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ARACELI SOLIS GOMEZ

ACADEMIC EXPERIENCE

THESIS THEME (MASTER DEGREE)

"Formation of condensed structures of tubulina for polycations" Biomateriales Laboratory-Physics Institute / Faculty of Chemical Sciences / San Luis Potosi Autonomous University (UASLP). Adviser: PhD. Miguel Angel Ojeda Lopez Presentation: **20-September-2006**

In this work one tries to study the formation and organization of rings of tubulina. These rings have been observed recently in the process of despolimerización of the microtubules. For it there were realized experiments of formation of rings using diverse cations and characterizing the structure by spectroscopic techniques as ultraviolet-visible (UV-VIS), Fluorescence, Circular Dichroism (CD) and the microscopy techniques as Microscope Electronic Transmission (MET) and Microscope Differential Interference Contrast (DIC).

THESIS THEME (CHEMICAL ENGINEER)

"Glucose Oxidase Adsorption on Self-Assambled Polyelectrolyte Multilayers" Polymers laboratory-Physics Institute / Faculty of Chemical Sciences / UASLP. Adviser: PhD Elias Perez Lopez. Presentation: **Junio-2003**

With the intention of studying Glucose Oxidase adsorption (GOX) on layers of self-assembled polyelectrolytes (PEA), experiments of Atomic Force Microscopy (AFM), Optical Wave Light Spectroscopy (OWLS), Fluorescence Resonance Energy Transfer (FRET) and Circular Dichroism (CD) were made. The results show evidences of correct adsorption of GLX on the polyelectrolytes. Distribution, orientation, penetration and conformation of the proteins on these surfaces are the main parameters of study. Work realized in collaboration with the University of Medicine in Strasbourg France. (Analysis and Presentation of Results elaborated during the social service)

SOCIAL SERVICE

Polymer laboratory / Physics Institute / UASLP. Area: Physical Statically Investigation. Person in charge: PhD. José Elías Pérez López. Period: On August 20, 2001 to August 21, 2002

Development of work of investigation inside the facilities of the Physics Institute. I acquired the knowledge of the work in laboratory, the beginning of the investigation of the project of thesis of licentiate for obtaining of the degree of Chemical Engineer (Work of laboratory, Search of bibliography, Application of Characterization techniques).