

Ludra Lodge,
Talli Tal,
Naini Tal
4 Aug. '58

My dear Dr. Krishna Bahadur,

You remember our talk during winter vacation regarding work on lines similar to that being carried out by you at Allahabad. I have with me now 4 quart Kjeldahl flask of 500 cc capacity, a 1000 watt bulb, a number of amino acids (I have almost the complete list and the rest are on order) and the set of polypeptides (on order). Naini Tal has a heavy rainfall (over 100") and it is raining practically everyday and we would be in a position to get sun light only after about a month. I think by that time I would be in a position to start some work.

As you are already working in the field it is my desire that we should collaborate to get quicker results and to avoid any duplication of work. In the first instance I wish you to design experiment in detail and I would get them executed here. Later when I have gained some experience about the work and technique I may be in a position to give further suggestions. I am writing this letter to let you know that I would be ready in about a month's time. This would give ample time to think about the subject. I need hardly add that all credit for the work would be equally shared.

My idea is that we should design certain crucial experiments the results of which should not leave any ambiguity as to the correctness of the hypothesis. It may be a series of experiments which may take a number of years to execute

but all seemed to be inter-related
and interdependent.

I trust this would find you in
the best of health.

With best wishes,

Sincerely yours
Gulab Nath Puri

P.S. In writing about experiments
please give full details in the
manner you would instruct a
research scholar.

अन्तर्देशीय पत्र

इस पत्र के अन्दर कुछ न रलिये



Dr. Krishna Bahadur
D.Sc.

Asst. Professor of Chemistry,
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Allahabad University.

ALLAHABAD

पहला मोड़

नीला मोड़

दूसरा मोड़

भेजने वाले का नाम और पता :-



पत्रा को न खोलिये

Naini Tal
21. 8. '58

My dear Dr. Krishna Bahadur,

I am in receipt of your detailed letter and thank you very much for the same. I am writing to you now to get photo copies of the article. The weather here is not yet clear. It is cloudy all the time and it is raining hard practically every day. I shall again write to you in detail when the experiment is started.

I am at present reading a book "The Chemical Action of Ultraviolet rays" by Ellis and Wells revised and enlarged by F. F. Heyroth - (Publisher Reinhold, 1941) On page 670-673 it describes some papers on the action of ultraviolet rays on proteins and amino acids. On page 671 it records that when a 0.1 N aqueous solution of glycine is irradiated by a mercury arc for 15 hrs. The solution increased in conductivity from 1.54×10^{-5} to 71.20×10^{-5} and its pH from 4.8 to 7.45, the change being explained by the postulate



[Henri, Weismann, Heischberg: Compt. rend., 198, 168 (1934) & 199, 1205 (1935)]. It is also recorded that 2400 Å radiation can start decomposition. The other significant reference is Weismann, Heischberg and Bergmann, J. Am. Chem. Soc., 60, 1799 (1938) which would be readily available there. In this paper diamyl-glycine is studied.

These two examples of splitting off
 NH_3 from amino acids.

In view of this I would like
your views on this keeping
a record of conductivity and
pH measurements also in
the experiments. I have already
thought of keeping in touch with
(i) optical relations (ii) Absorption
spectra in these reactions.

I trust this would find
you in the best of health.
With best wishes,

Sincerely yours
Gurban Nath Rain

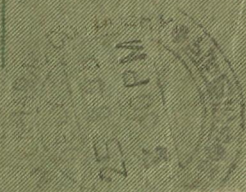
अन्तर्देशीय पत्र

इस पत्र के अन्दर कुछ न रलिये



Dr. Krishna Bahadur
D.Sc.
Department of Chemistry
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Allahabad

प्रेजने वाले का नाम और पता :-



Kudra Lodge,
Talli Tal
Naini Tal
14.7.59

My dear Dr. Krishna Bahadur,

I am in receipt of your letter about admission of a certain student. I am sorry to write that we closed admission on the 14th July and now our office would not accept any applications for admission to M.Sc. Class. We start admission to this class at the latest by 1st July. This year there was unusual rush. Some of our B div. boys had been left out. If I had received your letter in June I would have tried to admit him. Now the whole thing is beyond my control.

I was happy to learn that people in U.S.A. are getting interested in the problem of peptide synthesis. Here I am experiencing one difficulty. Both the peptide and amino acids have the same Rf value. Though one spot inside

The other is visible, very complete separation has not been achieved. In strip chromatography the whole spot spreads. In circular chromatography low spots move together. I wish we had tracer technique at our disposal. That would help quite a lot. It requires about a couple of lakhs to set a small tracer lab for this purpose. Do you know of any place in India where such a work is possible? Would A.E.L. people help in this matter? You can very realize the immense potentiality of tracer technique in this respect.

With best wishes,
Yours sincerely,
Coulson

पोस्ट कार्ड

केवल पता



Dr. Krishna Bahadur

68, Dilkusha

New Kabra

ALLAHABAD