

Speaker Name: Jae-Ho Cheong, M.D., Ph.D.



► Personal Info

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Research interest: Tumor bioenergetics, Molecular cancer subtyping, precision oncology, Patient-derived cancer models, novel anti-cancer drug development

Personal Statement

As an oncological surgeon-scientist, I was trained in Systems Cancer Biology for studying gastric cancer genomics and translational medicine. Based on more than 15 years of clinical experience in treating gastric cancer patients, now I am developing molecular diagnostics which is clinically usable to identify distinct prognostic and predictive subgroups to particular treatment within the identical TNM stage groups. The overarching goal of my research is to identify potential diagnostic and therapeutic targets and to develop clinically relevant prognostic or predictive markers as well as valid targets for novel therapeutics. To this end, I have been collaborating with a number of researchers in diverse disciplines: cell biology, molecular biology, chemistry, bioinformatics, pathology, and engineering etc. This trans-disciplinary approach utilizes patient-derived resources to accurately model human cancer molecular pathophysiology to bridge the preclinical and the clinic. Currently, we have generated ~900 gastric cancer tissue multi-omics information which will serve a robust platform to achieve the goal of proposed research enterprise. In addition to clinical tumor repository, we have established ~40 molecularly fully characterized and clinically annotated Patient-derived tumor xenograft (PDX) and organoid (PDO) models. Based on these platforms, I orchestrate novel cancer therapeutics development specifically for therapy-refractory and stem-like subtype tumors.

Educational Experience

1995 M.D., Yonsei University
2003 M.S., Yonsei University
2006 Ph.D., Yonsei University

Professional Experience

2006-2009 Post-doc fellow, Odyssey Fellow, UT MD Anderson Cancer Center, US
2012-2016 Vice Director, Office of Medical Science Research Affairs/Industry-University Cooperation Foundation, Yonsei University Health System, Seoul, Korea
2017- Vice Dean, Research Affairs, Yonsei University College of Medicine

Selected Publications (5 maximum)

1. Predictive test for chemotherapy response in resectable gastric cancer: a multi-cohort, retrospective analysis. **Cheong JH***, Yang HK, Kim H, Kim WH, Kim YW, Kook MC, Park YK, Kim HH, Lee HS, Lee KH, Gu MJ, Kim HY, Lee J, Choi SH, Hong S, Kim JW, Choi YY, Hyung WJ, Jang E, Kim H, Huh YM, Noh SH. **Lancet Oncol (IF:36.4)**. 2018 May;19(5):629-638
2. Clinical and genomic landscape of gastric cancer with a mesenchymal phenotype. Oh SC, Sohn BH, **Cheong JH***, Kim SB, Lee JE, Park KC, Lee SH, Park JL, Park YY, Lee HS, Jang HJ, Park ES, Kim SC, Heo J, Chu IS, Jang YJ, Mok YJ, Jung W, Kim BH, Kim A, Cho JY, Lim JY, et al. **Nat Comm (IF: 12.4)**. 2018 May 3;9(1):1777.
3. Selective cytotoxicity of the NAMPT inhibitor FK855 toward gastric cancer cells with markers of the epithelial-mesenchymal transition, due to loss of NAPRT. Jooyoung Lee, Hyosil Kim, Jae Eun Lee, Su-Jin Shin, Sejin Oh, Sungjin Kwon, Hakhyun Kim, Yoon Young Choi, Michael A. White, Soonmyung Paik, **Jae-Ho Cheong*** and Hyun Seok Kim* **Gastroenterology (IF:20.8)** 2018 May
4. Survival of cancer stem-like cells under metabolic stress via CaMK2alpha-mediated upregulation of sarco/endoplasmic reticulum calcium ATPase expression. Ki Cheong Park, Seung Won Kim, Jeong Yong Jeon, A Ra Jo, Hye Ji Choi, Jungmin Kim, Hyun Gyu Lee, Yonjung Kim, Gordon B. Mills, Sung Hoon Noh, Min Goo Lee, Eun Sung Park, and **Jae-Ho Cheong***. **Clin Cancer Res (IF:10.2)**, 2018 Apr 1;24(7):1677-1690.
5. Microsatellite instability and Programmed Cell Death-Ligand 1 Expression in Stage II/III Gastric Cancer: Post Hoc Analysis of the CLASSIC Randomized Controlled study. Choi YY, Kim H, Shin SJ, Kim HY, Lee J, Yang HK, Kim WH, Kim YW, Kook MC, Park YK, Kim HH, Lee HS, Lee KH, Gu MJ, Choi SH, Hong S, Kim JW, Hyung WJ, Noh SH, **Cheong JH***. **Ann Surg (IF:9.2)**. 2018 May 1.