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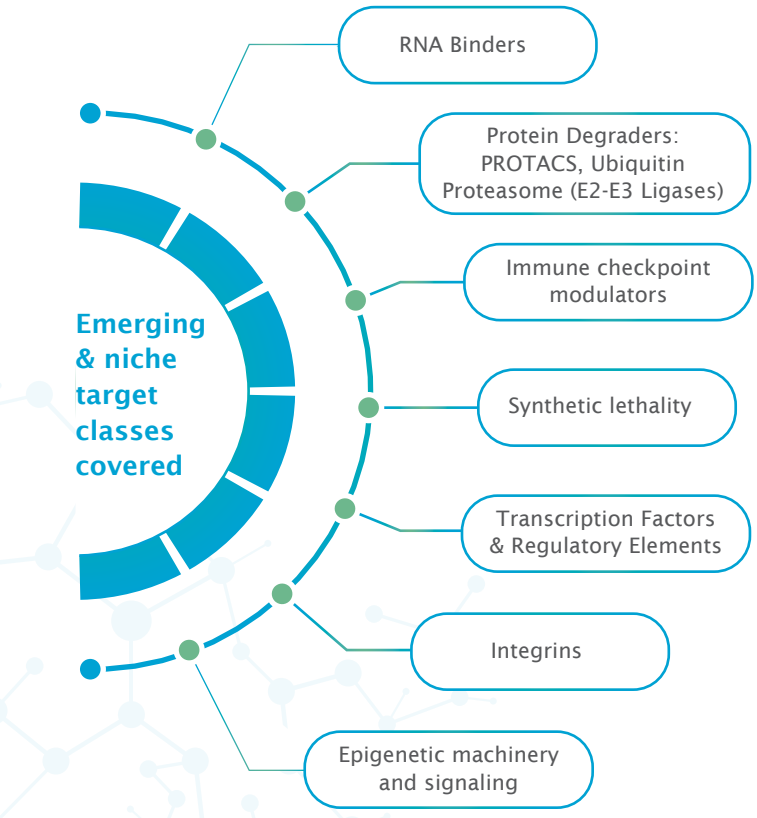
Custom Chemistry Annotations for Niche Target Classes in Drug Design & Discovery

With the ever-increasing evolution of the drug target space, the Pharma and Biotech industry is shifting focus towards new target classes, exploring the undruggable genome and mechanisms to intercept disease pathophysiology. Having said that, well-known target classes like GPCRs, Kinases, Ion Channels, Hydrolases, Proteases etc. are not losing relevance, as drug hunters continue to find new applications in disease indications, as well as novel ways to drug the targets. However, all this crucial intelligence lies dispersed in unstructured formats across a wide array of publicly available literature and data sources.

Excelra's custom chemistry data curation services

Our custom curation capabilities on niche targets frees up the bandwidth of medicinal chemists and computational scientists, by providing them with comprehensive annotations on the target information, chemical structures with associated activity values, innovator details and much more.

We possess the expertise and experience in extracting, structuring, processing and transforming unstructured data into high quality, analysis grade formats that enable informed data-driven decisions in drug discovery.



Databases built for bespoke client requirements

Excelra provides structured and high-quality databases that can be utilized for exploring the vast chemical and SAR space.

We also offer tailored analysis-ready datasets that can be used for developing AI-ML predictive models in drug discovery.

Furthermore, we deliver competitive intelligence reports focused to supporting the customer's internal portfolio expansion strategies.

Data delivery in flexible-file formats

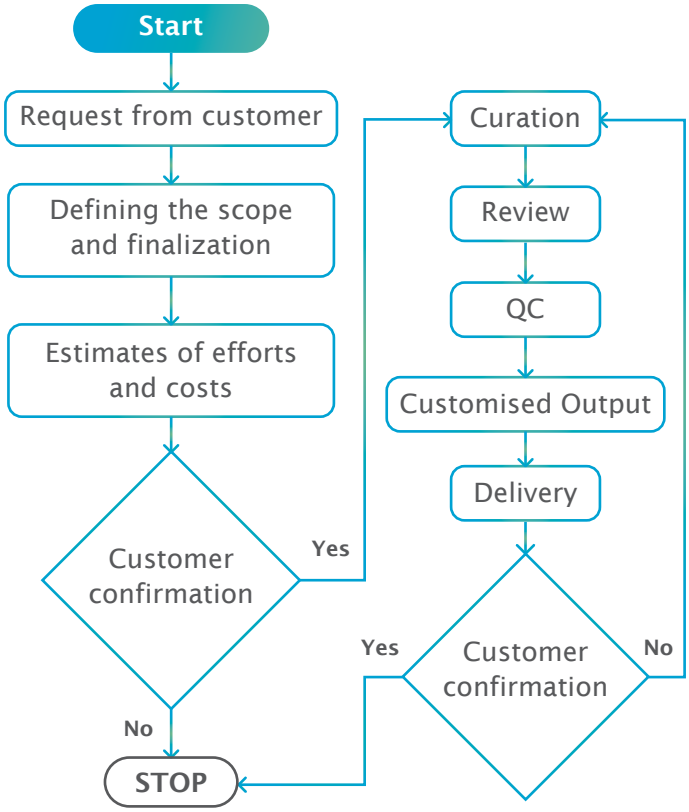
With a good understanding on the data requirements of our global Pharma and Biotech customers, we create datasets with industry-accepted ontologies that can be seamlessly integrated with client-end platforms, analytical tools, protocols or methodologies.

We can provide 'Smaller datasets' in relation to the niche targets from journal articles, patents and other documents (letters & reviews, company pipelines, conference proceedings) in the following formats:

'Larger datasets', can be delivered in relational database formats such as:

ORACLE PostgreSQL MySQL

Collaborative work-flow methodology



The Excelra advantage

- With extensive domain experience and expertise, Excelra has been the preferred partner for 10 of the top 20 Pharma companies in offering custom data curation services from various sources, especially journals and patents.
- Our strength lies in the utility of a techno-manual curation methodology with a 3 level QC process, performed by experienced PhD & MS level scientists with background in medicinal chemistry, drug discovery and chemistry.
- We ensure a swift project turnaround time of 2-3 business days for majority of literature published in journal articles or patents.

Our allied custom chemistry curation solutions

- Landscape analysis around target and compound class
- ADMET data-set generation
- Markush enumeration and R-group analysis

Our Clients

Pharmaceuticals

Biotech

Research and Academia

AI/ML Driven Drug Discovery Companies

Contract Research Organizations

For any business queries, or to schedule a meeting with our scientific team, write to us on: marketing@excelra.com

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About Excelra

Excelra's data and analytics solutions empower innovation in life sciences across the value chain from discovery to market. The Excelra Edge comes from a seamless amalgamation of proprietary curated data assets, deep domain expertise and data science. The company's multifaceted teams harmonize and analyze large volumes of disparate unstructured data using cutting-edge technologies. We galvanize data-driven decisions to unlock operational efficiencies to accelerate drug discovery and development. Over the past 18 years, Excelra has been the preferred data and analytics partner to over 90 global clients including 15 of the top 20 large Pharma companies.

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