

Interdisciplinary Approaches to Complex Biological Systems

November 12–14, 2018, Poznań, Poland

**Międzynarodowa Konferencja
zorganizowana**



**w 100-lecie urodzin
Profesora
Macieja Wiewiórowskiego
oraz
w 30-lecie powołania
Instytutu Chemii Bioorganicznej PAN**



INSTYTUT CHEMII BIOORGANICZNEJ
Polskiej Akademii Nauk

PROGRAM

Monday, November 12

10:00–10:15 Powitanie gości – MAREK FIGLEROWICZ

Chairman JERZY BORYSKI

10:15–11:45 MAREK FIGLEROWICZ

Maciej Wiewiórowski

WOJCIECH T. MARKIEWICZ I JAN BARCISZEWSKI

*Profesor Maciej Wiewiórowski jako uczonec
w oczach uczniów i współpracowników*

ANDRZEJ B. LEGOCKI

Profesora Wiewiórowskiego kręgi przyjaciół zagranicznych

11:45–12:30 Część oficjalna

12:30–13:00 Koncert Chóru Kameralnego Polskiej Akademii Nauk

13:00–14:30 Lunch

Chairman MACIEJ STOBIECKI

14:30–16:15 RYSZARD W. ADAMIAK

„Jesteśmy w oku cyklonu”. Wspomnienia o Profesorze

JERZY CIESIOŁKA

Droga od aldehydu chlorooctowego do RNA

MARIUSZ JASKÓLSKI

Maciej Wiewiórowski – wizjoner w wielu wymiarach

ADAM KRASZEWSKI

Komponent kluczowy – czego się nauczyłem

HANNA SIERZPUTOWSKA-GRACZ

1974 – z Warszawy do Poznania „za chlebem”

JACEK STAWIŃSKI

*„Stary”, antresola i klucz, czyli początki chemii kwasów
nukleinowych w Poznaniu*

KRZYSZTOF SZYFTER

*Od makroanalizy tRNA do mikroanalizy podłoża genetycznego
procesu nowotworzenia*

18:30 Informal diner for invited speakers

Tuesday, November 13

Chairman: WOJCIECH T. MARKIEWICZ

- 9:00–9:35 PIET HERDEWIJN, Leuven, Belgium
Synthetic nucleic acids and xenobiology
- 9:35–10:00 AGNIESZKA FISZER, Poznań, Poland
Mechanisms involved in repressing polyQ disease genes by miRNA-like siRNAs
- 10:00–10:35 ARTUR JARMOŁOWSKI, Poznań, Poland
Post-transcriptional regulation of microRNA biogenesis in plants
- 10:35–11:10 BARBARA NAWROT, Łódź, Poland
Interplay between sulfur- and selenium-containing modifications in bacterial tRNA
- 11:10–11:30 Coffee break

Chairman: JACEK STAWIŃSKI

- 11:30–12:05 JEAN-LOUIS MERGNY, Bordeaux, France
Unusual nucleic acid structures: beyond the DNA double-helix
- 12:05–12:30 ANNA KURZYŃSKA-KOKORNIAK, Poznań, Poland
Unknown areas of activity of human ribonuclease Dicer
- 12:30–12:55 MICHAŁ JASIŃSKI, Poznań, Poland
Molecular basis of the selective transport fulfilled by plant ABCG proteins
- 12:55–13:30 JANEZ PLAVEC, Ljubljana, Slovenia
G-rich DNA repeats and their amazing NMR structures
- 13:30–15:00 Lunch

Chairman: JAN BARCISZEWSKI

- 15:00–15:35 ANDRZEJ DZIEMBOWSKI, Warsaw, Poland
Regulation of gene expression by non-canonical poly(A) and poly(U) polymerases
- 15:35–16:00 ZBIGNIEW WARKOCKI, Poznań, Poland
Post-transcriptional regulatory mechanisms of LINE-1 retrotransposition in human
- 16:00–16:35 ANDREAS JÄSCHKE, Heidelberg, Germany
New roles for an old coenzyme – NAD-capped RNAs in bacteria
- 16:35–17:00 Coffee break

Chairman: ADAM KRASZEWSKI

- 17:00–17:35 MARIUSZ JASKÓLSKI, MIROSŁAW GILSKI, Poznań, Poland
Crystallographic studies of unusual nucleic acids
- 17:35–18:10 MAGDALENA ŁUCZAK, Poznań, Poland
The molecular mechanism of sensitivity and drug resistance in multiple myeloma on the example of proteasome inhibitors
- 18:10–18:45 ANDREJ SHEVCHENKO, Dresden, Germany
Shotgun Lipidomics by Ultra-high Resolution Mass Spectrometry
- 19:00 Conference diner

Wednesday, November 14

Chairman: RYSZARD W. ADAMIAK

- 9:00–9:35 JANUSZ BUJNICKI, Warsaw, Poland
New computational tools for comparative analyses of RNA structures
- 9:35–10:00 MARTA SZACHNIUK, Poznań, Poland
RNA structure modeling as bioinformatics challenge
- 10:00–10:25 ELŻBIETA KIERZEK, Poznań, Poland
Influenza virus RNA – from secondary structure to new therapeutic targets
- 10:25–10:50 ANNA PASTERNAK, Poznań, Poland
Unlocking of non-canonical nucleic acid structures
- 10:50–11:25 MARCIN NOWOTNY, Warsaw, Poland
Coordination of enzymatic activities in enzymes processing nucleic acids
- 11:25–11:50 Coffee break

Chairman: TOMASZ TWARDOWSKI

- 11:50–12:25 CHRIS MEIER, Hamburg, Germany
Development of nucleoside triphosphate prodrugs as antivirals – the TriPPPPro-approach and what is next?
- 12:25–12:50 PAWEŁ BEDNAREK, Poznań, Poland
Biosynthesis and function of plant alkaloids. From lupin quinolizidines to Brassicaceae indolic phytoalexins
- 12:50–13:15 KATARZYNA ROLLE, Poznań, Poland
Goodbye flat biology. The new challenges and opportunities in cancer research
- 13:15–13:50 SZYMON ŚWIEŻEWSKI, Warsaw, Poland
Making sense of antisense
- 13:50–14:00 Closing of conference
- 14:00–15:00 Lunch