

Curriculum Vitae

Panagiotis Papageorgis

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EDUCATION

- **Doctor of Philosophy**, Cell and Molecular Biology/Genetics and Genomics, Boston University School of Medicine, 2009.
- **Bachelor of Science**, Biology, National and Capodistrian University of Athens, 2003.

ACADEMIC/TEACHING EXPERIENCE

Work Experience

- Military service - Officer in the Artillery, Ministry of Defence, Cyprus (1996-1998).

Research experience

- Research work as a Senior Scientist at the University of Cyprus (Jan. 2014 – to date)
- Research work as a visiting scholar at Massachusetts General Hospital/ Harvard Medical School (Sept. 2014 – Oct. 2014)
- Research work as a Post-doctoral fellow at the University of Cyprus (October 2010 – Dec. 2013)
- Research work as a visiting scholar at Boston University School of Medicine (February 2012 – June 2012)
- Research work as a Post-doctoral fellow at Boston University School of Medicine (January 2009 – July 2010).
- Research work as a PhD candidate at Boston University School of Medicine. Research title: “The role of Smad signaling in cancer progression” (Jan. 2004 – Dec. 2008).
- Research work during undergraduate diploma thesis at University of Athens, Department of Biochemistry and Molecular Biology. Research title: “Purification and biochemical characterization of an endogenous inhibitor of L-Dopa decarboxylase” (2001–2002).

Teaching experience

- Assistant Professor of Molecular Biology, European University of Cyprus, Sept. 2014 – to date.
- Part-time Lecturer of “General Biology I” and “General Biology II” courses, University of Nicosia 2012-2014.
- Part-time Lecturer of “Cell Biology” course, University of Nicosia 2013-2014

- Part-time Lecturer of “Human Molecular Genetics” and “Cancer Biology” courses, University of Nicosia 2011-2012.
- Co-lecturer of “Epigenetics” course, University of Cyprus, 2010-2014.
- Training and supervision of 1 Undergraduate, 3 Master’s and 10 PhD students (2005-to date).
- Teaching assistant for “Principles of Genetics” course, Boston University School of Medicine, 2006.

Research skills

Gene cloning, mammalian normoxic and hypoxic cell culture techniques, expression and isolation of recombinant fusion proteins using bacterial systems, retroviral and lentiviral-mediated stable gene transduction, lentiviral-mediated stable gene knock-down by shRNA, transient transfection assays, dual-luciferase reporter assays, western blotting, nuclear and cytoplasmic cell fractionation, PCR, RT-PCR, real-time PCR, methylation specific PCR, quantitative-methylation specific PCR, bisulfite sequencing, methyl-DNA immunoprecipitation assays, chromatin immunoprecipitation assays, co-immunoprecipitation assays, cell proliferation assays, *in vitro* cell migration and invasion assays, zymogram assays, ELISA assays, immunohistochemistry and immunofluorescence, FACS, gene expression microarray techniques and analysis, *in vivo* tumorigenesis assays by orthotopic and subcutaneous injections and *in vivo* metastasis assays in immunodeficient mice, whole-body *in vivo* bioluminescence imaging using the IVIS system.

Professional memberships

- Associate member of the American Association for Cancer Research (AACR): 2011-to date.
- Associate member of the European Association for Cancer Research (EACR): 2012-to date.

Other skills

- Computer and software skills (Word, Excel, PowerPoint, Image J, Photoshop, Chromas, SDS, Ingenuity Pathway Analysis, Oncomine, Living Image etc)
- Organizing and managing lab ordering and financial expenses.

AWARDS

- First prize for the Henry I. Russek Student Achievement Award for “dedication and outstanding performance” at Boston University School of Medicine – Boston, 2007.
- Second prize for the Henry I. Russek Student Achievement Award for “dedication and outstanding performance” at Boston University School of Medicine – Boston, 2006.
- Honourable mention for the Evans Research Day of the Department of Medicine at Boston University School of Medicine – Boston, 2006.
- First prize for the “Outstanding poster award competition” at the Genetics and Genomics department 3rd annual retreat – Cape Cod, 2005.

CONFERENCE ORAL PRESENTATIONS / POSTERS

- **Papageorgis P.**, Tzatsos A., Thiagalingam S. and Constantinou A.I. Identification of IL13RA2 as a critical mediator of metastasis in a human triple negative breast cancer model. Breakthrough Triple Negative Breast Cancer Conference, London UK, 2013.
- **Papageorgis P.**, Thiagalingam S. and Constantinou A.I. Integrating transcriptomic and genetic approaches to identify novel mediators of breast cancer metastasis. Progress in combination therapy of cancer using novel immunomodulators, Inspire Conference, Athens, Greece, 2012.
- **Papageorgis P.**, Thiagalingam S. and Constantinou A.I. Integrating transcriptomic and genetic approaches to identify novel mediators of breast cancer metastasis. 22nd Congress of European Association of Cancer Research (EACR), Barcelona, Spain, 2012.
- **Papageorgis P.** Epigenetic regulation of breast cancer progression and metastasis. 4th annual meeting of Cyprus Society of Human Genetics, Nicosia, Cyprus, 2011.
- **Papageorgis P.** and Thiagalingam S. Epigenetic regulation of breast cancer progression. 5th Era of Hope meeting, Baltimore, USA, 2008.
- **Papageorgis P.**, Pan H., Russo A. and Thiagalingam S. “Molecular network aberrations define subtypes of non-small cell lung cancer”. 70th Cold Spring Harbor Symposium on Quantitative Biology-Molecular approaches to controlling cancer, Long Island, USA, 2005.

PEER-REVIEWED PUBLICATIONS

Research articles: (in chronological order)

Total citations: 527 (Google Scholar, as of 31/10/2014).

h-index: 7

1. **Papageorgis P.***, Ozturk S., Lambert A.W., Tzatsos A., Neophytou C.M., Wong C.K., Thiagalingam S. and Constantinou A.I. Targeting IL13RA2 suppresses breast cancer metastasis via activation of a STAT6-p63 pathway. (submitted)
*corresponding author
2. Lambert A.W., Ozturk S., **Papageorgis P.**, Alekseyev, A., Gower A., Abdolmaleky H.M. and Thiagalingam S. Periostin regulates cytokine production to maintain breast cancer stem cells. (submitted)
3. Ozturk S., **Papageorgis P.**, Lambert A.W., Alekseyev Y., Lenburg M., Cohen H.T., Abdolmaleky H. and Thiagalingam S. SDPR functions as metastasis suppressor in breast cancer by promoting apoptosis. *PNAS* (in revision).
4. **Papageorgis P.** and Stylianopoulos T. TGF β in the tumor microenvironment and regulation of drug delivery. *Int. J. of Oncol.* (submitted) IF: 2.66
5. **Papageorgis P.*** TGF β signalling in tumor initiation, epithelial-to-mesenchymal transition and metastasis. *J. Oncol.* (in press) *corresponding author

6. Voutouri C., Mpekris F., **Papageorgis P.**, Odysseos A.D. and Stylianopoulos T. Effect of constitutive behaviour and interaction with the host tissue on the state of stress and growth of solid tumors. *PLoS One*. 2014; 9(8):e104717 (IF: 3.53)
7. Neophytou C., Constantinou C., **Papageorgis P.** and Constantinou A.I. D-alpha-tocopheryl polyethylene glycol succinate (TPGS) induces cell cycle arrest and apoptosis selectively in survivin-overexpressing breast cancer cells. *Biochem. Pharmacol.* 2014; 89:31-42 (IF: 4.57)
8. Pitta C., **Papageorgis P.**, Charalambous C. and Constantinou A.I. Reversal of ER- β Silencing by Chromatin Modifying Agents Overrides acquired tamoxifen resistance. *Cancer Letters* 2013; 337:167-76 (IF: 4.24)
9. Abdolmaleky H.M., Yaqubi S., **Papageorgis P.**, Lambert A.W., Ozturk S., Sivaraman V. and Thiagalingam S. Epigenetic dysregulation of HTR2A in the brain of patients with schizophrenia and bipolar disorder. *Schizophr Res.* 2011; 129:183-90 (IF: 4.75)
10. **Papageorgis P.**, Cheng K.H., Ozturk S., Gong Y., Lambert AW., Abdolmaleky H.M., Zhou JR. and Thiagalingam S. Smad4 inactivation promotes malignancy and drug resistance of colon cancer. *Cancer Res.* 2011;71:998-1008. (IF: 8.65)
11. **Papageorgis P.**, Lambert A.W., Ozturk S., Jia X., Gao F., Pan H., Manne U., Alekseyev Y., Thiagalingam A., Lenburg M., Abdolmaleky H., and Thiagalingam S. Smad signaling is required to maintain epigenetic gene silencing during breast cancer progression. *Cancer Res.* 2010;70: 968-78. (IF: 8.65)
12. Gao, F., Ponte J. F., **Papageorgis P.**, Levy M., Ozturk S., Lambert A.W., Pan H., Chinnappan D., Cheng K. H., Thiagalingam A., Abdolmaleky H. M. and Thiagalingam S. hBub1 deficiency triggers a novel p53 mediated early apoptotic checkpoint pathway in mitotic spindle damaged cells. *Cancer Biology & Therapy* 2009;8: 627-35. (IF: 2.64)
13. Gao, F., Ponte J. F., Levy M., **Papageorgis P.**, Cook N.M., Ozturk S., Lambert A.W., Thiagalingam A., Abdolmaleky H. M., Sullivan B. A. and Thiagalingam S. hBub1 negatively regulates p53 mediated early cell death upon mitotic checkpoint activation. *Cancer Biology & Therapy* 2009;8: 636-44. (IF: 2.64)
14. Pan, H., Gao F., **Papageorgis P.**, Abdolmaleky H. and Thiagalingam S. Aberrant activation of γ -catenin promotes genomic instability and oncogenic effects during tumor progression. *Cancer Biology & Therapy* 2007;6:1638-43. (IF: 2.64)
15. Abdolmaleky H.M., Cheng K.H., Faraone S.V., Wilcox M., Glatt S.J. Gao F., Smith C.L., Shafa R., Aeali B., Carnevale J., Pan H., **Papageorgis P.**, Ponte J.F., Sivaraman V., Tsuang M.T., Thiagalingam S. Hypomethylation of MB-COMT promoter is a major risk factor for schizophrenia and bipolar disorder. *Hum Mol Genet.* 2006;15:3132-45. (IF: 7.64)

Book chapters:

1. **Papageorgis P.**, Lambert A.W., Ozturk S. and Thiagalingam S. TGF β /BMP signaling in cancer. *Systems Biology of Cancer*, Chapter 14, Cambridge University Press, 2015 (in press).

2. Ozturk S., Lambert A.W., **Papageorgis P.** and Thiagalingam S. Cancer Metastasis. *Systems Biology of Cancer*, Chapter 18, Cambridge University Press, 2015 (in press).
3. Lambert A.W., Ozturk S., Wong C.K., **Papageorgis P.** and Thiagalingam S. Breast Cancer. *Systems Biology of Cancer*, Chapter 22, Cambridge University Press, 2015 (in press).
4. Thiagalingam S. and **Papageorgis P.** DNA methylation profiles as prognostic markers for cancer. *Cancer Epigenetics*, Chapter 19, 335-348, Taylor & Francis, 2008.

RESEARCH GRANT AWARDS

1. Research Promotion Foundation's Program "DIDAKTOR" - Co-funded by the European Regional Development Fund and the Republic of Cyprus (30/09/2010 - 30/09/2013)

Title: "Identification and functional characterization of novel genes involved in breast cancer metastasis"

Amount: 150,000 EUROS