Elaeis guineensis
©CRC990/EFForTS

2017 January

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

EFForTS is a fundamental research collaboration between the University of Göttingen in Germany and the Consortium Indonesia, consisting of Bogor Agricultural University (IPB), Jambi University (UNJA) and Tadulako University Palu (UNTAD). The Collaborative Research Center (CRC) 990 EFForTS aims at providing knowledge-based guidelines on how to protect and enhance the ecological functions and services of tropical forests and agricultural land-use systems, while improving human welfare.

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1 January : New Year 2017

28 January : Chinese New Year 2568

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Hevea brasiliensis

© Dr. Katja Rembold (B06)

2017 February

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

EFForTS research is carried out in Jambi Province, Sumatra, one of the hot spots of Indonesia's recent oil palm boom and massive land-use changes during the last 30 years. The transformation systems to be investigated include lowland rainforest as reference sites, jungle rubber (extensive rubber plantations), and intensive rubber and oil palm plantations.

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Tetraponera sp.

2017 March

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

The Central Scientific Service Project Z02 investigates the biodiversity of tree canopies across the land - use gradient from rainforest to rubber and oil palm plantations. By using knock-down canopy fogging, Z02 scientist collect arboreal arthropods such as ants and study changes in their diversity and community composition over different land-use systems in space and time. Rainforest harbor a much higher canopy arthropod diversity than monoculture plantations. The communities shift from more specialized species in forest to more generalistic species in the plantations.

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28 March : Hindu New Year “Nyepi”

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Oribatid mite

© Dr. Katja Domes (B08)

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

2017 April

Scientific Project B08 investigates changes in the structure and functioning of the belowground system. Oribatida belong to soil mesofauna. The known species of oribatida predominantly feature oriental or pantropical distribution with low numbers of cosmopolitan species. A large number of the species are new to science and will be described in collaboration with taxonomists.

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14 April : Good Friday
24 April : Isra Mi'raj

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Selaginella cf. *intermedia*
© Dr. Katja Rembold (B06)

2017
May

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

The overarching goal of scientific project B06 is to quantify the effects of rainforest conversion on plant diversity and ecosystem functioning and to elucidate the underlying mechanisms. Taxonomic knowledge is also needed by many other scientific projects. For quick identification help in the EFForTS plots, a rapid colour guide of commons wayside flowers has been developed.

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1 May : May Day
11 May : Waisak Day
25 May : Ascension of Jesus Christ

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Hypothymis azurea (Black-naped monarch)

© Arite Hildebrandt (B09)

2017 June

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

Capture and identification of birds using mist nets is one of the activities of scientific project B09. Bird cage keeping is an important pastime in Indonesia, thousand of birds are captured and traded every month in Jambi. This scientific project focuses on aboveground animal biodiversity patterns and related ecological functions at local and landscape scales, comparing lowland forest, rubber plantations and oil palm plantations in riparian vs. non-riparian sites, as well as with variation in local management and biodiversity enrichment with indigenous tree species.

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1June : Pancasila Day

25-26 June : Eid al-Fitr

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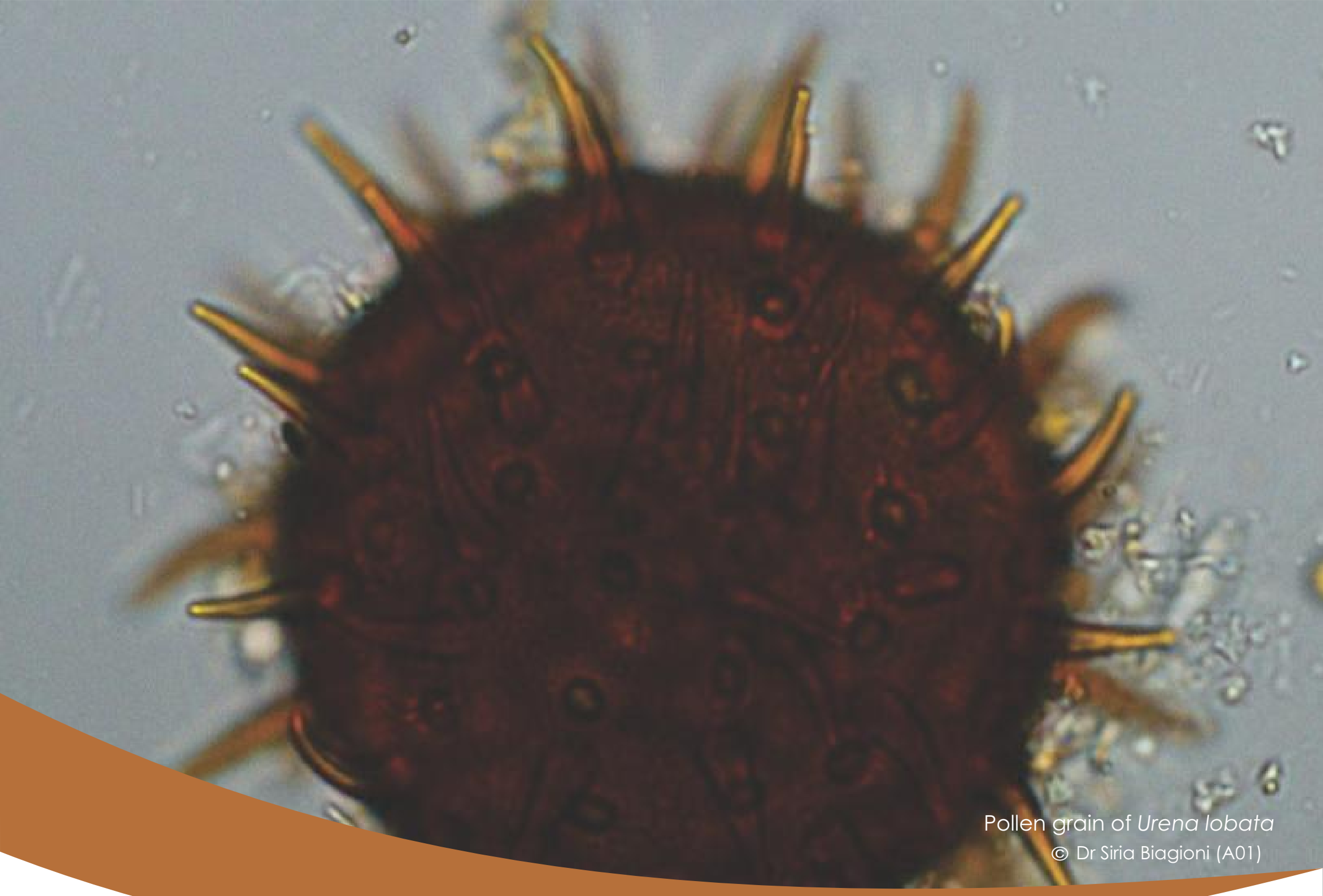

Pollen grain of *Urena lobata*
© Dr Siria Biagioni (A01)

2017
July

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

The main goal of scientific project A01 is to make available facts and knowledge on tropical lowland rainforest and rainforest transformations during prehistoric and historic times from different local sites to landscape level in the study region of the CRC in central Sumatra. While pollen taken from soil sediment samples provide important historical information, modern pollen rain analysis is used for detailed and comprehensive studies on plant phenology, dispersal and reproductive strategies as related to climatic and environmental variability.

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Rhinolophus trifoliatus (Trefoil Horseshoe bat)
© Neil Jun S. Lobite(B09)

2017 August

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

Capture and identification of bats using mist nets is one of the activities of scientific project B09. Bats contribute to many ecological service, including pest control, seed dispersal and pollination. This scientific project focuses on aboveground animal biodiversity patterns and related ecological functions at local and landscape scales, comparing lowland forest, rubber plantations and oil palm plantations in riparian vs. non-riparian sites, as well as with variation in local management and biodiversity enrichment with indigenous tree species.

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17 August : Indonesian Independece Day

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Hoya finlaysonii Wight

© Dr. Sri Rahayu, LIPI Kebun Raya Bogor (Z02a)

2017 September

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

Hoya finlaysonii Wight (Apcynaceae: Aslepiadoideae) is one of fifteen Hoya species found in Jambi forest. It has been used as traditional medicine and ornamental plants wich is also having ability to remove indoor pollutants. The species can be propagated and utilized by the local people as alternative source of their income.

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1 September : Eid al -Adha

21 September : Islamic New Year

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Apis cerana (Asian honey bee)

© Dr. Rika Raffiudin IPB (B09/A01)

2017 October

Ecological and Socioeconomic Eunctions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

Team member of scientific project B09 observed these honey bees (*Apis cerana*) in the village of Bungku, Jambi in the framework of the research "Aboveground patterns of biodiversity and associated ecosystem processes across tropical rainforest transformations" aiming to analyze the biodiversity and abundance of bees (hymenoptera group) in four land use(oil palm plantations, rubber plantations, rubber Forests and Forests).

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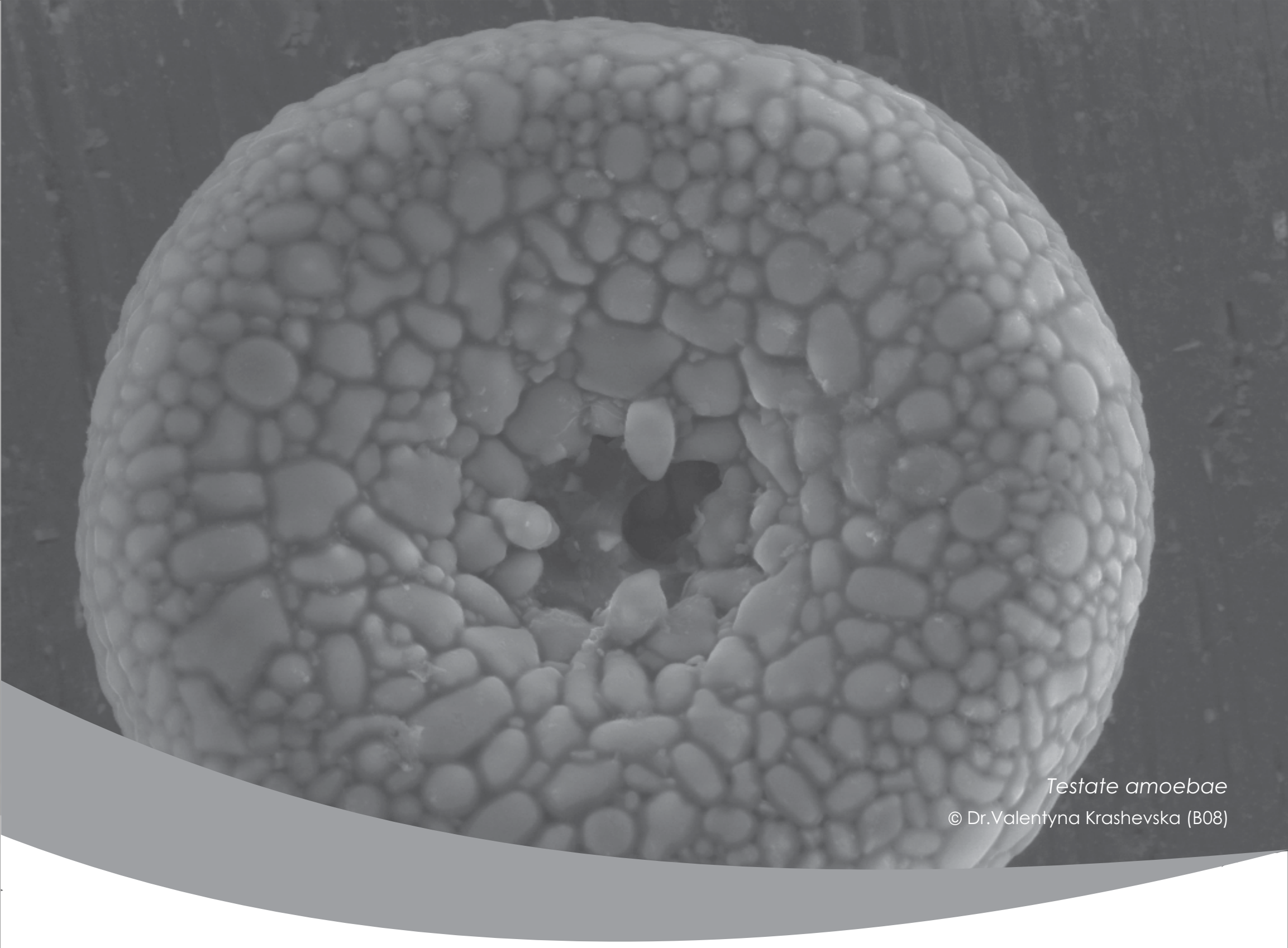

Testate amoebae
© Dr.Valentyna Krashevska (B08)

2017
November

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

Testate amoeba found in the soil are identified and quantified as part of research activities of scientific project B08. "Structure and functioning of the decomposer system in lowland rainforest transformation systems", It aims at identifying changes in community structure of soil microfauna taxa with conversion of rainforest.

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Uncaria cordata
© Dr.Katja Rembold (B06)

2017 December

Ecological and Socioeconomic Functions of Tropical Lowland Rainforest Transformation Systems (Sumatra, Indonesia)

"Common Wayside flowers" have been identified by researchers of scientific project B06 around Bukit Dua Belas National Park, Harapan Forest, small holder Oil Palm and Rubber Plantation in Batang Hari and Sarolangun in Jambi Province, Sumatra. In the first phase, this scientific project investigated plant species diversity with a focus on alpha- and beta-diversity within the 32 core plots located in the four land-use systems (lowland rainforest, jungle rubber, rubber, and oil palm plantations) and now expanded its studies to include functional, phylogenetic and biogeographical aspects of plant diversity.

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1 December : Birthday of the Prophet Muhammad

25 December : Christmas

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