

Figure 1: Names and chemical structures of clinically used diphosphonates

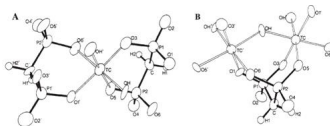


Figure 2: Crystal structure of MDP polymeric mixtures

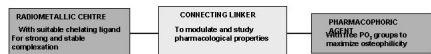


Figure 3: Schematic representation of the design principle for the target complexes

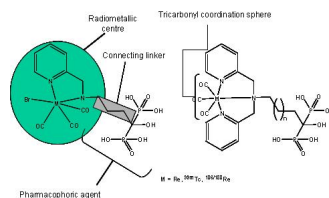


Figure 4: Generalized structures of target complexes

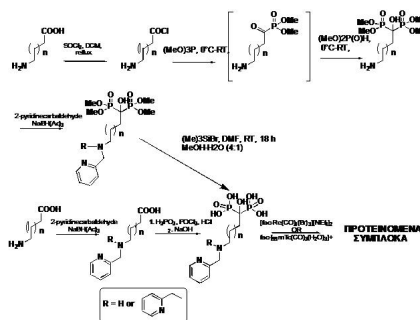
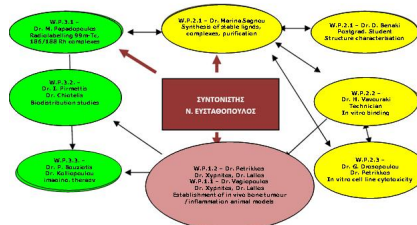


Figure 5: Synthetic strategies for ligand formation



**W.P.1.-53.000 € Personnel cost + 87.734
travel, publication**

This W.P. involves the establishment of trustworthy experimental animal models for inflammation/infection. For that purpose, and all co-investigators of Main (Efstathopoulos, Vagiopoulos, Petrikkos) will supervise, design, grow and follow-up the experiments required for statistical verification. Furthermore, two external collaborators will perform examinations and progress follow-up of the experiments, collection and analysis etc. The main cost has been allocated no extra wage packages. Personnel cost has been allocated for the external collaborators who will run the routine experimentation project. The main idea of personnel cost throughout the project is either very low additional wages or no wages for the main research group members. The project includes purchasing the experimental animals through the animal house facilities to grow and follow-up the experiments required, along with an incubator for cell culture and separate bacterial growth for infection triggering. Consumables, include animal cell line growing media, plates, Petri dishes, and cell lines. Travel expenses for participations have also been allocated.

Personnel cost (main team)

NAME	YEAR	MANMONTHS	FULL TIME
Efstathopoulos	2011	4	0
1.1, 1.2	2012	4	2/9 0
	2013	4	0

	2015	4	0
	total	20	0

Personnel cost (collaborators)

NAME	YEAR	MANMONTHS	FULL TIME
Xypnitos, MD, PhD, Ms Orthopedi cs Surgeon 1.1, 1.2	2011	6	1.00
	2012	6	1.00
	2013	6	1.00
	2014	6	1.00
	2015		
	total	24	
Kolliakou , MD, Msc, Ra diologist s Trainee 3.3	2011		
	2012	6	1.00
	2013	6	1.00
	2014	6	1.00
	2015	6	1.00
	total	24	
Lallos MD, Orthopedi cs Trainee 1.1, 1.2	2011	6	1.00
	2012	6	1.00
	2013	6	1.00
	2014	6	1.00
	2015		
	total	24	

W.P.2.-118.000 € personnel cost + travel, publication

The personnel cost of this W.P. is involvement of one technician, one post two external collaborators with ^{4/9} full workpackage involves also the cost rel

Personnel cost (main team)

NAME	YEAR	MANMONTHS	FULL TIME
Sagnou 2.1	2011	8	500
	2012	8	500
	2013	8	500
	2014	8	500
	2015		
	total	32	
Vavouraki 2.2	2011	4	500
	2012	6	500
	2013	6	500
	2014	6	500
	2015	2	500
	total	22	
Drosopoulou 2.3	2011	4	500
	2012	6	500
	2013	6	500
	2014	6	500
	2015	2	500
	total	24	
...			

Personnel cost (collaborators team)

Ονοματεπώνυμο όπου υφίσταται – ειδικότητα	Έτος	Ανθρωπομήνες (Α/Μ) αναγωγή σε πλήρους απασχόλησης (1)	Κόστος Α/Μ απασχόλησης (2)
Dr. Benaki,	2011	4	1.00
	2012	6	1.00
Biology PhD	2013	6	^{6/9} 1.00
	2014	6	1.00

Personnel cost (collaborators)

NAME	YEAR	MANMONTHS	FULL TIME
Dr. Chiotelis – Medical School PhD 3.1, 3.2 3.3	2011		
	2012	12	1.20
	2013	12	1.20
	2014		
	2015		
	TOTAL	24	

Category	2010	2011	2012	2013	2014	Total cost
1. Personnel Costs (Main Research Group)	13.000€	16.000€	19.000€	19.000€	11.000€	78.000€
2. Personnel Costs (External Collaborators)	22.000€	50.400€	50.400€	36.000€	20.000€	178.800€
3. Travel and Subsistence		1.500 €	1.500 €	3.000 €	3.000 €	9.000 €
4. Equipment/Hardware/Software Costs	45.000€	35.000€	20.000€			100.000 €
5. Consumables	30.000€	30.000€	30.000€	30.000€	30.000€	150.000 €
6. Office Consumables		500 €	500 €	500 €	500 €	2.000 €
7. Publicity Costs	1.100 €	1.100 €				2.200 €
8. Other duties						
Total cost						520.000 €

id	activity	YEAR					amount
		2011	2012	2013	2014	2015	
P.1	Establishment of in vivo inflammation/infection and bone tumor animal model	X	X	X	X	X	83 000 € personnel cost = 87 734 € equipment, consumable, travel, publication
	W.P.1.1: In vivo in vivo inflammation/infection animal models		X	X	X	X	
	W.P.1.2: In vivo bone tumor animal models	X	X	X	X	X	
	Synthesis, isolation and structure identification, in vitro evaluation	X	X	X	X	X	150 000 € personnel cost = 87 734 € equipment, consumable, travel, publication
	W.P.2.1: Synthesis, isolation and structure identification	X	X	X	X	X	
P.2	W.P.2.2: In vitro binding studies		X	X	X	X	
	W.P.2.3: In vitro cytotoxicity studies		X	X	X	X	
	Synthesis of wpc and wpc complexes,	X	X	X	X	X	85 000 € personnel cost = 87 734 € equipment,

