

[Letters to Crick from Maurice Wilkins]

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Wellcome Collection
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9A Eton Rd NW3

Tues.

My dear Crick,

How is Cambridge? is the cold wind blowing across the fens, fishing up the waters of the Cam, whistling through the barbed wire on college walls, rattling the chain padlocks on college gates & causing a healthy glow to appear in the faces of bedmakers & undergraduates hurrying across the cobbles to the college bathroom? Is it blowing in under the door of the Strangeways, congealing the culture media & causing all honest amphibians to hibernate? In fact, how are you getting on and — by the way: — (no that is not to be mentioned)

And when you come to

towns next send me a card
in advance & I can reply by
phone & suggest a date for
dinner. I have made some
very good dinners lately & am
getting in a barrel of cider.

Do let me know, wont you?

Yours

Maurice Watkins

9A Eton Rd NW3
PR1 5740

3 II 48.

Dear Nick,

Very sorry to hear about your father — I felt pretty bad when mine died not long ago. And I hope it doesn't upset your finances.

About the flat — many thanks for your efforts + still more thanks to come if they are successful. These lucky things do happen sometimes.

About the weekends — if you would like to bring your girl friend to my place I should be very pleased + would do my best with the help of the concise Encyclopedia of Gastronomy + a few titbits from Soho. But it is at very easy to get me by phone at the weekend + I would need some warning to get to Soho first.

Anyway

See you soon

Yours
Maurice Wellman

My dear Nick,
How in Cambridge? is
the cold wind blowing across the fens,
frankling up the waters of the Cam, whisking
through the banks in a college walk,
rattling the down paddock on college gates,
+ causing a healthy glow to appear
in the faces of bedridden + undernourished
hurrying across the college to the
college bathroom? Is it blowing
in under the door of the Strangeways,
+ causing the culture media +
causing all honest amphibians to
hibernate? In fact, how are you
getting on and — by the way: —
(no that is not to be mentioned)
And when you come to

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Do let me know, would you?

Yours

Maemie Withins

on train Zumbach - Zurich

My dear Francis,

First let me tell you why I am here. I am doing a combined holiday & work trip again. I am going to see Signor the n.a. man in Bern & some of Frey Wyssling's people in Zurich. But the real trip was holiday. First to Munich to pick up a young friend of mine & see the artists beer cellars then to Zumbach & Bolzano to see Italy but it is a half Italian so we took a bus down to Lake Garda & stayed at the Gardone Riviera & walked under all the oranges on the trees in the streets & such like. Then a wonderful day skiing at Selva Wolkestein in the Dolomites & back to Zumbach. Now I am on business to visit the people in Switzerland.

But unfortunately I have to pay for almost all this trip myself which is shocking & unusual for me but already I have another trip planned on the NRC (actually they didn't pay for any other trips but Imesco & other people). I have got much better.

X ray pictures of the sperm Squid which show very nicely a whole series of helical layer lines & one inter middle spacing. These spots will not overlap when a

disoriented specimen is used & I want to do it on living sperm in glass tubes. I believe

your friend in Rome offered me use of an X ray tube (I am sure he did) & what I want you to tell me is his address so I can confirm this & can go to Naples (you bet)

I promise name.

Thank you very much for the invitation but as I have just got back I would like to stay in town this weekend. Possibly I could come for the next Hardy Club?



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I collect the sperm & go by train to Rome & X-ray them. They live for days & it is all very practicable. I don't know of any X-ray set in Naples but will enquire there too but am very doubtful. I will bring my own camera & any ordinary tube will do. Also I will try living spermatozoa in glass for orientation. No H₂ & humbly fuss.

I did the transform of the micelle of N.A. projected on a plane at \perp to the axis & have done more on the layer line intensities also repeated Oster & Riley on the long distances on wet gels oriented. I have found several of your suggestions very valuable but am fairly convinced for many reasons the phosphatase must be on the outside. There is just one part of the picture that still puzzles me but if helices are right we must hit on the explanation soon. I am really getting down to the job myself but haven't done anything on models & chemistry as I think the picture holds a key not yet recognized which will then more or less directly give us the model. I now take my own X-ray pictures & have made new cameras (hence better sperm pictures). But I believe as you that the key to N. protein lies in the crystalline picture. The exact crystallinity is of interest in that it gives us definitely the general micelle arrangement if you follow me. Franklin bothers often but doesn't succeed in helping me. Since I reorganized my time so that I can concentrate on the job, she no longer gets under my skin. I was in a bad way about it all when I last saw you.

3

When I saw Jim last before Christmas he said you people couldn't build a model along your lines if that is so it smudges things a bit anyway I am pretty certain the phosphates are on the outside. I won't start making any references to the 'brothers' between you people & us over n.a. but look forward to discussing all our latest ideas & results with you again. Why don't you come & have lunch with me when you are next in town?

About Naples we must also separate heads & tails (electrophoretically?) & Geoffrey is interested in isolating n.p. I think it could all be done in 2-3 weeks & be very worthwhile & cost MRC very little. The sperm is the only way I know of getting neatly oriented live n.p. Also I took a nice picture of living & rot trypan in a glass tube & think there is a whole new field there working with liquid cameras or monochrom (Franklin pets) to show the pictures of living nuclei or whole cells with negligible cytoplasm as the same as disoriented n.p. as isolated by Sieckmanns. Thus we may be able to prove the helical idea for ordinary cells as well as special low water content cells such as sperm. But apart from little excursion of a day or so this must wait.

Did you hear I have got a RCO invitation? isn't it grand! In some ways I feel I am a very lucky fellow. And there I hope to collect sperm bundles which contain separate chromosomes & do X-ray pictures of each of the 2 chromosomes

4

in the cell spirals and conspiralities etc.
This is rather ~~gilding~~ gilding the lily but
may be very useful in a year or 2's time to lead
the X-ray barman more with real chromosomes.

I hope I don't go to the devil with all these trips
but so far I think they are well worthwhile from
the work standpoint.

Give my nicest regards to Otilie
& tell her I thought of her while I looked at the
oranges in Italy.

I hope Bagg neither banks nor bits.
& your unit is filled with happiness. If these
hopes seem foolishly extravagant please forgive
me

Give my regards to John & tell him I wrote
a series of letters to Chazoff.

your M.

Have you a better flat for me?



BIOPHYSICS RESEARCH UNIT,
KING'S COLLEGE,
STRAND,
LONDON, W.C.2.
TELEPHONE: TEMPLE BAR 5651

Thurs.

My dear Francis

Thank you for your school of daily letters! I meant to ring you tonight & then realised you had no phone since moving. I will be up on Sat afternoon. Geoffrey is staying behind as he has some things which have to be finished before we go to Brussels. It is very nice of you to offer to put him up.

L.H. is interested in rot. pol & feels Boyes might not be much use so maybe that is the best line.

I should have replied before

but was feeling lousy & thought I
might be ^{too} depressing & should keep away
from humanity. Rosie's colloquium made
me a bit sicker. God knows what will
become of all this business. They talked for
1 3/4 hours non stop & she effectively refused to
answer questions. They had a unit cell big enough
to sit in (but not sit in it).

(I feel
allright
today)

It would be nice to see the
Mankhams. He is certainly good company &
I remember her as a nice person.

It's urgent if you to get Pauling's
paper & I will tell you all I can remember
& scribble down from Rosie.

I would like to speak to Broad
& get a blue print of a r.o. from him.

I will telephone before they get
to you. Tried telephoning tonight & they
got all diff numbers & ended up with poor
Ingram who very nicely offered to bring you
a message. Sorry I have been so deplorably slow in
replying. I hope this hasn't been very much of a nuisance.
Special regards to Odile. M.



BIOPHYSICS RESEARCH UNIT,
KING'S COLLEGE,
STRAND,
LONDON, W.C.2.
TELEPHONE: TEMPLE BAR 5651

Sat.

My dear Francis,

Thank you for
your letter on the polypeptides.

I think you will be interested
to know that our dark lady
leaves us next week & much
of the 3 dimensional data is
already in our hands. I am
now reasonably clear of other
commitments & have started up
a general offensive on Nature's
secret strongholds on all fronts:
models, theoretical chemistry,
& interpretation of data, crystalline
& comparative. At last the decks
are clear & we can put all
hands to the pumps!

It won't be long now.

Regards to all
yours ever
Mr

P.S. may be in Cambridge next week.

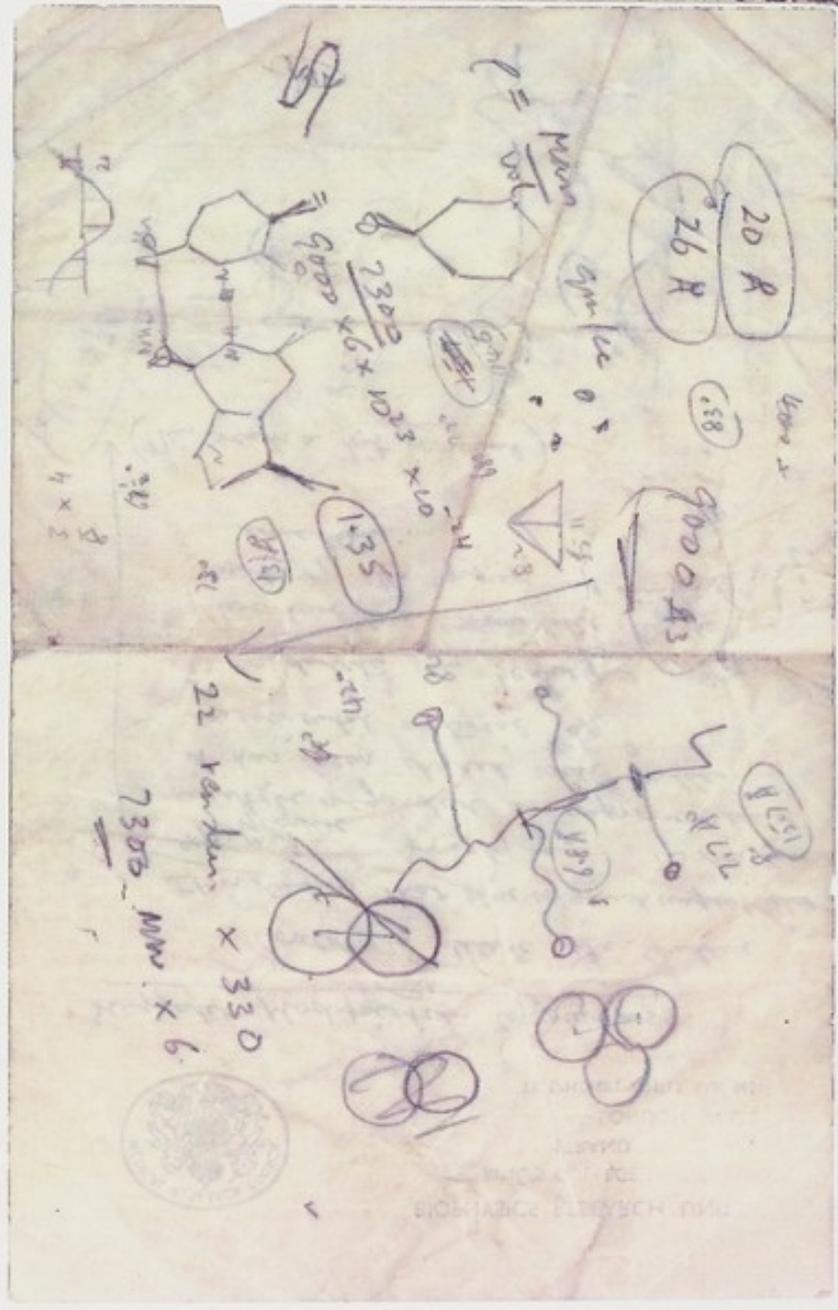


RIO DE JANEIRO

Nº 460

Christ's right arm produced
 a distance equal to that between
 his hand & elbow would reach the
 Earth & his. 4m. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Francis Crick
 Cavendish Laboratory
 Free School Lane
 Cambridge
 England
 VIA AEREA





BIOPHYSICS RESEARCH UNIT,
KING'S COLLEGE,
STRAND,
LONDON, W.C.2.
TELEPHONE: TEMPLE BAR 5651

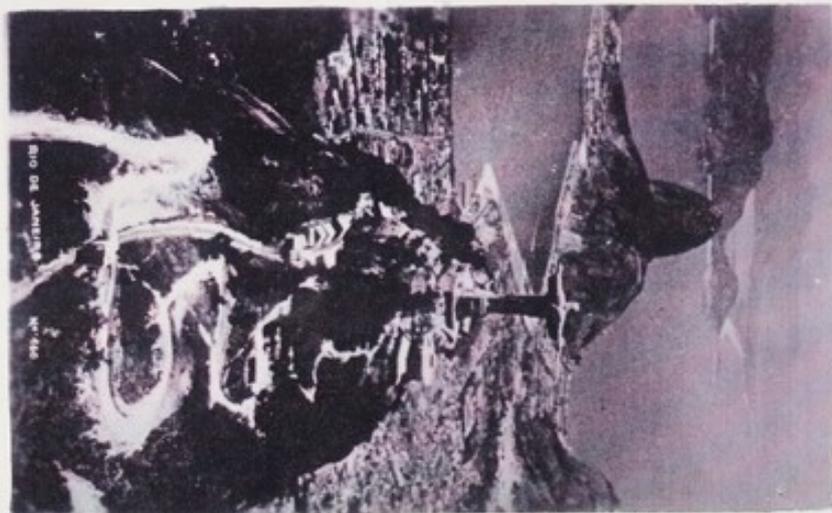
Suggested Modification to your mss.

Could you delete the sentence
it is known that there is much unpublished
exp. mat. ^{of yours} Simply say. The structure
must be regarded as unproved until
it has been checked with fuller
experimental material e.g. 8.

delete very beautiful & say
we have been stimulated by the
work of the group at things or
something.

M.

(This reads a bit ironical).





BIOPHYSICS RESEARCH UNIT,
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TELEPHONE: TEMPLE BAR 5651

Fri

My dear Francis,

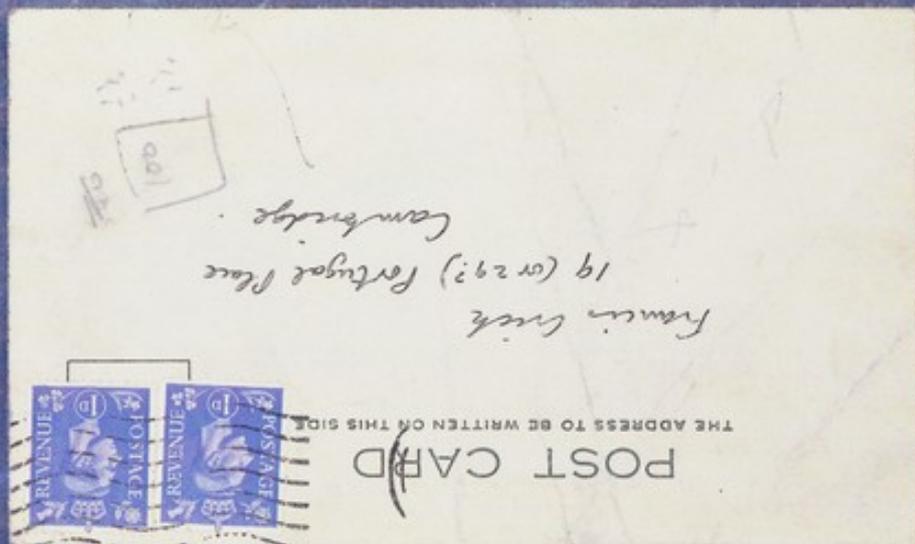
So glad to hear you are coming up. I would be very glad if you & Odile could come to dinner on Sat but there are snags as you know:

- (a) To avoid exhausting Odile with shop could you come to the lab on Sat afternoon? And if you brought some nice young woman who has no interest in proteins or nucleic acid (e.g. Patry might like to take the risk) with you & Odile to dinner this might prevent our degenerating into shop. The best safeguard is a really attractive young woman and this is why Odile does not quite fit the boat one who is unattached or at least unaccompanied

you will be interested to hear that all is safe in the hands of Cole who may be able to get it in April 25. There was a frantic chase at the last moment — no lights for nightingale (Francis kept us out) & two missing figures when after a long search turned up in Rembley & in Rosie's room. If Pauling is interested please show him my draft MSS. M.

(I am)
Strand W.C.2.
KING'S COLLEGE (LONDON).

TELEPHONE:
TEMPLE BAR 5651
(5 LINES)



by her husband. Well so much for
the evening.

(b) About staying the night I would be
horribly delighted but am a bit doubtful
this weekend as I am in such a state of nervous exhaustion
that I intend not waking up all Sunday
which with the geometry of my flat makes
visiting rather awkward. (I know this sounds awfully
mean)

We have found apparently that d.n.a.
(nucleic acid) does an α β Keratin type of
transition & are hot on the trail hot is
the word & working till we drop. I can still
stand up most of the time but cannot answer
for what state I will be in on Saturday.

about hope to recover a bit on Sunday
we have X rays, brief u , u.v. destruction, & mech
properties evidence all ready but don't mention it
yet to anyone please. we hope for e.m. & i.r.
evidence too. Love to Odile, down with science,
M.