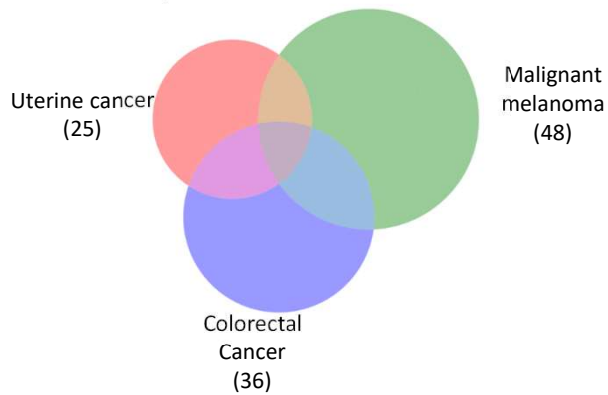
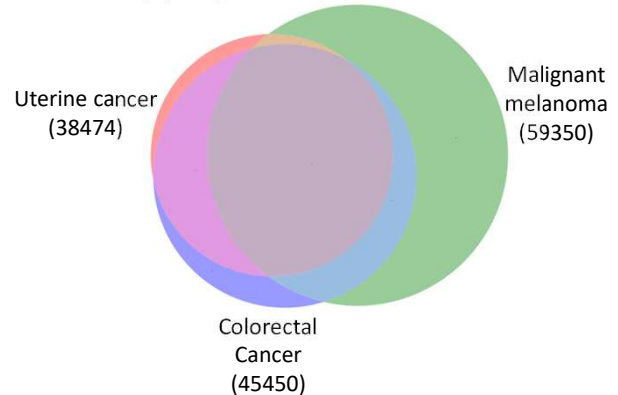


(A) Important SNPs at 0.1% FDR



(B) Important SNPs at 5% FDR



(C) Genetic correlation between important SNPs at 5% FDR

Malignant melanoma	Non-melanoma skin cancer	Skin cancer	Lung cancer	Intrathoracic cancer	Colorectal cancer	Colon cancer	Rectal cancer	Bladder cancer	Uterine cancer	Cervical cancer	Prostate cancer	Breast cancer	Female genital tract cancer	Male genital tract cancer	Lymphoma	Non-hodgkins lymphoma	
	0.72	0.73	0.3	0.3	0.4	0.27	0.41	0.42	0.32	0.39	0.5	0.57	0.26	0.39	0.28	0.25	Malignant melanoma
		0.96	0.09	0.09	0.15	0.03	0.16	0.4	0.05	0.15	0.44	0.49	0.04	0.12	0.04	0.02	Non-melanoma skin cancer
			0.05	0.05	0.12	0	0.13	0.38	0.03	0.11	0.42	0.48	0	0.09	0.01	-0.01	Skin cancer
				0.99	0.86	0.86	0.86	0.74	0.78	0.84	0.91	0.87	0.86	0.8	0.89	0.89	Lung cancer
					0.85	0.84	0.85	0.76	0.75	0.83	0.91	0.86	0.86	0.78	0.88	0.87	Intrathoracic cancer
						0.9	0.93	0.65	0.81	0.87	0.84	0.87	0.81	0.86	0.86	0.84	Colorectal cancer
							0.83	0.69	0.83	0.81	0.87	0.87	0.85	0.81	0.9	0.9	Colon cancer
								0.66	0.82	0.88	0.85	0.86	0.81	0.87	0.86	0.84	Rectal cancer
									0.6	0.65	-0.43	-0.36	0.74	0.6	0.69	0.71	Bladder cancer
											0.8	0.77	0.88	0.78	0.82	0.85	Uterine cancer
												0.82	0.89	0.86	0.81	0.84	Cervical cancer
													-0.52	0.88	0.82	0.89	Prostate cancer
															0.88	0.88	Breast cancer
																0.75	Female genital tract cancer
																	Male genital tract cancer
																0.85	Lymphoma
																0.98	Non-hodgkins lymphoma