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SANTA BARBARA • SANTA CRUZ

BERKELEY, CALIFORNIA 94720-7300

DEPARTMENTS OF PHYSICS AND INTEGRATIVE BIOLOGY
274D Stanley Hall #3220
TEL: +1 (510) 725 5359
hallatscheklab.berkeley.edu

Postdoctoral position

# Mechano-biology of microbial communities

The Hallatschek lab in Berkeley combines experiments and theory to predict emerging biophysical phenomena in living systems. We are now seeking a highly motivated experimental postdoc to resolve the fundamentals of mechano-biology in microbes: When cells grow in crowded environments, they have to exert mechanical forces in order to divide. When these forces become large they can feedback onto the physiology of the cells, for instance, by limiting the growth of the cells. The postdoc will be involved in a NIH funded research project that aims at investigating the biological underpinnings of the feedback between forces and growth, first focusing on our model system *S. cerevisiae* and, as a next step, tumor cell lines. A preprint on our first results is available on request.

The primary responsibility of the postdoc will be to carry out research in order to dissect the feedback between forces and growth in populations of budding yeast. The experiments involve state of the art microfluidics, molecular and cell biology (in particular yeast genetics) and modeling. Prior knowledge in any and interest in all of these fields is highly desirable. The advertised position is a very good opportunity for motivated and creative individuals to participate in a highly interdisciplinary and innovative line of research. For more information about both our research and these positions, please visit our group website at: hallatscheklab.berkeley.edu

Minimum/Basic Qualifications Required (By the time of application): Ph.D. or equivalent in Molecular and Cell Biology, Biophysics or related fields. Achieving the research goals will require detailed quantification and comparison with predictive models, most likely in a close collaboration with theorists. Experience in microbiology, in particular yeast genetics, and microfluidics will be considered positively.

The starting date is negotiable but must be within three years of when the Ph. D. or equivalent degree was awarded. Appointment: This position reports to Dr. Oskar Hallatschek. The initial appointment will be for 100% time for 1 year with the possibility of extension based on performance and funding. The approximate start date for this position is September 1 2016

Salary: $42,840 - $50,112 depending on qualifications. This position provides full benefits.

To apply: Send an email to ohallats@berkeley.edu. Interested individuals should submit application documents as PDFs, which includes an updated curriculum vitae, and names with contact information for 3-5 individuals who have agreed to provide a reference for this specific position and a cover letter. Letters of reference may be requested for the finalists. This recruitment will remain open until the position is filled. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party

(i.e., dossier service or career center), to the UC Berkeley statement of confidentiality prior to submitting their letters. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: http://bit.ly/1tbbcKE. The department is interested in candidates who will contribute to diversity and equal opportunity in higher education through their work.

With kind regards,

Oskar Hallatschek
Assistant Professor & William H. McAdams Chair