



Design and Fabrication of Artificial Stem Cell Microenvironments II

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editor

Dear Colleagues,

It is well known that the native stem cell niche plays a key role in dictating stem cell fate and that being able to recapitulate specific features of this intricate environment can open the door to the development of more efficient biomaterials for tissue regeneration applications. Many research groups are now directing their efforts towards the design and manufacture of topographically controlled biomaterials that are able to mimic different aspects of the native stem cell niche, looking at both the niche physical/spatial distribution as well as its biochemical/biomechanical conformation. Last year I had the pleasure of leading the development of a special issue in this area with the journal Bioengineering; this issue was very well received and we were proud to publish a palette of interesting and high quality papers in the field. We now have the opportunity to work on a second volume for this issue which will focus again on “Design and Fabrication of Artificial Stem Cell Niches” aiming to capture new approaches to designing functional synthetic niche environments in the form of original research papers as well as comprehensive reviews.





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