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**CANADA**



**COLLATERAL ANALYSIS  
AND VERIFICATION OF  
BIOLOGICAL AND TOXIN RESEARCH:  
A THIRD CASE STUDY**



MAY 1993

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Dept. of External Affairs  
Min. des Affaires extérieures

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## PREFACE

This report is the third in a series which examines the potential contribution that collateral analysis can make to the consideration of issues related to the Biological and Toxin Weapons Convention (BTWC).

The Gulf War prompted unprecedented concerns about the potential use of biological and toxin weapons, which use would have violated the 1925 Geneva Protocol. Public speculation and media reports at the time suggested that Israel was a likely target for the use of such weapons, as were certain other states of the region as well as assembled coalition forces.

Israel has not signed and is not a Party to the BTWC. However, there are abundant signs that Israel is prepared to address regional and global security concerns in a variety of ways, including through arms control agreements.

The quest for international security and stability includes continuing efforts to convince those States not party to international agreements to reconsider their positions and to examine security issues from a number of viewpoints, including that of other regional neighbours. There is also an inherent right of States Parties to a global treaty to be concerned about States who have not assumed the same obligations.

Since so much of the concern about biological and toxin weapons falls in the realm of dual-use technology, any detailed discussion of such matters must inevitably comprise an assessment --a "picture" -- of States' technological capabilities. Only on such a basis can an informed discussion take place. It was with this in mind that Canada embarked upon the collateral analysis of publications of three States Parties (Iraq, Iran and Canada) and one non-party (Israel) to the BTWC. These countries were chosen because their levels of technological

capability were considered to be demonstrably different as was indicated by a preliminary examination of scientific publication databases. Although the studies do not purport to be exhaustive, they can serve as useful reference points in undertaking a comparison of what can be accomplished through the use of collateral analysis. Collateral analysis is a low-technology means of verification which is available to all States Parties to the BTWC.

It must be absolutely clear from the outset that this paper does not address the question of biological and toxin warfare. It is about technology, research methodology and the free flow of information. This case study uses "collateral analysis" to identify from the public literature the types of biological research that have been conducted in Israel and published. This can accomplish the following:

- identify specific areas of published research activity;
- identify institutions and scientists associated with such published research activity;
- identify the absence of published research activity in specific areas of endeavour.

Such collateral analysis can give indications of a country's technological base. It bears repeating that this report does not suggest that the work of the institutes and authors cited is in any way associated with biological warfare programs. This paper simply collates publicly-available documentation as published by the institutes and authors concerned, and it draws no conclusions from that information.

This is a report of a research project. The views expressed herein do not necessarily reflect those of the Canadian Government.

## **ACKNOWLEDGEMENT**

External Affairs and International Trade Canada wishes to acknowledge the work performed under contract by Brac Scientific Consulting, in collaboration with the Verification Research Unit of this Department.

## PRINCIPAL FINDINGS AND CONCLUSIONS

- Various computerized databases, containing over 33 million records of scientific research from over 130 countries during the period 1966-1993, were accessed using key-words for this study.
- A total of 177,794 publications were identified from Israel during the period 1970 to 1992.
- 16,055 publications were selected, by the use of key-words related to biological and toxin research, from the identified Israeli research.
- 962 unique publications (6%) were sampled from the selected Israeli publications. This sample formed the basis of the subsequent analysis. The titles of the sampled publications appear in the Annexes to this paper.
- The records of the published research were analyzed in terms of:
  - sites of research;
  - patterns of the publications over time;
  - authors; and
  - apparent nature of the research.

- The following were identified as the main Israeli laboratories and institutes publishing on biological and toxin matters:
  - Weizmann Institute of Science, Rehovot;
  - Hebrew University-Hadassah Medical School, Jerusalem;
  - George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv;
  - Ben-gurion University, Negev, Beer-sheva;
  - Israel Institute of Biological Research, Ness-Ziona;
  - Faculty of Medicine, Technion, Haifa;
  - Medical Corps, Israel Defense Forces.
  
- Two research centres, the Weizmann Institute of Science and the Hebrew-Hadassah Medical School accounted for 35% of the sampled publications.
  
- The Weizmann Institute of Science is a world-class research centre publishing basic research related to peptides, toxins, cell membrane function and immunology.
  
- The Hebrew University-Hadassah Medical School is a major centre of both basic as well as applied biological and toxin research in Israel. It published research detailing field tests of vaccines in collaboration with the Israel Defense Forces, on diseases that represent potential health problems in Israel.

## 1.0 INTRODUCTION

The Biological and Toxin Weapons Convention (BTWC) forbids the development, production and stockpiling of such weapons, as is shown from the enclosed box (see below). The Third Review Conference of the BTWC, held in September 1991, sought to address certain concerns through agreement on a refined and expanded set of confidence-building measures (CBMs) designed to provide greater transparency among States.

In September 1991, the Third Review Conference of the Parties to the BTWC also decided to establish an Ad Hoc Group of Governmental Experts open to all States Parties to identify and examine potential verification measures from a scientific and technical standpoint. One category of measures agreed by the Group for the evaluation is entitled "Information Monitoring" which includes "Surveillance of publications" as a separate measure.

The term "collateral analysis" has been used to describe a method of information gathering that involves the collection and systematic examination of publicly-available scientific, technical and other information.

### Article I

**Each State Party to this Convention undertakes never in any circumstances to develop, produce, stockpile or otherwise acquire or retain:**

**(1) Microbial or other biological agents, or toxins whatever their origin or method of production, of types and in quantities that have no justification for prophylactic, protective or other peaceful purposes;**

**(2) Weapons, equipment or means of delivery designed to use such agents or toxins for hostile purposes or in armed conflict.**

It makes no judgement as to the purpose of the research. The analysis may provide an initial picture of a country's technological base and of its capacity to move in a variety of directions, some of which may be of concern and, therefore, a potential area for directing CBM or verification effort to enhance transparency. Similarly, a lack of publication in certain areas of endeavour, when coupled with other sources of information, could raise certain questions. It must be added, however, that collateral analysis cannot be expected to reveal activities that are deliberately concealed.

This study had three objectives:

- 1) to identify specific areas of Israeli published research activity;
- 2) to identify institutions and scientists associated with such published research activity; and
- 3) to identify the absence of published research activity in specific areas of endeavour.

## 2.0 STUDY METHODOLOGY

A major part of this study depended upon the gathering of information available in the open scientific literature, specifically computerized databases. Therefore, the sources and quality of the information played an important role in determining the usefulness of collateral analysis. Table 1 lists five databases that have been found to provide particularly useful coverage of biological, biochemical and medical research. Together, these databases contain over 33 million records of scientific research from over 130 countries. Accordingly, they were the primary sources of information used in this study of Israeli research. The databases provide consistent coverage during the time period 1970-1992. The following sections will describe the databases and their breadth of coverage.

**Table 1. Major Scientific Databases**

<b>DATABASE</b>	<b>COVERAGE</b>	<b>RECORDS</b>
BIOSIS Previews	1969-present	7,813,897
Embase	1974-present	4,815,654
Medline	1966-present	6,958,530
CAB Abstracts	1972-present	2,979,945
CS Search	1969-present	10,870,743



## 2.1 BIOSIS Previews

BIOSIS Previews contains citations from Biological Abstracts (BA); Biological Abstracts/RRM (Reports, Reviews, Meetings [BA/RRM]); and BioResearch Index (BioI), which are the major publications of BIOSIS. Together, these publications constitute the major English-language service providing comprehensive worldwide coverage of research in the biological and biomedical sciences. Biological Abstracts includes approximately 280,000 accounts of original research yearly from nearly 9,000 primary journal and monograph titles. Biological Abstracts/RRM includes an additional 260,000 citations a year drawn from meeting abstracts, reviews, books, notes, letters, selected institutional and government reports, and research communications. U.S. patents are included from 1986 through 1989. The time period covered by BIOSIS Previews is 1969 to the present. The subject coverage in this database includes all life science subjects, including but not limited to the following: Agriculture, Anatomy, Bacteriology, Behavioral Sciences, Biochemistry, Bioengineering, Biophysics, Biotechnology, Botany, Cell Biology, Clinical Medicine, Environmental Biology, Experimental Medicine, Genetics, Immunology, Microbiology, Occupational Health, Parasitology, Pathology, Pharmacology, Physiology, Public Health, Radiation Biology, Systematic Biology, Toxicology, Toxin Research, Veterinary Science, Virology, Zoology. The material scanned for BIOSIS Previews includes the following: approximately 9,000 primary journal and monograph titles, books, reviews, technical reports, meetings and meeting abstracts, notes, letters, annual reviews, U.S. patents from 1986 through 1989, bibliographies, guides, and research communications.

## 2.2 Embase

Embase (Excerpta Medica) is a comprehensive index of the world's literature on human medicine and related disciplines. About 350,000 records are added annually, over 60% of which contain abstracts. All journal articles are added to the database within 30 days after receipt of the journal, and all records appear on-line with complete indexing.

Subject coverage includes Adverse Drug Reactions, Anaesthesiology, Bacteriology, Biochemistry, Bioengineering, Cancer, Cardiovascular Disease, Endocrinology, Environmental Health, Forensic Science, Genetics, Gene Technology, Health Economics, Hematology, Immunology, Industrial Medicine, Infectious Diseases, Internal Medicine, Microbiology, Neurology, Nuclear Medicine, Occupational Health, Parasitology, Pathology, Pharmacology, Physiology, Physiotherapy, Pollution Control, Psychiatry, Public Health, Radiology, Toxicology, Virology.

Embase provides access to periodical articles from more than 2,900 primary journals from over 110 countries. An additional 600 journals are screened for drug articles.

This database provides coverage of research from 1974 to the present.

## 2.3 CA Search

The CA Search database includes citations to the literature of chemistry and its applications. A significant part of its coverage includes biological chemistry, biotechnology, peptides, toxins and genetic engineering. CA Search is an expanded database which contains the basic bibliographic information appearing in the printed Chemical Abstracts. The subject coverage

includes Applied Chemistry, Biochemistry and Biology, Chemical Engineering, Classes of Substances, Macromolecular Chemistry, Organic and Inorganic Chemistry, Physical and Analytical Chemistry, Properties and Reactions.

The following sources are included in CA Search: journal articles, patents, reviews, technical reports, monographs, conference and symposium proceedings, dissertations, and books. Over 10,000 primary journals are abstracted. This includes coverage from over 120 countries. The database is updated two times a week with approximately 17,000 records per update. CA Search covers the time period 1967 to the present.

#### 2.4 CAB Abstracts

CAB Abstracts is a comprehensive file of agricultural and biological information containing all records in the 26 main abstract journals published by Commonwealth Agricultural Bureaux. Over 8,500 journals in 37 different languages are scanned for inclusion, as well as books, reports, theses, conference proceedings, patents, annual reports, and guides. In some instances less accessible literature is abstracted by scientists working in other countries. About 130,000 items are indexed each year. Significant papers are abstracted, while less important works are reported with bibliographic details only. The journals included in CAB Abstracts cover the following subjects: agricultural engineering, animal disease, biotechnology, horticulture, nutrition, veterinary science, entomology, plant pathology, pesticides, fertilizers, weeds, and world agricultural economics.

The material scanned for CAB Abstracts includes the following: scientific journals, books, monographs in series, textbooks, technical reports, published theses, symposia, conference proceedings, review journals, patents, annual reports, bibliographies and guides, and translated journals. The dates covered are 1972 to the present. The database is updated monthly.

## 2.5 Medline

Medline (Medlars on-line), produced by the U.S. National Library of Medicine, is one of the major sources for biomedical literature materials. Additional materials not published in Index Medicus are included in the Medline database in the areas of population and reproductive biology. Abstracts, which are taken directly from the published articles, are included for over 47% of the records added from 1975 forward. Records added before 1975 do not contain abstracts; records added from 1984 to the present have abstracts for about 59% of the records. Approximately 300,000 records are added per year, of which over 75% represent publications written in the English language.

Subject coverage includes Clinical Medicine, Experimental Medicine, Hospital Literature, Population and Reproductive Biology, Pharmacology, Psychiatry, Environment and Public Health, Veterinary Medicine, Pathology, Anatomy and Physiology, Microbiology and Parasitology, Toxicology. Medline indexes articles from approximately 3,300 journals published in over 70 countries. Dates covered include 1966 to the present.

## 2.6 Selection Criteria for Israeli Publications

After Israeli publications were identified in the major databases, the next step was to use key words to identify certain types of research. These key words are some of the indicators sometimes suggested to have a potential relationship to biological warfare research. It should be clearly noted that the presence of these key words described below does not imply any direct connection between the research and biological weapons programs.

Key words are tools with which to identify particular types of research.

Search strategies were used to identify Israeli research associated with the following topics. The following are key words:

- 1) Microbiology, virology, bacteriology, infectious diseases;
- 2) toxins, neurotoxins, (see Box 1 for specific key words);
- 3) recombinant DNA, gene-cloning, biotechnology;
- 4) large-scale production, fermentation, bioreactors;
- 5) vaccine technology, immunology, immunization;
- 6) aerosol, lyophilization;
- 7) specific biological agents, such as bacteria, viruses, rickettsia (see Box 2 for specific key-words); and,
- 8) bioregulators (see Box 3 for specific key words).

abrin  
apamin  
brevetoxin  
batrachotoxin  
botulinum toxin  
bungarotoxin  
conotoxin  
curare  
diamphotoxin  
latrotoxin  
mycotoxin  
palytoxin  
phospholipase  
ricin  
sarafotoxin  
saxitoxin  
tetanus toxin  
tetrodotoxin  
tubocurare

### 1. Toxin Key Words

The approach was taken to use broad terms such as microorganism, virus, bacteria and toxin as well as specific key words. This was done to ensure coverage and not miss any significant area of Israeli research.

Truncation was used so that minor differences in the ending of a key word would still allow its retrieval. For example, Box 2 gives *tulare?* as a key word. In this case, the question mark allows tularemia or *tularensis* to be selected. *Francisella tularensis* is the bacterium that causes the disease tularemia.

---

tulare?  
anthrax  
anthracis  
brucell?  
glanders  
pseudomonas  
cholera  
salmonella  
plague  
typhoid  
typhi  
q-fever  
influenza  
ebola  
marburg  
lassa  
west-nile  
congo-crimean  
dengue  
yellow fever  
smallpox

---

**2. Key Words for  
Biological Agents**

---

angiotensin  
atrial natriuretic  
peptide  
bombesin  
bradykinin  
cholecystokinin  
delta sleep-  
inducing peptide  
dynorphin  
endorphin  
endothelin  
enkephalin  
gastrin  
gonadoliberin  
neurotensin  
neuropeptide Y  
somatostatin  
substance P  
thyroliberin  
vasopressin

---

**3. Bioregulator Key  
Words**

Israeli publications were selected on the basis of the presence of key words described above. Publications from all five databases were selected containing these key words. It was estimated at the outset that the number of potential publications would be much greater than this study could directly examine. Therefore, it was decided to sample an appropriate number of key-word selected Israeli publications during the years 1970 to 1992. Preliminary surveys found approximately 16,055 publications from Israeli centres of research in all databases containing the key-words described above. To achieve a sample size of approximately one thousand unique publications for analysis, six percent of the publications were arbitrarily sampled by record number. The box below contains an explanation of the terms used throughout this study.

The sampled references were stored in a Pro-Cite bibliographic database. The records of the published research were analyzed in terms of:

- 1) sites of research;
- 2) patterns of publications over time;
- 3) authors of the publications; and
- 4) apparent nature of the research.

In the case of some research centres, further searches were done

with the on-line scientific databases. This was done to compare the results obtained from the sample of Israeli research with the overall picture contained in the major scientific databases.

#### Explanation of Terms

**Identification** is the process of finding all the publications from the major scientific databases for a particular country. In the case of Israel, there were 177,794 publications.

**Selection** is the process of using the key-words to find research on particular topics. In the case of Israel, approximately 100 key-words selected 16,055 publications.

**Sampling** is the process of taking a fixed percentage of the selected publications. In the case of Israel, 6% of 16,055 publications or 962 publications were sampled, and each abstract was examined in detail.

### 3.0 RESULTS OF THE STUDY

#### 3.1 Israeli Publications

One of the prime objectives of this study was to develop a baseline of information in order to analyze the trends of published Israeli biological research. Once a baseline of research in Israel had been established, questions could be asked about the possible nature of the described research. This report uses the number of scientific publications as a measure of research done. Table 2 gives the total number of publications identified with research having been carried out in Israel. In the time period under consideration, there were **177,794 publications from Israel**. While thousands of publications would be indicative of a significant level of research, it is important to ask when and where this research was carried out. Of course, the nature of the research is of prime importance. As well, a unique set of publications must be selected on the pertinent topics as described in section 2.6, since the multiple databases may report the same item.

**Table 2. Israeli Publications in Major Scientific Databases**

<b>DATABASE</b>	<b>COVERAGE</b>	<b>PUBLICATIONS</b>
Biosis Previews	1970-1992	37,972
Embase	1974-1992	51,774
Medline	1970-1992	15,690
CAB Abstracts	1972-1992	17,722
CA Search	1970-1992	53,179



This section also describes the time course of the total publications from Israel. Analysis of publications from Israel in scientific databases showed marked changes in the number of publications during the period January 1, 1970 to the end of 1992. Figure 1 shows the pattern of publications reported in all the major scientific databases examined in this study. It should be noted that this figure gives the total annual Israeli publications in each respective database. Thus, there were under 2,000 publications in 1970. This increased to approximately 7,000 publications by 1980. All databases showed an increasing number of publications until 1982. After a small dip, the total number of publications reached at peak in 1990 at over 14,000 publications. Caution should be used in interpreting these numbers since they were obtained from 5 different databases. There is a significant amount of overlap of coverage in the databases.

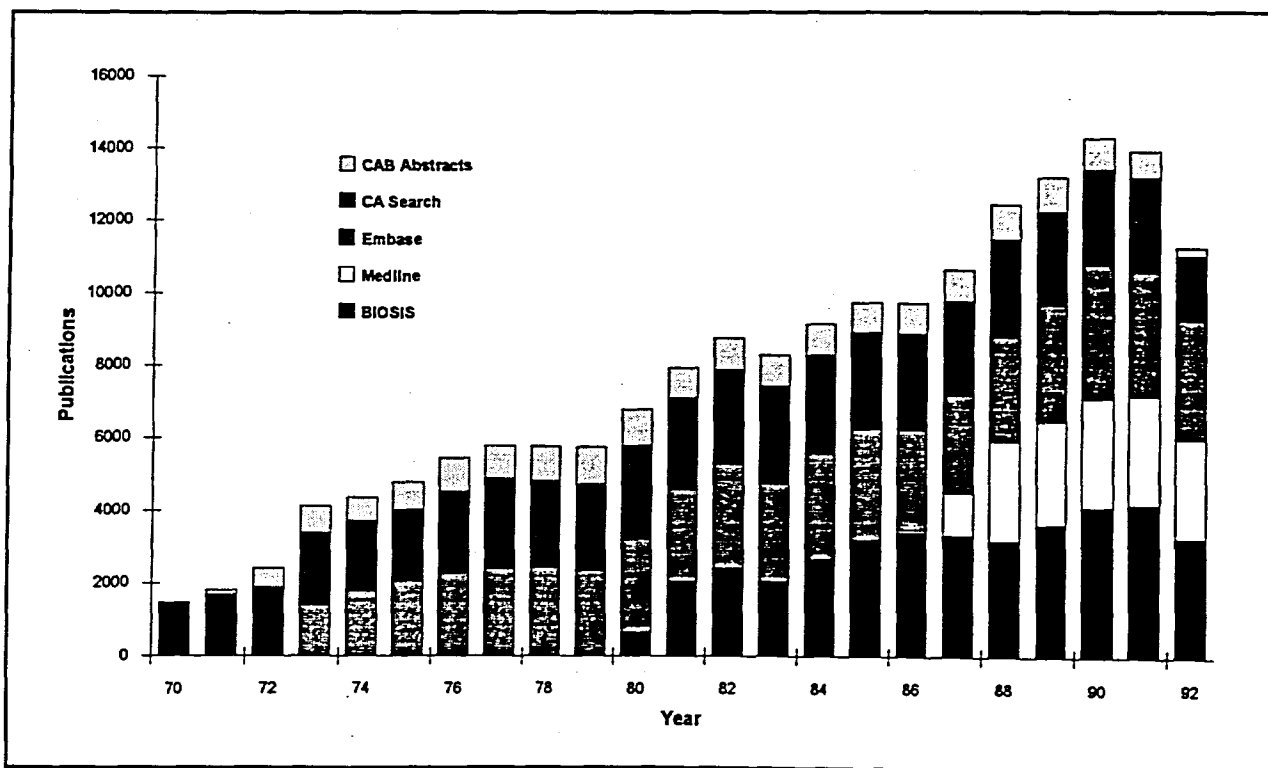


Figure 1. Total Israeli Publications in Scientific Databases

These results give an overview of all Israeli publications in major scientific databases used in this study. Clearly, there will be research included in these databases that is not at all pertinent to questions that this study is examining. Therefore, it was important to select and survey publications that have been chosen by the key-words that establish more direct relevance to biological and toxin research programs.

### 3.2 Sampled Israeli Publications

Figure 2 shows the time course of 962 Israeli publications sampled from all databases selected on the basis of key-words described in section 2.6. The objective was to sample research

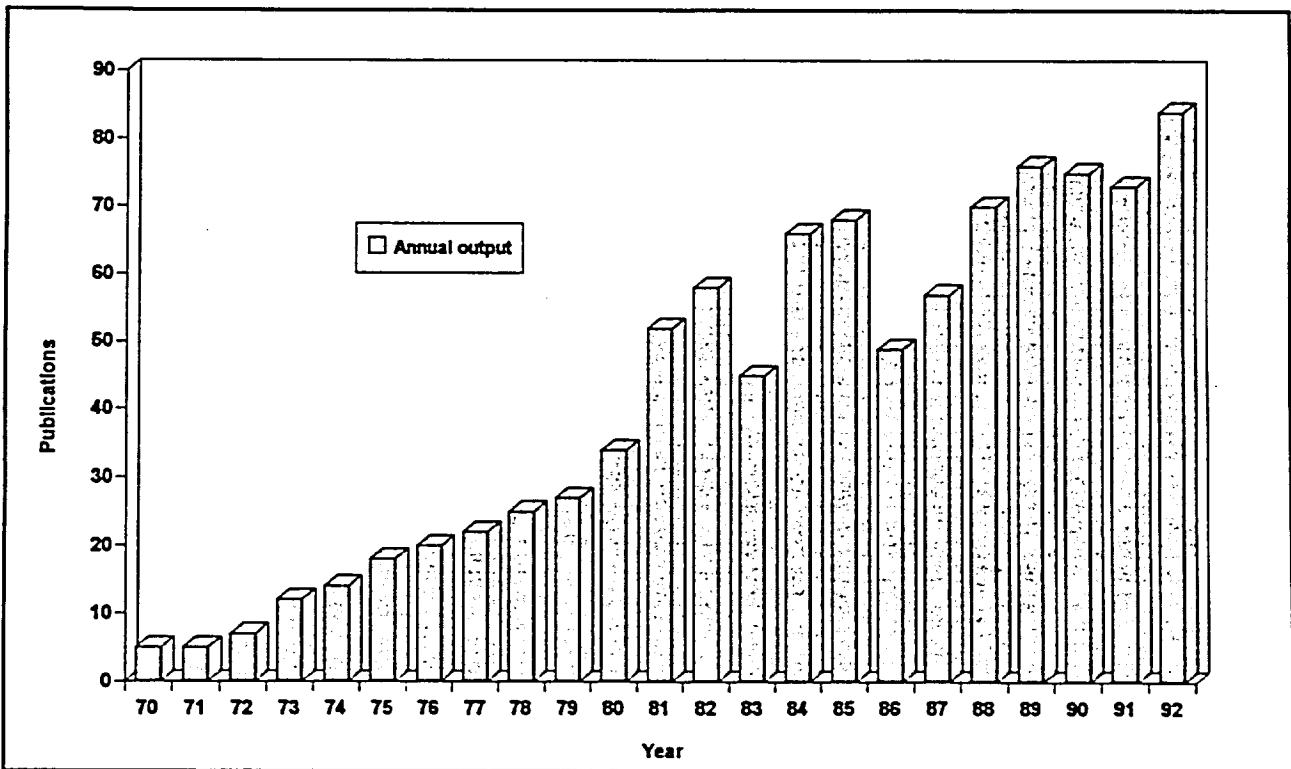


Figure 2. Sampled Israeli Publications

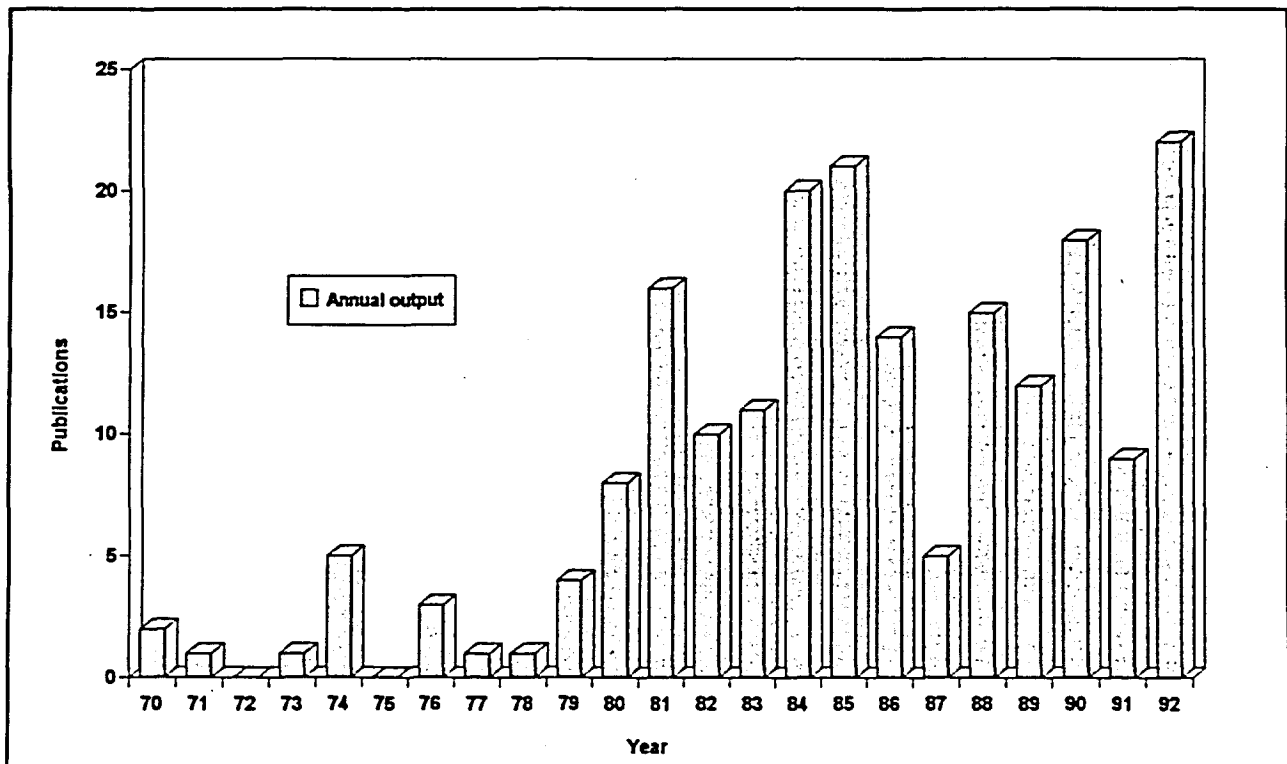
containing key words describing research in key subject areas dealing with recombinant DNA, viruses, bacteria, toxins, peptides, bioregulators and other key areas of biological and toxin research.

These publications formed a unique set of database records which were the basis for this study's analyses. The pattern of published research shows a low output on selected topics from 1970 to 1972. There were fewer than 10 publications per year. In 1973 the output from Israeli laboratories started to increase. In 1981, the number of publications reached 50. After this time, there was an overall increase in papers published on the selected topics.

In order to provide more detailed analysis, the research contained in the 962 selected publications was further broken down to describe the major research centres publishing this research. Annex A lists these centres as determined by the institutional affiliation that the publications gave. The following sections describe the main laboratories and institutes that publish biological and toxin research in the scientific literature from Israel.

### 3.3 Weizmann Institute of Science

The Weizmann Institute of Science, located in Rehovot, published 199 papers from the 962 sampled publications from Israel. This was the leading centre with 21% of the sampled studies relating to Israeli biological and toxin research selected by this study. Figure 3 shows



**Figure 3. Sampled Publications of the Weizmann Institute**

the time course of the Weizmann Institute publications sampled by this study. Between 1970 and 1979 there was a variable output of publications from the Weizmann Institute. From 1980 to 1985, there was an overall increase in publications, which dipped in 1987 but increased again by 1990. In 1992, there were 22 Weizmann Institute publications sampled.

The trends shown in Figure 3 are derived from the sample of the key-word selected Israeli publications. There were 16,055 key-word-selected publications from Israel. Therefore, it may be instructive to examine the actual number of publications from the Weizmann Institute. Figure 4 shows the time course of publications from two major scientific databases used in this study. This figure compares the total number of publications from the Weizmann Institute in CA Search (the online version of Chemical Abstracts) and Embase. It should be noted that, especially in the case of CA Search, this research could cover a wide range of subjects including subjects in chemistry not necessarily related to this study. This figure serves to show the importance and number of publications that the Weizmann Institute of Science has published in the time period under study. This Institute had several departments which are world leaders in biological research.

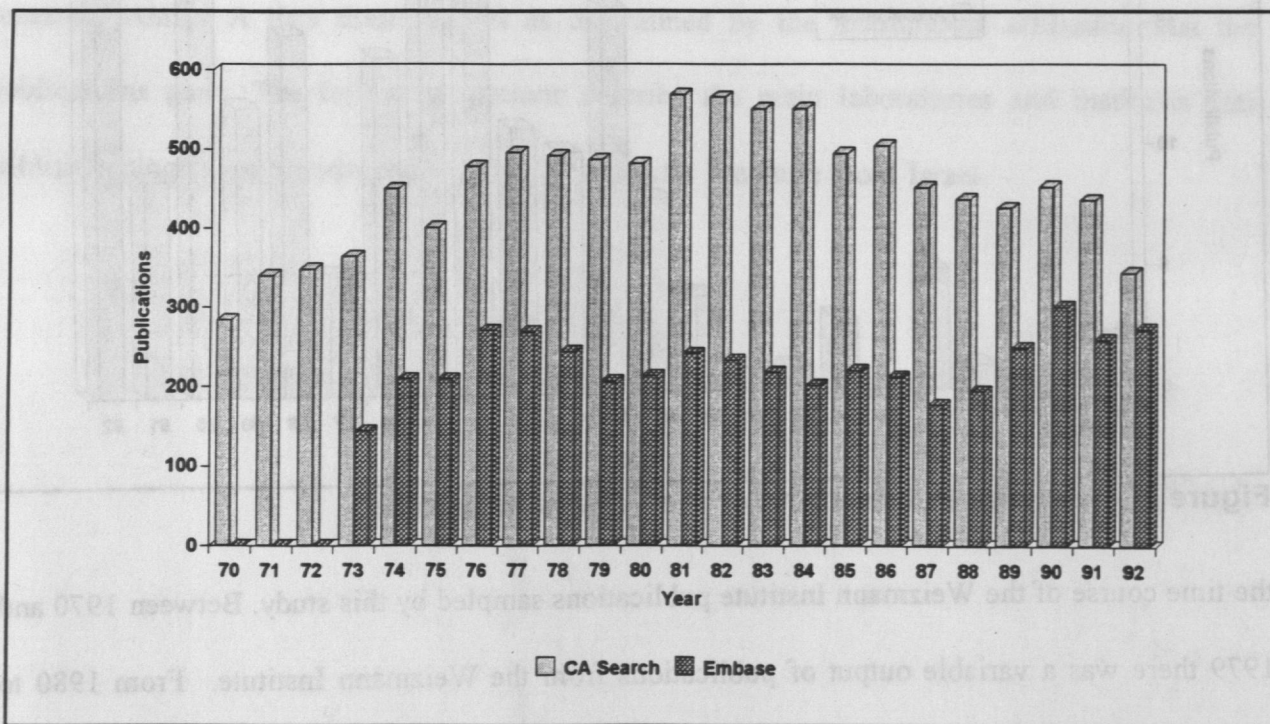
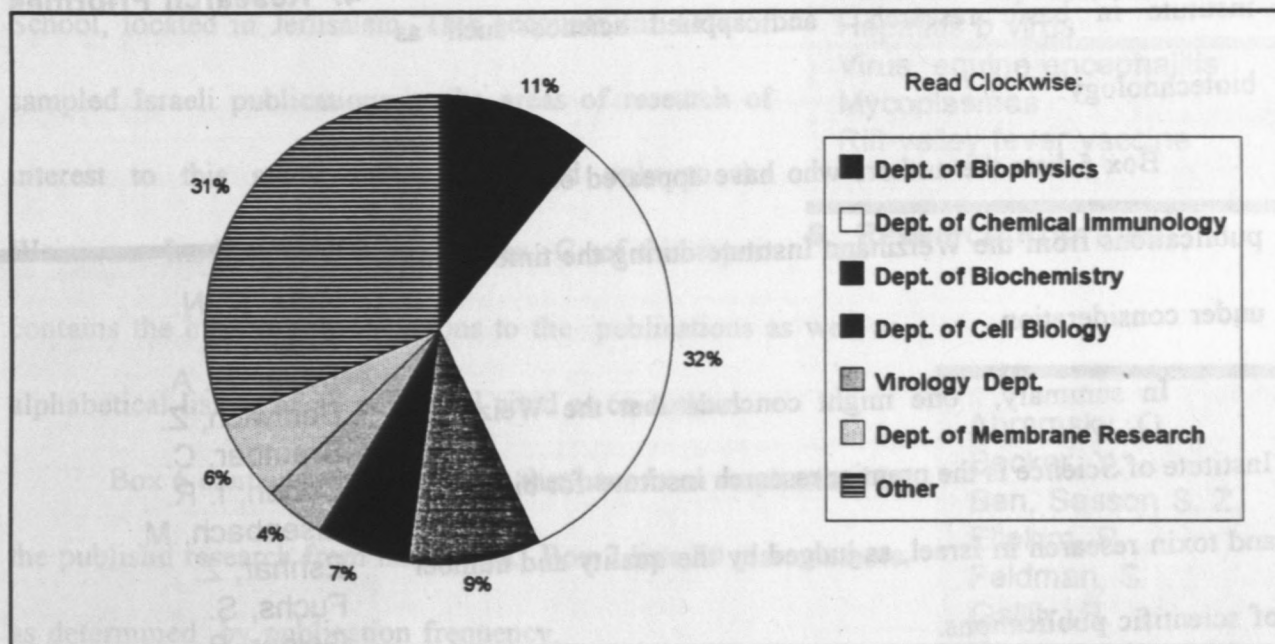


Figure 4. Weizmann Institute Publications from Scientific Databases

Figure 5 compares the publications from these departments. The Department of Chemical Immunology of the Weizmann Institute published 32% of the sampled publications from the Weizmann Institute between 1970 and 1992. The Department of Biophysics was second with 11% of the sampled publications. There is evidence for large and sophisticated programs in cell and molecular biology.



**Figure 5. Sampled Publications from the Departments of the Weizmann Institute**

Annex B of this report lists the 199 publications in alphabetical order published by the Weizmann Institute that were sampled by this study. Also shown in this annex are the authors identified in these publications.

Box 4 lists the apparent research priorities as determined by the emphasis of sampled publications. This is a world class institute in basic research and applied science such as biotechnology.

Box 5 lists the authors who have appeared on 5 or more publications from the Weizmann Institute during the time period under consideration.

In summary, one might conclude that the Weizmann Institute of Science is the premier research institute for biological and toxin research in Israel, as judged by the quality and number of scientific publications.

Biotechnology  
Interferon  
Immunology  
Neurotoxins  
Peptides

#### 4. Research Priorities

Apte, R. N.  
Arnon, R.  
Bayer, E. A.  
Bentwich, Z.  
Brautbar, C.  
Cohen, I. R.  
Eisenbach, M.  
Eshhar, Z.  
Fuchs, S.  
Geiger, B.  
Gromet, Elhanan Z.  
Kahana, Z. E.  
Katz, D.  
Lapidot, A.  
Mirelman, D.  
Mozes, E.  
Sela, M.  
Wilchek, M.  
Yavin, E.

#### 5. Main Authors

### 3.4 The Hebrew University-Hadassah Medical School

There were 139 sampled scientific papers that originated from the Hebrew University-Hadassah Medical School, located in Jerusalem. This accounts for 14% of sampled Israeli publications in the areas of research of interest to this study and was second only to the Weizmann Institute of Science. Annex C of this report

contains the bibliographic citations to the publications as well an alphabetical listing of all personnel cited as co-authors.

Box 6 contains research topics that have been emphasized in the published research from this centre. Box 7 lists 20 main authors as determined by publication frequency.

Research published in 1972 from the Hebrew University-Hadassah Medical School examined the immunological properties of viruses that are not indigenous health problems in Israel. These included Western and Eastern equine encephalomyelitis viruses.

More recent work described vaccine tests done in co-operation with the Israel Defense Forces. For example, in 1978 there were tests of influenza vaccine and in 1985, field tests of Rift-valley

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Bacterial toxins  
Bioregulatory peptides  
Fusarium mycotoxins  
Hepatitis b virus  
Virus, equine encephalitis  
Mycoplasmas  
Rift-valley fever vaccine

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### 6. Research Priorities

---

Abramsky, O.  
Becker, Y.  
Ben, Sasson S. Z.  
Eliakim, R.  
Feldman, S.  
Gallily, R.  
Ginsburg, I.  
Kahane, I.  
Kark, J. D.  
Laskov, R.  
Polliack, A.  
Rachmilewitz, D.  
Razin, E.  
Razin, S.  
Rottem, S.  
Shirvan, M. H.  
Slavin, S.  
Stein, O.  
Stein, Y.  
Yagen, B.

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### 7. Main Authors

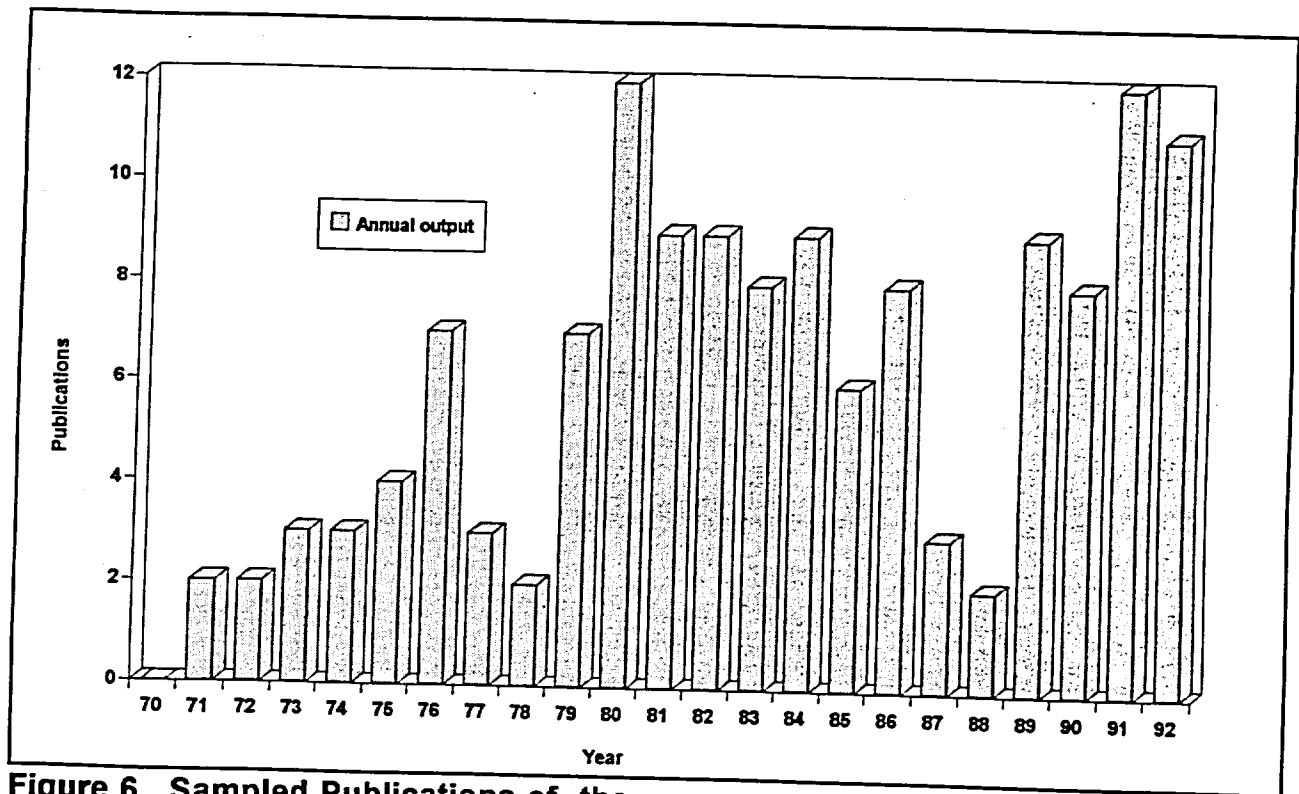


fever vaccine. Both of these latter viruses are considered to be indigenous health problems in the Middle East.

Research publications from the Hebrew University-Hadassah Medical School also described work done since 1970 on mycotoxins. The research focused on the mycotoxosis called alimentary toxic aleukia which was later shown to be primarily caused by T-2 mycotoxin. This work pre-dated the world-wide increase in research interest in mycotoxins in starting in 1981.

Figure 6 shows the time course of sampled publications from the Hebrew University-Hadassah Medical School.

In summary, the Hebrew University-Hadassah Medical School combines the basic and applied aspects of research and development related to biological and toxin experimentation.



**Figure 6. Sampled Publications of the Hebrew University-Hadassah Medical School**

### 3.5 George S. Wise Faculty of Life Sciences, Tel Aviv University

The George S. Wise Faculty of Life Sciences at Tel Aviv University, located in Tel Aviv, published 53 scientific papers sampled by this study. This is 6% of the sampled Israeli publications. Annex D of this report contains the bibliographic citations to the publications as well an alphabetical listing of all personnel cited as co-authors. Box 8

Antibiotic production  
Batrachotoxin  
Bioregulators  
Endothelin/sarafotoxin  
Toxins from venoms  
Vasopressin

### 8. Research Priorities

lists the apparent research priorities as suggested by the emphasis of sampled publications. Figure 7 shows the time course of the sampled publications.

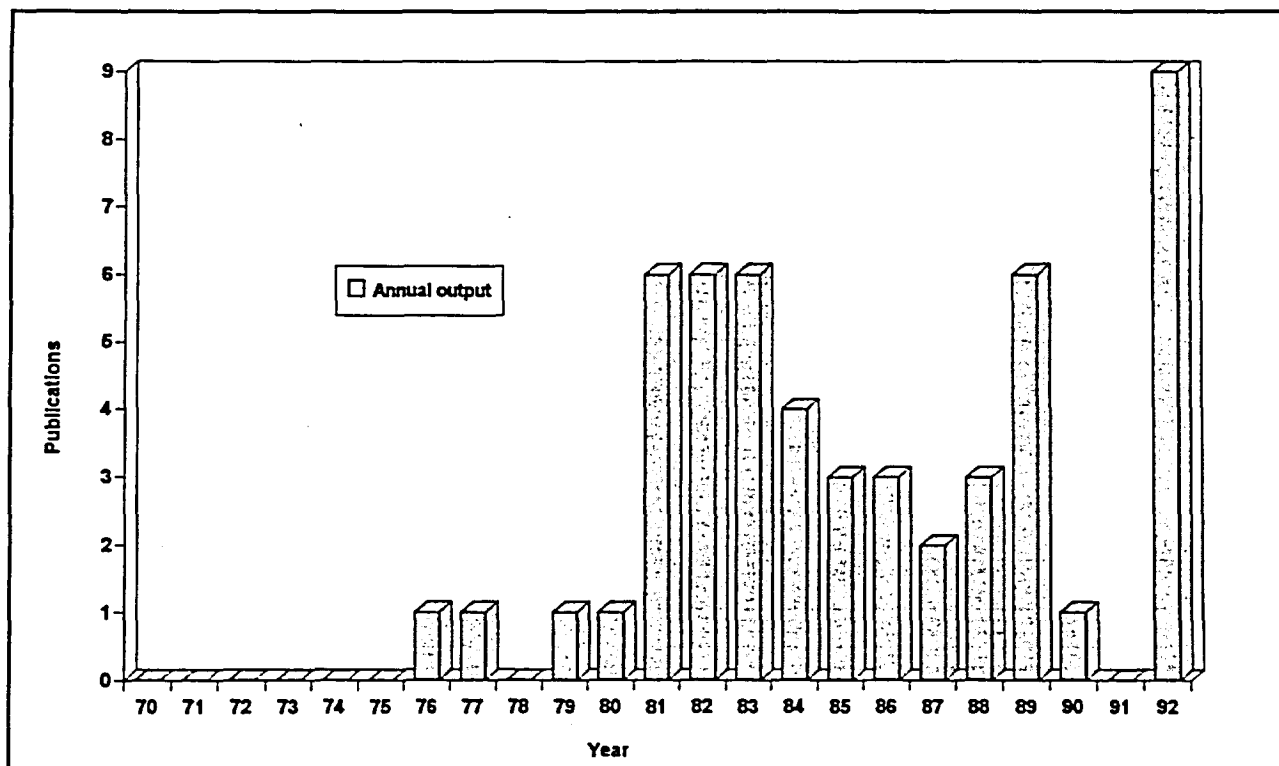


Figure 7. Sampled Publications of the George S. Wise Faculty of Life Sciences

The George S. Wise Faculty of Life Sciences is a world leader in studying certain toxins and bioregulatory peptides. It devotes a significant amount of resources to these problems. For example, 13% of the publications from this centre that were sampled dealt specifically with the toxin sarafotoxin and its close relationship to the bioregulator endothelin.

This centre also studied other toxins from venoms such as phospholipase A2 and purified toxins such as batrachotoxin. Most research focussed on basic science, that is how the toxins function at the molecular level. However, some research did examine more practical applications such as improving antibiotic production using molecular and recombinant DNA techniques.

Box 9 lists the main authors of the George S. Wise Faculty of Life Sciences at Tel Aviv University.

Aharonowitz, Y.  
Bdolah, A.  
Bouso, Mittler D.  
Cohen, Armon M.  
Gutnick, D.  
Harnik, M.  
Kloog, Y.  
Kochva, E.  
Oron, U.  
Ovadia, M.  
Rosenberg, E.  
Sneh, B.  
Sokolovsky, M.

#### 9. Main Authors

### 3.6 Ben-gurion University, Negev, Beer-Sheva

The Ben-gurion University, located in the Negev, Beer-Sheva, published 42 scientific papers sampled by this study. This is 4% of the sampled Israeli publications. Annex E of this report contains the bibliographic citations to the publications as well an alphabetical listing of all personnel cited as co-authors.

Boussiba, S.  
Friedman, M. G.  
Manor, E.  
Sarov, B.  
Sarov, I.

#### 10. Main Authors

Figure 8 shows the time course of the sampled publications.

Most publication activity sampled by this study occurred after 1980, with the period 1988 to 1990 peaking in output. Box 10 lists the main authors from Ben-gurion University.

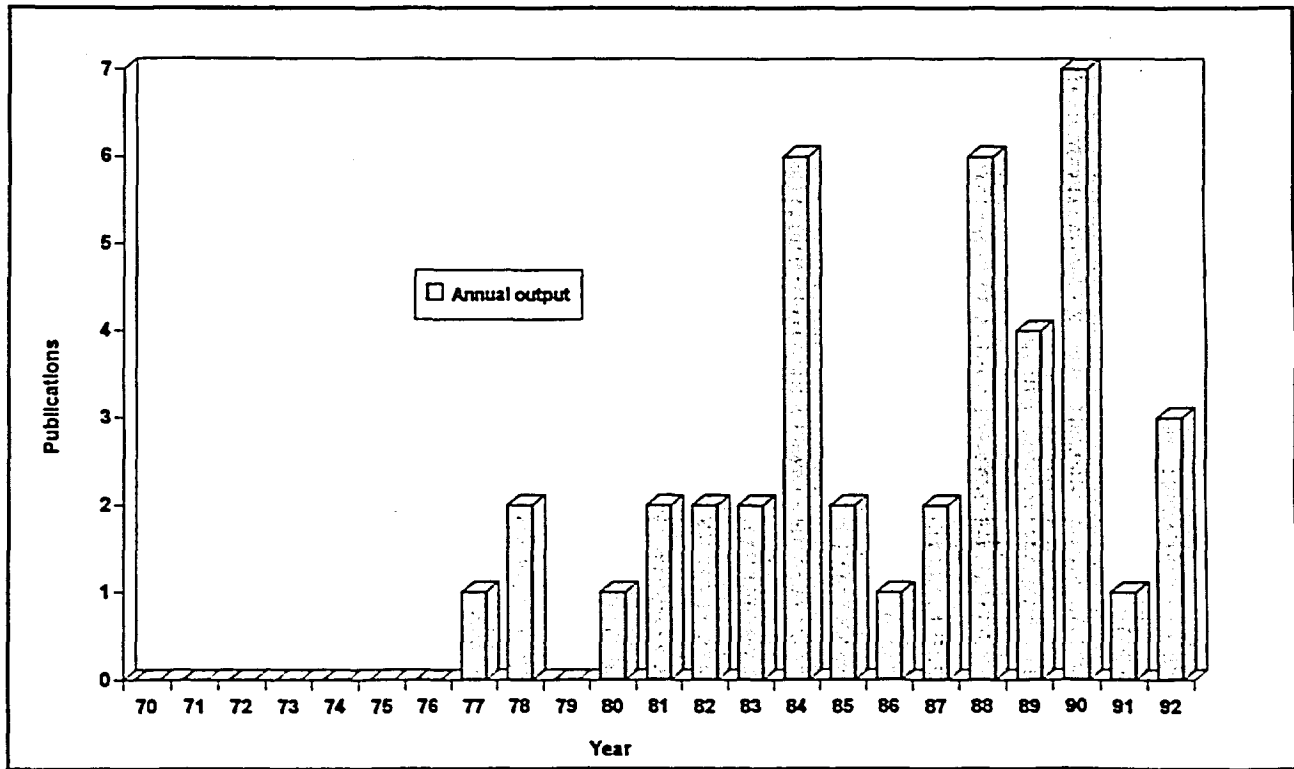


Figure 8. Sampled Publications of the Ben-gurion University

Box 11 lists the apparent research priorities as suggested by the emphasis of the sampled publications from Ben-gurion University.

Spotted fever group Rickettsia  
Parasitic diseases

## 11. Research Priorities

### 3.7 Israel Institute of Biological Research, Ness-Ziona

The Israel Institute of Biological Research, located in Ness-Ziona, Israel published 32 scientific papers sampled by this study. Although it did not publish the most papers of the Israeli centres, the importance of the research is rated as high. Box 12 lists the

Bioregulators  
Large scale production  
in biotechnology  
Legionnaires disease  
Pseudomonas-aeruginosa exotoxin  
Togavirus vaccines  
West-nile virus

## 12. Research Priorities

apparent research priorities as suggested by the emphasis of the sampled publications. Box 13 lists the main authors. Annex F of this report contains the bibliographic citations to the publications as well an alphabetical listing of all personnel cited as co-authors.

Epstein, N.  
Lazar, A.  
Lustig, S.  
Marcus, D.  
Mizrahi, A.  
Reuveny, S.  
Shafferman, A.  
Silberstein, L.

## 13. Main Authors

Other literature searches have shown that the Israel Institute of Biological Research has published research on the long-term study of brain lesions following exposure to soman, the effects of tabun and the production of recombinant human acetylcholinesterase in cell culture.

The preceding research suggests some efforts related to the defense against chemical warfare agents. This study found major research from this centre using sophisticated molecular techniques directed at large scale production of proteins and peptides. As well, the published research studied the molecular properties of viruses such as the West-Nile virus. This virus is a potential health problem in Israel.

Figure 9 shows the time course of the sampled publications from the Israel Institute of Biological Research.

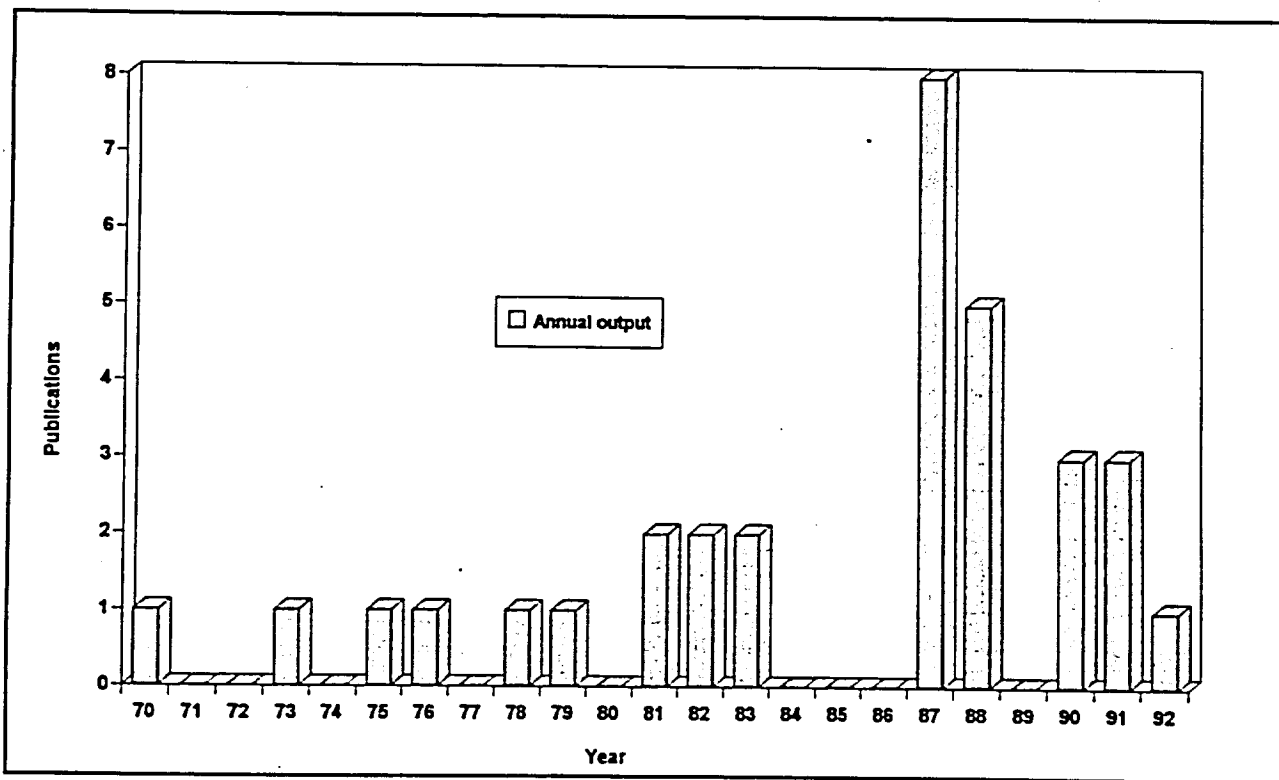


Figure 9. Sampled Publications of the Israel Institute of Biological Research

### 3.8 Faculty of Medicine, Technion

The Faculty of Medicine, Technion, located in Haifa, published 34 papers sampled by this study. Annex G of this report contains the bibliographic citations to the publications as well as an alphabetical listing of all personnel cited as co-authors.

Pseudomonas-aeruginosa  
Brucellosis  
Atrial Natriuretic Peptide

### 14. Research Priorities

Box 14 lists the apparent research priorities as suggested by the emphasis of the sampled publications from the Faculty of Medicine, Technion. Research on the bacterial disease brucellosis was carried out at this centre. This disease is endemic to the region. Figure 10 shows the time course of sampled publications from this research centre.

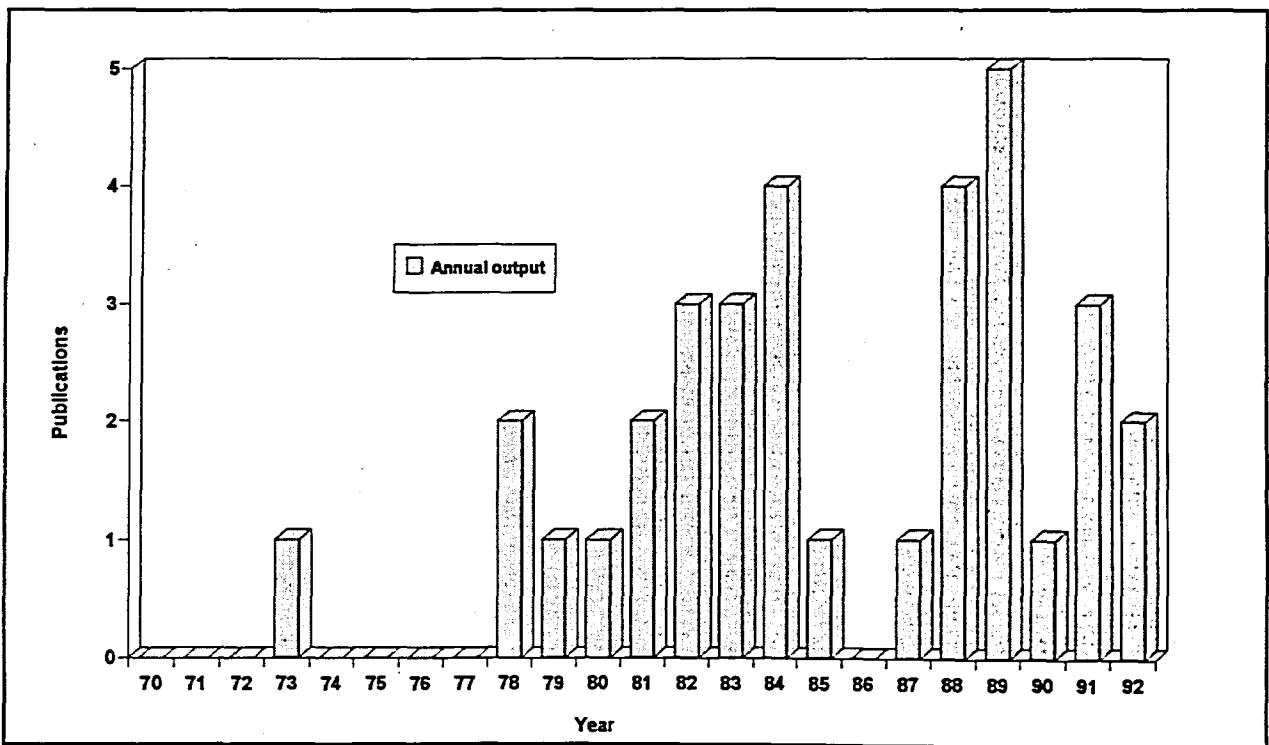


Figure 10. Sampled Publications from the Faculty of Medicine, Technion

Box 15 lists the main authors from the Faculty of Medicine, Technion. The Faculty of Medicine, Technion used modern techniques in cell and molecular biology and appears to be an above average centre for this type of research.

Etzioni, A.  
Haramati, A.  
Hoffman, A.  
Kott, Y.  
Merzbach, D.  
Ulitzur, S.  
Winaver, J.

#### 15. Main Authors

### 3.9 Medical Corps, Israel Defense Forces

The Medical Corps of the Israel Defense Forces published 23 papers sampled by this study. Annex 8 of this report contains the bibliographic citations to the publications as well an alphabetical listing of all personnel cited as co-authors.

Box 16 lists the main authors of the Medical Corps. Box 17 lists the research priorities in the publications of the Medical Corps. Some of this work was done in collaboration with Israeli researchers, while some of it such as the Rift-valley fever was done with international collaborators.

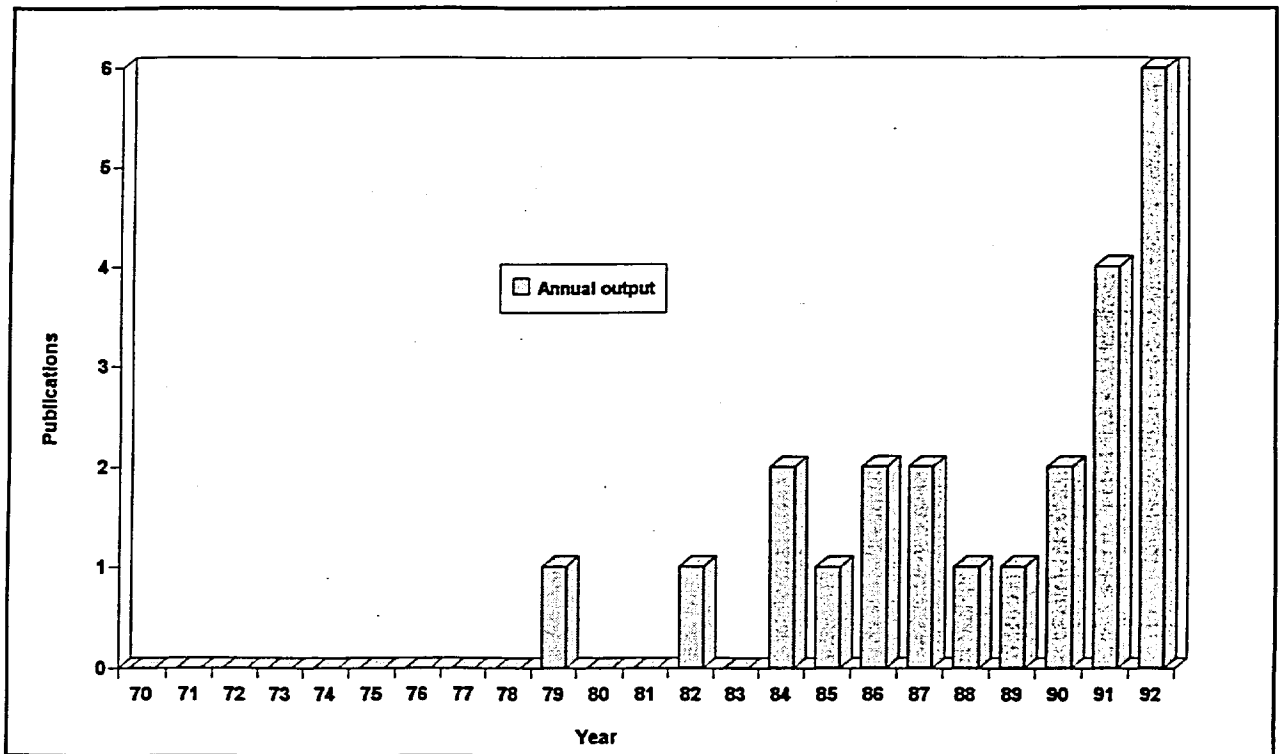
Bergner, Rabinowitz S.  
Block, C. S.  
Cohen, D.  
Ferne, M.  
Green, M. S.  
Rouach, T. M.  
Sechter, I.  
Slepon, R.

#### 16. Main Authors

Epidemiology  
Rift-valley fever vaccine  
Shigella-flexneri  
Shigella-sonnei

#### 17. Research Priorities





**Figure 11. Sampled Publications of the Medical Corps, Israel Defense Forces**

Figure 11 shows the time course of the publications sampled by this study.

### 3.10 Other Israeli Publications

This category contains sampled Israeli publications which did not originate from the major centres of research. Annex I of this report contains the bibliographic citations to these publications as well an alphabetical listing of all personnel cited as co-authors. Figure 12 shows the time course of sampled publications.

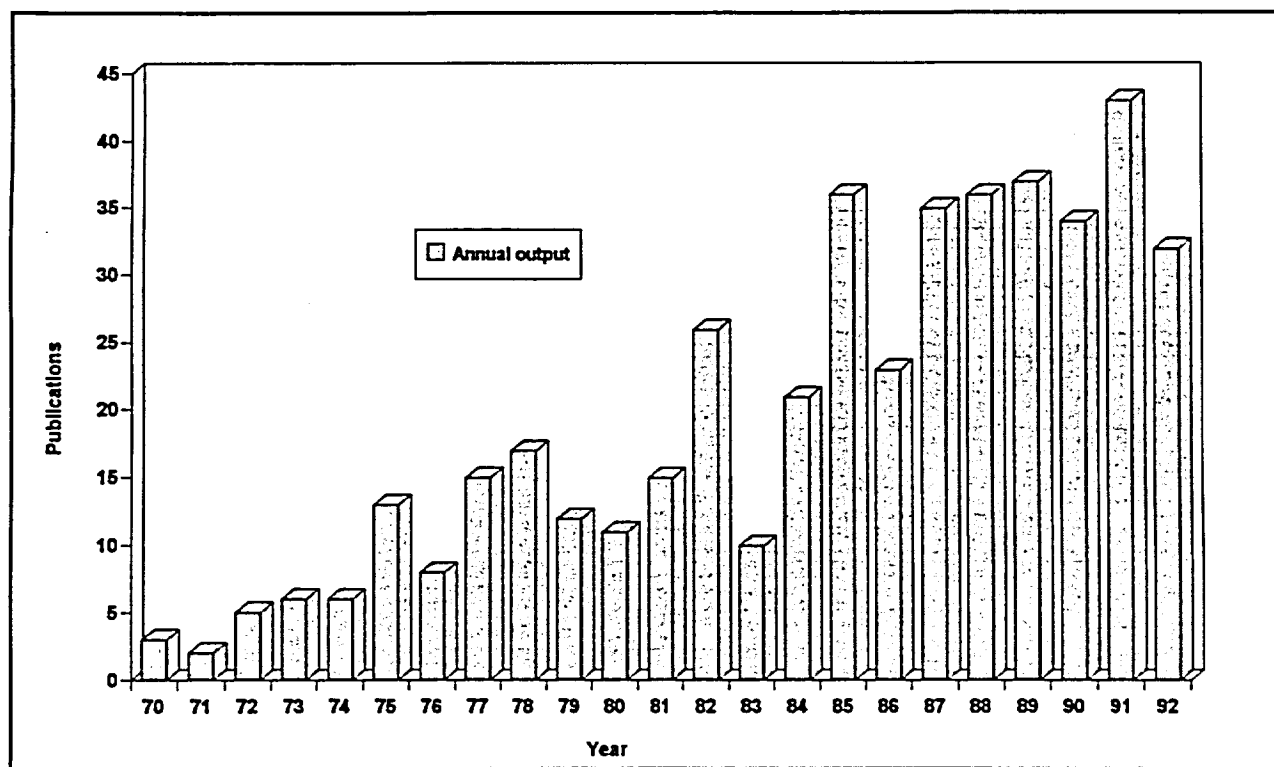


Figure 12. Sampled Publications from other Israeli research centres

#### 4.0 CONCLUDING REMARKS

This study has surveyed Israeli scientific publications dealing with biological and toxin research. In all databases examined, there were approximately 178,000 publications, including duplicate reporting, from Israel between 1970 and 1992. Using over 100 key-words related to biological and toxin research, 16,055 publications were selected from Israel. Since it was beyond the scope of this study to examine all these publications, a unique set of 962 publications ( 6% of the key-word selected publications) were sampled to survey Israeli research.

Two research centres, the Weizmann Institute of Science and the Hebrew University-Hadassah Medical School accounted for 35% of the sampled publications. Clearly, these are the most important research centres related to biological and toxin research.

The Weizmann Institute of Science is a world-class research centre publishing innovative basic research related to peptides, toxins, cell membrane function and immunology. The greater emphasis is on basic as opposed to applied research, as noted from the sampled publications. There is an affiliated biotechnology company called Bio-Yeda Ltd. which appears to commercialize biotechnical processes. This may reflect the attempt to provide more applied products from the basic research carried out at the Weizmann Institute.

The Hebrew University-Hadassah Medical School is a major centre of biological and toxin research in Israel. It appears to cover the basic and applied research that was sampled by this study more evenly than the Weizmann Institute. The Hebrew University-Hadassah Medical School published research detailing field tests of vaccines in collaboration with the Israel Defense

Forces, on diseases that represent potential health problems in Israel such as West Nile fever and influenza. It also published research on the immunological properties of Western and Eastern equine encephalomyelitis viruses which are not indigenous to the Middle East region. Also addressed is the virus responsible for Rift-valley fever, which is indigenous elsewhere in the region.

Also of interest is the research conducted at the Israel Institute for Biological Research. Although it did not publish as many key-word-selected papers as the Weizmann Institute or the Hebrew University-Hadassah Medical School, it clearly has a significant role in biological and toxin research in Israel.

## **Annex A**

### **Israeli Centres of Biological and Toxin Research**

Weizmann Institute of Science, Rehovot, Israel

The Hebrew University-Hadassah Medical School, Jerusalem, Israel

George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, Israel

Ben-gurion University, Negev, Beer-sheva, Israel

Israel Institute of Biological Research, Ness-Ziona, Israel

Faculty of Medicine, Technion, Haifa, Israel

Medical Corps, Israel Defense Forces, Israel

## **Annex B**

**Weizmann Institute of Science, Rehovot, Israel •**

This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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## **Annex C**

**The Hebrew University-Hadassah Medical School,  
Jerusalem, Israel**

This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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## **Annex D**

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This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.



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## **Annex E**

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This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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## **Annex F**

### **Israel Institute of Biological Research, Ness-Ziona, Israel**

This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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## **Annex G**

### **Faculty of Medicine, Technion, Haifa, Israel**

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## **Annex H**

### **Medical Corps, Israel Defense Forces, Israel**

This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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## **Annex I**

### **Other Israeli Publications**

This Annex contains two parts. The first part lists the sampled publications (in alphabetical order of the authors). The second part lists all the authors, in alphabetical order, of the publications listed in part one.

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