

**Table 3 (continued)**  
**HIGHER PLANT GENERA AND THEIR TOXINS**

| Genus <sup>a</sup>                 | Family           | Toxin  |
|------------------------------------|------------------|--|
| <i>Orthodon</i>                    | Lamiaceae        | Asarone, carvacrol, carvone, myristicin  |
| <i>Orthosiphon</i>                 | Lamiaceae        | Betaine, choline   |
| <i>Oryza</i>                       | Poaceae          | Anhaline, choline, citric acid, hydrocyanic acid, malic acid, maltose, naphthaline, oxalic acid, pantothenic acid, pectin, trigonelline                |
| <i>Osteospermum</i>                | Asteraceae       | Hydrocyanic acid   |
| <i>Osyris</i>                      | Santalaceae      | Rutin  |
| <i>Oxalis</i> <sup>b</sup>         | Oxalidaceae      | Oxalic acid  |
| <i>Oxytenia</i> <sup>b</sup>       | Asteraceae       |  |
| <i>Oxytropis</i> <sup>b</sup>      | Fabaceae         | Selenium   |
| <i>Pachycarpus</i>                 | Asclepiadaceae   | Anhydroperiplogenone, cymarin, strophanthidin  |
| <i>Pachyrhizus</i>                 | Fabaceae         | Adenine, choline, rotenone, saponin  |
| <i>Paederia</i>                    | Rubiaceae        | Methanethiol   |
| <i>Paeonia</i> <sup>b</sup>        | Paeoniaceae      |  |
| <i>Paliuris</i>                    | Rhamnaceae       | Methyl salicylate, rutin   |
| <i>Panax</i>                       | Araliaceae       | Maltose, saponin   |
| <i>Pandanus</i>                    | Pandanaceae      | Guaiaicol, linalool  |
| <i>Pangium</i>                     | Flacourtiaceae   | Hydrocyanic acid   |
| <i>Panicum</i> <sup>b</sup>        | Poaceae          | Anhaline, choline, saponin, tryptophane  |
| <i>Papaver</i> <sup>b</sup>        | Papaveraceae     | Biflorine, citric acid, codeine, malic acid, morphine, narcotine, papaverine, pectin, sanguinarine, tannic acid, thebaine, tryptophane                 |
| <i>Pappea</i>                      | Sapindaceae      | Hydrocyanic acid   |
| <i>Paratecoma</i>                  | Bignoniaceae     | Lapachol   |
| <i>Parietaria</i>                  | Urticaceae       | Coniine  |
| <i>Parinari</i>                    | Chrysobalanaceae | Methyl salicylate  |
| <i>Paris</i> <sup>b</sup>          | Trilliaceae      |  |
| <i>Parkinsonia</i> <sup>b</sup>    | Caesalpinaceae   |  |
| <i>Parthenium</i>                  | Asteraceae       | Betaine  |
| <i>Parthenocissus</i> <sup>b</sup> | Vitaceae         |  |
| <i>Paspalum</i> <sup>b</sup>       | Poaceae          | Hydrocyanic acid, tryptophane  |
| <i>Passiflora</i>                  | Passifloraceae   | Citric acid, harman, harmine, hydrocyanic acid, malic acid, pantothenic acid, pectin, tannic acid  |
| <i>Pastinaca</i> <sup>b</sup>      | Apiaceae         | Coumarin, ethyl alcohol, imperatorin, methanol, myristicin, oxalic acid, rutin   |
| <i>Patrinia</i>                    | Valerianaceae    | Shikimic acid  |
| <i>Paullinia</i>                   | Sapindaceae      | Caffeine, pyrocatechol, theobromine, theophylline  |
| <i>Pausinystalia</i>               | Rubiaceae        | Corynantheine  |
| <i>Pectis</i>                      | Asteraceae       | Cuminic aldehyde   |
| <i>Pedicularis</i> <sup>b</sup>    | Scrophulariaceae |  |
| <i>Peganum</i> <sup>b</sup>        | Zygophyllaceae   | Harmaline, harmine   |
| <i>Pelargonium</i>                 | Geraniaceae      | Citral, citronellol, geraniol, hexanol, isoamyl alcohol, isovaleric acid, nonanoic acid, phellandrene, terpineol                                       |
| <i>Pelea</i>                       | Rutaceae         | Anisaldehyde   |
| <i>Peltophorum</i>                 | Caesalpinaceae   | Tannic acid, tryptophane   |
| <i>Pennisetum</i>                  | Poaceae          | Choline, hydrocyanic acid, oxalic acid, tryptophane  |
| <i>Penstemon</i> <sup>b</sup>      | Scrophulariaceae |  |
| <i>Peponium</i>                    | Cucurbitaceae    | Cucurbitacin   |
| <i>Perilla</i>                     | Lamiaceae        | Limonene   |
| <i>Periploca</i>                   | Periplocaceae    | Strophanthidin   |
| <i>Peristrophe</i>                 | Acanthaceae      | Coumarin   |
| <i>Perriera</i>                    | Simaroubaceae    | Glaucarubin  |
| <i>Persea</i> <sup>b</sup>         | Lauraceae        | Anethole, esdragole, hydrocyanic acid, serotonin, tartaric acid  |
| <i>Petalostylis</i>                | Caesalpinaceae   | Dimethyl tryptamine  |
| <i>Petastites</i>                  | Asteraceae       | Retronecine, senecionine   |
| <i>Petroselinum</i>                | Apiaceae         | Apiole, coumarin, myristicin   |
| <i>Petrosimonia</i>                | Chenopodiaceae   | Piperidine   |
| <i>Peucedanum</i>                  | Apiaceae         | Imperatorin, isobutyric acid, myristicin   |
| <i>Peumus</i>                      | Monimiaceae      | Pachycarpine, terpineol  |
| <i>Phaius</i>                      | Orchidaceae      | Indican  |
| <i>Phalaris</i> <sup>b</sup>       | Poaceae          | Anhaline, bufotenine, dimethyl tryptamine, donaxine  |
| <i>Phaseolus</i> <sup>b</sup>      | Fabaceae         | Acetone, choline, fumaric acid, hydrocyanic acid, inositol, malonic acid, maltose, methyl-cysteine, oxalic acid, pectin, rutin, saponin, succinic acid |
| <i>Phebalium</i>                   | Rutaceae         | Citral   |