BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

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NAME	POSITION TITL	.E		
Teresa SF. Wang				
eRA COMMONS USER NAME	Professor of	f Pathology		
WANG.TERESA				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
National Taiwan University, Taiwan	B.S.	1960	Agricultural Chemistry	
University of Texas, Austin, TX	Ph.D.	1965	Chemistry	
Georgetown University School of Medicine	Postdoc	1967-68	Biochemistry	
A. Positions and Honors <u>Positions and Employment:</u> Research Associate, Department of Pathology, Sta	nford University,S	Stanford, CA	8/69 – 9/75	
Senior Research Associate, Department of Patholo	CA 9/75 – 2/86			
Associate Professor, Department of Pathology, Sta	3/86 - 9/90			
Professor, Department of Pathology, Stanford University, Stanford, CA			9/90 – present	
The Klaus Bensch Endowed Professorship in Experimental Pathology			2004 – present	
AAAS fellow			2006-present	
Service and Memberships:				
Ad Hoc Reviewer, NIH Biochemistry Study Section, Subcommittee I 10			10/87	
Member, Project Site Visit Team of NIH Biochemistry Study Section 9/			9/87	
Member, Project Site Visit Team of NIH Biochemistry Study Section 4/			4/88	

Member, Project Site Visit Team of NIH Biochemistry Study Section	9/87
Member, Project Site Visit Team of NIH Biochemistry Study Section	4/88
NIH Biochemistry Study Section, Subcommittee I	7/88 - 6/92
Special Reviewer of National Cancer Institute Program Project	3/89
Editorial Advisory Board of Biochemistry	1/93 - 1995
Reviewer of USA MRMC Breast Cancer Research Program	9/96
Member of Editorial Board of Journal of Biological Chemistry	7/94 - 7/99
NIH Molecular Cytology Study Section	7/97 - 6/99
National Cancer Institute Board of Scientific Counselors (BSC)	2005-2008

U.S. Patent: 6,008,045. Patent Title: AcHDP or Compositions and Methods for Template-Dependent Enzymatic Synthesis of Nucleic Acid

U.S. Patent: 6,103,473. Patent Title: Drug Screening

U.S. Patent: 6,100,02. Patent Title:Drug Design Assay

U.S. Patent: 6,670,161. Patent Title: Compositions and Methods for Template-dependent Enzymatic Synthesis of Nucleic Acid

B. Selected Publications Pertinent to this Application (from a total of 120 publications):

Wang, T.S.-F. Eukaryotic DNA polymerases. Annual Review of Biochemistry. 60: 513-552. 1991. Dornreiter, I., Copeland, W.C. and **Wang, T.S.-F**. Initiation of SV40 DNA replication requires the interaction of

a specific domain of human DNA polymerase _ with large T antigen. Mol. Cell. Biol. <u>13</u>: 809-820. 1993 Park, H., Francesconi, S. and **Wang, T.S.-F.**, Cell cycle expression of two replicative DNA polymerases α and δ from *Schizosaccharomyces pombe*. Mol. Biol. Cell. 4: 145-157. 1993.

Francesconi, S., Park, H. and **Wang, T.S.-F**. Fission yeast with thermosensitive mutations in DNA polymerase δ alleles exhibits cell division cycle phenotype. Nucleic Acid Res. 21: 3821-3828. 1993.

Arroyo, M. P., Tan, C. K., Downey, K. M., So, A. G., and **Wang, T. S.-F.** *Schizosaccharomyces pombe* proliferating cell nuclear antigen mutations affect DNA polymerase δ processivity. J. Biol. Chem. <u>271</u>: 15971-15980. 1996.

- Wang, T. S.-F. Cellular DNA polymerases. In: Eukaryotic DNA Replication. Cold Spring Harbor Laboratory Press. Chapter 15, pp461-493. 1996.
- Uchiyama, M., Galli, I., Griffiths, D. J. F., and Wang, T. S.-F. A novel mutant allele of Schizosaccharomyces pombe rad26 defective in monitoring the S phase progression to prevent premature mitosis. Mol. Cell. Biol. <u>17</u>: 3103-3115. 1997.
- Arroyo, M. P. and **Wang, T. S.-F**. Mutant PCNA alleles are associated with *cdc* phenotypes and sensitivity to DNA-damage in fission yeast. Mol. Gen. Genetics. <u>257</u>: 505-518. 1998.
- Bhaumik, D. and **Wang, T. S.-F**. Mutational effect of fission yeast Polα on cell cycle events. Mol. Biol. Cell. <u>9</u>: 2107-2123. 1998.
- Arroyo, M. P. and **Wang, T. S.-F**. *Schizosaccharomyces pombe* replication proteins. In Genetic Approaches to Eukaryotic Replication and Repair. Methods. A Companion to Methods in Enzymology. (ed. P. A. Fisher) Academic Press.<u>18</u>: 335-348. 1999.
- Wang, T. S.-F., Conger, K. L., Copeland, W. C., and Arroyo, M. P., Eukaryotic DNA polymerases. In Eukaryotic DNA replication: a practical approach (ed. S. Cotterill), Oxford University Press. <u>3</u>:67-92. 1999.
- Conger, K. L., Liu, J.-S., Kuo, S.-R., L. T. Chow, and **Wang, T. S.-F.** Human papillomavirus DNA replication: Interactions between the viral E1 protein and two subunits of human DNA polymerase α/primase. J. Biol. Chem. <u>274</u>: 2696-2705. 1999.
- Liu, V. F., Bhaumik, D. and **Wang, T. S.-F**. Mutator phenotype induced by aberrant replication. Mol. Cell. Biol. <u>19</u>: 1126-1135. 1999.
- Griffiths, D. J. F., Uchiyama, M., Nurse, P. and **Wang, T. S.-F.** A novel mutant allele of the chromatin bound fission yeast checkpoint protein Rad17 separates the DNA structure checkpoint. J Cell Sci.<u>113</u>: 1075-1088. 2000.
- Tan, S. and **Wang, T. S.-F.** Mutational analysis of fission yeast primase defines the requirements for checkpoint response to aberrant S phase initiation. Mol. Cell. Biol. 20: 7853-7866. 2000.
- Griffiths, D.J.F. Liu, V. F., Nurse, P. and **Wang, T. S.-F.** Role of fission yeast primase catalytic subunit in the replication checkpoint. Mol. Biol. Cell. <u>12</u>: 115-128. 2001.
- Kai, M., Tanaka, H., **Wang, T. S.-F.** Fission yeast Rad17 binds to chromatin in response to replication arrest or DNA damage. Mol. Cell. Biol. 21:3289-3301. 2001.
- Kai, M. and **Wang, T. S.-F.** Checkpoint activation regulates mutagenic transleion synthesis. Genes & Development. <u>17</u>: 64-76. 2003.
- Dahlen, M. P. Sunnerhagen, and **Wang, T. S.-F.** Fission yeast replication proteins associate with telomerase and influence telomere length maintenance. Mol. Cell. Biol. 23: 3031-3042. 2003.
- Gutierrez, P. J. A. and **Wang, T. S.-F**. Genomic instability induced by mutations in *Saccharomyces cerevisiae POL1*. Genetics. <u>165</u>: 65-81. 2003
- Kai M. and **Wang T. S.-F.** Checkpoint responses to replication stalling: inducing tolerance and preventing mutagenesis. Mutat Res. 2003 532: 59-57. 2003
- Uchiyama, M. and **Wang T. S.-F.** The B-subuit of DNA polymerase α-primase associates with the origin recognition complex for initiation of DNA replication. Mol. Cell. Biol. <u>24</u>: 7419-7434. 2004.
- Zhou, Y. and **Wang, T. S.-F.** A coordinated temporal interplay of nucleosome reorganization factor, sister chromatin cohesion factor, and DNA Polymerase α facilitates DNA replication. Mol. Cell. Biol. <u>24</u>: 9568-9579. 2004.
- Kai, M., Boddy, M. N., Russell, P., and Wang, T. S.-F. Replication checkpoint kinase Cds1 regulates Mus81 to preserve genome integrity during replication stress. Genes & Development. <u>19</u>: 919-932. 2005.
- Kai, M., Taricani L. and **Wang, T. S.-F.** Methods for studying mutagenesis and checkpoints in *Schizosaccharomyces pombe*. Methods in Enzymology <u>409</u>: 183-194. 2006
- Taricani, L. and **Wang, T. S.-F.** Rad4^{TopBP1}, a scaffold protein, plays separate roles in DNA damage and replication checkpoints and DNA Replication. Mol. Biol. Cell. <u>17</u>:.3456-3468.
- Taricani, L. and **Wang, T. S.-F.** Rad4^{TopBP1} Associates with Srr2, an Spc1 MAPK Regulated Protein, in Response to Environmental Stress. J. Biol. Chem. 282: 8793-8800. 2007.
- Kai, M., Furuya, K. Carr, A. M. and **Wang, T. S.-F.** Phosphorylation of Checkpoint-clamp by Rad3^{ATR} Regulates the Choice of Repair Pathways. Nature Cell Biol. <u>6:</u> 691-697. 2007.