



ÚOCHB AV
IOCB PRAGUE

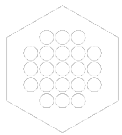
Meeting with Group Leaders

March 25, 2019

Zdenek Hostomský

Agenda

- Quantitative evaluation of research groups - update
- IOCB most significant papers 2018
- IAB 2019
- CryoEM Technology at IOCB
- PhD Interview Day (Kateřina Šolcová)
- Miscellanea - Upcoming events



The Quantitative Evaluation - rules



- Directive S2018-01:
- Only such outputs can be included in the evaluation which have been entered in the ASEP [Automated System for Publication Index] database
- A group's performance is numerically evaluated by means of the group performance index (GPI) based on the formula

$$\text{GPI} = J + B + C + D + P + T + S + L$$

J - articles published in a high-impact journal

B = specialised books

C = chapters of a book

The Quantitative Evaluation – deadline



D = article in a collection

P = patent granted

T = operation on a semi-industrial scale, attested technology

S = prototype, implemented methodology, functional sample, authorised software, utility and industrial design

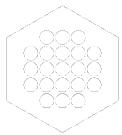
L = income from license fees and other income from the application of IP

- The ITS - Library (contact person: Jana Procházková) will provide the group leaders with a list of the allowable results as an abstract from the ASEP database
- Please forward the edited list to director's office by **March 15, 2019**

IOCB Research Output Evaluation

- Quantitative group output – scientometric
- Cumulative 2016, 2017, 2018
- Proportional distribution of 3 M CZK to the groups (another 3 M will be distributed for the winning most significant publications).
- The following group leaders have not delivered yet:
Birkuš, Bouřa, Kečkéšová, Kotorá/Kudová, Lazar,
Macíčková-Cahová, Nencka, Stříšovský, Matějková

IOCB Most Significant Publications 2018



Most significant publications in 2018



- **PHYS** Physical and Theoretical Chemistry
- **CHEM** Medicinal and Organic Chemistry
- **BIO** Biochemistry and Molecular Biology

Each group may submit 1 most significant paper published in 2018 per category, but no more than 2 papers total. Semi-autonomous units within larger groups may submit their own paper if the group leader is not listed as co-author. The papers will be pre-screened internally before they are sent to the external panel (IAB members, *ad hoc* reviewers) as well as to an internal IOCB panel (group leaders and management). 3 to 5 papers in each category will be awarded prizes in the form of group money.

Research at IOCB Prague

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PHYS

drug design
molecular modeling
computational chemistry
quantum mechanics chemistry
molecular spectroscopy
analytical chemistry
separation science

CHEM

drug discovery
organic synthesis
medicinal chemistry
natural products chemistry
materials chemistry
chemical biology
nanochemistry

BIO

biochemistry
structural biology
molecular biology
physiology, cell biology
chemical ecology
diagnostic tools
neuroscience

Crosstalk
between
chemistry and
other sciences

Interdisciplinary
approach

Internal pre-Selection



- Pre-selection panel is composed of the external members of IOCE Board and the director:

Tomáš Obšil

Petr Slavíček

Petr Svoboda

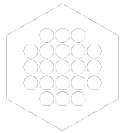
Zdeněk Hostomský

- Typically, only papers with principal or corresponding author from IOCB should be submitted.
 - Papers not meeting these criteria may still be submitted, but only work done at IOCB will be judged.
 - Print version date counts
-
- Assignment to categories will be checked

Most significant publications 2018



- Submission deadline – **April 7, 2019**
- The winning publications for 2018 and 2019 will be presented at the IOCB retreat in Valeč in May 2020
- The standing of IOCB most significant paper will be analysed (judges are asked to select papers that would likely retain their significance and relevance 5 years from publication).



IAB

International Advisory Board



Prof. Agnieszka Chacińska, PhD

University of Warsaw,
Poland

Director of the Centre of New Technologies,
University of Warsaw

Laboratory of mitochondrial biogenesis,
International Inst. of Molecular and Cell Biology

Elected EMBO member



Prof. Annemieke Madder, PhD

University of Ghent,
Belgium

Organic and Biomimetic Chemistry
Research Group – design and synthesis of
modified peptides and nucleic acids

Panel Chair and member of the Chemistry
Panel PE5 of the ERC starting grants
(2010-2015)

IOCB International Advisory Board 2019

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Prof. Dr. Karl-Heinz Altmann
Institute of Pharmaceutical Sciences, ETH Zürich,
Switzerland



Prof. Ing. Dr. Marko Mihovilovic
Vienna University of Technology
Institute of Applied Synthetic Chemistry, Austria



Prof. Dr. Wilhelm Boland
Max-Planck Institute für Chemische Ökologie,
Jena, Germany



Prof. Dr. Frank Neese
Max-Planck Institute for Chemical Energy Conversion,
Mülheim an der Ruhr, Germany



Prof. Agnieszka Chacińska, PhD
University of Warsaw, Department of Chemistry,
Poland



Prof. Barry V. L. Potter, PhD
Oxford University
Department of Pharmacology, United Kingdom



Prof. Dr. Burkhard König
Institut für Organische Chemie
Universität Regensburg, Germany



Prof. Dr. Irit Sagi
Dept. of Biological Regulation,
Weizmann Institute of Science, Israel



Prof. Hans-Georg Kräusslich, MD
Department of Infectious Diseases – Virology,
University Hospital Heidelberg, Germany



Dr. Alexander Wlodawer
Macromolecular Crystallography Lab.
National Cancer Institute, Frederick, MD, USA

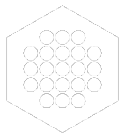


Prof. Lanny S. Liebeskind, PhD
Emory University, Department of Chemistry,
Atlanta, GA, USA



Prof. Dr. Annemieke Madder
University of Ghent, Dept. of Organic and
Macromolecular Chemistry, Belgium

- Believed to be the next strategic direction for structural biology, in addition to x-ray crystallography and biomolecular NMR



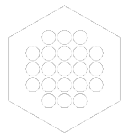
Current situation at IOCB:

- No plans to build a high end facility on site
- Negotiated deal with CEITEC who operate a state-of-the-art facility – TITAN Krios TEM (300 keV) - and a highly qualified team (J.Nováček), charging us 1/10 of the market prize.
- (Pavlína can comment on the quality of service.)

CryoEM – a BIOCEV original offer

- Discussions with Cyril Bařinka, Bohdan Schneider, Aleř Benda
- Plan to submit OPVVV “big infrastructures” grant
 - PřF UK - 25 M
 - BTÚ AVČR - 60 M

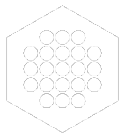
IOCB participation – 60 M



- Bioimaging center at BIOCEV would provide labspace and staff (Adam Schroefel + 2 FTEs for data analysis)
- System for CryoTM (cryo lamellas) from BIOCEV 30 M
- Particles plunge freezer from **IOCB** **1 M**
- One third time distribution among BIOCEV, IOCB and open access

CryoEM – at IOCB

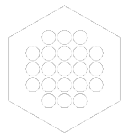
- IOCB will purchase a 200 keV system, such as Talos Arctica
- Will be housed at IOCB campus
- Search for convenient location
- Creative options for new space



CryoEM – a BIOCEV modified offer

- Discussions with Cyril Bařinka, Bohdan Schneider, Aleř Benda
- Plan to submit OPVVV “big infrastructures” grant
 - PřF UK - 0 M
 - BTÚ AVČR - 60 M

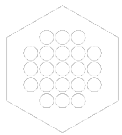
IOCB participation – 85 M



- Bioimaging center at BIOCEV would provide labspace and staff (Adam Schroefel + 2 FTEs for data analysis)
- System for CryoTM (cryo lamellas) from BIOCEV 30 M
- Particles plunge freezer from **IOCB** **1 M**
- One third time distribution among BIOCEV, IOCB and open access, one half of running costs

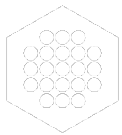
CryoEM at BIOCEV timeline

- IOCB decision early March 2019
 - BIOCEV SB consortium OP VVV grant submission - May 2019
 - Arrival of Adam Schroefel fall 2019
 - Results of OP VVV grant Nov. 2019
 - Public tender early 2020
 - Ordering (6-8 months delivery time) mid 2020
 - Delivery, installation, finetuning 2021
 - Full operation early 2022
-
- Until then, a negotiated deal with CEITEC still applies



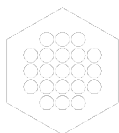
CryoEM at IOCB

- Question:
- Will IOCB have their own 200 keV system here and still participate in acquisition of a top end 300 keV system at Biocev ?



- The IOCB board will step in tomorrow,
but now is the time for discussion ...

Kateřina Šolcová



PhD INTERVIEW DAY @ IOCB – 2019 – sum up

Big thanks to ...

- Committee members
- All group leaders that joined the selection process
- Chaperones

Discussion

- A form of the next PhD Interview Day
- Email from me:
 - A doodle request for a meeting with you
 - Expected dates – from April 4 to 10

Numbers

197 PhD candidates / 32 (48) positions

39 selected for the Interview Day

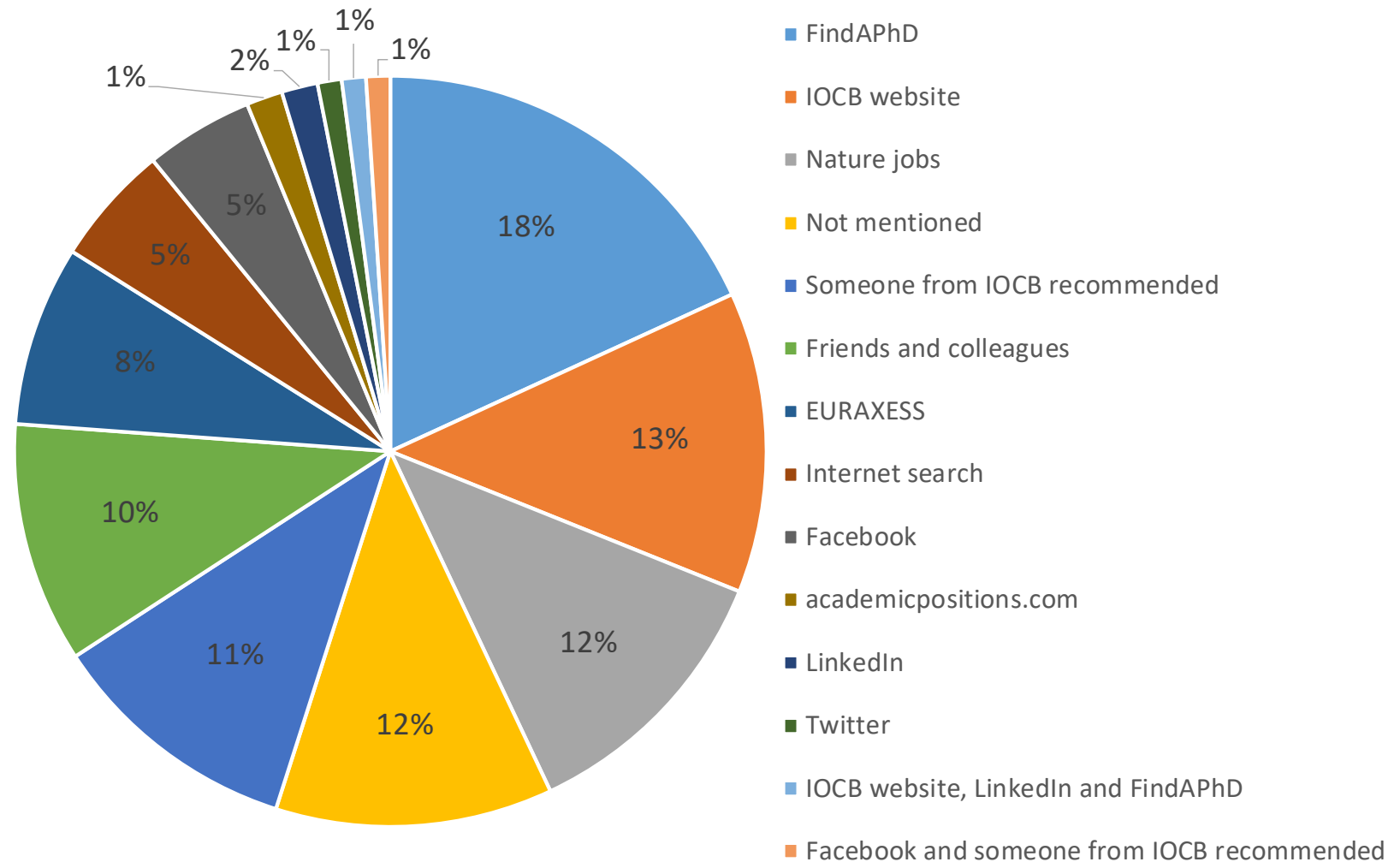
- 24 on-site interviews / 15 skype interviews

On-site Interview	Number
Czech	6
Slovak	2
Serbian	2
German	2
Italian	2
Croatian	1
Romanian	1
Indian	1
Uzbekistan	1
English	1
American	1
Spanish	1
Moldova	1
Republic of Belarus	1
Latvian	1
Sum	24

SKYPE Interview	Number
Indian	5
Italian	2
Thai	1
Russian	1
Kazakhstan	1
FILIPINO	1
Spain	1
Colombia	1
Ecuadorian	1
Croatian	1
Sum	15

PhD INTERVIEW DAY @ IOCB – 2019 – sum up

How did you learn about PhD program at IOCB Prague?



IOCB Prague Summer Student Program 2019

Information about the program

- 8 weeks program (15th July to 6th September)
- Scholarship is 980 €
- **Application deadline: 30th April, 2019**

Who can apply

- **Students doing master's degree in**
 - organic chemistry
 - biochemistry
 - molecular biology
 - theoretical chemistry
- **NO for students on ERASMUS or other fellowships!**

**Please, share this program
link with your collaborators
and colleagues abroad:**

www.iocb.cz/ssp19

PhD Agenda

Excursion to South

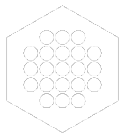
- **15th – 16th April, 2019:**
 - České Budějovice – Biology centre
 - Nové Hradky – Center for Nanobiology and Structural Biology
 - Třeboň – Centre Algatech

Joint Retreat 2019 – CEITEC, IMG, IST Austria

- **26th – 27th June, 2019**
- Kouty (near to Ledec nad Sázavou)
- Speaker from IOCB Prague – Prof. M. Fusek
- Fee 30 € - paid for 5 our PhD students
- Responsible person in IOCB – **Markéta Nováková**
- **Application deadline: 30th April, 2019**
- <http://phdretreat.ceitec.cz/>

PhD Representatives

- Markéta Nováková (P. Řezáčová lab)
- Andrii Kurochka (D. Yushchenko lab)
- Barbora Svojanovská (H. Cahová lab)



Miscellanea

Upcoming events

- Minisymposium “ Advances in Therapies for Infectious Diseases and Cancer” – April 1, 2019 at 1:15 pm
- Via Carolina meeting Erlangen-Nürnberg and IOCB Prague – June 6-7, 2019 (Ulli Jahn)

1st Via Carolina meeting

June 21-22, 2018 at IOCB Prague

Aimed at initiating collaboration between

Dept. of Chemistry and Pharmacy,
Friedrich-Alexander University Erlangen-Nürnberg
&
IOCB Prague

FAU Profile:

- Organic Chemistry (Tsogoeva)
- Medicinal Chemistry (Gmeiner, Eichler, Heinrich)
- Materials-oriented Chemistry (Hirsch)
- Theoretical Chemistry Center
- Organometallic Chemistry (Harder)
- Food Chemistry (Pischetsrieder)

2nd Via Carolina meeting

June 6-8, 2019 at FAU Erlangen-Nürnberg

Aimed at strengthening collaboration between

Dept. of Chemistry and Pharmacy,
Friedrich-Alexander University Erlangen-Nürnberg
&
IOCB Prague

Proposal: ca. 20 PhD students/postdocs + director/group leaders

10 representative short talks by young scientists

Initiate collaboration in the Czech-Bavarian framework

Mtgs w GLs - 2019 Schedule



- January 14
- February 25
- March 25
- April 15
- May 13
- June 17
- September 9
- October 14
- November 11
- December 16

Always on Mondays at 10:00 am in the Director's Boardroom A4.01