SHORT CURRICULUM VITAE

NAME: Syrrou,Marika

TITLE: Professor Gen. Biology/Medical Genetics, Lab. Of Gen. Biology, Faculty of Medicine, University of Ioannina, Ioannina, Greece.

A. Education

Aristotle University of Thessaloniki	B.Sc.	1981	Biology
Medical School of the National and Kapodistrian University of Athens, Greece	Ph.D.	1989	Medical Genetics

B. Positions, occupation, scientific activities, training

2016-	Professor, Gen. Biology/Medical Genetics, Laboratory of General Biology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece (683/3/8/2010).
2010-2016	Assoc. Professor, Gen. Biology/Medical Genetics, Laboratory of Gen. Biology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Greece
1998-2010	Assist. Professor, Gen. Biology/Medical Genetics, Laboratory of Gen. Biology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Greece. In charge of the Cytogenetics Unit.
2000-2001	Visiting Scientist**.**Centre for Human Genetics University of Leuven, Belgium. Projects: Mental deficiencies and subtelomeric rearrangements 2. Chromosome rearrangements in children with autism and epilepsy and identification of new candidate genes.
1990-1998	Lecturer, Gen. Biology/Medical Genetics, Laboratory of Gen. Biology, Medical School, University of Ioannina. Establishment and operation of the Cytogenetics Unit
1997	Training in PCR techniques for Fragile X syndrome diagnosis in Ongwanada Resource Centre- Cytogenetics & DNA Research & Autism Lab, Canada
1995	Training in CGH (Comparative Genomic Hybridisation) in Nijmegen Medical Centre, Department of Human Genetics Nijmegen, The Netherlands
1993	Cambridge University, Dept of Pathology Training in Molecular Cytogenetics. Molecular Genetics Laboratory, Addenbrooks Hospital training in new techniques and methods for the diagnosis of microdeletion syndromes.
1986-1990	Cytogeneticist, Genetics Unit,1st Department of Pediatrics, Medical School, National

and Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital

1983-1986 Training in Cytogenetics . Genetics Unit,1st Department of Pediatrics, Medical School, National and Kapodistrian University of Athens, "Aghia Sophia" Hospital

C. SOCIETIES

Member of the Hellenic Association of Medical Genetics

Member of the Panhellenic Society of BIOSCIENTISTS

Member of the European Society of Human Genetics

Member of the European Society of Cytogenetics

D.TEACHING ACTIVITIES

Undergraduate Teaching

2004- Lectures in courses "Biology I&II" 1st and 2d semester students (Faculty of Medicine, University of Ioannina).

2004- "Introduction to Clinical Genetics" (Elective for medical students 5th semester, Faculty of Medicine, University of Ioannina).

2004- "Human Genetics- Medical Genetics" Elective for students of the Dept of Biological Applications & Technologies students, School of Health Sciences, University of Ioannina

1994-2004 "Clinical Cytogenetics and Molecular Genetics" Elective for medical students, 7th semester, Medical School, University of Ioannina

1990-1992 Lectures in Course "Cytogenetics" (Department of Biology), University of Crete

1990- Laboratory training in 3d semester students (Faculty of Medicine, University of Ioannina).

Postgraduate Teaching

2018- Master's in Environmental Sciences and Education for Sustainable Development (2h/week, 1st semester)

2015- Master's in "Biomedical Studies". "Genetics, Cytogenetics and Epidemiology". (Genetics and Cytogenetics, 2h/week 2nd semester)

2000- Master's in "Biotechnology", University of Ioannina (Cytogenetics, genetic markers, 3h/semester)

2006-2008 Master's course "Cytogenetics", Medical School, University of Patras, Greece (4h/semester)

Dissertations and Thesis

Supervision of 9 PhDs (4 completed and 5 on-going).

E. RESEARCH GRANTS

Principal investigator: in 4 national grants, 1 collaborative grant Greece-Cyprus. Participation in 4 national grants as collaborating investigator. «INSPIRED » "The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts and Drug target functional characterization-Inspired" (MIS) 5002550. EPANEK-ESPA 2014 - 2020. 106500 euros.

BIBLIOMETRIC INDICES

Scientific articles (SCI Journals):	57
Review articles	4
Participation in the writing of scientific books (Book Chapters)	3
Abstracts in international scientific meetings	46
Abstracts in Greek scientific meetings	49
Total citations [Google Scholar/Scopus (autoreferences excluded)]	3474/2356
h Index (Google Scholar/Scopus)	24/19
Total journal impact factor	213,534
Mean journal impact factor	3,68

PUBLICATIONS

1. Mavrou A, **Syrrou M**, Tsenghi C, Agelakis M, Youroukos S, and Metaxotou C.Martin-Bell syndrome in Greece, with report of another 47,XXY fragile X patient. Am J Med Genet 31: 735-739, 1988.

2. Mavrou A, **Syrrou M**, Tsenghi C, Metaxotou C. Autosomal folate sensitive fragile sites in normal and mentally retarded individuals, in Greece. Am J Med Genet 38: 437-439,1991.

3. Stefos T, Georgiou I, **Syrrou M**, Lolis D. A case of intestinal tract distensions: prenatal, biochemical and ultrasound evaluation. Fetal Diagnosis and Therapy 8: 211-213, 1993.

4. Bourantas K, Christou L, Tsiara S, Galanakis E, **Syrrou M**. Follow-up of eighteen patients with chronic myelomonocytic leukemia. J Exp Clin Cancer Res 14 (3): 321-326,1995.

5. **Syrrou M**, Georgiou I, Paschopoulos M, and Lolis D. Seckel syndrome in a family with three affected children and hematological manifestations associated with chromosome instability. Genet Couns 6: 37-41, 1995.

6. Bourantas K, **Syrrou M**, Tsiara S, Danella M, Konstandinides P. Combination therapywith interferon alfa-2b and hydroxyurea during the accelerated phase of chronic myelogenous leukemia . Acta Hematologica 95: 117-121, 1996.

7. Lolis D, Georgiou I, **Syrrou M**, Zikopoulos K, Konstantelli M, and Messinis I. Chromomycin A3 staining as an indicator of protamine deficiency and fertilization. Int J Androl 19: 23-27, 1996.

8. **Syrrou M**, Patsalis PC, Georgiou I, Hadjimarcou MI, Constantinou-Deltas CD, and Pagoulatos G. Evidence for high-risk haplotypes and (CGG) n expansion in Fragile X syndrome in the Hellenic population of Greece and Cyprus. Am J Med Genet 64: 234-238, 1996.

9. Patsalis PC, Hadjimarcou MI, Velissariou V, Kitsiou-Tzeli S, Zera C, **Syrrou M**, Lyberatou E, Tsezou A, Galla A and Skordis N. Supernumerary marker chromosomes (SMCs) in Turner syndrome are mostly derived from the Y chromosome. Clin Genet 51:184-190, 1997.

10. Georgiou I, Konstantelli M, **Syrrou M**, Messinis I, Lolis D. Estrogen receptor gene polymorphisms and ovarian stimulation for in vitro fertilization. Hum Reprod 12: 1430-1433, 1997.

11. Makrydimas G, Georgiou I, **Syrrou M**, Lolis D. Increased nuckal translucency thickness in a fetus at risk for b-Thalassemia. J Maternal Fetal Madicine 6: 1-2, 1997.

12. **Syrrou M**, Georgiou I, Grigoriadou M, Petersen MB, Kitsiou S, Pagoulatos G, Patsalis PC. FRAXA and FRAXE prevalence in patients with nonspecific mental retardation in the hellenic population. Genet Epidemiol 15: 103-109, 1998.

13. **Syrrou M**, Patsalis PC, Georgiou I, Alamanos Y, and Pagoulatos G. Variation in the number of the FMR1 microsatellite repeats in three subgroups of the Hellenic population(*Brief Communication*). Hum Biology 70 (3): 621-629, 1998.

14. Filiadis IF, **Syrrou MB**, Bai MC, Georgiou IA, Pagoulatos GN, Giannakopoulos X.Infertility and multiple urogenital abnormalities in a male with mosaic 46,XY/ 45,X0/47,XXY karyotype and mixed phenotype. Urol Int 61: 111-114, 1998.

15. Georgiou I, **Syrrou M**, Stefanidis K, Konstantelli M, Lolis D. Effect of Percoll and swim-up preparation techniques on the chromomycin A3 staining of normal and abnormal semen samples Andrologia 30 (2): 101-104, 1998.

16. Georgiou I, **Syrrou M**, Bouba I, Dalkalitsis N, Paschopoulos M, Navrozoglou I, and Lolis D. Association of estrogen receptor gene polymorphisms with endometriosis. Fertil Steril 72 (1): 164-166, 1999.

17. **Syrrou M**, Georgiou I, Patsalis PC, Bouba I, Adonakis G, and Pagoulatos GN.Fragile X premutations and (TA)n Estrogen receptor polymorphisms in women with ovarian dysfunction. Am J Med Genet 84 (3): 306-308, 1999.

18. Patsalis PC, Sismani C, Hettinger JA, Bouba I, Georgiou I, Stylianidou G, Anastasiadou V, Koukoulli R, Pagoulatos G, **Syrrou M**. Molecular screening of fragile X(FRAXA) and FRAXE mental retardation syndromes in the Hellenic population of Greece and Cyprus. Am J Med Genet 84: 184-190, 1999.

19. Allingham-Hawkins DJ, Babul-Hirji R, Chitayat D, Holden JA, Yang KT, Lee C,Hudson R, Gorwill H, Nolin SL, Glicksman A, Jenkins EC, Brown TW, Howard-PeeblesPN, Becchi C, Cummings E, Fallon L, Seitz S, Black SH, Vianna-Morgante AM, Costa SS, Otto PA, Mingroni-Netto RC, Murray A, Webb J, MacSwinney F, Dennis N, Jacobs PA, **Syrrou M**, Georgiou I, Patsalis PC, Giovanucci Uzielli M, Guarducci S, Lapi E, Cecconi A, Ricci U, Ricotti G, Biondi C, Scarcelli B, Vieri F. Fragile X premutation is a significant risk factor for premature ovarian failure : The international collaborative POF in fragile X study- preliminary data. Am J Med Genet 83: 322-325, 1999.

20. Malamou-Mitsi VD, **Syrrou M**, Georgiou I, Pagoulatos G, Agnantis NJ. Analysis of chromosomal aberrationa in breast cancer by comparative genomic hybridisation (CGH). Correlation

with fhistoprognostic variables and c-erb-2 immunoexpression.J Exp ClinCancer Res 18: 357-361, 1999.

21. Tsezou A, Kitsiou S, Galla A, Petersen MB, Karadima G, **Syrrou M**, Sahlen S, Blennow E. Molecular cytogenetic characterisation and origin of two de novo duplication 9p cases. Am J Med Genet 13: 102-106, 2000.

22. Rosser ZH, Zerjal T, Hurles ME, Adojaan M, Alavantic D, Amorim A, Amos W,Armenteros M, Arroyo E, Barbujani G, Beckman G, Beckman L, Bertranpetit J, Bosch E,Bradley DG, Brede G, Cooper G, Corte-Real HBSM, Knijff P, Decorte R, Dubrova YE,Evgrafov O, Gilissen A, Glisic S, Golge M, Hill EW, Jeriorowska A, Kalaydjieva L, KayserM, Kivisild T, Kravchenko A, Krumina A, Kucinkas V, Lavinha J, Livshits LA, Malaspina P, **Syrrou M**, McElreavey K, Meitinger T, Mikelsaar AV, Mitchell RJ, Nafa K, Nicholson J,Norby S, Pandya A, Parik J, Patsalis PC, Pereira L, Peterlin B, Pielberg G, Prata MJ,Previdere C, Roewer L, Rootsi S, Rubinsztein DC, Saillard J, Santos FR, Stefanescu G,Sykes BC, Tolun A, Villems R, Tyler-Smith C, and Jobling MA. Y-Chromosomal Diversityin Europe is clinal and influenced primarily by geography, rather than by language.Am J.Hum Genet 67: 1526 –1543, 2000.

23. **Syrrou M**, Fryns JP. Interstitial deletion of chromosome 11 (q22.3-q23.2) in a boy with mild developmental delay. J Med Genet 38(9): 621-624, 2001 (*Letter*).

24. Van Buggenhout GJ, van Ravenswaaij-Arts C, Mieloo H, **Syrrou M**, Hamel B, Brunner H, Fryns JP. Dysmorphology and mental retardation: molecular cytogenetic studies in dysmorphic mentally retarded patients. Ann Genet. 44 (2): 89-92, 2001.

25. Frints SG, Fryns J, Lagae L, **Syrrou M**, Marynen P, Devriendt K. Xp22.3; Yq11.2chromosome translocation and its clinical manifestations. Ann Genet. 44(2): 71-76, 2001.

26. **Syrrou M**, Borggraef M, and Fryns JP. Unusual chromosomal mosaicism in Wolf-Hirschorn syndrome: del(4)(p16)/ der (4)qter- q31.3::pter-qter). Am J Med Genet. Part A104:199-203, 2001.

27. **Syrrou M**, Yapijakis C, Bouba I, Adamidis K, Vassilopoulos D, Georgiou I.Distribution of two X-linked trinucleotide polymorphisms in Greece.Community Genet. 4:125-128, 2001 (*Short communication*).

28. **Syrrou M**, Keymolen K, Devriendt K, Holvoet M, Thoelen R, Verhofstadt K and Fryns JP. Glypican 1 gene: good candidate for Brachydactyly Type E. Am J Med Genet. 108(4):310-4, 2002.

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30. Vermeesch JR, **Syrrou M**, Salden I, Dhondt F, Matthijs G, Fryns JP. Mosaicism forduplication 12q (12q13-->12q21.2) accompanied by a pericentric inversion in a dysmorphic female infant. J Med Genet, 39 (11): e72, 2002 (*Letter*).

31. Van Esch H, **Syrrou M**, Lagae L. Refractory photosensitive epilepsy associated with a complex rearrangement of chromosome 2. Neuropediatrics, 33 (6): 320-323, 2002 (*Short communication*).

32. Paparounas K, Gotsi A, **Syrrou M**, Akritidis N.Kennedy disease: avoiding misdiagnosis. Arch Neurol, 60 (6): 893-894, 2003 (*Letter*).

33. Sismani C, **Syrrou M**, Christodoulou K, Hamel B, Chelly J, Yntema HG, van Bokhoven H, Tzoufi M, Georgiou I, Patsalis PC. A gene for nonsyndromic X-linked mental retardation (MRX77) maps to Xq12-Xq21.33. Am J Med Genet A, 122 (1): 46-50, 2003.

34. Kukuvitis A, Georgiou I, **Syrrou M**, Andronikou S, Dickerman Z, Islam A, McCann J, Polychronakos C. Lack of association of birth size with polymorphisms of two imprinted genes, IGF2R and GRB10. J Pediatr Endocrinol Metab, 17(9): 1215-1220, 2004.

35. Schlingmann KP, Sassen MC, Weber S, Pechmann U, Kusch K, Pelken L, Lotan D, **Syrrou M**, Prebble JJ, Cole DE, Metzger DL, Rahman S, Tajima T, Shu SG, Waldegger S, Seyberth HW, Konrad M.Novel TRPM6 mutations in 21 families with primary hypomagnesemia and secondary hypocalcemia. J Am Soc Nephrol, 16 (10): 3061-3069, 2005.

36. Bourantas LK, Chatzikyriakidou A, Dasoula A, **Syrrou M**, Bournatas KL, Georgiou I. Absence of mutations of the EPO-receptor gene in Greek patients with familialpolycythemia. Eur J Haematol, 76 (6): 537-538, 2006 Jun; (*Letter)*.

37. Georgiou I, **Syrrou M**, Pardalidis N, Karakitsios K, Mantzavinos T, Giotitsas N, Loutradis D, Dimitriadis F, Saito M, Miyagawa I, Tzoumis P, Sylakos A, Kanakas N,,Moustakareas T, Baltogiannis D, Touloupides S, Giannakis D, Fatouros M, Sofikitis N. Genetic and epigenetic risks of intracytoplasmic sperm injection method. Asian J Androl,8 (6): 643-673, 2006 (*Review*).

38. Dasoula A, Georgiou I, Kontogianni E, Sofikitis N, **Syrrou M**. Methylation status of the SNRPN and HUMARA genes in testicular biopsy samples. Fertil Steril, 87 (4): 805-809, 2007.

39. Tzoufi M, Kanioglou C, Dasoula A, Asproudis I, Tsatsoulis A, Sismani C, Patsalis P, Gorgiou I, **Syrrou M**. Mosaic trisomy r(14) associated with epilepsy and mental retardation. J Child Neurol, 22 (7): 869-873, 2007.

40. Siomou E, Bouba I, Kollios KD, Papadopoulou F, **Syrrou M**, Georgiou I, Siamopoulou A. Angiotensin II type 2 receptor gene polymorphism in Caucasian children with a wide spectrum of congenital anomalies of the kidney and urinary tract. Pediatr Res, 62 (1): 83-87, 2007.

41. Witsch-Baumgartner M, Schwentner I, Gruber M, Benlian P, Bertranpetit J, Bieth E, Chevy F, Clusellas N, Estivill X, Gasparini P, Giros M, Kelley RI, Krajewska-Walasek M, Menzel J, Miettinen TA, Ogorelkova M, Rossi M, Scala I, Schinzel A, Schmidt K, Schönitzer D, Seemanova E, Sperling K, **Syrrou M**, Talmud P, Wollnik B, Krawczak M, Labuda D, Utermann G.Age and origin of major Smith-Lemli-Opitz Syndrome (SLOS) mutations in European populations. J Med Genet, 45 (4): 200-209, 2008.

42. Hatzimichael E, Dasoula A, Benetatos L, Makis A, Stebbing J, Crook T, **Syrrou M**, Bourantas KL.The absence of CDKN1C (p57KIP2) promoter methylation in myeloidmalignancies also characterizes plasma cell neoplasms. Br J Haematol, 141(4): 557-558, 2008 (*Letter*).

43. Dasoula A, Kalantaridou S, Sotoriadis A, Pavlou M, Georgiou i, Paraskevaidis E, Makrigiannakis A, **Syrrou M**. Skewed X-chromosome inactivation in Greek women with idiopathic recurrent miscarriage. Fetal Diagn Ther, 23(3):198-203, 2008.

44. Benetatos L, Dasoula A, Hatzimichael E, Georgiou I, **Syrrou M**, Bourantas KL. Promoter hypermethylation of the MEG3 (DLK1/MEG3) imprinted gene in multiple myeloma. Clin Lymphoma Myeloma, 8(3):171-175, 2008.

45. Georgiou I, Noutsopoulos D, Dimitriadou E, Markopoulos G, Apergi A, Lazaros L, Vaxevanoglou T, Pantos K, **Syrrou M** and Tzavaras T. RetrotransposonRNA expression and evidence for retrotrnsposition events in human oocytes. Hum Mol Genet, 18 (7): 1221-1228, 2009.

46. Hatzimichael E, Benetatos L, Dasoula A, Dranitsaris G, Tsiara S, Georgiou I, **Syrrou M**, Stebbing J, Coley HM, Crook T, Bourantas KL. Absence of methylation-dependent transcriptional silencing in TP73 irrespective of the methylation status of the CDKN2A CpG island in plasma cell neoplasia. Leuk Res, 33(9):1272-5, 2009

47. Thienpont B*, Dimitriadou E*, Theodoropoulos K, Breckpot J, Fryssira H, Kitsiou-Tzeli S, Tzoufi M, Vermeesch JR, **Syrrou M#**, Devriendt K#. Refinining the locus of Branchio-Otic Syndrome 2 (BOS2) to a 5.25 Mb locus on chromosome 1q31.3q32.1. (*,# equal contribution). Eur J Med Genet., 52(6):393-7, 2009.

48. Benetatos L, Hatzimichael E, Dasoula A, Dranitsaris G, Tsiara S, **Syrrou M**, Georgiou I, Bourantas KL. CpG methylation analysis of the MEG3 and SNRPN imprinted genes in acute myeloid leukemia and myelodysplastic syndromes. Leuk Res., 34(2):148-53, 2010.

49. Vrekoussis T, Kalantaridou SN, Mastorakos G, Zoumakis E, Makrigiannakis A, **Syrrou M**, Lavasidis LG, Relakis K, Chrousos GP. The role of stress in female reproduction and pregnancy: an update. Ann N Y Acad Sci., 1205:69-75, 2010. *Review*

50. Voutsinas GE, Stavrou EF, Karousos G, Dasoula A, Papachatzopoulou A, **Syrrou M**, Verkerk AJ, van der Spek P, Patrinos GP, Stöger R, Athanassiadou A. Allelic imbalance of expression and epigenetic regulation within the alpha-synuclein wild-type and p.Ala53Thr alleles in Parkinson disease. Hum Mutat., 31(6):685-91, 2010.

51. Rentesi G, Antoniou K, Marselos M, **Syrrou M**, Papadopoulou-Daifoti Z, Konstandi M. Early maternal deprivation-induced modifications in the neurobiological, neurochemical and behavioral profile of adult rats. Behav Brain Res. 1;244:29-37, 2013.

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55. Basehore MJ, Michaelson-Cohen R, Levy-Lahad E, Sismani C, Bird LM, Friez MJ, Walsh T, Abidi F, Holloway L, Skinner C, McGee S, Alexandrou A, **Syrrou M**, Patsalis PC, Raymond G, Wang T, Schwartz CE, King MC, Stevenson RE. Alpha-thalassemia intellectual disability: variable phenotypic expression among males with a recurrent nonsense mutation - c.109C>T (p.R37X). Clin Genet. 2015 May;87(5):461-6

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57. Vlaikou AM, Kouroupis D., Sgourou A., Markopoulos G.S., Bagli E., Markou M, Papadopoulou Z., Fotsis T., Nakos G., Lekka M-E, E., **Syrrou M**.,Mechanical stress affects methylation pattern of *GNAS* isoforms and osteogenic differentiation of hAT-MSCs. BBA - Molecular Cell Research 1864 (2017) 1371-1381

58. Papadopoulou Z, Papoulidis I, Sifakis S, Markopoulos G, Vetro A, Vlaikou A-M, Ziegler M, Liehr T, Thomaidis L, Zuffardi O, **Syrrou M**, Kitsos G and Manolakos E. Partial monosomy 8p and trisomy 16q in two children with developmental delay detected by array comparative genomic hybridization. (2017) Mol Med Rep. 2017 Dec;16(6):8808-8818.

59. Martzoukos Y, Papavlasopoulos S, Poulos M, **Syrrou M**. Biobibliometrics (UGDH-TP53-BRCA1) Genes Connections in the Possible Relationship Between Breast Cancer and EEG. Adv Exp Med Biol. 2017;987:99-107. doi: 10.1007/978-3-319-57379-3_10.

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61. Papadopoulou Z., Vlaikou A-M, Theodoridou D., Markopoulos S.G., Tsoni K, Agakidou E., Drosou-Agakidou V., Turck W. C., Filiou D. M., **Syrrou M.** Stressful Newborn memories: pre-conceptual, in utero and postnatal events. Front. Psychiatry Front Psychiatry. 2019 Apr 18;10:220. doi: 10.3389/fpsyt.2019.00220.Review

62. Zakopoulou, V., Vlaikou, M., Darsinou, M., Alexiou, G.A., Bougias, H., Siafaka, V., Syrrou, M.' Michaelidis, Th. The chain-link between early life HPA axis programming, brain asymmetries and personality traits, in dyslexia: A case study" (under review)

63. Papadopoulou Z, Vlaikou A-M, Theodoridou D, Chaliadaki G, Vafeiadi M, Margetaki K, Turck CW, Syrrou M, Chatzi L, Filiou MD. Unraveling the serum metabolomic profile of post-partum depression (under review)