

**I. REAKTÍV KÉNSZÁRMAZÉKOK BIOKÉMIÁJA ÉS REDOX TUMORBIOLÓGIAI JELENTŐSEGE**

**i) Eredeti közlemények**

128. Klaudia Borbényi-Galambos, Katalin Erdélyi, Tamás Ditrói, Eszter Petra Jurányi, Noémi Szántó, Edward E. Schmidt, Dorottya Garai, Mihály Cserepes, Gabriella Liszkay, Erika Tóth, József Tóvári and **Péter Nagy\***  
*Realigned Transsulfuration Drives BRAF V600E-Targeted Therapy Resistance in Melanoma Cell Metabolism* (2024) in revision
127. Tamás Gáll, Dávid Pethő, Katalin Erdélyi, Virág Egri, Jázon György Balla, Annamária Nagy, Szilárd Póliska, Magnus Gram, Róbert Gábriel, **Péter Nagy**, József Balla, György Balla  
*Heme: A link between hemorrhage and retinopathy of prematurity progression*  
**Redox Biology** (2024) 76, 103316. [PubMed Link](#)
126. 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](#)
125. Tomas Majtan, Thomas Olsen, Jitka Sokolova, Jakub Krijt, Michaela Křížková, Tomoaki Ida, Tamás Ditrói, Hana Hansíkova, 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](#)
124. 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](#)
123. Theodora Panagaki, Lucia Janickova, Dunja Petrovic, Karim Zuhra, Tamás Ditrói, Eszter P. Jurányi, Olivier Bremer, Kelly Ascençao, 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*  
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## Nagy Péter – Publikációs lista

122. 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](#)
121. 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  
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**bioRxiv** (2024) [Preprint Link](#)
120. Erik Márk Orján, Eszter Sára Kormányos, Gabriella Mihalekné Für, Ágnes Dombi, Emese Réka Bílint, Zsolt Balla, Beáta Adél Balog, Ágnes Dágó, Ahmad Totonji, Zoárd István Bátkai, 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](#)
119. Tetsuro Matsunaga, Hirohito Sano, Katsuya Takita, Masanobu Morita , Shun Yamanaka, Tomohiro Ichikawa, Tadahisa Numakura, Tomoaki Ida, Minkyung Jung, Seiryo 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, **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](#)
118. Viktor Kožich, 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 H<sub>2</sub>S homeostasis*  
**Redox Biology** (2022) 58, 102517. [PubMed Link](#)
117. Ágnes Czikora, Katalin Erdélyi, Tamás Ditrói, Noémi Szántó, Eszter Petra Jurányi, Szilárd Szanyi, József Tóvári, Tamás Strausz, **Péter Nagy\***  
*Cystathione 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](#)
116. 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*  
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114. 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](#)
113. Jakub Krijt, Jitka Sokolová, Jan Šilhavý, Petr Mlejnek, Jan Kubovčík, František Liška, Hana Malinská, Martina Hüttl, Irena Marková, Michaela Křížková, Martha H Stipanuk, Tomáš Křížek, Tamas Ditrói, **Péter Nagy**, Viktor Kožich and Michal Pravenec  
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112. Zoltán Gombos, Erika Koltai, Ferenc Torma, Péter Bakonyi, Attila Kolonics, Dóra Aczél, Tamás Ditrói, **Péter Nagy**, Takuji Kawamura, Zsolt Radák  
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**International Journal of Molecular Sciences** (2021) 22, 7588. [PubMed Link](#)
111. 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 H<sub>2</sub>S metabolism*  
**Redox Biology** (2021) 38, 101800. [PubMed Link](#)
110. 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\***  
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**Science Advances** (2021) 7, eabe7006. [PubMed Link](#)
109. Virág Bogdándi, Tamás Ditrói, István Zoárd Bátkai, Zoltán Sándor, Magda Minnion, Anita Vasas, Klaudia Galambos, Péter Buglyó, Erika Pintér, Martin Feelisch, **Péter Nagy\***  
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**Antioxidants and Redox Signaling** (2020) 33, 1277-1294 [PubMed Link](#)
108. Lucía Álvarez, Valeria Suarez Vega, Christopher McGinity, Vinayak S. Khodade, John P. Toscano, **Péter Nagy**, Joseph Lin, Carmen Works, Jon M. Fukuto  
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107. 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  
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106. John L. Wallace, **Péter Nagy**, Troy D. Feener, Thibault Allain, Tamás Ditrói, David J. Vaughan, Marcelo N. Muscara, Gilberto de Nucci, Andre G. Buret  
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105. 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\***  
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102. Kozich Viktor, Ditrói Tamás, Sokolová Jitka, Křížková Michaela, Krijt Jakub, Ješina Pavel, **Nagy Péter\***  
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**British Journal of Pharmacology** (2019) 176, 594-606. [PubMed Link](#)
101. Virág Bogdáni, Tomoaki Ida, Thomas R Sutton, Christopher Bianco, Tamás Ditrói, Griehof 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\***  
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## ii) Könyvfejezetek

82. Dorottya Garai, Zoltán Pálinskás, József Balla, Anthony J. Kettle, **Péter Nagy**\*  
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79. **Péter Nagy**\*  
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## iii) Összefoglaló cikkek

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