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Professional Career

1969 Doctoral Degree at University of Vienna

1969 – 1971 Full time Assistant at Scottish Marine Biological Association in Oban

1972 – 1984 Assistant at the Zoological Institute of the University of Vienna

1984 Habilitation (DSc.) at the University of Vienna

Since 1984 Head of Department of Ultrastructure Research

1990 Title of “Ausserordentlicher Universitätsprofessor”

1996 – 1999 Deputy Head of Institute of Zoology at the University of Vienna

2005 – 2008 Head of the Core Facility of Cell Imaging and Ultrastructure Research

2008 Retirement

Teaching

PP Submikroskopische Anatomie und Präparationstechnik

SE für Masterstudierende, DissertantInnen

Membership in Scientific Societies

ASEM – Austrian Society for Electron Microscopy

ESM – European Microscopy Society

DGE – Deutsche Gesellschaft für Elektronenmikroskopie

DZG – Deutsche Zoologische Gesellschaft

Crustacean Society

List of Publications (selection)

Hatching glands in cephalopods – a comparative study. / Cyran, Norbert, Staedler Yannick, Schönenberger Jürg, Klepal, Waltraud, von Byern, Janek. Zoologischer Anzeiger 253, 2013, S. 66-82

Morphology of the Cement Apparatus and the Cement of the Buoy Barnacle *Dosima fascicularis* (Crustacea, Cirripedia, Thoracica, Lepadidae). / Zheden, Vanessa (Korresp. AutorIn); Von Byern, Janek; Kerbl, Alexandra; Leisch, Nikolaus; Städler, Yannick; Grunwald, Ingo; Power, Anne Marie; Klepal, Waltraud.
Biological Bulletin, Band 223, Nr. 2, 2012, S. 192-204.

Unusual adhesive production system in the barnacle *Lepas anatifera*: An ultrastructural and histochemical investigation. / Jonker, Jaimie (Korresp. AutorIn); Von Byern, Janek; Flammang, Patrick; Klepal, Waltraud; Power, Anne Marie. Journal of Morphology, Band 273, Nr. 12, 2012, S. 1377-1391.

Ultrastructural characterization of the adhesive organ of *Idiosepius biserialis* and *Idiosepius pygmaeus* (Mollusca: Cephalopoda). / Cyran, Norbert; Klepal, Waltraud; von Byern, Janek.
Journal of the Marine Biological Association of the United Kingdom 91 (7), 2011, S. 1499-1510.

Mechanisms of adhesion in adult barnacles. / Power, Anne Marie; Klepal, Waltraud; Zheden, Vanessa; Jonker, Jaimie; McEvilly, Paul; Von Byern, Janek, 2010 S.153-168.. In: Biological Adhesive Systems (von Byern, J. & I.Grunwald Eds.) Springer, Wien, New York, xi+305pp.

Structural peculiarities of the penis of *Semibalanus balanoides* (Linnaeus, 1767) and *Chthamalus stellatus* (Poli, 1791) (Crustacea: Cirripedia: Thoracica). / Klepal, Waltraud; Rentenberger, Christian; Zheden, Vanessa; Gruber, Daniela. Journal of Experimental Marine Biology and Ecology, Band 392, Nr. 1-2, 2010, S. 228-233.

Natural cyclic degeneration by a sequence of programmed cell death modes in *Semibalanus balanoides* (Linnaeus, 1767) (Crustacea, Cirripedia Thoracica) / Klepal, Waltraud; Gruber, Daniela; Pflugfelder, Bettina.
Zoomorphology: an international journal of comparative and functional morphology, Band 127, Nr. 1, 2008, S. 49-58.

Apoptosis in a tissue-like culture model of human colorectal adenoma cells. / Leuhuber, K; Klepal, W; Hausott, B; Marian, B. Tissue and Cell, Band 38, Nr. 3, 06.2006, S. 203-208.

Mechanisms of cadmium toxicity in terrestrial pulmonates: Programmed cell death and metallothionein overload. / Chabicovsky, M; Klepal, W; Dallinger, R.Environmental Toxicology and Chemistry, Band 23, Nr. 3, 03.2004, S. 648-655.

Ultrastructural study of spermatogenesis in *Phoronopsis harmeri* (Lophophorata, Phoronida). / Reunov, A; Klepal, W. Helgoland Marine Research, Band 58, Nr. 1, 02.2004, S. 1-10.

Ultrastructural investigations of euspermatogenesis and euspermatozoa in *Cerithidea obtusa* (Lamarck 1822) (Caenogastropoda : Potamididae). / Suwanjarat, J; Klepal, W. Marine Ecology, Band 22, Nr. 1-2, 05.2001, S. 23-34.

Spermatogenesis and spermatozoa of *Aspidosiphon-muelleri* (Sipunculida) - an ultrastructural study. / Klepal, W. Journal of Submicroscopic Cytology and Pathology, Band 25, Nr. 2, 04.1993, S. 203-212.

The fundamentals of insemination in Cirripedes. / Klepal, W. Oceanography and Marine Biology, Band 28, 1990, S. 353-379.

A review of the comparative anatomy of the males in cirripedes. / Klepal, W. Oceanography and Marine Biology, Band 25, 1987, S. 285-351.

***Ibla-cumingi* (Crustacea, Cirripedia) - a gonochoristic species (anatomy, dwarfing and systematic implications).** / Klepal, W. Marine Ecology, Band 6, Nr. 2, 1985, s. 89-119.

Morphogenesis and variability of cuticular structures in the genus *Ibla* (Crustacea, Cirripedia). / Klepal, W. Zoologica Scripta: An International Journal of Systematic Zoology, Band 12, Nr. 2, 1983, s. 115-125.

Ultrastructure of the epidermis and cuticle during the moult-intermoult cycle in 2 species of adult barnacles. / Koulisch, S; Klepal, W. Journal of Experimental Marine Biology and Ecology, Band 49, Nr. 2-3, 1981, S. 121-149.

Morphology and differentiation of non-sensory cuticular structures in Mysidacea, Cumacea and Tanaidacea (Crustacea, Peracarida). / Klepal, W; Kastner, R. Zoologica Scripta: an International Journal of Systematic Zoology, Band 9, Nr. 4, 1980, S. 271-281.

Studies on the reproduction of cirripedes .7. Formation and fine-structure of the fertilization membrane and egg case. / Klepal, W; Barnes, H; Barnes, M. Journal of Experimental Marine Biology and Ecology, Band 36, Nr. 1, 1979, S. 53-78.

Ultrastructural study of formation of exoskeleton of stage I and stage II cirripede nauplii during embryonic-development. / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 32, Nr. 3, 1978, S. 241-257.

Studies on reproduction of cirripedes .1. Introduction, copulation, release of oocytes, and formation of egg lamellae. / Barnes, H; Barnes, M; Klepal, W. Journal of Experimental Marine Biology and Ecology, Band 27, Nr. 3, 1977, S. 195-218.

Studies on reproduction of cirripedes .5. *Pollicipes cornucopia* Leach and *Balanus balanus* (L.) - Electron-microscope investigation of structure of oviducal sacs. / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 27, Nr. 3, 1977, S. 261-287.

Studies on reproduction of cirripedes .6. Passage of spermatozoa into oviducal sac and closure of pores. / Klepal, W; Barnes, H; Barnes, M. Journal of Experimental Marine Biology and Ecology, Band 27, Nr. 3, 1977, S. 289-304.

Organic and inorganic composition of some cirripede shells. / Barnes, H; Klepal, W; Mitchell, B. Journal of Experimental Marine Biology and Ecology, Band 21, Nr. 2, 1976, S. 119-127.

Transmission of radiation through cirripede shells - its relation to penetration of endolithic algae and photic responses. / Barnes, H; Klepal, W. Journal of Experimental Marine Biology and Ecology, Band 21, Nr. 3, 1976, S. 235-248.

Further observations on ecology of *Chthamalus depressus* (Poli). / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 17, Nr. 3, 1975, S. 269-296.

Histological and scanning electron-microscope study of formation of wall plates in *Chthamalus-depressus* (Poli). / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 20, Nr. 2, 1975, S. 183-198.

Structure of wall plate in *Chthamalus-depressus* (Poli). / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 20, Nr. 3, 1975, S. 265-285.

Fine-structure and possible function of sensory setae of penis of *Balanus-balanoides* (L.). / Munn, E; Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 14, Nr. 2, 1974, S. 89-98.

General biology of *Verruca-stroemia* (Müller) .4. Effect of salinity and temperature on survival, behaviour, and osmotic relations. / Barnes, H; Klepal, W. Journal of Experimental Marine Biology and Ecology, Band 14, Nr. 1, 1974, S. 37-46.

Regeneration of penis in *balanus-balanoides* (L.). / Klepal, W; Barnes, H. Journal of Experimental Marine Biology and Ecology, Band 16, Nr. 3, 1974, S. 205-211.