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# Curriculum Vitae

Subbroto Kumar Saha, Ph.D.

Junior Faculty (Non-Tenure), Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland Baltimore School of Medicine, Baltimore, MD, USA

## Contact Information

Mailing Address: Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland Baltimore School of Medicine

 655 West Baltimore Street, Baltimore, MD 21201, USA

 (410) 413-0532 (Phone)

 Email: ssaha@som.umaryland.edu; subbroto1986@gmail.com

## Education

2004-2009 B.S., Biotechnology and Genetic Engineering, Islamic University, Kushtia, Bangladesh

2009-2011 M.S., Biotechnology and Genetic Engineering, Islamic University, Kushtia, Bangladesh

2013-2017 Ph.D., Animal Biotechnology, Konkuk University, Seoul, Republic of Korea

 Mentor- Ssang-Goo Cho, Ph.D.

 Thesis title- The role of cytokeratin 19 on cancer progression and its underlying signaling mechanism.

## Post Graduate Education and Training

2011.07-2012.02 Research Assistant, Islamic University, Kushtia, Bangladesh

 Mentor- Md Rezuanul Islam, Ph.D.

2012.03-2012.12 Research Assistant, Sejong University, Seoul, Republic of Korea

 Mentor- Ki-Hyun Kim, Ph.D.

2013.01-2013.02 Research Assistant, Konkuk University, Seoul, Republic of Korea;

 Mentor- Ssang-Goo Cho, Ph.D.

2017.09-2018.02 Post-doctoral Fellow, Konkuk University, Seoul, Republic of Korea;

 Mentor- Ssang-Goo Cho, Ph.D.

2020.01-2020.09 Post-doctoral Fellow, Johns Hopkins University SOM, Baltimore, Maryland;

 Mentor- Mostafa Borahay, MD, Ph.D.

2020.10-2023.06 Post-Doctoral employee, University of California Davis SOM, Sacramento, California;

 Mentor- Chengji J. Zhou, Ph.D.

**Academic Appointments**

2018.02-2020.01 Research Assistant Professor, Department of Stem Cell and Regenerative Biotechnology, Konkuk University, Seoul, Republic of Korea

2023.07- Present Junior Faculty (Non-Tenure), Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland Baltimore School of Medicine, Baltimore, Maryland, USA

## Professional Society Memberships

2016-present Member of the Korean Society for Biochemistry and Molecular Biology (KSBMB)

2017-present Member of the Korean Society for Molecular and Cellular Biology (KSMCB)

2020-present Member of the American Society of Gene and Cell Therapy (ASGCT)

2020-present Member of the **American Society for Biochemistry and Molecular Biology (ASBMB)**

## Honors and Awards

2014-2016 Recipient of a Brain Korea 21plus (BK21plus) Fellowship for doctoral (PhD) research at Konkuk University, South Korea.

2016-2017 Recipient of a Scientific Research Center (SRC) Fellowship for doctoral (PhD) research at Konkuk University, South Korea.

2017-2018 Recipient of a University-Industry Cooperation Foundation (UICF) Fellowship for post-doctoral training at Konkuk University, South Korea.

2018-2020 Recipient of a Konkuk University (KU) Research Professorship at Konkuk University, South Korea.

2019 Recipient of Appreciation for an invited talk at 77th KSRM Annual Meeting, Hanyang University, Seoul, South Korea.

**Editorial board**

**2018-present Member of the Editorial Board,** *Experimental and Therapeutic Medicine*

**2018-present Member of the Editorial Board,** *CPQ Medicine Journal*

**2023- Associate Editor,** *Frontiers in Cell and Developmental Biology* **-** Molecular and Cellular Pathology

2019 **Lead Guest Editor,** *Journal of Oncology*

 Special issue title: Molecular Reprogramming of Cancer and Cancer Stem Cells

2020 **Handling Editor**, *Frontiers in Genetics*

2021 **Handling Editor**, *Frontiers in Oncology*

2018-present Member of Reviewing Board, *Cancers*

2018-presentReviewer, *Cancer Medicine*

2018-presentReviewer, *Cells*

2018-presentReviewer, *Cancer Science*

2018-presentReviewer, *International Journal of Biological Markers*

2018-presentReviewer, *Oncology Letters*

2018-presentReviewer, *World Journal of Surgical Oncology*

2018-presentReviewer, *Network Modeling Analysis in Health Informatics and Bioinformatics*

2018-presentReviewer, *Cancer Chemotherapy and Pharmacology*

2018-presentReviewer, *Archives of Microbiology*

2018-presentReviewer, *Viruses*

2018-presentReviewer, *OncoTargets and Therapy*

2018-presentReviewer, *Cancer Management and Research*

2018-presentReviewer, *International Journal of Molecular Sciences*

2018-presentReviewer, *Experimental and Therapeutic Medicine*

2018-presentReviewer, *Frontiers in Genetics*

## Teaching Service

2017 Teaching Assistant

 Multiomics analysis with publicly available cancer data, undergraduate course

 Department of Stem Cell and Regenerative Biotechnology, Konkuk University, Seoul, Republic of Korea

 35 students, 2 contact hours/Week for 1 month.

**List of Mentees**

**Graduate Students**

2016-2019 Kyeongseok Kim, Ph.D. student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2016-2017 Yingfu Yin, Former MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2017-2018 Yeojin Jeong, Former MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2018-2020 Polash Kumar Biswas, MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2018-2020 Tak-Il Jeon, MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2018-2020 Hee Sung Chae, MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2018-2020 Jaekwon Seok, MS student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

**Undergraduate Students**

2015-2017 Dahae Woo, Undergrad student, Dept. of Stem Cell and Regenerative Biotechnology, Konkuk University

2021-2022 Moira Mei McMahon, Undergrad student, Institute for Pediatric Regenerative Medicine, Shriners Hospitals for Children

2022 Renato Reyes, Undergrad student, College of Agricultural and Environmental Sciences, University of California, Davis

2022 Yu Tong, Undergrad student, College of Agricultural and Environmental Sciences, University of California, Davis

**Patents, Inventions and Copyrights**

1. Korean Patent no.: KR1018634330000, Composition for preventing or treating cancer comprising inducer or activator of KRT19.

## Publications

**Peer-Reviewed Journal Articles († Equal contribution; \* Correspondence)** (<https://www.ncbi.nlm.nih.gov/myncbi/subbroto.saha.1/bibliography/public/>)

TOTAL CITATIONS: 3213; h-index: 23, i10-index: 37, based on [Google Scholar](https://scholar.google.com/citations?user=z_8DnloAAAAJ&hl=en)

1. **Saha, S.K.\*,** Haque, M., Islam, D., Rahman, M., Islam, M., Parvin, A., and Rahman, S., 2012. Comparative study between the effect of Momordica charantia (wild and hybrid variety) on hypoglycemic and hypolipidemic activity of alloxan induced type 2 diabetic long-evans rats. *Journal of Diabetes Mellitus* 2(1), 131-137. (Corresponding Author)
2. **Saha, S.K.,** Jo, S.-H., Song, H.-N., Brown, R.J.C., and Kim, K.-H., 2012. Contrasting recovery patterns of 2, 4-dinitrophenylhydrazones (DNPH) derivative of carbonyls between liquid and gas phase standards using HPLC-based analysis. *Atmospheric Environment* 62, 562-565.
3. **Saha, S.K.,** and Kim, K.-H., 2013. Long-term variations of airborne cadmium (Cd) concentrations in major urban areas of Korea between 1991 and 2010. *Aerosol and Air Quality Research* 13(3), 1078–1089.
4. Rahman, S., Kim, K.-H., **Saha, S. K.,** Swaraz, A. M., and Paul, D. K., 2014. Review of remediation techniques for arsenic (As) contamination: A novel approach utilizing bio-organisms. *Journal of Environmental Management* 134, 175–185.
5. Dayem, A. A., Kim, B-W., Gurunathan, S., Choi, H-Y., Yang, G-M., **Saha, S. K.,** Han, D., Han, J., Kim, K., Kim, J-H., and Cho, S-G., 2014. Biologically synthesized silver nanoparticles induce neuronal differentiation of SH-SY5Y cells via modulation of reactive oxygen species, phosphatases, and kinase signaling pathways. *Biotechnology Journal* 9(7), 934-943.
6. Choi, H-Y., **Saha, S. K.,** Kim, K., Kim, S., Yang, G-M., Kim, B-W., Kim, J-H., and Cho, S-G., 2015. G protein-coupled receptors in stem cell maintenance and somatic reprogramming to pluripotent or cancer stem cells. *BMB Reports* 48(2), 68-80.
7. Hossain, M. K., Dayem, A. A., Han, J., **Saha, S. K.,** Yang, G-M., Choi, H-Y., and Cho, S-G., 2016. Recent Advances in Disease Modeling and Drug Discovery for Diabetes Mellitus Using Induced Pluripotent Stem Cells. *International Journal of Molecular Sciences* 17(2), 256.
8. Hossain, M. K., Dayem, A. A., Han, J., Yin, Y.F., Kim, K. S., **Saha, S. K.,** Yang, G-M., Choi, H-Y., and Cho, S-G., 2016. Molecular Mechanisms of the Anti-Obesity and Anti-Diabetic Properties of Flavonoids. *International Journal of Molecular Sciences* 17(4), 569.
9. Dayem, A. A., Choi, H-Y., Yang, G-M., Kim, K. S., **Saha, S. K.,** Kim, J-H., and Cho, S-G., 2016. The potential of nanoparticles in stem cell differentiation and further therapeutic applications. *Biotechnology Journal*, 11 (12), 1550–1560.
10. Dayem, A. A., Choi, H-Y., Yang, G-M., Kim, K. S., **Saha, S. K.,** and Cho, S-G., 2016. The Anti-cancer Effect of Polyphenols against Breast Cancer and Cancer Stem Cells: Molecular Mechanisms. *Nutrients* 8(9), 581.
11. Dayem, A. A., Hossain, M. K., Lee, S., Kim, K. S., **Saha, S. K.,** Yang, G-M., Choi, H-Y., and Cho, S-G., 2017. The role of reactive oxygen species (ROS) in the biological activities of metallic nanoparticles. *International Journal of Molecular Sciences*, 18 (1), 120.
12. **Saha, S. K.,** Choi, H-Y., Kim, B-W., Dayem, A. A., Yang, G-M., Kim, K. S., Yin, Y.F., and Cho, S-G., 2017. KRT19 directly interacts with β-catenin/RAC1 complex to regulate NUMB-dependent NOTCH signaling pathway and breast cancer properties. *Oncogene*, 36 (3), 332-349.
13. Ansari, A. †, Rahman, S. †, **Saha, S. K. †,** Saikot, F. K. †, Deep, A., and Kim, K.-H., 2017. Function of the SIRT3 mitochondrial deacetylase in cellular physiology, cancer, and neurodegenerative disease. *Aging Cell*, 16 (1), 4-16. (Published by the Anatomical Society) (Co-first Author)
14. **Saha, S. K.,** Lee, S. B., Won, J., Choi, H-Y., Kim, K. S., Yang, G-M., Dayem, A. A., and Cho, S-G., 2017. Correlation between Oxidative Stress, Nutrition, and Cancer Progression. *International Journal of Molecular Sciences*, 18 (7), 1544.
15. Rahman, M. S., Hossain, R., Saikot. F. K., Rahman, S. M., **Saha, S. K.,** Hong, J., and Kim, K-H., 2017. Insights into the in vitro germicidal activities of Acalypha indica. *Analytical Science and Technology* 30(1), 26-31.
16. Rahman, M. S., Ahad, A., **Saha, S. K.,** Hong, J., and Kim, K-H., 2017. Antibacterial and phytochemical properties of Aphanamixis polystachya essential oil. *Analytical Science and Technology* 30(3), 113-121.
17. **Saha, S. K.,** Yin, Y.F., Kim, K. S., Yang, G-M., Dayem, A. A., Choi, H-Y., and Cho, S-G., 2017. Valproic acid induces endocytosis-mediated doxorubicin internalization and shows synergistic cytotoxic effects in hepatocellular carcinoma cells. *International Journal of Molecular Sciences*, 18 (5), 1048.
18. **Saha, S. K.,** Kim, K. S., Yang, G-M., Choi, H-Y., and Cho, S-G., 2018. Cytokeratin 19 (KRT19) has a Role in the Reprogramming of Cancer Stem Cell-Like Cells to Less Aggressive and More Drug-Sensitive Cells. *International Journal of Molecular Sciences*, 19 (5), 1423.
19. Hossain, M. K.†, **Saha, S. K. †,** Dayem, A. A., Kim, J-H., Kim, K. S., Yang, G-M., Choi, H-Y., and Cho, S-G., 2018. Bax Inhibitor-1 Acts as an Anti-Influenza Factor by Inhibiting ROS Mediated Cell Death and Augmenting Heme-Oxygenase 1 Expression in Influenza Virus Infected Cells. *International Journal of Molecular Sciences*, 19 (3), 712. (Co-first Author) 5.
20. **Saha, S. K. †,** Jong, Y. †, Cho, S., and Cho, S-G., 2018. Systematic expression alteration analysis of master reprogramming factor, octamer-binding transcription factor 4 (OCT4), in human cancer and their prognostic outcomes. *Scientific Reports*, 8, 14806.
21. **Saha, S. K. †,\*,** Saikot, F. K. †, Rahman, S. †, Jamal, M.A.H.M.†, Rahman, S. M.K. †, Islam, S.M.R.†, Kim, K.-H.†,\*, 2019. Programmable molecular scissors: Applications of a new tool for genome editing in biotech. *Molecular Therapy-Nucleic Acid*, 14, 212-238. (Published by the American Society of Gene & Cell Therapy) (Co-corresponding Author)
22. **Saha, S. K.,** Yin, Y.F., Chae, H. S., and Cho, S-G., 2019. Opposing regulation of cancer properties via KRT19-mediated differential modulation of Wnt/β-catenin/Notch signaling in breast and colon cancers. *Cancers*, 11(1), 99.
23. **Saha, S. K. †,\*,** Islam, S.M.R. †, Abdullah-AL-Wadud, M., Islam, S., Ali, F., and Park, K. S., 2019. Multiomics Analysis Reveals GLS and GLS2 Differentially Modulate the Clinical Outcomes of Cancer. *Journal of Clinical Medicine*, 8(3), 355. (Corresponding Author)
24. **Saha, S. K.,** Kim, K. E., Islam, S.M.R., Cho, S-G., and Gil, M., 2019. Systematic Multiomics Analysis of Alterations in C1QBP mRNA Expression and Relevance for Clinical Outcomes in Cancers. *Journal of Clinical Medicine*, 8(4), 513.
25. Choi, H-Y., Yang, G-M., Dayem, A. A., **Saha, S. K.,** Kim, K. S., Yoo, Y., Hong, K., Kim, J-H., Yee, C., Lee, K-M., and Cho, S-G., 2019. Hydrodynamic shear stress promotes epithelial-mesenchymal transition by downregulating ERK and GSK3β activities. *Breast Cancer Research*, 21(1), 6.
26. **Saha, S. K. †,** Biswas, P.K. †, Gil, M., and Cho, S-G., 2019. High Expression of TTYH3 is Related to Poor Clinical Outcomes in Human Gastric Cancer. *Journal of Clinical Medicine*, 8(11), 1762.
27. Tejwan, N., **Saha, S. K.\*,** and Das, J.\*, 2020. Multifaceted applications of green carbon dots synthesized from renewable sources. *Advances in Colloid and Interface Science*, 275, 102046. (Co-corresponding Author)
28. Rahman, M.A.†, **Saha, S. K.†,** Rahman, M.S., Uddin, M.J., Uddin, M.S., Pang, M.-G., and Rhim, H., 2020. Molecular Insights into Therapeutic Potential of Autophagy Modulation by Natural Products for Cancer Stem Cells. *Frontiers in Cell and Developmental Biology*, 8, 283. (Co-first Author)
29. Rahman, S., Jamal, M.A.H.M., Biswas, P.K., Rahman, S.M., Sharma, S.P., **Saha, S. K.\*,** Hong, S.T.\*, and Islam, M.R.\*, 2020. Arsenic Remediation in Bangladeshi Rice Varieties with Enhance Plant Growth by Unique Arsenic-Resistant Bacterial Isolates. *Geomicrobiology Journal*, 37(2), 130-142. (Co-corresponding Author)
30. **Saha, S. K.,** Choi, H-Y., Yang, G-M., Biswas, P.K., Kim, K. S., Kang, G.H., Gil, M., and Cho, S-G., 2020. GPR50 promotes hepatocellular carcinoma progression via the Notch signaling pathway through direct interaction with ADAM17. *Molecular Therapy-Oncolytics*, 17, 332-349. (Published by the American Society of Gene & Cell Therapy)
31. Kim, K., Gil, M., Dayem, A.A., Choi, S., Kang, G.-H., Yang, G.-M., Cho, S., Jeong, Y., Kim, S.J., Seok, J., Kwak, H.J., **Saha, S.K.,** Kim, A., and Cho, S.-G. 2020. Improved Isolation and Culture of Urine-Derived Stem Cells (USCs) and Enhanced Production of Immune Cells from the USC-Derived Induced Pluripotent Stem Cells. *Journal of Clinical Medicine*, 9(3), 827.
32. Barman, U.D.†, **Saha, S. K.†,** Kader, M.A., Jamal, M.A.H.M., Sharma, S.P., Samad, A., and Rahman, M.S., 2020. Clinicopathological and prognostic significance of GPC3 in human breast cancer and its 3D structure prediction. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 9, 24. (Co-first Author)
33. **Saha, S.K.†,** Kader, M.A.†, Samad, A., Biswas, K.C., Rahman, M.A., Parvez, M.A.K., and Rahman, M.S., 2020. Prognostic and clinico-pathological significance of BIN1 in breast cancer. *Informatics in Medicine Unlocked*, 19, 100327.
34. **Saha, S. K. †,\*,** Islam, S.M.R. †, Kwak, K-S., Rahman, S., and Cho, S-G.\*, 2020. PROM1 and PROM2 Expression Differentially Modulates Clinical Prognosis of Cancer: A Multiomics Analysis. *Cancer Gene Therapy*, 27(3-4), 147-167. (Co-corresponding Author)

 **“*Selected for the best paper of Cancer Gene Therapy 2018-2019.*”**

1. **Saha, S.K.†,** Jeon, T.-I.†, Jang, S.B., Kim, S.J., Lim, K.M., Choi, Y.J., Kim, H.G., Kim, A., and Cho, S-G., 2020. Bioinformatics Approach for Identifying Novel Biomarkers and Their Signaling Pathways Involved in Interstitial Cystitis/Bladder Pain Syndrome with Hunner Lesion. *Journal of Clinical Medicine*, 9(6), 1935.

 “***Featured in several online newspapers.***”

1. Chae, H., Gil, M., **Saha, S.K.,** Kwak, H.J., Park, H.-W., Vellingiri, B., and Cho, S.-G., 2020. Sestrin2 expression has regulatory properties and prognostic value in lung cancer. *Journal of Personalized Medicine*, 10(3), 109.
2. Kwak, H.J., Gil, M., Chae, H.S., Seok, J., Soundrarajan, N., **Saha, S.K.,** Kim, A., Park, K.S., Park, C., Cho, S.-G., 2020. Expression of ATP/GTP Binding Protein 1 Has Prognostic Value for the Clinical Outcomes in Non-Small Cell Lung Carcinoma. *Journal of Personalized Medicine*, 10, 263.
3. Rahman, M.†, Hossain, M.S.†, **Saha, S. K.†,** Rahman, S., Sonne, C., and Kim, K.-H., 2021. Homology modeling and probable active site cavities prediction of uncharacterized arsenate reductase in bacterial spp. *Applied Biochemistry and Biotechnology*, 193, 1-18. (Co-first Author)
4. Seok, J., Gil, M., Dayem, A.A., **Saha, S.K.,** Cho, S.-G. 2021. Multi-Omics Analysis of SOX4, SOX11, and SOX12 Expression and the Associated Pathways in Human Cancers. *Journal of Personalized Medicine* 11, 823.
5. Sabeh, M.E. †, **Saha, S. K. †,** Afrin, S., Islam, M.S., and Borahay, M.A., 2021. Wnt/β-catenin Signaling Pathway in Uterine Leiomyoma: Role in Tumor Biology and Targeting Opportunities. *Molecular and Cellular Biochemistry*, 476, 3513–3536. (Co-first Author)
6. Haque, S. T., **Saha, S. K.,** Haque, M. E., and Biswas, N., 2021. Nanotechnology-based Therapeutic Applications: In Vitro, In Vivo Clinical Studies for Diabetic Wound Healing. *Biomaterials Science*, 9, 7705-7747. (Published by the Royal Society of Chemistry)
7. Sabeh, M.E. †, **Saha, S.K. †,** Afrin, S., Borahay, M.A., 2021. Simvastatin Inhibits Wnt/β-Catenin Pathway in Uterine Leiomyoma. *Endocrinology*, 162 (12), bqab211. (Published by The Endocrine Society) (Co-first Author)
8. Rahman, M., Biswas, P.K., **Saha, S.K.** et al. 2022. Identification of glycophorin C as a prognostic marker for human breast cancer using bioinformatic analysis. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 11, 7.
9. **Saha, S. K. †,\*,** Islam, S.M.R. †, Saha, T., Gil, M., Nkenyereye, L., Kwak, K-S., and Cho, S-G.\*, 2022. Prognostic role of EGR1 in Breast Cancer: A Systematic review. *BMB Reports*, 54 (10) 497-504. (Published by the Korean Society for Biochemistry and Molecular Biology) (Co-corresponding Author)
10. Zhao, T., McMahon, M., Reynolds, K., **Saha, S. K.,** Stokes, A., and Zhou, C., 2022. The role of Lrp6-mediated Wnt/beta-catenin signaling in the cause and intervention of spinal neural tube defects in mice. *Disease Models & Mechanisms*, 15 (6), dmm049517.
11. Gu, R.†, Zhang, S.†, **Saha, S. K.†,** Ji, Y., Reynolds, K., McMahon, M., Sun, B., Islam, M., Trainor, P. A., Chen, YiP., Xu, Y., Chai, Y., Burkart-Waco, D., and Zhou, C. J., 2022. Single-cell transcriptomics and gene-regulatory networks modulated by Wntless in mammalian midline facial formation and clefts. *Development*, 149 (14), dev200533. (Co-first Author)
12. Biswas, P.K., Park, S.R., An, J., Lim, K.M., Dayem, A.A., Song, K., Choi, H.Y., Choi, Y., Park, K.S., Shin, H.J., Kim, A., Gil, M., **Saha, S.K.,** Cho, S.-G. 2023. The Orphan GPR50 Receptor Regulates the Aggressiveness of Breast Cancer Stem-like Cells via Targeting the NF-kB Signaling Pathway. *International Journal of Molecular Sciences*, 24, 2804.
13. Lee, M., Seok, J., **Saha, S. K.,** Cho, S., Jeong, Y., Gil, M., ... & Cho, S. G. 2023. Alterations and Co-Occurrence of C-MYC, N-MYC, and L-MYC Expression are Related to Clinical Outcomes in Various Cancers. *International journal of stem cells*, 16(2), 215-233.
14. Sun, B., Reynolds, K., **Saha, S. K.,** Zhang, S., McMahon, M., and Zhou, C., 2023. Ezh2-dependent methylation in oral epithelia promotes secondary palatogenesis. *Birth Defects Research*. Published online. DOI: https://doi.org/10.1002/bdr2.2216

Under review

1. Sun, B., Reynolds, K., Garland, M., McMahon, M., **Saha, S. K.,** and Zhou, C., 2023. Epigenetic implications in maternal diabetes and metabolic syndrome-associated risk of orofacial clefts. **Birth Defects Research**. (Accepted).
2. Islam, S.M.R.†, **Saha, S. K. †,\*,** El-Sappagh, S., Tariq, F., Das, J., Afzal, M., and Cho, S-G., 2023. Expression of GRINA Correlates with Prognosis in Human Cancers: A Pan-cancer Analysis. BioRxiv. 2021. **Heliyon.** Under review.

**Book Chapters**

1. Ali, E.S., Barua, D., **Saha, S. K.,** Ahmed, M.U., Mishra, S.K., and Mubarak, M.S.\* 2021. Targeting redox signaling and ROS metabolism in cancer treatment. In Handbook of Oxidative Stress and Cancer. Springer-Nature. DOI: 10.1007/978-981-15-4501-6\_119-1
2. Islam, S.M.R. †, **Saha, S. K. †,** Nishat, A., and El-Sappagh, S. 2022. Prognostic Role of CALD1 in Brain Cancer: A Data-driven Review. Chapter 8. CRC Press.

**Abstracts**

1. **Saha, S. K.,** et al., 2016. Interaction between KRT and β-catenin/RAC1 complex makes important role in regulation of NOTCH signaling pathway and breast cancer properties. KSBMB International Conference, At: COEX, Seoul, South Korea. (Poster presentation)
2. **Saha, S. K.,** et al., 2017. Valproic acid instigates caveolae-mediated doxorubicin trafficking and promotes synergistic cytotoxic effects in hepatocellular carcinoma cells. KSMCB International Conference, At: COEX, Seoul, South Korea. (Poster presentation)
3. Islam, M. S., Afrin, S., Brennan, J. T., **Saha, S. K.,** Borahay, M. A., & Segars, J. H. (2020). THE YAP INHIBITOR VERTEPORFIN REGULATES ACTIVIN-A/SMAD SIGNALING AND MECHANOTRANSDUCTION IN UTERINE FIBROID CELLS. Fertility and Sterility, 114(3), e232-e233. (Poster presentation)
4. El Sabeh, M., **Saha, S. K.,** Afrin, S., & Borahay, M. (2021, July). Simvastatin Suppresses Wnt/beta-catenin Pathway in Human Leiomyoma Cells. In REPRODUCTIVE SCIENCES (Vol. 28, No. SUPPL 1, pp. 227A-227A). (Poster presentation)

## Major Invited Speeches

1. **Saha, S. K.,** 2019. Revealing the Prognostic and Clinicopathological Significance of EGR1 by Using Systematic Multiomics Analysis. 77th KSRM Annual Meeting, Hanyang University, Seoul, South Korea.
2. **Saha, S. K.,** 2019. PROM1 and PROM2 Expression Differentially Modulates Clinical Prognosis of Cancer: A Multiomics Analysis. Symposium on Current and Future Trends in Cellular Immunotherapy, Korea University, Seoul, South Korea.