1. Record Nr. UNINA9910298432703321

Titolo	Hereditary Colorectal Cancer : Genetic Basis and Clinical Implications / / edited by Laura Valle, Stephen B. Gruber, Gabriel Capellá
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74259-0
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (494 pages)
Disciplina	616.994347042
Soggetti	Medical genetics Oncology Cancer research Gene Function Oncology Cancer Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part1 : GENETIC CAUSES AND ASSOCIATED PHENOTYPES- Lynch syndrome -- The molecular basis of Lynch-like syndrome -- Constitutional mismatch repair deficiency -- Mismatch repair proficient hereditary non-polyposis colorectal cancer -- Genetic and environmental modifiers of risk in Lynch syndrome -- ADENOMATOUS POLYPOSIS SYNDROMES- Introduction -- Familial adenomatous polyposis -- Polymerase proofreading-associated polyposis -- MUTYH-associated polyposis -- NTHL1-associated polyposis -- Germline biallelic inactivation of MMR genes (with polyposis phenotype) -- Unexplained adenomatous polyposis -- HAMARTOMATOUS POLYPOSIS SYNDROMES- Peutz-Jeghers syndrome -- Juvenile polyposis syndrome -- PTEN-hamartoma tumor syndromes -- Other hamartomatous polyposis conditions -- HEREDITARY MIXED POLYPOSIS SYNDROME -- SERRATED POLYPOSIS SYNDROME -- Part2: GENETIC DIAGNOSTICS and CLINICAL MANAGEMENT -- Genetic testing in hereditary colorectal cancer -- Universal tumor screening for Lynch syndrome -- Classification of genetic variants. Prediction models for

Lynch syndrome -- Surveillance guidelines for hereditary colorectal cancer syndromes -- Surgical management of hereditary colorectal cancer syndromes -- Chemoprevention in hereditary colorectal cancer syndromes -- Immunotherapy in hereditary colorectal cancer -- The Immune Biology of Microsatellite Unstable cancer -- Hereditary colorectal cancer: Immunotherapy approaches -- Medical oncology management of hereditary colorectal cancer. Part3: REGISTRIES and DATABASES -- Databases: intentions, capabilities and limitations -- The Colon Cancer Family Registry Cohort -- The Prospective Lynch Syndrome Database -- The InSiGHT Database: An example LOVD system -- The International Mismatch Repair Consortium.

Sommario/riassunto

This book provides information on a wide variety of issues ranging from genetics to clinical description of the syndromes, genetic testing and counseling, and clinical management including surveillance, surgical and prophylactic interventions, and chemoprevention. Moreover, current hot issues, such as the identification of novel causal genes and the challenges we face, and the relevance of cancer risk modifiers, both genetic and environmental, are also discussed. This reference book is great for geneticists, oncologists, genetic counselors, researchers, clinicians, surgeons and nurses dedicated to, or interested in, hereditary cancer. The best and most recognized experts in the field have contributed to this project, guaranteeing updated information, accuracy and the discussion of topical issues.