

Publications

2024

1. Wu, C. K., Shiu, J. L., Wu, C. L., Hung, C. F., Ho, Y. C., Chen, Y. T., Tung, S. Y., Yeh, C. F., Shen, C. H., Liaw, H. & Su, W. P. (2024).

APLF facilitates interstrand DNA crosslink repair and replication fork protection to confer cisplatin resistance.

Nucleic Acids Research, **52**(10), 5676–5697.

(Article, Peer-reviewed)

2023

2. Guh, C. L., Lei, K. H., Chen, Y. A., Jiang, Y. Z., Chang, H. Y., Liaw, H., Li, H. W., Yen, H. Y. & Chi, P. (2023).

RAD51 paralogs synergize with RAD51 to protect reversed forks from cellular nucleases.

Nucleic Acids Research, **51**(21), 11717–11731.

(Article, Peer-reviewed)

2022

3. Wu, C. K., Wei, M. T., Wu, H. C., Wu, C. L., Wu, C. J., Liaw, H. & Su, W. P. (2022).

BMP2 promotes lung adenocarcinoma metastasis through BMP receptor 2-mediated SMAD1/5 activation.

Scientific Reports, **12**, 16310.

(Article, Peer-reviewed)

4. Hsieh, C. C., Hsu, S. H., Lin, C. Y., Liaw, H. J., Li, T. W., Jiang, K. Y., Chiang, N. J., Chen, S. H., Lin, B. W., Chen, P. C., Chan, R. H., Lin, P. C., Yeh, Y. M. & Shen, C. H. (2022).

CHK2 activation contributes to the development of oxaliplatin resistance in colorectal cancer.

British Journal of Cancer, **127**(9), 1615–1628.

(Article, Peer-reviewed)

5. Ho, Y. C., Ku, C. S., Tsai, S. S., Shiu, J. L., Jiang, Y. Z., Miriam, H. E., Zhang, H. W., Chen, Y. T., Chiu, W. T., Chang, S. B., Shen, C. H., Myung, K., Chi, P. & Liaw, H. (2022).

PARP1 recruits DNA translocases to restrain DNA replication and facilitate DNA repair.

PLOS Genetics, **18**(12), e1010545.

(Article, Peer-reviewed)

2020

6. Shiu, J. L., Wu, C. K., Chang, S. B., Sun, Y. J., Chen, Y. J., Lai, C. C., Chiu, W. T., Chang, W. T., Myung, K., Su, W. P. & Liaw, H. (2020).

The HLTF–PARP1 interaction in the progression and stability of damaged replication forks caused by methyl methanesulfonate.

Oncogenesis, **9**(12), 104.

(Article, Peer-reviewed)

2018

7. Wu, W. S., Tu, H. P., Chu, Y. H., Nordling, T. E. M., Tseng, Y. Y. & Liaw, H. J. (2018).

YHMI: A web tool to identify histone modifications and histone/chromatin regulators from a gene list in yeast.

Database, **2018**.

(Article, Peer-reviewed)

2017

8. Su, W. P., Ho, Y. C., Wu, C. K., Hsu, S. H., Shiu, J. L., Huang, J. C., Chang, S. B., Chiu, W. T., Hung, J. J., Liu, T. L., Wu, W. S., Wu, P. Y., Su, W. C., Chang, J. Y. & Liaw, H. (2017).

Chronic treatment with cisplatin induces chemoresistance through the TIP60-mediated Fanconi anemia and homologous recombination repair pathways.

Scientific Reports, **7**, 3879.

(Article, Peer-reviewed)

9. Hung, C. Y., Wang, Y. C., Chuang, J. Y., Young, M. J., Liaw, H., Chang, W. C. & Hung, J. J. (2017).

Nm23-H1-stabilized hnRNPA2/B1 promotes internal ribosomal entry site (IRES)-mediated translation of Sp1 in the lung cancer progression.

Scientific Reports, **7**, 9166.

(Article, Peer-reviewed)

10. Lee, D., An, J., Park, Y. U., Liaw, H., Woodgate, R., Park, J. H. & Myung, K. (2017).

SHPRH regulates rRNA transcription by recognizing the histone code in an mTOR-dependent manner.

Proceedings of the National Academy of Sciences of the United States of America (PNAS), **114**(17), E3424–E3433.

(Article, Peer-reviewed)

2016

11. Su, W. P., Hsu, S. H., Chia, L. C., Lin, J. Y., Chang, S. B., Jiang, Z. D., Lin, Y. J., Shih, M. Y., Chen, Y. C., Chang, M. S., Yang, W. B., Hung, J. J., Hung, P. C., Wu, W. S., Myung, K. & Liaw, H. (2016).

Combined interactions of plant homeodomain and chromodomain regulate NuA4 activity at DNA double-strand breaks.

Genetics, **202**(1), 77–92.

(Article, Peer-reviewed)

12. Wang, Y. C., Wang, S. A., Chen, P. H., Hsu, T. I., Yang, W. B., Chuang, Y. P., Su, W. C., Liaw, H. J., Chang, W. C. & Hung, J. J. (2016).

Variants of ubiquitin-specific peptidase 24 play a crucial role in lung cancer malignancy.

Oncogene, **35**(28), 3669–3680.

(Article, Peer-reviewed)

2015

13. Huang, C. L., Pu, P. H., Huang, H. J., Sung, H. M., Liaw, H. J., Chen, Y. M., Chen, C. M., Huang, M. B., Osada, N., Gojobori, T., Pai, T. W., Chen, Y. T., Hwang, C. C. & Chiang, T. Y. (2015).

Ecological genomics in *Xanthomonas*: The nature of genetic adaptation with homologous recombination and host shifts.

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14. Su, W. P., Hsu, S. H., Wu, C. K., Chang, S. B., Lin, Y. J., Yang, W. B., Hung, J. J., Chiu, W. T., Tzeng, S. F., Tseng, Y. L., Chang, J. Y., Su, W. C. & Liaw, H. (2014).

Chronic treatment with cisplatin induces replication-dependent sister chromatid recombination to confer cisplatin-resistant phenotype in nasopharyngeal carcinoma.

Oncotarget, **5**(15), 6323–6337.

(Article, Peer-reviewed)

15. Chai, K. M., Wang, C. Y., Liaw, H. J., Fang, K. M., Yang, C. S. & Tzeng, S. F. (2014).

Downregulation of BRCA1-BRCA2-containing complex subunit 3 sensitizes glioma cells to temozolomide.

Oncotarget, **5**(21), 10901–10915.

(Article, Peer-reviewed)

16. Yang, W. B., Chen, P. H., Hsu, T. I., Fu, T. F., Su, W. C., Liaw, H., Chang, W. C. & Hung, J. J. (2014).

Sp1-mediated microRNA-182 expression regulates lung cancer

progression.

Oncotarget, **5**(3), 740–753.

(Article, Peer-reviewed)

17. Hung, P. C., Yang, T. H., Liaw, H. J. & Wu, W. S. (2014).

The yeast nucleosome atlas (YNA) database: An integrative gene mining platform for studying chromatin structure and its regulation in yeast.

BMC Genomics, **15**, S5.

(Article, Peer-reviewed)

2012

18. Chan, T. J., Her, L. S., Liaw, H. J., Chen, M. C. & Tzeng, S. F. (2012).

Retinoic acid mediates the expression of glutamate transporter-1 in rat astrocytes through genomic RXR action and non-genomic protein kinase C signaling pathway.

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(Article, Peer-reviewed)

2011

19. Liaw, H., Lee, D. & Myung, K. (2011).

DNA-PK-dependent RPA2 hyperphosphorylation facilitates DNA repair and suppresses sister chromatid exchange.

PLOS ONE, **6**(6), e21424.

(Article, Peer-reviewed)

2010

20. Silver, D. L., Watkins-Chow, D. E., Schreck, K. C., Pierfelice, T. J., Larson, D. M., Burnett, A. J., Liaw, H. J., Myung, K., Walsh, C. A., Gaiano, N. & Pavan, W. J. (2010).

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Nature Neuroscience, **13**(5), 551–558.

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Mph1p promotes gross chromosomal rearrangement through partial inhibition of homologous recombination.

Journal of Cell Biology, **181**(7), 1083–1093.

(Article, Peer-reviewed)

22. Moteji, A., Liaw, H. J., Lee, K. Y., Roest, H. P., Maas, A., Wu, X., Moinova, H., Markowitz, S. D., Ding, H., Hoeijmakers, J. H. J. & Myung, K. (2008).

Polyubiquitination of proliferating cell nuclear antigen by HLTF and SHPRH prevents genomic instability from stalled replication forks.

Proceedings of the National Academy of Sciences of the United States of America (PNAS), **105**(34), 12411–12416.

(Article, Peer-reviewed)

2007

23. Liaw, H. J., Chen, W. R., Huang, Y. C., Tsai, C. W., Chang, K. C. & Kuo, C. L. (2007).

Genomic organization of the chicken CD8 locus reveals a novel family of immunoreceptor genes.

Journal of Immunology, **178**(5), 3023–3030.

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2006

24. Liaw, H. & Lustig, A. J. (2006).

Sir3 C-terminal domain involvement in the initiation and spreading of heterochromatin.

Molecular and Cellular Biology, **26**(20), 7616–7631.

(Article, Peer-reviewed)

2003

25. Wyatt, H. R., Liaw, H., Green, G. R. & Lustig, A. J. (2003).

Multiple roles for *Saccharomyces cerevisiae* histone H2A in telomere position effect, Spt phenotypes and double-strand-break repair.

Genetics, **164**(1), 47–64.

(Article, Peer-reviewed)