**Curriculum Vitae**

Wenjun Du, Ph.D

Department of Chemistry and Biochemistry, Central Michigan University

Mount Pleasant, MI 48859

Phone: (989) 774-7568, Fax: (989) 774-3883, E-mail: [du1w@cmich.edu](mailto:du1w@cmich.edu)

----------------------------------------------------------------------------------------------------------------------

**Employment history:**

Assistant professor, Central Michigan University, 07/2009-current

**Education and Training:**

Postdoctoral research associate: Washington University in Saint Louis, 2006-2009

Ph.D: University of California Davis, 2006 in Chemistry,

M.S.: University of North Carolina at Charlotte, 2003 in Chemistry,

B.S.: Sichuan University, 1990 in Biochemistry

**Teaching Experience:**

CHM132L, Introduction to Chemistry-II, the Lab session, Fall, 2009,

CHM342, Survey of Organic Chemistry, Spring 2013, Fall 2014, Spring 2015

CHM345H, Organic Chemistry-I, Honor’s session Fall 2010, Fall 2011, Fall 2012, Fall 2013

CHM345, Organic Chemistry-I, regular session, Fall 2014

CHM346, Organic Chemistry-II, Spring 2011, Spring 2013, Spring 2014

CHM561, Polymer Chemistry, Fall 2009, Fall 2010, Fall 2012, Fall 2013, Fall 2014

CHM644, Advanced Organic Chemistry, Spring 2011, Spring 2012, Spring 2014, Spring 2015

**Selective Publications:**

1. Lingyao Li, Jun Wang,Melissa Obrinske, Ian Milligan, Kylie O‘Hara, Lindsay Bitterman, **Wenjun Du**\* Reverse Anomeric Effect (RAE)-mediated syntheses of sugar poly(orthoesters) *Chemical Communications* **2015,** *51*, 6972-6975.
2. Liye Fu, Lingyao, Li, Jun Wang, Kyle Knickelbein, Lin Zhang, Ian Milligan, Yi Xu, Kylie O'Hara, Lindsay Bitterman, **Wenjun Du**\* Synthesis of clickable amphiphilic polysaccharides as nanoscopic assemblies *Chemical Communications* **2014,** *50*, 12742-12745.
3. Lingyao Li, Yi Xu, Ian Milligan, Liye Fu, Emily A. Franckowiak, **Wenjun Du**\* Synthesis of highly pH-responsive glucose poly(orthoester) *Angewandte Chemie International Edition* **2013**, *52*, 13699 –13702. ***(inside cover)***
4. Lingyao Li, Emily A. Franckowiak, Yi Xu, Evan McClain, **Wenjun Du**\* Efficient synthesis of -(1,6)-linked oligosaccharides through Microwave-assisted glycosylation *Journal of Polymer Science Part A: Polymer Chemistry* **2013**, *51*, 3693–3699.
5. Choon Young Lee, Rich Held, Ajit Sharma, Rom Baral, Cyprien Nanah, Dan Dumas, Shannon Jenkins, Samik K. Upadhaya, **Wenjun Du**\*Copper granule-catalyzed and microwave-assisted click synthesis of polyphenol dendrimers *The Journal of Organic Chemistry* **2013**, *78*, 11221–11228.
6. **Wenjun Du,** Yali Li, Andreas M Nyström, Chong Cheng, Kenya T. Powell, Karen L. Wooley\* Synthesis, characterization, and aqueous self-assembly of amphiphilic poly(ethylene oxide)-functionalized hyperbranched fluoropolymers, *Journal of Polymer Science Part A: Polymer Chemistry* **2010**, *48*, 3487-3496.
7. **Wenjun Du**,Andreas M. Nyström, Zhang Lei, Kenya T. Powell, Cheng Chong.; Samuel A, Wickline, Karen, L. Wooley\* Amphiphilic hyperbranched fluoropolymers as nanoscopic 19F magnetic resonance imaging agent assemblies *Biomacromolecules* **2008**, *9*, 2826-2833.
8. **Wenjun Du**, Ziqiang Xu, Andreas M. Nyström, Ke Zhang, Jeffery R. Leonard, Karen L. Wooley\* 19F and Fluorescently-labeled micelles as nanoscopic assemblies for chemotherapeutic delivery *Bioconjugate Chemistry* **2008**, *19*, 2942-2048.
9. **Wenjun Du**, S. S. Kulkarni, Jacquelyn Gervay-Hague Efficient\* one-pot syntheses of biologically active alpha-linked glycolipids *Chemical Communications*. **2007**, 2336-2338.
10. **Wenjun Du,** Jacquelyn Gervay-Hague\* Efficient synthesis of alpha-galactosyl ceramide analogues using glycosyl iodide donors. *Organic Letters* **2005**, *7*, 2063-2065.

**Presentations:**

1. **Wenjun Du,**\* “Efficient syntheses of polysaccharides and their biomedical applications” 249th National ACS meeting, March 22, 2015, Denver, CO.
2. **Wenjun Du,**\* Lingyao Li, Ian Milligan, Jun Wang, Emily A. Franckowiak “Syntheses of polysaccharides from simple sugars” 247th National ACS meeting, March 18, 2014, Dallas, TX.
3. **Wenjun Du,**\* Lingyao Li, Ian Milligan, Yi Xu, Jun Wang, “Synthesis of degradable sugar poly(ortho esters)” 247th National ACS meeting, March, 20, 2014, Dallas, TX.
4. **Wenjun Du,**\*Emily A. Franckowiak, Lingyao Li, Yi Xu “Synthesis of polysaccharide through TBAI-mediated glycosylation” 246th National ACS meeting, September 12, 2013, Indianapolis, IN.
5. **Wenjun Du,**\* **“**Synthesis of highly pH-responsive sugar poly(1,2-orthoester)” Gordon Conference, Carbohydrate Division, June 15-21, 2013, Mount Snow, VT.
6. **Wenjun Du,**\* “Efficient syntheses of sugar polymers.” 10th Midwest Carbohydrate Symposium, October 18, 2014, Ann Arbor, MI
7. **Wenjun Du,**\* **“**Synthesis of oligosaccharides through glycosylation” 8th Midwest Carbohydrate Symposium, October 6, 2012; Detroit, MI.

**Patents:**

1. Jacquelyn Gervay-Hague, **Wenjun Du**, “Highly Efficient Synthesis of Alpha *O*-Galactosyl Ceramides” U.S patent number: 20090036658
2. Jacquelyn Gervay-Hague, **Wenjun Du**, Sally, J. DeNardo, Arutselvan Natarajan. “Site-Specific Ligation of Di-scFv through Copper (I) Catalyzed 1,3-Dipolar Cycloaddition.” U.S patent number: 20090234105
3. Jacquelyn Gervay-Hague, **Wenjun Du**, Suvarn S. Kulkarni, Matthew M. Schombs “One-pot Synthesis of α/β *O*-Glycolipids” U.S. patent number: 20140221633 A1.

**Awarded Grants:**

1. NSF-CHE SusChEM: (sole PI)

**Synthesis of degradable sugar poly(orthoesters)**

Amount awarded: $298,399

Funding period: 07/15/2014-06/14/2017

1. CMU-FRCE: **Synthesis of polysaccharides and construction of “sweet” nanoparticles**

2013-01-15

Funded $7,500

1. CMU-EC: **Synthesis of polysaccharide through chain-growth polycondensation**

2012-01-15

Funded $17,200

**Invited talks:**

1. Synthesis of polysaccharides and their biomedical applications, December 24, 2014; Sichuan University, Chendu, China
2. Synthesis of polysaccharides and their biomedical applications. 10th Midwest Carbohydrate Symposium, October 17, 2014; Ann Arbor, MI.
3. Synthesis of highly pH-responsive poly(orthoesters), June 4, 2013; Shenzhen TsingHua Institute, Shenzhen, China.
4. Synthesis of polysaccharide through glycosylation, December 14, 2012; Sun Yat-Sen University, Guangzhou, China.
5. Design and synthesis of amphiphilic glycopolymer as nanoscopic delivery assemblies, May 26, 2012; Guangxi University, Nanning, China.
6. Glycopolymer synthesis through glycosylation polymerization, December 6, 2012; Oakland University, MI.
7. Synthesis of oligosaccharides through glycosylation, 8th Midwest Carbohydrate Symposium, October 6, 2012; Detroit, MI.