

- Abbasi AM, Khan MA, Ahmad M, Zafar M, Jahan S, Sultana S. (2010). Ethnopharmacological application of medicinal plants to cure skin diseases and in folk cosmetics among the tribal communities of North-West Frontier Province, *Pakistan. Journal of ethnopharmacology*; 128(2):322-35.
- Abdul-Ghani AS, El-Lati SG, Sacaan AI, Suleiman MS, Amin RM 1987. Anticonvulsant effects of some Arab medicinal plants. *Int J Crude Drug Res*; 25(1): 39-43.
- Abila B, Richens A, Davies JA 1993. Anticonvulsant effects of extracts of the West African black pepper, *Piper guineense*. *J Ethnopharmacol*; 39(2): 113-117.
- Addae JI, Pingal R, Walkins K, Cruickshank R, Youssef FF, Nayak SB. (2017). Effects of Jasminum multiflorum leaf extract on rodent models of epilepsy, motor coordination and anxiety. *Epilepsy research*; 131:58-63.
- Adebesin IF, Akindele AJ, Adeyemi OO. (2015). Evaluation of neuropharmacological effects of aqueous leaf extract of *Albizia glaberrima* (Leguminosae) in mice. *Journal of ethnopharmacology*; 160:101-8.
- Adesina SK 1982a. Studies on some plants used as anticonvulsants in Amerindian and African traditional medicine. *Fitoterapia*; 53: 147-162.
- Adesina SK, Ette EI 1982b. The isolation and identification of anticonvulsant agents from *Clausena anisata* and *Afraegele paniculata*. *Fitoterapia*; 53 (3): 63-66.
- Adesina SK, Sofowora EA 1979. The isolation of an anticonvulsant glycoside from *Tetrapleura tetraptera*. *Planta Med*; 36(3): 270-271.

References

- Adeyemi OO, Akindele AJ, Yemitan OK, Aigbe FR, Fagbo FI. (2010). Anticonvulsant, anxiolytic and sedative activities of the aqueous root extract of Securidaca longepedunculata Fresen. *Journal of ethno pharmacology*; 130(2):191-5.
- Adongo DW, Mante PK, Kukuia KK, Biney RP, Boakye-Gyasi E, Benneh CK, Ameyaw EO, Woode E. (2017). Anticonvulsant activity of Pseudospondias microcarpa (A. Rich) Engl. hydroethanolic leaf extract in mice: The role of excitatory/inhibitory neurotransmission and nitric oxide pathway. *Journal of ethnopharmacology* 12; 206:78-91.
- Aguilar-Santamaria L, Tortoriello J 1996. Anticonvulsant and sedative effects of crude extracts of Ternstroemia pringlei and Ruta chaleensis. *Phytother Res*; 10(6): 531-533.
- Ahire AE, Laddha KS, Pandit AB. (2005). Microscopical Examination of Carthamus Tinctorius Linn. *INDIAN DRUGS-BOMBAY*; 42(9):623.
- Ahmad M, Tariq M, Afaq SH, Asif M 1981. A pharmacological study on udesaleeb (Paeonia emodi Linn.): a unani anticonvulsant drug. *Bull Islamic Med*; 1: 444-447.
- Ain Q, Khan H. (2019). Pharmacological basis for sedative and hypnotic like effects of Pyrus pashia using in vivo experimental models. *International journal of geriatric psychiatry*; (Special issue).
- Aji BM, Onyeyili PA, Osunkmo UA. 2001. The central nervous effects of Mitragyna africanus (Willd) stem bark extract in rats. *J Ethnopharmacol*; 77(2-3): 143-149.
- Akah PA, Nwaiwu JI 1988. Anticonvulsant activity of root and stem extracts of Calliandra portoricensis. *J Ethnopharmacol*; 22(2): 205-210.

References

- Akah PA, Nwambie AI 1993. Nigerian plants with anticonvulsant property. *Fitoterapia*; 64(1): 42-44.
- Akah PA, Nwambie AI, Gamaniel KS, Wambebe C 1997. Experimental study of the anticonvulsant used for treatment of infantile convulsion in Nigeria. *Brain Res Bull*; 44(5): 611-613.
- Akaike N, Inomata N, Yakushiji TA. (1989). Differential effects of extra-and intracellular anions on GABA-activated currents in bullfrog sensory neurons. *Journal of neurophysiology*; 62(6):1388-99.
- Akbar S, Nisa M, Tariq M. 1985a. A study on CNS depressant activity of *Salvia haematodes* Wall. *Int J Crude Drug Res*; 22(1): 41-44.
- Aksenova RA, Zotov MI, Nekhoda MF, Cherdyncev SG. (1966). Stimulating and adaptogenic effects of a refined preparation of *Rhodiola rosea* Rhodosin. *Stimulyatory Tsentr Nerv Sist* (Ed: Saratikov As)
- Aliu A, Cilginoglu H, Aliu D. (2019). The Driving Force Effect of Standardisation and Accreditation in Medicinal and Aromatic Plants Industry. *Journal of Forestry Faculty*; 19(1): 57-71.
- Allen NJ, Karadottir R, Attwell D. (2004). Reversal or reduction of glutamate and GABA transport in CNS pathology and therapy. *Pflugers Archiv* ;449(2):132-42.
- Amabeoku GJ, Chikuni O. (1993). Cimetidine-induced seizures in mice antagonism by some GABAergic agents. *Biochemical pharmacology*; 46(12):2171-5.

- Amabeoku GJ, Green I, Kabatende J 2007. Anticonvulsant activity of *Cotyledon orbiculata* L. (Crassulaceae) leaf extract in mice. *J Ethnopharmacol*; 112(1): 101107.
- Amabeoku GJ, Green I, Kabatende J. (2007). Anticonvulsant activity of *Cotyledon orbiculata* L.(Crassulaceae) leaf extract in mice. *Journal of ethnopharmacology*; 112(1):101-7.
- Ameri A (1997). Inhibition of rat hippocampal excitability by the *Aconitum* alkaloid, 1-benzoylnapelline, but not by napelline. *Eur J Pharmacol*; 335 (2-3): 145-152.
- Ansari SH, Ali M, Qadry JS (1993). Essential oils of *Pistacia integerrima* galls and their effect on the central nervous system. *Int J Pharmacogn*; 31(2): 89-95.
- Arabadzisz D, Antal K, Parpan F, Emri Z, Fritschy JM. (2005). Epileptogenesis and chronic seizures in a mouse model of temporal lobe epilepsy are associated with distinct EEG patterns and selective neurochemical alterations in the contralateral hippocampus. *Experimental neurology*; 194(1):76-90.
- Arunlakshana C (1949). Pharmacological study of the leaves of *Cassia siamea*. *Siriraj Hosp Gaz*; 1: 434-444.
- Arya D. (2013). Major wild edible fruits used by the locals of Garhwal Himalaya. *International Journal of Advanced Life Sciences*; 6(3):145-9.
- Arya KR. (2002). Traditional uses of some common plants in indigenous folklore of Dronagiri: a mythic hill of Uttaranchal. *Indian Journal of Traditional Knowledge*; 1(1):81-86.
- Asuzu IU, Ugwueze EE 1990. Screening of *Icacina trichantha* extracts for pharmacological activity. *J Ethnopharmacol*; 28(2): 151-156.

- Ataee R, Falahati A, Ebrahimzadeh MA, Shokrzadeh M. (2016). Anticonvulsant activities of Sambucus nigra. *European review for medical and pharmacological sciences*; 20:3123-6.
- Athanassova S, Shopova S, Roussinov K 1965. Pharmacological studies of Bulgarian plants with a view to their anticonvulsive effect. *Acad Bulg Sci*; 18: 691-694.
- Athanassova S, Shopova S, Roussinov K, Markova M 1969. Pharmacological studies of Bulgarian plants with a view to their anticonvulsive effect. *Izv Inst Fiziol Bulg Akad Nauk*; 12: 205-216.
- Avallone R, Zanoli P, Puia G, Kleinschnitz M, Schreier P, Baraldi M. (2000). Pharmacological profile of apigenin, a flavonoid isolated from Matricaria chamomilla. *Biochemical pharmacology*; 59(11):1387-94.
- Awe SO, Olajide OA, Adeboye JO, Makinde JM 1997. Pharmacological evaluation of Khaya grandifoliola methanolic extract. *J Pharm Res Dev*; 2: 20-23.
- Bac P, Pages N, Dhalluin S, Tapiero H 1998. Protective effect of Crassostrea gigas extract on audiogenic seizures in magnesium deficient mice. *Biomed Pharmacother* ;52(4): 162-165.
- Baccou JC, Lambert F, Sauvaire Y. (1977). Spectrophotometric method for the determination of total steroid sapogenin. *Analyst*; 102(1215):458-65.
- Baek NI, Han JT, Ahn EM, Park JK, Cho SW, Jeon SG, Jang JS, Kim CK, Choi SY. (2000). Isolation of anticonvulsant compounds from the fruits of Schizandra chinensis Baili. *Han'guk Nonghwa Hakhoe Chi*; 43(1): 72-77.
- Baird-Lambert J, Dunlop RW, Jamieson DD. (1980). Anticonvulsant activity of a novel diterpene isolated from a soft coral of The genus lobophytum. *ArzneimForsch*; 30(6): 964-967.

References

- Barker JL, Rogawski MA. (1993). Calcium current block by (-)-pentobarbital, phenobarbital, and CHEB but not (+)-pentobarbital in acutely isolated hippocampal CA1 neurons: comparison with effects on GABA-activated Cl-current. *Journal of Neuroscience*; 13(8):3211-21.
- Barros Viana GS, Vale TGD, Silva CMM, Abreu Matos FJ 2000. Anticonvulsant activity of essential oils and active principles from chemotypes of Lippia alba (Mill.). *Biol Pharm Bull* 23;(11): 1314-1317.
- Beers RF, Sizer IW. (1952). A spectrophotometric method for measuring the breakdown of hydrogen peroxide by catalase. *J Biol chem*; 195(1):133-40.
- Beinvenu E, Amabeoku GJ, Eagles PK, Scott G, Springfield EP (2002). Anticonvulsant activity of aqueous extract of Leonotis leonurus. *Phytomedicine*; 9(3): 217-223.
- Bernardi MM, Souza-Spinosa H, Batatinha MJM, Giorgi R (1991). Croton zehntneri: possible central nervous system effects in rodents. *J Ethnopharmacol*; 33(3): 285-287.
- Bhakuni DS, Dhar ML, Dhar MM, Dhawan BN, Gupta B, Srimali RC (1971). Screening of indian plants for biological activity. Part III. *Indian J Exp Biol* ;9: 91.
- Bhakuni DS, Goel AK, Jain S, Mehrotra BN, Patnaik GK, Prakash V 1988. Screening of indian plants for biological activity. Indian J Exp Biol 26: 883-904.
- Bhakuni DS, Satish S, Shukla YN, Tandon JS. (1971). Chemical constituents of *Diospyros buxifolia*, *D. tomentosa*, *D. ferruginea*, *D. lotus*, *Rhus parviflora*, *Polygonum recumbens*, *Balanites aegyptiaca* and *Pyrus pashia*. *Phytochemistry*; 10(11):2829-31.

- Bhakuni OS, Dhar ML, Dhar MM, Dhawan BN, Mehrotra BN (1969). Screening of Indian plants for biological activity. Part II. *Indian J Exp Biol*; 7: 250-262.
- Bhattacharya SK, Debnath PK, Pandey VB, Sanyal AK (1975). Pharmacological investigations on *Elaeocarpus ganitrus*. *Planta Med*; 28(06): 174-177.
- Bienvenu E, Amabeoku GJ, Eagles PK, Scott G, Springfield EP. (2002). Anticonvulsant activity of aqueous extract of *Leonotis leonurus*. *Phytomedicine*; 9(3):217-23.
- Binder DK, Croll SD, Gall CM, Scharfman HE. (2001). BDNF and epilepsy: too much of a good thing? *Trends in neurosciences*; 24(1):47-53.
- Bonni A, Ginty DD, Dudek H, Greenberg ME. (1995). Serine 133-phosphorylated CREB induces transcription via a cooperative mechanism that may confer specificity to neurotrophin signals. *Molecular and Cellular Neuroscience*; 6(2):168-83.
- Borges Filho C, Jesse CR, Donato F, Del Fabbro L, de Gomes MG, Goes AT, Souza LC, Giacomeli R, Antunes M, Luchese C, Roman SS. (2016). Neurochemical factors associated with the antidepressant-like effect of flavonoid chrysin in chronically stressed mice. *European journal of pharmacology*; 791:284-96.
- Bradford HF, Ward HK. (1976). On glutaminase activity in mammalian synaptosomes. *Brain research*; 110(1):115-25.
- Brogden RN, Goa KL. (1991). *Flumazenil*. *Drugs*; 42(6):1061-89.
- Browne TR, Holmes GL. (2001). Epilepsy. *N Engl J Med*; 344(15):1145–1151.

References

- Buznego MT, Perez-Saad H (1999). Efecto antiepileptico de Plectranthus amboinicus (Lour.) Spreng. (oregano frances). *Rev Neurol*; 28: 388-392.
- Carlini EA, Contar JDP, Silva-Filho AR, Silveira NGD, Frochtengarten ML, Bueno OFA. (1986). Pharmacology of lemongrass (*Cymbopogon citratus* Starpf). I. Effects of teas prepared from the leaves on laboratory animals. *J Ethnopharmacol* 17(1): 37-64.
- Carlini EA, Oliveira AB, Oliveira GG. (1983). Psychopharmacological effects of the essential oil fraction and of the hydrolate obtained from the seeds of *Licaria puchury-major*. *J Ethnopharmacol* 8(2): 224-236.
- Carter RB, Wilent W, Huber M, Xu Z, Vanover KE, Woodward RM. (2000). Anti-allodynic and anti-hyperalgesic effects of the NR2B subunit-selective NMDA antagonist CI-1041 in rat models of inflammation and neuropathy. *In Soc. Neurosci; Abstr* (Vol. 26, No. 617.3).
- Castel-Branco MM, Alves GL, Figueiredo IV, Falcão A, Caramona MM. (2009). The maximal electroshock seizure (MES) model in the preclinical assessment of potential new antiepileptic drugs. *Methods Find Exp Clin Pharmacol*; 31(1):101-106.
- Chadwick D. (1995). Do anticonvulsants alter the natural course of epilepsy? Case for early treatment is not established. *BMJ: British Medical Journal*; 310(6973):177.
- Challice JS, Westwood MN. (1972). Phenolic compounds of the genus *Pyrus*. *Phytochemistry*; 11(1):37-44.
- Chang SJ, Yu BC. (2010). Mitochondrial matters of the brain: mitochondrial dysfunction and oxidative status in epilepsy. *Journal of bioenergetics and biomembranes*; 42(6):457-9.

References

- Chase CR, Pratt R. (1949). Fluorescence of powdered vegetable drugs with particular reference to development of a system of identification. *Journal of the American Pharmaceutical Association*; 38(6):324-31.
- Chatterjee C (1964). Pharmacological screening of Valeriana wallichii DC, Lallertmentia royleana Benth, Breynia rhamnoides Muell-Arg and Evolvulus numularians for sedative and anticonvulsive principles. *Naturwissenschaften*; 51(17): 411.
- Chauhan AK, Dobhal MP, Joshi B (1988). A review of medicinal plants showing anticonvulsant activity. *J Ethnopharmacol*; 22 (1): 11-23.
- Chen HY (1977). Studies on tien-ma and huan-jun, the pharmacological effects of tien-ma decoction, and mi-huan-jun fermentation product on the central nervous system. *Chung-Hua I Hsueh Tsa Chih (Beijing)*; 57: 470-472.
- Chermat R, Lachapelle F, Baumann N, Simon P (1979). Anticonvulsant effect of yohimbine in quaking mice: antagonism by clonidine and prazosine. *Life Sci*; 25(17): 1471-1476.
- Chindo BA, Schroder H, Becker A. (2015). Methanol extract of Ficus platyphylla ameliorates seizure severity, cognitive deficit and neuronal cell loss in pentylenetetrazole-kindled mice. *Phytomedicin*; 22(1):86-93.
- Chiou LC, Ling JY, Chang CC (1997). Chinese herb constituent beta-eudesmol alleviated the electroshock seizures in mice and electrographic seizures in rat hippocampal slices. *Neurosci Lett*; 231(3): 171-174.

References

- Cho KO, Lybrand ZR, Ito N, Brulet R, Tafacory F, Zhang L, Good L, Ure K, Kernie SG, Birnbaum SG, Scharfman HE. (2015). Aberrant hippocampal neurogenesis contributes to epilepsy and associated cognitive decline. *Nature communications*; 6:6606.
- Cho MH, Paik YS, Hahn TR. (2000). Enzymatic conversion of precarthamin to carthamin by a purified enzyme from the yellow petals of safflower. *Journal of agricultural and food chemistry*; 48(9):3917-21.
- Chuan-shui LI, Zhi-gang TA, Yang LI, Ying-cong MA, Le CA, Zhong-tao DI. (2011). Chemical Constituents of the Flowers of Pyrus pashia Buch. -Ham. ex D. Don [J]. *Lishizhen Medicine and Materia Medica Research*; 10.
- Contreras CM, Chacon L, Enriquez RG. (1996). Anticonvulsant properties of Ipomoea stans. *Phytomedicine* ;3(1): 4144.
- Costa E, Guidotti A. (1979). Molecular mechanisms in the receptor action of benzodiazepines. *Annual Review of Pharmacology and Toxicology*; 19(1):531-45.
- Crestani F, Assandri R, Täuber M, Martin JR, Rudolph U. (2002). Contribution of the $\alpha 1$ -GABAA receptor subtype to the pharmacological actions of benzodiazepine site inverse agonists. *Neuropharmacology*; 43(4):679-84.
- Curtis DR, Duggan AW, Johnston GA. (1971). The specificity of strychnine as a glycine antagonist in the mammalian spinal cord. *Experimental Brain Research*; 12(5):547-65.

References

- Czarnecki R, Librowski T, Zebala K, Kohlmunzer S (1993). Pharmacological properties of a lyophilizate from Galeopsis ladanum on the central nervous system of rodents. *Phytother Res* 7(1): 9-12.
- Daanaa S, Abotsi WK, Boakye-Gyasi E, Woode E. (2018). Anticonvulsant effect of the hydroethanolic leaf extract of Psydrax subcordata (DC.) Bridson in murine models. *Journal of ethnopharmacology*; 213:384-94.
- Dantas FG (2005). Epilepsy and Marijuana - A Review. *J Epilepsy Clin Neurophysiol* ;11(2): 91-93.
- Das PK, Nath V, Gode KD, Sanyal AK 1964. Preliminary phytochemical and pharmacological studies on Coccus hirsutus Linn. *Indian J Med Res*; 52: 300307.
- Dasgupta A, Agarwal SS, Basu DK 1984. Anticonvulsant activity of the mixed fatty acids of Elaeocarpus ganitrus roxb. (Rudraksh). *Indian J Physiol Pharmacol*; 28(3): 245-246.
- Davis KM, Wu JY. (2001). Role of glutamatergic and GABAergic systems in alcoholism. *Journal of Biomedical Science*; 8(1):7-19.
- De Biase D, Barra D, Bossa F, Pucci P, John RA. (1991). Chemistry of the inactivation of 4-aminobutyrate aminotransferase by the antiepileptic drug vigabatrin. *Journal of Biological Chemistry*; 266(30):20056-61.
- De Boer HM, Mula M, Sander JW. (2008). The global burden and stigma of epilepsy. *Epilepsy & behavior*; 12(4):540-6.

References

- De Lima TCM, Klueger PA, Pereira PA, Macedo-Neto WP, Morato GS, Farias MR. (1998). Behavioural effects of crude and semi-purified extracts of *Syzygium cuminii* Linn. skeels. *Phytother Res* 12(7): 488-493.
- De Lucia R, Sertie JAA, Camargo EA, Panizza S. (1997). Pharmacological and toxicological studies on *Centella asiatica* extract. *Fitoterapia*; 68(5): 413-416.
- Debelmas AM, Hache J (1976). Toxicity of several medicinal plants of Nepal including some behavioral and central nervous system effects. *Plant Med Phytother*; 10: 128-138.
- Deckers CL, Genton P, Sills GJ, Schmidt D. (2003). Current limitations of antiepileptic drug therapy: a conference review. *Epilepsy research*; 53(1-2):1-7.
- Declume C, Assamoi A, Akre TB (1984). Anticonvulsant activity of *Cnestis ferruginea* DC., Connaraceae. *Ann Pharm*; Fr 42(1): 35-41.
- DeLorenzo RJ, Sun DA, Deshpande LS. (2005). Erratum to “Cellular mechanisms underlying acquired epilepsy: the calcium hypothesis of the induction and maintenance of epilepsy”. *Pharmacology & therapeutics*; 111(1):288-325.
- DeLorey TM, Olsen RW. (1999). GABA and epileptogenesis: comparing gabrb3 gene-deficient mice with Angelman syndrome in man. *Epilepsy research*; 36(2-3):123-32.
- Dey PK, Chatterjee BK. (1968). Studies on the neuropharmacological properties of several Indian medicinal plants. *J Res Indian Med*; 3(1): 9-18.
- Dhar ML, Dhar MM, Dhawan BN, Mehrotra BN, Ray C (1968). Screening of Indian plants for biological activity: Part I. *Indian J Exp Biol*; 6: 232-247.

References

- Dhar ML, Dhar MN, Dhawan BN, Mehrotra BN, Srimal RC, Tandon JS (1973). Screening of Indian plants for biological activity. Part IV. *Indian J Exp Biol*; 11: 4354
- Dhawan BN, Patnaik GK, Rastogi RP, Singh KK, Tandon JS (1977). Screening of Indian plants for biological activity. VI. *Indian J Exp Biol*; 15: 208-219.
- Dhir A. (2012) Pentylenetetrazol (PTZ) kindling model of epilepsy. *Current Protocols in Neuroscience*; 58(1):9-37.
- Diaz P, Jeong SC, Lee S, Khoo C, Kooyalamudi SR. (2012). Antioxidant and anti-inflammatory activities of selected medicinal plants and fungi containing phenolic and flavonoid compounds. *Chinese Medicine*; 7(1):26.
- Dikshit S, Tewari PV, Dixit SP (1972). Anticonvulsant activity of Canscora decussata Roem. & Sch. *Indian J Physiol Pharmacol*; 16(1): 81-83.
- Diniz PH, Pistonesi MF, Araujo MC. (2015). Using I SPA- PLS and NIR spectroscopy for the determination of total polyphenols and moisture in commercial tea samples. *Analytical methods*; 7(8): 3379-84
- Duarte FS, Duzzioni M, Mendes BG, Pizzolatti MG, De Lima TCM. (2007). Participation of dihydrostyryl-2pyrones and styryl-2-pyrones in the central effects of Polygala sabulosa (Polygalaceae), a folk medicine topical anesthetic. *Pharmacol Biochem Behav*; 86(1): 150-161.
- Duncan JS. (2002). Neuroimaging methods to evaluate the etiology and consequences of epilepsy. *Epilepsy research*; 50(1-2):131-40.
- Dwivedi C, Harbison RD. (1975). Anticonvulsant activities of delta-8- and delta-9-tetrahydrocannabinol and uridine. *Toxicol Appl Pharmacol*; 31: 452.
- Elger CE, Schmidt D. (2008). Modern management of epilepsy: a practical approach. *Epilepsy & Behavior*; 12(4):501-39.

- Errington AC, Stohr T, Lees G. (2005). Voltage gated ion channels: targets for anticonvulsant drugs. *Current topics in medicinal chemistry*; 5(1):15-30.
- Fabricius M, Fuhr S, Willumsen L, Dreier JP, Bhatia R, Boutelle MG, Hartings JA, Bullock R, Strong AJ, Lauritzen M. (2008). Association of seizures with cortical spreading depression and peri-infarct depolarisations in the acutely injured human brain. *Clinical Neurophysiology*; 119(9):1973-84.
- Fehri B, Aiache JM, Boukef K, Memmi A, Hizaoui B. (1991). Valeriana officinalis and Crataegus oxyacantha: reiterated administrations and pharmacological properties. *J Pharm Belg* 46(3): 165-176.
- Fisher RS, Boas WV, Blume W, Elger C, Genton P, Lee P, Engel Jr J. (2005). Epileptic seizures and epilepsy: definitions proposed by the International League Against Epilepsy (ILAE) and the International Bureau for Epilepsy (IBE). *Epilepsia* ; 46(4):470-2.
- Fridovich I. (1998). Oxygen toxicity: a radical explanation. *Journal of Experimental Biology*; 201(8):1203-9.
- Fukuda T, Shibata H. (1994). Persimmon calyx extracts as anticonvulsants and to alleviate the side effects of barbituric acid compounds. Patent-Japan Kokai Tokkyo Koho 06: 649.
- Gairola S, Sharma CM, Ghildiyal SK, Suyal S. (2011). Tree species composition and diversity along an altitudinal gradient in moist tropical montane valley slopes of the Garhwal Himalaya, India. *Forest Science and Technology*; 7(3):91-102.

References

- Galarreta M, Hestrin S. (1998) Frequency-dependent synaptic depression and the balance of excitation and inhibition in the neocortex. *Nature neuroscience*; 1(7):587.
- Gawande DY, Druzhilovsky D, Gupta RC, Poroikov V, Goel RK. (2017). Anticonvulsant activity and acute neurotoxic profile of Achyranthes aspera Linn. *Journal of ethnopharmacology*; 202:97-102.
- Geiger LR, Harner RN. (1978). EEG patterns at the time of focal seizure onset. *Archives of neurology* 1; 35(5):276-86.
- Gilani AH, Aziz N, Khan MA, Shaheen F, Jabeen Q, Siddiqui BS, Herzig JW (2000). Ethnopharmacological evaluation of the anticonvulsant, sedative and antispasmodic activities of Lavandula stoechas L. *J Ethnopharmacol* 71(1-2): 161-167.
- Gilani AH. (2005). Trends in ethnopharmacology. *Journal of ethnopharmacology*; 100(1-2):43-9.
- Gilliam FG, Mendiratta A, Pack AM, Bazil CW. (2005). Epilepsy and common comorbidities: improving the outpatient epilepsy encounter. *Epileptic disorders*; 7(1):27-33.
- Goldenberg MM. (2010). Overview of drugs used for epilepsy and seizures: etiology, diagnosis, and treatment. *Pharmacy and Therapeutics*; 35(7):392.
- Gomez MR, Cerutti S, Sombra LL, Silva MF, Martínez LD. (2007). Determination of heavy metals for the quality control in argentinian herbal medicines by ETAAS and ICP-OES. *Food and Chemical Toxicology*; 45(6):1060-4.

- González-Trujano ME, Domínguez F, Perez-Ortega G, Aguillón M, Martinez-Vargas D, Almazán-Alvarado S, Martínez A. (2017). *Justicia spicigera* Schltdl. and kaempferitrin as potential anticonvulsant natural products. *Biomedicine & Pharmacotherapy*; 92:240-8.
- Gonzalez-Trujano ME, Navarrete A, Reyes B, Hong, E. (1998). Some pharmacological effects of the ethanol extract of leaves of *Annona diversifolia* on the central nervous system in mice. *Phytother Res*; 12 (8): 600-602.
- Gorday M, DeLorey TM, Olsen RW. (2000). Differential sensitivity of recombinant GABA_A receptors expressed in *Xenopus* oocytes to modulation by topiramate. *Epilepsia*; 41:25-9.
- Gorsi MS, Miraj S. (2010). Ethnomedicinal survey of plants of Khanabad village and its allied areas, district Gilgit. *Asian J Plant Sci*; 1(5):604-15.
- Goyal M, Nagori BP, Sasmal D. (2009). Sedative and anticonvulsant effects of an alcoholic extract of *Capparis decidua*. *Journal of natural medicines*; 63(4):375-9.
- Guo Q, Kuang P. (1993). Effect of Qingyangshen on hippocampal alpha and beta tubulin gene expression during kainic acid induced epileptogenesis. *J Trad Chinese Med* ;13(4): 281-286.
- Gupta M, Mazumder UK, Das S. (1998). Effect of leaf extract from *Clerodendron colebrookianum* on CNS function in mice. *Indian J Exp Biol* ;36(2): 171-174.
- Harbone JB. (1984). *Phytochemical Methods*. 3rd ed., London: Chapman and Hall publishers.
- Harden CL. (2002). The co-morbidity of depression and epilepsy: epidemiology, etiology, and treatment. *Neurology*; 59(6 suppl 4): S48-55.

- Haruna AK. (2000). Depressant and anticonvulsant properties of the root decoction of Afrormosia laxiflora (Leguminosae). *Phytother Res*; 14 (1): 57-59.
- He J, Yin T, Chen Y, Cai L, Tai Z, Li Z, Liu C, Wang Y, Ding Z. (2015). Phenolic compounds and antioxidant activities of edible flowers of Pyrus pashia. *Journal of Functional Foods*; 17:371-9.
- He XL, Wang YH, Bi MG, Du GH. (2012). Chrysin improves cognitive deficits and brain damage induced by chronic cerebral hypoperfusion in rats. *European journal of pharmacology* ;680(1-3):41-8.
- Heaney DC, MacDonald BK, Everitt A, Stevenson S, Leonardi GS, Wilkinson P, Sander JW. (2002). Socioeconomic variation in incidence of epilepsy: prospective community-based study in south east England. *Bmj*; 325(7371):1013-6.
- Hemalatha S, Sharma P, Prasad SK. (2016). Quality Control standardization of Wild Himalayan Pear: Pyrus pashia. *Pharmacognosy Journal*; 8(4): 352-360.
- Hien TTM, Navarro-Delmasure C, Vy T (1991). Toxicity and effects on the central nervous system of a Cerbera odollam leaf extract. *J Ethnopharmacol*; 34(2-3): 201-206.
- Hill MW, Reddy PA, Covey DF, Rothman SM. (1998). Contribution of subsaturating GABA concentrations to IPSCs in cultured hippocampal neurons. *Journal of Neuroscience*; 18(14):5103-11.

References

- Ho YH, Lin YT, Wu CW, Chao YM, Chang AY, Chan JY. (2015). Peripheral inflammation increases seizure susceptibility via the induction of neuroinflammation and oxidative stress in the hippocampus. *Journal of biomedical science*; 22(1):46.
- Holland KD, McKeon AC, Canney DJ, Covey DF, Ferrendelli JA. (1992). Relative anticonvulsant effects of GABA mimetic and GABA modulatory agents. *Epilepsia*; 33(6):981-6.
- Hong M, Song KD, Lee HK, Yi S, Lee YS, Heo TH, Jun HS, Kim SJ. (2016). Fibrates inhibit the apoptosis of Batten disease lymphoblast cells via autophagy recovery and regulation of mitochondrial membrane potential. *In Vitro Cellular & Developmental Biology-Animal*; 52(3):349-55.
- Hong ND (1976). Pharmacological studies of Scolopendra subspinipes mutiland koch. *Korean J Pharmacogn*; 7: 99-109.
- Hong ND, Kim CW, Shin HD. (1979). A study on the analgesic and anti-convulsional effect of Paeoniae radix. *Korean J Pharmacogn*; 10: 119-124.
- Hong ND, Koo BH, Joo SM, Lee SK. (1988). Studies on the efficacy of combined preparation of crude drugs (XXXVI). Effects of Sipmidojuksan on the central nervous and cardiovascular systems. *Korean J Pharmacogn* 19: 141.
- Houghton PJ. (1995). The role of plants in traditional medicine and current therapy. *The Journal of Alternative and Complementary Medicine*; 1(2):131-43.

References

- Hsieh CL, Tang NY, Chiang SY, Hsieh CT, Lin JG. (1999). Anticonvulsive and free radical scavenging actions of two herbs, Uncaria rhynchophylla (Miq.) Jac and Gastrodia elata Bl., in kainic acid-treated rats. *Life Sci* 65(20): 2071-2082.
- Hsieh MT, Peng WH, Yeh FT, Tsai HY, Chang YS. (1991). Studies on the anticonvulsive, sedative and hypothermic effects of Periostracum cicadae extracts. *J Ethnopharmacol* 35(1): 83-90.
- Hu RQ, Davies JA. (1997). Effects of Piper nigrum L. on epileptiform activities in cortical wedges prepared from DBA/2 mice. *Phytother Res*; 11(3): 222-225.
- Hung ND, Chang IK, Jung HC, Kim NJ. (1983). Studies on the efficacy of combined preparation of crude drugs (XII). *Korean J Pharmacogn*; 14: 9-16.
- Hyou SY, Que PY, Gao GQ, Zhang YX. (2001). The effect of Vernonia gratiosa hance on the locomotor and convulsion activity in mice. *J Chin Pharm Sci*; 2(1): 11-18.
- Isokawa MA. (1996). Decrement of GABA_A receptor-mediated inhibitory postsynaptic currents in dentate granule cells in epileptic hippocampus. *Journal of neurophysiology*; 75(5):1901-8.
- Ivetic V, Trivic S, Pogancev MK, Popovic M, Zlinska J. (2011). Effects of St John's wort (*Hypericum perforatum* L.) extracts on epileptogenesis. *Molecules*; 16(9):8062-75.
- Janbaz KH, Ahsan MZ, Saqib F, Imran I, Zia-Ul-Haq M, Rashid MA, Jaafar HZ, Moga M. (2015). Scientific basis for use of Pyrus pashia Buch. -Ham. ex D. Don. fruit in gastrointestinal, respiratory and cardiovascular ailments. *PloS one*; 10(3): e0118605.
- Johansen DA. (1940). Plant Micro technique, 1st Edn MC Graw Hill Co. Inc New York & London.

- Joshi R, Rana A, Gulati A. (2015). Studies on quality of orthodox teas made from anthocyanin-rich tea clones growing in Kangra valley, India. *Food chemistry*; 176:357-66.
- Junhua H, Dechao Y, Xianyu C, Zemin H, Xiaozhang F, Araki H, Tsuchida K, Asami Y, Aihara H, Watanabe N, Obuchi T, Omura S. (1990). Effects of mi huan jun (*Armillaria mellea*) on central nervous and vascular system. *Fitoterapia*; 61(3): 207-214.
- Kakkar P, Das B, Viswanathan PN. (1984). A Modified spectrophotometric assay of superoxide dismutase (SOD). *Indian journal of Biochemistry and Biophysics*; 21:30.
- Kandhare AD, Shivakumar V, Rajmane A, Ghosh P, Bodhankar SL. (2014). Evaluation of the neuroprotective effect of chrysin via modulation of endogenous biomarkers in a rat model of spinal cord injury. *Journal of natural medicines*; 68(3):586-603.
- Kasahara Y, Hikino H (1987). Central actions of Ganoderma lucidum. *Phytother Res*; 1(1): 17-21.
- Kasahara Y, Kumaki K, Sato T, Katagiri S. (1989). Pharmacological studies on flower petals of Carthamus tinctorius central actions and antiinflammation. *Shoyakugaku Zasshi*;43: 331-338.
- Kasture VS, Chopde CT, Deshmukh VK. (2000). Anticonvulsive activity of Albizzia lebbeck, Hibiscus rosa sinesis and Butea monosperma in experimental animals. *J Ethnopharmacol*; 71(1-2): 65-75.
- Kasture VS, Chopde CT, Deshmukh VK. (2002). Anxiolytic and anticonvulsive activity of Sesbania grandiflora leaves in experimental animals. *Phytother Res*; 16(5): 455-460.
- Kasture VS, Kasture SB, Pal SC. (1996). Anticonvulsant activity of Albizzia lebbeck. *Indian J Exp Biol*; 34 (1): 78-80.

- Ketusingha A, Arunluk U. (1950). Studies of ocimum seeds for food and drug purposes. *Shriraj Hospital Gazette* 2: 593-604.
- Khandelwal KR. (2007). *Practical pharmacognosy techniques and experiments*. 17th ed. Pune: Nirali Prakashan.149-56.
- Khandelwal RU, Paliwal SA, Chauhan RA, Siddiqui AA. (2008). Phytochemical screening of hexane soluble fraction of Pyrus pashia fruits. *Oriental Journal of Chemistry*; 24(2):773-4.
- Kinghorn AD, Pan L, Fletcher JN, Chai H. (2011). The relevance of higher plants in lead compound discovery programs. *Journal of natural products*; 74(6):1539-55.
- Klohs MW, Keller F, Williams RE, Toekes MI, Cronheim GE. (1959). A chemical and pharmacological investigation of Piper methysticum Forst. *J Med Pharm Chem*; 1(1): 103.
- Kosalec I, Bakmaz M, Pepelnjak S, Vladimir-Knezevic SA.(2004) .Quantitative analysis of the flavonoids in raw propolis from northern Croatia. *Acta Pharmaceutica*; 54(1):65-72.
- Kosger HH, Ozturk M, Sokmen A, Bulut E, Ay S. (2009). Wound healing effects of Arnebia densiflora root extracts on rat palatal mucosa. *European journal of dentistry*; 3(2):96.
- Kovac S, Abramov AY, Walker MC. (2013). Energy depletion in seizures: anaplerosis as a strategy for future therapies. *Neuropharmacology*; 69:96-104.
- Kozioł E, Deniz FS, Orhan IE, Marcourt L, Budzyńska B, Wolfender JL, Crawford AD, Skalicka-Wozniak K. (2019). High-performance counter-current chromatography isolation and initial neuroactivity characterization of furanocoumarin derivatives from Peucedanum alsaticum L (Apiaceae). *Phytomedicine*; 54:259-64.

- Kuang P, Lang SY, Liu JX, Zhang FY, Wu WP. (1991). The investigation of antiepileptic action of Qingyanshen (QYS). *J Trad Chinese Med*; 11(1): 40-46.
- Kulkarni SK, Dandiya PC. (1975). Influence of intraventricular administration of norepinephrine, dopamine and 5-hydroxytryptamine on motor activity of rats. *The Indian Journal of Medical Research*; 63(3):462-8.
- Kulshrestha VK, Singh N, Saxena RC, Kohli RP. (1970). Central pharmacological activity of an alkaloid fraction of Apium graveolens. *Indian J Med Res*; 58(1): 99-102.
- Kumar M, Sheikh MA, Bussmann RW. (2011). Ethnomedicinal and ecological status of plants in Garhwal Himalaya, India. *Journal of ethnobiology and ethnomedicine*; 7(1):32.
- Kupferberg H. (2001). Animal models used in the screening of antiepileptic drugs. *Epilepsia*; 42:7-12.
- Kurukawa K, Chairungsrielerd N, Ohta T, Nozoe S, Ohizumi Y. (1997). Novel types of receptor antagonists from the medicinal plant Garcinia mangostana. *Nippon Yakurigaku Zasshi* 110:153-158.
- Kwan P, Sills GJ, Brodie MJ. (2001). The mechanisms of action of commonly used antiepileptic drugs. *Pharmacology & therapeutics*; 90(1):21-34.
- Laguna MR, Villar RM, Cadavid I, Calleja JM. (1990). Effects of Phaeodactylum tricornutum and Dunaliella tertiolecta extracts on the central nervous system. *Planta Med*; 56:152-157.
- Laguna MR, Villar RM, Cadavid I, Calleja JM. (1993). Effects of extracts of Tetraselmis suecica and Isochrysis galbana on the central nervous system. *Planta Med*; 59(03):207-214.

References

- Lane SB, Bunch SE. (1990). Medical management of recurrent seizures in dogs and cats. *Journal of Veterinary Internal Medicine*; 4(1):26-39.
- Lanthers MC, Fleurentin J, Dorfman P, Misslin R, Mortier F. (1996). Neurophysiological effects of Ruphorbia hirta L. (Euphorbiaceae). *Phytother Res*; 10(8):670-676.
- Lashev LD, Droumey DM, Stoianova-Ivanova B. (1981). Pharmacological activity of alcohol extracts from the overground parts of Chrysanthemum indicum, parviflorous form. *C R. Acad Bulg Sci*; 34:10291032.
- Lason W, Leskiewicz M. (2013). Effect of plant polyphenols on seizures—animal studies. *Journal of Epileptology*; 21(2):79-87.
- Lason W, Leskiewicz M. (2013). Effect of plant polyphenols on seizures—animal studies. *Journal of Epileptology*; 21(2):79-87.
- Lazarov O, Hollands C. (2016). Hippocampal neurogenesis: learning to remember. *Progress in neurobiology*; 138:1-8.
- Leach MJ, Marden CM, Miller AA. (1986) Pharmacological studies on lamotrigine, a novel potential antiepileptic drug. *Epilepsia*; 27(5):490-7.
- Lee CY, Fu WM, Chen CC, Su MJ, Liou HH. (2008). Lamotrigine inhibits postsynaptic AMPA receptor and glutamate release in the dentate gyrus. *Epilepsia* ; 49(5):888-97.
- Lee IR, Kim JS, Lee SH. (1992). Pharmacological activities of leaves of Hedera rhombea Bean. *Korean J Pharmacogn*; 23(1):34-42.

- Lee KM, Jung JS, Song DK, Krauter M, Kim YH 1993. Effects of Humulus lupulus extract on the central nervous system in mice. *Planta Med*; 59(S1) 691.
- Leonard BE. (2003). Fundamentals of psychopharmacology, 3rd edn. Chichester, John Wiley and sons, 295–318.
- Leslie GB. (1978). A pharmacometric evaluation of nine biostrath herbal remedies. *Medita* 8(10):3-19.
- Li GY. (1987). Treatment of 278 cases of epilepsy with baili pill. *J New Chin Med* 19:33.
- Lia ZJ, Wan CP, Cai L, Li SQ, Zheng X, Qi Y, Dong JW, Yin TP, Zhou ZX, Tan NH, Ding ZT. (2015). Terpenoids with cytotoxic activity from the branches and leaves of Pyrus pashia. *Phytochemistry letters*; 13:246-51.
- Liao JF, Huang SY, Jan YM, Yu LL, Chen CF. (1998). Central inhibitory effects of water extract of Acori grammiae rhizoma in mice. *J Ethnopharmacol*; 61 (3):185-193.
- Lima TCM, Morato GS, Takahashi RN. (1993). Evaluation of the central properties of Artemisia verlotorum. *Planta Med*; 59(04):326-329.
- Liu CM, Gao DZ, Yu PY, Zhou XH. (1989). Anti-epileptic effect of the venom of Buthus martensi karasch and antiepilepsy peptide. *Shenyang Yaoxueyuan Xuebao* 6:95-98.
- Liu J, Liu Z, Ding H, Yang X. (2013). Adherence to treatment and influencing factors in a sample of Chinese epilepsy patients. *Epileptic disorders*; 15(3):289-94.

References

- Lodge D, Johnston GAR, Curtis DR, Brand SJ. (1997). Effects of the Areca nut constituent arecaidine and guvacine on the action of GABA in the cat central nervous system. *Brain Res* 136 (3):513-522.
- Loscher W, Honack D, Rundfeldt C. (1998). Antiepileptogenic effects of the novel anticonvulsant levetiracetam (ucb L059) in the kindling model of temporal lobe epilepsy. *Journal of Pharmacology and Experimental Therapeutics*; 284(2):474-9.
- Loscher W, Schmidt D. (1994) Strategies in antiepileptic drug development: is rational drug design superior to random screening and structural variation? *Epilepsy research*; 17(2):95-134.
- Loscher W. (2002) Animal models of epilepsy for the development of antiepileptogenic and disease-modifying drugs. A comparison of the pharmacology of kindling and post-status epilepticus models of temporal lobe epilepsy. *Epilepsy research*; 50(1-2):105-23.
- Loscher W. (2011). Critical review of current animal models of seizures and epilepsy used in the discovery and development of new antiepileptic drugs. *Seizure*; 20(5):359-68.
- Mabuchi T, Kitagawa K, Kuwabara K, Takasawa K, Ohtsuki T, Xia Z, Storm D, Yanagihara T, Hori M, Matsumoto M. (2001). Phosphorylation of cAMP response element-binding protein in hippocampal neurons as a protective response after exposure to glutamate in vitro and ischemia in vivo. *Journal of Neuroscience*; 21(23):9204-13.
- Macdonald RL, Kelly KM. (1995). Antiepileptic drug mechanisms of action. *Epilepsia*; 36: S2-12.

References

- Macdonald RL, Olsen RW. (1994). GABA_A receptor channels. *Annual review of neuroscience*. 17(1):569-602.
- Madhu A, Keerthi PH, Singh J, Shivalinge GK. (2009). To evaluate the anti-epileptic activity of aqueous root extract of Hemidesmus indicus in rats. *Arch Pharm Sci Res*; 1(1):43-7.
- Magaji MG, Yaro AH, Musa AM, Anuka JA, Abdu-Aguye I, Hussaini IM. (2012). Central depressant activity of butanol fraction of Securinega virosa root bark in mice. *Journal of ethnopharmacology*; 141(1):128-33.
- Mahe M, Driessche JV, Girre L. (1978). Pharmacological properties of several indigenous plants on the nervous system. *Plant Med Phytother*; 12: 248-258.
- Makanju OOA. (1983). Behavioral and anticonvulsant effects of an aqueous extract from the roots of Clausena anisata (Rutaceae). *Int J Crude Drug Res*; 21(1): 29-32.
- Malami S, Kyari H, Danjuma NM, Ya'u J, Hussaini IM. (2016). Anticonvulsant properties of methanol leaf extract of Laggera Aurita Linn. F. (Asteraceae) in laboratory animals. *Journal of ethnopharmacology*; 191:301-6.
- Mannan A, Khan RA, Asif M. (1989). Pharmacodynamic studies on Polypodium vulgare (Linn.). *Indian J Exp Biol* ;27(6): 556-560.
- Mante PK, Adongo DW, Woode E. (2017). Anticonvulsant effects of antiaris toxicaria aqueous extract: investigation using animal models of temporal lobe epilepsy. *BMC research notes*; 10(1):167.

References

- Marcus DA, Scharff L, Turk D, Gourley LM. (1997). A doubleblind provocative study of chocolate as a trigger of headache. *Cephalgia*;17(8): 855-862.
- Mares P, Folbergrova J, Kubova H. (2004). Excitatory aminoacids and epileptic seizures in immature brain. *Physiol Res*; 53(Suppl 1): S115-24.
- Mazumder AG, Sharma P, Patial V, Singh D. (2017). Ginkgo biloba L. attenuates spontaneous recurrent seizures and associated neurological conditions in lithium-pilocarpine rat model of temporal lobe epilepsy through inhibition of mammalian target of rapamycin pathway hyperactivation. *Journal of ethnopharmacology*; 204:8-17.
- Mazzanti G, Bettschart A, Braghierioli L, and Saso L, Panzironi C. (1993) .Persea indica: general pharmacological effects of the total extract. *Pharmacol Res*;27: 19-20.
- McDonald AJ, Mascagni F. (2001) Colocalization of calcium-binding proteins and GABA in neurons of the rat basolateral amygdala. *Neuroscience*; 105(3):681-93.
- Medel-Matus JS, Álvarez-Croda DM, Martínez-Quiroz J, Beltrán-Parrazal L, Morgado-Valle C, López-Meraz ML. (2014). IL-1 β increases necrotic neuronal cell death in the developing rat hippocampus after status epilepticus by activating type I IL-1 receptor (IL-1RI). International Journal of *Developmental Neuroscience*; 38:232-40.
- Medina-Kauwe LK, Nyhan WL, Gibson KM, Tobin AJ. (1998). Identification of a familial mutation associated with GABA-transaminase deficiency disease. *Neurobiology of disease*. 5(2):89-96.

- Mehta C, Gupta U, Srivastava VK, Satyavati GV, Prasad DN. (1979). Pharmacological studies on *Pterocarpus santalinus* Linn (red sanders). *J Res Indian Med Yoga Homeopathy*; 14: 37-43.
- Meinardi H, Scott RA, Reis R. (2001). On Behalf Of The Ilae Commission on the Developing World JS. The treatment gap in epilepsy: the current situation and ways forward. *Epilepsia*; 42(1):136-49.
- Meldrum B. (1997). First Alfred Meyer Memorial Lecture. Epileptic brain damage: a consequence and a cause of seizures. *Neuropathology and applied neurobiology*; 23(3):185-202.
- Mercer LD, Kelly BL, Horne MK, Beart PM. (2005). Dietary polyphenols protect dopamine neurons from oxidative insults and apoptosis: investigations in primary rat mesencephalic cultures. *Biochemical pharmacology*; 69(2):339-45.
- Mishra P, Agrawal RK. (1989). Some observations on the pharmacological activities of the essential oil of *Junipeerus macropoda*. *Fitoterapia*; 60: 339-345.
- Mitra SK, Chakrabori A, Bhattacharya SK. (1996). Neuropharmacological studies on Panax ginseng. *Indian J Exp Biol*; 34(1): 41-47.
- Mohler H. (2007). Molecular regulation of cognitive functions and developmental plasticity: impact of GABA_A receptors. *Journal of neurochemistry*; 102(1):1-2.
- Moldrich RX, Chapman AG, De Sarro G, Meldrum BS. (2003). Glutamate metabotropic receptors as targets for drug therapy in epilepsy. *European journal of pharmacology*; 476(1-2):3-16.
- Molgó J, Mallart A. Effects. (1985). Of *Anemonia sulcata* toxin II on presynaptic currents and evoked transmitter release at neuromuscular junctions of the mouse. *Pflügers Archiv*; (4):349-53.

References

- Monforte MT, Trovato A, Rossitto A, Forestieri AM, D'aquino A, Miceli N, Galati EM. (2002). Anticonvulsant and sedative effects of *Salvadora persica* L. stem extracts. *Phytother Res*; 16(4): 395-397.
- Mora-Perez A, Hernández-Medel MD. (2016). Anticonvulsant activity of methanolic extract from *Kalanchoe pinnata* (Lam.) stems and roots in mice: A comparison to diazepam. *Neurología (English Edition)*; 31(3):161-8.
- Moreno L, Bello R, Primo-Yufera E, Esplugues J. (2002). Pharmacological properties of the methanol extract from *Mentha suaveolens* Ehrh. *Phytother Res*; 16(S1): 10-13.
- Moto FC, Arsa'a A, Ngoupaye GT, Taiwe GS, Njapdounke JS, Kandeda AK, Nkantchoua GC, Omam JP, Pale S, Kouemou NE, Mbomo ER. (2018). Anxiolytic and Antiepileptic Properties of the Aqueous Extract of *Cissus quadrangularis* (Vitaceae) in Mice Pilocarpine Model of Epilepsy. *Frontiers in pharmacology*; 9.
- Murad W, Ahmad A, Gilani SA, Khan MA. (2011) Indigenous knowledge and folk use of medicinal plants by the tribal communities of Hazar Nao Forest, Malakand District, North Pakistan. *Journal of Medicinal Plants Research*; 5(7):1072-86.
- N'gouemo P, Baldy-Moulinier M, N'guemby-Bina C. (1996). Effects of an ethanolic extract of *Desmodium adscendens* on central nervous system in rodents. *J Ethnopharmacol*; 52(2): 77-83.
- N'gouemo P, Baldy-Moulinier M, Nguemby-Bina C. (1994b). Some pharmacological effects of an ethanolic extract of *Palisota ambigua* on the central nervous system in mice. *Phytother Res*; 8: 426-429.

References

- N'gouemo P, Koudogbo B, Tchivounda HP, Akono-Nguema C, Etoua MM. (1997). Effects of ethanol extract of *Annona muricata* on pentylenetetrazol-induced convulsive seizures in mice. *Phytother Res*; 11(3): 243-245.
- N'gouemo P, Nuguemby-Bina C, Baldy-Moulinier M. (1994a). Some neuropharmacological effects of an ethanolic extract of *Maprounea africana* in rodents. *J Ethnopharmacol*; 43: 161-166.
- Nabavi SF, Braidy N, Habtemariam S, Orhan IE, Daglia M, Manayi A, Gortzi O, Nabavi SM. (2015). Neuroprotective effects of chrysin: From chemistry to medicine. *Neurochemistry International*; 90:224-31.
- Naderali E, Nikbakht F, Ofogh SN, Rasoolijazi H. (2018). The role of rosemary extract in degeneration of hippocampal neurons induced by kainic acid in the rat: A behavioral and histochemical approach. *Journal of integrative neuroscience*; 17(1):31-43.
- Nagani KV, Kevalia J, Chanda SV. (2011). Pharmacognostical and phytochemical evaluation of stem of *Cissus quadrangularis* L. *Int J Pharm Sci Res*; 2(11):2856-62.
- Nakamura Y, Watanabe S, Miyake N, Kohno H, Osawa T. (2003). Dihydrochalcones: evaluation as novel radical scavenging antioxidants. *Journal of Agricultural and Food Chemistry*; 51(11):3309-12.
- Narita Y, Satowa H, Kokubu T, Sugaya E. (1982). Treatment of epileptic patients with the chinese herbal medicine ‘Saiko-Keishi-To’ (SK). *Ircs Libr Compend*; 10: 88-89.

- Naseer MI, Shupeng L, Kim MO. (2009). Maternal epileptic seizure induced by pentylenetetrazol: apoptotic neurodegeneration and decreased GABA B1 receptor expression in prenatal rat brain. *Molecular brain*; 2(1):20.
- Neelands TR, Zhang J, Macdonald RL. (1999). GABA_A receptors expressed in undifferentiated human teratocarcinoma NT2 cells differ from those expressed by differentiated NT2-N cells. *Journal of Neuroscience*; 19(16):7057-65.
- Neto AC, Netto JC, Pereira PS, Pereira AM, Taleb- Contini SH, França SC, Marques MO, Beleboni RO. (2009). The role of polar phytocomplexes on anticonvulsant effects of leaf extracts of *Lippia alba* (Mill.) NE Brown chemotypes. *Journal of Pharmacy and Pharmacology*; 61(7):933-9.
- Ngo Bum E, Meier CL, Urwyler S, Wang Y, Herrling PL.(1996). Extracts from rhizomes of *Cyperus articulatus* (Cyperaceae) displace [3H] CGP39653 and [3H] glycine binding from cortical membranes and selectively inhibit NMDA receptor-mediated neurotransmission. *J Ethnopharmacol*; 54(2-3): 103-111.
- Nguelefack TB, Nana P, Atsamo AD, Dimo P, Watcho P, Dongmo AD, Tapondjou LA, Njamén D, Wansi SL, Kamanyi A.(2006). Analgesic and anticonvulsant effects of extracts from the leaves of *Kalanchoe crenata* (Andrews) Haworth (Crassulaceae). *J Ethnopharmacol*; 106(1): 70-75.
- Nikol-Skaya BS, Shreter AI. (1961). Tincture of *Cimicifuga dahurica*. Med Prom SSSR 15: 47.
- Nkantchoua GC, Njapdounke JS, Fifen JJ, Taiwe GS, Ojong LJ, Kandeda AK, Bum EN. (2018). Anticonvulsant effects of *Senna spectabilis* on seizures induced by chemicals and maximal electroshock. *Journal of ethnopharmacology*; 212:18-28.

References

- Nogueira E, Vassilieff VS. (2000). Hypnotic, anticonvulsant and muscle relaxant effects of Rubus brasiliensis. involvement of GABA system. *J Ethnopharmacol*;70(3): 275-280.
- Nsour WN, Lau CBS, Wong ICK. (2000). Review on phytotherapy in epilepsy. *Seizure*; 9(2): 96-107.
- Nwaiwu JI, Akah PA. (1986). Anticonvulsant activity of the volatile oil from the fruit of Tetrapleura tataroptera. *J Ethnopharmacol*; 18(2): 103-107.
- O'Brien T, Feder N, McCully ME. (1964). Polychromatic staining of plant cell walls by toluidine blue O. *Protoplasma*; 59(2):368-73.
- Occhiuto F, Limardi F, Circosta C. (1995). Effects of the nonvolatile residue from the essential oil of Citrus bergamia on the central nervous system. *Int J Pharmacogn*; 33(3): 98-203.
- Oga S, Chanel D, Freitas P, Gomes Silva AC, Hanada S. (1984). Pharmacological trials of crude extract of Passiflora alata. *Planta Med*; 50(4): 303-306.
- Ohkawa H, Ohishi N, Yagi K. (1979). Assay for lipid peroxides in animal tissues by thiobarbituric acid reaction. *Analytical biochemistry*; 95(2):351-8.
- Ohtsuka Y, Ohno S, Oka E, Ohtahara S. (1993). Classification of epilepsies and epileptic syndromes of childhood according to the 1989 ILAE classification. *Journal of Epilepsy*; 6(4):272-6.
- Ojewole JAO. (2000). Anticonvulsant evaluation of the methanolic extract of Seruridaca longipendunculata (Fresen.) (Family: Polygalaceae) root bark in mice. *J Pharm Pharmacol*; 52(9; SUPP/1): 286.

References

- Oliveira MGM, Monteiro MG, Macaubas C, Barbosa VP, Carlini EA. (1991). Pharmacologic and toxicologic effects of two Maytenus species in laboratory animals. *J Ethnopharmacol*; 34(1): 29-41.
- Olsen RW, Avoli M. (1997). GABA and epileptogenesis. *Epilepsia*; 38(4):399-407.
- Ozturk Y, Aydin S, Beis R, Baser KHC, Berberoglu H. (1996). Effects of Hypericum perforatum L. and Hypericum calycinum L. extracts on the central nervous system in mice. *Phytomedicine*; 3(2): 139-146.
- Pahuja M, Mehla J, Reeta KH, Tripathi M, Gupta YK. (2013). Effect of Anacyclus pyrethrum on pentylenetetrazole-induced kindling, spatial memory, oxidative stress and rho-kinase II expression in mice. *Neurochemical research*; 38(3):547-56.
- Pahwa P, Goel RK. (2016). Ameliorative effect of Asparagus racemosus root extract against pentylenetetrazol-induced kindling and associated depression and memory deficit. *Epilepsy & Behavior*; 57:196-201.
- Pannasch U, Rouach N. (2013). Emerging role for astroglial networks in information processing: from synapse to behavior. *Trends in neurosciences*; 36(7):405-17.
- Parmar C, Kaushal MK. (1982). Pyrus pashia Buch. & Ham. Wild Fruits. Kalyani Publishers, New Delhi, India. 1982:78-80.
- Patil MS, Patil CR, Patil SW, Jadhav RB. (2011). Anticonvulsant activity of aqueous root extract of Ficus religiosa. *Journal of ethnopharmacology*; 2011 Jan 7; 133(1):92-6.

References

- Pei YQ, Cao LG, Xie SJ, Kai ZJ, MU QZ. (1981). Central pharmacological action of Cynanchum otophyllum Schneid. *Pei-Ching I Hsueh Yuan Hsueh Pao*; 13(3): 213-218.
- Pei YQ. (1983). Depressant action of fructus Piperis longi on the central nervous system. *Chung I Tsa Chih*; (Engl Ed) 3(1): 17-22.
- Pfeifer E, Zechner L. (1953). About preparations of Valerian roots. *Sci Pharm*; 21: 250.
- Pferschy-Wenzig EM, Bauer R. (2015). The relevance of pharmacognosy in pharmacological research on herbal medicinal products. *Epilepsy & Behavior*; 52:344-62.
- Picard M, Hirano M. (2016). Disentangling (epi) genetic and environmental contributions to the mitochondrial 3243A> G mutation phenotype: Phenotypic destiny in mitochondrial disease? *JAMA neurology*; 73(8):923-5.
- Pieretti KS, Di Giannuario A, Goleffi C, Copasso A, Nicoletti M. (1993). Analgesic and anticonvulsive effects of Cadia rubra extract. *Pharmacol Res*; 27: 41-42.
- Pitkanen A, Immonen RJ, Grohn OH, Kharatishvili I. (2009). From traumatic brain injury to posttraumatic epilepsy: what animal models tell us about the process and treatment options. *Epilepsia*; 50:21-9.
- Prasad S, Malholtra CL. (1968). Withania ashwagandha. VI. Effect of alkaloidal fractions (actone, alcohol and water soluble) on the central nervous system. *Indian J Physiol Pharmacol* 12(4): 175-181.
- Putnam TB, Merritt HH. (1937). Experimental determination of the anticonvulsant properties of some phenyl derivatives. *Science*.

References

- Qu S, Wu Y, Wang Y, Pan D. (1984). Inhibitory effect of tall oplopanax (Oplopanax elatus) oil on the central nervous system. *Chung Ts'ao Yao*; 15: 259-261.
- Quintans-Júnior LJ, Almeida RN, Falcão ACGM, Agra MF, Sousa MFV, Barbosa-Filho JM. (2002). Avaliação da Atividade Anticonvulsivante de Plantas do Nordeste Brasileiro. *Acta Farm Bonaer*; 21(3): 179-184.
- Quintans-Júnior LJ, Almeida RN, Falcão ACGM, Agra MF, Sousa MFV, Barbosa-Filho JM. (2002). Avaliação da Atividade Anticonvulsivante de Plantas do Nordeste Brasileiro. *Acta Farm Bonaer*; 21(3): 179-184.
- Quintans-Júnior LJ, Silva DA, Siqueira JS, Souza MFV, Barbosa-Filho JM, Almeida RN. (2007). Anticonvulsant properties of the total alkaloid fraction of Rauvolfia ligustrina Roem. et Schult. in male mice. *Rev Bras Farmacogn*; 17(2): 29-34.
- Qulu L, Daniels WM, Russell V, Mabandla MV. (2016). Searsia chirindensis reverses the potentiating effect of prenatal stress on the development of febrile seizures and decreased plasma interleukin-1 β levels. *Neuroscience research*; 103:54-8.
- Rajput MA, Khan RA, Assad T. (2017). Anti-epileptic activity of Nelumbo nucifera fruit. *Metabolic brain disease*; 32(6):1883-7.
- Ramaekers VT, Bosman B, Jansen GA, Wanders RJ. Increased plasma malondialdehyde associated with cerebellar structural defects. (1997). *Archives of disease in childhood*; 77(3):231-4.

References

- Ramalingam R, Nath AR, Madhavi BB, Nagulu M, Balasubramaniam A. (2013). Free radical scavenging and antiepileptic activity of Leucas lanata. *Journal of Pharmacy Research*; 6(3):368-72.
- Ramirez BED, Ruiz NN, Arellano JDQ, Madrigal BR, Michel MTV, Garzon P. (1998). Anticonvulsant effects of Magnolia grandiflora l. in the rat. *J Ethnopharmacol*; 61(2): 143-152.
- Rana A, Singh HP. (2013). Bio-utilization of wild berries for preparation of high valued herbal wines. *Journal of Natural Products and Resources*; 4(2):165-169.
- Rana SDD, Saluja AK. (1990). Pharmacological screening of the alcoholic extract of the leaves of Rubus ellipticus. Indian J Pharm Sci 52: 174-177.
- Rao YH, Brooks-Kayal AR. (2012). Experimental models of seizures and epilepsies. *In Progress in molecular biology and translational science*; 105, 57-82.
- Raskin I, Ribnicky DM, Komarnytsky S, Ilic N, Poulev A, Borisjuk N, Brinker A, Moreno DA, Ripoll C, Yakoby N, O'Neal JM. (2002). Plants and human health in the twenty-first century. *TRENDS in Biotechnology*; 20(12):522-31.
- Raygude KS, Kandhare AD, Ghosh P, Bodhankar SL. (2012) Anticonvulsant effect of fisetin by modulation of endogenous biomarkers. *Biomedicine & Preventive Nutrition*; 2(3):215-22.
- Raza M, Shaheen F, Choudhary MI, Sombati S, Rafiq A, Suria A, DeLorenzo RJ. (2001). Anticonvulsant activities of ethanolic extract and aqueous fraction isolated from Delphinium nudatum. *Journal of ethnopharmacology*; 78(1):73-8.

References

- Raza M, Shaheen F, Choudhary MI, Suria A, Atta-Ur-Rahman, Sombati S, Delorenzo. (RJ 2001). Anticonvulsant activities of the fs-1 subfraction isolated from roots of *Delphinium nudatum*. *Phytother Res* 15; (5): 426430.
- Reddy AJ, Dubey AK, Handu SS, Sharma P, Mediratta PK, Ahmed QM, Jain S. (2018). Anticonvulsant and Antioxidant Effects of *Musa sapientum* Stem Extract on Acute and Chronic Experimental Models of Epilepsy. *Pharmacognosy research*; 10(1):49.
- Redza-Dutordoir M, Averill-Bates DA. Activation of apoptosis signalling pathways by reactive oxygen species. (2016). *Biochimica et Biophysica Acta (BBA)-Molecular Cell Research*; 1863(12):2977-92.
- Remy S, Urban BW, Elger CE, Beck H. (2003). Anticonvulsant pharmacology of voltage-gated Na⁺ channels in hippocampal neurons of control and chronically epileptic rats. *European Journal of Neuroscience*; 17(12):2648-58.
- Reznick AZ, Packer L. (1994). Oxidative damage to proteins: spectrophotometric method for carbonyl assay. In *Methods in enzymology*; 233: 357-363.
- Rho JM, Donevan SD, Rogawski MA. (1997). Barbiturate-like actions of the propanediol dicarbamates felbamate and meprobamate. *Journal of Pharmacology and Experimental Therapeutics*; 280(3):1383-91.
- Ritz MC, George FR. (1997). Cocaine-induced convulsions: pharmacological antagonism at serotonergic, muscarinic and sigma receptors. *Psychopharmacology*; 129(4):299-310.

- Rodrigues AD, Scheffel TB, Scola G, dos Santos MT, Fank B, de Freitas SC, Dani C, Vanderlinde R, Henriques JA, Coitinho AS, Salvador M. (2012). Neuroprotective and anticonvulsant effects of organic and conventional purple grape juices on seizures in Wistar rats induced by pentylenetetrazole. *Neurochemistry international*; 60(8):799-805.
- Rodrigues AS, Perez-Gregorio MR, García-Falcon MS, Simal-Gandara J, Almeida DP. (2011). Effect of meteorological conditions on antioxidant flavonoids in Portuguese cultivars of white and red onions. *Food Chemistry*; 124(1):303-8.
- Rodriguez EB, Droy-Lefaix MT, Bazan NG. (1993). Decreased electroconvulsive shock-induced diacylglycerols and free fatty acid accumulation in the rat brain by Ginkgo biloba extract (EGb 761): selective effect in hippocampus as compared with cerebral cortex. *J Neurochem*; 61(4): 1438-1444.
- Rogawski MA, Loscher W. (2004). The neurobiology of antiepileptic drugs. *Nature Reviews Neuroscience*; 5(7):553.
- Rogawski MA, Porter RJ. (1990). Antiepileptic drugs: pharmacological mechanisms and clinical efficacy with consideration of promising developmental stage compounds. *Pharmacological reviews*; 42(3):223-86.
- Rogawski MA. (2006). Diverse mechanisms of antiepileptic drugs in the development pipeline. *Epilepsy research*. 69(3):273-94.
- Rousinov KS, Athanasova-Shopova S. (1966). Experimental screening of the anticonvulsive activity of certain plants used in popular medicine in Bulgaria. *Acad Bulg Sci*; 19 (4): 333-336.

References

- Rudolph U, Mohler H. (2004). Analysis of GABAA receptor function and dissection of the pharmacology of benzodiazepines and general anesthetics through mouse genetics. *Annu. Rev. Pharmacol. Toxicol.*; 44:475-98.
- Rundfeldt C. (1997). The new anticonvulsant retigabine (D-23129) acts as an opener of K⁺ channels in neuronal cells. *European journal of pharmacology*; 336(2-3):243-9.
- Sahu S, Dutta G, Mandal N, Goswami AR, Ghosh T. (2012). Anticonvulsant effect of Marsilea quadrifolia Linn. on pentylenetetrazole induced seizure: A behavioral and EEG study in rats. *Journal of ethnopharmacology*; 141(1):537-41.
- Said SA, El Kashef HA, El Mazar MM, Salama O. (1996). Phytochemical and pharmacological studies on Lactuca sativa seed oil. *Fitoterapia*; 67(3): 215-219.
- Sakamoto K, Karelina K, Obrietan K. (2011). CREB: a multifaceted regulator of neuronal plasticity and protection. *Journal of neurochemistry*; 116(1):1-9.
- Sakina MR, Dandiya PC, Hamdard ME, Hameed A. (1990). Preliminary psycho pharmacological evaluation of Ocimum sanctum leaf extract. *J Ethnopharmacol*; 28(2): 143-150.
- Saklani S, Chandra S. (2012). In vitro antimicrobial activity nutritional profile of medicinal plant of Garhwal, Himalaya. *Int J Pharm Sci Res*; 3:268-72.
- Salin PA, Prince DA. (1996). Electrophysiological mapping of GABAA receptor-mediated inhibition in adult rat somatosensory cortex. *Journal of neurophysiology*; 75(4):1589-600.
- Santos FA, Rao VSN, Silveira ER. (1996). Studies on the neuropharmacological effects of Psidium guyanensis and Psidium pohlianum essential oils. *Phytother Res*; 10(8): 655-658.

References

- Santos FA, Rao VSN, Silveira ER. (1997). The leaf essential oil of *Psidium guyanensis* offers protection against pentylenetetrazole-induced seizures. *Planta Med*; 63(02): 133-135.
- Sayyah M, Mahboubi A, Kamalinejad M. (2002). Anticonvulsant effect of the fruit essential oil of Cuminum cyminum in mice. *Pharm Biol* ;40(6): 478-480.
- Schachter SC. (2009). Botanicals and herbs: a traditional approach to treating epilepsy. *Neurotherapeutics*; 6(2):415-20.
- Schaffer S, Halliwell B. (2012). Do polyphenols enter the brain and does it matter? Some theoretical and practical considerations. *Genes & nutrition*; 7(2):99.
- Scharfman H, Goodman J, Macleod A, Phani S, Antonelli C, Croll S. (2005). Increased neurogenesis and the ectopic granule cells after intrahippocampal BDNF infusion in adult rats. *Experimental neurology*; 192(2):348-56.
- Segal MM, Douglas AF. (1997). Late sodium channel openings underlying epileptiform activity are preferentially diminished by the anticonvulsant phenytoin. *Journal of Neurophysiology*; 77(6):3021-34.
- Shamsizadeh A, Fatehi F, Baniasad FA, Ayoobi F, Rezvani ME, Roohbakhsh A. (2016). The effect of Zataria multiflora Boiss hydroalcoholic extract and fractions in pentylenetetrazole-induced kindling in mice. *Avicenna journal of phytomedicine*; 6(6):597.
- Sharma P, Kumari A, Gulati A, Krishnamurthy S, Hemalatha S. (2017). Chrysin isolated from Pyrus pashia fruit ameliorates convulsions in experimental animals. *Nutritional neuroscience*. 29:1-9.

- Sharma P, Kumari A, Gulati A, Krishnamurthy S, Hemalatha S. (2017). Chrysin isolated from Pyrus pashia fruit ameliorates convulsions in experimental animals. *Nutritional neuroscience*; 29:1-9.
- Sharma P, Patti P, Agnihotry A. (2013). Ethnobotanical and Ethnomedicinal uses of floristic diversity in Murari Devi and surrounding areas of Mandi district in Himachal Pradesh, India. *Pak. J. Bio. Sci.* 2013; 16(10):451-68.
- Sharma S, Gautam AK, Bhaduria R. (2009). Some important supplementary food plants and wild edible fungi of upper hilly region of district Shimla (Himachal Pradesh), India. *Ethnobotanical Leaflets*; 2009(8):6.
- Sharma UK, Sharma K, Sharma N, Sharma A, Singh HP, Sinha AK. (2007). Microwave-assisted efficient extraction of different parts of Hippophae rhamnoides for the comparative evaluation of antioxidant activity and quantification of its phenolic constituents by reverse-phase high-performance liquid chromatography (RP-HPLC). *Journal of agricultural and food chemistry*; 56(2):374-9.
- Sharma V, Kumar HV, Rao LJ. (2008) Influence of milk and sugar on antioxidant potential of black tea. *Food Research International*; 41(2):124-9.
- Sharmaxvn, Barar SK, Khanna NK, Mahawar MM. (1965). Some pharmacological actions of Convolvulus pluricaulis, an Indian indigenous herb. *Indian J Med Res*; 53(9): 871.
- Sheng M, Kim E. (2011). The postsynaptic organization of synapses. *Cold Spring Harbor perspectives in biology*; 3(12): a005678.

References

- Shibata M, Ikoma M, Onoda M, Sato F, Sakurai N. (1980). Pharmacological studies on the chinese crude drug “shoma”. III. central depressant and antispasmodic actions of Cimicifuga rhizoma, Cimicifuga simplex wormsk. *Yakugaku Zasshi*; 100(11): 1143-1150.
- Shih JJ, Tatum WO, Rudzinski LA. (2013). New drug classes for the treatment of partial onset epilepsy: focus on perampanel. *Therapeutics and clinical risk management*. 9:285.
- Shimada T, Yamagata K. (2018). Pentylenetetrazole-Induced Kindling Mouse Model. *JoVE (Journal of Visualized Experiments)*; 12(136): e56573.
- Shin SE, Ghimeray AK, Park CH. (2014). Investigation of Total Phenolic, Total Flavonoid, Antioxidantand Allyl Isothiocyanate Content In The Different Organs Of Wasabi Japonica Grown In An Organic System. African Journal of Traditional, *Complementary and Alternative Medicines*; 11(3):38-45.
- Shukla B, Khanna NK, Godhwani JL. (1987). Effect of brahmi rasayan on the central nervous system. *J Ethnopharmacol* 21(1): 65-74.
- Siddiqui SZ, Ali S, Rubab K, Abbasi MA, Ajaib M, Rasool ZG. (2015). Pyrus pashia: A persuasive source of natural antioxidants. *Pakistan journal of pharmaceutical sciences*; 28(5):1763-1722.
- Silva AFS, Andrade JP, Bevilaqua LRM, Souza MM, Izquierdo I, Henriques AT, Zuanazzi JAS. (2006). Anxiolytic, antidepressant and anticonvulsant-like effects of the alkaloid montanine isolated from Hippeastrum vittatum. *Pharmacol Biochem Behav*; 85(1): 148-154.
- Simon OR, Singh N. (1986). Demonstration of anticonvulsant properties of an aqueous extract of spirit weed (Eryngium foetidum L.). *W Indian Med J*; 35(2): 121125.

References

- Singh D, Singh B, Goel RK. (2012). Role of saponins for the anticonvulsant effect of adventitious roots of *Ficus religiosa*. *Pharmaceutical biology*; 50(7):816-22.
- Singh N, Singh SP, Kohli RP, Bhargava KP. (1985). Indian plants as anti-stress agents. *Nat Prod Coll Pharm Univ N Carolina, Abstract*-202.
- Singh P, Singh D, Goel RK. (2014). *Ficus religiosa* L. figs—a potential herbal adjuvant to phenytoin for improved management of epilepsy and associated behavioral comorbidities. *Epilepsy & Behavior*; 41:171-8.
- Sinha BN, Sasmal D, Basu SP. (1997). Pharmacological studies on *Melothria maderaspatana*. *Fitoterapia*; 68(1): 75-78.
- Skalicka-Wozniak K, Walasek M, Aljarba TM, Stapleton P, Gibbons S, Xiao J, Łuszczki JJ. (2018). The anticonvulsant and anti-plasmid conjugation potential of *Thymus vulgaris* chemistry: an in vivo murine and in vitro study. *Food and chemical toxicology*; 120:472-8.
- Sohal VS, Keist R, Rudolph U, Huguenard JR. (2003). Dynamic GABA_A receptor subtype-specific modulation of the synchrony and duration of thalamic oscillations. *Journal of Neuroscience*; 23(9):3649-57.
- Sokomba E, Wambebe C, Chowdhury BK, Iriah J, Ogbeide ON, Orkor D. (1986). Preliminary phytochemical, pharmacological and antibacterial studies of the alkaloidal extracts of the leaves of *Synclisia scabrida* miers. *J Ethnopharmacol*; 18(2): 173-185.
- Souza LC, Antunes MS, Borges Filho C, Del Fabbro L, de Gomes MG, Goes AT, Donato F, Prigol M, Boeira SP, Jesse CR. (2015). Flavonoid Chrysin prevents age-related cognitive decline via

References

attenuation of oxidative stress and modulation of BDNF levels in aged mouse brain. *Pharmacology Biochemistry and Behavior*; 134:22-30.

Souza MF, Santos FA, Rao VSN, Sidrim JJC, Matos FJA, Machedo MIL, Silveria ER. (1998). Antinociceptive, anticonvulsant and antibacterial effects of the essential oil from the flower heads of Eglete viscosa L. *Phytother Res*; 12(1): 28-31.

Spence I, Jamieson DD, Taylor KM. (1979). Anticonvulsant activity of farnesylacetone epoxide-a novel marine natural product. *Experientia*; 35(2): 238.

Speroni E, Minghetti A. (1988). Neuropharmacological activity of extracts from Passiflora incarnata. *Planta Med* 54; (06): 488-491.

Stafford GI, Pedersen ME, van Staden J, Jager AK. (2008). Review on plants with CNS-effects used in traditional South African medicine against mental diseases. *Journal of ethnopharmacology*; 119(3):513-37.

Stoyanov N, Stefanov Z, Mitrev A, Nikolova M, Vankov S, Taskov M, Peneva M. (1981). Study of the contents of biologically active compounds in wild Bulgarian plants. Nauchnoizsled Khim Farm Inst 11: 90-110.

Sucher NJ. (2006). Insights from molecular investigations of traditional Chinese herbal stroke medicines: implications for neuroprotective epilepsy therapy. *Epilepsy & Behavior*; 8(2):350-62.

Sudha S, Kumaresan S, Amit A, David J, Venkataraman BV. (2002). Anti-convulsant activity of different extracts of Centella asiatica and Bacopa monnieri in animals. *J Nat Rem*; 2(1): 33-41.

References

- Sugaya A, Tsuda T, Sugaya E, Takato M, Takamura K. (1978). Effects of chinese medicine Saiko-Keishi-To on the abnormal bursting activity of snail neurons. *Planta Med*; 34(07): 294-298.
- Sugaya E, Ishige A, Sekiguchi K, Iizuka S, Ito K, Sugimoto A, Aburada M, Hosoya E. (1988). Inhibitory effect of TJ- 960(SK) on pentylenetetrazole-induced EEG power spectrum changes. *Epilepsy Res*; 2(1): 27-31.
- Sugaya E, Ishige A, Sekiguchi K, Iizuka S, Ito K, Sugimoto A, Aburada M, Hosoya E. (1988). Inhibitory effect of TJ- 960(SK) on pentylenetetrazole-induced EEG power spectrum changes. *Epilepsy Res*; 2(1): 27-31.
- Sugaya E, Sugaya A, Kajiwara K. (1997). Nervous diseases and Kampo (Japanese herbal) medicine: a new paradigm of therapy against intractable nervous diseases. *Brain Dev-Jpn*; 19(2): 93-103.
- Sun JN, Xu QP, Wu JY, Wang F, Ma LX, Chen MT, Yang CS. (1991). Actions of volatile oils from the three kinds.
- Suzdak PD, Jansen JA. (1995). A review of the preclinical pharmacology of tiagabine: a potent and selective anticonvulsant GABA uptake inhibitor. *Epilepsia*; 36(6):612-26.
- Taddese A, Bean BP. (2002). Subthreshold sodium current from rapidly inactivating sodium channels drives spontaneous firing of tuberomammillary neurons. *Neuron*; 33(4):587-600.
- Taesotikul T, Panthong A, Kanjanapothi D, Verpoorte R, Scheffer JJC. (1998). Neuropharmacological activities of the crude alkaloidal fraction from stems of Tabernaemontana pandacaqui Poir. *J Ethnopharmacol*; 62(3): 229-234.

- Tagarelli G, Tagarelli A, Liguori M, Piro A. (2013). Treating epilepsy in Italy between XIX and XX centuries. *Journal of ethnopharmacology*; 145(2):608-13.
- Taiwe GS, Kouamou AL, Ambassa AR, Menanga JR, Tchoya TB, Dzeufiet PD. (2017). Evidence for the involvement of the GABA-ergic pathway in the anticonvulsant activity of the roots bark aqueous extract of Anthocleista djalonensis A. Chev. (Loganiaceae). *Journal of basic and clinical physiology and pharmacology*; 28(5):425-35.
- Taiwe GS, Moto FC, Ayissi ER, Ngoupaye GT, Njapdounke JS, Nkantchoua GC, Kouemou N, Omam JP, Kandeda AK, Pale S, Pahaye D. (2015). Effects of a lyophilized aqueous extract of Feretia apodanthera Del. (Rubiaceae) on pentylenetetrazole-induced kindling, oxidative stress, and cognitive impairment in mice. *Epilepsy & Behavior*; 43:100-8.
- Taiwe GS, Moto FC, Pale S, Kandeda AK, Dawe A, Kouemou N, Ayissi ER, Ngoupaye GT, Njapdounke JS, Nkantchoua GC, Omam JP. (2009). Extracts of Feretia apodanthera Del. demonstrated anticonvulsant activities against seizures induced by chemicals and maximal electroshock. *Epilepsy research*. 127:30-9.
- Taiwe GS, Tchoya TB, Menanga JR, Dabole B, De Waard M. (2016). Anticonvulsant activity of an active fraction extracted from Crinum jagus L. (Amaryllidaceae), and its possible effects on fully kindled seizures, depression-like behaviour and oxidative stress in experimental rodent models. *Journal of ethnopharmacology*; 194:421-33.
- Takagi K. (1977). Pharmacological studies on Ginseng. Korean Ginseng Studies. *Chem Pharmacol*; 346-357.

References

- Tambe R, Patil A, Jain P, Sancheti J, Somani G, Sathaye S. (2017). Assessment of luteolin isolated from Eclipta alba leaves in animal models of epilepsy. *Pharmaceutical biology*; 55(1):264-8.
- Tapiero H, Tew KD, Ba GN, Mathe G. (2002). Polyphenols: do they play a role in the prevention of human pathologies? *Biomedicine & pharmacotherapy*; 56(4):200-7.
- Taverna S, Mantegazza M, Franceschetti S, Avanzini G. (1998). Valproate selectively reduces the persistent fraction of Na⁺ current in neocortical neurons. *Epilepsy research*; 32(1-2):304-8.
- Taverna S, Sancini G, Mantegazza M, Franceschetti S, Avanzini G. (1999). Inhibition of transient and persistent Na⁺ current fractions by the new anticonvulsant topiramate. *Journal of Pharmacology and Experimental Therapeutics*; 288(3):960-8.
- Tchekalarova J, Kubova H, Mares P. (2009). Postnatal caffeine treatment affects differently two pentylenetetrazol seizure models in rats. *Seizure*; 18(7):463-9.
- Thesleff S. (1980). Amino pyridines and synaptic transmission. *Neuroscience*; 5(8):1413-9.
- Thompson SM, Gahwiler BH. (1992). Effects of the GABA uptake inhibitor tiagabine on inhibitory synaptic potentials in rat hippocampal slice cultures. *Journal of neurophysiology*. 67(6):1698-701.
- Thorne RF. (2002). How many species of seed plants are there? *Taxon*; 51(3):511-2.
- Tortoriello J, Anguilar-Santamaria L. (1996). Evaluation of the calcium-antagonist, antidiarrhoeic and central nervous system activities of Baccharis serraefolia. *J Ethnopharmacol* ; 53(3): 157-163.
- Tortoriello J, Lozoya X. (1992). Effect of Galphimia glauca methanolic extract on neuropharmacological tests. *Planta Med*; 58(03): 234-236.

- Tortoriello J, Ortega A. (1993). Sedative effect of galphimine B, a nor-seco-triterpenoid from Galphimia glauca. *Planta Med* ; 59(05): 398-400.
- Tsuda T, Kubota K, Yasuda K, Sugaya A, Sugaya E. (1986). Effect of Chinese herbal medicine "Kanbaku-Taiso-To" on neuropharmacological tests. *J Ethnopharmacol*; 15(3): 289-296.
- Tsuda T, Sugaya A, Kaneko E, Oghuchi H, Katoh K, Jin W, Sugaya E. (1998). pharmacological studies on longgu and oyster shell. *Nat Med*; 52: 300-309.
- Tsuda T, Sugaya A, Ohguchi H, Kishida N, Sugaya E. (1997). Protective effects of peony root extract and its components on neuron damage in the hippocampus induced by the cobalt focus epilepsy model. *Exp Neurol* 146(2): 518-525.
- Tubaş F, Per S, Taşdemir A, Bayram AK, Yıldırım M, Uzun A, Saraymen R, Gümüş H, Elmalı F, Per H. (2017). Effects of *Cornus mas* L. and *Morus rubra* L. extracts on penicillin-induced epileptiform activity: an electrophysiological and biochemical study. *Acta Neurobiol Exp*; 77:45-56.
- Tubaş F, Per S, Taşdemir A, Bayram AK, Yıldırım M, Uzun A, Saraymen R, Gümüş H, Elmalı F, Per H. (2017). Effects of *Cornus mas* L. and *Morus rubra* L. extracts on penicillin-induced epileptiform activity: an electrophysiological and biochemical study. *Acta Neurobiol Exp*; 77:45-56.
- Turrens JF. (2003). Mitochondrial formation of reactive oxygen species. *The Journal of physiology*; 552(2):335-44.

References

- Ullah I, Ullah N, Naseer MI, Lee HY, Kim MO. (2012) Neuroprotection with metformin and thymoquinone against ethanol-induced apoptotic neurodegeneration in prenatal rat cortical neurons. *BMC neuroscience*; 13(1):11.
- Uttara B, Singh AV, Zamboni P, Mahajan RT. (2009). Oxidative stress and neurodegenerative diseases: a review of upstream and downstream antioxidant therapeutic options. *Current neuropharmacology*; 7(1):65-74.
- Valko M, Rhodes C, Moncol J, Izakovic MM, Mazur M. (2006) Free radicals, metals and antioxidants in oxidative stress-induced cancer. *Chemico-biological interactions*; 160(1):1-40.
- Vasconcelos SMM, Lima NM, Sales GTM, Cunha GMA, Aguiar LMV, Silveira ER, Rodrigues ACP, Macedo DS, Fonteles MMF, Sousa FCF. (2007). Anticonvulsant activity of hydroalcoholic extracts from Erythrina velutina and Erythrina mulungu. *J Ethnopharmacol*; 110(2): 271-274.
- Vazquez-Freire MJ, Castro E, Lamela M, Calleja JM. (1995). Neuropharmacological effects of Cystoseira usneoides extract. *Phytother Res*; 9(3): 207-210.
- Velíšek L. (2006). Models of chemically-induced acute seizures. In *Models of seizures and epilepsy*; 127-152). Academic Press.
- Vieira RA, Lapa AJ, Lima TCM. (2002). Evaluation of the central activity of the ethanolic extract of Acosmium subelegans(Mohlenbr) in mice. *Rev Bras Farmacogn*; 12: 50-51.
- Viola H, Wasowaski C, Marder M, Wolfman C, Paladini AC. (1997). Sedative and hypnotic properties of Salvia guaranitica St. Hil. and of its active principle, cirsiliol. *Phytomedicine* 4(1): 47-51.

References

- Viola H, Wasowski C, Levi de Stein M, Wolfman C, Silveira R, Dajas F, Medina JH, Paladini AC. (1995). Apigenin, a component of Matricaria recutita flowers, is a central benzodiazepine receptors-ligand with anxiolytic effects. *Planta Med; 61(03): 213-216.*
- Viswanatha GL, Mohan CG, Shylaja H, Yuvaraj HC, Sunil V. (2013). Anticonvulsant activity of 1, 2, 3, 4, 6-penta-O-galloyl-β-D-glucopyranose isolated from leaves of Mangifera indica. *Naunyn-Schmiedeberg's archives of pharmacology; 386(7):599-604.*
- Viswanatha GL, Venkataranganna MV, Prasad NB, Godavarthi A. (2017). Achyranthes aspera Attenuates epilepsy in experimental animals: possible involvement of GABAergic mechanism. *Metabolic brain disease; 32(3):867-79.*
- Viswanatha GL, Venkataranganna MV, Prasad NB. (2017). Ameliorative potential of Colebrookea oppositifolia methanolic root extract against experimental models of epilepsy: Possible role of GABA mediated mechanism. *Biomedicine & Pharmacotherapy; 90:455-65.*
- Vorhees CV, Williams MT. (2006). Morris water maze: procedures for assessing spatial and related forms of learning and memory. *Nature protocols; 1(2):848.*
- Wagner H, Bladt S. (1996). Plant drug analysis: a thin layer chromatography atlas. Springer Science & Business Media.
- Waldbaum S, Patel M. (2010). Mitochondrial dysfunction and oxidative stress: a contributing link to acquired epilepsy? *Journal of bioenergetics and biomembranes ;42(6):449-55.*

References

- Wang C, Bomberg E, Billington CJ, Levine AS, Kotz CM. (2010). Brain-derived neurotrophic factor (BDNF) in the hypothalamic ventromedial nucleus increases energy expenditure. *Brain research*; 1336:66-77.
- Wang Y, Qin ZH. Molecular and cellular mechanisms of excitotoxic neuronal death. (2010). *Apoptosis*; 15(11):1382-402.
- Wasowski C, Marder M. (2012). Flavonoids as GABA_A receptor ligands: the whole story? *Journal of experimental pharmacology*; 4:9.
- Watanabe K, Watanabe H, Goto Y, Yamaguchi M, Yamamoto N, Hagino K. (1983). Pharmacological properties of magnolol and honnokiol extracted from Magnolia officinalis: central depressant effects. *J Med Plant Res*; 49(10): 103-108.
- White HS, Brown SD, Woodhead JH, Skeen GA, Wolf HH. (1997). Topiramate enhances GABA-mediated chloride flux and GABA-evoked chloride currents in murine brain neurons and increases seizure threshold. *Epilepsy research*; 28(3):167-79.
- Wickenden AD. (2002). Potassium channels as anti-epileptic drug targets. *Neuropharmacology*; 43(7):1055-60.
- Woermann FG, Sisodiya SM, Free SL, Duncan JS. (1998). Quantitative MRI in patients with idiopathic generalized epilepsy. Evidence of widespread cerebral structural changes. *Brain: a journal of Neurology*; 121(9):1661-7.
- World Health Organization (1998). Quality control methods for medicinal plant materials.

References

- Wu C, Yu Q. (1984). Pharmacological studies on Bupleurum chinense and its active ingredient, crude saikosaponin. *Shenyang Yaoxueyuan Xuebao*; 1: 214-218.
- Ya'u J, Yaro AH, Abubakar MS, Anuka JA, Hussaini IM. (2008). Anticonvulsant activity of Carissa edulis (Vahl) (Apocynaceae) root bark extract. *Journal of ethnopharmacology*; 120(2):255-8.
- Yamahara J, Sawada T, Tani T, Nishino T, Kitagawa I, Fujimura H. (1977). Biologically active principles of crude drugs. pharmacological evaluation of the crude drug “zhu”. *Yakugaku Zasshi* 97;: 873.
- Yamashima T. (2012). ‘PUFA–GPR40–CREB signaling’ hypothesis for the adult primate neurogenesis. *Progress in lipid research*; 51(3):221-31.
- Yao Y, Chen L, Xiao J, Wang C, Jiang W, Zhang R, Hao J. (2014). Chrysin protects against focal cerebral ischemia/reperfusion injury in mice through attenuation of oxidative stress and inflammation. *International journal of molecular sciences*; 15(11):20913-26.
- Yemm EW, Willis AJ. (1954). The estimation of carbohydrates in plant extracts by anthrone. *Biochemical journal*. 1954 Jul; 57(3):508.
- Yen YC. (1977). Antiepileptic action of traditional Chinese medicinal herbs. *Chung-Hua I Hsueh Tsa Chih (Beijing)*; 57: 497.
- Yoshitomi S, Watanabe M, Kawanishi F, Satake M. (2000). Quality and their sedative effects of japanese Valerian roots. *Nat Med*; 54(2): 55-56.

References

Zhao M, Cai L, He JM, Yin TP, Sui YC, Luo MT, Ding ZT. (2013). Chemical constituents from the branches and leaves of Pyrus pashia Buch. -Ham. ex D. Don. *Chinese Journal of Chemistry*; 33:1284-90.