

Take Control of Your Research Archives

Janya Journal Processor™



The Janya Journal Processor™ analyzes, identifies and extracts key information from the text of articles in PDF format through the use of innovative natural language processing capabilities. For example, metadata such as title, author, references, journal name, institution, etc. can be mined from scientific journal articles. Further, since the Janya Journal Processor™ is based on the Semantex™ platform, it can also extract and tag domain-specific categories of information such as chemicals, products, diseases, symptoms, interactions, etc. from free text sections. The Janya Journal Processor™ is designed to be extensible, and to enrich content management and advanced search applications.

The Janya Semantex™ platform has historically powered a range of enterprise and SaaS applications via customizable multilingual text analysis. The Janya Journal Processor™ is a unique tool that leverages Semantex's customizable machine learning and grammar rule techniques to extract metadata using document style information, while also providing traditional Semantex™ capabilities for text analysis.

Nucleic Acid
Organ Function
Pharmacologic Substance
Symptom
starvation (41)
pain (22)
edema (20)
...More
Journal
PLoS ONE (114)
BMC Genomics (29)
BMC Cancer (26)
...More
Date
2009 (100)
2008 (88)
2010 (65)
...More
Author
Amdt Hartmann (2)
Bernd Mueller-Roeber (2)
Bo Wang (2)
...More

1-10 of 642

Role of the 2 zebrafish survivin genes in vasculo-angiogenesis, neurogenesis, cardiohematopoiesis

BMC Developmental Biology BioMed Central Research article Role of the 2 zebrafish survivin genes in vasculo-angiogenesis, neurogenesis, cardiohematopoiesis, ...
disease - edema - wounds - vessel - inhibitor of apoptosis protein - hematopoiesis - cells - chromosome - inhibitor of apoptosis protein - pre-mRNA

Floral and insect-induced volatile formation in Arabidopsis lyrata ssp. petraea, a perennial relative of A. thaliana

DOI 10.1007/s00425-009-0921-7 ORIGINAL ARTICLE Floral and insect-induced volatile formation in Arabidopsis lyrata ssp. petraea, a perennial relative of A. thaliana, ...
syndromes - methyl salicylate - humulene - Cell - chromosome - Terpene synthase - cDNA

Development of the rhopalial

DOI 10.1007/s00427-009-0291-y ORIGINAL ARTICLE Development of the rhopalial nervous system in the Cnidaria, Scyphozoa) Nagayasu Nakanishi, ...
- spasm - taurine - tubulin - touch - neurons - cilia - tubulin - rDNA

The Janya Journal Processor™ and Semantex™ can power search and content platforms such as the MarkLogic XML server or SOLR/Lucene. Shown here is a MarkLogic search application that indexes Janya Journal Processor and Semantex-generated XML with metadata and concept categories from medical journal articles.

BMC Genomics BioMed Central Research article

Use of pyrosequencing and DNA barcodes to monitor variations in Firmicutes and Bacteroidetes communities in the gut microbiota of obese humans

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Abstract

Background: Recent studies of 16S rRNA genes in the mammalian gut microbiota distinguished a higher Firmicutes/Bacteroidetes ratio in obese individuals compared to lean individuals. This ratio was estimated using a clonal Sanger sequencing approach which is time-consuming and requires laborious data analysis. In contrast, new high-throughput pyrosequencing technology offers an inexpensive alternative to clonal Sanger sequencing and would significantly advance our understanding of obesity via the development of a clinical diagnostic method. Here we present a cost-effective method that combines 16S rRNA pyrosequencing and DNA barcodes of the Firmicutes and Bacteroidetes 16S rRNA genes to determine the Firmicutes/Bacteroidetes ratio in the gut microbiota of obese humans.

Results

The main result was the identification of DNA barcodes targeting the Firmicutes and Bacteroidetes phyla. These barcodes were validated using previously published 16S rRNA gut microbiota clone libraries. In addition, an accurate F/B ratio was found when the DNA barcodes were applied to short pyrosequencing reads of published gut metagenomes. Finally, the barcodes were utilized to define the F/B ratio of 16S rRNA pyrosequencing data generated from brain abscess pus and cystic fibrosis sputum.

Conclusion

Using DNA barcodes of Bacteroidetes and Firmicutes 16S rRNA genes combined with pyrosequencing is a cost-effective method for monitoring relevant changes in the relative abundance of Firmicutes and Bacteroidetes bacterial communities in microbial ecosystems.

The document display leverages Janya tags for each individual section to reconstruct text content from the original PDF article.

Dynamic facets for guided search and discovery.

Make Your Scientific and Technical Content Discoverable

The Janya Journal Processor™ ingests documents in PDF format and provides dynamic metadata and Semantex™ domain-specific concept categories in a configurable XML format that can be easily indexed by a variety of search and content management systems.



Adapt Metadata Extraction to Custom Knowledge Requirements

The Janya Journal Processor™ leverages document style information such as font sizes, formatting, etc. to identify individual sections and fields within documents. The tool is extensible to a range of PDF article formats and languages to meet custom knowledge requirements. In addition, the full range of the Semantex™ platform's customizable text analysis capabilities are available to any Janya Journal Processor™ solution for deep domain-specific contextual analysis and extraction.





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