

**Jia Zhang (张佳)** just received her PhD in Nutritional Sciences from Texas Tech University (TTU) supervised by **Dr. Shu Wang, MD, PhD**. She obtained BS in Food Science and MS in Nutrition and Food Sciences from Nanchang University, China. She has published 1 book chapter and 7 peer-reviewed papers in Journal of Controlled Release and Journal of Nutritional Biochemistry, etc. She is the recipient of Phenolic Research Award (EB2015); Paul Whitfield Horn Fellowship (TTU2015); Summer Dissertation Research Award (TTU2015); Poster Competition Award (TTU2014); Mina Lamb Doctoral Fellowship (TTU2011-2015).

She also developed good teamwork and leadership skills. As Vice Chair of Literature Club during undergraduate years, she spearheaded fundraising to support and organize club events. Meanwhile, she had a minor in Economics. In NACSN, she served as newsletter editor for two years. In summer 2016 term, she hopes to serve NACSN members as treasurer.



## **Jia (Julia) Zhang**

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### **Education**

Ph.D.	2015	Nutritional Sciences	Texas Tech University, TX
M.S.	2011	Food and Nutritional Science	Nanchang University, China
B.S.	2008	Food Science and Engineering (minor: Economics)	Nanchang University, China

### **Peer-reviewed Publications and Book Chapter**

1. **Zhang, J.**; Nie, S.; Martinez-Zaguilan, R.; Sennoune, S.; Wang, S., Formulation, characteristics and anti-atherogenic bioactivities of CD36-targeted Epigallocatechin gallate (EGCG)-loaded nanoparticles *Journal of Nutritional Biochemistry* 2016, 30, 14-23.
2. Wang, S.; **Zhang, J.**, Potential applications of nanotechnology in the nutraceutical sector. *Handbook of Clinical Nanomedicine: From Bench to Bedside*. Pan Stanford Publishing Pte. Ltd: 2015; Vol. 13.
3. Nie, S.; **Zhang, J. (co-first author)**; Martinez-Zaguilan, R.; Sennoune, S.; Hossen, M. N.; Wang, S., Detecting atherosclerotic lesions and intimal macrophages using targeted nanovesicles. *Journal of Controlled Release* 2015, 220, 61-70.
4. Li, C.; **Zhang, J.**; Zu, Y.; Nie, S.; Cao, J.; Wang, S., Biocompatible nanoparticles for enhancement of anti-cancer activities of phytochemicals. *Chinese Journal of Natural Medicines* 2015, 13, 0001-0005.
5. Wang, S.; Su, R.; Nie, S.; Sun, M.; **Zhang, J.**; Wu, D.; Moustaid-Moussa, N., Application of nanotechnology in improving bioavailability and bioactivity of diet-derived phytochemicals. *Journal of Nutritional Biochemistry* 2014, 25, 363-376.
6. **Zhang, J.**; Nie, S.; Wang, S., Nanoencapsulation enhances Epigallocatechin gallate stability and its antiatherogenic bioactivities in macrophages. *Journal of Agricultural and Food Chemistry* 2013, 61, 9200-9209.
7. de Pace, R. C. C.; Liu, X.; Sun, M.; Nie, S.; **Zhang, J.**; Cai, Q.; Gao, W.; Pan, X.; Fan, Z.; Wang, S., Anticancer activities of Epigallocatechin gallate encapsulated nanoliposomes in MCF7 breast cancer cells. *Journal of Liposome Research* 2013, 23, 187-196.
8. **Zhang, J.**; Li, J.; Deng, Z., Trans fatty acids intake affects lipid metabolism in rats. *Food Science* 2010, 31, 363-366. Chinese
9. Liu, X; Deng, Z; Su, H; Lu, L; Fan, Y; Zhao, W; **Zhang, J.**, Correlations between four serum lipid indicators in different types of hyperlipidemia group. *Public Health* 2010, 26, 307-310. Chinese.

Complete List of Published Work in My Bibliography: <http://1.usa.gov/1PabveJ>

## Jia (Julia) Zhang

### Conference Publications and Presentations

1. **Zhang, J.**; Nie, S.; Hossen, M. N.; Sun, M.; Martinez-Zaguilan, R.; Sennoune, S.; Wang, S., Anti-atherogenic effects of lesion-targeted epigallocatechin gallate (EGCG)-loaded nanoparticles. The FASEB Journal 2015, 29, 271.3. Oral presentation
2. Li, C.; **Zhang, J.**; Nie, S.; Cao, J.; Wang, S., Comparing effects of native and nanoencapsulated epigallocatechin gallate on liver fat content in LDL receptor null mice. The FASEB Journal 2015, 29, LB373.
3. Dhanasekara, C.; **Zhang, J.**; Nie, S.; Wang, S., Detection of intimal macrophages in atherosclerotic lesions using a CD36-targeted ligand containing nanoparticle. The FASEB Journal 2015, 29, 606.12.
4. Zu Y.; **Zhang J.**; Nie S.; Wang S., The effect of EGCG and EGCG nanoparticles on body weight and body composition in LDL receptor null mice. The FASEB Journal 2015 29:402.5.
5. Cao J.; **Zhang J.**; Li C.; Wang S., Effects of Epigallocatechin gallate nanocarriers on liver cholesterol content in LDL receptor null mice. The FASEB Journal 2015 29:LB369.
6. **Zhang, J.**; Nie S.; Wang S., The antiatherogenic effects of targeted Epigallocatechin gallate-loaded nanoparticles (1045.41). The FASEB Journal 2014, 28, 1045.41.
7. Sun, M.; Wang, S.; Nie, S.; **Zhang, J.**, Enhanced oral bioavailability of quercetin by nanostructured lipid carriers (1044.24). The FASEB Journal 2014, 28, 1044.24.
8. **Zhang J.**; Nie, S.; Wang, S. Targeted Epigallocatechin gallate loaded lipid nanoparticles inhibit foam cell formation. Nanomedicine Poster presentation, Washington. J Neuroimmune Pharmacol. Mar 9, 2014 (supplement 1): S37-S38.
9. **Zhang, J.**; Nie, S.; Wang, S., Characteristics and anti-atherosclerotic properties of epigallocatechin gallate loaded lipid nanoparticles in vitro. Circulation 2013, 128, A18763. Impact Factor: 14.4
10. **Zhang, J.**; Nie, S.; Wang, S., Epigallocatechin gallate (EGCG)-loaded nanoparticles decrease cholesterol content in THP-1 derived macrophages. The FASEB Journal 2013. Oral presentation
11. Wang, S.; **Zhang, J.**; Sun, M.; Fan, Z., Nanoencapsulation increases epigallocatechin gallate stability and its cellular bioavailability in macrophages. The FASEB Journal 2012, 26, 646.5.

### Academic and Professional Honors

- Phenolic Research Award by PhenHRIG (Plant Phenolics and Human Health Research Interest Group), Experimental Biology conference 2015, Boston.
- Paul Whitfield Horn Fellowship Award, 2015, Texas Tech.
- Summer Dissertation Research Award, 2015, Texas Tech.
- Second Place, in Thirteenth Annual Graduate Student Research Poster Competition, 2014, Texas Tech.
- Mina Lamb Doctoral Fellowship, 2011-2015, Texas Tech, U.S.
- First-grade, Second-grade Scholarship, Four times (primarily based on excellent academic performance); Outstanding Student Leader; Third Place of Math Contest, 2004-2008, Nanchang University, China.