

Científicas; IUCN Species Survival Commission, Gland, Switzerland; and Provita, Caracas, Venezuela  
E-mail [jonpaul.rodriquez@gmail.com](mailto:jonpaul.rodriquez@gmail.com)

### Rediscovery of *Rhododendron adenosum* in south-west China

*Rhododendron adenosum* was categorized as Extinct in the Wild both in the *Red List of China's Biodiversity—Higher Plants Volume* in 2013 and by Qin et al. (2017, *Biodiversity Science*, 25, 745–757). Other than the specimens collected by Joseph Charles Francis Rock in 1929 (Davidian, 1978, *The Quarterly Bulletin of the American Rhododendron Society*, 32, 81–85), the species had not been collected in the type location in the Kulu Mountains in Muli county, south-west Sichuan, although four specimens of *Rhododendron* aff. *adenosum* were collected in 1984 and 2008 in the Luoji Mountains (c. 130 km from the type location) in Puge county, south-west Sichuan. These four specimens did not, however, have flowers, precluding definitive identification.

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As only one individual *R. adenosum* is currently known it should be categorized as Critically Endangered on the IUCN Red List and as a Plant Species with an Extremely Small Population (Ma et al., 2013, *Biodiversity and Conservation*, 22, 803–809). In addition to field surveys, propagation experiments will be performed once seeds have been collected in the autumn, and we are discussing with local nature reserves ways to protect the single known individual.

GANG YAO ([orcid.org/0000-0002-3628-7088](https://orcid.org/0000-0002-3628-7088)), DETUAN LIU, WEIBANG SUN and YONGPENG MA Key Laboratory for Plant Diversity and Biogeography of East Asia, Chinese Academy of Sciences, Yunnan Key Laboratory for Integrative Conservation of Plant Species with Extremely Small

Populations, Kunming, Yunnan, China  
E-mail [mayongpeng@mail.kib.ac.cn](mailto:mayongpeng@mail.kib.ac.cn)

### Natural remedies for Covid-19 as a driver of the illegal wildlife trade

The Covid-19 crisis has highlighted the importance of connections between wildlife and the emergence of novel pandemic diseases in humans (Zhou et al., 2020, *Nature*, 579, 270–273). The wildlife trade is hypothesized to have played a role in the origins of the current pandemic, resulting in calls for restrictions on the legal wildlife trade, and greater enforcement against the illegal wildlife trade, on public health grounds. There is also speculation about how the pandemic might affect the illegal wildlife trade by making consumption of wildlife products less socially acceptable, or because lockdown measures and travel restrictions may hamper effective regulation of the illegal wildlife trade. Here we highlight a case where Covid-19 is increasing demand for illegal wildlife trade products used as perceived natural disease remedies, drawing on long-term monitoring of the illegal wildlife trade in the northern Caspian Sea.

The illegal wildlife trade in the Caspian region is a significant environmental threat, particularly unregulated illegal fishing targeting the six native Caspian sturgeon species, all of which are Critically Endangered, for their meat and roe (caviar), and for the endemic, Endangered, Caspian seal *Pusa caspica*. Seals are deliberately targeted and caught as sturgeon fisheries bycatch (Dmitrieva et al., 2013, *PLOS ONE*, 8, e67074; Ermolin & Svolkinas, 2018, *Marine Policy*, 87, 284–290). Their pelts are used in the fur trade, and other body parts in traditional medicine. Seal blubber is rendered for oil, which is used as a general health tonic in the Caspian region, as are rendered fats from sturgeons, bears, badgers, wolves and other species (Dmitrieva et al., 2013, op. cit.; L. Svolkinas et al., unpubl. data). Targeting seals and trading in their products is illegal, but compared to other illegal wildlife trade products such as elephant ivory, the trade is not strongly regulated and is not fully clandestine. Fishermen typically sell seal carcasses to middlemen, who render the blubber and wholesale the resulting oil to retailers, with the final product traded openly in regional street marketplaces selling food and household goods.

Our long-term qualitative and quantitative monitoring of marketplaces in the Russian region of Dagestan, in the northern Caspian, shows a trade in seal and sturgeon oil of at least 1,000 l per year. Seal oil is considered particularly effective in treating respiratory diseases, including bronchitis, asthma, sinusitis, coughing, colds, pneumonia and tuberculosis. Since the arrival of Covid-19 in the region in March 2020, eight interviews undertaken by LS with key actors in the wildlife oil trade revealed that demand has risen