



Associate Professor

BSc (Hons), PhD (with distinction) (UM), AMIC

Office: D217

Email: simkm@utar.edu.my

Universities Attended

PhD (with distinction) (2001), Universiti Malaya

BSc (Hons) (1995), Universiti Malaya

Professional Involvement

Associate Member - Malaysian Institute of Chemistry

Awards

Tan Sri Datuk Ong Kee Hui Postgraduate Chemistry Award 2001 (for best national postgraduate thesis in chemistry)
Institut Kimia Malaysia (IKM)

42nd IUPAC Young Chemist Award 2009
Royal Society of Chemistry (RSC)

Research Interest

- Natural Products Chemistry
- Organic Synthesis
- Bioorganic & Bioinorganic Chemistry

Research Project

Isolation, structural characterization and antioxidant activity of bioactive xanthenes from the pericarp of *Garcinia mangostana* (UTAR Research Fund 2009)

Publications

Kam, T. S., Jayashankar, R., **Sim, K. M.** and Yoganathan, K. (1997). Angustimaline, an unusual nitrogenous compound from *Alstonia angustifolia*, *Tetrahedron Letters*, 38: 477-478.

Kam, T. S., Nyeoh, K. T., **Sim, K. M.** and Yoganathan, K. (1997). Alkaloids from *Alstonia scholaris*, *Phytochemistry*, 45: 1303-1305.

Kam, T. S. and **Sim, K. M.** (1998). Alkaloids from *Kopsia griffithii*, *Phytochemistry*, 47: 145-147.

Kam, T. S., **Sim, K. M.**, Koyano, T., Toyoshima, M., Hayashi, M. and Komiyama, K. (1998). Conodiparines A-D, new bisindoles from *Tabernaemontana*. Reversal of vincristine-resistance with cultured cells, *Bioorganic Medicinal Chemistry Letters*, 8: 1693-1696.

Kam, T. S., Subramaniam, G., **Sim, K. M.**, Yoganathan, K., Koyano, T., Toyoshima, M., Rho, M. C., Hayashi, M. and Komiyama, K. (1998). Reversal of Multidrug Resistance (MDR) by aspidofractinine-type indole alkaloids, *Bioorganic Medicinal Chemistry Letters*, 8: 2769-2772.

Kam, T. S., **Sim, K. M.**, Koyano, T., Toyoshima, M., Hayashi, M. and Komiyama, K. (1998). Cytotoxic and Leishmanicidal aminoglycosteroids and aminosteroids from *Holarrhena curtisii*, *Journal of Natural Products*, 61: 1332-1336.

Kam, T. S., **Sim, K. M.**, Koyano, T. and Komiyama, K. (1999). Leishmanicidal alkaloids from *Kopsia griffithii*, *Phytochemistry*, 50: 75-79.

Kam, T. S. and **Sim, K. M.** (1999). Dippinine A, new alkaloid of the Chippiine-type from a Malayan *Tabernaemontana*, *Natural Products Letters*, 13: 143-146.

Kam, T. S. and **Sim, K. M.** (1999). Dippinine C, a new hexacyclic Chippiine derivative from a Malayan *Tabernaemontana*, *Heterocycles*, 51: 345-348.

Kam, T. S., **Sim, K. M.** and Lim, T. M. (1999). Tronoharine, a novel hexacyclic indole alkaloid from a Malayan *Tabernaemontana*, *Tetrahedron Letters*, 40: 5409-5412.

Kam, T. S., **Sim, K. M.** and Lim, T. M. (2000). Tronocarpine, a novel pentacyclic indole incorporating a seven-membered lactam moiety, *Tetrahedron Letters*, 41: 2733-2736.

Kam, T. S., **Sim, K. M.** and Lim, T. M. (2001). Voastriptide, a novel pentacyclic quinolinic alkaloid from *Tabernaemontana*, *Tetrahedron Letters*, 42: 4721-4723.

Kam, T. S. and **Sim, K. M.** (2001). Dippinines A-D, New Iboga-derived Indole Alkaloids from *Tabernaemontana*, *Heterocycles*, 55: 2405-2412.

Kam, T. S. and **Sim, K. M.** (2002). Five New Iboga Alkaloids from *Tabernaemontana corymbosa*, *Journal of Natural Product*, 65: 669-672.

Kam, T. S. and **Sim, K. M.** (2002). Vobasonidine and vobatricine, novel bisindole alkaloids from a Malayan *Tabernaemontana*, *Helvetica Chimica Acta*, 85: 1027-1032.

Kam, T. S. and **Sim, K. M.** (2002). New Tabernamine Derivatives from *Tabernaemontana*?, *Heterocycles*, 57: 2137-2143.

Kam, T. S. and **Sim, K. M.** (2003). Conodurine, Conoduramine and Ervahanine Derivatives from *Tabernaemontana*, *Phytochemistry*, 63: 625-629.

Kam, T. S., **Sim, K. M.** and Pang H. S. (2003). New Bisindole Alkaloids from *Tabernaemontana corymbosa*, *Journal of Natural Products*, 66: 11-16.

Kam, T. S. and **Sim, K. M.** (2003). Conodirinines A and B, novel vobasine-iboga bisindoles incorporating an addition tetrahydro-1,3-oxazine unit on the vobasinyll moiety, *Helvetica Chimica Acta*, 86: 122-126.

Kam, T. S., **Sim, K. M.**, Pang, H. S., Koyano, T., Hayashi, M. and Komiyama, K. (2004). Cytotoxic effects and reversal of multidrug resistance by ibogan and related indole alkaloids, *Bioorganic Medicinal Chemistry Letters*, 14: 4487-4489.

Lim, S. H., **Sim, K. M.**, Abdullah, Z., Hiraku, O., Hayashi, M., Komiyama, K. and Kam, T. S. (2007). Leuconoxine, Kopsinitarine, Kopsijasmine, and Kopsinone Derivatives from *Kopsia*, *Journal of Natural Products*, 70: 1380-1383

Sim, K. M., Wong, Y. K., Tan, H. Y., Ong, M., Wong, Y. S. and Chan, L. W. Xanthones from the pericarp of *Garcinia mangostana*, International conference on molecular chemistry, Universiti Malaya, 25-26 November, 2008.

Sim, K. M., Mak, C. N. and Ho, L. P. (2009). A new amide alkaloid from the leaves of *Piper sarmentosum?*, *Journal of Asian Natural Products Research*, in press.

Lim, K. H., **Sim, K. M.** and Kam, T. S. (2009). Four tetracyclic oxindole alkaloids and a taberpsychine derivative from a Malayan *Tabernaemontana?*, *Phytochemistry*, in press.

Sim, K. M. and Kam, T. S. Bioactive bisindole alkaloids from *Tabernaemontana corymbosa*, 42nd IUPAC Congress, SECC, Glasgow, UK, 2-7 August, 2009.