

## Supervisor Expression of Interest MSCA-IF Marie Skłodowska Curie Action-Individual Fellowship 2020

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<b>Research Topic:</b>	Innovative solutions to catalytic activation modes of C—C bonds in organic matter
<b>Brief description of the research project idea:</b>	
<p><b>Innovative solutions to catalytic activation modes of C—C bonds in organic matter</b></p> <p>The discovery and development of general platforms for the modification of C—C bonds is of high interest across chemical and biological sciences. New fundamental approaches to tackle the well-known problems related with the catalytic and selective C—C bond activation are needed. The general strategies of the future should allow synthetic chemists to look at a molecule and consider simply which C—C bond(s) should be broken to facilitate the direct synthesis of a molecule.</p> <p>This project will explore innovative solutions to catalytic activation modes of C—C bonds in organic matter. Those methodologies will solve important problems in the synthesis of complex molecules and be used in the late-stage C—C bond cleavage in complex architectures, such as medically relevant agents, biomolecules and functional materials.</p>	