

Welcome to issue 55 of FLS internal bulletin. Every month we aim to bring you a summary of things which have been happening throughout the Faculty. Don't forget to send any newsworthy items for inclusion (and pictures), or general comments about the Bulletin, to Lisa Govey, [Faculty Communications Officer](#).



Please consider the environment before printing this bulletin

GENERAL NEWS

Message from the Dean

Sent packing

A key part of my role as Dean is to talk to people – as many people as possible around the Faculty in order to find out how things are going. When I ask “How are you?” the most common reply is “Good, but busy....!” often accompanied by a pause and a smile of resignation.

If people had the time to finish that sentence, how might it go? I might hope that they would say “Busy... writing a paper that is based on a really exciting recent result in the lab”, “Busy... because I am devoting big chunks of time this semester supporting UCAS interviews”, or perhaps “Busy...pulling together colleagues so we can respond to that new funding call” Probably not. It is far more likely that people will say “Busy... replying to emails and attending meetings which get in the way of why I am really here and what I am best at doing.”

And so I make no apologies for returning to my theme of using our time profitably, and I will continue to do so until you tell me things are much better and your time is generally being spent in productive, fulfilling ways.

Although I haven't carried out a survey (time is more precious!), ad hoc comments suggest to me that meeting-free Thursday is having an effect, so I urge you to continue to observe it. Please protect the time in your diaries and plan what you are going to achieve on a given Thursday so you can make a difference – and don't just catch up with email!

Email is of course a source of intense frustration and distraction to most people in most organisations, but how often do we pause to consider who is sending all those messages that clog up our inboxes? The answer is we are. Each of us is part of the problem. We are therefore part of the solution.

In a previous bulletin message, [Issue 40/June 2011](#), I gave advice on how to manage your **incoming** email (the “4 D's” – Do, Delete, Delegate or Defer), but that is clearly treating the symptom rather than the cause. The cause is those (including all of us) who are **sending** emails. So I appeal to you to make a commitment to send fewer emails, to fewer people, in a shorter format, and only ever cc if you really have to. Think twice. Ask, “do I need to send this email at all?”, “would a phone call or a visit be more productive?”, “who do I really need to include in the list of addressees?” and “how briefly can I get my message across?”

We are currently looking into the possibility of publishing the total number of emails sent within the Faculty and University as I would like to see the volume reducing month by month. For now, why not see how many items are in **your** sent items folder,

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and try to cut down the number you send each day, week and month?
Any other radical (or simple and obvious) ideas for improving our use of time are very welcome, so do call or visit any FMT member with your suggestion – only email as a last resort!

Martin Humphries

Training and development events – November and December 2012

COSHH and Risk Assessment Work Shop for Laboratory Staff

Wed 21 Nov 09:00-11:30

Intended audience: All staff

Science Communication & Media Training - toolkit

Thurs 22 Nov 11:00-12:00 and 14:00-16:00

Intended audience: All staff and students

Academic Career Planning

Fri 23 Nov 10:00-12:00

Intended audience: Research Staff

COSHH and Risk Assessment Work Shop for Laboratory Staff

Wed 28 Nov 09:00-11:30

Intended audience: All staff

Research series: Planning your publications

Wed 28 Nov 16:00-17:00

Intended audience: Research staff and students

Personal Development and Career Consultation

Mon 3 Dec 12:00-14:00

Intended audience: Research staff only

Teaching series: Facilitating group learning

Tues 4 Dec 13:00-15:00

Intended audience: Research staff

Teaching series: How can you tell if people are learning? The art of planning and evaluating teaching

Wed 12 Dec 13:00-16:00

Intended audience: Research staff

Further details and online booking for all of these courses is available via the [training booking system \(ePROG\)](#).

Use of cephalopods

The law that governs the use of animals for scientific procedures is changing in January. As part of this change cephalopods will become protected species.

The scope of the Animals (Scientific Procedures) Act (revision November 2012) has been widened to include cephalopods to align it with EU directive 2010/63/EU so if you intend using cephalopods after 1st January 2013 appropriate licensing needs to be in place. Please contact [BSF](#) for advice.

The FLS staff iPad project

The staff iPad project was initiated to enable FLS staff to harness the many benefits of tablet technology and improve the staff work experience. Since their arrival, iPads have revolutionised the way people work by carving a solid niche in-between the smartphone and the laptop. Tablet computing is here to stay and FLS is positioned to make the most of its current features and effortlessly embrace its future.

Recognisable benefits include:-

- Portability
- Intuitive to use
- Huge variety of apps
- Easy backup
- Encourage sustainable working practices
- Tailoring your own iPad experience by selecting apps pertinent to you
- Long battery life

With these advantages, it's easy to see why the tablet is called the 'new laptop'.

Early adopters received their iPads in September and have been trialling the iPads in FLS and reviewing the most common apps. Their feedback and a host of extra information can be found in the [FLS Staff iPad wiki](#)

The current phase of this project will see iPads distributed to academics and senior PSS staff from the 19th November up to Christmas and the project will report back on progress in the New Year. In the New Year the project will also begin to host workshops and demos to disseminate information about useful apps and also encourage the use of the iPad for a variety of functions.

For any further information please contact [Caroline Hargreaves](#)

The University of Manchester's School Governor Initiative (UMSGI)

The University of Manchester's School Governor Initiative (UMSGI) is holding an event on campus on **20 November** for staff interested in finding out more about becoming a School Governor. This important initiative is part of the University's Access Agreement and is a key way in which the University can help make a difference to some of the schools in the local area. The event provides an opportunity for staff to find out more about the role of school governor, speak with current staff who are experienced governors and get details of how to register.

More information is available from [UMSGI](#). If you have any questions please contact [Alison Gregory](#).

FLS Assets between £10-£25k

As part of regulations laid out in the Wakeham review and RCUK funding guidelines the Faculty must maintain an asset register of all FLS assets costing between £10,000 and £25,000. There is therefore certain information we are obliged collect when an asset which falls in to this category is purchased.

If you purchase an asset or going forward or have purchased an asset in the recent past which falls into this category I will be in touch in due course.

If you have any queries please contact [Maria Scully](#), tel: x51843

Courier process

Feedback from various Section Meetings is that there have been hiccups in the courier process. Some of these have been caused by internal issues.

In order to make the internal process clearer we have put together a [Courier Page](#) on the FLS Intranet laying out what needs to be done internally in order for the process to function as well as we can manage. We will continue to work with the Courier Companies to resolve external issues.

Stopford Stores Secure Delivery-Collection

If anyone wants to order items for personal collection rather than transfer to a delivery point, we have set-up a new delivery point in Oracle called "Stopford Stores Secure Delivery-Collection Stopford Goods In". iProc users can select this option and will be notified by Stores directly when the goods arrive in. The goods will then be held by

Stores until such times as the requisitioner comes to collect them directly from Stopford Goods In. This service would be ideal for small but valuable items. Please note that this service does not apply to laptops, they still have to be delivered to Simon Building for encryption.

If you have any queries please contact [Maria Scully](#), tel: x51843

STAFF NEWS

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Recruiting new staff

The University has revised the delivery of recruitment and selection training. **From 1 January 2013 it will be mandatory that all colleagues involved in interviewing and selecting staff have attended a recruitment and selection course.**

Staff who have previously attended the 2-day Recruitment and Selection training course are welcome (but not required) to attend one of the new half-day courses. It is recommended that all staff undergo refresher training where they consider that their skills and knowledge need updating.

Staff who can provide evidence that they have attended a comparable training event in the past may be exempted from attending; however they should discuss this in the first instance with the Faculty Human Resources team.

Colleagues should select the most appropriate of the following course options;

Recruitment and Selection – PSS, Inexperienced Staff TMS5B, (half-day)

This course is aimed at colleagues who are new or inexperienced recruiters and are expected to be involved in short-listing and interviewing only. This session is aimed at those who will be recruiting to PSS roles.

Recruitment and Selection – PSS, Experienced Staff TMS5C, (half-day)

This course is aimed at colleagues who are experienced recruiters and who will be recruiting to PSS roles. It will enable participants to refresh their knowledge on University policy and related legislation, share good practice and identify/ discuss any barriers to effective recruitment and selection.

Recruitment and Selection – Academic, Inexperienced Staff TMS5D, (half-day)

This course is aimed at colleagues who are new or inexperienced recruiters and are expected to be involved in short-listing and interviewing only for Academic/Research roles.

Recruitment and Selection – Academic, Experienced Staff TMS5E, (half-day)

This course is aimed at colleagues who are experienced recruiters and who will be recruiting to Academic/Research roles. It will enable participants to refresh their knowledge on University policy and related legislation, share good practice and identify/ discuss any barriers to effective recruitment and selection.

To book, call the staff training team on x52525

If you need any help in choosing the most appropriate session, please contact [Denise Fieldhouse](#), x52550 or [Stephen Johnston](#), x53280

Please be aware that attendance on the half-day 'Equality and Diversity Issues' (MS9) continues to be mandatory for those staff who intend to take part on a promotion panel or who are involved in the recruitment and selection of staff.

Accessing Human Resources information

Need advice on a Human Resources or management issue but unsure who to contact? [The Human Resources pages](#) on the Faculty Intranet have the contact details for your HR team in addition to a library of documents and useful links that may help with your queries.

We are always happy to add or amend the information to make them as relevant and user-friendly as possible. If you have any suggestions for new content then please email [Stephen Johnston](#).

New Starters

Forename	Surname	Post title	Section
HUMZA	TAHIR	Research Associate	Neuro Systems
DANIEL	DAVIS	Professor of Immunology	Disease Systems
NEIL	BUTTERY	Research Associate	Tissue Systems
MARC	GOODFELLOW	Research Associate	Tissue Systems
RAQUEL	LINHEIRO	Research Associate	Molecular Systems
AMY	SAUNDERS	Postdoctoral Prize Fellowship	Education & HSTM
WILLIAM	SALVIDGE	Research Technician	Tissue Systems
ANTONIOS	DOUGALIS	Research Associate	Neuro Systems
CHRISTOPHER	KAY	Research Assistant	Neuro Systems
AMY LEE	POPPLER	Research Associate	Disease Systems
JOHN	FITZPATRICK	Lecturer in Animal Evolution	Molecular Systems
HANNAH	COUSINS	Student Support Receptionist	Life Sciences Administration
PHILIPPA	PEAKMAN	Administration Support Assistant	Neuro Systems
CHRIS	RAMSDEN	LABORATORY ASSISTANT (TEACHING)	Life Sciences Administration

University Mentoring Scheme

The University is about to embark upon the next stage of its programme of work with a local secondary school – this year, Gorton Education Village. In recent years the Human Resources Directorate, STARS and the Directorate of Estates have each been involved in a programme of work with local students ranging from making films charting their experience of visiting the University to working with staff as part of the course work for a BTEC in Hospitality and Catering. Cedar Mount Academy is part of Gorton Education Village and is a secondary school which serves Gorton and the adjacent communities. As youth unemployment continues to grow, the University and the school have developed a mentoring scheme which will give University staff the opportunity to support local young people as they begin to think about their futures.

This new programme, which will run from January 2013 - April 2013, builds upon the experiences of the earlier schemes and is in support of Goal 3 of Manchester 2015 Agenda and the wider strategy of contributing to a reduction in unemployment in the University's neighbouring communities. The programme will be delivered in small groups and 1-2-1 sessions. Staff will be able to use their work experience and wider life skills to support, mentor and encourage the young people within a structured setting. The programme is aimed specifically at those students who are unlikely to continue into further and higher education. Through a series of interactive sessions students will develop practical skills in how to get a job and also improve their confidence through engaging with adults in an unfamiliar setting and ultimately make themselves more employable.

All staff members (from any grade or work area) who have been employed for a minimum of two years are eligible to apply to become a volunteer mentor and give

around 2 hours a week to helping a Year 10 student prepare themselves for the world of work. As part of the process mentors will be asked to form teams and actively contribute through the preparation and delivery of sessions on topics such as 'Developing a CV', 'Interview Skill's and 'Preparing for the First Day of Work'. These sessions will consist of c. 20 minute presentations per team, followed by 1-2-1 mentoring time and mentors can be assured that there will be plenty of support on hand. Each mentoring session will take place during working hours on campus and all necessary training will be provided.

We are calling for volunteers from a range of job roles and backgrounds to contribute to this initiative. In addition to mentoring and group work the young people will participate in a work experience programme which will give them an insight into how the University operates alongside general experience of the world of work. Work experience will be offered in: administration, catering, estates and technical resources. Please note that we are particularly interested in recruiting staff working in Estates and Hospitality and so would particularly encourage these people to apply.

If you are interested in finding out more and becoming a mentor for this scheme please contact [Susan Hogan](#) or [Paul Marks Jones](#).

HEALTH AND SAFETY

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Hand in glove – are you getting it right?

With a large range of gloves available on the laboratory market, how do you know which ones best suit your needs. No one glove material or style will protect you against all hazards or offer 100% protection. You must consider things like the nature of the substances to which exposure might occur e.g. chemical or biological, the need for dexterity and "feel" with the gloves on and both permeation of substances and degradation of material once gloves are being used.

Selection of the correct type of gloves can be a complex business. To make it easier all suppliers of gloves are obliged to provide resistance guides including permeation and degradation data with all their gloves and this can help you select the correct glove. They must meet specific European safety standards and the packaging must bear a CE mark followed by a four digit number or they are not fit for use. Examples of compliant packing include:



Faculty Safety and Risk Team

SPOTLIGHT ON...

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FLS Core Facilities

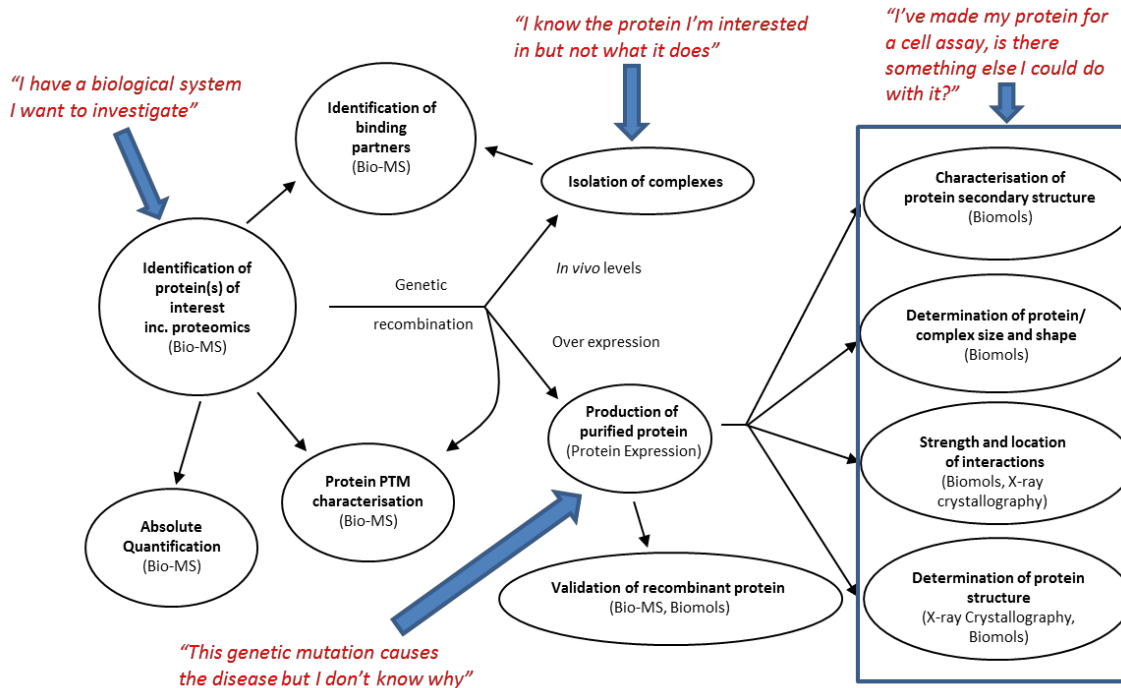
Expanding your research with the Biochemical Core Facilities

Entering new fields of research can be intimidating, however it can significantly improve the scope and impact of your work and the core facility network is here to support you. The facilities are staffed by people experienced in explaining what is possible and advising on how to practically develop your methodologies. Furthermore the facilities can be used in conjunction with one another to provide a completely new dimension to your research.

This article will specifically address how the biochemistry based core facilities for Biological Mass Spectrometry (Bio-MS), Biomolecular Analysis (Biomols), Protein

Expression and X-ray Crystallography can link together to aid researchers looking to investigate the structure and function of their protein at a molecular level.

The diagram below shows an overview of how these different biochemical approaches can be linked together and provides example entry routes into the system.



Each of the facilities has different strengths and relevance depending on the problem you are trying to address.

- Biological mass spectrometry provides you with tools to identify and characterise proteins without the issues of raising an antibody. It provides you with options for discovering new players in your system that you did not anticipate.
- Biomolecular analysis provides a window on your protein as a three dimensional dynamic machine that shifts and rearranges itself in an aqueous environment. It also not only tells you whether your proteins interact but will also measure the strengths of these interactions and helps to tell you the effect this binding has on the proteins involved.
- Protein expression is the link between your gene sequence and the functional product it will produce, especially when supported by the correct choice of expression system, cloning, protein expression and high level purification. It is the gateway to the array of biochemical characterisation approaches available.
- X-ray crystallography is simply THE gold standard in structural analysis and an incredibly valuable addition to any research portfolio.

Access to the facilities and the technologies and expertise within them is straightforward and easy to do. We can guide you in refining your ideas, support the transition between facilities and suggest collaborations with other researchers who are working in similar areas.

For further information just contact Bio-MS [David Knight](#); Biomols [Thomas Jowitt](#); Protein Expression [Edward Mckenzie](#) or X-ray Crystallography [C Levy](#).

User case example – Maryline Fresquet, Mike Briggs Lab: “The primary focus of the Briggs lab had been studying the genetics behind skeletal dysplasia, predominantly with patient screening for mutations and generating mouse models. However the FLS core facilities have helped us understand the biochemistry of the proteins involved in these diseases through advice, experimental planning and training which has resulted

in several publications.”

1. Bell PA, Piróg KA, Fresquet M, Thornton DJ, Boot-Handford RP, Briggs MD (2012). Loss of matrilin 1 does not exacerbate the skeletal phenotype in a mouse model of multiple epiphyseal dysplasia caused by a Matn3 V194D mutation. *Arthritis Rheum.* May;64(5):1529-39.
2. Fresquet M, Jowitt TA, Stephen LA, Ylöstalo J, Briggs MD (2010). Structural and functional investigations of Matrilin-1 A-domains reveal insights into their role in cartilage ECM assembly. *J Biol Chem.* Oct 29;285(44):34048-61.
3. Tompson SW, Merriman B, Funari VA, Fresquet M, Lachman RS, Rimoin DL, Nelson SF, Briggs MD, Cohn DH, Krakow D (2009). A recessive skeletal dysplasia, SEMD aggrecan type, results from a missense mutation affecting the C-type lectin domain of aggrecan. *Am J Hum Genet.* Jan;84(1):72-9.
4. Fresquet M, Jackson GC, Loughlin J, Briggs MD (2008). Novel mutations in exon 2 of MATN3 affect residues within the alpha-helices of the A-domain and can result in the intracellular retention of mutant matrilin-3. *Hum Mutat.* Feb;29(2):330.
5. Fresquet M, Jowitt TA, Ylöstalo J, Coffey P, Meadows RS, Ala-Kokko L, Thornton DJ, Briggs MD (2007). Structural and functional characterization of recombinant matrilin-3 A-domain and implications for human genetic bone diseases. *J Biol Chem.* Nov 30;282(48):34634-43.
6. *Proteomics paper submitted to Matrix Biology*

GREEN CORNER

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Every month in this section we'll show how your hard work is paying off in the Faculty and what minor changes you can make to help the University a greener place.

GREEN TIP

It takes 714 pounds (324 kilograms) of coal to run a 100 Watt light bulb 24 hours a day. That's equal to the total weight of 3 baby elephants. Don't forget to switch lights off when you leave a room.

Being green is only half the challenge – don't forget to tell everyone about it! Pride in your efforts can help inspire others.

EVENTS, SEMINARS AND MEETINGS

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The 4th Biomedical Imaging Institute (BII) Annual Showcase

The 4th Biomedical Imaging Institute (BII) Annual Showcase, will take place on **Monday 19th November 2012** at the Manchester Interdisciplinary Biocentre (MIB).

This will be a full day event with poster sessions and a programme of presentations, including several by BII students (please see attached programme). It is a great opportunity to showcase imaging research, and representatives from research councils and industry will be present on the day.

If you would like to attend this event, please complete the on-line [registration form](#)

If you require more information about this event, please contact either [Cath Wright](#) or [Jane Kear](#)

Stratified medicine themed training programme

Wednesday 13 February 2013, The Nowgen Centre

This one day course is part of Nowgen's stratified medicine themed training programme. This is an introductory level course suitable for delegates in the pharmaceutical industry and healthcare sector that require an understanding of biomarkers in research, drug development and clinical practice. The course will include

an open discussion session for delegates to discuss their areas of specific interest.

- Biomarker discovery (Dr Richard Unwin, CADET, Central Manchester University Hospitals NHS Foundation Trust)
- Biomarker validation (Dr Jeff Cummings, Paterson Institute, University of Manchester)
- Biomarkers as decision makers in drug development
- Biomarkers and patient selection (Dr Maria Orr, AstraZeneca)
- Pharmacodynamic markers
- Blood biomarkers
- Biomarkers and tissue sampling (Professor Chris Womack, AstraZeneca)

Course fee including lunch & refreshments:

up to 31 December: UK public sector £175; private & overseas £250

from 1 January 2013: UK public sector £225; private & overseas £350

[Book online](#) or for further information please contact: training@nowgen.org.uk

Women in Life Sciences group events

The forthcoming programme of courses/workshops for the WiLS group, run by external executive coaches, are as follows:

1. Coaching and Leadership programme (starts December 18th)
2. Personal Impact and Confidence workshop (January 17th)
3. Action Learning workshop (January 21st)
4. Individual coaching (date to be confirmed)

Full details of all these workshops/courses and how to apply for a place are available on the [WiLS website](#). Please note: Places on all these courses are limited and the closing date is **Monday November 19th**.

If you have any questions please contact: [Natalie Gardiner](#), tel: x55768

FLS staff Christmas drinks reception

The FLS staff Christmas drinks reception will take place between 3.00pm - 6.00pm on Friday 14 December in Michael Smith Staff Lounge. Tickets, priced at 50p, will be on sale from Wednesday 21 November at Stopford, A.V. Hill and Smith receptions. Enjoy mince pies and milled wine on arrival and a subsidised bar.

Come and join in the with the festive cheer!

Research Seminars

Please remember to send details of any seminar series to the [Seminars E-mail](#) address to ensure they are included on the Seminar Calendar. All seminars that are included on the calendar are automatically advertised using the various routes (plasma screens, posters, internet).

The seminar calendar is constantly updated and can be viewed [here](#) along with information on how to advertise a seminar.

PUBLIC ENGAGEMENT

MIB host an event for As and A Level students

The Manchester Institute of Biotechnology threw open its doors to the public on Friday 9 November for the first time since its launch in 2006. 200 As and A Level students were given a rare glimpse at life inside the research laboratories and instrumentation rooms on a series of special tours. There was also an opportunity to talk with MIB scientists during the interactive science exhibition in the atrium designed and staffed by researchers.



Sarah Haworth, a teacher from Thomas Whitham Sixth Form said: "It really was fascinating for students to get first hand experience of a University research facility and it was made all the more interesting by the enthusiasm of the researchers. I sincerely hope you are able to repeat the experience next year as it was the best University visit I have ever attended."

The event was the final part of a week celebrating the re-launch of the MIB as the Institute of

Biotechnology. Building on the open day's success it's hoped the MIB will be opened to students as an annual event.

BrainStorm

BrainStorm was a family event held in the Manchester Museum on 30th October, run by Drs Emma Gowen and Hema Radhakrishnan (FLS), together with Drs Ellen Poliakoff and Paul Warren (Psychological Sciences).

The aim was to take visitors on an interactive journey, starting with the eye and travelling "through" the brain to understand how vision affects action and other senses such as touch and hearing. Doors opened at 11.00 and it was non-stop until 3.00 when we closed! At least 200 people visited BrainStorm, with children of all ages, parents and grandparents.



There were four main themes containing posters, hands on activities and computer displays. In the first theme, "*The eye and vision*" visitors could test how good their vision and colour vision was as well as take home a photograph of the back of their eye. The idea behind the second theme "*The eye and brain*" was to show people that vision is all about the brain getting involved. There were demonstrations of visual illusions and stereograms with the

opportunity to test 3D vision. In the third theme "*the eye and action*", the importance of vision for everyday actions such as walking or making a cup of tea was highlighted. People could "fly through a star field" or see how useful 3D vision is for eye – hand coordination (bashing pegs into a block was particularly popular with small children!). Finally, in our fourth theme "*The eye and other senses*" visitors could experience how vision interacts with other senses using some startling illusions. For example, in the very popular rubber hand illusion people begin to think that a rubber hand is actually their own hand! Children enjoyed taking a quiz sheet round to answer questions about the different themes and choose a prize at the end of their visit.

Children and adults alike found the day engaging and fun. Some comments from the day include:

"It was great. Very hands-on. Many thanks"

"It was awesome!"
"I enjoyed looking at the rubber hand"
"I enjoyed learning how my eyes work"
"My daughter enjoyed inter-acting with eye/hand tests"

For more information please visit [Beamlab](#)

Acknowledgements: BrainStorm was funded and supported by Manchester Beacon, The Neuroscience Research Institute and The Wellcome Trust. Thanks to Stuart Allen and Emily Robinson for helpful advice and Nick Ogden for kindly taking photographs.

AWARDS & PRIZES

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FLS staff become members of Academia Europaea

Congratulations to Tony Day and Rob Lucas from the Faculty of Life Sciences who have recently achieved the accolade of becoming members of the Academia Europaea. Academia Europaea is a European, non-governmental association acting as an Academy. Members are eminent, individual scholars from across Europe who collectively promote learning, education and research.

Membership is by invitation only, following a peer review selection process. It is an honour that recognises individual's international scholarship. Martin Humphries said: "Tony and Rob's achievement is recognition for the quality and impact their research has had over many years. Election to Academia Europaea is highly competitive, with only 300 candidates being selected each year from a pool that covers all academic disciplines. For two Faculty scientists to be elected in one year is therefore extremely impressive and this tells us a lot about the esteem in which they are held by their peers".

Congratulations – sponsored trek to Everest base camp

Congratulations to Jane Bramhill who has recently returned from Nepal, having completed a trek to Everest base camp to raise money for Macmillan Cancer Support. Jane did this during her annual leave, rather than taking a conventional holiday. To date she has raised nearly £4,000!



PUBLICATIONS

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Disease Systems

Dobruk-Serkowska A, Caccamo M, Rodriguez-Castaneda F, Wu M, Bryce K, Ng I,

Schumacher MA, Barilla D, **Hayes F.** [Uncoupling of Nucleotide Hydrolysis and Polymerization in the ParA Superfamily Disrupts DNA Segregation Dynamics.](#) J Biol Chem. 2012 Oct 23. [Epub ahead of print] PubMed PMID: 23093445.

Goebel C, Diepgen TL, Krasteva M, Schlatter H, Nicolas JF, Blömeke B, Coenraads PJ, Schnuch A, Taylor JS, Pungier J, Fautz R, Fuchs A, Schuh W, Gerberick GF, **Kimber I.** [Quantitative risk assessment for skin sensitisation: Consideration of a simplified approach for hair dye ingredients.](#) Regul Toxicol Pharmacol. 2012 Oct 13. pii: S0273-2300(12)00190-0. doi: 10.1016/j.yrtph.2012.10.004. [Epub ahead of print] PubMed PMID: 23069142.

Hasnain SZ, Gallagher AL, **Grencis RK,** Thornton DJ. [A new role for mucins in immunity: Insights from gastrointestinal nematode infection.](#) Int J Biochem Cell Biol. 2012 Oct 27. doi:pii: S1357-2725(12)00357-3. 10.1016/j.biocel.2012.10.011. [Epub ahead of print] PubMed PMID: 23107603.

Hasnain SZ, McGuckin MA, **Grencis RK,** Thornton DJ. [Serine Protease\(s\) Secreted by the Nematode Trichuris muris Degrade the Mucus Barrier.](#) PLoS Negl Trop Dis. 2012 Oct;6(10):e1856. doi: 10.1371/journal.pntd.0001856. Epub 2012 Oct 11. PubMed PMID: 23071854; PubMed Central PMCID: PMC3469553.

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Cellular Systems

CHS Chen X, Müller GA, Quaas M, Fischer M, Han N, Stutchbury B, Sharrocks AD, Engeland K. [The forkhead transcription factor FOXM1 controls cell cycle-dependent gene expression through an atypical chromatin binding mechanism.](#) Mol Cell Biol. 2012 Oct 29. [Epub ahead of print] PubMed PMID: 23109430

Connorton JM, Webster RE, Cheng N, **Pittman JK.** [Knockout of multiple Arabidopsis cation/h\(+\) exchangers suggests isoform-specific roles in metal stress response, germination and seed mineral nutrition.](#) PLoS One. 2012;7(10):e47455. doi: 10.1371/journal.pone.0047455. Epub 2012 Oct 12. PubMed PMID: 23071810; PubMed Central PMCID: PMC3470555.

Daniel J. Klionsky and 1269 others, including **Tournier C.** [Guidelines for the use and interpretation of assays for monitoring autophagy.](#) Autophagy. 2012 Apr;8(4):445-544. PubMed PMID: 22966490; PubMed Central PMCID

Gisby MF, Mudd EA, **Day A.** [Growth of transplastomic cells expressing D-amino acid oxidase in chloroplasts is tolerant to D-alanine and inhibited by D-valine.](#) Plant Physiol. 2012 Oct 18. [Epub ahead of print] PubMed PMID: 23085840.

Kershaw CJ, **O'Keefe RT.** [Splint ligation of RNA with t4 DNA ligase.](#) Methods Mol Biol. 2012;941:257-69. doi: 10.1007/978-1-62703-113-4_19. PubMed PMID: 23065567.

Leznicki P, **High S.** SGTA [antagonizes BAG6-mediated protein triage.](#) Proc Natl Acad Sci U S A. 2012 Nov 5. [Epub ahead of print] PubMed PMID: 23129660

Yang SH, **Sharrocks AD, Whitmarsh A.** [MAP kinase signalling cascades and transcriptional regulation.](#) Gene. 2012 Oct 31. doi:pii: S0378-1119(12)01311-X.10.1016/j.gene.2012.10.033. [Epub ahead of print] PubMed PMID: 2312373

CHSTM

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