


Curriculum Vitae

Personal Information		
Title	Assistant Professor	
Name	Ye-Ji Bang	
Degree	Ph.D.	
Country	Korea	
Affiliation	Seoul National University, College of Medicine	
E-mail	yeji.bang(at)snu.ac.kr	
		
Educational Background		
2009 - 2014	Ph.D.	College of Agriculture and Life Science, Seoul National University, South Korea - Research Area: Microbiology, Biochemistry
2005 - 2009	B.S.	College of Agriculture and Life Science, Seoul National University, South Korea - Major: Food Science and Biotechnology
Professional Career		
2022 - present	Assistant professor	Department of Biomedical Sciences; Department of Microbiology and Immunology, Seoul National University College of Medicine, South Korea
2020 - 2022	Instructor	Department of Immunology, University of Texas Southwestern Medical Center, USA
2015 - 2020	Postdoctoral fellow	Department of Immunology, University of Texas Southwestern Medical Center; Howard Hughes Medical Institute, USA (Dr. Lora V. Hooper)
2014 - 2015	Postdoctoral fellow	Center for Food Safety and Toxicology, Seoul National University, South Korea (Dr. Sang Ho Choi)
Research Field		
Host-Microbe-Nutrient Interactions; Gut Microbiome; Bacterial Pathogenesis; Mucosal Immunity		
Main Scientific Publications		
<ol style="list-style-type: none"> Ko, D., Sung, D., Kim, T.Y., Choi, G., Bang, Y-J.[#], Choi, S. H.[#] 2023. CarRS two-component system essential for polymyxin B resistance of <i>Vibrio vulnificus</i> responds to multiple host environmental signals. <i>Microbiol. Spectr.</i> 11(4):e00305-23. ([#]co-correspondence) Bang, Y-J., Hu, Z., Li, Y., Gattu, S., Ruhn, K.A., Raj, P., Herz, J., and Hooper, L.V. 2021. Serum amyloid A delivers retinol to intestinal myeloid cells to promote adaptive immunity. <i>Science</i> 373:eabf9232. Highlights <ul style="list-style-type: none"> Immunity 54(11):2447-2449. "sLRP1'in up retinol keeps the gut SAAfe" Science 373, 1319-1321. DOI: 10.1126/science.acx9068 연합뉴스 "백신 면역에 필요한 비타민 A, 장(腸)에서 어떻게 흡수될까" https://www.yna.co.kr/view/AKR20210924124200009 UT Southwestern News "UTSW scientists reveal how vitamin A enters immune cells in the gut" Hu, Z. *, Bang, Y-J. *, Ruhn, K.A., and Hooper, L.V. 2019. Molecular basis of retinol binding by serum amyloid 		

- A during infection. *Proc. Natl. Acad. Sci. USA.* 116(38):19077-19082. (* equal contribution)
4. Gattu, S., **Bang, Y-J.**, Pendse, M., Dende, C., Chara, A. L., Harris, T. A., Wang, Y., Ruhn, K.A., Kuang, Z., Sockanathan, S., and Hooper, L. V. 2019. Epithelial retinoic acid receptor β regulates serum amyloid A expression and vitamin A-dependent intestinal immunity. *Proc. Natl. Acad. Sci. USA.* 116(22):10911-10916.
 5. Lee, Z-W., Kim, B.S., Jang, K.K., **Bang, Y-J.**, Kim, S., Ha, N-C., Jung, Y.H., Lee, H.J., Han, H.J., Kim, J-S., Kim, J., Sahu, P.K., Jeong, L.S., Kim, M.H., and Choi, S.H. 2019. Small-molecule inhibitor of HlyU attenuates virulence of *Vibrio* species. *Scientific Reports.* 9:4346.
 6. Kim, B. S., Jang, S. Y., **Bang, Y-J.**, Hwang, J., Koo, Y., Jang, K. K., Lim, D., Kim, M. H., and Choi, S. H. 2018. QStatin, a selective inhibitor of quorum sensing in *Vibrio* species. *mBio.* 9 (1), e02262-17.
 7. Jo, I., Kim, D., **Bang, Y-J.**, Ahn, J., Choi, S. H., and Ha, N.-C. 2017. The hydrogen peroxide hypersensitivity of OxyR2 in *Vibrio vulnificus* depends on conformational constraints. *J. Biol. Chem.* 292:7223-7232.
 8. **Bang, Y-J.**, Lee, Z.-W., Kim, D., Jo, I.-S., Ha, N.-C., and Choi, S. H. 2016. OxyR2 Functions as a three-state redox switch to tightly regulate production of Prx2, a peroxiredoxin of *Vibrio vulnificus*. *J. Biol. Chem.* 291:16038-16047.
 9. Kim, S. Y.*, **Bang, Y-J.** *, Kim, D., Lim, J. G., Oh, M. H., and Choi, S. H. 2014. Distinct characteristics of OxyR2, a new OxyR-type regulator, ensuring expression of Peroxiredoxin 2 detoxifying low levels of hydrogen peroxide in *Vibrio vulnificus*. *Mol. Microbiol.* 93:992-1009. (*equal contribution)
 10. **Bang, Y-J.***, Oh, M. H.* , and Choi, S. H. 2012. Distinct characteristics of two 2-Cys peroxiredoxins of *Vibrio vulnificus* suggesting differential roles in detoxifying oxidative stress. *J. Biol. Chem.* 287:42516-42524. (* equal contribution)