

Academic Personnel Short Profile / Short CV

University:	University of Nicosia Medical School
Surname:	Patsalis
Name:	Philippos
Rank:	Professor
Faculty:	Professor
Department:	Basic and Clinical Sciences
Scientific Domain:	Human Genetics

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title
Doctor of Philosophy (PhD)	1989-1993	The City University of New York, USA.	Human Genetics	Molecular and Cytogenetic analysis of human diploid fibroblast cells transformed by Simian Virus 40: What causes immortalization?
Master of Philosophy (MPh)	1989-1990	The City University of New York, USA.	Biology	-
Master of Arts (MA)	1987-1989	City College of the City University of New York, USA.	Biology	-
Bachelor of Science (BSc)	1982-1986	Aristotelian University of Salonica, Salonica, Greece.	Biology	-

Employment history

Period of employment		Employer	Location	Position
From	To			
2011	Present	NIPD Genetics	Nicosia, Cyprus	Founder and Chief Executive Officer and Chief Medical Officer
2014	2015	Republic of Cyprus	Cyprus	Minister of Health
2007	2014	Chief Executive Medical Director	Nicosia, Cyprus	The Cyprus Institute of Neurology and Genetics

Key refereed journal papers, monographs, books, conference publications etc.

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2018	MeDIP combined with in-solution targeted enrichment followed by NGS: Inter-individual methylation variability of fetal-specific biomarkers and their implementation in a proof of concept study for NIPT	Keravnou A, Ioannides M, Loizides C, Tsangaras K, Achilleos A, Mina P, Kypri E, Hadjidaniel MD, Neofytou M, Kyriacou S, Sismani C, Koumbaris G, Patsalis PC	PLoS One	13(6):	e0199010 doi: 10.1371/journal.pone.0199010
2	2017	Targeted capture enrichment assay for non-invasive prenatal testing of large and small size sub-chromosomal deletions and duplications	Neofytou MC, Tsangaras K, Kypri E, Loizides C, Ioannides M, Achilleos A, Mina P, Keravnou A, Sismani C, Koumbaris G, Patsalis PC	PLoS One	12(2):	e0171319. doi: 10.1371/journal.pone.0171319

3	2016	Cell-Free DNA Analysis of Targeted Genomic Regions in Maternal Plasma for Non-Invasive Prenatal Testing of Trisomy 21, Trisomy 18, Trisomy 13, and Fetal Sex	Koumbaris G, Kypri E, Tsangaras K, Achilleos A, Mina P, Neofytou M, Velissariou V, Christopoulou G, Kallikas I, González-Liñán A, Benusiene E, Latos-Bielenska A, Marek P, Santana A, Nagy N, Széll M, Laudanski P, Papageorgiou EA, Ioannides M, Patsalis PC	Clinical Chemistry	62(6):	848-55. doi: 10.1373/clinchem.2015.252502
4	2012	Technical concerns about immunoprecipitation of methylated fetal DNA for noninvasive trisomy 21 diagnosis	Patsalis PC	Nature Medicine	18(9):	1328-9. doi: 10.1038/nm.2914
5	2012	Non Invasive prenatal diagnosis of aneuploidies: new technologies and clinical applications	Papageorgiou EA, Patsalis PC	Genome Medicine	28;4(5):	46. doi: 10.1186/gm345
6	2011	FoSTeS, MMBIR and NAHR at the human proximal Xp region and the mechanisms of human Xq isochromosome formation. Human Molecular Genetics	Koumbaris G, Hatzisevastou-Loukidou H, Alexandrou A, Ioannides M, Christodoulou, C, Fitzgerald T, Rajan D, Clayton S, Kitsiou-Tzeli S, Vermeesch JR, Skordis N, Antoniou P, Kurg A, Georgiou I, Carter NP, Patsalis PC.	Human Mutation	15;20(10):	1925-36

7	2011	Fetal-specific DNA methylation ratio permits noninvasive prenatal diagnosis of trisomy 21	Papageorgiou EA, Karagrigoriou A, Tsaliki E, Velissariou V, Carter NP, Patsalis PC	Nature Medicine	17(4):	510-3
8	2008	Array-MAPH: a methodology for the detection of locus copy-number changes in complex genomes	Kousoulidou L, Männik K, Sismani C, Zilina O, Parkel S, Puusepp H, Tõnisson N, Palta P, Remm M, Kurg A and Patsalis PC	Nature Protocol	3(5):	849-65
9	2004	Fluorescence In Situ Hybridization characterization of apparently balanced translocation reveals cryptic complex chromosomal rearrangements with unexpected level of complexity	Patsalis PC , Evangelidou P, Charalambous S, Sismani C	European Journal of Human Genetics	12(8):	647-653
10	2002	Effects of transmission of Y chromosome AZFc deletions	Patsalis PC , Sismani C, Quintana-Murci L, Taleb-Bekkouche F, Krausz C, McElreavey K	Lancet	360(9341):	1222-1224

Exhibitions

Ref. Number	Date	Topic	International / Local	Location	Role in Exhibition
1	29 May – 1 June 2019	New Advancements in NIPT for prenatal screening of genetic diseases	The 10 th International Symposium on Diabetes, Hypertension, Metabolic	Florence-Italy	Keynote Speaker

			Syndrome and Pregnancy		
2	7-8 February 2019	Clinical utility of tissue and plasma DNA profiling of solid tumor cancer patients	2nd Conference "Genetic Innovations in 2019"	Kaunas, Lithuania	Keynote Speaker
3	16-18 November 2018	Liquid Biopsy	Annual Conference of ISMPO (India Society of Medical & Paediatric Oncology) - ISMPOCON	Jaipur, India	Keynote Speaker
4	5-8 September 2018	'Genomics', The omics & maternal-fetal - neonatal medicine from top research to the bed side; can we predict pregnancy complications?	XXVI European Congress of the European Association of Perinatal Medicine	St. Petersburg, Russia	Keynote Speaker
5	24-28 June, 2018	cfDNA: Single gene disorders	17th World Congress in Fetal Medicine	Athens-Greece	Invited Lecturer
6	8-9 March 2017	The Genome (1) Genetics, Material Fetal Medicine and the Great Obstretical Syndromes (2)	The 9 th International Symposium on Diabetes, Hypertention, Metabolic Syndrome and Pregnancy	Barchelona, Spain	Keynote Speaker
7	February 24-27, 2017	A New Generation Non-invasive Prenatal Test for Genetics Disorders	The First International Personalized Medicine Congress	Tehran. Iran	Keynote Speaker
8	8-9 March 2016	When IVF meets NIPT	Annual Meeting of the National Society of Obstetric and Gynegology	Tel Aviv, Israel	Keynote Speaker

9	4-7 April 2016	Multiplex Parallel Analysis of Targeted Genomic Regions for NIPT	Molecular Diagnostic Europe	Lisbon, Portugal	Keynote Speaker
10	5-7 December 2015	The Veracity Test	Advances in Fetal Medicine Course	London, UK	Invited Speaker

Research Projects.				
Ref. Number	Date	Title	Funded by	Project Role
1	2018-2021	Accelerating the Commercialisation of Non-Invasive Tests for Liquid Biopsy of Solid Tumour Cancers	Research Promotion Foundation, Cyprus	Principal Investigator
2	2019-2020	<ul style="list-style-type: none"> Development of a novel, Preimplantation Genetic Testing Kit Amount 	Research Promotion Foundation, Cyprus	Principal Investigator
3	2016-2019	Proof of Concept study for ERC Non-Invasive Prenatal Diagnosis (NIPT) discovered biomarkers	EU, European Medical Council (ERC) Advanced Grant, European Union	Principal Investigator
4	2013-2019	A Novel Non-Invasive Prenatal Diagnosis of Genetic Disorders (NIPD)	EU, European Medical Council (ERC) Advanced Grant, European Union	Principal Investigator
5	2013-2016	Development and validation of a non-invasive prenatal diagnostic (NIPD) kit for aneuploidy detection	Eurostars Program, European Union	Principal Investigator
6	2012-2016	A New Genetic LABoratory for non-invasive prenatal diagnosis (ANGELab)	EU 7 th Framework Programme (ICT), European Union	Principal Investigator

7	2009-2012	Improving Diagnoses of Mental Retardation in Children in Eastern Europe and Central Asia through Genetic Characterisation and Bioinformatics/-Statistics (CHERISH)	7 th European Union Framework Program, European Union	Principal Investigator
8	2009-2011	Point of care monitoring and diagnostics for autoimmune diseases, (POCEMON)	7 th European Union Framework Program, European Union	Principal Investigator
9	2003-2008	Special Non-Invasive Advances in Fetal and Neonatal Evaluation Network (SAFE).	6 th European Union Framework Program, European Union	Principal Investigator
10	2002-2006	The Genetic and Neurobiological Basis of X-Linked Mental Retardation (EURO-MRX)	5 th European Union Framework Program, European Union	Principal Investigator

Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2010-Present	NIPD Genetics Biotechnology Company	Board of Directors	Executive Director
2	2018-Present	Mana Products Company, USA	Board of Directors	Director
3	1998-2003 2016-2021	European Society of Human Genetics	Board of Directors	Board of Directors
4	2018-2023	Cyprus National Board for Research and Innovation	Board of Directors	Chairman
5	2013-2014 2016-2018	Cyprus Society of Human Genetics	Board of Directors	Chairman

Awards / International Recognition

Ref. Number	Date	Title	Awarded by:
1	2017	Award for his sustained high-calibre contribution to science, academia, innovation and research excellence	European University Cyprus
2	2014	Medal of the Faculty of Medicine, Vilnius University	Honored with Medal of the Faculty of Medicine of Vilnius University, Lithuania, established 1781, in recognition of his scientific achievements.
3	2013	National Award from President of the Republic of Cyprus	Honored with the Annual Award from the President of the Republic of Cyprus, Nicosia, Cyprus. In recognition of his outstanding contribution to scientific research and for being awarded the ERC Advanced Program of Excellence from the European Research Council.
4	2013	Award of Rectorate Medal – European University Cyprus	Honored with the Annual Award of Rectorate Medal of the European University Cyprus, Nicosia, Cyprus. In recognition of his contribution to medical science and his contribution to the Medical School of the European University Cyprus
5	2012	Silver Medal of the Parliament of the Republic of Cyprus	Honored with the Silver Medal of the Parliament of the Republic of Cyprus. The highest honorary distinction of the Parliament of the Republic of Cyprus to one individual for outstanding contribution to the People and Science
6	2011	Man of the Year & Scientist of the Year	Honored as Man of the Year & Scientist of the Year in Cyprus, an Annual award to one individual for outstanding contribution to the society in Cyprus. Award organized nationally by Special Edition Media and other organizations
7	2011	Outstanding Contribution Award of the University of Nicosia	Honored with Annual Outstanding Contribution Award of the University of Nicosia “Most Notable Scientific and Social Contribution” Award for 2011 by University of

			Nicosia, Nicosia, Cyprus, Presented annually to an individual or organization for outstanding contribution to the betterment of society
8	2011	US State Alumni Award– State Department of the USA	Honored with the US State Alumni Award by the State Department, USA for exceptional scientific research on the development of non-invasive prenatal diagnosis of Down syndrome.
9	2009	National Award for Innovation	Honored with the National Award for Innovation of 2009 by the National Research Promotion Foundation, Cyprus Employers and Industrialists Federation, and the Ministry of Commerce, Industry and Tourism. The most competitive National Award for Innovation given to one Researcher every Year from all specialties.
10	2008	National Award for Advanced Research	Honored with the National Award for Innovation of 2008 by the National Research Promotion Foundation. The most competitive National Award for Research given to one Researcher every Year from all specialties.

Other Achievements.

Ref. Number	Date	Title	Key Activities:
1	2014	Elected Member of the Lithuanian Academy of Science	Activities of the Academy
2	2011	Founder, Professor, Distinguish Professor, Provost of The Cyprus School of Molecular Medicine	He founded and worked as the first Professor, Provost (Rector) and CEO of the international private University School Cyprus School of Molecular Medicine offering MSc and PhD degrees in the Health sector. He secured initial funding to establish, organize and structure the University School to be self-sustained and worked as Chief Executive Director and Board members for several years.

3	1993	Founder and Head of the Department of Cytogenetics & Genomics, Cyprus Institute of Neurology & Genetics	Founder and Director of the Department of Cytogenetics and Genomics of the Cyprus Institute of Neurology & Genetics. The department is the national referral center in the field of cytogenetics and clinical genomics in Cyprus and the region. It provides medical diagnostic services, advanced research and graduate education in the fields of cytogenetics and molecular genetics
4	2004	Founding member, President of the Cyprus Society of Human Genetics	Founding member of the Cyprus Society of Human Genetics [CSHG] and serve twice as elected President of the Society.
5	2011	Founder and Head of the Translational Genetics Team, Cyprus Institute of Neurology & Genetics	Founder and Director of the Translational Genetics Team of the Cyprus Institute of Neurology & Genetics. The Translational Genetics Team is a research team working in the field of the development of novel diagnostic methods in biomedicine.
6	2011	Founder and Chief Executive Officer and Chief Medical Officer of the NIPD Genetics Public Company Ltd	Founder, Chief Executive Officer, Chief Medical Officer and member of the Board of Directors of the company NIPD Genetics Public. NIPD Genetics is an international biotechnology company and a key-player within the competitive genetic diagnostics field. Its focus is on developing and providing to the international market innovative technologies and products and it has demonstrated substantial growth.
7	1999	Founder and Chief Executive Officer of the AKESO Fertility Center, Ltd, Reproductive Medicine Company	Founder and Chief Executive Officer of the Fertility Center AKESO, responsible for the supervision and overall medical services. Fertility Center AKESO is start-up company which provides services in the Reproductive Medicine field. He raised funding to set up and grow the company.

8	2007-2014	Chief Executive Medical Director of The Cyprus Institute of Neurology and Genetics	among the first Directors since its establishment of the Institute and he worked as Chief Executive Director, Chief Medical Director and Distinguished Professor of the Institute, Chairman of the Scientific Council and Member & Secretary of the Board of Directors. As the Chief Executive Medical Director, he was responsible for the supervision and overall medical services, research and academic activities, as well as the direction of the Cyprus Institute of Neurology and Genetics. Under his administration the Institute was grown emensly and established as a world known Center of Excellence.
9	2014-2015	Minister of Health, Republic of Cyprus	Functions as the Minister of Health for the Republic of Cyprus, responsible for the Political Leadership and the overall direction of the Health Sector of the Republic of Cyprus. During his tenure as a Health Minister and under austere IMF, European Central Bank and European Commission economic measures, Prof. Patsalis implemented major reforms on the national healthcare sector. Among others, he restructured the operations of pharmaceuticals, he initiated the autonomization of public hospitals, and he introduced of a new healthcare system.
10	Current	<p>Certificates of Qualifications:</p> <ul style="list-style-type: none"> -Accredited Laboratory Director CLIA Certification, USA -Accredited Laboratory Director College of American Pathologists (CAP), USA -Certificate of Qualification as Laboratory Director, USA - Clinical Laboratory Evaluation Program, New York State Department of Health, New York, USA. - American Board Certified as Embryology Laboratory Director (ELD) HCLD (ABB), USA 	

		-American Board Certified as High Complexity Clinical Laboratory Director HCLD (ABB), USA	
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