



FEBS Workshop on Biochemistry and Molecular Biology Education

*Student-Centred learning
(Biomolecular Science Education)*

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Scientific Skills for Postgraduate Students and Young scientists

Yerevan, Armenia, 8-9 October, 2012

VENUE OF WORKSHOP – YFA (Youth Foundation of Armenia) Youth
Center (50/5, Abovyan str., Yerevan, Armenia)

FEBS Education Committee : Keith Elliott, Angel Herraез, Wolfgang Nellen, Tomas Zima and
Gul Guner-Akdogan (Chair)

Kindly supported by: Mathias Sprinzl (Chair-WGI)
Coordinated by: Hovakim Zakaryan (Secretary of External Communications Committee of Young
Biologists Association (YBA))

Hosted by: Guevork Kevorkian (Vice-president of Armenian Association of Biochemists (AAB))

FEBS web site: www.febs.org AAB web site: <http://aab.sci.am> YBA web site: www.yba.am

Aim and Scope of the Workshop

The aim of this workshop is to promote biochemistry and biomolecular biology education by **introducing new trends in education as well as presenting tips for the future scientists**. Thus, it will provide opportunities to enhance excellence and innovations in teaching (Student centred learning, problem-based learning, innovative educational technologies, new trends in PhD education), but also create a platform for postgraduate students and young scientists to share and learn, from the experts, current issues in biochemistry and molecular bioscience education.

As science touches every part of life in today's global society, it is imperative that postgraduate students learn to communicate science. Thus, the workshop also aims to present the challenges of science communication to the public and to train students in transferable skills pivotal to communicating science across a range of professional settings. An important focus of the workshop will be to develop the “scientific skills” (Project writing, critically reading literature, CV writing), of post-graduate students, **as well as giving the faculty an opportunity to explore ways of how to teach such skills**.

Meet the Expert Sessions –With this segment of the Workshop, it is aimed to provide a face to face interaction for faculty and for future people of science on issues treated during the general sessions.



Objectives of the Workshop

- To introduce the paradigm shift in biomolecular science education: **Student Centred learning**
- To demonstrate examples from current applications : **Problem-Based learning**
- To enhance understanding of **New Educational Technologies** (e-learning, blogs, etc) and discuss their role in biomolecular science education
- To introduce **New Perspectives in PhD Education** (new trends, supervision, and assessment of thesis)
- To present and discuss the issues related to **Science Communication to Public**
- To discuss & share good practices in science communication area and to design strategies to reach **non scientific audiences**
- To show effective ways of **Faculty-Student Cooperation and Student Self-Organisation**
- To focus on **Building on scientific skills and on professional development in science;**
- **To present tips on:**
 - How to choose and apply for **funds and programmes**
 - **CV writing**
 - **Use of internet wisely**
 - **Effective Project writing**
 - **Critically reading literature**

Who Should Attend?

Faculty, post-docs and PhD/MSc students from biochemistry, molecular biology, medicine, pharmacy, science education, and all disciplines of molecular biosciences are invited to attend.

Who are the Workshop Trainers?

Members of FEBS Education Committee, who have participated in several FEBS Workshops conducted in many European countries since 2005, and world experts from related areas.

Internal Young Scientist Fellowships (IYF's):

There will be a number of "internal young scientist travel fellowships" (ITFs) from FEBS, for young scientists (Graduate students and post-docs within 4 years of their PhD) based in Armenia and outside of Yerevan, to attend the Workshop. FEBS will cover travel (to Yerevan and back) and accommodation (2 days) of those selected by FEBS Education Committee (up to 200 Euros for each fellow). Applications should be sent (with a CV, intent letter, and an itemized list of costings) to the Chair of FEBS Education Committee:

Gul Guner Akdogan



E.mail: gul.guner@deu.edu.tr

Phone: + 90 232 412 44 03 (Office) / + 90 533 749 17 96 ()

Deadline for applications to the IYF's: 10th September 2012

For More Information:

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Programme:

October 8th, 2012-Monday

09:00-09:30 Registration

09:30-10:15 Welcome and Opening remarks

A. Gasparyan –Chair, Young Biologists Association (YBA NGO)

G. Güner Akdoğan-Chair, FEBS Education Committee

M. Sprinzl – Chair, FEBS Working group on Integration

G. Kevorkian-Vice President, Armenian Association of Biochemists(AAB)

10:15-10:30 Coffee break

Session 1 Student Centred Learning

10:30-10:45 "Introduction-What is Student Centred Learning" -G. Guner-Akdogan

10:45- 11:30 "Problem-Based Learning- An Example of Student Centred Learning"- K.Elliott

11:30-11.45 "Integrated Learning Curriculum in Biosciences" - N. Hovhannisyan

11:45-12:00 General Discussion – Q&A

12:00- 13.00 Lunch

Session 2 Tools in Basic Science Education - New Educational Technologies

13:00-13:30 New technologies and making educational use of them -A. Herraez (Spain)



- 14:00-14:15 Medical Faculties Network (MEFANET) aimed to advance learning with the use modern information technology -*T. Zima (Czech Republic)*
- 14:15-14:30 Discussion- Q&A
- 14:30-15:00 Faculty-Student Cooperation: “Science for the Public” -*W. Nellen (Germany)*
- 15:00-15:30 Funds and Programmes -*T. Zima (Czech Republic)*
- 15.30-15:45 General Discussion – Q&A
- 15:45-16:00 Coffee Break

Session 3 Meet the Expert (Upon Registration)

- 16:00-17:30 Structured round-table discussions with the experts

<i>Problem-Based learning (PBL)</i> <i>Izmir Experience</i> <i>(G.Guner Akdogan)</i>	<i>Problem-Based Learning(PBL) - Manchester Experience</i> <i>(K. Elliott)</i>	<i>Educational Technologies</i> <i>(A. Herraез)</i>	Science for the Public” <i>(W. Nellen)</i>	<i>Funds& Programmes</i> <i>(T. Zima)</i>	<i>Critical Reading of Literature</i> <i>(M. Sprinzl)</i>
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- 17:30-19:00 Welcome Drinks

October 9th, 2012- Tuesday

Session 4 Trends in PhD education

- 09:00-09:30** “European Perspective in PhD Education-Supervisor’s Role” *G Guner-Akdogan (Turkey)*
- 09:30-09:45 Discussion- Q&A

Session 5 Scientific Skills

- 09.45-10.15 “Finding one’s way in the Internet: where to search effectively” -*A. Herraез (Spain)*
- 10.15-10.30 Discussion- Q&A
- 10.30-10.45 Coffee Break
- 10.45-11.15 “Tips for Reading and Writing a Scientific Article” -*M. Sprinzl (Germany)*
- 11.15-11.30 Discussion- Q&A
- 11.30-12.00 “ Tips for Writing a Research Project Proposal” -*T. Zima (Czech Republic)*



12.00-12.15 Discussion- Q&A

12.15- 13.30 Lunch

Session 6 Professional Development of Young Scientists

13.30-14.00 “Preparing your curriculum vitae (CV) - how to make the most of yourself!” -K. Elliott (UK)

14.00-14.15 Discussion – Q&A

14.15-14.45 “Student Self-Organisation” W. Nellen

14:45-15:00 Discussion – Q&A

15.00-15.15 “Best practice” example from Armenia on Student Organisation – V. Ohanyan and R. Azizyan

15:15-15:30 Coffee Break

Session 7 Meet the Expert (Upon Registration)

15:30-17.00 Structured round-table discussions with the experts

<i>Supervision and Assessment in PhD Training</i> (G. Guner-Akdogan)	<i>Internet Searching</i> (A. Herraez)	<i>Critical Reading of Literature</i> (M. Sprinzl)	<i>Writing a Research Proposal</i> (T. Zima)	<i>CV Writing</i> (K. Elliott)	<i>Student Self Organisation</i> (W. Nellen)
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17.00-17.30 Closing (FEBS, AAB, YBA)