

## The CABMM is looking back on a very successful year 2017 and forward to an exciting year 2018!



Dear CABMM members and friends,

Looking back at 2017, the last year was very successful for the CABMM. The number of active member groups has been continuously growing, accompanied by an increasing number of CABMM-affiliated publications of high impact and joint research projects within the CABMM network. Our events and seminars were well attended and the 8<sup>th</sup> CABMM Symposium in November was even one of our most successful events, reflected by the highest number of

registrations received so far. We are especially happy about the increasing popularity of our events amongst young scientists, as they represent our future. Last, but not least, the University of Zurich granted the CABMM two University positions – for sure a great success in a time of economy uncertainty!

However, the year 2017 also ushered in a time of changes at the CABMM:

### CABMM Research Platform

Substantial personnel changes took place on the CABMM Research Platform. In October, the last PhD student from the Bone and Stem Cell Research Group successfully passed her PhD defense and with this, the group finally left the CABMM Research Platform. The Bone and Stem Cell Research Group lead by PD Dr. Peter Richards had been the core group of the CABMM Research Platform since its creation in 2008 and I would like to take this opportunity to thank Pete Richards again for all his efforts during his time at the CABMM. Thank you, Pete! We wish you and your group members all the best for your future!

The departure of the Bone and Stem Cell Research Group left a gap, but as always, changes are associated with a new beginning. And luckily, the changes on the CABMM Research Platform went smoothly and the gap could be filled. We are happy to welcome the Gene Accessibility and Modification Group as well as the Skin Engineering Group as new groups on the CABMM Research Platform. Now, together with the Cancer Epigenome Group, the Ocular Cell Biology Group, the Musculoskeletal Research Unit and the Radiation Oncology Group, the CABMM Research Platform has been completely booked for the first time since its move to the new location within the Irchel Campus at the end of 2014. This increase in popularity also shows that the concept of the CABMM works!

### Change of leadership

The time of changes and new beginnings will continue in 2018, as this year will be most likely characterized by the **resignation of Prof. Dr. Brigitte von Rechenberg**, one of the founders of the CABMM and CABMM chairwoman since its foundation. Brigitte has played a key role in the CABMM for the last years. Now, she wishes to step back from her leading position at the end of her term of office and – although being sad about her leaving – I think that we have to respect her wish. Thus, we are currently setting the course for a smooth transition and we are confident to come up with satisfying suggestions for her succession at the next CABMM Plenary Meeting in May.

### Support by the Mäxi Foundation

And there will be even more major changes in the near future, as the support by the Mäxi Foundation is also drawn to a close. During the last years, we received not only substantial financial support, but also enjoyed the company and time spent with the representatives of the Mäxi Foundation. Amongst many other things, we were able to set up our own funding program, the so-called CABMM Start-up Grant, with the help of the Mäxi Foundation. Financing of new projects is still assured for 2018 and we are currently looking into further funding options to secure the continuation of the CABMM Start-up Grant, as this funding program is thought to be one of the main instigators of new collaborations within the CABMM network.

Let's see what the future will bring and enjoy an exciting new year 2018 at the CABMM!

With my best regards,

Silke Kachofner-Mark, PhD  
Managing Director of the CABMM

## Announcements

### CABMM Scientific Seminar

The following members will present their research during the spring semester 2018:

1. Prof. Dr. Carla Rohrer Bley  
*Division of Radiation Oncology, Vetsuisse Faculty, University of Zurich*
2. Prof. Dr. Cornel Fraefel  
*Institute of Virology, Experimental Virology, Vetsuisse Faculty, University of Zurich*
3. PD Dr. Stefan Stübinger  
*Hightech Research Center of Cranio-Maxillofacial Surgery, University of Basel*

### Save the dates!

Don't miss the opportunity to discuss scientific questions and find new collaborations in the stimulating environment of the CABMM and reserve the following dates in your calendar:

- February 7-9, 2018  
**iNEW – international Neurovascular Exploratory Workshop**
- Thursday, May 31, 2018  
**11<sup>th</sup> CABMM Plenary Meeting / 8<sup>th</sup> CABMM Spring Seminar**
- Thursday, November 8, 2018  
**9<sup>th</sup> CABMM Symposium**

We are looking forward to your participation!

## Call for information

Please inform us about your CABMM-affiliated publications, awards, career development and any other information related to the CABMM, so we can continue to keep our records up-to-date. Thank you!



## Congratulations

We congratulate PD Dr. med. **Yvonne Achermann** on her appointment as senior lecturer (Privatdozentin) in the field of Infectious Diseases and Hospital Epidemiology at the University of Zurich!

CABMM member **Sven Hirsch** from the ZHAW in Wädenswil was appointed professor. Congratulations!

Our sincere congratulations to **Marcy Zenobi-Wong** who was appointed Associate Professor of Tissue Engineering and Biofabrication at the ETHZ.

## New members

### Prof. Dr. Andreas Serra

Department of Internal Medicine and Nephrology, Klinik Hirslanden, Zurich; Epidemiology, Biostatistics and Prevention Institute (EBPI), University of Zurich

Prof. Serra's research focus lies on mammalian target of rapamycin (mTOR) signaling pathway, therapies for autosomal dominant polycystic kidney disease (ADPKD) and treatment of tuberous sclerosis (TSC). As a result of his scientific background, he is head of the Suisse ADPKD cohort ([www.adpkd.ch](http://www.adpkd.ch)) and co-director of the Swiss TSC network ([www.swissTSCnetwork.ch](http://www.swissTSCnetwork.ch)).

### Prof. Dr. Günther Hofbauer

Department of Dermatology, University Hospital Zurich

The focus of Prof. Hofbauer's research group is on squamous cell carcinoma of the skin and potential prevention and treatment. He is the head of the working group for dermatology and organ transplantation within the Swiss Society for Dermatology and Venereology (SGDV) and represents this group within the scientific committee of the Swiss Transplant Cohort Study.

### Prof. Dr. Annelies Zinkernagel

Department of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich

The scientific interest of Prof. Zinkernagel's group are bacterial pathogenesis, increasing antibiotic resistance and therefore possible new treatment strategies. Special focus lies on the role of virulence factors during pathogenesis, persistence of *Staphylococcus aureus* that goes along with antibiotic tolerance and high relapse rates and the characterization of bacteria within biofilms.

## Public relations

### "Gene genes"

Ulrich Siler, Janine Reichenbach  
PanEuropeanNetworks: Science and Technology, Issue 23;253-255.

### "Everyday ethical considerations"

Brigitte von Rechenberg  
Horizon2020 Projects:Portal, Issue 13;154-155.  
PanEuropeanNetworks: Science and Technology, Issue 23;256-257.

### "A translational approach to CMT"

Martin Flück  
Horizon2020 Projects:Portal, Issue 13;165-167.

## Publications

Severe glucose-6-phosphate dehydrogenase deficiency leads to susceptibility to infection and absent NETosis. Siler U, Romao S, Tejera E, Pastukhov O, Kuzmenko E, Valencia RG, Spaccamela VM, Belohradsky BH, Speer O, Schmutz M, Kohne E, Hoenig M, Freihorst J, Schulz AS, Reichenbach J. *J Allergy Clin Immunol*, 2017 Jan;139(1):212-219.e3.

Genomic and lipidomic actions of nandrolone on detached rotator cuff muscle in sheep. Flück M, Ruoss S, Möhl CB, Valdivieso P, Benn MC, von Rechenberg B, Laczko E, Hu J, Wieser K, Meyer DC, Gerber C. *J Steroid Biochem Mol Biol*, 2017 Jan;165(Pt B):382-395.

Hemodynamic Assessment of a Murine Heterotopic Biventricularly Loaded Cardiac Transplant in vivo Model. Książek AA, Mitchel KJ, Morax L, Schwarzwald CC, Hoerstrup SP, Weber B. *Eur Surg Res*, 2016;57(3-4):171-185.

Factor XIII Cross-Linked Hyaluronan Hydrogels for Cartilage Tissue Engineering. Brogiere N, Cavalli E, Salzmann GM, Applegate LA, Zenobi-Wong M. *AS Biomater Sci Eng*, 2016;2(12):2176-2184.

Identification of Novel Equine (*Equus caballus*) Tendon Markers Using RNA Sequencing. Kuemmerle JM, Theiss F, Okoniewski MJ, Weber FA, Hemmi S, Mirsaidi A, Richards PJ, Cinelli P. *Genes (Basel)*, 2016 Nov 10;7(11).

Bioengineered valves for the venous circulation. Weber B, Hafner J, Willenberg T, Hoerstrup SP. *Expert Rev Med Devices*, 2016 Nov;13(11):1005-1011.

Regenerative potential of tissue engineered nasal chondrocytes in goat articular cartilage defects. Mumme M, Steinitz A, Nuss K, Klein K, Feliciano S, Kronen P, Jakob M, von Rechenberg B, Martin I, Barbero A, Peltari K. *Tissue Eng Part A*, 2016 Nov;22(21-22):1286-1295.

Stability of (-)-epigallocatechin gallate and its activity in liquid formulations and delivery systems. Krupkova O, Ferguson SJ, Wuertz-Kozak K. *J Nutr Biochem*, 2016 Nov;37:1-12.

An Inflammatory Nucleus Pulposus Tissue Culture Model to Test Molecular Regenerative Therapies: Validation with Epigallocatechin 3-Gallate. Krupkova O, Hlavna M, Amir Tahmassebj, Zwick J, Kunz D, Ito K, Ferguson SJ, Wuertz-Kozak K. *Int J Mol Sci*, 2016 Sep 27;17(10).

Epigenetic Regulation of Bone Remodeling and its Impact in Osteoporosis. Ghayor C, Weber FE. *Int J Mol Sci*, 2016 Sep 1;17(9).

Quality Assurance in Biobanking for Pre-Clinical Research. Simeon-Dubach D, Zeisberger SM, Hoerstrup SP. *Transfus Med Hemother*, 2016 Sep;43(5):353-357.

Analysis of Riboflavin Compounds in the Rabbit Cornea In Vivo. Hammer A, Rudaz S, Guinard S, Kling S, Richoz O, Hafezi F. *Curr Eye Res*, 2016 Sep;41(9):1166-72.

Zirconia Dental Implants: Investigation of Clinical Parameters, Patient Satisfaction, and Microbial Contamination. Holländer J, Lorenz J, Stübinger S, Hölscher W, Heidemann D, Ghanaati S, Sader R. *Int J Oral Maxillofac Implants*, 2016 Jul-Aug;31(4):855-64.

Automated measurement of fracture callus in radiographs using portable software. Porter SM, Dailey HL, Hollar KA, Klein K, Harty JA, Lujan TJ. *J Orthop Res*, 2016 Jul;34(7):1224-33.

Clinical and immunologic phenotype associated with activated phosphoinositide 3-kinase  $\delta$  syndrome 2: A cohort study. Elkaim E, Neven B, Bruneau J, Mitsui-Sekinaka K, Stanislas A, Heurtier L, Lucas CL, Matthews H, Deau MC, Sharapova S, Curtis J, Reichenbach J, Glastre C, Parry DA, Arumugakani G, McDermott E, Kilic SS, Yamashita M, Moshous D, Lamrini H, Otremba B, Gennery A, Coulter T, Quinti I, Stephan JL, Lougaris V, Brodzki N, Barlogis V, Asano T, Galicier L, Boutboul D, Nonoyama S, Cant A, Imai K, Picard C, Nejentsev S, Molina TJ, Lenardo M, Savic S, Cavazzana M, Fischer A, Durandy A, Kracker S. *J Allergy Clin Immunol*, 2016 Jul;138(1):210-218.e9.

Loss-of-Function of Htra1 Abrogates All-Trans Retinoic Acid-Induced Osteogenic Differentiation of Mouse Adipose-Derived Stromal Cells Through Deficiencies in p70S6K Activation. Glanz S, Mirsaidi A, López-Fagundo C, Filliat G, Tiaden AN, Richards PJ. *Stem Cells Dev*, 2016 May 1;25(9):687-98.

The bromodomain inhibitor N-methyl pyrrolidone reduced fat accumulation in an overietomized rat model. Gjoksi B, Ghayor C, Bhattacharya I, Zenobi-Wong M, Weber FE. *Clin Epigenetics*, 2016 Apr 22;8:42.

Zeolite A effect on calcium homeostasis in growing goats. Schwaller D, Wilkens MR, Liesegang A. *J Anim Sci*, 2016 Apr;94(4):1576-86.