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**Research Interest**

1. Electroorganic synthesis
2. Bioactive materials from natural products
3. Spectroscopy

**Publications**

1. Lim, KH; Low, YY; Tan, GH; Kam, TS; Lim, TM, Kopsine and danuphylline alkaloids from *Kopsia*. Biomimetic partial synthesis of danuphylline B, *Helvetica Chimica Acta*, 91(8):1559-1566, 2008.
2. Kam, TS; Pang, HS; Lim, TM, Biologically active indole and bisindole from *Tabernaemontana divaricata*, *Organic & Biomolecular Chemistry*, 1(8): 1292-1297, 2003.
3. Kam, TS; Subramaniam, G; Lim, TM, Mersinines A and B and mersiloscine, novel quinolinic alkaloids from *Kopsia*, *Tetrahedron Letters*, 42(34): 5977-5980, 2001.
4. Kam, TS; Lim, TM; Tan, GH, Electrochemical oxidation of aspidofractinine-type alkaloids: Formation of kopsine, kopsidine, kopsinitarine and bisindoles derivatives, *Journal of The Chemical Society-Perkin Transactions 1*, (14): 1594-1604, 2001.
5. Kam, TS; Sim, KM; Lim, TM, Voastriutine, a novel pentacyclic quinolinic alkaloid from *Tabernaemontana*, *Tetrahedron Letters*, 42(28): 4721-4723, 2001.
6. Kam, TS; Sim, KM; Lim, TM, Tronocarpine, a novel pentacyclic indole incorporating a seven-membered lactam moiety, *Tetrahedron Letters*, 41(15): 2733-2736, 2000.
7. Kam, TS; Sim, KM; Lim, TM, Tronoharine, a novel hexacyclic indole alkaloid from a Malayan *Tabernaemontana*, *Tetrahedron Letters*, 40(29): 5409-5412, 1999.
8. Kam, TS; Lim TM; Tan, GH, Unprecedented cyanation and cynomethylation following ring closure *versus* dimmer formation during anodic oxidation of the aspidofractinine alkaloid kopsamine, *Heterocycles*, 51(2): 249-253, 1999.
9. Kam, TS; Lim, TM; Choo, YM, Structure and biomimetic, electrochemically-mediated semisynthesis of the novel pentacyclic indole danuphylline, *Tetrahedron*, 55 (5): 1457-1468, 1999.

10. Kam, TS; Lim, TM; Subramaniam, G; Tee, YM; Yoganathan, K, 17- $\alpha$ -hydroxy-D<sup>14,15</sup>-kopsinine and a bisindole alkaloid from *Kopsia teoi*, *Phytochemistry*, 50(1): 171-175, 1999.
11. Kam, TS; Lim, TM, Choo, YM; Subramaniam, G, Danuphylline, a novel pentacyclic alkaloid from *Kopsia*, *Tetrahedron Letters*, 39(32): 5823-5826, 1998.
12. Mok, SL; Yoganathan, K; Lim, TM; Kam, TS, Cardiovascular effects of aspidofractinine-type alkaloids from *Kopsia*, *Journal of Natural Products*, 61(3): 328-332, 1998.
13. Kam, TS; Lim, TM; Tan, GH, Electrochemical oxidation of aspidofractinine-type alkaloids. A facile electrochemically-mediated conversion of kopsingine to kopsidines A, B, C and kopsinganol, *Tetrahedron Letters*, 36(8): 1327-1330, 1995.
14. Kam, TS and Lim, TM, Electron-transfer versus nucleophilic substitution in the reactions of  $\alpha$ -halogenated 4-nitrotoluenes with base, *Journal of The Chemical Society-Perkin Transactions 2*, (2): 147-150, 1993.
15. Symons, MCR; Kam, TS; Wyatt, J; Lim, TM, Electron paramagnetic resonance studies of electron-capture processes. *p*-Nitrobenzyl and *p*-nitrobenzylidene systems, *Journal of The Chemical Society-Perkin Transactions 2*, (2): 151-155, 1993.

#### **Patent**

Kam, TS; Anuradha, S; Lim, TM; Takahashi, T; Koyano, T; Komiyama, K, Conophylline quinone as a new antitumor agent, Japan Kokai, JP10045763, 17 January 1998.