

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://open.csi.cmc.harvard.edu/wiki/Display/EagleiOntology
obo-iao	OBO Foundry, Information Artifact Ontology	http://purl.org/roh/mirror/obo/iao#	https://github.com/information-artifact-ontology/iao
obo-ro	OBO Foundry, Relations Ontology	http://purl.org/roh/mirror/obo/ro#	http://www.obofoundry.org/ontology/ro.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/rohum#	https://github.com/HerculesCRUE/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
vcad	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	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	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	Accreditation	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 AcademicAccreditation				roh	title	xsd:string	
	rohes AyudanteDoctor							
	rohes CatedráticoUniversidad							
	rohes ContratadoDoctor							
	rohes ProfesorUniversidadPrivada							
	rohes TitularUniversidad							
	roh Certificate				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	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
rohes	Account	rohes	charges	roh:Expense				
	rohes	ActivoNoCorriente						
		rohes	InmovilizacionesIntangibles					
		...						
	rohes	ComprasYGastosPorNaturaleza						
		rohes	Perdidas					
		rohes	ServiciosExteriores					
		...						
		rohes	Suministros					
		...						

2.4. roh:Activity

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	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				
		gn	locatedIn	gn:Feature				
	vivo	Competition						
	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	Organization	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:Infrastructure				
			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		roh	knowledgeAreaOf					
	roh	KnowledgeArea							
		roh	UNESCOKnowledgeArea						
		rohes	FECYTKnowledgeArea						
	roh	ProjectClassification							
		roh	European						
		roh	International						
		roh	National						
		rohes	PlanEstatad2017-2020						
		roh	Own						
		roh	Regional						

2.7. roh:CurriculumVitae

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	CurriculumVitae		roh	CVOF	foaf:Person	roh	cites	xsd:string	
						roh	factorH	xsd:string	
						roh	summary	xsd:string	

2.8. roh:Expense

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	Expense		roh	spentBy		roh	currency	xsd:string	
			vivo	dateTimeValue	vivo:DateTimeValue	vivo	description	xsd:string	
						roh	monetaryAmount	xsd:float	
						roh	title	xsd:string	
	roh	PersonExpense				roh	expenseModality		
	roh	ProjectExpense							
	roh	ResearchObjectExpense							
		roh	GastosCorrientesBienesYServicios						
		roh	ArrendamientosYCanones						
		roh	IndemnizacionesServicio						
		roh	MaterialSuministrosOtros						
		roh	ReparacionesMantenimientoConservación						
		roh	InversionesReales						

2.9. gn:Feature

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
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	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	Funding	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	hasKnowledgeArea	skos:Concept				
		vivo	dateTimeInterval	vivo:DateTimeInterval				
	roh	Grant						
	roh	Loan						
	roh	Outsourcing						
	roh	RefundableAdvance						
roh	FundingAmount	roh	grants	foaf:Organization	roh	currency	xsd:string	
		obo-ro	partOf	roh:Funding	roh	monetaryAmount	xsd:float	
		vivo	dateTimeInterval	vivo:DateTimeInterval				
roh	FundingProgram	roh	promotedBy	roh:FundingSource	vivo	identifier	xsd:string	
		gn	locatedIn	gn:Feature	roh	title	xsd:string	
		vivo	dateTimeInterval	vivo:DateTimeInterval	vivo	description	xsd:string	
roh	FundingSource	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	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Infrastructure	roh	infrastructureOf	foaf:Agent	roh	title	xsd:string	
					vivo	description	xsd:string	
	roh	Equipment			vivo	freeTextKeyword	xsd:string	
	roh	Facility	obo-ro hasPart	roh:Facility				
	roh	Software	vivo 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 DegreeMetric							
	roh ThesisMetric				roh	cumLaude	xsd:boolean	
					roh	mark	xsd:string	
		rohes	PhDThesisMetric		rohes	doctoradoEuropeo	xsd:boolean	
					rohes	doctoradoInternacional	xsd:boolean	
					rohes	mencionCalidad	xsd:boolean	
					rohes	premioExtraordinarioDoctorado	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", "PROPOSAL_SUBMITTED", "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				

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	Relationship							
	vivo AdvisingRelationship	vivo	dateTimeInterval	vivo:DateTimeInterval				
		vivo	hasSubjectArea	skos:Concept				
		vivo	relates	vivo:AdvisorRole or vivo:AdviseeRole or foaf:Person				
		vivo	degreeCandidacy	vivo:AcademicDegree				
	vivo AwardedDegree	roh	awardedBy	vivo:University				
		vivo	relates	foaf:Person or roh:AcademicDegree				

			vivo	dateTimeValue	vivo:DateTimeValue				
	vivo	Contract	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	supportedInformationResource	obo- iao:InformationContentEntity				
		roh	PersonContract						
		roh	ProjectContract						
	vivo	Position	vivo	relates	foaf:Organization	vivo	rank	xsd:int	
			vivo	relates	foaf:Person	vivo	hrJobTitle		
			vivo	dateTimeInterval	vivo:DateTimeInterval				
		vivo	FacultyAdministrativePosition						
		vivo	FacultyPosition						
		roh	CuerpoDocente						
			roh: CatedraticoEscuelaUniversitaria						
			roh: CatedraticoDeUniversidad						
			roh: ProfesorTitularDeEscuelaUniversitaria						
			roh: ProfesorTitularDeUniversidad						
		roh	PDICContratado						
			roh: Ayudante						
			roh: ProfesorAsociado						
			roh: ProfesorAyudanteDoctor						
			roh: ProfesorContratadoDoctor						
			roh: ProfesorEmerito						
			roh: ProfesorVisitante						
		vivo	LibrarianPosition	roh	produces	roh:DegreeThesis			
		vivo	NonAcademicPosition						
		vivo	NonFacultyAcademicPosition						
		vivo	PrimaryPosition						
		roh	ResearcherPosition						
	roh	SupervisingRelationship	vivo	dateTimeInterval	vivo:DateTimeInterval				
			roh	produces	roh:Thesis				
			vivo	relates	roh:SupervisorRole or roh:SuperviseeRole or foaf:Person				
		roh	DegreeSupervisingRelationship	roh	produces	roh:DegreeThesis			
		roh	MasterSupervisingRelationship	roh	produces	roh:MasterThesis			
		roh	PhDSupervisingRelationship	roh	produces	roh:PhDThesis			

2.15. roh:ResearchObject

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	ResearchObject		roh	hasKnowledgeArea	skos:Concept				
			roh	correspondingAuthor	foaf:Person				
			roh	producedBy	roh:Project				
	bibo	Collection				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	Periodical	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	Document		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	Abstract						
		bibo	Article			bibo	issue		
		bibo	AcademicArticle						
			obo-iao:JournalArticle	roh	hasMetric	roh:PublicationMetric			
		vivo	ConferencePaper	bibo	presentedAt	bibo:Conference			
			roh:WorkshopPaper						
		vivo	EditorialArticle						
		bibo	Book	vivo	publisher	foaf:Organization	bibo	edition	rdfs:Literal
						bibo	isbn	rdfs:Literal	
						vivo	placeOfPublication	rdfs:Literal	
						bibo	iccn	rdfs:Literal	
		bibo	Proceedings						
		bibo	ConferencePoster						
		bibo	Dataset	cito	isCitedAsDataSourceBy	foaf:Document			
		bibo	DocumentPart	vivo	publisher	foaf:Organization	vivo	placeOfPublication	rdfs:Literal
		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	vivo	distributor	foaf:Organization	roh	status	xsd:string
				vivo	publisher	foaf:Organization			
		roh	EthicalReport						
			roh: EthicalAudit						
			roh: EthicalValidation						

			roh	EvaluationSummary							
			roh	Justification	vivo	relates	roh:Project				
			roh	ResearchProposal	vivo	relates	roh:Justification or roh:ProjectContract or roh:Project or roh:ResearchProposal				
		bibo	Thesis					vivo	abbreviation	rdfs:Literal	
								vivo	placeOfPublication	rdfs:Literal	
			roh	DegreeThesis							
			roh	MasterThesis							
			roh	PhDThesis							
		bibo	Webpage								

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	hasKnowledgeArea	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	Datatype Property (bold indicates explicit domain; otherwise a restriction)	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	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
obo-bfo	TemporalRegion								
	obo-bfo	OneDimensionalTemporalRegion							
	vivo	DateTimeInterval	vivo	start	vivo:DateTimeValue				
			vivo	end	vivo:DateTimeValue				
	obo-bfo	ZeroDimensionTemporalRegion							
	vivo	DateTimeValue				vivo	dateTime	xsd:dateTime	