

## Scientific interests of members of Advisory Board.

Contribution from Professor Marguerite Rinaudo,  
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For a very long time, Pr Rinaudo worked mainly on relation between chemical structure and physic-chemical properties of polysaccharides. Then, she worked from 1985 on chitin and chitosan and mainly developed studies on the characterization of these biopolymers (degree of acetylation, molar mass, stiffness). After, she studied the preparation of pure chitin and chitosan from natural sources trying to preserve the molar mass and control the degree of acetylation (using chemicals or enzymes). She also developed research on specific chemical modification to obtain negatively or positively charged polyelectrolytes. Additionally, Pr Rinaudo studied the mechanism of stabilization of liposomes made of zwitterion surfactant by adsorption of chitosan and the electrostatic complex formed by surfactant/chitosan.

Recently, the influences of MW and degree of acetylation of chitosan on biological activity of chitosan were investigated.

Pr Rinaudo wrote recently 3 chapters for books concerning Chitin/chitosan as biomaterials.