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Education

Sep 1999 – Jun 2003: College of Veterinary Medicine, Jilin Agriculture University, B.S.

Aug 2003 – Aug 2005: Department of Veterinary Medicine, Graduate School of Chungnam National University, M.S.

Mar 2007 – Aug 2011: Department of Infection Biology, Graduate School of Chungnam National University, Ph.D.

Experiences

Sep 2011 – Aug 2012: Department of Infection Biology, College of Medicine, Chungnam National University, Postdoctoral fellow

Sep 2012 – Dec 2015: Department of Gastroenterology, Affiliated Hospital of Guangdong Medical University, Assistant Professor

Jan 2016 – present: Department of Gastroenterology, Affiliated Hospital of Guangdong Medical University, Associate Professor

I hereby certify the above statement to be true and correct in every detail.

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Selected Publications

1. **Quan JH**, Kang BH, Yang JB, Rhee YE, Noh HT, Choi IW, Cha GH, Yuk JM, Lee YH. *Trichomonas vaginalis* Induces SiHa Cell Apoptosis by NF- κ B Inactivation via Reactive Oxygen Species. *Biomed Res Int.* 2017;2017:3904870. doi: 10.1155/2017/3904870.
2. **Quan JH**, Huang R, Wang Z, Huang S, Choi IW, Zhou Y, Lee YH, Chu JQ. P2X7 receptor mediates NLRP3-dependent IL-1 β secretion and parasite proliferation in *Toxoplasma gondii*-infected human small intestinal epithelial cells. *Parasit Vectors.* 2018 Jan 2;11(1):1.
3. Lee JH, **Quan JH**, Choi IW, Park GM, Cha GH, Kim HJ, Yuk JM, Lee YH. *Fasciola hepatica*: Infection Status of Freshwater Snails Collected from Gangwon-do (Province), Korea. *Korean J Parasitol.* 2017 Feb;55(1):95-98.
4. Chu JQ, Jing KP, Gao X, Li P, Huang R, Niu YR, Yan SQ, Kong JC, Yu CY, Shi G, Fan YM, Lee YH, Zhou Y, **Quan JH**. *Toxoplasma gondii* induces autophagy and apoptosis in human umbilical cord mesenchymal stem cells via downregulation of Mcl-1. *Cell Cycle.* 2017 Mar 4;16(5):477-486.
5. Chu JQ, Shi G, Fan YM, Choi IW, Cha GH, Zhou Y, Lee YH, **Quan JH**. Production of IL-1 β and Inflammasome with Up-Regulated Expressions of NOD-Like Receptor Related Genes in *Toxoplasma gondii*-Infected THP-1 Macrophages. *Korean J Parasitol.* 2016 Dec;54(6):711-717.

6. Shi G, Wang TT, **Quan JH**, Li SJ, Zhang MF, Liao PY, Fan YM. Sox9 facilitates proliferation, differentiation and lipogenesis in primary cultured human sebocytes. *J Dermatol Sci*. 2017 Jan;85(1):44-50.
7. Choi IW, Kim HY, **Quan JH**, Ryu JG, Sun R, Lee YH. Monitoring of *Fasciola Species* Contamination in Water Dropwort by cox1 Mitochondrial and ITS-2 rDNA Sequencing Analysis. *Korean J Parasitol*. 2015 Oct;53(5):641-5.
8. **Quan JH**, Chu JQ, Kwon J, Choi IW, Ismail HA, Zhou W, Cha GH, Zhou Y, Yuk JM, Jo EK, Lee YH. Intracellular Networks of the PI3K/AKT and MAPK Pathways for Regulating *Toxoplasma gondii*-Induced IL-23 and IL-12 Production in Human THP-1 Cells. *PLoS One*. 2015 Nov 3;10(11):e0141550.
9. Yang JB, **Quan JH**, Kim YE, Rhee YE, Kang BH, Choi IW, Cha GH, Yuk JM, Lee YH. Involvement of PI3K/AKT and MAPK Pathways for TNF- α Production in SiHa Cervical Mucosal Epithelial Cells Infected with *Trichomonas vaginalis*. *Korean J Parasitol*. 2015 Aug;53(4):371-7.
10. **Quan JH**, Choi IW, Ismail HA, Mohamed AS, Jeong HG, Lee JS, Hong ST, Yong TS, Cha GH, Lee YH. Genetic Diversity of *Schistosoma haematobium* Eggs Isolated from Human Urine in Sudan. *Korean J Parasitol*. 2015 Jun;53(3):271-7.

11. Kim HY, Choi IW, Kim YR, **Quan JH**, Ismail HA, Cha GH, Hong SJ, Lee YH. *Fasciola hepatica* in snails collected from water-dropwort fields using PCR. Korean J Parasitol. 2014 Dec;52(6):645-52.
12. **Quan JH**, Choi IW, Yang JB, Zhou W, Cha GH, Zhou Y, Ryu JS, Lee YH. *Trichomonas vaginalis* metalloproteinase induces mTOR cleavage of SiHa cells. Korean J Parasitol. 2014 Dec;52(6):595-603.
13. **Quan JH**, Kang BH, Cha GH, Zhou W, Koh YB, Yang JB, Yoo HJ, Lee MA, Ryu JS, Noh HT, Kwon J, Lee YH. *Trichomonas vaginalis* metalloproteinase induces apoptosis of SiHa cells through disrupting the Mcl-1/Bim and Bcl-xL/Bim complexes. PLoS One. 2014 Oct 24;9(10):e110659.
14. Zhou W, **Quan JH**, Lee YH, Shin DW, Cha GH. *Toxoplasma gondii* Proliferation Require Down-Regulation of Host Nox4 Expression via Activation of PI3 Kinase/Akt Signaling Pathway. PLoS One. 2013 Jun 18;8(6):e66306.
15. **Quan JH**, Zhou W, Cha GH, Choi IW, Shin DW, Lee YH. Kinetics of IL-23 and IL-12 secretion in response to *Toxoplasma gondii* antigens from THP-1 monocytic cells. Korean J Parasitol. 2013 Feb;51(1):85-92.

16. **Quan JH**, Cha GH, Zhou W, Chu JQ, Nishikawa Y, Lee YH. Involvement of PI 3 kinase/Akt-dependent Bad phosphorylation in *Toxoplasma gondii*-mediated inhibition of host cell apoptosis. *Exp Parasitol*. 2013 Apr;133(4):462-71.
17. Yu YM, Cho YH, Youn YN, **Quan JH**, Choi IW, Lee YH. Quantitative evaluation of viability- and apoptosis-related genes in *Ascaris suum* eggs under different culture-temperature conditions. *Korean J Parasitol*. 2012 Sep;50(3):243-7.
18. Ismail HA, **Quan JH**, Wei Z, Choi IW, Cha GH, Shin DW, Lee YH, Song CJ. Gene expression profiles in genetically different mice infected with *Toxoplasma gondii*: ALDH1A2, BEX2, EGR2, CCL3 and PLA2. *Korean J Parasitol*. 2012 Mar;50(1):7-13.
19. **Quan JH**, Chu JQ, Ismail HA, Zhou W, Jo EK, Cha GH, Lee YH. Induction of protective immune responses by a multiantigenic DNA vaccine encoding GRA7 and ROP1 of *Toxoplasma gondii*. *Clin Vaccine Immunol*. 2012 May;19(5):666-74.

***Gothic type** expressed the papers as corresponding author.