PROFILE				
1	NAME	Gurmeet Kaur Surindar Singh		
2	ACADEMIC POSITION	Senior Lecturer (DM 52)		
3	STATUS OF APPOINTMENT	Permanent		
4	CITIZENSHIP	Malaysian		
5	EDUCATION	 Phd (Medicine) University of Sydney, Australia, 2015 MSc (Physiology) University of Malaya, Malaysia, 2008 BSc. (Hons.) (Biomedical Technology), University of Malaya, Malaysia, 2003 		
6	WORKING EXPERIENCE	 Universiti Teknologi MARA (UiTM), Selangor, Malaysia Lecturer, Department Pharmaceutical Life Sciences, 1 July 2008-present Shimadzu-UMMC Centre for Xenobiotics Studies (SUXCeS), University of Malaya. Research Assistant, Department of Pharmacology, 7 January 2003-December 2004. 		
7	CURRENT ACADEMIC RESPONSIBILITIES	 Human Anatomy And Physiology (PHC 402) Principals of Pathology (PHC 451) Biostatistics And Calculus (PHC 425) Research 1 & 2 (PHC 566/567) Pharmaceutical Biochemistry (PHC 429) 		
8	RESEARCH INTERESTS/ PROJECTS	 Neurosteroid metabolism in Alzheimer's disease Regulation of phase II enzymes in Alzheimer's disease Steroid analysis using liquid chromatography tandem mass spectrometry (LC-MS/MS) (method development and validation) Neurophysiology and neuroendocrinology Aphrodisiac plants (Tongkat Ali) Neuroprotective Role of Astaxanthin Nanoemulsion In Alzheimer's Disease 		
9	PUBLICATIONS	 Mutalip, S. S. M., Surindar Singh, G. K., Mohd Shah, A., Mohamad, M., Mani, V., & Hussin, S. N. (2013) Histological changes in testes of rats treated with testosterone, nandrolone, and stanozolol. Iranian Journal of Reproductive Medicine, 11(8), 653-658. Singh GKS, Jimenez M, Newman R, Handelsman DJ 2014 Immunoreactive LH in long-term frozen human urine samples. Drug Test. Anal. 6: 336-341 Singh GKS, Turner L, Desai R, Jimenez M, Handelsman DJ 2014 Pharmacokinetic-pharmacodynamic study of subcutaneous injection of depot nandrolone decanoate using dried blood 		

- spots sampling coupled with ultrapressure liquid chromatography tandem mass spectrometry assays. J. Clin. Endocrinol. Metab. 99:2592-2598
- Gurmeet, K., Rosnah, I., Normadiah, M., Das, S., & Mustafa, A. 2014. Detrimental effects of bisphenol A on development and functions of the male reproductive system in experimental rats. EXCLI Journal 13:151-160
- Singh GKS, Balzer, BWS, Desai R, Jimenez M, Steinbeck KS, Handelsman DJ 2015 Requirement for specific gravity and creatinine adjustments for urinary steroids and luteinizing hormone concentrations in adolescents. Ann Clin Biochem 52: 665 – 671
- Handelsman DJ, Jimenez M, Singh GKS, Spaliviero J, Desai R, Walters KA 2015 Measurement of testosterone by immunoassays and mass spectrometry in mouse serum, testicular and ovarian extracts. Endocrinology 156: 400-405
- Singh, G. K., Balzer, B. W., Kelly, P. J., Paxton, K., Hawke, C. I., Handelsman, D. J., & Steinbeck, K. S. (2015). Urinary Sex Steroids and Anthropometric Markers of Puberty-A Novel Approach to Characterising Within-Person Changes of Puberty Hormones. PLoS ONE, 10(11).
- Gurmeet Kaur Surindar Singh, Muhammad Fiqri Zolkurnian, Umair Alhadi Mohd Sahri, Muhammad Samsusah, Nur Adilah Abdul Rahman, Hannis Fadzillah Mohsin and Mashani Mohamad (2017). Regulation of androgens and steroidogenic enzymes gene expression in Sprague-Dawley rats treated with Eurycoma longifolia extract. Thai Journal of Pharmaceutical Sciences. (Vol 41)145-148. Scopus Indexed Journal.
- Mashani Mohamad, Muhammad Fiqri Zolkurnian, Umair Alhadi Mohd Sahri, Muhammad Samsusah, Nur Adilah Abdul Rahman, Hannis Fadzillah Mohsin and Gurmeet Kaur Surindar Singh (2017). Exploring the Aphrodisiac Potential of Tongkat Ali Hitam (*Polyalthia bullata*) In Male Sprague-Dawley Rats. Thai Journal of Pharmaceutical Sciences. (Vol 41)137-140. Scopus Indexed Journal.
- Mazzura Wan Chik, Nurul Aqmar Mohd Nor Hazalin, Gurmeet Kaur Surindar Singh (2017). Comparative Behavioural Study of Unilateral and Bilateral Intrahippocampal Injection of Streptozotocin for Alzheimer's Disease Rat Model. *Thai Journal of Pharmaceutical Sciences*. (Vol 41)213-216. Scopus Indexed Journal.
- Gurmeet Kaur Surindar Singh, Khuriah Abdul Hamid, Muhammad Anwar Ismail, Yang Mahirah Abdul Ghani, Meor Mohd Redzuan Meor Mohd Affandi (2017). Intestinal Absorption of Astaxanthin Emulsion Formulations in Rats. *Thai Journal of Pharmaceutical Sciences*. (Vol 41)141-144. Scopus Indexed Journal.

- Ahmad Muner Md Daud, Gurmeet Kaur Surindar Singh, Vellayan Subramaniam. Review of Ivermectin Treatment on Exotic Animals (2017). Thai Journal of Pharmaceutical Sciences. (Vol 41)149-152. Scopus Indexed Journal.
- Mashani Mohamad, Hannis Fadzillah Mohsin, Gurmeet Kaur Surindar Singh (2017). A study on the effects of Eurycoma longifolia and Polyalthia bullata on reproductive organs and androgens of male Sprague-Dawley rats. Journal of Engineering and Applied Sciences. (Vol 12. Issue 25) 6694-6999. Scopus Indexed Journal.
- Gurmeet Kaur Surindar Singh, KA Ku Azman, MA Abdul Hadi, Meor Mohd Redzuan Meor Mohd Affandi (2018). Scheduled and Standardised Training Improved Employees' Knowledge on Good Manufacturing Practices (GMP). International Journal of Pharmacy and Pharmaceutical Sciences. (Vol 10) 185-190.
- Mazzura Wan Chik, Nurul Aqmar Mohamad Nor Hazalin, Gurmeet Kaur Surindar Singh (2018). Chronic intrahippocampal administration of streptozotocin targeting insulin receptors induced memory loss in rats: A dose comparison study. Cognition, Brain, Behavior: An Interdisciplinary Journal. (Vol 22; Issue 1) 13-29 Scopus Indexed Journal.
- Gurmeet Kaur Surindar Singh, Nurul Aida Ashyqin Zulkefli, Muhammad Anwar Ismail, Meor Mohd Redzuan Meor Mohd Affandi (2018). Tissue Distribution of Astaxanthin Formulation in Rats. Current Nutrition & Food Science (Vol 13). Scopus Indexed Journal.
- Siti Syairah Mohd Mutalip, Aishah Mohd Shah, Mashani Mohamad, Vasudevan Mani, Siti Nooraishah Hussin, Gurmeet Kaur Surindar Singh (2019). Pubertal anabolic androgenic steroid exposure in male rats affects levels of gonadal steroids, mating frequency, and pregnancy outcome. Journal of Basic and Clinical Physiology and Pharmacology. Vol 30(1) 29-36.
 Scopus Indexed Journal.
- Leo Turner, Lam P. Ly, Reena Desai, Gurmeet Kaur Surindar Singh, Timothy D. Handelsman, Sasha Savkovic, Carolyn Fennell, Veena Jayadev, Ann Conway, David J Handelsman, 2019. Pharmacokinetics And Acceptability of Subcutaneous Injection Of Testosterone Undecanoate. Journal Of The Endocrine Society, 3,8,1531-1540.

Book chapter:

Sadia Sultan, **Gurmeet Kaur Surindar Singh**, Kamran Ashraf and Muhammad Ashraf. Molecular Docking Molecular Editor Dr. Dimitrios Vlachakis: Docking Studies of Enzyme Inhibitors and Cytotoxic Chemical Entities. 13-30. Intech Open Limited, United Kingdom.

Abstract presented at conferences

- Nur Faiqah binti Fauzi, Mazzura Wan Chik, Nurul Aqmar Mohd Nor Hazalin, Gurmeet Kaur Surindar Singh (2018). Declined Recognition Memory of Aged Rats Injected with Streptozotocin Intrahippocampally: A Novel Alzheimer's Disease Rodent Model. 6th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (Ipnacs). Manila, Philippines, 22-23 Nov 2018.
- Mazzura Wan Chik, Nurul Aqmar Mohd Nor Hazalin, Gurmeet Kaur Surindar Singh. Intrahippocampal Injection of Streptozotocin as an alternative of Alzheimer's Disease Rat Model Induces Memory Impairment and Formation of Amyloid Beta₁₋₄₂. 6th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (Ipnacs). Manila, Philippines, 22-23 Nov 2018.
- Singh GKS, Newman R, Desai R, Jimenez M, He JX, Simanainen U, Steinbeck K, Handelsman DJ Validation and application of an ultra-sensitive liquid chromatography (LC)-tandem mass spectrometry (MS) assay to measure androgens and estrogen in human urine. The annual Scientific Meeting of Endocrine Society of Australia and the Society for Reproductive Biology (ESA/SRB), Gold Coast, Queensland, Australia 2012.
- Singh GKS, Desai R, Jimenez M, Handelsman DJ Quantitation of testosterone and nandrolone using dried blood spots (DBS) for steroid pharmacological study. 61st Conference on Mass Spectrometry and Allied Topics, American Society of Mass Spectrometry (ASMS), Minneapolis, Minnesota, United States 2013.
- Desai R, Singh GKS, Turner L, Jimenez M, Handelsman DJ. Dried Blood Spots (DBS) Blood Sampling coupled with Liquid Chromatography, Tandem Mass Spectrometry (LC-MS/MS) assay to investigate pharmacokinetics and pharmacodynamics of subcutaneous injection of steroid esters in an oil vehicle. Indian Society of Mass Spectrometry (ISMAS-WS) Parwanoo, Himachal Pradesh, India 2014
- Singh GKS, Turner L, Desai R, Jimenez M, Handelsman DJ.
 Pharmacokinetic-pharmacodynamic study of subcutaneous
 injection of nandrolone decanoate in an oil vehicle using dried
 blood spots (DBS) blood sampling coupled with liquid
 chromatography, tandem mass spectrometry (LC-MS) assays.
 16th International Congress of Endocrinology and the 96th
 Endocrine Society Annual Meeting (ICE/ENDO), Chicago,
 Illinois 2014
- Balzer BWR, Singh GKS, Kelly PJ, Paxton K, Hawke CI, Handelsman DJ, Steinbeck KS. Urinary sex steroids, luteinizing

- hormone and anthropometric markers of puberty: Preliminary results from an intensive longitudinal cohort study. 16th International Congress of Endocrinology and the 96th Endocrine Society Annual Meeting (ICE/ENDO), Chicago, Illinois 2014
- Singh GKS, Turner L, Desai R, Jimenez M, Handelsman DJ.
 Pharmacokinetic-pharmacodynamic study of subcutaneous
 injection of nandrolone decanoate using dried blood spots
 (DBS) blood sampling coupled with LC-MS/MS. 20th
 International Mass Spectrometry Conference (IMSC), Geneva,
 Switzerland 2014
- Turner L, Singh GKS, Desai R, Jimenez M, Handelsman DJ.
 Pharmacokinetic-pharmacodynamic study of subcutaneous injection of nandrolone decanoate in an oil vehicle using dried blood spots (DBS) blood sampling coupled with liquid chromatography, tandem mass spectrometry (LC-MS) assays.

 The Annual Scientific Meeting of Endocrine Society of Australia and the Society for Reproductive Biology (ESA/SRB), Melbourne, Victoria, Australia 2014.
- Mashani Mohamad, Gurmeet Kaur Surindar Singh, Hannis Fadzillah Mohsin 29 Nov-1 Dec 2016 Deevana Plaza, Krabi Thailand A Study on the Effects of Eurycoma longifolia and Polyalthia bullata on Reproductive organs and Androgens of Male Sprague- Dawley rats. International Conferenceon Herbal Science, Technology& Medicine (HerbSTeM).
- Vellayan Subramaniam, Gurmeet Kaur Surindar Singh. Control of Rabies Outbreak in Northern Peninsular Malaysia: Vaccination versus Culling 28 July, 2016. Syeun Hotel, Ipoh Perak, Seminar on Tropical Medicine and Infectious Diseases.
- Gurmeet Kaur Surindar Singh, Vellayan Subramaniam. Rabies what needs to be done to prevent outbreak. 3rd International Conference on Tropical Medicine and Infectious Diseases. 15-17 Aug 2017, Premiera Hotel, Kuala Lumpur (oral presentation). Abstract published in *Malaysian Journal of Public Health Medicine (MJPHM)* (Scopus indexed journal).
- Gurmeet Kaur Surindar Singh, Qurratu Aini Aniqah Binti Sekaria, Vellayan Subramaniam. Occurrences of Animal Allergy among Laboratory Workers and Researchers. 3rd International Conference on Tropical Medicine and Infectious Diseases. 15-17 Aug 2017, Premiera Hotel, Kuala Lumpur (oral presentation). Abstract published in Malaysian Journal of Public Health Medicine (MJPHM) (Scopus indexed journal).
- Qurratu Aini Aniqah Binti Sekaria, Gurmeet Kaur Surindar Singh, Vellayan Subramaniam. Exposure of laboratory animal allergens among laboratory workers and researchers. 5th International Postgraduate Conference on Pharmaceutical Sciences 2017 (iPoPS 2017).

		Vellayan Subramaniam, Gurmeet Kaur Surindar Singh. Control of Rabies Outbreak in Northern Peninsular Malaysia. 5 th International Postgraduate Conference on Pharmaceutical Sciences 2017 (iPoPS 2017).
10	RESEARCH GRANTS	 Deciphering The Neuroprotective Role Of Astaxanthin Nanoemulsion In Alzheimer's Disease (PI FRGS-2019-2021). Unravelling The Changes in Phase II Enzymes and Neurosteroid Metabolism during the Progression of Alzheimer's Disease (PI FRGS-2015-2018). A Study On The Effect Of Eurycoma longifolia and Polyalthia bullata on Testicular Morphology and Androgens in Male Sprague-Dawley Rats (Member LESTARI 2016-2018). Uncovering The Mechanisms of Microbial Biotransformed Antitumour Agents using Metabolomics and Gene Expression Analysis (Member LESTARI 2015-2017). Understanding The Role Of Liver Sinusoidal Endothelial Cells in the Pathophysiology of Age-Related Insulin Resistance (Member FRGS 2016-2018). Elucidation Of Microbial Biotransformed Mechanism of Antitumor Agents Using Metabolomics and Gene Expression Analysis (Member FRGS 2016-2018).
11	AWARDS	 Postgraduate Research Support Scheme (PRSS) Award, University of Sydney, 2012-2014 Concord Repatriation General Hospital (CRGH) Research Travelling Award, 2013-2014. Gold - Invention, Innovation & Design Exposition UiTM (iidex) 2017. Living Jungle mosquito repellent: Innovative product against Dengue and Zika. Best Poster: IPNACS 2017 (Tawana Bangkok). Exploring the Aphrodisiac Potential of Tongkat Ali Hitam (<i>Polyalthia bullata</i>) In Male Sprague-Dawley Rats. Best Poster: IPNACS 2017 (Tawana Bangkok). Intestinal Absorption of Astaxanthin Emulsion Formulations in Rats. Gold-PharmalIDEX 2019. Discovery of Novel Alpha Glucosidase Enzyme Inhibitors. Bronze- Discovery of Novel Alpha Glucosidase Enzyme Inhibitors. Invention, Innovation & Design Exposition UiTM (iidex) 2019
12	INVOLVEMENT IN PROFESSIONAL ORGANISATIONS	 Endocrine Society, Member (2014-2015) American Society of Mass Spectrometry (ASMS), Member (2013). Malaysian Pharmaceutical Society (MPS 2016-present)
13	PARTICIPATION IN CONTINUING EDUCATION	 Presenter, 5th International Conference On Pharmaceuticals, Nutraceuticals & Cosmetic Science (IPNACS) 2017. Presenter, Secretariat 5th International Postgraduate Conference on Pharmaceutical Sciences 2017 (iPoPS 2017).

		 Participant, International IPNACS, 2015, Nov 23-13, Melaka, Malaysia Participant, Malaysian Association of Clinical Biochemists Conference, 2015, Doubletree Hotel, Kuala Lumpur, August 3-5, 2015 Presenter, 16th International Congress of Endocrinology and the Endocrine Society's 96th Annual Meeting and Expo (ICE/Endo). June 21-24, 2014, McCormick Place West, Chicago, United States. Presenter, 20th International Mass Spectrometry Conference Geneva (IMSC), 24-29 August, 2014, Centre International De Conference Geneva (CICG), Geneva, Switzerland Presenter, 61st Conference on Mass Spectrometry and Allied Topics by The American Society of Mass Spectrometry (ASMS), June 9-13, 2013, Minneapolis, Minnesota, United States. LC/MS Workshop: Techniques of Electrospray, APCI and APPI. American Society for Mass Spectrometry. June 8-9, 2013, Minneapolis, Minnesota, United States. Anzac Research Institute 12th Annual Symposium, Bone Biology and Osteoporosis. September 6, 2013 Clinical Diagnostics and Mass Spectrometry Discussion Group. September 25, 2013, National Measurement Institute, North Ryde, Sydney 13th Sydney University Reproduction Forum. Anzac Research Institute. November 15, 2013 Presenter, The annual Scientific Meeting of Endocrine Society of Australia and the Society for Reproductive Biology. 26-29 August 2012. Gold Coast. ANZAC Research Institute 11th Annual Symposium. Training and Workshop on LC-MS/MS. 13 September 2012. ANZAC Research Institute
14	COMMUNITY SERVICES	Facilitator. Program 'Jom Sains Farmasi'. 19 December 2016. Faculty of Pharmacy, UiTM Puncak Alam.
15	CONSULTATION	Head, Acute And Dermal Toxicity Study of Living Jungle® Mosquito Repellent. RM 6,000. Registered IRMI 4244. Jan_Dec 2018