

Dr. Thanassis Tartas
Biologist, MSc, PhD
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Education

1990 B.Sc. in Biology

Department of Biology, Aristoteleion University of Thessaloniki

1998 M.Sc. in Molecular Biology

Department of Biology, University of Crete
IMBB, FORTH

2009 Ph.D. in Biochemistry

Department of Chemistry, University of Patras
Institute of Biology, NCSR “Demokritos”

Laboratory expertise

Molecular Biology

Standard gene techniques cloning in both bacteria and yeast.

Biochemistry

Protein expression & overexpression in several systems; tagged protein methods; standard methods of protein purification; protein biochemical characterization; liquid chromatography (affinity, ion exchange, gel filtration); hydrophobic protein handling techniques.

Standard crystallization techniques

Hanging drop, sitting drop & seeding techniques.

Circular Dichroism spectroscopy

Data collection; interpretation of protein and peptides CD spectra.

Computational skills

***In silico* protein structure analysis**

Protein modelling, energy minimization, molecular dynamics simulation.

Programming

Languages: BASIC, FORTRAN, Python.

Software

NAMD, MOE, Schrodinger suite, GROMACS, CCP4 package, AutoDock, PyMOL, Origin, MatLab.

Research experience

Partially unfolded protein; Coupled binding and folding; Protein structure study with CD spectroscopy; Software development for protein mapping and post- molecular dynamics analysis.

Research interests

Protein mapping; Native unfolded proteins; intrinsic protein motion; Protein recognition, binding and molecular docking; *In silico* drug design.
Software development for all the above.