Bio

ACADEMIC APPOINTMENTS

• Emeritus Faculty, Acad Council, Radiation Oncology

LINKS

• My Web Site: http://www.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

• 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-DUPEX DNA
  INVITRO MOLECULAR AND GENERAL GENETICS
Wang, T. C., Smith, K. C.
1989; 216 (2-3): 315-320

- **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