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Using the grid diagram formulation of knot Floer homology, Ozsvath, Szabo and Thurston defined an invariant of transverse knots in the tight contact 3-sphere. A while later, Lisca, Ozsvath, Stipsicz and Szabo defined an invariant of transverse knots in arbitrary contact 3-manifolds by way of open book decompositions. It has long been thought that these invariants agree where they overlap. We prove this fact by defining yet another invariant of transverse knots and showing that this third invariant agrees with the two invariants mentioned above. This is joint work with Vera Vertesi and David Shea Vela-Vick. (Received July 25, 2011)