

Copy of a printed table referenced as "Table [amino acids] triplet codes"

Contributors

Wilkins, Maurice Hugh Frederick, 1916-2004

Publication/Creation

October 1963

Persistent URL

<https://wellcomecollection.org/works/nmgtcq5n>

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution, Non-commercial license.

Non-commercial use includes private study, academic research, teaching, and other activities that are not primarily intended for, or directed towards, commercial advantage or private monetary compensation. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

AMINO ACID CODE TRIPLETS

Amino acid	U-triplets*	Non-U triplets	Shared doublets
Ala	CUG	CAG, CCG	C•G
Arg	GUC	GAA, GCC	G•C
AspN	UAA, CUA	CAA	•AA, C•A
Asp	GUA	GCA	G•A
Cys	GUU	...	...
Glu	AUG	AAG	A•G
GluN	...	AGG, AAC	...
Gly	GUG	GAG, GCG	G•G
His	AUC	ACC	A•C
Ile	UUA, AAU†	...	...
Leu	UAU, UUC, UGU	...	U•U
Lys	AUA	AAA	A•A
Met	UGA	...	...
Phe	UUU	...	...
Pro	CUC	CCC, CAC	C•C
Ser	CUU	ACG	...
Thr	UCA	ACA, CGC	•CA
Try	UGG	...	...
Tyr	AUU	...	...
Val	UUG	...	...

* Sequences from T. H. Jukes.¹¹
 † Not in Jukes' list.

are written to avoid duplication with sequences of the same base composition for other amino acid. All sequences are of course arbitrary, except for GUU and UUU for which the sequences are known.

... with any degree of certainty. It may be noted that in many cases (Table 5, column 4) a doublet is shared, with the same relative position of its bases, by two or three triplets of the same amino acid. It remains to be seen whether, in these cases, one or several transfer RNAs are involved in the read-out process. Weissblum *et al.*¹³ have reported on two leucine trans-RNAs corresponding to the 2U1G and 2U1C code letters for this amino acid.

* Aided by grants from the National Institute of Arthritis and Metabolic Diseases (Grant A-1845) of the U.S. Public Health Service and from the Jane Coffin Childs Fund for Medical Research. See previous papers of this series.