



INSTITUTE OF ORGANIC CHEMISTRY

POLISH ACADEMY OF SCIENCES

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Prof. Daniel T. Gryko – Curriculum Vitae

<i>Full name</i>	Daniel Tomasz Gryko
<i>Sex (male/female)</i>	male
<i>Date/Place of birth</i>	24 December 1970, Białystok
<i>Nationality</i>	Polish
<i>Present position</i>	Professor
<i>Profesional research field</i>	Organic functional dyes
<i>e-mail</i>	daniel@icho.edu.pl
<i>Permanent working place</i>	Institute of Organic Chemistry, Polish Academy of Sciences Kasprzaka 44/52, 01 – 224 Warsaw Ph.: +48 22 343 30 63, Mobile: +48 661959101 Fax: +48 22 632 66 81
<i>Home address</i>	ul. Zawiszy 16/72, 01-167 Warsaw, Poland

Education:

2003	Habilitation, 'Synthesis of meso-substituted corroles' Institute of Organic Chemistry, PAS
1997	Ph.D. with distinction 'The Synthesis of Chiral Diazacoronands from L-Tartaric Acid and D-Mannitol'
1994 - 1997	Ph.D. studies, Institute of Organic Chemistry, PAS
1994	M.Sc., 'The Enantioselective Synthesis of Alkaloid Kryptostyline II', Warsaw University, Chemistry Department
1989 - 1994	Warsaw University, Chemistry Department

Employment:

Since December 2009	Professorship at Faculty of Chemistry of Warsaw University of Technology
Since April 2004	Head of the research group at the Institute of Organic Chemistry, PAS
2000 - 2004	Habilitation at the Institute of Organic Chemistry, PAS

Longer visits abroad

- 1) **IX 1998-VI 2000:** post-doctoral scholarship in North Carolina State University, Raleigh, USA, with prof. Jonathan Lindsey
- 2) **IX 2003 and IX 2004:** two, two-weeks visits in the Hannover University with Prof. Holger Butenschön
- 3) **II-III 2005:** visiting professor at University of Burgundy, Dijon, France with Prof. Roger Guillard

- 4) **I-IV 2007:** visiting research scholar at University of Texas at Austin, Austin, USA with Prof. Jonathan Sessler
- 5) **VII-IX 2018:** sabbatical leave at UC Berkeley

Awards

1. The Sigma-Aldrich prize for the best Ph.D. thesis in chemistry in Poland in 1997
2. Award of the Prime Minister of the Polish Government for the best Ph.D. thesis in chemistry in 1997
3. Scholarship of the Foundation for Polish Science in 2001 and 2002
4. The prize of the Polish Academy of Sciences for Young Polish Chemist in 2002
5. Award of the Prime Minister of the Polish Government for the best habilitation in chemistry in 2003, 2004
6. Society of Porphyrins and Phthalocyanines Young Investigator Award, 2008
7. The prize of Ministry of Science and Higher Education for scientific accomplishment, 2012.
8. W. Świątosławski Award of Polish Chemical Society, 2013
9. Award 'MISTRZ' from Foundation for Polish Science, 2013
10. **Foundation for Polish Science Award, 2017 (the most prestigious scientific award in Poland)**
11. Maria Skłodowska-Curie Award from President of the Polish Academy of Sciences (2018)

Key scientific achievements

- **Methodology to synthesize gram quantities of *meso*-substituted-corroles in H₂O/MeOH/HCl system (2006).** The crucial idea is the use of H₂O/MeOH/HCl as medium for the first step (cascade of electrophilic aromatic substitutions leading to tetrapyrranes and other pyrrole-aldehyde oligocondensates). The yields of *meso*-substituted A₃-corroles have been improved by the factor of two and amount of problematic porphyrin side-product was reduced to below the detection limit. In the case of *trans*-A₂B-corroles yields have been improved ten-fold reaching 55%. This methodology immediately became popular among researchers around the world and it quickly dominated the field at least as long as aldehydes possessing reasonable molecular weight are concerned. There is no doubts that this synthetic developments significantly influenced the fate of corrole chemistry and increased their popularity as targets and tools in various areas of research. This research was definitely one of the major factors behind the 'renaissance' in corrole chemistry after 2000. *200 citations*
- **Liquid porphyrins (2009).** First world liquid porphyrins were designed and prepared. *Meso*-substituted A₄-porphyrins bearing 3,4,5-trialkoxyphenyl substituents bearing twelve C10 and C11 alkyl chains turned out to be liquid at room temperature.
- **π -Expanded diketopyrrolopyrroles (2011).** The never existing before, S-shaped heterocyclic core has been synthesized in my group in 2011. Compounds are red-emitters, with high fluorescence quantum yields, high molar absorption coefficient and large two-photon absorption cross-section. This discovery immediately caught attention of various companies. It resulted in a few following papers, three patent applications, research contract with BASF etc.
- **1,4-Dihydropyrrole[3,2-*b*]pyrroles (2012).** These compounds barely existed in the literature before the original paper was published and tetraaryl-compounds did not existed at all. We have discovered new multicomponent reaction leading directly from aromatic aldehydes, aromatic amines and biacetyl to these compounds in 30-50% yield, without the need for chromatographic purification. Their strong fluorescence both in solutions and in the solid state prerequisites them towards applications in organic light emitting diodes.
- **3,9-Dioxaperylene-2,8-diones (2014).** The synthesis of two novel types of π -expanded coumarins has been developed. Modified Knoevenagel bis-condensation afforded 3,9-dioxaperylene-2,8-diones. Subsequent oxidative aromatic coupling or light driven electrocyclization reaction led to dibenzo-1,7-dioxacoronene-2,8-dione.

- **[1,2-*b*:1',2'-*g*][2,6]Naphthyridine-5,11-diones (2015)**. These brand new cross-conjugated donor-acceptor system has been synthesized in 2015 by simple reaction of 1,4-di(1H-pyrrol-1-yl)butane-1,4-dione with aliphatic acids in the presence of trifluoroacetic anhydride. It is worth to note that the last previous discovery of cross-conjugated chromophore happened in 1976. This discovery resulted in manuscript submitted to top journal, international patent application and research contract with BASF.

Scientific Activity

He published ~300 papers [including *J. Am. Chem. Soc.* IF (2019) = 13.8, *Angew. Chem.* IF (2019) 11.5, *Nature Communications* IF (2019) = 14.0, *Proc. Nat. Acad. Sci. USA* IF (2019) = 9.7, *Org. Lett.* IF (2019) = 6.0, *Chem. Commun.* IF (2019) = 6.0]. Author of 18 review articles. Total number of citations excluding auto-citations ~7500 (~1000 citations in 2020). 13 papers cited more than 100 times. **H-factor = 52.**

International scientific cooperation

Most important previous collaborators:

1. Prof. Holger Butenschön (Hanover University, Germany) - synthesis and studying the properties of ferrocene-porphyrins.
2. Prof. Martin Bröring (Marburg University, Germany) - synthesis and properties of corroles possessing additional coordination center.
3. Prof. Francis D'Souza (Wichita State University, USA) - electron transfer in dyads constructed from corroles and fullerene.

Current collaborators:

1. Prof. Kyo Han Ahn (Pohang University of Science and Technology, Pohang, Korea) – fluorescent probes in detection of early stages of Alzheimer disease
2. Prof. Aleksander Rebane (Montana State University, Bozeman, USA) – two-photon absorption
3. Prof. Karl Kadish (University of Houston, USA) – electrochemistry of corroles
4. Prof. John Arnold (UC Berkeley, USA) – coordination chemistry of corroles
5. Prof. Dongho Kim (Yonsei University, Korea) – photophysics of functional dyes.
6. Prof. Harry Gray (CALTECH, Pasadena, USA) – electronic structure of corroles bearing CF₃ groups at *meso* positions.
7. Prof. Eric Vauthey (University of Geneva, Switzerland) - symmetry breaking in the excited state.
8. Prof. Valentine I. Vullev (UC Riverside, Riverside, USA) – molecular electrets.
9. Prof. Pi-Tai Chou (NTU, Taipei, Taiwan) – photophysics of corroles.
10. Prof. Dan Nocera (Harvard University, Cambridge, USA) – symmetry breaking in the excited state.

Invited lectures

At meetings and conferences:

1. 2nd Polish-German Workshop: *Chemistry of Natural Products Synthesis, Chirality, Diversity*, Hanover (Germany), 2002.
2. 4th Poland-Korea Joint Symposium on organic chemistry, Warsaw (Poland), 2002.
3. 203rd Meeting of *Electrochemical Society*, France (Paris), 2003.
4. 44th Meeting of *Polish Chemical Society*, Poland (Lublin), 2003.
5. *Docententagung*, Dortmund (Germany), 2004
6. 3rd Polish-German Workshop: *Chemistry of Natural Products Synthesis, Chirality, Diversity*, Rydzyna, Poland, 2004
7. 3rd International Conference on *Porphyryns and Phthalocyanines*, Nowy Orlean (USA), 2004

8. 7th Ogólnopolskie Sympozjum Chemii Organicznej, Warsaw, Poland, 2004
9. 5th Poland-Korea Joint Symposium on Organic Chemistry, Gimhe, South Korea, 2004
10. 4th International Conference on Porphyrins and Phthalocyanines, Rome (Italy), 2006
11. 3rd Symposium of Korean Society for Photodynamic Therapy, Seoul, Korea, 2006
12. 211th Meeting of Electrochemical Society, Chicago, USA, 2007
13. 5th International Conference on Porphyrins and Phthalocyanines, Moscow, Russia, 2008
14. 7th Poland-Korea Joint Symposium on Organic Chemistry, Chuncheon, South Korea, 2008
15. 215th Meeting of Electrochemical Society, San Francisco, USA, 2009
16. 6th International Conference on Porphyrins and Phthalocyanines, Santa Ana, USA, 2010
17. FLOHET 12, Gainesville (USA), 2011
18. 219th Meeting of Electrochemical Society, Montreal (Kanada), 2011
19. 14th International Symposium on Novel Aromatic Compounds, Eugene (USA), 2011
20. YoungChem2011 International Congress of Young Chemists, Kraków (Polska), 2011
21. 1st International Conference on Bioinspired Materials for Solar Energy Utilization (BIOSOL), Chania (Grecja), 2011, **plenary lecture**
22. 7th International Conference on Porphyrins and Phthalocyanines, Jeju, Korea, 2012
23. 3rd Molecular Sensors & Molecular Logic Gates, Seoul, Korea, 2012
24. 223th Meeting of Electrochemical Society, Montreal, Canada, 12-16.05.2013
25. 5th Georgian Bay International Conference on Bioinorganic Chemistry π -Extended porphyrins –synthesis and optical properties, Parry Sound, Canada, 21-25.05.2013
26. BIT's 2nd Annual World Congress of Advanced Materials-2013, Suzhou, Chiny, 2013
27. 7th International Conference on Materials for Advanced Technologies, 30.06-05.07.2013, Singapore.
28. 15th International Symposium on Novel Aromatic Compounds, 28.07.-02.08.2013, Taipei, Taiwan
29. 56th Polish Chemical Society Meeting, 16-20.09.2013, Siedlce, Poland
30. Responsive Matrices for Solar Fuels, Leiden, Netherlands, 28.10.-01.11.2013
31. 15th International Symposium on Novel Aromatic Compounds (ISNA-15), Taipei, Taiwan, 2013
32. 8th International Conference on Porphyrins and Phthalocyanines (ICPP-8), Istanbul, Turkey, 2014
33. BIT's 3rd Annual World Congress of Advanced Materials, Chongqing, China, 2014
34. 248th National ACS Meeting Division of Physical Chemistry, San Francisco, USA, 2014
35. From Carbon-Rich Molecules to Carbon-Based Materials, Casablanca, Morocco, 2014
36. Two Photon absorbers for BIOMedical applications, Bordeaux, France, 2014
37. Michinoku International Symposium on Porphyrins, Phthalocyanines and Functional π Molecules, Zao, Japonia, 2014
38. 9th Poland-Korea Conference on Organic Chemistry, Jeju, Korea, 2014
39. 16th International Symposium on Novel Aromatic Compounds (ISNA-15), Madrid, Spain, 2015
40. 12th International Symposium on Functional π -Electron Systems, Seattle, USA, 2015
41. Pacifchem 2015, Honolulu, USA, 2015
42. 9th International Conference on Materials for Advanced Technologies, Singapore, 2017
43. Blue Danube Symposium on Heterocyclic Chemistry, Linz, Austria, 2017, **plenary lecture**
44. 26th International Society on Heterocyclic Chemistry Congress, Regensburg, Germany, 2017
45. European Materials Research Society Fall Meeting 2017, Warsaw, Poland, 2017
46. 10th International Conference on Porphyrins and Phthalocyanines (ICPP-10), Monachium, Germany, 2018, **plenary lecture**
47. 2nd From Carbon-Rich Molecules to Carbon-Based Materials Conference, Nassau, Bahamas, 2018
48. German-Polish-Baltic Conference on Organic Chemistry, Hamburg, Germany, 2018
49. MRS Spring Meeting and Exhibit, Phoenix, USA, 2018
50. Aromaticity 2018 Meeting, Riviera Maya, Meksyk, 2018;
51. 11th Korea-Poland Joint Organic Chemistry Symposium, Pohang, Korea, 2018

52. 18th International Symposium on Novel Aromatic Compounds (ISNA-18), Sapporo, Japan, 2019

At universities:

1. Georg-August University of Göttingen, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
2. University of Paderborn, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003.
3. Friedrich-Alexander University of Erlangen-Nürnberg, Erlangen, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
4. University of Bremen, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
5. University of Hamburg, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
6. Bielefeld University, Bielefeld, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
7. Free University of Berlin, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
8. North Carolina State University, Raleigh, USA, '*Recent advances in the synthesis of meso-substituted corroles*', 07-2003
9. University of Connecticut, Storrs, USA, '*Recent advances in the synthesis of meso-substituted corroles*', 07-2003
10. Hannover University, Hanover, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 09-2003
11. Adam Mickiewicz University, Poznań, Poland, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2003
12. Johns Hopkins University, Baltimore, USA, '*Recent advances in the synthesis of meso-substituted corroles*', 07-2004
13. Braunschweig University of Technology, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2004
14. University of Cologne, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2004
15. University of Marburg, Germany, '*Recent advances in the synthesis of meso-substituted corroles*', 05-2004
16. University of Strasbourg, France, '*Recent advances in the synthesis of meso-substituted corroles*', 02-2005
17. Orsay University, Paris, France, '*Recent advances in the synthesis of meso-substituted corroles and meso-substituted chlorins*', 02-2005
18. The University of Bourgogne, Dijon, France, '*Recent advances in the synthesis of meso-substituted corroles and meso-substituted chlorins*', 02-2005
19. The University of Karlsruhe, Germany, '*Recent advances in the synthesis of meso-substituted corroles and meso-substituted chlorins*', 05-2005
20. The University of Rome Tor Vergata, Italy, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 05-2006
21. Montana State University, Bozeman, USA, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 06-2006
22. Korean Institute of Science and Technology (KIST), Seoul, Korea, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 08-2006
23. Woman's University, Seoul, Korea, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 08-2006
24. University of Nijmegen, Netherlands, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*', 05-2006

25. University of Houston, USA, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 02-2007
26. University of California in Berkeley, USA, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*' 04-2007
27. California Institute of Technology (CALTECH) in Pasadena, USA, '*Recent advances in the synthesis of meso-substituted chlorins and meso-substituted corroles*', 04-2007
28. Institute of Organic Synthesis and Photoreactivity of CNR in Bologna (Italy), '*Meso-substituted corroles and meso-substituted chlorins*' 08-2007
29. Trinity College in Dublin, Ireland, '*Snapshots on the synthesis of meso-substituted corroles*', 05-2008
30. Korean Advanced Institute of Science and Technology, Daejeon, Korea, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 08-2008
31. University of Crete, Heraklion, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 01-2009
32. University of California Riverside, USA, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 05-2009
33. Istanbul Technical University, Turkey, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 06-2009
34. Technical University of Yildiz, Turkey, '*Locked chlorins – the new approach*', 06-2009
35. University of North Texas, Denton, USA, '*Locked chlorins – the new approach*', 07-2009
36. University of Tromsø, Norway, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 10-2009
37. Kangwon National University, '*Adventures in the synthesis of meso-substituted porphyrins and corroles*', Korea, 02-2010
38. Korea University, Korea, '*Adventures in the synthesis of meso-substituted porphyrins and corroles*', 02-2010
39. Kyoto University, Japan, '*Synthesis of π -expanded porphyrins and corroles*', 02-2010
40. Tohoku University, Japan, '*Synthesis of π -expanded porphyrins and corroles*', 02-2010
41. Johns Hopkins University, Baltimore, USA, '*Synthesis of π -expanded porphyrins and corroles*', 07-2010
42. Linz University, Austria, '*Meso-substituted corroles – from synthesis to spectroscopy and photophysics*', 03-2011
43. Max-Planck Institute for Inorganic Chemistry, Germany, '*Meso-substituted corroles from synthesis to spectroscopy and photophysics*', 04-2011
44. University of Toronto, '*Direct arylation of pyrrole derivatives*', 05-2011
45. University of Sherbrooke, '*Meso-substituted corroles from synthesis to spectroscopy and photophysics*', 05-2011
46. Seoul National University, Korea Pld., '*10-Hydroxybenzo[*h*]quinoline derivatives and analogues – from synthesis to excited state intramolecular proton transfer*', 06-2011
47. Ehwa Women's University, Korea Pld., '*Novel π -expanded porphyrins – synthesis and optical properties*', 06-2011
48. Boston College, USA, '*New heterocyclic fluorescent platforms - excited state intramolecular proton transfer*', 07-2011
49. University of Marseille, France, '*Novel π -expanded porphyrins – synthesis and optical properties*', 12-2011
50. University of Copenhagen, '*The synthesis and photophysical properties of new heterocyclic chromophores*', 05-2012
51. BASF Schweiz, '*Bright, Color-Tunable Fluorescent Dyes Based on π -Expanded Diketopyrrolopyrrole*', 22-08-2012
52. University of Florence, '*The synthesis and photophysical properties of new heterocyclic chromophores*', 10-09-2012
53. University of South Denmark, '*Novel, two-photon absorbing heterocyclic functional dyes-synthesis and optical properties*', Odense, Denmark, 2013
54. Pohang Institute of Science and Technology, '*Novel, heterocyclic, emission-tunable functional dyes – two-photon absorption and ESIPT*', Pohang, Korea, 2013

55. Osaka University, 'Novel, heterocyclic, emission-tunable functional dyes – two-photon absorption and ESIPT', Osaka, Japan, 2013
56. Osaka City University, 'Meso-Substituted Corroles and π -expanded Porphyrins – from Synthesis to Photophysics', Osaka, Japan, 2013
57. Nanyang Technological University, 'Meso-Substituted Corroles and π -expanded Porphyrins – from Synthesis to Photophysics', Singapore, 2013
58. Taipei National University, 'Novel, heterocyclic functional dyes – two-photon absorption and ESIPT', Taipei, Taiwan, 2013
59. Tampere University of Technology, 'Novel, heterocyclic functional dyes – two-photon absorption and ESIPT', Tampere, Finland, 2013
60. Institute of Physics PAS, 'Liniowe i nieliniowe wlasciwosci optyczne nowych barwnikow funkcjonalnych', Warsaw, Poland, 2013
61. Pohang Institute of Technology, Pohang, Korea 2014
62. Idemitsu Kosan, Chiba, Japan, 2014
63. The University of Electro-communications, Tokyo, Japan 2014
64. National University of Singapore, Singapore, 2014
65. Yonsei University, Seoul, Korea 11.2014
66. Oxford University, Oxford, UK, 2014
67. Tokyo University of Electro-Communications, 05-2015
68. Nagoya University, Nagoya, Japan, 05-2015
69. Kyushu University, Fukuoka, Japan, 05-2015
70. Friedrich-Alexander University of Erlangen-Nürnberg, Erlangen, Germany, 05-2015
71. University of Oregon, Eugene, USA, 07-2015
72. Kyushu University, Fukuoka, Japan, 07-2016
73. Kyoto University, Kyoto, Japan, 07-2016
74. University of Copenhagen, Denmark, 04-2017
75. Harvard University, USA, 08-2017
76. North Carolina State University, USA, 08-2017
77. EMPA, St. Gallen, Switzerland, 10-2017
78. California Institute of Technology, USA, 11-2017
79. College of Chemistry, UC Berkeley, USA, 07-2018
80. University of Nevada Reno, USA, 09-2018
81. Lawrence Berkeley National Lab, Berkeley, USA, 09-2018
82. US Air Force Laboratory, Dayton, USA, 09-2018
83. Massachusetts Institute of Technology (MIT), Boston, USA, 09-2018
84. Johns Hopkins University, Baltimore, USA, 09-2018
85. Heliatek GmbH., Dresden, Germany, 05-2019

Service

Work in the organizing committees:

1. *Summer School of Supramolecular Chemistry* - local organizing committee, Ustroń, 1996.
2. *10th International Symposium on Molecular Inclusion and Recognition* - local organizing committee, Warsaw, 1998
3. *7th Polish Symposium of Organic Chemistry* - organizing committee, 2004.
4. Organizer of the symposium 'Synthesis and properties of corroles and other ring-contracted systems' as a part of *3rd International Conference on Porphyrins and Phthalocyanines*, Nowy Orlean (USA), 2004.
5. Organizer of the symposium 'Synthesis and properties of corroles and other ring-contracted systems' as a part of *4th International Conference on Porphyrins and Phthalocyanines*, Rome (Italy) – 2006.
6. Main organizer of the conference '*(R)Evolution in Catalysis*', Warsaw (Poland) – 2010.

Work as a referee:

1. J. Org. Chem.
2. Angew. Chem.
3. Org. Lett.
4. J. Am. Chem. Soc.
5. Chem. Eur. J. etc.

Society memberships

1. Member of American Chemical Society since 1999.
2. Funding member of Society of Porphyrins and Phthalocyanines (since 2000).
3. Member of Polish Chemical Society.

Students previously and currently advised

Former and present master students:

1. Katarzyna Piechota (nee Jadach) – 2002
2. Mariusz Tasior – 2003
3. Dagmara Wyrostek – 2007
4. Maciej Rogacki – 2008
5. Kamil Skonieczny
6. Wioleta Borzęcka

Former Ph.D. - students:

1. Ph.D. Beata Koszarna – 2006
2. Ph.D. Mariusz Tasior – 2008
3. Ph.D. Michał Gałęzowski – 2008
4. Ph.D. Olena Vakuliuk - 2011
5. Ph.D. Joanna Piechowska - 2011
6. Ph.D. Roman Voloshchuk - 2012
7. Ph. D. Jan Lewtak - 2012
8. Ph.D. Agnieszka Nowak-Król - 2013
9. Ph.D. Jan Klajn – 2013
10. Ph.D. Anita Janiga - 2014
11. Ph.D. Marek Grzybowski - 2014
12. Ph.D. Dikhi Firmansyah -2015
13. Ph.D. Rashid Nazir - 2015

14. Ph.D. Anton Stasiuk – 2015
15. Ph.D. Maciej Krzeszewski
16. Ph.D. Anna Purc
17. Ph.D. Kamil Skonieczny
18. Ph.D. Marek Węclawski
19. Ph.D. Rafał Stężycki
20. Ph.D. Bartłomiej Sadowski
21. Ph.D. Łukasz Kielesiński

Current Ph.D. - students:

1. M.S. Dinesh Kumar
2. M.S. Katerina Vygranenko
3. M.S. Rafał Orłowski
4. M.S. Łukasz Łukasiewicz
5. M.S. Krzysztof Gutkowski
6. M.S. Gana Sanil
7. M.S. Jaqueline Badaro

Research grants

- Grant from Polish Ministry of Scientific Research and Higher Education 4 T09A 00 521 entitled, 'The synthesis of meso-substituted corroles and meso-substituted chlorins', 2001-2004
- Grant from Volkswagen Foundation (2002-2006) entitled, 'The synthesis of core-metallocene-modified porphyrins' with Prof. Holger Butenschön, Hannover University, Germany
- Grant from Polish Ministry of Scientific Research and Higher Education and DAAD (German Founding Agency) (with prof. M. Bröringiem from Marburg, Germany) , 2004-2005
- Grant from Polish Ministry of Scientific Research and Higher Education 4 T09A 00 521 entitled, 'The synthesis of stable chlorins and bacteriochlorins for energy/electron transfer studies', (2006-2008).

- European Grant: Marie Curie Research Training Network, REVCAT, '*Revolutionary catalysts*', 2006-2010.
- Grant from US Air Force (EOARD) '*Liquid porphyrins as optical limiters*', 2007-2008
- Grant 'TEAM' from Foundation for Polish Science '*Novel chromophores for two-photon excitation fluorescence microscopy and optical limiting*', 2010-2014
- European Grant: Marie Curie Initial Training Network, '*Two-photon absorbers for biomedical applications*' (TOPBIO), 2010-2014
- EuroSolarFuels Grant: '*Modular Design of a Bio-Inspired Tandem Cell for Direct Solar-to-Fuel Conversion*', 2011-2014
- International Grant - OLAЕ+, '*Inexpensive photovoltaic cells*', 2013-2015.
- Grant Maestro (National Science Centre). '*New, effective methods for the synthesis of aromatic heterocycles via selective oxidative coupling*', 2013-2018.
- Grant Ministerstwa Nauki i Szkolnictwa Wyższego - Diamentowy Grant DI2012 000742 pt. „Fluorescencyjne analogi kumaryn o π -rozszerzonym chromoforze” (2013-2016).
- Grant National Science Centre (Poland) – Preludium 5, „Synthesis of heterocyclic analogs of polycyclic aromatic hydrocarbons *via* formal oxidative coupling” (2014-2016)
- Grant from Polish Ministry of Science and Higher Education - Diamond Grant DI2013 003643 pt. „ π -Expanded porphyrins *via* oxidative aromatic coupling of *meso*-(aryloamino)porphyrins – synthesis and photophysical properties” (2014-2017).
- Foreign partner in “Global Research Lab” financed by Korean National Research Foundation with prof. Kyo Han Ahn “Development of Two-photon Fluorescence Probes for Disease Diagnosis and Imaging” – (11.2014-10.2020)
- Grant from National Science Centre (Poland) – HARMONIA, „Synthesis, self-assembly and long-range electron transfer in amide-functionalized self-assembled corroles” (2016-2019)
- Grant *TEAM* from Foundation for Polish Science ‘New generation of fluorescent probes for stimulated emission depletion microscopy’ (2017-2020)