The 13 UPAT Faculty members that participate in **SEE-DRUG** are affiliated with the Departments of Pharmacy, Medicine, Chemistry and Biology. They combine a publication record comprised of **650 publications**, **25** published **patents** and **>14000 citations**.

Department of Pharmacy

- **Dr. Georgios A. Spyroulias**, Assoc Prof. Expertise: NMR Spectroscopy, Protein production & characterisation, Structural Biology, Biomolecular Simulations.
- **Dr. Konstantinos Poulas**, Assist. Prof. Expertise: Protein production & characterisation, X-ray Crystallography, Molecular modelling and Bioinformatics.
- **Dr. George P. Patrinos**, Assist. Prof. Expertise: Human genomics, pharmacogenomics, Bioinformatics and genetic databases.

Recent publications

1. Borg J, Georgitsi M, Patrinos GP, Philipsen S et al. **Nature Genet** 42, 801-5 (2010)
2. Dalkas GA, Chassapis C, Spyroulias GA et al. **Biochemistry** 49, 10767-9 (2010)
3. Georgitsi M, Poulas K, Tzimas G, Patrinos GP et al. **Nucleic Acids Res** 39(Database issue), D926-32 (2011)
4. Abriata LA, Banci L, Bertini I, Gkazonis P, Spyroulias GA, et al. **Nature Chem Biol** 4, 599, (2008)
5. Chen Z, Luo HY, Patrinos GP, et al. **Mol Cell Biol** 28, 4386-93, (2008)

6. Banci L, Kandias NG, Robinson NJ, Spyroulias GA, et al. **Proc Natl Acad Sci USA** 103, 8320, (2006)

- **Prof. Andreas Papapetropoulos**, , Prof. Expertise: Cellular Signalling, Protein-Protein Interactions, Cardiovascular Pharmacology, Inflammation, Pre-clinical drug screening & Development
- **Dr. StavrosTopouzis**, Assist. Prof. Expertise: use of preclinical, cell-based (in vitro) and animal-based (in vivo) models, for the study of human fibroproliferative and inflammatory diseases.

Recent publications

1. Papapetropoulos A, Pyriochou A, Altaany Z, Yang G, Marazioti A et al. **Proc Natl Acad Sci USA** 106:21972-7 (2009)
2. Zhou, A. Pyriochou, A. Kotanidou, G. Dalkas, M.V. Eickels, G. Spyroulias, C. Roussos C and Papapetropoulos **A. Am J Physiol Heart Circ Physio**l. 295:H1763-71 (2008)
3. G. Haramis, Z. Zhou, A. Pyriochou, M. Koutsilieris, C. Roussos and A. Papapetropoulos. **Br J Pharmacol.** 155:804-13 (2008)
4. Z. Zhou, S. Gross, C. Roussos, S Meurer, W. Müller-Esterl and A. Papapetropoulos. **J. Biol. Chem** . 279:24935-24943, (2004)
5. Dillon SR, Topouzis S et al. **Nature Immunol**, 5, 752-760 (2004)
6. Papapetropoulos A, Zhou Z, Gerassimou C, Yetik G, Venema RC, Roussos C, et al. **Mol Pharmacol.** 68:1133-41 (2005)

Department of Medicine

- **Nicholas Moschonas**, Prof. in Biology & Medical Molecular Genetics, expertise: protein production in bacteria and animal cells, gene expression and functional analysis of proteins, in vitro and cell-based assessment of protein-protein interactions
- **Zoi Lygerou**, Assistant Professor in Biology, expertise: functional imaging, protein analysis in human cells and yeast, systems biology

Recent publications

1. De Marco V, Lygerou Z, Taraviras S, Perrakis A. et al. **Proc Natl Acad Sci USA**, 106:19807-12 (2009)
2. Lygeros J, Nurse P, Lygerou Z. et al. **Proc Natl Acad Sci USA**, 105:12295-12300 (2008)
3. G. Xouri, Taraviras S, Bastiaens PIH, Lygerou Z. et al. **EMBO J**, 26:1303-1314 (2007)
4. P. Deloukas, M. Kokkinaki, T. Sarafidou, N. K. Moschonas et al. **Nature**, 429, 375-381 (2004)
5. H. Nishitani, Z. Lygerou, T. Nishimoto, P. Nurse. Nature 404:625-8 (2000)
6. Z. Lygerou, P. Nurse P **Science** 290:2271-3 (2000)

- **Stavros Taraviras**, Assistant Professor in Molecular and Cellular Pharmacology, Expertise: generation and analysis of genetically modified mice, isolation and culturing of embryonic haematopoietic and neural stem/progenitor cells, protein expression in different systems, biochemical characterisation of protein complexes, determination of gene and protein expression, live-cell imaging techniques.

Recent publications

1. Karamitros D, Kioussis D, Taraviras S et al. **J Immunol** 184:2432-41 (2010)
2. De Marco V, Lygerou Z, Taraviras S, Perrakis A. et al. **Proc Natl Acad Sci USA** 106:19807-12 (2009)
3. Lygerou Z, Taraviras S, Papavassiliou AG, et al. **Cancer Res**. 67:10899-909 (2007)
4. Roukos V, Taraviras S, Lygerou Z et al. **J. Biol. Chem**, 282:9346-9357 (2007)
5. G. Xouri, Taraviras S, Bastiaens PIH, Lygerou Z. et al. **EMBO J**, 26:1303-1314 (2007)
6. Bravou V, Taraviras S, et al. **J Pathol.** 208:91-9 (2006)

Department of Chemistry

- **John Matsoukas**, Professor in Organic Chemistry. Expertise: Organic, Peptide synthesis and Characterization of Bioactive Molecules, Structure-Activity Relationship Studies.
- **Theodore Tselios**, Assistant Professor in Organic Chemistry. Expertise: Rational Design, Synthesis & Characterization of Bioactive Molecules, Biomolecular and Docking Simulations.
- **Alexios Vlamis-Gardikas**, Assistant Professor in Biochemistry, is a recently appointed faculty member. Expertise: Overexpression and purification of recombinant proteins, protein-protein interaction analysis, bacterial genetics, molecular biology, enzyme assays (especially those related to antioxidant enzymes).

Recent publications

1. Katsara M, Tselios T, Matsoukas J, Apostolopoulos V et al. **J Med Chem.** 52:214-8 (2009).
2. Deraos G, Tselios T, Apostolopoulos V, Matsoukas J. et al. **J Med Chem.** 51:7834-4 (2008).
3. Spyranti Z, Matsoukas JM, Tselios TV et al. **J Med Chem**. 50:6039-47 (2007).

4. Keramida MK, Tselios T, Matsoukas J. et al. **J Med Chem**. 49:105-10 (2006).
5. Fernandes AP, Vlamis-Gardikas A. et al **J Biol Chem**. 280:24544-52 (2005).
6. Fladvad M, Vlamis-Gardikas A, Sunnerhagen M et al. **J Biol Chem**. 280:24553-61 (2005).

Department of Biology

- **Kostas Flytzanis**, Assoc. Prof. in Cell Biology expertise: gene regulation in early embryonic development of the sea urchin Paracentrotus lividus, study of the transcription factors and SAR studies on nuclear receptors (e.g. COUP-TF; Chicken Ovalbumin Upstream Promoter–Transcription Factors)
- **Irene Margiolaki**, Lecturer in Structural Biology, Is a recently elected faculty member; expertise: in method development and application of Crystallography & Structural Biology. Extensive knowledge of powder and single crystal diffraction, structure determination, model building, refinement, and skills in Small Angle X-ray Scattering, optical/electron microscopy etc.

Recent publications

1. Ahnfeldt T, Margiolaki I et al. Angew **Chem Int** Ed 48:5163-5166 (2009).
2. Miller SR, Margiolaki I et al. **J Am Chem Soc** 130:15967-81 (2008).
3. Margiolaki I, Wright JP, Wilmanns M, Fitch AN, Pinotsis N. **J Am Chem Soc** 129:11865-71 (2007).
4. Sea Urchin Genome Sequencing Consortium (Flytzanis CN et al.) **Science** 314:941-952 (2006).
5. Férey G, Mellot-Draznieks C, Serre C, Millange F, Dutour J, Surblé S, Margiolaki I **Science** 309: 2040-2 (2005).
6. Konstantopoulos AK, Flytzanis CN **Mol Repro & Dev**. 60:147-157 (2001).