The 47th Annual Meeting of the Herpetological Society of Japan

Tochigi Prefectural Education Center
Utsunomiya, Tochigi, Japan

October 25-26, 2008

Co-sponsored by Tochigi Prefectural Museum
# The 47th Annual Meeting of Herpetological Society of Japan

## Schedule:

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## Venue:

Tochigi Prefectural Education Center  
Kawaraya-cho 1070, Utsunomiya, Tochigi 320-0002, Japan  
Nearest Bus-stop: Nozawadera-mae (see the next page)

## Fee:

Registration, ¥3,500, banquet, ¥4,500 (registered by 29 August: registration, ¥3,000, banquet, ¥4,000)

## Oral presentation:

Each presentation should be made for 12 minutes, and will be followed by 3 minutes of discussion. Files for the presentation should be formatted for the Microsoft PowerPoint 2003 or Adobe (Acrobat) Reader in Windows (XP). Please pass your file in CD or USB stick memory to our staff at reception desk.

## Poster presentation:

Poster panel size: 90 cm (width) x 180 cm (height). Posters can be set up from 9:00 on 25 October, and should be removed by 15:00 on 26 October by presenters.

## Abstracts:

Abstracts of presentations, which will appear in the Bulletin of the Herpetological Society of Japan 2009(1), should be sent to "abst@frog.econ.keio.ac.jp" by 12:00 pm, on 24 October 2008.  
Each abstract should include title, author(s), his/her (their) affiliation(s) and text (less than 200 words).

## The Office of the 47th Annual Meeting of the Herpetological Society of Japan

c/o Terutake Hayashi, Tochigi Prefectural Museum,  
Mutsumi-cho 2-2, Utsunomiya, Tochigi 320-0865, Japan  
Tel.: +81-28-634-1311  
Fax: +81-28-634-1310  
Email: imori@muse.pref.tochigi.lg.jp
How to Get to Meeting Venue

Take urban bus for ‘Imaichi’ Nikko-Toshogu (今市・日光東照宮), ‘Funyu’(船生), ‘Sanno-Danchi’ (山王団地) or ‘Ishinada’ (石那田) at No 8 bus platform at western entrance of JR Utsunomiya Station and get off at ‘Nozawadera-mae’ (野沢寺前).

It takes about 10 minutes to walk from ‘Nozawadera-mae’ bus stop to Tochigi Prefectural Education Center (see map below).

Timetable for bus

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<th>25 Oct (Sun) From Nozawadera-mae To JR Utsunomiya St</th>
<th>26 Oct (Sun) From Nozawadera-mae To JR Utsunomiya St</th>
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Oral Presentations
Room A (408), 25 October 2008 (Sat)

(Chairman: Hiroshi Ota)

Species diversity enhances ecosystem functioning: shredders facilitate leaf litter decomposition by tadpoles in a tropical stream

1A02 10:45—11:00 *Taku Ohnishi (Grad. Sch. Eng. Sci., Univ. Ryukyus), Hidetoshi Ota (Tropic. Biosph. Res. Center, Univ. Ryukyus)
Activity, reproduction and growth of the sympatric tip-nosed frogs (*Rana utsunomiyaorum* and *R. supranarina*) on Ishigakijima of the southern Ryukyus, Japan

1A03 11:00—11:15 *Kinji Fukuyama (Dept. Biol., Keio Univ.), Maya Numazawa (Frog House)
Female aggressive behaviors in *Rana nigromaculata* and *Rana porosa* II

1A04 11:15—11:30 *Yasuchika Misawa, Takaki Iwakawa (Civil Eng. Eco-Technol. Conslt.), Daisuke Ogo, Shintaro Hiramatsu (Kasegawa-dam Const. Work Office), Kimiaki Yoshida (Sashi Jr. High Sch.)
Efforts to conservation of *Buergeria buergeri* in the area around Kasegawa projected reservoir in Saga Prefecture

Method of detecting a very small amount of the amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) genome

A progress report on experimental exposures of Japanese frogs to a pathogenic chytrid fungus *Batrachochytrium dendrobatidis*

<Group photo, Lunch>

(Chairman: Atsushi Tominaga)

Molecular phylogeny of hynobiid salamanders based on high repetitive DNA

1A08 13:45—14:00 *Natsuhiro Yoshikawa, Masafumi Matsui, Kanto Nishikawa (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Genetic variation in *Onychodactylus japonicus* from northeastern Japan

The present situation and preservation of *Hynobius nebulosus* in Gifu and analysis of genetic variation

1A10 14:15—14:30 *Takashi Matsuki, Masafumi Matsui, Kanto Nishikawa (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Skeletochronology in *Hynobius nebulosus*: assessment of accuracy based on long-term mark and recapture method

1A11 14:30—14:45 *Mariko Sakamoto (F-TREK), Kazuhiro Sakata (WEST J. E. C.), Masafumi Matsui (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Growth comparison of two populations of *Hynobius yatsui*
Is the Japanese giant salamander a sedentary species?

<Poster presentations 15:00—16:30>

< Banquet 17:30—19:30>
Oral Presentations
Room B (409), 25 October 2008 (Sat)

(Chairman: Michihisa Toriba)

1B01 10:30—10:45 *Nobuto Kikukawa, Tsutomu Hikida (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Morphological evolution of the skull of the lacertid lizards of the genus *Takydromus* (Lacertidae: Squamata)

1B02 10:45—11:00 *Hirohiko Takeuchi, Tsutomu Hikida (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Phylogeography of *Rhabdophis tigrinus* in the Japanese main islands

1B03 11:00—11:15 *Mamoru Toda (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Historical biogeography of amphibians and reptiles in the Central Ryukyus, with special reference to phylogeography of *Ovophis okinavensis* and *Sinomicrurus japonicus*

Phylogeography of the genus *Cyrtodactylus* (Reptilia: Gekkonidae) in Southeast Asia

1B05 11:30—11:45 *Taku Okamoto, Tsutomu Hikida (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Distributional and demographic history of *Plestiodon japonicus* (Scincidae: Reptilia) inferred from genetic variation

1B06 11:45—12:00 *Masato Ohbuchi, Taku Okamoto, Tsutomu Hikida (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Sex pheromones of *Plestiodon* (Scincidae: Squamata) in the Japanese main islands

<Group photo, Lunch>

(Chairman: Yuichiro Yasukawa)

Ecological characteristics of sea turtles occuring in an adjacent water of Nomaike, Kagoshima

1B08 13:45—14:00 *Takashi Ishihara, Naoki Kamezaki (Grad. Sch. Agr. Life Sci., Univ. Tokyo), Yoshimasa Matsuzawa, Suguru Yamashita (Sea Turtle Assoc. Jpn.)
Age structure and age at maturity of loggerhead turtles living in coastal waters of Japan

1B09 14:00—14:15 *Noriko Tada, Masahiro Saka (Kyoto Pref. Inst. Public Health Environ.)
Size and age at sexual maturity and the testicular cycle in male Reeves' pond turtles *Chinemys reevesii*

Re-examination of the current classification of *Mauremys mutica* (Reptilia: Geoemydidae) based on the sequence variation of nuclear DNA

1B11 14:30—14:45 *Dai Suzuki, Tsutomu Hikida (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Phylogeography of the Japanese pond turtle, *Mauremys japonica*, based on mitochondrial DNA

1B12 14:45—15:00 *Akio Takahashi (21st Century COE, Univ. Ryukyus), Hidetoshi Ota (Tropic. Biosph. Res. Center, Univ. Ryukyus)
Taxonomic notes on the geoemydid turtle fossils found from the Pleistocene Taramajima Island of the Miyako Group, southern Ryukyus, Japan

<Poster presentations 15:00—16:30>

< Banquet 17:30—19:30>
Oral Presentations
Room A (408), 26 October 2008 (Sun)

(Chairman: Tomoko Tanaka-Ueno)

On Leptolalax from the Malay Peninsula

2A02 09:45—10:00 *Tomohiko Shimada (Fac. Bioenviron. Stud., Kyoto Gakuen Univ.), Masafumi Matsui (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.), Paul Yambun (Sabah Parks)
Distributional patterns of two species of Leptobrachium at the high altitude area of Mt. Kinabalu, Sabah, Malaysia

2A03 10:00—10:15 *Amir Hamidy, Masafumi Matsui (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Genetic variation in species of Leptobrachium from Sundaland with relation to true L. hasseltii

Genetic divergences and reproductive isolating mechanisms in Odorrana ishikawai from Okinawa and Amami

<Poster presentations 10:30—12:00>

<Lunch>

<Business meeting 13:00—14:00>

(Chairman: Yasuchika Misawa)

Origin and evolution of the Z and Y chromosomes in the frog, Rana rugosa

2A06 14:30—14:45 *Norihiro Kuraishi, Masafumi Matsui (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Relationship of genetic variation and morphological variation of the Polypedates leucomystax complex

Genetic characterization of the three endangered populations of daruma pond frog, Rana porosa brevipoda, in Hiroshima Prefecture

2A08 15:00—15:15 *Koshiro Eto (Fac. Sci., Kyoto Univ.), Masafumi Matsui (Grad. Sch. Hum. Environ. Stud., Kyoto Univ.)
Allometry of Rana tagoi tagoi from Kumogahata, Kyoto

Molecular phylogeny and phylogeography of the two Japanese newts of genus Cynops

Geographic variation in morphological characters of Pachytriton labiatus
**Oral Presentations**

**Room B (409), 26 October 2008 (Sun)**

(Chairman: Hajime Moriguchi)

2B01 09:30—09:45 *Akira Mori, Mamoru Toda (Dept. Zool., Grad. Sch. Sci, Kyoto Univ.)
Feeding ecology of *Ovophis okinavensis* in a northern area of Okinawa Island

2B02 09:45—10:00 *Mitsuhiko Toda, Naomi Nakagawa, Naozumi Sukigara (Jpn. Wildl. Res. Center), Noriyuki Komatsu (Civil Int. Corp.)
The investigation of spawning site selectivity of the green anole for development of new trap

2B03 10:00—10:15 Hiroo Takahashi (Jpn. Wildl. Res. Center)
Perch site and anti-predatory behavior of sleeping chameleon

Lizards respond to an extremely low frequency electromagnetic field

<Poster presentations 10:30—12:00>

*Lunch*

*Business meeting 13:00—14:00*

(Chairman: Akira Mori)

The primary and secondary sex ratios in two sympatric *Gekko* species from the northern part of Okinawajima Island, Japan (Reptilia, Squamata): a comparative study

Relationships between the adrenal gland size and the resistance to toad toxins in East Asian colubrid snakes

2B07 14:45—15:00 *Michihisa Toriba, Atsushi Sakai (Japan Snake Inst.), Masamitsu Shirokawa, Yasushi Nakajima, Makoto Mitsusada (Tokyo Metropolitan Hiroo General Hospital)
Bite by eastern green mamba occurred in Japan first time

2B08 15:00—15:15 *Masahiro Saka, Noriko Tada (Kyoto Pref. Inst. Public Health Environ.)
A frog metamorphosis assay to detect chemicals disrupting thyroid functions

Variation in body size between extant frogs on Okinawajima and their conspecifics in the Last Glacial period, with consideration of age effects

The frog, *Rana nigromaculata*, with a tail
Poster Presentations
Room 411 & 412
25 October 2008 (Sat) 15:00-16:30: Odd Numbers
26 October 2008 (Sun) 10:30-12:00: Even Numbers

P01 *Naho Mitani, Mitsuhiko Toda (Jpn. Wildl. Res. Center), Imari Ogino (Musashino Art Univ.), Hirokazu Kusu (Tsushima City Office), Kazuo Noda (Tsushima Ringyo), Takanori Matsuo (Nagasaki Ringyo High Sch.)
Expansion of distribution of introduced Indian rice frog (*Rana limnocharis*) in Tsushima

P02 Hiroyuki Fujita (Saitama Mus. River)
*Fejervarya limnocharis* have expanded distribution in the Saitama Prefecture northern area

The relationship between distribution of *Rana nigromaculata* and the paddy rice cultivation type in Ehime Prefecture

Growth of Tokyo daruma pond frog, *Rana porosa porosa* larvae in a paddy field

Habitat requirements of the gold-spotted pond frog, *Rana planctyi chosonica*: implications for conservation and management plans

Developing standard rearing and reintroduction protocols of the gold-spotted pond frog, *Rana planctyi chosonica*, an IUCN vulnerable species

P07 *Kanae Fujiwara, Masami Hasegawa (Dept. Biol., Toho Univ.)
Growth process of juvenile wrinkled frog, *Rana rugosa*, in Boso Peninsula

P08 *Hisao Nambu (Toyama Sci. Mus.), Tamotsu Fukuda (Toyamaminami High Sch.), Yoshiyada Araki (Wild Eyes)
Spawning place of the *Bufo* in mountain stream, Nozumi River, Toyama Prefecture, during 2008

P09 Takashi Haramura (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Hatching behavior of *Buergeria japonica* in response to salinity level

P10 *Itsuka Katsube (Ishigaki RONC., MOE.), Tomoyo Kobayashi (Ishigaki RONC., MOE./ IDEA Inc.), Shintaro Abe (Naha NCO., MOE.), Yasuo Takenaga (Ishigaki RONC., MOE.)
Control measures and the present status of an invasive frog, *Polypedates leucomystax*, in Ishigakijima Island of Yaeyama Group, Southern Ryukyu, Japan

Creating a digital frog data logger: measuring and monitoring amphibian populations in the twenty-first century

P12 *Yuta Muneto (Fac. Edu., Univ. Ryukyus), Atsushi Tominaga (21st Century COE, Univ. Ryukyus), Masanao Honda (Fac. Edu., Univ. Ryukyus)
A preliminary survey of the distribution of *Echinotriton andersoni* (Amphibia: Salamandridae) in the Okinawa Group, Ryukyu Archipelago

Phylogeography of *Echinotriton andersoni* (Amphibia: Salamandridae) in the Okinawa Group, Ryukyu Archipelago

**P14** Hiroshi Nakamura, Satoshi Tada, Isao Kinpara, Kaoru Satou, Hiroshi Hashimoto (Tokyo Sea Life Park), Hiroshi Arai, Shouzou Ogiso (Inogasira Park Zoo), Hiroko Ogawa (Tama Zool. Park), Hidemasa Hori (Ueno Zoo), Takashi Sugino (Tokyo Bureau of Construction)
Does the Japanese fire-bellied newt avoid the place where the Japanese eight-barbel loach exists as a spawning pond?

**P15** Sumio Okada (United Grad. Sch. Agr. Sci., Tottori Univ.), Taeko Utsunomiya (Hiroshima City), Tamami Okada (Hibikinomori Mus.), Zach Felix (Alabama A&M Univ.), Fumihiko Ito (Grad. Sch. Agr., Tottori Univ.)
Characteristics of Japanese giant salamander populations in two small tributary streams in Hiroshima Prefecture

Home range analysis of *Salamandrella keyserlingii* with radio-telemetry II

**P17** Sadao Ihara (Ohu Univ.), Osamu Inaba (Minamisoma City Mus.)
The incidence appearance of verrucas in *Hynobius lichenatus* in Minamisoma city

Patterns of and responses to the body undulation of male *Hynobius leechii* during mating

**P19** Masaichi Kakegawa (Komatsugawa High Sch.), Fujio Kishi (Shiromasa Assoc. Nat.)
Egg sac in salamander, *Hynobius hidamontanus*, from northern Hakuba area, Nagano Prefecture, Japan

**P20** Satoshi Osawa (Coll. Bioresource Sci., Nihon Univ.)
State of *Hynobius tokyoensis* on the forest on a cliff of a river terrace doted in Kamogawa-River lowland in southern Boso Peninsula.

**P21** Terutake Hayashi (Tochigi Pref. Mus.), Kizo Okada, Koichi Kobari, Nobuo Sasanauma, Yasuko Yamada, Kenji Hachiya (Green Trust Utsunomiya), Ryuichi Koshiba, Ryuji Takezawa (Utsunomiya City Office), Yuko Komura (Daimic), Koichi Inoue (Tochigi Pref. Mus.)
Measures to conserve *Hynobius tokyoensis* in Utsunomiya, Tochigi Prefecture, and their effectiveness

**P22** Munetaka Nakagawa (Soc. Environ. Biol.)
Distribution of amphibians and reptiles in Minami Yamashiro area in the southern Kyoto Prefecture

**P23** Makio Tempaku (Coll. Bioresource Sci., Nihon Univ.)
Relationships between the faunistic composition of freshwater turtles and the habitat in Miura peninsula

**P24** Yutaka Niwano, Tomomi Kataoka, Maho Hayashi, Masahiro Sato (Eco-Works)
Distribution and population structure of fresh water turtles in the Tamagawa-Jyosui waterworks

Distribution and population size estimation of freshwater turtles along the Funabashi River, Osaka Prefecture

**P26** Takeshi Imadu (Grad. Sch. Agr., Meiji Univ.), Masami Hasegawa (Fac. Sci., Toho Univ.), Noboru Kuramoto (Fac. Agr., Meiji Univ.)
Seasonal changes in age structure and spatial distribution of Reeves' turtle, *Chinemys reevesii* in Yatsuda paddy field
P27 *Yasuhiro Kosuge, Etsuo Morita (Turtle Network), Raita Kobayashi (Grad. Sch. Agr. Life Sci., Univ. Tokyo)
Influence of mammalians on Japanese fresh water turtles in Boso peninsula

P28 *Kanako Mitsuoka, Mitsuhiro Toda, Takahiro Miura (Jpn. Wildl. Res. Center)
Examination of good spot to catch snapping turtles

P29 *Raita Kobayashi (Grad. Sch. Agr. Life Sci., Univ. Tokyo), Masami Hasegawa (Fac. Sci., Toho Univ.),
Tadashi Miyashita (Grad. Sch. Agr. Life Sci., Univ. Tokyo)
Population dynamics of the introduced snapping turtle using a matrix model

Growth patterns of Geoemyda japonica (Reptilia: Geoemydidae) in the Janagusuku area,
northern part of Okinawajima Island, Japan: a mark-and-recapture study

Diving behavior of red-eared sliders and Reeves' pond turtles in relation to competition between
and within species

P32 *Takahiro Shimada (Dept. Ecosystem Stud., Tokyo Univ.), Naoki Kamezaki (Sea Turtle Assoc. Jpn./
Dept. Ecosystem Studies, Tokyo Univ.), Shigeru Aoki (Dept. Ecosystem Stud., Tokyo Univ.)
Is stable isotope analysis an effective method for the study of feeding ecology of marine turtles?

P33 *Yohei Yamasaki, Yoshihisa Mori (Dept. Anim. Sci., Teikyo Univ. Sci. Technol.)
Environmental condition for emergence of Japanese odd-scaled snake, Achalinus spinalis, in
Uenohara, Yamanashi Prefecture, Japan

P34 Koji Tanaka (Dept. Zool., Grad. Sch. Sci., Kyoto Univ.)
Does thermal advantage of melanism produce size differences in a color-dimorphic snake
Elaphe quadrivirgata?

Kangwon Natl. Univ.)
Comparing body mass and the size of home range of Korean water snake, Elaphe rufodorsata
before and after laboring

Influence of incubation temperature on locomotor performance of two Gekko species (Reptilia:
Gekkonidae)