

Xin Yang

Personal Detail

Birth Date: October 13, 1993

Place of Birth: Fujian, China

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Education Background

Northwest A&F University (211 & 985 Project University) Sept. 2011 – Jun. 2015

Food Science and Engineering (College of Food Science and Engineering) (June 2015, Bachelor degree)

GPA: 88.77/100 (3.65)

Publication

Xin Yang, Yanru Wang, Wei Liu, Yuhuan Zhang, Fangqing Zheng, Shuaixing Wang, Daohong Zhang, Jianlong Wang*, A portable system for on-site quantification of formaldehyde in air based on G-quadruplex halves coupled with a smartphone reader. **Biosensors and Bioelectronics**. (DOI:10.1016/j.bios.2015.08.020)

Yang Xin, Guo Chao, Li Hao, Yu Xiuzhu*, Li Shanshan, Wei Xinyao, Determination of Peroxide Value of Edible Oils by Vis Spectrophotometry. Cereals and Oils Processing, 06, 34-39, 2014 (In Chinese)

Yang Liu-qing, Huo Bing-yang, Ge Wu-peng*, **Yang Xin**, Hu Zong-rong, Niu Hai-yue, Study on the fermentation technologies of whey beverages added multigrain. Food Industry (In Chinese)

Research Experience

Investigation on assembly of chlorin e6 for photothermal cancer therapy.

April. 2015 -March. 2015

- Mastered skills of cell biology, be familiar with Cell Culture and the 3-(4, 5-dimethylthiazolyl-2)-2, 5-diphenyltetrazolium bromide (MTT) cell-survival assay.
- Design of drug delivery.
- Mastered microstructural characterization techniques (such as SEM, TEM, LSCM)

Investigation on the determination of formaldehyde in ambient air based on the competitive oxidation reaction catalyzed by G-quadruplex halves.

December. 2014- January. 2014

- Apply the response surface methodology (RSM) and Box–Behnken design (BBD) to the optimization of the determination conditions (pH, the concentration of DNAzyme, ABTS and H₂O₂).
- Develop sampling equipment for the preconcentration of formaldehyde from analysed air into absorption liquid.
- Develop a determination kit for the quick analysis of formaldehyde.
- Develop an android application for automatic colorimetric characterization.

Investigation on an aptamer-based biosensor for colorimetric detection of salmonella typhimurium. **December. 2013– October.2013**

- Built an aptamer-based biosensor which could bind to the surface membrane protein of Salmonella typhimurium specifically.
- Carried out an Orthogonal Test to optimize the determination conditions.

Investigation on the determination of peroxide value of edible oils. (The National Undergraduate Science and Technology Innovative Project)

September. 2012 - July. 2012

- Explore the effects on determination of the varying condition, such as detective wavelength, the amount of saturated potassium iodide, reaction temperature, the amount of starch indicator, types of the oil samples and ratio of the organic solvent.
- Mastered skills of Spectrophotometer (establish a standard curve for quantitative analysis) .

- Processed raw data with statistical software (Excel, Origin, Minitab, etc).

Investigation on the industrialization of Yuyuan (traditional snacks in Taipei, China). Supported by Master Kang Tingyi International Group Holding Corp. **October. 2013- May. 2013**

- Carried out an Orthogonal Test to find out the best match of Yuyuan (taro, sweet potato flour, cornstarch and sugar), and the best parameters in industrial process (mixing time, cooking temperature, cooking time and cooling time).
- Processed raw data with statistical software (DPS, SPSS, Minitab, etc).
- Packaging design of production.

Investigation on the development of snack foods: almond potato chips, supported by DuPont Danisco (China) Holding Co., Ltd.

October. 2013- May. 2013

- Using almond, yam purple and purple sweet potato as raw materials, increasing the nutrition and taste of traditional chips.
- Carried out an Orthogonal Test to find out the best match of chips and the best parameters in the process.
- Packaging design of production.

Honors and Awards

- 2015 Outstanding graduates, Northwest A&F University; Outstanding dissertation Northwest A&F University
- 2014 Advanced Individual in social practice, Northwest A&F University
- 2013 Level 3 of National Public Dietician Qualification, National Computer Rank Examination Grade III (computer network) Qualification
- 2013 Third-Grade Award in students innovative research contest competition sponsored by DuPont Nutrition & Health
- 2013 Best R & D Report in students innovative research contest competition sponsored by Master Kang Tingyi International Group Holding Corp
- 2012 Outstanding League Cadres, Northwest A&F University (recognition of excellent moral character and diligent work).
- 2011 First-class Scholarship (recognized as the top student for academic achievement in our university).
- 2011 President Scholarship, Merit Student.

Extracurricular Activities

Work for the Science and Technology Innovation Department of the Students' Union

Oct. 2011 - June 2014

- Served as the secretary, assistant minister and Minister.
- Responsible for the application of *The National Undergraduate Science and Technology Innovative Project*, encouraging students to participate in the project.
- Invite experienced professors and students to lectures, provide guidance to students who are working on a project, helping students to complete the project smoothly.
- Built a website to help students conveniently to get access to the information about how to apply a project.

Participate in the program Volunteer students going to the countryside

April 2012-May 2014

- Served as the assistant director of Yangjiazhuang Village.
- Responsible for English courses.
- Helped pupils with their homework.