

Roles declared in the NCI Thesaurus, as of 1/17/07

Role Name	Domain	Range
Allele_Absent_From_Wild-type_Chromosomal_Location	Gene_Kind	Anatomy_Kind
Allele_Associated_With_Disease	Gene_Kind	Findings_and_Disorders_Kind
Allele_Ceases_Function_In_Pathway	Gene_Kind	Pathway_Kind
Allele_Has_Abnormality	Gene_Kind	Molecular_Abnormality_Kind
Allele_Has_Activity	Gene_Kind	Properties_or_Attributes_Kind
Allele_In_Chromosomal_Location	Gene_Kind	Anatomy_Kind
Allele_Is_Cancer_Related_Type	Gene_Kind	Gene_Kind
Allele_Not_Associated_With_Abnormality	Gene_Kind	Molecular_Abnormality_Kind
Allele_Not_Associated_With_Disease	Gene_Kind	Findings_and_Disorders_Kind
Allele_Plays_Altered_Role_In_Process	Gene_Kind	Biological_Process_Kind
Allele_Plays_Role_In_Metabolism_Of_Chemical_Or_Drug	Gene_Kind	Chemicals_and_Drugs_Kind
Anatomic_Structure_Has_Location	Anatomy_Kind	Anatomy_Kind
Anatomic_Structure_is_Physical_Part_of	Anatomy_Kind	Anatomy_Kind
Biological_Process_Has_Associated_Location	Biological_Process_Kind	Anatomy_Kind
Biological_Process_Has_Initiator_Chemical_or_Drug	Biological_Process_Kind	Chemicals_and_Drugs_Kind
Biological_Process_Has_Initiator_Process	Biological_Process_Kind	Biological_Process_Kind
Biological_Process_Has_Result_Anatomy	Biological_Process_Kind	Anatomy_Kind
Biological_Process_Has_Result_Biological_Process	Biological_Process_Kind	Biological_Process_Kind
Biological_Process_Has_Result_Chemical_or_Drug	Biological_Process_Kind	Chemicals_and_Drugs_Kind
Biological_Process_Is_Part_of_Process	Biological_Process_Kind	Biological_Process_Kind
Chemical_Or_Drug_Affects_Abnormal_Cell	Chemicals_and_Drugs_Kind	Abnormal_Cell_Kind
Chemical_or_Drug_Affects_Cell_Type_or_Tissue	Chemicals_and_Drugs_Kind	Anatomy_Kind
Chemical_Or_Drug_Affects_Gene_Product	Chemicals_and_Drugs_Kind	Gene_Product_Kind
Chemical_or_Drug_FDA_Approved_for_Disease	Chemicals_and_Drugs_Kind	Findings_and_Disorders_Kind
Chemical_or_Drug_Has_Accepted_Therapeutic_Use_For	Chemicals_and_Drugs_Kind	Findings_and_Disorders_Kind
Chemical_or_Drug_Has_Mechanism_Of_Action	Chemicals_and_Drugs_Kind	Biological_Process_Kind
Chemical_or_Drug_Has_Physiologic_Effect	Chemicals_and_Drugs_Kind	Biological_Process_Kind
Chemical_or_Drug_Has_Study_Therapeutic_Use_For	Chemicals_and_Drugs_Kind	Findings_and_Disorders_Kind
Chemical_or_Drug_Is_Metabolized_By_Enzyme	Chemicals_and_Drugs_Kind	Gene_Product_Kind
Chemical_or_Drug_Plays_Role_in_Biological_Process	Chemicals_and_Drugs_Kind	Biological_Process_Kind
Chemotherapy_Regimen_Has_Component	Chemotherapy_Regimen_Kind	Chemicals_and_Drugs_Kind
Conceptual_Part_Of	NCI_Kind	NCI_Kind
Disease_Excludes_Abnormal_Cell	Findings_and_Disorders_Kind	Abnormal_Cell_Kind
Disease_Excludes_Cytogenetic_Abnormality	Findings_and_Disorders_Kind	Molecular_Abnormality_Kind

Gene_Has_Physical_Location
Gene_In_Chromosomal_Location
Gene_is_Biomarker_of
Gene_is_Biomarker_Type
Gene_Is_Element_in_Pathway
Gene_Plays_Role_in_Process
Gene_Product_Encoded_by_Gene
Gene_Product_Expressed_In_Tissue
Gene_Product_Has_Abnormality
Gene_Product_Has_Associated_Anatomy
Gene_Product_Has_Biochemical_Function
Gene_Product_Has_Chemical_Classification
Gene_Product_Has_Malfunction_Type
Gene_Product_Has_Organism_Source
Gene_Product_Has_Structural_Domain_Or_Motif
Gene_Product_is_Biomarker_of
Gene_Product_is_Biomarker_Type
Gene_Product_Is_Element_in_Pathway
Gene_Product_is_Physical_Part_of
Gene_Product_Malfunction_Associated_With_Disease
Gene_Product_Plays_Role_In_Biological_Process
Procedure_May_Have_Target_Anatomy
Procedure_Has_Target_Anatomy
Procedure_May_Have_Imaged_Anatomy
Procedure_Has_Imaged_Anatomy
Procedure_May_Have_Excised_Anatomy
Procedure_Has_Excised_Anatomy
Procedure_May_Have_Partially_Excised_Anatomy
Procedure_Has_Partially_Excised_Anatomy
Procedure_May_Have_Completely_Excised_Anatomy
Procedure_Has_Completely_Excised_Anatomy
Technique_Has_Associated_Condition
Regimen_Has_Accepted_Use_For_Disease
Technique_Has_Purpose
Technique_Has_Sample_or_Specimen_Anatomy
Technique_Has_Sample_or_Specimen_Chemical_or_Drug
Technique_Has_Target_Anatomy

Gene_Kind
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Clinical_or_Research_Activity_Kind
Clinical_or_Research_Activity_Kind
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Clinical_or_Research_Activity_Kind
Technique_Kind
Chemotherapy_Regimen_Kind
Technique_Kind
Technique_Kind
Technique_Kind
Technique_Kind

Anatomy_Kind
Anatomy_Kind
Findings_and_Disorders_Kind
Diagnostic_and_Prognostic_Factors_Kind
Pathway_Kind
Biological_Process_Kind
Gene_Kind
Anatomy_Kind
Molecular_Abnormality_Kind
Anatomy_Kind
Gene_Product_Kind
Gene_Product_Kind
Biological_Process_Kind
Organism_Kind
Anatomy_Kind
Findings_and_Disorders_Kind
Diagnostic_and_Prognostic_Factors_Kind
Pathway_Kind
Gene_Product_Kind
Findings_and_Disorders_Kind
Biological_Process_Kind
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Findings_and_Disorders_Kind
Findings_and_Disorders_Kind
Clinical_or_Research_Activity_Kind
Anatomy_Kind
Chemicals_and_Drugs_Kind
Anatomy_Kind

Technique_Has_Target_Chemical_or_Drug
Technique_Has_Target_Disease
Technique_Has_Target_Organism
Technique_Has_Target_Protein
Technique_Is_Used_In_Technique
Technique_Uses_Equipment

Technique_Kind
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Chemicals_and_Drugs_Kind
Findings_and_Disorders_Kind
Organism_Kind
Gene_Product_Kind
Technique_Kind
Equipment_Kind