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During my PhD (1991-95) I studied HIV-1 transcription at the Institute of Cancer Research with Mary Collins (ICR) and David Latchman (UCL). (1995-98) I was a Post Doc at the National Institute of Medical Research with Jonathan Stoye where we cloned Fv1, the first intracellularly transmitted HIV-1 variant.



C , **D** **C** **A** **C** **B** **C** **D** **B**
A . What is special about pandemic HIV-1? How lineage specific capsid variation determines DNA synthesis, innate immune detection and pandemic potential £2,518,982 1/3/19-28/2/2024

C **G** Characterisation and therapeutic manipulation of flaviviridae innate immune evasion £414571.44 1/5/2019-31/4/2022

G **A** **A** "Capsid" co-applicant with artist John Walter 09/2016-12/2018 £157,525.

E **C** **A** **G** "Characterisation and Manipulation of Primate Lentiviral Innate Immune Evasion Strategies" PI with co-applicant Prof David Selwood, Wolfson Institute of Biomedical Sciences, UCL, Feb 2014-Jan 2019 !2,499,643

H **I** **F** , "Defining Pathogen-sensing in Human Skin-derived Dendritic Cells" 2015-2019



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Fletcher AJ, Vaysburd M, Maslen S, Zeng J, Skehel JM, Towers GJ, James LC. 2018 Trivalent RING Assembly on Retroviral Capsids Activates TRIM5 Ubiquitination and Innate Immune Signaling. *Cell Host Microbe*. Dec 12;24(6):761-775.e6.

Cyclosporine H Overcomes Innate Immune Restrictions to Improve Lentiviral Transduction and Gene Editing In Human Hematopoietic Stem Cells. 2018 Petrillo C, Thorne LG, Unali G, Schioli G, Giordano AMS, Piras F, Cuccovillo I, Petit SJ, Ahsan F, Noursadeghi M, Clare S, Genovese P, Gentner B, Naldini L, Towers GJ, Kajaste-P 0 06 te9VkCell t ll. 6 23(6):820-832.e9.

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