**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.

### **Funding**

We gratefully acknowledge support for this work from the European Community’s Seventh Framework Programme (FP7/2007-2013), NANOMAL under grant agreement N° 304948 to SK, HMS, SW and JOH and the MRC Confidence in Concept, award number MC\_PC\_14111 (2014 – 2015), to SLC, HMS and SK. HMS is supported by the Wellcome Trust Institutional Strategic Support Fund (204809/Z/16/Z) awarded to St. George’s University of London. The funders had no role in the design of the study, data collection, analysis or preparation of the manuscript.

### **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.