

Dr. Contel's List of Scientific Publications & Patents (Reverse Chronological Order)

ORCID ID: <https://orcid.org/0000-0002-9825-4441>

A. Publications

At Brooklyn College

85. 'Leveraging Morphological Profiling for Mechanistic Elucidation of Metal-Based Anticancer Compounds'. B.J. Park, S. Harrypersad, A. Houshmand, J.C. Setiawan, A. Darracq, G.A. MacNeil, T.E. Gbadebo, K. Cariou, A. Casini, **M. Contel**, M.D. Pozza, Y. Dou, F. Figuereido, G. Gasser, M. Guo, J.E. López-Hernández, W. Kandioller, J. Karges, C. Kowol, M.S. Malarek, S.M. Meier-Menches, S.P. Nolan, A. Notaro, J. Pankovich, K. Purkait, N. J.-M. Raynal, T. Scattolin, N.V. Tzouras, R. Vinck, J.J. Wilson, A. Zucca, B. Keppler, C.J. Walsby,* M. Bazett.* *JACS Au* **2026**, ASAP. <https://pubs.acs.org/doi/10.1021/jacsau.6c00363>
84. 'Cytotoxicity and Immunogenic Cell Death Studies of Water-soluble Tetrahedral Ga(III) or Fe(III) Coordination Cages Containing a Au(I) Anticancer Drug as Guest'. P.R. Sahoo, F. Aftab, A. Manu, A. Roy, **M. Contel**,* J. Morrow*. *Inorg. Chem. Front.* **2026**, 13(12), 5221–5232. HOT ARTICLE.
83. 'NMR spectroscopy stability studies of Ru-IM, a prodrug candidate for triple negative breast cancer'. M. Mayrata, A. Lopez-Sanchez, E.P. Urriolabeitia,* S. McCarrick, A. Manu, J.E. López-Hernández, M.C. Neary, **M. Contel**.* *J. Inorg. Biochem.* **2026**, 113254. Special Issue: Chris Orvig: Celebrating His Career and Contributions to Inorganic Biochemistry.
82. 'Exploring the Anticancer Properties and Mode of Action of Copper(II)-Furan Acylhydrazones on Human Triple Negative Breast Cancer Cells'. L. Santa Maria De la Parra, V. R. Martinez, N. Nayeem, **M. Contel**, I. E. León. *ChemMedChem*, **2026**, 21(4), e202500836.
81. 'Insights into Mechanisms and Promising Triple Negative Breast Cancer Therapeutic Potential for a Water-Soluble Ruthenium Compound'. N. Nayeem,* S. Sauma, A. Ahad, R. Rameau, S. Keadze, M. Bazett, B. Park, P. Casaccia, S. Prabha, K. Hubbard, and **M. Contel**.* *ACS Pharmacol. Trans. Sci.* **2024**, 7, 5, 1364.
80. 'Development of immunoliposomes containing cytotoxic gold payloads against HER2-positive breast cancers'. A. Ahad, F. Aftab, A. Michel, J.S. Lewis,* and **M. Contel**.* *RSC Med. Chem.* **2024**, 15, 139.
79. 'Shifting the Antibody–Drug Conjugate Paradigm: A Trastuzumab-Gold-Based Conjugate Demonstrates High Efficacy against Human Epidermal Growth Factor Receptor 2-Positive Breast Cancer Mouse Model'. A. Ahad, H.K. Saeed, V. del Solar, J.E. López-Hernández, A. Michel, J. Mathew, J.S. Lewis,* and **M. Contel**.* *ACS Pharmacol. Trans. Sci.* **2023**, 6, 12, 1972.
78. 'Platinum(IV)–Gold(I) Agents with Promising Anticancer Activity: Selected Studies in 2D and 3D Triple-Negative Breast Cancer Models'. J.E. López-Hernández, N. Nayeem, J.P. Cerón-Carrasco, A. Ahad, A. Hafeez, I.E. León, and **M. Contel**.* *Chem. A Eur. J.* **2023**, e202302045. Selected as "hot paper" and journal cover.
77. 'N-Acetylation of Biodegradable Supramolecular Peptide Nanofilaments Selectively Enhances Their Proteolytic Stability for Targeted Delivery of Gold-Based Anticancer Agents'. Y. Marciano, N. Nayeem, D. Dave, R.V. Ulijn,* **M. Contel**.* *ACS Biomater. Sci. Eng.* **2023**, 9 (6) 3379.

76. '5-Nitrofuryl-Containing Thiosemicarbazone Gold(I) Compounds: Synthesis, Stability Studies, and Anticancer Activity'. E. Rodríguez-Arce,* E. Gavrilov, X. Alvite, N. Nayeem, I.E. León, M.C. Neary, L. Otero, D. Gambino, C. Olea Azar, **M. Contel**.* *ChemPlusChem* **2023**, e202300115. Invited Article. Special Issue on Gold Chemistry. Journal Cover.
75. 'Promising Heterometallic Compounds as Anticancer Agents: Recent Studies *In Vivo*'. J.E. López-Hernandez, **M. Contel**.* *Curr. Opin. Chem. Biol.* **2023**, 72, 102250.
74. 'Encapsulation of Gold-Based Anticancer Agents in Protease-Degradable Peptide Nanofilaments Enhances Their Potency'. Y. Marciano, V. del Solar, N. Nayeem, D. Dave, J. Son, **M. Contel**,* and R.V. Ulijn.* *J. Am. Chem. Soc.* **2023**, 145, 1, 234–246.
73. 'Self-Complementary Zwitterionic Peptides Direct Nanoparticle Assembly and Enable Enzymatic Selection of Endocytic Pathways'. R.H. Huang, N. Nayeem, Y. He, J. Morales, D. Graham, R. Klajn, **M. Contel**, S. O'Brien, and R.V. Ulijn.* *Adv. Mater.* **2022**, 41, 2104962.
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70. 'Exploring the Potential of Metallodrugs as Chemotherapeutics for Triple Negative Breast Cancer'. N. Nayeem, and **M. Contel**.* *Chem. A. Eur. J.* **2021**, 27, 8891.
69. 'Auranofin-Based Analogues Are Effective Against Clear Cell Renal Carcinoma *In Vivo* and Display No Significant Systemic Toxicity'. B.T. Elie, K. Hubbard, B. Layek, W.S. Yang, S. Prabha, J.W. Ramos*, and **M. Contel**.* *ACS Pharmacol. Transl. Sci.* **2020**, 3(4) 644-654.
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67. 'Metal-Based Antibody Drug Conjugates. Potential and Challenges in Their Application as Targeted Therapies in Cancer'. V. Del Solar, and **M. Contel**.* *J. Inorg. Biochem.*, **2019**, 199, 110780.
66. 'Unconventional Anticancer Metallodrugs and Strategies to Improve the Pharmacological Profile'. **M. Contel**. Editorial. *Inorganics* **2019**, 7, 88. Editor of special issue (book).
65. 'Preclinical Evaluation of an Unconventional Ruthenium-Gold-Based Chemotherapeutic: RANCE-1, in Clear Cell Renal Cell Carcinoma'. B.T. Elie, K. Hubbard,* Y. Pechhenyy, B. Layek, S. Prabha, and **M. Contel**.* *Cancer Med*, **2019**, 4304 (open access).
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63. 'Customizing Morphology, Size, and Response Kinetics of Matrix Metalloproteinase-Responsive *Nanostructures* by Systematic Peptide Design'. J. Son, D. Kalafatovic, M. Kumar, B. Yoo, M.A. Cornejo, **M. Contel**, and R.V. Ulijn.* *ACS Nano.* **2019**, 13, 1555.

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60. 'How the Horvath Paradigm, Fluorous Biphasic Catalysis, affected Oxidation Chemistry: Successes, Challenges and a Sustainable Future'. J.-M. Vincent,* **M. Contel**,* G. Pozzi,* and R.F. Fish.* *Coord. Chem. Rev.* **2019**, 380, 584.
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52. 'Novel Enantiopure Cyclopentadienyl Ti(IV) Oximate Compounds as Potential Anticancer Agents'. I. de la Cueva-Alique, L. Muñoz-Moreno, Y. Benabdouahab, B.T. Elie, M.A. El Amrani, M. E.G. Mosquera, **M. Contel**, A.M. Bajo, T. Cuenca, E. Royo.* *J. Inorg. Biochem.* **2016**, 156, 22.
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Before Joining Brooklyn College

25. 'Fluorous Phosphine Assisted Recycling of Gold Catalysts for Hydrosilylation of Aldehydes'. D. Lantos, **M. Contel**,* A. Larrea, D. Szabó, and I.T. Horváth.* *QSAR Comb. Sci.*, **2006**, 25, 719.
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