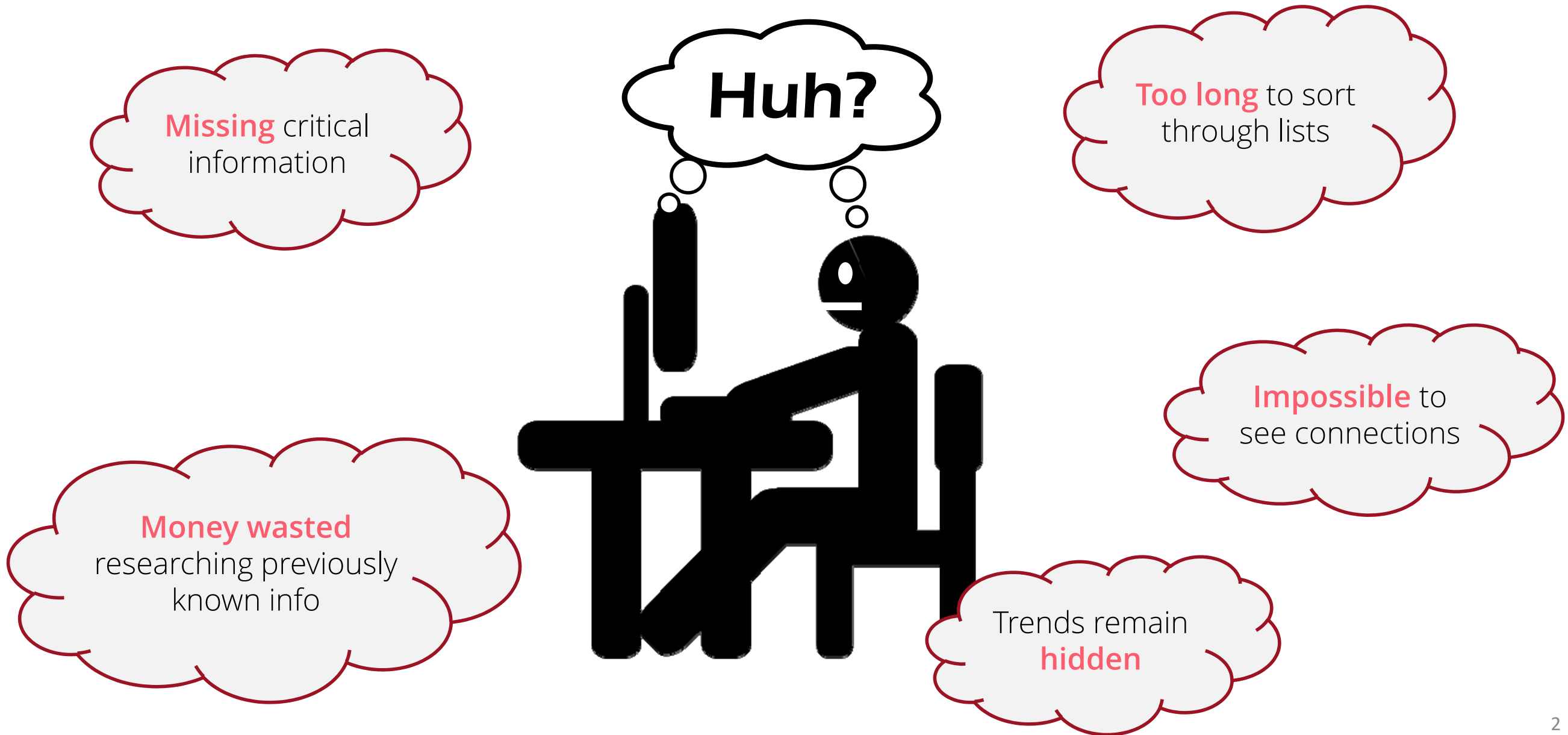


Introduction to

Q*insight*TM

Discover | Analyze | Decide

Problems with Traditional Methods



Quertle's Biomedical Artificial Intelligence (BioAI™)

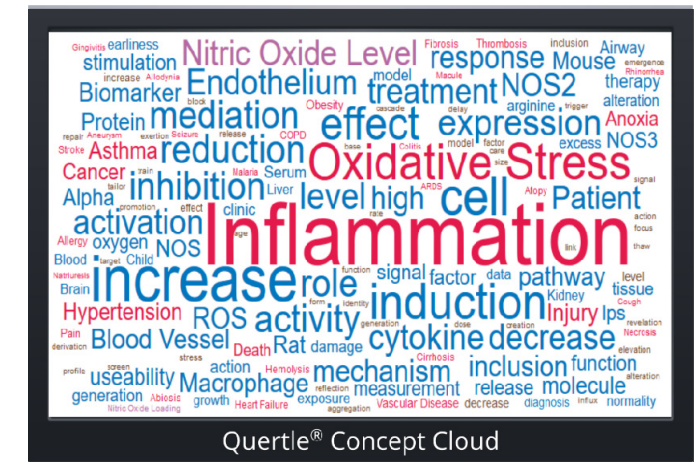
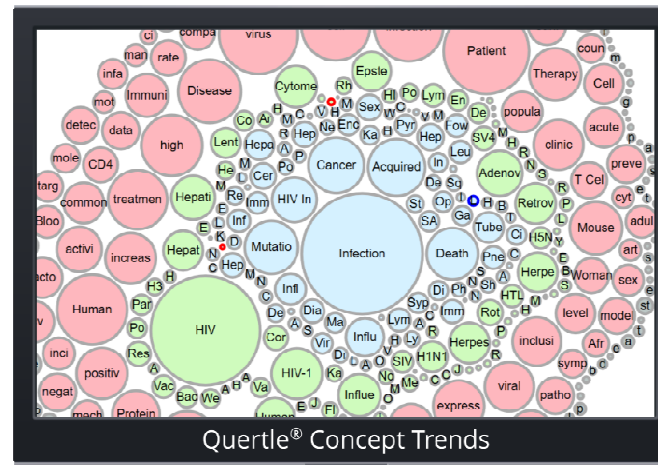
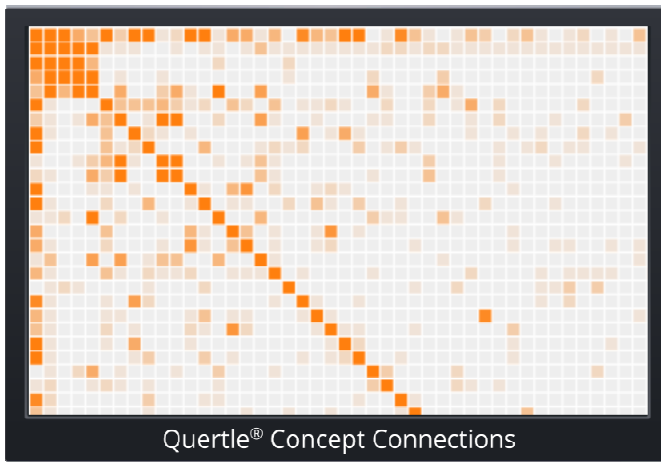
Neural Networks

Factor Analysis

Pattern Matching

Machine Learning

Natural Language



A New Dawn: *Qinsight*TM

Comprehensive
& precise
results

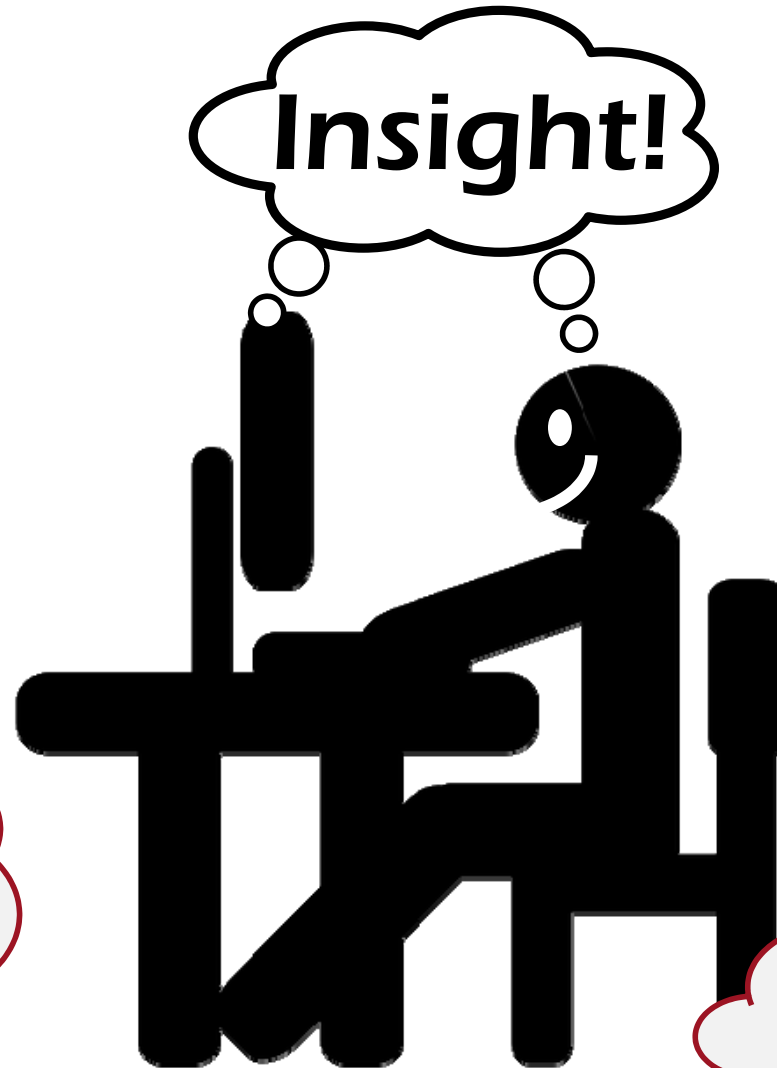
Insight!

Rapid
understanding

Hidden
connections
unveiled

More productive
research programs

Trends
Discovered



“NO” is automatically recognized as being “nitric oxide”

20% of the literature about this medically important signaling molecule uses only “NO”, so searches for “nitric oxide” on sites like PubMed miss potentially critical documents

Applied

None

Filters

Published Within

Last 30 days

Last year

Last 3 years

Last 5 years

Custom Range

Publication Type

Review

- 1 ☐ **Clinical application of exhaled nitric oxide measurement in pediatric lung diseases.**  My Library 
-  **Manna A** (Department of Pediatrics Federico II University Naples Italy.)
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Ital J Pediatr (2012) [Show Abstract »](#)
- Moreover, **FeNO** levels seem to be increased in subjects with **asbestosis**, but not in **pulmonary sarcoidosis**.
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- 2 ☐ **The value of FeNO measurement in childhood asthma: uncertainties and perspectives.**  My Library 
-  **Ferrante G** (Institute of Biomedicine and Molecular Immunology National Research Council Palermo Italy. stefania.lagrutta@ibim.cnr.it.)
More Authors »
Multidiscip Respir Med (2013) [Show Abstract »](#)

To find a connection between NO and disease, searching for “disease” or its synonyms would not be productive.

“\$Diseases” means search for the concept of disease (i.e., actual disease names) without cluttering the results with non-specific hits that match “disease”, etc.

Applied

None

Filters

Published Within

Last 30 days

Last year

Last 3 years

Last 5 years

Custom Range

Publication Type

Review

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[More Relevant Statements »](#)

2 ☐ [The value of **FeNO** measurement in childhood **asthma**: uncertainties and perspectives.](#) My Library ?

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[More Authors »](#)

[Multidiscip Respir Med](#) (2013) [Show Abstract »](#)

Q NO \$Diseases

SEARCH



Use *Power Term*[®] classes and proper capitalization for best results

Authors/Inventors



Help

Journals



Clear All

Affiliations/Assignees



Open Guide

Show Additional Patent Search Options +

The new technologies ensure that the author says there is a meaningful connection among your search terms (RELEVANCE)

Applied Filters



None

Filters

Published Within

Last 30 days

Last year

Last 3 years

Last 5 years

Custom Range

Publication Type

Review

Export



Selected: 0



Show All Relevant Statements

Turn Highlighting Off

Sort by Date

1 ☐ **Clinical application of exhaled nitric oxide measurement in pediatric lung diseases.** My Library

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More Authors »

Multidiscip Respir Med (2013) Show Abstract »

The image shows a screenshot of the Qinsight search interface. At the top, there is a search bar containing the text "NO \$Diseases" and a blue "SEARCH" button. Below the search bar, a message reads: "Use *Power Term*® classes and proper capitalization for best results". On the left side, there is a sidebar with the Qinsight logo and the tagline "Find what m...". Below the logo, there are sections for "Applied Filters" (showing "None") and "Filters". The "Filters" section includes a "Published Within" filter with options: "Last 30 days", "Last year", "Last 3 years", "Last 5 years", and "Custom Range". There is also a "Publication Type" filter with the option "Review". A large, rounded rectangular text box is overlaid on the center of the image, containing the following text: "Qinsight™ covers ~40 million documents: ~30 thousand biomedical/biological journals Patent grants and applications NIH grant applications TOXLINE AHRQ Treatment Protocols HS Talk Seminars News articles and more with **full-text searching** for >10 million documents". On the right side of the interface, there are links for "Save Search+Filters", "Highlighting Off", "Sort by Date", "My Library", and "My Library". At the bottom, there is a snippet of a search result from "Multidiscip Respir Med (2013)" with a "Show Abstract »" link.

Qinsight™ covers ~40 million documents:

- ~30 thousand biomedical/biological journals
- Patent grants and applications
- NIH grant applications
- TOXLINE
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with **full-text searching** for >10 million documents

The Artificial Intelligence enables distinction between “positive” connections among your search terms and “negative” connections

The Negative Statement filter helps you understand the nature of the connections

- 2  **The value of *FeNO* measurement in childhood asthma: uncertainties and perspectives.**  My Library 
-  **Ferrante G** (Institute of Biomedicine and Molecular Immunology National Research Council Palermo Italy. stefania.lagrutta@ibim.cnr.it.)
More Authors »
Multidiscip Respir Med (2013) [Show Abstract »](#)
- 4  **Correlation of exhaled nitric oxide, nasal nitric oxide and atopic status: A cross-sectional study in bronchial asthma and allergic rhinitis.**  My Library 
-  **Gupta N** (Department of Respiratory Allergy and Applied Immunology National Centre of Respiratory Allergy Asthma and Immunology Vallabhbhai Patel)
More Authors »
Lung India (2014) [Show Abstract »](#)
Atopic profile and nitric oxide levels
[More Relevant Statements »](#)
- 5  **Inhaled nitric oxide therapy and risk of renal dysfunction: a systematic review and meta-analysis of randomized trials**  My Library 

Show Only Negatives

Key Concepts

☒ Update with filters

Concept Cloud

Concept Trends

NO

[Nitric Oxide Biosynthesis](#)

[Nitric Oxide Level](#)

[Nitric Oxide Secretion](#)

[Exhaled Nitric Oxide](#)

[inhaled NO](#)

[Fractional Exhaled Nitr...](#)

[Nitric Oxide Metabolism](#)

More »

\$Diseases

Connections

[Inflammation](#)

[Oxidative Stress](#)

[Injury](#)

[Hypertension](#)

[Anoxia](#)

[Cancer](#)

[Endothelial Cell Dysfu...](#)

More »

Artificial Intelligence is used to determine the Key Concepts that tie your query to the results documents (much more specific than simply what other terms exist anywhere in the results).

In the \$Diseases section is an answer to the question "what diseases are connected to NO".

Gupta N (Department of Respiratory Allergy and Applied Immunology National Centre of Respiratory Allergy Asthma and Immunology Vallabhbhai Patel
More Authors »
[Lung India](#) (2014) [Show Abstract »](#)

Atopic profile and nitric oxide levels

5

6

7

Crit Care (2015) [Show Abstract »](#)

neocortical injury was ameliorated by iNO at 40 ppm, but not at 20 ppm.

[More Relevant Statements »](#)

analysis of
Taiwan.
analysis.
ary ?
hilic
after
@ukaachen.de.)

Show Only Negatives

 **Key Concepts** 

☒ Update with filters

 Concept Cloud

 Concept Trends

NO

Nitric Oxide Biosynthesis

Nitric Oxide Level

Nitric Oxide Secretion

Exhaled Nitric Oxide

inhaled NO

Fractional Exhaled Nitr...

Nitric Oxide Metabolism

[More »](#)

\$Diseases

 Connections

Inflammation

Oxidative Stress

Injury

Hypertension

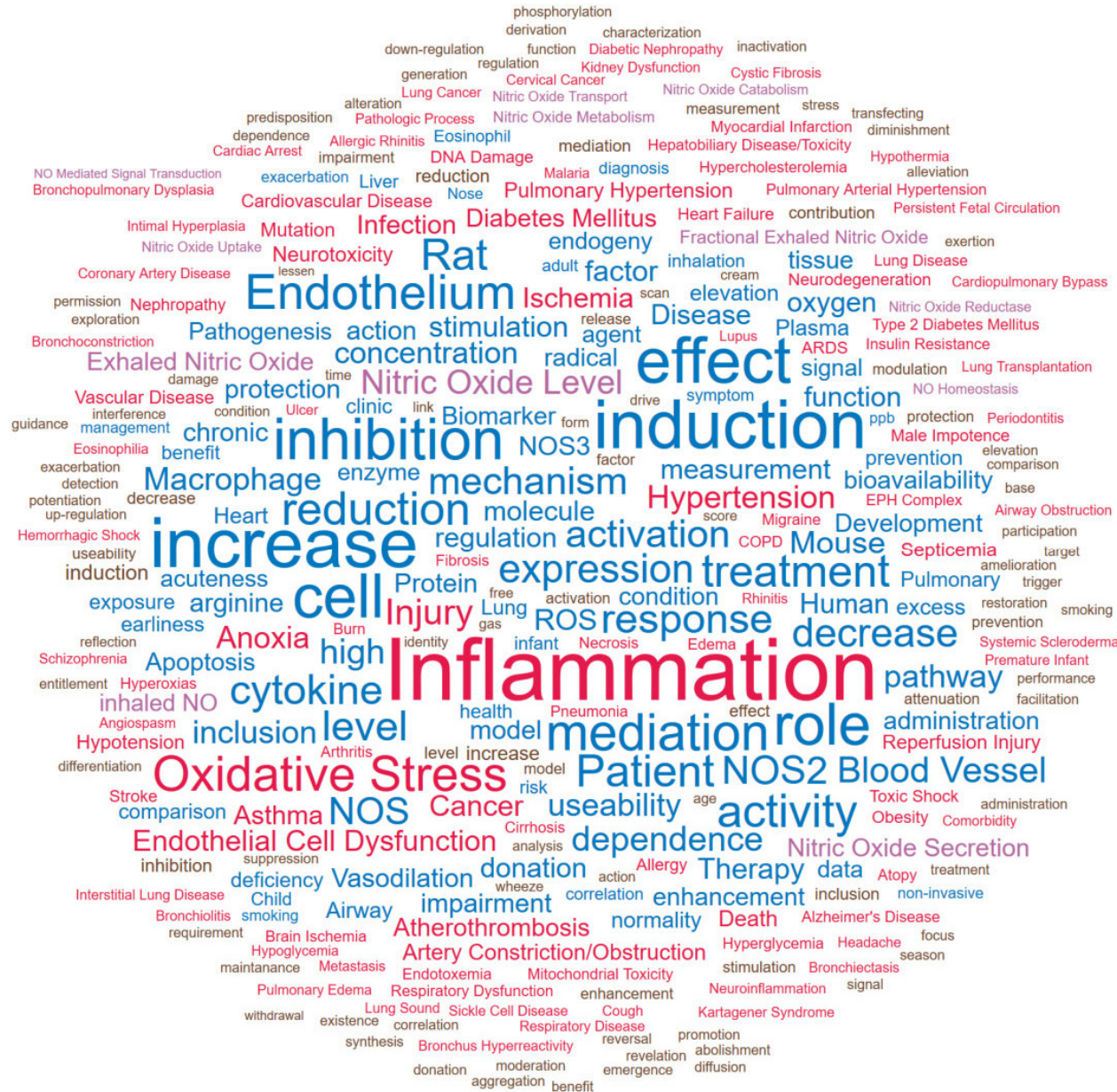
Anoxia

Cancer

Endothelial Cell Dysfu...

-  **bronchial asthma and allergic rhinitis.**  [My Library](#) 
- Gupta N** (Department of Respiratory Allergy and Applied Immunology National Centre of Respiratory Allergy Asthma and Immunology Vallabhbhai Patel
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Crit Care (2015) [Show Abstract »](#)
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- Song WJ** (Department of Internal Medicine Seoul National University College of Medicine Seoul Korea.)
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Allergy Asthma Immunol Res (2015) [Show Abstract »](#)
 In a study evaluating Korean children, *FeNO* levels were not associated with the severity of eosinophilic bronchitis.
[More Relevant Statements »](#)
- 7**  **Brief inhalation of nitric oxide increases resuscitation success and improves 7-day-survival after cardiac arrest in rats: a randomized controlled animal study.**  [My Library](#) 
- Brücken A** (Department of Anesthesiology University Hospital RWTH Aachen Pauwelsstr. 30 52074 Aachen Germany. abruecken@ukaachen.de.)
[More Authors »](#)
Crit Care (2015) [Show Abstract »](#)
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[More Relevant Statements »](#)

Quertle® Concept Cloud



Summarize how the result documents are related to your query

Concept size is the relative **importance**

Interactive visualization selects the corresponding documents

Show Only Negatives

 Key Concepts 

☒ Update with filters

 Concept Cloud

 Concept Trends

NO

Nitric Oxide Biosynthesis

Nitric Oxide Level

Nitric Oxide Secretion

Exhaled Nitric Oxide

inhaled NO

Fractional Exhaled Nitr...

Nitric Oxide Metabolism

[More »](#)

\$Diseases

 Connections

Inflammation

Oxidative Stress

Injury

Hypertension

Anoxia

Cancer

Endothelial Cell Dysfu...



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Crit Care (2015) [Show Abstract »](#)

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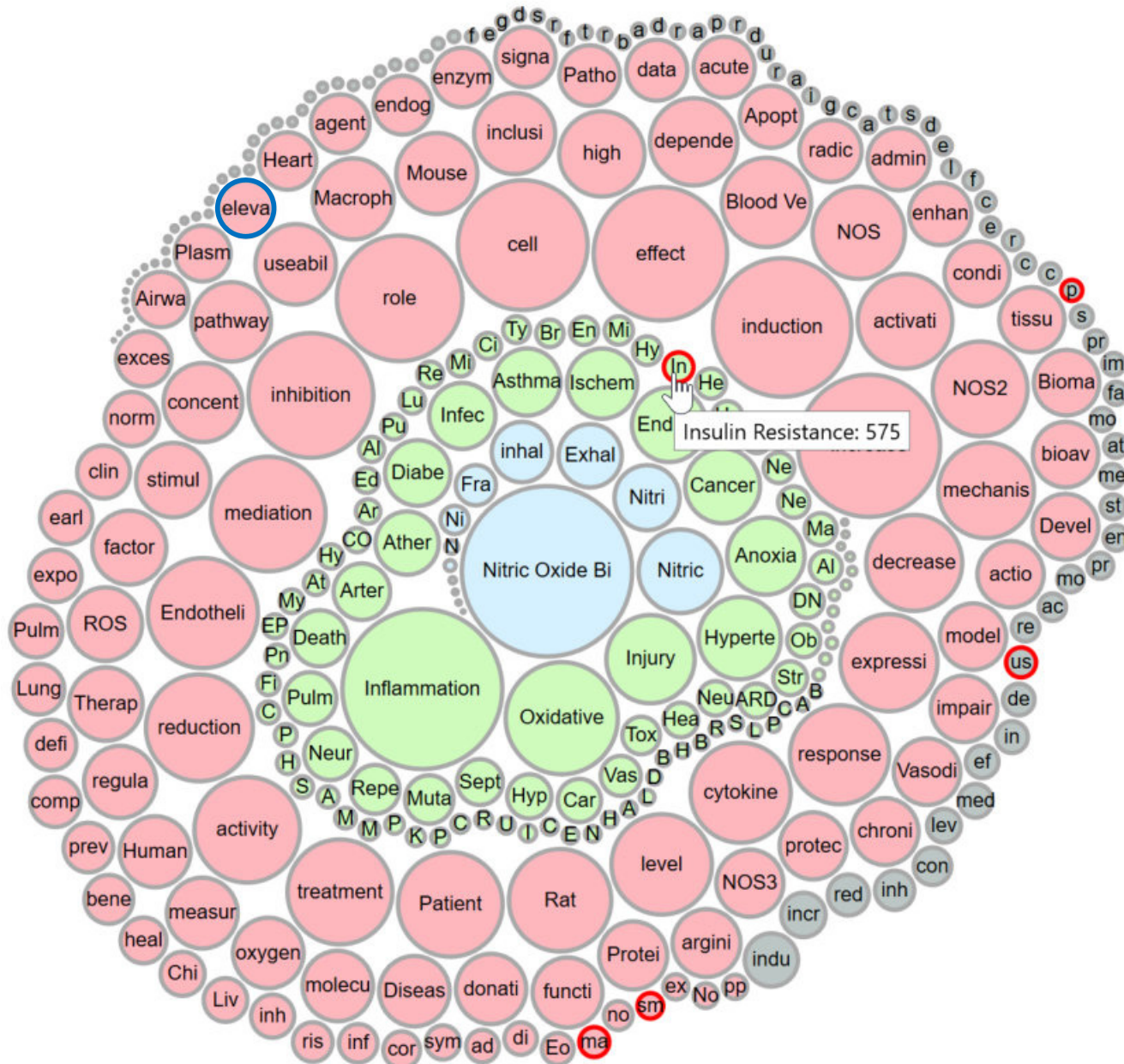
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Crit Care (2015) [Show Abstract »](#)

neocortical injury was ameliorated by *iNO* at 40 ppm, but not at 20 ppm.

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Quertle® Concept Trends



Uncover trends related to your query

Spiral clustering puts similar concept types together

Concept size is the relative **importance**

Red border indicates increasing trend,
Blue border indicates decreasing trend

Interactive visualization selects the underlying documents

melanoma \$Genes

SEARCH



Key Concepts

☒ Update with filter

Concept

Concept

melanoma

Malignant Melanoma

Uveal Melanoma

Amelanotic Melanoma

Mucosal Melanoma

Acral Lentiginous Melanoma

Nodular Melanoma

Superficial Spreading ...

More »

\$Genes



Connections

BRAF

TYR

MLANA

CD8A

SILV

p53

CTLA4



Matsuo Y

More Authors »

(Department of Medicine Center for Molecular Chaperone/Radiobiology and Cancer Virology Cancer Center Medical College of Georgia)

A second example search to find genes that may be involved in melanoma.

We use the Connections visualization to see which genes interact in that process.

6



MiR-21: an environmental driver of malignant melanoma?



My Library



Melnik BC

More Authors »

J Transl Med (2015)

Show Abstract »

PTEN, which suppresses PI3K/AKT signaling, is often mutated in melanomas.

More Relevant Statements »

7



Prognostic parameters for the primary care of melanoma patients: what is really risky in melanoma?



My Library

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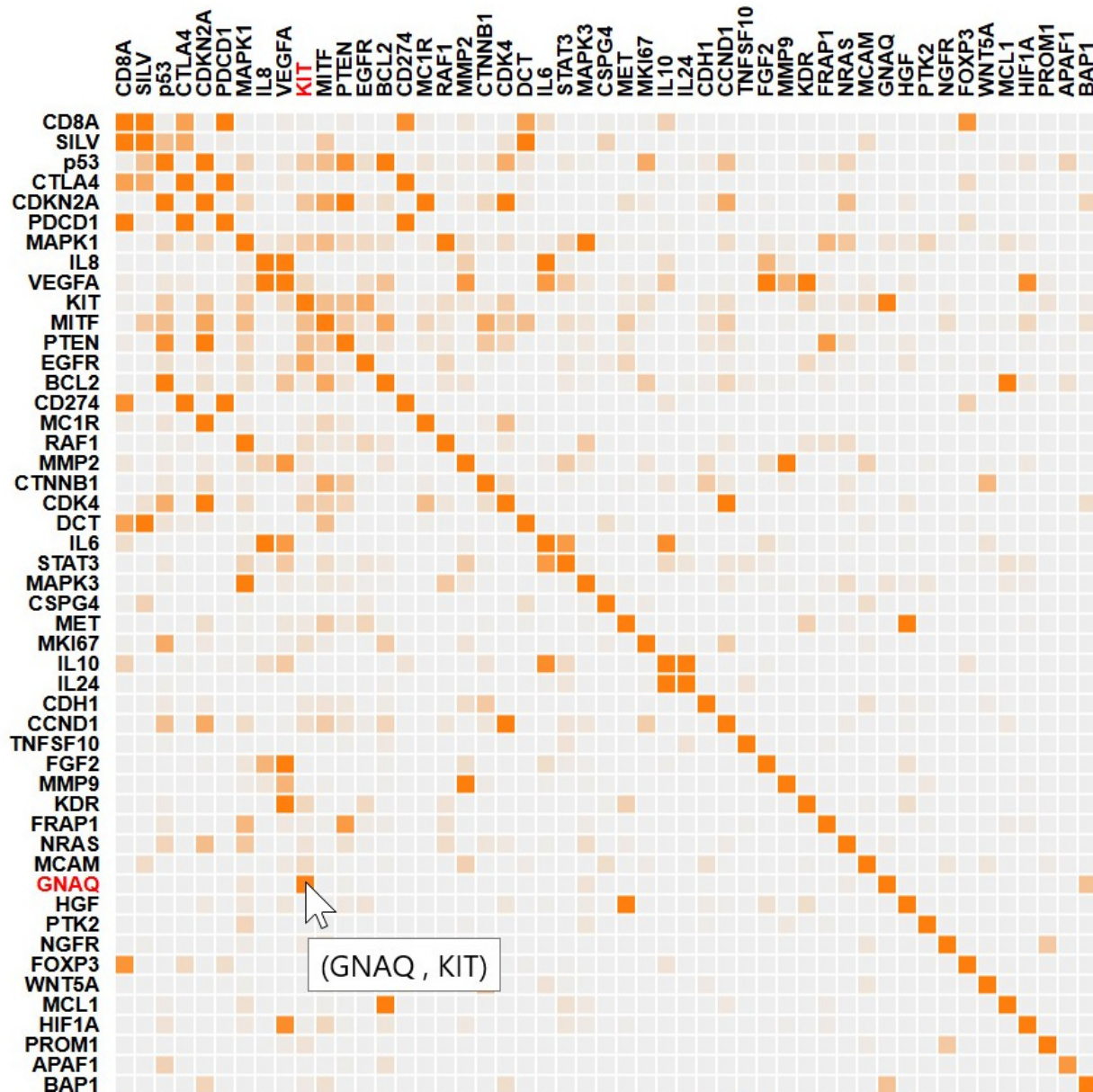
Göppner D (Department of Dermatology and Venereology Otto-von-Guericke-University Hospital Leipziger Str. 44 39120 Magdeburg Germany.)

J Skin Cancer (2011)

Show Abstract »

Although mutations of the β -catenin gene and APC have already been detected, the WNT signaling pathway

Quertle® Concept Connections



Discover hidden connections related to your query

Multiple orderings to emphasize different aspects

Color intensity indicates **significance** of the connection

Interactive visualization selects the documents where two concept are connected

And More



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