CURRICULUM VITAE RICCARDO PETRELLI Ph.D.

EDUCATION AND PERSONAL STATEMENT

Riccardo Petrelli is an Associate Professor of Medicinal Chemistry, School of Pharmacy, at the University of Camerino (Academic discipline – Pharmaceutical Chemistry CHIM/08, Academic recruitment field 03/D1). He studied Chemistry and Pharmaceutical Technologies at the University of Camerino, where he also obtained his Ph.D. degree in Medicinal Chemistry in 2006 working on the synthesis and biological evaluation of NAD analogues (Thesis Title: Synthesis and biological evaluation of NMN adenylyltransferase inhibitors for the development of new chemotherapeutic agents). In September 2006 Dr. Petrelli undertook a period of two years as Postdoctoral Associate (job code 9546) at Center for Drug Design, University of Minnesota, Minneapolis, MN, USA under the supervision of Prof. Krzysztof W. Pankiewicz on a research project mainly involved in the synthesis of nucleosides and nucleotides agents as inhibitors of two key NAD-dependent enzymes, inosine monophosphate dehydrogenase (IMPDH) and NAD kinase (NADK), under the auspices of a USDOD ARMY Grant (W81XWH-05-01-0216). During this period he published a review paper (Petrelli, R. *et al. Curr. Med. Chem*., 2008, *15*, 650-670) which has obtained the "Front cover" of issues 7-10, volume 15 of *Current Medicinal Chemistry*. Back at the University of Camerino, he was appointed as Fixed Term Researcher A in June 2009 (RTD-A art. 24 c.3-a L. 240/10, School of Pharmacy, Medicinal Chemistry Unit, Academic discipline – Pharmaceutical Chemistry CHIM/08, Academic recruitment field 03/D1) and as Fixed Term Researcher B in June 2014 (RTD-B art. 24 c.3-a L. 240/10, School of Pharmacy, Medicinal Chemistry Unit). In June 2011 he spent another period of four months as Visiting Professor at Center for Drug Design, University of Minnesota, Minneapolis, MN, USA under the supervision of Prof. Courtney C. Aldrich on a research project mainly involved in the synthesis of nucleoside analogues as antituberculosis agents (title "Design of Antituberculosis Agents that Target Biotin Metabolism"- NIH Grant AI091790). In 2013 (from February 18 to March 22) and 2014 (from February 1 to February 16) he taught "Medicinal Chemistry I" at the Biomedical Sciences School of University of Dschang, Cameroon (Africa), within an international cooperation project between University of Camerino, University of Urbino and University of Dschang, aimed to create a new Faculty of Pharmacy at Dschang.

RESEARCH ACTIVITY

His scientific interests focus on: 1) enzyme inhibitors involved in NAD pathways; 2) nucleosides and nucleotides as antitumor and antiviral agents and their prodrugs; 3) adenosine receptor ligands and 4) natural products research, traditional medicine, ethnobotany, and phytochemistry. He is co-author of **96** scientific publications in leading international journals mainly related to the synthesis of nucleoside/nucleotide analogs and naturally-occurring compounds, **1** Full U.S. Patent Application (US 2012/0329747 A1, entitled: *Novel Hydrazone derivatives having potent antitumor activity toward multi-drug resistant tumor cells*), **80** poster communications at national and international meetings and **14** oral communications. He has authored a book chapter entitled "*Novel inhibitors of Inosine Monophosphate Dehydrogenase as potential anti-cancer drugs: a patent review (2002-2013)*". In: Topics in Anti-Cancer Research **2014**, Volume 3 Editor: Bentham Science Publishers USA. His publications have been cited nearly **2000 times** and his H-index is **26** (source: Scopus). From 2015 to 2020 he has published 46 papers and his H-index is 15. He is a Guest Editor of a Special Issue on *Molecules* entitled "Featured Reviews on Bioactive Flavour and Fragrance Compounds" and on *Antibiotics* entitled "Antiprotozoal Activity of Natural Products".

GRANTS

Participation in scientific research projects receiving funding on the basis of competitive calls involving the peer review:

- He is a Local Scientific Coordinator of a research project financed by Regione Marche - PSR, Programma di Sviluppo Rurale della Regione Marche **2014/2020** – Bando Sottomisura 16.1 Operazione A 'Sostegno alla creazione e al funzionamento di Gruppi Operativi del PEI', Azione 2 'Finanziamento dei Gruppi Operativi'. Project title: CANAPA REVOLUTION: Cannabidiol extraction from the industrial hemp as implementation of the crop profitability, in collaboration with the farm COOP CANAPA. Project cost: € 320.000

- He is a Local Scientific Coordinator of a research project financed by the National Minister of University and Scientific Research (**PRIN 2017**) on NAD-dependent enzymes (title "Understanding and targeting the extracellular NADome in inflammation" project n. 2017CBNCYT_005). Project cost: € 124.550

- He has been Local Scientific Coordinator of a research project financed by National Minister of University and Scientific Research (**PRIN 2009**) on neuropathic pain (title "Spinal and supraspinal bio-molecular, neuro-immune, neurophysiological and morphological changes in a murine model of neuropathic pain: therapeutic opportunities through systemic administration of human mesenchymal stem cells and modulation of the purinergic system" project n. 200928EEX4_004). A published paper on neuropathic pain based on the PRIN subject (*J. Med. Chem.* 2009, 52, 2393-2406) has been cited by Nature (SciBX 2(14); doi:10.1038/scibx.2009.592) and has been praised by local and international newspapers. Project cost: € 50.864

- Coordinator of Medicinal Chemistry Unit of the project "FAR" (University of Camerino Research Projects – **Year 2018-2019**) entitled: *Cannabis sativa by-products as a source of repellents and insecticides. Hemp derivatives-based new formulations for effective, safe and eco-friendly applications in human health and agriculture.* PI: Massimo Nabissi. Project cost: € 36.500

- Coordinator of Medicinal Chemistry Unit of the project "FAR" (University of Camerino Research Projects – **Year 2014-2015**" entitled '*Chemical and biological characterization of essential oils for the development of multi-functional innovative products targeting skin disorders*'. PI: Filippo Maggi. Project cost: € 34.500

- Coordinator of Medicinal Chemistry Unit of the project "FAR" (University of Camerino Research Projects – **Year 2011-2012**) entitled "*Smart polymeric materials for eco-friendly antimicrobial application*". PI: Fabio Marchetti. Project cost: € 56.000

- Participant of a research project financed by the National Minister of University and Scientific Research (**PRIN 2006** n. 2006030430_001) entitled "*Progettazione, sintesi, e valutazione biologica di inibitori della IMP deidrogenasi e della ribonucleotide riduttasi quali potenti agenti antitumorali e induttori di apoptosi*". Project cost: € 64.000

- Participant of a research project financed by the National Minister of University and Scientific Research (**PRIN 2005**, n. 2005055378002) entitled "*Characterization of key enzymes of NAD(P) biosynthesis in bacteria and their regulation: essential steps to find new drugs*". Project cost: € 60.000

ORGANISATION OF SCIENTIFIC MEETINGS

- Member of the Organizing Committee of the International meeting "*THIRD JOINT ITALIAN-GERMAN PURIN CLUB MEETING Purinergic Receptors: New Frontiers for Novel Therapies*", held in Camerino on July 17-20, **2009**.
- Member of the Organizing Committee of 33th Cyprus-Noordwijkerhout-Camerino Symposium "*Receptor Chemistry: Reality and Vision*" held in Camerino, on May 15-19, **2016**.
- Member of the Organizing Committee of CHIMALI 2108-XII Italian Food Chemistry Congress held in Camerino, on September 24-27, **2018**.

SPIN-OFF

- Since 2013, he is a co-founder member of the University of Camerino spin-off ProHerbalCARE. PROHerbalCARE is a non-profit enterprise initiative launched by 13 young researchers of the University of Camerino, originating from ten different countries of the world with diversified scientific and cultural background. PROHerbalCARE's scope is to develop and produce innovative products exploiting the biological properties of medicinal plants and probiotic bacteria.

MEMBERSHIP OF SCIENTIFIC SOCIETIES AND AFFILIATION TO FOREIGN UNIVERSITIES

- Member of International Society of Nucleosides, Nucleotides and Nucleic Acid, Medicinal Chemistry Division of Italian Chemical Society and of the Italian Purine Club, collaborates with several Italian and foreign researchers and serves as a peer reviewer for many Medicinal Chemistry Journals.
- Member of Faculty Staff, Center for Drug Design, University of Minnesota, Minneapolis (USA) (https://drugdesign.umn.edu/faculty-staff/alumni).

SUPERVISION OF STUDENTS

- Supervisor of several Bachelor's/Master's Theses on topics mainly related to Medicinal Chemistry and drug discovery and of four Ph.D. candidates in Pharmaceutical Sciences, School of Advanced Studies (SAS), University of Camerino.

KEYWORDS: medicinal chemistry; small-molecules; essential oils; naturally-occurring compounds, NAD-dependent enzymes; secondary plant metabolites; bioactive-active fractionation, phytochemicals; ethnopharmacology; biological activity of natural compounds.

WEBSITE: https://docenti.unicam.it/pdett.aspx?ids=N&tv=d&UteId=541

List of publications (96)

1. Franchetti, P.; Pasqualini, M.; **Petrelli, R.**; Ricciutelli, M.; Vita, P.; Cappellacci, L.
   Stereoselective Synthesis of Nicotinamide β-riboside and Nucleoside Analogs.
   WOS:000223709400011; Scopus: 2-s2.0-8544253230
   Bioorg. Med. Chem. Lett., **2004**, 14, 4655-4658. DOI: 10.1016/j.bmcl.2004.06.093
   [IF = 2.48; PSC = 29/60, SC = Chemistry, Medicinal; Q2]

2. Franchetti, P.; Cappellacci, L.; Pasqualini, M.; **Petrelli, R.**; Jayaprakasan, V.; Jayaram, H.N.; Boyd, D.B.; Jain, M.D.; Grifantini, M.
   Synthesis, conformational analysis, and biological activity of new analogues of thiazole-4-carboxamide adenine dinucleotide (TAD) as IMP dehydrogenase inhibitors.

WOS:000227576700015; Scopus: 2-s2.0-13844311803
Bioorg. Med. Chem., **2005**, 13, 2045-2053. DOI: 10.1016/j.bmc.2005.01.007
[IF = 2.92; PSC = 22/60, SC = Chemistry, Medicinal; Q2]

3. Cappellacci, L.; Franchetti, P.; Pasqualini, M.; **Petrelli, R.**; Vita, P.; Lavecchia, A.;Novellino, E.; Costa, B.; Martini, C.; Klotz, K.N.; Grifantini, M.
Synthesis, biological evaluation and molecular modeling of ribose-modified adenosine analogues as adenosine receptors agonists.
WOS:000227392200026; Scopus: 2-s2.0-20144369886
J. Med. Chem., **2005**, 48, 1550-1562. DOI: 10.1021/jm049408n
[IF = 5.59; PSC = 3/60, SC = Chemistry, Medicinal; Q1]

4. Franchetti, P.; Cappellacci, L.; Pasqualini, M.; **Petrelli, R.**; Vita, P.; Jayaram, H.N.; Horvath, Z.; Szekeres, T.; Grifantini, M.

Antitumor activity of *C*-methyl-*β*-D-ribofuranosyladenine nucleoside ribonucleotide reductase inhibitors.
WOS:000230800300026; Scopus: 2-s2.0-22744446291
J. Med. Chem., **2005**, *48*, 4983-4989. DOI: 10.1021/jm048944c
[IF = 5.59; PSC = 3/60, SC = Chemistry, Medicinal; Q1]

5. Franchetti, P.; Cappellacci, L.; Pasqualini, M.; **Petrelli, R.**; Vita, P.; Jayaram, H.N.; Horvath, Z.; Szekeres, T.; Grifantini, M.
The antitumor effects of 3'-methyl-adenosine mediated by inhibition of ribonucleotide reductase.
WOS:000234510900028
Intern. Proceedings of the Austrian-German-Hungarian-Italian-Polish-Spanish Joint Meeting on Medicinal Chemistry, Vienna (Austria) June 20-23, **2005**, p. 143-146. Eds P. Ettmayer and G. Ecker. Medimond S.r.l.
Ref. code:20050620. ISBN: 978-88-7587-162-8 [SC = Oncology]

6. Franchetti, P.; **Petrelli, R.**; Cappellacci, L.; Pasqualini, M.; Vita, P.; Sorci, L.; Mazzola, F.; Raffaelli, N.; Magni, G.
Synthesis and biological evaluation of NAD analogs as human pyridine nucleotide adenylyltransferase inhibitors.
WOS:000232473500029; Scopus: 2-s2.0-26644465105
Nucleosides, Nucleotides & Nucleic Acids, **2005**, *24*, 477-479. DOI: 10.1081/NCN-200060013
[IF = 1.02; PSC = 250/412, SC = Biology Biochemistry & Biochemistry; Q3]

7. Franchetti, P.; Pasqualini, M.; Cappellacci, L.; **Petrelli, R.**; Vita, P.; Jayaram, H.N.; Grifantini, M.
Ribose-modified mizoribine analogues: synthesis and biological evaluation.
WOS:000234060900039; Scopus: 2-s2.0-29244456777
Nucleosides, Nucleotides & Nucleic Acids, **2005**, *24*, 2023-2027. DOI: 10.1080/15257770500334673
[IF = 1.02; PSC = 250/412, SC = Biology Biochemistry & Biochemistry; Q3]

8. Cappellacci, L.; Franchetti, P.; Riccioni, S.; **Petrelli, R.**; Vita, P.; Jayaram, H. N.; Grifantini, M.
Purine and pyrimidine nucleoside analogs of 3'-*C*-methyladenosine as antitumor agents.
WOS:000239593900012; Scopus: 2-s2.0-33748929329
Coll. Czech. Chem. Comm., **2006**, *71*, 1088-1098. DOI: 10.1135/cccc20061088
[IF = 1.13; PSC = 93/148, SC = Chemistry, Multidisciplinary; Q3]

9. Sorci, L.; Cimadamore, F.; Scotti, S.; **Petrelli, R.**; Cappellacci, L.; Franchetti, P.; Orsomando, G.; Magni, G.
Initial-rate kinetics of human NMN-adenylyltransferases: substrate and metal ion specificity, inhibition by-products and multisubstrate analogues, and isozyme contributions to NAD+ biosynthesis.
WOS:000245735900022; Scopus: 2-s2.0-34247500849
Biochemistry, **2007**, *46*, 4912-4922. DOI: 10.1021/bi6023379

[IF = 2.87; PSC = 129/289, SC = Biochemistry & Molecular Biology; Q2]

10. Franchetti, P.; Cappellacci, L.; **Petrelli, R.**; Vita, P.; Grifantini, M.; Rossi, L.; Pierigé, F.; Serafini, S.; Magnani, M.; Balestra, E.; Perno, C.F.
Inhibition of HIV-1 replication in macrophages by red blood cell-mediated delivery of a heterodinucleotide of lamivudine and tenofovir.
WOS:000251875400019; Scopus: 2-s2.0-36849017392
Nucleosides, Nucleotides & Nucleic Acids, **2007**, *26*, 953-957. DOI: 10.1080/15257770701508067
[IF = 1.02; PSC = 250/412, SC = Biology Biochemistry & Biochemistry; Q3]
11. Cappellacci, L.; Franchetti, P.; Vita, P.; **Petrelli, R.**; Lavecchia, A.; Costa, B.; Spinetti, F.; Martini, C.; Klotz, K.N.; Grifantini, M.
5'-Carbamoyl derivatives of 2'-*C*-methyl-purine nucleosides as selective A_1 adenosine receptor agonists: affinity, efficacy, and selectivity for A_1 receptor from different species.
WOS:000253345400035; Scopus: 2-s2.0-38049083924
Bioorg. Med. Chem., **2008**, *16*, 336-353. DOI: 10.1016/j.bmc.2007.09.035
[IF = 2.92; PSC = 20/59, SC = Chemistry, Medicinal; Q2]

12. Chen, L.; **Petrelli, R.**; Felczak, K.; Gao, G.; Bonnac, L.; Yu, J.S.; Bennett, E.M,.; Pankiewicz, K.W.
Nicotinamide adenine dinucleotide based therapeutics.
WOS:000253990600003; Scopus: 2-s2.0-42049105745
Curr. Med. Chem., **2008**, *15*, 650-670. DOI: 10.2174/092986708783885282
[IF = 3.45; PSC = 10/59, SC = Chemistry, Medicinal; Q1]

13. Chen, L.; **Petrelli, R.**; Felczak, K.; Olesiak, M.; Rejman, D.; Bennett, E. M.; Magni, G.; Pankiewicz, K.W.
Novel cofactor-type inhibitors of NAD-dependent enzymes. NAD-based therapeutics.
Coll. Czech. Chem. Comm. Symposium Series, **2008**, *10*, 71-79.
WOS:000257885700009
http://dx.doi.org/10.1135/css200810071 DOI: doi.org/10.1135/css200810071
[IF = 1.13; PSC = 93/148, SC = Chemistry, Multidisciplinary; Q3]

14. Cappellacci, L.; Franchetti, P.; Vita, P.; **Petrelli, R.**; Grifantini, M.
Synthesis and antitumor activity of a heterodinucleotide of BVDU and Gemcitabine.
WOS:000257030500004; Scopus: 2-s2.0-45849085773
Nucleosides Nucleotides & Nucleic Acids, **2008**, *5*, 460-468. DOI: 10.1080/15257770802088787
[IF = 1.02; PSC = 250/412, SC = Biology Biochemistry & Biochemistry; Q3]

15. Ko, H.; Carter, R.; Cosyn, L.; **Petrelli, R.**; De Castro, S.; Besada, P.; Zhou, Y.; Cappellacci, L.; Franchetti, P.; Grifantini, M.; Van Calenbergh, S.; Harden, T. K.; Jacobson, K. A.
Synthesis and potency of novel uracil nucleotides and derivatives as P2Y2 and P2Y6 receptor agonists.
WOS:000256573600002; Scopus: 2-s2.0-44849086821
Bioorg. Med. Chem., **2008**, *16*, 6319–6332. DOI: 10.1016/j.bmc.2008.05.013
[IF = 2.92; PSC = 20/59, SC = Chemistry, Medicinal; Q2]

16. Chen, L.; **Petrelli, R.**; Olesiak, M.; Wilson, D.J.; Labello, N.P.; Pankiewicz, K.W.
Bis(sulfonamide) isosters of mycophenolic adenine dinucleotide analogues. inhibition of inosine monophosphate dehydrogenase.
WOS:000258749500043; Scopus: 2-s2.0-48449098290
Bioorg. Med. Chem., **2008**, *16*, 7462-7469. DOI: 10.1016/j.bmc.2008.06.003
[IF = 2.92; PSC = 22/60, SC = Chemistry, Medicinal; Q2]

17. Cappellacci, L.; Franchetti, P.; Vita, P.; **Petrelli, R.**; Lavecchia, A.; Jayaram, H.N.; Saiko, P.; Graser,G.; Szekeres, T.; Grifantini M.
Ribose-modified purine nucleosides as ribonucleotide reductase inhibitors. synthesis, antitumor activity, and molecular modeling of N(6)-substituted 3'-*C*-methyladenosine derivatives.

WOS:000257721600020; Scopus: 2-s2.0-47749127689
J. Med. Chem., **2008**, *51*, 4260–4269. DOI: 10.1021/jm800205c
[IF = 5.59; PSC = 3/60, SC = Chemistry, Medicinal; Q1]

18. Franchetti, P.; Cappellacci, L.; Vita, P.; **Petrelli, R.**; Lavecchia, A.; Kachler, S.; Klotz, K.-N.;Marabese, I.; Luongo, L.; Maione, S.; Grifantini, M.
N^6-Cycloalkyl-, and N^6-Bicycloalkyl-*C5*'(*C*2')-Modified Adenosine Derivatives as High-Affinity and Selective Agonists at Human A_1 Adenosine Receptor with Antinociceptive Effects in Mice.
WOS:000265292700025; Scopus: 2-s2.0-65249110272
J. Med. Chem., **2009**, *52*, 2393-2406. DOI: 10.1021/jm801456g
[IF = 5.59; PSC = 3/60, SC = Chemistry, Medicinal; Q1]

19. **Petrelli, R.**; Sham, Y.Y.; Chen, L.; Felczak, K.; Bennett, E.; Wilson, D.; Aldrich, C.; Yu, J.S.; Cappellacci, L.; Franchetti, P.; Grifantini, M.; Mazzola, F.; Di Stefano, M.; Magni, G.; Pankiewicz, K.W.
Selective inhibition of nicotinamide adenine dinucleotide kinases by dinucleoside disulfide mimics of nicotinamide adenine dinucleotide analogues.
WOS:000268099700034; Scopus: 2-s2.0-67651102849
Bioorg. Med. Chem., **2009**, *17*, 5656-5664. DOI: 10.1016/j.bmc.2009.06.013
[IF = 2.92; PSC = 22/60, SC = Chemistry, Medicinal; Q2]

20. Chen, L.; **Petrelli, R.**; Gao, G.Y.; Wilson, D.J.; Mclean, G.T.; Jayaram, H.N; Sham,Y.Y.; Pankiewicz, K.W.
Dual inhibitors of inosine monophosphate dehydrogenase and histone deacetylase based on a cinnamic hydroxamic acid core structure
WOS:000280664100019; Scopus: 2-s2.0-77955466735
Bioorg. Med. Chem., **2010**, 18, 5950-5964. DOI: 10.1016/j.bmc.2010.06.081
[IF = 2.92; PSC = 22/60, SC = Chemistry, Medicinal; Q2]

21. Felczak, K.; Chen, L.; Wilson, D.; Williams, J.; Vince, R.; **Petrelli, R.**; Jayaram, H.N.; Kusumanchi, P.; Kumar, M.; Pankiewicz, K.W.
Cofactor-type inhibitors of inosine monophosphate dehydrogenase via modular approach: Targeting the pyrophosphate binding sub-domain
WOS:000287740200003; Scopus: 2-s2.0-79952192915
Bioorg. Med. Chem., **2011**, *19*, 1594-1605. DOI: 10.1016/j.bmc.2011.01.042
[IF = 2.92; PSC = 20/59, SC = Chemistry, Medicinal; Q2]

22. Meli, M.; Tolomeo, M.; Grifantini, M.; Mai, A.; Cappellacci, L.; **Petrelli, R.**; Rotili, D.; Ferro, A.; Saiko, P.; Szekeres, T.; Dusonchet, L.
Histone deacetylase inhibition modulates deoxyribonucleotide pools and enhances the antitumor effects of the ribonucleotide reductase inhibitor 3'-*C*-methyladenosine in leukaemia cells.
WOS:000290611200008; Scopus: 2-s2.0-79957944139
Int. J. Oncol., **2011**, 38, 1427-1436. DOI: 10.3892/ijo.2011.943
[IF = 3.02; PSC = 100/213, SC = Oncology; Q2]

23. Cappellacci, L.; **Petrelli, R.**; Franchetti, P.; Vita, P.; Kusumanchi, P.; Kumar, M.; Jayaram, H.N.; Zhou, B.; Yun Yen, Y.; Grifantini, M.
Synthesis and biological activity of novel N^6-substituted and 2,N^6-disubstituted adenine ribo- and 3'-*C*-methyl-ribonucleosides as antitumor agents.
WOS: 000289655100005; Scopus: 2-s2.0-79953165649
Eur. J. Med. Chem., **2011**, *46*, 1499-1504. DOI: 10.1016/j.ejmech.2011.01.055
[IF = 3.91; PSC = 6/60, SC = Chemistry, Medicinal; Q1]

24. **Petrelli, R.**; Felczak, K.; Cappellacci, L.
NMN/NaMN Adenylyltransferase (NMNAT) and NAD Kinase (NADK) Inhibitors: Chemistry and Potential Therapeutic Applications

WOS:000290611200008; Scopus: 2-s2.0-79957944139
Curr. Med. Chem., **2011**, *18*, 1973-1992. DOI: 10.2174/092986711795590048
[IF = 3.45; PSC = 10/59, SC = Chemistry, Medicinal; Q1]

25. Luongo, L.; **Petrelli, R.**; Gatta, L.; Giordano, C.; Guida, F.; Vita, P.; Franchetti, P.; Grifantini, M.; De Novellis, V.; Cappellacci, L.; Maione, S.
5'-Chloro-5'-deoxy-(±)-ENBA, a Potent and Selective Adenosine A1 Receptor Agonist, Alleviates Neuropathic Pain in Mice Through Functional Glial and Microglial Changes without Affecting Motor or Cardiovascular Functions.
WOS: 000312608200002; Scopus: 2-s2.0-84871587889
Molecules, **2012**, 17, 13712-13726. DOI: 10.3390/molecules171213712
[IF = 2.46; PSC = 24/59 SC = Chemistry, Organic; Q2]

26. **Petrelli, R.**; Vita, P.; Torquati, I.; Felczak, K.; Wilson, D.J.; Franchetti, P.; Cappellacci, L.
Novel Inhibitors of Inosine Monophosphate Dehydrogenase in Patent Literature of the Last Decade.
WOS: 000320372400001; Scopus: 2-s2.0-84875313971
Recent Pat. Anti-Cancer Drug Discov.,**2013**, *8*, 212-232. DOI: 10.2174/157489213805290600
[IF = 3.53; PSC = 62/255, SC = Pharmacology & Pharmacy; Q1]

27. Luongo, L.; Guida, F.; Imperatore, R.; Napolitano, F.; Gatta, L.; Cristino, L.; Giordano, C.; Siniscalco, D.; Di Marzo, V.; Bellini, G.; **Petrelli, R.**; Cappellacci, L.; Usiello, A.; de Novellis, V.; Rossi, F.; Maione, S.
The A_1 adenosine receptor as a new player in microglia physiology.
WOS: 000327235200010; Scopus: 2-s2.0-84888095330
Glia **2014**, *62*, 122-132. DOI: 10.1002/glia.22592
[IF = 6.03; PSC = 26/252, SC = Neurosciences; Q1]

28. Mango, D.; Bonito-Oliva, A.; Ledonne, A.; Cappellacci, L.; **Petrelli, R.**; Nisticò, R.; Berretta, N.; Fisone, G.; Mercuri, N.B.
Adenosine A1 receptor stimulation reduces D1 receptor-mediated GABAergic transmission from striato-nigral terminals and attenuates L-DOPA-induced dyskinesia in dopamine-denervated mice.
WOS: 000343531500079; Scopus: 2-s2.0-84908519070
Exp. Neurol. **2014**, *261*, 733-743. DOI: 10.1016/j.expneurol.2014.08.022
[IF = 4.69; PSC = 47/252, SC = Neurosciences; Q1]

29. **Petrelli, R.**; Meli, M.; Vita, P.; Torquati, I.; Ferro, A.; Vodnala, M.; D'Alessandro, N.; Tolomeo, M.; Del Bello, F.; Kusumanchi, P.; Franchetti, P.; Grifantini, M.; Jayaram, H.N.; Hofer, A.; Cappellacci, L.
From the covalent linkage of drugs to novel inhibitors of ribonucleotide reductase: Synthesis and biological evaluation of valproic esters of 3'-C-methyladenosine.
WOS: 000343901400035; Scopus: 2-s2.0-84908431639
Bioorg. Med. Chem. Lett., **2014**, *24*, 5304-5309. DOI: 10.1016/j.bmcl.2014.09.046
[IF = 2.48; PSC = 31/59, SC = Chemistry, Medicinal; Q2]

30. Bonifazi, A.; Yano, H.; Del Bello, F.; Farande, A.; Quaglia, W.; **Petrelli, R.**; Matucci, R.; Nesi, M.; Vistoli, G.; Ferré, S.; Piergentili, A.
Synthesis and Biological Evaluation of a Novel Series of Heterobivalent Muscarinic Ligands Based on Xanomeline and 1-[3-(4-Butylpiperidin-1-yl)propyl]-1,2,3,4-tetrahydroquinolin-2-one (77-LH-28-1).
WOS: 000344977400027; Scopus: 2-s2.0-84923829087
J. Med. Chem., **2014**, *57*, 9065-9077. DOI: 10.1021/jm501173q
[IF = 5.59; PSC = 3/59, SC = Chemistry, Medicinal; Q1]

31. **Petrelli, R.**; Torquati, I.; Kachler, S.; Luongo, L.; Maione, S.; Franchetti, P.; Grifantini, M.; Novellino, E.; Lavecchia, A.; Klotz, K.-N.; Cappellacci, L.
5'- *C* -Ethyl-Tetrazolyl-N^6-Substituted Adenosine and 2-Chloro-Adenosine Derivatives as Highly Potent Dual Acting A_1 Adenosine Receptor Agonists and A_3 Adenosine Receptor Antagonists.

WOS: 000351186500039; Scopus: 2-s2.0-84924678339
J. Med. Chem., **2015**, *58*, 2560-2566. DOI: 10.1021/acs.jmedchem.5b00074
[IF = 5.59; PSC = 3/59, SC = Chemistry, Medicinal; Q1]

32. Pankiewicz, K.W.; **Petrelli, R.**; Singh, R.; Felczak, K.
Nicotinamide Adenine Dinucleotide Based Therapeutics, Update
WOS: 000365405900010; Scopus: 2-s2.0-84957548626
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