

## REFERENCES

- 1 Irwin K. Fruits, vegetables, teas may protect smokers from lung cancer. [monograph on the Internet]. Los Angeles: University of California; 2008 [cited 2015 May 23]. Available from <http://newsroom.ucla.edu/releases/fruits-vegetables-and-teas-may-51210>
- 2 Young IS, Woodside JV. Antioxidants in health and disease. *J Clin Pathol.* 2001;54(3):176-86.
- 3 Chong HZ, Yeap SK, Rahmat A, Akim AM, Alitheen NB, Othman F, et al. *In vitro* evaluation of *Pandanus amaryllifolius* ethanol extract for induction of cell death on non-hormone dependent human breast adenocarcinoma MDA-MB-231 cell via apoptosis. *BMC Complement Altern Med.* 2012;12:134.
- 4 Cheeptham N, Towers GH. Light-mediated activities of some Thai medicinal plant teas. *Fitoterapia.* 2002;73(7-8):651-62.
- 5 Lee BL, Su J, Ong CN. Monomeric C<sub>18</sub> chromatographic method for the liquid chromatographic determination of lipophilic antioxidants in plants. *J Chromatogr A.* 2004;1048:263-7.
- 6 Buttery RG, Ling LC, Mon TR. Quantitative analysis of 2-acetyl-1-pyrroline in rice. *J Agric Food Chem.* 1986;34(1):112-4.
- 7 Paule CM, Powers JJ. Sensory and chemical examination of aromatic and non-aromatic rices. *J Food Sci.* 1989;54(2):343-6.
- 8 Dumaoal OR, Alaras LB, Dahilan KG, Depadua SA, Pulmones CJ. *In vitro* activity of pandan (*Pandanus amaryllifolius*) leaves crude extract against selected bacterial isolates. *J Philip Assoc Inst Res.* 2010;4(1):101-24.
- 9 Ooi LS, Sun SS, Ooi VE. Purification and characterization of a new antiviral protein from the leaves of *Pandanus amaryllifolius* (Pandanaceae). *Int J Biochem Cell Biol.* 2004;36(8):1440-6.

- 10 Ooi VE, Chiu LC, Sun SS, Chan PK, Wong HN. Antiviral activity of Chinese medicine-derived phytochemicals against avian influenza A (H5N1) virus. *Hong Kong Med J*. 2014;20:37-41.
- 11 Saenghong N, Wattanathorn J, Muchimapura S, Tongun T, Piyavhatkul N, Banchonglikitkul C, et al. *Zingiber officinale* improves cognitive function of the middle-aged healthy women. *Evid Based Complement Alternat Med*. 2012.
- 12 Agarwal P, Alok S, Fatima A, Singh PP. Herbal Remedies for neurodegenerative disorder (Alzheimer's disease): A review. *Int J Pharm Sci Res*. 2013;4(9):3328-40.
- 13 Nor FM, Mohamed S, Idris NA, Ismail R. Antioxidative properties of *Pandanus amaryllifolius* leaf extracts in accelerated oxidation and deep frying studies. *Food Chem*. 2008;110:319-27.
- 14 Alzheimer's disease education & referral (ADEAR) center. Alzheimer's disease medications fact sheet. NIH publication. 2012.
- 15 Wimo A, Prince M, editors. World Alzheimer Report 2010; the global economic impact of dementia. *Alzheimers Dis Int*. 2010.
- 16 Aekplakorn W, Porapakkham Y, Taneepanichskul S, Pakcharoen H, Satheannoppakao W, Thaikla K. National Health Examination Survey Thailand IV 2008-2009. Aekplakorn W, editor. Bangkok, Thailand: The graphic in the system; 2010.
- 17 Wangtongkum S, Sucharitkul P, Silprasert N, Intrachak R. Prevalence of dementia among population age over 45 years in Chiang Mai, Thailand. *J Med Assoc Thai*. 2008;91(11):1685-90.
- 18 Alzheimer's Association. 2013 Alzheimer's disease facts and figures. *Alzheimers Dement*. 2013;9(2):208-45.
- 19 Monczor M. Diagnosis and treatment of Alzheimer's disease. *Curr Med Chem-Cent Nerv Syst Agents*. 2005;5(1):1-9.
- 20 Scarpini E, Scheltens P, Feldman H. Treatment of Alzheimer's disease; current status and new perspectives. *Lancet Neurol*. 2003;2(9):539-47.
- 21 Parihar MS, Hemnani T. Alzheimer's disease pathogenesis and therapeutic interventions. *J Clin Neurosci*. 2004;11(5):456-67.

- 22 Jung HA, Min BS, Yokozawa T, Lee JH, Kim YS, Choi JS. Anti-Alzheimer and antioxidant activities of *Coptidis Rhizoma* alkaloids. *Biol Pharm Bull.* 2009;32(8):1433-8.
- 23 Galasko D, Hansen LA, Katzman R, Wiederholt W, Masliah E, Terry R, et al. Clinical-neuropathological correlations in Alzheimer's disease and related dementias. *Arch Neurol.* 1994;51(9):888-95.
- 24 Botti SA, Felder CE, Lifson S, Sussman JL, Silman I. A modular treatment of molecular traffic through the active site of cholinesterase. *Biophys J.* 1999;77(5):2430-50.
- 25 Massoulié J, Pezzementi L, Bon S, Krejci E, Vallette FM. Molecular and cellular biology of cholinesterases. *Prog Neurobiol.* 1993;41(1):31-91.
- 26 Dave KR, Syal AR, Katyare SS. Tissue cholinesterases. A comparative study of their kinetic properties. *Z Naturforsch C.* 2000;55(1-2):100-8.
- 27 Soreq H, Zaku H. Human cholinesterases and anticholinesterases. *J Neurochem.* 1993;17(1).
- 28 Edwards JA, Brimijoin S. Divergent regulation of acetylcholinesterase and butyrylcholinesterase in tissues of the rat. *J Neurochem.* 1982;38(5):1393-403.
- 29 Bartus RT, Dean RL, Beer B, Lippa AS. The cholinergic hypothesis of geriatric memory dysfunction. *Science.* 1982;217(4558):408-14.
- 30 Giacobini E. Cholinesterase inhibitors stabilize Alzheimer's disease. *Ann N Y Acad Sci.* 2000;920:321-7.
- 31 Tasso B, Catto M, Nicolotti O, Novelli F, Tonelli M, Giangreco I, et al. Quinolizidinyl derivatives of bi- and tricyclic systems as potent inhibitors of acetyl- and butyrylcholinesterase with potential in Alzheimer's disease. *Eur J Med Chem.* 2011;46(6):2170-84.
- 32 Akman E, Turkoglu V, Celik I. Purification and characterization of Van Lake fish (*Chalcalburnus tarichii* P.1811) liver and brain acetylcholinesterase. *Hacettepe J Biol & Chem.* 2009;37(4):331-6.
- 33 Bellelli G, Lucchi E, Minicuci N, Rozzini L, Bianchetti A, Padovani A, et al. Results of a multi-level therapeutic approach for Alzheimer's disease

- subjects in the real world (CRONOS project): a 36-week follow-up study. *Aging Clin Exp Res*. 2005;17(1):54-61.
- 34 Chow VW, Mattson MP, Wong PC, Gleichmann M. An overview of APP processing enzymes and products. *Neuromolecular Med*. 2010;12(1):1-12.
  - 35 Hooper NM, Karran EH, Turner AJ. Membrane protein secretases. *Biochem J*. 1997;321:265-79.
  - 36 Checler F. Processing of the beta-amyloid precursor protein and its regulation in Alzheimer's disease. *J Neurochem*. 1995;65(4):1431-44.
  - 37 Nitsch RM, Growdon JH. Role of neurotransmission in the regulation of amyloid beta-protein precursor processing. *Biochem Pharmacol*. 1994;47(8):1275-84.
  - 38 Kontush A. Amyloid-beta: an antioxidant that becomes a pro-oxidant and critically contributes to Alzheimer's disease. *Free Radic Biol Med*. 2001;31(9):1120-31.
  - 39 Puglielli L, Tanzi RE, Kovacs DM. Review Alzheimer's disease: the cholesterol connection. *Nat Neurosci*. 2003;6(4):345-51.
  - 40 Paula VJR, Guimarães FM, Diniz BS, Forlenza OV. Neurobiological pathways to Alzheimer's disease: amyloid-beta, tau protein or both?. *Dement Neuropsychol*. 2009;3(3):188-94.
  - 41 Goedert M, Spillantini MG, Jakes R, Rutherford D, Crowther RA. Multiple isoforms of human microtubule-associated protein tau: sequences and localization in neurofibrillary tangles of Alzheimer's disease. *Neuron*. 1989;3(4):519-26.
  - 42 Lee G, Cowan N, Kirschner M. The primary structure and heterogeneity of tau protein from mouse brain. *Science*. 1988;239(4837):285-288.
  - 43 Cleveland DW, Hoffman PN. Neuronal and glial cytoskeletons. *Curr Opin Neurobiol*. 1991;1(3):346-53.
  - 44 Taniguchi T, Kawamata T, Mukai H, Hasegawa H, Isagawa T, Yasuda M, et al. Phosphorylation of tau is regulated by PKN. *J Biol Chem*. 2001;276(13):10025-31.
  - 45 Kanemaru K, Takio K, Miura R, Titani K, Ihara Y. Fetal-type phosphorylation of the tau in paired helical filaments. *J Neurochem*. 1992;58(5):1667-75.

- 46 Lee VM, Goedert M, Trojanowski JQ. Neurodegenerative tauopathies. *Annu Rev Neurosci.* 2001;24:1121-59.
- 47 Lee VM, Balin BJ, Otvos L Jr, Trojanowski JQ. A68: a major subunit of paired helical filaments and derivatized forms of normal tau. *Science.* 1991;251(4994):675-8.
- 48 Ballatore C, Lee V, Trojanowski JQ. Tau mediated neurodegeneration in Alzheimer's disease and related disorders. *Nat Rev Neurosci.* 2007;8(9):663-72.
- 49 Forman MS, Trojanowski JQ, Lee VM. Neurodegenerative diseases: a decade of discoveries paves the way for therapeutic breakthroughs. *Nat Med.* 2004;10(10):1055-63.
- 50 Mandelkow EM, Mandelkow E. Biochemistry and cell biology of tau protein in neurofibrillary degeneration. *Cold Spring Harb Perspect Med.* 2012;2(7).
- 51 Sayre LM, Smith MA, Perry G. Chemistry and biochemistry of oxidative stress in neurodegenerative disease. *Curr Med Chem.* 2001;8(7):721-38.
- 52 Pratico D. Peripheral biomarkers of oxidative damage in Alzheimer's disease: the road ahead. *Neurobiol Aging.* 2005;26(5):581-3.
- 53 Solfrizzi V, D'Introno A, Colacicco AM, Capurso C, Todarello O, Pellicani V, et al. Circulating biomarkers of cognitive decline and dementia. *Clin Chim Acta.* 2006;364(1-2):91-112.
- 54 Mecocci P, Polidori MC, Ingegneri T, Cherubini A, Chionne F, Cecchetti R, et al. Oxidative damage to DNA in lymphocytes from AD patients. *Neurology.* 1998;51(4):1014-7.
- 55 Nunomura A, Perry G, Pappolla MA, Wade R, Hirai K, Chiba S, et al. RNA oxidation is a prominent feature of vulnerable neurons in Alzheimer's disease. *J Neurosci.* 1999;19(6):1959-64.
- 56 Smith MA, Richey PL, Taneda S, Kutty RK, Sayre LM, Monnier VM, et al. Advanced Maillard reaction end products, free radicals, and protein oxidation in Alzheimer's disease. *Ann N Y Acad Sci.* 1994;738:447-54.
- 57 Markesbery WR. Oxidative stress hypothesis in Alzheimer's disease. *Free Radic Biol Med.* 1997;23(1):134-47.

- 58 Butterfield DA, Reed T, Newman SF, Sultana R. Roles of amyloid  $\beta$ -peptide-associated oxidative stress and brain protein modifications in the pathogenesis of Alzheimer's disease and mild cognitive impairment. *Free Radic Biol Med.* 2007;43(5):658-77.
- 59 Su B, Wang X, Lee HG, Tabaton M, Perry G, Smith MA, et al. Chronic oxidative stress causes increased tau phosphorylation in M17 neuroblastoma cells. *Neurosci Lett.* 2010;468(3):267-71.
- 60 Yan SD, Chen X, Schmidt AM, Brett J, Godman G, Zou YS, et al. Glycated tau protein in Alzheimer disease: a mechanism for induction of oxidant stress. *Proc Natl Acad Sci U S A.* 1994;91(16):7787-91.
- 61 Zhang L, Ravipati AS, Koyyalamudi SR, Jeong SC, Reddy N, Smith PT, et al. Antioxidant and anti-inflammatory activities of selected medicinal plants containing phenolic and flavonoid compounds. *J Agric Food Chem.* 2011;59(23):12361-7.
- 62 Praticò D. Evidence of oxidative stress in Alzheimer's disease brain and antioxidant therapy: lights and shadows. *Ann N Y Acad Sci.* 2008;1147:70-8.
- 63 Strittmatter WJ, Saunders A M, Schmechel D, Pericak-Vance M, Enghild J, Salvesen GS, et al. Apolipoprotein E: high-avidity binding to beta-amyloid and increased frequency of type 4 allele in late-onset familial Alzheimer disease. *Proc Natl Acad Sci U S A.* 1993;90(5):1977-81.
- 64 Raber J, Huang Y, Ashfor JW. ApoE genotype accounts for the vast majority of AD risk and AD pathology. *Neurobiol Aging.* 2004;25(5):641-50.
- 65 Block ML, Calderón-Garcidueñas L. Air pollution: mechanisms of neuroinflammation and CNS disease. *Trends Neurosci.* 2009;32(9):506-16.
- 66 Moulton PV, Yang W. Air pollution, oxidative stress, and Alzheimer's disease. *J Environ Public Health.* 2012.
- 67 Arab L, Sabbagh MN. Are certain life style habits associated with lower Alzheimer disease risk?. *J Alzheimers Dis.* 2010;20(3):785-94.
- 68 Hogervorst E, Clifford A, Stock J, Xin X, Bandelow S. Exercise to prevent cognitive decline and Alzheimer's disease: For whom, when, what, and

- (most importantly) how much?. *J Alzheimers Dis Parkinsonism*. 2012;2(3).
- 69 Barnard ND, Bush AI, Ceccarelli A, Cooper J, de Jager CA, Erickson KI, et al. Dietary and lifestyle guidelines for the prevention of Alzheimer's disease. *Neurobiol Aging*. 2014;35:S74-8.
- 70 Dastmalchi K, Dorman HJD, Vuorela H, Hiltunen R. Plants as potential sources for drug development against Alzheimer's disease. *Int J Biomed Pharm Sci*. 2007;1(2):83-104.
- 71 Orhan G, Orhan I, Subutay-Oztekin N, Ak F, Sener B. Contemporary anticholinesterase pharmaceuticals of natural origin and their synthetic analogues for the treatment of Alzheimer's disease. *Recent Pat CNS Drug Discov*. 2009;4(1):43-51.
- 72 Lahiri DK, Farlow MR, Sambamurti K, Greig NH, Giacobini E, Schneider LS. A critical analysis of new molecular targets and strategies for drug developments in Alzheimer's disease. *Curr Drug Targets*. 2003;4(2):97-112.
- 73 Jia Q, Deng Y, Qing H. Potential therapeutic strategies for Alzheimer's disease targeting or beyond  $\beta$ -amyloid: insights from clinical trials. *Biomed Res Int*. 2014.
- 74 Himmelstein DS, Ward SM, Lancia JK, Patterson KR, Binder LI. Tau as a therapeutic target in neurodegenerative disease. *Pharmacol Ther*. 2012;136(1):8-22.
- 75 Small G, Bullock R. Defining optimal treatment with cholinesterase inhibitors in Alzheimer's disease. *Alzheimers Dement*. 2011;7(2):177-84.
- 76 Voy PJ. Pandanus. *Fl China*. 2010;23:128-30.
- 77 Stone BC. Studies in Malesian Pandanaceae XVII on the taxonomy of Pandan Wangi a pandanus cultivar with scented leaves. *Econ Bot*. 1978;32(3):285-93.
- 78 Wakte KV, Nadaf AB, Thengane RJ, Jawali N. *Pandanus amaryllifolius* Roxb. cultivated as a spice in coastal regions of India. *Genet Resour Crop Evol*. 2009;56:735-40.

- 79 Ravindran PN, Balachandran I. Underutilized Medicinal Species-III. Spice India. 2005;18(2):16-24.
- 80 Roxburgh W. *Pandanus amaryllifolius* Roxb. Fl Ind. 1832;3:743.
- 81 Imgid.com [homepage on the internet]. *Pandanus amaryllifolius* leaves spiral image. [cited 2015 May 23]. Available from: <http://imgkid.com/pandanus-amaryllifolius.shtml>
- 82 Gernot-katzers-spice-pages.com [homepage on the internet]. *Pandanus amaryllifolius* apex leave image. [updated 2012 Feb 14; cited 2015 May 23]. Available from: [http://gernot-katzers-spicepages.com/engl/Pand\\_ama.html](http://gernot-katzers-spicepages.com/engl/Pand_ama.html)
- 83 Jaycjayc.com [homepage on the internet]. *Pandanus amaryllifolius* root image. [updated 2011 April 29; cited 2015 May 23]. Available from: <http://www.jaycjayc.com/propagate-pandanus-amaryllifolius-pandanleaf>
- 84 Wardha F, Setyowati M. Ethnobotanical study on the Genus *Pandanus* L. f. in certain areas in Java, Indonesia. Biodiversitas. 2009;10(3):146-50.
- 85 Buttery RG, Ling LC, Juliano BO. 2-Acetyl-1-pyrroline: An important aroma component of cooked rice. Chem Ind. 1982:958-9.
- 86 Laksanalamai V, Ilangantilek S. Comparison of aroma compound (2-acetyl-1-pyrroline) in leaves from pandan (*Pandanus amaryllifolius*) and Thai fragrant rice (Khao Dawk Mali-105). Cereal Chem. 1993;70(4):381-4.
- 87 Nadaf AB, Krishnan S, Wakte KV. Histochemical and biochemical analysis of major aroma compound (2-acetyl-1-pyrroline) in basmati and other scented rice (*Oryza sativa* L.). Curr Sci. 2006;91(11):1533-6.
- 88 Wakte KV, Thengane RJ, Jawali N, Nadaf AB. Optimization of HS-SPME conditions for quantification of 2-acetyl-1-pyrroline and study of other volatiles in *Pandanus amaryllifolius* Roxb. Food Chem. 2010;121(2):595-600.
- 89 Jiang J. Volatile composition of pandan leaves (*Pandanus amaryllifolius*). In: Shahidi F, Ho CT, editors. Flavour chemistry of ethnic foods. New York: Kluwer Academic; 1999. p.105-109.

- 90 Laohakunjit N, Noomhorm A. Supercritical carbon dioxide extraction of 2-acetyl-1-pyrroline and volatile components from pandan leaves. *Flavour Frag J.* 2004;19(3):251-9.
- 91 Chiabchalard A, Nooron N. Antihyperglycemic effects of *Pandanus amaryllifolius* Roxb. leaf extract. *Pharmacogn Mag.* 2015;11(41):117-22.
- 92 Takayama H, Ichikawa T, Kitajima M, Aimi N, Lopez D, Nonato MG. A new alkaloid, pandanamine; finding of an anticipated biogenetic intermediate in *Pandanus amaryllifolius* Roxb. *Tetrahedron Lett.* 2001;42(16):2995-6.
- 93 Jimtaisong A, Krisdaphong P. Antioxidant activity of *Pandanus amaryllifolius* leaf and root extract and its application in topical emulsion. *Trop J Pharm Res.* 2012;12(3):425-31.
- 94 Yan S, Asmah R. Comparison of total phenolic contents and antioxidant activities of turmeric leaf, pandan leaf and torch ginger flower. *Int Food Res J.* 2010;17:417-23.
- 95 Ghasemzadeh A, Jaafar HZ. Optimization of reflux conditions for total flavonoid and total phenolic extraction and enhanced antioxidant capacity in pandan (*Pandanus amaryllifolius* Roxb.) using response surface methodology. *Sci World J.* 2014.
- 96 Oboh G, Ademiluyi AO, Faloye YM. Effect of combination on the antioxidant and inhibitory properties of tropical pepper varieties against  $\alpha$ -amylase and  $\alpha$ -glucosidase activities *in vitro*. *J Med Food.* 2011;14(10):1152-8.
- 97 Ghayur MN, Gilani AH, Ahmed T, Khalid A, Nawaz SA, Agbedahunsi JM, et al. Muscarinic,  $\text{Ca}^{2+}$  antagonist and specific butyrylcholinesterase inhibitory activity of dried ginger extract might explain its use in dementia. *J Pharm Pharmacol.* 2008;60(10):1375-83.
- 98 Kim DS, Kim JY, Han YS. Alzheimer's disease drug discovery from herbs: neuroprotectivity from beta-amyloid (1-42) insult. *J Altern Complement Med.* 2007;13(3):333-40.
- 99 Guo JP, Yu S, McGeer PL. Simple *in vitro* assays to identify amyloid-beta aggregation blockers for Alzheimer's disease therapy. *J Alzheimers Dis.* 2010;19(4):1359-70.

- 100 Grzanna R, Phan P, Polotsky A, Lindmark L, Frondoza CG. Ginger extract inhibits beta-amyloid peptide-induced cytokine and chemokine expression in cultured THP-1 monocytes. *J Altern Complement Med.* 2004;10(6):1009-13.
- 101 Mahdy KA, Gouda N, Marrie AE, Yassin N, El-Shenawy S, Farrag AR, et al. Protective effect of ginger (*Zingiber officinale*) on Alzheimer's disease induced in rats. *J Neuroinfect Dis.* 2014;5:159.
- 102 Mathew M, Subramanian S. *In vitro* evaluation of anti-Alzheimer effects of dry ginger (*Zingiber officinale* Roscoe) extract. *Indian J Exp Biol.* 2014;52(6):606-12.
- 103 Lopez DC, Nonato MG. Alkaloids from *Pandanus amaryllifolius* collected from Marikina, Philippines. *Philipp J Sci.* 2005;134(1):39-44.
- 104 Konrath EL, Passos Cdos S, Klein LC, Henriques AT. Alkaloids as a source of potential anticholinesterase inhibitors for the treatment of Alzheimer's disease. *J Pharm Pharmacol.* 2013;65(12):1701-25.
- 105 AOAC. *Official Methods of Analysis*. 18th edn. Association of Official Analytical Chemists; Arlington, VA, USA: 2005.
- 106 Liu W, Yu Y, Yang R, Wan C, Xu B, Cao S. Optimization of total flavonoid compound extraction from *Gynura medica* leaf using response surface methodology and chemical composition analysis. *Int J Mol Sci.* 2010;11(11):4750-63.
- 107 Ainsworth EA, Gillespie KM. Estimation of total phenolic content and other oxidation substrates in plant tissues using Folin-Ciocalteu reagent. *Nat Protoc.* 2007;2(4):875-7.
- 108 Benzie IF, Strain JJ. The ferric reducing ability of plasma (FRAP) as a measure of antioxidant power: the FRAP assay. *Anal Biochem.* 1996;239(1):70-76.
- 109 Fukumoto LR, Mazza G. Assessing antioxidant and prooxidant activities of phenolic compounds. *J Agric Food Chem.* 2000;48(8):3597-604.
- 110 Ou B, Hampsch-Woodill M, Prior RL. Development and validation of an improved oxygen radical absorbance capacity assay using fluorescein as the fluorescent probe. *J Agric Food Chem.* 2001;49(10):4619-26.

- 111 PANVERA. BACE1 ( $\beta$ -Secretase) FRET Assay Kit, Red; # P2985(Lit. # L0724 Rev. 04/02).
- 112 Azar PA, Nekoei M, Larijani K, Bahraminasab S. Chemical composition of the essential oils of *Citrus sinensis* cv. *Valencia* and a quantitative structure-retention relationship study for the prediction of retention indices by multiple linear regression. *J Serb Chem Soc.* 2011;76(12):1627-37.
- 113 Judprasong K, Charoenkiatkul, S., Thiyajai, P., Sukprasansap, M. Nutrients and bioactive compounds of Thai indigenous fruits. *Food Chem.* 2013;140:507-12.
- 114 Kome D, Horžić D, Belščak A, Ganić KK, Vulić I. Green tea preparation and its influence on the content of bioactive compounds. *Food Res Int.* 2010;43(1):167-76.
- 115 Deetae P, Parichanon P, Trakunleewatthana P, Chanseetis C, Lertsiri S. Antioxidant and anti-glycation properties of Thai herbal teas in comparison with conventional teas. *Food Chem.* 2012;133(3):953-9.
- 116 Sultana B, Anwar F, Ashraf M. Effect of extraction solvent/technique on the antioxidant activity of selected medicinal plant extracts. *Molecules.* 2009;14:2167-80.
- 117 Tay PY, Tan CP, Abas F, Yim HS, Ho CW. Assessment of extraction parameters on antioxidant capacity, polyphenol content, epigallocatechin gallate (EGCG), epicatechin gallate (ECG) and iriflophenone 3-C- $\beta$ -Glucoside of agarwood (*Aquilariacrassna*) young leaves. *Molecules.* 2014;19:12304-19.
- 118 Song JE, Song JH, Cho SM, Min GH, Lee JS. Nutritional characteristics and physiological functionality of antidementia acetylcholinesterase inhibitor-containing methanol extract from *Sorghum bicolor*. *Korean J Food Nutr.* 2010;23(2):226-32.
- 119 Lee JS, Min GH, Lee JS. Nutritional and physicochemical characteristics of the antidementia acetylcholinesterase-inhibiting methanol extracts from *Umbilicaria esculenta*. *Mycobiology.* 2009;37(3):203-6.
- 120 Lenth RV. Response-Surface Methods in R, Using rsm. *J Stat Softw.* 2009;32(7).

- 121 Chammem M, Sifaoui I, Mejri A, Slama MB, Hamdi M, Abderabba M. Optimization of extraction of phenolic and antioxidant contents from olive leaves using composite central design. *GJBB*. 2015;4(2):145-52.
- 122 Andjelković MZ, Milenković-Andjelković AS, Radovanović BC, Radovanović AN. Optimization of ultrasound-assisted extraction of phenols from seeds of grape pomace. *Acta Chim Slov*. 2014;61(4):858-65.
- 123 Mehta M, Adem A, Sabbagh M. New acetylcholinesterase inhibitors for Alzheimer's disease. *Int J Alzheimers Dis*. 2012.
- 124 Ghasemzadeh A, Jaafar HZ. Profiling of phenolic compounds and their antioxidant and anticancer activities in pandan (*Pandanus amaryllifolius* Roxb.) extracts from different locations of Malaysia. *BMC Complement Altern Med*. 2013;13:341.
- 125 Stamatopoulos K, Chatzilazarou A, Katsoyannos E. Optimization of multistage extraction of olive leaves for recovery of phenolic compounds at moderated temperatures and short extraction times. *Foods*. 2014;3(1):66-81.
- 126 Brewer LR, Kubola J, Siriamornpun S, Herald TJ, Shi YC. Wheat bran particle size influence on phytochemical extractability and antioxidant properties. *Food Chem*. 2014;152:483-90.
- 127 Ghasemzadeh A, Jaafar HZ, Rahmat A, Devarajan T. Evaluation of bioactive compounds, pharmaceutical quality, and anticancer activity of curry leaf (*Murraya koenigii* L.). *Evid Based Complement Alternat Med*. 2014.
- 128 Jung HA, Karki S, Kim JH, Choi JS. BACE1 and cholinesterase inhibitory activities of *Nelumbo nucifera* embryos. *Arch Pharm Res*. 2015;38(6):1178-87.
- 129 Yang XQ. The components and properties of tea polyphenols; The biological activities of tea polyphenols. In: Yang XQ, Wang YF, Chen LJ, editors. *Tea polyphenol chemistry*. Shanghai: Shanghai Science and Technology Press; 2003. p.1-194.
- 130 Danrong Z, Yuqiong Z, Dejiang N. Effect of water quality on the nutritional components and antioxidant activity of green tea extracts. *Food Chem*. 2009;113(1):110-4.

- 131 Miean KH, Mohamed S. Flavonoid (myricetin, quercetin, kaempferol, luteolin and apigenin) content of edible tropical plants. *J Agric Food Chem.* 2001;49(6):3106-12.
- 132 Katalinic M, Rusak G, Barovic JD, Sinko G, Jelic D, Antolovic R, et al. Structural aspects of flavonoids as inhibitors of human butyrylcholinesterase. *Eur J Med Chem.* 2010;45(1):186-92.
- 133 Luke RH. Antioxidant Vitamin and Phytochemical Content of Fresh and Processed Pepper Fruit (*Capsicum annuum*). *Handbook of Nutraceuticals and Functional Foods: CRC Press; 2000.*
- 134 Ooi LS, Wong EY, Sun SS, Ooi VE. Purification and characterization of non-specific lipid transfer protein from the leaves of *Pandanus amaryllifolius* (Pandanaceae). *Peptides.* 2006;27(4):626-32.
- 135 Zainuddin H. Flavonoids and volatile compounds in 29 types of tropical plants from different anatomical parts using gas chromatography-mass spectrometry. Faculty of Food Science and Technology, University Putra Malaysia. 2004:32-57.
- 136 Busqué F, March PD, Figueredo M, Font J, Sanfeliu E. Total synthesis of four *Pandanus* alkaloids: pandamarilactonine-A and -B and their chemical precursors norpandamarilactonine-A and -B. *Tetrahedron Lett.* 2002;43(32):5583-5.
- 137 Edge J. A pilot study addressing the effect of aromatherapy massage on mood, anxiety and relaxation in adult mental health. *Complement Ther Nurs Midwifery.* 2003;9:90-7.
- 138 Chanjirakul K, Wang SY, Wang CY, Siriphanich J. Effect of natural volatile compounds on antioxidant capacity and antioxidant enzymes in raspberries. *Postharvest Biol Technol.* 2006;40(2):106-15.
- 139 Lee JH, Cho HS, Kim Y, Kim JA, Banskota S, Cho MH, et al. Indole and 7-benzyloxyindole attenuate the virulence of *Staphylococcus aureus*. *Appl Microbiol Biotechnol.* 2013;97:4543-52.
- 140 Tao N, Jia L, Zhou H. Anti-fungal activity of *Citrus reticulata* Blanco essential oil against *Penicillium italicum* and *Penicillium digitatum*. *Food Chem.* 2014;153:265-71.

- 141 Kokubun T, Rozwadowski Z, Duddeck H. Benzaldehyde derivatives from *Sarcodontia crocea*. J Nat Prod. 2007;70(9):1539-41.
- 142 Jaganath IB, Crozier A. Dietary flavonoids and phenolic compounds. Plant Phenolics and Human Health: Biochemistry, Nutrition and Pharmacology. 2010.
- 143 Saikia LR, Upadhyaya S. Antioxidant activity, phenol and flavonoid content of some less known medicinal plants of Assam. IJPBS. 2011;2(2):383-8.
- 144 Teixeira J, Gaspar A, Garrido EM, Garrido J, Borges F. Hydroxycinnamic acid antioxidants: an electrochemical overview. Biomed Res Int. 2013.
- 145 Brighente IMC, Dias M, Verdi LG, Pizzolatti MG. Antioxidant activity and total phenolic content of some Brazilian species. Pharm Biol. 2007;45(2):156-61.
- 146 Oboh G, Agunloye OM, Akinyemi AJ, Ademiluyi AO, Adefegha SA. Comparative study on the inhibitory effect of caffeic and chlorogenic acids on key enzymes linked to Alzheimer's disease and some pro-oxidant induced oxidative stress in rats' brain-*in vitro*. Neurochem Res. 2013;38(2):413-9.
- 147 Nićiforović N, Abramović H. Sinapic acid and its derivatives: natural sources and bioactivity. Compr Rev Food Sci F. 2014;13:34-51.
- 148 Zhao Y, Dou J, Wu T, Aisa HA. Investigating the antioxidant and acetylcholinesterase inhibition activities of *Gossypium herbaceum*. Molecules. 2013;18:951-62.
- 149 Takahashi T, Miyazawa M. Serotonin derivatives as inhibitors of  $\gamma$ -secretase (BACE 1). Pharmazie. 2011;66:301-5.
- 150 Cláudio AFM, Ferreira AM, Freire CSR, Silvestre AJD, Freire MG, Coutinho JAP. Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. Sep Purif Technol. 2012;97:142-149.
- 151 Lee WK, Lee HJ. The roles of polyphenols in cancer chemoprevention. Biofactors. 2006;26(2):105-21.
- 152 Yabe T, Tuchida H, Kiyohara H, Takeda T, Yamada H. Induction of NGF synthesis in astrocytes by onjisaponins of *Polygala tenuifolia*, constituents

- of kampo (Japanese herbal) medicine, Ninjin-yoei-to. *Phytomedicine*. 2003;10(2-3):106-14.
- 153 Hong SY, Jeong WS, Jun M. Protective effects of the key compounds isolated from *Corni fructus* against  $\beta$ -amyloid-induced neurotoxicity in PC12 cells. *Molecules*. 2012;17(9):10831-45.
- 154 Youn K, Jun M. Inhibitory effects of key compounds isolated from *Corni fructus* on BACE1 activity. *Phytother Res*. 2012;26(11):1714-8.
- 155 Yoon JH, Youn K, Ho CT, Karwe MV, Jeong WS, Jun M. *p*-coumaric acid and ursolic acid from *Corni fructus* attenuated  $\beta$ -amyloid<sub>25-35</sub>-induced toxicity through regulation of the NF- $\kappa$ B signaling pathway in PC12 cells. *J Agric Food Chem*. 2014;62(21):4911-6.
- 156 Balasundram N, Sundram K, Samman S. Phenolic compounds in plants and agri-industrial by-products: Antioxidant activity, occurrence, and potential uses. *Food Chem*. 2006;99:191-203.
- 157 Bartley GE, Scolnik PA. Plant Carotenoids: pigments for photoprotection, visual attraction, and human health. *Plant Cell*. 1995;7(7):1027-38.
- 158 Astrog P, Gradelet S, Berges R, Suschetet M. Dietary lycopene decreases initiation of liver preneoplastic foci by diethylnitrosamine in rat. *Nutr Cancer*. 1997;29:60-8.
- 159 Paiva SA, Russell RM. Beta carotene and other carotenoids as antioxidants. *J Am Coll Nutr*. 1999;18:426-33.
- 160 Chisté RC, Freitas M, Mercadante AZ, Fernandes E. Carotenoids inhibit lipid peroxidation and hemoglobin oxidation, but not the depletion of glutathione induced by ROS in human erythrocytes. *Life Sci*. 2014;99(1-2):52-60.
- 161 Wang W, Shinto L, Connor WE, Quinn JF. Nutritional biomarkers in Alzheimer's disease: the association between carotenoids, n-3 fatty acids, and dementia severity. *J Alzheimers Dis*. 2008;13:31-8.
- 162 Perrig WJ, Perrig P, Stähelin HB. The relation between antioxidants and memory performance in the old and very old. *J Am Geriatr Soc*. 1997;45(6):718-24.

- 163 Ono K, Yamada M. Vitamin A and Alzheimer's disease. *Geriatr Gerontol Int*. 2012;12(2):180-8.
- 164 Ono K, Yoshiike Y, Takashima A, Hasegawa K, Naiki H, Yamada M. Vitamin A exhibits potent antiamyloidogenic and fibril-destabilizing effects *in vitro*. *Exp Neurol*. 2004;189:380-92.
- 165 Zielińska A, Nowak I. Tocopherols and tocotrienols as vitamin E. *Chemik*. 2014;68(7):585-91.
- 166 Feng Y, Wang X. Antioxidant therapies for Alzheimer's disease. *Oxid Med Cell Longev*. 2012.
- 167 Guan JZ, Guan WP, Maeda T, Makino N. Effect of vitamin E administration on the elevated oxygen stress and the telomeric and subtelomeric status in Alzheimer's disease. *Gerontology*. 2011;58(1):62-9.
- 168 Kaneai N, Arai M, Takatsu H, Fukui K, Urano S. Vitamin E inhibits oxidative stress-induced denaturation of nerve terminal proteins involved in neurotransmission. *J Alzheimers Dis*. 2012;28(1):183-9.
- 169 Khanna S, Parinandi NL, Kotha SR, Roy S, Rink C, Bibus D, et al. Nanomolar vitamin e  $\alpha$ -tocotrienol inhibits glutamate-induced activation of phospholipase A2 and causes neuroprotection. *J Neurochem*. 2010;112(5):1249-60.
- 170 Mangialasche F, Xu W, Kivipelto M, Costanzi E, Ercolani S, Pigliautile M, et al. Tocopherols and tocotrienols plasma levels are associated with cognitive impairment. *Neurobiol Aging*. 2012;33(10):2282-90.
- 171 Morris MC, Evans DA, Tangney CC, Bienias JL, Wilson RS, Aggarwal NT, et al. Relation of the tocopherol forms to incident Alzheimer disease and to cognitive change. *Am J Clin Nutr*. 2005;81(2):508-14.
- 172 Dysken MW, Sano M, Asthana S, Vertrees JE, Pallaki M, Llorente M, et al. Effect of vitamin E and memantine on functional decline in Alzheimer disease: the TEAM-AD VA cooperative randomized trial. *JAMA*. 2014;311(1):33-44.
- 173 Kang JH, Cook N, Manson J, Buring JE, Grodstein F. A randomized trial of vitamin supplementation and cognitive function in women. *Arch Intern Med*. 2006;166(22):2462-8.

- 174 Wilkinson DG. The pharmacology of donepezil: a new treatment for Alzheimer's disease. *Exp Opin Pharmacother.* 1999;1(1):121-135.
- 175 Cunha EFF, Resende JE, Franca TCC, Gonçalves MA, Souza FR, Garcia LS, et al. Molecular modeling studies of piperidine derivatives as new acetylcholinesterase inhibitors against neurodegenerative diseases. *J Chem.* 2013.
- 176 Iserloh U, Wu Y, Cumming JN, Pan J, Wang LY, Stamford AW, et al. Potent pyrrolidine- and piperidine-based BACE-1 inhibitors. *Bioorg Med Chem Lett.* 2008;18(1):414-7.
- 177 Sugimoto H, Ogura H, Arai Y, Iimura Y, Yamanishi Y. Research and development of donepezil hydrochloride, a new type of acetylcholinesterase inhibitor. *Jpn. J. Pharmacol.* 2002;89:7-20.
- 178 Ndhlala AR, Moyo M, Van Staden J. Natural antioxidants: fascinating or mythical biomolecules? *Molecules.* 2010;15(10):6905-30. Epub 2010/10/13.
- 179 Prior RL, Wu X, Schaich K. Standardized methods for the determination of antioxidant capacity and phenolics in foods and dietary supplements. *J Agric Food Chem.* 2005;53(10):4290-302. Epub 2005/05/12.
- 180 Prostack L, Barnea E, Yaish P, Zharhary D.  $\beta$  Secretase (BACE1) Activity Assay Kit: A FRET Based Assay Designed for BACE1 Inhibitor Screening [Internet]. 2014 [cited 2014 Jan 26]. Available from: <http://www.sigmaaldrich.com/life-science/cell-biology/learning-center/bace1assay-kit.html>