The location of i, enhancer of am

R. R. Bürk

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The location of \( i \), enhancer of \( am \)

**Abstract**
The location of \( i \), enhancer of \( am \)

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This linkage data is available in Fungal Genetics Reports: http://newprairiepress.org/fgr/vol6/iss1/22
Bürk, R. R. The location of i, enhancer of am. It has been found that i (1444) grows less well on Fries No. 3 nitrogenless medium with 0.05 M L-aspartate as sole nitrogen source than does i+. i (1444) was crossed to sp (1405) and 120 ascospores isolated. 85 germinated and were growth tested on Fries medium without the nitrogen source (Fries N-) supplemented with aspartate and Fries N- with ammonia. The following segregation
\[ i^+41, \quad i^+sp \quad 7, \quad ++9, \quad ++sp \quad 28 \]
indicated 18.82 \pm 4.24 per cent recombination. Fincham and Pateman (1957 J. Genet. 55:456) reported 8 per cent recombination between am and i, which would indicate that i is distal to am on linkage group V, i.e., near the inos locus.

i was located by the cross A; sp, am, inos (1474) x a; am, i (1357) (Fincham's strain 1499-14). 2,059 ascospores were spread on Vogel's minimal medium. Of the 2,091 which germinated, 4 grew after 3 days with a spray phenotype and were therefore the sp, am, +, + recombinant indicating that the situation in linkage group V is

<table>
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<tr>
<th>sp</th>
<th>am</th>
<th>i</th>
<th>inos</th>
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<tr>
<td>7.9</td>
<td>8.4</td>
<td>0.7</td>
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with i 0.66 \pm 0.23 units from inos.

The best method of scoring found to date is on Fries N- supplemented with L-proline as nitrogen source. i+ grows and i does not. -- Department of Genetics, Milton Road, Cambridge, England. (Present address: Institute of Virology, Church Street, Glasgow W.1, Scotland.

Perkins, D. D. Errata

In the note "New markers and linkage data" by D. D. Perkins and N. E. Murray (1963 NN#4:26), the following changes should be made:

p. 26: 46802 T(V;VI) inos, not 47904 T(V;VI) inos.

20705: We find that 20705 was already listed in linkage group III as a presumptive allele of 70004 and 27663 by Houlahan, Beadle and Calhoun (1949 Genetics 34:493).

p. 27: Cross 1684. Should have been tabulated in reverse order, with me-6 on the left, to give me-6 8.9 ad-9 3.2 nit-l.

Crosses 1669, 1713: III;VI, not III;V.

Cross 1680: tryp-2, not tryp-1. 75001, not 10575.

-- Department of Biological Sciences, Stanford University, Stanford, California.