



Artificial Intelligence to improve diagnosis and prognosis of breast cancer

The Nottingham Breast Research and Digital Pathology Research Group led by Professor Emad Rakha has started a collaborative research project with Google AI (Artificial Intelligence) Healthcare. Our global expertise in breast cancer research and having a vision towards Digital Pathology and Artificial Intelligence based research attracted the attention of Google AI team to set up this collaboration. Our objectives are to create a precious library of high-quality histological images linked to the clinical, pathological and outcome data and using this library to accelerate the application of machine learning techniques to refine the diagnosis and prognosis of breast cancer and other precursor lesions.



Professor Rakha and his team hosted 11 members from Google research team in a 2 day visit 21st/22nd November, 2019. The Google team was impressed with the facilities at the University of Nottingham and University Hospital Trusts and with the amount of work that the breast research group are carrying out to establish this collaboration. We are hoping to get fruitful outcomes from this collaboration for patients' benefit.

Firewalk fundraiser for NBCRC

On Saturday 23rd November we held our first Firewalk at University Park. 36 fundraisers braved the hot coals, among them official Robin Hood, Tim Pollard and BBC Radio Nottingham's Mark Dennison. Almost £7000 has been raised so far for the Nottingham Breast Cancer Research Centre!

Thank you to everyone that took part. The Trent building looked spectacular too, turning pink in support of breast cancer.



Quiz night success

NBCRC supporter Pam Taylor recently organised a quiz at The Royal Oak in Watnall. The turnout was excellent and £600 was raised for NBCRC. Thanks to all who attended and especially to Pam for organising. All monies raised will go to support new exciting breast cancer research here in Nottingham.

Anyone for a trip to the pub?

The Fox and Grapes, Southwell Rd, Nottingham is also hosting a charity quiz night in support of NBCRC - 5 Feb 2020 at 8pm.

Raise a team or simply come and raise a glass and support some of your colleagues.

Save the Date: We have recently been informed that some of our supporters will be once again arranging a charity ball for NBCRC. Please put the date in your diaries, and help to make this another fabulous fundraiser and fantastic night out.

Boobie Ball - November 7th 2020, The Nottingham Belfry Hotel

New Research Initiatives

The first round of pilot grants have now started. The 3 projects that received funding are:

- **Dr Andrew Green:** Can we stop the nutrients that cause growth in breast cancer cells being used?
- **Dr Judith Ramage:** Tissue resident immune cells in breast cancer
- **Prof Srinivasan Madhusudan:** Personalising breast cancer therapy by targeting DNA repair mechanisms

We are also grateful for support from the Masonic Charitable Foundation to fund two new clinical PhD training fellowships. Interviews will take place in the New Year. More details to follow once the successful candidates have taken up the opportunity.

Membership Update

Thank you to Steering Group members Prof Ian Ellis, Prof Steve Chan and Prof Emad Rakha who helped NBCRC get up and running in it's first two years.

We welcome our new Steering Group members:

Dr Simon Johnston – oncologist with special interest in luminal breast cancer

Prof Anna Grabowska – scientist with special interest in predicting chemotherapy response in breast cancer

Prof Cameron Alexander - Professor of Polymer Therapeutics at the School of Pharmacy and part of a team of researchers aiming to develop materials which can transport breast cancer drugs more effectively in the body to reach their targets.



Flying the flag for NBCRC in Pakistan

Dr Andy Green, Deputy Director, was recently invited to speak at the Liaquat University of Medical and Health Sciences International Conference in Jamshoro, Pakistan where he has been made a Visiting Professor. He presented his research conducted in the NBCRC on Glutamine Metabolism in Breast Cancer.



The picture shows Andy, wearing a traditional Sindh scarf, meeting with the Vice-Chancellor Prof. Bikha Ram Devrajani and Director of Research Innovation & Commercialisation, Dr Binfasha Syed, a previous PhD graduate from Nottingham.

New home for many NBCRC researchers

Many of our NBCRC members have recently moved into a fantastic new facility on University Park, Nottingham. The Centre is part of a new Biodiscovery Institute, to be formally launched next year. This co-location will help to facilitate increased discussion and collaboration between NBCRC research groups. An open day and tours of the new laboratories will be arranged next year.



KEEP US INFORMED

Are you... Planning, doing, or have already done a fundraising event to support Nottingham Breast Cancer Research Centre? Due to new data protection rules, we are not always aware of your fundraising efforts. If you would like to keep us aware of what you are doing please get in touch: nbcrc@nottingham.ac.uk

FUNDRAISING SUPPORT

For all things fundraising please seek the advice and support of our NBCRC Community Fundraising Manager Dawn Broomfield.

Dawn can be contacted by email: dawn.broomfield@nottingham.ac.uk or on 0115 74 84809

HOW TO GIVE

Every little bit helps. **100% of every penny given goes directly to our research.** If you would like to donate, please visit: <https://www.nottingham.ac.uk/impactcampaign/projects/breast-cancer-research/breast-cancer-research.aspx>

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