



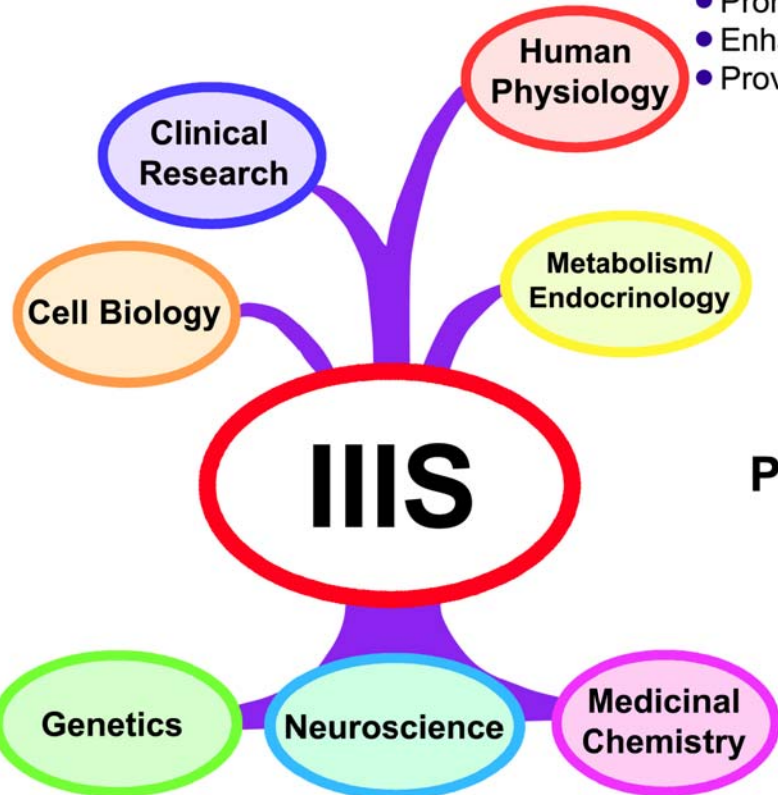
# Missions

- Solve the mysteries of sleep
- Develop novel approaches for sleep disorders
- Contribute to global health

Under strong leadership of Center Director

New means of sleep intervention and medication based on discoveries in basic research

- Produce natural sleep
- Promote activity during waking hours
- Enhance mood stability
- Provide resistance to obesity



Promote health in aging society

- Support healthy and positive aging
- Reduce medical and nursing cost
- Promote a society that young people can have hope for the future



<b>Human health and diseases</b>	Integrative clinical approaches to sleep, mood and metabolic disorders based on basic research	
<b>Multiple aspects of behavior</b>	Examine how sleep, exercise and nutrition are interacted and integrated using gene-modified mice	
<b>Multiple organ network</b>	Examine how brain interacts with peripheral tissues to regulate the systemic metabolism during sleep-wake cycle	
<b>Neural network</b>	Optogenetic approach to visualize and manipulate neural circuits to elucidate neural substrates for sleep-wakefulness behavior	
<b>Intracellular systems</b>	Examine the role of adenosine metabolism, signal transduction and mitochondrial activity in sleep-wakefulness behavior	
<b>Genes and Proteins</b>	Identify novel genes regulating sleep-wakefulness behaviors using a forward genetic approach	