Welcome to the Spring edition of the Radiology newsletter. It is great to see the warmer weather arrive after a busy winter with many new projects started. We say a sad farewell to Richard Hill who covered Simone's maternity leave for a year. He was a very popular member of the team and his willingness to help was very welcome. We wish him all success in his new post in the research office. We are delighted that Simone is back to take up the reins leading the admin team. As ever, she has efficiently settled back in and is rapidly working her way through the many activities generated by our department. Scarlet Wang has joined us from Lucy Cavendish College and is driving excellence in the IT area following a great framework set up by Ralph Ball. He is now happily back in Canada and we are most grateful to him for all his support. Frank Reimer has taken up an exciting new post in Norway and thankfully continues to collaborate with the MR group. Andrew Patterson has decided to pursue a wonderful opportunity in industry. He promises he will be a regular visitor to the department and we hope will continue to work with us. At the beginning of April research radiographer, Kirsten Morris and medical physicist, Nick Payne started work on the BRAID and MyPEBs studies as well as supporting the other breast trials.

The VC Stephen Toope has warned of the forecasted financial position of the university and while Cambridge is in much better health than many other HEIs the clinical school has to make financial savings. We have been told there will be no equipment fund this coming year and other posts will not be supported. The department now needs to give more direct financial support to our admin team. Please remember to cost this when making grant applications. Simone will be able to help with this. The other big initiative by the university following their successful bullying and harassment campaign is promotion of research openness and integrity. As we are a world class university there is a strong desire to be leading the way here. There are courses for PIs to attend on research reproducibility and all students and post docs should attend courses on good research practice and be aware of research misconduct.

Many of us attended RSNA and ECR and there are reports from both those meetings. We had another successful regional radiology meeting with over 130 attendees at St Catherine’s College supported by a large contingent from GE Healthcare led by European lead Perry Frederick. I am delighted that Catherine Estrampes, European CEO GE Healthcare, is visiting the department and speaking at the Forum on 29th May on AI in imaging. Our annual Cambridge Imaging Festival, organised by Sarah Perkins, is being held at the cancer centre on Tuesday 21st May. This is a great opportunity for you to showcase your research. The registration link is in the newsletter.

Finally huge congratulations to Ferdia for renewal of his CRUK fellowship for the third time. This is almost unprecedented and is a wonderful reflection of the quality of his research and the regard with which he is held. And to Evis for being awarded a Wellcome Trust Innovator Award to fund her project entitled “All in one cancer imaging optimisation using an integrated mathematical and deep learning approach”

I hope you have all had a good Easter and a nice break.
Researcher Feature: Joshua Kaggie, PhD

I am originally from Salt Lake City, Utah, USA, and have lived here in Cambridge for four years as a Postdoctoral Researcher, under the guidance of Fiona Gilbert, Ferdia Gallagher, and Martin Graves. I co-supervise Dimitri Kessler, funded by a grant that I am a co-PI on.

My degrees are all in physics. I started my undergraduate doing gamma ray astronomy, where I developed electronics and programmed Cerenkov shower simulations on a super-computing cluster. A photo of me here shows myself and my friend enlarged on a 12-meter telescope in Arizona. Note the size of the fence!

I wanted to do neuroscience, and MRI was the closest path to that. The electronics skills that I developed while working in gamma ray astronomy then led me being hired in a MRI lab for building radiofrequency coils. The photo of me here shows soldering many small capacitors to make an RF shield for a local MRI transmit/receive coil used in conjunction with a specialised high magnetic field gradients for improving resolution.

While in Utah, I would backpack the Grand Canyon every summer, visiting a beautiful set of waterfalls (“Hava Su Pai”). The photo pictured of me here is a year after a flash flood created the new set of waterfalls shown. I was in the canyon during that flash flood, and returned to see these changes.

I am enjoying my time here in Cambridge. Here I am involved with the PdOCs (“Postdocs of Cambridge”), which allows me to sit on several university committees and meet many researchers here. For example, I am on the committee that helped design the “Staff Survey”, which posters you are likely to see through March. I am involved with the future acquisition of small and large animal 3.0T MRI systems.

The research that I do is very interesting. My core interest is in utilizing and improving a method called “MR Fingerprinting”, which will hopefully improve the speed that we acquire standard clinical scans. It’s a fascinating challenge because of the large number of dimensions involved in the data, which makes optimisation and computation difficult. We have applied MRF to brain and abdominal cancer, and osteoarthritis studies. I spend a lot of time improving my programming skills and have developed a fair amount of machine learning skills. The knee on the right is generated through machine learning techniques developed here – it’s a knee of a person who doesn’t exist!

I am grateful for the opportunities to work with everyone here. The Radiology Department allows me to have a lot of collaborators, which I hope will impact and improve how well several diseases are diagnosed and then treated! It is a whirlwind to keep up with everyone and everything, but that keeps it exciting!
Department News

Another Successful EARS Meeting!

On Wednesday 20th March 2019, the department hosted our annual East Anglian Radiological Society Meeting at St Catharine’s College. Highly distinguished speakers from the world of radiology presented to over 120 people in the McGrath Centre, St. Catherine’s College, followed by drinks and dinner in the dining hall, another great success and much fun had by all.

Back Row:
- Dr Jonathan Weir McCall
- Dr Bobby Agrawal
- Dr Joanna Wills (GE Healthcare)
- Professor Fiona Gilbert
- Dr Perry Frederick (GE Healthcare)
- Dr Razvan Iordache (GE Healthcare)
- Dr Fraser Robb (GE Healthcare)

Front Row:
- Mrs Karakus,
- Dr Amat Karakus,
- Dr Josh Kaggie,
- Dr Umut Karakus

Professor Meiyun Wang

The department of Radiology, on behalf of Professor Fiona Gilbert were delighted to host Professor Meiyun Wang at the 2019 East Anglian Radiological Society event. Professor Wang spent the week in Cambridge combining her visit with an opportunity to sample Cambridge and its many educational and historical attractions.
This year’s European Congress of Radiology (ECR) led more than 14,000 medical professionals from 133 countries to Vienna who offered 4,000 lectures, making it a scientifically, clinically and professionally valuable event. Radiologists from our Department were not the exception, delivering talks which were truly representative of the University of Cambridge.


Lucian’s research, on the other hand, was focused on MRI of the liver. His lecture was titled “What is the effect of steatosis, iron overload and renal function on the uptake and excretion of gadoxetic acid-enhanced MRI?”.

Likewise, three of our principal investigators Prof. Fiona Gilbert, Dr Ferdia Gallagher and Prof Evis Sala, delivered outstanding lectures at ECR 2019. Prof Fiona Gilbert gave a keynote lecture about "Decision tools and artificial intelligence in breast imaging" as well as a talk titled "How can we improve communication with our patients?". Ferdia’s lecture “Hyperpolarised MRI” captivated the attention of the audience in the Hybrid Imaging session, while Prof Sala’s lecture “Functional imaging of breast and female pelvis: Tumours of the uterus” pleased everyone who attended the functional imaging of breast and female pelvis symposium.

A special moment for us to be proud about is the fact that Ferdia was awarded an adjunct Professorship by the Medical University of Vienna. Congratulations to Ferdia Gallagher!

We believe that the participation of other colleagues (external to the Department) at ECR is worth to be mentioned and recognised, like the one of Professor Regina Beets-Tan who presented a visionary and ambitious perspective on the role of oncologic imaging in the future, capturing the aspirational mind-set dominating the conference. She made a compelling case for the increasing importance of radiology and radiologists to provide oncologists, radiation oncologists and surgeons with the information they need to deliver truly patient centred care.

Many congratulations Professor Evis Sala, who has been elected a Fellow and Member of the Board of Trustees for the European Society of Urogenital Radiology in September 2018.
Please join us in congratulating Dr Zhongzhao Teng for his paper in the European Heart Journal

**Hunting vulnerable coronary atherosclerotic plaque and beat heart attack: the power of in vivo imaging and biomechanical analysis**

Charis Costopoulos, et al., *Impact of combined plaque structural stress and wall shear stress on coronary plaque progression, regression and changes in composition*, European Heart Journal, 2019

Atherosclerosis is the single biggest killer in the world mainly due to its rupture. The focal distribution of atherosclerotic plaques suggests that local biomechanical factors may influence plaque development. The study performed by Dr Zhongzhao Teng and Professor Jonathan H Gillard in collaborations with Professor Martin R Bennett in the Department of Medicine, University of Cambridge and Professor Habib Samady, Emory University, demonstrated that plaque structural stress (PSS) and wall shear stress (WSS) have a combined impact on coronary plaque progression, regression and changes in composition. The report has been recently accepted by European Heart Journal. In this study, 40 patients were imaged by virtual-histology intravascular ultrasound (VH-IVUS) and bi-plane coronary angiography at baseline and over 12 months. PSS and WSS were calculated. In areas with lesion progression, high PSS was associated with larger increases in lipid-rich necrotic core and small increases in fibrous tissue vs. low PSS. In areas with regression, high PSS was associated with increased lipid-rich necrotic core and decreased fibrous tissue. Low WSS was associated with increased plaque burden vs. high WSS in areas with progression and a similar pattern observed in areas with regression. Areas with high PSS are associated with compositional changes consistent with increased plaque vulnerability. Areas with low WSS are associated with more plaque growth in areas that progress and less plaque loss in areas that regress. The interplay of PSS and WSS may govern important changes in plaque size and composition. Incorporation of biomechanical analysis into plaque assessment may help identify patients at higher risk of accelerated plaque growth or deleterious changes in plaque composition, and thus in need of more intensive medical therapy and close follow-up.

**Early plaque development**

- Low WSS
- In the presence of low WSS, PB increases largely due to increases FT and FF

**Plaque progression**

- Low WSS
- In the presence of low WSS, PB continues to increase largely due to increases in FT. With high PSS FT increases less and NC increases more leading to a more vulnerable plaque phenotype

**Plaque regression**

- Low WSS
- In the presence of low WSS, PB decreases less, largely due to less FT loss. With high PSS, decrease in NC is less, resulting in a more vulnerable pattern of regression

Take-home figure. Working hypothesis for the interplay between PSS, WSS and future plaque composition.

FF=fibrous tissue; FT=fibrofatty; NC=necrotic core; PB=plaque burden; PSS=plaque structural stress; WSS=wall shear stress.
Research Updates

**BRAID and MyPeBS Trial — Professor Gilbert**

Professor Gilbert has been awarded a CRUK early detection programme grant; *Risk Adaptive Breast Screening – a Tailored Imaging Approach*. This programme has 3 aims. Firstly, to determine whether women with dense breasts benefit from supplementary imaging are embarking on a prospective, multi-centre, randomised controlled trial (RCT) of 12,000 women called *Breast Screening: Risk Adaptive Imaging for Density* (BRAID). BRAID randomises those women participating in the NHSBSP who have the highest breast density to have supplementary imaging with either automated breast ultrasound (ABUS), contrast enhanced spectral mammography (CESM) or abbreviated MRI (ABB-MRI), 25% of women will not receive any supplementary imaging and they will form the control group. We anticipate that supplementary imaging will benefit at least a sub-set of the dense breast population and the overarching goal of the trial is to determine which technique gives the greatest benefit by finding smaller high grade cancers and reducing the interval cancer rate. The BRAID study is currently going through ethics and HRA approvals and we hope to begin the pilot phase soon with the randomised phase in June 2019. The second aim of the programme is to build a database of 60,000 Women, the Cambridge Cohort, so that their mammographic images can be used to test different automated density algorithms to predict subsequent late stage interval or screen detected cancers. The final objective is to validate the BOADICEA clinical risk prediction model in the screening population and determine how the CanRisk tool can be optimally implemented within the NHSBSP.

Professor Gilbert is also the UK Chief Investigator (CI) for the EU funded randomised clinical trial, *MyPeBS: International Randomized Study Comparing personalized, Risk-Stratified to Standard Breast Cancer Screening In Women Aged 40-70* lead by Professor Suzette Delaloge in France. This trial randomises women participating in breast screening between standard of care (3 yearly mammograms) and personalised care with more or less frequent mammograms. Those in the personalised, risk-based arm will have a genetic profile to look for 313 single nucleotide repeats known to be associated with breast cancer, this combined with an assessment of their breast density and factors relating to personal and family history will provide them with a risk category. Women will be differentially screened according to their risk category, mammograms will be completed at study entry and 4 years later for the low risk women, bi-annually for the average risk women and annually for the high & very high-risk women. Very high-risk women will receive supplementary breast MRI and those in the high and average risk groups with dense breasts will be offered supplementary imaging with ultrasound. The study aims to enrol 85,000 women internationally, 10,000 of those will be recruited in the UK. MyPeBS has been granted ethical and HRA approval in the UK, we are just awaiting the approval of the French data protection committee before it can begin recruiting.

**Oncologic imaging — Dr Beer and Professor Sala**

Dr. Beer is working with Prof. Evis Sala in her collaborative group. At present, oncologic imaging, is his main area of research with a focus on ovarian cancer. He is part of a hybrid-imaging study investigating the tumour marker CA125 as an imaging target molecule in patients with ovarian cancer. In addition, in cooperation with other members of Prof. Sala’s team, performs research in the field of radiomics, i.e. quantitative assessment of image heterogeneity aided by artificial intelligence – this is currently one of the most extensively discussed topics in biomedical imaging.

**Prostate positioning project - Dr Snoj and Dr Barrett**

The prostate is low in pelvis and relatively fixed in position, however position can change relative to bladder volume and rectal distension. Bladder filling affecting prostate position may be of relevance to radiotherapy planning and possibly for prostatic biopsy. 15 healthy volunteers were recruited for the study. Volunteers underwent 4 MRI studies (different drinking preps for each study). Sagittal cube imaging was performed pre (with variable bladder volumes) and post-void (with “empty” bladder). A total of 60 MRI studies of pre- versus post-void were performed and prostate positions needed to be analysed. The project is in the final stages with all data collected and only statistical analysis left to perform.
Ingoing and future PET/MR projects in the breast — Prof. Gilbert and Dr Manavaki

1) **BEHOLD** - PET/MR imaging of hypoxia and perfusion patterns in breast cancer

The study completed recruitment in Nov 2018. Image data analysis and drafting of the manuscript has been completed. We are currently preparing a paper submission to JCO.

2) **PIONEER** - $^{18}$F-FLT-PET/MR imaging substudy

New study has just opened for recruitment.

The aim of this study is to assess the feasibility of $^{18}$F-FLT-PET/MR as a technique for measuring the effect of combining a progesterone receptor agonist (megestrol acetate) with an aromatase inhibitor (letrozole) on breast cancer proliferation. PET/MR imaging will be performed in 15 breast cancer patients participating in the PIONEER trial.

3) **NaRNIA** - Sodium ($^{23}$Na) MRI for tumour characterisation and assessment of therapy response in breast cancer.

New study expected to commence in June 2019.

The scope of this study is the methodological development and optimisation of $^{23}$Na-MRI protocols for breast cancer imaging. The study further proposes to utilise biomarkers obtained from $^{23}$Na-imaging and multiparametric $^{18}$F-FDG-PET/MRI to study treatment response in breast cancer. A cohort of $\leq 20$ healthy female volunteers and $\leq 45$ female patients will be recruited.

**Grant update**

**Immune-Image** - Grant funded

As part of a multi centre consortium, and in collaboration with Prof. Brindle’s lab in CRUK –CI, Prof. Sala has been successful in application to the EU Innovative Medicines funding call. Immune-Image will develop a transformational set of imaging tracers and protocols to enable personalised medicine. Immune-Image will focus on developing molecular imaging technologies, from immunotracer design to testing in clinical research. Several targets on T-lymphocytes, macrophages and B-cells have been identified and will be pursued to selectively image these cells. The imaging results will be validated against histopathological biomarkers. The consortium brings together the expertise and facilities that are required to execute this research successfully. Evis will be working closely with Dr. Luigi Aloj on this project.

**Recent Awards and Prizes**

**Dr. Andrew Patterson** - MBA success, 90% for final thesis and a merit overall.

**Dr. Tristan Barrett** - Confirmation from Cambridge University Hospitals NHS Foundation Trust that he has been awarded a Clinical Excellence Award in this year’s round

**Dr. Tomasz Matys** - Confirmation from Cambridge University Hospitals NHS Foundation Trust that he has been awarded a Clinical Excellence Award in this year’s round

**Student Update**

Ammara Usman Degree Committee have agreed to approve the PhD Degree.

Surin Deen: has sat his viva, Degree Committee has agreed to approve the PhD Degree subject to corrections required by examiners.
James Grist Board of Graduate Studies, on the recommendation of the Degree Committee, have agreed to approve the PhD subject to submission of both a hard-bound and electronic copy of his thesis. Shuo Wang has sat his viva and the Board of Graduate Studies, on the recommendation of the Degree Committee for the faculty concerned, have agreed to approve his PhD Degree. Dimitri Kessler has passed his 1st year oral exam and registered fully for PhD. Stephan Ursprung has passed his 1st year oral exam and registered fully for PhD. Gabrielle Baxter has passed her 1st year oral exam and registered fully for PhD. Chang Sun has passed his 1st year oral exam and registered fully for PhD. Sally Andrews has passed her 1st year oral exam and registered fully for PhD. Rafael Rehwald has requested leave to work away, which has been approved, to enable the current direction of his project in collaboration with colleagues at Kings College, London.

Please welcome our new department staff!

Dr Lucian Beer
Clinical Research Fellow
working with Prof. Sala

Dr Jonathan Weir-McCall
Clinical Research Associate
working with Prof. Gilbert

Kirsten Morris
Research Radiographer
working with Prof. Gilbert

Dr Nicholas Payne
Research Associate
working with Prof. Gilbert

Kelly Holmes
Advanced Cancer Imaging Programme Manager
CRUK Cambridge

Johanna Field-Rayner
Clinical trials Coordinator

Elizabeth Latimer-Bowman
Senior Research Technician
working with Dr Gallagher

Vencel Somai
Research Assistant
working with Prof. Sala

Scarlet Wang
Senior IT technician
Welcome New Visitors!

Dr Ziga Snoj
ESOR Scholar working with Dr Barrett

Dr Giorgia Soppelsa
ESOR Scholar working with Professor Gilbert

Dr Ilaria Musetto
Visiting Researcher working with Prof. Sala

Dr Lina Jing
Visiting Researcher working with Prof. Gilbert and Dr Teng

Recent Publications - September 2018 ~ March 2019

- Clauser P, Helbich TH, Kapetas P, Pinker K, Bernathova M, Woitek R, et al. Breast lesion detection and characterization with contrast-enhanced magnetic resonance imaging: Prospective randomized intraindividual comparison of gadoterate meglumine (0.15 mmol/kg) and gadobenate dimeglumine (0.075 mmol/kg) at 3T. J Magn Reson Imaging [Internet]. 2018 Dec 15; Available from: https://www.ncbi.nlm.nih.gov/pubmed/30552829

- Frangos S, Buscombe JR. Why should we be concerned about a “g”? Eur J Nucl Med Mol Imaging. 2018 Nov 6;


• Caglic I, Barrett T. DWI in lymph node staging for prostate cancer. Translational Andrology and Urology. 2018 Oct;

• Grist JT, Gallagher F. 13C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. Nature Scientific Reports. 2018 Sep 27;


• Mendichovszky IA. Renal blood oxygenation level-dependent (BOLD) MRI to measure renal tissue oxygenation: a statement paper and systematic review. Nephrology Dialysis Transplantation. 2018 Sep;

Upcoming Events

Wednesday Forums—1 CPD credit
To receive your CPD certificate, please register your attendance online

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<th>DATE</th>
<th>CHAIR</th>
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<td>1st May</td>
<td>FJG</td>
<td>Professor Raman Uberoi</td>
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<td>8th May</td>
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<td>Patient Safety &amp; Governance Meeting</td>
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<td>Dr Miltiadis Krokidis</td>
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<td>Dr Catherine Estrampes</td>
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<td>Humanizing AI in Radiology</td>
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<td>5th June</td>
<td>FJG</td>
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<td>Professor Pek Lan Khong</td>
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Radiology Research Seminars
These research-focused seminars are regularly advertised in advance and take place on Mondays at noon. Any suggestions for suitable speakers, please let Josh Kaggie know.

Cambridge Imaging Festival
Tuesday 21st May
https://radiology.medschl.cam.ac.uk/cambridge-imaging-festival-2019/
Equality, Diversity and Wellbeing News

Our Equality and Diversity officer is Laura Lecherman

Our thanks to Dr. Frank Riemer for several years’ service as E&D officer for the department. Following Frank’s departure at the end of February, Laura Lecherman has kindly stepped up from student representative to be E&D officer for the department. If you are able to volunteer either as student representative, or deputy E&D officer, please contact Laura. Please note the following upcoming events:

University pool bike scheme:
https://www.environment.admin.cam.ac.uk/what-are-we-doing/travel/get-cycling/pool-bikes
Also included electrical bikes.

Research Integrity: A workshop for group leaders
Date: 23rd May 2019  Time: 3.30-5.00pm
Prevention is better than cure: an interactive workshop for group leaders to help maintain the highest standards in research practice. Please click here for more details and booking.

Escott Hunt: Specialist Media Training
Date: 1st May 2019  Time: Morning session and afternoon session available
Bespoke small group training for media interviews. This introductory media skills training course, designed specifically for researchers and academics, will give you the toolkit of skills needed to handle interviews. Please click here for more details. If you are a researcher or academic interested in the course please email: csdiversity@admin.cam.ac.uk with your details and expressing your interest.

The Clinical School Mentor scheme: https://mentoring.medschl.cam.ac.uk/

Department Website

In every newsletter, we will be requesting that all department members – including students - update three specific tasks for us:

• Please ensure that your Symplectic account is up to date. We pull publication data for the website using this database, so to make sure your publications are up to date on the website.

• Please send us any news or information about the projects you’re working on! We want to publicise the department’s achievements as much as possible, and get your names out there. The following are points of contact for research groups:

  - Ramona Woitek  rw585@cam.ac.uk
  - Kelly Holmes  Kelly.Holmes@cruk.cam.ac.uk
  - Tristan Barrett  tb507@medschl.cam.ac.uk
  - Joshua Kaggie  jk636@cam.ac.uk
  - Zhongzhao Teng  zt215@cam.ac.uk
  - Tomasz Matys  tm418@cam.ac.uk
  - Yuan Huang  yh288@cam.ac.uk
  - Jamie MacKay  jwm37@cam.ac.uk
  - Miranda Townsend  mjt205@medschl.cam.ac.uk

The website pages on research teams and projects are out of date. Any material available for public consumption would be a great help!

It goes without saying that it is essential in the current academic market to promote your work, and we want to help you do that!
OPEN ACCESS UPDATE

As you all know, since HEFCE’s policy change, in order for any publications to be eligible for the REF they must be made Open Access. We want to make sure our department is 100% compliant.

The university has a team in place dedicated to making sure this process is as simple as possible and has now linked Open Access with Symplectic Elements so that publication data will be filled automatically from databases.

When a journal accepts your paper for publication, upload it through Symplectic before you sign any copyright or Open Access agreements.

See this page for more information on how to submit accepted publications: http://osc.cam.ac.uk/open-research/symplectic-elements-deposit-pilot/depositing-articles-symplectic-elements.

You can also contact the open access team directly at: info@openaccess.cam.ac.uk

OPEN ACCESS FAQs

If I am not the first or last author, do I still need to submit?

A: If the first author is in our department - ask them to submit.

- If they are in another Cambridge department and you have access to the accepted manuscript please submit it anyway.
- If you are the only Cambridge author please submit if possible.
- The bottom line is to have as many of our publications be eligible for the REF as possible. The Clinical School evaluates us on our compliance levels, and this reflects on both the department and the University.

When do I submit to/contact the Open Access Team?

As soon as the paper is ACCEPTED. This is because the Open Access Team will want to support you in making sure the publication is published under the correct Open Access license. This needs to happen during the initial negotiations, before you have signed the publisher agreement. The acceptance date is also how compliance with the HEFCE policy is determined.

FEEDBACK

We are currently working hard to improve communication and development within the department, and a big part of that work requires feedback from you. We are open to hearing any feedback or suggestions you have. If you’d like to provide feedback on anything department related, in addition to coming to see us, you can now provide it through a feedback form located on the Internal website via this link:

http://radiology.medschl.cam.ac.uk/internal/feedback/

We want to hear from all of you in relation to achievements, updates, news and any information you would like to share with the Department.