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#	Interselve and test have diselve/wiki/diselve/exple/fortelvey
obo-iao	OBO Foundry, Information Artifact Ontology	http://purl.org/roh/mirror/obo/iao#	https://nthub.com/information-artifac-ontology/IRO/
obo-ro	OBO Foundry, Relations Ontology	http://purl.org/roh/mirror/obo/roff	http://www.ebofeandry.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/Documen tation
rohes	Red de Ontologías Hércules / Hercules Network of Ontologies, Spanish specialization	http://purl.org/rohesk	https://eithub.com/HerculesCRUE/GnossDeustoOnto/tree/master/Documen Lation
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
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, otherswise 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, otherswise 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	Acade	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	Degree	Homologation	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, otherswise 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 InmovilizacionesIntar		lizacionesIntan							
	rohes	Compra a	sYGasto	sPorNaturalez							
		rohes	Perdida	ıs							
		rohes ServiciosExteriores		sExteriores							
		rohes Suministros		Suministros							

2.4. roh:Activity

Prefix	Class		Prefi x	Object property (bold indicates explicit Domain, otherswise 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	Course	000-10	partor	vivo.AcademicDegree				
						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, otherswise 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	has Knowledge Area	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	
							rohes	secondFamilyName	xsd:string	

2.6. skos:Concept

			Object property (bold			Datatype Property (bold		
			indicates explicit Domain,			indicates explicit domain;	Range Datatype (if	Range
Prefix	Class	Prefix	otherswise a Restriction)	Range Class	Prefix	otherwise a restriction)	typed)	values

skos	Concep	t			roh	knowledgeAreaOf			
	roh	Knowle	edgeArea	1					
		roh	UNESCOKnowledgeAr						
		rohes	FECYTK	nowledgeArea					
	roh	Project	oject Classification						
		roh	European						
		roh	Interna	tional					
		roh	Nationa	al					
			PlanEstatal20 rohes 17-2020						
		roh	Own						
		roh Regional		al					

2.7. roh:CurriculumVitae

Prefix	Class		Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class				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, otherswise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Expens	е			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	ProjectExpense		nse							
	roh	Researc	hObj	jectExpense							
		rohum		tosCorrientesBien Servicios							
			1 1	Arrendamientos YCanones							
			1 1	IndemizacionesS ervicio							
		roh MaterialSuminis um trosOtros									
		ReparacionesMa roh ntenimientoCon um servación									
		rohum	Inve	ersionesReales							

2.9. gn:Feature

Prefix	Class		Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class				Range values
	Feature		featureClass	Q - 1 - 1 - 1		geonamesID	rdfs:Literal	values
		gn	featureCode	gn:Code	gn	countryCode	rdfs:Literal	
		gn	parentAMD1	gn:featureCode	gn	name	xsd:string	
		gn	parentAMD2	gn:featureCode	gn	population	xsd:integer	

8	gn	parentAMD3	gn:featureCode		
8	gn	parentAMD4	gn:featureCode		

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

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherswise 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	has Knowledge Area	skos:Concept				
			vivo	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	
roh	Funding	Source	roh	promotedBy	vivo:FundingOrganization				
			roh	funds	roh:FundingProgram				

2.11. roh:Infrastructure

Prefix	Class		Prefix	Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class			Range Datatype (if typed)	Range values
roh	Infrastr	ucture	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	oh Software		hasSubjectArea	skos:Concept				
				correspondingAuthor	foaf:Person				

2.12. roh:Metric

				Object property (bold indicates explicit Domain,			Datatype Property (bold indicates explicit domain;	Range Datatype (if	Range
Prefix	Class		Prefix	otherswise a Restriction)	Range Class	Prefix	otherwise a restriction)	typed)	values
roh	Metric		roh	metricOf	roh:ResearchObject	roh	metricName	xsd:string	
	roh	roh DegreeMetric							

	roh	ThesisN	∕letric			roh	cumLaude	xsd:boolean	
						roh	mark	xsd:string	
		rohes	PhDThesisMe es tric			rohes	doctoradoEuropeo	xsd:boolean	
						rohes	doctoradoInternacional	xsd:boolean	
						rohes	mencionCalidad	xsd:boolean	
						rohes	premioExtraordinarioDoctor ado	xsd:boolean	
roh	Publica	tionMet	ric			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, otherswise 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				

2.14. vivo:Relationship

				Object property (bold			Datatype Property (bold indicates explicit domain;	Barrar Batatura (if	D
				indicates explicit Domain,	2			Range Datatype (if	Range
Prefix	Class		Prefix	otherswise a Restriction)	Range Class	Prefix	otherwise a restriction)	typed)	values
vivo	Relation	nship							
	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		
				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	obo- iao:InfrormationContentE				
				VIVO	ce	ntity				
	roh	Perso	nContract							
	roh	Projec	ctContract							
vivo	Position	1		vivo	relates	foaf:Organization	vivo	rank	xsd:int	
				vivo	relates	foaf:Person				
				vivo	dateTimeInterval	vivo:DateTimeInterval				
	vivo	Facult ePosit	tyAdministrativ tion							
	vivo	Facult	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 te							
	vivo	Libra	rianPosition	roh	produces	roh:DegreeThesis				
	vivo	NonA n	cademicPositio							
	vivo		acultyAcademic on							
	vivo		ryPosition							
	roh	Resea	rcherPosition							
roh	Supervi	singRe	lationship	vivo	dateTimeInterval	vivo:DateTimeInterval				
				roh	produces	roh:Thesis				
				vivo	relates	roh:SupervisorRole or roh:SuperviseeRole or foaf:Person				
	roh	ations			produces	roh:DegreeThesis				
	roh		erSupervisingRel	roh	produces	roh:MasterThesis				
	roh		upervisingRelati	roh	produces	roh:PhDThesis				

2.15. roh:ResearchObject

Prefix	Class	lass		Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
roh	Researc	esearchObject		hasKnowledgeArea	skos:Concept				
			roh	correspondingAuthor	foaf:Person				
				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	Periodi	cal	vivo	publisher	foaf:Organization	bibo	eissn	rdfs:Literal	
							bibo	issn	rdfs:Literal	
		bibo	Journal	vivo	datelssued	vivo:DateTimeValue	vivo	abbreviation	rdfs:Literal	
		bibo	Magazine							
bibo	Docume	ent	<u> </u>	vivo	publishedIn	bibo:Collection or bibo:Book	bibo	doi	xsd:string	
				bibo	authorList		bibo	abstract	xsd:string	
				vivo	datelssued	vivo:DateTimeValue	bibo	pageStart		
				bibo	editorList	rdf:Seq	bibo	pageEnd		
							bibo	volume	rdfs:Literal	
	bibo	Abstrac	:t							
	bibo	Article					bibo	doi		
							bibo	issue		
							bibo	pageStart		
							bibo	pageEnd		
		bibo	cie							
			obo-iao: JournalArticle		hasMetric	roh:PublicationMetric				
		vivo	ConferencePa	bibo	presentedAt	bibo:Conference				
			roh: WorkshopPap							
			er EditorialArticl							
		vivo	e							
	bibo	Book		vivo	publisher	-	bibo	edition	rdfs:Literal	
							bibo	isbn	rdfs:Literal	
							vivo	placeOfPublication	rdfs:Literal	
							bibo	iccn	rdfs:Literal	
		bibo	Proceedings							
	bibo		encePoster							
	bibo	Dataset		cito	isCitedAsDataSourceBy	foaf:Document				
	bibo		mentPart	vivo	publisher	foaf:Organization	vivo	placeOfPublication	rdfs:Literal	
		bibo	BookSection							
			bibo: Chapter							
	bibo	Patent		vivo	publisher	-	vivo	identifier	xsd:string	
				gn	locatedin	gn:Feature	roh	modality	xsd:string	
				vivo	dateIssued	vivo:DateTimeValue				
				roh	ownerOrganization	foaf:Organization				{"ACCEPTE
	bibo	Report		vivo	distributor	foaf:Organization	roh	status	xsd:string	D", "REJECTED
				vivo	publisher	foaf:Organization				"}
		roh	EthicalReport							
			roh: EthicalAudit							
			roh: EthicalValidati							
			on EvaluationSu							
		roh	mmary							
		roh		vivo	relates	roh:Project roh:Justification or				
		roh	ResearchProp osal	vivo	relates	roh:ProjectContract or roh:Project or roh:ResearchProposal				
	bibo	Thesis					vivo	abbreviation	rdfs:Literal	
	טמונו	inesis					\$1VU	abbi eviatiOII	Turs.Erteral	

					vivo	placeOfPublication	rdfs:Literal	
		roh	DegreeThesis					
		roh	MasterThesis					
		roh	PhDThesis					
	bibo	Webpa	ge					

2.16. obo-bfo:Role

Prefix	Class		Class		Prefix	Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class	Prefix	Datatype Property (bold indicates explicit domain; otherwise a restriction)	Range Datatype (if typed)	Range values
obo-bfo			vivo	dateTimeInterval	vivo:DateTimeInterval	roh	dedication	xsd:string	{"PARTIAL"		
			roh	inheresIn	foaf:Agent	vivo	description	xsd:string	, rome j		
			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			Object property (bold indicates explicit Domain, otherswise a Restriction)	Range Class		· ·		Range values
obo-ero	Service		roh	isProvidedBy	foaf:Organization	vivo	identifier	xsd:string	
						roh	title	xsd:string	
						vivo	description	xsd:string	
	vivo	AccessService							

vvo	AnalysisService				
roh	ExternalMemberRole	·			
vivo					

2.18. rohes:Tax

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

2.19. obo-bfo:TemporalRegion

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