



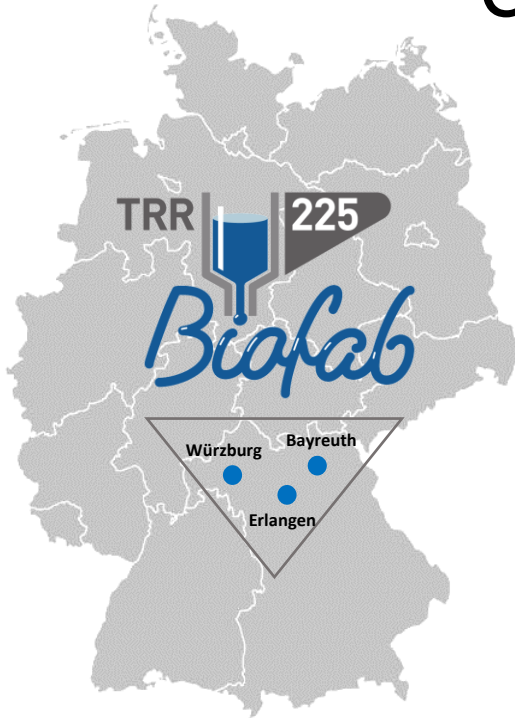
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## CLINICAL APPLICATIONS OF BIOPRINTING

Wednesday 22 April, 8:45h  
Auditorium Illes Balears

### „Towards Clinical Translation of Bioprinting for Soft Tissue Reconstruction“

(P. Gatenholm, K. Oskarsdotter, P. Apelgren, K. Säljö, L. Kölby,  
J. Van Dongen, T. Blunk, E. Thompson, V. Kuzmenko)



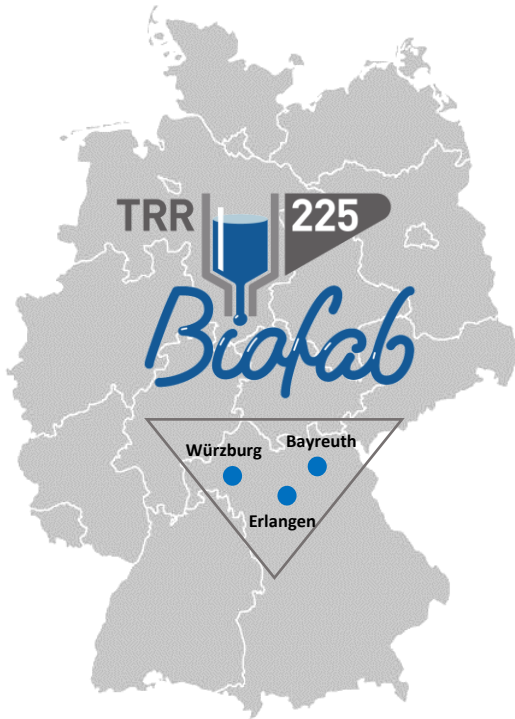


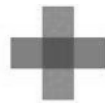
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## RECOMBINANT PROTEINS FOR TISSUE ENGINEERING APPLICATIONS

*Wednesday 22 April, 13:15h  
Santa Catalina Room*

„Bio-engineering of recombinant  
spider silk proteins for  
biomedical applications“  
(T. Scheibel)





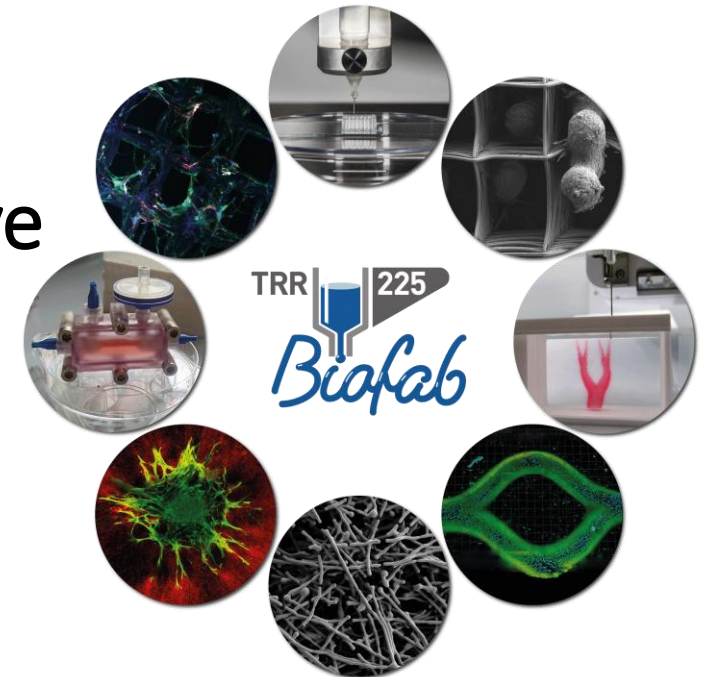
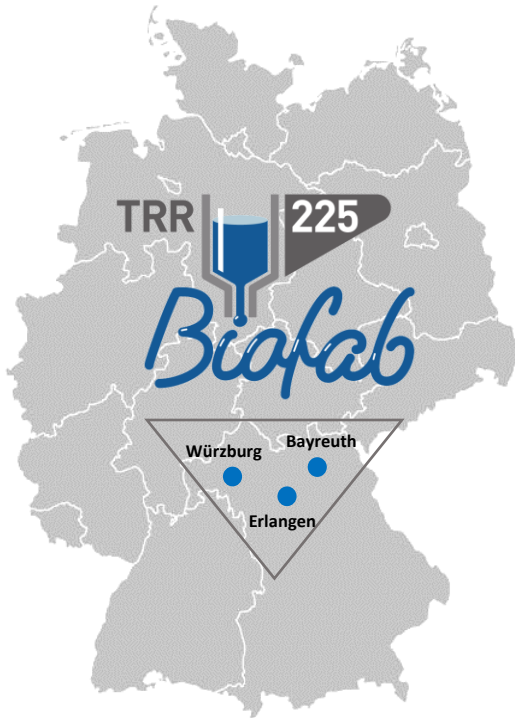
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## RECOMBINANT PROTEINS FOR TISSUE ENGINEERING APPLICATIONS

*Thursday 23 April, 10:45h  
Auditorium Illes Balears*

„Rewiring the scar: from conductive  
materials to cardiac arrhythmia“

(K. Roshanbinfar, A. Blaeser, F. B. Engel)





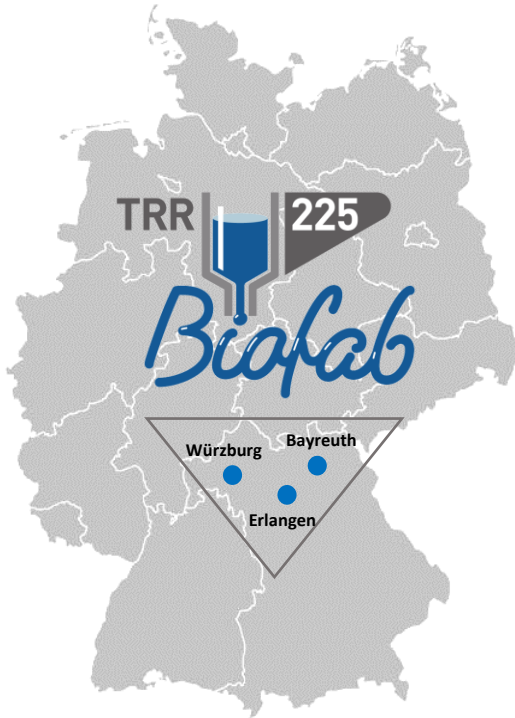
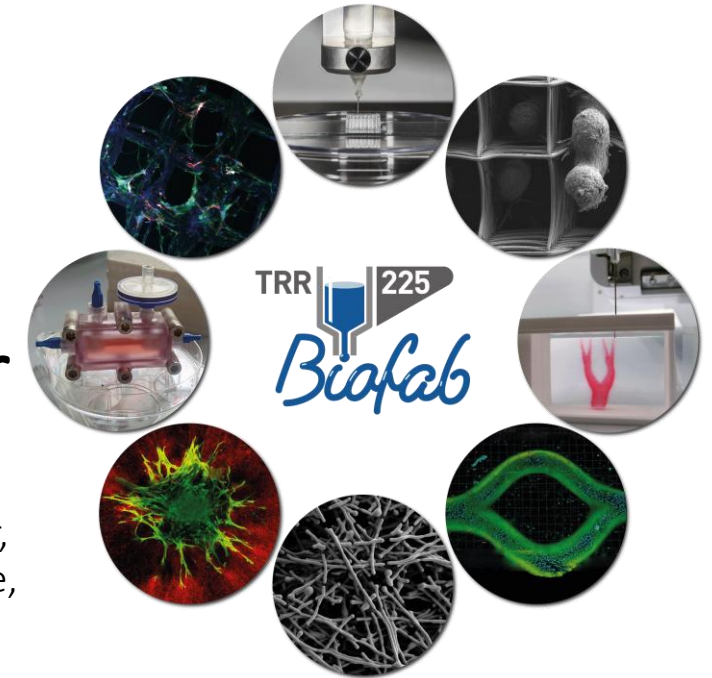
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## RECOMBINANT PROTEINS FOR TISSUE ENGINEERING APPLICATIONS

*Thursday 23 April, 11:45h  
Auditorium Illes Balears*

„From mini to human size:  
mechanical stimulation bioreactor  
for large cardiac 3D constructs“

(G. A. Goienetxe, O. Iglesias-García, U. Urtaza, E. Larequi, I. A. Luser, P. Nuin-Villabona, A. Ullate-Agote, J. Braig, J. Groll, T. Jüngst, J. Conte, P. Moreo, F. Prosper, A. M. Zaldua, M. M. Mazo Vega)





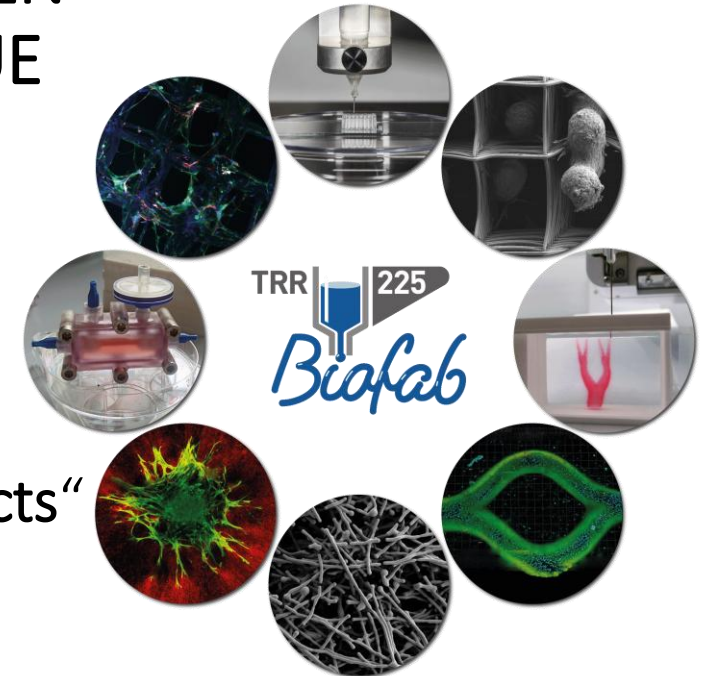
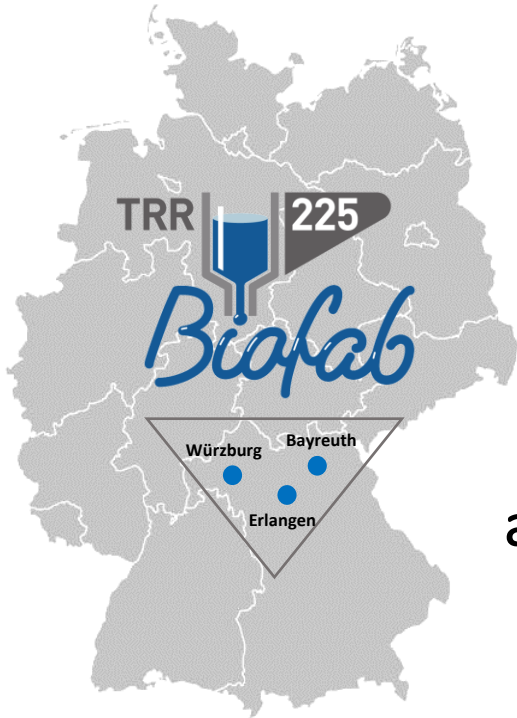
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## STRUCTURAL ENGINEERING OF COLLAGEN ARCHITECTURE FOR FUNCTIONAL TISSUE REGENERATION

Thursday 23 April, 11:55h  
Ibiza 1 Room

„Melt electrofibrillation improves induced  
pluripotent stem cell-derived cardiomyocyte  
anisotropy in cardiac tissue-engineered constructs“

(J. Janssen, M. Henderson, L. Spauwen, A. Pueyo Moliner, J. Groll,  
J. Malda, J. Sluijter, A. Van Mil)





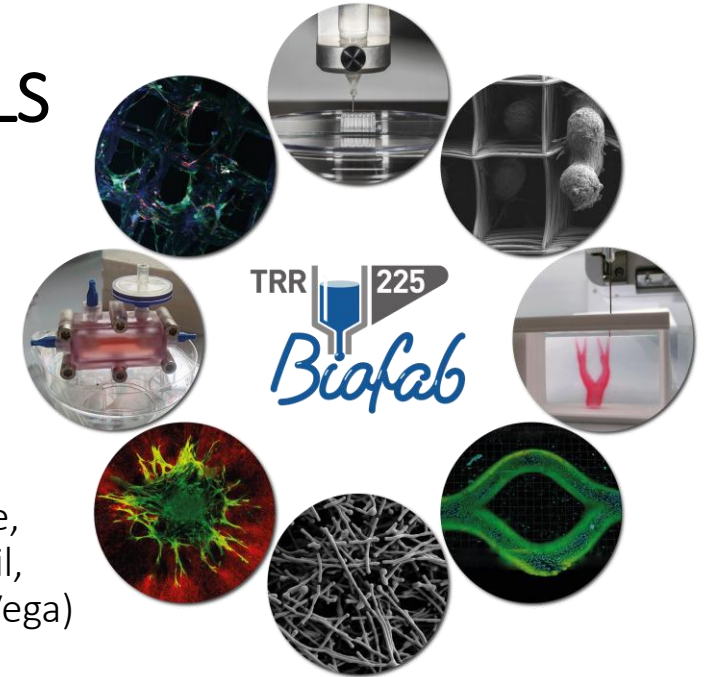
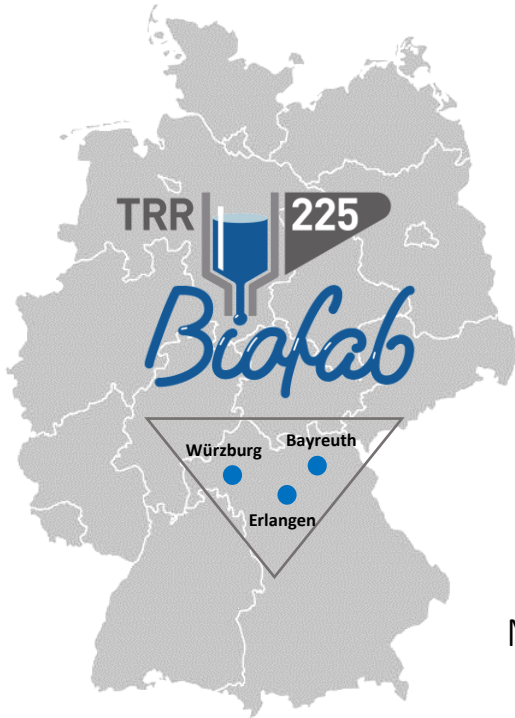
# CRC/TRR225 contributions at the TERMIS 2026 - *Talks*

## NEXT-GENERATION STRATEGIES FOR CARDIAC REGENERATION: BRIDGING THERAPIES AND TRANSLATIONAL MODELS

Thursday 23 April, 14:15h  
Menorca Room

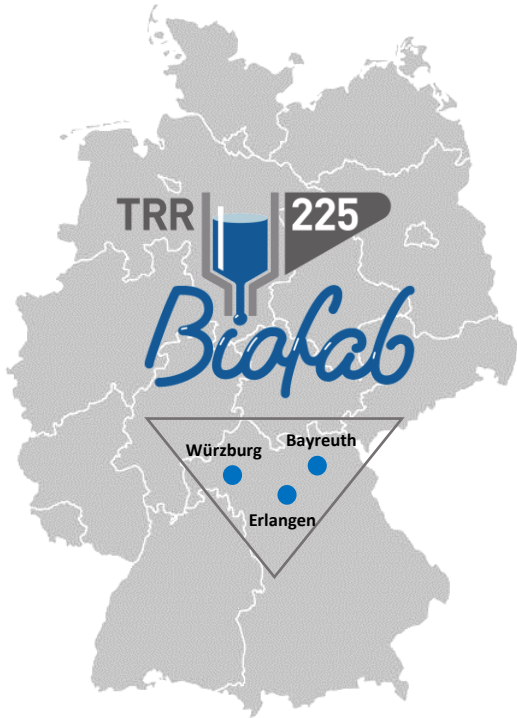
„Ex-vivo transplantation and cardiac risk  
assessment of a clinically relevant  
myocardial patch“

(O. Iglesias-García, A. Simón, H. Toda, M. Couselo, A. Redondo, P. Lee,  
E. Larequi, I. Anaut-Lusar, J. Braig, M. E. Fernández-Santos, A. Van Mil,  
M. Serra, J. Groll, T. Jüngst, F. Prósper, D. Filgueiras-Rama, M. M. Mazo Vega)





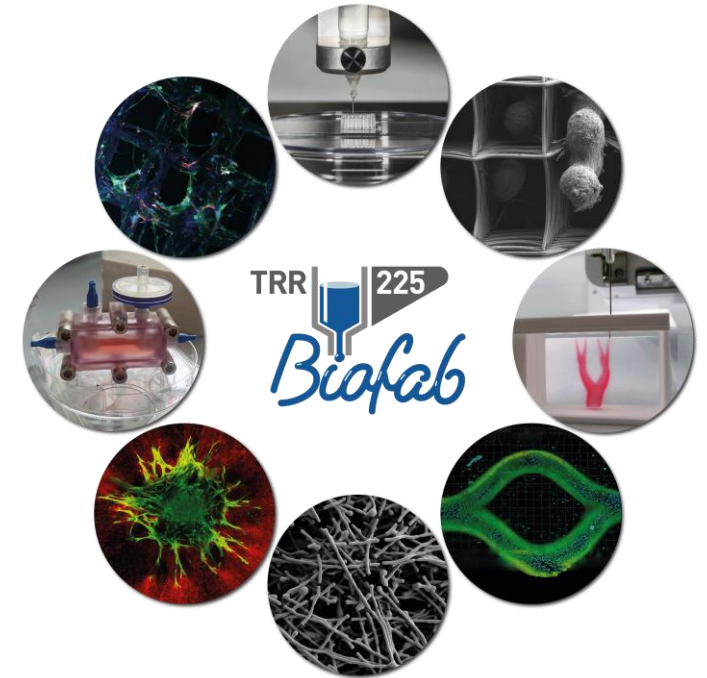
# CRC/TRR225 contributions at the TERMIS 2026 - Talks

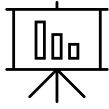


## Bioprinting

Thursday 24 April, 10:00h  
Amphitheatre Balears

„Fibroprinting: Where 3D Printing  
Marries Fiber Spinning“  
(L. Ionov)





# CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session I*

## BIOFABRICATION, BIOPRINTING & ADVANCED MANUFACTURING

*Panoramic Hall (Floor 3)*



**Biofabrication based on combined 3D bioprinting and in-situ mechanical fiber spinning**

L. Ionov



**Hierarchical melt-electrowritten vascular grafts with spatially defined porosity and layer specific cell alignment**

J. Meijer, M. Bartolf-Kopp, E. Bergsma, K. Moyo, T. Jungst, D. Gawlitta



**Multispheroid bioassembly through meltelectrowriting for thyroid invitromodels**

C. Mussoni, I. Jun, T. Ahmad



**Fiber-reinforced spider silk hydrogels**

C. Heinritz, T. Scheibel



**Biofabricating vascularized liver models: advancing long-term primary hepatocyte cultivation**

V. Priebe, D. Dorbath, Z. Lamberger, C. Gergely, L. De Silva, P. Kuntschke, J. Groll, M. Ryma, H. M. Hermanns





# CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session I* BIOFABRICATION, BIOPRINTING & ADVANCED MANUFACTURING

*Panoramic Hall (Floor 3)*



## **Freeform Printing of Poly(2-cyclopropyl-oxazoline) directly inside perfusion systems for the biofabrication of complex vascular designs**

G. M. Di Gravina, P. Kuntschke, K. Schumann, M. Leiske, T. Scheibel, M. Ryma



## **From breast to ink: studying breast cancer in a 3D-printed tumor model made from human breast tissue**

K. U. Kramer, M. Reichert Juana, R. Schmid, J. Röder, A. R. Boccaccini, Z. Lamberger, P. Stahlhut,  
G. Lang, S. K. Schmidt, J. Faber, S. Budday, A. Arkudas, R. E. Horch, A. Kengelbach-Weigand



## **The effect of different types of hyaluronic acid on endothelial cell spheroid sprouting in an in-gel bioprintable system**

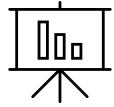
R. Schmid, M. Fiedler, S. Schrüfer, J. Bauer, T. U. Esser, F. B. Engel, A. Arkudas, R. E. Horch,  
O. Friedrich, D. W. Schubert, A. R. Boccaccini, A. Kengelbach-Weigand



## **Additively Manufactured Multifunctional Bioreactors for Biofabrication of Muscle Tissue under Dynamic Culture**

Sahar Salehi-Müller, L. Sprenger, J. Schorzmann, H.-H. Lu, M. Osama, J. Bauer, M. Haug,  
O. Friedrich, A.R. Boccaccini, F. Döpfer





## CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session I* BIOMATERIALS & BIOINTERFACES

*Panoramic Hall (Floor 3)*



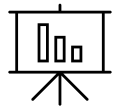
**From biodegradation to immunomodulation: evaluating novel polymeric blends for cardiovascular applications**

K. Polak-Krasna, H. Alkhamis, A. Ritschel, L. Shopperly, H. Moradian, S. Salehi, A. Neffe



**Novel modified spider silk-based films and foams for biomedical applications**

M. Sponbrucker, S. Mohotti, T. Scheibel



## CRC/TRR225 contributions at the ISFB2026 – *Poster Session I* CARDIAC & VASCULAR TISSUE ENGINEERING

*Panoramic Hall (Floor 3)*



**From barrier to breach: a 3D microvascular model to assess barrier disruption and recovery**

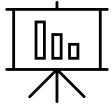
L. De Silva, P. Kuntschke, K. Theis, A. Radüchel, J. Groll, M. Ryma



**Vasc-on-demand: a platform technology for integrable and functional vascularization for tissue engineering**

L. De Silva, P. Kuntschke, A. Radüchel, J. Groll, M. Ryma





## CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session II* CARDIAC & VASCULAR TISSUE ENGINEERING

*Panoramic Hall (Floor 3)*



**Electrical conductivity in biomaterial design: from engineered in vitro cardiac tissues to in vivo myocardial repair**

K. Roshanbinfar, F. B. Engel



## CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session II* MUSCLE, TENDON & LIGAMENT ENGINEERING

*Panoramic Hall (Floor 3)*



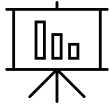
**Exploring the potential of 3D engineered skeletal muscle to serve as an accurate depiction of in vivo muscle metabolism**

A. Gioran, P. Milkin, L. Ionov, S. Salehi-Müller

**Magnetic actuation of muscle cells via dynamic fields and microsphere-mediated mechanotransduction**

T. C. Rodrigues, A.-L. Bauknecht, S. Rosenfeldt, D. Dickes, J. Schorzmann, R. Richter, E. A. Cavalcanti-Adam, F. Döpfer, A. J. O'Connor, S. Salehi





# CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session II*

## BIOFABRICATION, BIOPRINTING & ADVANCED MANUFACTURING

*Panoramic Hall (Floor 3)*



### **3D in vitro, in ovo and in vivo biofabricated models to study melanoma tumor dormancy and progression**

A. Kengelbach-Weigand, E. Sandor, T. Karimi, R. Schmid, C. Eckert, J. Röder, J. Faber, Z. Lamberger, S. Budday, G. Lang, D. Schneidereit, O. Friedrich, A. Grüneboom, A. R. Boccaccini, R. E. Horch, A. K. Bosserhoff, A. Arkudas



### **Spatially organised, bioprinted 3D multicellular tumour microenvironment platforms for high-content live imaging and drug screening**

A. Krolinski, M. Morenc, M. Robitaille, G. Monteith, O. Friedrich, D. W. Hutmacher, N. Bock



### **Topography-driven alignment of collagen type II networks in engineered cartilage via fabricated nanofibrillar-bundles**

A. Pueyo Moliner, L. Spauwen, Á. García Grech, A. K. Özenler, A. Mensinga, M. Ryma, J. Groll, M. De Ruijter, J. Malda



### **Reproducible 3D bioprinting and complex mechanical properties of alginate-gelatin hydrogel constructs with decreased concentrations**

A. Ahmadi Soufivand, M. Buss, E. D. Bicer, E. Zanjani, S. Budday





# CRC/TRR225 contributions at the TERMIS 2026 – *Poster Session II*

## BIOMATERIALS & BIOINTERFACES

*Panoramic Hall (Floor 3)*



**Aligned nanofibrillar microbundle scaffolds produced by melt electrofibrillation drive enhanced myogenic induction in human adipose-derived stem cells**

C. Mussoni, J. Groll, T. Ahmad

