

附表 1

特定基因突变在 EOCRC 中的发生率：敏感性分析——逐一剔除法

移除研究	合并研究数量	合并值及其 95%CI 置信区间	I <sup>2</sup>	P 值
<b>TP53 基因突变</b>				
Excluded Fernebro,et.al	12	0.5888 [0.4845; 0.6892]	95.50%	< 0.0001
Excluded Jae,et.al	12	0.6088 [0.5122; 0.7014]	94.90%	< 0.0001
Excluded Berg,et.al	12	0.5852 [0.4806; 0.6860]	95.50%	< 0.0001
Excluded Kirzin,et.al	12	0.6087 [0.5121; 0.7011]	95.00%	< 0.0001
Excluded Raman,et.al	12	0.6010 [0.4984; 0.6992]	94.80%	< 0.0001
Excluded Chang,et.al	12	0.6180 [0.5303; 0.7019]	94.40%	< 0.0001
Excluded Willauer,et.al.	12	0.6180 [0.5303; 0.7019]	94.40%	< 0.0001
Excluded Cercek,et.al.	12	0.5669 [0.4727; 0.6587]	93.90%	< 0.0001
Excluded Hein,et.al.	12	0.5730 [0.4725; 0.6706]	94.60%	< 0.0001
Excluded Kim,et.al.	12	0.5890 [0.4841; 0.6900]	95.50%	< 0.0001
Excluded Wang,et.al.	12	0.5848 [0.4809; 0.6850]	95.50%	< 0.0001
Excluded Do,et.al.	12	0.5806 [0.4766; 0.6812]	95.50%	< 0.0001
Excluded Myer,et.al.	12	0.5801 [0.4755; 0.6812]	95.30%	< 0.0001
<b>BRAF 基因突变</b>				
Excluded Yantiss,et.al	18	0.0721 [0.0451; 0.1151]	99.20%	< 0.0001
Excluded Berg,et.al	18	0.0728 [0.0455; 0.1166]	99.20%	< 0.0001
Excluded Bisht,et.al	18	0.0693 [0.0433; 0.1107]	99.20%	< 0.0001
Excluded Ye,et.al	18	0.0737 [0.0461; 0.1179]	99.20%	< 0.0001
Excluded Khan,et.al	18	0.0718 [0.0446; 0.1154]	99.20%	< 0.0001
Excluded Tsai,et.al	18	0.0683 [0.0430; 0.1085]	99.20%	< 0.0001
Excluded Chang,et.al	18	0.0741 [0.0464; 0.1184]	99.20%	< 0.0001
Excluded Suzuki,et.al	18	0.0777 [0.0499; 0.1212]	99.10%	< 0.0001
Excluded Eachoti,et.al	18	0.0737 [0.0465; 0.1169]	99.20%	< 0.0001
Excluded Willauer,et.al.	18	0.0757 [0.0473; 0.1211]	99.10%	< 0.0001
Excluded Cercek,et.al.	18	0.0739 [0.0459; 0.1191]	99.10%	< 0.0001
Excluded Hein,et.al.	18	0.0723 [0.0448; 0.1167]	99.10%	< 0.0001
Excluded Kim,et.al.	18	0.0719 [0.0448; 0.1153]	99.20%	< 0.0001
Excluded Saizul,et.al.	18	0.0607 [0.0450; 0.0819]	87.90%	< 0.0001
Excluded Wang,et.al.	18	0.0712 [0.0445; 0.1139]	99.20%	< 0.0001
Excluded Chen,et.al.	18	0.0775 [0.0488; 0.1228]	99.10%	< 0.0001
Excluded Myer,et.al.	18	0.0772 [0.0485; 0.1227]	98.80%	< 0.0001
Excluded Ugai,et.al.	18	0.0745 [0.0463; 0.1199]	99.10%	< 0.0001
<b>KRAS 基因突变</b>				
Excluded Fernebro,et.al	25	0.2997 [0.2442; 0.3552]	97.60%	< 0.0001
Excluded Jae,et.al	25	0.2920 [0.2366; 0.3474]	97.10%	< 0.0001
Excluded Yantiss,et.al	25	0.2978 [0.2421; 0.3534]	97.60%	< 0.0001
Excluded Berg,et.al	25	0.2966 [0.2406; 0.3525]	97.60%	< 0.0001
Excluded Chang,et.al	25	0.3079 [0.2563; 0.3596]	97.10%	< 0.0001
Excluded Magnani,et.al	25	0.2971 [0.2413; 0.3529]	97.60%	< 0.0001
Excluded Bisht,et.al	25	0.3067 [0.2542; 0.3593]	97.30%	< 0.0001
Excluded Kirzin,et.al	25	0.2942 [0.2384; 0.3500]	97.60%	< 0.0001
Excluded Raman,et.al	25	0.3032 [0.2485; 0.3579]	97.40%	< 0.0001
Excluded Pillozzi,et.al	25	0.2931 [0.2379; 0.3483]	97.60%	< 0.0001

Excluded Ye,et.al	25	0.3004 [0.2448; 0.3560]	97.60%	< 0.0001
Excluded Khan,et.al	25	0.2971 [0.2409; 0.3533]	97.60%	< 0.0001
Excluded Tsai,et.al	25	0.2993 [0.2435; 0.3551]	97.60%	< 0.0001
Excluded Watson,et.al	25	0.2880 [0.2343; 0.3417]	97.60%	< 0.0001
Excluded Chang,et.al	25	0.2943 [0.2384; 0.3501]	97.60%	< 0.0001
Excluded Zhang,et.al	25	0.2933 [0.2374; 0.3491]	97.60%	< 0.0001
Excluded Liang,et.al	25	0.3018 [0.2465; 0.3571]	97.50%	< 0.0001
Excluded Chouhan, et.al.	25	0.2990 [0.2431; 0.3548]	97.60%	< 0.0001
Excluded Willauer,et.al.	25	0.2868 [0.2334; 0.3402]	97.40%	< 0.0001
Excluded Cercek,et.al.	25	0.2904 [0.2351; 0.3456]	97.50%	< 0.0001
Excluded Hein,et.al.	25	0.2894 [0.2346; 0.3443]	97.40%	< 0.0001
Excluded Kim,et.al.	25	0.3012 [0.2460; 0.3565]	97.60%	< 0.0001
Excluded Wang,et.al.	25	0.2926 [0.2374; 0.3478]	97.60%	< 0.0001
Excluded Chen,et.al.	25	0.2891 [0.2344; 0.3438]	97.50%	< 0.0001
Excluded Myer,et.al.	25	0.2909 [0.2354; 0.3463]	96.90%	< 0.0001
Excluded Ugai,et.al.	25	0.3009 [0.2452; 0.3567]	96.00%	< 0.0001
<b>NRAS 基因突变</b>				
Excluded Watson,et.al	4	0.0413 [0.0342; 0.0498]	29.40%	0.1471
Excluded Chang,et.al	4	0.0397 [0.0328; 0.0481]	0.00%	0.2081
Excluded Zhang,et.al	4	0.0419 [0.0347; 0.0506]	0.00%	0.3927
Excluded Willauer,et.al.	4	0.0405 [0.0327; 0.0502]	41.50%	0.0893
Excluded Hein,et.al.	4	0.0386 [0.0274; 0.0541]	41.50%	0.0945
<b>PTEN 基因突变</b>				
Excluded Berg,et.al	5	0.0493 [0.0321; 0.0750]	68.00%	0.004
Excluded Chang,et.al	5	0.0607 [0.0332; 0.1085]	82.10%	< 0.0001
Excluded Willauer,et.al.	5	0.0667 [0.0565; 0.0785]	54.80%	0.1225
Excluded Hein,et.al.	5	0.0597 [0.0304; 0.1141]	81.40%	0.0008
Excluded Wang,et.al.	5	0.0636 [0.0364; 0.1088]	81.90%	< 0.0001
Excluded Do,et.al.	5	0.0582 [0.0313; 0.1056]	81.80%	< 0.0001
<b>APC 基因突变</b>				
Excluded Yantiss,et.al	12	0.3853 [0.2031; 0.5860]	99.40%	< 0.0001
Excluded Chang,et.al	12	0.3760 [0.1919; 0.5810]	99.40%	< 0.0001
Excluded DeRycke,et.al	12	0.4054 [0.2317; 0.5924]	98.90%	< 0.0001
Excluded Zhang,et.al	12	0.4012 [0.2248; 0.5920]	99.30%	< 0.0001
Excluded Willauer,et.al.	12	0.3584 [0.1762; 0.5648]	99.30%	< 0.0001
Excluded Zhunussova,et.al.	12	0.4048 [0.2309; 0.5921]	99.30%	< 0.0001
Excluded Aitchison,et.al.	12	0.3360 [0.1660; 0.5315]	99.40%	< 0.0001
Excluded Cercek,et.al.	12	0.3274 [0.1635; 0.5167]	99.40%	< 0.0001
Excluded Hein,et.al.	12	0.3304 [0.1639; 0.5227]	99.30%	< 0.0001
Excluded Kim,et.al.	12	0.3501 [0.1715; 0.5538]	99.40%	< 0.0001
Excluded Wang,et.al.	12	0.3650 [0.1820; 0.5709]	99.40%	< 0.0001
Excluded Do,et.al.	12	0.3510 [0.1718; 0.5554]	99.40%	< 0.0001
Excluded Myer,et.al.	12	0.3377 [0.1656; 0.5357]	99.30%	< 0.0001

附表 2

特定基因突变在 EOCRC 中发生率：敏感性分析——剔除低质量研究

基因突变	剔除研究	合并研究数量	Proportion (95%CI)	I <sup>2</sup>	P 值
TP53	Do,et.al., 2022	12	0.5806 [0.4766; 0.6812]	95.50%	< 0.0001
BRAF	Eachkoti,et.al, 2018	18	0.0666 [0.0357; 0.1209]	91.50%	< 0.0001
PTEN	Do,et.al., 2022	5	0.0582 [0.0313; 0.1056]	81.80%	< 0.0001
APC	Zhang,et.al, 2017 Eachkoti,et.al, 2018	11	0.3907 [0.2020; 0.5983]	99.30%	< 0.0001