APPLICATION FOR NORTH WEST CANCER RESEARCH

CANCER DISCOVERY PROJECT GRANT

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| 1. PROJECT TITLE
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| 1. PROPOSED START DATE AND DURATION
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| Start Date  |  |
| Duration |  |

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| 1. APPLICANT(S)

 (Please copy & paste the table for additional applicants) |
| Full Name  |  |
| Funding Source (i.e. HEFCE, external) |  |
| Role (e.g. PI; Co-I) |  |
| Position & Title  |  |
| Department  |  |
| Organisation |  |
| Address |  |
| Telephone  |  |
| E-mail Address |  |

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| --- | --- |
| Full Name  |  |
| Funding Source (i.e. HEFCE, external) |  |
| Role (e.g. PI; Co-I) |  |
| Position & Title  |  |
| Department  |  |
| Organisation |  |
| Address |  |
| Telephone  |  |
| E-mail Address |  |

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| --- | --- |
| Full Name  |  |
| Funding Source (i.e. HEFCE, external) |  |
| Role (e.g. PI; Co-I) |  |
| Position & Title  |  |
| Department  |  |
| Organisation |  |
| Address |  |
| Telephone  |  |
| E-mail Address |  |

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| 1. SCIENTIFIC SUMMARY OF PROPOSED RESEARCH (max 250 words)

Within this, please consider the relevance of your work to the local population of the North West and North Wales. |
| (max 250 words) |

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| 1. LAY SUMMARY OF PROPOSED RESEARCH (max 250 words)
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| (max 250 words) |

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| 1. COMMUNICATIONS PLAN (max 250 words)

Please outline plans for engagement, communication and dissemination of this research with the scientific community and with the public. |
| (max 250 words) |

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| 1. IMPACT SUMMARY (max 250 words)

Please outline who will benefit from this work and in what way they will benefit. Please consider how your project would: generate new ideas, translate research in to new ideas and services, create evidence that could influence policy and stakeholders, develop the human capacity to do research, stimulate further research via new funding partnerships. |
| (max 250 words) |

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| 1. PREVIOUS SUBMISSION

Has this application been submitted elsewhere over the past year? If so, to which funding body and with what result:  |
| (max 250 words) |

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| 1. HUMAN SUBJECTS

Does this project involve human subjects and/or patient samples or data? **(YES or NO)****If YES, please complete APPENDIX A, at the bottom of this document.**Please note that the proposal could be triaged from the review process, should sufficient details and justifications not be provided.  |
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| 1. USE OF ANIMALS

Does this project involve the use of animals? **(YES or NO)****If YES, please complete APPENDIX A, at the bottom of this document.**Please note that the proposal could be triaged from the review process, should sufficient details and justifications not be provided.  |
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| 1. PROPOSED INVESTIGATION

This section in total should not exceed 2,000 words |

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| 1. Title of Project
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| 1. Work which has led up to the project
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| 1. Project Objectives
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| 1. Detailed Plan of Investigation
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| 1. Project Risks and Contingencies
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| 1. INDEPENDENT REFEREES

Please include suggestions for appropriate independent referees. Please DO NOT suggest referees with whom you have held grants or published within the last FIVE YEARS, or with whom you have other potential conflicts of interest.  |

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| REFEREE 1 |
| Name  |  |
| Address |  |
| E-mail Address  |  |
| Area of Expertise |  |
| Previous contact(s) with this individual (if any) |  |

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| REFEREE 2 |
| Name  |  |
| Address |  |
| E-mail Address  |  |
| Area of Expertise |  |
| Previous contact(s) with this individual (if any) |  |

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| REFEREE 3 |
| Name  |  |
| Address |  |
| E-mail Address  |  |
| Area of Expertise |  |
| Previous contact(s) with this individual (if any) |  |

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| 1. SUMMARY OF COSTS

Summary of funds required for staff, equipment and consumables (include VAT, only where appropriate). Please note, the student stipend is set at £19,000 per annum. Detailed descriptions and justifications for support should be given in Section 14.  |

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|  | YEAR 1 | YEAR 2 | YEAR 3 |
| SALARIES / STIPEND(as appropriate)Staff grades: |  |  |  |
| PGR REGISTRATION FEES (if appropriate) |  |  |  |
| EQUIPMENT |  |  |  |
| CONSUMABLES |  |  |  |
| TOTAL ANIMAL COSTS(detailed in Appendix A) |  |  |  |
| TOTAL  |  |  |  |
| TOTAL AWARD |  |  |  |

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| 1. JUSTIFICATION FOR SUPPORT REQUESTED

(salaries, equipment and consumables)  |
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| 1. SIGNATURES
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| APPLICANT(S)Please extend the table for additional applicants. |
| Name  | Signature  | Date |
|  |  | DD/MM/YYYY |
| Name  | Signature  | Date |
|  |  | DD/MM/YYYY |

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| AUTHORITY: HEAD OF DEPARTMENT |
| Name  | Signature  | Date |
|  |  | DD/MM/YYYY |

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| AUTHORITY: ADMINISTRATIVE |
| Name  | Signature  | Date |
|  |  | DD/MM/YYYY |

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| 1. PHD SUPERVISION

If the application includes request for support of a PhD studentship, please describe the track record of the Principal Investigator(s) in PhD supervision including name(s) of student(s), starting and completion date(s) and whether primary or secondary supervisor. Also provide details of the environment in which the student will be placed (availability of equipment, number of other Postgraduate Students and Post-Doctoral Researchers, provision for day-to-day support and supervision.  |
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| 1. PUBLISHED PAPERS

If you have been previously funded by NWCR as a Principle Investigator, please include a list below of published papers that have resulted in whole or in part from NWCR support. Please ensure that NWCR is acknowledged on all publications that have been supported by the Charity.  |
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| 1. LETTERS OF SUPPORT

To be included where necessary, please paste any letters of support below.  |
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| 1. PLEASE ATTACH BELOW BRIEF (2 PAGE) CVS OF ALL INVESTIGATORS, INCLUDING RELEVANT PUBLICATIONS AND GRANT INCOME
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Upon completion, please export your application as a PDF and upload as a SINGLE DOCUMENT to <https://nwcr.org/research-funding/cancer-discovery/>

If you do not require Appendix A at this point, please remove the below section and export as PDF.

APPLICATION FOR NORTH WEST CANCER RESEARCH

PROJECT GRANT – APPENDIX A

(following from questions 9 & 10 above)

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| 1. USE OF ANIMALS

The provision of insufficient experimental details and/or a lack of justification for animal usage and numbers on the basis of defined endpoints, expected ‘response’ outcomes and Power Calculations could trigger the rejection of the proposal without review.  |
| 1. Does your proposal involve the use of animals?
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| 1. Does your proposal involve the use of animal tissue?
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| 1. Does your proposal include procedures to be carried out on animals in the UK, which require a Home Office licence under the Animals (Scientific Procedures) Act 1986?
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| 1. Does the organisation, in which the animal work is to be carried out, hold a certificate of designation under the Animals (Scientific Procedures) Act 1986?
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| 1. Does your proposal involve the use of animals or animal tissue outside the UK? If so, please provide more details relating to the procedures that are to be undertaken and the regulatory approvals for these that have been obtained (and from which organisation).
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| 1. If your project does involve the use of animals, provide a description of the procedures that are to be used and define the severity of these procedures? Please indicate whether these procedures have been categorised as being MILD, MODERATE or SUBSTANTIAL. Outline the proposed actions and approaches for refining the techniques.

Also provide details (either here or in the main body of text) on the regularity of monitoring and whether monitoring requires anaesthesia (i.e. as would be required for *in vivo* imagine of tumours). Max 250 words  |
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| 1. Why is animal use necessary? Are there any other possible approaches? What other approaches have been considered and why are these not suitable? Max 250 words
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| 1. What species is to be used and why is this species the most appropriate? Max 250 words
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| 1. Does the proposed study involve the use of genetically modified animals? If so, then what are the mutations and will these be harmful mutations?
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| 1. Is the appropriate Project License in place?
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| 1. SUMMARY OF ANIMAL COSTS

The table below should be duplicated for each different species.  |
| Animal species to be used (and strain, if relevant) |  |
| Source of supply  |  |
| PURCHASE |
| Purchase price per animal |  |
| Total number of animals to be purchased  |  |
| TOTAL PURCHASE COST  |  |
| MAINTENANCE |
| Total number of animals to be maintained |  |
| Total number of weeks’ maintenance required |  |
| Cost per animal per week |  |
| TOTAL MAINTENANCE COST  |  |
| EXPERIMENTAL PROCEDURES |
| Types of procedure(s) |  |
| Cost per procedure(s) |  |
| TOTAL PROCEDURES COST  |  |

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| TOTAL PURCHASE COST  |  |
| TOTAL MAINTENANCE COST  |  |
| TOTAL PROCEDURES COST  |  |
| TOTAL  |  |

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| 1. JUSTIFICATION FOR SUPPORT REQUESTED

Please justify the use of animals (numbers and species). Justify animal usage and numbers on the basis of defined endpoints, expected ‘response’ outcomes and Power Calculations. Also describe any plans to reduce bias (e.g. blinding, randomisation). Max 500 words.  |
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| 1. RESEARCH INVOLVING HUMAN PARTICIPANTS, BIOLOGICAL SAMPLES AND PERSONAL DATA RELATING TO LIVING OR DEAD PERSONS
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| 1. Does your project involve human participants? If yes, please describe what ethical approval is needed and why.
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| 1. Will personal data be used?
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| 1. Will your project involve use of human biological samples?
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| 1. Please state:
2. By whom and when the ethics of the project has been reviewed and specify any other regulatory approvals that have been obtained.
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|  |
| And/or1. By whom and when the ethics of the project will be reviewed and specify any other regulatory approvals that will be sought.
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| 1. In the course of your project:
2. Do you propose to use facilities within the National Health Service (NHS)?
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| 1. Does your research involve patients being cared for by the NHS?
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| 1. If the answer is yes to (i) or (ii) above, please indicate which organisation has agreed to be sponsor for the project under the Research Governance Framework for Health and Social Care, published by the Department of Health in England or the corresponding departments in Northern Ireland, Scotland or Wales. Please note that NWCR cannot act as sponsor.
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| 1. STUDY DESIGN FOR HUMAN SUBJECTS RESEARCH AND/OR RESEARCH USING HUMAN SAMPLES OR DATA
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| 1. If recruiting new study subjects, what are the proposed participating centres and the roles of the clinical trial team members? Provide details of any activity to be undertaken by a third party and comment on the plans to ensure the presence of a formal contract. Max 200 words.
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| 1. Please describe the study design including any planned interventions (experimental and control). Max 300 words.
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| 1. Describe the inclusion/exclusion criteria or definitions of study groups, as appropriate. What are the proposed methods for avoiding bias? If applicable, what are the proposed arrangements for allocating participants to the trial groups? Max 200 words.
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| 1. What are the primary and secondary outcome measures (clinical trial), or phenotypes (sample or data analysis), and how will these be assessed? If applicable, describe the proposed frequency and duration of follow up and any anticipated problems with non-compliance and/or loss to follow up. Max 200 words.
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| 1. Detail and justify the sample size and proposed statistical analysis including any interim analyses and/or subgroup analyses. If recruiting new study subjects, outline and justify the strategy for recruitment. Max 200 words.
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| 1. How have patients, patient advocacy groups or communities been involved in developing the clinical aspects of this proposal? Max 300 words.
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| 1. Describe anticipated regulatory and governance approvals, and the proposed arrangements for trial management. What is the proposed membership of the Trial Steering Committee and the Data Monitoring and Ethics Committees? Max 200 words.
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