

## **CURRICULUM VITAE**



**Mohammad Lalmoddin Mollah, DVM, MS, Ph.D.**  
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### **Business Address**

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### **Current Position**

Professor

### **Chairman**

Department of Medicine, Surgery and Obstetrics, December 2012 to December 2014.

### **Postdoctoral Experience**

University Putra Malaysia, Serdang, Malaysia. March, 2012 to November, 2012.  
Konkuk University, Seoul, South Korea, March, 2011 to February, 2012.

### **Teaching Experience**

Lecturer at Sungshin Women University, Seoul, South Korea, March, 2010 to February, 2011.

### **Higher Education Quality Enhancement Project (HEQEP) Experience**

**Sub-project Manager (SPM)**, June 2014 to December 2016.

Sub-project Title: Modernization of the Teaching Veterinary Clinics for promoting quality veterinary education through establishing linkages between the livestock farm communities at surrounding Upazilas of the Faculty of Animal Science and Veterinary Medicine, PSTU.

### **Education**

#### **Ph.D. February, 2010:**

Department of Medicine, College of Veterinary Medicine.  
Kyungpook National University, Daegu, South Korea.

#### **M.S. February, 2007:**

Department of Dermatology, College of Medicine  
Chungnam National University, Daejeon, South Korea.

**D.V.M. (Doctor of Veterinary Medicine). February, 2001:**

Sylhet Govt. Veterinary College, School of Life Science

Shajalal University of Science & Technology

Sylhet, P.C. 3114, Bangladesh.

**Research Experience**

Currently, I am investigating *Antrodia camphorata* grown on germinated brown rice inhibits human hepatic HepG2 cells proliferation via G0/G1 cell cycle arrest and apoptosis induction. *Antrodia camphorata* grown on germinated brown rice (AGBR); AGBR-hexane, AGBR-BuOH and AGBR-EtoAc extracts. I studied cell culture, Cell proliferation assay, DAPI staining,, Flow cytometric cell cycle analysis and Western blotting analysis and I also studied metastasis effect of *antrodia camphorate* (in vitro and in vivo). I studied G2/M Phase Arrest by *Cordyceps militaris* Grown on Germinated Soybean, through Down-regulation of Cdc25c and Cyclin B1 in Human Colon Cancer HT-29 Cells. Extract preparation from various kinds of sample like as mushroom.

I studied age-dependent fertility lose of ob/ob mouse. The leptin-deficient ob/ob mouse is characterized by a morbid obesity and infertility. Histology (H & E staining) of ovary, vaginal smear and Reverse transcription polymerase chain reaction (RT-PCR) analysis were carried out. Hematoxylin/eosin-stained count the CL and ovarian follicles. Real time-PCR, TUNEL staining analysis, RIA method to measure blood-hormonal blood level, etc., were routinely carried out.

I studied anti-cancer effect of a medicinal plant (*Bulnesia sarmienti*) on human lung cancer (H460 and A549) and colon cancer (SW480 and HT29) cell lines in vitro and in vivo. MTT assay, DAPI staining, colony forming assay, RT-PCR, cell cycle analysis, DNA fragmentation, annexin V-FITC staining, and immunoblot analysis on cells were extensively utilized. I also studied Anti-Metabolic Syndrome Effects of Wild Ginseng in 3T3-L1 Adipocyte and ob/ob mice. During that study I adopted established scientific methods such as western blot, cell cycle analysis, cytotoxicity assay, blood glucose analysis, histological staining, etc.

Established the radioresistant cell line H460R from radiosensitive parental H460 cells. To identify the radioresistance-related genes, we performed microarray analysis and selected several candidate genes. During that study I adopted established scientific methods such as clonogenice and MTT assay, microarray analysis, western blot, RT-PCR etc.

**Scholarships and Awards**

1. Regional Industrial Promotion Projects by Ministry of Knowledge Economy, Republic of Korea.
2. The Technology Development Program for Agriculture and Forestry, Ministry of Agriculture and Forestry, Republic of Korea.
3. Kyungpook National University Scholarship.
4. BK21, South Korea.

## Publications

1. Prevalence of clinical mastitis at Babugonj upazila in Barishal. Dipa Rani Pal, Sanjida Tama, Tarun Chandra Mondal, Mohammad Lalmoddin Mollah, Sirajul Islam Sagor and Jannatul Ferdous. *Journal of Fisheries, Livestock and Veterinary Science*. 2023, Vol. 03, Issue 02: 139-147.
2. Prevalence and Associated Risk Factors of Lumpy Skin Disease in Cattle in Barishal District of Bangladesh. **Mollah Mohammad Lalmoddin\***, Pal Dipa Rani, Ferdous Jannatul. *Veterinary Sciences: Research and Reviews*, 2023, 9(2): 161-168.
3. Prevalence of gastrointestinal parasitic infestation in cattle and goat at Boalia upazilla in Rajshahi district of Bangladesh. Chalanika Sarker<sup>1</sup>, Maria Akter<sup>1</sup>, Ashraf Kayser<sup>1</sup>, Md. Ali Asgar<sup>2</sup> and **Mohammad Lalmoddin Mollah<sup>1</sup>\*** Asian J. Med. Biol. Res. 2021, 7 (4), 367-374.
4. A study on prevalence and therapeutic assessment of Peste des Petits Ruminants in goat at Upazilla Veterinary Hospital Babugonj in Barishal District of Bangladesh. Maria Akter, Chalanika Sarker, Ashraf Kayser, Dipa Rani Pal and **Mohammad Lalmoddin Mollah\*** Asian Australas. J. Biosci. Biotechnol. 2021, 6 (3), 142-146.
5. Seroprevalence and associated risk factors of mycoplasmosis in layer chickens at southern region of Bangladesh. Md. Shahjamal Hossain Sobuj<sup>1</sup>, Bidyut Matubber<sup>2\*</sup>, Md. Sahidul Islam<sup>3</sup>, Md. Shamsur Rahman Sumon<sup>4</sup>, **Mohammed Lalmoddin Mollah<sup>1</sup>** and Md. Selim Ahmed<sup>1\*</sup> Asian J. Med. Biol. Res. 2021, 7 (3), 292-297.
6. Over accumulation of fat caused rapid reproductive senescence but not loss of ovarian reserve in ob/ob mice. **Mohammad Lalmoddin Mollah<sup>2</sup>**, Hee-Seon Yang<sup>1</sup>, SoRa Jeon<sup>1</sup>, KilSoo Kim<sup>3</sup>, Yong-Pil Cheon<sup>1\*</sup>. *Journal of the Endocrine Society* (2021) 5 (1): 1-12.
7. Origin of Lumbosacral Plexus and its Branches in Domestic Turkey (M. gallopavo). MT Hussan<sup>\*1</sup>, SM Hanif<sup>2</sup>, **ML Mollah<sup>2</sup>**, MS Islam<sup>3</sup>, MJH Shuvo<sup>1</sup>, and MA Jahid<sup>1</sup>. *Bangladesh Veterinary Journal* (2019) 53 (1-4): 18-23.
8. Seroprevalence and Risk Factors of Brucellosis in Black Bengal Goats at Coastal Region of Bangladesh. Dipa Rani Pal<sup>1</sup>, Dibyendu Biswas<sup>1</sup>, and **Mohammad Lalmoddin Mollah<sup>1\*</sup>**. *International Journal of Animal and Veterinary Sciences* (2019) 06: 56-61.
9. Effects of *Nigella sativa* and amino acids on growth performance and haematological parameters of broiler. M.S.U. Akon<sup>1</sup>, M.R. Amin<sup>1</sup>, M.T. Hussan<sup>2</sup>, R. Akhter<sup>4</sup>, **M.L. Mollah<sup>3\*</sup>**. *Bangl. J. Vet. Med.* (2019). 17 (1): 107-115.
10. Evaluation of some prescribed and over-the-counter drugs induced hemato-biochemical changes in mice. Mohammad Rohul Amin<sup>1\*</sup>, Shukhi Khanam<sup>1</sup>, Lalin Mazumder<sup>1</sup>, A.B.M. Zunayeed Rahman<sup>1</sup>, A.K.M. Mostafa Anower<sup>2</sup> and **Mohammad Lalmoddin Mollah<sup>3</sup>**. *Ashian Journal of Medical and Biological Research*, P 297-302, 2019
11. Prevalence of Subclinical Mastitis and its Microorganisms in Lactating cows at Satkhira District of Bangladesh. J.M.N. Nahian, M. Shohag<sup>1</sup>, D.R. Pal, **M.L. Mollah\*** *Wayamba Journal of Animal Science*, P1706 - P1715, 2018.
12. Study on clinical diseases and disorders of cattle and goat at Gopalganj District in Bangladesh. Nidra Boti Khan<sup>1</sup>, Dipa Rani Pal<sup>1</sup> and **Mohammad Lalmoddin Mollah<sup>1\*</sup>** *Asian J. Med. Biol. Res.* 3 (4), 412-418, 2017.

13. Poverty alleviation of destitute women and poor farmers in Barisal district through beef fattening. Mohammad Rohul Amin<sup>1\*</sup>, Mohammad Hafizur Rahman<sup>2</sup>, Milton Talukder<sup>1</sup>, Md. Ali Asgar<sup>1</sup>, Ashit Kumar Paul<sup>3</sup> and **Mohammad Lalmoddin Mollah<sup>3</sup>**. *Asian J. Med. Biol. Res.* 2 (1), 48-54, 2016.
14. Effects of selected vitamins and minerals on growth rate and hematological parameters in broilers Mohammad Harun-Ar-Rashi<sup>d1</sup>, Nazim Ahma<sup>d2</sup>, Mohammad Rohul Ami<sup>n3</sup> and **Mohammad Lalmoddin Mollah<sup>4\*</sup>**. *Asian J. Med. Biol. Res.* 1 (3), 487-494, 2015.
15. Occurrences, treatment and antibiotic resistant pattern of colibacillosis and salmonellosis in broiler. M. A. Hossain, M. R. Amin, M. D. I. Khan, **M. L. Mollah** and M. A. Amin. *J. Biosci. Agric. Res.* 04 (02): 67-73, 2015.
16. Mohammad Rezaul Rarim<sup>1\*</sup>, **M. L. Mollah<sup>2</sup>**, K.-S. Kim<sup>3</sup>. Conducting and biopolymer based electrospun nanofiber membranes for wound healing applications. *Current Nanoscience*, 12(2): 220-227, 2015.
17. **Mohammad Lalmoddin Mollah<sup>1</sup>**, DaeIk Kim<sup>2</sup> and KilSoo Kim<sup>1</sup>. Induction of Apoptosis of SW480 Human Colon Cancer Cells by (-) -Epicatechin Isolated from *Bulnesia sarmienti*. *Anticancer Research.* 32: 5353-5362, 2012.
18. **Mohammad Lalmoddin Mollah<sup>1</sup>**, Dong Ki Park<sup>1</sup>, Hye-Jin Park<sup>1</sup>. *Cordyceps militaris* Grown on Germinated Soybean Induces G2/M Cell Cycle Arrest through Downregulation of Cyclin B1 and Cdc25c in Human Colon Cancer HT-29 Cells. *Evidence-Based Alternative and Complementary Medicine*, Article ID 249217, 7 pages. 2012.
19. **Mohammad Lalmoddin Mollah**, Yong-Pil Cheon, Jun-Gyo In, Deok-Chun Yang, Young-Chul Kim, Jae-Chan Song, and Kil-Soo Kim. Inhibitory effects of cultivated wild ginseng on the differentiation of 3T3-L1 Pre-adipocytes. *Journal of Ginseng Research.* 35 (10), 45-51. 2011.
20. Lee, YS, **Mollah ML**, Sohn KC, Shi G, Kim, DH, Cho MJ, Kim S, Lee YH, Kim CD, LH. ID3 mediates X-ray-induced apoptosis of keratinocytes through the regulation of  $\beta$ -catenin. *Journal of Dermatological Science.* 60, 138-142. 2010.
21. Young Sook Lee, Jung-Hwa Oh, Seokjoo Yoon, Myung-Sang Kwon, Chang-Woo Song, Ki-Hwan Kim, Moon-June Cho, **Mohamad Lalmodin Mollah**, Yoon-Dong Kim, Chang Deok Kim, and Jeung-Hoon Lee M.D. Differential gene expression profiles of radioresistant non-small cell lung cancer cell lines established by fractionated irradiation: tumor protein p53 inducible protein 3 confers sensitivity to ionizing radiation. *Int J Radiat Oncol Biol Phys* 77. 858-866. 2010.
22. **Mohammad Lalmoddin Mollah<sup>1</sup>**, KilSoo Kim<sup>2</sup>, Yong-Pil Cheon<sup>1</sup>, Age Dependent ob/ob Mice Fertility Activity. *The Korean Journal of Reproductive Medicine.* Vol. 37, 2, Page 41-42. 2010.
23. **Mohammad Lalmoddin Mollah**, Song J-C, Park C-H, Lee G-D, Hong J-H, Ryoo ZY, Lee S, Chang K-T, and Kim KS. Anticancer Activity and Apoptotic Effects of *Bulnesia sarmienti* Against Human Lung Cancer H460 Cells. *Oncology Research* 18, 259-267. 2009.
24. **Mohammad Lalmoddin Mollah**, Gi-Sang Kim, Hye-Kyung Moon, Shin-Kyo Chung, Yong-Pil Cheon, Jong-Kuk Kim and Kil-Soo Kim Antiobesity Effects of Wild Ginseng (*Panax ginseng* C.A. Meyer) Mediated by PPAR- $\gamma$ , GLUT4 and LPL in ob/ob Mice. *Phytotherapy Research* 23, 220-225. 2009.
25. **Mohammad Lalmoddin Mollah**, Jung-Ok Kim, Gee-Dong Lee, Chang-Ho Park, Joo-Heon Hong, Hak-Yoon Kim, and Kil-Soo Kim. Growth-inhibitory effects of a *Bulnesia sarmienti*

aqueous extract on A549 Cells *in vitro* and S180 cells *in vivo*. *Immunopharmacology and Immunotoxicology* 31, 492-98. 2009.

26. Cheon Yong-Pil, **Mohammad Lalmoddin Mollah**, Park Chang-Ho, Hong Joo-Heon, Lee Gee-Dong, Song Jae-Chan, and Kim Kil-Soo. *Bulnesia Sarmienti* Aqueous Extract Inhibits inflammation in LPS-Stimulated RAW264.7 Cells. *Korean Journal of Life Science* 19, 479-485, 2009.
27. Y-S. Lee, D. K. Cho, C. D. Kim, **Mollah ML**, J. Y. Jang, J. K. Parka, and J-H. Lee. Expression profiling of radiation-induced genes in radiodermatitis of hairless mice. *British Journal of Dermatology* 154, 829-838. 2006.
28. Y.S. Lee, D.K. Choi, C.D. Kim, M. Im, **M.L. Mollah**, J.Y. Jang, T.J. Oh, S. An, Y.J. Seo, G.M. Hur, M.J. Cho, J.K. Park and J.H. Lee. Expression profiling of radiation-induced genes in radiodermatitis of hairless mice. *Cutaneous Biology*. 1365-2133, 2006.

### **Presentations and Poster Awards**

1. **Mollah ML**. Age Dependent ob/ob mice fertility activity. The Korean society for reproductive medicine. November, 27. 2010.
2. **Mollah ML**. Anti-Metabolic Syndrome Effects of Wild Ginseng in 3T3-L1 Adipocyte and ob/ob mice. The Korean Society of Ginseng. May 22, 2009.
3. **Mollah ML**. Effects of Wild Ginseng on Metabolic Syndrome in 3T3-L1 Adipocyte and ob/ob mice. Korean Association for Laboratory Animal Science. 2009.08.29.
4. **Mollah ML**. Anticancer activity of *Bulnesia sarmienti* extract against human lung cancer H460 in vitro and in vivo. Korean Association for Laboratory Animal Science. 2008.05.22

### **Manuscripts under preparation:**

1. **Mohammad Lalmoddin Mollah<sup>1</sup>**, and Maznah Ismail<sup>2</sup>. *Antrodia camphorata* Grown on Germinated/Brown Rice Inhibits Human Hepatic Carcinoma Cells Proliferation via G0/G1 Cell Cycle Arrest and Apoptosis Induction.
2. **Mollah ML**, Hye jin park. Inhibition of G0/G1 Cell-Cycle Regulation in Human Colorectal Carcinoma Cells by *Antrodia camphorate* and intraperitoneal tumor growth in vivo.

### **References**

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