

Personal Details	<b>GEETHAA A/P SAHGAL</b>
Academic Qualifications	BSc. (Hons) Biotechnology (AIMST University) MSc. Pharmacology (Universiti Sains Malaysia) PhD. Molecular Medicine (Universiti Sains Malaysia)
Administrative Duties	<ol style="list-style-type: none"> <li>1. Appointed as Assistant Batch Coordinator for Batch 2016</li> <li>2. Course Coordinator for Microbiology PPTC 6410301 Academic Session September: 2020/2021; 2019/2020; 2018/2019</li> <li>3. Course Coordinator for Immunology PPTC 6410302 Academic Section February: 2019/2020; 2018/2019</li> <li>4. Course Coordinator for Pharmaceutical Biotechnology Academic Section October 2020/2021</li> <li>5. Assistant Course Coordinator for Cosmetic &amp; Toiletries Academic Session September: 2020/2021; 2019/2020</li> <li>6. Assistant Course Coordinator for Pharmaceutical Technology Academic Section February: 2019/2020</li> <li>7. Member in Continuous Professional Development (CPD)</li> <li>8. Representative for FOP Marketing Activities</li> <li>9. Secretary in Students affair committee</li> <li>10. Member in Faculty Examination Committee</li> <li>11. Member in Faculty Board</li> <li>12. Member in Curriculum &amp; MOOC review committee</li> </ol>
Publications (last 5 years)	<p><b>2020</b></p> <ol style="list-style-type: none"> <li>1. Jeevandran S., Geethaa S., Jin Yi W., Wei Yuan S., Parasuraman S., Sundram K. Insignificant antidiabetic activities of ethanolic extracts of seeds of <i>Archidendron pauciflorum</i>. <i>Journal of Pharmaceutical Negative Results</i>. 2020; 11 (1): 47.</li> <li>2. Chin Theng N., Geethaa S., Pandian P.S., Sherly D., Mohamed Asem M.A., Dharmaraj T. Antioxidant and anti-inflammatory properties of <i>Nyctanthes arbor-tristis</i> leaf extracts. <i>Pharmacognosy Magazine</i>. (submitted)</li> </ol> <p><b>2019</b></p> <ol style="list-style-type: none"> <li>1. Antimicrobial activity of <i>Nigella sativa</i> seeds and rhizomes of <i>Curcuma longa</i> extracts with focus on its synergistic effect. Madhavan Pillay, Jeevandran Sundarasekar, Fazlina Mustafa, Geethaa Sahgal. (2019). 1st Aimst International Pharmacy Conference (AIPC), Aimst University, 30th to 1st December 2019.</li> <li>2. Evaluation of antidiabetic activity of ethanolic extract of the seeds of <i>Archidendron pauciflorum</i>. (2019). Jeevandran Sundarasekar, Geethaa Sahgal, Subramani Parasuraman, Sundram Karupiah. 1st Aimst International Pharmacy Conference (AIPC), Aimst University, 30th to 1st December 2019.</li> <li>3. Evaluation of wound healing activity of ethanolic extract of the seeds of <i>Archidendron pauciflorum</i>. (2019). Jeevandran Sundarasekar, Geethaa Sahgal, Subramani Parasuraman, Sundram Karupiah. 1st Aimst International Pharmacy Conference (AIPC), Aimst University, 30th to 1st December 2019.</li> </ol>

4. Lim Chia Chia, Fazlina Mustaffa, Geethaa Sahgal (2019). Antioxidant, antimicrobial and sun protection factor (SPF) determination of *Phyllanthus acidus*. 25th July 2019. 3rd Kedah Research Summit. Cinta Sayang Resort.

#### **2018**

5. Geethaa Sahgal, Jeevandran Sundarasekar, Sreeramanan Subramaniam. Brine Shrimp cytotoxicity activity for different parts of *Hymenocallis littoralis*. *Rapports De Pharmacie*. Vol 3(4). 2018. 423-428.
6. Jeevandran Sundarasekar, Geethaa Sahgal, Vikneswaran Murugaiyah, Lam Kit Lay, Ong Ming Thong, Sreeramanan Subramaniam. Wound healing activity of *Hymenocallis littoralis* - Moving beyond ornamental plant. *Pakistan Journal of Pharmaceutical Sciences*, Vol. 31 (6), 2018, 2537-2543.
7. Chua Yee Tyan, Lavanya Radhakrishnan, Fazlina Mustaffa, Geethaa Sahgal. Antioxidant antimicrobial, and SPF protective activity of *Cucurbita moschata*, *cucurbita reticulata* and *Clitoria ternatea*. *Rapports De Pharmacie*, Vol.4 (3), (2018), 488-491.
8. Lim Chia Chia, Fazlina Mustaffa, Geethaa Sahgal. Antioxidant antimicrobial and sun protection factor determination of *Phyllanthus acidus*. *Rapports De Pharmacie* Vol.4 (2), 2018, 457-461.
9. Jeevandran Sundrasekar, Geethaa Sahgal, Fazlina Mustaffa and Xavier Ratnam. Phytochemical essences of four hybrid flower *Plumeria acuminata* in polar and non-polar solvents extract. *Rapports De Pharmacie* Vol.4 (4), 2018, 500-504.

#### **2017**

10. Geethaa Sahgal, Jeevandran Sundrasekar and Sreeramanan Subramaniam. Brine shrimp cytotoxicity activity for different parts of *Hymenocallis littoralis*. *Rapports De Pharmacie*, Vol.3 (4), 2017, 423-428.
11. Siti Nor Qurratu Aini Abd Aziz, Rabiatal Adawiyah Kamazahruman, Srimala Sreekantan, Ming-thong Ong, Geethaa Sahgal, Swee-Yong Pung (2017). Effect of deposition temperature on the growth of tungsten oxide layer deposited on polyethylene terephthalate fibers. *Advances in Material & Processing Technologies Conference, Precedia Engineering*, 184: 695-707.
12. Sundarasekar, J., Sahgal, G., Geethaa Sahgal, M.T. Ong, Vikneswaran Murugaiyah. (2017) *Nepenthes gracilis* pitcher pot fluid fractions' anti-proliferation effects on MDA-MB231 cell line via ER- $\alpha$ 36 signaling pathway. 2017. 2nd International Molecular diagnostics Biomarker Discovery (MDBD1017), University Sains Malaysia, Penang. 2-4 May 2017.

#### **2016**

13. Abd Aziz Siti Nor Qurratu Aini, Rabiatal Adawiyah Kamazahruman, S. Y. Pung, Srimala Sreekantan, Ming-Thong Ong, Geethaa Sahgal. (2016). Effect of sodium tungstate dehydrate concentration on the growth of tungsten oxide layer grown on polyethylene terephthalate fiber and its photocatalytic in removal of RhB dye under visible light irradiation. *Proceeding of the 3rd International Conference of Global Network for Innovative Technology 2016 (3rd IGNITE-2016)*.

On-going Research	<p><b>2020/2021 Year 3 Research Project</b></p> <ol style="list-style-type: none"> <li>1. Evaluation of phytochemical constituents and antioxidant potential of <i>Melastoma malabatricum</i> leaf and root extracts.</li> <li>2. Evaluation of anticancer and <i>in vitro</i> wound healing activities of <i>Melastoma malabatricum</i> leaf and root extracts.</li> <li>3. Synergetic effects of <i>Nigella sativa</i> and <i>Curcuma longa</i> against Anti-Candida activities</li> </ol> <p><b>FRGS</b> Investigation on male contraception activity of <i>Hibiscus rosasinensis</i> Extracts-Molecular Insights.</p>
Completed Research	<p><b>Supervisor</b></p> <p>2017/2018 Year 3, Research Project</p> <ol style="list-style-type: none"> <li>a. Antioxidant and Phytochemical Activities on Green and Oolong Tea</li> <li>b. Antioxidant Properties of Chamomile Tea and Sabah Black Tea</li> </ol> <p>2018/2019 Year 3, Research Project</p> <ol style="list-style-type: none"> <li>c. Synergetic effects of <i>Nigella sativa</i> and <i>Curcuma longa</i> against antimicrobial activities.</li> <li>d. Antimicrobial activity of formulated erythromycin against selected infectious bacteria.</li> <li>e. Antimicrobial activity of formulated ciprofloxacin against selected infectious bacteria.</li> </ol> <p>2019/2020 Year 3, Research Project</p> <ol style="list-style-type: none"> <li>f. Evaluation of anti-MRSA mechanism activity from selected plant extracts</li> <li>g. Evaluation of anti-Candida mechanism activity from selected plant extracts</li> </ol> <p><b>Co-Supervisor</b></p> <p>2018/2019 Year 3, Research Project</p> <ol style="list-style-type: none"> <li>h. Antifungal and wound healing activities of miconazole formulation</li> <li>i. Antifungal and wound healing activities of ketoconazole formulation</li> </ol>
Research Grants	<p><b>FRGS</b> Investigation on male contraception activity of Hibiscus Rosasinensis Extracts-Molecular Insights.</p>
Supervision	<p><u>MSc. Medical Physiology</u></p> <ol style="list-style-type: none"> <li>1. Name of Student: Dr. Dharma Raj Tanimale Research Title: "Investigation of the effect of Nyctanthes arbor-tristis extract on high glucose-induced vascular permeability." Level of Candidature: MSC. Medical Physiology Individual/joint: Co-Supervisor Level of Progress: Completed (2020)</li> </ol> <p><u>BSc. Biotechnology</u></p> <ol style="list-style-type: none"> <li>2. Name of Student: Reshvaanie Rajandran Research Title: Evaluation of Antimicrobil activity of wild type and commercially available Terminalia chebula powder extracts</li> </ol>

	<p>Level of Candidature: BSc. Hons. Biotechnology  Individual/joint: Co-Supervisor  Level of Progress: Completed (2019)</p> <p><b>2020/2021 FOP Year 3 Research Project</b></p> <ol style="list-style-type: none"> <li>1. Evaluation of phytochemical constituents and antioxidant potential of Melastoma malabatricum leaf and root extracts.</li> <li>2. Evaluation of anticancer and in vitro wound healing activities of Melastoma malabatricum leaf and root extracts.</li> <li>3. Synergetic effects of Nigella sativa and Curcuma longa against Anti-Candida activities</li> </ol>
Teaching	<p><b>BSc. Pharmacy</b></p> <ol style="list-style-type: none"> <li>1. Microbiology</li> <li>2. Immunology</li> <li>3. Basic to Industrial Pharmacy</li> <li>4. Cosmetics and Toiletries</li> <li>5. Dosage Form Design II</li> <li>6. Pharmaceutical Biotechnology</li> </ol> <p><b>MSc. Pharmacy</b></p> <ol style="list-style-type: none"> <li>1. Basic Concepts in Pharmaceutics</li> </ol>
Areas of Expertise	<ul style="list-style-type: none"> <li>• Natural Product and drug discovery based on antimicrobial, analgesic, and antioxidant activities.</li> <li>• Anticancer activities and the mechanisms</li> <li>• Application of nanotechnology in antimicrobial and anticancer activities.</li> </ul>
Contact Details	<a href="mailto:geethaa@aimst.edu.my">geethaa@aimst.edu.my</a>