Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiation Oncology

LINKS

- My Web Site: https://web.stanford.edu/~kendric/

Research & Scholarship

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

PUBLICATIONS

- A Call to Action: Marshaling Science for Society *Bioscience*  
  2021; 71 (1): 7–8

- 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 RECBO-MEDIATED (BUT NOT RECBO-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

- Ignorance of photobiology: a major pitfall in using lasers in medicine. *Pain*  
  Smith, K. C.  
  1991; 47 (2): 243

- 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.
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DIFFERENT EFFECTS OF RECJ AND RECN 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 RECN262 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