Metholist THE METHODIST HOSPITAL Pathology Service 6565 Fannin, M.S. 205 Houston, Texas 77030 (713) 790-2370 FAX: (713) 793-1473



BAYLOR COLLEGE OF MEDICINE

Department of Pathology One Baylor Plaza Houston, Texas 77030 (713) 798-4661 FAX: (713) 798-5838

December 28, 1996

Philip J. Migliore, M.D. Chairman and Research Director The Moran Foundation Department of Pathology Baylor College of Medicine Houston, TX 77030

Dear Dr. Migliore:

I am writing to you to report on the progress of my research project "The effect of pulsed magnetic field (PMF) on cancer cells in vitro" which has been funded by the Foundation.

The instrument was used on several human breast, lung, colon, and pancreatic cancer cell lines. The cells were exposed, or unexposed (controls), to PMF for several different time points at 37°C in 100% humidity and 95% CO2. Both experimental and control cells were then tested for apoptosis by use of Apoptag kit, for proliferative activity by immunostaining for MIB1, and for membrane integrity/viability by the trypan blue exclusion test. We were unable to document differences between experimental and control. I have sent the instrument back to the maker who re-configured it to generate a PMF that is three times stronger, but with no difference between experimental and control except at the higher end of field strength, where despite the running water, there was heat generation at the magnet.

I have discussed the problems recently with the person who made the instrument. He will be coming to Houston in late march or early April. He will increase the power of the magnetic field again. To be able to eliminate the heat effect, I will have to circulate ice water through the magnet, which means I will have to buy a pump. Until then the project is on hold. I hope to resume the testing with the improved instrument later this summer. I will keep you posted .

Sincerely,

Manneile Yourgar

Mamoun Younes, M.D.