

IIAS Research Conference 2014



Chromatin Decoding

May 12 (Mon.) – 15 (Thu.), 2014

International Institute for Advanced Studies, Kyoto, Japan

Organizer : **Fuyuki Ishikawa** (Kyoto University)
Kosuke Morikawa (International Institute for Advanced Studies)

Language : **English (No simultaneous interpreter)**

Registration : **Free, advance registration required**

Call for Poster Presenters and Discussants

Those who are interested should apply via our website.
(<http://www.ias.or.jp/>)

INVITED SPEAKERS

John Abelson (University of California San Francisco/
George Beadle Emeritus Professor, Caltech, USA)

Mariko Ariyoshi (Kyoto University)

Thomas R. Cech (University of Colorado Boulder, USA)

Andre Fischer (University Medical Center Göttingen, German Center
for Neurodegenerative Diseases (DZNE), Germany)

Tatsuo Fukagawa (National Institute of Genetics)

Christine Guthrie (University of California San Francisco, USA)

Yasushi Hiraoka (Osaka University)

Shunsuke Ishii (RIKEN)

Atsushi Iwama (Chiba University)

Ryoichiro Kageyama (Kyoto University)

Hitoshi Kurumizaka (Waseda University)

Wei Li (Baylor College of Medicine, USA)

Mathieu Lupien (The Princess Margaret Cancer Centre/University of Toronto, Canada)

Hozumi Motohashi (Tohoku University)

Kenji Murakami (Stanford University Medical School, USA)

Yota Murakami (Hokkaido University)

Kiyoshi Nagai (MRC LMB, Cambridge, UK)

Makoto Nakanishi (Nagoya City University)

Jun-ichi Nakayama (Nagoya City University)

Ken-ichi Noma (The Wistar Institute, USA)

Kunihiro Ohta (The University of Tokyo)

Timothy J. Richmond (ETH Zurich, Switzerland)

Yang Shi (Harvard Medical School Boston Children's Hospital, USA)

Yoichi Shinkai (RIKEN)

Mikiko Shiomi (The University of Tokyo)

Katsuhiko Shirahige (The University of Tokyo)

Yi Zhang (Harvard Medical School Boston Children's Hospital, USA)

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Kyoto Prefecture / Kansai Economic Federation / Public Foundation of Kansai Research Institute /

Japan Society for Cell Biology / The Japanese Biochemical Society / The Molecular Biology Society of Japan / The RNA Society of Japan

Grant-in-Aid for Scientific Research on Innovative Areas

Chromatin Structure, Dynamics, and Function / Coupling of replication, repair and transcription, and their common mechanism of chromatin remodeling

Transcription Cycle / Functions of Non-coding DNA Region for Genome Integrity

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国際高等研究所
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30th
Anniversary

Chromatin Decoding

	Monday, May 12	Tuesday, May 13	Wednesday, May 14	Thursday, May 15
9:00				
10:00		Session 2 "Structural aspects of chromatin decoding" Chair: Kosuke Morikawa (IIAS) Kiyoshi Nagai Mariko Ariyoshi Kenji Murakami Hitoshi Kurumizaka	Session 4 "Chromatin-RNA interface" Chair: Hiroshi Sakamoto (Kobe Univ.) Mikiko Shiomi Yasushi Hiraoka Christine Guthrie	Session 7 "Extended phenotypes of chromatin" Chair: Kunihiro Ohta (Univ. of Tokyo) Andre Fischer Atsushi Iwama Wei Li Ryoichiro Kageyama
11:00				
12:00	Registration	Plenary Talk 2 Timothy J. Richmond	Plenary Talk 3 John Abelson	
13:00		LUNCH	LUNCH	
14:00	Welcome Address / Yoshio Tateishi (IIAS) Opening Remarks / Yoshiro Shimura (IIAS) Overview of the International Conference Fuyuki Ishikawa (Kyoto Univ.)			Session 5 "Molecular decoding 1" Chair: Yuki Okada (Univ. of Tokyo) Yi Zhang Yoichi Shinkai Makoto Nakanishi
15:00	Session 1 "Telomere and centromere chromatin" Chair: Hiroshi Masumoto (Kazusa DNA Research Institute) Fuyuki Ishikawa Tatsuo Fukagawa Katsuhiko Shirahige	Session 3 "Transcriptional decoding of chromatin" Chair: Kazuhiko Igarashi (Tohoku Univ.) Yang Shi Shunsuke Ishii Mathieu Lupien Hozumi Motohashi Kunihiro Ohta	Short talk 1	
16:00	Plenary Talk 1 Thomas R. Cech		Coffee Break	Session 6 "Molecular decoding 2" Chair: Makoto Tachibana (Univ. Tokushima) Jun-ichi Nakayama Yota Murakami Ken-ichi Noma
17:00	Welcome Reception	Poster Presentation	Short talk 2	
18:00				
19:00				
20:00				

The program is subject to change.

開催趣旨

高等研カンファレンスは、一方向でない密度の高い議論を主体とする「場」を提供することにより、広く研究者、学界等に向かって、新たな学術研究が展開する可能性や、我が国の学術研究の将来のために重要な問題を提示することを目指しています。

現在、ゲノムDNA配列の全解読、クロマチンを構成する蛋白質の同定、DNAや蛋白質の様々な化学修飾、クロマチン間の相互作用など、クロマチン動態に関するおびただしい情報が集積しつつあります。ゲノムは、それぞれの生物種に特徴的な個体の機能構造、生殖・発生・成熟・老化などの個体レベルのライフヒストリーを支配しており、その結果として現今の生物種が存在します。換言すれば、ゲノムには進化を通じて築かれた設計図の変化の記録がコードされています。次世代のクロマチン研究は、DNA配列解読技術、生命現象の可視化技術など、近年の革新的研究技術が生み出す膨大な量の情報を総合して、ゲノムを動的・適応的に洗練されたシステムとして理解することにあります。2014年高等研カンファレンスでは、最先端の研究を通じて、クロマチンの動態を背景にした生命現象の理解という生命科学の最先端の課題と今後の研究の方向性について議論します。