

DATE: November 19, 1964

To : J. Lederberg

FROM : E. Levinthal

SUBJECT: Dr. Morton Mandel

Dr. Mandel is a competent physicist with a good understanding of solid state phenomena, electron paramagnetic resonance, and nuclear paramagnetic resonance. His facility is greater with regard to the physics associated with these phenomena than with the technology or instrumentation associated with them.

Dr. Mandel is a pleasant person to have in the laboratory and works well with other people. He needs leadership and direction to help him achieve productivity. While he certainly was a willing worker, one did not get a sense of urgency about his endeavors. Some of these observations may relate to the fact that he was trying to apply his talents in physics to a field - biochemistry - which was new to him.

Dr. Mandel was employed here at a salary of \$1250/month on April 3, 1963 and terminated his employment on June 11, 1964 to take an NIH fellowship at the Karolinska Institute in Stockholm.

His technical work in the laboratory is best described by the following three papers he wrote while at Stanford:

1. Nuclear Magnetic Resonance of Phosphorus in Deoxythymidine Polynucleotides. (With J. W. Westley). Nature 203: 301-302. 1964.
2. The Effect of Temperature on the Proton Magnetic Resonance Spectra of Ribonuclease, Oxidized Ribonuclease, and Lysozyme. PNAS 52: 736-741. 1964.
3. Proton Magnetic Resonance Spectra of Some Proteins I. Ribonuclease, Oxidized Ribonuclease, Lysozyme and Cytochrome C. To be published.

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