

April 10, 1957

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Dear Jim:

The best review, such as it is, of streptomycin effects on chloroplasts is in Provasoli et al., 1951 Gold Spring Harbor Symposium. ~~This also refers~~ Von Euler has a fragment dealing with effects on higher plants in Hoppe-Seylers Ztschr. physiol. chem. 295:411.

A Dr. Nancy Ziebur did a little work here with some plants, but did not go far enough to get anything conclusive. Her best method of application seemed to be agar caps containing .5 - 1% streptomycin, applied to growing points.

No one here is working on this now, and as I think you gathered, I'm rather enthusiastic about the import of the problem. The more so if there could be some useful side-issues.

To revert to Euglena, you might be particularly interested in the complex relations between the ~~maxilla~~ carotenoid eyespot and the chloroplast. These are touched upon in the Provasoli paper, in some contributions by Pringsheim (New Phytologist 1952), and to illustrate what I'm talking about, in my review in Physiol. Reviews, 1952.

I did appreciate the hospitality you and K. showed me.

Best wishes

  
Joshua Lederberg