

Andrea Spinaci

PERSONAL

EDUCATION

31/03/2017

PhD in Chemical and Pharmaceutical Sciences and Biotechnology
University of Camerino, Camerino

07/03/2013

Master degree, Pharmaceutical Chemistry and Technology
University of Camerino, Camerino
Vote: 105/110

06/2007

High School Diploma – Liceo Scientifico
Liceo Scientifico “Galileo Galilei” Macerata

EMPLOYMENT

1/10/2017– Current

Research Fellowship in Medicinal Chemistry
“*Sintesi innovative di farmaci adenosinici per la terapia delle malattie neurodegenerative.*”
University of Camerino, Camerino (Italy)

1/02/2017–31/07/2017

Post-Doc Fellowship in Medicinal Chemistry
University of Camerino, Camerino (Italy)

1/02/2017-31/07/2017

Internship in Laboratory of Forensic Toxicology and Forensic Medicine
University of Macerata, Macerata (Italy)

1/02/2014 – 31/01/2017

PhD in Chemical and Pharmaceutical Sciences and Biotechnology
Title of the thesis: “*Design, synthesis, and characterization of new p1 receptor ligands.*”
University of Camerino, Camerino (Italy)

08/03/2013–07/07/2013

Post-graduate fellowship in Medicinal Chemistry
University of Camerino, Camerino (Italy)

05/03/2012–05/03/2013

Experimental Thesis in Medicinal Chemistry
Title of the thesis: “*Multitarget-ligands as advantageous tools in reducing the opiate withdrawal syndrome and related comorbidities.*”
Università di Camerino, Camerino (Italy)

01/06/2011–30/01/2012

Apprenticeship in Pharmacy

Farmacia Cairoli, Fabrizio Buglioni, Macerata (Italy)

**DIDACTICAL
EXPERIENCE**

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry, “*sintesi e caratterizzazione di nuovi derivati dei recettori adenosinici*”;

Graduate Student: Fabiana Spadola

Supervisor: Prof. Rosaria Volpini, **Dr Andrea Spinaci** (a.a. 2020-2021)

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry, “*Nuovi derivati 2-sostituiti dell’adenosina come ligandi dei recettori adenosinici A_{2A}*”, a.a. 2018-2019;

Graduate Student: Anna Giacometti

Supervisor: Prof. Rosaria Volpini, **Dr Andrea Spinaci** (a.a. 2017-2018)

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry, “*Nuovi derivati trisostituiti dell’adenina come ligandi dei recettori adenosinici*”

Graduate Student: Elena Guccione

Supervisor: Prof. Rosaria Volpini, **Dr Andrea Spinaci** (a.a. 2018-2019)

Supervisor of Experimental Thesis

Degree in Scientific Information on Pharmaceuticals (L-29); Experimental Thesis in Medicinal Chemistry, “*Sintesi di nuovi ligandi adenosinici*”

Graduate Student: Graziana Dimauro

Supervisor: Prof. Rosaria Volpini, **Dr Andrea Spinaci** (a.a. 2019-2020)

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry “*Adenosine 2,N⁶-disostituite come ligandi del recettore adenosinico a₃ umano con potenziale attivita’ antitumorale*”

Graduate Student: Ludovica Mariani,

Supervisor: Prof. Rosaria Volpini, **Dr Andrea Spinaci** (a.a. 2017-2018)

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry “*Sintesi e caratterizzazione di analoghi dell’ATP come antagonisti del recettore P2X₃*”

Graduate Student: Fabiola Paoletti,

Supervisor: Prof. Catia Lambertucci, **Dr Andrea Spinaci** (a.a. 2016-2017)

Supervisor of Experimental Thesis

Master Degree in Pharmacy (LM-13); Experimental Thesis in Medicinal Chemistry “*Derivati disostituiti della 9-etileadenina come nuovi antagonisti del recettore adenosinico A_{2A}*”

Graduate Student: Valeria Marcantoni,

Supervisor: Prof. Catia Lambertucci, **Dr Andrea Spinaci** (a.a. 2016-2017)

12/03/2019 – 18/04/2019

Tutor in Medicinal Chemistry Lab
University of Camerino, Camerino (Italy)

13/04/2015 – 29/04/2015

Tutor in Drug Quantitative Analysis Course
University of Camerino, Camerino (Italy)

15/11/2018 – 15/11/2021

Cultore della material per gli insegnamenti:
Chimica Farmaceutica e Tossicologica I
Analisi dei Farmaci II

**INTERNATIONAL
EXPERIENCE**

01/05/2016 – 11/09/2016

Mobility periods abroad
Institute of Medical Science (IMS)
Supervisor: Prof. Matteo Zanda
University of Aberdeen, Aberdeen (United Kingdom)

SKILLS

Language – Good: English, mother tongue: Italian

Computer Skills - Microsoft Office, TopSpin and CMC-A Software for NMR spectra analysis, ChemBioDraw, Acrobat Reader, Xcalibur LC/GC-MS Software, pKcsm Software

Synthetic Skills - Nucleophilic aromatic substitution, cross-coupling reaction (Sonogashira coupling, Suzuki reaction), Sandmeyer reaction, nucleoside and nucleotide synthesis, oxychlorination, allylic oxidation, protecting group reaction, glycosylation, reduction and oxidation.

Purification Skills – Gravimetric and flash chromatography, reversed phase chromatography, ion exchange chromatography, HPLC, crystallization, liq-liq extraction, distillation, preparation of dry solvents.

Characterization Skills – ¹H-NMR and ¹³C-NMR spectra analysis, IR-spectra analysis; UV-spectra analysis; polarimetric analysis; GC-mass analysis and HPLC-MS analysis.

Instrumentation Use Ability - Bruker AVANCE III 400/500 NMR spectrometer, ESI-MS, LC/GC-MS Agilent, Thermo Orbitrap LC-MS, BUCHI melting point, DSX™ Automated Four-Plate ELISA System

Biological data analysis – Interpretation of binding affinity data and functional activity at cells culture or ex vivo assay, Elisa data analysis, preliminary multi drug test analysis for drug abuse compounds (THC, amphetamine, morphine, cocaine, etc), alcoholemia misuration.

Sample Preparation – Preparation and extraction from biological material (blood, hair, urine, bile) of substances of abuse by liq-liq extraction, SPE column; silyl derivatization, acid or enzymatic glucuronide hydrolysis.

**ATTENDED
CONFERENCE AND
SEMINAR**

4/02/2021

Riunione Annuale del Purine Club Italiano
Virtual Conference

13/10/2020

Autumn Meeting for Young Chemists in Biomedical Sciences
Università di Napoli – Virtual Conference

27/01/2020

Riunione Annuale del Purine Club Italiano
Università di Ferrara - Ferrara

04-07/09/2019

1st European Purine Meeting
Universidad Santiago de Compostela, Spain

18/01/2019

Riunione Annuale del Purine Club Italiano
Università di Firenze - Firenze

5/10/2018

XXXVI CONVEGNO INTERREGIONALE TUMA 2018
Centro Congressi “Le Benedettine”, Pisa

25-28/10/2017

38° Congresso nazionale società italiana di Farmacologia
Palacongressi Rimini

16/5/2017

LC-MS/MS: applicazioni per l'analisi di molecole endogene ed esogene.
SCIEX, SeePort Hotel, Ancona

15/1/2016

Riunione Annuale del Purine Club Italiano
Istituto Superiore della Sanità, Roma

29/06/2014–03/07/2014

Thematic course: European School of Medicinal Chemistry
University of Urbino Carlo Bo

26/06/2015-30/06/2015

Thematic course: European School of Medicinal Chemistry
University of Urbino Carlo Bo

27/10/2015

Sigma-Aldrich Young Chemists Symposium (SAYCS 2015) SCI
Società Chimica Italiana, Rimini

23-25/09/2015

**TUMA XXXIV – Convegno delle sezioni Toscana Umbria Marche
Abruzzo della Società Chimica Italiana**

Società Chimica Italiana, Perugia

11/06/2015

Statistics and Data Management

Speaker: Mauro Angeletti

University of Camerino

16/10/2015

Innovation management: how to manage and develop innovative projects at industrial level

Speaker: Cristina Cristalli

University of Camerino

14/10/2015

Writing a grant proposal

Speaker: Ciro Franco

University of Camerino

15/10/2015

Job Hunt

Speaker: Micheal Zebrak

University of Camerino

12/10/2015

Proprietà intellettuale e comunicazione scientifica nella società dell'informazione

Speaker: Avv. Simone Alipardi

University of Camerino

10/02/2015

Farmaci per il trattamento delle malattie virali

Speaker: Romano Silvestri

University of Camerino

MEMBERSHIP

Società Chimica Italiana (SCI)

Sezione Chimica Farmaceutica

Purine Club Italiano

Rappresentante elettivo degli assegnisti al consiglio della Scuola di Scienze del Farmaco e dei Prodotti della Salute

PUBLICATIONS

- 1) **Spinaci, A.**; Dal Ben, D.; Lambertucci, C.; Buccioni, M.; Marti Navia, A.; Marucci, G.; Volpini, R., "P2X3 Receptor Ligands: Structural Features and Potential Therapeutic Applications", *Frontiers in Pharmacology*, **2021**

IF: 4,22

2) Marucci, G.; Dal Ben, D.; Lambertucci, C.; Marti Navia, A.; **Spinaci, A.**; Volpini, R., Buccioni, M., "Combined Therapy of A1AR Agonists and A2AAR Antagonists in Neuroinflammation", *Molecules* (Basel, Switzerland), **2021**

IF: 3.26

3) Antonioli, L., Lucarini, E., Lambertucci, C., Fornai, M., Pellegrini, C., Benvenuti, L., Di Cesare Mannelli, L., **Spinaci, A.**, Marucci, G., Blandizzi, C., Ghelardini, C., Volpini, R. & Dal Ben, D.
"The Anti-Inflammatory and Pain-Relieving Effects of AR170, an Adenosine A3 Receptor Agonist, in a Rat Model of Colitis", *Cells* **2020**.

IF: 4.36

4) Martí Navia, A., Dal Ben, D., Lambertucci, C., Spinaci, A., Volpini, R., Marques-Morgado, I., Coelho, J.E., Lopes, L.V., Marucci, G. & Buccioni, M., "Adenosine Receptors as Neuroinflammation Modulators: Role of A₁ Agonists and A_{2A} Antagonists", *Cells*, **2020**, 9 (7), 1739.

IF: 4.36

5) Dal Ben, D.; Antonioli, L.; Lambertucci, C.; **Spinaci, A.**; Fornai, M.; D'antongiiovanni, V.; Pellegrini, C.; Blandizzi, C.; Volpini, R., "Approaches For Designing And Discovering Purinergic Drugs For Gastrointestinal Diseases." *Expert Opinion On Drug Discovery* **2020**, 15 (6), 687-703.

IF: 4.88

6) Dal Ben, D.; Lambertucci, C.; Buccioni, M.; Marti Navia, A.; Marucci, G.; **Spinaci, A.**; Volpini, R., "Non-Nucleoside Agonists of the Adenosine Receptors: An Overview." *Pharmaceuticals* **2019**, 12 (4).

IF: 4.28

7) Marucci, G.; Dal Ben, D.; Buccioni, M.; Marti Navia, A.; **Spinaci, A.**; Volpini, R.; Lambertucci, C., "Update on novel purinergic P2X3 and P2X2/3 receptor antagonists and their potential therapeutic applications." *Expert opinion on therapeutic patents* **2019**, 29 (12), 943-963.

IF: 5.61

8) Lambertucci, C.; **Spinaci, A.**; Buccioni, M.; Dal Ben, D.; Ngnintedem, M. A. N.; Kachler, S.; Marucci, G.; Klotz, K.-N.; Volpini, R., New A_{2A} adenosine receptor antagonists: A structure-based upside-down interaction in the receptor cavity. *Bioorganic Chemistry* **2019**, 92, art. no. 103183.

I.F. 3.926

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- 9) 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. Modifications on the amino-3,5-dicyanopyridine core to obtain multifaceted adenosine receptor ligands with antineuropathic activity. *Journal of Medicinal Chemistry* **2019**, 62 (15), 6894-6912.

I.F. 6.054

- 10) Buccioni, M.; Dal Ben, D.; Lambertucci, C.; Navia, A. M.; Ricciutelli, M.; **Spinaci, A.**; Volpini, R.; Marucci, G. New sensible method to quantize the intestinal absorption of receptor ligands. *Bioorganic & Medicinal Chemistry* **2019**, 27 (15), 3328–3333.

I.F. 2.802

- 11) Marucci, G.; Dal Ben, D.; Lambertucci, C.; Martí Navia, A.; **Spinaci, A.**; Volpini, R.; Buccioni, M. GPR17 receptor modulators and their therapeutic implications: review of recent patents. *Expert Opinion on Therapeutic Patents* **2019**, 29 (2), 85-95.

I.F. 3.699

- 12) Dal Ben, D.; Buccioni M.; Lambertucci, C.; Marucci, G.; **Spinaci, A.**; Marchenkova, A.; Abdelrahman, A.; Nistri, A.; Müller, C. E.; Volpini, R. Investigation on 2',3'- O-Substituted ATP Derivatives and Analogs as Novel P2X3 Receptor Antagonists. *ACS Medicinal Chemistry Letters* **2019**, 10 (4), 493-498.

I.F. 3.737

- 13) Amenta, F.; Buccioni, M.; Dal Ben, D.; Lambertucci, C.; Martin Navia, A.; Ngouadjeu Ngnintedem, M. A.; Ricciutelli, M.; **Spinaci, A.**; Volpini, R.; Marucci, G. Ex-vivo absorption study of lysine R-lipoate salt, a new pharmaceutical form of R-ALA. *European Journal of Pharmaceutical Sciences* **2018**, 118, 200-207.

I.F. 3.532

- 14) Lambertucci, C.; Marucci, G.; Dal Ben, D.; Buccioni, M.; **Spinaci, A.**; Kachler, S.; Klotz, K.-N.; Volpini, R. New potent and selective A₁ adenosine receptor antagonists as potential tools for the treatment of gastrointestinal diseases. *European Journal of Medicinal Chemistry* **2018**, 151, 199-213.

I.F. 4.833

- 15) Zanato, C.; Pelagalli, A.; Marwick, K. F. M.; Piras, M.; Dall'Angelo, S.; **Spinaci, A.**; Pertwee, R. G.; Wyllie, D. J. A.; Hardingham, G. E.; Zanda, M. Synthesis, radio-synthesis and in vitro evaluation of terminally fluorinated derivatives of HU-210 and HU-211 as novel candidate PET tracers. *Organic and Biomolecular Chemistry* **2017**, 15 (9), 2086-2096.

I.F. 3.490

- 16) Dal Ben, D.; Marchenkova, A.; Thomas, A.; Lambertucci, C.; **Spinaci, A.**; Marucci, G.; Nistri, A.; Volpini, R. 2',3'-O-Substituted ATP derivatives as potent antagonists of purinergic
-

P2X3 receptors and potential analgesic agents. *Purinergic Signalling* **2017**, 13 (1), 61-74.

I.F. 3.038

17) Dal Ben, D.; Buccioni M.; Lambertucci, C.; Marucci, G.; Santinelli, C.; **Spinaci, A.**; Thomas, A.; Volpini, R. Simulation and Comparative Analysis of Different Binding Modes of Non-nucleoside Agonists at the A_{2A} Adenosine Receptor. *Molecular Informatics* **2016**, 35, 403-413.

I.F. 2.375

18) Marucci, G.; Dal Ben, D.; Lambertucci, C.; Santinelli, C.; **Spinaci, A.**; Thomas, A.; Volpini, R.; Buccioni, M. The G Protein-Coupled Receptor GPR17: Overview and Update. *ChemMedChem* **2016**, 11(23), 2567-2574.

I.F. 3.016

19) Thomas, A.; Buccioni M.; Dal Ben, D.; Lambertucci, C.; Marucci, G.; Santinelli, C.; **Spinaci, A.**; Kachler, S.; Klotz, K.-N.; Volpini, R. The Length and Flexibility of the 2-Substituent of 9-Ethyladenine Derivatives Modulate Affinity and Selectivity for the Human A_{2A} Adenosine Receptor. *ChemMedChem* **2016**, 11, 1829-1839.

I.F. 3.016

20) Lambertucci, C.; Buccioni M.; Dal Ben D.; Kachler, S.; Marucci, G.; **Spinaci, A.**; Thomas, A.; Klotz, K.-N.; Volpini, R. New substituted 9-propyladenine derivatives as A_{2A} adenosine receptor antagonists. *MedChemComm* **2015**, 6, 963-970.

I.F. 2.394

h-INDEX: 5

**CONFERENCE
PRESENTATIONS**

Spinaci A., Buccioni M., Dal Ben D., Lambertucci C., Marucci G., Santoni G., Volpini R. “*Anti-cancer activity of new a3 adenosine receptors ligands*”

Riunione Annuale del Purine Club Italiano, Virtual Conference, 4/02/2021.
(PERSONAL ORAL PRESENTATION)

Antonioli, L., Lucarini, E., Lambertucci, C., Fornai, M., Pellegrini, C., Benvenuti, L., Di Cesare Mannelli, L., **Spinaci, A.**, Marucci, G., Blandizzi, C., Ghelardini, C., Volpini, R. & Dal Ben, D.

“*ARI70, An A3 Adenosine Receptor Agonist, As Potential Tool for the Treatment of Inflammation in Colitis and Visceral Pain.*”

Autumn Meeting for Young Chemists in Biomedical Sciences, Università di Napoli – Virtual Conference 13/10/2020

(POSTER)

Spinaci A., Lambertucci C., Dal Ben D., Buccioni M., Ngoudijeu M. A., Marti Navia A., Marucci G., Volpini R. “*Synthesis of new selective a3*”

adenosine receptor ligands” Riunione Annuale del Purine Club Italiano
Università di Ferrara – Ferrara, 27/01/2020
(PERSONAL ORAL PRESENTATION)

Spinaci A., Lambertucci C., Dal Ben D., Buccioni M., Ngouadjeu M. A., Marti Navia A., Marucci G., Volpini R. “*New 4'-tetrazolyl adenosine derivatives as potential agents for wound healing*”.
1st European Purine Meeting, Universidad Santiago de Compostela -Spain
04-07/09/2019.
(POSTER)

Martí Navia A, Buccioni M, Dal Ben D, Lambertucci C, Marucci G, Ngouadjeu AM, Spinaci A, Volpini R. “*Neuroinflammation modulation through A_{2A} adenosine receptor antagonists*”.
15th International Conference and Exhibition on Euro Dementia Congress
2019 April 22-23 Rome, Italy 2019

Spinaci A., Buccioni M., Dal Ben D., Lambertucci C., Marucci G, Marti Navia A., Ngouadjeu M. A, Volpini R. “*New A_{2A} adenosine receptor agonists as potential agents for wound-healing*”.
Annual Reunion Purine Club – Firenze- 18/01/2019.
(PERSONAL ORAL PRESENTATION)

Martí Navia A, Buccioni M, Dal Ben D, Lambertucci C, Marucci G, Ngouadjeu AM, **Spinaci A**, Volpini R. “*Effects of A_{2A} Adenosine Receptor antagonists in neuroinflammation and Alzheimer’s Disease*”. BSRT PhD Symposium 2018, Berlin – 28th to 30th November 2018

Spinaci A., Lambertucci C., Graiff C., Buccioni M., Dal Ben D., Marucci G., Volpini R. “*Synthesis and characterization of new triazolotriazinic derivatives as antagonists of A_{2A} adenosine receptor*”. XXXVI CONVEGNO INTERREGIONALE TUMA 2018 – 5 October 2018
Centro Congressi “Le Benedettine”, Pisa
(PERSONAL ORAL PRESENTATION)

Ngouadjeu Ngnintedem M. A., **Spinaci A.**, Lambertucci C., Buccioni M., Dal Ben D., Marucci G., Volpini R. “*Synthesis of new A₃ adenosine receptor antagonists*”. XXXVI CONVEGNO INTERREGIONALE TUMA 2018– 5 October 2018 Centro Congressi “Le Benedettine”, Pisa

Marti Navia, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, **A. Spinaci**, R. Volpini. “*Biological activity of 2,N⁶-disubstituted adenosine analogues at adenosine receptors.*” EuroPPS-2017-International Conference on Progressive PharmSciences: Technology, Research and Development, Valencia-Spain, June 19-21, 2017.

M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, **A. Spinaci**, R. Volpini. “*Pharmacological characterization of the dual GPR17 receptor.*” EuroPPS-2017-International Conference on Progressive PharmSciences: Technology, Research and Development, Valencia-Spain, June 19-21, 2017.

G. Marucci, M. Buccioni, D. Dal Ben, C. Lambertucci, **A. Spinaci**, M.P. Abbracchio, R. Volpini. "Pharmacological characterization of the GPR17 receptor dual profile." 7th Joint Italian-German Purine Club Meeting—Advances in basic and translational purinergic research, Rome-Italy, July 20-22, 2017.

D. Dal Ben, A. Marchenkova, M. Buccioni, C. Lambertucci, **A. Spinaci**, G. Marucci, A. Nistri, R. Volpini. "2',3'-o-substituted ATP derivatives as potent antagonists of purinergic P2X3 receptors and potential analgesic agents." 7th Joint Italian-German Purine Club Meeting – Advances in basic and translational purinergic research, Rome-Italy, 20-22 July 2017.

Spinaci, A., Lambertucci, C., Buccioni, M., Dal Ben, D., Kachler, S., Marucci, G., Thomas, A., Klotz, K.-N., Volpini, R.
"Nucleotide derivatives as new ligands of the purinergic P2 Receptors"
38° Congresso nazionale Società Italiana Farmacologia, Palacongressi di Rimini, Rimini (Italy) October 28, 2017
(PERSONAL ORAL PRESENTATION)

C. Lambertucci, D. Dal Ben, M. Buccioni, G. Marucci, **A. Spinaci**, K.-N. Klotz, R. Volpini "A_{2A}R agonists/A₃R antagonists: design, synthesis, and biological evaluation of new ligands with dual activity" 7th Joint Italian-German Purine Club Meeting – Advances in basic and translational purinergic research", Rome. July 20-22, 2017

G. Marucci, M. Buccioni, D. Dal Ben, C. Lambertucci, **A. Spinaci**, M. P. Abbracchio, R. Volpini "Pharmacological characterization of the GPR17 receptor dual profile" XXIV National Meeting in Medicinal Chemistry -10th Young Medicinal Chemists' Symposium, Perugia. September 11-14, 2016

A. Thomas, D. Dal Ben, C. Lambertucci, A. Marchenkova, **A. Spinaci**, G. Marucci, A. Nistri, R. Volpini "2',3'-Substituted ATP derivatives as nanomolar antagonists of the purinergic P2X3 receptors and potential analgesic agents" XXIV National Meeting in Medicinal Chemistry -10th Young Medicinal Chemists' Symposium, Perugia. September 11-14, 2016

M. A. Ngouadjeu, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas, R. Volpini "Versatile synthesis of 2,5-disubstituted triazolotriazine derivatives as A_{2A} adenosine receptor antagonists" 33rd Camerino-Cyprus Symposium - Receptor Chemistry: Reality and Vision, Camerino. May 15-19, 2016

A. Thomas, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, M. A. Ngouadjeu, A. Nistri, C. Santinelli, **A. Spinaci**, R. Volpini
"Constrained ribose ATP derivatives as new potent antagonists for the purinergic P2X3 receptors" 33rd Camerino-Cyprus Symposium - Receptor Chemistry: Reality and Vision, Camerino. May 15-19, 2016

A. Thomas, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, M. A. Ngouadjeu, C. Santinelli, **A. Spinaci**, S. Kachler, K.-N. Klotz, Rosaria Volpini "Probing the 2-position of 9-ethyladenine for potent and selective A_{2A} adenosine receptor antagonists" 33rd Camerino-Cyprus

Spinaci, A., Lambertucci, C., Buccioni, M., Dal Ben, D., Kachler, S., Marucci, G., Thomas, A., Klotz, K.-N., & Volpini, R. *New Adenine Nucleoside as ligands with dual activity at the adenosine receptors.* Italian Purine Club 2015, Istituto Superiore della Sanità, Roma (Italy) January 16, 2016

(PERSONAL ORAL PRESENTATION)

A. Spinaci, M. Buccioni, D. Dal Ben, C. Lambertucci, C. Santinelli, A. Thomas, G. Marucci, R. Volpini “*Design, synthesis, and pharmacological characterization of 2,N⁶-disubstituted adenosine analogues of adenosine receptor ligands*” Purinergic Signaling, Vancouver (Canada). January 24–28, 2016

A. Thomas, M. P. Abbracchio, M. Buccioni, D. Dal Ben, C. Lambertucci, C. Martini, G. Marucci, C. Santinelli, **A. Spinaci**, R. Volpini “*Design, synthesis, and biological evaluation of new GPR17 ligands*” SAYCS 2015, Rimini. October 27-29, 2015

Spinaci, A., Lambertucci, C., Buccioni, M., Dal Ben, D., Kachler, S., Marucci, G., Thomas, A., Klotz, K.-N., & Volpini, R. *New substituted 9-propyladenine derivatives as A2A adenosine receptor antagonists.* XXXIV Convegno delle Sezioni Toscana, Umbria, Marche e Abruzzo 2015 SCI - Società Chimica Italiana, Perugia (Italy) September 24, 2015
(PERSONAL ORAL PRESENTATION)

Spinaci, A., Thomas, A., Buccioni, M., Dal Ben, D., Lambertucci, C., Marucci, G., Santinelli, C., Klotz, K.-N. & Volpini, R. “*New N⁶-substituted adenosine derivatives as ligands with dual activity at adenosine receptors.*” Sigma-Aldrich Young Chemists Symposium (SAYCS 2015) SCI - Società Chimica Italiana, Rimini (Italy) October 28, 2015

M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas, K.-N. Klotz, R. Volpini “*New N⁶- substituted adenosine derivatives as ligands with dual activity at adenosine receptors*” XXIII Congresso National Meeting in Medicinal Chemistry (NMMC), Salerno. September 6-9, 2015

M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas, M. P. Abbracchio, R. Volpini “*Characterization of the GPR17 receptor dual pharmacological profile*” XXIII Congresso National Meeting in Medicinal Chemistry (NMMC), Salerno. September 6 - 9 2015

D. Dal Ben, M. Buccioni, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas, S. Kachler, R. Volpini “*9-Propyladenine derivatives as A2A adenosine receptor antagonists*” XXIII Congresso National Meeting in Medicinal Chemistry (NMMC), Salerno. September 6 - 9 2015

A. Thomas, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, M. P. Abbracchio, R. Volpini “*Stable nucleotide analogues as potent ligands for the purinergic P2Y and P2Y-like receptors*” XXIII Congresso National Meeting in Medicinal Chemistry (NMMC), Salerno. *September 6 - 9 2015*

A. Thomas, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, K.-N. Klotz, R. Volpini. “*Upside-down adenine scaffold for the design of A_{2A} adenosine receptors ligands*” XXIII Congresso National Meeting in Medicinal Chemistry (NMMC), Salerno. *September 6 - 9 2015*

G. Marucci, M. Buccioni, D. Dal Ben, C. Lambertucci, C. Santinelli, **A. Spinaci**, A. Thomas, K.-N. Klotz, R. Volpini “*Synthesis and biological characterization of 9-propyladenine derivatives as ligands for adenosine receptors*” 6th Joint Italian-German Purine Club Meeting, Hamburg (Germany). *July 23-25, 2015*

C. Lambertucci, M. Buccioni, G. Marucci, D. Dal Ben, **A. Spinaci**, A. Thomas, K.-N. Klotz, R. Volpini “*New ligands for adenosine receptors*” 6th Joint Italian-German Purine Club Meeting, Hamburg (Germany). *July 23-25, 2015*

C. Lambertucci, M. Buccioni, G. Marucci, D. Dal Ben, **A. Spinaci**, A. Thomas, A. Nistri, R. Volpini “*New purine derivatives as antagonists of P2X₃ receptors*” 6th Joint Italian-German Purine Club Meeting, Hamburg (Germany). *July 23-25, 2015*

R. Volpini, M. Buccioni, D. Dal Ben, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas “*New ligands for the dual receptor GPR17*” XXV National Congress of the Italian Chemical Society SCI 2014, Arcavacata di Rende. *September 7-12, 2014*

D. Dal Ben, M. Buccioni, C. Lambertucci, G. Marucci, C. Santinelli, **A. Spinaci**, A. Thomas, R. Volpini “*Molecular modeling studies on A_{2B} adenosine receptor and its ligands*” XXV National Congress of the Italian Chemical Society SCI 2014, Arcavacata di Rende. *September 7-12, 2014*

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