

ENTAGEN

- We help clients "Connect the Dots" in Big Data through products & custom solutions
- Innovative, award-winning software, TripleMap & Extera
- Named a 2013 Gartner "Cool Vendor" for Life Sciences
- Specialization in the life sciences, healthcare & related fields
- Pharma, biotech & healthcare customer base including,











- Founded in 2008
- Offices in Boston & Minneapolis



SELECT ENTAGEN CLIENTS





















MILLIPORE





MEDICINE



ENTAGEN INNOVATIVE TECH

Gartner 2013 CoolVendor

Entagen named a 2013 Gartner "Cool Vendor" in Life Sciences





ENTAGEN INNOVATIVE TECH



TripleMap & Extera named the Massachusetts Technology Leadership Council "Innovative Technology of the Year for Big Data" winner in 2012

ENTAGEN & THOMSON REUTERS

- Entagen was acquired by Thomson Reuters in October 2013
- » Entire Entagen team retained in the acquisition
- » Focus remains on TripleMap & Extera technologies
- » Integration of Entagen technologies with Cortellis extends capabilities for our clients
- Entagen technologies backed by a large organization with a deep commitment to the life sciences and healthcare space





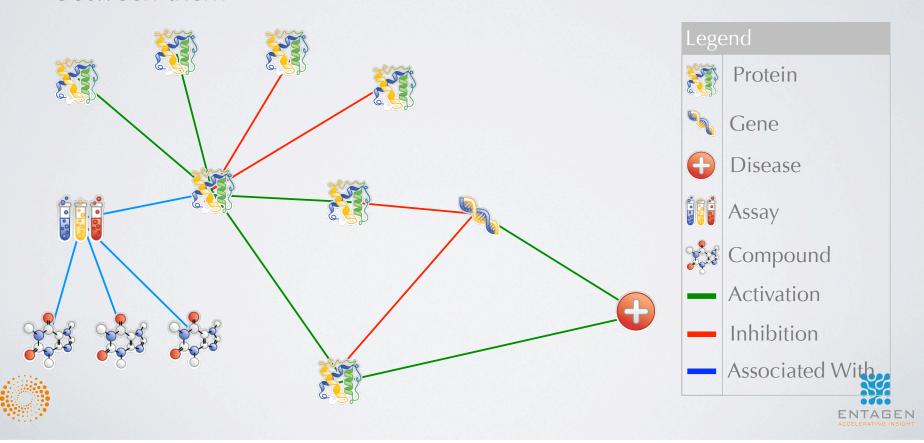






WHAT'S A TRIPLE?

- » Resource Descriptor Framework (RDF) or "triples" are a data formatting standard proposed by W3C
- Allow for powerful, flexible integration of things and the relationships between them



<Something><Does Something><Something Else>

OR

<Something><Has Some><Property>





Put a billion triples together in one place and you have a huge graph of things and the relationships between them.







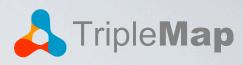
- » Extera is NOT an NLP-based text mining platform.
 - We work synergistically with text mining providers. NLP output is Extera input!
- » Extera is NOT a "triplestore"
 - » Triplestores present performance & scalability challenges
 - Complicated SPARQL queries are the primary interface to triplestores
 - » Triplestores are optimized for SPARQL queries, not highperformance search



- Extera IS a unique platform that provides high-performance indexing, mapreduce & horizontally scalable storage
- Extera IS a "living" data core which connects & integrates structured & unstructured data sources (eg Oracle, RDF, XML, Sharepoint, Documentum, Pubmed, CT.gov, Cortellis)
- Extera DOES provide a RESTful API for everything in it
- » Extera IS secure and deployable behind the firewall
- » Extera DOES bridge structured to unstructured content
- » Extera DOES apply text analytics to create novel associations







Graph search and analytics application



REST API



High-performance, Horizontally Scalable Semantic Data Core





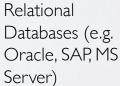












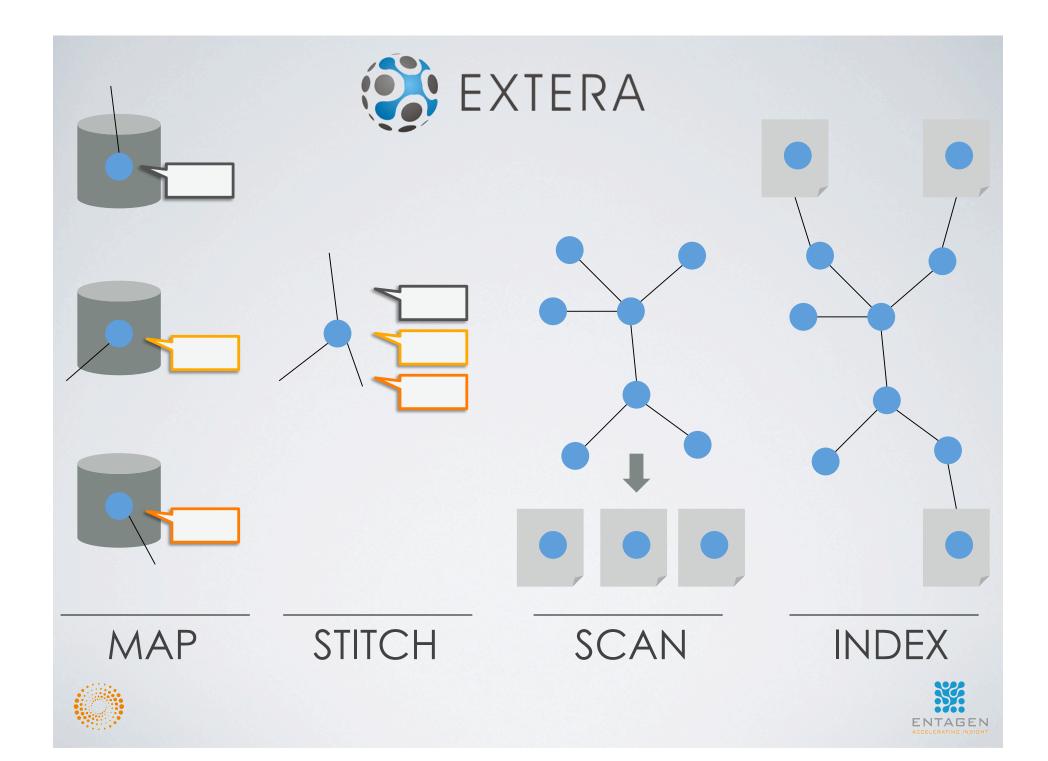


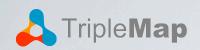


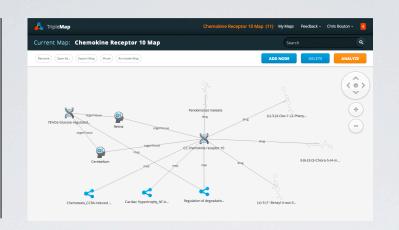
Sharepoint, Documentum, **Patents** Pubmed



















INDEX

API

SPARQL

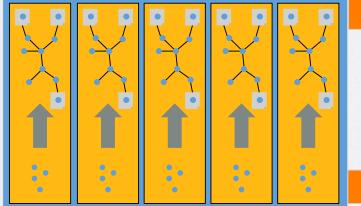
SYNC



PUBMED RDF **FILES**

XML

RDBMS



SPARQL

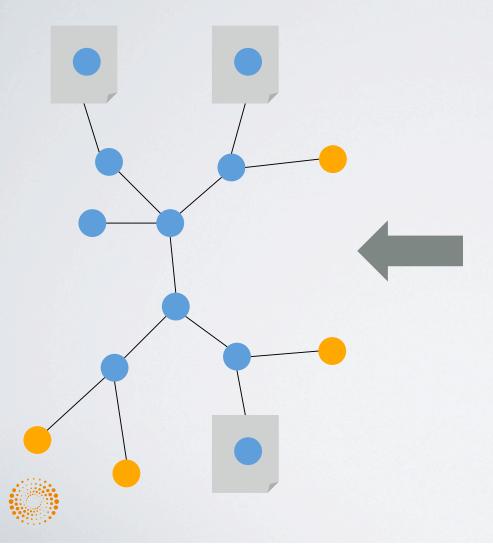


MAPREDUCE





Search Around Text Analytics for Novel Associations



JOURNAL OF VIROLOGY, June 1974, p. 1263-1273 Copyright © 1974 American Society for Microbiology

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Simian Virus 40 Transcription in Productively Infected and Transformed Cells

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Received for publication 19 December 1973

Several independent cell lines transformed by simian virus 40 carry a species of viral RNA of 900,000 to 1,000,000 daltons. A viral RNA species of similar size is found early in the lytic cycle. Late in the y RNA species of about 600,000 and 900,0 species shares nucleotide sequences with, These RNA species are located in the cytople of the viral genome coding for these RNA species are mapped by hybridization of lytic RNA species to fragments of the genome produced by cleavage with Haemophilus aegyptius endonuclease.

cytoplasmi species of v halfway between 18 and 28S rRNA's.

During the late portion of the lytic cycle, two species of viral RNA are observed (38, 42, 43). ments at 16S in sucrose gradients, but migrates of virus-transformed cells. Additionally, the size similarly to 18S rRNA in acrylamide gels. The of the early viral RNA is now more precisely larger of the two late lytic RNAs sediments in demonst sucrose gradients and migrates in gels like the relative early and transformed viral RNAs. The present (one transformed, one early lytic, two late bridizing different lytic RNA species to differ

The interpretation of the present experiments enzyme cleavage is aided greatly by several recent advances in the field of SV40 transcription: (i) the descrip-tion of the strand orientation of the SV40 the field of SV40 transcription: (i) the description of the strand orientation of the SV40 transcription (12, 15, 29); (ii) the use of restriction enzyme fragments to create a map of the SV40 genome (3, 33); and (iii) the use of these fragments in determining the regions of early

Simian virus 40 (SV40) demonstrates a pro- and late transcription on the SV40 genome map ductive, lytic infection in monkey kidney cells. (13, 30). These studies now indicate that the Infection of cells from a variety of other mam-transcription of the stable, early lytic RNA mals leads to transformation of these cells with derives from about 35% of one strand of the no production of progeny virus. During the early SV40 DNA genome. The transcription of stable portion of the lytic cycle, before the onset of viral RNA beginning late in the lytic cycle is derived from about 65% of the other strand of and (42, 43). A the DNA genome. These two regions do not ize to early lytic overlap on the genome map. The regions of early mouse 3T3 cells and late transcription have now been mapped transformed by SV40 (38, 42). The early and relative to the restriction enzyme cleavage sites transformed viral RNAs sediment as molecules on the viral genome. Additionally, the absolute of about 19S, but migrate in acrylamide gels directions of transcription of the early and late regions relative to the restriction enzyme sites have now been determined (13, 30).

The present report presents information on The smaller of the two late lytic RNAs sedi- the size of the viral transcripts made in a variety of the two late viral riments determines studies were designed to investigate the rela- the association of the early and late RNAs with tionship between these four viral RNA species different portions of the SV40 genome by hyent genome fragments generated by restriction

MATERIALS AND METHODS

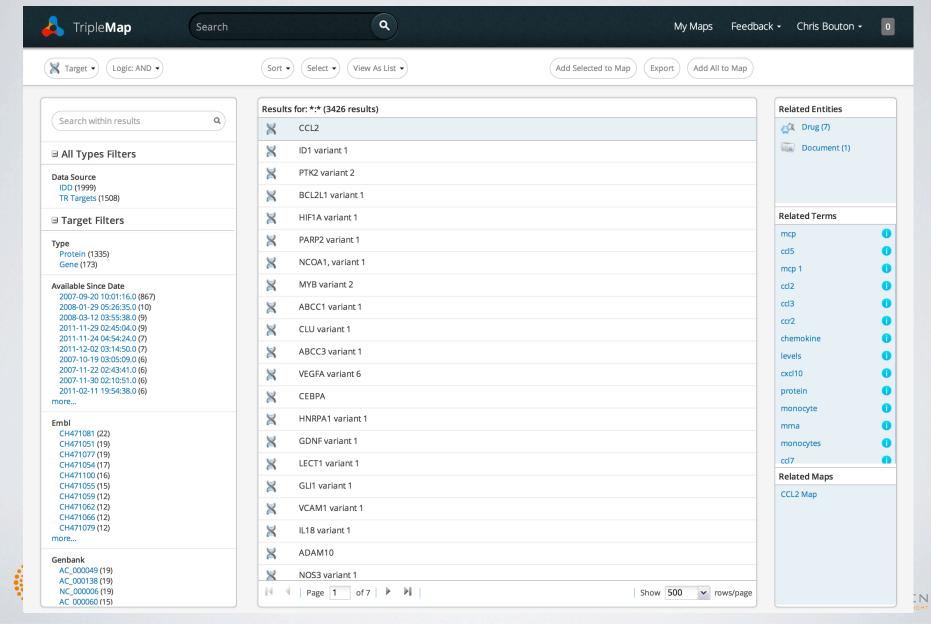




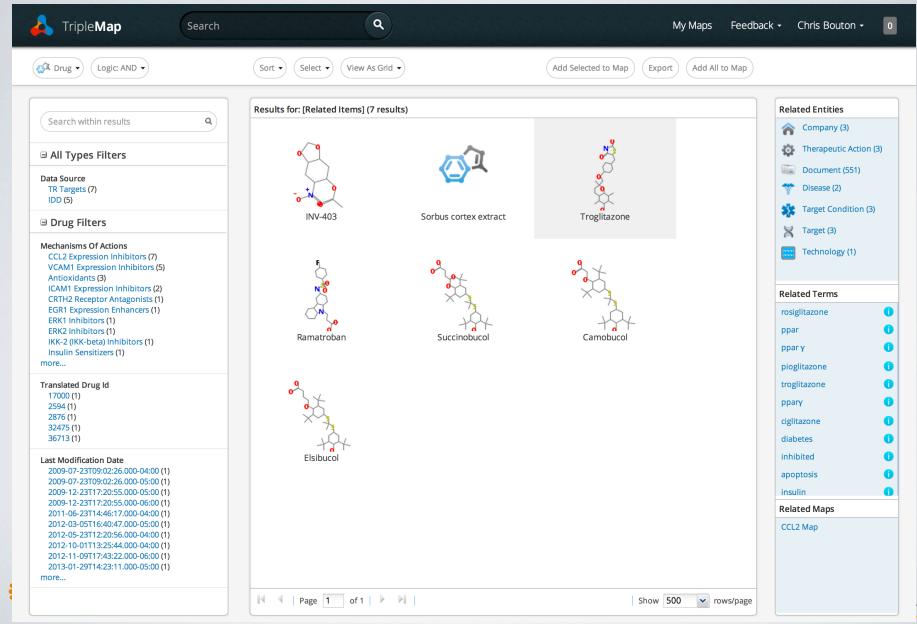




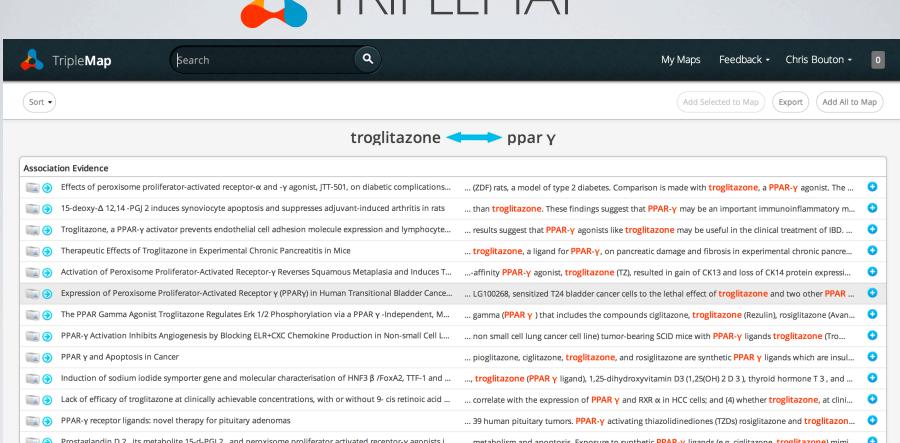












Prostaglandin D 2, its metabolite 15-d-PGJ 2, and peroxisome proliferator activated receptor-γ agonists i... ... metabolism and apoptosis. Exposure to synthetic PPAR-y ligands (e.g. ciglitazone, troglitazone) mimi... The Critical Role of PPAR y in Human Malignant Melanoma ... family of PPAR y agonists includes rosiglitazone, pioglitazone, ciglitazone, and troglitazone... PPAR Gamma Activators: Off-Target Against Glioma Cell Migration and Brain Invasion ... by applying a PPAR γ inactive derivative of the TDZ troglitazone (Rezulin) which potently counteracts... Relationship between arachidonic acid pathway and human renal cell carcinoma ... of 10–40 μM by using MTT assay (Table 1). RCC cells treated with PPAR-γ ligands (25 μM troglitazon... PPAR y in Neuroblastoma ... troglitazone induced PPAR y -dependent apoptosis [69]. Similar data were reported later on by Sch... Activating Effect of Benzbromarone, a Uricosuric Drug, on Peroxisome Proliferator-Activated Receptors ... benzbromarone for PPAR y was weak and clearly inferior to the affinities of troglitazone and pioglit...

Hexarelin Signaling to PPAR $\boldsymbol{\gamma}$ in Metabolic Diseases ... of these genes were shared with TZD troglitazone treatment, indicating that PPAR γ may be consider...

Troglitazone Induces Extracellular Matrix and Cytoskeleton Remodeling in Mouse Collecting Duct Cells 2.2. Chemicals and Reagents Troglitazone (Sigma) is a synthetic PPAR γ agonist and was used at 5 μ ... Page 1 of 1

Rosiglitazone Prevents High Glucose-Induced Vascular Endothelial Growth Factor and Collagen IV Expres..

... nucleus, and that troglitazone (an agonist of PPAR Y) prevents cellular dedifferentiation as detected ...



