

## Thalictrum flavum

Thalictrum flavum, known by the common names common meadow-rue,[2][3] poor man's rhubarb,[4] and yellow meadow-rue,[5] is a flowering plant species in the family Ranunculaceae. It is a native to Caucasus and Russia (Siberia). Growing to 100 cm (39 in) tall by 45 cm (18 in) broad, it is an herbaceous perennial producing clusters of fluffy yellow fragrant flowers in summer.

Thalictrum flavum has fibrous roots,[6] and wedge-shaped,[7] dark green leaves, with a paler green underneath; they are divided into multiple sections.[2] It blooms between June and August.[2] The flowers are composed of short sepals and longer, erect stamens.[8][9] The sepals are actually white, but the multiple erect, yellow stamens, give the flower a yellow appearance.[7] Later, three fruits are formed from each flower head.[2]

The plant contains an enzyme called pavidine N-methyltransferase, which modifies a variety of benzyloquinoline alkaloids including the eponymous alkaloid pavidine.[10] Benzyloquinoline alkaloids like pavidine often have a variety of pharmacological actions, and as a result some have medical uses such as analgesic or anticancer effects while others have significant toxicity. T. flavum also contains another benzyloquinoline alkaloid, thalidazine, which is also present in other Thalictrum species.[11]

It was first described and published by Carl Linnaeus, in his book 'Species Plantarum', on page 546 in 1753.[1][12] The specific epithet flavum means "pure yellow".[13]

The subspecies T. flavum subsp. glaucum (from the word glaucous) has gained the Royal Horticultural Society's Award of Garden Merit.[14] It serves as an alternate host for the wheat disease Wheat Leaf Rust.[15]

The common name 'meadow rue' is thought to have derived from 'meadow rhubarb'.[2]

It is written as 黄芩 in Chinese script and known as huang tang song cao in Pidgin in China.[16]

It was verified by United States Department of Agriculture and the Agricultural Research Service on 24 January 1997.[17]

It is very widespread, and is native to temperate regions of Asia, Northern Africa and Europe.[17]

It is found in Northern Africa within Algeria. In Europe, it is found in (Eastern Europe) Belarus, Estonia, Latvia, Lithuania, Ukraine, (Middle Europe), Austria; Czech Republic, Germany, Hungary, Poland, Slovakia, Switzerland, (northern Europe) Denmark, Finland, Ireland, Norway, Sweden, United Kingdom, (southeastern Europe) Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Italy, Montenegro, North Macedonia, Romania, Serbia, (southwestern Europe) France and Spain. In Asia, it is found in the Caucasus, (within Azerbaijan and Georgia) Russian Federation, (within Amur and Primorye), China, (Xinjiang,[16]) Kazakhstan, Siberia and Turkey.[17]

It has naturalised in the UK, and found in southern and western England, as well as in Scotland and Ireland.[2][7]

It is found generally in grasslands,[18] marshy fields, fens and riverbanks.[6][7]

It is pollinated mainly by flies and bees, with wind dispersal of the seeds.[2]

The larva of the *Perizoma sagittata* (Marsh Carpet moth) are found on the plant, eating the seeds and the flowers.[5]

*Thalictrum flavum* is cultivated as an ornamental plant. The cultivars *Thalictrum* 'Tukker Princess'[19] and *Thalictrum flavum* subsp. *glaucum* 'Ruth Lynden-Bell'[20] have received the Royal Horticultural Society's Award of Garden Merit.

It has been used in folk medicine in the UK, the foliage has been used a purgative.[2]

