

Based on the Memorandum of Cooperation (MOC) dated March 16th, 2016, Japan Agency for Medical Research and Development (hereinafter referred to as "AMED") and the Agency for Science, Technology and Research, Singapore (hereinafter referred to as "A\*STAR") have expressed the desire to strengthen R&D cooperation between scientists in Japan and Singapore in biomedical scientific research. The AMED-A\*STAR joint call is therefore being launched to take the AMED-A\*STAR engagement to a deeper level. For this call,

was selected as the specific research area.

The aims of this call is to strengthen research collaborations between Japan and Singapore within the field of

With regard to "Cancer Complexity", recent studies have revealed that tumor tissues are composed of heterogeneous and highly diverse cell populations. It is important to understand cancer as a complex biological system through more detailed and multi-dimensional analysis of the pleiotropic interactions between cells promoting and maintaining tumor growth.

Taking advantage of existing strengths, such as basic cancer biology in Japan and computational science in Singapore, key challenges in the area of cancer translational and basic research should be addressed. Examples of key challenges are:

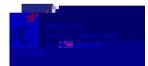
Elucidating the roles of RNA and RNA-sensing pathways in tumor progression and immunity
Mapping field cancerisation to define mutual influences among cancer and other cell types

- Harnessing AI to integrate and mine big data of single-cell and spatial omics for precision diagnosis and therapy

- Biological and computational view of cancer evolution and adaptation.

This is operated under the Strategic International Collaborative Research Program (SICORP) between AMED and A\*STAR.





To accomplish the R&D objectives mutually agreed upon by both countries, AMED will assign a Program Supervisor (PS) and Program Officer (PO), who play key roles in the evaluation process and management of projects on the Japanese side.

AMED and A\*STAR invite researchers based in Japan and Singapore to submit proposals for this call pertaining to the research area of

. This call for collaborative proposals will require a set of applicants (coapplicants) who will serve as co-Principal Investigators (PI) based in Japan and Singapore to work in partnership on research projects. Japan-based applicants will be funded by AMED, while Singapore-based applicants will be funded by A\*STAR. Eligibility Ä

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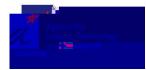




Funding for Japan-based Teams may be used for:

	Items	Standard definitions
Direct Expenses	Facilities, equipment and consumables	Costs for purchasing new equipment, supplies,

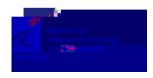




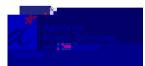
The total budget for each project proposed by Singapore-based co-applicants over a full three (3)-year period (i.e. thirty-six (36) months) should not exceed two hundred and fifty thousand (250,000) Singapore dollars in principle including indirect costs (Note: Indirect costs will apply to all applicants). The planned budget for research projects may vary each year, depending on the planned activities specific to each project.

Funding provided within this call is intended to enhance the capacity of Singapore-based applicants to collaborate with their international counterparts, these include local research costs as well as expenses for travel and/or conducting seminars/symposia.



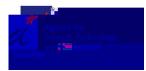






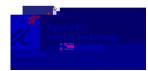
reserve the right to terminate further fund disbursements if this condition is not met.





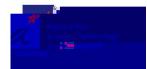
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by the end of November 2023.





Once their proposal has been selected for funding, the co-PIs and their affiliated institutions will observe the following when carrying out the collaborative research and utilising funds provided by AMED and A\*STAR.

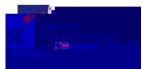
## 1. Annual Progress Report

At the end of each financial year for A\*STAR-funded researchers; and at the end of each fiscal year for AMED-funded researchers, the respective PI should promptly submit a progress report within two (2) months after the end of the financial year (for A\*STAR-funded researchers) and within two (2) months after the end of the fiscal year (for AMED-funded researchers), and the institution with which the PI is affiliated shall promptly submit a financial report to AMED or A\*STAR as appropriate.

## 2. Final Report

Final reports should be submitted within three (3) months after completion of the period of international collaborative research to AMED and A\*STAR respectively. The report shall include a general summary (the report format will be notified in advance) compiled jointly by both the Japan- and the Singapore-based research grÄ s.





Japan-based co-applicants should contact the following for further information: KOJIMA Naoko (Dr.) Division of Research Programs, Department of International Strategy Japan Agency for Medical Research and Development Tel. +81(0)3-6870-2216 sicorp@amed.go.jp

Singapore-based co-applicants should contact the following for further information: DING Hui Jun (Ms.) Agency for Science, Technology and Research (A\*STAR) Office of Grant Administration Tel: (65) 6419 6682 ding\_hui\_jun@hq.a-star.edu.sg