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## Research output

### **Hypoxia-targeted cupric-tirapazamine liposomes potentiate radiotherapy in prostate cancer spheroids**

Silva, V. L., Ruiz, A., Ali, A., Pereira, S., Seitsonen, J., Ruokolainen, J., Furlong, F., Coulter, J. & Al-Jamal, W. T., 25 Sep 2021, In: International journal of pharmaceutics. 607, 121018.

### **Formulating RALA/Au nanocomplexes to enhance nanoparticle internalisation efficiency, sensitising prostate tumour models to radiation treatment**

Bennie, L. A., Feng, J., Emerson, C., Hyland, W. B., Matchett, K. B., McCarthy, H. O. & Coulter, J. A., 19 Sep 2021, In: Journal of nanobiotechnology. 19, 279 .

### **Novel tip-loaded dissolving and implantable microneedle array patches for sustained release of finasteride**

Paredes, A. J., Volpe-Zanutto, F., Permana, A. D., Murphy, A. J., Picco, C. J., Vora, L. K., Coulter, J. A. & Donnelly, R. F., 05 Sep 2021, In: International journal of pharmaceutics. 606, 120885.

### **Exploiting the anticancer effects of a nitrogen bisphosphonate nanomedicine for glioblastoma multiforme**

Jena, L. N., Bennie, L. A., McErlean, E. M., Pentlavalli, S., Glass, K., Burrows, J. F., Kett, V. L., Buckley, N. E., Coulter, J. A., Dunne, N. J. & McCarthy, H. O., 04 May 2021, In: Journal of nanobiotechnology. 19, 1, p. 127

### **Radiation Response in the Tumour Microenvironment: Predictive Biomarkers and Future Perspectives**

Byrne, N. M., Tambe, P. & Coulter, J. A., 16 Jan 2021, In: Journal of Personalized Medicine. 11, 1, 15 p., 53.

### **Clinical and functional characterization of CXCR1/CXCR2 biology in the relapse and radiotherapy resistance of primary PTEN-deficient prostate carcinoma**

LaBonte Wilson, M., Ong, C. W., Armstrong, C., Waugh, D., Maxwell, P., O'Sullivan, J., Prise, K., Butterworth, K., Coulter, J., Walker, S., Oksana, L., Gallagher, R., Jain, S., Bristow, R. G. & Mills, I., 03 Jul 2020, In: NAR Cancer. 2, 3, zcaa012.

### **Poster abstract: Novel dissolving microarray patches for intradermal delivery of finasteride**

Paredes, A., Volpe Zanutto, F., Permana, A., Murphy, A., Guerini, M., Coulter, J. & Donnelly, R., Jul 2020.

### **Polymer-Supported Gold Nanoparticle Radiosensitizers with Enhanced Cellular Uptake Efficiency and Increased Cell Death in Human Prostate Cancer Cells**

Bennie, L., Belhout, S. A., Quinn, S. J. & Coulter, J. A., 19 Mar 2020, In: ACS Applied Nano Materials.

### **Exploiting Current Understanding of Hypoxia Mediated Tumour Progression for Nanotherapeutic Development**

Feng, J., Byrne, N. M., Al Jamal, W. & Coulter, J. A., 11 Dec 2019, In: Cancers. 11, 12, 25 p., 1989.

### **Pioneering an Unconscious Bias Educational Activity with Pharmacy Students**

Hanna, L-A., Craig, R., Coulter, J., Malcolm, K., Al-Jamal, W., Haughey, S. & Hall, M., 15 Oct 2019. 1 p.

### **Cell-Penetrating Peptides as a Tool for the Cellular Uptake of a Genetically Modified Nitroreductase for use in Directed Enzyme Prodrug Therapy**

Anderson, S. D., Hobbs, R. J., Gwenin, V. V., Ball, P., Bennie, L. A., Coulter, J. A. & Gwenin, C. D., 01 Oct 2019, In: Journal of Functional Biomaterials. 10, 4

**Facilitating Professional Development and Networking Opportunities for Staff and Students in the School of Pharmacy**  
McGuckin, A., McCague, P., Lamprou, D., Hanna, L.-A., Al-Jamal, W., Coulter, J., Craig, R., Buckley, N. E. & Hall, M., 09 Sep 2019.

**DNA vaccination via RALA nanoparticles in a microneedle delivery system induces a potent immune response against the endogenous prostate cancer stem cell antigen**

Cole, G., Ali, A. A., McErlean, E., Mulholland, E. J., Short, A., McCrudden, C. M., McCaffrey, J., Robson, T., Kett, V. L., Coulter, J. A., Dunne, N. J., Donnelly, R. F. & McCarthy, H. O., 09 Jul 2019, (Early online date) In: *Acta Biomaterialia*. 96, p. 480

**Nuclear Uptake of Gold Nanoparticles Deduced Using Dual-Angle X-Ray Fluorescence Mapping**

McCulloch, A., Bennie, L., Coulter, J. A., McCarthy, H. O., Dromey, B., Grimes, D. R., Quinn, P., Villagomez-Bernabe, B. & Currell, F., 01 Jan 2019, In: *Particle and Particle Systems Characterization*. 1900140.

**Enhanced nanoparticle delivery exploiting tumour responsive formulations.**

Bennie, L. A., McCarthy, H. & Coulter, J., 21 Nov 2018, In: *Cancer Nanotechnology*. 9, 10

**Towards photon radiotherapy treatment planning with high Z nanoparticle radiosensitisation agents: the Relative Biological Effective Dose (RBED) framework**

Brown, J., Hanna, G., Lampe, N., Villagomez-Bernabe, B. A., Nicol, J., Coulter, J. & Currell, F., 09 Nov 2018, In: *Cancer Nanotechnology*. 9, 9

**Radio-resistance of PTEN-deficient prostate tumours is enhanced by treatment-induced chemokine signalling and is associated with biochemical recurrence and development of metastasis.**

Armstrong, C., Coulter, J., Ong, C. W., Maxwell, P., Butterworth, K., Oksana, L., Berlingeri, S., LaBonte Wilson, M., Walker, S., O'Sullivan, J., Salto-Tellez, M., Jain, S., Mills, I., Illidge, T., Kennedy, R., Prise, K. & Waugh, D., 01 Aug 2018.

**Octaarginine-modified gold nanoparticles enhance the radiosensitivity of human colorectal cancer cell line LS180 to megavoltage radiation**

Zhang, X., Wang, H., Coulter, J. A. & Yang, R., 19 Jun 2018, In: *International Journal of Nanomedicine*. 13, p. 3541-3552

**Gene Therapy With RALA/iNOS Composite Nanoparticles Significantly Enhances Survival In A Model Of Metastatic Prostate Cancer**

McCrudden, C., McBride, J., McCaffrey, J., McErlean, E., Dunne, N., Kett, V., Coulter, J., Robson, T. & McCarthy, H., 01 Jun 2018, In: *Cancer Nanotechnology*.

**Unravelling the cell-type dependent radiosensitising effects of gold through the development of a multifunctional gold nanoparticle**

Nicol, J. R., Harrison, E., O'Neill, S. M., Dixon, D., McCarthy, H. O. & Coulter, J. A., 01 Feb 2018, In: *Nanomedicine: Nanotechnology, Biology and Medicine*. 14, 2, p. 439-449

**Process Algebra with Layers: Multi-scale Integration Modelling Applied to Cancer Therapy**

Coulter, J., 17 Oct 2017, *Process Algebra with Layers: Multi-scale Integration Modelling Applied to Cancer Therapy*. Springer, p. 118-133

**Using Surface Plasmon Resonance excitation to determine real-time subcellular distributions of gold nanoparticles in live cells**

Bennie, L., McCulloch, A., O'Neill, S., Owen, N., Isonov, V., McCarthy, H., Currell, F. & Coulter, J., 05 Sep 2017.

**A hierarchical Bayesian approach to calibrating the linear-quadratic model from clonogenic survival assay data**

Collis, J., Hill, M. R., Nicol, J. R., Paine, P. J. & Coulter, J. A., Sep 2017, In: *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*. 124, 3, p. 541-546

**Erythropoietin drives breast cancer progression by activation of its receptor EPOR**

Chan, K. K., Matchett, K. B., Coulter, J. A., Hiu-Fung, Y., McCrudden, C. M., Zhang, S.-D., Irwin, G. W., Davidson, M. A., Rüllicke, T., Schober, S., Hengst, L., Jaekel, H., Platt-Higgins, A., Rudland, P. S., Mills, K. I., Maxwell, P., El-Tanani, M. & Lappin, T. R., 18 Mar 2017, In: *Oncotarget*. 8, 24, p. 38251-38263 13 p.

**Systemic RALA/iNOS nanoparticles; a potent gene therapy for metastatic breast cancer coupled as a biomarker of treatment**

McCrudden, C. M., McBride, J. W., McCaffrey, J., Ali, A. A., Dunne, N. J., Kett, V. L., Coulter, J. A., Robson, T. & McCarthy, H. O., 17 Mar 2017, In: *Molecular Therapy: Nucleic Acids*. 6, p. 249-258 10 p.

**Enhanced radio-sensitivity of PTEN-deficient prostate tumours mediated by inhibition of intrinsic and treatment-potentiated CXCL12-chemokine signaling**

Armstrong, C., Coulter, J., Ong, C. W., Maxwell, P., LaBonte Wilson, M., Butterworth, K., Lyubomska, O., Berlinger, S., Gallagher, R., Walker, S., O'Sullivan, J., Mills, I., Salto-Tellez, M., Illidge, T., Bristow, R. G., Kennedy, R., Prise, K. & Waugh, D., 2017.

**Multifunctional and robust composite materials comprising gold nanoparticles at a spherical polystyrene particle surface**

Belhout, S. A., Kim, J. Y., Hinds, D. T., Owen, N. J., Coulter, J. A. & Quinn, S. J., 28 Dec 2016, In: *Chemical Communications*. 52, 100, p. 14388-14391 4 p.

**Preclinical evaluation of Gold-DTTPA Nanoparticles As Theranostic Agents In Prostate Cancer Radiotherapy**

Butterworth, K. T., Nicol, J. R., Ghita, M., Rosa, S., Chaudhary, P., McGarry, C. K., McCarthy, H. O., Jimenez-Sanchez, G., Bazzi, R., Roux, S., Tillement, O., Coulter, J. A. & Prise, K. M., Aug 2016, In: *Nanomedicine*. 11, 16, p. 2035-47 13 p.

**A comparison of gold nanoparticle surface co-functionalization approaches using Polyethylene Glycol (PEG) and the effect on stability, non-specific protein adsorption and internalization**

Harrison, E., Nicol, J. R., Macias-Montero, M., Burke, G. A., Coulter, J. A., Meenan, B. J. & Dixon, D., 01 May 2016, In: *Materials Science and Engineering C: Materials for Biological Applications*. 62, p. 710-8 9 p.

**Prostate cancer cell sensitivity to the cytotoxic properties of NO: an iNOS gene therapy approach.**

McCrudden, C., Robson, T., Coulter, J., Kett, V. & McCarthy, H., May 2016.

**Gold nanoparticle surface functionalization: mixed monolayer versus hetero bifunctional peg linker**

Harrison, E., Coulter, J. A. & Dixon, D., Apr 2016, In: *Nanomedicine*. 11, 7, p. 851-865 15 p.

**Transcending epithelial and intracellular biological barriers; a prototype DNA delivery device**

McCaffrey, J., McCrudden, C. M., Ali, A. A., Massey, A. S., McBride, J. W., McCrudden, M. T. C., Vicente-Perez, E. M., Coulter, J. A., Robson, T., Donnelly, R. F. & McCarthy, H. O., 28 Mar 2016, In: *Journal of controlled release : official journal of the Controlled Release Society*. 226, p. 238-47 10 p.

**Development of TMTP-1 targeted designer biopolymers for gene delivery to prostate cancer**

McBride, J. W., Massey, A. S., McCaffrey, J., McCrudden, C. M., Coulter, J. A., Dunne, N. J., Robson, T. & McCarthy, H. O., 16 Mar 2016, In: *International Journal of Pharmaceutics*. 500, 1-2, p. 144-153 10 p.

**Imaging and radiation effects of gold nanoparticles in tumour cells**

McQuaid, H. N., Muir, M. F., Taggart, L. E., McMahon, S. J., Coulter, J. A., Hyland, W. B., Jain, S., Butterworth, K. T., Schettino, G., Prise, K. M., Hirst, D., Botchway, S. W. & Currell, F., 20 Jan 2016, In: *Scientific Reports*. 6, 10 p., 19442.

**CD74: a potential mediator of resistance in the treatment of Glioblastoma**

Magorrian, S., Coulter, J., Flannery, T., Scott, C. & Burden, R., 01 Dec 2015, p. A40 . 1 p.

**Imaging intracellular and systemic in vivo gold nanoparticles to enhance radiotherapy**

Botchway, S. W., Coulter, J. A. & Currell, F. J., 01 Oct 2015, In: *British Journal of Radiology*. 88, 1054, 13 p., 20150170.

**Viral mimetic systems: the next generation nonviral vectors**

McCarthy, H. O. & Coulter, J. A., Oct 2015, *Advances and Challenges in the Delivery of Nucleic Acid Therapeutics (Volume 1)*. Merkel, O. & Amiji, M. (eds.). Future Science Group, p. 70-81 10 p.

**Prostate cancer radiotherapy: potential applications of metal nanoparticles for imaging and therapy**

Coulter, J. A., Butterworth, K. T. & Jain, S., 01 Jul 2015, In: *British Journal of Radiology*. 88, 1054, 9 p., 20150256.

**CD44 increases the efficiency of distant metastasis of breast cancer**

McFarlane, S., Coulter, J. A., Tibbits, P., O'Grady, A., McFarlane, C., Montgomery, N., Hill, A., McCarthy, H. O., Young, L. S., Kay, E. W., Isacke, C. M. & Waugh, D. J. J., May 2015, In: *Oncotarget*. 6, 13, p. 11465-11476

**Peptide-based Cationic Nanoparticles for the Targeted Gene Therapy of Metastatic Breast Cancer**

McCrudden, C., McBride, J., Coulter, J., Robson, T., Kett, V. & McCarthy, H., Apr 2015.

**Gold nanoparticle surface functionalization: a necessary requirement in the development of novel nanotherapeutics**

Nicol, J. R., Dixon, D. & Coulter, J. A., 2015, In: *Nanomedicine*. 10, 8, p. 1315-1326 12 p.

**Nitric oxide synthase gene therapy: A potent therapeutic in metastatic breast cancer**

McCrudden, C., McBride, J., Coulter, J., Kett, V., Robson, T. & McCarthy, H., Jun 2014, p. 111. 1 p.

**Gold nanoparticle cellular uptake, toxicity and radiosensitisation in hypoxic conditions**

Jain, S., Coulter, J. A., Butterworth, K. T., Hounsell, A. R., McMahon, S. J., Hyland, W. B., Muir, M. F., Dickson, G. R., Prise, K. M., Currell, F. J., Hirst, D. G. & O'Sullivan, J. M., Feb 2014, In: *Radiotherapy and Oncology*. 110, 2, p. 342-347 6 p.

**Abstract C215: Sensitivity of PTEN-deficient prostate carcinoma xenografts to ionizing radiation through inhibition of treatment-induced CXCL8 signaling**

Armstrong, C. W. D., Coulter, J. A., Walker, S., Kennedy, R. D., Prise, K. M., O'Sullivan, J. M. & Waugh, D. J. J., Nov 2013, *Proceedings of the AACR-NCI-EORTC International Conference*. Vol. 12.

**Radiosensitising Nanoparticles as Novel Cancer Therapeutics — Pipe Dream or Realistic Prospect?**

Coulter, J. A., Hyland, W. B., Nicol, J. & Currell, F. J., Oct 2013, In: *Clinical Oncology*. 25, 10, p. 593-603 11 p.

**Potential of Inflammatory CXCL8 Signalling Sustains Cell Survival in PTEN-deficient Prostate Carcinoma**

Maxwell, P. J., Coulter, J., Walker, S. M., McKechnie, M., Neisen, J., McCabe, N., Kennedy, R. D., Salto-Tellez, M., Albanese, C. & Waugh, D. J. J., Aug 2013, In: *European Urology*. 64, 2, p. 177-188 12 p.

**Correction: Corrigendum: Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles**

McMahon, S. J., Hyland, W. B., Muir, M. F., Coulter, J. A., Jain, S., Butterworth, K. T., Schettino, G., Dickson, G. R., Hounsell, A. R., O'Sullivan, J. M., Prise, K. M., Hirst, D. G. & Currell, F. J., 18 Apr 2013, In: *Scientific Reports*. 3, 1 p., 018.

**The contribution of N<sub>2</sub>O<sub>3</sub> to the cytotoxicity of the nitric oxide donor DETA/NO: an emerging role for S-nitrosylation**

Ali, A. A., Coulter, J. A., Ogle, C. H., Migaud, M. M., Hirst, D. G., Robson, T. & McCarthy, H. O., 01 Apr 2013, In: *Bioscience Reports*. 33, 2, p. 333-349 23 p.

**Cell type-dependent uptake, localization, and cytotoxicity of 1.9 nm gold nanoparticles**

Coulter, J. A., Jain, S., Butterworth, K. T., Taggart, L. E., Dickson, G. R., McMahon, S. J., Hyland, W. B., Muir, M. F., Trainor, C., Hounsell, A. R., O'Sullivan, J. M., Schettino, G., Currell, F. J., Hirst, D. G. & Prise, K. M., 2012, In: *International Journal of Nanomedicine*. 7, null, p. 2673-2685 13 p.

**Energy Dependence of Gold Nanoparticle Radiosensitization in Plasmid DNA**

McMahon, S., Hyland, W. B., Brun, E., Butterworth, K., Coulter, J., Douki, T., Hirst, D., Jain, S., Kavanagh, A., Krpetic, Z., Mendenhall, M. H., Muir, M. F., Prise, K., Requardt, H., Sanche, L., Schettino, G., Currell, F. & Sicard-Roselli, C., 20 Oct 2011, In: *Journal of Physical Chemistry C*. 115, 41, p. 20160-20167 8 p.

#### **Nanodosimetric effects of gold nanoparticles in megavoltage radiation therapy**

McMahon, S., Hyland, W., Muir, M. F., Coulter, J., Jain, S., Butterworth, K., Schettino, G., Dickson, G., Hounsell, A., O'Sullivan, J., Prise, K., Hirst, D. & Currell, F., Sep 2011, In: Radiotherapy and Oncology. 100, 3, p. 412-416 5 p.

#### **Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles**

McMahon, S., Hyland, W., Muir, M., Coulter, J., Jain, S., Butterworth, K., Schettino, G., Dickson, G., Hounsell, A., O'Sullivan, J., Prise, K., Hirst, D. & Currell, F., 20 Jun 2011, In: Nature Scientific Reports. 1, 18.

#### **Erratum: Biological consequences of nanoscale energy deposition near irradiated heavy atom nanoparticles (Scientific Reports (2011) 1 (018) DOI:10.1038/srep00018)**

McMahon, S. J., Hyland, W. B., Muir, M. F., Coulter, J. A., Jain, S., Butterworth, K. T., Schettino, G., Dickson, G. R., Hounsell, A. R., O'Sullivan, J. M., Prise, K. M., Hirst, D. G. & Currell, F. J., 20 Jun 2011, In: Scientific Reports. 3, 1725.

#### **Nitric Oxide Methods and Protocols**

McCarthy, H. (ed.) & Coulter, J. (ed.), Dec 2010, Humana Press. 226 p.

#### **Transcriptional regulation of inducible nitric oxide synthase gene therapy: targeting early stage and advanced prostate cancer.**

Coulter, J., Page, N., Worthington, J., Robson, T., Hirst, D. & McCarthy, H., Sep 2010, In: The Journal of Gene Medicine. 12(9), 9, p. 755-765 11 p.

#### **Evaluation of cytotoxicity and radiation enhancement using 1.9 nm gold particles: potential application for cancer therapy.**

Butterworth, K., Jain, S., Coulter, J., Folker, J., McMahon, S., Schettino, G., Prise, K., Currell, F. & Hirst, D., Jun 2010, In: Nanotechnology. 21(29), 29, p. 295101-295110 10 p., 295101.

#### **Nitric oxide synthase gene therapy enhances the toxicity of cisplatin in cancer cells.**

Adams, C., McCarthy, H., Coulter, J., Worthington, J., Murphy, C., Robson, T. & Hirst, D., Feb 2009, In: The Journal of Gene Medicine. 11(2), 2, p. 160-168 9 p.

#### **Nitric oxide-A novel therapeutic for cancer.**

Coulter, J., McCarthy, H., Xiang, J., Roedel, W., Wagner, E., Robson, T. & Hirst, D., Sep 2008, In: Nitric oxide : biology and chemistry / official journal of the Nitric Oxide Society. 19(2), 2, p. 192-198 7 p.

#### **Gene therapy via inducible nitric oxide synthase: a tool for the treatment of a diverse range of pathological conditions.**

McCarthy, H., Coulter, J., Robson, T. & Hirst, D., Aug 2008, In: Journal of Pharmacy and Pharmacology. 60(8), 8, p. 999-1017 19 p.

#### **Development of a novel PSMA-driven gene therapy strategy for the treatment of prostate cancer**

Page, N. L., Coulter, J., Robson, T., McCarthy, H. O. & Hirst, D., Apr 2008, In: Human Gene Therapy. 19, p. 422-422 1 p.

#### **hOC/iNOS - A novel gene therapy approach for the treatment of advanced hormone refractory prostate cancer**

McCarthy, H., Coulter, J., Page, N., Robson, T. & Hirst, D., Apr 2008, p. 407-407. 1 p.

#### **The radiation-inducible pE9 promoter driving inducible nitric oxide synthase radiosensitizes hypoxic tumour cells to radiation**

Coulter, J. A., McCarthy, H. O., Worthington, J., Robson, T., Scott, S. & Hirst, D. G., Apr 2008, In: Gene Therapy. 15, 7, p. 495-503 9 p.

#### **Inducible nitric oxide synthase gene therapy for cancer**

Hirst, D., Robson, T., Flitney, E., Worthington, J., McCarthy, H., Coulter, J., Xian, J., Wagner, E. & Page, N., Nov 2007, p. S14-S14. 1 p.

#### **Human Osteocalcin: a strong promoter for nitric oxide synthase gene therapy, with specificity for hormone refractory prostate cancer.**

McCarthy, H., Coulter, J., Worthington, J., Robson, T. & Hirst, D., May 2007, In: The Journal of Gene Medicine. 9(6), 6, p. 511-520 10 p.

## **Enhancement of the anti-cancer potential of iNOS gene therapy under the control of a radiation-responsive synthetic CArG promoter**

McCarthy, H., Coulter, J., Scott, S., Robson, T. & Hirst, D., Apr 2007, p. 408-408. 1 p.

## **Projects**

### **R1007PMY: Anti-inflammatory radiosensitising gold nanoparticles for the treatment of prostate cancer**

Coulter, J., Butterworth, K., Jain, S. & McCarthy, H.

25/01/2019 → 30/09/2020

### **R1997PMY: GMP manufactured radiosensitising gold nanoparticles**

Coulter, J.

14/12/2018 → 30/04/2019

### **R1626PMY: Improving Patient Outcome by Integrating the Generic with the Personal**

Coulter, J.

08/04/2016 → 31/03/2017

### **R1786PMY: Nanoengineered microneedle arrays for enhanced plasmonic photothermal therapy of basal cell carcinoma**

Donnelly, R., Bell, S., Coulter, J., Mangwandi, C. & McCarthy, H.

03/07/2017 → ...

## **Awards**

## **Activities**

### **Association for Radiation Research (External organisation)**

Jonathan Coulter (Chair)

01 Jul 2018 → 30 Jun 2020

### **Association for Radiation Research 2018 Annual Meeting**

Jonathan Coulter (Conference committee co-chair)

25 Jun 2018 → 27 Jun 2018

### **Aoife Carr**

Jonathan Coulter (Host)

01 Feb 2018 → 30 Apr 2018

### **Marios Sotiropoulos**

Jonathan Coulter (Host)

01 Feb 2018 → 30 Apr 2018

### **School of Pharmacy - Work Experience Days**

Jonathan Coulter (Organiser) & Daniel Corbett (Organiser)

Jan 2018 → Feb 2018

### **International journal of molecular sciences (Journal)**

Jonathan Coulter (Peer reviewer)

Dec 2017 → ...

### **China Medical University – Queen's University Belfast Joint College**

Jonathan Coulter (Visiting lecturer)

04 Nov 2017 → 11 Nov 2017

**STFC User Meeting**

Lindsey Bennie (Speaker), Aaron McCulloch (Speaker), Shannon O'Neill (Participant), Natalie Owen (Participant), Helen McCarthy (Participant), Frederick Currell (Participant) & Jonathan Coulter (Presenter)  
05 Sep 2017

**Drug Delivery (Journal)**

Jonathan Coulter (Peer reviewer)  
Sep 2017 → ...

**British Society of Nanomedicine**

Shannon O'Neill (Speaker), Tracy Robson (Participant) & Jonathan Coulter (Presenter)  
10 Aug 2017 → 11 Aug 2017

**British Society of Nanomedicine**

Jonathan Coulter (Member of the organising committee) & Christopher Scott (Organiser)  
10 Aug 2017 → 11 Aug 2017

**British Society of Nanomedicine**

Lindsey Bennie (Speaker), Shannon O'Neill (Participant), Natalie Owen (Participant), Aaron McCulloch (Participant), Helen McCarthy (Participant) & Jonathan Coulter (Presenter)  
10 Aug 2017

**Inflammatory radiation signalling: a strategy to enhance gold nanoparticle delivery**

Jonathan Coulter (Keynote speaker)  
17 Jul 2017

**COLLOIDS AND SURFACES B-BIOINTERFACES (Journal)**

Jonathan Coulter (Peer reviewer)  
Jul 2017 → ...

**Radiation induced inflammatory signalling as a targeting strategy for locally advanced prostate cancer**

Jonathan Coulter (Invited speaker)  
30 Jun 2017

**Association for Radiation Research - Oxford 2017**

Natalie Owen (Presenter), Emma Harrison (Participant), Dorian Dixon (Participant), David Waugh (Participant) & Jonathan Coulter (Presenter)  
26 Jun 2017

**Neil Kearney**

Jonathan Coulter (Host)  
01 May 2017 → 30 Sep 2017

**All Ireland schools of Pharmacy**

Shannon O'Neill (Speaker), Tracy Robson (Participant) & Jonathan Coulter (Presenter)  
24 Apr 2017

**All Ireland schools of Pharmacy**

Natalie Owen (Speaker), Emma Harrison (Participant), Dorian Dixon (Participant) & Jonathan Coulter (Presenter)  
24 Apr 2017

**Improving the biological relevance of in vitro models using 3D cell culture**

Jonathan Coulter (Invited speaker)  
10 Jan 2017

**British Journal of Radiology (Journal)**

Jonathan Coulter (Peer reviewer)  
Jan 2017 → ...

**School of Pharmacy - Work Experience Programme**

Jonathan Coulter (Organiser) & Daniel Corbett (Organiser)  
Jan 2017 → Feb 2017

**Irish Radiation Research Society Annual Meeting**

Shannon O'Neill (Speaker), Tracy Robson (Participant) & Jonathan Coulter (Presenter)  
10 Nov 2016

**Irish Radiation Research Society Annual Meeting**

Natalie Owen (Speaker), Dorian Dixon (Participant), Emma Harrison (Participant) & Jonathan Coulter (Presenter)  
10 Nov 2016

**Nanomed - International Meeting**

James Nicol (Participant), Emma Harrison (Participant), Dorian Dixon (Participant), Helen McCarthy (Participant) & Jonathan Coulter (Speaker)  
07 Nov 2016 → 09 Nov 2016

**Cancer Translational Research Group**

Shannon O'Neill (Presenter), Tracy Robson (Participant) & Jonathan Coulter (Participant)  
28 Oct 2016

**Association for Radiation Research (External organisation)**

Jonathan Coulter (Vice Chair)  
01 Jul 2016 → 30 Jun 2018

**Association for Radiation Research**

James Nicol (Speaker), Dorian Dixon (Participant), Helen McCarthy (Participant) & Jonathan Coulter (Presenter)  
27 Jun 2016 → 29 Jul 2016

**Northern Ireland Young Scientist**

Jonathan Coulter (Participant)  
Jun 2016 → ...

**Jilin University**

Jonathan Coulter (Contributor)  
16 May 2016 → 20 May 2016

**Carron Shankland**

Jonathan Coulter (Host)  
12 May 2016

**MEDIC consortium meeting**

Jonathan Coulter (Recipient), Carron Shankland (Member), Frederick Currell (Recipient), Matthew Hubbard (Recipient) & Karen Polizzi (Recipient)  
07 May 2016

**Journal of Controlled Release : official journal of the Controlled Release Society (Journal)**

Jonathan Coulter (Peer reviewer)  
Apr 2016 → ...



**All Ireland Schools of Pharmacy Conference 2016**

Shannon O'Neill (Presenter), Tracy Robson (Participant) & Jonathan Coulter (Presenter)  
21 Mar 2016

**All Ireland Schools of Pharmacy Conference 2016**

Natalie Owen (Presenter), Emma Harrison (Participant), Dorian Dixon (Participant) & Jonathan Coulter (Presenter)  
21 Jan 2016

**Cancer Nanotechnology (Journal)**

Jonathan Coulter (Guest editor) & Suneil Krishnan (Guest editor)  
10 Jan 2016 → ...

**School of Pharmacy - Work Experience Programme**

Jonathan Coulter (Organiser)  
Jan 2016 → Feb 2016

**NanoMed**

James Nicol (Participant), Emma Harrison (Participant), Dorian Dixon (Participant), Helen McCarthy (Participant) & Jonathan Coulter (Speaker)  
24 Nov 2015

**China Medical University – Queen's University Belfast Joint College**

Jonathan Coulter (Visiting lecturer)  
16 Oct 2015 → 31 Oct 2015

**Using gold nanoparticles to improve prostate cancer outcomes**

Jonathan Coulter (Speaker)  
13 Oct 2015

**1st L H Gray Memorial Trust Symposium**

James Nicol (Presenter), Dorian Dixon (Participant), Helen McCarthy (Participant) & Jonathan Coulter (Presenter)  
19 Jun 2015

**Northern Ireland Young Scientist**

Jonathan Coulter (Contributor)  
Jun 2015 → ...

**International Congress of Radiation Research**

Jonathan Coulter (Presenter)  
25 May 2015

**Heloise Lefebvre**

Jonathan Coulter (Host)  
18 May 2015 → 28 Aug 2015

**International Journal of Nanomedicine (Journal)**

Jonathan Coulter (Peer reviewer)  
03 Feb 2015 → ...

**Gene Therapy (Journal)**

Jonathan Coulter (Peer reviewer)  
21 Jan 2015 → ...

**PLoS ONE (Journal)**

Jonathan Coulter (Peer reviewer)  
30 Dec 2014 → ...

**Nature Scientific Reports (Journal)**

Jonathan Coulter (Peer reviewer)  
16 Oct 2014 → ...

**Careers fair**

Jonathan Coulter (Contributor)  
Oct 2014

**Irish Radiation Research Society**

Jonathan Coulter (Organiser)  
06 Sep 2014

**Nitric Oxide - Biology and Chemistry (Journal)**

Jonathan Coulter (Peer reviewer)  
20 Aug 2014 → ...

**Translational Nanomedicine**

Jonathan Coulter (Presenter)  
Aug 2014

**Benardo Gabiatti**

Jonathan Coulter (Host)  
23 Jun 2014 → 19 Dec 2014

**Northern Ireland Young Scientist Event**

Jonathan Coulter (Contributor)  
06 Jun 2014

**Association for Radiation Research**

Jonathan Coulter (Invited speaker)  
Jun 2014

**Cancer Nanotechnology (Journal)**

Jonathan Coulter (Peer reviewer)  
28 May 2014 → ...

**Nano-radiation processes (NARAP-II)**

Jonathan Coulter (Invited speaker)  
02 May 2014

**Modulating radiosensitivity in PTEN deficient prostate cancers through the inhibition of treatment induced CXCL8 signalling**

Jonathan Coulter (Keynote speaker)  
03 Apr 2014

**Modulating radiosensitivity in PTEN deficient prostate cancers through the inhibition of treatment induced CXCL8 signalling**

Jonathan Coulter (Keynote speaker)  
01 Apr 2014

**Modulating radiosensitivity in PTEN deficient prostate cancers through the inhibition of treatment induced CXCL8 signalling**

Jonathan Coulter (Keynote speaker)  
31 Mar 2014

**Cancer Nanotechnology (Journal)**

Jonathan Coulter (Editorial board member)  
10 Mar 2014 → ...

**UCAS careers exhibition**

Jonathan Coulter (Contributor)  
Mar 2014

**Promoting QUB MPharm and BSc degree pathways**

Jonathan Coulter (Contributor)  
Feb 2014

**Nanomedicine: Nanotechnology, Biology and Medicine (Journal)**

Jonathan Coulter (Peer reviewer)  
22 Jan 2014 → ...

**Agency for Health Quality and Assessment of Catalonia (External organisation)**

Jonathan Coulter (Member)  
Oct 2013

**ERRS meeting**

Jonathan Coulter (Presenter)  
01 Sep 2013

**British Journal of Cancer (Journal)**

Jonathan Coulter (Peer reviewer)  
27 Jul 2013 → ...

**Gold nanoparticles - novel prostate cancer radiosensitising agents**

Jonathan Coulter (Invited speaker)  
26 Jul 2013

**Northern Ireland Young Scientist Event**

Jonathan Coulter (Contributor)  
Jun 2013

**University of Toronto**

Jonathan Coulter (Visiting researcher)  
Jun 2013 → Sep 2013

**Megane Guinot**

Jonathan Coulter (Host)  
May 2013 → Sep 2013

**International Journal of Cancer (Journal)**

Jonathan Coulter (Peer reviewer)  
26 Apr 2013

**International journal of radiation biology (Journal)**

Jonathan Coulter (Peer reviewer)  
Apr 2013 → ...

**Gold nanoparticles as sensitisers for radiation therapy - UCC**

Jonathan Coulter (Invited speaker)  
14 Feb 2013

**Journal of Pharmacy and Pharmacology (Journal)**

Jonathan Coulter (Peer reviewer)  
Jan 2013 → ...

**Careers Convention**

Jonathan Coulter (Participant)  
2013

**Langmuir (Journal)**

Jonathan Coulter (Peer reviewer)  
06 Nov 2012 → ...

**Cancer Translational Research Group**

Jonathan Coulter (Speaker)  
Nov 2012

**Clinical and Experimental Pharmacology and Physiology (Journal)**

Jonathan Coulter (Editorial board member)  
Oct 2012

**Irish Radiation Research Society (External organisation)**

Jonathan Coulter (Member)  
Sep 2012