**An efficient and novel technology for the extraction of parasite genomic DNA from whole blood or culture**

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### **Authors' contributions**

Experimentation was designed by DJC, CMM, SLC, JT, SW, JOH, SK and HMS and were undertaken by DJC, CMM, MF, KB, EP and VY. The manuscript was prepared by DJC, CMM, VY, SK and HMS. All authors had the opportunity to read and approve the manuscript.

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### **Competing interests**

### MF, JT, SPW and JO’H work for QuantuMDx, the company that developed DNA-XT. SK is a paid advisor and chairs the infectious diseases advisory board for QuantuMDx. SK and HMS are both shareholders in QuantuMDx. SK and HMS are in receipt of funds from QuantuMDx to develop diagnostic technologies and assays (that have supported DJC and CMM).

### **Ethics approval and consent to participate**

All experiments involving animals were conducted at the London School of Hygiene & Tropical Medicine under licence (PPL 70/8427) according to UK Home Office Regulations, Animals (Scientific Procedures) Act 1986 and European Directive 2010/63/EU.