

Soterios A. Kyrtopoulos

Emeritus Research Professor

National Hellenic Research Foundation, Institute of Chemical Biology, Vas.

Constantinou 48, 11635 Athens, Greece

Phone: +30-210-7273740

Fax: +30-210-7273677

E-mail: skyrt@eie.gr

Website: <http://www.eie.gr/nhrf/institutes/ibrb/programmes/chemcarcinogenesis-en.html>

Curriculum Vitae

Education

1972: Ph.D. in Chemistry, King's College, University of London

1969: B.Sc. in Chemistry (First Class Honours), King's College, University of London

Appointments

1. 1979-2015: Institute of Biology, Medicinal Chemistry and Biotechnology (previous name: Institute of Biological Research and Biotechnology), National Hellenic Research Foundation. Current position: Research Professor, Head of the Laboratory of Chemical Carcinogenesis and Genetic Toxicology and of the Unit of Environmental Toxicology
2. 1977-1979: Research Associate, Courtauld Institute of Biochemistry, Middlesex Hospital Medical School, University of London
3. 1974-1977: Research Assistant, Department of Chemistry, Imperial College of Science and Technology, University of London
4. 1972-1974: Tutorial Research Scholar, Department of Biochemistry, Bedford College, University of London

Research interests

Soterios A. Kyrtopoulos was, until his retirement in 2015, the Director of the Laboratory of Chemical Carcinogenesis and Genetic Toxicology at the IBPCB, where he now holds an Emeritus Research Professor position. His research interests include toxicogenomics and the use of global profiling technologies for the improved understanding of the environmental causes of human disease, with an emphasis on cancer, as well as the formulation of the emerging concept of the exposome. He has participated in a large number of collaborative EU projects, having acted as coordinator in five.

He is the author of more than 160 papers in international peer-reviewed journals, and is or has served on the Editorial Board of "Frontiers in Genetics", "Toxics", "Mutation

Research", "International Journal of Occupational Medicine and Environmental Health" and "The Open Biomarkers Journal". He has served on various national and international advisory bodies, including the EU Scientific Advisory Committee on Toxicity, Ecotoxicity and the Environment, as Greek national representative on the European Environmental Mutagen Society (EEMS) Executive Council and as a member of the scientific committee of multiple international conferences organised by the European Environmental Mutagen Society and the International Association of Environmental Mutagenesis and Genomics Societies.

Recent competitively funded research projects

1. Exposomics ("Enhanced exposure assessment and omic profiling for high priority environmental exposures in Europe"). EU FP7 Integrated project, 2012-2016
2. EnviroGenomarkers ("Genomics biomarkers of environmental health"). EU FP7 Integrated Project, 2009-2013; coordinator: S.A. Kyrtopoulos
3. COPHES ("Consortium to perform human biomonitoring on a European scale (EU FP7, Coordination Action)"). EU FP7 Coordination and Support action, 2010-2012
4. ECNIS2 ("Towards ECNIS Centre for Research and Education on Cancer, Environment and Food"). EU FP7 Coordination and Support action, 2011-2013
5. ECNIS ("Environmental Cancer, Nutrition and Individual Susceptibility"). EU FP6 Network of Excellence, 2005-2009
6. NewGeneris ("Newborns and Genotoxic exposure risks"). EU FP6 Integrated Project, 2005-2009

Publications since 2016

166. Bohler S, Krauskopf J, Espín-Pérez A, Gebel S, Palli D, Rantakokko P, Kiviranta H, Kyrtopoulos SA, Balling R, Kleinjans J. Genes associated with Parkinson's disease respond to increasing polychlorinated biphenyl levels in the blood of healthy females. *Environ Pollut.* 250 (2019):107-117. doi:10.1016/j.envpol.2019.04.005

165. Botsivali M, Kyrtopoulos SA. Transplacental exposure to carcinogens and risks to children: evidence from biomarker studies and the utility of omic profiling. *Arch Toxicol.* 93 (2019):833-857. doi: 10.1007/s00204-019-02428-3

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163 Georgiadis P, Gavriil M, Rantakokko P, Ladoukakis E, Botsivali M, Kelly RS, Bergdahl IA, Kiviranta H, Vermeulen RCH, Spaeth F, Hebbels DGAJ, Kleinjans JCS, de Kok TCM, Palli D, Vineis P, Kyrtopoulos SA; EnviroGenomarkers consortium. DNA methylation profiling implicates exposure to PCBs in the pathogenesis of B-cell chronic lymphocytic leukemia. *Environ Int.* 126 (2019):24-36. doi:10.1016/j.envint.2019.01.068

162 van Veldhoven K, Kiss A, Keski-Rahkonen P, Robinot N, Scalbert A, Cullinan P, Chung KF, Collins P, Sinharay R, Barratt BM, Nieuwenhuijsen M, Rodoreda AA, Carrasco-Turigas G, Vlaanderen J, Vermeulen R, Portengen L, Kyrtopoulos SA, Ponzi E, Chadeau-Hyam M, Vineis P. Impact of short-term traffic-related air pollution on the metabolome - Results from two metabolome-wide experimental studies. *Environ Int.* 123 (2019):124-131. doi: 10.1016/j.envint.2018.11.034.

161. Caini S, Bendinelli B, Masala G, Saieva C, Lundh T, Kyrtopoulos SA, Palli D. Predictors of erythrocyte cadmium levels in 454 adults in Florence, Italy. *Sci Total Environ.* 644 (2018) 37-44. doi: 10.1016/j.scitotenv.2018.06.347

160. Jeong A, Fiorito G, Keski-Rahkonen P, Imboden M, Kiss A, Robinot N, Gmuender H, Vlaanderen J, Vermeulen R, Kyrtopoulos S, Herceg Z, Ghantous A, Lovison G, Galassi C, Ranzi A, Krogh V, Grioni S, Agnoli C, Sacerdote C, Mostafavi N, Naccarati A, Scalbert A, Vineis P, Probst-Hensch N; EXPOsOMICS Consortium. Perturbation of metabolic pathways mediates the association of air pollutants with asthma and cardiovascular diseases. *Environ Int.* 119 (2018) 334-345. doi:10.1016/j.envint.2018.06.025

159. Vermeulen R, Saberi Hosnijeh F, Bodinier B, Portengen L, Liqueur B, Garrido-Manriquez J, Lokhorst H, Bergdahl IA, Kyrtopoulos SA, Johansson AS, Georgiadis P, Melin B, Palli D, Krogh V, Panico S, Sacerdote C, Tumino R, Vineis P, Castagné R, Chadeau-Hyam M; EnviroGenoMarkers consortium. Pre-diagnostic blood immune markers, incidence and progression of B-cell lymphoma and multiple myeloma; univariate and functionally-informed multivariate analyses. *Int J Cancer.* 2018 Apr 18. doi: 10.1002/ijc.31536

158. Turner MC, Vineis P, Seleiro E, Dijmarescu M, Balshaw D, Bertollini R, Chadeau-Hyam M, Gant T, Gulliver J, Jeong A, Kyrtopoulos S, Martuzzi M, Miller GW, Nawrot T, Nieuwenhuijsen M, Phillips DH, Probst-Hensch N, Samet J, Vermeulen R, Vlaanderen J, Vrijheid M, Wild C, Kogevinas M; EXPOsOMICS Consortium. EXPOsOMICS: final policy workshop and stakeholder consultation. *BMC Public Health.* 18 (2018):260

157. O'Callaghan-Gordo C, Kogevinas M, Pedersen M, Fthenou E, Espinosa A, Tsiapa X, Chalkiadaki G, Daraki V, Dermitzaki E, Decordier I, Farmer PB, Georgiadis P, Georgiou V, Kyrtopoulos SA, Merlo DF, Romaguera D, Roumeliotaki T, Sarri K,

Törnqvist M, Looock KV, von Stedingk H, Kleinjans J, Kirsch-Volders M, Chatzi L. Maternal diet during pregnancy and micronuclei frequency in peripheral blood T lymphocytes in mothers and newborns (Rhea cohort, Crete). *Eur J Nutr.* 57 (2018):209-218

156. Fiorito G, Polidoro S, Dugué PA, Kivimaki M, Ponzi E, Matullo G, Guarrera S, Assumma MB, Georgiadis P, Kyrtopoulos SA, Krogh V, Palli D, Panico S, Sacerdote C, Tumino R, Chadeau-Hyam M, Stringhini S, Severi G, Hodge AM, Giles GG, Marioni R, Karlsson Linnér R, O'Halloran AM, Kenny RA, Layte R, Baglietto L, Robinson O, McCrory C, Milne RL, Vineis P. Social adversity and epigenetic aging: a multi-cohort study on socioeconomic differences in peripheral blood DNA methylation. *Sci Rep.* 7 (2017):16266

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154. Plusquin M, Guida F, Polidoro S, Vermeulen R, Raaschou-Nielsen O, Campanella G, Hoek G, Kyrtopoulos SA, Georgiadis P, Naccarati A, Sacerdote C, Krogh V, Bas Bueno-de-Mesquita H, Monique Verschuren WM, Sayols-Baixeras S, Panni T, Peters A, Hebels DG, Kleinjans J, Vineis P, Chadeau-Hyam M. DNA methylation and exposure to ambient air pollution in two prospective cohorts. *Environ Int.* 108 (2017):127-136

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Exploring the nature of prediagnostic blood transcriptome markers of chronic lymphocytic leukemia by assessing their overlap with the transcriptome at the clinical stage. *BMC Genomics*. 18 (2017):239

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147. Mostafavi N, Vlaanderen J, Portengen L, Chadeau-Hyam M, Modig L, Palli D, Bergdahl IA, Brunekreef B, Vineis P, Hebels DG, Kleinjans JC, Krogh V, Hoek G, Georgiadis P, Kyrtopoulos S, Vermeulen R. Associations Between Genome-wide Gene Expression and Ambient Nitrogen Oxides. *Epidemiology*. 28 (2017):320-328

146. Vafeiadi M, Roumeliotaki T, Chalkiadaki G, Rantakokko P, Kiviranta H, Fthenou E, Kyrtopoulos SA, Kogevinas M, Chatzi L. Persistent organic pollutants in early pregnancy and risk of gestational diabetes mellitus. *Environ Int*. 98 (2017):89-95

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Anousaki D, Rantakokko P, Kiviranta H, Fthenou E, Bitsios P, Kyrtopoulos SA, Kogevinas M, Chatzi L. Prenatal exposure to persistent organic pollutants in association with offspring neuropsychological development at 4years of age: The Rhea mother-child cohort, Crete, Greece. *Environ Int.* 97 (2016):204-211

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