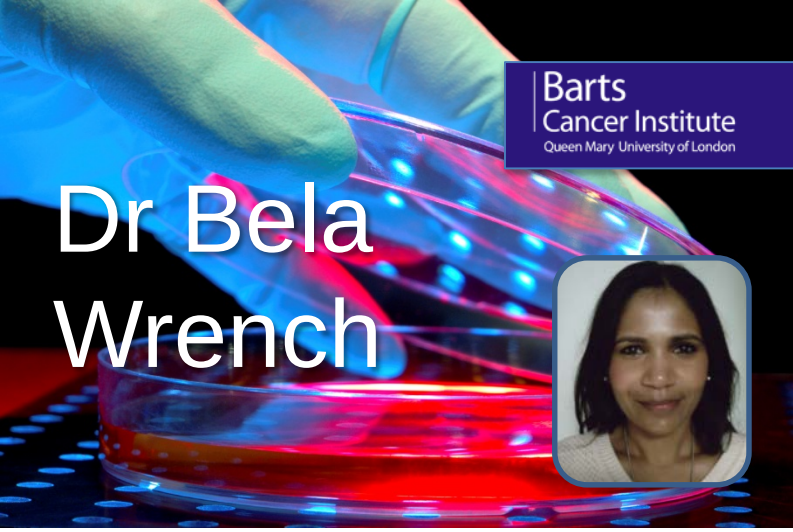


Research Interests

My disease area of interest is Adult Acute Lymphoblastic Leukaemia. My research focuses on leukaemia initiating cell biology, biomarker discovery and Clinical Trials.

My specific research areas are:

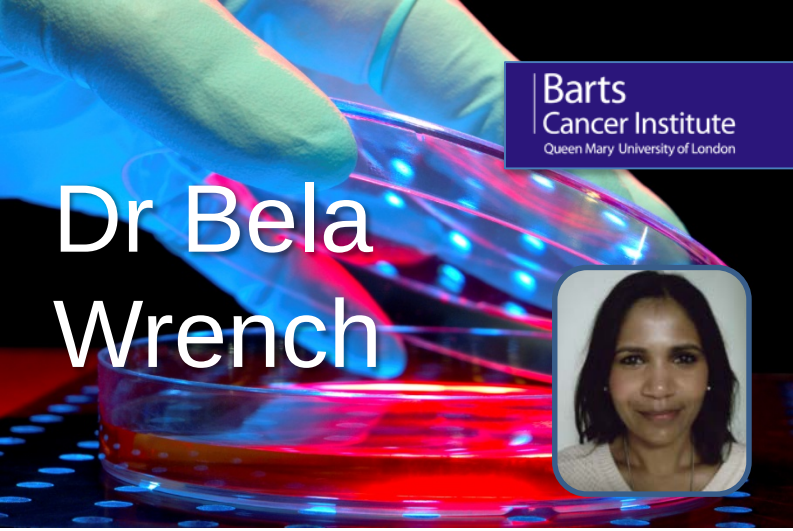
- Cellular and molecular mechanisms underlying leukaemia initiating cell biology
- The role of bone marrow microenvironment in leukaemogenesis and disease resistance
- Understanding the relationship between genetic and functional heterogeneity in leukaemia initiating cell populations
- Development of novel algorithms for molecular monitoring of minimal residual disease
- Investigating novel treatment approaches and disease agents in the context of NCRI led clinical trials.

Major Funders

- Cancer Research UK
- Leukaemia Lymphoma Research
- Gabrielle's Angels Foundation

Contact Details

Email: b.wrench@qmul.ac.uk



Recent Publications

- **B Patel** *et al.* Mouse xenograft modelling of Human Adult Acute Lymphoblastic Leukaemia provides mechanistic insights into adult LIC biology. *Blood*. 2014 Jul 3;124(1):96-105. PMID: 24825861

- AZ Castleton *et al.* Human mesenchymal stromal cells deliver systemic oncolytic measles virus to treat acute lymphoblastic leukemia in the presence of humoral immunity. *Blood*. 2014 Feb 27;123(9):1327-35. PMID: 24345754

- AK Fielding *et al.* Addition of Imatinib to a Standard Treatment Regimen Enhances Long-Term Outcomes in Philadelphia Positive Acute Lymphoblastic Leukaemia: Final Results of the UKALLXII/ECOG2993 Trial Imatinib Cohort. *Blood*. 2014 Feb 6;123(6):843-50. PMID: 24277073

- AV Moorman *et al.* IGH@ translocations, CRLF2 deregulation and micro-deletions in adolescents and adults with acute lymphoblastic leukemia. *J Clin Oncol*. 2012 Sep 1;30(25):3100-8. PMID: 22851563

- Y Zhang *et al.* Attenuated, oncolytic, but not wild-type measles virus infection has pleiotropic effects on human neutrophil function**.** *J Immunol*. 2012 Feb 1;188(3):1002-10. PMID: 22180616

- **B Patel** *et al.* Differential Cytopathology and Kinetics of Measles Oncolysis in Two Primary B-cell Malignancies Provides Mechanistic Insights*. Mol Ther*. 2011 Jun;19(6):1034-40. PMID: 21427708