1:30 PM Welcome by Karin Busch and Verónica Eisner (replacing Carmen Mannella)

1:40 PM **Liron Boyman**, University of Maryland, US
*Mitochondrial Calcium Signaling and the Regulation of ATP Production - Investigated with Novel Imaging Approaches*

2:10 PM **Andrea Dlaskova**, Czech Academy of Sciences, Czechia
*Remodeling of Cristae Ultrastructure during Hypoxia and Substrate-Dependent Metabolic Change*

2:40 PM **Tzviya Zeev-Ben-Mordehai**, Utrecht University, Netherlands
*The Remarkable Sperm Mitochondrial Sheath: Insights from Cryo-Electron Tomography*

3:30 PM **Adam Fenton**, University of Pennsylvania, USA
*Mitochondrial Adaptor TRAK2 Activates and Functionally Links Opposing Kinesin and Dynein Motors*

4:00 PM **Verónica Eisner**, Pontifica Catholic University, Chile
*Mitochondrial Nucleoid Dynamics Perturbation by OPA1 Disease-causing Mutants*

4:30 PM **Bioenergeticists Awards & Lecture: Kareem Heslop and Phung N Thai**

5:00 PM **Subgroup Business Meeting: Uwe Schlattner, Evgeny Pavlov**
Subgroup research awards
Subgroup research awards

**Student Bioenergeticist Award**

**Kareem Heslop**
(Medical University of South Carolina)

2017-2022  Ph.D. in Biomedical Sciences, MUSC, Charleston
2013-2017  B.S. Biology, Claflin University, Orangeburg, SC

Nominated by Dr. Eduardo Maldonado (Ph.D. advisor)
Subgroup research awards

Student Bioenergeticist Award

Kareem Heslop
(Medical University of South Carolina)

Small molecules targeting the VDAC-NADH binding pocket modulate mitochondrial metabolism in cancer cells
Subgroup research awards

Young Bioenergeticist Award

Phung N Thai
(University of California, Davis)

2017-present  Postdoctoral Fellow, Department of Internal Medicine, UC Davis
2010-2016  Ph.D. Molecular, Cellular, Integrative Physiology, UC Davis
2006-2010  B.S. Biomedical Engineering, UC Davis

Nominated by Dr. Elena N. Dedkova
Subgroup research awards

Young Bioenergeticist Award

Phung N Thai
(University of California, Davis)

Mitochondrial Microdomain Disruption Results in Sinus Node Dysfunction in Heart Failure
Is it sustainable to elect every year two new co-chairs?

Changes in bylaws?
Business Meeting - Agenda

Chairs: Uwe Schlattner & Evgeny Pavlov      February 19, 5:00-5:30 PM

Subgroup live 2021/22
- Subgroup election results
- Future subgroup council
- Evolution of BPS Subgroups

Budget 2022
- Budget update
- Reserve evolution

San Diego 2023 & future
- Symposium format and subgroup dinner
- Nominations for BPS Awards and Council
- Virtual seminars/webinars
- Suggestions for program/subgroup symposia
- Past symposium topics & suggestions
BPS Bioenergetics, Mitochondria and Metabolism Subgroup

Subgroup live 2021/22
Evolution of BPS subgroups

Bioenergetics, Mitochondria and Metabolism Subgroup

Options that were discarded:

• Alternation of in-person and virtual subgroup symposia
• 3rd symposium a day (morning, afternoon, and evening)
• Increase of the minimum threshold of 100 members to form or continue a subgroup
• Combining two subgroups for one single one-day symposium - joint scheduling of two subgroups such that they can provide a day-long symposium is fine but does not solve the problem

Subgroup research awards

Student Bioenergeticist Award

Kareem Heslop
(Medical University of South Carolina)

Young Bioenergeticist Award

Phung N Thai
(University of California, Davis)
Evolution of BPS subgroups

BPS Bioenergetics, Mitochondria and Metabolism Subgroup

Subgroup elections

Co-Chairs

Nelli Mnatsakanyan
(Yale Univ. School of Medicine & Pennsylvania State University)

Ildiko Szabo
(University of Padova, Italy)

Eduardo N. Maldonado
(Medical University of South Carolina, Charleston)

Executive council
Subgroup leadership 2022-23

Co-Chairs
Sonia Cortassa 2021-23
Elena Dedkova 2021-23

Co-chairs elect
Nelli Mnatsakanyan 2022-24
Ildiko Szabo 2022-24

Secretary-Treasurer
Maria E. Solesio (Torregrosa) 2021-23

Executive Council Members
Veronica Eisner 2021-23
Eduardo N. Maldonado 2022-24

We could improve on some of these issues!
Subgroup membership

As of 12/07/2021: 248 registered members
Nominations for 2023

2 Co-Chairs

Secretary-Treasurer

1 Executive Council Member

Is it sustainable to elect every year two new co-chairs? Changes in bylaws?
Evolution of BPS subgroups

BPS Task Force in summer 2021

Problem:

• There is an increase of Subgroup numbers over the last years
• The 2022 meeting supports 18 subgroups
• Space in convention centres becomes limiting
• New subgroups will no more be possible
Evolution of BPS subgroups

- Founded in 1958

<table>
<thead>
<tr>
<th>Year</th>
<th>Sungroup number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>0</td>
</tr>
<tr>
<td>1960</td>
<td>0</td>
</tr>
<tr>
<td>1970</td>
<td>0</td>
</tr>
<tr>
<td>1980</td>
<td>0</td>
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<td>1990</td>
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<td>2000</td>
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<td>2010</td>
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<td>2020</td>
<td>0</td>
</tr>
<tr>
<td>2030</td>
<td>0</td>
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</tbody>
</table>

Sponsors

- Thermo Fisher Scientific: $1,200
- New England Biolabs GES: $500
- Univ. Grenoble Alpes: $800
- BBA Bioenergetics: $500

TOTAL Sponsors: $3,000

We kindly thank our sponsors and the members who secured this funding!!
Evolution of BPS subgroups

Options that were discarded:

• Alternation of in-person and virtual Subgroup symposia
• 3\textsuperscript{rd} symposium a day (morning, afternoon, and evening)
• Increase of the minimum threshold of 100 members to form or continue a Subgroup
• Combining two Subgroups for one single one-day symposium
  - joint scheduling of two Subgroups such that they can provide a day-long symposium is fine but does not solve problem
Evolution of BPS subgroups

Recommendations to the council:

- Limit the total number of Subgroups to 18
- Annually evaluate Subgroups using a quantitative report card
- Provide best practices guide to Subgroup Chairs
- Support emerging research areas with an incubator program
- Require new Subgroup applicants to critically analyze their relationship to existing Subgroups
BPS Bioenergetics, Mitochondria and Metabolism Subgroup

Evolution of BPS subgroups

Subgroup reporting

<table>
<thead>
<tr>
<th>Member Engagement</th>
<th>Administrative Tasks</th>
<th>Symposium</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Career Opportunities:</strong></td>
<td><strong>Officer Responsiveness:</strong></td>
<td><strong>Meets Deadlines:</strong></td>
</tr>
<tr>
<td>Subgroup Awards, Flash talks for postdocs,</td>
<td>Attends meeting(s), responds to emails, keeps BPS staff</td>
<td>reimbursement policy, budgets,</td>
</tr>
<tr>
<td>Mentor Panels</td>
<td>informed</td>
<td>speaker list, program, AV/Catering,</td>
</tr>
<tr>
<td>Community Building:</td>
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<td>elections</td>
</tr>
<tr>
<td>Subgroup Dinner/ Social Mixer, Sharing</td>
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<td></td>
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<tr>
<td>events of interest, Discussion on</td>
<td></td>
<td></td>
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<tr>
<td>Forums</td>
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<tr>
<td>Additional Content: Webinars, Blogs,</td>
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<tr>
<td>State Letters, Social Media</td>
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<td></td>
</tr>
<tr>
<td>Diversity, Equity &amp; Inclusion:</td>
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<td></td>
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<tr>
<td>Women, early career, geographic diversity,</td>
<td></td>
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<tr>
<td>and URM</td>
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</tr>
</tbody>
</table>

We could improve on some of these issues!
Evolution of BPS subgroups

See also

“The Vitality of Subgroups”
BPS Bulletin, January 2022

https://www.biophysics.org/bps-bulletin/the-vitality-of-subgroups
Budget issues

Thanks to Maria Solesio!
Symposium format and subgroup dinner

BPS Bioenergetics, Mitochondria and Metabolism Subgroup

Preliminary 2022 Budget - Revenue

<table>
<thead>
<tr>
<th>Budget 2022 (estimated)</th>
<th></th>
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<tbody>
<tr>
<td>Membership Dues</td>
<td>$1,170</td>
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<tr>
<td>Sponsorship/Contributions</td>
<td>$3,000</td>
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<tr>
<td>Dinner (canceled)</td>
<td>$2,850</td>
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<tr>
<td><strong>Total Revenue (minus dinner)</strong></td>
<td>$4,170</td>
</tr>
</tbody>
</table>
Nominations for BPS Awards and Council

Awards: Many BPS awards are not limited to a specific field! https://www.biophysics.org/awards - funding/society - awards

Application through the online nomination site.

Council: Our new co-chair Ildiko Szabo (Univ Padova, Italy) will compete this year for Council, please promote her election within your personal network!

Sponsors

<table>
<thead>
<tr>
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<tr>
<td>TOTAL Sponsors</td>
<td>$3,000</td>
</tr>
</tbody>
</table>

We kindly thank our sponsors and the members who secured this funding!!
## Preliminary 2022 Budget – Expenses

<table>
<thead>
<tr>
<th>Budget 2022 (estimated)</th>
<th></th>
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<tbody>
<tr>
<td>A-V expense</td>
<td>$1,783</td>
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<tr>
<td>Catering (coffee break)</td>
<td>$612</td>
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<tr>
<td>Awards</td>
<td>$450</td>
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<tr>
<td>Meals (<em>dinner, cancelled</em>)</td>
<td>$3,675</td>
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<tr>
<td>Miscellaneous</td>
<td>$1,825</td>
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<tr>
<td><strong>Total Expenses (minus dinner)</strong></td>
<td><strong>$4,670</strong></td>
</tr>
</tbody>
</table>
**Suggestions for program/subgroup symposia**

- **2024 main program** - requires ideas/seeds that will be further developed by BPS
- **2023 subgroup symposium** - requires full proposal (chairs, abstract, speakers, sponsors) - selection by the subgroup council + past co-chairs
- **2022 virtual seminars** - would require full proposal and approvement by the subgroup council

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**Total Net Revenue**

<table>
<thead>
<tr>
<th>Balance</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$4,170</td>
</tr>
<tr>
<td>Expenses</td>
<td>$4,670</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$ -500</td>
</tr>
</tbody>
</table>
Subgroup reserve evolution

We should increase our reserves!
Meeting San Diego 2023
Save the date

67th Annual Meeting

📅 Saturday, Feb 18, 2023 - Wednesday, Feb 22, 2023
📍 San Diego Convention Center, 111 W Harbor Dr, San Diego, CA 92101, USA
Symposium format and subgroup dinner

**Symposium:**
Maintained as in-person half-day event, switching between morning and afternoon sessions.

**Subgroup dinner:**
Will be continued next year as an essential part of our subgroup live. We may invite speakers of the 2021 and 2022 symposia to join the dinner next year.