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Parisi, E., Garcia, A., Marson, D., Posocco, P., Marchesan, S.
Supramolecular Tripeptide Hydrogel Assembly with 5-Fluorouracil
Gels 5, 5, 2019
[doi:10.3390/gels5010005](https://doi.org/10.3390/gels5010005).

Zanella, S., Bocchinfuso, G., De Zotti, M., Arosio, D., Marino, F., Raniolo, S., Pignataro, L., Sacco, G., Palleschi, A., Siano, A. S., Piarulli, U., Belvisi, L., Formaggio, F., Gennari, C., Stella, L. Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors.
Frontiers. Front. Chem., 7:170, 2019
[doi: https://doi.org/10.3389/fchem.2019.00170](https://doi.org/10.3389/fchem.2019.00170)

Calvanese, L., Nanayakkara, M., Aitoro, R., Sanseverino, M. Tornesello, A.L., Falcigno, L., D'Auria G., Barone, M. V.
Structural insights on P31-43, a gliadin peptide able to promote an innate but not an adaptive response in celiac disease.
Journal of Pept. Sci. 25 (5),1-10, 2019
[doi: 10.1002/psc.3161](https://doi.org/10.1002/psc.3161).

Lombardi L, Falanga A, Del Genio V, Galdiero S.
A New Hope: Self-Assembling Peptides with Antimicrobial Activity.
Pharmaceutics. Apr 4;11(4). pii: E166, 2019
[doi: 10.3390/pharmaceutics11040166](https://doi.org/10.3390/pharmaceutics11040166).

Lombardi, L., Shi, Y., Falanga, A., Galdiero, E., de Alteriis, E., Franci, G., Chourpa, I., Azevedo, H.S., Galdiero, S.
Enhancing the Potency of Antimicrobial Peptides through Molecular Engineering and Self-Assembly.
Biomacromolecules. Mar 11;20(3):1362-1374, 2019
[doi: 10.1021/acs.biomac.8b01740](https://doi.org/10.1021/acs.biomac.8b01740).

Mangoni, A.A., Guillou, C., Vanden Eynde J.J., Hulme, C., Jampilek, J., Li, W., Prokai-Tatrai, K., Rautio, J., Collina, S., Tuccinardi, T., Sousa, M.E., Sabatier, J.M., Galdiero, S., Karaman, R., Kokotos, G., Torri, G., Luque, F.J., Vasconcelos, M.H., Hadjipavlou-Litina, D., Siciliano, C., Gütschow, M., Ragno, R., Gomes, P.A.C., Agrofoglio, L.A., Muñoz-Torrero, D.
Breakthroughs in Medicinal Chemistry: New Targets and Mechanisms, New Drugs, New Hopes⁴.
Molecules, 24, 130; 2019
[doi:10.3390/molecules24010130](https://doi.org/10.3390/molecules24010130)

Iachetta, G., Falanga, A., Molino, Y., Masse, M., Jabès, F., Mechioukhi, Y., Laforgia, V., Khrestchatisky, M., Galdiero, S., Valiante, S.
gH625-liposomes as tool for pituitary adenylate cyclase-activating polypeptide brain delivery
Scientific Reports, in press, SREP-19-05883

Galdiero, E., Siciliano, A., Gesuele, R., Di Onofrio, V., Falanga, A., Maione, A., Liguori, R., Libralato, G., Guida, M.
Melittin Inhibition and Eradication Activity for Resistant Polymicrobial Biofilm Isolated from a Dairy Industry after Disinfection.
Int J Microbiol. 2019 Jan 15; 2019:4012394.
doi: [10.1155/2019/4012394](https://doi.org/10.1155/2019/4012394)

Bucci, R., Contini, A., Clerici, F., Beccalli, E. M., Formaggio, F., Maffucci, I., Pellegrino, S., Gelmi, M. L.
Fluoro-Aryl Substituted $\alpha,\beta,2,3$ -Peptides in the Development of Foldameric Antiparallel β -Sheets: A Conformational Study
Frontiers in Chemistry, April 2019 | Volume 7 | Article 192
doi: [10.3389/fchem.2019.00192](https://doi.org/10.3389/fchem.2019.00192)

Oliva, F., Bucci, R., Tamborini, L., Pieraccini, S., Pinto, A., Pellegrino, S.
Bicyclic Pyrrolidine-Isoxazoline γ Amino Acid: A Constrained Scaffold for Stabilizing α -Turn Conformation in Isolated Peptides
Frontiers in Chemistry, March 2019 | Volume 7 | Article 133
doi: [10.3389/fchem.2019.00133](https://doi.org/10.3389/fchem.2019.00133)

Bucci, R., Contini, A., Clerici, F., Pellegrino, S., Gelmi, M. L.
From glucose to enantiopure morpholino β -amino acid: A new tool for stabilizing γ -turns in peptides.
Organic Chemistry Frontiers, 6, 972-982, 2019,
doi: [10.1039/C8QO01116H](https://doi.org/10.1039/C8QO01116H)

Gatto, E., Kubisztzy, S., Schriever, M., Cesaroni, S., Mazzuca, C., Marafon, G., Venanzi, M., De Zotti, M.
Building Supramolecular DNA-Inspired Nanowires on Gold Surfaces: from 2D to 3D"
Angewandte Chemie International Edition, in press,
doi: <https://doi.org/10.1002/anie.201901683>.

Di Natale, C., La Manna, S., Malfitano, A. M., Di Somma, S., Florio, D., Scognamiglio, P. L., Marasco, D. (2019).
Structural insights into amyloid structures of the C-terminal region of nucleophosmin 1 in type A mutation of acute myeloid leukemia.
Biochim. Biophys Acta Proteins Proteom, 1867(6), 637-644.
doi: [10.1016/j.bbapap.2019.01.010](https://doi.org/10.1016/j.bbapap.2019.01.010)

Florio, D., Malfitano, A. M., Di Somma, S., Mugge, C., Weigand, W., Ferraro, G., Marasco, D.
Platinum(II) O,S Complexes Inhibit the Aggregation of Amyloid Model Systems.
Int J Mol Sci, 20(4), 2019
doi: [10.3390/ijms20040829](https://doi.org/10.3390/ijms20040829)

La Manna, S., Roviello, V., Scognamiglio, P. L., Diaferia, C., Giannini, C., Sibillano, T., Marasco, D.

Amyloid fibers deriving from the aromatic core of C-terminal domain of nucleophosmin 1.

Int J Biol Macromol, 122, 517-525, 2019

doi: [10.1016/j.ijbiomac.2018.10.210](https://doi.org/10.1016/j.ijbiomac.2018.10.210)

La Manna, S., Scognamiglio, P. L., Roviello, V., Borbone, F., Florio, D., Di Natale, C., Marasco, D.

The acute myeloid leukemia-associated Nucleophosmin 1 gene mutations dictate amyloidogenicity of the C-terminal domain.

FEBS J. 2019

doi: [10.1111/febs.14815](https://doi.org/10.1111/febs.14815)

Lee, E., Ouzounova, M., Piranlioglu, R., Ma, M. T., Guzel, M., Marasco, D., Korkaya, H.

The pleiotropic effects of TNF α in breast cancer subtypes is regulated by TNFAIP3/A20.

Oncogene, 38(4), 469-482, 2019

doi: [10.1038/s41388-018-0472-0](https://doi.org/10.1038/s41388-018-0472-0)

Mercurio, F.A., Di Natale, C., Pirone, L., Marasco, D., Calce, E., Vincenzi, M., Pedone, E.M., De Luca, S., Leone, M.

Design and analysis of EphA2-SAM peptide ligands: A multi-disciplinary screening approach.

Bioorg Chem, 84, 434-443, 2019

doi: [10.1016/j.bioorg.2018.12.009](https://doi.org/10.1016/j.bioorg.2018.12.009)

Piranlioglu, R., Lee, E., Ouzounova, M., Bollag, R. J., Vinyard, A. H., Arbab, A. S., Daniela Marasco, Guzel, M., Cowell, J.K., Thangaraju, M., Chadli, A., Hassan, K.A., Wicha, M.S., Celi, E., Korkaya, H.

Primary tumor-induced immunity eradicates disseminated tumor cells in syngeneic mouse model.

Nat Commun, 10(1), 1430, 2019.

doi: [10.1038/s41467-019-09015-1](https://doi.org/10.1038/s41467-019-09015-1)

De Marco, R., Zhao, J., Greco, A., Ioannone, S., Gentilucci, L.

In-Peptide Synthesis of Imidazolidin-2-one Scaffolds, Equippable with Proteinogenic or Taggable/Linkable Side Chains, General Promoters of Unusual Secondary Structures"

J. Org. Chem., 2019, 84 (9), pp 4992–5004,

doi: [10.1021/acs.joc.8b03055](https://doi.org/10.1021/acs.joc.8b03055)

Caporale, A.; Bolzati, C.; Incisivo, G.M.; Salvarese, N.; Grieco, P.; Ruvo, M.

Improved synthesis on solid phase of dithiocarbamic cRGD-derivative and 99m Tc-radiolabelling.

J Pept Sci. Feb;25(2):e3140, 2019

doi: [10.1002/psc.3140](https://doi.org/10.1002/psc.3140)

Liu, C.; Wu, P.; Zhu, H.; Grieco, P.; Yu, R.; Gao, X.; Wu, G.; Wang, D.; Xu, H.; Qi, W.

Rationally Designed α -Conotoxin Analogues Maintained Analgesia Activity and Weakened Side Effects.

Molecules 18;24(2) 2019

doi: [10.3390/molecules24020337](https://doi.org/10.3390/molecules24020337)

Caporale, A.; Martin, A. D.; Capasso, D.; Focà, G.; Sandomenico, A.; D'Andrea, L. D.; Grieco, P.; Ruvo, M.; Doti, N.

Short PIGF-derived peptides bind VEGFR-1 and VEGFR-2 in vitro and on the surface of endothelial cells

Journal of Peptide Science, 2019; e3146

doi.org/10.1002/psc.3146

Merlino, F.; Billard, E.; Yousif, A.M.; Di Maro, S.; Brancaccio, D.; Abate, L.; Carotenuto, A.; Bellavita, R.; d'Emmanuele di Villa Bianca, R.; Santicioli, P.; Marinelli, L.; Novellino, E.; Hébert, T.; Lubell, W.D.; Chatenet, D.; Grieco, P.

Functional Selectivity Revealed by N-Methylation Scanning of Human Urotensin II and Related Peptides.

J. Med. Chem. 14;62(3):1455-1467, 2019

[doi: 10.1021/acs.jmedchem.8b01601](https://doi.org/10.1021/acs.jmedchem.8b01601)

Grieco, P.; Gomez-Monterrey, I.

Natural and synthetic peptides in the cardiovascular diseases: An update on diagnostic and therapeutic potentials.

Arch Biochem Biophys. Arch Biochem Biophys. 15;662:15-32, 2019

[doi: 10.1016/j.abb.2018.11.021](https://doi.org/10.1016/j.abb.2018.11.021).

Buommino, E., Carotenuto, A., Antignano, I., Bellavita, R., Casciaro, B., Loffredo, M.R., Merlino, F., Novellino, E., Mangoni, M.L., Nocera, F.P., Brancaccio, D., Punzi, P., Roversi, D., Ingenito, R., Bianchi, E., Grieco, P.

The Outcomes of Decorated-Prolines in Discovering Novel Antimicrobial Peptides from Temporin-L.

ChemMedChem. May 14. 2019

[doi: 10.1002/cmdc.201900221](https://doi.org/10.1002/cmdc.201900221).

Stefanucci, A., Lei, W., Pieretti, S., Novellino, E., Dimmito, M.P., Marzoli, F., Streicher, J.M., Mollica, A.

Resin click-chemistry-mediated synthesis of novel enkephalin analogues with potent anti-nociceptive activity.

Sci Rep. 2019.

[doi.10.1038/s41598-019-42289-5](https://doi.org/10.1038/s41598-019-42289-5)

Stefanucci, A., Lei, W., Pieretti, S., Dimmito, M.P., Luisi, G., Novellino, E., Nowakowski, M., Koźmiński, W., Mirzaie, S., Zengin, G., Streicher, J.M., Mollica, A.

Novel Cyclic Biphalin Analogues by Ruthenium-Catalyzed Ring Closing Metathesis: In Vivo and in Vitro Biological Profile.

ACS Med Chem Lett. 10.1021/acsmmedchemlett.8b00495

Mollica, A., Zengin, G., Durdagi, S., Ekhteiri Salmas, R., Macedonio, G., Stefanucci, A., Dimmito, M.P., Novellino, E.

Combinatorial peptide library screening for discovery of diverse α -glucosidase inhibitors using molecular dynamics simulations and binary QSAR models.

Journal of Biomolecular Structure and Dynamics.

[doi: 10.1080/07391102.2018.1439403](https://doi.org/10.1080/07391102.2018.1439403)

Erdei, A.I., Borbély, A., Magyar, A., Szűcs, E., Ötvös, F., Gombos, D., Al-Khrasani, M., Stefanucci, A., Dimmito, M.P., Luisi, G., Mollica, A., Benyhe, S.
Biochemical and pharmacological investigation of novel nociceptin/OFQ analogues and N/OFQ-RYYRIK hybrid peptides.

Peptides.

doi: [10.1016/j.peptides.2018.11.010](https://doi.org/10.1016/j.peptides.2018.11.010)

Luisi, G., Stefanucci, A., Zengin, G., Dimmito, M.P., Mollica, A.
Anti-oxidant and tyrosinase inhibitory in vitro activity of amino acids and small peptides: New hints for the multifaceted treatment of neurologic and metabolic disfunctions.

Antioxidants

doi: [10.3390/antiox8010007](https://doi.org/10.3390/antiox8010007)

Stefanucci, A., Dimmito, M.P., Zengin, G., Luisi, G., Mirzaie, S., Novellino, E., Mollica, A.
Discovery of novel amide tripeptides as pancreatic lipase inhibitors by virtual screening.

New Journal of Chemistry.

doi: [10.1039/c8nj05884a](https://doi.org/10.1039/c8nj05884a)

Stefanucci, A., Luisi, G., Zengin, G., Macedonio, G., Dimmito, M.P., Novellino, E., Mollica, A.
Discovery of arginine-containing tripeptides as a new class of pancreatic lipase inhibitors.

Future Med. Chem.

doi: [10.4155/fmc-2018-0216](https://doi.org/10.4155/fmc-2018-0216)

Guryanov, F. Real-Fernández, G. Sabatino, N. Prisco, E. Popova, V. Korzhikov-Vlakh, B. Biondi, A.M. Papini, E. Korzhikova-Vlakh, P. Rovero, T. Tennikova.
Modeling interaction between gp120 HIV protein and CCR5 receptor.

J. Pept. Sci., 2019, 25(2): e3142, 2019

doi: [10.1002/psc.3142](https://doi.org/10.1002/psc.3142)

F. Real-Fernández, F. Pregnotato, R. Cimaz, A.M. Papini, M.O. Borghi, P.L. Meroni, P. Rovero.

Detection of anti-adalimumab antibodies in a RA responsive cohort of patients using three different techniques.

Anal. Biochem., 566: 133-138, 2019

doi: [10.1016/j.ab.2018.11.018](https://doi.org/10.1016/j.ab.2018.11.018)

A. Mazzoleni, J.-M. Mallet, P. Rovero, A.M. Papini.

Glycoreplica peptides to investigate molecular mechanisms of immune-mediated physiological versus pathological conditions.

Arch. Biochem. Biophys., 663: 44-53, 2019

doi: [10.1016/j.abb.2018.12.030](https://doi.org/10.1016/j.abb.2018.12.030)

F. Nuti, C. Gellini, M. Larregola, L. Squillantini, R. Chelli, P. R. Salvi, O. Lequin, G. Pietraperzia, A.M. Papini.

A photochromic azobenzene peptidomimetic of a β -turn model peptide structure as a conformational switch.

Frontiers in Chemistry., 7: Art.180, 2019

doi: [10.3389/fchem.2019.00180](https://doi.org/10.3389/fchem.2019.00180)

C. Bello, P. Rovero, A.M. Papini.

Just a spoonful of sugar: short glycans affects protein properties and functions.

J. Pept. Sci. 2019, 25(5), 2019

doi: [10.1002/psc.3167](https://doi.org/10.1002/psc.3167)

Armas, F., Pacor, S., Ferrari, E., Guida, F., Pertinhez, T.A., Romani, A.A., Scocchi, M., Benincasa, M.

Design, antimicrobial activity and mechanism of action of Arg-rich ultra-short cationic lipopeptides

PLoS ONE, Volume 14, Issue 2, February 2019

doi: [10.1371/journal.pone.0212447](https://doi.org/10.1371/journal.pone.0212447)

Pirone L, Di Gaetano S, Rizzarelli E, Bellia F, Pedone E.

Focusing on the functional characterization of the anserinase from *Oreochromis niloticus*.

Int J Biol Macromol. 2019 Jun 1;130:158-165.

doi: [10.1016/j.ijbiomac.2019.02.118](https://doi.org/10.1016/j.ijbiomac.2019.02.118).

Pirone L, Caldinelli L, Di Lascio S, Di Girolamo R, Di Gaetano S, Fornasari D, Pollegioni L, Benfante R, Pedone E.

Molecular insights into the role of the polyalanine region in mediating PHOX2B aggregation.

FEBS J. 2019 Apr 7.

doi:[10.1111/febs](https://doi.org/10.1111/febs).

Bellia F, Lanza V, García-Viñuales S, Ahmed IMM, Pietropaolo A, Iacobucci C, Malgieri G, D'Abrosca G, Fattorusso R, Nicoletti VG, Sbardella D, Tundo GR, Coletta M, Pirone L, Pedone E, Calcagno D, Grasso G, Milardi D.

Ubiquitin binds the amyloid β peptide and interferes with its clearance pathways.

Chem Sci. 2019 Jan 10;10(9):2732-2742.

doi: [10.1039/c8sc03394c](https://doi.org/10.1039/c8sc03394c).

S. De Santis, F. Novelli, F. Sciubba, S. Casciardi, S. Sennato, S. Morosetti, **A. Scipioni**, G. Masci, Switchable length nanotubes from a self-assembling pH and thermosensitive linear l,d-peptide-polymer conjugate.

J. Coll. Interface Science **547** (2019) 256-266

doi://doi.org/10.1016/j.jcis.2019.03.093

Messina G.M.L., Di Napoli B., De Zotti M., Mazzuca C., Formaggio F., Palleschi A., Marletta G.

A molecular sponge: pH-driven reversible squeezing of stimuli-sensitive peptide monolayers.

Langmuir 35, 4813-4824, (2019)

doi: [10.1021/acs.langmuir.8b03895](https://doi.org/10.1021/acs.langmuir.8b03895)

De Zotti M., Clayden J.

Extended diethylglycine homopeptides formed by desulfurization of their tetrahydrothiopyran analogues

Org. Lett. 7, 2209-2212, 2019

doi: [10.1021/acs.orglett.9b00501](https://doi.org/10.1021/acs.orglett.9b00501)

Zanella S, Bocchinfuso G, De Zotti M, Arosio D, Marino F, Raniolo S, Pignataro L, Sacco G, Palleschi A, Siano AS, Piarulli U, Belvisi L, Formaggio F, Gennari C and Stella L
Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors.

Front. Chem. 29 March 2019

doi: [10.3389/fchem.2019.00170](https://doi.org/10.3389/fchem.2019.00170)

Gatto E., Kubitzky S., Schriever M., Cesaroni S., Mazzuca C., Marafon G., Venanzi M., De Zotti M.

Building supramolecular DNA-inspired nanowires on gold surface: from 2D to 3D
Journal: Angew. Chem. Int. Ed. 58,7308-7312, 2019

doi: [10.1002/anie.201901683](https://doi.org/10.1002/anie.201901683)

Salnikov E.S., De Zotti M., Bobone S., Mazzuca C., Raya J., Siano A.S., Peggion C., Toniolo C., Stella L., Bechinger B.

Trichogin GA IV alignment and oligomerization in phospholipid bilayers
ChemBioChem 20, 886-890, 2019

doi: [10.1002/cbic.201900263](https://doi.org/10.1002/cbic.201900263)

De Zotti M., Syryamina V.N., Hussain R., Longo E., Siligardi G., Dzuba S.A., Stella L., Formaggio F.

A temperature-driven, reversible helical handedness inversion in peptaibol analogs tuned by the C-terminal capping moiety.

ChemBioChem, in press, 2019

doi: [10.1002/cbic.201900235](https://doi.org/10.1002/cbic.201900235)

Drouillat B., Peggion C., Biondi B., Wright K., Couty F., Crisma M., Formaggio F., Toniolo C.
Titolo: Heterochiral Ala/(α Me)Aze sequential oligopeptides: Synthesis and conformational study

Journal Pept. Sci.

doi: [10.1002/psc.3165](https://doi.org/10.1002/psc.3165)

Bucci R., Contini A., Clerici F., Beccalli E. M., Formaggio F., Maffucci I., Pellegrino S., Gelmi M.L.

Titolo: Fluoro-Aryl Substituted α,β -Peptides in the Development of Foldameric Antiparallel β -Sheets: A Conformational Study

Front. Chem.

doi: [fchem.2019.00192](https://doi.org/10.3389/fchem.2019.00192)

Afanasyeva E.F., Syryamina V.N., De Zotti M., Formaggio F., Toniolo C., Dzuba S.A.
Titolo: Peptide antibiotic trichogin in model membranes: Self-association and capture of fatty acids

Biochim. Biophys. Acta (Biomembranes)

doi: [10.1016/j.bbamem.2018.12.006](https://doi.org/10.1016/j.bbamem.2018.12.006)

Casciaro B, Lin Q, Afonin S, Loffredo MR, de Turrís V, Middel V, Ulrich AS, Di YP, Mangoni ML. Inhibition of *Pseudomonas aeruginosa* biofilm formation and expression of virulence genes by selective epimerization in the peptide Esculentin-1a(1-21)NH₂.

FEBS J. 2019 May 30.

doi: [10.1111/febs.14940](https://doi.org/10.1111/febs.14940).

S. Marcelli, F. Iannuzzi, E. Ficulle, D. Mango, S. Pieraccini, S. Pellegrino, M. Corbo, M. Sironi, A. Pittaluga, R. Nisticò, M. Feligioni “The selective disruption of presynaptic JNK2/STX1a interaction reduces NMDA receptor-dependent glutamate release”

Sci. Reports, 2019, 9, Article number: 7146,

[doi:10.1038/s41598-019-43709-2](https://doi.org/10.1038/s41598-019-43709-2)

F. Oliva, R. Bucci, L. Tamborini, S. Pieraccini, A. Pinto, S. Pellegrino

Bicyclic Pyrrolidine-Isoxazoline γ Amino Acid: A Constrained Scaffold for Stabilizing α -Turn Conformation in Isolated Peptides

Front. Chem., 2019,

[doi: 10.3389/fchem.2019.00133](https://doi.org/10.3389/fchem.2019.00133)

R. Bucci, A. Contini, F. Clerici, E. M. Beccalli, F. Formaggio, I. Maffucci, S. Pellegrino, M. L. Gelmi “Fluoro-Aryl Substituted $\alpha,\beta,2,3$ -Peptides in the Development of Foldameric Antiparallel β -Sheets: A Conformational Study”

Front. Chem., 2019,

[doi:10.3389/fchem.2019.00192](https://doi.org/10.3389/fchem.2019.00192)

I. Hafstrand, E. Canan Sayitoglu, A. Apavaloaei, B. J. Josey, R. Sun, X. Han, S. Pellegrino, D. Ozkazanc, R. Potens, L. Janssen, J. Nilvebrant, P.-Å. Nygren, T. Sandalova, S. Springer, A.-M. Georgoudaki, A. D. Duru, A. Achour “ Successive crystal structure snapshots suggest the basis for MHC class I peptide loading and editing by tapasin”

PNAS, 2019, 116, 5055-5060,

[doi:10.1073/pnas.1807656116](https://doi.org/10.1073/pnas.1807656116)

R. Bucci, A. Contini, F. Clerici, S. Pellegrino, M. L. Gelmi “From glucose to enantiopure morpholino β -amino acid: a new tool for stabilizing γ -turns in peptides”

Org. Chem. Front., 2019, 6, 972-982

[doi: 10.1039/C8QO01116H](https://doi.org/10.1039/C8QO01116H)

M. G. Dal Farra, S. Richert, C. Martin, C. Larminie, M. Gobbo, E. Bergantino, C. R. Timmel, A. M. Bowen, M. Di Valentin

Light-Induced Pulsed EPR Dipolar Spectroscopy on a Paradigmatic Hemeprotein

ChemPhysChem 2019, 20, 931-935

doi.org/10.1002/cphc.201900139

C. Mazzuca, B. Di Napoli, F. Biscaglia, G. Ripani, S. Rajendran, A. Braga, C. Benna, S. Mocellin, M. Gobbo, M. Meneghetti, A. Palleschi

Understanding the good and poor cell targeting activity of gold nanostructures functionalized with molecular units for the epidermal growth factor receptor

Nanoscale Advanced, 2019, 1, 1970-1979

[doi: 10.1039/c9na00096h](https://doi.org/10.1039/c9na00096h)

F. Biscaglia, S. Quarta, G. Villano, C. Turato, A. Biasiolo, L. Litti, M. Ruzzene, M. Meneghetti, P. Pontisso M. Gobbo

PreS1 Peptide-Functionalized Gold Nanostructures with SERRS tags for Efficient Liver Cancer Cell Targeting

Materials Science & Engineering C 2019, 103, 109762

doi.org/10.1016/j.msec.2019.109762

B. Drouillat, C. Peggion, B. Biondi, K. Wright, F. Couty, M. Crisma, F. Formaggio, C. Toniolo
Heterochiral Ala/(α Me)Aze sequential oligopeptides: Synthesis and conformational study
J. Pept. Sci., 25, e3165 (2019).
doi: <https://doi.org/10.1002/psc.3165>

M. De Zotti, B. Biondi, C. Peggion, M. Gobbo, M. Crisma, C. Toniolo, S. Oancea, V. N. Syryamina, S. A. Dzuba, F. Formaggio
Investigating Peptaibols by Synthesizing Analogs and Exploiting EPR
In "Peptide Science 2018", Proc. 10th International Peptide Symposium, S. Futaki and K. Matsuzaki, Eds., The Japanese Peptide Society, Kyoto, Japan, 2019, p. 16.
ISBN 978-4-931541-191. ISSN 1344-7661.

F. M. Mir, M. Crisma, C. Toniolo, W. D. Lubell
Influence of the C-terminal substituent on the crystal-state conformation of Adm peptides
Pept. Sci., (2019), accepted (early view)
doi: <https://doi.org/10.1002/pep2.24121>

E. S. Salnikov, M. De Zotti, S. Bobone, C. Mazzuca, J. Raya, A. S. Siano, C. Peggion, C. Toniolo, L. Stella, B. Bechinger
Trichogin GA IV alignment and oligomerization in phospholipid bilayers
ChemBioChem, (2019), accepted
doi: <https://doi.org/10.1002/cbic.201900263>

G. Marafon, M. Crisma, A. Moretto
Tunable E–Z Photoisomerization in α,β -Peptide Foldamers Featuring Multiple (E/Z)-3-Aminoprop-2-enoic Acid Units
Org. Lett., (2019), in press (article ASAP)
doi: <https://doi.org/10.1021/acs.orglett.9b01360>

Csire, G., Kolozsi, A., Gajda, T., Pappalardo, G., Várnagy, K., Sóvágó, I., Fábrián, I., Lih. N.
The ability of the NiSOD binding loop to chelate zinc (II): the role of the terminal amino group in the enzymatic functions
Dalton Trans., 2019, 48, 6217
doi: [10.1039/c9dt01015g](https://doi.org/10.1039/c9dt01015g)

M. Seggio, A., Contino, G., Maccarronea, C., Parentib, S., Merlo, G., Pappalardo, A., Giuffrida, S., Chiechio
Preclinical evidence of enhanced analgesic activity of duloxetine complexed with succinyl- β -cyclodextrin: A comparative study with cyclodextrin complexes
International Journal of Pharmaceutics 566 (2019) 391–399
doi: [/doi.org/10.1016/j.ijpharm.2019.05.077](https://doi.org/10.1016/j.ijpharm.2019.05.077)

Comegna D., Del Gatto A., Saviano M., Zaccaro L. "On Bead Peptoid Dimerization Induced by Incorporation of Glycosylated Bridging Monomers: a New Target in the Solid-Phase Submonomer Approach to Glycopeptoids"
Organic Letters, 2019, in press,
doi: doi.org/10.1021/acs.orglett.9b012

B. S. Hill, A., Sarnella, D., Capasso, D., Comegna, A. Del Gatto M. Gramanzini, S., Albanese, M., Saviano, L., Zaccaro, A., Zannetti
Therapeutic Potential of a Novel $\alpha\beta 3$ Antagonist to Hamper the Aggressiveness of Mesenchymal Triple Negative Breast Cancer Sub-Type
Cancers 2019, 11, 139
[doi: 10.3390/cancers11020139](https://doi.org/10.3390/cancers11020139)

Rončević T, Vukičević D, Krce L, Benincasa M, Aviani I, Maravić A, Tossi A.
Selection and redesign for high selectivity of membrane-active antimicrobial peptides from a dedicated sequence/function database.
Biochim Biophys Acta Biomembr. 2019 Apr 1;1861(4):827-834.
[doi: 10.1016/j.bbamem.2019.01.017](https://doi.org/10.1016/j.bbamem.2019.01.017)

Rončević T, Krce L, Gerdol M, Pacor S, Benincasa M, Guida F, Aviani I, Čikeš-Čulić V, Pallavicini A, Maravić A, Tossi A.
Membrane-active antimicrobial peptide identified in *Rana arvalis* by targeted DNA sequencing.
Biochim Biophys Acta Biomembr. 2019 Mar 1;1861(3):651-659.
[doi: 10.1016/j.bbamem.2018.12.014](https://doi.org/10.1016/j.bbamem.2018.12.014)

C., Diaferia, E., Gianolio, A., Accardo
Peptide based building blocks as structural elements for supramolecular Gd³⁺containing MRI contrast agents.
J Pep Sci. 2019, 25 : e3157
<https://doi.org/10.1002/psc.3157>

D., Tesauro, A., Accardo, C., Diaferia, V., Milano, J., Guillon, L., Ronga, F., Rossi
Peptide-Based Drug-Delivery Systems in Biotechnological Applications:
Recent Advances and Perspectives.
Molecules 2019, 24(2), 351
<https://doi.org/10.3390/molecules24020351>

ATTIVAZIONI DI START-UP

La Dr.ssa Emanuele Gatto, Dell'Università di Roma, segnala di essere il CEO di una Start up innovativa che sta chiedendo l'accREDITAMENTO come Spin off universitario, di nome **SPlastica srl**, mediante la quale si propongono di realizzare bioplastica compostabile a partire da scarti alimentari. SPlastica ha ricevuto diversi premi nazionali e l'attenzione dei media: abbiamo diversi servizi in TV, tra cui uno al Tg1 delle 20.