

Models/Materials	Cell lines	CHO cells stably transfected with adenosine receptors
		1321N1
		HEK 293
		COS 7
		CHO
		HEK 293 L9-2
		PC 3
		CHO cells stably transfected with D ₂ dopamine receptor
		HCT 116
		MDA-MB-231
		BT474
		SKBR3
		HEK 293-A _{2A}
		HEP G2
		Plasmids
	human Cysteinyl Leukotriene 1 receptor	
	human A ₁ adenosine receptor	
	human A _{2A} adenosine receptor	
	human A _{2B} adenosine receptor	
	human A ₃ adenosine receptor	
	human P2Y ₁ purinergic receptor	
	human P2Y ₂ purinergic receptor	
	human P2Y ₄ purinergic receptor	
	human P2Y ₆ purinergic receptor	
	human P2Y ₁₁ purinergic receptor	
	human P2Y ₁₂ purinergic receptor	
	human P2Y ₁₃ purinergic receptor	
	human P2Y ₁₄ purinergic receptor	
	Purinergic receptor ligands	Agonists and antagonists of A ₁ , A _{2A} , A _{2B} and A ₃ adenosine receptors
		GPR17 ligands
P2X3 agonists and antagonists		

	3D models of purinergic receptors	Structural models of A ₁ , A _{2A} , A _{2B} and A ₃ adenosine receptors
		Structural models of human and rat P2X1-7 purinergic receptors
Protocols and Methods	Cell culture	CHO cells stably transfected with adenosine receptors (binding assay, functional assay useful to quantify cAMP by luminescence)
		1321N1
		HEK 293
		COS 7
		CHO
		HEK 293 L9-2 (functional assay useful to quantify cAMP by luminescence)
		PC 3
		CHO cells stably transfected with D ₂ dopamine receptor
		HCT 116
		MDA-MB-231
		BT474
		SKBR3
		HEK 293-A2A
		HEP G2
		Biochemistry
	Gene expression	
	Immunohistochemistry	
	Molecular Biology (Plasmids)	rat P2Y ₁₃ purinergic receptor (functional assay useful to quantify cAMP by luminescence)
		human Cysteinyl Leukotriene 1 receptor
		human A ₁ adenosine receptor (functional assay useful to quantify cAMP by luminescence)
		human A _{2A} adenosine receptor (functional assay useful to quantify cAMP by luminescence)
		human A _{2B} adenosine receptor (functional assay useful to quantify cAMP by luminescence)
		human A ₃ adenosine receptor (functional assay useful to quantify cAMP by luminescence)
human P2Y ₁ purinergic receptor		
human P2Y ₂ purinergic receptor		
human P2Y ₄ purinergic receptor		
human P2Y ₆ purinergic receptor		
human P2Y ₁₁ purinergic receptor		

		human P2Y ₁₂ purinergic receptor (functional assay useful to quantify cAMP by luminescence)
		human P2Y ₁₃ purinergic receptor (functional assay useful to quantify cAMP by luminescence)
		human P2Y ₁₄ purinergic receptor (functional assay useful to quantify cAMP by luminescence)
	Receptor binding	
	Western blotting	
	Electrophysiology	
	Behaviour	
	Chemistry	Synthesis, Purification and Characterization of nucleoside, nucleotide and heterocycle derivatives as purinergic receptor agonists and antagonists
	Molecular modeling	Development of structural models of purinergic receptors (P1, P2Y and P2X)
In silico simulation of receptor-ligand interaction for both literature and in-house compounds		
In silico optimization of purinergic receptor ligands and drug design		
Non commercial antibodies	P1 receptors	
	P2 receptors	
Non commercial drugs		Agonists, antagonists, and partial agonists of P1 and P2 receptors; antiviral and antitumoral compounds
Biosamples	Human origin	
	Animal origin	