

References

References

- Aarti, C., Upadhyay, A. and Shukla, R.N., 2012. **Isolation of quercetin from the leaves of *Azadirachta indica* and antidiabetic study of the crude extracts.** *Journal of Pharmaceutical and Biomedical Sciences*, 25(25): 179-181.
- Abena, A.A., Kintsangoula, M.G.S., Diantama, J. and Bioka, D., 1993. **Analgesic effects of a raw extract of *Ageratum conyzoides* in the rat.** *Encephale.*, 19(4): 329-332.
- Abirami, H., and Suresh Kumar, P., 2013. ***In vitro* regeneration and extraction of secondary metabolites in *Aegle marmelos* L.** *Asian Journal of Plant Science and Research*, 3(2): 99-106.
- Acedo, V.Z., Damasco, O.P., Laurena, A.C., Sta Cruz, P.C., Namuco, L.O. and Lalusin, A.G., 2018. **Shoot tip splitting for rapid micropropagation of Philippine taro [*Colocasia esculenta* (L.) Schott].** *IJAAR*, 6: 38-46.
- Adebayo, A.H., Tan, N.H., Akindahunsi, Zeng, G.Z. and Zhang, Y.M., 2010. **Anticancer and antiradical Scavenging activity of *Ageratum conyzoides* L. (Asteraceae).** *Pharmacol. Mag.*, 6(21): 62-66.
- Adhikari, R. and Kraus, W., 1994. **Bioactive constituents of *Eupatorium adenophorum* Spreng (Banmara).** *Chem. J. Nepal*, 13: 34-36.
- Aditi, K., Supradip, S., Suresh, W., Najam, A., Shakil, Kumar, J. and Annapurna, K., 2013. **Cadinene sesquiterpenes from *Eupatorium adenophorum* and their antifungal activity.** *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes. Food Contaminants, and Agricultural Wastes*, 48(6): 516-522.
- Adlis, S., Sanusi, I., Reny, S. and Daimon, S., 2014. **Isolation and structure elucidation of coumarin derivate from fruit seeds of *Clausena excavate*.** *Journal of Chemical and Pharmaceutical Research*, 6(2): 753-757.
- Afolabi, C., Akinmoladun, E., Ibukun, O. and Dan-Ologe, I.A., 2007. **Phytochemical constituents and antioxidant properties of extracts from the leaves of *Chromolaena odorata*.** *Scientific Research and Essay*, 2(6): 191-194.
- Agarwal, B.B., Kumar, A. and Bharti, A.C., 2003. **Anticancer potential of curcumin: preclinical and clinical studies.** *Anticancer Res.*, 23: 363-398.

- Agnese, G., Dace, K. and Gederts, I., 2010. ***In vitro* propagation of an endangered plant *Saussurea esthonica***. *Environmental and Experimental Biology*, 10(8): 43-48.
- Agrawal, V. and Sardar, P.R., 2006. ***In vitro* propagation of *Cassia angustifolia* through leaflet and cotyledon derived calli**. *Biologia plantarum*, 50(1): 118-122.
- Ahmad, R., Sharma, V.K., Rai, A.K., R.D. and Shivananda, B.G., 2007. **Production of lignans in callus culture of *Podophyllum hexandrum***. *Tropical Journal of Pharmaceutical Research*, December, 6(4): 803-808.
- Ahmed, B.A., Macalou, S., Borrelli, F., Capasso, R., Fattorusso, E. and Tagliatela, S.O., 2007. **Nonprenylated rotenoids, a new class of potent breast cancer resistance protein inhibitors**. *Journal of Medicinal Chemistry*, 50(8): 1933-1938.
- Ajay, G.N., Ajay, S., Lohidasan, S., Devanand, F. and Kakasaheb, R.M., 2010. **HPTLC Densitometric Evaluation of Tissue Culture Extracts of *Nothapodytes foetida* Compared to Conventional Extracts for Camptothecin Content and Antimicrobial Activity**. *Planta Med.*, 76: 474-480.
- Akah, P.A., 1990. **Mechanism of Hemostatic Activity of *Eupatorium odoratum***. *International Journal of Crude Drug Research*, 28(4): 253-256.
- Akash, T., Sehrish, S., Kaiwen, P. Ihteram, U., Sakina, M., Feng, S., Olatunji, O.A., Altanzagas, B., Zilong, L., Dagang, S., Qinli, X., Riaz, U., Suliman, K., Buddha, B.B., Brawin, K., Rabiul, I. and Muhammad, A., 2017. **A systematic review on ethnomedicines of anticancer plants**. *Phytotherapy research*, 1-63.
- Akinmoladun, A.C. and Akinloye, O., 2007. **Effect of *Chromolaena odorata* on hypercholesterolemia-related metabolic imbalances**. *Proceedings of Akure-Humbold Kellog Third SAAT Annual Conference FUTA.*, 287-298.
- Akinyemi, K.O., Oladapo, O., Okwara, C.E., Ibe, C.C. and Fasure, K.A., 2005. **Screening of crude extracts of six medicinal plants used in South-West Nigerian unorthodox medicine for antimethicillin resistant *Staphylococcus aureus* activity**. *BMC Complement Altern. Med.*, 5: 6-8.

- Alam, N. and Anis, M., 2019. **Influence of silver nitrate in enhancing the *in vitro* shoot regeneration in *Mucuna pruriens* (L.) Dc.-A multipurpose medicinal legume.** *RJLBPCS*, 5(2): 476-488.
- Albuquerque, M.R.J.R., Santos, H.S., Souza, E.B., Silva, R.M., Pessoa, O.D.L., Braz-Filho, R. and Costa, S.M.O., 2010. **Composicao quimica volatil e nao-volatil de *Eupatorium ballotifolium* Kunth, Asteraceae.** *Rev. Bras. Farmacogn.*, 20: 615-620.
- Aldon, G.D., Vikas, V., Ravikiran, V., Bhagat, D. and Jaydeep, G.N., 2013. **Separation and quantification of pharmacologically active markers boeravinone b, eupalitin-3-o- β -d-galactopyranoside and β -sitosterol from *Boeravia diffusa* linn and from marketed formulation.** *International Journal of Pharmacy and Pharmaceutical Sciences*, 5(3): 953-956.
- Ali, I., and Braun, D.P., 2014. **Resveratrol enhances mitomycin C-mediated suppression of human colorectal cancer cell proliferation by up-regulation of p21WAF1/CIP1.** *Anticancer Res.*, 34: 5439-5446.
- Alisi, C.S., Onyeze, G.O.C., Ojiako, O.A. and Osuagwu, C.G., 2011. **Evaluation of the Protective Potential of *Chromolaena odorata* Linn. Extract on Carbon Tetrachloride-Induced Oxidative Liver Damage.** *International Journal of Biochemistry Research*, 1(3): 69-81.
- Almagboul, A.Z., Farrog, A.A. and Tyagi, B.R., 1985. **Antimicrobial activity of certain Sudanese plants used in folkloric medicine: Screening for antibacterial activity.** *Fitoter.*, 56:103-105.
- Amarowicz, R. and Pegg, R.B., 2008. **Legumes as a source of natural antioxidants.** *Eur J Lipid Sci Technol.*, 110: 865-878.
- Amatya, S. and Tuladhar, S.M., 2011. ***In vitro* antioxidant activity of extracts from *Eupatorium odoratum*,** *Res J.L., medicinal plant*, 5: 79-86.
- American Cancer Society, 2016. **Global cancer Facts & Figures.** 2nd Edition, *Inc., Surveillance Research*, 1-51.
- Amin, A. and Mousa, M., 2007. **Merits of anti-cancer plants from the Arabian Gulf region.** *Cancer Therapy*, 5: 55-66.
- Amoo, S., Finnie, J. and Van Staden, J., 2009. ***In vitro* propagation of *Huernia hystrix*: An endangered medicinal and ornamental succulent.** *Plant Cell Tissue and Organ Culture*, 96(3): 273-278.

- Amudha, M. and Rani, S., 2014. **GC-MS Analysis of bioactive components of *Cordial retusa*, *Hygeia*.** *Journal of Drugs and Medicines*, 6(1): 12-19.
- Anand, P., Kunnumakara, A.B., Sundaram, C., Harikumar, K.B., Tharakan, S.T., Lai, O.S., Sung, B. and Aggarwal, B.B., 2008. **Cancer is a preventable disease that requires major lifestyle changes.** *Pharmaceutical Research*, 25: 2097-2116.
- Anand, D.C., Meena, R. and Patni, V., 2018. ***In vitro* callus induction and comparative gc-ms analysis of methanolic extracts of callus and leaf samples of *Ampelocissus latifolia* (Roxb.) Planch.** *International Journal of Pharmacy and Pharmaceutical Sciences*, 10(9): 68-72.
- Andrea, G., 2015. **Quercetin: a flavonol with multifaceted therapeutic applications.** *Fitoterapia.*, 106: 256-271.
- Anirban, B., Satadru, B., Soumitra, D.M., Monojit, D. and Moulisha, B., 2012. **The Antioxidant Effects of *Eupatorium triplinerve*, *Hygrophila triflora* and *Pterocarpus marsupium*-A Comparative Study.** *European Journal of Applied Sciences*, 4(3): 136-139.
- Anjoo, K. and Ajay, K.S., 2017. **Development of validated HPTLC method for quantification of stigmasterol from leaf and stem of *Bryophyllum pinnatum*.** *Arabian Journal of Chemistry*, 10: S2644-S2650.
- Anna, P., 2017. **Micropropagation of *Asparagus densiflorus* via axillary shoots, indirect organogenesis and somatic embryogenesis.** *Folia Hort.*, 29(2): 143-153.
- Anne, G.B. and Claude, M., 2009. **Essential oil of *Ayapana triplinervis* from Reunion Island: A good natural source of thymohydroquinone dimethyl ether.** *Biochemical Systematics and Ecology*, 36: 853-858.
- Anonymous, 1992. **The Use of Traditional Medicine in Primary Health Care.** World Health Organisation South East Asia, I edition, AITBS, Publishers, New Delhi.
- Ansari, S., Jain, P., Tyagi, R.P., Joshi, B.C. and Barar, F.S.K., 1983. **Phytochemical and pharmacological studies of the aerial parts of *Eupatorium adenophorum* L.** *Herba Polonica*, 29: 93-96.
- Anyasor, G.N., Aina, D.A., Olushola, M. and Aniyikaye, A.F., 2011. **Phytochemical constituent, proximate analysis, antioxidant, antibacterial and wound healing properties of leaf extracts of**

Chromolaena odorata. *Annals of Biological Research. Source Academic Journal type Article*, 2(2): 441-449.

- Arif, J., George, T., Abdul, S., Neelofar, J. and Mohammad, K.I., 2010. **Improved micropropagation of an endangered medicinal plant- *Picrorhiza kurroa* Royle, Promptly through auxin treatments.** *Chiang Mai J.sci.*, 37(2): 304-313.
- Arockiasami, D.I. and Ignacimuthu, S., 1998. **Plant Biotechnology.** *Oxford and IBH publishing Co.Pvt.Ltd*:180.
- Arun, K., Pingal, K. and Shukla, L.N., 2012. **In vitro rooting in the tissue culture raised plantlets of Malbhog cultivar of Banana.** *Indian J. Innovations Dev.*, 1(9): 665-667.
- Arun, S., Devinder, S.R. and Amit, K.S., 2013. **Tissue Culture, Phytochemical and Pharmacological Study of *Bacopa monnieri*.** *Asian Journal of Biochemical and Pharmacological Research*, 3(1): 243-260.
- Arung, E.T., Wicaksono, B.D., Handoko, Y.A., Kusuma, I.W., Yulia, D. and Sandra, F., 2009. **Anti- cancer properties of Diethylether Extract of Wood from Sukun (*Antocarpus altilis*) in Human Breast Cancer (T47D) cells).** *Tropical journal of Pharmaceutical Research*, 8(4): 217-324.
- Arunkumar, S. and Muthuselvam, M., 2009. **Analysis of Phytochemical Constituents and Antimicrobial Activities of *Aloe vera* L. against Clinical Pathogens.** *World Journal of Agricultural Sciences*, 5(5): 572-576.
- Asha, B.K. and Balasaheb, M.G., 2017. **Quantitative HPTLC analysis of Diosgenin from methanol extract of *Moringa oleifera* Lam.** *Asian Journal of Applied Science and Technology*, 1(1): 215-218.
- Asha, D., Lizzy, M. and Rishad, K.S., 2015. **Evaluation of hptlc fingerprints of flavonoids and antioxidant activity of selected medicinal plants of lamiaceae family.** *International Journal of Pharmacognosy and Phytochemical Research*, 7(2): 240-245.
- Ashim, K., Chakravarty, T.M. and Shankar, N.C., 2011. **Anti-inflammatory potential of ethanolic leaf extract of *Eupatorium adenophorum* Spreng through alteration in production of TNF-, ROS and expression of certain genes. Evid. Based Complement. Alternat. Med.**, 1-11.

- Asif, M. and Khodadadi, E., 2013. **Medicinal uses and chemistry of flavonoid contents of some common edible tropical plants.** *Journal of Paramedical Sciences*, 4(3): 119- 138.
- Attimarad, M., Ahmed, K.K., Dhubiab, B.E. and Harsha, S., 2011. **High-performance thin layer chromatography: A powerful analytical technique in pharmaceutical drug discovery.** *Pharmaceutical Methods*, 2(2): 71-75.
- Aung, T.N., Qu, Z., Kortschak, R.D. and Adelson, D.L., 2017. **Understanding the effectiveness of natural compound mixtures in cancer through their molecular mode of action.** *Int J Mol Sci.*, 18(3): 656-659.
- Ayyanar, M. and Ignacimuthu, S., 2009. **Herbal medicines for wound healing among tribal people of Southern India, ethnobotanical and scientific evidences.** *Int. J. Appl. Res.Nat. Prod.*, 2: 29-42.
- Babu, T.D., Kuttan, G. and Padikkala, J., 1995. **Cytotoxic and anti-tumour properties of certain taxa of Umbelliferae with special reference to *Centella asiatica* (L.) Urban.** *J Ethnopharmacol.*, 48: 53-57.
- Bakrudeen, A.A., Rao, A.S., Rao, M.V. and Rosna, M.T., 2013. **HPTLC/HPLC and Gravimetric Methodology for the Identification and Quantification of Gymnemic Acid from *Gymnema sylvestre* methanolic extracts.** *Acta Chromatographica*, 25(2): 1-23.
- Bantawa, P. and Rai, R., 2009. **Studies on ethnomedicinal plants used by traditional practitioners, Jhankri; Bijuwa and Phedangma in Darjeeling Himalaya.** *Natural Product Radiance*, 8(5): 537-541.
- Banu, K.S. and Cathrine, L., 2015. **General Techniques Involved in Phytochemical Analysis.** *International Journal of Advanced Research in Chemical Science*, 2(4): 25-32.
- Banu, N.A., Islam, S., Islam, M.A. and Alam, M.K., 2017. ***In vitro* Propagation from Shoot Tip and Nodal Segment in Summer Tomato (*Lycopersicon esculentum* Mill.).** *Plant Environ. Dev.*, 6(1): 31-38.
- Bao, M.F., Yan, J.M., Cheng, G.G., Li, X.Y., Liu, Y.P. and Li, Y., 2013. **Cytotoxic indole alkaloids from *Tabernaemontana divaricata*.** *J Nat Prod.*, 76: 1406-1412.
- Barkat, A., Mujeeb, M., Harshita, A. and Rahman, A., 2015. **Analysis of vincristine in leaf and callus extract by validated hptlc technique**

- and its stress degradation studies.** *British Journal of Pharmaceutical Research*, 7(5): 308-318.
- Basto, S., Serrano, C. and Jaramillo, E.H., 2012. **Effects of donor plant age and explants on *in vitro* culture of *Cedrela montana* Moritz ex Turcz.** *Universitas Scientiarum*, 17(3): 263-271.
- Beena, M.R., Martin, K.P., Kirti, P.B. and Hariharam, M., 2003. **Rapid *in vitro* propagation of medicinally important *Ceropegia candelabrum*.** *Plant Cell, Tissue and Organ Culture*, 72(3): 285-289.
- Bernhard, S.V., Victor, A.M., Sonja, S., Harald, H., Elisabeth, I., Veronika, S., Hermann, S. and Roswitha, P., 2010. **Anticancer activity of novel plant extracts from *Trailliaedoxa gracilis* (w. w. Smith & Forrest) in human carcinoid KRJ-I cells.** *Anticancer research*, 30: 55-64.
- Bertram, J.S., 2001. **The molecular biology of cancer.** *Molecular Aspects of Medicine*, 21:167-223.
- Bhagyashree, B. and Sanjib, B., 2016. **The importance of assessing heavy metals in medicinal herbs: a quantitative study.** *TANG (Humanitas)*, 6(1): 1-4.
- Bhaskar, V.H., and Rajalakshmi, V., 2010. **Anti-tumor activity of aqueous extract of *Biophytum sensitivum* Linn.** *Annals Biol Res.*, 1(3): 76-80.
- Bhojwani, S.S. and Razdan, M.K., 1996. **Plant tissue culture: Theory and Practice: Developments in crop science. 5,** Elsevier, Amsterdam.
- Bhourri, W., Boubaker, J., Skandrani, I., Ghedira, K. and Ghedira, L.C., 2012. **Investigation of the apoptotic way induced by digallic acid in human lymphoblastoid TK6 cells.** *Cancer Cell Int.*, 12: 26.
- Binguo, Min, G. and Chun, Z.L., 2007. ***In vitro* propagation of an endangered medicinal plant *Saussurea involucrate* Kar.** *Plant cell reporter*, 26: 261-265.
- Binish, T. and Nayagi, J.N., 2019. **Micropropagation of endangered medicinal plant *Ceropegia candelabrum* L.** *The Pharma Innovation Journal*, 8(3): 273-277.
- Binoy, V.C., Viswanathan, S., Jagan, N., Parimala, K., Vijaykumar, S. and Venugopal, V., 2013. **Anti-inflammatory activity of alcoholic extract of *E. triplinerve* (Vahl) and its fractionsL possible mechanisms.** *Indo American Journal of Pharmaceutical Research*, 3(9): 1-8.

- Bipranch, K.T., Sony, B., Anoop, K., Ranadhir, C. and Runu., 2015. **The *in vitro* cytotoxic activity of ethno-pharmacological important plants of Darjeeling district of West Bengal against different human cancer cell lines.** *BMC Complementary and Alternative Medicine*, 15: 22-28.
- Bohlmann, F. and Gupta, R., 1981. **Six cadinene derivatives from *Ageratina adenophora*.** *Phytochemistry*, 20: 1432-1433.
- Bonjar, G.H.S., Nik, A.K. and Aghighi, S., 2004. **Antibacterial and antifungal survey in plants used in indigenous herbal medicine of south east regions of Iran.** *J. Biol Sci.*, 4: 405-412.
- Bono, A.J.S., Oudard, S., Ozguroglu, M., Hansen, S., Machiels, J.P. and Kocak, I., 2010. **Prednisone plus cabazitaxel or mitoxantrone for metastatic castration-resistant prostate cancer progressing after docetaxel treatment: a randomised open-label trial.** *Lancet*, 376: 1147-54.
- Bose, P., Gupta, M., Mazumder, U.K., Kumar, R.S., Sivakumar, T. and Kumar, R.S., 2007. **Hepatoprotective and Antioxidant effects of *Eupatorium ayapana* against carbon tetrachloride induced hepatotoxicity in rats.** *Iranian Journal of Pharmacology and Therapeutics*, 6: 27-33.
- Bouayad, N., Rharrabe, K., Lamhamdi, M., Nourouti, N.G. and Sayah, F., 2011. **Dietary effects of harmine, a β -carboline alkaloid, on development, energy reserves and an amylase activity of *Plodia interpunctella* Hübner (Lepidoptera: Pyralidae).** *Saudi Journal of Biological Sciences*, 19(1): 73-80.
- Bounda, H., Tapondjou, L.A., Fontem, D.A. and Gumedzoe, M.Y.D., 2001. **Effect of essential oils from leaves of *Ageratum conyzoides*, *Lantana camara* and *Chromolaena odorata* on the mortality of *Sitophilus zeamais* (Coleoptera, Curculionidae).** *J. Stored Prod. Res.*, 37: 103-109.
- Bray, F., Ren, J.S., Masuyer, E. and Ferlay, J., 2013. **Estimates of global cancer prevalence for 27 sites in the adult population in 2008.** *Int J Cancer*, 132(5): 1133-1145.
- Brown, G.D., Denning, D.W., Gow, N.A., Levitz, S.M., Netea, M.G. and White, T.C., 2012. **Hidden killers: human fungal infections.** *Science translational medicine*, 4(165): 1-10.
- Bruyne, T., Pieters, L., Deelstra, H. and Vlietinck, A., 1999. **Condensed vegetables tannins: biodiversity in structure and biological activities.** *Biochemical System Ecology*, 27: 445-59.

- Bunyapraphatsara, N. and Chokechaijaroenporn, O., 2000. **The medicinal plants.** *Faculty of pharmacy, Mahidol University and National Center for Genetic Engineering and Biotechnology, Bangkok*, 4: 622-626.
- Butler, M.S., 2004. **The role of natural product chemistry in drug discovery.** *Journal of Natural Products*, 67 (12): 2141– 2153.
- Cai,Q., Lin, J., Wei, L., Zhang, L., Wang, L., Zhan, Y., Zeng, J., Xu, W., Shen, A., Hong, Z. and Peng, J., 2012. **Hedyotis diffusa Willd Inhibits Colorectal Cancer Growth *in vivo* via Inhibition of STAT3 Signaling Pathway.** *Int J Mol Sci.*, 13(5): 6117-6128.
- Cao, J.P., Liu, X., Hao, J.G. and Zhang, X.Q., 2005. **Tissue culture and plantlet regeneration of *Gentiana macrophylla*.** *Bot Boreali Occident Sin.*, 25(6): 1101-1106.
- Cartan, S.A. and Staden, V.J., 2003. **Micropropagation of the endangered *Kniphofia leucocephala* Baijnath.** *In vitro Cellular Developmental Biology-Plant*, 39: 496-499.
- Carvalho, C.C.D., Machado, K.M. and Ferreira, P.M.P., 2013. **Biological screening of extracts of Brazillian Asteraceae plants.** *Afr J Pharm Pharmacol.*, 7: 2000-2005.
- Carvalho, M.J.S., Eder, J.O., Antonio, S.S., Luziane, B.A. and Marcela, T.A., 2017. **Agronomic performance of *Cassava* genotypes from the *In vitro* shoot tip culture submitted to clonal cleaning.** *Biosci. J., Uberlandia*, 33(5): 1144-1154.
- Castaneda, P., Gomez, L., Mata, R., Lotina,H.B., Anaya, A.L. and Bye, R., 1996. **Phytogrowth inhibitory and antifungal constituents of *Helianthella quinquenervis*.** *Journal of Natural Products*, 59: 323-326.
- Catherine, N., Kaminski, S., Ferrey, L., Timothy, L., Leo, G., Severine, V.S., Wim, F.A. and Steelant, A., 2010. ***In vitro* anticancer activity of *Anemopsis californica*.** *Oncology letters*, 1: 711-715.
- Cechovska, L., Cejpek, K., Konecny, M. and Velisek, J., 2011. **On the role of 2, 3-dihydro-3, 5- dihydroxy -6- methyl- (4H)-pyran-4-one in antioxidant capacity of prunes.** *Eur Food Res Technol.*, 233: 367-376.
- Chaabani, G., Tabart, J., Kevers, C., Dommès, J., Khan, M.I., Zaoui, S., Chebchoub, L., Lachaal, M. and Karray, B.N., 2015. **Effects of 2,4-dichlorophenoxyacetic acid combined to 6-Benzylaminopurine on callus induction, total phenolic and ascorbic acid production, and**

antioxidant activities in leaf tissue cultures of *Crataegus azarolus* L.
Acta Physiologiae Plantarum, 37: 16-20.

Chah, K.F., Eze, C.A., Emuelosi, C.E. and Esimone, C.O., 2006. **Antibacterial and wound healing properties of methanolic extracts of some Nigerian medicinal plants.** *J. Ethnopharmacol.*, 1019: 1619-1621.

Chakraborty, G.S., 2009. **Determination of Quercetin By HPTLC In *Tagetes erectus* Extract.** *J Glob Pharma Technol.*, 1: 21-28.

Chan, B.M.J., Balanza, E., Deharo, E., Mu noz, V., Garcia, R.D. and Pena, R.L.M., 2003. **Variation of leishmanicidal activity in four populations of *Urechites andrieuxii*.** *Journal of Ethnopharmacology*, 86: 243-247.

Chan, L.L., Sherine, G., Irfan, A., Saujanya, G.L., Atiya, A., Cunningham, B.T. and Watkin, K.L., 2011. **Cytotoxicity effects of *Amoora rohituka* and chittagonga on Breast and Pancreatic Cancer Cells.** *Evid Based Complement Alternat Med.*, 1-8.

Chanda, S. and Nagani, K., 2013. ***In vitro* and *in vivo* methods for anticancer activity evaluation and some Indian medicinal plants processing anticancer properties: An overview.** *J Pharmacog Phytochem.*, 2: 140-152.

Chandel, H.S., Pathak, A.K. and Tailang, M., 2011. **Standardization of some herbal antidiabetic drugs in polyherbal formulation.** *Pharm. Res.*, 3(1): 49-56.

Charoensin, S., 2014. **Antioxidant and anticancer activities of *Moringa oleifera* leaves.** *Journal of medicinal plant research*, 8(7): 318-325.

Chase, C.R. and Pratt, R.J., 1949. **Fluorescence of powdered vegetable drugs with particular reference to development of a system of identification.** *Journal American pharmacology association*, 38: 32-37.

Chaturvedi, R. and Mulchandani, N.B., 1989. **Coumarins from *Eupatorium ayapana*.** *Journal of Indian Chemical Society*, 66: 286-287.

Chaturvedi, H.C., Jain, M. and Kidwai, N.R., 2007. **Cloning of medicinal plants through tissue culture- A review.** *Indian J. Exp. Biol.*, 45: 937-948.

Cheah, K.Y., Howarth, G.S., Bindon, K.A., Kennedy, J.A. and Bastian, S.E., 2014. **Low molecular weight procyanidins from grape seeds enhance**

the impact of 5-Fluorouracil chemotherapy on Caco-2 human colon cancer cells. *PLoS One*, 9(6): 1-8.

- Checker, R., Sharma, D., Sandur, S.K., Subrahmanyam, G., Krishnan, S. and Poduval, T.B., 2010. **Plumbagin inhibits proliferative and inflammatory responses of T cells independent of ROS generation but by modulating intracellular thiols. *J Cell Biochem.*, 110: 1082-93.**
- Chengxin, F., Yingxiong, Q. and Hanghui, K., 2003. **RAPD analysis for genetic diversity in *Changium smyrnioides* (Apiaceae), an endangered plant. *Bot. Bull. Acad. Sin.*, 44: 13-18.**
- Cheriyian, B.V., Venkatadri, N., Viswanathan, S. and Kamalakannan, P., 2009. **Screening of alcoholic extract of *Eupatorium triplinerve* Vahl and its fractions for its antinociceptive activity. *Indian Drugs*, 46 (10): 797-802.**
- Chinthala, P. and Ciddi, V., 2014. **Quantitative determination of nitidine from roots and plant tissue culture extracts of *Toddalia asiatica* (Linn.) using HPTLC. *American Journal of Analytical Chemistry*, 5: 65-69.**
- Chishti, N.T.N. and Siddiqui, B.A., 2003. **Direct multiple shoot regeneration in *Mentha arvensis* L. *Advances in Plant Sciences*, 16(1): 1-4.**
- Choedan, T., Mathan G., Arya, S., Kumar, V.L. and Kumar, V., 2006. **Anticancer and cytotoxic properties of the latex of *Calotropis procera* in a transgenic mouse model of hepatocellular carcinoma. *World Journal of Gastroenterology*, 12(16): 2517-2522.**
- Christy, S. and Anusha, B., 2012. **GC-MS Analysis of Phytochemicals in the Methanolic Extract of *Eupatorium triplinerve*. *International Journal of Drug Development & Research*, 4(4): 0975-9344.**
- Cochrane, C.B., Nair, P.K., Melnick, S.J., Resek, A.P. and Ramachandran, C., 2008. **Anticancer effects of *Annona glabra* plant extracts in human leukemia cell lines. *Anticancer Res.*, 28: 965-971.**
- Colombo, V., Lupi, M., Falchetta, F., Forestieri, D., D'Incalci, M. and Ubezio, P., 2011. **Chemotherapeutic activity of silymarin combined with doxorubicin or paclitaxel in sensitive and multidrug-resistant colon cancer cells. *Cancer Chemother Pharmacol.*, 67: 369-79.**
- Coyle, T., Levante, S., Shetler, M. and Winfield, J., 1994. ***In vitro* and *in vivo* cytotoxicity of gossypol against central nervous system tumor cell lines. *Journal of Neuro-Oncology*, 19: 25-30.**

- Cowan, M.M., 1999. **Plants products as antimicrobial agents.** *Clinical Microbiology*, 12: 564-582.
- Cui, S., Tan, S., Ouyang, G., Jiang, S. and Pawliszyn, J., 2009. **Headspace solid-phase microextraction gas chromatography-mass spectrometry analysis of *Eupatorium odoratum* extract as an oviposition repellent.** *J. Chromatogr.*, B 877: 1901-1906.
- Cui, Y., Yanwen, D., Keyuan, Z., Xiaomin, H., Mulan, Z., Xiaomei, D. and Ruchun, X., 2019. **An efficient micropropagation protocol for an endangered ornamental tree species (*Magnolia sirindhorniae* Noot. & Chalermglin) and assessment of genetic uniformity through DNA markers.** *Scientific Reports*, 9: 9634-9734.
- Cunha, L.E.V, Fechine, I.M. and Guides, D.N., 2005. **Protoberberine alkaloids, in: The alkaloids; Chemistry and Biology.** 1st edition, ISBN: 0-12-469562-0. Elsevier Academic Press, London, 62.
- Dadhich, H. and Khanna, R., 2008. **Pathological, haemato-biochemical and immunological studies of cutaneous ectoparasitoses in dogs.** *In: Proceedings of the 15th Congress of FAVA.* FAVA-OIE Joint Symposium on Emerging Diseases, Bangkok, Thailand.
- Dahanukar, S.A., Kulkarni, R.A. and Rege, N.N., 2000. **Pharmacology of medicinal plants and natural products.** *Indian J Pharmacol.*, 32: 81-118.
- Damodar, S.Y., Mukhopadhyay, S.K., Ayub Shah, M.A., Ayub Ali, M. and Tolankhomba, T.C., 2012. **Effects of *Eupatorium adenophorum* on antioxidant enzyme status in a mice model.** *International Journal of Pharmacy and Pharmaceutical Sciences*, 4(1): 436-439.
- Das, A., Gantait, S. and Mandal, N., 2011. **Micropropagation of an elite medicinal plant: *Stevia rebaudiana* Bert.** *Int. J.Agric.Res.*, 6: 40-48.
- Dash, G. K. and Murthy, P.N., 2011. **Wound healing effects of *Ageratum conyzoides* Linn.** *International Journal of Pharma and Bio Sciences*, 2(2): 369-383.
- De, M., Krishna, D.A. and Banerjee, A.B., 1999. **Antimicrobial screening of some Indian spices.** *Phytother. Res.*, 1: 616-618.
- Deb, C.R. and Imchen, T., 2010. **An efficient in vitro hardening technique of tissue culture raised plants.** *Biotechnology*, 9: 79-83.
- Deb, C.R., Deb, M.S. and Jamir, N.S., 2014. **Effect of different factors on in vitro axillary shoot proliferation and plant regeneration of**

Cinnamomum tamala Nees: A spice yielding plant. *Indian journal of Biotechnology*, 13: 520-526.

- Debashish, P., Santosh Kumar, D. and Gouri Kumar, D., 2010. **Qualitative phytochemical analysis and investigation of anthelmintic and wound healing potentials of various extracts of *Chromolaena Odorata* linn, collected from the locality of Mohudavillage, Berhampur (South Orissa).** *International Journal of Pharmaceutical Sciences Review and Research*, 1(2): 122-126.
- Debergh, P.C., Demeester, J.O. and Riek, J.D., 1992. **Ecological and physiological aspects of tissue-cultured plants.** *Acta Botanica Neerlandica*, 41: 417-423.
- Delgado, G., Tejada, V., Salas, A., Chavez, M.I., Guzman, S., Bola nos, A., Aguilar, M.I., Navarro, V. and Villarreal, M.L., 1998. **New melampolides from *Schkuhria schkuhrioides*.** *Journal of Natural Products*, 61: 1082-1085.
- De-Lucca A., Clevaland T., Rajasekaran K., Boue S. and Brown, B., 2005. **Fungal properties of CAY-1, a plant saponin, for emerging fungal pathogens.** 45th Interscience Conference in *Antimicrobial agents and Chemotherapy* Abstract, F: 490,180.
- Dennis T.T. and Bobban, P., 2005. **Thidiazuron-Induced High-frequency shoot organogenesis from leaf derived callus of a medicinal climber, *Tylophora Indica* (Burm.F.) Maril.** *In vitro cell.dev.biol-plant*, 41:124-128.
- Desingh, M., Jessy, M.J., Prasun, B., Karthikeyan, M., Bharath, G. and Ramya, M., 2014. **Phytochemical analysis and anti-microbial activity of *Eupatorium glandulosum*.** *Int.J.Curr.Microbiol.App.Sci.*, 3(7): 882-885.
- Dhar, U., Manjkhola, S., Joshi, M., Bhatt, A., Bisht, A.K. and Joshi, M., 2002. **Current status and future strategy for development of medicinal plants sector in Uttaranchal, India.** *Curr. Sci.*, 83(8): 956-965.
- Dhar, U. and Joshi, M., 2005. **Efficient plant regeneration protocol through callus for *Saussurea obvallata* (DC.) Edgew. (Asteraceae): effect of explant type, age and plant growth regulators.** *Plant Cell Rep.*, 24(4): 195-200.
- Dhavalala, A. and Rathor, T.S., 2010. **Micropropagation of *Embelia ribes* Burm f. through proliferation of adult axillary shoots.** *In vitro cell dev boil-plant*, 46: 180-191.

- Din, A.R.J.M., Ahmad, F.I., Wagiran, A., Samad, A.A., Rahmat, Z. and Sarmidi, M.R., 2016. **Improvement of efficient *in vitro* regeneration potential of mature callus induced from Malaysian upland rice seed (*Oryza sativa* cv. Panderas).** *Saudi J Biol Sci.*, 23(1): S69-S77.
- Ding, J.K., Wanf, P., Yu, X.J., Yi, Y.F. and Ding, Z.H., 1992. **Essential oil composition of *Ageratina adenophora*.** *Chem Abstr.*, 117: 556-558.
- Doad, R., Puja, S., Dhiman, S.R., Priyanka, S., 2019. **Development of *in vitro* Propagation Protocol for Newly Developed Mutants of Carnation (*Dianthus caryophyllus* L.).** *Int. J.Curr. Microbiol. App. Sci.*, 8(4): 183-195.
- Dolara, P., Luceri, C., De Filippo, C., Femia, A.P., Giovannelli, L., Carderni, G., Cecchini, C., Silvi, S., Orpianesi, C. and Cresci, A., 2005. **Red wine polyphenols influence carcinogenesis, intestinal microflora, oxidative damage and gene expression profiles of colonic mucosa in F344 rats.** *Mutation Research*, 591: 237-46.
- Doskotch, R.W., Malik, M.Y., Hufford, C.D. and Malik, S.N., 1972. **Antitumor agents. V. Cytotoxic cardenolides from *Cryptostegia grandiflora* (Roxb.) R. Br.** *Journal of Pharmaceutical Sciences*, 61(4): 570-573.
- Doss, A., Parivuguna, V., Vijayasanthi, M., Sruthi, S., 2011. **Antibacterial evaluation and phytochemical analysis of certain medicinal plants, Western Ghats Coimbatore.** *J. Res. Biol.*, 1: 24-29.
- Douglas, K.A., 2015. **Review of Anticancer Agents from Natural Products.** *J. Nat. Prod.*, 78(9): 2315-2315.
- Du, G.J., Wang, C.Z., Qi, L.W., Zhang, Z.Y., Calway, T. and He, T.C., 2013. **The synergistic apoptotic interaction of panaxadiol and epigallocatechin gallate in human colorectal cancer cells.** *Phytother Res.*, 27: 272-277.
- Durodola, J.I., 1977. **Antibacterial property of crude extracts from a herbal wound healing remedy-*Ageratum conyzoides* L.** *Planta Med.*, 32(19): 388-90.
- Dutra, D., Kane, M.E. and Richardson, L., 2009. **Asymbiotic seed germination and *in vitro* seedling development of *Cyrtopodium punctatum*: a propagation protocol for an endangered Florida native orchid.** *Plant Cell Tiss Organ Cult.*, 96: 235-243.

- Egunjobi, J.K., 1969. **Some common weeds of western Nigeria.** *Bull. Res. Div. Min. Agr. Nat. Resources, Western state Nigeria*, 2(4): 456-555.
- Einbonda, L.S., Soffritti, M., Esposti, D.D., Park, T. and Cruz, E., 2009. **Actein activates stress and statin-associated responses and is bioavailable in Sprague-Dawley rats.** *Fund Clin Pharmacol.*, 23: 311-321.
- Ekundayo, O., Laasko, I. and Hiltunen, R., 1988. **Essential Oil of *Ageratum conyzoides*.** *Planta Med.*, 519: 55-57.
- Escobar, G.F., Legaria-Solano, J.P., Vasquez, G. and Colinas, L.M.T., 2008. ***In vitro* propagation of *Oncidium stramineum* Lindl. -An endangered endemic Mexican orchid.** *Revista Chapingo Serie Horticultura*, 14(3): 347-353.
- Fadeyi, S.A., Olugbeminiyi, O., Fadeyi, A., Adejumo, A. and Cosmas, O., 2013. ***In vitro* anticancer screening of 24 locally used Nigerian medicinal plants and Elbert Lewis Myles.** *BMC Complementary and Alternative Medicine*, 13(79): 1-9.
- Fahad, A.Q., Mohammad, N., Salim, S., Saleh, A. and Mohamed, T., 2013. **Efficient regeneration of a potential medicinal plant *Ochradenus baccatus* delile from cotyledon and shoot axis.** *Pak.J.Bot.*, 45(2): 501-505.
- Faisal, M., Siddique, I. and Anis, M., 2006. **An efficient plant regeneration system for *Mucuna pruriens* L. (DC.) using cotyledonary node explants.** *In Vitro Cellular & Developmental Biology – Plant*, 42(1): 59-64.
- Feng, P.C., Haynes, L.J., Magnues, K.E. and Plimmer, J.R., 1964. **Further pharmacological screening of some West Indian medicinal plants.** *J. Pharm. Pharmacol.*, 16: 115-117.
- Ferlay, J., Dikshit, R., Elser, S., Mathers, C., Rebelo, M., Parkin, D.M., Forman, D. and Bray, F., 2013. **Cancer incidence and mortality worldwide: IARC CancerBase No. 11.**
- Fiuk, A. and Rybczynski, J.J., 2008. **Morphogenic capability of *Gentiana kurroo* Royle seedling and leaf explants.** *Acta Physiol Plantarum*, 30(2): 157-166.
- Fracaro, F. and Echeverrigaray, S., 2001. **Micropropagation of *Cunila galioides*, a popular medicinal plant of south Brazil.** *Plant Cell, Tissue and Organ Culture*, 64(1): 1-4.

- Frei, B., Heinrich, M., Bork, P., Herrmann, M., Jaki, D., Kato, B., Kuhnt, T., Schmitt, M., Schühly, J., Volken, W. and Sticher, C.O., 1998. **Multiple screening of medicinal plants from *Oaxaca mexico*: ethnobotany and bioassays as a basis for phytochemical investigation.** *Phytomedicine*, 5: 177-186.
- Fuchs, C., Mitchell, E.P. and Hoff, P.M., 2006. **Irinotecan in the treatment of colorectal cancer.** *Cancer treat rev.*, 32: 491-503.
- Gabriela, M.M., Karina, A.S., Arianny, N.S., Ilza, M.S., Sirlene, V.T., Glyn, M.F., Mary, A.F. and Joao, E.C., 2012. **The anticancer activity of dichloromethane crude extract obtained from *Calea pinnatifida*.** *Journal of Experimental Pharmacology*, 4: 157-162.
- Gaidhani, S.N., Arjun Singh, Suman Kumari, Lavekar, G.S., Juvekar, A.S., Sen, S. and Padhi, M.M., 2013. **Evaluation of some plant extracts for standardization and anticancer activity.** *Indian Journal of Traditional Knowledge*, 4: 682-687.
- Gajakosh, A.M., Jayaraj, M.V., Mathad, G.V. and Pattar, P.V., 2010. **Organogenesis from shoot tip and leaf explants of *Morinda citrifolia* L. An important medicinal tree.** Libyan Agriculture Research Centre., 1(4): 250-254.
- Garg, S.C. and Nakhare S., 1993. **Studies on the essential oil from the flowers of *Eupatorium triplinerve*.** *Indian Perfumer*, 37(4): 318-323.
- Gaurav, N., Singh, A.P., Srivastava, A., Kumar, A. and Hira, S.G., 2018. ***In vitro* propagation of *Withania somnifera* L. (dunal) from callus of embryonic cotyledon explants in B5 medium.** *Indian Forester.*, 144(1): 36-40.
- Gayathri, S., Divyalaxmi, D., Mithula, S. and Rupachandra, S., 2016. ***In-vitro* anticancer effect of methanolic seed coat extracts of *Momordica dioica* against human carcinoma cell lines.** *International Journal of chemtech research*, 9(2): 284-289.
- Geetha, P.S., Raghu, A.V., Gerald, M., Satheesh, G. and Balachandran, I., 2009. ***In vitro* Propagation of Two Tuberos Medicinal Plants: *Holostemma ada-kodien* and *Ipomoea mauritiana*. Protocols for *In vitro* Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants.** *Methods in Molecular Biology*, 547(1): 81-92.
- Gehlot, A., Arya, I.D. and Arya, S., 2017. **Regeneration of Complete Plantlets from Callus Culture of *Azadirachta indica* A. Juss using Immature Flower Buds.** *Advances in Forestry Science*, 4(1): 71-76.

- Ghani, A., 1998. **Medicinal Plants of Bangladesh.** *Asiatic Society of Bangladesh*, Dhaka, Bangladesh, 77-78.
- Ghosh, T., Maity, T.K. and Singh, J., 2011. **Evaluation of antitumor activity of stigmasterol, a constituent isolated from *Bacopa monnieri* Linn aerial parts against Ehrlich Ascites Carcinoma in mice.** *Orient Pharm Exp Med.*, 11: 41-49.
- Ginwal, H.S. and Maurya, S.S., 2010. **Evaluation and optimization of DNA extraction method for *Dalbergia sisso* leaf.** *Indian Journal of Biotechnology*, 9: 69-73.
- Gonzalez, R., Ballester, I., Lopez, P.R., Suarez, M.D., Zarzuelo, A., Martinez-Augustin, O. and Sanchez de Medina, F., 2011. **Effects of flavonoids and other polyphenols on inflammation.** *Critical Reviews in Food Science and Nutrition*, 51(4): 331-362.
- Gul, M.Z., Bhakshu, L.M., Ahmad, F., Kondapi, A.K., Qureshi, I.A. and Ghazi, I.A., 2011. **Evaluation of *Abelmoschus moschatus* extracts for antioxidant, free radical scavenging, antimicrobial and antiproliferative activities using *in vitro* assays.** *BMC Complement Altern Med.*, 17: 11-64.
- Gunes, F.E., 2013. **Medicinal use of Squalene as a natural antioxidant.** *Journal of Marmara University Institute of Health Sciences*, 3(4): 220-228.
- Guptaa, M., Mazumdera, U.K., Chaudhurib, I., Chaudhurib, R.K., Boseb, P., Bhattacharyaa, S., Manikandana, L. and Patraa, 2002. **Antimicrobial activity of *Eupatorium Ayapana*.** *Fitoterapia*, 73: 168-170.
- Gupta, D., Charle, R., Garg, S.N., 2004. **Chemical composition of the essential oil from the leaves of *Eupatorium triplinerve* Vahl.** *J. Essentl. Oil Res.*, 16(5): 473-475.
- Gupta, P., 2017. **Phytoconstituent Analysis Using Modern Analytical Techniques.** *Natural Products Chemistry & Research*, 5(2): 1-8.
- Gurudeeban, S., Ramanathan, T., Satyavani, K. and Dhinesh, T., 2011. **Standardization of DNA isolation and PCR protocol for RAPD analysis in *Suaeda* sp.** *Asian Journal of Biotechnology*, 3(5): 486-492.
- Guruvayoorappan, C. and Kuttan, G., 2007. **Immunomodulatory and antitumor activity of *Biophytum sensitivum* extract.** *Asian Pacific J Cancer Prev.*, 8(1):27-32.

- Habtemariam, S., 2001. **Antiinflammatory activity of the antirheumatic herbal drug, gravel root (*Eupatorium odoratum*), further biological activities and constituents.** *Phytother. Res.*, 15: 687-690.
- Hafidh, R.R., Abdulmir, A.S. and Bakar, F.A., 2013. **Novel anticancer activity and anticancer mechanisms of *Brassica oleracea* L. var. capitata f. rubr.** *Eur J Integrat Med.*, 5: 450-464.
- Hahm, E.R., Moura, M.B., Kelley, E.E., VanHouten, B., Shiva, S. and Singh, S.V., 2011. **Withaferin A-induced apoptosis in human breast cancer cells is mediated by reactive oxygen species.** *PLoS One*, 6 (8): 1-9.
- Hajra, M., Bidhan, C.K.V.P.K., Rao, R.R., Singh, P.K. and Uniyal, B.P., 1995. **Handbook on Medicinal and Aromatic Plants Cultivation in West Bengal.**
- Hanh, T.T.H., Hang, D.T.T., Minh, V.C. and Dat, T.N., 2011. **Antiinflammatory effects of fatty acids isolated from *Chromolaena odorata*.** *Asian Pac. J. Trop. Med.*, 4: 760-763.
- Harish Kumar, K., Shanmugavadivu, M., Ranjithkumar, R. and Selvam, K., 2014. **Antibacterial activity of leaf extracts of *Ageratina adenophora* L medicinal plant of Nilgiris Hill, Tamilnadu against human pathogens.** *International Journal of Biosciences and Nanosciences*, 1(1): 1-3.
- Harwood, M., Danielewska, N.B., Borzelleca, J.F., Flamm, G.W., Williams, G.M. and Lines, T.C., 2007. **A critical review of the data related to the safety of quercetin and lack of evidence of in vivo toxicity, including lack of genotoxic/carcinogenic properties.** *Food Chem Toxicol.*, 45: 2179-2205.
- Havlickova, B, Czaika, V.A. and Friedrich, M., 2008. **Epidemiological trends in skin mycoses worldwide.** *Mycoses.*, 51(4): 2-15.
- Hasan, S. and Qari, M., 2017. **Detection of genetic diversity among some species of *Anthemis* L. (Asteraceae) in Saudi Arabia by using RAPD-PCR analysis.** *African journal of Plant science*, 11(4): 92-98.
- He, S.S., Chun, Z.L. and Praveen, S.K., 2007. **Plant regeneration of an endangered medicinal plant *Hydrastis canadensis* L.** *Scientia Horticulturae*, 113: 82-86.
- He, J.H., Maoluo, G.J.S., Suchada, C., HoongKun, F.I., Williams, D., Herman H. and Sung, Y., 2008. **Cadinane Sesquiterpenes from the Leaves of *Eupatorium adenophorum* L.** *J. Nat. Prod.*, 71: 1485-1488.

- Hernandez, O.L.D., Alcantar-Diaz, B.E., Ruiz-Corro, L.A., Sandoval-Rodriguez, A., Bueno-Topete, M., Armendariz-Borunda, J. and Salazar-Montes, A.M., 2012. **Quercetin improves hepatic fibrosis reducing hepatic stellate cells and regulating pro-fibrogenic/anti-fibrogenic molecules balance.** *J Gastroenterol Hepatol.*, 27: 1865-1872.
- Hirata, T., Misato, F., Kazuhiro, A. and Noriyuki, Y., 2009. **Identification and physiological evaluation of the components from Citrus fruits as potential drugs for anti-corpulence and anticancer.** *Bioorganic & medicinal chemistry*, 17(1): 25-28.
- Hong, T., Jeong, M.L., Zahn, M., Fay, B.A., Lee, K. and Hwangbo, H., 2009. **Detection of the Potential Adulterant *Teucrium chamaedrys* in *Scutellaria baicalensis* Raw Material and Extract by High-Performance Thin-Layer Chromatography.** *J AOAC Int.*, 92: 785-788.
- Hoshi, Y., Tatsuro, Y., Hikaru, K. and Akiko, S., 2013. **Random Amplified Polymorphic DNA (RAPD) Analysis of Three Japanese *Aster* Species.** *Cytologia*, 78(3): 249-254.
- Hossan, S.M.D., Abu, H., Mujib, K., Sazzadul, B., Rownak, J. and Mohammed, R., 2009. **Ethnobotanical survey of the Tripura tribe of Bangladesh.** *American-Eurasian Journal of Sustainable Agriculture*, 3(2): 253-261.
- Hsouna, A.B., Trigui, M., Mansour, R.B., Jarraya, R.M., Damak, M. and Jaoua, S., 2011. **Chemical composition, cytotoxicity effect and antimicrobial activity of *Ceratonia siliqua* essential oil with preservative effects against *Listeria* inoculated in minced beef meat.** *Int J Food Microbiol.*, 148(1): 66-72.
- Huh, M.K., Bok, K.L. and Hak, Y.L., 2006. **Genetic diversity and phylogenetic relationships in five *Porphyra* species revealed by RAPD analysis.** *Protistology*, 4(3): 245-250.
- Hung, T.M., Cuong, T.D., Dang, N.H., Zhu, S., Long, P.Q., Komatsu, K. and Min, B.S., 2011. **Flavonoid glycosides from *Chromolaena odorata* leaves and their *in vitro* cytotoxic activity.** *Chem Pharm Bull (Tokyo)*, 59: 129-134.
- Hurakadle, P., Parashetti, M.K. and Pai, S.R., 2011. **Tissue culture studies on *Semecarpus kathalekanensis* an endangered medicinal plant.** *Planta Medica*, 77(12): 1-5.

- Hussaini, A.L., Yousif, Z.A. and Ajeely, S.A., 2015. **The role of sucrose and light duration on *in vitro* tuberization for two cultivars of Potato *Solanum tuberosum* L.** *Int.J.Curr.Microbiol.App.Sci.*, 2: 277-283.
- Ikewuchi, J.C. and Ikewuchi, C.C., 2011. **Anti-cholesterolemic effect of aqueous extract of the leaves of *Chromolaena odorata* (L) King and Robinson (Asteraceae): Potential for the Reduction of Cardiovascular Risk.** *Pacific Journal of Science and Technology*, 12(2): 385-391.
- Ikewuchi, J.C., Ikewuchi, C.C., Enuneku, E.C., Ihunwo, S.A., Osayande, O.I., Batubo, D.B. and Manuel, D.I.D., 2012. **Alteration of blood pressure indices and pulse rates by an aqueous extract of the leaves of *Chromolaena odorata* (L) King and Robinson (Asteraceae).** *Pacific Journal of Science and Technology*, 13(2): 348-358.
- Ikewuchi, J.C., Ikewuchi, C. and Ifeancha, M.O., 2013. **Analysis of the Phytochemical Composition of the Leaves of *Eupatorium odoratum* King and Robinson by Gas Chromatography-Flame Ionization Detector.** *The Pacific Journal of Science and Technology*, 14(2): 360-378.
- Inya agha S.I., Oguntimein, B.O., Sofowora, A. and Benjamin, T.V., 1987. **Phytochemical and antibacterial studies on the essential oil of *Eupatorium odoratum*.** *International Journal of Crude Drug Research*, 25: 49-52.
- Iqbal, H. and Lajber, K., 2010. **Comparitive study of heavy metals in *Taraxicum officinale*.** *International Journal of Pharmacognosy and phytochemical research*, 2(1): 15-18.
- Irobi, O.N., 1997. **Antibiotic properties of ethanol extract of *Chromolaena odorata* (Asteriaceae).** *International Journal of Pharmacognosy*, 35(2): 111-115.
- Isah, T., 2019. **De novo *in vitro* shoot morphogenesis from shoot tip-induced callus cultures of *Gymnema sylvestre* (Retz.) R.Br. ex Sm.** *Biol Res.*, 52(3): 1-8.
- Ishwarya, M., Gayathri, M., Mannangatti, E., Govindhan, K., Uthaya, P., Sethu, T. and Sethuraman, R., 2018. **An efficient micropropagation of *Achyranthes aspera* l. using shoot tip explant.** *Int. J. Curr. Res. Biosci. Plant Biol.*, 5(2): 76-84.
- Iwu, M.M., 1993. **Handbook of Africa Medicinal Plants, CRC Press Inc., Boca Raton.**, 181-182.

- Iyeswarya, M. B., Manigundan, K., Usha, J., Suganya, P. and Devi Priya, A.S., 2013. **Phytochemical study of methanolic leaf extract of *Eupatorium glandulosum* L.** *Bio.Med.Rx*, 1(4): 406-409.
- Jagetia, G.C. and Rao, M.S., 2006. **Evaluation of the antineoplastic activity of guduchi (*Tinospora cordifolia*) in cultured HeLa cells.** *Cancer Lett.*, 127: 71-82.
- Jaime, A.T.S., Andrea, G., Katalin, M.T., Min, R.W., Qiao, C.W. and Judit, D., 2019. **In vitro tissue culture of apple and other *Malus* species: recent advances and applications.** *Planta*, 4: 975-1006.
- Jain, C., Khatana, S. and Vijayvergia, R., 2019. **Bioactivity of secondary metabolites of various plants: A review.** *IJPSR*, 10(2): 494-504.
- Jaripa, B.M.D., Nazrul, I.B. and Tarannum, T., 2010. **Chemical composition and antimicrobial activity of essential oil from *Eupatorium triplinerve* Vahl. aerial parts.** *Asian Jr. of Microbiol. Biotech. Env. Sci.*, 12(3): 543-547.
- Jena, P.K. and Chakraborty, A.K., 2010. **Evaluation of analgesic activity studies of various extracts of leaves of *Eupatorium odoratum* Linn.** *International Journal of Pharmacy&Technology*, 2(3): 612-616.
- Jie, Z., Yuping, Z., Jiayu, B. and Haishui, Z., 2003. **RAPD analysis of genetic variation in natural populations of *Betula alnoides* from Guangxi, China.** *Euphytica*, 134: 33-41.
- Johnson, M., Wesely, E.G, Zahair Hussain, M.I and Selvan, N., 2010. **In vivo and in vitro phytochemical and antibacterial efficacy of *Baliospermum montanum* (Willd). Muell. Arg.** *Asian pacif. J. Tropi. Medi.*, 894-897.
- Joshi, M. and Dhar, U., 2003. **In vitro propagation of *Saussurea obvallata* (DC.) Edgew.-an endangered ethno religious medicinal herb of Himalaya.** *Plant Cell Reports*, 21(10): 933-939.
- Joshi, R., Meena, R. and Patni, V., 2018. **Comparative phytochemical analysis of bioactive constituents present in in vitro and in vivo plant parts of *Merremia aegyptia* and *Merremia dissecta*.** *Journal of Pharmacognosy and Phytochemistry*, 7(1): 679-684.
- Kabir, A.H., Sarker, K.K., Sharmin, S.A., Islam, M.S. and Alam, M.F., 2008. **Callus induction and plantlet regeneration in *Abelmoschus***

- esculentus* (L.) Moench. *Journal of Agricultural Technology*, 4(1): 193-204.
- Kakarla L., Othayoth, R. and Botlagunta, M., 2016. **Comparative Biochemical Studies on Indian Sedges *Cyperus scariosus* R.Br and *Cyperus rotundus* L.** *Pharmacognosy Journal*, 8(6): 598-609.
- Kaladhar, D.S.V.G.K., Poonam, T. and Santosh, K.D., 2017. **A Rapid *in vitro* micro propagation of *Bambusa vulgaris* using inter- node explant.** *Int. J. Life. Sci. Scienti. Res.*, 3(3): 1052-1054.
- Kalimuthu, K. and Prabakaran, R., 2014. ***In vitro* and micropropagation for conservation of rare and threatened medicinal plant *Ceropegia* sps - A Review.** *Int. J. Biological Technology*, 42(2): 23-36.
- Karim, M.Z., Amin, M.N., Asaduzzaman, I.S., Hossin, F. and Alam, R., 2002. **Rapid multiplication of *Chrysanthemum morifolium* through *in vitro* Culture.** *Pakistan J Biol Sci.*, 5: 1170-1172.
- Karp, A., Edwards, K., Bruford, M., Vosman, B., Morgante, M., Seberg, O., Kremer, A., Boursot, P., Arctander, P., Tautz, D. and Hewitt, G., 1997. **Newer molecular technologies for biodiversity evaluation: Opportunities and challenges.** *Nature Biotechnol.*, 15: 625-628.
- Karthika, C. and Manivannan, S., 2018. **Pharmacognostic, physicochemical analysis and phytochemical screening of the leaves of *W. trilobata* L.** *International Journal of ChemTech Research*, 11(2): 124-131.
- Karuppusamy, S., Kiranmai, C., Aruna, V. and Pullaiah, T., 2006., **Micropropagation of *Vanasushava pedata* - An endangered medicinal plant of south india., bangladesh journals online.** *Plant Tissue Cult. & Biotech.*, 16(2): 85-94.
- Kasahara, S. and Hemini, S., 1998. **Medicinal herb index in Indonesia, Bogor, Indonesia.** *P.T. Eisai Indonesia*, 1-2.
- Katiyar, S.K., Agarwal, R. and Mukhtar H., 1996. **Inhibition of tumor promotion in SENCAR mouse skin by ethanol extract of *Zingiber officinale* rhizome.** *Cancer Research*, 56(5): 1023-1027.
- Katiyar, C., Gupta, A., Kanjilal, S. and Katiyar, S., 2012. **Drug discovery from plant sources: An integrated approach.** *Ayurveda*, 33(1): 10-19.
- Kavi, G., Raghunandan, S.N., Deepika, A. and Vidya, P., 2012. **GC-MS analysis and identification of daidzein by High Performance Thin Layer Chromatography (HPTLC) of *Pluchea lanceolata* - a bone**

healing plant of semi-arid land. *Journal of Pharmacy Research*, 5(1): 257-260.

Kaviani, B., Ahmadi Hesar, A. and Kharabian Masouleh, A., 2011. ***In vitro* propagation of *Matthiola incana* (Brassicaceae)-an ornamental plant.** *Plant Omics J.*, 4(7): 435-440.

Kasinski, A.L., Kelnar, K., Stahlhut, C., Orellana, E., Zhao, J., Shimer, E., Dysart, S., Chen, X., Bader, A.G. and Slack, F.J., 2015. **A combinatorial microRNA therapeutics approach to suppressing non-small cell lung cancer.** *Oncogene.*, 34(27): 3547-3555.

Kayalvizhi, M. and Richa, S., 2014. **Qualitative and quantitative analysis of *Nyctanthes arbortristis* Linn leaf extracts by HPTLC.** *Phcog J*, 6(3): 117- 132.

Keresa, S., Mihovilovic, A., Baric, M., Zidovec, V. and Skelin, M., 2012. **The micropropagation of *Chrysanthemums* via axillary shoot proliferation and highly efficient plant regeneration by somatic embryogenesis.** *African Journal of Biotechnology*, 11(22): 6027-6033.

Khan, P.S.S., Hausman, J.F. and Rao, K.R., 1998. **Clonal multiplication of *Syzygium alternifolium* (wight.) through mature nodal segments.** *Silvae Genetica*, 48: 45-49.

Khan, S.V., Hausman, J.F. and Rao, K.R., 1999. ***In vitro* morphogenesis and plantlet regeneration from seeds of *Syzygium Alternifolium*.** *Biologia Plantarum*, 42(2): 177-184.

Khanna, V. and Kannabiran, K., 2009. **Anticancer-cytotoxic activity of saponins isolated from the leaves of *Gymnema sylvestre* and *Eclipta prostrata* on HeLa cells.** *Int J Green Pharm.*, 3: 227-229.

Kharrazi, M., Nemati, H., Tehranifar, A., Bagheri, A. and Sharifi, A., 2011. ***In vitro* culture of carnation (*Dianthus caryophyllus* L.) focusing on the problem of vitrification.** *Journal of Biological and Environment Sciences*, 5(13): 1-6.

Khayri, J.M. and Naik, P.M., 2017. **Date palm micropropagation: Advances and applications.** *Cienc. Agrotec.*, 41(4): 347-358.

Kinghorn, A.D. and Balandrin, M.F., 1993. **Human medicinal agents from plants, ACS symposium.** *Americal chemical society*, Washington DC.

Kiranmayi, G., Ramakrishnan, G., Kothai, R. and Jaykar, B., 2011. ***In-vitro* anti-cancer activity of methanolic extract of leaves of *Argemone***

- mexicana* Linn. *International Journal of PharmTech Research*, 3(3): 1329-1333.
- Kohn, L.K., Pizao, P.E., Foglio, M.A., Antonio, M.A., Amaral, M.C.E. and Bittric, V., 2006. **Antiproliferative activity of crude extract and fractions obtained from *Aspido-sperma tomentosum* Mart.** *Rev Bras Pl Med Botucatu.*, 8: 110-115.
- Kokate, C.K., Purohit, A.P. and Gokhale, S.B., 2005. **Pharmacognosy.** Narali Prakashnan.
- Kokate, C.K., Purohit, A.P. and Gokhale, S.B., 2009. **Pharmacognosy,** Narali Prakashnan.
- Krishnareddy, P.V and Pullaiah, T., 2012. ***In vitro* conservation of *Ceropegia elegans*, an endemic plant of South India.** *African Journal of Biotechnology*, 11(61): 12443-12449.
- Kritikar, K.R., and Basu, B.D., 1987. *Indian Medicinal Plants*, Derhadun, India, 3, 1331-1333.
- Kuete, V., 2017. **Medicinal spices and vegetables from Africa.** *Academic press- An imprint of Elsevier*, 181-183.
- Kumar, S., 2002. **The medicinal plants of North-East India.** *Scientific Publishers (India)*, 88-90.
- Kumar, A., Aggarwal, D., Gupta, P. And Reddy, M.S., 2010. **Factors affecting *in vitro* propagation and field establishment of *Chlorophytum borivilianum*.** *Biologia plantarum*, 54(4): 601-606.
- Kumar, R., Raj Kapoor, B. and Perumal, P., 2011. **Antitumor and cytotoxic activities of methanol extract of *Indigofera linnaei* Ali.** *Asian Pac. J. Cancer Prev.*, 12(3): 613-618.
- Kumar, O.A., Jyothirmayee, G. and Tata, S.S., 2011. ***In vitro* plant regeneration from leaf explants of *Withania somnifera* (L) Dunal (Ashwagandha) – an important medicinal plant.** *Research in Biotechnology*, 2(5): 34-39.
- Kumar, A., Mufida, F., Musadiq, H.B. and Ashok Kumar, J., 2018. **An efficient protocol for *in-vitro* regeneration of *Vitex negundo* an important medicinal plant.** *Biosci. Biotech. Res. Comm.*, 11(2): 256-262.

- Kumari, A., Baskaran, P. and Staden, J.V., 2017. ***In vitro* regeneration of *Begonia homonyma* - A threatened plant.** *South African Journal of Botany*, 109: 174-177.
- Kupchan, S.M. and Baxter, R.L., 1975. **Mezerein: anti leukemic principle isolated from *Daphne mezereum*.** *Life Science*, 187(4177): 652-657.
- Kurade, N.P., Vikas, J., Vijay, K.K. and Sharma, O.P., 2010. **Chemical composition and antibacterial activity of essential oils of *Lantana camara*, *Ageratum houstonianum* and *Eupatorium adenophorum*.** *Pharmaceutical Biology*, 48(5): 539-544.
- Kursat, K., Metin, K.S., Faruk, Q. and Volkan, G., 2010. **Monitoring of heavy metals and selected micronutrients in hempseeds from North-Western Turkey.** *African Journal of Agriculture research*, 5(6): 463-467.
- Kuznetsov, A.V. and Gnaiger, E., 2006. **Laboratory protocol Lactate dehydrogenase cytosolic marker enzyme, Mitochondrial physiology network**, 8.18:1-7.
- Laizuman, N., Ronok, Z., Ashik, M., Saiful, I., Anamul, H., Abul, F. and Mele, J., 2012. **Antioxidant and antitumor activity of chloroform extract of *Alangium salvifolium* flowers.** *Phytopharmacol.*, 2(1): 123-134.
- Lattoo, S.K., Bamotra, S., Sapru Dhar, R., Khan, S. and Dhar, A.K., 2006. **Rapid plant regeneration and analysis of genetic fidelity of *in vitro* derived plants of *Chlorophytum arundinaceum* Baker-an endangered medicinal herb.** *Plant Cell Reports*, 25(6): 499-506.
- Lauritano, H., Andersen, J.H., Hansen, E., Albrigtsen, M., Escalera, L. and Esposit, F., 2016. **Bioactivity screening of microalgae for antioxidant, anti-inflammatory, anticancer, anti-diabetes, and antibacterial activities.** *Front Mar Sci.*, 3: 68-73.
- Lee, K.J., Hwang, S.J., Choi, J.H. and Jeong, H.G., 2008. **Saponins derived from the roots of *Platycodon grandiflorum* inhibit HT-1080 cell invasion and MMPs activities: Regulation of NF- κ B activation via ROS signal pathway.** *Cancer Lett.*, 268(2): 233-243.
- Lee, J.H. and Pijut, P.M., 2017. **Adventitious shoot regeneration from *in vitro* leaf explants of *Fraxinus nigra*.** *Plant Cell, Tissue and Organ Culture*, 130(2): 335-343.
- Leon, I.E., Cadavid-Vargas, J.F., Tiscornia, I., Porro, V., Castelli, S. and Katkar, P., 2015. **Oxidovanadium(IV) complexes with chrysin and**

silibinin: anticancer activity and mechanisms of action in a human colon adenocarcinoma model. *J Biol Inorg Chem.*, 20: 1175-91.

Leslie, T., 2006. **Technical Data Report for Ayapana (*Ayapana triplinervis*)** 3579 Hwy 50 East, Suite 222, Carson City.

Li, Y.M., Li, Z.Y. and Ye, M., 2008. **The chemical compositions and their bioactivities in the different parts of *Eupatorium adenophorum* Spreng.** *J. Yunnan Agric. Univ.*, 23: 42-46.

Li, M., Wei, S.Y., Xu, B., Guo, W. and Liu, D.L., 2008. **Proapoptotic and microtubule-disassembly effects of ardisiacrispin (A+B), triterpenoid saponins from *Ardisia crenata* on human hepatoma Bel-7402 cells.** *J Asian Nat Prod Res.*, 10: 729-736.

Li, W.Y., Chan, S.W., Guo, D.J., Chunga, M.K., Leung, T.Y. and Yua, P.H.F., 2009. **Water extract of *Rheum officinale* Baill. induces apoptosis in human lung adeno carcinoma A549 and human breast cancer MCF-7 cell lines.** *Journal of Ethnopharmacology*, 124: 251-256.

Lim, H.K., Moon, J.Y., Prakash, B., Kim, H. and Cho, S.K., 2006. **Induction of apoptosis in U937 human leukaemia cells by the hexane fraction of an extract of immature *Citrus grandis* Osbeck fruits.** *Food chemistry*, 114: 1245-1250.

Lim, Y. and Park, J.H., 2009. **Induction of p53 contributes to apoptosis of HCT-116 human colon cancer cells induced by the dietary compound fisetin.** *Am J Physiol Gastrointest Liver Physiol.*, 296: 1060-1068.

Lin, X., Peng, Z. and Su, C., 2015. **Potential anticancer activities and mechanisms of costunolide and dehydrocostuslactone.** *Int J Mol Sci.*, 16: 10888-10906.

Ling, S.K., Mazura, M.P. and Saliah, M., 2007. **Platelet activating factor (PAF) receptor-binding antagonist activity of the methanol extract from *Chromolaena odorata* (L.) King and Robin.** *Biol. Pharm. Bull.*, 30: 1150-1152.

Liu, R.H., 2004. **Potential synergy of phytochemicals in cancer prevention: mechanism of action.** *Nutr. J.*, 134: 3479-3485.

Liu, S., Zhang, J., Li, D., Liu, W., Luo, X., Zhang, R., Li, L. and Zhao, J., 2007. **Anticancer activity and quantitative analysis of flavone of *Cirsium japonicum* DC.** *Nat Prod Res.*, 21(10): 915-22.

- Lovkova, M.I., Sokolova, S.M., Buzuk, G.N., Bykhovskii, V.I., Ponomareva, S.M. and Prikl, B., 1999. **Features of the elemental composition of medicinal plants, synthesizing phenolic compounds.** *Prikl. Biokhim Mikrobiol.*, 35(5): 578-589.
- Lu, H.F., Chen, Y.S. and Yang, J.S., 2008. **Gypenosides induced G0/G1 arrest via inhibition of cyclin E and induction of apoptosis via activation of caspases-3 and -9 in human lung cancer A-549 cells.** *In vivo*, 22: 215- 21.
- Lukas, A.M., Christopher, D.G., Rebecca, A.S. and Virginia, W., 2000. **AN9-a petunia glutathione s-transferase required for anthocyanin sequestration, is a flavonoid binding protein.** *Plant Physiol.*, 123: 1561-1570.
- Mabberley, D.J., 1997. **Medicinal Plants.** *Oxford and IBH Publishing Co. Pvt. Ltd.*, NewDelhi.
- Madhavi, N.V.S., Kumud, U. and Asha, B., 2011. *Int J Pharm Pharm Sci.*, 3:235-238.
- Madhubanti, B., Pralay, M. and Sujata, M.C., 2015. **Inhibition of Ehrlich's Ascites Carcinoma by the Leaf Extracts of *Eupatorium ayapana* in Swiss Albino Mice.** *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6(1): 1274-1282.
- Madhuri, S. and Pandey, G., 2008. **Some dietary agricultural plants with anticancer properties.** *Plant Archives*, 8: 13-16.
- Madhuri, S. and Pandey, G., 2009. **Some anticancer medicinal plants of foreign origin.** *Current Science*, 96(6): 779-784.
- Mahato, S. and Mehta, A., 2017. **TLC and HPTLC profiling and antibacterial effects of callus extracts of *Holarrhena antidysenterica* Wall.** *An International Journal of Plant Research*, 30-34.
- Mahendran, G. and Bai, V.N., 2009. **Mass propagation of *Satyrium nepalense* D.Don.-A medicinal orchid via seed culture.** *Scientia Horticulturae*, 119(2): 203-207.
- Mala, J.G.S., Zoghbi, M.G.B., da Silva, M.H.L. and Andrade, E.H.A., 1999. **Essential Oils of *Eupatorium triplinerve* Vahl and *E. paniculatum* Poepp et Endl.** *Journal of Essential Oil Research*, 11(5): 541-544.

- Malathy, S. and Pap, J.S., 1999. **Monitoring of forskolin production from roots and callus by HPTLC in *Coleus forskohlii* Briq.** *Journal of Spices and Aromatic Crops*, 8 (2): 153-157.
- Malik, M., Cuiwei, Z., Norberta, S.M., Monica, G., Mary, P.M. and Bernadene A.M., 2003. **Anthocyanin-Rich Extract from *Aronia meloncarpa* E. induces a cell cycle block in colon cancer but not normal colonic cells.** *Nutrition and Cancer*, 46(2): 186-196.
- Mamtha, A., 2011. **Quantitative HPTLC analysis of andrographolide in *Andrographis paniculata* obtained from different geographical sources (India).** *International Journal of Pharm. Sci.*, 3(2): 42-44.
- Mandal, S.K., Mandal, S.C., Das, A.K., Tag, H. and Sur, T., 1981. **Antipyretic activity of *Eupatorium adenophorum* leaf extract.** *Indian J. Nat. Prod.*, 21: 6-8.
- Mandal, S.K., Boominathan, R., Parimaladevi, B., Dewwanjee, S. and Mandal, S.C., 2005. **Analgesic activity of methanol extract of *Eupatorium adenophorum* Spreng. Leaves.** *Indian Journal of Exp.Biol.* 43: 662-663.
- Manimaran, S., Nithya, S. and Praveen, T.K., 2014. **Development and screening of topical herbal cream formulations for antimicrobial and wound healing activity.** *International Journal of Biological & Pharmaceutical Research*, 5(5): 383-388.
- Mans, D.R.A., Rocha, A.B. and Schwartzmann, G., 2000. **Anti-cancer drug discovery and development in Brazil: targeted plant collection as a rational strategy to acquire candidate anti-cancer compounds.** *The Oncologist*, 5: 185-198.
- Manu, K.A. and Kuttan, G., 2007. **Effect of punarnavine, an alkaloid from *Boerhaavia diffusa*, on cell-mediated immune responses and TIMP-1 in B16F-10 metastatic melanoma-bearing mice.** *Immunopharmacology and Immunotoxicology*, 29 (3-4): 569-586.
- Markovic, M., Mihailo, G.R.B.I.Ć. and Matilda, D.J.U.K.I., 2013. **Micropropagation of the Endangered and Decorative Species *Dianthus serotinus* Waldst. et Kit.** *Notulae Botanicae Horti Agrobotanica*, 41(2): 370-377.
- Martin, K.P., 2003. **Rapid axillary bud proliferation and *ex vitro* rooting of *Eupatorium triplinerve*.** *Biologia Plantarum*, 47: 589-591.

- Martins, M., Terneiro, R., Oliveira, M.M., 2003. **Genetic relatedness of Portuguese almond cultivars assessed by RAPD and ISSR markers.** *Plant Cell Report*, 22: 71-78.
- Mary, S.B. and Divakar K.M., 2016. **In vitro propagation of *Dendrobium jerdonianum* wight through flower stalk, leaf, nodes/ internodes as explants.** *American Journal of Life Sciences*, 4(3): 76-81.
- Mathew, G., Lincy, J. and Ansa, T., 2016. **Analesgic activity of hydro alcoholic extracts of stems and roots of *Eupatorium triplinerve* Vahl.** *International Journal of Universal Pharmacy and Bio Sciences*, 5(4): 118-124.
- Meena, M.K., Singh N. and Patni, V., 2012. **In vitro multiple shoot induction through axillary bud of *Cocculus hirsutus* (L.) Diels: A threatened medicinal plant.** *Afric. J. of Biotechnol.*, 11(12): 2952-2956.
- Meenashree, B., Kathiravan, G., Srinivasan, K. and Rajangam, B. 2017. **Effect of plant hormones and media composition on browning and growth of *Bacopa monnieri* callus cultures.** *Research Journal of Pharmacy and Technology*, 10(2): 497-500.
- Melo, Luciana, Q., Ciampi, A.Y., Vieira, I. and Roberto, F., 2009. **Genetic variability analysis of arnica (*Lychnophora ericoides* Less. - Asteraceae) using RAPD markers.** *Acta Bot. Bras. [online]*, 23(1): 259-266.
- Melo, A.S., Monteiro, M.C. and Silva, J.B., 2013. **Antinociceptive, neurobehavioral and antioxidant effects of *Eupatorium triplinerve* Vahl on rats.** *J Ethnopharmacol.*, 147: 293-301.
- Mena, R.G., Caamal, F.E., Cantillo, C.Z., Cedillo, R.R., Flores, G.J. and Moo, P.R., 2009. **In vitro cytotoxic activity of nine plants used in Mayan traditional medicine.** *Journal of Ethnopharmacology*, 121: 462-465.
- Menonve, A., Latifou, L., Bernard, G., Jean, M.S., Minjie, Z., Alain, V.D., Eric, M., Gilles, P., Youssef, H., Corinne, T., Ambaliou, S. and Helene, M.B., 2013. **Isolation and identification of two antibacterial agents from *Chromolaena odorata* L. active against four diarrheal strains.** *Advances in Microbiology*, 4(3): 115-121.
- Merina, N., Chandraa, K.J. and Jibon, K., 2012. **Medicinal plants with potential anticancer activities: A review.** *International research journal of pharmacy*, 3(6): 26-31.

- Meenu, S., Aakansha, S. and Sandeep, T., 2011. **Quantitative HPLC analysis of Andrographolide in *Andrographis paniculata* at two different stages of life cycle of plant.** *Acta Chimica & Pharmaceutica Indica*, 2(1): 1-7.
- Metwally, A.M. and Ekejuba, E.C., 1981. **Methoxylated flavonols and flavones from *Eupatorium odoratum*.** *Planta Medica*, 42: 403-416.
- Michael, Z.S., Eran Ben, A. and Bashar, S., 2012. **Greco-Arab and Islamic herbal-derived anticancer modalities: from tradition to molecular mechanisms.** *Evidence-Based complementary and Alternative Medicine*, 13-19.
- Moghadam, J.E., Mohsen, M. and Arash, F., 2016. **Genetic variation of some hawthorn species based on phenotypic characteristics and RAPD marker.** *Biotechnology and Biotechnological equipment*, 30(2): 247-253.
- Mohammed, F., Naseem, A. and Mohammad, A., 2007. **An efficient micropropagation system for *Tylophora indica*: an endangered, medicinally important plant.** *Plant Biotechnology Reports*, 1(3): 155-161.
- Molassiotis, A., Panteli, V., Patiraki, E., Ozden, G., Platin, N., Madsen, E., Browall, M., Fernandez-Ortega, P., Pud, D. and Margulies, A., 2006. **Complementary and alternative medicine use in lung cancer patients in eight European countries.** *Complementary Therapies in Clinical Practice*, 12: 34-39.
- Momin, R.K. and Kadam, V.B., 2011. **Determination of ash values of some medicinal plants of genus *sesbania* of marathwada region in Maharashtra.** *Journal of Phytology*, 3(12): 52-54.
- Moody, J.O., Adebisi, O.A. and Adeniyi, B.A., 2004. **Do *Aloe vera* and *Ageratum conyzoides* enhance the anti-microbial activity of traditional medicinal soft soaps (Osedudu).** *J. Ethnopharmacol.*, 92: 57-60.
- Moon, B.C., Choo, B.K., Cheon, M.S., Yoon, T., Ji, Y., Kim, B.B., Lee, A.Y. and Kim, H.K., 2010. **Rapid molecular authentication of three medicinal plant species, *Cynanchum wilfordii*, *Cynanchum auriculatum*, and *Polygonum multiflorum* (*Fallopia multiflorum*), by the development of RAPD-derived SCAR markers and multiplex-PCR.** *Plant Biotechnol Rep.*, 4: 1-7.

- Moreki, J.C., 2013. **Documentation of ethnoveterinary practices used in family poultry in Botswana.** *Veterinary World*, 6(1): 18-21.
- Moridani, M.Y., Pourahmad, J., Bui, H., Siraki, A. and Brien, P.J., 2003. **Dietary flavonoid iron complexes as cytoprotective superoxide radical scavengers.** *Free Radic. Biol. Med*, 34: 243 – 253.
- Morlock, G. and Schwack, W., 2006. **Determination of isopropyl thioxanthone (ITX) in milk, yoghurt and fat by HPTLC-FLD, HPTLC-ESI/MS and HPTLC-DART/MS.** *Anal. Bioanal. Chem.*, 385: 586-595.
- Moses, O.S., Akintayo, O. and Kamil, O., 2010. **Chemical Composition and Bioactivity of the Essential Oil of *Chromolaena odorata* from Nigeria.** *Rec. Nat. Prod.*, 4(1): 72-78.
- Motta, F.C.M., Santos, D.Y.A.C., Salatino, M.L.F., Almeida, J.M.D., Negri, G., Carvalho, J.E., 2011. **Constituents and antiproliferative activity of extracts from leaves of *Croton macrobothrys*.** *Rev Bras Farmacogn.*, 21: 972-977.
- Moura, A.C.A., Silva, E.L.F., Fraga, M.C.A., Wanderley, A.G., Afiatpour, P. and Maia, M.B.S., 2005. **Antiinflammatory and chronic toxicity study of the leaves of *Ageratum conyzoides* in rats.** *Phytomed.*, 12(1-2): 138-192.
- Mqoqi, N., Kellett, P., Sitas, F. and Jula, M., 2004. **Incidence of histologically Diagnosed cancer in South africa, 1998 – 1999.** *The National Cancer Registry of South Africa, National Health Laboratory Service, Johannesburg.*
- Mudoj, K.D., Saikia, S.P. and Borthakur, M., 2014. **Effect of nodal positions, seasonal variations, shoot clump and growth regulators on micropropagation of commercially important bamboo, *Bambusa nutans* Wall. Ex. Munro.** *African journal of biotechnology*, 13(19): 1961-1972.
- Mujab, F., Kamalinejad, M., Ghaderi, N. and Vahidipour, H., 2003. **Phytochemical screening of some Iranian plants.** *Iranian journal of pharmaceutical research*, 77-82.
- Mukherjee, P.K., Mukherjee, K., Hermans-Lokkerbol, A.C.J., Verpoorte, R. and Suresh, B., 2001. **Flavonoid content of *Eupatorium glandulosum* and *Coolebroke oppositifolia*.** *Journal of Natural Remedies*, 1(1): 21-24.

- Munmi, B., Bibhuti, B.K. and Lakhi, R.S., 2013. **Antimicrobial activity and phytochemical screening of some common weeds of asteraceae family.** *Int. J. Pharm. Sci. Rev. Res.*, 23(1): 116-120.
- Murashige, T. and Skooge, 1962. **A revised medium for rapid growth and bioassays with tobacco Tissue culture.** *Physiol.plant*, 15: 473-479.
- Murashige, T., 1974. **Plant propagation through tissue cultures.** *Annual Review of Plant Physiology*, 25: 135-166.
- Murganatham, N., Solomon, S. and Senthamilselvi, M.M., 2016. **Anticancer activity of *Cucurbita maxima* flowers (Pumpkin) against human liver cancer.** *International Journal of pharma sciences*, 6(1): 1356-1359.
- Muricken, D.G. and Joy, J., 2015. **Analysis of phytochemicals from *Eupatorium odoratum* flower.** *IJAPR*, 3(7): 47-53.
- Muriel, J.M., 2004. **Herbs or Natural Products That Decrease Cancer Growth.** *Oncology Nursing Forum*, 31(4): 75.
- Mustafa, M.R., Mahmood, A.A., Sidik, K. and Noor, S.M., 2005. **Evaluation of wound healing potential of *Ageratum conyzoides* leaf extract in combination with honey in rats as animal model.** *Int. J. Mole. Med. Adv. Sci.*, 1: 406-410.
- Muthukrishnan, S., Franklin Benjamin, J.H., Muthukumar, M., Ahamed sherif, N., Senthil kumar, T. and Rao, M.V., 2012. ***In vitro* propagation of *Ceropegia thwaitesii* Hook- an endemic species of Western Ghats of Tamil Nadu, India.** *African Journal of Biotechnology*, 1(59), 12277-12285.
- Muthusamy, G., Arunapriya, S., Guruchandar, A., Selvankumar, T., Gnanasekaran, N. and Manoharan, K., 2011. **Genetic variability among *Coleus* sp studied by RAPD banding pattern analysis.** *Nature proceedings*.
- Mythili, T. and Ravindhran, R., 2013. **Determination of Quercetin by HPTLC Method in *Sesbania sesban* (L.) Merr. stem extract.** *IJAPBC*, 2(1): 113-119.
- Nabin, B. and Geetha, S., 2009. **Antibacterial and antifungal effect of *Eupatorium adenophorum* Spreng against bacterial and fungal isolates.** *Nepal Journal of Science and Technology*, 10: 91-95.

- Nadeem, M., Palni, L.M.S., Purohit, A.N., Pandey, H. and Nandi, S.K., 2000. **Propagation and conservation of *Podophyllum hexandrum* Royle: an important medicinal herb.** *Biological Conservation*, 92(1): 121-129.
- Nagata, T., Win, N., Xiao Long, L., Miwa, T., Okumura, T., Fushimi, H., Morita, H. and Shimada, Y., 2016. **Anti-cancer effect of *Saxifraga stolonifera* Meerb.** *Journal of Clinical and Experimental Pharmacology*, 6(3): 1-6.
- Naing, A.H., Jeon, S.M., Han, J.S., Lim, S.H., Lim, K.B. and Kim, C.K., 2014. **Factors influencing *in vitro* shoot regeneration from leaf segments of *Chrysanthemum*.** *Comptes Rendus Biol.*, 37: 383-390.
- Nair, A.G.R. and Sivakumar, R., 1990. **6- hydroxykaempferol 7- (6''-caffeoylglucoside) from *Eupatorium glandulosum*.** *Phytochemistry*, 29: 1011-1014.
- Nair, G.R., Jayaprakasam, R., Gunasekaran, R., Bayet, C. and Voirin, B., 1993. *Phytochemistry*, 33: 1275-1278.
- Nair, S. and Varalakshmi, K.N., 2011. **Anticancer, cytotoxic potential of *Moringa oleifera* extracts on HeLa cell lines.** *Journal of Natural pharmaceuticals*, 2(3): 138-142.
- Najar, R.A., Fayaz, M., Bhat, M.H., Bashir, M., Kumar, A. and Jain, A.K., 2018. **An efficient micropropagation protocol for direct organogenesis from nodal explants of medicinal climber, *Tylophora indica*.** *Biosci. Biotech. Res. Comm.*, 11(1): 144-153.
- Nakasha, J.J., Sinniah, U.R., Kemat, N. and Kumara Swamy, M., 2016. **Induction, Subculture Cycle, and Regeneration of Callus in Safed Musli (*Chlorophytum borivilianum*) using Different Types of Phytohormones.** *Pharmacognosy Magazine*, 12(47): 460-464.
- Nargis, K. and Sharique, A.A., 2014. **Quantitative determination of Eugenol in aqueous extract of *Ocimum sanctum* by High Performance Thin Layer Chromatography.** *Journal of Pharmacy Research*, 8(8): 1158-1161.
- Narisa, K., Jenny, M.W. and Heather, M.A.C., 2006. **Cytotoxic effect of four Thai edible plants on mammalian cell proliferation.** *Thai Pharm Health Sci J.*, 1: 189-195.
- Nath, R., Roy, S., De, B. and Choudhury, M.D., 2013. **Anticancer and antioxidant activity of *Croton*: A review.** *Int J Pharm Pharma Sci.*, 5: 63-70.

- Nawab, A., Mohammad, Y., Abbas, A.M., Sanjay, G., 2011. **Evaluation of anticancer properties of medicinal plants from the Indian Sub-Continent.** *Mol Cell Pharmacol.*, 3(1): 21-29.
- Nayak, B.S., Debidani, M., Bhavani, S., Dheerendra, U., Ellaiah, P. and Ramakrishna, S., 2012. **Phytochemical investigation and screening of antibacterial activity of extracts from leaves of *Eupatorium odoratum* Linn.** *Asian Journal of Chemistry*, 24(5): 2036-2038.
- Naz, S., Muhammad, F.S. and Saboohi, R., 2018. **Effect of different growth regulators on *in vitro* propagation of *Brassica napus* L.** *Pakistan Journal of Botany*, 50(5):1871-1876.
- Ncube, N.S., Anthony, J.A. and Anthony, I.O., 2008. **Assessment techniques of antimicrobial properties of natural compounds of plant origin: Current Methods and Future Trends.** *African journal of biotechnology*, 7(12): 1797-1806.
- Neelam, S., Meena, M.K. and Vidya, P., 2017. **HPTLC method for isolation, identification and quantification of quercetin from *in vivo* and *in vitro* samples of *Naringi Crenulata*.** *Indian J. Pharm. Biol. Res.*, 5(3): 26-31.
- Neelambra, V., Koche, V., Tiwari, K.L. and Mishra, A.K., 2009. **RAPD analysis reveals genetic variation in different populations of *Trichodesma indicum* - A perennial medicinal herb.** *African Journal of Biotechnology*, 8(18): 4333-4338.
- Negi, A., Upadhyay, Amit, S. and Arun Kumar, W., 2010. **Pharmacognostical studies on the leaves of *Eupatorium adenophorum* Sprengs.** *Pharmacognosy*, 2(15): 01-08.
- Nishant, M., Shilpa, V., Dhamodaran, P. and Hemant, S., 2014. ***In-vitro* and *in-vivo* anticancer activity of leaf extract of *Barleria grandiflora*.** *International Journal of pharmacy and pharmaceutical sciences*, 6(3): 70-72.
- Nonga, X., Yong, J.R., Jia, H.W., Yue, X., Chun, L.F., De, Y.Y., Tian, F.L., Run, H.Z., Lin, C., Xiao, B.G., Xue, R.P., Shu, X.W., Song, J.L. and Guang, Y.Y., 2013. **Clinical efficacy of botanical extracts from *Eupatorium adenophorum* against the *Sarcoptes scabiei* (Sarcoptidae: Sarcoptes) in rabbits.** *Veterinary Parasitology*, 195: 157- 164.

- Nordine, A., Hmamouchi, M. and Meskaoui, A., 2014. ***In vitro* clonal propagation through direct shoot organogenesis of *Thymus broussonetii* – a vulnerable aromatic and medicinal Plant species.** *International journal of Pharmaceutical research and bio-science*, 3(1): 425-439.
- Norikura, T., Kojima, Y.A., Himizu, M., Haung, X., Xu, S. and Kametani, S., 2008. **Anti cancer activities and mechanisms of *Blumea balsamifera* extract in hepatocellular carcinoma cells.** *American J Chin Med.*, 36: 411-24.
- Nybom, H., 2004. **Comparison of different nuclear DNA markers for estimating intraspecific genetic diversity in plants.** *Molecular ecology*, 13(5): 1143-1155.
- Odugbemi, T., 2006. **Outlines and pictures of medicinal plants from Nigeria.** *University of Lagos Press*, Lagos, Nigeria, 1-8.
- Okwu, D.E., 2004. **Phytochemical and vitamin content of indigenous spices of South Eastern Nigeria.** *J., Agric. Environ.*, 6(1): 30-34.
- Oladejo, O.W., Imosemi, I.O. and Osuagwo, F.C., 2003. **A comparative study of the wound healing property of honey and *Ageratum conyzoides*.** *Afr. J. Med Sci.*, 32(2): 193-196.
- Omid, A.S., Forogh, M., Mahmoud, O., Ahmad, R.G. and Azadeh, M., 2013. **Direct regeneration of an endangered medicinal plant *Kelussia odoratissima*,** *International Journal of Agriculture and Crop Sciences*, 5(17): 1969-1974.
- Oseni, O.M., Pande, V. and Nailwal, T.K., 2018. **Review on plant tissue culture, a technique for propagation and conservation of endangered plant species.** *Int.J.Curr.Microbiol.App.Sci.*, 7(7): 3778-3786.
- Owoyele, V.B., Adediji, J.O. and Soladoye, A.O., 2005. **Antiinflammatory activity of aqueous leaf extracts of *Chromolaena odorata*.** *Inflammopharmacol.*, 13: 479-484.
- Ozdemir, F.A., Kocak, G. and Kursat, M., 2017. **Efficient callus formation and these callus antibacterial activities of a valuable medicinal plant *Stachys cretica* l. subsp. *garana* (BOISS) RECH.** *Progress in Nutrition*, 19(1): 92-96.

- Padalia, R.C., Bisht, D.S., Joshi, S.C. and Mathela, C.S., 2009. **Chemical Composition of the Essential Oil from *Eupatorium adenophorum* Spreng.** *Journal of Essential Oil Research*, 21(6): 522-524.
- Padalia, R.C., Ram S. Verma and Sundaresan, 2010. **Volatile constituents of three invasive weeds of himalayan region.** *Rec. Nat. Prod.*, 4(2): 109-114.
- Palaniselvam, K., Mashitah, M.Y., Gaanty, P.M., Solachuddin, J.A. Ilavenil, S. and Natana, M.G., 2014. **Nutraceuticals as potential therapeutic agents for colon cancer: a review.** *Acta Pharmaceutical Sinica B*, 4(3): 173-81.
- Pallavi, Y. and Hemalatha, K.P.J., 2018. **Phytochemical studies and High-performance thin-layer chromatography analysis of *Calamus rotang* Linn leaf extracts.** *Asian J Pharm Clin Res.*, 11(2): 269-275.
- Pan, S., Neeraj, A., Srivastava, K.S., Kishore, P. and Sarethy, I.P., 2013. **Effects of growth regulators on *in vitro* response and multiple shoot induction in some endangered medicinal plants.** *OA Biotechnology*, 2(1): 3-7.
- Panda, P. and Ghosh, A., 2010. **Formulation and evaluation of topical dosage form of *Eupatorium odoratum* Linn, and their wound healing activity.** *Int. J. Pharm. Biol. Sci.*, 1: 1-13.
- Pankaj, K.J., Mohan, L.S., Hardik, P. and Virendra, K.G., 2007. **Analysis of genetic variation in different banana (*Musa* species) variety using random amplified polymorphic DNAs (RAPDs).** *African Journal of Biotechnology*, 6(17): 1987-1989.
- Panwar, G.S. and Guru, S.K., 2011. **Alkaloid Profiling and Estimation of Reserpine in *Rauwolfia serpentina* Plant by TLC, HP-TLC and HPLC.** *Asian Journal of Plant Sciences*, 10(8): 393-400.
- Parimala, K., Binoy, V.C. and Viswanathan, S., 2012. **Antinociceptive and anti-inflammatory activity of petroleum ether extract of *Eupatorium triplinerve* Vahl.** *Pharmaceutical Science*, 12-19.
- Park B.S., Lee, K.G., Shibamoto, T., Lee, S.E. and Takeoka, G.R., 2003. **Antioxidant activity and characterization of volatile constituents of Taheebo (*Tabebuia impetiginosa* Martius ex DC).** *Journal of agricultural and food chemistry*, 51: 295-300.
- Park, J. and Conteas, C.N., 2010. **Anti-carcinogenic properties of curcumin on colorectal cancer.** *World J Gastrointest Oncol.*, 2(4): 169-176.

- Patel, J., Kumar, G.S., Shamim Qureshi, M.D. and Jena, P.K., 2010. **Anthelmintic activity of Ethanolic extract of whole plant of *Eupatorium Odoratum* L.** *International Journal of Phytomedicine*, 2: 127-132.
- Patel, K.G., Patel, V.G., Patel, K.V. and Gandhi, T.R., 2010. **Validated HPTLC Method for Quantitative Determination of Gallic Acid in Stem Bark of *Myrica esculenta* Buch.-Ham. Ex D. Don, Myricaceae.** *JAOAC Int.*, 93: 1422-1427.
- Patel, I.C., 2015. **HPTLC method for studies of phytochemicals from *in vivo* and *in vitro* developed plants of *Pterocarpus marsupium* (Roxb.).** *Clin Exp Pharmacol.*, 5(4): 1-5.
- Patel, Ranbir, S., Fougat, Sushil Kumar, Jigar, G., Mistry and Mukesh Kumar, 2015. **Detection of genetic variation in *Ocimum* species using RAPD and ISSR markers.** *Biotech.*, 5: 697-707.
- Patel, A.R., Kalpesh, B. and Ishnava, 2015. ***In vitro* shoot multiplication from nodal explants of *Coccinia grandis* (L.) Voigt. and its antidiabetic and antioxidant activity.** *Asian Journal of Biological Sciences*, 8: 57-71.
- Patil, J., Jayaprakasha, G., Chidambara Murthy, K., Tichy, S., Chetti, M. and Patil, B., 2008. **Apoptosis-mediated proliferation inhibition of human colon cancer cells by volatile principles of *Citrus aurantifolia*.** *Food Chem.*, 114: 1351-1358.
- Patnaik, J. and Debata, B.K., 1996. **Micropropagation of *Hemidesmus indicus* through axillary bud culture.** *Plant Cell Reports*, 15: 427-430.
- Paul, P.J., Perez-Alonso, M.J., Velasco-Negueruela, A. and Sanz, J., 2002: **Spectrometry of the volatile components of *Ageratina adenophora* Spreng, growing in the Canary Islands.** *J. Chromatogr.*, A947: 327-331.
- Paul, A., Akhil, V. and Sona S Dev, 2015. **Assessment of Genetic Diversity between and within Populations of *Coleus* sp using RAPD Marker.** *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6 (2): 623- 628.
- Peris, M., Mico, C., Recatala, L., Sanchez, R. and Sanchez, J., 2007. **Heavy metal contents in horticultural crops of a representative area of the European Mediterranean region.** *Science of the total environment*, 378: 42-48.

- Perwez, A., Mohammad Parvez, K., Ahmed Arbab, H. and Mohammed Al-Dosari, S., 2017. **Quantitative analysis of rutin, quercetin, naringenin, and gallic acid by validated RP- and NP-HPTLC methods for quality control of anti-HBV active extract of *Guiera senegalensis*.** *Pharmaceutical Biology*, 55(1): 1317-1323.
- Petrova, M., Zayova, E. and Vitkova, A., 2011. **Effect of silver nitrate on in vitro root formation of *Gentiana lutea*.** *ACRomanian Biotechnological Letters*, 16(6): 53-58.
- Phan, T.T., Allen, J., Hughes, M, A., Cherry, G. and Wojnarowska, F., 2000. **Upregulation of adhesion complex proteins and fibronectin by human keratinocyte treated with an aqueous extract from leaves of *Chromolaena odorata*.** *Eur. J. Dermatol.*, 10: 522-527.
- Phan, T.T., Wang, L. and See, P., 2001. **Phenolic compounds of *Chromolaena odorata* protect cultured skin cells from oxidative damage: implication for cutaneous wound healing.** *Biol. Pharm. Bull*, 24: 1373-1379.
- Philip, C.W., John Hubstenberger, F. and Gregory Phillips, C., 1990. **Micropropagation of members of the Cactaceae.** *J.American society for horticultural science*, 115(2): 337-343.
- Pietta, P.G., 2000. **Flavonoids as Antioxidants.** *J. Nat. Prod.*, 63:1035-1042.
- Pisutthanan, N., Liawruangrath, S., Bremner, B.J. and Liawruangrath, B., 2005. **Chemical constituents and biological activities of *Chromolaena odorata*.** *Chiang Mai. J. Sci.*, 32: 139-148.
- Prabhudutta, P. and Arpita, G., 2010. **Formulation and evaluation of topical dosage form of *Eupatorium odoratum* Linn. and their wound healing activity.** *International Journal of Pharma and Bio Sciences*, 1(2): 01-13.
- Pradeep, K., Kotra, V., Priyadarshini, R.L. and Pratap, V., 2015. **Synthesis, characterization and anti inflammatory activity of novel quinoxaline derived chalcones.** *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(1): 243-246.
- Prakash, S., Elangomathavan, R.E., Seshadri, S., Kathiravan, K. and Ignacimuthu, S., 2004. **Efficient regeneration of *Curcuma amada* Roxb. plantlets from rhizome and leaf sheath explants.** *Plant Cell Tissue Org Cult.*, 78: 159-165.

- Prasad, M.P., 2014. **Molecular characterization and genetic diversity determination of *Hibiscus* species using RAPD molecular markers.** *Asian Journal of Plant Science and Research*, 4(3): 50-56.
- Prasad, K.N., Prasad, M.S., Shivamurthy, G.R. and Aradhya, S.M., 2006. **Callus induction from *Ipomea aquatica* Forsk. leaf and its antioxidant activity.** *Indian journal of Biotechnology*, 5: 107-111.
- Prashant, A., Chandini, R., Anshu, K.Y., Varun, R., Sowmya, M.N. and Subbarao M., 2017. ***In vitro* anticancer activity of ethanolic extracts of *Piper nigrum* against colorectal carcinoma cell lines.** *International Journal of Applied and Basic Medical Research*, 7(1): 67-72.
- Pratibha, C. and Abhay, C., 2013. **Enhancement of antioxidant compound in *Tylophora indica* (Asclepeadaceae) callus.** *Advances in Applied Science Research*, 4(2): 325-330.
- Pratima, T., Sonal, D. and Gabhe, S.Y., 2014. **Isolation of Quercetin-3-O- β -D-Glucoside from *Azadirachta indica*.** *American Journal of Phytomedicine and Clinical Therapeutics*, 2(7): 870-876.
- Prema, R., Sekar, S.D. and Chandra Sekhar, K.B., 2011. **Review On: Herbs As Anticancer Agents.** *Int. J. Pharma & Ind. Res.*, 1: 105.
- Puranik, M., Bhawsar, D.V., Rathi, P. and Yeole, P.G., 2010. **Simultaneous determination of ofloxacin and ornidazole in solid dosage form by RP-HPLC and HPTLC techniques.** *Indian J Pharm Sci.*, 72: 513-517.
- Purohit, S. D., Ashish, D., Gotam, K., 1994. **Micropropagation of safed musli (*Chlorophytum borivilianum*), a rare Indian medicinal herb.** *Plant Cell, Tissue and Organ Culture*, 39 (1): 93-96.
- Rabi, T., Karunagaran, D., Nair, M.K. and Bhattathiri, V.N., 2002. **Cytotoxic activity of amooranin and its derivatives.** *Phytother Res.*, 16(S1): 84-6.
- Rahman, Z.A., Noor, E.S.M., Ali, M.S.M., Mirad, R. and Othman, A.N., 2015. ***In Vitro* Micropropagation of a Valuable Medicinal Plant, *Plectranthus amboinicus*.** *American Journal of Plant Sciences*, 6: 1091-1097.
- Rai, L.K. and Sharma, E., 1994. **Medicinal Plants of Sikkim Himalaya,** Bishan Singh & Mahendra Pal Singh Publication, Dehradun, India, 39.
- Rajaram, K., Sriramji, P. and Sureshkumar, P., 2015. **Micropropagation, antioxidant and antimicrobial effect of *Plectranthus bourneae***

gamble: an endangered medicinal plant. *Journal of Chemical and Pharmaceutical Sciences*, 8(1): 142-147.

Rajeswary, M. and Govindarajan, M., 2013. **Mosquito larvicidal and phytochemical properties of *Ageratina adenophora* (Asteraceae) against three important mosquitoes.** *J. Vector. Borne Dis.*, 50: 141-143.

Rajkumar, V., Guha, G., Kumar, A.R. and Mathew, L., 2009. **Evaluation of cytotoxic potential of *Acorus calamus* rhizome.** *Ethnobotanical Leaflets*, 13: 832-839.

Rakashanda, S., Mubashir, S., Qureshi, Y., Hamid, A., Masood, A. and Amin, S., 2013. **Trypsin inhibitors from *Lavatera cashmeriana* camb. seeds: isolation, characterization and *in-vitro* cytoxic activity.** *Int J Pharm Sci Invent.*, 2: 55-65.

Rakesh, S.U., Patil, P.R., Salunkhe, V.R., Dhabale, P.N. and Burade, K.B., 2009. **HPTLC method for quantitative determination of Quercetin in hydroalcoholic extract of dried flower of *Nymphaea stellata* Willd.** *International Journal of ChemTech Research*, 1(4): 931-936.

Ralte, V. and Lallianrawna, S., 2014. ***In vitro* antioxidant activity of *Ageratina adenophora* (King & Rob) and *Ipomoea cairica* (L) Sweet.** *Science Vision*, 14(3): 128-132.

Ramachandra, R.S. and Ravishankar, G., 2002. **Plant cell cultures: Chemical factories of secondary metabolites.** *Biotechnology Advances*, 20(2): 101-53.

Ramasamy, K. and Agarwal, R., 2008. **Multitargeted therapy of cancer by silymarin.** *Cancer Lett.*, 269(2): 352-62.

Raveendran, V.V., Vijayan, F.P. and Padikkala, J., 2012. **Antitumor Activities of an Anthraquinone Fraction Isolated from *in vitro* Cultures of *Ophiorrhiza rugosa* var *decumbens*.** *Integr Cancer Therapy*, 12(2): 120-128.

Reiko, T., Yoshitaka, K., Shunichi, W. and Harukuni, T., 2004. **Potential anti-tumor promoting activity of lupane-type triterpenoids from the stem bark of *Glochidion zeylanicum* and *Phyllanthus flexuosus*.** *Planta Med.*, 70(12): 1234-1236.

Richardson, M.A., Ramirez, T., Russell, N.C. and Moye, L.A., 1999. **Coley toxins immunotherapy: a retrospective review.** *Altern Ther Health Med.*, 5(3): 42-47.

- Ronok, Z., Badrul, A.M., Saiful, I.M., Gopal, S.C., Nargis, C.S., Salman, H.B., Mosaddik, M.A., Mele, J. and Ekramul, H.M., 2011. **Anticancer activity of *Alangium salvifolium* flower in Ehrlich ascites carcinoma bearing mice.** *J Cancer Res.*, 7(3): 254-62.
- Rowshanul, H.M. and Rezaul, K.M., 2009. **Antimicrobial and cytotoxic activity of di-(2-ethylhexyl) phthalate and anhydrosophoradiol- 3-acetate isolated from *Calotropis gigantea* (Linn.) Flower.** *Mycobiology*, 37(1): 31-36.
- Roy, A., Shruti, A. and Navneeta, B., A., 2017. **Review on medicinal plants against cancer.** *Journal of Plant Sciences and Agricultural Research*, 2(1):1-8.
- Ruch, S.J. and Cheng, J.E., 1989. **Prevention of cytotoxicity and inhibition of intracellular communication by antioxidant catechins isolated from Chinese green tea.** *Carcinogenesis*, 10: 1003-1010.
- Rubaye, A.F.A., Imad, H.H. and Mohanad, J.K., 2017. **A Review: uses of Gas Chromatography-Mass Spectrometry (GC-MS) technique for analysis of bioactive natural compounds of some plants.** *International Journal of Toxicological and Pharmacological Research*, 9(1): 81-85.
- Rukhama, H., Shagufta, N., Farah, A. and Farkhanda, M., 2013. **Comparison of in vitro response of micropropagation and callogenesis of medicinal plant, *Vinca rosea* L.** *J. Agric. Res.*, 51(1): 9-17.
- Runchana, R. and Wannee, J., 2017. **Pea, *Pisum sativum*, and its anticancer activity.** *Pharmacog Rev.*, 11(21): 39-42.
- Russo, A., Piovano, M., Clericuzio, M., Lombardo, L., Tabasso, S., Chamy, M.C., Vidari, G., Cardile, V., Vita-Finzi, P. and Garbarino, J.A. 2006. **Putrescine-1,4-dicinnamide from *Pholiota spumosa* (Basidiomycetes) inhibits cell growth of human prostate cancer cells.** *Phytomed.*, 14(2-3): 185-91.
- Sadia, S., Khalid, S., Qureshi, R. and Bajwa, A.A., 2013. ***Tagetes minuta* L., A useful underutilized plant of family Asteraceae: A review.** *Pak J Weed Sci Res.*, 19: 179-189.
- Saeed, W., Naseem, S., Gohar, D. and Ali, Z., 2019. **Efficient and reproducible somatic embryogenesis and micropropagation in tomato via novel structures - Rhizoid Tubers.** *Plos One*, 14(5): 1-24.

- Saewan, N., Koysomboon, S. and Chantrapromma, K., 2011. **Anti-tyrosinase and anti- cancer activities of flavonoids from *Blumea balsamifera* DC.** *J Med Plants Res.*, 5: 1018-1025.
- Saha, J., Prabir, K.S. and Subrata, C., 2011. **A survey of ethnomedicinal plants of Darjeeling hills for their antimicrobial and antioxidant activities.** *Indian Journal of Natural Products and Resources*, 2(4): 479-492.
- Sajeeth, C.I., Manna, P.K., Manavalan, R. and Jolly, C.I., 2010. **Quantitative estimation of gallic acid, rutin and quercetin in certain herbal plants by HPTLC method.** *Der Chemica Sinica*, 1(2): 80-85.
- Sakarkar, D.M. and Deshmukh, V.N., 2011. **Ethnopharmacological review of traditional medicinal plants for anti-cancer activity.** *Int J Pharm Technol Res.*, 3: 298-308.
- Saleem, M., Hushum, M., Harkonen, P. and Pihlaja, K., 2002. **Inhibition of cancer cell growth by crude extract and phenolics of *Terminalia chebula* fruit.** *Journal of Ethno pharmacology*, 81: 327-336.
- Sambrook, J. and Russell, D.W., 2001. **Molecular Cloning a Laboratory Manual.** Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
- Samsudeen, K., Babu, K.N., Divakaran, M. and Ravindran, P.N., 2000. **Plant regeneration from anther derived callus cultures of ginger (*Zingiber officinale* Rosc.).** *J Hortic Sci Biotech.*, 75: 447-450.
- Samuel, L., Muthukumaran, R., Vanlalhruii Ralte, Gurusubramanian, G. and Senthil Kumar, N., 2013. **Determination of total phenolic content, total flavonoid content and total antioxidant capacity of *Ageratina adenophora* (Spreng.) King & H. Rob.** *Science Vision*, 13(4): 149-156.
- Samydurai, P., Sarvanan, R. and Eganathan, P., 2012. ***In vitro* multiple shoot Induction of *Eupatorium triplinervei*.** *Inter. J App. Bio. Sci.*, 6: 19-22.
- Sanchita, S.M.D., Rezwan, M., Dulal, C. and Lutfur, R., 2008. **Assessment of genetic variation and relationships within the varieties of four *Brassica* species by RAPD markers.** *Australian Journal of Crop Science*, 2(3): 105-114.
- Sandeep, S., Reby, S. and Abdul Muneer, P.M., 2010. **Genetic Diversity Analysis in *Piper* Species (Piperaceae) Using RAPD Markers.** *Mol Biotechnol.*, 46: 72-79.

- Sanjay, P., Nirav, G., Ashok, S. and Anand, S., 2009. ***In-Vitro* cytotoxicity activity of *Solanum nigrum* extract against Hela cell line and Vero cell line.** *International Journal of Pharmacy and Pharmaceutical Sciences*, 1(1): 38-49.
- Sankaranarayanan, R., Ramadas, K. and Qiao, Y.L., 2014. **Managing the changing burden of cancer in Asia.** *BMC Med.*, 12 (1): 3-12.
- Savitha, S. and Rathnavijaya, C., 2011. **Minimum inhibitory concentration and antioxidant properties of *Andrographis paniculata* using different solvent extracts.** *International Journal of Chemical Science and Technology*, 1(1): 21-28.
- Sasikumar, J.M., Pichai Anthoni Doss, A. and Doss, A., 2005. **Antibacterial activity of *Eupatorium glandulosum* leaves.** *Fitoterapia*, 76: 240-243.
- Satheesh, L.S. and Murugan, K., 2011. **Antimicrobial activity of protease inhibitor from leaves of *Coccinia grandis* (L.) Voigt.** *Ind J Exp Biol.*, 49: 366-74.
- Satish, N.M., Abhay, S.P., Chen, Y.L., Chao, L.K. and Hsin, S.T., 2002. **Studies on tissue culture of Chinese medicinal plant resources in Taiwan and their sustainable utilization.** *Bot. Bull. Acad. Sin.*, 44: 79-98.
- Savithramma, N., Ankanna, S., Beena, P. and Sasikala, A., 2012. **Micropropagation of *Dysophylla myosuroides* through leaf culture.** *Research in Biotechnology*, 3(2): 83-88.
- Sawhney, S.S., Painuli, R.M. and Singh, D., 2011. **Antioxidant and antimicrobial activity of *Phyllanthus emblica* for its application in treatment of ophthalmic disorders.** *Int J Pharm Pharm Sci.*, 4: 129-132.
- Selvi, P. and Muruges, 2017. **Identification of phytoconstituents from the methanolic extracts of *Cissus arnottiana* using GC-MS analysis.** *International Journal of Biology, Pharmacy and Allied Sciences*, 6(2): 253-262.
- Senthil, K. and Kamaraj, M., 2012. **Direct shoot regeneration from inter nodal explants of *Mentha viridis* L.** *International Journal of Pharmaceutical Sciences and Research*, 3(4): 1101-1103.
- Seitz, H.K. and Stickel, F., 2006. **Risk factors and mechanisms of hepatocarcinogenesis with special emphasis on alcohol and oxidative stress.** *Journal of Biological Chemistry*, 387: 349 - 360.

- Seo, W.G., Hwang, J.C., Kang, S.K., Jin, U.H., Suh, S.J. and Moon, S.K., 2005. **Suppressive effect of *Zedoariae rhizoma* on pulmonary metastasis of B16 melanoma cells.** *J Ethnopharmacol.*, 101: 249-57.
- Sermakkani, M. and Thangapandian, V., 2012. **GC-MS Analysis of *Cassia Italica* leaf methanol extract.** *Asian Journal of Pharmaceutical and Clinical Research*, 5(2): 90-94.
- Shaba, P., Pandey, N.N., Sharma, O.P., Rao, J.R., Mishra, A.K. and Singh, R.K., 2012. **Therapeutic activity of methanolic extract of *Eupatorium adenophorum* leaves against trypanosome *Evansi*.** *International Journal of Basic and Applied Medical Sciences*, 2 (1): 77-82.
- Shaban, A., Mani, G.M. and Nautiyal, R., 2012. ***In vitro* cytotoxicity of *Moringa oleifera* against different human cancer cell lines.** *Asian J Pharma Clin Res.*, 5: 271-282.
- Shafiqur, R.M.D. and Mohammad, J., 2008. **Antimicrobial activity of leaf extracts of *Eupatorium triplinerve* Vahl against some human pathogenic bacteria and pytopathogenic fungi.** *Bangladesh J. Bot.*, 37(1): 89-92.
- Shah, S.H., Ali, S. and Ali, G.M., 2013. **A novel approach for rapid *in vitro* morphogenesis in tomato (*Solanum lycopersicum* Mill.) with the application of cobalt chloride.** *European Acad. Res.*, 1: 2702-2721.
- Shahzad, A., Faisa, M. and Anis, M. 2007. **Micropropagation through excised root culture of *Clitoria ternatea* L. and comparison between *in vitro* regenerated plants and seedling.** *Annals of Applied Biology*, 150: 341-349.
- Sharada, D.L., Kumudini, N., Bhushan, B.A. and Somshekhar, K.S., 2013. **Isolation and quantitative estimation of quercetin in *Lagenaria siceraria* Fruit.** *J Chromatograph Separat Techniq.*, 4(6): 1-4.
- Sharma, J.V., Gummalla P., Satyavati, D. and Venkateswara Rao, J., 2011. ***In - Vitro* anticancer activity of methanolic extract of roots of *Glochidion zeylanicum* (Gaertn.)** *International Journal of Research in Pharmaceutical and Biomedical Sciences*, 2(2): 760-765.
- Sharma, N., Gauchan, D.P., Dhakal, A., Luitel, A., Shakya, S. and Shakya, R. 2015. **Establishment of Regenerative Callus, Cell Suspension System and Molecular Characterization of *Stevia Rebaudiana* for the Production of Stevioside in *in Vitro*.** *International Journal for Research in Applied Science & Engineering Technology*, 3(8): 133-144.

- Sharma, N.K., Choudhary, R.C. and Kumar, M. 2015. **Effects of 2,4-D on callus development of six *Ocimum* species.** *International Journal of Phytomedicines and Related Industries*, 7(1): 35-40.
- Sharuti, R. and Narender, S., 2013. ***In- vitro* conservation of *Bacopa monnieri* -an endangered medicinal plant.** *GJBB.*, 2(2): 187-192.
- Shashi, B., Jaswant, S., Madhusudana, R.J., Kumar, S.A. and Nabi, Q.G., 2006. **A novel lignan composition from *Cedrus deodara* induces apoptosis and early nitric oxide generation in human leukemia Molt-4 and HL-60 cells.** *Nitric Oxide*, 14: 72-88.
- Shasthree, T., Chandrashekar, C.H., Savitha, R. and Imran, 2012. **Effect of various plant growth regulators on callus induction from different explants of *Citrullus colocynthis* (L) Schrad.** *International Journal of Universal Pharmacy and Life Sciences*, 2(3): 33-39.
- Sheeja, L., Lakshmi, D., Shruthi, B. and Sajidha Parveen, K., 2016. **Anticancer activity of phytol purified from *Gracilaria edulis* against human breast cancer cell line (MCF-7).** *Int J Curr Sci.*, 19(4): 36-46.
- Shekhar, T.C. and Anju, G., 2014. **Antioxidant Activity by DPPH radical scavenging method of *Ageratum conyzoides* Linn. Leaves.** *American Journal of Ethnomedicine*, 1(4): 244-249.
- Shin, H.R., Carlos, M.C. and Varghese, C., 2012. **Cancer control in the Asia pacific region: current status and concerns.** *Jpn J Clin Oncol.*, 42: 867-881.
- Shirly, K. and Dwi, W.S., 2011. **Phytochemical screening and toxicological evaluation.using brine shrimp lethality test (bslt) of some fractions of prasman leaves (*Eupatorium triplinerve* V) extract.** *Indonesian Journal of cancer chemoprevention*, 2(1): 193-197.
- Shiva, R.A., Sita Devi, P. and Ravi Kiran, S., 2013. ***In vitro* cell culture of *Charybdis congesta* for enhanced production of secondary metabolites: Proscillaridin A, Scillaren A and Scilliroside.** *African Journal of Biotechnology*, 12(15): 1754-1759.
- Shoeb, M., Celik, S., Jaspars, M., Kumarasamy, Y., MacManus, S., Nahar, L., Kong, T.L.P. and Sarker, S.D., 2006. **Isolation, structure elucidation and bioactivity of schischkiniin, a unique indole alkaloid from the seeds of *Centaurea schischkini*.** *Tetrahedron*, 61: 9001-9006.

- Shruti, S. and Archana, M., 2015. **Anticancer potential of medicinal plants and their phytochemicals: a review.** *Braz. J. Bot.*, 1-12.
- Sigstedt, S.C., Hooten, C.J., Callewaert, M.C., Jenkins, A.R., Romero, A.E., Pullin, M.J., Kornienko, A., Lowrey, T.K., Slambrouck, S.V. and Steelant, W.F., 2008. **Evaluation of aqueous extracts of *Taraxacum officinale* on growth and invasion of breast and prostate cancer cells.** *Int J Oncol.*, 32(5): 1085-90.
- Siddique, S., Tessay, T. and Shagufta, K., 2019. **Comparative Analysis of Piperine in Wild Plant and Callus of *Piper longum* by HPLC Method.** *Pharmaceutical and Biosciences Journal*, 7(2): 7-10.
- Silva, Simone, D.P., Ester, N., Assuncao, Lais Medeiros de, Silva, Efigenia Lopes da, Rodrigues, Daniele de Carvalho, Ferreira, Flavio Freires, Marinho, Vitor Rafael Pereira, Astolfi-Filho and Spartac, 2018. **In vitro propagation of *Psychotria ipecacuanha* (Brot.) Stokes under different concentrations of Indole acetic Acid.** *Revista Fitos. Rio de Janeiro*, 12(3): 263-268.
- Singh, R., Koppikar, S.J., Paul, P., Gilda, S., Paradkar, A.R. and Kaul-Ghanekar, R., 2009. **Comparative analysis of cytotoxic effect of aqueous cinnamon extract from *Cinnamomum zeylanicum* bark with commercial cinnamaldehyde on various cell lines.** *Pharmaceutical biology*, 47(12): 1174-1179.
- Sobrinho, A.C.N., Selene, M.M., Elnatan, B.S. and Raquel, O.S., Fontenelle, 2017. **The genus *Eupatorium* L. (Asteraceae): A review of their antimicrobial activity.** *J. Med. Plants Res.*, 11(3): 43-57.
- Sofowora, A., Ogunbodede, E. and Onayade, A., 2013. **The Role and place of medicinal plants in the strategies for disease prevention.** *Afr J Tradit Complement Altern Med.*, 10(5): 210-229.
- Souza, N.D.R., Murthy, N.S. and Aras, R., 2013. **Projection of cancer incident cases for India -till 2026.** *Asian Pacific journal of cancer prevention*, 14(7): 4379-86.
- Sridhar, T.M. and Naidu, C.V., 2011. **An efficient callus induction and plant regeneration of *Solanum nigrum* (L.) - An important antiulcer medicinal plant.** *Journal of Phytology*, 3(5): 23-28.
- Srikanth, S. and Chen, Z., 2016. **Plant Protease Inhibitors in Therapeutics-Focus on Cancer Therapy.** *Front. Pharmacol.*, 7:470-479.

- Srinivasa, R.K., Chaudhury, P.K. and Pradhan, A., 2010. **Evaluation of anti-oxidant activities and total phenolic content of *Chromolaena odorata***. *Food Chem Toxicol.*, 48: 729-735.
- Srivastava, J.K. and Gupta, S., 2007. **Antiproliferative and apoptotic effects of chamomile extract in various human cancer cells**. *J Agric Food Chem.*, 55: 9470-9478.
- Subash, K.R., Jagan Rao, N., Binoy Varghese Cheriyan, Muthulakshmi Bhaarati, G. and Sandeep Kumar, K., 2012. **Anthelmintic Activity of *Eupatorium triplinerve* and *Alpinia galanga* in *Pheritima posthuma* and *Ascaridia galli***. *Journal of Clinical and Diagnostic Research*, 6(6): 947-950.
- Sudha Bai, R., Remakanthan, A., Hareesh Kumar, H. and Aryakrishna, U. K., 2017. **A comparative study of the phytochemicals, antioxidant and antibacterial potential of methanolic extracts of *Trichosanthes cucumerina* (L) Var. *Cucumerina* under in vitro culture and natural conditions**. *Int J Pharm Pharm Sci.*, 10(1): 147-154.
- Sudhakar, J.T., Badari Narayan, S. and Narayana, D.B.A., 1997. **Rapid in vitro propagation of *Saussurea lappa* C.B. Clarke. An endangered medicinal plant, through multiple shoot cultures**. *In vitro cell division medicinal plant*, 33: 128-130.
- Sugumar, N., Karthikeyan, S. and Gowdhami, T., 2014. Original research article: **Preliminary photochemical screening of the leaf extract of *Eupatorium triplinerve* Vahl**. *International Journal of Pharmaceutical & Biological Archives*, 5(5): 141-144.
- Sugumar, N. and Karthikeyan, S., 2015. **Preliminary phytochemical screening gc-ms and ftir profiling of methanolic extract of leaves on *Eupatorium triplinerve* Vahl**. *International Journal of Multidisciplinary Research and Development*, 2(8): 335-340.
- Sukanlaya, L., Teeratad, S. and Chat, K., 2015. ***Eupatorium ayapana*, a natural source of anti-biofilm, anti-inflammatory and anti-oxidant agents**. *Rangsit Journal of Arts and Sciences*, 5(2): 141-149.
- Sultana, N. and Lee, N.H., 2007. **Antielastase and free radical scavenging activities of compounds from the stems of *Cornus kousa***. *Phytother Res.*, 21: 1171-1176.
- Sunandakumari, C., Zhang, C.L., Martin, K.P., Slater, A. and Madhusoodanan, P.V., 2005. **Effect of auxins on indirect in vitro morphogenesis and expression of gusA transgene in a lectinaceous medicinal plant**,

Euphorbia nivulia Buch.-Ham. *In Vitro Cellular & Developmental Biology – Plant*, 41(5): 695-699.

Sunita, A., Ganesh, K. and Sonam, M., 2017. **Screening and evaluation of bioactive components of *Cenchrus ciliaris* L. by GC-MS analysis.** *International research journal of pharmacy*, 8(6): 69-76.

Suresh, M., Ravishankar, K. and Palaksha, M.N., 2014. **Evaluation of *in vitro* antioxidant activity of ethanolic root extract of *Eupatorium odoratum*.** *World journal of pharmacy and pharmaceutical sciences*, 4(1): 1009-1018.

Suresha, P.G., Vikas, V., Kulkarni, S.M., Supriya, S., Darshan, C. and Patil, B., 2017. **Genetic Diversity Analysis in Sunflower (*Helianthus annuus* L.) parental Lines Using SSR and RAPD Markers.** *Int.J.Curr.Microbiol.App.Sci.*, 6(7): 2069-2076.

Susi, E., Jaksa, S., Marsiati, H., Fauziah, O. and Rahmat, A., 2011. **Effects of cola nut (*Cola nitida*) on the apoptotic cell of human breast carcinoma cell lines.** *J Med Plants Res.*, 5(11): 2393-7.

Syed, D.N., Chamcheu, J.C., Adhami, V.M. and Mukhtar, H., 2013. **Pomegranate extracts and cancer prevention: molecular and cellular activities.** *Anticancer Agents Med Chem.*, 13(8): 1149-1161.

Taha, H.S., El-Bahr, M.K. and Seif-El-Nasr, M.M., 2008. ***In vitro* studies on Egyptian *Catharanthus roseus* (L.) G. Don.:1-calli production, direct shootlets regeneration and alkaloids determination.** *J. Appl. Sci. Res.*, 4(8): 1017-1022.

Tahir, S.M., Victor, K. and Abdulkadir, S., 2011. **The effect of 2, 4-Dichlorophenoxy Acetic Acid (2, 4-D) concentration on callus Induction in sugarcane (*Saccharum officinarum*).** *Nigerian J. Basic & Applied Sci.*, 19(2): 213-127.

Taiwo, O.B., Olajide, O.A., Soyannwo, O.O. and Makinde, J.M., 2000. **Anti-inflammatory, antipyretic and antispasmodic properties of *Chromolaena odorata*.** *Pharmac Biol.*, 38: 367-372.

Takemoto, T., Nishimoto, N., Nakai, S., Takagi, N., Hayashi, S. and Odashima, S., 1983. **Pfaffic acid, a novel nortriterpene from *Pfaffia paniculata* Kuntze.** *Tetrahedron Letter*, 24: 1057-60.

Takiar, R., Nadayil, D. and Nandakumar, A., 2010. **Projections of Number of Cancer Cases In India (2010-2020) by Cancer Groups.** *Asian Pacific Journal of Cancer Prevention*, 11: 1045-1049.

- Tamyris, R.M.L., Fabio Rodrigues de Oliveira, Flavia Filocreao Malheiros, Marcieni Ataíde de Andrade, Marta Chagas Monteiro and Ana Cristina Baetas Goncalves, 2014. **Antimicrobial bioassay-guided fractionation of a methanol extract of *Eupatorium triplinerve***. *Pharm Biol.*, 1-7.
- Tascilar, M., De Jong, F.A., Verweij, J. and Mathijssen, R.H., 2006. **Complementary and alternative medicine during cancer treatment: beyond innocence**. *Oncologist*, 11: 732-741.
- Taylor, R.S.L., Hudson, J.B., Manandhar, N.P. and Towers, G.H.N., 1996. **Antiviral activities of medicinal plants of southern Nepal**. *J. Ethnopharmacol.*, 53: 97-104.
- Taylor, J.R. and Wilt, V.M., 1999. **Probable antagonism of warfarin by green tea**. *Ann Pharmacother.*, 33: 426-428.
- Thomson, M. and Ali, M., 2003. **Garlic (*Allium sativum*): a review of its potential use as an anti-cancer agent**. *Current Cancer Drug Targets*, 3(1): 67-74.
- Thorat, A.S., Nishant, A.S., Vrushali, V.C., Rachayya, M.D. and Harinath Babu, K., 2018. **Plant regeneration from direct and indirect organogenesis and assessment of genetic delity in *Saccharum officinarum* using DNA-based markers**. *Biosci.Biotech.Res. Comm.*, 11(1): 60-69.
- Tian, Yu, Hou Jing, Wu Jian-Ping, He Lan and Cao Ao-Cheng, 2007. **Study on the volatile components from *Eupatorium adenophorum* Spreng and its antifungal activity**. *Chinese Journal of Pesticide Science*, 2-8.
- Torres, J., Laskowski, L. and Sanabria, M.E., 2006. **Efecto del ambiente de desarrollo sobre la anatomía de la epidermis foliar de *Cattleya jenmanii* Rolfe**. *Bioagro*, 18: 93–99.
- Trease, G. E. and Evans, W. E., 2005. **Pharmacognosy**, 13th edition, Bailliere Tindall, London.
- Tripathi, R., Suryakant, V., Easwari, T.S. and Harish Shah., 2013. **Standardization of some herbal antidiabetic drugs in polyherbal formulation & their comparative study**. *IJPSR*, 4(8): 3256-3265.
- Trueman, S.J., Hung, C. and Wendling, I., 2018. **Tissue Culture of *Corymbia* and *Eucalyptus***. *Forests* , 9(2): 84.

- Tu, L.Y., Pi, J., Jin, H., Cai, J.Y. and Deng, S.P., 2016. **Synthesis, characterization and anticancer activity of kaempferol-zinc (II) complex.** *Bioorg Med Chem Lett.*, 26(11): 2730-2734.
- Twab, A.M.H. and Zahran, F.A., 2010. **RAPD, ISSR and RFLP analysis of phylogenetic relationships among congeneric species (Anthemideae, Asteraceae) in Egypt.** *International Journal of Botany*, 6: 1-10.
- Umesh, B.T. and Thoppil, J.E., 2014. **Comparison of Chemical constituents of tissue cultured and field grown plants of *Duchesnea indica*, (Andr.) Focke.** *Journal of Pharmacognosy and Phytochemistry*, 3 (3): 68-70.
- Umukoro, S. and Ashorobi, R.B., 2006. **Evaluation of Anti-inflammatory and membrane stabilizing Effects of *Eupatorium odoratum*.** *Int J of Pharmacol.*, 2(5): 509-512.
- Unnikrishnan, K.P., Sudhakar Raja, S. and Indira, B., 2008. **A Reverse Phase HPLC-UV and HPTLC methods for determination of plumbagin in *Plumbago indica* and *Plumbago zeylanica*.** *Indian Journal of Pharmaceutical Sciences*, 844-848.
- Usha and Karpagam, S., 2017. **Plant Regeneration from Nodal explants Culture through Organogenesis in *Eupatorium triplinerve* vahl.** *Journal of Pharmacy and Biological Sciences*, 12(4): 28-32.
- Vandana, J.D., Singh, Swarnalata, S. and Saraf, S., 2003. ***In vitro* micropropagation of *Rauwolfia serpentine* through multiple shoot generation.** *Anc Sci Life*, 23(1): 44-49.
- Varandas, E.R., Filipe Ressurreicao and Wanda Viegas, Margarida Delgado, 2014. **Cytotoxicity of *Eupatorium cannabinum* L. ethanolic extract against colon cancer cells and interactions with Bisphenol A and Doxorubicin.** *BMC Complementary and Alternative Medicine*, 14, 264: 1-10.
- Vasanthi, S. and Gopalakrishnan, V.K., 2013. ***In vitro* antioxidant, anti-acetylcholinesterase activity and GC-MS analysis of essential oil from flowers of *Ageratina adenophora* (Spreng).** *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 4(2): 1419-1428.
- Verpoorte, R., 2000. **Plant secondary metabolism. in Metabolic Engineering of Plant Secondary Metabolism.** Eds. Verpoorte R, Alfermann AW (Kluwer Academic Publishers, Dordrecht, The Netherlands). Pp. 1-29.

- Velliangiri, P., Illath Sujina, Hariharan Hemlal and Subban Ravi, 2011. **Essential oil composition, antimicrobial, MRSA and in-vitro cytotoxic activity of fresh leaves of *Chromolaena odorata*.** *Journal of Pharmacy Research*, 4(12): 4609-4611.
- Venkataraman, B., Samuel, L.A., Pardha Saradhi, M., Narashimharao, B., Naga Vamsi Krishna, A. and Sudhakar, M., 2012. **Antibacterial, antioxidant activity and GC-MS analysis of *Eupatorium odoratum*.** *Asian J Pharm Clin Res.*, 5: 99-106.
- Verma, A.K., Prasad, K.V., Janakiram, T. and Kumar, S., 2012. **Standardization of Protocol for Pre-treatment, Surface Sterilization, Regeneration, Elongation and Acclimatization of *Chrysanthemum morifolium* Ramat.** *International Journal of Horticulture*, 2(3): 7-12.
- Vidushi, S.N.B., 2013. **Underestimating the toxicological challenges associated with the use of herbal medicinal products in developing countries.** *Biomed Res Int.*, 804-806.
- Vieira, R.F. and Skorupa, L.A., 1993. **Brazilian medicinal plants gene bank.** *Acta Hort.*, 330: 51-58.
- Vijayashalini, P., Anjanadevi, N., Abirami, P. and Sharmila, M., 2017. **In vitro propagation of an endangered medicinal plant *Bryonia laciniosa* L. through leaf explants.** *International Journal of Current Research and Modern Education*, 2(1): 33-37.
- Vikas, S., Barkha, K., Nidhi, S., Anoop, K.D. and Vikash, S.J., 2014. **In vitro flower induction from shoots regenerated from cultured axillary buds of endangered medicinal herb *Swertia chirayita* H. Karst.** *Biotechnology Research International*, 5: 1-6.
- Wang, H., Khor, T.O., Shu, L., Su, Z.Y. and Fuentes, F., 2012. **Plants against cancer: a review on natural phytochemicals in preventing and treating cancers and their druggability.** *Anticancer Agents Med Chem.*, 12(10): 1281-1305.
- Wang, B.X., Cui, J.C. and Liu, A.J., 2015. **The action of ginsenosides extracted from the stems and leaves of *Panax ginseng* in promoting animal growth.** *Acta Pharmaceutica Sinica*, 17(12): 899-904.
- Wang, L., Yu Du, Mahbubur Rahman, M.D., Biao Tang, Li-Juan Fan, and Aruna Kilaru, 2018. **Establishment of an efficient in vitro propagation system for *Iris sanguine*.** *Scientific Reports*, 8: 1-8.

- Watt, J.M. and Brandwijk, W.M.G., 1962. **Medicinal and Poisonous Plants of Southern and Eastern Africa.** E and S Livingstone, Edinburgh.
- Weisburger, J.H., 2000. **Tea In: The Cambridge world History of food.** (Eds:K.Kipple and K.C.Orneal). Cambridge Univ.Press. Cambridge, 712-720.
- Weng, J.R., Li, Y.B., Chiu, C.F., Hu, J.L., Chiu, S.J. and Wu, C.Y., 2013. **Cucurbitane triterpenoid from *Momordica charantia* induces apoptosis and autophagy in breast cancer cells, in part, through peroxisome proliferator-activated receptor-c activation.** *Evid Based Comp Altern Med.*, 1-13.
- Weniger, B. and Robinean, L., 1988. **Elements for Carribean Pharmacopoeia.** *Proceedings of TRAMIL workshop*, Cuba.
- Weyerstahl, P., Marschall, H., Seelmann, I. and Kaul, V., 1998: **Constituents of the flower essential oil of *Ageratina adenophora* (Spreng) from India.** *Flavour Frag. J.*, 12: 387-396.
- WHO, 1998. **monograph on selected medicinal plants.** *Geneva, World Health Organisation*, 12-21.
- Widmer, V., Handloser, D. and Reich, E., 2014. **Quantitative HPTLC Analysis of Artemisinin in Dried *Artemisia annua* L.: A Practical Approach.** *Journal of Liquid Chromatography & Related Technologies*, 30: 2209-2219.
- Williams, W.B., Cuvelier, M. E. and Berset, C., 1995. **Use of a Free Radical Method to Evaluate Antioxidant Activity.** *Lebensm Wiss Technol.*, 28: 25-30
- Winarto, B. and Yufdy, M. P., 2017, **Establishment of in vitro propagation protocol of *Gerbera jamesonii* Bolus ex Hook F. explant and media selection to plantlet acclimatization.** *Agraarteadus J. Agric. Sci.*, 32-40.
- Wongsen, W., Bodhipadma, K., Noichinda, S. and Leung, D.W.M. 2015. **Influence of different 2,4-D concentrations on antioxidant contents and activities in sweet basil leaf-derived callus during proliferation.** *International Food Research Journal*, 22(2): 638-643.
- Wozniak, L., Skapska, S. and Marszalek, K., 2015. **Ursolic acid-a pentacyclic triterpenoid with a wide spectrum of pharmacological activities.** *Molecules*, 20: 20614-20641.

- Xiong, M., Wang, L., Yu, H.L., Han, H., Mao, D. and Chen, J., 2016. **Ginkgetin exerts growth inhibitory and apoptotic effects on osteosarcoma cells through inhibition of STAT3 and activation of caspase-3/9.** *Oncolo Rep.*, 35(2): 1034-1040.
- Yadav, K., Groach, R., Aggarwal, A. and Singh, N., 2015. **A Reliable Protocol for Micropropagation of *Gloriosa superba* L. (Colchicaceae).** *Asia-Pacific Journal of Molecular Biology and Biotechnology*, 23(1): 242-251.
- Yadava, R.N. and Saini, V.K., 1990. ***In vitro* antimicrobial efficacy of the essential oil of *Eupatorium triplinerve* leaves.** *Indian perfumer*, 34: 61-63.
- Yan, Q.S., Yang, J., Li, H.M., Cao, A.C., Chen, Q.H., Wen Y.Q. and He L., 2006. **Advances in the studies bon the chemical components and bioactivity of *Eupatorium adenophorum* Spreng as a intruding species.** *J. Beijing Normal Univ.*, 42: 70-73.
- Yang, M.Y., Changa, Y.C., Chanb, K.C., Leec, Y.J. and Wanga, C.J., 2011. **Flavonoid-enriched extracts from *Nelumbo nucifera* leaves inhibits proliferation of breast cancer *in vitro* and *in vivo*.** *Eur J Integr Med.*, 3(3): 153-163.
- Yang, J.F., Wang, R.Q.L., Zhou, D.H., Duan, G. and Zou, F.C., 2012. **Anticoccidial activity of *Eupatorium adenophorum* extracts against chicken coccidian oocysts.** *Journal of animal and veterinary advances*, 11(8): 1255- 1257.
- Yin, X, Zhou, J., Jie, C., Xing, D. and Zhang, Y., 2004. **Anticancer activity and mechanism of *Scutellaria barbata* extract on human lung cancer cell line A 549.** *Life Sci.*, 17: 2233-2339.
- Yoon, Y., Kim, Y., Jeon, W.K., Park, H.J. and Sun, H.J., 1999. **Tanshinone IIA isolated from *Salvia miltiorrhiza* B. induced apoptosis in HL60 human premyelocytic leukemia cell line.** *Journal of Ethnopharmacology*, 68(1): 121-128.
- Young, U.J., Chung, H.S., Kim, M.S. and Na, H.J., 2001. **Molecular authentication of *Panax ginseng* species by RAPD analysis and PCR-RFLP.** *Biol. Pharm. Bull.*, 24: 872-875.
- Yun, W., Kai Zhang, Guoliang Zhang and Yoichiro Ito, 2011. **Isolation of five bioactive components from *Eupatorium adenophorum* spreng using stepwise elution by high-speed countercurrent chromatography.**

Journal of Liquid Chromatography & Related Technologies, 34(20): 2505-2515.

- Yusuf, M., Begum, J. Hoque, M.N. and Chowdhury, J.U., 2009. **Medicinal plants of Bangladesh, Revised and enlarged**, BCSIR Laboratories, Chittagong-4220. Bangladesh, p 288.
- Zeleznik, A., Baricevic, D. and Vodnik, D., 2002. **Micropropagation and acclimatization of yellow gentian (*Gentiana lutea* L.)**. *Zbornik Biotehniske fakultete Univerze Ljubljani.*, 79(1): 253-259.
- Zeraga, N.J.C., Supardi, M.N.N. and Motley, T.J., 2010. **Phylogeny and recircumscription of Artocarpaceae (Moraceae) with a focus on *Artocarpus***. *Systematic Botany*, 35 (4): 766-782.
- Zhang, Z., Shiyou Li and Xiao-Yuan Lian, 2010. **An overview of genus aesculus: ethnobotany, phytochemistry and pharmacological activities**. *Pharmaceutical Crops*,1: 24-51.
- Zhang, M., Wan-Xue Liu, Meng-Fei Zheng, Qiao-Lin Xu, Fang-Hao Wan, Jing Wang, Ting Lei, Zhong-Yu Zhou and Jian-Wen Tan, 2013. **Bioactive Quinic Acid Derivatives from *Ageratina adenophora***. *Molecules*, 18: 14096-14104.
- Zhang, Y., Dongling, S. and Shangchun Hu., 2017. ***In vitro* propagation of medicinal and ornamental plant *Lysimachia davurica***. *Eur. J. Hortic. Sci.*, 82(1): 54-60.
- Zhao, W.J., Wang Yi., Jiang ShiCui., Xu Yuan., Sun ChunYu. and Zhang MeiPing., 2009. **Establishment and optimization of *in vitro* regeneration system for *Panax ginseng***. *Journal of Jilin Agricultural University*, 31(1): 41-44.
- Zhao, X., Guo-Wei, Z., Xue-Mei, N., Wei-Qi, L., Fu-Sheng, W. and Sheng-Hong, L., 2009. **Terpenes from *Eupatorium adenophorum* and their allelopathic effects on *Arabidopsis* seeds germination**. *J. Agric. Food Chem.*, 57: 478-482.
- Zhihua, L., Min Chen., Feng Tan., Xiaofen Sun and Kexuan Tang., 2004. **Micropropagation of endangered Chinese *Aloe***. *Plant Cell, Tissue and Organ Culture*, 6(1): 83-86.
- Zhong, Y.Z., Wan-Xue Liu, Gang Pei, Hui Ren, Jing Wang., Qiao-Lin Xu., Hai-Hui Xie., Fang-Hao Wan and Jian-Wen Tan., 2013. **Phenolics from *Ageratina adenophora* roots and their phytotoxic effects on**

Arabidopsis thaliana Seed Germination and Seedling Growth.
Journal Agriculture Food Chemistry, 61(48): 11792-11799.

Zou, L.J., Yang, J.T. and Wu, Q.G., 2017. **A Protocol for Rapid and High-Frequency *In Vitro* Propagation of *Solanum nigrum* L.** *Sains Malaysiana*, 46(8): 1183-1189.

Zuraida, A.R., Erny, S., Mohd, S., Ali and Razali, M., 2015. ***In Vitro* Micropropagation of a Valuable Medicinal Plant, *Plectranthus amboinicus*.** *American Journal of Plant Sciences*, 6(8): 1091-1097.