

Centre for Regenerative Medicine Research

Spring 2023 Newsletter

Editorial

Welcome to the Centre for Regenerative Medicine Spring Newsletter!
The Centre Board and I thought that a quarterly Newsletter might be the most effective way of communicating the research events, funding opportunities and outputs/activity of interest to our diverse scientific and clinical membership. We hope that you enjoy the first edition!

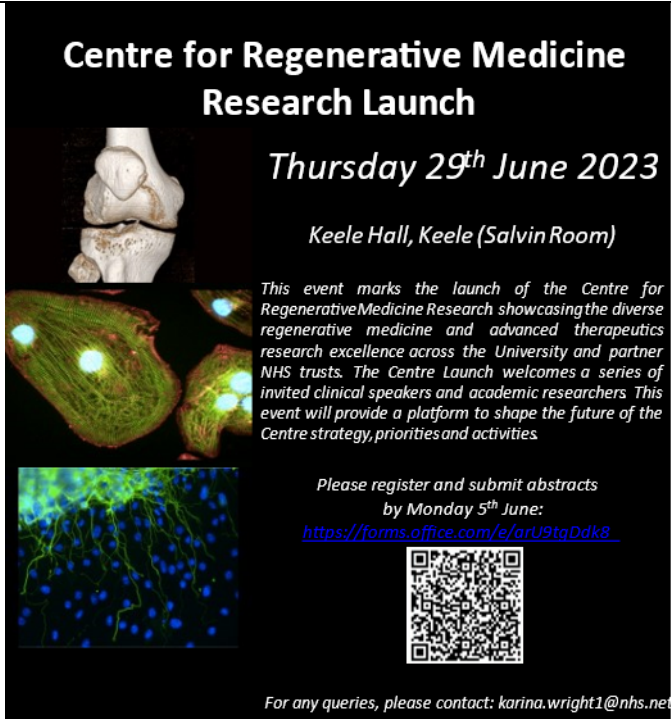



Karina Wright PhD
Director, Centre for Regenerative Medicine Research

Past Events			
	Event Title/ Date/ Location	Review	Reporter
1.	Bioreactor Course, Keele University 21-Mar-2023 - 24 - Mar-2023	<i>Drs Charlotte Hulme and Karina Wright organised the 2023 Bioreactors and Growth Environments Workshop. The workshop welcomed over 70 delegates, from the UK, Europe and further afield. Speakers included experts from academia and industry, providing an overview of the basic principles of bioreactor design through to their clinical applications. We had some excellent student engagement in the 'Design a Bioreactor Challenge', with the winning group (from Keele) working together to develop a novel bioreactor for assessing tissue engineered tendons.</i>	Dr Charlotte Hulme
2.	TERMIS EU Manchester 28-Mar-2023/ 31-Mar-2023	<i>Keele and the RJAH Orthopaedic Hospital was well represented at the Tissue Engineering and Regenerative Medicine International Society meeting held last month in Manchester. Invited and selected podium presentations were delivered by Prof Ying Yang, Drs Karina Wright and Oksana Kehoe, as well as a number of post-graduate students. Keele's Arjan Atwal (PhD student) won 1st Place Oral Presentation awarded by The Tissue and Cell Engineering Society for their presentation "A Novel Injectable Hydrogel-based Drug Delivery System for the Repair of Cartilage Defects"</i>	Dr Karina Wright

Past Events

Upcoming Events

	Event Date/ Location	Event Title/Location	Deadlines
1.	20-Apr-2023/ 21-Apr-2023	Tissue Microenvironment and Disease Workshop Keele Hall	Abstracts: Passed
2.	28-Apr-2023	RJAH Research Day Oswestry	Abstracts: Passed
3.	27-Apr-2023/ 29-Apr-2023	ICRS France	Abstracts: Passed
4.	31-May-2023/ 03-Jun-2023	EULAR Milan	Abstracts: Passed
5.	26-Apr-2023 09:00-16:30	Midlands flow Nottingham	Abstracts: Passed
6.	14-Jun-2023 09:30-16:00	Keele research Keele Hall	Engagement Poster: 30-Mar-2023
7.	29-Jun-2023 09:30-16:00	 <p>Centre for Regenerative Medicine Research Launch</p> <p><i>Thursday 29th June 2023</i></p> <p><i>Keele Hall, Keele (Salvin Room)</i></p> <p><i>This event marks the launch of the Centre for Regenerative Medicine Research showcasing the diverse regenerative medicine and advanced therapeutics research excellence across the University and partner NHS trusts. The Centre Launch welcomes a series of invited clinical speakers and academic researchers. This event will provide a platform to shape the future of the Centre strategy, priorities and activities.</i></p> <p><i>Please register and submit abstracts by Monday 5th June:</i> https://forms.office.com/e/arU9tgDdk8</p>  <p><i>For any queries, please contact: karina.wright1@nhs.net</i></p>	Abstracts & Registration: 5-Jun-2023
8.	13-Jul-2023/ 15-Jul-2023	GRAPPA Dublin	Abstracts: 07-Apr-2023
9.	09-Sep-2023/ 12-Sep-2023	ICRS Barcelona	Abstracts: 31-Mar-2023
10.	14-Sep-2023/ 15-sep-2023	Biomedeng23 Swansea	Abstracts: 28-Apr-2023
11.	25-Sep-2023/ 26-sep-2023	BORS Cambridge	Abstracts: 02-May-2023

Past Events			
12.	8-Oct-2023/ 11-cot-2023	ISCoS 2023 Edinburgh ICC	Abstract: Passed

Funding Opportunities:

National Institute for Health and Care Research (NIHR): <https://www.nihr.ac.uk/funding/2352-body-fluid-based-biomarkers-in-traumatic-brain-injury/32984>

Biotechnology and Biological Sciences Research Council (BBSRC): <https://www.ukri.org/opportunity/bbsrc-standard-research-grant/>

The Royal Society: <https://royalsociety.org/grants-schemes-awards/grants/grants-schedule/>

Versus Arthritis: <https://www.versusarthritis.org/research/information-for-researchers/fellowships/types-of-fellowship/>

Awarded Funding:

ICRS Focus Meeting Allografts & Synthetics Scholarship awarded to Dr Jade Perry. <https://cartilage.org/icrs-focus-nice/>

ECMage Exchange and Mobility Funding awarded to Dr Oksana Kehoe, which will allow Henry Barrett (PhD Student) to visit their collaborators at the King's College London, Guy's Hospital to learn the technique of regulatory T cells expansion.

Dr Karina Wright and Prof Snow are Key Researchers in the Next Generation Therapies Theme of the Birmingham NIHR Biomedical Research Centre Renewal

<https://www.birminghambrc.nihr.ac.uk/birmingham-brc-launch-and-showcase-event/>

As part of this collaboration the Oswestry team have been awarded funding for a 5-year Technical Post. [Please click here for further details.](#)

Research Outputs:

Hulme CH, Peffers MJ, Roberts S, Gallacher P, Jermin P & Wright K. (2023). Proteomic Analyses of Autologous Chondrocyte Implantation Plasma Highlight Cartilage Acidic Protein 1 as a Candidate for Preclinical Screening. *American Journal of Sports Medicine*, In Press.

McCarthy HS, Tins B, Gallacher PD, *et al.* (2023). Histological and Radiological Assessment of Endogenously Generated Repair Tissue In Vivo Following a Chondral Harvest. *CARTILAGE*. 2023;0(0). doi:10.1177/19476035221149523

Harrison P, Hopkins T, Hulme C, McCarthy HS, Wright K. (2023). Chondrocyte Isolation and Expansion. In: Stoddart, M.J., Della Bella, E., Armiento, A.R. (eds) *Cartilage Tissue Engineering. Methods in Molecular Biology*, vol 2598. Humana, New York, NY. doi.org/10.1007/978-1-0716-2839-3_2

Snow M, Kuiper JH, James S, Keeling E, Rich S, Amit P. (2023). A pilot randomised controlled trial assessing standard versus dermal patch-augmented rotator cuff repair found no adverse effects and suggest future trials need a minimum of 150 patients. *Knee Surg Sports Traumatol Arthrosc.* 2023 Mar 2. doi:10.1007/s00167-023-07356-5.

Snow M, Middleton L, Mehta S, Roberts A, Gray R, Richardson J, Kuiper JH, *et al.* (2023) ACTIVE Consortium A Randomized Trial of Autologous Chondrocyte Implantation Versus Alternative Forms of Surgical Cartilage Management in Patients With a Failed Primary Treatment for Chondral or Osteochondral Defects in the Knee. *Am J Sports Med.* Feb;51(2):367-378. doi:10.1177/03635465221141907.

Makos A, Kuiper JH, Kehoe O, Amarasena R. Psoriatic arthritis: review of potential biomarkers predicting response to TNF inhibitors. *Inflammopharmacology.* 2023 Feb;31(1):77-87. doi: 10.1007/s10787-022-01092-x. Epub 2022 Dec 12. PMID: 36508130; PMCID: PMC9957889.

Useful Web Links:

Centre for Regenerative Medicine Research:

<https://www.keele.ac.uk/research/ourresearch/pharmacyandbioengineering/regenerativemedicine/>

Oswestry Keele Orthopaedic Research group: <https://oskor.netlify.app/>

The Wolfson Centre for Inherited Neuromuscular Disease: <http://www.glenmorris.org.uk/>

If you have anything that you would like included in the next Centre Newsletter, please email it to karina.wright1@nhs.net

