

	Objectives and tasks	IP	WL
<b>WP 1</b>	<b>Quantify the dose-differential effects of EGCG and QC on cell proliferation and mitochondrial metabolism in Jurkat T-cells</b>		<b>150</b>
T1	T1/1 Assessment of apoptosis/necrosis induced by EGCG/QC/MD/ROT T1/2 Assessment of clonogenic survival after treatments with EGCG, QC, MD and ROT T1/3 Evaluation of the effects of EGCG, QC, MD, ROT on the cell cycle T1/4 Evaluation of the effects of EGCG, QC, MD and ROT on the mitochondrial membrane potential T1/5 Evaluation of the effects of EGCG, QC, MD and ROT on the mitochondrial level of superoxide T1/6 Evaluation of the effects of EGCG, QC, MD and ROT on the intracellular level of NADH T1/7 Evaluating the effects of EGCG/QC/MD/ROT on the FMN level	3-36 3-36 3-36 12-36 6-36 3-36 6-36	35 20 25 20 20 15 15
M1	M1/1 Quantify the effects of EGCG/QC/MD/ROT on cell proliferation M1/2 Quantify the effects of EGCG/QC/MD/ROT on the mitochondrial metabolism	3-36 3-36	
<b>WP 2</b>	<b>Characterization of the Ca<sup>2+</sup> release capacity of EGCG/QC and/or MD in Jurkat T-cells</b>		<b>80</b>
T2	T2/1 Assess the Ca <sup>2+</sup> signal after exposure to EGCG/QC and/or MD T2/2 Assess the intracellular concentration of Ca <sup>2+</sup> after exposure to EGCG/QC and/or MD, in the presence of RYR3 inhibitors T2/3 Assess the kinetic variations in the intracellular concentration of Ca <sup>2+</sup> after exposure to EGCG/QC and/or MD in the presence of the Ca <sup>2+</sup> ionophore, ionomycin T2/4 Assess the kinetic variations in the intracellular concentration of Ca <sup>2+</sup> after exposure to EGCG/QC and/or MD in the presence of the Ca <sup>2+</sup> chelator, BAPTA/AM	2-36 2-36 6-36 12-36	20 20 20 20
M2	M2/1 Characterize the Ca <sup>2+</sup> signal induced by flavonoids and/or MD M2/2 Establish the dependence of the Ca <sup>2+</sup> release parameters on the dose of flavonoid and menadione M2/3 Establish the contribution of cytosolic and extracellular Ca <sup>2+</sup> in the	2-36 2-36 9-36	

	Ca <sup>2+</sup> release signal induced by flavonoids and/or MD M2/4 Investigate the involvement of RyR in the Ca <sup>2+</sup> release signal induced by flavonoids and/or MD M2/5 Quantify the relationship between the intracellular level of QC and the level of cytosolic Ca <sup>2+</sup> M2/6 Quantify the correlation between the Ca <sup>2+</sup> signal and apoptosis induced by flavonoids and/or MD	2-36 6-36 9-36	
<b>WP 3</b>	<b>Correlation between delayed luminescence and the mitochondrial metabolism</b>		<b>50</b>
T3	T3/1 Measure DL of cells treated with EGCG, QC, MD and ROT T3/2 Determine the DL quantum yield on three characteristics time scales T3/3 Correlation analysis	2-36 2-36	30 10 10
M3	M3/1 Quantify the correlation between DL and NADH M3/2 Investigate the correlation between DL and the mitochondrial membrane potential M3/3 Quantify the correlation between DL and the level of superoxide M3/4 Quantify the correlation between DL and FMN M3/5 Establish the DL dependence on the dose of chemical agent	6-36 9-36 6-36 12-36 12-36	
<b>WP 4</b>	<b>Management of the project, finances and training</b>		<b>20</b>
T4	T4/1 Seminar presenting the project framework T4/2 Documenting the scientific information T4/3 Optimization of experimental protocols T4/4 Scientific work stages in foreign Institutes T4/5 Annual and final meetings T4/6 Monitoring finances and progress T4/7 Research training for young researchers	1-3 1-3 1-9 2-36 3-36 1-36 1-36	1 2 3 10 1 1 2
M4	M4/1 Establish the scientific background of the project M4/2 Strengthening international collaborations M4/3 Intermediate and final reports M4/4 Personal career development plans	1-3 2-36 3-36 1-36	
<b>WP 5</b>	<b>Dissemination of the results</b>		<b>24</b>

T5	T5/1 Create/update the project dedicated website	1-36	2
	T5/2 Scientific seminars	3-36	3
	T5/3 Conference communication of the results	9-36	5
	T5/4 Scientific papers in ISI journals and in international databases	18-36	12
M5	M5/1 Scientific papers	9-36	
	M5/2 Posters and oral communications	9-36	
	M5/3 Website	3-36	