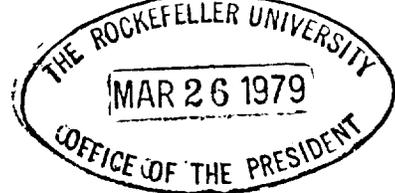


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Yale University *New Haven, Connecticut 06510*



SCHOOL OF MEDICINE
333 Cedar Street
Department of Human Genetics

March 22, 1979

Dr. Joshua Lederberg, President
Rockefeller University
New York, N.Y.

Dear Josh:

We revived W5449 from lyophil and sent it to G.S. Gill. Now I am trying to work out its derivation.

Working from your strain book, I see that it is a trans-ductant: P1 (C600r⁻ m⁺ thr⁺) X MO671. On checking the reference given beside W5440-W5442, I have found that MO671 (Oishi strain) is a trpB9579 transformant of JC7623 from which a tonB⁻ derivative was isolated after nitrosoguanidine treatment. This would be W5442, I think, but note the ambiguity on the strain sheet. I know what JC7623 is, so the recipient parent is identified. (see enclosed charts.)

I am not able to identify the donor parent. It looks to me as though it was probably W5448, a thr⁺ revertant of W5445. The latter is apparently a derivative of C600 which has been made pro⁻, Sm^R and r⁻ from Ron Davis, but the pro, Sm^R markers are not listed for W5448.

In order to identify the "r⁻" character of W5449, I need to know where this mutation originated. There is a note between two lines saying "M. Palmer C600". I don't know which strain it refers to and don't know of M. Palmer.

I'd be grateful if you or one of your former associates would identify W5445 for me and tell me what is known of its derivation. ✓

Sincerely,

Barbara

Barbara J. Bachmann
Curator, E. coli Genetic Stock Center

BJB:ml

I am forwarding this to Dr. Ehrlich in Paris for his comment/clarification.

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