Table S5. Risk of potential bias and confounders of the included studies. Studies indicated by a "X" potentially have an increased risk of bias, whereas studies indicated by a "√" potentially have a decreased risk of bias.

Study	Selection bias	Assay method (measurement bias)	Outcome assessment (measurement bias)	Confounders	REMARK Score
Gaedcke et al. 2014	√	X	√	X	12
Luo et al. 2016	√	√	√	√	11.5
Benard et al. 2015	√	X	X	√	14.5
Chen et al. 2009	X	X	X	√	8.5
De Sousa et al. 2011	X	X	X	X	5.5
Kandimalla et al. 2017	√	√	√	√	15
Sangplod et al. 2014	X	X	X	X	7
Shimizu et al. 2010	X	X	X	√	9
Yi et al. 2011	√	X	X	X	11
Wang et al. 2012	√	X	X	X	10
Liang et al. 1999	√	X	X	X	9.5
Esteller et al. 2009	√	X	X	X	9
Maeda et al. 2003	X	X	X	X	6.5
Sanz-Casla et al. 2005	√	X	X	X	9.5
Nakayama et al. 2007	X	X	X	X	7
Wettergren et al. 2008	X	X	√	√	11.5
Wettergren et al. 2010	√	X	√	√	11
Malhotra et al. 2010	√	X	X	X	7.5
Mitomi et al. 2009	√	X	√	√	13.5
Shima et al. 2011	√	X	√	√	16
Bihl et al. 2012	X	X	X	√	9
Veganzones-de-Castro et al. 2012	√	X	√	X	12.5
Kohonen-Corish et al. 2014	√	X	√	√	12
Ishiguro et al. 2006	X	X	√	X	9
Aoyagi et al. 2011	√	X	X	X	10
Miladi-Abdennadher et al. 2011	X	X	X	√	12
Iida et al. 2012	√	X	X	√	11.5
Veganzones et al. 2015	√	X	√	X	12
Krtolica et al. 2007	X	X	X	X	9.5
Kamiyama et al. 2009	X	X	X	X	8.5
Kuan et al. 2015	X	X	√	X	11
Yang et al. 2014	X	X	X	√	10.5
Jiang et al. 2016	√	X	X	√	9.5
Tanaka et al. 2011	√	X	X	√	14.5
Cleven et al. 2014	√	X	√	√	17.5
Wang et al. 2015	X	X	X	√	7
Cui et al. 2011	X	X	X	X	8
Rawlusko-Wieczorek et al. 2014	√	X	√	√	12

Xu et al. 2015	X	X	√	X	9.5
Wallner et al. 2006	√	X	√	√	15
Herbst et al. 2009	√	X	√	√	14.5
Philipp et al. 2012	X	X	√	X	12.5
Philipp et al. 2014	X	X	X	X	10
Herbst et al. 2017	√	√	√	√	15
Jensen et al. 2013	X	X	√	X	11
Wang et al. 2014	X	X	X	X	10
Malhotra et al. 2014	X	X	X	X	6.5
Katoh et al. 2012	X	X	X	√	9.5
Umetani et al. 2004	X	X	X	√	9.5
Fu et al. 2015	√	X	X	√	14
Perez-Carbonell et al. 2014	√	X	√	√	13.5
Baba et al. 2010	√	√	√	√	17
Moya et al. 2013	X	X	√	X	9
Su et al. 2015	√	X	X	X	9
Shima et al. 2011	√	√	√	√	16
Oliver et al. 2014	√	X	X	X	12
Shannon et al. 1999	X	X	X	X	4.5
Hiranuma et al. 2004	X	X	X	√	9
Esteban et al. 2012	X	X	√	X	10
Chaar et al. 2014	X	X	X	X	8
Heitzer et al. 2014	√	X	√	X	14
Pancione et al. 2010	√	X	X	X	11
Lin et al. 2015	√	X	√	√	13.5
Miladi-Abdennadher et al. 2010	X	X	X	√	11
Chen et al. 2012	X	X	X	√	10
Nilsson et al. 2013	X	X	X	X	5
Matthaios et al. 2016	X	√	X	X	9.5
Draht et al. 2014	√	X	√	√	15.5
Tham et al. 2015	√	X	√	√	14.5
Liu et al. 2016	√	X	√	√	15
Dallol et al. 2012	X	X	√	X	10
Tang et al. 2011	X	X	X	√	10
Tsai et al. 2015	√	X	√	X	13
He et al. 2017	X	X	X	√	10.5
Kang et al. 2016	X	X	X	X	8.5
Yang et al. 2013	X	X	√	√	7.5
Yu et al. 2010	X	X	X	√	9
Zhang et al. 2014	X	X	X	X	10.5
Park et al. 2015	√	X	√	√	14
Beggs et al. 2015	X	X	X	X	5
Ruppenthal et al. 2011	X	X	√	X	9.5
Abdelmaksoud-Dammak et al. 2014	X	X	X	X	9
Rawson et al. 2011	√	X	√	√	12.5