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Single-molecule microscopy in zebrafish embryos

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Single-Molecule Microscopy in **ZEBRAFISH EMBRYOS**

R A D O S Ł A W J A K U B G Ó R A

Single-Molecule Microscopy (SMM) techniques constitute a group of powerful imaging tools that enable researchers to study the dynamic behavior of individual molecules.

In the research described in this doctoral thesis, SMM techniques have been developed to image individual proteins inside cells of a living zebrafish embryo model and to study patterns of their mobility.

The results of the mobility pattern analyses offer new insights into the dynamics of single molecules diffusing inside cells within the context of an intact vertebrate organism.

