

# Stanford

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## Kendric C. Smith

Professor of Radiation Oncology, Emeritus

 Curriculum Vitae available Online

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiation Oncology

#### LINKS

- My Web Site: <http://www.stanford.edu/~kendric/>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The photochemistry and radiation chemistry of DNA, the genetic control and biochemical bases of the multiple pathways of DNA repair, and the roles of DNA repair processes in radiation and spontaneous mutagenesis. Over 190 papers have been published on these and related topics.

### Publications

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#### PUBLICATIONS

- **Recombinational DNA repair: the ignored repair systems** *BIOESSAYS*  
Smith, K. C.  
2004; 26 (12): 1322-1326
- **SPONTANEOUS MUTAGENESIS - EXPERIMENTAL, GENETIC AND OTHER FACTORS** *MUTATION RESEARCH*  
Smith, K. C.  
1992; 277 (2): 139-162
- **INVOLVEMENT OF RECB-MEDIATED (BUT NOT RECF-MEDIATED) REPAIR OF DNA DOUBLE-STRAND BREAKS IN THE GAMMA-RADIATION PRODUCTION OF LONG DELETIONS IN ESCHERICHIA-COLI** *MUTATION RESEARCH*  
SARGENTINI, N. J., Smith, K. C.  
1992; 265 (1): 83-101
- **ROLE OF RUVAB GENES IN UV-RADIATION AND GAMMA-RADIATION AND CHEMICAL MUTAGENESIS IN ESCHERICHIA-COLI** *MUTATION RESEARCH*  
SARGENTINI, N. J., Smith, K. C.  
1989; 215 (1): 115-129
- **MUTATIONAL SPECTRUM ANALYSIS OF UMUC-INDEPENDENT AND UMUC-DEPENDENT GAMMA-RADIATION MUTAGENESIS IN ESCHERICHIA-COLI** *MUTATION RESEARCH*  
SARGENTINI, N. J., Smith, K. C.  
1989; 211 (2): 193-203
- **THE ROLES OF RECBCD, SSB AND RECA PROTEINS IN THE FORMATION OF HETERODUPLEXES FROM LINEAR-DUPLEX DNA INVITRO** *MOLECULAR AND GENERAL GENETICS*

Wang, T. C., Smith, K. C.  
1989; 216 (2-3): 315-320

- **DIFFERENT EFFECTS OF RECJ AND REC� MUTATIONS ON THE POSTREPLICATION REPAIR OF UV-DAMAGED DNA IN ESCHERICHIA-COLI-K-12** *JOURNAL OF BACTERIOLOGY*  
Wang, T. C., Smith, K. C.  
1988; 170 (6): 2555-2559
- **GENETIC AND PHENOTYPIC ANALYSES INDICATING OCCURRENCE OF THE REC�262 AND RADB101 MUTATIONS AT THE SAME LOCUS IN ESCHERICHIA-COLI** *JOURNAL OF BACTERIOLOGY*  
SARGENTINI, N. J., Smith, K. C.  
1988; 170 (5): 2392-2394
- **ROLE OF DNA-POLYMERASE-I IN POSTREPLICATION REPAIR - A REEXAMINATION WITH ESCHERICHIA-COLI DELTA-POLA** *JOURNAL OF BACTERIOLOGY*  
Sharma, R. C., Smith, K. C.  
1987; 169 (10): 4559-4564
- **RECA-DEPENDENT DNA-REPAIR IN UV-IRRADIATED ESCHERICHIA-COLI** *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY*  
Smith, K. C., Wang, T. C., Sharma, R. C.  
1987; 1 (1): 1-11
- **SCIENCE OF PHOTOBIOLOGY** *BIOSCIENCE*  
Smith, K. C.  
1974; 24 (1): 45-48