

Past PhD Students

- Paul Pellegrini (2009)
- Warren Howard (2009) “Developing Effective Sequence Selective Binders”

Patent

1. Aldrich-Wright, J.R., Jaramillo, D., Brodie, C. and Howard, W. Taleb, R. Sequence Selective Compounds, International Patent, PCT/AU2004/001368, Oct. (2004)

Papers

1. Jaramillo, D, Wheate, N. J., Ralph, S. F., Howard, W. A., Tor, Y and **Aldrich-Wright, J. R.** (2006) Polyamide platinum anticancer complexes designed to target specific DNA sequences, *Inorganic Chemistry*, **45**, 6004-6013. (IF: 3.851)
 2. Howard, W.; **Aldrich-Wright, J.R.**, DNA binding studies of ruthenium(II) dipyridotetrahydrophenazine complexes, *Journal of Inorganic Biochemistry*, (2003), 152
- Dr. Marc van Holst (2008)“The Development of Dinuclear Ruthenium Complexes as Probes
 1. van Holst, M.; Jaramillo, D.; **Aldrich-Wright, J.R.** The Synthesis of 2,3-diamino-2,3-dideoxy- α -D-glucose,3,4-diamino-6-hydroxymethyl-tetrahydropyran -2,5-diol and their chiral platinum Compounds, *Journal of Inorganic Biochemistry*, (2003), 151
 2. van Holst, M, Le Pevelen, **D. Aldrich-Wright, J.R.** (2008) Terpyridineplatinum(II) Incorporation in Sequence Selective Polyamides by Solid Phase Techniques, *European Journal of Inorganic Chemistry* 29, 4608-4615. (IF: 2.514)
 3. Jones, D.; van Holst, M.; Yano, S.; Tanase, T.; **Aldrich-Wright, J. R.** (2009) N-Glycoside complexes of nickel(II); probing carbohydrate/transition metal interactions *Australian Journal of Chemistry*, 62(3), 265-268. (IF:1.895)
 4. van Holst, M.; Le Pevelen, D.; **Aldrich-Wright, J. R.** (2009) Terpyridineplatinum(II) incorporation in N-methylpyrrole-based polyamides by solid phase techniques. *European Journal of Inorganic Chemistry*, (5), 691. (IF: 2.514)
 - 5.
 - Dr. Robin Taleb (2008)

Patent

2. Aldrich-Wright, J.R., Jaramillo, D., Brodie, C. and Howard, W. Taleb, R. Sequence Selective Compounds, International Patent, PCT/AU2004/001368, Oct. (2004)

Papers

1. Taleb, R. I., Jaramillo, D., Wheate, N. J. and **Aldrich-Wright, J. R.** (2007) Synthesis of DNA-sequence-selective hairpin polyamide platinum complexes, *Chemistry - A European Journal*, **13**, 3177-3186. (IF: 4.907)

- Wheate, N. J., Taleb, R. I. Krause-Heuer, A. M., Cook, R. L., Wang, S., Higgins, V. J. and **Aldrich-Wright, J. R.** (2007) Novel platinum(II)-based anticancer complexes and molecular hosts as their drug delivery vehicles, *Journal of the Chemical Society, Dalton Transactions, Invited paper*, 5055-5064. (IF: 3.003)

- Dr. Craig Brodie (2006)

Patent

- Aldrich-Wright, J.R., Jaramillo, D., Brodie, C. and Howard, W. Taleb, R. Sequence Selective Compounds, International Patent, PCT/AU2004/001368, Oct. (2004)

Papers

- Brodie, C., Collins, J.G. and **Aldrich-Wright, J.R.**, (2004) The biological activity of some square-planar platinum(II) metallointercalators. *Dalton Transactions*, 1145 – 1152. (IF: 3.003)
- Brodie, C., Glazer, E., Luedtke, N., Tor, Y. and **Aldrich-Wright, J.R.** (2004) Nanomolar dissociation constants of the bisintercalating complexes of $\Delta\Delta$ -[(dpq)₂Ru(phen-n-SOS-n-phen)Ru(dpq)₂]⁴⁺ (where n = 3, 4 or 5 and SOS =2-mercaptoethyl ether). *Chemical Communication*, 1018-1019. (IF: 4.426)
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- Jaramillo, D., Junk, P. C., Brodie, C. R., and **Aldrich-Wright, J. R.** (2006) Chloro(dimethyl sulfoxide-kS)[(1*R*,3*S*)-1,2,2-trimethylcyclopentane-1,3-diamine-k2*N,N'*]platinum(II) trichloro(dimethyl sulfoxide-kS)platinum(II), *Acta Crystallographica Section E*, E62, m3377-m3379. (IF: 0.581)
- Yousouf, S. J., Brodie, C. R., Wheate, N. J. and **Aldrich-Wright, J. R.** (2007) Synthesis of a heteronuclear ruthenium(II)-platinum(II) complex linked by L-cysteine methyl ester, *Polyhedron*, **26**, 318-328. (IF: 1.958)
- Wheate, N.J., Brodie, C. R., Collins, J. G., Kemp, S. and **Aldrich-Wright, J. R.** (2007) DNA intercalators in cancer therapy: Organic and inorganic drugs and their spectroscopic tools of analysis, *Mini Reviews in Medicinal Chemistry*, **7**, 627-648. (IF: n/a)
- Brodie, C. R. and **Aldrich-Wright, J. R.** (2007) Synthesis of flexible bisintercalating ruthenium(II) complexes, *European Journal. Inorganic. Chemistry* 4781-4783. (IF: 2.514)
- Yousouf, S.; Brodie, C.; **Aldrich-Wright, J.R.** Synthesis of ruthenium-platinum di- and tri- nuclear complexes, *Journal of Inorganic Biochemistry*, (2003), 259. **ISSN:0162-0134**

- Dr. David Jaramillo (2006) “The Design and Synthesis of Sequence Selective Complexes”

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1. Aldrich-Wright, J.R., Jaramillo, D., Brodie, C. and Howard, W. Taleb, R. Sequence Selective Compounds, International Patent, PCT/AU2004/001368, Oct. (2004)

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1. Jaramillo, D., Liu, O., **Aldrich-Wright, J.** and Tor, Y. (2004) Synthesis of *N*-Methylpyrrole and *N*-Methylimidazole Amino Acids Suitable for Solid-Phase Synthesis, *Journal of Organic Chemistry*, **69**, 8151-8153. (IF: 3.675)
 2. Jaramillo, D., Buck, D. J., Collins, J. G., Fenton, R. R., Stootman, F. H., Wheate, N. J. and **Aldrich-Wright, J. R.** (2006) Synthesis, characterisation and biological activity of chiral platinum(II) complexes, *European Journal of Inorganic Chemistry*, 839–849. (IF: 2.514)
 3. Jaramillo, D, Wheate, N. J., Ralph, S. F., Howard, W. A., Tor, Y and **Aldrich-Wright, J. R.** (2006) Polyamide platinum anticancer complexes designed to target specific DNA sequences, *Inorganic Chemistry*, **45**, 6004-6013. (IF: 3.851)
 4. Jaramillo, D., Junk, P. C., Brodie, C. R., and **Aldrich-Wright, J. R.** (2006) Chloro(dimethyl sulfoxide-*k*S)[(*1R,3S*)-1,2,2-trimethylcyclopentane-1,3-diamine-*k*2N,N']platinum(II) trichloro(dimethyl sulfoxide-*k*S)platinum(II), *Acta Crystallographica Section E*, E62, m3377-m3379. (IF: 0.581)
 5. Taleb, R. I., Jaramillo, D., Wheate, N. J. and **Aldrich-Wright, J. R.** (2007) Synthesis of DNA-sequence-selective hairpin polyamide platinum complexes, *Chemistry - A European Journal*, **13**, 3177-3186. (IF: 4.907)
 6. Jaramillo, D.; Fenton, R. R.; Brodie, C.; Collins, J.G.; Junk, P.; **Aldrich-Wright, J.R.**, The structure-activity relationship of chiral square-planar platinum(II) metallointercalators, *Journal of Inorganic Biochemistry*, (2003), 159. **ISSN:0162-0134**
- Dr. Dianne Fisher (2005) “The Preparation of Platinum(II) Intercalators and their Interactions with DNA.”
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 3. Fisher, D. M.; Fenton, R. R.; **Aldrich-Wright, J.R.** (2008) *In vivo* studies of a platinum(II) metallointercalator. *Chemical Communications*, **43**, 5613-5615. (IF: 4.426)
 4. Krause-Heuer, A. M.; Grunert, R. S.; Buczkowska, M.; Wheate, N. J.; Le Pevelen, D.; Boag, L. R.; Fisher, D. M.; Kasparkova, J.; Malina, J.; Bednarski, P. J. Brabec, Patrick V.; **Aldrich-Wright, J. R.** (2009) Studies into the mechanism of action

of platinum(II) complexes with potent cytotoxicity in human cancer cells. *Journal of Medicinal Chemistry, Accepted.* (IF: 4.895)

- Dr. Francis Hinds (2005) "The Study of Novel Bismuth Antimicrobials and Their Mechanism of Action on *Helicobacter Pylori*"
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 2. Hinds, F.; Harris, A. G.; **Aldrich-Wright, J.**; Campbell, M.; Hazell, S. Iron transport subsystems necessary to *Helicobacter Pylori* provision protecting against Bismuth Activity, *GUT An International Journal of gastroenterology and Hepatology*,(2002), **51**, 130, (Suppl. 2).
- Dr. Ivan Greguric (1999) "Molecular Recognition of DNA by Metal Complexes"
 1. Greguric, I., **Aldrich-Wright, J. R.** and Collins, J. G. A ^1H NMR Study of the Binding of Δ - $[\text{Ru}(\text{phen})_2\text{DPQ}]^{2+}$ to the Hexanucleotide $\text{d}(\text{GTCGAC})_2$ -Evidence for Intercalation From the Minor Groove, *J. Am. Chem. Soc.*, (1997), **119**, 3621-3622.
 2. Collins, J. G., Sleeman, A. D., **Aldrich-Wright, J. R.**, Greguric, I. and Hambley, T. W. A ^1H NMR Study of the Binding of Ruthenium(II) Polypyridyl Complexes, *Inorg. Chem.* (1998), **37**, 3133-3141.
 3. **Aldrich-Wright, J. R.**, Greguric, I. D., Pellegrini, P. A., Lau, C. H. Y. and Collins, J. G. Transition metal complexes as probes for DNA, *Recent Res. Devel. Inorg. Chem.*, (1998), **1**, 13-37.
 4. Collins, J. G., **Aldrich-Wright, J. R.**, Greguric, I. D. and Pellegrini, P. A. Binding of the Δ - and Δ -enantiomers of $[\text{Ru}(\text{dmphen})_2\text{DPQ}]^{2+}$ to the hexanucleotide $\text{d}(\text{GTCGAC})_2$, *Inorg. Chem.* (1999), **38**, 5502-5509.
 5. Greguric, A., Greguric, I. D., Hambley, T. W., Aldrich-Wright, J. R. and Collins, J. G. (2002) Minor groove intercalation of Δ - $[\text{Ru}(\text{Me}_2\text{phen})_2\text{dppz}]^{2+}$ to the hexanucleotide $\text{d}(\text{GTCGAC})_2$. *Journal of the Chemical Society, Dalton Transactions*, (6), 849-855.
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Past MSc Students

- Antun Greguric (2001) "DNA Recognition of Chiral Metal Complexes"
 1. Greguric, A., Greguric, I. D., Hambley, T. W., Aldrich-Wright, J. R. and Collins, J. G. (2002) Minor groove intercalation of Δ -[Ru(Me₂phen)₂dppz]²⁺ to the hexanucleotide d(GTCGAC)₂. *Journal of the Chemical Society, Dalton Transactions*, (6), 849-855.

- Paul Pellegrini (1998) "The Binding of Optically Active Coordination Complexes to DNA"
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 3. Collins, J. G., **Aldrich-Wright, J. R.**, Greguric, I. D. and Pellegrini, P. A. Binding of the Δ - and Δ -enantiomers of [Ru(dmphen)₂DPQ]²⁺ to the hexanucleotide d(GTCGAC)₂, *Inorg. Chem.* (1999), **38**, 5502-5509.
 4. Pellegrini, P. A. and **Aldrich-Wright, J.R.** (2003) Evidence for chiral discrimination of Ruthenium(II) polypyridyl complexes by DNA. *Dalton Trans*, 176-183. (IF: 3.003)