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this sharp tuning has a profound impact on our perception of sound there are many ways to measure our perceptual ability to separate sounds of different frequencies or our frequency selectivity one of the most common perceptual measures involves the masking of one sound by another

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the brain's perception of timbre is influenced by a complicated mixture of factors including amplitude structure and spectral content. Amplitude structure, sometimes called envelope, is a property of a vibration. Envelope describes how the amplitude of the sound changes over time. A time domain graph of a sound

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Sound change can be defined as change to the shared perception and production target for a speech sound within a speech community. A definition that encompasses changes that directly impact the number of categorical contrasts between sounds e.g., neutralization as well as changes that involve a shift in the pronunciation target for a speech segment.

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suggests that the mechanisms of sound change involve phonetics i.e., properties of speech production and perception. Recurrence of similar sound changes across languages and across time, the properties of speech production and perception are basically the same for all speakers at all times. Initiation vs. propagation.

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The results by Beddor et al. 2018 also show that this perception-production link remains stable during ongoing sound change. That is, participants who are more advanced along a sound change in perception are also more advanced in production, causing them to spread the sound change further.

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Perception results are similar to the production results at the group level. Individual level results do not provide a clear picture for the perception data, but the individual differences in perception correlate with those in production.

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the inception of phonologization is often conceptualized as a consequence of listeners mistaking accidental effects of the speakers production system the listeners own perceptual system or ambient distortion of the acoustic stream as being representative of the speaker’s internal computation

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john j ohala is emeritus professor of linguistics he has been on the berkeley faculty since 1970 his research interests are in experimental phonology and phonetics and ethological aspects of communication including speech perception sound change phonetic and phonological universals psycholinguistic studies in phonology and sound symbolism

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abstract sound changes in progress can be examined in apparent time through differences in production across speaker age groups additionally perceptions of sound changes in progress have been shown to be influenced by listener characteristics including listener age in ways that mirror production patterns

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Examples and observations. An understanding of sound change is truly important for historical linguistics in general and this needs to be stressed. It plays an extremely important role in the comparative method and hence also in linguistic reconstruction in internal reconstruction in detecting loanwords and in determining whether languages are related to one another.

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