

Qi Wu

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PERSONAL

Date of Birth: October 27, 1985

Place: Yinchuan, Ningxia, China

ACADEMIC CREDENTIALS

Associate Research Fellow, Chinese Institute for Brain Research, Beijing(CIBR), 2022-now
Postdoc fellow, Univerisyt of Alberta, 2018-2022, Department of Medicine, Centre for Prions
and Protein Folding Diseases

PhD, University of Saskatchewan, 2010-2017, Department of Veterinary Microbiology,
Western College of Veterinary Medicine, Vaccine and Infectious Disease
Organization - International Vaccine Centre (<http://vido.org/>)

B.S., Qingdao University(www.qdu.edu.cn), Qingdao, Shandong Province, China, 2008,
Department of Biology, School of Medical Science

HONOURS (MEDALS, FELLOWSHIPS, PRIZES)

- Postdoc Fellowship, Synergies in Research on Alzheimer's Disease (SynAD) Enhancing Training Capacity in ADRD award, March-August 2019, \$24,000.
- Graduate Student Trainee (PhD), National CIHR Research Training Program in Hepatitis C (now Canadian Network on Hepatitis C), 2012-2016, \$23,300/ year
- Award for Excellent Organizers by Qingdao University, 2007
- Awards for Excellent Students in high school, 2000, 2002, and 2003
- National Mathematics Competition Award for students in high school, 2003
- Physics Competition Award of Shandong Province for students in Junior Schools, 2000

PUBLICATIONS

1. **Qi Wu**; Govindarajan Karthivashan; Maryam Nakhaei-Nejad; Bibin G Anand; Fabrizio Giuliani; Satyabrata Kar ; Native PLGA nanoparticles regulate APP metabolism and protect neurons

- against β -amyloid toxicity: Potential significance in Alzheimer's disease pathology. International Journal of Biological Macromolecules.
2. Bibin G. Anand; **Qi Wu**; Maryam Nakhaei-Nejad; Govindarajan Karthivashan; Lyudmyla Dorosh; Sara Amidian; Abhishek Dahal; Xiuju Li; Maria Stepanova; Holger Wille; Fabrizio Giuliani; Satyabrata Kar ; Significance of native PLGA nanoparticles in the treatment of Alzheimer's disease pathology. Bioactive Materials.
 3. Pallabi Sil Paul; Jae-Young Cho; **Qi Wu**; Govindarajan Karthivashan; Emily Grabovac; Holger Wille; Marianna Kulka; Satyabrata Kar ; Unconjugated PLGA nanoparticles attenuate temperaturedependent β -amyloid aggregation and protect neurons against toxicity: implications for Alzheimer's disease pathology. Journal of Nanobiotechnology.
 4. **Qi Wu**, Leonardo Cortez, Razieh Kamali-Jamil, Valerie Sim, Holger Wille and Satyabrata Kar ; Implication of exosomes derived from cholesterol-accumulated astrocytes in Alzheimer's disease pathology. Disease Models and Mechanisms.
 5. Bibin G. Anand; **Qi Wu**; Govindarajan Karthivashan; Kiran P. Shejale; Sara Amidian; Holger Wille; Satyabrata Kar ; Mimosine functionalized gold nanoparticles (Mimo-AuNPs) suppress β -amyloid aggregation and neuronal toxicity. Bioactive Materials.
 6. Yanlin Wang; **Qi Wu**; Bibin G. Anand; Govindarajan Karthivashan; G. Phukan; Jing Yang; G. Thinakaran; David Westaway; Satyabrata Kar ; Significance of cytosolic cathepsin D in Alzheimer's disease pathology: Protective cellular effects of PLGA nanoparticles against β -amyloidtoxicity. Neuropathol Appl Neurobiol.
 7. GuanQun Liu; Yao Lu; Sathya N.Thulasi Raman; Fang Xu; **Qi Wu**; Zhubing Li; Robert Brownlie; Qiang Liu; Yan Zhou ; Nuclear-resident RIG-I senses viral replication inducing antiviral immunity. Nat Commun **9**(1): 3199.
 8. **Qi Wu**; Zhubing Li; Qiang Liu ; Treatment with PTEN-Long protein inhibits hepatitis C virus replication, *Virology*, 2017, 511: 1-8. Virology **520**: 94-102.

9. **Q. Wu**, Z. Li and Q. Liu (2017). "Treatment with PTEN-Long protein inhibits hepatitis C virus replication." Virology **511**: 1-8.
10. **Qi Wu**; Zhubing Li; Paul Mellor; Yan Zhou; Deborah H.Anderson; Qiang Liu ; The role of PTEN - HCV core interaction in hepatitis C virus replication. Sci Rep **7**(1): 3695.
11. **Qi Wu** and Qiang Liu (2015) ; HBx truncation mutants differentially modulate SREBP-1a and -1c transcription and HBV replication. Virus Res **210**: 46-53.
12. **Qi Wu**; Ling Qiao; Jian Yang; Yan Zhou; Qiang Liu ; Stronger activation of SREBP-1a by nucleus-localized HBx. Biochem Biophys Res Commun **460**(3): 561-565.
13. Qiao L; **Wu Q**; Lu X; Zhou Y; Fernández-Alvarez A; Ye L; Zhang X; Han J; Casado M; Liu Q ; SREBP-1a activation by HBx and the effect on hepatitis B virus enhancer II/core promoter. Biochem Biophys Res Commun **432**(4): 643-649.
14. **Qi Wu** and Qiang Liu (2012) ; Do hepatitis B virus and hepatitis C virus co-infections increase hepatocellular carcinoma occurrence through synergistically modulating lipogenic gene expression?" Hepatol Res **42**(8): 733-740.

PRESENTATIONS

1. Wu, Q. (2016). Poster presentation: The Effect of PTEN on HCV Infection. *Canadian Digestive Diseases Week*. The Fairmont Queen Elizabeth, Montreal, QC, Canada, February 27.
2. Wu, Q. (2016). Poster presentation: The Effect of PTEN on HCV Infection. *5th Canadian Symposium on Hepatitis C Virus*. The Fairmont Queen Elizabeth, Montreal, QC, Canada, February 26.
3. Wu, Q. (2015). Poster presentation: Interaction between HCV Core and PTEN Plays a Role in Regulating HCV Replication. *Canadian Digestive Diseases Week*. Fairmont Banff Springs Hotel, Banff, AB, Canada, March 1.
4. Wu, Q. (2015). Poster presentation: Interaction between HCV Core and PTEN Plays a

- Role in Regulating HCV Replication. *4th Canadian Symposium on Hepatitis C Virus*. Banff Center, Banff, AB, Canada, February, 28.
5. Wu, Q. (2014). Poster presentation: The Effect of PTEN on HCV Infection. *3rd Canadian Symposium on Hepatitis C Virus*. Metro Toronto Convention Center, Toronto, ON, Canada, February 7.
 6. Wu, Q. (2013). Poster presentation: The Effect of PTEN and SREBP-1 on HCV Replication. *2nd Canadian Symposium on Hepatitis C Virus*. Inn at Laurel Point, Victoria, BC, Canada, March 4.
 7. Wu, Q. (2012). Poster presentation: The Effect of PTEN on HCV Infection and Its Role in Carcinogenesis. *WCVN's annual Graduate Student Poster Days*. The Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK, Canada, March 13-14.
 8. Wu, Q. (2012). Poster presentation: The Effect of PTEN on HCV Infection and Its Role in Carcinogenesis. *19th Annual Life & Health Sciences Research Day*. Education Gymnasium, University of Saskatchewan, Saskatoon, SK, Canada, March 9.