Faculty of Life Sciences – Department of Zoology, Department of Plant Sciences

Faculty of Medicine – Department of Anatomy and Anthropology

The National Collections of Natural History

Tel Aviv University

Annual Report 2006/2007

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TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

PROF. ZVI GALIL פרופ' צבי גליל
PRESIDENT נשיא

Foreword

Tel Aviv University's founding fathers and first generation of scientists were true visionaries, who at the time of rapid development of our young state took care to establish our natural history collections, the botanical gardens, and research zoological garden, and thus contributed to preserving the record of biodiversity of our region alongside live genetic materials, decades before it became cutting edge science and part and parcel of the international conventions and agreements to which Israel is party.

My own father, Prof. Yaakov Galil, was among TAU's founders and created three botanical gardens, his own memorial stands in the last one, at Ramat Aviv. It is a special privilege for me to ensure the national collections of their proper home. In the development of this significant project, we follow in the founders' footsteps and preserve their legacy: protecting and promoting Israel's environment and cementing TAU's leadership role in biodiversity research, conservation, and education.

The commitment to build a proper home for the collections and collections-based activities is nearly as old as TAU, but earnest progress began in the later years of Prof. Dinstein's term as president, and significant steps have been made during the term of my predecessor, Prof. Rabinovich. I am proud to continue the long and illustrious tradition of TAU's presidents, of commitment to Israel's natural heritage.

I am pleased that this important project occurs with the special and very significant support of the Planning and Grants Committee of the Higher Education of Israel (VATAT), and that of the Ministers of Environmental Protection, Agriculture and Rural Development, Tourism, and Science, Culture and Sports, and with the long lasting academic support of the Israel Academy of Sciences and Humanities. This coalition highlights the national significance of this project and heralds a new era when government responsibility joins university responsibility and tradition to produce a nationally significant project for the good of Israeli science, environment, and agriculture, and first and foremost – for the good of Israeli society.

Zv: Galil

President Zvi Galil

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TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

GEORGE S. WISE FACULTY OF LIFE SCIENCES
DEPARTMENT OF ZOOLOGY

הפקולטה למדעי החיים ע"ש ג'ורג' ס. וייז
המחלקה לזואולוגיה

December 30, 2007

Dear friends and colleagues,

We are pleased to present you with the fifth Annual Report of the National Collections of Natural History at Tel Aviv University.

The past year has been an exciting one. Following a report on the dire state of taxonomic research in Israel, and at the request of the Chair of the Steering Committee of the National Collections, Prof. Yehudith Birk, the Planning and Grants Committee of the Council of Higher Education of Israel has decided to earmark prestigious Bikura post-doctoral fellowships to taxonomy and systematics in the coming three years. The first applications are already in and we very much hope that this initiative will be a significant step towards saving this crucial field of research in Israel.

Finally, after a long and major effort, and with the active support of many friends from within and without the university, we are finally on the verge of establishing a proper building for the collections, research, and public activities. Several Israeli government ministries and the Planning and Grants Committee of the Council of Higher Education of Israel have decided to pool resources and to provide matching funds for those previously pledged by Michael and Judy Steinhardt of New York, by a private foundation, and by our founding father, Prof. Heinrich Mendelssohn. Our collections are currently maintained in extremely poor conditions that curb their development, hinder research, and endanger them and, in some cases, also endanger the staff. Needless to say, it is almost impossible to share them with the public under the current conditions. Therefore building a home for the collections and all collections-based activities has been a priority; we are happy to share with you news of our success and to thank our many supporters and friends – we are very fortunate to have all of you with us in this very exciting venture.

Tamar Dayan

Director, National Collections of Natural History

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Introduction

We are pleased to present the fifth in our series of Annual Reports of the National Collections of Natural History at Tel Aviv University. It details research, teaching, conservation, and public activities of the faculty and staff of the National Collections of Natural History at Tel Aviv University during the 2006/2007 academic year. Because we decided to wrap up our report in September this year, it is somewhat shorter in scope and covers only 9 months of activity. However, these have been very intensive months and significant progress has been made.

The National Collections of Natural History at Tel Aviv University provide an active, updated, and comprehensive record of the biodiversity of our region and a significant research infrastructure for scientists worldwide. The collections comprise millions of herbarium and natural history specimens that record the biodiversity of our region in the past century, as well as the evolution and history of humankind.

Because the State of Israel has no museum of natural history, nor are we aware of the existence of any such museum in the entire Middle East, our collections are of particular significance. Tel Aviv University has made a huge investment in them over the years, resulting in an important national level research infrastructure, crucial for biodiversity-based scientific research. Steady collection development is the fruit of the research of our active scientists and graduate students who study species on land, in freshwater, and in the sea. At the same time, the collections are also of immense cultural and educational value.

The former Chair of the Board of Governors of Tel Aviv University, Mr. Michael Steinhardt, has made a very generous pledge towards the development of a proper facility to house the National Collections of Natural History at Tel Aviv University and the research and public activities associated with them.

Another foundation has joined in and our own founding father, the late Prof. Mendelssohn, has left us a more modest sum in his will. We are very pleased to announce that the Ministry of Environmental Protection, the Ministry of Agriculture and Rural Development, and the Ministry of Tourism have decided to pool resources with the Planning and Grants Committee of the Council of Higher Education (VATAT) and thus to provide matching funds for these pledges and enable us, at long last, to build a proper home for the National Collections of Natural History at Tel Aviv University. Additionally, the Ministry of Science, Culture, and Sports has declared us a Knowledge Center and has decided to fund us accordingly, so we are facing the future with optimism.

Participating in this multidisciplinary project are members of the George S. Wise Faculty of Life Science (Departments of Zoology and Plant Sciences) and the Sackler Faculty of Medicine (Department of Anatomy and Anthropology); some of the laboratories of the Lester and Sally Entin Faculty of Humanities (the Sonia and Marco Nadler Institute of Archeology) are scheduled to join us when the new collections and research building is constructed.

Our collections are dedicated to the study and conservation of biological diversity through collecting, collection maintenance, research, teaching, and education. We are part of an active research university, the largest in Israel, and our mission focuses on collection development, scientific research, teaching, and training graduate students, dozens of whom use the collections for their research every year. However, our collections and staff also lend support to many agricultural, environmental, ecological, evolutionary, and conservation studies of scientists in various institutions of higher education in Israel and abroad as well as government ministries in Israel.

Tel Aviv University has a longstanding tradition of service to the Israeli school system. In line with this tradition, Tel Aviv University has established "Nature

Campus" - our education and public program whose activities take advantage of Tel Aviv University's unique research infrastructure, the I. Meier Segals Zoological Garden, the Botanic Gardens, and the teaching laboratories, and open the treasures of the National Collections of Natural History at Tel Aviv University to the public eye. More significantly, "Nature Campus" uses the unique knowledge and expertise of the faculty members of Tel Aviv University in the fields of ecology, biogeography, evolution, paleontology, conservation biology, behavior, and physiology to develop public and educational activities.

We also take pride also in our involvement in nature and environmental conservation and work hard to uphold a tradition of contributing to society based on our expertise in the study of nature, as well as in many other significant ways. Many members are very active in conservation and monitoring projects and on boards of public and environmental organizations. Our report lists some of these activities.

Here we share with you the progress made in the past academic year 2006/2007.

International Scientific Advisory Board

Vicki Buchsbaum, Pearse Institute of Marine Sciences, University of California, Santa Cruz, USA

Jared Diamond, Department of Physiology, University of California, Los Angeles Medical School, Los Angeles, CA, USA

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Peter Raven, Missouri Botanical Garden, St. Louis, MO, USA

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Arnon Lotem, Director of the I. Meier Segals Garden for Zoological Research

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Tamar Dayan, Department of Zoology, Faculty of Life Sciences

Israel Finkelstein, the Jacob M. Alkow Department of Archaeology and Ancient Near Eastern Cultures, Faculty of Humanities

Jonathan M. Gershoni, Head of the Department of Cell Research and Immunology, Faculty of Life Sciences

Yoav Gothilf, Department of Neurobiochemistry, Faculty of Life Sciences

Abraham Hefetz, Department of Zoology, Faculty of Life Sciences

Ayala Hochman, Department of Biochemistry, Faculty of Life Sciences

Arnon Lotem, Department of Zoology, Faculty of Life Sciences

Rafi Nachmias, Constantiner School of Education, Faculty of Humanities

Yoel Rak, Head of the Department of Anatomy and Anthropology, Faculty of Medicine

Eliora Ron, Molecular Microbiology and Biotechnology, Faculty of Life Sciences

Marcelo Sternberg, Department of Plant Sciences, Faculty of Life Sciences

Museum staff

Tamar Dayan	Department of Zoology	Director

Curators (TAU faculty members)

Yoram Yom-Tov	Department of Zoology	Higher Vertebrates
Yehuda Benayahu	Department of Zoology	Invertebrates
Amnon Freidberg	Department of Zoology	Entomology
Yehoshua Kugler (emeritus)	Department of Zoology	Entomology
Menachem Goren	Department of Zoology	Fishes
Lev Fishelson (emeritus)	Department of Zoology	Fishes
Dorothée Huchon	Department of Zoology	Molecular Systematics
Baruch Arensburg (emeritus)	Department of Anatomy & Anthropology	Physical Athropology
Yoel Rak	Department of Anatomy & Anthropology	Physical Athropology
Israel Hershkovitz	Department of Anatomy & Anthropology	Physical Athropology
Nissan Binyamini (emeritus)	Department of Plant Sciences	Fungi
Margalith Galun (emeritus)	Department of Plant Sciences	Lichens
Jacob Garty	Department of Plant Sciences	Lichens
Ya'akov Lipkin (emeritus)	Department of Plant Sciences	Algae

Curators (TAU faculty members; new immigrants in various absorption schemes)

Silvia Blumenfeld	Department of Plant Sciences	Fungi
Vladimir Chikatunov	Department of Zoology	Coleoptera
Vassily Kravchenko	Department of Zoology	Lepidoptera
Sergei Zonstein	Department of Zoology	Arachnidae
Andy Lehrer (emeritus)	Department of Zoology	Diptera
Yuri Katz (emeritus)	Department of Zoology	Paleontology
Olga Orlov-Labkovsky	Department of Zoology	Micropaleontology

Associate curators (faculty members)

Yossi Loya	Department of Zoology	Stony Corals
Micha Ilan	Department of Zoology	Sponges
Dan Gerling	Department of Zoology	Hymenoptera
Abraham Hefetz	Department of Zoology	Entomology
Bella S. Galil	Israel Oceanographic & Limnological Research - Haifa	Crustaceans
Danny Simon	Department of Zoology	Formicidae
Ilan Yarom	Hazeva Research & Development	Diptera
Eli Geffen	Department of Zoology	Molecular Systematics
Ofer Mokady	Department of Zoology	Molecular Systematics
Elazar Kochva (emeritus)	Department of Zoology	Herpetology

Technical assistants (assistant curators, collection managers, technicians, taxidermist)

Ann Belinsky	Department of Zoology
Revital Ben-David-Zaslow, PhD	Department of Zoology
Avigail Ben-Dov	Department of Zoology
Vered Eshed, PhD	Department of Anatomy & Anthropology
Tova Feller	Department of Zoology
Leonid Friedman	Department of Zoology
Igor Gavrilov	Department of Zoology
Ermin Ionescu, PhD	Department of Zoology
Henk Mienis	Department of Zoology
Reuven Landsman	Department of Zoology
Tzilla Shariv	Department of Zoology
Nili Shinnar	Department of Zoology
Alex Shlagman	Department of Zoology
Tirza Stern	Department of Zoology
Chemda Zigman	Department of Zoology

'Nature Campus'

Yael Gavrieli, PhD	Director
Anat Feldman	Content Development
Shiri Shnieor	Public Programs Coordinator

Public programs - Nature Campus

Nature Campus continued in its activities to advance communication of science about the natural history and living environment of Israel to children, teachers, nature guides, and the general public. In some programs, natural history collections play a key role, while in other programs artifacts such as skulls, bones, nests, eggs, live insects and stuffed animals are integrated into the learning experience.

Programs based on the natural history collections:

Public programs:

- Guided Tours. The program offers a two hour activity at the I. Meier Segals Garden for Zoological Research or the Botanic Gardens. During 2006/2007, the Gardens played host to 5200 visitors comprised of groups of schoolchildren ages 6-18, teachers, nature guides, students from other institutions of higher education, and other organized groups.

- Science Days. The program offers a three to four-hour activity for classes at the Natural History Collections (the "Museum Class") as well as at the Gardens. Most of the activity at the collections is based on the collection's artifacts. The themes that are covered are diverse and include, among others, Marine Biology, Nature Conservation, Biodiversity, Reproduction in Nature, Plants and Their Environment, Predators and Prey, Evolution of Man, Adaptation, and Ecology of Temporary Winter Pools. The number of participants in these programs was 2300 children.

- Urban Nature. Inner city children are estranged from nature and usually do not see the rich living world that surrounds them – in the schoolyard, in city parks and even inside their schools and homes. In this semester-long program, classes meet weekly to study various issues, for example the insects, birds and plants in the school environs, the interaction between

them, and ecosystem they comprise. We also bring the children to the University for activities at the Zoological and Botanic Gardens. During 2006/2007 the program operated in cooperation with the Price-Brodie Initiative. 250 children from the community of Yafo participated in this semester long program.

- Science Camps. Science camps were being held during the Hannukah, Passover and summer school vacations. The camp, a 5 days program, offers a scientific exploration of the biosphere for primary school children. Each day is focused on a major phenomenon or process in the living world, for example the food web, behavior and communication, and adaptation. This year we were not allowed to market the program to TAU staff by TAU e-mail network, our main audience and avenue of marketing. Therefore, only 116 children participated

- Professional Development and Training Days. Diverse training programs offer conservation biology enrichment for teachers and environmental organizations staff. The professional training program is tailored according to the participants' requirements. This year 210 professionals, including teachers, participated in our in-service training programs.

Overall, participation in Nature Campus programs grew 13% compared to 2005/2006.

On-Line resources

Since the Collections capacity for public visitation is much limited, we put special effort in developing Nature Campus website – www.campusteva.tau.ac.il – which outreaches to the public, and offers, in a language understandable to all, the wealth of scientific research based on the Natural History Collections (Learning resources section).

- Zoo On-Line is a joint project with TAU I. Meier Segals Garden for Zoological Research. 6-8 cameras are continuously broadcasting from the Zoo. The pictures are accompanied with information, updated by Nature Campus webmaster, on the Zoo inhabitants. The project is supported by Israel Electric Company and Moked Amon Security Company.

Earthweb: our changing world. An online primer. During 2007 we have launched a new website – www.earthweb.tau.ac.il . The website – an online primer, offers information in Hebrew about the Earth systems, ecosystem services and highlight from status reports worldwide. The website was developed with the kind support of the Ministry of Environmental Protection and the Charles and Lynn Schusterman Family Foundation Additional to being an open website it will also serve in the coming year as a foundation for youth competitions on sustainable development (developed with the Ministries of Education and of Environmental Protection.

Progress at the natural history collections

Natural history collections are dynamic archives that record biodiversity. As such, they grow annually by new collecting activities and by incorporating smaller private or institutional collections. The collecting activities comprise focused collecting expeditions as well as by the products of numerous field studies carried out by scientists and their graduate students. Moreover, the Israel Nature and Parks Authority rangers collect vertebrate carcasses for the collections. Collecting, incorporating the collections, preserving and digitizing them, as well as managing the collections, the data, and the network of collectors and colleagues, is a formidable job that falls upon the shoulders of the curators, and, even more so, on those of the collections managers, technical assistants, and taxidermist. We are fortunate to have a group of active, knowledgeable, and dedicated technical staff members, who do their best, in the nearly impossible physical conditions and under-staffing, to preserve and expand this priceless record of biodiversity, and to help promote scientific biodiversity research. Their work is highly specialized, their knowledge priceless; almost all have academic degrees, most have either a PhD or an MSc, and all are the crucial backbone of the national collections of natural history at Tel Aviv University.

Our overworked collections managers have also produced this report, and we are particularly grateful to the work of Dr. Revital Ben-David-Zaslow in compiling it. Here they also report a little about the behind-the-scenes of managing the collections: collections news, collecting trips and expeditions, and new collections are reported here in a nutshell.

Collections news – A word from our collection managers

Throughout the past year the staff members of the TAU Natural History Collections have continued their day-to-day activities. As in previous years, we have put much effort into advancing our goals. We continue to collect and preserve new scientific materials, rescue and incorporate important private and historical collections, maintain the existing collections, ship scientific material and data to those requesting them, and assist graduate students, academic courses, and "Nature Campus" activities.

A document to assist the policy on biodiversity in Israel is being prepared by Prof. U. Safriel and S. Ashkenazi from the Hebrew University for the Ministry of Environmental Protection. The report is based on data of the Natural History Collections of Israel. The TAU Natural History Collections comprise over 135,000 computerized items (not including about 2,000,000 insects that are not yet digitized). About 78% of these items were collected in Israel and the surrounding areas. About 25,000 species are represented in our collection, of which over 60% were collected in Israel and the surrounding areas.

As noted in our previous report, one of our main goals has been to overcome the damage resulting from a 3-year outbreak of mold. Due to this outbreak, most of the jars, shelves, covers and walls became covered with mold. We have almost completed individually cleaning every jar and shelf of the collections and replacing all plastic covers. The work is demanding and tiring, but essential in order to save the collections from irreparable damage.

During the academic year 2005/2006 we received and incorporated many specimens from various taxonomic groups, collected worldwide by the collection curators and staff, students, rangers from the Israel Nature and Parks Authority, and others. As we reported previously, the reptile collection is now active and almost 50 new records were added this past year. Most of these were collected by graduate students during their field work.

Part of the dry vertebrate collection was moved to the new specimen cabinets purchased with the support of VATAT funds. Some 250 new specimens have been preserved and added to the mammal collection and about 25 to the bird collection. These include specimens collected by rangers from the Israel Nature and Parks Authority and transferred to Tel Aviv University where they are labeled and preserved by a professional taxidermist. They are then either incorporated into the appropriate scientific collection or transferred to the teaching collection of "Nature Campus".

As we reported previously (see the 2004/2005 Annual Report), the amphibian collection is now active again and digitized data are available. About 20 new specimens have been added to it. This might seem a small number but they are all from new collections made this year, in comparison to the previous year during which no new collections were made.

We routinely go through the collections, clean the jars, replace the labels and digitize the data. This year we started to work on the fish collection. To date more than 1,000 items belonging to 55 families have been handled. In addition, about 120 new records were added to the fish collection.

The collections made by Prof. Bella Galil at various stations in the Mediterranean (see below: Collection trips) have been sorted, preserved, and digitized for future research and identification. The material includes fishes, crustaceans, mollusks and other invertebrates. Other than those collection trips, there are almost no new data available on the macro-fauna of the Mediterranean, especially of deep-water. These data constituted the basis for a unique collaboration on invasive species of crustaceans among researchers from Israel, Tunis and Libya. The results were published by the British journal JMBA2 Biodiversity Records (see below: Publications).

The collections made by Prof. Yehuda Benayahu have also been processed. They contain soft corals, sea anemones, sponges, tunicates, nudibranchs, and

other invertebrates. As a routine procedure, tissue samples for molecular analysis were taken from most of the soft coral specimens and preserved. Almost 600 new specimens of soft corals were added this year.

The stony coral collection was cleaned and a special effort was made to absorb the collection of the Dr. Jacob Dafni (see the 2003/2004 Annual Report). Some 200 items, collected mostly from the northern part of Elat during the years 2002-2003, and partly in the 1980s, have been catalogued. This collection constitutes one of the most important private collections related to the Red Sea. Each coral has its collection details and photographs taken after cleaning. The collection gives us an opportunity to study the unique fauna of the disturbed coral reefs of Elat.

Everyday work on the insect collection includes the absorption and integration of donated collections; labeling and sorting of specimens from collecting trips; identification of and research on select groups (including over 25 shipments of scientific specimens to specialists, mostly overseas, during 2006); and preservation activities, such as renewal of naphthalene. Special treatment is required in cases of damage caused by mold and pests. As in the past years, we have continued digitizing this collection. Newly-caught insects are immediately given a catalog number and digitized. During the current year about 5,000 new insects were added to the collection. Prof. Dan Gerling collected groups of whiteflies from his collecting trip to Ethiopia and Uganda. These include some *Aleurolobus* species as well as material that is still being identified. A new species of Tetraleurodes was discovered on wild sugar cane (*Saccharis avenae*) in Israel. It is probably new to science. Vladimir Chikatunov performed a huge work of identification on a beetle collection from pitfall traps and malaise traps from various projects and areas (southern Arava and southern Jordan, Mt. Carmel, Nizzanim, Adullam, Avedat and Lehavim, the coastal plain, Nahal Shaharut, the Jordan Valley and others). There is a close working relationship between the "Plant Protection and Inspection Services" (PPIS, Ministry of

Agriculture) and the insect and arthropod staff. As in previous years, the collection staff made identifications work and guided the PPIS members. Vasiliy Kravchenko traveled to the Hungarian Natural History Museum in Budapest, which maintains probably the best collection of Noctuidae (Lepidoptera) in Europe. A number of deserticolous species of Israeli Noctuidae were identified and a joint publication on a new species of the genus *Odontelia* from the Arava valley was prepared. Kravchenko also traveled to Ethiopia to take part in a project of the Ambo Plant Protection Research Center (PPRC) and Ethio-Russian Biological Expedition (JERBE) – the biodiversity of Lepidoptera in Ethiopia.

We have also started to work on the isopod and other terrestrial invertebrate collection of Prof. Michael R. Warburg. It was started in 1960 and contains thousands of items, collected from various places in Israel and abroad. We have already absorbed all the insects and other arthropods, and are now in the process of sorting the isopods and studying the taxonomy of the group. Each isopod specimen is supplied with full collection data and in part identified to species level. This collection gives us an opportunity to study the unique fauna of the Isopods of Israel.

We continue our fruitful cooperation with Tel Aviv University students collecting samples in the field. Collections made by students are immediately digitized in order to facilitate the easy transfer of specimens to the museum in the near future. Cooperation between students and the collections staff is excellent. We give the students support in all fields including preservation, identification, labeling and cataloguing. Tirza Stern has developed a unique data base for this purpose and continues to work with the students, adjusting it to their specific needs. The students of Prof. Avital Gasith have already transferred to the National Collections more than 4,000 items (1,000 from this year alone), consisting of freshwater invertebrates caught in various rivers in Israel. The students of Prof. Tamar Dayan have transferred to the museum a

very large collection of mammals, amphibians, reptiles and arthropods caught in pitfall traps. The vertebrates among them have been preserved, identified, digitized and labeled; the invertebrates have been preserved and sorted for future identification. An additional collaboration is being conducted with the laboratory of Dr. Yael Mandelik from the Faculty of Agricultural, Food and Environmental Quality Sciences. The research engages with biodiversity and ecosystem services in the arid agro-natural landscape of the Arava Rift Valley, across the Jordanian-Israeli border. Focusing on the pollinator guild, specifically bees, and the pollination services they provide to crops and wild plants. They collect wild and managed bees (Bombus and honey bees), using netting and pan traps (plates filled with soapy water). The museum staff are directing their research, teaching them how to identify the insects and how to conduct a collection. All the Hymenoptera in this research are properly labeled and have a museum catalog number. At the end of the study the items will be transferred to our collections.

Progress Report for the Mollusc Collection 2006-2007

Henk K. Mienis and Revital Ben-David-Zaslow

During the past academic year we continued the revision and incorporation of the collection of the late Kalman Hertz (received in 2006) into the general mollusk collection. At the same time similar samples present in the former private collections of Derk A. Visker (received in the early 70's) and Haim (Vittal) Treves (received in 1999) were revised and transferred to the systematically arranged general collection. The identifications were carried out by Henk Mienis, while Revital Ben-David Zaslow took care of the computerization of the material. At the moment 38,617 samples representing 4774 taxa in the mollusk collection have been completely digitized.

New acquisitions

New material continued to arrive in the collection. All the samples were immediately identified and prepared for permanent storage in the collection. Dr. Michael Fainzilber of the Weizmann Institute donated the first two boxes of his extensive private collection of world-wide marine mollusks to the Museum. Among the mollusks confiscated by Itai Siplovich of the Iarael Nature and National Parks Protection Authority from fishermen operating illegally in the Akhziv-Rosh HaNiqra area were some fine specimens of the squid *Sepioteuthis lessoniana*. They form the first preserved specimens of this Lessepsian migrant, caught along the Mediterranean coast of Israel, in the collection.

During the academic year 2006/2007 new material has been received from the following persons:

Name	Brief description of the material
M. Fainzilber	Marine mollusks world-wide
B. Galil	Marine mollusks from the Eastern-Mediterranean
P. Gephart	Land- and freshwater mollusks (recent and fossil) from Hawaii
M. Keppens	Land- and freshwater mollusks from Belgium and marine mollusks world-wide
H.H. Kool	Nassariidae type material from Reunion
H.K. Mienis	Land-, freshwater- and marine mollusks mainly from Israel, the Netherlands and world-wide
P. Mifsud	Marine mollusks from Malta
Sh. Moran	Land- and freshwater mollusks intercepted by inspectors of the Plant Protection and Inspection Services, Ministry of Agriculture
A. Oktener	Freshwater mollusks from Turkey
T. Oren	Land snails from Israel
R. Ortal	Freshwater mollusks from Italy

D. Rotem	Land snails from Israel
E. Sheffer	Marine mollusks from the Mediterranean coast of Israel
Y. Sinai	Land snails from Israel
B.S. Singer	Arcoidea from the Red Sea
I. Siplovich	Marine mollusks from the Akhziv-Rosh HaNiqra Nature Reserve and National Park
M.R Warburg	Land snails from Israel

Type material

Two paratypes of *Nassarius jeanmartini* Kool & Dekker, 2006 described from Réunion Island were received from Mr. Hugo H. Kool (the Netherlands).

Material sent on loan

All the samples belonging to the gastropod families Ovulidae and Eratoidae have been sent on loan to Dirk Fehse (Germany) and Josef Grego (Slovakia) in support of their revision of these families on a world-wide scope.

Fossil specimens of the family Rostellariidae from the collections of H. Bytinski-Salz and D.A. Visker have been sent on loan for identification to A. Burger (the Netherlands), a specialist of this group of Strombid gastropods.

Mollusc conservation

In the winter of 2005/6 some 250 living snails of the Pagoda snail *Xerocrassa davidiana picardi*, a highly endangered land snail, were released on a kurkar outcrop in the Botanical Garden of the Tel Aviv University, Ramat Aviv. These snails had been collected on the so-called "Givat HaAntennot" in Givatayim, the last remaining locality of this endemic species in Israel (see the Annual report for 2005/2006 pp. 30-31).

A check of the kurkar outcrop in the Botanical Garden, during several rainy days in January, February and March 2007, turned into a rather disappointing event. We failed to locate a single live specimen! On the other hand, only one

empty shell was found at a distances of about 5 meters from the spot where the snails had been released. We have no idea what has happened with the other 249 specimens.

In our opinion it is still too early to call our effort to establish a better protected colony of the Pagoda snail in the Botanical Garden a complete failure. An effort by Uri Bar-Ze'ev, one of the initiators of the project, to collect additional living specimens on the hill in Givatayim for further release in the Botanical Garden remained unsuccessful too. In spite of the fact that he looked for these snails on a rainy day, only a single live specimen was observed.

In the winter of 2007/2008 we will carry out another evaluation of both sites in Givatayim and the Botanical Garden of the University in Ramat Aviv.

Progress Report for the Fungi Collection 2006/2007

Project: Biodiversity and Conservation of Higher Basidiomycetes in Israel

Dr. Silvia Blumenfeld

During this year we have focused on the research topics listed below

Study of biodiversity of higher basidiomycetes in Israel

Toxic Mushrooms. Toxic mushrooms are of great interest not only from the taxonomic point of view, but also for public safety and health. Using the material in the collection we have identified the types of toxins in the local species and their mode of action. We have records of 34 toxic mushrooms which are distributed all over the country.

Herbarium collection. During this year we also worked on ecological features of the wood-rotting fungi from the mushroom collection at TAU. New samples were taken from the irrigated plots in the Botanical Garden of Tel Aviv University. From the following field trips: Carmel (Bet Oren), Upper Galilee

(Baram Forest), Golan (Masada), Negev (Yotvata) and Binyamina (Park Hanadiv), we collected 58 mushrooms species belonging to six families of Aphyllophorales, now been added to the TAU mushroom collection. We also took samples of wood rots in order to establish the type of rot (white fibrous rot or brown cubical rot) that the mushrooms cause, using chemotaxonomical tests, employing the methodology that I developed in the past.

Collaboration and Consultation services

- We have assisted Dr. Shoshana Ashkenazi, Department of Evolution, Systematics & Ecology, The Hebrew University, Jerusalem, in the identification of fossil fungi at her archeological research site in the Upper Jordan Valley. The identifications were further corroborated by Prof. Thomas N. Taylor, Dept. of Ecology and Evolutionary Biology, Kansas University, USA, who is a world authority on fungal paleobotany.
- We have collaborated with Prof. Yoav Waisel of the Department of Plant Sciences, TAU, in a study of soil fungi in an experimental plot at Yotvata. The experiment comprised three genotypes of Tamarix and one species of Acacia, irrigated with salt water and with treated sewage water.
- Identifications have been carried out of several species of soil fungi of the following genera – Alternaria, Aspergillus, Cladospoprium, Penicillium, and Phoma. Marked differences were found in the concentration of fungal spores between the different plants and the two irrigation treatments.
- A joint project has been started with Dr. Marcelo Sternberg of the Department of Plant Sciences, TAU, to develop a method for evaluating pine wood chip decomposition by fungi. The aim of the project is to assess the recycling of material in planted forests, where cut down trees are shredded into small wood chips that are then spread over the ground.

This is especially important in the reclamation of burnt forests that have had to be cut down.

- Identifications of several species of fungi have been carried out at the request of visitors to the Botanical Gardens and and members of the Faculty of Life Sciences.

Fungal culture collection

Last year we affiliated the collection to the World Federation of Culture Collections (WFCC), and to the World Directory of Collections of Culture of Microorganisms (WDCM), which holds the world database of microorganisms. At present we have records of 216 species and 38 genera.

Wood-rotting fungi

We have continued screening enzymes of the wood-rotting fungi, using the familiar culture methods in mycology. According to the TAU fungal database (3812 specimens) there are records of 87 species of wood-rotting fungi belonging to 50 genera. New strains of 18 species were incorporated into the TAU fungal culture collection. For each species we have made a detailed cultural study that will serve as a basis for comparative identifications in the future.

Medicinal mushrooms

During this year we have made an important work on medicinal mushrooms. We have checked all the pertinent bibliography and all the international patents. On the basis of our knowledge and expertise, now we are ready to present a patent on the antiviral fraction of aqueous extracts of 2 species of our fungal culture collection. We have developed a new extraction and purification method for polysaccharides, which is more efficient and cheaper that the methods usually used. Our method provides a novel process to obtain pharmaceutically active fractions from the fungi.

Collecting trips and expeditions

A dynamic archive, our natural history collections grow annually through donations, research projects, and collecting trips and expeditions. Many research projects add numerous specimens to our collections; other collections benefit from focused collecting trips. Here we report some of the new collecting activities of our scientists.

Collecting trips of the Entomology

Ariel-Leib-Leonid Friedman

During the year 2007, upon the request of the Israeli Nature and Parks Authority, three field samplings were performed. These samplings are a part of a research effort, designed to aid in planning the outline of the Separation Wall. The samplings took place in three separate nature reserves, amidst which the wall is planned to go through: Nahal Perat Nature Reserve (Wadi Qilt) by Kefar Adumim (27.02.2007), Ya'ar Rehan Nature Reserve by Um-El-Fahem (10.04.2007) and Nahal Qana Nature Reserve in the western Shomeron area (9.07.2007).

In the framework of these samplings, we collected and recorded several rare species of Diptera, Homoptera, Formicidae and Coleoptera. One species of Curculionidae, (*Chiloneus* sp.), found on the southern slope in the lower part of Nahal Perat, may be a new species to Israel and perhaps a new record for science.

Benthic biodiversity surveys off the Mediterranean coast of Israel

Bella S. Galil

In 2007 eight campaigns have been conducted off the Mediterranean coast of Israel to sample the benthic biota. Bella Galil, Mel Cooper, Limor shoval, Sima Usvyatzov, and Guy Paz participated in the cruises that took place aboard the R/V Shikmona and Etziona of the National Oceanographic Institute, IOLR. The

surveys were conducted as part of baseline studies or monitoring surveys (off **Palmahim**, 05.2007, 37m depth, box core and trawl samples; 05.2007, 60-64 m depth, box core and trawl samples; off **Ashdod**, 05.2007, 12 m depth, box core samples; 05.2007, 12 m depth, box core samples; off the coastal streams, 08.2007, 7-15 m depth, grab samples). The macrofaunal samples – several hundred specimens – include rare records to the Israeli coast.

The material is sent for safekeeping in the Zoological Museum, Department of Zoology, Tel Aviv University, Israel

New collections

The Paleontological Collection of Dr. Yael Chalifa (1940-2006)

Henk K. Mienis

In the spring of 2007 the National Collections of Natural History received a small but interesting collection of about 120 paleontological objects and a large number of books from the legacy of the late Dr. Yael Chalifa. The material was donated to the Tel Aviv University by Dr. Chalifa's husband Mr. Avraham Chalifa (Jerusalem).

The paleontological collection contains a variety of fossil plants and animals (mainly fishes, mollusks, brachiopods and insects) from Israel (among others from HaMakhtesh HaGadol, Makhtesh Ramon and Nahal Tavor), Canada, Brazil and several European countries.

Yael was born as Yael Ben-Shem in Tel Aviv in 1940. Following her marriage to Avraham Chalifa, a building engineer, they moved to Jerusalem, where they raised a family of three daughters and two sons. Only after her youngest child had started kindergarten did Yael begin her studies at the Hebrew University of Jerusalem. Both her M.Sc. thesis (1980) on "The anatomy, systematic position and evolutionary level of *Pachyamia latimaxillaris* n. gen, n. sp. (Holostei, Amiidae), from the Lower Cenomanian of Ein-Yabrud (Ramallah area)", and her Ph.D. dissertation (1986) on "The systematic position, phylogeny and ecological relationships of the Enchodontiformes n. order, from the Lower Cenomanian of Ein-Yabrud (Ramallah)", were carried out under the supervision of Prof. Eitan Tchernov. Yael also received much help for her M.Sc. thesis from Prof. Georg Haas.

Her post-doctoral studied were carried out at the University of Alberta, Canada, under the supervision of Prof. Mark Wilson, a noted paleontologist. Upon her return to Jerusalem, Yael had to cope with the deep disappointment of not

receiving a promised position in the paleontological collections of the Hebrew University.

In spite of her excellent studies on the Cretaceous fish fauna of Ein Yabrud, published in such highly esteemed scientific journals as *Paleontology*, *Journal of Paleontology* and *Journal of Vertebrate Paleontology* her grant proposals for further research received little funding.

Yael was thus forced to look in other directions in order to apply of her expertise in paleontology. Eventually she organized a series of lectures on geology and paleontology including field trips for the Avshalom Institute in Tel Aviv. Sadly, all her efforts were cut short when she was struck down by illness. By the time she was diagnosed with cancer, it was already too late. Yael died in the night on 8 January 2006.

With the death of Yael we have lost our foremost specialist in the field of fossil fish taxonomy in Israel. Her nine publications, containing descriptions of five new genera and eight new species, and her paleontological collection and library, now housed in the National Collections of Natural History at Tel Aviv University, will form a permanent tribute to a far too underrated scientist.

Publications (in chronological order)

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02. Chalifa, Y., 1985. Saurorhamphus judeaensis (Salmoniformes: Enchodontidae), a new longirostrine fish from the Cretaceous (Cenomanian) of Ein-Yabrud, near Jerusalem. Journal of Vertebrate Paleontology, 5 (3): 181-193.

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06. Chalifa, Y., 1989. Two new species of Longirostrine fishes from the Early Cenomanian (Late Cretaceous) of Ein-Yabrud, Israel, with comments on the phylogeny of the Dercetidae. Journal of Vertebrate Paleontology, 9 (3): 314-328.

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New Taxa (in chronological order)

Pachyamia Chalifa & Tchernov, 1982
Pachyamia latimaxillaris Chalifa & Tchernov, 1982
Saurorhamphus judeaensis Chalifa, 1985
Parenchodus Raab & Chalifa, 1987
Parenchodus longipterygius Raab & Chalifa, 1987
Enchodus brevis Chalifa, 1989
Yabrudichthys Chalifa, 1989
Yabrudichthys striatus Chalifa, 1989
Serrilepis Chalifa, 1989
Serrilepis longidens Chalifa, 1989
Rhynchodercetis gracilis Chalifa, 1989
Dercetoides Chalifa, 1989
Dercetoides venator Chalifa, 1989
Enchodus zinensis Chalifa, 1996

Chapters in the history of the National Collections of Natural History of Tel Aviv University

We continue in our tradition of honoring our scientific forefathers.

Heinrich Mendelssohn (1910-2002): his publications, new taxa and eponyms

H.K. Mienis and R. (A.) Landsman

Already five years have passed since Prof. Heinrich Mendelssohn has left us. It is still a strange feeling to work in the collections without the founder of the collections somewhere standing in the background. So many items, especially in the vertebrate collections, form permanent reminders to his zoological investigations.

His former pupil and longtime colleague Prof. Yoram Yom-Tov has written obituaries concerning Mendelssohn (Yom-Tov, 2002 & 2003). Less known are the autobiographic notes published by Mendelssohn himself about the period when he was a medical student at the University of Berlin (Mendelssohn, 1994).

Unfortunately so far no attempt has been made to publish a list of the printed writings of Prof. Mendelssohn. Here we present a provisional list of his publications. We are well aware that most probably we have missed some. We appreciate therefore to receive the full references to such omissions.

In addition we have listed the three new taxa of which he was a co-author and the eponyms i.e. scientific names dedicated to Prof. Heinrich Mendelssohn.

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* The exact title of this article is not known to us. Avidov (1961: 435-436) is referring to it in his book "Pests of the cultivated plants of Israel" when dealing with the Crested lark. Unfortunately so far we failed to trace a copy of this journal in any of the public libraries.

New taxa described by Heinrich Mendelssohn (in chronological order)

Discoglossus nigriventer Mendelssohn & Steinitz, 1943 (Amphibia)
Torgos tracheliotus negevensis Bruun, Mendelssohn & Bull, 1980 (Aves)
Gazella gazella acaciae Mendelssohn, Groves & Shalmon, 1997 (Mammalia)

Eponyms: Taxa named after Heinrich Mendelssohn (in chronological order)

Carabus (Tomocarabus) mendelssohni Schweiger, 1970 (Insecta)
Mendelssohnia Kugler, 1971 (Insecta)
Quisquilius mendelssohni Goren, 1978 (Pisces)
Cerastes gasperettii mendelssohni Werner & Sivan in Werner, Sivan, Kushnir & Motro, 1999 (Reptilia)

Hanan (Hans) Bytinski-Salz (1903-1986) - Addendum to his bibliography

A. Freidberg and H.K. Mienis

During the period that Dr. Hanan (Hans) Bytinski-Salz was working for the Ministry of Agriculture he published most of his papers written in Hebrew. Usually one or more of his colleagues took care of the translation of the original German or English manuscript into Hebrew. Unfortunately one of these Hebrew papers escaped the notice of all the people, who have ever dealt with the compilation of his bibliography. The following reference has to be added to the list of publications printed in the Annual Report 2005/2006:

Bytinski-Salz, H., 1952. The life of Dung beetles. Hatteva VeHaaretz (Nature and Country), 10 (1): 13-20, and 10 (2): 65-70. (translated from German into Hebrew by I. Harpaz)

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In the past years we have received financial support as well as support for curatorial positions, and now significant building support from VATAT, the Planning and Grants Committee of the Council of Higher Education of Israel. Moreover, the Head of VATAT, Shlomo Grossman, has been active in helping us raise funds for a proper collections facility. We are very grateful to him, as well as to all VATAT members. We also thank the Director-General of VATAT, Steven Stav, and his dedicated staff – Merav Shaviv, Avital Blajwas, Shira Navon, Yael Tur-Kaspa, and Uri Solomonovitz – for their constructive and professional attitude as well as their enthusiasm, kindness, and warmth. We are particularly grateful to Yael Siman-Tov Cohen and to Amir Gat of VATAT for their constant support, commitment, good will, and patience.

The Israel Academy of Sciences and Humanities has been involved for many years in attempts to safeguard the collections and to ensure their academic future. Menahem Yaari, President of the Israel Academy of Sciences and Humanities, and Ruth Arnon, the Vice President, are both involved with and supportive of our project. We are also grateful to Alex Levitzki, former Head of the Science Division of the Israel Academy of Sciences and Humanities for his commitment to promoting biodiversity research and conservation. Yehudith Birk, Chair of the Academy's Steering Committee for the National Collections of Natural History, has guided us time and again with her wisdom and valuable experience; we are, as ever, indebted to her for her patience, commitment, and mentoring, as well as for her hard work to promote this project. Raphael Mechoulam, Head of the Science Division of the Academy, continued his constructive activity towards promoting the collections and we are as ever grateful to him and to the committee members and observers – Reuven Merhav, Oded Navon, Yael Lubin, Ehud Spanier, and Yossi Loya – for their time, support, and initiative. We are also deeply indebted to Yossi Segal who has dedicated so much time, thought, patience, and effort to this project.

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The collections, faculty, and staff are part of Tel Aviv University that has ever been home and has always supported our endeavors. We thank the present Chair of the Board of Governors, Robert Goldberg, for his enthusiastic support.

Three university presidents have supported our project. We are grateful to Yoram Dinstein in whose term our building project began with the establishment of the first program committee, and who has allowed us to approach Michael Steinhardt and to elicit his interest in our project; we are grateful to Itamar Rabinovich in whose term much progress was made, including the Board of Directors' decision to build our facility, the establishment of Nature Campus, the appeal to VATAT for special funding for the building, and the appeal to government ministries for support; finally, we are grateful to our present president, Zvi Galil, for his firm support, commitment, warmth, and leadership, which help bring our project to fruition.

The Rectors of TAU have been uniformly supportive and we are deeply indebted to them for their help, from Dan Amir in whose term the building was declared a priority, Nili Cohen who enthusiastically supported our project and

has taken a constructive role in the program committee, Shimon Yankielowicz who led us in the important stage of gaining the status of a national project, and Dany Leviatan who is ever supportive and who has shown true academic leadership throughout the process, has led us diligently towards attaining government funding for the building, and has represented us so well in VATAT. We are also deeply grateful to the Vice-Rector, Raanan Rein, for his longstanding support and academic integrity, and for chairing the new and final building program committee.

Three Director-Generals have left their mark on our project. We are grateful to Niv Ahituv for establishing Nature Campus and serving on the first steering committee; we thank Gideon Langholz for the pivotal act of submitting our building for VATAT funding and for clearly making the point that special support was required because of significant space requirements; we thank Moti Kohn for his wise advice and enthusiastic support, and look forward to continued work with him on this project.

Three Deans of the Faculty of Life Sciences have been actively involved in our project. We thank Isaac Barash for helping us become a university priority project and for chairing the first program committee; we thank Eliora Ron for helping us in attaining recognition as a project of national significance and for her strong support of Nature Campus; we thank Yoel Kloog for allowing us to submit a proposal to a private foundation and for chairing the Nature Campus Steering Committee.

We are deeply grateful to our many friends in Tel Aviv University's administration, whose friendship and support have been invaluable. We thank our Vice-President for Development, Yehiel Ben Zvi, for warmth, friendship, and sage advice; we thank Danny Shapiro, the Head of the Public Affairs Administration, for his friendship and support through difficult times; we thank the new VP for Development, Gary Sussman, for his creativity and

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Nature Campus is a joint project in which the I. Meier Segals Zoological Garden and the Botanic Gardens take an active part. Their directors, Arnon Lotem and now Noga Kronfeld-Schor, and Jacob Garty, are our allies and partners in our efforts to promote science education on the environment.

We acknowledge the support of the Steering Committee of Nature Campus, Chaired by the Dean of Life Sciences, Yoel Kloog, whose members are Lea Pais, Director of the TAU Research Authority, Amit Streit, Director of the Finance Department, Sigal Adar, Director of Friends of TAU, Micha Ilan, Head of the Department of Zoology, Danny Chamovitz, Head of the Department of Plant Sciences, Yoel Rak, Head of the Department of Anatomy and

Anthropology, Arnon Lotem, Director of the I. Meier Segals Garden for Zoological Research, and Jacob Garty, Director of the Botanic Gardens. We are also grateful for the enthusiasm and constructive attitude of the members of the Nature Campus Scientific Committee: Danny Chamovitz, Head of the Department of Plant Sciences, Israel Finkelstein from the Jacob M. Alkow Department of Archaeology and Ancient Near Eastern Cultures, Jonathan M. Gershoni, the Department of Cell Research and Immunology, Yoav Gothilf from the Department of Neurobiochemistry, Abraham Hefetz, Head of the Department of Zoology, Ayala Hochman from the Department of Biochemistry, Arnon Lotem from the Department of Zoology and Director of the I. Meier Segals Garden for Zoological Research, Rafi Nachmias from the Jaime and Joan Constantiner School of Education, Yoel Rak, Department of Anatomy and Anthropology, Eliora Ron from Department of Molecular Microbiology and Biotechnology, and Marcelo Sternberg from the Department of Plant Sciences.

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Publications

The national collections of natural history are an important research infrastructure, used by scientists within and outside of the university. Approximately a decade ago we compiled the list of publications based on our natural history collections, and arrived at over 1200 publication produced by over 550 scientists. This list was incomplete, for technical reasons related to reconstructing this record, and because it did not include the sizable list of publications based upon the anthropological collections. Our current list of the 2005/2006 publications, alas, is also incomplete; it includes all publications of TAU members affiliated with the collections (whether they are directly collections-based on not), and under-represents publications of individuals from other institutions, since our follow-up is far from complete.

Refereed articles

1. Aartsen, J.J. van and Goud, J. 2006. Indo-Pacific migrants into the Mediterranean. 3. *Atys angustatus* Smith, 1872 (Gastropoda, Opisthobranchia). Basteria 70(1-3):29-31.
2. Aartsen, J.J. van and Goud, J. 2006. Indo-Pacific migrants into the Mediterranean. 6. *Syrnola lentix* (A. Adams, 1863) (Gastropoda, Pyramidellidae). Basteria 70(4-6):164-166.
3. Aartsen, J.J. van and Goud, J. 2006. The Ungulinidae (Bivalvia, Lucinoidea) of the Red Sea. Basteria 70(1-3):41-52.
4. Aartsen, J.J. van and Hori, S. 2006. Indo-Pacific migrants into the Mediterranean. 2. *Monotigma lauta* (A. Adams, 1853) and *Leucotina natalensis* Smith, 1910 (Gastropoda, Pyramidellidae). Basteria 70(1-3):1-6.
5. Aartsen, J.J. van, 2006. Indo-Pacific migrants into the Mediterranean. 4. *Cerithidium diplax* (Watson, 1886) and *Cerithidium perparvulum* (Watson, 1886) (Gastropoda, Caenogastropoda). Basteria 70(1-3):33-39.
6. Ahyong, S.T. and Galil, B.S. 2006. Polychelidae from the southern and western Pacific (Decapoda, Polychelida). Zoosystema 28(3):757-767.
7. Bar-Zeev, U. and Mienis, H.K. 2007. A record of *Rumina decollate* from a second area in China (Gastropoda, Subulinidae). Tentacle 15:10-11.

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16. Eppelbaum, L.V., Ben-Avraham, Z. and Katz, Y.I. 2007. Structure of the Sea of Galilee and Kinarot Valley derived from combined geological-geophysical analysis. First Break 25(1):21-28.

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1. Galil, B.S., Nehring, S. and Panov, V. 2006. Waterways as invasion highways – impact of climate change and globalization. In: Nentwig, E. (Ed.) Biological invasions. Ecological Studies, vol. 193:59-74.
2. Goren, M. Can Advanced Civilization Preserve Biodiversity in Marine Systems? In: The Future of Life and the Future of our Civilization (ed. Burdyuzha, V.): 155-164. Springer, Netherlands 495 pp.
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Papers presented in scientific meetings

2006 Comperative skeletal features between Homo Floresiensis and patients with Laron Syndrome. XVI Paleopathology Association European Meeting, Santorini, Greece (Hershkovitz, I., Kornreich, L. and Laron, Z.).

2006 Determining sacral inclination with Computed Tomography: A new method. The Israel Radiological Association Conference (Peled, N., Gaspar, T., Peleg, S., Dar, G., Masharawi, Y., Steinberg, N. and Hershkovitz, I.).

2006 Facet and interfacet shape and orientation in spondylolysis: a skeletal study. The SSE Annual Meeting EuroSpine; Istanbul, Turkey (Masharawi, Y., Dar, G., Peleg, S., Steinberg, N., Medleg, B., Ezra, D., Alperovitch-Najenson, D. and Hershkovitz, I.).

2006 Muscle atrophy and low back pain: A CT study. The Radiological Society of North America (RSNA) meeting (Alperovitch-Nejenson, D., Peled, N., Masharawi, Y., Robinson, D., Kalichman, L., Steinberg, N. and Hershkovitz, I.).

2006 Sacroiliac joint fusion: clinical implications. The Israel Radiological Association Conference (Peled, N., Gaspar, T., Dar, G., Peleg, S., Masharawi, Y., Steinberg, N. and Hershkovitz, I.).

2006 The shape of the neural arch as a causative factor in the isthmic spodylosis: characterization and biomechamical implications. Physical Therapy in Sport-International Conference; Birmingham, UK (Masharawi, Y., Alperovitch-Najenson, D., Dar, G., Peleg, S., Steinberg, N., Salame, K. and Hershkovitz, I.).

2006 43th meeting of the Zoological Society of Israel. Raanana, (Israel). The complete mt genome of *Negombata magnifica:* Implications on metazoan phylogeny. (Belinky, F., Rot, C., Ilan, M. and Huchon, D.).

2006 43th meeting of the Zoological Society of Israel. Raanana, (Israel). A new molecular marker to resolve metazoan phylogeny. (Goldfarb, I., Belinky, F., Ilan, M. and Huchon, D.).

2006 International Society for Reef Studies, European Meeting, Breeman Germany. Characterization of symbiotic algal cells in a vertical system: Red Sea soft corals (D. Zurel and Y. Benayahu).

2006 International Society for Reef Studies, European Meeting, Breeman Germany. The role of an artificial marine structure (AMS) in a restricted area in maintaining coral reef fish population diversity (M. Halperin and Y. Benayahu).

2006 International Society for Reef Studies, European Meeting, Breeman Germany. Development of a propagation protocol for the soft coral *Sarcophyton glaucum* for pharmaceutical and reef-restoration purposes (I. Sella and Y. Benayahu).

2006 International Society for Reef Studies, European meeting. Bremen, (Germany). A *Dascyllus trimaculatus* population flourishes around oil jetty pillars – The role of an artificial marine structure (AMS) in a coral reef. (Poster). (Halperin, M., Huchon, D. and Benayahu, Y.).

2006 The 25th Meeting of the Entomological Society of Israel. 14.8.2007, Hebrew University, Rehovot, Faculty of Agriculture. Noctuidae (Lepidoptera) – pests of Israel (Poster) (Seplyarsky, V.,

Kravchenko, V. and Müller, G.).

2006 The 25th Meeting of the Entomological Society of Israel. 14.8.2007, Hebrew University, Rehovot, Faculty of Agriculture. Deserticolous moths of Israel (Poster) (Seplyarsky, V., Kravchenko, V. and Müller, G.).

2006 The 43rd Conference of the Zoological Society of Israel, 1st December Ranana. Restocking of the extinct fish Acanthobrama telavivensis as a test case for the possibility to save engendered species (Goren, M. E. Elron, B. Libes, Y. Krotman and Y. Gueta).

2007 CIESM Workshop n 32, Lisboa, Portugal, 21-24 February 2007, Co-organizer, Impact of mariculture on Mediterranean coastal ecosystems (B.S. Galil).

2007 38th CIESM Congress, Istanbul, April, 2007. Co-organizer, Co-chair, Living Resources and Marine Ecosystems session (B.S. Galil).

2007 21st Annual Meeting of the Society for Conservation Biology, Port Elizabeth, South Africa (T. Dayan).

2007 27th Annual Meeting of the Department of Eretz Yisrael Studies and Archeology, Bar-Ilan University (invited to chair a session on conservation in Israel – present and future) (T. Dayan).

2007 35th Annual Meeting of the Israel Society for Ecology and Environmental Quality Studies (ISEEQS), Rehovot, Israel (invited to chair a session on invasive species) (T. Dayan).

2007 GLOWA JR Status Conference, Herrenberg, Germany (T. Dayan).

2007 Biodiversity in the eastern Mediterranean: present and future. The XII European Congress of Ichthyology (ECI XII). 9–13 September. Cavtat (Dubrovnik), Croatia. (Key note. Abstract) (Goren,M.).

2007 Do endeared species doomed to become extinct? The XII European Congress of Ichthyology (ECI XII). 9–13 September. Cavtat (Dubrovnik), Croatia. (Abstract) (Goren,M.).

2007 Evolution 2007. Christchurch, (New Zealand).DNA sequencing and SINE insertions support *Laonastes* as a "living fossil". (Huchon, D., Chevret, P., Jordan, U., Kilpatrick, W.C., Ranwez, V., Jenkins, P.D., Brosius, J. and Schmitz, J.).

2007 Museum & the Web, San Francisco, USA (Y.Gavrieli).

2007 The 38th Congers of the CIESM (The Mediterranean Science Commission). 9-13 April, Istanbul, Turkey. Is the deep Levantine Basin is a desert in the depth of the Mediterranean? – a comparison between western and eastern Mediterranean (Goren, M. and B.S. Galil).

2007 Workshop on Applied Evolutionary Bioinformatics. Kaikoura, (New Zealand). Indels provide evidence for Diploblastica monophyly. The Dumont D'Urville (Poster) (Belinky, F., Goldfarb, I., Ilan, M. and Huchon, D.).

Graduate students

Much active scientific research is conductedby graduate students. Here we list the graduate students of faculty members affiliated with the National Collections of Natural History at Tel Aviv University. We list also a few graduate students from other institutions of higher education, but names and affiliations of many others from Israel and abroad who used the collections are unknown to us.

PhD students

1999- Liora Glass (E. Geffen and T. Dayan)
The ecology of jungle cats in natural and anthropogenic habitats in Israel.

2000- Reuvat Nitzan (T. Dayan and A. Ar)
Population dynamics of the chukar partridge in Israel.

2001- N. Knopp (I. Hershkovitz)
Dancer's injuries.

2002- Yoav Motro (Y. Yom-Tov and U. Safriel)
Mechanisms of biological control of a rodent pest by a nocturnal raptor: the use of barn owls for vole control in Israel.

2002- Hadass Schteinitz (Y. Yom-Tov and T. Dayan)
Estimating the effect of global warming on the distribution of Israeli animals.

2003- Andrey Aaronov (M. Goren)
Ecology of fishes in Mediterranean rocky habitats.

2003- B. Bahaa (I. Hershkovitz)
Macro and microstructure of the annulus fibrosus.

2003 - Leon Novak (M. Ilan)
Engineering a bacterial expression system to produce large amounts of known and of modified naturally occurring bioactive compounds of pharmacological interest.

2003- Noa Shenkar (Y. Loya)
Bioactivity of Mediterranean and Red sea tunicates.

2003-	Merav Weinstein (T. Dayan and A. Hefetz) Invasive ants of Israel.
2003-	Gidon Winters (Y. Loya) Photoinhibition in corals – effects of UV, PAR and temperature.
2004-2007	Efrat Gavish (Y. Lubin, Ben Gurion University) Description of new spiders species from the family Linyphiidae.
2004-	Shai Barkan (Y. Yom-Tov and A. Barnea). Memory of resident and migratory birds.
2004-	G. Dar (I. Hershkovitz) Spondyloarthropathy.
2004-	Liat Gahanama (A. Freidberg) A revision of the *Schistopterum* clade of Schistopterini.
2004-	Constantin Grach (A. Freidberg) Ecology and biology of costal dune insects.
2004-	Mati Halperin (Y. Benayahu) Genetic diversity, demography and behavior of the three-spot dascyllus, Dascyllus trimaculatus Rüppell, in the northern Gulf of Eilat (Red Sea).
2004 -	Boaz Mayzel (M. Ilan) Magnetoreception in sponges.
2005-	Rachel Armoza (Y. Loya) Ecological and physiological aspects of sex hormones in corals.
2005 -	B. Blihoghe (M. Ilan) Natural products from sponge associated miscroorganisms.
2005-	Motti Charter (Y. Leshem)
2005 -	M. Haber (M. Ilan) Biosynthesis and function of Natural products from sponge associated miscroorganisms.
2005-	O. Hay (I. Hershkovitz) Evaluating lumbar spine condition via CT in individuals with lower back pain.

2005- Irina Khalfin (M. Ilan)
Function of natural products from sponge associated fungi.

2005- Yaron Krotman (M. Goren)
Fish biodiversity and ecology in oasis habitats in the Dead Sea Valley.

2005- Tal Levanony (T. Dayan)
Patterns of biodiversity in natural and cultural landscapes: a model Mediterranean forest ecosystem.

2005- Ofir Levy (T. Dayan and N. Kronfeld-Schor)
Modeling climate effects on temporally-partitioned rocky desert rodents: from basic principles to community structure.

2005- R. Sarig (I. Hershkovitz)
Interproximal wear.

2005- Amy Shlesinger (Y. Loya)
Predator-prey interactions between nudibranchs and their sea-anemone prey.

2005- Orit Skutelsky (T. Dayan and E. Feitelson)
Biodiversity conservation in biosphere reserves of Israel: the switch from a market led to conservation oriented agriculture.

2005- Assaf Zevoluni (Y. Loya)
Coral community dynamics in bleached and non-bleached coral reefs (Zanzibar vs. Elat).

2006- 2007 Raj Singh (D. Huchon, Visiting Phd student)
Mitochondrial genome of Sylvioidea.

2006- Frida Belinky (D. Huchon and A. Lotem)
Multiple approaches to solve basal metazoan phylogeny and its implication on intron evolution.

2006- Eran Levin (Y. Yom-Tov and N. Kornfeld).
Ecophysiology of free-tailed bats.

2006- Lidar Sapir (T. Dayan and G. Bar-Oz, University of Haifa)
Animal bones, ancient populations, and site formation processes: A test case of Dor, a coastal Levanite site.

2006- Chen Yoffe (Y. Benayahu)
Symbiont transmission in cnidarian hosts: integrated processes and mechanisms determine specificity.

2007- Y. Aluma (M. Ilan)
Environment impact on sponge-fungi association.

2007- Amir Shitenberg (D. Huchon and M. Ilan)
Phylogeny and evolution of demosponges.

MSc students

2003-2006 Inbal Ginsburg (Y. Benayahu)
Farming of soft coral for reef rehabilitation purposes.

2003-2006 Amir Gur (M. Ilan)
Iron deposition in sponges.

2003- 2007 Larisa Lerner (A. Freidberg)
Studies of *Carpomyina* (Tephritidae).

2003- Shunit Gal (D. Gerling)
Variations within a species - *Bemisia tabaci* (due to parasitic bateria).

2003- Victoria Semyatich (J. Garty and A. Hochman)
The biochemical response of lichens to environmental stress.

2004-2006 Shani Inbar (D. Huchon)
Identification of new nuclear markers to solve sponge phylogeny.

2004-2006 Ariella Gotlieb (T. Dayan)
Ecological restoration of the Ze'elim wadi bed, near the Dead Sea.

2004-2007 Ido Sella (Y. Benayahu)
Cultivation of the soft coral *Sarcophyton glaucum*.

2004-2007 Amir Shitenberg (M. Goren)
Geographical variation in selected cichlid fish.

2004-2007 Yael Zaldam (Y. Benayahu)
Colonization of fixed and floating artificial marine structures at Elat (Red Sea).

2004-2007 Dror Zurel (Y. Benayahu)
Specificity of algal symbionts in horizontally acquired system.

2004- Haim Biala (V. Soroker, The Agricultural Research Organization of Israel)
Ants associated with banana aphids.

2004- Noam Cohen (M. Inbar and I. Izhaki, Oranim Academic College)
The effects of secondary metabolires in nectar on ants.

2004- Michal Meir (A. Freidberg and M. Sternberg)
Flower color variation in the thistle, *Syllibum marianum*.

2004- Shachar Samra (A. Freidberg and D. Gerling)
Biology and taxonomy of selected Parasitica (Hymenoptera).

2004- Daniel Yashunski (M. Goren)
Succession of fish community in planted corals in Elat.

2005- 2007 Ophir Shneor (Y. Yom-Tov and D. Huchon).
Migration waves of a *Sylvia* warbler (*Sylvia atricapilla*).

2005- J. Abass (I. Hershkovitz)
Ligamentum flavum and spinal stenosis.

2005- Ada Alamaro (Y. Loya)
Ecological and cellular aspects of color morphs in the coral Stylophora pistillata.

2005- Ayelet Dadon (Y. Loya and M. Fine)
Mechanisms of bleaching in the Mediterranean coral *Oculina patagonica*.

2005- Kfir Gaier (M. Goren)
The impact of grazing fish on invertebrate communities in eastern Mediterranean.

2005- Gali Gingold (Y. Yom-Tov and E. Geffen)
The effect of dogs on gazelles in the Golan Heights.

2005- Itay Goldfarb (D. Huchon and M. Ilan)
Identification of new nuclear markers to solve sponge phylogeny.

2005- Michal Grosovich (Y. Benayahu)

Habitat partitioning of three azooxanthellate soft corals in Elat (northern Red Sea).

2005- Nimrod Lazarus (Y. Loya)
Induction of metamorphosis in nudibranch larvae.

2005- Mustaga Mahagna (D. Gerling)
Identity of the whitefly *Aleurolobus marlatti* in Israel and its relationship with *A. niloticus*.

2005- Osnat Maor (M. Goren)
Reproductive biology the cyprinid fish Garra rufa in the Jordan River basin.

2005- H. May (I. Hershkovitz)
Hyperostosis Frontalis Interna.

2005- Erez Maza (T. Dayan)
Climate and land-use patterns in biodiversity.

2005- Ido Mizrachi (Y. Loya)
Sclerochronology of bleached and non-bleached corals.

2005- Oren Shelef (E. Groner and M. Shachak, Ben Gurion University)

2005- Tamir Shelhav (E. Groner and M. Shachak, Ben Gurion University)

2005- Rosin Shemesh (Y. Loya and E. Rosenfeld)
Possible causes of white band disease in Faviid corals at Elat.

2005- Ina Stierberg (T. Dayan)
Climatic gradients in biodiversity.

2005- Maya Weizel (Y. Loya)
Bleaching patterns in a Red Sea scleractinian coral population.

2005- Rafi Yaabetz (Y. Loya)
Reproductive cycle of a nudibranch.

2005- Kineret Yoktan (Y. Yom-Tov)
Phylogeography of the orange-tufted Sunbird *Nectarinia osea*.

2006- Frida Belinky (D. Huchon and A. Lotem)
Metazoan phylogeny and its implications for genome evolution.

2006- O. Bergman (M. Ilan)
Sponge farming for natural products.

2006- G. Friedman (Y. Yom-Tov and Y. Leshem).
The biology of the long-legged buzzard *Buteo rufinus* in Israel.

2006- Yael Hollender ((T. Dayan and Y. Mandelik)
The interaction of commercial pollinators and natural bee communities in the central Arava region.

2006- Z. Kochva (M. Ilan)
Sponge associated bacteria and their role in production of natural products.

2006- Shay Rotich (T. Dayan)
The effect of artificial illumination on a rocky desert rodent community.

2006- Bat Sheva Rotman (M. Goren)
The biology the balitorid fish Nemacheilus jordanicus in the Jordan River basin.

2006- Denise Samsonovich (Y. Benayahu and G. Zilman)
Hydrodynamics and settlement of marine larvae.

2006- Karin Tamar (T. Dayan)
Archeozoology of Tel Bet Shemesh.

2006- G. Tirosh (M. Ilan)
Sponge community in the Israeli Mediterranean coast.

2006- Michal Weis (Y. Benayahu)
Bivalves as colonizers of artificial marine structures at Eilat (Red Sea).

2007- Hagit Alphandary (M. Goren and Prof. Henig)
Analysis of decision making process in the case of Kishon River

Post-doctoral fellows

2004-2007 Noam Leader (Y. Yom-Tov)

2006-2007 Yael Mandelik (T. Dayan)

2006- P. Sauleu (M. Ilan)

Fellowships and grants

Support for collections-based research is provided by fellowships and grants. Here we list the fellowships and grants of faculty members of Tel Aviv University who are affiliated with the collections. Needless to say, the many colleagues from other research institutions in Israel and abroad also receive fellowships and grants that hinge, at least in part, on work in the natural history collections. These data, however, are not available to us.

While these fellowships and grants and others cannot support collections maintenance, they are crucial for collection development since they provide the funds for active collecting, which are otherwise unavailable in the State of Israel. We do our best to help scientists use the collections and to promote collections-based biodiversity research.

2001- Tobias Landau Foundation. Research project: Colonization of artificial reefs in Elat (Red Sea) (Y. Benayahu). -20% allocated for collections-based research.

2002- On-going grant from the Nature and Parks Authority to "rescue" insects on the Golan and Hermon (V. Chikatunov and A. Freidberg).

2003-2007 Israel Science Foundation (ISF)-"An integrative approach of studying bacterial coral bleaching in the coral reefs of Elat". (Y. Loya and E. Rosenberg).

2003-2010 The World Bank/UNESCO/IOC International Targeted Group of Experts on "indicators of coral bleaching". A group which is composed of 15 scientists as follows: from USA (3) Hawaii (1), England (2), Australia (2), Kenya (3), Israel (1), Philippines (1), Mexico (1) and France (1).The group meets and works together 2-3 weeks every year at 4 reef sites: Heron Island (Great Barrier Reef, Australia), Puerto Morelos (Mexico), Philippines (exact location to be determined) and Zanzibar (Y. Loya Co-Chairman with Prof. O. H. Guldberg).

2004-2007 Grant from the Israel Scientific Foundation. Exploitation and hunting patterns of Mountain Gazelle (*Gazella gazelle*) and Persian Fallow Deer (*Dama mesopotamica*) during the Late

Pleistocene - Early Holocene of the Southern Levant: Testing the hypothesis of cultural control (3 year grant; ca. $30,000 per annum (G. Bar-Oz and T. Dayan [C.I.]).

2004-2007 US (MD) - Israel BARD - Binational Agricultural Research and Development Fund (Jerusalem, Israel) (M. Ilan, M. Shpigel and R. Hill).

2004-2007 USAID-CDR, Research Project: Scientifically based framework for conserving and monitoring the Eritrean coral-reefs (Y. Benayahu).

2004-2008 BSF - US - Israel Binational Scientific Foundation (Jerusalem, Israel). (M. Ilan and J. Aisenberg).

2004-2008 Israel Science Foundation (ISF). "The isotopic composition of Eilat's corals: basic aspects of signals buildup and tracing anthropogenic stress. (Co Y. Loya and A. Shemesh).

2005-2006 Israel Nature and National Parks Protection Authority (P.I). For developing booklet and lesson plans on nature and antiquities conservation for Israel Defense Forces. (20,000 NIS ca. $4,400) (Y. Gavrieli).

2005-2007 Grant from the USDA (and other donators) to develop the Parasitica collection (D. Gerling).

2005-2007 International Arid Lands Consortium (IALC) ($100,000) (E. Geffen and G. Roemer).

2005-2007 Porter School of Environmental Studies in collaboration with the Italian Ministry of the Environment: Artificial Marine Structures (AMS): Multifunctional Tool for Research and Environmental Management in the Mediterranean and Red Sea (MED- RED) (Y. Benayahu, Y. Loya and A. Abelson) -20% allocated for collections-based research.

2005-2007 Resolving the higher-level phylogeny of rodents using nuclear genes and SINEs retrotransposons. The United States-Israel Binational Science Foundation (start-up grant program) ($30,000 per year) (D. Huchon and R.W. DeBry).

2005-2008 GLOWA Jordan River research grant: Modeling the impact of global climate change on terrestrial biodiversity in the Jordan River Basin: Testing planning scenarios and climate change

scenarios (3 year grant; ca. EURO 35,000 per annum) (T. Dayan, P.I. of subproject).

2005-2009 The Israel Science Foundation (488/05); 4 years. Vocalization as an indicator of individual quality in the rock *hyrax* ($180,000) (O. Mokady, E. Geffen and M. Kam).

2006 Ministry of Environment (P.I.). For developing an interpretation kit on Biodiversity for teachers. (35,000 NIS ca. $7,800) (Y. Gavrieli).

2006 Ministry of Science (P.I.). For science for all program – Arab and Jewish children and Parents from Lod visiting Nature Campus. (15,000 NIS ca. $3,300) (Y. Gavrieli).

2006-2007 Government Advertising Agency – Lapam (P.I). For developing Nature's Resources on the Web (150,000 NIS ca. $35,000) (Y. Gavrieli).

2006-2007 Has habitat fragmentation and rainpools geographic distance caused genetic variation among populations of the Syrian spadefoot toad Pelobates syriacus syriacus in Israel? Israel Nature Reserve and Parks Authorities. 80,000 NIS (S. Gafny and A. Freidman).

2006-2007 Mekorot. Bio-management of water quality in reservoir (M. Goren).

2006-2007 The effect of aquatic recreation activity on macroinvertebrate and fish assemblage in water bodies of the Hula Valley. Israel Nature Reserve and Parks Authorities. 80,000 NIS (S. Gafny and M. Goren).

2006-2008 Bridging the Rift Foundation research grant. Biodiversity in human-dominated landscapes in the Arava Rift Valley (2 years of post-doctoral fellowship [T. Dayan and Y. Mandelik] at $22,000 per annum plus $25,000 per annum for research).

2006-2008 German-Israeli Foundation for Scientific Research and Development grant: Patterns of biodiversity in natural and cultural landscapes: a model Mediterranean forest ecosystem (3 year grant; total sum EURO 158,000) (T. Dayan and T. Assmann).

2006-2009 Israel Science Foundation research grant. Animal bones, ancient populations, and site formation processes: A test case of Dor, a

coastal Levanite site (3 year grant; 225,000 NIS [ca. $50,000] per annum) (T. Dayan and G. Bar-Oz C.I.)

2006-2010 Israel Science Foundation (M. Ilan, S. Carmeli and O. Yarden).

2006- 2010 Sponge (Metazoa: Porifera) phylogenetics using novel molecular markers. The Israel Science Foundation (NIS 270,000 per year). (D. Huchon).

2007 Nature Reserves Authority. The Feasibility assessment of restoration of the endangered loach- *Nemacheilus dori* (M. Goren).

2007 Nature Reserves Authority. The impact of tourism on aquatic biota (M. Goren).

2007 Ministry for Environmental Protection research grant ("The impact of the little fire ant Wasmannia auropunctata on arthropod biodiversity in Israel") (1 year grant; 93,000 NIS [ca. $22,000]) (T. Dayan and A. Hefetz).

2007 Charles And Lynn Schusterman Family Foundation (P.I). For developing natural History Museum On-Line. ($66,000 ca. 278,000 NIS) (Y. Gavrieli).

2007 Grant from the Bath Sheba de Rothschild Foundation to bring two visiting scientists (Peter Kareiva and William Sutherland) to Israel ($8000) (T. Dayan and Zvi Ben-Avraham).

2007-2009 Phylogenomics of Urochordata and its application for detecting evolutionary shifts in vertebrate proteins. The High Council for Scientific and Technological Cooperation between France-Israel (#3-3449) [(P.I., NIS 217,500 for two years) D. Huchon and Y. Loya and Emmanuel J. P. Douzery (P.I. € 60,000 for two years)].

Awards

1996-	The Dr. Israel Cohen Chair in Environmental Zoology (Y. Yom-Tov).
1997-	The Raynor Chair in Environmental Conservation Research at Tel Aviv University (Y. Loya).
1999-	The Igor Orenstein Chair for Gerontological Research at Tel Aviv University (Y. Rak)
2007-	"Coalition Shield ", The Coalition for the Public Health (L. Fishelson).

Public service

1953- Member of the Zoological Society of Israel (L. Fishelson).

1965- Member of the Zoological Society of Israel (Y. Yom-Tov).

1969- National Representative in Scientific Committee of Oceanographic Research (SCOR) (L. Fishelson).

1970- Member of the American Society of Ichthyologists and Herpetologists (L. Fishelson).

1970- Member of the Israel Ecological Society (M. Goren).

1970- Member of the Zoological Society of Israel (M. Goren).

1971- Curator Mollusc Collection, Dept. Evolution, Systematics and Ecology, Hebrew University of Jerusalem (H.K. Mienis).

1971- Honorary Associate, Dept. of Malacology, Zoological Museum Amsterdam, Amsterdam, the Netherlands (H.K. Mienis)

1972- Member of the Entomological Society of Southern Africa (A. Freidberg).

1973- Member of the IAL (International Association for Lichenology) (J. Garty).

1973- Member of the Israel Zoological Society (Y. Benayahu).

1973- Member of the The Israel Ecological Society (J. Garty).

1975- Member editorial board 'Malacologia', U.S.A. (H.K. Mienis).

1975- Member of the Israel Ecological Society (L. Fishelson).

1976- Curator of the Fish collection, Zoological Museum, Tel Aviv University (M. Goren).

1976- Member editorial board 'Malacological Review', U.S.A. (H.K. Mienis).

1976- Member of the Entomological Society of Israel (A. Freidberg).

1977 Member of the Sociedad Argentina de Botánica (S. Blumenfeld).

1977- Member of the Intecol - International Ecological Society (L. Fishelson).

1978- Member of the La Societe Francais d'Ichthyologie (M. Goren).

1979- Member of the editorial board of Marine Ecology Progress Series (Y. Loya).

1979- Member of the Entomological Society of Washington (A. Freidberg).

1980- Member of the International Crustacean Society (B.S. Galil).

1980- Ministry of Agriculture, Plant Protection Department, Bet Dagan, identification of intercepted mollusca (H.K. Mienis).

1981- Israel Anthropological Society (Hershkovitz I.).

1981- Israel Society for Anatomical Sciences (Hershkovitz I.).

1981- Member of the Israel Society for Electron Microscopy (J. Garty).

1982- Member of the Advisory Board of the Israel Journal of Zoology (Y. Yom-Tov).

1982- Member of the European Ichthyological Union (M. Goren).

1982- Member of the European Union of Ichthyologists (L. Fishelson).

1983- Curator of the Invertebrate collections, Zoological Museum, Tel Aviv University (Y. Benayahu).

1983- Scientific Advisor of the Israel Nature and Parks Authority (M. Goren).

1984- Member of the Israel Zoological Society (M. Ilan).

1984- European Anthropological Association (I. Hershkovitz).

1984- Israel Prehistoric Society (I. Hershkovitz).

1985- Curator of the Entomological collections, Zoological Museum, Tel Aviv University (A. Freidberg).

1985- Member of the Biological Society of Washington (B.S. Galil).

1985- Member of the Committee for Fauna and Flora of Israel - The Israel Academy of Sciences and Humanities (M. Goren).

1985- Member of the Israel Society for Aquaculture (M. Goren).

1986 - Member of the Board of the Regional Central Asia Committee of Stratigraphy (O. Orlov-Labkovsky).

1986- Member of the editorial board of Marine Biology (Y. Loya).

1986- Member of the International Society for Reef Studies (Y. Benayahu).

1986- Member of the Israel Society for Ecology and Environmental Quality Sciences (B.S. Galil).

1986- Member of the the Botanical Society of Israel (J. Garty).

1986- Member of the Zoological Society of Israel (T. Dayan).

1987 Member of the Asociacion Argentina of Micología (S. Blumenfeld).

1987- Curator of Birds and Mammals, Zoological Museum, Tel Aviv University (Y. Yom-Tov).

1987- Member of the Israel Society of Prehistory (T. Dayan).

1988- Member of the International Society for Reef Studies (USA) (M. Ilan).

1988- Member of the Ecological Society of America (T. Dayan).

1988- Member of the Fauna and Flora Committee, Israel Academy of Sciences and Humanities Curator of Birds and Mammals (Y. Yom-Tov).

1988- Member of the Israel Society for Ecology and Environmental Quality (Y. Benayahu).

1988- Member of the Society of Invertebrate Reproduction (Y. Benayahu).

1989- Paleoanthropology Society (Hershkovitz I.).

1989- Pre-clinical Advisor for New York Program medical students (Y. Rak)

1989- The Willi Hennig Society (elected fellow) (A. Freidberg).

1990- Deutsche Gesellschaft für Tropenoekologie (A. Freidberg).

1990- Member of the American Society of Mammalogists (T. Dayan).

1990- Member of the International Council of Archaeozoology (T. Dayan).

1990- Member of the International Ornithological Committee (Y. Yom-Tov).

1990- Member of the Pacific Science Association (Y. Benayahu).

1990- Member of the Society of Vertebrate Paleontology (T. Dayan).

1990- Member of the Zoological Society of Israel (B.S. Galil).

1991 Member of the Sociedad Chilena de Fitopatología (S. Blumenfeld).

1991- Smithsonian Institution Entomology, Research Associate (A. Freidberg).

1991- Member of the Ichthyological Society of Japan (M. Goren).

1991- Member of the scientific council of MEDIFAUNE (Mediterranean fauna data bank), Universite de Nice, France (B.S. Galil).

1992- Member of the Society for Research on Coelenterates (USA) (M. Ilan).

1992- Member of the Board of Publications, Senckenberg Institute, Germany (L. Fishelson).

1992- Member of the Editorial Board of "Vie Marine" (B.S. Galil).

1992- Member of the Israel Society of Ecology (T. Dayan).

1993- Member of the Ecology Graduate Program Committee, Faculty of Life Sciences, Tel Aviv Univ (T. Dayan).

1993- Member of the Israel Society for the Study of the Origin of Life (IL-SOL) (J. Garty).

1993- Member of the IUCN Canid Specialist Group (E. Geffen).

1993- Paleopathology Association (Hershkovitz I.).

1993- Scientific Advisor to the Yarqon River Authority (M. Goren).

1994 Member of the Asociacion Latinoamericana de Micología (S. Blumenfeld).

1994 Member of the Asociacion Micológica Carlos Spegazzini (S. Blumenfeld).

1994- Dental Anthropology Association (Hershkovitz I.).

1994- Member of the American Association of Anatomists (L. Fishelson).

1994- Member of the Corriculum Committe (Y. Rak)

1994- Research Associate of the Oceanographic Research Institute, Durban, South Africa (Y. Benayahu).

1995- American Associations of Physical Anthropology (Hershkovitz I.).

1995- Human Biology Association (Hershkovitz I.).

1995- Member of the American Society for Integrative and Comparative Biology (Y. Benayahu).

1995- Member of the Director of the National Collections of Natural History at Tel Aviv University (T. Dayan).

1995- Member of the Fisheries Society of Africa (M. Goren).

1995- Member of the Societa Italiana di Biologia Marina (B.S. Galil).

1995-2006 Member of the Museum Committee in the Zoology Department (Y. Benayahu).

1996- Editor of the Journal of International Wildlife Law and Policy, Corresponding (M. Ilan).

1996- Curator of the Crustaceans Collection, Zoological Museum, Tel Aviv University (B.S. Galil).

1996- Member of the American Microscopical Society (Y. Benayahu).

1997- Member of the International Society for Research on Symbiosis (USA) (M. Ilan).

1997- Member of the scientific steering committee of the Institute for Nature Conservation Research (M. Ilan).

1997- Adopting a scientist for a Shapiro Stipend, Prof. A. Lehrer (A. Freidberg).

1997- Chair of the Raynor Chair for Environmental Conservation Research, Tel Aviv University (Y. Loya).

1997- Member of the Advisory Board of "Tropical Zoology" (B.S. Galil).

1997- Member of the British Ornithologists' Union (Y. Yom-Tov).

1998- Scientific co-convenor of DIVERSITAS (An international progremme of Biodiversity Science) STAR element 9 on "Inventory and Monitoring of Inland Water Biodiversity" (M. Goren).

1998- Israel Journal of Entomology, Editorial board (A. Freidberg).

1998- Member of the American Fisheries Society (M. Goren).

1998- Member of the Departmental Committee, Department of Zoology, Tel Aviv University (T. Dayan).

1998- Member of the Societas Internationalis Limnologiae (SIL) (M. Goren).

1999- Co-Chair of the committee for Fauna and Flora of Israel - The Israel Academy of Sciences and Humanities (M. Goren).

1999- Member editorial board 'Triton', Israel. (H.K. Mienis).

1999- Member of the Society of Systematic Biologists (D. Huchon).

1999- Member of the Board of Directors of the Inter-university Institute (IUI), Elat (Y. Benayahu).

1999- Member of the Committee for terms in ecology and environmental quality, The Academy for Hebrew Language (Y. Benayahu).

1999- Member of the Editorial Board of "Biological Invasions" (B.S. Galil).

1999- Member of the International Society for the Study of the Origin of Life (ISSOL) (J. Garty).

1999- Member, National Committee for the environmental curriculum in high schools (L. Fishelson).

2000 - Member of the steering committee of the Department of Biology, Israel Oceanographic and Limnological Research, Haifa (M. Ilan).

2000 - Member of the steering committee of the Department of Biology, Israel Oceanographic and Limnological Research, Haifa (M. Ilan).

2000- Member of the Japanese Coral Reef Society (Y. Benayahu).

2000- Adopting a scientist for a Gil'adi program (A. Freidberg).

2000- Director of Nature Campus, Tel Aviv University, Tel Aviv (Y.Gavrieli).

2000- Member of the Academic Planning Committee, Tel Aviv University (Y. Loya).

2000- Member of the Board of Directors of the Inter-university Institute (IUI), Elat (Y. Loya).

2000- Member of the Israel Society for Oxygen and Free Radical Research (J. Garty).

2000- Member of the Scientific Advisory Board of the International Institute (Peoples) (T. Dayan).

2000- Member of the Scientific Review Board - Coral bleaching Project, Research Institute for the Subtropics (RSI), Okinawa, Japan (Y. Loya).

2000- Member of the Zoological Society of Israel (R. Ben-David-Zaslow).

2001- Member of Man and Biosphere Committee, UNESCO (Y.Gavrieli).

2001- Member of the executive committee of the Zoological Society of Israel (M. Goren).

2001- Co Chairman -International Targeted working group on coral bleaching under the auspices of the World Bank, in collaboration with IOC/UNESCO (Y. Loya).

2001- Educational Advising Committee, Society for the protection of Nature in Israel (Y.Gavrieli).

2001- Head of the National Center for High Throughput Screening of Novel Bioactive Compounds (M. Ilan).

2001- Member of the Board of Directors, Society for the Protection of Nature in Israel (Y. Yom-Tov).

2001- Member of the Chair of the Israel MAB (Man and Biosphere) UNESCO Committee (T. Dayan).

2001- Member of the International Council of Museums (Y. Gavrieli).

2001- Member of the Israel Council of Museums (Y. Gavrieli).

2001- Member of the Israel IGBP (International Geosphere Biosphere Program) Committee (T. Dayan).

2001- Member of the Museum Committee (Chair), Department of Zoology, Tel Aviv University (T. Dayan).

2001- Member of the Steering Committee for Nature Campus, Public Programs, Exhibitions and Education at the National Collections of Natural History, the I. Meier Segals Garden for Zoological Research and the Botanic Gardens (T. Dayan).

2001- Member of the UNESCO World Heritage Committee, Israel (T. Dayan).

2001-2006 Member of the Advisory committee for the Minister of the Environment's award for volunteers (T. Dayan).

2001-2007 Member of the SPNI Council (T. Dayan).

2002- Board member of the Water Environment Forum, Israel Water Association (S. Gafny).

2002- Member of the Sociéta Lichenologica Italiana (Honorary member) (J. Garty).

2002- Educational Advising Committee, Nature Center, Ramat Hanadiv (Y. Gavrieli).

2002- Member of the Department Committee in the Department of Zoology (Y. Benayahu).

2002- Member of the editorial board of Marine Pollution Bulletin (Y. Loya).

2002- Member of the Society for Conservation Biology (T. Dayan).

2002-2007 Co-chair, Scientific committee "Living Resources and Marine ecosystems", CIESM (B.S. Galil).

2003- Curator of the Molecular Systematics collections, Zoological Museum, Tel Aviv University (D. Huchon).

2003- Chair of the National Biodiversity Planning sub-committee for education and public awareness. (Y. Gavrieli)

2003- Elected Council Member, Society for the Protection of Nature in Israel (Y. Gavrieli).

2003- Member of the Board of Directors of the Nature and National Parks Protection Authority of Israel (INPA), and Chair of the Science Committee of the Board (T. Dayan).

2003- Member of the Board of Directors of the Nature and National Parks Protection Authority of Israel (INPA) (B.S. Galil).

2003- Member of the Great Rift Valley task force of the UNESCO World Heritage Committee (T. Dayan).

2003- Member of the Israeli Society for aquatic research (M. Goren).

2003-2006 Head of the Department of Zoology (Y. Benayahu).

2003-2006 Member of the Professional committee for biology teaching in the Ministry of Education, Israel (T. Dayan).

2004 - Member of the Society for Conservation Biology (Y. Gavrieli).

2004 - Correspond- member of the Subcommission on Carboniferous Stratigraphy of the International Commission on Stratigraphy (O. Orlov-Labkovsky).

2004- Chair of the Strategic Planning Committee for the Open Lands Institute on behalf of Yad Hanadiv Foundation (T. Dayan).

2004- Editor in Chief of Electronic Journal of Ichthyology (M. Goren).

2004- Member of the Advisory Committee on "Man and the Environment", Yad Yizhak Ben-Zvi (T. Dayan).

2004- Member of the Central Nomination Committee of Tel Aviv University (Y. Loya).

2004- Member of the National Parks and Nature Reserves Council of Israel (T. Dayan).

2004- Member of the steering committee of the Red Sea monitoring program. Ministry of the Environment (M. Ilan).

2004- Training Mrs. Valeria Spliasky of The Plant Protection and Inspection Services in taxonomy and taxonomic methodology of Aleurodidae. Jointly launching a website on the Aleurodidae of Israel (Presently only in the PPRI site, in the future it will also appear in our museum's site) (D. Gerling).

2005- Chair, Council for the Open Lands Institute on behalf of Yad Hanadiv Foundation (T. Dayan).

2005- Chief-editor of the Electronic Journal of Ichthyology, The bulletin of the European Ichthyological Society (M. Goren).

2005- Co-chair (with J. Gershoni) of the Nature Campus Science Committee, TAU (T. Dayan).

2005- Head of the Faculty of Life Sciences Graduate School (M. Ilan).

2005- Identification of whiteflies for the Plant Protection Service. (D. Gerling).

2005- Member of the Invasive Species Scientific Committee, IUCN (B.S. Galil).

2005- Member of the steering committee for the National Collections of Natural History, under the auspices of the Israel National Academy of Sciences and Humanities (T. Dayan).

2005-2006 Editor of the Israel Journal of Entomology (A. Freidberg).

2005-2007 Member of the selection committee for Fulbright post-doctoral fellowships (T. Dayan).

2006- Member of the Zoological Society of Israel (D. Huchon).

2006 Apr National Museum of Natural History, Leiden, Netherlands, Visiting Professor (Y. Benayahu).

2006 Jul National Sun Yet-sen University, Kaohsiung, Taiwan, Visiting Professor (Y. Benayahu).

2006- Co-chair, Forum on Biodiversity and the Environment, under the auspices of the Israel Academy of Sciences and Humanities (T. Dayan).

2006- Editor of - Israel Journal of Ecology and Evolution (M. Ilan).

2006- Head, Porter Scholl of Environmental Studies (Y. Benayahu).

2006- Member of CenSeam: a Global Census of Marine Life on Seamounts (part of the worldwide Census of Marine Life, CoML (B.S. Galil).

2006- Member of the Editorial Board of "Aquatic Invasions" (B.S. Galil).

2006- Member of the Inter-University Institute Teaching committee (M. Ilan).

2006-2007 Judge. Competition of middle school children: "Students Planning of 2020 Susutainable Tel Aviv Yafo: a City on the Coast". Organized by Tel Aviv Municipality (Y. Gavrieli).

2006-2007 Member of a scientific steering team assembled by the KKL Forest Department for the restoration of the forests in the north of Israel (T. Dayan).

2007- Head of the Department of Zoology (M. Ilan).

2007- Member of a Public Council for the Environment to work in conjunction with the Environmental Lobby of the Knesset and member of the Steering Committee of this Council (T. Dayan).

2007 Program Committee for the Natural History Museum Building at Tel Aviv University (T. Dayan).

Visiting scientists at the National Collections

The attached list includes visitors from institutions **other than** Tel Aviv University who came personally to use the natural history collections of Tel Aviv University in the past academic year. Much use is made of the collections by additional scientists who did not visit them in person. Some scientists get identification services for their research projects and others have lists of specimens and locations mailed to them for various types of research. Moreover, during this period many parcels containing scientific materials were mailed abroad for researchers in their home institutions.

Date	Name	Institute	Country	Taxonomic group
2006-2007	Y. Nagar	Israel Antiquity Authority	Israel	Anthropology
2006-2007	M. Meir	Tel Aviv University	Israel	Entomology
2006-2007	T. Ram	Ben-Gurion University of the Negev	Israel	Entomology
2006 Oct	Z. Brosh	Israeli Air Force	Israel	Birds
2006 Oct	I. Shapira	University of Haifa	Israel	Entomology
2006 Dec	Z. Brosh	Israeli Air Force	Israel	Birds
2006 Dec	O. Hazofe	Israel Nature and Parks Authority	Israel	Birds
2007 Jan	C. Arad	University of Haifa	Israel	Molluscs
2007 Jan	E. Sheffer	IOLR - Haifa	Israel	Molluscs
2007 Jan	Z. Brosh	Israeli Air Force	Israel	Birds
2006 Dec	Oded	Israel Nature and Parks Authority	Israel	Birds
2007 Jan	O. Paz		Israel	Mammals
2007 Jan	A. Oren	Faculty of Agricultural, Food and Environmental Quality Sciences	Israel	Mammals
2007 Jan	S. Vaisberg	Open University	Israel	Mammals

Date	Name	Institute	Country	Taxonomic group
2007 Jan	C. Dimentman	Hebrew University	Israel	Entomology
2007 Jan	B. Feldmann	Munster	Germany	Entomology
2007 Jan	W. Starke	Warendorf	Germany	Entomology
2007 Jan	T. Assmann	Institute of Ecology and Environmental Chemistry, University of Luneburg	Germany	Entomology
2007 Jan	I. De-Groote	University Collage London Department of Anthropology	England	Anthropology
2007 Jan-Jul	R. Sarig	Tel Aviv University	Israel	Anthropology
2007 Jan, Feb, Apr	L. Taovman	Tel Aviv University	Israel	Anthropology
2007 Feb	Z. Brosh	Israeli Air Force	Israel	Birds
2007 Feb	A. Haver	University of Chicago	USA	Mammals
2007 Feb	M. Wakgari	Haramaya University	Ethiopia	Entomology
2007 Feb	A. Ogunfunmilayo	Plant Quarantine Service	Nigeria	Entomology
2007 Feb	F. Bocquentin	CNRS University of Bordeaux	France	Anthropology
2007 Feb	G.O. Asier	University of Burgos Burgos	Spain	Anthropology
2007 Mar	A group of artists		Israel	All Colections
2007 Mar	O. Hazofe	Israel Nature and Parks Authority	Israel	Birds
2007 Mar	Z. Brosh	Israeli Air Force	Israel	Birds
2007 Mar	D. Knigshtein	I.M.S.	Israel	Molluscs
2007 Mar	A. Haver	University of Chicago	USA	Mammals
2007 Mar	G. Hartman	Harward University	USA	Mammals
2007 Mar	O. Sela	University of Haifa	Israel	Mammals
2007 Mar	J. Wasche	University of Luneburg	Germany	Entomology
2007 Mar	K. J. Ripake	University of Luneburg	Germany	Entomology

Date	Name	Institute	Country	Taxonomic group
2007 Mar	K. Stumpf	University of Luneburg	Germany	Entomology
2007 Mar	K. Koch	University of Luneburg	Germany	Entomology
2007 Mar	N. Anchens	University of Luneburg	Germany	Entomology
2007 Mar	T. Wriedt	University of Luneburg	Germany	Entomology
2007 Mar	J. Busch	University of Luneburg	Germany	Entomology
2007 Mar	J. Buse	University of Luneburg	Germany	Entomology
2007 Mar	T. Assmann	University of Luneburg	Germany	Entomology
2007 Mar	P. Cerreti	University of Rome	Italy	Entomology
2007 Mar	D. Whitmore	Cntro Nazionale per la Biodiversita Forestale	Italy	Entomology
2007 Apr	Z. Brosh	Israeli Air Force	Israel	Birds
2007 Apr	E. Spanier	Hebrew University	Israel	Crustaceans
2007 Apr	N. Weil	Hebrew University	Israel	Molluscs
2007 Apr	M. Ashkenazi	Tel aviv University	Israel	Anthropology
2007 Apr	I. Klain	Tel Aviv Sourasky Medical Center	Israel	Anthropology
2007 May	A. Oren	Faculty of Agricultural, Food and Environmental Quality Sciences	Israel	Mammals
2007 May	E. Spanier	Hebrew University	Israel	Crustaceans
2007 May	A. Kurzawska	Poland Academy of Sciences	Poland	Molluscs
2007 May	U. Galili	Israel Antiquity Authority	Israel	Molluscs
2007 Jun	A. Oren	Faculty of Agricultural, Food and Environmental Quality Sciences	Israel	Mammals
2007 Jun	A. Kurzawska	Poland Academy of Sciences	Poland	Molluscs
2007 Jun	E. J. Donahayi		Israel	Entomology
2007 Jun	R. Pinhasi	School of Human & Life Sciences, Roehampton University, London	England	Anthropology

Date	Name	Institute	Country	Taxonomic group
2007 Jul	A group of artists		Israel	All Colections
2007 Jul	S. Condemi	CNRS University of Bordeaux	France	Anthropology
2007 Jul	L. Eavens-Johnson	University of Lowa, Lowa City	USA	Anthropology
2007 Aug	A. Kurzawska	Poland Academy of Sciences	Poland	Molluscs
2007 Aug	Z. Brosh	Israeli Air Force	Israel	Birds
2007 Aug	H. Frank	Israeli Air Force	Israel	Birds
2007 Sep	Werner,Y.L.	Hebrew University	Israel	Reptilia
2007 Oct	A. Abu-Ras	Hebrew University	Israel	Fish

Support for academic and other courses

The natural history collections are university-based and, as such, their role is also to promote higher education. Some courses are TAU courses, several of which are our compulsory first- and second-year courses, taught to hundreds of students; however, other universities (Technion, University of Haifa, Open University) use our facilities for their specialized courses, as does the Avshalom Institute. Many Nature Campus activities also take place using the collections for varied audiences.

Purpose	Name	Institute	Taxonomic group
Faunistics of Mammals (academic course)	Y. Yom-Tov	Tel Aviv University	Mammals, Taxidermist and Museum Class
Insects the Flagship of Biodiversity (academic course)	A. Freidberg and D. Simon	Tel Aviv University	Entomology
Faunistica (academic course)	Z. Arad	Technion	Birds, Mammals and Museum Class
Vertebrates: Comparative anatomy and functional morphology (academic course)	D. Eilam, M. Ovadia and U. Oron	Tel Aviv University	Reptilia, Mammals and Taxidermist
Animal Behavior (academic course)	I. Golani	Tel Aviv University	Mammals and Museum Class
Introduction to Animal Kingdom: Invertebrates and Vertebrates (academic course)	M. Ovadia and A. Gasith	Tel Aviv University	Mammals and Entomology
The Invertebrates: Comparative Functional Biology (academic course)	M. Ilan, Y. Benayahu and A. Abelson	Tel Aviv University	Invertebrates, Entomology and Histology
Osteology And Anthropology (academic course)	I. Hershkovitz	Tel Aviv University	Anthropology

Purpose	Name	Institute	Taxonomic group
Physical Anthropology (academic course)	Y. Rak	Tel Aviv University	Anthropology
Human Evolution: fossil evidences (academic course)	Y. Rak	Tel Aviv University	Anthropology
Chapters in Human Evolution (academic course)	Y. Rak	Tel Aviv University	Anthropology
Ichthyology (academic course)	M. Goren	Tel Aviv University	Fishes and Museum Class
Biology and Systematic of Marine Invertebrates (academic course)	Y. Benayahu	Interuniversity Institute for Marine Sciences	Invertebrates
Bird Fauna (academic course)	N. Leader	Open University	Birds and Museum Class
Guiding Students	D. Bar-Yosef	University of Haifa	Molluscs
Guiding Students	G. Bar-Oz	University of Haifa	Mammals and Museum Class
Bird-Watching	T. Shariv	Avshalom Institute	Birds and Museum Class
Bird-Watching		Israeli Air Force	Birds and Museum Class
Various seminars	Elat District	Israel Nature and Parks Authority	Mammals, Birds and Museum Class
Various seminars	Nature Campus	Tel Aviv University	Mammals, Birds, Entomology and Museum Class
Guided tours to schoolchildren	Nature Campus	Tel Aviv University	Mammals, Birds, Entomology and Museum Class

Support for various individuals and organizations

The TAU natural history collections function as a national collection, by providing services to the scientific committee, as well as to other organizations and, to the best of our abilities under currently constrained conditions, also to the general public. Here we list **a sample** of the services provided by the collections in the past academic year. We apologize that the list is incomplete, but in the current conditions of under-staffing we are unable to dedicate the person-power to monitor and record all such activities.

Purpose	Name	Institute	Taxonomic group
Taxonomic guidance (learning the procedure)	V. Sepliarsky	PPIS of the ministry of Agriculture	Entomology
Taxonomy Identification		Plant Protection and Inspection Services	Entomology
Taxonomy Identification		Israel Nature and Parks Authority	Entomology
Taxonomy Identification		Tel Aviv Municipality	Entomology
Taxonomy Identification	A. Gasith	Tel Aviv University	Entomology and Invertebrates
Taxonomy Identification	E. Nevo & T. Pavlicek	University of Haifa	Entomology
Taxonomy Identification	M. Finkel	University of Haifa	Entomology
Taxonomy Identification	E. Groner	Ben-Gurion University of the Negev	Entomology
Taxonomy Identification	I. Hoffman	Ben-Gurion University of the Negev	Entomology
Taxonomy Identification	I. Renan	Ben-Gurion University of the Negev	Entomology
Taxonomy Identification	O. Shelef	Ben-Gurion University of the Negev	Entomology
Taxonomy Identification	Habtab	Ben-Gurion University of the Negev	Entomology

Purpose	Name	Institute	Taxonomic group
Taxonomy Identification	U. Shanas	Oranim Academic College	Entomology
Taxonomy Identification	E. van dan Brink	Israel Antiquity Authority	Molluscs
Taxonomy Identification	U. Galili	Israel Antiquity Authority	Molluscs
Taxonomy Identification	T. Oron	Israel Nature and Parks Authority	Molluscs
Taxonomy Identification	S. Moran	Plant Protection and Inspection Services	Molluscs
Taxonomy Identification	E. Sheffer	IOLR - Haifa	Molluscs
Taxonomy Identification	D. Knigshtein	I.M.S.	Molluscs
Taxonomy Identification	North Distric	Israel Nature and Parks Authority	Fishes
Taxonomy Identification	I. Zohar	Tel Aviv University	Fishes
Taxidermist services	D. Eilam	Tel Aviv University	Birds, Mammals and Taxidermist
Taxidermist services	A. Lotem	Tel Aviv University	Birds and Taxidermist
Taxidermist services	Y. Leshem	Tel Aviv University	Birds and Taxidermist
Taxidermist services	Nature Campus	Tel Aviv University	Mammals, Birds and Taxidermist
Taxidermist services	O. Hazofe	Israel Nature and Parks Authority	Birds and Taxidermist
Electronic Data	S. Ashkenazi U. Safriel	Hebrew University	All colections
Electronic Data	G. Fridman		Aves
Electronic Data	G. Hartman	Harvard university	Mammals
Electronic Data	A. Haver	University of Chicago	Mammals
Electronic Data	M. Meir	Tel Aviv University	Entomology
Electronic Data	Alessandro	Tel Aviv University	Entomology

Purpose	Name	Institute	Taxonomic group
Electronic Data	L. Gahanama	USA	Entomology
Shipment of Specimens	X. Turon	University of Barcelona, Spain	Invertebrates: Tunicates
Shipment of Specimens	B. S. Galil	New York	Invertebrates: Echinodermata
Shipment of Specimens	C. S. McFadden	Department of Biology, Harvey Mudd College, Claremon	Invertebrates: Soft Corals
Shipment of Specimens	S. Tambutt	Centre scientifique de Monaco	Invertebrates: Soft Corals
Shipment of Specimens	M. H. Schleyer	Oceanographic Research Institute, South African	Invertebrates: Soft Corals
Shipment of Specimens	L. van Ofwegen	National Museum of Natural History, Leiden, Netherlands	Invertebrates: Soft Corals
Shipment of Specimens	R. van Soest	Zoological Museum, University of Amsterdam	Invertebrates: Sponges
Shipment of Specimens	N. Maughan	Université de Provence, France	Entomology
Shipment of Specimens	B.D. Valentine	Sarasota, Florida	Entomology
Shipment of Specimens	C. Schmid-Egger	Staatssammlung München, Germany	Entomology
Shipment of Specimens	Ho-Yeon Han	Yonsei University, Korea	Entomology
Shipment of Specimens	B. Feldmann	Muenster, Germany	Entomology
Shipment of Specimens	W. Starke	Warendorf, Germany	Entomology
Shipment of Specimens	M. Gates	Smithsonian Institution, USA	Entomology
Shipment of Specimens	T. Assman	University of Lueneburg, Germany	Entomology
Shipment of Specimens	R. Beenen	Nieuwegein, The Netherlands	Entomology

Purpose	Name	Institute	Taxonomic group
Shipment of Specimens	M. Barclay	The Natural History Museum, England	Entomology
Shipment of Specimens	G. Broad	The Natural History Museum, England	Entomology
Shipment of Specimens	D. Quicke	Imperial College London, England	Entomology
Shipment of Specimens	M. Ünal	Abant izzet Baysal Üniversitesi, Turkey	Entomology
Shipment of Specimens	K. Rognes	University of Stavanger, Norway	Entomology
Shipment of Specimens	M. De Meyer	Royal Museum for Central Africa, Tervuren, Belgium	Entomology
Shipment of Specimens	M. Petridis	Aristotle University of Thessaloniki ,Greece	Entomology
Shipment of Specimens	M. Gates	Smithsonian Institution, Washington, USA	Entomology
Shipment of Specimens	J. Pelletier	Monnaie, France	Entomology
Shipment of Specimens	A. Velázquez de Castro	Valencia, Spain	Entomology
Shipment of Specimens	V. A. Korneyev	Schmalhausen Institute of Zoology, Ukraine	Entomology
Shipment of Specimens	G. Evans	Systematic Entomology Laboratory, Beltsville, MD, USA	Entomology
Shipment of Specimens	C.-C. Ko	National Taiwan University, Taiwan	Entomology
Shipment of Specimens	G. Nardi	Centro Nazionale per lo Studio e la Conservazione della Biodiversitá Forestale, Marmirolo, Italy	Entomology
Shipment of Specimens	P. Cerretti	Università degli Studi di Roma "La Sapienza", Roma, Italy	Entomology

Purpose	Name	Institute	Taxonomic group
Shipment of Specimens	D. Whitmore	Università degli Studi di Roma "La Sapienza", Roma, Italy	Entomology
Shipment of Specimens	B.R. Stuckenberg	Natal Museum, South Africa	Entomology
Shipment of Specimens	J. Stary	Palacky University, Czech Republic	Entomology
Shipment of Specimens	L. Davis	Gainesville, Florida	Entomology
Shipment of Specimens	M. Kadej	Department of Biodiversity and Evolutionary Taxonomy, Wrocław, Poland	Entomology
Shipment of Specimens	B. Kolics	Pannon University, Hungary	Entomology
Shipment of Specimens	A. A. Legalov	Siberian Zoological Museum, Novosibirsk, Russia	Entomology
Shipment of Specimens	H. D. López Hernández	de La Laguna, Tenerife, Spain	Entomology
Shipment of Specimens	L. Gültekin	Atatürk University, Erzurum, Turkey	Entomology
Shipment of Specimens	A. Draber-Mońko	Museum and Institute of Zoology PAS, Poland	Entomology
Shipment of Specimens	I. Winkler	University of Maryland, MD USA	Entomology
Shipment of Specimens	A. Campanaro	University of Rome "La Sapienza", Rome Italy	Entomology
Shipment of Specimens	T. Dikow	American Museum of Natural History, New York	Entomology
Shipment of Specimens	H.-Y. Han	Yonsei University, Korea	Entomology
Shipment of Specimens	Curator of the fish collection	Fish Section, National Science Museum, Japan	Fishes

Purpose	Name	Institute	Taxonomic group
Shipment of Specimens	R. Winterbottom	Department of Natural History, Royal Ontario Museum, Toronto, Canada	Fishes
Shipment of Specimens	S. L. Jewett	Division of fish, Smithsonian Institution, Washington	Fishes
Shipment of Specimens	S. Durna	Cumhuriyet University, Science and Literature Faculty, Turkey	Fishes