

Gedeon Richter scientific publications 2015

**Advanced development strategies for biopharmaceutical cell culture processes**

Zalai Dénes - Golabgir, Aydin - Wechselberger, Patrick - Herwig, Christoph

Curr. Pharmaceut. Biotechnol. 2015. 16(11): 983-1001.

**The Adventurous Discovery of the Structure of a Novel Vincristine Impurity**

Dubrovay Zsófia - Háda Viktor

Anthropic Awareness, 367-376 p., 2015., Elsevier, Amsterdam

**An "Anthropic" Modus Operandi of Structure Elucidation by NMR and MS : AA in What-Science: Small-Molecule Structure Elucidation by NMR and MS (Are you Sure you have Found the Correct Structure and not an Apparently Correct Structure?)**

Szántay Csaba, ifj.

Anthropic Awareness, 231-256 p., 2015., Elsevier, Amsterdam

**An "Anthropically" Flavored Look at Some Basic Aspects of NMR Spin Physics Using a Classical Description: AA in Why-Science: Examples from NMR Theory (If you Think you Know NMR, Think Again)**

Szántay Csaba, ifj.

Anthropic Awareness, 97-140 p., 2015., Elsevier, Amsterdam

**An Elusive Degradation Product of Ziprasidone**

Szakács Zoltán - Kóti János

Anthropic Awareness, 377-389 p., 2015., Elsevier, Amsterdam

**An interpretation of the rate enhancing effect of microwaves - modelling the distribution and effect of local overheating - a case study**

Keglevich György - Greiner István - Mucsi Zoltán

Curr. Org. Chem. 2015. 19(14): 1436-1440.

**Analysis of Edg-Like LPA receptor-ligand interactions**

Balogh Balázs - Pázmány Tamás - Mátyus Péter

Curr. Pharmaceut. Des. 2015. 21(24): 3533-3547.

**Anthropic Awareness : The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry**

Edited by Szántay Csaba, ifj.

442 p., 2015., Elsevier, Amsterdam

**Application of quantum chemistry for the interpretation of vibrational spectra**

Billes Ferenc - Ziegler Ildikó - Mikosch, Hans

Struct. Chem. 2015. 26(5-6): 1703-1714.

**Attitude of patients and customers regarding purchasing drugs online**

Székely Pál - Kelemen László József - Fittler András - Hancu, Gabriel - Finta Hajnal - Ciurba Adriana -

Sipos Emese - Botz Lajos

Farmacia 2015. 63(1): 93-98.

**Believe It or Not: Carbon Protonation of the Pyrimidine Ring**

Demeter Ádám

Anthropic Awareness, 417-431 p., 2015., Elsevier, Amsterdam

**Bisindole alkaloids condensed with a cyclopropane ring, Part 2. Cyclopropano-vinorelbine and its derivatives**

Keglevich Péter - Hazai László - Dubrovay Zsófia - Sánta Zsuzsanna - Dékány Miklós - Szántay Csaba, ifj. - Kalaus György

Heterocycles 2015. 90(1): 316-326.

**Capillary isoelectric focusing method development and validation for investigation of recombinant therapeutic monoclonal antibody**

Suba Dávid - Urbányi Zoltán - Salgó András

J. Pharmaceut. Biomed. Anal. 2015. 114: 53-61.

**The Case of an Emotion- and Emotycs-Laden Structure Determination of a Small Synthetic Molecule with an Unexpected Structure**

Sánta Zsuzsanna - Háda Viktor

Anthropic Awareness, 391-399 p., Elsevier, Amsterdam

**Cell-based and virtual fragment screening for adrenergic alpha2C receptor agonists**

Szóllősi-Szitás Edit - Bobok Amrita Ágnes - Kiss László - Vass Márton - Kurkó Dalma - Kolok Sándor - Visegrády András - Keserű György Miklós

Bioorg. Med. Chem. 2015. 23(14): 3991-3999.

**Chlamydial conjunctivitis: Prevalence and serovar distribution of Chlamydia trachomatis in adults**

Petrovay Fruzsina - Németh István - Balázs Andrea - Balla Eszter

J. Med. Microbiol. 2015. 64(9): 967-970.

**The clinical pharmacology and pharmacokinetics of ulipristal acetate for the treatment of uterine fibroids**

Pohl, Oliver - Zobrist, R. Howard - Gotteland, Jean-Pierre

Reprod. Sci. 2015. 22(4): 476-483.

**Combining Mechanistic and Data-Driven Approaches to Gain Process Knowledge on the Control of the Metabolic Shift to Lactate Uptake in a Fed-Batch CHO Process**

Zalai Dénes - Koczka Krisztina - Párta László - Wechselberger, Patrick - Klein, Tobias - Herwig, Christoph

Biotechnol. Prog. 2015. 31(6): 1657-1668.

**Comparison of directly compressed vitamin B12 tablets prepared from micronized rotary-spun microfibers and cast films**

Sebe István - Bodai Zsolt - Eke Zsuzsanna - Kállai-Szabó Barnabás - Szabó Péter - Zelkó Romána

Drug. Dev. Ind. Pharm. 2015. 41(9): 1438-1442.

**Comparison of static and dynamic sonication as process intensification for particle size reduction using a factorial design**

Bartos Csilla - Kukovecz Ákos - Ambrus Rita - Farkas Gabriella - Radacs Norbert - Szabóné Révész Piroska

Chem. Eng. Process. 2015. 87: 26-34.

**Computer-Assisted Structure Elucidation in NMR**

Béni Zoltán - Szakács Zoltán - Sánta Zsuzsanna

Anthropic Awareness, 317-354 p., 2015., Elsevier, Amsterdam

**Different pH-sensitivity patterns of 30 sodium channel inhibitors suggest chemically different pools along the access pathway**

Lázár Alexandra - Lenkey Nőra - Pesti Krisztina - Fodor László - Mike Árpád

Front. Pharmacol. 2015. 6(Sep): art. no. 210.

**Differential regulation of metabolic parameters by energy deficit and hunger**

Kitka Tamás - Tuza Sebestyén - Varga Balázs - Horváth Csilla - Kovács Péter

Metabolism Clin. Exp. 2015. 64(10): 1235-1239.

**Dynamics and structural determinants of ligand recognition of the 5-HT6 receptor**

Vass Márton - Jójárt Balázs - Bogár Ferenc - Paragi Gábor - Keserű György Miklós - Tarcsey Ákos

J. Comput. Aided Mol. Des. 2015. 29(12): 1137-1149.

**Effect of a kynurenic acid analog on home-cage activity and body temperature in rats**

Kassai Ferenc - Kedves Rita - Gyertyán István - Tuka Bernadett - Fülöp Ferenc - Toldi József - Lendvai

Balázs - Vécsei László

Pharmacol. Rep. 2015. 67(6): 1188-1192.

**Efficient synthesis of benzidronate applying of phosphorous trichloride and phosphorous acid**

Grün Alajos - Kovács Rita - Nagy Dávid Illés - Garadnay Sándor - Greiner István - Keglevich György

Lett. Drug Design Discov. 2015. 12(1): 78-84.

**Endocytosis of fluorescent cyclodextrins by intestinal Caco-2 cells and its role in paclitaxel drug delivery**

Réti-Nagy Katalin - Malanga, Milo - Fenyvesi Éva - Szente Lajos - Vámosi György - Váradi Judit -

Bácskay Ildikó - Fehér Pálma - Ujhelyi Zoltán - Róka Eszter - Vecsernyés Miklós - Balogh György Tibor -

Vasvári Gábor - Fenyvesi Ferenc

Int. J. Pharm. 2015. 496(2): 509-517.

**Environmentally friendly chemistry with organophosphorus syntheses in focus**

Keglevich György - Grün Alajos - Bagi Péter - Bálint Erika - Kiss Nőra Zs. - Kovács Rita - Jablonkai

Erzsébet - Kovács Tamara - Fogassy Elemér - Greiner István

Per. Polytechn. Chem. Eng. 2015. 59(1): 82-95.

**Formulation and Stability Aspects of Nanosized Solid Drug Delivery Systems**

Szabó Péter - Zelkó Romána

Curr. Pharmaceut. Design 2015. 21(22): 3148-3157.

**Fragment-Based Methods in Drug Design**

Vass Márton - Makara Gergely M. - Keserű György Miklós

In silico Drug Discovery and Design: Theory, Methods, Challenges and Applications, Chapter 14, 353-389 p., CRC Press

**Green Chemical Synthesis of Bisphosphonic/Dronic Acid Derivatives**

Keglevich György - Grün Alajos - Kovács Rita - Garadnay Sándor - Greiner István

Phosphorus Sulfur Silicon Relat. Elem. 2015. 190(5-6): 664-667.

**Identification in drug quality control and drug research**

Görög Sándor

Trends Anal. Chem. 2015. 69: 114-122.

**Impact of apoptosis on the on-line measured dielectric properties of CHO cells**

Zalai Dénes - Tobak Teodóra - Putics Ákos

Bioprocess Biosyst. Eng. 2015. 38(12): 2427-2437.

**Improvement of mechanical properties of pellet containing tablets by thermal treatment**

Csobán Zsombor - Kállai-Szabó Barnabás - Kállai-Szabó Nikolett - Sebe István - Gordon Péter - Antal István

Int. J. Pharm. 2015. 496(2):489-96.

**In vitro dissolution-permeation evaluation of an electrospun cyclodextrin-based formulation of aripiprazole using microFlux(TM)**

Borbás Enikő - Balogh Attila - Bocz Katalin - Müller Judit - Kiserdei Éva - Vigh Tamás - Sinkó Bálint - Marosi Attila - Halász Attila Sándor - Dohányos Zoltán - Szente Lajos - Balogh György Tibor - Nagy Zsombor Kristóf

Int. J. Pharmaceut. 2015. 491(1-2): 180-189.

**Incorporating small molecules or biologics into nanofibers for optimized drug release: A review**

Sebe István - Szabó Péter - Kállai-Szabó Barnabás - Zelkó Romána

Int. J. Pharmaceut. 2015. 494(1): 516-530.

**Is there a link between selectivity and binding thermodynamics profiles?**

Tarczay Ákos - Keserű György Miklós

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**Limitation of Cell Elongation in Barley (*Hordeum vulgare L.*) Leaves Through Mechanical and Tissue-Hydraulic Properties**

Touati, Mostefa - Knipfer, Thorsten - Visnovitz Tamás - Kameli, Abdelkrim - Fricke, Wieland

Plant Cell Physiol. 2015. 56(7): 1364-1373.

**A model lacking relevant literature comparison**

Balogh György Tibor - Müller Judit - Könczöl Árpád

J. Pharm. Biomed. Anal. 2015. 104: 47-48.

**Mössbauer study of the effect of pH on Fe valence in iron-polygalacturonate as a medicine for human anaemia**

Kuzmann Ernő - Garg, V.K. - De Oliveira, A.C. - Klencsár Zoltán - Szentmihályi Klára - Fodor Judit - May

Zoltán - Homonnay Zoltán

Radiat. Phys. Chem. 2015. 107: 195-198.

**MS Methodological Overview**

Háda Viktor - Dékány Miklós

Anthropic Awareness, 291-315 p., 2015., Elsevier, Amsterdam

**Multistep Continuous-Flow Synthesis of Condensed Benzothiazoles**

Lövei Klára - Greiner István - Éles János - Szigetvári Áron - Dékány Miklós - Lévai Sándor - Novák

Zoltán - Túrósz György István

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**Nanostructure of PDMS-TEOS-PrZr hybrids prepared by direct deposition of gamma radiation energy**

Lancastre, Joana J.H. - Falcao, Antonio N. - Margaca, Fernanda M.A. - Ferreira, Luis M. - Miranda Salvado, Isabel M. - Almásy László - Casimiro, Maria H. - Meiszterics Anikó Appl. Surface Sci. 2015. 352: 91-94.

**New approach of sucrose myristate as a promising penetration enhancer in dermal preparations**

Balázs Boglárka - Csizmazia Eszter - Berkó Szilvia - Budai-Szűcs Mária - Szabóné Révész Piroska - Csányi Erzsébet Tenside Surfact. Deterg. 2015. 52(5): 375-379.

**NMR Methodological Overview**

Szakács Zoltán. - Sánta Zsuzsanna Anthropic Awareness, 257-289 p., 2015., Elsevier, Amsterdam

**Nőgyógyászati célra szánt, hormontartalmú implantátumok fejlesztési lehetőségeinek áttekintése: irodalmi áttekintés / Development possibilities of hormone-containing implants for gynecological applications: A review**

Szabó Péter - Kovács-Kiss Dorottya - Zelkó Romána Acta Pharmaceut. Hung. 2015. 85(4): 131-138.

**A novel GABA(A) alpha 5 receptor inhibitor with therapeutic potential**

Ling István - Mihalik Balázs - Hetherington, Lori-An - Kapus Gábor - Pálvölgyi Adrienn - Gigler Gábor - Kertész Szabolcs - Gaál Attila - Pallagi Katalin - Kiricsi Péter - Szabó Éva - Szénási Gábor - Papp Lilla - Hárssing László G. Jr. - Lévay György - Spedding, Michael - Lambert, Jeremy J. - Belelli, Delia - Barkóczy József - Volk Balázs - Simig Gyula - Gacsályi István - Antoni Ferenc Eur. J. Pharmacol. 2015. 764: 497-507.

**A novel method for the preparation of a chiral stationary phase containing an enantiopure acridino-18-crown-6 ether selector**

Németh Tamás - Lévai Sándor - Földi Tamás - Kupai József - Túró György István - Tóth Tünde - Huszthy Péter - Balogh György Tibor J. Chromatogr. Sci. 2015. 53(3): 431-435.

**On the Nature of the RF Driving Field in NMR (with a Lookout on Optical Rotation)**

Szántay Csaba, ifj. Anthropic Awareness, 213-228 p., 2015., Elsevier, Amsterdam

**Palladium-Catalyzed Diaminocarbonylation: Synthesis of Androstene Dimers Containing 3,3'- or 17,17'-Dicarboxamide Spacers**

Kiss Mercédesz - Mahó Sándor - Böddi Katalin - Boros Borbála - Kollár László Monatsh. Chem. 2015. 146(2): 357-364.

**Phenylalanine Ammonia-Lyase-Catalyzed Deamination of an Acyclic Amino Acid: Enzyme Mechanistic Studies Aided by a Novel Microreactor Filled with Magnetic Nanoparticles**

Weiser Diána - Bencze László Csaba - Bánóczi Gergely - Ender Ferenc - Kiss Róbert - Kókai Eszter - Szilágyi András - Vértessey G. Beáta - Farkas Ödön - Paizs Csaba - Poppe László ChemBioChem 2015. 16(16): 2283-2288.

**The Philosophy of "Anthropic Awareness" in Scientific Thinking: "Anthropic Awareness (AA)" (Mind your mind!)**

Szántay Csaba, ifj.

Anthropic Awareness, 3-93 p., 2015., Elsevier, Amsterdam

**Predictive validity of endpoints used in electrophysiological modelling of migraine in the trigeminovascular system**

Farkas Bence - Kardos Péter - Orosz Szabolcs - Tarnawa István - Csekő Csongor - Lévay György - Farkas Sándor - Lendvai Balázs - Kovács Péter  
Brain Res. 2015. 1625: 287-300.

**Rational Synthesis of Dronic Acid Derivatives**

Keglevich György - Grün Alajos - Garadnay Sándor - Greiner István  
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**The RF Pulse and the Uncertainty Principle**

Szántay Csaba, ifj.  
Anthropic Awareness, 173-211 p., 2015., Elsevier, Amsterdam

**Self-Induced Recognition of Enantiomers (SIRE) in NMR Spectroscopy**

Szántay Csaba, ifj. - Demeter Ádám  
Anthropic Awareness, 401-415 p., 2015., Elsevier, Amsterdam

**Simple correction improving long-term reproducibility of HPLC-MS**

Tóth Eszter - Hevér Helga - Ozohanics Olivér - Telekes András - Vékey Károly - Drahos László  
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**A simple synthesis of bannucine and 5'-epibannucine from (-)-vindoline**

Ilkei Viktor - Bana Péter - Tóth Flórián - Palló Anna - Holczbauer Tamás - Czugler Mátyás - Sánta Zsuzsanna - Dékány Miklós - Szigetvári Áron - Hazai László - Szántay Csaba, ifj. - Kalaus György  
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**Simultaneous Targeting of Fc $\gamma$ Rs and Fc $\alpha$ RI Enhances Tumor Cell Killing**

Brandsma, Arianne M. - ten Broeke, Toine - Nederend, Maaike - Meulenbroek, Laura A.P.M. - van Tetering, Geert - Meyer, Saskia - Jansen, J.H. Marco - Buitrago, M. Alejandra Beltrán - Nagelkerke, Sietse Q. - Németh István - Ubink, Ruud - Rouwendal, Gerard - Lohse, Stefan - Valerius, Thomas - Leusen, Jeanette H.W. - Boross Péter  
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**Structure Elucidation of a Mysterious Trace Component of Ulipristal Acetate**

Béni Zoltán  
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**Studies of a pyridino-crown ether-based chiral stationary phase on the enantioseparation of biogenic chiral aralkylamines and alpha-amino acid esters by high-performance liquid chromatography**

Lévai Sándor - Németh Tamás - Földi Tamás - Kupai József - Tóth Tünde - Huszthy Péter - Balogh György Tibor  
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**Study of sodium hyaluronate-based intranasal formulations containing micro- or nanosized meloxicam particles**

Bartos Csilla - Ambrus Rita - Sipos Péter - Budai-Szűcs Mária - Csányi Erzsébet - Gáspár Róbert - Márki Árpád - Seres Adrienn B. - Sztojkov-Ivanov Anita - Horváth Tamás - Szabóné Révész Piroska  
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**The subcellular compartmentalization of TGFbeta-RII and the dynamics of endosomal formation during the signaling events: An in vivo study on rat mesothelial cells**

Balogh Petra - Magyar Márton - Szabó Arnold - Müllner Nándor - Likó István - Patócs Attila - Kiss Anna L.  
Eur. J. Cell Biol. 2015. 94(5): 204-213.

**Synthesis and cation binding of acridono-18-crown-6 ether type ligands (Erratum to: Synthesis and cation binding of acridono-18-crown-6 ether type ligands)**

Németh Tamás - Kormos Attila - Tóth Tünde - Balogh György Tibor - Huszthy Péter  
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**Synthesis and enantioselective transport studies of optically active lipophilic proton-ionizable crown ethers containing a diarylphosphinic acid unit**

Szabó Tamás - Hirsch Edit - Tóth Tünde - Müller Judit - Riethmüller Eszter - Balogh György Tibor - Huszthy Péter  
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**Synthesis of N,N-Bis(dialkoxyphosphinylmethyl)- And N,N-Bis(diphenylphosphinylmethyl)-beta- and gamma-amino acid derivatives by the microwave-assisted double Kabachnik-fields reaction**

Bálint Erika - Fazekas Eszter - Kóti János - Keglevich György  
Heteroatom Chem. 2015. 26(1): 106-115.

**The Synthesis of Risedronic Acid and Alendronate Applying Phosphorous Oxychloride and Phosphorous Acid in Methanesulfonic Acid**

Grün Alajos - Kovács Rita - Garadnay Sándor - Greiner István - Keglevich György  
Lett. Drug Design Discov. 2015. 12(4): 253-258.

**Thieno[2,3-b]pyridines as negative allosteric modulators of metabotropic GluR5 receptors: Lead optimization**

Nógrádi Katalin - Wágner Gábor - Domány György - Bobok Amrita Ágnes - Magdó Ildikó - Kolok Sándor - Mikó-Bakk Mónika L. - Vastag Mónika - Sághy Katalin - Gyertyán István - Kóti János - Gál Krisztina - Farkas Sándor - Keserű György Miklós - Greiner István - Szombathelyi Zsolt  
Bioorg. Med. Chem. Lett. 2015. 25(8): 1724-1729.

**Tracking of crystalline-amorphous transition of carvedilol in rotary spun microfibers and their formulation to orodispersible tablets for in vitro dissolution enhancement**

Szabó Péter - Sebe István - Stiedl Bernadett - Kállai-Szabó Barnabás - Zelkó Romána  
J. Pharmaceut. Biomed. Anal. 2015. 115: 359-367.

**Tumor Volume Estimation and Quasi-Continuous Administration for Most Effective Bevacizumab Therapy**

Sápi Johanna - Kovács Levente - Drexler Dániel András - Kocsis Pál - Gajári Dávid - Sápi Zoltán  
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**Tuning the predictive capacity of the PAMPA-BBB model**

Müller Judit - Esső Katalin - Dargó Gergő - Könczöl Árpád - Balogh György Tibor

Eur. J. Pharmaceut. Sci. 2015. 79: 53-60.

**Vibrational spectroscopic study of sodium-1,2,4-triazole, an important intermediate compound in the synthesis of several active substances**

Billes Ferenc - Ziegler Ildikó - Mikosch, Hans  
Spectrochim. Acta Part A 2015. 153: 349-362.