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Laboratory phonology represents the scientific study of the elements of spoken and signed language, their organization, their grammatical function, and their role in speech communication. Research in laboratory phonology uses laboratory or experimental methods and is grounded in quantitative analyses of empirical data from diverse languages. The laboratory phonology approach also extends naturally to the parallel investigation of manual signs as the encoding elements of signed languages. Laboratory phonology is at the leading edge of the general shift towards experimental and quantitative approaches to the study of language across the discipline of linguistics.

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