**Supplementary Table 1: Plants and their secondary metabolites with reported antibacterial activity against various drug-resistant bacteria.**

| Plants | Reported secondary metabolites | Mechanism of action | Bacteria  | Assay method | Reference  |
| --- | --- | --- | --- | --- | --- |
| - | Caffeine **(I)** | QS inhibition | *P. aeruginosa*  | Chromobacterium violaceum CV026 biosensor (agar diffusion) | (Norizan et al., 2013) |
| - | Eugenol **(II)** | Reduce expression of major exotoxinAnti-biofilm activity | MRSA  | TNF release assay, hemolysin assay, RT-PCR analysis | (Yadav et al., 2015) |
| *Adansonia digitata* L. [Malvaceae] | PhenolsPolyphenolsSaponinsTanninsSterolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae*MDR *P. stuartii* | MIC & MBC model | (Djeussi et al., 2013) |
| *Adiantum capillus-veneris* L. [Pteridaceae] | - | Quorum quenching against *S. aureus* | MDR *E. faecium*MDR *S. aureus* | Broth microdilution testing, biofilm inhibition assay | (Khan et al., 2018) |
| *Aframomum alboviolaceum* (Ridl.) K.Schum. [Zingiberaceae] | AlkaloidsAnthocyaninsFlavonoidsPhenolsPolyphenolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae*MDR *P. stuartii* | MIC & MBC model | (Djeussi et al., 2013) |
| *Aframomum polyanthum* (K.Schum.) K.Schum. [Zingiberaceae] | AnthocyaninsPhenolsPolyphenolsSaponinsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumonia*MDR *P. stuartii* | MIC & MBC model | (Djeussi et al., 2013) |
| *Alkanna tinctoria* (L.) Tausch [Boraginaceae]  | AlkaloidsFlavonoidsCarbohydrates  | Efflux pump inhibition | *E. coli**A. baumannii* *P. aeruginosa* | MIC & MBC model | (Khan et al., 2015) |
| *Anogeissus acuminata* DC. [Combretaceae] | Anolignan BConocarpanDihydrodehydrodiconiferylalcohol\*AlkaloidsGlycosides TerpenoidsSaponinsTanninsFlavonoidsSteroids Anthraquinones | Anti-biofilm activity | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017) |
| *Anonidium mannii* (Oliv.) Engl. & Diels [Annonaceae] | AlkaloidsPhenolsPolyphenolsSaponinsTanninsSterolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae* | MIC & MBC model | (Djeussi et al., 2013) |
| *Artemisia absinthium* L. [Asteraceae] | - | Quorum quenching against *S. aureus* | MDR *S. aureus* | Broth microdilution testing, biofilm inhibition assay | (Khan et al., 2018) |
| *Azadirachta indica* A.Juss. [Meliaceae] | Mahmoodin\*ResinsGlycosidesTerpenoidsSaponinsSteroids | QS inhibitionAnti-biofilm activity | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method | (Vikram et al., 2010; Mishra et al., 2017) |
| *Bauhinia variegata* L. [Fabaceae] | Kaempferol\*AlkaloidsGlycosides SaponinsTanninsSteroidsAnthraquinones | Cell membrane disruption | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2013, 2017) |
| *Boerhavia diffusa* L. [Nyctaginaceae] | Ursolic acid\*AlkaloidsTanninsFlavonoidsSteroidsAnthraquinones | Disruption of cell wall permeability | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017) |
| *Persea lingue* (Ruiz & Pav.) Nees [Lauraceae] | Kaempferol **(III)** | NorA efflux pump inhibition | MRSA *P. aeruginosa*  | MIC model | (Holler et al., 2012) |
| *Callistemon citrinus* L. [Myrtaceae]  | Alkaloids  | Efflux pump inhibition | MRSA*P. aeruginosa*  | MIC model  | (Mabhiza et al., 2016) |
| *Chamaemelum nobile* (L.) All. [Asteraceae] | - | QS inhibition, anti-biofilm activity | *P. aeruginosa*  | MIC model, biofilm inhibition concentration (6.25–25 mg/mL)  | (Kazemian et al., 2015) |
| *Chelidonium majus* L. [Papaveraceae] | Sanguinarine **(IV)** | Prevent bacterial cell wall division | MRSA | MIC model (1.9 mg/mL) |  (Zielinska et al., 2019) |
| *Cinnamomum tamala* (Buch.-Ham.) T.Nees & C.H.Eberm. [Lauraceae] | Cinnamaldehyde **(V)** | Disruption of membrane integrity  | MDR *H. pylori* | *In-vitro* model | (Thapa et al., 2018)  |
| *Croton macrostachyus* Hochst. ex Delile [Euphorbiaceae] | Triterpenes Sterols, polyphenols Saponins  | Efflux pump inhibition  | MRSA | MIC & MBC by broth microdilution method | (Voukeng et al., 2016) |
| *Erythrina sigmoidea* Hua [Fabaceae] | Neobavaisoflavone\*AtalantoflavoneBidwillon ANeocyclomorucin6α-hydroxyphaseollidinSigmoidin I | ­- | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae*MDR *P. stuartii* |  | (Djeussi et al., 2015) |
| *Hibiscus sabdariffa* L. [Malvaceae] | AlkaloidsFlavonoidsPhenolsPolyphenolsSaponinsSterolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae*MDR *P. stuartii* | MIC & MBC model | (Djeussi et al., 2013) |
| *Kalanchoe blossfeldiana* Poelln. [Crassulaceae] | Methanolic extract | QS-mediated biofilm formation | *P. aeruginosa*  | MIC model, laser scanning microscopy | (Sarkar et al., 2015) |
| *Martynia annua* L. [Martyniaceae] | - | - | MDR *A. baumannii*MDR *E. faecium*MDR *K. pneumoniae*MDR *S. aureus* | Broth microdilution testing, biofilm inhibition assay | (Khan et al., 2018) |
| *Matricaria chamomilla* L. [Asteraceae] | - | - | MDR *E. coli*MDR *Klebsiella* spp.MDR *P. aeruginosa*MDR *P. mirabilis*MDR *S. aureus* | Agar well diffusion method, MIC & MBC model | (Atef et al., 2019) |
| *Moringa oleifera* Lam. [Moringaceae]  | AlkaloidsPolyphenolsFlaconoidsAnthraquinonesCoumarinsTanninsTriterpenesSterolsSaponins | - | MDR *E. coli*MDR *Klebsiella* spp.MDR *P. aeruginosa*MDR *P. mirabilis*MDR *S. aureus* | Agar well diffusion method, MIC &MBC model | (Atef et al., 2019) |
| *Ocimum basilicum* L. [Lamiaceae]  | Phytol **(VI)**Cadinene **(VII)** | Induction of oxidative stress | *A. baumannii* *E. coli*  | MIC by broth microdilution technique  | (De Assis et al., 2018) |
| *Ocimum gratissimum* L. [Lamiaceae] | AlkaloidsPhenolsPolyphenolsTanninsSterolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae*MDR *P. stuartii* | MIC & MBC model | (Djeussi et al., 2013) |
| *Olea europaea* L. [Oleaceae] | Oleanolic acid **(VIII)** | Inhibition of efflux pump | *P. aeruginosa**S. pneumoniae* *M. tuberculosis* *E. coli* | MIC model | (Jesus et al., 2015) |
| *Piper regnellii* (Miq.) C.DC. [Piperaceae] | ConocarpanEupomathenoid-5 | Anti-biofilm activity | MRSAMSSA | MIC model, biofilm assay | (Brambilla et al., 2017) |
| *Punica granatum* L. [Lythraceae] | Stigmasterol\*AlkaloidsGlycosidesTerpenoidsSaponinsTanninsFlavonoidsSteroidsAnthraquinones | Inhibition of bacterial enzyme | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017; Alawode et al., 2021) |
| *Scutellaria baicalensis* Georgi [Lamiaceae] | Baicalein (IX) | Efflux pump inhibition Inhibition of bacterial cell wall synthesis | MRSA*E. coli*VRE  | MIC model, time-kill study  | (Fujita et al., 2005) |
| *Soymida febrifuga* (Roxb.) A.Juss. [Meliaceae] | Luteolin-7-O-glucoside\*Methyl angolensateAlkaloidsResinsGlycosides TerpenoidsTanninsFlavonoidsSteroids,Anthraquinones | Cell membrane disruption | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method, disc diffusion method | (Mishra et al., 2017) (Chiruvella et al., 2007) |
| *Swertia chirata* Buch.-Ham. ex C.B. Clarke, [Gentianaceae] | - | Quorum quenching against *S. aureus* | MDR *S. aureus* | Broth microdilution testing, biofilm inhibition assay | (Khan et al., 2018) |
| *Tamarindus indica* L. [Fabaceae] | AlkaloidsFlavonoidsPhenolsPolyphenolsSaponinsSterolsTriterpenes | - | MDR *E. coli*MDR *E. aerogenes*MDR *E. cloacae*MDR *K. pneumoniae* | MIC & MBC model | (Djeussi et al., 2013) |
| *Terminalia chebula* Retz. [Combretaceae] | Arjungenin\*AlkaloidsResinsGlycosidesTerpenoidsTanninsFlavonoidsAnthraquinones | Anti-biofilm activity | *E. faecalis* *S. aureus**A. baumannii**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017) |
| *Thymbra spicata* L. [Lamiaceae] | Carvacrol (X)Thymol (XI)Camphor | Efflux pump inhibition  | *E. coli* | MIC & MBC microdilution method | (Abdallah and Omar, 2019) |
| *Tinospora cordifolia* (Willd.) Hook.f. & Thomson [Menispermaceae] | Berberine\*QuinonesPolyphenolsAlkaloidsFlavonoidsTanninsCoumarinsTerpenoids LectinsGlycosidesSaponinsSteroids | Inhibition of bacterial enzymeCell membrane disruption | *E. faecalis* *S. aureus**C. freundii**E. aerogenes**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017; Agarwal et al., 2019) |
| *Tribulus terrestris* L. [Zygophyllaceae] | Quercetin TerpenoidsSteroids | Cell membrane disruption | *E. faecalis* *S. aureus**A. baumannii**C. freundii**E. coli**K. oxytoca**K. pneumoniae**P. mirabilis**P. vulgaris* *P. aeruginosa* | Agar well diffusion method | (Mishra et al., 2017) |
| *Zanthoxylum armatum* DC. [Rutaceae] | threo-3-methoxy-5-hydroxy-phenylpropanetriol-8-O-β-D-glucopyranoside3-[[6-O-(6-deoxy-α-L-mannopyranosyl)-β-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-4H-1-benzopyran-4-one6′-methoxy-(8α,9R)-cinchonan-9-olN-(2,3-dihydroxy-2-methylpropyl)-2,6,8,10-dodecatetraenamide3,5,7-trihydroxy-8-methoxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-oneN-(2-methylpropyl)-2,6,8,10-dodecatetraenamideN-(2-methylpropyl)-2,4,8,10,12-tetradecapentaenamide9,12,15-octadecatrienoic acid | Quorum quenching against *S. aureus* | MDR *E. faecium*MDR *S. aureus* | Broth microdilution testing, biofilm inhibition assay | (Khan et al., 2018) |
| *Zingiber officinale* Roscoe [Zingiberaceae] | Lariciresinol | Efflux pump inhibition | *S. typhimurium* | Agar well diffusion method, MIC microdilution method | (Mehta et al., 2022) |

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