Yu-Jie Hu (胡鈺杰)

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OBJECTIVE: pursuing a postdoctoral position in therapeutic reagent development

SKILLS:

- recombinant protein engineering, expression and purification
- mammalian tissue culture and cell line engineering
- RNAi design and gene knockdown (siRNA, viral shRNA system)
- gene expression analysis (qPCR, microarray, RNA-seq)
- immunoblotting, immunoprecipitation and chromatin immunoprecipitation
- immunofluorescence and confocal microscopy
- mouse model handling
- interpersonal communication skill, scientific writing and presentation
- language: English (minimum professional proficiency), Taiwanese mandarin (native), Hokkien (native)

EDUCATION:

- University of Massachusetts Medical School, USA — Sep. 2008 – present
  Department of Cell and Developmental Biology
  Ph.D program in Biomedical Sciences
  Dissertation: Epigenetic control of adipocyte differentiation
  Expect completion date: Oct. 2015

- National Yang Ming University, Taiwan — Sep. 2002 – Jun. 2004
  Institute of Biopharmaceutical Sciences
  Master of Science
  Dissertation: Transformation phenotype and aberrant gene expression induced by long-term exposure term exposure of monomethylarsonous acid in human urothelial cell lines.

- National Ting Hua University, Taiwan — Sep. 1998 – Jun. 2002
  Department of Life Sciences
  Bachelor of Science
  Major: Biology, GPA 3.8

WORK EXPERIENCE:

- Research Assistant — Apr. 2006 – Apr. 2008
  Institute of Molecular Biology, Academia Sinica, Taiwan

- Second Lieutenant Oct. 2004 – Jan. 2006
  Air Force Medical Service, Taiwan

PUBLICATION:

- **Hu, Y.J**., Belaghzal, H., Hsiao, W.Y., Qi, J., Bradner, J.E., Guertin, D.A, Sif, S., Imbalzano, A.N. (2015) Transcriptional and post-transcriptional control of adipocyte differentiation by Jumonji domain-containing protein 6. (*Nucleic Acids Res*. in revision)
- Dobson, J.R., Taipaleenmäki, H., **Hu, Y.J.**, Hong, D., van Wijnen, A.J., Stein, J.L., Stein, G.S., Lian, J.B., Pratap, J. (2014) Has-mir-30c promotes the invasive phenotype of metstatic breast cancer cells by targeting NOV/CCN3. *Cancer Cell Int*. 14:73
- **Hu, Y.J.**, Sif, S., Imbalzano, A.N. (2013) Prmt7 is dispensable in tissue culture models for adipogenic differentiation. *F1000Res*. 2:279.
- Karkhanis, V., Wang, L., Tae, S., **Hu, Y.J**., Imbalzano, A.N., Sif, S. (2012) Protein arginine methyltransferase 7 regulates cellular response to DNA damage by methylating promoter histones H2A and H4 of the polymerase δ catalytic subunit gene, POLD1. *J. Biol. Chem*. 287(35): 29801-14
- LeBlanc, S.E., Konda, S., Wu, Q., **Hu, Y.J**., Oslowski, C.M., Sif, S., Imbalzano, A.N. (2012) Protein arginine methyltransferase 5 (Prmt5) promotes gene expression of peroxisome proliferator-activated receptor γ2 (PPARγ2) and its target genes during adipogenesis. *Mol. Endocrinol.* 26(4): 583-97
- Karkhanis, V., **Hu, Y.J**., Baiocchi, R.A., Imbalzano, A.N., Sif, S. (2011) Versatility of PRMT5-induced methylation in growth control and development. *Trends Biochem Sci*. 36(12): 633-41
- Mallappa, C., **Hu, Y.J.**, Shamulailatpam, P., Tae, S., Sif, S., Imbalzano, A.N. (2010) The expression of myogenic microRNAs indirectly requires protein arginine methyltransferase (Prmt)5 but directly requires Prmt4. *Nucleic Acids Res*. 39(4):1243-55
- Lin, W.Y., **Hu, Y.J.**, Lee, Y.H. (2008) Hepatocyte nuclear factor-1 alpha regulates glucocorticoid receptor expression to control postnatal body growth. *Am. J. Physiol. Gastrointest. Liver Physiol.* 293(3) G542-551
- Su, P.F., **Hu, Y.J.**, Ho, I.C., Cheng, Y.M., Lee, T.C. Distinct gene expression profiles in immortalized human urothelial cells exposed to inorganic arsenite and its methylated trivalent metabolites. (2006) *Environ Health Perspect.* 114(3): 394-40

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