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INSIGHT REPORT  
Predictive Talent Dynamics – November 2022

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A microscopic view of several cells, likely oocytes or early embryos, with prominent blue-stained nuclei. The cells are surrounded by a clear, gelatinous cytoplasm and are set against a dark, blurred background. A semi-transparent dark band runs horizontally across the center of the image, serving as a backdrop for the text.

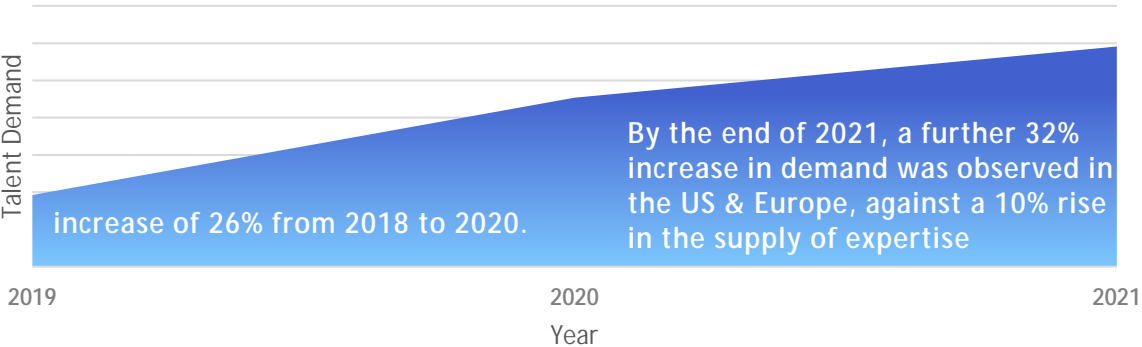
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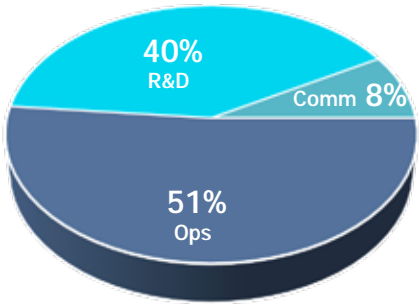
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Executive Summary

Biomanufacturing Hiring:- Yearly Average



Role Postings:  
By Role Type



Top 3 Companies:

Largest Annual Talent Demand Increase  
Normalised versus employee no.



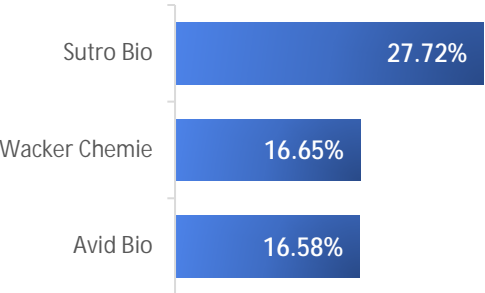
2022

Monthly Hiring Demand Change

▼ -12%

Top 3 Companies:

Largest Monthly Talent Demand Increase  
Normalised versus employee no.





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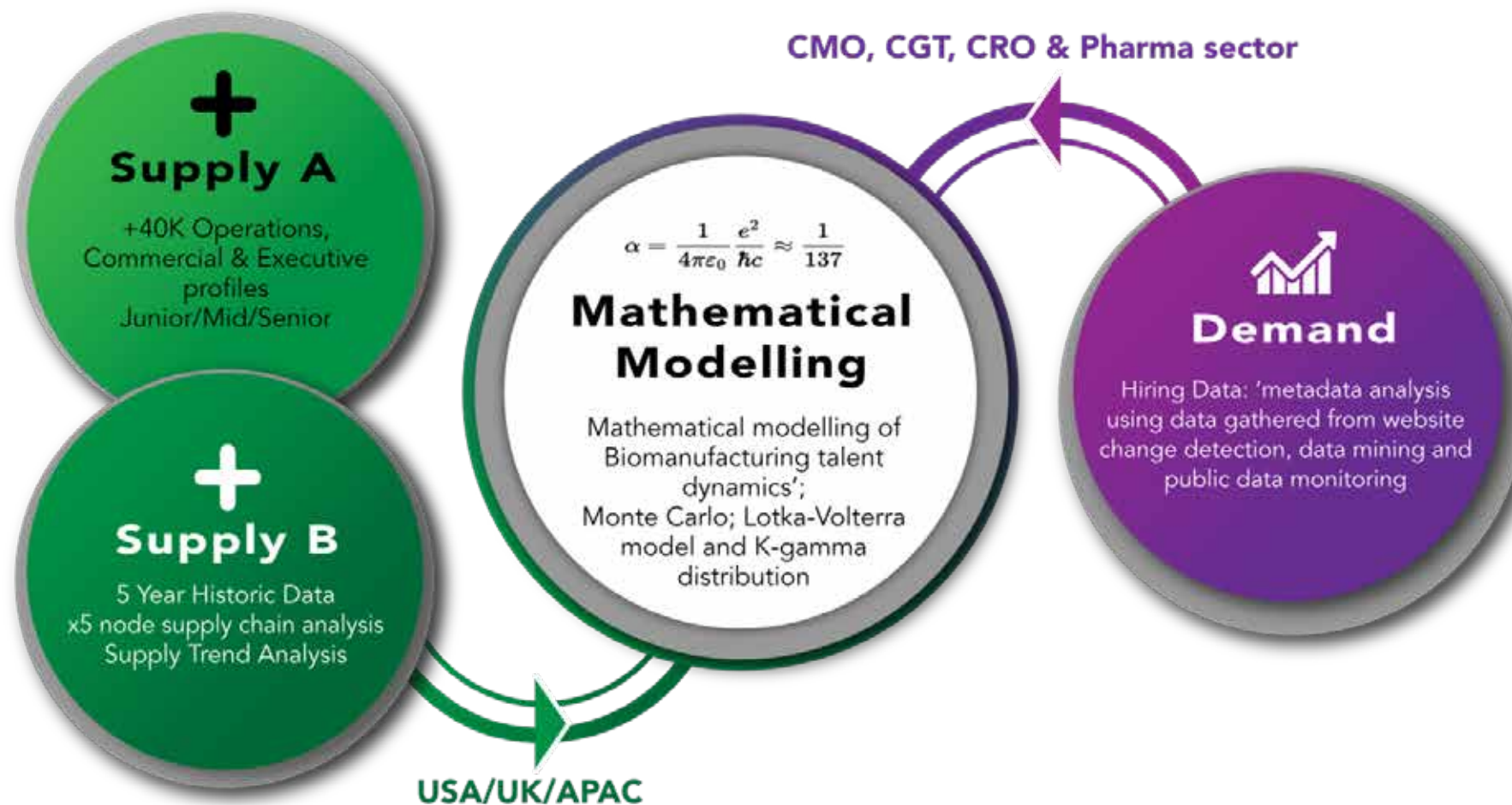
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Introduction and Methodology

# Introduction & Methodology



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# Introduction & Methodology

### Aim

To measure, model and predict 'supply versus demand' of Biomanufacturing talent across the global CMO, CGT and Pharma sectors.

### Research Partners

Evolution Search Partners, [University of Dundee](#), [University College London \(UCL\)](#)

### Purpose

To provide analytical, strategic intelligence to industry leadership to allow future facing workforce planning, aligned to support capital expansion project decisions, recognising the value of human assets for the economic success of the firm.

The outcome data aims to allow specific planning, where required, on creative talent acquisition, specific to segments of biomanufacturing workflows

### Short Term

There is evidence that the bioprocessing sector is experiencing operational and staffing problems directly related to an increase in activity and demand. All sectors are experiencing an increase in R&D, manufacturing, and production, with a shifting of resources towards pandemic response. Most bioprocessing-related industrial activities are considered 'essential' and continue largely unaffected in terms of operations and output, while many are planning to ramp-up R&D and manufacturing. While there are many near-term changes in onsite staff management, broader business plans are generally not affected in the near-term.

Specific to Biomanufacturing talent, CMO and Pharma companies can no longer wait to develop talent strategies. They already have job openings they cannot fill, and the gap is widening as megatrends disrupt and transform biomanufacturing. Adopting talent management programs and processes will help manufacturers attract and retain workers with the desired skill sets. This is a challenge that requires flexibility and insight. And the stakes are high. Manufacturers with an engaged and skilled workforce will be more likely to enjoy a successful and sustainable future.

### Long Term



A microscopic view of several cells, likely oocytes or early embryos, with prominent blue-stained nuclei. The cells are surrounded by a clear, gelatinous cytoplasm and are set against a dark, blurred background. The lighting is soft, highlighting the texture of the cell membranes and the vibrant blue of the nuclei.

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CDMO Market Dynamics Data



## Industry Sub-Sector

10 | By Job Number – MTD / YTD (Normalised)

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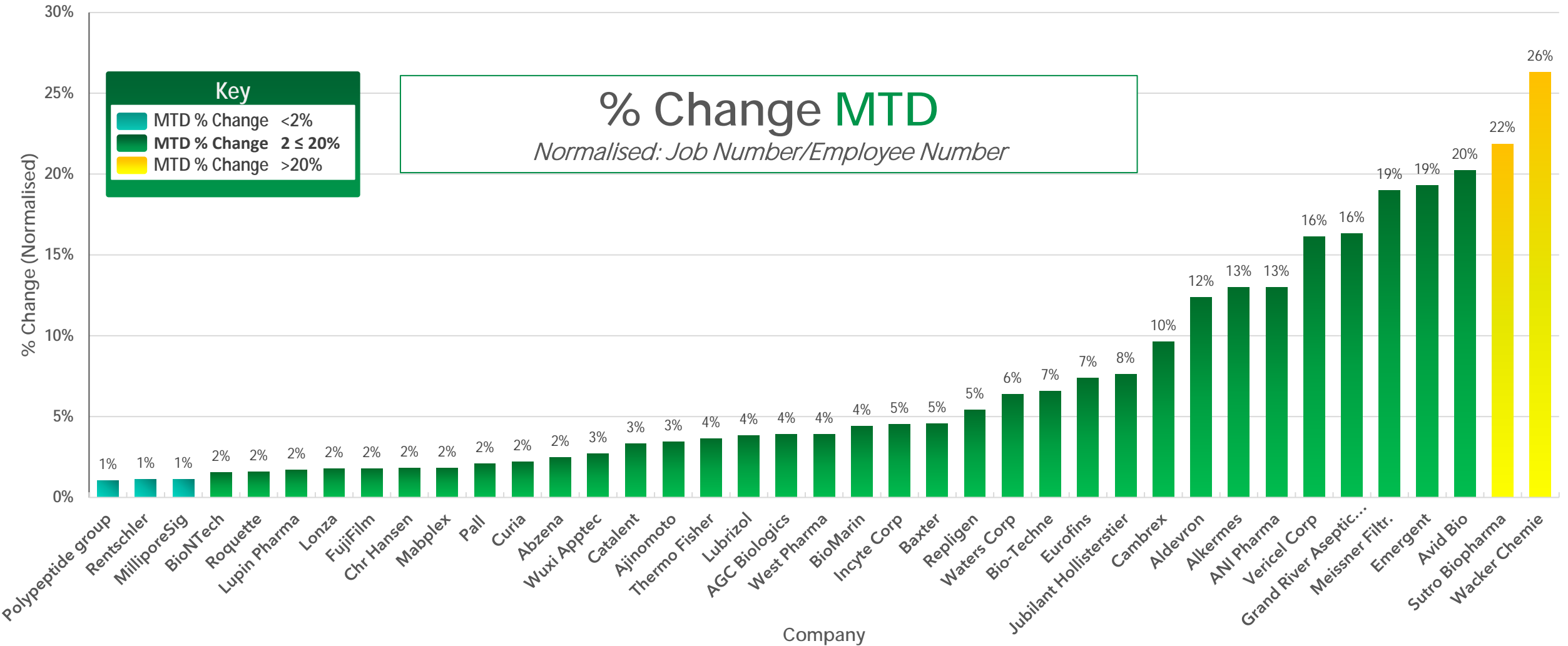
A microscopic view of several cells, likely oocytes or early embryos, with prominent blue-stained nuclei. The cells are surrounded by a clear, gelatinous cytoplasm and are set against a dark, blurred background. A semi-transparent dark grey horizontal band runs across the middle of the image, serving as a background for the text.

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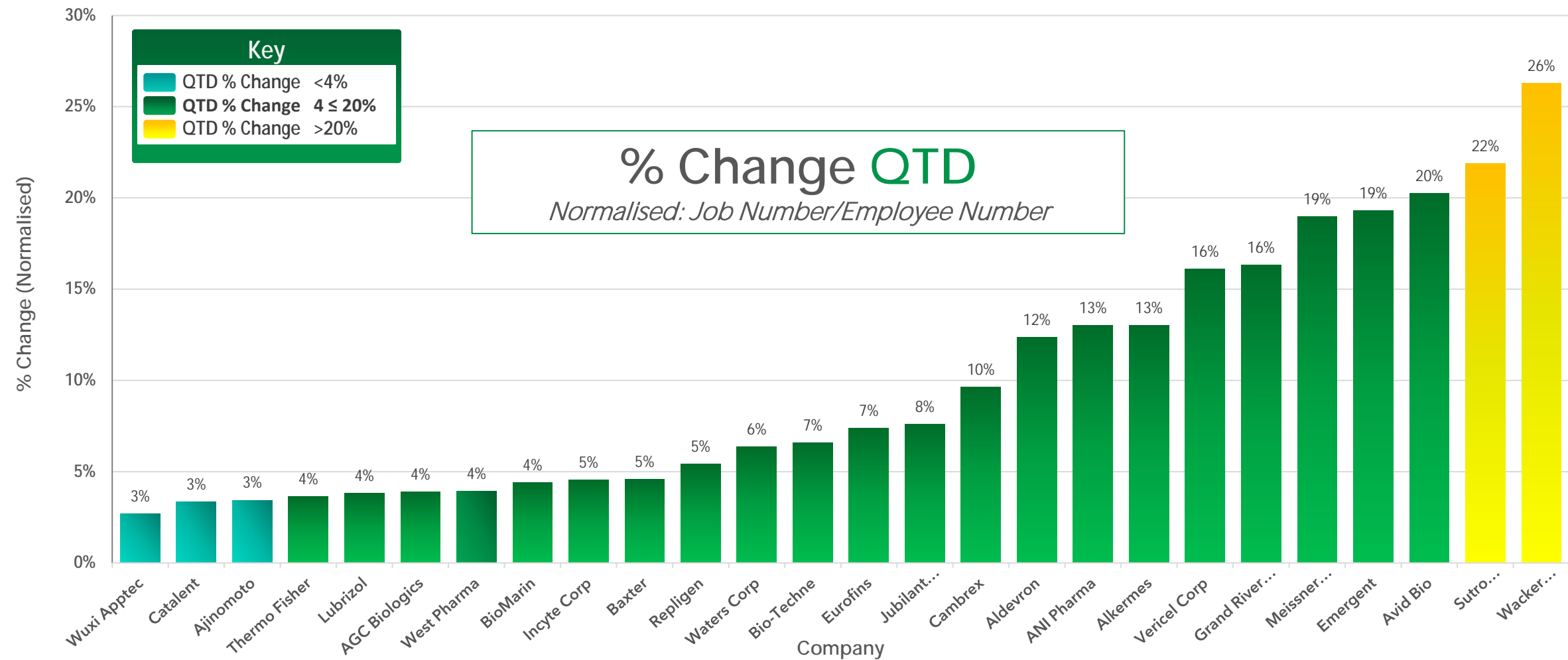
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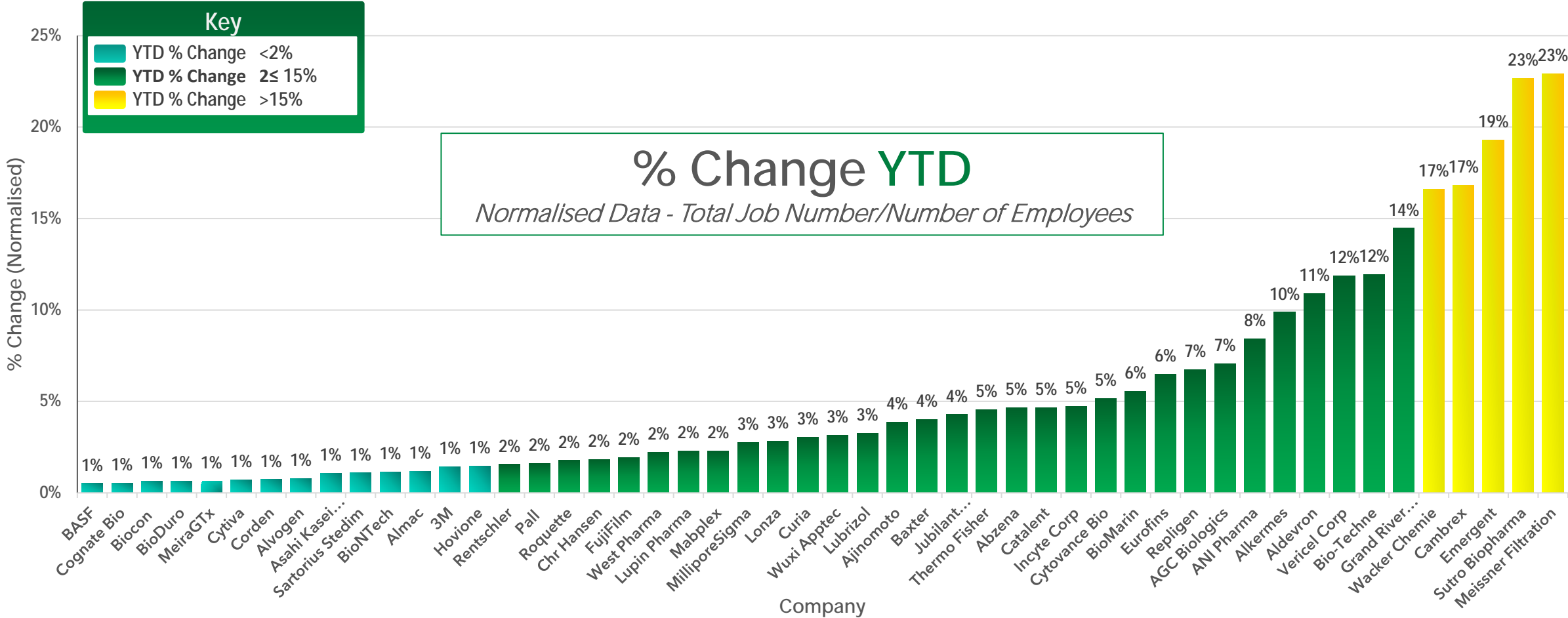
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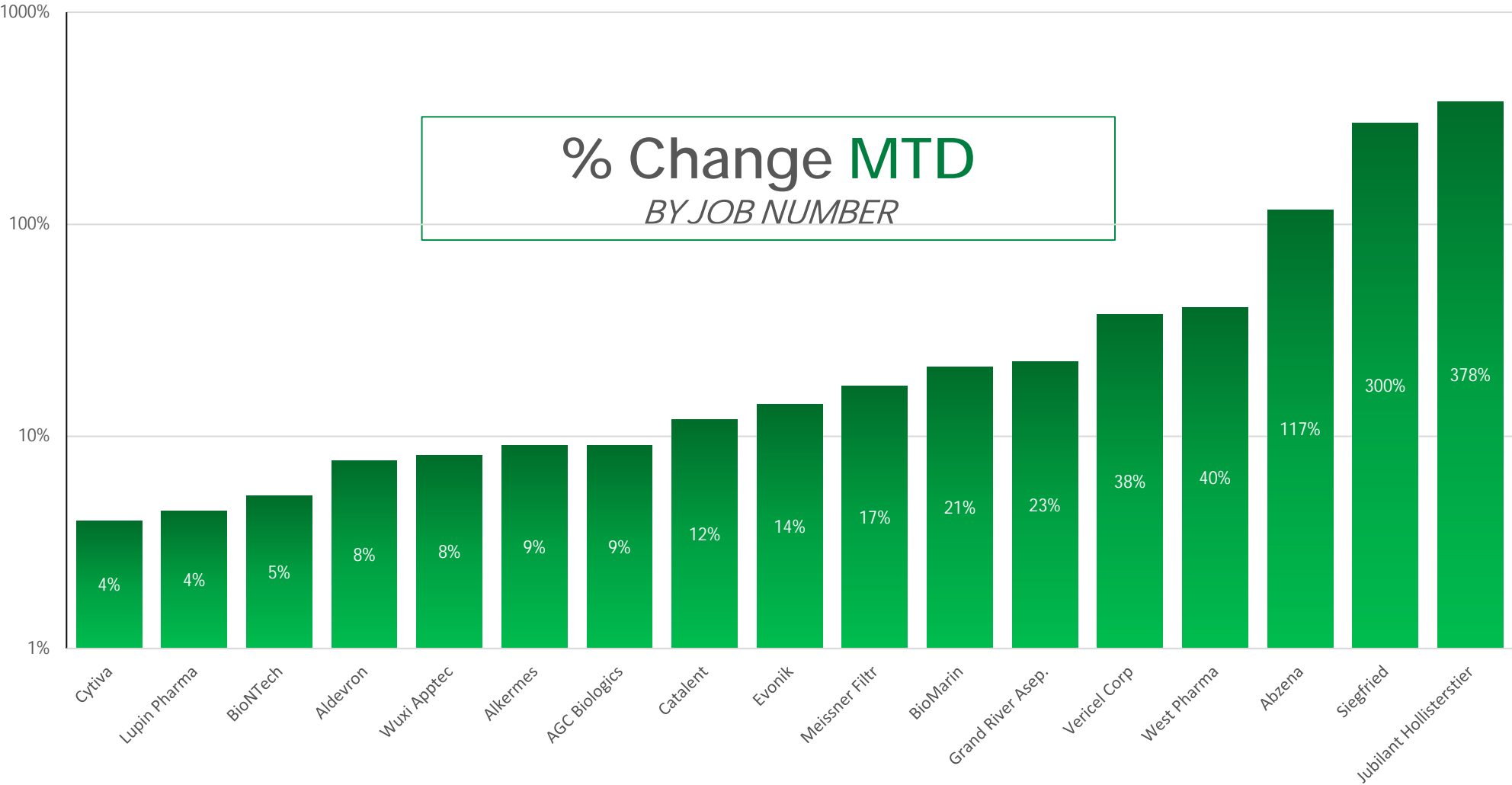
Assessment of Hiring Frequency by Job Number (Normalised)









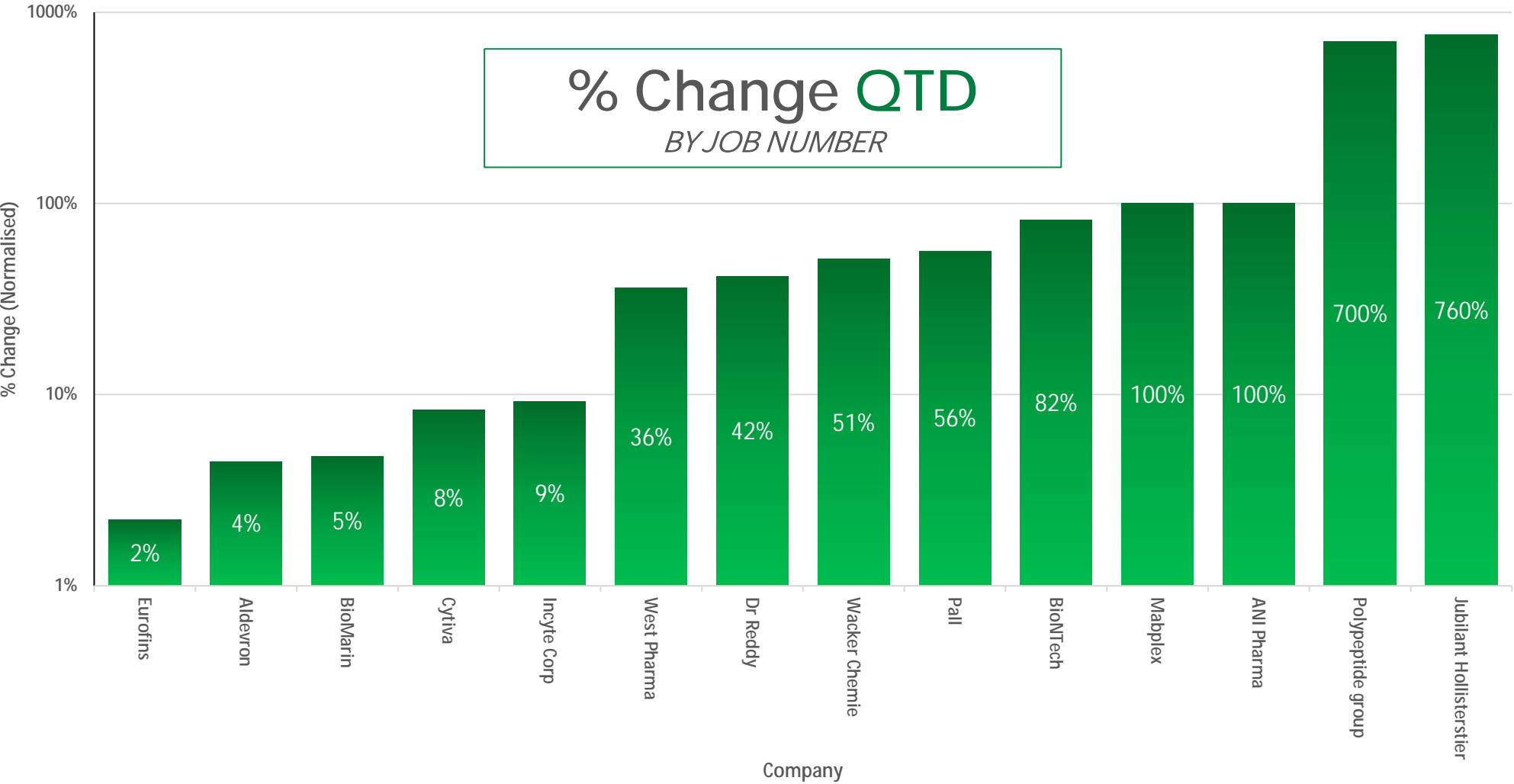


Abzena  
Siegfried  
Jubilant Hollisterstier



IDT Biologika  
Roquette  
Vetter Pharma

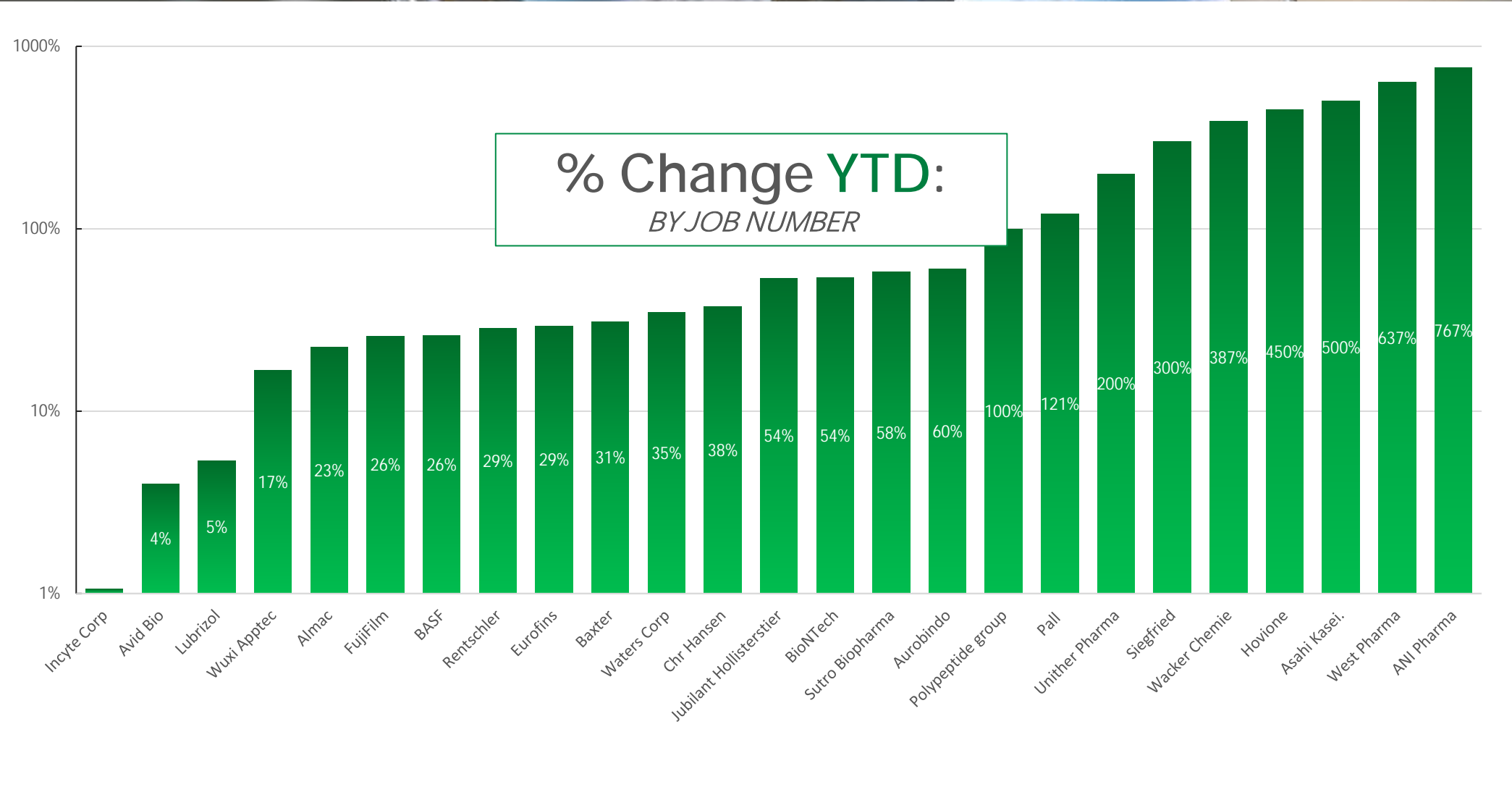




ANI Pharma  
Polypeptide group  
Jubilant Hollisterstier



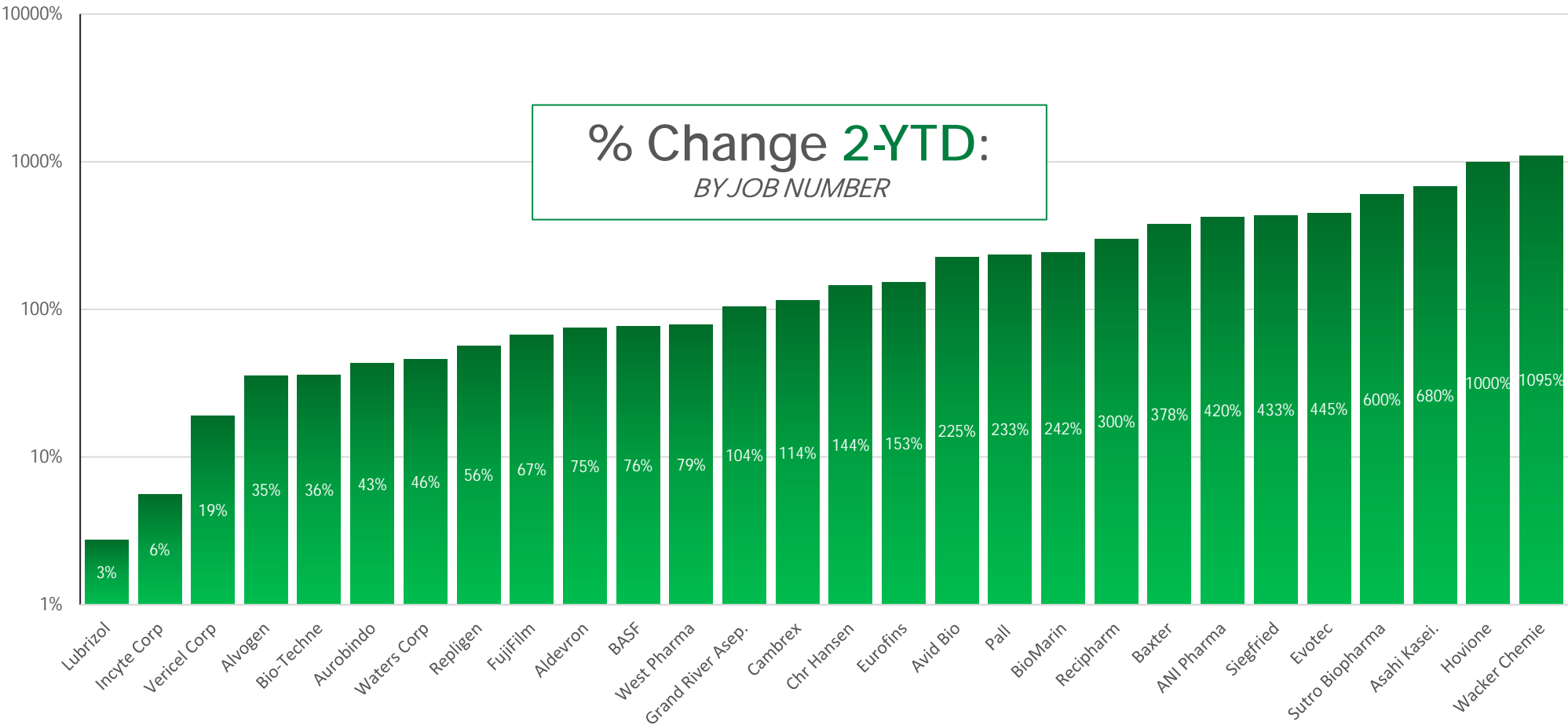
IDT Biologika  
Roquette  
BioDuro



Asahi Kasei  
West Pharma  
ANI Pharma



IDT Biologika  
Roquette  
BioDuro



Asahi Kasei.  
Hovione  
Wacker Chemie



IDT Biologika  
Roquette  
Vetter Pharma



A microscopic view of several cells, likely from a developing organism, showing large, clear cytoplasm and prominent, bright blue nuclei. The cells are arranged in a cluster, with some showing signs of division or budding. The background is dark and out of focus.

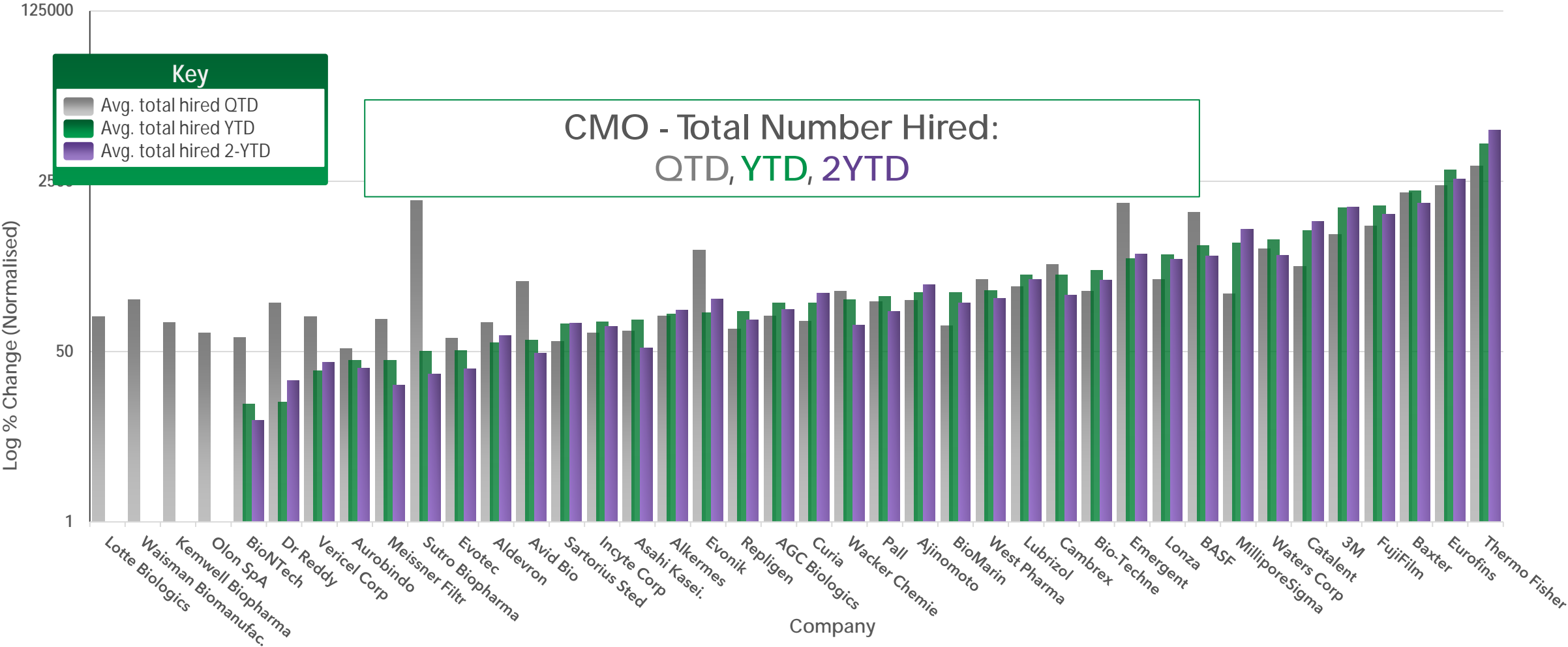
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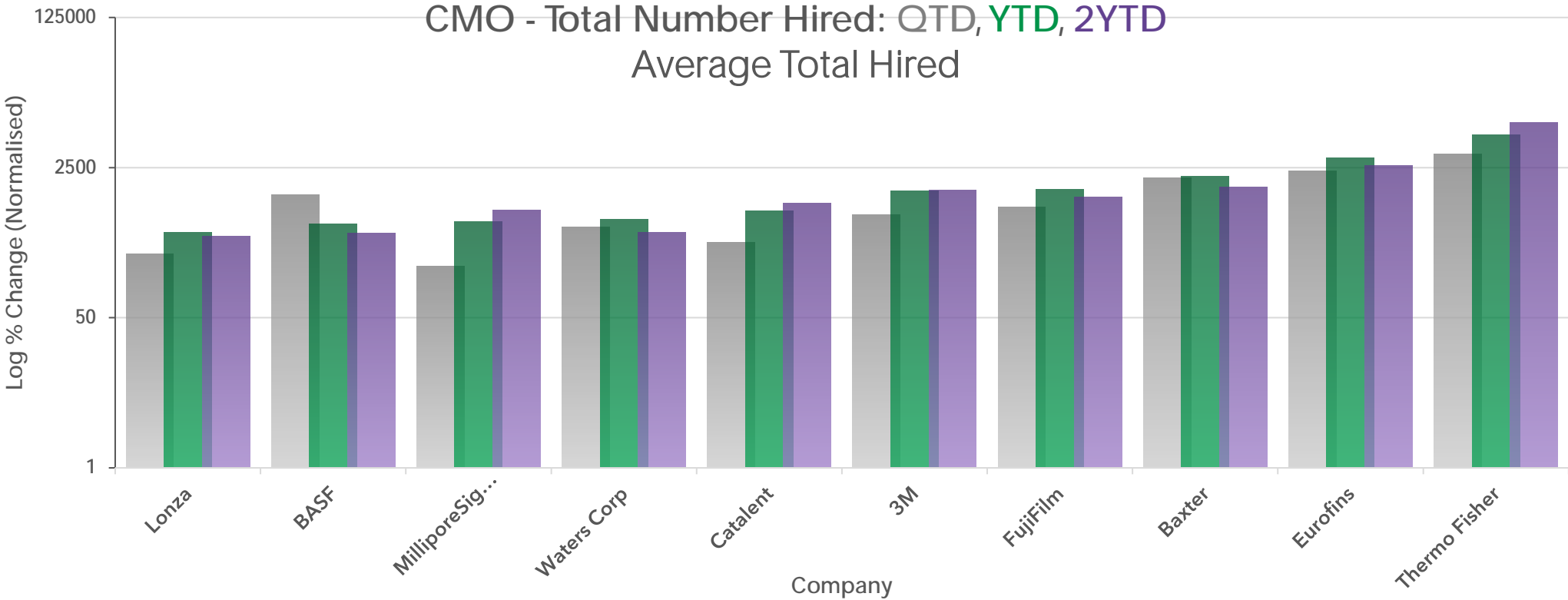
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Assessment of Hiring Frequency by Job Number (Average)

QTD, YTD, 2-YTD  
CDMO  
AVG. TOTAL NUMBER HIRED





Key

- Avg. total hired QTD
- Avg. total hired YTD
- Avg. total hired 2-YTD

Thermo Fisher Scientific, Eurofins and Baxter

Largest increase across QTD, YTD, 2YTD.



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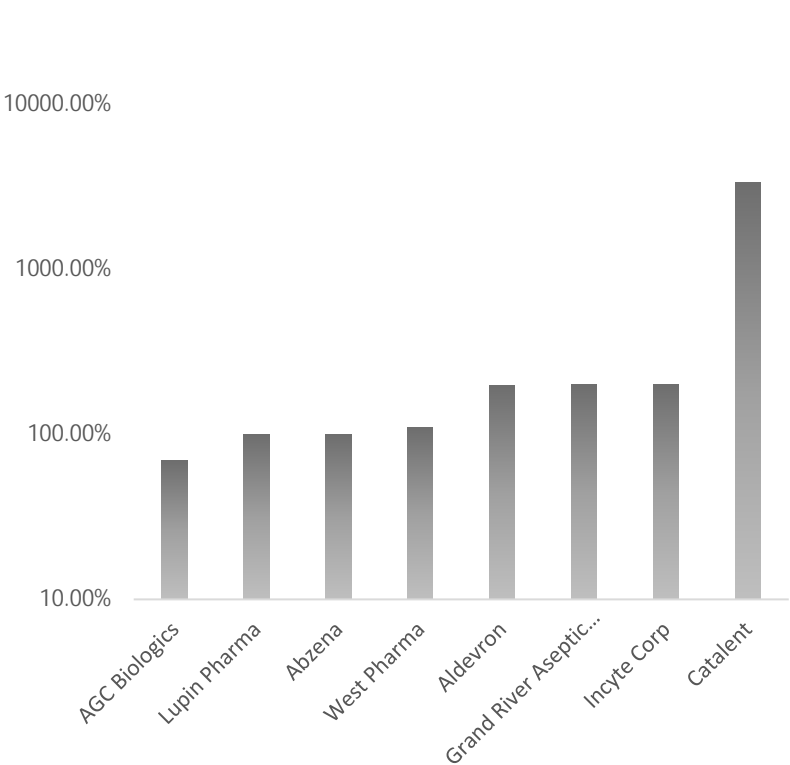
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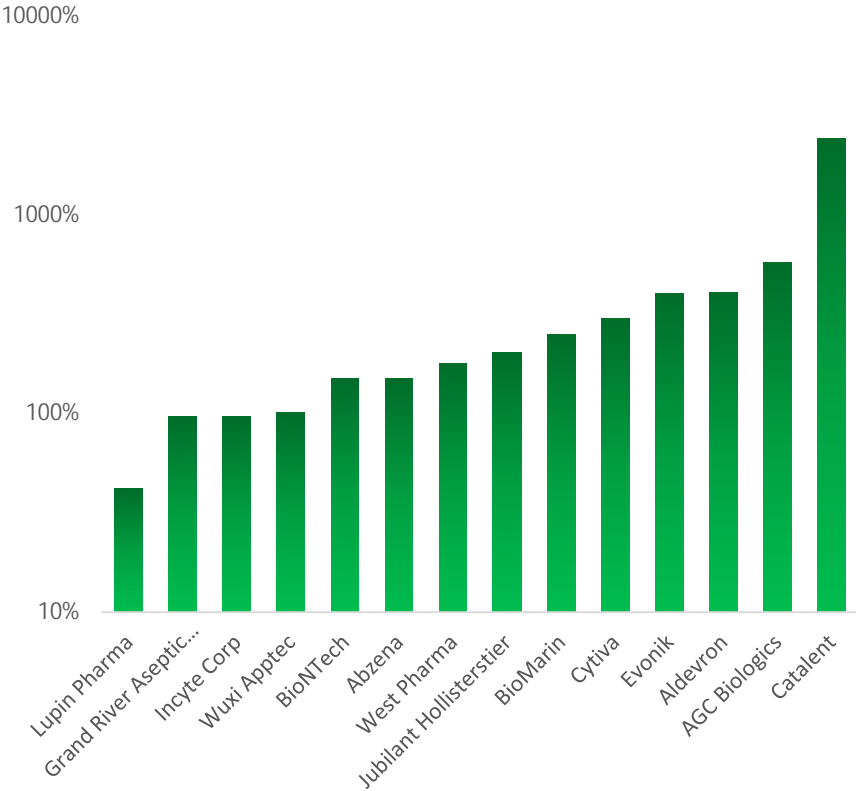
CDMO

Assessment of Hiring Frequency by Job Type

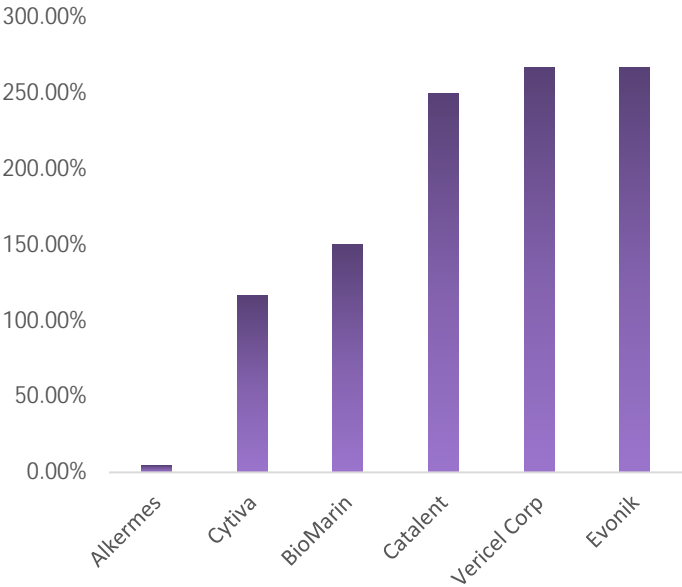
R&D



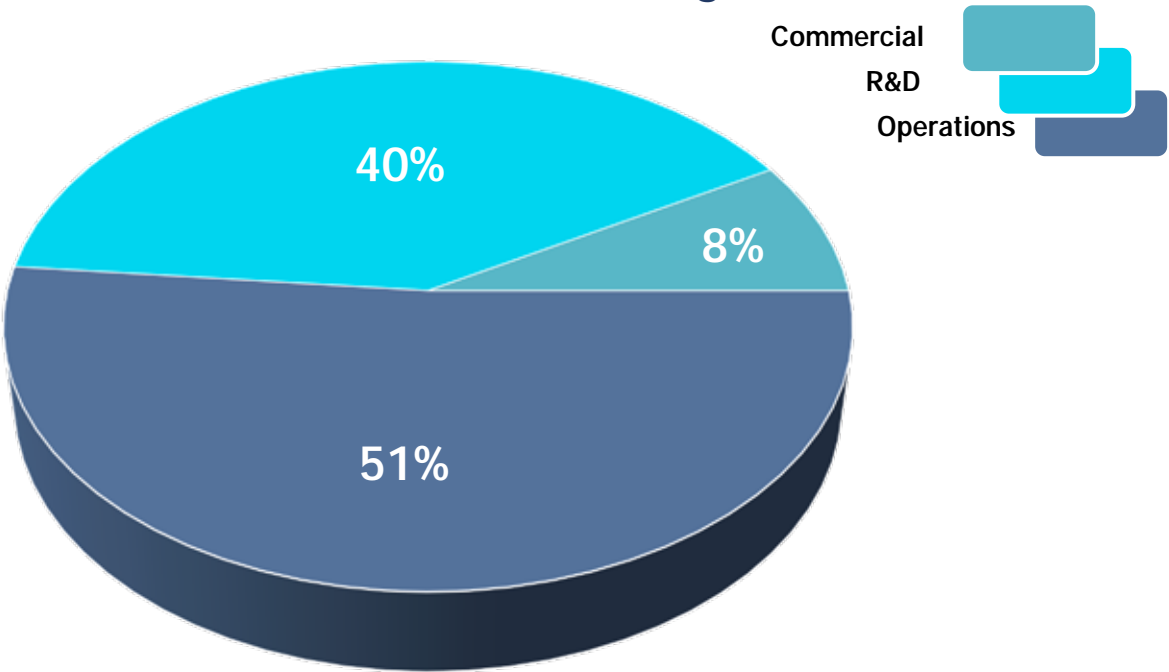
Operations



Commercial



Breakdown of Roles Postings



YTD  
(Increasing)

Commercial:

Catalent  
Vericel Corp

Operations:

Alkermes  
West Pharma

R&D:-

Catalent  
West Pharma

MTD  
(Increasing)

Commercial:

Vericel Corp  
Evonik

Operations:

AGC Biologics  
Catalent

R&D:-

Incyte Corp  
Catalent

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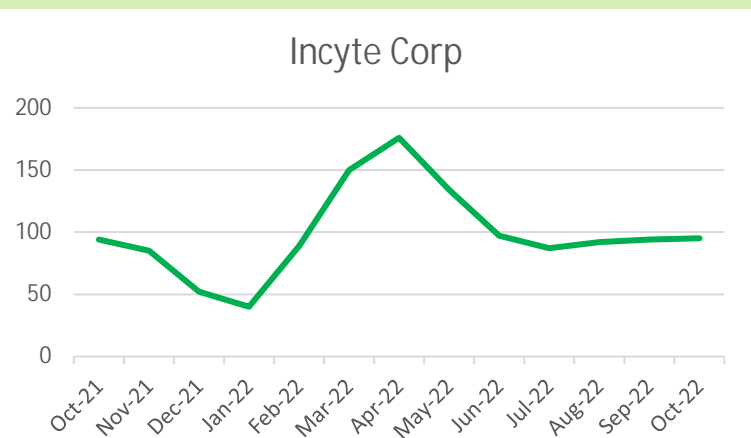
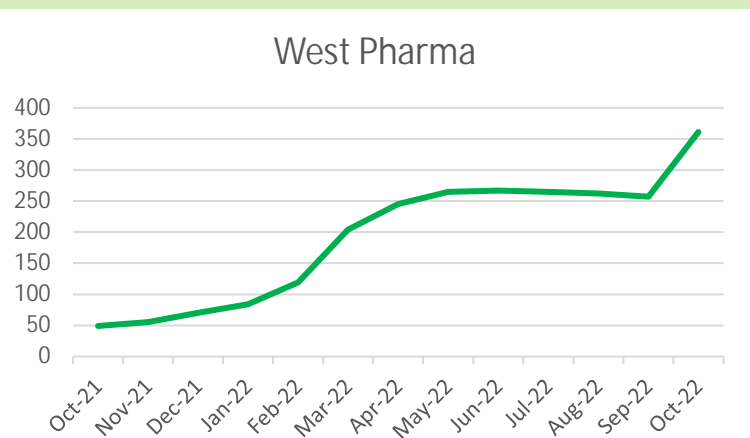
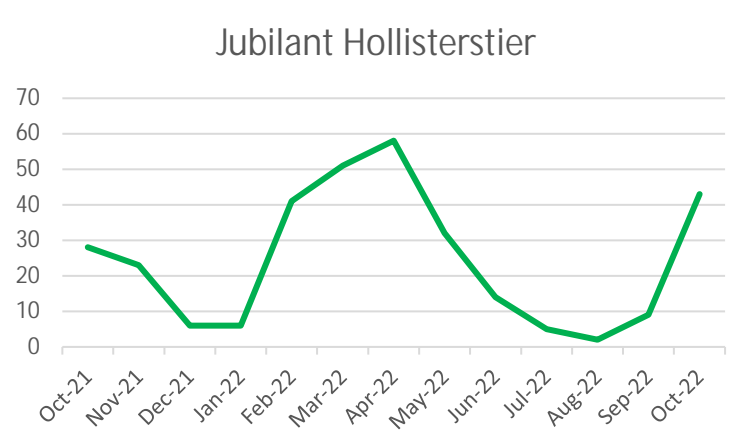
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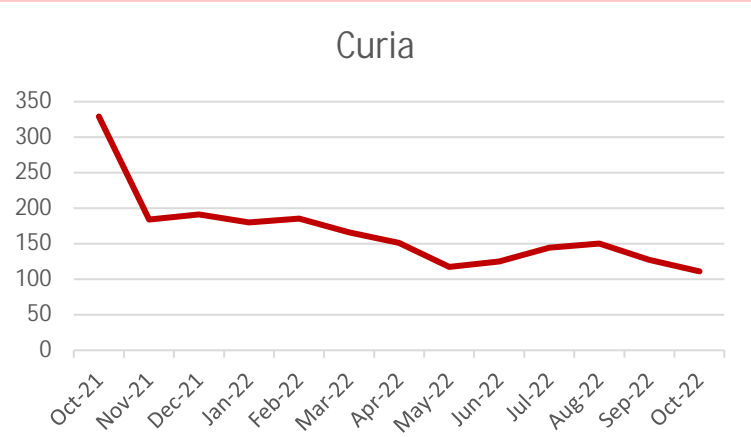
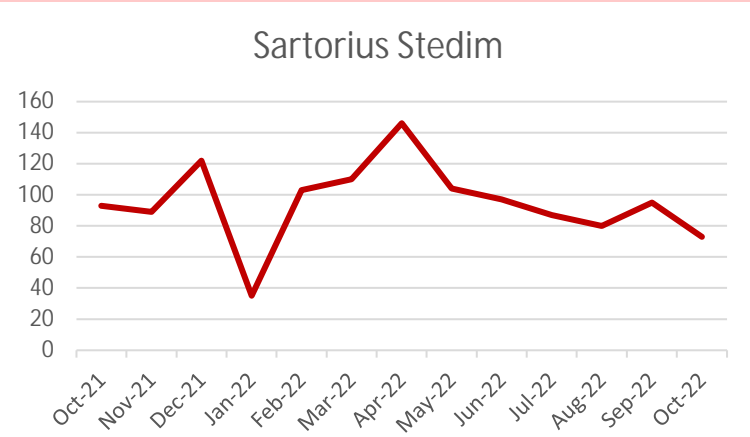
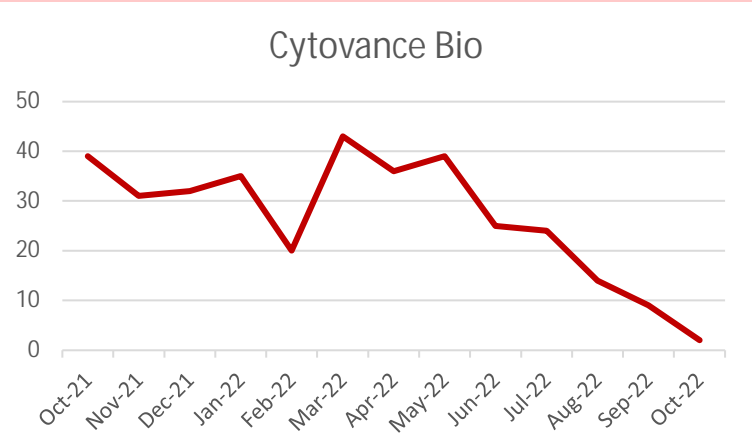
Data Summary – Monthly Hiring Industry Insight



INCREASING



DECREASING



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Market Drivers



- In 2022, Sutro Biopharma entered a worldwide, strategic collaboration and licensing agreement with Astellas focused on the discovery and development of novel immunostimulatory antibody-drug conjugates (iADCs).
- Sutro initiated a collaboration and licensing agreement with BioNova Pharmaceuticals Limited (BioNova) to develop and commercialize STRO-001, a CD74-targeting Antibody-Drug Conjugate (ADC)
- Sutro initiated a collaboration and licensing agreement with Tasly Biopharmaceuticals Co., Ltd



- Wacker \$200 million expansion to add another 200 jobs in Charleston, Tennessee



- Avid Bioservices Announces Launch of Analytical and Process Development Suites Within New, World-Class Viral Vector Development and Manufacturing Facility
- Avid Bioservices Announces Expansion into Viral Vector Development and Manufacturing Services for Cell and Gene Therapy
- Avid Bioservices, Inc. is expanding its CDMO service offering into the cell and gene therapy market: constructing a purpose-built 53,000 sq. ft. viral vector development and CGMP manufacturing facility in Costa Mesa, CA.

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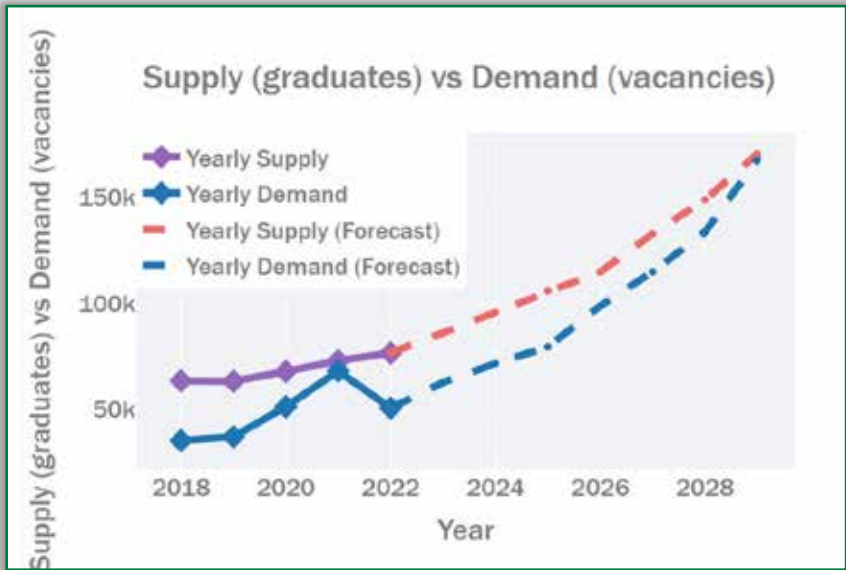
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Predictive Talent Market Dynamics



# Predictive Talent Market Dynamics

Various models presented below exemplify the ‘Supply versus Demand’ market growth assumptions:



USA Biomanufacturing Supply versus Demand modelling. Various market growth options. Talent Supply presented at 10% growth (median over 12 years); Talent Demand growth projected at 10% (left) and 20% (right) respectively. Intersecting lines illustrate where talent demand and supply are in equilibrium (Evolution, 2022). Supply refers to number of graduates and post-graduates entering Biomanufacturing industry; demand specific to Biomanufacturing job vacancies.

