# [***O.P. Jindal Global University Researchers Publish New Data on Life Sciences (Variations in Soil Blue Carbon Sequestration between Natural Mangrove Metapopulations and a Mixed Mangrove Plantation: A Case Study from the World's Largest Contiguous ...)***](https://advance.lexis.com/api/document?collection=news&id=urn:contentItem:67SD-9931-JBSP-12PH-00000-00&context=1516831)

NewsRx Life Science Daily

March 14, 2023 Tuesday

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**Section:** LIFE SCIENCES

**Length:** 474 words

**Body**

2023 MAR 14 (NewsRx) -- By a News Reporter-Staff News Editor at NewsRx Life Science Daily -- Current study results on life sciences have been published. According to news reporting from Haryana, India, by NewsRx journalists, research stated, "Sundarban is the world's largest ***mangrove*** wetland."

The news correspondents obtained a quote from the research from O.P. Jindal Global University: "This study, conducted in 2016, to compare ***blue carbon*** sequestration with different natural metapopulations and a four-year-old Avicennia marina (30% area)- Rhizophora mucronata (70% area)-mixed ***mangrove*** plantation under anthropoganic stress. The aims of the study is to find out the variations in soil ecological function indicators (pH, electrical conductivity, bulk density, soil texture, available nitrogn, phosphorus and soil organic carbon) and key ecological service indicator (soil ***blue carbon*** pool) between sites. Simpson's Index of dominance, diversity and Shannon-Weiner Index revealed that all the sites are under ecological stress, with the Suaeda maritima -dominated mudflat having the least biodiversity. It is also revealed that pH and electrical conductivity were highest in Suaeda maritima and Phoenix padulosa -dominated metapopulations, whereas organic carbon was the highest under the ***mangrove*** plantation and Avicennia marina -dominated site. Available nitrogen was recorded highest in the community with the Sonneretia sp.- Avicennia marina association. The mixed ***mangrove*** plantation had the highest ***blue carbon*** pool."

According to the news reporters, the research concluded: "The species diversity was not found to be related with the distance from the nearby conserved ***mangrove*** forest, contrary to the island biogeography theory. This study concludes with a recommendation of mixed ***mangrove*** plantations to restore the degraded saline mudflats along the human settlements across the globe."

For more information on this research see: Variations in Soil ***Blue Carbon*** Sequestration between Natural ***Mangrove*** Metapopulations and a Mixed ***Mangrove*** Plantation: A Case Study from the World's Largest Contiguous ***Mangrove*** Forest. Life, 2023,13(271):271. (Life - http://www.mdpi.com/journal/life). The publisher for Life is MDPI AG.

A free version of this journal article is available at https://doi.org/10.3390/life13020271.

Our news editors report that more information may be obtained by contacting Abhiroop Chowdhury, Jindal School of Environment and Sustainability, O.P. Jindal Global University, Sonipat 131001, Haryana, India. Additional authors for this research include Aliya Naz, Subodh Kumar Maiti.

Keywords for this news article include: O.P. Jindal Global University, Haryana, India, Asia, Ecology, Life Sciences.

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**Classification**

**Language:** ENGLISH

**Document-Type:** Expanded Reporting

**Publication-Type:** Newsletter

**Subject:** CASE STUDIES (90%); ECOLOGY & ENVIRONMENTAL SCIENCE (90%); JOURNALISM (90%); NEWS REPORTING (90%); RESEARCH REPORTS (90%); WETLANDS CONSERVATION (89%); BIODIVERSITY (79%); FORESTRY & ENVIRONMENT (79%); GEOGRAPHY (79%); SUSTAINABILITY (79%); WRITERS (78%); FORESTS & WOODLANDS CONSERVATION (77%); COLLEGES & UNIVERSITIES (76%); WETLANDS (74%); Ecology;Life Sciences (%)

**Industry:** NEWS REPORTING (90%); FORESTRY & ENVIRONMENT (79%); PUBLISHING (78%); WRITERS (78%); FORESTS & WOODLANDS CONSERVATION (77%); COLLEGES & UNIVERSITIES (76%)

**Geographic:** HARYANA, INDIA (88%); INDIA (90%); ASIA (79%)

**Load-Date:** March 14, 2023

**End of Document**