# 4th EVGN summer school

*15th - 19th September 2008*

Krakow

2008

## Final Programme

***Location venue:*** *Jagiellonian University – The Guest House „Przegorzały”*

## „From endothelial formation to endothelial dysfunction – (EV) genomics approach ”

### Monday 15th — Arrival

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|---|---|---|
| *Morning/afternoon* | Arrival & registrations | |
| 16.30 – 17.00 | Coffee / Tea | |
| 17.00 – 17.15 | Welcoming address & information | **Jozef Dulak, Alain Tedgui & Andrew Newby** |
| 17.15 – 18.00 | Opening lecture | |
| | Gene therapy for cardiovascular disease | **Seppo Yla-Herttuala** |
| 18.00 – 18.30 | Discussion | |
| 18.30 – 19.00 | Posters hang up | |
| 19.00 | Get-together party | |

### Tuesday 16th

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|---|---|---|
| 07.30 – 08.30 | Breakfast | |
| **Session I – Vascular biology – basic mechanisms, pathology and therapy** | | *Chair: Paola Campagnolo & Halina Was (PhD Students)* |
| 9.00 – 9.30 | Mechanisms of blood vessel formation | **Alicja Jozkowicz** |
| 9.30 – 9.45 | Discussion | |
| 9.45 – 10.15 | Microparticles and vascular biology | **Chantal Boulanger** |
| 10.15 – 10.30 | Discussion | |
| 10.30 – 11.00 | Coffee break (at poster area) | |
| **Session II – Vascular Progenitor cells and angiogenesis** | | *Chair: Magdalena Kozakowska & Mauro Siragusa (PhD Students)* |
| 11.00 – 11.30 | Stem Cells and Arteriosclerosis | **Qingbo Xu** |
| 11.30 – 11.45 | Discussion | |
| 11.45 – 12.15 | Neurotrophins and blood vessel growth | **Costanza Emanueli** |
| 12.15 – 12.30 | Discussion | |
| 13.00 – 15.00 | Lunch | |
| **Session III – Semaphorins and metalloproteinase** | | *Chair: Marike Dijsktra & Slawomir Golda (PhD Students)* |
| 15.00 – 15.30 | Semaphorins and their receptors in vascular biology | **Federico Bussolino** |
| 15.30 – 15.45 | Discussion | |
| 15.45 – 16.15 | Metalloproteinases, oxidant stress and vessel wall remodeling | **Andrew Newby** |
| 16.15 – 16.30 | Discussion | |
| 16.30 – 17.00 | Coffee break (at poster area) | |
| **Workshop I – Markers of progenitor cells** | | *Chair: Quingbo Xu & Paolo Madeddu* |
| 17.00 – 17.30 | The identification of Oct-4+CXCR4+ very small embryonic-like (VSEL) stem cells in adult tissues – physiological and pathological consequences | **Mariusz Ratajczak** |
| 17.30 – 17.45 | Discussion | |
| 17.45 – 18. 45 | Debate | moderators: **Paolo Madeddu, Qingbo Xu** |
| | Are markers of progenitor cells suficient to characterize their function? - Introduction | **Paolo Madeddu** |
| 19.00 – 22.00 | Dinner & attractions | |

## Wednesday 17th

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|---|---|---|
| 07.30 – 08.30 | Breakfast | |
| **Session IV – Aterosclerosis and hemostasis** | | *Chair: Agnieszka Jazwa & Daniel Martin (PhD Students)* |
| 08.30 – 09.00 | Lipoprotein autoimmunity and atherosclerosis | **Jan Nilsson** |
| 09.00 – 09.15 | Discussion | |
| 09.15 – 09.45 | Hemostasis and angiogenesis | **Victor Van Hinsberg** |
| 09.45 – 10.00 | Discussion | |
| 10.00 – 11.00 | Coffee break (at the poster area) | |
| **Session V - Inflammation and angiogenesis** | | *Chair: Klaudia Skrzypek & Jerzy Kotlinowski (PhD Students)* |
| 11.00 – 11.30 | VEGF and angiogenesis in preeclampsia, a new risk factor for cardiovascular disease in women | **Asif Ahmed** |
| 11.30 – 11.45 | Discussion | |
| 11.45 – 12.15 | Lactadherin and angiogenesis | **Jean-Sébastien Sylvestre** |
| 12.15 – 12.30 | Discussion | |
| 12.30 – 13.00 | Type I interferon aggravate the vascular inflammatory response by modulating the activity of nuclear receptors | **Bernd Binder** |
| 13.00 – 13.15 | Discussion | |
| 13.15 – 14.30 | Lunch | |
| 14.30 | Bus transport to the Jagellonian University Museum | |

**Workshop II – Vascular biology, clinic and industry** — **Moderators: Olivier Arnaud and Jozef Dulak**

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|---|---|---|
| 15.30 – 15.45 | Biotechnology at Jagiellonian University | **Jozef Dulak** |
| 15.45 – 16.15 | Cell therapy in cardiology – what is known and what remains to be learned | **M. Tendera** |
| 16.15 – 17.15 | How to cooperate with the industry – panel discussion | **Olivier Arnaud** |

17.30 – 19.00 sightseeing of Collegium Maius, the Museum of Jagiellonian University and cocktail

Afterwards – free time (pubs…)

## Thursday 18th

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|---|---|---|
| 07.30 – 08.30 | Breakfast | |
| **Session VI - Transcriptomics and proteomics** | | *Chair: Larissa Reis & Anna Grochot-Przeczek (PhD Students)* |
| 9.00 – 9.30 | Transcriptomic approach | **Anton JG Horrevoets** |
| 9.30 – 9.45 | Discussion | |
| 9.45 – 10.15 | Proteomic approach | **Manuel Mayr** |
| 10.15 – 10.30 | Discussion | |
| 10.30 – 11.00 | Coffee break (at poster area) | |
| **Session VII - Endothelial function & dysfunction** | | *Chair: Magdalena Tertil & Rainier Boon (PhD Students)* |
| 11.00 – 11.30 | Modulation of vascular gene expression by hypoxia | **Lorenz Poellinger** |
| 11.30 – 11.45 | Discussion | |
| 11.45 – 12.15 | Endothelial dysfunction | **Ingrid Fleming** |
| 12.15 – 12.30 | Discussion | |
| 12.30 – 13.00 | Endothelial dysfunction and pharmacology of MNA-COX-2/PGI2 pathway | **Stefan Chlopicki** |
| 13.00 – 13.15 | Discussion | |
| 13.15 – 14.15 | Lunch | |

## Thursday 18th

| Session VIII – Vascular biology | | Chair: Urszula Florczyk & Johann Isaak (PhD Students) |
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| 14.15 – 14.45 | Regulation of eNOS in the vasculature | **Jean-Luc Balligand** |
| 14.45 – 15.00 | Discussion | |
| 15.00 – 15.30 | Vascular biology in 21st century | **Alain Tedgui** |
| 15.30 – 15.45 | Discussion | |
| 15.45 – 16.15 | Coffee break | |

| Session IX – EVGN – social aspects and future activities | | Chair: Alain Tedgui & Andrew Newby |
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| 16.15 – 16.45 | Social aspects of vascular biology; bioethics, gender issue - an "unconventional" point of view | **Alicja Józkowicz** |
| 16.45 – 17.00 | Discussion | |
| 17.00 – 17.15 | Summer School 2009 | **Jean-Luc Balligand** |
| 17.15 – 17.30 | Poster awards | |
| 17.30 – 18.00 | Conclusions | **Alain Tedgui, Andrew Newby** |
| 19.00 | Farewell party | |

## Friday 19th

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|---|---|
| 07.30 – 08.30 | Breakfast |

**Departures**

## Speakers & EVGNers

1. **Asif Ahmed**
2. **Olivier Arnaud**
3. **Jean-Luc Balligand**
4. **Chantal Boulanger**
5. **Federico Bussolino**
6. **Stefan Chlopicki**
7. **Catherine Clusel**
8. **Jozef Dulak**
9. **Costanza Emanueli**
10. **Ingrid Fleming**
11. **Anton JG Horrevoets**
12. **Alicja Jozkowicz**
13. **Paolo Madeddu**
14. **Manuel Mayr**
15. **Andrew Newby**
16. **Jan Nilsson**
17. **Lorenz Poellinger**
18. **Mariusz Ratajczak**
19. **Jean-Sébastien Sylvestre**
20. **Alain Tedgui**
21. **Michal Tendera**
22. **Victor Van Hinsberg**
23. **Wojciech Wojakowski**
24. **Qingbo Xu**
25. **Seppo Yla-Herttuala**

***Local organizers:*** Jozef Dulak
Alicja Jozkowicz
Agnieszka Cader (secretary)
*(Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland)*

*the subjects for discussion will be prepared by each expert and the students will be able to discuss with them; students will rotate every lunch, so each student will have an opportunity to discuss three different subjects*