

## Dose Response Funding

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to:

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Dear Dr. Cardarelli:

Thank you for asking me to provide a brief overall summary of my funding as a UMass faculty member in the area of dose response. First, please note that I am professor at a state institution. This means that my entire history

of extramural funding is open for the public to see. These listings are managed and maintained by the University administration and is required to do this for all faculty. While I have been a faculty member at

UMass since 1976 I started my interested here at UMass on the topic of hormesis in 1985 when I was invited to speak at the first ever conference on Radiation Hormesis in August, 1985. The travel and related expenses were

Paid by the conference organizers. My team published a paper in Health Physics based on that presentation two years later in 1987. The next hormesis involvement for me was my organizing a 2-3day meeting of about 16 high level scientists from the federal government (e.g. EPA, DOE), the private sector and universities) to define a strategy to assess the concept of hormesis, in general, that is, chemical and radiation. This meeting was sponsored by the Electric Power Research Institute that paid for some travel, room rentals, meals, etc. This meeting lead to the creation of an entity called BELLE, the Biological Effects of Level Exposure group that I chaired. It was to publish a scholarly newsletter-journal-like publication on hormesis and related topics and distribute the Newsletters for free to about 10,000 people around the globe. The BELLE group would also conduct a series of workshops and conferences and have the proceedings published in leading venues, all of which was done. To achieve these goals funding was received from a number of federal agencies (e.g. EPA, DOE, ATSDR) and a range of private sector organizations. None of the contributions were considered "research" grants, principally tied to conference support and paying costs for mailing the newsletters. Research support for hormesis was first received by UMass from the Texas A and M to support the development of a data on chemical hormesis in 1997. This was then expanded to include ionizing radiation in 1998 with a grant from the Nuclear Regulatory Commission. At about that time the US Air Force initiated funding of hormesis research (1998) that has continued to the present. The Exxon Mobil Foundation also made a long term contribution to the hormesis initiative starting in 1997, for

about 15 years in the form a "gift" grant to UMass. This means that there was no obligation to provide a work product to the funder. The principal investigator could research whatever topics were of interest within the general low dose-hormesis area. Please note that these funding sources are identified as appropriate and required when articles published with their funding support.

Sincerely,

Edward J Calabrese, Ph.D.

University of Massachusetts, Amherst