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Axol Bioscience
SNAPSHOT PRESENTATION
ELRIG ADVANCES IN CELL BASED SCREENING 2017

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Overview

human cell
culture
systems

induced
pluripotent
stem cells

primary
cells

We specialize in the supply of human cell culture systems in particular, induced pluripotent stem cells (iPSCs) and primary human cells.

who are we?



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Overview

human cell
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who are we?

cryopreserved

live pre-plated

At Axol we offer cryopreserved human cells along with media that is tailored to support the growth and maturation of our cells. In addition to providing cryopreserved cells we also provide iPSC-derived cells in culture in a 96-well format so that they arrive ready for your cell-based assays.

We have a large range of iPSC-derived cells spanning many across multiple areas.

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Neuroscience

motor

sensory

cortical

Initially Axol started out within the neuroscience field by producing neural stem cells (NSCs) that can be differentiated into cortical neurons. We have generated iPSC-derived NSCs from a variety of donors including both healthy individuals and patient donors with conditions such as Alzheimer's and Huntington's diseases. These NSCs are excellent for applications in disease modeling and drug discovery.

who are we?

neuroscience

astrocytes

dopaminergic

We have since expanded our portfolio to include iPSC-derived astrocytes (mature and progenitor), dopaminergic neuron progenitors, sensory neuron progenitors and motor neuron progenitors.

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Cardiovascular

cardiomyocytes

The next area to branch into was the cardiovascular field. We offer functionally validated ventricular cardiomyocytes which can be used in toxicology studies.

who are we?

neuroscience

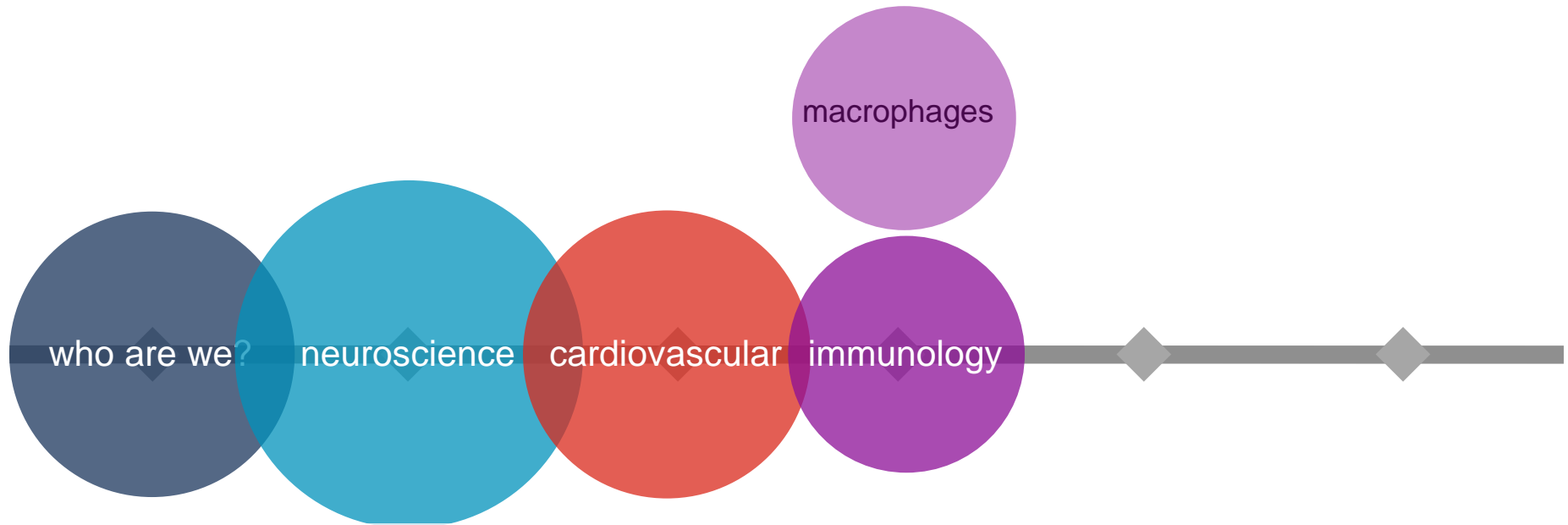
cardiovascular

endothelial
colony
forming cells

We also offer endothelial colony forming cells (ECFCs) which can be used to model angiogenesis or in co-culture to model the blood-brain barrier (BBB).

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Immunology



This month we are branching into the immunology sector by launching our iPSC-Derived Macrophages. These are available in live culture in a 96-well plate format, and will be shipped ready for use from the day of receipt.

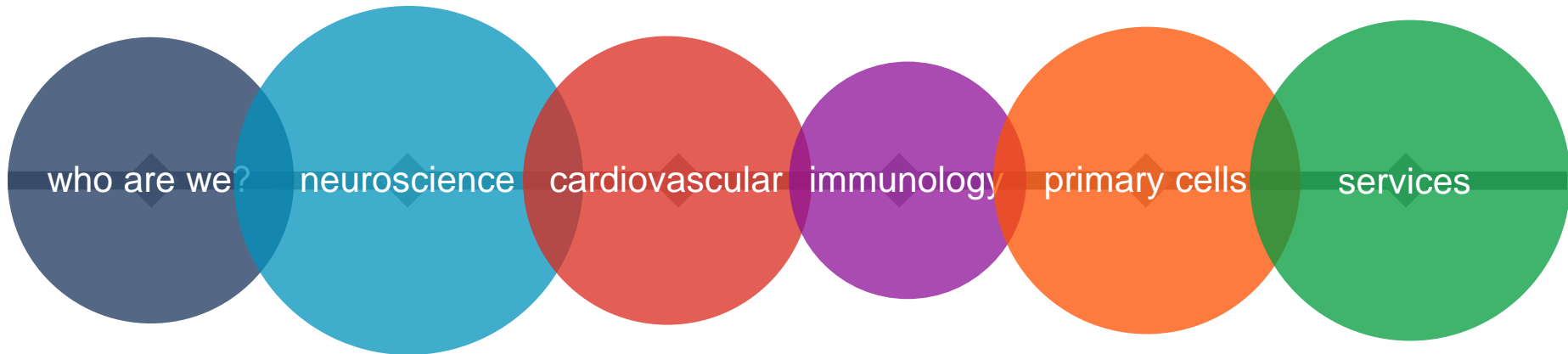
Primary cells

Sometimes it is a struggle to find the cell type you need with the criteria you want derived from iPS cells so Axol provide a very wide range of primary human cells to suit all needs. We have primary cells from endothelial cells to muscle cells and these are available as uncultured or at passage 1 or 2.



Services

Axol provide custom services tailored to your needs

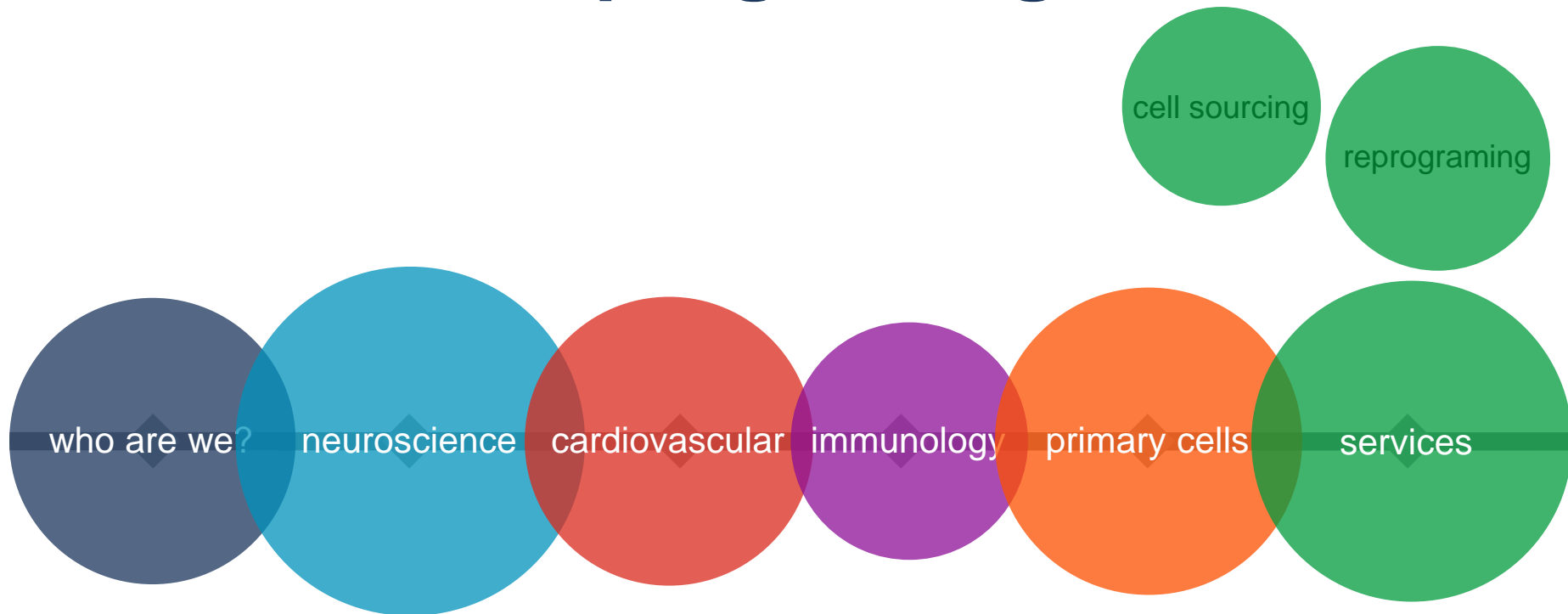


Services – Cell sourcing



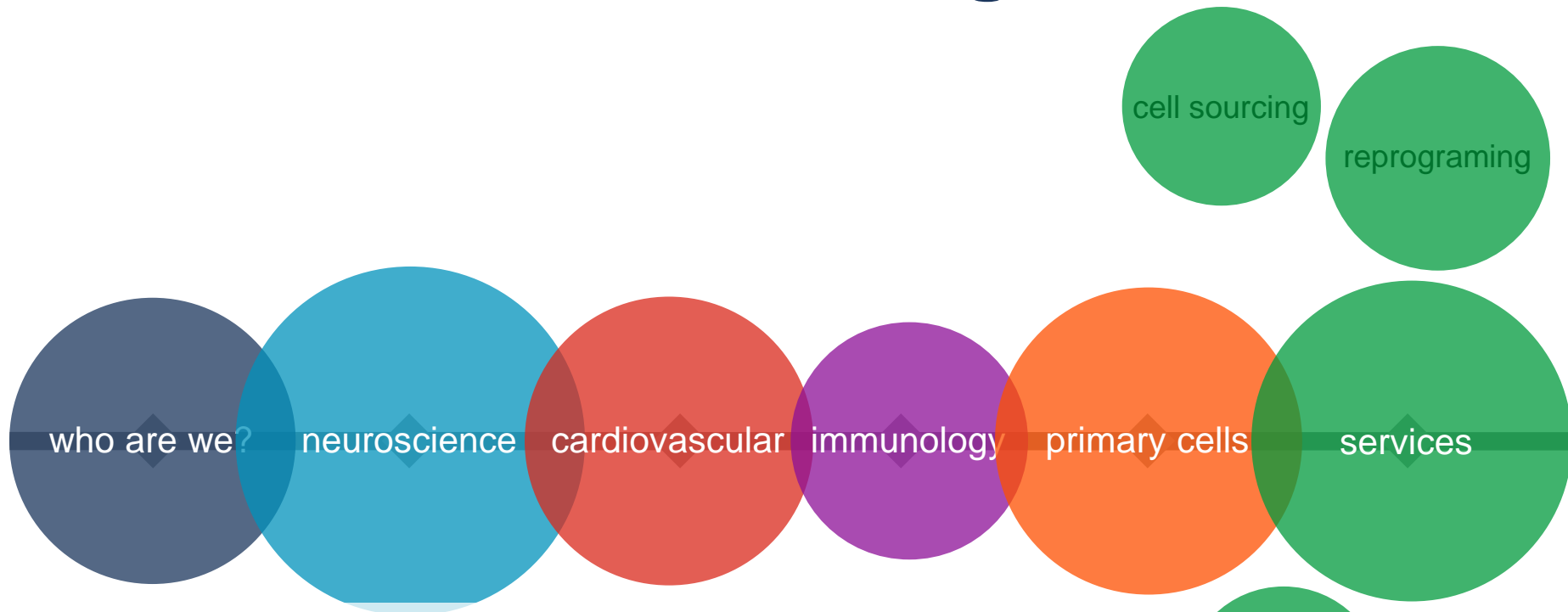
Finding the right cells for your experiments can be difficult especially if you are studying a rare disease or if you have specific donor inclusion/exclusion criteria we specialize in sourcing a wide range of cell types and tissue to suit your needs.

Services - Reprogramming



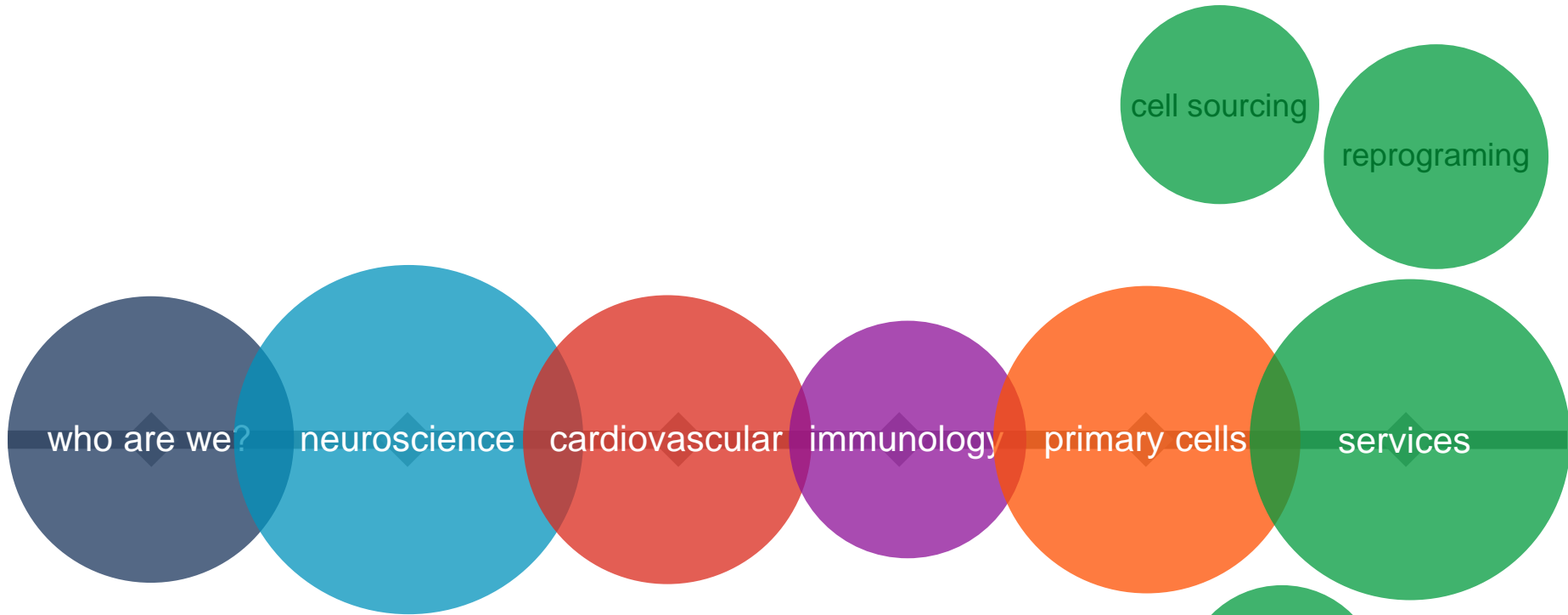
At Axol we are experts in reprogramming and we can provide custom reprogramming of dermal fibroblasts or peripheral blood mononuclear cells (PBMCs) using episomal vector or Sendai virus reprogramming methods to generate iPSCs.

Services – Gene editing



Once the iPSCs have been generated Axol can also offer iPSC gene editing. In partnership with Horizon Discovery, we can introduce the specific mutations tailored for your investigations or create isogenic and reporter cells for use in disease modeling and drug discovery.

Services – iPSC differentiation



We provide custom iPSC differentiation to a variety of cell types. This allows you to generate the cell type that you require with the donor background that you need. At Axol we have a dedicated expert team to carry out all of these custom services and off-the-shelf products.

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Thank you

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