

## Abstract

Gryder, K. D., & Dowling, W. J. (2020, November). *Timbre change on memory for melodies in musicians and nonmusicians*. Poster session presented at the meeting of Psychonomic Society, Online.

Gryder, K. D., & Dowling, W. J. (2021, April). *Timbre change on memory for melodies in musicians and nonmusicians*. Poster session presented at Southwestern Psychological Association (SWPA), Online.

Musicians and nonmusicians performed a continuous recognition task with melodies that kept the same timbre across exposure and test, changing to a similar timbre, or to a distinctly different timbre. Additionally, the test melodies were either target melodies, melodies that had a similar contour with a couple of intervals changed, or melodies with a distinctly different contour. Results showed that changing the timbre of a melody to a distinctly different timbre resulted in lower recognition than staying in the same timbre or switching to a similar timbre. Although highly trained musicians had overall higher recognition scores than less experienced listeners, they still followed a similar pattern of recognition as the other participants when discriminating old from new different contour melodies. In contrast, highly trained musicians seem to be invariant in performance when it comes to discriminating old from similar contour lures; while less experience participants had increased recognition when the timbre shifted to a similar timbre compared to same or distinctly different timbre changes.