Synopsis

MRSAB.RRF

Statistics and sample data

Terms and term types

Attributes

Relationships

Semantic Types

Source Overlap

Representation

Source Representation

UMLS Representation

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Source-Provided File Details

General Notes/Comments:

NCI Thesaurus (NCIt) is a widely recognized standard for biomedical coding and reference. It covers vocabulary for clinical care, translational and basic research, public information and administrative activities and is used by a broad variety of public and private partners both nationally and internationally.

Data is supplied in a single OWL formatted file.

Summary of Changes

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(1) In the previous release (NCI2009\_04D), the data format was OWL By Name which meant that the tags used to identify the fields were strings (e.g., DEFINITION, FULL\_SYN, PREFERRED\_NAME, etc.). For the current release, the format is OWL By Code. The identifying tags specify a code rather than a string (e.g., P106 represents Semantic Type, P107 represents Display Name, etc.).

(2) New attributes added:

EXTENSIBLE\_LIST

MIRBASE\_ID

NEOPLASTIC\_STATUS

(3) New relationship attribute (RELA):

has\_cdrh\_parent/parent\_is\_cdrh

Summary of Source-Provided Files

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Documentation and Reference

|  |  |
| --- | --- |
| File Name | Description |
| NCI2010\_02D.cfg | Configuration file |
| ThesaurusInferred.owl | Complete source data in an OWL formatted file |

Source-Provided File Details

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Note:

Certain data elements may not be processed because they contain redundant data.

MRREL.CUI\* is populated by the Metathesuarus CUI of the given code unless otherwise stated.

Properties that start with '<A' are associations and '<R' are roles. Both are treated as relationship attributes (RELA). Properties starting with a '<P' are attribute names.

|  |  |  |
| --- | --- | --- |
| Tag/Element (examples) | Description | Representation |
| <owl:Class rdf:about="#C...> | Concept code | MRCONSO.CODE MRCONSO.SCUI |
| <rdfs:label rdf:datatype="http://www.w3.org.... </rdfs:label> | Preferred Term | Not processed. Redundant information. Preferred name property (P108) used instead. |
| <rdfs:subClassOf rdf:resource="#C28533"/> | Parent concept | MRREL.CUI\* |
| <rdfs:subClassOf>  <owl:Restriction>  <owl:onPropertyrdf:resource="#R.."/>  <owl:someValuesFromrdf:resource="#C.."/>  </owl:Restriction>  </rdfs:subClassOf> | Specifies the relationship attribute and code of the 2nd concept to the first concept. | MRREL.CUI\*  MRREL.RELA |
| <A1 rdf:resource="http://...owl#C..."/> | Role\_Has\_Domain | MRREL.CUI\*  MRREL.RELA =  role\_has\_domain |
| <A2 rdf:resource="http://...owl#C..."/> | Role\_Has\_Range | MRREL.CUI\*  MRREL.RELA = role\_has\_range |
| <A3 rdf:resource="http://...owl#C..."/> | Role\_Has\_Parent | MRREL.CUI  MRREL.RELA = role\_has\_parent |
| <A4 rdf:resource="http://...owl#C..."/> | Qualifier\_Applies\_To | MRREL.CUI\*  MRREL.RELA = qualifier\_applies\_to |
| <A5 rdf:resource="http://...owl#C..."/> | Has\_Salt\_Form | MRREL.CUI\*  MRREL.RELA = has\_salt\_form |
| <A6 rdf:resource="http://...owl#C..."/> | Has\_Free\_Acid\_Or\_Base\_Fo | MRREL.CUI\*  MRREL.RELA = has\_free\_acid\_base\_form |
| <A7 rdf:resource="http://...owl#C..."/> | Has\_Target | MRREL.CUI\*  MRREL.RELA = has\_target |
| <A8 rdf:resource="http://...owl#C..."/> | Concept\_In\_Subset | MRREL.CUI\*  MRREL.RELA = concept\_in\_subset |
| <A9 rdf:resource="http://...owl#C..."/> | Is\_Related\_To\_Endogenous\_Product | MRREL.CUI\*  MRREL.RELA = is\_related\_to\_endogenous\_product |
| <A10 rdf:resource="http://...owl#C..."/> | Has\_CDRH\_Parent | MRREL.CUI\*  MRREL.RELA = has\_cdrh\_parent |
|  |  |  |
| <P90  rdf:datatype="http://www.w3.org/1999/02/22-rdf-syntax-ns#XMLLiteral"><ncicp:ComplexTerm  xmlns:ncicp="http://ncicb.nci.nih.gov/xml/owl/EVS/ComplexProperties.xsd#"><ncicp:term-name>...</ncicp:term-name><ncicp:term-group>...</ncicp:term-group><ncicp:term-source>...</ncicp:term-source></ncicp:ComplextTerm></P90> | FULL\_SYN.  Includes term name, term type, term source, and source code. | MRCONSO.STR = term name  MRCONSO.TTY = term type  MRCONSO.SAB = term source  MRSAT.ATN = ORIG\_CODE if source code field is populated and SAB is not NCI.  NCI/PTs are not processed and NCI/CNUs are  assigned to the ATN = CNU. |
| <P92 rdf:datatype="http://www... </P92> | Subsource | MRSAT.ATN =  SUBSOURCE |
| <P93 rdf:datatype="http://www... </P93> | SWISS\_PROT | MRSAT.ATN = SWISS\_PROT |
| <P96 rdf:datatype="http://www... </P96> | Gene\_Encodes\_Product | MRSAT.ATN = GENE\_ENCODES\_PRODUCT |
| <P97 rdf:datatype="http://www.w3.org/1999/02/22-rdf-syntax-ns#XMLLiteral" >&lt;ncicp:ComplexDefinition xmlns:ncicp="http://ncicb.nci.nih.gov/xml/owl/EVS/ComplexProperties.xsd#">&lt;ncicp:def-definition> … &lt;/ncicp:def-definition>&lt;ncicp:defsource> … &lt;/ncicp:def-source>&lt;/ncicp:ComplexDefinition></P97> | DEFINITION. Includes definition and source of definition. | MRDEF.SAB = source  MRDEF.DEF =  definition if source=NCI, an NCI subsource, or an NCI local source. |
| <P98 rdf:datatype="http://www...  </P98> | DesignNote | MRSAT.ATN = DESIGN\_NOTE |
| <P100 rdf:datatype="http://www... </P100> | OMIM\_Number | MRSAT.ATN = OMIM\_NUMBER |
| <P101 rdf:datatype="http://www... </P101> | Homologous\_Gene | MRSAT.ATN = HOMOLOGOUS\_GENE |
| <P102 rdf:datatype="http://www... </P102> | GenBank\_Accession\_Number | MRSAT.ATN = GENBANK\_ACCESSION\_NUMBER |
| <P106 rdf:datatype="http://www... </P106> | Semantic\_Type | MRSTY.STY |
| <P107 rdf:datatype="http://www... </P107> | Display\_Name | Not processed |
| <P108 rdf:datatype="http://www... </P108> | Preferred\_Name | MRCONSO.STR |
| <P160 rdf:datatype="http://www... </P160> | Maps\_To\_LASH | Not processed |
| <P170 rdf:datatype="http://www... </P170> | Mitelman\_Code | MRSAT.ATN = MITELMAN\_CODE |
| <P171 rdf:datatype="http://www... </P171> | PubMedID\_Primary\_Reference | MRSAT.ATN = PUBMEDID\_PRIMARY\_REFERENCE |
| <P175 rdf:datatype="http://www... </P175> | NSC\_Code | MRSAT.ATN = NSC\_CODE |
| <P181 rdf:datatype="http://www... </P181> | Related\_MedDRA\_Code | MRSAT.ATN = RELATED\_MEDDRA\_CODE |
| <P207 rdf:datatype="http://www... </P207> | UMLS\_CUI | Not  processed |
| <P208 rdf:datatype="http://www... </P208> | NCI\_META\_CUI | Not processed |
| <P209 rdf:datatype="http://www... </P209> | Related\_Lash\_Concept | MRSAT.ATN = RELATED\_LASH\_CONCEPT |
| <P210 rdf:datatype="http://www... </P210> | CAS\_Registry | MRSAT.ATN = CAS\_REGISTRY |
| <P211 rdf:datatype="http://www.w3.org/1999/02/22-rdf-syntax-ns#XMLLiteral" >&lt;ncicp:ComplexGOAnnotation xmlns:ncicp="http://ncicb.nci.nih.gov/xml/owl/EVS/ComplexProperties.xsd#">&lt;ncicp:go-term> … &lt;/ncicp:go-term>&lt;ncicp:go-id> … &lt;/ncicp:go-id>&lt;ncicp:go-evi>TAS&lt;/ncicp:go-evi>&lt;ncicp:source-date>29-SEP-2003&lt;/ncicp:source-date>&lt;ncicp:go-source>CGAP&lt;/ncicp:go-source>&lt;/ncicp:ComplexGOAnnotation></P211> | GO\_Annotation.  Includes GO term, id, source, evidence, and source date. | MRSAT.ATN = GO\_ANNOTATION |
| <P215 rdf:datatype="http://www... </P215> | KEGG\_ID | MRSAT.ATN =  KEGG\_ID |
| <P216 rdf:datatype="http://www... </P216> | BioCarta\_ID | MRSAT.ATN = BIOCARTA\_ID |
| <P300 rdf:datatype="http://www... </P300> | NDFRT\_Name | Not processed |
| <P301 rdf:datatype="http://www... </P301> | NDFRT\_Code | Not processed |
| <P302 rdf:datatype="http://www... </P302> | Accepted\_Therapeutic\_Use\_For | MRSAT.ATN =  ACCEPTED\_THERAPEUTIC\_USE\_FOR |
| <P303 rdf:datatype="http://www... </P303> | In\_Clinical\_Trial\_For | Not processed |
| <P310 rdf:datatype="http://www... </P310> | Concept\_Status | Not processed |
| <P315 rdf:datatype="http://www... </P315> | SNP\_ID | Not processed |
| <P316 rdf:datatype="http://www... </P316> | Relative\_Enzyme  Activity | Not processed |
| <P317 rdf:datatype="http://www... </P317> | FDA\_Table | MRSAT.ATN =  FDA\_TABLE |
| <P319 rdf:datatype="http://www... </P319> | FDA\_UNII\_Code | MRSAT.ATN = FDA\_UNII\_CODE |
| <P321 rdf:datatype="http://www... </P321> | EntrezGene\_ID | MRSAT.ATN = ENTREZGENE\_ID |
| <P322 rdf:datatype="http://www... </P322> | Contributing\_Source | MRSAT.ATN = CONTRIBUTING\_SOURCE |
| <P325 rdf:datatype="http://www.w3.org/1999/02/22-rdf-syntax-ns#XMLLiteral" >&lt;ncicp:ComplexDefinition xmlns:ncicp="http://ncicb.nci.nih.gov/xml/owl/EVS/ComplexProperties.xsd#">&lt;ncicp:def-definition>A substance that is being studied as a treatment for cancer. It belongs to the family of drugs called sulfonamides.&lt;/ncicp:def-definition>&lt;ncicp:def-source>NCI-GLOSS&lt;/ncicp:def-source>&lt;/ncicp:ComplexDefinition></P325> | ALT\_DEFINITION.  Includes definition and source of definition. | MRDEF.SAB = source  MRDEF.DEF = definition if source=NCI, an NCI subsource, or an NCI local source. |
| <P329 rdf:datatype="http://www... </P329> | PDQ\_Open\_Trial\_Search\_ID | MRSAT.ATN = PDQ\_OPEN\_TRIAL\_SEARCH\_ID |
| <P330 rdf:datatype="http://www... </P330> | PDQ\_Closed\_Trial\_Search\_ID | MRSAT.ATN = PDQ\_CLOSED\_TRIAL\_SEARCH\_ID |
| <P331 rdf:datatype="http://www... </P331> | NCBI\_Taxon\_ID | MRSAT.ATN = NCBI\_TAXON\_ID |
| <P332 rdf:datatype="http://www... </P332> | MGI\_Accession\_ID | MRSAT.ATN = MGI\_ACCESSION\_ID |
| <P333 rdf:datatype="http://www... </P333> | Use\_For | MRSAT.ATN = USE\_FOR |
| <P334 rdf:datatype="http://www... </P334> | ICD-O-3\_Code | MRSAT.ATN = ICD-O-3\_CODE |
| <P350 rdf:datatype="http://www... </P350> | Chemical\_Formula | MRSAT.ATN = CHEMICAL\_FORMULA |
| <P351 rdf:datatype="http://www... </P351> | US\_Recommended\_Intake | MRSAT.ATN = US\_RECOMMENDED\_INTAKE |
| <P352 rdf:datatype="http://www... </P352> | Tolerable\_Level | MRSAT.ATN = TOLERABLE\_LEVEL |
| <P353 rdf:datatype="http://www... </P353> | INFOODS | MRSAT.ATN =  INFOODS |
| <P354 rdf:datatype="http://www... </P354> | USDA\_ID | MRSAT.ATN =  USDA\_ID |
| <P355 rdf:datatype="http://www... </P355> | Unit | MRSAT.ATN = UNIT |
| <P356 rdf:datatype="http://www... </P356> | Essential\_Amino\_Acid | MRSAT.ATN = ESSENTIAL\_AMINO\_ACID |
| <P357 rdf:datatype="http://www... </P357> | Essential\_Fatty\_Acid | MRSAT.ATN = ESSENTIAL\_FATTY\_ACID |
| <P358 rdf:datatype="http://www... </P358> | Nutrient | MRSAT.ATN =  NUTRIENT |
| <P359 rdf:datatype="http://www... </P359> | Micronutrient | MRSAT.ATN = MICRONUTRIENT |
| <P360 rdf:datatype="http://www... </P360> | Macronutrient | MRSAT.ATN = MACRONUTRIENT |
| <P361 rdf:datatype="http://www... </P361> | Extensible\_List | MRSAT.ATN = EXTENSIBLE\_LIST |
| <P362 rdf:datatype="http://www... </P362> | miRBase\_ID | MRSAT.ATN = MIRBASE\_ID |
| <P363 rdf:datatype="http://www... </P363> | Neoplastic\_Status | MRSAT.ATN = NEOPLASTIC\_STATUS |
| <P366 rdf:datatype="http://www... </P366> | Legacy\_Concept\_Name | Not processed |
|  |  |  |
| <owl:ObjectProperty rdf:about="#R23"> | EO\_Disease\_Has\_Associated\_Cell\_Type | MRREL.RELA =  eo\_disease\_has\_associated\_cell\_type |
| <owl:ObjectProperty rdf:about="#R24”> | EO\_Disease\_Maps\_To\_Human\_Disease | MRREL.RELA = eo\_disease\_maps\_to\_human\_disease |
| <owl:ObjectProperty rdf:about="#R25”> | EO\_Disease\_Has\_Associated\_EO\_Anatomy | MRREL.RELA =  eo\_disease\_has\_associated\_eo\_anatomy |
| <owl:ObjectProperty rdf:about="#R26”> | EO\_Disease\_Has\_Property\_Or\_Attribute | MRREL.RELA =  eo\_disease\_has\_property\_or\_attribute |
| <owl:ObjectProperty rdf:about="#R27”> | Conceptual\_Part\_Of | MRREL.RELA= conceptual\_part\_of |
| <owl:ObjectProperty rdf:about="#R28”> | Biological\_Process\_Has\_Initiator\_Process | MRREL.RELA = biological\_process\_has\_initiator\_process |
| <owl:ObjectProperty rdf:about="#R29”> | Biological\_Process\_Has\_Result\_Chemical\_Or\_Drug | MRREL.RELA = biological\_process\_has\_result\_chemical\_or\_drug |
| <owl:ObjectProperty rdf:about="#R30”> | Biological\_Process\_Has\_Associated\_Location | MRREL.RELA = biological\_process\_has\_associated\_location |
| <owl:ObjectProperty rdf:about="#R31”> | Biological\_Process\_Has\_Result\_Anatomy | MRREL.RELA = biological\_process\_has\_result\_anatomy |
| <owl:ObjectProperty rdf:about="#R32”> | Biological\_Process\_Has\_Initiator\_Chemical\_Or\_Drug | MRREL.RELA = biological\_process\_has\_initiator\_chemical\_or\_drug |
| <owl:ObjectProperty rdf:about="#R34”> | Biological\_Process\_Has\_Result\_Biological\_Process | MRREL.RELA = biological\_process\_has\_result\_biological\_process |
| <owl:ObjectProperty rdf:about="#R35”> | Biological\_Process\_Is\_Part\_Of\_Process | MRREL.RELA = biological\_process\_is\_part\_of\_process |
| <owl:ObjectProperty rdf:about="#R36”> | Gene\_Is\_Biomarker\_Type | MRREL.RELA = gene\_is\_biomarker\_type |
| <owl:ObjectProperty rdf:about="#R37”> | Gene\_Plays\_Role\_In\_Process | MRREL.RELA = gene\_plays\_role\_in\_process |
| <owl:ObjectProperty rdf:about="#R38”> | Gene\_Associated\_With\_Disease | MRREL.RELA = gene\_associated\_with\_disease |
| <owl:ObjectProperty rdf:about="#R39”> | Gene\_Is\_Biomarker\_Of | MRREL.RELA = gene\_is\_biomarker\_of |
| <owl:ObjectProperty rdf:about="#R40”> | Gene\_In\_Chromosomal\_Location | MRREL.RELA = gene\_in\_chromosomal\_location |
| <owl:ObjectProperty rdf:about="#R41”> | Gene\_Found\_In\_Organism | MRREL.RELA = gene\_found\_in\_organism |
| <owl:ObjectProperty rdf:about="#R42”> | Gene\_Product\_Is\_Biomarker\_Type | MRREL.RELA = gene\_product\_is\_biomarker\_type |
| <owl:ObjectProperty rdf:about="#R43”> | Gene\_Product\_Has\_Malfunction\_Type | MRREL.RELA = gene\_product\_has\_malfunction\_type |
| <owl:ObjectProperty rdf:about="#R44”> | Gene\_Product\_Has\_Chemical\_Classification | MRREL.RELA = gene\_product\_has\_chemical\_classification |
| <owl:ObjectProperty rdf:about="#R45”> | Gene\_Product\_Has\_Organism\_Source | MRREL.RELA = gene\_product\_has\_organism\_source |
| <owl:ObjectProperty rdf:about="#R46”> | Gene\_Product\_Has\_Associated\_Anatomy | MRREL.RELA = gene\_product\_has\_associated\_anatomy |
| <owl:ObjectProperty rdf:about="#R47”> | Gene\_Product\_Is\_Biomarker\_Of | MRREL.RELA = gene\_product\_is\_biomarker\_of |
| <owl:ObjectProperty rdf:about="#R48”> | Gene\_Product\_Malfunction\_Associated\_With\_Disease | MRREL.RELA = gene\_product\_malfunction\_associated\_with\_disease |
| <owl:ObjectProperty rdf:about="#R49”> | Gene\_Product\_Expressed\_In\_Tissue | MRREL.RELA = gene\_product\_expressed\_in\_tissue |
| <owl:ObjectProperty rdf:about="#R50”> | Gene\_Product\_Has\_Structural\_Domain\_Or\_Motif | MRREL.RELA = gene\_product\_has\_structural\_domain\_or\_motif |
| <owl:ObjectProperty rdf:about="#R51”> | Gene\_Product\_Is\_Physical\_Part\_Of | MRREL.RELA = gene\_product\_is\_physical\_part\_of |
| <owl:ObjectProperty rdf:about="#R52”> | Gene\_Product\_Has\_Biochemical\_Function | MRREL.RELA = gene\_product\_has\_biochemical\_function |
| <owl:ObjectProperty rdf:about="#R53”> | Gene\_Product\_Plays\_Role\_In\_Biological\_Process | MRREL.RELA = gene\_product\_plays\_role\_in\_biological\_process |
| <owl:ObjectProperty rdf:about="#R54”> | Gene\_Product\_Encoded\_By\_Gene | MRREL.RELA = gene\_product\_encoded\_by\_gene |
| <owl:ObjectProperty rdf:about="#R66”> | Chemical\_Or\_Drug\_Plays\_Role\_In\_Biological\_Process | MRREL.RELA = chemical\_or\_drug\_plays\_role\_in\_biological\_process |
| <owl:ObjectProperty rdf:about="#R72”> | Chemical\_Or\_Drug\_Affects\_Cell\_Type\_Or\_Tissue | MRREL.RELA = chemical\_or\_drug\_affects\_cell\_type\_or\_tissue |
| <owl:ObjectProperty rdf:about="#R81”> | Anatomic\_Structure\_Has\_Location | MRREL.RELA = anatomic\_structure\_has\_location |
| <owl:ObjectProperty rdf:about="#R82”> | Anatomic\_Structure\_Is\_Physical\_Part\_Of | MRREL.RELA = anatomic\_structure\_is\_physical\_part\_of |
| <owl:ObjectProperty rdf:about="#R88”> | Disease\_Is\_Stage | MRREL.RELA = disease\_is\_stage |
| <owl:ObjectProperty rdf:about="#R89”> | Disease\_May\_Have\_Molecular\_Abnormality | MRREL.RELA = disease\_may\_have\_molecular\_abnormality |
| <owl:ObjectProperty rdf:about="#R100”> | Disease\_Has\_Associated\_Anatomic\_Site | MRREL.RELA = disease\_has\_associated\_anatomic\_site |
| <owl:ObjectProperty rdf:about="#R101”> | Disease\_Has\_Primary\_Anatomic\_Site | MRREL.RELA = disease\_has\_primary\_anatomic\_site |
| <owl:ObjectProperty rdf:about="#R102”> | Disease\_Has\_Metastatic\_Anatomic\_Site | MRREL.RELA = disease\_has\_metastatic\_anatomic\_site |
| <owl:ObjectProperty rdf:about="#R103”> | Disease\_Has\_Normal\_Tissue\_Origin | MRREL.RELA = disease\_has\_normal\_tissue\_origin |
| <owl:ObjectProperty rdf:about="#R104”> | Disease\_Has\_Normal\_Cell\_Origin | MRREL.RELA = disease\_has\_normal\_cell\_origin |
| <owl:ObjectProperty rdf:about="#R105”> | Disease\_Has\_Abnormal\_Cell | MRREL.RELA = disease\_has\_abnormal\_cell |
| <owl:ObjectProperty rdf:about="#R106”> | Disease\_Has\_Molecular\_Abnormality | MRREL.RELA = disease\_has\_molecular\_abnormality |
| <owl:ObjectProperty rdf:about="#R107”> | Disease\_Has\_Cytogenetic\_Abnormality | MRREL.RELA = disease\_has\_cytogenetic\_abnormality |
| <owl:ObjectProperty rdf:about="#R108”> | Disease\_Has\_Finding | MRREL.RELA = disease\_has\_finding |
| <owl:ObjectProperty rdf:about="#R110”> | Disease\_Is\_Grade | MRREL.RELA = disease\_is\_grade |
| <owl:ObjectProperty rdf:about="#R112”> | Disease\_May\_Have\_Normal\_Cell\_Origin | MRREL.RELA = disease\_may\_have\_normal\_cell\_origin |
| <owl:ObjectProperty rdf:about="#R113”> | Disease\_May\_Have\_Abnormal\_Cell | MRREL.RELA = disease\_may\_have\_abnormal\_cell |
| <owl:ObjectProperty rdf:about="#R114”> | Disease\_May\_Have\_Cytogenetic\_Abnormality | MRREL.RELA = disease\_may\_have\_cytogenetic\_abnormality |
| <owl:ObjectProperty rdf:about="#R115”> | Disease\_May\_Have\_Finding | MRREL.RELA = disease\_may\_have\_finding |
| <owl:ObjectProperty rdf:about="#R116”> | Disease\_May\_Have\_Associated\_Disease | MRREL.RELA = disease\_may\_have\_associated\_disease |
| <owl:ObjectProperty rdf:about="#R122”> | Chemical\_Or\_Drug\_Is\_Metabolized\_By\_Enzyme | MRREL.RELA = chemical\_or\_drug\_is\_metabolized\_by\_enzyme |
| <owl:ObjectProperty rdf:about="#R123”> | Chemotherapy\_Regimen\_Has\_Component | MRREL.RELA = chemotherapy\_regimen\_has\_component |
| <owl:ObjectProperty rdf:about="#R124”> | Chemical\_Or\_Drug\_Has\_Mechanism\_Of\_Action | MRREL.RELA = chemical\_or\_drug\_has\_mechanism\_of\_action |
| <owl:ObjectProperty rdf:about="#R125”> | Chemical\_Or\_Drug\_Has\_Physiologic\_Effect | MRREL.RELA = chemical\_or\_drug\_has\_physiologic\_effect |
| <owl:ObjectProperty rdf:about="#R126”> | Disease\_Has\_Associated\_Disease | MRREL.RELA = disease\_has\_associated\_disease |
| <owl:ObjectProperty rdf:about="#R130”> | Gene\_Is\_Element\_In\_Pathway | MRREL.RELA = gene\_is\_element\_in\_pathway |
| <owl:ObjectProperty rdf:about="#R131”> | Gene\_Product\_Is\_Element\_In\_Pathway | MRREL.RELA = gene\_product\_is\_element\_in\_pathway |
| <owl:ObjectProperty rdf:about="#R132”> | Gene\_Has\_Abnormality | MRREL.RELA = gene\_has\_abnormality |
| <owl:ObjectProperty rdf:about="#R133”> | Gene\_Product\_Has\_Abnormality | MRREL.RELA = gene\_product\_has\_abnormality |
| <owl:ObjectProperty rdf:about="#R135”> | Disease\_Excludes\_Primary\_Anatomic\_Site | MRREL.RELA = disease\_excludes\_primary\_anatomic\_site |
| <owl:ObjectProperty rdf:about="#R137”> | Disease\_Excludes\_Normal\_Tissue\_Origin | MRREL.RELA = disease\_excludes\_normal\_tissue\_origin |
| <owl:ObjectProperty rdf:about="#R138”> | Disease\_Excludes\_Normal\_Cell\_Origin | MRREL.RELA = disease\_excludes\_normal\_cell\_origin |
| <owl:ObjectProperty rdf:about="#R139”> | Disease\_Excludes\_Abnormal\_Cell | MRREL.RELA = disease\_excludes\_abnormal\_cell |
| <owl:ObjectProperty rdf:about="#R140”> | Disease\_Excludes\_Molecular\_Abnormality | MRREL.RELA = disease\_excludes\_molecular\_abnormality |
| <owl:ObjectProperty rdf:about="#R141”> | Disease\_Excludes\_Cytogenetic\_Abnormality | MRREL.RELA = disease\_excludes\_cytogenetic\_abnormality |
| <owl:ObjectProperty rdf:about="#R142”> | Disease\_Excludes\_Finding | MRREL.RELA = disease\_excludes\_finding |
| <owl:ObjectProperty rdf:about="#R145”> | Gene\_Has\_Physical\_Location | MRREL.RELA = gene\_has\_physical\_location |
| <owl:ObjectProperty rdf:about="#R146”> | Chemical\_Or\_Drug\_Affects\_Gene\_Product | MRREL.RELA = chemical\_or\_drug\_affects\_gene\_product |
| <owl:ObjectProperty rdf:about="#R150”> | Chemical\_Or\_Drug\_Affects\_Abnormal\_Cell | MRREL.RELA = chemical\_or\_drug\_affects\_abnormal\_cell |
| <owl:ObjectProperty rdf:about="#R151”> | Allele\_Associated\_With\_Disease | MRREL.RELA = allele\_associated\_with\_disease |
| <owl:ObjectProperty rdf:about="#R152”> | Allele\_Not\_Associated\_With\_Disease | MRREL.RELA = allele\_not\_associated\_with\_disease |
| <owl:ObjectProperty rdf:about="#R153”> | Allele\_Has\_Abnormality | MRREL.RELA = allele\_has\_abnormality |
| <owl:ObjectProperty rdf:about="#R154”> | Allele\_Not\_Associated\_With\_Abnormality | Currently no relationships with this RELA |
| <owl:ObjectProperty rdf:about="#R155”> | Allele\_In\_Chromosomal\_Location | MRREL.RELA = allele\_in\_chromosomal\_location |
| <owl:ObjectProperty rdf:about="#R156”> | Allele\_Absent\_From\_Wild-type\_Chromosomal\_Location | MRREL.RELA = allele\_absent\_from\_wild-type\_chromosomal\_location |
| <owl:ObjectProperty rdf:about="#R157”> | Allele\_Ceases\_Function\_In\_Pathway | Currently no relationships with this RELA |
| <owl:ObjectProperty rdf:about="#R158”> | Allele\_Plays\_Altered\_Role\_In\_Process | MRREL.RELA = allele\_plays\_altered\_role\_in\_process |
| <owl:ObjectProperty rdf:about="#R159”> | Allele\_Has\_Activity | MRREL.RELA = allele\_has\_activity |
| <owl:ObjectProperty rdf:about="#R160”> | Allele\_Plays\_Role\_In\_Metabolism\_Of\_Chemical\_Or\_Drug | MRREL.RELA = allele\_plays\_role\_in\_metabolism\_of\_chemical\_or\_drug |
| <owl:ObjectProperty rdf:about="#R162”> | Procedure\_May\_Have\_Target\_Anatomy | Currently no relationships with this RELA |
| <owl:ObjectProperty rdf:about="#R163”> | Procedure\_Has\_Target\_Anatomy | MRREL.RELA = procedure\_has\_target\_anatomy |
| <owl:ObjectProperty rdf:about="#R164”> | Procedure\_May\_Have\_Imaged\_Anatomy | Currently no relationshipships with this RELA |
| <owl:ObjectProperty rdf:about="#R165”> | Procedure\_Has\_Imaged\_Anatomy | MRREL.RELA = procedure\_has\_imaged\_anatomy |
| <owl:ObjectProperty rdf:about="#R166”> | Procedure\_May\_Have\_Excised\_Anatomy | MRREL.RELA = procedure\_may\_have\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R167”> | Procedure\_Has\_Excised\_Anatomy | MRREL.RELA = procedure\_has\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R168”> | Procedure\_May\_Have\_Partially\_Excised\_Anatomy | MRREL.RELA = procedure\_may\_have\_partially\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R169”> | Procedure\_Has\_Partially\_Excised\_Anatomy | MRREL.RELA = procedure\_has\_partially\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R170”> | Procedure\_May\_Have\_Completely\_Excised\_Anatomy | MRREL.RELA = procedure\_may\_have\_completely\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R171”> | Procedure\_Has\_Completely\_Excised\_Anatomy | MRREL.RELA = procedure\_has\_completely\_excised\_anatomy |
| <owl:ObjectProperty rdf:about="#R172”> | Regimen\_Has\_Accepted\_Use\_For\_Disease | MRREL.RELA = regimen\_has\_accepted\_use\_for\_disease |