

Dr Amnon Freidberg – 75 years

Dr Amnon Freidberg was born in Haifa, Israel (then British Mandatory Palestine), on September 18, 1945, to Asher Oscar Freidberg (1916–1966) (repatriated from Latvia), a businessman and store owner, and Geula Freidberg (neé Katz) (1916–2016), a housewife (born in Israel to parents originating from the Austro-Hungarian Empire). Amnon studied at the Hebrew Reali High School, Haifa (1951–1963), and after graduation served in the Israeli Defence Forces (1963–1965).

Already as a child Amnon showed a strong and persistent interest in nature, animals and travel, exploring the Carmel Ridge with his friends or alone, and expanding his trips to other parts of the country as he grew older. His zoological interests were at that time focused on reptiles. As a schoolboy he already had a small collection of live local reptiles, mainly snakes. He was not permitted to keep this snake zoo at home, but it was hosted by his aunt (on his mother's side) Rivka Oppenheim, who let him keep his creepy-crawlies on her balcony. At the time, he still did not know that the rest of his life would be devoted to entomology.

Amnon started his formal studies in biology in 1965 towards a BSc degree in Tel Aviv University, where he spent his entire career. During his BSc studies (1968) he was hired by the late Prof. Jehoshua Kugler (1916–2007), the founder and the first curator of the entomological collection (now part of the Steinhardt Museum

of Natural History, Tel Aviv University (SMNHTAU)), to collect tachinid flies (Tachinidae) for Kugler's taxonomic and faunistic research. Within a short time Amnon proved himself to be an extraordinarily successful collector and supplied Kugler with many new and rare species. Amnon's relationship with Kugler remained very close and warm through the years. Indeed, Kugler was not just Amnon's tutor, but more like a father figure, particularly after Amnon's father's premature death in 1966. During this period Amnon became the leader of a group of entomologists—Kugler's students (e.g., Danny Simon, Menahem Kaplan, Fini Nachbar (later Kaplan), Avital Gasith)—who invigorated the taxonomic study of insects in Israel through their intensive collecting, observations, and publications.

Amnon completed his MSc thesis on *The fruit-flies (Tephritidae) of Israel* (1968–1971) and his PhD dissertation on the *Reproductive behavior and reproductive isolation in fruit-flies (Tephritidae)* (1972–1978) under the supervision of Kugler. After attaining his MSc degree, he undertook, together with Kugler, his first trip to East and South Africa (and indeed his first trip abroad), which lasted more than three months, in order to deepen his knowledge on the Tephritidae. They travelled through Ethiopia, Kenya, Uganda, and Tanzania in a small Volkswagen, and collected flies, predominantly Tephritidae and Tachinidae, establishing the basis for the outstanding exotic collection of Diptera at the SMNHTAU, which Amnon continued to develop throughout the years of his collecting activities. The collecting in South Africa was less successful, but the trip was particularly fruitful in other ways, as Amnon met the famous South African tephritid taxonomist Hugh Kenneth Munro (1894–1986), who became his tutor in Afrotropical fruit flies. Amnon always attributed his later success to the time he worked with Munro and on Munro's collection.

In 1979-1980 Amnon was accepted as a post-doctoral fellow to work on the insect collections of the Smithsonian Institution, Washington DC, USA. These were productive years of intensive work, together with famous dipterists (such as Curtis W. Sabrosky, Lloyd V. Knutson, Wayne N. Mathis and others) that resulted in several important publications. His work there was never completed, however, as he was urgently recalled to Israel to assume the position of a researcher at Tel Aviv University and the curator of the insect collection, following Kugler's retirement. For a short period (1987-1988) he was in charge of all the zoological collections, but for most of his life, until his retirement in 2013, he was the curator of the entomological collection. Under his leadership, the insect collection grew considerably thanks to intensive field collecting by Amnon himself, his students and technicians (20,000–50,000 specimens per year), the exchange of material with colleagues abroad, and the absorption of collections from other institutions (e.g., the Hebrew University, Jerusalem; D. Rosen's collection of The Hebrew University, Faculty of Agriculture; Y. Palmoni's collection of Bet Gordon, Deganya A; H. Bytinski-Salz's private collection; etc.).

Between 1972-2016 Amnon undertook numerous collecting trips abroad, including a round-world trip in 1993 (which was partly dedicated to working in

different collections), visiting 64 countries, some of them several times. Many of these (about 50) were purely collecting trips, whereas others were private family trips, participation in congresses and meetings, or visits to museums, collections, and colleagues; however, such trips nearly always included extensive and intensive collecting. One of Amnon's most important principles is to use any opportunity for collecting. Some of his collecting and important observations of flies were made when he was on army reserve duty. Amnon also collected in remote countries with unstudied faunas, as well as in Europe (Canary Islands, Norway, The Netherlands, Denmark, UK, France, Andorra, Spain, Gibraltar, Germany, Austria, Switzerland, Italy, Hungary, Czech Republic, Slovakia, Croatia, Slovenia, Russia, Ukraine, Greece) and the eastern USA, whose insect faunas have been well-studied – in order to enrich the SMNHTAU collection and procure representatives of as many taxa as possible, particularly Tephritidae.

Most of his collecting efforts were concentrated in Sub-Saharan Africa: Benin, Burundi, Cameroon, Ethiopia, Kenya, Madagascar, Malawi, Namibia, Nigeria, South Africa, Tanzania, Togo, Uganda and Zambia. Amnon visited most of these countries more than once, and some (like Ethiopia and Kenya) were visited every few years, with particular emphasis on mountainous areas. Southern Asia also appealed to him, and he visited India and Thailand several times, carried out extensive collecting in Nepal, Taiwan, Vietnam, and the Philippines, and occasionally visited China, Hong Kong, Singapore, and Japan. Unfortunately, for political reasons he was not permitted to enter Sri Lanka and Malaysia. In the Americas Amnon participated in expeditions to Peru, Bolivia, and Lesser Antilles (Antigua, Dominica, St. Vincent, Barbados), organized by the Smithsonian Institution, and collected intensively in Canada, USA, Mexico, and Costa Rica, mainly during family trips and scientific meetings. Amnon's visits to the Australasian Region included occasional collecting in Hawaii and in north-eastern Australia, but these were balanced by his 80-day expedition to Papua New Guinea. Amnon is particularly interested in the fauna of the East Mediterranean and collected intensively over the years throughout Israel. It is difficult, if not impossible, to name a place where he has never collected. Visiting neighbouring countries in the Near East has always been difficult to impossible due to complicated political and security situations. However, he undertook two collecting trips to Cyprus and Turkey, and visited Greece several times. He has always wanted to visit North-African and West-Asian countries, but paid only a day visit to Jordan. By contrast, the Sinai Peninsula was Amnon's hunting field when it was under Israeli control: he made about 20 visits to Sinai between 1969–1982, revisited the area several times in later years, and organized an expedition with six other Israeli entomologists in Sinai in June 1998. During the Yom Kippur War, Amnon had a rare opportunity to collect occasionally in southern Syria during his military service.

Amnon's usual approach to a collecting trip is to hire a car and drive from site to site, spending three days at most at a particular locality, in order to sample as

wide a range of habitats as possible. Occasionally he was not able to do so: in Papua New Guinea (2012–2013) it was nearly impossible because the country has very few roads, and in the Peruvian Amazon (1988) there were no roads at all, and the expedition travelled by canoe on the Rio Madre de Dios. Working in the Amazon was a great challenge for Amnon, as he was unable to leave the area or move around, but only walk and collect the same species along the same path in the forest for weeks. After a few days, he became quite bored, but then he and Wayne Mathis observed little flies walking on tree trunks and soon acquired a wonderful collection of Aulacigastridae and Odiniidae. The food at this Peruvian site was very basic: rice and flour were brought in from "civilization" and fish were caught directly in the river by the local guides. However, Amnon does not eat fish, so his diet was neither particularly nutritious nor tasty. While in Peru, Amnon's friends and colleagues organized a celebration for his birthday and surprised him with a birthday cake, stuffed with... fish. The only one who did not enjoy it was Amnon himself! Another birthday cake was prepared for Amnon in 2005 in Taita Hills, Kenya, by the local cook, following a request by Amnon's students, Liat Gidron-Heinemann and myself, who accompanied him on that trip. The cake was decorated beautifully from the outside but otherwise, it was completely inedible!

One of Amnon's life rules is "It is the persistent collecting that makes the collection vital and active; no collecting will necessarily lead to its degradation". Amnon is an extraordinary insect collector. He collects mainly by sweeping with a large net, and is able to collect and mount up to 500 specimens per day. In his best years he collected 10,000–15,000 specimens a year. However, the quantity does not come at the expense of quality. At the end of each collecting day, Amnon dedicates long hours to pinning the freshly collected specimens. He has turned the pinning of insects into a kind of art: specimens are pinned with extreme precision, directly or on double mounts, and are arranged in the box in straight rows. I recall a night of pinning in Nairobi, Kenya, after an entire day of exceptionally successful collecting in Karura Forest; it started at 8 pm, and at 2 AM I was overcome by fatigue, but when I woke up around 6 AM Amnon was still pinning. While the aesthetic aspect is important, the scientific aspect is paramount – flies are fragile, easily damaged, covered by fragile, easily-detached hairs, bristles and scales, therefore, specimens that are pinned when still fresh are the most complete. Amnon devotes much of his time to pinning even the tiniest of flies, often ignored by other collectors. Another important habit of his is to produce large series of any species, particularly of those he considers to be new or interesting. This often allowed him to base his descriptions on diverse and better understood characters, share material generously with other colleagues and distribute paratype specimens to many other museums. Often during pinning Amnon everts the ovipositors of flies, which later saves a lot of time in their identification and study. Rearing insects from their host plants is another technique widely used by Amnon, providing important information on host associations as well as undamaged specimens. He has significant botanical talent and knowledge, being able to recognize many plant families and genera, so critical for collecting

plant-feeding flies. One of the things that makes Amnon such an awesome collector is that he has such broad knowledge and interest in flies in general, he can recognize most families in the field, and when he recognizes that he collected something rare or awesome, he tries to figure out what it is doing, so that he can collect more.

Most of the specimens collected by Amnon are deposited in the SMNHTAU, apart from those collected during joint expeditions with Smithsonian scientists, of which part of the Tephritidae and most of the other families are deposited in the Smithsonian Institution. The Tachinidae collected by Amnon as a student in 1968–1970 were erroneously labelled as collected by J. Kugler.

Amnon is a taxonomist, a world-renowned specialist in Tephritidae, particularly of the Afrotropical Region. However, he has a very wide range of interests and a deep understanding of many groups of Diptera, of their taxonomy, phylogeny, life history and behaviour. In addition to publications on the Tephritidae and their relatives (Lonchaeidae, Platystomatidae, Piophilidae, Ulidiidae), Amnon has published on 25 other Diptera families, including Agromyzidae, Anthomyzidae, Asteiidae, Aulacigastridae, Bengaliidae, Canacidae, Carnidae, Cecidomyiidae, Curtonotidae, Dixidae, Ephydridae, Hippoboscidae, Lauxaniidae, Limoniidae, Micropezidae, Milichiidae, Neminidae, Periscelididae, Psilidae, Scatophagidae, Sciomyzidae, Stratiomvidae, Tachinidae, Tethinidae and Xenasteiidae. Most publications on non-Tephritoidea are faunistic papers on the Israeli fauna, and some are new taxa descriptions or revisions. It is difficult to point out Amnon's favourite families, but there is no doubt that he had a particularly strong interest in the smallest flies seldom treated by other researchers, including Asteiidae, Aulacigastridae, Carnidae, Chloropidae, Chyromyiidae, Cryptochaetidae, Drosophilidae, Marginidae, Milichiidae, Neminidae, Neurochaetidae, Sepsidae, Tethinidae, Xenasteiidae and others. In addition to his research on Diptera, Amnon participated in taxonomic, faunistic, and ecological research and publications on other insect groups, such as beetles (Apionidae, Carabidae, Chrysomelidae), bugs (Nabidae, Thaumastocoridae, Tingidae), homopterans (Dictyopharidae, Psylloidea), and hymenopterans (Formicidae), mainly together with his students and technicians.

Amnon's real love, however, are fruit flies and he has devoted most of his time and efforts to them. Tephritid taxonomy and phylogeny have been his main interest, but he has also devoted much attention to their life history, particularly to host associations. Amnon believes in integrating data on life history, behaviour and taxonomy, and that the host associations of herbivorous insects are paramount to understanding their taxonomy and phylogeny. Consequently, field collecting and observations should accompany morphological and genetic studies in the laboratory. Many of Amnon's studies have been dedicated to the behaviour of flies (which is rather unusual for a typical taxonomist), in particular to courtship and mating trophallaxis.

Amnon has a deep interest in galls and gall-inducing insects. This has been documented in several publications on Tephritidae and other flies, and manifested in training his student, Netta Dorchin, who followed in his footsteps and is today one of the world experts on gall midges (Cecidomyiidae) and Amnon's successor as chief curator of entomology at the SMNHTAU.

Amnon has published numerous faunistic works (e.g., on the fruit flies of Crete and of the Kakamega Forest in Kenya but his most important publication is probably the fundamental book on the tephritid fauna of Israel (Freidberg & Kugler 1989). He has often referred, however, to his faunistic work as secondary, perceiving taxonomic revisions to be of greater importance. Amnon has revised numerous groups of fruit flies, leaving his footprint on a wide range of higher taxa: Tephritinae: Tephritini (Freidberg 1980; Freidberg & Hancock 1989; Freidberg & Merz; 2006; Morgulis et al. 2015, 2016), Terellini (Freidberg 1979, 1985, 1999; Freidberg & Mathis 1986, 1990), Myopitini (Freidberg 1979; Freidberg & Norrbom 1990, 1999), Oedaspidini (Freidberg & Kaplan 1992), Eutretini (Freidberg & Kaplan 1993), Trypetinae: Carpomyini (DeMeyer & Freidberg 2005; Freidberg 2016), Dacinae: Ceratitidini (DeMeyer & Freidberg 2000, 2006, 2012), and Gastrozonini (Kovac et al. 2006; Freidberg et al. 2017). Amnon still has plans for the Adramini, Acanthonevrini, Gastrozonini, and particularly Tephrellini, for some of which he has more or less complete manuscripts. The picture would not be complete without a specific mention of Amnon's greatest love: the Schistopterini, a large palaeotropical group, comprising mainly minute fruit flies with peculiarly ornamented wings, mostly belonging to as yet undescribed genera and species. Amnon has collected and reared numerous species of this group in Africa, southern Asia, and Papua, and has amassed probably the largest collection in the world of these exclusive and beautiful flies. The first steps in describing new taxa within the Schistopterini and revising old ones have already been made (Freidberg 2002; Zonstein & Freidberg 2006; Freidberg et al. 2020, and Liat Gidron-Heinemann's unpublished PhD thesis under Amnon's supervision), but much more work needs to be done, hopefully by Amnon himself.

Although he focused on collecting flies, Amnon also collected intensively other insects of many orders, partly to enrich the SMNHTAU collection and promote knowledge about them, and partly as a generous favor for colleagues. Amnon has numerous friends and colleagues around the world, with whom he generously shares his knowledge, specimens and literature. Hundreds of insect taxa have been described based partly or entirely on material collected by Amnon, and it is not surprising that 102 taxa (99 species and three genera) have been named in Amnon's honor to date (9 species in this volume).

Amnon's trips and research have influenced not only the taxonomy of flies, but also politics, history, religion, and people's migration. Amnon played an important role in the returning to Israel of one of the most remote Jewish communities. During his trip to India in 1980 (together with Wayne Mathis), he was unable to obtain a visa to Sri Lanka, so changed his route and visited instead Mizoram State in northeast India. On the way, in the plane, he became aquainted with Zaithanchhungi (Zaii), an insurance agent of the Mizo tribe. Zaii and her family hosted Amnon with extraordinary hospitability and took care of him when he fell ill. Amnon invited Zaii to see him and his family in Israel, and she indeed paid him a visit in 1981. It turned

out that Zaii belonged to the tribe of Menashe (Manasseh), claiming ancestry in the ten lost tribes of Israel, a people now known as the Bnei Menashe. In Israel she met Rabbi Eliyahu Avichail, who was particularly interested in the lost tribes, and this was the start of the long process of reconversion of numerous Bnei Menashe in Mizoram and their Aliyah (= repatriation) to Israel. Now over 3,000 Bnei Menashe live in Israel, and many are preparing to arrive. When Amnon revisited Mizoram in 2006, he was treated as a celebrity by the thankfull Bnei Menashe, and accepted with nearly royal honors.

In Amnon's mind, unpublished knowledge is nearly meaningless. Therefore, he has always aimed to publish his findings and encouraged his colleagues, students and technical assistants to do so as well. During his 40-year career Amnon described 257 taxa, predominantly flies, and authored more than 150 scientific publications, including books, book chapters, catalogs, and abstracts. In his publications he has always endeavored to be as explicit as possible, producing identification keys and taxa descriptions.

Amnon has been involved in numerous agricultural and ecological projects, such as studies of the biology and control of the leaf-miner *Liriomyza trifolii* (Agromyzidae) (1982), a survey of cotton insect pests (published as a book, in Hebrew) (1984), taxonomic and biological studies on Drosophilidae (1986), Agromyzidae (1987), and Chironomidae (1993), life history, taxonomy, and control of bulb flies (Syrphidae) (1993), insect biodiversity on tamarisk (1998–2000), and climatic effects on insect populations (2001–2004). Amnon is also a pioneer in forensic entomology in Israel, who participated in several criminal investigations and trials and supervised two police officers in their MSc studies in this field.

From 1968 to 1978 Amnon served as a teaching assistant in the "Faunistic Entomology" course, established and taught by Prof. J. Kugler. After Kugler's retirement he took upon himself to teach this course (together with Danny Simon) and did so successfully until his own retirement in 2013. The course included lectures on and exhibits of living and dead insects in the lab as well as collecting trips around the country, and the preparation of a proper insect collection by each student. For years the course has been a top priority for Amnon, to which he devoted much time and thought, finding proper localities for field excursions, appropriate entomological supplies, and preparing engaging and informative lectures. The course was highly favoured by students and has always been regarded as one of the top highlights among courses offered by the Faculty of Life Sciences, although some criticized Amnon for keeping them late in class and for his lengthy lectures in the class and in the field! Amnon sought to instill as much knowledge as possible within the narrow time frames. After his retirement, the load of teaching was taken up by his former student and current chief curator of entomology in the SMNHTAU, Netta Dorchin.

At the beginning of his career Amnon was less interested in supervising students, mainly because he enjoyed doing things by himself. Later he understood the great potential in raising a new generation of co-workers, colleagues and specialists in

other groups of insects. Among his twenty MSc and PhD students are those who carried out scientific (taxonomic and biological) work and others who have since been hired as teachers, professional entomologists or biologists in government agencies as well as in the SMNHTAU. Amnon has always encouraged technical assistants in the SMNHTAU to engage in scientific work, and some of them have indeed become specialists in their groups of interest and published scientific papers.

For years Amnon was Chief Editor of the Israel Journal of Entomology (1982–1986, 1990–1998, 2005–2012), often being the only person working on the journal. Pedantic to the extreme, he always strives to achieve excellence. This task thus posed a great challenge to him and for the journal's contributing authors, but as a result the IJE persisted and flourished.

Among his numerous duties as the curator of the insect collection, Amnon also "adopted" six colleagues – new repatriants from the former USSR and Romania, and helped them to acclimate in Israel in general and in the museum in particular, taking upon himself a lot of the associated bureaucratic work. He took this task very seriously and devoted much of his personal time, realizing the invaluable contribution such trained biologists would make to the entomological staff and seeking to ease their absorption in Israel. His efforts have usually yielded wonderful results, as most of these colleagues are now part of the entomological staff in the SMNHTAU.

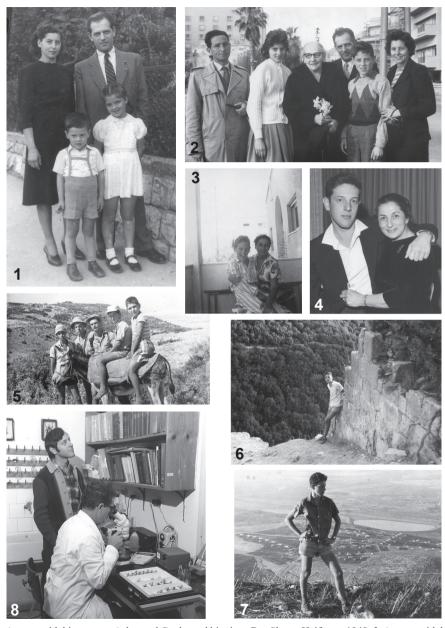
Amnon is a member of several professional societies, including the Entomological Society of Southern Africa, the Entomological Society of Israel, the Entomological Society of Washington, the Willi Hennig Society, and the Deutsche Gesellschaft für Tropenoekologie. In 2015 his immense contribution to Israeli entomology was recognized by an honorary membership in the Entomological Society of Israel.

Amnon's native tongue is Hebrew, unlike many other notable Israeli entomologists and taxonomists, who are German, Yiddish or Russian native speakers. Amnon's Hebrew is exceptionally accurate, as is his knowledge of Hebrew grammar. In the 1980s Amnon participated in the publication of the Encyclopaedia of the Fauna and Flora of Israel, edited by Kugler. He wrote some of the entries and coined many of the modern Hebrew names of insects. For many years and until recently he was a member of the Committee for Zoological Terminology of the Academy of the Hebrew Language, most recently completing the list of Hebrew terminology for all insect orders and all Diptera families in Israel.

Amnon is married to Pnina, who devotedly accompanied him on some of his trips, being an "innocent victim" of his entomological enthusiasm. Three species of flies were named in her honor by her devoted husband: *Euarestella pninae* Freidberg, 1980, *Pherbellia pninae* Knutson & Freidberg, 1983, and *Procanace pninae* Mathis & Freidberg, 1991. They have two daughters: Vered, immortalized in the name of *Sepedonea veredae* Freidberg, Knutson & Abercrombie, 1991, and Liat, honored by *Goniglossum liat* Freidberg, 2016. Amnon and Pnina have three grandchildren, Ben, Lee and Rom, who still await their patronyms.

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A.-L.-L. Friedman
The Steinhardt Museum of Natural History
Tel Aviv University, Israel

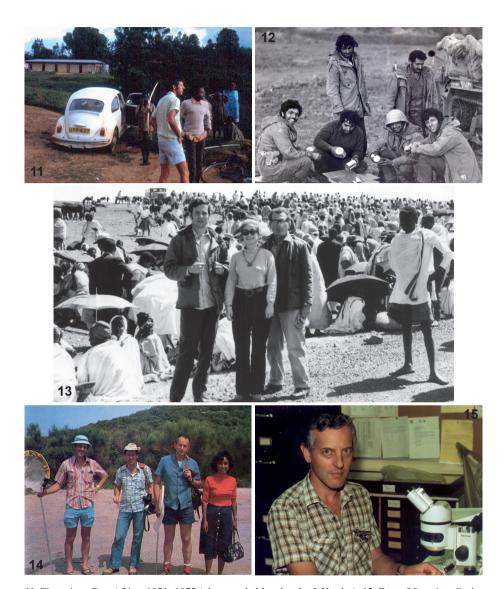


1. Amnon with his parents, Asher and Geula, and his sister Bat-Sheva. Haifa, ca. 1948; 2. Amnon with his parents, Asher and Geula, his sister Bat-Sheva and American relatives, Haifa, ca. 1957; 3. Amnon with his beloved aunt Rivka in Haifa, on the balcony where he later kept his reptiles; 4. Amnon maintained warm relationships with Rivka for many years; 5. Amnon (second from left) travelling with his friends on Carmel Mts; 6. Amnon in Montfort, Upper Galilee; 7. Amnon, probably on Carmel with Yizre'el Valley at the background; 8. Amnon with Jehoshua Kugler, Tel Aviv University, Abu Kabir. ca. 1969 (photo A. Shoob).





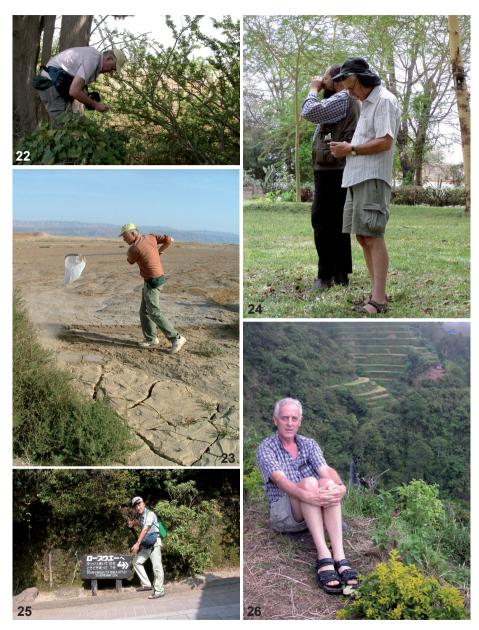
9. Kugler's 70th birthday, 1986 (from left to right, lower row: Ann Belinsky, Menahem Kaplan, Fini Kaplan (née Nachbar), Jehoshua Kugler with his grandson, Zvi Wollberg; upper row: Danny Simon, Razi Dmiel, Avital Gasith, Tova Feler, Amnon Freidberg, David Wool); 10. Kugler's 90th birthday, 2006 (Kugler is sitting; standing from left to right: David Wool, Avital Gasith, Danny Simon, Zvi Wollberg, Tova Feler, Ann Belinsky, Tamar Orion, Laibale Friedman, Amnon Freidberg). (Both photos courtesy A. Shoob)



11. First trip to East Africa, 1971–1972 (photo probably taken by J. Kugler); 12. East of Quneitra, Syria, Yom Kippur War, 1973, Amnon first on the right, sitting (*Meoneura pohlae* Stuke, 2016 and *Meoneura triangularis* Collin, 1930 (Carnidae) were collected there); 13. Ethiopia, Debre Libanos, bazaar, with Jehoshua Kugler and an unidentified Israeli tourist, 1972; 14. Upper Galilee (probably Mt. Meron), Israel, 1981 (from left to right: Amnon Freidberg, Danny Simon, Dan Gerling, Zaithanchhungi (Zaii); photo from Zaithanchhungi, 1987. *Hei le Israel*. St. Joseph's Press, Aizawl, India. 1st ed. 440 pp. [in Mizo]); 15. Amnon, as a visiting scientist, Smithsonian Institution, USA, 1988–1989.



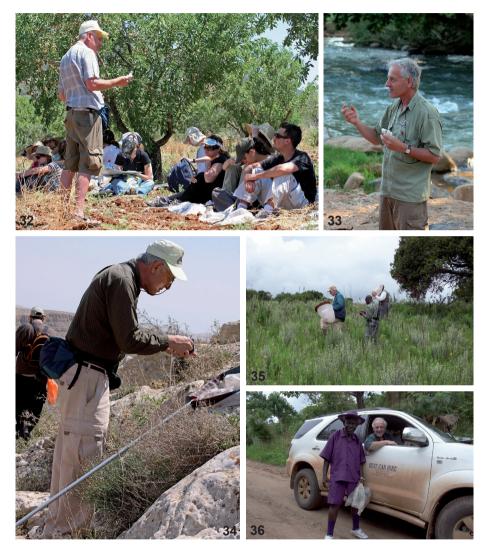
16. Amnon meeting school children, Sherman building, Tel Aviv University, ca. 1980 (photo by A. Shoob); 17. Amnon in his office 303, Sherman Building, Tel Aviv University, in which he spent at least 20 years of his career, with a student, 1992–1994; 18. Zürichberg, Switzerland, Sept. 1995 (from left to right: Valery Korneev, Amnon, Bernard Merz); 19. Amnon teaching Laibale Friedman a hard lesson, Panyas, Israel, May 2000 (photo by A. Shoob); 20. Amnon on Jebel Katarina, Sinai, Egypt, with Netta Dorchin (left) and Faraj, the local guide (below), June 1998 (photo by L. Friedman); 21. 'En Gedi, Nahal 'Arugot, May 2000 (photo by A. Shoob).



22. Amnon collecting fruit of *Bryonia cretica* (Cucurbitaceae) for rearing *Goniglossum liat* Freidberg (Tephritidae), Berekhat Ya'ar, Hadera, Israel, 2 May 2004 (photo by L. Lerner); **23.** Sweeping flies, salt marsh, Deir Hajla, Yeriho Steppes, Israel, 16 Mar. 2004 (photo by N. Dorchin); **24.** Amnon taking GPS coordinates at Hunters' Lodge, Kenya, 2005 (photo by L. Gidron-Heinemann); **25.** Amnon in Fukuoka, Japan, Sep. 2006; **26.** Philippines, Oct. 2006 (photo by P. Freidberg).



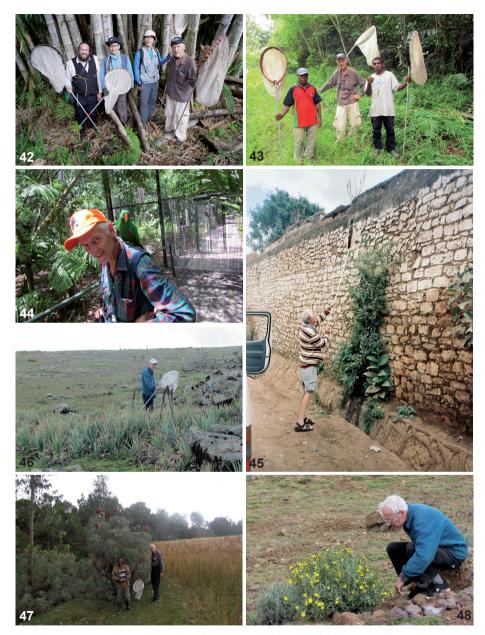
27. Searching for *Brachiopterna* (Tephritidae: Schistopterini), with Laibale Friedman (left), Nairobi-Mombasa Road, close to Nairobi, Kenya, 2005; 28. Uncomfortable pinning on the windowsill, L. Friedman pinning in the lavatory at the background, Kericho Hotel, Kericho, W. Kenya, 2005 (photos 27, 28 by L. Gidron-Heinemann); 29. Amnon in Ranomafana, Madagascar, 2007, with Liat Gidron-Heinemann, under the travellers' palm *Ravenala madagascariensis*, on which he collected a series of upside-down flies (Neurochaetidae); 30. Amnon with Christodoulos Makris, looking for new species of *Dorycera*, Nata, Cyprus, 2008 (photos 29, 30 by L. Friedman); 31. Nizzana, Israel, 3 Apr. 2009 (photo by D. Furth).



32, **33**. Amnon teaching the course *Faunistics of Insects*: (32) at the footstep of Mt. Tabor, Umm el-Ghanem, Israel, 1 June 2008; (33) on the bank of Nahal Senir, HaGoshrim, Israel, 9 May 2006; **34**. Collecting galls of *Spathulina sicula* (Tephritidae) on *Phagnalon rupestre* (Asteraceae), Teqoa, Israel, 31 Mar. 2009 (photos 32–34 by G. Wizen); **35**. Collecting under close guard of the local rangers, Nyika National Park, Malawi, 31 Dec. 2009; **36**. Nkhata Bay, Malawi, 2 Jan. 2010 (photos 35, 36 by Ho-Yeon Han).



37. Pinning at Ntchisi, Malawi, 23 Dec. 2009, (photo by Ho-Yeon Han); **38.** On the top of the dune, on the students' trip to Nizzanim, Israel, 2010 (photo probably by G. Wizen); **39.** Ofra, Israel, 27 June 2011 (from left to right: Zaithanchhungi, Pnina Freidberg, Amnon Freidberg and one of Bnei Menashe, living in Ofra, in front of her house); **40.** Searching for rare and strange *Palloptera* sp. (Pallopteridae), Nahal Nimrod, Golan Heights, Israel, 25 May 2012 (photo by N. Dorchin); **41.** Kiew Lom Viewpoint, Chiang Mai province, Thailand, 24 Nov. 2012 (photo by D. Kovac).



42–44. Papua New Guinea: (44) on a hunt for Gastrozonini, bamboo-feeding Tephritidae, Aiyura, 30 Jan. 2013; **43.** Manki Mt., Bulolo, with a driver (left) and a local student (right); **44.** Zoo in Port Moresby, Feb. 2013; **45.** Sweeping on the vegetation crawling up the ancient walls of the Old City of Harar, Ethiopia, 2007 (photos 43–45 by L. Friedman); **46–48.** Amnon in Bale Mts., Ethiopia: (46) collecting at 3900 m, 11 Dec. 2015; (47) looking for *Tephritomyia* (Tephritidae) on giant *Echinops*, 10 Dec. 2015; (48) in a very typical position, looking for Tephritidae on Asteraceae, 11 Dec. 2015 (photos 46–48 by L. Bodner).



49. David Furth, Amnon and Laibale Friedman (right to left), moving the first cart with insect boxes to the new museum building, 28 Oct. 2018 (photo by T. Feldstein-Farkash; A. Ionescu and Z. Yefremova in the background); **50.** Nahal Oren, Israel, 9 July 2019, with his faithful Gaston (photo by T. Novoselsky); **51.** Amnon in his office in the newly built museum preparing material for descriptions of new species of Oriental *Acrotaeniostola* (Tephritidae: Gastrozonini), 3 June 2020 (photo by L. Friedman).

Publications by Amnon Freidberg

1970

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(to be continued)

PROFESSIONAL TRIPS OF AMNON FREIDBERG

1971–1972 Ethiopia, Kenya, Tanzania, Uganda, South Africa (with Jehoshua Kugler)

1972 France, Spain, UK

1979 Greece, Germany, UK, Italy

1979–1980 USA (collecting trips around the country during Amnon's postdoc at the Smithsonian Institution), Canada

1980 India, Nepal

1980 Greece

1981 Greece (Rhodes, Crete)

1982 Italy

1983 Kenya, Malawi, South Africa

1983 Kenya (with Ilan Yarom)

1985 Spain

1985 USA, Mexico

1986 Kenya

1986 Hungary (Budapest, 1st International Congress of Dipterology)

1987 Hungary

1987 West Africa (Cameroon, Nigeria, with Fini Kaplan and Yoram Zvik)

1988 Peru (Amazon Region, Rio Madre de Dios, with colleagues from the Smithsonian Inst.)

1988 Canada

1989 West Indies: Lesser Antilles: Antigua, Dominica, St. Vicent, Barbados (with Wayne Mathis)

1989 Kenya, Ethiopia

1989 USA

1990 Czechoslovakia (Bratislava), 2nd International Congress of Dipterology

1991 Kenya, Madagascar (with Fini Kaplan)

1992 Kenya, Tanzania

1993 round the world: The Netherlands–USA (Washington, DC)–Hawaii–Japan (Tsukuba)–Hong Kong–China (Beijing)–Taiwan–Singapore–Thailand

1994 Norway

1994 Canada (Guelph, 3rd International Congress of Dipterology)

1994-1995 South Africa

1995 Switzerland

1995-1996 Kenya, Uganda

1996 Mexico (Xalapa)

1996 Egypt (Taba), Jordan (Petra)

1996 Kenya-Tanzania (with Yariv Malihi)

1997 Hungary

1998 UK (Oxford, 4th International Congress of Dipterology)

1998 Denmark

1998 Mexico, USA

1998 Malawi, Kenya (with Fini Kaplan)

1998 Egypt (Sinai) (with Fini Kaplan, Netta Dorchin, Laibale Friedman, Vladimir Chikatunov and Tomás Pavlíček)

1999 Germany

2000 Ethiopia (with Ilan Yarom)

2000 Turkey (with Laibale Friedman and Hanan Ackerman)

2001 USA (Arizona, Nevada, California)

2001 Bolivia (with Wayne Mathis)

2001 Costa Rica (with Wayne Mathis)

2002 Singapore, Thailand, India, Australia (Brisbane, 5th International Congress of Dipterology)

2003 Germany (Frankfurt)

2003 Kenya, Tanzania (with Laibale Friedman and Sergey Kleinberg), South Africa and Namibia (with Netta Dorchin), Ethiopia

2004 Austria, Hungary

2005 Austria, Hungary, Croatia, Slovenia, Italy (Gaeta)

2005 Kenya (with Laibale Friedman and Liat Gidron-Heinemann), Ethiopia (with L. Friedman)

2006 Hong Kong, Japan (Fukuoka, 6th International Congress of Dipterology), Philippines, India

2006 Cyprus

2007 Kenya and Ethiopia (with Laibale Friedman), Madagascar (with Laibale Friedman and Liat Gidron-Heinemann)

2007 Spain

2008 Cyprus (with Laibale Friedman)

2009 Italy, Germany

2009 Malawi (with Laibale Friedman and Ho-Yeon Han)

2010 USA (Montana)

2010 Costa Rica, 7th International Congress of Dipterology 2010 Russia, Ukraine (with Elizabeth Morgulis)

2010-2011 Benin, Togo, Kenya, Burundi

2012–2013 Vietnam and Thailand (with Damir Kovac), Papua New Guinea (with Laibale Friedman and Ho-Yeon Han)

2013 Kenya, Ethiopia, Cameroon (with Elizabeth Morgulis and Ashley Kirk-Spriggs)

2013 Spain (Tenerife)

2013 Austria

2014 Austria, Italy, Germany (Potsdam, 8th International Congress of Dipterology)

2015 Canada (Vancouver), USA (Alaska)

2015 Ethiopia (with Levona Bodner)

2016 Czech Republic, Austria, Greece, Turkey

TAXA DESCRIBED BY AMNON FREIDBERG

Urophora hermonis Freidberg, 1974 (Diptera: Tephritidae) Isoconia negeviana Freidberg, 1974 (Diptera: Tephritidae)

Oxyna superflava Freidberg, 1974 (Diptera: Tephritidae)

Euarestella kugleri Freidberg, 1974 (Diptera: Tephritidae)

Tephritis israelis Freidberg, 1974 (Diptera: Tephritidae)

Trupanea erigeroni Freidberg, 1974 (Diptera: Tephritidae)

Trupanea pseudoamoena Freidberg, 1974 (Diptera: Tephritidae)

Hyalotephritis Freidberg, 1979 (Diptera: Tephritidae)

Tephritites Freidberg, 1979 (Diptera: Tephritidae)

Stephanotripeta vittata Freidberg, 1979 (Diptera: Tephritidae)

Myopites apicata Freidberg, 1980 (Diptera: Tephritidae)

Nesopsilopa wirthi Mathis & Freidberg, 1980 (Diptera: Ephydridae)

Goniurellia spinifera Freidberg, 1980 (Diptera: Tephritidae)

Goniurellia omissa Freidberg, 1980 (Diptera: Tephritidae)

Goniurellia persignata Freidberg, 1980 (Diptera: Tephritidae)

Goniurellia cevlonensis Freidberg, 1980 (Diptera: Tephritidae) Goniurellia munroi Freidberg, 1980 (Diptera: Tephritidae)

Goniurellia longicauda Freidberg, 1980 (Diptera: Tephritidae)

Euarestella pninae Freidberg, 1980 (Diptera: Tephritidae)

Tephritis bimaculata Freidberg, 1980 (Diptera: Tephritidae)

Tephritis hurvitzi Freidberg, 1980 (Diptera: Tephritidae)

Tephritis jabeliae Freidberg, 1980 (Diptera: Tephritidae)

Capitites Foote & Freidberg, 1980 (Diptera: Tephritidae)

Urophora neuenschwanderi Freidberg, 1982 (Diptera: Tephritidae)

Terellia sabroskyi Freidberg, 1982 (Diptera: Tephritidae) Xanthocanace kaplanorum Mathis & Freidberg, 1982 (Diptera: Canacidae)

Xanthocanace sabroskyi Mathis & Freidberg, 1982 (Diptera: Canacidae)

Pherbellia hermonensis Knutson & Freidberg, 1983 (Diptera: Sciomyzidae)

Pherbellia pninae Knutson & Freidberg, 1983 (Diptera: Sciomyzidae)

Pherbellia priscillae Knutson & Freidberg, 1983 (Diptera: Sciomyzidae)

Craspedoxantha milleri Freidberg, 1985 (Diptera: Tephritidae)

Craspedoxantha vernoniae Freidberg, 1985 (Diptera: Tephritidae)

Craspedoxantha yaromi Freidberg, 1985 (Diptera: Tephritidae)

Mycterella luteifasciata Yarom, Freidberg & Papp, 1986 (Diptera: Lauxaniidae)

Mycterella nigra Yarom, Freidberg & Papp, 1986 (Diptera: Lauxaniidae)

Neorelia Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota aenigma Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota albiseta Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota appendiculata Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota callistigma Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota footei Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota isochela Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota pubescens Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Neaspilota stecki Freidberg & Mathis, 1986 (Diptera: Tephritidae)

Orthocanthoides Freidberg, 1987 (Diptera: Tephritidae)

Orthocanthoides aristae Freidberg, 1987 (Diptera: Tephritidae)

Cryptophorellia Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia elongatula Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia flava Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia longicauda Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia madagascariensis Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia minuta Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia montana Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia munroi Freidberg & Hancock, 1989 (Diptera: Tephritidae)

Cryptophorellia prairiensis Freidberg & Hancock, 1989 (Diptera: Tephritidae)

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Cryptophorellia stenoptera Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Cryptophorellia stuckenbergi Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Cryptophorellia tarsata Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Cryptophorellia trivittata Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Cryptophorellia vumbaensis Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Cryptophorellia zombaensis Freidberg & Hancock, 1989 (Diptera: Tephritidae)
Craspedoxantha bafut Freidberg & Mathis, 1990 (Diptera: Tephritidae)
Minettia czernyi Freidberg & Yarom, 1990 (Diptera: Lauxaniidae)
Minettia galil Freidberg & Yarom, 1990 (Diptera: Lauxaniidae)
Sepedonea incipiens Freidberg, Knutson & Abercrombie, 1991 (Diptera: Sciomyzidae)
Sepedonea neffi Freidberg, Knutson & Abercrombie, 1991 (Diptera: Sciomyzidae)
Sepedonea trichotypa Freidberg, Knutson & Abercrombie, 1991 (Diptera: Sciomyzidae)
Sepedonea veredae Freidberg, Knutson & Abercrombie, 1991 (Diptera: Sciomyzidae)
Canace zvuv Mathis & Freidberg, 1991 (Diptera: Canacidae)
Nocticanace littorea Mathis & Freidberg, 1991 (Diptera: Canacidae)
Procanace canzonerii Mathis & Freidberg, 1991 (Diptera: Canacidae)
Procanace pninae Mathis & Freidberg, 1991 (Diptera: Canacidae)
Ceratitis brachychaeta Freidberg, 1991 (Diptera: Tephritidae)
Dixa kaplani Wagner, Freidberg & Ortal, 1992 (Diptera: Dixidae)
Dixa punctata Wagner, Freidberg & Ortal, 1992 (Diptera: Dixidae)
Oedaspis amani Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis congoensis Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis hyalibasis Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis montana Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
   (renamed as Oedaspis fini Freidberg, 1994)
Oedaspis nyx Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis pulcheivora Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis reducta Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis reticulata Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Oedaspis serrata Freidberg & Kaplan, 1992 (Diptera: Tephritidae)
Amygdalop rufior Roháček & Freidberg, 1993 (Diptera: Anthomyzidae)
Anagnota coccinea Roháček & Freidberg, 1993 (Diptera: Anthomyzidae)
Anagnota major Roháček & Freidberg, 1993 (Diptera: Anthomyzidae)
Anthomyza receptrix Roháček & Freidberg, 1993 (Diptera: Anthomyzidae)
Cercagnotha Roháček & Freidberg, 1993 (Diptera: Anthomyzidae)
Tarchonanthea Freidberg & Kaplan, 1993 (Diptera: Tephritidae)
Tarchonanthea coleoptrata Freidberg & Kaplan, 1993 (Diptera: Tephritidae)
Notommoides albida Freidberg, 1994 (Diptera: Tephritidae)
Pseudomyoleja Han & Freidberg, 1994 (Diptera: Tephritidae)
Pseudomyoleja flavicrus Han & Freidberg, 1994 (Diptera: Tephritidae)
Pseudomyoleja nigricrus Han & Freidberg, 1994 (Diptera: Tephritidae)
Xenasteia shalam Freidberg, 1994 (Diptera: Xenasteidae)
Nemula Freidberg, 1994 (Diptera: Neminidae)
Nemula argentata Freidberg, 1994 (Diptera: Neminidae)
Nemula longarista Freidberg, 1994 (Diptera: Neminidae)
Nemula major Freidberg, 1994 (Diptera: Neminidae)
Aulacigaster mcalpinei Mathis & Freidberg, 1994 (Diptera: Aulacigastridae)
Aulacigaster neoleucopeza Mathis & Freidberg, 1994 (Diptera: Aulacigastridae)
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