

IDENTIFICATION OF CORE JOURNALS IN SCIENCE AND TECHNOLOGY : A STUDY BASED ON INSDOC'S DOCUMENT DELIVERY DEMAND : PART III – LIFE SCIENCES

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A study was undertaken to find out high demand core journals in life sciences through the analysis of document requests received by Insdoc during 1980-85. It was found that 155 identified core journals in the life sciences could satisfy a majority of document demands in this field. The first 50 journals from core list could satisfy as much as 51.85% of demand. The core list also compared favourably with the rank lists of British Library Document Supply Centre and Science Citation Index (JCR 1984) as well.

INTRODUCTION

Life sciences comprising general biology, zoology and medical sciences form a very major area of research activity in India. Apart from 2 big research complexes like Indian Council of Agricultural Research & Indian Council of Medical Research, there are 26 agricultural universities, 42 institutions under the Council of Scientific & Industrial Research, scores of agricultural & medical colleges, several institutions of higher learning in the field of medicine like the All India Institute of Medical Sciences, hundreds of departments in universities devoted to these disciplines, some international institutions like ICRISAT etc. are engaged in research. As a result demand received by INSDOC for document supply from life sciences journals are highest compared to in other fields. The speed of supply of such documents is directly related to their ready availability. Hence, this study was undertaken and it deals with journals in life sciences alone, the 4th part will deal separately with plant sciences.

The requests received at Insdoc for document supply through the years 1980-85 were analysed and a core list of journals in the field of life sciences was identified.

The objectives of the present study are -

to compile a ranked list of journals in life sciences

- to identify the availability of these journals in National Science Library (NSL)
- to find the status of Indian journals in the ranked list
- to find the availability of these journals in the libraries of six metropolitan cities of India - viz. Delhi, Calcutta, Madras, Bangalore, Hyderabad and Bombay
- To identify the country of origin of these journals

The analysis was started by preparing individual ranked lists of journals in life sciences for the year 1980-85. The lists were then consolidated and a ranked list was prepared with a cut-off point at 44 requests.

RESULTS

- a) 155 journals in life sciences were identified (Table 1).
- b) 23 Indian journals were identified in the ranked list and NSL is receiving 19 of them (Table 2).
- c) The National Science Library receives 32 out of these 155 journals (Table 3). 23 Indian journals were identified in the ranked list their position being 7, 10, 12, 16, 28, 55, 57, 62, 69, 78, 92, 95, 98, 116, 118, 119, 137, 143, 144, 146, 153 respectively according to the demands received for them. These positions, however, does not reflect the actual demand for these journals as many libraries in India receive them.
- d) Availability of these journals were found out from the National Union Catalogue of the Current Scientific Serials print-out. The highest concentration of journals in life sciences was found in Calcutta (27.30%) followed by Delhi (21.99%); Bombay

(18.01%); Madras (12.60%); Hyderabad (11.31%) and Bangalore (8.78%) - (Table 4).

Insdoc and Shri B.K. Sen, Coordinator, Bibliometrics Group, Insdoc for providing encouragement in taking up the analysis.

- e) The ranked list was compared with that of the Science Citation Index (SCI) from the Journal Citation Reports (1984). It was found that most of the top 50 journals in the rank list had high impact factor. Six Indian journals were not covered by SCI (Table 5). It was also found that the top 50 journals could satisfy 51.85% of the total requests received by the 155 journals in the ranked list.
- f) The country of origin of these 155 journals were identified (Table 6). USA was found to top the list followed by UK. India occupies the third position in the rank.

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CONCLUSION

The National Science Library holds 31 (20%) journals in life sciences from the present ranked list. For providing better and prompt service the holdings of the library should be further augmented.

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Table I : Ranked List of Journals in Life Sciences

S.No.	Journal Title	Country of Origin	Year					Total
			80	81-82	83	84	85	
1	Lancet	UK	50	85	40	46	30	251
2	J biol Chem	USA	46	80	32	49	35	242
3	Comp Biochem Physiol	USA	47	45	40	34	51	217
4	J econ Ent	USA	45	88	28	26	20	207
5	Ann ent Soc Am	USA	31	78	26	34	20	189
6	J Am med Ass (JAMA)	USA	33	50	28	40	30	181
7	Indian J Ent	India	54	48	30	20	24	176
8	J Insect Physiol	UK	30	58	20	48	20	176
9	Biochem J	UK	34	50	32	31	21	168
10	J Bombay nat Hist Soc	India	35	60	15	28	26	164
11	Gen comp Endocr	USA	27	58	29	20	22	156
12	Indian J expl Biol	India	25	58	22	21	24	150
13	Hydrobiologia	Netherlands	34	48	28	25	24	149
14	J Morph	USA	45	50	20	18	12	145
15	Proc R ent Soc Lond	UK	30	78	27	--	4	139
16	Indian J med Res	India	20	48	19	26	19	132
17	New Engl J Med	UK	31	42	23	25	10	131
18	Br med J	UK	33	30	20	30	18	128
19	Proc Soc expl Biol Med	USA	31	50	20	22	5	128
20	Ecology	USA	15	44	17	20	28	124
21	J Fish Res Bd Can (Can J Fish aquatic Sci)	Canada	21	28	20	30	25	124
22	Experientia	Switzerland	23	35	21	21	19	119
23	Phytopathology	USA	19	48	20	19	10	116
24	Chromosoma	Germany	19	27	25	24	20	115
25	J Bone Jt Surgery	USA	14	47	20	18	12	111
26	Can J Zool	Canada	28	37	12	18	10	105
27	Anat Rec	USA	23	38	16	14	12	103
28	Rec Indian Mus (Rep zool Surv India)	India	25	40	15	10	12	102
29	Analyt Biochem	USA	5	42	10	28	15	100
30	Biol Bull	USA	16	33	13	23	14	99
31	Q J microscopical Sci	UK	20	37	15	14	12	98
32	Can Ent	Canada	23	35	12	16	10	96
33	Bull envir Contamination Toxicology	USA	18	16	13	17	30	94
34	Z Zellforschung mikroskopische Anatomie (Cell Tissue Res)	Germany	30	40	10	9	5	94
35	Indian J Fish	India	13	24	17	18	21	93
36	Endocrinology	USA	25	22	15	20	16	92
37	J expl Biol	UK	18	35	14	20	15	92
38	Am J Obstet Gynaec	USA	9	36	18	13	10	86
39	J Pharmac expl Therapeutics	USA	19	22	14	19	10	84
40	Ann Mag nat Hist	UK	20	34	15	7	5	81
41	Clin Chem	USA	14	33	10	11	13	81
42	Acta Anatomica	Switzerland	--	36	14	15	14	79
43	Proc zool Soc Lond	UK	21	32	16	6	4	79
44	J Anim Ecol	UK	16	25	10	11	15	77
45	J clin Invest	USA	6	32	15	10	12	76
46	J Reproduction Fert	UK	13	32	11	12	3	75

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S.No.	Journal Title	Country of Origin	Year					Total
			80	81-82	83	84	85	
47	J Fish Biol	UK	15	25	12	14	9	75
48	J Parasitol	USA	15	32	13	10	5	75
49	J Inld Fish Soc India	India	6	15	7	33	12	73
50	Circulation	USA	15	20	10	15	12	72
51	J expl Biol	USA	12	27	14	8	11	72
52	Obstet Gynaec	USA	10	25	22	10	5	72
53	Am J Physiol	USA	17	25	10	9	10	71
54	Zoologischer Anzeiger	Germany	10	30	9	14	8	71
55	Proc zool Soc Bengal	India	18	32	10	5	4	69
56	J Physiol	UK	12	28	9	10	9	68
57	J zool Soc India	India	14	25	10	9	10	68
58	Toxicol appl Pharmac	USA	12	17	10	15	14	68
59	Cancer Res	USA	13	27	7	14	6	67
60	Gastroenterology	USA	16	25	10	7	9	67
61	Bull Jap Soc sci Fish	Japan	20	22	12	7	5	66
62	Indian J Sericulture	India	31	10	5	20	--	66
63	Ann appl Biol	UK	9	19	20	9	10	65
64	Appl Microbiol (Appl envir Microbiol)	USA	12	23	10	12	8	65
65	Bull ent Res	UK	20	18	12	7	8	65
66	Trans Am Fish Soc	USA	12	19	13	11	10	65
67	Trans Br mycol Soc	UK	5	30	10	9	11	65
68	Hereditas	Sweden	11	22	14	11	6	64
69	J Indian med Ass	India	12	16	11	15	10	64
70	Parasitology	UK	16	25	10	9	4	64
71	Vox Sanguinis (J Blood Transfusion Immunohaematol)	Switzerland	21	30	7	3	3	64
72	Biochem Pharmacol	UK	13	11	10	15	9	63
73	J Urol	USA	11	19	8	18	7	63
74	Acta Cytologica	USA	4	18	14	13	7	61
75	Am J clin Nutr	USA	16	10	9	14	12	61
76	Antimicrobial Agents Chemotherapy	USA	15	21	12	10	11	61
77	Archs envir Hlth	USA	13	23	8	10	7	61
78	Geobios	India	15	14	10	12	10	61
79	Heredity	USA	14	20	8	11	8	61
80	Mutation Res	Netherlands	7	23	6	13	12	61
81	Surg Gynaec Obstet	USA	9	20	10	18	4	61
82	Am J clin Pathol	USA	10	23	9	11	7	60
83	A Rev Ent	USA	18	17	8	8	9	60
84	Diabetes	USA	7	15	8	20	10	60
85	Mosquito News	USA	14	25	8	5	3	60
86	Naturwissenschaften	Germany	13	22	8	10	7	60
87	Am J Med	USA	14	10	11	14	8	57
88	Can J Microbiol	Canada	28	29	9	8	3	57
89	J Bacteriol	USA	5	14	7	19	12	57
90	Cytologia	Japan	10	18	7	18	5	58
91	Fert Sterility	USA	3	24	14	7	9	56
92	Indian J Anim Sci	India	6	8	7	20	15	56
93	Ann internal Med	USA	12	15	10	11	7	55
94	Cell Tissue Res	Germany	13	17	10	8	7	55
95	Indian Drugs	India	8	19	9	10	9	55
96	J Ecol	UK	7	20	5	11	9	52

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S.No.	Journal Title	Country of Origin	Year					Total
			80	81-82	83	84	85	
97	Caryologia	Italy	12	22	9	5	6	54
98	Indian J envir Hlth	India	10	16	12	9	7	54
99	Int J Lepr	USA	22	9	15	--	8	54
100	J lab clin Med	USA	6	20	5	13	10	54
101	Am J Anat	USA	5	21	7	9	11	53
102	Archs Toxicol	Germany	7	15	14	10	7	53
103	J Cell Biol	USA	10	25	5	7	6	53
104	Trans Am microscopical Soc	USA	14	21	7	6	5	53
105	Z Naturforsch	Germany	11	17	9	10	6	53
106	Bull WHO	UN	17	15	10	4	6	52
107	Entomol Experimentalis et Applicata	Netherlands	6	16	9	11	10	52
108	Genetics	USA	9	17	7	8	11	52
109	J antimicrobial Chemotherapy	UK	14	10	10	12	6	52
110	Pediatrics	USA	8	17	7	13	7	52
111	Am Naturalist	USA	5	21	10	7	6	51
112	Prog Fish Cult	USA	9	20	10	5	7	51
113	Arzneimittel Forsch	Germany	3	16	7	16	8	50
114	J comp Neurol	USA	9	16	6	4	15	50
115	J Pediat	USA	13	8	8	8	13	50
116	Nucleus	India	11	23	7	4	5	50
117	Am Zool	USA	10	9	11	12	7	49
118	Indian Vet J	India	5	14	7	13	10	49
119	J Ass Physicians India	India	20	19	10	11	5	49
120	J invertebrate Path	USA	8	25	5	6	5	49
121	Mycopathologica Mycologica Applicata	Netherlands	11	20	6	8	4	49
122	Pestic Biochem Physiol	USA	13	20	5	6	5	49
123	Pestic Sci	UK	10	17	3	12	7	49
124	Aust J biol Sci	Australia	14	15	8	6	5	48
125	Genetica	Netherlands	7	22	6	7	6	48
126	J Nat Cancer Inst	USA	4	17	6	16	5	48
127	Z angewandte Entomologie	Germany	6	20	--	9	13	48
128	Zoologicheskii Zh	USSR	5	13	7	13	10	48
129	Brain Res	Netherlands	7	12	14	10	4	47
130	Expl Cell Res	USA	10	13	9	10	5	47
131	J Anat	UK	6	20	7	6	8	47
132	J med Chem	USA	--	24	7	10	6	47
133	Life Sci	UK	4	13	9	14	7	47
134	Acta Histochemica	Germany	10	18	5	6	7	46
135	Expl Parasitol	USA	10	22	7	3	4	46
136	Fed Proc	USA	10	20	7	6	3	46
137	Indian Pediat	India	7	18	10	6	3	46
138	J Immunol	USA	8	20	7	8	3	46
139	J infectious Dis	USA	15	10	7	6	3	46
140	J Zool	UK	9	17	5	10	5	46
141	Am J trop Med Hyg	USA	6	18	8	6	7	45
142	Am Rev respir Dis	USA	7	15	6	5	12	45
143	Indian J Helminthol	India	18	12	8	7	--	45
144	Indian J med Sci	India	10	22	8	--	5	45
145	J Cell Sci	UK	3	33	5	4	--	45
146	J Genet	India	10	23	5	4	2	45
147	Physiol Zool	USA	9	17	7	6	6	45

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S.No.	Journal Title	Country of Origin	Year					Total
			80	81-82	83	84	85	
148	Surgery	USA	12	15	9	4	5	45
149	Acta Med Scandinavica	Sweden	7	11	10	11	5	44
150	Am J Cardiol	USA	12	16	10	5	11	44
151	Am J Surg	USA	19	20	3	6	--	44
152	Archs Dermatol	USA	18	7	3	6	5	44
153	J Anim Morphol Physiol	India	12	10	10	8	4	44
154	J mar biol Ass UK	UK	11	28	9	--	4	44
155	Annotaciones Zoologicae Japonicae	Japan	10	20	3	4	2	44

Table II : Indian Journals in the Core List on Life Sciences

S.No	Journal Title	Rank in core list
1	Geobios	78
2	Indian Drugs	95
3	Indian J Anim Sci	92
4	Indian J Ent	7
5	Indian J envir Hlth	98
6	Indian J expl Biol	12
7	Indian J Fish	35
8	Indian J Helminthology	143
9	Indian J med Res	16
10	Indian J med Sci	144
11	Indian J Sericulture	62
12	Indian Pediat	137
13	Indian Vet J	118
14	J Anim Morphol Physiol	153
15	J Ass Physicians India	119
16	J Bombay nat Hist Soc	10
17	J Genet	146
18	J Indian med Ass	69
19	J Inld Fish Soc India	49
20	J zool Soc India	57
21	Nucleus	116
22	Proc zool Soc Bengal	55
23	Rec Indian Mus (Rep zool Surv India)	28

Table III : Availability of Core Journals in Life Sciences in NSL

S.No.	Journal Title	Rank in Table I
1	Analyt Biochem	29
2	Ann Rev Ent	83
3	Appl envir Microbiol	64
4	Bull WHO	106
5	Can J Microbiol	88
6	Can J Zool	26
7	Comp Biochem Physiol	3
8	Fed Proc	136
9	Geobios	78
10	Indian Drugs	95
11	Indian J Anim Sci	92
12	Indian J Ent	7
13	Indian J envir Hlth	98
14	Indian J expl Biol	12
15	Indian J Fish	35
16	Indian J Helminthology	143
17	Indian J Sericulture	62
18	Indian Vet J	118
19	J Anim Morphol Physiol	153
20	J Ass Physicians India	119
21	J Bacteriol	89
22	J Bombay nat Hist Soc	10
23	J Genet	146
24	J Indian med Ass	69
25	J Inld Fish Soc India	49
26	J Nat Cancer Inst	126
27	J zool Soc India	57
28	Nucleus	116
29	Proc zool Soc Bengal	55
30	Prog Fish Cult	112
31	Rec Indian Mus	28
32	Zoologicheskii Zh	128

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Table IV : Availability of core journals in Life Sciences in the Libraries of six metropolitan cities (Figures under each city are indicative of the number of libraries having the journal)

S.No	Journal Title	Delhi	Calcutta	Bombay	Madras	Bangalore	Hyderabad
1	Acta Anat	5	4	2	2	-	2
2	Acta Cytol	8	4	4	-	1	1
3	Acta Histochemica	1	3	-	-	-	-
4	Acta Med Scandinavica	9	4	2	3	1	2
5	Am J Anat	6	5	6	7	3	5
6	Am J Cardiol	5	3	4	4	2	2
7	Am J clin Nutr	8	7	5	2	2	3
8	Am J clin Pathol	8	11	8	8	5	5
9	Am J Med	9	9	8	3	2	4
10	Am J Obstet Gynaec	11	14	11	6	3	2
11	Am J Physiol	13	17	9	9	7	5
12	Am J Surg	7	5	5	5	3	4
13	Am J trop Med Hyg	11	8	7	7	4	4
14	Am Naturalist	6	5	4	2	2	1
15	Am Rev respir Dis	9	5	8	5	4	2
16	Am Zool	-	1	-	-	-	1
17	Analyt Biochem	9	6	4	2	2	4
18	Anat Rec	6	9	7	5	4	4
19	Ann appl Biol	7	5	3	2	3	6
20	Ann ent Soc Am	3	1	2	-	3	4
21	Ann internal Med	11	10	7	4	4	4
22	Ann Mag nat Hist	2	5	3	3	-	1
23	Annotationes Zoolgicae Japonicae	1	1	1	2	-	1
24	A Rev Ent	9	5	6	2	4	8
25	Antimicrobial Agents Chemotherapy	1	2	1	3	1	2
26	Appl Microbiol (Appl enviro Microbiol)	9	10	8	6	4	5
27	Archs Dermatol	8	7	4	4	3	2
28	Archs enviro Hlth	4	-	-	1	-	-
29	Archs Toxicol	1	1	2	-	-	2
30	Arzneimittel Forsch	12	2	3	3	3	3
31	Aust J biol Sci	12	25	10	8	5	7
32	Biochem J	4	4	5	1	2	3
33	Biochem Pharmacol	8	8	7	6	2	2
34	Biol Bull	4	-	-	1	1	2
35	Brain Res	22	37	18	14	8	8
36	Br med J	7	4	4	4	3	7
37	Bull ent Res	5	-	1	-	3	2
38	Bull enviro Contamination Toxicol	-	-	2	-	-	-
39	Bull Jap Soc sci Fish (Nihon Suisan Gakkai Shi)	14	17	6	6	6	4
40	Bull WHO	3	1	1	1	3	1
41	Can Ent	7	10	2	4	2	5
43	Can J Zool	5	9	2	-	3	1
44	Cancer Res	6	7	6	2	2	3

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S.No	Journal Title	Delhi	Calcutta	Bombay	Madras	Bangalore	Hyderabad
45	Caryologia	3	3	1	2	1	1
46	Cell Tissue Res	2	2	1	1	-	2
47	Chromosoma	4	4	2	2	3	1
48	Circulation	11	10	8	4	3	3
49	Clin Chem	6	4	7	3	3	2
50	Comp Biochem Physiol	4	3	2	1	1	1
51	Cytologia	3	4	3	3	3	5
52	Diabetes	6	5	4	3	3	3
53	Ecology	5	3	4	4	3	1
54	Endocrinology	9	14	10	5	3	4
55	Entomol Experimentalis et Applicata	2	1	1	-	2	3
56	Experientia	10	13	8	5	3	5
57	Expl Cell Res	5	8	2	3	2	3
58	Expl Parasitol	5	6	2	2	2	2
59	Fed Proc	11	10	7	7	2	4
60	Fert Sterility	7	7	5	4	3	3
61	Gastroenterology	5	7	4	3	2	4
62	Gen comp Endocrinol	3	3	3	1	1	1
63	Genetica	4	2	-	-	1	1
64	Genetics	8	10	6	1	3	6
65	Geobios	3	2	1	1	-	-
66	Hereditas	6	7	2	2	4	2
67	Hydrobiologia	2	1	2	2	1	1
68	Indian Drugs	6	5	2	-	3	2
69	Indian J Anim Sci	4	9	5	5	2	4
70	Indian J Ent	6	5	1	5	1	3
71	Indian J envir Hlth	5	7	1	3	2	6
72	Indian J expl Biol	6	24	16	9	2	5
73	Indian J Fish	6	2	5	5	3	2
74	Indian J Helminthol	3	2	-	-	1	1
75	Indian J med Res	9	24	7	7	2	7
76	Indian J med Scs	7	15	5	4	1	2
77	Indian J Sericulture	3	2	1	-	2	-
78	Indian Pediat	5	6	1	1	2	2
79	Indian Vet J	5	7	2	2	2	2
80	Int J Lepr	3	10	7	4	3	4
81	J Am med Ass (JAMA)	11	24	13	7	2	6
82	J Anat	5	10	3	6	2	4
83	J Anim Ecol	3	3	4	3	3	-
84	J Anim Morphol Physiol	1	2	4	4	2	3
85	J antimicrobial Chemotherapy	1	-	1	-	-	1
86	J Ass Physicians India	5	8	9	4	2	4
87	J Bacteriol	12	18	13	10	7	11
88	J biol Chem	13	30	15	9	5	8
89	J Bombay nat Hist Soc	6	15	12	9	4	5
90	J Bone Jt Surg	6	13	7	5	2	1
91	J Cell Biol	7	9	6	4	3	2
92	J Cell Sci	9	7	5	7	3	3
93	J clin Investigation	9	10	9	6	2	4
94	J comp Neurol	4	4	3	3	3	-
95	J Ecol	6	5	3	2	3	2
96	J econ Ent	3	1	3	-	2	8

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S.No	Journal Title	Delhi	Calcutta	Bombay	Madras	Bangalore	Hyderabad
97	J expl Biol	11	6	11	4	3	4
98	J expl Zool	6	3	7	3	3	2
99	J Fish Biol	-	1	1	1	2	1
100	J Fish Res Bd Can (Can J Fish aquatic Sci)	2	4	4	4	2	-
101	J Genet	7	5	5	2	2	5
102	J Heredity	4	11	4	3	4	4
103	J Immunol	10	18	8	8	5	6
104	J Indian med Ass	5	24	5	7	1	8
105	J infectious Dis	9	9	4	8	5	4
106	J Inld Fish Soc India	2	2	2	-	1	-
107	J Insect Physiol	3	1	1	-	2	3
108	J invertebrate Path	1	2	1	-	4	1
109	J lab clin Med	7	14	7	6	4	5
110	J mar biol Ass UK	1	1	6	6	-	2
111	J med Chem	3	12	10	1	2	3
112	J Morphology	4	4	6	2	2	2
113	J Nat Cancer Inst	6	8	9	1	3	2
114	J Parasitol	7	8	4	5	5	6
115	J Pediat	7	5	4	3	2	2
116	J Pharmacol expl Therapeutics	8	18	8	6	-	6
117	J Physiol	9	16	11	6	5	4
118	J Reproduction Fert	6	4	4	2	1	5
119	J Urol	4	7	7	4	2	2
120	J zool Soc India	3	2	3	2	-	-
121	J Zool	2	4	5	4	1	2
122	Lancet	17	28	19	15	7	10
123	Life Sci	10	4	3	1	2	3
124	Mosquito News	2	1	-	-	1	1
125	Mutation Res	4	4	2	1	3	3
126	Mycopathologica Mycologica Applicata	4	1	4	1	3	1
127	Naturwissenschaften	5	11	6	2	3	3
128	New Engl J Med	11	16	11	3	3	3
129	Nucleus	3	8	-	1	1	2
130	Obstet Gynaec	7	6	5	3	2	4
131	Parasitology	7	9	6	7	2	4
132	Pediatrics	7	3	5	3	2	3
133	Pestic Biochem Physiol	3	-	2	-	2	2
134	Pestic Sci	2	2	-	-	1	4
135	Physiol Zool	2	3	2	1	1	-
136	Phytopathology	3	2	1	3	4	6
137	Proc R ent Soc India	2	1	-	1	1	-
138	Proc Soc expl Biol Med	10	15	9	7	1	3
139	Proc zool Soc Bengal	5	11	2	1	1	-
140	Proc zool Soc Lond (J Zool)	2	4	5	4	1	2
141	Prog Fish Cult	1	2	1	-	-	-
142	Q J microscopical Soc	3	11	5	7	-	3
143	Rec Indian Mus (Rep zool Surv India)	4	9	1	2	1	-
144	Surgery	4	6	4	4	2	2
145	Surg Gynaec Obstet	6	17	8	6	3	2
146	Toxicol appl Pharmacol	4	1	5	1	1	-
147	Trans Am Fish Soc	1	-	2	1	1	-

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S.No	Journal Title	Delhi	Calcutta	Bombay	Madras	Bangalore	Hyderabad
148	Trans Am microscopical Soc	3	3	-	1	-	1
149	Trans Br mycol Soc	2	2	2	2	2	3
150	Vox Sanguinis (J blood Transusion Immunohaematol)	1	4	4	-	-	1
151	Z angewandte Ent	1	1	-	-	1	-
152	Z Naturforsch	2	1	2	-	-	1
153	Z Zellforsch Mikroskopische Anat (Cell Tissue Res)	2	2	1	1	-	2✓
154	Zoologicheskii Zh	2	3	-	-	-	-
155	Zoologischer Anzeiger	1	1	1	2	-	-

Table V : 50 most cited and 50 most used Titles

S.No	Journal Title	Citation Rank	Use Rank
1	New Engl J Med	15.921	17
2	Lancet	9.444	1
3	Circulation	6.780	50
4	J clin Invest	6.123	45
5	J biol Chem	6.113	2
6	Endocrinology	4.347	36
7	JAMA	3.804	6
8	J Pharmacol Therapeutics	3.488	39
9	Biochem J	3.425	9
10	Clin Chem	3.281	41
11	Br Med J	2.804	18
12	Ecology	2.522	20
13	Analyt Biochem	2.521	29
14	Chromosoma	2.188	24
15	J Reproduction Fert	2.182	46
16	J expl Biol	1.942	37
17	Gen comp Endocr	1.867	11
18	Anatomical Rec	1.848	27
19	Biol Bull	1.844	30
20	Am J Obstet Gynaec	1.823	38
21	J Insect Physiol	1.654	8
22	Phytopathology	1.497	23
23	Comp Biochem Physiol	1.493	3
24	Proc Soc expl Biol Med	1.376	19
25	J Bone Jt Surgery	1.366	25
26	J expl Zool	1.294	51

CORE JOURNALS IN LIFE SCIENCES

S.No	Journal Title	Citation Rank	Use Rank
27	J Morphol	0.958	14
28	Experientia	0.881	22
29	J Parasitol	0.880	48
30	Bull envir Contamination Toxicol	0.857	33
31	J Fish Biol	0.848	47
32	Can J Zool	0.829	26
33	Acta Anatomica	0.742	42
34	J econ Ent	0.657	4
35	Hydrobiologia	0.579	13
36	Ann ent Soc Am	0.571	5
37	Can Ent	0.426	32
38	Indian J expl Biol	0.270	12
39	Indian J med Res	0.249	16
40*	Ann Mag nat Hist	0.000	40
41*	Indian J Ent	0.000	7
42*	Indian J Fish	0.000	35
43*	J Bombay nat Hist Soc	0.000	10
44*	J Fish Res Bd Canada	0.000	21
45*	J Inld Fish Soc India	0.000	49
46*	Proc R ent Soc India	0.000	15
47*	Proc zool Soc Lond	0.000	43
48*	Q J microscopical Sci Lond	0.000	31
49*	Rec Indian Mus	0.000	28
50*	Z Zellforsch mikroskopische Anatomie	0.000	34

The Impact Factor of these journals did not feature in JCR-84

Table VI : Country of Origin of the Core Journals in Life Science

S.No	Country of origin	No. of journals in rank list	Total orders received	% of core journal published by the countries
1	USA	75	5261	48.39
2	UK	25	2346	16.13
3	India	23	1756	14.84
4	Germany	10	645	6.45
5	Netherlands	6	406	3.87
6	Canada	4	382	2.58
7	Japan	3	166	1.94
8	Switzerland	3	262	1.94
9	Sweden	2	168	1.29
10	Australia	1	48	0.65
11	Italy	1	54	0.65
12	FR	1	52	0.65
13	USSR	1	48	0.65