

Marta Menicatti

INFORMAZIONI DI CONTATTO

DESCRIZIONE

Dott.ssa in Biotecnologie Farmaceutiche con più di 6 anni di esperienza come ricercatrice in campo analitico

ESPERIENZA

Borsista di ricerca

Università degli studi di Firenze
Firenze
Aprile-2020 - Settembre-2020

Studi strutturali, analisi quali-quantitative di una serie di molecole di interesse farmaceutico

Assegnista di ricerca

Università degli studi di Firenze
Firenze
Ottobre-2013 - Settembre-2019

Studi strutturali, analisi quali-quantitative e valutazione farmacologica di una serie di ligandi chirali di interesse farmaceutico

ISTRUZIONE

Laurea magistrale in

Biotecnologie Farmaceutiche

Università degli studi di Firenze
Firenze, Italia
2012

Tesi dal titoli "Sviluppo e confronto di metodi in spettrometria di massa per l'analisi chirale di composti farmaceutici"
Voto 110/110 e Lode

LINGUE

Inglese

Livello avanzato

Tedesco

Livello medio

COMPETENZE

Sviluppo e validazione di metodi per analisi quali/quantitative tramite tecniche di cromatografia liquida o gassosa accoppiata a spettrometria di massa

CERTIFICATI E CORSI

Corso di Spettrometria di Massa, Certosa di Pontignano (SI), Aprile 2014

PUBBLICAZIONI

1. "The power of energy-resolved tandem mass spectrometry experiments for resolution of isomers: the case of drug plasma stability investigation of multidrug resistance inhibitors". Menicatti M, Guandalini L, Dei S, Floriddia E, Teodori E, Traldi P, Bartolucci G.
Rapid Commun Mass Spectrom. 2016 Feb 15;30(3):423-32.
2. "Energy resolved tandem mass spectrometry experiments for resolution of isobaric compounds: a case of cis/trans isomerism". Menicatti M, Guandalini L, Dei S, Floriddia E, Teodori E, Traldi P, Bartolucci G.
Eur J Mass Spectrom (Chichester). 2016;22(5):235-243.
3. "Piperazines as nootropic agents: New derivatives of the potent cognition-enhancer DM235 carrying hydrophilic substituents". Martino MV, Guandalini L, Di Cesare Mannelli L, Menicatti M, Bartolucci G, Dei S, Manetti D, Teodori E, Ghelardini C, Romanelli MN.
Bioorg Med Chem. 2017 Mar 15;25(6):1795-1803
4. "Synthesis and analytical characterization of new thiazol-2-(3H)-ones as human neutrophil elastase (HNE) inhibitors". Crocetti L, Bartolucci G, Cilibrizzi A, Giovannoni MP, Guerrini G, Iacovone A, Menicatti M, Schepetkin IA, Khlebnikov AI, Quinn MT, Vergelli C.
Chem Cent J. 2017 Dec 6;11(1):127.
5. "Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases". Nocentini A, Bua S, Lomelino CL, McKenna R, Menicatti M, Bartolucci G, Tenci B, Di Cesare Mannelli L, Ghelardini C, Gratteri P, Supuran CT.
ACS Med Chem Lett. 2017 Nov 21;8(12):1314-1319.
6. "Resolution of co-eluting isomers of anti-inflammatory drugs conjugated to carbonic anhydrase inhibitors from plasma in liquid chromatography by energy-resolved tandem mass spectrometry". Menicatti M, Pallecchi M, Bua S, Vullo D, Di Cesare Mannelli L, Ghelardini C, Carta F, Supuran CT, Bartolucci G.
J Enzyme Inhib Med Chem. 2018 Dec;33(1):671-679.
7. "Combining liquid chromatography and tandem mass spectrometry approaches to the study of monoterpene glycosides (aroma precursors) in wine grape". Flamini R, Menicatti M, De Rosso M, Gardiman M, Mayr C, Pallecchi M, Danza G, Bartolucci G.
J Mass Spectrom. 2018 Sep;53(9):792-800.
8. "Synthesis, biological evaluation, and molecular modelling studies of potent human neutrophil elastase (HNE) inhibitors". Giovannoni MP, Schepetkin IA, Quinn MT, Cantini N, Crocetti L, Guerrini G, Iacovone A, Paoli P, Rossi P, Bartolucci G, Menicatti M, Vergelli C.
J Enzyme Inhib Med Chem. 2018 Dec;33(1):1108-1124.
9. "Differential Responses of Colorectal Cancer Cell Lines to Enterococcus faecalis' Strains Isolated from Healthy Donors and Colorectal Cancer Patients". De Almeida CV, Lulli M, di Pilato V, Schiavone N, Russo E, Nannini G, Baldi S, Borrelli R, Bartolucci G, Menicatti M, Taddei A, Ringressi MN, Niccolai E, Prisco D, Rossolini GM, Amedei A.

10. "Modulation of the spacer in N,N-bis(alkanol)amine aryl ester heterodimers led to the discovery of a series of highly potent P-glycoprotein-based multidrug resistance (MDR) modulators". Dei S, Braconi L, Trezza A, Menicatti M, Contino M, Coronello M, Chiaramonte N, Manetti D, Perrone MG, Romanelli MN, Udomtanakunchai C, Colabufo NA, Bartolucci G, Spiga O, Salerno M, Teodori E.
Eur J Med Chem. 2019 Jun 15;172:71-94.
11. "Benzenesulfonamides bearing spirohydantoin moieties act as potent inhibitors of human carbonic anhydrases II and VII and show neuropathic pain attenuating effects". Angeli A, Di Cesare Mannelli L, Ghelardini C, Peat TS, Bartolucci G, Menicatti M, Carta F, Supuran CT.
Eur J Med Chem. 2019 Sep 1;177:188-197.
12. "Synthesis and Evaluation of Carbonic Anhydrase Inhibitors with Carbon Monoxide Releasing Properties for the Management of Rheumatoid Arthritis". Berrino E, Milazzo L, Micheli L, Vullo D, Angeli A, Bozdog M, Nocentini A, Menicatti M, Bartolucci G, di Cesare Mannelli L, Ghelardini C, Supuran CT, Carta F.
J Med Chem. 2019 Aug 8;62(15):7233-7249.
13. "Influence of a 3-month low-calorie Mediterranean diet compared to the vegetarian diet on human gut microbiota and SCFA: the CARDIVEG Study". Pagliai G, Russo E, Niccolai E, Dinu M, Di Pilato V, Magrini A, Bartolucci G, Baldi S, Menicatti M, Giusti B, Marcucci R, Rossolini GM, Casini A, Sofi F, Amedei A.
Eur J Nutr. 2019 Jul 10.
14. "Modifications on the Amino-3,5-dicyanopyridine Core To Obtain Multifaceted Adenosine Receptor Ligands with Antineuropathic Activity". Betti M, Catarzi D, Varano F, Falsini M, Varani K, Vincenzi F, Pasquini S, di Cesare Mannelli L, Ghelardini C, Lucarini E, Dal Ben D, Spinaci A, Bartolucci G, Menicatti M, Colotta V.
J Med Chem. 2019 Aug 8;62(15):6894-6912.
15. "Antioxidant-Conjugated 1,2,4-Triazolo[4,3-a]pyrazin-3-one Derivatives: Highly Potent and Selective Human A2A Adenosine Receptor Antagonists Possessing Protective Efficacy in Neuropathic Pain". Falsini M, Catarzi D, Varano F, Ceni C, Dal Ben D, Marucci G, Buccioni M, Volpini R, Di Cesare Mannelli L, Lucarini E, Ghelardini C, Bartolucci G, Menicatti M, Colotta V.
J Med Chem. 2019 Sep 26;62(18):8511-8531.
16. "Evaluation and comparison of short chain fatty acids composition in gut diseases". Niccolai E, Baldi S, Ricci F, Russo E, Nannini G, Menicatti M, Poli G, Taddei A, Bartolucci G, Calabrò AS, Stingo FC, Amedei A.
World J Gastroenterol. 2019 Sep 28;25(36):5543-5558.
17. "Bioisosteric Development of Multitarget Nonsteroidal Anti-Inflammatory Drug-Carbonic Anhydrases Inhibitor Hybrids for the Management of Rheumatoid Arthritis". Bua S, Lucarini L, Micheli L, Menicatti M, Bartolucci G, Selleri S, Di Cesare Mannelli L, Ghelardini C, Masini E, Carta F, Gratteri P, Nocentini A, Supuran CT.
J Med Chem. 2020 Mar 12;63(5):2325-2342.

18. "Determination of coeluted isomers in wine samples by application of MS/MS deconvolution analysis". Menicatti M, Pallecchi M, Ricciutelli M, Galarini R, Moretti S, Sagratini G, Vittori S, Lucarini S, Caprioli G, Bartolucci G.
J Mass Spectrom. 2020 Nov;55(11):e4607.
19. "Susceptibility of cosmeceutical peptides to proteases activity: Development of dermal stability test by LC-MS/MS analysis". Errante F, Menicatti M, Pallecchi M, Giovannelli L, Papini AM, Rovero P, Bartolucci G.
J Pharm Biomed Anal. 2021 Feb 5;194:113775.
20. "Free Fatty Acids Signature in Human Intestinal Disorders: Significant Association between Butyric Acid and Celiac Disease". Baldi S, Menicatti M, Nannini G, Niccolai E, Russo E, Ricci F, Pallecchi M, Romano F, Pedone M, Poli G, Renzi D, Taddei A, Calabrò AS, Stingo FC, Bartolucci G, Amedei A.
Nutrients. 2021 Feb 26;13(3):742.
21. "Vaginal Lactobacilli and Vaginal Dysbiosis-Associated Bacteria Differently Affect Cervical Epithelial and Immune Homeostasis and Anti-Viral Defenses". Nicolò S, Tanturli M, Mattiuz G, Antonelli A, Baccani I, Bonaiuto C, Baldi S, Nannini G, Menicatti M, Bartolucci G, Rossolini GM, Amedei A, Torcia MG.
Int J Mol Sci. 2021 Jun 17;22(12):6487.
22. "The Gut Microbiota-Immunity Axis in ALS: A Role in Deciphering Disease Heterogeneity?". Niccolai E, Di Pilato V, Nannini G, Baldi S, Russo E, Zucchi E, Martinelli I, Menicatti M, Bartolucci G, Mandrioli J, Amedei A.
Biomedicines. 2021 Jun 29;9(7):753.
23. "Tandem mass spectrometry approaches for recognition of isomeric compounds mixtures". Crotti S, Menicatti M, Pallecchi M, Bartolucci G.
Mass Spectrom Rev. 2023 Jul-Aug;42(4):1244-1260.
24. "Intestinal microbiota profiles in a genetic model of colon tumorigenesis correlates with colon cancer biomarkers". Vitali F, Tortora K, Di Paola M, Bartolucci G, Menicatti M, De Filippo C, Caderni G.
Sci Rep. 2022 Jan 26;12(1):1432.
25. "A method for assessing plasma free fatty acids from C2 to C18 and its application for the early detection of colorectal cancer". Bartolucci G, Pallecchi M, Menicatti M, Moracci L, Pucciarelli S, Agostini M, Crotti S.
J Pharm Biomed Anal. 2022 Jun 5;215:114762.
26. "Application of LEDA algorithm for the recognition of P-glycoprotein and Carbonic Anhydrase hybrid inhibitors and evaluation of their plasma stability by HPLC-MS/MS analysis". Pallecchi M, Menicatti M, Braconi L, Supuran CT, Dei S, Teodori E, Bartolucci G.
J Pharm Biomed Anal. 2022 Sep 20;219:114887.
27. "Simultaneous Degradation Study of Isomers in Human Plasma by HPLC-MS/MS and Application of LEDA Algorithm for Their Characterization". Pallecchi M, Braconi L, Menicatti M, Giachetti S, Dei S, Teodori E,

Bartolucci G.
Int J Mol Sci. 2022 Oct 28;23(21):13139.

28. "Characterization of the "gut microbiota-immunity axis" and microbial lipid metabolites in atrophic and potential celiac disease". Ricci F, Russo E, Renzi D, Baldi S, Nannini G, Lami G, Menicatti M, Pallecchi M, Bartolucci G, Niccolai E, Cerboneschi M, Smeazzetto S, Ramazzotti M, Amedei A, Calabrò AS.
Front Microbiol. 2023 May 12;14:1165150.
29. "Isomers Recognition in HPLC-MS/MS Analysis of Human Plasma Samples by Using an Ion Trap Supported by a Linear Equations-Based Algorithm". Pallecchi M, Lucio L, Braconi L, Menicatti M, Dei S, Teodori E, Bartolucci G.
Int J Mol Sci. 2023 Jul 6;24(13):11155.
30. "Study of Mono and Di-O-caffeoylquinic Acid Isomers in Acmella oleracea Extracts by HPLC-MS/MS and Application of Linear Equation of Deconvolution Analysis Algorithm for Their Characterization". Bellumori M, Pallecchi M, Zonfrillo B, Lucio L, Menicatti M, Innocenti M, Mulinacci N, Bartolucci G.
Pharmaceuticals (Basel). 2023 Sep 28;16(10):1375.

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