Evangelos Papadopoulos, Ph.D.
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Professional Summary

Accomplished research scientist with extensive experience in oncology, structural biology, and computational drug discovery. Proven expertise in high-throughput screening, gene editing technologies, and the design of novel therapeutic molecules. Passionate about advancing genomic medicine and translating complex biological insights into impactful healthcare solutions.

Professional Experience

Research Scientist

Dana Farber Cancer Institute | Boston, MA | 2020 – Present

- Led research on disease-relevant mutations in multiple myeloma and breast cancer using CRISPR/Cas9 and bioinformatics.
- Conducted high throughput docking of millions of compounds for novel drug discovery and repurposing.
- Managed a team to perform DNA cloning, cell culture, and drug assays, ensuring experimental precision and reproducibility.
- Visualized protein structures to assess mutation impacts and align findings with FDA-approved therapies.

Senior Scientist

Stablix Inc. | New York, NY | 2021 – 2023

- Designed bifunctional chemical molecules for targeted de-ubiquitination therapies.
- Implemented high-throughput virtual screens, docking 5 million compounds to identify novel binding pockets.
- Collaborated with cross-functional teams to optimize workflows for protein purification and drug assays.
- Curated extensive ELN databases, ensuring traceability for thousands of experimental results.

Research Scientist

PIC Therapeutics | Boston, MA | 2017 – 2020

- Developed protein translation inhibitors as cancer therapeutics, including testing on diverse cell lines.
- Docked over 100 million compounds to crystal structures, advancing small molecule drug development.
- Partnered with CROs to optimize assay pipelines, accelerating discovery timelines.

Research Scholar

Harvard Medical School | Boston, MA | 2009 – 2017

- Conducted structural biology research on protein translation initiation inhibitors using NMR and X-ray crystallography.
- Published groundbreaking findings, including the first structure of eIF4E with a novel drug (PDB Molecule of the Month).
- Designed and tested PROTAC analogs to inhibit oncogenic proteins.

Education

Post Doctoral in Molecular Biology
Beth Israel Deaconess Medical Center | Boston, MA | 2008-2009

PhD in Biophysics
Stockholm University | Stockholm, Sweden | 2008

MSc in Biophysics
Stockholm University | Stockholm, Sweden

MSc in Applied Physics
National Technical University of Athens | Athens, Greece

Bachelor diploma in Physics
Kapodistrian University of Athens | Athens, Greece

Key Skills

- Computational drug design and virtual screening (ZINC, ENAMINE, MCULE)
- High-throughput assay development and execution (SPR, MST, ITC, ASMS, DEL)
- Structural biology techniques (NMR, X-ray crystallography, AlphaFold)
- Gene editing technologies (CRISPR/Cas9) and bioinformatics pipelines
- Cross-disciplinary project leadership and team management

Publications and Awards

- Multiple peer-reviewed publications on oncology and drug discovery (e.g., *PNAS*, *Nature Communications*). https://orcid.org/0000-0003-4050-4521
- Recognized with the PDB Molecule of the Month for contributions to structural biology. http://pdb101.rcsb.org/motm/230

Nonprint Materials

- NMR constraints [Script Library]. Stockholm (SE); 2006 https://pymolwiki.org/index.php/Nmr_cnstr
- NMR solution structure of peptide from Doppel protein, in DHPC micelles. https://evanspap.w3spaces.com/
- GitHub scripts for Computational Structural Biology: https://github.com/evanspap/

Professional References

- Gerhard Wagner, Ph.D., Harvard Medical School.,
  Elkan Blout Professor of Biological Chemistry and Molecular Pharmacology.
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- Bertal H. Aktas, D.V.M., Ph.D., Brigham and Women's Hospital.
  Assistant Professor of Medicine.
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- Astrid Gräslund, Stockholm University
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