

CURRICULUM VITAE
Vassiliki Aleporou-Marinou
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Family name Aleporou-Marinou
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June 1974 BSc in Biology, University of Athens, Department of Biology

1974-1978 University of Southampton, England, PhD thesis on «*Production and differentiation of erythroid cells in normal and anaemic Xenopus laevis*». Scholarship from the Greek state scholarship foundation.

1978-1981 Research Assistant in the Center of Thalassaemia of the University of Athens, Medical School, having the responsibility of prenatal diagnosis of β -thalassaemia.

1981 Lecturer in the Division of Biochemistry, Cell and Molecular Biology and Genetics of the Department of Biology of the University of Athens.

1988 Assistant Professor in the same Department.

2003 Associate Professor in the same Department

Professional Skills

Laboratory techniques

- Electrophoresis and Two-Dimensional Electrophoresis
- Chromatography and HPLC chromatography
- Western immunoblotting
- DNA electrophoresis, PCR, Southern blot, Hybridizations etc.

Academic activities

Undergraduate Teaching

- Human genetics from 1981 up to now
- General Biology from 2004 up to now
- Practicals in cell biology and Human genetics

Postgraduate teaching

- Practicals and theory concerning genetics and human genetics

Fellowships-Research projects

During my postgraduate studies from the Greek Scholarships Foundation (IKY).
From 1978-today: Common research projects on the study of nuclear proteins with the Academy of Sciences, Bulgaria, the Department of Biophysics of the University of Trieste, Italy, the University of Gent, Belgium and the University of Oslo, Norway and the University of Portsmouth, England.

RESEARCH PROGRAMS

- 1** The study of histones and High Mobility Group proteins (HMG) during development in various insect species.
- 2** Analysis of various proteins of the human follicular fluid and their possible involvement in the fertilization process. Transferrin, α 1-antitrypsin and Apolipoprotein H have been studied and their role in the fertilization process has been analysed.
- 3** Analysis of the nuclear sperm proteins of the bivalve mollusc *Ostrea edulis*. The proteins have been characterized and their sequence deduced from DNA sequencing.

These programs are funded by the University of Athens Research Committee

SELECTED PUBLICATIONS

- 1 **Aleporou-Marinou, V.**, Maclean, N. (1978). Feedback inhibition of erythropoiesis induced in anaemic *Xenopus*. *J. Emryol. exp. Morph.* 43, 221-231.
- 2 Chegini, N., **Aleporou-Marinou, V.**, Bell, G., Hilder, V.A., Maclean, N. (1979). Production and fate of erythroid cells in anaemic *Xenopus laevis*. *J. Cell Sci.* 35,403-415.
- 3 **Aleporou-Marinou, V.**, Sakarelou-Papapetrou, N., Antsaklis, A., Fessas, Ph., Loukopoulos, D. (1980). Prenatal diagnosis of thalassemia major in Greece: Evaluation of the first large series of attempts. *Annals NY Acad. Sci.* 344,181-188.
- 4 Loukopoulos, D., Antsaklis, A., **Aleporou-Marinou, V.**, Panourgias, J., Karababa, Ph., Fessas, Ph. (1982). Prenatal diagnosis of β -thalassemia, the greek experience. *Birth Defects: Original Article Series*, vol.18, pp. 293-301. A.Cao ed., Allan Liss NY.
- 5 Pataryas, Th., Sekeri-Pataryas, K., Bonner, W.M., **Aleporou-Marinou, V.** (1984). Histone variants of the insect *Plodia interpunctella* during metamorphosis. *Comp. Biochem. Physiol.* 77B, 749-753.
- 6 Venkov, Ch., **Aleporou-Marinou, V.**, Russanova, V., Sekeri-Pataryas, K., Pataryas, Th. (1985). Histone variants during development of follicular cells of silk moths. *Comp. Biochem. Physiol.* 83B, 85-91.
- 7 **Aleporou-Marinou, V.**, Sekeri-Pataryas, K., Pataryas, Th. (1987). Histone variants in Lepidoptera during metamorphosis. *Comp. Biochem. Physiol.* 88B, 1027-1031.
- 8 Sourlingas, T., **Aleporou-Marinou, V.**, Pataryas, Th., Sekeri-Pataryas, K. (1991). Influence of chlorambucil, a bifunctional alkylating agent on the histone variant biosynthesis of Hep-2 cells. *Biochem. Biophys. Acta.* 1092, 298-303.
- 9 Vafopoulou, X., Steel, C.G.H., **Aleporou-Marinou, V.**, Pataryas, Th. (1992). Haemolymph ecdysteroid titers at metamorphosis in the fruit fly *Ceratitis capitata*: multiple peaks not apparent in whole body extracts. *Physiol. Entomol.* 17, 380-386.

- 10 **Aleporou-Marinou, V.**, Photopoulou, A., Sourlingas, T.G., Ostvold, A.C., Pataryas, Th., Sekeri-Pataryas, K. (1995). The effect of chlorambucil on the biosynthesis of the HMG and histone H1 chromosomal proteins of Hep-2 cells. *Biochem. Molec. Biol. Inter.* 36, 439-449.
- 11 Kondos, H., Anastasiadou, E., Photopoulou, A., Cary, P., **Aleporou-Marinou, V.**, Pataryas Th. (1995). Elevated levels of chromosomal protein HMG 17 in chronic myelogenous leukemia. *Biochem. Molec. Biol. Inter.* 36, 803-809.
- 12 **Aleporou-Marinou, V.**, Pappa, H., Yalouris, P., Patargias, Th. (2001). Purification of apolipoprotein H(beta2 glycoprotein D)-like protein from human follicular fluid. *Comp. Biochem. Physiol.* 128B, 537-542.
- 13 Photopoulou, A., Patargias, Th., **Aleporou-Marinou, V.** (2001). P1, a high mobility group-like protein is depressed in human breast adenocarcinoma. *Comp. Biochem. Physiol.* 130B, 271-278.
- 14 **Aleporou-Marinou, V.**, Pappa, H., Marinou, H., Yalouris, P., Patargias, Th. (2002). Presence of alpha1-antitrypsin and transferrin in human follicular fluid-correlation with fertilization. *Comp. Biochem. Physiol.* 133B, 105-111.
- 15 **Aleporou-Marinou, V.**, Drossos, Y., Ninios, Y., Agelopoulou, B., Patargias, Th. (2003). High mobility group-like proteins of the insect *Plodia interpunctella*. *Biochem. Genet.* 41, 39-46.
- 16 **Aleporou-Marinou, V.**, Patargias, Th. (2003). A mini review of the high mobility group proteins of insects. *Biochem. Genet.* 41, 291-304.
- 17 **Aleporou-Marinou, V.**, Deli, Ch., Ninios, Y., Agelopoulou, B., Marinou, H., Patargias, Th. (2003). A high mobility group protein from the dipteran insects *Ceratitis capitata* and *Bactrocera oleae*. *Biochem. Genet.* 41,235-243.
- 18 Agelopoulou, B., Cary, P., Patargias, Th., **Aleporou-Marinou, V.**, Crane-Robinson, C. (2004). The sperm-specific proteins of the edible oyster (*O. edulis*) are products of proteolytic processing. *Biochem. Biophys. Acta* 1676,12-22.
- 19 Kouloukoussa, M., **Aleporou-Marinou, V.**, Agelopoulou, B., Trougakos, I., Panagopoulou, E., Kittas, Ch., Marinos, E. (2004). Phorbol myristate acetate induces changes on F-actin and vinculin content in immature rat Sertoli cells. *Tissue and Cell* 36, 149-155.
- 20 Grundt, K., Vaagslid, I., **Aleporou-Marinou, V.**, Drosos, Y., Wanvik B., Ostvold, A.C. (2004). Characterization of the NUCKS gene on human

chromosome 1q32.1 and the presence of a homologous gene in different species. *Biochem. Biophys. Res. Commun.* 323, 796-801.

- 21 Thomas, D., Michou, V., Moustakarias, T., **Aleporou-Marinou, V.**, Matzavinos, T., Mitsakos-Barbagiannis, K., Kalofoutis, A., Tsilivakos, V. (2005) Altered immunophenotypic parameters in infertile women. Possible role of Herpes viremia. *Am. J. Reprod. Immunol.* 54, 101-111.
- 22 Havaki, S., Kouloukoussa, M., Amawi, K., Drosos, Y., Arvanitis, LD., Goutas, N., Vlachodimitropoulos, D., Vassilaros, SD., Katsantoni, EZ., Voloudakis-Baltatzis, I., Aleporou-Marinou, V., Kittas, C., Marinos, E. (2007) Altered expression pattern of integrin α v β 3 correlates with actin cytoskeleton in primary cultures of human breast cancer. *Cancer Cell Int.* 2, 7-16.
- 23 Kalamaras A., Chassanidis, C., Samara, M., Papadakis MN., Vagena A., Aleporou-Marinou V., Patrinos, GP., Kollia P. (2008) Compound heterozygosity of non-deletional hereditary persistence of fetal hemoglobin and δ -thalassemia. *Am J Hematol.* 83, 760.
- 24 Chassanidis C., Kalamaras A., Phylactides, M., Pourfartad F., Likousi, S., Maroulis, V., Papadakis MN., Vamvakolpoulos, NK., Aleporou-Marinou, V., Patrinos, GP., Kollia, P. (2008). *Ann Hematol*
- 25 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
- 26 Drosos Y., Kouloukoussa M., Ostvold AC., Grundt K., Goutas N., Vlachodimitropoulos D., Havaki S., Kollia P., Kittas C., Marinos E., **Aleporou-Marinou V.** "Nucleoside overexpression in breast cancer. *Cancer Cell Int.* 9:19-33, 2009.
- 27 Georgoulas 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.
- 28 Satra M., Samara M., Wozniak G., Tzavara C., Kontos A., Valotassiou V., Vamvakopoulos NK., Tsougos I., **Aleporou-Marinou V.**, Patrinos GP., Kollia P., Georgoulas 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.

- 29** 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.