

PERSONAL INFORMATION

Gerassimos Arapis



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Sex Male | Date of birth 14/03/1954 | Nationality Greek, French

WORK EXPERIENCE

2003–Present **Director of Laboratory of Ecology and Environmental Sciences**
Agricultural University of Athens (Greece)

1991–Present **Professor of Ecotoxicology**
Agricultural University Of Athens
75, Iera Odos street, Athens, 118 55 Athens (Greece)
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- Teaching and research activities in the fields of Ecotoxicology and Environmental Management, with emphasis to the protection of natural, semi-natural and agricultural ecosystems.
- Impact studies of conventional pollutants and of radionuclides on crops and forests.
- Applicability studies of soil-rehabilitation technologies and of their secondary effects.
- Ecological Risk Assessment

Business or sector Education and Research

1988–1991 **Scientific collaborator**
Institute of Radiological and Environmental Protection, Research Centre for Energy, Environment and Technology (CIEMAT), Madrid (Spain)

1985–1987 **Research fellow**
Service d'Etudes et Recherches sur l'Environnement - Institut de Protection et de Sûreté Nucléaires" of the Nuclear Centre (C.E.N.), Fontenay-aux-Roses (France)

1982–1985 **Post-graduate fellow**
European Commission in the Department of Biology of the Nuclear Centre (CEN/SCK), Mol (Belgium)

1978–1982 **Research assistant**
in the University of Paris VII - "Laboratoire de Pharmacochimie Moléculaire et Laboratoire de Biologie Cellulaire Végétale", Paris (France)

EDUCATION AND TRAINING

1997 **Post-doctorate certificate in Environmental Chemistry**
CUNY, New York (United States)

1984 **Post-doctorate certificate in Radioecology**
Agricultural University of Gembloux (Belgium)

- 1982 **PhD in Ecotoxicology**
University Paris IV, Paris (France)
- 1979 **Master in Ecotoxicology**
University Paris VI, Paris (France)
- 1977 **Bachelor Diploma in Biology**
National University of Athens, Athens (Greece)

PERSONAL SKILLS

- Mother tongue(s) Greek
- Foreign language(s) French, English, Spanish

ADDITIONAL INFORMATION

Other Scientific Activities

- 2018 - Present: Director of the Postgraduate Studies Program "Integrated Plant Protection and Environmental Management Systems", of the Department of Crop Science of the Agricultural University of Athens.
- 2019 - Present: Member of the Hellenic Agricultural Academy.
- 2019 - Present: Director of the Management Body of Natura 2000 protected areas of South Peloponnese, Greece.
- 2003 - Present: Member of the Management Body of Parnassus Natural Reserve (Central Greece).
- 2001 - 2017: Member of the Advisory Group "Agriculture and Environment" of the European Commission.
- 2006 - 2016: Member of the Management Committee of the European Environmental Bureau (EEB) (Federation of European NGOs).
- 2017 - Present: Member of the Scientific Advisory Committee for Biocides in the National Organisation of Medicines (EOF).
- 2011 - 2014: Member of the Management committee of the Hellenic Society for the Environment and Cultural Heritage (NGO).
- 2006 - Present: Member of the Management Committee of the Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE) (Federation of Mediterranean NGOs).

Participation in European Programmes & Scientific Collaborations

- 2009 - 2013: COST Action FP0903 "Climate Change and Forest Mitigation and Adaptation in a Polluted Environment".
- 2002 - 2006: COST Action 631 "Understanding and Modeling Plant-Soil Interactions In the Rhizosphere Environment (UMPIRE)".
- 2001 - 2006: COST Action 849 "Parasitic Plant Management in Sustainable Agriculture".
- 2004-2019: COST Action 859 " Phytotechnologies to Promote Sustainable Land Use and Improve Food Safety".
- 2012-2016: COST Action TD 1106 "URBAN Agriculture Europe".
- 1991-1996: Participation to the International Research Programme CHECIR (CHernobyl Centre for International Research) - ECP-4 "Behaviour and fate of radio-pollutants, and consequences of nuclear accidents".
- 2010 - 2013: LIFE08 NAT/GR/000533-FRAMME - Fire Restoration Methodology for Mediterranean Forests -environmental safety & sustainability of 4 interventions in the Rhodes NATURA 2000 site

- 2006 - 2009: European Union and Greek Ministry of Education. Project "Pythagoras II - Environment" - Agricultural University of Athens: Behaviour of pollutants in the agricultural ecosystems and development of bio-indicators.

Publications (only in Scientific Journals and International editions)

Scientific Journals

VLASSI E., BEMPELOU E., LIAPIS K. AND **ARAPIS G.** (2020).

Consumer safety evaluation after monitoring of endocrine disruptor pesticide residues: A case study of Thessaly, Central Greece. *Toxicological and Environmental Chemistry*. <https://doi.org/10.1080/02772248.2020.1770256>.

SOFIA KOSTOPOULOU, GEORGIA NTATSI, **GERASIMOS ARAPIS**, KONSTANTINOS A. ALIFERIS. 2020.

Assessment of the effects of metribuzin, glyphosate, and their mixtures on the metabolism of the model plant *Lemna minor* L. applying metabolomics. *Chemosphere*. 239. Pages 104591.

SOFIA KOSTOPOULOU, GEORGIA NTATSI, **GERASIMOS ARAPIS**, KONSTANTINOS A. ALIFERIS. 2019.

Original GC/EI/MS total ion chromatograms of *Lemna* (*Lemna minor* L.) treated or not with metribuzin, glyphosate, and their binary mixtures. *Elsevier - Data in Brief*. Volume 27, December 2019, 104591.

BAUDO, R., FOUDOULAKIS, M., **ARAPIS, G.**, PERDAEN, K., LANNEAU, W., MOUZAKI-PAXINOI, A. C. & PERSOONE, G. (2015).

History and sensitivity comparison of the *Spirodela polyrhiza* microbiotest and *Lemna* toxicity tests. *Knowledge and Management of Aquatic Ecosystems*, (416), 23.

DI FELICE V., MANCINELLI R., KARKALIS K., **ARAPIS G.**, CAMPIGLIA E. (2012).

Landscape indicators to evaluate the agroecosystems sustainability: a case study in Greece. *International Journal of Ecosystems and Ecology Sciences*, 2 (2): 01-08. 2012. ISSN: 2224-4980

Foudoulakis M., Balaskas C. Csato A., Szentes C. & **Arapis G.** (2012)

Japanese quail acute exposure to methamidophos. PART I: experimental design, lethal, sub-lethal effects and cholinesterase biochemical expression. *Science of the Total Environment*, STOTEN-D-12-00223.

Perepelyatnikov G, L. PerepelyatnIvanova, T. IVANOVA, I. kalynenko, N. Grytsyuk, M. ZHYRBA, V. DAVYDCHUK, **G. Arapis.** (2007)

Radiological efficiency of agricultural countermeasures applied in radiocontaminated fields. *Journal of Environmental Engineering and Landscape Management*, vol. XV, No 4, 243-252, 2007.

Riga-Karandinos, A., C. Saitanis, **G. Arapis.** (2006)

First study of anthropogenic platinum group elements in roadside top-soils in Athens, Greece. *Water, Air and Soil Pollution*, vol. 172, pp. 3-20, 2006.

Grytsyuk, N., **G. Arapis**, L. Perepelyatnikova, T. Ivanova, V. Vynograds'ka (2006)

Heavy metals effects on forage crops yields, and estimation of elements accumulation in plants as affected by soil. *The Science of the Total Environment*. 354: 224-231, 2006.

Riga-Karandinos, A. N, C. Saitanis, **G. Arapis** (2006)

Study of the weekday-weekend variation of air pollutants in a typical Mediterranean coastal town. *International Journal of Environment end Pollution*, Vol. 27(4), pp. 300-312, 2006

Grytsyuk N., **Arapis G.**, Davydchuk V. (2006)

Root uptake of ^{137}Cs by natural and semi-natural grasses as a function of texture and moisture of soils. *J. Environmental Radioactivity*, v. 85, pp. 48-58, 2006.

Arapis G. (2005)

Root and foliar uptake of ^{134}Cs by three tobacco plant varieties. *Revue d'Ecologie (Terre et Vie)* Vol. 60: 333-340, 2005.

Arapis, G. & M. Karandinos. (2004)

Migration of ^{137}Cs in the soil of sloping semi-natural ecosystems in Northern Greece. *Journal of Environmental Radioactivity* 77:133-142, 2004.

Saitanis C., D. Katsaras, A. Riga-Karandinos, D. Lekkas, **G. Arapis** (2004)

Evaluation of ozone phytotoxicity in the greater area of a typical Mediterranean small city (Volos) and in the nearby forest (Pelion Mt.) - Central Greece. *Bulletin of Environmental Contamination and Toxicology* 72:1268-1277, 2004.

Goncharova, **N.**, **G. Arapis**, E. Lopareva (2002)

Regulation of radiopollutant uptake in the soil-plant system. *Revue de Cytologie et Biologie Végétales – Le Botaniste* 25:21-25, 2002.

SAITANIS C., M. KARANDINOS, D. LEKKAS, D. KATSARAS, A. RIGA- KARANDINOS, **G. ARAPIS** (2001)

Monitoring and biomonitoring ambient ozone in the Greek mainland. *EURASAP*, 41 newsletter, pp. 30-31, April 2001.

ARAPIS G., M. VOUTSINAS, C. SAITANIS (2000)

Heavy metals' concentrations in the atmosphere of a power plant area in Greece. *Journal of Balkan Ecology*, Vol. 3 (2) pp. 86-94, 2000.

ARAPIS G. (2000)

Natural-restoration of radiopolluted territories and impact on human health. *GLOBAL NEST: the International Journal*, Vol. 2 (1) pp. 59-66, 2000.

Arapis G., A. Chesnokov, T. Ivanova, V. Potapov, G. Sokolik (1999)

Evaluation of External Dose Rate reduction as a function of vertical migration of ^{137}Cs in contaminated soils. *Journal of Environmental Radioactivity*, Vol. 46 (2) pp. 251-263, 1999.

ARAPIS G. (1998)

Reduction of radiocontamination of vines by the method of "non-lethal defoliation". *Journal of Radioecology*, Vol. 6(1), pp. 19-21, 1998.

ARAPIS G., E. PETRAYEV, E. SHAGALOVA, O. ZHUKOVA, G. SOKOLIK (1996)

Effective migration velocity of ^{137}Cs and ^{90}Sr as a function of the type of soils in Belarus. *Journal of Environmental Radioactivity*, Vol. 34, No 2, pp. 171-185, 1996

DAVYDCHUK V., **G. ARAPIS** (1995)

Evaluation of ^{137}Cs in Chernobyl landscapes: mapping surface migration balance as background for application of rehabilitation technologies. *Journal of Radioecology*, Vol. III, p. 7-13, 1995 (1).

SADOLKO I., **G. ARAPIS**, V. DAVYDCHUK (1995)

Migration velocity of ^{137}Cs in the soils of Chernobyl area. *Journal of Radioecology*, Vol. III, pp. 7-13, 1995 (2).

MAUBERT H., I. VOVK, J. ROED, **G. ARAPIS**, A. JOUVE (1993)

Reduction of soil-plant transfer factors: mechanical aspects. *The Science of the Total Environment*, v.137, p.163-167,1993.

ARAPIS G., M. VOUTSINAS, A. MARTINEZ, R. MILLAN, J. GUTIERREZ (1992)

Behaviour of cesium in contaminated soils with and without agricultural practices. *Radiochimica Acta*, v. 58/59, p.309-310, 1992.

Arapis G., S. Puiseux-Dao, W. Baeyens, S. Bonotto (1988)

Utilisation de l'algue unicellulaire géante *Acetabularia acetabulum* comme modèle pour des études dans le domaine de la toxicologie fondamentale et appliquée. *Rapports de la Commission Internationale pour la Mer Méditerranée*, Vol. 31 (2), p. 182, 1988.

Massicot F., **G. Arapis**, R. Falcou, M. Apfelbaum, J.J. Godfroid (1986)

Activités anti-obésités du chlorhydrate de chloro-4 phénoxy-acétate de N-méthyl hydroxyméthyl-3 piperidine chez des souris traitées par l'aurothioglucose. *Compte Rendu de l'Académie des Sciences de Paris*, Vol. 303, série III, Nr. 17, Paris, p. 703-708, 1986.

Arapis G., Y. Belot, G. Nuyts, A. Bossus, S. Bonotto (1986)

Experimental investigations on tritium incorporation into the marine green alga *Acetabularia acetabulum*. *Rapports de la Commission Internationale pour la Mer Méditerranée*, Vol. 30(2), p. 108-109, 1986.

Bonotto S., **G. Arapis**, J. Mellet, D. Hoursiangou-Neubrun, F. Cinelli, P. Belcari, G.B. Gerber, R. Kirchmann (1984)

Behaviour of tritium in the marine environment: Uptake and distribution of tritiated water and of tritiated compounds in unicellular and multicellular algae. *Hydrobiologia*, Vol. 116/117, p. 187-189, 1984.

Arapis G., D. Hoursiangou-Neubrun, S. Bonotto, S. Puiseux-Dao (1984)

The apicobasal differentiation of the chloroplast population in *Acetabularia*: *In vivo* gradient of DNA synthesis. *Hydrobiologia*, Vol. 116/117, p. 189-193, 1984.

Arapis G., S. Bonotto, G.B. Gerber, R. Kirchmann (1984)

Experimental study on the uptake and biological effects of tritium on the unicellular green algae *Acetabularia*, *Chlamydomonas* and *Dunaliella*. *International Journal of Radiation Biology*, Vol. 46, Nr. 6, p. 795, 1984.

Arapis G., G. Nuyts, A. Bossus, S. Bonotto, G. Koch, G.B. Gerber, R. Kirchmann (1984)

Role of unicellular algae in the behaviour of tritium in the aquatic systems. *Role of Micro-organisms on the Behaviour of Radionuclides in Aquatic and Terrestrial Systems and their Transfer to Man*, *International Union of Radioecology*, p. 60-65, 1984.

Arapis G., S. Bonotto, G. Nuyts, A. Bossus, R. Kirchmann (1984)

Uptake and molecular distribution of ^3H in the unicellular algae *Acetabularia* and *Chlamydomonas* and its transfer through an experimental food chain. *Archives Internationales de Physiologie et de Biochimie*, Vol. 92, p. 33-34, 1984.

Bonotto S., J. Van Baelen, **G. Arapis**, G.T. Garten, C.M. Vandecasteele, C. Myttenaere, M. Cogneau

(1984)

Incorporation of technetium in several marine algae and its transfer to a higher trophic level. Archives Internationales de Physiologie et de Biochimie, Vol. 92, p. 14-15, 1984.

Bonotto S., G. **Arapis**, G.B. Gerber, R. Kirchmann (1983)

Biological effects of tritium on the unicellular green algae *Acetabularia*, *Chlamydomonas* and *Dunaliella*. Annales de l'Association Belge de Radioprotection, Vol. 8, Nr. 4, p. 281-292, 1983.

Bonotto S., G.B. Gerber, **G. Arapis**, R. Kirchmann (1982)

Modelization of tritium transfer into the organic compartments of algae. Annales de l'Association Belge de Radioprotection. Vol.7, Nr. 3-4, p. 283-292, 1982.

Hoursiangou-Neubrun D., A. Luttko, **G. Arapis**, S. Puiseux-Dao, S. Bonotto (1982)

Apicobasal gradient of chloroplast DNA synthesis and distribution in *Acetabularia*. In: Cell Function and Differentiation, Part B, FEBS-Federation of European Biochemical Societies, Vol. 65, p. 333-345, Edition Alan R. Liss Inc., New York (USA), 1982.

International publications

lohberg f., d. pickard, **g. arapis**, p. branduini, b. duzi, v. hernandez-jimenez, g. koleva, r. laviscio, l. scazzosi & m. petralli (2015)

Urban Agriculture Goes Brussels: Urban Agriculture as a Tool for the Europe 2020 Strategy. *Urban Agriculture Europe*, F. Lohrberg et al. (eds.), Jovis, 2015

FOLKESON L., BOUGHEDAOU M., JOUMARD R., ORTEGA PEREZ E, WAGER P., CAMUSO C., PRONELO C., **ARAPIS G.**, KARKALIS K., GOGER T., CHIRON M., DIMOPOULOU S. (2010)

Assessment of some indicators within an impact. In: Indicators of environmental sustainability in transport: An interdisciplinary approach to methods. COST Action 356: "EST Towards the definition of a measurable Environmentally Sustainable Transport". Eds: Jourmard R., Gudmundsson H. pp. 141-189. 2010.

WAGER P., CALDERON E., ARCE R., KUNICINA N., JOUMARD R., NICOLAS J. P., TENNOY A., RAMJERDI F., RUZICKA M., **ARAPIS G.**, MANCEBO QUINTANA S., ORTEGA PEREZ E. (2010) Methods for joint consideration of indicators. In: Indicators of environmental sustainability in transport: An interdisciplinary approach to methods. COST Action 356: "EST Towards the definition of a measurable Environmentally Sustainable Transport". Eds: Jourmard R., Gudmundsson H. pp. 191-271. 2010.

LOSTER-MANKA A., K. KARKALIS & **G. ARAPIS** (2010)

An example of impact assessment: Athens restriction ring. In: Indicators of environmental sustainability in transport: An interdisciplinary approach to methods - Annex 2. COST Action 356: "EST Towards the definition of a measurable Environmentally Sustainable Transport". Eds: Jourmard R., Gudmundsson H. pp. 287-291. 2010.

KARKALIS K., **ARAPIS G.** KEHAGIA F., DIMOPOULOU S & JOUMARD R. (2010)

Description of 49 chains of causalities: Chains 14,15,16,18,19,22,31,32,33,34,38,44,46,49. In: Indicators of environmental sustainability in transport: An interdisciplinary approach to methods. COST Action 356: "EST Towards the definition of a measurable Environmentally Sustainable Transport". Annex 6. Eds: Jourmard R., Gudmundsson H.. pp. 318-346. 2010.

GOGER, T., KARKALIS, K. & **ARAPIS, G.** (2009)

A proposal for environmental indicators. Chapter 4 in: "Integrated Assessment of European Impact of Traffic and Transport Infrastructure". Eds: Calderon E., Pronello C., Goger T., COST Office - ISBN 978-84-7493-401-4, pp.169-274. 2009.

Arapis G. (2006)

From molecules to ecosystems: ecotoxicological approaches and perspectives. Pages 23-37 in G. Arapis, N. Goncharova and Ph. Baveye, editors. Ecotoxicology, Ecological Risk Assessment and Multiple Stressors. Springer Verlag. 2006.

Grytsyuk, N., V. Davydchuk, **G. Arapis** (2006)

Application of GIS technologies in ecotoxicology: a radioecological case study. Pages 251-260 in G. Arapis, N. Goncharova and Ph. Baveye, editors. Ecotoxicology, Ecological Risk Assessment and Multiple Stressors. Springer Verlag. 2006.

Riga-Karandinos A., C. Saitanis, **G. Arapis** (2006)

Air pollution assessment in Volos coastal town, Greece. Pages 295-302 in G. Arapis, N. Goncharova and Ph. Baveye, editors. Ecotoxicology, Ecological Risk Assessment and Multiple Stressors. Springer Verlag. 2006.

Kapustka, L., N. Goncharova, **G. Arapis** (2006)

Methods and tools in ecotoxicology and ecological risk assessment. Pages 345-352 in G. Arapis, N. Goncharova and Ph. Baveye, editors. Ecotoxicology, Ecological Risk Assessment and Multiple Stressors. Springer Verlag. 2006.

ARAPIS G., I. MASSAS, V. SKARLOU (2001)

Limitations and perspectives of radioecological assessment for soil-plant systems in Greece. In: Assessment and Management of Environmental Risks (I. Linkov & J. Palma-Oliveira, eds), NATO Science Series IV: Earth and Environmental Sciences, Vol. 4, pp. 385-390, Kluwer Academic Publishers, 2001.

ARAPIS G., D. DASKALAKIS, A. GODORA (1999)

Behaviour of Cs-137 in sloping semi-natural ecosystems in Greece. In: Contaminated Forests (I. Linkov & W. Schell, eds.), NATO Science Series 2: Environmental Security, Vol. 58, pp. 113-119, Kluwer Academic Publishers, 1999.

KUTLAKHMEDOV Y., V. DAVYDCHUK, **G. ARAPIS**, V. VYSHNYAKOVA (1999)

Radiocapacity of forest ecosystems. In: Contaminated Forests (I. Linkov & W. Schell, eds.), NATO Science Series 2: Environmental Security, Vol. 58, pp. 51-61, Kluwer Academic Publishers, 1999.

DAVYDCHUK V. & **G. ARAPIS** (1996)

Geographic assistance of decontamination strategy elaboration. In: The radiological consequences of the Chernobyl accident. Karaoglou, Desmet, Kelly, Mentzel (Eds.), EUR 16544 EN, p.491-494 (1996).

ARAPIS G., E. SOBOTOVICH, G. BONDARENKO, I. SADOLKO, E. PETRAYEV, G. SOKOLIK (1996)

Self-restoration of contaminated territories. In: The radiological consequences of the Chernobyl accident. Karaoglou, Desmet, Kelly, Mentzel (Eds.), EUR 16544 EN, p.465-476 (1996).

ARAPIS G., L. PEREPELYATNIKOVA (1995)

Influence of agrochemical countermeasures on the yield of crops grown on areas contaminated by Cs-137. In: Aspects on Environmental Toxicology. Kotsaki-Kovatsi, Vafiadou (Eds.) Thessaloniki-Greece, p.228-232, 1995.

ARAPIS G., V. DAVYDCHUK, G. SOKOLIK (1995)

Qualitative / quantitative evaluation of self-restoration. In RISO-R-828 EN: Practical Means for

Decontamination 9 Years after a Nuclear Accident. Roed, Andersson, Prip (Eds.), p. 70-71, Riso National Laboratory, Roskilde, Denmark, December 1995.

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Improvement of practical countermeasures against nuclear contamination in the agricultural environment. Report CIEMAT, Madrid, Spain, SIEMAT/PRYMA/GIT/M5A03/-2/1989, p.1-33, 1989.

Marti J.M., **G. Arapis**, E. Iranzo (1988)

Evaluation of some countermeasures applied against nuclear contamination of land areas. CIEMAT/PRYMA/GIT Report M5A03/-1/88, Madrid, p. 1-105, 1988.

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Tritium and technetium uptake and distribution in three marine algae. In: Oceanic Processes in Marine Pollution, Vol. 1, J.M. Capuzzo and D.R. Kester (Eds.), Chapt. 13, p. 133-144, Florida (USA), 1987.

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Gradient of photosynthetic capacity in chloroplast isolated from vegetative cells of *Acetabularia*. In: *Acetabularia* - 1984. S. Bonotto, F. Cinelli and R. Billiau (Eds.), CEN/SCK Report BLG 583, p. 279-286, Mol, Belgium, 1985.

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On the life history of *Acetabularia acetabulum* (= *mediterranea*) in the laboratory and nature. CEN/SCK Report BLG 567, p. 1-18, Brussels, August 1984.