Péter Nagy

Curriculum Vitae as of July 1, 2019

Contact

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Positions Held

2017-	Scientific Director at the National Institute of Oncology, Hungary
2013-	Director of International Relations at the National Institute of Oncology, Hungary
2011-	Head of the Department of Molecular Immunology and Toxicology at the National Institute of Oncology, Hungary
2019-	Honorary Professor at Debrecen University, Hungary
2018-	Visiting Professor at Semmelweis University, Hungary
2015-	Honorary Associate Professor at Debrecen University, Hungary
2015-	Honorary Senior Research Fellow at the University of Otago, Christchurch, Department of Pathology, Free Radical Research Group, New Zealand
2011-2014	Honorary Research Fellow at the University of Otago, Christchurch, Department of Pathology, Free Radical Research Group, New Zealand
2012- 2013	Deputy Director of International Relations at the National Institute of Oncology, Hungary
2010- 2011	Research Fellow at the University of Otago, Christchurch, Department of Pathology, Free Radical Research Group, New Zealand
2010	Invited Visiting Research Fellow at the University of Washington, Department of Medicine Division of Metabolism, Endocrinology and Nutrition, Seattle, USA
2008 - 2009	Visiting Research Fellow at the Swiss Federal Institute of Technology (ETH), Department of Chemistry, Zurich, Switzerland
2007 - 2009	Postdoctoral Fellow at the University of Otago, Christchurch, Department of Pathology, Free Radical Research Group, New Zealand
2004 - 2007	Postdoctoral Fellow at the University of Oklahoma, Department of Chemistry and Biochemistry, USA

Academic Achievements

2017	Doctor of Science of the Hungarian Academy of Sciences
2012	Habilitation at Debrecen University
2004 June	Ph.D. graduation at The Royal Institute of Technology (KTH), Stockholm, Sweden
2004 April	Ph.D. graduation at Debrecen University (DU), Debrecen, Hungary
2003	Certificate in Environmental Monitoring (TUV Akademie, Germany)
2000	Master of Science in Chemistry, Debrecen University

Roles in International Organizations

2019-	Hungarian delegate in the Scientific Council of WHO's International Agency for Research on Cancer (IARC)
2016-	Accreditation and Designation Board member of the Organization of European Cancer Institutes (OECI)
2019-	EURACAN Steering Comittee member
2018-	WP5 workpackage Leader in the 'Innovative Partnership for Action Against Cancer — iPAAC'
2017-	WP T3 Leader in the 'UsIng guidelines and beNchmarking to Trigger social entrepreneurship solutions towards better patient-centred cancer care in cENTral Europe — INTENT' project
2017-	Institutional coordinator in the 'CHRODIS-PLUS: Implementing good practices for chronic diseases — *CHRODIS-PLUS'* project
2016-	Institutional coordinator in the Joint Actions on Rare Cancers
2016-	Institutional contact person in the European Reference Network Scheme for Rare Diseases.
2015-	Accreditation Auditor for OECI
2013-2016	WP5 Leader (Benchmark tools piloting) in the BenchCan project (Benchmarking Comprehensive Cancer Care and Cancer Care Pathways in Europe)
2012-2016	Coordinator in the EurocanPlatform project (Structuring Translational Cancer Research in Europe)
2012-	Participant and coordinator in the Transcan project (ERA-NET research grant mechanism for translational cancer research)

Honors

Member in Editorial Boards

2019-	*Member of the Editorial Board:* Journal of Biological Chemistry
2016-	*Review Editor:* British Journal of Pharmacology
2017-	*Editor:* Onkológia & Hematológia
2011-	*Member of the Associate Editorial Board:* International Journal of Biochemistry and Molecular Biology

Current Grant Supports

2019-	Thematic Excellence Program Consortial Research Program entitled "Innovations in Breast Cancer Care" Role: Principal Investigator
2019-2020	JSPS International Fellowships for Research in Japan To invite overseas researchers with excellent records for research achievements to collaborate with Japanese colleagues in carrying out research through long-term visits
2018-2022	National Research, Development and Innovation Fund Researcher Initiated Research Project Grant Role: Principal Investigator
2017-2019	National Research, Development and Innovation Fund Grant for Research Teams with Significant Achievements of Internationally Outstanding Impact Role: Principal Investigator
2016-2018	NIH R21 Role: Co- Investigator
2013-2017	Hungarian National Science Foundation Researcher Initiated Research Project Grant Role: Principal Investigator

2018- 2021 ’Innovative Partnership for Action Against Cancer — iPAAC’
Role: Institutional coordinator

2017-2022 ERN EURACAN
Role: Steering Comittee member

2017-2020 ’CHRODIS-PLUS: Implementing good practices for chronis diseases — *CHRODIS-PLUS’*
Role: Institutional coordinator

2017- 2020 ’UsIng guidelines and beNchmarking to Trigger social entrepreneurship solutions towards better patient-centred cancer care in cENTral Europe — INTENT’ project
Role: Institutional coordinator

2016-2019 Joint Actions on Rare Cancers — JARC
Role: Institutional coordinator

Important Invited or Contributed Lectures

2020 Mechanistic investigations for metabolic pathways of Reactive Sulfur Species
Invited speaker at the Gordon Research Conference on Oxygen Radicals, Ventura, California, USA

2019 *Invited speaker at the 1st International Conference on Persulfide and Sulfur Metabolism in Biology and Medicine, Sendai, Japan*

2019 Control of Protein Function Through Oxidation and Reduction of Persulfidated States
Invited speaker at the Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan

2019 Redox-tumorbiology; an emerging field in cancer research
Speaker at the Regional Conference on Partnership and Cooperation in Oncology, Budapest, Hungary

2018 Speciation of reactive sulfur species: Do we have any clue about what’s inside the cell?
Invited Speaker at the 4th meeting of the study group for redox biology of the German Society for Molecular Biology and Biochemistry, Berlin, Germany

2018 Speciation of reactive sulfur species: do we have any clue about what’s inside the cell?
Invited speaker at the Thiol-Based Redox Regulation and Signaling (Gordon Research Conference), Spain

2018 Reactive sulfur species: mechanistic considerations for their regulatory functions in redox biology
Invited Speaker and session chair/organizer of the Redox Biology section at the 2018 FEBS conference, Prague, Czech Republic

2018 Dynamic redox cycling of hydrogen sulfide and polysulfide species could represent an important regulatory element in sulfur biology
Invited Speaker and session chair/organizer at the 2018 SFRRI, Lisboa, Portugal

2018 Speciation of reactive sulfur species: do we have any clue about what’s inside the cell?
Invited Speaker and member of the scientific advisory board at the 5th World Congress on Hydrogen Sulfide in Biology and Medicine, Toronto, Canada

2017 Dynamic redox cycling of hydrogen sulfide and polysulfide species could represent an important regulatory element in sulfur biology
Invited Speaker organizer of the Plant and Human Sulfur Biology Conference 2017, Balatonfüred, Hungary

2017 Roles of the thioredoxin and glutathione systems in reduction of inorganic- and Cys-polysulfide spec
Invited Speaker at the SE2017: The 11th Intenational Symposium on Selenium in Biology and Medicine and The 5th International Conference on Selenium in the inveronment and Human health, Stockholm, Sweden

2017 Hydrogen Sulfide Signaling
Invited Lecture at the Redox regulation, oxidative stress and selenoproteins - Summer Graduate Course, Karolinksa Instiutet, Stockholm, Sweden

2017 Molecular models of hydrogen sulfide-mediated protection against oxidative stress
Invited Speaker at 90th Annual Meeting of Japanese Society for Bacteriology, Sendai, Japan

2016 Some aspects of sulfur biology from a mechanistic chemist's perspective
Invited Seminar at the Center for Molecular Medicine Cologne University Koeln, Germany

2016 Chemical aspects of sulfane sulfur biology
Invited Speaker at the Tohoku University Graduate School of Medicine, Sendai, Japan

2016 Advances and challenges in the field of H2S biology
Invited Speaker at the Dojindo Inc. HQs in Kumamoto, Japan

2016 Bio-chemical aspects of thiol oxidation
Invited Seminar Kyoto University, Kyoto, Japan

2016 Molecular pathways in persulfide biology
Invited Speaker at the 9th International Conference on the Biology, Chemistry, and Therapeutic Applications of Nitric Oxide held jointly with the 16th Annual Scientific Meeting of the Nitric Oxide Society of Japan, Sendai, Japan

2016 Hydrogen sulfide, the new kid on the block in redox signaling
Invited Speaker at the Society for Free Radical Research-Europe, Budapest, Hungary

2016 Insights into the molecular pathways of persulfide-mediated redox signaling
Invited Speaker at the 4th International Conference on the Biology of Hydrogen Sulfide, Napoli,Italy

2015 Protein persulfides: Insights into the molecular mechanisms of H_2S signaling
Invited plenary lecture at the Joint Meeting of the Societies for Free Radical Research Australasia and Japan, Christchurch, New- Zealand

2015 Mechanistic chemical perspective of thiol redox biology
Invited Speaker at the Thiol-based redox switches in life sciences ESF-EMBO conference, Sant Feliu de Guixols, Spain

2015 Superoxide-mediated post-translational modification of tyrosine resideues
Invited Speaker at the Society for Free Radical Research- Europe meeting Stuttgart, Germany

2015 Hydrogen sulfide and redox signaling
Invited Speaker at the "Redox Regulation, Oxidative Stress, and Selenoproteins." Medical University of South Carolina in Charleston, S.C.

2015 Mechanistic Chemical Perspective of Hydrogen Sulfide Signaling
Invited Speaker at the 3rd European Conference on the Biology of Hydrogen Sulfid, Athens, Greece

2015 Mechanistic Chemical Perspective of Hydrogen Sulfide Signaling
Invited Speaker at the „RISE Enhancing Biomedical Sciences and Biomedical Engineering in Science and Technology"Mayagüez, Puerto Rico

2015 Redox biochemistry of thiol proteins and hydrogen sulfide
Invited Seminar LSU Health Shreveport, USA,

2014 Mechanistic consideration of sulfide- versus polysulfide-mediated signaling events from a chemist's perspective
Invited Speaker at the Third International Conference on the Biology of Hydrogen Sulfide and COST meeting, Kyoto, Japan

2014 Tools and techniques for gasotrasmitters detection; working with gasotransmitters
Chemical aspects of gasotransmitter signaling
Invited Trainer at the Training School on Gasotransmitters Biology and Chemistry, Capri, Italy

2014 Kinetics and mechanisms of thiol redox reactions in relation to their biological functions
Invited Talk at the Redox Biology Seminars, Heidelberg DKFZ, Germany

2013 Redox Proteomics at the National Institute of Oncology;
Molecular mechanisms of BRAF V600E inhibition and acquired resistance to inhibitors of the MAPK pathway in melanoma malignum. Potential roles of Redox Regulation.
2 Invited lecture at the Hungarian Oncologists' Society's Annual Scientific Chemotherapy Congress

2013 Kinetics and mechanisms of thiol oxidation in biological systems
Lecture at the Debrecen Colloquium on Inorganic Reaction Mechanisms 2013 Conference, Debrecen, Hungary

2013 Scavenging of doxorubicin-induced peroxide species by peroxiredoxin 2 in red blood cells
Lecture at the Eu-ROS COST meeting, Budapest, Hungary

2013 Chemical aspects of hydrogen sulfide measurements in physiological samples
Invited lecture at the European Network on Gasotransmitters COST meeting, Athens, Greece

2012 Kinetics and Mechanisms of Thiol Oxidation in Biological Systems
Invited plenary lecture at the Natural Products and Related Redox Catalysts: Basic Research and Application in Medicine and Agriculture, Aveiro, Portugal

2012 Some Redox- and Coordination-Chemical Properties of Hydrogen Sulfide in Relation to its Biological Activities
Invited lecture at the European Network on Gasotransmitters COST meeting, Budapest, Hungary

2012 Redox Chemical Studies of Biological Thiols
Invited seminar at Saarbrucken Univesrity, Saarbrucken, Germany

2012 Interactions of Hydrogen Sulfide with Neutrophil-Derived Oxidants
Invited lecture at the First EU Conference on the Biology of Hydrogen Sulfide, Smolnice, Slovak Republic

2012 Reactive Oxygen Species in Cancer Research
Invited lecture at the Hungarian Oncologists' Society's Annual Scientific Chemotherapy Congress

2011 Novel Mechanisms for Superoxide Toxicity
Invited seminar at Debrecen University, Department of Inorganic and Analytical Chemistry Debrecen

2010 Mechanistic Investigation of the High Reactivity and Specificity of Peroxiredoxins with Peroxides *Invited speaker at the 19th Annual Meeting of the Society for Free Radical Research Australasia, Akaroa, New Zealand*

2010 Chemical Aspects of Thiol Oxidation in Biology
Invited seminar at the Puget Sound Blood Center, Seattle, WA, USA

2010 The Jekyll and Hide Roles of Superoxide in vivo: Mechanistic Investigation of Superoxide Mediated Tyrosine Modifications on Peptides and Proteins
Invited seminar at the University of Washington, Department of Medicine, Seattle, WA, USA

2010 Addition of superoxide to tyrosyl radicals in peptides and proteins; a potential route for superoxide toxicity
Selected speaker at the Oxygen Radicals Gordon Research Conference, Ventura, CA, USA

2009 Rapid reaction of superoxide with insulin-tyrosyl radical results in hydroperoxide formation, a kinetic study.
Selected speaker at the 5th Joint Meeting of the Society for Free Radical Research (Australia and Japan) with Mutagenesis and Experimental Pathology Society of Australia, Sydney, Australia

2009 Neutrophil mediated oxidation of opioid peptides
Invited speaker at the Brain Health & Repair Research Centre Conference, Dunedin, New Zealand

2009 Mechanisms of thiol oxidation in biology. A chemist's perspective
Invited seminar at the University of Otago, Dunedin, Department of Chemistry, New Zealand

2009 Redox chemistry of neutrophil-derived oxidants
Invited seminar at the University of Otago, Dunedin, Department of Chemistry, New Zealand

2009 Superoxide mediated radical reactions of opioid peptides and proteins
Invited seminar at the University of Otago, Dunedin, Department of Chemistry, New Zealand

2008 Radical targets for superoxide toxicity
Invited seminar at The Swiss Federal Institute of Technology (ETH), Department of Chemistry, Zurich

2007 Neutrophils, our in vivo cleaning staff, use chlorine bleach to disinfect
Invited seminar at Debrecen University, Department of Inorganic and Analytical Chemistry Debrecen

2007 Thiocyanate is an Efficient Endogenous Scavenger of the Putative Eosinophilic Killing Agent Hypobromous Acid
Invited speaker at the 5th International Meeting on Human Peroxidases, Akaroa, New Zealand

2005 Reactive Sulfur Species: Kinetics and Mechanisms of the Oxidation of Cystine Derivatives by Hypochlorous Acid
Invited speaker at the 57th Southeast/61st Southwest Joint Regional Meeting of the American Chemical Society, Memphis, Tennessee, USA

Invited representative at EU Science Policy and Consortial meetings

2019 Member of the Hungarian Ministerial Delegation at the 61st Session of the IARC Governing Council meeting, Lyon, France

2019 Invited delegate to meet the top management of MD Anderson Cancer Center and the Hungarian Consulate in Houston in order to lay the foundations for a bilateral scientific cooperation between the MD Anderson Cancer Center and the National Institute of Oncology

2019 Participant at the JBC Editorial Board meeting, Orlando, Florida, USA

2019 Participant at the INTENT meeting, Budapest, Hungary

2019 Participant at the EURACAN meeting, Paris, France

2018 Ministerial Delegate at the conference on "A mission-oriented approach to cancer in Europe: Boosting the social impact of innovative cancer research", the Vatican

2018 Ministerial Delegate at the 2nd Gago Conference on European Science Policy, Vienna, Austria

2018 Participant at the OECI Oncology Days, Poznan, Poland

2018 Representative of the Hungarian Oncologist Society at the EACR25, Amsterdam, Netherlands
2018 OECI auditor- Institut Curie, Paris, France
2018 Invited round table at the 1st Gago Conference on European Science Policy, Porto, Portugal
2018 Participant at the INTENT Steering Committee meeting, Aviano, Italy
2017 Ministerial Delegate at the Personalized Medicine in Cancer meeting, Brussels, Belgium
2017 Participant at the British Journal of Pharmacology annual editorial board meeting, London, England
2017 Participant at the JARC project General Assembly meeting, Milano, Italy
2017 Invited participant at the OECI Oncology Days, Brno, Czech Republic,
2017 Participant at the Euracan European Reference Network (ERN) project kick-off meeting, Lyon, France
2017 Delegate at 7th the Annual Oncology at the Limits, London, England
2016 Participant at the British Journal of Pharmacology annual editorial board meeting, London, England
2016 OECI auditor- Oslo University Hospital The Norwegian Radiumhospital, Oslo, Norway
2016 Invited speaker at closing conference of the BenchCan project, Brussels, Belgium
2016 Participant at the OECI Oncology Days, Brussels, Belgium
2016 Participant at the OECI Accreditation & Designation meeting and OECI Accreditation Auditors meeting, Cambridge, England
2016 Participant at the ERN project meeting, Brussels, Belgium
2016 BenchCan discussion at the Institute for Cancer Research and Cancer Center, Oslo, Norway
2016 Delegate at 6th the Annual Oncology at the Limits conference, London, England
2015 Participant at the Health Infoday on Joint Actions, Luxembourg, Grand Duchy of Luxembourg
2015 Participant at the 5th annual EurocanPlatform meeting, Brussels, Belgium
2015 Invited participant at the 2nd conference on ERNs, Lisbon, Portugal
2015 Invited participant at the OECI General Assembly, Porto, Portugal
2015 Participant at the EurocanPlatform meeting, Stockholm, Sweden
2015 BenchCan Projekt- Pilot site meeting, Amsterdam, Netherlands
2015 Delegate at the Oncology ath the Limits conference, Amsterdam, Netherlands
2014 BenchCan Projekt- 4th Core Group meeting, Brussels, Belgium
2014 BenchCan Projekt- Pilot site visit, Porto, Portugal
2014 European collaboration in oxidative stress and redox biology- MC/WG meeting, Padova, Italy
2014 Participant at the 4th annual EurocanPlatform meeting, Algavre, Portugal
2014 Participant at the BenchCan pilot workshop meeting, Amsterdam, Netherlands
2014 Participant at the 23rd Biennial EACR Congress and invited delegate at the EACR council meeting, München, Germany
2014 Participant at the OECI Oncology Days, Cluj-Napoca, Romania
2014 Participant at the BenchCan meeting, Brussels, Belgium
2014 Participant at the COST 3rd Working Group Meeting, Messina, Italy
2014 Participant at the EurocanPlatform meeting, Amsterdam, Netherlands
2013 2nd Core Group Meeting of the BenchCan Project, OECI BenchCan meeting, Amsterdam, Netherlands
2013 Participant at the COST Gasotransmitters meeting Exeter, England
2013 Participant at the 3rd annual EurocanPlatform meeting, Barcelona, Spain
2013 Participant at the 2nd COST Gasotransmitters meeting, Smolenice, Slovakia
2013 Participant at the Healtcare World Research and Innovation Congress, Brussels, Belgium
2013 Invited speaker at the WG3 COST Gasotransmitters meeting Athen, Greece
2013 Participant at the OECI Oncology Days, Brussels, Belgium
2012 Participant at the EurocanPlatform WP3 meeting, Oslo, Norway
2012 Participant at the 2nd annual meeting of EurocanPlatform, Amsterdam, Netherlands
2012 Participant at the COST Gasotransmitters meeting, Budapest, Hungary
2012 Participant at the ESMO 2012 Congress, Vienna, Austria
2012 Participant at the EPAAC Research Forum, Brussels, Belgium
2012 Participant at the „European Forum on Oncology" conference, Berlin, Germany
2011 Participant at the EurocanPlatform WP3 meeting, Stockholm, Sweden

Awards

2019	Bolyai Plakett (Recognition of the Hungarian Academy of Sciences for the best scientific achievement among János Bolyai Research Scholars)
2011	ESF-EMBO Young Investigator Travel Award to the "Glutathione and Related Thiols in Living Cells ESF-EMBO symposium".
2006	Young Investigator Travel Award to the "5th International Meeting on Human Peroxidases"
2001	Knut and Alice Wallenberg's Foundation Award
1999	Second place at the XXIV. National Science Competition for Undergraduate Students, Hungary
1993	Finalist of the National Chemistry Competition for high school students, Hungary

Scholarships

2019-2020	JSPS International Fellowship for Research in Japan To invite overseas researchers with excellent records for research achievements to collaborate with Japanese colleagues in carrying out research through long-term visits.
2015	János Bolyai Research Scholar of the Hungarian Academy of Sciences
2011-2015	Marie Curie International Reintegration Grant Fellow
2003	Ph.D. scholarship at The Royal Institute of Technology (KTH), Stockholm, Sweden
2001	Exchange Ph.D. student at KTH for 1 semester (Socrates Erasmus scholarship)
1999 - 2000	Exchange undergraduate student at KTH for 2 semesters (Socrates Erasmus scholarship)
1998	Exchange undergraduate student at KTH for 1 semester (Grant for talented young scientists, sponsored by Schering Plough pharmaceutical company)

Foreign Languages

Hungarian:	Native language
English:	Fluent, language of professional activities
Swedish:	Conversational level (Elementary and Advanced Beginners courses and certificates at KTH)
German:	Conversational level (Elementary course and certificate at DU)

Organizational, Advisory or Chair Roles at Meetings

2020	Discussion leader at the Gordon Research Conference on Thiol-Based Redox Regulation & Signaling
2020	Organizer at the 6th World Congress on Hydrogen Sulfide in Biology and Medicine
2019	Co-organizer at the 1st International Conference on Persulfide and Sulfur Metabolism in Biology and Medicine
2019	Session chair and organizer at the FAMÉ, Budapest
2018	Session chair Nitric Oxide Society meeting dedicated to the 20th anniversary of the 1998 Nobel Prize in Medicine for the discovery of NO as a signaling molecule, Oxford, England
2018	Chair and organizer of the Redox Biology section at the 2018 FEBS conference
2018	Session chair/organizer at the 2018 SFRRI, Lisboa, Portugal
2018	Member of the International Advisory Board at the 5th World Congress on Hydrogen Sulfide in Biology and Medicine
2017	Member of the Scientific Advisory Board and local organizer at the Plant and Human Sulfur Biology Conference
2017	Co-Chair and organizer of the „Kékgolyó napok" seminar series
2016	Member of the International Scientific Committee of the 9th International Conference on the Biology, Chemistry, and Therapeutic Applications of Nitric Oxide held jointly with the 16th Annual Scientific Meeting of the Nitric Oxide Society of Japan
2016	Member of the International Advisory Board at the 4th International Conference on the Biology of Hydrogen Sulfide
2016	Member of the International Scientific Committee of the Society for Free Radical Research-Europe

2015	Member of the Scientific Organizing Committee of the XXXI. National Meeting of Hungarian Oncologists
2013	2nd European Conference on the Biology of Hydrogen Sulfide, Chair and advisor of the ”Cancer and Therapeutic potential of H_2S manipulation” section

Society Memberships

2020-	IARC Scientific Council member
2018-	European Society for Medical Oncology
2017-	European Association for Cancer Research- Hungarian Representative
2017-	Society of Hungarian Oncologists' Secretary-General
2012 -	European Network on Gasotransmitters BM-1005 COST Management committee
2013 -	EU-ROS BM-1203 COST Management committee substitute
2012-	Society of Hungarian Young Oncologists
2011-	Society of Hungarian Oncologists'
2008 -	Society for Free Radical Biology and Medicine, USA
2007 -	Society for Free Radical Research, Australia
2007 - 2008	Society for Biochemistry and Molecular Biology, New Zealand
2006 - 2007	American Association for the Advancement of Science
2005 -	American Chemical Society
2001 -	Alumni for Europe

Research Output

Research Interests

Research in my Laboratory

The major area of my scientific interest is centered on reprograming of metabolic and cellular signaling pathways in cancer. The major focus of our research activities lies within redox regulation of protein functions, antioxidant defense mechanisms and alterations of transulfuration pathways. These processes play major roles in oncogenesis, tumor progression, immune-response/suppression and in the development of resistance to current therapies. Therefore, better understanding the underlying fundamental mechanistic reasons for the observed alterations in these processes in cancer vs normal vs immune cells will likely lead to novel and more effective therapeutic interventions.

Activities in EU Research Consortia

I represent the National Institute of Oncology as the coordinator in a number of EU projects (see above). Our wide scale research activities are dedicated to improving cancer care in a patient centered pan-European manner.

Publications

*Corresponding author

Book Chapters

6. Dorottya Garai, Zoltán Pálinkás, József Balla, Anthony J. Kettle, **Péter Nagy***
   Measurements for sulfide-mediated inhibition of myeloperoxidase activity
   In: Bełtowski J. (eds) Vascular Effects of Hydrogen Sulfide. **Methods in Molecular Biology**, vol 2007. Humana, New York, NY (2019) 179-203.

5. Éva Dóka, Elias S. J. Arnér, Edward E. Schmidt, **Péter Nagy***.
   ProPerDP, a Protein Persulfide Detection Protocol
   In: Bełtowski J. (eds) Vascular Effects of Hydrogen Sulfide. **Methods in Molecular Biology**, vol 2007. Humana, New York, NY (2019) 51-77.

4. Christopher Kevil, Miriam M. Cortese-Krott, **Péter Nagy**, Martin Feelisch, Csaba Szabo
Cooperative interactions between NO and H2S: chemistry, biology, physiology, pathophysiology
Nitric Oxide Biology and Pathobiology 3rd Edition Ignarro L.J., Ed. Elsevier: (2017) 57-83 Invited chapter.

3. **Péter Nagy***
Mechanistic Chemical Perspective of Hydrogen Sulfide Signaling
Methods in Enzymology, Hydrogen Sulfide in Redox Biology Part A & B (2015) 554, 3-29. Invited chapter. PubMed Link

2. **Péter Nagy*** and Christine C. Winterbourn
Redox chemistry of biological thiols
Advances in Molecular Toxicology, Fishbein, J.C., Ed. Elsevier: Amsterdam, The Netherlands, (2010), Vol. 4, pp. 183-222. Invited review.

1. **Péter Nagy**; Julie D. Becker; Rachael C. Mallo and Michael T. Ashby
The Jekyll and Hyde Roles of Cyesteine Derivatives During Oxidative Stress
New Biocides Development: The Combined Approach of Chemistry and Microbiology, Zhu, P., Ed. ACS Press: Washington, D.C., (2007), pp. 193-212.

Peer Reviewed Research Articles

61. Tamás Ditrói, Attila Nagy, Diego Martinelli, András Rosta, Viktor Kožich, **Péter Nagy***
Comprehensive analysis of how experimental parameters affect H_2S measurements by the monobromobimane method
Free Radical Biology and Medicine (2019) *136,* 146-158. PubMed Link

60. John L. Wallace, **Péter Nagy**, Troy D. Feener, Thibault Allain, Tamás Ditrói, David J. Vaughan, Marcelo N. Muscara, Gilberto de Nucci & Andre G. Buret
A Proof-of-Concept, Phase 2 Clinical Trial of the Gastrointestinal Safety of a Hydrogen Sulfide-Releasing Anti-Inflammatory Drug
British Journal of Pharmacology (2019) Epub ahead of print PubMed Link

59. Katalin Éva Sikura, Tamás Szerafin, László Potor, Melinda Oros, **Péter Nagy**, Gábor Méhes, Zoltán Hendrik, Abolfazl Zarjou, Anupam Agarwal, Niké Posta, Roberta Torregrossa, Matthew Whiteman, György Balla, József Balla
Hydrogen sulfide abrogate heart valve calcification: implications for calcific aortic valve disease
British Journal of Pharmacology (2019) epub ahead of print PubMed Link

58. Joseph Lin, Masahiro Akiyama, Iris Bica, Faith T. Long, Catherine F. Henderson, Robert N. Goddu, Valeria Suarez, Blaine Baker, Tomoaki Ida, Yasuhiro Shinkai, **Péter Nagy**, Takaaki Akaike, Jon M. Fukuto, and Yoshito Kumagai
The Uptake and Release of Polysulfur Cysteine Species by Cells: Physiological and Toxicological Implications
Chemical Research in Toxicology (2019) *32(3),* 447-455. PubMed Link

57. Hisyam Abdul Hamid, Akira Tanaka, Tomoaki Ida, Akira Nishimura, Tetsuro Matsunaga, Shigemoto Fujii, Masanobu Morita, Tomohiro Sawa, Jon M. Fukuto, **Péter Nagy**, Ryouhei Tsutsumi, Hozumi Motohashi, Hideshi Ihara, and Takaaki Akaike
Polysulfide stabilization by tyrosine and hydroxyphenyl-containing derivatives that is important for a reactive sulfur metabolomics analysis
Redox Biology (2019) *21,* 101096. PubMed Link

56. **Péter Nagy***, Günter Schwarz and Stanislav Kopriva
Highlighted mechanistic aspects in the chemical biology of reactive sulfur species
British Journal of Pharmacology (2019) *176,* 511-513. PubMed Link

55. Virág Bogdándi, Tomoaki Ida, Thomas R Sutton, Christopher Bianco, Tamás Ditrói, Grielof Koster, Hillary A Henthorn, Magda Minnion, John P Toscano, Albert van der Vliet, Michael D Pluth, Martin Feelisch, Jon M Fukuto, Takaaki Akaike and **Péter Nagy**[*]
Speciation of Reactive Sulfur Species and their Reactions with Alkylating Agents: Do we have any clue about what is present inside the cell?
British Journal of Pharmacology (2019) *176*, 646-670. PubMed Link

54. Christopher L. Bianco, Takaaki Akaike, Tomoaki Ida, **Péter Nagy**, John P. Toscano, Yoshito Kumagai, Catherine F. Henderson, Robert N. Goddu, Joseph Lin and Jon M. Fukuto
The Reaction of Hydrogen Sulfide with Disulfides: Formation of a Stable Trisulfide and Implications to Biological Systems
British Journal of Pharmacology (2019) *176*, 671-683. PubMed Link

53. Kozich Viktor, Ditrói Tamás, Sokolová Jitka, Křížková Michaela, Krijt Jakub, Ješina Pavel, **Nagy Péter**[*]
Metabolism of sulfur compounds in homocystinurias
British Journal of Pharmacology (2019) *176*, 594-606. PubMed Link

52. Anke Wind, Joris van Dijk, Isabelle Nefkens, Wineke van Lent, **Péter Nagy**, Ernestas Janulionis, Tuula Helander, Francisco Rocha-Goncalves and Wim van Harten
Development of a benchmark tool for cancer centers; results from a pilot exercise
BMC Health Services Research (2018) *18*, 764. PubMed Link

51. Jon M. Fukuto, Louis J. Ignarro, **Péter Nagy**, David A. Wink, Christopher G. Kevil, Martin Feelisch, Miriam M. Cortese-Krott, Christopher L. Bianco, Yoshito Kumagai, Adrian J. Hobbs, Joseph Lin, Tomoaki Ida, Takaaki Akaike
Biological Hydropersulfides and Related Polysulfides: A New Concept and Perspective in Redox Biology
FEBS Letters (2018) *592(12)*, 2140-2152 PubMed Link

50. László Potor, **Péter Nagy**, Gábor Méhes, Zoltán Hendrik, Viktória Jeney, Dávid Pethő, Anita Vasas, Zoltán Pálinkás, Enikő Balogh, Ágnes Gyetvai, Matthew Whiteman, Roberta Torregrossa, Mark E. Wood, Sándor Olvasztó, Péter Nagy, György Balla, József Balla
Hydrogen Sulfide Abrogates Hemoglobin-Lipid Interaction In Atherosclerotic Lesion
Oxidative Medicine and Cellular Longevity (2018) Volume 2018 PubMed Link

49. David E. Heppner, Milena Hristova, Tomoaki Ida, Ana Mijuskovic, Christopher M. Dustin, Virág Bogdándi, Jon M. Fukuto, Tobias P. Dick, **Péter Nagy**, Jianing Li, Takaaki Akaike, Albertvan der Vliet
Cysteine perthiosulfenic acid (Cys-SSOH): A novel intermediate in thiol-based redox signaling?
Redox Biology (2018) *14*, 379-385. PubMed Link

48. Gábor Rubovszky, Barna Budai, Erna Ganofszky, Zsolt Horváth, Éva Juhos, Balázs Madaras ,Tünde Nagy, Eszter Szabó, Tamás Pintér, Erika Tóth, **Péter Nagy**, István Láng, Erika Hitre
Predictive Value of Early Skin Rash in Cetuximab-Based Therapy of Advanced Biliary Tract Cancer
Pathology & Oncology Research (2018) *24(2)*, 237-244. PubMed Link

47. Dorottya Garai, Bessie B. Ríos-González, Paul G. Furtmüller, Jon M. Fukuto, Ming Xian, Juan López-Garriga, Christian C. Obinger, **Péter Nagy**[*]
Mechanisms of myeloperoxidase catalyzed oxidation of H_2S by H_2O_2 or O_2 to produce potent protein Cys-polysulfide-inducing species
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