



# FEPS

## Federation of European Physiological Societies

### FEPS NEWSLETTER

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## Letter of the Secretary General of FEPS

Message from the Secretary General.

I'm glad to inform you that the preparations of the FEPS 2012 Congress are in full swing.

The meeting will be held in Santiago de Compostela in Galicia in the North-Western part of Spain.

The meeting starts on September 8 with, among others, the traditional European Young Physiologists Symposium (EYPS) and ends on September 11. Our Spanish colleagues succeeded organizing at least 18 scientific symposia with well-esteemed international speakers.

Each day a renowned scientist will present a plenary key-note lecture on an top-notch physiological subject. You will find more information on the Congress in this FEPS Newsletter and on the Website of the Congress: [www.FEPS2012.org](http://www.FEPS2012.org).

Please note that the final date for submitting abstracts is set at May 7.

The city of Santiago de Compostela is located in a wonderful region of Spain, not far from the border with Portugal. When you decide to attend this meeting, don't hesitate to spend a couple of days longer to experience the beauty of Galicia and surroundings.

Ger van der Vusse  
Secretary General of FEPS



## Message from Carlos Dieguez, chairman of the FEPS 2012 Congress in Santiago de Compostela

Dear FEPS members:

The 2012 FEPS congress will take place from Saturday, September 8 through Tuesday, September 11, at the School of Medicine, Santiago de Compostela, Spain.

At this year's congress we will have a very exciting and stimulating scientific program. The agenda is well balanced in terms of different types of learning environments; we will have Plenary Lectures, Symposia, and Oral and Poster Sessions on a variety of timely topics. We will also be able to gather for formal and informal scientific discussions and share our valuable experiences.

This opportunity to learn from each other in such a beautiful setting is not to be missed. Rekindling old friendships and making new friends is one of the high points of every FEPS meeting.

The Scientific Committee invites authors to submit abstracts for selection and inclusion in the Scientific Programme. The deadline for submission of abstracts is **7th of May, 2012**. Please visit our web page ([www.feps2012.org](http://www.feps2012.org))

### HERE ARE SOME OF THE HIGHLIGHTS:

- Pre-meeting symposium:

*Sensory physiology, a window to the brain.* (September 8, 10.00-14.00h)

- Plenary Lectures

*Dendritic Spines and Distributed Circuits. Rafael Yuste (New York, EEUU)  
The neurobiology of food intake and food addiction. Suzanne Dickson (Gothenburg, Sweden)*

*Spying the molecular workings of ion channels using fluorescence. Ramón Latorre  
(Valparaíso, Chile)*

*ATP-sensitive K channels, from molecule to disease. Frances Ashcroft (Oxford, UK)*

- 18 Symposia

Including the Joint American Physiological Society and FEPS/Spanish Physiological Society Symposium and The Physiological Society Symposia.

- FEPS Young Investigator Symposium (September 8, 13.00-18.10h)

Including two Keynote Speakers:

Cellular sensors and mTOR. Daniela Cota (Bordeaux, France)

Physiological aspects of gastrointestinal hormones. Matthias Tschoop (Munich, Germany)

Santiago de Compostela is a city with many attractive features for visitors and usually excellent weather conditions at the date the Congress will be held.

We sincerely hope that you will come to join the physiologists of the world at this most important event for international physiology.

See you soon in Spain.

Prof. Carlos Diéguez  
Congress President

## Programme of the FEPS2012 Congress to be held in Santiago de Compostela, Spain, September 8–11, 2012

The emphasis of the Congress will be on developing a highly attractive Program with a **Transdisciplinary** approach, high in **Translational** value and being representative of the **Transnational** activity developed in Europe.

The Congress starts with the traditional EYPS: the European Young Physiologists Symposium Tentative programme of EYPS on Saterday September 8:

13:00–13:45 Registration / Refreshments (lunch/sandwich)

13:45–14:00 Welcome and Introduction

### Session 1: 14:00–15:30

14:00–14:30 Keynote Speaker 1:

**Dr Daniela Cota**, Université de Bordeaux, France  
“Cellular sensors and mTOR”

14:30–15:30 Young Investigator Award Competition

(4 x 15 min oral presentations of HOT TOPIC awardees)

15:30–16:00 Coffee Break

### Session 2: 16:00–17:30

16:00–16:30 Keynote Speaker 2:

**Dr Matthias Tschöp**, Technical University of Munich, Germany  
“Physiological aspects of gastrointestinal hormones”

Young Investigator Award Competition

16:30–17:30 (4 x 15 min oral presentations of HOT TOPIC awardees)

**Opening Ceremony** 17:40–18:10 Main Meeting + **FEPS Young Investigator Award Ceremony**

**Keynote Lecture** 18:10–19:00 Plenary Lecture (main meeting)

**Welcome reception** 19:30–22:00 All invited

- the Young FEPS Symposium is included in the registration fees (no additional fee will be charged).
- Registration and abstract submission dates and procedures are the same as the FEPS 2012 Congress; please refer to the main page.
- When submitting your abstract, please indicate that you would like to compete for the FEPS Awards (oral, poster or both).

### Young FEPS Organizing Committee

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### Additional activities are:

**Sensory physiology: a window to the brain** (Organizers: Javier Cudeiro. NEUROcom (Neuroscience and Motor Control group). University of A Coruña, Spain; Adam M. Sillito. Institute of Ophthalmology. UCL, London. UK)

## GENERAL LAY-OUT OF THE SCIENTIFIC PROGRAMME

An Opening Ceremony will be organized for the evening of the same day.

The main programme will take 3 days and consists of:

- **Plenary Lectures**

- **Symposia** (mornings and afternoons)

- Oral and Poster Communications

- Special (thematic / methodological) workshops.

### Dendritic Spines and Distributed Circuits

**Rafael Yuste**

Professor Howard Hughes Medical Institute

Department of Biological Sciences

Columbia University

New York

### The neurobiology of food intake and food addiction

**Suzanne Dickson**

Professor of Physiology/Neuroendocrinology

Dept Physiology/Endocrinology

Institute of Neuroscience and Physiology,

The Sahlgrenska Academy at the University of Gothenburg, Sweden

### JUAN NEGRÍN LECTURE

#### Spying the molecular workings of ion channels using fluorescence

**Ramón Latorre**

Director del Centro Interdisciplinario de Neurociencia de Valparaíso

Profesor Titular del CINV y del Departamento de Neurociencia

Associate Scholar, University of Chicago

Profesor Adjunto, University of California, Los Angeles

### FEPS LECTURE

#### ATP-sensitive K channels, from molecule to disease

**Frances Ashcroft**

GlaxoSmithKline Royal Society Research Professor

University Laboratory of Physiology, Oxford

Symposia

#	Title	Chairpersons	Speakers
1	<b>Joint American Physiological Society and FEPS/ Spanish Physiological Society Symposium</b>	Joey Granger; Jose Miguel Lopez- Novoa	Curt Sigmund; Ananth Karamanchi; Jennifer Pollock; Javier Salazar
2	<b>Calcium Activated Cl- Channels in Health and Disease (The Physiological Society Symposium)</b>	Bonnie Blazer-Yost; Deborah Baines	Criss Hartzell; B Blazer-Yost; Iain Greenwood
3	<b>Molecular physiology of ageing and longevity (The Physiological Society Symposium)</b>	Jose Vina; Giovanni Mann	Tom Kirkwood; David SAS-son; Claudio Franceschi; Jose Vina
4	<b>Brain peripheral interaction in reproduction during life span</b>	Nelly Pitteloud; Manuel Tena-Sempere	Matti Poutanen; Nelly Pitteloud; Manuel Tena-Sempere; Valerie Simonneaux
5	<b>The cardiac sarcoplasmic reticulum in health and disease</b>	Katharine Dibb; David Eisner	Andrew Trafford; Gudrun Antoons; Stephan Lehnart; Sian Harding
6	<b>Mechanisms of Dopaminergic Neurodegeneration</b>	Emilio Fernandez Espejo; José Chacón	Emilio Fernandez; Cristine Alves da Costa; José Chacón; Andrew Lees
7	<b>Aquaporins and Epithelial channels in health and diseases</b>	Miriam Echevarría; Diego Alvarez	Gema Frühbeck; Giovanna Valenti; Graça Soveral; Gustavo Frindt
8	<b>Endothelium in diseased states</b>	Iveta Bernatova; Silvia Arribas	Ramaroson Andriantsitohaina; Nicole Lüneburg; Julio Brito; Josef Zicha
9	<b>Advances in Aging and Mitochondria Research</b>	Darío Acuña; Luis C López	Russel J Reiter; Erich Gnager; Paolo Bernardi; Germaine Escames
10	<b>Intracellular calcium signalling</b>	Ole H. Petersen; Gines M. Salido	Ole H. Petersen; Anant Parikh; Javier García-Sancho; Fabiana Perocchi

11	<b>Energy Homeostasis</b>	Rosa Señarís; SM Luckman	K.Herzig, J.Hidalgo; SM. Luckman; R. Señarís
12	<b>New insights in thyroid hormone action</b>	J Nedergaard; M López	Jan Nedergaard; Krish Chatjee ; Ana Aranda ; Eric Fliers
13	<b>Energy sensors, thermoregulation and brown adipose tissue</b>	Rubén Nogueiras; B. Cannon	Barbara Cannon; Antonio Vidal-Puig; David Carling; S.Enerback
14	<b>Teaching physiology. Pros and cons of traditional vs. innovative methods and curricula</b>	C. Gonzalez; G van der Vusse	Tamas Ivanics; Sunčana Kukolja Taradi; Victor Arce; Beatriz Gal
15	<b>Progress in Respiratory Physiology</b>	Prem Kumar; Mª Rosario Pásaro	Paul Kemp; Silvia Conde; Ana Obeso; Francisco Perez-Vizcaino
16	<b>Update on fertility and reproduction</b>	Susan Wray; Karen Noble	Karen Noble; Abigail Fowden; Mats Brännström; Alexander Sirotkin
17	<b>Targeting glucose homeostasis: novel players</b>	M Paula Macedo	F. Mallo; J Jones; R Seiça, P. Macedo
18	<b>Pathophysiology of the cardiac electrical activity</b>	José Jalife; Antonio Alberola	Francisco Chorro; Héctor Valdivia; Luis Such; José Jalife

For further information please visit the website of the Congress: [www.FEPS2012.org](http://www.FEPS2012.org)

## Famous European Physiologists: Kemal Djenap Berksoy, Turkey

### KEMAL DJENAP BERKSOY, A TURKISH NOBEL PRIZE NOMINEE

Kemal Djenap was born in Üsküdar, an old district of Istanbul at the Asian side of the Bosphorus, in 1876. He studied Medicine in Istanbul and obtained his medical degree in 1897.

In the same year he started his scientific career as research assistant in the Department of Physiology of the Istanbul Üniversitesi. Two years later he was promoted to assistant-instructor and in 1903 to vice-instructor.

Kemal Djenap went to France in 1909 and joined the research group of Jean Pierre Morat in Lyon and Eugène Émile Gley at Collège de France in Paris. After his return to Turkey, he constructed a well-equipped physiology laboratory.

After Şakir Paşa passed away in 1909, Kemal Djenap became the head of Physiology Institute and remained at this position for 24 years.

During the Balkan War (1912-1913), he was sent to Edirne at the border with Bulgaria to organize the medical and health services of the Ottoman army.

Thereafter, he went to Germany in 1917 and, as visiting professor in Berlin, he cooperated with Adolf Bickel at the Institute of Pathological Physiology, with William Cramer at the Institute of Veterinary Physiology, with Carl Neuberg at the Kaiser Wilhelm Institute, and with Heinrich Johannes Borutta at the Friedrichshain Hospital mainly on the fields of the electrocardiography and electrophysiology.

In 1932, he was nominated for the Nobel Prize for Physiology and Medicine for his scientific work on the endocrine system by Hamdi Suat (Akınar). Pre-evaluation of Kemal Djenap was performed by Hans Gertz and Kemal Djenap became one of the nominees in 1932.

In that year, however, the prize was awarded to Edgar D. Adrian and Charles S. Sherrington for their studies on the nervous system.

Kemal Djenap experienced both the privilege to be a Nobel Prize nominee as well the opportunity to nominate other scientists for this prize. Every year, the Noble Price Institute selects prominent scientists with the request to nominate candidates for the most prestigious price in medical and physiological sciences. In 1942, Kemal Cenap Berksoy received a letter from the Nobel Prize Institute and he proposed German scientist Adolf Bickel as the nominee of that year.

During the University Reform in 1933, Kemal Djenap Berksoy quitted the university a short period of time for unknown reasons, but resumed his academic work shortly thereafter.

During his absence, Prof.Dr. Hans Winterstein was appointed as director of the Physiology Institute. After Kemal Djenap's return, the institute was divided into two separate departments: General Physiology under the directorate of Hans Winterstein and Human Physiology under the directorate of Kemal Djenap Berksoy.

Kemal Djenap attended the XVth International Physiology Congress in Moscow in 1935 and presented a study on gastroduodenal reflex. He suddenly became ill in Moscow and had to undergo brain surgery. Two years later, he was able to attend the XVII International Physiology Congress in Zurich.

In 1943, he retired due to age-limit and one year later he was elected as the Istanbul deputy. He continued as the Yozgat deputy. He passed away on 28 November 1949 in Ankara and his remains were buried in this city.

Kemal Djenap Berksoy made important contributions to digestive physiology and circulatory physiology. His studies on secretin have drawn international attention.

His scientific work on the “heart hormone” are generally considered as seminal studies on Atrial Natriuretic Peptide (ANP).

Kemal Djenap Berksoy was in particular interested in medical terminology and in the Turkish translation of medical terms. He offered the word “göze” for “hücre” which means cell. He was preparing a medical dictionary with Hüseyinzade Ali Bey, but this work was not completed.

Kemal Djenap was a good teacher: he really loved teaching. He always updated his lecture notes and books. In particular, Kemal Djenap made important contributions to stimulate female students to enter the medical school. His assistant and co-worker Sadi Irmak wrote that Berksoy was an excellent teacher under difficult conditions. Teaching was his life. I still remember his lectures given with 38 degrees fever and lung edema due to a liter of water in his chest.

According to Prof. Irmak, he was a gentle, kind and sensitive man; in his private life he was unhappy, but within the walls of his laboratory he was able to forget all his troubles.

According to Prof. Winterstein, Kemal Djenap was active and somewhat irritated. *“He was usually very charming, making jokes and sometimes became nervous for small things. A gesture of a student could bereave him of a whole night sleep.”*

Akgün listed 40 papers and 20 books written by Berksoy:

- 1-Mebâdi-i Fenn-i Menafî'l-âzâ. Mekteb-i Tibbiye-i Şâhâne Matbâası, İstanbul, 1905.
- 2-Fizyolojiyahud Fenn-i Vezâifü'l-âzâ, Matbâa-i Hayriye ve Şürekâsı, İstanbul, 1909.
- 3-Fizyoloji. Hazîm Bahsi. Cihan Matbaası; İstanbul 1909.
- 4-Fizyoloji-i Nazarî Dersleri 1. Kitap. Edebat Matbaası - Matbaa-i Hayriye, İstanbul, 1909.
- 5-Fizyoloji-i Nazarî Dersleri 2. Kitap. Edebat Matbaası - Matbaa-i Hayriye, İstanbul, 1909.
- 6-Ameli Fizyoloji Dersleri. Matbaa-i Tibbiye-i Askeriye, İstanbul, 1910.
- 7-Fizyoloji-i Griziyat. Kader Matbaası, İstanbul, 1914.
- 8-Fizyoloji Laboratuvarı Rehberi. Kader Matbaası, İstanbul, 1919.
9. Programme détaillé du cours pratique de physiologie à la faculté le médecine de Constantinople. İstanbul, 1925.
10. Türkçede İlmi İstilahlar Meselesi Kader Matbaası, İstanbul, 1929.
11. Fisiologi Müessesesi Faaliyet ve Neşriyat ve Tekamül projesi (1909-1930). Ahmet İhsan Matbaası, 1930.
12. İstanbul Darülfünunu Tip Fakültesi Fisiologiya Institut' u yeni Tesisati ve Derslere Açılmaya Hatırası 1931.
13. Enseignement Pratique de Physiologie a la Faculte de Medicine de l'Université d'Istanbul au cours de l'année scolaire 1933-1934.
- 14.-İnsan Teşrif Modeli Erkek. Kanaat Kitabevi, İstanbul, 1934.
- 15-İnsan Teşrif Modeli Kadın. Kanaat Kitabevi, İstanbul, 1934.
- 16-Fisiologi (Birinci Kısım). A. İhsan Basimevi, İstanbul, 1934.
- 17-İnsan Anatomi Modeli ve Terimleri Erkek. (Zeki Zeren ile). Kanaat Kitabevi, İstanbul, 1938.
- 18-İnsan Anatomi Modeli ve Terimleri Kadın.(Zeki Zeren ile). Kanaat Kitabevi, İstanbul, 1938.
- 19- Beşeri Fizyoloji Ders Kitabı (Birinci Cilt). Kenan Matbaası, İstanbul 1941.
- 20- Beşeri Fizyoloji Ders Kitabı (İkinci Cilt). İstanbul Üniversitesi Yayıncılık. Kenan Matbaası, İstanbul, 1943.

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6. Akgün B: Üsküdarlı Bir Hekim: Ord. Prof. Dr. Kemal Cenap Berksoy (1876-1949).  
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8. Yaprak M: Hans Winterstein: Turkey years and Social aspects. I. International Congress on the Turkish History of Medicine, 20-24 May 2008, Konya.
9. [http://nobelprize.org/nobel\\_prizes/medicine/nomination/nomination.php?action=show&showid=1351](http://nobelprize.org/nobel_prizes/medicine/nomination/nomination.php?action=show&showid=1351)  
Winterstein H: "Kemal Cenab Hatırasına", İst. Tıp Fak. Mec., 12/4, İstanbul 1949, 661-664.  
Irmak S: Fizyoloji Enstitü ve Üç Şefi: Şakir Paşa, Kemal Cenap, Winterstein: İ Üniversitesi Tıp Fakültesi mecması, cilt 20, sayı: 4, 598-600, 1957.  
Bayat AH: Hüseyinzade Ali Bey / Kemal Cenab'in Tıp Lugati:  
Ünver AS: Göze-hücre tabiri hakkında. Tedavi Kliniği ve Laboratuari Mecmuası 15: 130-31, 1934.

#### International Literature

**Kemal Djenab:** Contribution a l'étude de l'action de la moelle cervicale dans la piqûre diabetique chez le chien. *Comptes Rendus des Séances de la Société de Biologie*, Tome LXIX, 910 (26), 1912.

**Kemal Djenab:** Traces hemautographiques cardio-arterielles superposes *Comptes Rendus des Séances de la Société de Biologie*, Tome LXIX, 912 (13), 1912.

**Kemal Djenab:** Über bildungsort und schicksal des sekretins für das pankreas im Körper. *Berliner Klinische Wochenschrift*, 26, 1917.

**Carl Neuberg, Kemal Djenab:** Über die saccharophosphatase der hefen und die vergarung der rohrzuckerphosphorsaure. *Biochemische Zeitschrift*, 82 (5), 391-411 1917.

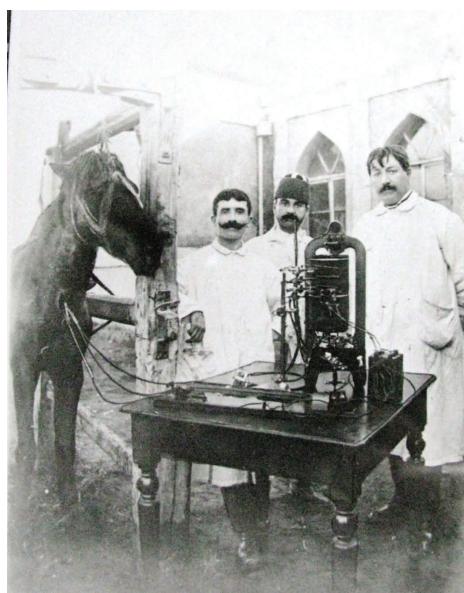
**Kemal Djenab:** Étude sur la sécrétine. *Annales de Médecine*, 12 (6), 475-9, 1922.

**Kemal Djenab:** Sur un reflexe gastro-duodenal. *Jour. Physiol et Path Gen*, 37(1): 83-85, 1939.

**K. Djenab A. Mouchet:** Etudes expérimentales sur les injections intracardiaque. *Bulletin de l'Academie de Médecine*, 89:697-700, (June 26) 1923.

**K. Djenab, A. Mouchet:** Nouvelles recherches sur les injection intracardiaques. *Bulletin de l'Academie de Médecine*, 93:910-911, (July 15) 1924

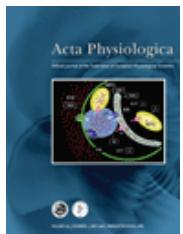
**K. Djenab A. Mouchet:** Action humorale de l'extrait du Faisceau de His sur la pression arteriele. *Bulletin de l'Académie de Médecine*, 93; 60-63, (Jan 6) 1925.



Kemal Djenap (at the left) and his colleagues measuring venous pressure in a horse (1910)



Kemal Djenap with colleagues at the Istanbul Universiti in 1943



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