



e(datascientist)

The platform behind the
brains solving the world's life
sciences grand challenges.

[data science life]

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From data sets to data assets

Eagle Genomics innovates at the intersection of biology, data science and bioinformatics to develop technical solutions and enterprise information architecture for the microbiomics and genomics era.

Our knowledge discovery platform, the **e(datascientist)**, uses machine learning to transform data into actionable insights that drive scientific decision making. The platform enables companies to make more credible scientific claims, enhance R&D processes and drive innovation.

Revealing novel connections within the world's life sciences data, the platform provides insights which are enabling game-changing digital discoveries across multiple industries including, food, personal care, agritech and human health.

Microbiome Focus

Microbiome data far exceeds genomic data in complexity and scale, presenting an unprecedented challenge for researchers, innovators and businesses.

The **e(datascientist)** addresses the large-scale challenges associated with microbiome data management and knowledge discovery, to enable scientists in enterprise organisations to generate credible hypotheses around host-microbiome interactions and understand the systemic impact of multi-omics data in relation to the microbiome.

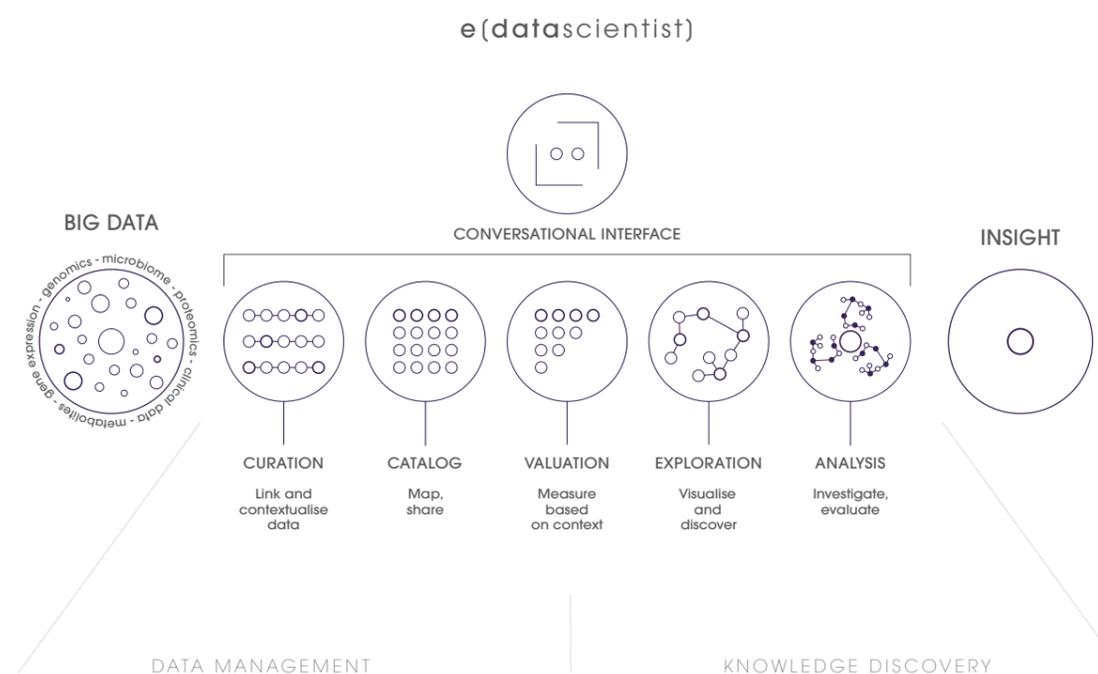
Using the **e(datascientist)**, companies can generate novel microbiome insights to enable development of new and enhanced products which address key health and environmental challenges.

Industry challenges

- Companies are currently unable to turn ever-growing quantities of data into actionable insights that could transform product decision-making
- Vast microbiome and genomic datasets are often stored in silos with no consistency or context
- Knowledge is not shared between teams, resulting in studies being repeated, often at cost to companies
- Reliance on the tacit knowledge of individual scientists

Business benefits

- Develop claims for more innovative, differentiated and sustainable products
- Increase productivity and reduce product time to market
- Enable effective collaboration to realise full potential of data assets
- Integrate multidimensional open source and internal datasets to identify the most compelling research areas to focus investment
- Reuse data to enable cross-study analysis and reduce costs



<p>Curation</p> <p>The platform's Curation capability uses entity recognition and the linking of ontological terms to generate structured and annotated data which enables a quicker and more targeted search. The Curation functionality prepares data to enable a streamlined journey to insight.</p> <p>Catalog</p> <p>The Catalog's graph-based database presents the unified and federated data, enabling organisation-wide access to consistent, standardised data. Large-scale multi-omics datasets can be intelligently managed and shared from a secure cloud-based location.</p>	<p>Exploration</p> <p>The Exploration interface enables collaborative graph exploration of data without the need for data science expertise. Driven by a conversational UI, the module makes connections between proprietary and public datasets to reveal novel entities of interest and derive new insight.</p> <p>Analysis</p> <p>The platform's Analysis capability offers enterprise-ready parallel statistical pipelines on the cloud to intelligently inform the direction of research. The world's leading workflow technology and analysis tools are accessible through an integrated platform experience.</p>
<p>Valuation</p> <p>The Valuation engine objectively and statistically measures the value of data assets as defined by their usefulness and relevance. Applying AI to infer context from metadata, the valuation engine is able to enhance hypothesis generation and prioritize entity relationships at speed and scale.</p>	



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