FBrf0079812

MOLECULAR AND POPULATION GENETICS

RESEARCH SCHOOL OF BIOLOGICAL SCIENCES

THE AUSTRALIAN NATIONAL UNIVERSITY

Telephone No: [redacted]
Fax No: [redacted]
Email: [redacted]

GPO Box 475
Canberra City, ACT, 2601
Australia

May 3rd 1995

Professor Michael Ashburner
Dept Genetics
University of Cambridge
CAMBRIDGE CB2 3EH ENGLAND
FAX[redacted]

Dear Michael

I have just got back; spent most of my time in Yorkshire, which was looking well with an abundance of twin lambs - EEC stimulus?

The error in Fly Base is that it has reference FBrf0057997, i.e. Prakash *et al.* DIS 72: 156, reporting a *Gpdh*^{UF} allele with Fly Base allele i.d. number FBa10005142. In fact that reference makes no mention of an UF allele.

As far as I know *Gpdh*^{UF} alleles have been reported by:

Lee, C.-Y., D. Niesel & G. C. Bewley, 1980. Analyses of genetic variants of L-glycerol-3-phosphate dehydrogenase in *Drosophila melanogaster* by two-dimensional gel electrophoresis and immunoelectrophoresis. Biochem. Genet. 18: 1003-1018

David, J. R., 1982. Latitudinal variability of *Drosophila melanogaster*: allozyme frequencies divergence between european and afrotropical populations. Biochem. Genet. 20: 747-761

El-Abidin Salam, A. Z., A. M. El-Adl & Z. A. Kosba, 1982. Isozyme polymorphism in *Drosophila*. IV. Interspecific variation and population dynamics, pp. 227-235 in Advances in genetics, development and evolution of *Drosophila*, edited by S. Lakovaara, Plenum Press, New York, USA

Charles-Palabost, L., 1986. Alleles found at six gene-enzyme systems in the French natural populations of *Drosophila melanogaster*. DIS 63: 43-44

Kamping, A. and W. van Delden, 1988. Hybridization between *D. melanogaster* and *D. simulans* in nature. D.I.S. 67: 53

Jiang, C., J. B. Gibson & H. Chen, 1989. Genetic differentiation in populations of *Drosophila melanogaster* from the People's Republic of China: comparison with patterns on other continents. Heredity 62: 193-198

In addition, we have analysed an UF allele isolated by Phil Barnes from Raleigh, N.C., U.S.A. but he did not publish its origin.

Following the human system of nomenclature we propose referring to the *Gpdh*^{UF} alleles as:-

e.g.	enzyme	-	GPDH UF Xiamen (Jiang *et al.* 1989)
	allele	-	*Gpdh* $Lys^3 \rightarrow$ Asn

All of the *Gpdh*^{UF} we have analysed are derived from *Gpdh* ^{F}.

Your comments/suggestions would be welcome.

Best wishes

JOHN John.

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Telephone No: [redacted]
Fax No: [redacted]
Email: [redacted]

GPO Box 475
Canberra City, ACT, 2601
Australia

Wednesday, May 17, 1995

Prof. M. Ashburner
Dept Genetics
University of Cambridge
Cambridge CB2 3EH
ENGLAND UK

FAX [redacted]

Dear Michael

The *Gpdh*^{UF} alleles from different populations are heterogeneous, except Iowa (Lee *et al.* 1980) and Netherlands (Kamping and Delden 1988) which have the same substitution.

The changes are:

Xiamen (Jiang *et al.* 1989)	K3 → N
Iowa and Netherlands	N336 → D
Raleigh (unpublished)	V76 → E
Brazzaville (David, 1982)	K68 → M

(between them)

They differ in electrophoretic mobility, but the differences are not entirely explained by the substitutions. A paper describing these data has been submitted to *Genetica* (Wilanowski, Barnes and Gibson).

Best wishes

John

JOHN