

BIODIVERSITY PROJECTS

UNIVERSIDAD DE CALDAS

Topic	Water
Project	Water potabilization for human consumption and depuration of waste and industrial water by conventional, electrochemical and advanced oxidation (POAs) methods for removal of organic and inorganic material, and pathogens.
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Observations

Study of the removal of organic material and pathogens from natural water for consumption through the advanced process of oxidation (CWPO – Catalytic Wet Peroxide Oxidation)

Determination of by-products from the chlorine disinfection – Treatment System of water for human consumption at the water treatment plant El Mirador in Viterbo, Caldas.

Removal of contaminant agents via electrocoagulation. Mercury, arsenic, cyanide and other heavy metals from residual waters from mining origins through electrolytic methods.

Design, construction and start up of a pilot plant for the treatment of waste water through electrocoagulation. Design and construction of an electrochemical reactor for treatment of waste water, a by-product of fique (a vegetable fiber) in the town of Caldas, Colombia.

Project	<p>Preliminary study of periphytic algae as indicators of water quality and its relationship to physiochemical variables.</p> <p>Use of bioindicators in integrated management of water resources.</p> <p>Molecular detection and diagnosis of <i>Cyrtosporidium</i> spp. present in water destined for human consumption.</p> <p>Limnologic study of lagoons in the paramos in the Park of Los Nevados as indicators of climate change.</p>
Topic	Water
Contact	Daniel Ricardo Toro Castano
Area	Natural Park of Los Nevados
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Topic	Medicinal plants
Project	<p>Research Group from the Department of Health Sciences at the University of Caldas, started as a project with Colciencias, and currently provides telemedicine services in 16 specialities for the following Departments: Caldas, Chocó, Guanía, Vaupés, Quindío, Risaralda, Nariño and Putumayo - together with the Ministry of Social Services, CAPRECOM, the Governor of Caldas and the Territorial Direction for Health Services in Caldas.</p>
Area	Present in 68 hospitals in eight departments in Colombia.
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Observations	<p>Telesalud – telemedicine services – allows the poorest and most remote national territories to access specialized medical services below market prices and without having to travel.</p>