DNA Damage & Repair

Alkylating Agents
- DNA Damage Sensors
- Checkpoint Signaling

O6-methylguanine
- DNA Damage Autophagy
- PARP1
- DNA Damage Sensors & Checkpoint Signaling

Uracil
- Single-Strand Break Repair
- Base Excision Repair (BER)

X-ray
- Alkylation Radiolysis
- Spontaneous Reaction

UV Light
- Photocycling Aromatic Hydrocarbons (PAHs)

Ionizing Radiation (IR)
- UV Light
- X-ray

Hydroxyurea (HU)
- Anti-tumor Agents

DNA Damage & Repair

Single-Strand Break Repair (SSBR)

Base Excision Repair (BER)

Nucleotide Excision Repair (NER)

Mismatch Repair (MMR)

Non-homologous End-joining (NHEJ)

Homologous Recombination (HR)

DNA Damage Sensors & Checkpoint Signaling

Excess ATP

Enzyme
- Kinase
- Phosphatase
- Transcription Factor

DNA Damage & Autophagy

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