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 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

• 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
· 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-DUPELEX 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