

布劃分 5 表2、牛樟芝培育方法及其差異性比較16 表3、HPLC分析條件28 表4、三階層三變數之實驗設計反應參數32 表5、三階層三變數之Box-behnken實驗設計33 表6、不同萃取溶劑及萃取時間之Lab值52 表7、三階層三變因對於樟芝子實體萃取三?膚t量之影響62 表8、三階層三變因條件下最佳萃取條件68 表9、不同分子模板在樟芝萃取液中之吸附效果70

REFERENCES

- 1.水野卓和川合正允著，賴慶亮譯。1997。菇類的化學，生化學。國立編譯館。
- 2.王元林、鄧敏銳。2005。東南亞檳榔文化探析。世界民族3:63-69。
- 3.王立青、江榮高、陳蕙芳。2005。厚樸酚與厚樸酚藥理作用的研究進展。中草藥。36(10): 1591-1593。
- 4.王柏森。2008。樟芝(*Antrodia cinnamomea*)固態發酵培養產物之成分分析與抗氧化活性之研究。國立屏東科技大學生物科技研究所碩士論文。屏東。
- 5.王雅欣。2008。樟芝抗發炎活性成分及其研究。國立中興大學農藝學系所碩士論文。台中。
- 6.王瑛、艷華、偉明。2010。藥三?衛? X物提取純化工藝的研究進展。黑龍江醫藥。23(2):226-228。
- 7.安寶貞、黃德昌、王姻婷。2002。台灣茗葉與茗花病原菌之鑑定。植物病理學會刊。11(4):179-188。
- 8.朱海文。2005。牛樟芝椴木培養之研究探討。朝陽科技大學應用化學系所碩士論文。台中。
- 9.何其典。2002。以回應曲面法探討樟芝高密度發酵。國立交通大學生物科技研究所碩士論文。新竹。
- 10.李宛蓁。2003。樟芝菌絲體培養與生理活性成分生成之研究。東海大學化學工程研究所碩士論文。台中。
- 11.李思穎。2002。檳榔嚼塊對口腔上皮細胞轉錄因子NF-kB活性之調控。國立陽明大學口腔生物研究所碩士論文。台北。
- 12.李淑玲、許美智。2003。營養增補劑 - 靈芝之探討。大專體育(64):165-167。
- 13.岳楓。2010。台灣宏寶石牛樟芝。商訊文化事業股份有限公司。台北。
- 14.林志遠。2005。牛樟芝子實體形成之探討。國立東華大學生物技術研究所碩士論文。花蓮。
- 15.高郁婷。2004。牛樟抽出物及精油對樟芝菌絲及子實體生長之影響。國立台灣大學環境暨資源學研究所碩士論文。台北。
- 16.程一華。1994。樟芝之成分研究。國立台灣師範大學化學研究所碩士論文。台北。
- 17.張上鎮。2003。牛樟抽出成分的分離、鑑定對牛樟菇生長之影響。行政院農業委員會林務局委託研究計畫。國立台灣大學森林系。台北。
- 18.張東柱、邱文慧、華傑。1997。台灣木生性無褶菌培養彩色圖鑑(第二輯)。食品工業發展研究所。
- 19.張家祥。2008。不同中草藥或精油於樟芝固態栽培菌絲體之生物活性成分的影響。私立大葉大學生物產業科技學系碩士論文。彰化。
- 20.淺井一彥。1969。教學和醫學。日本。
- 21.陳書豪。2006。探討樟芝的溫度變化對液態發酵與固態發酵生產三?衛?P多醣體之影響。國立中央大學化學工程與材料工程研究所博士論文。桃園。
- 22.陳清農、陳勁初、張基煌、喬長誠。1999。樟芝揮發性成分之研究。中華民國食品科學技術學會第二十九次會員大會論文摘要。台灣。
- 23.黃惠琴。2001。樟芝菌絲體深層培養之研究。私立東海大學化學工程所碩士論文。台中。
- 24.黃惟敏。1999。樟芝微量成分的研究()。靜宜大學應用化學研究所碩士論文。台中。
- 25.楊耀銘。2009。牛樟芝讓生命更豐富。巨耀股分有限公司。台北。
- 26.楊騰緯。2008。樟芝培養之研究探討。私立朝陽科技大學生物技術研究所碩士論文。台中。
- 27.劉景仁。2007。探討誘發劑及兩階段培養對樟芝深層發酵三?衛?峽從蠶@用之影響。國立臺灣大學食品科技研究所碩士論文。台北。
- 28.潘若芝。2004。不同培養方式對樟芝多醣及乙醇抽出物生產之研究。私立大葉大學生物產業科技學系碩士論文。彰化。
- 29.薛姿涓。2005。培養條件對樟芝菌絲固態培養之影響。東海大學化學工程學系碩士論文。台中。
- 30.?軀殮R。2008。不同萃取方法對段木及醱酵培養牛樟芝活性成分產量分析之研究。私立大葉大學生物產業科技學系碩士論文。彰化。
- 31.藤田安二。1952。及 之近似種的、成分的、分佈的，進化的諸關係。Botanical Magazine。65, 245-250。日本。
- 32.藤田安二。1967。精油成分 見 屬 分類 系統。Botanical Magazine。80, 261-271。日本。
- 33.Ainsworth, G. C., Sparrow, F. K., Sussman, A. S., 1973. A taxonomic review with keys: Ascomycetes and fungi imperfecti. Academic Press. Inc. p.621. New York and London.
- 34.B ereng'ere Claude, Philippe Morin, Michel Lafosse, Anne-Sophie Belmont, Karsten Haupt., 2008. Selective solid-phase extraction of a triterpene acid from a plant extract by molecularly imprinted polymer. Talanta 75 :344 – 350.
- 35.Cares, M.G., Vargas, Y., Gaete, L., Sainz, J., Alarc?曝, J., 2010. Ultrasonically assisted extraction of bioactive principles from *Quillaja Saponaria* Molina. Physics Procedia. 3(1):169-178.
- 36.Chan, Y. Y., Chang, C. S., Chien, L. H., Wu, T. F., 2010. Apoptotic effects of a high performance liquid chromatography (HPLC) fraction of *Antrodia camphorata* mycelia are mediated by down-regulation of the expressions of four tumor-related genes in human non-small cell lung carcinoma A549 cell. J Ethnopharmacol.127(3): 652-661.
- 37.Chang, T.T., Chou, W. N., 1995. *A. cinnamomea* sp. novel on *Cinnamomum kanehirai* in Taiwan. Mycol. Res. 99: 756-758.
- 38.Chang., et. al., 2010. united states Patent application publication. US 2010/0304495 A1.
- 39.Chen, Q.H., Fu, M.L., Liu, J., Zhang, H.F., He, G.Q., Ruan, H., 2009. Optimization of ultrasonic-assisted extraction (UAE) of betulin from white birch bark using response surface methodology. Ultrasonics Sonochemistry. 16(5): 599-604.
- 40.Cherng, I.H., Wu, D.P., Chiang, H. C., 1996. Triterpenoids from *A. cinnamomea*. Phytochem. 41(1):263-267.
- 41.Cherng, I.W., Chiang, H.C., 1995. Three new triterpenoids from *Antrodia camphorata*. J. Nat. Prod. 58:365-371.
- 42.Chiang, H.C., Wu, D.P., Cherng, I.H., Ueng, C.H.A., 1995. Sesquiterpene lactone, phenyl and biphenyl compounds from *A. cinnamomea*. Phytochem. 39(3):613-616.
- 43.Chiang, H.C., Wu, D.P., Cherng, I.H., Ueng, C.H.A., 1995. Sesquiterpene lactone, phenyl and biphenyl compounds from *A. cinnamomea*. Phytochem. 39(3):613-616.
- 44.Chibata, I., Okumura, K., Takeyama, S., Kotera, K., 1969. Experientia. Food science 25:1237.
- 45.Cossuta, D., Sim?鴨di,B., V?鬚i, E., Hohmann, J., Prechl, A., Lemberkovics, ??, K?臆y, L ??, Keve, T., 2008. Supercritical fluid extraction of *Vitex agnus castus* fruit. The Journal of Supercritical Fluids. 47(2): 188-194.
- 46.Dong, J., Liu, Y., Liang, Z., Wang, W., 2010. Investigation on ultrasound-assisted extraction of salvianolic acid B from *Salvia miltiorrhiza* root. Ultrasonics Sonochemistry. 17(1):61-65.
- 47.Hawksworth, D. L., Kirk, P. M., Sutton, B. C., & Pegler, D. N., 1999. Dictionary of the fungi. International Mycological Institute. Taiwan.
- 48.Lee, I.H., Chen, C.T., Chen, H.C., Hsu, W.C., Lu, M.K., 2002. Sugar flux in response to carbohydrate-feeding of cultured *Antrodia camphorata*, a recently described medicinal fungus in Taiwan. J. Chinese Med. 13(1):21-31.
- 49.Lee, I.H., Huang, R.L., Chen, C.T., Chen, H.C., Hsu, W.C., Lu, M.K., 2002. *Antrodia camphorata* polysaccharides exhibit anti-hepatitis B virus effects. Fems microbiol lett. 209(1): 61-65.
- 50.Leung, Y.W., Wang, Y., 2001. An orthogonal genetic algorithm with

quantization for global numerical optimization, *IEEE Trans. Evolutionary Computation* 15 (1): 41-53, 2001.

51. Li, J., Zu, Y.G., Fu, Y.J., Yang, Y.C., Li, S.M., Li, Z.N., Wink, M., 2010. Optimization of microwave-assisted extraction of triterpene saponins from defatted residue of yellow horn (*Xanthoceras sorbifolia* Bunge.) kernel and evaluation of its antioxidant activity. *Innovative Food Science & Emerging Technologies*. 11(4): 637-643.

52. Li, Yan-qun., Zhang, Ke-chang. 2003 The effect of 12 kinds of chinese traditional medicines on submerged cultivation of gano derma lucidum. *Food and Fermentation Industries*. 29(3):38-40.

53. Lin, E.S., Chen, Y.H., 2007. Factors affecting mycelial biomass and exopolysaccharide production in submerged cultivation of *Antrodia cinnamomea* using complex media. *Bioresource technol.* 98(13):2511-2517.

54. Lin, S.C., Chang, J., Deng, T.S., 2009. Enzymatic hot pressurized fluids extraction of polyphenolics from *Pinus taiwanensis* and *Pinus morrisonicola*. *J taiwan inst chem e.* 40(2): 136-142.

55. Lu, Z.M., Tao, W.Y., Xu, H.Y., Ao, Z.H., Zheng, H., 2008. Quantitative analysis of triterpenoids from *Antrodia camphorata* in submerged culture. *Chinese Traditional Patent Medicine*. 30(3):402-405.

56. Maggio, A.E.De., Lott, J.A., 1964. Application of ultrasound for increasing alkaloid yield from *datura*. *J. Pharm. Sci.* 53:495.

57. Margaret, E.L., Smith, J.F., Randle, P.E., 1983. The effect of insulated covers on mushroom compost-stack temperatures. *Scientia Horticulturae*. 20(1):53-59.

58. Masuda A., Akiyama S., Kuwano M., 1982. Potentiation of antifungal effect of amphotericin B by squalene, an intermediate for sterol biosynthesis. *J.J Antibiot.* 35(2):230-240.

59. M. Song, T.J., Hang, Y., Wang, L. Jiang, X.L., Wu, Z., Zhang, J., Shen, I., Zhang, J., 2006. *Anal.* 40: 190 – 196.

60. Park, S. H., 1996. *Robust Design and Analysis for Quality Engineering*. Chapman & Hall.

61. Phadke, M.D., 1989. *Quality Engineering Using Robust Design*. Englewood Cliffs, NJ:Prentice-Hall.

62. Phillips, D.R., Rasbery, Jeanne M., Bartel, B., Matsuda, Seiichi P.T., 2008. Biosynthetic diversity in plant triterpene cyclization. *Curr opin plant biol* . 9(3):305-314.

63. Reddy, L. Harivardhan., Couvreur, Patrick, 2009. Squalene: A natural triterpene for use in disease management and therapy. *Advanced Drug Delivery Reviews*. 61(15): 1412-1426.

64. Senthil Kumar, K.J., Chu, F. H., Hsieh, H. W., Liao, J. W., Li, W. H., Lin, J. C. C., Shaw, J. F., Wang, S. Y., 2011. Antroquinonol from ethanolic extract of mycelium of *Antrodia cinnamomea* protects hepatic cells from ethanol-induced oxidative stress through Nrf-2 activation. *J Ethnopharmacol.* 136(1):168-177.

65. Shih, I.L., Pan, K., Hsieh, C., 2006. Influence of nutritional components and oxygen supply on the mycelial growth and bioactive metabolites production in submerged culture of *A. cinnamomea*. *Process Biochemistry*. 41:1129 – 1135.

66. Vinatoru, Mircea, 2001. An overview of the ultrasonically assisted extraction of bioactive principles from herbs. *Ultrason sonochem.* 8(3):303-313.

67. V. Andrisano, D. Bonazzi, V. Cavrini, *J. Pharm. Biomed.*, 1995. *Anal.* 13 (1995) 597 – 605.

68. Yang, F.C., Huang, H.C., Yang, M.J., 2003. The influence of environmental conditions on the mycelial growth of *Antrodia cinnamomea* in submerged cultures. *Enzyme microb tech.* 33(4): 395-402.

69. Yang, S. W., Shen, Y. C., Chen, C. H., 1996. Steroids and triterpenoids of *A. cinnamomea*—A fungus parasitic on *Cinnamomum micranthum*. *Phytochem.* 41(5):1389-1392.

70. Young, D.S., Chiang, H.C., Liu, L.K., 1998. Identification of bioactive components in *A. cinnamomea* by MS/MS via EI ionization. *J. Chinese Chem. Soc.* 45:123-129.

71. Zhang, H.F., Yang, X.H., Zhao, L.D., Wang, Y., 2009. Ultrasonic-assisted extraction of epimedin C from fresh leaves of *Epimedium* and extraction mechanism. *Innov food sci emerg.* 10:54-60.

72. Zhao, J., Davis, Lawrence C., Verpoorte R., 2005. Elicitor signal transduction leading to production of plant secondary metabolites. *Biotechnol adv.* 23(4):283-333.

73. Zong-Hua Ao, Zheng-Hong Xu, Zhen-Ming Lu, Hong-Yu Xu, Xiao-Mei Zhang, Wen-Fang Dou, 2009. *Niuchangchih* (*Antrodia camphorata*) and its potential in treating liver diseases. *J Ethnopharmacology*. 121:194-212.