

MELAKA
INTERNATIONAL
INTELLECTUAL EXPOSITION

MIIEX'24

12 JUNE '24

Dewan Taming Sari,
Universiti Teknologi MARA Caw. Melaka,
Kampus Alor Gajah, Melaka

*"Empowerment of Special
Needs through Invention
& Innovation"*

**EXTENDED
ABSTRACT**

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

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UiTM Cawangan Melaka

KM26 Jalan Lendu,

78000 Alor Gajah

Melaka Bandaraya Bersejarah

Website: <https://vmiex.uitm.edu.my/>

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

EDITORS AND COMPILERS:

Dr Maimunah Johari

Puan Norlinda Tendot Abu Bakar

Puan Maymunah Ismail

Puan Nor Halawah Ahmad

Cik Afzan Shahilla Amir Hamzah

Puan Azira Rahim

COVER DESIGN:

Rashidy Samsudin

Wan Nur Khalisah Shamsudin

Ridzuan Adli bin Azidin

PUBLISHED BY:

UiTM Cawangan Melaka

KM26 Jalan Lendu,

78000 Alor Gajah

Melaka Bandaraya Bersejarah

Tel: +606-5582094 / 2190 / 2113

eISBN: 978-967-2846-81-9

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FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umami Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah

Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

**FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY,
INNOVATION AND DIGITAL COMMUNICATIONS**



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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PROJECT DIRECTOR	DR ZULKEFLI BIN MUHAMAD HANAPIYAH
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	TUAN MUHAMMAD IDRIS IRFAN BIN TUAN MOHD AZAHAR
	RASEEDA BINTI HAMZAH
	TS. DR. NOR AFIRDAUS BINTI ZAINAL ABIDIN
DESIGN & MULTIMEDIA	EN RASHIDY SAMSUDIN
	RIDZUAN ADLI BIN AZIDIN
	WAN NUR KHALISAH SHAMSUDIN
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	DR NORASHIKIN ADAM
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	PN MAYMUNAH ISMAIL
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	NORLINDA TENDOT ABU BAKAR
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	MOHD SUFIAN AB KADIR
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	ERRATUL SHELA ESHAK
	NUR FAITHZAH JAMIAN

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TECHNICAL & VENUE	EN MAZ IZUAN BIN MAZALAN
	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'

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Spreading The Knowledge: Approaching The Oblivious About High Sensory Inputs

(Lu'Vendr Perfume)

Zulhairi Samsul Ridzuan¹, Balqis Rosnizam², Alya Maizal³, Najwa Eddy Rendra⁴, Najwa Abdul Karim⁵, Joeaiza Juhari⁶

^{1,2,3,4,5,6}Faculty of Business and Management, UiTM Melaka

zulhairisamsulridzuan@gmail.com (corresponding author)

Abstract

In this project, we are using this opportunity to approach those who oblivious specifically about the Autism Spectrum Disorder (ASD) and Attention Deficit Hyperactivity Disorder (ADHD) awareness while we are foster the understanding to create more inclusive and supportive communities for individuals with these conditions. The awareness is crucial as most of cases were delayed diagnosed because of lack of parental awareness, cultural influences etc (Jayanath & Ozonoff, 2020). As a result, they suffered from the effects in adulthood because of communication barriers, lack of self-awareness and lack of emotional decision-making. For that reason, this movement need strategies in approaching to have a clear two-way communication and patience as they can express different perspectives or resistant to acknowledge new information.

Keywords: Opportunity, Awareness, Delayed Diagnosed, Strategies

1. INTRODUCTION

Autism Spectrum Disorder (ASD) is a developmental disability caused by differences in the brain (Centers for Disease Control and Prevention, 2022). A person with ADHD may find it hard to pay attention and control their impulsive behaviours or may be overactive. However, children with ASD are more likely to have ADHD as a coexisting condition than children without ASD. According to CHADD, it is estimated that a quarter of children with ADHD also exhibit low-level signs of Autism Spectrum Disorder, such as a difficulty with social skills or sensitivity to clothing textures.

Crafting a fine fragrance involves a delicate balance of top, middle, and base notes. Aromatherapists, also known as perfumers, create scents that elicit emotions, memories, and atmospheres by blending essential oils, aroma compounds, and fixatives. It is important to note that each family of fragrances have its own distinctive scent profile and evokes different emotions and events. From classic perfumes to niche fragrances, the market offers a diverse range of options catering to various demographics and tastes.

2. OBJECTIVES

Our objectives are to spread knowledge about those who have been diagnosed with ASD and ADHD who suffered from high sensory sensitivity. It is a situation where these people are way more sensitive than normal person in a certain environment such as sounds, lights, or smells. Therefore, when stressful events occurred, these people tend to have a meltdown which an intense response to an overwhelm situation that can be expressed physically or verbally. There are many ways to calm them during meltdown which is get them to a safe place, find them sensory tools to comfort them or therapeutic approaches. These ways can help to calm them temporarily as long as they were out of stressful environments.

In Lu'Vendr perfume, we are bound to explores the latest developments in the field of scent therapy, which is designed to provide a relaxing and anxiety-reducing experience to meet the special needs of people with ASD and ADHD. The study investigates the potential medicinal properties of a particular scent that is created specifically to promote a sense of calm, balance, and an emotional sense of well-being in these people. Our products consist of ingredients that can be therapeutic such as lavender oil, chamomile oil and sandalwood oil (Tobik, 2023). These ingredients are designed to calm people with ASD, ADHD and also those who suffered from anxiety. Other than that, we are ensuring our consumers that our products serve the long-lasting effect, creativity, and customer satisfaction while solving tantrum or meltdown issue.

3. NOVELTY & INVENTIVENESS

Lu'Vendr Perfume is one of among brands to have developed products that give an assist in handling people who is in a meltdown moment. It is because our products primarily focus to provide calm and comfort from sensory overload that triggered feelings of panic, anxiety, or distress. Meltdown situation can be occurred anytime as it involved current surroundings that

be a factor to the individual. This situation not only caused stress to those who suffered yet also those who is around them to help the situation. Other than that, one of our product's features was it was designed in a pocket-sized bottle that are suited to carry around in a purse or bag whenever the consumers need especially in emergency situations.

4. PRACTICALITY & USEFULLNESS

This innovative was created not only to spread the knowledge among the society about ASD or ADHD but also to inform that during the meltdown or tantrum moment, not all can be on utmost patience dealing with it. Hence, this innovative calming perfume is developed to help people who has been diagnosed through behavioural challenges by reduce such as anxiety, hyperactivity, and sensory overload. It is very easy to use this calming perfume, all you need to do is to just spray at back of your hand, on your neck or wherever spot you like the most. This innovation can improve the quality of life for those who suffer neurodevelopmental condition by provide relaxation and mental balance.

5. CONCLUSION

Lu'Vendr Perfume is achieving our goals to spread the information about autism spectrum disorder (ASD) and Attention Deficit Hyperactivity Disorder (ADHD) to the society as we value this opportunity to educate people about this condition. Therefore, we create this calming perfume to helps people in needs especially parents who face this situation of tantrum moment or the meltdown. It is our duty to raise awareness to the society to reduce any stigma, face discrimination that can cause them to isolate themselves from the social society (Hofman, 2023). Thus, our perfume indicates to gives an aromatherapy to the individual who is in sensory overload for a moment to calm down and lower the stress which triggers sensory stimulation due to environment factors. Our hope in this project is to bring the community together to helps and prevent the frequency of meltdown and tantrum.

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