



UNIVERSITI KEBANGSAAN MALAYSIA  
*The National University of Malaysia*

**MAJLIS EKSEKUTIF PELAJAR · KOLEJ TUN DR ISMAIL**

**REFERRAL CODE: UKMKTD/261/2/1910/1/1/43**

**DATE: 10 DECEMBER 2019**

**ASSOC. PROF. PISIT PIRIYAPUN**

Dean of Faculty Of Medicine

Burapha University

Through:

**ASSOC. PROF DR. MOHD HANAFI BIN AHMAD DAMANHURI**

Principal of Tun Dr. Ismail Residential College,  
University Kebangsaan Malaysia.

Dear Prof,

**INVITATION TO PARTICIPATE IN INTERVARSITY INNOVATION IN MEDICINE IDEA CHALLENGE (MIIC) 2020**

With all due respect, the Student Executive Council of Tun Dr. Ismail Residence College hereby informs the organization of our event: Intersivity Innovation in Medicine Idea Challenge 2020, with the theme of "Enhancing Life, Excelling in Care". Thus, we would like to proudly invite students from the Faculty Of Medicine of Burapha University to join us as participants in this highly anticipated programme of the year.

**MAJLIS EKSEKUTIF PELAJAR**

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2. Intersarsity Innovation in Medicine Idea Challenge 2020 (MIIC 2020) is an intersarsity programme, aimed to create a platform for undergraduate students from various allied science fields to showcase their talent in brainstorming and innovating ideas that are closely related to the medical field and based on the 4<sup>th</sup> Industrial Revolution. The objective of this program is to encourage students to cultivate ideas to improve upon the current existing innovations in the medical field through technological advancements and creativity and for students to introduce their very own medical device innovation. MIIC 2020 is also organized with the desire of bridging gaps between universities across Malaysia, Singapore and Thailand through innovation and intellectualism.

3. Details of the programme are as follows:

<b>Intersarsity Innovation in Medicine Idea Challenge (MIIC) 2020</b>	
Venue	<b>Lecture Hall 1, Pre-Clinical Block, Faculty of Medicine, University Kebangsaan Malaysia Medical Centre.</b>
Date	<b>22 March 2020 [Sunday]</b>
Time	<b>8.30 am – 5.00 pm</b>
Contact No.	<b>MIIC Director: Thieraporn Phraseart A/P Ma Noon (011-55076414)  Head of Public Relations: Zoey Low Yan Fay (019-8588567)</b>

4. Attached herewith are the tentative, guide book and also the registration link for this programme. Your attention and support towards this program is highly appreciated.

Thank you.

With Regards,

**MAJLIS EKSEKUTIF PELAJAR**

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THIEERAPORN PHRASEART A/P MA NOON

MIIC Director,

Intersarsity Innovation in Medicine Idea Challenge (MIIC) 2020,

Tun Dr Ismail Residential College,

University Kebangsaan Malaysia.

**APPENDIX A**

**PROGRAMME TENTATIVE**

**22 March 2020 (Sunday)**

<b>TIME</b>	<b>CONTENT</b>	<b>LOCATION</b>
8.00 am	Registration Breakfast	Lecture Hall 1, Pre-clinical Building, PPUKM.
8.30 am	Arrival of VIP	
9.00 am	Negaraku & Varsiti Kita	

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9.10 am	<b>VIP Speeches</b>  <b>1. Director of MIIC 2020</b>  Thieeraporn Phraseart A/P Ma Noon  <b>2. Principal of Tun Dr Ismail Residential College</b>  Prof. Madya Dr. Mohd Hanafi Ahmad Damanhuri  <b>3. Vice Canselor UKM</b>  - YBhg. Prof. Ir. Dr. Mohd Hamdi Abd Shukor	
9.35 am	<b>Opening ceremony</b> By: YBhg. Prof. Ir. Dr. Mohd Hamdi Abd Shukor	
9.45 am	Announcement of Top 3 Best YouTube videos	
10.30 am	Preparation for “Booth Pitching”	Lobby, Pre-clinical Building, PPUKM
11.00 am	1 <sup>st</sup> Presentation Session - “Booth Pitching”	
1.00 pm	Lunch  Prayers	
2.00 pm	Results announcement for ‘Booth Pitching’	Lecture Hall 1, Pre-clinical Building, PPUKM.

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2.15pm	2 <sup>nd</sup> Presentation Session - “ Stage Pitching” (by Top 6 teams from “Booth Pitching”)
4.15 pm	Tea break
4.45 pm	Closing Ceremony Prize giving session

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INTERVARSITY INNOVATION IN MEDICINE IDEA CHALLENGE (MIIC) 2020

PERTANDINGAN INOVASI DALAM PERUBATAN INTERVARSITI (MIIC) 2020

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## **Our Warmest Welcome**

Cherished Students and Advisors,

We would like to shine you with our warmest welcome and heartfelt gratitude for your participation in the INTERVARSITY INNOVATION IN MEDICINE IDEA CHALLENGE (MIIC) 2020. It is our honour to be hosting this big of an intervarsity event for all of you in the National University of Malaysia (UKM).

MIIC aims to bring about students and their unlimited reach of brainstorm throughout Malaysia's higher education institutions, through engaging and thrilling pitching contest, to enhance their ability in cross-discipline interaction and cooperation, which will equip them with the essence of future innovators as well as making them a well-furnished, all-rounder leaders. In addition, participants and fellow advisors will be able to understand more about the very crux of the future medical health care advancement and their entitlement as the future apprentices towards this multi-level ultimatum. It serves as a platform to showcase creativity and to acknowledge the extraordinary efforts made by groups in inculcating and innovative approach in the teaching and learning process. When we foster creativity and innovation skills, we are creating a strong foundation for their upcoming future successes. On the contrary, what they will get to vastly explore here may not only be unique to this experience, but also applicable to much greater possibilities and prospects as well as to the ever increasingly interconnected and interdependent world who knew made possible by this splendiferous conjunction of enlightened minds.

We will always remind ourselves that we are hosting a future-fulfilling idea pitching contest with the brightest of minds and talents who are indeed the future innovators and world movers of tomorrow. We will strive to our fullest to provide a truly momentous, enriching and inescapably rewarding experience. Once again, we wholeheartedly welcome you to MIIC 2020 and we look forward to meeting you in this alluring contest for ideas.

The Organizing Committee, MIIC 2020



### **About MIIC 3.0**

#### INTERVARSITY INNOVATION IN MEDICINE IDEA CHALLENGE (MIIC) 2020

This is an intervarsity programme that provides platform and opportunity for creative students to exhibit their core talents in formulating ideas and innovations for medical and health science future betterment.

The programme is based on the concept of pitching, which can be seen in many different field: software feature ideas, implementation strategies, movie screenplays, organizational changes, and business plans, are all pitched from one person to another.

The inspiration of this inaugural programme comes from the pitching contest 100 & Change, which MacArthur Foundation will offer a \$100 million grant to fund a single proposal that will make measurable progress toward solving a critical problem of our time to help make that solution a reality.

Our theme this year is “Enhancing Life, Excelling in Care”. With the advancement of technology and research, medical field is advancing in a rapid rate to provide better service and to produce a healthier nation. We hope that this programme is a platform for creative students from different universities to brainstorm on ways to improve and innovate in the medical field because we are the future game changer.

Coming up with good idea is hard enough, but convincing others to do something with the new idea is much harder. Hence, this programme will not only tests how critical the idea is but also requires the participants to present it in the best way they could. This program will surely trigger our minds towards the endless possibility of the mysterious future of medical field.

## **Theme and Winning Prizes**

THEME: "ENHANCING LIFE, EXCELLING IN CARE"

### WINNING PRIZES:

First Place: RM 3000

First Runner-Up: RM 2000

Second Runner-Up: RM 1000

Consolation Prize: RM 200

## **Rules and Regulations**

In order to foster healthy and fair atmospheres for the competition, participants are expected to conduct themselves in a professional manner at all times. Participants' actions are subject to this standard before, during, and after the intramural event or contest.

### **General Rules:**

#### **1. There will be 3 rounds in this competition.**

- i. Abstract and video submission
- ii. Booth Pitching
- iii. Final Presentation

#### **2. Round 1: Abstract and Video Submission**

- Both abstract and video will be evaluated by our scientific committee.
- The number of 'likes' for each video in Youtube will be calculated as the bonus marks as shown below:

The highest number of likes – 10%,  
followed by the second highest – 8 %,  
followed by the third highest – 5%,  
and the others – 3%

- Participants may submit their abstract to the committee with subject: “Abstract for the **Intersarsity Innovation In Medicine Idea Challenges 2020**”.
- Only the best 12 abstracts will be given an invitation into the second round.
- Participating teams are required to produce one video, of 3 minutes in duration pertaining to the topic chosen.

- The video should be uploaded to YouTube on the given date (refer important dates) and each group will have to share the video and try to get as many likes as possible until the time runs out, as this will contribute to the final cumulative marks.

3. The selected 12 groups will have to pay a registration fee of RM500.00 to the committee's banking account.

#### **4. Round 2: Booth Pitching Rules**

- This is a team-based pitching contest consist of minimum 1 and maximum 4 members per team.

- A poster will be required in the booth pitching.

- In the poster, it should contain:

- i. Idea name
- ii. Problem statement
- iii. Introduction
- iv. Process/mechanism
- v. Function

- The poster have to be printed by the participants and the cost will have to be borne by the respective groups.

- Size of the poster must be A1 size (594 x 841 mm).

- Prototype is optional but will be given extra bonus if available.

- 8 minutes (including Q&A) will be allocated for the booth pitching using the poster and prototype (if available).

5. The best 6 groups from booth pitching will be selected to enter the Final Presentation.

#### **6. Round 3: Final Presentation Rules**

- For each presentation, each group **MUST** only have 15-20 slides and your marks may be deducted if you fail to adhere to the counts of slides recommended.

- In your presentation slides, it should contain:

- i. Problem definition
- ii. User and customer definition

- iii. Product definition
- iv. Innovation
- v. Sustainability
- vi. Potential for social impact

• Marks will be allocated based on the overall presentation, team work and presentation slides.

• Prototype is optional but will be given extra bonus if available.

• 10 minutes will be allocated for the presentation and 8 minutes for Q&A session.

**Rules and Regulations**

**IMPORTANT DATES**

<b>Dates</b>	<b>Events</b>
1 <sup>st</sup> December 2019 - 31 <sup>st</sup> December 2019	Registration
1 <sup>st</sup> January 2020 – 30 <sup>th</sup> January 2020	Abstract Submission
31 <sup>st</sup> January 2020 – 17 <sup>th</sup> February 2020	Abstract Screening
18 <sup>th</sup> February 2020	Abstract Result
19 <sup>th</sup> February 2020 – 1 <sup>st</sup> March 2020	Registration payment, Return of revised abstract, Youtube upload
22 <sup>th</sup> March 2020	MIIC 2020

## **ABSTRACT GUIDELINE**

Summarise your innovative idea in 500 words.

This template provides a unified framework for positioning the abstract for the challenge. Essential issue is to describe briefly the ideas that will be shared at the workshop with proper argumentation regarding their innovation and potential for interdisciplinary breakthrough.

Title (bold, Font: Times New Roman, Font size: 14, double spacing) Author/s name (Font: Times New Roman, Font size: 12 double spacing) Affiliation (Font: Times New Roman, Font size: 12 double spacing)

**ABSTRACT** (Font: Times New Roman, Font size: 12 double spacing)

### **PROBLEM STATEMENT**

The background of the problems and statistical data to support the cause.

### **IDEA/PROPOSE SOLUTION**

Describe ONE idea that can advance radically your research area.

### **TECHNICAL DESCRIPTION/ CONCEPT**

Describe the technologies (scientific, technological, societal, others) that might be achieved in a long-term vision in case your idea is implemented

### **EXPECTED IMPACT/NOVELTY**

Sketch the state-of-the-art and the way your idea challenges current thinking (Avoid incremental refinement of existing approaches, stress on unexpected combinations of insights from various disciplines). Stress on the interdisciplinary aspects if applicable.

### **IMPLEMENTATION STRATEGY**

Briefly present necessary steps to build a project implementing a proof-of-concept demonstrator of your idea, and return of investment plan.

## **Event Highlights**

Time and Date 22 <sup>th</sup> March 2020 (Sunday)	Event	Venue
7.30am – 8.30am	Registration Breakfast	Main lobby, Pre-clinical block
8.30am – 9.15am	Welcoming Speech and Opening Ceremony	DK 1, Pre-clinical block
9.15am – 9.30am	Video Screening (3 best videos)	DK 1, Pre-clinical block
9.30am – 10.00am	Preparation	Main lobby
10.00am – 12.00pm	Round 2: Booth Pitching	Main lobby
12.00pm – 1.30pm	Lunch and Prayers	Main lobby
1.30pm – 2.00pm	Feedback Session Announcement of Winners to Round 3	DK 1, Pre-clinical block
2.00pm – 3.30pm	Round 3: Final Presentation	DK 1, Pre-clinical block
3.30pm – 4.15pm	Closing Ceremony Prize Presentation	DK 1, Pre-clinical block
4.15pm – 4.30pm	Tea Break End	Main lobby

## **Abstract Template Example**

Example of abstract Ice Cream Stick Health-o-meter

Husyari Lonrel (1)\*, Nurul Ida Ahmad (1), Mei Leng Tee (1)\*, Zarina Salmat (2)

(1 ) Department of Emergency Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia (2) Department of Pathology, Faculty of Medicine, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia

\* Corresponding author

### **ABSTRACT**

#### **PROBLEM STATEMENT**

The current medical screening technology is heavily dependent on analysis of serum and blood, or involves the use of ionizing radiation. This can be quite uncomfortable for patient, or will need a large infrastructure to operate. However, screening saliva is gaining popularity in view of its non-invasive and simple nature.

#### **IDEA/ PROPOSE SOLUTION**

This is a proposal to create a nano-structure biosensor apparatus for screening of glucose and cancer biomarkers present in human saliva, to be housed on a hypoallergenic plastic frame in the shape of an ice cream stick.

#### **TECHNICAL DESCRIPTION/ CONCEPT**

The sensor matrix consists of bio-receptor and transducers attached to a microfilament buccal mucosal cell extractor. Patient is supposed to suck on the stick for 1min and has to roll the stick around the oral cavity. Upon completion of this sample harvesting phase, the stick is placed into the analyser unit for analysis.

#### **EXPECTED IMPACT/ NOVELTY**



The sensor matrix is developed using screen-printing technology for easy mass production. This will reduce the cost greatly making it assessable to many people. The sensors are based on current technology and easy to make. Overall, many people will benefit for health screening without having to go through the painful blood taking and at risk of radiological exposure.

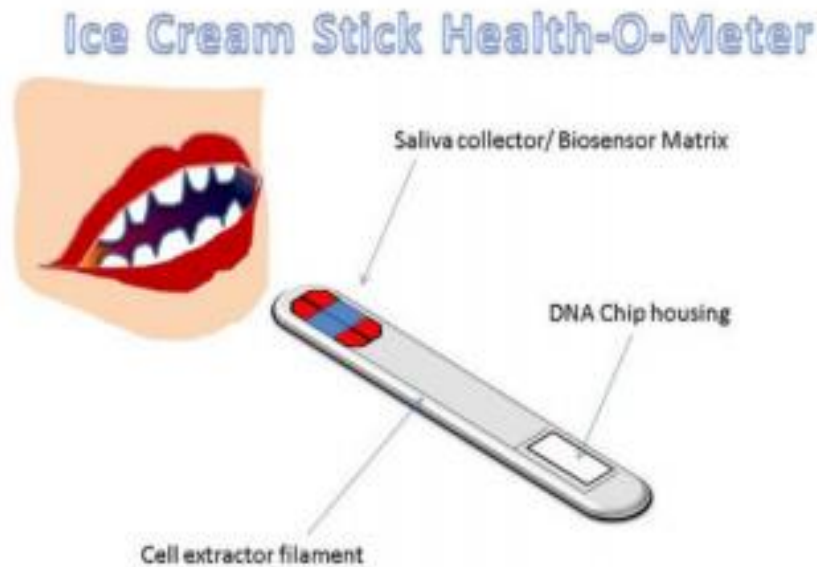
### **IMPLEMENTATION STRATEGY**

The proof-of-concept prototype development expected to take around 6 months time, with the use of 3D printing technology. Validation of the technical performance will take

1 year. Overall cost from bench-to marketable device required the investment of RM1.5 Million the expected return of investment within 3 years after commercialization.

### **Abstract Template Example**

### **Figure**



**Person in Charge**

Zoey Low Yan Fay (019-8588567)

Thieeraporn Phraseart A/P Ma Noon (011-55076414)

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