




POLISH NATIONAL AGENCY  
FOR ACADEMIC EXCHANGE



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PROGRAMME

<b>name of the unit:</b> <b>ORGANO-PHOTO-ELECTROCATALYTIC GROUP</b> Institute of General and Ecological Chemistry, Faculty of Chemistry, Lodz University of Technology		<b>symbol:</b> <b>I-31</b> <a href="https://ichoie.p.lodz.pl/">https://ichoie.p.lodz.pl/</a>
<b>head of the unit:</b> Anna Albrecht, PhD, DSc, TUL Prof.	<b>potential promoters:</b> Anna Albrecht, PhD, DSc, TUL Prof.	<b>contact person:</b> Anna Albrecht, PhD, DSc, TUL Prof. phone: 42-631-31-55 <a href="mailto:anna.albrecht@p.lodz.pl">anna.albrecht@p.lodz.pl</a>
<b>scope of activities:</b> The main scientific topics realized in our group include: <ul style="list-style-type: none"><li>development of new decarboxylative methods for asymmetric synthesis of biologically relevant molecules</li><li>design of new reaction profiles involving electroorganic synthesis</li><li>development of new photocatalytic synthetic methods leading to biologically relevant heterocycles</li></ul>		<b>graphic material</b> 
<b>present activities:</b> <ul style="list-style-type: none"><li>experimental studies on visible-light driven reductive arylation of carboxylic acids</li><li>development of new organocatalytic methods for the synthesis of selected heterocyclic compounds based on decarboxylative approach</li><li>development of unconventional methods for the activation of organic compounds</li></ul>		
<b>Future activities:</b> Development of new photocatalytic reactions, studies on new electroorganic reactions		
<b>Keywords:</b> decarboxylative strategies, catalysis, chirality, asymmetric organocatalysis, photocatalysis, electrochemistry		
<b>Publications/patents, awards, projects:</b> <ol style="list-style-type: none"><li>Enantioselective Synthesis of Chromanones Bearing an <math>\alpha,\alpha</math>-Disubstituted <math>\alpha</math>-Amino Acid Moiety via Decarboxylative Michael Reaction Jan Bojanowski, Lesław Sieroń, Anna Albrecht, <i>Molecules</i>, <b>2019</b>, 24, 2565.</li><li>Pyridylacetic acids and related systems as alkylheteroarene surrogates in asymmetric decarboxylative Michael addition Sebastian Frankowski, Justyna Kowalska, Anna Albrecht <i>Chem. Commun.</i> <b>2021</b>, 57, 3387-3390.</li><li>Hydroxyl-group-activated azomethine ylides in organocatalytic H-bond-assisted 1,3-dipolar cycloadditions and beyond Artur Przydacz, Jan Bojanowski, Anna Albrecht, Łukasz Albrecht <i>Org. Biomol. Chem.</i>, <b>2021</b>, 19, 3075–3086.</li><li>Doubly Decarboxylative Synthesis of 4-(Pyridylmethyl)chroman-2-ones and 2-(Pyridylmethyl)chroman-4-ones under Mild Reaction Conditions Jan Bojanowski, Anna Albrecht <i>Molecules</i>, <b>2021</b>, 26, 4689.</li><li>Visible-light synthesis of 4-substituted-chroman-2-ones and 2-substituted-chroman-4-ones via doubly decarboxylative Giese reaction, Marek Moczulski, Ewelina Kowalska, Elżbieta Kuśmierk, Łukasz Albrecht, Anna Albrecht, <i>RSC Adv.</i>, <b>2021</b>, 11, 27782.</li></ol>		



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| 6. Decarboxylative cascade strategies in asymmetric organocatalysis 2017-2020, National Science Center, project number: 2016/21/D/ST5/01668 |
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<a href="#">List of attachments:</a>
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