

Medical Research With Neonatal Organs and Tissue

Fast Facts	Organ	Areas of Research
<p>Cardiovascular Disease</p> <ul style="list-style-type: none"> Heart disease is the #1 cause of death in the U.S. About 86 million Americans are living with some form of cardiovascular disease or the after-effects of stroke. 	 <p>Heart</p>	<p>Heart researchers now have the ability to identify markers that may predict future cardiac disease for people at risk. These discoveries will make preventative approaches more probable.</p>
<p>Chronic Kidney Disease</p> <ul style="list-style-type: none"> An estimated 31 million people in the U.S. (10% of the population) have chronic kidney disease which leads to renal failure. The only treatment for this is dialysis and transplantation. 	 <p>Kidney</p>	<p>Kidney researchers have found a direct link in chronic kidney disease (CKD) due to a decreasing trend of nephrons or kidney cells.</p> <p>The ability to study immature, developing kidneys helps researchers understand the very basic information regarding the number of nephrons with which we are born, enabling physicians to target patients most susceptible to CKD.</p>
<p>Acute & Chronic Liver Diseases</p> <ul style="list-style-type: none"> 8.6 million people in the U.S. are affected with some form of liver disease. Of these, almost 4 million have antibodies indicating infection or prior exposure to the chronic Hepatitis C virus. 	 <p>Liver</p>	<p>Liver researchers have never before been able to explore immature liver cells before they are assigned the role of stem cell vs. hepatocytes. The information acquired will hopefully unlock secrets of liver diseases such as hepatitis, high cholesterol and fibrosis.</p>
<p>Pulmonary Disorders</p> <ul style="list-style-type: none"> Preterm birth annually affects more than 450,000 babies; that's 1 of every 9 infants born in the U.S. One-third of severely premature babies develop Respiratory Distress Syndrome or Bipolar Pulmonary Dysplasia. Survivors of RDS and BPD can be at risk of chronic lung disorders. Other data reveals that 10% of all premature infants develop RDS; 12,000 babies in the U.S. develop BPD per year. 	 <p>Lung</p>	<p>Lung researchers can now look at how lung tissues and cells develop. This will allow researchers to create a 'map' of development. With the newly found information, treatment of early childhood and chronic lung disorders, often a result of premature births, will hopefully be minimized.</p>
<p>Diabetes</p> <ul style="list-style-type: none"> In 2012, over 29 million Americans or 9.3% of the population, had diabetes. Also in 2012, approximately 1.25 million adults and children were diagnosed with Type 1 Diabetes, of which there is currently no cure. Diabetes is the 7th leading cause of death in the U.S. 	 <p>Pancreas</p>	<p>For the first time, researchers are able to study the development of beta cells, the insulin-producing cells which make up the majority of the pancreas. Recent discoveries have shown great variations in the quantity of beta cells with which we are born.</p> <p>Together with the immune system, low beta cells are directly related to someone developing Type 1 Diabetes. This discovery will change the future of Type 1 & 2 Diabetes research.</p>

Virtually any type of neonatal organ and tissue may be considered for medical research. Please contact IIAM for additional information.