## One-pot Synthesis of cyclic analogues of hexamethylenebis(3-pyridine)amide (HMBPA)

<u>Eduardo González-Zamora</u>, Angel Zamudio-Medina, Ma. Carmen García-González, Atilano Gutierrez-Carrillo

Universidad Autónoma Metropolitana, México, D.F., Mexico

A series of cyclic analogues of hexamethylenebis(3-pyridine)amide was prepared based upon a Ugi–3CR and aza-Diels–Alder reaction as a post-functionalization in a one-pot process. A simple condensations of commercially available diamine and aldehydes followed by isonitrile □lpha-addition provides the oxazoles intermediates, finally an aza-Diels–Alder cycloaddition and ring-opening using maleic anhydride provides the desired compounds in modest overall yield (12 examples, 6-69%) in approximately 40 min using microwaves as the heat source and scandium (III) triflate as a catalyst. The lecture will describe our efforts in achieving the construction of final compounds in a "one-pot" process.