

# Helen Thompson

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## EDUCATION:

**Western Kentucky University, Bowling Green, KY**

*Graduation: May 2013*

- Bachelor of Science in Biochemistry, concentration in Pre-Pharmacy.  
GPA: 3.76

## WORK EXPERIENCE:

**T.J. Samson Community Hospital Pharmacy, Glasgow, KY**

*June 2013-November 2013*

Pharmacy Volunteer

- Helped pharmacy technicians fill orders in hospital inpatient pharmacy.
- Worked as a pharmacy technician in the outpatient (employee) pharmacy.
- Shadowed pharmacists in both inpatient and outpatient pharmacies.
- Certified Pharmacy Technician (CPhT) by exam in August 2013.

**Western Kentucky University, Department of Chemistry, Bowling Green, KY**

*February 2011 – May 2011*

Teaching Assistant

- Assisted students in the performance and safety of their experiments in organic chemistry laboratory.

## RESEARCH EXPERIENCE:

**Western Kentucky University, Department of Chemistry, Bowling Green, KY**

*February 2010 – May 2012*

Research Assistant

- Synthesis of antibiotic capped gold nanoparticles and its application for bacterial identification
- Oxidation chemistry that involves kinetic studies of high-valent metal-oxo intermediates and developing catalysts for selective and aerobic oxidation reactions

**National Chung Hsing University, Department of Chemistry, Taichung, Taiwan,**

*May 2011 – July 2011*

Research Assistant

- Project: Tailored hydrophobic/hydrophilic properties of honeycomb-like polymeric films based on dendritic side-chain polymers

## PUBLICATIONS:

Visible light-driven aerobic oxidation catalyzed by a diiron(IV)  $\mu$ -oxo biscorrole complex. Zhang, Rui; Vanover, Eric; Chen, Tse-Hong; Thompson, Helen.  
*Inorganica Chimica Acta*. Vol. 464-465 issue 15 August 2013. P. 95 – 100

A New Class of Gold Antibiotics-Direct Coating of Ampicillin on Gold Nanoparticles. Pender, Dillon; Vangala, Lakshmisri; Badwaik, Vivek; Thompson, Helen; Paripelly, Rammohan; Dakshinamurthy, Rajalingam.*Pharmaceutical Nanotechnology* vol. 1 issue 2, 2013. p. 126-135

Generation of *trans*-dioxoruthenium(VI) porphyrins: A photochemical approach. Zhang, Rui; Huang, Yan; Abebrese, Chris; Thompson, Helen; Vanover, Eric; Webb, Cathleen.*Inorganica Chimica Acta* vol. 376 issue 1 October 1, 2011. p. 152-157

## PROFESSIONAL ACTIVITIES:

- Member, American Chemistry Society *October 2010-Present*
- Presenter, WKU Student Research Conference *March 2013*  
Topic: A new class of gold nanoantibiotics- direct coating of ampicillin on gold nanoparticles
- Presenter, Kentucky Academy of Science Annual Meeting *November 2012*  
Topic: Green synthesis, characterization of starch gold nanoparticles & its application for bacterial identification
- Presenter, WKU Student Research Conference *March 2012*  
Topic: Synthesis, characterization and anti-bacterial activity of  $\beta$ -lactam antibiotic capped gold nanoparticles
- Participant, Research Experiences for Undergraduates *May 2011 – July 2011*
- Presenter, Kentucky Academy of Science Annual Meeting *November 2011*  
Topic: Synthesis and characterization of  $\beta$ -lactam antibiotic capped gold nanoparticles
- Presenter, American Chemistry Society Annual Meeting *March 2011*  
Topic: Novel photosynthesis of *trans*-dioxoruthenium(VI) porphyrins
- Presenter, WKU Student Research Conference *March 2011*  
Topic: Novel photosynthesis of *trans*-dioxoruthenium(VI) porphyrins
- Presenter, Kentucky Academy of Science Annual Meeting *November 2010*  
Topic: Novel photosynthesis of *trans*-dioxoruthenium(VI) porphyrins

## **AWARDS:**

- WKU Ogden Research Scholarship  
*2009-2013*
- WKU Academic Scholarship  
*2009-2013*
- WKU Dean's/President's List  
*2009-2013*

## **EXTRACURRICULAR ACTIVITIES:**

- Co-worker, Bowling Green Chinese Christian Fellowship  
*February 2010 – April 2012*  
Attended and coordinated bible studies and co-worker meetings, planned group trips and holiday celebrations.
- Member, Western Kentucky University Chess Club  
*September 2009 – April 2012*
- Member, WKU Pre-Pharmacy Club  
*October 2010- May 2012*

## **REFERENCES:**

- **John Andersland, Ph.D.**
  - Instructor
  - Department of Biology, Western Kentucky University
  - (270) 745-5993
- **Larry Byrd, Ph.D.**
  - Professor
  - Department of Chemistry, Western Kentucky University
  - (270) 745-6018
- **Sharon Clause**
  - Pharmacist
  - T.J. Samson Hospital Pharmacy
  - (270) 834-0224

**Further references available upon request.**