

Publications

Ma O, Chong WG, Lee JKE, Chen JK, Chong CYY, Cai S, Siebert A, Howe A, Zhang P, Shi J, Surana U, Gan L (2022)

Cryo-ET detects bundled triple helices but not ladders in meiotic budding yeast

PLoS One 17(4):e0266035

Ang GCK, Gupta A, Yap SXL, Surana U and Taneja R (2022)

Potential Therapeutics Targeting Upstream Regulators and Interactors of EHMT1/2

Cancers 14:2885

Yam CQX, Chia DB, Shi I, Lim HH* and Surana U* (2020)

Dun1, a Chk2-related kinase, is the central regulator of securin-separase dynamics during DNA damage signaling

Nucleic Acids Research 2020 Jun 19;48(11):6092-6107. doi: 10.1093/nar/gkaa355.

Low DE, Tang MM, Surana U, Lee JY, Pramono ZAD, Leong KF (2019)

H syndrome - the first report in Malaysia

Int J Dermatol. 2019 Jun 13. doi: 10.1111/ijd.14518.

Leong KF, Sato R, Surana U, Pramono ZAD (2019)

Blau Syndrome associated with nucleotide-binding oligomerization domain containing 2 mutation in a baby from Malaysia

Ind J Dermatology 64:400-403

Ruan W*, Venkatachalam G*, Sobota RM, Chen L, Wang LC, Jacobson A, Paramsivam K and Surana U (2019)

Resistance to anti-microtubule drug-induced cell death is determined by regulation of BimEL expression

Oncogene 38:4352-4365

Ruan W, Lim HH and Surana U (2019)

Mapping mitotic death: Functional integration of mitochondria, spindle assembly checkpoint and apoptosis

Frontiers Cell Dev Biol 6:117

Ng CT, Li D, Chen C, Lim HH, Jian Shi J, Surana U, and Gan L (2019)

Electron cryotomography analysis of Dam2C/DASH at the kinetochore-spindle interface in situ

J Cell Biol 218:455-473

Kannan S, Venkatachalam G, Lim HH, Surana U, Verma C (2018)

Conformational landscape of Epidermal growth factor receptor kinase reveals a mutant specific allosteric pocket

Chemical Science 9:5212-5222

Lin J, Lee JJH, Paramasivam K, Pathak E, Wang Z, Pramono ZAD, Lim B, Wee KB and Surana U (2017)

Nonsense-mediated decay of glycine decarboxylase transcripts as an anticancer therapeutic strategy for non-small cell lung carcinoma

Molecular Therapy N. A. 9:263-273

Venkatachalam G, Surana U and Clément M-V (2017)

Replication stress-induced endogenous DNA damage drives cellular senescence induced by a sub-lethal oxidative stress

Nuclei Acids Research 45:10564-10582

Radiono S *, Pramono ZAD *, Oh GGK, Surana U, Widiyani S, Danarti R (2017)

Identification of Novel Homozygous SLURP1 Mutation in a Javanese Family with Mal de Meleda

International Journal of Dermatology 56:1161-1168

Her Z, Yong KSM, Paramasivam Kathirvel, Tan WWS, Liu M, Chan XY, Tan SY, Man HK, Surana U*, and Chen Q* (2017)

An improved pre-clinical patient-derived liquid xenograft mouse model for acute myeloid leukemia

Journal of Hematology and Oncology 10:162-176

Chen C, Lim HH, Shi J, Tamura S, Maeshima K, Surana U and Gan L (2016)

Budding yeast chromatin is dispersed in a crowded nucleoplasm.

Mol Biol Cell 27:3357-3368

Zhang T, Si-Hoe SL, Hudson DF and Surana U (2016)

Condensin recruitment to chromatin is inhibited by checkpoint kinase Chk2 in response to DNA damage

Cell Cycle (In press)

Liang H, Esposito A, De S, Ber S, Collin P, Surana U, Venkitaraman AR (2014)
Homeostatic control of polo-like kinase-1 engenders non-genetic heterogeneity in G2
checkpoint fidelity and timing
Nature Commun 5:4048.

Yu H, Lim HH et al. (2014)
Chaperoning HMGA2 protein protects stalled replication forks in stem and cancer cells
Cell Rep 6:684-697

Khong J.H., Zhang T., Gunaratne J., Blackstock W. and Surana U. (2012)
'Reductional anaphase' in replication defective cells is caused by ubiquitin conjugating
enzyme Cdc34-mediated deregulation of the spindle
Cell Cycle 11:2896-2910

Surana U., Liang H. and Lim H.H. (2012)
Staging a recovery from mitotic arrest
BioArchitecture 2:33-37.

Wee K.B., Yio W.K., Surana U., Chiam K.H. (2012)
Transcription factor oscillations induce differential gene expressions
Biophysical J 102:2413-2423

Liang H., Lim H.H., Venkitaraman A. and Surana U. (2012)
Cdk1 promotes kinetochore bi-orientation and regulates Cdc20 expression during recovery
from spindle checkpoint arrest
EMBO J 31:403-416.

Surana U and Lim H.H. (2011)
Suppressive side of yeast cyclins
Cell Cycle 15;10(18).

Davey G, Wu B., Dong Y., Surana U. and Davey C. (2010)
DNA stretching in the nucleosome facilitates alkylation by an intercalating antitumour Agent
Nucleic Acids Research 38:2081-2088.

Phong M.S., Van-Horn R.D., Li S., Tucker-Kellogg G., Surana U. and Ye X.S. (2010)
The p38 MAPK promotes cell survival but is not required for G2 checkpoint arrest of cancer
cells in response to DNA damage
Mol. Cell. Biol. 30:3816-3826

Zhang T., Nirantar S., Lim H. H., Sinha I., and Surana U. (2009)
DNA damage checkpoint maintains Cdh1 in active state to inhibit anaphase progression
Developmental Cell, 17:541-551.

Lim H. H., Zhang T. and Surana U (2009)
Regulation of Centrosome Separation in yeast and vertebrates: common threads
Trends in Cell Biology, 19:325-333.

Keng B. N., Surana U, Aguda B. (2009)
Oscillation of the p53-Akt Network: Implication on cell survival and death
PLoS One 4(2):e4407.

Dhar P. K., Thwin C.S., Tun K., Tsumoto Y., Maurer-Stroh, S., Eisenhaber F. and Surana U. (2009)
Synthesizing non-native parts from native genome
J. Biol. Eng. 3(1):2.

Crasta K., Lim H. H., Zhang T., Nirantar S. And Surana U. (2008)
Consorting kinases, end of destruction and birth of a spindle.
Cell Cycle 7:2960-2966.

Crasta K., Lim H. H., T. H. Giddings Jr, M. Winey and Surana U. (2008)
Inactivation of Cdh1 by synergistic action of Cdk1 and Polo kinase is necessary for proper assembly of mitotic spindle
Nature Cell Biology 10: 665-675.

Dong Y., Ng W. K., Surana U., Tan, R. (2008)
Solvabilisation and preformulation of poorly water soluble and hydrolysis susceptible N-epoxymethyl-1,8-naphthalimide (ENA) compound
International Journal of Pharmaceutics 356 (1-2):130-136.

Krishnan V., Dirick L., Lim H. H., Lim T. S. J., Si-Hoe S. L., Cheng C. S., Yap K., Ting A., Schwob E. and Surana U. (2007)
A small molecule inhibitor of cell cycle that irreversibly stalls replication forks and activates S phase checkpoint.
Cell Cycle 6 (issue 13)

Crasta K. and Surana U. (2006)
Disjunction of conjoined twins: Cdk1, Cdh1 and separation of centrosomes.
BMC-Cell Division (BioMed Central) 1:12.

Crasta K., Huang P., Morgan G., Winey M. and Surana U. (2006).
Activated Cdk1 promotes centrosome separation by preventing Cdh1-mediated proteolysis
of microtubule associated proteins.
EMBO J. 25:2551-2563

Zhang Tao, Lim H. H., Cheng C. S. and Surana U. (2006)
Deficiency of centromere-associated protein Slk19 causes premature nuclear migration and
loss of centromeric elasticity.
J. Cell Science 119:519-531.

Padmashree C. G. and Surana U. (2005)
Cdc42-mediated Bud Site Assembly in Yeast is Independent of Its GDP/GTP Exchange
Factor Cdc24 but Requires COPI Coatamer Complex.
E. J. Cell Biol. 84:939-49.

Krishnan V. and Surana U. (2005)
Taming the spindle for containing the chromosomes.
Cell Cycle 4(3): e68-e71

Tan L. C. A., Padmashree C. G. R. and Surana U. (2005)
Essential tension and constructive destruction: the spindle checkpoint and its regulatory links
with mitotic exit.
Biochem J. 386(1):1-13

Krishnan V., Nirantar S., Crasta K., Cheng A. Y. H. and Surana U. (2004)
DNA-Replication Checkpoint prevents precocious chromosome segregation by regulating
spindle dynamics
Mol. Cell 16:687-700

Lim H. H., Yeong F. M. and Surana U. (2003)
Inactivation of mitotic kinase triggers translocation of MEN components to mother-daughter
neck in yeast
Mol. Biol Cell 14:4734-4743

Lim H. H. and Surana U. (2003)
Tome-1, wee1 and onset of mitosis: coupled destruction for timely entry
Mol. Cell 11:845-846

Chawla, G., Sapra, A., Surana U., and Vijayraghavan U. (2003)
Dependence of Pre-mRNA introns on PRP17, a non-essential slicing factor: implication for efficient progression through cell cycle transition
Nucleic Acid Res. 31:2333-2343

Yeong F. M., Lim H. H. and Surana U. (2002)
MEN, destruction and segregation: Mechanistic link between mitotic exit and Cytokinesis in budding yeast *BioEssays* 24:659-666.

Yeong F. M., Lim, H. H., Wang, Y. and Surana U. (2001)
Early expressed Clb proteins allow accumulation of mitotic cyclin by inactivating proteolytic machinery during S phase
Mol. Cell. Biol., 21:5071-5081.

Padmeshree C. G. and Surana U. (2001)
Cdc28-Clb kinase negatively regulates bud-site assembly in the budding yeast
J. Cell Sci. 114:207-218.

Balasubramanian, M. K., McCollum, D. and Surana, U. (2000)
Tying the Knot: Linking cytokinesis to the nuclear division
J. Cell Sci. 113:1503-1513.

Yeong F. M., Lim H. H., Padmeshree, C. G. and Surana U. (2000)
Exit from mitosis in budding yeast: biphasic inactivation of mitotic kinase and the role of Cdc20.
Mol. Cell 5:501-511.

Goh, P-Y., Lim H. H. and Surana, U. (2000)
Cdc20 proteolysis in G1 requires a destruction box but, unlike Clb2, is not acutely dependent on the activity of Anaphase-Promoting Complex.
Eur. J. Biochem. 267:434-449.

Goh, P-Y. and Surana, U. (1999)
Cdc4, a protein required for the initiation of S phase, plays an essential role during G2/M transition in *Saccharomyces cerevisiae*.
Mol. Cell. Biol. 19:5512-5522.

Loy, C. J., Lydall, D. and Surana, U. (1999)
NDD1, a high dosage suppressor of cdc28-1N, is required for the expression of a subset of late S phase-specific genes in *Saccharomyces cerevisiae*.
Mol. Cell. Biol. 19:3312-3327.

Lim, H. H., Goh, P-Y. and Surana, U. (1998)
Cdc20 is essential for the APC-mediated proteolysis of both Pds1 and Clb2 during M phase in budding yeast.
Curr. Biol. 8:231-234.

Dick, T., Surana, U. and Chia, W. (1996).
Molecular and genetic characterization of SLC1, a putative *Saccharomyces cerevisiae* homolog of the metazoan cytoplasmic dynein light chain 1.
Mol. Gen. Genet. 251:38-43.

Lim, H. H. and Surana, U. (1996).
Cdc20, β-transducin homolog, links RAD9-mediated G2/M checkpoint control to mitosis in *Saccharomyces cerevisiae*.
Mol. Gen. Genet. 253:138-148.

Christensen, H. E. M., Ramachandran, S., Tan, C-T., Surana, U., Dong, C-H. and Chua, N-H. (1996).
Arabidopsis profilins are functionally similar to yeast profilins: identification of a vascular bundle-specific profilin and a pollen specific profilin.
The Plant Journal. 10(2):269-279.

Lim, H. H., Goh, P-Y. and Surana, U. (1996).
Spindle pole body separation in *S. cerevisiae* requires dephospho- rylation of Tyr19 residue of Cdc28.
Mol. Cell. Biol. 16:6385-6397.

Lim, H. H., Loy, C. J., Zaman S. and Surana, U. (1996).
Dephosphorylation of Threonine169 of Cdc28 is not required for the exit from mitosis but may be necessary for Start in *Saccharomyces cerevisiae*.
Mol. Cell. Biol. 16:4573-4583.

Surana, U., Amon, A., Dowzer, C., McGrew, J., Byers, B. and Nasmyth, K. (1993).
Destruction of the Cdc28/Clb mitotic kinase is not required for the metaphase to anaphase

transition in budding yeast.

EMBO J. 12:1969-1978.

Fitch, I., Dahmann, C., Surana, U., Amon, A., Nasmyth, K., Goetsch, L., Byers, B. and Futcher, B. (1992). Characterisation of four B-type cyclin genes of the budding yeast *Saccharomyces cerevisiae*.

Mol. Biol. Cell 3:805-818.

Amon, A., Surana, U., Muroff, I. and Nasmyth, K. (1992)

Regulation of p34cdc28 tyrosine phosphorylation is not required for the entry into mitosis in *S. cerevisiae*.

Nature 355:368-371.

Nasmyth, K., Dirick, L., Surana, U., Amon, A. and Cvrckova, F. (1991).

Some facts and thoughts on cell cycle regulation in yeast.

Cold Spring Harbor Symp. Quant. Biol. 56:9-20.

Moll, T., Tebb, G., Surana, U., Robitsch, H. and Nasmyth K. (1991).

The role of phosphorylation and the CDC28 protein kinase in cell cycle-regulated nuclear import of the *S. cerevisiae* transcription factor SWI5.

Cell 66:1-20.

Surana, U., Robitsch, H., Price, C., Schuster, T., Fitch I., Futcher, A. B. and Nasmyth, K. (1991)

The role of CDC28 and cyclins during mitosis in the budding yeast *Saccharomyces cerevisiae*.

Cell 65:145-161.

Thwaites, J. J. and Surana U. (1990)

Mechanical properties of *Bacillus subtilis* cell wall: effects of removing residual culture medium.

J. Bacteriol. 173:197-203.

Thwaites, J. J., Surana, U. and Jones A. M. (1990).

Mechanical properties of *Bacillus subtilis* cell wall: Effects of ions and lysozyme

J. Bacteriol. 173:204-210.

Surana, U., Wolfe, A. J. and Mendelson, N. H. (1988)

Regulation of *Bacillus subtilis* macrofiber twist development by alanine.

J. Bacteriol. 170:2328-2335.

Monod, M., Misaghi, I. G., Mendelson, N. H. and Surana, U. (1986)
Induction of frenching like symptoms in tobacco Macrophomina Phaseolin and its
metabolites.

Physiol. Mol. Plant Pathol. 29:19-25.

Mendelson, N. H., Thwaites, J. J., Farve, D., Surana, U., Briehl, M. M., and A. Wolfe. (1985)
Factors contributing to helical shape determination in *Bacillus subtilis* macrofibers.
Ann. Inst. Pasteur Microbiol. 136A:99-103.