

**TARGET AUDIENCE: Professionals and Amateurs Interested in Voice and Sound Research**  
**THE EVENT IS FREE OF CHARGE**

**COST (European Cooperation in the field of Scientific and Technical Research) 2103**  
**Advanced Voice Function Assessment in Europe**

## **Voice, hearing and brain regulation**

**No evidence based research found**

**Seventh annual COST 2103 related symposium Copenhagen**

**December 16<sup>th</sup>, 2016**

**Location: Radisson BLU Falconer Hotel & Conference Center**  
**Falconer Alle 9, 2000 Copenhagen F**

### **Main speakers:**

**Professor Krzysztof Izdebski, PhD/SLP-CCC, San Francisco**  
**Erkki Bianco, MD, ENT/Phoniatrician, Paris**  
**PD Dr. med. Athanasia Warnecke, Hannover**

**COST (European Cooperation in the field of Scientific and Technical Research) 2103**  
**Advanced Voice Function Assessment in Europe**

## **Voice, respiration and brain regulation**

**No evidence based research found**

**Seventh annual COST 2103 related symposium Copenhagen**

**December 17<sup>th</sup>, 2016**

**Location: Radisson BLU Falconer Hotel & Conference Center**  
**Falconer Alle 9, 2000 Copenhagen F**

### **Topics:**

#### **Voice, hearing and brain regulation:**

Cochlear implants and voice. Brain function, cortical and subcortical function related to voice. Voice function, spasmodic dysphonia and Parkinson. Voice therapy and hearing. Hearing loss, genetics and voice. Overall auditory pitch discrimination. Pitch accuracy, neural area involvement. Musical design and stimulation. Development of hearing related to voice.

#### **Voice, respiration and brain respiration:**

Central respiratory rhythm central generators. fMRI, an essential new examination, near infrared hemoencephalography of motor cortex. Neural development regulation and respiration. Respiration training in Parkinson's disorder, stimulation of the pedunculopontine nucleus (PPN). Auditory processing and forebrain control based on respiration rhythm training. Synchronization, respiration and phonation. Swallowing and respiration, dysarthria and respiration. Hearing, muscular relaxation and voice. Songbirds illustration of the complex vocal communication, respiratory – vocal coordination. Music therapy rehabilitation. Human cuff reflex. Laughter and crying, related to respiration.

### **Secretariat**

Michala Pedersen, Sanila Mahmood  
Anders Jønsson, Bilal Hussain  
Akram, Sarah Øst Jensen,  
Mohammad Shezad Mahmood,  
Anne Alexius Agersted.

### **Collaboration**

The European Academy of  
Phoniatrics

### **Chair**

Mette Pedersen MD, Ph.D., h.c.,  
FRSM, Danish member ISME, UEP,  
BDG, ASLMS, appointed to COST  
2103, ENT specialist, research prof  
IBC Cambridge  
The Medical Center  
Østergade 18, 3  
1100 Copenhagen, Denmark  
[www.mpedersen.org](http://www.mpedersen.org)  
Registration at:  
[m.f.pedersen@dadlnet.dk](mailto:m.f.pedersen@dadlnet.dk)  
Certificate available on request