

 Open Access

Article Information

Published: April 30, 2021

Keywords

Biotreatment agent,
Natural coagulant,
Moringa oleifera,
Wastewater,
Water Quality.

Authors' Contribution

Authors AA and II contributed
equally to this manuscript.

How to cite

Ashraf, A., Iqbal, I., 2021.
Potential Use of *Moringa oleifera*
as Natural Coagulant and
Biotreatment Agent to Improve
Water Quality. PSM Biol. Res.,
6(2): 50-52.

*Correspondence

Asfa Ashraf, PSM Editorial Office,
Pakistan Science Mission (PSM),
Narowal (Noor Kot 51770),
Pakistan.

Email:
sundausnaeem@yahoo.com

Possible submissions

 Submit your article 



Scan QR code to visit this journal
on your mobile device.

Potential Use of *Moringa oleifera* as Natural Coagulant and Biotreatment Agent to Improve Water Quality

Asfa Ashraf^{1,2*}, Iqra Iqbal^{2,3}

¹The School of Life Sciences, Fujian Normal University, Fuzhou 350117, China.

²Pakistan Science Mission (PSM), Narowal (Noor Kot 51770), Pakistan.

³Department of Zoology, Government College Women University Sialkot, Pakistan.

Abstract:

The availability and quality of water have always played an important part in determining the quality of life. Lack of potable water is a huge problem and a major cause of death and disease in the world. The use of natural plant extracts for the treatment of water has been recorded throughout human history. *Moringa oleifera* (Moringaceae) is highly important plant distributed in tropics and subtropics regions of the world. The use of *M. oleifera* as a natural coagulant and biotreatment agent to improve water quality is because of its ability to reduce turbidity and microbial presence in the water. Seeds of this tropical tree contain water-soluble, positively charged proteins that act as an effective coagulant for water and wastewater treatment. In this issue, Ibiene et al. determine the efficacy of *M. oleifera* seed powder as a coagulant in wastewater treatment and a biotreatment agent to improve surface water quality. *M. oleifera* could be viewed as sustainable, appropriate, effective, and robust water treatment means.