CURRICULUM VITAE

Panagoula Kollia

PERSONAL DATA

Citizenship: Greek

Date and place of birth: Janauary 12, 1964, Athens, Greece.

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EDUCATION

1985	B.Sc. University of Athens, School of Physical Sciences, Athens, Greece.
1986 (3 months)	Fellow in Molecular Biology, Instituto Di Clinica e Biologia dell' Eta Evolutiva, University of Cagliari, Sardinia, Italy.
1988 (6 months)	Fellow in Molecular Biology, Department of Cell and Molecular Biology, University of Georgia Medical School, Augusta, GA.
1990	Ph.D. (Doctoral Thesis) University of Athens, School of Physical Sciences, Athens, Greece.

EMPLOYMENT

1990-1991	Postdoctoral Fellow in Molecular Genetics, First Department of Internal Medicine, University of Athens Medical School, Athens, Greece.
1991-1994	Visiting Fellow, Postdoctoral Research Fellowship, Fogarty

International Center, NIH, Bethesda, Maryland.

1994-1999 Research Biologist, First Department of Medicine, University of Athens Medical School, Athens, Greece.

2000-2007 Associate Professor, Department of Biology, School of Medicine, University of Thessaly.

2007-present Associate Professor, Department of Genetics and Biotechnology, Faculty of Biology, University of Athens.

TEACHING

Courses (undergraduate level):

General Biology, Molecular Biology, Human Genetics

Courses (postgraduate level, M.Sc.):

Molecular Biology, General Biology, Human Genetics, Human Molecular Genetics

RESEARCH PROGRAMS

Participation in 7 and 4 research projects funded by National and EU sourses, respectively.

Coordinator of 4 projects funded by the National Ministry of Education and the Greek General Secretary of Research and Technology.

NATIONAL & INTERNATIONAL CONFERENCES/SYMPOSIUM

Invited speaker in 55 seminars/conferences in Greece and abroad.

Presented more than 100 abstracts in National and International Conferences.

FELLOWSHIPS

1985-1987 Fellowship by "Alexandros Onassis" Fountation

1991-1994 Postdoctoral Fellowship, Fogarty International Center, National Institutes of Health, Bethesda, Maryland

SOCIETY MEMBERSHIPS

- Greek Society of Bioscientists
  New York Academy of Sciences
- Hellenic Society of Biological Sciences
- Hellenic Society of Medical Genetists
- European Society of Human Genetics

- American Society of Hematology
- European Society of Hematology

LANGUAGES

English, French

PUBLICATIONS

A. Publications in Peer-Reviewed Journals

*1.***Kollia P**., Gonzalez-Redondo J.M., Stoming T.A., Loukopoulos D., Politis C., Huisman T.H.J.: Frameshift codon 5 [FSC-5 (-CT)] thalassemia; a novel mutation detected in a Greek patient. Hemoglobin, 13, 597-604,1989.

2.Loukopoulos D., Hadji A., Papadakis M., Karababa Ph., Sinopoulou K., Boussiou M., **Kollia P**., Xenakis M., Antsaklis A., Mesoghitis A., Loutradi A., Fessas P.: Prenatal diagnosis of Thalassemia and of the Sickle cell syndromes in Greece. Annals of the New York Academy of Sciences, 612, 226-236, 1990.

3. Balassopoulou A., Loukopoulos D., **Kollia P**., Devoto M., Adam G., Arvanitakis S., Hadjisevastou H.: Cystic fibrosis in Greece: Typing with DNA probes and identification of the common molecular defect. Human Genetics, 85, 393-394, 1990.
4. **Kollia P**., Voskaridou E., Rombos J., Loutradi A., Marinakis T., Fessas P., Loukopoulos D.: Prenatal diagnosis of thalassemia intermedia. Is it justified? Annals of the New York Academy of Sciences, 612, 521-523, 1990.
5. Voskaridou E., **Kollia P**., Loukopoulos D.: Sickle cell thalassemia in Greece. Identification and contribution of the interacting β-thalassemia gene. Annals of the New York Academy of Sciences, 612, 508-509, 1990.

6.Loudianos G., Cao A., Pirastu M., Vassilopoulos G., **Kollia P**., Loukopoulos D.: Molecular basis of the δ thalassemia in cis to hemoglobin Knossos variant. Blood, 77, 2087-2088, 1991.

7. Jankovic L., Dimovoki A.J., **Kollia P**., Loukopoulos D., Huisman T.H.J.: A C→G mutation at nt position 6 3' to the terminating codon may be the cause of a silent β-thalassemia. Int. J. Hematol., 54, 298-293, 1991.

8. **Kollia P**., Karababa Ph., Sinopoulou K., Voskaridou E., Boussiou M., Papadakis M., Loukopoulos D.: β- thalassemia mutations and the underlying β

gene cluster haplotyles in the Greek population. Gene Geography, 6, 59-70, 1992.

9. Voskaridou E., Konstandopoulos K., **Kollia P**., Papadakis M., Loukopoulos D.: Hb Lepore (Pylos)/ HbS compounds heterozygosity in two Greek families. Am. J. Hematol., 49, 131-134, 1995.
10. Fibach E., **Kollia P**., Schechter A.N., Noguchi C.T., Rodgers G.P.: Hemin-induced acceleration of hemoglobin production in immature cultured erythroid cells: preferential enhancement of fetal hemoglobin. Blood, 85, 2967-2974, 1995.
11. **Kollia P**., Fibach E., Najjar S.M., Noguchi C.T., Schechter A.N.: Modifications of RNA Processing Modulate the Expression of Hemoglobin Genes. Proc. Nat. Acad. Sci. USA, 93, 5693-5698, 1996.
12. Kosmas C., Viniou N., Stamatopoulos K., Luck-Courtenay N.S., Papadaki Th., **Kollia P**., Paterakis G., Anagnostou D., Yataganas X., Loukopoulos D.: Analysis of the k light chain variable region in multiple myeloma. Brit. J. Haem., 94, 306-317, 1996.
13. **Kollia P**., Noguchi C.T., Fibach E., Loukopoulos D., Schechter A.N.: Modulation of globin gene expression in cultured erythroid precursors derived from normal individuals: transcriptional and post-transcriptional regulation by hemin. Proc. Am. Assoc. Phys. 109, 420-429, 1997.
14. **Kollia P**., Fibach E., Politou M., Noguchi C.T., Schechter A.N., Loukopoulos D.: Hydroxyurea and hemin affect both the transcriptional and post-transcriptional mechanisms of some globin genes in human adult erythroid cells. Annals of the New York Academy of Sciences, 850, 449-451, 1998.
15. Patrinos GP., **Kollia P**., Loutradi-Anagnostou A., Loukopoulos D., Papadakis MN. The Cretan type of non-deletional hereditary persistence of fetal hemoglobin [A gamma-158C-->T] results from two independent gene conversion events. Hum. Genet. 102, 629-634, 1998.
16. Patrinos GP., **Kollia P**., Papapanagiotou E., Loutradi-Anagnostou A., Loukopoulos D., Papadakis MN. Agamma-haplotypes: a new group of genetic markers for thalassemic mutations inside the 5' regulatory region of the human Agamma- globin gene. Am. J. Hematol. 66, 99-104, 2001.
17. Marianna P., **Kollia P**., Akel S., Papassotiriou Y., Stamoulakatou A., Loukopoulos D. Valproic acid, trichostatin and their combination with hemin preferentially enhance gamma-globin gene expression in human erythroid liquid cultures. Haematologica 86, 700-705, 2001.

18. **Kollia P**., Stavroyianni N., Stamatopoulos K., Zoi K., Viniou N., Mantzourani M., Noguchi CT., Paterakis G., Abazis D., Pangalos C., Loukopoulos D., Yataganas X. Molecular analysis of transferrin receptor (TfR) mRNA expression in acute myeloid leukemia. Brit. J. Haem. 115, 19-24, 2001.
19. Kalotychou V., **Kollia P**., Voskaridou E., Patargias T., Anagnou NP., Loukopoulos D. Functional role of the four different types of (AT)(x)T(y) motifs 5' to the beta-globin gene and their distribution in the Greek population. Blood Cells Mol. Dis. 28, 39-46, 2002.
20. **Kollia P**., Samara M., Stamatopoulos K., Belessi C., Stavroyianni N., Tsompanakou A., Athanasiadou A., Vamvakopoulos N., Laoutaris N., Anagnostopoulos A., Fassas A. ‘’Molecular evidence for transferrin receptor 2 expression in all FAB subtypes of acute myeloid leukemia. Leukemia Research, 27, 1101-1103, 2003.
21. Karamouti M., **Kollia P.**, Karligiotou E., Kallitsaris A., Prapas N., Kollios G., Seferiadis K., Vamvakopoulos N., Messinis IE. ‘’Absence of leptin expression and secretion by human luteinized granulosa cells’’. J. Mol. Endocrinology, 31, 233-239, 2003.
22. Tsezou A., Oikonomou P., **Kollia P.**, Mademtzis I., Kostopoulou E., Messinis IE., Vamvakopoulos N. ‘’The role of human telomerase catalytic subunit mRNA expression in cervical dysplasias’’. Exp. Biol. Med. 230, 263-270, 2005.
23. Patrinos GP., Piera Samperi P., Luca lo Nigro L., **Kollia P.,** Gino Schiliro G., Manoussos N. Papadakis MN. “Evidence for the molecular heterogeneity of sickle cell anemia chromosomes bearing the β^S/Benin haplotype”. Am J Hematol. 80:79-80, 2005.
24. Satra M., Dalekos GN., **Kollia P**., Vamvakopoulos N., Tsezou A. ‘’ Telomerase reverse transcriptase mRNA expression in peripheral lymphocytes of patients with chronic HBV and HCV infections’’. J Viral Hepatitis 12:488-493, 2005.
25. Smilevska T., Stamatopoulos K., Samara M., Belessi C., Tsompanakou A., Paterakis G., Stavroyianni N., Athanasiadou I., Chiotoglou I., Hadzidimitriou A., Athanasiadou A., Douka V., Saloum R., Laoutaris N., Anagnostopoulos A., Fassas A., **Kollia P**. ‘’Transferrin receptor –1 and -2 expression in chronic lymphocytic leukemia. Leukemia Research, 30:183-189, 2006.
26. Karligiotou E., **Kollia P**., Kallitsaris A., Messinis IE. Expression of human serum albumin (HAS) mRNA in human granulosa cells: potential correlation of the 95 amino acid long carboxyl terminal of HAS of gonadotrophin surge-attenuating factor. Human Reproduction, 21:645-650, 2006.

27. Koumbi D., Clement JC., Sideratou Z., Yaouanc JJ., Loukopoulos D., **Kollia P**. ''Factors mediating lipofection potency of a series of cationic phosphonolipids in human cell lines'' Biochim Biophys Acta, 1760: 1151-1159, 2006.
28. Hadzidimitriou A., Stamatopoulos K., Belessi C., Lalayianni C., Stavroyianni N., Smilevska T., Hatzi K., Laoutaris N., Anagnostopoulos A., **Kollia P**., Fassas A. '' Immunoglobulin genes in multiple myeloma: expressed and non-expressed repertoires, heavy and light chain pairings and somatic mutation patterns in a series of 101 cases. Haematologica, 91:781-787, 2006.
29. Papachatzopoulou A., Kaimakis P., Pourfarzad F., Menounos PG., Evangelakou P., **Kollia P.**, Grosveld FG., Patrinos GP. '' Increased gamma-globin gene expression in beta-thalassemia intermedia patients correlates with a mutation in 3'HS1. Am. J. Hematology 82:1005-1009, 2007.
30. Giardine B., vanBaal S., Kaimakis P., Riemer C., Miller W., Samara M., **Kollia P**., Anagnou NP., Chui DH., Wajcman H., Hardison RC., Patrinos GP. ''HbVar database of human hemoglobin variants and thalassemia mutations: 2007 update.'' Hum Mutat. 28:206-216, 2007.
31. Samara M., Chiotoglou I., Kalamaras A., Likousi S., Chassanidis C., Vagena A., Vagenas C., Efthichiadis E., Vamvakopoulos N., Patrinos GP, **Kollia P.** ''Large-scale population genetic analysis for hemoglobinopathies reveals different mutation spectra in Central Greece compared to the rest of the country.'' Am. J. Haematology 82:634-636, 2007.
32. Daponte A., Kostopoulou E., Chiotoglou I., Vanakara P., Minas M., Nakou M., **Kollia P**., Koukoulis G., Messinis IE. ''Retinoid receptor and Beta expression in serous ovarian tumors''. Oncology 73: 81-89, 2007.
33. Karamouti M., **Kollia P.**, Kallitsaris A., Vamvakopoulos N., Kollios G., Messinis IE. ''Growth hormone, insulin-like factor I, and leptin interaction in human cultured lutein granulose cells steroidogenesis''. Fertility and Sterility 90:1444-1450, 2008.
34. Daponte A., Kostopoulou E., **Kollia P**, Papamichali R., Vanakara P., Hadjichristodoulou C., Nakou M., Samara S., Koukoulis G., Messinis IE. ''L1 (CAM) (CD71) in ovarian serous neoplasms.'' Eur J Gynaecol Oncol. 29: 26-30, 2008.
35. Kalamaras A., Chassanidis C., Samara M., Papadakis MN., Vagena A., Aleporou-Marinou V., Patrinos GP, **Kollia P**. '' Compound heterozygosity of non-deletional hereditary persistence of fetal hemoglobin and deltabeta-thalassemia''. Am J Hematol. 83:760, 2008.

36. Chiotoglou I., Smilevska T., Samara M., Likousi S., Belessi C., Athanassiadou I., Stavroyianni N., Samara S., Laoutaris N., Vamvakopoulos N., Anagnostopoulos A., Fassas A., Stamatopoulos K., **Kollia P**. ‘’ Predominantly post-transcriptional regulation of activation molecules in chronic lymphocytic leukemia: the case of transferrin receptors’’. Blood Cells Mol Dis. 41:203-209, 2008.
37. **Kollia P**., Kalamaras A., Chassanidis C., Samara M., Vamvakopoulos NK., Radmilovic M., Pavlovic S., Papadakis MN., Patrinos GP. ‘’Compound heterozygosity for the Cretan type of non-deletional hereditary persistence of fetal hemoglobin and beta-thalassemia or Hb Sabine confirms the functional role of the Agamma -158 C>T mutation in gamma-globin gene transcription’’. Blood Cells Mol Dis 41:263-264, 2008.
38. Chassanidis C., Kalamaras A., Phylactides M., Pourfarzad F., Likousi S., Maroulis V., Papadakis MN., Vamvakopoulos NK., Aleporou-Marinou V., Patrinos GP., **Kollia P**. ‘’The Hellenic type of nondeletional hereditary persistence of fetal hemoglobin results from a novel mutation (g.-109G>T) in the HBG2 gene promoter. Ann Hematol 88: 549-555, 2008.
39. Kalamaras A., Chassanidis C., Samara M., Chiotoglou I., Vamvakopoulos NK., Papadakis MN., **Kollia P.**, Patrinos GP. ‘’ The 5' regulatory region of the human fetal globin genes is a gene conversion hotspot’’. Hemoglobin. 32:572-581, 2008.
40. Kostopoulou E., Samara M., **Kollia P.**, Zacharouli K., Mademtzis I., Daponte A., Messinis IE., Koukoulis G. ‘’Correlation Between Cyclin B1 Immunostaining in Cervical Biopsies and HPV Detection by PCR’’. Appl Immunohistochem Mol Morphol. 17:115-120, 2009.
41. Borg J., Georgitsi M., Aleporou-Marinou V., **Kollia P.**, Patrinos GP. ‘’Genetic recombination as a major cause of mutagenesis in the human globin gene clusters’’. Clin. Biochem. 42: 1839-1850, 2009.
42. Drosos Y., Kouloukoussa M., Ostvold AC., Grundt K., Goutas N., Vlachodimitropoulos D., Havaki S., **Kollia P.**, Kittas C., Marinos E., Aleporou-Marinou V. ‘’Nucks overexpression in breast cancer. Cancer Cell Int. 9:19-33, 2009.
43. Georgoulias P., Wozniak G., Samara M., Chiotoglou I., Kontos A., Tzavara C., Valotassiou V., Georgitsi M., Aleporou-Marinou V., Patrinos GP., **Kollia P**. ‘’Impact of ACE. Impact of ACE and ApoE polymorphisms on myocardial perfusion: correlation with myocardial single photon emission computed tomographic imaging’’. J. Hum. Genet. 54:595-602, 2009.

44. Satra M., Vamvakopoulos DN, Siotopoulou DO, **Kollia P.**, Kiritsaka A., Sotiriou S., Antonakopoulos G., Alexandris E., Constantoulakis P., Vamvakopoulos NC. ‘’Sequence-based genotyping HPV L1 DNA and RNA transcripts in clinical specimens’’. Pathol. Res. Pract. 205:863-869, 2009.
45. Karamouti M,, **Kollia P.**, Kallitsaris A., Vamvakopoulos N., Kollios G., Messinis IE. ‘’Modulating effect of leptin on basal and follicle stimulating hormone stimulated steroidogenesis in cultured human lutein granulosa cells’’. J Endocrinol Invest. 32:415-419, 2009.
46. Georgoulias P., Tsougos I., Valotassiou V., Samara M., **Kollia P**. ‘’Darwinian molecular imaging in nuclear cardiology’’. Eur J Nucl Med Mol Imaging 37: 829-839-830, 2010.
47. Satra M., Samara M., Wozniak G., Tzavara C., Kontos A., Valotassiou V., Vamvakopoulos NK., Tsougos I., Aleporou-Marinou V., Patrinos GP., **Kollia P.**, Georgoulias P. ‘’Sequence variations in the FII, FV, F13A1, FGB and PAI-1 genes are associated with differences in myocardial perfusion’’. Pharmacogenomics 12:195-203, 2011.
48. Apostolopoulou D, Stratoudakis A, Hatzaki A, Kaxira OS, Panagopoulos KP, **Kollia P**, Aleporou V. ‘’A novel de novo mutation within EFNB1 gene in a young girl with Craniofrontonasal syndrome’’ Cleft Palate Craniofac. J. 27, 2011.
49. Giardine B., Borg J., Higgs DR.., Peterson KR., Philipsen S., Maglott D., Singleton BK., Anstee DJ., Basak AN., Clark B., Costa FC., Faustino P., Fedosyuk H., Felice AE., Francina A., Galanello R., Gallivan MV., Georgitsi M., Gibbons RJ., Giordano PC., Harteveld CL., Hoyer JD., Jarvis M., Joly P., Kanavakis E., **Kollia P.**, Menzel S., Miller W., Moradkhani K., Old J., Papachatzopoulou A., Papadakis MN, Papadopoulos P., Pavlovic S., Perseu L., Radmilovic M., Riemer C., Satta S., Schrijver I., Stojiljkovic M., Thein SL., Traeger-Synodinos J., Tully R., Wada T., Waye JS., Wiemann C., Zukic B., Chui DH., Wajcman H., Hardison RC., Patrinos GP. ‘’Systematic documentation and analysis of human genetic variation in hemoglobinopathies using the microattribution approach’’ Nat Genet. 43:295-301, 2011.
50. Mantzos F., Vanakara P., Samara S., Wozniak G., **Kollia P.**, Messinis I., Hatzitheofilou C. ‘’Leptin receptor expression in neoplastic and normal ovarian and endometrial tissue’’ Eur J Gynaecol Oncol. 32:84-86, 2011.
51. Karligiotou E., **Kollia P.**, Papaggeli P., Samara S., Vagena A., Dafopoulos K., Messinis IE. ‘’FSH modulatory effect on human granulosa cells: a gene-protein candidate for gonadotrophin surge-attenuating factor’’ Reprod Biomed Online June, 2011.

52. Mousiolis AV., **Kollia P.**, Skentou C., Messinis IE. ‘’Effects of leptin on the expression of fatty acid-binding proteins in human placental cell cultures’’ Mol Med Report. 5:497-502, 2012.

B. Reviews

1. Kosmas C., Stamatopoulos K., Stavroyianni N., Zoi K**.**, Belessi C., Viniou N., **Kollia P**., Yataganas X. Origin and diversification of the clonogenic cell in multiple myeloma: Lessons from the immunoglobulin repertoire. Leukemia 14,1718-1726, 2000.
2. Patrinos GP., **Kollia P.,** Papadakis MN. “Molecular diagnosis of inherited disorders: Lessons from hemoglobinopathies”. Human Genetics, 26: 399-412, 2005.
3. Papaioannou AI., Kostikas K., **Kollia P**., Gourgoulianis KI. ’’Clinical implications for vascular endothelial growth factor in the lung: friend or foe?’’ Respir Res. 7:128-132, 2006.
4. Kostopoulou E., Samara M., **Kollia P.**, Zacharouli K., Mademtzis I., Daponte A., Messinis IE., Koukoulis G. ‘’ Different patterns of p16 immunoreactivity in cervical biopsies: correlation to lesion grade and HPV detection, with a review of the literature’’ Eur J Gyaecol Oncol 32:54-61, 2011.

C. Book Chapters

1. **Kollia P**., Karababa Ph., Sinopoulou K., Voskaridou E., Boussiou M., Papadakis M., Loukopoulos D.: β-thalassemia mutations and associated RFLPs in the Greek population. Current views on thalassemia. Ed. S. Roath, Harwood Acad. Publ. pp. 97-100, 1992.
2. Loukopoulos D., Voskaridou E., **Kollia P**.: Interactions of the β- globin variants in Greece: Review. Proceedings of the Sixth International Clinical Genetics Seminar on "Genetics of Hematological Disorders", Eds: C. Bartsokas and D. Loukopoulos, Hemisphere Publishing Co., Washington, D.C., pp. 79-86, 1992.
3. Noguchi C.T., Peters B., **Kollia P**., Li J., Fibach E., Schechter A.N.: Transcriptional and post-transcriptional mechanisms of ε-globin gene silencing. Molecular biology of hemoglobin switching. Ed. G. Stamatoyannopoulos, Intercept Ltd, pp. 153-161, 1995.

4. Loukopoulos D. and **Kollia P**. Worldwide distribution of β thalassemia. Disorders of hemoglobin. Eds MH. Steinberg, BG. Forget, DR. Higgs, RL. Nagel, Cambridge University Press, pp 861-877, 2001.

RESEARCH IMPACT INDEXES

More than 450 citations to my publications.