

PhD position - Single-molecule imaging in bacteria

We offer a PhD position to study signaling processes in bacteria using single-molecule imaging and super-resolution techniques. The project aims to derive quantitative information on how proteins localize, organize, move and interact in single *E. coli* cells.

Our interdisciplinary research group of chemists, biologists and physicists is located in the Chemistry Department, Institute for Physical and Theoretical Chemistry, at the Johann Wolfgang Goethe University in Frankfurt am Main. We work at the interface between biology and physics further developing single-molecule and super-resolution techniques and applying these to answer biological questions (further information at www.smb.uni-frankfurt.de).

We seek for candidates with a strong background in microbiology/biology, and ideally some experience in advanced microscopy techniques.

Please send your application by email to

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References

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Spahn, C.; Endesfelder, U. & [Heilemann, M.](#)[#] (2014). Super-resolution imaging of *Escherichia coli* chromosomes reveals asymmetric replication and segregation. *J Struct Biol*, **185**(3), 243-9.

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