Role	Use Case / Requirement	Notes
Anatomic Structure Has Location	Osc Gusc / Requirement	Notes
Anatomic Structure is Physical Part Of		
Biological_Process_Has_Associated_Location		
Biological Process Has Initiator Chemical or Drug		Added 2004MARCH08
Biological_Process_Has_Initiator_Process  Biological_Process_Has_Initiator_Process		Added 2004MARCH08
Biological_Process_Has_Result_Anatomy		Added 2004MARCH08
Biological_Process_Has_Result_Biological_Process		Added 2004MARCH08
		Added 2004MARCH08
Biological_Process_Has_Result_Chemical_or_Drug		Added 2004MARCH08
Biological_Process_ls_Part_Of_Process		Destriction of the Community of the Comm
Chemical_or_Drug_Affects_Gene_Product	4/6 4/8 5/7 12/1	Partially satisfies 5/7. Transitive w/ Gene_Product_Is_Pathway_Element. Modified (CD_ = Chemical_or_Drug_) 2004MARCH08 . Inclusion pending CCR approval.
Chemical_or_Drug_Effects_Cell_Type_Or_Tissue		Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Has_Accepted_Therapeutic_Use_For		Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Has_Mechanism_OF_Action	12/1	Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Has_Physiological_Effect		Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Has_Study_Therapeutic_Use_For		Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Has_Target_Protein		Will be replaced with CD_Affects_Gene_Product. Deprecation pending CCR approval
Chemical or Drug Metabolized by Enzyme		Modified (CD_ = Chemical_or_Drug_) 2004MARCH08
Chemical_or_Drug_Used_In_Technique	8/5	Modified (CD_ = Chemical_or_Drug_) 2004MARCH08 Inclusion pending CCR approval.
Chemotherapy_Regimen_Has_Component		Modified 2004MARCH08
Conceptual_Part_Of		
Disease_Has_Abnormal_Cell		OC disease modelers 12/23/03 - Defining Role
Disease Has Finding		OC disease modelers 12/23/03 - Defining Role
Disease_Has_Cytogenetic_Abnormality	11/1	OC disease modelers 12/23/03 - Defining Role
Disease_Has_Molecular_Abnormality	11/1	OC disease modelers 12/23/03 - Defining Role
Disease_Has_Normal_Cell_Origin		OC disease modelers 12/23/03 - Defining Role
Disease Has Normal Tissue Origin		OC disease modelers 12/23/03 - Defining Role
Disease_Has_Metastatic_Anatomic_Site		OC disease modelers 12/23/03 - Defining Role
Disease Has Primary Anatomic Site		OC disease modelers 12/23/03 - Defining Role
Disease_Has_Associated_Anatomic_Site		OC disease modelers 12/23/03 - Defining Role
Disease_Is_Stage		OC disease modelers 12/23/03 - Defining Role
Disease Is Grade		OC disease modelers 12/23/03 - Defining Role
Disease Has Modifier		Added 2004MARCH08 Removal pending review by LW
Disease Metastatic to Site		Added 2004MARCH08 Removal pending review by LW
Disease_May_Have_Normal_Cell_Origin		OC disease modelers 12/23/03 - Non-defining Role
Disease May Have Normal Tissue Origin		OC disease modelers 12/23/03 - Non-defining Role
Disease May Have Abnormal Cell		OC disease modelers 12/23/03 - Non-defining Role
Disease_May_Have_Cytogenetic_Abnormality		OC disease modelers 12/23/03 - Non-defining Role
Disease May Have Molecular Abnormality	11/1	OC disease modelers 12/23/03 - Non-defining Role
Disease May Have Finding		OC disease modelers 12/23/03 - Non-defining Role
EO_Anatomic_Structure_is_Physical_Part_of	9/1	O C.
EO_Derived_by_Technique	0.1	Added 2004MARCH08
EO Develops Disease		Added 2004MARCH08
EO_Develops_bisease EO_Anatomy_Found_In_Organism	9/2 9/4	DROPPED !!!
EO Disease Has Associated Cell Type	9/3	DINOLI ED :::
EO Disease Has Associated EO Anatomy	9/3	
EO Disease Has Property or Attribute	9/5	
EO Disease Maps to Human Disease	9/2	
EO_Disease_iviaps_to_numan_Disease	912	

Partially satisfies 5/8 DROPPED !!!  Added 2004MARCH08 Added 2004MARCH08 NOT IN DTD 2004MARCH08 subsumes Gene_Assoc_w_Disease relationship NOT YET CHANGED IN DTD Additional role needed to relate organism and EO?  Gene clone concepts to be Gene_Kind_NOT IN DTD 2004MARCH08 Partially satisfies 7/2 NOT IN DTD 2004MARCH08 Normal function. Defined w/ GO tags.
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Partially satisfies 7/2 NOT IN DTD 2004MARCH08
Partially satisfies 7/2 NOT IN DTD 2004MARCH08
Normal function. Defined w/ GO tags.
NOT IN DTD 2004MARCH08
Partially satisfies 5/7. D/N indicate effect on specific genes in pathway, just pathway as a whole NOT
IN DTD 2004MARCH08
NOT IN DTD 2004MARCH08
Describes g_p enzymatic or cellular function. Need a role to cover abnormal or disease related
functional relationships, not normal relationships
·
Use Biocarta pathway names: 5/2 ^^ NOT IN DTD 2004MARCH08
,
UC/R appears to requires 2nd role also, Gene Has Function
~ Requires qualification of role: citation or other authority
Relation from Organism to EO? Oragnism_Is_EO? Branch of Organism tree "EO"? Something is
missing here anyway
5/6 is out of scope. 5/7 and 5/8 are partially out of scope.