

## 27 PIPER Linn. (Piperaceae)

- P. acutistigmum* C. DC.  
*P. aduncum* Linn.  
*P. argyrophyllum* Miq.  
*P. attenuatum* Buch.-Ham. ex Miq.  
*P. betle* Linn.  
*P. boehmeriifolium* (Miq.) Wall. ex C. DC.  
*P. brachystachyum* Vahl  
*P. cubeba* Linn. f.  
*P. divaricatum* G. Mey. syn. *P. colubrinum* Link  
*P. falconeri* C. DC.  
*P. galeatum* (Miq.) C. DC.  
*P. guineense* Schumach. & Thonn. syn. *P. clusii* (Miq.) C. DC.  
*P. hamiltonii* C. DC.  
*P. hookeri* Miq.  
*P. hymenophyllum* (Miq.) Wight  
*P. khasianum* C. DC. syn. *P. manii* C. DC.  
*P. longum* Linn.  
*P. methysticum* G. Forst.  
*P. mullesua* Buch.-Ham. ex D. Don  
*P. nigrum* Linn.  
*P. pedicellatum* C. DC. syn. *P. clarkei* C. DC.  
*P. pedicellosum* Wall. ex DC.  
*P. peepuloides* Roxb.  
*P. retrofractum* Vahl syn. *P. chaba* Hunter; *P. officinarum* (Miq.) C. DC.  
*P. sarmentosum* Roxb. syn. *P. diffusum* Blume ex Miq.  
*P. schmidtii* Hook. f.  
*P. suipigua* Buch.-Ham. ex D. Don syn. *P. nepalense* Miq.  
*P. sumatranum* (Miq.) C. DC. var. *andamanica*  
*P. sylvaticum* Roxb.  
*P. thomsonii* (C. DC.) Hook. f.  
*P. trichostachyon* (Miq.) C. DC.  
*P. trioicum* Roxb.  
*P. wallichii* (Miq.) Hand.-Mazz. syn. *P. aurantiacum* Wall. ex C. DC.  
*P. wightii* Miq.



*P. attenuatum* Buch.- Ham. ex Miq.



*P. betle* Linn.



*P. longum* Linn.



*P. nigrum* Linn.

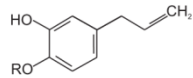


*P. retrofractum* Vahl

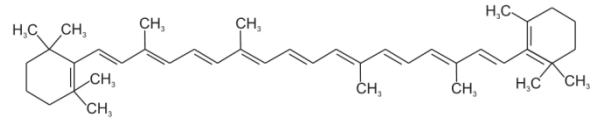
## OTHER ASPECTS COVERED

- Regional and Other Names
- Habit and Habitat
- Ayurvedic Description
- Therapeutic Uses Mentioned in Ayurvedic Pharmacopoeia
- Properties and Uses Ascribed
- Ethnobotanical Reports
- Pharmacognostic Studies
- Chemical Studies
- Pharmacological and Biological Studies
- Clinical Studies

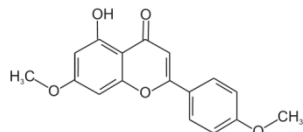
## Certain Constituents of *Pipe* Species



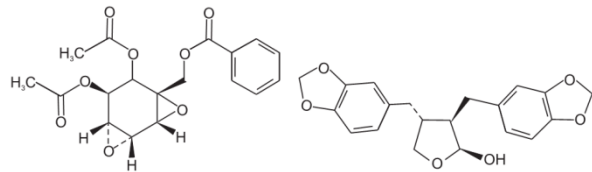
Allylpyrocatechol R = CH<sub>3</sub>  
Chavibetol R = H



$\beta$ -Carotene

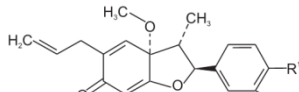


Apigenin 7,4'-dimethyl ether

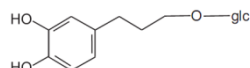


Crotopoxide

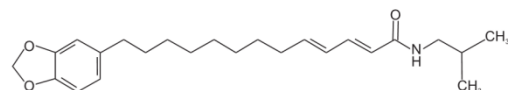
Cubebin



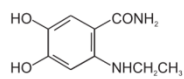
Denudatin A R<sup>1</sup>+R<sup>2</sup> = -O-CH<sub>2</sub>-O-  
Denudatin B R<sup>1</sup>=R<sup>2</sup> = OCH<sub>3</sub>



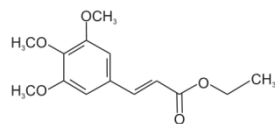
3,4-Dihydroxyphenylethanol glucoside



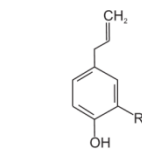
Guineensine



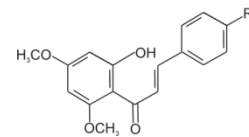
3,4-Dihydroxy-6-(*N*-ethylamino)benzamide



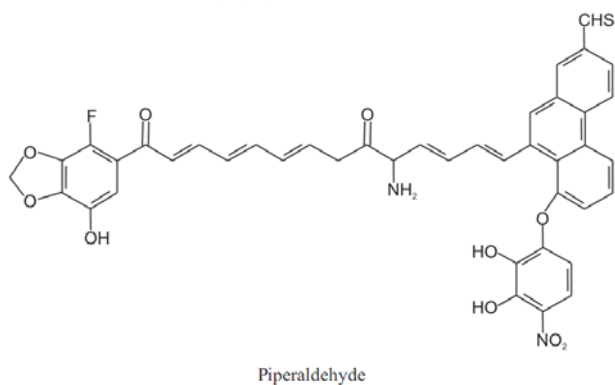
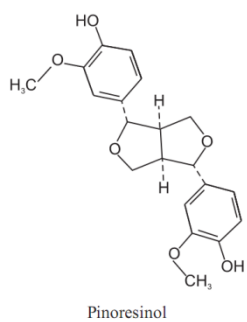
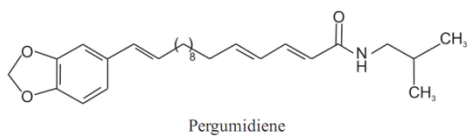
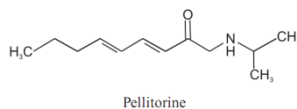
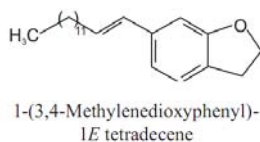
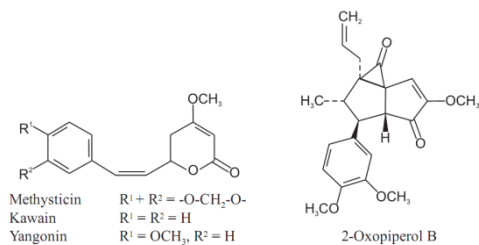
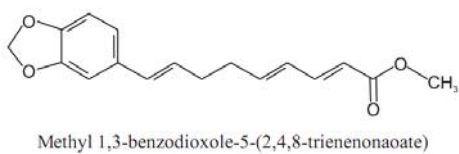
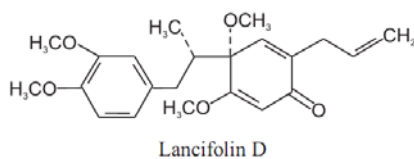
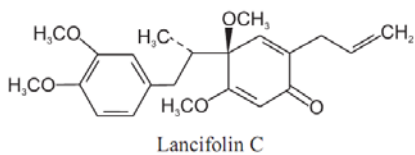
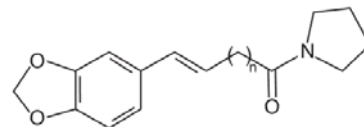
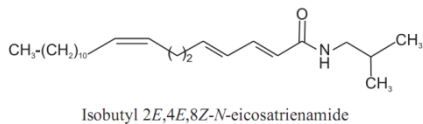
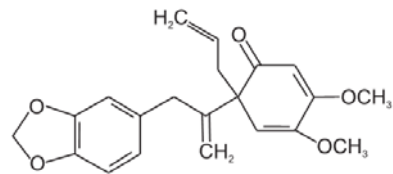
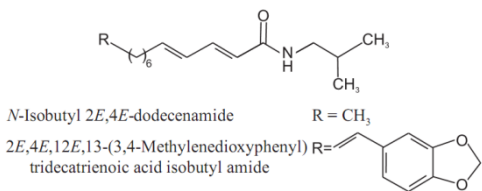
Ethyl 3',4',5'-trimethoxycinnamate

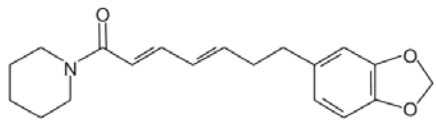


Hydroxychavicol R = OH  
Eugenol R = OCH<sub>3</sub>

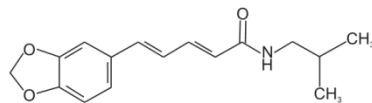


Flavokawain - A R = OCH<sub>3</sub>  
Flavokawain - B R = H  
Flavokawain - C R = OH

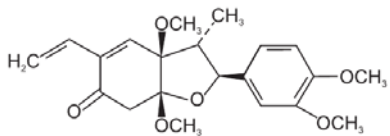




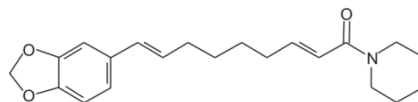
Piperdardine



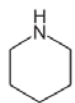
Piperlonguminine



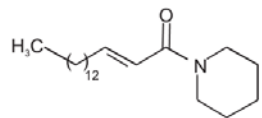
Piperenone



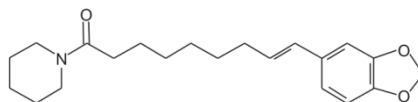
Pipernonaline



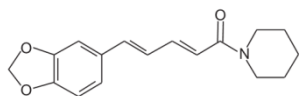
Piperidine



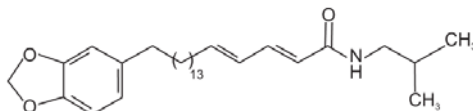
Piperlongimin B



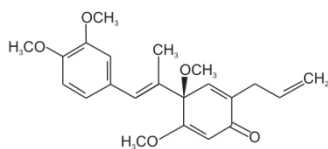
Piperolein B



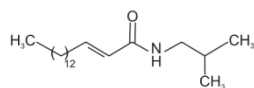
Piperine



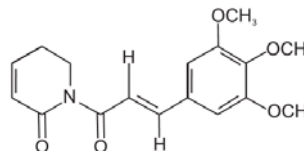
Piperlongumide



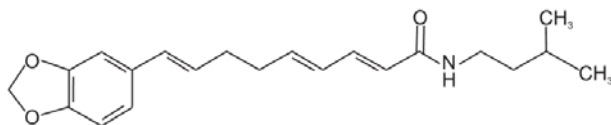
Piperkadsin A



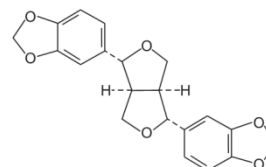
Piperlongimin A



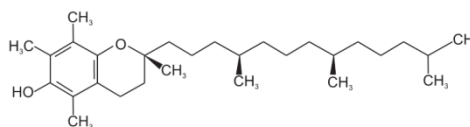
Piperlongumine



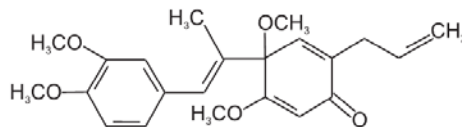
Pipyahyine



Sesamin



$\alpha$ -Tocopherol



Wallichinine

