

# Seminar Speaker Series

in the framework of Interreg V-A project CAPSID

presents

## Dr. Qian Wu

University of Leeds, UK

### BRCT domain in DNA damage response

**20. 05. 2021 at 14:00**

Online virtual talk via Zoom

**Join this talk [here](#)**



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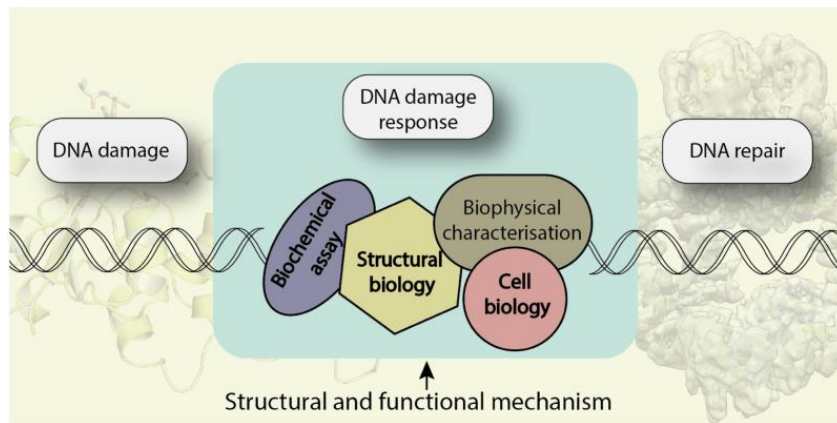
## Dr Qian Wu

University of Leeds, UK

Astbury Centre for Structural Molecular Biology

### AREAS OF EXPERTISE

DNA damage response; DNA repair; Structural biology; DNA damage



### SEMINAR ANNOTATION

DNA damage occurs due to exogenous and endogenous triggers, including ionizing radiations and by-product of normal cellular functions. Cells rely on the DNA damage response (DDR), a highly regulated cellular signalling network, to deal with these damages. Unrepaired damages can lead to genome instability and cell death. BRCT (named as BRCA1-C-Terminal) domain is a common domain found in many key DDR proteins such as BRCA1, BARD1, 5BP1 and DNA ligase IV. This talk will discuss my studies about the structure, motif-recognition and function of BRCT domain in DNA damage response network.

### REFERENCES

- [1] PAXX, a paralog of XRCC4 and XLF, interacts with Ku to promote DNA double-strand break repair T Ochi, AN Blackford, J Coates, S Jhujh, S Mehmood, N Tamura, J Travers, Q Wu, et al. **Science** 347 (6218), 185-188 (2015)
- [2] Guardians of the genome: DNA damage and repair. Q Wu. **Essays in Biochemistry** 64 (5), 683-685 (2020)
- [3] Structural mechanism of DNA-end synopsis in the non-homologous end joining pathway for repairing double-strand breaks: Bridge over troubled ends. Q Wu. **Biochemical Society Transactions** 47 (6), 1609-1619 (2019)

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