

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

Publications

1. 'Mesityl Gold Complexes. Synthesis and Reactivity. X-Ray structure of $[(\text{PPh}_3\text{Au}(\mu\text{-mes})\text{Ag}(\text{tht}))_2][\text{SO}_3\text{CF}_3]_2$ (mes=mesityl, tht = tetrahydrothiophene)'. **M. Contel**, J. Jiménez, P.G. Jones, A. Laguna, and M. Laguna., *J. Chem. Soc., Dalton Trans.*, **1994**, 2515.
2. 'Triamidogerma- and -Stanna-aurates (I): First Structural Characterisation of a Ge-Au-Ge Unit'. **M. Contel**, K.W. Hellmann, L.H. Gade, I.J. Scowen, M. McPartlin, and M. Laguna, *Inorg. Chem.*, **1996**, 35, 3713.
3. Trinuclear Au_2Ag and Au_2Cu Complexes with Mesityl Bridging Ligands. X-Ray Structure of the One-dimensional Chain Polymer $[\{\text{Au}(\mu\text{-mes})(\text{AsPh}_3)_2\text{Ag}\}\text{ClO}_4]_n$. **M. Contel**, J. Garrido, M.C. Gimeno, P.G. Jones, A. Laguna, and M. Laguna, *Organometallics*, **1996**, 15, 4939.
4. 'Polynuclear Mesityl-gold and -gold-silver Derivatives. Crystal Structure of $[\text{Ag}(\mu\text{-dppm})\{\text{Au}(\text{mes})\}_2]\text{ClO}_4 \cdot 3\text{CH}_2\text{Cl}_2$ (dppm=bis(diphenylphosphino)methane, mes=mesityl)'. **M. Contel**, J. Garrido, M.C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna, and M. Laguna, *Inorg. Chim. Acta*, **1997**, 254, 157.
5. Triamidostannagold Complexes in Different Oxidation States. First Structural Characterization of a Sn-Au-Au-Sn Linear Chain'. B. Findeis, **M. Contel**, L.H. Gade, M. Laguna, M.C. Gimeno, I. Scowen, and M. McPartlin, *Inorg. Chem.*, **1997**, 36, 2386.
6. Trimethylsilylmethyl Gold (I) Complexes. X-Ray Structure of $[\text{Au}(\text{CH}_2\text{SiMe}_3)(\text{PPh}_2\text{CH}_2\text{PPh}_2\text{Me})]\text{ClO}_4 \cdot 0.25\text{CH}_2\text{Cl}_2$. **M. Contel**, J. Garrido, J. Jiménez, P.G. Jones, M. Laguna, and A. Laguna, *J. Organomet. Chem.*, **1997**, 543, 71.
7. 'Hexanuclear Mercury-Silver Complexes. Novel Coordination for Bridging Mesityl and Triflate Groups'. M. Laguna, M.D. Villacampa, **M. Contel** and J. Garrido, *Inorg. Chem.*, **1998**, 37, 133.
8. 'A silver (I) center solely bonded to four gold (I) atoms'. **M. Contel**, J. Garrido, M.C. Gimeno and M. Laguna, *J. Chem. Soc., Dalton Trans.*, **1998**, 1083.
9. 'Bis{2-diphenylphosphino}phenyl}mercury: a Novel Bidentate Ligand and Transfer Reagent for the $o\text{-C}_6\text{H}_4\text{PPh}_2$ group'. M.A. Bennett, **M. Contel**, D.C.R. Hockless, and L.L. Welling, *Chem. Commun.*, **1998**, 2401.
10. 'A New, Simple Route to Novel Gold Clusters: Structure of an Au_6Ag Wheel with a Gold Rim'. E. Cerrada, **M. Contel**, A.D. Valencia, M. Laguna, T. Gelbrich, and M.B. Hursthouse. *Angew. Chem. Int. Ed.*, **2000**, 39, 2353.
11. 'Cyclometallated Complexes of Ruthenium and Osmium Containing the $o\text{-C}_6\text{H}_4\text{PPh}_2$ ligand'. M.A. Bennett, A.M. Clark, **M. Contel**, C.E.F. Rickard, W.R. Roper, and L.J. Wright. *J. Organomet. Chem.*, **2000**, 601, 299.
12. 'Reactivity of Bis- $[\{2,6\text{-bis}(\text{dimethylaminomethyl})\text{phenyl}\}\text{gold}(\text{I})]$, an Unusual Intermolecularly Stabilized Bis(amino)-Aryl-Gold(I) Dimer, Towards Alkyl Halides. X-ray Crystal Structures of its Iodomethane and Methylene Iodide Adducts'. **M. Contel**, D. Nobel, G. van Koten, and A. L. Spek. *Organometallics*, **2000**, 19, 3288.
13. 'Mesityl Gold(III) Complexes. X-ray Structure of Mononuclear $[\text{Au}(\text{mes})_2\text{Cl}(\text{PPh}_3)]$ and the Dimer $[\text{Au}(\text{mes})_2\text{Cl}]_2$ '. **M. Contel**, A.J. Edwards, J. Garrido, M.B. Hursthouse, M. Laguna, and R. Terroba, *J. Organomet. Chem.*, **2000**, 607, 129.

14. 'Mesityl-Gold(I) Complexes'. M. Laguna, J. Garrido, and **M. Contel**, *Inorg. Synth.*, **2002**, *33*, 181.
15. 'Bis{(2-diphenylphosphino)phenyl}mercury: A P-Donor Ligand and Precursor to Mixed Metal-Mercury (d⁸-d¹⁰) Cyclometalated Complexes Containing 2-C₆H₄PPh₂'. M.A. Bennett, **M. Contel**, D.C.R. Hockless, L.L. Welling, and A.C. Willis. *Inorg. Chem.*, **2002**, *41*, 844.
16. 'A Bis(ortho-amine)aryl-Gold(I) Compound as an Efficient, Nontoxic, Arylating Reagent'. **M. Contel**, M. Stol, M.A. Casado, G.P.M. van Klink, D.D. Ellis, A.L. Spek, and G. Van Koten. *Organometallics*, **2002**, *21*, 4556.
17. 'Fluorous Biphasic Catalysis: Synthesis and Characterization of Copper (I) and Copper (II) Fluoroponytailed 1,4,7-R-TACN and 2,2'-Bipyridine Complexes, and Demonstration of their Catalytic Activity in the Oxidation of Hydrocarbons, Olefins, and Alcohols, Including Mechanistic Implications'. **M. Contel**, C. Izuel, R.H. Fish, M. Laguna, P.R. Villuendas, and P.J. Alonso. *Chem. A. Eur. J.*, **2003**, *9*, 4168.
18. 'Organometallic Gold(III) Compounds as catalysts for the Addition of Water and Methanol to Terminal Alkynes'. R. Casado, **M. Contel**, M. Laguna, P. Romero, and S. Sanz. *J. Am. Chem. Soc.* **2003**, *125*, 11925.
19. 'Synthesis of Fluorous Nitrogen Ligands and Their Metal Complex as Precatalysts for Application in Alkane, Alkene, and Alcohol Oxidation, and Atom Transfer Radical Reactions'. J.-M. Vincent, D. Lastécouères, **M. Contel**, M. Laguna, and R.H. Fish. *Handbook of Fluorous Chemistry* (Wiley-VHC). **2004**, *Chap. 10.12*. 298.
20. 'Mn²⁺/Co²⁺/Cu²⁺/Cu⁺ Complexes of Fluoroponytailed R_f-Tris-N-1,4,7-triazacyclononane and R_f-Carboxylate, C₈F₁₇(CH₂)₂COOH. Precatalysts for FBC Alkane, Alkene, and Alcohol Oxidation Chemistry'. J.-M. Vincent, **M. Contel**, M. Laguna, and R.H. Fish. *Handbook of Fluorous Chemistry* (Wiley-VHC). **2004**, *Chap. 11.15*. 394.
21. 'Organometallic Gold(III) and Gold(I) Complexes as Catalysts for the 1,3-Dipolar Cycloaddition to Nitrones: Synthesis of Novel Gold-Nitron Derivatives'. A. Adé, E. Cerrada, **M. Contel**, M. Laguna, P. Merino, and T. Tejero. *J. Organomet. Chem.*, **2004**, *689*, 1788.
22. 'Precatalyst Separation Paradigms: Alkane Functionalization in Water Utilizing in situ Formed [Fe₂O(η¹-H₂O)(η¹-Oac)(TPA)₂]³⁺, Embedded in Surface-Derivatized Silica, as an MMO Model, and Fluorous Biphasic Catalysis for Alkane, Alkene, and Alcohol Oxidation Chemistry'. R.H. Fish, A. Rabion, K. Neimann, R. Neumann, J.-M. Vincent, **M. Contel**, C. Izuel, P.R. Villuendas, and P.J. Alonso. *Topics in Catalysis*, **2005**, *32*, 185.
23. 'Synthesis of Fluorous Nitrogen Ligands and Applications, Including Atom-Transfer Radical Reactions'. J.-M., Vincent, D. Lastecoueres, M. Contel, M. Laguna, and R.H., Fish. *Multiphase Homogeneous Catalysis*, **2005**, *1*, 375.
24. 'Fluorocarbon Soluble Copper(II) Carboxylate Complexes with Non-Fluoroponytailed Ligands as Precatalysts for the Oxidation of Alkenols and Alcohols Under Fluorous Biphasic or Thermomorphic Modes: Structural and Mechanistic Aspects'. **M. Contel**, P.R. Villuendas, J. Fernández-Gallardo, P.J. Alonso, J.-M. Vincent, and R.H. Fish. *Inorg. Chem.* **2005**, *44*, 9971.
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.
26. 'Homogeneous Gold-Catalyzed Hydrosilylation of Aldehydes'. D. Lantos, **M. Contel**, S. Sanz, A. Bodor and I.T. Horváth. *J. Organomet. Chem.* **2007**, *692*, 1799.
27. 'Organogold(III) Iminophosphorane Complexes as Efficient Catalysts in the Addition of 2-methylfuran and Electron-rich Arenes to Methyl Vinyl Ketone'. D. Aguilar, **M. Contel**, R. Navarro, and E.P. Urriolabeitia. *Organometallics*, **2007**, *26*, 4604.

28. 'Regioselective Orthopalladation of Stabilized Iminophosphoranes in ExoPosition: Scope, Limitations and Mechanistic Insights'. D. Aguilar, R. Bielsa, **M. Contel**, A. Lledos, R. Navarro, T. Soler, and E.P. Urriolabeitia. *Organometallics*, **2008**, 27, 2929.
29. 'Gold(III) Iminophosphorane Complexes as Catalysts in C-C and C-O Bond Formations'. D. Aguilar, **M. Contel**, R. Navarro, T. Soler, and E. P. Urriolabeitia. *J. Organomet. Chem.* (invitation to a special issue on "Gold catalysis: new perspectives for homogeneous catalysis"). **2009**, 694, 486.
30. 'Synthesis of Apoptosis-Inducing Iminophosphorane Organogold(III) Complexes and Study of Their Interactions with Biomolecular Targets'. N. Shaik, A. Martinez, I. Augustin, H. Giovinazzo, A. Varela, R. Aguilera, M. Sanaú, and **M. Contel**. *Inorg. Chem.* **2009**, 48, 1577.
31. 'Water Soluble Phosphane-Gold(I) Complexes. Applications as Recyclable Catalysts in a Three-Component Coupling Reaction and as Anticancer and Antimicrobial Agents'. B.T. Elie, C. Levine, Iban Ubarretxena-Belandia, A. Varela, R. Aguilera, R. Ovalle, and **M. Contel**. *Eur. J. Inorg. Chem.* **2009**, 3421.
32. 'Gold Chemistry, Applications and Future Directions in the Life Sciences'. Ed. Fabian Mohr. Wiley-VCH 2009. Book Review. **M. Contel**. *Angew. Chem. Int. Ed.* **2010**, 49, 250.; *Angew. Chem.* **2010**, 122, 258.
33. 'Orthopalladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones. Structure and Functionalization'. G.-D. Roiban, E. Serrano, T. Soler, **M. Contel**, I. Grosu, C. Cativiela, and E.P. Urriolabeitia. *Organometallics*. **2010**, 29, 1428-1435.
34. 'Mechanistic Insights in the One-Pot Synthesis of Propargylamines from Terminal Alkynes and Amines in Chlorinated Solvents Catalyzed by Gold Compounds and Nanoparticles'. D. Aguilar, **M. Contel**, and E.P. Urriolabeitia. *Chem. A Eur.* **2010**, 16, 9287.
35. 'Group 11 Metal Compounds with Tripodal Bis(imidazole) Thioether Ligands. Applications as Catalysts in the Oxidation of Alkenes and as Antimicrobial Agents'. F. Liu, R. Amis, E. Hwang, A. Varela-Ramirez, R.J. Aguilera, R. Ovalle, and **M. Contel**. *Molecules* (invitation to a special issue on Pincer Complexes). **2011**, 16, 6701.
36. 'Iminophosphorane-organogold(III) Complexes Induce Cell Death Through Mitochondrial ROS Production'. L. Vela, **M. Contel**, L. Palomera, G. Azaceta, and I. Marzo. *J. Inorg. Biochem.* **2011**, 105, 1306.
37. 'Titanocene-Phosphine Derivatives as Precursors to Cytotoxic Heterometallic TiAu₂ and TiM (M = Pd, Pt) Compounds. Studies of their Interactions with DNA'. J.F. González-Pantoja, M. Stern, A.A. Jarzecki, E. Royo, E. Robles-Escajeda, A. Varela-Ramirez, R.J. Aguilera, and **M. Contel**. *Inorg. Chem.* **2011**, 50, 11099-11110.
38. 'Reactivity of Unsaturated 5(4H)-oxazolones with Hg(II) Acetate. Synthesis of Methyl N-benzoylamino-3-arylacrylates'. G.-D. Roiban, T. Soler, **M. Contel**, I. Grosu, C. Cativiela, and E.P. Urriolabeitia. *Synth. Commun.* **2012**, 42, 195. Published on line Oct 2011.
39. 'Fluorous Hydrosilylation'. M. Carreira, and **M. Contel**. *Top. Curr. Chem.* **2012**, 308, 247-274. Invited Chapter to the Special Volume on Fluorous Chemistry (Ed. I.T. Horváth).
40. 'Luminescent Di and Trinuclear Organometallic Gold(I)-M (Au₂, Au₂Ag and Au₂Cu) Compounds Containing Bidentate Phosphanes as Active Antimicrobial Agents'. M. Frik, J. Jimenez, I. Gracia, L.R. Falvello, S. Abi-Habib, K. Surliel, T.R. Muth, and **M. Contel**. *Chem. A Eur. J.* **2012**, 18, 3659-3674.
41. "Cytotoxic Hydrophilic iminophosphorane coordination compounds of d8 metals. Studies of their Interactions with DNA and HSA". M. Carreira, R. Calvo-Sanjuán, M. Sanaú, X. Zhao, R. Magliozzo, I. Marzo, and **M. Contel**. *J. Inorg. Biochem.* **2012**, 116, 204.
42. 'Organometallic Palladium Complexes with a Water-Soluble Iminophosphorane Ligand as Potential Anticancer Agents' M. Carreira, R. Calvo-Sanjuán, M. Sanaú, I. Marzo, and **M. Contel**. *Organometallics*. **2012**, 31, 5572 (Special issue on Organometallics in Medicine and Biology).

43. 'Potential Anticancer Heterometallic Fe–Au and Fe–Pd Agents: Initial Mechanistic Insights'. N. Lease, V. Vasilevski, M. Carreira, A. de Almeida, M. Sanaú, P. Hirva, A. Casini and **M. Contel**. *J. Med. Chem.* **2013**, *56*, 5806.
44. 'Luminescent Iminophosphorane Gold, Palladium and Platinum Complexes as Potential Anticancer Agents'. M. Frik, J. Jimenez, V. Vasilevski, M. Carreira, A. de Almeida, E. Gascón, F. Benoit, M. Sanaú, A. Casini, and **M. Contel**. *Inorg. Chem. Front.* **2014**, *3*, 231. Front Cover March Issue.
45. 'Auranofin and Related Heterometallic Gold(I)-Thiolates as Potent Inhibitors of Methicillin-Resistant Staphylococcus aureus Bacterial Strains'. Y. Hokai, B. Jurkowicz, J. Fernández-Gallardo, N. Zakirkhodjaev, M. Sanaú, T.R. Muth, and **M. Contel**. *J. Inorg. Biochem.* **2014**, *138*, 81.
46. 'Organometallic Titanocene-Gold Compounds as Potential Chemotherapeutics in Renal Cancer. Study of their Protein Kinase Inhibitory Properties'. J. Fernández-Gallardo, B.T. Elie, F. Sulzmaier, M. Sanaú, J.W. Ramos, and **M. Contel**. *Organometallics*. **2014**, *33*, 6669.
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.
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.
49. 'Design, Synthesis and Characterisation of Chimeric Ruthenium(II)-Gold(I) Complexes showing Enhanced Cytotoxic Properties'. L. Massai, J. Fernández-Gallardo, A. Guerri, A. Arcangelic, S. Pillozzic, **M. Contel**, and L. Messori. *Dalton Trans.* **2015**, *44*, 11067.
50. 'Heterometallic Titanium–Gold Complexes Inhibit Renal Cancer Cells *In Vitro* and *In Vivo*'. J. Fernández-Gallardo, B. T. Elie, T. Sadhukha, S. Prabha, M.Sanaú, S.A. Rotenberg, J. W. Ramos, and **M. Contel**. *Chem. Sci.* **2015**, *6*, 5269 (open access).
51. 'Cyclometalated Iminophosphorane Gold(III) and Platinum (II) Complexes. A Highly Permeable cationic Platinum (II) Compound with Promising Anticancer Properties. M. Frik, J. Fernández-Gallardo, O. Gonzalo, Victor Mangas-Sanjuan, M. González-Alvarez, A. Serrano del Valle, C. Hu, I. González-Alvarez, M. Bermejo, I. Marzo, **M. Contel**. *J. Med. Chem.* **2015**, *58*, 5825. (ACS author choice open access).
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
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.
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.
55. 'Titanocene-Gold Complexes Containing N-heterocyclic Carbene Ligands Inhibit Growth of Prostate, Renal and Colon Cancers *In Vitro*.' Y.F. Mui, J. Fernández-Gallardo, A. Gubran, B.T. Elie, I. Maluenda, M. Sanaú, O. Navarro, and **M. Contel**. *Organometallics*. **2016**, *35*, 1218. (ACS author choice open access).

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.
57. 'Water-compatible gold and silver nanoparticles as catalysts for the oxidation of alkenes'. E. Fisher, L. Kenisgberg, M. Carreira, J. Fernández-Gallardo, R. Baldwin, and **M. Contel**. *Polyhedron*. **2016**, 120, 82. Special Issue to honor Prof. Martin A. Bennett.
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.
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.
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.
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.
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.
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.
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.
65. 'Preclinical Evaluation of an Unconventional Ruthenium-Gold-Based Chemotherapeutic: RANCE-1, in Clear Cell Renal Cell Carcinoma'. B.T. Elie, K. Hubbard, Y. Pechheny, B. Layek, S. Prabha, and **M. Contel**. *Cancer Med*, **2019**, 4304 (open access).
66. 'Unconventional Anticancer Metallodrugs and Strategies to Improve the Pharmacological Profile'. **M. Contel**. Editorial. *Inorganics* **2019**, 7, 88. Editor of special issue (book).
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.
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.
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) 64.
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.

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.

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.

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**, 34, 2104962.

Patents Issued

1. 'Titanocene Gold Derivatives Comprising Thiolato Ligands'. **M. Contel**, J. Fernández-Gallardo, B.T. Elie, J.W. Ramos. US Patent 9,315,531 (04/19/2016).

2. 'Arene ruthenium (II) derivatives containing iminophosphorane ligands and their use in cancer therapy'. **M, Contel**, I. Marzo, M, Frik, B.T. Elie. US Patent 9,555,049 B2 (01/31/2017).

3. 'Antibody Drug Conjugates Based on Gold Compounds'. **M. Contel**, N. Curado, J. Lewis, S. Poty. US Patent App. US Patent 11,141,490 (10/12/2021)