

Curriculum Vitae

Yu WANG



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EDUCATION:

University of Southampton, Southampton, UK

BSc with first class honor in Biomedical science 2010-2012

Average mark: 78 (equals to A+, ranked Top1)

University of Nanjing, Nanjing, China

BSc in life science and technology 2008-2013

Average mark: 92/100 (ranked Top1)

AWARDS AND HONOURS:

Scholarship for excellent student (Academic year 2008-2009, issued by University of Nanjing) Scholarship for the top student (Academic year 2009-2010, issued by University of Nanjing)

Scholarship for the top 10 student (Academic year 2010-2011, issued by University of Southampton)

Outstanding work for undergraduate innovative training project (2011)

Gerald Kerkut Biomedical Science Prize for Outstanding performance by a graduating Biomedical Sciences Student (2012)

PUBLICATION /POSTER/PRESENTATION

Wang Y.*, Agasti S.S*. Woehrstein J.B., Donoghue N., Dai M, Lambert T, Jungmann R, Avedano M.S., Wang S, Bickford L, Tillberg P.W., Liang Z., Water J., Church G.M., Kaeser P., Boyden E.S., Agasti S.S. and Yin P. A DNA-Exchange-based imaging method for highly multiplexed diffraction-limited and super-resolution imaging in neurons. *In preparation.*

Agasti S.S*, **Wang Y*.**, Sukumar A., Jungmann R. and Yin P. DNA-barcoded labeling platform allows ultra-multiplexed imaging at Nanoscale resolution. *Submitted.*

Wang Y., Donoghue N, Dai M, Church G.M. Kaeser P., Boyden E.S. Agasti S.S and Yin P. A DNA-Exchange-based imaging method for highly multiplexed diffraction-limited and super-resolution imaging in neurons. (Poster for 2015 Society for Neuroscience Annual Meeting)

Wang Y., Puebla N., Tavana O., Li S. and Zhu C. Ku70^{-/-}PP mice: when persistent DNA damage meets p53-dependent apoptosis deficiency: a model to study colitis-related colon cancer. (Poster for CRIPT summer program, 2012)

RESEARCH EXPERIENCE:

2009.4-2010.6 undergraduate innovative training project Nanjing, China

I organised and led a group to study the “*nitrogen cycle in the Tai lake*”. The work was divided into two parts, one was field work to collect samples from the Tai lake and the other was laboratory work in which a spectrophotometer was used to detect the concentration of nitrogen. This project was awarded a prize of outstanding working.

2011.8-2011.10 Wellcome Trust summer studentship Southampton, UK

I applied and obtained this competitive studentship to study the extracellular matrix protein ADAMTSL4. I conducted this project independently for eight weeks and was supervised by Dr Neil Smyth (Professor Tom Fleming Group). I started from the cloning of the cDNA and successfully got the HEK293-expressed proteins, which were then detected using western blotting.

2011.10-2012.5 Final year long lab-based project Southampton, UK

In this project, I was studying the effect of IRF5, IRF7 and IL-21 on the differentiation of Treg cells and Myeloid-derived suppressive cells, which are both involved in the tumour hostile environment used to escape the immune surveillance. This project lasted 7 months and was supervised by Dr Stephen Thirdborough (Professor Freda Stevenson and Professor Christian Ottensmeier Group). A dissertation was written at the end and a generous mark of 76, which equals A+ or A, was given.

2012.6.11-2012.8.10 Summer internship on MDAnderson cancer centre Houston, USA

I was studying Ku70-/-P53mutated mice in Dr Chengming Zhu’s lab. Ku70 deficiency causes persistent DNA damage as a result of inefficient DNA repair. Combined with mutated P53, which lack the apoptosis induction function, these Ku70-/-P53mutated mice develop several interesting phenotype. My project was mainly identification of lymphocytes and myeloid cells in the bone marrow, thymus, spleen and mesenteric lymph node using FACS. I also did fluorescence staining of Ku70 and beta-catenin in the human colon cancer sample. During this project, I was also fascinated by the unusual change of T cell population in this type of mice, which inspired me to dig deeper into the beta-catenin and p53 in the development of T cells in the thymus.

2012.9.17-2013.1.31 Research assistant in National Institute of Biological Science Beijing, China

I was working as a research assistant in the lab of Dr Xiaodong Wang. I conducted a project to decipher the role of mitochondria in the necroptosis. In addition, I used TALEN to generate HT29 cells lacking specific genes revealed by previous siRNA screening.

2013.8 – current PhD student in Harvard University

LAB SKILL:

Bench work: immunofluorescence, microscopy imaging

Bioinformatic: Matlab, Python

