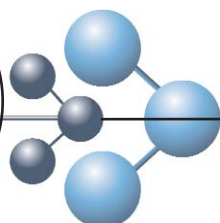




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Lead Optimization Strategies

Future developments, threats and opportunities for big pharma, specialty pharma and biotech companies





Lead Optimization Strategies

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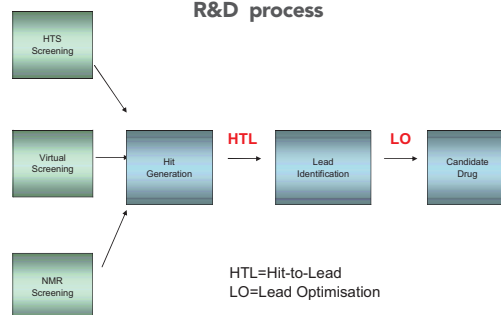
Report overview

Lead optimization could create a time saving of 18% during the drug discovery process, representing significant cuts in R&D expenditure. The key to successful lead optimization lies in adhering to stringent selection criteria during hit generation whilst embracing new technologies that can lead to improvements in screening. Lead Optimization Strategies: Future developments, threats and opportunities for big pharma, specialty pharma and biotech companies, is a new report which identifies the latest lead optimization strategies being employed by these companies to identify and develop new drugs. **This report details important service providers for lead optimization outsourcing used by the pharmaceutical industry, in order to address the rising costs of drug development and improve drug attrition rates. Evaluate the strategies you can use to give your compounds the best chance of reaching and succeeding in clinical trials with the help of this report.**

Key features

- Value and breakdown of drug discovery process and where lead optimization can impact cost savings
- Analysis of lead optimization strategies in big pharmaceutical, specialty pharmaceutical and biotech companies
- Defined criteria of which chemistry departments apply to the development of lead compounds and how stringent selection criteria is essential for efficient lead generation and lead optimization
- Assessment of the key threats and opportunities within the lead optimization process

Figure 1.1: How lead optimization impacts the R&D process



Source: Lead Optimization Strategies

Key findings

- Technological advances in the development of nanotechnology, miniaturization and systems biology are driving improvements in the refinement of the lead optimization process and cost-effectiveness of drug development.
- There are more than 25 companies that provide high quality services to the pharma industry helping to improve the lead optimization process. The increasing availability of cheap, offshore lead optimization services will benefit pharma companies, enabling more new targets to be investigated without significantly increasing R&D budgets.
- The formation of strategic alliances will continue to aid drug and technology development as smaller companies license out drugs to bring in revenue. Equally, in-licensing will enable larger companies to sustain and improve profitability but there will be an increasingly high price attached to these projects.



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