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Autore	Tomes Robert R
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Nota di contenuto	A long time in the comin' : American intellectuals and the Cold War, 1945-1963 -- Consensus and commitment : American intellectuals and Vietnam, 1954-1963 -- The search for order : from Diem to Pleiku, November 1963 to January 1965 -- Skepticism and dissent : from Rolling Thunder to Tet, February 1965 to January 1968 -- The collapse of the liberal consensus, 1968 -- The twilight of liberalism, 1969-1975.
Sommario/riassunto	Prior to the Vietnam war, American intellectual life rested comfortably on shared assumptions and often common ideals. Intellectuals largely supported the social and economic reforms of the 1930's, the war against Hitler's Germany, and U.S. conduct during the Cold War. By the early 1960's, a liberal intellectual consensus existed. The war in Southeast Asia shattered this fragile coalition, which promptly dissolved into numerous camps, each of which questioned American institutions, values, and ideals. Robert R. Tomes sheds new light on the demise of Cold War liberalism and the development of the New Left, and the steady growth of a conservatism that used Vietnam, and anti-war sentiment, as a rallying point. Importantly, Tomes provides new evidence that neoconservatism retreated from internationalism due largely to Vietnam, only to regroup later with substantially diminished

goals and expectations. Covering vast archival terrain, *Apocalypse Then* stands as the definitive account of the impact of the Vietnam war on American intellectual life.

2. Record Nr.

Autore

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Titolo

Kristijan Ramadan

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Ubiquitin and Ubiquitin-Relative SUMO in DNA Damage Response

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Descrizione fisica

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DNA damage response (DDR) is a term that includes a variety of highly sophisticated mechanisms that cells have evolved in safeguarding the genome from the deleterious consequences of DNA damage. It is estimated that every single cell receives tens of thousands of DNA lesions per day. Failure of DDR to properly respond to DNA damage leads to stem cell dysfunction, accelerated ageing, various degenerative diseases or cancer. The sole function of DDR is to recognize diverse DNA lesions, signal their presence, activate cell cycle arrest and finally recruit specific DNA repair proteins to fix the DNA damage and thus prevent genomic instability. DDR is composed of hundreds of spatiotemporally regulated and interconnected proteins, which are able to promptly respond to various DNA lesions. So it is not surprising that mutations in genes encoding various DDR proteins cause embryonic lethality, malignancies, neurodegenerative diseases and premature ageing. The importance of DDR for cell survival and genome stability is unquestionable, but how the sophisticated network of hundreds of different DDR proteins is spatiotemporally coordinated is far from being understood. In the last ten years ubiquitin (ubiquitination) and

the ubiquitin-relative SUMO (sumoylation) have emerged as essential posttranslational modifications that regulate DDR. Beside a plethora of ubiquitin and sumo E1-activating enzymes, E2-conjugating enzymes, E3-ligases and ubiquitin/sumo proteases involved in ubiquitination and sumoylation, the complexity of ubiquitin and sumo systems is additionally increased by the fact that both ubiquitin and sumo can form a variety of different chains on substrates which govern the substrate fate, such as its interaction with other proteins, changing its enzymatic activity or promoting substrate degradation. The importance of ubiquitin/SUMO systems in the orchestration of DDR is best illustrated in patients with mutations in E3-ubiquitin ligases BRCA1 or RNF168. BRCA1 is essential for proper function of DDR and its mutations lead to triple-negative breast and ovarian cancers. RNF168 is an E3 ubiquitin ligase, which creates the ubiquitin docking platform for recruitment of different DNA damage signalling and repair proteins at sites of DNA lesion, and its mutations cause RIDDLE syndrome characterized by radiosensitivity, immunodeficiency and learning disability. In addition, recently discovered the ubiquitin receptor protein SPRTN is part of the DNA replication machinery and its mutations cause early-onset hepatocellular carcinoma and premature ageing in humans. Despite more than 700 different enzymes directly involved in ubiquitination and sumoylation processes only few of them are known to play a role in DDR. Therefore, we feel that the role of ubiquitin and the ubiquitin-related SUMO in DDR is far from being understood, and that this is the emerging field that will hugely expand in the next decade due to the rapid development of a new generation of technologies, which will allow us a more robust and precise analyses of human genome, transcriptome and proteome. In this Research Topic we provide a comprehensive overview of our current understanding of ubiquitin and SUMO pathways in all aspects of DDR, from DNA replication to different DNA repair pathways, and demonstrate how alterations in these pathways cause genomic instability that is linked to degenerative diseases, cancer and pathological ageing.
