

## CURRICULUM VITAE



Seri Narti Edayu Sarchio  
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 Department Biomedical Sciences  
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### Education

Certificate / Qualification obtained:	Name of School / Institution:	Year obtained:	Area of Specialization:
PhD	University of Sydney, NSW, Australia	2014	Immunology, Cancer, Dermatology, Cell Signaling
Master	Curtin University of Technology, WA, Australia	2009	Infectious Diseases
Bachelor	Universiti Putra Malaysia, Serdang, Malaysia	2004	Biomedical Science
Diploma	Universiti Putra Malaysia, Serdang, Malaysia	2001	Animal Health and Production

### Areas of Interest

1. Immunology & Microbiology
2. Wound healing / Anti-inflammatory
3. Cell Signaling
4. Nanotechnology

### Professional Qualification/ Membership/ Affiliation

1. Golden Key International Honour Society
2. Fellowship CEO@Faculty Programme 2.0

### Appointments (Inside and Outside UPM)

Date	Designation	Remarks
2023-2025	Exco Scientific (Co-Opt), MyBiomed Malaysia	
2020- present	Alumni Coordinator, Department of Biomedical Science, FMHS, UPM	
2019-2020	Program Coordinator Bachelor of Biomedical Science program	

### Publications

#### Journals (in 5 years)

1. Shamsi, Suhaili; **Sarchio, Seri Narti Edayu** & Md Yasin, Faizah. **2024**. Synthesis, Characterization, Stability of NanoGraphene Oxide Functionalized with Pluronic (NanoGO-PF), and Its Biocompatibility Study in Zebrafish Embryos for Delivery of Hydrophobic Compound. Malaysian Journal of Medicine & Health Sciences. Vol 20, p41

2. Iqbal RM, Binti Riza Effendi NI, Syed Alwi SS, Saidi HI, **Sarchio SNE. 2023.** Insomnia and depression levels among Malaysian undergraduate students in the Faculty of Medicine and Health Sciences (FMHS), Universiti Putra Malaysia (UPM) during Movement Control Order (MCO). PLoS ONE 18(10): e0283098. <https://doi.org/10.1371/journal.pone.0283098>
3. Shamsi S, Abdul Ghafor AAH, Norjoshukrudin NH, Ng IMJ, Abdullah SNS, **Sarchio SNE**, Md Yasin F, Abd Gani S, Mohd Desa MN. **2022.** Stability, Toxicity, and Antibacterial Potential of Gallic Acid-Loaded Graphene Oxide (GAGO) Against Methicillin-Resistant *Staphylococcus aureus* (MRSA) Strains. Int J Nanomedicine. 2022 Nov 30;17:5781-5807. doi: 10.2147/IJN.S369373
4. Abdullah SNS, Subramaniam KA, Muhamad Zamani ZH, **Sarchio SNE**, Md Yasin F, Shamsi S. **2022.** Biocompatibility Study of Curcumin-Loaded Pluronic F127 Nanoformulation (NanoCUR) against the Embryonic Development of Zebrafish (*Danio rerio*). Molecules. 2022; 27(14):4493. <https://doi.org/10.3390/molecules27144493>
5. Siti Nur Sharmila Abdullah, Zahir Haizat Muhamad Zamani, Kalai Arasu Subramaniam, **Seri Narti Edayu Sarchio**, Faizah Md Yasin, Suhaili Shamsi. **2022.** Preparation and Characterization of Curcumin-Loaded Pluronic Nanoformulation (NanoCUR) for Wound Healing Application and its Toxicity Profile. Malaysian Journal of Medicine and Health Sciences, Vol. 18, Supp 1: 47.
6. Nur Fatin Zalikha Zailan, **Seri Narti Edayu Sarchio**, Masriana Hassan. **2022.** Evaluation of Phytochemical Composition, Antioxidant and antiDiabetic Activities of *Mitragyna speciosa* Methanolic Extract (MSME). Mal J Med Health Sci 18(SUPP21): 92-99.
7. Manraj Singh Cheema, Sharifah Sakinah Syed Alwi, Nur Fariesha Md Hashim, Zulkefley Othman, **Seri Narti Edayu Sarchio**, Liew Chin Teng, Sarva Mangala Praveena. **2022.** Teaching and Learning of Biosciences in a Digital World: Challenges and Effective Teaching Strategies During and After Covid-19 Pandemic. Mal J Med Health Sci 18(SUPP14): 144-152.
8. Manraj Singh Cheema, Zulkefley Othman, **Seri Narti Edayu Sarchio**, Sharifah Sakinah Syed Alwi, Nur Fariesha Md Hashim, Liew Chin Teng, Sarva Mangala Praveena. **2022.** A Wake-up Call: Covid-19 and Its Impact on Reforming Biosciences Education Towards Resiliency and Sustainability. Mal J Med Health Sci 18(SUPP14):120-130.
9. NI Zulkiflee, NM Azis, MNM Desa, N Mohtarrudin, SSS Alwi, **\*SNE Sarchio. 2021.** Assessment of Pathogenicity of Community-Acquired MRSA Isolates in Mice-Induced Peritonitis. Mal J Med Health Sci 17(3): 8-15.
10. Nurhuda Elias, Suhaili Shamsi, **Seri Narti Edayu Sarchio**, Faizah Md Yasin, Shafinaz Abd Gani, Md Nasir Mohd Desa. **2021.** Assessment of the Anti-Bacterial Activity of a Simple Nanoformulation, Gallic Acid Loaded Graphene Oxide (GAGO) Against Methicillin Resistant *Staphylococcus aureus* (MRSA) strains. Malaysian Journal of Medicine and Health Sciences, Vol. 18, Supp 1: 31.
11. NFZ Zailan, N Jaganathan, T Sandramuti, **SNE Sarchio**, M Hassan. **2020.** Inhibition of GSK-3 by Tideglusib Suppresses Activated Macrophages and Inflammatory Responses in Lipopolysaccharide-Stimulated RAW 264.7 Cell Line. Malaysian J. Med. Health Sci 16, 2-8.
12. S Shamsi, AA Alagan, **SNE Sarchio**, FM Yasin. **2020.** Synthesis, Characterization, and Toxicity Assessment of Pluronic F127-Functionalized Graphene Oxide on The Embryonic Development of Zebrafish (*Danio rerio*). International Journal of Nanomedicine 15, 8311.
13. Abdul Ghafor, Ahmad Ashrafu Hadi and Elias, Nurhuda and Shamsi, Suhaili and Md. Yasin, Faizah and Sarchio, **\*Seri Narti Edayu. 2020.** Toxicity Assessment of Gallic Acid Loaded Graphene Oxide (GAGO) Nano-Formulation in Zebrafish (*Danio rerio*) Embryos. Pertanika Journal of Science & Technology, 28 (1). pp. 311-326. ISSN 0128-7680; ESSN: 2231-8526.

### Conference Proceedings (in 5 years)

1. **Seri Narti Edayu Sarchio\***, Nur Liyana Daud, Suhaili Shamsi, Elysha Nur Ismail & Nurshahira Sulaiman. **2024**. Assessment of antibacterial activity of Moringa oleifera leaf extract (MOLE) against Staphylococcus aureus. 34th MACB Annual Conference in Collaboration with 2nd MYBIOMED Symposium 2024. Royale Chulan, Kuala Lumpur. (Poster)
2. Intan Nurzulaikha Abdul Zahid, Suhaili Shamsi, Elysha Nur Ismail & **Seri Narti Edayu Sarchio\***. **2024**. Toxicity Assessment of Moringa oleifera Leaf Extract (MOLE) Using Zebrafish (*Danio rerio*) Model. The 14th Malaysian Symposium of Biomedical Sciences 2024. Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor, Malaysia. (Poster)
3. Nur Liyana Daud, Suhaili Shamsi, Elysha Nur Ismail & Nurshahira Sulaiman & **Seri Narti Edayu Sarchio\***. **2024** Antibacterial activities of moringa oleifera leaf extract (MOLE) against methicillin-resistant staphylococcus aureus (MRSA) and methicillin-susceptible staphylococcus aureus (MSSA): A prelude to nanoencapsulation studies. The 14th Malaysian Symposium of Biomedical Sciences 2024. Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor, Malaysia (Poster)
4. Awatif Azhari, Suhaili Shamsi, Faizah Md Yasin, Sharifah Sakinah Syed Alwi & **Seri Narti Edayu Sarchio\***. **2021**. Functionalized gallic acid-loaded graphene oxide (GAGO) accelerates wound healing in in vivo mode. Proceedings of the Asian Conference on Biomedical Research and Laboratory Medicine 2021, 24 – 25 August 2021. Life Sciences, Medicine and Biomedicine. Page 75. (Poster)
5. Nurhuda Elias, Suhaili Shamsi, **Seri Narti Edayu Sarchio**, Faizah Md Yasin, Shafinaz Abd Gani & Mohd Nasir Mohd Desa. **2021**. Anti-bacterial potential of gallic-acid loaded (GAGO) nanocomposites on Staphylococcus aureus strains in International Congress of the Malaysian Society for Microbiology (ICMSM2021) 29-30 September 2021. (Oral)
6. Shamsi, S; Alagan, A.A.; **Sarchio, S.N.E.**, Md Yasin, F. **2020** Synthesis, characterization and toxicity assessment of Pluronic-functionalized graphene oxide on Zebrafish embryos in Global Virtual Summit on Materials Science and Engineering (Oral).
7. Ahmad Ashraful Hadi Abdul Ghafor, Nurhuda Elias, Suhaili Shamsi, Faizah Md Yassin & **Seri Narti Edayu Sarchio\***. **2019**. Toxicity Assessment of Gallic Acid Loaded Graphene Oxide (GAGO) Nano-Formulation in Zebrafish (*Danio rerio*) Embryos. The 7th International Symposium on Applied Engineering and Sciences (SAES2019). Faculty Engineering Universiti Putra Malaysia, Selangor, Malaysia. November 11-12. Oral presentation BM-18. Program page: 17. (Oral)
8. Shamsi, S; Alagan, A.A.; **Sarchio, S.N.E.**, Md Yasin, F. **2019**. Toxicity Assessment of Graphene Oxide on Zebrafish (*Danio rerio*) Embryos. The 7th International Symposium on Applied Engineering and Sciences (SAES 2019), Serdang, Selangor, Malaysia. (Oral)

### Books (If any)

1. Sharifah Sakinah Syed Alwi, **Seri Narti Edayu Sarchio**, Mohd Firdaus Ismail, Henna Roshini Alexander, Latifah Saiful Yazan. **2021**. Scientific Evidence: Malaysian Medicinal Plants with Wound Healing Properties. UPM Press. ISBN 978-967-2989-07-3.
2. **Seri Narti Edayu Sarchio** et al. **2021**. Strengthening Government-Uni-Industry-Community Collaboration. Penerbit UMT. ISBN 978-967-2939-63-4.
3. **Seri Narti Edayu Sarchio** et al. Gen, Inovasi Kehidupan! **2021**. Akademik Sains Malaysia. ISBN 978-983-2915-53-9.

### Chapter in Books (If any)

1. **Seri Narti Edayu Sarchio**. **2023**. - A Colourful journey PhD: The Amazing Journey. Volume 2. Universiti Malaysia Pahang. ISBN 9789672831792. Page [151-162].
2. **Seri Narti Edayu Sarchio**. **2021**. Siri 1 - A Man with Clear Vision. Rising Above Crisis in Turbulent Times. UTeM Press. ISBN 9789672454694. Page [153-162].



3. Puebla-Osorio N., **Sarchio S.N.E.**, Ullrich S.E., Byrne S.N. **2017** Detection of Infiltrating Mast Cells Using a Modified Toluidine Blue Staining. In: Rittié L. (eds) *Fibrosis. Methods in Molecular Biology*, vol 1627. Humana Press, New York, NY.
4. **Sarchio, S.N.E. 2013.** Antagonising the CXCL12 pathway with AMD3100 inhibits skin cancer. PhD Thesis.

#### Popular writing (If any)

1. **Seri Narti Edayu Sarchio.** Sakit otot, lepuh kulit disertai demam petanda mpox, jangan ambil remeh. *Berita Harian*. 21 Ogos **2024**.
2. **Seri Narti Edayu Sarchio.** MyBrain 2.0 perkasa generasi intelektual berkemahiran tinggi. *Berita Harian*. **2023**.
3. **Seri Narti Edayu Sarchio.** Teknologi mRNA Hasilkan Vaksin Berkesan, Selamat. *Berita Harian*, Mac 4, **2021**.
4. **Seri Narti Edayu Sarchio.** Kesan Sampingan Bukan Indikator Mutlak Vaksin Tak Selamat. *Berita Harian*, Disember 25, **2020**.
5. **Seri Narti Edayu Sarchio.** 'Imuniti Kelompok' Kawal, Putuskan Rantaian Jangkitan. *Berita Harian*, Disember 3, **2020**.
6. **Seri Narti Edayu Sarchio.** Sistem Imun Lawan COVID-19. *Berita Harian*, November 28, **2020**.
7. **Seri Narti Edayu Sarchio.** Aplikasi Kesihatan Digital Pantau Pesakit Kronik - *Berita Harian*, Jun 22, **2020**.

#### Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1	Curcumin loaded graphene oxide (CUR-GO) nanoformulation to overcome multidrug resistance in methicillin-resistance <i>Staphylococcus aureus</i> (MRSA) for enhanced anti-bacterial efficacy in vitro and in vivo.		2019-2021	MOE (FRGS)
2	Screening of <i>Mitragyna Speciosa extract</i> for in vitro anti-diabetic, anti-inflammatory and wound healing properties	15K	2019-2021	Universiti Putra Malaysia (IPS)
3	Modulation of inflammatory and oxidative stress status of TQNLN in accelerating the diabetic wound healing	120K	2019-2021	Universiti Putra Malaysia (IPS)
4	Mechanistic insights of curcumin loaded graphene oxide nano-formulation in accelerating diabetic-wound closure	99K	2017-2020	MOE (FRGS)
5	Development of gallic acid loaded graphene oxide (GAGO) to overcome multidrug resistance in methicillin-resistance <i>Staphylococcus aureus</i> (MRSA) for enhanced anti-bacterial efficacy	25K	2018-2020	Universiti Putra Malaysia (IPS)
6	Toxicity and oxidative stress assessments of gallic acid loaded graphene oxide (GAGO) in Zebrafish embryo	15K	2019-2021	Universiti Putra Malaysia (IPS)



7	Development, characterization and biological properties of functionalized curcumin-loaded graphene oxide nanoparticles for wound healing	55K	2016-2018	Universiti Putra Malaysia (Putra grant)
8	<i>In Vitro</i> Assessment of <i>Staphylococcus aureus</i> Genotypes on Immune Response in Bone Marrow-Derived Mast Cells	60K	2015-2018	Universiti Putra Malaysia (Putra grant)

Awards/ Recognition (Current)				
No.	Name of awards	Award Authority	Award Type	Year
1.	Best Poster	The 14th Malaysian Symposium of Biomedical Sciences 2024	3 <sup>rd</sup> place <i>Antibacterial activities of moringa oleifera leaf extract (MOLE) against methicillin-resistant staphylococcus aureus (MRSA) and methicillin-susceptible staphylococcus aureus (MSSA): A prelude to nanoencapsulation studies</i>	2024
2.	Anugerah Buku Negara 2022	Pusat Penerbit UPM	Buku Sains dan Teknologi Terbaik <i>Scientific Evidence: Malaysian Medicinal Plants with Wound Healing Properties</i>	2022
3.	The International Putra InnoCreative Poster Competition	International Putra InnoCreative Carnival in Teaching and Learning 2020	Gold <i>Who killed manitaraj (WKM)? A scientific inquiry-based learning implementing forensic science in primary, secondary and tertiary education</i>	2020
4.	CEO@Faculty 2.0 Programme	Kementerian Pengajian Tinggi	Fellowship	2020

Professional Services/ Consultation			
No.	Year	Title	Authority
1.	2024	Life Sciences, Medicine and Biomedicine	Editor board – special issue
2	2024	The Malaysian Journal of Medicine and Health Sciences (MJMHS)	Reviewer
3	2024	Pertanika Journal of Tropical Agricultural Science (JTAS)	Reviewer
4	2021	Life Sciences, Medicine and Biomedicine	Editor board – special issue

Student Supervision			
Master with Thesis (Main Supervisor)			
No.	Name	Title	Status
1.	Nur Izzatie Zulkiflee	Assessment of Pathogenicity of Community-Acquired MRSA Isolates in Mice-Induced Peritonitis	Graduated
2	Ahmad Ashraful Hadi Abdul Ghafor	Toxicity assessment of gallic acid loaded graphene oxide (GAGO) nano-formulation in zebrafish ( <i>Danio rerio</i> ) embryos	Graduated
3.	Awatif Azahri	Gallic acid-loaded graphene oxide (GAGO) accelerates wound Healing in in vitro and in vivo full-thickness excision wound model	Graduated



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| 4. | Amira Liyana Abd Manap | Wound healing properties of gallic acid loaded graphene oxide (GAGO) nano-formulation in Diabetic-Induced Rats   | On-going |
| 5. | Nur Liyana Daud        | Development of Nanoencapsulated Moringa oleifera Leaf Extract (nanoMOLE) as Potential Anti-bacterial Agent against methicillin-resistance Staphylococcus aureus (MRSA) | On-going |

**Attended Seminars/ Workshops/ Forums both National and International**

No.	Year	Title	Organizers
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