

中央研究院 113 年度第 2 梯次「關鍵突破種子計畫」計畫書
2024 2nd Academia Sinica Grand Challenge Program Seed Grant Proposal

A reminder on the items to be completed online:

I. Summary Statements

Please address each of the following questions in a short statement(s) of less than 100 words:

- i) What is the grand challenge problem to be addressed? Which part of the problem will be solved?
- ii) How are you going to solve the problem you identified? How innovative is your approach?
- iii) How transformative and what is the extent of anticipated impact, if it works.

II. Budget Plan and Justification

- i) Complete the budget request based on the categories itemized in the Budget table.
- ii) 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 Budget Form.
- ii) For integrated team projects, briefly justify how the total budget requested will be distributed among the co-PIs and PIs.

III. Current and Pending Grant Support

- i) Disclose any current (ongoing) and pending projects/proposals funded by Academia Sinica and external agencies. Any incomplete or inaccurate information may disqualify this proposal.
- ii) Please note that AS allows the submission of similar proposals to more than one funding sources, but any overlapping in the research plan and/or requested budget items must be fully disclosed and justified to avoid duplicated funding. The eventual cost-sharing, joint or supplemental funding by multiple agencies must comply with their respective funding policies.
- iii) Applicants should 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 the current proposal if adequate funding has been secured.

Complete the **2-page Research Plan** and provide the **Personal Track Records** of each PI and co-PI using the document template starting next page. Adhere to the format and rules specified within. These two sections should be combined and uploaded as a **single PDF** electronic file via the online system. Include also any supporting letter from collaborator(s), if any.

計畫名稱 (中文):

Project Title (English):

計畫(總)主持人 Project PI / 申請單位 Affiliation:

計畫類別 Project Category: | 個人型 Individual Project | 單一整合型 Integrated Team Project |

1. Research Plan

Describe the proposed Research Plan, which should include the following items:

- i) the **specific problem to be solved**, the state-of-the-art and the current bottleneck;
- ii) the **innovative ideas proposed**, the novel elements, to what extent is the approach innovative, and what are the closest ideas published by others to date;
- iii) the **potential impact of the work**, how it may lead to a breakthrough and transform the field if the project is successful;
- iv) **plans to test the ideas**, the specific aims and their respective research approaches, the scientific or technical challenges, potential risks and key deliverables in two years.

Also briefly describe the international competitiveness of your project, the organization and complementary expertise of the team you assembled (for integrated team project).

*This section including references is limited to **two** pages in total (1 inch or 2.54 cm margins for all sides, single spaced, font: Times New Roman or Calibri, 11 point).*

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

Describe your personal research track record and major accomplishments in the following order:

- i) **Career Path** – Briefly introduce your research path/career (in less than 250 words)
- ii) **Contributions to Science** – Summarize your major research achievements by referring to selected key publications and other forms of contributions, their significance and impact.
- iii) **Recent Accomplishments** from Grant Support - Summarize your research accomplishments over the last 5 years and credit them to grant support where applicable.
- iv) **Output from recently completed (2022-2024) and current AS Grant Support** – List only publications that specifically acknowledged the relevant AS grant support and provide their identifying grant numbers. Briefly describe their main findings and significance or include the published Abstracts.

*This section should not exceed **four** pages for each PI and co-PI (same page margins, line spacing, and font size specifications as Section 1). Your selected or complete list of Publications will be generated automatically by the online application system from your updated personal record database.*
