

## CSIR – INDIAN INSTITUTE OF CHEMICAL BIOLOGY: A SPECIAL LIBRARY SURVEY

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### **ABSTRACT**

*CSIR-IICB is one of the major laboratories in India which initiated, right from its inception, multidisciplinary concerted efforts for conducting basic research on infectious diseases, specifically leishmaniasis and cholera, along with the development of technologies for the diagnosis, immune prophylaxis, and chemotherapy of the diseases. A neurobiology group is involved in research on the development of the vertebrate brain and also the genesis of human movement disorders. Bioactive substances from natural sources and chemically synthesized new molecules are being explored as potential drugs. Other areas being actively pursued are gastric hyperacidity and ulcer, muscular dystrophy and related disorders, macromolecular structure and function analysis, development of targeted drug delivery systems, sperm biology and protein chemistry and enzymology.*

**KEYWORDS:** *CSIR-IICB, Indian Institute of Chemical Biology, Special Library, Survey Report*

### **INTRODUCTION AND HISTORY**

The Institute was established in 1935 as the first non-official Centre in India for biomedical research and was included within the aegis of CSIR in 1956. CSIR-IICB today is engaged in research on diseases of national importance and biological problems of global interest, employing sophisticated state-of-the-art technology in keeping with the rapid and unprecedented momentum that life science research has gained globally over the last 50 years. The scientific staff has expertise in a variety of areas including chemistry, biochemistry, cell biology, molecular biology, neurobiology and immunology which promotes productive interdisciplinary interaction.

The institute has developed an oral vaccine for cholera, herbal products for controlling gastric ulcer, empirical treatment for vitiligo, diagnostic kits for malignancy and hormonal disorders, fungal enzymes of industrial importance, radiopharmaceuticals for evaluation of the functional status of renal and hepato biliary systems and a device for early detection of Parkinson's disease. Although the strength of CSIR-IICB has always been basic biomedical research, during the last decade emphasis is being given on goal-oriented research directed towards commercial exploitability. Efforts are now on to convert the knowledge gained over the years through high-quality basic research into wealth.

CSIR-IICB is one of the major laboratories in India which initiated, right from its inception, multidisciplinary concerted efforts for conducting basic research on infectious diseases, specifically leishmaniasis and cholera, along with the development of technologies for the diagnosis, immune prophylaxis, and chemotherapy of the diseases. A neurobiology group is involved in research on the development of the vertebrate brain and also the genesis of human movement

disorders. Bioactive substances from natural sources and chemically synthesized new molecules are being explored as potential drugs. Other areas being actively pursued are gastric hyperacidity and ulcer, muscular dystrophy and related disorders, macromolecular structure and function analysis, development of targeted drug delivery systems, sperm biology and protein chemistry and enzymology.

### **MAJOR ACHIEVEMENTS IN CSIR-IICB**

The Institute was established in 1935 as the first non-official center to carry out basic biomedical research and was taken over by CSIR in 1956. CSIR-IICB today, by its mandate, is engaged in research on diseases of national importance and certain biological problems of global interest.

CSIR-IICB is putting emphasis on quality basic research, on projects having applied potential and is looking forward to a successful Industry-Institute liaison towards closer partnership.

#### **CSIR-IICB Developing Technologies with High Sciences**

- A Microbicidal Contraceptive to Prevent HIV
- Visceral leishmaniasis detection candidates
- DNA Vaccine against Kala-Azar
- Anti-Asthmatic drug candidates
- Anti-Cancer drug candidates
- Anti-Ulcer drug candidates
- Aflatoxin detection kit
- Immunomodulation
- All detection kit. Etc

#### **CSIR-IICB Industry Partnership Tie-Ups**

- Albert David Ltd., Kolkata
- Angiogen Pharmaceuticals, Australia
- Albert David Ltd., Kolkata
- Biotech Consortium (I) Ltd., New Delhi
- Chatterjee Management Services (P) Ltd., Kolkata
- Coir Board, Kochi
- Chembiotech Research Int. pvt. Ltd., kolkata
- Dey's Medical Stores (Mfg.) Ltd., Kolkata

- DNDI, France
- East India Pharmaceutical Works Ltd., Kolkata
- Merial SAS, Lyn, France
- Mologen AG, Germany
- Piramal Life Sciences Ltd., Mumbai
- Qualpro Diagnostics, Goa
- Santha Biotechnics, Hyderabad
- Zyphyr Biomedical, Goa

Table 1

CSIR-IICB – Publications	
Year	No. of Publications
2007	132
2007	132
2008	136
2009	140
2010	145
2011	165
2012	154
2013	138
2014	161
2015	142
2016	158
2017	162
2018 (January)	24

Table 2

CSIR-IICB Patent – Field		
Year	Abroad	India
2007-2008	6	2
2008-2009	10	2
2009-2010	10	5
2010-2011	5	2
2011-2012	18	5
2012-2013	12	3
2013-2014	13	5
2014-2015	10	2
2015-2016	12	3
2016-2017	12	2
2018 (January)	1	-

Table 3

CSIR-IICB Patent - Field		
Year	Abroad	India
2007-2008	10	2
2008-2009	10	8
2009-2010	16	-
2010-2011	5	2
2011-2012	9	-
2012-2013	11	5
2013-2014	12	3
2014-2015	10	4
2015-2016	11	2
2016-2017	11	3
2018 (January)	1	-

### Recent Activities

A theme of the Symposium a major challenge facing chemical biologists is the ability to effectively identify and manipulates the molecular components of diverse biological systems. The “ISCCB-2013” presents a unique platform to discuss challenges in chemical biology research among international communities. The aim of “ISCCB-2013” is to bring together scientists from across disciplines to explore new approaches and methods in the molecular level understanding of biological systems. This symposium will explore how effectively chemists and biologists are using the tools and philosophy of chemical biology to understand the molecular basis of diseases. Visit: [www.iscb.iicb.res.in](http://www.iscb.iicb.res.in) for more data.



Figure 1

### Update Notification Area

Please like us on **Facebook** to spread the news by visiting:

- <http://www.facebook.com/pages/Indian-Institute-of-Chemical-Biology>
- Alumni/398560930228818

### Description of the Library

The Library & Documentation Division started its Journey as one of the prestigious departments. From the very beginning, this division has marked rapid growth keeping pace with the development of the institute and modernization of library & information science growth in an area, growth in its Collection development, growth in systems facilities and

services. This Library is perhaps, the biggest one on biomedical sciences in the eastern zone of India. It is maintaining the print collection as well as procures electronic versions. Thus it is becoming a hybrid type library.

The librarian post is occupied by **N. C. Ghosh.**; Email: [ncghosh@iicb.res.in](mailto:ncghosh@iicb.res.in)

Head of the Library & Documentation Division

**The Following Sections are Maintained under the Observation of Library & Documentation Center:**

- Processing Section
- Periodical Section
- Binding Section(Bound volumes are kept)
- Computer Section
- Reference Section
- Reprography Section (Reprography facility)
- Printing Section
- Archival Section (DSpace used)

**Library Committee & Staff**

7 staffs are there in the Library and Documentation Division. Among them, 4 Professionals and 3 non-professional staffs are included.

**Table 4**

Dr. S. Adhya, Sct.	Chairman	<a href="mailto:sadhya@iicb.res.in">sadhya@iicb.res.in</a>
Dr. Nahid Ali, Sct.	Member	<a href="mailto:nali@iicb.res.in">nali@iicb.res.in</a>
Dr. Partha Chattopadhyay, Sct.	Member	<a href="mailto:partha@iicb.res.in">partha@iicb.res.in</a>
Dr. T. K. Dhar, Sct.	Member	<a href="mailto:tkdhar@iicb.res.in">tkdhar@iicb.res.in</a>
Dr. N. C. Ghosh	Librarian (Head)	<a href="mailto:ncghosh@iicb.res.in">ncghosh@iicb.res.in</a>

**Table 5**

Mrs. Purnima Chatterjee	T.O.III(4)
Shri Swapan Kumar Naskar	Tech.II(3)
Mrs. Sutapa Ganguly	Tech.II(3)
Shri Madan Haldar	Gr.I(3)
Shri Shymal Nath	Gr.I(1)
Shri Asoke Ram	Gr.C (NT)(ACP)

**Library Collection and Resources**

The library does not have only books (texts & references); it also has a very good collection of journals, technical reports, thesis, reprints & CD-ROM Databases. Books, journals and other materials are subscribed based on the demand of Scholars, students, and Professors. Total collections are listed below:

Table 6

Collections up to 31.01.2018	
Books (including Hindi)	15,357
Journals (print + online) including Indian titles	258
Bound volumes	35,702
ADONIS (CD-ROM Database)	743 journals covered full text (1991 - 2002)
Annual Reports	4,989
Thesis (CDs) / online	226

Table 7: Current Journals (Journal Database)

Sl. No	Title(s)	Publisher	Status
1	American Journal of Human Genetics	The American Society of Human Genetics	On-line
2	Antioxidants & Redox Signaling	Mary Ann Liebert	On-line
3	Annals of Library and Information Studies	NISCAIR, CSIR	Print
4	Antimicrobial Agents and Chemotherapy	ASM	On-line
5	Applied & Environmental Microbiology	ASM	On-line
6	BBRC	Elsevier	On-line
7	Biochemical Journal	BS	On-line
8	Biochemistry	ACS	On-line
9	Bioinformatics	OUP, UK	Print (NKRC)
10	Biophysical Journal	The Biophysical Society	On-line
11	Blood	American Society of Hematology	On-line
12	British Journal of Cancer	Nature Publishing Group	On-line
13	Bulletin of Material Sciences	Indian Academy of Sciences	Print
14	Cancer Cell	Cell Press	On-line
15	Cancer Letters	Elsevier	On-line
16	Cancer Research	American Association for Cancer Research	On-line
17	Cell	Cell Press	Print + Online
18	Cell Death and Differentiation	Nature Publishing Group	On-line
19	Cell Host & Microbe	Cell Press	On-line
20	Cell Metabolism	Cell Press	On-line
21	Cell Stem Cell	Cell Press	On-line
22	Clinical Cancer Research	American Association for Cancer Research	On-line
23	Clinical Infectious Diseases	Oxford University Press	On-line
24	Clinical and Vaccine Immunology	ASM	On-line
25	Clinical Microbiology Reviews	ASM	On-line
26	Conservation & Society	ATREE	Print
27	Current Biology	Cell Press	On-line
28	Current Science	Indian Academy of Sciences	Print
29	Developmental Cell	Cell Press	On-line
30	Diabetes	ADA	Print
31	DNA & Cell Biology	Mary Ann Liebert, Inc., USA	On-line
32	EMBO Journal	Nature Publishing Group	On-line
33	EMBO Reports	Nature Publishing Group	On-line
34	Endocrinology	The Endocrine Society	On-line
35	Eukaryotic Cells	ASM	On-line
36	Everyman's Science	Everyman's Science	Print

37	FASEB Journal	FASEB	On-line
38	FEBS Letters	Elsevier	On-line
39	Genes and Development	CSHL Press	Print + Online
40	Glycobiology	OUP, UK	Print + Online)
41	ILA Bulletin	ILA	Print
42	Immunity	Cell Press	On-line
43	Indian Drugs	IDMA	Print
44	Indian Jl. of Physiology & Pharmacology	APPI	Print
45	Indian Journal of Biochemistry & Biophysics	NISCAIR, CSIR	Print
46	Indian Journal of Biotechnology	NISCAIR, CSIR	Print
47	Indian Journal of Chemical Technology	NISCAIR, CSIR	Print
48	Indian Journal of Chemistry : Sec A	NISCAIR, CSIR	Print
49	Indian Journal of Chemistry : Sec B	NISCAIR, CSIR	Print
50	Indian Journal of Experimental Biology	NISCAIR, CSIR	Print
51	Indian Journal of Marine Science	NISCAIR, CSIR	Print
52	Indian Journal of Medical Research	ICMR	Print
53	Indian Journal of Nuclear Medicine	SNM	Print
54	Indian Journal of Pharmacology	Indian Pharmacological Society	Print
55	Indian Journal of Traditional Knowledge	NISCAIR, CSIR	Print
56	Indian Science Cruiser	Journal Subscription Services & Management	Print
57	Infection and Immunity	ASM	On-line
58	Indian Journal of Medical Sciences	Medknow Pub	Print
59	Journal of Astrophysics & Astronomy	Indian Academy of Sciences	Print
60	Journal of Bacteriology	ASM	On-line
61	Journal of Biological Chemistry	ASB&MB	On-line
62	Journal of Biosciences	Indian Academy of Sciences	Print
63	Journal of Cell Biology	Rockefeller University Press	Print + Online
64	Journal of Clinical Microbiology	ASM	On-line
65	Journal of Experimental Medicine	Rockefeller University Press	On-line
66	Journal of Genetics	Indian Academy of Sciences	Print
67	Journal of Immunology	The American Association of Immunologists	On-line
68	Journal of Infectious Diseases	Oxford University Press	On-line
69	Journal of Molecular Biology	Elsevier	On-line
70	Journal of Neurochemistry	Blackwell	Print + (On-line NKRC)
71	Journal of Nuclear Medicine	Society of Nuclear Medicine, Inc.USA	On-line
72	Journal of Parasitic Diseases	Indian Society of Parasitology	Print
73	Journal of Scientific & Industrial Research	NISCAIR	Print
74	Journal of Virology	ASM	On-line
75	Journal of Organic Chemistry	ACS	On-line
76	Journal of Intellectual Property Rights	NISCAIR	Print
77	Journal of American Chemical Society	ACS	On-line
78	Library Herald	SCIENTIFIC PUBLISHER	Print
79	Medicinal & Aromatic Plants Abstracts	NISCAIR	Print

80	Microbiology & Molecular Biology Reviews	ASM	On-line
81	Molecular & Cellular Biology	ASM	On-line
82	Molecular Cell	Cell Press	On-line
83	Molecular Cancer Therapeutics	AAACR	On-line
84	Natural Products Radiance	NISCAIR	Print
85	Nature	Nature Publishing Group	Print + Online
86	Nature Biotechnology	Nature Publishing Group	On-line
87	Nature Cell Biology	Nature Publishing Group	On-line
88	Nature Chemical Biology	Nature Publishing Group	On-line
89	Nature Chemistry	Nature Publishing Group	On-line
90	Nature Genetics	Nature Publishing Group	On-line
91	Nature Immunology	Nature Publishing Group	On-line
92	Nature Medicine	Nature Publishing Group	On-line
93	Nature Methods	Nature Publishing Group	On-line
94	Nature Neuroscience	Nature Publishing Group	On-line
95	Nature Protocols	Nature Publishing Group	On-line
96	Nature Reviews Cancer	Nature Publishing Group	On-line
97	Nature Reviews Drug Discovery	Nature Publishing Group	On-line
98	Nature Reviews Genetics	Nature Publishing Group	On-line
99	Nature Reviews Immunology	Nature Publishing Group	On-line
100	Nature Reviews Microbiology	Nature Publishing Group	On-line
101	Nature Reviews Molecular Cell Biology	Nature Publishing Group	On-line
102	Nature Reviews Neuroscience	Nature Publishing Group	On-line
103	Nature Structure & Molecular Biology	Nature Publishing Group	On-line
104	Neuron	Cell Press	On-line
105	New England Journal of Medicine	MMS, USA	On-line
106	Nucleic Acids Research	OUP, UK	Print + (On-line NKRC)
107	Oncogene	Nature Publishing Group	On-line
108	Oncogene Reviews	Nature Publishing Group	On-line
109	PNAS, USA	National Academy of Sciences, USA	On-line
110	Prmana : Journal of Physics	Indian Academy of Sciences	Print
111	Proc : Chemical Sciences	Indian Academy of Sciences	Print
112	Proc : Earth & Planetary Sciences	Indian Academy of Sciences	Print
113	Proc : Mathematical Sciences	Indian Academy of Sciences	Print
114	Resonance : Journal of Science Education	Indian Academy of Science	Print
115	RNA	Cold Spring Harbor Publications	Print + On-line
116	Sadhana	IAS	Print
117	Science	American Association for Advancement of Science	Print + (On-line NKRC)
118	Scientific American	Nature Publishing Group	On-line
119	Structure	Cell Press	On-line
120	Synthesis	Thieme	Print + On-line
121	WHO GLOBAL	Global Publishers	Print

**CSIR E-Journals Consortium:** Is a CSIR network project under the Tenth Five Year Plan, being implemented by National Institute of Science Communication and Information Resources (NISCAIR), New Delhi. It aims at providing access to 4500 world-class e-journals to the CSIR personnel through pooling and sharing of resources.

- <http://124.124.221.7/ejournal/ejournalhome1.htm>
- [Online Public Access Catalogue \(OPAC\)](#)

### Back Journals (On Line)

Table 8

Sl. No.	Name of the Journal	Up to Date Holdings
1	Acta Tropica	1989-1994
2	Advances in Biophysics	1982-1994
3	Advances in Enzyme Regulation	1963-1994
4	Advances in Free Radical Biology & Medicine	1985-1986
5	Advances in Neuroimmunology	1991-1994
6	Analytical Biochemistry	1960-1994
7	Annales de l'Institut Pasteur / Immunologie	1981-1988
8	Annales de l'Institut Pasteur / Microbiologie	1983-1988
9	Annales de l'Institut Pasteur / Virologie	1980-1988
10	Antimicrobial Newsletter	1984-1992
11	Antimicrobics and Infectious Diseases Newsletter	1994
12	Antiviral Research	1981-1994
13	Archives of Biochemistry and Biophysics	1951-1994
14	Archives of Gerontology and Geriatrics	1982-1994
15	Biochimica et Biophysica Acta (BBA) - Enzymology	1967-1981
16	Biochimica et Biophysica Acta (BBA) - Enzymology and Biological Oxidation	1965-1966
17	Biochimica et Biophysica Acta (BBA) - Gene Structure and Expression	1982-1994
18	Biochimica et Biophysica Acta (BBA) - General Subjects	1964-1994
19	Biochimica et Biophysica Acta (BBA) - Lipids and Lipid Metabolism	1965-1994
20	Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease	1990-1994
21	Biochimica et Biophysica Acta (BBA) - Molecular Cell Research	1982-1994
22	Biochimica et Biophysica Acta (BBA) - Mucoproteins and Mucopolysaccharides	1965
23	Biochimica et Biophysica Acta (BBA) - Nucleic Acids and Protein Synthesis	1965-1981
24	Biochimica et Biophysica Acta (BBA) - Protein Structure	1967-1981
25	Biochimica et Biophysica Acta (BBA) - Protein Structure and Molecular Enzymology	1982-1994
26	Biochimica et Biophysica Acta (BBA) - Reviews on Bioenergetics	1973-1987
27	Biochimica et Biophysica Acta (BBA) - Reviews on Biomembranes	1972-1994
28	Biochimica et Biophysica Acta (BBA) - Reviews on Cancer	1974-1994
29	Biochimica et Biophysica Acta (BBA) - Specialized Section on Biophysical Subjects	1964
30	Biochimica et Biophysica Acta (BBA) - Specialized Section on Enzymological Subjects	1963-1964
31	Biochimica et Biophysica Acta (BBA) - Specialized Section on Lipids and Related Subjects	1963-1964
32	Biochimica et Biophysica Acta (BBA) - Specialized Section on Mucoproteins and Mucopolysaccharides	1964
33	Biochimica et Biophysica Acta (BBA) - Specialized Section on Nucleic Acids and Related Subjects	1962-1964
34	Biochimie	1971-1994
35	Bioelectrochemistry and Bioenergetics	1974-1994
36	Bioinorganic Chemistry	1971-1978

Table 8: Contd.,		
37	Biologicals	1990-1994
38	Biology of the Cell	1988-1994
39	Bioorganic Chemistry	1971-1994
40	Bioorganic Chemistry	1971-1994
41	Biophysical Chemistry	1973-1994
42	Biosensors	1985-1989
43	Biosensors and Bioelectronics	1990-1994
44	Biotechnology Advances	1983-1994
45	Biotechnology Advances	1983-1994
46	Brain, Behavior, and Immunity	1987-1994
47	Cell	1989-1994
48	Cell Differentiation and Development	1988-1990
49	Cellular Immunology	1970-1994
50	Cellular Immunology	1970-1994
51	Cellular Signalling	1989-1994
52	Chemistry & Biology	1959-1994
53	Chemistry and Physics of Lipids	1966-1994
54	Clinica Chimica Acta	1956-1994
55	Clinical and Diagnostic Virology	1993-1994
56	Clinical Biochemistry	1967-1994
57	Clinical Immunology and Immunopathology	1972-1994
58	Clinical Immunology Newsletter	1981-1994
59	Clinical Microbiology Newsletter	1979-1994
60	Comparative Biochemistry and Physiology	1960-1970
61	Comparative Biochemistry and Physiology Part A: Physiology	1971-1994
62	Comparative Biochemistry and Physiology Part B: Comparative Biochemistry	1971-1994
63	Comparative Biochemistry and Physiology Part C: Pharmacology, Toxicology and Endocrinology	1993-1994
64	Comparative Immunology, Microbiology and Infectious Diseases	1978-1994
65	Current Biology	1984-1994
66	Current Opinion in Biotechnology	1990-1994
67	Current Opinion in Cell Biology	1989-1994
68	Current Opinion in Genetics & Development	1991-1994
69	Current Opinion in Immunology	1988-1994
70	Current Opinion in Structural Biology	1991-1994
71	Cytokine	1989-1994
72	Developmental & Comparative Immunology	1977-1994
73	Diagnostic Microbiology and Infectious Disease	1983-1994
74	Enzyme and Microbial Technology	1979-1994
75	Enzyme and Microbial Technology	1979-1994
76	Experimental and Molecular Pathology	1962-1992
77	Experimental Cell Research	1950-1994
78	Experimental Gerontology	1964-1994
79	Experimental Mycology	1977-1994
80	Experimental Mycology	1977-1994
81	Experimental Parasitology	1951-1994
82	Food Microbiology	1984-1994
83	Free Radical Biology and Medicine	1987-1994
84	Frontiers in Neuroendocrinology	1993-1994
86	Gene	1976-1994
87	Gene Analysis Techniques	1984-1990
88	Gene Analysis Techniques	1984-1990

Table 8: Contd.,		
89	General and Comparative Endocrinology	1961-1994
90	Genetic Analysis: Biomolecular Engineering	1991-1994
91	Genetic Analysis: Biomolecular Engineering	1991-1994
92	Genomics	1987-1994
93	Hormones and Behavior	1969-1994
94	Human Immunology	1980-1994
95	Immunity	1994
96	Immunochemistry	1964-1978
97	Immunology Letters	1979-1994
98	Immunology Today	1980-1994
99	ImmunoMethods	1992-1994
100	Immunopharmacology	1978-1994
101	Infectious Diseases Newsletter	1981-1993
102	Insect Biochemistry	1971-1991
103	Insect Biochemistry and Molecular Biology	1992-1994
104	International Biodeterioration	1987-1991
105	International Biodeterioration & Biodegradation	1992-1994
106	International Journal for Parasitology	1971-1994
107	International Journal of Antimicrobial Agents	1991-1994
108	International Journal of Biochemistry	1970-1994
109	International Journal of Biological Macromolecules	1979-1994
110	International Journal of Food Microbiology	1984-1994
111	International Journal of Immunopharmacology	1979-1994
112	Journal of Autoimmunity	1988-1994
113	Journal of Biochemical and Biophysical Methods	1979-1994
114	Journal of Biological Standardization	1973-1989
115	Journal of Biotechnology	1984-1994
116	Journal of Biotechnology	1984-1994
117	Journal of Chromatography B: Biomedical Sciences and Applications	1977-1994
118	Journal of Fermentation and Bioengineering	1989-1994
119	Journal of Fermentation Technology	1986-1988
120	Journal of Free Radicals in Biology & Medicine	1985-1986
121	Journal of Immunological Methods	1971-1994
122	Journal of Inorganic Biochemistry	1979-1994
123	Journal of Magnetic Resonance (1969)	1969-1992
124	Journal of Magnetic Resonance, Series A	1993-1994
125	Journal of Magnetic Resonance, Series B	1993-1994
126	Journal of Microbiological Methods	1983-1994
127	Journal of Molecular and Cellular Cardiology	1970-1994
128	Journal of Molecular Biology	1966-1994
129	Journal of Molecular Biology	1966-1994
130	Journal of Neuroimmunology	1981-1994
131	Journal of Photochemistry and Photobiology B: Biology	1987-1994
132	Journal of Physiology-Paris	1992-1994
133	Journal of Reproductive Immunology	1979-1994
134	Journal of Steroid Biochemistry	1969-1990
135	Journal of Structural Biology	1990-1994
136	Journal of Thermal Biology	1975-1994
137	Journal of Ultrastructure and Molecular Structure Research	1986-1989
138	Journal of Ultrastructure Research	1957-1985
139	Journal of Virological Methods	1980-1994
140	Life Sciences	1962-1994
141	Matrix Biology	1994

Table 8: Contd.,		
142	Mechanisms of Ageing and Development	1972-1994
143	Mechanisms of Development	1990-1994
144	Methods	1990-1994
145	Methods	1990-1994
146	Microbial Pathogenesis	1986-1994
147	Microvascular Research	1968-1994
148	Molecular and Biochemical Parasitology	1980-1994
149	Molecular and Biochemical Parasitology	1980-1994
150	Molecular and Cellular Endocrinology	1974-1994
151	Molecular and Cellular Neuroscience	1990-1994
152	Molecular and Cellular Probes	1987-1994
153	Molecular Aspects of Medicine	1976-1994
154	Molecular Immunology	1979-1994
155	Molecular Phylogenetics and Evolution	1992-1994
156	Mutation Research Letters	1973-1994
157	Mutation Research/DNA Repair	1989-1994
158	Mutation Research/DNA Repair Reports	1983-1988
159	Mutation Research/DNAging	1989-1994
160	<a href="http://www.sciencedirect.com/science/journal/13835718">http://www.sciencedirect.com/science/journal/13835718</a>	1973-1994
161	Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis	1964-1994
162	Mutation Research/Genetic Toxicology	1976-1994
163	Neuron	1988-1994
164	Peptides	1980-1994
165	Pesticide Biochemistry and Physiology	1971-1994
166	Pharmacology Biochemistry and Behavior	1973-1994
167	Phytochemistry	1961-1994
168	Plant Science	1985-1994
169	Plant Science Letters	1973-1985
170	Plasmid	1977-1994
171	Process Biochemistry	1991-1994
172	Process Biochemistry	1991-1994
173	Progress in Biophysics and Molecular Biology	1963-1994
174	Progress in Lipid Research	1978-1994
175	Progress in the Chemistry of Fats and other Lipids	1952-1978
176	Prostaglandins	1972-1994
177	Protein Expression and Purification	1990-1994
178	Regulatory Peptides	1980-1994
179	Research in Immunology	1989-1994
180	Research in Microbiology	1989-1994
181	Research in Virology	1989-1994
182	Respiration Physiology	1966-1994
183	Seminars in Cell Biology	1992-1994
184	Seminars in Immunology	1993-1994
185	Soil Biology and Biochemistry	1969-1994
186	Soil Biology and Biochemistry	1969-1994
187	Steroids	1963-1994
188	Structure	1993-1994
189	The Journal of Steroid Biochemistry and Molecular Biology	1990-1994
190	Tissue and Cell	1969-1994
191	Transplant Immunology	1993-1994
192	Trends in Biochemical Sciences	1976-1994
193	Trends in Biotechnology	1983-1994

194	Trends in Cell Biology	1991-1994
195	Trends in Genetics	1985-1994
196	Trends in Microbiology	1993-1994
197	Vaccine	1983-1994
198	Veterinary Immunology and Immunopathology	1979-1994
199	Veterinary Microbiology	1976-1994
200	Veterinary Parasitology	1975-1994
201	Virology	1955-1994
202	Virus Research	1984-1994

## ADONIS

In the early Eighties, scientific publishers considered technical approaches to finding methods allowing for the 'controlled' copying of STM journal articles. The idea of using optical data carriers to deliver an electro copying (CD-ROM based document delivery service) system was not economically feasible until the emergence of CD-ROM technology along with low-cost personal computers. The concept was further studied by a consortium of about 10 publishers. A library has a complete collection of ADONIS- of the following journals from 1991 to 2002. There are near about 750 Journals with the year, volume, issue and also up to date holdings details.

## Open Access Repository

IICB is one of the 39 laboratories of Council of Scientific and Industrial Research (CSIR) - India's largest Research and Development organization.

This repository is the official open access institutional repository of IICB. This provides single point access to all research outputs produced locally. Research documents, which include peer-reviewed journal articles, conference papers, theses and reports, produced by IICB researchers are archived here. We try to populate the repository with post-print versions of peer-reviewed journal articles, as many publishers now allow authors to post the same in institutional repositories legitimately. In some cases, where the post-print versions are not available, the published version is archived with direct access restricted to IICB researchers. Other can use "Request copy" form to request copies of articles directly to authors.

Interested users are requested to download/request copies of articles to use and build upon with proper acknowledgment.



Figure 2

## POLICIES

### Metadata Policy

For information describing items in the repository

- Access to some or all of the metadata is controlled.
- The metadata may be re-used in any medium without prior permission for not-for-profit purposes provided:
- the OAI Identifier or a link to the original metadata record are given
- EPrints@IICB is mentioned

### Data Policy

For full-text and other full data items

- Anyone may access full items free of charge.
- Copies of full items generally can be:
- Displayed or performed
- For personal research or study, educational, or not-for-profit purposes without prior permission or charge.
- Provided:
- The authors, title and full bibliographic details are given
- A hyperlink and/or URL are given for the original metadata page
- Full items must not be sold commercially in any format or medium without formal permission of the copyright holders.
- This repository is **not** the publisher; it is merely the online archive.
- Mention of EPrints@IICB is appreciated but not mandatory.



Figure 3

### Content Policy

For types of document & data set held

- This is an institutional or departmental repository.
- EPrints@IICB holds all types of materials.
- Deposited items may include:
  - submitted versions (as sent to journals for peer-review)
  - accepted versions (author's final peer-reviewed drafts)
  - published versions (publisher-created files)
- Items are individually tagged with:
  - Their version type and date.
  - Their peer-review status.
  - Their publication status.
- Principal Languages: English



Figure 4

**Submission Policy**

Concerning depositors, quality & copyright

- Items may only be deposited by accredited members, academic staff, registered students, and employees of the institution, or their delegated agents.
- Authors may only submit their own work for archiving.
- The administrator only vets' items for the eligibility of authors/depositors, relevance to the scope of EPrints@IICB, and the exclusion of spam
- The validity and authenticity of the content of submissions is the sole responsibility of the depositor.
- Items can be deposited at any time, but will not be made publicly visible until any publishers' or funders' embargo period has expired.
- If EPrints@IICB receives proof of copyright violation, the relevant item will be removed immediately.

**Preservation Policy**

- Items will be retained indefinitely.
- EPrints@IICB will try to ensure continued readability and accessibility.
- EPrints@IICB regularly backs up its files according to current best practice.
- Items may be removed at the request of the author/copyright holder, but this is strongly discouraged.
- Acceptable reasons for withdrawal include:
  - Journal publishers' rules
  - Proven copyright violation or plagiarism
  - Legal requirements and proven violations
  - National Security
  - Falsified research
- No deletion method for withdrawn items defined.
- Errata and corrigenda lists may be included with the original record if required.
- If necessary, an updated version may be deposited.
- The earlier version may be withdrawn from public view.
- The item's persistent URL will always link to the latest version.
- There will be links between earlier and later versions, with the most recent version clearly identified.

- Items are allocated a checksum to facilitate the detection of alterations.
- No closure policy defined.

### Processing Section

All documents in the library are classified and catalogue by the staff of the processing section. The documents are classified according to UDC scheme and they follow AACR 2R code through LibSys 4.0 software.

### Special Features

- It has only science collection
- It charges no fine from the user only provides reminder through Email. In case the book is not returned in time.
- There is an internet facility.
- Printed catalogue is transformed into E-form.
- It provides resource sharing.
- There is an internet facility.

### Circulation Section & Reading Room

The circulation section is opened from 9.30 am to 6 pm whereas the reading room service is provided from 9.30 am to 8.30 pm.

### Library Services

In present days, a library cannot be considered as a mere storehouse of books. Rather, it plays the role of an Information Center. And the Library & Documentation Division of Indian Institute of Chemical Biology is also not an exception. With this aim in view, the library extends the following information and technical services & facilities to the users irrespective of this Institute and various outside Educational, Research, and Industrial Organizations

**Table 9**

01	Reading-Room facility
02	Literature Search
03	Information Services through CD-ROM and online databases
04	Printouts from CD-ROM databases and online Journals
05	Lending facility
06	Reference and Referral Services
07	Photocopying Services
08	Resources sharing and so on
09	Audio Visual CD-ROM Services
10	OPAC and Web OPAC

### Library Rules

- If documents are damaged by the borrower, then the borrower must have to pay recovery money.
- Do not use a cell phone inside the library premises.
- Follow all the rules and regulations.
- Documents must be properly handled, kept in good condition.
- Clearance certificate provided when the library is satisfied that all charges have been paid and documents, etc. returned.
- Maintain silent in the library

### NIPER

National Institute of Pharmaceutical Education and Research (NIPER) is going to be created under the aegis of Ministry of Chemical & Fertilizer at Kolkata as a center of excellence for higher education research and development in pharmaceutical sciences. The institute has been declared as an institute of National Importance by Government of India through an act of parliament.

For the time being the new institute will be housed at IICB a premier institute of the CSIR in India. It was established in 1935. It is the first non-official center in India. For Biomedical Research and was included within the aegis of CSIR in 1956. It is engaged in research on diseases of national importance and Biological problems of global interest.

### The Major Objectives of NIPER, Kolkata are

- To tone up the level of pharmaceutical education and research.
- To be a center for innovation in Pharmaceutical Science and Technology.
- To provide leaders in the field & provide opportunities for training of future teachers & research scientist for the industry and the profession.
- To encourage research and studies in new and emerging areas.
- To provide scientific footing to traditional medicines.

### CONCLUSIONS

Through the investigation, I have been concluding that IICB-CSIR, Kolkata a special science collection library with special references of the biochemical topic. It is a central government organization and a small user base. Though all are welcome without any fee; a large no of computers link in the network helps the user to access online databases and web OPAC. Well behave and experienced with Library and Information Science profession background librarian and staff are always in their helping hand to the users. The library collects the renowned publishers' journals through consortia.

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