



NaCTeM joins forces with Elsevier to develop text mining applications

Press Release

The National Centre for Text Mining (NaCTeM) has joined forces with Elsevier to develop new applications for text mining. The collaborative team will develop applications for SciVerse Applications, which provides opportunities for researchers to collaborate with developers in creating and promoting new applications that improve research workflows.

Sophia Ananiadou, Director of the NaCTeM for Text Mining, said: "Text mining supports new knowledge discovery and hypothesis generation. Elsevier's SciVerse platform will enable access to sophisticated text mining techniques and content that can deliver more pertinent, focused search results."

"NaCTeM has developed a number of innovative, semantic-based and time-saving text mining tools for various organizations [and] we are excited to work with the NaCTeM team to bring this expertise to the research community." said Rafael Sidi, Vice President Product Management, Applications Marketplace and Developer Network, Elsevier.

Elsevier is a world-leading provider of scientific, technical and medical information products and services. The company works in partnership with the global science and health communities to publish more than 2,000 journals, and close to 20,000 book titles. A global business headquartered in Amsterdam, Elsevier employs 7,000 people worldwide.

Research News

BASF is partner in the EU research project BIONEXGEN

BIONEXGEN brings together 17 partners from industry and academia who share the common goal of developing a new generation of biocatalysts for more sustainable production processes in the chemical industry. BASF is participating in this project and with its decades-long experience in White Biotechnology is taking part in research activities on new biocatalytic amine syntheses and on the use of enzymes for the synthesis of functional polymers from renewable feedstock. <http://www.bionexgen.eu/>

CoEBio3 have just released the first of a series of newsletters on the EU FP7 project BIONEXGEN - [BIONEXGEN Newsletter](#)

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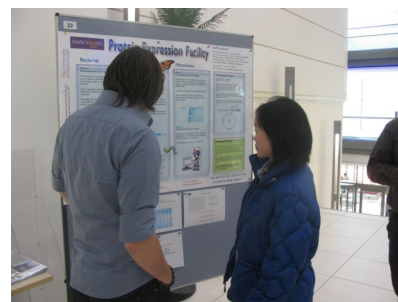
Protein Expression Facility Event

Well done to Eddie McKenzie and the Protein Expression Team who held a 'drop-in' advice session in AV Hill towards the end of last year. This initiative was very well attended and has already led to a number of new collaborations whilst promoting and helping researchers across campus offering free advice on cloning, construct design and any other protein expression issues. Event sponsors Generon (www.generon.co.uk) donated prizes for the raffle.

Future events for the facility include a workshop at the MIB on 14 February and a seminar at the Stopford Building in April 2012. This seminar will focus on collaborations with Man-

chester Royal Infirmary on a study of patients suffering from membranous nephropathy. Over the past year the team have generated a range of receptor protein fragments to help develop a diagnostic ELISA screening kit for measuring patient auto-antibodies and this has now led to a paper and grant submission.

The facility is situated on the ground floor and the team are always available to help out. Feel free to contact the facility manager [Dr Edward A McKenzie](mailto:Dr.Edward.A.McKenzie); ext. 55617.



MIB PhD Open Day

Success at the PhD Open Day

A huge thank you to everyone who assisted with the 1st PhD Open Day held late last year as part of our commitment to increasing PG training in inter-disciplinary bioscience. This event was extremely well received by our UG students:

"The PhD open day was great and well organised. I had a chance to look at previous research work done via posters and face to face conversations. I also enjoyed the fact that MIB provides a wide range of multidisciplinary projects which, allows student from different science backgrounds to work together. The lecturers were very good and approachable, they

also explained to us in detail what their projects involved (i.e. techniques used and need for it). On the other hand I had the opportunity to meet PhD students and I found out a lot about PhD student life at Manchester University, their experiences both at the labs and writing their reports".

"...these events are really important in terms of allowing us [undergraduates] to understand and appreciate the research questions currently being asked in an accessible way"

The BBSRC will announce in January the allocation of DTP studentships. The DTP scheme will provide students with excellent cross-disciplinary research training in line with the current BBSRC strategy for research support and training.

[Website](#)

Intellectual Property Awareness Resource

www.manchester.ac.uk/ipresource

UMIP – the University’s agent for intellectual property (IP) commercialisation would like to make you aware of its IP Awareness Resource, co-developed with Eversheds LLP.

The resource is targeted at academics and research staff and its aim is to increase the awareness of IP and demonstrate the benefits of its commercialisation to the University and the IP generator.

You will find a series of video clips by professionals and academic colleagues on various aspects of IP and its commercialisation. We hope that this resource gives you a valuable insight into the types of IP which can be used to protect novel ideas/inventions and how, for example, IP can be commercialised via spin-out or licence with the help of UMIP.

Also featured is information on IP & Confidentiality and Academic Materials with links to various forms, process guides and booklets which you may find useful.



Funding News

Almond Andrew BBSRC *Rationalising glycomics with GPU-accelerated equilibrium simulations: a novel route to 3D-structure, biological function and molecular design* Total Award: £420K

Keane John (PI), **Goran Nenadic**, Jianxin Pan (Mat), Stavros Stivaros (FMHS), and Xiaojun Zeng (CS) European Commission *“Linked2Safety - A Next Generation, Secure Linked Data Medical Information Space for Semantically-Interconnecting Electronic Health Records and Clinical Trials Systems Advancing Patients Safety in Clinical Research”* Total £242K to Manchester

Jason Micklefield (PI) and **Dr. Neil Dixon** (Co-I) BBSRC follow on funding to explore the *“Feasibility and benchmarking of ribotite gene expression control technology”* Award £180K

Claire Mills (CoI) with Philip Johnson and Adnan Custovic (FMHS) Novartis Pharma AG *“Double-blind Placebo Controlled Food Challenge”* Total Award: £174K

Claire Mills (PI) with Philip Johnson (FMHS) funding from the Food Standards Agency *“Management of food allergens from threshold doses to analysis in food”* Award Value: £43K

Pedro Mendes (PI) European Commission *“From Data to Models: New Bioinformatics Methods and Tools for data-Driven Predictive Dynamic Modelling in Biotechnological Applications”* Total Award: £212K

Webb Simon (PI), **Ewan Blanch**, and Jonathan Clayden (SCHEM) EPSRC *“Studying conformational change in membrane-bound peptides using ROA”*. Award £14K

Vasudevan Ramesh has been awarded EPS Faculty Strategic Research Funding to initiate a new programme of interdisciplinary research in RNA Nanotechnology. The funding will be utilised to synthesise novel RNA building blocks to fabricate and assemble RNA nanoparticles for potential application in Nanomedicine. The research will involve the application of cutting-edge RNA synthesis, latest biophysical techniques, including 1GHz NMR spectroscopy, and computational methods. £10k

Congratulations

Nicholas Turner has been awarded a Royal Society Wolfson Merit Award *“New Biocatalysts by Design and Evolution”* Award £52k

Policy and Funding Calls

EPSRC Change to Peer Review Process

EPSRC has announced two key changes to its peer review process which will be phased in over the next six months.

- **National Importance will become a primary assessment criterion alongside Research Quality from 15th November.**

Applicants will need to clearly identify the national importance of their proposed research project, over a 10-50 year time-frame. This should be articulated in relation to other research in the area, explaining how it aligns to national UK priorities, responds to user/stakeholder pull or underpins priority areas for other research councils. All proposals submitted from 15th November will need to include National Importance within their case for support. Reviewers will be asked to consider national importance as well as research quality in their assessment and panel members will be asked to prioritize based on research quality and national importance as the primary criteria.

- **Fit to the EPSRC portfolio will be considered as part of the peer review process.**

The details of this change are being developed with a group of key external stakeholders. There are a number of options EPSRC wish to test and pilot with peer reviewers and changes will not be implemented until Spring 2012.

For further information: <http://www.epsrc.ac.uk/funding/apprev/Pages/peerreview.aspx>

BBSRC – International Scientific Interchange Scheme

<http://www.bbsrc.ac.uk/funding/internationalfunding/isis.aspx>

External databases listing funding opportunities include ResearchResearch and RD Funding

Health and Safety

The MIB has an ongoing inspection programme for the building. Inspections include general lab inspections, specific biosafety inspections, dry audits and laser inspections, all of which involve inspection teams coming into the labs and looking around/speaking to people in the labs.

- General lab inspections focus mainly on general housekeeping and identifying areas of good (and bad) practice, and also look at lab safety paperwork.
- Dry audits look in specific detail at lab safety paperwork and involve in-depth discussions between the safety team and the entire research group, to identify the level of understanding in the group with regards to safety procedures and completion of safety paperwork.
- Biosafety inspections focus specifically on research groups conducting biological research, and look at housekeeping and safety paperwork; they involve discussions with group members to ensure that all researchers are aware of the safety issues relating to their biological research.



Laser inspections focus specifically on laser equipment, checking safety paperwork, training and safety control measures.

This years general lab inspections will begin soon. This is a good opportunity for all labs to ensure that the level of housekeeping in their areas is of a high standard, before the inspection team arrive!

Safety Training Courses

MIB Safety Courses

The table below shows details of the MIB H&S training courses to be held at the end of January for all new postgraduate students (which includes Masters, MChem, PhD students, etc).

All courses are **COMPULSORY** for all new postgrad students planning to work in the MIB labs – **failure to attend the complete course will result in the students not being permitted to work in the MIB labs.** Any new students who missed the training courses in September should also attend. Please let new students in your groups know about the courses. All of the sessions are also open to everyone currently in the MIB, and are a good source of refresher H&S training.

Date	Time	Course
Monday 30 th January	9.00 – 12.00	MIB H&S Induction Working in the MIB labs – good practice and lab safety Risk and COSHH assessment
Tuesday 31 st January	9.30 – 12.00	Working with biological agents Introduction to chemical safety

STDU Safety Training Courses

STDU H&S courses are run in the Sackville Street Building, close to MIB. They are available, free of charge, to all staff and research students. To book any of the courses, see:

<http://www.staffnet.manchester.ac.uk/employment/training/courses/>

If you have any health and safety concerns, please contact Dr. Tanya Aspinall, the MIB Safety and Risk Manager, in the Safety Office. (3.027, MIB)

MIB Seminar Series

International Seminar Series

Thursday 8th February 2012

Dr Jane Calvert

INNOGEN, School of Social and Political Science, University of Edinburgh

Wednesday 15th February 2012

Prof. Peter H Seeberger

Max Planck Institute of Colloids and Interfaces

For a complete list of speakers for 2011-12 please refer to the MIB [website](#). If you wish to meet with any of the speakers or have any suggestions for future speakers please contact [Christopher Cowan](#); 68713.

Internal Seminar Series

To address the demand to present at the last research conference we reintroduced the Internal Seminar Series to enable all MIB postdocs and postgrads the opportunity to present. This series is run for and by postgrads and postdocs in the MIB. Floors 3 and 2 presented in November and December 2011 respectively which leaves the Ground Floor (16 February) and Floor 1 (19 January) to present. The seminars commence at 12.00 noon and will be held in the MIB Lecture Theatre and will consist of 3 short talks per session followed by refreshments.

If you are interested in speaking at one of these events please contact [Christopher Cowan](#); ext. 68713 in the first instance.

MIB Events

Manchester Chemical Biology Network One Day Meeting - 17th January 2012

The Manchester Chemical Biology Network is holding a one day open meeting on Tuesday 17th January. The format of the day includes two keynote speakers:

Paul Brennan (Oxford University) "Chemical probes for epigenetic proteins"

Ali Travassoli (University of Southampton) "Genetic selection as a tool for drug discovery"

A full program for the day can be downloaded [here](#)

The network has funded a number of small collaborative projects (<http://www.mib.ac.uk/MCBN%20events.html>). If you are interested in attending this event and/or have ideas for novel mini collaborative projects or would like funding for researcher exchanges etc – please contact Ros LeFeuvre (r.a.le-feuvre@manchester.ac.uk).

If you wish to advertise an event please contact [Christopher Cowan](#).

MIB Macmillan Event

The organisers of the Macmillan Event would like to send a huge thank you to everyone who supported the coffee morning event. This event raised £190.00 – tripling last year's revenue!!! A well deserved success.



MIB Public Engagement

We have some funding for Public Engagement and Outreach for the MIB! A meeting was held in December 2011. If you are:

- interested in getting involved
- have ideas of things that we can do
- happy to share experiences of the events you have been involved in

Please contact [Ros LeFeuvre](#).

Publications

- T.M. Altamore, C. Fernandez-Garcia, A.H. Gordon, T. Hubscher, N. Promsawan, M.G. Ryadnov, A.J. Doig, D.N. Woolfson & T. Gallagher. **Random-coil:α-Helix Equilibria as a Reporter for the Lewis^X–Lewis^X Interaction** *Ang. Chemie*, 2011, **50**, 11167-11171. [Paper](#)
- Stephen W. Holman, Patricia Wright and G. John Langley, **The low-energy collision-induced dissociation product ion spectra of protonated beta-blockers reveal an analogy to fragmentation behaviour under electron ionisation conditions.** *Journal of Mass Spectrometry*, **46**, 1182-1185. [Paper](#)
- Sun S, Wong TS, Zhang XQ, Pu JK, Lee NP, Day PJ, Ng GK, Lui WM, Leung GK. **Protein alterations associated with temozolomide resistance in subclones of human glioblastoma cell lines.** *J Neurooncol.* 2011 Oct 7. [PMID: 21979894](#)
- Ananiadou S, Thompson P, Kano Y, McNaught J, Attwood TK, Day PJR, Keane J, Jackson DA, Pettifer S. **Towards Interoperability of European Language Resources.** *Ariadne*, 67. 2011.
- Pudney CR, Khara B, Johannissen LO, Scrutton NS. **Coupled Motions Direct Electrons along Human Microsomal P450 Chains.** *PLoS Biol.* 2011 Dec;9 [Paper](#)
- Wang X, Rak R, Restificar A, Nobata C, Rupp C, Batista-Navarro RT, Nawaz R, Ananiadou S. **Detecting experimental techniques and selecting relevant documents for protein-protein interactions from biomedical literature.** *BMC Bioinformatics.* 2011 Oct 3 [Paper](#)
- Shih B, Tassabehji M, Watson J, Bayat A. **DNA Copy number variations at chromosome 7p14.1 and chromosome 14q11.2 are associated with Dupuytren's disease: potential role for MMP and Wnt signaling pathway.** *Plast Reconstr Surg.* 2011 Dec 16 [Paper](#)
- Chawner R, Gaskell SJ, Eysers CE. **Proposal for a common nomenclature for peptide fragment ions generated following sequence scrambling during collision-induced dissociation.** *Rapid Commun Mass Spectrom.* 2012 Jan 30 [Paper](#)
- Pudney CR, Heyes DJ, Khara B, Hay S, Rigby SE, Scrutton NS. **Kinetic and Spectroscopic Probes of Motions and Catalysis in the Cytochrome P450 Reductase Family of Enzymes.** *FEBS J.* 2011 Dec 5 [Paper](#)
- Ellis DI, Goodacre R. **Metabolomics-assisted synthetic biology.** *Curr Opin Biotechnol.* 2011 Nov 18. [Paper](#)
- Ivanova E, Pang J, Jowitt TA, Yan G, Warwicker J, Sutcliffe MJ, Lu H. **Temperature-dependent study reveals that dynamics of hydrophobic residues plays an important functional role in the mitochondrial Tim9-Tim10 complex.** *Proteins.* 2011 Oct 19. [Paper](#)
- Swainston N, Smallbone K, Mendes P, Kell D, Paton N. **The SuBLiMinaL Toolbox: automating steps in the reconstruction of metabolic networks.** *J Integr Bioinform.* 2011 Nov 18 [Paper](#)
- Sebastian A, Syed F, Perry D, Balamurugan V, Colthurst J, Chaudhry IH, Bayat A. **Acceleration of cutaneous healing by electrical stimulation: Degenerate electrical waveform down-regulates inflammation, up-regulates angiogenesis and advances remodeling in temporal punch biopsies in a human volunteer study.** *Wound Repair Regen.* 2011 Nov;19(6) [Paper](#)
- Nolan KA, Dunstan MS, Caraher MC, Scott KA, Leys D, Stratford IJ. **In silico screening reveals structurally diverse, nanomolar inhibitors of NQO2 that are functionally active in cells and can modulate NFκB signalling.** *Mol Cancer Ther.* 2011 Nov 16 [Paper](#)
- Bayat A. **Connective tissue diseases: Unpicking Dupuytren Disease etiology-is Wnt the way?** *Nat Rev Rheumatol.* 2011 Nov 15. [Paper](#)
- Worthington RJ, Mickfield J. **Biophysical and Cellular Uptake Properties of Mixed-Sequence Pyrrolidine-Amide Oligonucleotide Mimics.** *Chemistry.* 2011 Nov 11. [Paper](#)
- Laurent N, Haddoub R, Voglmeir J, Flitsch SL. **MALDI-ToF MS Analysis of Glycosyltransferase Activities on Gold Surface Arrays.** *Methods Mol Biol.* 2012 [Paper](#)
- Shih B, Bayat A. **Comparative genomic hybridisation analysis of keloid tissue in Caucasians suggests possible involvement of HLA-DRB5 in disease pathogenesis.** *Arch Dermatol Res.* 2011 Oct 28. [Paper](#)
- de Cogan F, Booth A, Gough JE, Webb SJ. **Conversion of Magnetic Impulses into Cellular Responses by Self-Assembled Nanoparticle-Vesicle Hydrogels.** *Angew Chem Int Ed Engl.* 2011 Oct 25. [Paper](#)
- Small BG, McColl BW, Allmendinger R, Pahle J, López-Castejón G, Rothwell NJ, Knowles J, Mendes P, Brough D, Kell DB. **Efficient discovery of anti-inflammatory small-molecule combinations using evolutionary computing.** *Nat Chem Biol.* 2011 Oct 23 [Paper](#)
- Gupta R, Baldock SJ, Carreras P, Fielden PR, Goddard NJ, Mohr S, Razavi BS, Treves Brown BJ. **A microfluidic device for self-synchronised production of droplets.** *Lab Chip.* 2011 Nov 8 [Paper](#)
- Sebastian A, Allan E, Allan D, Colthurst J, Bayat A. **Addition of novel degenerate electrical waveform stimulation with photodynamic therapy significantly enhances its cytotoxic effect in keloid fibroblasts: First report of a potential combination therapy.** *J Dermatol Sci.* 2011 Dec; [Paper](#)

Publications *continued*

- Gupta R, Baldock SJ, Carreras P, Fielden PR, Goddard NJ, Mohr S, Razavi BS, Treves Brown BJ. **A microfluidic device for self-synchronised production of droplets.** Lab Chip. 2011 Nov 8 [Paper](#)
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- Kolluru B, Nakjang S, Hirt RP, Wipat A, Ananiadou S. **Automatic extraction of microorganisms and their habitats from free text using text mining workflows.** J Integr Bioinform. 2011 Oct 10 [Paper](#)
- Dunn WB, Goodacre R, Neyses L, Mamas M. **Integration of metabolomics in heart disease and diabetes research: current achievements and future outlook.** Bioanalysis. 2011 Oct;3(19) [Paper](#)
- Popelier PL. **Fully Analytical Integration Over the 3D Volume Bounded by the β Sphere in Topological Atoms.** J Phys Chem A. 2011 Oct 6. [Paper](#)
- Sasaki, Y., Wang, X. and Ananiadou, S.. (2011). **Extracting Secondary Bio-Event Arguments with Extraction Constraints.** In: Computational Intelligence, 27(4), 702-721 [Paper](#)
- Thompson, P., Nawaz, R., McNaught, J. and Ananiadou, S.. (2011). Enriching a biomedical event corpus with meta-knowledge annotation. In: BMC Bioinformatics, 12, 393 (Highly accessed article) [Paper](#)
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- Thompson, P., Kano, Y., McNaught, J., Pettifer, S., Attwood, T. K., Keane, J. and Ananiadou, S.. (2011). Promoting Interoperability of Resources in META-SHARE. In: Proceedings of the IJCNLP Workshop on Language Resources, Technology and Services in the Sharing Paradigm (LRTS), pp. 50-58 [Paper](#)
- Korkontzelos, I., Mu, T., Restificar, A. and Ananiadou, S.. (2011). **Text mining for efficient search and assisted creation of clinical trials.** In: Proceedings of the ACM Fourth International Workshop on Data and Text Mining in Biomedical Informatics (DTMBIO 2011) [Paper](#)
- Wang, X., McKendrick, I., Barrett, I., Dix, I., French, T., Tsujii, J. and Ananiadou, S.. (2011). **Automatic Extraction of An-giogenesis Bio-Process from Text.** In: Bioinformatics, 27 (19): 2730-2737. [Paper](#)
- Kano, Y., Björne, J., Ginter, F., Salakoski, T., Buyko, E., Hahn, U., Cohen, K. B., Verspoor, K., Roeder, C., Hunter, L., Kili-coglu, H., Bergler, S., Van Landeghem, S., Van Parys, T., Van de Peer, Y., Miwa, M., Ananiadou, S., Neves, M., Pascual-Montano, A., Ozgur, A., Radev, D. R., Riedel, S., Sætre, R., Chun, H.-W., Kim, J.-D., Pyysalo, S., Ohta, T. and Tsujii, J.. (2011). **U-Compare bio-event meta-service: compatible BioNLP event extraction services.** In: BMC Bioinformatics, 12, 481. [Paper](#)
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- Rosner, M., Attard, A., Thompson, P., Gatt, A. and Ananiadou, S.. (2011). **Extending a Tool Resource Framework with U-Compare.** In: Proceedings of the 5th Language & Technology Conference (LTC'2011) [Paper](#)
- Stenetorp, P., Pyysalo, S., Ananiadou, S. and Tsujii, J.. (2011). **Almost Total Recall: Semantic Category Disambiguation Using Large Lexical Resources and Approximate String Matching.** In: Proceedings of the Fourth International Symposium on Languages in Biology and Medicine (LBM 2011) [Paper](#)
- Batista-Navarro, R. T. B and Ananiadou, S.. (2011). **Adapting the Cluster Ranking Supervised Model to Resolve Coreferences in the Drug Literature.** In: Proceedings of the Fourth International Symposium on Languages in Biology and Medicine (LBM 2011) [Paper](#)
- Ohta, T., Pyysalo, S., Ananiadou, S. and Tsujii, J.. (2011). **Pathway Curation Support as an Information Extraction Task.** In: Proceedings of the Fourth International Symposium on Languages in Biology and Medicine (LBM 2011) [Paper](#)
- Pyysalo, S., Ohta, T. and Ananiadou, S.. (2011). **Anatomical Entity Recognition with Open Biomedical Ontologies.** In: Proceedings of the Fourth International Symposium on Languages in Biology and Medicine (LBM 2011) [Paper](#)
- Huw Jones, Peter Civan, James Cockram, Fiona J Leigh, Lydia MJ Smith, Martin K Jones, Michael P Charles, Jose-Luis Molina-Cano, Wayne Powell, Glynis Jones, Terence A Brown **Evolutionary history of barley cultivation in Europe revealed by genetic analysis of extant landraces.** BMC Evolutionary Biology 2011, 11:320 (2 November 2011) [Paper](#)
- Jinan Chai, Lu Shin Wong, Louise Giam, and Chad A. Mirkin. **Single-molecule protein arrays enabled by scanning probe block copolymer lithography** Proc. Natl. Acad. Sci. USA [Paper](#)
- Lu Shin Wong, Chinnan V. Karthikeyan, Daniel J. Eichelsdoerfer, Jason Micklefield and Chad A. Mirkin **A methodology for preparing nanostructured biomolecular interfaces with high enzymatic activity** RSC Nanoscale [Paper](#)

'The MIB promotes a culture of collective and shared values within which the contribution of each individual to the MIB is fully recognised. Inclusivity and tolerance will be advocated, and a climate of participation, collegiality, co-operability and team-working is embraced'.

Extract from the Strategic Plan of the MIB, September 2010

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MIB NEWSLETTER
January/February 2011

Communication within the MIB is based on a variety of different means and strategies:

Plasma screens provide visual reminders of events and other notices which can also be viewed by visitors to the MIB

Research Newsletter – share good news, achievements, details of upcoming events, training, funding opportunities and publications. Scope to include 'Building Issues/Updates' section. Issued monthly.

Committees - a variety of documents are regularly produced each with specific aims and areas of focus.

Open Meetings

Research Seminars occur most weeks and cover a broad range of research fields. Email notification weekly and on day of seminar.

Research Events occur throughout the year and cover a broad range of research fields

Publicity Materials have been developed to help raise the MIB's profile outside the University and include the Research Brochure

Email – various email groupings – mib-problem; mib-PI, mib-research, mib-everyone, mib-clerical

Everyone has a role to play in effective communication and all staff are encouraged to make active use of the established means of communication above or to send comments and suggestions to [Lesley-Ann Miller](#)

