**Supplementary Table 1: List of the next generation sequencing tools used for transcriptomics in various plants.**

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| --- | --- | --- | --- | --- | --- |
| **Botanical Name** | **Plant parts used** | **NGS Tools** | **Total data generated** | **Therapeutic Potential of Plants** | **References** |
| *Terminalia arjuna* (Arjun) | Bark | Illumina NextSeq500 | 131 million reads | Used for anginal pain, congestive heart, hypertension | Srivastava et al., 2020 |
| *Aconitum**heterophyllum* (Atis) | Roots andShoots | Solexa/Illumina | Root-23.8 GBShoot-14.8GB | Used for diarrhea, urinary infections (UTI), and inflammation | Pal et al., 2015 |
| *Azadirachta indica* (Neem) | Fruit and Leaf | PacBio SMRT/Illumina *HiSeq*2000 | 12 Gb | Used for leprosy, eye disorders, bloody nose | Rajakani et al., 2014 |
| *Andrographis paniculata* (Kalmegh) | Leaf and root | Illumina *HiSeq*2000 | Leaf-69,011 and root- 64,244 | Used in cancer, diabetes, and high blood pressure | Cherukupalli et al., 2016 |
| *Arabidopsis lyrata* (Lyrate rockcress) | Whole plant | Sanger | 96% data obtained  | Specially leaves are used for vegetable and salads | Rawat et al., 2015 |
| *Arabidopsis thaliana* (Thale cress) | Whole plant | Sanger, 454, Illumina | 96% data obtained  | Provide specific defense mechanisms of plant-pathogen resistance | Desikan et al., 2001 |
| *Artemisia annua* (Sweet Wormwood) | Trichome | Illumna *HiSeq* 4000 | 266.7 million | Malaria and related symptomes (fever, chills) | Wang et al., 2009 |
| *Artemisia tridentate* (Big sagebrush) | Leaf | Roche 454, Illumina | 823,392 sequence reads and 695 SNP position | Use for firewood | Prabin., 2011 |
| *Asparagus racemosus* (Satawar) | Leaf and root | Illumina GAII Analyzer/454 GS FLX/5500 SOLiD | Leaf- 6.79 Gb and root- 7.43 Gb | Used in stomach related problems | Upadhyay et al., 2014 |
| *Azadirachta indica* (Neem) | leaf and fruit | Roach 454 | Leaf-273.8 MbFruit-220 Mb | For leprosy, eye, stomach problems, and bloody nose, intestinal worms | Krishnan et al., 2011 |
| *Benicasa hispida* (Wax Gourd) | Leaf, flowers, fruits, and stems | Illumina | 4 Gb | It is used laxative, diuretic, tonic, aphrodisiac, cardiotonic, and menstrual disorders | Jiang et al., 2013 |
| Ramie (*Boehmeria nivea*)(Chinese Grass) | Leaf and root | Illumina *HiSeq* 2000 | 40.2 and 62.8 million reads | Threatened abortions, colic of pregnancy, and leucorrhoea, impetigo | Touming et al., 2014 |
| *Brachypodium**Distachyon* (Purple false brome) | Leaf and stem | Sanger | 90 % reads | Experimental model organism for understanding  | Priest., 2014 |
| *Bupleurum chinense* (Bupleurum) | Roots | Roche 454 | 195, 088 high-quality reads | Treating fatty liver disease | Sui et al., 2011 |
| *Camelina sativa* (False flax) | Flower and Leaf | Illumina | 98 % reads  | Used edible oil and biodiesel form | Kagale et al., 2014 |
| *Cyanotis arachnoidea* (Grass of the Dew) | Leaf and root | Illumina *HiSeq*2500 | 86.5 million clean reads | Cure the rheumatic infections | Xiu et al., 2018 |
| *Camptotheca acuminata* (Happy Tree) | Leaves | Illumina *HiSeq*2500 | Leaf-45,368,044 and root-41,095,316 clean reads | Particularly used for cancer patients | Sun et al., 2011 |
| *Cananga odorata* (Kenanga**)** | Flower | Illumina | 110 million reads | Used in malaria, stomach ailments, and asthma | Jin et al., 2015 |
| *Cassia angustifolia* (Alexandrian senna) | Young and mature leaf | Illumina | 6.34 Gb | Used for laxative | Reddy et al., 2015 |
| *Catharanthus roseus* (Bright eyes) | Leaf, roots, Cell suspensions, shoot | Illumina *Hiseq* 2000 | 32,891,528,340 nt bases | Use for relieving muscle pain, depression of the central nervous system | Verma et al., 2014 |
| *Centella asiatica* (Gotu Kola) | Leaf | Illumina | 46,171,131 reads | Used to heal wounds, improve mental clarity, and treat skin conditions  | Sangwan et al., 2013 |
| *Chelidonium majus* (Celandine) | Stem | Illumina *HiSeq* 2000 | 188.98 million reads | Used to improve eyesight and whooping cough, asthma, and jaundice | Nawrot et al., 2016 |
| *Chlorophytum borivilianum* (Safed musli) | Leaf | Illumina *HiSeq* 2000 | 33,963,356 high-quality reads | Leaves and roots are used for vegetable and health tonic form | Kalra et al., 2013 |
| *Cicer arietinum* (Chickpea) | Root and shoot | Roche 454 GS | 1.38 million reads | Antioxidant, antidiabetic, anti-inflammatory, antimicrobial | Garg et al., 2011 |
| *Cistanche deserticola* (Desert-broomrape) | Fleshy stem | Illumina *HiSeq*2000 | 80 million reads | Use in hormone regulation, antioxidative, anti-apoptotic, anti-nociceptive, anti-inflammatory, activities and the promotion of bone formation | Li et al., 2015 |
| *Conyza canadensis* (Horseweed) | Seed | Illumina *HiSeq* 2500 | 411 962 raw reads | Treatment of diarrhoea, dysentery, and internal haemorrhages | Peng et al., 2010 |
| *Costus pictus*(Painted Spiral Ginger) | Leaf | Illumina | 3.2Gb | For its tonic, stimulant, and antiseptic properties | Annadurai et al., 2012 |
| *Dendrobium officinale* (Orchid) | Stem | Illumina | 86 million reads | Nourishing the stomach, enhancing production of body fluids or nourishing Yin | Guo et al., 2013 |
| *Dianthus caryophyllus* (Carnation) | Flower bud, flower | Roche 454 | 1,162,126 high-quality reads | To treat coronary and nervous disorders | Tanase et al., 2012 |
| *Digitalis purpurea* (Foxglove) | Leaf, stem, flower, root | Roche 454 | 66103 high-quality reads | Used for heart related problems  | Wu et al., 2012 |
| *Epimedium sagittatum* (Horny goat weed) | Leaf | Roche 454 | 55 million | Used for hay fever, sexual dysfunctions | Zeng et al., 2010 |
| *Euphorbia fischeriana* (S*purge)* | Roots | Illumina *HiSeq*2000 | 9,6481,893 raw reads | Dyspepsia, abdominal distension, abdominal pain, cough, scabies, tuberculosis of lymph nodes | Barrero et al., 2011 |
| *Fraxinus americana*(White ash) | Phloem plug | Roche 454 | 58,673 high quality reads | Used for starting fires and barbecues, and is usable for maintaining a fire | Bai et al., 2011 |
| *Glycine max* (Soya bean) | Seed | Illumina *HiSeq*™ 2000 | 88,643 transcripts | Salad oil and for manufacture of margarine | Severin et al., 2010 |
| *Gastrodia elata* (Tianma) | Vegetative propagation corms, Juvenile tuber | Illumina *HiSeq*™ 2000 | 179.1 Gb raw sequencing reads | It is used for headache, dizziness, spasm, epilepsy, stoke, etc. | Tsai et al., 2016 |
| *Gynostemma pentaphyllum* (Jiaogulan) | Root, leaves | Roche 454 | 352,999,296 original reads | High cholesterol, high blood pressure, and improving heart function | Subramaniyam et al., 2011 |
| *Ginkgo biloba* | root, stem, leaf, microstrobilus, ovulate strobilus, immature fruit, and mature fruit | PacBio Iso-Seq | 23.36 Gb of clean reads | Alzheimer's disease, Anxiety, Asthma, Bronchitis | Ye et al., 2019 |
| *Huperzia serrate* (Toothed clubmoss) | Leaves | Illumina *HiSeq*4000 | 40.1 Gb of clean data | Dietary supplement to improve brain function | Luo et al., 2010 |
| *Jatropha curcas* (Barbados nut) | Vegetative | Illumina *HiSeq* 2500 | 64,235 reads | Bacterial and fungal infections or febrile diseases, muscle pain or jaundice | Gangwar., 2020 |
| *Litsea cubeba*(Aromatic litsea) | Flower, leaf, and fruit | Illumina | 160.88 Gb | Antibacterial, Anti-inflammatory, and improve heart health | Han et al., 2013 |
| *Macleaya cordata* (Plume poppy) | Roots, leaves and fruits | Illumina *HiSeq*2000 | 6.02 Gb | Analgesic, antioedema, carminative, depurative and diuretic | Zeng et al., 2013 |
| *Piper nigrum* (Black pepper) | Fruit, root | Illumina, SOLiD | 13.27G of raw sequence data | Kill fungi and parasites, and help the body absorb some drugs | Sheila et al., 2012 |
| *Trachyspermum ammi* (Ajwain) | Different inflorescence tissue | *HiSeq*2000 platform | 43,056,120 and 42,260,830 of high-quality reads | Used for abdominal related problems, and asthma  | Howyzeh et al., 2018 |
| *Withania somnifera* (Ashwagandha) | Root and leaf | Roche 454-GS FLX | 249 million high-quality reads | Used for hypertension, stress, asthma, arthritic diseases | Gupta et al., 2013 |
| *Xanthium strumarium* (Rough cocklebur) | Leaf | Illumina | 157 million clean reads | Used for laxative, fattening, digestive, antipyretic, and diuretic | Fan et al., 2015 |
| *Triticum aestivum* (Wheat) | Seeds and Stem | Illumina *HiSeq* 2000 | 97,155,472 reads | Flour and breadstuffs | Liu et al., 2016 |
| *Oryza sativa* (Rice) | Seeds and Stem | Illumina *HiSeq* 2000 | 39.73 Gb | Ash for discharges and wounds, sapraemia in Malaria infusion of straw for dysentery, gout, and rheumatism | Sun et al., 2019 |
| *Zea mays* (Maize) | Seeds | Illumina *HiSeq* 2000 | 8~10 million raw reads | Used for bladder infections, kidney stones, and bedwetting | Wu et al., 2017 |
| *Hordeum vulgare* (Barley) | Seeds | Illumina *HiSeq* 2000 | 208 million clean reads | Used for soups, stews | Tombuloglu et al., 2015 |
| *Sorghum bicolor* (Sorghum) | Seeds | Illumina *HiSeq* 2000 | 31 to 39 million quality reads | Used for food, feed | Dugas et al., 2011 |
| *Pennisetum glaucum* (Pearl millet) | Seeds | Illumina *Hiseq*  | 139.1 million reads | Used for making gluten-free cereal-based products | Dudhate et al., 2018 |
| *Eleusine coracana* (Ragi) | Seeds | Illumina NextSeq 500 | 44,861,506 million reads | Remedy for leprosy, liver disease, measles, pleurisy, pneumonia, and smallpox | Parvathi et al., 2019 |
| *Amorphophallus bulbifer* (Devil's Tongue) | Leaf | Illumina | 54,986,020 reads and 52,334,098 reads | Used for tumour-suppression, phlegm liquefaction, and blood stasis alleviation  | Zheng et al., 2013 |
| *Mangifera Indica* (Mango) | Fruit | Illumina *HiSeq*™ 2500 | 400 million reads | Astringent, diaphoretic, stomachic, anaemia, asthma, bronchitis, cough, hypertension, insomnia, rheumatism, toothache, leucorrhoea | Tafolla-Arellano et al., 2017 |
| *Psidium guajava*(Guava) | Fruit | Illumina *HiSeq*2500 | 20 million raw reads | Inflammation, diabetes, hypertension, caries, wounds, lung diseases, and ulcers | Mittal et al., 2020 |
| *Musa paradisiaca* (Banana) | Fruit | Illumina *HiSeq* 2500 | 89.30% of total reads | Used for low levels of potassium in the blood (hypokalemia), constipation, and diarrhea | Kaur et al., 2021 |
| *Actinidia chinensis* (kiwifruits) | Fruit | Illumina | 305.24 Gb | Asthma, constipation, high blood pressure | Hill et al., 2015 |
| *Malus domestica* (Apple) | Fruit | Illumina *HiSeq* 2000 | 327.5 million reads | Rich in fibre, vitamins, and minerals | El-Sharkawy et al.,2015 |
| *Ficus carica* (Fig) | Fruit | Illumina *HiSeq* 4000 | 32,429,280clean reads | Constipation, diarrhea, diabetes, high cholesterol, and skin conditions | Wang et al., 2017 |
| *Cistus creticus* (Cretan Rockrose) | Trichomes | Sanger | - | Used internally in the treatment of catarrh and diarrhoea and as an emmenagogue | Vasiliki et al., 2008 |
| *Citrullus lanatus* (Watermelon) | Fruit flesh | Roche 454 | 80.6 Gb | Used as purgative and emetic in high dose, vermifuge, demulcent, diuretic, and tonic | Zhang et al., 2015 |
| *Citrus clementine* (orange) | Leaf | Sanger | 140.7 Gb | Rich in antioxidants, which help reduce inflammation | Marco et al., 2012 |
| *Morus alba* (Mulberry) | Fruit | Illumina *HiSeq*™ 2500 | 33.77–74.56 million reads | Used for heart related problem  | Huang et al., 2020 |
| *Ananas comosus* (Pineapple) | Fruit | Illumina *HiSeq*™ 2500 | 149 GB | Rich in vitamin C and anti-inflammatory and pain-relieving properties | Qi et al., 2018 |
| *Vitis vinifera* (Grapea) | Fruit | Illumina NovaSeq 6000 | 0.83 billion clean reads | Nutrients, antioxidants, and powerful plant compounds | Crystal et al., 2012 |
| *Punica granatum* (Pomegranate) | Fruit | Illumina *HiSeq*X Ten | 106.27 Gb | Effective in preventing prostate, breast, lung, and colon cancers | Fang- fang et al., 2021 |
| *Citrullus lanatus* (Watermelon) | Fruit | Illumina *HiSeq* 2000 | 321.8 million high quality | Used as purgative and emetic in high dose, vermifuge, demulcent, diuretic, and tonic | Guo., 2015 |
| *Aegle marmelos* (Bel) | Fruit | Illumina *HiSeq* 2500 | 49.58 million raw reads | Dropsy, bleeding piles, dysentery, diarrhea | Kaushik et al., 2019 |
| *Tectona grandis* (Teak) | Wood | Illumina *MiSeq*TM 2000 | 3,778,316 reads | Used for boat building, exterior construction, veneer, furniture, carving, turnings, and other small wood projects | Diningrat et al., 2015 |
| *Dalbergia sissoo* (Sheesham) | Wood | Illumina *HiSeq*4000 | 71 to 180 million paired end reads | Used for the treatment of obesity, vitiligo, fever, non-healing wounds, ulcers, intestinal parasites | Tin et al., 2020 |
| *Hevea brasiliensis* (rubber tree) | Leaf and Latex | Illumina *HiSeq* 2000 | 4.00 G | Cured rubber used for all types of rubber products | Liu et al., 2015 |
| *Corchorus olitorius*(Jute) | Stem and ribbon | Illumina *HiSeq*X Ten | 608,395,184 raw reads | Fabrics for packaging a wide range of agricultural | Zemao et al., 2017 |
| *Gossypium hirsutum* (Cotton) | Seeds and bolls | Illumina *HiSeq*4000 | 136.49 Gb | To make several textile products and oil. | Mingge et al., 2019 |
| *Linum usitatissimum* (Flax) | Seeds | Illumina NextSeq 500 | 16 million reads | Flax fibres are used to make linen and rope | Alexey et al., 2020 |
| *Bambusa vulgaris* (Bamboo) | Stem, seeds | Illumina | 2.075 Gb | Flooring, roofing designing, and, furniture | Biswas et al., 2016 |
| *Cocos nucifera* (Coconut) | Seed and fruit | Illumina *HiSeq*™ 2000 | 54.9 million reads | Used to treat diarrhoea | Fan et al., 2013 |
| *Agave sisalana* (Sisal) | leaves | Illumina *HiSeq*2500 | 276,845,790 reads | Used for rope and twine | Muhammad et al., 2019 |
| *Cannabis sativa* (Hemp) | seeds, stalks, roots and leaves | Illumina *HiSeq*3000 | 30 million reads | Rope, textiles, clothing, shoes, food, paper, bioplastics, insulation, and biofuel | Braich et al., 2019 |
| *Rosa indica* (Rose) | Flower | Illumina *HiSeq* 4000 | 168.97 GB | Ornamental plants grown for their flowers in the garden and sometimes indoors. | Tian et al., 2018 |
| *Hibiscus-roja-sinensis* (Gudhal) | Flower | 454 sequencing | 82.2Mb | Used in the treatment of excessive and painful menstruation, cystitis, venereal diseases, feverish illnesses, bronchial catarrh, coughs and to promote hair growth | Alice et al., 2016 |
| *Fritillaria cirrhosa* (Yellow Himalayan fritillary) | Bulb | Illumina | 150 million clean reads | Coughs, bronchitis, pneumonia, asthma, feverish illnesses, abscesses | Zhao et al., 2018 |
| *Tagetus erectus* (Marigold) | Flower | Illumina *HiSeq* 2000 | 21,795,753 clean reads | Used for digestive tract problems including poor appetite, gas, stomach pain, colic, intestinal worms, and dysentery | Ai et al., 2016 |
| *Jasminum sambac* (Mogra) | Flower | Illumina *HiSeq*2000 | 42 million reads | Used for anti-depressant, antiseptic, cicatrisant, aphrodisiac, and expectorant | Yong- Hua et al., 2015 |
| *Jasminium Dumort* (Jasmine/Chameli) | Flower | Illumina *HiSeq*2500 | 42 millionreads | Used to make jasmine tea, which often has a base of green tea or white tea | Li et al., 2015 |
| *Chrysanthemum nankingense* (East Asia) | Stems and leaves | Illumina *HiSeq*TM 2000 | 7.47 million | Used for high blood pressure, type 2 diabetes, fever, and cold | Wang et al., 2013 |
| *Nelumbo nucifera* (Lotus) | Flower | Illumina *HiSeq*TM 2000 | 348 million high-quality reads | Bleeding, cough, fever, liver and stomach problems, and other conditions | Mei et al., 2015 |
| *Lilium* (Lili) | Flower | Illumina *HiSeq*2500 | 29.24 Gb | Used in herbaceous borders, and shrub plantings, and as patio plants | Hu et al., 2017 |
| *Carthamus tinctorius* (Sunflower) | Flower | Illumina | 56,960,100 clean reads | Cultivated for vegetable oil and substitute for saffron | Lulin et al., 2012 |
| *Amsonia hubrichtii* (Hubricht's Bluestar) | Leaf | Roache 454-Illumina GA- | Roache 454 48.1% (715,432) and Illumina 63.2% (75,544,560 reads) | Butterfly Nectar Plant | Xiao et al., 2013 |
| *Abelmoschus esculentus* (Bhindi) | Fruits | Illumina *HiSeq* 2500 | 751,403,932 reads | Promotes Heart Health, Regulates Blood Sugar, Immunity, prevent anaemia, weight reduces, and beneficial in pregnancy | Shi et al., 2020 |
| *Allium cepa* (Onion) | Bulb, leaves,Root | Roche 454 | 16.3 Gb | Ailments like headaches, heart disease and mouth sores | Han et al., 2016 |
| *Allium sativum* (Garlic) | Bulb | Illumina | 15.9 Gb | Fight inflammation, reduce cholesterol levels, and protect against chronic disease | Mayer., 2015 |
| *Raphanus sativus* (Radish) | Root and leaf | Illumina *HiSeq*™ 2000 | 54.64 million clean reads | Consumed mainly as a salted vegetable and are also eaten fresh as grated radish, garnish, and salad | Nie et al., 2015 |
| *Daucus carota* (Carrot) | Root | Illumina *HiSeq*™ 2000 | 41.74-46.30 million clean reads | Used to prevent cancer, and for digestive health, obesity, other nutrient deficiencies | Geng et al., 2020 |
| *Capsicum annuum* (Chilli) | Berry-fruit | Illumina *HiSeq* 4000 | 39.86 million reads | Used in cooking, pickles, and chutney | Jie., 2016 |
| *Zingiber officinalis* (Ginger) | Rhizome | Illumina *HiSeq*™ 2500 | 19.22 GB | As a food flavouring and medicine | Yusong et al., 2017 |
| *Solanum tuberosum* (Potato) | Tuber | Illumina *HiSeq*X10 | 77.89 million paired end reads | Potatoes are a good source of fibre | Qing et al., 2020 |
| *Solanum lycopersicum* (Tomato) | Fruits | Illumina *HiSeq*™ 2500 | 564.8 million raw reads | Used for first aid treatment for burns, scalds, and sunburn | Zhan et al., 2018 |
| *Lagenaria siceraria* (Loki) | Fruits | Illumina *HiSeq* 2000 | 41,831,589 high quality reads | Used for diabetes mellitus, liver diseases, weight loss  | Zhang et al., 2018 |
| *Luffa acutangula* (Toari) | Fruits | Illumina NovaSeq 6000 | 19.51 Gb | Reducing inflammation, weight loss, controlling diabetes | Sun et al., 2022 |
| *Momordica charantia* (Karela) | Fruits | Illumina Genome Analyzer II | 15.06 GB | Gonorrhoea, measles, chicken pox, scabies, and malaria | Shukla et al., 2015 |
| *Cucurbita pepo* (Pumpkin) | Fruits | Illumina *HiSeq*™ 2000 | 17 Gb of clean paired end reads | Highly Nutritious and Particularly Rich in Vitamin A,High Antioxidant Content, and Vitamin A, Lutein and Zeaxanthin | Guo et al., 2018 |
| *Cucumis sativus* (Kheera) | Fruits | Illumina *HiSeq* 2500 | 7.7-41.4 million raw reads | Detoxifies, keep brain health, relieves constipation, keeps body cool |  Xiaolei et al., 2018 |
| *Artocarpus heterophyllus*(Jackfruit) | Fruits | Illumina *HiSeq* 2500 | 30 million clean reads | As food or as medicine | Hu et al., 2016 |
| *Capsicum annuum* (Chili Pepper) | Fruits | Illumina *HiSeq* 4000 | 39.86 million reads | Used for upsetting stomach, toothache, poor circulation, fever, hyperlipidaemia, and heart disease prevention | Ashrafi et al., 2012 |
| *Spinacia oleracea* (Palak) | Leaves | Illumina *HiSeq* 2500 | ∼100 Gb | Beneficial for skin, hair, and bone health. They also provide protein, iron, vitamins, and minerals | Chenxi et al., 2017 |
| *Trigonella foenum-graecum* (Methi) | Leaves | SOLiD 4 | 42 million high quality reads | Help in maintaining body weight or weight loss | Vaidya et al., 2013 |
| *Chenopodium album* (Bathua) | Leaf | Illumina *HiSeq*2000 | 6,991,000 Bp | Improve antioxidant properties and immunity, and rich in iron and potassium  | Su- Young et al., 2017 |
| *Coriandrum sativum* (Dhaniya) | Stem and leaf  | Illumina Next*Seq*500 | 43,746,120and 49,163,108 high-quality reads | Fragrant, antioxidant-rich herb | Choudhary et al., 2019 |
| *Amorphophallus konjac* (Devil's tongue) | Leaf | Illumina | 54,986,020 reads and 52,334,098 | Food source and as a traditional medicine | Gille., 2011 |
| *Ipomoea batatas* (Sweet potato) | Root | Illumina | ~208 and ~200 million reads | Diabetes, hypertension, dysentery, constipation, fatigue, arthritis, rheumatoid diseases, hydrocephaly, meningitis, kidney ailments, and inflammations | Wang et al., 2010 |
| *Beta vulgaris* (Beet root) | Root and leaf | Roche 454, Illumina *HiSeq*2000 and Sanger | 10.52 Gb | Improved blood flow, lower blood pressure, and increased exercise performance | Mutasa-Gottgens et al., 2012 |

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