antwerp, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, Laborator of Microbiology, Parastology and Hygiene. 20-03				evaluation of 6-functionalized C-nucleoside
Lisa Marriottini,¹ An Mattheussen,² Natasha Van Pelt,² Guy Caljon,² Serge Van Calenbergh¹ (Shent University, Faculty of Pharmaceulical Sciences, Laborator for Medicinal Chemistry, ¹University of Antwerp, Faculty of Pharmaceulical Biomedical and Veterinary Sciences, Laboratory of Microbiology, Parasitology and Hygiene. 20-03 Evaluation of RNA-binding property of amiloride using a multiplexed RNA structure library Kosuke Tsuzuki,¹² Kazumitsu Onizuka,¹²² Ryosuke Nagasawa,²² Emil Myashita,³ Kaoru R. Komatsu,³ Momo Okada,⁴ Jiro Kondo,⁴ Hirohide Saito,³ Fumi Nagatsugi¹²² (IMRAM, Tohoku University, 'Graduate School of Science, Tohoku University, 'Grida, Kyclo University, 'Operatment of Materials and Life Sciences, Sophia University 'Operatment of Materials and Life Sciences, Sophia University Appartment of Materials and Life Sciences, Sophia University Appartment of Engineering, The University of Informatics and Engineering, The University of Informatics and Engineering, The University of Electro-Communications (UEC), ¹Institute for Advanced Science, UEC 11:00-11:15 Break				compound libraries
Pelt,² Guy Caljon,² Serge Van Calenbergh¹				Ewout Van de Velde, ¹ Anouk Van Hauwermeiren, ¹
Cinent University, Faculty of Pharmaceutical Sciences, Laborator for Medicinal Chemistry, *University of Antwerp, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory of Microbiology, Parasitology and Hygiene. 20-03				Lisa Marriottini, ¹ An Mattheussen, ² Natasha Van
Total Medicinal Chemistry, 3-University of Antwerp, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory of Microbiology, Parasitology and Hygiene. 20-03 Evaluation of RNA-binding property of amilloride using a multiplexed RNA structure library Kosuke Fusucuki, 1-2 Kazumitsu Onizuka, 1-2 Ryosuke Nagasawa, 1-2 Emi Miyashita, 3 Kaoru R. Komatsu, 3 Momo Okada, 4 Jiro Kondo, 4 Hirohide Saito, 3 Fumi Nagatsugi ^{1,2} "Image Note University, 7-Graduate School of Science, Tohoku University, 7-Graduate School of Covalent DNA Aptamers (ARCaDia) Masumi Takit 1-2 "Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), 3 Irstitute for Advanced Science, UEC 11:00-11:15 Break				Pelt, ² Guy Caljon, ² Serge Van Calenbergh ^{1*}
Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory of Microbiology, Parasitology and Hyglene.				¹ Ghent University, Faculty of Pharmaceutical Sciences, Laboratory
10:30-10:45				for Medicinal Chemistry, ² University of Antwerp, Faculty of
20-03 Evaluation of RNA-binding property of amiloride using a multiplexed RNA structure library Kosuke Tsuzuki, 1-2 Kazumitsu Onizuka, 1-2* Ryosuke Nagasawa, 1-2 Emi Miyashita, 3 Kaoru R. Komatsu, 3 Momo Okada, 4 Jiro Kondo, 4 Hirohide Saito, 3 Fumi Nagatsugi 1-2* "IMRAM, Tohoku University, **CiRA, Kyoto University, **CiRA, Kyoto University, **CiRA, Kyoto University, **Department of Materials and Life Sciences, Sophia University **Department of Materials and Life Sciences, Sophia University **Department of Materials and Life Sciences, Sophia University **Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), **Institute for Advanced Science, UEC** 11:00-11:15 Break				Pharmaceutical, Biomedical and Veterinary Sciences, Laboratory
using a multiplexed RNA structure library Kosuke Tsuzuki, ^{1,2} Kazumitsu Onizuka, ^{1,2} * Ryosuke Nagasawa, ^{1,2} Emi Mijashita, ³ Kaoru R. Komatsu, ³ Momo Okada, ⁴ Jiro Kondo, ⁴ Hirohide Saito, ⁵ Fumi Nagatsugi ^{1,2} * "IMRAM, Tohoku University, ² Graduate School of Science, Tohoku University, ² CiRA, Kyoto University, ² Gepartment of Materials and Life Sciences, Sophia University, ² Gepartment of Materials and Life Sciences, Sophia University, ² Gepartment of Materials and Life Sciences, Sophia University, ² Gepartment of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), ² Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture Chair: Naoki Sugimoto Konan University IL-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				of Microbiology, Parasitology and Hygiene.
Kosuke Tsuzuki, 1-2 Kazumitsu Onizuka, 1-2	10:30-10:45	1	20-03	Evaluation of RNA-binding property of amiloride
Ryosuke Nagasawa, 1-2 Emi Miyashita, 3 Kaoru R. Komatsu, 3 Momo Okada, 4 Jiro Kondo, 4 Hirohide Saito, 3 Fumi Nagatsugi 1-2" "IMRAM, Tohoku University, 4 Carduate School of Science, Sophie University 20-04				using a multiplexed RNA structure library
Komatsu,3 Momo Okada,4 Jiro Kondo,4 Hirohide Saito,3 Fumi Nagatsugi1.2* "IMRAM, Tohoku University, "Ciraduate School of Science, Tohoku University, "Ciraduate School of Informatics and Engineering Science, The Graduate School of Informatics and Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), "Institute for Advanced Science, UEC 11:00-11:15 Break				Kosuke Tsuzuki, ^{1,2} Kazumitsu Onizuka, ^{1,2} *
Saito, 3 Fumi Nagatsugi1.2" "IMRAM, Tohoku University, 2 Graduate School of Science, Tohoku University, 2 Graduate School of Materials and Life Sciences, Sophia University Affinity/Reactivity-based Co-selection of Covalent DNA Aptamers (ARCaDia) Masumi Taki1 2" "Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), 2 Institute for Advanced Science, UEC				Ryosuke Nagasawa, ^{1,2} Emi Miyashita, ³ Kaoru R.
Saito, 3 Fumi Nagatsugi1.2" "IMRAM, Tohoku University, 2 Graduate School of Science, Tohoku University, 2 Graduate School of Materials and Life Sciences, Sophia University Affinity/Reactivity-based Co-selection of Covalent DNA Aptamers (ARCaDia) Masumi Taki1 2" "Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), 2 Institute for Advanced Science, UEC				Komatsu, ³ Momo Okada, ⁴ Jiro Kondo, ⁴ Hirohide
10:45-11:00 10:45-11:00 10:45-11:00 20-04 Affinity/Reactivity-based Co-selection of Covalent DNA Aptamers (ARCaDia) Masumi Taki¹²² 'Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), ²Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) 11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University IL-05 Invited Lecture Chair: Naoki Sugimoto Konan University IL-05 Invited Lecture Chair: Naoki Sugimoto Konan University Lunch Break Lunch Break Lunch Break 12:35-14:00 Lunch Break Lunch Break Lunch Break Poster Presentations (2P-n)				
Life Sciences, Sophia University 20-04 Affinity/Reactivity-based Co-selection of Covalent DNA Aptamers (ARCaDia) Masumi Taki ^{1,2*} Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Divited Lecture Invited Lectu				¹ IMRAM, Tohoku University, ² Graduate School of Science, Tohoku
10:45-11:00 20-04 Affinity/Reactivity-based Co-selection of Covalent DNA Aptamers (ARCaDia) Masumi Taki¹¹²² ¹Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), ²Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture Chair: Vanisha Walunj,¹ Evgeniia Dorinova,¹ Tina Jungnickel,¹ Claudia Höbartner¹²²² ¹Institute of Organic Chemistry, University Würzburg 11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University IL-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi¹ State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				University, ³ CiRA, Kyoto University, ⁴ Department of Materials and
DNA Aptamers (ARCaDia) Masumi Taki ^{1,2*} ¹Department of Engineering, Cheuce, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), ²Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture III-04 Molecular architectures, mechanisms and applications of RNA-alkylating ribozymes Hsuan-Ai Chen, ¹ Takumi Okuda,¹ Carolin Scheitl,¹ Manisha Walunj,¹ Evgeniia Dorinova,¹ Tina Jungnickel,¹ Claudia Höbartner¹.².² ¹Institute of Organic Chemistry, University Würzburg, ²Center for Nanosystems Chemistry, University Würzburg 11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University III-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				Life Sciences, Sophia University
DNA Aptamers (ARCaDia) Masumi Taki ^{1,2*} ¹Department of Engineering, The University of Electro-Communications (UEC). ²Institute for Advanced Science, UEC 11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture IIL-04 Molecular architectures, mechanisms and applications of RNA-alkylating ribozymes Hsuan-Ai Chen,¹ Takumi Okuda,¹ Carolin Scheitl,¹ Manisha Walunj,¹ Evgeniia Dorinova,¹ Tina Jungnickel,¹ Claudia Höbartne¹.¹².² ¹Institute of Organic Chemistry, University Würzburg. ²Center for Nanosystems Chemistry, University Würzburg 11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University IL-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)	10:45-11:00		20-04	Affinity/Reactivity-based Co-selection of Covalent
Masumi Taki ^{1,2*} 'Department of Engineering Science, The Graduate School of Informatics and Engineering, The University of Electro-Communications (UEC), 'Institute for Advanced Science, UEC 11:00-11:15				DNA Aptamers (ARCaDia)
11:00-11:15 Break Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture Chair: Yandi Sugimoto Konan University Invited Lecture Chair: Naoki Sugimoto Konan University Lunch Break 12:35-14:00 Lunch Break IL-04 IL-04 IL-04 IL-04 Molecular architectures, mechanisms and applications of RNA-alkylating ribozymes Hsuan-Ai Chen,¹ Takumi Okuda,¹ Carolin Scheitl,¹ Manisha Walunj,¹ Evgeniia Dorinova,¹ Tina Jungnickel,¹ Claudia Höbartner¹.²².⁴ ¹Institute of Organic Chemistry, University Würzburg, ²Center for Nanosystems Chemistry, University Würzburg IL-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi¹ State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				
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11:00-11:15 Break 11:15-11:55 Invited Lecture Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Invited Lecture Chair: Valuations of RNA-alkylating ribozymes Hsuan-Ai Chen,¹ Takumi Okuda,¹ Carolin Scheitl,¹ Manisha Walunj,¹ Evgeniia Dorinova,¹ Tina Jungnickel,¹ Claudia Höbartner¹.².² ¹Institute of Organic Chemistry, University Würzburg, ²Center for Nanosystems Chemistry, University Würzburg II:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				
11:00-11:15 Break				
Chair: Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Institute of Organic Chemistry, University Würzburg, ² Center for Nanosystems Chemistry, University Würzburg IL-05 Genome Therapy: A New Approach for Tumor Growth Inhibition Zhen Xi* State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)	11:00-11:15	Break	l	
Yohei Yokobayashi Okinawa Institute of Science and Technology (OIST) Institute of Organic Chemistry, University Würzburg, ² Center for Nanosystems Chemistry, University Würzburg IL-05 Genome Therapy: A New Approach for Tumor Chair: Naoki Sugimoto Konan University Konan University IL-05 Easte Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)	11:15-11:55	Invited Lecture	IL-04	Molecular architectures, mechanisms and
Okinawa Institute of Science and Technology (OIST) Institute of Organic Chemistry, University Würzburg, ² Center for Nanosystems Chemistry, University Würzburg Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		Chair:		applications of RNA-alkylating ribozymes
and Technology (OIST) Jungnickel,¹ Claudia Höbartner¹.².²* ¹Institute of Organic Chemistry, University Würzburg, ²Center for Nanosystems Chemistry, University Würzburg II:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		Yohei Yokobayashi		Hsuan-Ai Chen, ¹ Takumi Okuda, ¹ Carolin Scheitl, ¹
and Technology (OIST) Jungnickel,¹ Claudia Höbartner¹.².²* ¹Institute of Organic Chemistry, University Würzburg, ²Center for Nanosystems Chemistry, University Würzburg II:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		Okinawa Institute of Science		Manisha Walunj,¹ Evgeniia Dorinova,¹ Tina
Nanosystems Chemistry, University Würzburg 11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		and Technology (OIST)		Jungnickel, ¹ Claudia Höbartner ^{1,2,*}
11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				¹ Institute of Organic Chemistry, University Würzburg, ² Center for
11:55-12:35 Invited Lecture Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				Nanosystems Chemistry, University Würzburg
Chair: Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)	11:55-12:35	Invited Lecture	IL-05	
Naoki Sugimoto Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		Chair:		1
Konan University State Key Laboratory of Elemento-Organic Chemistry and Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		Naoki Sugimoto		Zhen Xi*
Department of Chemical Biology, National Pesticide Engineering Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)		_		
Research Center, Collaborative Innovation Center of Chemical Science and Engineering, College of Chemistry, Nankai University 12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				
Science and Engineering, College of Chemistry, Nankai University 12:35-14:00				
12:35-14:00 Lunch Break 14:00-15:30 Poster Presentations (2P-n)				
14:00-15:30 Poster Presentations (2P-n)	12:35-14:00	Lunch Break		and any and any
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15.50-15.45 Oral Presentations 20-05 Studies on the Effects of Junction Positions and	15:30-15:45	Oral Presentations	20-05	Studies on the Effects of Junction Positions and
Chair: Compositions of Chimeric Artificial Nucleic Acids		Chair:		Compositions of Chimeric Artificial Nucleic Acids
Hisae Tateishi-Karimata (CANAs) on Complex Stabilities, Cleavage		Hisae Tateishi-Karimata		(CANAs) on Complex Stabilities, Cleavage

16:00-16:15 16:00-16:15 16:00-16:15 20-07 Chemically Modified mRNA based on Complete Chemical Synthesis for Enhanced Translation and Stability Yasuaki Kimura, ** Hiroto Iwai, ** Masakazu Honma, ** Hiroki Yamada, ** Kosuke Nakamoto, ** Masahito Inagaki, ** Fumitaka Hashiya, ** Naoko Abe, ** Junichiro Yamamoto, ** Hiroshi Abe, ** ** 'Graduate School of Science, Nagoya University ** Hiroshi Abe, ** 'Graduate School of Science, Nagoya University ** Research Unit, Research Division, Kyowa Kinin Co., Ltd. ** Institute for Glyco-core Research Division, Kyowa Kinin Co., Ltd. ** Institute for Glyco-core Research Division, Kyowa Kinin Co., Ltd. ** Institute for Glyco-core Research (IGCORE), Nagoya University ** Research Unit, Research Uni	15:45-16:00	Konan University	20-06	Efficiency with Target RNA, and Functions in Cell Experiments Takehiko Wada, 1,2 Bui Hieu Trong,1 Kazutoshi Fujita,1 Nozomu Ishiwata,1 Masahito Inagaki,3 Hironori Hayashi,4,5 Mitsuyo Matsumoto,1 Yasuyuki Araki,1 Eiichi Kodama,4,5 1 Institute of Multidisciplinary Research for Advanced Materials (IMRAM), Tohoku University, 2 The Advanced Research Center for Innovations in Next-Generation Medicine (INGEM), Tohoku University, 3 Graduate School of Science, Nagoya University, 4 IRIDeS, Tohoku University, 5 Graduate School of Medicine, Tohoku University Nonenzymatic Primer Extension of Acyclic Xeno Nucleic Acids Using Chemical Ligation
Chemical Synthesis for Enhanced Translation and Stability Yasuaki Kimura, '' Hiroto Iwai, 2 Masakazu Honma, 2 Hiroki Yamada, 2 Kosuke Nakamoto, 1 Masahito Inagaki, 1 Fumitaka Hashiya, 1 Naoko Abe, 1 Junichiro Yamamoto, 2 Hiroshi Yamamoto Yokisualize Nonsense-Mediated mRNA Decay Md. Dobirul Islam, 1 Noriyuki Kodera, 2 Hikaru Ichida, 2 Hiroki Konno, 2 Hanae Sato¹ '' ILife science, Nanometrology, Nano Life Science Institute (WPI-NanoLSI), Kanazawa University 16:30-17:30 JASNAC General Meeting 17:30-18:00 Special Lecture 1 Chair: Toshihiro Ihara Kumamoto University Special Lecture 2 Chemical biology research on dynamic nucleic acid structures and small molecule interactions Kazuhiko Nakatani' SANKEN, The University of Osaka 18:30-19:00 Special Lecture 3 Chair: Akimitsu Okamoto University of Tokyo Special Lecture 3 SL-03 Functional fusion of nucleic acids and peptides towards regulation of genetic expression Masayuki Fujii' Graduate School of Integrated Science and Technology, Nagasaki University 19:00-19:15 Transit				Keiji Murayama, 1* Hikari Okita, 2 Hiroyuki Asanuma 1* ¹Graduate School of Engineering, Nagoya, ²Institute of Integrated
Inagaki,¹ Fumitaka Hashiya,¹ Naoko Abe,¹ Junichiro Yamamoto,² Hiroshi Abe,¹³² ¹Graduate School of Science, Nagoya University, ²Research Unit, Research (IGCORE), Nagoya University, ²Research Unit, Research (IGCORE), Nagoya University 20-08 Light-Inducible Single-Molecule Platform to Visualize Nonsense-Mediated mRNA Decay Md. Dobirul Islam,¹ Noriyuki Kodera,² Hikaru Ichida,² Hiroki Konno,² Hanae Sato¹ ¹Life science, ²Nanometrology, Nano Life Science Institute (WPI-NanoLSI), Kanazawa University 16:30-17:30 JASNAC General Meeting 17:30-18:00 Special Lecture 1 Chair: Toshihiro Ihara Kumamoto University Special Lecture 2 Chair: Akimitsu Okamoto University of Tokyo Special Lecture 3 Chair: Asako Yamayoshi Institute of Science Tokyo Institute of Science Tokyo Institute of Science Tokyo Institute of Science and Technology, Nagasaki University Transit	16:00-16:15		20-07	Chemical Synthesis for Enhanced Translation and Stability <u>Yasuaki Kimura</u> , 1* Hiroto Iwai, 2 Masakazu Honma, 2
16:15-16:30 20-08 Light-Inducible Single-Molecule Platform to Visualize Nonsense-Mediated mRNA Decay Md. Dobirul Islam,¹ Noriyuki Kodera,² Hikaru Ichida,² Hiroki Konno,² Hanae Sato¹¹ ¹Life science, ²Nanometrology, Nano Life Science Institute (WPI-NanoLSI), Kanazawa University 16:30-17:30 JASNAC General Meeting 17:30-18:00 Special Lecture 1 Chair:				Inagaki, ¹ Fumitaka Hashiya, ¹ Naoko Abe, ¹ Junichiro Yamamoto, ^{2*} Hiroshi Abe, ^{1,3*} ¹Graduate School of Science, Nagoya University, ²Research Unit, Research Division, Kyowa Kirin Co., Ltd, ³Institute for Glyco-core
17:30-18:00 Special Lecture 1 Chair: Toshihiro Ihara Kumamoto University SL-02 Chemical biology research on dynamic nucleic acid structures and small molecule interactions Akimitsu Okamoto University of Tokyo Special Lecture 3 Chair: Asako Yamayoshi Institute of Science Tokyo Special Lecture 1 SL-02 Chemical biology research on dynamic nucleic acid structures and small molecule interactions Kazuhiko Nakatani* SANKEN, The University of Osaka Functional fusion of nucleic acids and peptides towards regulation of genetic expression Masayuki Fujii* Graduate School of Integrated Science and Technology, Nagasaki University 19:00-19:15 Transit	16:15-16:30		20-08	Light-Inducible Single-Molecule Platform to Visualize Nonsense-Mediated mRNA Decay Md. Dobirul Islam, ¹ Noriyuki Kodera, ² Hikaru Ichida, ² Hiroki Konno, ² Hanae Sato ^{1*} ¹Life science, ²Nanometrology, Nano Life Science Institute
17:30-18:00 Special Lecture 1 Chair: Toshihiro Ihara Kumamoto University SL-02 Chemical biology research on dynamic nucleic acid structures and small molecule interactions Akimitsu Okamoto University of Tokyo Special Lecture 3 Chair: Asako Yamayoshi Institute of Science Tokyo Special Lecture 1 SL-02 Chemical biology research on dynamic nucleic acid structures and small molecule interactions Kazuhiko Nakatani* SANKEN, The University of Osaka Functional fusion of nucleic acids and peptides towards regulation of genetic expression Masayuki Fujii* Graduate School of Integrated Science and Technology, Nagasaki University 19:00-19:15 Transit	16:30-17:30	JASNAC General Meeting		
Chair: Akimitsu Okamoto University of Tokyo Special Lecture 3 Chair: Asako Yamayoshi Institute of Science Tokyo Transit acid structures and small molecule interactions Kazuhiko Nakatani* SANKEN, The University of Osaka Functional fusion of nucleic acids and peptides towards regulation of genetic expression Masayuki Fujii* Graduate School of Integrated Science and Technology, Nagasaki University		Special Lecture 1 Chair: Toshihiro Ihara	SL-01	threading intercalator Shigeori Takenaka*
Chair: Asako Yamayoshi Institute of Science Tokyo 19:00-19:15 Transit towards regulation of genetic expression Masayuki Fujii* Graduate School of Integrated Science and Technology, Nagasaki University	18:00-18:30	Special Lecture 2 Chair: Akimitsu Okamoto	SL-02	acid structures and small molecule interactions Kazuhiko Nakatani
19:00-19:15	18:30-19:00	Special Lecture 3 Chair: Asako Yamayoshi	SL-03	Functional fusion of nucleic acids and peptides towards regulation of genetic expression Masayuki Fujii* Graduate School of Integrated Science and Technology, Nagasaki
		<u> </u>	Crowne Plaza	a Hotel

Day 3: November 14 (Fri)

		20.51	
9:45 -9:55	Oral Presentations	30-01	Crystallographic capturing of the intermediate
	Chair:		state of the hOGG1 mutant-DNA complex:
	Shigenori Iwai		Mechanistic insight
	University of Osaka		Yoshiyuki Tanaka,1* Masayuki Morikawa,1
			Yoshikazu Hattori, ¹ Kiriko Zaha, ¹ Mizuki Fujimoto, ¹
			Kota Sakano,¹ Katsuyuki Nakashima,¹ Yasuko
			Okamoto,¹ Vladimír Sychrovský,² Mami Shimizu,³ Masaki Unno³
			¹ Faculty of Pharmaceutical Sciences, Tokushima Bunri University,
			² Institute of Organic Chemistry and Biochemistry, Czech Academy
			of Sciences, ³ Graduate School of Science and Engineering, Ibaraki
			University
9:55-10:10		30-02	Damaged DNA in Food Finds Its Way to Human
			Genome
			Yong Woong Jun*
			Department of Chemistry, Korea Advanced Institute of Science and
			Technology (KAIST)
10:10-10:25	Oral Presentations	30-03	An Oligonucleotide Anchor Platform for Rapid
	Chair:		Exosome Modification: Dual-Function Uptake
	Kiyohiko Kawai		Control & Enhanced Targeting
	Institute of Science Tokyo		Christopher Blum, <u>Subha R. Das</u> *
			Department of Chemistry and Center for Nucleic Acids Science &
			Technology, Carnegie Mellon University
10:25-10:40		30-04	The effect of negative supercoiling DNA on the
			phase separation
			Ryusei Senda, ¹ Ryu Tashiro, ² Satoru Nagatoishi, ³
			Kouhei Tsumoto, ³ Shinnosuke Kawai, ^{1*} Takanori
			Oyoshi ^{1,4,5*}
			¹ Graduate School of Integrated Science and Technology, Shizuoka
			University, ² Faculty of Pharmaceutical Sciences, Suzuka University
			of Medical Science, ³ Graduate School of Engineering, The
			University of Tokyo, ⁴ Graduate School of Science and Technology,
			Shizuoka University, ⁵ Research Institute of Green Science and
			Technology, Shizuoka University
10:40-10:55		30-05	Structural change of regenerated DNA fibers
			derived from salmon milt during uniaxial
			stretching
			Hayato Nakamura and Kenjiro Yazawa*
			Division of Textile Science, Graduate School of Science and
			Technology, Shinshu University
10:55-11:10		30-06	Reversible control of nucleic acid structures and
			functions <i>via</i> host-guest interaction
			Hidenori Okamura, 1,2,3* Takeyuki Yao, 2,3 Yosuke
			Taniguchi, ¹ Fumi Nagatsugi ^{2,3} *
			¹ Faculty of Medicine, Dentistry and Pharmaceutical Sciences,
			Okayama University, ² Institute of Multidisciplinary Research for
			Advanced Materials, Tohoku University, ³ Department of Chemistry,
			Graduate School of Science, Tohoku University
11:10-11:25	Break		S. dadate Serios of Science, follows offiverency
11:25-11:40	Oral Presentations	30-07	Can left-handed triplex structure form involving a
11.20-11.40	Chair:	30-07	Z-DNA duplex and a third ssDNA strand?
			Mingqing Zhong, ¹ Xiaoge Ding, ¹ Shiyuan Shi, ¹
	Daisuke Miyoshi		mingqing Zhong, Alaoge Ding, Shiyuan Sill,

	Konan University		Mengqin Liu, ¹ Shuang Wang, ^{1,2} Ran An, ^{1,2} <u>Xingguo</u>
	-		Liang ^{1,2*}
			¹ State Key Laboratory of Marine Food Processing and Safety
			Control, College of Food Science and Engineering, Ocean
			University of China, ² Laboratory for Marine Drugs and Bioproducts,
			Qingdao Marine Science and Technology Center
11:40-11:55		30-08	Split G-triplex/hemin complex as a novel split
			DNAzyme with peroxidase-like activity for nucleic
			acid detection
			Hidetaka Torigoe,* Ryo Akiba
			Graduate School of Science, Tokyo University of Science
11:55-12:10		30-09	Structural insights into a DNA–RNA hybrid
			G-quadruplex and its interactions with ligands
			Yudai Yamaoki, ^{1,2} Kensei Horie, ^{1,2} Taisei
			Masunaga, ^{1,2} Chihiro Nakayama, ^{1,2} Keiko Kondo, ^{1,2}
			Takashi Nagata, ^{1,2} Masato Katahira, ^{1,2*}
			¹ Institute of Advanced Energy, and ² Graduate School of Energy
			Science, Kyoto University
12:10-12:25		30-10	AND-Gated Functional DNA for Plasma Membrane
			Recruitment: Activated by Mildly Acidic pH and
			Oxidative Stress
			<u>Tatsuya Nishihara</u> ,* Yui Kurozumi, Risa Yamada,
			Daichi Oka, Kazuhito Tanabe [*]
			College of Science and Engineering, Aoyama Gakuin University
12:25-12:30	Closing Remarks for the Mai	in Sessions	