

We would like to announce that Michael James of the University of Alberta will be joining Wayne Hendrickson and Jan Hermans on our Advisory Board. At this time we would like to thank Jane Richardson for her service on the Board over the past three years.

The Protein Data Bank will be represented at several conferences over the coming months, as indicated below. These will be excellent opportunities for us to meet with users, and we will be happy to answer questions and accept suggestions.

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| May 13-18 | Workshop: Molecular Dynamics Methods and Protein Structure, UNC, Chapel Hill, Enrique Abola. |
| May 21-25 | ACA Meeting, Lexington, Kentucky, Thomas Koetzle. |
| June 24-28 | Ninth International CODATA Conference, Jerusalem, Israel, Frances Bernstein. |
| July 29-Aug 4 | 8th International Biophysics Congress, Bristol, England, Thomas Koetzle. |
| Aug 6-8 | Symposium on Neutron Scattering, West Berlin, FRG, Thomas Koetzle. |
| Aug 9-18 | XII IUCr Meeting, Hamburg, FRG, Thomas Koetzle. |

Because structure factor files are frequently very large, we have found it necessary to start a third tape for distribution of these data files. This tape is identified as NONST3TP and the corresponding microfiche is NONST3FI. No files will be added to NONST1TP or NONST2TP although files may be deleted if they become obsolete. We will continue to add new files to NONST3TP until it, too, becomes full.

Inquiries may be addressed to any of the persons listed below. The order form on pages 5-6 of this Newsletter may be used to order data from Brookhaven or Cambridge; users in Australia or Japan should contact their centers for detailed information.

Area	Address of Center	Name	
The Americas	Protein Data Bank	E. E. Abola	516-282-4383
	Chemistry Department	F. C. Bernstein	516-282-4382
	Brookhaven National Laboratory	T. F. Koetzle	516-282-4384
	Upton, New York 11973, USA		
Europe and Worldwide	University Chemical Laboratory	O. Kennard	0223-66499
	Lensfield Road Cambridge CB2 1EW, England	S. Bellard	
Australia	CSIRO Central Information Service P. O. Box 89, East Melbourne Victoria 3002, Australia	C. Garrow	03-418-7333
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2, Suita, Osaka 565, Japan	N. Yasuoka	(06) 877-5111 ext. 3912

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TABLE 1. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MAGNETIC TAPE

CODE	ITEM	23-APR-84			NO. TAPES			AVAILABILITY		
		800	1600	6250	US	UK	JA	AUS		
DATAPRT	ALL CURRENT PROGRAMS, BIBLIOGRAPHIC ENTRIES, COORDINATE ENTRIES (TABLES 3, 4, 8)	2	2	1	X	X	X	X	X	X
YEAR83TP	NEW OR REVISED COORDINATE ENTRIES FOR 1983	1	1	1	X					
PART84TP	NEW OR REVISED COORD ENTRIES 1984 (TO DATE)	1	1	1	X					
NONST1TP	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 5)	2	1	1	X	X	X			
NONST2TP	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 6)	2	1	1	X	X	X			
NONST3TP	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 7)	1	1	1	X	X	X			
BENDERTP	PARAMETERS FOR BENT-WIRE MODELS	1	1	1	X					
BLDKITTP	MODEL BUILDER'S KIT									
CONNECTP	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS	2	1	1	X					
DGLOTP	DIAGONAL PLOTS (LINE PRINTER)	1	1	1	X					
DIHDLTP	COMPLETE TORSION ANGLES	2	1	1	X					
DSTNCTP	CONNECTIVITY SPECIFICATIONS WITH DISTANCES	2	1	1	X					
FISPLTP	PHI/PSI PLOTS (LINE PRINTER)	1	1	1	X					
PHIPSTP	LISTS OF PHI/PSI/OMEGA VALUES	1	1	1	X					

* NEW OR REPLACEMENT ENTRY SINCE JAN-84 NEWSLETTER

TABLE 2. PROTEIN DATA BANK, INFORMATION AVAILABLE ON MICROFICHE

CODE	ITEM	23-APR-84			AVAILABILITY		
		US	UK	JA	AUS		
DATAPRF	ALL CURRENT PROGRAMS, BIBLIOGRAPHIC ENTRIES, COORDINATE ENTRIES (TABLES 3, 4, 8)				X	X	X
YEAR83FI	NEW OR REVISED COORDINATE ENTRIES FOR 1983				X		
PART84FI	NEW OR REVISED COORD ENTRIES 1984 (TO DATE)				X		
NONST1FI	STRUCTURE FACTOR HOLDINGS (PART 1 - TABLE 5)				X	X	X
NONST2FI	STRUCTURE FACTOR HOLDINGS (PART 2 - TABLE 6)				X	X	X
NONST3FI	STRUCTURE FACTOR HOLDINGS (PART 3 - TABLE 7)				X	X	X
CORR13FI	LIST OF CORRECTIONS NO. 13 (JUL/83 - JAN/84)				X	X	X
BENDERFI	PARAMETERS FOR BENT-WIRE MODELS				X		
BLDKITFI	MODEL BUILDER'S KIT						
CONNECTFI	CONNECTIVITY SPECIFICATIONS FOR ALL ATOMS						
DGLOTFI	DIAGONAL PLOTS (LINE PRINTER)				X		
DIHDLFI	COMPLETE TORSION ANGLES				X		
DSTNCFI	CONNECTIVITY SPECIFICATIONS WITH DISTANCES				X		
FISPLFI	PHI/PSI PLOTS (LINE PRINTER)				X		
PHIPSI	LISTS OF PHI/PSI/OMEGA VALUES				X		

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TABLE 4. PROTEIN DATA BANK, AVAILABLE PROGRAMS

NAME	PURPOSE	AUTHOR(S)	23-APR-84	
			REV DATE/	SUPPORTED
BENDER	PARAMETERS FOR BENT-WIRE MODELS	G.WILLIAMS	4/82	YES
BLDKIT	MODEL BUILDER'S KIT	E.ABOLA	2/84	YES
CHIRAL	CHECK CHIRALITY	E.ABOLA	1/82	YES
CONNECT	GENERATE FULL CONNECTIVITY	F.BERNSTEIN	8/82	YES
CONCT	INTERMOLECULAR CONTACTS	L.ANDREWS	5/83	NO
DGLOPLOT	DIAGONAL PLOTS ON PRINTER	E.SWANSON,F.BERNSTEIN	1/83	YES
DIHDL	COMPLETE TORSION ANGLES	E.ABOLA	3/80	YES
DRCTRY	*DIRECTORY OF PDB DISTRIBUTION TAPE	E.ABOLA	1/84	YES
DSSP	*SECONDARY STRUCTURE, SOLVENT EXPOSURE	N.KABSCH,C.SANDER	12/83	NO
DSTNCE	CALC DISTANCES FROM CONECT RECORDS	F.BERNSTEIN	8/82	YES
FISPL	PHI/PSI PLOTS ON PRINTER	F.BERNSTEIN	5/79	YES
LSM	COLOR-CODED ALPHA-CARBON MODELS	R.MATELA,R.FLETTERICK	3/82	NO
NAMOD	BALL-AND-STICK MODEL DISPLAY	Y.BEPPU	11/78	NO
PHIPSI	MAIN-CHAIN TORSION ANGLES	ANDREWS,WILLIAMS,BERNSTEIN	2/79	YES
REFMTE	*REFORMAT DATA FOR SUPERTAB,SUPERB	L.RELLICK,J.DUANE	12/83	NO
STEREO	EXTRACT X,Y,Z FROM STEREO DIAGRAMS	M.ROSSMANN	6/79	NO
TAPDIR	PRINT DIRECTORY OF TAPE CONTENTS	H.BERNSTEIN,F.BERNSTEIN	11/79	YES
THEOD	MEASURE COORDINATES WITH THEODOLITE	L.LEBLOD	1/82	NO
TORSRU	COMPLETE TORSION ANGLES	G.REEKE	10/79	NO
TOTALS	VALIDATION OF MASTER RECORD	L.ANDREWS,F.BERNSTEIN	3/82	YES

* NEW OR REPLACEMENT ENTRY SINCE JAN-84 NEWSLETTER

SUPPORTED PROGRAMS ARE THOSE FOR WHICH STAFF OF THE PROTEIN DATA BANK WILL PROVIDE CORRECTIONS FOR DEMONSTRATED ERRORS.

TABLE 3. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

IDENT CODE	MOLECULE	DEPOSITOR(S)	DATE/STATUS		
2APE	ACID PROTEINASE (ENDOTHA PARASITICA)	T. BLUNDELL	9/81	2LH5	LEGHEMOGLOBIN (FLUORO MET)
2AFP	ACID PROTEINASE (PENICILLIUM JUMJANTHINELLUM)	S. STELCEK, M. JAMES	1/83 R	1LH6	LEGHEMOGLOBIN (NICOTINATE MET)
1APR	ACID PROTEINASE (RHIZOPUS CHINENSIS)	D. DAVIES	8/79	2LH7	LEGHEMOGLOBIN (NICOTINATE MET)
2ACT	ACTINIDIN	E. BAKER	11/79	2LH8	LEGHEMOGLOBIN (FERRO) (NITROSOBENZENE)
1ACX	ACTINOXANTHIN	V. PLETNEV, A. KUZIN	12/82	2LH7	LEGHEMOGLOBIN (FERRO) (NITROSOBENZENE)
2ADK	ADENYLATE KINASE (PORCINE MUSCLE)	G. SCHULZ	3/77	1L2M	LYSOZYME (BACTERIOPHAGE T4)
1AGA	AGAROSE	S. ARNOTT	5/78	1LYZ	LYSOZYME (HEN EGG-WHITE, SET W2)
2AG4	AGGLUTININ (WHEAT GERM)	C. HFTOFT	5/80	2LYZ	LYSOZYME (HEN EGG-WHITE, SET R50)
4ADH	ALCOHOL DEHYDROGENASE (APO)	C. -I. BRANDEN	9/79	3LYZ	LYSOZYME (HEN EGG-WHITE, SET R5A)
1ALP	ALPHA LYTIC PROTEASE	BRAYER, DELBAERE, JAMES	6/79	4LYZ	LYSOZYME (HEN EGG-WHITE, SET R5A)
2TAA	TAKA-AMYLASE	KUSUNOKI, MATSUURA, KAKUDO	10/82	5LYZ	LYSOZYME (HEN EGG-WHITE, SET RS12A)
1ABP	L-ARABINOSIDE-BINDING PROTEIN	F. QUIOCHO, G. GILL LIND	5/80	6LYZ	LYSOZYME (HEN EGG-WHITE, SET RS16)
1AAT	CYTOSOLIC B-ARTY AMOTRANSFERASE	HARUTYUNYAN, MALASHKEVICH	4/82 A	7LYZ	LYSOZYME (HEN EGG-WHITE, TRICLINIC)
2ATC	ASPARTATE CARBOXYLTRANSFERASE	W. LIPSCOMB	3/82 R	8LYZ	LYSOZYME (HEN, NAM-NAG-NAM SUBSTRATE ONLY)
3ATC	ASPARTATE CARBOXYLTRANSFERASE/CTP	E. ADMAN, L. SIEKER, L. JENSEN	8/80	1L2H	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)
1AZU	AZURIN	B. MATTHEWS	1/79 A	2L2H	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)
2BCL	BACTERIOCHLOROPHYLL A-PROTEIN	D. AGARD, S. SPENCER, R. STROUD	4/80 A	1LYM	LYSOZYME (HEN EGG-WHITE, MONOCLINIC)
1ABX	ALPHA-BUNGAROTOXIN	R. KRETSINGER	8/79	1L22	LYSOZYME (TURKEY EGG-WHITE)
1CPV	CALCIUM-BINDING PARVALBUMIN SET 6A	R. KRETSINGER	9/78	2MH	MALATE DEHYDROGENASE
2CPV	CALCIUM-BINDING PARVALBUMIN SET 6H	R. KRETSINGER	8/78	1MLT	MELITTIN
3CPV	CALCIUM-BINDING PARVALBUMIN SET 6I	R. KRETSINGER	8/78	1MBS	MYOGLOBIN (SEAL, MET)
1ICB	CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZEKENYI, K. MOFFAT	7/83	1MBN	MYOGLOBIN (SPERM WHALE, MET)
1ICAP	CAPSULAR POLYSACCHARIDE (E. COLI M41)	S. ARNOTT	5/78	2MBN	MYOGLOBIN (SPERM WHALE, MET)
2CAB	CARBONIC ANHYDRASE B (HUMAN)	K. KANNAN	10/83 R	3MBN	MYOGLOBIN (SPERM WHALE, MET)
1CAC	CARBONIC ANHYDRASE C (HUMAN)	K. KANNAN	9/78	1MBD	MYOGLOBIN (SPERM WHALE, DEOXY)
3CPA	CARBOXYPEPTIDASE A/GLYCYLTYROSINE	D. REES, W. LIPSCOMB	3/82 R	1MB0	MYOGLOBIN (SPERM WHALE, OXY)
4CPA	CARBOXYPEPTIDASE A/POTATO INHIBITOR	D. REES, W. LIPSCOMB	3/82	1MB5	MYOHEMERYTHRIN
5CPA	CARBOXYPEPTIDASE A/WATER (BOVINE)	D. REES, W. LIPSCOMB	5/82	1MH4	MYOHEMERYTHRIN
1CPB	CARBOXYPEPTIDASE B (BOVINE)	M. SCHMID, J. HERRIOTT	6/76 A	1NKB	NEUROTOXIN B (LATICAUDA SEMIFASCIATA)
1CAR	CARRAGEENAN	S. ARNOTT	7/82 R	1SN3	SCORPION NEUROTOXIN (VARIANT 3)
3CAT	CATALASE (BEEF LIVER)	M. ROSSMANN	7/82 B	1OV0	OVOUMUCOID THIRD DOMAIN (JAPANESE QUAL)
4CAT	CATALASE (PENICILLIUM VITALE)	B. VAINShteIN ET AL.	2/83 B	1PPT	AVIAN PANCREATIC POLYPEPTIDE
1CH5	CHONDROITIN-4-SULFATE	S. ARNOTT	5/78	6PAP	PAPAIN (NATIVE)
2CH5	CHONDROITIN-4-SULFATE (CA SALT)	S. ARNOTT	5/78	1PAD	PAPAIN (ACE-ALA-ALA-PHE-ALA, CYS-25)
2CHA	ALPHA-CHYMOTRYPSIN (TOSYL)	A. TULINSKY	1/75	2PAD	PAPAIN (CYS DERIV OF CYS-25)
3CHA	ALPHA-CHYMOTRYPSIN	R. COHEN, DAVIES, SILVERTON	9/78	3PAD	PAPAIN (OXIDIZED CYS-25)
2GCH	GAMMA-CHYMOTRYPSIN	J. KRAUT, J. BIRKTOFT	3/75	4PAD	PAPAIN (TOS-LYS, CYS-25)
1CHG	CHYMOTRYPSINOGEN	W. SAENGER, M. WALKINSHAW	3/82	5PAD	PAPAIN (BZOXY-GLY-PHE-GLY, CYS-25)
1CTA	ALPHA-1-CYANOBIOTIN	G. RECKE, J. BECKER, G. EDELMAN	4/75	6PAD	PAPAIN (BZOXY-PHE-ALA, CYS-25)
2CNA	CONCAVALIN A	K. HARDY	1/83	1PEP	PEPFRONIN (PORCINE)
3CNA	CONCAVALIN A	M. SHOHAM	12/81	1PFC	PFC FRAGMENT OF AN IGG
1CN1	CONCAVALIN A (DEMETALLIZED)	W. HENDRICKSON, M. TEETER	5/81	3PGK	PHOSPHOGLYCERATE KINASE (YEAST)
1CRN	CRABMIN	F. S. MATHEWS	12/77	2PGK	PHOSPHOGLYCERATE KINASE (HORSE)
2BSC	CYTOCHROME B5 (OXIDIZED)	B. ETHAGE, C. ZERWINSKI, MATHEWS	7/80	3PGM	PHOSPHOGLYCERATE MUTASE
156B	CYTOCHROME B5E2 (E. COLI, OXIDIZED)	T. TAKANO, R. DICKERSON	8/79	3RWN	PROPHOSPHALIPASE A2 (BOVINE)
3CYT	CYTOCHROME C (ALBACORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/83	2B25	PROPHOSPHALIPASE A2 (BOVINE)
4CYT	CYTOCHROME C (ALBACORE, REDUCED)	M. KAKUDO	9/76	3BP2	PROPHOSPHALIPASE A2 (BOVINE) TRANSAMINATED
1CYC	CYTOCHROME C (BONITO, HEART)	H. OCHI, N. TANAKA	3/83	1P2P	PROPHOSPHALIPASE A2 (PORCINE)
1CCR	CYTOCHROME C (RICE)	P. WEBER, R. SALEMME	8/81	1PCY	PLASTOCYANIN
1CCY	CYTOCHROME C (RHINE)	B. F. INZEL, T. POLJOS, J. KRAUT	11/83	2PAB	PLASTOCYANIN (POPLAR)
1CCP	CYTOCHROME C PEROXIDASE (YEAST)	G. BHATIA, B. F. INZEL, J. KRAUT	9/77 R	25GA	PROTEINASE A (STREPTOMYCES GRISEUS)
2CCY	CYTOCHROME C2 (OXIDIZED)	G. BHATIA, B. F. INZEL, J. KRAUT	11/83	35GB	PROTEINASE B (STREP. GRISEUS) (OMTKY3)
3CCY	CYTOCHROME C2 (REDUCED)	N. YASUOKA, M. KAKUDO	11/83 R	1PY1	INORGANIC PYRROPHOSPHATASE
2CDZ	CYTOCHROME C3 (DESULFOVIBRIO VULGARIS)	R. TIMKOVICH	8/76	1PYK	PYRUVATE KINASE (CAT)
155C	CYTOCHROME C550	M. LUDWIG	12/77	1RH01	RHODANASE (HUMAN PLASMA)
351C	CYTOCHROME C551 (OXIDIZED)	M. LUDWIG	12/77	4R5A	RIBONUCLEASE A (XRAY-NEUTRON)
451C	CYTOCHROME C551 (REDUCED)	M. LUDWIG	12/77	1RN3	RIBONUCLEASE A
3DRF	DIHYDROFOLATE REDUCTASE (L. CASEI)	J. BOLIN, D. MATTHEWS, J. KRAUT	6/82 R	1RN5	RIBONUCLEASE S
4DRF	DIHYDROFOLATE REDUCTASE (E. COLI)	J. BOLIN, D. MATTHEWS, J. KRAUT	6/82 R	2RKN	RUBREDOXIN (CLOSTRIDIUM PASTEURIANUM)
1ANA	DNA (A, 5-PRIME)-D-10DD-CGGG-3 (PRIME)	B. CONNER, R. DICKERSON	1/82	2RUB	RUBREDOXIN (DESULFOVIBRIO VULGARIS)
1BNA	DNA (B, CGCGAATTCGG, SYNTHETIC, 290 DEG K)	H. DREW, R. DICKERSON	6/76	2SNS	STAPHYLOCOCCAL NUCLEASE (EBOVINE)
2BNA	DNA (B, CGCGAATTCGG, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	7/81	25S1	STABILISIN INHIBITOR (STREPTOMYCES)
3BNA	DNA (B, 9-BR-CGCGAATTCGG, 2 DEG C)	KOPKA, FRATINI, DICKERSON	2/82	1SBT	SUBTILISIN BPN, PRIME
4BNA	DNA (B, 9-BR-CGCGAATTCGG, 7 DEG C)	KOPKA, FRATINI, DICKERSON	2/82	2SBT	SUBTILISIN NOVO
5BNA	DNA (B, CGCGAATTCGG, SYNTHETIC) / CISPLATIN	WING, P. JARA, DREW, DICKERSON	9/83	2S00	SUPEROXIDE DISMUTASE
1ZNA	DNA (Z, CGCG, HIGH-SALT, SYNTHETIC)	H. DREW, R. DICKERSON	1/81	3TLN	THERMOLYSIN (NATIVE)
1EST	ELASTASE (PORCINE)	W. STEIGEMANN, E. WEBER	5/76	4TLN	THERMOLYSIN (L-LEU-NH2)
1ECD	ERYTHROCURORIN (REDUCED, DEOXY)	W. STEIGEMANN, E. WEBER	3/79	5TLN	THERMOLYSIN (HONH-BZHALONYL-A-G-NITROANL)
1ECO	ERYTHROCURORIN (CARBONMONOXY)	W. STEIGEMANN, E. WEBER	3/79	7TLN	THERMOLYSIN (CH2CN-ONH-LEUCO)
1ECA	ERYTHROCURORIN (AQUO, MET)	W. STEIGEMANN, E. WEBER	3/79	1SRX	THIOREDOXIN (E. COLI, OXIDIZED)
1ECN	ERYTHROCURORIN (CYANO, MET)	W. STEIGEMANN, E. WEBER	3/79	4TRN	TRANSFER RNA (YEAST, PHE)
2FD1	FERRIDOXIN (AZOTOBACTER VINELANDII)	STOUT, GHOSH, FUREY, O'DONNELL	1/81	6TNA	TRANSFER RNA (YEAST, PHE)
1FDX	FERRIDOXIN (PEPTOCOCCUS AEROGENES)	H. ADMAN, L. SIEKER, L. JENSEN	6/76	6TNA	TRANSFER RNA (YEAST, PHE)
3FXC	FERRIDOXIN (SPIRULINA PLATENSIS)	TSUKIHARA, KATSURE, KAKUDO	12/81	6TNA	TRANSFER RNA (YEAST, PHE)
3FXN	FLAVODOXIN (CLOSTRIDIUM MP. OXIDIZUM)	M. LUDWIG	12/77	1TIM	TIROSE PHOSPHATE ISOMERASE
4FXN	FLAVODOXIN (CLOSTRIDIUM MP. SEMIQUINONE)	M. LUDWIG	12/77	2PTN	TRYPSIN (ORTHORHOMBIC, 2.4M (NH4)2SO4)
1GFP	GALACTOSE-BINDING PROTEIN	S. MOHRAY, G. PETSKO	8/83 A	1TPO	TRYPSIN (ORTHORHOMBIC, 2.4M (NH4)2SO4)
1GCN	GLUCAGON	T. BLUNDELL	10/77	3PTN	TRYPSIN (ORTHORHOMBIC, 2.4M (NH4)2SO4)
1PG1	GLUCOSE-6-PHOSPHATE ISOMERASE	G. SCHULZ	11/81	3PTB	TRYPSIN (BENZAMIDINE INHIBITED)
2GRS	GLUTATHIONE REDUCTASE (HUMAN)	M. ROSSMANN	7/75	1TPP	TRYPSIN (P-AMIDINO-PHENYL-PYRUVATE)
1GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	M. ROSSMANN	12/79	3PTP	TRYPSIN (DIP INHIBITED)
2GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE	H. WATSON, J. CAMPBELL	6/83	4PT1	TRYPSIN INHIBITOR (BOVINE, PANCREAS)
3GPD	GLYCERALDEHYDE-3-P-DEHYDROGENASE (HUMAN)	W. HENDRICKSON	7/83 A	2PTC	TRYPSIN/TRYPSIN INHIBITOR COMPLEX
1HRB	HEMERYTHRIN B	STENKAMP, SIEKER, JENSEN	2/83 R	1TPA	TRYPSIN (ANHYDRO)/TRYPSIN INHIBITOR
1HM2	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83 R	1TGN	TRYPSINOGEN
1HM3	HEMERYTHRIN (AZIDO, MET)	SMITH, HENDRICKSON, ADDISON	5/83	21GA	TRYPSINOGEN (2.4M MGS04)
1HM5	HEMERYTHRIN (AZIDO, MET, SIPHONOSOMA)	E. AMHA, R. GIRLING	10/79	1TGC	TRYPSINOGEN (5 CH3OH, .5 HOH)
1HDS	HEMOGLOBIN (DEER, CELL)	R. LADNER, HELDNER, PERUTZ	2/77	1TGT	TRYPSINOGEN (1.73 DEG K, .7 CH3OH, .3 HOH)
2MH8	HEMOGLOBIN (HORSE, AQUO MET)	M. PERUTZ, G. FERMI	11/73	21GT	TRYPSINOGEN (1.03 DEG K, .7 CH3OH, .3 HOH)
2DH8	HEMOGLOBIN (HORSE, DEOXY)	M. PERUTZ, G. FERMI	11/73	1TGB	TRYPSINOGEN (WITH CA, FROM PEG)
1HH8	HEMOGLOBIN (HUMAN, DEOXY)	J. BALDWIN	8/79	21PT	TRYPSINOGEN/TRYPSIN INHIBITOR
1HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY)	J. BALDWIN	8/79	3TPI	TRYPSINOGEN/TRYPSIN INHIBITOR / ILE-VAL
2HCO	HEMOGLOBIN (HUMAN, CARBONMONOXY, NRG REFND)	J. BALDWIN	8/79	2P1I	TRYPSINOGEN/PTI / ILE-VAL (MERCURATED)
1HHO	HEMOGLOBIN (HUMAN, OXY)	J. FRIER	6/83	1TGS	TRYPSINOGEN/PTI
1FDH	HEMOGLOBIN (HUMAN, FETAL, CELL)	E. PADLAN, W. LOVE	6/82	1T51	TYROSYL TRANSFER RNA SYNTHETASE
1HBS	HEMOGLOBIN S (HUMAN, SICKLE CELL)	H. ENDRICKSON, LOVE, KARLE	3/73	25BV	VIRUS COAT PROTEIN (SOUTHERN BEAN MOSAIC)
1LH8	HEMOGLOBIN (LAMPREY)	STEITZ, ANDERSON, STENKAMP	3/78		
2YHK	HEXOKINASE (YEAST) FORM B111	W. BENNETT JR., T. STEITZ	12/80		
1HK6	HEXOKINASE A - GLUCOSE COMPLEX (YEAST)	J. KRAUT	4/75		
1HIP	HIGH POTENTIAL IRON PROTEIN	S. ARNOTT	11/77		
1HYA	HYALURONIC ACID (NA SALT, 3-FOLD HELIX)	S. ARNOTT	5/78		
2HYA	HYALURONIC ACID (NA SALT, 4-FOLD HELIX)	S. ARNOTT	5/78		
3HYA	HYALURONIC ACID (NA SALT, 2-FOLD HELIX)	S. ARNOTT	5/78		
1HY4	HYALURONIC ACID (CA SALT, 3-FOLD HELIX)	S. ARNOTT	5/78		
1FB4	IMMUNOGLOBULIN F (LAMBDA) KOL	M. MARQUART, R. HUBER	5/83		
3FAB	IMMUNOGLOBULIN F AB, PRIME, NEW	R. POLJAK	9/81		
1MC6	IMMUNOGLOBULIN B-J INTACT MCG	SCHIFFER, EDMUNDSON ET AL.	5/78 A		
1RE1	IMMUNOGLOBULIN B-J FRAGMENT (V-DIMER) REI	O. EPP, R. HUBER	3/76		
2RHE	IMMUNOGLOBULIN B-J FRAGMENT (V-MHMER) RHE	FUREY, WANG, YOO, SAX	6/83 R		
1FC1	IMMUNOGLOBULIN F (HUMAN)	J. DEISENHOFER	5/81		
1FC2	IMMUNOGLOBULIN FC-FRAGMENT B COMPLEX	J. DEISENHOFER	5/81		
1IG2	IMMUNOGLOBULIN G1 (LAMBDA) KOL	M. MARQUART, R. HUBER	5/83		
1INS	INSULIN (PORCINE, 2-ZINC)	G. DODSON, D. HODGKIN	7/80		
2INS	INSULIN (BOVINE, 2-ZINC) DES-PHE B1	C. REYNOLDS, G. DODSON	5/82 A		
1KGA	KDPS ALDOLASE	A. TULINSKY	8/78 A		
1KES	KERATAN SULFATE	S. ARNOTT	5/78		
4LGH	LACTATE DEHYDROGENASE (DOGFISH)	W. EVENTOFF, M. ROSSMANN	4/77		
3LDH	LACTATE DEHYDROGENASE /NAD/PYRUVATE (DOGF)	M. ROSSMANN	11/74		
5LDH	LACTATE DEHYDROGENASE /S-LAC/NAD (PIG)	U. GRAU, M. ROSSMANN	10/80		
1LDX	LACTATE DEHYDROGENASE (MOUSE TESTES)	W. MISTICK, M. ROSSMANN	9/78		
1LH1	LEGHEMOGLOBIN (ACETATE MET)	VAINShteIN, HARUTYUNYAN	4/82 R		
2LH1	LEGHEMOGLOBIN (ACETATE MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH2	LEGHEMOGLOBIN (AQUO MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH2	LEGHEMOGLOBIN (AQUO MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH3	LEGHEMOGLOBIN (CYANO MET)	VAINShteIN, HARUTYUNYAN	4/82		
2LH3	LEGHEMOGLOBIN (CYANO MET)	VAINShteIN, HARUTYUNYAN	4/82		
1LH4	LEGHEMOGLOBIN (DEOXY)	VAINShteIN, HARUTYUNYAN	4/82		
2LH4	LEGHEMOGLOBIN (DEOXY)	VAINShteIN, HARUTYUNYAN	4/82		
1LH5	LEGHEMOGLOBIN (FLUORO MET)	VAINShteIN, HARUTYUNYAN	4/82		

TABLE 5. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 1, SEE ALSO TABLES 6,7)

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
RIACTSF	ACTINIDIN	E. BAKER	7/77 SF
CHYMOF	ALPHA-CHYMOTRYPSIN (TOSYL)	D. BLOK	4/73 SF
RCARP04	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
RCARP05	CALCIUM-BINDING PARVALBUMIN	R. KRETSINGER	2/74 SF
R2B5CSF	CYTOCHROME B5	F. S. MATHEWS	12/77 SF
R3CYTSF	CYTOCHROME C (ALBACORE, OXIDIZED)	T. TAKANO, R. DICKERSON	7/80 SF
R4CYTSF	CYTOCHROME C (ALBACORE, REDUCED)	T. TAKANO, R. DICKERSON	7/80 SF
RCY5501	CYTOCHROME C550	R. TIMKOVICH	4/76 SF
R1ZNASF	DNA (Z', CGCG, HIGH-SALT, SYNTHETIC)	H. DREW, R. DICKERSON	1/81 SF
R1BNASF	DNA (B, CGCGAATTCGCG, SYNTHETIC, 290 DEG K)	H. DREW, R. DICKERSON	1/81 SF
R3PD04	GLYCERALDEHYDE-3-P-DEHYDROGENASE (LOBSTR)	M. ROSSMANN	8/75 SF
R2QD5F	APO-GLYCERALDEHYDE-3-P-DEHYDROGENASE	M. ROSSMANN	6/80 SF
R2MH5F	HEMOGLOBIN (HORSE, AQUO MET AND CO)	LADNER, HEIDNER, PERUTZ	6/80 SF
R1FDH5F	HEMOGLOBIN (HUMAN, FETAL, DEOXY)	J. FRIER	6/80 SF
RHMDEH02	HEMOGLOBIN (HUMAN, DEOXY)	M. PERUTZ, G. FERMI	5/75 SF
LAMPFY1	HEMOGLOBIN (LAMPREY)	HENDRICKSON, LOVE, KARLE	5/73 SF
RLDHD5	LACTATE DEHYDROGENASE	M. ROSSMANN	12/79 SF
RLDH07	LACTATE DEHYDROGENASE/NAD/PYRUVATE	M. ROSSMANN	6/80 SF
RLDHSF	LACTATE DEHYDROGENASE/S-LAC/NAD (PIG)	U. GRAU, M. ROSSMANN	1/81 SF
RLZHSF	LYSOZYME (HEN EGG-WHITE, MONOCLONIC)	C. BLAKE, D. RICE	6/81 SF
R2LZHSF	LYSOZYME (HEN EGG-WHITE, ORTHORHOMBIC)	C. BLAKE, D. RICE	6/81 SF
RMEHYSF1	MYOGLOBIN (SPERM WHALE, MET)	T. TAKANO	6/76 SF
RDEHYSF1	MYOGLOBIN (SPERM WHALE, DEOXY)	T. TAKANO	6/76 SF
RRUBY02	RUBREDOXIN	L. JENSEN	3/81 SF
R4TNASF	TRANSFER RNA (YEAST, PHE)	A. JACK, J. LADNER, A. KLUG	6/80 SF

CODES
SF STRUCTURE FACTORS

TABLE 6. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 2, SEE ALSO TABLES 5,7)

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
R1ICBSF	CALCIUM-BINDING PROTEIN (INTESTINAL)	D. SZEKENYI, K. MOFFAT	7/83 SF
R1CCRSF	CYTOCHROME C (RICE)	H. OCHI, N. TANAKA	3/83 SF
R351CSF	CYTOCHROME C551 (OXIDIZED)	T. TAKANO, R. DICKERSON	9/81 SF
RW51CSF	CYTOCHROME C551 (REDUCED)	T. TAKANO, R. DICKERSON	9/81 SF
R1ANASF	DNA (A, D-1000-CGCG) SPACE GROUP P 43 21 2	B. CONNER, R. DICKERSON	6/82 SF
R1ANAP2	DNA (A, D-1000-CGCG) SPACE GROUP P 21	B. CONNER, R. DICKERSON	6/82 SF
R2BNASF	DNA (B, CGCGAATTCGCG, SYNTHETIC, 16 DEG K)	H. DREW, R. DICKERSON	11/81 SF
R3BNASF	DNA (B, 9-BR-CGCGAATTCGCG, 20 DEG C)	KOPKA, FRATINI, DICKERSON/2	8/82 SF
RWBNASF	DNA (B, 9-BR-CGCGAATTCGCG, 7 DEG C)	KOPKA, FRATINI, DICKERSON/2	8/82 SF
R5BNASF	DNA (B, CGCGAATTCGCG, SYNTHETIC) / CISPLATIN	WING, PUJARA, DREW, DICKSON	8/83 SF
R1GAS5F	GLUTAMINASE-ASPARAGINASE (ACINETOBACTER)	H. AMMON	12/82 SF
R1GAS5F	GLUTAMINASE-ASPARAGINASE (PSEUDOMONAS 7A)	H. AMMON	12/82 SF
R1HM9SF	HEMERYTHRIN (MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R1HMZ5F	HEMERYTHRIN (AZIDO, MET)	STENKAMP, SIEKER, JENSEN	2/83 SF
R2INS5F	INSULIN (BOVINE, 2-ZINC) DES-PHE B1	C. REYNOLDS, G. DODSON	5/82 SF
RLH1HSF	LEGHEMOGLOBIN (ACETATE, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH1HSF	LEGHEMOGLOBIN (ACETATE, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH2HSF	LEGHEMOGLOBIN (AQUO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH2HSF	LEGHEMOGLOBIN (AQUO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH3HSF	LEGHEMOGLOBIN (CYANO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH3HSF	LEGHEMOGLOBIN (CYANO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH4HSF	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH4HSF	LEGHEMOGLOBIN (DEOXY)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH5HSF	LEGHEMOGLOBIN (FLUORO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH5HSF	LEGHEMOGLOBIN (FLUORO, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH6HSF	LEGHEMOGLOBIN (NICOTINATE, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH6HSF	LEGHEMOGLOBIN (NICOTINATE, MET)	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH7HSF	LEGHEMOGLOBIN (FERRO) / NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLH7HSF	LEGHEMOGLOBIN (FERRO) / NITROSOBENZENE	VAINSHTEIN, HARUTYUNYAN	4/82 SF
RLYMSF	LYSOZYME (HEN EGG-WHITE, MONOCLONIC)	HOGLE, RAO, SUNDARALINGAM/2	8/82 SF
RLMLTSF	MELITTIN	TERWILLIGER, EISENBERG	8/81 SF
R1OV0SF	OVOMUCOID FRAGMENT	E. PAPAMOKOS, R. HUBER	1/82 SF
R2BP2SF	PROPHOSPHOLIPASE A2 (BOVINE)	D. JUKSTRA, HOL, DRENTH	9/81 SF
R1PYPSF	INORGANIC PYROPHOSPHATASE	E. HARUTYUNYAN ET AL.	2/83 SF
R1RN3SF	RIBONUCLEASE A	BORKAKOTI, MOSS, PALMER	6/82 SF
RHRAS5F	RIBONUCLEASE A (XRAY)	A. WLODAWER	6/82 SF
RHRAS5F	RIBONUCLEASE A (NEUTRON)	A. WLODAWER	6/82 SF
R3TLNSF	THERMOLYSIN (MET)	B. MATTHEWS, M. HOLMES	2/82 SF
R2PTNSF	TRYPsin (ORTHORHOMBIC, 2.4M (NH4)2SO4)	J. WALTER, R. HUBER	10/81 SF
R1PT0SF	TRYPsin (ORTHORHOMBIC)	BODE, WALTER, HUBER	9/82 SF
R3PTNSF	TRYPsin (TRIGONAL, 2.4M (NH4)2SO4)	J. WALTER, R. HUBER	10/81 SF
R3PTBSF	TRYPsin (BENZAMIDINE INHIBITED)	BODE, SCHLAGER, WALTER	9/82 SF
R1TPPSF	TRYPsin / P-AMINO-PHENYL-PHYRUVATE	WALTER, BODE, HUBER	9/82 SF
R4PT1SF	TRYPsin INHIBITOR (BOVINE, PANCREAS)	R. HUBER, J. DEISENHOFER	9/82 SF
R2PT0SF	TRYPsin / TRYPsin INHIBITOR COMPLEX	HUBER, BODE, DEISENHOFER	9/82 SF
R1TPASF	TRYPsin (ANHYDRO) / TRYPsin INHIBITOR	R. HUBER, BODE, DEISENHOFER	9/82 SF
R2TGASF	TRYPsin (2.4M MGSO4)	J. WALTER, R. HUBER	10/81 SF
R1T0CSF	TRYPsin (1.5 CH3OH, .5 HOH)	J. WALTER, R. HUBER	10/81 SF
R1T0CSF	TRYPsin (1.73 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER	10/81 SF
R2T0TSF	TRYPsin (1.03 DEG K, .7 CH3OH, .3 HOH)	J. WALTER, R. HUBER	10/81 SF
R2T0TSF	TRYPsin (1.03 DEG K, .7 CH3OH, .3 HOH)	R. HUBER ET AL.	9/82 SF
R3T1PSF	TRYPsin (1.03 DEG K, .7 CH3OH, .3 HOH)	R. HUBER ET AL.	9/82 SF
R2T1PSF	TRYPsin (1.03 DEG K) / ILE-VAL	J. WALTER, R. HUBER	10/81 SF
R1T0SSF	TRYPsin (1.03 DEG K) / ILE-VAL (MERCURATED)	R. HUBER ET AL.	9/82 SF

CODES
SF STRUCTURE FACTORS

TABLE 7. PROTEIN DATA BANK, STRUCTURE FACTOR HOLDINGS (PART 3, SEE ALSO TABLES 5,6)

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
R1CYP5F	CYTOCHROME C PEROXIDASE (YEAST)	F. INZEL, POULOS, KRAUT	11/83 SF
R2C2CSF	CYTOCHROME C2 (OXIDIZED)	BHATIA, F. INZEL, KRAUT	11/83 SF
R3C2CSF	CYTOCHROME C2 (REDUCED)	BHATIA, F. INZEL, KRAUT	11/83 SF
R1HH0SF	*HEMOGLOBIN (HUMAN, OXY)	B. SHAANAN	3/84 SF
R1HB0SF	*MYOGLOBIN (SPERM WHALE, OXY)	S. PHILLIPS	3/84 SF

* NEW OR REPLACEMENT ENTRY SINCE JAN-84 NEWSLETTER

CODES
SF STRUCTURE FACTORS

TABLE 8. PROTEIN DATA BANK, BIBLIOGRAPHIC ENTRIES

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
0EAP	ACID PROTEINASE (ENDOTHIA PARASITICA)		
0ADC	ADP-NADH-DIMETHYL SULFOXIDE COMPLEX		
0AF1	AFOPERRITIN (HORSE)		
0MAA	MITOCHONDRIAL ASPARTATE AMINOTRANSFERASE		
0AZA	AZURIN (ALCALIGENES DENITRIFICANS)		
0RNB	BARNASE (BACILLUS AMYLOLIQUEFACIENS)		
0CD1	CALOTROPIN D1 (CALOTROPIS GIGANTEA)		
0DPE	D-ALANYL-CARBOXYPEPTIDASE-TRANSEPTIDASE		
0ZGP	D-ALANYL-D-ALANINE PEPTIDASE (ZNF2+ G PEPTIDASE)		
0CTS	CITRATE SYNTHASE (PIG)		
0CN2	CONCANAVALIN A (DEMETALLIZED)		
0CRO	CRO REPRESSOR		
0OC9	GAMMA-CRYSTALLIN II (CALF)		
0CY3	CYTOCHROME C3 (DESULFOVIBRIO DESULFURICANS NORWAY)		
0SC1	CYTOCHROME C555 (CHLOROBIV THIOSULFATOPHILUM)		
0C3A	DES-ARG77-C3A ANAPHYLATOXIN		
0CDF	DITHYRIFOLATE REDUCTASE (CHICKEN LIVER)		
0ANB	DNA (GGTATACC)		
0ANB	DNA (GG+UA+UACC)		
0ES2	ELASTASE COMPLEX (PIG)		
0ETU	ELONGATION FACTOR TU COMPLEX (E. COLI)		
0EBX	ERABUTOXIN B		
0FX1	FLAVODOXIN (DESULFOVIBRIO VULGARIS)		
0FX2	FLAVODOXIN (REDUCED, CLOSTRIDIUM MP)		
0GBP	D-GALACTOSE-BINDING PROTEIN (ESCHERICHIA COLI)		
0GAP	CATABOLITE GENE ACTIVATOR PROTEIN		
0GPI	GLUTATHIONE PEROXIDASE (BOVINE)		
0GD1	D-GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (BACILLUS STEAROTHERMOPHILUS)		
0HMS	HEMAGGLUTININ		
0DCH	HEMOGLOBIN (COBALT, DEOXY)		
0HBG	HEMOGLOBIN (GLYCERA DIBRANCHIATA)		
0PHH	P-HYDROXYBENZOATE HYDROXYLASE (PSEUDOMONAS FLUORESCENS)		
0AU1	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (KAPPA) AU		
0ROY	IMMUNOGLOBULIN, BENCE-JONES FRAGMENT (V-MONOMER, KAPPA) ROY		
0MCP	IMMUNOGLOBULIN FAB (KAPPA) MCP603		
0IG1	IMMUNOGLOBULIN G1 (KAPPA) DOB		
0INI	INSULIN (PORCINE)		
0IN2	INSULIN (PORCINE)		
0PKA	KALLIKREIN A (PORCINE)		
0KAI	KALLIKREIN A/BOVINE PANCREATIC INHIBITOR		
0LRP	N-TERMINAL DOMAIN OF LAMBDA REPRESSOR		
0GLM	LYSOZYME (EMBDEN GOOSE)		
0LZ1	LYSOZYME (HUMAN)		
0LZ5	LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)		
0LZ1	LYSOZYME (HEN EGG-WHITE, HIGH-TEMPERATURE)		
0LZ6	LYSOZYME (STREPTOMYCES ERYTHRAEUS)		
0TEL	LYSOZYME (TORTOISE EGG-WHITE)		
0CTF	L7/L12 (E. COLI, C-TERMINUS)		
0MBA	MYOGLOBIN (APLYSIA LIMACINA)		
0M8M	MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)		
0M83	MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)		
0PFK	PHOSPHOFRUCTOKINASE (BACILLUS STEAROTHERMOPHILUS)		
0PP2	PHOSPHOLIPASE A2 (RATTLESNAKE)		
0PPA	PHOSPHORYLASE A (RABBIT)		
0PB1	PHOSPHORYLASE B (RABBIT)		
0RX5	RELAXIN (PORCINE, MODEL)		
0RSA	RIBONUCLEASE A (BOVINE)		
0RST	RIBONUCLEASE ST (STREPTOMYCES ERYTHRAEUS)		
0RNT	RIBONUCLEASE T1-2 (PRIME)-GUANYLIC ACID (ASPERGILLUS ORYZAE)		
0SDE	FE-SUPEROXIDE DISMUTASE (ESCHERICHIA COLI)		
0SDE	FE-SUPEROXIDE DISMUTASE (PSEUDOMONAS OVALIS)		
0TTH	THIOREDOXIN REDUCTASE (BACTERIOPHAGE T4)		
0FMT	INITIATOR TRANSFER RNA (E. COLI, F/MET)		
0TA1	TRANSFER RNA (YEAST, ASP, A FORM)		
0TA2	TRANSFER RNA (YEAST, ASP, B FORM)		
0TR1	TRANSFER RNA (YEAST, PHE)		
0MTS	METHIONYL TRANSFER RNA SYNTHETASE		
0YPI	TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)		
0GN5	GENE 5 DNA-UNWINDING PROTEIN (E. COLI)		
0UTG	UTEROGLOBIN (RABBIT)		
0VIR	VIRUS (SATELLITE TOBACCO NECROSIS)		
0TBC	TBACCO MOSAIC		
0TBV	VIRUS (TOMATO BUSHY STUNT)		

* NEW OR REPLACEMENT ENTRY SINCE JAN-84 NEWSLETTER

TABLE 9. COORDINATE AND STRUCTURE FACTOR ENTRIES IN PREPARATION

IDENT CODE	MOLECULE	DEPOSITOR	DATE/ CODE
5ADH	ALCOHOL DEHYDROGENASE (APO) / ADP-RIBOSE	H. EKUND, T. A. JONES	1/84 P
6ADH	ALCOHOL DEHYDROGENASE (HLO) / NADH/DMSO	H. EKUND	1/84 P
7ADH	ALCOHOL DEHYDROGENASE (ISONICOTINIMIDYLATED) B. PLAPP	H. EKUND	1/84 P
1CT5	CITRATE SYNTHASE (PIG)	REMINGTON, WIEGAND, HUBER	1/84 N
2CTS	CITRATE SYNTHASE (PIG, COA, CITRATE CMPLX)	REMINGTON, WIEGAND, HUBER	1/84 N
3CTS	CITRATE SYNTHASE (CHICKEN, COA, CITRATE)	REMINGTON, WIEGAND, HUBER	1/84 N
4CTS	CITRATE SYNTHASE (PIG, OXALOACETATE CMPLX)	REMINGTON, WIEGAND, HUBER	1/84 N
2HHB	*HEMOGLOBIN (HUMAN, DEOXY)	G. FERMI, M. PERUTZ	3/84 P
3HHB	*HEMOGLOBIN (HUMAN, DEOXY, SYMMETRY AVRGD)	G. FERMI, M. PERUTZ	3/84 P
4HHB	*HEMOGLOBIN (HUMAN, DEOXY, UNRESTRAINED)	G. FERMI, M. PERUTZ	3/84 P
1S1C	*SUBTILISIN BPN (PRIME) / SSJ COMPLEX	Y. MITSUI ET AL.	4/84 AN
1TBV	*VIRUS (TOMATO BUSHY STUNT)	S. HARRISON	2/84 N
1STV	*VIRUS (SATELLITE TOBACCO NECROSIS)	T. A. JONES, L. LILJAS	2/84 P
R2HH5F	*HEMOGLOBIN (HUMAN, DEOXY)	G. FERMI, M. PERUTZ	3/84 SF

STATUS CODES

- A ALPHA CARBON ATOMS ONLY
- B BACKBONE ONLY
- N NEW ENTRY AWAITING APPROVAL BY DEPOSITOR
- P IN PREPARATION
- R REPLACEMENT FOR ENTRY IN TABLE 3
- SF STRUCTURE FACTORS

ORDER FORM (Please include a self-addressed label)

1. Name _____ Date _____
Address _____ Telephone _____

2. Documentation desired (no charge).
- Latest Newsletter
 - Introduction to The Protein Data Bank (January 1984)
 - Sources of Visual Aids for Macromolecular Structure (January 1984)
 - Atomic Coordinate Entry Format Description for DATAPRTP and DATAPRFI (October 1983)
 - Current DATAPRTP Directory
 - Non-Standard Entries (Structure Factors) Format Description
 - NONST1TP and NONST1FI (April 1983)
 - NONST2TP and NONST2FI (January 1984)
 - NONST3TP and NONST3FI (April 1984)
 - Data Deposition form

3. Please send the following magnetic tape items (from Table 1). Each 1-tape item costs \$184 (£123 from Cambridge); each 2-tape item costs \$225 (£150). Domestic postage is included.

<u>Item</u>	<u>Number of Tapes</u>	<u>Cost</u>
-------------	------------------------	-------------

Total _____

Special Instructions (to be completed for Brookhaven requests only).
Please check the appropriate box.

- We are especially interested in the pending entries with the following Ident Codes: _____. Please delay shipment until the date _____ if any of these entries are expected to be available by that date.
- Normal order-will be processed as soon as possible.

4. Tape format desired (all tapes are unlabelled)

	Availability	
	US	UK
<input type="checkbox"/> 9 track, 6250 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 1600 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 800 cpi, EBCDIC	yes	yes
<input type="checkbox"/> 9 track, 6250 cpi, ASCII	yes	yes
<input type="checkbox"/> 9 track, 1600 cpi, ASCII	yes	yes
<input type="checkbox"/> 9 track, 800 cpi, ASCII	yes	yes

All tapes are distributed in blocked form with fixed record length and block size. Brookhaven normally uses a block size of 4800 characters. Please indicate here any difficulties this might cause.

5. Please send the following microfiche items (from Table 2). Each microfiche item costs \$122 (£81), postage included. Correction fiche are free.

<u>Item</u>	<u>Cost</u>
	Total _____

6. Please send the following printed listings. Each listing costs \$71, (£47), postage included.

<u>Ident Code</u> (From Table 3)	<u>Cost</u>
	Total _____

7. Foreign air mail postage from Brookhaven to destinations outside the U. S. and Canada or from Cambridge to destinations outside the United Kingdom. A postage surcharge of \$15 (£10) is required per magnetic tape (not per item).

Number of tapes x \$15.00 (£10) = _____

8. Total charges

Magnetic tape charges (3 above) _____

Microfiche charges (5 above) _____

Printed listing charges (6 above) _____

Foreign air mail postage charges (7 above) _____

Total _____

Method of Payment:

Cambridge: Cambridge prefers that no check is sent with order. Inclusion of purchase order is desirable but not mandatory.

Brookhaven: Brookhaven requires that either a check or written purchase order payable to Brookhaven National Laboratory be received before service is provided.

() check
() purchase order number _____

is () enclosed
() sent separately

Please return to

Ms. F. C. Bernstein
Chemistry Department
Brookhaven National Laboratory
Upton, New York 11973 USA

or

Dr. S. Bellard
University Chemical Laboratory
Lensfield Road
Cambridge CB2 1EW, England

It is advisable to send a photocopy of this order form directly to the center filling the order; experience shows that purchasing departments often do not forward this form with the order.