Dear members, associates and friends,

Summer finally arrived and, luckily, also the summer holidays draw near. This time, summer not only brings long light days, swimming temperatures and barbeques, but also our newest issue of the Cluster Times. As expected, everyone was busy and prolific during the past weeks and, thanks to you, we have quite some things to report. In particular, we would like to highlight the articles about the recent Cluster publications and the Day of Immunology. However, we hope that you can enjoy all of the following articles before the heat-paralysis strikes.

Your,

Cluster Coordination Office

f.l.t.r.: Prof. Gunther Hartmann, Prof. Eicke Latz, Prof. Waldemar Kolanus, Prof. Nicolas Wernert, Prof. Joachim L. Schultze; © by Volker Lannert

Our Day of Immunology, April 29
Marktplatz Bonn.
Find more pictures on page 6
It is all about the younger ones.

ImmunoSensation participated in educating young future scientists and took part in the Bonner Kinderuni, Wissenschaftsrallye and the Girls’ Day. Have a look for yourself.

Kinderuni
Another beloved tradition is the participation in the children’s university of the University of Bonn. This time Matthias Geyer from the Institute of Innate Immunity was challenged with a lot of questions from children aged 8-13. The children learned “How drugs are being developed?” and they were not shy to share their existing knowledge with Matthias who did an excellent job when it came to casting a spell on his demanding audience.

Wissenschaftsrallye
This year’s Wissenschaftsrallye in January covered all the science in Poppelsdorf. Together with the LIMES we showed kids aged 13 to 17 what the immune system consists of and how cells actually look like that are part of the immune system. The kids had to visit several stations and answer various questions before everyone got their price: this year a visit to the Mensa. A big thank you to Prof. Waldemar Kolanus, Christoph Heuser and Michael Rieck for their help. Next Rallye: January 27, 2018.

Girls’ Day
This year 5 girls aged 11 and 12 visited us for the Girls’ Day. The girls spend the day with Anna Heine (Institute of Experimental Immunology & Medical Clinic Ill) and her group who gave them an insight of the scientific work in a lab. Just for the record: For the girls lab time is the best part of the day – which is always a good thing for future scientists. Don’t you think?
We like to thank Anna and her group for their great deal of commitment!
Cilia can be grouped into two major classes: a) primary cilia, which are immotile and b) motile cilia, which are also called flagella. A prominent example for the latter are sperm flagella. Ciliary dysfunction leads to severe diseases commonly referred to as ciliopathies. They comprise e.g. polycystic kidney disease, obesity, blindness, and infertility. However, the signaling pathways controlling ciliary function are ill-defined. To study ciliary signaling with high spatial and temporal precision, we combine optogenetics and genetically-encoded biosensors with high-resolution microscopy, mouse genetics, and biochemistry. This multidisciplinary approach allows not only to investigate ciliary signaling, but can be applied to any subcellular compartment to study its function with spatial and temporal resolution.

NEW CLUSTER PROFESSOR

Our Cluster of Excellence ImmunoSensation is continuously growing and new outstanding researchers are invited to become member. In this newsletter we would like to introduce to you Prof. Dagmar Wachten.

Prof. Dr. Dagmar Wachten
Institute of Innate Immunity - Department of Biophysical Imaging

We analyze ciliary signaling and ciliary function in health and disease. We aim to understand how cilia work and what their function is. Cilia are subcellular compartments that protrude from the surface of almost every mammalian cell.

PEOPLE

Bernardo Franklin - ERC Video

Bernardo is a PI at the Institute of Innate Immunity and explained in this video what his research is all about. It was created in the celebration of 10 years European Research Council.

You can find the full-length video of Bernardo explainings his research here.

https://www.youtube.com/watch?v=McTamhEeMTg
HIGHLIGHT

DZNE Venusberg Meeting 2017

Already in its 5th year: the Venusberg meeting on Neuroinflammation. Cluster members Michael Heneka and Eicke Latz were part of the scientific committee.
RECENT PUBLICATIONS AND NEWS

Find here a selection of our latest publications and most recent news.

Prof. Gunther Hartmann, Prof. Winfried Barchet and Dr. Thomas Zillinger were part of groundbreaking research which led to a patent to boost immune cells against cancer cells.

More information here.

A chronic low dose of delta9-tetrahydrocannabinol (THC) restores cognitive function in old mice

*Nature Medicine*, May 8, 2017

More information here.

Mapping the human DC lineage through the integration of high-dimensional techniques

*Science*, May 4, 2017

More information here.

S100 alarmin-induced innate immune programming protects newborn infants from sepsis

*Nature Immunology*, May 1, 2017

More information here.

Mutations in gamma-secretase subunit–encoding PSENEN underlie Dowling-Degos disease associated with acne inversa

*Journal of Clinical Investigation*, March 13, 2017

More information here.

Ceramide synthase 2 facilitates S1P-dependent egress of thymocytes into the circulation in mice

*European Journal of Immunology*, February 27, 2017

More information here.

CD8+ T cells orchestrate pDC – XCR1+ dendritic cell spatial and functional cooperativity to optimize priming

*Immunity*, February 9, 2017

More information here.

FIND ALL RECENT PUBLICATIONS HERE:
http://www.immunosensation.de/research/publications.html
This year we tried something new and put science and some of our scientists on the Marktplatz in Bonn for one day. It was a great success. Thanks everyone for making it such a great day.

Impressions from the Day of Immunology April 29, 2017.

Find more information here.
ImmunoSensation Blog

Why would any PhD student like to spend some of her/his precious time on writing anything else but papers and theses? There is a simple answer: Because there are so many interesting issues to talk about, because it’s a way to express yourself and because it’s a lot of fun!

Check out our latest articles:

**PhD life**

1. Throw the freaking petri dish to the ground, or maybe better… - stress relieving strategies used by our colleagues [here](#) and [here](#).

2. The last obstacle and how to jump over it more smoothly: How to master the time from handing the thesis in until the defense [here](#).

**Hard science**

1. Feeling lonely? Did you know that you could find some mates in the liver? It’s true that iMATEs are just cells, but they can act as real friends in chronic infection: [here](#).

2. One 500ml flask of culture media equals 1/10th of a little cow. But it doesn’t have to [here](#).

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**MISCELLANEOUS**

**eTraining**

New registration tool developed for IITB Workshops

We have developed a new registration tool for IITB Workshops. No more emails and lists! Well, one more email is required: You can receive your login credentials for the eTraining system by sending an email to c.drescher@uni-bonn.de.

**Announcement**

**Bonn Immunoscience Days, Nov 13-14**

This year the Cluster Science Days will be held together with the SFB 704 Symposium. It will take place in the BMZ and application will open July, 3 2017. Mark your calender from November 13 until November 14 for that great event.
9th DGfI Autumn School

Application Deadline extended to June 26, 2017

Final call for applications for the 9th DGfI Autumn School!

What? 9th DGfI Autumn School „Current Concepts in Immunology“

When? October 8 – 13, 2017

Where? Merseburg (Sachsen-Anhalt)

The Cluster offers:
Full coverage of participation fees
Reimbursement of travel costs

Application deadline extended to June 26, 2017

“The goals of the Autumn School “Current Concepts in Immunology (CCII)” are (1) to communicate to all participants basic and current concepts of the immune system, (2) to provide them with tools required to conduct experimental research, (3) and give them the opportunity to establish scientific networks.

More information can be found here.

If you want to secure your place for the 9th DGfI Autumn School, please follow the instructions in our application form here.

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Result shoe charity 2017

Due to your help we could deliver 7 big packages of shoes for „Kinderherzen – Fördergemeinschaft Deutsche Kinderherzzentren e.V“. This is almost twice as much as last year! Without your Cluster commitment those activities would not be possible! Thank you very much!

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Call for „Mary’s meals - Rucksackprojekt“

The Cluster will again participate in the “Rucksackprojekt” in cooperation with the University Hospital Bonn. The intention of this charity project is to collect used backpacks and fill them with school material as well as with items for the children’s day-to-day life in Malawi and Liberia. So watch out for the Email you will get within the next weeks in order to ask for your help.
Medical Immunoscienes and Infection - MSc Program

Applicants from all over the world

Already shortly after the official announcement of our new international master program, students from all over the world showed strong interest in the course. Within the first three months 210 applicants from 38 countries have applied for the MedImmun master course. Remarkably the program has attracted students from diverse fields like medicine, pharmacy, biology, chemistry, microbiology and biotechnology. We are certain that this diversity is a benefit for the students and the program and will contribute to its success.

We are looking forward welcoming the first group of 20 students for the winter semester here in Bonn.

Applicants from all over the world outside Germany.

© https://www.stepmap.de/

Six summer holiday weeks for children. Don’t panic!
One option would be the “pme holiday care” which is (almost) for free. For more information contact Nicole Dahms (immunosensation@uni-bonn.de).

Gender evaluation
In order to meet your needs a gender evaluation of demands in cooperation with Bo&MeRanG (Lucie Delforge) and the Medical Faculty (Tanja Banavas) will be send to you soon via Email. Don’t worry! It will take you only a few minutes. We promise!
The workshop “Presentation Skills” empowers life scientists to present with confidence and manage their fear of public speaking. To accomplish this, the workshop combines short practice talks with lessons on the three main topics - body language, slide construction and storytelling. Find more infos about the workshop here.

UPCOMING Presentation Skills

When August 31 - Sep 1, 2017
Register until August 10, 2017

“Welcome to the Dark side: Analysis vs. Interpretation.” The workshop will cover the topics: Graphical presentation, quality management in science, including / excluding data, interpretation vs. manipulation of data, checking and improving figures, and more.

UPCOMING Figure Making

When October 13, 2017
Register until September 22, 2017

We are pleased to announce that Professor Brigitta Stockinger (The Francis Crick Institute, AhRimmunity Laboratory, London), member of our Scientific Advisory Board, will give a talk. Title: Environment-immune system interactions in health and disease.

UPCOMING Cluster Seminar

When July 10, 2017
5 pm (17 Uhr)
Where BMZ, lecture hall

Shortly before the Day of Immunology Prof. Gunther Hartmann had an interview with the General-Anzeiger. He explained the benefit of the immune system and how it works.

Press Gunther Hartmann

General-Anzeiger
Imprint

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WEB      www.immunosensation.de

ImmunoSensation
the immune sensory system. Bonn cluster of excellence