

Avviso di seminario

9 aprile 2025 ore 15.00

Sala Parravano (primo piano, edificio di Chimica CU014)

“...from Italy to Poland”

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Abstract

This presentation aims to introduce the Faculty of Chemistry at Adam Mickiewicz University in Pozna  and foster both scientific and educational collaborations. By showcasing our research activities and expertise, we hope to establish new partnerships and exchange knowledge in the field of chemistry.

This presentation explores the influence of polyamines on metal complexation, focusing on their role in biological systems and coordination chemistry. Polyamines are naturally occurring compounds in the human body, and their concentration increases significantly in cancerous tissues. This raises important questions about their impact on metal-ligand interactions and coordination mechanisms. The study examines how polyamines affect the formation of coordination complexes, revealing that despite identical compositions, distinct coordination isomers emerge. However, at physiological pH and high polyamine concentrations, no further structural variations occur, suggesting a stabilization of the preferred coordination form.

The findings provide valuable insights into the biochemical behavior of polyamines and their potential implications for medical and pharmaceutical research. Additionally, the presentation highlights the broader significance of coordination chemistry in understanding biological processes. By investigating the intricate balance of metal ions and organic molecules, this research contributes to a deeper understanding of molecular interactions essential for life sciences.