

FEBS AMBASSADORS ON  
EDUCATION MEETING  
8-9 April 2016  
Karolinum, Prague



**Education**  
**Ambassadors**  
FEBS Education Committee



## **FEBS AMBASSADORS-ON-EDUCATION MEETING, 8-9-April 2016, Prague**

- Kindly hosted by Prof. Tomas Zima
- Aim: to promote molecular life sciences education in Europe
- **through the networking and collaborations of the FEBS Constituent Societies.**
- 22 Constituent Societies have designated their ambassadors who will participate.



## Aim and Objectives

- **Aim:** Promoting molecular life sciences education throughout Europe
- **Objectives:**
  1. Share information on FEBS educational issues
  2. Strengthen our communication
  3. Build efficient networks
  4. Define skills and knowledge
  5. Address standards



## Methods

- **Interactive lectures**
- **Short presentations**
- **Small group discussions**
- **Large group discussions**

## OVERVIEW of AGENDA PART 1 -1

- 13.00-13:15 Opening
- 13.15-14:00 Introductions-Expectations from the meeting/revision of the Agenda
- 14:00-14:30 Aim-Objectives of the Meeting  
Mission, vision & activities of FEBS ED-COM (G. Güner)
- 14:30-14:45 FEBS Education Platform (A. Herraez)
- 14.45-15:00 Discussion
- 15:00-15:30 Coffee break (The Foyer)

## OVERVIEW of AGENDA PART 1 -2

- Chair: Keith Elliott
- **15:30- 16:30 Reports from Ambassadors (Involvement of their Constituent Societies with educational activities)**
- 15:30-15:40 Prof. Rolf Heumann, Germany (Activities of the GBM Working group on Study Course in Molecular Life Science)
- 15:40-15:50 Prof. Aylin Sepici Dincel, Turkey (Educational Activities of the Turkish Society of Biochemistry)
- 15:50-16:00 Discussion on the proposal of Prof. Pawel Pomorski, Poland -the status and future of Journals on Biochemistry
- 16:00-16:10 Prof. Diana Petkova, Bulgaria (Educational Activities of the Bulgarian Society)
- 16:10-16:30 Open Floor for Other Contributions and Discussion

## **OVERVIEW of AGENDA PART 1 -3**

- Chair: Frank Michelangeli
- **16:30-17:00 Key Knowledge and Skills for Molecular Life Sciences Graduates: Results from FEBS Workshops (Cambridge, Paris, Belgrade, and Debrecen)**  
F. Michelangeli
- 17:00-18:00 Small Group Discussions (Divide Into 4 Groups)
- Group1: Key Knowledge and Skills expected from a Molecular Life Science Graduate (F. Michelangeli- K. Elliott)
- Group 2: Innovative Education Methods and New Technologies (F. Sagin S. Minchin)
- Group 3: Training the Trainers (Workshops/ Courses etc) ( G. Guner- L. Dux)
- Group 4: FEBS Research and Education Portal- Education Platform (A. Herraez)
- 18:00-18:30 General Discussion
- 18.30-20:30 Dinner (Karolinum, Reception Rooms)

## **FEBS EDUCATION COMMITTEE**

- **F MICHELANGELI .....(UK)**
- **F SAGIN.....(Turkey)**
- **L DUX.....(Hungary)**
- **J L SOUCIET.....(France)**
- **Chaired by G. GUNER**
- **Co-Opted: K ELLIOTT.....(UK)**  
**A HERRAEZ.....(Spain)**
- **Ex-Officio:**
- **I PECHT**
- **A FERSHT – W ESKILD**
- **B VERTESSY**

## **Societies Represented (22)**

**Belgium, Bosnia and Herzegovina,  
Bulgaria, Croatia, Czech Republic,  
France, Germany, Greece, Hungary,  
Israel, Italy, Latvia, Lithuania, Norway,  
Poland, Portugal, Serbia, Slovenia, Spain,  
Turkey, UK, Ukraine**

## **Committees / Working Groups on:**



Advanced courses

Education

Fellowship

Women in Science

Science and Society

Former East Europe countries (WGI)



## **FEBS Education Committee: Mission**

To promote education of the highest quality in  
Molecular Life Sciences in Europe **at both the  
under-graduate and postgraduate levels**

## **What We Do:**

- We arrange at least one education event at each FEBS Congress
- **We arrange other educational events such as workshops on educational issues in FEBS member countries on request:)**

## What We Do:

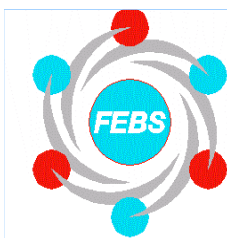
- We disseminate advice on educational resources
- We encourage the development of innovative teaching methods

**Prof. Edward J Wood**  
(1941-2008)  
**Founding Chair of FEBS Education Committee**



## FEBS EDUCATION WORKSHOPS (2008 - )

1. Sofia, Bulgaria, 17-18<sup>th</sup> October, 2008
  2. Cluj-Napoca, Romania, September 2009
  3. Athens, Greece, 14<sup>th</sup> May, 2010
  4. Opatija, Croatia, 18-19<sup>th</sup> September, 2010
  5. Tallinn, Estonia, 13<sup>th</sup> May, 2011
  6. Bratislava, Slovakia, 12-13<sup>th</sup> September, 2011
  7. Ljubljana, Slovenia, 3-4<sup>th</sup> November, 2011
  8. Izmir, Turkey, 29-30<sup>th</sup> March, 2012
  9. Yerevan, Armenia, 8-9<sup>th</sup> October, 2012
  10. Cambridge, UK, 17-18<sup>th</sup> December, 2012 (In Memory of E.J. Wood)
  11. Gdansk, Poland, 13<sup>th</sup> July, 2013
  12. Tbilisi, Georgia, 8-9<sup>th</sup> October, 2013
  13. Sofia, Bulgaria, 22<sup>nd</sup> November, 2013
  14. Istanbul, Turkey (Symposium) 24<sup>th</sup> August, 2014
  15. Belgrade Serbia, 18-19<sup>th</sup> September, 2014
  16. Debrecen, Hungary, 24-25<sup>th</sup> August, 2014
- 
17. Cambridge, UK, 30-31<sup>st</sup> March, 2015
  18. Sarajevo, Bosnia and Herzegovina, 3-4<sup>th</sup> September, 2015
  19. Oslo, Norway, 18-19<sup>th</sup> September, 2015
  20. Athens, Greece, 8-9 October 2015 (In Memory of C. Drinas)



# FEBS



**WORKSHOP:**

**“EDUCATION IN  
BIOCHEMISTRY”**

**Sofia,  
16-17 October, 2008**



**FEBS Workshop on Biochemistry and Molecular  
Biology Education:  
“Trends and Tips” 29-30th March 2012, Izmir, Turkey**



**FEBS Education WS - Belgrade 2014**



## WORKSHOPS 2015



- **Cambridge: March 30-31, 2015**  
(Jointly organised with the Biochemical Society)
- **Sarajevo: September 3-4, 2015**  
(Hosted by the Bosnia-Herzegovinian Society)
- **Oslo: September 18-19, 2015**  
(Hosted by the Norwegian Society)
- **Athens : October 2015, In memory of C. Drinas**  
( Hosted by the HSBMB)

## Enhancing Molecular Bioscience Education



30 – 31 March 2015  
Cambridge, UK

[www.biochemistry.org](http://www.biochemistry.org)

- Supervision and mentoring
- Alternative methods for teaching
- Mixed ability teaching
- Engaging with large teaching groups
- Interactive sessions with tablets

**Abstract deadline:** 26 January 2015  
**Early bird registration deadline:** 2 March 2015

**FEBS WS on Molecular Life Science Education**  
**Inauguration of the Association of Biochemists and Molecular Biologists in**  
**Bosnia and Herzegovina**  
**September 3-4<sup>th</sup>, 2015**  
**Sarajevo, Bosnia and Herzegovina**

**Venue: Faculty of Medicine University of**  
**Sarajevo**  
**(Hosted by Radivoj Jadric and Adlija Causevic)**

**From FEBS Education Committee:**

Keith Elliott (Manchester, UK)

Gül Güner Akdogan (Izmir, Turkey)

**With Kind Support of :**

Jerka Dumic (FEBS WGI) (Zagreb, Croatia)

and

Israel PECHT (FEBS General Secretary) (Rehovot, Israel)



**FEBS Workshop on Molecular Life**  
**Science Education**

**Inauguration of the Association of**  
**Biochemists and Molecular Biologists**  
**in Bosnia and Herzegovina**

3-4 September 2015 | Sarajevo  
Faculty of Medicine, University of Sarajevo

**Lecturers from FEBS Education Committee**

Keith Elliott (Manchester, United Kingdom)

Gül Güner Akdogan (Chair) (Izmir, Turkey)

**Supported by FEBS Officials**

Israel Pecht, FEBS General Secretary (Rehovot, Israel)

Jerka Dumic, FEBS Working Group on Integration (Zagreb, Croatia)

**For more information, follow our website at [ubmbubih.org](http://ubmbubih.org)**

Hosted by the Association of Biochemists and Molecular Biologists in Bosnia and Herzegovina  
(President: Prof. Adlija Causevic)

Coordinator of Workshop: Prof. Radivoj Jadric, General Secretary of the Association

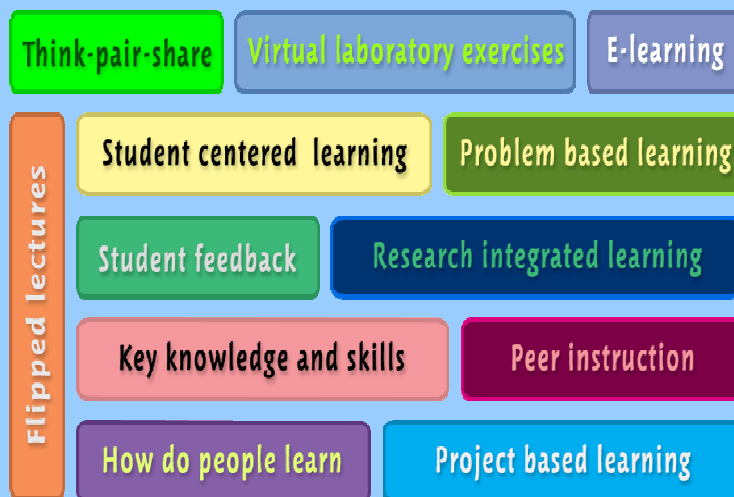
- **Main themes:**
- Curriculum planning
- Designing biochemistry practicals
- Research in undergraduate education (For BSc and MD students)
- PhD Training in Biomedicine and Health Sciences
- Support for young scientists
- **45 participants (both faculty and young scientists)**

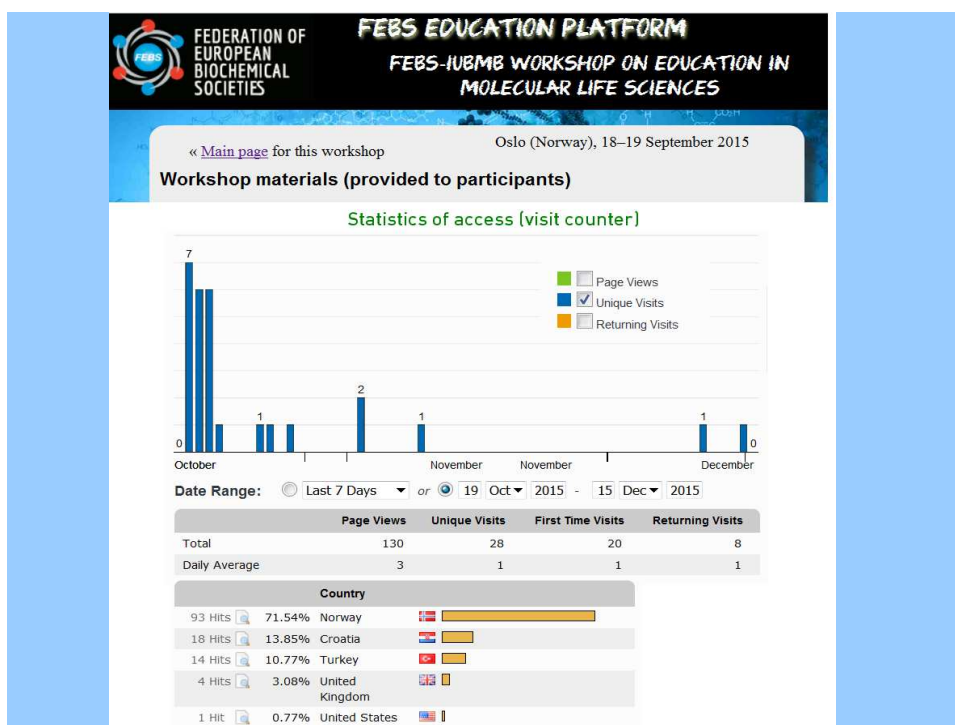


**FEBS-IUBMB WS on Molecular Life Science  
Education**  
September 18-19<sup>th</sup>, 2015  
Oslo, Norway

**(Hosted by the Norwegian  
Biochemical Society)**  
**Chaired by Winnie Eskild**

[www.biokjemisk.com/workshop-molecular-life-sciences](http://www.biokjemisk.com/workshop-molecular-life-sciences)







**Athens Workshop on Molecular Life Science  
Education in Memory of Costas Drinas  
8-9 October, 2015  
Athens, Greece**

**(Hosted by the HSBMB)  
Chaired by Dr. Dimitris Kletsas**

Speakers from FEBS:	Speakers from HSBMB:
Keith Elliott	Cristos Panagiotidis
Jason Perret	Cristos Stournaras
Mary Purton	Manolis Fragoulis
Gül Güner Akdogan (Chair)	Theodore Fotsis
	George Simos

## **Main Sessions:**

- **Research in Undergraduate Education : How to involve BSc and MD students in research**
- **Scientific Skills / Transferable Skills**
- **Problem-Based Learning**

**Participant Number: 60**

## **Topics Offered to the Constituent Societies of FEBS**

- Quality of education.....
- Postgraduate education.....
- Distance or E-learning.....
- Curriculum planning (eg for medical application, biotechnology, pharmaceutical industry, environmental applications).....
- Assessment and feedback.....
- Designing Laboratory practicals.....
- Problem-based learning.....
- Ethics Education.....
- Research in undergraduate education.....
- Scientific and Career Skills for Young Scientists.....
- PhD training: European Standards for Improvement
- Supervision in PhD Training.....
- Key Knowledge and Skills for Molecular Life Scientists.....
- Teaching Molecular Evolution.....
- Others(please,specify).....

## **COLLABORATION OF ED-COM WITH OTHER BODIES**

### **FEBS:**

- Working Group on Integration
- Advanced Courses Committee
- Publications Committee
- Working Group on Careers of Young Scientists (YSF)
- Constituent Societies
- IUBMB
- IFCC
- ORPHEUS

## FEBS Education Committee Events During Congresses

### 2002-Istanbul-28th FEBS Congress (organised by ISBMB)

**Symposium** on "Virtual Learning"

**Computer-Lab Activity** on "Virtual learning" (Activity of the FEBS Working Group on Teaching Biochemistry)

### 2004-Warsaw-29th FEBS Congress

**Workshop** on "Problem-Based Learning" (Activity of the FEBS Working Group on Teaching Biochemistry)

### 2005-Budapest-30th FEBS Congress

**Workshop:** "Laboratory Practicals" (Activity of the FEBS Working Group on Teaching Biochemistry)

### 2006-Istanbul-31th FEBS Congress

**Workshop** on "New Approaches to Post-graduate Education"

**Workshop** on "How to Write Successful Research Grants"

Data-base Searching-**Computer Lab**  
(Activity of the FEBS Working Group on Teaching Biochemistry)

### 2007-Vienna-32nd FEBS Congress

**Symposium:** "How to go from Biochemistry Research to Commercial Biotechnology"

**CV Clinics**

### 2008-Athens IUBMB-33th FEBS Congress

**Symposium:** "Post-Graduate Education" (With HSBMB)

**Workshop:** "E-learning"

**CV Clinics**

### 2009-Prague 34th FEBS Congress

**Workshop:** "Teaching Systems Biology"

**Workshop:** "Bioethics"(Co-funded with IUBMB)

**CV Clinics**

### 2010-35th Gothenburg FEBS Congress (In collaboration with IUBMB)

**Workshop:** "Research in Undergraduate Education" (Co-funded by IUBMB)

**Workshop:** "Research Oriented Education in High Schools"

**Workshop:** "Practical Systems Biology "(With the SSBMB)

**CV Clinics**

### 2011-Turin 36th FEBS Congress

**Workshop:** "PhD Training in Europe: Where Are We Heading?"

**Workshop:** "Integrating Molecular Bioscience Education with Medical Training"

**CV Clinics**

#### 2012-Seville-22nd IUBMB-37th FEBS Congress

**Workshop:** "Research into Effective Learning Strategies: What Biochemistry Is Learning from the Other Sciences"

**Workshop:** "Teaching Molecular Evolution: A Unifying Principle of Biochemistry"

**Workshop:** "Science in School: Biodiversity and Evolution "Co-funded with FEBS Science and Society Committee)

**CV Clinics**

**Poster Session** on Biochemistry and Molecular Biology Education

#### 2013-St. Petersburg 38th FEBS Congress

**Workshop:** "Molecular Life Sciences Education for the Needs of the Industry"

**CV Clinics**

**Poster Session** on Education in Molecular Life Sciences

#### 2014-Paris FEBS-EMBO Congress

**Workshop:** "Skills and Key Knowledge for a Molecular Life Scientist"

**Workshop:** "New Educational Technologies"

**CV Clinics**

**Poster Session** on "Education, Training, and Career Planning in Molecular Life Sciences"

#### 2015-Berlin FEBS Congress

**Workshop:** Research in Undergraduate Education and Poster Session

## Educational Events at Kusadasi (Turkey) FEBS 2016

- **Sunday 4 September, 2016, 12:30-14:30**
- **FEBS Special Session on Education — Improving the Learning Experience through Student Engagement**  
*(Lunch-boxes for participants attending the session to be served at the entrance of the meeting hall).*
- 12:30h - 12:40h **Introduction**
- 12:40h - 12:45h **Using the biology of learning to improve student engagement**  
Robin Wright, United States of America
- 12:45h - 13:15h **Team-Based learning**  
Ferhan Sağın, Turkey
- 13:15h - 13:45h **Flipped lectures, flipped practicals and flipped assessment**  
Jeremy Pritchard, United Kingdom
- 13:45h - 14:15h **General discussion**

**Associated WS: Beyond the Lecture: Helping Students Learn by Doing (15.30–17.30)**

## Educational Events at Kusadasi FEBS 2016 (Cont)

- **Wednesday 7 September (12:40-14:30)**
- **FEBS Special Session on Research and Career Skills — How to Write and Publish a Scientific Article**
  - The art (and science) of writing a scientific article, *Frank Michelangeli, UK*
  - What happens after the manuscript is submitted?, *Seamus Martin, Ireland*
  - Publication ethics, *Laszlo Fesus, Hungary*
  - General discussion
- **15:30-17:30 Associated Workshop**
- **FEBS Research and Career Skills Workshop — The Art and Science of How to Write a Scientific Paper**
  - (*Frank Michelangeli, Chester, UK, and FEBS Education Committee facilitators (Gül Güner Akdogan, Ferhan Sagin, Angel Herraiez)*)
- **Poster Session on Education, Training, and Career Planning in Molecular Life Sciences**

**KUSADASI, TURKEY, FEBS CONGRESS 2016**

**THANK-YOU, ALL !**

