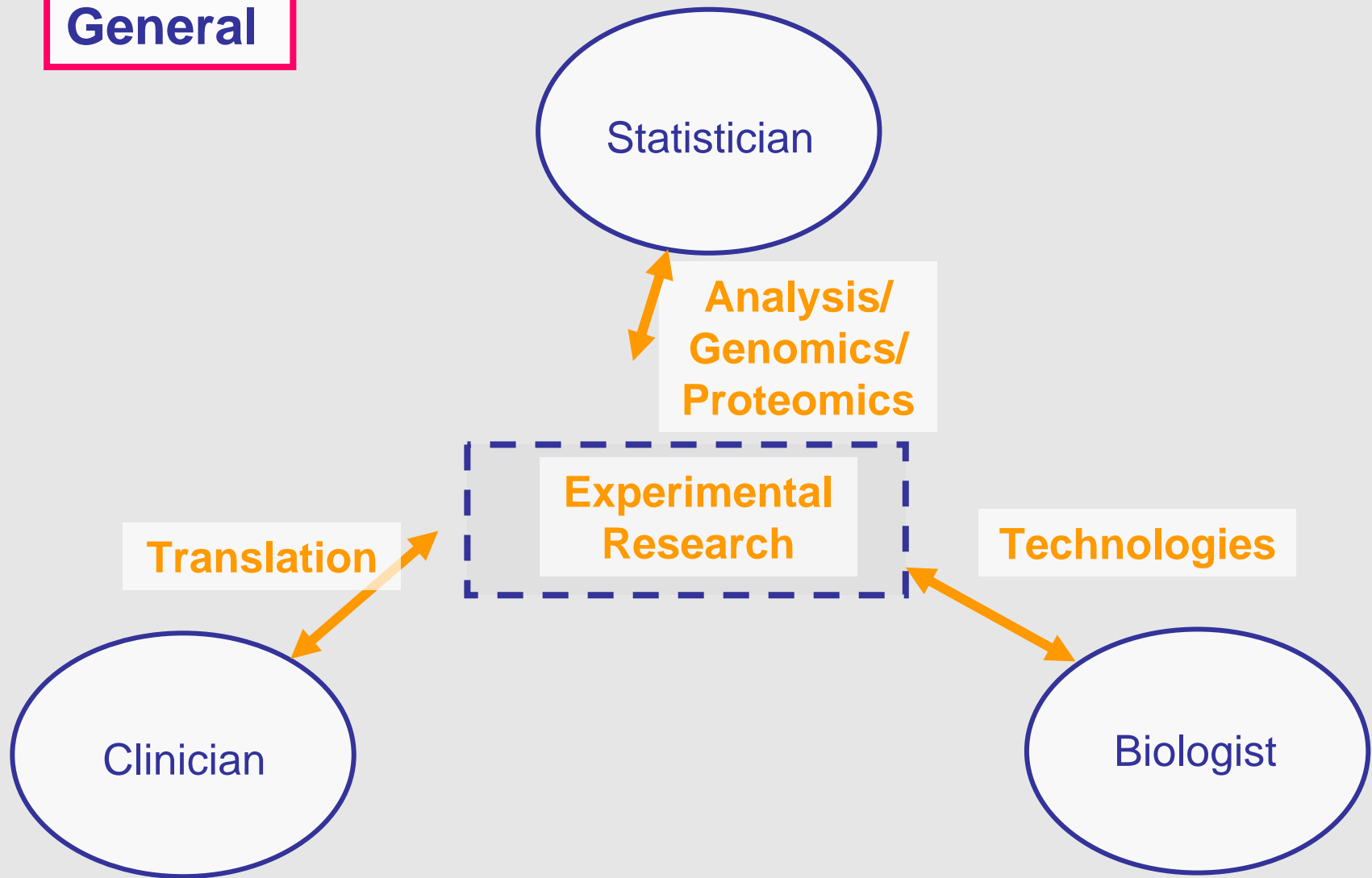
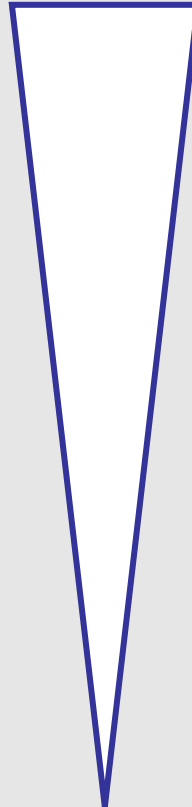
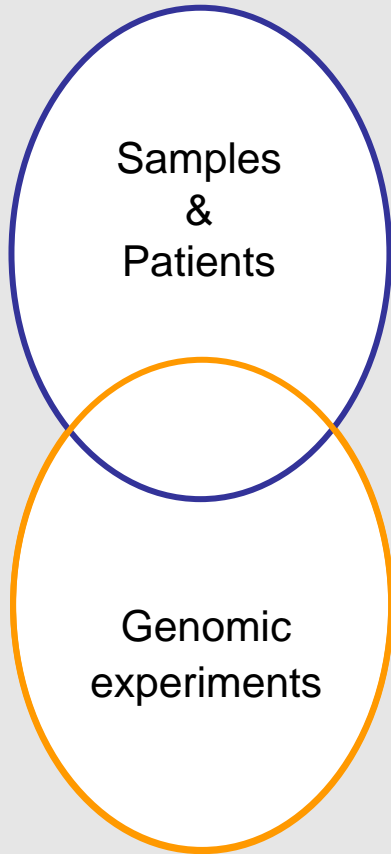
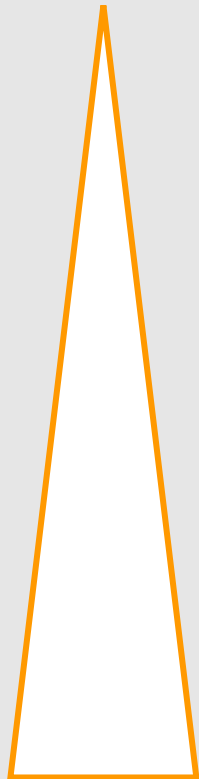


**General**



*Clinic*

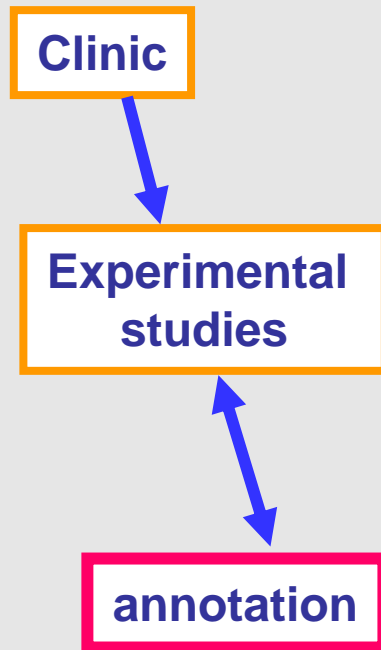
**Translation**



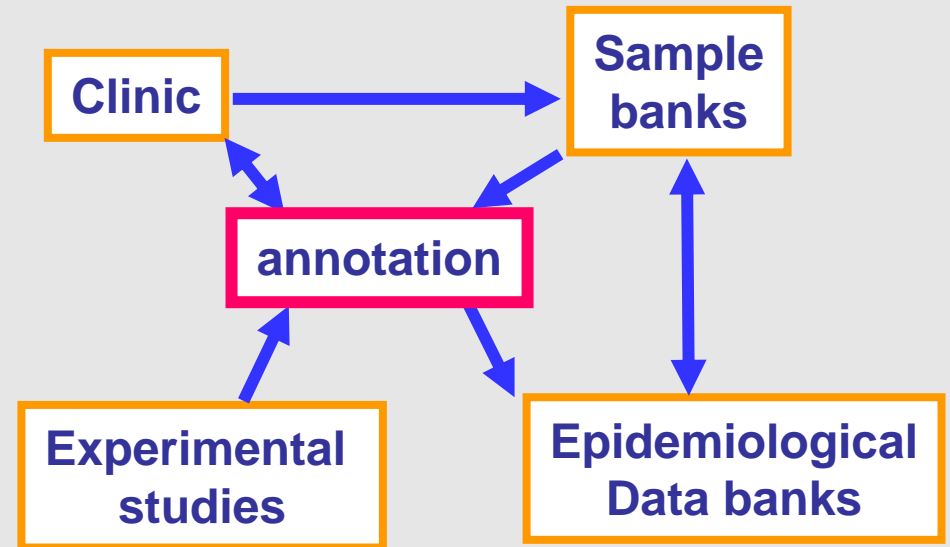
*Research*

- Access to multi-dimensional health information
- Data protection issues

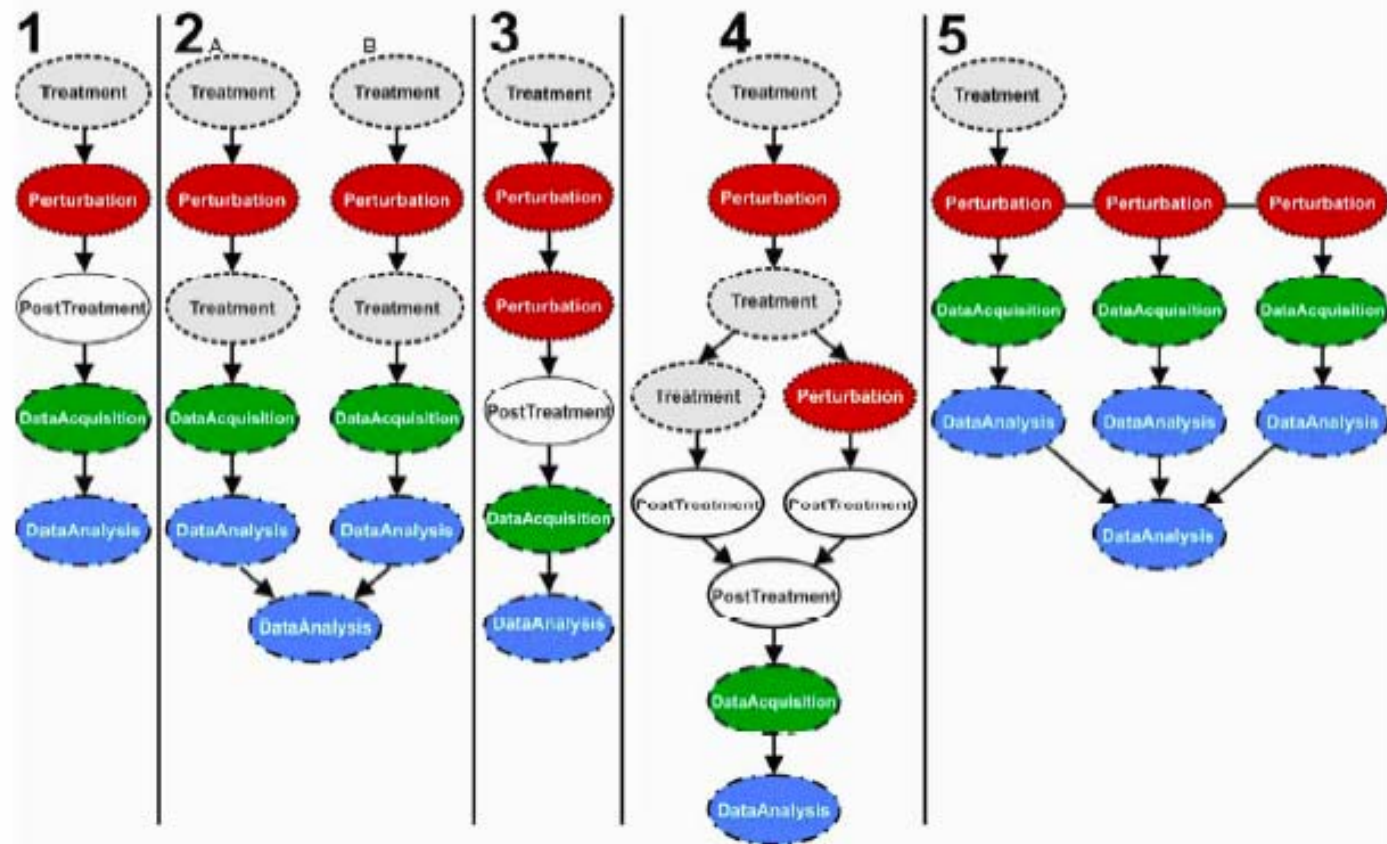
pre



post



## MIACA



application	1 Identification of proteins that induce apoptosis	2 Identification of novel anti-cancer drugs	3 Identification of modulators of MAPK signaling	4 Identification of proteins involved in drug activity	5 Identification of proteins involved in chromosome segregation & structure
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## MIACA

effect	GO	phosphorylation of Erk1/2 MAPK	more of its children GO:0006468 or its children
		caspase-3 activation	GO:0006919 or its children
		DNA replication	GO:0006260 or its children
<b>Cell line</b>			
cellLine:name	ATCC	NIH3T3 HEK293	CRL-1658 CRL-1573
	BRENDA Tissue / Enzyme	primary cells	BTO:0001413
cellLine:species	NCBI	human	Taxonomy ID: 9606
cellLine:age	Phenotype and Trait (PATO)	age	PATO:0000011
cellLine:devStage	BRENDA Tissue / Enzyme	embryo	BTO:0000379
cellLine:tissue	OBO cell type ontology	fibroblast	fibroblast (CL:0000057)
		epithelial	CL:0000066 or its children
	BRENDA Tissue / Enzyme	adenocarcinoma kidney	BTO:0000604 BTO:0000671
cellLine:modifications	GO, OBI (?)	immortalized	GO:0020021
<b>Cell culture material</b>			
cell culture array:type	OBI ?	96well 24well ependorf tube glass slide	
cell culture medium	??	DMEM	
cell culture medium:supplement	Chemical Entities ob biological interest (for small molecules)	Streptomycine	CHEBI:17076
<b>Treatments</b>			
perturbatorType	Molecular Interactions (MI) MI ?	siRNA	MI:0610
		expression construct	
		small molecule	
		time	
treatment types	OBI ?	temperature shift	
		seeding and cell growth, washing	
physicochemical values	SI units	temperature	degree Celsius
commonly used buffers & solutions	OBI ?	PBS, washing buffers	

**Experimental Standards**

**Gelelectrophoresis**

**Mass spectrometry:**



**Harmonization**

**Microarray:  
automatic  
exchange from/to  
repositories**

**Clinic**

**NGFN exchange  
format:**

**Cellular assay**

**MIACA**

