

ZHU, Ling

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EDUCATION

China Agricultural University

Beijing, China

Bachelor of Science; Major in Biological Sciences

Expected July 2017

- ✧ Won the third prize in university brewing wine contest 9/40
- ✧ Obtained the third prize in Beijing Modeling Contest 10%

RESEARCH EXPERIENCE

Study of the Effect of GABP on Bone Formation

Beijing, China

Graduation design

11/2016-Present

- ✧ Aimed to find the function of GA-binding Protein(GABP) in bone development through the study of the relationship between the GABP β subunit and bone mass.
- ✧ Verify the influence of GABP to related function and the development and differentiation of osteoblast and osteoclast, search for the target genes of GABP in bone formation by CHIP-Seq and RNA-Seq and other technical means, and find out the mechanism of the effect of GABP on bone formation in mice.

Expression Pattern Analysis of AP2.4

Beijing, China

College Student Innovations Special Project

02/2015-06/2016

- ✧ Studied the expression pattern of AP 2.4 under different hormones regulation included ethylene, abscisic acid and under flooding stress.
- ✧ Amplified AP 2.4 gene regulating sequence fractionally by PCR, identified the amplified product by agarose gel electrophoresis and sequencing, then ligated the fragments into an intact one.
- ✧ Transferred AP 2.4 gene into tobacco cells, got callus after tissue culture and cultivated under different concentrations of ethylene, abscisic acid and under flooding stress, observed the expression of AP 2.4 gene.

Preparation of nsp10 Antibody

02/2016-present

- ✧ Amplified nsp10 gene by RT-PCR, prepared high expression of recombinant His-nsp10 protein engineering bacteria.
- ✧ Separated and purified recombinant His-nsp10 protein and injected them into abdominal cavity of mice, fused secreting antibodies lymphocyte and myeloma cell.
- ✧ Screened positive cells, cultured in the abdominal cavity of mice, separated and purified the obtained antibody to get monoclonal antibody. Will produce monoclonal antibody and make vaccine latter.

INTERNSHIP EXPERIENCE

MDCK Cells Suspension Culture Project

Beijing, China

China Animal Healthcare Co., Ltd.

07/2016-08/2016

- ✧ Took charge of screening suitable medium for MDCK cells suspension culture in flask-shaking.
- ✧ Learned and mastered the method and attentions of cells suspension culture under mentor's guidance.
- ✧ Compared cells growth in different media, chose the best one and determined optimum composition ratio.
- ✧ Improved the cell density to $3.0 \times 10^6/\text{mL}$ from $2.0 \times 10^6/\text{mL}$ through adjusting the serum concentration and culture conditions.

ACTIVITIES

New Orientation-Assistant Teacher

07/2015-08/2015

- ✧ Helped more than 200 junior middle school students review courses, dictate words, corrected their homework 35 hours per week.

Students Union Activities

09/2013-06/2014

- ✧ Organized and engineered school-level knowledge contest and recitation contest as a member in learning and practice department.
- ✧ Wrote press release, participated in shooting news photos in propaganda department of news agency.

ADDITIONAL INFORMATION

Computer: C; Office;

Interests: Reading; Swimming; Drawing