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Structural diversity of frameshifting signals : reprogramming the programmed

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Curriculum Vitae

Chien-Hung Yu was born on 10th August 1980 in Nantou County, Taiwan. In 1998, he graduated from the Taipei Municipal Chien Kuo High School. During this period, he got interested in chemistry and biology subjects. Thereafter, he followed a BSc-study in the Department of Agriculture Chemistry, National Taiwan University and obtained his bachelor degree in 2002. In the same year, he started his first research project, which was dedicated to the role of the C-terminal domain of ClpQ (*hslU*), which is responsible for the subunit oligomerization of ClpQ. His research project was carried out under the supervision of Dr. Whi-Fin Wu, Institute of Microbiology, Department of Agriculture Chemistry, National Taiwan University and he obtained his master degree in September 2004. After one year and three months mandatory military service, from February 2006 till July 2007 he joined the group of Prof. Dr. Bor-Ching Sheu, Department of Obstetrics and Gynecology, College of Medicine, National Taiwan University Hospital to investigate the role of $CD4^+CD25^+$ regulatory T cells (Treg) in inhibiting tumor-infiltrating lymphocytes in cervical and endometrial cancer. He started in September 2007 as a PhD student in the group of Molecular Genetics, Leiden Institute of Chemistry, under supervision of Dr. R.C.L. Olsthoorn and Prof. Dr. M.H.M. Noteborn. The results of the latter period are described in this thesis.

List of publications

1. Lee, Y.Y., Chang, C.F., Kuo, C.L., Chen, M.C., Yu, C.H., Lin, P.I., and Wu, W.F. (2003) Subunit oligomerization and substrate recognition of the Escherichia coli ClpYQ (HslUV) protease implicated by in vivo protein-protein interactions in the yeast two-hybrid system. *J. Bacteriol.*, **185**, 2393-2401.

2. Lien, H.Y., Yu, C.H., Liou, C.M., and Wu, W.F. (2009) Regulation of clpQY (hslVU) Gene Expression in Escherichia coli. *Open Microbiol. J.*, **3**, 29-39.

3. Yu, C.H., Noteborn, M.H., and Olsthoorn, R.C. (2010) Stimulation of ribosomal frameshifting by antisense LNA. *Nucleic Acids Res.*, **38**, 8277-8283.

4. Yu, C.H., Noteborn, M.H., Pleij, C.W., and Olsthoorn, R.C. (2011) Stem-loop structures can effectively substitute for an RNA pseudoknot in -1 ribosomal frameshifting. *Nucleic Acids Res.*, **39**, 8952-8959.

5. Yu, C.H., Noteborn, M.H., and Olsthoorn, R.C. Antisense oligonucleotides that mimic a pseudoknot are highly efficient in stimulating –1 ribosomal frameshifting. Submitted to *Nucleic Acids Res*.

6. Yu, C.H., Luo J., Kamerlin S.C.L., Abrahams J.P., and Olsthoorn, R.C. Comparison of $preQ_1$ riboswitches by molecular dynamics simulations and ribosomal frameshifting: identification of a novel RNA-ligand interaction. Manuscript in preparation.

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