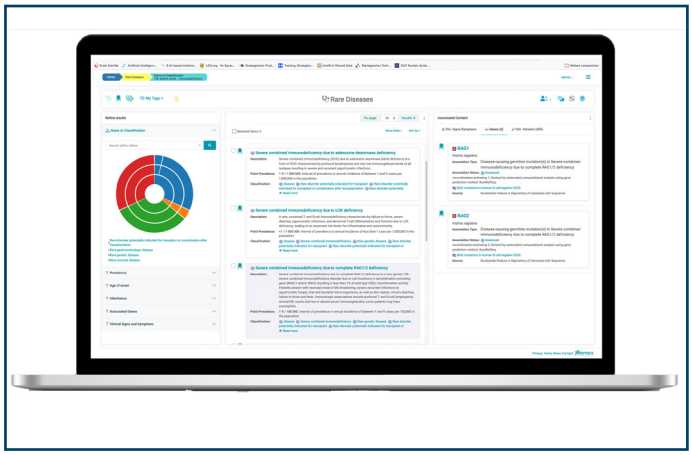
Application Note

AILANI™ for Rare Diseases

AI-powered Integration and Search of Genetic and Clinical Information

Searching proprietary & public resources

In the field of rare diseases the amount of publicly available information is rapidly increasing. For medical specialists, maintaining a comprehensive and up-to-date understanding of the latest research results and publications is a challenge. As information is crucial to provide the right patient care, smart tools are needed to support both clinicians and scientists. AILANI for Rare Diseases is an integration and search engine specifically developed for healthcare professionals that allows for an efficient data retrieval from both public and proprietary sources.



Keyword results and AI answers from multiple resources

AILANI for Rare Diseases

Specialized comprehensive searches

Research often involves the manual exploration and continuous monitoring of multiple independent data sources which can be both inefficient and time consuming. Further on, it is common for the same condition (e.g. Charcot-Marie-Tooth disease) to be described using different terms (peroneal muscular atrophy or hereditary sensorimotory neuropathy) which makes the retrival of relevant data even more difficult.

AILANI for Rare Diseases integrates multiple information sources that can be easily extended and interlinked with proprietary data. This enables a holistic approach to rare diseases by leaving no piece of evidence out of context. The underlying ontology allows for synonym recognition which enhances the search experience. Using the alerting mechanism users can keep up to date with upcoming articles and editions in their field.

Intelligent answers for better diagnostics

AILANI for Rare Diseases focuses on gene-disease and gene-phenotype associations as well as topics relevant for therapeutic decisions and causal candidate validation.

Medical specialists access global biomedical knowledge as context for gaining a better understanding of the mechanism behind disease and source for diagnosis support.

Modern and easy-to-use interface

AILANI provides answers to natural language medical questions while hiding the complex logic from the user. The software understands and aggregates the information from questions like:

> What genes are involved in T-B+ severe combined immune deficiency?

> What mutations in cftr predominantly cause cystic fibrosis?

> How to treat Crohn's Disease?

> Which biomarkers are associated with inflammatory bowel disease?

Besides literature, background information and keyword results AILANI delivers AI-answers with direct link to related information of interest like drugs, adverse events, clinical trials, symptoms, genes and proteins.

Why choose AILANI for Rare Diseases?

The integration and interconnection of both public and proprietary data along with the AI-based semantic search facilitate the access and retrieval of clinical knowledge to provide efficient and effective patient-centered care.

The easy-to-use web interface provides both a list of data sources that contain the specified keywords and direct answers to natural language questions.

All information is stored in one place, accessible at any time.

With AILANI for Rare Diseases new insights can be developed for better diagnostics and treatment.

AILANI for semantic integration and search

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