

**Director**  
**Mitinori Saitou**

Mitinori Saitou is a world leader in germ cell biology and *in vitro* reconstitution of germ cell development. The Institute will use a multi-disciplinary approach and uncover the core principles of human traits, including diseased states.

## Purpose

ASHBi investigates the core concepts of human biology with a particular focus on genome regulation and disease modeling, creating a foundation of knowledge for developing innovative and unique human-centric therapies.

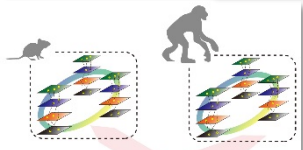
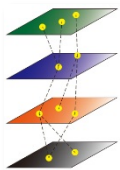
## Features

Genome Sequence

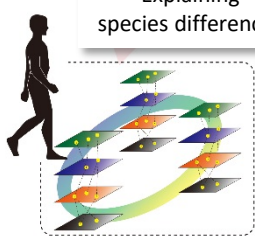
Transcriptome

Epigenome

Nuclear Structure



Explaining  
species differences



Research collaboration between the life sciences and mathematics, and between the life sciences and the humanities

Core facilities with leading-edge technologies, such as single-cell genome information analysis and primate genome engineering

Prioritized support for overseas PIs and links with key international institutions (including EMBL, University of Cambridge, Karolinska Institutet)

Strong links with the Kyoto University Hospital

Prioritized support for early-career PIs

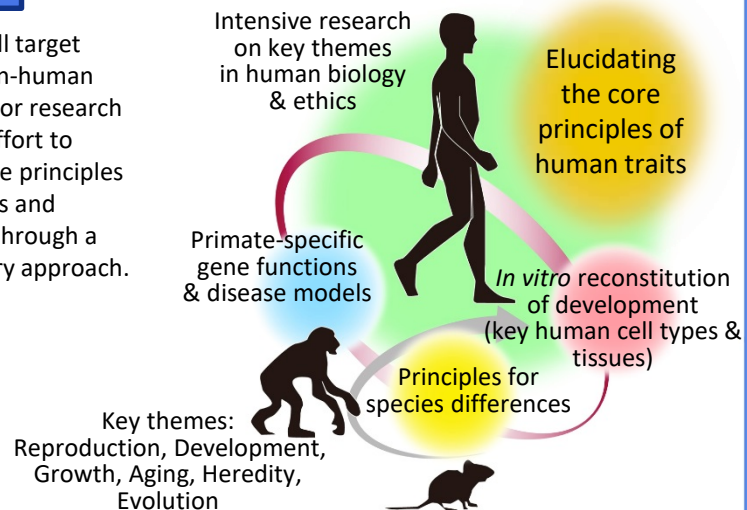


KyotoU Hospital



## Research

The Institute will target humans and non-human primates as major research subjects in an effort to uncover the core principles of human beings and disease states, through a multi-disciplinary approach.



## Satellite

Shiga University of Medical Science  
Research Center for Animal Life Science



The primate genome engineering core will provide macaque tissues and create gene knockout macaques for primate-specific traits for disease modeling and biological analysis.