

Journals

2022

18. Sang-suk Lee*, Eun-Jae Kim*, Mahbub Hasan Flow characteristics of the conjugate of anti-CD3 monoclonal antibodies and magnetic nanoparticle in PBS and blood vessels. *Avances in Experimental Medicines and Biology* (Accepted in 2022) (SCI, IF = 2.622).

2021

17. Sang-Heon Choi, Sang-Suk Lee*, Mikyung Kang, Eun-Jae Kim, Hasung Kang, **Hasan Mahbub**. Properties of the Drift Velocity in a Fluid of Foralumab Antibodies and Magnetic Nanoparticles with a Conjugated Structure. *New Phys.: Sae Mulli* 2021; 71: 976-984

16. Soo Hyun Lee*, Gakyung Lee*, Ji-Eun Seo, **Mahbub Hasan**, Oh-Seung Kwon, Byung Hwa Jung. Employing metabolomic approaches to determine the influence of age on experimental autoimmune encephalomyelitis (EAE). *Mol Immunol* (2021 Apr 17; 135;84-94)(SCI, IF =3.64).

2020

15. Khandoker Asiqur Rahman, **Mahbub Hasan**, Ji Eun Seo, Anca Raluca Muresan, Hye Jin Song, Hophil Min, Jonghyung Son, Jaeick lee, Jonhee Lee, Byungjoo Kim, Oh-Seung Kwon. Severity of the autoimmune encephalomyelitis symptoms in mouse model by inhibition of LAT-1 transporters. *J. Pharm. Investig.*2020; 50:481-491 (SCI, IF = 5.4).

2019

14. Ga-Kyung Lee *, **Mahbub Hasan ***, Oh-Seung Kwon, Byung-Hwa Jung. Identification of altered metabolic pathways during disease progression in EAE mice via metabolomics and lipidomics. (*Neuroscience*. 2019 Jul 31; 416:74-87) (SCI, IF = 3.244).

13. **Mahbub Hasan ***, Hophil Min *, Khandoker Asiqur Rahaman, Anca Raluca Muresan, Hyeyoon Kim, Dohyun Han, Oh-Seung Kwon. Quantitative proteome analysis of brain sub-regions and spinal cord from experimental autoimmune encephalomyelitis mice by TMT-based mass spectrometry. (*Proteomics*. 2019 Mar;19(5):e1800355. doi: 10.1002/pmic.201800355. Epub 2019 Feb 21) (SCI, IF =3.104).

2017

12. **Mahbub Hasan**, Ji-Eun Seo, Khandoker Asiqur Rahaman, Hophil Min, Ki Hun Kim, Changmin Sung, Junghyun Son, Min-Jung Kang, byung Hwa Jung, Won Sang Park, and Oh-Seung Kwon. Novel genes in brain tissues of EAE-induced normal and obese mice: Upregulation of metal ion-binding protein genes in obese-EAE mice. (*Neuroscience* 2016 Dec 10; 343:322-336) (SCI, IF =3.38)

2016

11. Joon-Seung Han, Khandoker Asiqur Rahaman, Ji-Eun Seo, **Mahbub Hasan**, Kyung-Tae Lee, Hophil Min, Kang Mi Lee, Ju-Hyung Park, Ho Jun Kim, Ki Hun Kim, Junghyun Son,

Jaeick Lee, Oh-Seung Kwon, [Human chorionic gonadotropin \(hCG\) sub-chronic administration mediated MMP-9 activities and cytokine association deteriorate experimental autoimmune encephalomyelitis \(EAE\) condition in mice model](#). *J Pharm Investig* 2016 Sep 12; 46(7):375–383 (SCI, IF = 5.4).

10. Mahbub Hasan, Ji-Eun Seo, Khandoker Asiqur Rahaman, Min-Jung Kang, Byung-Hwa Jung, and Oh-Seung Kwon. [Increased levels of brain serotonin correlated with MMP-9 activity and IL-4 levels resulted in severe experimental autoimmune encephalomyelitis \(EAE\) in obese mice](#). (*Neuroscience*. 2016 Apr 5; 319:168-82) (SCI, IF= 3.244)

9. Ji-Eun Seo, **Mahbub Hasan**, Khandoker Asiqur Rahaman, Min-Jung Kang, Byung-Hwa Jung, and Oh-Seung Kwon. [A leading role for NADPH oxidase in an in vitro study of experimental autoimmune encephalomyelitis](#). (*Mol Immunol*. 2016 Feb 26; 72:19-27) (SCI, IF = 3.236)

2015

8. Ji-Eun Seo, **Mahbub Hasan**, Joon-Seung Han, Min-Jung Kang, Byung-Hwa Jung, Seung-Ki Kwok, Ho-Youn Kim, Oh-Seung Kwon. [Experimental autoimmune encephalomyelitis and age-related correlations of NADPH oxidase, MMP-9, and cell adhesion molecules: The increased disease severity and blood-brain barrier permeability in middle-aged mice](#). (*J Neuroimmunol*. 2015 Oct 15; 287:43-53) (SCI, IF= 2.536)

7. Ji-Eun Seo, **Mahbub Hasan**, Joon-Seung Han, Nak-Kyoon Kim, Ji Eun Lee, Kang Mi Lee, Ju-Hyung Park, Ho Jun Kim, Junghyun Son, Jaeick Lee, Oh-Seung Kwon. [Dependency of experimental autoimmune encephalomyelitis induction on MOG 35–55 properties modulating matrix metalloproteinase-9 and interleukin-6](#) (*Neurochemical Research* (2015), 41(4), 666-676) (SCI, IF= 2.581)

2013

6. Md. Mamunul Haque, Hye- Yeon Im, Ji-Eun Seo, **Mahbub Hasan**, Kyoungja Woo, Oh-Seung Kwon. [Effects of folic acid and polyethylene glycol coated quantum dots on toxicity and tissue uptake to precision-cut spleen slices of rats](#). (*J of Pharmaceutical Investigation* (2013) 43:375–383) (SCI, IF = 5.4).

5. Md. Mamunul Haque, Hye- Yeon Im, Ji-Eun Seo, **Mahbub Hasan**, Kyoungja Woo, Oh-Seung Kwon. [Acute Toxicity and Tissue Distribution of CdSe/CdS-MPA Quantum Dots after Repeated Intraperitoneal Injection to Mice](#). (*J Appl Toxicol*. 2013 Sep;33(9):940-50) (SCI, IF= 2.98)

2012

4. Md. Mamunul Haque, Hye- Yeon Im, Ji-Eun Seo, **Mahbub Hasan**, Sailendra Nath Sarma, Kyoungja Woo, Oh-Seung Kwon. [Evaluation of CdSe/CdS-PEG-FA quantum dots: distribution and observable-adverse-effect-level in mice after intravenous injection](#). (*J of Pharmaceutical Investigation* (2012) 42:4: 203-212) (SCI, IF = 5.4).

3. **Mahbub Hasan**, Nurul Karim, Md. Akhtaruzzaman, Md. Shakhaoat Hossain, Md. Mazibur Rahman, Md. Abbas Alam, M. Alamgir Zaman Chowdhury. [Determination of Pesticide](#)

Residues in Agricultural Soil using High Performance Liquid Chromatography (HPLC), Gazipur District, Bangladesh. Research & Reviews: A Journal of Toxicology 5 (3): 1-7

2. M. A. Z. Chowdhury, **Mahbub, Hasan**, Nurul Karim, A.N.M. Fakhruddin, Shakaoat Hossain, A.K.M. Alauddin Chowdhury, Hafeza Akter, Khorshed Alam. Contamination and Health Risk Assessment of Pesticide Residues in Vegetables from Agricultural Fields of Gazipur District, Bangladesh. American-Eurasian J. Agric. & Environ. Sci. 01/2014; 5(14):421-27.

1. Alamgir Zaman Chowdhury, **Mahbub Hasan**, M. S. Hossain, Md. Baki Billah, Lutfun Nahar, Md. Abdus Salam, Nurul Karim. Determination of pesticide residues from irrigated water in Gazipur district, Bangladesh using High-Performance Liquid Chromatography (HPLC). Jahagirnagar University Journal of Biological Science 01/2012.