



IMPACT ORIENTED INTERDISCIPLINARY RESEARCH GRANT PROGRAMME (IIRG) 2019-2021

ASSOC. PROF. DR. SAIFUL ANUAR KARSANI

Dean, Frontiers of the Natural World

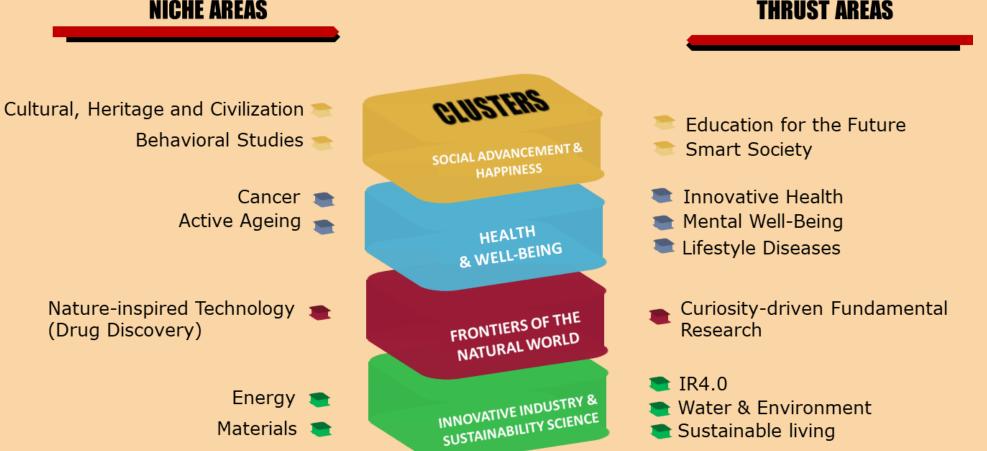
14th May 2019

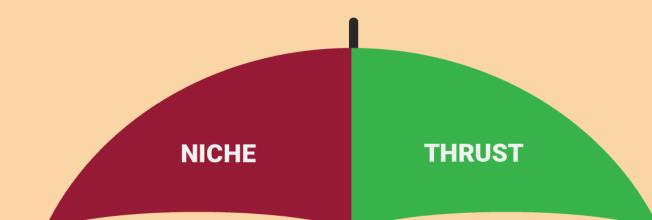
Auditorium, Level 1, Research Management & Innovation Complex, UM



In alignment with UM's aspiration to be the preferred partner in research & champions in leading interdisciplinary research, Research Cluster will focus on research areas with promising performances & experts-ready with critical mass (Niche) and emerging areas (Thrust).

NICHE AREAS





specialised research areas with strong foundation already existing in the university

Characteristics:-

- With strength (volume of research, visibility, recognised expertise)
- **Critical mass (sustainability)**
- Centre of research (as referral point, management) preferred
- impact (social economy, academic)

an area that the university would like to push an area of importance in the future current thrust could be niche in the future

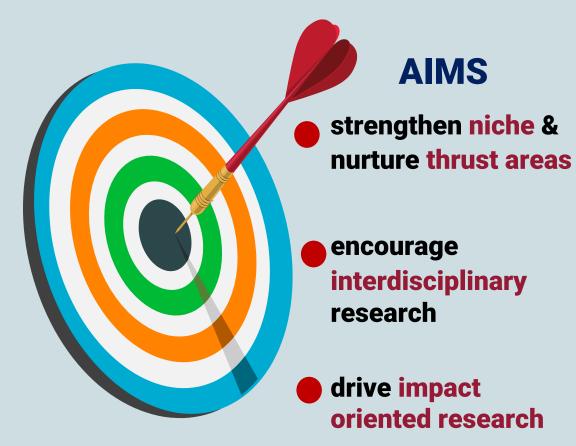
Characteristics:-

- Emerging
- Potentially impactful research
- □ Innovative

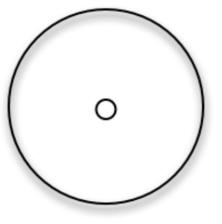
"To develop impactful research projects that address real world issues relevant to **the society and industry**. It is at these interfaces between different disciplines that creativity and innovation thrive"

DEFINITION -INTERDISCIPLINARY

a mode of research by teams or individuals that integrates information, data, techniques, tools, perspectives, concepts and/or theories from TWO or more disciplines or bodies of specialized knowledge to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline or area of research practice.*

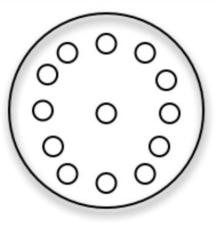


Single, Multi, Inter and Trans-disciplinary Research



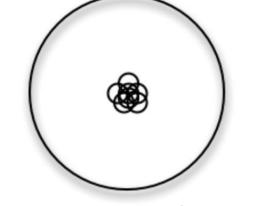
Within

problem Looking а within the frame of a recognised single, **discipline**. For example, dental research project focusing on bonding will mostly agent include dental material material scientists or collaborators will and publish in similar journals.



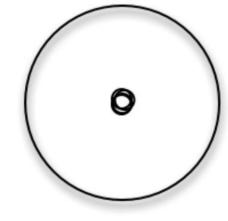
Add, Multiply

Looking at one problem adding multiple by perspectives and disciplines. Participants exchange knowledge and compare results, but stop of integrating short them. The disciplines maintain their distinctiveness and the results remain grounded in the framework of the root discipline



Integrate, Synthesis

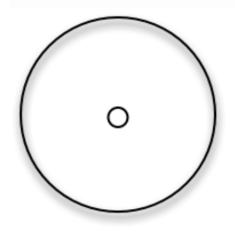
"among, between, in the midst" — integrating knowledge and methods from different disciplines using a synthesis of approaches. Interdisciplinary collaborations concerns between contrasting academic disciplines or research methods applications, new for new analyses, or the creation of entirely disciplines new (Nicolescu 1997).

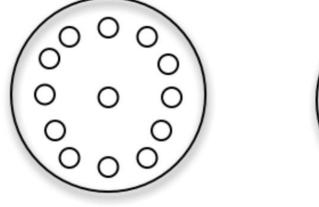


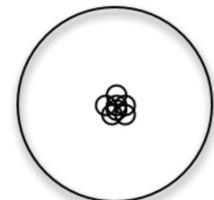
Transcend, Whole

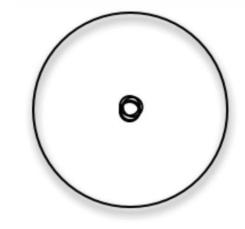
"across, over, beyond" — emergence of new discipline transcending the **boundaries of disciplinary** perspective. Transdisciplinarity combines interdisciplinarity with a participatory approach. The research paradigms involve non-academic participants as (equal) participants in the process to reach a common goal — usually a solution to a problem of society at large. It can be considered as the culmination of interdisciplinary efforts. The field of 'sustainability' in essence is а transdisciplinary one.

Single, Multi, Inter and Trans-disciplinary Research









ANALOGY



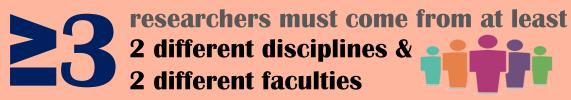








NO OF SUB-PROGRAM





UNIVERSITI MALAYA	APPLICATION FORM	ABERAKENYEKUBENA		EXECUTIVE SUMMARY (n jectives, problem stateme					
RESI	IALAYA IMPACT-ORIENTED INTER EARCH GRANT PROGRAMME (IIR 2019-2021 ROGRAMME SUMMARY : PART A	G)							
	ncomplete Form will be rejected]								
PROGRAMME LEADER									
PROGRAMME TITLE		•	C.	LINKAGES BETWEEN SUB-	PROGRAMME	(max. 300 woi	rds)		
SUB-PROGRAMME TITLE & LEADERS	SUB-PROGRAMME TITLE	SUB-PROGRAMME LEADER							
	1.								
	2.								
A. Research Programme [Please tick (O ONE (1) Niche OR Thrust area only!							
RESEARCH CLUSTER:	NICHE AREAS:	THRUST AREAS:							
Frontiers of the Natural World	Nature-Inspired Technology (Driving Drug Discovery)	Curiosity-Driven Fundamental Research		QUALITY OF RESEARCH	ERS				
Health & Well Being	Active Aging	Innovative Health	i.	Research Team Track F					
	Cancer	Lifestyle Diseases	No.	Name	Faculty	H-Index	Citations	No. of Publications**	Role/ Contribution
		Mental Well-Being	1.						
Innovative Industry &	٦.		2.						
Sustainability Science	Energy	IR4.0	3.	** For the past 5 years	and MUST be	relevant to th	e proposed pro	peramme	
	Materials	Water & Environment						-	
		Sustainable Living	ii.	International Collabor proposed programme		I Collaborato	r and Stakeho	olders (MUST be r	elevant to the
Social Advancement & Happiness	Behavioural Studies	Education for the Future	No.	Institution		Name of Rese	archer	Role/ Co	ontribution
	Cultural, Heritage and	Smart Society	1.						
	Civilization		2.						
					'			<u>'_</u>	

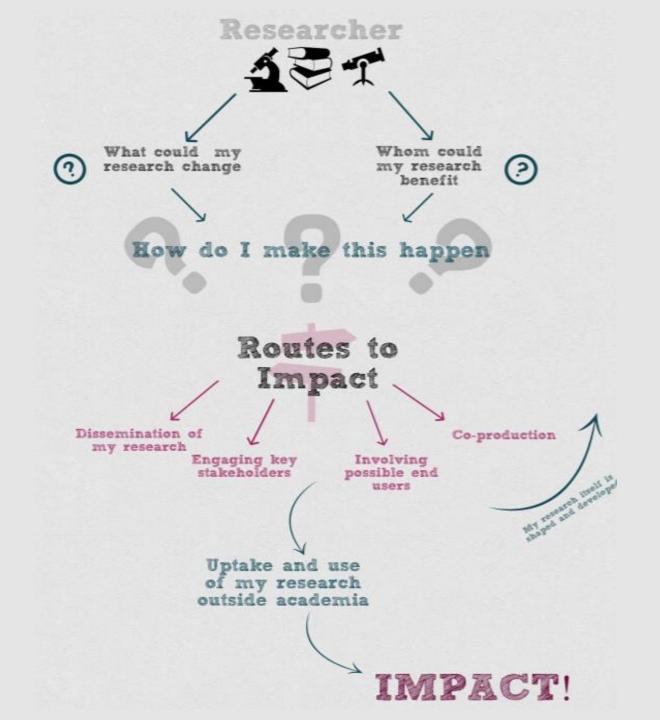
E. TARGETTED RESEARCH OUTPUT(Please select at least 1 (ONE) from each category)

i. ACADEMIC OUTPUT

No.	Details	Output	
1.	ISI		
2.	IPR/Copyright		
3.	Human Capital Developments		
4.	Book (s)/Chapters in book (s)		
5.	Scopus / Peer reviewed journal articles		
	(for non-science only & journal category A & B)		
6.	Policy		

ii. NON-ACADEMIC OUTPUT

No.	Details	Output
1.	Commercialization	
2.	Media Articles	•
3.	Website	
4.	Software/Applications	
5.	Societal Engagement	
6.	Others: Please specify	



IMPACT

F. RESEARCH IMPACTⁱ

You can use these columns to help write your 'IMPACT SUMMARY'		This may be helpful for <u>structuring</u> your 'Impact Summary' and 'Pathways to Impact' sections	You can use these columns to help write your 'PATHWAYS T		О ІМРАСТ'		
Who will your research benefit? (non-academic beneficiaries)	What will be the benefits to them from your research?	How would you categorise this benefit/beneficiary? (E.g. public, industry, Policy?)	How are you going to share your research with them? (I.e. what is the specific activity?)	When are these activities going to take place? (Be as specific as possible)	Who from your research project is going to arrange and deliver this activity?	What resources/ training will you need for this activity? (Include in costs & justification of resources)	How will you know these activities have been successful?

ADDITIONAL INFORMATION

 B(viii)
 Latest CV & Researchers' Profile (maximum 1 page each- Please use attached template for the profile and enclose in the Appendix)

 CV Terkini & Profile Penyelidik (maksimum 1 muka surat bagi setiap dokumen - Sila gunakan template

yang telah disediakan bagi profil penyelidik dan lampirkan di bahagian Apendiks)

D	RESEARCH DETAILS / BUTIRAN PENYELIDIKAN
Di)	Detailed Proposal of Research Sub-Programme : Maklumat cadangan sub-program penyelidikan secara terperinci:
	 (a) Abstract (maximum 150 words) Abstrak (maksimum 150 patah perkataan) (b) Graphical Abstract (maximum 1 page-A4)(Please use attached template and enclose in the Appendix) Abstrak grafik (maksimum 1 muka surat-A4)(Sila gunakan template dan lampirkan di bahagian Apendiks) (c) Research background including Introduction /Hypothesis /Research Questions and Literature Reviews. Keterangan latar belakang penyelidikan termasuk Pengenalan/kenyataan hipotesis / persoalan penyelidikan dan kajian literatur.
	(d) SMART Objective (s) of the Research/ SMART Objektif Penyelidikan** SMART i.e. specific, measurable, achievable, realistic and timely
	SPECIFIC: outline in a clear statement precisely what is required.
	MEASURABLE: include a measure to enable you to monitor progress and to know when the objective has been achieved.
	ACHIEVABLE: objectives can be designed to be challenging, but it is important that failure is not built into objectives. Employees and managers should agree to the objectives to ensure commitment to them.
	REALISTIC: focus on outcomes rather than the means of achieving them
	TIMELY(or time-bound): agree the date by which the outcome must be achieved.

S	Specific, Significant, Stretching Outline in a clear statement precisely what is required.
м	Measurable, Meaningful, Motivational Include a measure to enable you to monitor progress and to know when the objective has been achieved.
Α	Agreed upon, Attainable, Achievable, Acceptable, Action-Oriented Objectives can be designed to be challenging, but it is important that failure is not built into objectives. Employees and managers should agree to the objectives to ensure commitment to them.
R	Realistic, Relevant, Reasonable, Rewarding, Results-Oriented Focus on outcomes rather than the means of achieving them
т	Time-based, Time-bound, Timely, Tangible, Trackable Agree the date by which the outcome must be achieved

Allocation

- salary & wages: max = RM 30,000/year. Each SP must hire at least 1RA
- Travel = **fieldwork ONLY**
- X equipment

Research continuity

• Must show evidence that a proposal is ready for submission for external funding application as a continuation of the work in IIRG (at month 21)

Research output will be ONLY accepted if:

- after the grant is being awarded.
- **relevant** to the project/programme approved.

HIGHLIGHTS

UM Safety & Research Handbook

• Applications are subjected to all requirements stated in UM Safety & Research Handbook. DISQUALIFIED if failed to do so.

•Proof of submission of **Notice of Intent [NOI]** to IBBC must be attach with your proposal for research involving use of **infectious & potentially infectious agents/materials & biological toxins**.

Research Ethics

 Research involving human participants and the use of vertebrate animal subjects must be referred to the appropriate ethics committee

•If you are successful, please be reminded that **proof of ethics application must be submitted prior to the activation of research account**

mpact Oriented Interdisciplinary Research Grant Programme (IIRG) - Cycle 2					
File	Туре	Size	Uploaded on	Download	
IIRG Guideline Version 2 May 2019	PDF	500.36 KB	07 May, 2019	👼 Download	
A1-programme-summary-application-form Version 2-May 2019	DOC	498.50 KB	07 May, 2019	Download	
A2-sub-programme-application-form Version 2-May 2019	DOC	343.50 KB	07 May, 2019	Download	
Biography	DOCX	12.82 KB	07 May, 2019	Download	
Profile	PPTX	190.76 KB	07 May, 2019	Download	
Graphical Abstract	PPTX	181.91 KB	07 May, 2019	Download	
A1-Checklist-form-May 2019	DOC	90.50 KB	07 May, 2019	Download	
A2-Checklist-form-May 2019	DOC	79.50 KB	07 May, 2019	👼 Download	
code-of-research-ethics	PDF	189.01 KB	07 May, 2019	🗾 Download	
ibc-guidelines	PDF	1.08 MB	07 May, 2019	Download	
malaysia-laboratory-biosafety-biosecurity-policy-and-guideline	PDF	599.04 KB	07 May, 2019	🗾 Download	
UM Safety Handbook	PDF	1.63 MB	07 May, 2019	Download	
um-animal-care-and-use-policy	PDF	1.59 MB	07 May, 2019	Download	
universiti-malaya-policy-and-procedure-on-laboratory-biosafety-and-biosecurity	PDF	676.73 KB	07 May, 2019	👼 Download	



NOTE

- The Programme Leader must ensure all documents in the checklist are submitted.
- Incomplete applications will not be processed.

No.	DETAILS (Please tick ([v])	Programme Leader
1.	A1 Form - Programme Summary	
2.	CV (For the past 5 years and MUST be relevant to the proposed programme) - maximum 5 pages i. Programme Leader & Sub- Programme Leader	
	ii. Co-researcher(s) (Internal & External)	
3.	Biography (maximum 1 page) i. Programme Leader	
	ii. Sub- Programme Leader	
_	Researchers' Profile (maximum 1 page) i. Programme Leader	
4.	ii. Sub- Programme Leader	
5.	Commitment Letter for External Co-Researcher/s (if any)	
6.	Document related to engagement with stakeholder (if any)	
7.	Graphical Abstract (maximum 1 page)- Programme Summary	
8.	Gantt Chart of Research Activities including Milestones- Programme Summary	
9.	Flow Chart of Research Activities - Programme Summary	
10.	Softcopy of proposal-with attachments (Programme & Sub-programme) to PPGP	



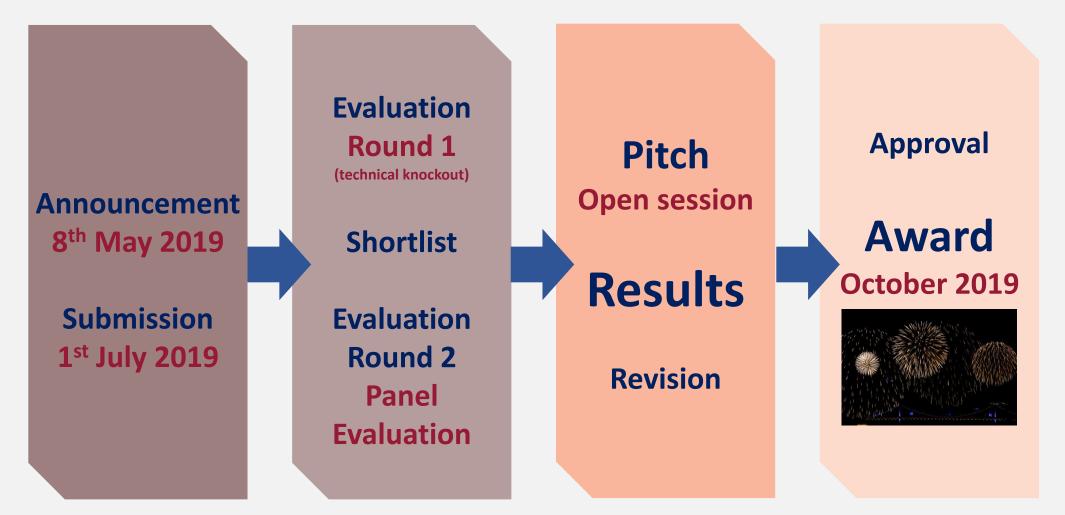
No.	DETAILS (Please tick ([v])	Sub- Programme Leader	PPGP Office
1.	A2 Form- Sub-Programme		
2.	Graphical Abstract (maximum 1 page)- Sub-Programme		
3.	Gantt Chart of Research Activities including Milestones		
4.	Flow Chart of Research Activities		
5.	Justification/ Details of Proposed Budget		

NOTE

1. The Sub-Programme Leader must ensure all documents in the checklist are submitted. **Incomplete applications will not be processed**. 2. Does this research need **BIOSAFETY APPROVAL?** (if yes, proof of submission Notice of Intent [NOI] to IBBC must be submitted prior to proposal evaluation session)

3.Does this research need ETHIC APPROVAL? (if yes and your application is successful, please be reminded that proof of ethics application must be submitted prior to the activation of research account)

FLOW: ANNOUNCEMENT TO AWARD



1st round based on

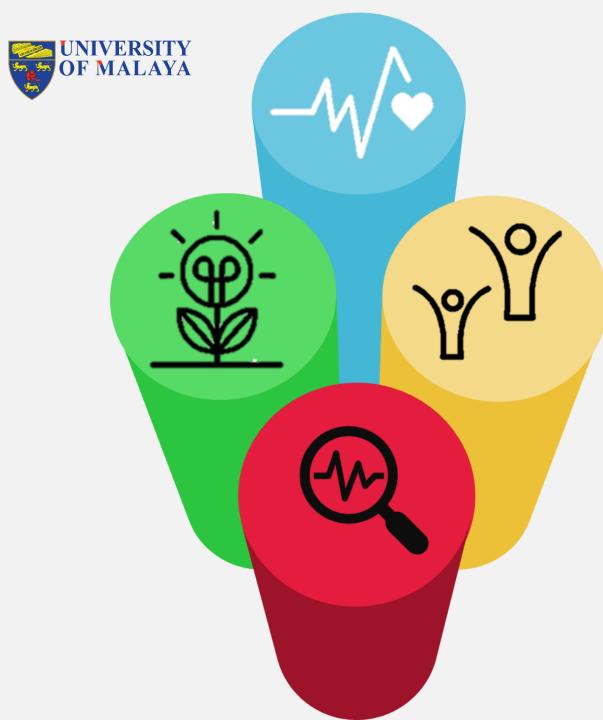
- Executive Summary
- Linkages between subprogrammes
- Quality of Researchers
- Research Impact



INVITATION TO PRE PROPOSAL WORKSHOP – IIRG CYCLE 2/2019

29 May 2019 (Wednesday)	30 May 2019 (Thursday)	12 June 2019 (Wednesday)	13 June 2019 (Thursday)	14 June 2019 (Friday)
8.30 am – 10.00 am	10.00 am – 12.00 pm	10.00 am – 12.00 pm	10.00 am – 12.00 pm	10.00 am – 12.00 pm
Nature-inspired	Cancer	🖵 Energy	Cultural, heritage &	🖵 IR 4.0
Technology (Driving	Active Ageing	Material	civilization	Water & environment
Drug Discovery)	Innovative Health		Behavioral studies	Sustainable living
Curiosity-driven	Mental Well-being		Education for the future	
Fundamental	Lifestyle Diseases		Smart society	
Research				
Venue: Jupiter Meeting Room, Level 4, KPPI	Venue: Banquet Room, Level L, KPPI	Venue: Banquet Room, Level L, KPPI	Venue: The Cube, Level 4, KPPI	Venue: Banquet Room, Level L, KPPI

* The aim of the workshop is to facilitate researchers in preparing proposal for applying IIRG with interdisciplinary elements & research impact.





RESEARCH CLUSTER

Contact us

researchcluster@um.edu.my

+603-79677801/7802/7804/7805/7809

Level7, Research Management & Innovation Complex (RMIC), University of Malaya

https://www.um.edu.my/research-andcommunity/information-for-researchers/researchclusters