

NAME: DAUD AHMAD BIN ISRAF ALI

UNIT/DEPARTMENT:

TELEPHONE NUMBER (OFFICE): 03-8947 2337

FAX NUMBER (OFFICE): 03-8947 2337

EMAIL ADDRESS: [daud@medic.upm.edu.my](mailto:daud@medic.upm.edu.my)

FIELD OF SPECIALIZATION: Biomedical Science

CURRENT RESEARCH:

Title: Elucidation of the mechanism of inflammatory mediator suppression by the phytochemical AR3

Duration: Two years (2005-2006)

Role: Project leader

Input: RM 87,000.00 (Competitive Fundamental Grant)

Output: None to date

Impact: This project has further characterized the mechanism of action of a compound isolated by our team.

PUBLICATIONS:

- Journals

- 1 Syahida, A., Israf D.A., Lajis, N.H., Khozirah, S., Habsah, M., Jasril, Permana, D. & Norhadiani, I. (2006). Effect of compounds isolated from natural products on IFN- $\gamma$ /LPS-induced nitric oxide production in RAW 264.7 macrophages. *Pharmaceutical Biology* 44(1): 50-59.
- 2 Shaari, K., Suryati, Abas, F., Lajis, N.H and Israf, D.A. (2006). A geranylacetophenone from the leaves of *Melicope ptelefolia*. *Natural Product Research* 20(5): 415-419.
- 3 Syahida, A., Israf, D.A., Permana, D., Lajis, N.H., Khozirah, S., Afiza, A.W., Khaizurin, T.A., Somchit, M.N., Sulaiman M.R. & Nasaruddin A.A. (2006). Atrovirone inhibits pro-inflammatory mediator release from murine macrophages and human whole blood. *Immunology & Cell Biology* 84: 250-258.

- 4 Syahida, A., Israf, D.A., Lajis, N.H., Khozirah S., Habsah, M., Afiza, A.W., Khaizurin, T.A., Hoo, W.Y., Nasaruddin, A.A., Arifah, A.K., Sulaiman, M.R. & Somchit, M.N. (2006). Cardamonin inhibits pro-inflammatory mediators in activated RAW 264.7 cells and whole blood. *European Journal of Pharmacology* 538: 188-194.
- 5 Somchit, N., Wong, C.W., Zuraini, A., Ahmad Bustamam, A., Hasiah, A.H., Khairi, H.M., Sulaiman, M.R. & Israf, D.A.. (2006). Involvement of phenobarbital and SKF 525A in the hepatotoxicity of antifungal drugs itraconazole and fluconazole in rats. *Drug and Chemical Toxicology* 29(3):237-53.
- 6 Israf, D.A., Khaizurin, T.A., Syahida, A., Lajis, N.H. & Khozirah, S. (2007). Cardamonin inhibits COX and iNOS expression via inhibition of p65NF- $\kappa$ B nuclear translocation and I $\kappa$ -B phosphorylation in RAW 264.7 macrophage cells. *Molecular Immunology* 44(5): 673-679.
- 7 Faridah Abas, Lim Siang Hui, Syahida Ahmad, Johnson Stanslas, Israf, D. A. Khozirah Shaari & Nordin H. Lajis (2006). Biological evaluation of curcumin and related diarylheptanoids. *Zeitschrift fur Naturforschung C* (in press).
- 8 Solihah, M.H., Somchit, M.N., Israf, D.A., Zuraini, A., Arifah, A.K., Zakaria, M.S., Sulaiman, M.R., Mat-Jais, A.M. (2006). Analgesic activity of three *Channa* spp. Fish extracts. *Oriental Pharmacy & Experimental Medicine* (in press).
- 9 Somchit, N., Zuraini, A., Ahmad Bustamam, A., Israf, D.A., Sulaiman, M.R. & Mutalib, A.R. Antimicrobial activity of *Ardisia crispa* (Thunb.) A.DC. *Fitoterapia* (submitted).
- 10 Somchit, M.N., Abdul Rashid, R., Abdullah, A., Zuraini, A., Israf, D.A., Sulaiman, M.R. & Mutalib, A.R. Antimicrobial activity of *Acalypha indica* Linn. *Phytotherapy Research* (submitted).

- Conference proceeding

1. Israf, D.A., Syahida, A., Lajis, N.H., Khozirah, S., Arifah, A.K., Afiza, A.W., Khaizurin, T.A. & Nasaruddin, A.A. (2004). Cardamonin: a naturally-occurring phytochemical with

- anti-inflammatory drug-like properties. In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 34.
2. Syahida, A., Israf, D.A., Lajis, N.H., Khozirah, S., Hoo, W.Y., Arifah, A.K., Afiza, A.W., Khaizurin, T.A. and Nasaruddin, A.A. (2004). Suppression of inflammatory mediator synthesis by zerumbone, a subtropical ginger sesquiterpene isolated from zingiber zerumbet (zingiberaceae). In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 35.
  3. Afiza, A.W., Israf, D.A., Lajis, N.H., Khozirah, S., Syahida, A. and Khaizurin, T.A. (2004). Expression analysis of the effect of apigenin upon the macrophage proteome. In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 36.
  4. Khozirah, S., Saha, K., Hamzah, A.S., Israf, D.A. & Lajis, N.H. (2004). Structural studies on a novel carotenoid from *Leea indica*. In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 48-49.
  5. Sharin, R., Zurina, Z., Lajis, N.H., Khozirah, S. & Israf, D.A. (2004). Online LC-DAD-MS/MS characterization of the active components from medicinal gingers (*Curcuma xanthorrhiza* and *Zingiber zerumbet*). In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 59.
  6. Daud, M.N.H., Khozirah, S., Israf, D.A. & Lajis, N.H. (2004). Inhibitors of leukotriene biosynthesis from Malayisan plants as anti-asthmatics. In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 60.
  7. Faridah, A., Lajis, N.H., Hui, L.S., Syahida, A., Stanslas, J., Israf, D.A., Shaari, K., Umi-Kalsom, Y. & Othman, A.G. (2004). Semisynthesis and biological evaluation of curcumin-related diarylheptanoids. In *Abstracts of the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society*, 29-30 November 2004, Kuching. p 66.
  8. Sulaiman, M.R., Somchit, M.N., Israf, D.A., Moin, S., Amom, Z. & Taufik-Hidayat, M. (2004). Antinociceptive effect of the aqueous extract of *Zingiber zerumbet* in mice. In *Abstracts of*

*the 20<sup>th</sup> Annual Seminar of the Malaysian Natural Products Society, 29-30 November 2004, Kuching. p 80.*

9. Khaizurin, T.A., Israf, D.A., Lajis, N.H., Khozirah, S., Syahida, A and Afiza, A.W. (2005). Atrovirone exhibits anti-inflammatory effects by inhibiting phosphorylation of I $\kappa$ B. In *Abstracts of the Regional Conference on Molecular Medicine, 9-11 September 2005, Kuala Lumpur. p 32.*
10. Israf, D.A., Khaizurin, T.A., Syahida, A., Habsah, M., Lajis, N.H. and Khozirah, S. (2005). Mechanism of action of the anti-inflammatory compound atrovirone. In *Abstracts of the 21<sup>st</sup> Annual Seminar of the Malaysian Natural Products Society, 22-23 November 2005, Putrajaya.*