



**Prof. Daniele Passarella**

### **Curriculum vitae**

- 1986 Laurea in Chimica - Università degli Studi di Milano
- 1988-1991 PhD - Università degli Studi di Milano
- 1992 Post-doc - Universitat de Barcelona
- 1993 Ricercatore presso il "Dipartimento di Chimica Organica e Industriale" (Università degli Studi di Milano)
- 2006 Prof. Ass Chimica Organica - Università degli Studi di Milano – Fac. Sc. Mat Fis. Nat.
- 2006 Collaborating Prof. Univ. Barcelona
- 2007-2011 Chair – COST Action CM 0602 Inhibitors of Angiogenesis: Design, Synthesis and Biological Exploitation
- 2012 - 2016 Chair – Cost Action CM 1106 Chemical Approaches to Targeting Drug Resistance in cancer Stem cells
- 2020 Prof. Ordinario Chimica Organica – Dipartimento di Chimica – Univ. Milano

**Attività didattica** nel campo della Chimica Organica, e della Chimica dei Prodotti Naturali

**Interessi di Ricerca:** nel campo della chimica Organica e Bioorganica e della Chimica Farmaceutica

- Preparazione di librerie di composti con potenziale attività biologica di interesse in campo farmaceutico con particolare interesse verso i composti ad attività antitumorale ed antineurodegenerativa.

### **Comunicazioni scientifiche**

- 137 papers on peer-review international journals
- 6 papers on books
- 1 patent
- 41 communications to national and international meetings
- 25 seminars at Universities, research centers and private companies

**Collaborazioni** (sintesi, valutazione dell'attività farmacologica, isolamento di sostanze naturali, chimica computazionale)

- o Istituti di Ricerca Nazionali ed Internazionali
- o Aziende Farmaceutiche

### **Pubblicazioni 2020-2010**

1. Z. Boiarska, D. Passarella  
**Microtubule-Targeting Agents and Neurodegeneration**  
Drug Discovery Today (2020)  
doi.org/10.1016/j.drudis.2020.11.0
2. P. Marzullo, F. Foschi, D.A. Coppini, F. Fanchini, L. Magnani, S. Rusconi, M. Luzzani, D. Passarella  
**Cannabidiol as the Substrate in Acid-Catalysed Intramolecular Cyclization**  
Journal of Natural Products (2020), 83, 2894-2901  
DOI: 10.1021/acs.jnatprod.0c00436
3. E. Bonandi, D. Perdicchia, F. Foschi, P. Marzullo, E. Colombo, D. Passarella  
**Catalytic C3 aza-alkylation of Indoles**  
Organic & Biomolecular Chemistry (2020), 18, 6211–6235  
DOI: 10.1039/D0OB01094D

4. M. Bellini, B. Riva, V. Tinelli, M.A. Rizzuto, L. Salvioni, M. Colombo, F. Mingozzi, A. Visioli, L. Marongiu, G. Frascotti, M.S. Christodoulou, D. Passarella, D. Prosperi, L. Fiandra  
**Engineered ferritin nanoparticles for the bioluminescence tracking of nanodrug delivery in cancer**  
*Small* (2020), 16, 2001450  
DOI: 10.1002/smll.202001450
5. C. Visentin, L. Musso, L. Broggin, F. Bonato, R. Russo, C. Mariconi, M. Bolognesi, E. Miranda, S. Dallavalle, D. Passarella, S. Ricagno  
**Embelin as lead compound for new neuroserpin polymerisation inhibitors**  
*Life* (2020), 10, 111;  
DOI: 10.3390/life10070111
6. I. D. Sahin, M. S. Christodoulou, E. A. Guzelcan, A. Koyas, C. Karaca, D. Passarella, R. Cetin-Atalay  
**A small library of chalcones induce liver cancer cell death through Akt phosphorylation inhibition**  
*Scientific Reports* (2020) 10:11814  
DOI: 10.1038/s41598-020-68775-9
7. E. Bonandi, F. Foschi, C. Marucci, G. Paladino, M. Luzzani, D. Passarella  
**Vincamine by synthesis and semi-synthesis**  
*Phytochemistry Reviews* (2020)  
DOI :10.1007/s11101-020-09702-8
8. E. Colombo, L. Polito, M. Biocotino, P. Marzullo, M. Hyeraci, L. Dalla Via, D. Passarella  
**New class of betulinic acid-based nanoassemblies of cabazitaxel, podophyllotoxin and thiocolchicine**  
*ACS Med. Chem.Lett* (2020), 11, 895-898  
DOI: doi.org/10.1021/acsmchemlett.9b00668
9. E. Bonandi, G. Tedesco, D. Perdicchia, D. Passarella  
**Total Synthesis of (-)-Anaferine: a further ramification in a diversity-oriented approach**  
*Molecules* (2020), 25, 1057  
DOI: doi.org/10.3390/molecules25051057
10. M.L. Di Paolo, M.S. Christodoulou, A. M. Calogero, L. Pinzi, G. Rastelli, D. Passarella, G. Cappelletti, L. Dalla Via  
**2-Phenyloxazole-4-carboxamide as a Scaffold for Selective Inhibition of Human Monoamine Oxidase B**  
*ChemMedChem* (2019), 14, 1641-1652  
DOI: 10.1002/cmdc.201900261
11. E. Colombo, M. Biocotino, G. Frapporti, P. Randazzo, M. S. Christodoulou, G. Piccoli, L. Polito, P. Seneci, D. Passarella  
**Nanolipid-Trehalose Conjugates and Nano-Assemblies as Putative Autophagy Inducers**  
*Pharmaceutics* (2019), 11, 422  
doi:10.3390/pharmaceutics11080422
12. E. Bonandi, P. Marzullo, F. Foschi, D. Perdicchia, L. Lo Presti, M. Sironi, S. Pieraccini, G. Gambacorta, J. Saupe, L. Dalla Via, D. Passarella  
**Stereodivergent Diversity-Oriented Synthesis: Exploiting the Versatility of 2-Piperidine Ethanol**  
*European Journal of Organic Chemistry* (2019), 2019, 4013-4019  
DOI: 10.1002/ejoc.201900461  
[Front Cover https://onlinelibrary-wiley-com.pros.lib.unimi.it:2050/doi/full/10.1002/ejoc.201900906](https://onlinelibrary-wiley-com.pros.lib.unimi.it:2050/doi/full/10.1002/ejoc.201900906)
13. S. Grosso, F. Radaelli, G. Fronza, D. Passarella, D. Monti, S. Riva  
**Studies on the Laccase-Catalyzed Oxidation of 4-Hydroxy-Chalcones**  
*Advanced Synthesis & Catalysis* (2019), 361, 2696–2705  
doi.org/10.1002/adsc.201900190
14. D. Quaglio, N. Zhdanovskaya, G. Tobajas, V. Cuartas, S. Balducci, M. S. Christodoulou, G. Fabrizi, M. Gargantilla, E.-M. Priego, Á. C. Pestaña, D. Passarella, I. Screpanti, B. Botta, R. Palermo, M. Mori, F. Ghirga, M.-J. Pérez-Pérez  
**Chalcones and Chalcone-mimetic Derivatives as Notch Inhibitors in a Model of T-cell Acute Lymphoblastic Leukemia**  
*ACS Med. Chem.Lett* (2019), 10 (4), 639–643  
DOI: 10.1021/acsmchemlett.8b00608
15. G. Fumagalli, L. Polito, E. Colombo, F. Foschi, M.S. Christodoulou, F. Galeotti, D. Perdicchia, I. Bassanini, S. Riva, P. Seneci, A. García-Argáez, L. Dalla Via, D. Passarella  
**Self-assembling Releasable Thiocolchicine-Diphenylbutenylaniline Conjugates**  
*ACS Med. Chem.Lett.* (2019), 10 (4), 611–614

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16. E. Bonandi, F. Foschi, C. Marucci, F. Dapiaggi, M. Sironi, S. Pieraccini, M.S. Christodoulou, F. Balaguer, J.F. Díaz, N. Zidar,, D. Passarella  
**Synthesis of Thicolchicine-Based Conjugates: Investigation towards Bivalent Tubulin/Microtubules Binders**  
ChemPlusChem (2019), 84, 98– 102  
DOI: [10.1002/cplu.201800497](https://doi.org/10.1002/cplu.201800497)
17. F. Foschi, E. Bonandi, A. Mereu, B. Pacchetti, D. Gozzini, D. Passarella  
**Selective synthesis of methyl dithienyl-glycolates**  
Arkivoc (2018), 423-430  
[doi.org/10.24820/ark.5550190.p010.717](https://doi.org/10.24820/ark.5550190.p010.717)
18. M. Vidakovic, J. Marinello, M. Lahtela-Kakkonen, D. Matulis, V. Linkuvienė, B. Y. Michel, R. Navakauskienė, M. Christodoulou, D. Passarella, S. Klimasauskas, C. Blanquart, M. Cuendet, J. Ovadi, S. Poulain, F. Fontaine-Vive, A. Burger, N. Martinet  
**New Insights into the Epigenetic Activities of Natural Compounds**  
OBM GENETICS (2018), 1-20  
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19. Carlino, L., Christodoulou, M.S.; Restelli, V.; Caporuscio, F.; Foschi, F.; Semrau, M.S.; Costanzi, E.; Tinivella, A.; Pinzi, L.; Lo Presti, L.; Battistutta, R.; Storici, P.; Broggin, M.; Passarella, D.; Rastelli, G.;  
**Structure–Activity Relationships of Hexahydrocyclopenta[c]quinoline Derivatives as Allosteric Inhibitors of CDK2 and EGFR**  
ChemMedChem (2018),  
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20. M. S. Christodoulou, F. Dapiaggi, F. Ghiringhelli, S. Pieraccini, M. Sironi, M. Lucafò, D. Curci, G. Decorti, G. Stocco, C. S. Chirumamilla, W.V. Berghe, P. Balaguer, B. Y. Michel, A. Burger, E. M. Beccalli, D. Passarella, N. Martinet  
**Imidazo[2,1-b]benzothiazol Derivatives as Potential Allosteric Inhibitors of the Glucocorticoid Receptor**  
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21. F. Ricci, L. Carrassa, M. S. Christodoulou, D. Passarella, B. Michel, R. Benhida, N. Martinet, A. Hunyadi, E. Ioannou, V. Roussis, L. Musso, S. Dallavalle, R. Silvestri, N. Westwood, M. Mori, C. Ingallina, B. Botta, E. Kavetsou, A. Detsi, Z. Majer, F.Hudecz, S. Bősze, B. Kaminska, T.V. Hansen, P. Bertrand, C. M. Athanassopoulos, G. Damia  
**A High-throughput Screening of a Chemical Compound Library in Ovarian Cancer Stem Cells**  
Combinatorial Chemistry & High Throughput Screening – CCHTS (2018), 21, 50-56  
DOI: [10.2174/1386207321666180124094055](https://doi.org/10.2174/1386207321666180124094055)
22. G. Fumagalli, B. Stella, I. Pastushenko, F. Ricci, M. S. Christodoulou, G. Damia, D. Mazza, S. Arpicco, C. Giannini, L. Morosi, F. Dosio, P. A. Sotiropoulou, D. Passarella.  
**Hetero-Nanoparticles by self-assembly of doxorubicin and cyclopamine conjugates**  
ACS Med. Chem.Lett. (2017), 8 (9), 953–957  
DOI: [10.1021/acsmmedchemlett.7b00262](https://doi.org/10.1021/acsmmedchemlett.7b00262)
23. Bogdán, D.; Haessner, R.; Vágvölgyi, M.d, Passarella, D.e, Hunyadi, A.d,f, Gáti, T.g, Tóth, G.d,h  
**Stereochemistry and complete <sup>1</sup>H and <sup>13</sup>C NMR signal assignment of C-20-oxime derivatives of posterone 2,3-acetonide in solution state**  
Magnetic Resonance in Chemistry (2018), 56, 859-866  
DOI: [10.1002/mrc.4750](https://doi.org/10.1002/mrc.4750)
24. G. Fumagalli, G. Giorgi, M. Vágvölgyi, E. Colombo, M.S. Christodoulou, V. Collico, D. Prosperi, F., Dosio, A. Hunyadi, M. Montopoli, M. Hyeraci, A. Silvani, G. Lesma, L. Dalla Via, D. Passarella.  
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ACS Med. Chem.Lett. (2018), 9, 468-471
25. E. Bonandi, M. S. Christodoulou, G. Fumagalli, D. Perdicchia, G. Rastelli, D. Passarella  
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Drug Discovery Today (2017), 22, 1572-1581  
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26. G. Fumagalli, M. S. Christodoulou, B. Riva, I. Revuelta, C. Marucci, V. Collico, D. Prosperi, S. Riva, D. Perdicchia, I. Bassanini, A. García-Argáez, L. Dalla Via, D. Passarella

- Self-assembled 4-(1,2-diphenylbut-1-en-1-yl)aniline based Nanoparticles: Podophyllotoxin and Aloin as building blocks**  
Org. Biomol. Chem., (2017), 15, 1106
27. M. S. Christodoulou, F. Caporuscio, V. Restelli, L. Carlino, G. Cannazza, E. Costanzi, C. Citti, L. Lo Presti, P. Pisani, R. Battistutta, M. Broggin, D. Passarella, G. Rastelli  
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29. A. Gabba, S. Robakiewicz, B. Taciak, K. Ulewicz, G. Broggin, G. Rastelli, M. Krol, P. V. Murphy, D. Passarella  
**Synthesis and Biological Evaluation of Migrastatin Macrotriazoles**  
Eur.J.Org.Chem. (2017), 60-69  
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30. G. Cappelletti, D. Cartelli, M. S. Christodoulou, D. Passarella  
**Microtubule-directed therapeutic strategy for neurodegenerative disorders: starting from the basis and looking on the emergences**  
Current Pharmaceutical Design 2017, 23, 784-408  
DOI: 10.2174/1381612822666161214150544
31. J. Marangon, M. S. Christodoulou, F.V.M. Casagrande, G. Tiana, L. Dalla Via, A. Aliverti, D. Passarella, G. Cappelletti, S. Ricagno  
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Biochemical and Biophysical Research Communications (2016), 479, 48-53  
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32. G. Fumagalli, C. Marucci, M. S. Christodoulou, B. Stella, F. Dosio, D. Passarella  
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Drug Discovery Today (2016), 21, 1321-1329  
DOI: 10.1016/j.drudis.2016.06.018
33. R. Navakauskienė, M. Mori, M. S. Christodoulou, A. Zentelytė, B. Botta, L. Dalla Via, F. Ricci, G. Damia, D. Passarella, C. Zilio, and N. Martinet  
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**Synthesis of pironetin-dumetorine hybrids as new tubulin binders**  
Eur.J.Org.Chem. (2016), 2029-2036.
35. M. S. Christodoulou, M. Zarate, F. Ricci, G. Damia, S. Pieraccini, F. Dapiaggi, M. Sironi, L. Lo Presti, A. N. García-Argáez, L. Dalla Via and D. Passarella  
**4-(1,2-diarylbut-1-en-1-yl)isobutyranilide derivatives as inhibitors of topoisomerase II**  
Eur.J.Med.Chem (2016), 118, 79-89
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38. C. Marucci, G. Fumagalli, F. Calogero, A. Silvani, M. Christodoulou, N. Martinet, D. Passarella  
**Natural Products and Cancer Stem Cells**

39. F. Calogero, P. Allegrini, E. Attolino, D. Passarella  
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Eur.J.Org.Chem. (2015), 27, 6011-6016  
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42. G. Fumagalli, D. Mazza, M. Christodoulou, G. Damia, F. Ricci, D. Perdicchia, B. Stella, F. Dosio, P. Sotiropoulou, D. Passarella  
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43. M. S. Christodoulou, F. Calogero, M. Baumann, A. N. García-Argáez, S. Pieraccini, M. Sironi, F. Dapiaggi, R. Bucci, G. Brogini, S. Gazzola, S. Liekens, A. Silvani, M. Lahtela-Kakkonen, N. Martinet, A. Nonell-Canals, E. Santamaría-Navarro, I. R. Baxendale, L. Dalla Via, D. Passarella  
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**Self-assembled Squalene-based Fluorescent Hetero-Nanoparticles**  
ChemPlusChem (2015), 80, 47 - 49  
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45. M. S. Christodoulou<sup>1</sup>, A. Thomas, S. Poulain, M. Vidakovic<sup>4</sup>, M. Lahtela-Kakkonen, D. Matulis, P. Bertrand, E. Bartova, C. Blanquart, E. Mikros, N. Fokialakis, D. Passarella, R. Benhida, N. Martinet  
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**Preparation of Fluorescent Tubulin Binders**  
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