



BRITISH SOCIETY FOR NANOMEDICINE

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Welcome to the British Society for Nanomedicine Newsletter

With the global benefits of the new science of nanomedicine growing each year, the British Society for Nanomedicine has been created to allow open access for industry, academia, clinicians and the public to news and details of ongoing research throughout the UK.

As a registered charity (Charity number 1151497) our mission includes the direct explanation of the ongoing science and commercial developments to allow the public to understand and stay in touch with this exciting area as it impacts future global healthcare. Scientists can also present their latest advances and highlight their work to industry and other researchers.

The Society is affiliated to other leading organisations involved with nanomedicine including: CLINAM, the European Technology Platform for Nanomedicine, the British Pharmacological Society and the American Society for Nanomedicine.

You are welcome to join the Society through our membership page online. We would be happy to hear your comments and any suggestions as to how you want to be involved with the BSNM.

New Trustees

A big welcome to Dr Neill Liptrott, Dr Ioanna Mela, Dr Marco Giardiello and Dr Rachel Townsend who have joined the team of BSNM trustees following the October election.

For more information, please click on the image to take you to the individual's profile.



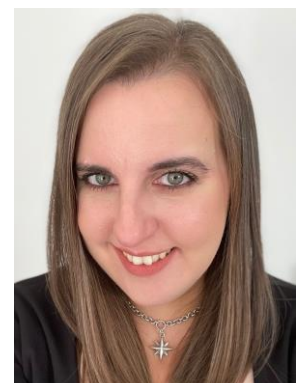
Neill



Ioanna



Marco



Rachel

BSNM Champions News

BSNM Champion Dr Eeshani Bendale has recently been selected as editor of the Gene 'Zine Magazine by the Oxford University Personalised Medicine Society. Additionally, Eeshani has also been appointed as OxWEST (Oxford Women in STEM) Ambassador for Kellogg College, University of Oxford. Congratulations Eeshani!!



New Champion Profile: Danielle

We welcome a new BSNM champion to the Society. Danielle is a PDRA working on the immunocompatibility of novel drug delivery systems at the University of Liverpool. Danielle's current role is working within the Intracellular drug delivery centre (IDDC) project, a multi-partner programme which aims to help develop novel drug delivery technologies and support promising RNA vaccines and therapeutics. Danielle's role in the project is to explore the immunocompatibility of these technologies and how we can develop models to better predict the compatibility of them in the future.

Danielle recently presented her work from her PhD on the immunocompatibility of Long-acting implantable drug releasing biodegradable implants for the treatment of HIV at the CLINAM conference in Basel, Switzerland. Her poster 'Assessment of cell phenotype and gene expression changes, following repeat exposure to the NRTIs FTC, 3TC and long acting polymer linear poly(FTC) – relevance to subcutaneous administration of long-acting therapeutics' won 1st prize in the category 'Nanotoxicology and Nanobiocharacterization'. The work in the poster highlights a cell line based repeat exposure assay for exploring the long-term immunocompatibility of drugs and preparations for long-acting therapies.



BSNM Champion Overview: Joel Crane

Joel has been studying for a PhD in chemistry which is focused on the use of hydrophobic iron oxide nanoparticles for cancer treatment as well as examining the use of naturally occurring biosilica structures known as diatoms to establish their potential for cancer treatment in combination with nanoparticles, primarily iron oxide nanoparticles. The hydrophobic nanoparticles that Joel works with have proven to be very versatile in their potential for chemical modification with variations of the nanoparticles being used in collaborative studies in Spain, Hong Kong and various universities around the UK. Much of this work is expected to be published in the foreseeable future.

Joel joined the team of champions in 2021 following a successful presentation of how diatoms can be used for drug, nanoparticle, and antibody loading/attachment due to their porosity and potential for surface chemical modification.



NanoMed Europe 2023: University of Liverpool

On the 19th-23rd June, the BSNM co-hosted the Nanomed Europe 2023 (#NME23) conference along with the [European Technology Platform on Nanomedicine \(ETPN\)](#) and the [University of Liverpool](#), in partnership with [ELRIG UK](#). Hosted in Liverpool, UK, NME23 was the 18th annual event of ETPN & the 5th ENM conference merged into a unique event, aiming to bring the whole European healthtech & nanomedicine communities together for the largest [Nanomedicine](#) event in [Europe](#).

Alongside our esteemed keynote speakers, Professor Molly Stevens (Imperial College London) and Professor Yvonne Perrie (University of Strathclyde), we were delighted to welcome Professor Maria J Alonso (University of Santiago de Compostela), Dr Lorena Dieguez (International Iberian Nanotechnology Laboratory), Professor Shareen Doak (Swansea University), Professor Alvaro Somoza Calatrava (IMDEA Nanociencia), Dr Sabine van Rijt (MERLN Institute for Technology-Inspired Regenerative Medicine) and Dr Alejandro J Paredes (Queen's University Belfast) as invited speakers. Our delegates spanned the scientific pathway, from early career researchers, academics and industry experts from across Europe, making for a dynamic and exciting scientific programme.



Over the course of the four-day event, conference participants had the opportunity to hear about a wide range of research topics, ranging from novel nanomaterials and nanoparticles for drug delivery to nanoparticle fabrication, nano-biological interactions, and innovative microbial applications for nanomaterials.



The best poster award, sponsored by [CSL Vifor](#), was jointly awarded to Miss [Chayanika Saha](#) from [Queen's University Belfast](#) for her pioneering work on a DNA vaccine for Ovarian cancer, and Professor Lars Herfindal from the [University of Bergen \(UiB\)](#), for his groundbreaking research on using zebrafish to study efficacy and toxicity of nanoencapsulated drugs.

The best selected talks award, sponsored by [Croda Pharma](#), was jointly awarded to Ms. [Mareike Werle](#) from [Queen Mary University of London](#) and Miss [Cintia Baptista Marques do Nascimento](#) from the [University of Geneva](#), for their work on the potential of polymer nanoparticles as a targeted drug delivery system for rheumatoid arthritis and on the complex interaction between nanoparticles and key proteins from the protein corona, respectively.

We, at BSNM would like to extend a big thank you to the award sponsors, Croda and CSL Vifor, along with the many companies who kindly sponsored and exhibited at the event, including Analytik, Inside Therapeutics, Izon, NanoFCM, Marks & Clerk, Postnova, and Provepharm.



BSNM Twitter

For the most up to date information, follow us on Twitter - [@BritSocNanoMed](#). Here you'll find updates from the society, news of exciting nanomedicine research, job opportunities and notices of upcoming conference and meetings.

Amazon Smile

If you're shopping on Amazon this Christmas why not help support BSNM by shopping through [@AmazonSmile](#). Amazon will make a donation to BSNM each time you order. Simply visit <https://smile.amazon.co.uk/ch/1151497-0>



Recent Publications and Vacancies Pages



Have a publication in the field of Nanomedicine? You can now Advertise your Nanomedicine Publications with us by simply filling in our [Online Form](#) or check out our current list of member publications [HERE](#). See below a recent publication from BSNM Champion Khadeejah Maeyouf.

" Transferrin-bearing, zein-based hybrid lipid nanoparticles for drug and gene delivery to prostate cancer cells", **Pharmaceutics**, **2023**, <https://www.mdpi.com/1999-4923/15/11/2643>



We are currently offering employers the chance to advertise their vacancies and studentships with us for free. Get in touch via britishsocietyfornanomedicine@gmail.com or simply fill in our quick and easy [online form](#) to upload your job advert to our website. We will promote any jobs to our membership through social media and occasionally through email.

Fellowship Applications

In January, the British Society of Nanomedicine is set to unveil its esteemed BSNM Fellowships and Associate Fellowships. The BSNM Fellowship, the highest and most prestigious honour, will be conferred upon members in acknowledgment of their outstanding achievements and significant impact in the field of nanomedicine. The BSNM Associate Fellowship will be granted to early-career members who have already showcased promising contributions to the field.

Stay tuned for further details coming soon!

BSNM Annual Meeting 2024

BIG NEWS! We are delighted to announce that our next Annual Meeting will be held at Cambridge University on the **9-10th September, 2024!**

Save the date and keep an eye out on social media and email for more details!



Annual Meeting, 9th – 10th September 2024
Cambridge University

From all of us at



we wish you a very happy
holiday season!

We look forward to seeing you in the New Year!