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About

Mike Hannon holds the Chair of Chemical Biology at the University of Birmingham. He is also the Director of the EPSRC Research and Training Centre in Physical Sciences for Health.

Mike's research lies at the interface between chemistry and the life sciences and is focused on metal complexes in biology and medicine as both imaging agents and therapeutics. He has expertise in synthetic chemistry (organic, inorganic, supramolecular) and in applying biophysical methods to recognition of different DNA structures. In particular his work on the non-covalent recognition of DNA Y-shaped junctions has transformed the field of study and prompted a sudden and growing international activity in exploring the use of metallo-supramolecular structures in DNA recognition and as anti-cancer drugs.

Mike was Chairman (2006–9) of the EU-ESF COST Research Action D39 in the field of metallo-drugs and DNA interactions, and is the Chair-elect for the prestigious 2014 Gordon Research Conference in Metals in Medicine (Vice-Chair 2012).

For more details, visit the **Hannon Group's webpages (http://chemweb.bham.ac.uk/~hannonmj/Mike%20page/index.htm)** .

Qualifications

- Ph.D. Chemistry - University of Cambridge, 1994
- B.A. Natural Sciences (first class) - University of Cambridge, 1990
- M.A. (Cantab) - University of Cambridge, 1994

Biography

Mike Hannon qualified with a first class B.A. (Hons) in Natural Sciences from the University of Cambridge in 1990. He remained at Cambridge (90-93) to study for a PhD in Inorganic Chemistry with Professor Ed Constable and then was awarded a Royal Society ESEP Fellowship to work with Nobel laureate Professor Jean-Marie Lehn in Strasbourg (93-94). He returned to the UK in 1994 to take up a lectureship at the University of Warwick. He received two awards for teaching excellence, and was promoted to Professorship in 2005. He was appointed to the Chair of Chemical Biology at the University of Birmingham in Autumn 2005 and became Director of the PSIBS Biomedical Imaging Centre in 2008.

Much of Mike's research output appears in top chemistry journal **Angewandte Chemie (http://onlinelibrary.wiley.com/doi/10.1002/anie.201007951/abstract)** , and in 2011 the journal published an author profile about him, so you can learn more about his favourite football team and what he and his research team would do if he won the lottery.

The **Hannon Group's webpages (http://chemweb.bham.ac.uk/~hannonmj/Mike%20page/index.htm)** contain more information about Mike and his research team.

Teaching

Teaching Programmes

- MSci and BSc Chemistry
- **Physical Sciences for Health (Sci-Phy-4-Health) Integrated PhD (http://www.birmingham.ac.uk/research/activity/psibs/programme/SciPhy.aspx)**

Postgraduate supervision

Opportunities are available for doctoral research students in the following areas:

- Imaging Chemistry for Biology and Medicine
- Molecular Probe Design
- Bioinorganic Chemistry
- Metal-based Drugs
- DNA Recognition
- Biological Chemistry and Chemical Biology
- Supramolecular Chemistry
- Physical Sciences of Imaging in the Biomedical Sciences

The **Hannon Group's webpages (http://chemweb.bham.ac.uk/~hannonmj/Mike%20page/index.htm)** contain details of our current research students and their projects.

If you are interesting in studying any of these subject areas, please contact Professor Hannon or his PA on the contact details above.

For more information about the Sci-Phy-4-Health programme, please contact the Centre Administrator either via email: **sci-phy@contacts.bham.ac.uk (mailto:sci-phy@contacts.bham.ac.uk)** or on telephone number +44 (0) 121 414 8808.

Research

Details of our research programme can be found on the **Hannon Group's webpages (http://chemweb.bham.ac.uk/~hannonmj/Mike%20page/index.htm)** .

Adobe Flash Player or QuickTime is required for video playback. Get the latest Flash Player Get the latest version of QuickTime

Publications

A full list of publications is available on the **Hannon Group's webpages (http://chemweb.bham.ac.uk/~hannonmj/Mike%20page/index.htm)** .

100. Noncovalent DNA-Binding Metallo-Supramolecular Cylinders Prevent DNA Transactions in vitro

C. Ducani, A. Leczkowska, N.J. Hodges, M.J. Hannon, Angew. Chem. Intl. Ed., 2010, 49, 8942-8945, **DOI: 10.1002/anie.201004471 (http://onlinelibrary.wiley.com/doi/10.1002/anie.201004471/abstract;jsessionid=8F2DF568F8B188A1612DD9EAD6FAE445.d02t02)**

99. Conjugation of testosterone modifies the interaction of mono-functional cationic platinum(II) complexes with DNA, causing significant alterations to the DNA helix

C. Sanchez-Cano, M. Huxley, C. Ducani, A.E. Hamad, M.J. Browning, C. Navarro-Ranninger, A.G. Quiroga, A. Rodger, M. J. Hannon, Dalton Trans., 2010, 39, 11365-11374, **DOI: 10.1039/C0DT00839G (http://pubs.rsc.org/en/Content/ArticleLanding/2010/DT/c0dt00839g)**

98. An androgenic steroid delivery vector that imparts activity to a non-conventional platinum(II) metallo-drug

M. Huxley, C. Sanchez-Cano, M.J. Browning, C. Navarro-Ranninger, A.G. Quiroga, A. Rodger, M. J. Hannon, Dalton Trans., 2010, 39, 11353-11364, **DOI: 10.1039/C0DT00838A (http://pubs.rsc.org/en/Content/ArticleLanding/2010/DT/c0dt00838a)**

97. Towards functionalizable DNA frames: Self assembly of two-component 3D DNA arrays through induction of DNA three-way junction branch points by supramolecular cylinders

D.R. Boer, J. M. C. A. Kerckhoffs, Y. Parajo, M. Pascu, I. Us◆n, P. Lincoln, M.J. Hannon, M. Coll , Angew. Chem. Intl. Ed., 2010, 49, 2336-2339, **DOI: 10.1002/anie.200906742 (http://www3.interscience.wiley.com/journal/123304761/abstract)**

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M.A. Kaczorowska, A.C.G. Hotze, M.J. Hannon, H.J. Cooper, J. Am. Soc. Mass. Spectom., 2009, 21, 300-309, **DOI:10.1016/j.jasms.2009.10.018 (http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=1172740752&_sort=r&view=c&_acct=C000010083&_version=1&_urlVersion=0&_userid=122868&md5=89ddf42ecc8a16c38cf10c391c3ac600)**

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Y. Parajo, J. Malina, I. Meistermann, G.J. Clarkson, M. Pascu, A. Rodger, M.J. Hannon, Per Lincoln, Dalton Trans., 2009, 25, 4868-4874.**DOI: 10.1039/b822039e (http://www.rsc.org/publishing/journals/DT/article.asp?doi=b822039e)**

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A.D. Richards, A. Rodger, M.J. Hannon, A. Bolhuis, Int. J. Antimicrob. Agents, 2009, 33, 469-472. **DOI10.1016/j.ijantimicag.2008.10.031 (http://dx.doi.org/10.1016/j.ijantimicag.2008.10.031)**

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L. Cardo, M.J. Hannon, Inorg. Chim. Acta., 2009, 362, 784-792. **DOI 10.1016/j.ica.2008.02.050 (http://dx.doi.org/10.1016/j.ica.2008.02.050)**

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U. McDonnell, M. R. Hicks, M. J. Hannon, A. Rodger, J Inorg Biochem., 2008, 102, 2052-2059. **DOI 10.1016/j.jinorgbio.2008.06.006 (http://dx.doi.org/10.1016/j.jinorgbio.2008.06.006)**

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J. Malina, M. J. Hannon, V. Brabec, Nucleic Acids Res., 2008, 36, 3630-3638. **DOI 10.1093/nar/gkn244 (http://dx.doi.org/10.1093/nar/gkn244)**

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M.J. Hannon, Pure and Applied Chemistry, 2007, 79, 2243-2261. **DOI 10.1351/pac200779122243 (http://dx.doi.org/10.1351/pac200779122243)**

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G. I. Pascu, A. C. G. Hotze, C. Sanchez Cano, B. M. Kariuki, M. J. Hannon, Angew. Chem., Intl. Ed., 2007, 46, 4374-4378. **DOI 10.1002/anie.200700656 (http://dx.doi.org/10.1002/anie.200700656)**

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J. Malina, M. J. Hannon, V. Brabec, Chem. Eur. J., 2007, 13, 3871-3877. **DOI 10.1002/chem.200700159 (http://dx.doi.org/10.1002/chem.200700159)**

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J. M. C. A. Kerckhoffs, J. C. Peberdy, I. Meistermann, L J. Childs, C. J. Isaac, C. R. Pearmund, V. Reudegger, S. Khalid, N. W. Alcock, M. J. Hannon and A. Rodger, Dalton Trans., 2007, 734-742. **DOI 10.1039/b614093a (http://dx.doi.org/10.1039/b614093a)**

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M.J. Hannon, Chem. Soc. Rev., 2007, 36, 280-295. **DOI 10.1039/b606046n (http://dx.doi.org/10.1039/b606046n)**

70. Shape effects on the activity of synthetic major-groove binding ligands

S. Khalid, M.J. Hannon, A. Rodger, P.M. Rodger, Journal of Molecular Graphics and Modelling, 2007, 794-800. **DOI 10.1016/j.jmgm.2006.07.004 (http://dx.doi.org/10.1016/j.jmgm.2006.07.004)**

69. Dinuclear Double Stranded Metallo-supramolecular Ruthenium Complexes; Potential Anticancer Drugs

A.C.G. Hotze, B.M. Kariuki and M.J. Hannon, Angew. Chem., Intl. Ed., 2006, 45, 4839-4842. **DOI 10.1002/anie.200601351 (http://dx.doi.org/10.1002/anie.200601351)**

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A.C.G. Hotze, J.A. Faiz, N. Mourtzis, G.I. Pascu, P.R.A. Webber, G. J. Clarkson, K. Yannakopoulou, Z. Pikramenou and M.J. Hannon, Dalton. Trans., 2006, 24, 3025 -3034. **DOI 10.1039/b518027a (http://dx.doi.org/10.1039/b518027a)**

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M.J. Hannon, P.S. Green, D.M. Fisher, P.J. Derrick, J.L. Beck, S.J. Watt, M.M. Sheil, P.R. Barker, N.W. Alcock, R.J. Price, K.J. Sanders, R. Pither, J. Davis and A. Rodger, Chem. Eur. J., 2006, 12, 8000-8013. **DOI 10.1002/chem.200501012 (http://dx.doi.org/10.1002/chem.200501012)**

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L.J. Childs, J. Malina, B.E. Rolfsnes, M. Pascu, M.J. Prieto, M.J. Broome, P.M. Rodger, E. Sletten, V. Moreno, A. Rodger and M.J. Hannon, Chem. Eur. J., 2006, 12, 4919-4927. **DOI 10.1002/chem.200600060 (http://dx.doi.org/10.1002/chem.200600060)**

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M. Pascu, G.J. Clarkson, B. M. Kariuki and M. J. Hannon, Dalton Trans. 2006, 22, 2635-2642. **DOI 10.1039/b517643c (http://dx.doi.org/10.1039/b517643c)**

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