

# Fujifilm Diosynth Biotechnologies

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## General Introduction

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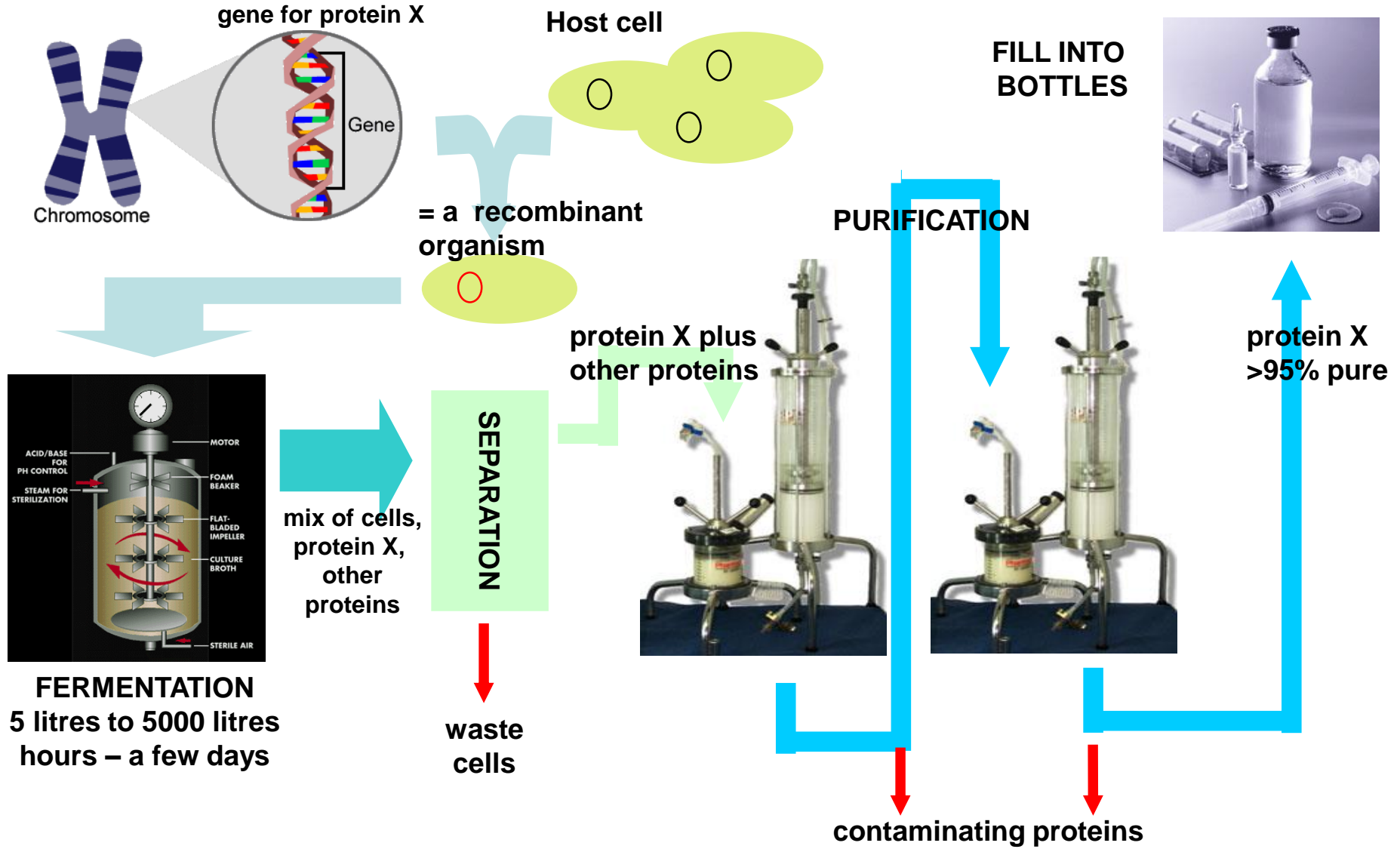


# What do we do?

- ▶ FUJIFILM Diosynth Biotechnologies is a dedicated biopharmaceutical CDMO business
  - CDMO = Contract (*Biopharmaceutical*) Development and Manufacturing Organisation
    - Biopharmaceutical = Protein
  - Contract means we work on our customers products only
  - Sites in U.K., North Carolina and Texas



# The Manufacturing Process



# (R &) D Functional Groups

## Upstream Processing

- Fermentation
- Mammalian Cell Culture
  - Molecular Biology
  - Microbiology
- Primary Separation



## Downstream Processing

- Purification
- Characterization



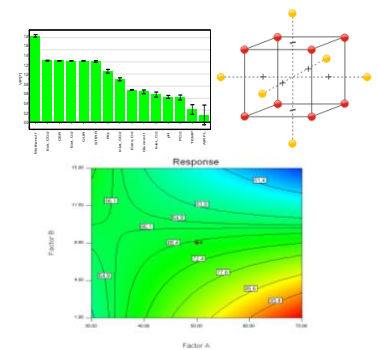
## Analytical Development

- Method Development
- Method Qualification
  - Transfer to QC
- (Pre-)Formulation



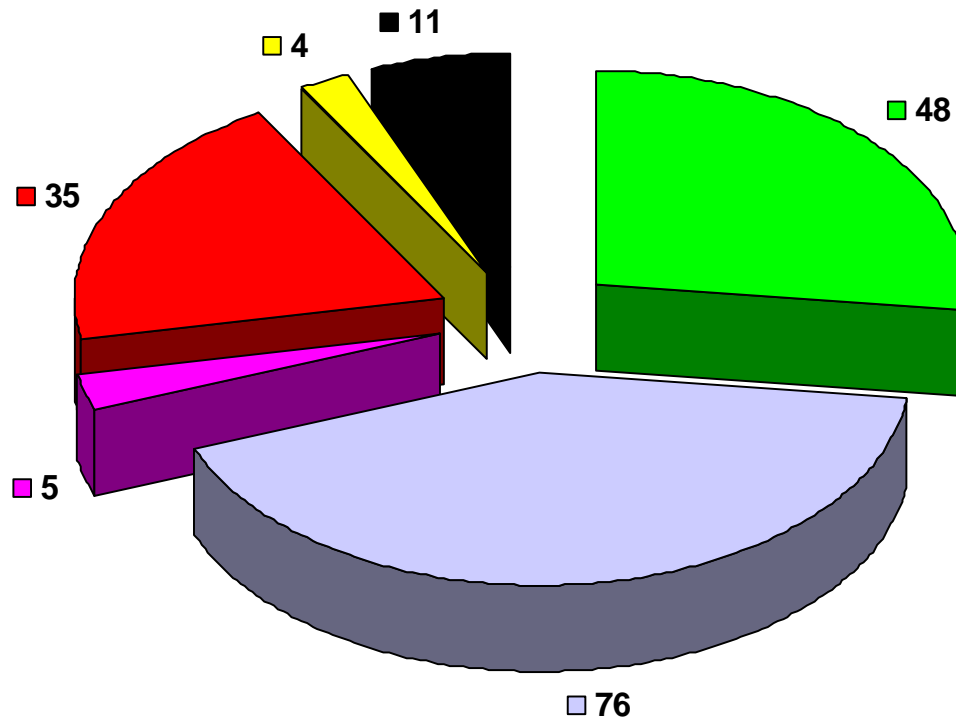
## Process Design

- Process Characterization
- Robustness Studies
- Process Validation



# UK R&D Team Headcount

UK R&D based in Billingham: ~179 staff  
>95% Graduates: >40% Higher Degrees



- ▶ We recruit staff with a range of experience
  - Graduate to post-doc
- ▶ Experience required depends on entry level
  - Is it relevant?
    - Does experience justify an increased salary?
- ▶ R&D = Stepping stone to other careers
  - Business development
  - Project management
  - Commercial
- ▶ But more likely to be employed as scientist initially

# What do we look for?

- ▶ Technical knowledge
- ▶ Right attitude
  - Customer facing
  - Team working
  - Enthusiastic
  - Concern for standards

# Business Headlines



**RTP, NC, USA**  
*Biologics*  
*PD & Manufacturing*



**College Station, TX, USA**  
*Viral Vaccines and Gene*  
*Therapy*  
*PD & Manufacturing*



**Billingham, UK**  
*Biologics*  
*PD & Manufacturing*

- ▶ EU and USA operations
- ▶ ~1000 staff
- ▶ Recombinant proteins and viral vaccines
- ▶ >230 development products and processes
- ▶ 5 Commercial Products  
(3 microbial)
- ▶ Process innovation focus
- ▶ Extensive inspection history

