ESAO Winter School 2021

Jaca, Spain

The Bionic Human: Biomaterials, Bioartificial and Bioengineered Organs, and Cybernetics for the Future of Regenerative Medicine

Scientific Committee

Pedro Baptista Cecile Legallais Piotr Ladyzynski Bart Spee Gloria Gallego Ferrer

<u>Layout</u>

Total 17 lectures + 2 keynote lectures

I would like to give the perspective of "Organoids and Stem Cells" and "Biomaterials and bioprinting" necessary to develop "(Bio)artificial" and "Bioengineered Organs" of the future. Then, provide a broad view of "Current cybernetic technology and human integration".

We will have to co-organize this with **TERMIS-EU** and we have the possibility to have the **European Kidney Health Alliance (EKHA)** to have a session here to discuss the necessary steps to further advances in dialysis and implantable kidney devices (Fokko Wieringa will help with this). For this, we could do a mixed session (with speakers physically present and online).

My idea is something like this:

- 2 keynote speakers (Hans Clevers and someone else with high profile)
- 2 sessions on "Organoids and Stem Cells"
- 1 session on "Biomaterials and bioprinting"
- 2 sessions on "(Bio)artificial Organs"
- 1 session on "Bioengineered Organs"
- 2 sessions on "Current cybernetic technology and human integration"

Program

Wednesday 24th, 2021

13.30 - 16.30 Registration

16:30 - 16:40 Welcome & Opening of Winter School

Chair: Pedro Baptista, Zaragoza

16:40 - 17:30 Opening Lecture 1

Hans Clevers, Utrecht

17:30 - 18:20 Opening Lecture 2

18:30 – 20.00 Get together with buffet & beverages

Thursday 25th, 2021

Session 1

Chair:

08:30 - 09:10

09:10 - 09:50

09:50 - 10:20 Coffee Break

Session 2

Chair:

10.20 - 11.10

11:10 - 11:50

12:00 - 17:00 Ski break

Session 3

Chair:

17:30 - 18:20

18.20 - 19.10

19:15 -20:45 Poster Session I with snacks & beverages,

Seminar room 1st floor

Chairs:

Friday 26th, 2021

Session 4 Chair:

08:30 - 09:10

09:10 - 09:50

09:50 - 10:20 Coffee Break

Session 5

Chair:

10.20 - 11.10

11:10 - 11:50

12:00 - 17:00 Ski break

Session 6

Chair:

17:30 - 18:20

18.20 - 19.10

19:15 -20:45 Poster Session II with snacks & beverages, Seminar room 1st floor Chairs:

Saturday 27th, 2021

Session 7

Chair:

08:30 - 09:10

09:10 - 09:50

09:50 - 10:20 Coffee Break

Session 8 Chair:

10:20 - 11:10

11:10 - 11:50

11.50 - 12:30

12:45 - 13:15 **Poster Award Ceremony and Closing remarks** Pedro Baptista, Zaragoza