

# Prospective supervisor's form

Name of the supervisor: Dariusz Witt

Academic title: Professor

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Gdańsk University of Technology Faculty of Chemistry

Department of Organic Chemistry

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Personal web page: <https://pg.edu.pl/> <https://chem.pg.edu.pl/kcho/>

Discipline: chemical sciences [NCh] none

Optional

Key words (obligatory four key words describing research interests / expertise):

# organic synthesis

# disulfides

# phosphorodithioic acid

# thiosulfonates

## Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 47/47

2. Citations excluding self-citations WoS 718 Scopus 718

3. Hirsch index WoS 16 Scopus 16

1. The number of PhD students who have graduated under your supervision: 3

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 1

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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Research interests or topics offered for PhD research (no more than 2000 characters)<sup>ii</sup>

My general research interests comprise organic chemistry at the interface to molecular self-assembly and nanotechnology. I am also interested in the technology transfer from University to Industry by implementation of scientific research result to manufacture the commercial products. Special scientific focus is placed on the various aspects of organic synthetic methodologies based on organophosphorus reagents to produce disulfides and other sulfanes.

Funding or special equipment needed to carry out a PhD project <sup>iii</sup>:

1. Is funding available for experimental work: *Yes/No/not needed*

No

2. Is the equipment needed to complete a PhD project

available in your lab/department: *Yes/No/not needed*

Yes

Most important publications – no more than 5 published after 1.01.2018

| No | Authors/title/journal  | Number of points according to the current list of the Ministry of Science and Higher Education | Publication year |
|----|--|--|------------------|
| 1. | Musiejuk, M.; Doroszuk, J.; Witt, D. "Convenient and efficient synthesis of functionalized unsymmetrical Z-alkenyl disulfanes", RSC Adv., 2018, 8, 9718–9722                             | 100  | 2018             |
| 2. | Doroszuk, J.; Musiejuk, M.; Ponikiewski, Ł.; Witt, D. "Convenient and Efficient Diastereoselective Preparation of Functionalized Z-Alkenyl Sulfides", Eur. J. Org. Chem. 2018, 6333–6337 | 70   | 2018             |

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|    |   |     |      |
|----|---|-----|------|
| 3. | Musiejuk, M.; Doroszuk, J.; Jędrzejewski, B.; Nieto, G. O.; Navarro, M. M.; Witt, D. "Diastereoselective synthesis of Z-alkenyl disulfides from $\alpha$ -thiophosphorylated ketones and thiosulfonates", Adv. Synth. Catal. 2020, 362, 618-626 | 140 | 2020 |
| 4. |   |     |      |
| 5. |   |     |      |

#### Most recent externally funded projects you were involved in – no more than 3

| No | Project title, the name of the Principal Investigator (PI) and the institution the project was carried out  | Years     | Role in the project <sup>iv</sup> |
|----|---|-----------|-----------------------------------|
| 1. | Development of a novel and versatile synthesis of functionalized unsymmetrical alkynyl sulfanes and their application for a first total synthesis of Ajoene. – funded by NCN OPUS 10 (2015/19/B/ST5/03359). Gdansk University of Technology, Faculty of Chemistry | 2016-2019 | PI                                |
| 2. | Derivatives of neopentylideneophosphorodithioic acid as starting materials for preparation of trisulfides – funded by NCN (N N204 208440). Gdansk University of Technology, Faculty of Chemistry  | 2011-2013 | PI                                |
| 3. | The synthesis of unsymmetrical disulfides based on the organophosphorus sulfenyl bromides - funded by NCN (N N204 451133). Gdansk University of Technology, Faculty of Chemistry  | 2008-2010 | PI                                |

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Additional relevant information (no more than 1600 characters)<sup>v</sup>



- <sup>i</sup> You may select up to two disciplines out of 12 disciplines represented in the Doctoral School
- <sup>ii</sup> Observe the limit of not more than 2000 characters
- <sup>iii</sup> Leave only one answer
- <sup>iv</sup> Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher
- <sup>v</sup> Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)