**中央研究院112年度「因應流行病研究計畫」計畫書**

**2023 Academia Sinica Infectious Diseases Research (IDR) Project Proposal**

|  |  |
| --- | --- |
| 計畫類別Project Category | 🞏 1.個人型 Individual Project 🞏 2.單一整合型 Integrated Team Project🞏 3.多分支計畫整合型Multi-Components Team Project |
| 計畫名稱ProjectTitle | 中文： |
| English: |
| 計畫(總)主持人Project PI orProgram Director | 中文： | 職稱Position |  |
| English: | 申請單位Affiliation |  |
| 共同(分支)計畫主持人Project Co-PI(s) orComponentProject PI(s) | 中文 / English:1. | 職稱/單位Position/Affiliation |
| 2. |  |
| 3. |  |
| 4. |  |
| 計畫經費單位：新臺幣千元Total Budget Unit: thousand NTD | 第一年 Year 1: *e.g.* 20,000 千元 | 第二年 Year 2: |
| 第三年 Year 3: | 第四年 Year 4:  |
| 第五年Year 5 (可預估，視需求與表現於第4年再另核定):  |
| 計畫聯絡人ProjectContact Person |  | Email:  |
| Tel:  |
| 計畫關鍵詞Keywords | 中文：English: |
| 本計畫涉及This project involves: | 🞎 生物材料及基因重組相關實驗biological and/or genetically engineered materials  | 🞎 動物實驗 animal experiments | 🞎 以人為研究對象者human subjects |

**中央研究院112年度「因應流行病研究計畫」計畫書**

**2023 Academia Sinica Infectious Diseases Research (IDR) Project Proposal**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

計畫名稱（中文）：

Project Title (English):

計畫(總)主持人Project PI or Program Director:

申請單位Affiliation:

計畫類別 Project Category:

子計畫名稱與主持人Include Titles and PIs of Component Projects, if applicable.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1. Executive Summary and Chinese Abstract**

Provide an Executive Summary for the proposed Infectious Disease Research Project in **one** page or less, highlighting how the work may **answer to the specified mission of rapid deployment solutions to emerging infectious diseases**, as outlined in the funding opportunity announcement and its deliverables.

In addition, provide a **Chinese Abstract** in less than 500 words.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.    Summary of Previous Research Accomplishments** (Project PI only).

Summarize and highlight your previous research accomplishments in the **last five years**. Identify 3 recent publications most representative of your accomplishment that are relevant to the research work to be undertaken in this proposal (reprints to be submitted with the application material). Do not include manuscripts in preparation or submitted.

*The page limit for this section is one page.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_

**3. Research Plan**

**3.1** **The problem to be solved.** Define the problem in the emerging infectious disease area to be investigated, focusing on its relevance to the project mission and its importance from either fundamental and translational perspectives. Describe the state-of-the-art and identify the current bottleneck. *(about half a page recommended)*

**3.2** **The innovative ideas proposed.** Define the specific aims of the project. Specifically highlight the innovative approach(es) you propose, including its rationale, originality, and scientific merit. *(about half a page recommended, to be elaborated later in Section 3.4)*

**3.3** **The potential impact of the work.** Describe how the outcome of this project may impact the specified mission of rapid deployment solutions to emerging infectious diseases, if successful *(about half a page recommended)*.

**3.4** **Plans to test the ideas.** Describe the research approaches in each specific aim. Identify the scientific or technical challenges, risks/difficulties, projected milestones and the timeline to accomplish them.

Also describe international competitiveness of your project and the expertise of the team you assembled. For team projects, provide a succinct description of how your research team is organized and how different components of the projects are coordinated; how the expertise of your co-PIs and collaborators is essential to this project and complements one another. Note that Supporting Letter(s) from collaborator(s) affirming individual commitment to the designated roles should be obtained and submitted together with this proposal.

*The total page limit for this section including references is* ***ten*** *pages for both individual and team projects, irrespective of how many component projects or co-PIs; by A4 size, 1 inch or 2.54 cm margins for all sides, single spaced, font: Times New Roman or Calibri, 11 point. Smaller font size 9 or 10 is allowed only for Figure legend and Bibliography.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.    Changes/Progress made since last Application**

Please state if this application is an extension of any of your ongoing or completed grant support, or previous failed application(s) to any of the AS grant program. *You may simply provide a statement or two if this has already been elaborated in the Research Plan section.* *You can ignore this Section if non-applicable but failure to disclose the relevant information may disqualify your current application*.

**4.1 If this is an application to extend or renew your ongoing or completed grant support** (provide grant number and title) for related research topics and aims, summarize the major accomplishment thus far and how the current proposal may capitalize on this recent progress to make further advances in the next 5 years.

**4.2 If this is an application based on similar research aims proposed in previous round of failed application** (to any AS grant type), describe the major changes you have made in response to Reviewers' comments and/or after taking into considerations progress in the field (either your own or others) since the proposal was last submitted. Point-to-point rebuttal is not required.

*The page limit for this section is* ***one*** *page.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. Budget and Other Resources Requested**

5.1 Use the Budget Table to prepare your itemized budget request. Briefly justify the budget allocated for each of the categories, including the intended number and level of research personnel to be employed, major equipment and consumable items requested, and any other aspects not apparent from the Table. Include also requests for residency lab space and access to core facilities at NBRP, if applicable.

5.2 For integrated team projects, briefly justify how the total budget requested will be distributed among the co-PIs and PIs. For multi-components team projects, provide a separate Budget Table and justification for each individual component projects, if maintaining separate accounts are desirable and more convenient for administrative purposes.

5.3 The funding ceiling per project is 20 M per year for 4+1 years, but the actual funding level and length will be commensurate to the project proposed. The 5th year funding will only be granted upon satisfactory performance.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 年度Year | 1 | 2 | 3 | 4 | 5 |
| 業務費Operating Expenses(A) | 教育訓練費Training | International |  |  |  |  |  |
| Domestic |  |  |  |  |  |
| Mainland China |  |  |  |  |  |
| 旅費Travel | International |  |  |  |  |  |
| Domestic |  |  |  |  |  |
| Mainland China |  |  |  |  |  |
| 臨時人員酬金Personnel Salary |  |  |  |  |  |
| 研究相關耗材費用Consumables |  |  |  |  |  |
| 業務費總額Total (A) |  |  |  |  |  |
| 機械(儀器)設備費Equipment(B) | 非資訊相關Non-Computer Item  |  |  |  |  |  |
| 資訊相關Computer-related Item |  |  |  |  |  |
| 設備費總額 Total (B)  |  |  |  |  |  |
| 獎補助費Graduate Student Stipend (C) |  |  |  |  |  |
| 總金額Total (T) = (A)+(B)+(C) |  |  |  |  |  |

\*單位：新臺幣千元 \*Unit: thousand NTD

*The Total Budget Plan (using Table above) and the descriptive justifications to be provided should not exceed* ***one*** *page, excluding additional budget Tables for component projects.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6. Personal Track Record** (for every Project PI and Co-PIs)

**6.1** **Output from Recently Completed** (2020-2021) **and Current AS Grant Support**

List only publications that carry statement specifically acknowledging the relevant AS grant support. (Include Abstract as appeared in the cited publication).

**6.2 Biographical Sketch**

Each PI and co-PI should use the template provided in the next page to prepare their **Biographical Sketch**,which should include among others:

i) a **Personal Statement** - brief self-introduction of research path/career in 200-300 words;

ii) **Contributions to Science** - a summary of major research achievements by referring to selected key publications and other forms of contributions, their significance and impact;

iii) **Complete/Selected List of Recent Publications** - selected key publications can be combined with a more complete list of publications in the last 5 years, but keep to the total page limit.

*This section including list of publications should not exceed* ***four*** *pages for each PI and co-PI of individual (component) Projects.*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**BIOGRAPHICAL SKETCH**

**NAME:** 中文姓名**：**

**INSTITUTE/RESEARCH CENTER:**

**Current POSITION:**

**EDUCATION** (Begin with baccalaureate or other initial professional education)

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **DEGREE** | **DURATION**MM/YY-MM/YY | **FIELD OF STUDY** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**EMPLOYMENT** (Include postdoctoral training)

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **POSITION TITLE** | **DURATION**MM/YY-MM/YY | **FIELD OF STUDY** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **PERSONAL STATEMENT**

A brief self-introduction of research path/career, 200-300 words

1. **HONORS**

Include Professional distinctions and service, honors and selected speaking invitations

1. **CONTRIBUTIONS TO SCIENCE**

Summarize major research achievements and describe their significance and impact

1. **LIST OF PUBLISHED WORK**

Provide a complete or selected list of recent (last 5 years) publications to keep within the total four-pages limit. Earlier key publications can also be provided here, or under item III above.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total should not exceed 4 pages

**6.3** **Current and Pending Grant Support**

List any current (ongoing) and pending projects/proposals funded by Academia Sinica and external agencies. AS allows submission of similar proposals to more than one funding sources but any overlapping similarity and/or requested cost-sharing items must be fully disclosed and justified to avoid duplicated funding. Any incomplete or inaccurate information will adversely affect the consideration of this proposal.

Please be reminded that,

1. applicants should not submit the same proposal for different types of AS grant program during the same grant application cycle;
2. applicants must fully disclose if similar proposal has also been submitted to MoST and other funding agencies at the time of submitting this proposal to AS, with the amount requested and any duplicated items fully described and justified here; any eventual cost-sharing, joint or supplemental funding by multiple agencies must comply with their respective funding policies;
3. applicants must pro-actively inform the AS grant program office if the funding decision of any pending application is known before the outcome of this application is announced; applicants should withdraw current proposal if adequate funding has been secured.

主持人/共同主持人Principal Investigator/co-PI:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | (1) Funding Agency and Project Type補助單位及計畫類型: e.g. 中研院/科技部 個人型/整合型(2) Grant Title and number計畫名稱與編號 : ● Status計畫狀態: □ Current執行中 □ Pending申請中 ● Research Role計畫擔任角色: □ Project PI/Program Director 計畫(總)主持人  □ Project co-PI 計畫共同主持人 □ Subproject PI/co-PI分支計畫(共同)主持人(3) Project Period執行期間: \_\_\_\_\_\_(YYYY/MM) to \_\_\_\_\_\_(YYYY/MM)

|  |  |  |
| --- | --- | --- |
| Year 年度 | Total Project Amount 總研究經費 |  Individual Project Amount個人研究經費 |
|  |  |  |
|  |  |  |
|  |  |  |

(4) Funding Amount in thousands of NTD補助總額 (仟元) (5) Is there any relationship between this funded/pending grant project and the current application? 此計畫是否與本次申請計畫有相關？□ No □ Yes. (Please specify details請敘明其關聯性) |

*\*Extend this form as necessary to include all funding sources.*