

Curriculum Vitae

Dr. Salem M. Busais

Objective:

I obtained my doctoral degree in natural sciences in TU- Braunschweig, Germany. My study involved molecular laboratory research work, including DNA extraction, PCR amplification and sequencing. I also applied phylogenetic programs such as PAUP and MEGA, in addition to experience in statistical programs.

I have great interest in Arabian fauna and the biodiversity of this area which encourages me to continue research in this field. I find in myself the ability to achieve it and assist to fill the existing gap in this area of research.

Research Interests:

- Conducting taxonomic & biodiversity studies on vertebrates in general & reptiles in particular in the Arabian Peninsula & the Middle-East using modern molecular techniques. In addition to the statistical analysis.
- Preparing ecological studies & researches on animals.
- Preparing & assisting in studies related to protected areas.

EDUCATION:

Degrees:

PhD Zoology (2011), Biology Department, Technical University of Braunschweig, Germany. Thesis title: (Taxonomic & Molecular Phylogeny on *Hemidactylus* in the Mainland of Yemen). Supervisor: Prof. Dr. Ulrich Joger.

MSc. Zoology (2003), Biology Department, Faculty of Science, Sanaá University, Yemen. Thesis title: (Taxonomic and Zoogeographical studies on the Snakes of Yemen). Supervisor: Prof. Dr. Masaa Al-Jumaily.

BSc. Biology (1999), Biology Department, Faculty of Science, Sanaá University.

AWARDS AND HONORS:

Awarded a DAAD Scholarship from the ‘Deutscher Akademischer Austausch Dienst’ (German Academic Exchange Service).

PROFESSIONAL EXPERIENCE:

Head of Biology Department, Aden University, Yemen, since December 2014– till now.

(2014 – till now) Assistance Professor, Biology Department, Aden University, Yemen.

(2011 –2014) Assistance Professor, Biology Department, Hail University, KSA.

(2004 –2007) Lecturer, Biology Department, Aden University, Yemen.

(2003 –2004) Lecturer, Biology Department, Faculty of Science, Sanáa University, Yemen.

(2001 –2003) Teacher Assistant, Biology Department, Faculty of Science, Sanaá University.

SCIENTIFIC ACTIVITIES & PUBLICATIONS:**Conferences**

- The 29th meeting of Saudi Biological Society on “Environment & Development in the Gulf Region” (25-27 February 2014), Organized by University of Dammam. The following scientific paper was presented: **New record of Jan’s Cliff Snake “*Platyceps rhodorachus*“ from Hail province-Saudi Arabia with a revised check list of snakes in the region.**
- Conference on Biodiversity Conservation in the Arabian Peninsula (2012) - The Environment and Protected Areas Authority (EPAA), Sharjah, United Arab Emirates.
- Symposium on Herpetological Paleontology–PalHerp(8-9 May 2010). State Natural History Museum of Braunschweig, Germany.
- The 4th Saudi Science Conference (21-24 March 2010) - Taibah University, Al-Madinah Al-Munawwarah, Kingdom of Saudi Arabia. The following scientific paper was presented: **Taxonomy and Molecular Phylogeny of *Hemidactylus* in Yemen.**
- Phylogenetic Symposium (21-22 Nov. 2009). State Natural History Museum of Braunschweig, Zoological Institute, Technical University of Braunschweig, Germany.
- Fourth Scientific Symposium (2007). Organized by Yemeni Biological Society, Sana’a, Yemen.

- The 12th International Conference for Arab Biologists (19-24 November 2005). Organized by Al-Hudaidah University, Yemen. The following scientific paper was presented: **Methods of Benefiting from Non-poisonous Snakes for Biological Control in Yemen.**
- Third Scientific Symposium (2005). Organized by Yemeni Biological Society, Seiyon, Yemen. The following scientific paper was presented: **A Contribution to the Reptiles of Yemen: Distribution Study of Dangerous Snakes in Yemen.**
- Science conference (2004). Organized by Yemeni Scientific Research foundation, Sanaá, Yemen.
- Science conference (2003). Organized by Yemeni Scientific Research foundation, Seiyon. The following scientific paper was presented: (2003). **The Status of Colubrid Snakes in Yemen.**
- Science conference (2002). Organized by Yemeni Scientific Research foundation, Taiz, Yemen. The following scientific paper was presented: **Poisonous Snakes of Yemen.**
- Science conference (2001). Organized by Yemeni Scientific Research foundation, Sanaá, Yemen.

Workshops:

- International Workshop on Synoptic Biogeography of Socotra Archipelago, Yemen (21 – 23 October 2007). Sana'a University, Sana'a.
- A Workshop on Endangered Species of Animals & Plants in the Yemeni Environment (August 2006). Public Authority for Environmental Protection, Sana'a, Yemen.
- A Workshop on Genetically Modified Food Crops “Advantages & disadvantages” (January 2006). Aden University, Aden.
- A Workshop on the Introduction of Ramsar Convention on Wetlands & the Immigrating Groups (December 2005). Public Authority for Environmental Protection, Aden.
- A Media Workshop on Biosafety & an Introduction to Cartagena Protocol (January 2004). Public Authority for Environmental Protection, Sana'a Yemen.

Scientific Publications:

- **Busais**, Salem. M. Vipers and Serpents in Aden (under publication).
- Al-Shammari, A., **Busais**, S. & Ibrahim, A. (in press). Two new records of colubrid snakes with an annotated checklist of snakes in Hail Province, KSA.
- **Busais**, Salem (2014). Descriptive study with Identification Keys to the Species of Snakes of Aden. Journal of Aden University for Applied & Natural Sciences, vol. 9.
- Jiří Smíd, Jiří Moravec, Lukáš Kratochvíl, Václav Gvoždík, Abdul Karim Nasher, **Salem M Busais**, Thomas Wilms, Mohammed Y. Shobrak, Salvador Carranza (2013). Two newly recognized species of *Hemidactylus* (Squamata, Gekkonidae) from the Arabian Peninsula and Sinai, Egypt. *ZooKeys*, 355: 79–107.
- Desouky, Mahmoud M. and **Busais**, Salem (2012). Phylogenetic relationships of the land snail; *Eobania vermiculata* (Müller, 1774) from Egypt and Saudi Arabia. A combined morphological and molecular analysis. *The Journal of Basic & Applied Zoology*, 65, pp. 144-151.
- **Busais**, Salem M. and Joger, Ulrich (2011). Three new species and one new subspecies of *Hemidactylus* Oken, 1817 from Yemen (Squamata, Gekkonidae). *Vertebrate Zoology*, 62 (2), 267–280. Germany.
- **Busais**, S. & Joger, U. (2011). Molecular Phylogeny of *Hemidactylus* in the Mainland of Yemen (Reptilia: Gekkonidae). *Journal of Zoology in the Middle-east*, 53: 25-34. Germany.
- **Busais**, S. & Al-Jumaily, M. A (2005). Contribution to the Reptiles of Yemen: Distribution Study of Dangerous Snakes in Yemen. *The Journal of Aden University for Applied & Natural Sciences*, vol. 9. (3): 515-524.
- **Busais**, S. M. A scientific book, Vipers & Serpents in Hail, Saudi Arabia (Under Publication).

Courses:

- Courses in processing phylogenetic programs & preparing DNA extractions (2009). The Zoological Institute (Biozentrum), Technical University of Braunschweig, Germany.
- TestDaF - Courses in the German Language (2007). Goethe Institute – Göttingen, Germany.
- Courses in the English Language (2006). Yemen American Language Institute (YALI) - Sanaá, Yemen.

- A Diploma in Computer Sciences (2002). Computer Mann. Institute - Sanaá, Yemen.
- A course in "Basicsin Laboratory Techniques" (1999). The Technical Veterinary & Agriculture Institute - Sanaá, Yemen.

Languages Spoken:

- Mother language Arabic
- English
- German

Membership in Associations & Scientific Journals:

- Saudi Biological Association.
- American Association of Yemeni Scientists and Professionals (AAYSP).
- German Arabic Cultural Center (DAKZ).
- Biodiversity Department of Ecological Studies in Aden University.
- University of Aden Journal for Natural and Applied Sciences.
- Yemeni Biological Association.
- Journal of Yemeni biological Association.

Other Scientific Activities:

- Participation in Survey of the current status of Biotechnology in Yemen. Conducted by Environmental Protection Authority, Sanaá, Yemen (2004).
- Organizing scientific exhibitions
- Instructing & training studentsto collect& stuff animal samples through scientific methods.

Software Knowledge:

- Phylogenetic Molecular Programs: CodonCodeAligner, MEGA, PAUP, TreeView, Mr. Bayes, Phylip.
- SPSS Statistics, a computer program used for statistical analysis.
- Proficient in Office XP & 2007 (MS Word, MS Excel & MS PowerPoint).
- Corel-Draw and Adobe Photoshop, image processing application.

TAXA NOVA ARABIA**REPTILIA:**

1. *Hemidactylus ulii* SMÍD, MORAVEC, KRATOCHVÍL, GVOŽDÍK, NASHER, **BUSAIS**, WILMS, SHOBRAK, CARRANZA, 2013
2. *Hemidactylus jumailiae* **BUSAIS** & JOGER, 2011
3. *Hemidactylus saba* **BUSAIS** & JOGER, 2011
4. *Hemidactylus shihraensis* **BUSAIS**& JOGER, 2011
5. *Hemidactylus yerburii montanus* **BUSAIS** & JOGER, 2011

TEACHING EXPERIENCE: (IN ADEN UNIVERSITY & HAIL UNIVERSITY)

- Chordates and Embryology ZOOL 321 (Hail University)
- Chordate Biology and Anatomy BIOL 332 (Hail University)
- Ecology & Behavior ZOOL 422 (Hail University)
- Desert Ecology BIOL484 (Hail University)
- Comparative Anatomy of Chordates (Aden University)
- Chordata (Aden University)
- Invertebrata (Aden University)
- Histology & Embryology (Aden University)

PERSONAL DATA:

Name : Salem Mahfoudh Busais
Date / Place of Birth : 1975 / State of Kuwait
Marital Status : Married with two children

References

- ☞ **Dr. Ulrich Joger:** Professor of Herpetology, Zoology Department, TU-Braunschweig, Director of State Natural History Museum, Braunschweig, Germany. E-mail address: u.joger@3landesmuseen.de
- ☞ **Prof. Dr. Wolfgang Wranik,** Universität Rostock, Institut für Biowissenschaften, Meeresbiologie. wolfgang.wranik@uni-rostock.de
- ☞ **Dr. Masaa Al-Jumaily:** Professor of Animal Ecology, Biology Department, Faculty of Science, Sana'a University, Yemen. E-mail address: dr.masaa@hotmail.com