CONSORTIUM MEMBERS

















































nnovative Training Network - European Industrial Doctorates This project has received funding from the European Union's Horizon 2020 research and nnovation program under the Marie Skłodowska-Curie grant agreement No 860141.

INTERfaces ESRs will combine material science and protein engineering to design tailored enzymes and (bio-based) materials that will complement each other to obtain optimized heterogeneous biocatalysts.

These tools will be applied to solve synthetic challenges in the use of two biobased monomers as starting materials to synthesize products for application fields like antioxidants and biopolymers.



H2020

INTERfaces

Innovative Training Network (ITN) European Industrial Doctorates

in H2020-MSCA-INTERfaces



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Nature has complex and beautifully working multi-step reactions that are found in all living organisms.

Assoc. Prof. Dr. Selin Kara

WE ARE WORKING TOGETHER

to large-scale production companies, are taking part in the project.



industrial مَّدُ industria مُحُمُّ partners



Ph.D positions

PhD training on cutting-edge projects at the interface between research and industry

Therefore, the strong involvement of three large companies and ten high-tech start-ups is crucial to achieve our goals in this project.

Commercial relevant processes will be up-scaled together with industry for technical implementation.



INTERfaces

will train 14 Early State Researchers (ESRs) for engineering of the designed cascades in solid phase. This includes;



the design of material





the design of reactors and





WP1 Material and Protein Design

WP1 aims to develop a toolbox for material design, surface modification techniques, protein engineering methods to fulfill the demand of preparation and implementation of heterogeneous (bio)catalysts.

WP2 Assembly of heterogeneous (bio)catalysts

WP2 assembles multi-functional heterogeneous (bio)catalysts with desired spatial arrangements (compartmentalization or co-localization) to develop efficient reaction sequences to obtain valuable biobased derivatives.

WP3 Process engineering & up-scaling

WP3 focuses on technical implementation of the heterogeneous cascades either with compartmentalization or co-localization techniques for the synthesis of (bio-based) chemicals with the targeted productivities.

We're taking the first steps toward understanding the needs of complex multi-enzymatic reactions.