Project title	BIOCURE: A medicinal plant perspective for potential viral inhibitors for
	severe SARS-CoV2 acute infection
Principal Investigator	Dr. N. Senthilkumar
Co-Investigators	Smt. R. Sumathi
Project duration (Start & End)	3 years: 2021-2024
Objectives	 Isolation, identification and characterisation of antiviral compounds from the selected medicinal plants for SARS-CoV-2 Testing the efficacy of antiviral compounds using molecular docking. Standardisation of effective procedure to downstream the process for extraction of antiviral compounds. Stakeholder's interaction with AVP, Kottakkal Ayurveda, Himalayas and representatives from Ayush, ICMR and NMPB for future strategies.
Progress	 Surveys were conducted extensively in Western, North- Western, Cauvery Delta and Southern zones of Tamil Nādu and coastal zone of Karnataka. 8 plant samples were collected from 19 locations in 5 districts located at 4 agro climatic zones of Tamilnadu. Collected leaf and bark samples of <i>Wrightia tinctoria</i> from Periya Thadagam hill area, Kailasampalayam (Thiruchenkode Tk) Topslip, Coimbatore and MTR, Tirunelveli. Stem samples of <i>Cissus quadrangularis</i> from Periya Thadagam hill area, Bellathi (Karamadai) and MTR, Tirunelveli; leaf and root samples of <i>Boerhavia diffusa</i> from Pollachi and leaf and root samples of <i>Cassia occidentalis</i> from three different beats at Thuvaipathi, Anaikatti reserved forest areas and Topslip. Leaf, bark and root samples of <i>Stereospermum suaveolens</i> from MTR, Tirunelveli; leaf samples of <i>Volkameria inerme</i> from Pichavaram and Coimbatore. Collected samples were processed and subjected to aqueous and organic solvents (ethanol and Pet. ether) extractions. The <i>Wrightia tinctoria</i> leaf extract contains Flavonoids, Sterols, phenols, proteins and terpenoids in aqueous and terpenoids were present in all three extracts of <i>Cassia occidentalis</i>.
Funding agency	ICERE