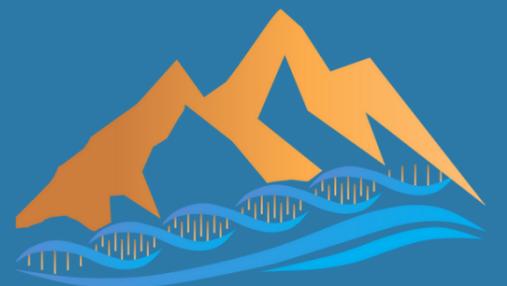


UNDERSTANDING INDUCED PLURIPOTENT STEM CELLS (iPSCs)





iPSCs do not exist in the nature: they are induced or reprogrammed in culture from somatic cells.

Human iPSCs hold many advantages for research and medicine.

1

RESEARCH DISEASE MODELING

iPSCs can be derived from patients with specific diseases. This is particularly **useful for studying rare or complex diseases**, such as neurodegenerative disorders

THERAPEUTIC DEVELOPMENT CELLULAR THERAPIES

iPSCs can be used to generate patient-specific cells for treating degenerative diseases or injuries **minimizing the risk of immune rejection**

3

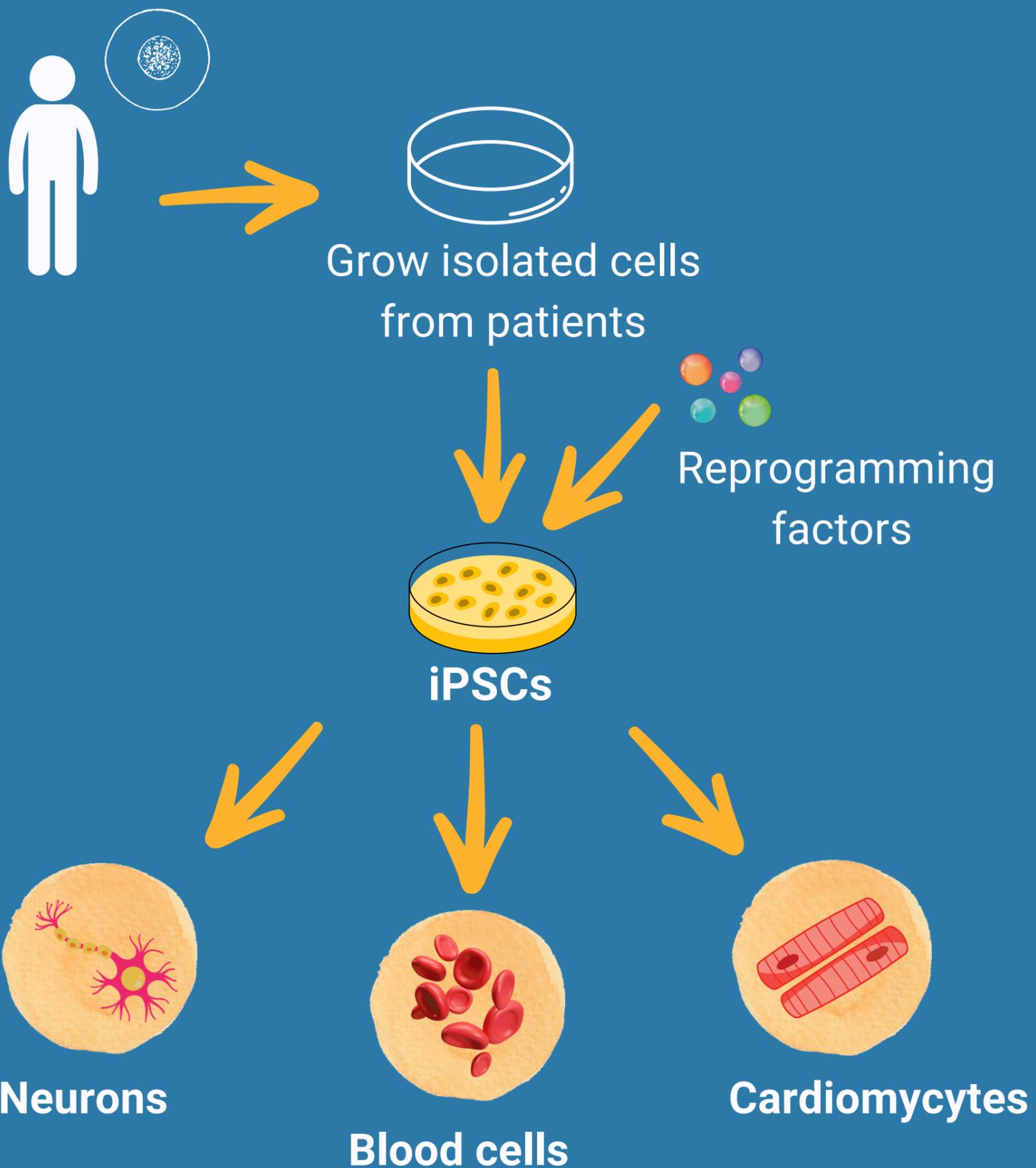
THERAPEUTIC DEVELOPMENT DRUG SCREENING

Patient-derived iPSCs enable testing the efficacy and toxicity of new drugs on disease-specific human cells, thereby **increasing the likelihood of success in clinical trials**

PERSONALIZED MEDICINE TAILORED APPROACHES

By understanding how a patient's cells respond to various treatments, healthcare providers can develop personalized treatment plans that optimize **therapeutic outcomes based on the individual's cellular responses**

HOW TO MAKE iPSCs



At LIRM, we work with iPSCs to model diseases and help tailor drug development.

The LIRM is a non-profit organisation dedicated to improving patients quality of life in the areas of neurodegeneration and aging.

