

Publications

Peer reviewed journals, at peer reviewed conferences, and by invitation:

Thesis: Die biologische Entwicklung der Stimme in der Pubertat 1997

[Download: Thesis in English](#)

The pubertal voice and the normal development in puberty

Oulu Finland

Tutors: A. Sonninen and E. Vilkman

Opponent Wolfram Seidner Humbolt, University of Berlin.

Resumé of thesis: Measurement of the biological development of the voices was carried out in a singing school for qualified children in Copenhagen. They had all been musically tested before entry. Measurements of averaged phonetograms, averaged fundamental frequencies in running speech and variation in semitones at the class levels were compared to pediatric and hormonal development of androgens, testosterone and oestrogens and statistically treated. The best sets of prospective factor were presented.

Evaluation by Aatto Sonninen 1. Oct 1996

[Download: Evaluation](#)

Preparatory thesis in German. [Die biologische Entwicklung der Stimme in der Pubertat](#)

Resumé: The results from the Copenhagen singing school with stratified measurements of phonetograms and fundamental frequencies in running speech and the variation hereof was compared to Thomaner choir Leipzig. The phonetograms were different with higher frequencies with reduced variation for the high notes in sopranos, the other measurements were comparable. The results were presented by invitation to the German Union of singing teachers

Normal Development of Voice in Children 2008/2014

Advances in Evidence-Based Standards

Springer Edition 2008, e-book report June 2014

Resume of book: With updated acoustical measures of voice profiles (phonetograms, the audiogram of the voice), and the fundamental frequency of the tone range, new standards have been reached. Especially the comparison to normal pediatric and hormonal development underlines the statistical scientific validity of the voice parameters. The relation to hormones and the predictive values for voice development opens new and interesting perspectives for experts. This book offers valuable insight to acoustical, physiological and biological measures based on prospective and stratified studies, comparing boys and girls.

more on <http://springer.com/978-3-540-69358-1>

Update:

Fig. 4.5 page 31 had an error, the corrected table is available for download. [Download PDF](#)

The Chinese Translation on Development of Voice in Childhood

[儿童声音的正常发育](#)

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