

## **Dr. Sankhadeep Dutta, Ph.D.**

**Senior Scientific Officer, Grade-II**



### **Academic summary:**

- **Senior Scientific Officer**, Grade-II (September, 2018) at the Department of Oncogene Regulation, Chittaranjan National Cancer Institute (CNCI), Kolkata, India.
- **Post-doctoral Fellow** (2015–2018) at the Infections and Cancer Biology Group, International Agency for Research on Cancer (IARC-WHO), Lyon, France.
- **Ph.D. in Zoology** (2015) from University of Calcutta, India. The Ph.D. research was accomplished at the Department of Oncogene Regulation, Chittaranjan National Cancer Institute (CNCI), Kolkata, India.
- **Guest Lecturer** (2007–2008) Department of Zoology, Chandernagore Govt. College, University of Burdwan, West Bengal, India.
- **M.Sc. in Zoology** (2006) with specialization in Molecular Cytogenetics, Cancer Biology & Biotechnology from The University of Burdwan, India.
- **B.Sc. in Zoology** (2004) from The University of Burdwan, India.

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### **Research Interest:**

- Deciphering the role of microRNAs in High-Risk HPV associated Head and Neck Squamous Cell Carcinoma development and their implication in the disease prognosis.
- Identification and functional characterization of epigenetic marks for early prediction of cervical preneoplastic and cancerous stages.
- Evaluation of prevalence and oncogenic potential of novel HPV types.

### **Publications in last 5 years:**

1. **Sankhadeep Dutta**, Alexis Robitaille, François Aubin, Sébastien Fouéré, Lionel Galicier, David Boutboul, Fabiola Luzi, Di Bonito Paola, Massimo Tommasino, Tarik Gheit. Identification and characterization of two novel Gammapapillomavirus genomes in skin of an immunosuppressed Epidermodysplasia Verruciformis patient. **Virus Res.** **2018** Apr 2;249:66-68. Doi: 10.1016/j.virusres.2018.03.003.
2. **Sankhadeep Dutta**, Alexis Robitaille, Magali Olivier, Dana E Rollison, Massimo Tommasino, Tarik Gheit. Genome sequence of a Novel Human gammapapillomavirus isolated from Skin. **Genome Announcements** **2017** Jun 8;5(23). Doi . org/10.1128/genomeA.00439-17.
3. **Sankhadeep Dutta**, Alexis Robitaille, Dana E Rollison, Massimo Tommasino, Tarik Gheit. Complete Genome Sequence of a Novel Human Betapapillomavirus Isolated from a Skin Sample. **Genome Announcements** **2017** Mar 30;5(13). DOI:10.1128/genomeA.01642-16.
4. **Sankhadeep Dutta**, Ratnesh Kumar Singh, Ranajit Kumar Mandal, Susanta Roychowdhury, Partha Basu, Chinmay Kumar Panda. Alteration of Human Papillomavirus Type 16 Genetic and Epigenetic Profiles in Cervical Cancer Patients Is Indicative of Poor Disease Prognosis: A Cohort Analysis. **International Journal of Gynecological Cancer** **2016**; 26(4): 750–757. DOI: 10.1097/IGC.0000000000000679.
5. **Sankhadeep Dutta**, Chandraditya Chakraborty, Ranajit Kumar Mandal, Partha Basu, Jaydip Biswas, Susanta Roychowdhury, Chinmay Kumar Panda. Persistent HPV16/18 infection in Indian women with the A-allele (rs6457617) of HLADQB1 and T-allele (rs16944) of IL-1 $\beta$  - 511 is associated with development of cervical carcinoma. **Cancer Immunology, Immunotherapy** **2015** Jul; 64(7):843-51. DOI: 10.1007/s00262-015-1693-5. Epub 2015 Apr 17.
6. **Sankhadeep Dutta**, Chandraditya Chakraborty, Arup Kumar Dutta, Ranajit Kumar Mandal, Susanta Roychowdhury, Partha Basu, Chinmay Kumar Panda. Physical and methylation status of HPV16 in asymptomatic cervical infections changes with malignant transformation. **Journal of Clinical Pathology** **2015**; 0:1–6. DOI:10.1136/jclinpath-2014-202611.
7. Brancaccio RN, Robitaille A, **Dutta S**, Rollison DE, Tommasino M, Gheit T. Isolation of a Novel Beta-2 Human Papillomavirus from Skin. **Microbiol Resour Announc.** **2019** Feb 28; 8(9). pii: e01628-18. doi: 10.1128/MRA.01628-18. eCollection 2019 Feb.
8. Rosario N. Brancaccioa, Alexis Robitaillea, **Sankhadeep Dutta**, Cyrille Cuenin, Daiga Santare, Girts Skenders, Marcis Leja, Nicole Fischer, Anna R. Giuliano, Dana E. Rollison, Adam Grundhoff, Massimo Tommasino, Tarik Gheit. Generation of a novel next-generation sequencing-based method for the isolation of new human papillomavirus types. **Virology** **2018**, July; 520: 1-10. doi.org/10.1016/j.virol.2018.04.017
9. Chakraborty C, Mitra S, Roychowdhury A, Samadder S, **Dutta S**, Roy A, Das P, Mandal RK, Sharp TV, Roychowdhury S, Panda CK. Deregulation of LIMD1-VHL-HIF-1 $\alpha$ -VEGF pathway is associated with different stages of cervical cancer. **Biochem J.** **2018** May 31;475(10):1793-1806. doi: 10.1042/BCJ20170649.
10. Latsuzbaia A, Arbyn M, **Dutta S**, Fischer M, Gheit T, Tapp J, Tommasino M, Weyers S, Mossong J. Complete Genome Sequence of a Novel Human Gammapapillomavirus

Isolated from a Cervical Swab in Luxembourg. **Genome Announc.** **2018** Mar 15;6(11). Doi: 10.1128/genomeA.00114-18.

11. Tarik Gheit, **Sankhadeep Dutta**, Javier Oliver, Alexis Robitaille, ShalakaHampras, Jean-Damien Combes, Sandrine McKay-Chopin, Florence Le Calvez-Kelm, Neil Fenske, Basil Cherpelis, Anna R. Giuliano, Silvia Franceschi, James McKay, Dana E. Rollison, Massimo Tommasino: Isolation and characterization of a novel putative human polyomavirus. **Virology** **06/2017**; 506:45-54., DOI:10.1016/j.virol.2017.03.007.
12. Rosario Brancaccio, Alexis Robitaille, **Sankhadeep Dutta**, Dana E. Rollison, Nicole Fischer, Adam Grundhoff, Massimo Tommasino, Tarik Gheit. Complete Genome Sequence of a Novel Human Gammmapapillomavirus Isolated from Skin. Genome Announcements. **Genome Announc.** **2017** Aug 24;5(34). pii: e00833-17. DOI: 10.1128/genomeA.00833-17.
13. Chandraditya Chakraborty, **Sankhadeep Dutta**, Nupur Mukherjee, SudipSamadder, AnirbanRoychowdhury, Anup Roy, Ranajit Kumar Mondal, Partha Basu, SusantaRoychoudhury, Chinmay Kumar Panda. Inactivation of PTCH1 is associated with the development of CACX: Clinical and prognostic implication. **Tumor Biology** **2015**; Oct 21. DOI: 10.1007/s13277-014-2707-1.
14. Partha Basu, Srabani Mittal, Dipanwita Banerjee, Priyanka Singh, Chinmay Panda, **Sankhadeep Dutta**, Ranajit Mandal, Pradip Das, Jaydip Biswas, Richard Muwonge, Rengaswamy Sankaranarayanan. Diagnostic accuracy of VIA and HPV detection as primary and sequential screening tests in a Cervical Cancer Screening Demonstration Project in India. **International Journal of Cancer** **2015**; Aug 15;137(4):859-67. DOI: 10.1002/ijc.29458.

**Ongoing Extramural Projects:**

Principal Investigator / Mentor	Project Title	Funding Agency
<b>Dr. Sankhadeep Dutta</b>	Identification of non-invasive microRNA and proteomic biomarkers in plasma for early detection of Head and Neck Squamous Cell Carcinoma in Indian patients	ICMR, Govt. of India
	Evaluation of population prevalence and oncogenic potential of novel HPV type 217, 218, 223, and 225	IARC, WHO, France