

Recent Publications: Drs. Kimberly Tanner and Jeff Schinske

Owens, MT, Trujillo, G, Seidel, SB, Harrison, CD, Blair, JR, Boyer, KE, Breckler, J, Burrus, LW, Byrd, DT, Caporale, N, Carpenter, EJ, Chan, YHM, Chen, L, Chu, DS, Cochlan, WP, Crow, KD, de la Torre, JR, Denetclaw, WF, Dowdy, L, Fuse, M, Goldman, MA, Govindan, B, Green, M, Harris, HE, He, ZH, Ingalls, S, Ingmire, PD, Knight, JS, LeBuhn, G, Leasure, C, LE, Light, TL, Lowe, C, Lund, L, Márquez-Magaña, LM, Miller-Sims, VC, Moffatt, CA, Murdock, H, Nusse, GL, Parker, VT, Pasion, SG, Patterson, R, Pennings, PS, Ramirez, R, Ramirez, J, Riggs, BE, Rohlf, R, Romeo, J, Rothman, B, Roy, SW, Russo-Tait, T, Sehgal, R, Simonin, K, Spicer, GS, Stillman, JH, Swei, A, L, Vredenberg, V, Weinstein, SL, Zink, A, Kelley, LA, Domingo, CD, Tanner, KD. ***Collectively Improving Our Teaching: Attempting Biology Department-wide Professional Development in Scientific Teaching, CBE-Life Sciences Education***, 2018 Spring;17(1). pii: ar2. doi: 10.1187/cbe.17-06-0106. Note: Co-authors include biology faculty collaborators in the SFSU Biology FEST faculty development program.

Potter, LM, Bissonnette, SA, Knight, JD and Tanner, KD. 2017 ***Investigating Novice and Expert Conceptions of Genetically Modified Organisms, CBE-Life Sciences Education***, September 1, 2017 16:ar52; doi:10.1187/cbe.16-11-0333

Richard M, Coley JD, and Tanner KD. 2017 ***Investigating undergraduate students' use of intuitive reasoning and evolutionary knowledge in explanations of antibiotic resistance. CBE-Life Sciences Education***, 2017 Sep 21;16(3):ar55.

Owens, MT*, Seidel, SB*, Wong, M*, Bejines, TE, Lietz, S, Perez, JR, Sit, S, Subedar, ZS, Acker, GN, Akana, SF, Balukjian, B, Benton, HP, Blair, JR, Boaz, SM, Boyer, KE, Bram, JB, Burrus, LW, Byrd, DT, Caporale, N, Carpenter, EJ, Chan, YHM, Chen, L, Chovnick, A, Chu, DS, Clarkson, BK, Cooper, SE, Creech, C, Crow, KD, de la Torre, JR, Denetclaw, WF, Duncan, KE, Edwards, AS, Erickson, KL, Fuse, M, Gorga, JJ, Govindan, B, Green, LJ, Hankamp, PZ, Harris, HE, He, ZH, Ingalls, S, Ingmire, PD, Jacobs, JR, Kamakea, M, Rhea R. Kimpo, Knight, JD, Krause, SK, Krueger, LE, Light, TL, Lund, L, Márquez-Magaña, LM, McCarthy, BK, McPheron, LJ, Miller-Sims, VC, Moffatt, CA, Muick, PC, Nagami, PH, Nusse, GL, Okimura, KM, Pasion, SG, Patterson, R, Pennings, PS, Riggs, BE, Romeo, J, Roy, SW, Russo-Tait, T, Schultheis, LM, Sengupta, L, Small, R, Spicer, GS, Stillman, JH, Swei, A, Wade, JM, Waters, SB, Weinstein, SL, Willsie, JK, Wright, DW, Harrison, CD, Kelley, LA, Trujillo, G, Domingo, CR, Schinske, JN, Tanner, KD. ***Classroom Sound Can Be Used To Classify Teaching Practices in College Science Courses, Proceedings of the National Academy of Sciences***, 114 (12) 3085-3090, doi:10.1073/pnas.1618693114, 2017. *these authors contributed equally Note: Co-authors are biology faculty collaborators in the community college CCB FEST and SFSU Biology FEST professional development programs.

Bush, S.D., Stevens, M.T., Tanner, K.D.*, and Williams, K.S., ***Origins of Science Faculty with Education Specialties: Hiring Motivations and Prior Connections Explain Institutional Differences in the SFES-Phenomenon, BioScience***, 67(5): 452–63, 2017. *Note: All authors contributed equally and are listed in alphabetical order

Bissonnette, S. A., Combs, E. D., Nagami, P. H., Byers, V., Fernandez, J., Le, D., Realin, J., Woodham, S., Smith, J.I., and Tanner, K. D. ***Using the Biology Card Sorting Task to Measure Changes in***

Conceptual Expertise during Postsecondary Biology Education. *CBE-Life Sciences Education*, 16(1), ar14, 2017.

Coley, J.D., Arenson, M., Xu, Y., & Tanner, K.D. ***Intuitive biological thought: Developmental changes and effects of biology education in late adolescence. *Cognitive Psychology*, 92, 1-21, 2017.***

Krieter, F.E., Julius, W., Tanner, K.D., Bush, S.D., and Scott, G.E. ***Thinking Like a Chemist: Development of a Chemistry Card-Sorting Task to Probe Conceptual Expertise, *Journal of Chemical Education*, 93 (5), pp 811–20, 2016.***

Bush, S.D., Rudd, J.A., Stevens, M.T., Tanner, K.D.*, and Williams, K.S., ***Fostering Change from Within: Influencing Teaching Practices of Departmental Colleagues by Science Faculty with Education Specialties, *PLoS One*, 11(3): e0150914. *Note: All authors contributed equally and are listed in alphabetical order***

Seidel, S.B., Reggi, A.L., Schinske, J.N., Burrus, L.W., and Tanner, K.D. ***Beyond the Biology: A Systematic Investigation of Non-Content Instructor Talk in an Introductory Biology Course, *CBE: Life Sciences Education*, 1:1-14, 2015.***

Bush, S.D., Pelaez, N. J., Rudd, J.A., Stevens, M.T., Tanner, K.D. *, and Williams, K.S. ***Widespread Distribution and Unexpected Variation among Science Faculty with Education Specialties (SFES) across the United States, *Proc. National Academy of Sciences*, 110 (18): 7170-7175, 2013.***

Bush, S.D., Pelaez, N. J., Rudd, J.A., Stevens, M.T., Tanner, K.D. *, and Williams, K.S. ***Science Faculty with Education Specialties: A Cross-Disciplinary Research Study, *Science*, 322:1795-6, December 19, 2008.***