

World class
MHRA-accredited
GMP ATMP
manufacturing
facilities

Cost effective
logistic solutions
to at least 27 major
European cities
within 24hrs

Highly
competitive
funding
environment

Home to
Europe's largest
and most highly
regarded stem cell
research hub

Access to
outstanding
clinical
expertise

Proven track
record in supporting
and implementing
cell therapy clinical
trials

Excellent
availability of
technically trained
workforce for this
sector

Vibrant
commercial
landscape across
the supply chain

SCOTLAND'S STEM CELL SUPPLY CHAIN

Europe's leading location for the
development of stem cell technologies

8 therapies in routine clinical practice or undergoing clinical trials for **Type 1 Diabetes, Corneal Blindness and Ischemic Stroke**

42 top clinicians and highly regarded **Principle Investigators** focusing on pioneering stem cell derived technologies, research or therapeutics in **Neurology, Ophthalmology, Cardiovascular, Gastrointestinal, Oncology and Diabetes**

250 stem cell scientists on one site – Edinburgh BioQuarter, the largest cohort in Europe

Temperature-sensitive material delivered to >27 major cities in Europe within 24 hours from Scotland's central belt

Responsible for >60% of Europe's biosafety testing

avanticell
science

Avanticell
www.avanticell.com

Specialist in physiologically-relevant human cell-based assay with high predictive value presented as primary isolates, as differentiated cell lines or derived from hESC, MSC or iPS stem cell populations.



biogelx

BioGelX
www.biogelx.com

Develops and supplies tuneable and functional peptide hydrogels for 3D cell culture and therapeutic applications which mimic specific cell type environments.



CLYDE BIOSCIENCES

Clyde Biosciences
www.clydebiosciences.com

Contract Research Organisation and Celloptiq instrument supplier offering optogenetic approaches to stem cell characterisation and drug discovery services focused on cardiomyocyte assays and analytics.



COLLAGEN solutions

Collagen Solutions
www.collagensolutions.com

Developer and manufacturer of medical grade collagen components for biomimetic applications in tissue engineering with experience of wound care products.



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dundeecell
PRODUCTS

Dundee Cell Products
www.dundeecellproducts.com

Supplier of sophisticated Quantitative Proteomics (SILAC™) based on stable isotope labeling of amino acids in culture (SILAC) and Drug Discovery services to the academic and biotech/pharma sectors.



Onorach
ensuring your clinical trial stays on track

Onorach
www.onorach.com

Contract Research Organisation offering a full range of services to efficiently and cost-effectively manage the clinical trial development process with knowledge of stem cell clinical trials.



Pharmacells

Pharmacells
www.pharmacells.co.uk

Oristem offers straightforward and pain free adult stem cell storage. ClioCell is an innovative GMP grade product for the removal of dead and dying cells that adversely affect the quality and efficacy of cells in culture.



Roslin Cells

Roslin Cells
www.roslincells.com

Specialist services for the development and manufacture of clinical grade ATMP cell therapies and stem cell research with a track record of delivering cell therapies into the clinic.



Temperature-sensitive material delivered to **5 major Scottish universities hospitals** within 3 hours of Scotland's central belt

\$160M

invested from public funds into the **Scottish stem cell cluster** since 2004

SCOTTISH
DEVELOPMENT INTERNATIONAL

SCOTTISH
DEVELOPMENT INTERNATIONAL

SCOTTISH NATIONAL BLOOD TRANSFUSION SERVICE

Sistemic

Sistemic
www.sistemic.co.uk

Specialist contract research, discovery and development services based on a proprietary micro RNAs allowing stem cell identification, process characterisation and directed differentiation.



TC BIOPHARM

TC Biopharm
www.tcbiopharm.com

Start-up biotechnology company developing a novel anti-cancer immunotherapy using patients' own immune cells for the treatment of various different types of cancer.



\$84M dedicated **Life Sciences VC** with investment partners from companies like **Eli Lilly**

>\$60M

invested in the past **five years** from **Scottish Investment Bank**

>\$60M grant support for **R&D CAPEX** or **salaries** in the past five years from **SE Grants**

Scotland:
Stem cells and regenerative medicine

Scottish Development International
www.sdi.co.uk

Assisting in the growth of the Scottish economy by supporting inward investment to Scotland and trade with Scotland-based companies. Ask us how we can help you identify solutions for your stem cell technology development.



Scottish National Blood Transfusion Service
www.scotblood.co.uk

Specialist services that procure, process, tests, stores and supplies human tissue and cells such as bone for orthopaedic surgery, stem cells for bone marrow transplant and islet cells for type 1 diabetes.

