**Botanic name :** *Polygonum orientale* L. -- Sp. Pl. 1: 362. 1753 [1 May 1753] (IK)

Family: Polygonaceae

Common name: Prince's Feather, Garden gate, Oriental Pepper, Tall Persicaria

**Habitat**: Terrestrial

**Distribution**: East Asia-China to the Indian Himalayas; becomes invasive from SE Asia to Australia due to its high germination capacity, and allelopathic effects on neighbouring crops

**Description:** Annual erect, herb; leaves slightly hairty, ovate, alternate, stipulate; stipules ochreate; flowers white to pink, arranged in cylindrical raceme, laxly panicled, 8 to 13 centimeters long; perianth of each tiny flower consists of four or five segments, united near its green base and white or pink at the edges. There are six stamens, three fused carpels and three styles. Fruit-a dark brown oval, flattened nut, placentation basal.

Phytochemicals: Oxymethyl-anthraquinone, myricitrin, luteolin, gallic acid, catechin, protocatechuic acid and p-hydroxycinnamic acid, lignans-arctiin, lappaol B, orientalin, naringenin, ombuine-3-O-beta-D-galactopyranoside, ombuine-3-O-rutinoside. tryptophan. quercetin-3-O-methyl ether. kaempferol-3-O-(2"-O-alpha-L-rhamnopyranosyl) -beta-D-glucuronopyranoside. quercetin-3-O-(2"-O-alpha-L-rhamnopyranosyl)-beta-D-glucuronopyranoside, quercetin-3-O-beta-D-glucuronide, alphitonin, apocynin, kaempferol-glucoside, kaempferol-3-O-α-L-rhamnoside, quercetin-3-O-α-L-rhamnoside, kaempferol, anthraquinone glucoside, arborinol, β-sitosterol and β-sitosterol-D-glucoside

Medicinal/Economic uses: Antioxidant, tonic. vulnerary, anti-inflammatory, antinociceptive, antihyperglycemic, and antinociceptive. Used as Stimulant, diuretic, diaphoretic, emmenagogue, efficacious in amenorrhoea. A cold water infusion is useful in gravel, colds and coughs. In India, whole plant is used for whooping cough and menorrhagia. Fruit and leaves are burned and prescribed for fever. The flowers are used to thin the blood, remove obstructions, and and ease pain while the leafy stem are useful in treating hernias. Decoction of leaves used for liver and splenic diseases wheras stem decoction is employed to treate hepatitis, tympanites, cancer, and ulcers. Seeds are useful to relieve flatulence, fever abd thirst, and breathe. In India, root juice taken orally to increase frequency of urination. Young shoots are cooked and used as standard vegetable in Indo-China