

Biography

Name: Mohammad I. Abdel-Hamid

Occupation: Associate Prof, Applied Phycology, Botany Department, Faculty of Science, Mansoura University, Egypt

Abdel-Hamid's scientific expertise started in **water**. Since, 1984 his scientific researches have been primarily concerned with the integrated assessment, and protection of freshwater quality. He has been working with the River Nile in Egypt, for more than 25 years. Water quality characterization is the domain of his researches. Eco-toxicology of industrial pollution is a particular research topic. Bio-assessment of water quality using freshwater microalgae deserved special research interest. Toxicity assessment of pollutants, using standard algal bioassays and biosensors, is a special area of research expertise. Deep research attention was focused on using immobilized algal biosensors for bio-monitoring of water quality. He has largely contributed to the assessment and protection of water quality at both national and international levels. His work on aquatic **environments** gave him enormous knowledge about the ecology of freshwater microalgae. He gained deep experience, and eventually has developed good expertise in isolation, identification and culturing of microalgae. He gave considerable attention to mass production of microalgae as vital feedstock of useful bio-products and molecules from algae. Thus his research activities and talents were partially shifted towards the field of **algal biotechnology**. Special interest and great attention were paid to the use of algal biomass as feedstock for the production of biofuels, mainly biodiesel, bioethanol, and jet fuels.

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