

RESEARCH PROJECTS

1. The role of cytokine filtration during in lung transplantation
2. Reconditioning of marginal donor lung in ex vivo lung perfusion system using perfluorocarbon based oxygen carrier
3. Inhibition of ischemia reperfusion injury using ATP sensitive potassium channel modulators in ex vivo lung perfusion system in lung transplantation
4. Protective effect of NAD⁺ during organ preservation solution and during ex vivo lung perfusion in lung transplantation.
5. A small animal model for reconditioning marginal donor lung in ex vivo lung perfusion system using an advanced perfluorocarbon emulsion before transplantation.
6. Sub-normothermic ex vivo lung perfusion in small animal model
7. The role of cytokine filtration during ex vivo lung perfusion
8. Ex vivo reconditioning of donor lungs with Trimetazidine after prolonged cold ischemia
9. Ex vivo reconditioning of donor lungs with inhaled N-Acetyl cysteine after prolonged cold ischemia
10. Ex vivo evaluation and resuscitation of human donor lungs rejected for transplantation.
11. Reconditioning of category 3 non-heart beating donor lungs insulted to gastric aspiration: Utilization of ex vivo lung perfusion system.
12. Prevention of primary graft dysfunction in lung transplantation by N-Acetylcysteine after prolonged cold ischemia.
13. Ex vivo reconditioning of marginal donor lungs injured by acid aspiration.
14. Impact of topical cooling solution and prediction of pulmonary graft viability from non-heart-beating donors
15. Attenuation of lung ischemia-reperfusion injury after lung transplantation using N-acetylcysteine (Rat Model)
16. Protection the energy status after ischemia and reduction of reperfusion injury in a rat single-lung transplant model using Trimetazidine
17. Attenuation of posttransplant lung ischemia-reperfusion injury with melatonin

