

Faculté de pharmacie

Séminaire de l'axe «Formulation et analyse du médicament»



« Biopharmaceuticals : A Challenge in Pharmaceutical Analysis »

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11h00 – salle S1-125

Pavillon Jean-Coutu

À l'invitation du professeur Jeanne Leblond-Chain

Peptides, proteins and monoclonal antibodies (mAbs) are now recognized as powerful therapeutic agents for the treatment of cancer, sclerosis or osteoporosis. In this context, dedicated analytical methodologies should be developed to characterize these complex biomolecules. Historically, electrodriven separation approaches were used for their analysis. However, due to the recent advances in liquid chromatography, the latter could also be considered as a viable strategy. Beside conventional ion exchange chromatography (IEX) and size exclusion chromatography (SEC), reversed phase liquid chromatography (RPLC) has indeed a great potential to analyse native products as well as to resolve degradation products, dimmers and charge variants in drug formulation. The lecture will focus on the description of capillary zone electrophoresis and more particularly on liquid chromatography approaches for the characterization of these biomolecules, i.e. peptides, proteins and monoclonal antibodies. Various real-life examples of commercial proteins and mAbs analyses will be discussed.