

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

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A. Publications

At Brooklyn College

- 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 Acylhydrazone 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. Gavrillov, 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.
72. 'Intracellular Localization Studies of the Luminescent Analogue of an Anticancer Ruthenium Iminophosphorane with High Efficacy in a Triple-Negative Breast Cancer Mouse Model'. K. Miachin, V. del Solar, E. El Khoury, N. Nayeem, A. Khrystenko, P. Appelt, M.C. Neary, D. Buccella,* and **M. Contel**.* *Inorg. Chem.* **2021**, 60, 19152.
71. 'Investigation of the Effects and Mechanisms of Anticancer Action of a Ru(II)-Arene Iminophosphorane Compound in Triple Negative Breast Cancer Cells'. N. Nayeem, A. Yeasmin, S.N. Cobos, A. Younes, K. Hubbard and **M. Contel**.* *ChemMedChem.* **2021**, 21, 3280.
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.
68. 'Sec Hyphenated to a Multielement-Specific Detector Unravels the Degradation Pathway of a Bimetallic Anticancer Complex in Human Plasma'. S. Sarpong-Kumankomah, **M. Contel**, and J. Gailer.* *J. Chromatogr. B.*, **2020**. 1145, 122093.
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).
64. 'Preparation of Titanocene-Gold Compounds Based on Highly Active Gold(I)-N-Heterocyclic Carbene Anticancer Agents: Preliminary *in vitro* Studies in Renal and Prostate Cancer Cell Lines'. N. Curado, N. Gimenez, K. Miachin, M. Aliaga-Lavrijsen, M.A. Cornejo, A.A. Jarzecki, and **M. Contel**.* *ChemMedChem.* **2019**, 14, 1086.
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.
62. 'Heterometallic Complexes as Anticancer Agents'. N. Curado, and **M. Contel**.* In 'Metal-based Anticancer Agents' (Series Metallobiology) A, Casini, S. Meier-Menches, A. Vessieres Eds. *Royal Society of Chemistry.* 2019.
61. 'Trastuzumab Gold-Conjugates: Synthetic Approach and *In Vitro* Evaluation of Anticancer Activities in Breast Cancer Cell Lines'. N. Curado, G. Dewaele-Le Roi, S. Poty, J.S. Lewis,* and **M. Contel**.* *Chem. Commun.* **2019**, 55, 1394.
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.

59. 'Bimetallic Titanocene-Gold Phosphane Complexes Inhibit Invasion, Metastasis, and Angiogenesis-Associated Signaling Molecules in Renal Cancer'. B.T. Elie, J. Fernandez-Gallardo, N. Curado, M.A. Cornejo, J.W. Ramos,* and **M. Contel**.* *Eur. J. Med. Chem.* **2019**, *161*, 310.
58. 'A Heterometallic Ruthenium–Gold Complex Displays Antiproliferative, Antimigratory, and Antiangiogenic Properties and Inhibits Metastasis and Angiogenesis-Associated Proteases in Renal Cancer'. B.T. Elie, Y. Pecheny, F. Uddin, and **M. Contel**.* *J. Biol. Inorg. Chem.* **2018**, *23*, 399.
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56. 'Auranofin and N-heterocyclic carbene gold- analogs are potent inhibitors of the bacteria *Helicobacter. Pylori*'. J.P. Owings, N.N. McNair, Y.F. Mui, T.N. Gustafsson, A. Holmgren, **M. Contel**, J.B. Goldberg, and J.R. Mead.* *FEMS Microbiol. Lett.* **2016**, *363*, fnw148.
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