Project: PN-II-RU-TE-2011-3-0204

Title: Effects of polyphenols in modulating the relationship between ErbB proteins and cell cycle progression in breast and epidermoid adenocarcinoma

Legend: 1 = Work package (WP); 2 = Objectives; 3 = Time commitment (months); Tasks (T); Milestones (M)

1	2	3
WP1	Determine the correlation between ErbB protein expression levels and cell biology (cell cycle progression, apoptosis, viability) of tumor cells under polyphenol treatment on breast and epidermoid carcinoma cell lines	
T1	T1/1 Cell cycle progression under polyphenol treatments	1-12
	T1/2 Apoptosis and cell viability under polyphenol treatments	1-12
	T1/3 ErbB proteins, beta1-integrin, 67LR expression level – polyphenols effects	1-12
M1	M1/1 Correlation between ErbB proteins, beta1-integrin, 67LR expression level and cell cycle progression	12
	M1/2 Correlation between ErbB proteins, beta1-integrin, 67LR expression level and apoptosis or cell viability	12
WP2	Study ErbB association state using co-localization and Flow Cytometry Fluorescence Resonance Energy Transfer (FCET) techniques on polyphenols treated cancer cells	
T2	T2/1 ErbB2 – beta1-integrin or 67LR association using immunofluorescence studies/ co-localization, under polyphenol treatment	12-24
	T2/2 ErbB2 homoassociation using FCET method under polyphenol treatment	12-24
	T2/3 ErbB1 homoassociation using FCET method under polyphenol treatment	12-24
M2	M2/1 Dynamics ErbB2 – beta1-integrin or 67LR association	24
	M2/2 Dynamics of ErbB2 homoassociation	24
	M2/3 Dynamics of ErbB1 homoassociation	24
WP3	Monitor the effects of polyphenols on the activation status and signalling network of ErbB proteins on polyphenol-treated cancer cells	
T3	T3/1 ErbB activation status in quiescent cells	12-36
	T3/2 ErbB phosphorylation status on EGF/ Heregulin stimulated cells	12-36

	T3/3 PI3K/Akt phosphorylation status on quiescent cells	12-36
	T3/4 PI3K/Akt phosphorylation status on EGF/ Heregulin stimulated cells	12-36
M3	M3/1 Dynamics of ErbB-proteins and their signal transduction status on quiescent tumor cells under polyphenol treatment	36
	M3/2 Dynamics of ErbB-proteins and their signal transduction status on EGF/ Heregulin stimulated cells combined with polyphenol treatment	36
WP4	Management of the project, finances and training	
T4	T4/1 Scientific work stages in foreign Institutes	1-36
	T4/2 Annual and final meetings	1-36
	T4/3 Monitoring finances and progress	1-36
	T4/4 Development individual training for young researchers	1-36
M4	M4/1 Strengthening international collaborations	36
	M4/2 Intermediate and final reports	36
	M4/3 Minutes meetings	36
	M4/4 Personal career development plans	36
WP5	Increase the national and international visibility through dissemination of the results	
T5	T5/1 Creation and updating a dedicated website for the project	1-36
	T5/1 Scientific seminars	3-36
	T5/2 Communication of the results on conferences	3-36
	T5/3 Publishing the outcomes in ISI journals and other international databases	12-36
M5	M5/1 Website	36
	M5/2 Posters and oral communications	36
	M5/3 Scientific papers	36