

PROGRAMME & ABSTRACTS











University of Salzburg 18th - 23rd September 2017

Chief Patron:

Astrid Rössler, Vice Governor of the State of Salzburg

Organising Institutions:

University of Salzburg, Department of Ecology and Evolution ÖGH Austrian Society of Herpetology Haus der Natur Salzburg, Museum of Nature and Technics Herpetological Work Group - Haus der Natur

Local Organising Committee:

Andreas Maletzky, Peter Kaufmann, Dominik Ankel, Tina Hametner-Rieder, Dorothee Hoffmann, Bernadette Kaufmann, Werner Krupitz, Alexander Niedrist, Cvetka Lipovnik, Maria Müller, Rainer Mysliwietz, Ursa Pretzl, Valerie Saliger, Mario Schweiger, Marcus Weber

Scientific Committee:

Böhme Wolfgang (Bonn, Germany) Cogălniceanu Dan (Constanta, Romania) Corti Claudia (Firenze, Italy) Crnobrnia-Isailović Jelka (Niš. Serbia) Fritz Uwe (Dresden, Germany) Gollmann Günter (Vienna, Austria) Hödl Walter (Vienna, Austria) Kaliontzopoulou Antigoni (Vairao, Portugal) Kaufmann Peter (Salzburg, Austria) Lötters Stefan (Trier, Germany) Maletzky Andreas (Salzburg (Austria) Mikulíček Peter (Bratislava, Slovak Republic) Poboljšaj Katja (Ljubljana, Slovenia) Steinfartz Sebastian (Braunschweig, Germany) Ursenbacher Sylvain (Neuchâtel, Switzerland) Vences Miguel (Braunschweig, Germany) Vörös Judit (Budapest, Hungary)

Congress Logo:

Valerie Saliger

19th SEH European Congress of Herpetology, University of Salzburg, Salzburg, Austria, September 18th-23rd 2017. Programme & Abstracts. 284 pp

Print: Facultas Verlags- und Buchhandels AG Wien

Who is who in *Gloydius* complex? New insights from extended geographical sampling and consequences for venom biochemistry research

Evgeniy Simonov¹, Daniel Melnikov², Daniel Jablonski³, Artem Kidov⁴ & Nikolay Orlov²

¹Institute of Systematics and Ecology of Animals, Siberian Branch of Russian Academy of Sciences Frunze Str. 11, 630091 Novosibirsk, Russia

²Zoological Institute, Russian Academy of Sciences, Universitetskaja nab. 1, 199034 St.Petersburg, Russia ³Comenius University in Bratislava Mlynská dolina, Ilkovičova 6, 842 15 Bratislava, Slovakia

⁴Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, Timiryazevskaya Str. 49, 127550 Moscow, Russia

E-mail: ev.simonov@gmail.com

The pit-vipers of *Gloydius halys-intermedius* complex are a group of medically important venomous snakes widespread in Asia. The biochemistry of their venom components were extensively studied during the last decades. However, this species complex has been remarkable by very complicated taxonomy till recent time. It raised a lot of confusion, especially in biomedical and biochemical publications. We reviewed taxonomy, systematics and distribution of the members of the complex, based on our original and GenBank data on variability of mtDNA markers. Geographically broad sampling was achieved, including the type localities. The final dataset comprised of 186 individuals.

The following species should be recognized based on combined genetic and morphological evidences. *G. caraganus*: steppe and semi-desert zones of Kazakhstan and Uzbekistan, including northern areas of Kyrgyzstan and Turkmenistan; *G. caucasicus*: Talysh, Elburz, and Kopet-Dag mountains; *G. changdaoensis*: Changshan Islands and adjacent mainland; *G. cognatus*: from east Kyrgyzstan and Kazakhstan to central and northeast China, including Mongolia and Russia (Republics of Altai and Tuva); *G. halys*: South Siberia (Russia), part of northeast Mongolia and northeast China; *G. rickmersi*: known from Alai valley only (Kyrgyzstan); *G. shedaoensis*: Shedao Island and adjacent mainland; *G. stejnegery*: China (Beijing, Liaoning, Shaanxi and Shanxi provinces). *G. lijianlii* must be synonymised with *G. changdaoensis*, while *G. saxatilis* is synonym of *G. intermedius*. It is highly recommended to use molecular markers to assist morphological identification of specimens from the territories potentially inhabited by multiple species of this diverse group.

ffee*-H*lchemie Ka







