

EuroMEMBRANE Workshop

*High-resolution imaging of membranes
and membrane interactions*

12 - 16 March, 2012
Turku, Finland

EuroMEMBRANE Workshop

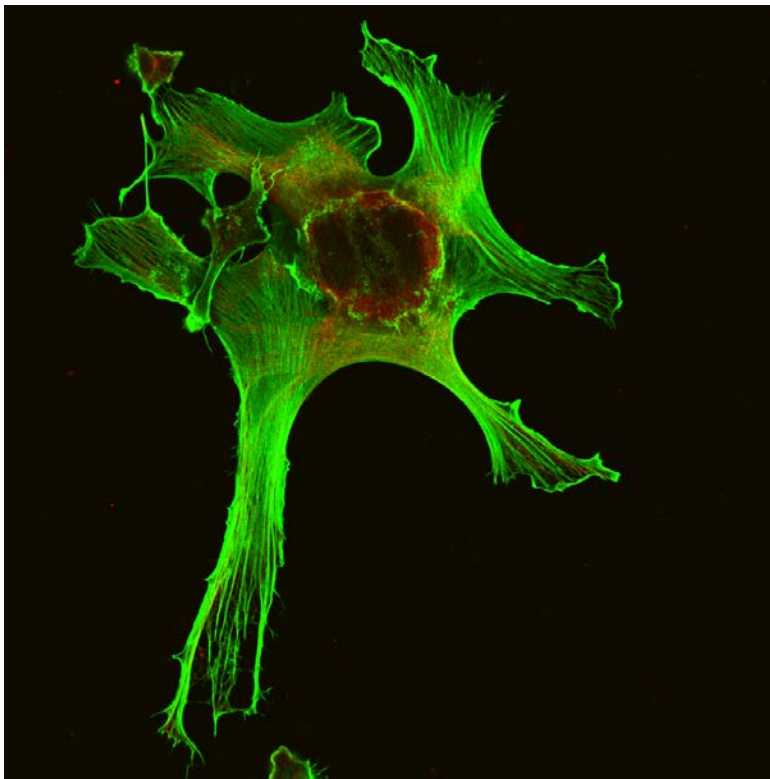
High-resolution imaging of membranes and membrane interactions

In conjunction with the workshop

Hands-on training on super-resolution microscopy applications

12-16 March 2012, Turku, Finland

Scientific report



Organising committee

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Summary

A 5-day EuroMEMBRANE networking activity was organised in Turku in March 2012. The Laboratory of Biophysics at the University of Turku together with Turku Bioimaging served as hosts of the event, which consisted of 3-day hands-on training on super-resolution microscopy applications and a 2-day workshop, *High-resolution imaging of membranes and membrane interactions*.

The aim of this workshop was to bring together top-level researchers, post-docs and students in the fields of membrane biology and imaging, and offer them a possibility to learn about the latest developments in the field - especially on super-resolution imaging. The lectures covered the imaging applications and latest technical innovations, as well as provided examples how these techniques are utilised in the most advanced biological research.

The workshop programme turned out to be a success with over 100 registered participants – 22 of them were members of the EuroMEMBRANE collaborative research projects. All the CRPs (except UPS) were presented in the workshop. The hands-on training was directed to graduate students and postdoctoral researchers and 12 motivated applicants were selected for training organised by Leica and Zeiss.

The final programme of the event

Hands on training

March 12-14th, 2012

Training was be organised by Wernher Fouquet and Vesa Ylöstalo from Leica and Mikko Nokkonen from Carl Zeiss and assisted by Turku Biolmaging. The data analysis part was organised by Pasi Kankaanpää.

1st day March 12th at 9-17

Turku Centre for Biotechnology -1st floor seminar room

Lectures

09:00 Presentation of Turku Biolmaging and Cell Imaging Core (CIC)

09:45 Coffee break

10:00 CLSM: Vesa Ylöstalo

10:45 TIRF + Leica Advanced LM: Vesa Ylöstalo

11:30 Lunch

12:30 Data analysis : Pasi Kankaanpää

13:30 STED intro : Wernher Fouquet

14:20 Coffee break

14:40 STED sample preparation : Wernher Fouquet

15:20 STED FCS/FLIM : Wernher Fouquet

2nd day March 13th at 9-17

Practical training on microscopes (two groups, 6 participants each)

Aspects of image and data analysis

09:00 Participants are divided into two groups and sessions one and two are run twice. Groups will change positions after approximately 120 minutes.

1. Drosophila larvae imaging as the simple fixed sample. We get to see basic performance and how deep can the STED microscope reach. Dual color STED different antibodies against the synaptic protein Bruchpilot.

- Wernher Fouquet & Sami Koho

2. TIRF demo with Leica and Zeiss

- Vesa Ylöstalo and Mikko Nokkonen

13:00 -14:00 Lunch break

14:00 demonstrations (starting at 14:00 and a change after 90 minutes)

3. Live-STED experiment; Good options might be integrin – virus interaction or integrin – actin

- Wernher Fouquet

4. STED sample preparation; permeabilization, staining and embedding of fixed sample with STED applicable fluorochromes. To this session the participants are encouraged to bring their own samples and primary antibodies.

Available secondary antibodies for staining are

- anti Mouse ABs: Atto 647N, Atto 665, Mega 520, Chromeo 494

- anti Rabbit ABs: Mega 520 and Chromeo 494

- phalloidin Atto 647N for actin

- Wernher Fouquet & Takahiro Deguchi

3rd day March 14th at 9-17

09:00 Imaging of samples stained on Tuesday, imaging of any participant's own samples, advanced applications. All instruments available!

- Wernher Fouquet, Vesa Ylöstalo and Mikko Nokkonen

12:00 Lunch break

13:00 Data analysis (BioCity 3rd floor, ÅAU Biochemistry computer room)

- Pasi Kankaanpää

18:00 EuroMEMBRANE Workshop Reception (BioCity 3rd floor)

20:00 Dinner at Riverboat Restaurant Cindy

Workshop programme

March 14-16th, 2012

1st day March 14th

Mauno Koivisto Centre, BioCity, Tykistökatu 6, Turku, Finland

15:00 Registration begins (BioCity entrance hall, Tykistökatu 6)

18:00 Reception (BioCity 3rd floor, Biochemistry auditorium)

2nd day March 15th

Mauno Koivisto Centre, BioCity, Tykistökatu 6, Turku, Finland

8:30 SESSION I (chair: Pekka Hänninen)

Pekka Hänninen "Opening words"

Daniela Corda "Molecular mechanisms of post-Golgi carrier formation"

Alemayehu Gorfe: "Computational studies of Ras dynamics, membrane binding and assembly"

Oleg Shupliakov: "Dynamin targeting in synapses"

11:15-11:45 Coffee, exhibition and posters (Mauno Koivisto Centre, meeting room 1-4)

11:45-13:15 Lunch and Discussions

13:15 SESSION II (chair: John Eriksson)

(includes 15min coffee break and poster session)

Elina Ikonen "Membrane interactions in endosomal cholesterol transport"
László Vigh: "Dual role of membranes in stress management: thermosensors, which interact with stress proteins"
Dimitrios Stamou: "Investigating protein-membrane interactions on the nanoscale using immobilized proteoliposomes"
Volker Haucke: "Molecular insights into synaptic vesicle exo-endocytosis"

16:30 Student presentations

Sebastian Barg: "The birth of a membrane nanodomain - syntaxin clusters assemble from single molecules during secretory granule docking"

Veronika Mueller: "STED Nanoscopy Reveals Molecular Details of Lipid Interactions in Living Cells"

Neeraj Prabhakar: "Nanodiamonds as novel optical probes in Bioimaging"

Stefan Veltel: "New mechanisms in the regulation of integrin recycling and cell migration by p120RasGAP"

17:30 Wine & Snacks, Meet the Experts with the posters (BioCity entrance hall)

18:40 A walk to dinner

19:00 Dinner & Discussion on EuroMEMBRANE activities (Kupittaa Paviljonki, Turku)

3rd day March 16th

Mauno Koivisto Centre, BioCity, Tykistökatu 6, Turku, Finland

9:00 SESSION III (chair: Tuomas Näreoja)
(includes 30min coffee break and poster session)

Eric Hossy 4 different super-resolution techniques to decipher the AMPA receptor nano-organization

Jürgen Klingauf: "High resolution microscopy of synaptic vesicle recycling"

Daniel Abankwa: "A membrane-orientation and nanoclustering based codec for small GTPase isoform diversity"

11:45 Lunch and Discussions

12:45 SESSION IV (chair: Daniel Abankwa)

Pasi Kankaanpää: "Quantitative analysis of cell membrane and model membrane images"

Mickey Kosloff "Deciphering and re-designing interaction specificity in G-protein signaling by integrating energy calculations and functional assays"

Stefan Hell: "Nanoscopy with focused light"

15:15-15:30 Best poster award

15:30-16:00 Closing remarks and travel home

EuroMembrane symposium and workshop on high resolution imaging — Turku, Finland



Photo: Pekka Hänninen

Turku, 12-16. March 2012

As high resolution imaging has received such an important role in cell biology - and in imaging of membrane interactions, the EuroSynapse consortium decided in the 2011 fall-meeting to organize a EuroMembrane event – a hands-on training course and a workshop dedicated to the use of high resolution imaging. University of Turku together with Turku Bioimaging agreed to host the meeting that took place on week 11 in March 2012. One of the key points of the meeting along with the high quality scientific content was to offer students at PhD (and MSc) level possibilities of meeting top-level scientists, get acquainted with their work and also to present their own work in front of a distinguished audience. Along with all the scientists that participated the symposium, we managed to create an encouraging and positive atmosphere for the students to participate at level where they normally refrain themselves from speaking up, asking questions or expressing their own view. I have to express our gratitude to all the scientist from the EuroMembrane - and beyond, that helped us to create this event. I have to especially thank the co-organizers profs. Elina Ikonen and John Eriksson as well as our Turku Bioimaging team - and ESF for the support that made this event possible.

Pekka Hänninen, professor
University of Turku,
May, 2012

The science and impact of the event

The programme of the week started with the hands-on-course where students were familiarized with hands-on sessions with STED imaging. Thanks to our industrial support from Carl Zeiss and Leica Microsystems, the students had also the possibility of testing the most modern TIRF equipment along with the sessions with the STED imaging sessions. During the training the students had also the possibility to try the imaging modalities by preparing their own samples – the required STED labels were offered by the organizing laboratory.

The workshop programme started with a get-together event on Wednesday evening where the students and many of the group leaders that arrived that evening had the possibility of sharing thoughts. In addition to this opening gathering, the entire workshop contained plenty of social activities providing opportunities for professional networking and scientific interaction during the lunch breaks, workshop dinner and poster

session. The actual scientific program was on Thursday and Friday – and the program was welcomed by an unexpectedly large audience of students, group leaders and senior scientists. The backbone of the program was formulated around the groups of EuroMembrane but several experts of imaging and membrane biology outside of this core were invited to present their science. The sessions themselves had no particular focus except that the program committee had tried to spread the interest throughout the sessions – with good success. The thing that seemed to gain a special place in everybody's hearts after the symposium were the student presentations of Thursday with some of them giving a talk for the first time in a scientific setting – excited and even a bit nervous. The main speaker of the event, Stefan Hell, was placed as the last speaker for the Friday afternoon – due to his tight schedule, but also luckily since this ensured that the audience stayed well until the end.

The interaction among the scientists was apparent throughout the whole event, in already began during the hands-on training where the students and post-docs formed new scientific networks for their future collaborations. The plentiful discussion opportunities provided by the workshop programme were also well utilised and many collaborations within CRPs were strengthened and new ideas created. Moreover, EuroMEMBRANE activities became familiar to all those participants who were not members of the EuroMEMBRANE CRPs.

List of speakers and participants

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Detailed report of expenditures

| Accommodation | Amount in Euro |
|---|-----------------|
| Radisson Blu Marina Palace Hotel: | 2656,41 |
| Eric Hosy 13.3-16.3. 2012 | |
| Daniela Corda 13.3-16.3. 2012 | |
| Laszlo Vigh 13.3-15.3. 2012 | |
| Alemayehu Gorfe 13.3-16.3. 2012 | |
| Volker Haucke 14.3-15.3. 2012 | |
| Dimitrious Stamou 14.3-15.3. 2012 | |
| Mickey Kosloff 14.3-16.3. 2012 | |
| Jurgen Klingauff 14.3-16.3. 2012 | |
| Elina Ikonen 15.3. -16.3. 2012 | |
| Stefan Hell 16.3-18.3. 2012 | |
| Sokos Hotel Hamburger Börs: | |
| Shupliakov Oleg & Sopova Elena (NB! includes also travel) | 590,88 |
| Karl-Eric Magnusson, Scandic Plaza Hotel 15.3.2012 | 99,95 |
| Umebayashi Miwa, Scandic Julia Hotel, 14.3.-16.3.2012 | 178,19 |
| Lagerholm Christoffer, Hotel Hamburger Börs 14.3.-17.3. 2012 | 273 |
| Neuvonen Maarit, Tapulitalo hostel, 14.3.-16.3.2012 | 88 |
| Vogl Franziska, Scandic Hotel 13.3.-17.3.2012 | 349 |
| Jan Voelzmann, Scandic Hotel Julia 10.3.-17.3.2012 | 688 |
| Sanja Blaskovic, Hotel Hamburger Börs 11.-17.3.2012 | 558 |
| Rosa Marcia, Tapulitalo hostel 11.3.-15.3.2012 | 176 |
| Sood Rohit, Hotel Hamburger Börs, 12.3.-16.3.2012 | 400 |
| Paananen Riku, Hotel Hamburger Börs, 11.3.-16.3.2012 | 420 |
| Liljeström Mikko, Hotel Hamburger Börs, 12.3.-16.3.2012 | 300 |
| Volinsky Roman, Radisson Blu Marina Palace 11.3.-16.3.2012 | 645 |
| Total | 7 422,43 |
| Travel | Amount in Euro |
| Gorfe Alemayehu | 1270,86 |
| Corda Daniela | 737,24 |
| Haucke Volker | 306,87 |
| Hell Stefan | 2110,11 |
| Ikonen Elina | 78,60 |
| Klingauf Jürgen | 278,97 |
| Shupliakov Oleg and Sopova Elena (NB! included in the hotel expenses) | |
| Stamou Dimitrios | 844,67 |
| Vígh László | 740,24 |
| Hosy Eric | 493,82 |
| Mickey Kosloff | 925,60 |

| | | |
|---|-----------------------|---------------|
| Karl-Eric Magnusson | 186,84 | |
| Umebayashi Miwa: total travel 354,94; 228 euro will be reimbursed | 228 | |
| Lagerholm Christoffer: total travel 159,37; 127 euro will be reimbursed | 127 | |
| Neuvonen Maarit | 68,02 | |
| Vogl Fransziska: total travel 505,90; 51,00 euro will be reimbursed | 51 | |
| Jan Voelzmann: total travel 270,00; 62,00 euro will be reimbursed | 62 | |
| Sanja Blaskovic: total travel 384,60; 192,00 euro will be reimbursed | 192 | |
| Rosa Marcia | 250,52 | |
| Sood Rohit | 48,04 | |
| Paananen Riku | 35,1 | |
| Liljeström Mikko | 67,03 | |
| Volinsky Roman | 67,03 | |
| Taxis for the speakers, total sum | 594,52 | |
| Total | 9764,08 | |
| Meals | Amount in Euro | people |
| 12.3.-14.3.2012 hands on coffee breaks | 592,49 | 20 each |
| 12.3.-14.3.2012 hands on lunch tickets for Sodexho | 390 | 20 each |
| 14.3. 2012 Reception (catering from restaurant Rocca) | 842,26 | 30 |
| 14.3.2012 Dinner at Riverboat Cindy | 1298 | 24 |
| 15.3.2012 lunch at Sodexho | 398 | 37 |
| 15.3. Coffee break, Wine and Snacks Fazer Amica | 3783,4 | 95 |
| 15.3. Dinner at Kupittaaan Paviljonki | 4358 | 70 |
| 16.3. Lunch at Sodexho | 420 | 35 |
| 16.3. Coffee break was sponsored by City-Lab Turku | 0 | 95 |
| 16.3. Dinner at Pinella | 779,7 | 9 |
| 30.3. Reporting meeting at Restaurant Mami | 219,39 | 3 |
| Total | 13 081,24 | |
| Administration, marketing and rents | Amount in Euro | |
| Lecture hall rent | 2440 | |
| Flowers and other decorations | 52 | |
| Badges | 6,77 | |
| Poster for the lecture hall | 28,3 | |
| Abstract books | 525 | |
| Web pages | 1451,65 | |
| Stipend for a student Iris Lähdeniemi to help with administration | 1500 | |
| Total | 6 003,72 | |
| TOTAL | 36 271,47 | |