SOMSO MODELLE SINCE 1876

Zoology + Botany Catalogue A 75/2+3

Nature is our Model

SOMSO
MODELLE
SINCE 1876

The catalogue

On 17th July 1876 Messrs Marcus Sommer SOMSO Modelle was founded. The catalogue A 75/2+3 had been published during the 130th anniversary year of SOMSO Modelle.

In this catalogue you will find a special selection of original SOMSO Models. You will find further SOMSO Models on the Internet under www.somso.de.

By registering on our mailing list you will automatically receive information on new publications and further information on new models SOMSO Models.

Please register at www.somso.de or contact one of our specialist trading partners.

Important Information:

1. SOMSO Modelle are protected by copyright. The copying of SOMSO Modelle is prohibited and protected by law.

2. Close co-operation with scientific institutions ensures that SOMSO Modelle always demonstrates state-of-the-art scientific knowledge.

3. SOMSO Modelle - since 1876 highly accurate teaching aids for schools and science - are made of durable and recyclable SOMSO-Plast, except those models without the suffix 'S' e.g. A 19/1 which are produced in plaster, which is less durable.

4. Where finishes, measurements and weights have been changed this is due to technical or scientific improvements. SOMSO Modelle are delivered with a description key written in close co-operation with our scientific advisers.

5. Functional models help to explain physiological processes. All functional models are marked with (F) in this catalogue. Functional models are subject to wear dependent on the material from which they are made.

6. SOMSO Modelle are outstanding for their natural presentation, assembly and attention to detail.

7. SOMSO Modelle are predominantly handmade by our highly qualified and skilled workforce in Sonneberg and Coburg.

SOMSO Models right on your doorstep

Our trading partners are selected companies providing a good service. You can get information about trading partners in your area under the dealer search column on our Internet page www.somso.de or by calling our service line +49 (0) 9561 85740 Mondays to Fridays 7 a.m. to 5 p.m.

Delivery service

Once you have made your choice and have ordered one of our SOMSO Models from one of our trading partners, you can rest assured that everything will be delivered in with the utmost of care. Our partners' philosophy is to provide models of high quality.

SOMSO-Service

Our trading partners will be only too pleased to be available to you and are already looking forward to getting to know you. No matter whether you are interested in just a single model or planning new projects, our service covers:

- *consultancy and planning*
- *spare parts*
- *repair service in close co-operation with SOMSO*

SOMSO Models on the Internet

You can see and get a clear impression of our SOMSO Models and our company philosophy by visiting our website www.somso.de.

These pages give you information about our anatomical, zoological and botanical SOMSO Models.

You will also find background information on our company, its history, news and press reports and dates and times when you will find us at fairs and exhibitions. We are already looking forward to your visit.

Have fun when surfing!

SINCE 1876

Nature is our Model

»Only equals can recognize each other.« A memorable statement by Eckehard, the great German philosopher. Briefly it illustrates a perception and therefore reduces the main part of each learning process to a common denominator. Biology lessons are concerned, above all, with the recognition and relationship of structures.

Whether human, animal or plant - the closer the model or illustration is to real life, the easier the student can understand or recognise it.

Understanding means touching and seeing - the physical dimension joining the abstract. SOMSO Modelle offer both.

»Nature is our model« - with regard to production means that we are meticulous down to the smallest detail - in both form and scientific accuracy.

The aesthetic appeal enhances the scientific accuracy of these superb SOMSO Modelle.

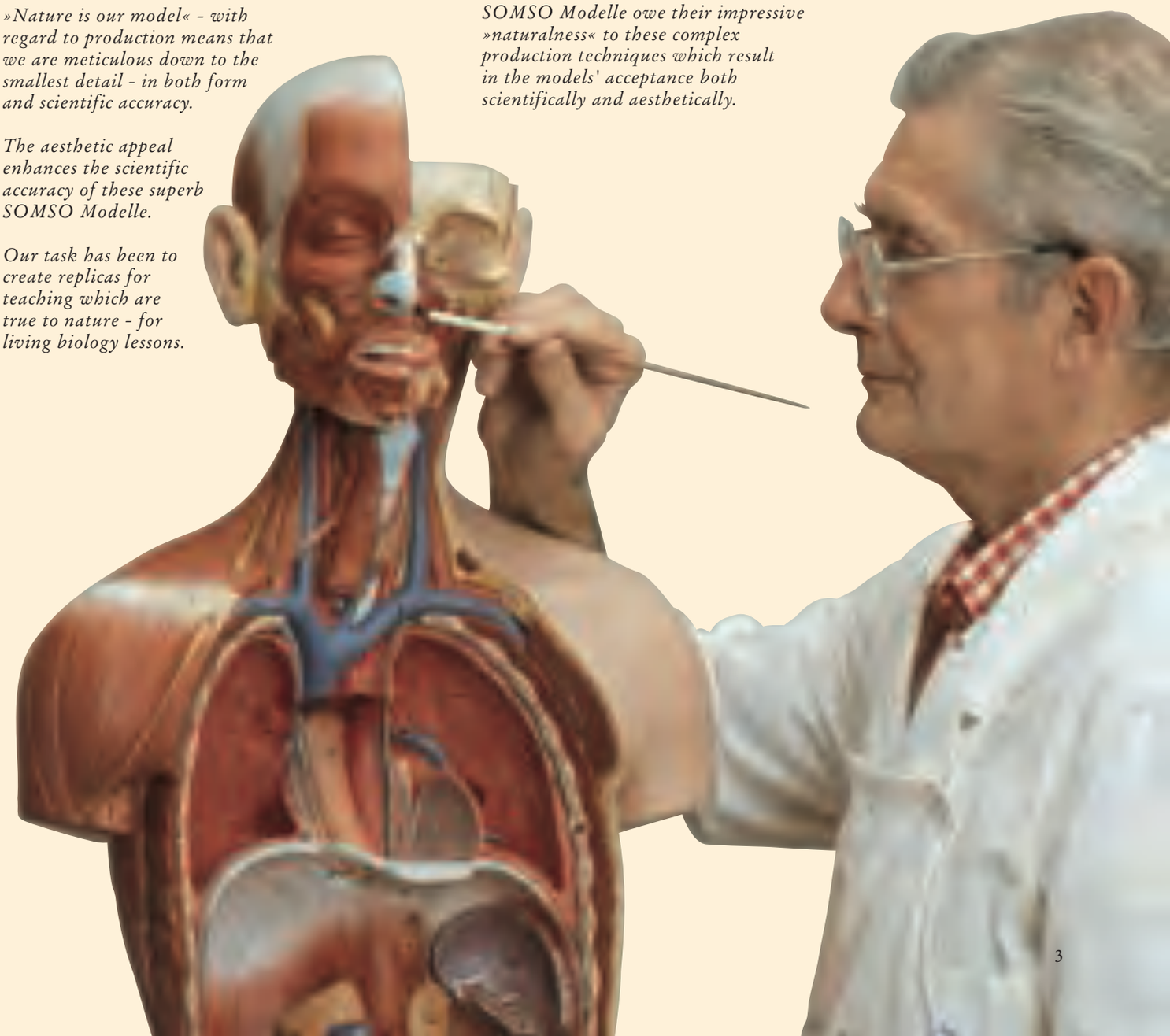
Our task has been to create replicas for teaching which are true to nature - for living biology lessons.

Detail in Production

The production of SOMSO Modelle requires great attention to detail in both specialised manufacturing techniques and basic handwork. Each model is individually hand finished by skilled craftsmen.

The combination of handwork and technology results in models which are far superior to those which are mass produced.

SOMSO Modelle owe their impressive »naturalness« to these complex production techniques which result in the models' acceptance both scientifically and aesthetically.



SOMSO - A FULL FIVE-YEAR GUARANTEE

No other manufacturer in this field offers a full five-year warranty - on nearly all models - that covers both durability and workmanship.

SOMSO
GUARANTEE
5 Years

HAND ASSEMBLY AND FINISHING BY GERMAN CRAFTSMEN

SOMSO Models are produced only in Sonneberg or Coburg - nowhere else - by highly qualified and skilled craftsmen. Some components are now machine-made, but all models are assembled and painted entirely by hand so that each is a unique work of art.

EACH AND EVERY MODEL IN THE RANGE DEMONSTRATES SOMSO'S COMMITMENT TO THE HIGHEST STANDARDS OF SCIENTIFIC ACCURACY AND ARTISTRY.

From concept through prototype to limited or series production, only specialist scientists, model makers and technicians are employed to produce the highest quality models, accurate down to the finest detail.

SOMSO MODELS - SUBJECT TO STRINGENT QUALITY CONTROLS

SOMSO's primary concern is for quality. Quality that passes the tests for scientific accuracy, painting, function, durability and materials. Genuine SOMSO Models reflect these quality criteria, and their base material is virtually unbreakable SOMSO-Plast.

SOMSO
MODELLE
SEIT 1876

SOMSO mark of quality

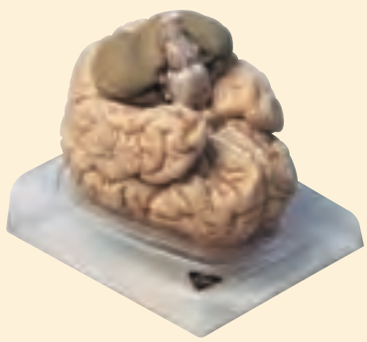
Range of Presentations of Somso Models:

stands, bases, boards, measurements and description keys

Almost all models are shown with stands or bases on the following pages of the catalogue. How the model is supplied is described precisely in the corresponding text.

The differences in presentation:

Model with removable transparent cover



Model on base, removable

Model on base and removable from stand

Model on board

Model on base

Model on base, supported on stand

Model on stand

The descriptive keys

supplied with the models are in different forms and languages.

The keys are written by competent scientists according to strict criteria. The keys are either supplied loose, integrated in the model or on its base depending on the actual model.

Measurements and Weights

are given in the catalogue text for each SOMSO model.

The measurements are volumetric dimensions - height, width and depth of the complete model including the described stand or base.

The weights given include respective base, stand or board.

The SOMSO-Museum in Sonneberg/Thuringia

Marcus Sommer founded the SOMSO workshop on 17th July 1876 in Sonneberg, Thuringia, Germany.

On the occasion of the 125th anniversary of SOMSO Modelle the Family Sommer opened the SOMSO Museum at the parent company in Sonneberg, Thuringia.

Here you are able to see, in 10 different stages, the variety of SOMSO Modelle and their 125-years history.

For further information please have a look on the Internet site www.somso-museum.de

SOMSO MUSEUM SONNEBERG

World-wide appreciation from the science and teaching professions and from museums

SOMSO Models are indispensable for practical teaching of general biology in schools. The »Nature is Our Model« range is superbly instructive, particularly in its accuracy, quality and colour, enabling students to experience nature in an incomparable, hands-on manner.

Appropriately proportioned SOMSO Models are in use in science laboratories and lecture halls of universities and colleges throughout the world, making an important contribution to the efficient instruction of trainee doctors and nurses.

For many decades, SOMSO Models have been permanently displayed in private collections and public museums, and are of unique interest to specialists and lay visitors alike.

Contents

In addition to the ZOOLOGY + BOTANY Catalogue A 75/2+3, SOMSO offers a comprehensive range of Anatomical Models. If you would like details of these models please ask for the ANATOMY Catalogue A 75/1.

SOMSO® SINCE 1876

From page 230 you will find the complete SOMSO-Range as an Index in alphabetical order with Article numbers.

SOMSO offer a comprehensive range of models for veterinary medicine

THE SOMSO ZOOLOGY MODELS ARE MAINLY SHOWN ACCORDING TO THEIR CLASSIFICATION

SUBDIVISION FOR SOMSO ZOOLOGICAL MODELS:

VERTEBRATES

SOMSO's anatomical animal models always comply with the latest standards.

INVERTEBRATES

THE WORLD OF INSECTS – A SERIES OF SOMSO MODELS.

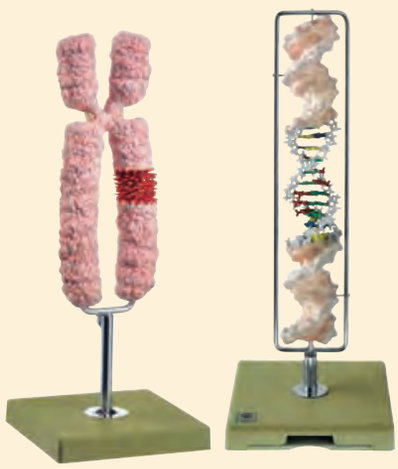
The flea, louse, white ant, aphid, ant and fly models are the first of a series of small insect models with which comparative morphology and phylogeny can be studied.

DEVELOPMENT IN ANIMALS

Development of animals clearly presented in a series of models – from the egg to the embryo
The »Development of the water frog (Rana esculenta) - from egg to frog«. ZoS61/1 series of models is in preparation - a unique presentation of the development of a frog. Individual models in the series: egg, ovum division, blastula, gastrula, 3 tadpole stages, frog. In addition, a basic set - egg, tadpole and frog - will be offered as an alternative at a later dated

MOLECULAR BIOLOGY

SOMSO makes cell growth visible up to the t-RNA



COMPARATIVE ANATOMY

The series skulls of anthropoids ZoS 50 – ZoS 53/7 as well as the chimpanzee skeleton ZoS 53/110 has been developed in co-operation with the State zoological collection in Munich.

PROFESSIONAL TRAINING MODELS

Through the use of natural castings the pathological models for domestic animal anatomy Zo 84 – Zo 89 provide exact information for recognition of clinical pictures.

THOROUGHBRED ANIMAL STATUETTES

A collection of thoroughbred animal statuettes by Max Landsberg and C.A. Brasch from 1936

REALISTIC LIFE-SIZE ANIMAL MODELS

Nature is Our Model
Amphibians and Reptiles of central Europe. A unique series of realistic, life-size animal models, produced in SOMSO-Plast and developed by Christian Groß, Head of Biology Department (retired).

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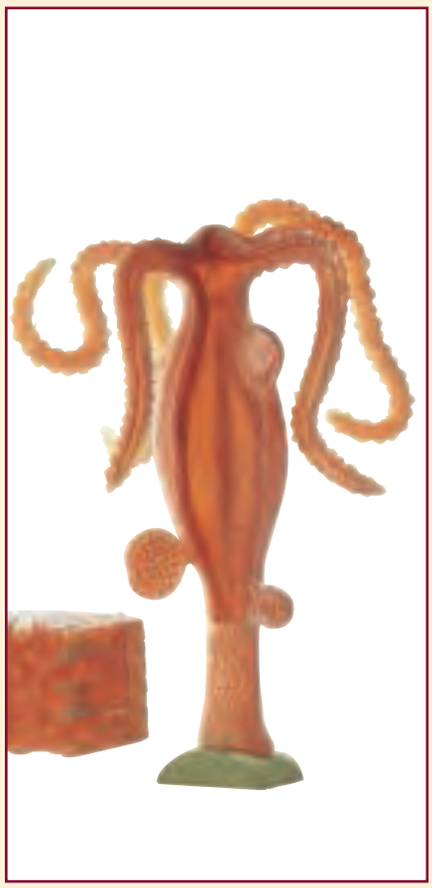


Anatomical animal models by SOMSO

Nature is our Model

Vertebrates and Invertebrates

ZoS 1/1 VISCERA
DETACHABLE STOMACH SEE
ZoS 6/1

ZoS 1 · Cow

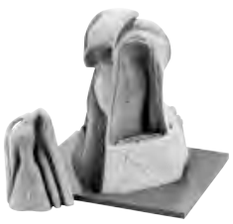
Approximately 1/3 natural size, in SOMSO-Plast. Median section. Separates into two halves. The left side shows the hide, the right side shows the surface muscular system. Right foreleg with shoulder-blade and the biceps of the thigh are removable. The udder shows suspension, network of blood and lymphatic vessels. The organs are detachable as follows: Lungs, heart (2), small and large intestine, ruminant stomach, uterus and half of the udder. Comprises 11 parts. Mounted on a removable base with rollers. Showing the paunch puncture. Height: 54 cm., width: 85 cm., depth: 25 cm., weight: 16.8 kg.

ZoS 1/1 · Cow

About 1/3 natural size, in SOMSO-Plast. As model ZoS 1 but with ruminant stomach detachable - rumen, reticulum, omasum, abomasum (description ZoS 6/1 page 157). Separates into 13 parts. Mounted on a removable base with rollers. Height: 54 cm., width: 85 cm., depth: 25 cm., weight: 17.5 kg.

ZO 3 · DEMONSTRATION MODEL OF THE COW

1/4 natural size. Macroscopic anatomy shown on the left side, the right side shows the skeleton with the topography of the thoracic and abdominal intestines. Fore and hind legs removable. Separates into 3 parts. On a stand with base. Height: 44 cm., width: 66 cm., depth: 22 cm., weight: 4.3 kg.



ZO 4 · NOSE OF COW

Natural size, modelled from a natural preparation. The model shows the exact anatomical structure, the bony surround, the muscles, the nasal cartilages, glands and moist part of nose. Folds and passages inside. Separates into 2 parts. On a base. Height: 25 cm., width: 25 cm., depth: 20 cm., weight: 2 kg.

ZO 7 · KIDNEYS OF THE COW

Natural size. With the inflowing and outflowing vessels, one kidney can be detached to show the pelvis of the kidney and the papillae. On a base. Separates into 2 parts. Height: 24 cm., width: 37 cm., depth: 8 cm., weight: 1.6 kg.

ZOS 6/1 · RUMINANT STOMACH OF THE COW

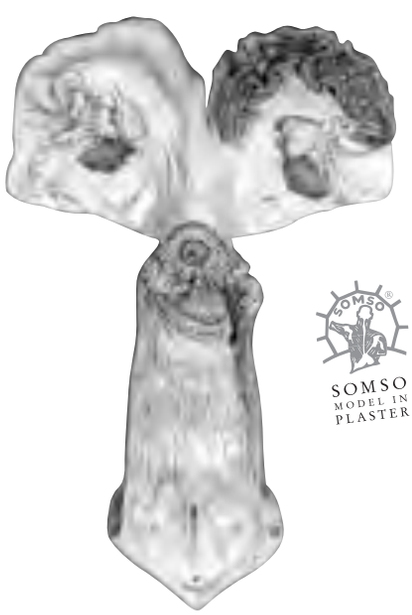
1/3 natural size, in SOMSO-Plast. Rumen and reticulum can be divided into two halves to show the relief of the mucous membrane of the stomach. Omasum and abomasum can be opened up. Separates into 3 parts. On a stand and base. Height: 35 cm., width: 28 cm., depth: 18 cm., weight: 1.7 kg.

ZO 9 · FEMALE GENITAL ORGANS OF THE COW

Natural size. Vagina detachable. Comprises 2 parts. On a stand and base. Height: 31 cm., width: 62 cm., depth: 34 cm., weight: 3.8 kg.

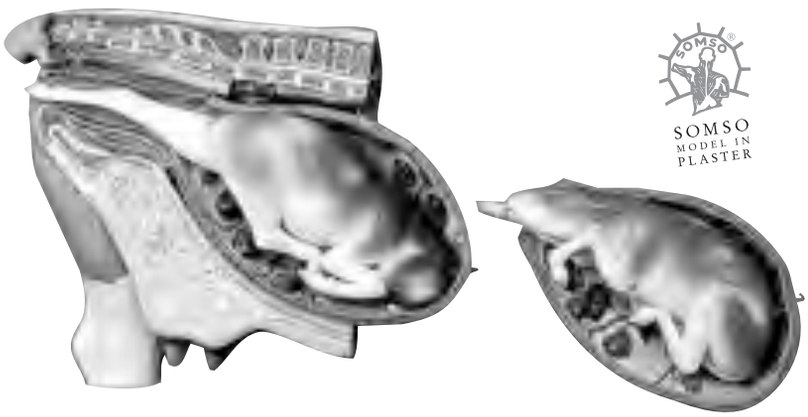
ZOS 5 · MODELS OF SETS OF COW'S TEETH

In SOMSO-Plast. Natural casts of the lower jaw showing ten different stages of growth: 14 days, 1 year, 1 1/2 years, 2 years, 3 years, 4 years, 5 years, 9 years, 14 years, and 18 years. In one piece. Individually mounted on bases. Measurement of a single model: Height: 10 cm., width: 12 cm., depth: 12 cm., weight of the series: 1.4 kg.



ZO 8 · FEMALE GENITAL ORGANS OF THE COW

Cast from natural specimen. Horn of uterus and vagina open. In one piece. Mounted on a board. Height: 68 cm., width: 45 cm., depth: 10 cm., weight: 3.9 kg.



ZO 11 · COW - FEMALE PELVIS WITH INTERCHANGEABLE UTERUS

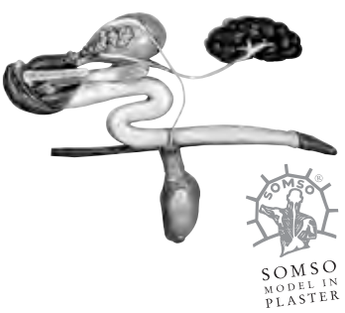
About 2/3 natural size. Separates into 5 parts. 1. Fetus lying head downwards and 2. Fetus lying in upright position. On a base. Height: 64 cm., width: 68 cm., depth: 32 cm., weight: 18.5 kg.

ZO 10 · COW - FEMALE PELVIS WITHOUT FETUS

About 2/3 natural size. Median section, uterus removable. Comprises 2 parts. On a base. Height: 65 cm., width: 46 cm., depth: 29 cm., weight: 7 kg.

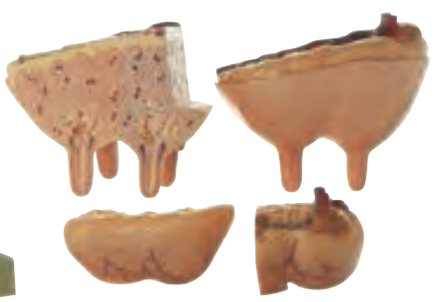
ZO 12 · UTERUS OF THE COW

Cast from natural specimen. With removable fetus. Comprises 2 parts. Mounted on a board. Height: 30 cm., width: 48 cm., depth: 13 cm., weight: 4.1 kg.



ZO 13 · GENITAL ORGAN OF THE BULL WITH URINARY SYSTEM

Natural size. In one piece. Mounted on a board. Height: 54 cm., width: 76 cm., depth: 11 cm., weight: 6.5 kg.



ZOS 16 · UDDER OF THE COW

Natural size, in SOMSO-Plast. After Prof. Dr. Vollmerhaus and Prof. Dr. Waibl. Separates into 4 parts in sagittal and vertical section, showing the arteries, veins, lymphatic vessels and milk passages and the four glandular regions. Removable. On a stand with base. Height: 35 cm., width: 39.5 cm., depth: 28 cm., weight: 5.5 kg.

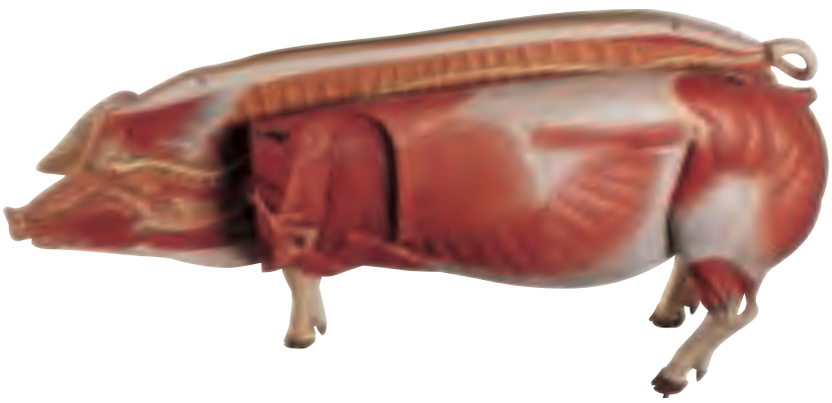
ZOS 17 · COW'S HOOF

Left front foot of the cow, cast from natural specimen, in SOMSO-Plast. Separates into 6 parts. On a base. Height: 34 cm., width: 14 cm., depth: 30 cm., weight: 1.3 kg.

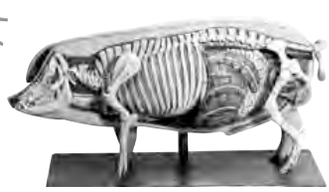
SINCE 1876

ZoS 18/1 · Model of a Breeding Pig (Dam)

Approx. 1/2 natural size, in SOMSO-Plast. Based on a breeding pig from the Bavarian State Institute for Animal Breeding in Grub. Right side shows the skin, the other side shows the muscular system. The model is mounted on a base which can be pulled out and separates into two halves medially. The left half of the head showing the muscular system, the main blood-vessels and glands (the parotid gland can be removed) as well as the auricular cartilage is removable, as is the left front leg. After separating both halves, the left side shows the thoracic and abdominal cover, the right side the thoracic and abdominal organs. Separates into 17 parts: the right half of body, left half of body, left half of head, parotid gland, left front leg, half of lungs, heart (2), liver, stomach (2), pancreas, small intestine, large intestine, renal fat and half of uterus. Height: 48 cm., width: 102 cm., (length of the model), depth: 26 cm., weight: 21 kg.

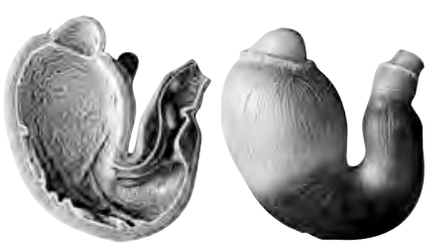


SOMSO MODEL IN PLASTER



ZO 19 · Model of the Pig for Demonstration

1/3 natural size. Right side shows the macroscopic anatomy of the surface, the left side the skeleton with topography of the thoracic and adominal cavity. The fore and hind legs of the skeleton are removable. Comprises 3 parts. On a base. Height: 35 cm., width: 60 cm. (length of the model), depth: 20 cm., weight: 3.8 kg.



SOMSO MODEL IN PLASTER

ZO 21 · Stomach of the Pig

Natural size. Can be opened to show the relief of the folds of the mucous membrane. Separates into 2 parts. On a stand and base. Height: 39 cm., width: 21 cm., depth: 18 cm., weight: 1.8 kg.

SOMSO MODEL IN PLASTER

ZO 20 · Uterus of the Pig with Fetus

Natural size, in one piece. Mounted on a board. Height: 37 cm., width: 60 cm., depth: 7 cm., weight: 2.7 kg.

ZO 28 VISCERA

SOMSO MODEL IN PLASTER

ZO 28 · HORSE

Approx. 1/3 of the natural size. Shows the muscle structure on both sides, torso separated at the Abdomen. Right side of the body together with foreleg is detachable, chest and stomach organs shown in their exact topographic position as well as the male urogenital system and main blood vessels. Separates into 14 parts: right side of the body, left side of the body, right side of the head, left side of the head, left foreleg, left abdominal wall, right buttock muscle (exterior), tail, heart (2 parts), lung, diaphragm, small intestine, large intestine, stomach. On a base. Height: 84 cm., width: 10 cm., depth: 27.5 cm., weight: 16.6 kg.

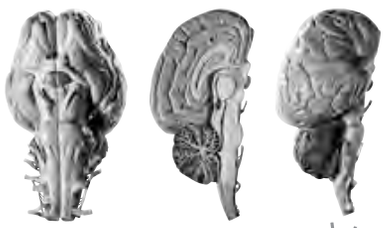
SOMSO MODEL IN PLASTER

ZO 29 · HORSE

1/4 natural size. Left side shows the hide. The right side the skeleton with topography of the thoracic and abdominal organs. The skeletons of the fore and hind extremities are removable. Separates into 3 parts. On a base. Height: 60 cm., width: 68 cm., depth: 20 cm., weight: 4.1 kg.

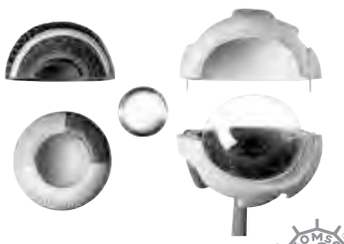
ZOS 42/43 · HORSE'S HOOF WITH LIGAMENTS, VESSELS AND NERVES

Natural size, in SOMSO-Plast. Median section. Separates into 7 parts. On a base. Height: 30 cm., width: 18 cm., depth: 26 cm., weight: 1.57 kg.



Zo 30 · Brain of the Horse

Natural size. Median section. Separates into 2 parts. Without base. Height (length): 12 cm., width: 15 cm., depth: 10 cm., weight: 600 g.

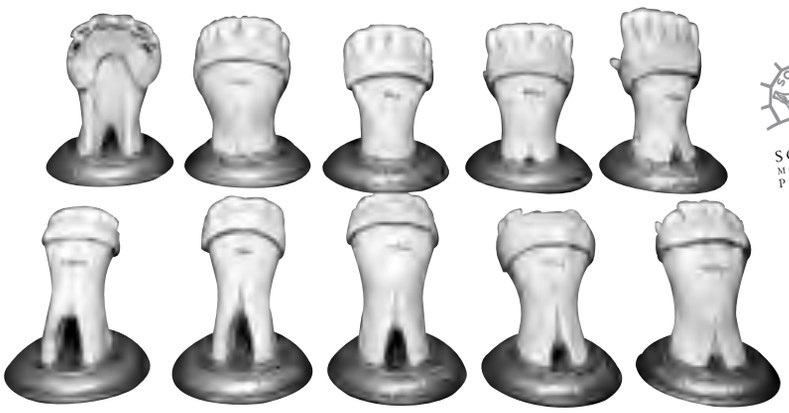


Zo 31 · Eyeball of the Horse

Enlarged 5 times linearly, cut horizontally, corium, vitreous humour and lens removable. Separates into 5 parts. On a stand and base. Height: 31 cm., width: 18 cm., depth: 18 cm., diameter 16 cm., weight: 1.5 kg.

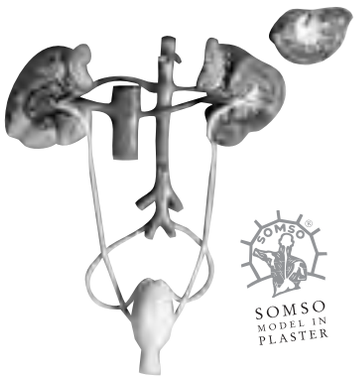
Zo 36 · Stomach of the Horse

Natural size, separates into 2 halves. Removable from base. Height: 23 cm., width: 48 cm., depth: 36 cm., weight: 4.1 kg.



Zo 33 · Sets of Teeth of a Horse

Natural size, modelled from the natural lower jaw showing 10 different stages of growth: at 1/2, 1, 1 1/2, 2 1/2, 3 1/2, 4, 6, 9, 12 and 18 years of age. Individually mounted on bases. In one piece. Measurements of one model: Height: 13 cm., width: 12 cm., depth: 12 cm., weight of the series 2.5 kg.



Zo 38 · Urinary Organs

Of the male horse. Natural size. Kidney comprises 2 parts. Mounted on a board. Height: 59 cm., width: 44 cm., depth: 9 cm., weight: 3.4 kg.

Zo 41 · Knee-Joint of the Horse

Natural size. With ligaments. Separates into 2 parts. On a base. Height: 45 cm., width: 15 cm., depth: 25 cm., weight: 1.5 kg.

Zo 39 · Genital Organs of a Stallion

Natural size. Median section. Separates into 4 parts. Removable from base. Height: 38 cm., width: 55 cm., depth: 22 cm., weight: 3.9 kg.

Zo 40 · Genital Organs of a Mare

Modelled from a natural specimen, natural size. Vagina and horn of uterus open. In one piece. Mounted on a board. Height: 76 cm., width: 54 cm., depth: 10 cm., weight: 5.1 kg.

ZO 22 · SHEEP

SOMSO MODEL IN PLASTER

Approximately 2/3 natural size. One side shows the skin the other the muscular system. The left half of the head and the left foreleg are removable. After removing the abdominal wall the topography of the thoracic and abdominal organs are displayed, made in SOMSO-Plast Separates into: left half of lung, heart (2), stomach, small instestine (2), and uterus. The trunk, the left half of the head and the left foreleg are made of plaster of paris. Comprises 11 parts. On a base. Height: 47 cm., width: 66 cm., (length of the model), depth: 27 cm., weight: 19 kg.

SOMSO MODEL IN PLASTER

ZO 24 · DOMESTIC RABBIT

Natural size, after a white buck rabbit which had won many prizes. Separates into two halves medially. The right side shows the pelt, the left half the muscular system and the topography of the thoracic and abdominal intestines which are removable. Separates into 8 parts. On a base. Height: 33 cm., width: 52 cm., depth: 20 cm., weight: 5.3 kg.

ZOS 27/1 · CAT

Natural size, in SOMSO-Plast. The right side shows the hide (removeable) with the skeleton below, the left side the muscular system. Separates as follows: head (median section), body with hind quarters, front quarters, lungs, heart, stomach, small intestine, tail. Comprises 9 parts. On a base. Height: 45 cm., width: 56 cm., depth: 22 cm., weight: 4.1 kg.

SOMSO MODEL IN PLASTER

ZO 109 · MODEL OF A SHEEP-DOG

2/3 natural size, modelled on a prize winning sheep-dog with advice from Dr. Rummel. One side shows the coat, the other the surface muscular system. In one piece. On a base. Height: 65 cm., width: 78 cm., depth: 23 cm., weight: 9.4 kg.

ZoS 26 · Domestic Hen

Natural size, in SOMSO-Plast. Modelled from a natural skeleton. The right side shows the feathers; the left side the organs. By a simple operation, the torso can be taken from the feathers to show the muscular system. The following internal organs are removable: left lung, part of the liver, stomach. Comprises 5 parts. On a base. Height: 49 cm., width: 45 cm., depth: 26 cm., weight: 2.4 kg.

ZoS 115 · Anatomy of the Head of a Venomous Snake

Adder, Vipera b. berus (Linne), enlarged approx. 15 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired), it illustrates very clearly the general construction of the head of a snake, the venom apparatus and the distinguishing characteristics of an adder. Not detachable. On a stand with base. Height: 39 cm., width: 49 cm., depth: 26 cm., weight: 1.7 kg.

ZoS 105 · Model of the Anatomy of a Bony Fish

The model is that of a carp - cyprinus carpio. In SOMSO-Plast. Modelled from life in natural size. Intestines, air-bladder and testicles removable. Separates into 4 parts. On a stand with base and explanation. Height: 35 cm., width: 49 cm., depth: 15 cm., weight: 1.6 kg.

ZoS 100 · WATER FROG

Rana esculenta. After Christian Groß, Head of Biology Department (retired). Enlarged approx. 4 times, in SOMSO-Plast. The dorsal side of the model is mounted on a board and shows an anatomical preparation open at the ventral side of a male frog. Liver and stomach-intestine-tract are removable to show the position of the internal organs in stages. The abdominal side of the urinary and genital organs of a female water frog are shown on a supplementary model for comparison. Separates into 3 parts. Mounted on a board. Height: 39 cm., width: 62 cm., depth: 12 cm., weight: 3.9 kg.

ZoS 100/1 · WATER FROG

Rana esculenta. After Christian Groß, Head of Biology Department (retired). Enlarged approx. 4 times, in SOMSO-Plast. The model shows a male water frog with spread out legs and inflated vocal sacs. The back view shows the characteristics of form, colour and marking. Liver, and stomach-intestine-tract are removable to show the position of the internal organs in stages. The hind legs can be removed at the thighs. The urinary and genital organs of a female water frog are shown on a supplementary model for comparison. Separates into 5 parts. On a stand and base. Height: 58 cm., width: 42 cm., depth: 26 cm., weight: 3.9 kg.

ZoS 49 · COMPOUND OR FACET EYE

Enlarged approximately 200 times, in SOMSO-Plast. Showing the delicate histological structure. In one piece. On a stand with base. Height: 33 cm., width: 29 cm., depth: 18 cm., weight: 900 g.

ZoS 47/3 · MODEL OF THE BRAIN OF A HONEY BEE WITH TRANSPARENT HEAD CAPSULE

Apis mellifera. Enlarged approx. 50 times, in SOMSO-Plast. After Dr. Dorothea Brückner, University of Bremen. The capsule of the head in special plastic can be opened and the complete brain removed to study the back of the brain. Shown: ocelli, mushroom body, optical neuropile, antennal lobes, dorsal lobes and the supesophaganglion. Part of the protocerebrum can be removed to see the structures underneath. The model is mounted on a stand with base. Height: 23 cm., width: 18 cm., depth: 18 cm., weight: 830 g

ZoS 47/4 · MODEL OF THE BRAIN OF A HONEY BEE

as ZoS 47/3, but without head capsule

SINCE 1876

ZoS 47/1 · MODEL OF THE WORKER BEE

Honey-bee, Apis mellifera (A. mellisica), enlarged approximately 25 times, in SOMSO-Plast. On the model one leg is removable to show the pollen basket with the collected pollen at the back. In addition the honey vesicle in connection with a piece of intestine and vesicle of droppings is removable to show the under-lying sting apparatus and the venom bladder. Comprises 3 parts. On a stand with base. Height: 50 cm., width: 47 cm., depth: 15 cm., weight: 1.8 kg.

ZoS 47/2 · MODEL OF THE HIND LEGS OF THE BEE

Functional model, enlarged many times, in SOMSO-Plast. After Dr. E. Schicha. The model illustrates the following functions: brushing of the bee's body with the pollen combs, patting down the pollen masses at the outside of the tibia, movable joint between tibia and planta. On a stand with base. Height: 34 cm., width: 18 cm., depth: 18 cm., weight: 1 kg.

ZoS 48/5 · MODEL OF A MOSQUITO

Culex pipiens. After Dr. E. Schicha. Enlarged approx. 50 times, in SOMSO-Plast. Separates into 7 parts. On a base which can be pulled apart. Height: 60 cm., width: 75 cm., depth: 65 cm., weight: 3.1 kg.

ZoS 48/1 · Head of Bee

Apis mellifica, modelled from nature. After Dr. E. Schicha. Enlarged approx. 50 times, in SOMSO-Plast. The mouth-parts adapted for chewing and licking by the honey-bee are shown. Upper jaw movable to demonstrate its function. Separates into 2 parts. On a stand and base. Height: 34 cm., width: 18 cm., depth: 19 cm., weight: 800 g.

ZoS 48/2 · Head of a Butterfly

Pieris brassicae, modelled from nature. After Dr. E. Schicha. Enlarged approx. 50 times, in SOMSO-Plast. The proboscis is shown stretched out and coiled. Separates into 5 parts. On a stand with base. Height: 82 cm., width: 18 cm., depth: 25 cm., weight: 900 g

ZoS 48/3 · Head of a Gnat

Culex pipiens, head of a female gnat, modelled from nature. After Dr. E. Schicha. Enlarged approx. 80 times, in SOMSO-Plast The long stylets, consisting of the labrum (upper lip), the paired mandibles, the paired maxillae, and the hypopharynx can be put together to demonstrate the function of the stylets. In one piece. On a stand with base. Height: 40 cm., width: 18 cm., depth: 45 cm., weight: 800 g.

ZoS 48 · Head of Carabus

Carabus auratus, enlarged 50 times linearly, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). Lower jaw, lower lip and both antennae are removable for demonstration purposes. Simplified facet structure. Separates into 6 parts. On a base. Height: 34 cm. (without antennae), width: 33 cm., depth: 39 cm., weight: 2.7 kg.

ZoS 48/4 · Head of a Fly

Musca domestica, modelled from nature. After Dr. E. Schicha. Enlarged approx. 50 times, in SOMSO-Plast. In one piece. On a stand and base. Height: 27 cm., width: 18 cm., depth: 20 cm., weight: 700 g.

ZoS 48/6 · Model of the Head of a Cockroach

Periplaneta americana. After Dr. E. Schicha. Modelled from nature. Enlarged approx. 50 times, in SOMSO-Plast. Upper jaw and maxillae are movable and mounted to demonstrate the function. Separates into 3 parts. On a stand with base. Height: 41 cm., width: 27 cm., depth: 18 cm., weight: 1 kg.

ZoS 49/14 · Termite

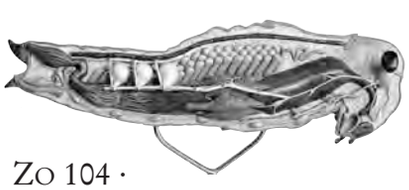
Coptotermes acinaciformis - A soldier Termite or "white ant". Enlarged approx. 50 times, modelled in SOMSO-Plast. After Dr. E. Schicha. In one piece. On a stand with base. Height: 24 cm., width: 10 cm., depth: 10 cm., weight: 600 g.

ZoS 49/20 · Headlouse

Peaculus humanus, var. Capitis, in SOMSO-Plast. After Dr. E. Schicha. Enlarged approx. 70 times. In one piece. On a stand with base. Height: 17 cm., width: 20 cm., depth: 16 cm., weight: 400 g.

ZoS 49/27 · Ant

Formica polyctena - Red forest ant designed by Dr. E. Schicha, modelled in SOMSO-Plast. Enlarged approx. 30 times. In one piece. On a stand with base. Height: 16 cm., width: 11 cm., depth: 18 cm., weight: 600 g.



Zo 104 · Model of the Egyptian Migratory Locust

Locusta migratoria. After natural preparations, enlarged approximately 10 times. After Christian Groß, Head of Biology Department (retired). In one piece. On a stand with base. Height: 31 cm., width: 47 cm., depth: 12 cm., weight: 2.3 kg.

ZoS 49/31 · Model of a Fly

Musca domestica - common housefly. After to Dr. E. Schicha, in SOMSO-Plast. Supplied on a stand with base. Enlarged approx. 30 times. Height: 23 cm., width: 22 cm., depth: 26 cm., weight: 500 g.

ZoS 49/22 · Aphid

Macrosiphum rosae - Wingless rose aphid designed by Dr. E. Schicha, modelled in SOMSO-Plast. Enlarged approx. 80 times. In one piece. On a stand with base. Height: 16 cm., width: 24 cm., depth: 18 cm., weight: 600 g.

ZoS 49/3 · Springtail

Sminthurus viridis L. (Collembola). Enlarged approximately 90 times, in SOMSO-Plast. After Dr. E. Schicha. Modelled from nature. On a stand with base. Height: 17 cm., width: 22 cm., depth: 15.5 cm., weight: 400 g.

ZoS 49/32 · Flea

Ctenocephalides felis - Cat flea, modelled in SOMSO-Plast. After Dr. E. Schicha. Enlarged approx. 70 times. In one piece. On a stand with base. Height: 25 cm., width: 12 cm., depth: 18 cm., weight: 500 g.

ZoS 47/5 · Bark Beetle

Enlarged approx. 40 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). Enlarged and true to detail representation of the big Spruce bark beetle with eight teeth (Ips typographus L.). In one piece. On a stand with base. Height: 17 cm., width: 32 cm., depth: 18 cm., weight: 800 g.

ZoS 47/6 · Bark Beetle - Development

Enlarged approx. 40 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). With the following phases of development: egg, 2 x young larva, full-grown larva, pupa and beetle. Separates into 5 parts. On a base. Height: 20 cm., width: 49 cm., depth: 28 cm., weight: 1.7 kg.

ADVANCE NOTICE:

ZoS 122 · Tick

ZoS 114 · Star-Fish

Asterias, many times enlarged, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The model shows in detail: 1. Complete arm with normal position of the organs (stomach, intestinal caeca, pyloric caeca, ampullae). 2. Arm with ampullae, ring canal, Polian vesicles. 3. Skeleton of the arm with nervous system (nervering and radial nerves). 4. Arm in transverse section (ambulacral system in cross-section). The cut surface shows the stomach, stone canal, axial organ and madreporite. In addition on the outside the podia, pedicellariae and optic organs are shown. Comprises 3 parts. On a removable stand and base. Height: 31 cm., width: 53 cm., depth: 35 cm., weight: 2.2 kg.

ZoS 118 · Crayfish or Precious Crayfish

Astacus astacus (L.), structure of the body and anatomy of a male crayfish. After Christian Groß, Head of Biology Department (retired). Linearly enlarged 3 times, in SOMSO-Plast. The lifelike model shows on the left side, the differentiated external limbs; on the right side, the internal structure of the crayfish. Movable claws are detachable to demonstrate the position of the internal organs. The model is particularly valuable for demonstration. Separates into 13 parts. On a stand with base. Height: 28 cm., width: 82 cm., depth: 29 cm., weight: 4 kg.

ZoS 116/1-3 · Series of Models Showing the Tape-Worm

Consisting of ZoS 116/1, ZoS 116/2 and ZoS 116/3 in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). Weight: 4.8 kg.

ZoS 116/1 · Head of the Pork Tape-Worm or Armed Tape-Worm

Taenia solium, enlarged many times, in SOMSO-Plast. In one piece. On a base. Height: 28 cm., width: 18 cm., depth: 18 cm., weight: 800 g.

ZoS 116/2 · Head of the Beef Tape-Worm or Unarmed Tape-Worm

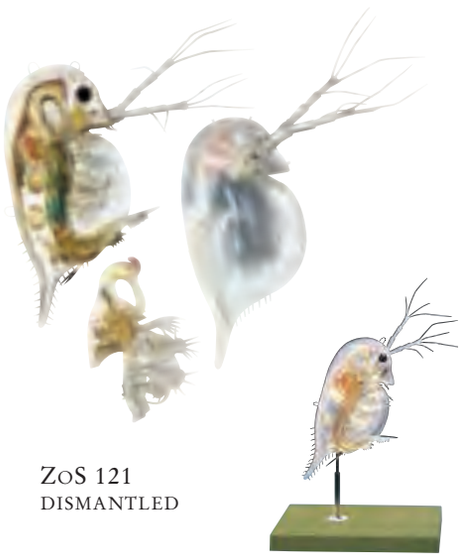
Taenia saginata, enlarged many times, in SOMSO-Plast. In one piece. On a base. Height: 28 cm., width: 18 cm., depth: 18 cm., weight: 900 g.

ZoS 116/3 · Model-Board of the Tape-Worm

Enables comparison of the pork tape-worm, Taenia solium with the beef tape-worm, Taenia saginata. Enlarged many times, in SOMSO-Plast. The model illustrates: egg, cysticercus, some final segments in natural size and enlarged segments in varying degrees of maturation. In one piece. Mounted on a board. Height: 38 cm., width: 61 cm., depth: 10 cm., weight: 3.1 kg.

ZoS 121 · Model of a Water-Flea

Daphnia pulex, in SOMSO-Plast. Female animal with summer eggs. After Christian Groß, Head of Biology Department (retired). Enlarged approx. 200 times. The 35 cm. tall transparent model shows, apart from typical characteristics such as rowing-antennae, two-leaf shell and turgor-legs, many structural details. Fom the right side it separates into: right shell half with second antenna, part of the right half of the body with the five turgor-legs as well as the median sectioned front third of the digestive tract; median sectioned two thirds at the back of the digestive tract, right ovary and two embryos. Separates into 6 parts. On a stand and base. Height: 50 cm., width: 42.5 cm., depth: 35 cm., weight: 2.5 kg.



ZoS 121
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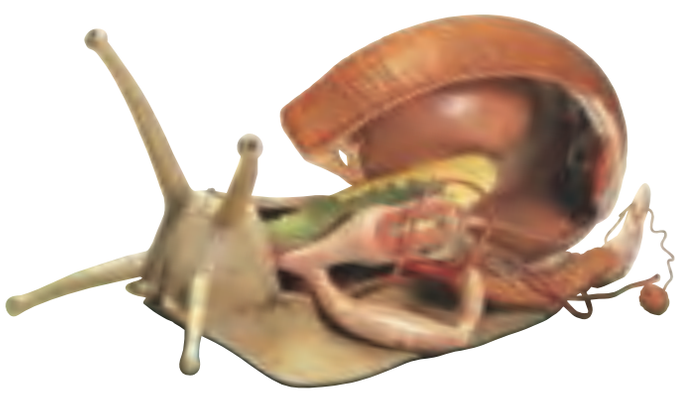
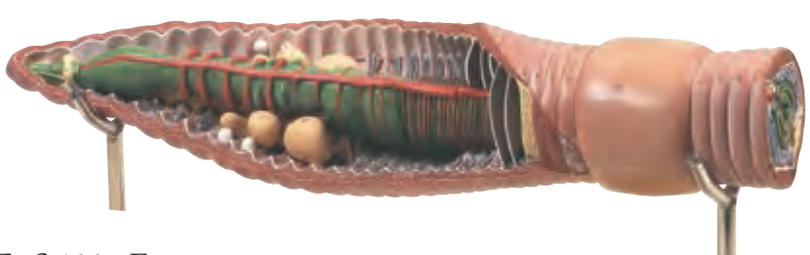


ZoS 117 · Vineyard Snail

Helix pomatia L., enlarged approx. 6 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The approx. 60 cm. long model is that of a crawling, edible snail. The right view shows the shell, the left, the opened snail. The lower portion of the shell as well as parts of the intestinal sac, the lungs and foot muscles are partly removed to show all important internal organs. The part lying between throat and small intestine of the intestinal canal can be removed and the cross genital apparatus can be seen completely. Separates into 4 parts. On a base. Height: 28 cm., width: 68 cm., depth: 45 cm., weight: 7.5 kg.



ZoS 108 · Earthworm

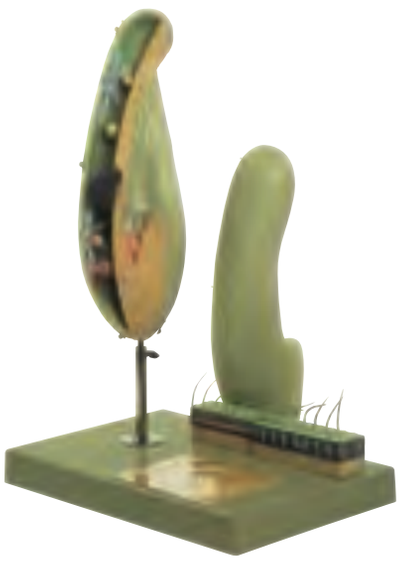
Lumbricus terrestris, enlarged 25 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The model shows the front third of the body with a cross section in relief. To see the inside of the stomach the intestine can be removed and the sexual organs are then also visible. The seminal vesicles are removable to show the testes and funnels of sperm ducts. Separates into 3 parts. On a stand with explanatory note on the base. Height: 25 cm., width: 53 cm., depth: 14 cm., weight: 2.2 kg.

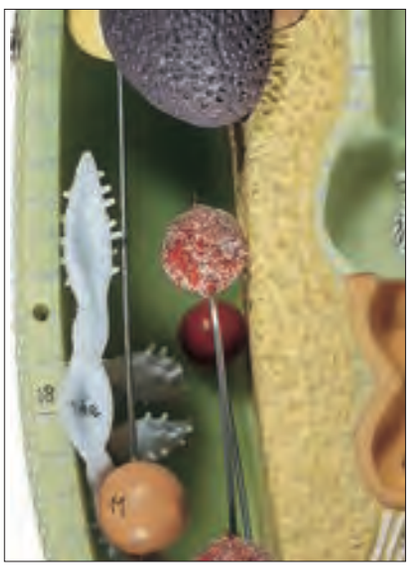
ZoS 101 · Model of a Single Cell Changing Animalcule

Amoeba proteus, enlarged approx. 1000 times, in SOMSO-Plast. After Prof. Dr. M. Lindauer and Christian Groß, Head of Biology Department (retired). The small pseudopodium can be opened up showing the structure after electron microscope magnification. Separates into 2 parts. On a base. Height: 8 cm., width: 48 cm., depth: 31 cm., weight: 1.8 kg.

ZoS 106 · Fresh Water Polyp

Hydra, enlarged approx. 30 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The anatomy of the hydra is shown in longitudinal section: entoderm, mesoglea, ectoderm, male and female egg-cells, buds and mouth opening. A detailed block of the wall of the body in the region of stomach and intestine, enlarged approx. 200 times, clearly shows the microscopic structure in cross and longitudinal section, and especially the structure of the various types of cell (nematoblasts, musculo-epithelial cells, sense cells, interstitial cells and the nerve network). In one piece. On a base with explanatory notes. Height: 46 cm., width: 39 cm., depth: 33 cm., weight: 2.1 kg.





ZoS 107 · Slipper Animalcule

Paramecium, enlarged approx. 1600 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The model shows the cell of a protozoa: macro- and micronucleus, contractile vacuoles, cytostome with membranellae, myonemes and food vacuoles and the formation of the endo- and ectoplasm and the network of neuronemes. A detailed block shows the structure of the pellicle of the ectoplasm, and the position and order of the trichocysts and a range of cilia in typical order. Separates into 2 parts. On a stand with base and explanatory note. Height: 61 cm., width: 39 cm., depth: 26 cm., weight: 2.7 kg.

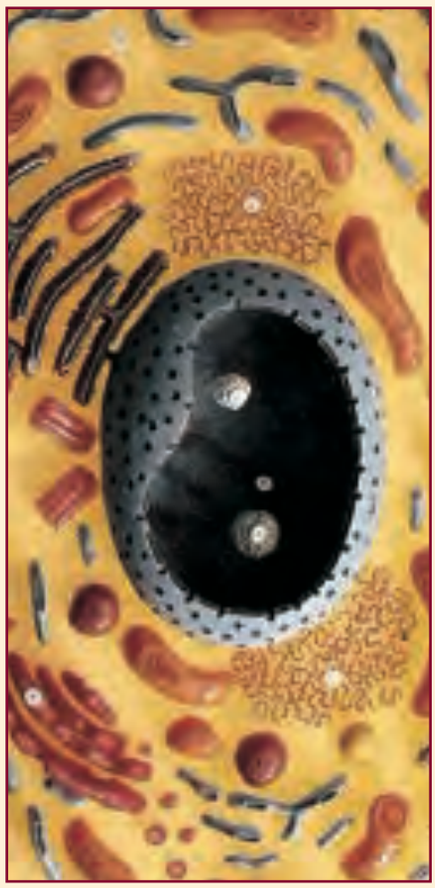
ZoS 101/1 · Globorotalia menardii

Foramenifera plankton, in SOMSO-Plast. In co-operation with Dr. Barbara Donner. Size 0,5 mm (ø), weight: 104 g.

ZoS 119 · Mussel

Anodonta cygnea, anatomical view, right half of shell - pallium half and gill removed, foot opened at the right side. After Christian Groß, Head of Biology Department (retired). Linearly enlarged 4 times, in SOMSO-Plast. The model shows the special features of the external and internal structure of a mussel. The organ systems, which are seen only with difficulty on a natural preparation, have been accentuated and schematized for educational purposes in both structure and colour. Separates into 5 parts. On a base. Height: 21 cm., width: 61 cm., depth: 38 cm., weight: 7.7 kg.

SOMSO
MODELLE
SINCE 1876

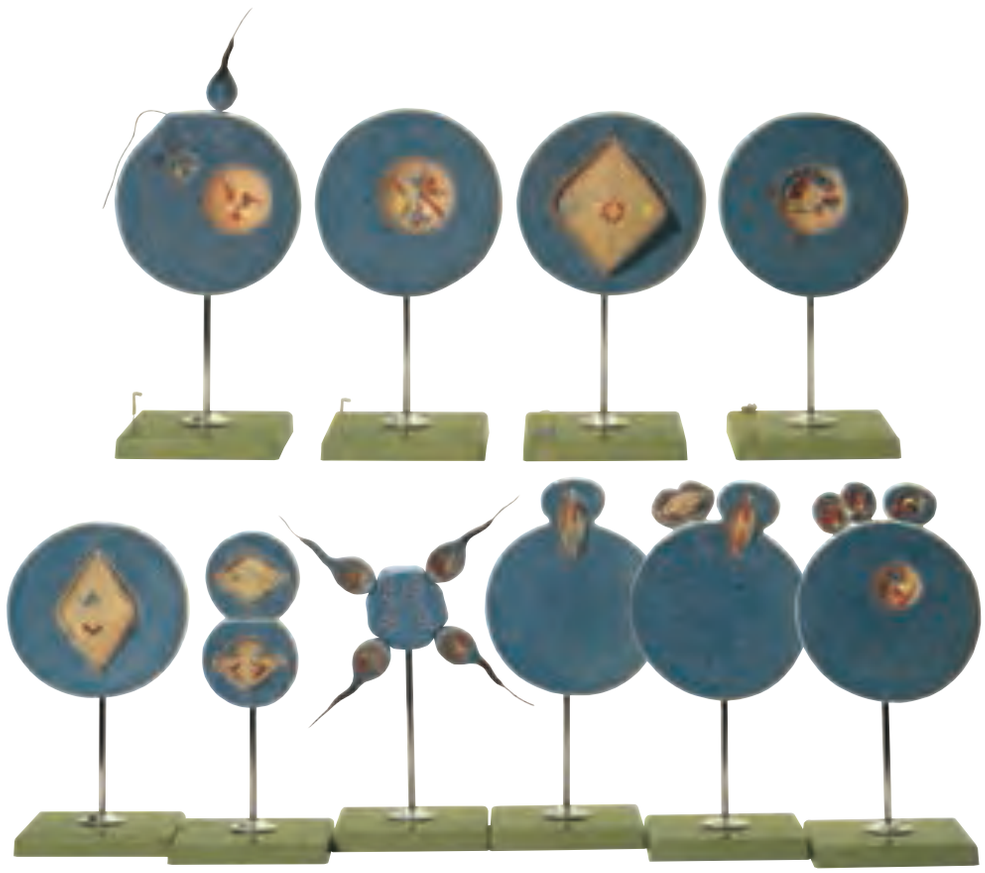


Development of Animals

Comparative Anatomy

Professional Training Models

ZOOLOGY

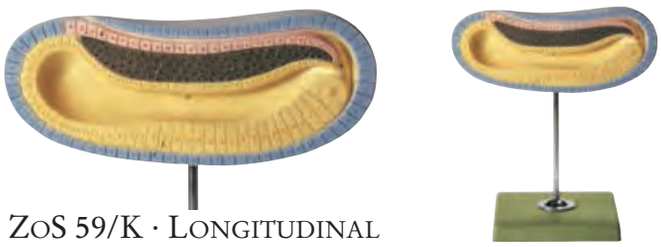


ZoS 57/2 · Meiosis

As a component of cell division, shown by 8 models with 2 explanatory introductory models, enlarged many times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The series shows the processes of meiosis in the division of chromosomes and the arrangement of genomum within cell multiplication. The crossing-over processes are not shown. In one piece. Individually mounted on a stand with base. Weight of the series: 3.3 kg.

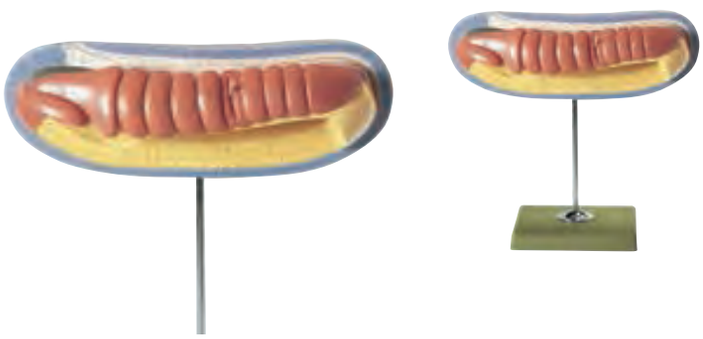
ZoS 57/3 · Change of Nuclear Phases in the Maturation of Sperm and Ovum (Meiosis)

Many times enlarged, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). Chromosomes of paternal and maternal origin as well as hetero chromosomes shown in different colours. Consisting of 5 single models. Individually mounted on stand with base. Weight of the series: 2 kg.



ZoS 59/K · Longitudinal Section of the Larva of the Lancelet at the Beginning of Development

Enlarged approx. 150 times, in SOMSO-Plast. In one piece. On a stand with base. Height: 22 cm., width: 20 cm., depth: 12 cm., weight: 300 g.

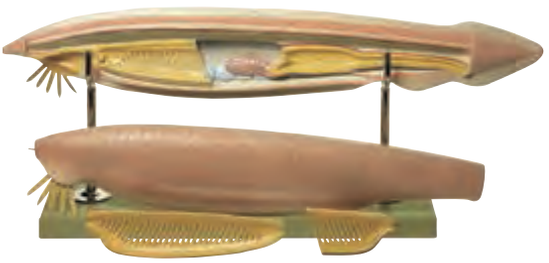


ZoS 59/L · Longitudinal Section of an Older Larva of the Lancelet with Nine Original Segments

Advanced development, enlarged approx. 150 times, in SOMSO-Plast. The left external membrane has been removed. In one piece. On a stand with base. Height: 21 cm., width: 25 cm., depth: 12 cm., weight: 400 g.

ZoS 58 · Equal Cell Division and the Formation of the Nuclear Membrane in the Lancelet

Branchiostoma lanceolatum, enlarged approx. 500 times, in SOMSO-Plast. Nine models (A - J) on stands with bases show the various stages in cell division, the formation of the blastula and original membrane. In one piece. Weight of the series: 1.9 kg.



ZoS 59/M · Lancelet

Branchiostoma lanceolatum, enlarged approx. 150 times, in SOMSO-Plast. The detachable model shows the structure of the body of a fully grown lancelet: floating fimbris, muscle segments, position of the gonads, the nerve-network, the chorda, intestinal and blood-vessels system. Comprises 3 parts. On a stand with base. Height: 25 cm., width: 68 cm., depth: 14 cm., weight: 3 kg.

ZoS 59/N · Lancelet

Cross section through the branchia and middle intestine regions, enlarged approx. 150 times, in SOMSO-Plast. In one piece. On a stand with base. Height: 20 cm., width: 12 cm., depth: 12 cm., weight: 500 g.

ZoS 59 · Lancelet

Branchiostoma lanceolatum, enlarged approx. 150 times, in SOMSO-Plast. The 4 models (K - N) show the formation of the nuclear membrane in the larva of the lancelet and its final structure in longitudinal and cross section. Individually mounted on a stand with base. Weight of the series: 4.2 kg.

ZoS 60 · Collection of Lancelets

Branchiostoma lanceolatum, consisting of ZoS 58 (A - J) and ZoS 59 (K - N). 13 models in total, in SOMSO-Plast. Weight: 6.1 kg

ZoS 110/1 · Animal Cell

Enlarged 10,000 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). This model is confined to the presentation of the most important structures of an animal cell. Nucleus, endoplasmatic reticulum, mitchondria, ribosomes, Golgi apparatus and centrioles illustrate the principle of segmentation of this smallest animal unit of life. Scope: common study of the cell. In one piece. On a stand with base and explanatory notes. Height of the model: 22 cm., total height: 37 cm., width: 18 cm., depth: 18 cm., weight: 1 kg.

ZoS 120 · Animal Cell

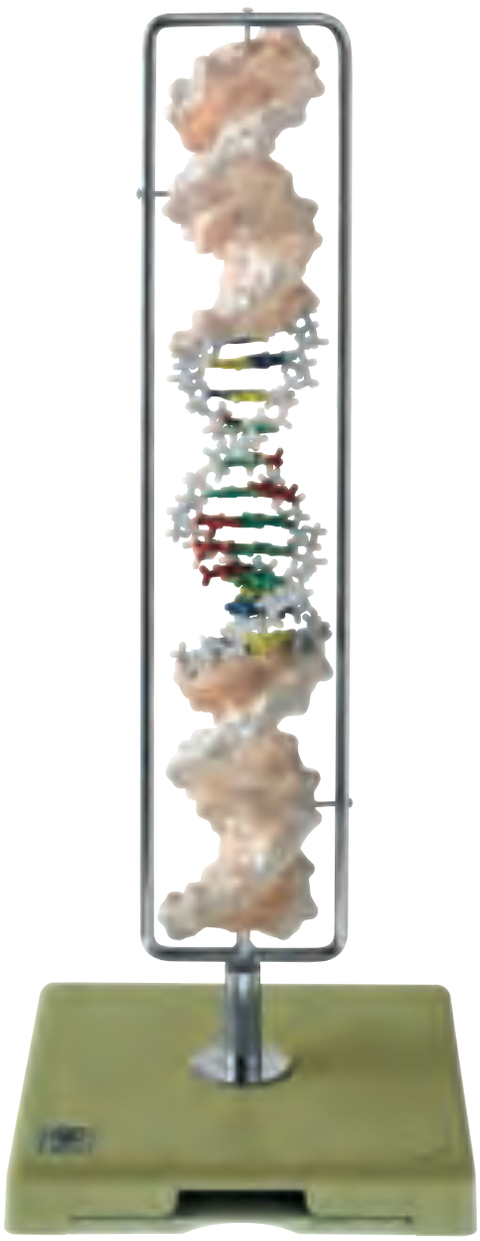
Enlarged 20,000 times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). The model shows the recently discovered principles of the delicate structure of an animal cell. In addition to the organellae like nucleus, endoplasmatic reticulum, mitochondria, ribosomes respectively polysomes and Golgi apparatus, the model also shows centrioles, lysosomes and fat vacuoles. The presentation of the process of extrusion of a Golgi vesicle and pinocytic signs is shown by the cell dynamics. For teaching purposes the components of the cell are very brightly coloured to bring out the high degree of segmentation of a cell. Scope: extended view of the cell. In one piece. On a stand with base. Height: 52 cm., width: 39 cm., depth: 26 cm., weight: 3.7 kg.

ZoS 57 · Division of the Cell

Enlarged many times, in SOMSO-Plast. Shown by 8 models: Prophase, metaphase, anaphase and telophase. These models allow one to follow the process of indirect division (mitosis) in the living cell, seen photomicroscopically. Individually mounted on stands, with bases. Weight of the series: 2.7 kg.

ZoS 57/1 · Mitosis

Enlarged many times, in SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). In 8 separate models the following phases are represented: 1. late interphase, 2. prophase, 3. beginning of metaphase, 4. metaphase - equatorial plane, 5. anaphase - migration of daughter chromosomes, 6. late anaphase, 7. telophase and 8. daughter cells in the early interphase. As shown in the models 3 - 5 the spindles and chromosomes can be revolved for demonstration purposes under a transparent cover. In one piece. The models are mounted individually on a stand with base. Weight of the series: 7.1 kg.

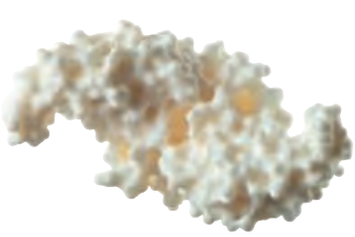


ZOS 57/20 · DNA DOUBLE HELIX (TYPE B-DNA)

Scale: 30 x 10E6 :1, in SOMSO-Plast. Developed in co-operation with Prof. Dr. H.P. Jennissen, Dr. M. Laub and Prof. Dr. G. Witt. Based on data gained from x-ray diffraction studies, the model shows a section of a DNA double helix. The conformation of this double helix corresponds to the so-called B-DNA, which is physiologically more significant when compared with the respective A or Z form. This is a matter of a clockwise double helix with 10.5 base pairs per coil and equivalent to a passage height of approx. 3.4 nm. It complies, in the main, with the model of the DNA structure developed by Watson and Crick in 1953. Although the human genome has billions of base pairs the top or bottom section of the model shows 12 base pairs, respectively, which means to say 1 coil. In one piece. Mounted on a rotating stand with base. Height: 41.5 cm., depth: 18 cm., width: 18 cm., weight: 995 g.

ZOS 57/4 · CHROMOSOME MODEL

In SOMSO-Plast. After Christian Groß, Head of Biology Department (retired). Enlarged 50,000 times the model shows a submetacentric (with the centromer away from the middle) metaphase chromosome. Movable from the stand with base. Height: 46 cm., depth: 18 cm., width: 18 cm., weight: 1.4 kg.



ZOS 57/10 · PROTEIN MODEL (HUMAN BONE MORPHOGENETIC PROTEIN BMP-2)

Scale: 20 x 10E6 : 1, in SOMSO-Plast. Developed in co-operation with Prof. Dr. H.P. Jennissen, Dr. M. Laub and Prof. Dr. G. Witt. On a stand with base. Height: 7 cm., depth: 13.6 cm., width: 7.1 cm., weight: 160 g.

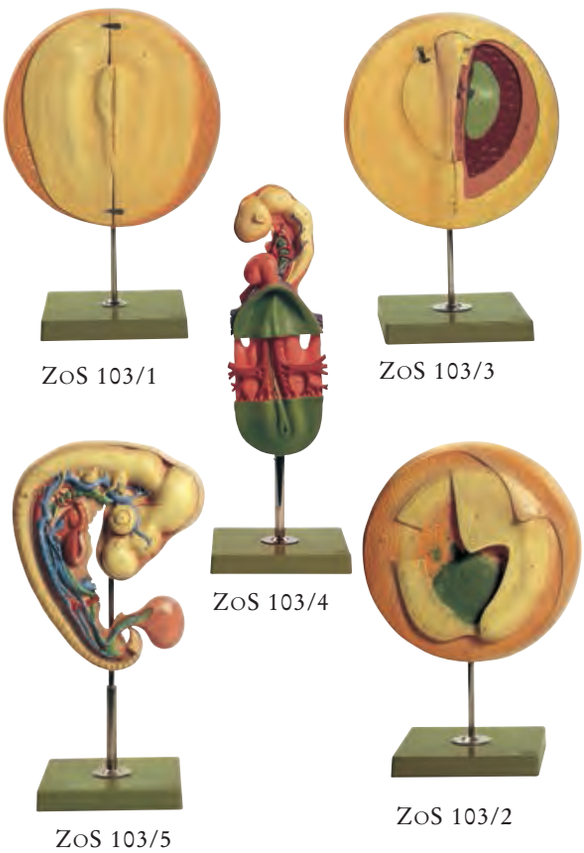
ZOS 57/10-E · PROTEIN MODEL (HUMAN BONE MORPHOGENETIC PROTEIN BMP-2)

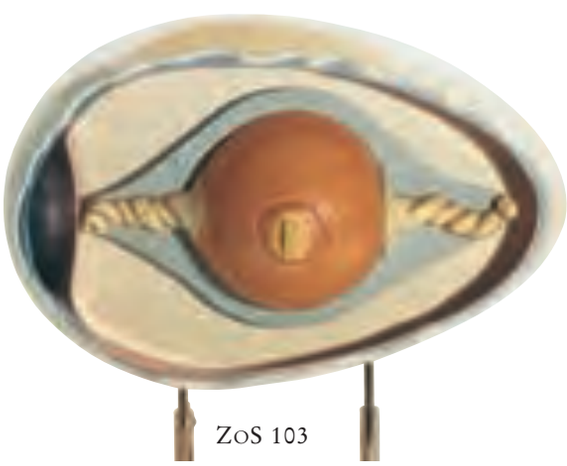
Scale: 11 x 10E6 : 1, in SOMSO-Plast. Developed in co-operation with Prof. Dr. H.P. Jennissen, Dr. M. Laub and Prof. Dr. G. Witt. On a stand with base. Height: 3.8 cm., depth: 7.8 cm., width: 4.4 cm., weight: 30 g.

ADVANCE NOTICE:

ZOS 57/30 · T-RNA MODEL

in SOMSO-Plast. Developed in co-operation with Prof. Dr. H.P. Jennissen, Dr. M. Laub and Prof. Dr. G. Witt. On a stand with base.





ZoS 103 - ZoS 103/5 · Series of Models Showing the Embryonic Development of the Domestic Hen

Description as per ZoS 103 to ZoS 103/5 series of 6 models, in SOMSO-Plast. After Prof. Dr. M. Lindauer and Christian Groß, Head of Biology Department (retired). Weight of the series: 9.9 kg.

ZoS 103/1 · Germinal Disc of a Fertilised but Unincubated Egg

The model shows the germinal disc in the stage of the formation of the yolk membrane - linearly enlarged 70 times, in SOMSO-Plast. In one piece. On a stand with base. Height: 45 cm., width: 28 cm., depth: 18 cm., weight: 1.4 kg.

ZoS 103/2 · Chicken's Embryo After approx. 20 Hours Incubation

This model shows a section of the membrane enlarged 56 times linearly, in SOMSO-Plast. Separates into 4 parts. On a stand with base. Height: 41 cm., width: 28 cm., depth: 18 cm., weight: 1.3 kg.

ZoS 103/3 · Chicken's Embryo After Approx. 33 Hours Incubation

Enlarged 53 times linearly, in SOMSO-Plast. A concentric part of the embryo can be removed from the yolk, Somites and chorda are visible through a ventral window. Separates into 2 parts. On a stand with base. Height: 44 cm., width: 29 cm., depth: 18 cm., weight: 1.4 kg.

ZoS 103/4 · Chicken's Embryo After Approximately 50 Hours Incubation

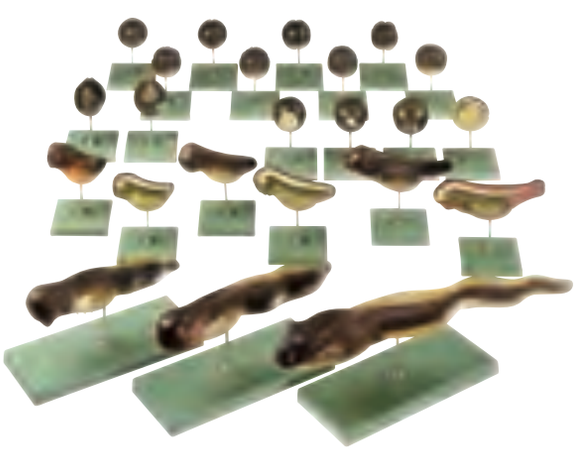
Enlarged 54 times linearly, in SOMSO-Plast. The embryo separated from the vitelline mass shows the changes of position caused by the bending of the neck and turning of the anterior body. In one piece. On a stand with base. Height: 51 cm., width: 18 cm., depth: 18 cm., weight: 900 g.

ZoS 103/5 · Chicken's Embryo After Approximately 4 Days Incubation

Enlarged 45 times linearly, in SOMSO-Plast. The embryo opened on the right gives a general view of the detailed regions of the central nervous system and the structure of the cerebral nerves. In one piece. On a stand with base. Height: 45 cm., width: 26 cm., depth: 18 cm., weight: 1.4 kg.

ZoS 103 · Structure of Chicken's Egg

The model shows an unincubated, fertilised chicken's egg, enlarged 6.5 times linearly, in SOMSO-Plast. In one piece. On a stand and base with explanatory notes. Height: 43 cm., width: 39 cm., depth: 26 cm., weight: 3.5 kg.

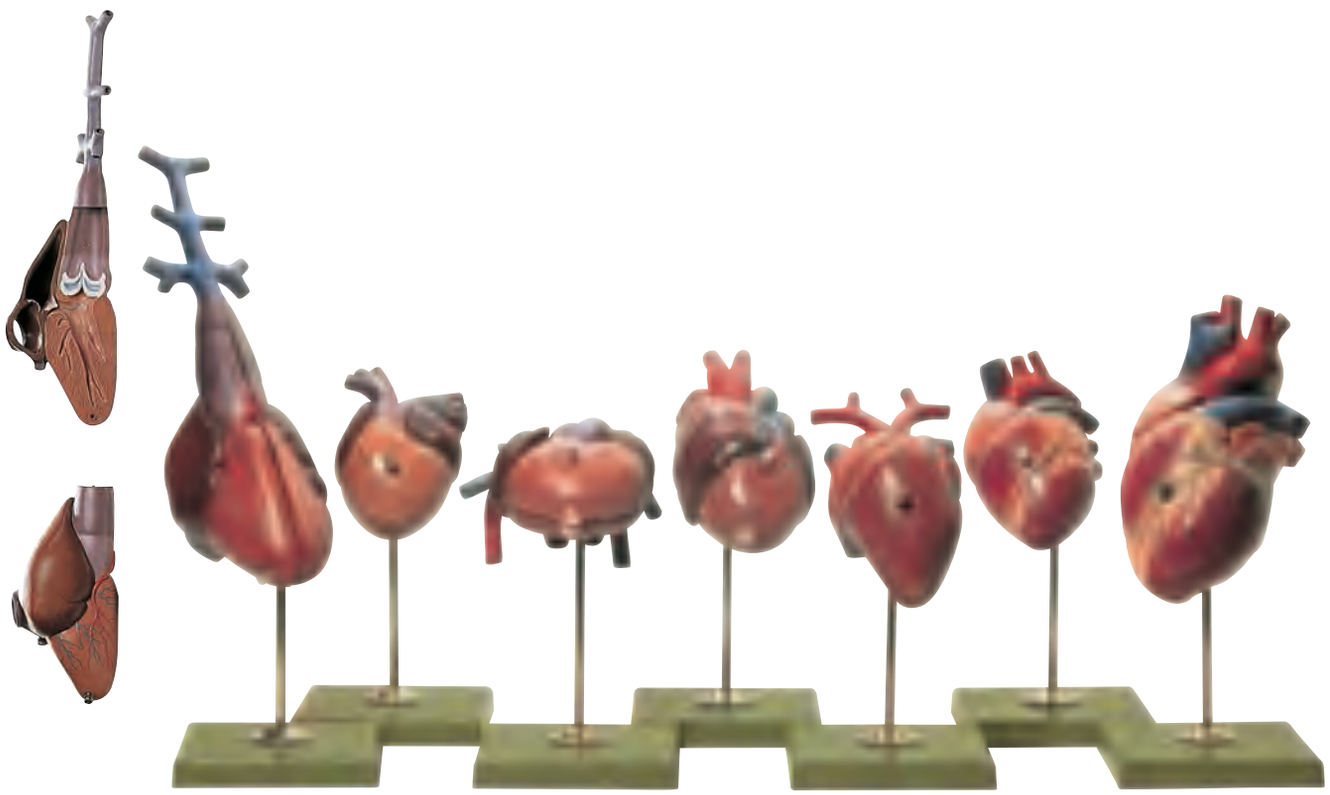


SOMSO MODELL IN PLASTER

Zo 61 · Models Showing the Development of the Frog

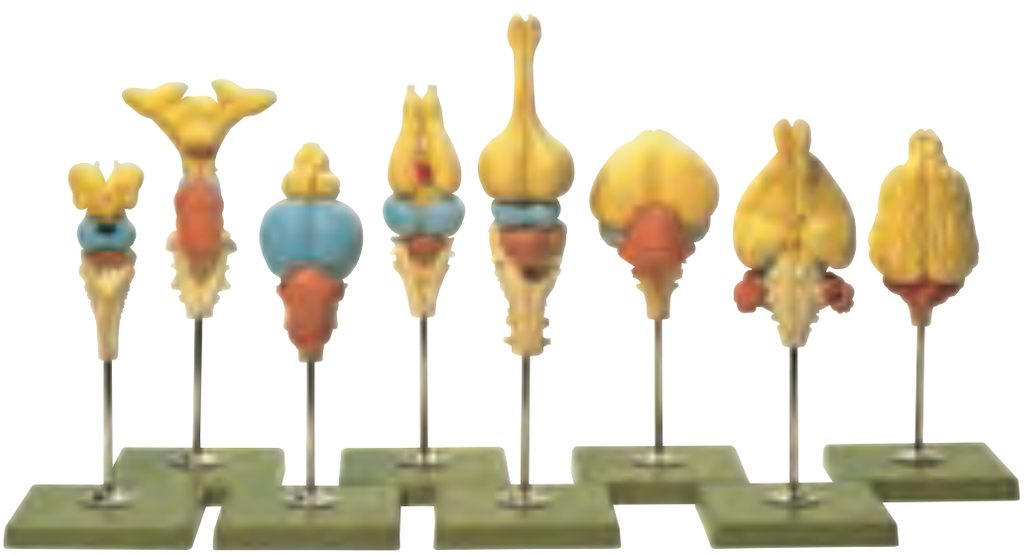
Consisting of 23 individual models showing the development of a fertilised frog's egg to a tadpole. A new production of Ziegler models after Prof. Ecker. Enlarged approx 50 times. Diameter of a natural egg approx. 1.5 mm. A. Stages of division (8 models), B. Stages in the formation of the nuclear membrane (4 models), C. Formation of the neural channel (2 models), D. Development of the tapole (6 models), E. Swimming tadpole (3 models). Each model individually mounted on a stand with base and in one piece. Weight of the series: 10 kg.

SINCE 1876



ZoS 54/1 · Models of Vertebrate Hearts

In SOMSO-Plast. The internal structure is shown in all its detail. The direction of the blood flow is marked. 7 models, natural size and slightly enlarged. 1. Fish (Esox lucius), 2. Frog (Rana esculenta), 3. Tortoise (Emys orbicularis), 4. Crocodile (crocodylus niloticus), 5. Bird (Golden Eagle - Aquila chrysaetos), 6. Dog (Canis lupus familiaris) and 7. Human Being (Homo sapiens). Comprises 14 parts. Each model individually mounted on a stand with base. Weight of the series: 2.9 kg.



ZoS 55 · Models of Vertebrate Brains

New edition of the Ziegler series after Prof. Dr. A. Wiedersheim. In SOMSO-Plast. The series covers the following 8 models (many times enlarged): 1. Lampetra fluviatilis, 2. Dogfish (Scyliorhinus caniculus), 3. Trout (Salmo trutta fario), 4. Frog (Rana esculenta), 5. Alligator (Alligator mississippiensis), 6. Dove (Columba livia domestica), 7. Rabbit (Oryctolagus cuniculus) and 8. Dog (Canis lupus familiaris). In one piece. Each model individually mounted on a stand with base. Weight of the series: 1.6 kg.

ZoS 55/9 · Model of Rat Brain

Enlarged approx. 4.25 times, in SOMSO-Plast. On a stand with base. Height: 25 cm., length: 12 cm., depth: 12 cm., weight: 0.3 kg.

ZoS 50/1 · Young Gorilla Skull

Gorilla g. gorilla (Savage a. Wyman 1847), male (1 1/2 years old). Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 280 g.

ZoS 52/1 · Orang-Utan Skull

Pongo p. pygmaeus abeli (Clark 1826), female. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 385 g.

ZoS 52/2 · Skull of Young Orang-Utan

Pongo p. Pygmaeus. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 250 g.

ZoS 50 · Gorilla Skull

Gorilla g. gorilla (Savage a. Wyman 1847), male, in SOMSO-Plast. Natural cast. Lower jaw movable and can be removed. Weight: 1.07 kg.

ZoS 51 · Gorilla Skull

Gorilla g. gorilla (Savage a. Wyman 1847), female. Natural cast, in SOMSO-Plast. Lower jaw movable, and can be removed. Weight: 770 g.

ZoS 53/1 · Skull of Young Chimpanzee

Pan tr. troglodytes (Blumenbach 1799). Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 160 g.

ZoS 53/2 · Chimpanzee Skull

Pan tr. troglodytes, female. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 500 g.

ZoS 53 · Chimpanzee Skull

Pan tr. troglodytes (Blumenbach 1799), male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 420 g.

ZoS 53/3 · Baboon Skull

Papio doguera, male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 355 g.

ZoS 53/4 · Rhesus Ape Skull

Macaca mulatto, male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 160 g.

ZoS 53/5 · Tupaia-Skull

Tupaia glis (Diard, 1820), male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 10 g.

ZoS 52 · Orang-Utan Skull

Pongo p. pygmaeus (Hoppins 1763), male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 560 g.

ZoS 53/20 · Beaver Skull

Castor fiber (LINNE, 1758). Natural cast in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 300 g.

ZoS 53/7 · Gibbon Skull

Hylobates syndactylus (Raffles, 1821), male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 140 g.

ZoS 53/6 · Howling Monkey Skull

Alouatta belzebul (Linnaeus, 1766) male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 100 g.

ZoS 53/110 · Artificial Skeleton of Chimpanzee

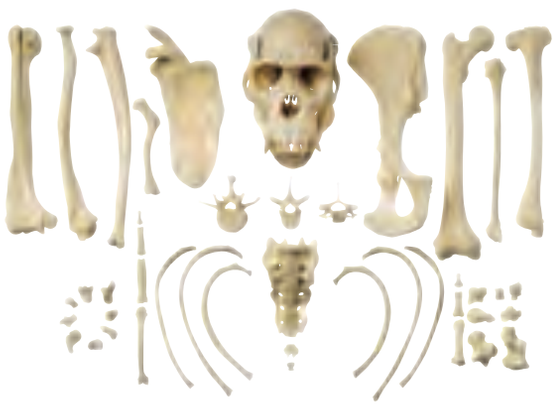
Pan troglodytes. Natural cast of the bones of an adult male, in SOMSO-Plast. Age: approx. 12 years. Showing life-size all the anatomical details of the bone structure. Skull with removable vault and mandible. Joints mounted and movable, upper and lower extremities removable. The right and left foot can be detached from the leg. Mounted upright on a stand. Height: 90 cm., width: 82 cm., depth: 40 cm., weight: 10.3 kg.

ZoS 53/401 · Artificial Skeleton of Chimpanzee

As ZoS 53/110, but mounted up-right on a stand.

ZoS 53/107 · Artificial Skull of a Chimpanzee

Male. Natural cast, in SOMSO-Plast. Lower jaw movable and can be removed. Weight: 607 g.



ZoS 53/142 · Collection of Typical Chimpanzee Bones

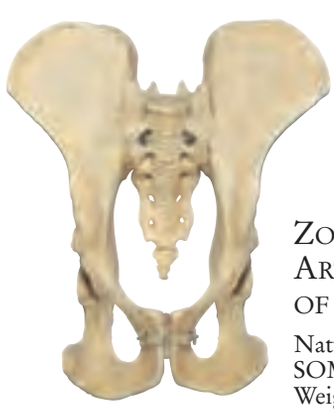
Consisting of skull (mounted), scapula, clavicle, humerus, radius, ulna, carpal bones, bones of the index finger, 3 each right and left ribs, one each cervical, thoracic and lumbar vertebra, innominate, sacrum, coccyx, femur, patella, tibia, fibula, tarsal bones and bones of the big toe. Supplied in plastic bags in a cardboard carton. Height: 26 cm., width: 50 cm., depth: 31 cm., weight: 3.2 kg.

ZoS 53/122 · Artificial Foot Skeleton of a Chimpanzee

Natural cast, in SOMSO-Plast. Weight: 120 g.

ZoS 53/131 · Artificial Hand Skeleton of a Chimpanzee

Natural cast, in SOMSO-Plast. Weight: 107 g.



ZoS 53/116 · Artificial Pelvis of a Chimpanzee

Natural cast, in SOMSO-Plast. Weight: 640 g.

ZO 87 · PIG'S SNOUT WITH MOUTH DISEASE

Natural cast. Mounted on a board. In one piece. Height: 17 cm., width: 24 cm., depth: 18 cm., weight: 1 kg.

ZO 88 · PIG'S HOOF WITH FOOT DISEASE

Natural cast. Mounted on a board. In one piece. Height: 19 cm., width: 12 cm., depth: 12 cm., weight: 400 g.

ZO 89 · GLANDERS IN A HORSE

Natural cast. Median section through the nose and throat cavities, larynx showing the form of the disease. Mounted on a board. In one piece. Height: 33 cm., width: 10 cm., depth: 8 cm., weight: 3.7 kg.

50/5 · MODEL OF THE CARCASS OF A PIG

2/3 natural size. Produced in collaboration with the Bavarian Institute for Animal-Breeding in Grub near Munich. The model shows the carcass of a fatted pig that was slaughtered when it weighed 100 kg. Special points to notice are the length of the body, the amount of meat and the lack of fat. When cutting up the model the method recommended by the German Agricultural Society (DLG) - "simplified DLG method of cutting" has been followed. For this reason it is of special importance for all areas of the Federal Republic of Germany and spans the methods used in different parts of the country which do not always conform with the accepted way of slaughtering pigs. Separates into 8 parts. On a stand with base. Height: 119 cm., width: 38 cm., depth: 38 cm., weight: 7.5 kg.

SOMSO MODEL IN PLASTER

ZO 84 · COW'S MOUTH WITH MOUTH DISEASE

Natural cast. Mounted on a board. In one piece. Height: 20 cm., width: 23 cm., depth: 26 cm., weight: 1.1 kg.

ZO 85 · COW'S HOOF WITH FOOT DISEASE

Natural cast. Mounted on a board. In one piece. Height: 22 cm., width: 18 cm., depth: 17 cm., weight: 700 g.

50/6 · MODEL OF THE CARCASS OF A BULLOCK

1/2 natural size. Produced in collaboration with the Bavarian Institute for Animal-Breeding in Grub near Munich. The model shows the left half of the carcass of a bullock that was slaughtered when it weighed 560 kg and was 15 months old. Special features are the full thigh, the broad back and the well-developed muscles in the shoulder. The carcass is symmetrical with a thin layer of surface fat covering it. The model has been cut up in portions as recommended by the German Agricultural Society (DLG). Separates into 12 parts. On a stand with base. Height: 190 cm., width: 45 cm., depth: 43 cm., weight: 15.5 kg.

ZO 86 · COW'S TONGUE WITH MOUTH DISEASE

Natural cast. Mounted on a board. In one piece. Height: 12 cm., width: 45 cm., depth: 13 cm., weight: 700 g.

Zoology 5 - Thoroughbred animal statuettes

SINCE 1876

An extensive series of SOMSO models which shows,
in detail, the varieties of Animal Breeds.

The models are made of special plaster and delivered on a base.
Special list on request.

Zo 66 · Breeding Pig „Ingrid“

Zo 67 · Ennobled country pig

Zo 66/III-12 ·
Bavarian breeding pig

ZO 73 ·
MODEL OF EAST FRESIAN BREEDING BULL

ZO 74/II-9 ·
"SCHWARZBUNTE" EAST FRESIAN COW

ZO 74/VIII-52 · HERKULES, HOLLÄNDER BULL

ZO 74/VIII-49 · HENNI, OLDENBURGER COW

ZO 69 ·
"HÖHENFLECKVIEH" SIMMENTALER-BULL

ZO 74/II-1 · SIMMENTHALER-BULL

Zo 74/II-2 · Simmenthaler-Cow

Zo 74/II-26 · Jersey-Cow

Zo 74/II-28 · Ayrshire-Cow

Zo 71 · Model of Fresian Dutch Cow

Zo 62/I-4 · Belgian Mare "Charlotte"

Zo 62/1 · Bavarian Warmblut Mare

Zo 62/I-17 · "O Bajar", original Arabian Horse

Zo 62/I-18 · "Great Horse"

Zo 62/I-8 · Demonstration model of a horse

Zo 62/I-19 · Arabian stallion

SOMSO
MODELLE
SINCE 1876

Realistic life-size Animal Models

Nature is our Model

Zoology

Together with Christian Groß, Head of Biology Department (retired), SOMSO has developed the Central Europe series of Amphibians and Reptiles.

Manfred Eichler, Biology Model Maker from the SOMSO painting-department painting a life-size animal model.

Amphibians and Reptiles of Central Europe

A series of realistic, life-size animal models, produced in SOMSO-Plast and developed in cooperation with Christian Groß, Head of Biology Department (retired). These models are hand-painted and produced solely in Coburg and provide a valuable tool for science education.

The lifelike models are reproduced with incomparable accuracy down to the smallest detail including the underside. All the structures and surfaces correspond to the features of the original specimen.

Frog spawn ZoS 1008 in detail.

Underside ZoS 1010/1

Underside ZoS 1036

Underside ZoS 1006

Christian Groß, Head of Biology Department (retired), compares a living example of the red variety of the spotted fire salamander with the painted version of the SOMSO model ZoS 1001/1MRV.

All models are supplied in a transparent box with a label and description printed on the base. The measurements mentioned are the size of the box for each model.

Current scientific descriptions are used in this catalogue.Descriptions may be altered from time to time in line with scientific development.

SINCE 1876

ZoS 1000 ·
ALPINE SALAMANDER, MALE

Salamandra a. atra. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1001 ·
SPOTTED FIRE SALAMANDER, MALE

Salamandra s. salamandra. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1002 ·
SPOTTED FIRE SALAMANDER, FEMALE

Salamandra s. salamandra. Size of the box: Height 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1004 ·
ALPINE NEWT, PAIR

Triturus alpestris. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.14 kg.

ZoS 1005 · PALMATE NEWT, PAIR

Triturus helveticus. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.16 kg.

ZoS 1000/3 ·
STRIPED FIRE SALAMANDER, MALE

Salamandra atra aurorae. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1001/RV ·
FIRE SALAMANDER, RED VARIETY, MALE

Salamandra s. salamandra.
Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1003 ·
STRIPED FIRE SALAMANDER, MALE

Salamandra s. terrestris. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1003/1 ·
STRIPED FIRE SALAMANDER, FEMALE

Salamandra s. terrestris. Size of the box: Height: 7.5 cm., depth: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1006 ·
CRESTED NEWT, PAIR

Triturus cristatus.
Size of the box:
Height: 14 cm.,
depth: 18 cm.,
depth: 18 cm.,
weight: 0.2 kg.

ZoS 1007 ·
SMOOTH NEWT, PAIR

Triturus vulgaris.
Size of the box:
Height: 14 cm.,
width: 18 cm.,
depth: 18 cm.,
weight: 0.2 kg.

ZoS 1008 ·
MIDWIFE TOAD, MALE WITH SPAWN

Alytes obstetricans. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.14 kg.

ZoS 1008/1 ·
MIDWIFE TOAD, FEMALE

Alytes obstetricans. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.13 kg.

Underside see page 188

ZoS 1010/1 ·
FIRE-BELLIED TOAD

Bombina bombina. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1011 ·
COMMON SPADEFOOT

Pelobates fuscus. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.14 kg.

ZoS 1009 ·
YELLOW-BELLIED TOAD

Bombina variegata. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1012 ·
COMMON TOAD, MALE

Bufo bufo. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1014 ·
NATTERJACK

Bufo calamita. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1013 · COMMON TOAD, FEMALE

Bufo bufo. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1015 · GREEN TOAD

Bufo viridis. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1016/1 · Common Tree Frog, Female (2 models)

Hyla arborea. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1016/2 · Common Tree Frog, Female

Hyla arborea. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1016/4 · Common Tree Frog, seldom light blue variety, Female

Hyla arborea. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1017 · Common Frog, Male

Rana temporaria. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1018 · Common Frog, Female

Rana temporaria. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1019 · Moor Frog

Rana arvalis. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1020 · Agile Frog

Rana dalmatina. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1021 · Pool Frog

Rana lessonae. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1023 · Edible Frog, Male

Rana kl. esculenta. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1024 · Edible Frog, Female

Rana kl. esculenta. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1022 · Marsh Frog

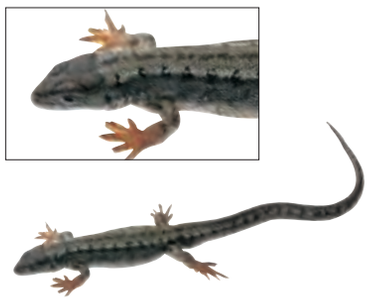
Rana ridibunda. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1027 · Common Wall Lizard, Male

Podarcis muralis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1027/1 · Common Wall Lizard, Female

Podarcis muralis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.



ZoS 1029 · Viviparous Lizard, Male

Zootoca vivipara. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.12 kg.

ZoS 1027/2 · Common Wall Lizard, Male

Podarcis muralis nigriventris. "East-Bavarian Danube-Population". Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1027/3 · Common Wall Lizard, Female

Podarcis muralis nigriventris. "East-Bavarian Danube-Population" Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1029/1 · Viviparous Lizard, Female

Zootoca vivipara. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.12 kg.

ZoS 1028 · Green Lizard, Male

Lacerta viridis, Size of the box: Height: 7 cm., width: 32 cm., depth: 19 cm., weight: 0.6 kg.

ZoS 1028/1 · Green Lizard, Female (half grown)

Lacerta viridis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.23 kg.

ZoS 1030 · Sand Lizard, Male

Lacerta agilis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.23 kg.

ZoS 1030/1 · Sand Lizard, Female

Lacerta agilis. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

SINCE 1876

ZoS 1026/2 · Slow Worm, Female

Anguis fragilis. Size of the box: Height: 6.5 cm., width: 32 cm., depth: 19 cm., weight: 0.46 kg.

ZoS 1026 · Slow Worm

Anguis fragilis. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 1036 · Common Viper, Young Male

Vipera berus. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1036/1 · Common Viper, young melanic

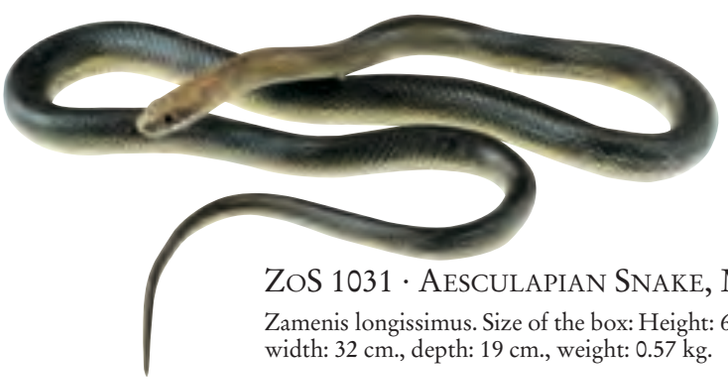
Vipera berus. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1032 · Smooth Snake, Male

Coronella austriaca. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.29 kg.

ZoS 1035 · Asp Viper

Vipera aspis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.4 kg.



ZoS 1031 · Aesculapian Snake, Male

Zamenis longissimus. Size of the box: Height: 6.5 cm., width: 32 cm., depth: 19 cm., weight: 0.57 kg.

ZoS 1033 · Grass Snake, Female

Natrix natrix natrix. Size of the box: Height: 6.5 cm., width: 32 cm., depth: 19 cm., weight: 0.7 kg.

ZoS 1034 · Dice Snake

Natrix tesselata. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.4 kg.

ZoS 1033/1 · Barred Grass Snake, Female

Natrix natrix helvetica. Size of the box: Height: 6.5 cm., width: 32 cm., depth: 19 cm., weight: 0.7 kg.

ZoS 1036/2 · Common Viper, adult Male

Vipera berus. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.3 kg.

ZoS 1037 · Nose-horned Viper

Vipera ammodytes. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.33 kg.

Zoology 6 - Realistic life-size Animal Models

ZoS 1025 · European Pond Terrapin, Male
Emys orbicularis. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.5 kg.

Further life-like, scientifically accurate Mediterranean animal models

ZoS 1025/1 · Hermann's Tortoise, Male
Testudo hermanni. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.5 kg.

Advance Notice:

ZoS 1000/1 · Alpine salamander, Female
Salamandra a. atra

ZoS 1000/2 · Alpine salamander, 2 young specimens
Salamandra a. atra

ZoS 1003/SV · Striped fire salamander, Male
Salamandra s. terrestris. "Solling-Population"

ZoS 1205 · Marbled Newst, Male and Female
Triturus m. marmoratus

ZoS 1211 · Parsley Frog
Pelodytes punctatus

ZoS 1222 · American Bullfrog, Male
Rana catesbeiana

ZoS 1230 · Western Three-toed Skink
Chalcides striatus

SOMSO-Poster A 187 »Realistic life-size Animal Models« on request.

ZoS 1204 ·
Moorish Gecko

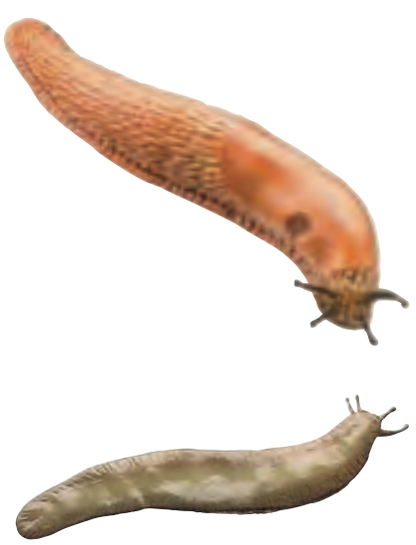
Tarentola mauritanica. Size of the box: Height: 8 cm., width: 12 cm., depth: 12 cm., weight: 0.2 kg.

ZoS 1206 · Mediterranean Chameleon

Chamaeleo chamaeleon. On a base. Size of the box: Height: 15 cm., width: 12 cm., depth: 12 cm., weight: 0.15 kg.

ZoS 1207 ·
Vineyard Snail

Helix pomatia. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.



ZoS 1208 ·
Red Slug

Arion rufus. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.

ZoS 2001 · Sea-Horse

Hippocampus. On a glass base. Height: 8.5 cm., weight: 0.05 kg.

Nature is our Model

Separable SOMSO plant models – an ever expanding collection

Nearly every botanical SOMSO model has been developed in cooperation with Prof. Dr. W. Weber.

Professor Dr. W. Weber together with Mrs. Viola Speer taking a look at the plant model BoS 22/4-E.

Botany

List of SOMSO models according to plant system:

Cryptogams:

BoS 14/2	Liverwort
BoS 14/3	Liverwort
BoS 14/3-A	Liverwort
BoS 14/4	Horsetail
BoS 14/4-A	Common Horsetail
BoS 14/5	Worm Fern, Prothallium
BoS 14/5-A	Worm Fern, Spore Formation
BoS 14/6	Model of Mnium affine (Gametophyte with Sporophyte)

Angiospermous plants:

A) Dicotyledonous plants:

BoS 1	Apple Flower
BoS 2	Apple Flower – Ovary in Cross Section
BoS 3	Apple Flower – Ovary in Longitudinal Section
BoS 4/10	Model of Hazelnut Pollen Grain
BoS 15/1	Salvia pratensis, Flower
BoS 15/4	Smelling Primrose
BoS 15/6	Real Camomile
BoS 15/7	Model showing Germination
BoS 15/8	Flower of the Grape Vine
BoS 15/9	Potato Flower
BoS 15/11	Rape, Flower
BoS 15/12	Rape, Pod
BoS 15/14	Flower of Willow, Male and Female
BoS 15/14-A	Willow Catkin
BoS 15/15	Pea, Flower
BoS 15/16	Pea, Pod
BoS 15/19	Dandelion, Inflorescence, Individual Flower and Fruit
BoS 15/20	Buttercup, Flower and Fruit
BoS 15/20-A	Buttercup, Flower
BoS 15/20-B	Buttercup, Fruit
BoS 15/21	Cherry Flower
BoS 15/33	Cacao Fruit
BoS 17	Deciduous Leaf
BoS 17/1	Section through the Leaf of Helleborus
BoS 17/2	Stoma of the Lower Surface of a Christmas Rose Leaf
BoS 21/1	Section through a Two Year Old Twig of the Lime Tree
BoS 22	Open Collateral Vascular Bundle of a Dicotyle Plant
BoS 22/4	Section through the Stem of a one Year Old Dicotyle Plant
BoS 22/4-E	Section through the Stem of a one Year Old Dicotyle Plant
BoS 22/5	Young Root of the Buttercup
BoS 22/5-E	Young Root of the Buttercup
BoS 22/6	Cross Section through the Peripheral Part of a Stem

B) Monocotyledonous plants:

BoS 14/10	Helmet Orchid, Flower
BoS 15/2	Garden Tulip, Flower
BoS 15/3	Tulip Bulb
BoS 15/5	Earlet of Rye
BoS 15/7	Model showing Germination
BoS 17/3	Maize leaf in Longitudinal and Cross Section
BoS 18	Model of a Cross Section of a Wheat Grain as an Example of a Caryopsis
BoS 20/2	Root tip of a Barley plant
BoS 22/3	Section through the Peripheral Part of a Monocotyle Stem
BoS 22/7	Root of Shallot Bulb

Gymnospermous plants:

BoS 15/7	Model showing Germination
BoS 15/30	Pine, Male
BoS 15/31	Pine, Female
BoS 15/31-1	Pine Cone Scale
BoS 21	Anatomical Structure of Pine Wood
BoS 21/2	Needle Leaf of the Austrian Pine, Pinus nigra

The following models are of a general nature and cannot be categorized according to plant system:

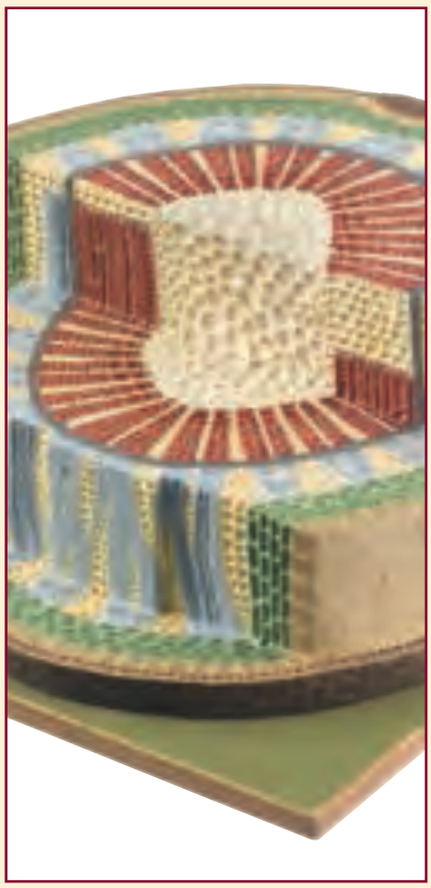
BoS 15/10	Example of not united Perianth of an Angiosperm Flower
BoS 16	Plant Cell
BoS 16/1	Plant Cell
BoS 16/2	Chloroplast of Higher Plant
BoS 19	Fertilisation of the Angiosperms
BoS 22/1	Series of Models showing the Typical Indirect Plant Cell Division

Microscopic Fungi:

BoS 14/1	White Mould

Fungi

SOMSO
MODELLE
SINCE 1876



Plant Models

Plant Morphology

Nature is our Model

Botaniy

Botany 1 - Plant models

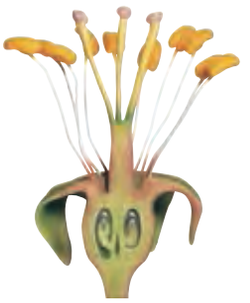
Dicotyledonous plants

BoS 1 · Apple Flower

Pirus malus, modelled from nature, enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Jung. Typical angiosperm flower, verticillate arrangement of the parts of the flower, perianth separated into calyx and corolla, petals removable to show the multiple stamen whorl and the underlying ovary with the fivefold stigma. On a stand with base and explanatory note. Separable into 6 parts. Height: 41 cm., width: 48 cm., depth: 45 cm., weight: 1.8 kg.

BoS 2 · Apple Flower - Ovary in Cross Section

Pirus malus, enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a stand with base and explanatory note. Height: 20 cm., width: 18 cm., depth: 18 cm., weight: 370 g.



BoS 3 · Apple Flower - Ovary in Longitudinal Section

Pirus malus, enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a stand with base and explanatory note. Height: 39 cm., width: 18 cm., depth: 18 cm., weight: 620 g.

BoS 15/4 · Smelling Primrose

Primula officinalis (cowslip), in SOMSO-Plast. After Prof. Dr. W. Weber. Median section through two heterostyled smelling primrose flowers, enlarged approx. 13 times. The relief presentation highlights the heterostyly to facilitate cross fertilization. In one piece. On a stand and base with explanatory note. Height: 42 cm., width: 33 cm., depth: 12 cm., weight: 1 kg.

BoS 15/6 · Real Camomile

Matricaria chamomilla, inflorescene (composite), enlarged approx. 9 times, in SOMSO-Plast. Ligulate flower 20 x magnification, tubular flower 80 x magnification. After Prof. Dr. W. Weber. In one piece. On a stand with base and explanatory note. Height: 33 cm., width: 38 cm., depth: 12 cm., weight: 800 g.

BoS 15/1 · Salvia Pratensis, Flower

Enlarged approx. 15 times, in SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. The mechanism of the stamens can be demonstrated. In one piece. On a stand with base and explanatory note. Height: 36 cm., width: 33 cm., depth: 18 cm., weight: 700 g.

BoS 15/9 · Potato Flower

Solanum tuberosum, enlarged approx. 10 times, in SOMSO-Plast, after Prof. Dr. W. Weber. Seperable by removal of the ovary with pistil and stamens. The ovary is cut longitudinally and one half of the ovary with two stamens can be removed. Separable into 3 parts. On a stand with base and explanatory note. Height: 39 cm., width: 24 cm., depth: 29 cm., weight: 1 kg.

BoS 15/10 · Example of a not united Perianth of an Angiosperm Flower

Enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. The model shows a median section of a flower with individual removable parts. Separable into 11 parts. On a base with explanatory note. Height: 54 cm., width: 39 cm., depth: 37 cm., weight: 2.4 kg.

BoS 15/12 · Rape Pod

Brassica napus, enlarged approx. 8 times, in SOMSO-Plast. After Prof. Dr. W. Weber. This model shows the typical architecture of a cruciferous plant pod. One of the two carpels can be separated from the placenta to which the seeds are attached. The pseudo septum with the seed containing placentas are also removable. Separable into 4 parts. On a base with explanatory note. Height: 51 cm., width: 18 cm., depth: 18 cm., weight: 600 g.

BoS 15/11 · Rape, Flower

Brassica napus, enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Separable into 2 parts. On a stand with base with explanatory note. Height: 34 cm., width: 28 cm., depth: 28 cm., weight: 700 g.

BoS 15/14 · Willow Flower, Male and Female

Enlarged approx. 80 times, in SOMSO-Plast. After Prof. Dr. Weber. In one piece. On a stand with base. Height: 35 cm., width: 33 cm., depth: 15 cm., weight: 1 kg.

BoS 15/14-A · Willow Catkin

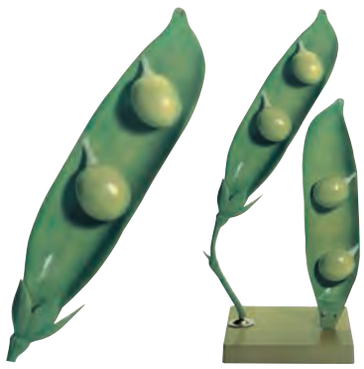
Enlarged approx. 8 times, in SOMSO-Plast. After Prof. Dr. W. Weber. A male and a female catkin. Interchangeable and hinged. Separable into 5 parts. On a base with explanatory note. Height: 37 cm., width: 18 cm., depth: 18 cm., weight: 1.2 kg.

Botany 1 - Plant models

Dicotyledonous plants

BoS 15/15 · Pea, Flower

Pisum sativum, enlarged approx. 9 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Separable into 3 parts. On a stand with base and explanatory note. Height: 40 cm., width: 23 cm., depth: 26 cm., weight: 850 g.



BoS 15/16 · Pea, Pod

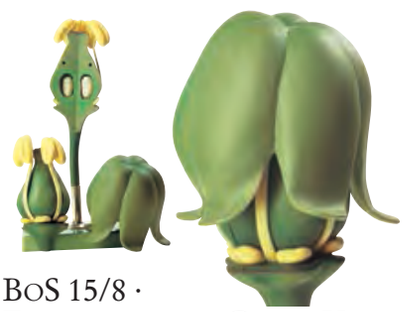
Pisum sativum, enlarged approx. 8 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Separable into 3 parts. On a stand with base and explanatory note. Height: 47 cm., width: 21 cm., depth: 18 cm., weight: 800 g.

BoS 15/20 · Buttercup, Flower and Fruit

Ranunculus acer, flower enlarged approx. 10 times, fruit enlarged approx. 20 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. Flower: Height: 34 cm., width: 26 cm., depth: 26 cm., weight: 700 g. Fruit: Height: 30 cm., width: 18 cm., depth: 18 cm., weight: 600 g.
Can be delivered as single models BoS 15/20-A, flower and BoS 15/20-B, fruit.

BoS 15/19 · Dandelion, Inflorescence, Individual Flower and Fruit

Taraxacum officinale, enlarged approx. 8 times, made in SOMSO-Plast. After Prof. Dr. W. Weber. The inflorescence is longitudinally sectioned. The individual flower and fruit can be removed from the base. With explanatory note. Height: 35 cm., width: 33 cm., depth: 18 cm., weight: 1.1 kg.



BoS 15/8 · Flower of the Grape Vine

Vitis vinifera, enlarged approx. 50 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The corolla leaves are fused as in nature. The corolla is removable as a whole. The ovary is cut longitudinally. One part can be removed with two of the five stamens and the two ovary compartments with ovules are to be seen. Separable into 3 parts. On a stand with base and explanatory note. Height: 33 cm., width: 18 cm., depth: 18 cm., weight: 900 g.

BoS 4/10 · Model of Hazelnut Pollen Grain

Corylus avellana, enlarged approx. 3800 times, in SOMSO-Plast. After Prof. Dr. Beug. In one piece. Weight: 100 g.

BoS 15/21 · Cherry Flower

Sweet cherry, Prunus avium, enlarged approx. 9 times, in SOMSO-Plast. After Prof. Dr. W. Weber. One part of the cup-shaped receptacle with one sepal, two petals and a group of stamens is removable, exposing the middle ovary not grown together with the receptacle which is typical for the Prunoideae. Separable into 3 parts, on a stand with base and explanatory note. Height: 33 cm., width: 31 cm., depth: 31 cm., weight: 800 g.

BoS 15/33 · Cacao Fruit

Theobroma cacao, natural size, made of SOMSO-Plast. According to Prof. Dr. W. Weber. Separable into 7 parts. On a base. Height: 30 cm., width: 17.5 cm., depth: 17.5 cm., weight: 2 kg.

Monocotyledonous plants

BoS 15/2 · Garden Tulip, Flower

Tulipa gesneriana, enlarged approx. 4 times, in SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. One Half of the corolla can be removed to show the stamens and the pistill. The arrangement of the ovules is shown in the detachable ovary. Separable into 3 parts. On a base with explanatory note. Height: 42 cm., width: 18 cm., depth: 18 cm., weight: 1 kg.

BoS 15/3 · Tulip Bulb

Tulipa gesneriana, enlarged approx. 5 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model shows the longitudinal section of a shooting tulip bulb. Separable into 3 parts. On a base with key. Height: 31 cm., width: 18 cm., depth: 18 cm., weight: 680 g.

BoS 15/5 · Earlet of Rye

Secale cereale, enlarged approx. 25 times, in SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. Separable into 4 parts to show the typical structure of an earlet of grass. On a stand with base and explanatory note. Height: 93 cm., width: 35 cm., depth: 18 cm., weight: 800 g.

BoS 14/10 · Helmet Orchid, Flower

Orchis militaris, enlarged 13 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model depicts the complicated structure of an orchid flower. Separable into 5 parts. On a stand with explanatory note on the base. Height: 26 cm., width: 19 cm., depth: 32 cm., weight: 900 g.

Germination of Plants

BoS 15/7 · Model showing Germination

A collection for comparing the germination of rye (10 times enlarged), bean (5 times enlarged), and spruce (20 times enlarged). In SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. The model clearly demonstrates that: 1. the rye (Secale cereale) seed pushes up from the soil a green shoot - monocotyle plant, 2. the bean (Phaesolus vulgaris) first appears as a two leaved shoot - dicotyle plant and 3. the shoot of the spruce (Picea excelsa) appears from the earth by unfolding their star-shaped cotyledons. Separable into 8 parts. On a base with key. Height: 37 cm., width: 54 cm., depth: 14 cm., weight: 3.7 kg.

Gymnospermous plants

BoS 15/31 · Pine, Female

Pinus silvestris, inflorescence enlarged approx. 20 times, seed scale with ovules and covering scale enlarged approx. 80 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Upper part removable. On base with explanatory note. Height: 33 cm., width: 33 cm., depth: 15 cm., weight: 1 kg.

BoS 15/30 · Pine, Male

Pinus silvestris, flower enlarged approx. 18 times, stamen enlarged approx. 90 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a stand with base with explanatory note. Height: 33 cm., width: 33 cm., depth: 15 cm., weight: 700 g.

BoS 15/31-1 · Pine Cone Scale

Pinus silvestris, enlarged approx. 8 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Mature seed scale with two winged seeds. In one piece. On base with explanatory note. Height: 18 cm., width: 12 cm., depth: 12 cm., weight: 400 g.

Botany 1 - Plant models

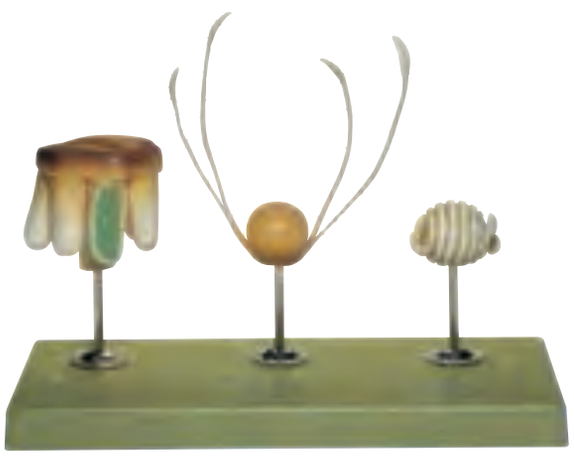
Microscopic Fungi, Cryptogams

BoS 14/1 · White Mould

Mucor mucedo, enlarged approx. 250 times, in SOMSO-Plast, according to Prof. Dr. W. Weber. The model shows sexual and asexual reproduction. Separable into 3 parts. Mounted on a board with explanatory note. Height: 18.5 cm., width: 32 cm., depth: 25.5 cm., weight: 600 g.

BoS 14/3-A · Liverwort

Marchantia polymorpha, enlarged approx. 10 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Thallus with three gemma cups each containing gemmae. The thallus becomes either male or female by attaching the two antheridial or two archegonial branches. One antheridial branch has been cut vertically and one part of it can be removed. Separable into 5 parts. On a base with explanatory note. Height: 19 cm., width: 26 cm., depth: 32 cm., weight: 1 kg.



BoS 14/4 · Horsetail

Equisetum arvense, Sporophyll with sporangium, enlarged approx. 50 times, spore with unrolled and rolled up spore bands enlarged approx. 500 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a stand with base and explanatory note. Height: 30 cm., width: 33 cm., depth: 15 cm., weight: 800 g.

BoS 14/2 · Liverwort

Marchantia polymorpha. Antheridium, enlarged approx. 1500 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a base with explanatory note. Height: 35 cm., width: 18 cm., depth: 18 cm., weight: 1 kg.

BoS 14/3 · Liverwort

Marchantia polymorpha. Archegonium, enlarged approx. 1000 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a base with explanatory note. Height: 36 cm., width: 18 cm., depth: 18 cm., weight: 700 g.

Cryptogams

BoS 14/4-A · Horsetail

Equisetum arvense. Fertile shoot approx. 6 times, sporophyll with sporangia approx. 50 times, vegetative shoot approx. 3 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a stand with base and explanatory note. Height: 35 cm., width: 33 cm., depth: 15 cm., weight: 1 kg.

BoS 14/5 · Worm Fern, Prothallium

Dryopteris filix-mas, enlarged approximately 45 times, in SOMSO-Plast. After Prof. Dr. W. Weber. One group each of antheridia and archegonia are on the underside of the prothallium, as well as numerous rhizoids that serve to anchor it to the ground. A small fern has developed from the fertilized egg cell of an archegonium. It consists of a juvenile leaf and a first root. In one piece. On a stand with a base and explanatory note. Height: 31 cm., width: 26 cm., depth: 20 cm., weight: 900 g.

BoS 14/5-A · Worm Fern, Spore Formation

Dryopteris filix-mas, enlarged approximately 550 times (Sporangium) / 850 times (Spore tetrad and germination), in SOMSO-Plast. After Prof. Dr. W. Weber. A sub-model shows a sporangium in the moment of opening. In addition to this, a spore tetrad and a spore germinating onto a prothallium are shown and enlarged to a greater extent. In one piece. On a stand with explanatory note on the base. Height: 30 cm., width: 18.5 cm., depth: 19 cm., weight: 950 g.

BoS 14/6 · Model of Mnium Affine Gametophyte with Sporophyte

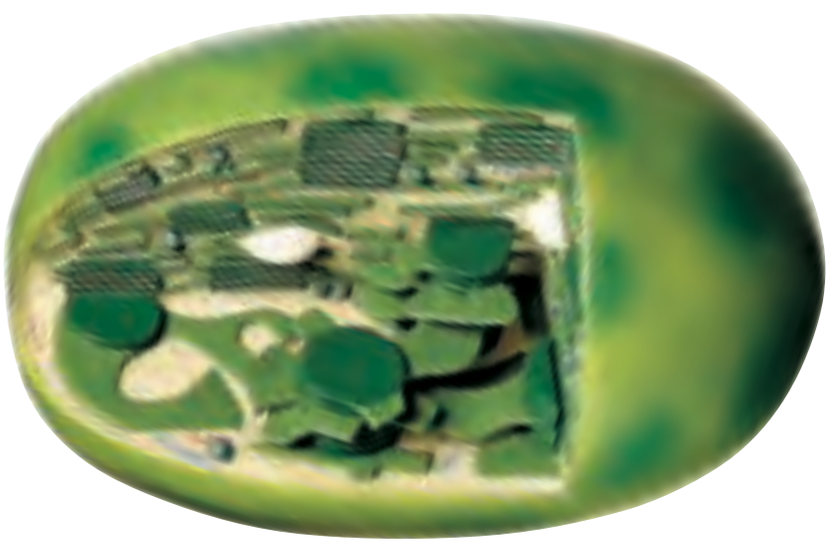
Enlarged approx. 12 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The mature sporogonium with seta can be exchanged for an immature sporogonium with seta, an antheridium or an archegonium. The calyptra on the mature sporogonium is detachable. Comprises 6 parts. On a stand with base and explanatory note. Height: 37 cm., width: 18 cm., depth: 18 cm., weight: 700 g.

Botany 2 - Plant models

Plant Cell

BoS 16/1 · Plant Cell

Enlarged approximately 6000 times, made in special transparent plastic. After Prof. Dr. W. Weber. The model provides a slightly schematic picture of a mature cell from the assimilation tissue of a plant. It combines both light and electron microscope aspects and shows the cell components mostly with their electron fine structure. Apart from the layering of the cell wall it shows the configuration of the cytoplasm and the essential cell organelles, such as the nucleus, chloroplasts, mitochondria, endoplasmatic reticulum, dictyosomes and ribosomes. The transparent material gives an insight into the structures behind the section thus eliminating the need for dismantling the model. The stand represents the neighbouring cells. On a base with description. In one piece. Height: 36 cm., width: 31 cm., depth: 27 cm., weight: 1.7 kg.

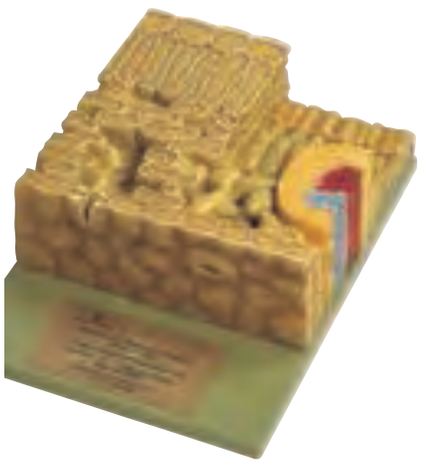


BoS 16/2 · Chloroplast of Higher Plant

Enlarged approximately 60000 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model shows the submicroscopic fine structure of a chloroplast on three vertical plane cross sections with the outer and inner chloroplast membrane, grain and stroma thylacoids, plastid stroma, starch inclusions and osmiophile globules. The grain thylacoid masses lie in front of the cross section planes and can be taken out together with the linking stroma thylacoids. Through the three cross sectional planes and the superimposed and removable parts, the model gives a depth of dimension as achieved when viewing cross sections through electron microscopes. Separable into 2 parts. On a stand with base and description. Height: 38 cm., width: 39 cm., depth: 26 cm., weight: 3.2 kg.

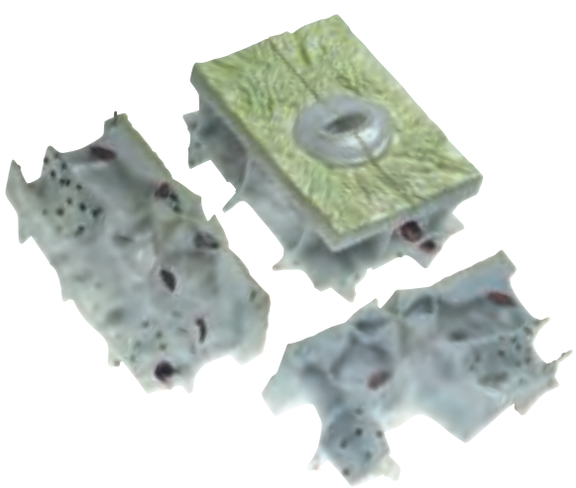
BoS 16 · PLANT CELL

Enlarged 3000 times, in SOMSO-Plast. After Prof. Dr. W. Jung. Showing the microscopic structure. In one piece. On a base, with explanatory note. Height: 7 cm., width: 32 cm., depth: 19 cm., weight: 700 g.



BoS 17 · DECIDUOUS LEAF

Enlarged 700 times, in SOMSO-Plast. After Prof. Dr. W. Weber. Transverse and longitudinal sections showing the microscopic structure. In one piece. On a base plate, with description. Height: 41 cm., width: 29 cm., depth: 12 cm., weight: 2.8 kg.



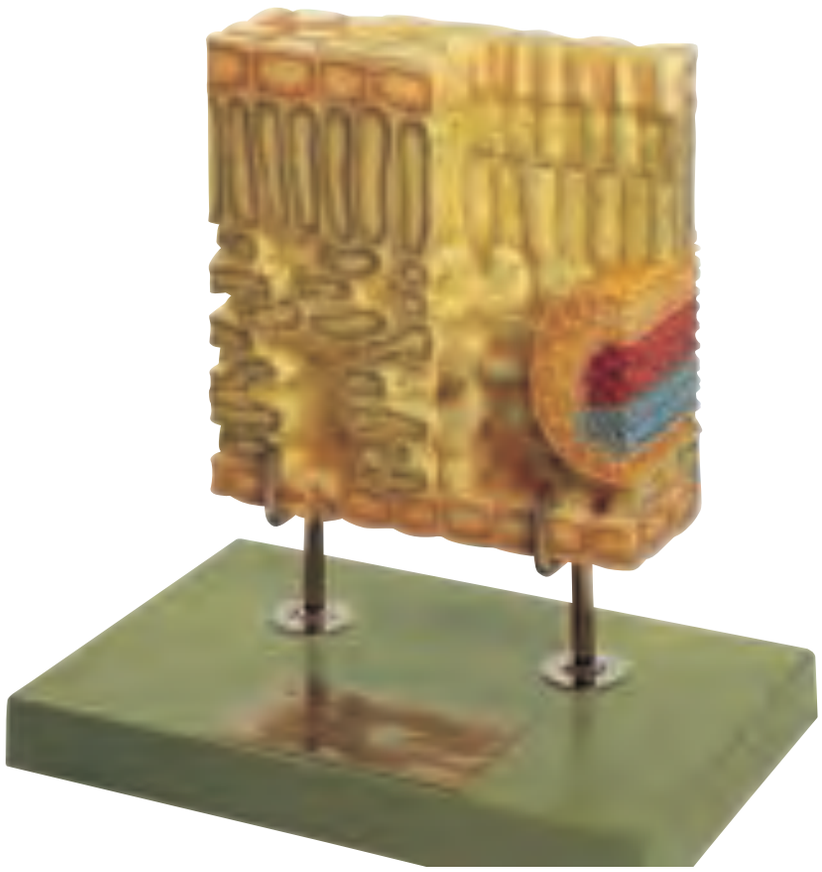
BoS 17/2 · STOMA FROM THE LOWER SURFACE OF A CHRISTMAS ROSE LEAF

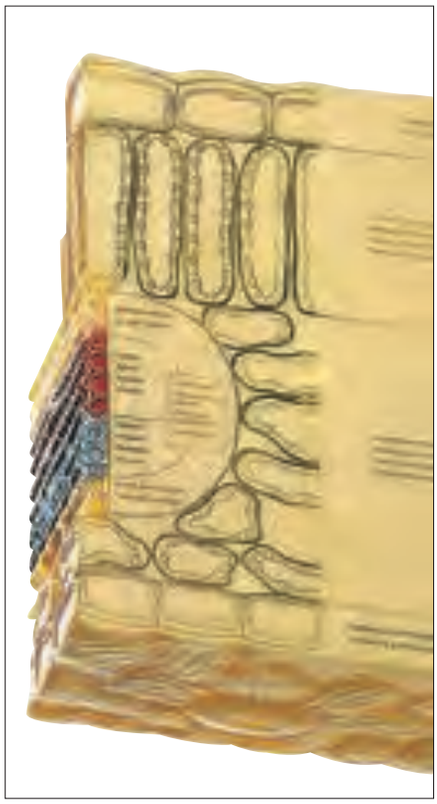
Helleborus niger, many times enlarged, in SOMSO-Plast. After Dr. Gerlach, Botanical Institute Erlangen. Shown are guard cells, subsiduary cells, respiratory cavity. One half of the model shows the stoma, the other the function which can be demonstrated symbolically. Separable into 2 parts. Height: 23 cm., width: 45 cm., depth: 37 cm., weight: 6.6 kg.

BoS 17/3 · MAIZE LEAF IN LONGITUDINAL AND CROSS SECTION

Zea mays, enlarged approx. 450 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model shows the special leaf structure of a C4 plant. The vascular bundles are enclosed by a sheath in ring form. The chloroplasts of the sheath correspond with the biochemical work appropriation in the case of photosynthesis and are clearly larger than the chloroplasts of the mesophyll cells. The vascular bundles are interlinked with each other by transversal anastomoses. In one piece, on a stand with base and description key. Height: 20 cm., width: 38.5 cm., depth: 12 cm., weight: 3 kg.

Plant Morphology



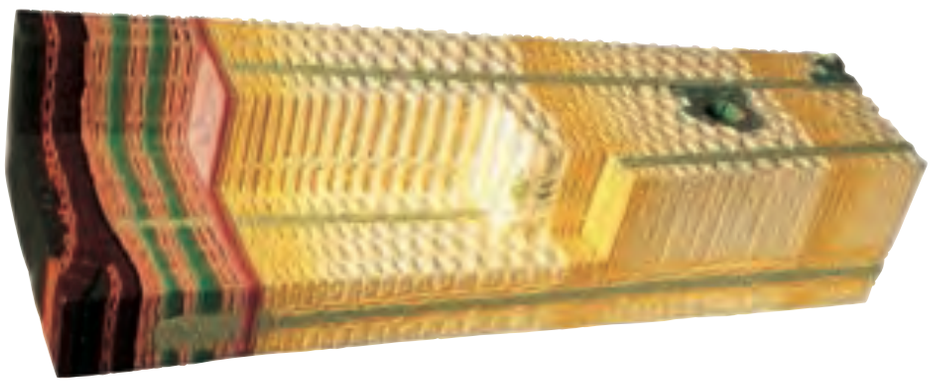


BoS 17/1 · Section through a Christmas Rose Leaf

Helleborus niger, enlarged 700 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model shows the upper epidermis with cuticula, the assimilatory parenchyma (differentiated in palisade and spongy tissue with vascular bundle) and the lower epidermis with stomata. In one piece, on a stand with base and description. Height: 40 cm., width: 39 cm., depth: 26 cm., weight: 3.4 kg.

BoS 18 · Model of a Wheat Grain as an Example of a Caryopsis

Triticum aestivum L., enlarged approx. 75 times, in SOMSO-Plast. After Prof. Dr. W. Jung. The model demonstrates a wheat grain divided longitudinally. The embryo can be removed. The cell layers of the fused fruit and seed shell are represented in cross section, longitudinal and surface section. The remainder of the pistil cushion with the »beard« is located at the tip, opposite to the basal germinal layer. Separable into 2 parts. On a stand with base and description. Height: 43 cm., width: 52 cm., depth: 26 cm., weight: 4.2 kg.

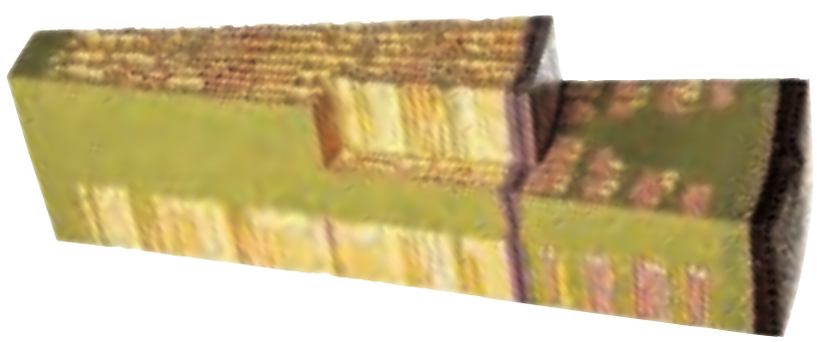


BoS 21 · Anatomical Structure of Pine Wood

Pinus silvestris, enlarged approx. 350 times, in SOMSO-Plast. After Prof. Dr. W. Jung. The model shows the anatomical structure of pine wood in various sections: transverse, radial longitudinal and tangential longitudinal through the cambium, early wood, late wood and bark. Showing all the elements of the wood structure. In one piece. On a base with description. Height: 15 cm., width: 65 cm., depth: 30 cm., weight: 5.2 kg.

BoS 19 · Fertilisation of the Angiosperms

Polygonum-type, enlarged 300 times, in SOMSO-Plast. After Prof. Dr. W. Jung. Longitudinal section showing ovary with germinating pollen grains and embryo sac, stamen with pollen in sagittal section. Showing in detail the microscopic structure. On a base with description key. In one piece. Height: 66 cm., width: 30 cm., depth: 14 cm., weight: 3.3 kg.



BoS 21/1 · Section through a Two Year Old Twig of the Lime Tree

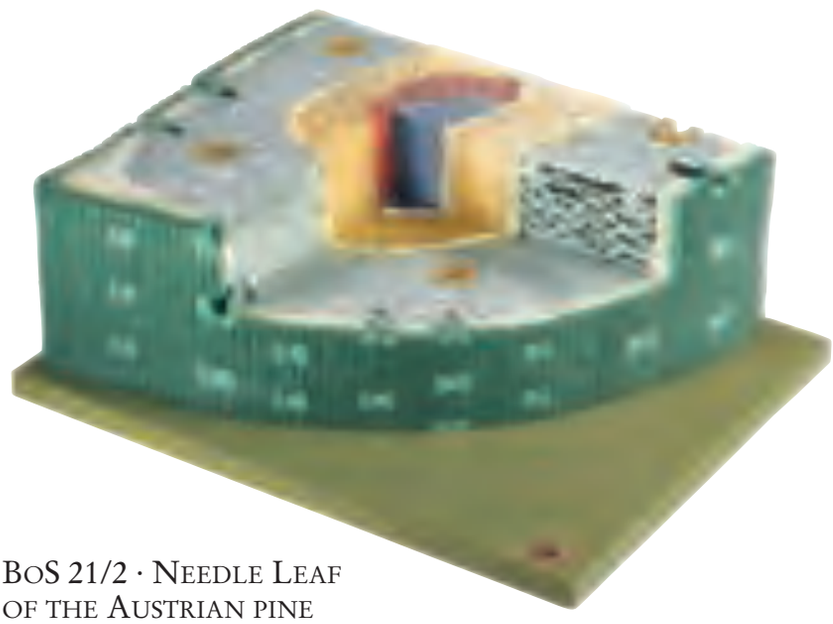
Tilia sp., enlarged 350 times, in SOMSO-Plast. After microscopic slides and drawings by Prof. Dr. W. Jung. Sections through the dispersed porous type of wood show all the elements of the wood structure (transverse, longitudinal radial and longitudinal tangential). In one piece. On a base with description key. Height: 18 cm., width: 65 cm., depth: 30 cm., weight: 4.2 kg.

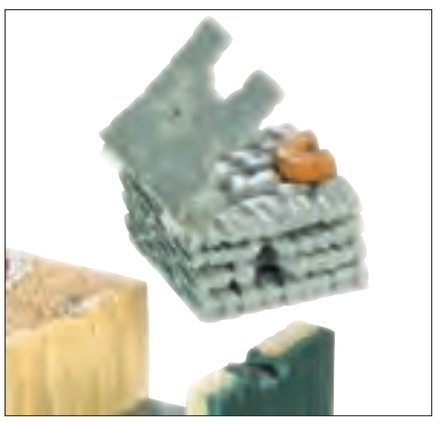
BoS 20/2 · Root Tip of a Monocotyledonous Plant in Longitudinal and Cross Section

Barley, Hordeum vulgare, enlarged approx. 200 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The root cap encloses the apical meristem. The tissues of the root body are formed by various initials: rhizodermis, root bark and central cylinder. In one piece, on a base, with description. Height: 37 cm., width: 18.5 cm., depth: 18.5 cm., weight: 1.5 kg.

Botany 2 - Plant models

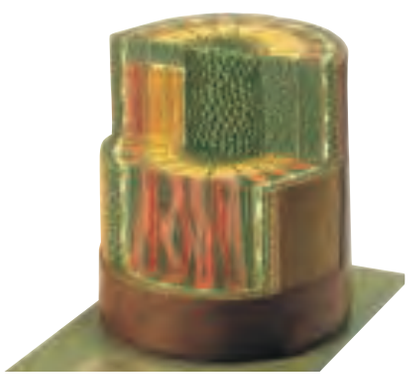
Plant Morphology





BoS 21/2 · Needle Leaf of the Austrian pine

Pinus nigra, Longitudinal and cross sections, magnified approx. 300 times. After Prof. Dr. W. Weber Separable into 3 parts. Height: 12 cm., width: 39.5 cm., depth: 28 cm., weight: 1.6 kg.

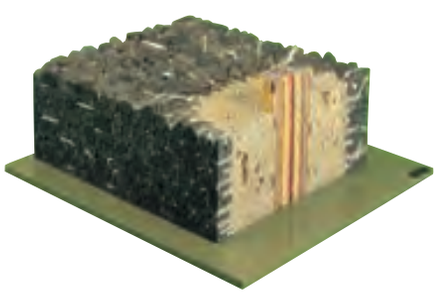


BoS 22/4 · Section through the Stem of a one Year Old Dicotyle Plant

Lime tree, Tilia cordata, somewhat simplified, enlarged approx. 125 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a base with description. Height: 33 cm., width: 37 cm., depth: 45 cm., weight: 3.5 kg.

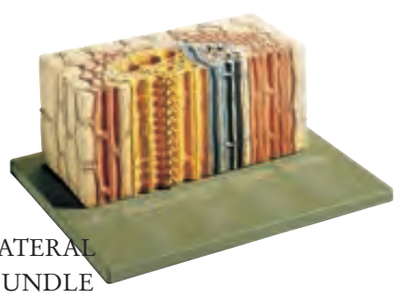
BoS 22/3 · Section through the Peripheral Part of a Monocotyle Stem

Maize, Zea mays, enlarged approx. 550 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. Mounted on a board with description. Height: 49 cm., width: 30 cm., depth: 12 cm., weight: 2.8 kg.



BoS 22/5 · Young Root of the Buttercup

Ranunculus acer, sectional model, enlarged approx. 300 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a base with description. Height: 22 cm., width: 46 cm., depth: 49 cm., weight: 5.8 kg.

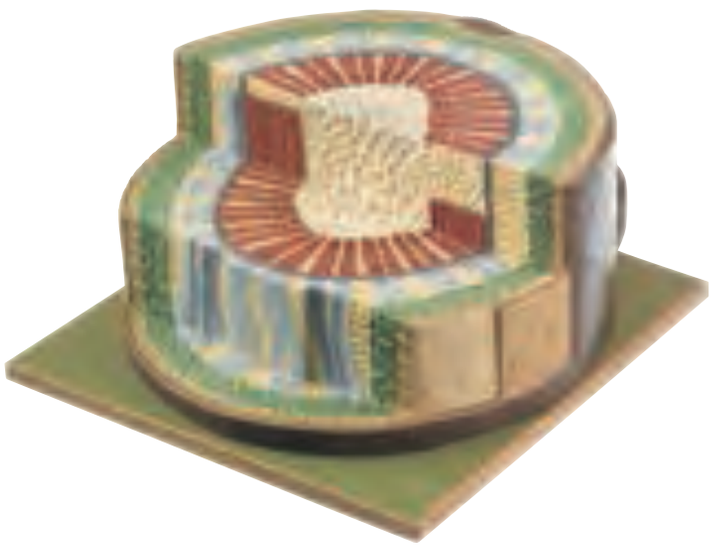


BoS 22 · Open Collateral Vascular Bundle of a Dicotyle Plant

Enlarged approx. 550 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a base with explanatory note. Height: 13 cm., width: 32 cm., depth: 26 cm., weight: 1.4 kg.

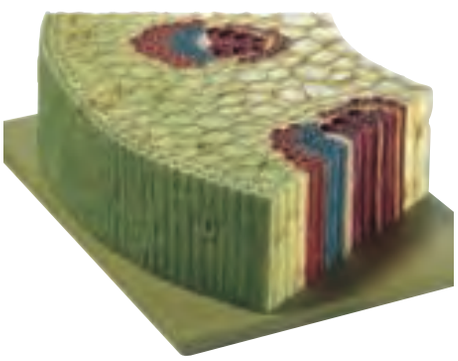
Bo 22/1 · Series of Models showing the typical indirect Plant Cell Division

Enlarged approx. 4500 times, after Prof. Dr. W. Jung. Shown in the cells of the root of the onion (Allium cepa). Models are made due to double-stained microscopic slides (nucleus stained by haematoxylin-Heidenhain and plasma by eosin). Comprises 6 individually mounted models. In one piece. On a stand with base. Weight of the series: 3.6 kg.



BoS 22/4-E · Section through the Stem of a one Year Old Dicotyle Plant

Lime tree, Tilia cordata, somewhat simplified, enlarged approx. 125 times, in SOMSO-Plast. After Prof. Dr. W. Jung and Prof. Dr. W. Weber. In one piece. On a base with description. Height: 20 cm., width: 37 cm., depth: 25 cm., weight: 2.8 kg.

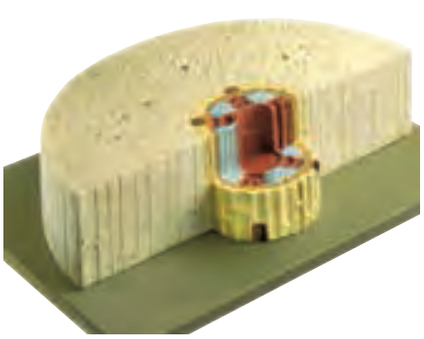


BoS 22/6 · Cross Section through the Peripheral Part of the Stem of the Creeping Buttercup

Ranunculus repens. After Prof. Dr. W. Weber. Enlarged approximately 450 times, in SOMSO-Plast. In one piece. On a base. Height: 49 cm., width: 30 cm., depth: 12 cm., weight: 2.8 kg.

BoS 22/5-E · Young Root of the Buttercup

Ranunculus acer, sectional model, enlarged approximately 300 times, in SOMSO-Plast. After Prof. Dr. W. Jung and re-worked by Prof. Dr. W. Weber. In one piece. On a base. Height: 10 cm., width: 40 cm., depth: 28 cm., weight: 2.2 kg.



BoS 22/7 · Root of Shallot Bulb

Allium ascalonicum, enlarged approx. 350 times, in SOMSO-Plast. After Prof. Dr. W. Weber. In one piece. On a base with description. Height: 10.5 cm., width: 39 cm., depth: 28 cm., weight: 1.8 kg.

SOMSO offers a comprehensive range of Fungi Models

SOMSO FUNGI MODELS ARE NATURAL CASTS - THE PAINTING IS STRIKINGLY REALISTIC. MOUNTED IN NATURAL SURROUNDINGS - CORRECTLY AND SCIENTIFICALLY LABELLED

LISTED ALPHABETICALLY:

A

BoS 44 Agaricus Arvensis
BoS 181 Agaricus Bitorquis
BoS 26 Agaricus Campester
BoS 224 Agaricus campester
Bo 182 Agaricus Hortensis
Bo 87 Agaricus macrosporus
Bo 162 Agaricus Placomyces
Bo 67 Agaricus Silvaticus
Bo 145 Agaricus Silvicola
Bo 64 Albatrellus confluens
BoS 78 Albatrellus Ovinus
Bo 90 Albatrellus pes-caprae
Bo 139 Aleuria Aurantia
Bo 222 Amanita Caesarea
BoS 66 Amanita Citrina
BoS 41 Amanita Muscaria
BoS 72 Amanita Pantherina
BoS 23 Amanita Phalloides
BoS 25 Amanita Phalloides
BoS 228 Amanita Regalis
BoS 40 Amanita Rubescens
Bo 117 Amanita spissa
Bo 190 Amanita strobiliformis
Bo 111 Amanita vaginata
BoS 207 Amanita Verna
BoS 208 Amanita Virosa
BoS 24 Armillariella Mellea
BoS 62 Armillariella Mellea
Bo 103 Aspropaxillus giganteus

B

Bo 89 Boletus appendiculatus
Bo 77 Boletus calopus
Bo 95 Boletus cavipes
BoS 31 Boletus Edulis
BoS 225 Boletus Edulis
Bo 84 Boletus Erythropus
BoS 141 Boletus Luridus
Bo 142 Boletus radicans
BoS 53 Boletus Satanas
BoS 166 Boletus Satanas, Huge Specimen

C

Bo 91 Calocera viscosa
Bo 160 Calocybe Gambosa
Bo 131 Calvatia excipuliformis
Bo 138 Camarophyllus pratensis
BoS 28 Cantharellus Cibarius
Bo 58 Cantharellus tubaeformis
Bo 97 Cantharellus xanthopus
Bo 196 Chalciporus piperatus
Bo 116 Chroogomphus rutilus
Bo 242 Clathrus Archeri
Bo 202 Clavaria rugosa
Bo 128 Clavariadelphus ligula
Bo 189 Clavariadelphus Pistillaris
Bo 193 Clavulina cinerea
Bo 217 Clavulina cristata
Bo 197 Clavulinopsis argillacea
Bo 191 Clitocybe geotropa
Bo 231 Clitocybe Odora
Bo 107 Clitocybe vibecina
Bo 98 Clitopilus prunulus
Bo 198 Collybia asema
Bo 186 Collybia fusipes
Bo 124 Collybia maculata
Bo 175 Coprinus alramentarius
BoS 130 Coprinus Comatus
Bo 115 Cortinarius armillatus
Bo 239 Cortinarius croceus
Bo 214 Cortinarius crocolitus
Bo 210 Cortinarius delibutus
Bo 238 Cortinarius limonius
Bo 119 Cortinarius mucosus
Bo 236 Cortinarius rubellus
Bo 235 Cortinarius splendens sp.
Bo 240 Cortinarius stillatitius
Bo 211 Cortinarius subfulgens
Bo 42 Cortinarius traganus
Bo 174 Cortinarius varius
BoS 59 Craterellus Cornucopiodes

D

Bo 102 Daedalea quercina
Bo 132 Dermocybe cinnamomealutea
BoS 226 Development of Hat Fungi

F

Bo 147 Fistulina hepatica
Bo 150 Flammulina velutipes

G

Bo 88 Ganoderma lucidum
Bo 170 Geastrum Quadrifidum
Bo 169 Geastrum Rufescens
Bo 149 Geastrum Sessile
Bo 37 Gomphus clavatus
Bo 164 Group of Big Yellow Boletus
Bo 136 Gymnopilus sapineus
BoS 153 Gyromitra Esculenta
Bo 155 Gyromitra Infula
Bo 134 Gyroporus Cyanescens
Bo 237 Gyroporus cyanescens

H

Bo 154 Helvella Crispa
Bo 65 Hydnum Repandum
Bo 232 Hydnellum ferrugineum
Bo 168 Hygrocybe conica
BoS 49 Hygrophoropsis Aurantiaca
Bo 206 Hygrophorus hypothejus
Bo 108 Hygrpcybe psittacina
Bo 177 Hypholoma Capnoides
Bo 75 Hypholoma Fasciculare
Bo 50 Hypholoma sublateritium

I

Bo 167 Inocybe fastigiata
BoS 156 Inocybe Patouillardi
BoS 159 Inocybe Patouillardi

K

BoS 230 Kefir-Mushroom
BoS 63 Kuehneromyces Mutabilis

L

Bo 80 Laccaria amethystina
BoS 51 Lactarius Deliciosus
Bo 143 Lactarius fuliginosus
Bo 126 Lactarius helvus
Bo 144 Lactarius mammosus
Bo 83 Lactarius necator
Bo 86 Lactarius piperatus
Bo 35 Lactarius rufus
Bo 188 Lactarius scrobiculatus
BoS 52 Lactarius Torminosus
Bo 32 Lactarius vellereus
Bo 120 Lactarius vietus FR.
Bo 73 Lactarius Volemus
Bo 113 Laetiporus sulphureus
Bo 229 Langermannia Gigantea
Bo 241 Lebista Gilva
BoS 29 Leccinum Aurantiacum
Bo 183 Leccinum Griseum
BoS 68 Leccinum Scabrum
Bo 123 Lentinellus cochleatus
Bo 121 Lentodiopsis dryina
Bo 172 Lepiota cristata
Bo 135 Lepista gilva
Bo 140 Lepista inversa
Bo 74 Lepista nebularis
BoS 99 Lepista Nuda
Bo 69 Leucogomphidius glutinosus
BoS 60 Lepista personata
BoS 57 Lycoperdon Perlatum
Bo 199 Lycoperdon pyriforme
Bo 173 Lyophyllum decastes
Bo 133 Lyophyllum fumosum

M

BoS 45 Macrolepiota Procera
BoS 46 Macrolepiota Procera
Bo 218 Macrolepiota procera
Bo 171 Macrolepiota rhacodes
Bo 179 Marasmius oreades
Bo 104 Megacollybia platyphylla
Bo 151 Morchella Conica
Bo 158 Morchella elata
BoS 152 Morchella Esculenta
Bo 219 Morchella vulgaris
Bo 203 Mycena pura

O

Bo 114 Otidea onotica
BoS 163 Oudemansiella Radicata

P

Bo 38 Paxillus Atrotomentosus
BoS 39 Paxillus Involutus
Bo 204 Peziza badia
Bo 157 Peziza vesiculosa
Bo 180 Phaeolus schweinitzii
BoS 61 Phallus Impudicus
Bo 81 Pholiota Squarrosa
Bo 82 Piptoporus betulinus
Bo 125 Pleurotus Ostreatus
Bo 101 Polyporus squamosus
Bo 184 Polyporus Umbellatus
Bo 185 Polyporus Umbellatus, Huge Specimen
Bo 146 Psathyrella hydrophila
Bo 187 Pseudohydnum Gelatinosum

R

Bo 165 Ramaria aurea
Bo 137 Ramaria flava
Bo 85 Ramaria formosa
Bo 76 Ramaria mairei
Bo 216 Ramaria stricta
Bo 215 Rhodophyllus nidorosus
Bo 209 Rhodophyllus sinuatus
BoS 55 Rozites Caperata
Bo 161 Russula Aeruginea
BoS 96 Russula Emetica
Bo 94 Russula Foetens
Bo 92 Russula Integra
Bo 127 Russula Nigricans
Bo 109 Russula ochroleuca
Bo 118 Russula olivacea
Bo 93 Russula Paludosa
Bo 30 Russula sardonia
Bo 112 Russula xerampelina
BoS 223 Rusulla Vesca

S

BoS 54 Sarcodon Imbricatus
BoS 56 Scleroderma Citrinum
Bo 122 Scleroderma citrinum
BoS 79 Sparassis Crispa
Bo 176 Stropharia aeruginosa
Bo 105 Strobilomyces floccopus
BoS 227 Structure of Hat Fungi (Large model)
Bo 70 Suillus Bovinus
Bo 212 Suillus Granulatus
Bo 213 Suillus Granulatus
BoS 71 Suillus Grevillei
BoS 36 Suillus Luteus
Bo 220 Suillus placidus
BoS 47 Suillus Variegatus

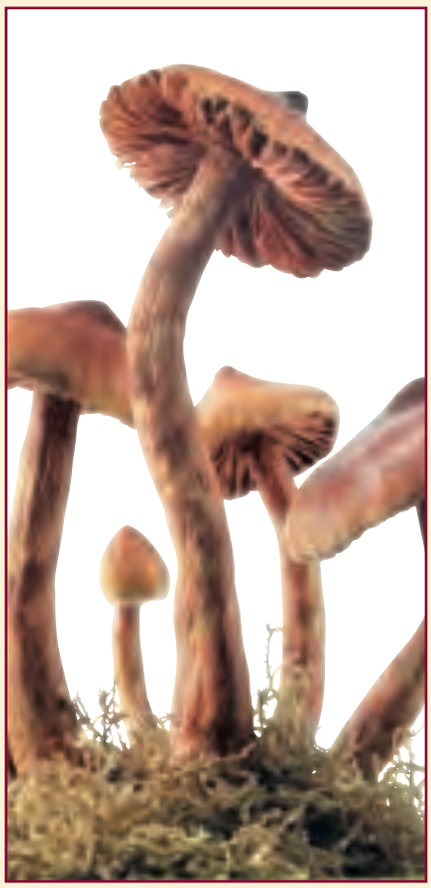
T

Bo 129 Tremiscus helvelloides
Bo 178 Tricholoma batschii
Bo 100 Tricholoma columbetta
BoS 48 Tricholoma Flavovirens
Bo 205 Tricholoma imbricatum
Bo 200 Tricholoma portentosum
Bo 201 Tricholoma portentosum
Bo 195 Tricholoma saponaceum
Bo 192 Tricholoma Sulphureum
Bo 33 Tricholoma terreum
Bo 148 Tricholoma vaccinum
Bo 27 Tricholomop sis rutilans
Bo 194 Tuber Aestivum
BoS 34 Tylopilus Felleus

X

BoS 43 Xerocomus Badius
Bo 110 Xerocomus Chrysenteron
Bo 221 Xerocomus parasiticus
Bo 106 Xerocomus Subtomentosus

SOMSO
MODELLE
SINCE 1876



Fungi Models

Made of SOMSO-Plast except for those models without 'S' after Bo e.g. Bo 37. The models are mounted on a base with real moss. A series of life-size models from over 200 models.

Botany

Botany 3 - Fungi Models

BoS 23 · Amanita Phalloides

(VAILL.) SECR. Group showing the six most important stages of development, mounted on a base. Deadly poisonous and extremely dangerous!

BoS 24 · Armillariella Mellea

(VAHL ex FR.) KARST. Group showing 6 different stages of development, mounted on a base. Edible raw, but poisonous when uncooked!

BoS 25 · Amanita Phalloides

(VAILL.) SECR. 3 stages. Deadly poisonous and extremely dangerous!

BoS 26 · Agaricus Campester

(L.) FR. Edible.

Bo 27 · Tricholomop sis rutilans

(SCHFF. ex FR.) SING., Edible.

BoS 28 · Cantharellus Cibarius

FR. Edible.

BoS 29 · Leccinum Aurantiacum

(BULL. ex ST. AM.) S.F. GRAY. Edible.

Bo 30 · Russula sardonia

FR. em ROM., poisonous

BoS 31 · Boletus Edulis

BULL. ex FR. Edible.

Bo 32 · Lactarius vellereus

Bo 33 · Tricholoma terreum

(SCHFF. ex FR.) KUMM., edible.

BoS 34 · Tylopilus Felleus

(BULL. ex. FR.) P. KARST. Indigestible.

Bo 35 · Lactarius rufus

(SCOP. ex FR.) FR., edible.

BoS 36 · Suillus Luteus

(L. ex FR.) S.F. GRAY. Edible.

Bo 37 · Gomphus clavatus

(PERS. ex FR.) S.F. GRAY, edible.

Bo 38 · Paxillus Atrotomentosus

(BATSCH) FR. of inferior quality.

BoS 39 · Paxillus Involutus

(BATSCH) FR. Poisonous.

BoS 40 · Amanita Rubescens

(PERS. ex FR.) S.F. GRAY. Edible.

BoS 41 · Amanita Muscaria

(L. ex FR.) HOOKER. Poisonous.

Bo 42 · Cortinarius traganus

FR., indigestible.

BoS 43 ·
Xerocomus Badius
(FR.) KöHN. ex GILB.
Edible.

BoS 44 ·
Agaricus Arvensis
SCHFF. ex FR. Edible.

BoS 45 ·
Macrolepiota
Procera
(SCOP. ex FR.) SING. Edible.

BoS 46 ·
Macrolepiota
Procera
(SCOP. ex FR.) SING. Top edible. (Especially big mushroom).

BoS 47 ·
Suillus Variegatus
(SWARTZ ex FR.)
O. KTZE. Edible.

BoS 48 ·
Tricholoma
Flavovirens
(PERS. ex FR.) LUND et
NANNF. Edible.

BoS 49 ·
Hygrophoropsis
Aurantiaca
(WULF. ex FR.) R. MRE.
Edible, but of inferior
quality.

Bo 50 ·
Hypholoma
sublateritium
(FR.) QUÉL., indigestible.

BoS 51 ·
Lactarius
deliciosus
FR. Edible.

BoS 52 ·
Lactarius
torminosus
(SCHFF. ex FR.) S.F.
GRAY. Poisonous.

BoS 53 ·
Boletus satanas
LENZ. Poisonous.

BoS 54 ·
Sarcodon imbricatus
(L. ex FR.) P. KARST. Edible,
when young.

BoS 55 ·
Rozites caperata
(PERS. ex FR.) KARST.
Edible.

BoS 56 ·
Scleroderma
citrinum
PERS. Poisonous.

BoS 57 ·
Lycoperdon
perlatum
PERS. ex PERS. Edible,
when young.

Bo 58 ·
Cantharellus
tubaeformis
FR., edible.

BoS 59 ·
Craterellus
cornucopioides
(L.) ex PERS. Edible.

BoS 60 ·
Lepista personata
(FR. es FR.) CKE. Edible.

BoS 61 ·
Lepista personata
(FR. es FR.) CKE. Edible.

BoS 62 ·
Armillariella
mellea
(VAHL ex FR.) KARST.
Edible.

Botany 3 - Fungi Models

BoS 63 · Kuehneromyces mutabilis
(SCHFF. ex FR.) SING. et SM. Edible.

Bo 64 · Albatrellus confluens
(ALB. et SCHW. ex FR.) KOTL. et Pouz., young edible.

Bo 65 · Hydnum repandum
L. ex FR. Edible.

BoS 66 · Amanita citrina
(SCHFF.) S.F. GRAY. Poisonous.

Bo 67 · Agaricus silvaticus
SCHFF. ex SECR. Edible.

BoS 68 · Leccinum scabrum
(BULL. ex FR.) S.F. GRAY. Edible.

Bo 69 · Leucogomphidius glutinosus
(SCHFF. ex FR.) KOTL. et POUZ,. Edible

Bo 70 · Suillus bovinus
(L. ex FR.) O. KTZE. Edible (tough).

BoS 71 · Suillus grevillei
(KLOTZSCH) SING. Edible.

BoS 72 · Amanita pantherina
(DC. ex FR.) SECR. Very poisonous.

Bo 73 · Lactarius volemus
FR. Edible.

Bo 74 · Lepista nebularis
(FR.) HARMAJA., Edible in small quantities

Bo 75 · Hypholoma fasciculare
(HUDS. ex FR.) KUMM. Poisonous.

Bo 76 · Ramaria mairei
DONK., indigestible.

Bo 77 · Boletus calopus
FR., indigestible., poisonous.

BoS 78 · Albatrellus ovinus
(SCHFF. ex FR.) KOTL. et POUZ. Edible.

BoS 79 · Sparassis crispa
(WULF.) ex FR. Edible.

Bo 80 · Laccaria amethystina
(BOLT. ex HOOKER) MURR., edible

Bo 81 · Pholiota squarrosa
(PERS. ex FR.) KUMM. Indigestible.

Bo 82 · Piptoporus betulinus
(BULL. ex FR.) KARST., Indigestible.

Bo 83 ·
Lactarius necator
(BULL. em. PERS. ex FR.) KARST., Indigestible.

Bo 84 ·
Boletus erythropus
(FR. ex FR.) PERS. Edible.

Bo 85 · Ramaria formosa
(PERS. ex FR.) QUÉL., poisonous.

Bo 86 ·
Lactarius piperatus
(L. ex FR.)S.F. GRAY, edible after special treatment.

Bo 87 ·
Agaricus macrosporus
(MOLL. et SCHFF.) PILÁT, edible.

Bo 88 · Ganoderma lucidum
(CURT. ex FR.) KARST, not edible.

Bo 89 · Boletus appendiculatus
(SCHFF. ex FR.) SECR., edible.

Bo 90 ·
Albatrellus pes-caprae
(PERS. ex FR.) POUZ., edible.

Bo 91 · Calocera viscosa
(PERS. ex FR.) FR., not edible.

Bo 92 · Russula integra
L. ex FR. Good food mushroom.

Bo 93 ·
Russula paludosa
BRITZ. Good food mushroom.

Bo 94 ·
Russula foetens
FR. Indigestible.

Bo 95 ·
Boletus cavipes
(OPAT.) KALCHBR., edible.

BoS 96 ·
Russula emetica
FR. Poisonous.

Bo 97 ·
Cantharellus xanthopus
(PERS.) DUBY., edible.

Bo 98 ·
Clitopilus prunulus
(SCOP. ex FR.) KUMM., edible.

BoS 99 ·
Lepista nuda
(BULL. ex FR.) CKE. Fairly useful for cooking.

Bo 100 · Tricholoma columbetta
(FR.) KUMM., edible.

Bo 101 ·
Polyporus squamosus
HUDS. ex Fr., edible when very young.

Bo 102 ·
Daedalea quercina
L. ex FR., indigestible.

Botany 3 - Fungi Models

Bo 103 · Aspropaxillus giganteus
(SOW. ex FR.) KÜHN. et MRE., edible.

Bo 104 · Megacollybia platyphylla
(PERS. ex FR.) KOTL. et POUZ., top edible.

Bo 105 · Strobilomyces floccopus
(VAHL ex FR.) KARST., edible, but not very tasty.

Bo 106 · Xerocomus subtomentosus
(L. ex FR.) QUÉL. Edible.

Bo 107 · Clitocybe vibecina
(FR.) QUÉL.

Bo 108 · Hygrpcybe psittacina
(SCHFF. ex FR.) WÜNSCHE. Edible.

Bo 109 · Russula ochroleuca
(PERS. ex SECR.) FR., young edible.

Bo 110 · Xerocomus chrysenteron
(BULL. ex ST.-AM.) QUÉL. Edible.

Bo 111 · Amanita vaginata
(BULL. ex FR.) VITT., Edible.

Bo 112 · Russula xerampelina
(SCHFF. ex SECR.), Edible.

Bo 113 · Laetiporus sulphureus
(BULL. ex FR.) MURR., young edible.

Bo 114 · Otidea onotica
(PERS. ex S.F. GRAY) FUCK, edible.

Bo 115 · Cortinarius armillatus
(FR. ex FR.) FR., edible.

Bo 116 · Chroogomphus rutilus
(SCHFF. ex FR.) O.K. MILLER., edible.

Bo 117 · Amanita spissa
(FR.) KUMM.

Bo 118 · Russula olivacea
(SCHFF. ex SECR.) FR., edible.

Bo 119 · Cortinarius mucosus
(BULL. ex FR.) KICKX., edible.

Bo 120 · Lactarius vietus
FR., not edible.

Bo 121 · Lentodiopsis dryina
(PERS. ex FR.) KREISEL, young edible.

Bo 122 · Scleroderma citrinum
PERS., poisonous.

Bo 123 · Lentinellus cochleatus
(PERS. ex FR.) KARST., young edible.

Bo 124 · Collybia maculata
(A. et S. ex FR.) KUMM., indigestible.

Bo 125 · Pleurotus ostreatus
(JACO. ex FR.) KUMM. Edible.

Bo 126 · Lactarius helvus
FR., poisonous!

Bo 127 · Russula nigricans
(BULL.) FR. Edible.

Bo 128 · Clavariadelphus ligula
SCHFF. ex FR., edible, but not very tasty.

Bo 129 · Tremiscus helvelloides
(DC. ex FR.) DONK, edible.

BoS 130 · Coprinus comatus
(MöLL. ex FR.) S. F. GRAY. Edible when young.

Bo 131· Calvatia excipuliformis
(PERS.) PERD., edible.

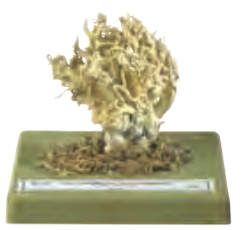
Bo 132 · Dermocybe cinnamomealutea
(ORTON) MOS., indigestible.

Bo 133 · Lyophyllum fumosum
(PERS. ex FR.) ORTON., edible.

Bo 134 · Gyroporus cyanescens
(BULL. ex FR.) QUÉL. Edible.

Bo 135 · Lepista gilva
(PERS. ex FR.) ROZE., edible when young.

Bo 136 · Gymnopilus sapineus
(FR.) MRE., indigestible.



Bo 137 · Ramaria flava
(SCHFF. ex FR.) QUÉL., edible.

Bo 138 · Camarophyllus pratensis
(PERS. ex FR.) KUMM, edible.

Bo 139 · Aleuria aurantia
(PERS. ex FR.) FUCK. Edible.

Bo 140 · Lepista inversa
(SCOP. ex FR.) PAT., edible.

BoS 141 · Boletus luridus
SCHFF. ex FR. Partly edible, poisonous when raw.

Bo 142 · Boletus radicans
PERS. ex FR., indigestible, but not poisonous.

Botany 3 - Fungi Models

Bo 143 · Lactarius fuliginosus
FR., edible.

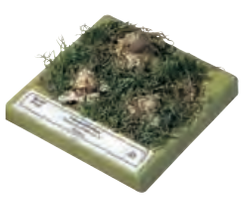
Bo 144 · Lactarius mammosus
FR., edible.

Bo 145 · Agaricus silvicola
SCHFF. Edible.

Bo 146 · Psathyrella hydrophila
(BULL ex MÉRAT) MRE., edible.

Bo 147 · Fistulina hepatica
SCHFF. ex FR., edible when young.

Bo 148 · Tricholoma vaccinum
(PERS. ex FR.) KUMM.



Bo 149 · Geastrum sessile
(SOW.) POUZ. Indigestible.

Bo 150 · Flammulina velutipes
(CURT. ex FR.) KARST., edible.

Bo 151 · Morchella conica
PERS. ex FR. Edible.

BoS 152 · Morchella esculenta
PERS. ex ST.AMANS. Edible.

BoS 153 · Gyromitra esculenta
(PERS.) FR. Poisonous.

Bo 154 · Helvella crispa
(SCOP.) ex FR. Edible.

Bo 155 · Gyromitra infula
(SCHFF. ex FR.) QUÉL. Edible.

Bo 156 · Inocybe patouillardi
BRES. Very poisonous!

Bo 157 · Peziza vesiculosa
BULL. ex ST.-AM., edible.

Bo 158 · Morchella elata
Edible.

BoS 159 · Inocybe patouillardi
BRES., as BoS 156, but as a group with the 6 most important stages of development. Very poisonous.

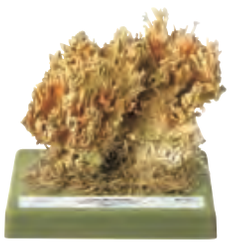
Bo 160 · Calocybe gambosa
(FR.) DONK. Edible.

Bo 161 · Russula aerugine
LINDBL. Good food mushroom.

Bo 162 · Agaricus placomyces
PECK var. meleagris J. SCHFF. Poisonous.

BoS 163 · Oudemansiella radicata
(RELHAN ex FR.) SING. Edible.

Bo 164 · Group of Big yellow Boletus
Top diameter 17 cm., Boletus edulis BULL. ex FR. Edible.



Bo 165 · Ramaria aurea
(FR.) QUÉL., edible.

BoS 166 · Boletus satanas, Huge Specimen
Top diameter 20 cm., LENZ. Poisonous.

Bo 167 · Inocybe fastigiata
(SCHFF. ex FR.) QUÉL., poisonous.

Bo 168 · Hygrocybe conica
(SCOP. ex FR.) KUMM., edible.

Bo 169 · Geastrum rufescens
PERS. Indigestible.

Bo 170 · Geastrum quadrifidum
PERS. ex PERS. Indigestible.

Bo 171 · Macrolepiota rhacodes
(VITT.) SING., edible.

Bo 172 · Lepiota cristata
(A. et S. ex FR.) KUMM., Indigestible.

Bo 173 · Lyophyllum decastes
(FR.) SING., edible.

Bo 174 · Cortinarius varius
(SCHFF. ex FR.) FR., edible.

Bo 175 · Coprinus alramentarius
(BULL. ex FR.) FR., edible when young.

Bo 176 · Stropharia aeruginosa
(CURT. ex FR.) QUÉL., edible.

Bo 177 · Hypholoma capnoides
(FR. ex FR.) KUMM. Edible.

Bo 178 · Tricholoma batschii
GULDEN., poisonous.

Bo 179 · Marasmius oreades
(BOLT. ex FR.) FR., edible.

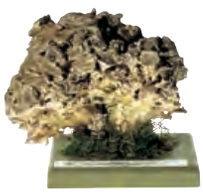
Bo 180 · Phaeolus schweinitzii
(FR.) PAT., Indigestible.

BoS 181 · Agaricus bitorquis
(QUëL) SACC. Edible.

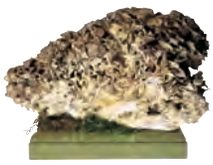
Bo 182 · Agaricus hortensis
(CKE.) PILAT. Edible.

Botany 3 - Fungi Models

Bo 183 · Leccinum griseum
(QUéL.) SING. Edible.



Bo 184 · Polyporus umbellatus
(PERS. ex FR.) Edible when young.



Bo 185 · Polyporus umbellatus, huge Specimen
(PERS. ex FR.) Edible when young.

Bo 186 · Collybia fusipes
(BULL. ex FR.) QUÉL.

Bo 187 · Pseudohydnum gelatinosum
(SCOP. ex FR.) P. KARST. Edible.

Bo 188 · Lactarius scrobiculatus
(SCOP. ex FR.) FR. Indigestible, poisonous.

Bo 189 · Clavariadelphus pistillaris
(FR.) DONK. Not nice.

Bo 190 · Amanita strobiliformis
(PAULET ex VITT.) BERT. Edible.

Bo 191 · Clitocybe geotropa
(BULL. ex ST.- AM.) QUÉL. Edible when young.

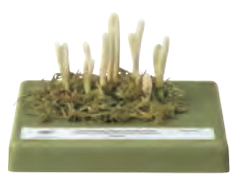
Bo 192 · Tricholoma sulphureum
(BULL. ex FR.) KUMM. Indigestible, lightly poisonous.

Bo 193 · Clavulina cinerea
(BULL.) SCHROET., edible.

Bo 194 · Tuber aestivum
(VITT.) Edible.

Bo 195 · Tricholoma saponaceum
(FR.) KUMM., indigestible.

Bo 196 · Chalciporus piperatus
(BULL. ex FR.) BAT., edible but in small portions.



Bo 197 · Clavulinopsis argillacea
PERS. ex FR., edible.

Bo 198 · Collybia asema
(FR.) KUMM, edible but not very tasty.

Bo 199 · Lycoperdon pyriforme
SCHFF. ex PERS., edible when young.

Bo 200 · Tricholoma portentosum
(FR.) QUÉL., edible.

Bo 201 · Polyporus brumalis
PERS. ex FR., indigestible.

Bo 202 · Clavaria rugosa
BULL. ex FR., edible.

Bo 203 · Mycena pura
(PERS. ex FR.) KUMM., edible.

Bo 204 · Peziza badia
PERS. ex MÉRAT., edible.

Bo 205 · Tricholoma imbricatum
(FR. ex FR.) KUMM.

Bo 206 · Hygrophorus hypothejus
(FR. ex FR.) FR., edible.

BoS 207 · Amanita verna
(BULL.) PERS. Deadly poisonous.

BoS 208 · Amanita virosa
LAM. ex SECR. Deadly poisonous.

Bo 209 · Rhodophyllus sinuatus
(BULL. ex FR.) SING., poisonous.

Bo 210 · Cortinarius delibutus
FR., edible.

Bo 211 · Cortinarius subfulgens
ORTON., E edible.

Bo 212 · Suillus granulatus
(L. ex FR.) O. KTZE. Edible.

Bo 213 · Suillus aeruginascens
(SECR.) SNELL. Edible.

Bo 214 · Cortinarius crocolitus
QUÉL., according to Moser edible.

Bo 215 · Rhodophyllus nidorosus
(FR.) QUÉL., lightly poisonous.

Bo 216 · Ramaria stricta
(PERS. ex FR.) QUÉL., indigestible.

Bo 217 · Clavulina cristata
(HOLMSK. ex FR.) SCHROET., edible.

Bo 218 · Macrolepiota procera
(SCOP. ex FR.) SING., edible.

Bo 219 · Morchella vulgaris
PERS. Edible.

Bo 220 · Suillus placidus
(BON.) SING., edible.

Bo 221 · Xerocomus parasiticus
(BULL. ex FR.) QUÉL., edible.

Bo 222 · Amanita caesarea
(SCOP. ex FR.) PERS. ex SCHW. Edible.

Botany 3 - Fungi Models

BoS 223 · Russula vesca
FR. Edible.

BoS 224 · Agaricus campester
(L.) FR. An extremely large mushroom. Edible.

BoS 225 · Boletus edulis
BULL. ex FR. Group with six different stages of development. Edible.

BoS 226 · Development of Hat Fungi
natural size, in SOMSO-Plast. Submitted to Dr. rer. nat. A. Meixner, graduate chemist and fungi expert, Stuttgart. The mycelium, primordial and egg stages, young and mature fruiting bodies of the following species are shown: 1. Amanita phalloides; 2. Xerocomus badius; 3. Common mushroom; 4. Hydnum imbricatum; 5. Oudemansiella radicata. Can be separated into 6 parts. H.: 37 cm., w.: 47 cm., d.: 15 cm., w.: 2 kg.

BoS 228 · Amanita regalis
(FR.) Poisonous.

Bo 229 · Langermannia gigantea
(BATSCH ex PERS.) ROSTK. Edible when young.

BoS 230 · Kefir-Mushroom
Edible.

BoS 227 · Structure of Hat Fungi
Large model, in SOMSO-Plast. Submitted to Dr. rer. nat. Axel Meixner, graduate chemist and fungi expert, Stuttgart. The morphological features of all the major varieties of types of hat fungi can be seen on this model which comes in 4 sections. The juxtaposition of the various features on one and the same model not only provides assistance in learning how to identify the different species of mushrooms but also enables direct comparisons to be made between edible mushrooms, for example, and similar-looking poisonous ones. On a base. H.: 45 cm., w.: 40 cm., d.: 32 cm., (cap diameter 35 cm.), w.: 5.4 kg.

Bo 231 · Clitocybe odora
(BULL. ex FR.) KUMM. Edible.

Bo 232 · Hydnellum ferrugineum
(Fr.: Fr.) Karsten. Not edible.

Bo 235 · Cortinarius splendens sp.

Bo 236 · Cortinarius rubellus

Bo 237 · Gyroporus cyanescens

Bo 238 · Cortinarius limonius

Bo 239 · Cortinarius croceus

Bo 240 · Cortinarius stillatitius

Bo 241 · Lebista Gilva

Bo 242 · Clathrus Archeri
Group.

Bo 243 · Clathrus Archeri

SOMSO
MODELLE
SINCE 1876

SOMSO Fruit Models

Lifelike and hand painted models which are colourfast and resistant to sunlight.

Fruit Models

SOMSO has extended its historical collection of fruits to include scattered variations.

For 130 years we have been making anatomical, zoological and botanical models in our workshops in Coburg and Sonneberg.

"Nature is Our Model" as a basic principle is the deciding factor for true-to-life reproductions from nature in the form of models. We would be only too pleased to send you further information on our collection of species fruit.

03/10 · Cox Orange King Fruit

08/10 · Gellerts Butterbirne

03/25 · King of the Pippins

03/12 · Freiherr von Berlepsch

03/14 · Blenheim Orange

03/13 · Geheimrat Doktor Oldenburg

03/15 · Gravenstein

03/17 · Jakob Fischer

03/22 · Rote Stern Reinette

03/18 · Jonathan

03/23 · Belle de Boskoop

03/20 · Rheinischer Winterrambur

03/24 · Beauty of Wilts.

03/21 · Red Belle de Boskoop

Other historic varieties (not illustrated):

03/36 Golden Delicious

03/37 Manga

03/38 Granny Smith

03/40 Danziger Kantapfel

03/41 Idared

08/12 Abate Fetel

03/11 · Cox Orange

03/26 · White Winter Calville

03/17 · Jakob Fischer

03/27 · White Transparent

03/28 · Golden Noble

03/19 · Kaiser Wilhelm

03/29 · Ontario

03/30 · Baumann's Reinette

03/34 · Zabergau Renette

03/31 · Landsberger Reinette

03/35 · Adersleber Calville

03/32 · Reinette du Canada

08/11 · Köstliche v. Charneau

03/33 · Harbert's Reinette

The Somso history at a glance

17th July 1876: Foundation of the company in Sonneberg, Thuringia by Marcus Sommer Sr. born 14th November 1845.

17.07.1876

In Sonneberg, Marcus Sommer begins the production of anatomical teaching models made of papier maché.

1876

Around 1880: A comprehensive collection of fruit models produced in agreement with the German "Pomologenverein" (fruit experts).

1880

Continuation of the fungi model collection of H. Arnoldi, Gotha, from 1871, and the development of a collection of plastic fungi models - with more than 240 models today.

1890

1st January 1895: Fritz Sommer, born 27th December 1879, inherits his father's business.

1895

Production of an extensive range of heat resistant moulages in co-operation with University Institutes in Jena.

1900

Scientific co-operation and consultancy begins with Paul Hagedorn, Principal Preparator at the Anatomical Institute in Leipzig.

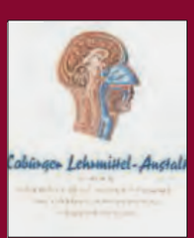
1911

Good business relations have been in existence with Messrs. **Adam,Rouilly,** since 1927. Marcus Sommer Jr. was able to win over this customer in England.

1927

15th April 1929: Modeller, Max Doehler, born 13th June 1905 in Schalkau, enters the company. During his 52 years with the company, the range of anatomical, zoological and botanical models is extended and improved

1929

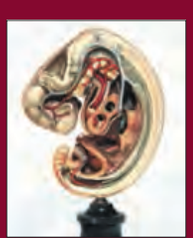


1st April 1930: Acquisition of Coburger Lehrmittel-anstalt (The Coburg Teaching Media Institute) by Max Albert Sommer, Neuses, Coburg

1930

After the death of her husband Fritz Sommer, Ida Sommer managed the company as partner until the confiscation in 1952.

1934



12th October 1936: Purchase and take-over of the Dr. h. c. Friedrich Ziegler Studio for Scientific Plastics, Freiburg in Breisgau

1936

From November 1936, production and distribution of the thoroughbred animal statuette collection by Max Landsberg and C.A. Brasch.

1936

1st January 1937: Marcus Sommer Jr. born on 25th February 1907, became partner and managed the company until he died on 26th December 1986.

1937

Willy Schaerf enters the company as authorised signatory and is responsible for the progress of the company until 1971.

1947

21st June 1948: After the war, production of the original SOMSO-MODELLE starts in Coburg.

1948

18th December 1952: Take-over of Messrs. Marcus Sommer, Sonneberg, Thuringia. The property is confiscated and it becomes a state-owned company.

1952

Modeller Edgar Froeber, born 6th October 1919, enters the company. During his 40 years with the company he carried out the reorganisation in Coburg creating a large number of botanical and zoological models.

1952

SINCE 1876

25th March 1954: Re-introduction of the old company name Marcus Sommer SOMSO-Werkstaetten, Coburg

1954

1st August 1954: Richard Schott enters the company, who had authorised signatory since 20th March 1990.

1954

Scientific co-operation begins with Studiendirektor Christian Gross, Dillingen, with zoological models and the development of a new series of true to life animal sculptures.

1958

17th November 1960: The start of the first stage of construction of the premises in Coburg, Neuses

1960

1st September 1963: Hans Sommer, born 18th December 1944, enters the company.

1963

Scientific co-operation begins with the Zoologische Staatssammlung, Munich.

1966

Co-operation begins with Dr. Eberhard Schicha in the development of insect models.

1966

Biology modelmaker Gerhard Weber (born on 10th November 1919), provided excellent services over 33 years as Head of the Painting Department and modeller.

1967

The entire Sommer family, Marcus and Lotte Sommer with their children Traute and Hans Sommer, working at the company.

1968

8th September 1971: Foundation of the sister company, CLA - Coburger Lehrmittelanstalt. Dietrich Krauß entered on 1st August 1955 the company and built succesfully the range of medicals phantoms. Together with Rudolf Galle, who entered on 1st August 1968.

1971

The scientific consultancy begins with Professor Dr. Dr. Johannes W. Rohen, Anatomical Institute of the University of Erlangen for anatomical models and the development of a new series of dismantled models of the skull and the brain

1974

Scientific co-operation begins with the Anthropological Institute, University of Goettingen

1974

Co-operation begins with Professor Dr. Wilhelm Weber, Tuebingen in the development of a large number of botanical models.

1980

Since 1988 SOMSO MODELLE have been advertised under the slogan "Nature is our Model" (photo: Rudi Schuhmann, an exceptional painter for over 36 years).

1988

18th December 1992: Re-assignment of the parent company in Sonneberg.

1992

Scientific co-operation commences with Professor Dr. Wolfgang Schmidt and Dr. Werner Schneller, Anatomical Institute, University of Leipzig.

1993

April to November 1999: Special exhibition in the Deutsches Museum, Munich.

1999

17th July 2001: 125th Anniversary of SOMSO-MODELLE. Opening of the SOMSO MUSEUM at the parent company in Sonneberg, Thuringia

17.07.2001

130 Years SOMSO MODELLE

17.07.2006

The company has been changed into a German Limited Liability Registered Company. With this change, the fifth generation are now partners and the tradition of familiy business, established in 1876, is able to continue.

01.01.2007

MARCUS SOMMER SOMSO MODELLE GMBH

Index of the complete SOMSO ANATOMY range.
Models listed without a page number are available on request

Index of the complete SOMSO ANATOMY range. Models listed without a page number are available on request

Index of the complete SOMSO ZOOLOGY and BOTANY range.
Models listed without a page number are available on request

BOTANY

Index of the complete SOMSO FUNGI MODELS and FRUIT MODELS range. Models listed without a page number are available on request

Index of the complete SOMSO FUNGI MODELS and FRUIT MODELS range. Models listed without a page number are available on request

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SOMSO
MODELLE
SINCE 1876

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