

CURRICULUM VITAE



PERSONAL DETAILS

- 1. Name:** KHOZIRAH SHAARI
- 2. Dept/Faculty:** Laboratory of Natural Products Discovery
Institute of BioSciences
University Putra Malaysia
43400 UPM Serdang
Selangor
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- Department of Chemistry
Faculty of Science and Environmental Studies
University Putra Malaysia
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Office of the Deputy Vice Chancellor (Research and Innovation)
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- 3. Field of specialization:** Natural Products Chemistry
- 4. AREAS OF RESEARCH INTEREST**
- Natural Products Chemistry/Phytochemistry
 - Structural characterization of organic molecules using spectroscopy in particular high field NMR and Mass spectroscopy
 - Isolation and identification of natural enzyme inhibitors (NSAIDS, anticholinesterase, antidiabetic) and anticancer compounds
 - Organic synthesis and biotransformation (microbes) of natural products
 - Standardization and quality control of plant and related products
 - Metabolite profiling and metabolomics
 - Application of chemistry in systems biology and medicine
- 5. Date of birth/Age:** 4th May 1961
- 6. Education:** 1968 –1973 St. Annes Convent, Kulim
1974 –1976 Convent Secondary School, Butterworth

1977 – Oct. 1979	Sek. Men. Teknik, Alor Star
Oct. 1979 – May 1981	Loughborough Technical College, England
Sept. 1981 – April 1984	University College Swansea, Wales
June 1985 – Feb. 1988	University Malaya, KL
Oct. 1991 – July 1994	Univeristy of Strathclyde, Glasgow, Scotland

Academic qualifications:	LCE (1976)	Convent Secondary School, Butterworth
	MCE (1979)	Alor Star Technical School
	GCE 'A' levels (1981)	Loughborough Technical, College, England
	BSc. (Honours) (1984)	Uni. College Swansea Wales
	MSc. 1988	University Malaya, KL
	PhD 1994	Uni. of Strathclyde, Glasgow, Scotland

7. Academic and other relevant appointments:

1. Appointed as Tutor (on Contract) at the Chemistry Dept. Univ. Malaya from June 1985 to Feb. 1988
2. Research officer at the Forest Research Institute Malaysia (FRIM) from March 1988 to July 2001
3. Lecturer at Chem. Dept, Faculty of Environemntal Science, Univerity Putra Malaysia, August 2001 - **Present**
4. Associate Researcher at the Phytomedicinal Laboratory, Inst. Of Biosains, University Putra Malaysia (2001- 2003)
5. Associate Researcher at the Laboratory of Natural Products, Inst. Of Biosains, University Putra Malaysia (2004- **Present**)
6. Coordinator for Herbal Research Program at the Phytomedicinal Laboratory, IBS, UPM (2001-2003)
7. Coordinator for Standardization and Chemical Characterization Research Program at the Laboratory of Natural Products, IBS, UPM (2004- 2010)
8. Coordinator for Metabolomics Research Program at the Laboratory of Natural Products, IBS, UPM (2004- **Present**)
9. Coordinator for Spectroscopy Unit at Phytomedicinal Laboratory, IBS, UPM (2001-2003)
10. Coordinator for Spectroscopy Unit at Laboratory of Natural Products, IBS, UPM (2004-**Present**)
11. Series editor for FRIM Technical Information & Handbook, FRIM Publications Committee (1998-2001)
12. Member of the Malaysian Herbal Monograph Committee and secretary to its technical working group sub-committee (1996-2001)
13. Member of the IUFRO 2000 Scientific Assistant Programme Sub-Committee
14. Member of FRIM's Strategic Plan Review Committee
15. Executive editor of ACGC (2008-**Present**)
16. AJK Malaysian Natural Products Society (NATPRO) (2006/07, two years term)
17. Vice President, Malaysian Natural Products Society (MNPS) (2011/12, two years term)
18. Member, Royal Society of Chemistry (2010-**Present**)
19. Member of Asian Phytochemical Society (2008 – **Present**)
20. DBP – Ahli Panel Istilah Herba
21. Acting Head of Laboratory of Natural Products, IBS, UPM (Mac-Nov. 2004)
22. AJK Mesyuarat Penyelidikan, Inst Biosains (2001-2003)
23. AJK Mesyuarat Pengajian Siswazah, Inst. Biosains (2006)
24. AJK ISO Jabatan Kimia (Pra-siswazah), Fakulti Sains (2004 – 2010)
25. Ketua Penasihat Akademik, Jabatan Kimia, Fakulti Sains (2006)
26. Penyelaras Pengajian Siswazah, Fakulti Sains (2008-2010)
27. Timbalan Pengarah, Bahagian Geran Penyelidikan (2010-**Present**)
(Responsible for Research Grant Management for the University, and in charge of 10 office staffs)

8. Language Proficiency

Speaks and write excellent Bahasa Malaysia and English

9. Research Projects (Completed & Current)

1. Chemotaxonomy of the Malaysian Flacourtiaceae (completed).
1991-1994 FRIM/ODA grant RM200,000 Role: PhD study
2. Identification of antimicrobial and anti-inflammatory principles from selected local medicinal plants and fungi (completed).
1996-1997. IRPA 03-04-01-0014 RM75,000 Role: Project leader
3. Investigations into the antibacterial activities of *Phyllanthus pectinata* and *Senna alata* towards methicillin resistant *Staphylococcus aureus* (MRSA) (completed).
1998-2000. IRPA 09-04-01-0120 RM135,000 Role: Project leader
4. Investigations into the chemistry and antibacterial activity of *Dracontomelon dao* and *D. mangiferum*
2001-2003. IRPA project. RM150,000 Role: Co-worker
5. Inhibitors of leukotriene biosynthesis from natural products as anti-asthmatic agents.
2002-2005. IRPA 06-02-04-0214-EA001. RM191,320 Role: Project leader
6. Identification and quantification of chemical markers and bioactive constituents of *Gynura procumbens* (Lour) Merr.
2003-2005 IRPA 09-02-04-0619-EA001 RM157,000 Role: Project leader
7. 2005-2007. Synthesis of Diarylheptanoids and the analogues of calanolide and damnacanthal (SAGA project)
8. 2002-2005. Induction of tumoricidal macrophage activity by natural products (EAR) -coworker
9. 2002-2005. Use of proteomics in enhancing natural product drug discovery (EAR) – coworker
10. 2002-2005. Investigations on cytotoxic and antimicrobial compounds from *Garcinia penangiana* and *G. nigrolineata* (EAR) -coworker
11. 2002-2005. The evaluation of production and derivatisation of the citric acid in *Garcinia atroviridis* (EAR) - coworker
12. 2002-2005. Production and modification of phytochemicals from *Zingiber zerumbet* and *Curcuma xanthorrhiza* (NBD Top-down) -coworker
13. 2007-2009. Microbial Biotransformation Of Selected Diterpenoids, Flavonoids And Phenolic Compounds From Natural Sources (E-science) – project leader RM179,996
14. 2007-2009. Isolation and identification of bioactive saponins from *Xerospermum noronhianum*, a Malaysian Sapindaceae (E-science)- project leader RM220,000
15. 2007-2008. Phytochemistry of Malaysian Liverworts: *Marchantia polymorpha* and *M. pauciloba* (Hepaticae). FRGS – project leader RM 76,000
16. 2007-2009. Chemical characterization, standardization and biological evaluation of *Melicope ptelefolia* towards their development into anti-inflammatory nutraceutical products. IFNK top down project – project leader RM2.25 mil
17. 2010-2012. Quantitative analysis of huperzine A in Malaysian *Huperzia* by LC-MS/MSⁿ. FRGS (MOHE) – Project leader 45K
18. 2010-2013. *Lycopodium* alkaloids: structural chemistry and anticholinesterase activity. RUGS (UPM) - Project leader 190K
19. 2010-2013. NMR-based metabolomics approach towards grading the quality of gaharu. RUGS (UPM) - Project leader 130K
20. 2012-2013. NMR-based metabolomics fingerprinting and profiling of *Andrographis paniculata* varieties and biofluids (animal metabolic study) in the detection of biomarkers in diabetes-induced rats NKEA Herba MOA – Project Leader 448K

10. LIST OF PUBLICATIONS

1. Norazwana Samat, Pei Jean Tan, **Khozirah Shaari**, Faridah Abas, Hong Boon Lee. Prioritization of Natural Extracts by LCMS-PCA for the identification of new photosensitizers for photodynamic Therapy. *Analytical Chemistry*, 86, :1324-1331 (2014)
2. Maulidiani, Faridah Abas, Alfi Khatib, **Khozirah Shaari**, Nordin Hj. Lajis. Chemical characterization and antioxidant activity of three medicinal Apiaceae species. *Industrial Crops and Products* 55: 238-247 (2014)
3. Maulidiani, Faridah Abas, Alfi Khatib, Mahendran Shitan, **Khozirah Shaari**, Nordin Hj. Lajis. Comparison of partial least squares and artificial neural network for the prediction of antioxidant activity in extract of pegaga (*Centella*) varieties from ¹H Nuclear Magnetic Resonance spectroscopy. *Food Research International* 54: 852-860 (2013)
4. Al-Mekhlafi NA, **Khozirah Shaari**, Abas F, Jeyaraj EJ, Stanslas J, Khalivulla SI, et al. New flavan and alkyl α,β -lactones from the stem bark of *Horsfieldia superba*. *Natural Product Communications*. 8(4):447-51 (2013)
5. Noor Idayu Tahir, **Khozirah Shaari**, Abas F, Ahmad Parveez GK, Ahmad Tarmizi H, Ramli US. Identification of oil palm (*elaeis guineensis*) spear leaf metabolites using mass spectrometry and neutral loss analysis. *Journal of Oil Palm Research*. 25:72-83 (2013)
6. Noor Hashim NH, Abas F, **Khozirah Shaari**, Lajis NH. Antioxidant and xanthine oxidase inhibitory activities of persicaria hydropiper. *Int J Food Prop*. 16 (5):1028-36 (2013)
7. Zareen, S., Ismail, I.S., **Khozirah Shaari**, Yusof, K.N., Akhtar, M.N. Quantitative HPLC analysis of benzene derivatives of *Melicope ptelefolia* leaves International Journal of Food Properties, 16 (8), pp. 1830-1838 (2013)
8. Noor Idayu Tahir, **Khozirah Shaari**, Faridah Abas, Ghulam Kadir Ahmad Parvees, Zamzuri Ishak, Umami Salamah Ramli. Characterization of apigenin and luteolin derivatives from oil palm (*Elaeis guineensis* Jacq) leaf using LC-ESI-MS/MS. *J. Agric. Food Chem*. 60(45), 11201-11210 (2012)
9. Ahmed Mediani, Faridah Abas, Alfi Khatib, H. Maulidiani, **Khozirah Shaari**, Young Hae Choi, N.H. Lajis. ¹H-NMR-based metabolomics approach to understanding the drying effects on the phytochemicals in *Cosmos caudatus*. *Food Research International*. 49:763-770 (2012)
10. Maulidiani H., Alfi khatib, **Khozirah Shaari**, Faridah Abas, Mahendran Shitan, Ralf Kneer, Victor Neto and Nordin H. Lajis. Discrimination of three pegaga (*Centella*) varieties and determination of growth lighting effects on metabolites content based on chemometry of ¹H Nuclear Magnetic Resonance Spectroscopy. *J. Agric. Food Chem*. 60: 410-417 (2012)
11. Curcumin-like diarylpentanoid analogues as melanogenesis inhibitors. Takahiro Hosoya , Asami Nakata, Fumie Yamasaki, Faridah Abas, **Khozirah Shaari**, Nordin Hj Lajis, Hiroshi Morita. *J. Nat. Med*. doi 10.1007/s11418-011-0568-0 (2012)
12. Yusuke Hirasawa, Ryo Matsuya, **Khozirah Shaari**, Nordin Hj Lajis, Nahoko Uchiyama, Yukihiro Goda, Hiroshi Morita. Lycobelines A–C, Novel C16N2-type Lycopodium alkaloids from *Huperzia goebelii*. *Tetrahedron Letters*, 53(31): 3971-3973 (2102)
13. Nabil Ali Al-Mekhlafi, **Khozirah Shaari**, Faridah Abas, Ralf Kneer, Ethel Jeyaseela Jeyaraj, Johnson Stanslas, Naoshi Yamamoto, Toshio Honda, Nordin H. Lajis. Alkenylresorcinols and cytotoxic activity of the constituents isolated from *Labisia pumila*. *Phytochemistry*, 80: 42-49 (2012)
14. Khairana Husin, Siti Mariam Zakaria, Nordin H. lajis, **Khozirah Shaari**, Intan Safinar Ismail, Daud A. Israf, Christian Paetz. Novel sesquiterpene and copyrine alkaloids frm *Anaxagorea javanica* Blume. *Phytochem Lett*. 5: 788-792 (2012)
15. N. Ismail, N.N. Jambari, Seema Zareen, M.N. Akhtar, **S. Khozirah**, M. Zamri-Saad, C.L.Tham, M.R. Sulaiman, N.H. Lajis & D.A. Israf. A geranyl acetophenone targeting cysteinyl leukotriene synthesis prevents allergic airway inflammation in ovalbumin-sensitized mice. *Toxicology & Applied Pharmacology*, 259: 257-262 (2012).
16. Noor Haslinda Noor Hashim, Faridah Abas, **Khozirah Shaari** and Nordin H. Lajis. LC-DAD-ESIMS/MS characterization of antioxidant and anticholinesterase constituents present in the active fraction from *Persicaria hydropiper*. *Food Science and Technology*. 46: 468-476 (2012)
17. Two New Naphthoquinone Derivatives from the Stem Bark of *Callicarpa maingayi*. Sumayah Mohammed Asiri, Khozirah Shaaria, Faridah Abas, Nabil Ali Al-Mekhlafi and Nordin H. Lajis. *Natural Product Communications*. 7(10): 1333-1336 (2012)

18. Two New Phloroglucinol Derivatives and Five Photosensitizing Pheophorbides from *Syzygium polyanthum* Leaves (Salam). Lee Wei Har, **Khozirah Shaari**, Lee Hong Boon, Fadzly A. Kamarulzaman and Intan S. Ismail. *Natural Product Communications*. 7(8): 1033-1036 (2012)
19. "Quantitative HPLC Analysis of Benzene Derivatives of *Melicope ptelefolia* Leaves", Seema Zareen, Intan Safinar Ismail, **Khozirah Shaari**, Khairul N. Yusof and Muhammad Nadeem Akhtar, *Journal of Food Properties*, in press (2012).
20. Nadiyah Mad Nasir, Mawardi Rahmani, **Khozirah Shaari**, Gwendoline Cheng Lian Ee, Rusea Go., Nur Kartinee Kassim, Siti Noor Kamilah Muhamad and Mohd. Johadi Iskandar. Two new xanthenes from *Calophyllum nodosum*. *Molecules* 2011. 16: 8973-8980.
21. Ka-Heng Lee, Faridah Abas, Noorjahan Banu Mohamed Alitheen, **Khozirah Shaari**, Nordin Hj. Lajis and Syahida Ahmad. A curcumin derivative, 2,6-Bis(2,5-dimethoxybenzylidene)-cyclohexanone (BDMC33) attenuates prostaglandin E₂ synthesis via selective suppression of cyclooxygenase-2 in IFN- γ /LPS-stimulated macrophages. *Molecules* 2011. 16: 9728-9738.
22. **Khozirah Shaari**, Velan Suppaiah Lam Kok Wai, Johnson Stanslas, Bimo Ario Tejo, Daud Israf Ahmad, Faridah Abas, Intan Safinar Ismail, Nor Hasifi Shuaib, Seema Zareen and Nordin Hj. Lajis. Bioassay-guided identification of an anti-inflammatory prenylated acylphloroglucinol from *Melicope ptelefolia* and molecular insights into its interaction with 5-lipoxygenase. *Bioorganic Medicinal Chemistry*, 2011. 19:6340-6347.
23. **Khozirah Shaari**, Seema Zareen, Muhammad Nadeem Akhtar and Nordin Hj. Lajis. Chemical constituents of *Melicope ptelefolia*. *Natural Product Communications*. 2011. 6(3): 343-348
24. Fadzly Adzhar Kamarulzaman, **Khozirah Shaari**, Anthony Siong Hock Ho, Nordin Haji Lajis, Hong Boon Lee. Derivatives of Pheophorbide-*a* and -*b* from Photo-cytotoxic *Piper penangense* extract. *Chemistry & Biodiversity*. 2011. doi: 10.1002/cbdv.201000341
25. **S. Khozirah**, A. Noor Rain, M.J. Siti Najila, Z. Imiyabir, L. Madani, C. Rohaya, M. Rosilawati, H. Nuziah, S.H. Goh, I. Zakiah. *In vitro* antiplasmodial properties of selected plants of Sabah. *Pertanika JST*. 2011. 19(1): 11-17.
26. Nor Hassifi Shuib, Alfi Khatib, **Khozirah Shaari**, Maulidiani, Ralf Kneer, Seema Zareen, Salahudin Mohd. Raof, and Nordin Hj.Lajis. Discrimination of Young and Mature Leaves of *Melicope ptelefolia* using ¹H High Field NMR and Multivariate Data Analysis. *Food Chemistry*. 2010. 126: 640-645
27. A.M. Padzil, M.R. Sulaiman, **Khozirah Shaari**, Syamimi Khalid, WM Shaik Mossadeq, Tengku Azam Shah Tengku Mohamad, A. Syahida, D.A. Israf and Nordin Hj Lajis. Antinociceptive activity of *Melicope ptelefolia* ethanolic extract in experimental animals. *J. Biomedicine & Biotechnology*. 2010. DOI: 1155/2010/937642
28. M. Iqbal Choudhary, Muhammad Ismail, **Khozirah Shaari**, Ahmed Abbaskhan, Samina A. Sattar, Nordin Hj.Lajis and Atta-Ur-Rahman. *Cis*-Clerodane-type furanoditerpenoids from *Tinospora crispa*. *J. Nat. Prod.*, 2010. 73: 541-547
29. Faridah Abas, **Khozirah Shaari**, D.A. Israf, Suryati Syafri, Zurina Zainal, Nordin Hj. Lajis. LC-DAD-ESI-MS analysis of nitric oxide inhibitory fractions of tenggek burung (*Melicope ptelefolia* Champ ex Benth). *J. Food Comp. Anal.*, 2010. 23: 107-112
30. Ahmad, R., Mahbob, E.N.M., Noor, Z.M., Ismail, N.H., Lajis, N.H., **Shaari, K.** Evaluation of antioxidant potential of medicinal plants from Malaysian Rubiaceae (subfamily Ruboideae). 2010. *African Journal of Biotechnology*, 9 (46): 7948-7954.
31. Choudhary, M.I., Ismail, M., Alia, Z., **Shaari, K.**, Lajis, N.H., Atta-ur-Rahman. Alkaloidal constituents of *Tinospora crispa*. 2010. *Natural Product Communications*, 5 (11): 1747-1750.
32. Gwendoline Cheng Lian Ee, Chyi Meei Lim, Mawardi Rahmani, **Khozirah Shaari** and Choon Fah Joseph Bong. Pellitorine, a potential anti-cancer lead compound against HL60 and MCT-7 cell lines and microbial transformation of piperine from *Piper nigrum*. *Molecules*, 2010. 15: 2398-2404.
33. N.A.M. Ali, M. Rahmani, **K. Shaari**, A.M. Ali & G. Ee. Cheng Lian. Antimicrobial activity of *Cinnamomum impressicostatum* and *C. pubescence* and bioassay-guided isolation of bioactive (*E*)-methyl cinnamate. *J. Biol. Sciences*. 2010. 1: 1-6
34. **S. Khozirah**, A. Noor Rain, M.J. Siti Najila, Z. Imiyabir, L. Madani, C. Rohaya, M. Rosilawati, H. Nuziah, S.H. Goh, I. Zakiah. *In vitro* antiplasmodial properties of selected plants of Sabah. *Pertanika JST*. In press.
35. Abas, F., N. H. Lajis, **Khozirah S.**, D. A. Israf, Suryati, Z. Zurina., Online HPLC-DAD-ESI-MS/MS Profiling of the NO Inhibitory Fractions of *Melicope ptelefolia*. *Journal of Food Composition and Analysis*, 23, 107-112 (2010)

36. Gwendoline Cheng Lian Ee, Chyi Meei Lim, Mawardi Rahmani, **Khozirah Shaari** and Choon Fah Joseph Bong. Pellitorine, a potential anti-cancer lead compound against HL60 and MCT-7 cell lines and microbial transformation of piperine from *Piper nigrum*. *Molecules*, 2010. 15: 2398-2404.
37. N.A.M. Ali, M. Rahmani, **K. Shaari**, A.M. Ali & G. Ee. Cheng Lian. Antimicrobial activity of *Cinnamomum impressicostatum* and *C. pubescence* and bioassay-guided isolation of bioactive (*E*)-methyl cinnamate. *J. Biol. Sciences*. 2010. 1: 1-6
38. M. Iqbal Choudhary, Muhammad Ismail, **Khozirah Shaari**, Ahmed Abbaskhan, Samina A. Sattar, Nordin H. Lajis and Atta-ur-Rahman. *cis*-Clerodane-Type Furanoditerpenoids from *Tinospora crispa*. *J. Nat.Prod.* 73: 541-547 (2010)
39. Ee G.C.L., Lim C.M, Lim C.K., Rahmani M., **Shaari K.** & Bong C.F.J.. Alkaloids from *Piper sarmentosum* and *Piper nigrum*. *Natural Product Research*. 2009. 23 (15): 1416-1423 (2010)
40. Md. Lip Jabit, Fatma Sri Wahyuni, Rozida Khalid, Daud Ahmad Israf, **Khozirah Shaari**, Nordin Hj. Lajis, Johnson Stanlas. Cytotoxic and nitric oxide inhibitory activities of methanol extracts of *Garcinia* species. *Pharmaceutical Biology*. 2009. 47(11): 1019-1026.
41. Maulidiani, **Khozirah Shaari**, Christian Paetz, Johnson Stanlas, Faridah Abas & Nordin Hj.Lajis. Naturally occurring labdane diterpene and benzofuran from *Globba pendula*. *Natural Product Communications*. 2009. 4(8): 1031-1036.
42. Nabil, A.N., **Khozirah, S.**, Abas, F., N.H. Lajis, 2009. Phenolic acids from the leaves of *Odontosoria chinensis*, ACGC Chem. Res. Communication, 23, 44-47.
43. Tan Pei Jean **Khozirah Shaari**, Christian Paetz, Intan Safinar Ismail, Faridah Abas, Nordin H. Lajis, and Viqar Uddin Ahmad. Bidesmosidic oleanane saponins from *Xerospermum noronhianum*. *Helvetica Chimica Acta*. 92(10): 1973-1982 (2009).
44. Ka-Heng Lee, Farida Haryani Ab. Aziz, Ahmad Syahida, Faridah Abas, **Khozirah Shaari**, Daud Israf Ali and Nordin Hj. Lajis. Synthesis and biological evaluation of curcumin-like diarylpentanoid analogues for anti-inflammatory, antioxidant and anti-tyrosinase activity. *European Journal of Medicinal Chemistry*. 44: 3195-3200. (2009).
45. Ee G.C.L., Lim C.M, Lim C.K., Rahmani M., **Shaari K.** & Bong C.F.J. Alkaloids from *Piper sarmentosum* and *Piper nigrum*. *Natural Product Research*. 23 (15): 1416-1423. (2009)
46. **Khozirah Shaari**, Kee Cheng Ling, Zalilawati Mat Rashid, Tan Pei Jean, Faridah Abas, Salahudin Mohd. Raof, Zurina Zainal, Nordin Hj. Lajis, Habsah Mohamad and Abdul Manaf Ali. Cytotoxic aaptamines from Malaysia *Aaptos aaptos*. *Marine Drugs*, 7: 1-8. (2009)
47. Tan Pei Jean, Intan Safinar Ismail, Faridah Abas, Nordin Hj.Lajis and **Khozirah Shaari**. Flavonoid Glycosides and Benzoic Acid Derivatives from *Xerospermum noronhianum*. *ACGC Chem. Res. Comm.* 22:63-66. (2008).
48. Muhajir Hamid, Siti Pauliena Mohd. Bohari, Mohd. Saufi Bastami, Abdul Manaf Ali, Nik Musa'dah Mustapha and **Khozirah Shaari**. 2008. Evaluation of the insulinotrophic activity of Malaysian traditional plant extract. *J. Biol. Sci.*, 8(1): 201-204
49. Koushik Saha, Nordin Hj. Lajis, Faridah Abas, Nabil Ali Naji, A. Sazali Hamzah & **Khozirah Shaari**. Halophenol rearrangement in Lewis acid catalyzed Fridel-Crafts Conditions: Evidence of competitive initial protonation and acylation. *Aust. J. Chem.* 61: 821-825. (2008).
50. Rozida Mohd. Khalid, Md. Lip Jabit, Faridah Abas, Johnson Stanlas, **Khozirah Shaari** & Nordin H. Lajis. Cytotoxic xanthonones from leaves of *Garcinia urophylla*. *Natural Product Communications* 2: 271-276. (2007)
51. Khalid A. Shadid, **Khozirah Shaari**, Faridah Abas, Daud A. Israf, Ahmad S. Hamzah, Normawati Syakroni, Khoushik Saha and Nordin Hj. Lajis. Cytotoxic caged-prenylated xanthonoids and a xanthone from *Garcinia catleyana*. *Phytochemistry* 68: 2537-2544. (2007)
52. Sharin Ruslay, Faridah Abas, **Khozirah Shaari**, Zurina Zainal, Maulidiani, Hasnah Sirat, Daud Ahmad Israf, Nordin H. Lajis. Characterization of the active components from health gingers (*Curcuma xanthorrhiza* and *Zingiber zerumbet*) by HPLC-DAD-ESIMS. *Food Chemistry* 104: 1183-1191. (2007)
53. Faridah Abas, Nordin H. Lajis, D. A. Israf, S. **Khozirah** & Y.Umi Kalsum. Antioxidant and nitric oxide inhibition activities of selected Malay traditional vegetables. *Food Chemistry* 95:566-573. (2006).
54. Abas, F., Lim Siang Hui, Syahida Ahmad, Johnson Stanlas, D. A. Israf, **K. Shaari**, and Nordin H. Lajis, 2006. Biological Evaluation of Curcumin and Related Diarylheptanoids. *Z.Naturforsch*, 61c, 625-631.

55. 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. Atrovirone inhibits pro-inflammatory mediator release from murine macrophages and human whole blood. *Immunology & Cell Biology* 84: 250-258. (2006).
56. Syahida, A., Israf D.A., Lajis, N.H., **Khozirah, S.**, Habsah, M., Jasril, Permana, D. & Norhadiani, I. Effect of compounds isolated from natural products on IFN- γ /LPS-induced nitric oxide production in RAW 264.7 macrophages. *Pharmaceutical Biology* 44(1): 50-59. (2006).
57. 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. Cardamonin inhibits pro-inflammatory mediators in activated RAW 264.7 cells and whole blood... *European Journal of Pharmacology* 538: 188-194. (2006)
58. Israf, D.A., Khaizurin, T.A., Syahida, A., Lajis, N.H. & **Khozirah, S.** Cardamonin inhibits COX and iNOS expression via inhibition of p65NF- κ B nuclear translocation and I κ -B phosphorylation in RAW 264.7 macrophage cells. *Molecular Immunology* (in press). (2006).
59. Suet Lin Chia, Wen Siang Tan, **Khozirah Shaari**, Noorsaadah Abdul Rahman, Khatijah Yusoff and Seetharama D. Satyanarayanajois. Structural analysis of peptides that interact with Newcastle disease virus. *Peptides*. 27: 1217-1225. (2006)
60. Faridah Abas, Nordin Hj. Lajis, **Khozirah Shaari**, Daud Ahmad Israf, Johnson Stanslas, Umi Kalsum Yusof and Salahuddin Mohd. Raof. A labdane diterpene glucoside from the rhizomes of *Curcuma mangga*. *J. Nat. Prod.* 68:1090-1093. (2005).
61. Rohaya Ahmad, Abdul manaf Ali, D.A. Israf, Nor Hadiani Ismail, **Khozirah Shaari** and Nordin Hj. Lajis. *Life Sciences* Antioxidant, radical scavenging, antibacterial, cytotoxic and anti-inflammatory activity of methanolic extracts of some *Hedyotis* species. 76: 1953-1968. (2005).
62. **Khozirah Shaari**, Suryati, Faridah Abas, Nordin Hj. Lajis and D.A. Israf..A geranylacetophenone from the leaves of *Melicope ptelefolia*. *Nat. Prod. Research* 20(5): 415-419. (2005).
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11. Patent

Leukotriene inhibitor and method for producing the same

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