



*80th birthday and 60th anniversary  
of the scientific and editorial work of*

*Prof. dr. Jerzy Józefat Lipa*

*A Full Member of the Polish Academy of Sciences  
and the Polish Academy of Skills*

*Sixty years ago, a young Warsaw University graduate  
was hired as an assistant at the Institute of Plant Protection.*

*Last year Prof. J.J. Lipa celebrated his 80th birthday.*

*This year will mark the 60th year of his involvement in science and publishing.*

Prof. Jerzy Józefat Lipa was born on November 14, 1932 in Bychawa (the Lubelskie voivodeship). He attended secondary school in Gawrolin, and went on to graduate from the Faculty of Biology and Earth Sciences of the former Warsaw University, specializing in zoology and parasitology.

At the age of 21, Prof. Lipa began to do research work at the Institute of Plant Protection in Puławy (October 1, 1953) as an assistant followed by a senior assistant position (1953–1959). In 1960 he moved to Poznań and started working at the Institute of Plant Protection. He continued on as: Head of the Department for Biological Control (1960–1966); Head of the Department of Plant Disease and Pest Control Methods (1967–1991); and then as Head of the Department for Biological Methods and Quarantine (1991–2002).

He received his Ph.D. in agricultural and forestry sciences in 1962 from the Agricultural Faculty of the former College of Agriculture (now called the Poznań University

of Life Sciences). In 1967, Prof. Lipa was granted the degree of Doctor Habilitatus. He did his habilitation dissertation at the Institute of Applied Biology of the College of Agriculture in Poznań. In 1972, he became an Associated Professor, and then in 1979 he was granted the title of Full Professor.

Prof. J.J. Lipa carried out extended research in Poland, USA (1958–1959), the former Soviet Union (1965–1966), Finland (1990–1991), Spain (1992, 1997) as well as Central America, Africa and Asia. Due to his high creativity and professionalism, Prof. Lipa recognized and determined factors influencing the process of natural reduction in populations of numerous arthropoda species of agricultural, forestry, veterinary and medical importance. Prof. Lipa has described a large number of insect, mite and other arthropoda diseases caused by viruses, protozoans, fungi, nematodes, and spiroplasmas as a new group of arthropoda pathogens.

Prof. Lipa and his team were the first ones to initiate and undertake research on biological weed control in

Poland. Later, he continued this work in other European countries. As a result of this research, a monograph entitled "Insects and Mites Associated with Cultivated and Weedy Cruciferous Plants in Poland and Central Europe" was issued in 1977. The monograph was awarded the Medal of the International Congress of Plant Protection, in 1982 at Brighton.

The scientific output of Prof. J.J. Lipa includes 1,172 works, including 6 monographs, 208 scientific dissertations, 31 books or their chapters, 571 research papers, and 15 books – translated or edited.

Within the group of books related to pathology and microbiological control, the following deserve special notice: "Insect Pathology: An Advanced Treatise" (1963), "Zarys Patologii Owadów" (1967), "Zatrucia Pszczół" (1969), "Microbial Control of Insects and Mites" (1971), "An Outline of Insect Pathology" (1975), "Biological Pest Control – The Glasshouse Experience" (1984), "Chrysomelidae Biology" (1996) and "Integrated Pest and Disease Management in Greenhouse Crops" (1999).

Among the books on applied entomology, biological control, and general plant protection measures, the following: "Pestycydy w Środowisku" (1971), "Biologiczne Sredstwa Zaszczity Rasteni" (1974), "Zarys Entomologii" (1976), "Biologiczne Metody Walki ze Szkodnikami Roślin" (1978), "Klucz do Oznaczania Szkodników na Podstawie Uszkodzeń Roślin" (1980), and "Agrofauna Europy" (1994) are of special value to students, university lecturers, and Plant Health and Seed Inspection workers.

There were many important accomplishments of Prof. Lipa in the area of basic research and in the carrying out of biological control methods, both in Poland and European countries. The most important are:

- his studies on cutworms (Noctuidae: Lepidoptera) and pathogenicity mechanisms in caterpillars of *Agrotis* spp. and *Spodoptera* spp. characterized as mixed infection of microsporidia with viruses and bacteria;
- his studies on gregarine fauna and other protozoans parasitizing insects, mites, and other Myriapoda in Poland and other EU and non-EU countries;
- his discovery that the rapid decrease in the number of *Totrix viridiana* at the Niepołomicka Forest (1970–1974) was the result of epizootic caused by four species of microsporidia: *Nosema tortritis*, *Octospora viridiana*, *Thelohania weiseri*, and *Plistophora* sp. The research results revealed the importance of microsporidia in controlling green oak leaf roller. This finding has been illustrated in numerous literature entries;
- the first report on the occurrence of *Aceria drabae* (Acarina, Eriophyidae) on *Cardaria draba* (Cruciferae) and the utility of the mite in biological control of the weed species;
- his studies on the occurrence of the Protozoa species: *Nosema melighethi*, (Microsporidia) parasitizing the pollen beetle (*Melighetes aeneus*) in Europe;
- his findings on the occurrence of spiroplasmas in the Colorado beetle (*Leptinotarsa decemlineata*) in Europe, and the first report on the presence of spiroplasma in lepidopterans and the species *Stilpnobia salicis*;

- participation in research and implementation work on the biological control of mites in greenhouse grown crops with the introduced predatory mite *Phytoseiulus persimilis* (team award from the Minister of Higher Education, Science, and Technology in 1976);
- his R&D participation in the work on the development of domestic production of entomopathogenic biopreparations based on the bacteria species *Bacillus thuringiensis* and their implementation for the control of caterpillars of noxious lepidopterans (presented with an award from the Minister of Agriculture and Forestry in 1978);
- his participation in research and implementation work on the domestic production of biopreparation based on the entomopathogenic nematode *Steinernema feltiae* used for biological control of pests in greenhouses and in mushroom-growing cellars (team award from the Minister of Agriculture and Food Economy in 1996);
- his participation in the development of four patents: (1) the Polish bacterial biopreparation Bacillan (P24614 1985); (2) the viral biopreparation Virin-LS (PL 165936 1995); (3) application methods of the biopreparation Virin-LS (PL 165927 1995); and (4) the bacterial and garlic biopreparation Albak (PL 167237 1995).

Eight Ph.D. students did their dissertations under Prof. Lipa. Six of his co-workers obtained the degree of Associate Professor (Doctor Habilitatus), and four other were appointed the title of Professor. Prof. Lipa has been an initiator and organizer of numerous domestic and international scientific conferences and symposia on integrated plant protection methods as well as invertebrate pathology.

Prof. J.J. Lipa has been a member of the Committee of Plant Protection of the Polish Academy of Sciences since 1962, and from 1996 to 2006 he served as President. He has also been a member of: the "Biotechnology Committee", and the committee called "Men and the Environment". He was a member of numerous Scientific Councils, including: The Institute of Plant Protection (Chairman 1995–1998), The Research Centre for Agricultural and Forest Environment (Chairman 1996–2011), The Institute of Plant Genetics of the Polish Academy of Sciences in Poznań (Chairman 2007–2011).

Prof. Lipa was the vice-editor of the journal "Materiały Sesji Naukowej IOR" from its first edition in 1976 until 1995. The name of the journal was then changed to "Progress in Plant Protection/Postępy w Ochronie Roślin" and Prof. Lipa continued in his role as the vice-editor from 1996 to 2008.

From 1970 to 1991 Prof. J.J. Lipa was the vice-editor of the journal "Roczniki Nauk Rolniczych Seria E – Ochrona Roślin". After the journal's name was changed to "Annals of Agricultural Science Series E – Plant Protection", he became a member of the Editorial Board from 1996 to 1999.

From 1997 to 2000, Prof. Lipa was the vice-editor of the "Journal of Plant Protection Research", and in 2001–2007 he acted as the Editor-in-Chief. He was also a member of the Editorial Board of the journal "Biocontrol Science and

Technology” and he participated in the work of the Editorial Committees of “Polskie Pismo Entomologiczne”, “Wiadomości Entomologiczne”, and the “Journal of Invertebrate Pathology”.

Prof. J.J. Lipa was a member of the Executive Committee of the International Organization for Biological Control (IOBC/EPRS) from 1983 till 1989. As a founder of this Organization, he served as Vice-President during the first two terms (1976–1982). Since 2010, Prof. Lipa has been a Honorary Member of the IOBC Global. For over 20 years, he was also a member of WHO/FAO Panel of Experts on Integrated Pest Management (1962–1987).

The Polish Academy of Sciences granted Prof. Lipa the titles of Corresponding Member in 1998 and Full Member in 2010, while the Polish Academy of Skills appointed him a member in 2000. Prof. Lipa has been a member of six foreign academies: The Indian Academy of Zoology (1987), The Russian Academy of Agricultural Sciences (1997), The New York Academy of Sciences (1997), The Georgian

Academy of Ecological Sciences (1998), The Royal Swedish Academy of Agriculture and Forestry (1999), and The Ukrainian Academy of Agrarian Sciences (1999). He has also held Honorary Membership in the Finish Entomological Society (1980), the Russian Entomological Society (1996), and the Polish Entomological Society (1998).

Due to his enormous scientific achievements, and contributions to the development of plant protection in Poland, Prof. Lipa has been awarded the highest national distinctions: The Silver Cross of Merit (1971) The Order of the Rebirth of Poland – fifth class (1984), and The Order of the Rebirth of Poland – third class (2003). In addition, Prof. Lipa has been granted distinctions from the Ministry of Higher Education, Science and Technology (1976), the Ministry of Agriculture and Forestry (1978), the Ministry of Agriculture and Food Economy (1996) and a lot of other Polish institutions and societies. Moreover, Prof. Lipa has been awarded medals from: The International Congresses – IUPAC (Helsinki 1974) and IPPC (Brighton 1982).

*As a long-standing Editor-in-Chief of the Journal of Plant Protection Research, Prof. J.J. Lipa significantly contributed to the scientific and editorial development of the Journal. Knowledge about Professor's scientific and publishing achievements illustrates his exceptional personality only to some extent. Prof. Lipa is a person with high standards and of ethical and professional behavior. He is always friendly and available to help others with their scientific work, especially younger colleagues who need his help and advice. To many of us, Prof. J.J. Lipa is a wonderful Mentor and Tutor and unreachable example of scientist and friendly person.*

*Henryk Pospieszny, Editor-in-Chief JPPR  
Danuta Wolna, Managing Editor*

