



# FEBS NEWS

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## For Your Information

by Camilla Krogh Lauritzen,  
FEBS Information Manager  
FEBS Secretariat,  
co/the Danish Cancer Society  
Strandboulevarden 49, DK-2100, Denmark  
E-mail: [camilla@febs.org](mailto:camilla@febs.org)  
FEBS website: [www.FEBS.org](http://www.FEBS.org)



Dear Colleagues,

As you might already have noticed, this issue of FEBS News looks different. The new layout marks a slightly renewed FEBS News with new content elements and features. All of which are inspired by the feedback we get from you, our members and readers (thank you very much for this).

Each year the FEBS Secretariat responds to more than 8,000 enquiries from FEBS members. One of the new features in this issue, is the section named "FEBS Q&A" (p.2); this section contains information, which reflects answers to the most popular questions raised by FEBS members to the FEBS Secretariat.

Another new section is "FEBS Debate"; a section for invited and uninvited debaters to ventilate topics related to science and science policy making. If you have a view that you believe qualify for the "FEBS Debate" page, do let me know.

In the near future I will present to you other new initiatives that my colleagues and I believe you will find interesting and valuable - I will keep you posted.

Kind regards,

Camilla

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### About FEBS News:

- FEBS News is published every second Monday in every second month (starting January).
- E-mail alerts containing a link to FEBS News, are send to approx. 16,000 subscribers in more than 50 countries, whenever a new issue is out.
- To subscribe, unsubscribe or change your contact details simply send an e-mail to [newsletter@febs.org](mailto:newsletter@febs.org), stating "subscribe", "unsubscribe" or "change" in the subject line. You can also subscribe on-line at [www.febs.org/e-mail\\_registration.asp](http://www.febs.org/e-mail_registration.asp). Do notice that we will not distribute, in any way, your data to third parties without your consent.
- As a service to our more than 40,000 members, FEBS offers **FREE** advertising of academic positions (PhD's, Post Doc's and Senior Post Doc's) in this newsletter and at our website.
- This issue as well as all back issues of FEBS News are available online at [www.FEBS.org](http://www.FEBS.org)
- Question and enquiries about FEBS News should be addressed to Camilla Krogh Lauritzen ([camilla@febs.org](mailto:camilla@febs.org)).
- Next issue will be out on **November 14, 2005**. Deadline for entries (all types) is **November 4, 2005**.



## FEBS Q&A

### FEBS FELLOWSHIPS STATUS 2004

In 2004, FEBS granted a total of **558** fellowships to young scientists; 58 of these were Long-Term Fellowships, 49 were Short-Term Fellowships, 12 were Summer Fellowships, 17 were Collaborative Experimental Fellowships, and 297 were Youth travel funds. Finally, 125 fellowships to attend the annual FEBS Congress in Warsaw was granted.

Obviously, this is quite a record for a European organisation that receives no external funding, and indeed we would not be able to continuously provide this level of support, had it not been for FEBS Journal and FEBS Letters, and all our authors. So, a big "Thank You" from us to you; by choosing the FEBS publications you indeed help us to promote science in Europe, so keep the papers coming! Read more about the many reasons why you should continue doing so at [www.febsjournal.org](http://www.febsjournal.org) and [www.febsletters.org](http://www.febsletters.org)

### FEBS FORUM FOR YOUNG SCIENTISTS

In connection with the annual FEBS Congress, FEBS each year brings more than a hundred young scientists together for a two-day Satellite meeting. The latter offers an exclusive opportunity to network and knowledge exchange, and is fully sponsored by FEBS, meaning that all successful applicants receive a FEBS Fellowship covering local expenses at the Forum (fees, transportation, meals, accommodation in a double room). Furthermore, they will be given free registration, accommodation, and partial travel support related to the actual FEBS Congress that follows the Forum. If you would like to read more about FEBS Forum for Young Scientists in connection with our 2006 Congress, please check out the "FEBS Young Scientists Forum" menu at the FEBS 2006 Congress website ([www.FEBS2006.org](http://www.FEBS2006.org)).

Please notice that deadline for applications to FEBS Forum for Young Scientists 2006 is **January 13, 2006**.

### FAQ'S ABOUT FEBS FELLOWSHIPS AT FEBS BULLETIN BOARD

Do you need information or answers related to FEBS Fellowships? Then you might find what you are looking for within FEBS Bulletin Board; our e—discussion forum at [www.febs.org/FebsBB](http://www.febs.org/FebsBB). Within the forum named "Fellowships" you will find questions and answers about our eligibility criteria etc.

### FEBS MEMBERSHIP AND PRIVILIGES?

Every month we get several enquiries from scientists that would like to know how to become a member of FEBS, and what a membership of FEBS implies.

The answer is simple:

- 1) Membership of any of our 42 member societies (constituent or associated) = automatic membership of FEBS. In other words: Membership of FEBS is included in being a member of any of our listed member societies. You will find the list of these at [www.FEBS.org](http://www.FEBS.org)
- 2) As a member of FEBS you can apply for e.g. fellowships, grants and participation in our Advanced Courses. This privilege is yours **from day one of your membership**.

If you have questions regarding membership and membership privileges, you can read about this in our Statutes and Guidelines. You will find the latter at our website. You are also welcome to contact the FEBS Secretariat ([secretariat@febs.org](mailto:secretariat@febs.org))



## the Message Board

### INFO MISSING ON TWO WINNERS OF A FREE FEBS CONGRESS REGISTRATION!

In connection with the annual FEBS Congress in Budapest in July, a draw took place at the FEBS stand each day, and a total of ten free registrations were given away. However we have not been able to get in contact with two of these winners, namely

**Julia Sadovnikova** (Russia)

**Rigini Papi** (Greece)

If you are (or know) Julia or Rigini, please send an e-mail to Inge Detlefsen, FEBS Secretariat, ([secretariat@febs.org](mailto:secretariat@febs.org)) and provide her with their contact details.

### ARE YOU INTO PROTEINS?

Then you should check out [www.proteinatlas.org](http://www.proteinatlas.org) — a human protein atlas, in the form of a free database, with an amazing level and amount of protein data (text and images).

### "TIP OF THE MONTH" - SHARE YOUR KNOWLEDGE AND WINN A 128 MB FEBS MEMORY STICK!

What is **your** favourite e-source of knowledge? Send us the link to the website that you find most useful as a scientist, include a few words on why you find it particular useful, and you might win a large capacity memory stick to store your e-data (such as huge PowerPoint presentations) on!

"TIP OF THE MONTH" is a new feature in FEBS News; each month we will pick one winning link ("tip of the month"). The winning links, and the name of the FEBS member that has provided it, will be presented in this section of FEBS News. Each winner/FEBS member will receive a 128 MB memory stick carrying the FEBS logo (see picture).

If you would like to share your favourite link and get a chance to win the memory stick of the month, please enclose the link/url, your name and your FEBS membership details (the name of your local society) in an e-mail, and send this to [newsletter@febs.org](mailto:newsletter@febs.org). Please state "link" in the subject line of your e-mail.

Deadline for sending candidate links to the September/October draw is November 4.

The first two links (and the name of the respective winners and society affiliations) will be presented in the November issue of FEBS News out on November 14.





## News from the FEBS Journal

**the FEBS  
Journal**

Formerly known as EJB (European Journal of Biochemistry)

Dear Fellow Scientists,

The summer draws on but much scientific activity has been recorded, not least the very successful 30<sup>th</sup> FEBS Congress (and 9<sup>th</sup> IUBMB Conference) held in Budapest from 2-7 July 2005. The first *FEBS Journal* Prize of 10,000 euros to younger scientists was awarded to Mr Christian Klammt (Frankfurt) at a special ceremony at the Congress. We look forward to awarding the prize again next year for papers published during 2005. See the journal website, [www.febsjournal.org](http://www.febsjournal.org) for details.

### Impact Factor

The latest Impact Factor released for EJB (June 2005) was 3.260. This is a significant rise from the value of 3.001 published in 2004. We do not take the impact factor as being the only criterion of quality (see the Editorial in *Nature* **435** 1003, 23 June 2005) but we are pleased to note also that the high long-term quality of the papers in EJB (and now *FEBS Journal*) continues; the half-life of citations of papers in EJB is the longest of any journal in the molecular life sciences other than the major review sources (*Annual Reviews*, etc).

### New members of the Editorial Advisory Board of *FEBS Journal*

We are very pleased to welcome several new members of the Editorial Advisory Board: David Carling (London), Paul Clarke (Dundee), Eric Forest (Grenoble), Albert Heck (Utrecht) and Ursula Klingmüller (Heidelberg). These new appointments will add to our strengths in the areas of molecular cell biology (signal transduction, cell cycle, apoptosis, cancer), protein-protein interaction and proteomics.

### Reviews in *FEBS Journal*

The following reviews have appeared in recent issues of *FEBS Journal*:

*Histone H2A phosphorylation in DNA double-strand break repair* by ER Foster and JA Downs (Vol. 272/13)

*Diego and friends play again. Old planar cell polarity players in new positions* by J Mihály, T Matusek and C Pataki (Vol. 272/13)

*Long-distance interactions between enhancers and promoters. The case of the Abd-B domain of the *Drosophila bithora* complex* by L Sipos and H Gyurkovics (Vol. 272/13)

*Integrating signals between cAMP and the RAS/RAF/MEK/ERK signalling pathways* by N Dumaz and R Marais (Vol. 272/14)

*Origins of DNA replication in the three domains of life* by NP Robinson and SD Bell (Vol. 272/15)

The Theodor Bücher Lecture (2004): *Mitochondrial calcium signalling in cell death* by S Leo, K Bianchi, M Brini and R Rizzuto (Vol. 272/16)

You can read reviews online and download them free of charge from the time of publication. All reviews published in EJB and *FEBS Journal* can be accessed free of charge on the *FEBS Journal* online websites: the Blackwell Publishing service Synergy (<http://www.blackwell-synergy.com/>) and the Highwire platform, <http://content.febsjournal.org> and <http://highwire.stanford.edu/>. These sites are easily reached by hotlinks from the *FEBS Journal* website.

The following minireview series will shortly be appearing in *FEBS Journal*:

*A vital link between energy and signal transduction: Regulatory functions of NAD(P)*. The series is coordinated and introduced by Mathias Ziegler and comprises:

*Second messenger function and structure-activity relationship of cyclic adenosine diphosphoribose (cADPR)* by Andreas H Guse

*Small molecule regulation of Sir2 protein deacetylases* by Olivera Grubisha, Brian C Smith, and John M Denu

*Calcium signalling by NAADP* by Michiko Yamasaki, Grant C. Churchill and Antony Galione





## News from the FEBS Journal

the **FEBS**  
Journal

Formerly known as EJB (European Journal of Biochemistry)

(continued..)

*Poly(ADP-ribose): The most elaborate metabolite of NAD<sup>+</sup>* by Alexander Bürkle

*Physiological relevance of the endogenous mono-ADP-ribosylation of cellular proteins* by Maria Di Girolamo, Nadia Dani, Annalisa Stilla and Daniela Corda

*Meet the serpins.* The series is coordinated and introduced by Robert Medcalf and comprises:

*Control of the coagulation system by serpins: getting by with a little help from glycosaminoglycans* by Robert N. Pike, Ashley M Buckle, Bernard F le Bonniec and Frank C Church

*The undecided SERPIN: the ins and outs of plasminogen activator inhibitor type 2* by Robert L. Medcalf and Stan J. Stasinopoulos

*Antiplasmin: the forgotten serpin?* by Paul B. Coughlin

### Forthcoming reviews:

*3-Hydroxyacyl-CoA dehydrogenase and short-chain 3-hydroxyacyl-CoA dehydrogenase in human health and disease* by Song-Yu Yang, Xue-Ying He and Horst Schulz

*Dynammin-related proteins and Pex11 proteins in peroxisome division and proliferation* by Sven Thoms and Ralf Erdmann

*Histones in functional diversification: core histone variants* by Rama-Haritha Pusarla and Purnima Bhargava

### Meetings reports

We remind you that reports of meetings are welcome in the journal. A report should give a proper introduction to the field, what the hot topics are, what the major advances appeared to be, and some critical summing up of the field on the part of the author of the report. Thus it should resemble a review, but be centred on a meeting. All topics in the general area of the

molecular life sciences are welcome. Prospective authors should consult the Reviews Editor (Ferdinand Hucho) or the Editor-in-Chief (Richard Perham).

To accompany the minireview series on serpins outlined above, we will be publishing a meeting report: *Serpins 2005 - Fun between the beta-sheets* by James C Whisstock, Stephen P Bottomley, Philip I Bird, Robert N Pike and Paul Coughlin.

### Mathematical model database

Mathematical models from papers published in EJB and the *FEBS Journal* are available on the mathematical modelling website linked to *FEBS Journal*. You can access and try them out free of charge online (<http://jjj.biochem.sun.ac.za/database/index.html>). Full details of how to submit models for inclusion on the mathematical model database can be found in our Instructions to Authors at [www.febsjournal.org](http://www.febsjournal.org) and at the relevant website, <http://jjj.biochem.sun.ac.za/febsj>

Paper with mathematical models recently published in *FEBS Journal*:

*Protein glycation in Saccharomyces cerevisiae: Argpyrimidine formation and methylglyoxal catabolism* by Ricardo A Gomes, Marta Sousa Silva, Hugo Vicente Miranda, António E N Ferreira, Carlos A A Cordeiro and Ana Ponces Freire (Vol. 272/17)

We hope you have had a pleasant and productive summer and will enjoy browsing *FEBS Journal* through the autumn,

Richard Perham, Chairman of the Editorial Board  
Vanessa Wilkinson, Editorial Manager  
Gail Entwistle, Deputy Editorial Manager  
Jane Bartolozzi, Editorial Secretary  
Juanita Goossens, Editorial Secretary  
Ilana Wooster, Editorial Secretary



## News from FEBS Letters

# FEBS *Letters*

Dear Fellow Scientist,

We are pleased to announce that this month FEBS Letters will become fully electronic. Full-electronic submission is something that we at FEBS Letters have been striving at for a few years now, as this will make the whole publication process much faster and more efficient for our authors. With the introduction of the new system, accepted manuscripts will be available online (and therefore citable) 3-5 days after acceptance. This means that FEBS Letters remains at the forefront as a rapid publication journal.

Those of you who regularly submit manuscripts to FEBS Letters may notice that the online submission system has a new look. This is because in order to achieve full electronic submission we had to move to a new online submission system, called the Elsevier Electronic System (EES). From now on, all new manuscripts should be submitted to:

<http://ees.elsevier.com/febsletters>

As you can imagine changing systems was a lot of extra work for the editorial office, but we had excellent support from our publisher in getting the new system up and running so quickly. The change will also present a new challenge for our editors who will have to get used to working with a new system. We are lucky to have such flexible editors who as well as being some of the top scientists in their field, are also computer savvy and can cope with major changes to their working environment smoothly and efficiently.

To find out more about our editors, don't forget to read the "Spotlight On..." articles that appear once a month in FEBS Letters. The latest contribution focuses on Rob Russell. Rob informs us about his current research and how being a FEBS Editors Letter has influenced his scientific thinking. The next "Spotlight On..." will feature Peter Brzezinski from the University of Stockholm. Look out for it in an upcoming issue of FEBS Letters.

Our long running and highly popular series "Jeff's View" will soon be coming to an end. The series of essays were so successful that we are publishing a book containing all of Jeff's views at the end of this year. This means that all of you who enjoyed reading his views will be able to introduce Jeff to your friends, fellow scientists, and your family in a single volume. Jeff will write a final view for FEBS Letters soon and we hope that you will enjoy reading it as much as his previous essays. Here in the editorial office we always eagerly awaited his next view and thoroughly enjoyed reading them. We would like to thank Jeff for his wonderful contribution to FEBS Letters.

Best wishes,

### **The FEBS Letters Editorial Office**

Felix Wieland, Managing Editor  
Patricia McCabe, Assistant Managing Editor  
Tine Walma, Assistant Editor  
Anne Mueller, Editorial Assistant

# FEBS Special Meeting

## ATP-Binding Cassette (ABC) Proteins: From Multidrug Resistance to Genetic Diseases



**March 4 – 10, 2006**

**Hotel Grauer Bär\*\*\*\* Innsbruck, Austria**

**Organizer:** Karl Kuchler (AUT) **Co-Organizers:** Kazumitsu Ueda (JPN), Susan PC Cole (CAN)

Symposium 1: **Biogenesis, Trafficking & Processing of ABC Proteins**

Symposium 2: **Modulation & Regulation of ABC Protein Function**

Symposium 3: **ABC Proteins in Multidrug Resistance & Pharmacology**

Symposium 4: **ABC Genes in Physiology & Pathology of Disease**

Symposium 5: **Catalytic Mechanisms & Structure of ABC Proteins**

### Scientific Advisory Board (SAB)

Lydia Aguilar-Bryan (USA)	Piet Borst (NLD)
Joseph Bryan (USA)	Giovanna Chimini (FRA)
Roger Deeley (CAN)	Michael Gottesman (USA)
Christopher Higgins (GBR)	Barry Holland (FRA)
Christine Hrycyna (USA)	Dietrich Keppler (DEU)
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### Main Sponsors & Contributors

Federation of European Biochemical Societies, FEBS  
EC RTN Project „Flippases“  
SOLVO Biotechnology  
PXE International  
Active Pass Pharmaceuticals  
Qualyst  
Dr. Josef Steiner Cancer Research Foundation

### ABC2006 Meeting Office

Maria Bausback & Regina Klaus  
Helmut Jungwirth & Tobias Schwarzmüller  
Medical University Vienna, Max F. Perutz Laboratories  
Department of Medical Biochemistry, Campus Vienna Biocenter  
Dr. Bohr-Gasse 9/2, A-1030 Vienna, AUSTRIA  
Phone: +43/1/4277-61811  
Fax: +43/1/4277-9618  
e-mail: [info@febs-abc2006.org](mailto:info@febs-abc2006.org)

### List of Invited Speakers & Chairs

Lydia Aguilar-Bryan	Suresh Ambudkar	Susan Bates
Piet Borst	Kim Brouwer	Joseph Bryan
Richard Callaghan	Geoffrey Chang	Giovanna Chimini
Jonathan Cohen	Susan PC Cole	Robert Ford
Amy Davidson	Roger Deeley	Michael Eichelbaum
Cyrille Forestier	Michael Gottesman	Francisco Gamarro
Annette Hambrock	Christopher Higgins	Michael Hayden
Barry Holland	Nobuya Inagaki	Dietrich Keppler
Samuels Lacey	Roland Lill	Victor Ling
Gerrit van Meer	Susan Michaelis	Edward Neufeld
Bert Poolman	John Riordan	Frances Sharom
Alfred Schinkel	Lutz Schmitt	Brian Sorrentino
Yuichi Sugiyama	Robert Tampé	Peter Tieleman
Hajime Tokuda	Imanaka Tsuneko	Kazumitsu Ueda
Andras Varadi	Paola Vergani	Akihito Yamaguchi

**Registration Deadline December 15, 2005 - [www.febs-abc2006.org](http://www.febs-abc2006.org)**





## FEBS Debate



## MOBILITY AND EXCHANGE

By Erik Boye

Science does not recognise any national borders and is, therefore, an international endeavour. It is not sufficient or relevant to become a national champion anymore – all scientists are competing on the international arena. This obvious fact urges us to promote international exchange of ideas and of personnel. And most funding agencies for science have fellowship programmes to promote the mobility and flexibility of scientists. In particular, young scientists are stimulated to spend some time in foreign countries. This will allow them to learn new techniques, to experience novel ways of approaching and solving problems, and to feel the pulse of foreign cultures and peoples. In addition to promoting the cause of science, such programmes further the understanding and contact between nations, thus dampening possible causes of hostility and hatred.

Why is it, then, that it is so difficult to make our young colleagues spend some of their pre-doctoral or post-doctoral periods in laboratories abroad? Over the past ten years, students from the Nordic countries have been conspicuously passive in applying for international stipends and fellowships. In many cases, it only takes an application before the student has a fellowship to travel abroad. Yet, these possibilities are not extensively used.

This trend should worry us, since it is contrary to the purpose of FEBS and is far from optimal for science as a whole. Remedies are hard to come by, since the

reasons are not perfectly clear. Are students from affluent European countries complacent and spoilt and do not feel a strong enough drive towards scientific excellence? Are the economic conditions for going abroad not tempting enough? Both suggestions probably contain some element of truth. In my own country, the tendency to maximize the economic outcome and minimize the effort can be seen in the educational system and in the society as a whole.

Carefully stated, this attitude is not particularly compatible with a career in science.

On a happy note, biology students in eastern European countries appear more than willing to travel and to experience science abroad. And it is good to see that FEBS has taken the challenge to fill the need. In this situation, the challenge is to bring the students and the knowledge back to the home country. This challenge can be met by coupling fellowships to a return obligation and to establish stimulants for relocating scientists back to their East European home country. As you may know, FEBS and EMBO are, laudably, joining forces in establishing "installation grants" to bring good Eastern European scientists back home and to help them establish their own labs there.

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**Erik Boye**, is professor at Department of Cell Biology, Institute for Cancer Research, Montebello 0310 Oslo Norway. He is also Secretary General of the Norwegian Biochemical Society, i.e. FEBS' Norwegian member society.

*We encourage you to share your view on the September/October month debate issue: **Mobility and Exchange**. Join the debate in the "Mobility and Exchange" forum at **FEBS Bulletin Board**, [www.febs.org/FebsBB!](http://www.febs.org/FebsBB!)*

*A selection of views posted there during September and October will be published in the November issue of **FEBS News**. If you have questions or technical problems related to the **FEBS Bulletin Board**, please contact the administrator, Peter Ott ([peter.ott@febs.org](mailto:peter.ott@febs.org)).*

## The Tale about a FEBS Fellow

### Molecular evolution in emulsion droplets: The development and application of *in vitro* compartmentalization (IVC)

By Dan Tawfik

The evolution of all biomolecules depends on the linkage between phenotype (a trait, or function, providing a selectable advantage) and genotype (the gene encoding a protein or nucleic acid conferring that function). In nature, cellular compartmentalization provides this linkage by keeping together the genes, the proteins they encode, and the products of the activities of these proteins.

During 1996-97, while in Cambridge under a FEBS PostDoctoral Fellowship, I became fascinated by the possibility of creating an artificial system that would reproduce this linkage in the test tube. In collaboration with Andrew Griffiths (LMB, Cambridge), I developed a completely new approach dubbed *in vitro* compartmentalization, or IVC. IVC uses water-in-oil emulsions to compartmentalize and translate billions of genes, each imbedded in a droplet of ~2.5µm diameter (Fig. 1). In doing so, it provided the first *in vitro* system that enables the reproduction of evolutionary processes in compartments of cellular size. Following compartmentalization, different selection schemes can be applied to mediate the isolation of those genes that encode a protein exhibiting the desired activity.

***In vitro* compartmentalization (IVC) uses the water droplets of water-in-oil (w/o) emulsions as artificial, cell-like compartments to drive the evolution of new biomolecules.** Single genes are transcribed and translated within individual compartments, and the resulting protein, e.g., an enzyme, is allowed to execute its function which comprises the selection target. The product of this target function provides the basis for the subsequent isolation of the encoding gene.

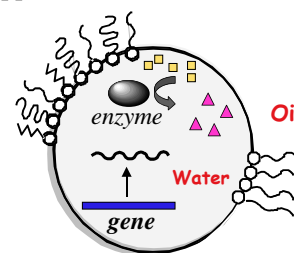


fig.1

The initial demonstration of IVC was based on the gene and the substrate being the same molecule. Specifically, we demonstrated the selection of DNA-methyltransferases (1). In the subsequent years, we have developed IVC, and demonstrated its capabilities in molecular evolution. We can currently explore genetic diversities that are several orders of magnitude larger than those amenable to standard screening methods ( $>10^{10}$  gene variants in a single experiment), and generate novel and interesting protein variants (for a recent review see 2). The uniqueness and potential of this concept is now widely recognized. It has been applied by a number of groups world-wide, including for applications which we did not envisage at the time of its development (e.g., DNA sequencing, the identification of rare, cancer-inducing mutations, and molecular haplotyping).

1. Tawfik, D.S. & Griffiths, A.D. (1998) Man-made cell-like compartments for molecular evolution. *Nature Biotechnology* **16**, 652-656.

2. Aharoni, A., Griffiths, A.D. & Tawfik, D.S. (2005) High-throughput screens and selections of enzyme encoding genes. *Current Opinion in Chemical Biology* **9**, 210-216.

**Dan Tawfik** (dan.tawfik@weizmann.ac.il) is Senior Scientist at the Dept. of Biological Chemistry of the Weizmann Institute of Science, Israel, as well as member of the Israeli Biochemical Society/a member of FEBS.

The research he has outlined above was sponsored by FEBS via a FEBS Long-Term Fellowship. FEBS wishes to warmly congratulate Dan on his discoveries (which in fact led to a patent, the revenues of which are generously shared with FEBS).

*FEBS is indeed happy to be able to publish papers/stories like Dan's. Thus, if you are a FEBS Fellow and, like Dan, is willing to share the key achievements from your fellowship work with the readers of FEBS News, we would be happy to hear from you. As a "thank you" we offer Dan and all other authors of "fellowship papers" published in this newsletter a free 128 MB memory stick carrying the FEBS logo (see p. 3).*

*For further information, please contact the Editor of FEBS News, Camilla K. Lauritzen (Camilla@febs.org).*



## Opportunities

### POSTDOCTORAL POSITION OFFERED

LABORATOIRE DE BIOPHYSIQUE DU STRESS OXYDANT DSV-SERVICE DE BIOÉNERGÉTIQUE CEA-SACLAY, FRANCE

One CEA-funded position is available in the area of Biochemistry and Biophysics of NO-Synthases. The research will focus on mechanistic studies of ultra-fast catalytic steps. Identification and characterization of catalytic intermediates will be achieved by coupling Rapid Kinetics (stopped-flow, freeze-quench) and cryo-reduction to several state of the art spectroscopies (resonance Raman, FTIR, EPR ...).

Our Lab is located in the suburbs of Paris in an international science and technology site ([www.dsv.cea.fr/content/cea\\_eng/home/](http://www.dsv.cea.fr/content/cea_eng/home/)) and provides researchers with outstanding biophysical and spectroscopic facilities.

For those interested: Please send CV and 3 reference letters to [jerome.santolini@cea.fr](mailto:jerome.santolini@cea.fr) before October 31st 2005.

**Time Frame:** 1 + 1 year

**Start date:** As early as November 1<sup>st</sup>, 2005

**Salary/year:** 26,000/29,000 euros – 32,000/36,000 US dollars + benefits

**Application deadline:** October 31st, 2005

For additional information on the lab or on the project, contact Jérôme Santolini or see our website, [www.dsv.cea.fr/content/cea/d\\_dep/d\\_dbjc/d\\_sbe/d\\_lbso/mattioli\\_fr.htm](http://www.dsv.cea.fr/content/cea/d_dep/d_dbjc/d_sbe/d_lbso/mattioli_fr.htm)

### POSTDOCTORAL POSITION OFFERED

THE BIOINFORMATICS CENTRE INSTITUTE OF MOLECULAR BIOLOGY AND PHYSIOLOGY UNIV. OF COPENHAGEN, DENMARK

This position is part of a research project on analysis of gene regulation in human disease, funded by a large research grant from the Novo Nordisk Foundation. The project focuses on mammalian microRNA expression under physiological and pathological conditions, with particular focus on cancer.

We are looking for a person with strong background in molecular biology, who is interested in implementing and using microarray technology to identify microRNAs and microRNA targets in cancer. The principal investigators on the project are Professor Anders Krogh, Professor Finn Cilius Nielsen (Rigshospitalet and University of Copenhagen) and Professor Kristian Helin (BRIC and University of Copenhagen).

The position is formally placed at the Bioinformatics Centre, Institute of Molecular Biology and Physiology at the University of Copenhagen. The Centre is going to have 15-18 researchers and Ph.D. students. The experimental work will take place at the Biotech Research and Innovation Centre, which is directed by Kristian Helin and at the microarray core facility at Rigshospitalet, University of Copenhagen, which is headed by Finn Cilius Nielsen. The successful candidate should have a strong background in molecular biology or a related field. Moreover experience in micro array technology would be an advantage.

The application must include a curriculum vitae, a proof of Ph.D. degree, and the names and addresses of 3 references.

Any potential applicant is invited to apply irrespective of age, sex, race, religion or ethnic background.

For further information about the stipends, enquiries can be made to Professor Finn Cilius Nielsen, +45 3545 2223, [finn.cilius.nielsen@rh.hosp.dk](mailto:finn.cilius.nielsen@rh.hosp.dk) or Professor Anders Krogh, +45 3532 1329, [krogh@binf.ku.dk](mailto:krogh@binf.ku.dk). The signed original and three copies of the application must be sent to the Bioinformatics Centre, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen, Denmark.

**Deadline for applications** is October 3rd, 2005.



## WWW of upcoming events

**What:** International Symposium on Antibody Engineering and Antibody-based therapeutics

**When:** October 15–17, 2005

**Where:** Beijing, China

For detailed information please see

[www.selectbiosciences.com/  
conferences/antibodysymposium/](http://www.selectbiosciences.com/conferences/antibodysymposium/)

**What:** Advances in Metabolic Profiling

**When:** November 1-2, 2005

**Where:** London, UK

For detailed information please see

[www.metabolicprofiling.com](http://www.metabolicprofiling.com)

**What:** Molecular Targets and Cancer Therapeutics

**When:** November 14–18, 2005

**Where:** Philadelphia, USA

For detailed information please see

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

**What:** 5th Annual PepTalk

**When:** January 9–13, 2006

**Where:** California, USA

For detailed information please see

[www.chi-peptalk.com](http://www.chi-peptalk.com)

**What:** Cell Signaling World Signal Transduction Pathways as therapeutic targets

**When:** January 25–28, 2006

**Where:** European Conference Center (Luxembourg)

For detailed information please see

[www.transduction-meeting.lu](http://www.transduction-meeting.lu)

**What:** MedChemEurope

**When:** February 21–22, 2006

**Where:** Prague, Czech Republic

For detailed information please see

[www.selectbiosciences.com/  
conferences/MedChem/index.aspx](http://www.selectbiosciences.com/conferences/MedChem/index.aspx)

**What:** 31st FEBS Congress

**When:** June 24 -29, 2006

**Where:** Istanbul, Turkey

For detailed information please see:

[www.febs2006.org](http://www.febs2006.org)