

# Dr John Riches



## Research Interests

My major research interest is understanding the immunobiology of chronic lymphocytic leukaemia with the aim that this will underpin the development of the next generation of therapeutic agents for this disease.

My focus is using super-resolution microscopic techniques including dSTORM and TIRF to localise and track the position and movement of key molecules in the early stages of B-cell receptor signalling in chronic lymphocytic leukaemia. We hypothesise that this is very dysfunctional in CLL leading to tonic signalling that drives this disease. I have been undertaking this research with Professor Facundo Batista at the Francis Crick Institute.

I combine my laboratory and translational research programme with clinical practice with the Cancer Centre at Barts Health, with specific emphasis on the treatment of haematological malignancies including bone marrow transplantation.

## Major Funders

- Wellcome Trust
- Cancer Research UK

## Contact Details

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## Recent Publications

McClanahan F, **Riches JC**, Miller S, Day W, Kotsiou E, Neuberg D, Croce CM, Capasso M, Gribben JG. Mechanisms of PD-L1/PD-1 mediated CD8 T-cell defects in the context of aging-related immune defects in the E $\mu$ -TCL1 CLL mouse model. *Blood*. 2015 Jul 9;126(2):212-21. PMID: 25979947

**Riches JC**, O'Donovan CJ, Kingdon SJ, McClanahan F, Clear AJ, Neuberg DS, Werner L, Croce CM, Ramsay AG, Rassenti LZ, Kipps TJ, Gribben JG. Trisomy 12 Chronic Lymphocytic Leukemia cells exhibit up-regulation of integrin signaling that is modulated by NOTCH1 mutations. *Blood* 2014;123(26):4101-10. PMID: 24829201

**Riches JC**, Gribben JG. *Hanging tough: CMV-specific CD8<sup>+</sup> T cells in CLL* *Blood* 2014; 123(5):608-9. PMID: 24482498

**Riches JC**, Davies JK, McClanahan F, Iqbal S, Fatah R, Agrawal S, Ramsay AG, Gribben JG. T cells from CLL patients exhibit features of T-cell exhaustion but retain capacity for cytokine production *Blood* 2013; 121(9):1612-21. PMID: 23247726

**Riches, J.C.**, Gribben, J.G. *Advances in chimeric antigen receptor immunotherapy for CLL*. *Discov. Med.* 2013 Dec;16(90):295-302

Ene-Obong A, Clea, AJ, Watt J, Wang J, Fatah R, **Riches JC**, Marshall JF, Chin-Aleong J, Chelala C, Gribben JG, Ramsay AG, Kocher HM. Activated Pancreatic Stellate Cells Sequester CD8<sup>+</sup> T-Cells to Reduce Their Infiltration of the Juxtatumoral Compartment of Pancreatic Ductal Adenocarcinoma. *Gastroenterology* 2013 Nov;145(5): 1121-32 PMID: 23891972