**中央研究院111年度「主題研究計畫」計畫申請書**

**2022 Academia Sinica Thematic Research Program (TP) Proposal**

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| 申請組別  Division | 🞎 數理組Mathematics and Physical Sciences  🞏 生命組Life Sciences  🞏 人文社會組Humanities and Social Sciences  \*跨組者可複選Select applicable divisions for a cross-disciplinary project | | | | | |
| 計畫類別  Project Category | 🞏 1.個人型 Individual Project  🞏 2.單一整合型 Integrated Team Project | | | | | |
| 計畫名稱  Project Title | 中文： | | | | | |
| English: | | | | | |
| 計畫(總)主持人Project PI or  Project Director | 中文： | | | 職稱  Position |  | |
| English: | | | 申請單位  Affiliation |  | |
| 共同  計畫主持人  Project Co-PI | 中文 / English:  1. | | | 職稱及單位/Position & Affiliation | | |
| 2. | | |  | | |
| 3. | | |  | | |
| 計畫經費  單位：新臺幣千元Total Budget  Unit: thousand NTD | 第一年 Year 1: | | 第二年 Year 2: | | | 第三年 Year 3: |
| *≤* 8,000 千元 (單一整合型)  ≤ 5,000 千元 (個人型) |  | | | |  |
| 計畫聯絡人  Project  Contact Person |  | | | Email: | | |
| Tel: | | |
| 計畫關鍵詞  Key Words | 中文：  English: | | | | | |

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**2022 Academia Sinica Thematic Research Program (TP) Proposal**

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計畫名稱 (中文)：

Project Title (English):

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

申請單位Affiliation:

計畫類別Project Category:

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**1. Executive Summary and Chinese Abstract**

*Please address each of the following questions briefly and precisely:*

* 1. What is the Thematic Research problem to be addressed? Which part of the problem will be solved?
  2. What is your major idea? How innovative it is? How are you going to solve the problem you identified?
  3. How much impact you will make after the 3-year funding period, if the project is successful.

In addition to an Executive Summary answering to the above points in a total of ≤ **250 English words**, provide also a **Chinese Abstract** based on the above statements in less than 500 words.

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**2. Research Plan**

**2.1** **The problem to be solved.** Define the identified Thematic Research problem(s), focusing on its importance. Describe the state-of-the-art and identify the current bottleneck. *(about half a page recommended)*

**2.2 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 2.4)*

**2.3** **The potential impact of the work.** Describe how it may lead to a breakthrough and transform the field if the project is successful. Focus on its scientific and/or societal impact. *(about half a page recommended)*

**2.4 Plans to test the ideas.** Describe the research approaches in each specific aim. Identify the milestones and the timeline of accomplishing them. Focus on the logic and scientific or technical challenges.

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; 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 submitted together with this proposal.

*For MPS and LS Divisions, the total page limit for this section including references is* ***10*** *pages* *for both individual and team projects, irrespective of how many 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. A total page limit of* ***20*** *pages for this section including references is allowed only for HSS Division.*

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**3. Budget Plan and Justification**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 年度Year | | | 1 | 2 | 3 |
| 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; 3rd year funding is subject to satisfactory performance

Briefly justify the total budget requested and how it will be distributed among the co-PIs for integrated team.

*The Total Budget Plan (using Table above) and the descriptive justifications to be provided should not exceed* ***one*** *page.*

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**4. Summary of Previous Research Accomplishments**

Summarize and highlight your previous research accomplishments in the **last five years**, paying particular attention to describing the respective outcome from each of the previous grant supports (include the funding sources and grant number) for all accomplishments described here. Do not include manuscripts in preparation or submitted.

簡述個人過去5年的具體學術表現與研究成果，請註明各項成果由哪些計畫(含院內外)的經費補助產出，並列出其計畫編號。

*The page limit for this section is* ***one*** *page for each PI and Co-PI(s).*

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**5. Biographical Sketch** (for Division of Mathematics and Physical Sciences & Division of Life Sciences), or **Curriculum Vitae**(CV, for Division of Humanities and Social Sciences)

5.1 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

5.2 For PIs in Division of Humanities and Social Sciences using an alternative **CV** format,the content should include **Contact Information, Current Affiliation and Title, Education and Professional Experiences, Research Interests, Awards and Honors, and Selected Publication List.**

**個人簡歷** 應含**聯絡資訊、所屬單位與職稱、學經歷、研究領域、獎項及榮譽、代表性著作目錄**

*This section including list of publications should not exceed* ***four*** *pages for each PI and co-PIs.*

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**BIOGRAPHICAL SKETCH**

**NAME:** 中文姓名**：**

**INSTITUTE/RESEARCH CENTER:**

**Current POSITION:**

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

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| --- | --- | --- | --- |
| **INSTITUTION AND LOCATION** | **DEGREE** | **DURATION**  MM/YY-MM/YY | **FIELD OF STUDY** |
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**EMPLOYMENT** (Include postdoctoral training)

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

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Total should not exceed 4 pages

**6.** **List of Current and Pending Grant Support**

Please list any current and pending projects/proposals funded by Academia Sinica and external agencies in the last three years (from 2019-2021). Any incomplete information may adversely affect the consideration of this proposal. Please be reminded that applicants should not submit the same proposal to multiple funding sources at Academia Sinica and/or to external funding agencies at the same time.

請列舉近3年所執行或申請中之院內、外研究計畫及其相關資料，資訊不足者將影響審查。請勿以同一計畫書同時向本院不同計畫及院外補助機關提出申請補助。

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: 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: □ A. Current執行中 □ B. Pending申請中  ● Research Role計畫擔任角色: □ A. Project PI/Project Director 計畫(總)主持人  □ B. co-PI 計畫共同主持人 □ C. 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 project/proposal and the Thematic Research Program for which you are applying? 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) |
| 2 | (1) Funding Agency and Project Type補助單位及計畫類型:  (2) Grant Title and number計畫名稱與編號 :  ● Status計畫狀態: □ A. Current執行中 □ B. Pending申請中  ● Research Role計畫擔任角色: □ A. Project PI/Project Director 計畫(總)主持人  □ B. co-PI 計畫共同主持人 □ C. 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 project/proposal and the Thematic Research Program for which you are applying? 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.*