An essential reference tool for laboratories and research institutes

From the Introduction

The mouse is the most widely used laboratory mammal in biomedical research. It is used to evaluate the safety and effectiveness of new pharmaceutical products, for research in tumor suppression, and vaccine and monoclinal antibody proportional studies. Approximately seven million mice are used for various research projects (JALAS Working Group, 1995) in Japan alone.

While picture information on the anatomies of humans and companion animals (especially dogs and cats) has been described in detail, so far, descriptions of the anatomy of the laboratory mouse are insufficient, apart from atlases focusing on the development of the fetal stages and specific body parts (brain, spinal cord, etc.) . Furthermore, some mistakes were discovered in mouse anatomy books published earlier in Japan. Detailed knowledge of the anatomy of the mouse has, therefore, become increasingly necessary.

Two types of Japanese outbred stock mice (ICR and ddy) of both sexes ranging in age from fetus to 20 weeks were used in this study. The mice were sacrificed using superfluous sodium pentobarbital (Nembutal; 100 mg/kg intravenously), and macro-and microscopic photographs of the dissected cadavers were taken immediately. Other cadavers were depilated using 20% barium sulfide (Junsei Chemical Co., Ltd.,Japan) and deep-frozen(-40°C). The frozen cadavers were cut (sagittal, dorsal and transverse) using a low-speed diamond disk saw blade (Labo-cutter; Maruto Co., Ltd.,Japan) to obtain samples for sectional anatomy. The surface of the sliced frozen specimen was dissolved, using physiological saline, before being photographed. Latex rubber mixed with red paint was poured into the arteries of some of the cadavers. All methods were performed according to the Guidelines on Animal Experimentation of the Jikei University, Japan.

Features of the color atlas:

- Untreated specimens provide life-like photographic information
- 55 color pages, 2pages of b&w macro-anatomical photographs (angiograph), and 93 pages of color sectional anatomical photographs(sagittal.dorsal, and transverse sections)
- Photographs offer comprehensive, three-dimensional images
- Japanese and English anatomical terms

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A Color Illustrated Anatomy of the Mouse

A Color atlas of sectional anatomy of the mouse

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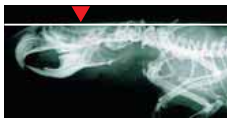
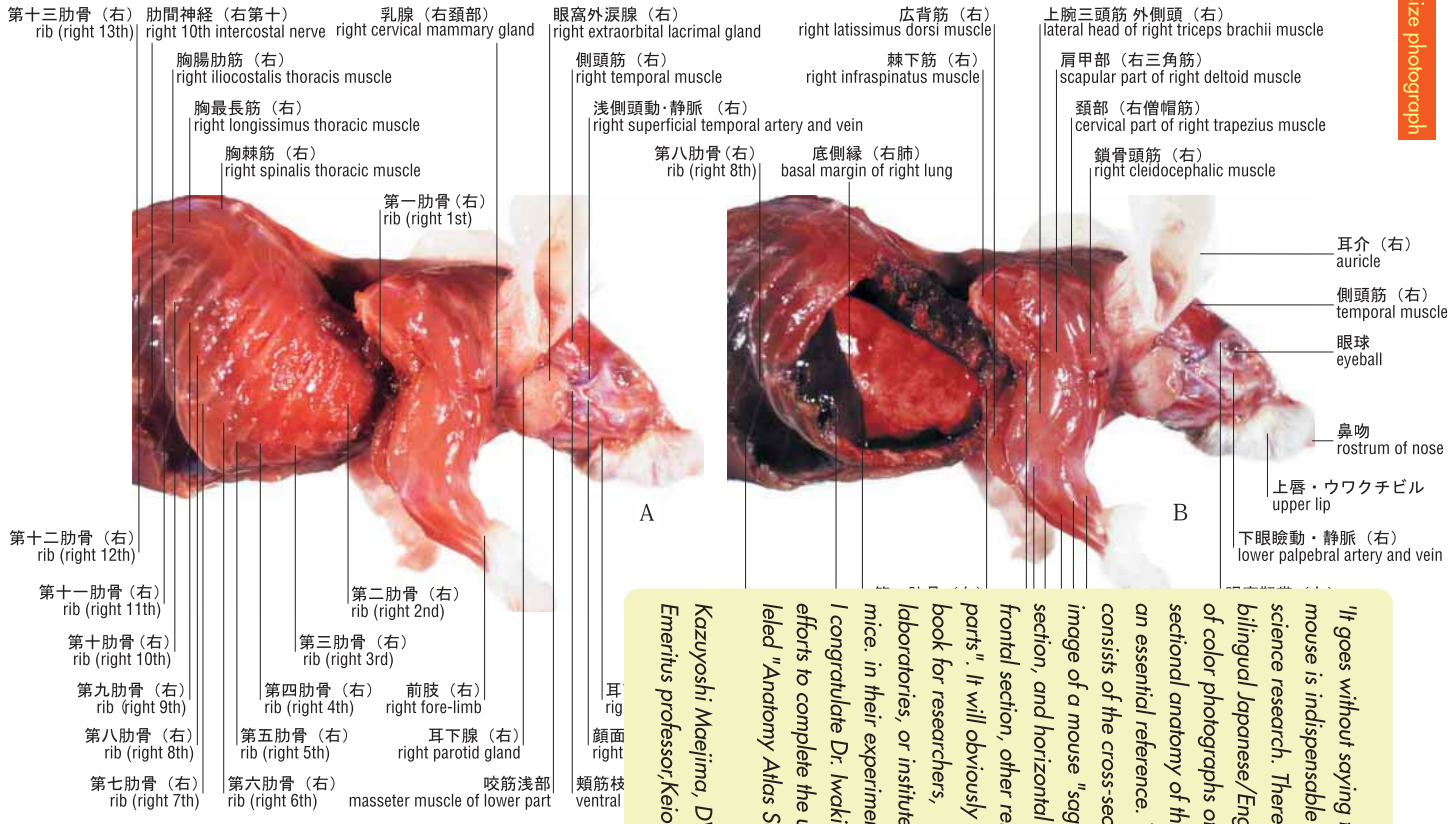


11 図　左右眼球および視床を通る水平断：背側観　JIa:ddY♀16週齢
Dorsal section through bilateral eyeballs and thalamus

Features:

- **A color illustrated anatomy of the mouse**
- **Consists of color photographs offering comprehensive and three-dimensional images**
- **Life-like photographic information**
- **Japanese and English anatomical terms**

Life-size photograph



26 図　胸部右側観（A図は剥皮、B図は右肺を出すため剥
Chest : view of right lateral surface(A) and thoracic c

"It goes without saying that a mouse is indispensable to life science research. Therefore, this bilingual Japanese/English book of color photographs of the sectional anatomy of the mouse is an essential reference. The book consists of the cross-sectional image of a mouse "sagittal section, and horizontal section, frontal section, other related parts". It will obviously be a key book for researchers, laboratories, or institutes using mice. In their experiments. I congratulate Dr. Iwaki on his efforts to complete the unparalleled "Anatomy Atlas Series".'

Kazuyoshi Maejima, DVM, Ph.D., Emeritus professor,Keio University

Life-size photograph