



1st Virtual Liver Colloquium

Westfalahalle
Dortmund

2012, March 7th-8th

Background

The ultimate goal of the VLN is the development of multi-scale computer models (MSCMs) allowing to simulate central liver functions under normal and a variety of altered physiological conditions (e.g. obesity, drug intake, liver damage and regeneration, systemic inflammation). It is neither the intention nor a realistic goal to develop a whole-organ model that can be used to analyse and simulate all known physiological functions of the liver. Rather, the model will be tailored to allow simulations of a limited number of selected liver functions that are of medical relevance and for which our current understanding of the underlying molecular processes is detailed and substantiated enough for a mathematical representation.

Aims of the 1st VLN Colloquium

- to update all VLN partners
- to strengthen the focus of our activities
- to enable an in depth discussion among groups that either collaborate already or intend to collaborate in the future
- to give a platform also to those members of our consortium who did not yet have a chance to present.

Wednesday, March 7th

9:00–9:05 Welcome (Jan Hengstler, Olaf Dirsch, Hergo Holzhütter)

Presentation of the showcases

9:05–9:45 HGF induced signalling (organized by Ursula Klingmüller and Dirk Drasdo)

9:45–10:00 Discussion

10:00–10:45 LPS induced liver inflammation (organized by Steven Dooley and Jens Timmer)

10:45–11:00 Discussion

11:00–11:20 Coffee break

11:20–12:05 Liver steatosis (organized by Rolf Gebhardt and Hergo Holzhütter)

12:05–12:20 Discussion

12:20–13:30 Lunch

Emerging topics

13:30–14:15 Spatial control of signalling and tissue organization (organized by Marino Zerial and Jan Hengstler)

14:15–15:00 Establishment of novel modelling and imaging tools (organized by Hergo Holzhütter)

15:00–15:30 Discussion

15:30–16:00 Coffee break

16:00–16:20 Results of the Student and Postdoc Retreat in Hünfeld (D'Alessandro & Bachmann)

16:20–18:00 Presentation of VLN members I

(10 min presentations; priority for members of our consortium who did not yet have a chance to present)

1. Driesch group
2. Nüssler group
3. Habermann group
4. Häussinger/Bode group
5. Heinzle group
6. Theis group
7. Schlosser group
8. Alexopoulos group

18.00-21.00 Group dating (including supply with food and beverages)

To discuss cooperations several rooms will be available for workshops with smaller numbers of partners. Each partner is free to organize or join meetings of subgroups. On top of that, the management team of the VLN will appoint additional group-to-group discussions in order to improve networking within the VLN. Based on these assignments, groups will meet either bilaterally or multi-laterally in group dating sessions of the colloquium.

Thursday, March 8th

9:00–11:00 Presentation of VLN members II

(10 min presentations; priority for members of our consortium who did not yet have a chance to present)

9. Brusch group
10. Muckenthaler group
11. Wade group
12. Borner group
13. Joos group
14. Hofmann group
15. Zell group
16. Dahmen group
17. Dirsch group
18. Hampe group

11:00–11:30 Coffee break

11:30–13:30 Presentation of VLN members III

(10 min presentations; priority for members of our consortium who did not yet have a chance to present)

19. Preusser group
20. Schenk group
21. Zeilinger group
22. Mann group
23. Bartolomé group
24. Conradi group
25. Christ group
26. Nordheim group
27. Schirmacher/Breuhahn group
28. Kiessling group

13:30–15:00 Plenum discussion about the perspectives and the focus the Virtual Liver Network (including supply with food and beverages)

15:00 End of meeting