

Gedeon Richter scientific publications 2020

Acute blockade of NR2C/D subunit-containing N-methyl-D-aspartate receptors modifies sleep and neural oscillations in mice

Pálfi Emese - Lévy György - Czurkó András - Lendvai Balázs - Kiss Tamás
J. Sleep Res. 2021. 30(4): e13257.

Antimicrobial, Antioxidant and Antiproliferative Secondary Metabolites from *Inonotus nidus-pici*

Garádi Zsófia - Dékány Miklós - Móricz Ágnes M. - Gaál Anikó - Papp Viktor - Béni Szabolcs - Ványolós Attila
Molecules 2021. 26(18): Article number 5453.

Biosimilar mAb development - quality similarity considerations

Urbányi Zoltán
GaBI J. online 2021.

C-N Bond Formation by Consecutive Continuous-Flow Reductions towards A Medicinally Relevant Piperazine Derivative

Fülöp Zsolt - Bana Péter - Greiner István - Éles János
Molecules 2021. 26(7): 2040.

Characterization of a primate blood-brain barrier co-culture model prepared from primary brain endothelial cells, pericytes and astrocytes

Watanabe, Daisuke - Nakagawa, Shinsuke - Morofuji, Yoichi - Tóth Andrea E. - Vastag Mónika - Aruga, Jun - Niwa, Masami - Deli Mária Anna
Pharmaceutics 2021. 13(9): Article number 1484.

Comparison of two levonorgestrel-releasing intrauterine systems for the treatment of heavy menstrual bleeding: a randomised, controlled, phase 3 trial

Ilyin, Alexey B. - Khasanov, Albir A. - Suturina, Larisa V. - Borisova, Natalia I. - Reshetov, Zakhar S. - Foidart, Jean-Michel - Déri Judit Alexandra - Tóth Vera
Eur. J. Contracept. Reprod. Health Care 2021. 26(6): 491-498.

Computer-assisted UHPLC method development and optimization for the determination of albendazole and its related substances

Ferencz Elek - Kelemen Éva Katalin - Obreja, Mona - Sipos Emese - Vida Sára - Urkon Melinda - Szabó Zoltán István
J. Pharm. Biomed. Anal. 2021. 203: Article number 114203.

Contribution of analog signaling to neurotransmitter interactions and behavior: Role of transporter-mediated nonquantal dopamine release

Román Viktor - Kedves Rita - Kelemen Kristóf - Némethy Zsolt - Sperlág Beáta - Lendvai Balázs - Vizi E. Szilveszter
Physiol. Rep. 2021. 9(21): e15088.

Controlling the selectivity of aminergic GPCR ligands from the extracellular vestibule

Egyed Attila - Kelemen Ádám A. - Vass Márton - Visegrády András - Thee, Stephanie A. - Wang, Zhiyong - de Graaf, Chris - Brea, Jose - Loza, María Isabel - Leurs, Rob - Keserű György Miklós
Bioorg. Chem. 2021. 111: Article number 104832.

Converging Evidence on D-Amino Acid Oxidase-Dependent Enhancement of Hippocampal Firing Activity and Passive Avoidance Learning in Rats

Nagy Lili Veronika - Bali Zsolt Kristóf - Kapus Gábor - Pelsőczy Péter - Farkas Bence - Lendvai Balázs - Lévay György - Hernádi István
Int. J. Neuropsychopharmacol. 2021. 24(5): 434-445.

Culturing and Scaling up Stem Cells of Dental Pulp Origin Using Microcarriers

Földes Anna - Reider, Hajnalka - Varga Anita - S. Nagy Krisztina - Perczel-Kovach Katalin - Kis-Petik Katalin - DenBesten, Pamela - Ballagi András - Varga Gábor
Polymers 2021. 13(22): Article number 3951.

Deciphering the scopolamine challenge rat model by preclinical functional MRI

Somogyi Gergely - Hlatky Dávid - Spisák Tamás - Spisák Zsófia - Nyitrai Gabriella - Czurkó András
Sci. Rep. 2021. 11(1): Article number 10873.

Delay-dependent cholinergic modulation of visual short-term memory in rhesus macaques

Knakker Balázs - Oláh Vilmos - Trunk Attila - Lendvai Balázs - Lévay György - Hernádi István
Behav. Brain Res. 2021. 396: 112897.

Development of biotherapeutics and biosimilars

Urbányi Zoltán
Drug Discov. Today Technol. 2021. 40: 1-2.

Development of Continuous Crystallization Process of Spironolactone Hydrate Form with a Turbidity-Based Level Control Method

Bosits Miklós Hunor - Hoffmanné Szalay Zsófia - Pataki Hajnalka - Marosi György János - Demeter Ádám
Org. Process Res. Dev. 2021. 25(4): 760-768.

Discovery of novel positive allosteric modulators of the alpha7 nicotinic acetylcholine receptor: Scaffold hopping approach

Ledneczki István - Tapolcsányi Pál - Gábor Eszter - Visegrády András - Vass Márton - Éles János - Holm, Patrik - Horváth Anita - Pocsai Anikó - Mahó Sándor - Greiner István - Krámos Balázs - Béni Zoltán - Kóti János - Káncz Anna Erzsébet - Thán Márta - Kolok Sándor - Laszy Judit - Balázs Ottilia - Bugovics Gyula - Nagy József - Vastag Mónika - Szájli Ágota - Bozó Éva - Lévay György - Lendvai Balázs - Némethy Zsolt
Eur. J. Med. Chem. 2021. 214: Article number 113189.

Diversity-oriented synthesis through gamma radiolysis: Preparation of unusual ecdysteroid derivatives activating Akt and AMPK in skeletal muscle cells

Issaadi, Halima Meriem - Béni Zoltán - Tóth Tünde - Dékány Miklós - Hsieh, Tusty-Jiuan - Balogh György Tibor - Hunyadi Attila
Bioorg. Chem. 2021. 112: Article no. 104951.

Drugs becoming generics - The impact of genericization on the market performance of antihypertensive active pharmaceutical ingredients

Kovács Bence - Darida Miklós - Simon Judit
Int. J. Environ. Res. Public Health 2021. 18(18): Article number 9429.

Fragment-Based Optimization of Dihydropyrazino-Benzimidazolones as Metabotropic Glutamate Receptor-2 Positive Allosteric Modulators against Migraine

Szabó György - Erdélyi Péter - Kolok Sándor - Vastag Mónika - Halász Attila Sándor - Kis-Varga Ágnes - Lévay György István - Béni Zoltán - Kóti János - Greiner István - Keserű György Miklós
J. Med. Chem. 2021. 64(12): 8607-8620.

HTS-based discovery and optimization of novel positive allosteric modulators of the alpha7 nicotinic acetylcholine receptor

Ledneczki István - Horváth Anita - Tapolcsányi Pál - Éles János - Dudás Molnár Katalin - Vágó István - Visegrády András - Kiss László - Szigetvári Áron - Kóti János - Krámos Balázs - Mahó Sándor - Holm, Patrik - Kolok Sándor - Fodor László - Thán Márta - Kostyalik Diána - Balázs Ottilia - Vastag Mónika - Greiner István - Lévy György - Lendvai Balázs - Némethy Zsolt
Eur. J. Med. Chem. 2021. 222: 113560.

Integrated twin-screw wet granulation, continuous vibrational fluid drying and milling: A fully continuous powder to granule line

Fülöp Gergő - Domokos András - Galata Dorián - Szabó Edina - Gyürkés Martin - Szabó Bence - Farkas Attila - Madarász Lajos - Démuth Balázs - Lendér Tibor - Nagy Tibor - Kovács-Kiss Dorottya - van der Gucht, Filip - Marosi György János - Nagy Zsombor Kristóf
Int. J. Pharm. 2021. 594: 120126.

A Mechanistic Study on the Formation of Dronic Acids

Ábrányi-Balogh Péter - Greiner István - Keglevich György
Molecules 2021. 26(24): Article number 7587.

Method development for the clearance study of the Pluronic F-68 nonionic surfactant used in the upstream process of monoclonal antibody production

Sávoly Zoltán - Szilágyi Enikő - Bihari Zsolt - Szabados Hajnalka
J. Pharm. Biomed. Anal. 2021. 204: Article number 114249.

Neuronal Dopamine D3 Receptors: Translational Implications for Preclinical Research and CNS Disorders

Kiss Béla - Laszlovszky István - Krámos Balázs - Visegrády András - Bobok Amrita - Lévy György - Lendvai Balázs - Román Viktor
Biomolecules 2021. 11(1): 104.

Novel Ring Systems: Spiro[Cycloalkane] Derivatives of Triazolo- and Tetrazolo-Pyridazines

Sepsey Für Csilla - Riszter Gergő - Szigetvári Áron - Dékány Miklós - Keglevich György - Hazai László - Bölcskei Hedvig
Molecules 26(8): 2140.

On the utility of nonuniformly sampled two-dimensional NMR spectra in the pharmaceutical industry

Szigetvári Áron - Szántay Csaba, ifj.
Magn. Reson. Chem. 2021. 59(3): 264-286.

Palladium-catalysed amino- vs. Alkoxyacylation of iodoalkenes using bifunctional N,O-nucleophiles

Mikle Gábor - Noveczky Péter - Mahó Sándor - Kollár László
Tetrahedron 2021. 85: Article number 132050.

Qualitative and Quantitative Phytochemical Analysis of Ononis Hairy Root Cultures

Gampe Nóra - Szakács Zoltán László - Darcsi András - Boldizsár Imre - Szőke Éva - Kuzovkina, Inna - Kursinszki László - Béni Szabolcs
Front. Plant Sci. 2021. 11: Article number 622585.

Quality similarity-driven development of biosimilar monoclonal antibodies

Urbányi Zoltán

Drug Discov. Today Technol. 2021. 38: 1-8.

Risk of dosing errors in ART treatment: user experience of single- vs multi-use follitropin alfa pens

Saunders, Helen - Bjärgestad Lamp, Linda - Donat, Hasan - Messner, Monja - Reder, Maren -

Kendrew, Helen

Expert Opin. Drug Deliv. 2021. 18(5): 643-654.

Structural characterization of fondaparinux interaction with per-6-amino-beta-cyclodextrin: An NMR and MS study

Várnai Bianka - Grabarics Márkó - Szakács Zoltán - Pagel, Kevin - Malanga, Milo - Sohajda Tamás - Béni Szabolcs

J. Pharm. Biomed. Anal. 2021. 197: Article number 113947.

Successful Drug Discovery (Volume 5)

Edited by János Fischer - Christian Klein - Wayne E. Childers

300 p., 2021., Wiley-VCH, Weinheim

Synthesis and Characterization of New V1A Antagonist Compounds: The Separation of Four Atropisomeric Stereoisomers

Szeleczy Zsolt - Szakács Zoltán - Bozó Éva - Baska Ferenc - Vukics Krisztina - Lévai Sándor - Temesvári Krisztina - Vass Elemér - Béni Zoltán - Krámos Balázs - Magdó Ildikó - Szántay Csaba, ifj. - Kóti János - Domány-Kovács Katalin - Greiner István - Bata Imre

J. Med. Chem. 2021. 64(14): 10445-10468.

Synthesis of aminated-type Liliun candidum alkaloids and lilaline; determination of their relative configuration by the concerted use of NMR spectroscopy and DFT conformational analysis

Nagy Sándor - Szigetvári Áron - Ilkei Viktor - Krámos Balázs - Béni Zoltán - Szántay Csaba, ifj. - Hazai László

Tetrahedron 2021. 81: Article number 131827.

Synthesis of C3-Symmetric Cinchona-Based Organocatalysts and Their Applications in Asymmetric Michael and Friedel-Crafts Reactions

Kisszékelyi Péter - Fehér Zsuzsanna - Nagy Sándor - Bagi Péter - Kozma Petra - Garádi Zsófia - Dékány Miklós - Huszthy Péter - Mátravölgyi Béla - Kupai József

Symmetry 2021. 13(3): Article number 521.

Synthesis of novel pregnane-based 20-carboxamides via palladium-catalysed aminocarbonylation

Miklé Gábor - Zugó Alexandra - Szatnik Erzsébet - Maxim Anita - Mahó Sándor - Kollár László

Chem. Pap. 2021. 75(5): 1861-1867.

Synthesis of Spiro[cycloalkane-pyridazinones] with High Fsp3 Character Part 2.

Sepsey Für Csilla - Horváth Eszter Judit - Szigetvári Áron - Dékány Miklós - Hazai László - Keglevich György - Bölcskei Hedvig

Lett. Org. Chem. 2021. 18(5): 373-381.

A Temperature-Controlled Switch between Fürst-Plattner Rule and Anti-Fürst-Plattner Rule Ring Opening of 2,3-Epoxy-steroids with Various Halide Sources in the Presence of Imidazolium Ionic Liquids

Horváth Anita - Bolla Kristóf - Wachtler Alexandra - Maksó Lilla - Papp Máté - Mahó Sándor - Dubrovay Zsófia - Kóti János - Skodáné Földes Rita

ACS Omega 2021. 6(41): 26846-26856.

Theoretical Design, Synthesis, and in Vitro Neurobiological Applications of a Highly Efficient Two-Photon Caged GABA Validated on an Epileptic Case

Chiovini Balázs - Pálfi Dénes - Majoros Myrtil - Juhász Gábor - Szalay Gergely - Katona Gergely - Szőri Milán - Frigyesi Orsolya - Lukácsné Haveland Csilla - Szabó Gábor - Erdélyi Ferenc - Máté Zoltán - Szadai Zoltán - Madarász Miklós - Dékány Miklós - Csizmadia Imre G. - Kovács Ervin - Rózsa Balázs - Mucsi Zoltán

ACS Omega 2021. 6(23): 15029-15045.

Transendothelial Electrical Resistance Measurement across the Blood–Brain Barrier: A Critical Review of Methods

Vigh Judit P. - Kincses András - Ozgür, Burak - Walter Fruzsina R. - Santa-Maria, Ana Raquel - Valkai Sándor - Vastag Mónika - Neuhaus, Winfried - Brodin, Birger - Dér András - Deli Mária Anna

Micromachines 2021. 12(6): Article number 685.

Triterpenes and Phenolic Compounds from the Fungus *Fuscoporia torulosa*: Isolation, Structure Determination and Biological Activity

Béni Zoltán - Dékány Miklós - Sárközi András - Kincses Annamária - Spengler Gabriella - Papp Viktor - Hohmann Judit - Ványolós Attila

Molecules 2021. 26(6):1657.