WORLD JOURNAL OF PHARMACEUTICAL RESEARCH
SJIF Impact Factor 8.084
Volume 9, Issue 2, 1263-1265. Review Article ISSN 2277– 7105

REVIEW OF PHARMACOLOGICAL ACTIVITY OF GENUS *MYXOPYRUM*

R. Santhanalakshmi and *R. Vimalavathini

Department of Pharmacology, College of Pharmacy, MTPG & RIHS, Pondicherry 605 006, India.

Article Received on
19 Dec. 2019,

Revised on 09 Jan. 2020,
Accepted on 30 Jan. 2020,

DOI: 10.20959/wjpr20202-16771

***Corresponding Author**
Dr. R. Vimalavathini
Assistant Professor, College of Pharmacy, MTPG & RIHS, Pondicherry 605 006, India.

ABSTRACT

Myxopyrum genus, native to South Asia belongs to the family of oleaceae. They are large woody climbing shrub with quadrangular stems and simple, opposite, elliptical and serrate leaves. Flowers yellow in axillary or terminal panicles. Fruits are obovoid berries with 2 seeds. This review focuses on the pharmacological activity of two species of this group namely**,** *Myxopyrum serratulum* and *Myxopyrum smilacifolium Blume.*

KEYWORDS: Screening, Myxopyrum, Activity.

Myxopyrum genus, native to South Asia belongs to the family of oleaceae. They are large woody climbing shrub with quadrangular stems and simple, opposite, elliptical and serrate leaves. Flowers yellow in axillary or terminal panicles. Fruits are obovoid berries with 2 seeds.

Parts used	Pharmacological method of screening	Activity
Myxopyrum serratulum		
Aerial	1.Human red blood cell membrane stabilization (HRBC) method. 2.protein denaturation method	Anti-arthritic Anti-inflammatory[1]
Stem and leaves	Carrageenan induced paw edema in rats.	Anti-inflammatory[2]
Aerial	DPPH nitric oxide scavenging activity	Anti-oxidant[3]
Leaves	Agar diffusion assay on fungi, gram positive and negative bacteria	Antimicrobial[4]
Leaves	Excision and dead space wound models in rat.	Wound healing[5]
Myxopyrum smilacifolium Blume		
Leaves	HRBC method protein denaturation	Anti-flammatory[6]

Leaves	1.carrageenan and formalin induced rat paw edema, 2.Brewer's yeast induced hyperpyrexia Wistar rat	Anti-inflammatory and antipyretic[7]
Root, callus and fruit	Hydroxyl radical scavenging assay(DPPH) Nitric oxide scavenging assay	Antioxidant[8]
root, callus, and fruit	Agar well diffusion method for bacterial strains	Antimicrobial[9]
Leaves	Disk diffusion method on gram positive bacteria	Antimicrobial[10]
	DPPH assay Superoxide anion scavenging activity Hydroxyl radical scavenging activity	Anti-oxidant[11]

REFERENCES

1. Sheelarani T, Gopal V, Seethalakshmi S, Chithra K. In vitro anti-inflammatory and anti-arthritic activity of selected medicinal plants. International Journal of Pharmaceutical Sciences Review and Research, 2014; 28(2): 162-3.
2. Rajalakshmi K, Mohan VR. Anti-inflammatory activity of stem and leaf of Myxopyrum serratulum A.W.Hill (Oleaceae). International Journal of Current Pharmaceutical Review and Research, 2016; 7(4): 190-2.
3. Sheelarani T, Gopal V, Seethalakshmi S, Chithra K. In-vitro anti-oxidant activity of Myxopyrum serratulum A.W.Hill. International Journal of Pharmacy and Pharamaceutical sciences, 2013; 5(4): 545-6.
4. Gopalakrishnan S, Rajameena R, Vadivel E. Antimicrobial activity of the leaves of Myxopyrum serratulum A.W.Hill. International Journal of Pharmaceutical Sciences and Drug Research, 2014; 4(1): 31-4.
5. Gopalakrishnan S, Rajangam RR. Wound healing activity of the ethanol extract of the leaves of Myxopyrum serratulum A.W.Hill in rats. International Journal of Pharmaceutical Review and Research, 2013; 22(1): 143-7.
6. Jolly S, Siju EN, Minil M, Rajalakshmi GR. Invitro anti-inflammatory activity of Myxopyrum smilacifolium blume (oleacea). World Journal of Pharmacy and Pharmaceutical Sciences, 2014; 3(6): 1822-8.
7. Varughese MS, Mohammed S, Jacob P, Devasia BN. Evaluation of anti-inflammatory and antipyretic activity of ethanolic leaves extract of Myxopyrum smilacifolium blume. Asian Journal of Pharmaceutical and Clinical Research, 2015; 8(4): 212-5.
8. Praveen RP, Ashalatha Antioxidant potential of methanolic extract of root, callus, fruit extracts of Myxopyrum smilacifolium blume. International Journal of Biological and Pharmaceutical Research, 2015; 6(1): 51-5.

9. Praveen RP, Ashalatha. Anti-microbial efficacy of methanolic extract of root, callus and fruit extracts of Myxopyrum smilacifolium blume. International Journal of Applied Sciences and Biotechnology, 2014; 2(4): 521-4.
10. Sudharmani D. and Ashalatha S. Nair. Antimicrobial studies of triterpenoid fractions from Myxopyrum smilacifolium blume. Ethnobotanical leaflets, 2008; 12: 912-15.
11. Siju EN, Jolly S, Minil M, Rajalakshmi GR. Antioxidant activity of Myxopyrum smilacifolium blume. Asian Journal of Pharmaceutical and Clinical Research, 2015; 8(3): 119-21.