

Hiroshi Y. Yamada, PhD

Assistant Professor of Research



SECTION: Hematology/Oncology (Medical Oncology)
Degree: Biophysics/Molecular Genetics
ADDRESS: 975 NE. 10th St. BRC1207
Oklahoma City, OK 73104
OFFICE PHONE: 405-271-3224 ext 32524
FAX: 405-271-3225
E-MAIL: E-mail: [Dr. Hiroshi Yamada](mailto:Dr.HiroshiYamada)

Dr. Yamada's studies in mitosis and Chromosome Instability (CIN) issues, which are highly relevant to Oncology, began back in his graduate school days in Kyoto University (Kyoto, Japan) with a leading scientist in the field. After he obtained PhD, he extended his research at Albert Einstein College of Medicine (AECOM) (Bronx, NY), OU Health Sciences Center (OUHSC) and Oklahoma Medical Research Foundation (OMRF) (OKC, OK). He holds Assistant Professor of Research position in the OUHSC.

EDUCATION:

- 1992 B.S. [Biology] Kyoto University, Kyoto, Japan
- 1994 M.S. [Biophysics/Molecular Genetics] Kyoto University Graduate School of Science, Kyoto, Japan
- 1998 [Biophysics/Molecular Genetics] Kyoto University Graduate School of Science, Kyoto, Japan
- 1998-2000 Postdoctoral training, Department of Rad/Onc and Cell Biology, Albert Einstein College of Medicine, Bronx, NY
- 2000-2003 Postdoctoral training, Department of Cell Biology, Univ. of Okla. Health Science Center, Oklahoma City, OK

RESEARCH INTERESTS:

- Mitosis
- Oncology
- Anti-Mitotic Chemotherapy Drugs and the gene network
- Biochemistry of Ubiquitin/proteasome system
- Colon Cancer
- Translational Cancer Research

Relevant PUBLICATIONS:

- **H.Y. Yamada**, Y. Yao, X. Wang, Y. Zhang, Y. Huang, W. Dai and C.V. Rao (2012) "Haploinsufficiency of SGO1 results in deregulated centrosome dynamics, enhanced chromosomal instability and colon tumorigenesis" *Cell cycle*, 11 (3) (Feb 1), 479-488 [article is featured in the cover; accompanied with two News and Views articles in *Cell Cycle*]
- **H.Y. Yamada** (2012) "TRRAP/TIP60 complex (Human NuA4 complex) and cancer", *Colorectal Cancer Biology - From Genes to Tumor* (ISBN 979-953-307-252-3, InTech press) [Book Chapter]
- **H.Y. Yamada** and C.V. Rao (2010). "Genes that modulate the sensitivity for anti-microtubule drug-mediated chemotherapy" *Current Cancer Drug Target*, 10(6):623-33 Review
- C.V. Rao, **H.Y. Yamada**, Y. Yao and W. Dai (2009) "Enhanced genomic instabilities caused by deregulated microtubule dynamics and chromosome segregation: a perspective from genetic studies in mice" *Carcinogenesis*, 30(9):1469-74. Review

- **H.Y. Yamada** and C.V. Rao. (2009) "Brd8 is a chemosensitizing target for spindle poisons in colorectal cancer therapy" *International Journal of Oncology*, 35: 1101-1109.
- **H.Y. Yamada** and G.J. Gorbsky. (2006) "Cell-based expression cloning for identification of polypeptides that hypersensitize mammalian cells to mitotic arrest" *Biological Procedures Online*, 8(1):36-43.
- **H.Y. Yamada** and G.J. Gorbsky (2006) "Inhibition of TRIP1/S8/hSUG1, a component of the human 19S proteasome, enhances mitotic apoptosis induced by spindle poisons" *Molecular Cancer Therapeutics*, 5(1) 29-38.
- **H.Y. Yamada** and G.J. Gorbsky (2006) "Tumor Suppressor Candidate TSSC5 is regulated by Ubch6 and a novel ubiquitin ligase RING105" *Oncogene*, 25, 1330-1339.
- **H.Y. Yamada** and G.J. Gorbsky. (2006) "Spindle checkpoint function and cellular sensitivity to antimitotic drugs", *Molecular Cancer Therapeutics*. 5(12): 2963-9. Review
- **H.Y. Yamada**, S. Matsumoto and T. Matsumoto (2000) "High dosage expression of a zinc finger protein, Grt1, suppresses a mutant of fission yeast slp1+, a homolog of CDC20/p55CDC/Fizzy" *J Cell Sci.*, 113 (22), 3989-3999.
- **H. Yamada**, K. Kumada and M. Yanagida (1997) "Distinct subunit functions and cell cycle regulated phosphorylation of 20S APC/cyclosome required for anaphase in fission yeast" *J. Cell Sci.*, 110, 1793-1804.
- Y.M. Yamashita, Y. Nakaseko, I. Samejima, K. Kumada, **H. Yamada**, D. Michaelson and M. Yanagida (1996) "20S cyclosome complex formation and proteolytic activity inhibited by the cAMP/PKA pathway" *Nature*, 384, 276-279.
- K. Takahashi, **H. Yamada**, and M. Yanagida (1994) "Fission Yeast Minichromosome Loss Mutants mis Cause Lethal Aneuploidy and Replication Abnormality" *Mol. Biol. Cell*, 5, 1145-1158.