



University of Warsaw  
Biological and Chemical  
Research Centre



UNIVERSITY  
OF WARSAW

# ORGANOMETALLIC SYNTHESIS LABORATORY





## ORGANOMETALLIC SYNTHESIS LABORATORY

### TEAM LEADER

**Prof. Karol Grela, PhD**

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Research Group Home: [www.karolgrela.eu](http://www.karolgrela.eu)

International group of 20+ people

Postdocs, PhD & MSc students



In order to facilitate  
the cooperation with CNBCh UW,  
we have created  
the Operators Corps:

- high class specialists
- solving commercial issues
- performing both routine analysis  
and specialized research tailored  
to the needs of service recipients

More information:

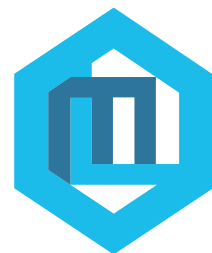
[www.cnbch.uw.edu.pl/#korpuseroperatorow](http://www.cnbch.uw.edu.pl/#korpuseroperatorow)





„I have always dreamed that my research would be practical. To leave a bio-refinery behind, or at least improve a production process of some medicine...”

prof. Karol Grela

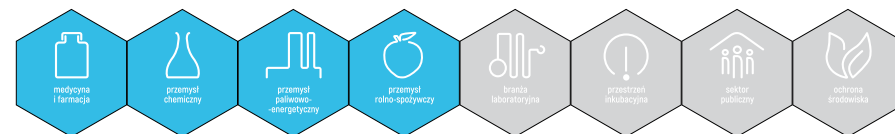


## ORGANOMETALLIC SYNTHESIS LABORATORY

**LEADER:**  
Prof. Karol Grela, PhD

**H-index: 42, 170+ papers, 10+ patents**

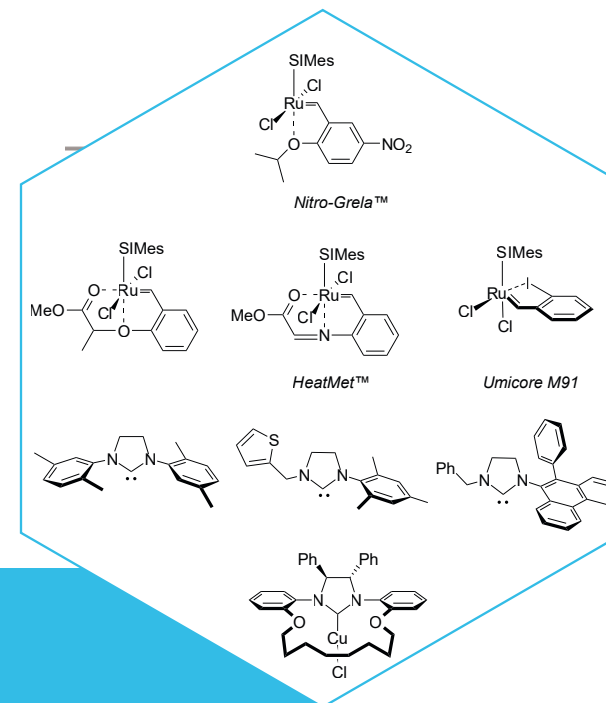
- Alexander von Humboldt Fellowship
- Foundation for Polish Science Prize
- Société Chimique de France Prize
- Prime Minister of Polish Government Prize
- Minister of Science and Higher Education Prize
- Klemm Lectureship of the German Chemical Society
- Member of the Editorial Board of the *Chemistry—A European Journal*
- Member of the Advisory Board of the *European Journal of Organic Chemistry*
- Member of the Scientific Advisory Board of the *Polpharma SA Pharmaceutical Company*
- Editor of the *Beilstein Journal of Organic Chemistry*



**RESEARCH:** Organometallic chemistry applied to organic synthesis

Research topics include design and synthesis of transition metal complexes and their use in catalytic organic reactions, particularly in synthesis of biologically-active compounds

- NHC ligands synthesis & utilisation
- Metal catalysed reactions
- Catalyst immobilisation and recycling
- Green & sustainable chemistry
- Natural & bioactive compounds
- Medicinal chemistry



Selected ruthenium olefin metathesis catalysts, NHC ligands and a chiral Cu-NHC catalyst, developed in Grela's group



**Selected scientific  
aparature:**

- NMR 400 MHz spectrometer with an autosampler
- Karl Fischer titrator
- Glove box with an integrated solvent drying kit
- Diffusion pump
- Autoclave reactors
- Continuous flow reactors
- Microwave reactor with a camera and extension enabling reactions with gaseous reagents
- GC, GC/MS, HPLC, flash chromatography system



- over 10 000 m<sup>2</sup> of laboratory space
- 50 study research groups
- a good place for science and business meetings
- over 500 research devices
- The University of Warsaw Biological and Chemical Research Centre has accreditation granted in 2014 by the **Polish Centre for Accreditation**. Accredited laboratories provide services in the field of chemical research: water, soil, food and chemicals. Experienced staff and adequate facilities hardware ensure efficient execution of orders and validity of results. Laboratories implement quality system and technically competent according to ISO/EIC 17025 standard.

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