

## Anne-Marie DELORT

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Institut de Chimie de Clermont-Ferrand (ICCF)  
Université Blaise Pascal UMR 6296 CNRS

Research Director at the CNRS,  
Head of the laboratory ICCF

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1980: **Engineer and master degree in Biology**, Clermont-Ferrand, France

1985: **Ph.D.** in Physical sciences, Centre d'Etudes Nucléaires de Grenoble, France

1985: **HDR** (Habilitation à Diriger les Recherches), Université Joseph Fourier, Grenoble.

1985: **Post-doc**, CNRS-grant, Laboratory of medical biochemistry, University of Auvergne

1986: **Research Scientist**, CNRS-Blaise Pascal University, Laboratory SEESIB

1988-1989: **Invited researcher**. Department of Biochemistry, **University of Oxford**  
(Royal Society grant)

Since 1998: **Research Director**, CNRS-Blaise Pascal University, Laboratory ICCF.

Since 2012: **Head of the laboratory ICCF** (Institute of Chemistry of Clermont-Ferrand)

In addition to a general background in chemistry and molecular biology, Anne-Marie Delort's expertise covers Microbiology and NMR spectroscopy, and more specifically *in vivo* NMR, metabolic NMR and metabolomics. She specifically studies microbial metabolism in relation with the environment. She has been a pioneer in studying the microbial population in clouds. Recent studies concern the role of microorganisms in atmospheric chemistry and microphysics.

### 5 recent papers

1. Husárová S., Vaitilingom, M., **Deguillaume, L.**, **Mounir, T.**, **Vinatier, V.**, **Sancelme, M.**, **Amato, P.**, Matulová, M., **Delort, A.-M.** *Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry.* Atmos. Environ. 2011, 45, 6093-6102.
2. M.Vaitilingom, T. Charbouillot, L. Deguillaume, R. Maisonobe, M. Parazols, P. Amato, M. Sancelme, **A.-M. Delort.** *Atmospheric chemistry of carboxylic acids: microbial implication versus photochemistry.* Atmos. Chem. Phys., 2011, 11, 8721-8733.
3. E. Attard, H. Yang, **A.-M. Delort**, P. Amato, U. Pöschl, C. Glaux, T. Koop, and C.E. Morris. *Effects of atmospheric conditions on ice nucleation activity of Pseudomonas.* Atmos. Chem. Phys., 2012, 12, 10677-10677.
4. M. Vaitilingom, E. Attard, N. Gaiani, M. Sancelme, L. Deguillaume, A. Flossmann, P. Amato, **A.-M. Delort.** *Long-term features of cloud microbiology at the puy de Dôme (France).* Atmos. Environ., 2012, 56, 88-100.
5. M. Vaitilingom, L. Deguillaume, V. Vinatier, M. Sancelme P. Amato, N. Chaumerliac, **A.-M. Delort.** *Potential impact of microbial activity on the oxidant capacity and organic carbon budget in clouds.* Proc. Nat. Acad. Sci. (USA), 2013, 110, 559-564. [www.pnas.org/cgi/10.1073/pnas.1205743110](http://www.pnas.org/cgi/10.1073/pnas.1205743110).