

**Annual Report 2010, Naturalis Research  
Department of Terrestrial Zoology – Reptiles and Amphibians**

Researcher / Curator

Arntzen, Dr. J. W. (Pim)

Associates

Galis, Dr. F. (Frietson)

Ross, F. D. (Franklin)

Sparreboom, Dr. M. (Max)

Vonk, Drs. F. (Freek)

Ziermann, Dr. J. M. (Janine)

PhD-students

Espegueira Themudo, G., (Goncalo), PhD-student in combination with University of Porto, Portugal (co-supervisor Prof. N. M. Ferrand, CIBIO, Vairao)

Wielstra, B. (Ben), PhD-student in combination with the ITC, Enschede (co-supervisors Dr. B. Toxopeus and Prof. A. Skidmore)

Students

Meilink, W. (Willem), Institute of Biology, University of Leiden

Olijerhoek, J. (Jan), Institute of Biology, University of Leiden, co-supervisor Dr. T. van Dooren

Otto, E. (Emma), Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, co-supervisors Dr. R. Vonk, Dr. K. Vrieling and Mr. M. Eurlings

Academic visitors and fellows

Bancila, R. (Raluca), Martin Fellow, from University of Bucarest, Romania (6/9-26/11), presentation 23/11: Genetic variability of two closely related species in a spatially and temporally isolated system including isolation and characterization of microsatellite markers and cross-priming testing.

Godoy, J. (Jose), Estación Biológica Doñana, CSIC, Sevilla, Spain (9-11/3), presentation 10/3: A temporal approach to conservation genetics: historical patterns in Iberian emblematic species.

Hartel, T. (Tibor), Temminck Fellow, from Mihai Eminescu Trust, Sighisoara and University of Constanta, Romania (6/9-5/10).

Wallis, G. P. (Graham), University of Otago, Dunedin, New Zealand (9/4-11/6).

Colloquium 20/4: Genetic analysis of hybrids between marbled and crested newts *Triturus* and *Mayenne* revisited.

Wiens, J. J. (John), Temminck Fellow, from Department of Ecology and Evolution, Stony Brook University, New York, USA (17-19/2 and 23/8-23/9). First NCB Naturalis Lecture 18/2: Reconstructing and using the Tree of Life: phylogenomics, fossils, and global biodiversity patterns.

### Presentations

University of Bielefeld, Department of Animal Behaviour, host Dr. S. Steinfartz. Seminar 11/11: Dispersal and distribution patterns in *Triturus* newts across Europe.

University of Amsterdam, Institute of Biodiversity and Ecosystem Dynamics, host Prof. W. Bouten. Presentation 8/12: Amphibian dispersal as a function of the landscape.

### Fieldwork

Nisa, Portugal, 13/3-4/4 (with M. Sparreboom)

Mayenne, France, 22/4-2/5 (with G. Wallis & T. Burke)

Balkans, various countries, 5/5-26/5 (with B. Wielstra and J. Crnjobrnja-Isailovic)

Autreppes, France, 10-14/9 (with T. Hartel, E. Otto and J. J. Wiens)

Porto, Portugal, 28/10-3/11 (with J. Ziermann & M. K. Richardson)

### Meetings

ConGRESS kick-off meeting at Antwerpen, 27-28/5

### Thesis examinations

PhD-thesis defense by G. Espregueira Themudo, 10/3, Title: Newts in time and space - the evolutionary history of *Triturus* newts at different temporal and spatial scales.

### Education

Contributions to the IBL MSc.-course 'Trends in Time and Space' with lectures and a practical on 'Hybrid zones' on 8/11.

### Editorial and review

Editor in chief of Contributions to Zoology. Reviewer for the following bodies: Amphibia-Reptilia, Animal Conservation, Acta Zoologica, Hamadryad, Journal of Herpetology, Journal of Zoology, Molecular Ecology, Molecular Phylogenetics and Evolution, Turkish Journal of Zoology and Zoologischer Anzeiger. Reading committee for a PhD.-thesis submitted at the University of Leiden. Reviewer for the Austrian Science Fund.

### Applications for funding

Conservation Genetic Resources for Effective Species Survival (ConGRESS - ENV.2009.5.1.0.2). Principal Investigator Prof. M. Bruford, Cardiff, UK. Allocated.

NWO-ALW open program application on 'Lion (*Panthera leo*) phylogeography', Principal investigator Dr. H. H. de Iongh, researcher Drs. L. Bertola, CML-University Leiden. Allocated.

The evolution of the cranial skeleton in European newts. Co-applicant of a grant proposal by Nazan Tazkin, supervised by Prof. K. Olgun, Aydin University, Aydin, with the Turkish Research Organization TUBITAK. Declined.

Facilitated rivalry: how females inflate male competition. Co-applicant of a grant proposal with NWO by Dr. J. M. Koene and Drs. B. Bruning, Free University, Amsterdam. Declined.

The missing link in evolutionary and biogeographical studies of flatworms (Platyhelminthes): a time scale. Co-applicant of a grant proposal with by Dr. R. Sluys, IBED, Amsterdam. Declined.

Publications impact - Web of Science 2045 citations (increase of 240 relative to the same time last year), Hirsch-Index 26

## **Frietson Galis**

### International Collaborations

Prof. Russell Lande, Royal Society Professor, Imperial College, Silwood Park, UK

Prof. John Opitz, University of Utah, Salt lake City, USA

Prof. Lauren Chapman, McGill University, Montreal, Canada

Dr. I. van der Sluys, McGill University, Montreal, Canada

Prof. Stefan Van Dongen, University of Antwerp, Belgium

Prof. David Carrier, University of Utah, Salt lake City, USA

### Collaborations in the Netherlands

Dr. Annemie Ploeger, Developmental Psychology, Department of Psychology, University of Amsterdam

Dr. Liliane Wijnaendts, Clinical Pathology, Free University Medical Center, Amsterdam

Dr. Bauke Ylstra, Micro-array core facility, Cancer Centre, Free University Medical Centre, Amsterdam

Dr. Marcel Mannens, Clinical Molecular Genetics, Amsterdam Medical Centre, Amsterdam

Dr. Jet Blik, head DNA diagnostics laboratory of Clinical Genetics, Amsterdam Medical Centre, Amsterdam

Dr. Mariëlle Alders, Clinical Genetics, Amsterdam Medical Centre, Amsterdam

Dr. P. Nikkels, Paediatric Pathology, Utrecht Medical Centre, Utrecht

Prof. Johan A. J. Metz, Mathematical Biology, University of Leiden

Dr. Tom J. M. van Dooren, NCB Naturalis, Leiden

### Editorial boards

Associate editor of Evolution (until May), Editorial board Journal of Experimental Zoology B. (Molecular Developmental Evolution), The Open Evolution Journal, Animal Biology, Embryology Domain of Scientific World

### Boards and committees of Societies

President of the European Society for Evolutionary Developmental Biology (EED), re-elected in 2010, Co-Chair of the scientific committee for the 3rd meeting of the EED in Paris 2010

### Study visits

Two weeks to the University of Utah, Health Sciences Centre and School of Medicine (March 2010)

Two days at the Royal Belgian Institute of Science, Brussels, Belgium (December 2010)

Two days at the Royal Africal Museum in Tervuren, Belgium (November 2010)

One day at the Natural History Museum in London, UK (November 2010)

### Applications for funding

Synthesis proposal for two week study at the Royal Museum for Central Africa Tervuren to study mammalian skeletons - Allocated

Synthesis proposal for a one week study at the Natural History Museum in London to study mammalian skeletons - Allocated

### Academic visitors

Prof. Russell Lande, Royal Society Professor, Imperial College, Silwood Park, UK

Prof. John McNamara, University of Bristol, United Kingdom

Dr. R. Bateman, Royal Kew Gardens, United Kingdom

Prof. Stefan van Dongen, University of Antwerp, Belgium

### Teaching and supervision

Post-doc - Dr. Jessica Bots, co-supervisor Prof. S. Van Dongen, University of Antwerp

Msc-students - I. Varela and S. Schnörr, Institute of Biology, University of Leiden

Reviewer for - Evolution, Evolutionary Biology, Journal experimental Zool. B, American Journal of Medical Genetics, Journal Animal Biology, German National Funding Agency DFG, French National Funding Agency ANR

### Invited talks

University of Utah Health Sciences Center and School of Medicine, Pediatric Grand Rounds lecture (broadcasted to rural health sites throughout Utah), March 2010.

University of Utah Health Sciences Center and School of Medicine, Medical Genetics Seminar, March 2010

Workshop on 'Evolutionary Constraints' of the Zoological Society in the London Zoo, November 2010

Workshop 'Children Research' VU Medical Centre, Amsterdam, December 2010

### Publications impact (per 10/12/2009)

Citations Web of Science 918 (last year 850)

H-index Web of Science 17 (16 last year)

## **Franklin Ross**

### Students

External examiner of Mr. R. de Boer, candidate for the Master of Wildlife Management degree at the University of Pretoria, Republic of South Africa (Prof. W. van Hoven supervisor). Thesis title: African dwarf-crocodile scale-counts evaluated as supporters of *Osteolaemus tetraspis osborni* (Reptilia, Crocodylia, Crocodylidae)

Continuing graduate student activity with R. Zoer (MSc.-student at Pretoria) and A. Pearcy (PhD.-student at Leiden University)

## **Max Sparreboom**

### Presentations

Koreanische und japanische Urodelen – Ein Reisebericht, DGHT-AG Urodela, Gersfeld , 15/10

Bogaerts, S., F. Pasmans, A. Martel, T. Nguyen Thien & M. Sparreboom: Neues über Krokodilmolche aus Vietnam, DGHT-AG Urodela, Gersfeld 16/10

### Fieldwork

Excursion to SW Turkey to study *Lissotriton vulgaris*, *Triturus karelinii* and species of *Lyciasalamandra* during the breeding season, 27/12/09-3/1/10

Excursion to Portugal to study reproductive behaviour of *Triturus marmoratus* and *T. pygmaeus*, and *Pleurodeles waltl*, 13/4-2/5

Excursion to Northern Vietnam to study *Tylotriton vietnamensis* and *T. asperrimus*, 8-22/5

Manuscripts reviewed for - Amphibia-Reptilia, Zoological Science, Animal Cells and Systems

## **Freek Vonk**

Fieldwork - Expeditions to Australia (Jan/Feb/March), Zambia and Tanzania (October) to collect venom samples

### Presentations

Next Generation Sequencing in Biodiversity Studies on 9/12 for the Netherlands Centre for Biodiversity Naturalis, Leiden

Opening of the new Caiman enclosure at Scheveningen on 31/3

Grants - The Herpetofauna Foundation and NCB Naturalis

Manuscripts reviewed for - Applied Herpetology, Contributions to Zoology, Proceedings Royal Society B, European Journal of Biology, Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, Nature Communications

Student – Kerkkamp, H. (Harald), working on snake genomics

Science communication - many different media appearances from DWDD to National Geographic to children's television to radio. For a full list see:

<http://tinyurl.com/26nfh13>

## **Janine M. Ziermann**

### Students

Guliker, M. (Martijn), Literature survey - finished August 2010

Kist, N. (Nico) BSc., Transcriptomics in *Triturus carnifex* - started November 2010

Ouwendijk, M. (Marlous) MSc., Malformations and heart development in the Italian crested newt (*Triturus carnifex*) caused by Chromosome no.1 syndrome - finished October 2010

Stolk, B. (Bas) MBO, Hox C9 and D9 expression during development of *Triturus carnifex* - started September 2010

Grants - NCB Naturalis call ultra high-throughput sequencing 2010: Transcriptome analysis in a representative of the Salamandridae, J. W. Arntzen, J. W., M. K. Richardson, B. Wielstra and J. M. Ziermann (PS2010.07)

Fieldwork

Tonnetjesdelle de Veluwe, The Netherlands 27/4 and 18/5  
Porto, Portugal 29/10-1/11

Manuscripts reviewed for - Evolution & Development, Zoological Science

Presentations

Salamander Evo Devo (talk for Master-Orientation Course, IBL, Leiden University) 21/9  
Heterochrony in human Evo Devo (talk for Human Evolution Course, IBL, Leiden University) 21/10  
Ziermann J. M., M. K. Richardson, J. W. Arntzen: Salamander transcriptome sequencing for evo devo research. Next Generation Sequencing mini-symposium. NCB Naturalis, Leiden, Netherlands 09/12

**Team productivity over 2010**

Papers in SCI-listed journals:

- Arntzen, J. W. & B. Wielstra** (2010) Where to draw the line ? A nuclear genetic perspective on proposed range boundaries of the crested newts *Triturus karelinii* and *T. arntzeni*. *Amphibia-Reptilia* 31: 311-322.
- Arntzen, J. W.**, T.A. Burke & R. Jehle (2010) Estimating the propagule size of a cryptogenic population of crested newts (*Triturus cristatus*). *Animal Conservation* 13 (supplement 1): 74-81. DOI 10.1111/j.1469-1795.2009.00331.x.
- Bancilă, R., I. van Gelder, E. Rotteveel, J. Loman & J. W. Arntzen** (2010) Fluctuating asymmetry is a function of population isolation in island lizards. *Journal of Zoology* 282: 266-275. DOI: 10.1111/j.1469-7998.2010.00736.x.
- Dongen, S. van., C. M. A. ten Broek, L. C. D. Wijnaendts & **F. Galis** (2010) Human fetuses and limb asymmetry: no evidence for directional asymmetry and support for fluctuating asymmetry as a measure of developmental instability. *Animal Biology* 60: 169-182.
- Galis, F., J. W. Arntzen & R. Lande** (2010) Dollo's Law and the irreversibility of digit loss in *Bachia*. *Evolution* 64: 2466-2476. DOI:10.1111/j.1558-5646.2010.01041.x.
- Galis, F., C. M. A. ten Broek, S van Dongen & L. C. D. Wijnaendts** (2010) Sexual dimorphism in the prenatal digit ratio (2D:4D) in humans. *Archives of Sexual Behaviour* 39: 57-62.

- Hartel, T.,** O. Schweiger, K. Öllerer, D. Cogălniceanu & **J. W. Arntzen** (2010) Amphibian distribution in a traditionally managed rural landscape of Eastern Europe: probing the effect of landscape composition. *Biological Conservation* 143: 1118-1124.
- Hartel, T.,** S. Nemes, K. Öllerer, D. Cogălniceanu, C. I. Moga & **J. W. Arntzen** (2010) Using connectivity metrics and niche modeling to explore the occurrence of the northern crested newt (*Amphibia*, *Caudata*) in a traditionally managed landscape. *Environmental Conservation* 37: 195-200. DOI:10.1017/S037689291000055x.
- Ploeger, A. & **F. Galis** (in press) Evolutionary approaches to autism: an overview and integration. *McGill Journal of Medicine*.
- Ploeger, A., M. E. J. Raijmakers, H. L. J. van der Maas & **F. Galis** (2010) The association between autism and errors in early embryogenesis. *Biological Psychiatry* 67: 602-607.
- Ploeger, A. & **F. Galis** (in press) Evo devo and cognitive science. *Cognitive Science*.
- Siang, A. S., R. Doley, **F. J. Vonk** & R. M. Kini (2010) Transcriptomic analysis of the venom gland of the Red-headed krait (*Bungarus flaviceps*) using expressed sequence tags. *BMC Molecular Biology* 11: 24.
- Vonk, F. J.,** K. Jackson, R. Doley, F. Madaras, P. J. Mirtschin & N. Vidal (in press) Snake venom: from fieldwork to the clinic. *BioEssays*.
- Vörös, J. & **J. W. Arntzen** (2010) Weak population structuring in the Danube Crested newt, *Triturus dobrogicus*, inferred from allozymes. *Amphibia-Reptilia* 31: 339-346.
- Wielstra, B., G. Espregueira Themudo, Ö. Güclü, K. Olgun, N. A. Poyarkov & J. W. Arntzen** (submitted) Cryptic crested newt diversity at the Eurasian transition. *Molecular Phylogenetics and Evolution* 56: 888-896.

Peer-reviewed but not SCI

- Bogaerts, S., F. Pasmans, **M. Sparreboom** & M. Biricik (2010). Observations on a breeding population of *Neurergus strauchii barani* Öz, 1994 (*Caudata*: *Salamandridae*). *Salamandra* 46: 55-58.
- Bogaerts, S., F. Pasmans, **M. Sparreboom** & A. Almasri (2010). Verbreitung, Ökologie und Gefährdung des Kleinasiatischen Feuersalamanders, *Salamandra infraimmaculata* und des Südlichen Bandmolchs, *Ommatotriton vittatus* in Nordwest Syrien. *Amphibia* 9: 5-6.
- Hoogmoed, M. S., M.E. Gassó Miracle & L.W. van den Hoek Ostende** (2010) Type specimens of recent and fossil Testudines and Crocodylia in the collections of the Netherlands Centre for Biodiversity Naturalis, Leiden, the Netherlands. *Zoologische Mededelingen* 84: 159-199.
- Lanza, B., **J. W. Arntzen** & E. Gentile (2010) Vertebral numbers in the *Caudata* of the western Palearctic (*Amphibia*). *Atti Museum Civ. Stor. Nat. Trieste* 54: 3-114.
- Ross, F.D.** & A. Percy (2009) Maximum width of adult cranium. *Crocodile Specialist Group Newsletter, IUCN* 28 (4): 15.
- Ross, F.D.** (2010) *Crocodylus suchus* in trouble again. *Crocodile Specialist Group Newsletter, IUCN* 29 (1): 17-18.

- Ross, F.D.** (2010) Do crocodiles ever overturn crocodiles? Crocodile Specialist Group Newsletter, IUCN 29 (1): 18-19.
- Ross, F.D.** (2010) Seba's gender correctness now trivia. Crocodile Specialist Group Newsletter, IUCN 29 (1): 19.
- Ross, F.D.** & R. P. Zoer (in press) Zoer (2010) *Osteolaemus septum* correction. Crocodile Specialist Group Newsletter, IUCN
- Ross, F.D.**, E.-E. Kischlat, E.-E. & M. P. A van Tomme (in press) Cutting a type into pieces. Crocodile Specialist Group Newsletter, IUCN
- Ross, F.D.**, E.-E. Kischlat, E.-E. & M. P. A van Tomme (in press) Geoffroy (1809) is before Bory (1824). Crocodile Specialist Group Newsletter, IUCN
- Ross, F.D.**, M. P. A. van Tomme & E.-E. Kischlat (2010) Order Crocodylia Loveridge, 1946, recommended. Crocodile Specialist Group Newsletter, IUCN 29 (3): 25-26.
- Ross, F.D.**, M. P. A. van Tomme & E.-E. Kischlat (2010) Capinés Kayman and *Crocodylus niloticus*. Crocodile Specialist Group Newsletter, IUCN 29 (3): 26-27.
- Sparreboom, M.**, Nguyen Thien Tao, S. Bogaerts, F. Pasmans & A. Martel (in press) *Tylototriton asperrimus* (Black Knobby Newt) Reproduction. Herpetological Review.

#### Book chapters

- Arntzen, J. W. (2010) Préface, in: Baudin, B. (2010) Amphibiens et Reptiles de la Mayenne. Description. Identification. Répartition. Mayenne Nature Environnement, Laval.
- Sparreboom, M.** (2010) Forty-one new species entries on Website 'Salamanders of the Old World' at <http://science.naturalis.nl/salamanders>.
- Sparreboom, M.** (2010) *Andrias japonicas*. Grzimek's Animal Life.

#### Papers submitted

- Arntzen, J. W.**, K. Grossenbacher and I. Martinez-Solana (submitted) Introduction to the genus *Alytes* (introductory chapter for 'Handbuch Amphibien und Reptilien Europas').
- Bots, J., L. C. D. Wijnaendts, S. Delen, S. van Dongen, K. Heikinheimo & **F. Galis** (submitted) Analysis of cervical ribs in a series of human fetuses.
- Curado, N., T. Hartel & J. W. Arntzen** (submitted) Amphibian pond loss as a function of the landscape – a case study over three decades in northern France.
- Espregueira Themudo, G. & J. W. Arntzen** (submitted) Current gene flow across a newt hybrid zone follows local ecological conditions.
- Hartel, T.**, K. Öllerer, A. Baldí, P. Tryjanowski, C. Moga, D. Cogălniceanu, C. Gil, D. Rusti & **J. W. Arntzen** (submitted) Spatial ecology in Central - Eastern Europe: is the habitat - matrix approach useful to conserve biodiversity ?
- Hartel, T.**, K. Öllerer, A. Baldi, P. Tryjanowski, D. Cogălniceanu, C. Gil, C. Moga & **J. W. Arntzen** (submitted) A message from rural landscapes of Central-Eastern Europe.

- Hartel, T., K. Öllerer, A. Báldi, P. Tryjanowski, D. Cogălniceanu, C. Gil, C. I. Moga, Dorel Ruști & J. W. Arntzen** (submitted) Biodiversity conservation in farmlands of Central and Eastern Europe: beyond Natura 2000 sites.
- Hartel, T., S. Nemes, K. Öllerer, D. Cogălniceanu & J. W. Arntzen** (submitted) Fragmentation models may not accurately predict the distribution of amphibians in traditionally managed rural landscapes of Eastern Europe: the case of the Northern Crested Newt *Triturus cristatus*.
- Laurin, M., **J. W. Arntzen**, A. M. Báez, A. M. Bauer, S. E. Evans, A. Kupfer, D. Marjanović, H. Müller, L. Olsson, J.-C. Rage & D. San Mauro (submitted). *Amphibia* C. Linnaeus 1758, converted clade name.
- Laurin, M., **J. W. Arntzen**, A. M. Báez, A. M. Bauer, S. E. Evans, A. Kupfer, D. Marjanović, H. Müller, L. Olsson, J.-C. Rage & D. San Mauro (submitted). *Lissamphibia* E. Haeckel 1866, converted clade name.
- Reumer, J.W.F. & **F. Galis** (submitted) An unusually high incidence of cervical ribs in mammoths (*Mammuthus primigenius*).
- Wielstra, B. & J. W. Arntzen** (submitted). A mitogenomic phylogeny illuminates the evolution of body shape differentiation in a rapid radiation: the crested newt *Triturus cristatus* superspecies.
- Varela Lasheras, I., A. J. Bakker, S. van der Mije, J. van Alphen & **F. Galis** (submitted) Breaking evolutionary and pleiotropic constraints in mammals. On sloths, manatees and homeotic mutations.
- Vonk, F. J., C. V. Henkel, H. P. Spaink, H. J. Jansen, R. Manjunatha Kini, G. E. E. J. M. van den Thillart, M. Boetzer, W. Pirovano, R. P. H. Dirks, J. W. Arntzen & M. K. Richardson** (submitted) Identification of venom genes in the King cobra genome.
- Wiens, J. J., **M. Sparreboom & J. W. Arntzen** (submitted) Evolution of a sexually selected and plastic novelty: origins and losses of crests in newts.

#### Student reports

- Lammers Y.** (2009, not listed last year) Nuclear biogeography – an exercise into the historical biogeography of the human alpha satellite.
- Olijerhoek, J. L. G.** (2010) Chromosome differentiation in the genus *Austrolebias*.

#### Posters and conference abstracts

- Lammers Y. & J. W. Arntzen** (2010) Nuclear biogeography – an exercise into the historical biogeography of the human alpha satellite. Hogeschool Leiden. January 26, 2010.
- Ross, F. D. & A. Percy, A.** (2010) Orinoco crocodile pictures needed for illustrating diagnostic characters in keys, and John T's photos might include them. Presented at the 20th Working Meeting of the IUCN (SSC) Crocodile Specialist Group at Manaus, Brazil, on 13-17 September, 2010, by Ashley Percy. Abstract published on page 98 of the guide to the meeting.

- Vörös, J., P. Mikulicek, A. Major, E. Recuero & **J. W. Arntzen** (2010). Molecular phylogeography of the Danube crested newt, *Triturus dobrogicus* (Kiritzescu 1903). Iberian Herpetological Meeting, Sevilla, 8/12.
- Wallis, G. P.**, R. Jehle & **J. W. Arntzen** (2010) Nuclear-mitochondrial incompatibilities implied by asymmetric viability of reciprocal-cross hybrids between crested and marbled newts *Triturus cristatus* and *T. marmoratus*). Society for Research on Reptiles & Amphibians, New Zealand.
- Ziermann J. M.**, **J. W. Arntzen** & M. K. Richardson (2010). The transcriptome of an embryo of *Triturus carnifex* (Salamandridae, Caudata). European Society for Evolutionary Developmental Biology in Paris, France. p 274 (Abstract).

#### Publications by third parties

- Bohme, W. & A. Koch (2010) On the type selection and re-typification of two monitor lizard taxa (Squamata: Varanidae): *Monitor bivittatus celebensis* Schlegel, 1844 and *Monitor kordensis* Meyer, 1874; with some comments and corrections on other name-bearing type specimens. *Zootaxa* 2440: 60-68.
- David, P. & G. Vogel (2010) A new species of the Natricine snake genus *Amphiesma* from Borneo (Squamata: Natricidae). *Russian Journal of Herpetology* Vol. 17, No. 2, pp. 121 – 127.
- Frazier, J. & P. Matyot (2010) On the identity of Monsieur Dussumier's Dutch tortoise and the lectotype of *Testudo dussumieri* Gray, 1831. *Zootaxa* 2665: 29–50.
- Goverse, E., M.L. Hilterman, P. Bonnet & R. de Ruiter (2010) De lederschildpad: spectaculaire nieuwe waarnemingen in Nederland en een statusoverzicht. *RAVON* 35: 5-10.
- Koch, A., M. Gaulke & W. Bohme (2010) Unravelling the underestimated diversity of Philippine water monitor lizards (Squamata: *Varanus salvator* complex), with the description of two new species and a new subspecies. *Zootaxa* 2446: 1-54.
- Koch, A. & W. Bohme (2010) Heading east: a new subspecies of *Varanus salvator* from Obi island, Maluku Province, Indonesia, with a discussion about the easternmost natural occurrence of Southeast Asian Water monitor lizards. *Russian Journal Herpetology* 17: 299-309.
- Koch, A., M. Auliya & T. Ziegler (2010) Updated checklist of the living monitor lizards of the world (Squamata: Varanidae). *Bonn Zoological Bulletin* 57: 127-136.
- Mols, B. (2010) CATCH opent ons culturele verleden. *Hypothese* 16: 8-11.
- Rooijen, J. van & G. Vogel (2009) A multivariate investigation into the population systematics of *Dendrelaphis tristis* (Daudin, 1803) and *Dendrelaphis schokari* (Kuhl, 1820): revalidation of *Dendrophis chairecacos* Boie, 1827 (Serpentes: Colubridae). *Herpetological Journal* 19: 193-200.
- Rooijen, J. van & G. Vogel (2010) On the discovery and origin of a Javan population of the Indochinese colubrid snake *Dendrelaphis subocularis* (Boulenger, 1888): a multivariate

study. *Contributions to Zoology* 79: 85-92. Weijola, V.S-Å & S.S. Sweet (2010) A new melanistic species of monitor lizard (Reptilia: Squamata: Varanidae) from Sanana Island, Indonesia. *Zootaxa* 2434: 17–32.

Compiled by J. W. Arntzen, Leiden, 24/12/2010