

I. REAKTÍV KÉNSZÁRMAZÉKOK BIOKÉMIÁJA ÉS REDOX TUMORBIOLÓGIAI JELENTŐSÉGE

i) Eredeti közlemények

135. 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 stress
Nature Chemical Biology (2025) in revision
134. 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](#)
133. 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](#)
132. Tamás Gáll, Dávid Pethő, Katalin Erdélyi, Virág Egri, Jázon György Balla, Annamária Nagy, Szilárd Pólska, Magnus Gram, Róbert Gábor, **Péter Nagy**, József Balla, György Balla
Heme: A link between hemorrhage and retinopathy of prematurity progression
Redox Biology (2024) 76, 103316. [PubMed Link](#)
131. 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](#)
130. 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](#)
129. 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](#)

2. sz. melléklet – Publikációs lista

128. 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](#)
127. 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](#)
126. 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 Yui 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 (2024) [Preprint Link](#) under revision
125. 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](#)
124. Erik Márk Orján, Eszter Sára Kormányos, Gabriella Mihalekné Für, Ágnes Dombi, Emese Réka Bálint, Zsolt Balla, Beáta Adél Balog, Ágnes Dágó, Ahmad Totonji, Zoárd István Bátai, 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](#)
123. Tetsuro Matsunaga, Hirohito Sano, Katsuya Takita, Masanobu Morita, Shun Yamanaka, Tomohiro Ichikawa, Tadahisa Numakura, Tomoaki Ida, Minkyung Jung, Seiryō Ogata, Sunghyeon Yoon, Naoya Fujino, Yorihiro Kyogoku, Yusaku Sasaki, Akira Koarai, Tsutomu Tamada, Atsuhiko Toyama, Takakazu Nakabayashi, Lisa Kageyama, Shigeru Kyuwa, Kenji Inaba, Satoshi Watanabe, **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](#)
122. Viktor Kozich, Bernd C Schwahn, Jitka Sokolová, Michaela Křížková, Tamas Ditrói, 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, Ángeles 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](#)

2. sz. melléklet – Publikációs lista

121. Ágnes Czíkora, 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](#)
120. 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](#)
119. Katalin Erdélyi, Tamás Ditrói, Henrik J. Johansson, Ágnes Czíkora, 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](#)
118. 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](#)
117. 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 Ditrói, **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](#)
116. 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](#)
115. 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](#)
114. 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](#)

2. sz. melléklet – Publikációs lista

113. Virág Bogdándi, Tamás Ditrói, István Zoárd Bátai, 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](#)
112. 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](#)
111. 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](#)
110. 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](#)
109. 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](#) 
108. 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](#)
107. 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](#)
106. 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](#)
105. 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

2. sz. melléklet – Publikációs lista

104. 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](#)
103. 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](#)
102. László Potor, **Péter Nagy**, Gábor Méhes, Zoltán Hendrik, Viktória Jeney, Dávid Pethő, Anita Vasas, Zoltán Pálkás, 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](#)
101. 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, Albert van der Vliet
Cysteine perthiosulfenic acid (Cys-SSOH): A novel intermediate in thiol-based redox signaling?
Redox Biology (2018) 14, 379-385. [PubMed Link](#)
100. 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](#)
99. 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](#)
98. 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](#)
97. 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](#)

2. sz. melléklet – Publikációs lista

96. 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](#)
95. 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
94. Tamás Baranyai, Kata Herczeg, Zsófia Onódi, István Voszka, Károly Módos, Nikolett Marton, György Nagy, Imre Mäger, Matthew J. Wood, Samir El Andaloussi, Zoltán Pálinkás, 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](#)
93. Anita Vasas, Éva Dóka, István Fábián, **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](#)
92. 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](#)
91. Zoltán Pálinkás, 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](#)
90. 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](#)
89. 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](#) 

2. sz. melléklet – Publikációs lista

88. 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](#)
87. 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](#)
86. 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

85. 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.
84. 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.
83. 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.
82. **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](#)
81. **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.
80. **Péter Nagy**, Julie D. Becker, Rachael C. Mallo, Michael T. Ashby
The Jekyll and Hyde Roles of Cysteine 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.

iii) Összefoglaló cikkek

79. **Péter Nagy***, Bindu D. Paul, Andrea Domán, Éva Dóka, József Balla, Michael P. Murphy, Christine Winterbourn, Rafael Radi, Solomon Snyder, Louis J. Ignarro and Helmut Sies
Multifaceted roles for Persulfide Species in Redox Chemical Biology
Nature Chemical Biology (2024) invited review under construction

2. sz. melléklet – Publikációs lista

78. Klaudia Borbényi-Galambos, Ágnes Czikora, Katalin Erdélyi and **Péter Nagy***
Versatile roles of cysteine persulfides in tumor biology
Current Opinion in Chemical Biology (2024) 79, 102440. [PubMed Link](#)
77. Danny Schilling, Tamás Ditrói, Uladzimir Barayeu, Eszter Petra Jurányi, **Péter Nagy***, Tobias P. Dick*
The influence of alkylating agents on sulfur-sulfur bonds in per- and polysulfides
Current Opinion in Chemical Biology (2023) 76, 102368 [PubMed Link](#)
76. Andrea Domán, Éva Dóka, Dorottya Garai, Virág Bogdándi, György Balla, József Balla, **Péter Nagy***
Interactions of reactive sulfur species with metalloproteins
Redox Biology (2023) 60, 102617. [PubMed Link](#)
75. **Péter Nagy**
Recent advances in sulfur biology and chemistry
Redox Biology (2023) 63, 102716 [PubMed Link](#)
74. **Péter Nagy**, Eva Doka, Tomoaki Ida, Takaaki Akaike
Measuring Reactive Sulfur Species and Thiol Oxidation States: Challenges and Cautions in Relation to Alkylation Based Protocols
Antioxidants and Redox Signaling (2020) 33, 1174-1189. [PubMed Link](#)
73. **Péter Nagy***, Günter Schwarz, Stanislav Kopriva
Highlighted mechanistic aspects in the chemical biology of reactive sulfur species
British Journal of Pharmacology (2019) 176, 511-513. [PubMed Link](#)
72. 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, 2140-2152. [PubMed Link](#)
71. Miriam Margherita Cortese-Krott, Anne Koning, Gunter Georg Kuhnle, **Péter Nagy**, Christopher Bianco, Andreas Pasch, David A Wink, Jon Fukuto, Alan Jackson, Harry van Goor, Kenneth Olson, Martin Feelisch
The Reactive Species Interactome: Evolutionary Emergence, Biological Significance, and Opportunities for Redox Metabolomics and Personalized Medicine
Antioxidants and Redox Signaling (2017) 27, 684-712. [PubMed Link](#)
70. Katsuhiko Ono, Takaake Akaike, Tomohiro Sawa, Yoshito Kumagai, David A Wink, Dean J Tantillo, Adrian J Hobbs, **Péter Nagy**, Ming Xian, Joseph Lin, Jon M Fukuto
Redox Chemistry and Chemical Biology of H₂S, Hydropersulfides and Derived Species: Implications of Their Possible Biological Activity and Utility
Free Radical Biology and Medicine (2014) 77, 82-94. [PubMed Link](#)
69. **Péter Nagy***, Zoltán Pálinkás, Attila Nagy, Barna Budai, Imre Tóth, Anita Vasas
Chemical aspects of hydrogen sulfide measurements in physiological samples
Biochimica et Biophysica Acta invited review for the “Current methods to study reactive oxygen species – strengths and limitations” (2014) 1840, 876-891. [PubMed Link](#)

2. sz. melléklet – Publikációs lista

68. **Péter Nagy***

Kinetics and Mechanisms of Thiol-Disulfide Exchange Covering Direct Substitution and Thiol Oxidation-Mediated Pathways

Antioxidants and Redox Signaling Thiol-Disulfide Exchange Forum Issue (2012) *Invited review* (2013) 18, 1623-1641. [PubMed Link](#)

II. REAKTÍV KÉN- ÉS OXIGÉNSZÁRMAZÉKOK FIZIKAI KÉMIAJA

67. **Péter Nagy**, Thomas P. Lechte, Andrew B. Das, Christine C. Winterbourn

Conjugation of Glutathione to Oxidized Tyrosine Residues in Peptides and Proteins

Journal of Biological Chemistry (2012) 287, 26068-26076. [PubMed Link](#)

Spotlighted in *Chemical Research in Toxicology* (2012) 25, 1544.

66. **Péter Nagy***, Amir Karton, Andrea Betz, Alexander V. Peskin, Paul Pace, Robert O'Reilly, Mark B. Hampton, Leo Radom, Christine C. Winterbourn

Model for the Exceptional Reactivity of Peroxiredoxins 2 and 3 with Hydrogen Peroxide; A Kinetic and Computational Study

Journal of Biological Chemistry (2011) 286, 18048-18055. [PubMed Link](#)

65. **Péter Nagy***, Christine C. Winterbourn

Rapid Reaction of Hydrogen Sulfide with the Neutrophil Oxidant Hypochlorous Acid to Generate Polysulfides

Chemical Research in Toxicology Rapid Reports (2010) 23, 1541-1543. [PubMed Link](#)

64. Alexander V. Peskin, Andrew G. Cox, **Péter Nagy**, Philipp E. Morgan, Michael J. Davies, Mark B. Hampton, Christine C. Winterbourn

Rapid Removal of Amino acid, Peptide and Protein Hydroperoxides by Reaction with Peroxiredoxin 2&3

Biochemical Journal (2010) 432, 313-321. [PubMed Link](#)

63. Stephanie M. Bozonet, Amy Scott-Thomas, **Péter Nagy**, Margreet C. M. Vissers

Hypothiocyanous Acid is a Potent Inhibitor of Apoptosis and Caspase-3 Activation in Endothelial Cells

Free Radical Biology and Medicine (2010) 49, 1054-1063. [PubMed Link](#)

62. **Péter Nagy***, Anthony J. Kettle, Christine C. Winterbourn

Neutrophil-Mediated Oxidation of Enkephalins via Myeloperoxidase-Dependent Addition of Superoxide

Free Radical Biology and Medicine (2010) 49, 792-799. [PubMed Link](#)

61. Andrew B. Das, **Péter Nagy**, Helen Abbott, Christine C. Winterbourn, Anthony J. Kettle

Reactions of superoxide with the myoglobin tyrosyl radical

Free Radical Biology and Medicine (2010) 48, 1540-1547. [PubMed Link](#)

60. **Péter Nagy***, Guy N. L. Jameson, Christine C. Winterbourn

Kinetics and Mechanisms of the reaction of Hypothiocyanous acid with Reduced Glutathione and 5-Thio-2-Nitrobenzoic acid

Chemical Research in Toxicology (2009) 22, 1833-1840. [PubMed Link](#)

59. **Péter Nagy**, Anthony J. Kettle, Christine C. Winterbourn

Superoxide-Mediated Formation of Tyrosine Hydroperoxides and Methionine Sulfoxide in Peptides through Radical Addition and Intramolecular Oxygen Transfer

Journal of Biological Chemistry (2009) 284, 14723-14733. [PubMed Link](#)

2. sz. melléklet – Publikációs lista

58. **Péter Nagy**, Hisanori Ueki, Dmitrii O. Berbasov, Vadim A. Soloshonok
Kinetics and Mechanism of Triethylamine-Catalyzed 1,3-Proton Shift. Optimized and Substantially Improved Reaction Conditions for Biomimetic Reductive Amination of Fluorine-Containing Carbonyl Compounds.
Journal of Fluorine Chemistry (2008) 129, 409-415.
57. **Péter Nagy**, Xiaoguang Wang, Kelemu Lemma, Michael T. Ashby
Reactive Sulfur Species: Hydrolysis of Hypothiocyanite to Give Thiocarbamate-S-oxide
Journal of the American Chemical Society (2007) 129, 15756-15757. [PubMed Link](#)
56. **Péter Nagy**, Kelemu Lemma, Michael T. Ashby
Reactive Sulfur Species: Kinetics and Mechanisms of the Reaction of Cysteine Thiosulfinate Ester with Cysteine to Give Cysteine Sulfenic Acid
Journal of Organic Chemistry (2007) 72, 8838-8846. [PubMed Link](#)
55. **Péter Nagy**, Michael T. Ashby
Reactive Sulfur Species: Kinetics and Mechanisms of the Oxidation of Cysteine by Hypohalous Acid to Give Cysteine Sulfenic Acid
Journal of the American Chemical Society (2007) 129, 14082-14091. [PubMed Link](#)
54. **Péter Nagy**, Michael T. Ashby
Reactive Sulfur Species: Kinetics and Mechanism of the Hydrolysis of Cysteine Thiosulfinate Ester
Chemical Research in Toxicology (2007) 20, 1364-1372. [PubMed Link](#)
53. **Péter Nagy**, Michael T. Ashby
Kinetics and Mechanism of the Oxidation of Glutathione Dimer by Hypochlorous Acid and Catalytic Reduction of the Dichloroamine Product by Glutathione Reductase
Chemical Research in Toxicology (2007) 20, 79-87. [PubMed Link](#)
52. **Péter Nagy**, Kelemu Lemma, Michael T. Ashby
Kinetics and Mechanism of the Comproportionation of Hypothiocyanous Acid and Thiocyanate to Give Thiocyanogen in Acidic Aqueous Solution
Inorganic Chemistry (2007) 46, 285-292. [PubMed Link](#)
51. Michael T. Ashby, **Péter Nagy**
Revisiting a Proposed Kinetic Model for the Reaction of Cysteine and Hydrogen Peroxide via Cysteine Sulfenic Acid
International Journal of Chemical Kinetics (2007) 39, 32-38.
50. **Péter Nagy**, Susan S. Alguindigue, Michael T. Ashby
Lactoperoxidase-Catalyzed Oxidation of Thiocyanate by Hydrogen Peroxide: A Reinvestigation of Hypothiocyanite by Nuclear Magnetic Resonance and Optical Spectroscopy
Biochemistry (2006) 45, 12610-12616. [PubMed Link](#)
49. **Péter Nagy**, Jennifer L. Beal, Michael T. Ashby
Thiocyanate is an Efficient Endogenous Scavenger for the Phagocytic Killing Agent Hypobromous Acid
Chemical Research in Toxicology (2006) 19, 587-593. [PubMed Link](#)
48. Michael T. Ashby, **Péter Nagy**
On the Kinetics and Mechanism of the Reaction of Cysteine and Hydrogen Peroxide in Aqueous Solution **Journal of Pharmaceutical Sciences** (2006) 95, 15-18. [PubMed Link](#)

2. sz. melléklet – Publikációs lista

47. **Péter Nagy**, Michael T. Ashby
Reactive Sulfur Species: Kinetics and Mechanism of the Oxidation of Cystine by Hypochlorous Acid to Give N,N'-Dichlorocystine
Chemical Research in Toxicology (2005) 18, 919-923. [PubMed Link](#)

III. KLINIKAI ONKOLÓGIA ÉS SZAKPOLITIKA

46. P.G. Casali 1 2, H. Antoine-Poirel 3, S. Berrocso 4, J.-Y. Blay 5, T. Dubois 6, A. Ferrari 2 7, A. Fullaondo 4, E. Hovig 8, P. Jagodzińska-Mucha 9, I. Ługowska 10, S. Kaasa 11, D. Nicoară 12, V. Pletsa 13, S. Provenzano 1, M. Santoro 14, M. Škerija 15 16, W. Van Hoof 17, M. Vyas 18, A. Trama 19 on behalf of the JANE Consortium† (inc. Péter Nagy)
Health networking on cancer in the European Union: a 'green paper' by the EU Joint Action on Networks of Expertise (JANE)
ESMO Open (2025) 10(2):104126. [Pubmed Link](#)
45. Zoltán Kiss, Tamás G Szabó, Csaba Polgár, Zsolt Horváth, **Péter Nagy**, Ibolya Fábián, Valéria Kovács, György Surján, Zsófia Barcza, István Kenessey, András Wéber, István Wittmann, Gergő Attila Molnár, Eszter Gyöngyösi, Angéla Benedek, Eugenia Karamousouli, Zsolt Abonyi-Tóth, Renáta Tamás Bartókné, Diána Viktória Fürtös, Krisztina Bogos, Judit Moldvay, Gabriella Gálffy, Lilla Tamási, Veronika Müller, Zoárd Krasznai, Gyula Ostoros, Zsolt Pápai-Székely, Anikó Maráz, Gabriella Branyiczkiné Géczy, Lászlóné Hilbert, Tamás Berki, György Rokszin, Zoltán Vokó
Revising cancer incidence in a central european country: a hungarian nationwide study between 2011-2019 based on a health insurance fund database
Frontiers in Oncology (2024) [PubMed Link](#)
44. Erika Tóth, Zsófia Kürönya, Edina Soós, Tamás Pintér, Henriett Butz, Zsolt Horváth, Erzsébet Csernák, Vince Kornél Grolmusz, Judit Székely, Tamás Strauss, József Lövey, Levenete Jánvári, László Báthory-Fülöp, **Péter Nagy**, Csaba Polgár, Attila Patócs
Application of comprehensive molecular genetic profiling in precision cancer medicine, Hungarian experiences
Acta Oncologica 2024 (63); 433-440. [PubMed Link](#)
43. Anders Edsjö, Hege G Russnes, Janne Lehtiö, David Tamborero, Eivind Hovig, Albrecht Stenzinger, Richard Rosenquist, PCM4EU consortium, Agnieszka Janowska, Alba López Rioja, Albrecht Stenzinger, Ali Razzak, Anders Edsjö, Anni Lepland, Antonio Marra, Anu Planken, Åslaug Helland, Attila Patócs, Beatrice Mainoli, Bettina Ryll, Birute Brasiuniene, Daniel Kazdal, David Tamborero, Dora Cerina, Ebba Hallersjö Hult, Edit Baltruškevičienė, Eduard Vrdoljak, Eivind Hovig, Elena Chavarria, Elena Garralda, Eline Aas, Elisa Bjørge, Emile Voest, Giuseppe Curigliano, Gro Live Fagereng, Hans Gelderblom, Hege G Russnes, Henk Verheul, Hans Timmer, Irene Brana, Iwona Lugowska, Janne Lehtiö, Jean-Yves Blay, Julio Oliveira, Kadri Rekker, Kadri Toome, Katriina Jalkanen, Kjetil Taskén, Knut Smeland, Kristiina Ojamaa, Kristoffer Staal Rohrberg, Loic Verlingue, Manon Antouly, Mika Mustonen, Paola Zagami, **Péter Nagy**, Peter Nygren, Peter Asplund, Rasa Sabaliauskaite, Richard Rosenquist, Rui Henrique, Sahar Barjesteh van Waalwijk van Doorn-Khosrovani, Sigmund Brabrand, Simon Ekman, Soemeya Haj Mohammad, Sonata Jarmalaite, Tanja Juslin, Tiina Kahre, Tina Kringelbach, Tormod Guren, Ulrik Lassen, Vince Kornél Grolmusz, Xenia Villabour Alberu
High-throughput molecular assays for inclusion in personalised oncology trials – State-of-the-art and beyond
Journal of Internal Medicine (2024); 785–803. [Journal Link](#)

2. sz. melléklet – Publikációs lista

42. Ulrik Ringborg, Joachim von Braun, Julio Celis, Michael Baumann, Anton Berns, Alexander Eggermont, Edith Heard, Manuel Heitor, Mammen Chandy, Chien-Jen Chen, Alberto Costa, Francesco De Lorenzo, Edward M. De Robertis, Frederick Charles Dubee, Ingemar Ernberg, Mariya Gabriel, Åslaug Helland, Rui Henrique, Bengt Jönsson, Olli Kallioniemi, Jan Korbel, Mechthild Krause, Douglas R. Lowy, Olivier Michielin, **Péter Nagy**, Simon Oberst, Vincenzo Paglia, M. Iqbal Parker, Kevin Ryan, Charles L. Sawyers, Joachim Schüz, Katherine Silkaitis, Eric Solary, David Thomas, Peter Turkson, Elisabete Weiderpass, Huanming Yang
Strategies to decrease inequalities in cancer therapeutics, care and prevention
Molecular Oncology (2024) 18, 245-279. [PubMed Link](#)
41. Michael Boutros, Michael Baumann, Anna Bigas, Linda Chaabane, Julien Guérin, Jens Habermann, Aurelien Jobard, Pier Giuseppe Pelicci, Oliver Stegle, Giovanni Tonon, Alfonso Valencia, Eva Winkler, Patricia Blanc, Ruggero De Maria, Rene Medema, **Péter Nagy**, Josep Tabernero, and Eric Solary
UNCAN.eu: Toward a European Federated Cancer Research Data Hub
Cancer Discovery (2024) 14, 30-35. [PubMed Link](#)
40. Anke Wind, Simon Oberst, Willien Westerhuis, Harriet Blaauwgeers, Gunnar Sæter, Paolo de Paoli, **Péter Nagy**, Jean-Benoit Burrion, Eva Jolly, József Lovey, Wim van Harten
Evaluating Comprehensive Cancer Networks; a review of standards and evaluation methods for care networks to inform a comparison with the OECI comprehensive cancer network standards
Acta Oncologica (2023) 62, 15-24. [PubMed Link](#)
39. Eric Solary, Patricia Blanc, Michael Boutros, Charis Girvalaki, Franco Locatelli, Rene H Medema, **Péter Nagy**, Josep Tabernero
UNCAN.eu, a European initiative to UNDERstand CANcer
Cancer Discovery (2022) CD-22-0970. [PubMed Link](#)
38. Ulrik Ringborg, Anton Berns, Julio E. Celis, Manuel Heitor, Josep Tabernero, Joachim Schüz, Michael Baumann, Rue Henrique, Matti Aapro, Partha Basu, Regina Beets-Tan, Benjamin Besse, Fátima Cardoso, Fátima Carneiro, Guy van den Eede, Alexander Eggermont, Stefan Fröhling, Susan Galbraith, Elena Garralda, Douglas Hanahan, Bengt Jönsson, Olli Kallioniemi, Miklós Kásler, Eva Kondorosi, Jan Korbel, Denis Lacombe, José Carlos Machado, José M Martin-Moreno, Francoise Meunier, **Péter Nagy**, Paolo Nuciforo, Simon Oberst, Júlio Oliveira, Maria Papatriantafyllou, Walter Ricciardi, Alexander Roediger, Betina Ryll, Richard Schilsky, Raquel Seruca, Marta Soares, Karen Steindorf, Vincenzo Valentini, Emile Voest, Elisabete Weiderpass, Nils Wilking, Laurence Zitvogel
Meeting Report: the Porto European Cancer Research Summit 2021
Molecular Oncology (2021) 15, 2507-2543. [PubMed Link](#)
Molecular Oncology - Top downloaded Research Article
37. Sebastian Kehrloesser, Simon Oberst, Willien Westerhuis, Astrid Wendler, Anke Wind, Harriët Blaauwgeers, Jean-Benoit Burrion, **Péter Nagy**, Gunnar Saeter, Eva Gustafsson, Paolo De Paoli, József Lovey, Claudio Lombardo, Thierry Philip, Dominique de Valeriola, Marjet Docter, Femke Boomsma, Mahasti Saghatchian, Marek Svoboda, Irene Philip, Francesco Monetti, Henk Hummel, Gordon McVie, Renée Otter, Wim van Harten
Analysing the attributes of Comprehensive Cancer Centres and Cancer Centres across Europe to identify key hallmarks.
Molecular Oncology (2021) 15, 1277-1288. [PubMed Link](#)
36. Marjetka Jelenc, Maruška, Vidovič, Edit Marosi, **Péter Nagy**, Antonio Federici, Mateja Lamovšek, Tit Albreht
Governance in/of Cancer Care and Stewardship in Cancer Control: Creation of Definitions
Collegium antropologicum (2020) 44, 239-243.

2. sz. melléklet – Publikációs lista

35. Djoeke van Dale, Lidwien Lemmens, Marieke Hendriksen, Nella Savolainen, **Péter Nagy**, Edit Marosi, Michela Eigenmann, Ingrid Stegemann, Heather L Rogers
Recommendations for Effective Intersectoral Collaboration in Health Promotion Interventions: Results from Joint Action CHRODIS-PLUS Work Package 5 Activities
International Journal of Environmental Research and Public Health (2020) 17, E6474.
[PubMed Link](#)
34. Simon Oberst, Wim van Harten, Gunnar Sæter, Paolo de Paoli, **Péter Nagy**, Jean- Benoit Burrión, Jozsef Lovey, Thierry Philip (All authors contributed equally to the Results presented in this article)
100 European core quality standards for cancer care and research centres
Lancet Oncology (2020) 21, 1009-1011. [PubMed Link](#)
33. Anton Berns, Ulrik Ringborg , Julio E Celis , Manuel Heitor, Neil K Aaronson, Nancy Abou-Zeid, Hans-Olov Adami, Kathi Apostolidis, Michael Baumann, Alberto Bardelli, René Bernards, Yvonne Brandberg, Carlos Caldas, Fabien Calvo, Caroline Dive, Angelika Eggert, Alexander Eggermont, Carolina Espina, Frederik Falkenburg, Jérôme Foucaud, Douglas Hanahan, Ulrike Helbig, Bengt Jönsson, Mette Kalager, Sakari Karjalainen, Miklós Kásler, Pamela Kearns, Klas Kärre, Denis Lacombe, Francesco de Lorenzo, Françoise Meunier, Gerd Nettekoven, Simon Oberst, **Péter Nagy**, Thierry Philip, Richard Price, Joachim Schüz, Eric Solary, Peter Strang, Josep Tabernero, Emile Voest
Towards a Cancer Mission in Horizon Europe: recommendations
Molecular Oncology (2020) 14, 1589-1615. [PubMed Link](#)
32. Anke Wind, Joris van Dijk, Isabelle Nefkens, Wineke van Lent, **Péter Nagy**, Ernestas Janulionis, Tuula Helander, Francisco Rocha-Goncalves, 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](#)
31. 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, 237-244. [PubMed Link](#)
30. Krisztián Nagyiványi, Barna Budai, Krisztina Bíró, Fruzsina Gyergyay, László Noszek, Zsófia Kúronya, Hajnalka Németh, **Péter Nagy**, Lajos Géczi
Synergistic Survival: A New Phenomenon Connected to Adverse Events of First-Line Sunitinib Treatment in Advanced Renal Cell Carcinoma
Clinical Genitourinary Cancer (2016) 14, 314-322. [PubMed Link](#)
29. Adam Gondos, Lina Jansen, Jörg Heil, Andreas Schneeweiss, Adri C. Voogd, Jan Frisell, Irma Fredriksson, Ulla Johansson, Tove Filtenborg Tvedskov, Maj-Britt Jensen, Eva Balslev, Olaf Johan Hartmann-Johnsen, Milena Sant, Paolo Baili, Roberto Agresti, Tony van de Velde, Annegien Broeks, Jean-Marie Nogaret, Pierre Bourgeois, Michel Moreau, Zoltán Mátrai, Ákos Sávolt, **Péter Nagy**, Miklós Kásler, Petra Schrotz-King, Cornelia Ulrich, Hermann Brenner
Time trends in axilla management among early breast cancer patients: persisting major variation in clinical practice across European centers
Acta Oncologica (2016) 55, 712-719. [PubMed Link](#)

IV. SARS-COV-2 VILÁGJÁRVÁNY ÉS AZ OLTÁSI PROGRAM EPIDEMIOLÓGIAI VIZSGÁLATA

28. Gergő A Molnár, Zoltán Vokó, Gábor Sütő, György Rokszin, Dávid Nagy, György Surján, Orsolya Surján, **Péter Nagy**, István Kenessey, András Wéber, Mihály Pálosi, Cecília Müller, Miklós Kásler, István Wittmann*, Zoltan Kiss
Effectiveness of SARS-CoV-2 primary vaccines and boosters in patients with type 2 diabetes mellitus in Hungary (HUN-VE 4 Study)
BMJ Open Diabetes Research and Care (2024) 12, e003777 [Pubmed Link](#)
27. Lorinc Polivka, Istvan Valyi-Nagy, Zoltan Szekanecz, Krisztina Bogos, Hajnalka Vago, Anita Kamondi, Ferenc Fekete, Janos Szlavik, György Surjan, Orsolya Surlyan, **Péter Nagy**, Zsuzsa Schaff, Zoltan Kiss, Cecilia Müller, Miklos Kasler, Veronika Müller
Waning of SARS-Cov-2 vaccine effectiveness against delta variant in COPD patients
Vaccines (2023) 11, 1786 [PubMed Link](#)
26. Zoltán Kiss, István Wittmann, Lőrinc Polivka, György Surján, Orsolya Surján, Zsófia Barcza, Gergő Attila Molnár, Dávid Nagy, Veronika Müller, Krisztina Bogos, **Péter Nagy**, István Kenessey, András Wéber, Mihály Pálosi, János Szlavik, Zsuzsa Schaff, Zoltán Szekanecz, Cecília Müller, Miklós Kásler, Zoltán Vokó
Nationwide Effectiveness of First and Second SARS-CoV2 Booster Vaccines during the Delta and Omicron Pandemic Waves in Hungary (HUN-VE 2 Study)
Frontiers in Immunology (2022) 13, 905585 [PubMed Link](#)
25. Zoltán Kiss, István Wittmann, Lőrinc Polivka, György Surján, Orsolya Surján, Zsófia Barcza, Gergő Attila Molnár, Dávid Nagy, Veronika Müller, Krisztina Bogos, **Péter Nagy**, István Kenessey, András Wéber, Mihály Pálosi, János Szlavik, Zsuzsa Schaff, Zoltán Szekanecz, Cecília Müller, Miklós Kásler, Zoltán Vokó
Nationwide Effectiveness of First and Second SARS-CoV2 Booster Vaccines during the Delta and Omicron Pandemic Waves in Hungary (HUN-VE 2 Study)
Frontiers in Immunology (2022) 13, 905585 [PubMed Link](#)
24. Müller, Veronika, Lorinc Polivka, Istvan Valyi-Nagy, Alexandra Nagy, Zoltan Szekanecz, Krisztina Bogos, Hajnalka Vago, Anita Kamondi, Ferenc Fekete, Janos Szlavik, Jeno Elek, György Surján, Orsolya Surján, **Péter Nagy**, Zsuzsa Schaff, Cecília Müller, Zoltan Kiss, and Miklós Kásler.
Booster Vaccination Decreases 28-Day All-Cause Mortality of the Elderly Hospitalized Due to SARS-CoV-2 Delta Variant
Vaccines (2022) 10, 986 [PubMed Link](#)

V. EPIDEMIOLOGIAI TANULMÁNYOK A NEMZETI RÁKREGISZTER ADATBÁZISA ALAPJÁN

23. Zoltán Kiss, László Tamás Berki, Anikó Maráz, Zsolt Horváth, **Péter Nagy**, Ibolya Fábián, Valéria Kovács, György Rokszin, György Surján, Zsófia Barcza, István Kenessey, András Wéber, István Wittmann, Gergő Attila Molnár, Tamás G Szabó, Viktória Buga, Miklós Darida, Eugenia Karamousouli, Zsolt Abonyi-Tóth, Renáta Bertókné Tamás, Diána Viktória Fürtös, Krisztina Bogos, Judit Moldvay, Gabriella Gálffy, Lilla Tamási, Veronika Müller, Tibor Zoárd Krasznai, Gyula Ostoros, Zsolt Pápai-Székely, Gabriella Branyiczkiné Géczy, Lászlóné Hilbert, Csaba Polgár, Zoltán Vokó
Overall survival of hungarian cancer patients diagnosed between 2011 and 2019, based on a health insurance fund database
Cancers (2025) 17, 1670. [PubMed Link](#)
22. András Wéber, Zoltán Vokó, Zoltán Kiss, István Szatmári, Mária Dobozi, Petra Parrag, Ibolya Fábián, György Rokszin, **Péter Nagy**, Csaba Polgár and István Kenessey
The impact of life tables on age standardized net survival of real-life example databases
BMC Medical Research Methodology (2025) 25, 145 [PubMed Link](#)
21. Miklós Darida, Gábor László Rubovszky, Zoltán Kiss, Borbála Székely, Balázs Madaras, Zsolt Horváth, Judit Kocsis, István Sipőcz, Máté Várnai, Éva Balogh, Krisztina Kovács, Viktória Buga, Eugenia Karamousouli, Tamás G Szabó, György Rokszin, Ibolya Fábián, István Kenessey, András Wéber, **Péter Nagy**, Zsófia Barcza, Krisztina Bogos, Zoltán Vokó, Csaba Polgár
Improvement in Breast Cancer Survival Across Molecular Subtypes in Hungary Between 2011-2020: a Nationwide, Retrospective Study
Frontiers in Oncology (2025) [Link](#)
20. Petra Parrag, Mária Dobozi, István Szatmári, András Wéber, **Péter Nagy**, Csaba Polgár, István Kenessey
The pitfalls of lung cancer coding practices based on the evaluation of the National Cancer Registry
Magyar Onkológia (2024) 68, 115-123 [PubMed Link](#)
19. István Kenessey, István Szilágyi, Mária Dobozi, **Péter Nagy**, Csaba Polgár
The role of National Cancer Registry in the assessment of Hungarian cancer epidemiology
Orvosi Hetilap (2024) 165, 925-932. [PubMed Link](#)
18. Wéber András, Szatmári István, Dobozi Mária, Kéki Zsuzsanna, Hilbert Lászlóné, Branyiczkiné Géczy Gabriella, **Nagy Péter**, Kásler Miklós, Polgár Csaba, Kenessey István
County differences in incidence and mortality of malignant neoplasms in Hungary between 2005 and 2019
Magyar Onkológia (2024) 68, 95-112. [PubMed Link](#)
17. István Kenessey, Petra Parrag, Mária Dobozi, István Szatmári, András Wéber, Péter Nagy, Csaba Polgár
The epidemiology of lung cancer in Hungary based on the characteristics of patients diagnosed in 2018
Scientific Reports (2024), 14, Article number: 20064. [PubMed Link](#)
16. András Wéber, Jerome Vignat, Richa Shah, Eileen Morgan, Mathieu Laversanne, **Péter Nagy**, István Kenessey, Ariana Znaor
Global burden of bladder cancer mortality in 2020 and 2040 according to GLOBOCAN estimates
World Journal of Urology (2024) 42, 237. [PubMed Link](#)

2. sz. melléklet – Publikációs lista

15. András Wéber, Eileen Morgan, Margherita Pizzato, Jerome Vignat, Mathieu Laversanne, Margherita Pizzato, Harriet Rumgay, Deependra Singh, **Péter Nagy**, István Kenessey, Isabelle Soerjomataram, Freddie Bray
Lung cancer mortality in the wake of the changing smoking epidemic: a descriptive study of the global burden in 2020 and 2040
BMJ Open (2023) 13, e065303 [PubMed Link](#)
14. András Wéber, Mathieu Laversanne, **Péter Nagy**, István Kenessey, Isabelle Soerjomataram & Freddie Bray
Gains in life expectancy from decreasing cardiovascular disease and cancer mortality – an analysis of 28 European countries 1995–2019
European Journal of Epidemiology (2023) 38, 1141-1152. [PubMed Link](#)
13. István Kenessey, Attila Patócs, Mária Dobozi, **Péter Nagy**, Csaba Polgár
The epidemiology of primary brain malignancies
Magyar Onkológia (2023) 67, 279-287. [PubMed Link](#)
12. András Wéber, Les Mery, **Péter Nagy**, Csaba Polgár, Freddie Bray, István Kenessey
Evaluation of data quality at the Hungarian National Cancer Registry, 2000–2019
Cancer Epidemiology (2023) 82, 102306 [PubMed Link](#)
11. Zoltán Kiss, Krisztina Bogos, Lilla Tamási, Gyula Ostoros, Veronika Müller, Nóra Bittner, Veronika Sárosi, Aladár Vastag, Kata Knollmayer, Máté Várnai, Krisztina Kovács, Andrea Berta, István Köveskúti, Eugenia Karamousouli, György Rokszin, Zsolt Abonyi-Tóth, Zsófia Barcza, István Kenessey, András Weber, **Péter Nagy**, Petra Freyler-Fadgyas, Miklós Szócska, Péter Szegner, Lászlóné Hilbert, Gabriella Branyiczkiné Géczy, György Surján, Judit Moldvay, Zoltán Vokó, Gabriella Gálffy, Zoltán Polányi
Underlying reasons for post-mortem diagnosed lung cancer cases – A robust retrospective comparative study from Hungary (HULC study)
Frontiers in Oncology (2022) 12, 1032366. [PubMed Link](#)
10. Wéber András, Szatmári István, Dobozi Mária, Hilbert Lászlóné, Branyiczkiné Géczy Gabriella, **Nagy Péter**, Kásler Miklós, Polgár Csaba, Kenessey István
A Központi Statisztikai Hivatal halálozási adatainak összevetése a Nemzeti Rákregiszter adatbázisával. Egy adatösszekapcsolás tanulságai.
Orvosi Hetilap (2022) 163, 1481-1489. [PubMed Link](#)
9. Kenessey István, Szőke Georgina, Dobozi Mária, Szatmári István, Wéber András, Fogarassy György, **Nagy Péter**, Kásler Miklós, Polgár Csaba, Vathy-Fogarassy Ágnes
Comparison of Cancer Survival Trends in Hungary in the Periods 2001–2005 and 2011–2015 According to a Population-Based Cancer Registry
Pathology & Oncology Research (2022) 28, 1610668 [PubMed Link](#)
8. Parrag Petra, Wéber András, Liskay Gabriella, **Nagy Péter**, Kásler Miklós, Polgár Csaba, Kenessey István
A melanóma hazai morbiditási és mortalitási helyzete a XXI. század első két évtizedében
Magyar Onkológia (2022) 66, 94-99. [PubMed Link](#)
7. Kenessey István, Wéber András, Szilágyi István, **Nagy Péter**, Polgár Csaba, Kásler Miklós
Az orvosi kódtárak gyakorlati alkalmazása az onkológiában – szakmai útmutató a Nemzeti Rákregiszter tapasztalatai alapján
Magyar Onkológia (2022) 66, 4-10. [PubMed Link](#)
6. Kenessey István, **Nagy Péter**, Polgár Csaba
A rosszindulatú daganatok hazai epidemiológiai helyzete a XXI. század második évtizedében
Magyar Onkológia (2022) 66, 175-184. [PubMed Link](#)

**VI. ÁTMENETIFÉM KOMPLEXEK KÉPZŐDÉSÉNEK ÉS BOMLÁSÁNAK
KINETIKAI ÉS MECHANISZTIKUS VIZSGÁLATA
(PhD fokozatszerzéshez kötődő közlemények)**

5. Róbert Józai, Imre Beszeda, Attila Bényei, Andreas Fischer, Margit Kovács, Mikhail Maliarik, Péter Nagy, Andrey Shchukarev, Imre Tóth
Metal-metal bond or isolated metal centers? Reaction of $\text{Hg}(\text{CN})_2$ with square planar transition metal cyanides
Inorganic Chemistry (2005) 44, 9643-9651. [PubMed Link](#)
4. Péter Nagy, Andreas Fischer, Julius Glaser, Andrey Ilyukhin, Mikhail Maliarik, Imre Tóth
Solubility, Complex Formation and Redox Reactions in the $\text{Tl}_2\text{O}_3\text{-HCN/CN}^- \text{-H}_2\text{O}$ System. Crystal Structures of the Cyano Compounds: $\text{Tl}(\text{CN})_3 \cdot \text{H}_2\text{O}$, $\text{Na}[\text{Tl}(\text{CN})_4] \cdot 3\text{H}_2\text{O}$, $\text{K}[\text{Tl}(\text{CN})_4]$, $\text{Tl}^{\text{I}}[\text{Tl}^{\text{III}}(\text{CN})_4]$ and of $\text{Tl}_2\text{C}_2\text{O}_4$
Inorganic Chemistry (2005) 44, 2347-2357. [PubMed Link](#)
3. Péter Nagy, Róbert Józai, István Fábián, Imre Tóth, Julius Glaser
The Decomposition and Formation of the Platinum-Thallium Bond in the $[(\text{CN})_5\text{Pt-Tl}(\text{edta})]^{4-}$ Complex. Kinetics and Mechanism
Journal of Molecular Liquids (2005) 118/1-3, 195-207.
2. Péter Nagy, Imre Tóth, István Fábián, Mikhail Maliarik, Julius Glaser
Kinetics and Mechanism of Platinum-Thallium Bond Formation: The Binuclear $[(\text{CN})_5\text{Pt-Tl}(\text{CN})]^-$ and the Trinuclear $[(\text{CN})_5\text{Pt-Tl-Pt}(\text{CN})_5]^{3-}$ Complexes
Inorganic Chemistry (2004) 43, 5216-5221. [PubMed Link](#)
1. Péter Nagy, Imre Tóth, István Fábián, Mikhail Maliarik, Julius Glaser
Kinetics and Mechanism of Formation of the Platinum-Thallium Bond: The $[(\text{CN})_5\text{Pt-Tl}(\text{CN})_3]^{3-}$ Complex
Inorganic Chemistry (2003) 42, 6907-6914. [PubMed Link](#)