**A hybrid meeting of the International Advisory Board of the Institute of Biophysics of the Czech Academy of Sciences**

**October 6, 2022, 2 p.m.**

 **Location: Královopolská 135, 612 65, Brno, the Czech Republic**

 **Join Zoom Meeting** [**https://cesnet.zoom.us/j/93025937417?pwd=NkoyV0FiS2lBYkprdDEzTi9Bcy9FQT09**](https://cesnet.zoom.us/j/93025937417?pwd=NkoyV0FiS2lBYkprdDEzTi9Bcy9FQT09)

 **Program:**

**2:00 – 2:10 p.m. Presentation of the ISAB program and an introduction of a new ISAB member, Eran Meshorer**

**2:10-2:30 Jean Louis Mergny: Quadruplexes at IBP: how to continue beyond the Symbit project?**

**2:30 – 2:50 Information on what has been going on in the institute since the last ISAB meeting and general information about the P JAC project application: talk of director**

**2:50-3:00 Discussion about information of the director - a new publication strategy of the IBP should be discussed from the view of the Czech national evaluation of science M17+ (https://www.vyzkum.cz/Default.aspx?lang=en).**

**3:00 -3:20 talk of young scientist – Brabec group: Vojtěch Novohradský/** **Challenges and opportunities for metal-based drugs predicting successful cancer treatment**

 **3:20 – 3:40 Talk of young scientist – Bártová group: Soňa Legartová/RNA modifications and DNA repair**

**3:40 – 4:00 talk of young scientist – Falk group: Petr Fajkus/Intricate evolution of telomerase RNAs driven by type 3 RNAP III snRNA**

**4:00 – 4:20 talk of young scientist – Fojta group: Monika Hermanová/ Construction of Labeled Nucleic Acids for Electrochemical DNA/RNA Sensing**

**4:20 – 4:40 talk of young scientist – Kovařík group: Radka Vozárová / Telomeric repeats and evolution of chromosomes in the ancient cycad plants**

**4:40 – 4:55 Coffee break**

**4:55 – 5:15 talk of young scientist – Vondráček group: Ondřej Vacek/Trop2 and its role in cancer progression**

**5:15 – 5:35 talk of young scientist – Šponer group: Miroslav Krepl/ Structural ensembles of nucleic acids studied by molecular simulations**

**5:35 – 5:55 talk of young scientist – Hobza group: Viktor Tokan /G-quadruplexes in non-canonical telomeres**

**5:55 – 6:15 talk of young scientist – Kubala group: Jan Víteček/Studying the characteristics of blood vessels using microfluidic models**

**6:15 – 6:35 talk of young scientist – Renčiuk group: Tereza Pavlicová/The role of guanine quadruplexes in biological systems**

 **6:35-7:00 Open Discussion – how to motivate young scientists to be group leaders and how ISAB could help us when OP JAK (P JAC) is funded (https://opjak.cz/en/)**

 **7:30 Dinner of the ISAB members with department leaders and speakers**

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**The ISAB members:**

**Tom Misteli**, National Cancer Institute, Center for Cancer Research, NIH, Bethesda, USA **Roland Foisner**, Medical University of Vienna, Max-Perutz Laboratories, Vienna, Austria
**Ben Luisi**, University of Cambridge, United Kingdom
**Elena Ferapontova**, Aarhus University of Copenhagen, Denmark
**Mary Anne O'Connell**, CEITEC MU, Brno, Czech Republic
**Jiří Forejt**, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague, Czech Republic
**Giovanni Natile**, University of Bari, Aldo Moro, Italy
**Eran Meshorer**, The Hebrew University of Jerusalem, Israel