

Yuk Pheel Park

Personal Information

- 1) Name: Yuk Pheel Park
- 3) Gender: Female
- 4) Marital status: Married
- 5) Citizenship: Republic of Korea

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Academic Education

(1) Sep. 2002 – Feb. 2007: (Ph.D.) Department of Biology, Chungnam National University, Korea.

① Laboratory of Dr. Sang-Gi Paik (Co-supervisor), Department of Biology, Chungnam National University

② Dr. Hee Gu Lee (Co-supervisor), Stem Cell Research Center, KRIBB.

Thesis: Mac-2 Binding Protein as a Prognostic Marker in Gastric Cancer

(2) Mar. 1999 – Feb. 2001: (M.S.) Department of Biology, Chungnam National University, Korea. Laboratory of Dr. Sang-Gi Paik (Supervisor), Department of Biology, Chungnam National University

Thesis: The Role of Nitric Oxide in Activation-induced Cell Death of T lymphocytes

(3) Mar. 1995 – Feb. 1999: (B.S.) Department of Biology, Chungnam National University, Korea. Laboratory of Dr. Sang-Gi Paik (Supervisor), Department of Biology, Chungnam National University

Thesis: The Role of Nitric Oxide in Cell Death of Mouse Macrophage, RAW264.7.

Professional Careers

- Aug. 2015-current: Postdoctoral associate in Dr. Edward Chan's Lab, UF Health Science Center Department of Oral Biology, University of Florida, Gainesville, FL, USA.
- Feb. 2008 – Apr. 2011: Visiting fellow in Receptor Biology Section, NIAID, NIH, USA.
- Feb. 2002 – Sep. 2007: Korea Research Institute of Bioscience and Biotechnology (KRIBB), Korea.
 - Postdoctoral fellow, Laboratory of Dr. Hee Gu Lee, Stem cell Research Center, KRIBB, Korea (Mar. 2007 – Sep. 2007).

- Research Student, Laboratory of Dr. Hee Gu Lee, Cellomics Research Center, KRIBB, Korea (Sep. 2002 – Feb. 2007).
- Graduate Research Assistant, Laboratory of Dr. Hee Gu Lee, Department of Cell Biology, KRIBB, Korea (Feb. 2002 – Aug. 2002).
- Feb. 2001-Oct. 2001: Post-master in Antibody Engineering Laboratory, KRIBB, Korea
- Mar. 1999-Aug. 2000: Research and Teaching assistant (M.S course), Department of Biology, Chungnam National University, Korea

Research Interests

- Cancer Biology
 - (1) Investigation of molecular and cellular mechanisms in invasive tumors
 - (2) Apoptosis
- Molecular Biology
 - (1) Epigenetics
 - (2) Transcription and translation
 - (3) Signal transduction pathway
- Cellular Immunology
 - (1) Receptor gene expression and function of immune cells
 - (2) Interaction of tumor and immune cells

Experimental Experiences

- Cell culture (including human primary cell culture)
 - (1) Permanent cell line establishment
- Gene Delivery
 - (1) Calcium mediated transfection
 - (2) Lipofectamine mediated transfection
 - (3) Electroporation (Gene Pulser™, Bio-Rad)
 - (4) Nucleofection (Nucleofector™, Amaxa)
- Microarray analysis
- Antigen expression and purification
- Immunoprecipitation
- Basic molecular biology work: Southern blot, Northern blot, Western blot, Quantitative realtime PCR, Gene cloning, Transformation, EMSA, CAT assay etc.
- Telomerase related experiments

- (1) TRAP (Telomere Repeat Amplification Protocol) assay
- (2) TRF (Terminal Restriction Fragment length) assay
- ELISA
- Monoclonal antibody production and characterization
- FACS staining and analysis
- ChIP assay (Chromatin Immunoprecipitation assay)
- Imaging (confocal staining and analysis)

Publications

- **Yuk-Pheel Park**, Seung-Chul Choi, Patricia Kiesler, Francisco Borrego, Jennifer Weck, Konrad Krzweski, John E. Coligan (2011). Cytokine Regulation of DAP10 Protein Synthesis Regulates NKG2D/DAP10 Surface Expression. *Blood* 118(11): 3019-3027.
- **Yuk Pheel Park**, Jong-Tae Kim, Young Yang, Jong Seok Lim, Do-Young Yoon, Jong Wan Kim, Hee Gu Lee (2008). Role of STAT3 as a negative regulator in Mac-2 binding protein expression. *Korean Journal of Laboratory Medicine* 28(3):230-238.
- **Yuk Pheel Park**, Seung-Chul Choi, Bo-Yeon Kim, Jong-Tae Kim, Eun Young Song, Seong Ho Kang, Do-Young Yoon, Sang-Gi Paik, Kwang Dong Kim, Jong Wan Kim, Hee Gu Lee (2008). Induction of Mac-2BP by nerve growth factor is regulated by the PI3K/Akt/NF-kappaB-dependent pathway in the HEK293 cell line. *BMB Report.* 30;41(11):784-789.
- **Yuk Pheel Park**, Seung-Chul Choi, Eun Young Song, Jae Wha Kim, Mi-Young Cho, Do-Young Yoon, Hee Gu Lee (2008). Human telomerase reverse transcriptase (hTERT): a target molecule for the treatment of cisplatin-resistant tumors. *Korean Journal of Laboratory Medicine* 28(6):430-7.
- Seung-Chul Choi*, Suk Ran Yoon*, **Yuk Pheel Park**, Eun Young Song, Jae Wha Kim, Woo Ho Kim, Young Yang, Jong-Seok Lim, Hee Gu Lee (2007). Expression of NDRG2 is related to tumor progression and survival of gastric cancer patients through Fas-mediated cell death. *Experimental and Molecular Medicine* 39(6):705-714.
- **Yuk Pheel Park**, Seung-Chul Choi, Joo Heon Kim, Eun Young Song, Jae Wha Kim, Do-Young Yoon, Young Il Yeom, Jong-Seok Lim, Jong Wan Kim, Sang-Gi Paik and Hee Gu Lee. (2007) Up-regulation of Mac-2 binding protein by hTERT in gastric cancer. *International Journal of Cancer* 120(4): 813-820.
- **Yuk Pheel Park**, Seung-Chul Choi, Mi-Young Cho, Eun Young Song, Jae Wha Kim, Sang-Gi Paik, Young Kwon Kim, Jong Wan Kim and Hee Gu Lee. (2006) Modulation of telomerase activity and human telomerase reverse transcriptase expression by caspases and *Bcl-2* family proteins in cisplatin-induced cell death. *Korean Journal of Laboratory Medicine* 26(4): 287-293.
- Hee Jun Cho, Kwang Dong Kim, Hyun Kyung Yoon, Mi-Young Cho, **Yuk Pheel Park**, Jun-Ho Jeon, Eun

Sik Lee, Seok-Soo Byun, Heon Man Lim, Eun Young Song, Jong Seok Lim, Do-Young Yoon, Hee Gu Lee, Yong-Kyung Choe (2006) Upregulation of Bcl-2 is associated with cisplatin-resistance via inhibition of Bax translocation in human bladder cancer cells. *Cancer Letters*. 237; 56-66.

- Young-Kwon Kim, **Yuk Pheel Park** (2006) Analysis of Telomerase Activity by HPV E6/E7 Expression in SW13. *Journal of Experimental & Biomedical Sciences* 12(4); 399-403.
- Jin Koo Kim, Kwang Dong Kim, Eun Sik Lee, Jong-Seok Lim, Hee-Jun Cho, Hyun Kyung Yoon, Mi-Young Cho, Kyoung-Eun Back, **Yuk Pheel Park**, Sang-Gi Paik, Yong-Kyung Choe and Hee Gu Lee (2004) Up-regulation of Bfl-1/A1 via NF-kappaB activation in cisplatin-resistant human bladder cancer cell line. *Cancer Letters* 212; 61-70.
- Hyun Kyung Yoon, Jin Koo Kim, Hee-Jun Cho, Mi-Young Cho, **Yuk Pheel Park**, Kwan Hee You, Jong Wan Kim, Do Young Yoon, Yong-Kyung Choe and Hee Gu Lee (2005) C-Terminal Serine Rich Region of IKK-interacts with Bfl-1, a Homologue of Bcl-2. *The Korean Journal of Laboratory Medicine* 25; 192-198.
- Seung Ju Cho, **Yuk Pheel Park**, Heon Man Lim, Jae Chan Kim, Eun Kyung Yang, Jung Keug Park, Do Young Yoon and Hee Gu Lee (2004) Immortalization of rabbit corneal fibroblasts by overexpression of simian virus 40 large T antigen. *The Korean Journal of Biomedical Laboratory Sciences* 10; 85-92.
- **Yuk Pheel Park**, Sang-Gi Paik and Young Sang Kim (2000) Function of Nitric Oxide in Activation-induced Cell Death of T lymphocytes. *The Korean Journal of Biological Sciences* 4; 381-388.
- Yong-Man Kim, Chang-Bo Ko, **Yuk Pheel Park**, Yung Jin Kim, and Sang-Gi Paik (1999) Octamer Motif Site are Essential for the Expression of interferon and Lipopolysaccharide-induced NO Synthase in RAW264.7 macrophages. *Molecules and Cells* 9; 99-109.

Poster (Domestic)

- **Yuk Pheel Park** , Seung-Chul Choi, Patricia Kiesler, Francisco Borrego, Konrad Krzewski and John E. Coligan. IL-2 and TGF- β counter regulate NKG2D expression by regulating DAP10 expression (2010). *NIH Immunology Interest Group Retreat Abstract ID; 144.*
- **Yuk Pheel Park**, Seung-Chul Choi, Hee-Jun Cho, Mi-Young Cho, Keung-Eun Back, Sang-Gi Paik, Nam-Soon Kim and Hee Gu Lee. Telomerase induced by Bcl-2 to Bak interaction regulates the cisplatin-induced cell death (2005) *The 14th Annual Meeting of Korea Genome Organization Conference E-2*, p159.
- **Yuk Pheel Park**, Seung-Chul Choi, Jong Wan Kim, Do-Young Yoon, Sang-Gi Paik and Hee Gu Lee (2005) Induction of Mac-2 binding protein by telomerase catalytic subunit (hTERT) in gastric cancer. *The 14th Annual Meeting of Korea Genome Organization Conference E-3*, p159.
- **Yuk Pheel Park**, Seung-Ju Cho, Keung-Eun Back, Sang-Gi Paik and Hee Gu Lee. Telomerase induced by

interaction of Bcl-2 to Bak regulates the cisplatin-induced cell death (2004) *The 16th Annual Meeting of Korean Society for Molecular and Cellular Biology* F-30, p236.

- **Yuk Pheel Park**, Young Sang Kim and Sang Gi Paik (2000) The Role of Nitric Oxide in Activation-induced Cell Death of T lymphocytes. *The 12th Annual Meeting of the Korean Society for Molecular and Cellular Biology* B-99, p268.
- **Yuk Pheel Park**, Yong Chan Kim, Mi Ra Chang, Keum Jin Yang, Kyung Yong Sim, Sang-Gi Paik and Young Sang Kim (1999) Effect of Nitric Oxide on the Interaction of Macrophages and T lymphocytes. *The 11th Annual Meeting of the Korean Society for Molecular and Cellular Biology* G-17, p268.
- Youk Hyun Suk, Jeong Heon Yoon, **Yuk Pheel Park**, Chung Hee Sonn, Soo Jin Kim, Young Sang Kim and Sang-Gi Paik (1999) Role of Nitric Oxide in Activated Macrophages. *The 11th Annual Meeting of the Korean Society for Molecular and Cellular Biology* G-16, p267.
- Joo-Young Im, Hyun Suk Youk, Jeong Heon Yoon, **Yuk Pheel Park**, Young Sang Kim and Sang-Gi Paik (1999) NO-induced apoptosis in mouse macrophage cell line RAW264.7. *Annual Meeting of the Zoological Society of Korea*.

Poster (International)

- **Yuk Pheel Park**, Eun Young Song, Suk-Ran Yoon, Young Yang, Jong-Seok Lim, Do-Young Yoon, Hee Gu Lee (2007) Expression of 90k/Mac-2 binding protein mediated by NGF signaling in HEK293 cell line. *ImmunoRio2007 13th International Congress of Immunology*
- **Yuk Pheel Park**, Seung-Chul Choi, Ju-Heon Kim, Jong Wan Kim, Do-Young Yoon, Sang-Gi Paik, Hee Gu Lee (2005) Induction of Mac-2 binding protein by telomerase catalytic subunit (hTERT) in gastric cancer. *The 9th Annual Meeting of International Congress on Amino Acids and Proteins*

References

- **John E. Coligan, Ph.D.**

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