STILL universely of mydery.

Sept 6. 55

Dear Josh,

There just been in Melbourne for our dustralian of New yearand association for the advancement of Science meeting, and Six Rubbo has also visited syding. He was visiting us to find out some technical procedures in fractionating yeast engrynes and was surprised to learn me had made some observations on one of expression organisms, the Jetiti's Eq. A. a colleague, a. w. Linnane and posential some work at the Melbourne meeting.

Brieff the position to that we have succeeded in isolating what we believe to be mitochondria from fresh cells of normal bakers yeast. With the exception of fath aid anidation they have the properties of animal mitochondria. To any mine the most interesty thing about them in that they will omidist acutate only who spoked with at both glutowate or to a lesser degree, estate. In view of the increasing belief of Kreh and other that years probably has alternative justs of oriedation beside the classical T.C.A eyele the seems important.

procedure and have found that fartists which are similar under the microsepe can be isolated. In appear ment with Expression we find that cytochrone anidase is absent. However we have farme that succinic and 2- glarophosphate deligerogeness are persent, Encyt for the aline of the uptochrone anidase the mitochandria for the aline of the uptochrone anidase the mitochandria seem the rake is the two organisms. He number of them is probably less in the petitle.

We think the reasons for the disagreement between our work are Expression are polably as follows:

(1) the used methylers blue as electron acceptor and we have formed much opentor activity using 2,6 dichler fleval indepland.

(2) He used shorphate buffer as the suspending medium for his cells. Whe fine much opentor activity in our proposition also we use seconds solution as used for animal proposition,

(3) He carried out the disintegration of the cells one as 16 mink priod. We shake the cells violently for 20 seconds, and have found that longer spriods result in extensive damage of our material.

Sid will probably write and tell you how the poblem looks to him. Our other interest of private in our observation that probaginists can be included as a protein figurest complex, and that it is attached to the outse layer of the cell. It can be remark without suffering or otherwise injury the cell as for as we can self-implications from Sid that you may be promoded to visit authorise. Journally be very welcome in Sydry.

First foldhere