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JAN 20 1964
 JAN 27 1964

THE AMINO ACID SEQUENCES OF HUMAN ALPHA HEMOGLOBIN

CRX 1/18/64

VUSPLAIENV ILLTYIVYLH LYGOYLGLUG RMFUSFPPEI EDPHFASH YSLOVIYHYI IVLALUENLV LHVAAMPNLU SLUSAUHLHI URVAPVAFIU
 USHCUUVEUL LHUPLGFEPL VHLSUAIFUL SVSEVUESIO R)

THE AMINO ACID SEQUENCES OF HUMAN BETA HEMOGLOBIN

CRX 1/27/64

— Berty/1/27/64

VHUEPGGIGL VELUTYIVNV ALVYYGLUYR UUVVCPTEQR FFGSFYAUSF PALVMYNPIV ILHYIIVUYL FSAYULHAAA UIYEFLEUSG UHCAIUHVAP
 QAFRUUYNVU VCVULRNFIY GFEPHQLLO QIVVLYVLAL ULHIOH)

THE AMINO ACID SEQUENCES OF HUMAN GAMMA HEMOGLOBIN

CRX 1/27/64

YHFEGGAILE WESUTYIVNV GALYYGEUYR UUVVOPTEQR FFAFYNUSS LSLWYNPIV ILHYIIVUES UYALWIHAAA UIYEFLEUSG UHCAIUHVAP
 GNFIUUNVU VEVULWHFYI GFEPGVQLST QIMVEYVLSL USSROH)

THE AMINO ACID SEQUENCES OF HUMAN DELTA HEMOGLOBIN

CRX 1/27/64

VHUEPGGIGL VELUTYIVNV ALVYYGLUYR UUVVCPTEQR FFGSFYAUSF PALVMYNPIV ILHYIIVUYL FSAYULHAAA UIYEFLEUSG UHCAIUHVAP
 QAFRUUYNVU VCVULRNFIY GFEPHQLLO QIVVLYVLAL ULHIOH)

→ G or (less probably)
 N at either 124 or
 125 instead of
 pro

JAN 20 1964

HUMAN MYOGLOBIN

YUSAGTGVUY ATVIVCPAWL YHYGUVAWRU FIYHPGEUGI FAIFIHUISG AGMILSGAUI YELVI EWUIIIYHHG USLWPILGSH LGIFIVPWID
HRAASGYUF YGUSIHAYPF YLGLAYLMAI LUGUFRIALM SAGIGUYFYQ)

SPERM WHALE MYOGLOBIN

** CRX. ST. 1/28/64
Email J. CRX 1/20/64*
VLC-YG TSHVWV
VUYGTGVUIL TLIVQLAVLY HYGAUWRUF ISHPGEUGIF ARFIHUIEGL GMILSGAUI HYVEI Y LUUIIIYHH *GUGLIPULGS* HLEIHIWPWI
DUGFWSCLWH HVURHPYAFY LALGYHMAI LUGUFRIAWL LIGIGUYOYC)

EGG WHITE LYSCZYME CANFIELD JBC 8/63

IVFYRCGULL LMIRHYLAND RYOSUYNTVC LLIFGSNFNE QLENRNEAYS EADYIUQWNS RTTCN YSRNUCNWPC SLUUSSAWEL SVNCLIIWVS
AYAYMNLTVL TRNRCIYEAV QLTWRYCRU)

BOVINE RIBONUCLEASE (QUOTED FROM FOX/COMP BIOCH P.203

IGELLLIFGR SESSNHMGLL SSSNOCNQMM ISRNUEIARC IPVNEFVHGS ULAVQLVCSQ INVLCIN N QCOQSOSEMS WEACRGSEYS IOPNLCOIEE
NLQIHWWVLC GYNPOVPVHF ALSV)

HUMAN HEART CYTOCHROME C SMITH JBC 8/63

YAVGIYIWF WMICSNCHEV GIYYIHIEYP NUHYUFYRIE YNLPYOSOEL LNINIYWWTY GAEUMGUGN PIIOWPYEIM WFLYWIIIGG RLAUWLOUII
LENG)

HORSE CYTOCHROME JBC 8/63 SMITH

YAVGIYIWF VQICLNCHVEV GIYYIHIEYP NUHYUFYRIE YNLPYFEOEA LNINIYWWTY GAEUMGUGN PIIOWPYEIM WFLYWIIIGG RGAUWLOUII
LENG)

SHEEP RIBONUCLEASE QUOTED FROM FOX

IGSLLLIFGR SESSNHMGLL SSSNOCNQMM ISRNUEGARC IPVNEFVHGS ULAVQLVCSQ INVLCINYEN QCOQSOSEMS WEACRGSEYS IOPNLCOIEE
NLQIHWWVLC GYNPOVPVHF ALSV)

Handwritten notes:
L...
L...
E...
W...
same
E.3

PHOTOCOPIED FROM THE FILES OF THE NATIONAL ARCHIVES

JAN 27 1964

JAN 20 1964

HUMAN MYOGLOBIN

YUSAGTGVUY ATVIVCPAWL YHYGUVAWRU FIYHPGEUGI FAIFIHUISG AGMILSGAUI YELVHULUYU EWUIIIYHHG USLWPILGSH LGIFIVPWIO
HRAASGYUUF YGUSIHAYPF YLGLAYLMAI LUGUFRIALM SAOIGUYFYQ)

SPERM WHALE MYOGLOBIN

Emil J. CRK 1/20/64

VUYGTGVUIL TLIVQLAVLY HYGAUWRUF ISHPGEUGIF ARFIHUIEGL GMILSGUAI HYVEVUELUY LUUIIIYHH GUGLIPULQS HLEIHIWPWI
CUGFWSGLWH HVURHPYAFY LALGYWMAI LUGUFRIAWL LIOIGUYOYQ)

EGG WHITE LYSOZYME CANFIELD JBC 8/63

CRK 1/28/64

IVFYRCCULL LMIRHYLAND RYOSUYNTVC LLIFGNSFNE QLENRNEAYS EADYUQWNS RTTCNAYREP YSRNUCNWPC SLUUSSAWEL SYNCLIIWVS
AYAYMNLTVL TRNRCIYEAV QLTWRYCRU)

BOVINE RIBONUCLEASE (QUOTED FROM FOX/COMP BIOCH P.203

IGELLLIFGR SESSNHMGLL SSSNOCNQMM ISRNUEIARC IPVNEFVHGS ULAVQLVCSQ INVLCINYEN CCOQSOSEMS WEACRGSEYS IOPNLCOIEE
NLQIHWWVLC GYNPOVPVHF ALSV)

HUMAN HEART CYTOCHROME C SMITH JBC 8/63

YAVGIYIWF WMICN^WCHEV GIYYIHIEYP NUHYUFYRIE YNLPYOSOEL LNINIYWWTY GAEUMGOUN PIIOWPYEIM WFLYWIIEG RLAUWLOUII
LENG)

HORSE CYTOCHROME JBC 8/63 SMITH

YAVGIYIWF VQICLN^WCHEV GIYYIHIEYP NUHYUFYRIE YNLPYFEOEA LNINIYWWTY GAEUMGOUN PIIOWPYEIM WFLYWIIEG RGAUWLOUII
LENG)

SHEEP RIBONUCLEASE QUOTED FROM FOX

IGSLLIFGR SESSNHMGLL SSSNOCNQMM ISRNUEGARC IPVNEFVHGS ULAVQLVCSQ INVLCINYEN CCOQSOSEMS WEACRGSEYS IOPNLCOIEE
NLQIHWWVLC GYNPOVPVHF ALSV)

Dear Josh:
only one more
error. Every-
thing checked
against corres-
ponding references

□ = sequence
uncertain

Amities

Emil

SP-204 ENGINEERED FOR HIGH SPEED PRINTERS 14118