

Curriculum Vitae
JOAN O. GRIMALT
(elaborated on November 5, 2009)

PRESENT PROFESSIONAL POST

Research Professor (Profesor de Investigación) of the Spanish Council for Scientific Research (CSIC) (since 1992)

Director of the Institute of Environmental Assessment and Water Research (IDÆA) from CSIC (since 2008)

Administrative status: Permanent. **Dedication:** Full time.

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PREVIOUS PROFESSIONAL POSTS

Assistant Professor Spanish Council for Scientific Research 1986-89

Associate Professor Spanish Council for Scientific Research 1990-91

Head of Department Environmental Chemistry (IDÆA-CSIC) 1986-98

FORMATION

Chemical Engineer by the Chemical Institute of Sarria. Ramon Llull University (1973-1978)

Degree in Chemical Sciences by the Autonomous University of Barcelona (1979)

PhD in Chemical Sciences by the Autonomous University of Barcelona (1983)

POST-DOCTORAL STAGES

College of Oceanography of the Oregon State University (1983, USA)
School of Chemistry of the University of Bristol (1985, United Kingdom).

RESEARCH TOPIC

Study of natural and anthropogenic organic compounds as markers of the health status of the ecosystems and organisms (including humans) with special emphasis on the problems related with hydrocarbon and crude oil pollution. These tasks can be grouped within the field of *Environmental Organic Geochemistry*.

In this context I am leading a research group on environmental sciences and geochemistry that has been active during the last 25 years. Our tools are chromatography and mass spectrometry.

UNESCO codes: 250307. 2391.

MANAGEMENT POSITIONS IN CSIC

Head of the Department of Environmental Chemistry in Barcelona (1986-1998)

Vice-director of the Institute of Chemical and Environmental Research of Barcelona (1999-2008)

Member of the Advisory Scientific Council of CSIC (2000-2004; 2009-present).

MANAGEMENT POSITIONS IN PROFESSIONAL ORGANIZATIONS

Member of the Board Committees of *European Association of Organic Geochemists* (1991-99) Chairman of the Awards Committee (1997-99)

Group of Chromatography and Related Techniques from the Spanish Royal Society of Chemistry (1980-2001; 1988-92 secretary)

Spanish Society of Chromatography and Related Techniques (Vice-chairman from 2001; Chairman 2007-present)

Conseil Scientifique of the Institut National de l'Environnement et les Risques Industriels (Verneuil-en-Halatte.France; 1992-96)

Council of Industrial Residues of the Agency of Residues of the Generalitat de Catalunya (from 1990). Chairman (1995-2002).

PUBLICATIONS

480 papers published to date, 365 of them in journals included in the ISI Web of Knowledge

Scientist included in the *Essential Science Indicators* of the *ISI Web of knowledge* (November 1, 2009) in the fields of *Geosciences* (1215 quotations) and *Environment/Ecology* (1158 quotations). For *all fields* the number of quotations is 2899.

Hirsch index (H = 43)

EDITORIAL TASKS

Editor of special issues in *Journal of Chromatography* (5), *Organic Geochemistry* (2), *Science of the total Environment* (1), *Marine Pollution Bulletin* (1) and *Analytical and Bioanalytical Chemistry* (1).

Editor of 5 book on Chromatography (Elsevier) and 1 on Organic Geochemistry (AIGOA)

Associated editor of *Organic Geochemistry* (from 1995 to 2006), *Water, Air and Soil Pollution* (from 1999) and *Science of the total Environment* (from 2004).

SUPERVISION OF PH.D THESES

Supervision of 35 Ph.D. theses defended at the universities of Barcelona (19), Autonomous of Barcelona (5), Technical of Catalonia (6), Basque Country (2), Ramon Llull (1), Seville (1) and Bristol (1). All them have obtained the highest qualifications.

Supervision of 58 master theses.

RESEARCH PROJECTS AND CONTRACTS

Participation in 90 research projects (34 funded by the European Union) having coordinated 34 of them.

AWARDS

1980. Extraordinary Award "P. Gil" in the Graduation as Chemical Engineer in the Sarria Chemical Institute (*individual*)

1983. San Alberto Magno Award (National Association of Spanish Chemists) to Research in Chemistry (*individual*)

1986. First "Hewlett-Packard" Award in Mass Spectrometry for research in petroleum biomarkers (*individual*)

1987. Perkin Elmer Award for el Analysis of Polycyclic Aromatic Hydrocarbons in Marine and Urban Aerosols (*collective*)

1999. Merck, Sharp & Dohme Award to the best scientific paper on research in epidemiology published in 1999 in Spain (for a paper published in *the Lancet*) (*collective*)

1999. Academy of Medical Sciences of Catalonia and the Balearic Islands. Catalano-Balear Society of Oncology. 2nd Award to the Best paper Publisher in 1999 (for a paper published in *the Lancet*) (*collective*)

2000. Award of the City Hall of Barcelona (Premio Ciudad de Barcelona) to Scientific Research (*collective*)

2001. Award on Environmental Sciences 2001. Catalan Academia (Institut d'Estudis Catalans) (*individual*)

2001. Best Paper Award (Honorable mention) from Journal of Paleontology for the paper published in this journal in 2000 (74, 158-178, 2000) (*collective*)

2005. King Jaume I award (Premio Rey Jaime I) to the Protection of Nature. Generalitat Valenciana (Autonomous Government of the Valencian Community) (*individual*)

2008. Award "Jose Antonio Garcia Dominguez" given by the Spanish Society of Chromatography and Related Methods to the second best oral communication presented at the 12th Conference on Instrumental Analysis (Barcelona) (*collective*)

COURSES AND TUTORIAL ACTIVITIES

Ph.D. Course on "Marine Biogeochemistry" within the Ph.D. Program of Marine Sciences of the Technical University of Catalonia and the University of Barcelona, 1988-2006.

Ph.D. course of the Mobile Chair "José Luís Cánovas": Chemical and Molecular Frontiers on Environmental Research for the new Millennium. Held in Río Cuarto (Argentina, 2001), Cuernavaca (México, 2002), Concepción (Chile, 2003), Montevideo (Uruguay, 2004), Araraquara (Brazil, 2005) and San José (Costa Rica, 2006).

ORGANIZATION OF SCIENTIFIC MEETINGS, WORKSHOPS AND COURSES (main events)

15th International Meeting on Organic Geochemistry. 1991. Manchester (United Kingdom)

16th International Meeting on Organic Geochemistry. 1993. Stavanger (Norway)

17th International Meeting on Organic Geochemistry. 1995. San Sebastian (Chairman of the Scientific Committee)

12th Conference on Instrumental Analysis. 2008. Barcelona. (Chairman of the Scientific Committee)

9th Scientific Meeting of the Spanish Society of Chromatography and Related Techniques. 2009. Donostia-San Sebastian. (Chairman of the Scientific Committee)

THE TEN MOST CITED PAPERS

L. Wang, M. Sarnthein, H. Erlenkeuser, **J.O. Grimalt**, P. Grootes, S. Heilig, E. Ivanova, M. Kienast, C. Pelejero and U. Pflaumann . East Asian monsoon climate during the Late Pleistocene: high-resolution sediment records from the South China Sea. *Marine Geology* **156**, 245-284 (1999)
quotations per year: 22.9

S. Meijer, W.A. Ockenden, A. Seetman, K. Breivik, **J.O. Grimalt** and K.C. Jones. Global distribution and budget of PCBs and HCB in background surface soils: implications for sources and environmental processes. *Environmental Science and Technology* **37**, 667-672 (2003)
quotations per year: 18.9

I. Cacho, **J.O. Grimalt***, C. Pelejero, M. Canals, F.J. Sierro, J.A. Flores and N. Shackleton- Dansgaard-Oeschger and Heinrich event imprints in Alboran Sea paleotemperatures- *Paleoceanography* **14**, 698-705 (1999)
quotations per year: 15.4

C.M. Villanueva, K.P. Cantor, **J.O. Grimalt**, N. Malats, D. Silverman, A. Tardon, R. Garcia-Closas, C. Serra, A. Carrato, G. Castaño-Vinyals, R. Marcos, N. Rothman, F.X Real, M. Dosemeci and M. Kogevinas- Bladder cancer and exposure to water disinfection by-products through ingestion, bathing, showering and swimming pool attendance. *American Journal of Epidemiology* **165**, 148-156 (2007)
quotations per year: 14.6

B. Martrat, **J.O. Grimalt***, C. Lopez-Martinez, I. Cacho, F.J. Sierro, J.A. Flores, R. Zahn, M. Canals, J.H. Curtis and D.A. Hodell- Abrupt Temperature Changes in the Western Mediterranean over the Past 250,000 Years. *Science* **306**, 1762-1765 (2004)
quotations per year: 11.8

J.O. Grimalt, M. Ferrer and E. Macpherson- The mine tailing accident in Azanalcollar. *Science of the Total Environment* **242**, 3-11 (1999)
quotations per year: 11.7

B. Martrat, **J.O. Grimalt***, N.J. Shackleton, L. de Abreu, M.A. Hutterli and T.F. Stocker. Four climate cycles of recurring deep and surface water destabilizations on the Iberian Margin. *Science* **317**, 502-507 (2007)
quotations per year: 11.6

M.A. Sicre, J.C. Marty, A. Saliot, X. Aparicio, **J.O. Grimalt*** and J. Albaigés. Aliphatic and aromatic hydrocarbons in different sized aerosols over the Mediterranean Sea: Occurrence and Origin. *Atmospheric Environment* **21**, 2247- 2259 (1987)
quotations per year: 11.6

I. Cacho, **J.O. Grimalt***, M. Canals, L. Sbaffi, N.J. Shackleton, J. Schönfeld and R. Zahn- Variability of the western Mediterranean Sea surface temperature during the last 25,000 years and its connection with the Northern Hemisphere climatic changes. *Paleoceanography* **16**, 40-52 (2001)

quotations per year: 10.7

O. Marchal, I. Cacho, T. Stocker, **J.O. Grimalt**, E. Calvo, B. Martrat, N. Shackleton, M. Vautravers, E. Cortijo, S. van Kreveld, C. Anderson, N. Koç, M. Chapman, L. Sbaffi, J.-C. Duplessy, M. Sarnthein, J.-L. Turon, J. Duprat and E. Jansen. Apparent long-term cooling of the sea surface in the northeast Atlantic and Mediterranean during the Holocene. *Quaternary Science Reviews* **21**, 455-483 (2002)

quotations per year: 9.5

More information in: <http://www.cid.csic.es/homes/grimalt>