

# Professor Claude Chelala



## Research Interests

My research interests are in computational and integrative bioinformatics. Current research projects are focused on next-generation sequencing/array data analysis, databases and software development.

Specifically, my research interests are:

- Designing platforms for the integration/mining of complex -omics data sets. Current work covers pancreas and breast cancers. Both platforms are developed as built-in accompaniment to clinical tissue banks to maximise research output.
- Developing tools that offer a better understanding and interpretation of -omics data and the functional role of genetic variations in the sequenced genomes.
- Studying field cancerisation in order to generate signatures that identify morphologically normal but genetically altered tissue that could be applied for more tailored therapy, risk assessment and early detection.

## Major Funders

- Breast Cancer Campaign
- Cancer Research UK
- Barts and The London Charity
- NC3Rs

## Contact Details

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Barts  
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## Recent Publications

- Cutts RJ; Guerra A; Gadaleta E; Dayem Ullah AZ; **Chelala C.** BCCTBbp: The Breast Cancer Campaign Tissue Bank bioinformatics portal. (2014) *Nucleic Acids Research*. 2015;43(Database issue):D831-6. PMID: 25332396
- Haider S, Wang J, Nagano A, Desai A, Arumugam P, Dumartin L, Fitzgibbon J, Hagemann T, Marshall JF, Kocher HM, Crnogorac-Jurcevic T, Scarpa A, Lemoine NR, **Chelala C.** A multi-gene signature predicts outcome in patients with pancreatic ductal adenocarcinoma. (2014) *Genome Medicine*, 6(12): 105. 25587357
- Dayem Ullah, AZ, Cutts RJ, Ghetia M, Gadaleta E, Hahn S, Crnogorac-Jurcevic T, Lemoine NR, **Chelala C.** The Pancreatic Expression Database: Recent Extensions and Updates. (2014) *Nucleic Acids Research*, 1,42(1):D944-9. 24163255
- Dayem Ullah AZ, Lemoine NR, **Chelala C.** A practical guide for the functional annotation of genetic variations using SNPnexus. (2013) *Briefings in Bioinformatics*, 14(4):437-47. 23395730