**WEBSITE TEMPLATE**

**1. RESEARCH THEME/s; PRP; GI:**

Nanomedicine and Biotherapeutics/Nano-delivery of macromolecules/Anticancer therapeutics

**2. PI DETAILS (Name, Pure Link, Twitter Handle & Photo)**

* [View Academic Profile](https://pure.qub.ac.uk/en/persons/wafa-al-jamal)
* <https://www.linkedin.com/in/wafa-al-jamal-bba23248/>
* Twitter: @aljamal\_wafa
* [w.al-jamal@qub.ac.uk](mailto:w.al-jamal@qub.ac.uk)
* [+44 (0)28 9097 2609](tel:+44%20(0)28%209097%202609)

**3. Research focus (80 words max)**

Dr Al-Jamal’s team focuses on engineering novel nanomaterials for biomedical applications. She has a multidisciplinary team working on developing innovative nanomedicines for combinatory therapy and theranostic applications.

To design and develop smart (stimuli-responsive) vectors to improve biologics, and conventional anticancer therapy, besides introducing new targeting approaches to enhance efficacy and to reduce the side effects of existing therapeutics.

Explore new methodologies, such as microfluidics, to fabricate and scale-up multifunctional nanoparticles (polymeric & lipid-based) for combinatory therapy, immunotherapy or theranostic applications.

**4. Research opportunities**

Open to PhD applications in the field of:

* Stimuli-responsive nanomedicines
* Biologics (RNA and proteins) delivery
* Exosomes and exosome mimetics
* Immunotherapy
* Tumour microenvironment
* Targeted delivery
* Theranostics
* Microfluidics

**5. Research students**

Name: Ms Raghed Qadadeh  
PhD title**:** RNA lipid nanoparticles targeting tumour microenvironment

Years of Study: 2022-2025  
Country: Jordan

Name: Ms Minao Zhang  
PhD title**:** Molecularly imprinted nanoparticles for cancer immunotherapy  
Years of Study: 2022-2025  
Country: China

Name: Ms Sophie Griffith  
PhD title**:** Designing dually responsive lipid nanoparticles for nucleic acid delivery  
Years of Study: 2021-2024  
Country: Northern Ireland

Name: Mr Hamoud Alotaibi   
PhD title: Engineering biodegradable nanoparticles for photothermal therapy  
Years of Study: 2021-2024  
Country: Saudi Arabia

Name: Ms Siyang Wu  
PhD title: Developing multifunctional nanocapsules for skin cancer   
Years of Study: 2020-2023  
Country: China

Name: Ms Ubah Abdi  
PhD title: Developing nanomedicines for pancreatic cancer   
Years of Study: 2019-2023  
Country: UK-Wales

Name: Mr Matt Barker  
PhD title: Engineering an ICD stimulated dendritic cell derived exosome-mimetic vaccine against cancer antigens  
Years of Study: 2018-2022  
Country: UK-England

**6. Alumni - where are they now?**

Name: Dr Calvin Cheung

PhD Title: Preparation of multifunctional nanoparticles using microfluidics

Year of Study: 2016-2020

Country: Hong Kong

Current position: Formulation Scientist, Nano and Advanced Materials Institute Limited, Hong Kong

Name: Dr Sara Pereira

PhD title: Developing a thermoresponsive targeted nanomedicine for advanced prostate cancer

Years of Study: 2014-2019 (part-time)  
Country: Portugal  
Current position: Senior Scientist, AstraZeneca, Cambridge, UK

Name: Dr Vera Silva  
PhD title: Development of Novel Cupric- Tirapazamine Liposomes for Hypoxia Selective Therapy  
Years of Study: 2014-2017  
Country: Portugal  
Current position: Oncology Scientist at Engitix Therapeutics, UK

**7. Public Outreach/ other achievements**

* [Prostate Cancer Photos competition 2019](https://prostatecanceruk.org/research/for-researchers/research-revealed-competition/research-revealed-2019)
* [Developing new nanomedicine for advanced prostate cancer](https://www.uea.ac.uk/about/media-room/press-release-archive/-/asset_publisher/a2jEGMiFHPhv/content/uea-project-to-investigate-use-of-nanomedicines-for-prostate-cancer)
* [GSK Emerging Scientist Award for nanomedicine research](https://www.uea.ac.uk/pharmacy/news-and-events/-/asset_publisher/w7O8j7rUDTtg/blog/dr-wafa-al-jamal-wins-of-gsk-emerging-scientist-awa-1?inheritRedirect=false)
* [Nanomedicine: promises and challenges for the future of public health](https://www.uea.ac.uk/pharmacy/news-and-events/-/asset_publisher/w7O8j7rUDTtg/blog/dr-wafa-al-jamal-receives-an-internationally-recognised-gro-brundtland-award-in-taipei-taiwan?inheritRedirect=false)

**8. Key words**

Nanomedicine, cancer, immunotherapy, theranostics, biologics, targeted drug delivery, gene delivery, microfluidics.