

2. sz. melléklet – Publikációs lista

I. REAKTÍV KÉNSZÁRMAZÉKOK BIOKÉMIÁJA ÉS REDOX TUMORBIOLÓGIAI JELENTŐSÉGE

i) Eredeti közlemények

144. Dorottya Garai, Katalin Erdélyi, László Bidiga, László Potor, Mária Harmati, Ferenc Kovács, Ede Migh, Tamás Ditrói, Noémi Szántó, Judit Dobos, Péter Horváth, József Tóvári, József Balla and **Péter Nagy***
Therapeutic potential of hydrogen sulfide in MPO-positive ANCA-associated vasculitis
prepared for submission
143. Edward E. Schmidt, Colin G. Miller, Eszter Petra Jurányi, Sydney A. Austad, Tamás Ditrói, Zoe M. Seaford, Sang Jun Yoon, Reed C. Noyd, Yun Pyo Kang, Justin R. Prigge, Vivien Csikós, Dóra Kővári, Gina M. DeNicola and **Péter Nagy***
Cystine C-S bond cleavage fuels cysteine production under disulfide reductase deficiency
Nature Chemical Biology (2026) accepted for publication
142. Chun-Yu Fu, Joshua B Kohl, Filip Liebsch, Davide D’Andrea, Max Mai, Anna T Mellis, Emilia Kouroussis, Tamás Ditrói, José Angel Santamaria-Araujo, Sin Yuin Yeo, Heike Endepols, Michaela Křížková, Viktor Kozich, Uladzimir Barayeu, Takaaki Akaike, Julia B Hennermann, **Péter Nagy**, Milos Filipovic, Günter Schwarz
Sulfite oxidase deficiency causes persulfidation loss and H₂S release
Journal of Clinical Investigation (2025) 135, 21. [PubMed Link](#)
141. Klaudia Borbényi-Galambos, Katalin Erdélyi, Tamás Ditrói, Eszter Petra Jurányi, Noémi Szántó, Edward E. Schmidt, Dorottya Garai, Mihály Cserepes, Gabriella Liskay, Erika Tóth, József Tóvári and **Péter Nagy***
Realigned Transsulfuration Drives BRAF-V600E-Targeted Therapy Resistance in Melanoma
Cell Metabolism (2025) S1550-4131(25)00021-X. [PubMed Link](#)
140. Márton Kokas, Andrea Kádár, András Budai, Soroosh Mozaffaritarab, Lei Zhou, Tímea Téglás, Rebeka Sára Orova, Dániel Gáspár, Daniel Marton Toth, Nabil Sayour, Csenger Kovácsházi, Andrea Xue, Réka Zsuzsanna Szatmári, Domokos Máthé, Noémi Kovács, Krisztián Szigeti, **Péter Nagy**, Ildikó Szatmári, Csaba Fekete, Tamás Arányi, Zoltán V. Varga, Péter Ferdinandy, Zsolt Radák, Andrey V. Kozlov, László Tretter, Attila Ambrus, Tímea Komlódi
Microgliosis, neuronal death, minor behavioral abnormalities and reduced endurance performance in alpha-ketoglutarate dehydrogenase complex deficient mice
Redox Biology (2025) 85, 103743. [Pubmed Link](#)
139. Bernadett György, Réka Szatmári, Tamás Ditrói, Ferenc Torma, Krisztina Pálóczi, Mirjam Balbisi, Tamás Visnovitz, Erika Koltai, **Péter Nagy**, Edit I. Buzás, Steve Horvath & Zsolt Radák
The protein cargo of extracellular vesicles correlates with the epigenetic aging clock of exercise sensitive DNAmFitAge
Biogerontology (2025) 26, 35. [PubMed Link](#)
138. Pablo Martí-Andrés, Isabela Finamor, Isabel Torres-Cuevas, Salvador Pérez, Sergio Rius-Pérez, Hildegard Colino-Lage, David Guerrero-Gómez, Esperanza Morato, Anabel Marina, Patrycja Michalska, Rafael León, Qing Cheng, Eszter Petra Jurányi, Klaudia Borbényi-Galambos, Iván Millán, **Péter Nagy**, Antonio Miranda-Vizuete, Edward E Schmidt, Antonio Martínez-Ruiz, Elias SJ Arnér, Juan Sastre
TRP14 is the rate-limiting enzyme for intracellular cystine reduction and regulates proteome cysteinylation
The EMBO Journal (2024) 43, 2789 – 2812. [PubMed Link](#)

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137. Tamás Gáll, Dávid Pethő, Katalin Erdélyi, Virág Egri, Jázon György Balla, Annamária Nagy, Szilárd Póliska, Magnus Gram, Róbert Gábrriel, **Péter Nagy**, József Balla, György Balla
Heme: A link between hemorrhage and retinopathy of prematurity progression
Redox Biology (2024) 76, 103316. [PubMed Link](#)
136. Thomas Olsen, Kathrine J Vinknes, Kristýna Barvíková, Emma Stolt, Sindre Lee-Ødegård, Hannibal Troensegaard, Hanna Johannessen, Amany Elshorbagy, Jitka Sokolová, Jakub Krijt, Michaela Křížková, Tamás Ditrói, **Péter Nagy**, Bente Øvrebø, Helga Refsum, Magne Thoresen, Kjetil Retterstøl, Viktor Kožich
Dietary sulfur amino acid restriction in humans with overweight and obesity: Evidence of an altered plasma and urine sulfurome, and a novel metabolic signature that correlates with loss of fat mass and adipose tissue gene expression
Redox Biology (2024) 73, 103192. [PubMed Link](#)
135. Tomas Majtan, Thomas Olsen, Jitka Sokolova, Jakub Krijt, Michaela Křížková, Tomoaki Ida, Tamás Ditrói, Hana Hansikova, Ondrej Vit, Jiri Petrak, Ladislav Kuchař, Warren D Kruger, **Péter Nagy**, Takaaki Akaike, Viktor Kožich
Deciphering pathophysiological mechanisms underlying cystathionine beta-synthase-deficient homocystinuria using targeted metabolomics, liver proteomics, sphingolipidomics and analysis of mitochondrial function
Redox Biology (2024) 73, 103222. [PubMed Link](#)
134. Theodora Panagaki, Lucia Janickova, Dunja Petrovic, Karim Zuhra, Tamás Ditrói, Eszter P. Jurányi, Olivier Bremer, Kelly Ascensão, Thilo M. Philipp, **Péter Nagy**, Milos R. Filipovic, Csaba Szabo
Neurobehavioral dysfunction in a mouse model of Down syndrome: upregulation of cystathionine β -synthase, H₂S overproduction, altered protein persulfidation, synaptic dysfunction, endoplasmic reticulum stress, and autophagy
Geroscience (2024) 46(5):4275-4314. [PubMed Link](#)
133. Bessie B. Ríos-González, Andrea Domán, Tamás Ditrói, Dorottya Garai, Leishka D. Crespo, Gary J. Gerfen, Paul G. Furtmüller, **Péter Nagy*** and Juan López-Garriga*
Lactoperoxidase catalytically oxidize hydrogen sulfide via intermediate formation of sulfheme derivatives
Redox Biochemistry and Chemistry (2024) 113, 551-563. [PubMed Link](#)
2024 Paper of the Year in Redox Biochemistry & Chemistry
132. Zsolt Combi, László Potor, **Péter Nagy**, Katalin Éva Sikura, Tamás Ditrói, Eszter Petra Jurányi, Klaudia Galambos, Tamás Szerafin, Péter Gergely, Matthew Whiteman, Roberta Torregrossa, Yuchao Ding, Livia Beke, Zoltán Hendrik, Gábor Méhes, György Balla, József Balla
Hydrogen sulfide as an anti-calcification stratagem in human aortic valve: Altered biogenesis and mitochondrial metabolism of H₂S lead to H₂S deficiency in calcific aortic valve disease
Redox Biology (2023) 60, 102629. [PubMed Link](#)
131. Erik Márk Orján, Eszter Sára Kormányos, Gabriella Mihalekné Fűr, Ágnes Dombi, Emese Réka Bálint, Zsolt Balla, Beáta Adél Balog, Ágnes Dágó, Ahmad Totonji, Zoárd István Bártai, Eszter Petra Jurányi, Tamás Ditrói, Ammar Al-Omari, Gábor Pozsgai, Viktória Kormos, **Péter Nagy**, Erika Pintér, Zoltán Rakonczay Jr, and Lóránd Kiss
The anti-inflammatory effect of dimethyl trisulfide in experimental acute pancreatitis
Scientific Reports (2023) 13, 16813. [PubMed Link](#)
130. Tetsuro Matsunaga, Hirohito Sano, Katsuya Takita, Masanobu Morita, Shun Yamanaka, Tomohiro Ichikawa, Tadahisa Numakura, Tomoaki Ida, Minkyung Jung, Seiryō Ogata, Sunghyeon Yoon, Naoya Fujino, Yorihiko Kyogoku, Yusaku Sasaki, Akira Koarai, Tsutomu Tamada, Atsuhiko Toyama, Takakazu Nakabayashi, Lisa Kageyama, Shigeru Kyuwa, Kenji Inaba, Satoshi Watanabe,

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- Péter Nagy**, Tomohiro Sawa, Hiroyuki Oshiumi, Masakazu Ichinose, Mitsuhiro Yamada, Hisatoshi Sugiura, Fan-Yan Wei, Hozumi Motohashi, and Takaaki Akaike
Supersulphides provide airway protection in viral and chronic lung diseases
Nature Communications (2023) 14, 4476 [PubMed Link](#)
129. Viktor Kožich, Bernd C Schwahn, Jitka Sokolová, Michaela Křížková, Tamas Ditroi, Jakub Krijt, Youssef Khalil, Tomáš Křížek, Tereza Vaculíková-Fantlová, Blanka Stibůrková, Philippa Mills, Peter Clayton, Kristýna Barvíková, Holger Blessing, Jolanta Sykut-Cegielska, Carlo Dionisi-Vici, Serena Gasperini, Angeles García-Cazorla, Tobias B Haack, Tomáš Honzík, Pavel Ješina, Alice Kuster, Lucia Laugwitz, Diego Martinelli, Francesco Porta, René Santer, Guenter Schwarz, **Péter Nagy***
Human ultrarare genetic disorders of sulfur metabolism demonstrate redundancies in H₂S homeostasis
Redox Biology (2022) 58, 102517. [PubMed Link](#)
128. Ágnes Czikora, Katalin Erdélyi, Tamás Ditrói, Noémi Szántó, Eszter Petra Jurányi, Szilárd Szanyi, József Tóvári, Tamás Strausz, **Péter Nagy***
Cystathionine B-Synthase Overexpression Drives Metastatic Dissemination in Pancreatic Ductal Adenocarcinoma Via Inducing Epithelial-to-Mesenchymal Transformation of Cancer Cells
Redox Biology (2022) 57, 102505. [PubMed Link](#)
127. Tamás Gáll, **Péter Nagy**, Dorottya Garai, László Potor, György Jázon Balla, György Balla, József Balla,
Overview on hydrogen sulfide-mediated suppression of vascular calcification and hemoglobin/heme-mediated vascular damage in atherosclerosis
Redox Biology (2022) 57, 102504. [PubMed Link](#)
126. Katalin Erdélyi, Tamás Ditrói, Henrik J. Johansson, Ágnes Czikora, Noémi Balog, Laxmi Silwal-Pandit, Tomoaki Ida, Judit Olasz, Dorottya Hajdú, Zoltán Mátrai, Orsolya Csuka, Koji Uchida, József Tóvári, Olav Engebraten, Takaaki Akaike, Anne-Lise Børresen Dale, Miklós Kásler, Janne Lehtiö, **Péter Nagy***
Reprogrammed transsulfuration promotes basal-like breast tumor progression via realigning cellular cysteine persulfidation
Proceedings of the National Academy of Sciences of the United States of America (2021) 118, e2100050118 [PubMed Link](#)
125. Alban Longchamp, Michael R MacArthur, Kaspar Trocha , Janine Ganahl , Charlotte G Mann, Peter Kip, William W King, Gaurav Sharma, Ming Tao, Sarah J Mitchell , Tamás Ditrói, Jie Yang, **Péter Nagy**, C Keith Ozaki, Christopher Hine, James R Mitchell
Plasma Hydrogen Sulfide Is Positively Associated With Post-operative Survival in Patients Undergoing Surgical Revascularization
Frontiers in cardiovascular medicine (2021) 8, 750926. [PubMed Link](#)
124. Jakub Krijt, Jitka Sokolová, Jan Šilhavý, Petr Mlejnek, Jan Kubovčíak, František Liška, Hana Malínská, Martina Hüttl, Irena Marková, Michaela Křížková, Martha H Stipanuk, Tomáš Křížek, Tamas Ditroi, **Péter Nagy**, Viktor Kožich and Michal Pravenec
High cysteine diet reduces insulin resistance in SHR-CRP Rats
Physiological Research (2021) 70, 687-700. [PubMed Link](#)
123. Zoltán Gombos, Erika Koltai, Ferenc Torma, Péter Bakonyi, Attila Kolonics, Dóra Aczél, Tamás Ditrói, **Péter Nagy**, Takuji Kawamura, Zsolt Radák
Hypertrophy of rat skeletal muscle is associated with increased SIRT1/Akt/mTOR/S6 and suppressed Sestrin2/SIRT3/FOXO1 levels
International Journal of Molecular Sciences (2021) 22, 7588. [PubMed Link](#)

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122. Anna-Theresa Mellis, Albert L. Misko, Sita Arjune, Ye Liang, Katalin Erdélyi, Tamás Ditrói, Alexander T. Kaczmarek, **Péter Nagy**, Guenter Schwarz
The role of glutamate oxaloacetate transaminases in sulfite biosynthesis and H₂S metabolism
Redox Biology (2021) 38, 101800. [PubMed Link](#)
121. Éva Dóka, Elias S. J. Arnér, Edward E. Schmidt, Tobias P. Dick, Albert van der Vliet, Jing Yang, Réka Szatmári, Tamás Ditrói, John L. Wallace, Giuseppe Cirino, Kenneth Olson, Hozumi Motohashi, Jon M. Fukuto, Michael D. Pluth, Martin Feelisch, Takaaki Akaike, David A. Wink, Louis J. Ignarro, **Péter Nagy***
Comment on “Evidence that the ProPerDP method is inadequate for protein persulfidation detection due to lack of specificity”
Science Advances (2021) 7, eabe7006. [PubMed Link](#)
120. Virág Bogdándi, Tamás Ditrói, István Zoárd Batai, Zoltán Sándor, Magda Minnion, Anita Vasas, Klaudia Galambos, Péter Buglyó, Erika Pintér, Martin Feelisch, **Péter Nagy***
Nitrosopersulfide (SSNO-) is a unique cysteine polysulfidating agent with reduction-resistant bioactivity
Antioxidants and Redox Signaling (2020) 33, 1277-1294 [PubMed Link](#)
119. Lucía Álvarez, Valeria Suarez Vega, Christopher McGinity, Vinayak S. Khodade, John P. Toscano, **Péter Nagy**, Joseph Lin, Carmen Works, Jon M. Fukuto
The reactions of hydropersulfides (RSSH) with myoglobin
Archives of Biochemistry and Biophysics (2020) 687, 108391. [PubMed Link](#)
118. Katalin Éva Sikura, László Potor, Tamás Szerafin, Melinda Oros, **Péter Nagy**, Gábor Méhes, Zoltán Hendrik, Abolfazl Zarjou, Anupam Agarwal, Niké Posta, Roberta Torregrossa, Matthew Whiteman, Ibolya Fürtös, György Balla, József Balla
Hydrogen sulfide inhibits calcification of heart valves; implications for calcific aortic valve disease
British Journal of Pharmacology (2020) 177, 793-809. [PubMed Link](#)
117. 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 (2020) 177, 769-777. [PubMed Link](#)
116. Éva Dóka, Tomoaki Ida, Markus Dagnell, Yumi Abiko, Nho Luong Cong, Noémi Balog, Tsuyoshi Takata, Belen Espinosa, Akira Nishimura, Qing Cheng, Yosuke Funato, Hiroaki Miki, Jon Fukuto, Justin R. Prigge, Edward E. Schmidt, Elias S. J. Arnér, Yoshito Kumagai, Takaaki Akaike, **Péter Nagy***
Control of protein function through oxidation and reduction of persulfidated states
Science Advances (2020) 6(1):eaax8358. [PubMed Link](#) 
115. Tamás Ditrói, Attila Nagy, Diego Martinelli, András Rosta, Viktor Kožich, **Péter Nagy***
Comprehensive analysis of how experimental parameters affect H₂S measurements by the monobromobimane method
Free Radical Biology and Medicine (2019) 136, 146-158. [PubMed Link](#)
114. 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, 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](#)

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113. 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](#)
112. 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, **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](#)
Top downloaded paper 2018 -2019
111. Christopher L. Bianco, Takaaki Akaike, Tomoaki Ida, **Péter Nagy**, Virág Bogdándi, John P. Toscano, Yoshito Kumagai, Catherine F. Henderson, Robert N. Goddu, Joseph Lin, Jon M. Fukuto
The Reaction of Hydrogen Sulfide with Disulfides: Formation of a Stable Trisulfide and Implications for Biological Systems
British Journal of Pharmacology (2019) 176, 671-683. [PubMed Link](#)
110. 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, Yoshito Kumagai
The Uptake and Release of Polysulfur Cysteine Species by Cells: Physiological and Toxicological Implications
Chemical Research in Toxicology (2019) 32, 447-455. [PubMed Link](#)
- 1089 László Potor, **Péter Nagy**, Gábor Méhes, Zoltán Hendrik, Viktória Jeney, Dávid Pethő, Anita Vasas, Zoltán Pálincás, 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](#)
108. 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](#)
107. 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 H₂S by H₂O₂ or O₂ to produce potent protein Cys-polysulfide-inducing species
Free Radical Biology and Medicine (2017) 113, 551–563. [PubMed Link](#)
106. Takaaki Akaike, Tomoaki Ida, Fan-Yan Wei, Motohiro Nishida, Yoshito Kumagai, Md. Morshedul Alam, Hideshi Ihara, Tomohiro Sawa, Tetsuro Matsunaga, Shingo Kasamatsu, Akiyuki Nishimura, Masanobu Morita, Kazuhito Tomizawa, Akira Nishimura, Satoshi Watanabe, Kenji Inaba, Hiroshi Shima, Nobuhiro Tanuma, Minkyung Jung, Shigemoto Fujii, Yasuo Watanabe, Masaki Ohmuraya, **Péter Nagy**, Martin Feelisch, Jon M. Fukuto, Hozumi Motohashi
Cysteinyl-tRNA synthetase governs cysteine polysulfidation and mitochondrial bioenergetics
Nature Communications (2017) 8, 1177. [PubMed Link](#)

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105. Bartosz Szczesny, Michela Marcatti, John R. Zatarain, Nadiya Druzhyna, John E. Wiktorowicz, **Péter Nagy**, Mark R. Hellmich, Csaba Szabo
Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics
Scientific Reports (2016) 6, 36125. [PubMed Link](#)
104. Gábor Sirokmány, Anna Pató, Melinda Zana, Ágnes Donkó, Adrienn Bíró, **Péter Nagy**, Miklós Geiszt
Epidermal growth factor-induced hydrogen peroxide production is mediated by dual oxidase 1
Free Radical Biology and Medicine (2016) 97, 204-211. [PubMed Link](#)
103. Éva Dóka, Irina Pader, Adrienn Bíró, Katarina Johansson, Qing Cheng, Krisztina Ballagó, Justin R. Prigge, Daniel Pastor-Flores, Tobias P. Dick, Edward E. Schmidt, Elias S. J. Arnér, **Péter Nagy***
Novel persulfide detection method reveals protein persulfide and polysulfide reducing functions of thioredoxin- and glutathione-systems
Science Advances (2016) 2, e1500968. [PubMed Link](#)
102. Miriam M. Cortese-Krott, Gunter GC Kuhnle, Alex Dyson, Bernadette O. Fernandez, Marian Grman, Jenna F. DuMond, Mark P Barrow, George McLeod, Hidehiko Nakagawa, Karol Ondrias, **Péter Nagy**, S. Bruce King, Joseph Saavedra, Larry Keefer, Mervyn Singer, Malte Kelm, Anthony R. Butler, Martin Feelisch,
The key bioactive reaction products of NO/H₂S interaction are S/N hybrid species, polysulfides and nitroxyl.
Proceedings of the National Academy of Sciences of the United States of America (2015) 112, E4651-E4660. [PubMed Link](#) Commentary: CL. Bianco and JM. Fukuto PNAS (2015) 112, 10573
101. Tamás Baranyai, Kata Herczeg, Zsófia Onódi, István Voszka, Károly Módos, Nikolett Marton, György Nagy, Imre Mäger, Matthew J. Wood, Samir El Andaloussi, Zoltán Pálincás, Vikas Kumar, **Péter Nagy**, Ágnes Kittel, Edit Irén Buzás, Péter Ferdinandy, Zoltán Giricz
Isolation of Exosomes from Blood Plasma: Qualitative and Quantitative Comparison of Ultracentrifugation and Size Exclusion Chromatography Methods
Plos One (2015) 10, e0145686 [PubMed Link](#)
100. Anita Vasas, Éva Dóka, István Fábrián, **Péter Nagy***
Kinetic and thermodynamic studies on the disulfide-bond reducing potential of hydrogen sulfide
Nitric Oxide Biology and Chemistry (2015) 46, 93-101. Hydrogen Sulfide Biology and Therapeutic Applications special issue, Edited by Prof. Hideo Kimura [PubMed Link](#)
99. Andrea Berenyiova, Marian Grman, Ana Mijuskovic, Andrej Stasko, Anton Misak, **Péter Nagy**, Elena Ondriasova, Sona Cacanyiova, Vlasta Brezova, Martin Feelisch, Karol Ondrias
The reaction products of sulfide and S-nitrosoglutathione are potent vasorelaxants
Nitric Oxide Biology and Chemistry (2015) 46, 123-130. Hydrogen Sulfide Biology and Therapeutic Applications special issue, Edited by Prof. Hideo Kimura [PubMed Link](#)
98. Zoltán Pálincás, Paul G. Furtmüller, Attila Nagy, Christa Jakopitsch, Katharina F. Pirker, Marcin Magierowski, Katarzyna Jasnos, John L. Wallace, Christian Obinger, **Péter Nagy***
Interactions of hydrogen sulfide with myeloperoxidase
British Journal of Pharmacology (2015) 172, 1516-1532. [PubMed Link](#)
97. David Peralta, Agnieszka K. Bronowska, Bruce Morgan, Éva Dóka, Koen Van Laer, **Péter Nagy**, Frauke Gräter, Tobias P. Dick
A proton relay enhances H₂O₂ sensitivity of GAPDH to facilitate metabolic adaptation
Nature Chemical Biology (2015) 11, 156-163. [PubMed Link](#)

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96. Jianqiang Xu, Sofi E. Eriksson, Marcus Cebula, Tatyana Sandalova, Elisabeth Hedström, Irina Pader, Qing Cheng, Charles R. Myers, William E. Antholine, **Péter Nagy**, Ulf Hellman, Galina Selivanova, Ylva Lindqvist, Elias S. J. Arnér
The conserved Trp114 residue of thioredoxin reductase 1 has a redox sensor-like function triggering oligomerisation and crosslinking upon oxidative stress related to cell death 
Cell Death and Disease - Nature (2015) 6: p. e1616. [PubMed Link](#)
95. Miriam M. Cortese-Krott, Bernadette O. Fernandez, José LT Santos, Evanthia Mergia, Marian Grman, **Péter Nagy**, Malte Kelm, Anthony Butler, Martin Feelisch*
Nitrosopersulfide (SSNO-) accounts for sustained NO bioactivity of S-nitrosothiols following reaction with sulfide
Redox Biology (2014) 2, 234-244. [PubMed Link](#)
94. Andrew Das, Thomas Nauser, Willem H. Koppenol, Anthony J Kettle, Christine C. Winterbourn, **Péter Nagy***
Rapid reaction of superoxide with insulin-tyrosyl radicals to generate a hydroperoxide with subsequent glutathione addition
Free Radical Biology and Medicine (2014) 70, 86-95. [PubMed Link](#)
93. Romy Greiner, Zoltán Pálinkás, Katrin Bäsell, Dörte Becher, Haike Antelmann, **Péter Nagy**, Tobias Dick
Polysulfides link H₂S to protein thiol oxidation
Antioxidants and Redox Signaling (2013) 19, 1749-1765. [PubMed Link](#)

ii) Könyvfejezetek

92. Dorottya Garai, Zoltán Pálinkás, József Balla, Anthony J. Kettle, **Péter Nagy***
Measurements for sulfide-mediated inhibition of myeloperoxidase activity
In: Belkowski J. (eds) Vascular Effects of Hydrogen Sulfide. **Methods in Molecular Biology**, vol 2007. Humana, New York, NY (2019) 179-203.
91. Éva Dóka, Elias S. J. Arnér, Edward E. Schmidt, **Péter Nagy***.
ProPerDP, a Protein Persulfide Detection Protocol
In: Belkowski J. (eds) Vascular Effects of Hydrogen Sulfide. **Methods in Molecular Biology**, vol 2007. Humana, New York, NY (2019) 51-77.
90. 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.
89. **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](#)
88. **Péter Nagy***, 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.

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