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Bioorganic & Medicinal Chemistry
Volume 26, Issue 10, Pages 2699-2918, 1 June 2018

Peptide Therapeutics
Edited by Thomas Vorherr

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Editorial

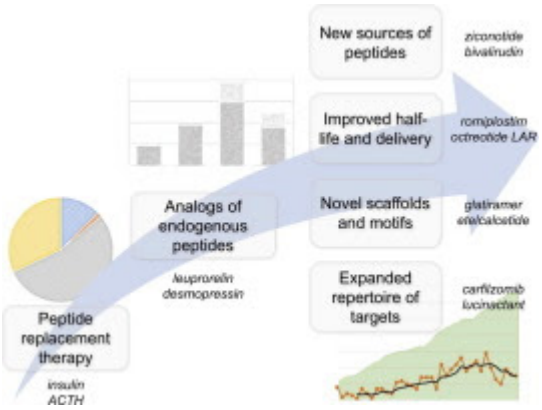
Peptide Therapeutics
Page 2699
Thomas Vorherr

Articles

Therapeutic peptides: Historical perspectives, current development trends, and future directions Original Research Article
Pages 2700-2707

Jolene L. Lau, Michael K. Dunn

Graphical abstract



Machine learning-enabled discovery and design of membrane-active peptides Original Research Article
Pages 2708-2718
Ernest Y. Lee, Gerard C.L. Wong, Andrew L. Ferguson

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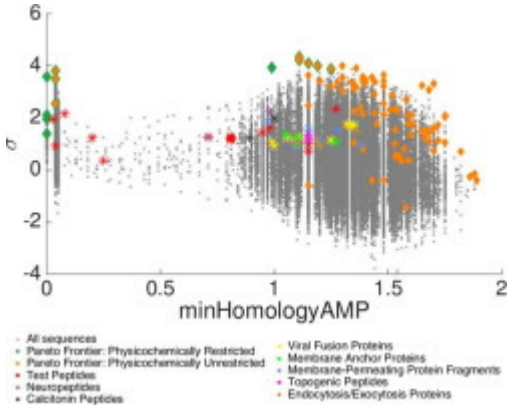
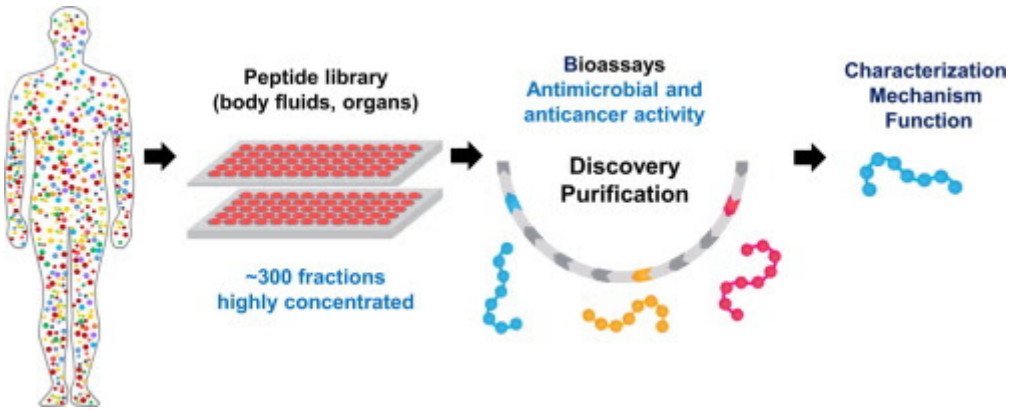


Exploiting the human peptidome for novel antimicrobial and anticancer agents Original Research Article
Pages 2719-2726
Matteo Bosso, Ludger Ständker, Frank Kirchhoff, Jan Münch

Graphical abstract



Ribosomally-synthesised cyclic peptides from plants as drug leads and pharmaceutical scaffolds Original Research Article
Pages 2727-2737
David J. Craik, Meng-Han Lee, Fabian B.H. Rehm, Benjamin Tombling, Benjamin Doffek, Hayden Peacock

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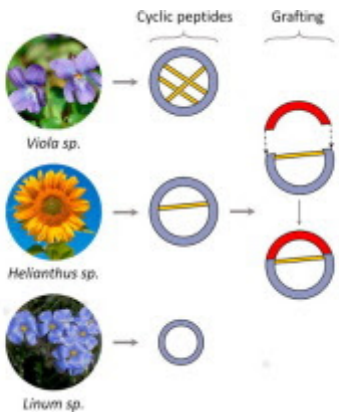
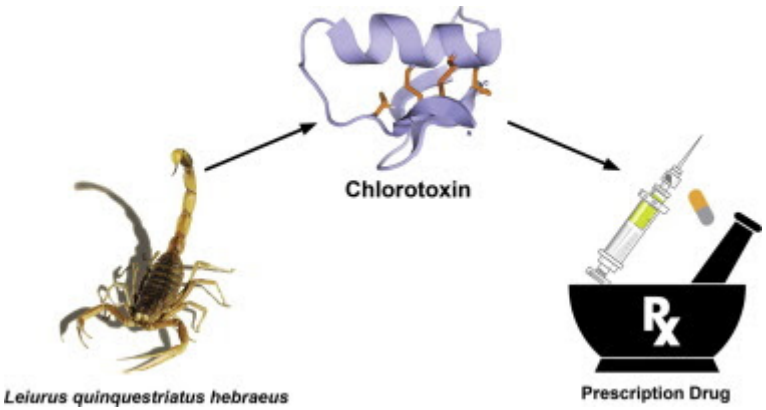


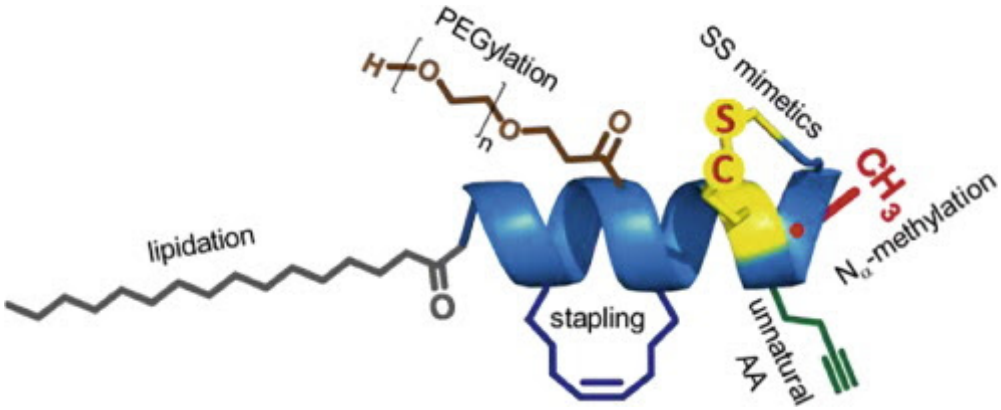
Peptide therapeutics from venom: Current status and potential Original Research Article
Pages 2738-2758
Michael W. Pennington, Andrzej Czerwinski, Raymond S. Norton

Graphical abstract



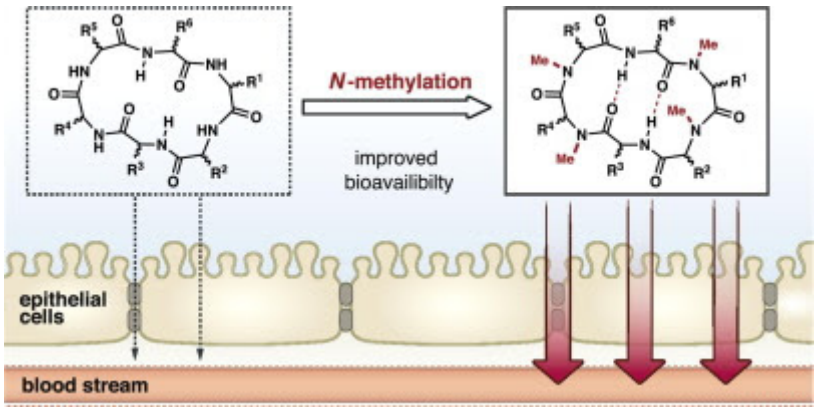
Peptide chemistry toolbox – Transforming natural peptides into peptide therapeutics Original Research Article
Pages 2759-2765
Miloš Erak, Kathrin Bellmann-Sickert, Sylvia Els-Heindl, Annette G. Beck-Sickinger

Graphical abstract



Improving oral bioavailability of cyclic peptides by *N*-methylation Original Research Article
Pages 2766-2773
Andreas F.B. Räder, Florian Reichart, Michael Weinmüller, Horst Kessler

Graphical abstract



Heterocycles: Versatile control elements in bioactive macrocycles Original Research Article
Pages 2774-2779
Harjeet S. Soor, Solomon D. Appavoo, Andrei K. Yudin

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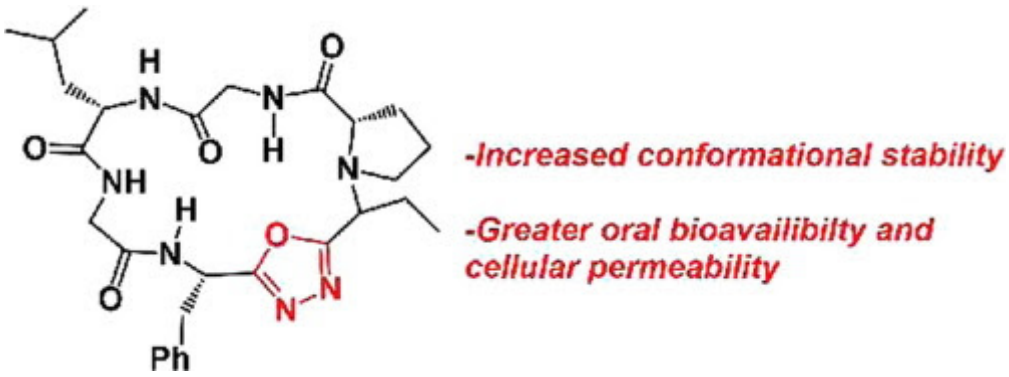
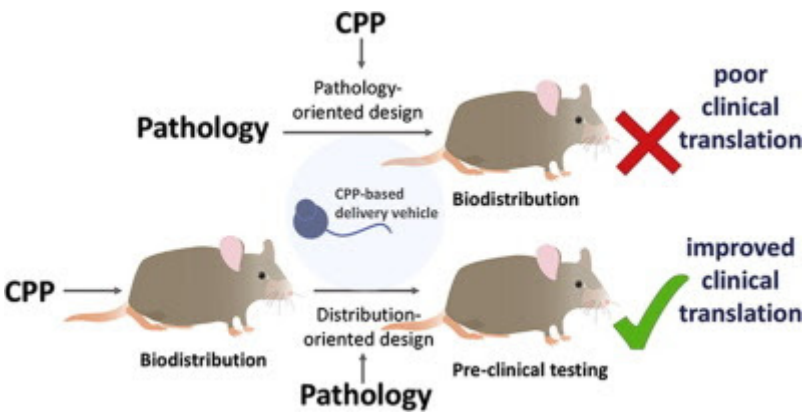


An opportunistic route to success: Towards a change of paradigm to fully exploit the potential of cell-penetrating peptides Original Research Article
Pages 2780-2787
Estel Collado Camps, Roland Brock

Graphical abstract



Teixobactin as a scaffold for unlimited new antimicrobial peptides: SAR study Original Research Article
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Shimaa A.H. Abdel Monaim, Yahya E. Jad, Ayman El-Faham, Beatriz G. de la Torre, Fernando Albericio

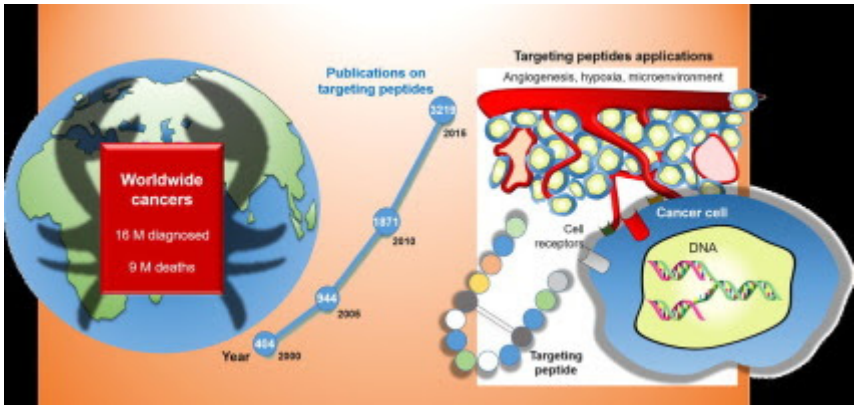
Graphical abstract

Seek & Destroy, use of targeting peptides for cancer detection and drug delivery Original Research Article
Pages 2797-2806
Vadim Le Joncour, Pirjo Laakkonen

Graphical abstract

Schematic overview of the cancer incidence and cancer-related deaths as well as the number of publications associated with the tumor targeting peptides and the applications of targeting peptides in tumor imaging and therapy. Since the mid-20th century, cancer gradually became a major concern in the clinics. Acting like a multimodal,

highly aggressive, and evolutive disease, the response of cancer to conventional chemotherapies is often poor and suffers from off-target issues. Emerged during the past three decades, targeting peptides present one breakthrough in the novel personalized/precision medicine and the interest is growing as judged by the increase in the number of publications. Data retrieved on May 2017 from *PubMed* using the keywords *targeting + peptide + cancer.* Targeting peptides are easily engineered molecules with high specificity towards cancer hallmarks *i.e.* cell proliferation and invasion, angiogenesis, hypoxia, and modifications of the tumor microenvironment. Figure shows a cyclic targeting peptide, but targeting peptides can be either linear or cyclic depending on the target and the peptide.



Macrocyclic α helical peptide therapeutic modality: A perspective of learnings and challenges Original Research Article
Pages 2807-2815
Tomi K. Sawyer, Anthony W. Partridge, Hung Yi Kristal Kaan, Yu-Chi Juang, Shuhui Lim, Charles Johannes, Tsz Ying Yuen, Chandra Verma, Srinivasaraghavan Kannan, Pietro Aronica, Yaw Sing Tan, Brad Sherborne, Sookhee Ha, Jerome Hochman, Shiying Chen, Laura Surdi, Andrea Peier, Berengere Sauvagnat, Peter J. Dandliker, Christopher J. Brown, et al.

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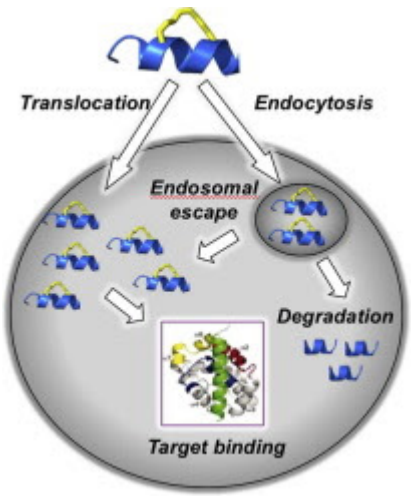

Peptides for optical medical imaging and steps towards therapy Original Research Article
Pages 2816-2826
Matteo Staderini, Alicia Megia-Fernandez, Kevin Dhaliwal, Mark Bradley

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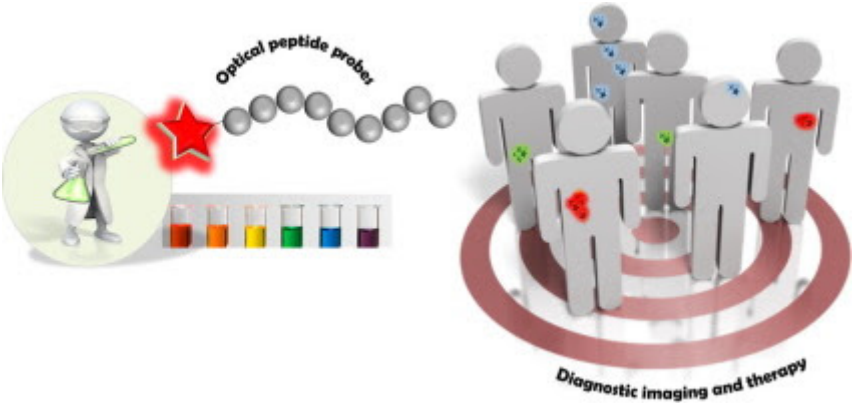

Challenges in the design of insulin and relaxin/insulin-like peptide mimetics Review Article
Pages 2827-2841
Mohammed Akhter Hossain, Ross A.D. Bathgate

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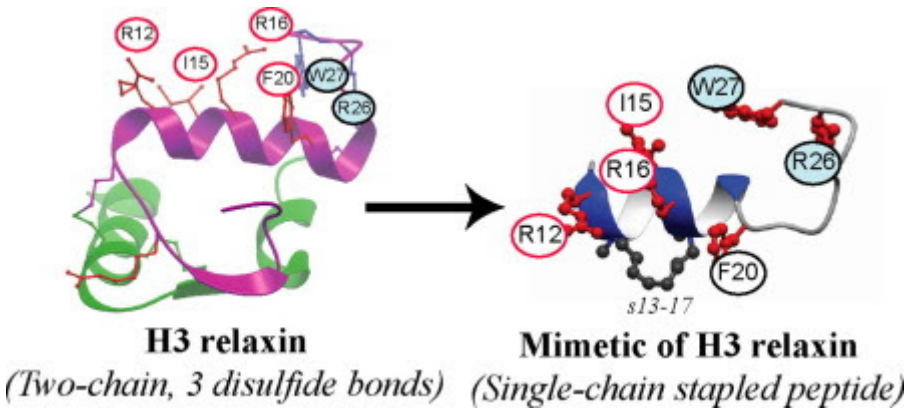

Personalized neoantigen vaccines: A new approach to cancer immunotherapy Original Research Article

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Amanda R. Aldous, Jesse Z. Dong

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Advances in macrocyclic peptide-based antibiotics Original Research Article
Pages 2850-2858
Anatol Luther, Christian Bisang, Daniel Obrecht

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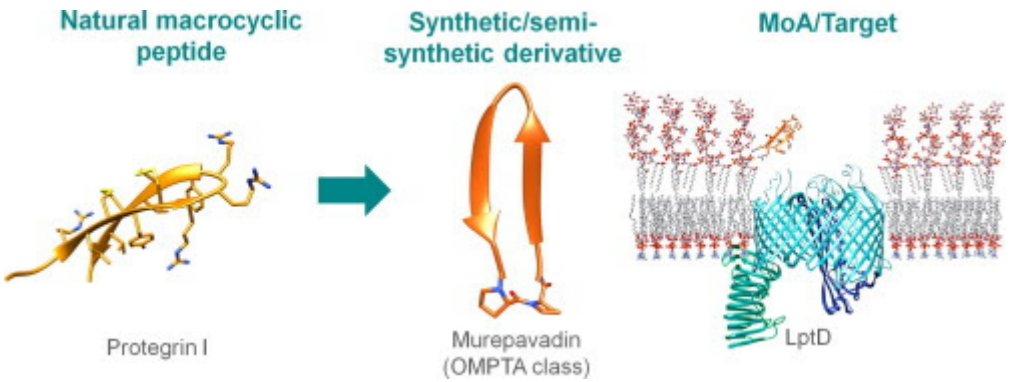

Therapeutic peptides for CNS indications: Progress and challenges Original Research Article
Pages 2859-2862

Bruce H. Morimoto

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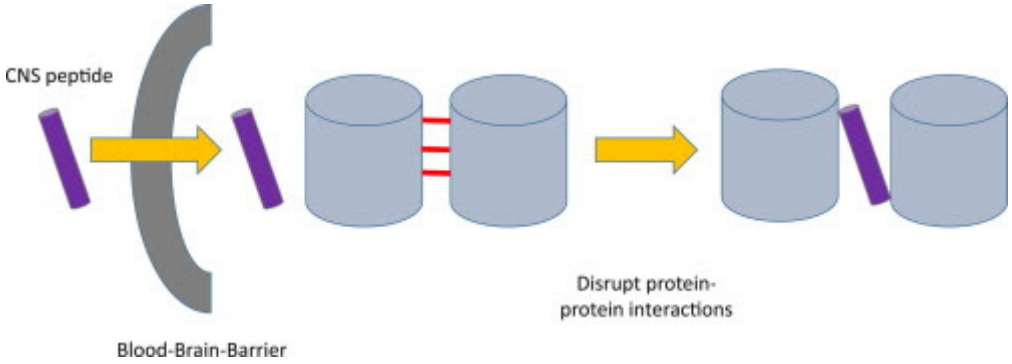

Peptide therapeutics for the treatment of gastrointestinal disorders Original Research Article
Pages 2863-2872
Angelika Fretzen

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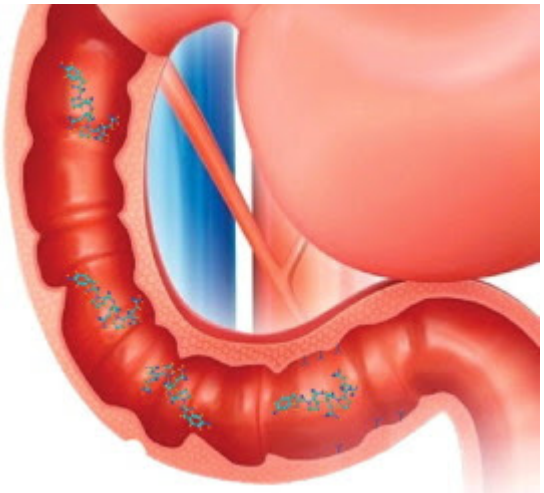

Optimization of peptide-based polyagonists for treatment of diabetes and obesity Original Research Article
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Patrick J. Knerr, Brian Finan, Vasily Gelfanov, Diego Perez-Tilve, Matthias H. Tschöp, Richard D. DiMarchi

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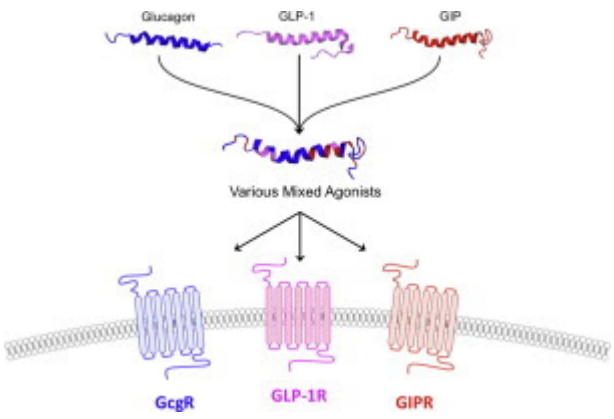

Prospects of PASylation® for the design of protein and peptide therapeutics with extended half-life and enhanced action Original Research Article
Pages 2882-2887
Michaela Gebauer, Arne Skerra

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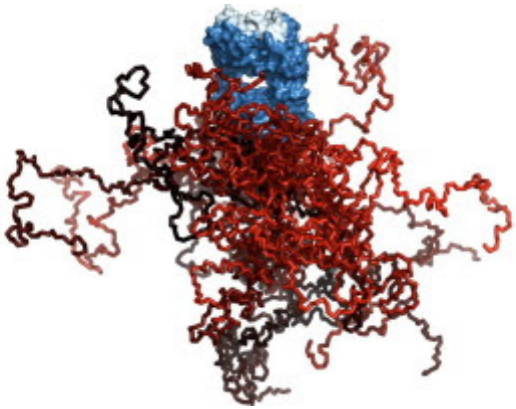

Nose-to-brain peptide delivery – The potential of nanotechnology Original Research Article
Pages 2888-2905
Eleni Samaridou, Maria José Alonso

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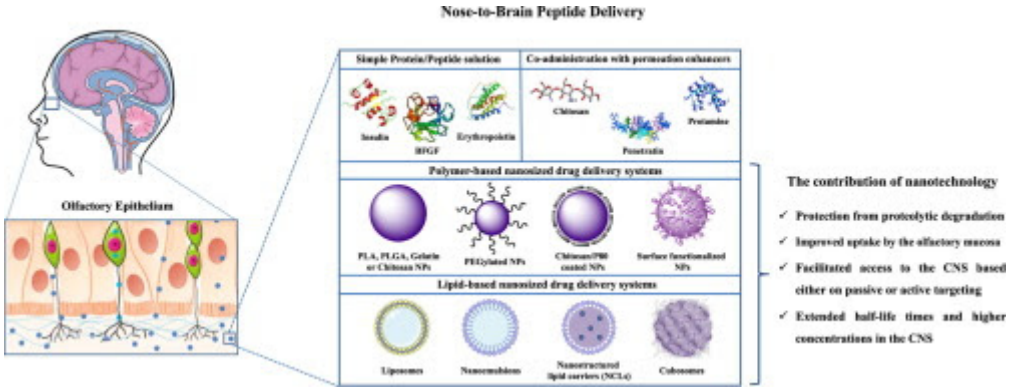

Peroral peptide delivery: Peptidase inhibition as a key concept for commercial drug products Original Research Article
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Martin Werle, Florian Föger

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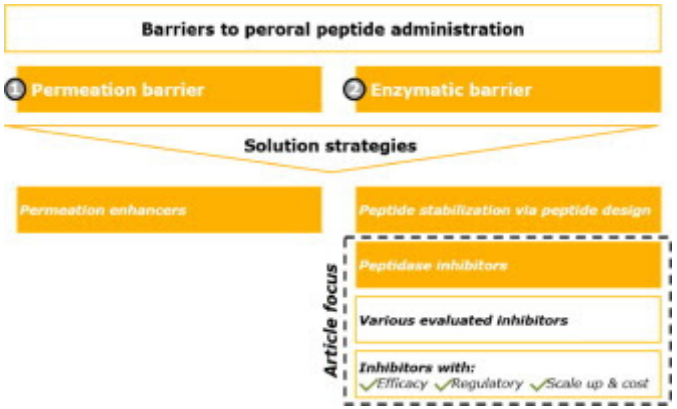

Synthetic peptide API manufacturing: A mini review of current perspectives for peptide manufacturing Original Research Article
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Jon H. Rasmussen

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