

List of Publications (*corresponding author)

1. Mándity I*, Paragi G, Bogár F, Csizmadia IG
A conformational analysis of histamine, and its protonated or deprotonated forms. An ab initio study
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2. Hetényi A, Mándity I, Martinek T, Tóth GK, Fülöp F
TRUE FOLDING OF CONFORMATIONALLY CONSTRAINED beta-PEPTIDES: CHAIN LENGTH-DEPENDENT SECONDARY STRUCTURE
J PEPT SCI 10: 273 (2004)
3. Hetényi A, Mándity I M, Martinek T A, Tóth G K, Fülöp F
Chain-length-dependent helical motifs and self-association of beta-peptides with constrained side chains
J AM CHEM SOC 127: (2)547-553 (2005)
IF: 7.419
4. Martinek T A, Hetényi A, Fülöp L, Mándity I M, Tóth G K, Dékány I, Fülöp F
Secondary structure dependent self-assembly of beta-peptides into nanosized fibrils and membranes
ANGEW CHEM INT EDIT 45: (15)2396-2400 (2006)
IF: 10.232
5. Martinek TA, Mándity IM, Fülöp L, Tóth GK, Vass E, Hollósi M, Forró E, Fülöp F
Effects of the alternating backbone configuration on the secondary structure and self-assembly of beta-peptides
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6. Martinek TA, Mándity IM, Hetényi A, Fülöp L, Tóth GK, Fülöp F
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J PEPT SCI 12: (S1)93 (2006)
7. Csomós P, Fodor L, Mándity I, Bernáth G
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8. Mándity I, Wéber E, Martinek TA, Tóth GK, Vass E, Fülöp F
Building beta-peptide foldamers via stereochemical LEGO approach
J PEPT SCI 14: (8)86 (2008)
9. Hetényi A, Szakonyi Z, Mándity IM, Szolnoki E, Tóth GK, Martinek TA, Fülöp F
Sculpting the beta-peptide foldamer H12 helix via a designed side-chain shape
CHEM COMMUN : (2)177-179 (2009)
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10. Mándity IM, Martinek TA, Ferenc D, Ferenc F
A simple, efficient, and selective deuteration via a flow chemistry approach
TETRAHEDRON LETT 50: (30)4372-4374 (2009)
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11. Mándity IM, Wéber E, Martinek TA, Olajos G, Tóth GK, Vass E, Fülöp F
Design of Peptidic Foldamer Helices: A Stereochemical Patterning Approach
ANGEW CHEM INT EDIT 48: (12)2171-2175 (2009)
IF: 11.829
12. Kazi B, Kiss L, Forró E, Mándity I, Fülöp F
Synthesis of conformationally constrained, orthogonally protected 3-azabicyclo[3.2.1]octane
beta-amino esters
ARKIVOC : 31-39 (2010)
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13. Mándity IM, Fülöp L, Vass E, Tóth GK, Martinek TA, Fülöp F
Building beta-Peptide H10/12 Foldamer Helices with Six-Membered Cyclic Side-Chains:
Fine-Tuning of Folding and Self-Assembly
ORG LETT 12: (23)5584-5587 (2010)
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14. Vass E, Strijowski U, Wollschlager K, Mándity IM, Szilvagyí G, Jewginski M, Gaus K,
Royo S, Majer Z, Sewald N, Hollósi M
VCD studies on cyclic peptides assembled from L-alpha-amino acids and a trans-2-
aminocyclopentane- or trans-2-aminocyclohexane carboxylic acid
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15. Ekholm FS, Mándity IM, Fülöp F, Leino R
Rapid, simple, and efficient deprotection of benzyl/benzylidene protected carbohydrates by
utilization of flow chemistry
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16. Ötvös SB, Mándity IM, Fülöp F
Highly selective deuteration of pharmaceutically relevant nitrogen-containing heterocycles: a
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17. Szabados-Nacsa A, Sipos P, Martinek T, Mándity I, Blazsó G, Balogh A, Szabo-Révész P,
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Physico-chemical characterization and in vitro/in vivo evaluation of loratadine:dimethyl-beta-
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J PHARMACEUT BIOMED ANAL 55: (2)294-300 (2011)
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18. Berlicki Ł, Pilsł L, Wéber E, Mándity I M, Cabrele C, Martinek T A, Fülöp F, Reiser O
Unique α,β - and $\alpha,\alpha,\beta,\beta$ -peptide foldamers based on cis- β -aminocyclopentanecarboxylic acid
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19. Fülöp L, Mándity IM, Juhász G, Szegedi V, Hetényi A, Wéber E, Bozsó Z, Simon D,
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20. Ötvös SB, Mándity IM, Fülöp F
Asymmetric aldol reaction in a continuous-flow reactor catalyzed by a highly reusable
heterogeneous peptide
J CATAL 295: 179-185 (2012)
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21. Ötvös SB, Mándity IM, Fülöp F
Highly Efficient 1,4-Addition of Aldehydes to Nitroolefins: Organocatalysis in Continuous
Flow by Solid-Supported Peptidic Catalysts
CHEMSUSCHEM 5: (2)266-269 (2012)
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22. Ötvös Sándor, Mándity István, Fülöp Ferenc
Organokatalízis folyamatos áramú reaktorban
MAGY KEM LAP 67: (5)143-146 (2012)

23. Miklós F, Mándity IM, Sillanpää R, Fülöp F
Stereocontrolled synthesis of five diastereomers of trimethyl 3-aminocyclopentane-1,2,4-
tricarboxylates
TETRAHEDRON LETT 54: (29)3769-3772 (2013)
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24. Ötvös SB, Mándity IM, Kiss L, Fülöp F
Alkyne-Azide Cycloadditions with Copper Powder in a High-Pressure Continuous-Flow
Reactor: High-Temperature Conditions vs. the Role of Additives
CHEM-ASIAN J 8: (4)800-808 (2013)
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25. Ötvös SB, Georgiádes A, Mándity IM, Kiss L, Fülöp F
Efficient continuous-flow synthesis of novel 1,2,3-triazole-substituted β -
aminocyclohexanecarboxylic acid derivatives with gram-scale production
BEILSTEIN J ORG CHEM 9: 1508-1516 (2013)
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26. Szolnoki E, Hetényi A, Mándity IM, Fülöp F, Martinek TA
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27. Ötvös SB, Hatoss G, Georgiádes A, Kovács S, Mándity IM, Novák Z, Fülöp F
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29. Mándity IM, Olasz B, Ötvös SB, Fülöp F
Continuous-flow solid-phase peptide synthesis: a revolutionary reduction of the amino acid excess
CHEMSUSCHEM DOI: 7:(11) pp. 3172-3176. (2014)
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30. Mándity IM, Ötvös SB, Fülöp F
Strategic application of residence time control in continuous flow reactors
CHEMISTRYOPEN 4:(3) pp. 212-223. (2015)
IF: 2.938
31. Hsieh CT, Ötvös SB, Wu YC, Mándity IM, Chang FR, Fülöp F
Highly Selective Continuous-Flow Synthesis of Potentially Bioactive Deuterated Chalcone Derivatives
CHEMPLUSCHEM 80:(5) pp. 859-864. (2015)
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32. Mándity IM,* Fülöp F
An overview of peptide and peptoid foldamers in medicinal chemistry
EXPERT OPINION ON DRUG DISCOVERY 10:(11) pp. 1163-1177. (2015)
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33. Ötvös SB, Szloszár A, Mándity IM, Fülöp F
Heterogeneous Dipeptide-Catalyzed α -Amination of Aldehydes in a Continuous-Flow Reactor: Effect of Residence Time on Enantioselectivity
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34. Hegedűs Z, Makra I, Imre N, Hetényi A, MándityIM, Monostori É, Martinek TA
Foldameric probes for membrane interactions by induced β -sheet folding
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35. Mándity IM, Ötvös SB, Szöllősi G, Fülöp F
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36. Fekete B, Palkó M, Mándity I, Haukka M, Fülöp F
A Domino Ring-Closure Followed by Retro-Diels-Alder Reaction for the Preparation of Pyrimido[2,1-a]isoindole Enantiomers
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY (21) pp. 3519-3527. (2016)
IF: 3.068
37. Laitaoja M, Isoniemi S, Valjakka J, Mándity IM, Jänis J
Deciphering metal ion preference and primary coordination sphere robustness of a designed zinc finger with high-resolution mass spectrometry
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38. Samavati R, Zador F, Szűcs E, Tuka B, Martos D, Veres G, Gáspár R, Mándity MI, Fülöp F, Vécsei L, Benyhe S, Borsodi A
Kynurenic acid and its analogue can alter the opioid receptor G-protein signaling after acute treatment via NMDA receptor in rat cortex and striatum
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39. Kiss L, Mándity IM, Fülöp F
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AMINO ACIDS 49:(9) pp. 1441-1455. (2017)
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40. Mándity IM, Nekkaa I, Paragi G, Fülöp F
Homochirality of beta-Peptides: A Significant Biomimetic Property of Unnatural Systems
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IF: 2.918
41. Szloszár A, Fülöp F, Mándity IM*
Accelerated Synthesis of Protected Peptides in a Continuous-Flow Fixed-Bed Reactor
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42. Veres G, Fejes-Szabó A, Zádori D, Nagy-Grócz G, László AM, Bajtai A, Mándity I, Szentirmai M, Bohár Z, Laborc K, Szatmári I, Fülöp F, Vécsei L, Párdutz Á
A comparative assessment of two kynurenic acid analogs in the formalin model of trigeminal activation: a behavioral, immunohistochemical and pharmacokinetic study
JOURNAL OF NEURAL TRANSMISSION 124: pp. 99-112. (2017)
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43. Nekkaa I, Palkó M, Mándity IM, Fülöp F
Continuous-flow retro-Diels-Alder reaction: an efficient method for the preparation of pyrimidinone derivatives
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44. Szloszár A, Mándity IM, Fülöp F
Sustainable synthesis of N-methylated peptides in a continuous-flow fixed bed reactor
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45. Nekkaa I, Palkó M, Mándity IM, Miklós F, Fülöp F
Continuous Flow retro-Diels-Alder Reaction: A Novel Process Window for Designing New
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Publication in Hungarian

1. Mándity István
Nagy hatékonyságú kémiai átalakítások folyamatos áramban: védőcsoport-eltávolítás,
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MAGYAR KÉMIKUSOK LAPJA 67:(11) pp. 336-337. (2012)

List of Books and Book Chapters

1. Mándity IM
Design of β -peptide foldamers by stereochemistry and topology
Saarbrücken: LAP Lambert Academic Publishing, 2014.
ISBN: 978-3-659-58996-6

2. Nieuwland P, Koch K, Becker R, Ötvös SB, Mándity IM, Fülöp F
Experimental procedures for conducting organic reactions in continuous flow
In: Darvas F, Hessel V, Dorman G (Editors.)
Flow Chemistry. Berlin: De Gruyter, 2014. pp. 157-190.
1., Fundamentals
(ISBN:978-3-11-028915-2)

List of Patents

1. F Fülöp, I M Mándity
Deuterated Morphine Derivatives
WO 2014/170704 A1
2014

2. F Fülöp, I M Mándity
Continuous Flow Peptide Synthesis
HU2015/000022
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