Optimizing Pharmaceutical Laboratory Efficiency and Productivity

Within the pharmaceutical industry, an immense pressure exists to progress potential therapeutic candidates through the pipeline quicker than ever before. With pharmaceutical laboratories being on the front-line of drug development, the pressure for lab leaders to optimize the speed and efficiency of their operation is one crucial element of this bigger picture.

When medicines have the potential to address critical unmet medical needs, the pharmaceutical laboratory’s need for speed becomes vitally important. When medicines have the potential to address critical unmet medical needs, the pharmaceutical laboratory’s need for speed becomes vitally important.

Drug discovery, development and delivery: a timeline

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Promoting efficiency to improve lab productivity and economics

What drives productivity pressures in pharmaceutical laboratories?

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Agilent Technologies partnered with market research company Frost & Sullivan in 2019 to research and develop a blinded survey to better understand the challenges, pain points and strategies that can help pharmaceutical laboratories achieve quicker results.

The Pharma Laboratory Leaders Survey

The Pharma Laboratory Leaders Survey tells us that:

- **65%** of Lab Leaders would welcome new innovations to increase laboratory efficiency.
- **83%** of Lab Leaders say their current workflow requires optimization.
- **70%** of Lab Leaders say one of the most common strategies they are employing to progress medicines through the pipeline quicker is improving documentation of the sample chain of custody.
- **Nearly 1 billion USD** in savings could be achieved by implementing ready-to-use pathways.
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### Key facts

- **Cost:**
  - 1 out of 10,000 medicines studied will end up on the market.
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- **Failure rate:**
  - 3 billion USD
  - 7000+ medicines studied, only 10 medicines approved

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