Online Resource 1: Table with overview of the sequenced individuals with regard to phenotype, *POLE* mutation carrier status, sequence methods used and which filtering strategy they were included in.

Journal: Familial Cancer

Title: A Novel POLE Mutation Associated with Cancers of Colon, Pancreas, Ovaries and Small Intestine

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ID	Phenotype	POLE p.Tyr458Phe carrier	Exome seq/avg coverage/ %covered target ¹	Validated by Sanger	Classified as affected/unaffected for filtering	Used in filtering based on disease status	Used in filtering based on CRC gene panel
III:2	CRC 63 y.	Yes	No/-/-	Yes	-	-	-
III:16	No cancers	No	Yes/97/96	Yes	Unaffected	Yes	Yes
IV:3	Lung cancer 72 y.	No	Yes/126/98	Yes	Unclassified	No	Yes
IV:6	Prostate cancer 59 y	No	No/-/-	Yes	-	-	-
IV:8	Pancreatic cancer 46 y.	Yes	No/-/-	Yes	-	-	-
IV:9	Bil. Ovarian cancer 40 y. CRC 48 y, Mult. adenomas	Yes	Yes/220/99	Yes	Affected	Yes	Yes
IV:10	Mult. adenomas	Yes	Yes/165/99	Yes	Affected	Yes	Yes
IV:12	Bladder cancer 54 y.	No	Yes/242/99	Yes	Unclassified	No	Yes
IV:13	CRC 43 y., Mult. adenomas	Yes	No/-/-	Yes	-	-	-
IV:15	CRC 58 y	Yes	No/-/-	Yes	-	-	-
IV:17	CRC 42 y, small intestine cancer 54 and 57 y., mult. adenomas	Yes	Yes/155/99	Yes	Affected	Yes	Yes
IV:20	CRC 38 y.	Yes	No/-/-	Yes	-	-	-
IV:21	CRC 56 y., adenomas	Yes	Yes/112/97	Yes	Unclassified	No	Yes
V:2	Adenoma	No	Yes/235/99	Yes	Unclassified	No	Yes
V:4	Mult. adenomas	Yes	Yes/157/98	Yes	Affected	Yes	Yes
V:5	Mult. adenomas	Yes	Yes/187/99	Yes	Affected	Yes	Yes
V:7	Rectal neuroendocrine tumour 34 y., adenomas.	No	Yes/117/98	Yes	Affected	Yes	Yes
V:8	Adenomas	Yes	Yes/81/95	Yes	Affected	Yes	Yes
V:9	-	No	Yes/159/99	Yes	Unclassified	Yes	Yes
V:10	-	No	Yes/68/93	Yes	Unclassified	Yes	Yes

