The Semantic Shift

How Content Enrichment Is Changing The Way Publishers Serve Their Customers

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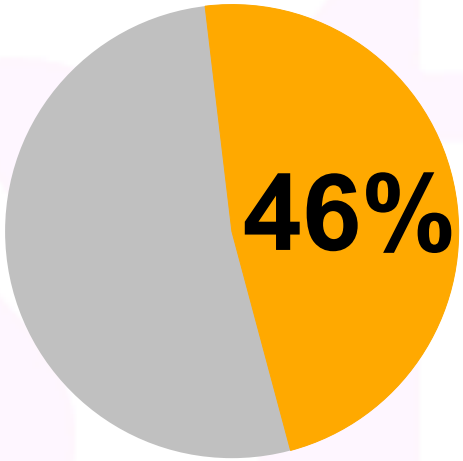
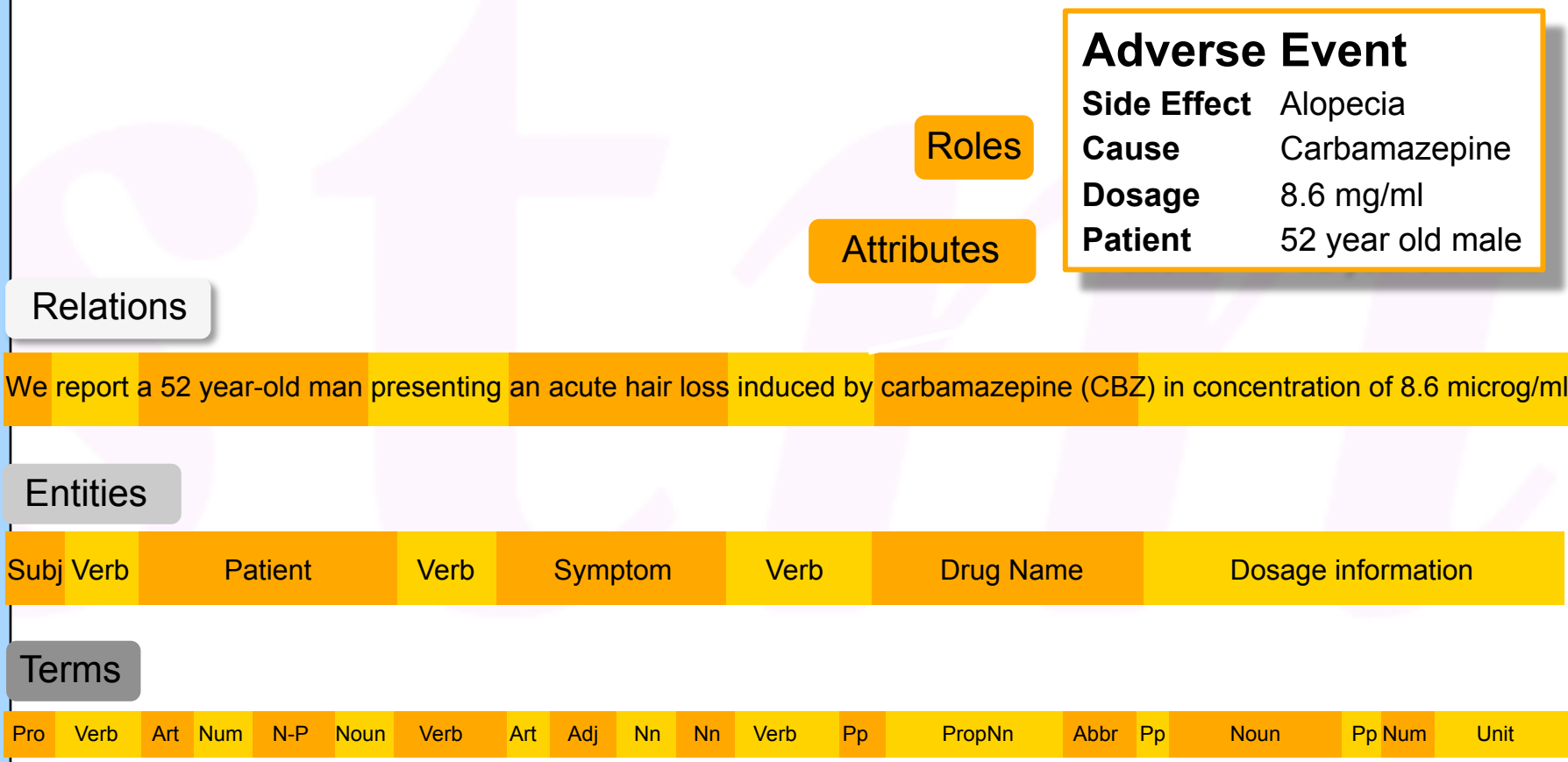


semantically enrich their content

Scientific Journals Publishers

Source : 2011 study by the Publishing Research Consortium

What Is Semantic Content Enrichment?



We report a 52 year-old man presenting an acute hair loss induced by carbamazepine (CBZ) in concentration of 8.6 microg/ml

What Is Semantic Content Enrichment?

A case of hair loss induced by carbamazepine

Kohno Y, Ishii A, Shoji S, Department of Clinical Neurology, Tsukuba University.

We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ). The remarkable scalp hair loss started within a week after CBZ administration. There was no evidence of dermatitis or allergic reaction, or other cause for the hair loss. The serum concentration of CBZ was 8.6 microg/ml therapeutic range 8-12 microg/ml). CBZ was discontinued, and the hair loss stopped within several days with new hair growth. Medication-induced hair loss is an occasional adverse effect of many drugs used for neuropsychological diseases. CBZ also induces hair loss and its frequency was reported below 2%. Only a limited number of detailed case reports describing CBZ-induced hair loss were available, and we found these cases could divide into two groups with regard to a delay in starting hair loss after administration of CBZ. In one group, the hair loss started within a week suggesting anagen effluvium and in another it started after two or three months suggesting telogen effluvium. This finding suggests the causative mechanism of CBZ-induced hair loss is not unitary.

Symptoms
- Alopecia
- Dermatitis
- Allergic reaction
- Anagen effluvium
- Telogen effluvium

Diseases
- Neuropsychological diseases

Drugs
- Carbamazepine
- CBZ

Dosage information
- 8.6 microg./ml
- 8-12 microg./ml

Patient information
- 52 year old
- man

People
- Kohno Y
- Ishii A
- Shoji S

Organizations
- Dept of Clinical Neurology, Tsukuba University

Side-effect Relationships
- Drug-induced alopecia

What Is Semantic Content Enrichment?

A case of hair loss induced by

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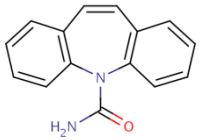
Carbamazepine

Accession Number
DB00564 (APRD00337)



Brand names
Apo-Carbamazepine
Atretol
Biston
Calepsin
[…]

Indication
For the treatment of epilepsy and pain associated with true trigeminal neuralgia.

Pharmacodynamics
Carbamazepine, an anticonvulsant structurally similar to tricyclic antidepressants, is used to treat partial seizures, tonic-clonic seizures, pain of neurologic origin such as trigeminal neuralgia, and psychiatric disorders including manic-depressive illness
[…]

Toxicity Mild ingestions cause vomiting, drowsiness, ataxia, slurred speech, nystagmus, dystonic reactions, and hallucinations. Severe intoxications may produce
[…]

Dosage forms

Suspension	Oral	
Tablet	Oral	[…]

DrugBank

Kohno Y | Ishii A | Shoji S

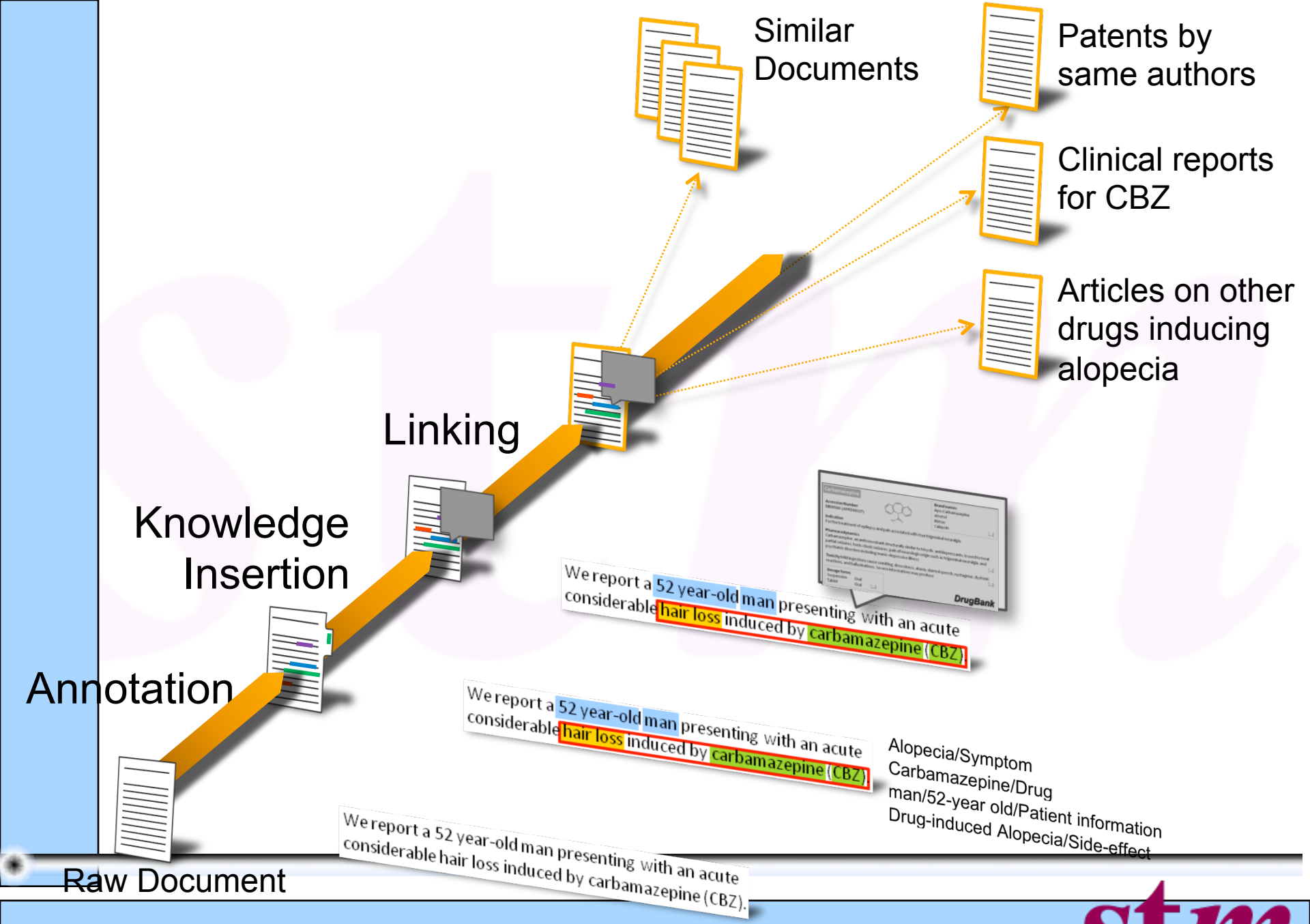
Organizations

Dept of Clinical Neurology, Tsukuba University

Side-effect Relationships

Drug-induced alopecia

stm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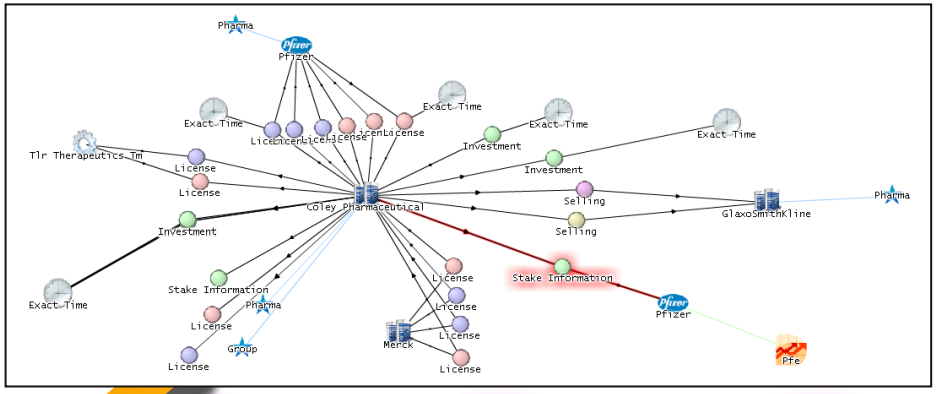
DrugBank
We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ).
We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ).
Alopecia/Symptom
Carbamazepine/Drug
man/52-year old/Patient information
Drug-induced Alopecia/Side-effect



Analytics

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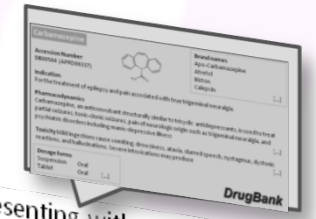


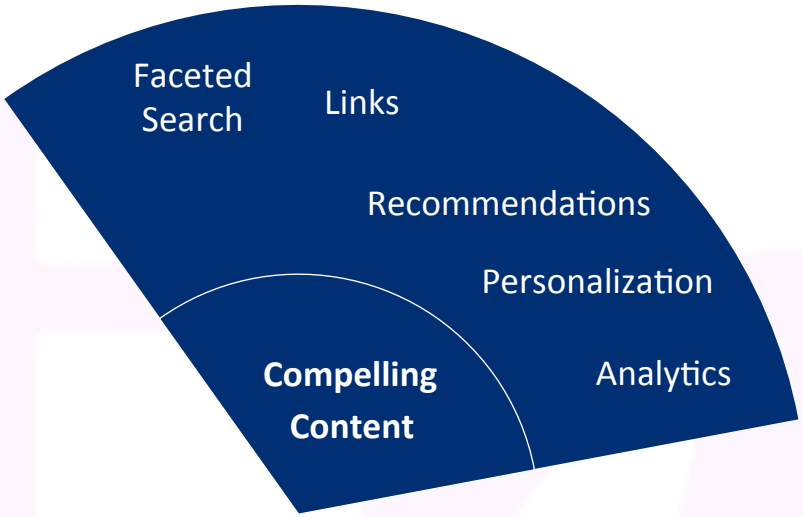
We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ).

We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ).

Alopecia/Symptom
Carbamazepine/Drug
man/52-year old/Patient information
Drug-induced Alopecia/Side-effect

We report a 52 year-old man presenting with an acute considerable hair loss induced by carbamazepine (CBZ).

Why?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Links
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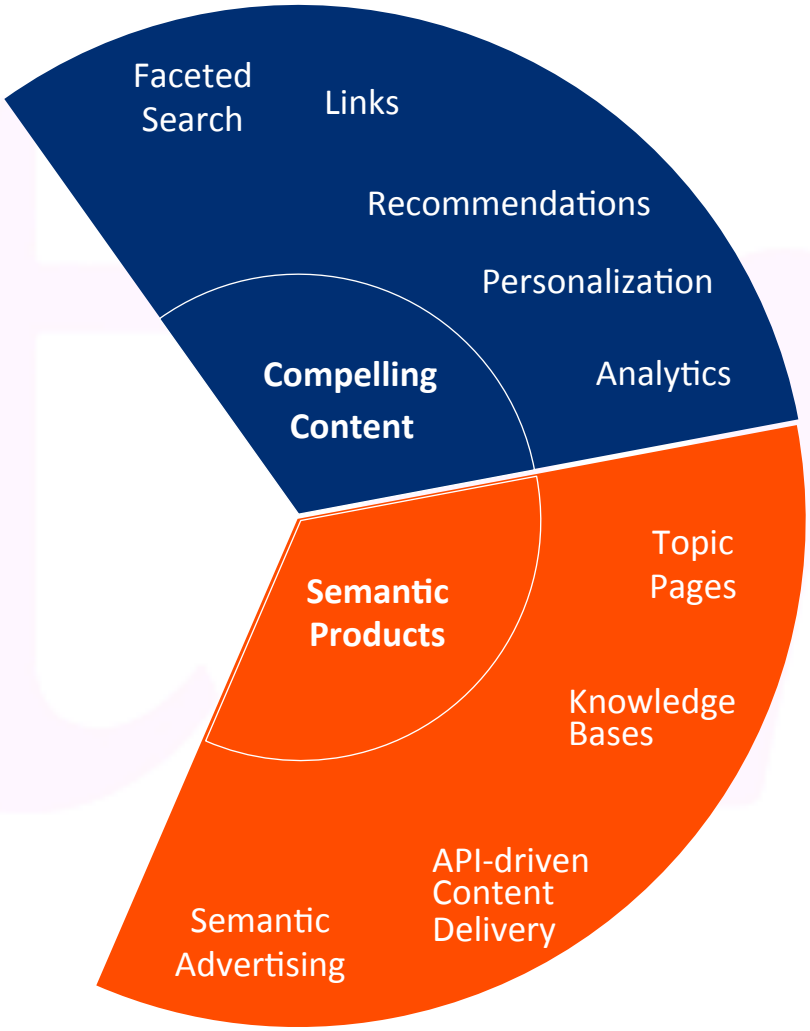
Why?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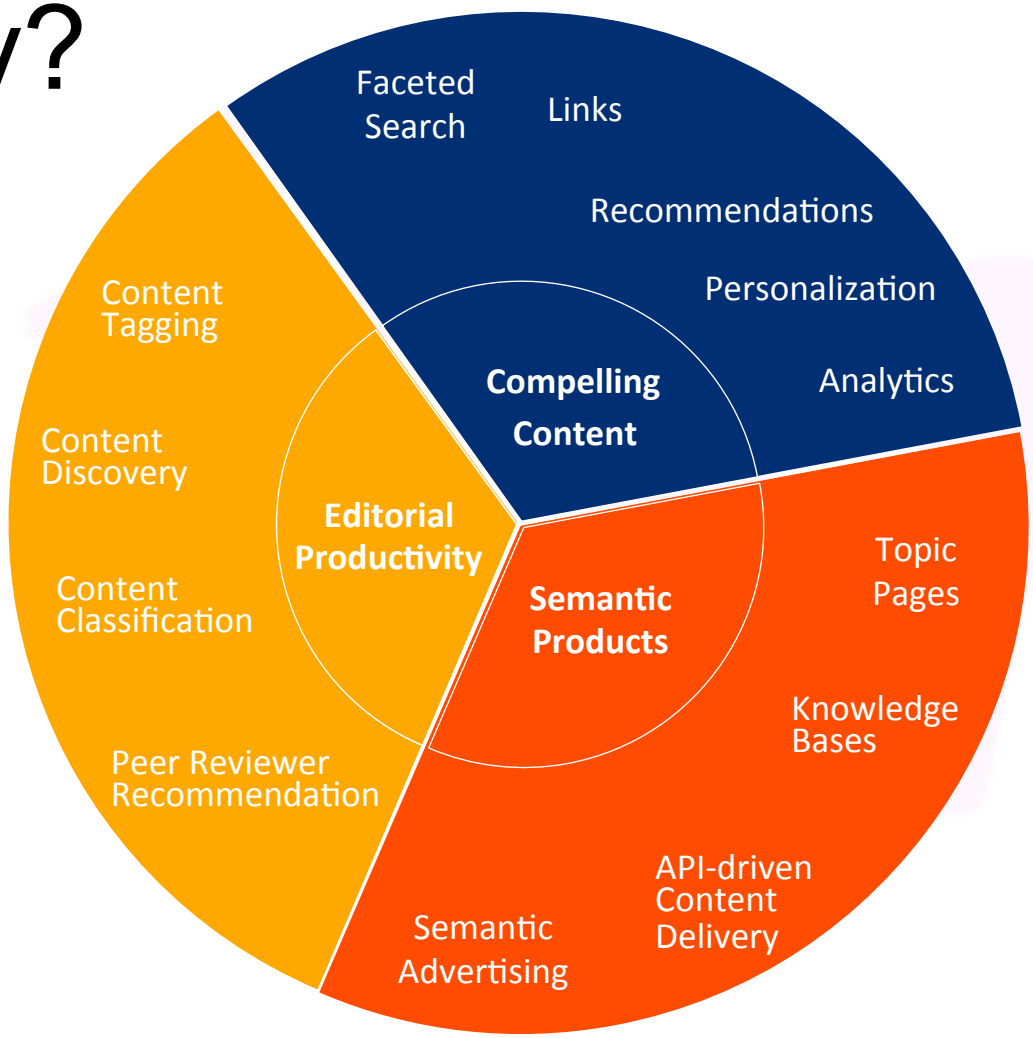
Why?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Topic Pages
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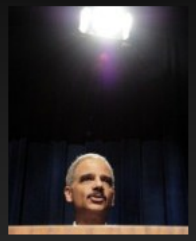

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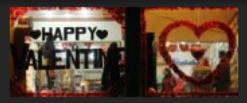

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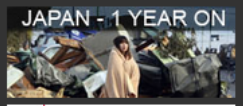

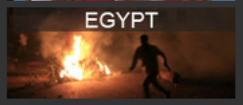

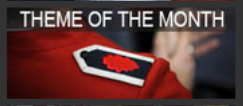

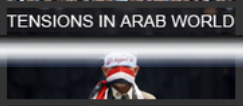

Program Profile — Airbus A319/A320/A321

Airbus A319/A320/A321 At-A-Glance

The A320 launched this family of twin-turbofan, narrowbody airliners, making its first flight in February, 1987 with deliveries following in 1988. Initial deliveries of the stretched A321 occurred in 1994. The shorter A319 entered service in 1996. All models are available with a choice of a CFM International CFM56 variant or International Aero Engines V2500 engines. The A319 typically seats 124 passengers, the A320 carries 150, and the A321 seats 185. Through 2008, Airbus delivered 1,133 A319s, 2,036 A320s, and 448 A321s. Including all three models, production of 3,395 aircraft is forecast from 2009 through 2018. The direct competition for the A320 family is the Boeing 737 series as well as the newly launched Bombardier CSeries.

Airbus A319/320/321 Program Suppliers | Recent Airbus A319/320/321 Articles

Organization Name	Country	Program Role
Airbus S.A.S.	France	Prime Contractor
2Source Manufacturing, Inc.	Canada	Bushings & bushing-like products
AAXICO	United States	
Abbott Technologies, Inc.	United States	
ACC la Jonchere	France	
Accurate Bushing Co. Inc.	United States	Bearings
Acorn Surface Technology	England	Finishing
AD Aerospace, Inc.	United States	STC retrofit for cockpit door surveillance video systems
AdChem Mfg. Tech, Inc.	United States	Jet engine components
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Organizing knowledge spillovers when basic and applied research are interdependent: German biotechnology policy in historical perspective

Mark Lehrer

From the issue entitled "Symposium: Bringing Science to Life, Part I"

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rganizational forms of
rch scientists even
The analysis charts the

emergent "networks (1990s) as organizational vehicles for conducting biotechnology innovation. A constant of German R&D policy for most of the 20th century, and one underlying the initial reliance on corporatist networks in biotechnology, was the tendency to exclude universities from major R&D

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The splicing factor SRSF1 proliferation to promote ma transformation

Olga Anczuków, Avi Z Rosenberg, Martin Akerma Muthuswamy & Adrian R Krainer

Affiliations | Contributions | Corresponding autho

Nature Structural & Molecular Biology **19**, 220–228 (

Received 21 March 2011 | Accepted 16 November 2

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Last modified January 25, 2012. Version 152. History...

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Clusters with 100%, 90%, 50% identity | Documents (6) | Third-party data — text xml rdf/xml gff fasta

Names · Attributes · General annotation · Ontologies · Interactions · Alt products · Sequence annotation · Sequences · References · Cross-refs · Entry info · Documents — Customize order

Names and origin

Protein names	*Recommended name:* Serine/arginine-rich splicing factor 1 *Alternative name(s):* Alternative-splicing factor 1 Short name=ASF-1 Splicing factor, arginine/serine-rich 1 pre-mRNA-splicing factor SF2, P33 subunit
Gene names	Name: SRSF1 Synonyms: ASF, SF2, SF2P33, SFRS1 ORF Names: OK/SW-cl.3
Organism	Homo sapiens (Human)
Taxonomic identifier	9606 [NCBI]
Taxonomic lineage	Eukaryota › Metazoa › Chordata › Craniata › Vertebrata › Euteleostomi › Mammalia › Eutheria › Euarchontoglires › Primates › Haplorrhini › Catarrhini › Hominidae › Homo

Protein attributes

Sequence length	248 AA.
Sequence status	Complete.
Sequence processing	The displayed sequence is further processed into a mature form.
Protein existence	Evidence at protein level

General annotation (Comments)

Function	Plays a role in preventing exon skipping, ensuring the accuracy of splicing and regulating alternative splicing. Interacts with other spliceosomal components, via the RS domains, to form a bridge between the 5'- and 3'-splice site binding components, U1 snRNP and U2AF. Can stimulate binding of U1 snRNP to a 5'-splice site-containing pre-mRNA. Binds to purine-rich RNA sequences, either the octamer, 5'-RGAAGAAC-3' (r=A or G) or the decamers, AGGACAGAGC/AGGACGAAGC. Binds preferentially to the 5'-CGAGGCG-3' motif in vitro. Three copies of the octamer constitute a powerful splicing enhancer in vitro, the ASF/SF2 splicing enhancer (ASE) which can specifically activate ASE-dependent splicing. Isoform ASF-2 and isoform ASF-3 act as splicing repressors. (Ref.11) (Ref.12)
Subunit structure	Consists of two polypeptides of p32 and p33. In vitro, self-associates and binds SRSF2, SNRNP70 and U2AF1 but not U2AF2. Binds SREK1/SFRS12. Interacts with SAFB/SAFB1. Interacts with PSIP1/LEDGF. Interacts with SRPK1. Identified in the spliceosome C complex. Interacts with RSRC1 (via Arg/Ser-rich domain). Interacts with ZRSR2/U2AF1-RS2. Interacts with CCDC55 (via C-terminus). Interacts with SRPK1 and a sliding docking interaction is essential for its sequential and processive phosphorylation by SRPK1. (Ref.10) (Ref.15) (Ref.17) (Ref.18) (Ref.19) (Ref.22) (Ref.24) (Ref.39)
Subcellular location	Cytoplasm. Nucleus speckle. Note: In nuclear speckles. Shuttles between the nucleus and the cytoplasm. (Ref.16) (Ref.20) (Ref.22)
Domain	The RRM 2 domain plays an important role in governing both the binding mode and the phosphorylation mechanism of the RS domain by SRPK1. RS domain and RRM 2 are uniquely positioned to initiate a highly directional (C-terminus to N-terminus) phosphorylation reaction in which the RS domain slides through an extended electronegative channel separating the docking groove of SRPK1 and the active site. RRM 2 binds toward the periphery of the active site and guides the directional phosphorylation mechanism. Both the RS domain and an RRM domain are required for nucleocytoplasmic shuttling. (Ref.11) (Ref.41)
Post-translational modification	Phosphorylated by CLK1, CLK2, CLK3 and CLK4. Phosphorylated by SRPK1 at multiple serines in its RS domain via a directional (C-terminal to N-terminal) and a dual-track mechanism incorporating both processive phosphorylation (in which the kinase stays attached to the substrate after each round of phosphorylation) and distributive phosphorylation steps (in which the kinase and substrate dissociate after each phosphorylation event). The RS domain of SRSF1 binds to a docking groove in the large lobe of the kinase domain of SRPK1 and this induces certain structural changes in SRPK1 and/or RRM 2 domain of SRSF1, allowing RRM 2 to bind the kinase and initiate phosphorylation. The cycles continue for several phosphorylation steps in a processive manner (steps 1-8) until the last few phosphorylation steps (approximately steps 9-12). During that time, a mechanical stress induces the unfolding of the beta-4 motif in RRM 2, which then docks at the docking groove of SRPK1. This also signals RRM 2 to

Highlighting tool

☑ Genes and Proteins

Serine/arginine-r
SRSF1
Homo sapiens

View in UniProt
View in Entrez Gene
View in Antibodypedia

Abstract

Abstract • Introduction • Results gments •
Author information • Supplemen

The splicing-factor oncoprotein SRSF1 (also known as SF2/ASF or ASF/SF2) is upregulated in breast cancers. We investigated the ability of SRSF1 to transform human and mouse mammary epithelial cells *in vivo* and *in vitro*. SRSF1-overexpressing COMMA-1D cells formed tumors, following orthotopic transplantation to reconstitute the mammary gland. In three-dimensional (3D) culture, SRSF1-overexpressing MCF-10A cells formed larger acini than control

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Only genes with antibodies

Advanced search

Found **1** genes for '**uniprot:Q07955**' with antibodies

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#	GENE NAME	FAMILY	PROVIDER	ANTIBODY	REFS	ANTIBODY TYPE	WB	EL	IF	IP
1.	**SRSF1** **Synonyms:** ASF, FLJ53078, MGC5228, SF2, SF2p33, SFRS1, SRp30a **Description:** serine/arginine-rich splicing factor 1	Mb	LifeSpan BioSciences, Inc. [5] Show All	LS-B2340		Monoclonal	●		●	●
				LS-B3263		Monoclonal	●		●	
			Novus Biologicals [3] Show All	H00006426-B01		Polyclonal	●	●		
				NBP1-19093		Polyclonal	●			●
			Proteintech Group [1]	12929-2-AP		Polyclonal	●	●		
			Sigma-Aldrich [3] Show All	AV40691		Polyclonal				
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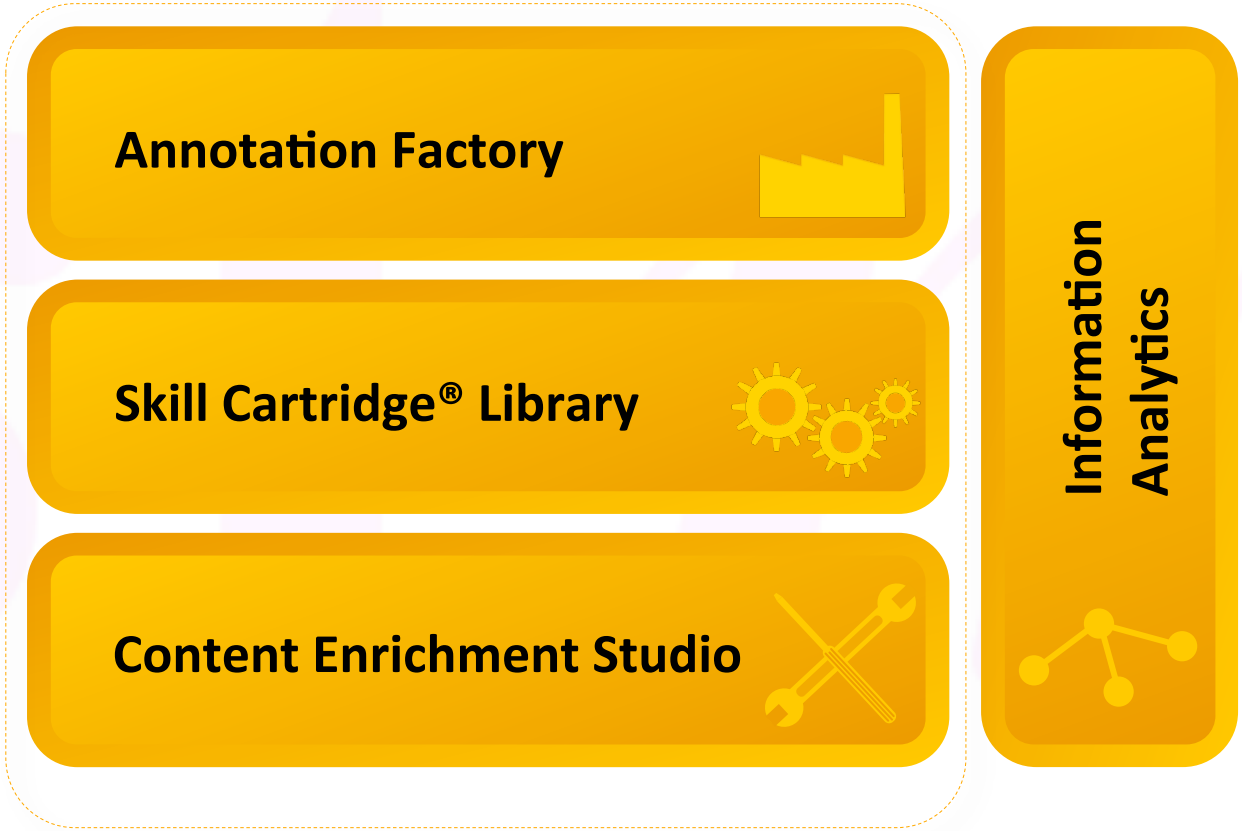

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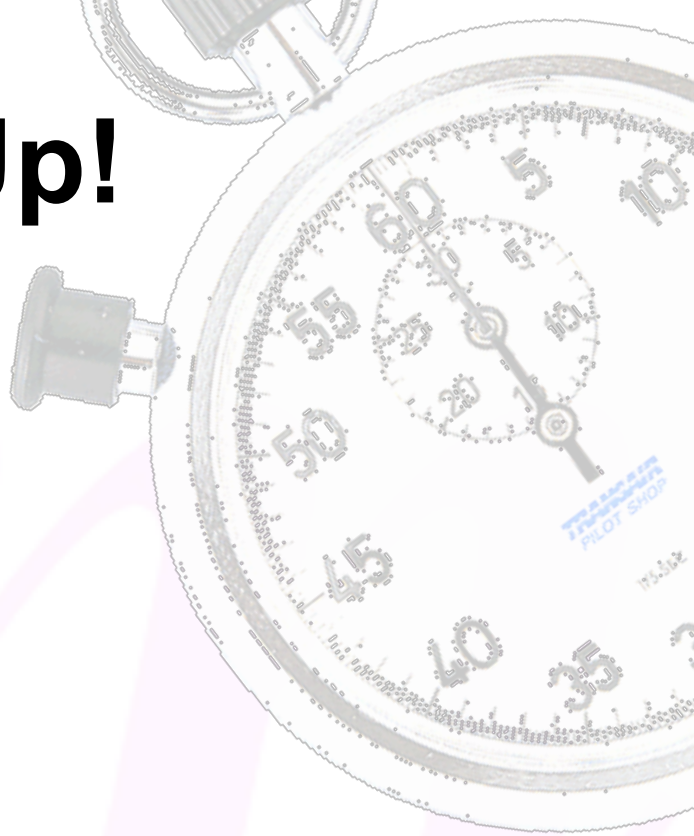

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