Category	Technique	구효정	권오주	김성주	김인숙	김호식	오일환	유지창	이숙경	이은경	이정화	임향숙	전흥재	정성환	정창섭	조미라	조영애	주대명
	Fluorescence microscopy, confocal microscopy	0			0				0			0	0			0		
Cell imaging	Laser capture microdissection																	
	Immunohistochemistry	0			0				0				0			О		
	In situ hybridization																	
	Immunofluorescence imaging	0							О			О	0			О		
	Live cell imaging															О		
	Fluorescence in situ hybridization (FISH)																	
	Electron microscoy												0			О		
	Apoptosis assays for flow cytometry				О		0		0			0	0					
	Apoptosis assays for imaging											0	0			0		
	Apoptosis assays for Western blot				0				0							О		
	Autophagy research															О		
	Cell cycle for Flow Cytometry				0		0		0									
	Cell proliferation for Flow Cytometry															О		
	Cell Proliferation for imaging				О								О					
	Cell viability for Flow Cytometry												0			0		
	Cytotoxicity	О		О			0						0					
	Oxidative stress detection																	
	Angiogenesis (tube formation assay)				0												0	
	Angiogenesis (ex vivo mouse aortic ring assay)				0													
	Angiogenesis (modified Boyden chamber assay, Marigel plug assay)				0												0	
Stem cell research	Induced pluripotent stem cells (iPS)																	
	Mesenchymal stem cells				0		0						0			0	0	
	Neural stem cells																	
	Hematopoietic stem cells						0						0					
Cell manipulation	Cell culture	0	0	0	0				0			0	0			0	0	
	Tranfecction			0	0				0			0				0	0	
	Primary culture fo endothelial cells from human cord																0	
Protein expression, purification & quantification	Immunoassays, ELISA	0			0							0	0			0		
	Immunoprecipitation				0				0			0				0		
	Co-immunoprecipitation				0							0				0		
	Chromosome-immunoprecipitation (ChIP)			0	0													
	Proteome analysis, 2D analysis												0					
	Protein enzyme assays & substrates																	
	Protein microarrays																	
	Protein purification, FPLC, HPLC				0													
	Antibody production																	
	Streptavidin magnetic beads																	
	siRNA				0				0	0						0	0	
RNAi system	miRNA analysis								0	0						0		
•	Vector-based RNAi																	
Animal work	Mouse handling			0									0			0		
	Autopsy, Organ-tissue sampling			0														
	Histology			0									0			0		
	Small animal in vivo imaging												0					
	Mouse genotyping			0														
	Mouse phenotype analysis			0												0		
	Preparation of mouse embryonic fibroblast (MEF) and immortalization																	
	Autoimmune disease animal model															0		
	Obesity animal model															0		
	Obesity animal model															U		

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DNA and RNA Work	Genome editing with engineered nucleases																	
	Single cell RNA-sequencing																	
	ChIP-sequencing																	
	Single cell DNA-sequencing																	
	Exome sequencing																	
	Next generation sequencing																	1
	PCR, RT-PCR, real time PCR			О	0				О	О		0						
	Molecular cloning			О	О				О	О		0				0	0	
	Site-directed mutagenesis			О	О				О			О					0	
	Reporter gene assay (Luciferase, b-galactosidase)			О	О				О							0		1
Electrophysiological Work	Intracellular recording														0			
	Patch-clamp technique : voltage-clamp and current-clamp recordings														0			
	Electroretinogram recording in fishes														0			1
Animal behavior Work	Optomotor response of fishes														0			
조직공학	Biodegradable polymeric scaffolds for MSCs												0					
	Immorbilization of ligand, growth factors and/or cytokines for enhancing												0					
비고	삼차원 암조직 배양 (구상체, 다층배양, histoculture)	0																
	Gene therapy															0		1
	Lentiviral vector mediated gene transduction/delivery, Protein							0										
	산화성 세포손상 기전 분석											, and the second		0				1
	세포배양 및 분화, 조직에서의 대사질환 관련 유전자 정량적 분석 및 조절	,	О				-											
	유전자 발현 조절		•			О	•				0							1
	세포사멸 분석	,	•				-				0							
	세포투과 재조합 단백질																	0