Dr. William L. Brown Pioneer Hi-Bred Corn Company 1206 Mulberry Street
Des Molnes, Iowa 50308
Dear Bill,
I am enclosing two letters recently received. The one from Painter is most important. The first paragraph of his letter gives measurements of DNA content in three strains of maize. The measurements were taken at the pachytene stage of meiosis. Monteiro's work indicated the manner in wich knobs increased the $D N_{i}$ content. The amount of increase is astounding, though, as shown by Painter. Favan is going to Aust $n$, Texas, and he is taking some young studnets from Brazil with him. Blumenschein wrote me stating that Pavan had becone very much interested in the knobs of maize and wanted su eestions of a problem for one of his studenta. I have suggested that the DNA content of the nuclei of difierent types of cells be measured cytophotometrically. It is obvious that the knobs are not acting in the same manner in different cells and I suspeot this is related to differences in the DMA conent of these cells.

The second letter is from Ellis Bolton. He was on vacation When your seed arrived here. Donsequentiy, I held the seed until arter I had returned from a week at Raleigh. The seed was mailed to Bolton the day after I returned here --January 10. I sure hope that the knobs will have a $G-C$ content that will allow identification of their DNA. If so, we are on our way to an apprecintion of what they may be acoomplishing. sver since $I$ first saw a knob I have wanted to know this:

You will get a report by phone on my trip to Raleigh. The study of chronosome morphology and of krobs in Iripsacum is going to be as informative as the maise study. There will need to be some chanees in mode of attack if progress is to be made. I have talked again to Roberts and he has talked to Wellhausen. More by phone, however.

Regards,

Barbara MoClintock.
P.S. harcus Rhoades ha a heart attack at Christmas time. He is still in the hospital but was holding his own, the last time I heard.

