Curriculum Vitae

Tiziano Tuccinardi



PERSONAL DETAILS

Birth date and place: November 04, 1977; Pisa (PI), Italy

Nationality: Italian

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EDUCATION

Jun 2006	Ph.D. in *Computational Chemistry* (PhD Program: "Medicinal Chemistry and Bioactive Molecules") with the thesis "Computational tools for the study of the structure-property relationship and design of new biologically active compounds", Department of Pharmaceutical Sciences, University of Pisa (Italy). Supervisor: Prof. Adriano Martinelli
Nov 2002	State Examination for Professional Qualification
July 2002	MD in Medicinal Chemistry (Marks: 110/110 cum laude) Thesis title: "Computational methods for the study of the docking of Adenosine receptors agonists and antagonists" Supervisor: Professor Adriano Martinelli, Department of Pharmaceutical Sciences, University of Pisa (Italy).

WORK EXPERIENCE

May 2022–present	Full Professor at the Department of Pharmacy, University of Pisa.
Jul 2016–present	Adjunct Associate Professor at the Department of Biology, College of Science and Technology, Temple University. Philadelphia, PA, USA.
Apr 2015–April 2022	Associate Professor at the Department of Pharmacy, University of Pisa.
Nov 2009–Jul 2014	Adjunct Assistant Professor at the Sbarro Institute for Cancer Research and Molecular Medicine, Center for Biotechnology, Temple University. Philadelphia, PA, USA.
Aug 2009–Dec 2009	Visiting Researcher (with Prof. Anne Baranger), Department of Chemistry, University of Illinois at Urbana-Champaign. Urbana, IL, USA.
Dec 2007–Mar 2015	Assistant Professor at the Department of Pharmacy, University of Pisa.
Jun 2006–Dec 2007	Post-doctorate in the Molecular Modeling & Virtual Screening Laboratory at the University of Pisa with Professor Adriano Martinelli.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

AWARDS

October 2026	Member of the 1% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 414 out of 120621 scientists); as reported by: Ioannidis, John P.A. "August 2026 data-update for "Updated science-wide author databases of standardized citation indicators"" 2026, Elsevier Data Repository, V9, doi: 10.17632/btchxktzyw.9
September 2025	Member of the 1% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 505 out of 112089 scientists); as reported by: Ioannidis, John P.A. "August 2025 data-update for "Updated science-wide author databases of standardized citation indicators"" 2025, Elsevier Data Repository, V8, doi: 10.17632/btchxktzyw.8
October 2024	Second ranked at the Tuscany Start Cup for the MolBook Pro software. The Start Cup initiative aims to stimulate the growth of new start-up businesses by offering them concrete support.
October 2024	Member of the 1% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 584 out of 105998 scientists); as reported by: Ioannidis, John P.A. "August 2024 data-update for "Updated science-wide author databases of standardized citation indicators"" 2024, Mendeley Data, V5, doi: 10.17632/btchxktzyw.7
October 2023	Member of the 1% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 740 out of 99369 scientists); as reported by: Ioannidis, John P.A. "October 2023 data-update for "Updated science-wide author databases of standardized citation indicators."" 2023, Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6
October 2022	Member of the 1% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 889 out of 94672 scientists); as reported by: Ioannidis, John P.A. "September 2022 data-update for "Updated science-wide author databases of standardized citation indicators."" 2022, Mendeley Data, V5, doi: 10.17632/btchxktzyw.5
June 2021	ESMEC Alumni Award (First edition). European award given to an outstanding European researcher in the field of Medicinal Chemistry who has participated in one of the forty editions of the European School of Medicinal Chemistry (ESMEC) either as an oral or poster presenter.
December 2020	Member of the 2% top scientists for the Medicinal & Biomolecular Chemistry field (ranked 1295 out of 80622 scientists); as reported by: Ioannidis JPA, Boyack KW, Baas J. "Updated science-wide author databases of standardized citation indicators." PLoS Biol. 2020 18(10):e3000918. doi: 10.1371/journal.pbio.3000918.
September 2019	Global Peer Review Awards, for placing in the top 1% of reviewers in Cross-Field and in Chemistry on Publons global reviewer database (from Publons, Clarivate Analytics).
June 2019	Artificial Intelligence Molecular Screen (AIMS) Award 2019 for the Project ID: A19-181, "Identification of new reversible MAGL inhibitors" (from Atomwise Inc., San Francisco, CA 94103.
December 2017	Individual annual funding for academic research activities, top 25% in the associate professor national ranking (from Italian Government).
April 2013	Young Scientist Award for the high publication rating in the 2008-2012 period (from University of Pisa).
November 2011	Young Scientist Award for the high publication rating in the 2006-2010 period (from University of Pisa).
July 2010	Farmindustria 2010 Award for the best young Italian medicinal chemist (from Farmindustria and Pharmaceutical Chemistry Division of the Italian Chemical society).

RECOGNITIONS

2024-2026	President of University Scientific Committee (chemistry sector), University of Pisa.
2023-2026	Coordinator of the PhD program "Science of Drug and Bioactive Substances", Department of Pharmacy, University of Pisa.
2023-present	Member of the PhD program "Genomic and experimental medicine (GEM)", Scuola Superiore Meridionale (SSM).
2023-2024	Member of University Scientific Committee (chemistry sector), University of Pisa.
2018-present	Member of the Marine pharmacology center of the University of Pisa.
2016-present	Scientific Advisory Board Member of the Bio Future Medicine (BFM) startup.
2016-present	Director of the "Computer-Aided Drug Design" International Summer School (I-IX CADDISS edition), Pisa, Italy.
2014-present	Member of the NutraFood research center of the University of Pisa
2013-present	Member of the Health Technology Assessment center of the University of Pisa
2009-present	Member of the PhD program "Science of Drug and Bioactive Substances", Department of Pharmacy, University of Pisa.
2018-2024	Director of the "Pharmaceutical Chemistry and Technology" MD (long cycle) programme, University of Pisa.
2013-2019	Scientific Advisory Board Member of the EWDD European workshop in Drug Design (IX-XII edition) Siena, Italy.
2019	Opinion leader guest at the international master "Design a Contamination Control Strategy for Aseptic/Sterile Products and Processes" November 26-28, 2019, Rome (Italy).
2019	Chairman of the 4th Satellite Meeting on Carbonic Anhydrases (Parma, Italy, November, 14-17 2019).
2019	Chairman of the XII EWDD European workshop in Drug Design (Siena, May, 19-24 2019).
2015	Co-chairman of the "Molecular modelling studies" session of the 3nd International Bau Drug Design Congress (Istanbul, Turkey, October 1-3 2015).
2014-2016	Member of University Scientific Committee (chemistry sector), University of Pisa.

MAIN EDITORIAL DUTIES

2023-present	Editorial Board Member of Plos One published by PLOS.
2019-present	Editorial Board Member of Bioorganic Chemistry published by Elsevier.
2023-2025	Editor in Chief of Mini-Reviews in Medicinal Chemistry published by Bentham.
2018-present	Editorial Board Member of Molecules (Medicinal Chemistry section) published by MDPI.
2015-present	Editorial Board Member of the Journal of Enzyme Inhibition & Medicinal Chemistry published by Taylor & Francis.

BIBLIOMETRIC PARAMETERS

Total IF = 1389.42; Average IF = 5.6; Scopus H-Index = 51; Scopus Total Citations = 9726; Scopus Average citation per item = 39.2; First, Last or Corr Author: 89.

PUBLICATIONS

2026

248 Piazza L, Sortino L, Costa A, Poles C, Fornaseri F, Sainas S, Giorgis M, Poli G, Macchia M, Lolli ML, Tuccinardi T, Di Stefano M. LogPpred: An AI-Based Predictive Model for Accurate Estimation of Molecular LogP. Molecules. 2026 31(15):2566.

247 Pippione AC, Villella N, Fornaseri F, Giorgis M, Sharma M, Rolando B, Sainas S, Salamanca E, Gimenez A, Cojean S, Vyas VK, Buccinnà B, Ramondetti C, Piccinini M, Poli G, Tuccinardi T, Alberti M, Miggiano R, Lolli ML, Boschi D. Structure-based design of new pyrazole inhibitors targeting Plasmodium falciparum dihydroorotate dehydrogenase (PfDHODH). Eur J Med Chem. 2026 309:118753.

246 Bononi G, Bertini F, Masoni S, Stefano MD, Mosca R, Felice F, Signore G, Minutolo F, Granchi C, Tuccinardi T, Di Bussolo V. Development of Glycoconjugated MAGL Inhibitors with Glucose-Dependent Antiproliferative Activity. Int J Mol Sci. 2026 27(6):2666.

245 Arrighi F, Berrino E, Guglielmi P, Carradori S, Marconi GD, Pizzicannella J, Guarnieri S, Tuccinardi T, Poli G, Pepi F, Troiani A, Salvitti C, Di Noi A, Coluccia M, Buttitta G, Pontecorvi V, Granese A, Chimenti P, Secci D, Petzer A, Petzer JP, Diomede F. Novel Insights on Benzo[b]thiophene Analogues for MAO-B Inhibition and Neuroprotection: Design, Synthesis, Molecular Modelling Studies and Biological Activity. Antioxidants 2026 15(3):346.

244 Melfi F, Mencarelli N, Carradori S, Gallorini M, Angeli A, Poli G, Cataldi A, D'Agostino I, Di Credico A, Di Baldassarre A, Tuccinardi T, Supuran CT. Hybridization Approach Applied to Umbelliferon and Vanilloids toward New Inhibitors of Carbonic Anhydrases IX and XII with In Vitro Antiproliferative and Anti-inflammatory Activities. J Med Chem. 2026 69(2):1454-1472.

243 Saorin G, Mauceri M, Caligiuri I, Kamensek U, Kranjc Brezar S, Corona G, Repetto O, Perin T, Grassi G, Granchi C, Tuccinardi T, Cemazar M, Canzonieri V, Adeel M, Rizzolio F. Nanoformulation of a Pin1 inhibitor potentiates the efficacy of liposomal doxorubicin in second-line therapy for ovarian cancer. Cancer Lett. 2026 637:218128.

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242 Poles C, Di Stefano M, Piazza L, Bononi G, Poli G, Macchia M, Tuccinardi T, Giordano A. ProSECFPs: A Novel Fingerprint-Based Protein Representation Method for Missense Mutation Pathogenicity Prediction. J Chem Inf Model. 2025 65(24):13478-13492.

241 Piazza L, Poles C, Bononi G, Granchi C, Di Stefano M, Poli G, Giordano A, Medugno A, Napolitano GM, Tuccinardi T, Alfano L. Machine Learning-Based Virtual Screening for the Identification of Novel CDK-9 Inhibitors. Biomolecules. 2025 16(1):12.

240 Piazza L, Poles C, Bononi G, Granchi C, Di Stefano M, Poli G, Macchia M, Tuccinardi T. ADvisor: An Open-Source Tool for Applicability Domain Definition and Optimization in Molecular Predictive Modeling. J Chem Inf Model. 2025 65(21):11583-11600.

239 Poli G, Galati S, Macchia M, Tuccinardi T. ConPath 2.0: an optimized consensus strategy for assessing the potential pathogenicity of hRPE65 missense variants. J Mol Model. 2025 31(9):251.

238 Bononi G, Gado F, Masoni S, Scalabrini D, Vedova LD, Di Stefano M, Piazza L, Poles C, Lonzi C, Landucci E, Vagaggini C, Poggialini F, Brai A, Caligiuri I, Rizzolio F, Mohamed KA, Bertini S, De Lorenzi E, Dreassi E, Macchia M, Minutolo F, Laprairie RB, Granchi C, Tuccinardi T. Discovery of reversible monoacylglycerol lipase (MAGL) inhibitors based on ortho-hydroxyanilide scaffold. Bioorg Chem. 2025 163:108698.

237 Piazza L, Di Stefano M, Poles C, Bononi G, Poli G, Renzi G, Galati S, Giordano A, Macchia M, Carta F, Supuran CT, Tuccinardi T. A Machine Learning Platform for Isoform-Specific Identification and Profiling of Human Carbonic Anhydrase Inhibitors. Pharmaceuticals. 2025 18(7):1007.

236 Di Stefano M, Ghilardi M, Poles C, Piazza L, Demontis GC, Poli G, Tuccinardi T, Macchia M. Identification of a Non-Retinoid Opsin Ligand Through Pharmacophore-Guided Virtual Screening-A Novel Potential Rhodopsin-Stabilizing Compound. Molecules. 2025 30(11):2328.

235 Copelotti E, Fratini F, Sforza G, Tuccinardi T, Demontis GC, Mancini S. Are Insect-Based Foods Healthy? An Evaluation of the Products Sold in European E-Commerce. Foods. 2025 14(9):1450.

234 Piazza L, Srinivasan S, Tuccinardi T, Bajorath J. Transforming molecular cores, substituents, and combinations into structurally diverse compounds using chemical language models. Eur J Med Chem. 2025 291:117615.

233 Bononi G, Granchi C, Tuccinardi T, Minutolo F. Identification of a Possible Endocannabinoid-Mediated Mechanism of Action of Cetylated Fatty Acids. Biomolecules. 2025 15(3):363.

232 Di Stefano M, Piazza L, Poles C, Galati S, Granchi C, Giordano A, Campisi L, Macchia M, Poli G, Tuccinardi T. KinasePred: A Computational Tool for Small-Molecule Kinase Target Prediction. Int J Mol Sci. 2025 26(5):2157.

231 Cazzaniga G, Mori M, Griego A, Scarpa E, Moschetti G, Muzzioli S, Stelitano G, Chiarelli LR, Cocorullo M, Casali E, Porta A, Zanoni G, Tresoldi A, Pini E, Batalha ÍL, Battaglia G, Tuccinardi T, Rizzello L, Villa S, Meneghetti F. Nanoenabling MbtI Inhibitors for Next-Generation Tuberculosis Therapy. J Med Chem. 2025 68(5):5312-5332.

230 Nencetti S, Cuffaro D, Ciccone L, Nocentini A, Di Stefano M, Poli G, Macchia M, Tuccinardi T, Nuti E, Supuran CT, Rossello A, Orlandini E. A series of benzensulfonamide derivatives as new potent carbonic anhydrase IX and XII inhibitors. Future Med Chem. 2025 17(3):271-285.

229 Poli G, Macchia M, Tuccinardi T. Structure-based analysis of missense mutations impacting the catalytic and substrate binding sites of hRPE65. J Mol Grap Mod. 2025 136:108963.

2024

228 Bononi G, Di Bussolo V, Tuccinardi T, Minutolo F, Granchi C. A patent review of lactate dehydrogenase inhibitors (2014-present). Expert Opin Ther Pat. 2024 34(11):1121-1135.

227 Di Stefano M, Galati S, Lonzi C, Granchi C, Poli G, Tuccinardi T, Macchia M. WaSPred: A reliable AI-based water solubility predictor for small molecules. Int J Pharm. 2024, 666:124817.

226 Palazzolo S, Saorin G, Corona G, Granchi C, Tuccinardi T, Kamensek U, Brezar SK, Cemazar M, Canzonieri V, Rizzolio F. A carrier free delivery system of a MAGL inhibitor is effective on ovarian cancer. Eur J Pharm Biopharm. 2024, 203:114397.

225 Cuffaro D, Burkhard T, Bernardoni BL, Di Leo R, Zhang X, Galati S, Tuccinardi T, Macchia M, Rossello A, Santamaria S, de Groot R, Nuti E. Design, synthesis and biological evaluation of arylsulfonamides as ADAMTS7 inhibitors. RSC Med Chem. 2024, 15(8):2806-2825.

224 de Freitas Silva M, Juliet Cristancho Ortiz C, Ferreira Coelho L, Pruccoli L, Pagliarani B, Pisani L, Catto M, Poli G, Tuccinardi T, Cardoso Vilela F, Giusti-Paiva A, Amaral Alves M, Ribeiro de Souza HM, Tarozzi A, Silva Gontijo V, Viegas C Jr. Synthesis and pharmacological evaluation of novel N-aryl-cinnamoyl-hydrazone hybrids designed as neuroprotective agents for the treatment of Parkinson's disease. Bioorg Chem. 2024, 150:107587.

223 Alberti M, Poli G, Broggini L, Sainas S, Rizzi M, Boschi D, Ferraris DM, Martino E, Ricagno S, Tuccinardi T, Lolli ML, Miggiano R. An alternative conformation of the N-terminal loop of human dihydroorotate dehydrogenase drives binding to a potent antiproliferative agent. Acta Crystallogr D Struct Biol. 2024, 80(Pt 6):386-396.

222 Di Stefano M, Galati S, Piazza L, Gado F, Granchi C, Macchia M, Giordano A, Tuccinardi T, Poli G. Watermelon: setup and validation of an in silico fragment-based approach. J Enzyme Inhib Med Chem. 2024, 39(1):2356179.

221 Bononi G, Lonzi C, Tuccinardi T, Minutolo F, Granchi C. The Benzoylpiperidine Fragment as a Privileged Structure in Medicinal Chemistry: A Comprehensive Review. Molecules. 2024, 29(9):1930.

220 Åbacka H, Masoni S, Poli G, Huang P, Gusso F, Granchi C, Minutolo F, Tuccinardi T, Hagström-Andersson AK, Lindkvist-Petersson K. SMS121, a new inhibitor of CD36, impairs fatty acid uptake and viability of acute myeloid leukemia. Sci Rep. 2024, 14(1):9104.

219 Di Stefano M, Galati S, Piazza L, Granchi C, Mancini S, Fratini F, Macchia M, Poli G, Tuccinardi T. VenomPred 2.0: A Novel In Silico Platform for an Extended and Human Interpretable Toxicological Profiling of Small Molecules. J Chem Inf Model. 2024, 64(7):2275-2289.

218 Sharma M, Pandey V, Poli G, Tuccinardi T, Lolli ML, Vyas VK. A comprehensive review of synthetic strategies and SAR studies for the discovery of PfDHODH inhibitors as antimalarial agents. Part 1: triazolopyrimidine, isoxazolopyrimidine and pyrrole-based (DSM) compounds. Bioorg Chem. 2024, 146:107249.

217 Di Stefano M, Masoni S, Bononi G, Poli G, Galati S, Gado F, Manzi S, Vagaggini C, Brai A, Caligiuri I, Asif K, Rizzolio F, Macchia M, Chicca A, Sodi A, Di Bussolo V, Minutolo F, Meier P, Gertsch J, Granchi C, Dreassi E, Tuccinardi T. Design, synthesis, ADME and biological evaluation of benzylpiperidine and benzylpiperazine derivatives as novel reversible monoacylglycerol lipase (MAGL) inhibitors. Eur J Med Chem. 2024, 263:115916.

216 Mattioli S, Fratini F, Cacchiarelli C, Martinis V, Tuccinardi T, Paci G, Dal Bosco A, Mancini S. Chemical composition, fatty acid profile, antioxidant content, and microbiological loads of lesser mealworm, mealworm, and superworm larvae. Ital J An Sc. 2024, 23(1):125-137.

2023

215 Bononi G, Citi V, Martelli A, Poli G, Tuccinardi T, Granchi C, Testai L, Calderone V, Minutolo F. Sirtuin 1-activating derivatives belonging to the anilinopyridine class displaying in vivo cardioprotective activities. RSC Medicinal Chemistry 2023, 15(1):267-282.

214 Galati S, Di Stefano M, Bertini S, Granchi C, Giordano A, Gado F, Macchia M, Tuccinardi T, Poli G. Identification of New GSK3β Inhibitors through a Consensus Machine Learning-Based Virtual Screening. Int J Mol Sci. 2023, 24(24):17233.

213 Berrino E, Carradori S, Carta F, Melfi F, Gallorini M, Poli G, Tuccinardi T, Fernández-Bolaños JG, López Ó, Petzer JP, Petzer A, Guglielmi P, Secci D, Supuran CT. A Multitarget Approach against Neuroinflammation: Alkyl Substituted Coumarins as Inhibitors of Enzymes Involved in Neurodegeneration. Antioxidants (Basel). 2023, 12(12):2044.

212 Saorin G, Mauceri M, Cavarzerani E, Caligiuri I, Bononi G, Granchi C, Bartoletti M, Perin T, Tuccinardi T, Canzonieri V, Adeel M, Rizzolio F. Enhanced Activity of a Pluronic F127 Formulated Pin1 Inhibitor for Ovarian Cancer Therapy. J. Drug Deliv. Sci. Technol. 2023, 87, 104718.

211 Galati S, Di Stefano M, Macchia M, Poli G, Tuccinardi T. MolBook UNIPI - create, manage, analyze and share your chemical data for free. J Chem Inf. 2023, 63(13):3977-3982.

210 Poli G, Demontis GC, Sodi A, Saba A, Rizzo S, Macchia M, Tuccinardi T. An in silico toolbox for the prediction of the potential pathogenic effects of missense mutations in the dimeric region of hRPE65. J Enzyme Inhib Med Chem. 2023, 38(1):2162047.

209 De Logu F, Maglie R, Titiz M, Poli G, Landini L, Marini M, Souza Monteiro de Araujo D, De Siena G, Montini M, Cabrini DA, Otuki MF, Pawloski PL, Antiga E, Tuccinardi T, Calixto JB, Geppetti P, Nassini R, André E. miRNA-203b-3p Induces Acute and Chronic Pruritus through 5-HTR2B and TRPV4. J Invest Dermatol. 2023, 143(1):142-153.e10.

2022

208 Carradori S, Fantacuzzi M, Ammazzalorso A, Angeli A, De Filippis B, Galati S, Petzer A, Petzer JP, Poli G, Tuccinardi T, Agamennone M, Supuran CT. Resveratrol Analogues as Dual Inhibitors of Monoamine Oxidase B and Carbonic Anhydrase VII: A New Multi-Target Combination for Neurodegenerative Diseases? Molecules. 2022, 27(22):7816.

207 Bononi G, Masoni S, Di Bussolo V, Tuccinardi T, Granchi C, Minutolo F. Historical perspective of tumor glycolysis: A century with Otto Warburg. Semin Cancer Biol. 2022, 86(Pt 2):325-333.

206 Bononi G, Citi V, Lapillo M, Martelli A, Poli G, Tuccinardi T, Granchi C, Testai L, Calderone V, Minutolo F. Sirtuin 1-Activating Compounds: Discovery of a Class of Thiazole-Based Derivatives. Molecules. 2022, 27(19):6535.

205 Sainas S, Giorgis M, Circosta P, Poli G, Alberti M, Passoni A, Gaidano V, Pippione AC, Vitale N, Bonanni D, Rolando B, Cignetti A, Ramondetti C, Lanno A, Ferraris DM, Canepa B, Buccinnà B, Piccinini M, Rizzi M, Saglio G, Al-Karadaghi S, Boschi D, Miggiano R, Tuccinardi T, Lolli ML. Targeting Acute Myelogenous Leukemia Using Potent Human Dihydroorotate Dehydrogenase Inhibitors Based on the 2-Hydroxypyrazolo[1,5-a]pyridine Scaffold: SAR of the Aryloxyaryl Moiety. J Med Chem. 2022, 65(19):12701-12724.

204 Di Stefano M, Galati S, Ortore G, Caligiuri I, Rizzolio F, Ceni C, Bertini S, Bononi G, Granchi C, Macchia M, Poli G, Tuccinardi T. Machine Learning-Based Virtual Screening for the Identification of Cdk5 Inhibitors. Int J Mol Sci. 2022, 23(18):10653.

203 Balestri F, Poli G, Piazza L, Cappiello M, Moschini R, Signore G, Tuccinardi T, Mura U, Del Corso A. Dissecting the Activity of Catechins as Incomplete Aldose Reductase Differential Inhibitors through Kinetic and Computational Approaches. Biology. 2022, 11(9):1324.

202 Ceni C, Benko MJ, Mohamed KA, Poli G, Di Stefano M, Tuccinardi T, Digiacomo M, Valoti M, Laprairie RB, Macchia M, Bertini S. Novel Potent and Selective Agonists of the GPR55 Receptor Based on the 3-Benzylquinolin-2(1H)-One Scaffold. Pharmaceuticals. 2022, 15(7):768.

201 Mancini S, Fratini F, Provera I, Dovicchi J, Tuccinardi T, Minieri S, Papini RA, Forzan M, Paci G. Growth performances, chemical composition, and microbiological loads of mealworm reared with brewery spent grains and bread leftovers. Ital J An Sc. 2022, 21(1):1419-1429.

200 Galati S, Sainas S, Giorgis M, Boschi D, Lolli ML, Ortore G, Poli G, Tuccinardi T. Identification of Human Dihydroorotate Dehydrogenase Inhibitor by a Pharmacophore-Based Virtual Screening Study. Molecules. 2022, 27(12):3660.

199 Poli G, Barravecchia I, Demontis GC, Sodi A, Saba A, Rizzo S, Macchia M, Tuccinardi T. Predicting potentially pathogenic effects of hRPE65 missense mutations: a computational strategy based on molecular dynamics simulations. J Enzyme Inhib Med Chem. 2022, 37(1):1765-1772.

198 Bononi G, Di Stefano M, Poli G, Ortore G, Meier P, Masetto F, Caligiuri I, Rizzolio F, Macchia M, Chicca A, Avan A, Giovannetti E, Vagaggini C, Brai A, Dreassi E, Valoti M, Minutolo F, Granchi C, Gertsch J, Tuccinardi T. Reversible Monoacylglycerol Lipase Inhibitors: Discovery of a New Class of Benzylpiperidine Derivatives. J Med Chem. 2022, 65(10):7118-7140.

197 Bononi G, Flori L, Citi V, Acciai C, Nocilla V, Martelli A, Poli G, Tuccinardi T, Granchi C, Testai L, Calderone V, Minutolo F. New Synthetic Analogues of Natural Polyphenols as Sirtuin 1-Activating Compounds. Pharmaceuticals (Basel). 2022, 15(3):339.

196 Cazzaniga G, Mori M, Meneghetti F, Chiarelli LR, Stelitano G, Caligiuri I, Rizzolio F, Ciceri S, Poli G, Staver D, Ortore G, Tuccinardi T, Villa S. Virtual screening and crystallographic studies reveal an unexpected γ-lactone derivative active against MptpB as a potential antitubercular agent. Eur J Med Chem. 2022, 234:114235.

195 Galati S, Di Stefano M, Martinelli E, Macchia M, Martinelli A, Poli G, Tuccinardi T. VenomPred: A Machine Learning Based Platform for Molecular Toxicity Predictions. Int J Mol Sci. 2022, 23(4):2105.

194 Ibrahim AIM, Batlle E, Sneha S, Jiménez R, Pequerul R, Parés X, Rüngeler T, Jha V, Tuccinardi T, Sadiq M, Frame F, Maitland NJ, Farrés J, Pors K. Expansion of the 4-(Diethylamino)benzaldehyde Scaffold to Explore the Impact on Aldehyde Dehydrogenase Activity and Antiproliferative Activity in Prostate Cancer. J Med Chem. 2022, 65(5):3833-3848.

193 Ortore G, Poli G, Martinelli A, Tuccinardi T, Rizzolio F, Caligiuri I. From Anti-infective Agents to Cancer Therapy: A Drug Repositioning Study Revealed a New Use for Nitrofuran Derivatives. Med Chem. 2022, 18(2):249-259.

192 Abdalla AN, Di Stefano M, Poli G, Tuccinardi T, Bader A, Vassallo A, Abdallah ME, El-Readi MZ, Refaat B, Algarni AS, Ahmad R, Alkahtani HM, Abdel-Aziz AA-, El-Azab AS, Alqathama A. Co-inhibition of p-gp and hsp90 by an isatin-derived compound contributes to the increase of the chemosensitivity of mcf7/adr-resistant cells to doxorubicin. Molecules 2022, 27(1):90.

191 Adeel M, Saorin G, Boccalon G, Sfriso AA, Parisi S, Moro I, Palazzolo S, Caligiuri I, Granchi C, Corona G, Cemazar M, Canzonieri V, Tuccinardi T, Rizzolio F. A Carrier Free Delivery System of a Monoacylglycerol Lipase Hydrophobic Inhibitor. Int J Pharm. 2022, 613:121374.

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189 Cuffaro D, Camodeca C, Tuccinardi T, Ciccone L, Bartsch JW, Kellermann T, Cook L, Nuti E, Rossello A. Discovery of Dimeric Arylsulfonamides as Potent ADAM8 Inhibitors. ACS Med Chem Lett. 2021, 12(11):1787-1793.

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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

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BOOK CHAPTERS

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3 Rossello A, Nuti E, Orlandini E, Tuccinardi T. “Arylsulfonamide derivatives, especially dimeric hydroxamic acid-containing amino acids, metalloproteases inhibitors and their preparation, pharmaceutical compositions and use in the treatment of degenerative disorders.” PCT Int. Appl. WO2010010080 (2010). Assignee: Bracco Imaging S.p.A, Italy.

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ORAL COMMUNICATIONS

1 T. Tuccinardi. From molecular structures to sustainable technological trajectories (Invited Speaker) “SUSTECH ERC project kick-off workshop”, October 14, 2026, Pisa (Italy)

2 T. Tuccinardi. Artificial Intelligence in Drug Discovery: Reading the Small Print. (Invited Keynote Speaker) “XXX National Meeting on Medicinal Chemistry” September 14, 2026, Messina (Italy).

3 T. Tuccinardi. Presenza degli inquinanti farmaceutici in ambiente e negli scarichi urbani (Invited Seminar) Biennale del Mare e dell'Acqua (I Edizione), May 16, 2025, Livorno (Italy).

T. Tuccinardi. Nuove metodologie al fine di sostenere la classificazione delle sostanze: significato e scopo di NAMs e NGRAs. (Invited Seminar) XIV Safety Day Symposium - Le sfide poste dall'aggiornamento del CLP, November 12, 2024 – Milano (Italy).

T. Tuccinardi. Artificial intelligence in drug discovery. (Invited Seminar) BIO & Pharmaceutical Materials Science - european master, September 11, 2024, Pisa (Italy).

4 T. Tuccinardi. In silico pathogenicity prediction of missense mutations. (Invited Seminar) Tigem (Telethon Institute of Genetics and Medicine), June 11, 2024, Pozzuoli (Naples, Italy).

5 T. Tuccinardi. I*n silico studies for evaluating the potential pathogenic impact of hRPE65 missense mutations.* (Invited Keynote Speaker) "SGOF 2023 meeting (Société de la Génétique Ophtalmologique Francophone)" October 13-14, 2023, Venice (Italy).

6 T. Tuccinardi. *Artificial Intelligence: A Modern Approach.* (Invited Speaker) "NEXT ONCOLOGY - Supporting oncology through innovation" October 09-10, 2023, Milan (Italy).

7 T. Tuccinardi. *Compose, manage and analyze chemical-based databases.* (Invited Speaker) "12th International conference on Carbonic Anhydrases" July 05-07, 2023, Naples (Italy).

8 T. Tuccinardi. *From ESMEC 23rd to ESMEC 40th: Diary of a Medicinal Chemist.* (Invited Speaker) "European School of Medicinal Chemistry ESMEC" June 28-July 1, 2021, Urbino (Italy).

9 T. Tuccinardi. *The University - Industry network: Present and future of a successful partnership*. Invited opening lecture at the international master "Design a Contamination Control Strategy for Aseptic/Sterile Products and Processes" November 26-28, 2019, Rome (Italy).

10 T. Tuccinardi. *Development of a chemoinformatic platform for selectivity analyses of carbonic anhydrase inhibitors.* "4th Satellite Meeting on Carbonic Anhydrases" November 14-17, 2019, Parma (Italy).

11 T. Tuccinardi. *New trends in Computer-aided Drug Design.* (Invited Seminar) University of Genoa, October 7, 2019 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

12 T. Tuccinardi. *Identification and optimization of new reversible MAGL inhibitors: a computer-aided drug design history.* "VI National Meeting on Computational and Theoretical Chemistry" September 19-20, 2019, Arcavacata (CS, Italy).

13 T. Tuccinardi. *Principles of Computer-aided Drug Design.* (Invited Seminar) University of Genoa, October 22 2018 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

14 T. Tuccinardi. *Development of a fingerprint scoring function for the prediction of the binding mode of Carbonic Anhydrase inhibitors.* "The 11th International Conference on Carbonic Anhydrases" June 27-30, 2018, Bucharest (Romania).

15 T. Tuccinardi. *Recent advances in Computer-aided Drug Design.* (Invited Seminar) University of Genoa, October 16 2017 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

16 T. Tuccinardi. *New trends in Computer-aided Drug Design.* (Invited Seminar) University of Genoa, October 17 2016 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

17 T. Tuccinardi. *Structure-based computational studies for the identification and optimization of reversible MAGL inhibitors*. "IV National Meeting on Computational and Theoretical Chemistry" October 3-5, 2016, Pisa (Italy)

18 T. Tuccinardi. *Principles of Computer-aided Drug Design.* (Invited Seminar) University of Genoa, October 26 2015 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

19 T. Tuccinardi. *Consensus Docking as a Tool for the Identification and Optimization of New Lead Compounds.* (Invited Speaker) "3nd International Bau Drug Design Congress" October 1-3, 2015 Istanbul (Turkey).

20 T. Tuccinardi. *New trends in Computer-aided Drug Design.* (Invited Seminar) University of Genoa, December 9 2014 Genova (Italy), PhD School "Scienze e Tecnologie della Chimica e dei Materiali".

21 T. Tuccinardi. *Computational Methods in Drug Discovery.* (Invited Seminar) Centro Ricerche Oncologiche Mercogliano (CROM), July 24 2012 Mercogliano (AV, Italy).

22 T. Tuccinardi. *Computational Studies of the Molecular Modeling and Virtual Screening Laboratory*. "Computationally Driven Drug Discovery" November 21-23, 2011 L'Aquila (Italy).

23 T. Tuccinardi. *Small modifications for improving the ligand activity.* (Invited Speaker) "XX National Meeting on Medicinal Chemistry" September 12-16, 2010 Abano Terme (Italy).

24 T. Tuccinardi, A. Martinelli. *Protein kinases: docking and homology modeling reliability.* "28th Camerino-Cyprus-Noordwijkerhout Symposium, Trekking through Receptor Chemistry" May 16-20, 2010, Camerino (Italy).

25 T. Tuccinardi, S. Taliani, M. Bellandi, E. Da Pozzo, G. Greco, E. Novellino, A. Martinelli, F. Da Settimo, C. Martini. *3D-QSAR and virtual screening studies for the translocator protein(TSPO).* "XIX National Meeting on Medicinal Chemistry" September 14-18, 2008 Verona (Italy).

26 T. Tuccinardi. *GPCR modeling: methods and validation.* (Invited Seminar) University of Florence, February 15 2007 Firenze (Italy).

27 S.L. Baroncini, T. Tuccinardi, A. Martinelli. *MMPs: "Receptor Based" 3D QSAR, "*Riunione Scientifica della Società Chimica Italiana, Sezione Toscana", December 18 2006 Firenze (Italy).

28 A. Martinelli, S. Lazzarotti, T. Tuccinardi. *La selettività CB2/CB1 dei recettori dei cannabinoidi. Uno studio di docking automatico, "*XXIV Convegno Interregionale – Toscana Umbria Marche Abruzzo", September 30 – October 1 2005 Firenze (Italy).

ONGOING RESEARCH SUPPORT

1 Italian Ministry of Health, Ricerca Finalizzata 2024 – "Precision Oncology for Ovarian Cancer: AI-Enhanced Analysis of Immunocompetent Organoids in Microfluidic Systems" RF-2024-12377253.

2 National Recovery and Resilience Plan (PNRR), Mission 4 Component 2 Investment 1.4 "National Centre for HPC, Big Data and Quantum Computing" - Spoke 7 "Materials & Molecular Sciences" (European Union – NextGenerationEU).

3 Industria Farmaceutica Galenica Senese Srl (2023-2025) – "Delivery-optimized therapeutic nanomaterials for human health".

COMPLETED RESEARCH SUPPORT

1 Synendos Therapeutics AG (2022-2024) – "Development of modulators of the endocannabinoid system".

2 Associazione Italiana per la Ricerca sul Cancro (AIRC 2015) – "Inhibition of Pin1 to improve carboplatin and taxol cytotoxicity in high-grade serous ovariancancer" (AIRC MFAG 15639).

3 Novartis Farma S.p.A. (2023) – "Development of an extended in silico toolbox for the prediction of the potential pathogenic effects of hRPE65 missense mutations".

4 University of Pisa (2023) – "TOTEM – Therapeutic protac targeting MAGL".

5 Italian Ministry of Health, Ricerca Finalizzata 2016 – "Development of medical innovative treatments for retinitis pigmentosa" NET-2016-02363765.

6 Novartis Farma S.p.A. (2021) – "Development of an innovative in silico and in vitro protocol for evaluation of pathogenicity of RPE65 VUS to assess eligibility to gene therapy".

7 Multiple Sclerosis Italian Foundation (FISM 2020) – "Targeting the endocannabinoid system to fight MS: monoacylglycerol lipase degradation by PROTACs" 2020/PR-Single/005.

8 University Research Projects PRA 2018-2019 "Modulators of the endocannabinoid system in the treatment of glaucoma and related ocular pathologies" PRA_2018_18.

9 Multiple Sclerosis Italian Foundation (FISM 2017) – "Multi-target modulation of the endocannabinoid system as an innovative therapeutic approach for multiple sclerosis" 2017/R/16.

10 University Research Projects PRA 2016-2017 – "Sviluppo di derivati eterociclici azotati quali modulatori dei processi vita/morte della cellula" PRA_2016_59.

11 US National Institutes Of Health (NIH 2012) – "Design, synthesis, and evaluation of lactate dehydrogenase inhibitors" NIH 1R01GM098453-01A1.

12 Italian Ministry of Public Education, PRIN 2011 – "Design and optimization of new anticancer compounds" 20105YY2HL_008.

13 IRCCS European Oncology Institute (2013) – "Application and Optimization of Virtual Screening Techniques".

14 Amyotrophic Lateral Sclerosis Research Agency (ARISLA 2011) – "Positron Emission Tomography and Amyotrophic Lateral Sclerosis: Study of Cannabinoid subtype 2 receptor expression in ALS experimental model" PETALS II.

15 IRCCS European Oncology Institute (2012) – "Evaluation of new LDH inhibitors".

16 IRCCS European Oncology Institute (2011) – "Identification of new kinase inhibitors".

17 Multiple Sclerosis Italian Foundation (FISM 2009) – "Design, synthesis and study of the therapeutic efficacy of novel modulators of the endocannabinoid system in multiple sclerosis" 2009/R/3/C1.

18 Italian Ministry of Public Education, PRIN 2008 – "Design and synthesis of endocannabinoid modulators" 20088SPEFN_004.

19 Monte dei Paschi di Siena Foundation (2007) – "Modulation of MMPs involved in brain pathologies".