

Click [www.researchjournal.co.in/online/subdetail.html](http://www.researchjournal.co.in/online/subdetail.html) to purchase.

## RESEARCH ARTICLE

# Efficacy of different phytoextracts for management of bacterial blight disease of pomegranate caused by *Xanthomonas axonopodis* pv. *punicae*

■ G.B. RAUT, C.V. AMBADKAR AND A.S. DHAWAN

### SUMMARY

A study on efficacy of different plant extracts for management of bacterial blight disease of pomegranate caused by *Xanthomonas axonopodis* pv. *punicae* was conducted during the year 2011-12 at College of Agriculture, Osmanabad. Plant leaf extract of seven botanicals viz., Shatavari leaf extract, Sadaphuli leaf extract, Adulasa leaf extract, Karanj leaf extract, Ashwagandha leaf extract, Behada leaf extract, Ritha leaf extract @ 10 and 20 per cent were evaluated *in vitro* by applying inhibition zone technique (paper disc method) and using nutrient agar (N.A.) as basal culture medium. The result revealed that Sadaphuli leaf extract at 10 per cent was found most effective for controlling *X. axonopodis* pv. *punicae* by forming 8.22 per cent inhibition followed by Ritha leaf extract (6.50%), Adulasa leaf extract (5.35%), Shatavari leaf extract (4.52 %), Karanj leaf extract (4.11%), Ashwagandha leaf extract (4.11 %) and Behada leaf extract (3.28%). Similarly, Sadaphuli leaf extract at 20 per cent was found most effective for controlling *X. axonopodis* pv. *punicae* by forming 9.06 per cent inhibition followed by Ritha leaf extract (8.22 %), Adulasa leaf extract (6.99 %), Shatavari leaf extract (6.58 %), Karanj leaf extract (5.75 %), Ashwagandha leaf extract (5.36 %) and Behada leaf extract (5.36 %).

**Key Words :** *Xanthomonas axonopodis* pv. *punicae*, Plant leaf extract, Bacterial blight disease of pomegranate

**How to cite this article :** Raut, G.B., Ambadkar, C.V. and Dhawan, A.S. (2015). Efficacy of different phytoextracts for management of bacterial blight disease of pomegranate caused by *Xanthomonas axonopodis* pv. *punicae*. *Internat. J. Plant Sci.*, **10** (2): 118-121.

**Article chronicle :** Received : 04.07.2014; Revised : 07.06.2015; Accepted : 16.06.2015

### MEMBERS OF THE RESEARCH FORUM

**Author to be contacted :**

C.V. AMBADKAR, Department of Plant Pathology, College of Agriculture,  
OSMANABAD (M.S.) INDIA

**Address of the Co-authors:**

G.B. RAUT AND A.S. DHAWAN, College of Agriculture, OSMANABAD (M.S.)  
INDIA