INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE
Rabat, Morocco

1. Location of $f_{12}^2$.

The study of the progenies of the backcrosses (see News Letter, 36, p. 91) confirmed the linkage between genes $la$ and $f_{12}^2$, and $Tu$ and $f_{12}^2$. The results obtained were as follows:

<table>
<thead>
<tr>
<th>Genes</th>
<th>Parental</th>
<th></th>
<th>Non-parental</th>
<th></th>
<th>Total</th>
<th>Percent recombination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>252</td>
<td>234</td>
<td>9</td>
<td>6</td>
<td>501</td>
<td>3</td>
</tr>
<tr>
<td>$f_{12}^2$ la</td>
<td>(+ $la$)</td>
<td>(+ +)</td>
<td>($f_{12}^2$ la)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>97</td>
<td>88</td>
<td>38</td>
<td>42</td>
<td>265</td>
<td>30</td>
</tr>
<tr>
<td>$f_{12}^2$ Tu</td>
<td>(+ $Tu$)</td>
<td>(+ +)</td>
<td>($f_{12}^2$ Tu)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Thus gene $f_{12}^2$ appears really to be located on the short arm of chromosome IV, very near to $la$.

A. Cornu

2. Location of $rp_X$ (sensitivity to Puccinia Sorghi).

The study of the progenies of the backcrosses comprising genes $rp_X$, $ws_3$ and $lg_1$, provides the possibility of defining accurately the situation of the locus $rp_X$ on chromosome II (see News Letter 35, p. 134).

The backcrosses with $ws_3$ $rp_X$ resulted in a progeny of 934 plants, of which 196, or 21%, were recombinant.

The three-point test ($ws_3$, $lg_1$, $rp_X$) provided a progeny of 332 plants, among which were counted:

- 65 recombinants between $ws_3$ and $rp_X$, or 19.5 per cent
- 40 " " $lg_1$ and $rp_X$, or 12 " 
- 25 " " $ws_3$ and $lg_1$, or 7.5 " 
- 2 double recombinant plants, or 0.6 "

Thus it seems possible to locate the locus $rp_X$ on the short arm of chromosome II, between genes $lg_1$ and $f_{12}^2$ and more or less at the same distance from both.

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