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# Importance of X-ray diffraction for the economic and industrial development of Latin American countries

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Countries of the Latin American and Caribbean region demonstrate a clear lag in progress towards the 2030 Agenda for Sustainable Development adopted by all United Nations Member States in 2015. This lag seems to become more evident after the pandemic caused by the coronavirus SARS-CoV-2, and one of the most overdue SDGs is 9: Industry, innovation and infrastructure. Large regional research centers appear to be a good strategy to advance this objective and contribute to the inclusion of women scientists with multidisciplinary training. Particle accelerator rings work around laboratories dedicated to contributing to the scientific priorities of the regions. This means, laboratories of Crystallization of Macromolecules, Mass Spectrometry, Nuclear Magnetic Resonance, Spectroscopy and Calorimetry, Biophysics of Macromolecules, High-Performance Sequencing, Metabolomics, Bioprocess Development and Scale-up, Microscopy, Spectroscopy and light scattering, Device manufacturing, Materials synthesis, Nanotoxicology and nanosafety, which have historically had a high participation of women scientists. All these laboratories generate jobs, build technical capacities for men and women, and train generations of doctors for our countries. This presentation shows statistics that demonstrate a high participation of women scientists using large research centers where transdisciplinarity and gender equality are considered fundamental.

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