

CURRICULUM VITAE

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Education

- 1964-1965 *License ès Sciences Physiques*, Toulouse and Marseille (7 certificates)
- 1966 *DEA d'Optique Supérieure*, option Space Physics , Marseille
- 1967 *Doctorat de Spécialité (Optics)*, Laboratory of Space Physics , Marseille.
"Etude et réalisation d'un spectromètre à réseau à exploration rapide."
- 1976 *Doctorat ès Sciences*, University of Aix-Marseille II,
"Caractérisation de constituants biologiques par l'analyse de mesures spectrométriques et potentiométriques."

Patent N° 1537 142 Go1j//Go2b 7-7-1967: "*Spectromètre à exploration rapide.*"

Publications over 90 publication in international peer review journals

Recent significant papers :

- Zhang F., Yu-Zhang K., Zhao S., Xiao T., Denis M., Wu L.F. (2010) Metamorphosis of Magnetospirillum magneticum AMB-1 cells. *Chinese Journal of Oceanology and Limnology* 28: 1-6.
- Denis M., Thyssen M., Martin V., Manca B. and Vidussi F. (2010) Ulrophytoplankton winter distribution in the Eastern Mediterranean Sea. *Biogeosciences Discuss.* 6 : 6839-6887.
- Thyssen M. Beker B. Ediger D. Yilmaz D. Garcia N. Denis M. (2011) Phytoplankton distribution during two contrasted summers in a Mediterranean harbour: combining automated submersible flow cytometry with conventional techniques. EMAS. DOI: 10.1007/s10661-010-1365-z.
- Denis M., Thyssen M., Martin V., Manca B. and Vidussi F. (2010) Ulrophytoplankton basin-scale distribution in the Eastern Mediterranean Sea in winter: link to hydrodynamism and nutrients . *Biogeosciences*. 7 : 2227-2244, doi:10.5194/bg-7-2227-2010, 2010.
- Masmoudi S., Denis M., Maalej S. (2010) Inactivation of the gene katA or sodA affects the transient entry into the viable but non-culturable response of *Staphylococcus aureus* in natural seawater at low temperature. *Marine Pollution Bulletin.* 60: 2209-2214.
- Van Dijk M., Grégori G., Hoogveld H., Rijkeboer M., Denis M., Malkassian A., Gons M., (2010) Optimizing the setup of a flow cytometric cell sorter for efficient quantitative sorting of long filamentous cyanobacteria. *Cytometry* 77A: 911-924. (doi.10.1002/cyto.a.20946).
- Masmoudi S., Denis M., Grégori G., Maalej S. (2010) Conventional and flow cytometry characterization of heterotrophic prokaryotes in Sfax solar Saltern, Tunisia. *Marine Pollution Bulletin*, 60: 2209-2214.
- Trigui H., Masmoudi S., Brochier-Armanet C., Barani A., Grégori G., Denis M., Dukan S., Maalej S. (2011) Characterization of heterotrophic prokaryote subgroups in the Sfax coastal solar salterns by combining flow cytometry cell sorting and phylogenetic analysis. *Extremophiles* 15: 347-358. DOI 10.1007/s00792-011-0364-5
- Thyssen M., Ferreyra G., Moreau S., Schloss I., Denis M., Demers S. (2011) Combined effects of ultraviolet radiations B and temperature increase on phytoplankton dynamics and cell cycle using pulse shape recording flow cytometry. *J. Exp. Mar. Biol. Ecol.* 406: 95-107.
- Thyssen M., Denis M. (2011) Temporal and spatial high-frequency monitoring of phytoplankton by automated flow cytometry and pulse-shape analysis. *Proceedings of the 13th French-Japanese Oceanography Symposium.* DOI 10.1007/978-90-481-8630-3_72
- Grégori, G., Denis, M., Duhamel, S., van Wambeke, F. (2011) Analysis of phosphatase activity from aquatic heterotrophic bacteria at the single cell level by flow cytometry: example of development achieve at the Regional Flow Cytometry Platform for Microbiology. *Proceedings of the 13th French-Japanese Oceanography Symposium.* DOI 10.1007/978-90-481-8630-3_72.

- Mébarek, L., Denis, M., Grégori, G. (2011) A new method to measure prokaryote respiration at the single cell level by flow cytometry. Proceedings of the 13th French-Japanese Oceanography Symposium. DOI 10.1007/978-90-481-8630-3_72.
- Zhao L., Denis M., Barani A., Beker B., Manté C., Xiao T., Grégori G. (2012) Possible bloom of free trichomes in the Bay of Marseille, NW Mediterranean Sea: an anomaly evidenced by flow cytometry. *Journal of Plankton Research* 34(8): 711-718.
- Zhao L., Zhao Y., Zhang W., Zhou F., Zhang C., Ren J., Ni X., Denis M., Xiao T. (2013) Picoplankton distribution in different water masses of the East China Sea in autumn and winter. *Chinese Journal of Oceanology and Limnology* 31: 247-266.
- Hamdi I., Thyssen M., Caniaux G., Denis M. (2012) Spatial distribution of ultraphytoplankton in the North East Atlantic (POMME study area) during Spring 2001. *J. Oceanogr. Res. Data.* 5: 1-22.
- Rekik M., Denis M., Aleya L., Maalej S., Ayadi H. (2013) Spring plankton community structure and distribution in the north and south coasts of Sfax (Tunisia) after north coast restoration. *Mar. Pollut. Bull.*, 67 (1-2) : 82-93. <http://dx.doi.org/10.1016/j.marpolbul.2012.11.029>

Contributions to books : 6

One book edited: *Océanologie, actualité et prospective* (1989) 388 pp., ISBN 2-907752-00-6

Communications to meetings: over 140 communications

Master student supervision: 17

Thesis supervision : 9

Postdoc supervision : 5

Hosting visiting scientists: 5

Member of 15 thesis jury and 3 HDR jury

Organiser of 7 Meetings (3 international ones)

Coordinator or PI of 7 contract amounting to > 1 M€

Past member of different councils and scientific societies

Participation to 11 cruises, one in the Southern Ocean as Chief scientist (ANTARES 4, 1999)

Reviewer for 22 scientific journals