ROH Ontology Classes, Object Properties and DataType Properties

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1. Ontologies used

Prefix	Ontology name	Ontology namespace	Ontology website
bibo	Bibliographic Ontology	http://purl.org/roh/mirror/bibo#	http://bibliontology.com/
cito	CiTO, the Citation Typing Ontology	http://purl.org/spar/cito#	https://sparontologies.github.io/cito/current/cito.html
foaf	FOAF: Friend of a Friend Ontology	http://purl.org/roh/mirror/foaf#	http://xmlns.com/foaf/spec/
gn	GeoNames Ontology	http://purl.org/roh/mirror/geonames#	http://www.geonames.org/ontology/documentation.html
obo-bfo	OBO Foundry, Basic Formal Ontology	http://purl.org/roh/mirror/obo/bfo#	http://www.obofoundry.org/ontology/bfo.html
obo-ero	OBO Foundry, eagle-i Research Resource Ontology (ERO)	http://purl.org/roh/mirror/obo/ero#	https://epenratalyst.harverd.edu/wik/displey/easke/Ontology
obo-iao	OBO Foundry, Information Artifact Ontology	http://purl.org/roh/mirror/obo/iao#	Stay / juthus com/ aformation-ordinate and legy/AO/
obo-ro	OBO Foundry, Relations Ontology	http://purl.org/roh/mirror/obo/ro#	http://www.obefoundry.org/ontology/re.html
owl	OWL Web Ontology Language	http://www.w3.org/2002/07/owl#	https://www.w3.org/TR/owl-features/

rdf	The RDF Concepts Vocabulary (RDF)	http://www.w3.org/1999/02/22-rdf-syntax-ns#	https://www.w3.org/TR/rdf-concepts/
rdfs	RDF Schema 1.1	http://www.w3.org/2000/01/rdf-schema#	https://www.w3.org/TR/rdf-schema/
roh	Red de Ontologías Hércules / Hercules Network of Ontologies	http://purl.org/roh#	https://github.com/HerculesCRUE/GnossDeustoOnto/tree/master/Documentation
rohes	Red de Ontologías Hércules / Hercules Network of Ontologies, Spanish specialization	http://purl.org/rohes#	https://github.com/HerculesCRUE/GnossDeustoOnto/tree/master/Documentation
rohum	Red de Ontologías Hércules / Hercules Network of Ontologies – University of Murcia Specialization	http://purl.org/rohumil	https://github.com/hterculesCRUE/GnossDeustoOnto/tree/master/Documentation
skos	SKOS Simple Knowledge Organization System	http://www.w3.org/2004/02/skos/core#	https://www.w3.org/TR/2008/WD-skos-reference-20080829/skos.html
uneskos	SKOS UNESCO Thesaurus	http://purl.org/umu/uneskos#	https://skos.um.es/unescothes/downloads.php
vcard	vCard Ontology - for describing People and Organizations	http://purl.org/roh/mirror/vcard#	https://www.w3.org/TR/vcard-rdf/
vivo	VIVO core ontology	http://purl.org/roh/mirror/vivo#	https://wiki.lyrasis.org/display/VIVO/The+core+ontology+and+its+annotations

2. Concepts modelled

2.1. vivo:AcademicDegree

Prefix	Class	Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	lindicates explicit domain:		Range values
vivo	AcademicDegree				vivo	abbreviation	rdfs:Literal	
					roh	title	xsd:string	

2.2. roh:Accreditation

Prefix	Class			Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Accredit	ation		vivo	hasGoverningActivity	foaf:Organization	roh	title	xsd:string	
				vivo	hasSubjectArea	owl:Thing	vivo	description	xsd:string	
				roh	accreditationOf	foaf:Agent				
				roh	issuedBy	roh:AccreditationIssuer				
				vivo	dateIssued	vivo:DateTimeValue				
	roh	Acader	micAccreditation				roh	title	xsd:string	
		rohes	AyudanteDoctor							
		rohes	CatedraticoUniversida d							
		rohes	ContratadoDoctor							
		rohes	ProfesorUniversidadPrivada							
		rohes	TitularUniversidad							
	roh	Certific	cate				roh	title	xsd:string	
		roh	Award							
		roh	CourseCertificate							
		roh	LanguageCertificate				roh	language	xsd:string	
							roh	listeningSkill	xsd:string	{"A1", "A2', "B1", "B2", "C1", "C2"}
							roh	readingSkill	xsd:string	{"A1", "A2", "B1", "B2", "C1", "C2"}
							roh	speakingSkill	xsd:string	{"A1", "A2", "B1", "B2", "C1", "C2"}

						roh	spokenInteractionSkill	xsd:string	{"A1", "A2", "B1", "B2", "C1", "C2"}
roh	DegreeHomologation		vivo	relates	vivo:AwardedDegree				
roh	License								
roh	ResearchAccreditation								
	rohes	Sexenio	vivo	dateTimeInterval	vivo:DateTimeInterval				

2.3. rohes:Account

Prefix	Class					Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
rohes	Account	t			rohes	charges	roh:Expense				
	rohes	rohes ActivoNoCorriente		ite							
	rohes InmovilizacionesIntang ibles										
	rohes	Compra	sYGasto	s Por Naturaleza							
		rohes	Perdida	S							
		rohes	Servicio	sExteriores							
		rohes Suministros									

2.4. roh:Activity

Prefix	Class		Prefi x	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Activity		roh	participatedBy	foaf:Agent	vivo	identifier	xsd:string	
			bibo	presents	bibo:Document	roh	description	xsd:string	
			vivo	relates	roh:Expense or obo- bfo:Role	vivo	freeTextKeyword	xsd:string	
			obo- bfo	realizes	obo-bfo:Role	vivo	contactInformation	rdfs:Literal	
			vivo	hasSubjectArea	skos:Concept	roh	title	xsd:string	
			vivo	dateTimeInterval	vivo:DateTimeInterval				
				locatedin	gn:Feature				
	vivo	vivo Competition							
	bibo	bibo Conference				vivo	abbreviation	rdfs:Literal	
	vivo	Course	obo-ro	partOf	vivo:AcademicDegree	vivo	courseCredits	xsd:int	
						vivo	courseHours	xsd:string	
	vivo	Exhibit							
	bibo	Hearing							
	vivo	Internship							
	vivo	Interview							
	vivo Meeting bibo Performance								
	vivo Presentation								
	vivo	InvitedTalk							
	roh	PanelTalk							

	roh	ThesisViva				
	bibo	Workshop				

2.5. foaf:Agent

Prefix	Class			Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
foaf	Agent			roh	hasContactInfo	vcard:Organization	vivo	freeTextKeyword	xsd:string	
				roh	hasAccreditation	roh:Accreditation				
				roh	hasRole	obo-bfo:Role				
				foaf	mBox	owl:Thing				
				vivo	relatedBy	vivo:Relationship				
	foaf	Organiz	ation	roh	hasKnowledgeArea	skos:Concept	vivo	identifier	xsd:string	
				vivo	affiliatedOrganization	foaf:Organization	vivo	abbreviation	rdfs:Literal	
				vivo	hasSuccessorOrganization	foaf:Organization	roh	description	xsd:string	
				vivo	hasPredecessorOrganization	foaf:Organization	roh	researchLine	xsd:string	
				obo-ro	hasPart	foaf:Organization	roh	foundationDate	xsd:string	
				roh	hasInfrastructure	roh:Infastructure				
				foaf	homePage	foaf:Document				
			roh	participates	roh:Activity					
				roh	produces	roh:ResearchObject				
				roh	grantedBy	roh:FundingAmount				
			vivo	dateTimeInterval	vivo:DateTimeInterval					
				gn	locatedIn	gn:Feature				
		roh	AccreditationIssuer	roh	issues	roh:Accreditation				
		roh	FundingOrganization	roh	promotes	roh:FundingProgram or roh:FundingSource				
				roh	funds	roh:Funding				
		roh	ResearchGroup				roh	excellenceLabel	xsd:boolean	
		vivo	University	roh	awards	vivo:AwardedDegree				
	foaf	Person		roh	hasKnowledgeArea	skos:Concept	vivo	identifier	xsd:string	
				vivo	relates	vivo:AwardedDegree	vivo	researcherId		
				roh	spends	roh:PersonExpense	roh	birthdate	xsd:string	
				roh	hasContract	roh:PersonContract	vivo	eRACommonsId		
				roh	hasCV	roh:CurriculumVitae	roh	description	xsd:string	
				roh	hasPosition	vivo:Position	roh	firstName	xsd:string	
				roh	participates	roh:Activity	roh	gender	xsd:string	
				roh	elegibleFor	roh:Accreditation	roh	researchLine	xsd:string	
				foaf	homePage	foaf:Document	foaf	surname	xsd:string	
			foaf	image	foaf:Image	foaf	name	xsd:string		
				roh	correspondingAuthor		foaf	nickname	xsd:string	
				roh	supervisorOf	bibo:Thesis	roh	taxID	xsd:string	
							roh	title	xsd:string	
							roh	ORCID	xsd:string	
							vivo	scopusId		
							rohes	secondFamilyName	xsd:string	

2.6. skos:Concept

Prefix	Class			Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
skos	Concept	t		roh	knowledgeAreaOf					
	roh	Knowle	dgeArea							
		roh	UNESCOKnowledgeAr ea							
		rohes	FECYTKnowledgeArea							
	roh	Project	Classification							
		roh European								
		roh	International							
		roh National								
			rohes PlanEstatal20							
		roh	Own							
		roh	Regional							
	roh	HRClass	sification							
		roh	TrainingStaffPlaceme nt							
		roh	TechnicalSupportStaff Grant							
		roh	Mobility							
		roh	PostDocContract							
		roh	PostDocGrant							
		roh	PostDocContinuityGra							
		roh	PreDocContract							
		roh	PreDocGrant							
		roh	PreDocGrantContract							
		roh	ResearchStartGrant							

2.7. roh:CurriculumVitae

Prefix	Class	Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	lindicates explicit domain:		Range values
roh	CurriculumVitae	roh	cvof	foaf:Person	roh	cites	xsd:string	
					roh	factorH	xsd:string	
					roh	summary	xsd:string	

2.8. roh:Expense

Prefix	Class			Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Expense	e	roh	spentBy		roh	currency	xsd:string	
			vivo	dateTimeValue	vivo:DateTimeValue	vivo	description	xsd:string	
						roh	monetaryAmoung	xsd:float	
						roh	title	xsd:string	
	roh	PersonExpense				roh	expenseModality		
	roh	oh ProjectExpense							
	roh	ResearchObjectExpense							

	rohum	GastosCorrientesBien esYServicios			
		roh Arrendamientos um YCanones			
		roh IndemizacionesS um ervicio			
		roh MaterialSuminis um trosOtros			
		roh um ntenimientoCon servación			
	rohum	InversionesReales			

2.9. gn:Feature

Prefix	Class	Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	lindicates explicit domain:	Range Datatype (if typed)	Range values
gn	Feature	gn	featureClass		gn	geonamesID	rdfs:Literal	
		gn	featureCode	gn:Code	gn	countryCode	rdfs:Literal	
		gn	parentAMD1	gn:featureCode	gn	name	xsd:string	
		gn	parentAMD2	gn:featureCode	gn	population	xsd:integer	
		gn	parentAMD3	gn:featureCode				
		gn	parentAMD4	gn:featureCode				

2.10. roh:Funding, roh:FundingAmount, roh:FundingProgram & roh:FundingSource

Prefix	Class			Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Funding	1	obo-ro	hasPart	roh:FundingAmount	vivo	identifier	xsd:string	
			roh	fundedBy	roh:FundingProgram	vivo	description		
			vivo	dateTimeInterval	vivo:DateTimeInterval	vivo	freeTextKeyword		
			roh	financedBy	roh:FundingSource	roh	publicFunding	xsd:boolean	
			roh	hasContract	vivo:Contract				
			roh	supports	roh:PersonContract or roh:Project				
			roh	has Knowledge Area	skos:Concept				
				dateTimeInterval	vivo:DateTimeInterval				
	roh	Grant							
	roh	Loan							
	roh	Outsourcing							
	roh	RefundableAdvance							
roh	Funding	Amount	roh	grants	foaf:Organization	roh	currency	xsd:string	
			obo-ro	partOf	roh:Funding	roh	monetaryAmoung	xsd:float	
			vivo	dateTimeInterval	vivo:DateTimeInterval				
roh	Funding	Program	roh	promotedBy	roh:FundingSource	vivo	identifier	xsd:string	
			gn	locatedIn	gn:Feature	roh	title	xsd:string	
			vivo	dateTimeInterval	vivo:DateTimeInterval	vivo	description	xsd:string	
			obo-ro	hasPart	roh:FundingProgram				
roh	Funding	Source	roh	promotedBy	vivo:FundingOrganization				
			roh	funds	roh:FundingProgram				

2.11. roh:Infrastructure

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	lindicates explicit domain:	Range Datatype (if typed)	Range values
roh	Infrastr	ucture	roh	infrastructureOf	foaf:Agent	roh	title	xsd:string	
						vivo	description	xsd:string	
	roh	h Equipment				vivo	freeTextKeyword	xsd:string	
	roh	Facility	obo-ro	hasPart	roh:Facility				
	roh	roh Software		hasSubjectArea	skos:Concept				
			roh	correspondingAuthor	foaf:Person				

2.12. roh:Metric

Prefix	Class				Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Metric				roh	metricOf	roh:ResearchObject	roh	metricName	xsd:string	
	roh	Degreel	Metric								
		roh	ThesisN	Metric				roh	cumLaude	xsd:boolean	
								roh	mark	xsd:string	
			rohes	hes PhDThesisMe tric				rohes	doctoradoEuropeo	xsd:boolean	
								rohes	doctoradoInternacional	xsd:boolean	
								rohes	mencionCalidad	xsd:boolean	
								rohes	premioExtraordinarioDoctor ado	xsd:boolean	
	roh	PublicationMetric						roh	impactFactor	xsd:float	
								roh	quartile	xsd:string	{"Q1", "Q2", "Q3", "Q4"}
								roh	ranking	xsd:string	

2.13. vivo:Project

Prefix	Class	Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
vivo	Project	roh	hasKnowledgeArea	skos:Concept	vivo	identifier	xsd:string	
		vivo	relates	roh:Audit or obo-bfo:Role	vivo	abbreviation	rdfs:Literal	
		roh	hasContract	vivo:ProjectContract	vivo	description	rdfs:Literal	
		obo-ro	hasPart	vivo:Project	roh	title	xsd:string	
		vivo	participates	roh:Activity	roh	projectStatus	xsd:string	{"CLOSED" , "OPEN", "PROPOSA L_SUBMIT TED", "REJECTED "}
		roh	spends	roh:ProjectExpense	vivo	freeTextKeyword	xsd:string	
		roh	produces	roh:ResearchObject	roh	modality	xsd:string	
		vivo	relatedBy	roh:Dossier or roh:Justification or obo- bfo:Role	roh	foreseenJustificationDate	xsd:dateTime	
		roh	isSupportedBy	roh:Funding	roh	needsEthicalValidation	xsd:boolean	
		gn	locatedIn	gn:Feature				
		vivo	dateTimeInterval	vivo:DateTimeInterval				
		roh	hasProjectCategorization	roh:ProjectClassification				

roh hasHRClassification roh:HRClassification
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2.14. vivo:Relationship

Prefix	Class				Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
vivo	Relation	nship				,			,		
	vivo	Advisin	gRelat	ionship	vivo	dateTimeInterval	vivo:DateTimeInterval				
					vivo	hasSubjectArea	skos:Concept				
					vivo	relates	vivo:AdvisorRole or vivo:AdviseeRole or foaf:Person				
					vivo	degreeCandidacy	vivo:AcademicDegree				
	vivo	Awarde	dDegr	ee	roh	awardedBy	vivo:University				
					vivo	relates	foaf:Person or roh:AcademicDegree				
					vivo	dateTimeValue	vivo:DateTimeValue				
	vivo	Contrac	:t		roh	contractOf		bibo	abstract	xsd:string	
					roh	contractSigningDate	vivo:DateTimeValue	roh	fileURI		
					vivo	assignedBy	foaf:Organization	roh	attachment	owl:Thing	
					vivo	hasSubjectArea	skos:Concept				
					vivo	relates	roh:Funding or bibo:Patent or foaf:Agent or obo-bfo:Role				
					vivo	dateTimeInterval	vivo:DateTimeInterval				
					vivo	supportedInformationResour ce	obo- iao:InfrormationContentE ntity				
		roh	Perso	nContract	roh	has HRClassification	roh:HRClassification				
		roh	Proje	ctContract							
	vivo	Position		vivo	relates	foaf:Organization	vivo	rank	xsd:int		
					vivo	relates	foaf:Person	vivo	hrJobTitle		
					vivo	dateTimeInterval	vivo:DateTimeInterval				
		vivo	Facul ePosi	tyAdministrativ tion							
		vivo	Facul	tyPosition							
			rohes	CuerpoDocente							
				rohes: CatedraticoEsc uelaUniversitari a							
				rohes: CatedraticoDeU							
				niversidad rohes: ProfesorTitular							
				DeEscuelaUnive rsitaria							
				rohes: ProfesorTitular DeUniversidad							
			rohes	PDIContratado							
				rohes: Ayudante							
				rohes: ProfesorAsocia do							
				rohes: ProfesorAyuda nteDoctor							
				rohes: ProfesorContra tadoDoctor							
				rohes: ProfesorEmerit							
				o rohes: ProfesorVisitan							
			122	te			rah Dansar T				
		vivo	Libra	rianPosition	roh	produces	roh:DegreeThesis				

	VIVO	NonAcademicPositio n					
		NonFacultyAcademic Position					
	vivo	PrimaryPosition					
	roh	h ResearcherPosition					
roh	Supervi	singRelationship	vivo	dateTimeInterval	vivo:DateTimeInterval		
				produces	roh:Thesis		
				relates	roh:SupervisorRole or roh:SuperviseeRole or foaf:Person		
	roh DegreeSupervisingRel			produces	roh:DegreeThesis		
	roh MasterSupervisingRel ationship		roh	produces	roh:MasterThesis		
	roh PhDSupervisingRelati onship		roh	produces	roh:PhDThesis	·	

2.15. roh:ResearchObject

					I	Object accounts (ball)	T		Datatana Danasata (h. 13		
Prefix	Class				Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Researc	hObject			roh	hasKnowledgeArea	skos:Concept				
					roh	correspondingAuthor	foaf:Person				
					roh	producedBy	roh:Project				
	bibo	Collecti	on					bibo	oclcnum	rdfs:Literal	
		roh	Dossier		vivo	relates	roh:ProjectContract or bibo:Report or roh:Project	vivo	identifier	xsd:string	
					vivo	dateTimeInterval	vivo:DateTimeInterval	roh	title		
								vivo	description		
		bibo	Periodi	cal	vivo	publisher	foaf:Organization	bibo	eissn	rdfs:Literal	
								bibo	issn	rdfs:Literal	
			bibo	Journal	vivo	dateIssued	vivo:DateTimeValue	vivo	abbreviation	rdfs:Literal	
			bibo	Magazine							
	bibo	Docum	ent		vivo	publishedIn	bibo:Collection or bibo:Book	bibo	doi	xsd:string	
					bibo	authorList	rdf:Seq	bibo	abstract	xsd:string	
					vivo	dateIssued	vivo:DateTimeValue	bibo	pageStart		
					bibo	editorList	rdf:Seq	bibo	pageEnd		
								bibo	volume	rdfs:Literal	
		bibo	Abstrac	:t							
		bibo	Article					bibo	issue		
			bibo	AcademicArti cle							
				obo-iao: JournalArticle	roh	hasMetric	roh:PublicationMetric				
			vivo	ConferencePa per	bibo	presentedAt	bibo:Conference				
				roh: WorkshopPap							
			vivo	er EditorialArticl							+
		bibo	Book	е	vivo	publisher	foaf:Organization	bibo	edition	rdfs:Literal	
							-	bibo	isbn	rdfs:Literal	
								vivo	placeOfPublication	rdfs:Literal	
								bibo	iccn	rdfs:Literal	
			bibo	Proceedings							
		bibo		encePoster							
		bibo	Datase		cito	isCitedAsDataSourceBy	foaf:Document				+
		bibo		entPart	vivo	publisher	foaf:Organization	vivo	placeOfPublication	rdfs:Literal	
		5150	Jocum	Cintrait	VIVO	publisher	Tour.Organization	VIVO	praceoir abilitation	ruis.Literai	

				ı						
		bibo	BookSection							
			bibo: Chapter							
	bibo	Patent		vivo	publisher	foaf:Organization	vivo	identifier	xsd:string	
				gn	locatedin	gn:Feature	roh	modality	xsd:string	
				vivo	dateIssued	vivo:DateTimeValue				
				roh	ownerOrganization	foaf:Organization				
	bibo	Report	eport vi		distributor	foaf:Organization	roh	status	xsd:string	{"ACCEPTE D", "REJECTED "}
			vi		publisher	foaf:Organization				
		roh	EthicalReport							
			roh: EthicalAudit							
			roh: EthicalValidati on							
		roh	EvaluationSu mmary				roh	EvaluationStatus	xsd:string	{"FINAL", "PROVISIO NAL"}
		roh	Justification	vivo	relates	roh:Project				
		roh	ResearchProp osal	vivo	relates	roh:Justification or roh:ProjectContract or roh:Project or roh:ResearchProposal				
	bibo	Thesis					vivo	abbreviation	rdfs:Literal	
							vivo	placeOfPublication	rdfs:Literal	
		roh	oh DegreeThesis							
		roh	MasterThesis	-						
		roh	PhDThesis							
	bibo	Webpa	ge							

2.16. obo-bfo:Role

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
obo-bfo	Role		vivo	dateTimeInterval	vivo:DateTimeInterval	roh	dedication	xsd:string	{"PARTIAL" , "TOTAL"}
			roh	inheresIn	foaf:Agent	vivo	description	xsd:string	
			vivo	relatedBy	roh:Project or vivo:Relationship				
			roh	has Knowledge Area	skos:Concept				
			obo- bfo	realizedIn	roh:Activity				
			roh	roleOf	foaf:Agent				
	vivo	AdministratorRole							
	vivo	AdviseeRole							
	vivo	AdvisorRole							
	vivo	AttendeeRole							
	vivo	AuditeeRole							
	vivo	AuditorRole							
	vivo	EditorRole							
	vivo	EducatorRole							
	vivo	EmployeeRole							
	vivo	ExternalMemberRole							
	vivo	FundingRole							
	vivo	LeaderRole							
	vivo	MemberRole							
	vivo	OrganizerRole							

vivo	PresenterRole				
vivo	ResearcherRole				
vivo	ReviewerRole				
vivo	StudentRole				
vivo	SuperviseeRole				
vivo	SupervisorRole				
vivo	TeacherRole				
vivo	ThirdPartyContractorRole				

2.17. obo-ero:Service

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
obo-ero	Service		roh	isProvidedBy	foaf:Organization	vivo	identifier	xsd:string	
						roh	title	xsd:string	
						vivo	description	xsd:string	
	vivo	AccessService							
	vivo	AnalysisService							
	roh ExternalMemberRole								
	vivo								

2.18. rohes:Tax

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class	Prefix		Range Datatype (if typed)	Range values
rohes	Tax					rohes	rate	xsd:float	
	rohes	IVA							
	rohes	IRPF							
	rohes	IRNR							

2.19. obo-bfo:TemporalRegion

Prefix	Class			Prefix	Object property (bold indicates explicit Domain, otherwise a Restriction)	Range Class			Range Datatype (if typed)	Range values
	TemporalRegion									
	obo-bfo OneDimensionalTemporalRegion									
		vivo	DateTimeInterval	vivo	start	vivo:DateTimeValue				
					end	vivo:DateTimeValue				
	obo-bfo ZeroDimensionTemporalRegio									
		vivo	DateTimeValue				vivo	dateTime	xsd:dateTime	