Dec. 7, 1929

Dear Burnham,

Thanks for your letter and data. I am glad to hear the corn is up as you know. I hate to spread such counts as I am in a hurry.

Yes I am there with planters except for a few with corn later. I rather impress the boys to do it so get any research done as you might then.

Don't play in my absence with out any resistance. Walks to F from the lab. too.

As for finding Threonine in the 0.1 has not made a corn test yet. Instead I have been planting corn. Have planted over 5,000 acres should in another but what I have planted near 10,000. I am trying to sift down as many Threonine as possible before planting. We are going to have more corn this year. I shall be able to do more than I had expected.

I have gotten good counts on 6-4 chromosome. So for my 6A x 3-1 x 6A & gave 1320 LGS: 626 LGS. There are many more counts that will be added in a few days.
I have some nice data on 3 strains or nearly 4 strains of pollen. Will send you a copy. Rheins is interested in this also. I am anxious to see the data. I have sent it on to them also. Rheins has grown a generation in California. None come to me. Not so bad.

Have you seen the paper on Malus - Knopf & Metten, 1915, Hereditas 7, and on Dactylis - Muntz, 1915, Hereditas 12, 297-319. Species cross pure F 1 F 2 pure F 1 x F 2 but with some gradations. Muntz' work is ok. I doubt whether it. His evidence is poor. He does not seem to grasp the key of cytopology. I have no data from your letter. The figures are given - many statements.

Have you written your paper? You must get at it for Randolph is finding lots of recombination & hybrids. Which may eat into your line. Don't wait any longer!

Respectfully submitted, however.

I am glad you are going to the meetings. I am so poor I can't see them was present even. I wrote an abstract for the meetings concerning 1-g. and 2-g. pollen Emerson. Randolph is going & I suppose James. I don't know about the others.
As for acetone - I use 45% acet. Boil & add
Acetone until saturated. Cold相近
the clear acetone
that is all. For work I use the Acet. Ketone.1 Acet. Ketone
A for the plates - I shall need you what I have - which
last week - I can give you a good single ring. The
ring 6 we didn't work with with permanen. Have
you any more material? The ring +1 I shall see what we
have. - So much for A. M. It is now P. M. & I have
had so many interruptions my work has not gone on - until
he had his letter. I have looked over the slides - low power
can't see anything too unusual. I shall try on when
my scope is free. Miss Bailey & Mr. Balla using it now
so i haven't had any show what it

After our great pains it is hard for you to do
stretch the body we have been to change again. Mr. Scott
has succeeded upon us. We have done some more
rearranging to squeeze him in. It was the only thing
we could do. We have plenty of tables, though.

[1 day later - I was interrupted again so am continuing
in our work. Have gotten some information from readings which
increases the use of testines instable - as they claim it looks
like this:
Starting frompamnax: I have elm. 6 or 8. I am planting 20 trees from which I can select them. I hope to get 7 or 8 from your B. If no. 7 is used, if c. dr. m. is #4.9, may have #2 in some of my material. #10, or F-5. Should come from Brück et al. I may have #2 in one of my trees. He ought to have a good share of them isolated by my summer if, again, I will get to work. I have been unusually busy.

Dear Dr. Emerson: am trying to get a job in the Graduate School now. Other settings were futile. From what Dr. Emerson says, I don't believe there is much of a chance.

When you see Brück and Chippewa, etc., do your best for me. I will be very grateful. I may be out of a job and fall. If Brück doesn't want me, one person will fall. Summer will be over by that time. You might mention that also.

Brück tells me he intends to give a talk on recent developments in new, Dr. Emerson was asked to do it but turned it over to me. How and why? He doesn't know recent developments as Dr. Emerson knows. I think it is better too.
Let me know more dope - on the work at Harvard.

In Eastreece is your containing or runs? Do you see much of him? Do you plan to come back this spring? - all to be answered in your next, if that will before spring. Here's hoping the spirit moves you sooner than it did before -

As to the table on b-2 3-2 B-2 B-1 crossing:

1. Extra chiasm formation seen. M. almost not at all.
2. $\psi = 25\%$ B-N-I from $2n+1 \times 2n$
3. Are we selecting B-N-I or Type B among $\psi$ forms?

$$= + \quad \begin{array}{l}
\psi_i = \text{expected} \\
\psi_i = \text{expected}
\end{array}$$

Therefore $\psi_1 = \psi + \psi_i$ is left out. Then

(III) $\psi_i$ happens in left out. Therefore

selecting $\psi_i$ occurs. So of crosses in B.C. not

the % that took place.

6. $\psi_1 = \psi$ exceeds between $2+3$

<table>
<thead>
<tr>
<th>$\psi_1$</th>
<th>$\psi_2$</th>
<th>$\psi_3$</th>
<th>$\psi_4$</th>
<th>$\psi_5$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+3</td>
<td>1+2</td>
<td>1+2</td>
<td>1+3</td>
<td>1+3</td>
</tr>
</tbody>
</table>

7. $\psi_1 = \psi$ underlines $\psi$ crossing over between 2-trains, other

can be calculated from this. As it stands each train

retains the same $\psi_1$ with every other $\psi$ and leaves $\psi_1$.
total no. of row games that function is increased. Double 5
triple cross-overs involving 1 + 3, times not necessary for.

So much for the new note.

Answer.

Patt.