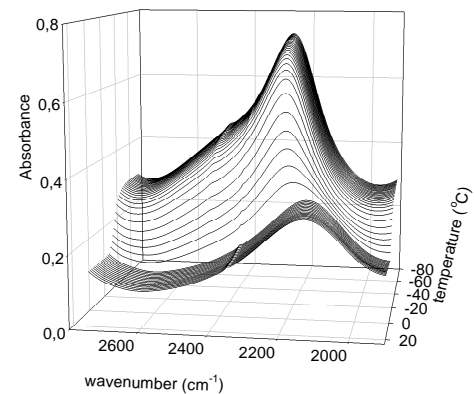
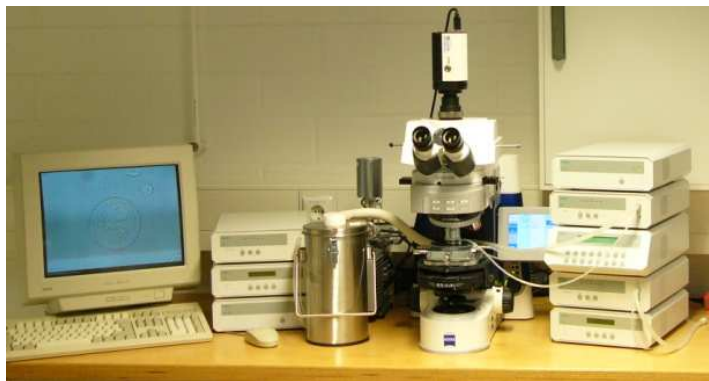


MSc Project

Mechanical Engineering / Biomedical Engineering

Cryopreservation of cells studied by cryomicroscopy and infrared spectroscopy



Project description:

The aim of cryopreservation of cells is to increase their shelf life. Freezing, however, can be very damaging to cellular and macromolecular structure. Membranes in particular are damaged during cryopreservation processing. In this study an advanced cryomicroscopic system and Fourier transform infrared spectroscopy will be used to study the effect of ice formation on various mammalian cells in the presence and absence of cryoprotective agents. The aim of the studies is to improve cryopreservation strategies.

Type of work: experimental

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