

Sankhadeep Dutta, PhD



Affiliation:

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Research highlight

My research primarily focuses on HPV associated cancer, deciphering its molecular mechanism of carcinogenesis for identification of epigenetic marks in early prediction of cervical preneoplastic and cancerous stages; deciphering the role of non-invasive biomarkers in High-Risk HPV associated Head and Neck Squamous Cell Carcinoma development and also evaluation of prevalence and oncogenic potential of novel HPV types.

Education and Professional Experience

- **Senior Scientific Officer, Grade-II** at the Department of Oncogene Regulation, Chittaranjan National Cancer Institute, Kolkata, India. (September, 2018 – Present)
- **Post-doctoral Fellow** at the Infections and Cancer Biology Group, International Agency for Research on Cancer (IARC-WHO), Lyon, France. (September, 2015 – July, 2018)
- **Ph.D. in Zoology** from University of Calcutta, India. The Ph.D. research was accomplished at the Department of Oncogene Regulation, Chittaranjan National Cancer Institute (CNCI), Kolkata, India. (July 2011 – June 2015)
- **Research Assistant** at the Department of Gynecologic Oncology, Chittaranjan National Cancer Institute (CNCI), Kolkata, India. (April, 2008 – June, 2011)
- **Guest Lecturer** Department of Zoology, Chandernagore Govt. College, University of Burdwan, West Bengal, India. (August, 2007 – March, 2008)
- **M.Sc. in Zoology** with specialization in Molecular Cytogenetics, Cancer Biology & Biotechnology from The University of Burdwan, India. (2006)

Ongoing Extramural Projects

| Principal Investigator | Project Title | Funding Agency |
|------------------------|--|----------------------|
| Dr. Sankhadeep Dutta | 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 |
| | Development of lectin nanobiosensor for early detection of urinary bladder cancer by noninvasive approach | ICMR, Govt. of India |

GenBank Submission:

- **Dutta S**, Rollinson DE, Gheit T, Tommasino M. Human papillomavirus isolate MTS1, complete genome. **GenBank Accession no. KY349817.**
- **Dutta S**, Robitaille A, Rollinson DE, Tommasino M, Gheit T. Human papillomavirus isolate MTS2, complete genome. **GenBank Accession no. KY780961.**
- Robitaille A, **Dutta S**, Tommasino M, Gheit T. Human papillomavirus isolate MTS3, complete genome. **GenBank Accession no. MG063749.1**

- Robitaille A, **Dutta S**, Tommasino M, Gheit T. Human papillomavirus isolate MTS4, complete genome. **GenBank Accession no. MG520499.1**
- Gheit T, **Dutta S**, Oliver J, Robitaille A, Hampras S, Combes JD, McKay-Chopin S, Le Calvez-Kelm F, Fenske N, Cherpelis B, Giuliano AR, Franceschi S, McKay J, Rollison DE, Tommasino M. LI polyomavirus isolate LIPyV, complete genome. **GenBank Accession no. KY404016.**

List of Publication for last 5 years

1. **Sankhadeep Dutta**, Alexis Robitaille, François Aubin, SébastienFouéré, 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. **ISSN: 0168-1702; Impact Factor: 2.484**
2. **SankhadeepDutta**, 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. **ISSN: 2169-8287**
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. **ISSN: 2169-8287**
4. **Sankhadeep Dutta**, Ratnesh Kumar Singh, Ranajit Kumar Mandal, SusantaRoychowdhury, 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. **Impact Factor 2.192; ISSN: 1525-1438**
5. **Sankhadeep Dutta**, Chandraditya Chakraborty, Ranajit Kumar Mandal, Partha Basu, Jaydip Biswas, SusantaRoychowdhury, Chinmay Kumar Panda. Persistent HPV16/18 infection in Indian women with the A-allele (rs6457617) of HLADQB1 and T-allele (rs16944) of IL-1 β -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. **Impact Factor 4.225; ISSN: 0340-7004 (print version); ISSN: 1432-0851 (e version)**
6. **Sankhadeep Dutta**, Chandraditya Chakraborty, Arup Kumar Dutta, Ranajit Kumar Mandal, SusantaRoychowdhury, 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. **Impact Factor 2.894; ISSN: 0021-9746 (print); 1472-4146 (web)**
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. **ISSN: 2576-098X**
8. Rosario N. Brancaccioa, Alexis Robitaillea, **Sankhadeep Dutta**, CyrilleCuenin, DaigaSantare, Girts Skenders, MarcisLeja, 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. **Impact Factor 3.374; ISSN: 0042-6822**
9. 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** **2017**; 506:45-54., DOI:10.1016/j.virol.2017.03.007. **Impact Factor 3.374; ISSN: 0042-6822**
10. 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. **Impact Factor 7.36; Online ISSN:1097-0215**