#### **Application summary**

# Type of award Please select the type of award you are applying for

#### Application title

This should be the title of your proposed project.

#### Proposed duration of funding (months)

It is expected that awards will run for between 6 and 12 months, although we will consider proposals falling outside this range.

#### Proposed start date

You should allow at least two months between the submission of the proposal and the proposed start date.

Please note that payment may not be received for up to three months after submission of the application.

#### Name of administering organisation

Please enter the name of the organisation where you intend to hold the award. If your application is successful, this is the organisation that will be responsible for administering the award.

# Lead applicant's address at administering organisation Department/Division Organisation Street City/Town Postcode/Zipcode Country

Please enter the address where you will be working at the administering organisation. If your application is successful, this is the address that will be used in the award letter.

#### Research funding area

Please select the research funding area for your application

This will help us to route your application to the appropriate grants team when it arrives at the Trust. Please select 'Medical Humanities' if your proposal uses a predominantly humanities approach. Please select 'Social Science and Bioethics' if your proposal uses a predominantly social science approach, or involves a normative, empirical or conceptual ethical enquiry.

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Lead applicant details	
Full Name	
Department	
Division	
Organisation	
Address Line 1	
City/Town	
Postcode	
Country	
Telephone No.	
Email Address	
ORCID ID	
ORCID ID	

Lead applicants must add their ORCID iD. Find out more about ORCID on our website.

Career history (current/most recent first)				
From	То	Position	Organisation	
Please pro	vide details o	f your current position (if applic	able) and all previous posts held, listing mos	t recent first.

Education	n/trainin	g		
From	То	Qualification	Subject	Organisation

Please provide details of relevant education/training, listing the most recent first.

#### Source(s) of personal salary support

Your source of salary may have an impact on your eligibility to apply for Wellcome Trust funding. Please, therefore, state the source of funding of the salary of your post (for example, if it is funded through your organisation's block grant from a Higher Education Funding Council). If your salary is being funded from more than one source, please provide details of all funding sources, including their relative contributions. If there are any ties on intellectual property rights or publications arising from the research you undertake, please contact the Wellcome Trust for advice. Restrictions on intellectual property may affect your ability to apply to the Wellcome Trust.

If you are not currently in employment, this question should be answered 'not applicable'.		
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Clinical status Do you have a medical/veterinary degree?		
Please note that this includes dental and clinical psychology degrees.		
Please specify		
Are you clinically active?		
What is your specialty?		
Trinat is your opening.		
Please choose your specialty from the dropdown list – if it is not on the list, select 'Other' and specialty	cify.	
Please specify		
Career breaks Have you had any career breaks or periods of part-time work, for example parental or long-term sick leave?		
We encourage applications from researchers who have taken career breaks, and wish to ensure that any such breaks are duly taken into account when considering your track record. Please state when and for what period of time you took a break, or were working on a part-time basis. We are not seeking any information on the reasons for this break so please do not provide this here, including sharing any sensitive personal health information.		
Discos provide details		
Please provide details		
Do you wish to undertake this award part time?		
If you wish to undertake this award part time, you must be employed on a part-time basis. Please discuss your requirements.	contact the Trust to	
Career contributions What are your most important research-related contributions to date? These ma contributions to health policy or practice, or to technology or product discovery a (350 words max.)	•	

Research outputs
List up to 20 of your most significant research outputs, ensuring that at least five of these are from the last five years. For 10 of these outputs, provide a statement describing their significance and

your contribution (up to 50 words per output).

Research outputs may include (but are not limited to):

- Peer-reviewed publications and preprints
- Policy guidelines or briefings
- Datasets, software and research materials
- Inventions, patents and commercial activity

For original research publications indicate those arising from Wellcome-funded grants in **bold**, and provide the PubMed Central ID (PMCID) reference for each of these. Please refer to guidance notes.

Publications should be in chronological order with the most recent first. Please give citation in full, including title of paper and all authors\*. Citations to preprints should state "Preprint", the repository name and the articles persistent identifier (e.g DOI).

(\*All authors, unless more than 10, in which case please use 'et al', ensuring that your position as author remains clear.)

You should include here systematic reviews (e.g. Cochrane Reviews) and meta analyses, but exclude abstracts and literature reviews. We encourage the inclusion of articles published via open research publishing platforms, such as Wellcome Open Research, providing they have passed peer review.

Please tell us if any publications are:

- in press
- · accepted subject to revisions
- submitted or under review

If you have any updates during the application process, please let us know.

Preprints, i.e. complete manuscripts that have been submitted to a preprint repository or service (e.g. bioRxiv, PeerJ Preprints, arXiv, SocArXiv or PsyArXiv), can be included only if they have a permanent identifier such as a DOI or arXiv identifier.

The Wellcome Trust's open access policy requires all original peer-reviewed research papers, supported in whole or in part by Trust funding, to be made available through PubMed Central (PMC) and Europe PMC as soon as possible and in any event within six months of the journal publisher's official date of final publication.

The PubMed Central ID (PMCID) is the unique identifier assigned to every full text paper in PubMed Central (PMC) and Europe PMC.

Please note that:

We actively monitor compliance with our open access policy and successful applicants will be asked to provide a full list of all their Wellcome-funded research papers, and confirm compliance by providing the PMCID identifier for these, before the award letter can be issued.

For further guidance, please refer to the Trust's open access policy statement and authors' information.

Total number of peer-reviewed publications which you have authored/coauthored. Please exclude abstracts and literature reviews.

You should include here systematic reviews and meta analyses. We encourage the inclusion of articles published via open research publishing platforms, such as Wellcome Open Research, providing they have passed peer review.

#### **Collaborators**

Will you require any key collaborators for this proposal?

These are collaborators who will be making a **significant** contribution towards the proposed research, for example, assisting with specific elements of the research or providing access to resources. If the answer is 'Yes', you will be asked to provide information of these collaborators and to confirm their willingness to participate in the proposed research.

Please list any key collaborators\* (name and organisation) and provide a very brief outline of their role in the proposed research.

\*The collaborators named may be replaced with suitable alternatives should it be necessary or appropriate to do so.

I confirm that the collaborators named above have agreed to be involved, as described, in the proposed research and are willing for their details to be included as part of this application.

#### Related applications

Is this or a similar application for funding currently under consideration elsewhere?

The Wellcome Trust will neither consider nor process an application for support where the same or a related application is under consideration by another organisation. You are expected to inform us if you decide to submit this or a similar proposal to another funding body whilst the application to the Wellcome Trust is still under consideration.

Please provide name(s) of funding organisation(s) and decision date(s)

Is this a resubmission of an application submitted to the Wellcome Trust within the last 24 months?

Please see the relevant scheme page on the Wellcome Trust website for guidance before resubmitting an application.

#### **Project summary**

#### **Project summary**

Please provide a summary of your proposal, including key goals. (200 words max.)

This will be used as a short form 'abstract' and is necessary to enable the Trust to classify your proposal by subject area. This synopsis may be disclosed on the Wellcome Trust website and may be used for other publishing purposes. For all our awards, we publish the synopsis as part of the grant details made available externally.

The summary should be as complete as possible within the word limit, and should include key words which best describe the proposal to enable text searching.

#### Lay summary

Please provide a summary of your proposed research that people who may not be familiar with the subject can understand. We may edit your summary and then use it to describe your research on our website and elsewhere.

You don't need to oversimplify your research, but try to explain it as clearly as possible. You should write in the first person ("I" and "we") and structure your summary in this order:

- background to the research problem
- your approach
- expected impact of your work.

#### Example of a lay summary

Complete diagnostic autopsies (CDA) remain the gold standard for determining cause of death, but performing them in low- and middle-income countries (LMICs) is challenging. Facilities are inadequate, skilled staff scarce and public acceptance low. A minimally invasive autopsy (MIA) procedure involving organ-directed sampling has been proposed as an alternative. Oxford University Clinical Research Unit (OUCRU) is evaluating the use of MIA in Vietnam, but the method's ultimate effectiveness will depend on its public reception. The public view on post mortem examinations and consent for them are complex and under-researched. I will use interviews, focus groups and participant observations to assess the practice and perceptions of autopsy in Vietnam and Nepal. I will investigate socio-cultural factors surrounding these perceptions and explore ethical barriers preventing autopsy uptake. I will try to determine whether MIA may be more acceptable than traditional forms of post mortem. I will then work alongside clinicians to develop more culturally sensitive and appropriate methods of obtaining consent to autopsy.

#### **Details of project**

Seed Award applicants only:

#### Please detail, where appropriate, the following information (1,000 words maximum):

What do you want to do with this grant?

- a) What is your main focus? (What topic, theme or problem is the grant intended to address?)
- b) What activities will you undertake? (This could include research leave, networking events, seminars, planning sessions, pilot studies etc.)
- c) What will be the outputs of the activities? (This could include publications, pilot data, proofs of concept, archival scoping, a robust network of collaborators etc.)

Why is it important?

- a) What potential impact in the field do your proposed activities have?
- b) What will the outputs help you to achieve in the future? (Will it enable you to apply for more funding? Will it establish a scholarly network to support research?)

How will you do it?

(1000 words max.)

- a) Who will lead the project?
- b) Who will be the collaborators?
- c) What methods or approaches will be used? How will the outputs emerge from these?

Please note, this is an example answer structure. It is intended as a guide and is by no means prescriptive.

No more than **1,000** words should be used to describe the proposal. You may provide your answer to this question in text entry format or as a PDF attachment. If you are uploading your proposal, the uploaded document must be in 11 point Arial font and portrait format.

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#### Please detail, where appropriate, the following information (1,000 words maximum):

- 1. What are the primary aims of the grant?
- 2. What activities do you propose to undertake with the grant? (Activities may include, but are not limited to: conferences, seminars, networking and engagement events with stakeholders, exploratory research, pilot studies, and proof of concept work).
- 3. How do the activities come together to form a programme? (How do the activities link together in pursuit of your aims?)
- 4. What will be the impact of the programme of activities on your research? (For example: what networks have been formed or strengthened? What new research visions will have been developed?)

### Please note, this is an example answer structure. It is intended as a guide and is by no means prescriptive.

No more than **1,000** words should be used to describe the proposal. You may provide your answer to this question in text entry format or as a PDF attachment. If you are uploading your proposal, the uploaded document must be in 11 point Arial font and portrait format.

If you are applying for funding for a research project, you may wish to include the following information:

- Research focus and/or question(s) to be addressed
- Details of the activities you will undertake
- Aims of the project and projected outcomes of the activities (this could include publications, pilot data, archival scoping, a robust network of collaborators, etc)
- Details on what the outputs/outcomes will help you to achieve in the future
- Details of the potential impact of your project for the field and/or policy and practice
- Plan of research
- Methodology to be used and how the outputs/outcomes will emerge from these
- Sources to be consulted (if appropriate)
- The nature of any data that would come out of this award
- Your plans for data management, curation and storage
- Your policy for sharing data with others, including the management and prioritisation of access to data
- Your strategy for current and future communication with user communities
- Ethical considerations

Researchers are expected to demonstrate good research practice to maximise the availability of research data with as few restrictions as possible (see the Wellcome Trust Policy on Data Management and Sharing).

If you are applying for funding for a **meeting**, please include the following information:

- Objectives of the meeting
- · Location of the meeting
- Meeting dates
- Aims of the meeting and projected outcomes/outputs of the activities (this could include publications, a robust network of collaborators, etc)
- Details of the potential impact of your meeting for the field and/or policy and practice
- The need for gathering the meeting
- Have there been any recent meetings on the same subject? If so, were they funded by the Wellcome Trust?
- Details of the chairperson(s) (if appropriate)
- Members of the organising committee
- Expected number of participants
- Method of announcement or invitation
- Will abstracts be pre-circulated?
- Details on what the outputs/outcomes will help you to achieve in the future

If you are applying for **other small grant** funding, please describe your activity in further detail. Include a detailed description of how the grant will benefit your activity.

(1000 words max.)		

You may submit up to two A4 pages of additional information (such as graphs, figures, tables and essential unpublished data).

The additional information (such as graphs, figures, tables and essential unpublished data) provided in support of the research proposal may be embedded in the text of your file upload or attached here as a separate file. If you choose to embed this information, any text present (such as legends, labels or captions) can be excluded from the word count.

Please note that this form asks for all the information we require to consider your application. You should not provide additional information (e.g. letters of support) unless specifically requested in the form.

#### Bibliographical references

You should give the citation in full, including title of paper and all authors, in alphabetical order, and include any primary sources to be consulted.

You may provide up to the equivalent of two A4 pages of primary and/or secondary literature relevant to the research project. Please ensure that all references included are pertinent to your research proposal and are cited in full, including all authors, the full title of each publication, journal title, year, volume and pages. References with more than 10 authors may be shortened to et al, but please ensure that your position as author (if applicable) remains clear.

You may refer to papers "in press"; copies of these papers should be submitted. Manuscripts that are "in preparation" or "submitted for publication" must not be included in the reference list, but key data from these papers may be included as "additional information".

#### Location of activity

#### Will the funded activity take place at more than one location?

It is important that we are able to track the countries and organisations where research activity is taking place and the approximate proportion of the funds that will be spent at each location.

You should list any locations where you will be conducting research or redirecting funds outside of the administering organisation. This includes, but is not limited to, anywhere in receipt of indirect funding, fieldwork sites, and time spent working in another institution/laboratory. This does not include conference attendance.

Salary costs, if requested, should be attributed to the employing organisation.

For each location, select the country and, where applicable, state the organisation (please include the administering organisation). Indicate the approximate percentage of the total funds that will be spent in each location, entering zero for locations where no significant funds will be spent. Salary costs, if requested, should be attributed to the employing organisation.

Country	Organisation	Percentage of funds

#### Costs requested and justification

Please select the currency in which you wish to apply.

It is expected that costs within the application will be submitted in the currency which, in the view of the applicant(s), best enables the activity to be undertaken. In the majority of cases, the currency specified is likely to be the local currency. Where this is not the case, please explain the reasons for selecting the chosen currency.

Please refer to the Wellcome Trust's website for further information regarding selecting a currency.

If at any point, the Wellcome Trust is unable to award in the currency requested, discussions will be held with the administering organisation to decide whether an alternative currency should be used. If you have any concerns that the currency you would like to request may not be readily available, please contact the Wellcome Trust by e-mailing: grantpayments@wellcome.ac.uk.

Is the selected currency your local currency?	
What is your local currency?	
Please state clearly the reasons for requesting costs in the selected currency and rate used (100 words max.)	d the exchange

#### Justification for resources requested

Please provide a brief justification for the resources requested. Wherever possible please also break down costs to show how totals have been calculated. (500 words max.)

#### Full economic costing

Is your organisation based in the UK?	
Is your organisation calculating the full economic cost of this proposal?	
What is the total full economic cost (£)?	
Please provide the <b>total</b> full economic cost of your research proposal. Costs should be inflated at percentage rate currently used by the organisation.	the recognised

## Research involving human participants, human biological material and identifiable data

Does your project involve human participants, human biological material, or identifiable/potentially identifiable data?

The following notes relating to 'Research involving human participants, human biological material and identifiable data' are intended to provide guidance and advice in completing the form, rather than a comprehensive review of the legal and regulatory environment in which the application is made.

The World Health Organization defines research with human subjects as "any social science, biomedical, behavioural, or epidemiological activity that entails systematic collection or analysis of data with the intent to generate new knowledge, in which human beings i) are exposed to manipulation, intervention, observation, or other interaction with investigators either directly or through alteration of their environment, or ii) become individually identifiable through investigator's collection, preparation, or use of biological material or medical or other records."

The Wellcome Trust policy position on research involving human participants can be found on the Wellcome Trust website (www.wellcome.ac.uk/wellcome-trust-policy-position-research-involving-human-participants)

Ethical approval (usually from the appropriate National Health Service (NHS) research ethics committees) is required for all Wellcome Trust funded research involving human participants, biological samples or personal data. Personal data, in the context of the 1998 Data Protection Act (Section 3.2, and Annex 3), comprise information about living people who can be identified from the data, or from combinations of the data and other information which the person in control of the data has, or is likely to have in future. Any use of personal data or biological samples, relating to living or dead persons, should conform to MRC guidelines available at: http://www.mrc.ac.uk/documents/pdf/personal-information-in-medical-research/ and http://www.insight.mrc.ac.uk/2015/02/12/getting-the-best-out-of-biological-samples/.

Approval from other regulatory bodies such as the Human Fertilisation and Embryology Authority (HFEA) or the Gene Therapy Advisory Committee in the UK should also be sought where necessary, e.g. research involving human embryos may require a licence from the HFEA (please refer to www.hfea.gov.uk for more information). If your proposal involves research on gene therapy which requires regulatory approval, approval should be sought from your Local Research Ethics Committee, the University's Genetic Manipulation Committee, the Gene Therapy Advisory Committee and the Medicines and Healthcare products Regulatory Agency (MHRA).

The organisation must ensure that ethical approval is in place at all relevant times during the project. For research carried out at multiple sites, ethics committee approval must cover each site.

Where the research, or part of the research, is to be performed outside the UK, independent ethics review must be obtained. For research involving people living in low and middle income countries, see the Wellcome Trust's website (www.wellcome.ac.uk/funding/managing-grant/guidance-notes-research-involving-people-low-and-middle-income-countries).

Please confirm that you have read the Trust's guidance on the feedback of health-related findings in research and that you are in the process of considering your approach to this.

The Wellcome Trust's guidelines on the feedback of health-related findings in research can be found on the Trust's website.

Please state by whom and when the ethics of the project has been, or will be, reviewed and specify any other regulatory approvals that have been obtained, or will be sought.

We reserve the right to see relevant approval documents at any point during the lifetime of the grant, in accordance with our policy position on research involving human participants.

The following notes relating to 'Research involving human participants, human biological material and identifiable data' are intended to provide guidance and advice in completing the form, rather than a comprehensive review of the legal and regulatory environment in which the application is made.

The World Health Organization defines research with human subjects as "any social science, biomedical, behavioural, or epidemiological activity that entails systematic collection or analysis of data with the intent to generate new knowledge, in which human beings i) are exposed to manipulation, intervention, observation, or other interaction with investigators either directly or through alteration of their environment, or ii) become individually identifiable through investigator's collection, preparation, or use of biological material or medical or other records."

The Wellcome Trust policy position on research involving human participants can be found on the Wellcome Trust website (www.wellcome.ac.uk/wellcome-trust-policy-position-research-involving-human-participants)

Ethical approval (usually from the appropriate National Health Service (NHS) research ethics committees) is required for all Wellcome Trust funded research involving human participants, biological samples or personal data. Personal data, in the context of the 1998 Data Protection Act (Section 3.2, and Annex 3), comprise information about living people who

can be identified from the data, or from combinations of the data and other information which the person in control of the data has, or is likely to have in future. Any use of personal data or biological samples, relating to living or dead persons, should conform to MRC guidelines available at: http://www.mrc.ac.uk/documents/pdf/personal-information-in-medical-research/ and http://www.insight.mrc.ac.uk/2015/02/12/getting-the-best-out-of-biological-samples/.

Approval from other regulatory bodies such as the Human Fertilisation and Embryology Authority (HFEA) or the Gene Therapy Advisory Committee in the UK should also be sought where necessary, e.g. research involving human embryos may require a licence from the HFEA (please refer to www.hfea.gov.uk for more information). If your proposal involves research on gene therapy which requires regulatory approval, approval should be sought from your Local Research Ethics Committee, the University's Genetic Manipulation Committee, the Gene Therapy Advisory Committee and the Medicines and Healthcare products Regulatory Agency (MHRA).

The organisation must ensure that ethical approval is in place at all relevant times during the project. For research carried out at multiple sites, ethics committee approval must cover each site.

Where the research, or part of the research, is to be performed outside the UK, independent ethics review must be obtained. For research involving people living in low and middle income countries, see the Wellcome Trust's website (www.wellcome.ac.uk/funding/managing-grant/guidance-notes-research-involving-people-low-and-middle-income-countries).

In the course of your project, do you propose to use facilities within the National Health Service (NHS) or to involve patients being cared for by the NHS?

By agreeing to fund work which requires NHS support, the Wellcome Trust is agreeing to abide by the Statement of Partnership on Non-commercial R&D in the NHS in England (and the corresponding statements in Northern Ireland, Scotland, and Wales). Researchers must therefore meet the obligations of the Partnership and may not carry out any research until the NHS has given its consent.

The Research Governance Framework for Health & Social Care, published by the Department of Health in England can be downloaded from the Department of Health website http://www.dh.gov.uk/health/category/research. Please note that the Wellcome Trust cannot act as sponsor.

Is a formal sponsor required for the project, for example under the Medicines for Human Use (Clinical Trials) Regulations or the Research Governance Framework for Health and Social Care and equivalent guidance?

Please indicate which organisation(s) has/have agreed to fulfil this role. Please note that the Wellcome Trust cannot act as sponsor.

#### Risks of research misuse

Please confirm that you have considered whether your proposed research could generate outcomes that could be misused for harmful purposes.

In preparing research proposals, Wellcome wishes to encourage applicants and their host organisations to consider carefully any risks that the potential outcomes (information, products or technologies) of the research could be misused for harmful purposes. Such purposes would include actions that pose a significant threat to humans, animals, plants or the environment - including terrorist misuse.

Examples of possible research areas that are associated with dual-use risks of this type, include (but are not restricted to) research that aims to:

- demonstrate how to render a vaccine ineffective
- confer resistance to a therapeutically useful antibiotic or antiviral agent
- enhance the virulence of a pathogen or renders a non-pathogen virulent
- increase the transmissibility or alter the host range of a pathogen

- enable the evasion of diagnostic and detection methods
- enable the weaponisation of a biological agent or toxin
- generate or reconstitute an eradicated or extinct agent or toxin

Where there are judged to be **tangible** (i.e. real and non-hypothetical) risks that the proposed research **will itself** generate outcomes that could be misused to cause harm, researchers and organisations should take appropriate steps to monitor the research as it proceeds and minimise these risks. Risk mitigation could include establishing a process to review dual use risks on an on-going basis through the project and to gain independent expert advice as appropriate. Researchers should also ensure that all members of their team are aware of these risks in progressing their research, and receive appropriate education and training on these issues.

The identification of tangible risks in a research project should be clearly balanced against the benefits and value that is to be gained for health, science and society. We recognise that most research could conceivably generate results that might hypothetically be misused at some point in the future, and we are not asking applicants to appraise these kinds of remote and hypothetical risks.

Applicants should refer to the joint BBSRC, MRC and Wellcome policy and position statement on managing risks of research misuse (https://wellcome.ac.uk/funding/managing-grant/managing-risks-research-misuse), and our guidelines on good research practice (https://wellcome.ac.uk/funding/managing-grant/policy-good-research-practice).

Have you identified any tangible risks of this type?
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Please briefly describe these risks and the steps that you and your organisation will take to manage them

(250 words max.)

#### Freedom to operate/conflicts of interest

Describe any freedom to operate issues or potential conflicts of interest that have been identified or that might arise and how these will be or have been addressed.

In particular, please consider the following:

- Do any of the individuals involved in the project hold any consultancies or equities in, or directorships of, companies or other organisations that might have an interest in the results of the proposed research?
- Will the proposed research use technology, materials or other inventions that are subject to any patents or other form of intellectual property protection?
- Will any element of the research be subject to agreements with commercial, academic or other organisations, including arrangements with collaborators named in the grant application, that might lead to intellectual property issues or restrictions?

(350 words max.)

Please describe any freedom to operate issues or potential conflicts of interest that may affect your ability to carry out the proposed research and/or to comply with the Trust's grant conditions.

Where the proposed research, in whole or in part, is subject to agreements with commercial, academic or other organisations, e.g. Materials Transfer Agreements, the Wellcome Trust will expect a written assurance from the administering organisation that the terms of any such agreement do not conflict with the Trust's grant conditions, particularly in relation to the publication of research and the granting of research rights.

Please refer to the Wellcome Trust's website for our policy on the relationship between Trust-funded researchers and commercial entities: www.wellcome.ac.uk/funding/managing-grant/policy-relationships-between-trust-funded-researchers-and-commercial-organisations.

Details of our policy on intellectual property can be found in our Grant Conditions www.wellcome.ac.uk/funding/managing-grant/grant-conditions.

Applicants should disclose all relevant information pertinent to their grant proposal, including proprietary information where appropriate, in order to provide the most comprehensive picture of their proposed research.

If no issues have been identified, please enter N/A.

#### **Wellcome Trust supported facilities**

Will the project be based in one of the following Wellcome Trust supported facilities:

- the Wellcome Trust Sanger Institute
- a Wellcome Trust Centre
- an Africa and Asia Programme
- the Francis Crick Institute?

We are interested to find out about Trust-funded projects based in these facilities and wish to collect this data for information purposes.

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Please specify	