



October 28, 2011

Dear Sir or Madam:

I am writing to announce the exciting news that **Dr. David DeMarini received the 2011 Alexander Hollaender Award**. This award is conferred annually by the Environmental Mutagen Society (EMS) in recognition of outstanding contributions in the application of the principles and techniques of environmental mutagenesis to the protection of human health. Given Dr. DeMarini's association with your institution/organization, the EMS Public Relations and Communications Committee thought you might wish to publicize Dr. DeMarini's receipt of this Award within your institution/organization.

Alexander Hollaender made significant contributions to radiation biology and mutation research and is remembered for his leadership in promoting scientific exchange between American scientists and scientists from developing countries. Dr. DeMarini's career embodies many of the principles for which Alexander Hollaender is remembered. Dr. DeMarini's outreach to scientists in developing countries and his efforts toward strengthening ties between scientists across the globe are unmatched. He chaired the EMS Hollaender Committee for three years and helped fund, co-organize, and/or teach 10 of the 16 Hollaender Courses since 1993. Dr. DeMarini has taught genetic toxicology as part of Hollaender Courses in Mexico, Argentina, South Africa, Egypt, Brazil, Zimbabwe, Morocco, Chile, Colombia, and India. He served as Program Committee Chair for the very successful 9th International Conference on Environmental Mutagens (ICEM) held in San Francisco in 2005. Immediately after the ICEM, Dr. DeMarini was elected to a four-year term as President of the International Association of Environmental Mutagen Societies. As summarized by one of Dr. DeMarini's colleagues, "his tireless international activities in virtually every continent have provided much needed guidance, scientific advice and instruction to quite literally 100's of scientist in less developed nations."

Dr. DeMarini's nomination and accompanying letters of support cited his important scientific contributions to a remarkable number of different, interconnected areas of mutation research. Dr. DeMarini has studied many different mutagens, their mutation spectra, and molecular mechanisms of mutagenesis. He has made important scientific contributions regarding the mutagenicity of air and combustion emissions. His research has identified and characterized risks to public health and been used to shape public policy. Research conducted by Dr. DeMarini and his collaborators has greatly advanced our understanding of the complex mixtures of organic and inorganic chemicals present in drinking water, focusing, in large part, on disinfection by-products in drinking water. Work by Dr. DeMarini and his collaborators has provided important molecular epidemiology data showing that drinking water is a human bladder carcinogen. Dr. DeMarini's work studying the mutagenicity of all types of test articles using the *Salmonella* assay is well-known. Over the years, Dr. DeMarini and collaborators have conducted a remarkable set of studies to understand the DNA targets for the recovery of mutations in the various *Salmonella* strains, the mechanisms by which mutations occur spontaneously, and the types of mutations induced by various classes of agents. Innumerable studies examining the potential mutagenicity of compounds would not have been possible to interpret accurately were it not for the sound mechanistic understanding of the *Salmonella* assay provided by research led largely by Dr. DeMarini. In

addition, Dr. DeMarini and collaborators have conducted critical molecular epidemiology studies over the years, providing key data that has had public health impact. In some cases, the data was used by IARC to upgrade the evaluation of certain agents (e.g., coal emissions, wood smoke, and o-nitrotoluene). In other case, data generated by Dr. DeMarini and collaborators has served to draw attention to particular regulatory issues. As expressed by a colleague, Dr. DeMarini "has made it his life's work to ensure that scientific rigor and discipline in the area of mutagenesis be made practical and have an impact on global understanding of environmental problems and their solutions."

Thus, David has made extraordinary scientific contributions to multiple areas of environmental mutagen research and public health protection. Dr. DeMarini's exceptional career in environmental mutagen research has produced more than 170 publications, including 140 journal articles, 22 book chapters, 21 technical reports, 5 book reviews, 2 letters to the editor, as well as 5 books that he edited. This productivity is a direct consequence of Dr. DeMarini's ability to identify critical questions and form strong collaborations, coupled with the energy and enthusiasm he brings to every endeavor.

Another way in which David has shaped the field of environmental mutagenesis is through his extensive work as an Editor and Editorial Board Member. His editorial positions include Editor of Mutation Research--Reviews (1998-present) and Book Review Editor of Environmental and Molecular Mutagenesis (1989-1993). His Editorial Board memberships include Mutation Research (1985-1997), Environmental and Molecular Mutagenesis (1984-1989, 1993-present), Mutagenesis (1992-1995, 2006-present), Environmental Mutagens and Carcinogens (2001-2005), Environmental Health Perspectives (1988-1993), Teratogenesis Carcinogenesis and Mutagenesis (1990-1992), Pan-African EMS Newsletter (1994-present), Genes and Environment (2006-present), and Frontiers in Cancer Epidemiology and Prevention (2011-present).

Finally, Dr. DeMarini has mentored many graduate and post-doctoral fellows who are now leaders in the field of environmental mutagenesis. One of his co-workers noted that "his enthusiasm for environmental genetic toxicology is very contagious as seen in his ability to collaborate with many scientists in many other fields and the excitement seen in all his trainees." One of his trainees noted that "the infectious joy of obtaining the data and publishing these data was another gift this excellent mentor bestowed on this mentees by example." Thus Dr. DeMarini epitomizes Alexander Hollaender's dedication and unselfish contributions to support and train students in environmental mutagenesis and its application to improving human health and the EMS is very proud to announce Dr. DeMarini as the 2011 Alexander Hollaender Award winner.

Feel free to contact me if you have any questions related to publicizing the presentation of the 2011 EMS Alexander Hollaender Award to Dr. David DeMarini.

Regards,

Dr. Mugimane Manjanatha
Chair, Communications and Public Relations Committee
Environmental Mutagen Society
National Center for Toxicological Research
3900 NCTR Rd., Jefferson, AR 72079
Phone: 870-543-7098
Fax: 870-543-7393
Email: mugimane.manjanatha@fda.hhs.gov