# [***New Science Study Results from Huazhong University of Science and Technology Described (Indirect effects among biodiversity loss of mutualistic ecosystems)***](https://advance.lexis.com/api/document?collection=news&id=urn:contentItem:68K1-7791-DY7R-R109-00000-00&context=1516831)

NewsRx Science Daily

June 28, 2023 Wednesday

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**Section:** SCIENCE

**Length:** 399 words

**Body**

2023 JUN 28 (NewsRx) -- By a News Reporter-Staff News Editor at NewsRx Science Daily -- Investigators publish new report on science. According to news originating from Huazhong University of Science and Technology by NewsRx correspondents, research stated, "Drastic reduction in ***biodiversity*** has been a severe threat to ecosystems, which is exacerbated when losing few species leads to disastrous and even irreparable consequences."

Our news editors obtained a quote from the research from Huazhong University of Science and Technology: "Therefore, revealing the mechanism underlying ***biodiversity*** ***loss*** is of uttermost importance. In this study, we show that abundant indirect interactions among mutualistic ecosystems are critical in determining species' status. Combining topological and ecological characteristics, we propose an indicator derived from a dynamic model to identify keystone species and quantify their influence, which outperforms widely-used indicators like degree in realistic and simulated networks. Furthermore, we demonstrate that networks with high modularity, heterogeneity, ***biodiversity***, and less intimate interactions tend to have larger indirect effects, which are more amenable in predicting decline of ***biodiversity*** with the proposed indicator."

According to the news editors, the research concluded: "These findings shed some light onto the influence of apposite ***biodiversities***, paving the way from complex network theory to ecosystem protection and restoration."

For more information on this research see: Indirect effects among ***biodiversity*** ***loss*** of mutualistic ecosystems. National Science Open, 2022,1. The publisher for National Science Open is Science Press.

A free version of this journal article is available at https://doi.org/10.1360/nso/20220002.

Our news journalists report that additional information may be obtained by contacting Liu Xueming, ["School of Artificial Intelligence and Automation, Key Laboratory of Image Processing and Intelligent Control, Huazhong University of Science and Technology, Wuhan 430074, China"]. Additional authors for this research include Wang Guangwei, Chen Guanrong, Zhang Hai-Tao.

Keywords for this news article include: Huazhong University of Science and Technology, ***Biodiversity***, Ecology, Science.

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**Classification**

**Language:** ENGLISH

**Document-Type:** Expanded Reporting

**Publication-Type:** Newsletter

**Subject:** ***BIODIVERSITY*** (94%); ***BIODIVERSITY*** CONSERVATION (90%); COLLEGES & UNIVERSITIES (90%); EXPERIMENTATION & RESEARCH (90%); INVESTIGATIONS (90%); RESEARCH REPORTS (90%); ECOLOGY & ENVIRONMENTAL SCIENCE (89%); MATH & SCIENCE EDUCATION (89%); CONSERVATION (79%); ECOSYSTEM CONSERVATION (79%); JOURNALISM (78%); WRITERS (78%); ARTIFICIAL INTELLIGENCE (62%); ***Biodiversity***;Ecology;Science (%)

**Industry:** COLLEGES & UNIVERSITIES (90%); PUBLISHING (78%); WRITERS (78%); ARTIFICIAL INTELLIGENCE (62%)

**Geographic:** WUHAN, HUBEI, CHINA (58%); CHINA (52%)

**Load-Date:** June 28, 2023

**End of Document**