

## Supervisor for Ph.D. and M.Sc –List of trainees and thesis

### I. Ph.D.

| Year | Name                 | Ph.D. thesis                                                                                                                                                                                                                        |
|------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2011 | Malavaki Christina   | Biochemical and cellular study of PDGF-R effects on functional macromolecules in breast cancer cells                                                                                                                                |
|      | Stachteia Xanthi     | Biochemical and molecular approach of the role of hyaluronan and collagen type Vi in cell lines from Down syndrome                                                                                                                  |
| 2009 | Dedes Petros         | Biochemical, cellular and molecular study of the effect of zolendronate acid in breast cancer cell lines and bone cells                                                                                                             |
| 2007 | Kanakis John         | Study and evaluation of biochemical markers and bioeffective macromolecules in metastatic bone disease                                                                                                                              |
|      | Kousidou Olga        | Biochemical and cellular study of estrogen receptors-mediated cell signaling in breast cancer                                                                                                                                       |
| 2006 | Roussidis Andreas    | Biochemical, cellular and molecular study of gene expression and intracellular signaling of c-kit $\kappa$ 1 PDGF-R in breast cancer. Their evaluation as potential molecular targets and effects of the molecular inhibitor STI571 |
| 2005 | Militsopoulou Maria  | Biochemical approach of the interactions between growth factors and proteoglycans in molecular and cellular level in breast cancer                                                                                                  |
| 2004 | Mitropoulou Theoni   | Biochemical and pharmacological study in breast cancer cell lines: effects of molecular inhibitors in gene expression of matrix macromolecules and cell proliferation                                                               |
| 2003 | Noulas Argiris       | Macromolecular composition of vitreous body: special reference to aggregative proteoglycans and the structure of glycosaminoglycans                                                                                                 |
| 2000 | Theocharis Achilleas | Study of proteoglycans from human abdominal aortic aneurysm using biochemical, immunohistochemical and molecular biology techniques                                                                                                 |
|      | Lamari Fotini        | Development of an immunoenzyme methodology and study of <i>in vivo</i> effect of immunoglobulins against bacterial polysaccharide antigens                                                                                          |
| 1998 | Syrokou Alexandra    | Study of glycosaminoglycans and proteoglycans in malignant mesothelioma                                                                                                                                                             |

### II. M.Sc.

#### *M.Sc. in Applied Biochemistry - Biotechnology*

| Year | Name                   | M.Sc. thesis                                                                                                                     |
|------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2011 | Zafeiropoulou Vasiliki | Modification and application of FACE to the determination of chondroitin sulfate sulfation in blood serum                        |
|      | Markellou Christina    | Application of FACE to analysis and structural characterization of chondroitin sulfate and hyaluronan in cell culture media      |
| 2010 | Tsonis Anastasios      | Study of the cross-talk of estrogen receptors with EGFR $\kappa$ 1 IGF-IR in the expression of matrix molecules in breast cancer |
|      | Ellina Maria-Ioanna    | Study of biochemical markers for the evaluation of the effects of bisphosphonates in bone metastasis                             |

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|------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2009 | Gialeli<br>Chrisostomi   | Correlation of the activation of EGFR with the expression of metalloproteinases, cell proliferation and cell migration in colon cancer                                                                        |
|      | Kallimani<br>Evangelia   | Applications of multiplex analysis in biologic samples                                                                                                                                                        |
| 2007 | Malavaki<br>Christina    | Development of a biochemical methodology for charge density distribution of chondroitin sulfate and identification of hyaluronan in biologic samples, pharmaceutical preparations and nutritional supplements |
| 2006 | Asimakoulou<br>Athanasia | Development and evaluation of a biochemical analysis of chondroitin sulfate and its disaccharides in blood serum                                                                                              |
|      | Mania Vasiliki           | Characterization of glycosaminoglycans in heterotopic ossification                                                                                                                                            |
| 2005 | Stahtea Xanthi           | <i>In vitro</i> effect of the specific tyrosine kinase inhibitor STI571 in colon cancer cell lines                                                                                                            |
|      | Koukounari Maria         | <i>In vitro</i> effect of the tyrosine kinase inhibitor genistein in gene expression of proteoglycans and growth of breast cancer cells                                                                       |
| 2004 | Krevvata Maria           | Study of the role of the extracellular polysaccharide of <i>Staphylococcus epidermidis</i> and its specific antibodies in the development of biofilm and resistance in antibiotics                            |
| 2003 | Kousidou Olga            | Study of the gene expression of metalloproteinases (MMPs) and their endogenous tissue inhibitors (TIMPs) in breast cancer                                                                                     |
|      | Kanakis John             | Biochemical and immunologic characteristics of multiple sclerosis and monoclonal gamma-immunodisorder                                                                                                         |
| 2000 | Giakoumaki<br>Aimilia    | Study of biochemical markers related with the development of atherosclerosis                                                                                                                                  |
| 1998 | Diamantoulou<br>Sotiria  | Biological role and diagnostic significance of sialic acids with emphasis in endometrial cancer                                                                                                               |

***M.Sc. in Medicinal Chemistry: Design and development of pharmaceutical products***

| Year | Name                        | M.Sc. thesis                                                                                                        |
|------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| 2005 | Karathanasopoulou<br>Ioanna | Characterization and determination of antioxidants in biologic specimens                                            |
| 2004 | Katsara Maria               | Biological evaluation of MBM peptide analogues conjugated with mannan: new approach in MS immunotherapy             |
| 2003 | Zouridakis Marios           | Effect of certain mutations of 18S rRNA in the operation of eukaryotic ribosome                                     |
|      | Karkoulias George           | Role of $\alpha_2$ adrenergic receptors in survival of PC12 cells                                                   |
| 2002 | Dimitrellos Vassilis        | Development of a biochemical method for the study of interaction between a synthetic heparin proteoglycan with bFGF |
|      | Stavropoulou<br>Chrisanthi  | Capillary electrophoretic analysis of glycoproteins for MS diagnosis                                                |
| 2001 | Katsougraki Pigi            | Study of electrophoretic migration of immunoglobulins with capillary electrophoresis                                |
|      | Mastrogianni<br>Orthodoxia  | Application of micellar electrokinetic capillary chromatography to the analysis of glycosaminoglycans               |

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|-------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2000</b> | Mitropoulou Theoni | Isolation, structural composition and comparison of glycosaminoglycans from uterine fibroids and myomitrium                                                                |
|             | Tzovolou Dimitra   | Development of a capillary electrophoretic method of the $\alpha$ 2-adrenergic agonist brimonidine in aqueous humor and blood serum and correlation of its levels with IOP |