

Objective 1	Modulatory role of melatonin in circadian desynchrony and NAFLD.
Study 1	Validation of invitro hepatoprotective role of melatonin in OA treated HepG2 cells.
Study 2	Alterations in clock genes in OA treated HepG2 cells: Role of Melatonin
Study 3	Alterations in NRF-ARE pathway in OA treated HepG2 cells: Role of Melatonin.

Objective 2	Deciphering role of melatonin in a jet-lagged model of NAFLD
Study 1	Effect of Jetlag, HFHF and exogenous melatonin on physical parameters, Lipid profile and status of liver: Improved status of experimentally induced NAFLD.
Study 2	HFHF and/or JL induced chronodisruption in Nonalcoholic fatty liver disease: Role of exogenous melatonin.