

## CURRICULUM VITAE

**NAME:** Tim J. Yen, Ph.D.

### EDUCATION:

University of California Santa Barbara, California	B.A., Biochemistry	1974-1978
University of California Santa Barbara, California	M.A., Biochemistry	1979-1981
University of California Santa Barbara, California	Ph.D., Biochemistry/ Molecular Biology	1981-1985

### BRIEF CHRONOLOGY OF EMPLOYMENT:

Senior Member Institute for Cancer Research, Fox Chase Cancer Center, Philadelphia, PA	2001-date
Member (with tenure) Institute for Cancer Research, Fox Chase Cancer Center, Philadelphia, PA	1995-2001
Associate Member Institute for Cancer Research, Fox Chase Cancer Center, Philadelphia, PA	1990-1995
Postdoc Johns Hopkins University, School of Medicine, Baltimore, MD	1986-1990

### TEACHING EXPERIENCE:

University of Pennsylvania – Cell Cycle Lecture, First Year Cell Biology Course	1994-1997
University of Pennsylvania – Biology of Cancer Seminar Series	1999-2002
University of Pennsylvania – Graduate Student Thesis Committees	

### SOCIETIES:

American Society for Cell Biology

### ADJUNCT APPOINTMENTS:

Adjunct Associate Professor of Genetics University of Pennsylvania, Philadelphia, PA	1990-date
---	-----------

### EXTERNAL ADVISORY BOARDS/COMMITTEES:

Regular Member Molecular Cytology Study Section (CDF 2) NIH	2000-2004
Council for Biomedical Graduate Studies at the University of Pennsylvania	1997-date

### INTERNAL ADVISORY BOARDS/COMMITTEES:

Shared Facilities Review Committee	current
Promotion and Appointments Committee	current
Postdoctoral Training Grant Committee	1994-1996

### EDITORIAL BOARDS:

<i>J. Cell Biol.</i> , Faculty of 1000	current
--	---------

### EDITORIAL REVIEW BOARDS:

<i>Ad Hoc</i> Reviewer for <i>Nature</i> , <i>Science</i> , <i>Cell</i> , <i>J. Cell Biol.</i> , <i>Nat. Cell Biol.</i> , <i>Mol. Cell Biol.</i> , <i>Genes and Dev.</i> , <i>J. Cell Sci.</i> and <i>PNAS</i> .	current
---	---------

**INTERNATIONAL ACTIVITIES:**

Advisory Committee

*Ad Hoc* grant Reviewer for Human Frontiers Science Foundation,  
Strasbourg, France 1998-date

*Ad Hoc* grant Reviewer for Wellcome Trust, London, UK 1998-date

Meetings

Aneuploidy, Chartres, France 2001

EMBO Workshop, EMBL, Heidelberg, Germany 2000

International Centromere Conference, Taiwan, ROC 1998

Centromere and Telomere Conference, Juan March Institute, Madrid, Spain 1996

International Congress on Biochemistry and Molecular Biology,  
Vancouver, B.C., Canada 1995

**SPECIAL SCIENTIFIC RECOGNITION:**

Leukemia Society of America Scholar 1995-2000

Lucille P. Markey Scholar 1989-1995

**FELLOWSHIPS, HONORS, AWARDS:**

Young Investigator's Award for research performed as a postdoctoral fellow  
at the Johns Hopkins University School of Medicine 1988

Postdoctoral Fellowship Award, American Cancer Society 1985-1988

**SELECTED INVITED LECTURES (conferences only):**

American Society for Cell Biology: Minisymposium, San Francisco, CA. 2002  
Co-Chair.

NCI Workshop on Mitosis: Washington, DC 2002

American Society for Cell Biology: Minisymposium, Washington, DC,  
(presented by V. Sudakin) 2001

Cold Spring Harbor Symposium: Cell Cycle, Salk Institute 2001

Gordon Conference Motile and Contractile Systems 2001

American Society for Cell Biology: Minisymposium, Washington, DC,  
(presented by V. Sudakin) 1999

Cell Cycle Conference, Salk Institute, La Jolla, CA 1999

American Society for Cell Biology: Minisymposium, San Francisco, CA,  
(presented by G. Chan) 1997

Cold Spring Harbor Symposium: The Cytoskeleton and Cell Function,  
Cold Spring Harbor, NY 1995

International Cell Biology Congress: Chromosome Structure and Function,  
Madrid, Spain 1992

Gordon Research Conference: Motile and Contractile Systems,  
Plymouth, NH 1992

American Society for Cell Biology: Minisymposium,  
Chromosome Structure and Movement, Denver, CO 1992

American Society for Cell Biology: Chromosome Structure and Segregation,  
Airlie, VA 1989  
American Society for Cell Biology: Minisymposium,  
Chromosome Structure and Function, Houston, TX 1989

**PATENTS:**

US005599919A  
Nucleic Acid Encoding a Transiently-Expressed Kinetochore  
Protein and Methods of Use, T. J. Yen and J. B. Rattner 1997  
US6593098B1  
Human mitotic checkpoint proteins associated at kinetochores and  
methods of use. T. J. Yen, G. K. T. Chan, and S. A. Jablonski 2003

**PREDOCTORAL/POSTDOCTORAL TRAINEES:**

Predoc - Past

Nadya Ladyguina, Ph.D., Postdoctoral Fellow, Cleveland Clinic, Cleveland, OH  
Hong Liao, Ph.D.: Present position, Daymon Runyon Fellow, Stanford University, Dr. Matt Scott  
Bruce Schaar, Ph.D.: Present position, Assistant Professor, Stanford University, Stanford, CA

Postdoc - Current

Vikram Bhattacharjee, Ph.D., Postdoctoral Associate  
Neil Beeharry, Ph.D., Postdoctoral Fellow  
Haomin Huang, Ph.D., Postdoctoral Fellow

Postdoc - Past

Song Tao Liu, Ph.D., Assistant Professor, Biological Sciences, University of Toledo, Toledo, OH  
Jie Feng Ph.D., Research Scientist, Shanghai Institute of Biochemistry, Shanghai, China.  
Sandra Jablonski, Ph.D., Research Assistant Professor, Lombardi Comprehensive Cancer Center,  
Washington, DC  
Valery Sudakin, Ph.D., Fulbright Scholar, Human Frontiers Postdoctoral Fellow, Lymphoma &  
Leukemia Scholar, Senior Scientist, Glaxo Smith Kline, Collegeville, PA  
Michael Campbell, Ph.D., Daymon Runyon Fellow, Director for Biotechnology Development and  
Coordinator, Bucks County Keystone Innovation Zone, Pennsylvania Biotechnology Center of Bucks  
County, Doylestown, PA  
Gordon Chan, Ph.D., Associate Professor, Cross Cancer Center, University of Alberta,  
Edmonton, Calgary, Canada  
Gary Kao M.D. Ph.D. Associate Professor, Department of Radiation Oncology,  
University of Pennsylvania, Philadelphia, PA.  
Dennis Gately, Ph.D. Senior Research Scientist, Eli Lilly, San Diego, CA.

## PUBLICATIONS

### Post-doctoral publications

- Gay, D.A., **Yen, T.J.**, Lau, J.T.Y., Cleveland, D.W. Sequences that confer  $\beta$ -tubulin autoregulation through modulated mRNA stability reside with Exon 1 of  $\beta$ -tubulin mRNA. *Cell* **50**:671-679, 1987.
- Joshi, H.C., Yen T.J., Cleveland, D.W. *In vivo* coassembly of divergent  $\beta$ -tubulin subunit ( $\text{c}\beta 6$ ) into microtubules of different function. *J. Cell. Biol.* **105**:2179-2190, 1987.
- Pachter, J.S., **Yen, T.J.**, Cleveland, D.W. Autoregulation of tubulin is achieved through specific degradation of polysomal tubulin mRNAs. *Cell* **51**:283-292, 1987.
- Yen, T.J.**, Gay, D.A., Pachter, J.S., Cleveland, D.W. Autoregulated changes in stability of polyribosome-bound  $\beta$ -tubulin mRNAs are specified by the first 13 translated nucleotides. *Mol. Cell. Biol.* **8**:1224-1235, 1988.
- Yen, T.J.**, Machlin, P.S., Cleveland, D.W. Autoregulated instability of polysome-bound  $\beta$ -tubulin mRNAs is achieved through recognition of the nascent amino-terminus of tubulin. *Nature* **334**:580-585, 1988.
- Gabriel, A., **Yen, T.J.**, Schwartz, D.C., Smith, C.L., Boeke, J.D., Sollner-Webb B., Cleveland, D.W. A rapidly rearranging retrotransposon within the miniexon gene locus of *Crithidia fasciculata*. *Mol. Cell. Biol.* **10**:615-624, 1990.
- Compton, D. A., **Yen, T.J.**, Cleveland, D.W. Identification of novel centromere/kinetochore associated proteins using monoclonal antibodies generated against human mitotic chromosome scaffolds. *J. Cell. Biol.* **112**:1083-1097, 1991.
- Yen, T.J.**, Compton, D.A., Wise, D., Zinkowski, R.P., Brinkley, B.R., Earnshaw, W.C., Cleveland, D.W. CENP-E, a novel human centromere associated protein required for progression from metaphase to anaphase. *EMBO J.* **10**:1245-1254, 1991.

### Publications as P.I.

- \***Yen, T.J.**, Li, G., Schaar, B., Szilak, I., Cleveland, D.W. CENP-E is a putative kinetochore associated motor that accumulates at mitosis. *Nature* **359**:536-540, 1992.
- Rattner, J.B., Rao, A., Fritzler, M.J., **Yen, T.J.** CENP-F is a ca. 400 kDa kinetochore protein that exhibits a cell-cycle dependent localization. *Cell Mot. Cytosk.* **26**:214-226, 1993.
- Brown, K.D., Coulson, R.M., **Yen, T.J.**, Cleveland, D. W. Cyclin-like accumulation and loss of the putative kinetochore motor CENP-E results from coupling continuous synthesis with specific degradation at the end of mitosis. *J. Cell Biol.* **126**:1303-1312, 1994.
- Liao, H., Li, G., **Yen, T.J.** Mitotic regulation of the microtubule crosslinking activity of CENP-E kinetochore protein. *Science*, **265**:394-398, 1994.
- Testa, J.R., Zhou, J.-Y., Bell D. W., **Yen, T.J.** Chromosomal localization of the genes encoding the kinetochore proteins CENP-E and CENP-F to human chromosomes 4q24→q25 and 1q32→q41, respectively by fluorescence *in situ* hybridization. *Genomics* **23**:691-693, 1994.
- Lombillo, V.A., Nislow, C., Yen T.J., Gelfand, V.I., McIntosh, J.R. Antibodies to the kinesin motor domain and CENP-E inhibit microtubule depolymerization-dependent motion of chromosomes *in vitro*. *J. Cell Biol.* **128**:107-116, 1995.
- Thrower, D.A., Jordan, M.A., Schaar, B.T., **Yen, T.J.**, Wilson, L. Mitotic HeLa cells contain a CENP-E-associated minus end-directed microtubule motor. *EMBO J.* **14**:918-926, 1995.
- Liao, H., Winkfein, R.J., Mack, G., Rattner, J.B., **Yen, T.J.** CENP-F is a protein of the nuclear matrix that assembles onto kinetochores at late G2 and is rapidly degraded after mitosis. *J. Cell. Biol.* **130**:507-518, 1995.
- Shafman, T., Khanna, K.K., Kedar, P., Spring, K., Kozlov, S., Yen, T., Hobson, K., Gatei, M., Zhang, N., Watters, D., Egerton, M., Shiloh, Y., Hkarbanda, S., Kufe, D., Lavin, M.F. Interaction between ATM protein and c-Abl in response to DNA damage. *Nature* **387**:520-523, 1997.

- Zhang, N., Chen, P., Khanna, K.K., Scott, S., Gatei, M., Kozlov, S., Watters, D., Spring, K., Yen, T., Lavin, M.F. Isolation of full-length ATM cDNA and correction of the ataxia-telangiectasia cellular phenotype. *Proc. Natl. Acad. Sci. USA* **94**:8021-8026, 1997.
- Cooke, C.A., Schaar, B.T., **Yen, T.J.**, Earnshaw, W.C. Localization of CENP-E in the fibrous corona and the outer plate of mammalian kinetochores from prometaphase to anaphase. *Chromosoma* **106**:446-455, 1997.
- \*Schaar, B.T., Chan, G.K.T., Maddox, P., Salmon, E.D. **Yen, T.J.** CENP-E function at kinetochores is essential for chromosome alignment. *J. Cell. Biol.* **139**:1373-1382, 1997.
- Chan, G.K.T., Schaar, B.T., **Yen, T.J.** Characterization of the kinetochore binding domain of CENP-E reveals interactions with the kinetochore proteins CENP-F and hBUBR1. *J. Cell Biol.* **143**:49-63, 1998.
- Gately, D.P., Hittle, J.C., Chan, G.K.T., and Yen, T. Characterization of ATM expression, localization and associated DNA-dependent protein kinase activity. *Mol. Biol. Cell.* **9**:2361-2374, 1998.
- Basu, J., Logarinho, E., Herrmann, S., Bousbaa, H., Li, Z.X., Chan, G.K.T., **Yen, T.J.**, Sunkel, C. E., and Goldberg, M. L. Localization of the *Drosophila* checkpoint control protein Bub3 to the kinetochore requires Bub1 but not Zw10 or Rod. *Chromosoma* **107**:376-385, 1998.
- Jablonski, S.A., Chan, G.K.T., Cooke, C.A., Earnshaw, W.C., and **Yen, T.J.** The hBUB1 and hBUBR1 kinases sequentially assemble onto kinetochores during prophase with hBUBR1 concentrating at the kinetochore places in mitosis. *Chromosoma* **107**:386-396, 1998.
- Zecevic, M., Catling, A.D., Eblen, S.T., Renzi, L., Hittle, J.C., **Yen, T.J.**, Gorbsky, G.J., Weber, M.J. Active MAP kinase in mitosis: Localization at kinetochores and association with the motor protein CENP-E. *J. Cell Biol.* **142**:1547-1558, 1998.
- \*Chan, G.K.T., Jablonski, S.A., Sudakin, V., Hittle, J.C., **Yen, T.J.** Human BUBR1 is a mitotic checkpoint kinase that monitors kinetochores and binds the cyclosome/APC. *J. Cell Biol.* **146**:941-954, 1999.
- Starr, D.A., Saffery, R., Li, Z., Simpson, A.E., Choo, K.H.A., **Yen, T.J.**, Goldberg, M.L. Hzwint-1, a novel human kinetochore component that interacts with HZW10. *J. Cell Sci.* **113**:1938-1950, 2000.
- \*Chan, G.K.T., Jablonski, S.A., Starr, D.A., Goldberg, M.L., **Yen, T.J.** Human ZW10 and ROD are mitotic checkpoint proteins that bind to kinetochores. *Nat. Cell Biol.* **2**:944-947, 2000.
- Sugata, N., Shulan L., Earnshaw, W.C., **Yen, T.J.**, Munekata, E., Yoda, K., Masumoto., H., Warburton, P.E., Todokoro, K. Human CENP-H multimers colocalize with CENP-A and CENP-C at active centromere-kinetochore complexes. *Human Mol. Genet.* **9**:2919-2926, 2000.
- Campbell, M.S., Chan, G.K.T., **Yen, T.J.** Mitotic checkpoint proteins HsMAD1 and HsMAD2 are associated with nuclear pore complexes in interphase. *J. Cell Sci.* **114**:953-963, 2001.
- Crespo, N.C, Ohkanda, J., **Yen, T.J.**, Hamilton, A.D., Sebt, S.M. The farnesyltransferase inhibitor, FTI-2153, blocks bipolar spindle formation and chromosome alignment and causes prometaphase accumulation during mitosis of human lung cancer cells. *J. Biol. Chem.* **276**:16161-16167, 2001.
- Kao, G. D., McKenna, W. G., **Yen, T.J.** Detection of repair activity during the DNA damage-induced G2 delay in human cancer cells. *Oncogene* **20**:3486-3496, 2001.
- Wang, X., Babu, J.R., Harden, J.M., Jablonski, S.A., Gazi, M.H., Lingle, W.L., de Groen, P.C., **Yen, T.J.**, van Deursen, J.M. The Mitotic checkpoint protein hBUB3 and the mRNA export factor hRAE1 Interact with GLE2p-binding sequence (GLEBS)-containing proteins. *J. Biol. Chem.* **276**:26559-26567, 2001.
- Marmorstein, L.Y., Kinev, A.V., Chan, G.K., Bochar, D.A., Beniya, H., Epstein, J.A., **Yen, T.J.**, Shiekhhattar, R. A human BRCA2 complex containing a structural DNA binding component influences cell cycle progression. *Cell* **104**:247-257, 2001.
- Daniel, R, Katz, R.A., Merkel, G., Hittle, J.C., **Yen, T.J.**, Skalka, A.M. Wortmannin potentiates integrase-mediated killing of lymphocytes and reduces the efficiency of stable transduction by retroviruses. *Mol. Cell. Biol.* **21**:1164-1172, 2001.

- Hoffman, D.B., Pearson, C.G., **Yen, T.J.**, Howell, B.J., Salmon, E.D. Microtubule-dependent changes in assembly of microtubule motor proteins and mitotic spindle checkpoint proteins at ptk1 kinetochores. *Mol. Biol. Cell* **12**:1995-2009, 2001.
- McEwen, B.F., Chan, G.K.T., Zubrowski, B., Savoian, M.S., Sauer, M.T., **Yen, T.J.** CENP-E is essential for reliable bioriented spindle attachment, but chromosome alignment can be achieved via redundant mechanisms in mammalian cells. *Mol. Biol. Cell* **12**:2776-1289, 2001.
- \*Sudakin, V., Chan, G.K.T., **Yen, T.J.** Checkpoint inhibition of the APC/C in HeLa cells is mediated by a complex of BUBR1, BUB3, CDC20, MAD2. *J. Cell Biol.* **154**:925-936, 2001.
- Van Hooser, A.A., Ouspenski, I.I., Gregson, H.C., Starr, D.A., **Yen, T.J.**, Goldberg, M.L., Yokomori, K., Earnshaw, W.C., Sullivan, K.F., Brinkley, B.R. Specification of kinetochore-forming chromatin by the histone H3 variant CENP-A. *J. Cell Sci.* **114**:3529-3542, 2001.
- Chaturvedi, P., Sudakin, V., Bobiak, M.L., Fisher, P.W., Mattern, M.R., Jablonski, S.A., Hurle, M.R., Zhu, Y., **Yen, T.J.**, Zhou, B.B. Chfr regulates a mitotic stress pathway through its RING-finger domain with ubiquitin ligase activity. *Cancer Res.* **62**:1797-1801, 2002.
- Parra, M.T., Page, J., **Yen, T.J.**, He, D., Valdeolmillos, A., Rufas, J.S., Suja, J.A. Expression and behaviour of CENP-E at kinetochores during mouse spermatogenesis. *Chromosoma* **111**(1):53-61, 2002.
- Nelson, D.M., Ye, X., Hall, C., Santos, H., Ma, T., Kao, G.D., **Yen, T.J.**, Harper, J.W., Adams, P.D. Coupling of DNA synthesis and histone synthesis in S phase independent of cyclin/cdk2 activity. *Mol. Cell. Biol.* **22**:7459-7472, 2002.
- Guenther, M.G., Yu, J., Kao G.D., Yen T.J., Lazar M.A. Assembly of the SMRT-histone deacetylase 3 repression complex requires the TCP-1 ring complex. *Genes Dev.* **16**:3130-3135, 2002.
- Daniel, R., Kao, G., Taganov, K., Greger, J., Favorova, O., Merkel, G., **Yen, T.J.**, Katz, R.A., Skalka, A.M. Evidence that the retroviral DNA integration process triggers an ATR-dependent DNA damage response. *Proc. Natl. Acad. Sci. U.S.A.* **100**:4778-4783, 2003.
- Liu, S.T., Hittle, J.C., Jablonski, S.A., Campbell, M.S., Yoda, K., **Yen, T.J.** Human CENP-I specifies localization of CENP-F, MAD1 and MAD2 to kinetochores and is essential for mitosis. *Nat. Cell Biol.* **5**:341-345, 2003.
- Kao, G.D., McKenna, W.G., Guenther, M.G., Muschel, R.J., Lazar, M.A., Yen, T.J. Histone Deacetylase 4 interacts with 53BP1 to mediate the DNA damage response. *J. Cell Biol.* **160**:1017-1027, 2003.
- Williams, B.C., Li, Z., Liu, S., Williams, E.V., Leung, G., **Yen, T.J.**, Goldberg, M.L. Zwlch, a New Component of the ZW10/ROD Complex Required for Kinetochore Functions. *Mol. Biol. Cell.* **14**(4):1379-1391, 2003.
- Liu, S.T., Chan, G.K., Hittle, J.C., Fujii, G., Lees, E., **Yen, T.J.**, Human MPS1 kinase is required for mitotic arrest induced by the loss of CENP-E from kinetochores. *Mol. Biol. Cell.* **14**:1638-1651, 2003.
- Fletcher, L., **Yen, T.J.**, Muschel, R.J. DNA damage in HeLa cells induced arrest at a discrete point in G(2) phase as defined by CENP-F localization. *Radiat. Res.* **159**(5):604-611, 2003.
- Jablonski, S.A., Liu, S.T., **Yen, T.J.** Targeting the kinetochore for mitosis-specific inhibitors. *Cancer Biol. Ther.* **2**:236-241, 2003.
- Simon, J.A, **Yen, T.J.** Novel approaches to screen for anticancer drugs using *Saccharomyces cerevisiae*. *Methods Mol. Biol.* **223**:555-576, 2003.
- Liu, S.T., van Deursen, J., **Yen, T.J.** The role of mitotic checkpoint in maintaining genome stability. *Curr. Top.Dev. Biol.* **58**:27-51, 2003.

- Garcia-Saez, I., **Yen, T.**, Wade, R.H., Kozielski, F. Crystal structure of the motor domain of the human kinetochore protein CENP-E. *J. Mol. Biol.* **340**:1107-1116, 2004.
- Joseph, J., Liu, S. T., Jablonski, S.A., Yen T.J., Dasso, M. The RanGAP1/RanBP2 complex is essential for microtubule-kinetochore interactions in vivo. *Curr. Biol.* **14**(7):611-617, 2004.
- Sudakin, V., Yen, T.J. Purification of the mitotic checkpoint complex, an inhibitor of the APC/C from HeLa cells. *Methods Mol. Biol.* **281**:199-212, 2004.
- Bertos, N.R., Gilquin, B., Chan, G.K., **Yen, T.J.**, Khochbin, S., Yang, X.J. Role of the tetradecapeptide repeat domain of human histone deacetylase 6 in cytoplasmic retention. *J. Biol. Chem.* **279**(46):48246-48254, 2004.
- Mollinari, C., Kleman, J.P., Saoudi, Y., Jablonski, S.A., Perard, J., **Yen, T.J.**, Margolis, R.L. Related ablation of PRC1 by small interfering RNA demonstrates that cytokinetic abscission requires a central spindle bundle in mammalian cells, whereas completion of furrowing does not. *Mol. Biol. Cell* **16**(3):1043-1055, 2005.
- Hsu, T.C., Chang, C.H., Lin, M.C., Liu, S.T., **Yen, T.J.**, Tsay, G.J. Anti-CENP-H antibodies in patients with Sjogren's syndrome. *Rheumatol. Int.* **26**(4):298-303, 2005.
- Robbins, A.R., Jablonski, S.A., **Yen, T.J.**, Yoda, K., Robey, R., Bates, S.E., Sackett, D.L. Inhibitors of histone deacetylases alter kinetochore assembly by disrupting pericentromeric heterochromatin. *Cell Cycle.* **4**(5):717-26, 2005.
- Fletcher, L., Cerniglia, G.J., **Yen, T.J.**, Muschel, R.J. Live cell imaging reveals distinct roles in cell cycle regulation for Nek2A and Nek2B. *Biochim. Biophys. Acta.* **1744**(2):89-92, 2005.
- Chan, G.K., Liu, S.T., **Yen, T.J.** Kinetochore structure and function. *Trends Cell Biol.* **15**(11):589-598, 2005.
- Kao G., **Yen, T.J.** Mitotic checkpoints aneuploidy and cancer. In: Genome Instability in Cancer Development, Advances in Experimental Medicine and Biology, edited by E.A. Nigg. Springer, vol. 570, pp. 477-499, 2005.
- Feng, J., Huang, H., **Yen, T.J.** CENP-F is a novel microtubule-binding protein that is essential for kinetochore attachments and affects the duration of the mitotic checkpoint delay. *Chromosoma* **115**:320-329, 2006.
- Liu, S.-T., Rattner, J.B., Jablonski, S.A., **Yen, T.J.** Mapping the assembly pathways that specify formation of the trilaminar kinetochore plates in human cells. *J. Cell Biol.* **175**:41-53, 2006.
- Zhang, R., Liu, S.T., Chen, W., Bonner, M., Pehrson, J., **Yen, T.J.**, Adams, P.D. HP1 proteins are essential for a dynamic nuclear response that rescues the function of perturbed heterochromatin in primary human cells. *Mol. Cell Biol.* **27**:949-962, 2007.
- Huang, H., Feng, J., Famulski, J., Rattner, J.B., Liu, S.T., Kao, G.D., Muschel, R., Chan, G.K.T., **Yen, T.J.** Tripin/hSgo2 recruits MCAK to the inner centromere to correct defective kinetochore attachments. *J. Cell Biol.* **177**:413-424, 2007.
- Zuccolo, M., Alves, A., Galy, V., Bolhy, S., Formstecher, E., Racine, V., Sibarita, J, Fukagawa, T., Shiekhatar, R., **Yen, T.J.**, Doye, V. The human Nup107-160 nuclear pore sub-complex contributes to proper kinetochore functions. *EMBO J.* **26**:1853-1864, 2007.
- Matthew, E.M., **Yen, T.J.**, Dicker, D.T., Dorsey, J.F., Yang, W., Navaraj A., El-Deiry, W.S. Replication stress, defective S-phase checkpoint and increased death in Plk2-deficient human cancer cells. *Cell Cycle* **6**:2571-2578, 2007.
- Huang, H., Fletcher, L., Beeharry, N., Daniel, R., Kao, G., **Yen, T.J.**, Muschel, R.J. Abnormal cytokinesis after X irradiation in tumor cells that override the G2 DNA damage checkpoint. *Cancer Res.* **68**:3724-3732, 2008.
- Eytan, E., Braunstein, I., Ganoth, D., Teichner, A., Hittle, J.C., **Yen, T.J.**, Hershko, A. Two different mitotic checkpoint inhibitors of the anaphase-promoting complex/cyclosome

- antagonize the action of the activator Cdc20. *Proc. Natl. Acad. Sci. USA* **105**:9181-9185, 2008.
- Zhang, X.D., Goeres J., Zhang, H., **Yen, T.J.**, Porter, A.C., Matunis, M.J. SUMO-2/3 modification and binding regulate the association of CENP-E with kinetochores and progression through mitosis. *Mol. Cell* **29**:729-741, 2008.
- Du, J., Jablonski, S., **Yen, T.J.**, Hannon, G.J. Astrin regulates Aurora-A localization. *Biochem. Biophys. Res. Commun.* **370**:213-219, 2008.
- Huang, H., Hittle, J., Zappacosta, F., Annan, R.S., Hershko, A., **Yen, T.J.** Phosphorylation sites in BubR1 that regulate kinetochore attachment, tension, and mitotic exit. *J. Cell Biol.* **183**:667-680, 2008.
- Liu, S.T., **Yen T.J.** The kinetochore as target for cancer drug development. *In The Kinetochore from Molecular Discoveries to Cancer Therapy*, edited by P. De Wulf and W.C. Earnshaw, Springer 2008.

#### **SOLICITED REVIEWS & TECHNICAL ARTICLES:**

- Cleveland, D.W., **Yen, T.J.** Multiple determinants of eukaryotic mRNA stability. *The New Biologist* **1**:121-126, 1989.
- Yen, T.J.** Motor proteins in mitosis and meiosis. *In: The Cytoskeleton: Structure and Assembly* (Hesketh, J.E., Pryme, Z.F., eds.) JAI, publisher, Volume 1, pp. 87-122, 1995.
- Yen, T.J.**, Schaar, B.T. Kinetochore function: Molecular Motors, Switches and Gates. *Curr. Opin. Cell Biol.* **8**:381-388, 1996.
- Chan, G.K., Yen, T.J. The mitotic checkpoint: A signaling pathway that allows a single unattached kinetochore to inhibit mitotic exit. Chapter 43 (Meijer, L., Jézéquel, A., Roberge, M., eds.), *Prog. Cell Cycle Res.* **5**:431-439, 2003.
- Simon, J.A., **Yen, T.J.** Methods in Molecular Biology, Vol. 223. *In: Tumor Suppressor Genes: Regulation, Function, and Medicinal Applications.* Ed. Wafik S. El-Deiry. Human Press, Inc., Totowa, NJ, 2003.
- Sudakin, V., Yen, T.J. Purification of the mitotic checkpoint complex, an inhibitor of the APC/C from HeLa cells. *Methods Mol. Biol.* **281**:199-212, 2004.
- Chan, G.K.T., Liu, S.T., **Yen, T.J.** Kinetochore Structure and Function. *Trends Cell Biol.* **15**:589-598, 2005.
- Yen, T.J.** Polo delivers a PICH to the kinetochore. *Cell* **128**:20-21, 2007.
- Sudakin, V., **Yen, T.J.** Targeting mitosis for anti-cancer therapy. *BioDrugs* **21**:225-233, 2007.
- Beeharry, N., **Yen, T.J.** p53-dependent apoptosis in response to spindle damage linked to loss of Bub1. *Cancer Biol. Ther.* **8**:(Epub ahead of print) Paper was not peer-reviewed.