-1.0 -0.5 0.0 0.5 1.0 FANCONI ANEMIA PATHWAY Interstrand crosslink (ICL) recognition FA pathway FANCM| MHF activation FAAP24 ATRIP ATR DSB formation Mus81 +p +p EME1/2 Chromatin localization ICL unhooking of FA proteins UAF1 XPF SLX1 FA core complex USP1 ERCC1 SLX4 Nuclear foci FANCE formation FAAP100 FANCA HES1 Bloom's syndrome +uFANCI complex (BTR) FANCC FANCL FANCD2 RMI2 +uFANCE FANCG UBE2T ТорЗ **BLM** FANCE FANCM MHF FAAP24 RPA Translesion synthesis (TLS) $\operatorname{pol} \zeta$ $\operatorname{pol}\eta$ Rev1 Rad51C BRCA2 poli $pol \kappa$ polvFANCN Rad51 BRCA1 FANCI MLH1 FAN1 PMS2 Mismatch repair Homologous recombination 03460 11/21/12

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