



Dear CABMM members and friends,

I am very happy to provide you with the next CABMM Newsletter, informing you about the latest news from the CABMM and our network.

### CABMM events

I start with revisiting the 12<sup>th</sup> CABMM Symposium that took place on June 29<sup>th</sup>, 2023, at the University of Zurich. Under the slogan "all about tendons", the first part was devoted to tendon repair and regeneration, providing a comprehensive overview of the topic

across the translational pipeline. The event opened with an engaging keynote lecture given by Prof. Karl Wieser from Balgrist University Hospital Zurich, who shared the view of a human clinician. His presentation was followed by a talk of our longstanding CABMM member Prof. Anton Fürst, providing insights into the topic from the veterinary medicine perspective, spiced up with stories about tendon injuries of his own horses. The subsequent presentations focused on industry developments, new treatment options, and the respective regulatory requirements. Elias Bachmann, co-founder of ZuriMED Technologies AG, shared his hitherto journey of bringing a new product to the market. Alexis Laurent talked about a new cell-based treatment regime. CABMM member Prof. Lee Ann Laurent-Applegate highlighted regulatory aspects in the field Good Clinical Practice (GCP), and the Scientific Coordinator of the CABMM, Dr. Salim Darwiche, showcased preclinical *in vivo* studies in compliance with Good Laboratory Practice (GLP).

The event closed with presentations of two collaborative CABMM Start-up Grant projects by our members Dr. Stefan Dudli and Prof. Antonio Pozzi.

In summary, we can look back on a very successful event with exciting and insightful presentations and a lively exchange on a variety of topics, showcasing the translational character of the CABMM and offering great networking possibilities. I would also like to take this opportunity to thank all speakers and participants for making the 12<sup>th</sup> CABMM Symposium such a great event!



Moreover, as the next event is always around the corner, I am glad to already announce the dates for the CABMM events in 2024:

CABMM Winter Colloquium: Thursday, January 18<sup>th</sup>, 2024  
CABMM Symposium: Thursday, June 6<sup>th</sup>, 2024

Please reserve the dates in your calendar and don't miss our exciting events! We are very much looking forward to welcoming you!

### News from the CABMM Steering Committee

I have also news from the CABMM Steering Committee to share with you:

Prof. Dr. Dr. Michael O. Hottiger was elected as new chair of the board at the last CABMM Steering Committee Meeting at the end of June. He assumed office from Prof. Dr. Dr. Simon P. Hoerstrup, who had had the CABMM's fortune in his hands since 2018, and now stepped back from the position as chair due to time constraints. However, we are very pleased to have Simon retain his general membership in our board. I would like to thank both, Simon and Michael, for their unremitting commitment to the CABMM, as founding members and as previous and new chair of the CABMM Steering Committee, respectively. Thank you!

I am also very pleased to inform you that Dr. Katja Nuss, Co-Director of the Musculoskeletal Research Unit (MSRU), joined the CABMM Steering Committee at the end of last year after being elected by the plenum. We are convinced that she will add great value to our board. Particularly, her knowledge and expertise in Good Laboratory Practice (GLP) are considered to be of major importance. Moreover, the board believes that it would be beneficial to have the MSRU as one of the core groups of the CABMM member network represented in the committee again, which is expected to reinforce and strengthen the longstanding close collaboration between CABMM and MSRU.

Dr. Katja Nuss herself describes her motivation for committing to the position as follows:

*"I am interested in serving on the CABMM Steering Committee because I strongly believe in interdisciplinary cooperation and in the benefit of round table with experts in different fields. In the past, the MSRU has had contact with a lot of CABMM members and collaborated with some of them in *in vitro* and *in vivo* research projects. To further activate collaborations within the CABMM and also to the scientific community would be my main interest, in order to offer a framework for a broad knowledge exchange and fruitful synergies."*



*The MSRU's GLP accreditation has attracted a large number of research groups and a considerable part of our studies are now performed under this internationally recognized quality attribute. My aim would be to further encourage researchers to take into account the advantages of studies performed under GLP standards. In this context, studies are accepted by regulatory agencies like the USFDA and the use of experimental animals can be reduced, because repetitive tests are avoided."*

Welcome to the CABMM Steering Committee, Katja! We thank you for your commitment and looking forward to working with you!

Finally, as always, I would like to thank all of you, as your trust and interest in the CABMM as well as your continuous support have made the CABMM what it is today.

I wish you nice and relaxing summer holidays and send my best regards,

Silke Kalchofner-Mark, PhD  
Managing Director of the CABMM



# Newsletter

## Publications

TFOS Lifestyle: Impact of elective medications and procedures on the ocular surface. Gomes JAP, Azar DT, Baudouin C, Bitton E, Chen W, Hafezi F, Hamrah P, Hogg RE, Horwath-Winter J, Kontadakis GA, Mehta JS, Messmer EM, Perez VL, Zadok D, Willcox MDP. *Ocul Surf*, 2023 Apr 20; S1542-0124(23)00037-X [Epub ahead of print]

Lyophilized Progenitor Tenocyte Extracts: Sterilizable Cytotherapeutic Derivatives with Antioxidant Properties and Hyaluronan Hydrogel Functionalization Effects. Laurent A, Porcello A, Jeannerat A, Peneveyre C, Coeur A, Abdel-Sayed P, Scaletta C, Michetti M, de Buys Roessingh A, Jordan O, Allémann E, Raffoul W, Hirt-Burri N, Applegate LA. *Antioxidants (Basel)*, 2023 Jan 10;12(1):163

Blood oxygenation-level dependent cerebrovascular reactivity imaging as strategy to monitor CSF-hemoglobin toxicity. Thomson BR, Richter H, Akeret K, Buzzi RM, Anagnostakou V, van Niftrik CHB, Schwendinger N, Kulcsar Z, Kronen PW, Regli L, Fierstra J, Schaar DJ, Hugelshofer M. *J Stroke Cerebrovasc Dis*, 2023 Mar;32(3):106985

A Bioinspired Orthopedic Biomaterial with Tunable Mechanical Properties Based on Sintered Titanium Fibers. Rüger M, Seitz AM, Nuss K, von Rechenberg B, Seitz D, Kostmann C, Quadbeck P, Andersen O, Collins C. *Adv Healthc Mater*, 2023 Jan;12(2):e2202106

Osteoconductivity of bone substitutes with filament-based microarchitectures: Influence of directionality, filament dimension, and distance. Guerrero J, Ghayor C, Bhattacharya I, Weber FE. *Adv Int J Bioprint*, 2022 Oct 27;9(1):626

Magnetic field therapy enhances muscle mitochondrial bioenergetics and attenuates systemic ceramide levels following ACL reconstruction: Southeast Asian randomized-controlled pilot trial. Stephenson MC, Krishna L, Pannir Selvan RM, Tai YK, Wong CJK, Yin JN, Toh SJ, Torta F, Triebel A, Fröhlich J, Beyer C, Li JZ, Tan SS, Wong CK, Wenk MR, Totman JJ, Franco-Obregón A. *J Orthop Translat*, 2022 Oct 13;35:99-112

Refinement of water-filtered infrared A (wIRA) irradiations of in vitro acute and persistent chlamydial infections. Kuratli J, Leonard CA, Frohns A, Schoborg R, Piazena H, Borel N. *J Photochem Photobiol B*, 2022 Sep;234:112533

Intervertebral disc cell chondroptosis elicits neutrophil response in Staphylococcus aureus spondylodiscitis. Schweizer TA, Andreoni F, Acevedo C, Scheier TC, Heggli I, Maggio EM, Eberhard N, Brügger SD, Dudli S, Zinkernagel AS. *Front Immunol*, 2022 Jul 28;13:908211

Intervertebral Disc-on-a-Chip as Advanced In Vitro Model for Mechanobiology Research and Drug Testing: A Review and Perspective. Mainardi A, Cambria E, Occhetta P, Martin I, Barbero A, Schären S, Mehrkens A, Krupkova O. *Front Bioeng Biotechnol*, 2022 Jan 28;9:826867

## Member presentations

We would like to welcome the following members in our network:

### Prof. Dr. med. vet., Dr. sc. nat. Enni Markkanen

*Institute of Veterinary Pharmacology and Toxicology, Vetsuisse Faculty, University of Zurich*

Our vision is to leverage the power of comparative oncology between humans, cats and dogs to improve the diagnosis and therapy of cancer in all three species – from patient to the bench and back. Currently, our research is focused on understanding the mechanisms by which stroma influences growth and malignancy of tumours, and the identification of novel targets for improved imaging and therapy of soft tissue sarcomas in human, canine and feline patients.



### Dr. med. Michael Hugelshofer

*Department of Neurosurgery, University Hospital Zurich*

Dr. Hugelshofer is an academic neurosurgeon currently working as an attending physician at the University Hospital Zurich. In addition, he leads a research group with a focus on neurovascular pathologies. In his role as PI at the ZNZ and in the Clinical Science PhD program of the faculty of medicine, he supervises ongoing translational research projects with the aim to improve diagnostic and therapeutic approaches to prevent secondary brain injury after intracranial hemorrhage.



## Congratulations

We would like to extend our warmest congratulations to CABMM member **Jivko Stoyanov** on his appointment as affiliated professor at the Institute of Social and Preventive Medicine at the University of Bern.

Congratulations to **Christoph E. Albers** on his appointment as associate professor at the University of Bern and his position as deputy director of the Department of Orthopedic Surgery and Traumatology at University Hospital of Bern.

CABMM member **Markus Loibl** from the Schulthess Clinic Zurich was appointed professor for orthopaedics and trauma. Congratulations!

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