Large Scale Cell Therapy Manufacturing Centre

Growing a UK Cell Therapy Industry Delivering Health & Wealth

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Current UK Manufacturing Situation

- The UK has a strong research base in the area of cell therapies
- Network of early phase and small-scale manufacturing facilities setup to enable Phase I / II trials
  - 21 currently licensed
  - Total capacity of 1000m²; 22 Grade B rooms, 10 Grade C rooms and 17 suites with Isolators
  - 90 full time staff, 39 part time employed in the UK
  - Good capability
- Located in the NHS or academia or not for profit
- Small-scale and cannot support large late stage trials or commercial manufacture
Demand forecast

Cell Therapy Manufacturing Demand Analysis

- UK Clean Room Capacity
- Clean Room Space Demand - Base Case
- Clean Room Space Demand - Poor Case
- Clean Room Space Demand - Delayed Case
The Investment

The investment by the UK Government is £55m over 5 years

• Recommended by House of Lords
• Recommended by Medicines Manufacturing Industry Partnership
• Capital
• Revenue
  • Start up and initial operating costs
  • Supporting TSB programmes
Operating Model

• Facilitate growth of industry

• ‘Manufacturing hotel’ allowing CMOs and product development companies enable the manufacture at large scale

• Access large scale infrastructure without the capital outlay

• 5000m² Flexible/modular space

• Operated as a subsidiary of Cell Therapy Catapult sharing corporate services
Developing and Delivering the Plan

Location

- Property agent to seek/filter locations
- Establish Industry panel to advise CTC
- Location/Building to Meet User Requirements Brief

Execution

- Design/procure/deliver
- Dedicated focussed resources
Draft User Requirement Brief
-Finalise and publish

- Size and value for money
  - Shell fit out vs. new build
- Design Philosophy/ Conceptual design
  - Processes Enclosed/Non enclosed
  - Autologous /Allogeneic
  - Cell based gene therapies
  - Flexible replicable manufacturing pods
- Logistics
  - Ability to supply time critical products to EU markets
  - Resilience of supply
  - Supply chain
- Workforce
- Client access and expansion
- Catapult support and operability
Contacting the Cell Therapy Catapult

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