



RICCEM2017

CRYO-ELECTRON MICROSCOPY 2017: ACHIEVEMENTS AND PROSPECTS

MOSCOW
JUNE 6-8, 2017

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ABOUT

"Cryo-electron microscopy 2017: achievements and prospects" will be held at Lomonosov Moscow State University (MSU) on June 6 – 8, 2017.

The main purpose of this conference is to inform the Russian scientific community of the technical progress attained in structural biology and of the latest achievements in the field of cryo-electron microscopy. This event will become a communication platform between internationally recognized experts and young researchers in the rapidly developing region of cryo-electron microscopy. Leading researchers from Russia, Europe, USA and Japan will take part in this conference; this will undoubtedly have a positive effect on the international reputation of Moscow State University. The conference will have significant impact on further advancement of cryo-EM in Russia and the implementation of the most modern structural methods at MSU; it will also establish fruitful partnerships between researchers in Russia and abroad. Recent advances in deciphering the atomic structure of macromolecules using cryo-electron microscopy and various aspects of sample preparation will be discussed at the conference.

WORKSHOPS WILL BE HELD ON THE TOPICS OF:

- Membrane proteins and the methods of studying their structure;
- The structure and functions of the cells transcription apparatus;
- Subnanometer-resolution virus structures;
- Molecular organization of cells and organelles;
- New methods of sample preparation and data processing in cryo-electron microscopy.

IMPORTANT DATES:

Abstract submission ends – 1.05.17

Last day to register online – 1.06.17

Russian Visa invitation letters to be received – 30.04.17.

CONTACTS:

PARTICIPATION AND ORGANIZATION QUESTIONS:

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PRELIMINARY CONFERENCE SCHEDULE

6 JUNE

From **10:00** registration open at Faculty of Biology, MSU 1 Leninskie Gory, Bld. 12

- 14:00

Opening
- 14:15

14-20 Greeting from Dean of Faculty of Biology, MSU, acad. Mikhail Kirpichnikov

KEYNOTE LECTURE

- 14:15-14:30

Cryo-electron microscopy or the challenge of doing structural biology in situ.

Wolfgang Baumeister
(Max-Planck-Institut für Biochemie, Germany)
- 14:30-15:30

Cryo-electron microscopy of AMPA receptor-stargazin complexes

Dr. Alexander Sobolevsky
(Columbia University, NY, USA)

20 MIN LECTURES

- 16:30

Novel Inter-Subunit Contacts in Barley Stripe Mosaic Virus Revealed by Cryo-Electron Microscopy

Prof. Andrey Soloviev
(MSU, Moscow, RU)
- 17:00

to be announced

Dr. Zakhar Shenkarev
(IBH, Moscow, RU)
- 17:30

to be announced

Prof. Olga Sokolova
(MSU, Moscow, RU)
- 18:30

Banquet

PRELIMINARY CONFERENCE SCHEDULE

7 JUNE

SINGLE PARTICLE

9:00	Protein-bound compartments: Variations on a theme	Dr. Alasdair Steven (NIH, Bethesda, USA)
9:50	to be announced	Prof. Elena Orlova (Birkbeck College, London, UK)
10:40	to be announced	Prof. Valentin Gordeliy (IBS, Grenoble, France/MIPT, Dolgoprudny)
11:30	Coffee-brake	
11:45	Cryo-electron microscopy of RNA polymerase I and III transcription complexes	Dr. Christoph Müller (EMBL, Heidelberg, Germany)
12:40	Role of histone chaperones in regulation of transcription and cancer	Dr. Vasily Studitsky (FCCC, USA/MSU, Moscow, RU)
13:30	Lunch	

METHODS OF IMAGE RECONSTRUCTION IN CRYO-EM (APPLICATIONS TO IMAGE RECONSTRUCTION)

14:30	Advances in segmented helical reconstruction	Dr. Carsten Sachse (EMBL Heidelberg, Germany)
15:20	Beyond black-box processing: long live «toolbox-style» single-particle cryo-EM methodology	Dr Pavel Afanasiev (MRC, Cambridge, UK)
16:00	Cryo-EM analysis with the Volta phase plate	Max Maletta (FEI, Netherlands)
16:45	Coffee-brake	

20 MIN LECTURES

17:00	to be announced	Dr. Lydia Kurochkina (IBH, Moscow, RU)
17:30	to be announced	
18:00	Poster session	

PRELIMINARY CONFERENCE SCHEDULE

8 JUNE

CELLULAR ORGANIZATION

9:00	Cryo-TEM in studies of chromatin organization	Dr. Mikhail Eltsov (Goete University, Frankfurt, Germany)
9:50	The functional structure of lamins in somatic cells	Dr. Ohad Medalia (University of Zurich, Switzerland)
10:40	Coffee-brake	
11:00	Probing the Molecular Organization of Cells and Organelles using Cryo-Electron Microscopy	Dr. Daniela Nicastro (Southwest University, USA)
11:50	to be announced	Dr. Igor Kireev (MSU, Moscow, RU)
12:40	to be announced	
13:30	Lunch	

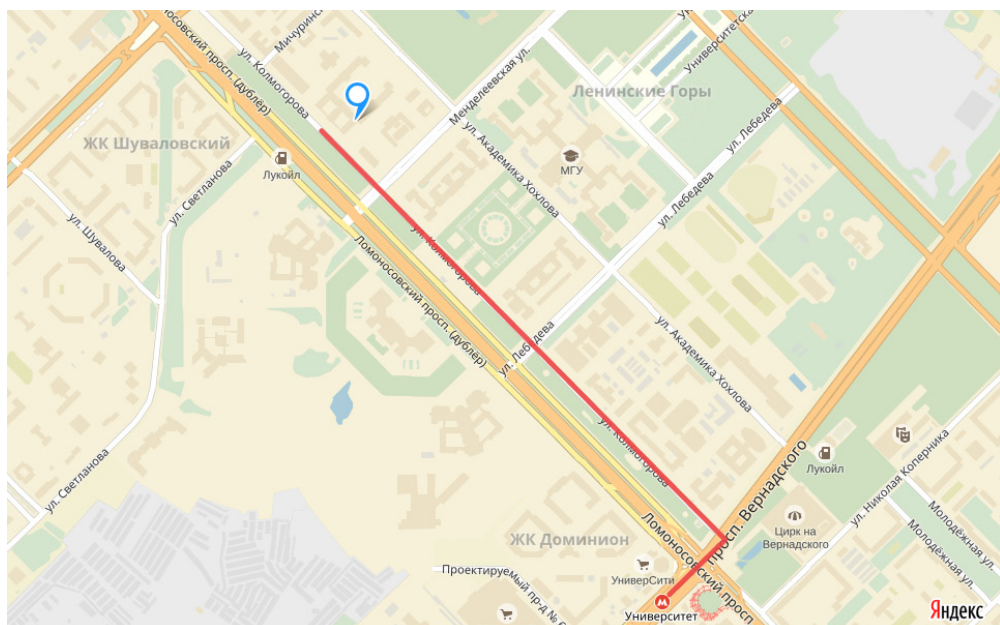
EMERGING TECHNIQUES IN CRYO

14:30	Immersion freezing and Cryo CLEM techniques for cryo TEM applications	Dr. Guenter Resch (Nexperion, Austria)
15:20	High Pressure Freezing and freeze fracturing for cryo SEM applications	Andreas Nowak (Leica, Austria)
16:00	to be announced	
16:45	Coffee-brake	

20 MIN LECTURES

17:00	Investigation of biocompatible containers with nanoparticles by Cryo-SEM	R.A.Kamyshinsky (Kourchatov institute, Moscow, RU)
17:30	Cryo-TEM study of layered clay minerals	Dr. Alexander Vasilev (Kourchatov institute, Moscow, RU)
18:00	Cryo-SEM study of polymers	Anton Orekhov (Kourchatov institute, Moscow, RU)
18:30	Best poster award ceremony	
18:45	Closing remarks	

CONFERENCE VENUE



Conference will be held
in Moscow State University
Faculty of Biology, auditory BBA

Address: 1 Leninskie gory, Bld 12

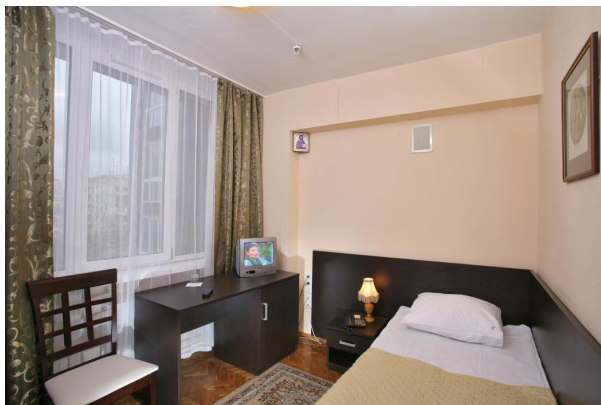
PLACES TO STAY

• Universitetskaya hotel

(Michurinskiy Prospect 8/29, Ramenki, 119192 Moscow, Russia)

CONTACTS

BOOKING: 8-495-151-84-84 | www.universitetskaja.ru



• Hotel Korston Moscow

(Ulitsa Kosygina 15, Gagarinsky, 119334 Moscow, Russia)

CONTACTS

BOOKING: 8-800-100-9989 | www.korston.ru/moscow

