Opening for PhD Position

Title: Spatio-temporal mechanobiology of three-dimensional cell collectives
at the Max Planck Institute for Medical Research Dep. of Cellular Biophysics & University of Heidelberg, Dept. Biophysical Chemistry.

Work place: Stuttgart

Project Description:
Cells in our body reside mostly within the confined environment of tissues, having complex connections with the neighboring cells and the extracellular matrices. Cell-cell pulling forces and cell-matrix traction forces play as a mode of information transfer for realizing these connections into biochemical events. Further, the physical and chemical nature of the micro-confinements surrounding the cells, strongly influence their phenotypes and more importantly their behavior as part of a collective. The project will consist in the biophysical analysis of the mechanism controlling collective migration in physiologically relevant 3-dimensional cell cultures.

More information of the current projects is available on:
http://www.is.mpg.de/de/spatz/das/research

We offer:
We offer a close supervision aiming to form a competitive independent scientist in the field of mechanobiology. In addition the PhD will be carried in a highly interdisciplinary and creative international research group giving the opportunity to learn cutting-edge tools of biophysical research.

Your skills and qualifications:
A good academic background in physics, biophysics, bioengineering or related disciplines. Sound knowledge of cell biology will be appreciated. Candidates should have a positive attitude towards working in an interdisciplinary environment that this institute offers.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

To apply, please send by email your application curriculum vitae, a letter of motivation and the names of two academic referees to Dr. Jacopo Di Russo (Email: jdirusso[at]is.mpg.de) or Prof. Dr. Joachim Spatz (Email: spatz[at]is.mpg.de).

Application Deadline: April 1st 2017