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University, Houston, TX 77005. *Montesinos knots, Hopf plumbings, and L-space surgeries.*

Using Hirasawa-Murasugi's classification of fibered Montesinos knots we classify the L-space Montesinos knots, providing further evidence towards a conjecture that L-space knots have no essential Conway spheres. In the process, we classify the fibered Montesinos knots whose open books support the tight contact structure on the three-sphere. We also construct L-space knots with arbitrarily large tunnel number and discuss some questions about essential tangle decompositions and tunnel number of L-space knots. (Received September 13, 2014)