

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

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A. Publications

At Brooklyn College

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.
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 Metallo drugs 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 Metallo drugs 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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54. 'Synthesis and Anticancer Activity of Carbosilane Metallodendrimers Based on Arene Ruthenium (II) Complexes'. M. Maroto-Díaz, B.T. Elie, P. Gómez-Sal, J. Perez-Serrano, R. Gómez, **M. Contel**,* and F.J. de la Mata.* *Dalton Trans.* **2016**, *45*, 7049.
53. 'Versatile Synthesis of Cationic N-Heterocyclic Carbene-Gold(I) Complexes Containing a Second Ancillary Ligand. Design of Heterobimetallic Ruthenium-Gold Anticancer Agents'. J. Fernández-Gallardo, B. T. Elie, M. Sanaú, and **M. Contel**.* *Chem. Commun.* **2016**, *52*, 3155.
52. 'Novel Enantiopure Cyclopentadienyl Ti(IV) Oximate Compounds as Potential Anticancer Agents'. I. de la Cueva-Alique, L. Muñoz-Moreno, Y. Benebdelouahab, 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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48. 'Hydrogen Bonding and Anticancer Properties of Water-Soluble Chiral p-cymene Ru(II) Compounds with Amino-Oxime Ligands'. Y. Benebdelouahab, L. Muñoz-Moreno, M. Frik, I. de la Cueva-Alique, M.A. El Amrani, **M. Contel**, A.M. Bajo, T. Cuenca, E. Royo.* *Eur. J. Inorg. Chem.* **2015**, 2295.
47. '*In Vitro* and *In Vivo* Evaluation of Water-soluble Iminophosphorane Ruthenium(II) Compounds. A Potential Chemotherapeutic Agent for Triple Negative Breast Cancer'. M. Frik, A. Martinez, B.T. Elie, O. Gonzalo, D. Ramirez de Mingo, M. Sanaú, R. Sánchez-Delgado, T. Sadhukha, S. Prabha, J.W. Ramos, I. Marzo*, and **M. Contel**.* *J. Med. Chem.* **2014**, *57*, 9995.
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