

Development in auditory-visual speech perception

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Development in auditory-visual speech perception

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10610070

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Section

一般

Research Field

実験系心理学

Research Institution

Kanazawa University

Principal Investigator

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Research Abstract

Inter-sensory integration has been investigated especially in terms of the nature-nurture problem. The present study examined developmental changes in auditory-visual integration in speech perception including the McGurk effect. The McGurk effect is an audiovisual illusion showing that hearing speech is influenced by conflicting visual lip-read information.

The subjects were 3-year-old, 7-year-old, 11-year-old, and 20-year-old native speakers of Japanese. Each age group included 10 subjects. Stimuli were created from/ba/and/da/spoken by a Japanese female talker. Videotaped syllables were edited, resulting in audiovisually conflicting stimuli (audio/ba/, video/da/, and vice versa) as well as audiovisually matching stimuli (audio/ba/, video/ba/). In addition to original intact stimuli, degraded stimuli were prepared. The degraded auditory stimuli were created by lowpass filtering with a cut-off frequency of 730 kHz, the degraded visual stimuli were obtained by mosaic effect at and around ...▼ More

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