

Suk-Yul Jung, PhD, iMLS (ASCPi), MT (KAMT)

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CURRENT AFFILIATION

Address

P.O. Box 910
State University, AR 72467

Position

Assistant Professor

Employment period

March 2024 - present

EDUCATION

Dept. of Microbiology, Ajou University School of Medicine, Korea

PhD of Molecular and Immunological Medicine, Feb 2004

Dissertations: In vivo transfection system of the *nfa1* gene cloned from pathogenic *Naegleria fowleri*

Dept. of Microbiology, Ajou University School of Medicine, Korea

Master of Molecular and Immunological Medicine, Feb 2001

Thesis: Molecular cloning and characterization of an antigen-related gene encoding a calcium-binding protein from *Naegleria fowleri*

Yonsei University, Korea

Bachelor of Science in Biomedical Laboratory Science, Feb 1999

RELEVANT EXPERIENCE

Namseoul University, Korea

Tenure-track professor in Department of Biomedical Laboratory Science, Sep 2009 – present

- Head of BLS department
- Head of BLS-graduate school
- Director of a research center “Molecular Diagnostics Research Institute”
- Teaching
- Research
- Fund Application
- Writing papers
- Supervisor for undergraduates and postgraduates
- Supervision of lab
- Collaboration with hospitals
- Manager of an animal lab
- Executives of Institutional Review Board at Namseoul University
- Cooperative professor for Dept. of Dental Hygiene-postgraduates at Namseoul University
- Collaborations between University of Edinburgh, UK. and Namseoul University, Korea

Edinburgh University, UK

Visiting professor in Molecular immunology, Mar 2018 – Feb 2019

- Research cooperation
- Writing papers

Wonkwang University, Korea

Research professor in Molecular immunology, Sep 2008 – Aug 2009

- Overall management of the director's research projects
- Experimental support and management for researchers, masters, doctorates, and postdocs

Cardiff University, UK

Joint-Postdoctoral fellow in School of Pharmacy and Dentistry, Sep 2006 – Aug 2008

- Joint research between the School of Pharmacy and the School of Dentistry to support smooth cooperation between the two schools
- Interaction study on the effect of anaerobic bacteria used in pharmacy on dental infection

Birkbeck college, University of London, UK

Postdoctoral fellow in Cell biology based on host-pathogen interaction, Sep 2005 – Aug 2006

- Research of pathogen-pathogen interaction and host cell-pathogen interaction by cell-based systems
- Management of master's students
- Laboratory management

Dept. of Microbiology, Ajou University School of Medicine, Korea

Research lecturer in Molecular biology and Immunology, Mar 2004 – Aug 2005

- Voluntary experiment planning and research
- Management of master's and doctoral students
- Laboratory management
- Applying for and receiving research funding as a co-director

Dept. of Microbiology, Ajou University School of Medicine, Korea

Research assistant in Molecular biology and Immunology, Mar 2000 – Feb 2004

- Conducted experiments in the supervisor's research projects
- Paper writing and presentation
- Researchers management

Yonsei University Hospital, Korea

Student Clinical Technician in Biomedical Laboratory Science, Sep 1998 – Dec 1998

- Trained in the Department of Diagnostic Laboratory Medicine and Pathology for 16 weeks

TEACHING EXPERIENCE**Namseoul University, Korea**

Undergraduates of Biomedical Laboratory Science, Sep 2009 - present

- Human Parasitology (4th year, 2 credits, 2hr/week)
- Immunology (2nd year, 3 credits, 3 hrs/week)
- Clinical Chemistry and lab-1 (2nd year, 3 credits, 4 hr/week)
- Clinical Chemistry and lab-2 (2nd year, 3 credits, 4 hr/week)
- Molecular Diagnostics and lab (3rd year, 3 credits, 4 hr/week)
- Biochemistry (3rd year, 3 credit, 3hr/week)

Namseoul University, Korea

Postgraduates of Biomedical Laboratory Science, Sep 2009 - present

- Special Topics in Molecular Diagnostics (1st year, 3 credits, 3 hr/week)
- Introduction to Molecular Medicine (1st year, 3 credits, 3 hr/week)
- Advanced Immunology (2nd year, 3 credits, 3 hr/week)
- Immunity and Infectious Diseases (2nd year, 3 credits, 4 hr/week)

Eul-ji University, Korea

Part-time lecturer in Microbiology, Mar 2001 – Aug 2001

RESEARCH GRANTS

Past external research grants

- Supported by Korean Research Foundation, Mar 2022 – Feb 2024
Title: Analysis of pathogenic study of pathogenic proteins of brain-eating amoeba (*Naegleria fowleri*) by mannose and galactose and in vivo immunity
- Supported by Korean Research Foundation, Mar 2020 – Feb 2023
Title: Study of intra-*Naegleria fowleri* signaling, interactions with cytoskeleton factors by saccharide-binding proteins, their diagnostic value and in vivo immunity
- Supported by General Research of Korean Research Foundation, Mar 2017 – Feb 2020
Title: Study of signaling systems of *Acanthamoeba* with the targets of saccharide-binding proteins, the production of monoclonal antibody and the inhibition of its in vivo infection
- Supported by General Research by the Korea for the Advancement of Science and Creativity (KOFAC) grant funded by the Ministry of Education (MOE), Mar 2015 – Feb 2016
Title: A study on the development of contact-lens clearing solutions of natural products and their extracts
- Supported by Health BioMed company, Mar 2014 – Feb 2015
Title: In vivo effects of polysaccharides extracted from *Panax ginseng*
- Supported by General Research of Korean Research Foundation, Mar 2011 – Feb 2014
Title: Study of molecular functions of *Acanthamoeba culbertsoni* mannose-binding protein and interactions between amoeba and human brain microvascular endothelial cell
- Supported by Postdoctoral Research Fund of Korean Research Foundation, Sep 2005 – Aug 2006
Title: Molecular mechanism of *Acanthamoeba* pathogenesis
- Supported by Scholarship in the Korean Academy of Medical Sciences, Mar 2004 – Dec 2004
Title: Inhibition of *nfa1* gene cloned from *Naegleria fowleri* by RNA interference
- Supported by Scholarship in the Korean Academy of Health Encouragement, Mar 2002 – Feb 2004
Title: Eukaryotic transfection of *nfa1* gene cloned from *Naegleria fowleri* and characterization of the Nfa1 protein

HONORS

Best paper award, The 2020 conference on convergence technology (Korea), 2020

Radio interview by English, Prevalence of a brain-eating amoeba by tbs efm primetime (FM 101.3 MHz) (Korea), 2015

Article in Kyunghyang newspaper (one of the most popular newspapers, Korea), In vivo effect of polysaccharides extracted from *Panax ginseng*, 2015

Article in NSP broadcasting internet newspaper (Korea), Biocidal effect of Farm-e-Tok of ClO₂ gas, 2015

Best paper award, The 3rd International Conference on Convergence Technology (Korea), 2013

Outstanding research award, Korean Society for Biomedical Laboratory Science (Korea), 2012

Excellent Oral Presentation in the Korean Society for Parasitology (Korea), Construction for the transfection vector of a cloned *nfa1* gene from pathogenic *Naegleria fowleri* into nonpathogenic *N. gruberi*, 2002

Excellent Poster Presentation in the Korean Society for Parasitology (Korea), Purification and characterisation of the immunodominant 21- kDa protein from *Naegleria fowleri* calcineurin B gene, 2000

PROFESSIONAL LICENSES or CERTIFICATIONS

- International ASCP Certification (ASCPi), International Medical Laboratory Scientist (iMLS), Certificate No. 15802, Acquired in May 2022
- International ASCP Certification (ASCPi), International Molecular Biology (iMB), Certificate No. 589, Acquired in Nov 2023
- Qualification for Professional Clinical Pathologist, Ministry of Health and Welfare, Korea, License No. 28050, Acquired in Apr 1999

PROFESSIONAL AFFILIATIONS

American Society of Clinical Laboratory Sciences, 2024 - present

American Society for Clinical Pathologists, 2022 - present

American Society of Parasitologists, 2022 - present

Korean Society for Medical Pathology, 1999 - present

Korean Society for Clinical Chemistry Professors, 1999 - present

Korean Society for Parasitology and Tropical Medicine, 1999 - present

International Association for Dental Research, 2008 - 2008

British Section of the Society of Protozoologists, 2006 - 2007

EDITORIAL RESPONSIBILITIES

Act as an editorial member

- Biomedical Science Letters
- Convergent Research Society Among Humanities, Sociology, Science, and Technology
- International Journal of Science and Engineering for Healthcare Systems
- World Journal of Biomedical Application and Engineering

Act as an Ad-hoc reviewer

- Acta Tropica
- Biomedical Science Letters
- Experimental Parasitology
- Folia microbiologica
- International Journal of Science and Engineering for Healthcare Systems
- Journal of International Academy of Physical Therapy Research
- Journal of Nanoscience and Natotechnology
- Journal of Parasitology
- Korean Journal of Parasitology
- World Journal of Biomedical Application and Engineering
- World Journal of Microbiology and Biotechnology

PUBLICATIONS

- 1) **Jung SY.** (2023) Association between *Naegleria fowleri* and bacteria, its cytotoxicity and protein activity by monosaccharides. *Acta microbiologica Bulgaria*. 37(1): 72-77.

- 2) **Jung SY.** (2022) Effect of monosaccharides on the interaction between *Acanthamoeba culbertsoni* and *Shigella sonnei* and the cytotoxicity and protease activity of *A. culbertsoni*. *Biomedicine*. 42(6): 1332-1336.
- 3) Son DH, Kim EJ, Matin A, **Jung SY.** (2021) Interaction between *Naegleria fowleri* and pathogenic *Escherichia coli* by mannose and changes in *N. fowleri* protease. *Parasitology Research*. 121(6): 1805-1809.
- 4) **Jung SY.** (2021) Interaction of *Naegleria fowleri* trophozoites with *Escherichia coli* and MRSA by N-acetylglucosamine and galactose. *Biomedical Science Letters*. 27(4): 323-328.
- 5) **Jung SY.** (2021) Possibility of saccharide-binding protein to interactions of *Acanthamoeba castellanii* and several bacteria. *Acta Microbiologica Bulgaria*. 37(4): 215-220.
- 6) **Jung SY.** (2021) Mordants application and data Establishment for natural dye standardization and accuracy. *Journal of Internet of Things and Convergence (JKIOTS)*. 7(4): 35-41.
- 7) **Jung SY.** (2021) Effect of a mannose to the interactions between *Naegleria fowleri* and pathogenic bacteria. *Biomedicine*. 41(3): 623-629.
- 8) Kim DY, Son DH, Matin A, **Jung SY.** (2021) Production of a monoclonal antibody against a galactose-binding protein of *Acanthamoeba castellanii* and its cytotoxicity. *Parasitology Research*. 120(11): 3845-3850.
- 9) **Jung SY.** (2020) Construction of Dyeing Condition System for *Lithospermum erythrorhizon* by Applying Natural Dye and Mordants. *Journal of Internet of Things and Convergence (JKIOTS)*. 6(4): 33-38.
- 10) **Jung SY.** (2020) Interactions between *Acanthamoeba culbertsoni* and pathogenic bacteria and their inhibition by lectin-antibodies. *Journal of Pure and Applied Microbiology*. 14(3): 1687-1693.
- 11) **Jung SY.** (2020) Inhibition of interactions between *Acanthamoeba culbertsoni* trophozoites and bacteria by antibodies to a mannose-binding protein. *Biomedicine*. 40(2): 198-202.
- 12) **Jung SY.** (2020) Usefulness of Chlorine Dioxide to Airborne Bacteria at a Hospital Using Biological Information. *Journal of Internet of Things and Convergence (JKIOTS)*. 6(2): 19-24.
- 13) Kang HK, Sohn HJ, Seo GE, Seong GS, Ham AJ, Park AY, **Jung SY.** Lee SE, Cho SH, Shin HJ. (2020). Molecular detection of free-living amoebae from Namhangang (southern Han River) in Korea. *Scientific Reports*. 10:335 (10 pages).
- 14) **Jung SY.** (2019) Natural staining of silk fabrics by leaves of *Acer Ginnala* and skins of *Pinus densiflora* and color changes by mordants. *Journal of Engineering and Applied Sciences*. 14(24): 9730-9733.
- 15) **Jung SY.** (2019) Practical usage of *Caesalpinia sappan* L. as a natural dye to a silk fabric. *Journal of Engineering and Applied Sciences*. 14(24): 4281-4284.
- 16) Jung M, Lee GW, Cho MA, Song KJ, **Jung SY.** (2019) Effect of chlorine dioxide in reduction of harmful microbes on fermented hot pepper paste. *Food Science and Biotechnology*. 29(00): 1-6.
- 17) Kang AY, Park AY, Shin HJ, Khan NA, Maciver SK, **Jung SY.** (2018) Production of a monoclonal antibody against a mannose-binding protein of *Acanthamoeba culbertsoni* and its localization. *Experimental Parasitology*. 192: 19-24.
- 18) Park AY, Kang AY, **Jung SY.** (2018) Protective effects of a monoclonal antibody to a mannose-binding protein of *Acanthamoeba culbertsoni*. *Biomedical Science Letters*. 24:435-438.
- 19) **Jung SY.** (2018) Natural staining patterns by Cochineal and comparison of their staining patterns by the pre- or post-treatment of mordants. *Research Journal of Pharmacy and Technology*. 11(6) : 2267-2270.
- 20) **Jung SY.** Suyoun Park, Jimin Kim. (2018) Level of UV light awareness and its relation to the factors and information sources contributing to sunglass-purchase among women in their 30s and 40s. *Journal of Engineering and Applied Sciences*. 13(1) : 2496-2499.
- 21) **Jung SY.** (2018) Natural staining of the coat of *Allium cepa* L. and leaf of *Camellia sinensis* var. *assamica* to a silk fabric. *Journal of Engineering and Applied Sciences*. 13(1) : 2492-2495.
- 22) **Jung SY** (2018) Application of *Gardenia jasminoides* and *Curcuma longa* to natural stainings. *Journal of Engineering and Applied Sciences*. 12(26) : 7719-7722.
- 23) Siddiqui R, Yee Ong TY, **Jung SY**, Khan NA (2017) *Acanthamoeba castellanii* interactions with *Streptococcus pneumoniae* and *Streptococcus pyogenes*. *Experimental Parasitology*. 183 : 128-132.
- 24) Abjani F, Khan NA, **Jung SY**, Siddiqui R. (2017) Status of the effectiveness of contact lens disinfectants in Malaysia against keratitis-causing pathogens. *Experimental Parasitology*. 183 : 187-193.
- 25) **Jung SY**, Kim JM, Park SY. (2017) Female consumers' sunglass-purchasing behaviors based on types of lifestyle and their priority. *Journal of Advanced Research in Dynamical and Control Systems*. 09 : 512-517.
- 26) Sohn HJ, Kang HK, Seo GE, Kim JH, **Jung SY**, Shin HJ. (2017) Efficient liquid media for encystation of pathogenic free-living amoebae. *Korean Journal of Parasitology*. 55(3) : 223-238.
- 27) Yun-Seok Jung, Su-Youn, **Jung SY.** (2017) Functional role of *Angelica gigas* and *Achyranthes bidentata* on microorganisms in seborrheic and hair loss scalp. *International Information Institute*. 10(B) : 7813-7820.

- 28) Song KJ, **Jung SY.** (2017) Biocidal effects of chlorine dioxide on isolated and identified pathogens from nosocomial environment–biochemical and technical convergence. *Journal of Digital Convergence.* 15(6) : 339-344.
- 29) **Jung SY.** (2016) Changes of natural staining by *Carthamus tinctorius L.* with various mordants. *International Information Institute.* 19(11) : 5535-5540.
- 30) **Jung SY.** (2016) Immunostimulating effects of polysaccharides extracted from *Schisandra chinensis* fruits. *Asian-Pacific Journal of Multimedia Services Convergent with Art, Humanities, and Sociology.* 6(9) : 605-612.
- 31) **Jung SY,** Ahn MJ, Oh JY, Nam HS, Hong ST, Yun YH, Seo M. (2015) Infection status of endoparasites in foreigner workers Living in Cheonan City, Chungnam province, Korea. *Korean Journal of Parasitology.* 53(2) : 243-246.
- 32) Park AY, Kang AY, Park CY, Hong SH, Hong SH, Lee DY, Lee YJ, Shin HJ, **Jung SY.** (2015) Evaluation of gargling Cololo solution for bacterial growth inhibition. *Oral Biology Research.* 39(2) : 155-158.
- 33) **Jung SY.** (2015) Effect of food supplements for improvement of well-being industry and their cytotoxicity. *Journal of the Korea Entertainment Industry Association.* 9(3) : 409-414.
- 34) **Jung SY,** Park SY. (2014) Applicable natural staining by *Sophora japonica L.* and *Phellodendron amurense Ruprecht.* *International Journal of Applied Engineering Research.* 9(23) : 18215-18222.
- 35) Park SY, **Jung SY.** (2014) Comparison of contact-lens clearing solutions for Acanthamoebial Infection in vitro. *International Journal of Applied Engineering Research.* 9(21) : 8247-8254.
- 36) Park SY, **Jung SY.** (2014) Technical approaches of a natural dye extracted from *Phytolacca americana L.*-berries with chemical mordants. *Technology and Health Care.* 22(3) : 339-343.
- 37) Matin A1, **Jung SY,** Nawaz S. (2014) In vitro assessment of cytokines interactions with *Balamuthia mandrillaris* using human brain microvascular endothelial cells. *Pakistan Journal of Pharmaceutical Sciences.* 27(1) 107-113.
- 38) **Jung SY.** (2014) Safety analysis of solutions for washing of contact lenses. *Journal of the Korea Entertainment Industry Association.* 8(3) : 27-31.
- 39) Kang MH, Park AY, Yang AH, Park YE, Hong SH, Park GS, **Jung SY.** (2014) Immunostimulating effects of polysaccharides of *Panax ginseng* by oral administration into BALB/c mice. *Biomedical Science Letters.* 20(4) : 194-200.
- 40) MH Kang, WH Lee, **SY Jung** (2013) Analysis of bacteria-free living amoebae interactions in environments. *Journal of Convergence Information Technology.* 8(12) : 273-278.
- 41) Tanveer T, Hameed A, Muazzam AG, **Jung SY,** Gul A, Matin A. (2013) Isolation and molecular characterization of potentially pathogenic *Acanthamoeba* genotypes from diverse water resources including household drinking water from Khyber Pakhtunkhwa, Pakistan. *Parasitology Research.* 112(8) : 2925-2932.
- 42) Hoab HM, Muazzam AG, Mir A, **Jung SY,** Matin A. (2013) Evaluation of inhibitory potential of some selective methanolic plants extracts on biological characteristics of *Acanthamoeba castellanii* using human corneal epithelial cells in vitro. *Parasitology Research.* 112(3) : 1179-1188.
- 43) **Jung SY.** (2013) Polymorphisms of PLA2G4A gene associated with C-reactive Protein in Korean elder male. *Journal of the Korea Entertainment Industry Association.* 7(3) : 239-243.
- 44) **Jung SY.** (2013) Effect of contact-lens-clearing solutions to a host cell and *Acanthamoeba.* *NSU Collection of Papers Special Edition in Celebration or the 20th Anniversary.* 1-10.
- 45) Jin HS, Kim BY, Kim J, Hong KW, **Jung SY,** Lee YS, Huh D, Oh B, Chung YS, Jeong SY. (2012) Association between the SPRY1 gene polymorphism and obesity-related traits and osteoporosis in Korean women. *Molecular Genetics and Metabolism.* 108(1) : 95-101.
- 46) Yoo KT, **Jung SY.** (2012) Effects of mannose on pathogenesis of *Acanthamoeba castellanii.* *Korean Journal of Parasitology.* 50(4) : 365-369.
- 47) Kim JH, Matin A, Shin HJ, Park H, Yoo KT, Yuan XZ, Kim KS, **Jung SY.** (2012) Functional roles of mannose-binding protein in the adhesion, cytotoxicity and phagocytosis of *Acanthamoeba castellanii.* *Experimental Parasitology.* 132(2) : 287-292.
- 48) **Jung SY,** Jin C, Kim SY, Song HO, Park H (2012) Simple and efficient model systems of screening anti-*Toxoplasma* drugs in vitro. *Expert Opinion on Drug Discovery.* 7(3) : 195-205.
- 49) **Jung SY.** (2012) Large cohort association of single nucleotide polymorphism of PLA2G4A gene with white blood cell counts in Korean population. *Journal of Experimental & Biomedical Sciences.* 18(1) : 71-75.
- 50) **Jung SY.** (2012) Effective diagnosis of *Acanthamoeba* on cellular and molecular basis. *Journal of the Korea Entertainment Industry Association.* 6(3) : 200-203.
- 51) Matin A, **Jung SY** (2011) Interaction of *Escherichia coli* K1 and K5 with *Acanthamoeba castellanii* trophozoites and cysts. *Korean Journal of Parasitology.* 49(4) : 349-356.

- 52) Liao S, Liu Y, Zheng B, Cho PY, Song HO, Lee YS, **Jung SY**, Park H. (2011) Expression of exogenous human hepatic nuclear factor-1a by a lentiviral vector and its interactions with *Plasmodium falciparum* subtilisin-like protease 2. *Korean Journal of Parasitology*. 49(4) : 431-436.
- 53) Lee YJ, Park CE, Kim JH, Sohn HJ, Lee J, **Jung SY**, Shin HJ. (2011) *Naegleria fowleri* lysate induces strong cytopathic effects and pro-inflammatory cytokine release in rat microglial cells. *Korean Journal of Parasitology*. 49(3) : 285-290.
- 54) Lee YJ, Kim JH, Sohn HJ, Lee J, **Jung SY**, Chwae YJ, Kim K, Park S, Shin HJ. (2011) Effects of immunization with the rNfa1 protein on experimental *Naegleria fowleri*-PAM mice. *Parasite Immunology*. 33(7) : 382-389.
- 55) Siddiqui R, Malik H, Sagheer M, **Jung SY**, Khan NA.. (2011) The type III secretion system is involved in *Escherichia coli* K1 interactions with *Acanthamoeba*. *Experimental Parasitology*. 128(4) : 409-413.
- 56) Matin A, **Jung SY**. (2011) Phospholipase activities in clinical and environmental isolates of *Acanthamoeba*. *Korean Journal of Parasitology*. 49(1) : 1-8.
- 57) Mortazavi PN, Keisary E, Loh LN, **Jung SY**, Khan NA. (2011) Possible roles of phospholipase A2 in the biological activities of *Acanthamoeba castellanii* (T4 Genotype). *Protist*. 162(1) : 168-176.
- 58) **Jung SY**. (2011) Free living amoeba-bacteria interactions: Analysis of *Escherichia coli* interactions with nonpathogenic or pathogenic free living amoeba. *Journal of Experimental & Biomedical Sciences*. 17(1) : 7-12.
- 59) **Jung SY**. (2011) Understanding of interactions between *Acanthamoeba* and *Escherichia coli* on cell-based system. *Journal of Experimental & Biomedical Sciences*. 17(3) : 173-176.
- 60) Kim SK, **Jung SY**. (2011) Serodiagnosis of malaria in Wondeuk-eup and analysis of blood cells. *Journal of Namseoul University*. 17(1) : 349-358.
- 61) Liao S, Liu Y, **Jung SY**, Cho PY, Zheng B, Park H. (2010) Transcriptional activity of *Plasmodium* subtilisin-like protease 2 (*Pf-Sub2*) 5' untranslated regions and its interaction with hepatocyte growth factor. *Korean Journal of Parasitology*. 48(4) : 291-295.
- 62) **Jung SY**, Choi YY, Cho PY, Soh BY, Zheng B, Kim SY, Park KI, Park H. (2010) Confocal microscopic findings of cysteine protease calpain in *Plasmodium falciparum*. *Experimental Parasitology*. 124(3) : 341-345.
- 63) **Jung SY**. (2010) Comparative analysis on the cytotoxicity of *Naegleria fowleri* and *N. gruberi* to macrophages by the addition of saccharides. *Journal of Experimental & Biomedical Sciences*. 16(4) : 221-227.
- 64) **Jung SY**. (2010) Understanding of *Acanthamoeba* pathogenesis. *Journal of Namseoul University*. 16(1) : 193-205.
- 65) Park JH, Choi HJ, **Jung SY**. (2010) Rapid serodiagnosis of *Clonorchis sinensis* and analysis of its patients' sera and blood cells. *Journal of Namseoul University*. 16(2) : 1-12.
- 66) Yang X, Du L, Tang X, **Jung SY**, Zheng B, Soh BY, Kim SY, Gu Q, Park H. (2009) Brevicompanine E reduces lipopolysaccharide- induced production of proinflammatory cytokines and enzymes in microglia by inhibiting activation of activator protein-1 and nuclear factor-kB. *Journal of Medical Neuroimmunology*. 216(1) : 32-38.
- 67) Tang XL, Yang XY, Jung HJ, Kim SY, **Jung SY**, Choi DY, Park WC, Park H. (2009) Asiatic acid induces colon cancer cell growth inhibition and apoptosis through mitochondrial death cascade. *Biological and Pharmaceutical Bulletin*. 32(8) : 1399-1405.
- 68) **Jung SY**, Zheng B, Choi YY, Soh BY, Kim SY, Park KI, Park H. (2009) Antimalarial effect of N-acetyl-L-Leucyl-L-leucyl-L-norleucinal by the inhibition of *Plasmodium falciparum* calpain. *Archives of Pharmacal Research*. 32(6) : 899-906.
- 69) **Jung SY**, Kim JH, Song KJ, Lee YJ, Kwon MH, Kim K, Park S, Im KI, Shin HJ. (2009) Gene silencing of *nfa1* affects the in vitro cytotoxicity of *Naegleria fowleri* in murine macrophages. *Molecular and Biochemical Parasitology*. 165(1) : 87-93.
- 70) Jiang JH, **Jung SY**, Kim YC, Shin SR, Yu ST, Park H (2009) Antimalarial effects of *Areca catechu* L. *Korean Journal of Oriental Physiology & Pathology*. 23(2) : 494-498.
- 71) Kim JH, **Jung SY**, Lee YJ, Song KJ, Kwon D, Kim K, Park S, Im KI, Shin HJ. (2008) Effect of therapeutic chemical agents in vitro and on experimental meningoencephalitis due to *Naegleria fowleri*. *Antimicrobial Agents and Chemotherapy*. 52(11) : 4010-4016.
- 72) **Jung SY**, S Alsam, KS Kim, NA Khan. (2008) Pathogen-pathogen interactions: a comparative study of *Escherichia coli* interactions with the clinical and environmental isolates of *Acanthamoeba*. *World Journal of Microbiology and Biotechnology*. 24(10) : 2339-2348.
- 73) Alsam S, **Jeong SR**, Dudley R, Khan NA. (2008) Role of human tear fluid in *Acanthamoeba* interactions with human corneal epithelial cells. *Journal of Medical Microbiology*. 298(3) : 329-336.
- 74) **Jung SY**, Kim JH, Lee YJ, Song KJ, Kim K, Park S, Im KI, Shin HJ. (2008) *Naegleria fowleri*: *nfa1* gene knock-down by double-stranded RNAs. *Experimental Parasitology*. 118(2) : 208-213.

- 75) Lee YJ, Kim JH, **Jeong SR**, Song KJ, Kim K, Park S, Park MS, Shin HJ. (2007) Production of Nfa1-specific monoclonal antibodies that influence the in vitro cytotoxicity of *Naegleria fowleri* trophozoites on microglial cells. *Parasitology Research*. 101(5) : 1191-1196.
- 76) Matin A, Siddiqui R, **Jung SY**, Kim KS, Stins M, Khan NA. (2007) *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells in vitro. *Journal of Medical Microbiology*. 56(8) : 1110-1105.
- 77) **Jung SY**, Matin A, Kim KS, Khan NA. (2007) The capsule plays an important role in *Escherichia coli* K1 interactions with *Acanthamoeba*. *International Journal for Parasitology*. 37(3) : 417-423.
- 78) Matin A, **Jeong SR**, Stins M, Khan NA. (2007) Effects of human serum on *Balamuthia mandrillaris* interactions with human brain microvascular endothelial cells. *Journal of Medical Microbiology*. 56(1) : 30-35.
- 79) Matin A, **Jeong SR**, Faull J, Rivas AO, Khan NA. (2006) Evaluation of prokaryotic and eukaryotic cells as food source for *Balamuthia mandrillaris*. *Archives of Microbiology*. 186(4) : 261-271.
- 80) Alsam S, **Jeong SR**, Sissons J, Dudley R, Kim KS, Khan NA. (2006) *Escherichia coli* interactions with *Acanthamoeba*: a symbiosis with environmental and clinical implications. *Journal of Medical Microbiology*. 55(6) : 689-694.
- 81) Song KJ, **Jeong SR**, Park S, Kim K, Kwon MH, Im KI, Pak JH, Shin HJ. (2006) *Naegleria fowleri*: functional expression of the Nfa1 protein in transfected *Naegleria gruberi* by promoter modification. *Experimental Parasitology*. 112(2) : 115-120.
- 82) Oh YH, **Jeong SR**, Kim JH, Song KJ, Kim K, Park S, Sohn S, Shin HJ. (2005) Cytopathic changes and pro-inflammatory cytokines induced by *Naegleria fowleri* trophozoites in rat microglial cells and protective effects of an anti-Nfa1 antibody. *Parasite Immunology*. 27(12) : 453-549.
- 83) Kang SY, Song KJ, **Jeong SR**, Kim JH, Park S, Kim K, Kwon MH, Shin HJ. (2005) Role of the Nfa1 protein in pathogenic *Naegleria fowleri* cocultured with CHO target cells. *Clinical and Diagnostic Laboratory Immunology*. 12(7) : 873-876.
- 84) **Jeong SR**, Lee SC, Song KJ, Park S, Kim K, Kwon MH, Im KI, Shin HJ. (2005) Expression of the *nfa1* gene cloned from pathogenic *Naegleria fowleri* in nonpathogenic *N. gruberi* enhances cytotoxicity against CHO target cells in vitro. *Infection and Immunity*. 73(7) : 4098-4105.
- 85) **Jeong SR**, Cho MS, Park S, Kim KH, Song KJ, Im KI, Shin HJ. (2004) Cloning and characterization of an immunoreactive gene encoding a calcium-binding protein from *Naegleria fowleri*. *Molecular and Biochemical Parasitology*. 137(1) : 169-173.
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