



LUND UNIVERSITY
Faculty of Medicine

Newsletter for the Department of Experimental Medical Science. Editor: anna.appelberg@med.lu.se

Info

March 2011

Vacation Planning

For professors, senior lecturers, “forskarassistenter” and PhD students, the vacation is registered automatically according to the LU collective agreement, i.e. you will get all your vacation planned out during summer. If you have other plans on when to have vacation, please contact Lisette Eklund before April 30th. All others – including “forskare” and “biträdande forskare” will have to apply for vacation as usual in Primula Webb (<https://primweb.adm.lu.se/>). All employees should take at least 20 days of vacation per year. According to new rules, the maximum amount of saved days is now limited to 35. It is not allowed to have saved days left when you retire. If you have any questions please contact lisette eklund@med.lu.se

Applying for VR?

Please hand in the ethic approvals and the VR S-form on F10 before 09:00 am Thur April 7th. Applications will be sent off jointly.

PhD Student Employment from 2nd year

Full-time PhD students who start their second year as of July 1st should be employed as PhD students, i.e. no longer receive Special Education Assistance [Swe: utbildningsbidrag]. This means improved employment benefits. To ease in the new rules, PhD students accepted between 2010-07-01 and 2011-06-30 also get their second year covered by the faculty. Hiring PhD students in the future will be more costly for the research group. In addition, the chance of receiving additional funding in the end of the studies [Swe: doktorandmånader] will decrease. Click here to read more in the faculty board protocol. (Swe)

New Purchasing Policy

LU has to improve the purchasing routines. Get ahead start by checking out pages 4 and 5.

Courses in Swedish

Two courses are given, one for beginners and one for those who have some background in Swedish. The day-time courses comprise a total of 40 hours each. Application deadline: May 12th.
Course SFUA: Tues 13.15-15.45 start Sept 13th.
Course SFUB: Thurs 13.15-15.45 start Sept 15th.

Neuroscience Day May 5th

Registration deadline April 21st.

Bill & Melinda Gates Foundation

Grant proposals are accepted online until May 19th to, for example;

- * new approaches to cure HIV infection
- * Explore nutrition for growth of children
- * Apply synthetic biology to promote global health
- * Create innovative ways to accelerate, sustain, and monitor eradication of the poliovirus.

Interdisciplinary Programme on Food

Formas and VINNOVA, among others, have initiated an interdisciplinary research programme on food. One area is “Food and health” Application deadline April 13th.

Druvan’s Research Grant

Several grants of minimum 200 000 SEK are awarded to younger researchers in the fields chemistry, physiology and functional foods. Application deadline April 15th. www.druvansforskningpris.se

AWELU - the new English tool

Use your lucat-id at www.lu.se/awelu

Miguel & Anna

take a look at Nature

Miguel Burguillos Garcia is looking smart. It's his birthday. In fact we both turn 32 today. We decide to celebrate this, and Miguel's recent Nature paper, with a walk in the sunshine.

Microglia cells are immuno cells in the brain that play an important role in diseases such as Alzheimer's and Parkinson's. Miguel's research shows that the inhibition in the activity of caspase enzymes can decrease microglia activation and therefore promote neuroprotection and protect against cell death.

Since the paper was first submitted in 2009 Miguel has been in a dialogue with Nature. But it is not until now, when it is finally out and the press embargo is over, that he talks freely about it: "I first started to realize this was Nature material when I was doing my PhD in 2008."

"At that time, basically all the cell-death studies in the brain in the field of Parkinson's disease were based on the activity of caspases. As a PhD student I could never find any co localization of caspase activation in the dopaminergic neurons but found it in the microglia; this was driving me nuts! I tried to relate caspase activity and cell death in the microglia, but despite countless hours in front of the confocal microscope, trying really, really hard, it was without success. One day I checked the inflammatory response: I observed that the response was lower when I inhibited caspases. I was surprised but thought, 'one experiment is no experiment'. We did it eight times just to be sure. The eighth time it was the same. Then I talked to my boss."

Miguel remembers those years as very challenging: "There were a lot of sleepless nights working on something that maybe wouldn't work out, but it was also exciting to discover something new day by day."



"I will try to stay in academia because of the freedom it gives you and the time to do research," Miguel reflects. "I would like to start my own group with time."

In Lund Miguel has been working with Tomas Deierborg in the Neuronal Survival Unit (NESU). Now he is about to leave Lund for a second post doc at KI in Stockholm. I ask him how much his discovery has contributed to solving Parkinson's riddle:

"Our findings complement the discovery of the main role of caspase 3 that was awarded the Nobel Prize in 2002. For neuroinflammation in general, it could be big, but neuroinflammation inside the Parkinson field is only one part; only a small piece of the puzzle."

"My bosses (in this case Bertrand Joseph, KI, and Jose

L. Venero from Seville University) and I have already been contacted several times by people who have relatives that have different diseases, asking us when the drugs will be brought to the market." Miguel regrets having to explain that clinical trials take a long time and are very expensive. "It's so sad. When I feel tired I try to remember these people. I say 'ok you are just tired. These people are suffering from terrible diseases'. Somehow that gives me a little bit of extra energy."

Happy Birthday Miguel
and best of luck in the future!

If you want to read more on Miguel - check out Bagadilico's March newsletter!

Lund University Respiratory Network - an account of events



Johan Grunewald accepting the award and reading a statement from Anders Eklund, who couldn't attend.

The Sandberg Prize

The Sandberg Prize is awarded for outstanding pulmonary research. This year, the prize sum of 100 000 SEK was shared between two professors that have accomplished groundbreaking research on the disease Sarcoidosis. Johan Grunewald's and Anders Eklund's discoveries have improved health care option to predict disease development and now represent a new diagnostic standard.

"To pursue research insistently, during a long period of time, trying to shed light on what you regard as challenging issues, does not by necessity mean that neither others will find it equally interesting, nor that a researcher can expect praise for his or her contributions. Most will have to be pleased if they managed to get enough financial support to conduct their projects and if these are regarded worthy of publishing. Therefore it is prestigious, flattering and encouraging to now receive the Evy and Gunnar Sandberg prize as a sign of appreciation" wrote Anders Eklund in a statement, to which Johan Grunewald commented "...as always I agree with Anders."

The two-day LURN conference in Ystad Saltsjöbad drew attendants from Sweden, Denmark, the Netherlands, Germany and the UK.

The events began with Professor Claes-Göran Löfdahl introducing the Honorary Sandberg Lecturer; Professor Dirkje Postma from the Dutch University of Groningen. Professor Postma held an appreciated lecture on how genes influence the development of asthma and allergies.

There was one session devoted to asthma, allergy and inflammation, one to pulmonary immune responses and immune remodelling, one to acute lung injury and one to chronic severe lung diseases and transplantation. Maria Weitoft Lundström,

Jenny Carlén and Michiko Mori, three PhD Students from EMV, participated with talks of their own. Gunilla Westergren-Thorsson awarded the Young Investigator Prize to Abraham Roos from KI.

The Evy and Gunnar Sandberg prize was awarded as a grand finale. Per Sandberg gave a little background to the foundation and his father Gunnar Sandberg: "He always had a very keen interest in medicine and the medical profession. But his approach might have been unusual. There are two things he taught us children; the first one was 'don't listen to the doctors'. The second one was 'whiskey is the only remedy that can cure any medical problem'", smiled Per Sandberg.



Members of the Sandberg foundation. Per and Evy Sandberg on the far left.



LUNDS UNIVERSITET
Medicinska fakulteten

Coaching or curling?

A half day for PIs at EMV May 10th!

Please sign up no later than May 1st:

<http://tinyurl.com/6gawsnp>

May 10th at 12:15 in Belfragesalen

Session 1: high performing teams & creativity index

Session 2: the next student generation & supervision strategies

Tapas 16:30 -18:00



Purchases

for (clever) dummies. Updated 110331.

If deals closed by Lund University are not respected, we risk being sued for contract breaching [Swe: avtalsbrott].

GENERAL

- Agreements get renegotiated; check regularly.
- Make purchases in LUPIN. Invoice!
- Tur & Retur reimburses twice monthly!
- Receipts below 100 SEK are not considered for reimbursement, collect several receipts to reach a higher total.

AGREEMENT DATABASE

<https://tendsign.com/go.aspx?ID=DT31kZMJ4t70O0Vgoxp6gL1sppevBTufAA%3d%3d>

BOOKS

- Boktjänst Sverige AB
- Blackwell
- Adlibris
- Dawson Books

BREAKFAST

A work breakfast has to be simple and can only be served once a week. Everything on top of what is mentioned below has to be paid for privately.

- Bread, butter, cheese, marmalade

CHEMICALS & ANTIBODIES

- Becton Dickinson AB
- Nordic Biosite AB
- Fisher Scientific
- GTF Aktiebolag

COMPUTERS

See next page.

ELECTRONIC COMPONENTS

- Elfa AB

HOTELS

See next page.

LABORATORY GOODS

- VWR International AB
- Fisher Scientific
- Techtum Lab
- Walter Sarstedt
- Buch & Holm
- Skafte Medlab

MICELLANEOUS NUTS & BOLTS

- Eksandhs

PHONES (STATIONARY & MOBILE)

- LDC (Portal AB)

REPRESENTATION - INTERNAL

- A majority of LU-employees
- Max 320 SEK/person VAT (=moms tax) excluded.
- 450 SEK/person VAT excluded ok at Christmas, VAT max 22:50 SEK

REPRESENTATION - EXTERNAL

- A majority of non-LU employees
- Provide programme or invitation
- Provide list of attendees
- Max 450 SEK/person (VAT excluded)
- Hard liquor is not reimbursed
- Tip [Swe: dricks] maximum 5% of total cost
- Talk to the management group ahead of time if you want to invite spouses

TRAVEL

- Via Travel
- Kilroy

You must buy your trip through these agencies.

If you find something cheaper, inform them, they have to match the price.

QUESTIONS?

Discuss rules prior to your purchase! Please contact

- katarina.danielson@med.lu.se or
- lisette eklund@med.lu.se

Purchasing Computers

APPLE COMPUTERS

Mac OS X-compatible stationary units and lap tops, iPads, iPods and accessories.

- Apple Computer AB/Apple Store

APPLE SUPPORT

Hardware can only be bought in connection to buying support service.

- MacSupport

EQUIPMENT

- Atea Sverige AB

PC COMPUTERS

- Add Pro AB, Malmö
- Compliq Systems (Store on Magistratsvägen)
- Datafant AB, Staffanstorp
- Eckerström och Samuelson i Malmö AB
- Kontorscity Am AB, Malmö

> BRANDS Stationary Units

- Acer, Dell, HP, Lenovo, Fujitsu
- Acer, HP, Lenovo
- HP, Lenovo, Fujitsu
- Acer, Lenovo
- HP, Lenovo, Fujitsu

> BRANDS Lap Tops

- Acer, Dell, HP, Lenovo, Fujitsu
- Acer, HP, Lenovo
- LG, Dell, HP, Lenovo, Fujitsu
- Acer, Lenovo
- HP, Lenovo, Fujitsu

SOFTWARE

- The Selecta Agreement, LDC

Purchasing Hotel Nights

CHOICE

- 1st hand Ibis Hotel Lund
- 2nd hand Scandic Star Lund
- 3rd hand Hotel Concordia
- 4th hand Hotel Duxiana
- 5th hand First Hotel Planetstaden
- 6th hand Hotell Ideon Gästeri
- 7th hand Hotel Djingis Kahn
- 8th hand Hotel Lundia
- 9th hand Grand Hotel Lund

Publications

Since February 1st with affiliation Department of Experimental Medical Science

Learning Stimulus Intervals-Adaptive Timing of Conditioned Purkinje Cell Responses.

Jirenhed DA, Hesslow G. *Cerebellum*. 2011 Mar 18. [Epub ahead of print] PMID:21416378

Caspase signalling controls microglia activation and neurotoxicity.

Burguillos MA, Deierborg T, Kavanagh E, Persson A, Hajji N, Garcia-Quintanilla A, Cano J, Brundin P, Englund E, Venero JL, Joseph B. *Nature*. 2011 Mar 9. [Epub ahead of print] PMID:21389984

HIV-1 Molecular Epidemiology in Guinea-Bissau, West Africa: Origin, Demography and Migrations.

Esbjörnsson J, Mild M, Månsson F, Norrgren H, Medstrand P. *PLoS One*. 2011 Feb 18;6(2):e17025. PMID:21365013

Identification of molecules derived from human fibroblast feeder cells that support the proliferation of human embryonic stem cells.

Anisimov SV, Christophersen NS, Correia AS, Hall VJ, Sandelin

I, Li JY, Brundin P. *Cell Mol Biol Lett*. 2011 Mar;16(1):79-88. Epub 2010 Dec 15. PMID:21161417

G protein-coupled estrogen receptor 1/g protein-coupled receptor 30 localizes in the plasma membrane and traffics intracellularly on cytokeratin intermediate filaments.

Sandén C, Broselid S, Cornmark L, Andersson K, Daszkiewicz-Nilsson J, Mårtensson UE, Olde B, Leeb-Lundberg LM. *Mol Pharmacol*. 2011 Mar;79(3):400-10. Epub 2010 Dec 13. PMID:21149639

The human periodontal ligament cell: a fibroblast-like cell acting as an immune cell.

Jönsson D, Nebel D, Brattball G, Nilsson BO. *J Periodontol Res*. 2011 Apr;46(2):153-7. doi: 10.1111/j.1600-0765.2010.01331.x. Epub 2010 Dec 1. PMID:21118418

Reduced neurogenesis in the rat hippocampus following high fructose consumption.

van der Borgh K, Köhnke R, Göransson N, Deierborg T, Brun-

din P, Erlanson-Albertsson C, Lindqvist A. *Regul Pept*. 2011 Feb 25;167(1):26-30. Epub 2010 Nov 27. PMID:21115071

Biomechanical properties and innervation of the female caveolin-1-deficient detrusor.

Sadegh MK, Ekman M, Rippe C, Sundler F, Wierup N, Mori M, Uvelius B, Swärd K. *Br J Pharmacol*. 2011 Mar;162(5):1156-70. doi: 10.1111/j.1476-5381.2010.01115.x. PMID:21091642

Proteasome inhibition improves the muscle of laminin $\alpha 2$ chain-deficient mice.

Carmignac V, Quéré R, Durbeej M. *Hum Mol Genet*. 2011 Feb 1;20(3):541-52. Epub 2010 Nov 17. PMID:21084425

dsRNA-induced expression of thymic stromal lymphopoietin (TSLP) in asthmatic epithelial cells is inhibited by a small airway relaxant.

Brandelius A, Yudina Y, Calvén J, Bjermer L, Andersson M, Persson C, Uller L. *Pulm Pharmacol Ther*. 2011 Feb;24(1):59-66. Epub 2010 Oct 14. PMID:20951221



dsRNA-induced expression of thymic stromal lymphopoietin (TSLP) in asthmatic epithelial cells is inhibited by a small airway relaxant

...EXPLAINED:

Thymic Stromal Lymphopoietin (TSLP) is considered a hub cytokine that activates dendritic cells and T-cells producing asthma-like Th2-inflammation.

Viral stimuli, a major cause of asthma exacerbations, have been shown to induce overexpression of TSLP in asthmatic epithelium. Capsazepine has multiple effects and is of interest because it relaxes human small airways. Here we have explored effects of capsazepine and dexamethasone on viral surrogate (dsRNA)-induced TSLP and other cytokines (TNF- α , IL-8) in human bronchial epithelial cells (HBEC) from healthy and asthmatic donors.

We found that dexamethasone attenuated gene expression and protein release whereas capsazepine dose-dependently completely inhibited dsRNA-in-

duced TSLP and TNF α in both healthy and asthmatic HBECs. Capsazepine also reduced dsRNA-induced IL-8 and it prevented dsRNA-induced loss of the NF- κ B repressor protein I κ B α

Additional to its human small airway relaxant effects we now demonstrate that capsazepine has potent anti-inflammatory effects on dsRNA-induced cytokines in HBEC from healthy as well as asthmatic donors.

Angelica Brandelius

Meanwhile on Youtube. Click the image to check out the EMV production.

Hjälpreda för mediekon... http://www.adobe... Förslag på webbplatser WebSlice-galleri

and, March 2011

an är på svenska. Ska den översättas med Google Verktygsfält? Läs mer inte på svenska? Hjälp oss att bli bättre

YouTube 2011

Sök | Bläddra | Ladda upp | Skapa konto | Logga in

Karl Sward, March 2011

vetenskaphalsa 50 videoklipp | Prenumerera

Cellular Biomechanics group Karl Sward

Jag heter Karl Sward. Jag är rådsforskare, finansierad av Vetenskapsrådet och placerad här vid Lunds universitet.

0:19 / 3:25 360p 1911

Gilla | + Lägg till | Dela | Badda in | 30 visningar

Från: vetenskaphalsa | Skapat: 29 mar 2011

Karl Sward är rådsforskare i gruppen Cellulär Biomekanik vid medicinska

Visa hela beskrivningen

Alla kommentarer (0) visa alla

svensk på del här videoklippet

Förslag

- Vadför släpper en del diabetiker komplikationer... av vetenskaphalsa 78 visningar 1:28
- Vadför släpper en del diabetiker komplikationer... av vetenskaphalsa 60 visningar 2:24
- Medicinera under graviditet? av vetenskaphalsa 44 visningar 1:06
- Medicinera under graviditet? av vetenskaphalsa 21 visningar 0:06
- Operation vid öronrekonstruktion wmv av vetenskaphalsa 59 visningar 0:21

Hämta fler förslag

Internet

4 Intern... Microsoft E... Adobe InDe... SV Search Desktop