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Prof. Feitosa graduated in Industrial Chemistry and Chemical Engineering from the Federal University of Ceara (UFC), Brazil, and holds a doctorate in Chemistry obtained from São Paulo University. She has been a full professor at the Department of Organic and Inorganic Chemistry at UFC since 1999, where she founded the Laboratory of Polymer Chemistry for which she currently acts as a coordinator. She has experience in characterizing natural polymers obtained from the diverse biota of Brazil, in particular polysaccharides, for which she also studies the biological applications. Other work includes the encapsulation of drugs in nano/micro particles and important systems include polyelectrolyte complexes between chitosan and anionic gums. Attempts have been made to find drug delivery systems which allow better treatment of tropical, and in some cases neglected, diseases such as malaria, schistosomiasis and cancer. The exudate from cashew tree in original or modified form and chitosan are the main polysaccharides studied. Derivatizations include carboxymethylation, oxidation, graftization and hydrophobization (carried out in order to obtain self-assembled nanoparticles). Grafts with acrylic acid and N-isopropylacrylamide have been prepared to obtain smart systems (pH and temperature responsive). Other notable contributions include being a member of the Nanoglucobiotechnology Network supported by CNPq (Brazilian Federal Government research funding agency).