**Guillermo Moyna Borthagaray**

**THE RESEARCH**

Dr. Guillermo Moyna Borthagaray is a professor at the Centro Universitario Regional (CENUR) Litoral Norte, Universidad de la República (UdelaR), in Paysandú, Uruguay. He obtained his Ph.D. in Organic Chemistry form Texas A&M University under the direction of Prof. A. I. Scott (F.R.S.) in 1998. His graduate work dealt with the conformational analysis of biologically-active compounds using a combination of synthesis, NMR spectroscopy, and computational chemistry. Following a short postdoctoral stay in the group of Prof. Randy Zauhar at the University of the Sciences in Philadelphia (USciences), he joined the faculty of the same institution. During his tenure at USciences, Guillermo pursued several research endeavors in areas that ranged from synthetic and medicinal chemistry to NMR spectroscopy and material science. He also directed the institutional NMR facility, and helped establish the West Center for Computer Aided Drug Design and Discovery (WC2D3). As part of a university-wide decentralization project of the UdelaR, he returned to Uruguay in 2011 to head the Departamento de Química del Litoral (DQL) of the CENUR Litoral Norte. In addition to the research activities developed while at USciences, his group began to work on the application of NMR-based metabolomic analysis to a variety of problems of the health and agroindustrial sectors. These include the development of chemometric tools for the diagnosis of kidney disease, the monitoring of health markers in dairy cattle and other production animals, and the selection of pest-resistant cultivar varieties of barley and other crops. Throughout his career in Uruguay and abroad, Guillermo has participated in more than 20 funded research projects, mentored two postdoctoral, 13 graduate, and 28 undergraduate students, and authored 76 peer-reviewed publications and 7 book chapters. [More information.](https://exportcvuy.anii.org.uy/cv/?2cebe78e18fa760a7d79dd8a0021057dde02e9333677a6c5fcca4cd9f2ebc8ff20700be3044d46d4a23ffbe14bb8f73a516209099e443241db3b37bd796008fb)

**THE LAB**

* Three-channel Bruker AVANCE III 500 with 1H/13C/15N and 1H/13C/31P TXI probes.
* Two-channel Bruker AVANCE III 400 with BBOF and 1H/13C SEI probes and SampleXpress 60.
* Access to two-channel Bruker AVANCE NEO 400 with BBI probe.