

clear. The effect on B was counter to the others, since it would be expected that intensified variegation would reduce B expression. Nevertheless, given the number of different rearrangements and phenes assayed and the fact that no other variegation modifier is universal in its effect, either, AP is shown to be an enhancer of the variegation process itself.

References: Fowle, J.R. III 1980, Ph.D. Dissert., The George Washington Univ.; Rushlow, C.A. and A. Chovnick 1981, Genetics 97:s92.

Takada, H. and M. J. Toda. Sapporo University and the Institute of Low Temperature Science, Hokkaido University, Sapporo, Hokkaido, Japan. Notes on Arctic Canadian Diastatidae and Drosophilidae (Diptera).

During July 13 to August 11, 1980, the junior author had an opportunity to make drosophilid fly collections at Inuvik (68°22' N, 133°45' W) and Tuktoyaktuk (69°26' N, 133°03' W), Northwest Territories of Canada, in the Permafrost Expedition of Hokkaido University. We report here the list of 16 species collected, including a new species. The description of new species

has been reported in the Journal of the Faculty of General Education, Sapporo University, No. 18, 1981.

#### Arctic Canadian species of Diastatidae:

1. *Diastata tenuipes* (Walker). Inuvik, 1 female, 1 male, August 2, 1980.
2. *D. eluta* Loew, 1863. Inuvik, 1 female, August 7, 1980.
3. *Campichoeta griseola* (Zetterstedt), 1855. Inuvik, 3 males, 1 female, August 2, 1980.

#### Arctic Canadian species of Drosophilidae:

4. *Amiota quadrata* Takada & Toda n. sp. Inuvik, 22 males, 7 females, August 8, 1980.
5. *Chymomyza aldrichii* Sturtevant, 1916. Inuvik, 2 females, 1 male, July 31 to Aug. 8, 1980.
6. *Ch. tetonensis* Wheeler, 1949. Inuvik, 1 female, 2 males, July 31 to Aug. 8, 1980.
7. *Ch. costata* (Zetterstedt), 1838. Inuvik, 54 females, 153 males, July 31 to Aug. 8, 1980.
8. *Ch. caudatula* Oldenberg, 1914. Inuvik, 1 female, July 31 to Aug. 8, 1980.
9. *Scaptomyza montana* Wheeler, 1949. Inuvik, 5 females, 2 males, August 7, 1980.
10. *S. trochanterata* Collin, 1953. Inuvik, 2 females, 1 male, August 7, 1980.
11. *Drosophila athabasca athabasca* Sturtevant & Dobzhansky, 1936. Inuvik, 420 females, 254 males, July 31 to Aug. 11, 1980; Tuktoyaktuk, 5 females, 1 males, July 13-26, 1980.
12. *D. montana* Stone, Griffen & Patterson, 1941. Inuvik, 18 females, 25 males, July 31 to Aug. 8, 1980; Tuktoyaktuk, 2 females, July 13-26, 1980.
13. *D. borealis* Patterson, 1952. Inuvik, 1 female, July 31 to Aug. 8, 1980.
14. *D. putrida* Sturtevant, 1916. Inuvik, 5 females, 6 males, July 31 to Aug. 11, 1980; Tuktoyaktuk, 1 female, July 13-26, 1980.
15. *D. subquinnaria* Spencer, 142. Inuvik, 27 females, 37 males, July 31 to Aug. 11, 1980; Tuktoyaktuk, 1 female, 1 male, July 13-26, 1980.
16. *D. rellima* Wheeler, 1960. Inuvik, 87 females, 86 males, July 31 to Aug. 11, 1980; Tuktoyaktuk, 10 females, 13 males, July 13-26, 1980.

Triantaphyllidis, C., J. Panourgias and Z. Scouras. University of Thessaloniki, Greece. Genic variation in a Greek wild population of *D. melanogaster*.

The present communication constitutes a further report of a much wider investigation in isozyme variation in Greek *D. melanogaster* and *D. simulans* populations. The project was started ten years ago and is still in progress.

Polymorphisms of seven enzyme systems, namely, of esterase-6 (Est-6), esterase-C (Est-C), acid phosphatase (Acph), alcohol dehydrogenase (Adh),  $\alpha$ -glycerophosphate dehydrogenase ( $\alpha$ Gpdh), phosphoglucomutase (PGM) and malate dehydrogenase (Mdh-1) were studied in wild sympatric *D. melanogaster* and *D. simulans* populations. The sample was collected in early June from University Farm, a locality at a distance of about 15 km from the town of Thessaloniki. Our results for *D. melanogaster* are shown in Table 1. The results of the *D. simulans* are not given because the sample was too small. Hardy-Weinberg tests indicated that the studied sample was in equilibrium for all loci, except Adh, where  $P < 0.05$ . The mean observed heterozygosity (H) was 0.179, while the expected was 0.190.