

The current PDB release includes a total of 435 coordinate entries of which 17 are new (see Table 5). Among the newly released entries is 2P21 deposited by S.H.Kim. This entry contains the alpha-carbon coordinates of the catalytic domain of the oncogene protein c-H-ras p21 as reported by de Vos et al. in Science, 239, 888 (1988).

The PDB is initiating a search for two additional staff members: one position is for a biologist or chemist to work on input of newly deposited structures, and the second is for a computer analyst. Applications for these openings, which are described in more detail in the enclosed notice, should be sent to Tom Koetzle before September 15.

Enrique Abola will be attending the meeting on Macromolecules, Genes and Computing to be held August 13-18 at Waterville Valley, NH. Enrique is looking forward to the opportunity to meet PDB contributors and users at the conference.

On-line access to the PDB atomic coordinate and bibliographic entries and program source code (DATAPRTP) currently is available through the five centers listed below:

CAN/SND, Canadian Scientific Numeric Data Base Service, Ottawa

contact Roger Gough, telephone 613-993-3294, e-mail CANSND@NRCVM01

CAOS/CAMM, Dutch National Facility for Computer-Assisted Chemistry, Nijmegen

contact Jan Noordik, telephone 0031-080-613386, e-mail CAOS@HNYKUN52

EMBL, European Molecular Biology Laboratory, Heidelberg, FRG

contact Peter Rice, telephone 0049-6221-387-247, e-mail RICE@EMBL

Pittsburgh Supercomputing Center

contact Hugh Nicholas, telephone 412-268-4960, e-mail NICHOLAS@CPWPSCA

SEQNET, Daresbury Laboratory, Warrington, WA4 4AD, UK

contact User Interface, telephone 0925 603351, e-mail UIG@UK.AC.DARESBU
Group

The established Protein Data Bank centers continue to provide their full range of services. Inquiries may be addressed as shown below. Please note that the order form on pages 7-8 should be used only for Brookhaven orders; users in Japan or Australia should contact their centers for detailed information.

Area	Address of Center	BITNET (BNL Only)	Name	Phone
Worldwide except Australia and Japan	Protein Data Bank	PDB@BNLCHM	Inquiries	516-282-4382
	Chemistry Department	ABOLA@BNLCHM	E. E. Abola	516-282-4383
	Brookhaven National Laboratory	BERNSTEIN@BNLCHM	F. C. Bernstein	516-282-4382
	Upton, NY 11973	KOETZLE@BNLCHM	P. A. Esposito	516-282-4382
USA		WENG@BNLCHM	T. F. Koetzle	516-282-4384
			J. C. Weng	516-282-3629
Australia	CSIRO Division of Biotechnology 343 Royal Parade, Parkville Victoria 3052, Australia		P. Davis	03-342-4326
Japan	Institute for Protein Research Osaka University Yamadaoka, 3-2 Suita, Osaka 565, Japan		Y. Katsube	(06) 877-5111 ext. 3912

Supported by the U. S. National Science Foundation and U. S. National Institutes of Health.

Table with 4 columns: Entry ID, Name, Depositor, Date. Includes entries like RSPFKS, R1PASF, R7RASF, etc.

PART 7 - AVAILABLE ON NONST7TP, NONST7FI

Table with 4 columns: Entry ID, Name, Depositor, Date. Includes entries like R5CVTF, R4GPDF, R3HMF, etc.

* NEW OR REPLACEMENT ENTRY SINCE APR-89 NEWSLETTER

CODES

SF STRUCTURE FACTORS

TABLE 5. PROTEIN DATA BANK, ATOMIC COORDINATE HOLDINGS

12-JUL-89

Table with 5 columns: IDENT CODE, MOLECULE, DEPOSITOR(S), DATE/STATUS. Includes entries like ANTI-HYPERTENSIVE, ANTI-VIRAL, etc.

Main table of protein data bank entries, continuing from 336 to 968. Includes entries like 1BD5, 2BD5, 3CAL, etc.

Main table of protein data bank entries, continuing from 84 to 968. Includes entries like 1FC1, 1FC2, 1PFC, etc.

OAD1 IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (KAPPA) AU
 OROY IMMUNOGLOBULIN, BENGE-JONES FRAGMENT (V-MONOMER, KAPPA) ROY
 OIG1 IMMUNOGLOBULIN G1 (KAPPA) DOB
 OIN4 INSULIN (HUMAN)
 OIN1 INSULIN (PORCINE)
 OIN2 INSULIN (PORCINE)
 OIN3 DESPENTAPEPTIDE INSULIN (BEEF)
 OGLM LYSOZYME (EMDEN COOSE)
 OLZ5 LYSOZYME (HEN EGG-WHITE, NEUTRON STUDY)
 OLZ2 LYSOZYME (HEN EGG-WHITE, DEUTERATED ETHANOL)
 OLZT LYSOZYME (HEN EGG-WHITE, HIGH-TEMPERATURE)
 OLZ6 LYSOZYME (STREPTOMYCES ERYTHRAEUS)
 OTEL LYSOZYME (TORTOISE EGG-WHITE)
 OB2M BETA2-MICROGLOBULIN
 OMBD MITOCHONDRIAL MALATE DEHYDROGENASE (PORCINE)
 OMBM MYOGLOBIN (APLYSIA LIMACINA)
 OMBM MYOGLOBIN (SPERM WHALE, MET, TEMPERATURE STUDIES)
 OMB3 MYOGLOBIN (SPERM WHALE, MET, NEUTRON STUDY)
 OPGL PHOSPHOGLUCOMUTASE (RABBIT)
 OPFA PHOSPHORYLASE A (RABBIT)
 OPB1 PHOSPHORYLASE B (RABBIT)
 OCPC C-PHYCOCYANIN (AGMENELLUM QUADRUPLICATUM)
 OPF1 PROTHROMBIN FRAGMENT 1 (BOVINE)
 ORK5 RELAXIN (PORCINE) MODEL
 ORSA RIBONUCLEASE A (BOVINE)
 ORIA RIBONUCLEASE A (BOVINE) COMPLEX WITH DNA (AAAA)
 ORBS RIBONUCLEASE (BOVINE SEMINAL)
 ORBI RIBONUCLEASE BI (BINASE)
 ORST RIBONUCLEASE ST (STREPTOMYCES ERYTHREUS)
 OSBP SULFATE-BINDING PROTEIN
 OSDE FE-SUPEROXIDE DISMUTASE (ESCHERICHIA COLI)
 OSDP FE-SUPEROXIDE DISMUTASE (PSEUDOMONAS OVALIS)
 OSDM MN-SUPEROXIDE DISMUTASE (THERMUS THERMOPHILUS)
 OTH1 THAUMATIN
 OTLL THERMOLYSIN (BACILLUS THERMOPROTEOLYTICUS) COMPLEX WITH P-LEU-NH2
 OTT4 THIOREDOXIN (BACTERIOPHAGE T4)
 OFMT INITIATOR TRANSFER RNA (E. COLI, F/MET)
 OTR1 TRANSFER RNA (YEAST, PHE)
 OMTS METHIONYL TRANSFER RNA SYNTHETASE
 OTMD TRIMETHYLAMINE DEHYDROGENASE
 OYP1 TRIOSE PHOSPHATE ISOMERASE (SACCHAROMYCES CEREVISIAE)
 OUGC UTEROGLOBIN (RABBIT)
 OAD2 ADENOVIRUS TYPE 2 HEXON (AD2)

OPLV VIRUS (POLIO, HUMAN)
 OTMV VIRUS PROTEIN DISK (TOBACCO MOSAIC)

* NEW OR REPLACEMENT ENTRY SINCE APR-89 NEWSLETTER

TABLE 8. CORRECTIONS TO COORDINATE ENTRIES AND PROGRAMS

 12-JUL-89

CORRECTIONS TO ENTRIES MAY BE OBTAINED IN ONE OF TWO WAYS -

A. ORDER CORR26F1. THERE IS NO CHARGE FOR THIS MICROFICHE WHICH CONTAINS A LISTING OF ALL CORRECTIONS APPLIED IN THE LAST THREE MONTHS.

B. ORDER A NEW COPY OF DATAPRTP.

THE FOLLOWING DATA SETS HAVE HAD CORRECTIONS APPLIED. PLEASE CONSULT A COPY OF THE PROTEIN DATA BANK ATOMIC COORDINATE AND BIBLIOGRAPHIC ENTRY FORMAT DESCRIPTION FOR A FULL DESCRIPTION OF REV DAT RECORDS.

REVDAT	3	12-JUL-89	1DNEB	1	JRNL
REVDAT	2	12-JUL-89	2HVPA	1	REMARK
REVDAT	3	12-JUL-89	1ETUB	1	HET
REVDAT	10	12-JUL-89	3LDHI	3	SCALE
REVDAT	2	12-JUL-89	1BDSA	1	JRNL REMARK
REVDAT	2	12-JUL-89	2BDSA	1	REVDAT REMARK

THE FOLLOWING DATA SETS HAVE BEEN REPLACED

		OLD	NEW
		ENTRY	ENTRY
OBSLTE	19-APR-89	9TNA	3TRA
OBSLTE	12-JUL-89	1ENL	2ENL
OBSLTE	12-JUL-89	1IG2	2IG2
OBSLTE	12-JUL-89	1FB4	2FB4
OBSLTE	12-JUL-89	4CYT	5CYT
OBSLTE	12-JUL-89	2MBN	4MBN
OBSLTE	12-JUL-89	3MBN	5MBN
OBSLTE	12-JUL-89	2GPD	4GPD
OBSLTE	12-JUL-89	4LDH	6LDH

BROOKHAVEN ORDER FORM (Please include a self-addressed label)

1. Name _____ Date _____
 Address _____ Telephone _____
 _____ Electronic Mail _____

2. Documentation desired (no charge).

- Introduction to The Protein Data Bank (April 1988)
- Latest Newsletter
- Atomic Coordinate and Bibliographic Entry Format Description
for DATAPRTP and DATAPRFI (March 1989)
- Current DATAPRTP Directory
- Sources of Visual Aids for Macromolecular Structure (January 1989)
- Non-Standard Entries (Structure Factors) Format Description
- Data Deposition Form

3. Please send the following magnetic tape items (from Table 1).

	6250 cpi	1600 cpi	TK50
DATAPRTP (coordinate tape)			
VAX/VMS BACKUP	<input type="checkbox"/> \$288	<input type="checkbox"/> \$367	<input type="checkbox"/> \$312
VAX/VMS COPY	<input type="checkbox"/> \$288	<input type="checkbox"/> \$367	<input type="checkbox"/> \$312
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$367	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$367	
PDBPGMTP			
VAX/VMS COPY	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	<input type="checkbox"/> \$312
NONST1TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST2TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST3TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST4TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST5TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST6TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
NONST7TP			
Unlabelled ASCII	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	
Unlabelled EBCDIC	<input type="checkbox"/> \$288	<input type="checkbox"/> \$288	

Cost: _____

Special order items (described in Table 1): Please inquire at Brookhaven for availability and price.

YEAR88TP	CONECTTP	DSTNCETP
PART89TP	DGPLOTPP	FISIPLTP
BENDERTP	DIHDRLTP	PHIPSITP

- 4. Foreign air mail postage for tape items listed in 3 above mailed from Brookhaven to destinations outside the U.S. and Canada. A postage surcharge of \$19 is required per item.

Number of items x \$19 = _____

- 5. Please send the following microfiche items (from Table 2). Each microfiche item costs \$310, postage included. Correction fiche are free.

Items: _____ Cost: _____

- 6. Please send the following printed listings. Each listing costs \$82, postage included.

Ident Code(s) (From Table 5): _____ Cost: _____

- 7. Total charges - All prices are expected to be valid through September 30, 1989. After that date please confirm prices.

Magnetic tape charges (3 above) _____
 Foreign air mail postage charges (4 above) _____
 Microfiche charges (5 above) _____
 Printed listing charges (6 above) _____
 Bank charge _____
 No charge for checks drawn in U.S. dollars on
 U.S. bank, otherwise \$10 _____

TOTAL COST : _____

METHOD OF PAYMENT:

Brookhaven **requires** that either a **written purchase order or check payable to**

BROOKHAVEN NATIONAL LABORATORY

be received before service is provided. Order forms and purchase orders may be sent by facsimile to (United States) 516-282-5815. The original order forms and purchase orders should also be sent to Brookhaven by mail.

() check is () enclosed
 () purchase order number _____ () sent separately

Please return ORDER FORM to

BROOKHAVEN NATIONAL LABORATORY
 Chemistry Department - Bldg. 555
 Ms. F. C. Bernstein
 Upton, New York 11973 USA
 (516-282-4382)

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