

BIBLIOGRAPHY

BIBLIOGRAPHY

- Adaobi CE, Peter AA, Charles CO, Chinwe BO (2010) Experimental evidence for the antidiabetic activity of *Cajanus cajan* leaves in rats. Journal of Basic and Clinical Pharmacy 1 (2):81-84.
- Altschul SF, Madden TL, Schaffer AA, Zhang J, Zhang Z, Miller W, Lipman DJ (1997) Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. Nucleic Acids Research 25 (17):3389-3402.
- Arca M, Hinsinger DD, Cruaud C, Tillier A, Bousquet J, Frascaria-Lacoste N (2012) Deciduous trees and the application of universal DNA barcodes: a case study on the circumpolar *Fraxinus*. Plos One 7 (3):e34089.
- Arcamone F, Cassinelli G, Dimatteo F, Forenza S, Ripamonti M, Rivola G, Vigevani A, Clardy J, Maccabe T (1980) Structures of novel anthracycline antitumor antibiotics from *Micromonospora peucetica*. Journal of the American Chemical Society 102:1462–1463.
- Asahina H, Shinozaki J, Masuda K, Morimitsu Y, Satake M (2010) Identification of medicinal *Dendrobium* species by phylogenetic analyses using *matK* and *rbcL* sequences. Journal of Natural Medicines 64 (2):133-138.
- Barret RDH, Hebert PDN (2005) Identifying spiders through DNA barcoding. Canadian Journal of Zoology 83:481-489.
- Barthet MM, Hilu KW (2008) Evaluating evolutionary constraint on the rapidly evolving gene *matK* using protein composition. Journal of Molecular Evolution 66 (2):85-97.
- Beismann H, J.H.A. Barker, Karp A, Speck T (1997) AFLP analysis sheds light on distribution of two *Salix* species and their hybrid along a natural gradient. Molecular Ecology 6:989-993.
- Blaxter ML (2004) The promise of a DNA taxonomy. Philosophical transactions of the Royal Society of London Series B, Biological sciences 359 (1444):669-679.
- Botstein D, White RL, Skolnick M, Davis RW (1980) Construction of a genetic linkage map in man using restriction fragment length polymorphisms. American Journal of Human Genetics 32 (3):314-331.

- Bruni I, De Mattia F, Martellos S, Galimberti A, Savadori P, Casiraghi M, Nimis PL, Labra M (2012) DNA Barcoding as an Effective Tool in Improving a Digital Plant Identification System: A Case Study for the Area of Mt. Valerio, Trieste (NE Italy). *Plos One* 7(5): e43256.
- Bruni I, De Mattia F, Galimberti A, Galasso G, Banfi E, Casiraghi M, Labra M (2010) Identification of poisonous plants by DNA barcoding approach. *International Journal of Legal Medicine* 124 (6):595-603.
- Bruyns PV (2000) Baynesia, a new genus of stapeliad from the northwestern-most corner of Namibia (Apocynaceae). *Novon* 10:354–358.
- Carlson JE, Tulsieram LK, Glaubitz JC, Luk VWK, Kauffeldt C, Rutledge R (1991) of random amplified DNA markers in F1 progeny of conifers. *Theoretical and Applied Genetics* 83:194-200.
- Cervera MT, Cabezas JA, Sancha JC, Martinez de Toda F, Martinez-Zapater JM (1998) Application of AFLPs to characterization of grapevine *Vitis vinifera* L. *Theoretical and Applied Genetics* 97:51-59.
- Chase MW, Cowan RS, Hollingsworth PM, Van den Berg C, Madrinan S, Petersen G, Seberg O, Rgsensen T, Cameron KM, Carine M, Pedersen N, Hedderson TAJ, Conrad F, Salazar GA, Richardson JE, Hollingsworth ML, Barraclough TG, Kelly L, Wilkinson M (2007) A proposal for a standardised protocol to barcode all land plants. *Taxon* 56:295-299.
- Chen S, Yao H, Han J, Liu C, Song J, Shi L, Zhu Y, Ma X, Gao T, Pang X, Luo K, Li Y, Li X, Jia X, Lin Y, Leon C (2010) Validation of the ITS2 region as a novel DNA barcode for identifying medicinal plant species. *Plos One* 5 (1):e8613.
- Cragg GM, Newman DJ (2005) Plants as source of anticancer agents. *Journal of Ethnopharmacology* 100:72-79.
- Dagan T, Talmor Y, Graur D (2002) Ratios of radical to conservative amino acid replacement are affected by mutational and compositional factors and may not be indicative of positive Darwinian selection. *Molecular Biology and Evolution* 19 (7):1022-1025.
- Dong W, Liu J, Yu J, Wang L, Zhou S (2012) Highly variable chloroplast markers for evaluating plant phylogeny at low taxonomic levels and for DNA barcoding. *Plos One* 7 (4):e35071.

- Dunning LT, Savolainen V (2010) Broad-scale amplification of *matK* for DNA barcoding plants, a technical note. *Botanical Journal of the Linnean Society* 164 (1):1-9.
- Endress M (2004) Apocynaceae: Brown and now Telopea 10 (2):525-540.
- Endress ME, Stevens WD (2001) The renaissance of the Apocynaceae sens. *lat.*: recent advances in systematics, phylogeny, and evolution: Introduction. *Annals of the Missouri Botanical Garden* 88:517–522.
- Endress ME, Bruyns P (2000) A revised classification of the Apocynaceae *sens. lat.*. *Botanical Review (Lancaster)* 66:1–56.
- Escaravage N, Questianu S, Poron A, Doche B, Taberlet P (1998) Clonal diversity in a *Rhododendron ferrugineum* L. (Ericaceae) population inferred from AFLP markers. *Modern Ecology* 7:975-982.
- Farnsworth NR, Bingel AS (eds) (1977) Problems and prospects of discovery new drugs from higher plants by pharmacological screening. New Natural products and plant drugs with pharmacological, biological and therapeutical activity. Springer, Verlag, Berlin.
- Farnsworth NR, Blowster RN, Darmratoski D, Meer WA, Cammarato LV (1967) Studies on *Catharanthus* alkaloids IV Evaluation by means of TLC and ceric ammonium sulphate spray reagent. *Loydia* 27:302-314.
- Fazekas AJ, Kesanakurti PR, Burgess KS, Percy DM, Graham SW, Barrett SC, Newmaster SG, Hajibabaei M, Husband BC (2009) Are plant species inherently harder to discriminate than animal species using DNA barcoding markers? *Molecular Ecology Resources* 9 :130-139.
- Fazekas AJ, Burgess KS, Kesanakurti PR, Graham SW, Newmaster SG, Husband BC, Percy DM, Hajibabaei M, Barrett SC (2008) Multiple multilocus DNA barcodes from the plastid genome discriminate plant species equally well. *Plos One* 3 (7): e2802.
- Floyd R, Abebe E, Papert A, Blaxter M (2002) Molecular barcodes for soil nematode identification. *Molecular Ecology* 11 (4):839-850.
- Forster PI, Liddle DJ, Liddle IM (1997) *Madangia inflata* (Asclepiadaceae: Marsdenieae), a new genus and species from Papua New Guinea. *Austrobaileya* 5:53–57.

- Forster PI (1990) Notes on Asclepiadaceae, 2 (Gunnesia). *Austrobaileya* 3:273–289.
- Fu YM, Jiang WM, Fu CX (2011) Identification of species within *Tetrastigma* (Miq.) Planch. (Vitaceae) based on DNA barcoding techniques. *Journal of Systematics and Evolution* 49 (3):237–245.
- Gaiotto FA, Bramucii M, Grattapaglia D (1997) Estimation of outcrossing rate in a breeding population of *Eucalyptus urophylla* with dominant RAPD and AFLP markers. *Theoretical and Applied Genetics* 95:842-849.
- Gao T, Sun Z, Yao H, Song J, Zhu Y, Ma X, Chen S (2011) Identification of Fabaceae plants using the DNA barcode *matK*. *Planta Medica* 77 (1):92-94.
- Garcia-Lor A, Curr F, Snoussi-Trifa H, Morillon R, Ancillo G, Luro F, Navarro L, Ollitrault P (2013) A nuclear phylogenetic analysis: SNPs, indels and SSRs deliver new insights into the relationships in the 'true citrus fruit trees' group (Citrinae, Rutaceae) and the origin of cultivated species. *Annals of Botany* 111 (1):1-19.
- Ghosh PR, Kundu S, Das KC, Laskar BA, Devi B, Ghosh SK (2012) Sampling and vouchering. In: Ghosh SK (ed.) A text book of DNA barcoding. Book Space, Kolkata.
- Ghosh SK, Bhattacharjee MJ, Mahadani P, Laskar BA (2012) Fundamentals of DNA barcoding. In: Ghosh SK (ed.) A text book of DNA barcoding. Book Space, Kolkata.
- Godfray HCJ (2002) Challenges for taxonomy—the discipline will have to reinvent itself if it is to survive and flourish. *Nature* 417:17–19.
- Golenberg EM, Clegg MT, Durbin ML, Doebley J, Ma DP (1993) Evolution of a noncoding region of the chloroplast genome. *Molecular Phylogenetic Evolution* 2:52-64.
- Gonzalez MA, Baraloto C, Engel J, Mori SA, Petronelli P, Riera B, Roger A, Thebaud C, Chave J (2009) Identification of Amazonian trees with DNA barcodes. *Plos One* 4 (10):e7483.
- Graham SW, Reeves PA, Burns ACE, Olmstead RG (2000) Microstructural changes in non-coding DNA: interpretation, evolution and utility of indels

- and inversions in basal angiosperm phylogenetic inference. International Journal of Plant Sciences 161:S83–S96.
- Grattapaglia D, Bradshaw HD (1994) Nuclear DNA content of commercially important Eucalyptus species and hybrids. Canadian Journal of Forest Research 24:1074-1078.
- Gu HF, Xia Y, Penga R, Mo BH, Li L, Zenga XM (2011) Authentication of Chinese crude drug gecko by DNA barcoding. Natural Product Communications 6 (1):67-71.
- Guo X, Wang X, Su W, Zhang G, Zhou R (2011) DNA barcodes for discriminating the medicinal plant *Scutellaria baicalensis* (Lamiaceae) and its adulterants. Biological and Pharmaceutical Bulletin 34 (8):1198-1203.
- Guthrie N, Hasegawa S, Manners G, Vandenberg T (eds) (2000) Inhibition of human breastcancer cells by Citrus limonoids. In: *Citrus Limonoids: Functional Chemicals in Agriculture and Foods*. ACS Symposium series, 758. pp.164-174.
- Hall TA (1999) BioEdit: a user-friendly biological sequence alignment editor and analysis program for Windows 95/98/NT. Nucleic Acids Symposium Series 41:95-98.
- Hao DC, Chen SL, Xiao PG (2010) Sequence characteristics and divergent evolution of the chloroplast *psbA-trnH* noncoding region in gymnosperms. Journal of Applied Genetics 51 (3):259-273.
- Hebert PD, Cywinska A, Ball SL, deWaard JR (2003a) Biological identifications through DNA barcodes. Proceedings Biological sciences - The Royal Society 270 (1512):313-321.
- Hebert PD, Ratnasingham S, deWaard JR (2003b) Barcoding animal life: cytochrome c oxidase subunit 1 divergences among closely related species. Proceedings Biological sciences / The Royal Society 270 Suppl 1:S96-99.
- Hebert PD, Stoeckle MY, Zemlak TS, Francis CM (2004a) Identification of Birds through DNA Barcodes. Plos Biology 2 (10): e312.
- Hebert PD, Penton EH, Burns JM, Janzen DH, Hallwachs W (2004b) Ten species in one: DNA barcoding reveals cryptic species in the neotropical skipper

- butterfly *Astraptes fulgerator*. Proceedings of the National Academy of Sciences of the United States of America 101 (41):14812-14817.
- Heinrich M, Gibbons S (2001) Ethnopharmacology in drug discovery: an analysis of its role and potential contribution. Journal of Pharmacy and Pharmacology 53:425–432.
- Hilu KW, Borsch T, Muller K, Soltis DE, Soltis PS, Savolainen V, Chase MW, Powell MP, Alice LA, Evans R, Sauquet H, Neinhuis C, Slotta TA, Rohwer JG, Campbell CS, Chatrou LW (2003) Angiosperm phylogeny based on *matK* sequence information. American Journal of Botany 90 (12):1758-1776.
- Hilu KW, Alice LA (1999) Evolutionary implications of *matK* indels in Poaceae. American Journal of Botany 86(12):1735-1741.
- Hilu KW, H. L (1997) The Matk gene: sequence variation and application in plant systematics. American Journal of Botany 84:830-839.
- Hogg ID, Hebert PDN (2004) Biological identification of springtails (Hexapoda: Collembola) from the Canadian Arctic, using mitochondrial DNA barcodes. Canadian Journal of Zoology 82:749–754.
- Hollingsworth PM, Graham SW, Little DP (2011) Choosing and using a plant DNA barcode. PloS one 6 (5):e19254.
- Hollingsworth MP, Forrest LL, Spouge LJ, Hajibabaei M, Ratnasingham S, van der Bank M, Chase WM, Cowan SR, et al(2009) A DNA barcode for land plants. Proceedings of the National Academy of Sciences of the United States of America 106 (31):12794-12797.
- Hull DL (ed) (1977) The ontological status of species as evolutionary units. In: Foundational Problems in the Special Sciences. D. Reidel Publishing Company, Dordrecht, Holland.
- Ingvarsson PK, Ribstein S, Taylor DR (2003) Molecular evolution of insertions and deletion in the chloroplast genome of *Silene*. Molecular Biology and Evolution 20 (11):1737-1740.
- Jeanson ML, Labat JN, Little DP (2011) DNA barcoding: a new tool for palm taxonomists? Annals of Botany 108:1445-1451.

- Jena SN, Kumar S, Nair NK (2009) Molecular phylogeny in Indian *Citrus* L. (Rutaceae) inferred through PCR-RFLP and *trnL-trnF* sequence data of chloroplast DNA. *Scientia Horticulturae* 119 (4):403–416.
- Joshi CP, Nguyen HT (1993) Application of the random amplified polymorphic DNA technique for the detection of polymorphism among wild and cultivated tetraploid wheats. National Research Council Canada 36 (3):602-609.
- Kala CP, Dhyani PP, Sajwan BS (2006) Developing the medicinal plants sector in northern India: challenges and opportunities. *Journal of Ethnobiology and Ethnomedicine* 2:32.
- Kanjilal UN, Kanjilal PC, Das A, De RN, Bor NL (1934-1940) Flora of Assam, vol 3. Government Press, Shillong.
- Kavishankar GB, Lakshmidevi N, Murthy SM, Prakash HS, Niranjana SR (2011) Diabetes and medicinal plants-A review International Journal of Pharmaceutical and Biomedical Research 2 (3):65-80.
- Kikkawa HS, Sugita R, Matsuki R, Suzuki S (2010) Potential utility of DNA sequence analysis of long-term-stored plant leaf fragments for forensic discrimination and identification. *Analytical sciences : the international journal of the Japan Society for Analytical Chemistry* 26 (8):913-916.
- Kool A, de Boer HJ, Kruger A, Rydberg A, Abbad A, Bjork L, Martin G (2012) Molecular identification of commercialized medicinal plants in southern Morocco. *Plos One* 7 (6):e39459.
- Kress WJ, Erickson DL (2012) DNA barcodes: methods and protocols. *Methods in Molecular Biology* 858:3-8.
- Kress WJ, Erickson DL, Jones FA, Swenson NG, Perez R, Sanjur O, Bermingham E (2009) Plant DNA barcodes and a community phylogeny of a tropical forest dynamics plot in Panama. *Proceedings of the National Academy of Sciences of the United States of America* 106 (44):18621-18626.
- Kress WJ, Wurdack KJ, Zimmer EA, Weigt LA, Janzen DH (2005) Use of DNA barcodes to identify flowering plants. *Proceedings of the National Academy of Sciences of the United States of America* 102 (23):8369-8374.

- Kumar S, Jena JN, Nair NK (2010) ISSR polymorphism in Indian wild orange (*Citrus indica* Tanaka, Rutaceae) and related wild species in North-east India. *Scientia Horticulturae* 123:350–359.
- Lahaye R, van der Bank M, Bogarin D, Warner J, Pupulin F, Gigot G, Maurin O, Duthoit S, Barraclough TG, Savolainen V (2008) DNA barcoding the floras of biodiversity hotspots. *Proceedings of the National Academy of Sciences of the United States of America* 105 (8):2923–2928.
- Lakshmikumaran M, Bhatia S (1998) DNA fingerprinting of medicinal plants. In: Intellectual Property Rights. In: Rajiv Gandhi Institute for Contemporary studies. B.R. Publishing Corporation, Delhi.
- Leeuwenberg AJM (1994) Taxa of the Apocynaceae above the genus level. Series of revisions of Apocynaceae, XXXVIII Wageningen Agricultural University Papers 94 (3):45–60.
- Li Y, Ruan J, Chen SS, J., Luo K, Lu D, Yao H (2010) Identification of cortex herbs using the DNA barcode *nrITS2*. *Journal of Medicinal Plants Research* 4 (24):2706–2709.
- Liede S, Meve U, Täuber A (2002) What is the subtribe Glossonematinae (Apocynaceae: Asclepiadoideae)? A phylogenetic study based on cpDNA spacer. *Botanical Journal of the Linnean Society* 139:145–158.
- Liu J, Provan J, Gao L, Li D (2012) Sampling Strategy and Potential Utility of Indels for DNA Barcoding of Closely Related Plant Species: A Case Study in *Taxus*. *International Journal of Molecular Sciences* 13 (7):8740–8751.
- Liu Y, Zhang L, Liu Z, Luo K, Chen S, Chen K (2012) Species identification of Rhododendron (Ericaceae) using the chloroplast deoxyribonucleic acid *psbA-trnH* genetic marker. *Pharmacognosy Magazine* 8:29–36.
- Lou SK, Wong KL, Li M, But PP, Tsui SK, Shaw PC (2010) An integrated web medicinal materials DNA database: MMDBD (Medicinal Materials DNA Barcode Database). *BMC genomics* 11:402.
- Luo K, Chen S, Chen K, Song J, Yao H, Ma X, Zhu Y, Pang X, Yu H, Li X, Liu Z (2010) Assessment of candidate plant DNA barcodes using the Rutaceae family. *Science China Life Sciences* 53 (6):701–708.

- Mahadani P, Devi KM, Das MM, Chakraborty M, Rahman F, Hansa J, Ghosh SK (2012) Bioinformatics in DNA barcoding. In: Ghosh SK (ed.) A text book on DNA barcoding. Book Space Kolkata, pp 105-136.
- Mahadani P, Ghosh SK (2013a) DNA Barcoding: A tool for species identification from herbal juices. *DNA Barcodes* 1:35-38.
- Mahadani P, Sharma GD, Ghosh SK (2013b) Identification of Ethnomedicinal plants (Rauvolfioideae: Apocynaceae) through DNA Barocding from Northeast India. *Pharmacognosy Magazine* (In Press).
- Mahmood T, Iqbal A, Nazar N, Naveed I, Abbasi BH, Naqvi SMS (2011) Assessment of genetic variability among selected species of Apocynaceae. *Biologia* 66 (1):64-67.
- Maia VH, Mata CS, Franco LO, Cardoso MA, Cardoso SR, Hemerly AS, Ferreira PC (2012) DNA barcoding Bromeliaceae: achievements and pitfalls. *PloS One* 7 (1):e29877.
- Middleton DJ (1996) Ecua, a new genus of Apocynaceae from Malesia. *Blumea* 41:33-35
- Middleton DJ (1995) Baharuia, a new genus of Apocynaceae from Malesia. *Blumea* 40: 443-447.
- Moqbel FS, Naik PR, Nazma HM, Selvraj S (2011) Antidiabetic properties of Hibiscus rosa sinensis L. leaf extract fractions on non obese diabetic (NOD) mouse. *Indian Journal of Experimental Biology* 49:21-29.
- Morales JF (1999) Hylaea (Apocynaceae-apocynoideae), a new genus from South America. *Novon* 9:83–35.
- Mukherjee PK, Wahile A (2006) Integrated approaches towards drug development from Ayurveda and other systems of medicines. *Journal of Ethnopharmacology* 103:25-35.
- Mullis KB, Falloona FA (1987) Specific synthesis of DNA in vitro via a polymerase-catalyzed chain reaction. *Methods in Enzymology* 155:335-350.
- Muralidharan K, Wakeland EK (1993) Concentration of primer and template qualitatively affects products in random-amplified polymorphic DNA PCR. *BioTechniques* 14 (3):362-364.

- Murray MG, Thompson WF (1980) Rapid isolation of high molecular weight plant DNA. Nucleic Acids Research 8 (19):4321-4325.
- Nayak S, Nalabothu P, Sandiford S, Bhogadi V, Adogwa A (2006) Evaluation of wound healing activity of *Allamanda cathartica*. L. and *Laurus nobilis*. L. extracts on rats. BMC Complementary and Alternative Medicine 6:12.
- Newmaster SG, Ragupathy S (2010) Ethnobotany genomics - discovery and innovation in a new era of exploratory research. Journal of Ethnobiology and Ethnomedicine 6:2. doi:10.1186/1746-4269-6-2.
- Newmaster SG, Fazekas AJ, Steeves RA, Janovec J (2008) Testing candidate plant barcode regions in the Myristicaceae. Molecular Ecology Resources 8 (3):480-490.
- Ng CC, Chang CC, Wu IC, Kotwal S, Shyu YT (2006) Rapid molecular identification of freshly squeezed and reconstituted orange juice. International Journal of Food Science & Technology 41:646-651.
- Paterson AH, DeVerna JW, Lanini B, Tanksley SD (1990) Fine mapping of quantitative trait loci using selected overlapping recombinant chromosomes, in an interspecies cross of tomato. Genetics 124 (3):735-742.
- Paterson AH, Lander ES, Hewitt JD, Peterson S, Lincoln SE, Tanksley SD (1988) Resolution of quantitative traits into Mendelian factors by using a complete linkage map of restriction fragment length polymorphisms. Nature 335 (6192):721-726.
- Penjor T, Anai T, Nagano Y, Matsumoto R, Yamamoto M (2010) Phylogenetic relationships of Citrus and its relatives based on *rbcL* gene sequences. Tree Genetics & Genomes 6:931-939.
- Perumal Samy R, Pachiappan A, Gopalakrishnakone P, Thwin MM, Hian YE, Chow VT, Bow H, Weng JT (2006) In vitro antimicrobial activity of natural toxins and animal venoms tested against *Burkholderia pseudomallei*. BMC Infectious Diseases 6:100.
- Potgieter K, Albert VA (2001) Phylogenetic relationships within Apocynaceae sens. lat. Based on *trnL* intron and *trnL-F* spacer sequences and propagule characters. Annals of the Missouri Botanical Garden 88:523–549.

- Puranik N, Kammar KF, Devi S (2010) Anti-diabetic activity of *Tinospora cordifolia* (Wild.) in streptozotocin diabetic rats; does it act like sulfonylurea? Turkish Journal of Medical Sciences 40 (2):265-270.
- Rabe T, Staden JV (1997) Antibacterial activity of South African plants used for medicinal purposes. Journal of Pharmacology 56:81-87.
- Ragupathy S, Newmaster SG, Murugesan M, Balasubramaniam V (2009) DNA barcoding discriminates a new cryptic grass species revealed in an ethnobotany study by the hill tribes of the Western Ghats in southern India. Molecular Ecology Resources 9 Suppl s1:164-171.
- Ram L, Singh S (2006) Medicinal importance of *Citrus* products and by-products - A review. Agricultural Review 27 (3):170-180.
- Ratnasingham S, Hebert PD (2007) bold: The Barcode of Life Data System (<http://www.barcodinglife.org>). Molecular Ecology Notes 7 (3):355-364.
- Ravishankar B, Shukla VJ (2007) Indian Systems of Medicine: A Brief Profile African Journal of Traditional, Complementary and Alternative Medicines 4 (3):319-337.
- Rowinsky EK, Onetto N, Canetta RM, Arbuck SG (1992) Taxol the 1st of the taxanes, an important new class of antitumor agents. Seminars in Oncology 19:646-662.
- Roy S, Tyagi A, Shukla V, Kumar A, Singh UM, Chaudhary LB, Datt B, Bag SK, Singh PK, Nair NK, Husain T, Tuli R (2010) Universal plant DNA barcode loci may not work in complex groups: a case study with Indian berberis species. Plos One 5 (10):e13674.
- Saitou N, Nei M (1987) The neighbor-joining method: a new method for reconstructing phylogenetic trees. Molecular Biology and Evolution 4 (4):406-425.
- Sambrook JF, Russell DW (2001) Molecular Cloning: A Laboratory Manual. Cold Spring Harbor Laboratory Press, Cold Spring.
- Samec P (1993) DNA polymorphism and RAPD technology. Priloha Casopisu Genetika a Slechteni 29:291-320.
- Schierenbeck KA, Skupski M, Lieberman D, Lieberman M (1997) Population structure and genetic diversity in four tropical trees in Costa Rica. Molecular Ecology 6:137-144.

- Selvaraj D, Sarma RK, Sathishkumar R (2008) Phylogenetic analysis of chloroplast *matK* gene from Zingiberaceae for plant DNA barcoding. Bioinformation 3 (1):24-27.
- Sennblad B, Endress M, Bremer B (1998) Morphology and molecular data in phylogenetic fraternity: the tribe Wrightieae (Apocynaceae) revisited. American Journal of Botany 85 (8):1143.
- Shah BN, Seth AK, Maheshwari KM (2011) A Review on Medicinal Plants as a Source of Anti-inflammatory Agents. Research Journal of Medicinal Plant 5:101-105.
- Shah BN, Bhatt SP, Jalalpure SS, Seth AK (2007) The anti-inflammatory activity of the leaves of *Colocasia Esculenta*. Saudi Pharmaceutical Journal 15:228-232.
- Shah MB, Chauhan G (eds) (1996) In Supplement to Cultivation & utilization of Medicinal Plants. RRL(CSIR), Jammu-Tawi.
- Shao H, Zhang L, Lv HF, Zhou JY, Hu ZB, Li WK (2010) The utility of *trnH-psbA* gene for phylogenetic analysis of Huperziaceae and plant barcoding. Journal of Chinese Medicinal Materials 33 (1):18-21.
- Simoes AO, Livshultz T, Conti E, Endress ME (2007) Phylogeny and systematic of the Rauvolfioideae (Apocynaceae) based on molecular and morphological evidence. Annals of the Missouri Botanical Garden 94:268–297.
- Singh HK, Parveen I, Raghuvanshi S, Babbar SB (2012) The loci recommended as universal barcodes for plants on the basis of floristic studies may not work with congeneric species as exemplified by DNA barcoding of *Dendrobium* species. BMC Research Notes 5:42.
- Sites JWJ, Crandall KA (1997) Testing species boundaries in biodiversity studies. Conservation Biology 11:1289-1297.
- Smith MA, Fisher BL, Hebert PD (2005) DNA barcoding for effective biodiversity assessment of a hyperdiverse arthropod group: the ants of Madagascar. Philosophical transactions of the Royal Society of London Series B, Biological sciences 360 (1462):1825-1834.

- Spooner DM (2009) DNA barcoding will frequently fail in complicated groups: An example in wild potatoes. American Journal of Botany 96 (6):1177-1189.
- Srirama R, Senthilkumar U, Sreejayan N, Ravikanth G, Gurumurthy BR, Shivanna MB, Sanjappa M, Ganeshiah KN, Shaanker RU (2010) Assessing species admixtures in raw drug trade of *Phyllanthus*, a hepatoprotective plant using molecular tools. Journal of Ethnopharmacology 130 (2):208-215.
- Srivastava GN, Srivastava AK (1988) Pharmacognosy of *Catharanthus roseus* (L.) G. Don (Sadabahar) Root and its Adulterants. Pharmaceutical Biology 26 (1):33-44.
- Srivastava VK, Singh BM (1996) Indian aloe in Supplement to cultivation and utilization of medicinal plants. RRL(CSIR), Jammu-Tawi.
- Stoeckle MY, Gamble CC, Kirpekar R, Young G, Ahmed S, Little DP (2011) Commercial teas highlight plant DNA barcode identification successes and obstacles. Scientific Reports 1:42.
- Strochova H, Olson MS (2007) The architecture of the chloroplast *psbA-trnH* non coding region in angiosperms. Plant Systematic Evolution 268:235-256.
- Studier JA, Keppler KJ (1988) A note on the neighbor-joining algorithm of Saitou and Nei. Molecular Biology and Evolution 5 (6):729-731.
- Sucher NJ, Hennell JR, Carles MC (2012) DNA fingerprinting, DNA barcoding, and next generation sequencing technology in plants. Methods in Molecular Biology 862:13-22.
- Sui XY, Huang Y, Tan Y, Guo Y, Long CL (2011) Molecular authentication of the ethnomedicinal plant *Sabia parviflora* and its adulterants by DNA barcoding technique. Planta Medica 77 (5):492-496.
- Sun XQ, Zhu YJ, Guo JL, Peng B, Bai MM, Hang YY (2012) DNA barcoding the *Dioscorea* in China, a vital group in the evolution of monocotyledon: use of *matK* gene for species discrimination. Plos One 7 (2):e32057.
- Sun Z, Chen S (2013) Identification of cortex herbs using the DNA barcode nrITS2. Journal of Natural Medicines 67(2):296-302.

- Tamura K, Dudley J, Nei M, Kumar S (2007) MEGA4: Molecular Evolutionary Genetics Analysis (MEGA) software version 4.0. *Molecular Biology and Evolution* 24 (8):1596-1599.
- Tautz D, Arctander P, Minelli A, Thomas RH, Vogler AP (2003) A plea for DNA taxonomy. *Trends in Ecology and Evolution* 18:70-74.
- Thompson JD, Gibson TJ, Plewniak F, Jeanmougin F, Higgins DG (1997) The CLUSTAL_X windows interface:flexible strategies for multiple sequence alignment aided by quality analysis tools. *Nucleic Acids Research* 25 (24):4876-4882.
- Thompson JD, Higgins DG, Gibson TJ (1994) CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice. *Nucleic Acids Research* 22 (22):4673-4680.
- Tulsieram LK, Glaubitz JC, Kiss G, Carlson JE (1992) Single tree genetic linkage mapping in conifers using haploid DNA from megagametophytes. *Biotechnology* 10 (6):686-690.
- Vaidya AD, Devasagayam TP (2007) Current status of herbal drugs in India: an overview. *Journal of Clinical Biochemistry and Nutrition* 41 (1):1-11.
- Valentini A, Pompanon F, Taberlet P (2009) DNA barcoding for ecologists. *Trends in Ecology and Evolution* 24 (2):110-117.
- van Der Heijden R, Jacobs DI, Snoeijer W, Hallard D, Verpoorte R (2004) The *Catharanthus* alkaloids: pharmacognosy and biotechnology. *Current Medicinal Chemistry* 11 (5): 607-628.
- Vences M, Thomas M, Bonett RM, Vieites DR (2005) Deciphering amphibian diversity through DNA barcoding: chances and challenges. *Philosophical transactions of the Royal Society of London Series B, Biological sciences* 360 (1462):1859-1868.
- Verhoeven RL, Liede S, Endress ME (2003) The tribal position of Fockea and Cibirhiza (Apocynaceae:Asclepiadoideae): evidence from pollinium structure and cpDNA sequence data. *Grana* 42:70-81.
- Vischi M, Arzenton F, De Paoli E, Paselli S, Tomat E, Olivier AM (2006) Identification of wild species of sunflower by a specific plastid DNA sequence. *HELIA* 29 (45):11-18.

- Vos P, Hogers R, Bleeker M, Reijans M, van de Lee T, Hornes M, Frijters A, Pot J, Peleman J, Kuiper M, et al. (1995) AFLP: a new technique for DNA fingerprinting. *Nucleic Acids Research* 23 (21):4407-4414.
- Wallinger C, Juen A, Staudacher K, Schallhart N, Mitterrutzner E, Steiner EM, Thalinger B, Traugott M (2012) Rapid plant identification using species- and group-specific primers targeting chloroplast DNA. *Plos One* 7 (1): e29473.
- Wang W, Wu Y, Yan Y, Ermakova M, Kerstetter R, Messing J (2010) DNA barcoding of the Lemnaceae, a family of aquatic monocots. *BMC Plant Biology* 10:205.
- Ward RD, Zemlak TS, Innes BH, Last PR, Hebert PD (2005) DNA barcoding Australia's fish species. *Philosophical transactions of the Royal Society of London Series B, Biological sciences* 360 (1462):1847-1857.
- Whitlock BA, Hale AM, Groff PA (2010) Intraspecific inversions pose a challenge for the *trnH-psbA* plant DNA barcode. *Plos One* 5 (7):e11533.
- WHO (2005) National Policy on Traditional Medicine and Regulation of Herbal Medicines (Report of a WHO Global Survey). World Health Organization, Geneva.
- WHO (2002) WHO Traditional Medicine Strategy 2002–2005, World Health Organization, Geneva.
- Williams JGK, Kubelik AR, Livak KJ, Rafalski JA, Tingey SV (1990) DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic Acids Research* 18:6531-6535.
- Wilson EO (2003) The Encyclopedia of Life. *Trends in Ecology and Evolution* 18:77-80.
- Wong SK, Lim YY, Abdullah NR, Nordin FJ (2011) Antiproliferative and phytochemical analyses of leaf extracts of ten Apocynaceae species. *Pharmacognosy Research* 3 (2):100-106.
- Xiang XG, Hu H, Wang W, Jin XH (2011) DNA barcoding of the recently evolved genus *Holcoglossum* (Orchidaceae: Aeridinae): a test of DNA barcode candidates. *Molecular Ecology Resources* 11 (6):1012-1021.

- Xue CY, Li DZ (2011) Use of DNA barcode sensu lato to identify traditional Tibetan medicinal plant *Gentianopsis paludosa* (Gentianaceae). Journal of Systematics and Evolution 49 (3):267-270.
- Young ND, Zamir D, Ganal MW, Tanksley SD (1988) Use of isogenic lines and simultaneous probing to identify DNA markers tightly linked to the tm-2a gene in tomato. Genetics 120 (2):579-585.
- Zarucchi JL (1991) Quiotania: a new genus of Apocynaceae-Apocyneoideae from northern Colombia. Novon 1:33–36.
- Zhang J (2000) Rates of conservative and radical nucleotide substitutions in mammalian genes. Journal of Molecular Evolution 50:56-68.