

Clinician Scientist-Individual Research Grant

CS-IRG (1)

Objective

- CS Individual Research Grants (CS-IRGs) are provided to Clinician Scientists (CS) to enable them to carry out medical research on a specifically defined topic for a period of 3 years in local public institutions.

Funding Quantum, Duration and Grant Call Frequency

- The CS-IRG will provide a funding quantum of up to **S\$1.5M** per project for **3 years** with additional 20% indirect costs provided to the host institution of the lead PI.

CS-IRG (2)

Eligibility Criteria

Each grant application must be led by a **Clinical PI** who has to **fulfill the eligibility criteria** listed below at the point of application:

- **Clinically qualified** (i.e. with MBBS/MD/BDS) and preferably with **post-graduate clinical training and experience**.
- For proposals **involving patients**, the clinical PI or co-I should be **SMC registered**; or should be able to demonstrate ability to access patients through SMC registered collaborators.
- For some CS-IRG proposals it is recognized that some studies may be **pre-clinical** and do not require the PI to be SMC registered.
- Only one PI is allowed per application. The number of application by an individual (as PI) is capped at 1 grant application per grant type in a grant call.

CS-IRG (3)

Additional Eligibility Criteria:

- (a) Hold a primary appointment in a local public hospital/public health institutions/national specialty centre/public universities/Academic Medical Centres and salaried by the institution.
- (b) Be an independent PI with a demonstrated track record of research as evidenced by the award of nationally competitive funding (international funding to be considered on a case by case basis) or substantial publication record.
- (c) Have a laboratory or clinical research program that carries out research in Singapore.
- (d) Hold a minimum of 9 months employment with a local Singapore institution. Upon award, the PI must agree to fulfill at least 6 months of residency in Singapore for each calendar year over the duration of the grant award.
- (e) No outstanding reports from previous BMRC, NMRC and other national grants

**Subcategory New Investigator Grant
(CS-IRG-NIG)**

Subcategory CS-IRG-NIG (1)

Objective

- The **CS-IRG New Investigator Grant (CS-IRG-NIG)** is a sub category of the CS-IRG to cater for new clinical investigators.
- Applicants with substantial research experience will not be accepted under this category.

Funding Quantum, Duration and Grant Call Frequency

- The CS-IRG-NIG will provide a funding quantum of up to **\$200,000** per project for **2 years** with additional 20% indirect costs provided to the host institution of the lead PI.

NIG-specific Eligibility Criteria

- Applicants who are applying as new investigators category have to work with a **mentor** for guidance in their research. This mentoring will provide support for a period of supervised research leading eventually to the clinical investigators conducting larger scale research projects independently. Please note that the NIG is intended to fund a new investigator's independent project, and not to provide additional funding for the mentor's project (or clinical trial).

- To be eligible for NIGs in general, the following requirements apply:

- (i) Applicants must not have held any national grants (e.g., NMRC, A*STAR, NRF, MOE AcRF Tier II, etc) or international grants (e.g., MRC, NIH, NHMRC, etc) as a PI/Co-PI* **prior to the award of the NIG.**

- (iii) Applicants must not have held any grants cumulatively exceeding \$300,000 from any other agencies as PI/Co-PI

**Co-PIs refer to PIs whose projects are jointly led by other PIs (e.g. projects under NMRC's Bedside & Bench grant). They are not the same as, and should not be confused with Co-Investigators (Co-Is).*

**Health Services Research
New Investigator Grant (HSR-NIG)**

Subcategory HSR-NIG (1)

Objective

- Health Services Research (HSR) aims to study how social factors, financing systems, organisational structures and processes, health technologies, and personal behaviours affect access to health care, the quality and cost of health care, and ultimately our health and well-being.
- The Health Services Research New Investigator Grant (HSR-NIG) is a sub category of the HSR CRG to cater for new HSR investigators.
 - Applicants with substantial research experience will not be accepted under this category.

Funding Quantum, Duration and Grant Call Frequency

- The HSR-NIG will provide a funding quantum of up to **S\$100,000** per project for **2 years** with additional 20% indirect costs provided to the host institution of the lead PI.
- Grant Call for HSR-NIG will be made once a year in November.

Subcategory HSR-NIG (2)

Eligibility Criteria

- Hold a primary appointment in a local public hospital/public health institutions/national specialty centre/public universities/Academic Medical Centres and salaried by the institution (i.e. Clusters/ RH&Is, Universities, HPB, or HSA).
- Hold a minimum of 9 months employment (per calendar year) with local Singapore institution(s). Upon award, the PI must agree to fulfil at least 6 months of residency in Singapore for each calendar year over the duration of the grant award.
- Applicants should have at the minimum a **Master's Degree**
- No outstanding reports from previous BMRC, NMRC and other national grants

Review Process & Assessment Criteria

	CS-IRG	CS-IRG-NIG, HSR-NIG
Review Process	<u>Two stage review process:</u> <ol style="list-style-type: none"> 1. International peer review 2. Local Review Panel (LRP) 	<u>Evaluation by:</u> 1. Local Review Panel (LRP)
Assessment Criteria	<ul style="list-style-type: none"> • Scientific excellence • Feasibility of study in local context • Productivity • Track Record of Investigators • Overall Impact in local context – influence on the research fields 	<ul style="list-style-type: none"> • Scientific excellence • Feasibility of study in local context • Productivity • Suitability of the applicant to be an independent investigator and to assume the role of a PI • Overall Impact in local context – influence on the research fields

Submission Mode and Deadline (CS-IRG/CNIG, HSR-NIG)

- It is **mandatory** for all applications to be submitted **online via nGager** by **11 Dec 2015, 5pm**
- nGager is compatible to **Internet Explorer** or **Mozilla Firefox** only
- Please ensure that all submissions are endorsed by the corresponding host institution's Research Director.
- We will not entertain any late/hardcopy submissions or submissions from individual applicants without endorsement from the Host Institution.
- Application forms, guidelines and grant call information are available on the NMRC website.

MOH Industry Alignment Fund (MOH IAF)

MOH Industry Alignment Fund (MOH IAF) (1)

Objective

- To support clinicians carrying out **pre-clinical** and **clinical** research in collaboration with the industry

MOH IAF Category 1

- Open whole year till **31 Dec 2015**

MOH IAF Category 1 (2)

Items	Category 1 Details
Supports	<ul style="list-style-type: none"> • Pre-clinical and clinical research projects <ul style="list-style-type: none"> - multiple individual projects which form long term collaborations among PIs and industry partners, with potential to generate impactful outcomes - individual projects with significance on national BMS research agenda and industry relevance
Industry Partner	Required
Prerequisite	<ul style="list-style-type: none"> • At least 70% of total project costs (cash or in-kind) contributed by industry • Reflected in RCA
Funding Quantum (inclusive of IRC)	<ul style="list-style-type: none"> • Up to \$500,000/project for pre-clinical research • Up to \$1mil/project for clinical research • Up to \$1.5mil/project for translational research involving both pre-clinical and clinical elements
Funding Duration	Up to 2 years, with one year extension (subject to approval)

Note: PIs can also apply for funding of projects or expansions/addendums started since 1 Jan 2013 (reflected in RCAs)

MOH IAF - Eligibility Criteria (4)

- Each grant application must be submitted by a :
 - **Clinical or Non-clinical Principal Investigator** for **pre-clinical** projects
 - **Clinical Principal Investigator** for **clinical projects**who has to fulfil the eligibility criteria listed below at the point of application.
- Only one **Principal Investigator (PI)** is allowed per application.
- **Non-clinical Principal Investigator** should possess a minimum academic qualification of a **PhD**.
- **Clinical Principal Investigator** must be **clinically qualified** (i.e. with MD/MBBS/BDS) with **post-graduate clinical training** and experience (Note: For clinical trials projects, pls refer to CTG criteria)

For proposals involving patients, the clinical PI should be SMC registered; or should be able to demonstrate ability to access patients through SMC registered collaborators.

MOH IAF - Eligibility Criteria (cont'd) (5)

Other Eligibility Criteria:

- Must hold a primary appointment and be full time employed and salaried in a **local public hospital/public health institution/national specialty centre/public university/academic medical centre**.
- Must be an independent PI with a demonstrated **track record of research** as evidenced by the award of nationally competitive funding (international funding to be considered on a case-by-case basis), or substantial publication record.
- Have a **laboratory or clinical research program** that carries out research in Singapore.
- Hold a minimum of **9 months employment** with a local Singapore institution. Upon award, the PI must agree to fulfil at least 6 months of residency in Singapore for each calendar year over the duration of the grant award (Note: For projects involving **clinical trials**, CTG criteria of full time residency applies).
- No outstanding reports from previous BMRC, NMRC grants and other national grants.

MOH IAF - Assessment (6)

Review Process

- The review of Category 1 will take about 3 months after application closes

Assessment Criteria

- Industry involvement and contribution
- Commercial potential
- Scientific contribution
- Productivity
- Track Record of Investigators
- Significance of the clinical problem
- Overall Impact in local context – eg. health outcomes, likelihood for project to exert a sustained, powerful influence on the research fields involved

Submission Mode and Deadline

- It is **mandatory** for **all applications** to be submitted **online via nGager**.
- Must be endorsed by the Research Director or equivalent upon submission.
- Application guides and grant call information are available on the NMRC website.

Talent Development

Human Capital Awards

Agenda

- Types of Programmes
- Objective of Award
- Funding Quantum
- Grant Call Frequency
- Eligibility Criteria
- Review Process
- Assessment Criteria

Human Capital Awards

Types of Programmes

- Clinician Scientist Award (CSA)
- Transition Award (TA)

Clinician Scientist Award (CSA)

Clinician Scientist Award (1)

Objective

- To provide salary & funding support for selected outstanding clinician scientists, to enable them to carry out internationally competitive translational and clinical research.
- 2 categories of award:
 - INV
 - SI

Funding Quantum

- PI's salary support according to NMRC annual salary cap
- Grant support of up to:
 - **S\$675,000 over 3 years** (INV category)
 - **S\$1,750,000 over 5 years** (SI category)
- With additional 20% indirect costs

Clinician Scientist Award (2)

- **Two** categories for time commitment in research
 - i. $\geq 70\%$
 - ii. 50-69 %
- Corresponding salary component
 - i. $\geq 70\%$ time commitment
 - Full salary support (with maximum annual cap)
 - ii. 50-69% time commitment
 - Salary provided will be adjusted proportionately

Grant Call Frequency

- Twice a year
- Opening dates: **May** and **November**

Clinician Scientist Award (3)

Eligibility Criteria

- **Clinically qualified PIs***
 - MD/MBBS/BDS
 - Preferably with post-graduate clinical training and experience.

** Exceptions will be made on a case-by-case basis for applicants who are not clinically qualified as defined above*
- Must be Singapore citizen or Permanent Resident at the point of award
- Upon award, applicant must hold :
 - A **regular-rank faculty/academic appointment** in one of the academic medical centres (AMC) or medical school.
 - A **primary appointment** in a local public hospital/ institution/ national speciality centre/university/Academic Medical Centre
- Be an independent PI holding **at least one national or international research grant, equivalent to an IRG-level grant**

Clinician Scientist Award (4)

Review Process

- **Two-stage** review process comprising an **international peer review stage** followed by a **collective review** by the Local CSA Panel.
- The review process will take about 6 months after the application closes.

Assessment Criteria

- Scientific excellence will be the highest priority
- Feasibility of study in local context
- Productivity
- Track Record of PI
- Overall Impact in local context

Transition Award (TA)

Transition Award (1)

Objective

- To assist **budding, young clinicians** who have just returned from formal research training, to build up their capability in research
- Help the clinicians to transit to a stable independent research position or other independent research funding.

Funding Quantum

- PI's salary support
- Funding quantum of up to **S\$375,000** per project over 3 years
- Additional 20% indirect costs

Grant Call Frequency

- Twice a year
- Opening dates: **May** and **November**

Transition Award (2)

- **Two** categories for time commitment in research
 - i. $\geq 70\%$
 - ii. 50-69%
- Corresponding salary component
 - i. $\geq 70\%$ time commitment
Full salary support (with maximum annual cap)
 - ii. 50-69% time commitment
Salary provided will be adjusted proportionately

Transition Award (3)

Eligibility Criteria

- **Received scientific training**
 - PhD /Masters, or
 - At least 2 years of postdoctoral research experience
- Must be clinically qualified PIs
 - MD/MBBS/BDS Preferably with post-graduate clinical training and experience.
- Singapore citizen or Permanent Resident upon award
- Upon award, applicant must hold :
 - A regular-rank faculty/academic appointment in one of the academic medical centres (AMC) or medical school.
 - A primary appointment in a local public hospital/institution/national speciality centre/university/Academic Medical Centre

Transition Award (4)

Criteria on PI's previously held grants

- Not an independent PI on national/international research grants.
- Recipients of institutional grants or NIG grants are eligible to apply.
- Applicants who have previously held one national grant (e.g. EDG or IRG), can apply on exceptions basis with justifications.

Transition Award (5)

Review Process

- Evaluation by the Transition Award Review Panel (TARP).
- The review process will take about 5 months after the application closes.

Assessment Criteria

- Scientific excellence will be the highest priority
- Feasibility of study in local context
- Productivity
- Overall Impact in local context
- Track record of mentor and mentorship training plans
- Suitability of the applicant to be an independent investigator and to assume the role of a Principal Investigator in the proposal.

Submission Mode and Deadline

- It is **mandatory** for **all applications** to be submitted **online via nGager by 1 Dec 2015, 5pm.**
- Endorsement by the Research Director (for host Institution) and Dean (for academic institution) or equivalent upon submission.
- Talent development programmes such as the NMRC Research Training Fellowship and MOH Healthcare Research Scholarship applications to be submitted **online** via nGager too.
- The Host institution to submit a summary of the applications to NMRC.
- Late submissions, submissions from individuals or those without endorsement from the Host Institution **will not be entertained.**
- Application forms, guidelines and grant call information are available on the NMRC website.