Schema documentation for xbel.xsd

may 13, 2011

Table of Contents

Namespace: "http://www.belscript.org/schema/xbel"

Schema(s)

Main schema `xbel.xsd`

Namespace	http://www.belscript.org/schema/xbel
Properties	attribute form default: qualified
	element form default: qualified

Included schema `xbel-annotations.xsd`

Namespace	http://www.belscript.org/schema/xbel
Properties	attribute form default: qualified
	element form default: qualified

Element(s)

Element `bel:comment`

Namespace	http://www.belscript.org/schema/xbel
Annotations	A comment optionally used with statements.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Elements bel:statement, bel:statementGroup

Source	`<xs:element name="comment" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>A comment optionally used with statements.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:copyright`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document copyright information.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:header

Source	`<xs:element name="copyright" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>Document copyright information.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:name`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document name.

Diagram	
Type	xs:string
Properties	content: simple
Used by	Elements bel:header, bel:statementGroup

Source	`<xs:element name="name" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document name.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Element `bel:version`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document version information.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:header

Source	`<xs:element name="version" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document version information.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`
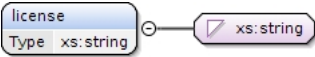
Element `bel:contactInfo`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document contact information.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:header

Source	`<xs:element name="contactInfo" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document contact information.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`
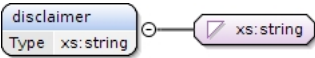
Element `bel:author`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document author.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:authorGroup

Source	`<xs:element name="author" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document author.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`
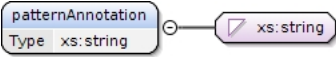
Element `bel:license`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document license.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:licenseGroup

Source	`<xs:element name="license" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document license.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Element `bel:disclaimer`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Document disclaimer.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:header

Source	`<xs:element name="disclaimer" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Document disclaimer.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Element `bel:patternAnnotation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains a pattern-based value.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:annotationDefinition

Source	`<xs:element name="patternAnnotation" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Contains a pattern-based value.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Element `bel:listValue`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains a list-based value.
Diagram	
Type	xs:string
Properties	content: simple
Used by	Element bel:listAnnotation

Source	`<xs:element name="listValue" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>Contains a list-based value.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:uriAnnotation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Value specifed by a URI resource.
Diagram	uriAnnotation Type xs:anyURI ⊖— xs:anyURI
Type	xs:anyURI
Properties	content: simple
Used by	Element bel:annotationDefinition

Source	`<xs:element name="uriAnnotation" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>Value specifed by a URI resource.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:usage`
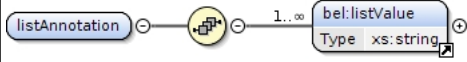
Namespace	http://www.belscript.org/schema/xbel
Annotations	Annotation usage explaining how to filter on annotation values.
Diagram	usage Type xs:string ⊖— xs:string
Type	xs:string
Properties	content: simple
Used by	Element bel:annotationDefinition

Source	`<xs:element name="usage" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>Annotation usage explaining how to filter on annotation values.</`
	`xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:description`
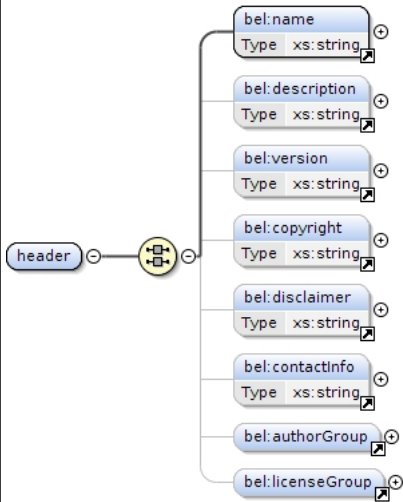
Namespace	http://www.belscript.org/schema/xbel
Annotations	General element description.
Diagram	description Type xs:string ⊖— xs:string
Type	xs:string
Properties	content: simple
Used by	Elements bel:annotationDefinition, bel:header

Source	`<xs:element name="description" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>General element description.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `bel:listAnnotation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains a list of values.

Diagram	
Properties	content: complex
Used by	Element bel:annotationDefinition
Model	bel:listValue+
Children	bel:listValue

Instance	```xml
	<bel:listAnnotation>
	  <bel:listValue>{1,unbounded}</bel:listValue>
	</bel:listAnnotation>
	``

Source	```xml
	<xs:element name="listAnnotation">
	  <xs:annotation>
	    <xs:documentation>Contains a list of values.</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element ref="bel:listValue" maxOccurs="unbounded"/>
	    </xs:sequence>
	  </xs:complexType>
	</xs:element>
	``

Element `bel:header`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Provides ownership and legal context for the document.
Diagram	
Properties	content: complex
Used by	Element bel:document
Model	ALL(bel:name bel:description{0,1} bel:version{0,1} bel:copyright{0,1} bel:disclaimer{0,1} bel:contactInfo{0,1} bel:authorGroup{0,1} bel:licenseGroup{0,1})
Children	bel:authorGroup, bel:contactInfo, bel:copyright, bel:description, bel:disclaimer, bel:licenseGroup, bel:name, bel:version

Instance	```xml
	<bel:header>
	  <bel:name>{1,1}</bel:name>
	  <bel:description>{0,1}</bel:description>
	  <bel:version>{0,1}</bel:version>
	  <bel:copyright>{0,1}</bel:copyright>
	  <bel:disclaimer>{0,1}</bel:disclaimer>
	  <bel:contactInfo>{0,1}</bel:contactInfo>
	  <bel:authorGroup>{0,1}</bel:authorGroup>
	  <bel:licenseGroup>{0,1}</bel:licenseGroup>
	</bel:header>
	``

Source	```xml
	<xs:element name="header">
	  <xs:annotation>
	    <xs:documentation>Provides ownership and legal context for the document.</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:all>
	``

```
              <xs:element ref="bel:name" minOccurs="1"/>
              <xs:element ref="bel:description" minOccurs="0"/>
              <xs:element ref="bel:version" minOccurs="0"/>
              <xs:element ref="bel:copyright" minOccurs="0"/>
              <xs:element ref="bel:disclaimer" minOccurs="0"/>
              <xs:element ref="bel:contactInfo" minOccurs="0"/>
              <xs:element ref="bel:authorGroup" minOccurs="0"/>
              <xs:element ref="bel:licenseGroup" minOccurs="0"/>
          </xs:all>
        </xs:complexType>
    </xs:element>
```

Element `bel:authorGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains one or more document authors.
Diagram	
Properties	content: complex
Used by	Element bel:header
Model	bel:author+
Children	bel:author

Instance	`<bel:authorGroup>`
	  `<bel:author>`{1,unbounded}`</bel:author>`
	`</bel:authorGroup>`

Source	`<xs:element name="authorGroup">`
	  `<xs:annotation>`
	    `<xs:documentation>`Contains one or more document authors.`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element ref="bel:author" maxOccurs="unbounded"/>`
	    `</xs:sequence>`
	  `</xs:complexType>`
	`</xs:element>`

Element `bel:licenseGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains one or more document licenses.
Diagram	
Properties	content: complex
Used by	Element bel:header
Model	bel:license+
Children	bel:license

Instance	`<bel:licenseGroup>`
	  `<bel:license>`{1,unbounded}`</bel:license>`
	`</bel:licenseGroup>`

Source	`<xs:element name="licenseGroup">`
	  `<xs:annotation>`
	    `<xs:documentation>`Contains one or more document licenses.`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element ref="bel:license" maxOccurs="unbounded"/>`
	    `</xs:sequence>`
	  `</xs:complexType>`
	`</xs:element>`

Element `bel:annotationDefinition`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Annotations express knowledge about a statement.

Diagram	
Properties	content: complex
Used by	Element bel:annotationDefinitionGroup
Model	bel:description , bel:usage , (bel:listAnnotation | bel:patternAnnotation | bel:uriAnnotation)
Children	bel:description, bel:listAnnotation, bel:patternAnnotation, bel:uriAnnotation, bel:usage

Instance	`<bel:annotationDefinition bel:id="">`
	`  <bel:description>{1,1}</bel:description>`
	`  <bel:usage>{1,1}</bel:usage>`
	`</bel:annotationDefinition>`

Attributes	QName	Type	Fixed	Default	Use
	bel:id	bel:annotationDefinitionIdentifier			required

Source	
| | ```
<xs:element name="annotationDefinition">
  <xs:annotation>
    <xs:documentation>Annotations express knowledge about a statement.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="bel:description"/>
      <xs:element ref="bel:usage"/>
      <xs:choice>
        <xs:element ref="bel:listAnnotation"/>
        <xs:element ref="bel:patternAnnotation"/>
        <xs:element ref="bel:uriAnnotation"/>
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="id" use="required" type="bel:annotationDefinitionIdentifier"/>
  </xs:complexType>
</xs:element>
``` |

Element `bel:annotation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	An annotation applied to a BEL statement, referencing an annotation definition.
Diagram	
Type	extension of xs:string
Properties	content: complex
Used by	Element bel:annotationGroup

Attributes	QName	Type	Fixed	Default	Use
	bel:refID	xs:string			optional

Source	
| | ```
<xs:element name="annotation">
  <xs:annotation>
``` |

```
        <xs:documentation>An annotation applied to a BEL statement, referencing an annotation
definition.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attribute name="refID" type="xs:string"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
```

Element `bel:annotationGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	A grouping of annotations, evidences, and citations.
Diagram	
Properties	content: complex
Used by	Elements bel:statement, bel:statementGroup
Model	(bel:annotation+ | bel:evidence{0,1} | bel:citation{0,1})
Children	bel:annotation, bel:citation, bel:evidence

Instance	`<bel:annotationGroup>`
	`  <bel:annotation bel:refID="">{1,unbounded}</bel:annotation>`
	`  <bel:evidence>{0,1}</bel:evidence>`
	`  <bel:citation bel:type="">{0,1}</bel:citation>`
	`</bel:annotationGroup>`

Source	`<xs:element name="annotationGroup">`
	`  <xs:annotation>`
	`    <xs:documentation>A grouping of annotations, evidences, and citations.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:choice minOccurs="1" maxOccurs="unbounded">`
	`        <xs:element ref="bel:annotation" maxOccurs="unbounded"/>`
	`        <xs:element ref="bel:evidence" maxOccurs="1" minOccurs="0"/>`
	`        <xs:element ref="bel:citation" maxOccurs="1" minOccurs="0"/>`
	`      </xs:choice>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Element `bel:evidence`

Namespace	http://www.belscript.org/schema/xbel
Diagram	
Type	restriction of xs:string
Properties	content: simple
Facets	maxLength 4000
Used by	Element bel:annotationGroup

Source	`<xs:element name="evidence">`
	`  <xs:simpleType>`
	`    <xs:restriction base="xs:string">`
	`      <xs:maxLength value="4000"/>`
	`    </xs:restriction>`
	`  </xs:simpleType>`
	`</xs:element>`

Element `bel:citation`

Namespace	http://www.belscript.org/schema/xbel

Annotations	Specifies information about the knowledge source on which a statement is based.
Diagram	
Properties	content: complex
Used by	Element bel:annotationGroup
Model	bel:reference{0,1} , bel:name , bel:comment{0,1} , bel:date{0,1} , bel:authorGroup{0,1}
Children	bel:authorGroup, bel:comment, bel:date, bel:name, bel:reference

Instance	`<bel:citation bel:type="">`
	`  <bel:reference>{0,1}</bel:reference>`
	`  <bel:name>{1,1}</bel:name>`
	`  <bel:comment>{0,1}</bel:comment>`
	`  <bel:date>{0,1}</bel:date>`
	`  <bel:authorGroup>{0,1}</bel:authorGroup>`
	`</bel:citation>`

Attributes	QName	Type	Fixed	Default	Use
	bel:type	bel:citationType			optional

| Source | `<xs:element name="citation">`
`  <xs:annotation>`
`    <xs:documentation>Specifies information about the knowledge source on which a statement is based.</xs:documentation>`
`  </xs:annotation>`
`  <xs:complexType>`
`    <xs:annotation>`
`      <xs:documentation>The citation annotation type to capture the knowledge source details.</xs:documentation>`
`    </xs:annotation>`
`    <xs:sequence>`
`      <xs:element name="reference" type="xs:string" minOccurs="0" maxOccurs="1"/>`
`      <xs:element name="name" type="xs:string" minOccurs="1" maxOccurs="1"/>`
`      <xs:element name="comment" type="xs:string" minOccurs="0" maxOccurs="1"/>`
`      <xs:element name="date" type="xs:date" minOccurs="0" maxOccurs="1"/>`
`      <xs:element name="authorGroup" minOccurs="0" maxOccurs="1">`
`        <xs:annotation>`
`          <xs:documentation>Contains one or more citation authors.</xs:documentation>`
`        </xs:annotation>`
`        <xs:complexType>`
`          <xs:annotation>`
`            <xs:documentation>The author type for a citation.</xs:documentation>`
`          </xs:annotation>`
`          <xs:sequence>`
`            <xs:element name="author" maxOccurs="unbounded" type="xs:string"/>`
`          </xs:sequence>`
`        </xs:complexType>`
`      </xs:element>`
`    </xs:sequence>`
`    <xs:attribute name="type" type="bel:citationType"/>`
`  </xs:complexType>`
`</xs:element>` |

Element `bel:citation / bel:reference`

Namespace	http://www.belscript.org/schema/xbel
Diagram	
Type	xs:string
Properties	content: simple
	minOccurs: 0

	maxOccurs: 1
Source	`<xs:element name="reference" type="xs:string" minOccurs="0" maxOccurs="1"/>`

Element `bel:citation / bel:name`

Namespace	http://www.belscript.org/schema/xbel
Diagram	name ⊖ ─── 🗒 xs:string
Type	xs:string
Properties	content: simple
	minOccurs: 1
	maxOccurs: 1
Source	`<xs:element name="name" type="xs:string" minOccurs="1" maxOccurs="1"/>`

Element `bel:citation / bel:comment`

Namespace	http://www.belscript.org/schema/xbel
Diagram	comment ⊖ ─── 🗒 xs:string
Type	xs:string
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1
Source	`<xs:element name="comment" type="xs:string" minOccurs="0" maxOccurs="1"/>`

Element `bel:citation / bel:date`

Namespace	http://www.belscript.org/schema/xbel
Diagram	date ⊖ ─── 🗒 xs:date
Type	xs:date
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1
Source	`<xs:element name="date" type="xs:date" minOccurs="0" maxOccurs="1"/>`

Element `bel:citation / bel:authorGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains one or more citation authors.
Diagram	authorGroup ⊖ ─── 🔢 ⊖ ── 1..∞ ── author ⊕
Properties	content: complex
	minOccurs: 0
	maxOccurs: 1
Model	bel:author+
Children	bel:author

Instance	`<bel:authorGroup>`
	`  <bel:author>`{1,unbounded}`</bel:author>`
	`</bel:authorGroup>`

Source	`<xs:element name="authorGroup" minOccurs="0" maxOccurs="1">`
	`  <xs:annotation>`
	`    <xs:documentation>`Contains one or more citation authors.`</xs:documentation>`
	`  </xs:annotation>`

```
        <xs:complexType>
          <xs:annotation>
            <xs:documentation>The author type for a citation.</xs:documentation>
          </xs:annotation>
          <xs:sequence>
            <xs:element name="author" maxOccurs="unbounded" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
```
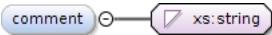
Element `bel:citation / bel:authorGroup / bel:author`

Namespace	http://www.belscript.org/schema/xbel
Diagram	
Type	xs:string
Properties	content: simple
	maxOccurs: unbounded
Source	`<xs:element name="author" maxOccurs="unbounded" type="xs:string"/>`

Element `bel:annotationDefinitionGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains one or more annotation definitions.
Diagram	
Properties	content: complex
Used by	Element bel:document
Model	bel:annotationDefinition+
Children	bel:annotationDefinition

Instance	`<bel:annotationDefinitionGroup>`
	`  <bel:annotationDefinition bel:id="">{1,unbounded}</bel:annotationDefinition>`
	`</bel:annotationDefinitionGroup>`

Source	`<xs:element name="annotationDefinitionGroup">`
	`  <xs:annotation>`
	`    <xs:documentation>Contains one or more annotation definitions.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element ref="bel:annotationDefinition" maxOccurs="unbounded"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Element `bel:namespace`

Namespace	http://www.belscript.org/schema/xbel				
Annotations	Specifies a namespace whose values may be used in statements.				
Diagram					
Properties	content: complex				
Used by	Element bel:namespaceGroup				
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	bel:prefix	bel:prefix			required

QName	Type	Fixed	Default	Use
bel:resourceLocation	bel:resourceLocation			required

Source	

`<xs:element name="namespace">`
  `<xs:annotation>`
    `<xs:documentation>`Specifies a namespace whose values may be used in statements.`</`
`xs:documentation>`
  `</xs:annotation>`
  `<xs:complexType>`
    `<xs:attribute name="prefix" use="required" type="bel:prefix"/>`
    `<xs:attribute name="resourceLocation" use="required" type="bel:resourceLocation"/>`
  `</xs:complexType>`
`</xs:element>`	

Element `bel:namespaceGroup`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Contains any number of namespaces.
Diagram	
Properties	content: complex
Used by	Element bel:document
Model	bel:namespace*
Children	bel:namespace

Instance	`<bel:namespaceGroup bel:defaultResourceLocation="">`
	  `<bel:namespace bel:prefix="" bel:resourceLocation="">`{0,unbounded}`</bel:namespace>`
	`</bel:namespaceGroup>`

Attributes				
QName	**Type**	**Fixed**	**Default**	**Use**
bel:defaultResourceLocation	bel:resourceLocation			optional

Source	

`<xs:element name="namespaceGroup">`
  `<xs:annotation>`
    `<xs:documentation>`Contains any number of namespaces.`</xs:documentation>`
  `</xs:annotation>`
  `<xs:complexType>`
    `<xs:sequence>`
      `<xs:element ref="bel:namespace" minOccurs="0" maxOccurs="unbounded"/>`
    `</xs:sequence>`
    `<xs:attribute name="defaultResourceLocation" type="bel:resourceLocation"/>`
  `</xs:complexType>`
`</xs:element>`	

Element `bel:parameter`

Namespace	http://www.belscript.org/schema/xbel
Annotations	BEL term and function parameter.
Diagram	
Type	extension of bel:parameterValue
Type hierarchy	• xs:string • bel:parameterValue
Properties	content: complex
Used by	Element bel:term

Attributes	QName	Type	Fixed	Default	Use
	bel:ns	xs:string			optional

Source	
| | ```
<xs:element name="parameter">
  <xs:annotation>
    <xs:documentation>BEL term and function parameter.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="bel:parameterValue">
        <xs:attribute name="ns" type="xs:string"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
``` |

Element `bel:term`

Namespace	http://www.belscript.org/schema/xbel
Annotations	BEL terms represent biological entities.
Diagram	
Properties	content: complex
Used by	Elements bel:object, bel:subject, bel:term
Model	bel:parameter | bel:term
Children	bel:parameter, bel:term
| Instance | ```
<bel:term bel:function="">
  <bel:parameter bel:ns="">{1,1}</bel:parameter>
  <bel:term bel:function="">{1,1}</bel:term>
</bel:term>
``` |

Attributes	QName	Type	Fixed	Default	Use
	bel:function	bel:function			required

Source	
| | ```
<xs:element name="term">
  <xs:annotation>
    <xs:documentation>BEL terms represent biological entities.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:choice minOccurs="1" maxOccurs="unbounded">
      <xs:element ref="bel:parameter"/>
      <xs:element ref="bel:term"/>
    </xs:choice>
    <xs:attribute name="function" type="bel:function" use="required"/>
  </xs:complexType>
</xs:element>
``` |

Element `bel:subject`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Defines the subject of a statement.
Diagram	
Properties	content: complex
Used by	Element bel:statement
Model	bel:term
Children	bel:term

| Instance | ```xml
<bel:subject>
  <bel:term bel:function="">{1,1}</bel:term>
</bel:subject>
``` |
|---|---|
| Source | ```xml
<xs:element name="subject">
  <xs:annotation>
    <xs:documentation>Defines the subject of a statement.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="bel:term"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
``` |

Element `bel:object`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Defines the object of a statement.
Diagram	
Properties	content: complex
Used by	Element bel:statement
Model	bel:term | bel:statement
Children	bel:statement, bel:term
| Instance | ```xml
<bel:object>
  <bel:term bel:function="">{1,1}</bel:term>
  <bel:statement bel:relationship="">{1,1}</bel:statement>
</bel:object>
``` |
| Source | ```xml
<xs:element name="object">
  <xs:annotation>
    <xs:documentation>Defines the object of a statement.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:choice>
      <xs:element ref="bel:term"/>
      <xs:element ref="bel:statement"/>
    </xs:choice>
  </xs:complexType>
</xs:element>
``` |

Element `bel:statement`

Namespace	http://www.belscript.org/schema/xbel
Annotations	A statement is a specific assertion of a fact in some context: it is implicitly based on some source of knowledge, implicitly true in at least one specific situation.
Diagram	
Properties	content: complex
Used by	Elements bel:object, bel:statementGroup
Model	bel:comment{0,1} , bel:annotationGroup{0,1} , bel:subject , bel:object{0,1}
Children	bel:annotationGroup, bel:comment, bel:object, bel:subject

| Instance | ```
<bel:statement bel:relationship="">
  <bel:comment>{0,1}</bel:comment>
  <bel:annotationGroup>{0,1}</bel:annotationGroup>
  <bel:subject>{1,1}</bel:subject>
  <bel:object>{0,1}</bel:object>
</bel:statement>
``` | | | | |
|---|---|---|---|---|---|
| Attributes | **QName** | Type | Fixed | Default | Use |
| | **bel:relationship** | bel:relationship | | | optional |
| Source | ```
<xs:element name="statement">
  <xs:annotation>
    <xs:documentation>A statement is a specific assertion of a fact in some context: it is
implicitly based on some source of knowledge, implicitly true in at least one specific
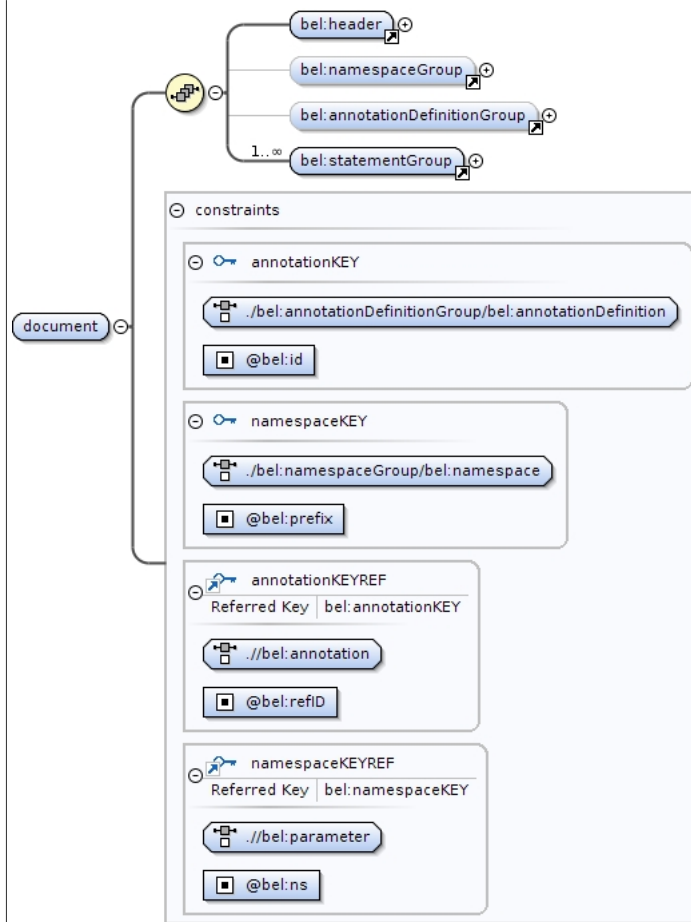situation.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="bel:comment" minOccurs="0"/>
      <xs:element ref="bel:annotationGroup" minOccurs="0"/>
      <xs:element ref="bel:subject"/>
      <xs:element ref="bel:object" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="relationship" type="bel:relationship"/>
  </xs:complexType>
</xs:element>
``` | | | | |

Element `bel:statementGroup`

Namespace	http://www.belscript.org/schema/xbel		
Annotations	`A group of BEL statements.`		
Diagram			
Properties	content: complex		
Used by	Elements		bel:document, bel:statementGroup
Model	bel:name{0,1} , bel:comment{0,1} , bel:annotationGroup{0,1} , bel:statement* , bel:statementGroup*		
Children	bel:annotationGroup, bel:comment, bel:name, bel:statement, bel:statementGroup		
| Instance | ```
<bel:statementGroup>
  <bel:name>{0,1}</bel:name>
  <bel:comment>{0,1}</bel:comment>
  <bel:annotationGroup>{0,1}</bel:annotationGroup>
  <bel:statement bel:relationship="">{0,unbounded}</bel:statement>
  <bel:statementGroup>{0,unbounded}</bel:statementGroup>
</bel:statementGroup>
``` | | |
| Source | ```
<xs:element name="statementGroup">
  <xs:annotation>
    <xs:documentation>A group of BEL statements.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="bel:name" minOccurs="0"/>
      <xs:element ref="bel:comment" minOccurs="0"/>
      <xs:element ref="bel:annotationGroup" minOccurs="0"/>
      <xs:element ref="bel:statement" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element ref="bel:statementGroup" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
``` | | |

Element `bel:document`

Namespace	http://www.belscript.org/schema/xbel

Diagram	
Properties	content: `complex`
Model	bel:header , bel:namespaceGroup{0,1} , bel:annotationDefinitionGroup{0,1} , bel:statementGroup+
Children	bel:annotationDefinitionGroup, bel:header, bel:namespaceGroup, bel:statementGroup

Instance	<pre><bel:document>
	  <bel:header>{1,1}</bel:header>
	  <bel:namespaceGroup bel:defaultResourceLocation="">{0,1}</bel:namespaceGroup>
	  <bel:annotationDefinitionGroup>{0,1}</bel:annotationDefinitionGroup>
	  <bel:statementGroup>{1,unbounded}</bel:statementGroup>
	</bel:document></pre>

Source	<pre><xs:element name="document">
	  <xs:annotation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element ref="bel:header" minOccurs="1"/>
	      <xs:element ref="bel:namespaceGroup" minOccurs="0"/>
	      <xs:element ref="bel:annotationDefinitionGroup" minOccurs="0"/>
	      <xs:element ref="bel:statementGroup" maxOccurs="unbounded"/>
	    </xs:sequence>
	  </xs:complexType>
	  <!-- Unique key identity constraints. -->
	  <!-- Annotation id constraint - all IDs must be unique. -->
	  <xs:key name="annotationKEY">
	    <xs:selector xpath="./bel:annotationDefinitionGroup/bel:annotationDefinition"/>
	    <xs:field xpath="@bel:id"/>
	  </xs:key>
	  <!-- Namespace prefix constraint - all prefixes must be unique. -->
	  <xs:key name="namespaceKEY">
	    <xs:selector xpath="./bel:namespaceGroup/bel:namespace"/>
	    <xs:field xpath="@bel:prefix"/>
	  </xs:key>
	  <!-- Annotation refID constraint - must refer to a valid annotation. -->
	  <xs:keyref name="annotationKEYREF" refer="bel:annotationKEY">
	    <xs:selector xpath=".//bel:annotation"/>
	    <xs:field xpath="@bel:refID"/>
	  </xs:keyref>
	  <!-- Parameter namespace constraint - must refer to a valid namespace. --></pre>

```
    <xs:keyref name="namespaceKEYREF" refer="bel:namespaceKEY">
      <xs:selector xpath=".//bel:parameter"/>
      <xs:field xpath="@bel:ns"/>
    </xs:keyref>
  </xs:element>
</xs:element>
```

Simple Type(s)

Simple Type `bel:relationship`

Namespace	http://www.belscript.org/schema/xbel
Annotations	The intrinsic set of relationship types allowed in statements.
Diagram	
Type	restriction of xs:string

Facets		
	enumeration	increases
	enumeration	decreases
	enumeration	directlyIncreases
	enumeration	directlyDecreases
	enumeration	causesNoChange
	enumeration	positiveCorrelation
	enumeration	negativeCorrelation
	enumeration	translatedTo
	enumeration	transcribedTo
	enumeration	isA
	enumeration	subProcessOf
	enumeration	rateLimitingStepOf
	enumeration	bindsGene
	enumeration	biomarkerFor
	enumeration	prognosticBiomarkerFor
	enumeration	orthologous
	enumeration	analogous
	enumeration	association
	enumeration	hasMembers
	enumeration	hasComponents
	enumeration	hasMember
	enumeration	hasComponent

Used by		
	Attribute	bel:statement/@bel:relationship

Source	

	`<xs:simpleType name="relationship">`
	`  <xs:annotation>`
	`    <xs:documentation>The intrinsic set of relationship types allowed in statements.</`
	`xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`    <xs:enumeration value="increases"/>`
	`    <xs:enumeration value="decreases"/>`
	`    <xs:enumeration value="directlyIncreases"/>`
	`    <xs:enumeration value="directlyDecreases"/>`
	`    <xs:enumeration value="causesNoChange"/>`
	`    <xs:enumeration value="positiveCorrelation"/>`
	`    <xs:enumeration value="negativeCorrelation"/>`
	`    <xs:enumeration value="translatedTo"/>`
	`    <xs:enumeration value="transcribedTo"/>`
	`    <xs:enumeration value="isA"/>`
	`    <xs:enumeration value="subProcessOf"/>`
	`    <xs:enumeration value="rateLimitingStepOf"/>`
	`    <xs:enumeration value="bindsGene"/>`
	`    <xs:enumeration value="biomarkerFor"/>`
	`    <xs:enumeration value="prognosticBiomarkerFor"/>`
	`    <xs:enumeration value="orthologous"/>`
	`    <xs:enumeration value="analogous"/>`
	`    <xs:enumeration value="association"/>`

```
      <xs:enumeration value="hasMembers"/>
      <xs:enumeration value="hasComponents"/>
      <xs:enumeration value="hasMember"/>
      <xs:enumeration value="hasComponent"/>
    </xs:restriction>
</xs:simpleType>
```

Simple Type `bel:function`

Namespace	http://www.belscript.org/schema/xbel
Annotations	`The intrinsic set of functions allowed in BEL term expressions.`
Diagram	`function` ⊖— `xs:string`
Type	restriction of xs:string

Facets			
	enumeration	`proteinAbundance`	`The protein abundance BEL function.`
	enumeration	`proteinModification`	`The protein modification BEL function for a protein abundance.`
	enumeration	`substitution`	`The substitution BEL function for a protein abundance.`
	enumeration	`truncation`	`The truncation BEL function for a protein abundance.`
	enumeration	`rnaAbundance`	`The rna abundance BEL function.`
	enumeration	`biologicalAbundance`	`The biological abundance BEL function.`
	enumeration	`microRNAAbundance`	`The micro rna abundance BEL function.`
	enumeration	`geneAbundance`	`The gene abundance BEL function.`
	enumeration	`moleculeAbundance`	`The molecule abundance BEL function.`
	enumeration	`biologicalProcess`	`The biological process BEL function.`
	enumeration	`pathology`	`The pathology BEL function.`
	enumeration	`complexAbundance`	`The complex abundance BEL function.`
	enumeration	`translocation`	`The translocation BEL function.`
	enumeration	`cellSecretion`	`The cell secretion BEL function.`
	enumeration	`cellSurfaceExpression`	`The cell surface expression BEL function.`
	enumeration	`reaction`	`The reaction BEL function.`
	enumeration	`compositeAbundance`	`The composite abundance BEL function.`
	enumeration	`fusionProteinAbundance`	`The fusion protein abundance BEL function.`
	enumeration	`reactants`	`The reactants BEL function.`
	enumeration	`products`	`The products BEL function.`
	enumeration	`degradation`	`The degradation BEL function.`
	enumeration	`molecularActivity`	`The molecular activity BEL function.`
	enumeration	`catalyticActivity`	`The catalytic activity BEL function.`
	enumeration	`kinaseActivity`	`The kinase activity BEL function.`
	enumeration	`phosphataseActivity`	`The phosphatase activity BEL function.`
	enumeration	`oxidoreductaseActivity`	`The oxidoreductase activity BEL function.`
	enumeration	`peptidaseActivity`	`The peptidase activity BEL function.`
	enumeration	`ribosylationActivity`	`The ribosylation activity BEL function.`
	enumeration	`transcriptionalActivity`	`The transcriptional activity BEL function.`
	enumeration	`transportActivity`	`The transport activity BEL function.`
	enumeration	`gtpBoundActivity`	`The gtp-bound activity BEL function.`
	enumeration	`chaperoneActivity`	`The chaperone activity BEL function.`
	enumeration	`list`	`The list BEL function.`

Used by		
	Attributes	@bel:function, bel:term/@bel:function

Source	
	`<xs:simpleType name="function">`

```
<xs:simpleType name="function">
  <xs:annotation>
    <xs:documentation>The intrinsic set of functions allowed in BEL term expressions.</xs:documentation>
  </xs:annotation>
```

```xml
  <xs:restriction base="xs:string">
    <xs:enumeration value="proteinAbundance">
      <xs:annotation>
        <xs:documentation>The protein abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="proteinModification">
      <xs:annotation>
        <xs:documentation>The protein modification BEL function for a protein abundance.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="substitution">
      <xs:annotation>
        <xs:documentation>The substitution BEL function for a protein abundance.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="truncation">
      <xs:annotation>
        <xs:documentation>The truncation BEL function for a protein abundance.</
xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="rnaAbundance">
      <xs:annotation>
        <xs:documentation>The rna abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="biologicalAbundance">
      <xs:annotation>
        <xs:documentation>The biological abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="microRNAAbundance">
      <xs:annotation>
        <xs:documentation>The micro rna abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="geneAbundance">
      <xs:annotation>
        <xs:documentation>The gene abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="moleculeAbundance">
      <xs:annotation>
        <xs:documentation>The molecule abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="biologicalProcess">
      <xs:annotation>
        <xs:documentation>The biological process BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="pathology">
      <xs:annotation>
        <xs:documentation>The pathology BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="complexAbundance">
      <xs:annotation>
        <xs:documentation>The complex abundance BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="translocation">
      <xs:annotation>
        <xs:documentation>The translocation BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="cellSecretion">
      <xs:annotation>
        <xs:documentation>The cell secretion BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="cellSurfaceExpression">
      <xs:annotation>
        <xs:documentation>The cell surface expression BEL function.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="reaction">
      <xs:annotation>
        <xs:documentation>The reaction BEL function.</xs:documentation>
      </xs:annotation>
```

```
    </xs:enumeration>
<xs:enumeration value="compositeAbundance">
  <xs:annotation>
    <xs:documentation>The composite abundance BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="fusionProteinAbundance">
  <xs:annotation>
    <xs:documentation>The fusion protein abundance BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="reactants">
  <xs:annotation>
    <xs:documentation>The reactants BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="products">
  <xs:annotation>
    <xs:documentation>The products BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="degradation">
  <xs:annotation>
    <xs:documentation>The degradation BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="molecularActivity">
  <xs:annotation>
    <xs:documentation>The molecular activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="catalyticActivity">
  <xs:annotation>
    <xs:documentation>The catalytic activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="kinaseActivity">
  <xs:annotation>
    <xs:documentation>The kinase activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="phosphataseActivity">
  <xs:annotation>
    <xs:documentation>The phosphatase activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="oxidoreductaseActivity">
  <xs:annotation>
    <xs:documentation>The oxidoreductase activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="peptidaseActivity">
  <xs:annotation>
    <xs:documentation>The peptidase activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="ribosylationActivity">
  <xs:annotation>
    <xs:documentation>The ribosylation activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="transcriptionalActivity">
  <xs:annotation>
    <xs:documentation>The transcriptional activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="transportActivity">
  <xs:annotation>
    <xs:documentation>The transport activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="gtpBoundActivity">
  <xs:annotation>
    <xs:documentation>The gtp-bound activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
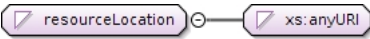<xs:enumeration value="chaperoneActivity">
  <xs:annotation>
    <xs:documentation>The chaperone activity BEL function.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="list">
  <xs:annotation>
```

```
          <xs:documentation>The list BEL function.</xs:documentation>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
```

Simple Type `bel:annotationDefinitionIdentifier`

Namespace	http://www.belscript.org/schema/xbel
Annotations	A unique identifier referencing an annotation definition.
Diagram	annotationDefinitionIdentifier ⊖— xs:NCName
Type	xs:NCName
Used by	Attribute bel:annotationDefinition/@bel:id

Source	`<xs:simpleType name="annotationDefinitionIdentifier">`
	`  <xs:annotation>`
	`    <xs:documentation>A unique identifier referencing an annotation definition.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:NCName"/>`
	`</xs:simpleType>`

Simple Type `bel:resourceLocation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	the URI of the resource defining a namespace.
Diagram	resourceLocation ⊖— xs:anyURI
Type	xs:anyURI
Used by	Attributes @bel:namespace, bel:namespace/@bel:resourceLocation, bel:namespaceGroup/@bel:defaultResourceLocation

Source	`<xs:simpleType name="resourceLocation">`
	`  <xs:annotation>`
	`    <xs:documentation>the URI of the resource defining a namespace.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:anyURI"/>`
	`</xs:simpleType>`

Simple Type `bel:prefix`
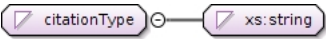
Namespace	http://www.belscript.org/schema/xbel
Annotations	Prefix uniquely identifying a namespace within the document.
Diagram	prefix ⊖— xs:NCName
Type	xs:NCName
Used by	Attribute bel:namespace/@bel:prefix

Source	`<xs:simpleType name="prefix">`
	`  <xs:annotation>`
	`    <xs:documentation>Prefix uniquely identifying a namespace within the document.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:NCName"/>`
	`</xs:simpleType>`

Simple Type `bel:parameterValue`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Namespace values.
Diagram	parameterValue ⊖— xs:string
Type	restriction of xs:string
Facets	minLength 1

Used by	Element	bel:parameter

Source	`<xs:simpleType name="parameterValue">`
	  `<xs:annotation>`
	    `<xs:documentation>Namespace values.</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:restriction base="xs:string">`
	    `<xs:minLength value="1"/>`
	  `</xs:restriction>`
	`</xs:simpleType>`

Simple Type `bel:citationType`

Namespace	http://www.belscript.org/schema/xbel
Annotations	`Citation type (e.g., book, journal, online resource, other, pubmed)`
Diagram	
Type	restriction of xs:string

Facets	enumeration	`Book`
	enumeration	`Journal`
	enumeration	`Online Resource`
	enumeration	`Other`
	enumeration	`PubMed`

Used by	Attribute	bel:citation/@bel:type

Source	`<xs:simpleType name="citationType">`
	  `<xs:annotation>`
	    `<xs:documentation>Citation type (e.g., book, journal, online resource, other,`
	`pubmed)</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:restriction base="xs:string">`
	    `<xs:enumeration value="Book"/>`
	    `<xs:enumeration value="Journal"/>`
	    `<xs:enumeration value="Online Resource"/>`
	    `<xs:enumeration value="Other"/>`
	    `<xs:enumeration value="PubMed"/>`
	  `</xs:restriction>`
	`</xs:simpleType>`

Attribute(s)

Attribute `@bel:function`

Namespace	http://www.belscript.org/schema/xbel
Annotations	`Defines a function used within a BEL term expression.`
Type	bel:function
Properties	content:	simple

Facets	enumeration	`proteinAbundance`	`The protein abundance BEL function.`
	enumeration	`proteinModification`	`The protein modification BEL function for a protein abundance.`
	enumeration	`substitution`	`The substitution BEL function for a protein abundance.`
	enumeration	`truncation`	`The truncation BEL function for a protein abundance.`
	enumeration	`rnaAbundance`	`The rna abundance BEL function.`
	enumeration	`biologicalAbundance`	`The biological abundance BEL function.`
	enumeration	`microRNAAbundance`	`The micro rna abundance BEL function.`
	enumeration	`geneAbundance`	`The gene abundance BEL function.`
	enumeration	`moleculeAbundance`	`The molecule abundance BEL function.`
	enumeration	`biologicalProcess`	`The biological process BEL function.`
	enumeration	`pathology`	`The pathology BEL function.`
	enumeration	`complexAbundance`	`The complex abundance BEL function.`

	enumeration	translocation	The translocation BEL function.
	enumeration	cellSecretion	The cell secretion BEL function.
	enumeration	cellSurfaceExpression	The cell surface expression BEL function.
	enumeration	reaction	The reaction BEL function.
	enumeration	compositeAbundance	The composite abundance BEL function.
	enumeration	fusionProteinAbundance	The fusion protein abundance BEL function.
	enumeration	reactants	The reactants BEL function.
	enumeration	products	The products BEL function.
	enumeration	degradation	The degradation BEL function.
	enumeration	molecularActivity	The molecular activity BEL function.
	enumeration	catalyticActivity	The catalytic activity BEL function.
	enumeration	kinaseActivity	The kinase activity BEL function.
	enumeration	phosphataseActivity	The phosphatase activity BEL function.
	enumeration	oxidoreductaseActivity	The oxidoreductase activity BEL function.
	enumeration	peptidaseActivity	The peptidase activity BEL function.
	enumeration	ribosylationActivity	The ribosylation activity BEL function.
	enumeration	transcriptionalActivity	The transcriptional activity BEL function.
	enumeration	transportActivity	The transport activity BEL function.
	enumeration	gtpBoundActivity	The gtp-bound activity BEL function.
	enumeration	chaperoneActivity	The chaperone activity BEL function.
	enumeration	list	The list BEL function.

Source	`<xs:attribute name="function" type="bel:function">`
	  `<xs:annotation>`
	    `<xs:documentation>`Defines a function used within a BEL term expression.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`		

Attribute `@bel:defaultResourceLocation`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Resource location of the default namespace used by the document.
Type	xs:anyURI
Properties	content: simple

Source	`<xs:attribute name="defaultResourceLocation" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>`Resource location of the default namespace used by the document.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Attribute `@bel:namespace`

Namespace	http://www.belscript.org/schema/xbel
Annotations	Associated namespace.
Type	bel:resourceLocation
Properties	content: simple

Source	`<xs:attribute name="namespace" type="bel:resourceLocation">`
	  `<xs:annotation>`
	    `<xs:documentation>`Associated namespace.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Attribute `bel:annotationDefinition / @bel:id`

Namespace	http://www.belscript.org/schema/xbel
Type	bel:annotationDefinitionIdentifier

Properties	use:	required
Used by	Element	bel:annotationDefinition
Source	`<xs:attribute name="id" use="required" type="bel:annotationDefinitionIdentifier"/>`	

Attribute `bel:annotation / @bel:refID`

Namespace	http://www.belscript.org/schema/xbel	
Type	xs:string	
Properties	content:	simple
Used by	Element	bel:annotation
Source	`<xs:attribute name="refID" type="xs:string"/>`	

Attribute `bel:citation / @bel:type`

Namespace	http://www.belscript.org/schema/xbel	
Type	bel:citationType	
Properties	content:	simple
Facets	enumeration	Book
	enumeration	Journal
	enumeration	Online Resource
	enumeration	Other
	enumeration	PubMed
Used by	Element	bel:citation
Source	`<xs:attribute name="type" type="bel:citationType"/>`	

Attribute `bel:namespace / @bel:prefix`

Namespace	http://www.belscript.org/schema/xbel	
Type	bel:prefix	
Properties	use:	required
Used by	Element	bel:namespace
Source	`<xs:attribute name="prefix" use="required" type="bel:prefix"/>`	

Attribute `bel:namespace / @bel:resourceLocation`

Namespace	http://www.belscript.org/schema/xbel	
Type	bel:resourceLocation	
Properties	use:	required
Used by	Element	bel:namespace
Source	`<xs:attribute name="resourceLocation" use="required" type="bel:resourceLocation"/>`	

Attribute `bel:namespaceGroup / @bel:defaultResourceLocation`

Namespace	http://www.belscript.org/schema/xbel	
Type	bel:resourceLocation	
Properties	content:	simple
Used by	Element	bel:namespaceGroup
Source	`<xs:attribute name="defaultResourceLocation" type="bel:resourceLocation"/>`	

Attribute `bel:parameter / @bel:ns`

Namespace	http://www.belscript.org/schema/xbel
Type	xs:string

Properties	content:	simple	
Used by	Element	bel:parameter	
Source	`<xs:attribute name="ns" type="xs:string"/>`		

Attribute `bel:term` / `@bel:function`

Namespace	http://www.belscript.org/schema/xbel		
Type	bel:function		
Properties	use:	required	
Facets	enumeration	proteinAbundance	The protein abundance BEL function.
	enumeration	proteinModification	The protein modification BEL function for a protein abundance.
	enumeration	substitution	The substitution BEL function for a protein abundance.
	enumeration	truncation	The truncation BEL function for a protein abundance.
	enumeration	rnaAbundance	The rna abundance BEL function.
	enumeration	biologicalAbundance	The biological abundance BEL function.
	enumeration	microRNAAbundance	The micro rna abundance BEL function.
	enumeration	geneAbundance	The gene abundance BEL function.
	enumeration	moleculeAbundance	The molecule abundance BEL function.
	enumeration	biologicalProcess	The biological process BEL function.
	enumeration	pathology	The pathology BEL function.
	enumeration	complexAbundance	The complex abundance BEL function.
	enumeration	translocation	The translocation BEL function.
	enumeration	cellSecretion	The cell secretion BEL function.
	enumeration	cellSurfaceExpression	The cell surface expression BEL function.
	enumeration	reaction	The reaction BEL function.
	enumeration	compositeAbundance	The composite abundance BEL function.
	enumeration	fusionProteinAbundance	The fusion protein abundance BEL function.
	enumeration	reactants	The reactants BEL function.
	enumeration	products	The products BEL function.
	enumeration	degradation	The degradation BEL function.
	enumeration	molecularActivity	The molecular activity BEL function.
	enumeration	catalyticActivity	The catalytic activity BEL function.
	enumeration	kinaseActivity	The kinase activity BEL function.
	enumeration	phosphataseActivity	The phosphatase activity BEL function.
	enumeration	oxidoreductaseActivity	The oxidoreductase activity BEL function.
	enumeration	peptidaseActivity	The peptidase activity BEL function.
	enumeration	ribosylationActivity	The ribosylation activity BEL function.
	enumeration	transcriptionalActivity	The transcriptional activity BEL function.
	enumeration	transportActivity	The transport activity BEL function.
	enumeration	gtpBoundActivity	The gtp-bound activity BEL function.
	enumeration	chaperoneActivity	The chaperone activity BEL function.
	enumeration	list	The list BEL function.
Used by	Element	bel:term	
Source	`<xs:attribute name="function" type="bel:function" use="required"/>`		

Attribute `bel:statement` / `@bel:relationship`

Namespace	http://www.belscript.org/schema/xbel

Type	bel:relationship	
Properties	content:	simple
Facets	enumeration	increases
	enumeration	decreases
	enumeration	directlyIncreases
	enumeration	directlyDecreases
	enumeration	causesNoChange
	enumeration	positiveCorrelation
	enumeration	negativeCorrelation
	enumeration	translatedTo
	enumeration	transcribedTo
	enumeration	isA
	enumeration	subProcessOf
	enumeration	rateLimitingStepOf
	enumeration	bindsGene
	enumeration	biomarkerFor
	enumeration	prognosticBiomarkerFor
	enumeration	orthologous
	enumeration	analogous
	enumeration	association
	enumeration	hasMembers
	enumeration	hasComponents
	enumeration	hasMember
	enumeration	hasComponent
Used by	Element	bel:statement
Source	`<xs:attribute name="relationship" type="bel:relationship"/>`	