

Sherry Li Xu

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226-448-3750 (cell phone)----Email: lxu48@uwo.ca

KEY QUALIFICATIONS

- 9 years of working experience in the laboratory of microbiology and biochemistry
- Experience in level 2 mammalian cell culturing
- Skilled in site-directed mutagenesis, confocal laser scanning microscopy, real-time quantitative PCR, and protein expression/purification, Western blot, DNA electrophoresis, Plasmid isolation, isolation of HIV virus-like particles
- 4 years of teaching experience in a Canadian university classroom; supervised several students/workers
- Self-motivated and attention to detail
- Skilled in working independently or in a team environment

EDUCATION

Master of Science (Biology)

Department of Biology, University of Western Ontario 2008

Master of Science (Microbiology)

Institute of Microbiology, Chinese Academy of Science, Beijing, China 2002

Bachelor of Science (Biology Education)

College of Life Sciences, Central China Normal University, Wuhan, China 1999

RESEARCH and TEACHING EXPERIENCE

Research Assistant Sep 2008-present

---*Department of Microbiology & Immunology, Schulich School of Medicine and Dentistry, University of Western Ontario; London, Ontario, Canada*

- Developed a variety of TRIM22- β mutants that are devoid of either one of the seven domains
- Characterized the localization patterns of the wild type TRIM22- β in a range of mammalian cells
- Identified the form (α or β) of TRIM22 that are naturally presented in a range of mammalian cells
- Generated HA and FLAG double tagged TRIM22

Skills and expertise practised: Site-directed internal gene deletion and insertion techniques, PCR deletion mutagenesis, confocal laser scanning microscopy, RNA preparation and reverse transcription PCR, primer design, transfection technologies, mammalian cell culturing, western blot, lab maintenance, plasmid isolation, isolation of HIV virus-like particles, some ordering experience

Research Assistant Feb-Aug 2008

---*Department of Biochemistry, Schulich School of Medicine and Dentistry, University of Western Ontario; London, Ontario, Canada*

- Developed a large number of mutants of Protein A using molecular cloning methods
- Optimized the expression of Protein A in the cells of *Escherichia coli*
- Studied the structure of Protein A mutants using circular dichroism
- High-through screening Protein A mutants that possess most stable IgG binding capacity

Skills and expertise practised: vector construction, polymerase chain reaction, DNA sequencing, protein expression and purification, His-tagging protein, protein analysis, protein-antibody binding test, ELISA, CD test, HPLC

Rhizosphere Microbiologist

2007-Jan 2008

Graduate Student

2004-2007

---*Agriculture and Agri-food Canada*; London, Ontario, Canada

- Constructed recombinant GFP vector and transformed the bacteria *Burkholderia* sp.
- Designed Taqman probe and developed real-time quantitative PCR assay to quantify bacterial population on the roots
- Developed plant tissue culture model system
- Visualized dynamic bacterial population on plant root tissue by confocal laser scanning microscopy
- Revealed the mode of action of the bacterium as a plant growth promoter
- Presented data in Rhizosphere International Conference and won full financial aid

Skills and expertise practised: GFP vectors, electroporation, oligonucleotide probes designing, real-time qPCR, plant tissue culture, confocal laser scanning microscopy, bacterial cell culture, hemocytometry, bacteria identification, plant-microbe interactions

Teaching Assistant

2004-April 2008

---*Department of Biology, University of Western Ontario*; London, Ontario, Canada

- Taught *Introductory Biology (022 and 023)* and *Plant as a Human Resources (217b)* in labs for undergraduates
- Supervised hundreds of undergraduates to assist with improving their experimental skills

Skills enhanced: presentation and communication skills, multiple task handling and time management skills, interpersonal skills

Graduate Student and Research Assistant

1999-2002

---*Institute of Microbiology, Chinese Academy of Sciences*; Beijing, China

- Examined the phylogeny of 500 imperfect fungi collected all over China by conventional microscopic observation and genetic analysis
- Published data in world renowned journals in the discipline of microbial systematics

Skills and expertise practised: phylogenetic analysis, fungi morphology and genetics, fungi systematics

PUBLICATIONS

Guo, Y. L. & L. Xu (2002): Studies on *Cercospora* and allied genera in China XI. *Mycosystema* **21** (2): 181.

Xu, L. & Y. L. Guo (2002): *Janetia salicis*, a new hyphomycete from China *Nova Hedwigia* **75** (1-2): 111.

Guo, Y. L. & L. Xu (2002): Studies on *Cercospora* and allied genera in China XII. *Mycosystema* **21** (4): 497.

Xu, L. & G. Lazarovits (2007): Qualitative and quantitative detection of a plant growth promoting bacterium, *Burkholderia phytofirmans* strain PsJN, directly from its host roots. Rhizosphere 2 International Conference. p. 83, INRA, Montpellier, France. (Abstr.)

Subject: RE: Level 3 access & background checks

From: Michael Mics <mmics@uwo.ca>

Date: Tue, 01 Sep 2009 10:34:11 -0400

To: 'Jennifer Stanley' <jstanle2@uwo.ca>

Jennifer,

I can confirm that Jenna Kelly and Li Xu have received clear police background checks.

Michael Mics

-----Original Message-----

From: Jennifer Stanley [<mailto:jstanle2@uwo.ca>]

Sent: Monday, August 31, 2009 17:55

To: Michael Mics

Subject: Level 3 access & background checks

Mike

Please confirm the following that the back-ground checks were okay for

Level 3 access:

Jenna Kelly

Li (Sherry) Xu

Thanks,

Jennifer