

# CURRICULUM VITAE

## MARIA KALLI

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1002487	10A Savva Mourouzide Street, 1026, Nicosia	+357-99361222	mkalli02@ucy.ac.cy	20.06.1992

### ***EDUCATION***

***Present:*** PhD candidate in Biomedical Engineering, Department of Mechanical Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, under supervision of Dr. Triantafyllos Stylianopoulos ([tstylian@ucy.ac.cy](mailto:tstylian@ucy.ac.cy)).

***June 2014:*** BSc in Biological Sciences, Department of Biological Sciences, Faculty of Pure and Applied Sciences, University of Cyprus.

[final grade 8.39/10]

***June 2010:*** Pallouriotissa Lyceum graduate.

[final grade 19.6 /20]

### ***LAB EXPERIENCE***

***September 2014-Present:*** Cancer Biophysics Laboratory, Department of Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, under supervision of Dr. Triantafyllos Stylianopoulos ([tstylian@ucy.ac.cy](mailto:tstylian@ucy.ac.cy)).

Research Project Title: “Elucidation of the effect of solid stress on fibroblasts and cancer cells behavior in pancreatic cancers”.

Lab techniques: Cell culture, DNA/RNA isolation, Real-Time PCR, Western Blotting, immunofluorescence and immunohistochemistry, Gene cloning, transient transfection assays, cell proliferation assays, *in vitro* cell migration assays, ELISA assays.

***June 2016-August 2017:*** Research Assistant at European University Cyprus, Department of Life Sciences, School of Sciences, under supervision of Assistant Professor Dr. Panagiotis Papageorgis ([p.papageorgis@euc.ac.cy](mailto:p.papageorgis@euc.ac.cy)).

Research project title: “Elucidation of the signaling mechanisms that promote IL13R $\alpha$ 2-mediated breast cancer metastasis”.

Lab techniques: Cell culture, DNA/RNA isolation, PCR, Real-Time PCR, Western Blotting, Histology, Gene cloning, lentiviral-mediated gene transduction and shRNA delivery.

**June 2013-June 2014:** Epigenetics Laboratory, Department of Biological Sciences, Faculty of Pure and Applied Sciences, University of Cyprus, Teacher Assistant Dr. Antonis Kirmizis ([kirmizis@ucy.ac.cy](mailto:kirmizis@ucy.ac.cy)).

Research Project Title: “Identifying regulators of histone arginine methylation using a Global Proteomic Screen in *Saccharomyces cerevisiae*”.

Lab techniques: Yeast cell culture, DNA/RNA isolation, Western Blotting, PCR.

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## ***TEACHING EXPERIENCE***

**June 2016-August 2017:** Training and co-supervision of 4 Undergraduate students.

**January 2016-June 2017:** Teaching Assistant in the course “Chemistry for Engineers”, Department of Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, Professor Dr. Theodora Krasia ([krasia@ucy.ac.cy](mailto:krasia@ucy.ac.cy)).

**September 2016-January 2016:** Teaching Assistant in the course “Thermodynamics”, Department of Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, Professor Dr. Stavros Kassinos ([kassinos@ucy.ac.cy](mailto:kassinos@ucy.ac.cy)).

**January 2015-June 2015:** Teaching Assistant in the course “Chemistry for Engineers”, Department of Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, Professor Dr. Theodora Krasia ([krasia@ucy.ac.cy](mailto:krasia@ucy.ac.cy)).

**September 2014-January 2015:** Teaching Assistant in the course “Introduction to Electromagnetism and Wave”, Department of Engineering and Manufacturing, Faculty of Engineering, University of Cyprus, Professor Dr. Ioannis Giapintzakis ([giapintz@ucy.ac.cy](mailto:giapintz@ucy.ac.cy)).

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## ***PUBLICATIONS***

- Gkretsi V., **Kalli M.**, Efstathiades C., Papageorgis P., Papanikolaou V., Zacharia L.C., Tsezou A., Athanassiou E., Stylianopoulos T. Depletion of Ras Suppressor-1 (RSU-1) promotes cell invasion of breast cancer cells through a compensatory upregulation of a truncated isoform (Under Review).
- **Kalli M.**, Mpekris F. and Papageorgis P. Inhibin A (INHBA) promotes IL13Ra2-mediated breast cancer metastasis. (Under Review).
- **Kalli M.**, P. Papageorgis, V. Gkretsi and T. Stylianopoulos. Solid stress facilitates fibroblast activation to promote pancreatic cancer cell migration. *Annals of Biomedical Engineering* 2018; [10.1007/s10439-018-1997-7](https://doi.org/10.1007/s10439-018-1997-7).

- **Kalli M.** and T. Stylianopoulos. Defining the role of solid stress and matrix stiffness in cancer cell proliferation and metastasis. *Frontiers in Oncology* 2018; [10.3389/fonc.2018.00055](https://doi.org/10.3389/fonc.2018.00055).
- Mpekris F., P. Papageorgis, C. Polydorou, C. Voutouri, **M. Kalli**, A.P. Pirentis and T. Stylianopoulos. Sonic-hedgehog pathway inhibition normalizes desmoplastic tumor microenvironment to improve chemo- and nanotherapy. *Journal of Controlled Release* 2017; [10.1016/j.jconrel.2017.06.022](https://doi.org/10.1016/j.jconrel.2017.06.022).

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### ***CONFERENCES***

- The role of solid stress in tumor-stromal interactions. 25th Biennial Congress of the European Association For Cancer Research; 1-3 July 2018, Amsterdam, Netherlands. (Poster Presentation).
- The implication of solid stress in fibroblast activation and tumor-stromal crosstalk. 8th World Congress of Biomechanics; 8-12 July 2018, Dublin, Ireland. (Podium Presentation).

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### ***HONORS AND AWARDS***

1-year Scholarship Grant given by University of Cyprus to Doctoral Students.

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### ***SKILLS***

#### Languages:

- Greek at excellent level (native).
- English at very good level, International General Certificate of Secondary Education (IGCSE) grade B.

#### Computer Skills:

- Fluent in Microsoft Office Word, Excel, Power Point, Image J, Photoshop.