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SYSCID – A Systems medicine approach to chronic inflammatory diseases

### SYSCID E-Newsletter: 3/2018

We are pleased to present the third e-newsletter of the SYSCID consortium which unites internationally renowned experts from 9 countries with the ambition to pave the way for a systems medicine approach to chronic inflammatory diseases. Before heading off for the summer break, we would like to provide you with a short update of our work progress. This includes:

- SYSCID concept paper published in Immunity
- Further publications
- SYSCID's second progress meeting in Crete
- Upcoming events
- News from the SYSCID team

### SYSCID concept paper published in Immunity

With chronic inflammatory diseases (CIDs) on a rise they represent an increasing medical burden for society. Associated with a significant degree of long-term disability and increased mortality due to chronic involvement of other organs, such as the lung or the cardiovascular system, therapy currently only aims at dampening systemic immune responses to gain control of the disease but cannot provide a cure.

In this article we discuss the opportunities of a systems medicine approach towards curing CIDs by developing tools to predict the individual patients' disease course focusing especially on the prediction of three key aspects of the diseases: early disease manifestation, disease progression and therapy response. With these advances as a goal, SYSCID is presented as a European example of an interdisciplinary effort to bring systems medicine solutions in CID to clinical practice.

The article is available [here](#). (Open Access will be enabled as soon as the embargo period is over.)

### Further publications

- Yukihide et al.: [IBD risk loci are enriched in multigenic regulatory modules encompassing putative causative genes](#)
- Thion et al.: [Microbiome Influences Prenatal and Adult Microglia in a Sex-Specific Manner](#)
- Krištić et al.: [Profiling and genetic control of the murine immunoglobulin G glycome](#)
- Christ et al.: [Western Diet Triggers NLRP3-Dependent Innate Immune Reprogramming](#)

### SYSCID's second progress meeting in Crete

After last year's snow in Kiel, this year the consortium made sure to move south to provide some extra energy for the 1<sup>st</sup> SYSCID progress meeting. During the two days, the

partners presented the work progress and got together in breakout sessions to discuss key issues and fix the schedule for the upcoming year. The face to face meeting gave especially the young researchers involved the chance to reflect on their work, receive advice and find solutions for challenges they face. Special thanks go to our scientific advisor Elin Grundberg from Children's Mercy Kansas City, who joined the meeting.

For the entire article, please click [here](#).

### Upcoming events

- [E:Med Meeting 2018](#), September 24-26, 2018 in Berlin, Germany
- [International Human Epigenome Consortium \(IHEC\) conference](#), October 26-28, 2018 in Hong Kong
- [26<sup>th</sup> UEG Week](#), October 20 -24, 2018 in Vienna, Austria
- [2<sup>nd</sup> Conference of the European Association of Systems Medicine \(EASyM\)](#), September 07-09, 2018 in Utrecht, The Netherlands
- [ICPerMed Conference 2018](#), November 20-21 in Berlin, Germany
- [IEEE International Conference on Bioinformatics and Biomedicine \(BIBM18\)](#), December 03-06, 2018 in Madrid, Spain

### News from the SYSCID team

Our lab series continues with stops in Leuven (VIB) and in Saarbrücken (USAAR). While VIB aims to gain new insights into our gut microbiome, having packed and shipped boxes to 350 participants for 6 month longitudinal study collecting saliva, stool, and blood samples, the partners at the USAAR, our main expert for epigenomic data, have kicked off the analysis with samples from Cambridge.

To read the whole entries, please visit the news section on our [website](#).

### Your contact persons

Should you have questions or suggestions for our newsletter, please get in touch with:

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