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Imaging plasma membrane domains in signal transduction pathways

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Citation

Pezzarossa, A. (2012, March 13). *Imaging plasma membrane domains in signal transduction pathways*. Retrieved from https://hdl.handle.net/1887/18585

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Note: To cite this publication please use the final published version (if applicable).

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Author: Pezzarossa, A.
Title: Imaging plasma membrane domains in signal-transduction pathways
Issue Date: 2012-03-13

Publication list

- Pezzarossa, A., Fenz, S., Schmidt, T. (2011) "Probing structure and dynamics of the cell membrane with single fluorescent proteins." *Springer Series on Fluorescence*, Vol. 113. Ed.: G. Jung.

- Fenz, S., Pezzarossa, A., Schmidt, T. (2012) "The Basics and Potential of Single-MoleculeTracking in Cellular Biophysics." *Comprehensive Biophysics*, Ed.: P. Schwille.

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- Pezzarossa, A., Zosel, F., Schmidt, T. "Dynamic partitioning of HRas studied with high resolution imaging" (in preparation).

- Pezzarossa, A., Piehler, J., Schmidt., T. "Effects of membrane compartmentalization and relative concentration on type I interferon receptor assembly in living cells." (in preparation).

- Pezzarossa, A., Pinaud, F., Schmidt, T. "Is there evidence for hop-diffusion? GPI-anchor protein diffusion at microsecond time-scale." (in preparation).

Curriculum vitae

Anna Pezzarossa was born in Parma, Italy on February 13, 1982. She studied Physics at the University of Parma, receiving her bachelor degree in October 2005. She then joined the Master in Biophysics program at the University of Parma, earning her degree in April 2008. In 2007 she obtained a Erasmus fellowship by which she was able to join the lab of Prof. Thomas Schmidt in Leiden, The Netherlands, for her MSc thesis project. During this project she applied single-molecule fluorescent microscopy to study the chemotactic receptor CAR1 mobility in the amoeba *Dictyostelium discoideum*. In November 2007 she started her PhD in the Physics of Life Processes group at Leiden University, the Netherlands, under the supervision of Prof. Thomas Schmidt. The results of her work are presented in this thesis. During the years of her PhD, Anna presented her work at various international conferences in the Netherlands, England and the USA. She supervised three Bachelor/Master projects and assisted with the courses on "Advanced Biophysics" and "Physics for Life Processes 1&2" at Leiden University.