

- **Name:** Chaithanya Chelakkot
 - **Current Position & Affiliation:** Principal Researcher, GenoBio Corp
 - **Country:** Korea
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• **Educational Background:** PhD in Integrative Biosciences and Biotechnology (2017) from Pohang University of Science and Technology (POSTECH). Worked on inflammatory bowel diseases, cancer metastasis and angiogenesis.

• **Professional Experience:** Currently working as principle researcher at GenoBio.Corp. The company focuses on developing companion diagnostic platforms for liquid biopsy. GenoBio has developed a device for selective and precise isolation of circulating tumor cells, GenoCTC. GenoBio is now collaborating with several hospitals in Seoul: Samsung Medical Center, Asan medical center, Yonsei Severance hospital for the analysis of clinical utility and clinical validation of the newly developed device GenoCTC.

• **Professional Organizations:**

• **Main Scientific Publications:**

1. *An immune-Magnetophoretic device for the selective and precise enrichment of circulating tumor cells from whole blood.* Chaithanya Chelakkot, Jiyeon Ryu, Mi Young Kim, Jin-Soo Kim, Dohyeong Kim, Juhyun Hwang, Sung Hoon Park, Seok Bum Ko, Jeong Won Park, Moon Youn Jung, Ryong Nam Kim, Kyoung Song, Yu Jin Kim, Yoon-La Choi, Hun Seok Lee, Young Kee Shin. **Micromachines**, 2020, 11 (6), 560.

2. *Effect of HPV E6/E7 siRNA with chemotherapeutic agents on the regulation of TP53/E2F dynamics for cell fate decision.* Nirmal Rajasekaran, Hun Soon Jung, Soo Hyeon Bae, Sungyoul Hong, Chaithanya Chelakkot, Jong-Sun Choi, Dong-Seok Yim, Yu-Kyoung Oh, Yoon-La Choi, Young Kee Shin. **Neoplasia**, Vol 19 (10), 735-749, Oct 2017.

3. *Intestinal specific deletion of Phospholipase D2 alleviates DSS induced colitis by regulating occludin.* Chaithanya Chelakkot, Jaewang Ghim, Nirmal Rajasekaran, Jong-Sun Choi, Jung-Hwan Kim, Myoung-Ho Jang, Young Kee Shin, Pann-Ghil Suh, Sung Ho Ryu. **Scientific Reports**, Vol 7, 1573, May 2017

4. *Akkermansia muciniphila*-derived extracellular vesicles influence gut permeability through the regulation of tight junctions. **Chaithanya Chelakkot**, Young Woo Choi, Dae-Kyum Kim, Hyun T Park, Jaewang Ghim, Yonghoon Kwon, Jinseong Jeon, Min-Seon Kim, Young-Koo Jee, Yong S Gho, Hae-Sim Park, Yoon-Keun Kim, Sung H Ryu, **Experimental and Molecular Medicine**, Vol 50 (2), Feb 2018

5. *Mechanisms regulating intestinal barrier integrity and its pathological implications*, **Chaithanya Chelakkot**, Jaewang Ghim, Sung Ho Ryu, **Experimental and Molecular Medicine** 50, 103 August 2018

6. *DNA-dependent protein kinase: Epigenetic alteration and the role in genomic stability of cancer*. Vazhappilly Cijo Geroge, Shabbir Ansari, Vipin Shankar Chelakkot, Ayshwarya Lakshmi Chelakkot, **Chaithanya Chelakkot**, Varsha Menon, Wafaa Ramadan, Kannatt Radhakrishnan Ethiraj, Raafat El-Awady, Theodora Mansto, Melina Mitsiogianni, Mihalis I Panayiotidis, Graham Dellaire, H P Vasantha Rupasinghe, **Mutation Research/Review in Mutation Research, (Available Online)**, June 2018

7. *Endothelial deletion of Phospholipase D2 reduces hypoxic response and pathological angiogenesis*, Jaewang Ghim, Jin Sook Moon, Chang Sup Lee, Junyeop Lee, Park young Song, Areum Lee, Jin-Hyeok Jang, Dayae Kim, Jong Hyuk Yoon, Young Jun Koh, **Chaithanya Chelakkot**, Byung Jun Kang, Jung-Min Kim, Kyung Lock Kim, Yong Ryoul Yang, Youngmi Kim, Sun-Hee Kim, Daehee Hwang, Pann-Ghil Suh, Gou Young Koh, Young-Yun Kong, Sung Ho Ryu. **Arteriosclerosis, Thrombosis and Vascular biology** 2014; 34:1697-1703

8. *Accumulating insights in the role of Phospholipase D2 in human diseases*, Jaewang Ghim, **Chaithanya Chelakkot**, Yoe-Sik Bae, Pann-Ghil Suh, and Sung Ho Ryu. **Advances in Biological Regulation**, Vol 61, Page 42-46, May 2016

9. *Phospholipase D2: A major player in pathophysiological diseases*. **Chaithanya Chelakkot**, Jaewang Ghim, JinHyeok Jang, Pann-Ghil Suh, Sung Ho Ryu. **Advances in Medicine and Biology**, Vol 91, Nova Science Publishers, Inc.2015, ISBN: 978-1-63483-797-2.