

介绍《中日兽类学学术讨论会论文集》

文献目录

《中日兽类学研究新进展》(Contemporary Mammalogy in China and Japan)一书,已于1985年秋由日本哺乳动物学会出版发行,194页,主编为川道武男(T. Kawamichi)。

该书收入1983年在中国合肥市召开的中日兽类学学术讨论会(见《兽类学报》Vol. 4, No. 1 1984)上宣读的论文共46篇,其中日方15篇,中方31篇。全书为英文版,为促进国内的学术交流,现将该书目录转译发表,以供参考。

生态学

1. 温带和寒温带森林中的日本猴的生态生物地理.....东滋
Ecological Biogeography of Japanese Monkeys (*Macaca fuscata* Blyth) in the Warm-and Cold-Temperate Forest.....Shigeru Azuma
2. 舟山及其邻近岛屿獐种群的初步研究.....盛和林 陆厚基
A Preliminary Study on the Chinese River Deer Population of Zhoushan Island and Adjacent Islets.....Helin SHENG and Houji LU
3. 内蒙古阴山北部四子王旗农牧区长爪沙鼠种群特征的比较研究.....周庆强 钟文勤 孙崇璐
Comparison of Population Characteristics of *Meriones unguiculatus* in Farm Land and Grass-land North of the Yin Mountains, Inner Mongolia.....Qingqiang ZHOU, Wenqin ZHONG and Chonglu SUN
4. 高原鼠兔年龄鉴定的主成分分析方法.....郑生武 周立
Principal Component Analysis Method in the Age Determination of Mole Rats.....Shengwu ZHENG and Li ZHOU
5. 滇西北甲午雪山的小型兽类及其垂直分布.....王应祥 李致祥 马世来
Small Mammals and Their Vertical Distribution in Jawu Mountain, Northwest Yunnan.....Yingxiang WANG, Zhixiang LI and Shilai MA
6. 日本陆栖兽类地理分布和四国小啮齿类的生态分布.....金子之史
Geographical Distribution of Terrestrial Mammals in Japan and Ecological Distribution of Small Field Rodents in Shikoku.....Yukibumi KANEKO
7. 日本北海道鼠科鼠类的生活型和生态分布.....太田 嘉四夫
Life Forms and Ecological Distribution of Wild Murid Rodents in Hokkaido, Japan.....Kasio OTA
8. 猕猴属的某些生态和进化特征.....和田 一雄
Essay on Some Ecological and Evolutionary Characteristics of the Genus *Macaca*.....Kazuo WADA
9. 浙江省岛屿兽类地理生态学的研究.....诸葛阳 姜仕仁 郑忠伟 方国伟
Geographical Ecology of Mammals and Birds on the Islands of Zhejiang Province.....Yang ZHUGE, Shiren JIANG, Zhongwei ZHENG and Guowei FANG
10. 五种鼠兔的社会结构和行为及其演化.....川道 武男
Behavior and Social Organization of Five Species of Pikas and their Evolution.....Takeo KAWAMICHI
11. 日本猴对积雪栖息地的生态适应.....好広 真一
Ecological Adaptations of Japanese Monkeys (*Macaca fuscata*) to a Snowy Habitat.....Shin'ichi YOSHIHIRO
12. 艾鼬和香鼬的日活动节律.....梁杰荣 程云年
Daily Activity Rhythms of Fitches and Alpine Weasels.....Jierong LIANG and Yunnian CHENG
13. 青海省植物和高原鼠兔系统动态的数学模型.....刘季科 周立 魏善武 沙渠 刘阳
A Mathematical Model for the Dynamics of the Plant and Plateau Pika System.....Jike LIU, Li ZHOU, Shanwu WEI, Qu SHA and Yang LIU
14. 皖南梅花鹿生态的初步研究.....陈壁辉 李冰华
Preliminary Research on the Ecology of the Sika Deer in South Anhui, China.....Bihui CHEN and Binghua LI
15. 复齿鼯鼠的生态研究.....王福麟
Preliminary Study on the Ecology of the Complex-Toothed Flying Squirrel.....Fulin WANG
16. 北京地区啮齿类社群结构的研究.....张洁

- Study on the Structure of the Rodent Community in the Beijing Area..... Jie ZHANG
17. 十年来新疆北部七种鼠类捕获率和体重平均值的年度变化.....朱盛侃
The Annual Changes of Mean Body Weight and Capture Rate of Seven Rodents in Northern
Xinjiang, China, for Ten Years..... Shengkan ZHU

兽类系统学和分类学

18. 中国姬鼠属和日本产姬鼠的亲缘关系.....夏武平
A Study on Chinese *Apodemus* and its Relation to Japanese Species..... Wuping XIA
19. 姬鼠属和有关属的分类问题.....小林 恒明
Taxonomical Problems in the Genus *Apodemus* and its Allies..... Tsuneaki KOBAYASHI
20. 短尾猴三个亚种G-带和C-带染色体的比较.....陈宜峰 罗丽华
Comparative Studies on G-and-C-Banded Chromosomes of Three Subspecies of the Stump-Tailed
Monkey (*Macaca speciosa*)..... Yifeng CHEN and Lihua LUO
21. 四川黑线姬鼠的种下分类和分布.....王西之
Subspecific Classification and Distribution of *Apodemus agrarius* in Sichuan, China.....
..... Yuzhi WANG
22. 翼手类动物宿主和它的外寄生虫的关系.....内川 公人
On the Host-Parasite Relationships among Chiroptera and their Ectoparasites.....
..... Kimito UCHIKAWA
23. 中国羚牛的分类和分布.....吴家炎
Systematics and Distribution of Chinese Takin (*Budorcas taxicolor*)..... Jiayan WU
24. 日本近海江豚的分布和回游.....西胁 昌治
Distribution and Migration of the Finless Porpoise in Japan..... Masaharu NISHIWAKI
25. 黄渤海斑海豹的分布和生态.....王丕烈
Distribution and Ecology of the Spotted Seal *Phoca largha* in the Yellow and Bohai
Seas..... Peilie WANG
26. 日本鼯分布的变迁.....阿部 永
Changing Mole Distributions in Japan..... Hisashi ABE
27. 中国麝的分类和分布.....高耀亭
Classification and Distribution of the Musk Deer (*Moschus*) in China..... Yaoting GAO
28. 新疆罗布泊地区的野生双峰驼.....谷景和 高行宜
The Wild Two-Humped Camel in the Lop-Nor Region..... Jing-he GU and Xing-yi GAO
29. 安徽省黑麝的食性和分布.....王岐山 胡小龙
Distribution and Food of the Black Muntjac in Anhui Province.....
..... Qishan WANG and Xiaolong HU
30. 大熊猫的生态地理分布.....胡锦涛
Ecogeographic Distribution of the Giant Panda..... Jin-chu HU

动物地理学和区系

31. 中国及其邻国的陆栖兽类分布.....张荣祖 林永烈
The Distribution of Land Mammals in China and its Adjacent Areas.....
..... Yongzu ZHANG and Younglie LIN
32. 中国东部古北区和东洋区分界线的研讨.....黄文几
The Demarcation Line between the Palaearctic and Oriental Regions in Eastern China.....
..... Wenji HUANG
33. 日本引进兽类的扩散.....朝日 稔
Dispersion of Mammals Introduced to Japan..... Minoru ASAHI
34. 海南岛的兽类区系.....徐龙辉 刘振河
Mammalian Fauna of Hainan Island..... Longhui XU and Zhenhe LIU
35. 华南啮齿类的分布和区系组成.....秦耀亮
Faunal Composition and Distribution of Rodents in South China..... Yaoliang QIN
36. 中国东北兽类区系特征及其形成历史.....马逸清
The Faunal Characteristics and Transformational History of Mammals in Northeastern China.....
..... Yiching MA
37. 吉林省小型兽类的生态地理分布.....金岚 陈鹏
Ecogeographical Characteristics of Small Mammals in Jilin Province.....
..... Lan JIN and Peng CHEN
38. 山东省兽类区系的初步研究.....卢浩泉
Preliminary Researches on the Mammal Fauna of Shandong Province..... Haoquan LU
39. 中国南方全新世遗址兽类区系初探.....张明华

dehydrogenase usually observed in all mammals are of tetramers formed by combinations of two different subunits. The subunits are of two different kinds called A and B (or M and H) which are determined by separate gene loci on the chromosome.

The present paper deals with the analysis of zone electrophoresis of lactate dehydrogenase isoenzymes in normal serum of 70 tree shrews (29 males and 41 females). We have improved the electrophoretic method described previously by Wang, J.S.. The electrophoresis is performed on 0.5% agarose gel thin layer in a pH 8.6 buffer containing 0.06M sodium diethyl barbiturate—0.2N hydrochloric acid. Isoenzymic separation of all specimens is performed on the day of sampling. The LDH isoenzymic activity in the gel is visualized with a staining solution consisting of sodium DL-lactate, nicotinamide adenine dinucleotide (NAD), N-methyl-phenazinium methylsulphate (PMS) and nitro-tetrazolium blue chloride (NBT). The gel is incubated at 37—40°C for 40 min.. The isoenzymic bands are excised from agarose gel and then eluted. The electropherograms of LDH isoenzymes are scanned by SHIMADZU dual-wave-length chromatogram scanner model CS-910 at $\lambda_1 = 570\text{nm}$ and $\lambda_2 = 500\text{nm}$, scanning speed for 20mm/min..

The results are as follows, the isoenzymic phenotypes of five different molecular forms are observed. Different bands are referred to as LDH₁, LDH₂, LDH₃, LDH₄ in order of relative mobility toward the anode and LDH₅ band toward the cathode in pH 8.6 buffer. LDH₁ is the fastest and LDH₅ is the slowest. The mean values of serum lactate dehydrogenase isoenzyme 1 to 5 components are 17.9, 14.5, 20.6, 19.7, 27.4% (in females) and 19.6, 15.2, 18.3, 17.7, 29.5% (in males) respectively. The content of LDH isoenzymes is in turn LDH₅ > LDH₁ > LDH₃ > LDH₄ > LDH₂ in serum of male and LDH₅ > LDH₃ > LDH₄ > LDH₁ > LDH₂ in serum of female. The H/M subunit ratio is 0.79 in serum of male and 0.78 in serum of female.

(上接240页)

- Preliminary Study of the Holocene (Neolithic Site) Mammalian Fauna of South China.....Minghua ZHANG
40. 日本第四纪兽类区系的变迁.....长谷川 善和
Changes in the Quaternary Mammalian Fauna of Japan.....Yoshikazu HASEGAWA
41. 第三纪淡水鲸化石在亚洲的首次发现.....周开亚 周明镇等
First Discovery of a Tertiary Platanistoid Fossil from Asia.....Kaiya ZHOU, Mingzhen ZHOU and Zhongru ZHAO

生理和技术

42. 几种气味刺激对小鼠性成熟的影响.....范志勤
Influence of Odour Stimuli on Sexual Maturation of Mice.....Zhiqin FAN
43. 长爪沙鼠平均每日代谢率和静止代谢率的关系.....孙儒泳 景绍亮
Relationship between Average Daily Metabolic Rate and Resting Metabolic Rate of the Mongolian Gerbil (*Meriones unguiculatus*).....Ru-yung SUN and Shao-liang JING
44. 大熊猫内脏器官比较组织学特征 I—消化系统.....神谷敏郎等 6 人
Comparative Histological Characteristics of the Visceral Organs of the Giant Panda I. The Digestive System.....Toshiro KAMIYA, Mitsuko MASUI, Koki TANABE, Izumi KAWASAKI, Hiroshi HIRAMATSU and Kazuo SAITO
45. 从兽类牙齿和骨骼的年层测定年龄技术.....大森司 纪之等
Ageing Techniques from Annual Layers in Teeth and Bone.....Noriyuki OHTAISHI and Noboru HACHIYA
46. 日本兽类的无线电跟踪的研究.....池田 启
Radio Tracking on Mammals in Japan.....Hiroshi IKEDA

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