

Curriculum Vitae

INFORMAZIONI PERSONALI

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PUBBLICAZIONE

Alessio Terenzi was born in Palermo (1981), Italy. He obtained his master's degree in chemistry at the University of Palermo (2007), where he also completed his Ph.D (2011), under the supervision of Prof. G. Barone. During his PhD, he worked in Prof. J. M. Quintela's group at the University of La Coruña, Spain (2009), and as a Marie Curie Early Stage Researcher in Prof. M. J. Hannon's group at the University of Birmingham, UK (2010). After completing his first postdoc at the University of Palermo (2014), he moved to the University of Vienna, Austria, with a Marie Curie Cofund Fellowship (INDICAR). In Vienna, he developed his project on the in-cell interaction of metal complexes with G-quadruplex DNA motifs, between the Institute of Inorganic Chemistry (Prof. B. Keppler) and the Research Platform of Translational Cancer Therapy Research (Prof. W. Berger). In 2018, thanks to a Marie Skłodowska-Curie Individual Postdoctoral Fellowship, he moved to San Sebastian, Spain, in the group of Prof. L. Salassa, where he worked on the development of photoactivatable anticancer prodrugs, which simultaneously incorporate nuclear imaging capability. In 2020, he obtained a position as Associate Professor of Inorganic Chemistry at the University of Palermo (Italy).

Peer Reviewed Articles

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54) F. Guarra, **A. Terenzi***, C. Pirker, R. Passannante, D. Baier, E. Zangrando, V. Gómez-Vallejo, T. Biver, C. Gabbiani, W. Berger*, J. Llop*, L. Salassa*, "124I Radiolabeling of a AuIII-NHC Complex for In Vivo Biodistribution Studies," *Angew. Chemie - Int. Ed.* 2020,. DOI: <http://dx.doi.org/10.1002/anie.202008046>.

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52) C. Hognon, T. Miclot, C. Garcia-Iriepa, A. Francés-Monerris, S. Grandemange, **A. Terenzi**, M. Marazzi, G. Barone, A. Monari, "Role of RNA Guanine Quadruplexes in Favoring the Dimerization of SARS Unique Domain in Coronaviruses," *J. Phys. Chem. Lett.* 2020, 11, 5661-5667. Featured On The Journal Cover. DOI: <http://dx.doi.org/10.1021/acs.jpcclett.0c01097>.

51) B. Bielec, H. Schueffl, **A. Terenzi**, W. Berger, P. Heffeter, B.K. Keppler, C.R. Kowol, "Development and biological investigations of hypoxia-sensitive prodrugs of the tyrosine kinase inhibitor crizotinib," *Bioorg. Chem.* 2020, 99, 103778. DOI: <http://dx.doi.org/10.1016/j.bioorg.2020.103778>.

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Metallacycle," **Angew. Chemie - Int. Ed.** 2019, 58, 8007-8012. DOI: <http://dx.doi.org/10.1002/anie.201900934>.

49) L.A. Hager, S. Mokesch, C. Kieler, S. Alonso-De Castro, D. Baier, A. Roller, W. Kandioller, B.K. Keppler, W. Berger, L. Salassa, **A. Terenzi***, "Ruthenium-arene complexes bearing naphthyl-substituted 1,3-dioxindan-2-carboxamides ligands for G-quadruplex DNA recognition," **Dalton Trans.** 2019, 48, 12040-12049. Featured On The Journal Cover. DOI: <http://dx.doi.org/10.1039/c9dt02078k>.

48) **A. Terenzi***, H. Gattuso, A. Spinello, B.K. Keppler, C. Chipot, F. Dehez, G. Barone*, A. Monari*, "Targeting G-quadruplexes with Organic Dyes: Chelerythrine-DNA Binding Elucidated by Combining Molecular Modeling and Optical Spectroscopy," **Antioxidants.** 2019, 8, 472. DOI: <http://dx.doi.org/10.3390/antiox8100472>.

47) B. Englinger, C. Pirker, P. Heffeter, **A. Terenzi**, C.R. Kowol, B.K. Keppler, W. Berger, "Metal drugs and the anticancer immune response," **Chem. Rev.** 2019, 119, 1519-1624. DOI: <http://dx.doi.org/10.1021/acs.chemrev.8b00396>.

46) C. Ducani*, G. Bernardinelli, B. Högberg, B.K. Keppler, **A. Terenzi***, "Interplay of three G quadruplex units in the KIT promoter," **J. Am. Chem. Soc.** 2019, 141, 10205-10213. DOI: <http://dx.doi.org/10.1021/jacs.8b12753>.

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43) G. Salassa*, **A. Terenzi***, "Metal Complexes of Oxadiazole Ligands: An Overview," **Int. J. Mol. Sci.** 2019, 20, 3483. DOI: <http://dx.doi.org/10.3390/ijms20143483>.

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42) W. Streciwilk, **A. Terenzi**, X. Cheng, L. Hager, Y. Dabiri, P. Prochnow, J.E. Bandow, S. Wölfl, B.K. Keppler, I. Ott, "Fluorescent organometallic rhodium(I) and ruthenium(II) metallodrugs with 4-ethylthio-1,8-naphthalimide ligands: Antiproliferative effects, cellular uptake and DNA-interaction," **Eur. J. Med. Chem.** 2018, 156, 148-161. DOI: <http://dx.doi.org/10.1016/j.ejmech.2018.06.056>.

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38) G. Turturici, V. La Fiora, **A. Terenzi**, G. Barone, V. Cavalieri, "Perturbation of

Developmental Regulatory Gene Expression by a G-Quadruplex DNA Inducer in the Sea Urchin Embryo," **Biochemistry**. 2018, 57, 4391-4394. DOI: <http://dx.doi.org/10.1021/acs.biochem.8b00551>.

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37) B. Englinger, S. Kallus, J. Senkiv, D. Heilos, L. Gabler, S. van Schoonhoven, **A. Terenzi**, P. Moser, C. Pirker, G. Timelthaler, W. Jäger, C.R. Kowol, P. Heffeter, M. Grusch, W. Berger, "Intrinsic fluorescence of the clinically approved multikinase inhibitor nintedanib reveals lysosomal sequestration as resistance mechanism in FGFR-driven lung cancer," **J. Exp. Clin. Cancer Res.** 2017, 36, 122. DOI: <http://dx.doi.org/10.1186/s13046-017-0592-3>.

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30) **A. Terenzi***, D. Lötsch, S. Van Schoonhoven, A. Roller, C.R. Kowol, W. Berger, B.K. Keppler, G. Barone*, "Another step toward DNA selective targeting: Ni^{II} and Cu^{II} complexes of a Schiff base ligand able to bind gene promoter G-quadruplexes," **Dalton Trans.** 2016, 45, 7758-7767. DOI: <http://dx.doi.org/10.1039/c6dt00648e>.

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28) H. Gattuso, A. Spinello, **A. Terenzi**, X. Assfeld, G. Barone, A. Monari, "Circular

Dichroism of DNA G-Quadruplexes: Combining Modeling and Spectroscopy to Unravel Complex Structures," *J. Phys. Chem. B*. 2016, 120, 3113–3121. DOI: <http://dx.doi.org/10.1021/acs.jpcc.6b00634>.

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20) A. Lauria, A. Alfio, R. Bonsignore, C. Gentile, A. Martorana, G. Gennaro, G. Barone, **A. Terenzi**, A.M. Almerico, "New benzothieno[3,2-d]-1,2,3-triazines with antiproliferative activity: Synthesis, spectroscopic studies, and biological activity," *Bioorganic Med. Chem. Lett.* 2014, 24, 3291–3297. DOI: <http://dx.doi.org/10.1016/j.bmcl.2014.06.007>.

19) A. Lauria, R. Bonsignore, **A. Terenzi**, A. Spinello, F. Giannici, A. Longo, A.M. Almerico, G. Barone, "Nickel(II), copper(II) and zinc(II) metallo-intercalators: Structural details of the DNA-binding by a combined experimental and computational investigation," *J. Chem. Soc. Dalton Trans.* 2014, 43, 6108–6119. DOI: <http://dx.doi.org/10.1039/c3dt53066c>.

18) A. Lauria, R. Delisi, F. Mingoia, **A. Terenzi**, A. Martorana, G. Barone, A.M. Almerico, "1,2,3-triazole in heterocyclic compounds, endowed with biological activity, through 1,3-dipolar cycloadditions," *European J. Org. Chem.* 2014, 2014, 3289–3306. DOI: <http://dx.doi.org/10.1002/ejoc.201301695>.

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Mennucci, "A theoretical and experimental investigation of the spectroscopic properties of a DNA-intercalator salphen-type Zn^{II} complex," *Chem. - A Eur. J.* 2014, 20, 7439-7447. DOI: <http://dx.doi.org/10.1002/chem.201304876>.

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Book Chapters

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