

SOMSO MODELLE SINCE 1876

ZOOLOGY + BOTANY CATALOGUE A 75/2+3

NATURE IS OUR MODEL



SOMSO MODELLE SINCE 1876

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.

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

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.

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 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!

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 stateof-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.

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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

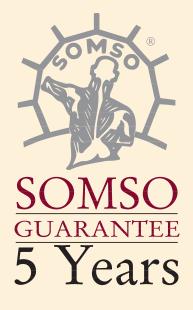
The production of SOMSO Modelle requires great attention to detail in both specialised manufacturing techniques and basic handwork. Each model is individually hand finished by skilled craftsmen.

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.



EACH AND EVERY MODEL IN THE RANGE DEMONSTRATES SOMSO'S COMMIT-MENT 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 mark of quality

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.



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



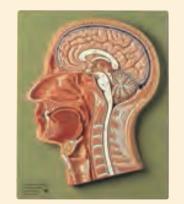
Model on base, removable



Model on base and removable from stand



Model on base



Model on board



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 offer a comprehensive range of models for veterinary medicine

THE SOMSO ZOOLOGY MODELS ARE MAINLY SHOWN ACCORDING TO THEIR CLASSIFICATION

<u>Subdivision for</u> SOMSO ZOOLOGICAL MODELS:

VERTEBRATES

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

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.

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.



<u>Thoroughbred</u> ANIMAL STATUETTES

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



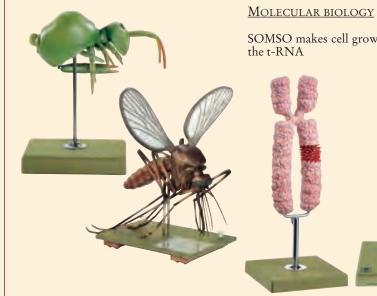
<u>Realistic life-size</u> ANIMAL MODELS

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).





INVERTEBRATES	
Echinoderms	page 168
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Cnidarians	page 167
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Ciliata	page 167
Rhizopoda	page 167



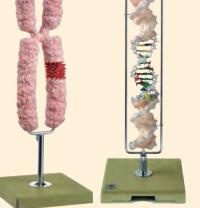


DEVELOPMENT IN ANIMALS

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

SOMSO makes cell growth visible up to





SINCE 1876



Anatomical animal models by SOMSO

Nature is our Model

VERTEBRATES AND INVERTEBRATES

Zoology 1 - Vertebrates







ZoS 1/1 viscera Detachable stomach see ZoS 6/1

$ZoS1 \cdot Cow$

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.

$ZoS 1/1 \cdot Cow$

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.





$\begin{array}{c} \text{ZO 3} \cdot \text{Demonstration} \\ \text{Model of the Cow} \end{array}$

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 $4 \cdot \text{NOSE}$ 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.



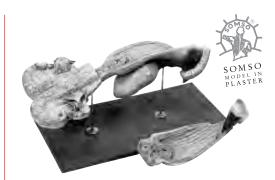
ZO 7 \cdot KIDNEYS OF THE COW

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.



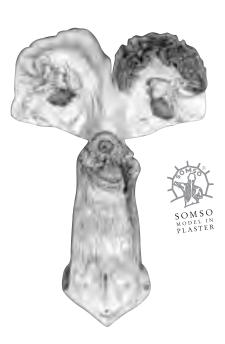
ZO $9 \cdot$ Female Genital Organs of the Cow

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 \cdot Models of Sets of Cow's Teeth

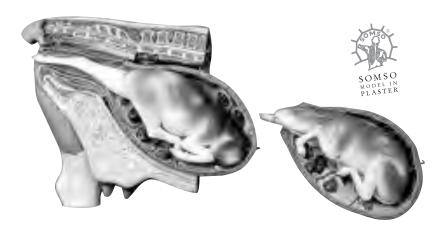
In SOMSO-Plast. Natural casts of the lower jaw showing ten different stages of growth: 14 days, 1 year, 1 1/2 years, 2 years, 3 years, 4 years, 5 years, 9 years, 14 years, and 18 years. In one piece. Individually mounted on bases. Measurement of a single model: Height: 10 cm., width: 12 cm., depth: 12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



ZO $8 \cdot$ 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.

Zoology 1 - Vertebrates



Zo 11 \cdot 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 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 \cdot 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.



ZO $10 \cdot \text{Cow}$ - 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.



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.

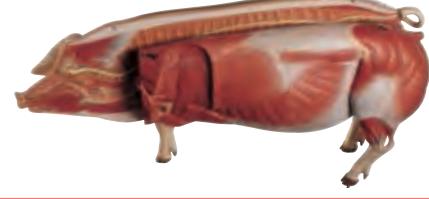


ZOS 18/1 · MODEL OF A BREEDING PIG (DAM)

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.









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 STOMACH OF THE PIG PLASTEI 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.

Zo 21 ·

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.

Zoology 1 - Vertebrates



$\text{ZO}\ 28 \cdot \text{Horse}$

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 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.



 $\text{ZO } 29 \cdot \text{Horse}$

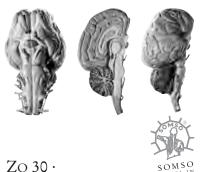
1/4 natural size. Left side shows the hide. The right side the skeleton with topography of the thoracic and abdominal organs. The skeletons of the fore and hind extremities are removable. Separates into 3 parts. On a base. Height: 60 cm., width: 68 cm., depth: 20 cm., weight: 4.1 kg.



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.





BRAIN OF THE HORSE PLASTER Natural size. Median section. Separates into 2 parts. Without base. Height (length): 12 cm., width: 15 cm., depth:

10 cm., weight: 600 g.



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 $33\cdot S\text{ets}$ 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.



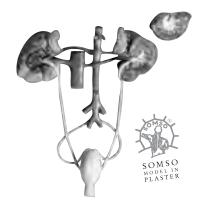
Zo 41 · Knee-Joint of the Horse

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 \cdot 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 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 40 \cdot 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.

Zoology 1 - Vertebrates







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.





Zo 24 \cdot 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.





$ZoS 27/1 \cdot Cat$

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.







ZO $109 \cdot MODEL OF A SHEEP-DOG$

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.





$ZOS 26 \cdot DOMESTIC HEN$

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.





ZOOLOGY 1/2 - VERTEBRATES, INVERTEBRATES



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 \cdot 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 \cdot 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 \cdot Model of the Brain of a Honey Bee as ZoS 47/3, but without head capsule

Zoology 1/2 - The marvel of nature, the bee





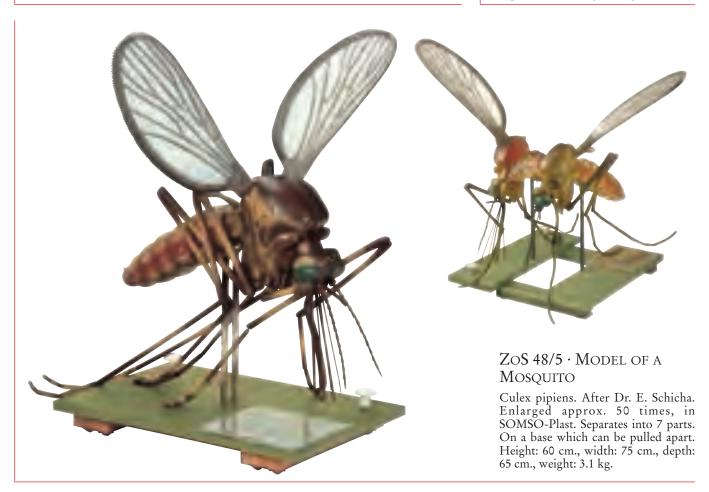
$ZoS 47/1 \cdot$ Model of the Worker Bee

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.



ZOOLOGY 2 - INVERTEBRATES



ZoS 48/1 \cdot 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.



$\operatorname{ZoS} 48/2 \cdot$ 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



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.



$ZoS 48 \cdot Head \text{ of Carabus}$

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.



$ZoS 48/6 \cdot Model of the Head of a Cockroach$

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 48/4 \cdot 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 49/14 \cdot 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.



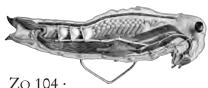
ZoS 49/20 · Headlouse

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.



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.



$ZoS 49/31 \cdot Model of a Fly$

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.



 $ZoS 49/22 \cdot Aphid$

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 $47/5 \cdot Bark$ 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: Zo**S 122** · Tick

Zoology 2 - Invertebrates



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 tapeworm, 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 $117 \cdot \text{Vineyard Snail}$

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 \cdot 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.

Zoology 2 - Invertebrates



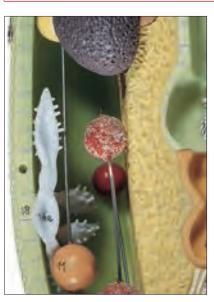
ZoS 101 · Model of a Single Cell Changing Animalcule

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 SÓMSO-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.



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

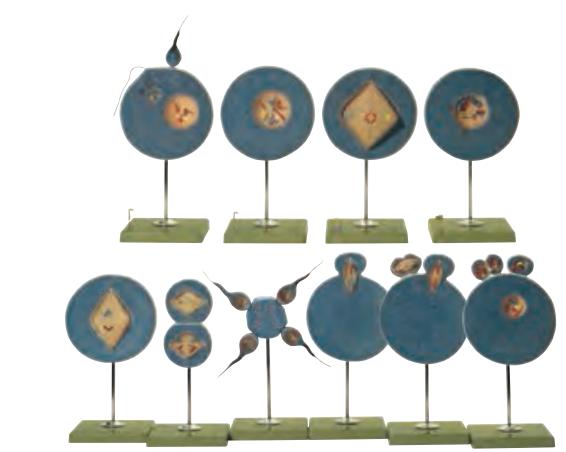


DEVELOPMENT OF ANIMALS

COMPARATIVE ANATOMY PROFESSIONAL TRAINING MODELS

ZOOLOGY

ZOOLOGY 3 - DEVELOPMENT OF ANIMALS



$\text{ZoS}~57/2\cdot\text{Meiosis}$

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.

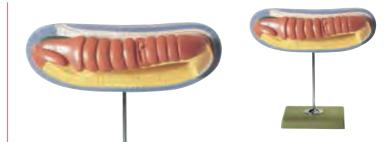






ZOS 59/K · LONGITUDINAL SECTION OF THE LARVA OF THE LANCELET AT THE BEGINNING OF DEVELOPMENT

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 \cdot Longitudinal Section of an Older Larva of the Lancelet with Nine Original Segments

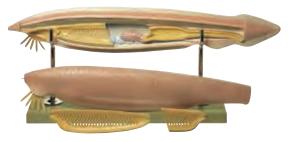
Advanced development, enlarged approx. 150 times, in SOMSO-Plast. The left external membrane has been removed. In one piece. On a stand with base. Height: 21 cm., width: 25 cm., depth: 12 cm., weight: 400 g.



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 \cdot 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 \cdot 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.

$\text{ZoS}~59\cdot\text{Lancelet}$

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 \cdot 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

ZOOLOGY 3 - DEVELOPMENT OF ANIMALS



ZoS 110/1 \cdot 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 \cdot 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.

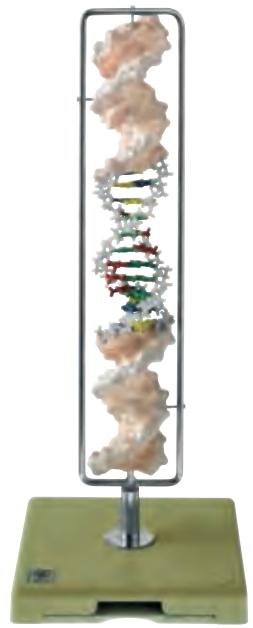


ZoS 57/1 · Mitosis

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.

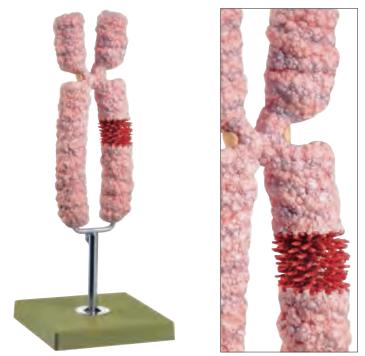
MOLECULAR BIOLOGY





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 \cdot 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)

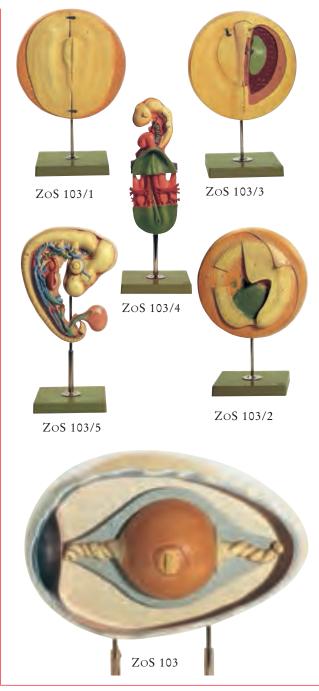
Scale: 11 x 10E6 : 1, in SOMSO-Plast. Developed in co-operation with Prof. Dr. H.P. Jennissen, Dr. M. Laub and Prof. Dr. G. Witt. On a stand with base. Height: 3.8 cm., depth: 7.8 cm., width: 4.4 cm., weight: 30 g.

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.

Zoology 3 - Development of Animals



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 \cdot 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 $103/2 \cdot$ 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 $103/3 \cdot$ 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 \cdot 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.

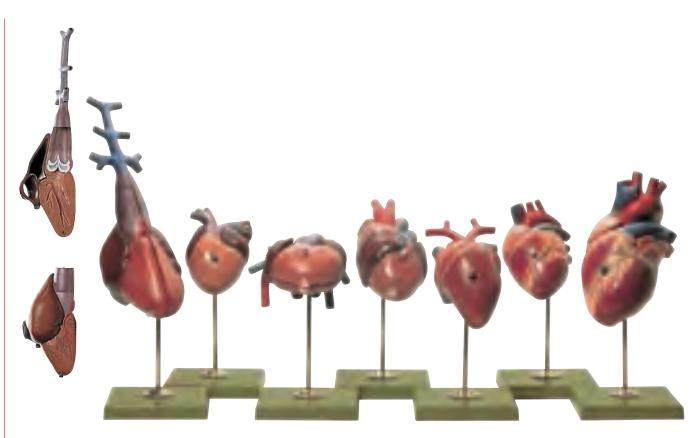


Zo $61 \cdot M$ odels Showing the Development of the Frog

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.







ZoS 54/1 \cdot 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 \cdot 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.

ZOOLOGY 4 - COMPARATIVE ANATOMY



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 \cdot 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 \cdot 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 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.



GIBBON SKULL

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

ZOOLOGY 4 - COMPARATIVE ANATOMY



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 \cdot 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 SOM-

SO-Plast. Weight: 120 g.



ZoS 53/131 · Artificial Hand Skeleton of a Chimpanzee

Natural cast, in SOM-SO-Plast. Weight: 107 g.



ZoS 53/116 · Artificial Pelvis of a Chimpanzee

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

ZOOLOGY 5 - PROFESSIONAL TRAINING MODELS







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.



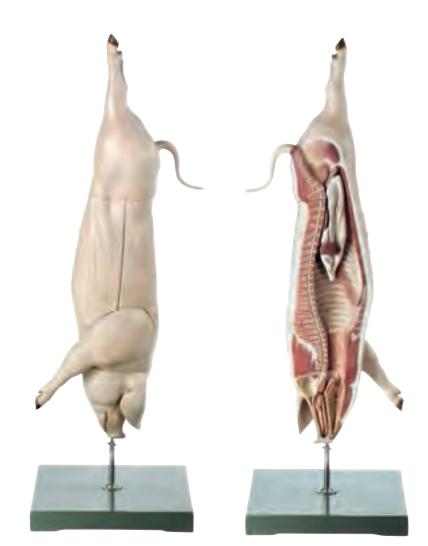
Zo $88 \cdot Pig's$ Hoof with Foot Disease

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.



$50/5 \cdot \text{Model}$ 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.



ZOOLOGY 5 - PROFESSIONAL TRAINING MODELS





Zo 84 \cdot 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 $85 \cdot \text{Cow's}$ 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.



$50/6\cdot \text{Model}$ 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



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 \cdot Breeding Pig "Ingrid"



ZO 67 \cdot Ennobled country pig



ZO 66/III-12 · Bavarian breeding pig

Zoology 5 - Thoroughbred animal statuettes





 $\operatorname{Zo} 73 \cdot \operatorname{Model}$ of East Fresian Breeding Bull



ZO 74/VIII-52 · Herkules, Holländer Bull



Zo 74/II-9 · "Schwarzbunte" East Fresian Cow



Zo 74/VIII-49 \cdot Henni, Oldenburger Cow



Zo 69 · "Höhenfleckvieh" Simmentaler-Bull



Zo 74/II-1 \cdot Simmenthaler-Bull





Zo 74/II-2 \cdot Simmenthaler-Cow



Zo 74/II-28 · Ayrshire-Cow



ZO 62/I-4 \cdot Belgian Mare "Charlotte"



Zo 74/II-26 · Jersey-Cow



Zo 71 \cdot Model of Fresian Dutch Cow



ZO $62/1 \cdot Bavarian$ Warmblut Mare







ZO 62/I-17 \cdot "O Bajar", original Arabian Horse



ZO 62/I-18 · "GREAT HORSE"



ZO 62/I-8 \cdot Demonstration model of a horse



ZO 62/I-19 · Arabian stallion



SINCE 1876

REALISTIC LIFE-SIZE ANIMAL MODELS

Nature is our Model





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 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.



ZOOLOGY 6 - REALISTIC LIFE-SIZE ANIMAL MODELS





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 $1005 \cdot Palmate Newt, Pair$ 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.

ZOOLOGY 6 - REALISTIC LIFE-SIZE ANIMAL MODELS



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.







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 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 1014 · NATTERJACK Bufo calamita. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 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 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 1020 · AGILE FROG Rana dalmatina. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 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 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 1021 · POOL FROG Rana lessonae. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.2 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 1019 · MOOR FROG Rana arvalis. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 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 1022 · Marsh Frog

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



ZOOLOGY 6 - REALISTIC LIFE-SIZE ANIMAL MODELS

$ZoS 1027 \cdot Common$ WALL LIZARD, MALE

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

$ZoS 1027/1 \cdot Common$ WALL LIZARD, FEMALE

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



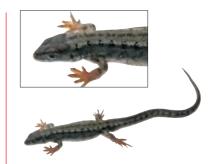
ZoS 1027/2 · Common Wall LIZARD, MALE

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 1028 · Green Lizard, Male



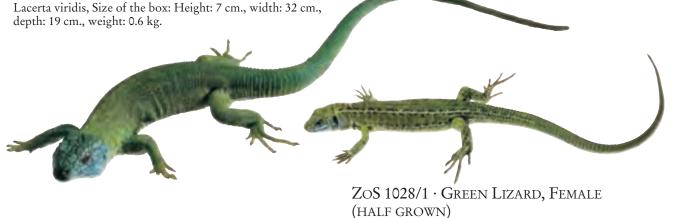
 $ZoS 1029 \cdot Viviparous$ LIZARD, MALE

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



 $ZoS 1029/1 \cdot Viviparous$ LIZARD, FEMALE

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



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.







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 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 1032 \cdot Smooth Snake, Male

Coronella austriaca. Size of the box: Height: 10 cm., width: 18 cm., depth: 18 cm., weight: 0.29 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 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 1034 · Dice Snake

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

$\label{eq:cology-colo$



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 SALAMAN-DER, FEMALE Salamandra a. atra

ZOS 1000/2 · ALPINE SALAMAN-DER, 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.







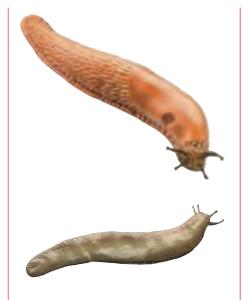


ZoS 1206 · Mediterranean Chameleon Chamaeleo chamaeleon. On a base. Size of the box: Height: 15 cm., width: 12 cm., depth: 12 cm., weight: 0.15 kg.



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

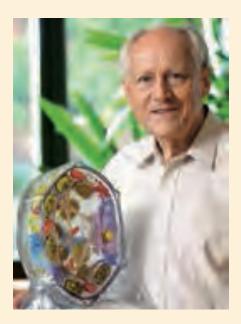
Arion rufus. Size of the box: Height: 7.5 cm., width: 12 cm., depth: 12 cm., weight: 0.1 kg.



ZoS 2001 \cdot 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
$D_{0}C_{1}E/0$	Germination
BoS 15/8 BoS 15/9	Flower of the Grape Vine Potato Flower
BoS 15/9 BoS 15/11	Papa Elower
BoS 15/11 BoS 15/12	Rape, Flower Rape, Pod
BoS 15/12 BoS 15/14	Flower of Willow,
D05 15/11	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
	A Buttercup, Flower
BoS 15/20-I	3 Buttercup, Fruit
BoS 15/21	Cherry Flower
BoS 15/33	Cacao Fruit
BoS 17	Deciduous Leaf
BoS 17/1	Section through the
BoS 17/2	Leaf of Helleborus Stoma of the
D03 1772	Lower Surface of a
	Christmas Rose Leaf
BoS 21/1	Section through a
000 21/1	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

2	
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
BoS 22/5-E	Young Root of the Buttercup Young Root of the Buttercup Cross Section through the Peripheral Part

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:

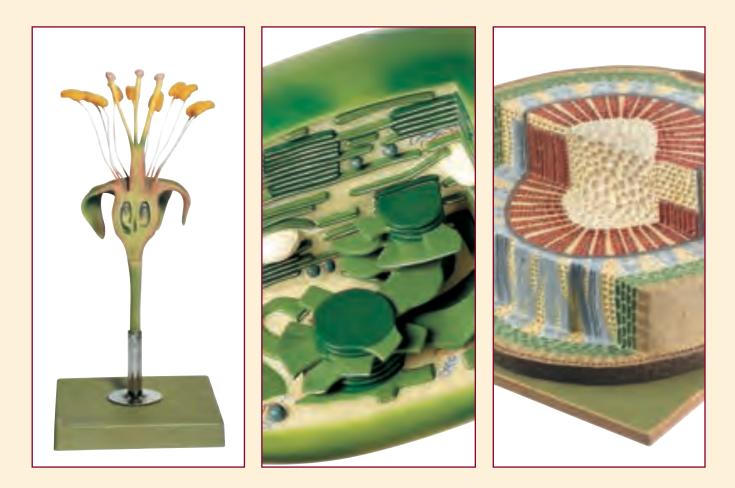
BoS 15/7	Model showing
	Germination
BoS 15/30	Pine, Male
BoS 15/31	Pine, Female
BoS 15/31-1	Pine Cone Scale
BoS 21	Anatomical Structure
	of Pine Wood
BoS 21/2	Needle Leaf of the
	Austrian Pine, Pinus nigra

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	
<u>Fungi</u>		



SOMSO Modelle Since 1876



PLANT MODELS

PLANT MORPHOLOGY

Nature is our Model

BOTANIY

BOTANY 1 - PLANT MODELS

DICOTYLEDONOUS PLANTS



BoS $1 \cdot Apple Flower$

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 \cdot 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 $15/12 \cdot \text{Rape Pod}$

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 $15/11 \cdot Rape$, 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 15/19 · 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 $15/16 \cdot PEA$, 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.



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 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 15/20 · 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 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.



Bo**S** 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 SOM-SO-Plast. After 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.

GERMINATION OF PLANTS



BoS 15/7 \cdot 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.



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.

Gymnospermous plants

BoS $15/31 \cdot Pine$, 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 \cdot 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

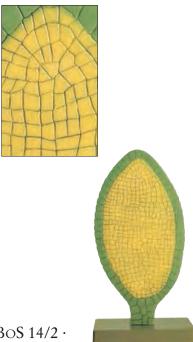
Mucor mucedo, enlarged approx. 250 times, in SOMSO-Plast, according to Prof. Dr. W. Weber. The model shows sexual and asexual reproduction. Separable into 3 parts. Mounted on a board with explanatory note. Height: 18.5 cm., width: 32 cm., depth: 25.5 cm., weight: 600 g.

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.

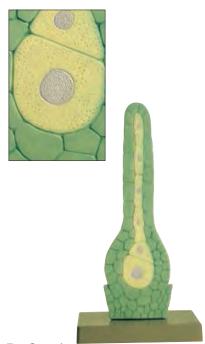
BoS 14/4 · Horsetail

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.

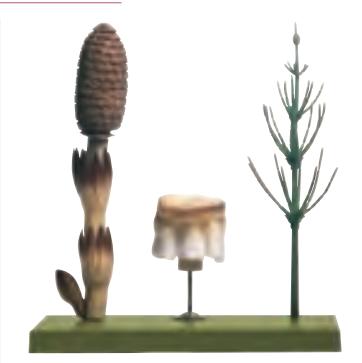


BoS 14/3 · Liverwort

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.

SINCE 1876

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 \cdot 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 \cdot 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.

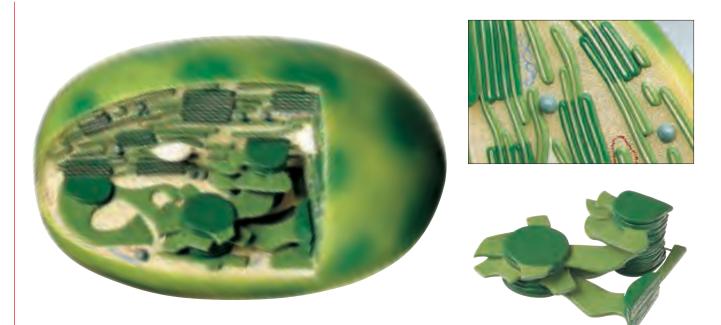
BOTANY 2 - PLANT MODELS

PLANT CELL



BoS 16/1 \cdot 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 \cdot 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.

Plant morphology





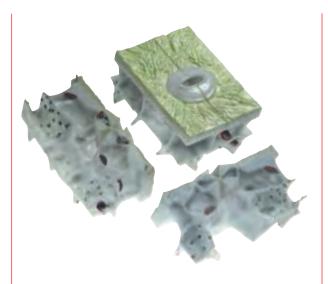


BoS 17 \cdot Deciduous Leaf

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 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 17/2 · 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.

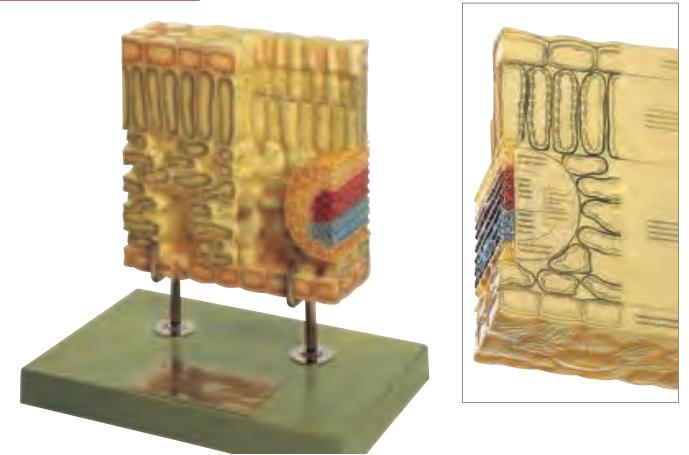


BoS 17/3 \cdot Maize Leaf in Longitudinal and Cross Section

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.

BOTANY 2 - PLANT MODELS

Plant Morphology



BoS 17/1 \cdot Section through a Christmas Rose Leaf

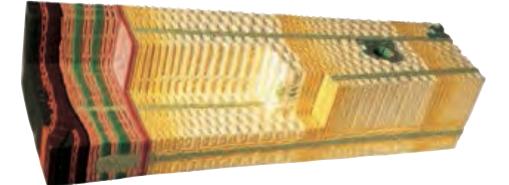
Helleborus niger, enlarged 700 times, in SOMSO-Plast. After Prof. Dr. W. Weber. The model shows the upper epidermis with cuticula, the assimilatory parenchyma (differentiated in palisade and spongy tissue with vascular bundle) and the lower epidermis with stomata. In one piece, on a stand with base and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



BoS 18 \cdot Model of a Wheat Grain as an Example of a Caryopsis

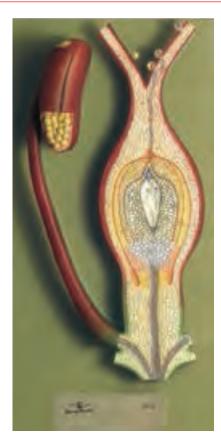
Triticum aestivum L., enlarged approx. 75 times, in SOMSO-Plast. After Prof. Dr. W. Jung. The model demonstrates a wheat grain divided longitudinally. The embryo can be removed. The cell layers of the fused fruit and seed shell are represented in cross section, longitudinal and surface section. The remainder 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.





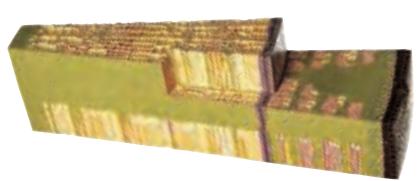
BoS 21 \cdot Anatomical Structure of Pine Wood

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 $19 \cdot$ 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.

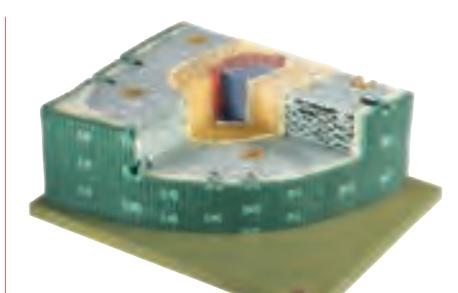
BoS 20/2 · Root Tip of a Monocotyledonous Plant in Longitudinal and Cross Section

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

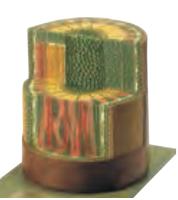


BoS $21/2 \cdot$ Needle Leaf of the Austrian pine

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 \cdot 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.



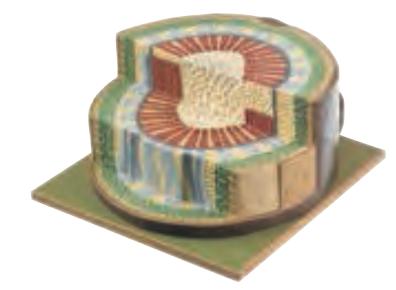
Enlarged approx. 550 times, in SOMSO-Plast. After Prof. Dr. W. Jung. In one piece. On a base with explanatory note. Height: 13 cm., width: 32 cm., depth: 26 cm., weight: 1.4 kg.





Bo $22/1 \cdot \text{Series}$ 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.



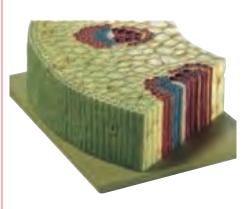
BoS 22/4-E \cdot Section through the Stem of a one Year Old Dicotyle Plant

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.



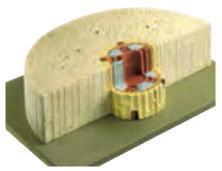
BoS 22/5-E \cdot Young Root of the Buttercup

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 22/6 · 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 22/7 \cdot 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:

<u>A</u>	
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

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 Clavulina cristata Bo 217 Bo 197 Clavulinopsis argillacea Bo 191 Clitocybe geotropa Bo 231 Clitocybe Odora Bo 107 Clitocybe vibecina Bo 98 Clitopilus prunulus Bo 198 Collybia asema Collybia fusipes Bo 186 Bo 124 Collybia maculata Bo 175 Coprinus alramentarius BoS 130 Coprinus Comatus Bo 115 Cortinarius armillatus Bo 239 Cortinarius croceus Bo 214 Cortinarius crocolitus Cortinarius delibutus Bo 210 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 Bo 102 Daedalea quercina Bo 132 Dermocybe cinnamomealutea BoS 226 Development of Hat Fungi Bo 147 Fistulina hepatica Bo 150 Flammulina velutipes 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 Bo 154 Helvella Crispa Bo 65 Hvdnum 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 Bo 167 Inocybe fastigiata BoS 156 Inocybe Patouillardi BoS 159 Inocybe Patouillardi

D

F

G

Η

Κ BoS 230 Kefir-Mushroom BoS 63 Kuehneromyces Mutabilis L. Bo 80 Laccaria amethystina

DO 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

Μ

BoS 45 Macrolepiota Procera BoS 46 Macrolepiota Procera Macrolepiota procera Bo 218 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

0

Р

Bo

Bo 114 Otidea onotica BoS 163 Oudemansiella Radicata

D '11 A

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
<u>R</u>	
Bo 165	Ramaria aurea
Bo 137	Ramaria flava
Bo 85	Ramaria formosa
Bo 76	Ramaria mairei
Bo 216	Ramaria stricta
Bo 215	Rhodophyllus nidorosu
Bo 209	Rhodophyllus sinuatus
BoS 55	Rozites Caperata
Bo 161	Russula Aeruginea
BoS 96	Russula Emetica

Russula Foetens

Russula Integra

Bo 118 Russula olivacea

Russula Nigricans

Russula ochroleuca

Bo 94

Bo 92

Bo 127

Bo 109

Bo

Bo

Bo Bo

S

Bo

Bo

Bo Bo

Bo

Во

Bo

Bo

Во

Bo

110	reasonala on acca
93	Russula Paludosa
30	Russula sardonia
112	Russula xerampelina
S 223	Rusulla Vesca
S 54	Sarcodon Imbricatus
S 56	Scleroderma Citrinum
122	Scleroderma citrinum
S 79	Sparassis Crispa
176	Stropharia aeruginosa
105	Strobilomyces floccopus
S 227	Structure of Hat Fungi
	(Large model)
70	Suillus Bovinus
212	Suillus Granulatus
213	Suillus Granulatus
S 71	Suillus Grevillei
S 36	Suillus Luteus
220	Suillus placidus
S 47	Suillus Variegatus

Т Bo

129	Tremiscus helvelloides
178	Tricholoma batschii
100	Tricholoma columbetta
S 48	Tricholoma Flavovirens
205	Tricholoma imbricatum
200	Tricholoma portentosun
201	Tricholoma portentosun
195	Tricholoma saponaceum
0 192	Tricholoma Sulphureum
33	Tricholoma terreum
148	Tricholoma vaccinum
27	Tricholomop sis rutilans
9194	Tuber Aestivum
S 34	Tylopilus Felleus

Х BoS 43 Xerocomus Badius Bo 110 Xerocomus Chrvsenteron 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 59 ·

CRATERELLUS

CORNUCOPIOIDES

(L.) ex PERS. Edible.



BOS 55 · ROZITES CAPERATA (PERS. ex FR.) KARST. Edible.

BoS 60 ·

LEPISTA PERSONATA

(FR. es FR.) CKE. Edible.



BOS 56 · SCLERODERMA CITRINUM PERS. Poisonous.

BoS 61 ·

LEPISTA PERSONATA

(FR. es FR.) CKE. Edible.



BoS 57 · Lycoperdon Perlatum Pers. ex Pers. Edible, when young.



BOS 62 · ARMILLARIELLA MELLEA (VAHL ex FR.) KARST. Edible.



BO 58 · CANTHARELLUS TUBAEFORMIS FR., edible.

BOTANY 3 - FUNGI MODELS



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 ·LEUCOGOMPHIDIUSGLUTINOSUS(SCHFE, ex FR.) KOTL. etPOUZ,. Edible



BO 70 · SUILLUS BOVINUS (L. ex FR.) O. KTZE. Edible (tough).



BoS 71 · Suillus grevillei (Klotzsch) sing. Edible.



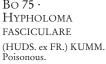
BOS 72 · AMANITA PANTHERINA (DC. ex FR.) SECR. Very poisonous.



BO 73 · LACTARIUS VOLEMUS FR. Edible. BO 74 · LEPISTA NEBULARIS (FR.) HARMAJA., Edible in small quantities



Bo 75 ·





BO **76** • RAMARIA MAIREI DONK., indigestible.



BO 77 · BOLETUS CALOPUS FR., indigestible., poisonous.



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



JS 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.





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 $107 \cdot Clitocybe$ VIBECINA (FR.) QUÉL.



BO 108 · HYGRPCYBE **PSIT**TACINA (SCHFF. ex FR.) WÜNSCHE. Edible.



BO 109 · RUSSULA OCHROLEUCA (PERS. ex SECR.) FR., young edible.



Bo 110 · Xerocomus CHRYSENTERON (BULL. ex ST.-AM.) QUÉL. Èdible.



Bo 111 · Amanita vaginata (BULL. ex FR.) VIT^{*}T., Edible.



BO 112 · RUSSULA XERAMPELINA (SCHFF. ex SECR.), Edible.



Bo 113 · LAETIPORUS **SULPHUREUS** (BULL. ex FR.) MURR., young edible.



Bo 114 \cdot Otidea ONOTICA (PERS. ex S.F. GRAY) FUCK, edible.

Bo 119 ·

MUCOSUS

èdible.



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., èdible.



Cortinarius Bo 120 · LACTARIUS VIETUS (BULL. ex FR.) KICKX., FR., not edible.



Bo 121 · LENTODIOPSIS DRYINA (PERS. ex FR.) KREISEL, young edible.



Bo 122 · **S**CLERODERMA 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.



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 $129 \cdot \text{Tremiscus}$

(DC. ex FR.) DONK, edible.

HELVELLOIDES

BO 134 · GYROPORUS CYANESCENS (BULL. ex FR.) QUÉL. Edible.

Bo 139 ·

Èdible.

Aleuria aurantia

(PERS. ex FR.) FUCK.



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.







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 · J 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 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	Bo 164 · Group of Big yellow Boletus	Bo 165 · Ramaria	BoS 166 - Boletus satanas, Huge Specimen	Bo 167 · INOCYBE FASTIGIATA
RADICATA (RELHAN ex FR.) SING. Edible.	Top diameter 17 cm., Boletus edulis BULL. ex FR. Edible.	AUREA (FR.) QUÉL., edible.	Top diameter 20 cm., LENZ. Poisonous.	(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 (Quèl) Sacc. Edible.	Bo 182 · Agaricus Hortensis (CKE.) Pilat. Edible.

BOTANY 3 - FUNGI MODELS







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 219 ·

VULGARIS

PERS. Edible.

Morchella



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 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 231 · CLITOCYBE ODORA (BULL. ex FR.) KUMM. Edible



BO 236 · Cortinarius Rubellus



Bo 239 · Cortinarius croceus



LANGERMANNIA GIGANTEA (BATSCH ex PERS.) ROSTK. Edible when young.

Bo $232 \cdot Hydnellum$

(Fr.: Fr.) Karsten. Not edible.

FERRUGINEUM

Bo 237 ·

Bo 240 ·

Cortinarius

STILLATITIUS

GYROPORUS

CYANESCENS





BO 235 · Cortinarius Splendens Sp.



Bo 238 · Cortinarius Limonius



Bo 241 · Lebista Gilva



Bos 227 \cdot 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 242 · CLATHRUS ARCHERI Group.



Bo 243 · Clathrus Archeri





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.



 $03/10 \cdot Cox$ Orange King Fruit



 $03/12 \cdot$ Freiherr von Berlepsch



08/10 · Gellerts Butterbirne



 $03/25 \cdot \text{King of the Pippins}$



03/14 · Blenheim Orange



03/15 · Gravenstein



 $03/13 \cdot Geheimrat Doktor Oldenburg$





03/17 · Jakob Fischer



03/18 · Jonathan



 $03/20 \cdot \text{Rheinischer Winterrambur}$



 $03/21 \cdot \text{Red}$ Belle de Boskoop



03/22 · Rote Stern Reinette



03/23 · Belle de Boskoop



 $03/24 \cdot Beauty of Wilts.$

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



 $03/26 \cdot$ White Winter Calville



 $03/27 \cdot White Transparent$



 $03/28 \cdot Golden Noble$



 $03/29 \cdot Ontario$



03/17 · Jakob Fischer



 $03/19 \cdot Kaiser Wilhelm$





03/30 · Baumann's Reinette



03/31 · Landsberger Reinette



03/32 · Reinette du Canada



03/33 · Harbert's Reinette



03/34 · Zabergau Renette



03/35 · Adersleber Calville



08/11 · Köstliche v. Charneau

The Somso history at a glance



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

7.07.1876



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.

Scientific co-operation

Hagedorn, Principal

Anatomical Institute

Preparator at the

in Leipzig.

and consultancy begins with Paul

Continuation of the

1890



191I



Acquisition of Coburger Lehrmittelanstalt (The Coburg Teaching Media Institute) by Max Albert Sommer, Neuses, Coburg

> From November 1936, production

and distribution of the thoroughbred

animal statuette

Landsberg and C.A. Brasch.

collection by Max

1930



1936



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

1948



In Sonneberg,

Marcus Sommer

models made of

1st January 1895:

1879, inherits his

father's business.

Good business

relations have been in

existence with Messrs.

Adam,Rouilly, since

customer in England.

After the death of

her husband Fritz

Sommer, Ida Sommer

managed the company

as partner until the

confiscation in 1952.

Marcus Sommer Jr.

born on 25th February

1907, became partner

company until he died

and managed the

on 26th December

1986

1927. Marcus Sommer Jr.

was able to win over this

Fritz Sommer,

papier maché.

begins the production

of anatomical teaching

1876



1895



1927



1934



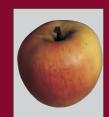
1937

1952



Take-over of Messrs. Marcus Sommer, Sonneberg, Thuringia. The property is confiscated and it becomes a stateowned company.

18th December 1952.



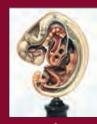
1880



1900



1929



1936



1947



1952

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

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

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

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

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

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.





1954



1963



1968



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

Re-assignment

of the parent company in

Sonneberg.

1974



1992



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

Thuringia

17.07.2001

25th March 1954: Re-introduction of the old com-Marcus Sommer Werkstaetten.

pany name

SOMSO-

Coburg

1st September

1963: Hans

Sommer,

born 18th

December

1944, enters

the company.



March 1990.

co-operation begins with the Zoologische Staatssammlung, Munich.

1st August

1954: Richard

Schott enters

the company,

who had

authorised

signatory

since 20th

Scientific

1966

family, Marcus

Traute and Hans

at the company.



1971



1980



1993



17.07.2006

1958



1966

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.

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

Scientific co-

mences with

Professor Dr.

MODELLE

operation com-

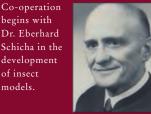


begins with

development

of insect

models.



1960

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

1974



1988



1999



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





and modeller. 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

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

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

Wolfgang Schmidt and Dr. Werner Schneller, Anatomical Institute, 130 Years SOMSO

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

ΑΝΑ	<u>ΓΌΜΥ</u> <u>Ρ</u> Α	<u>GE</u>	QS 7/1 Artificial Human Skul	ll 113	QS 54	Case with Collection	MS 33/E Doll for Baby Care 98
<u>111 111</u>		GE	QS 7/5 Artificial Human Skul	ll 113	2000	"Vertebrae and Spinal	MS 33/E-B Doll for Baby Care 98
A 35	<u>A</u> Abdominal and		QS 7/7 Artificial Human Skul QS 7/8-E Artificial Human Skul		CS 22	Cord" 131 Cataract Eye Model 50	MS 43 Doll for Baby Care, Female 98
11 55	Pelvic Organs		QS 7/9-E Artificial Human Skul	ll 114	FS 5	Cavities of Nose,	MS 43/B Doll for Baby Care,
N 42	Adductor Group		QS 7/E Artificial Human Skul QS 7/6 Artificial Human Sku			Mouth and Throat with Larynx 63	Female 98 MS 43/3 Doll for Baby Care,
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