

## ***Curriculum Vitae***

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### **Education**

| Year | Degree (Honors) | Field of Study                   | Institution                            |
|------|-----------------|----------------------------------|----------------------------------------|
| 2014 | Ph.D.           | Medical Sciences                 | Tohoku University, Sendai, Japan       |
| 2005 | M.S.            | Biochemistry & Molecular Biology | University of Dhaka, Dhaka, Bangladesh |
| 2004 | B.Sc. (Honors)  | Biochemistry & Molecular Biology | University of Dhaka, Dhaka, Bangladesh |

### **Postdoctoral Training**

| Year(s)   | Titles                                        | Specialty/Discipline                                                                  | Institution                                  |
|-----------|-----------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|
| 2016-2018 | Postdoctoral Certificate in Advanced Research | Innate immune signaling, immuno-oncology, oncogenic signaling, tumor microenvironment | UT Southwestern Medical Center Dallas, Texas |
| 2014-2016 | Postdoctoral Certificate in Research          | Innate immune signaling, immuno-oncology, oncogenic signaling, tumor microenvironment | UT Southwestern Medical Center Dallas, Texas |

### **Professional Development Training**

| Year(s) | Course or Program, Degree if any | Institution  |
|---------|----------------------------------|--------------|
| 2023    | MicroMasters in Data Science     | UC San Diego |

### **Faculty Academic Appointments**

| Year(s)          | Academic Title      | Department         | Academic Institution           |
|------------------|---------------------|--------------------|--------------------------------|
| 9/2023 - Current | Assistant Professor | Radiation Oncology | UT Southwestern Medical Center |
| 5/2018 - 8/2023  | Instructor          | Radiation Oncology | UT Southwestern Medical Center |

**Other Professional Positions**

| Year(s)     | Position Title             | Institution                                                                 |
|-------------|----------------------------|-----------------------------------------------------------------------------|
| 2014 - 2018 | Postdoctoral Researcher II | Department of pathology, UT Southwestern                                    |
| 2009 - 2014 | Ph.D. Research Scholar     | Institute of Development, Aging and Cancer (IDAC)<br>Tohoku University      |
| 2005 - 2009 | Research Officer           | International Centre for Diarrhoeal Disease Research,<br>Bangladesh (ICDDR) |

**Honors and Awards**

| Year      | Name of Honor/Award                                   | Awarding Organization                  |
|-----------|-------------------------------------------------------|----------------------------------------|
| 2018      | AAI Trainee Abstract Award                            | American Association of Immunologist   |
| 2012      | CIR Travel grant for attending AACR conference at USA | Tohoku University, Japan               |
| 2009-2014 | Monbukagakusho Scholarship for Ph.D. study            | Japan Government, Japan                |
| 2004-2005 | Graduate Scholarship for the best student             | University of Dhaka, Dhaka, Bangladesh |

**Committee Service**

| Year(s)                              | Name of Committee | Institution/Organization                             |
|--------------------------------------|-------------------|------------------------------------------------------|
| <b><u>National/International</u></b> |                   |                                                      |
| Member                               | General Committee | Dhaka University Alumni Association of North America |

**Professional Societies**

| Dates        | Society Name, member                                              |
|--------------|-------------------------------------------------------------------|
| 2011-present | American Association for Cancer Research (AACR)                   |
| 2018-present | American Association of Immunologist (AAI)                        |
| 2009-present | Bangladesh Society for Biochemistry and Molecular Biology (BSBMB) |
| 2005-present | Global Network of Bangladeshi Biotechnologists (GNOBB)            |

**Community Engagement**

| Year(s)        | Role, brief description                                                   | Organization or institution    |
|----------------|---------------------------------------------------------------------------|--------------------------------|
| 2019 - present | Take interview of applicants for UT Southwestern Medical School Admission | UT Southwestern Medical School |

## **Educational Activities**

### **Teaching Activities**

| Year(s)                          | Activity                                                                                                              |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <u>Graduate student trainees</u> |                                                                                                                       |
| 2018-Current                     | Provided training and supervised in designing and conducting research experiments, troubleshooting and data analysis. |
| <u>Postdoctoral trainees</u>     |                                                                                                                       |
| 2018 - Current                   | Provided training and supervised in designing and conducting research experiments, troubleshooting and data analysis. |

### **Mentoring and Advising**

| Date             | Mentee Name            | Mentee Level/<br>Program and<br>Institution | Role                       | Mentee Outcomes,<br>Current Position                    |
|------------------|------------------------|---------------------------------------------|----------------------------|---------------------------------------------------------|
| 6/2018 - 5/2019  | Jayesh Sharma          | Undergraduate<br>Research Fellow            | Guide research<br>activity | Co-authored a<br>publication.<br>Medical Student at TCU |
| 2/2022 - 8/2022  | Caiden Golder          | Undergraduate<br>Research Fellow            | Guide research<br>activity |                                                         |
| 6/2022 - 3/2024  | Taylor-Jade<br>Higgins | Post baccalaureate<br>Student               | Guide research<br>activity |                                                         |
| 1/2024 - 5/2024  | Mihir saha             |                                             |                            |                                                         |
| 6/2024 - 09/2024 | Jemsy Mathew           | Post baccalaureate<br>Student               | Guide research<br>activity |                                                         |
| 6/2025 -09/2025  | Zeenat Alishah         | Master Student at<br>UTD                    | Guide research<br>activity | Master Student at UTD                                   |

## **Editorial Activities**

| Year(s)                | Journal Name                                  |
|------------------------|-----------------------------------------------|
| <u>Editorial Board</u> |                                               |
| 2019 - current         | Journal of Visualized Experiments             |
| 2019 - current         | Jacobs Journal of Radiation Oncology          |
| <u>Ad Hoc Reviewer</u> |                                               |
| 2020 - current         | Nature Communications                         |
| 2018 - current         | Scientific Reports                            |
| 2020 - current         | Frontiers Cellular and Infection Microbiology |
| 2020 - current         | eLife                                         |

## **Grant Review activities**

| Year(s)        | Role, brief description                 | Organization or institution               |
|----------------|-----------------------------------------|-------------------------------------------|
| 2025 - present | Reviewer, Review the grant applications | Medical Research Foundation<br>London, UK |

## **Grant applications submitted and their outcomes**

- Multiple NIH grant applications are currently under review.

## **Bibliography**

### **Peer-Reviewed Publications**

1. **Udden SM**, Baishan Jiang, Kamal Pandey, Cheryl M. Lewis, Sunati Sahoo, Noelle S. Williams, Prasanna G. Alluri. The non-kinase function of CDK6 is a key driver of acquired resistance to CDK4/6 inhibitors in Estrogen Receptor-positive breast cancer. *bioRxiv* 2025.11.11.687883; doi: <https://doi.org/10.1101/2025.11.11.687883>
2. Avisankar Chini, Prarthana Guha, Ashcharya Rishi, Monira Obaid, **Udden SM**, Subhrangsu S Mandal. Discovery and functional characterization of LncRNAs associated with inflammation and macrophage activation. *Methods*. 227:1-16 (2024).
3. **Udden SM**, GuemHee Baek, Kamal Pandey, Chantal Vidal, Yulun Liu, Asal S. Rahimi<sup>1</sup>, D. Nathan Kim, Chika R. Nwachukwu, Ram S. Mani, and Prasanna G. Alluri. Towards precision radiation oncology: endocrine therapy response as a biomarker for personalization of breast radiotherapy. **NPJ Precision Oncology** 7:11 (2023).
4. **Udden SM**, Qian Wang, Sunil Kumar, Venkat S Malladi, Shwu-Yuan Wu, Jose Larios, Ben Park, Shuguang Wei, Anwu Zhou, Bruce Posner, Noelle Williams, Ram Mani, Srinivas Malladi, Ganesh Raj, Reshma Jaggi, James Rae, Daniel Hayes, Max Wicha, Gaorav Gupta, Arul M Chinnaiyan, Cheng-Ming Chiang, Prasanna G Alluri. Targeting ESR1 Mutation-Induced "Transcriptional Addiction" in Breast Cancer with BET Inhibition. **JCI Insight**. 8;7(17):e151851 (2022).
5. Obaid M, **Udden SM**, Alluri PG, Mandal SS. LncRNA HOTAIR regulates glucose transporter Glut1 expression and glucose uptake in macrophages during inflammation; **Scientific Reports**, 11(1):232 (2021).
6. Hussain I, Deb P, Chini A, Obaid M, Bhan A, Ansari KI, Mishra BP, Bobzean SA, **Udden SM**, Alluri PG, Das HH, Perrotti LI, Mandal SS. HOXA5 expression is elevated in breast cancer and is transcriptionally regulated by estradiol; **Frontiers in Genetics**, 11: 592436 (2020).
7. **Udden SM**, Kwak Y, Godfrey V, Khan MAW, Khan S, Loof N, Peng L, Zhu H and Zaki MH. NLRP12 suppresses hepatocellular carcinoma via downregulation of cJun N-terminal kinase activation in the hepatocyte. **eLife**, 2019;8:e40396 (2019).
8. Obaid M, **Udden SM**, Deb P, Shihabedin N, Zaki MH, Mandal SS. LncRNA HOTAIR regulates lipopolysaccharide-induced cytokine expression and inflammatory response in macrophages. **Scientific Reports**, 8(1):15670 (2018).
9. Kamal AHM, Chakrabarty JK, **Udden SM**, Zaki MH, Chowdhury SM. Inflammatory Proteomic Network Analysis of Statin-treated and Lipopolysaccharide-activated Macrophages. **Scientific Reports**, 8(1):164 (2018).
10. **Udden SM**, Peng L, Gan JL, Shelton JM, Malter JS, Hooper LV and Zaki MH. NOD2 suppresses colorectal tumorigenesis via downregulation of the TLR pathways. **Cell Reports**, 19: 2756-2770 (2017).
11. **Udden SM**, Waliullah S., Harris M, Zaki MH. The Ex Vivo Colon Organ Culture and its Use in Antimicrobial Host Defense Studies. **J. Vis. Exp.** 120 (e55347) (2017).
12. **Udden SM**, Morita-Fujimura Y, Satake M, and Ikawa S. c-ABL tyrosine kinase modulates p53-dependent p21 induction and ensuing cell fate decision in response to DNA damage. **Cellular Signaling**, 26: 444-452 (2014).
13. Kamruzzaman M, **Udden SM**, Cameron DE, Calderwood SB, Nair GB, Mekalanos JJ, and Faruque SM. Quorum-regulated biofilms enhance the development of conditionally viable, environmental *Vibrio cholerae*. **Proc. Natl. Acad. Sci. USA**, 107: 1588-1593 (2010).
14. **Udden SM**, Zahid MS, Biswas K, Ahmad QS, Cravioto A., Nair GB. Mekalanos JJ, and Faruque SM Acquisition of classical CTX prophage from *Vibrio cholerae* O141 by El Tor strains

- aided by lytic phages and chitin-induced competence. **Proc. Natl. Acad. Sci. USA**, 105: 11951-11956 (2008).
15. Zahid MS, **Udden SM**, Faruque AS, Calderwood SB, Mekalanos JJ. and Faruque SM. Effect of Phage on the Infectivity of *Vibrio cholerae* and Emergence of Genetic Variants. **Infection Immunity**, 76: 5266-5273 (2008).
  16. Faruque SM, Biswas K, **Udden SM**, Ahmad QS, Sack DA, Nair GB, and Mekalanos JJ. Transmissibility of cholera: In vivo-formed biofilms and their relationship to infectivity and persistence in the environment. **Proc. Natl. Acad. Sci. USA** 103: 6350-6355 (2006).

### Meeting Summaries or Proceedings

- 1 Targeting Breast Cancer-Obesity Axis to Overcome Treatment Resistance\_N Udden, K Pandey, P Scherer, PG Alluri. International Journal of Radiation Oncology, Biology, Physics 123 (1), S235-S236
- 2 An In Situ Tumor Vaccine Against Triple Negative Breast Cancer\_N McCuen, C Vidal, SMN Udden, P Alluri. Clinical Cancer Research 31 (12\_Supplement), PS12-06-PS12-06
- 3 A Precision Oncology Platform to Target CDK4/6 Inhibitor Resistance  
K Pandey, N Udden, PG Alluri  
International Journal of Radiation Oncology, Biology, Physics 120 (2), S45; 2024
- 4 Abstract P4-02-08: Towards Precision Radiation Oncology: Endocrine Therapy Resistance as a Biomarker for Radiation Resistance in ER-Positive Breast Cancer  
SMN Udden, A Rahimi, DWN Kim, P Alluri  
Cancer Research 83 (5\_Supplement), P4-02-08-P4-02-08; 2023
- 5 Targeting Non-Kinase Function of CDK6 to Overcome CDK4/6 Inhibitor Resistance  
PG Alluri, N Udden  
International Journal of Radiation Oncology, Biology, Physics 117 (2), S44; 2023
- 6 Role of ESR1 mutation in recurrence of tumorigenesis after therapeutic radiation  
SMN Udden, PG Alluri  
Cancer Research 82 (12\_Supplement), 797-797; 2022
- 7 CDC20 is a novel therapeutic target in triple-negative breast cancer  
JK Sharma, P Alluri, N Udden  
Cancer Research 80 (16\_Supplement), 6378-6378; 2022
- 8 ESR1 Mutation Status as a Biomarker for Radiation Response in ER-Positive Breast Cancer  
N Udden, Q Wang, PG Alluri  
International Journal of Radiation Oncology, Biology, Physics 108 (3), e35-e36; 2020
- 9 Abstract P1-09-01: ESR1 mutations confer radiation resistance in breast cancer  
N Udden, Q Wang, PG Alluri  
Cancer Research 80 (4\_Supplement), P1-09-01-P1-09-01; 2020
- 10 Abstract P2-06-20: CDC20 is a novel therapeutic target in triple negative breast cancer  
J Sharma, I Raicu, J Nguyen, N Udden, Q Wang, P Alluri  
Cancer Research 79 (4\_Supplement), P2-06-20-P2-06-20; 2019
- 11 The NOD-like receptor NLRP12 plays a critical role in hepatic inflammation and cancer  
H Zaki, SM Udden  
The Journal of Immunology 202 (1\_Supplement), 194.44-194.44; 2019
- 12 NOD2-mediated downregulation of the TLR pathways contributes to protection against colitis and colorectal tumorigenesis. SM Nashir Udden, L Peng, H Zaki  
The Journal of Immunology 200 (1\_Supplement), 169.1-169.1; 2018
- 13 Abstract A52: Tyrosine kinase activity of c-Abl is essential for p53 dependent transactivation of p21Waf1/Cip1. SMN Udden, M Satake, S Ikawa, Cancer Prevention Research 5 (11\_Supplement), A52-A52; 2012