CURRICULUM VITAE

PART I: General Information

**Date Prepared:** 05/04/2013

**Name** Anindya Dutta, M.D., Ph.D.

**Office Address** Dept. of Biochemistry and Molecular Genetics, Jordan 1240

 Mellon Prostate Cancer Research Institute

 University of Virginia School of Medicine

 1300 Jefferson Park Ave, Box 800733

 Charlottesville, VA 22908

 Tel: (434) 924-1227

 Fax: (434) 924-5069

 ad8q@virginia.edu

 Admin. Asst, Nancy Rush: (434) 924-1940

**Citizen** U.S.A.

# Education

 1975-1981 M.B.B.S. (U.S. equivalent: M.D.) Christian Medical College, Vellore, University of Madras, India.

 1983-1989 Ph.D. The Rockefeller University, New York

 Thesis: Regulation of transcription from the Rous sarcoma

 virus LTR.

# Postdoctoral training

 1981-1982 Residency in Medicine, Christian Medical College Hospital, Vellore, India.

 1989-1992 American Cancer Society Postdoctoral Fellow. Cold Spring Harbor

 Laboratory, New York.

 Regulation of G1-S transition by phosphorylation of RPA.

 1992-1993 Residency in Anatomic Pathology. Brigham and Women's

 Hospital, Boston.

# Licensure and Certification

 1985 Certified by Educational Commission of Foreign Medical

 Graduates (ECFMG), Princeton.

# Academic Appointments

 10/1/93 -6/30/99 Assistant Professor in Pathology, Brigham and Women’s Hospital,

 Harvard Medical School

 7/1/99-6/30/03 Associate Professor in Pathology, Brigham and Women’s Hospital,

 Harvard Medical School

 7/1/03- Harry F. Byrd Professor in Biochemistry and Molecular Genetics,

 Professor in Pathology, University of Virginia Medical School,

 9/1/11- Chairman, Dept. of Biochemistry and Molecular Genetics, UVA

**Administrative Appointments**

 7/1/03- Director of Functional Genomics, Mellon Prostate Cancer Research

 Institute, University of Virginia.

 7/1/04- Member, Executive Committee, Biochemistry Graduate Program

 7/1/06- Member, Executive Committee, Cancer Center, UVA; Co-leader of

 Molecular Genetics program of the Cancer Center Support Grant.

 7/1/06 Co-director Genetics and epigenetics program of Cancer Center

 Support Grant, UVA

 2007, ’11, ‘12 Search Committee, Asst. Profs of Biochemistry and Bioinformatics,

 UVA

 2009- Assoc. Director, UVA Medical Scientist Training Program

 2009 Search Committee, Chair of Pediatrics, UVA

 2012 Review Committee, Dept. of Cell Biology, UVA

 2012 Search Committee, Chair of Pathology, UVA

# Hospital Appointments

 10/1/93 – 6/30/03 Staff, Department of Pathology, Brigham and Women’s Hospital

**B. Outside Service Related to Professional Work:**

1997-2005 Scientific Advisory Committee, Ruttenberg Cancer Center, Mount Sinai School of Medicine, New York.

1998-’00 Study Section, Molecular Genetics II, Breast Cancer Research Program, U.S.

‘03, ‘05-‘06 Armed Forces.

1998, 2000 Study Section, Ovarian Cancer III, Ovarian Cancer Research Program, U.S. Armed Forces.

1996, 1998 Ad Hoc member of Study Section for R13 grants, National Cancer Institute.

1999 Member Special emphasis panel, National Cancer Institute

1999 Ad Hoc Reviewer, American Cancer Society.

2000 Ad Hoc Reviewer, Biochemistry Study Section, National Institutes of Health.

2002 Ad Hoc Reviewer, Austrian Science Fund

2002 Organizer and Chair: Pathobiology for basic scientists. “Growth and Development”. April 22. Annual meeting of American Society for Investigative Pathology (ASIP), New Orleans

2002 Program committee for Annual meeting of ASIP 2003 and 2004.

2002-03 Ad Hoc Reviewer, Alliance for Cancer Gene Therapy

2003 Organizer and Chair. Trends in Experimental Pathology Symposium: “Cell cycle”, April 13, Annual meeting of ASIP. San Diego.

2003 Session chair. Cold Spring Harbor meeting on Eukaryotic DNA replication

2003 Organizer, "Factors controlling re-replication ", American Society for Cell Biology (ASCB) annual meeting, 2003

2003 Organizer and Chair, DNA replication symposium, American Society for Biochemistry and Molecular Biology (ASBMB)/IUBMB annual meeting, 2004

2004 Chair. Growth Factors and their regulation. Annual meeting ASIP. Washington DC

2004 Ad Hoc Reviewer, Cancer and Molecular Pathology Study Section, National Institutes of Health.

2004 Reviewer, Section of Cell Growth, NICHD, Sept 23-24

2005 Organizer and Chair, Experimental manipulation of gene expression workshop, Annual meeting ASIP, 2005, San Diego.

2005 Reviewer for Cancer Research U.K.

 ENCODE analysis workshop co-chair for Chromatin and Replication, NHGRI

2006 Organizer and chair: Symposium on S phase and cancer, AACR annual meeting, Washington DC

2007 Reviewer for Wellcome Trust, U.K.

 Reviewer for Cancer Genetics study section, NIH

 Reviewer for European Union Commission’s FP7 program for research

 Session chair, Cell cycle meeting, Salk Institute, San Diego.

2008 Reviewer for the CCSD study section, NIH, for Danish councils for independent research, and for the American Association for Advancement of science on behalf of King Abdulaziz city for science and technology (KACST)

2009 Program Committee, ASBMB annual meeting, New Orleans

2009 Session Chair, Eukaryotic DNA replication, Cold Spring Harbor

2010 Reviewer for Austrian Science Fund

 Reviewer on Molecular Genetics C Study Section, CSRS study section, NIH

 Reviewer for Cancer Research UK

2011- Advisory board, DBT-Wellcome Trust, India

2012 Reviewer for Cancer Research UK

2013 Vice Chair, Gordon Research Conference on “Cell growth and proliferation”

2013 Co-organizer, Cold Spring Harbor meeting on “Eukaryotic DNA replication and

 genome maintenance”

2013 Co-organizer, NCI workshop on “Chromosome Architecture in human cancer”

Professional Societies

American Society for Biochemistry and Molecular Biology

American Society of Microbiology

American Association for the Advancement of Science

American Society for Investigative Pathology

American Association for Cancer Research

American Society for Cell Biology

### C. Editorial Boards

Member: Journal of Biological Chemistry (July 2001-Sept 2006)

 Cancer Biology and Therapy (Associate Editor Jan 2002-)

 Journal of Biochemistry (June 2006-Dec 2009)

 Journal of Molecular Cell Biology (2009-)

 Cancer Research, Senior Editor (Jan 2010-Dec 2011)

Ad Hoc Reviewer: American Journal of Pathology

 Blood

 British Journal of Cancer

 Cancer Cell

 Cancer Research

 Cell

 Cell Biology International

 Current Biology

 EMBO Journal

 Experimental Cell Research

 Gene

 Genes and Development

 Genome Research

 Journal of Cell Biology

 Journal of Cell Science

 Journal of Clinical Investigation

 Journal of Stem Cells

 Molecular and Cellular Biology

 Molecular Biology of the Cell

 Molecular Cell

 Nature

 Nature Cell Biology

 Nature Genetics

 Nature Structural and Molecular Biology

 Nucleic Acids Research

 Oncogene

 Proceedings of the National Academy of Sciences U.S.A.

 Science

# Honors and Awards

 2013 Graduate student invitee, U. California, Irvine

2012 UVA Team Science Award

2012 UVA Millipub award (one paper with > 1000 citations)

 2011 Elected Vice-chair (2013) and Chair (2015) Gordon Research

Conference on “Cell growth and proliferation

2011 Outstanding Achievement Award, Society of American-Asian

Scientists in Cancer Research.

2009 Ranbaxy Research Award in Basic Biomedical Sciences, New Delhi.

 2009 Graduate student invitee, Southern Illinois University

 2007 Elected Fellow, American Association for the Advancement of

Science

 2007 Graduate student invitee, University of Pennsylvania

 2005 Keynote, Forbes Research Symposium, Virginia Commonwealth U.

 2004- Faculty of 1000

2003- Harry F. Byrd Professor, University of Virginia

 1993-1996 Junior Faculty Award, American Cancer Society.

 1994-1998 Research Career Development Award, U.S. Army Breast Cancer

 Research Program.

 1995-1997 Breast Cancer Research Scholar, Massachusetts Dept. of

 Public Health.

1996 Visiting Scholar, Japan Society for the Promotion of Science

1990-1992 Postdoctoral Fellowship, American Cancer Society

1981 Best Outgoing Student, Christian Medical College, Vellore, India

1975 National Merit Scholar, National Science Talent Scholar, India

**Recent Presentations (since 2007) (168 before 2007)**

2007

 New York University Medical School, New York, Jan 16

 Keystone meeting on microRNAs, Keystone, Jan 30

 Burnham Institute, San Diego, Feb 5

 Molecular Medicine Triconference, San Francisco, Mar 1

 Ohio State University, Columbus, Mar 14

 Stanford University, Palo Alto, April 5

 NIH workshop on “MicroRNAs in cellular development”. Annapolis, April 23-24

 ASBMB Annual meeting, Washington DC, April 30

 University of Pennsylvania, Philadelphia, May 7; Graduate Students invitee.

 ENCODE talk, May 18

 Cistrome meeting on Genome tiling arrays, Harvard Medical School, May 31-Jun 1.

 Gordon Research Conference, “Cell Growth and Proliferation”, Maine, June 24-28

 Salk Institute meeting, “Cell Cycle”, San Diego, July 13-17

 University of Nebraska, Omaha, Sept. 13

 Case-Western Reserve University, Cleveland, Oct 29

 Forbeck symposium on microRNAs, Hilton Head, SC, Nov 1-4

 Millennium Pharmaceuticals, Cambridge, Dec 5

2008

 Kyushu University, Fukuoka, Japan, March 24-26

 Moffitt Cancer Center, Tampa, Research Grand Rounds, April 23

 European Institute of Oncology, Milan, June 24

 NCI symposium “Targeting DNA replication and repair pathways in Cancer Therapeutics",

 Bethesda, Sep 3-5

 Forbeck Scholar Retreat on MicroRNAs, Lake Geneva, Sep. 11-13

 AACR symposium on Molecular Diagnostics, Philadelphia, Sep. 22-25

 Human Genome Organization Annual Meeting, Hyderabad, Sep. 27-30

 High Throughput genome-wide screens, Bangalore, Oct 1-2

 ICGEB, New Delhi, Oct 6

 Netherlands Cancer Institute, Amsterdam, Oct 7

 MGH Cancer Center, Harvard, Oct 15

2009

 Keystone Symposium on The Many Faces of Ubiquitin, Jan 11-16

 University of North Carolina, Jan 27

 ACTREC, Mumbai, Feb 9

 Bose Institute, Kolkata, Feb 11

 JNU-Uppsala Conference in Molecular Medicine, New Delhi, Feb 13-14

 University of Sussex, Feb 16

 Keystone Symposium on Genome Instability and DNA repair, Mar 1-6

 University of North Texas, March 26

 University of West Virginia, March 31

 ASBMB annual meeting, DNA replication and repair, New Orleans, April 19

 APS annual meeting, MicroRNAs in muscle physiology, New Orleans, April 22

 Institute Curie, Paris, June 17

 Gordon Research Conference, Maine, July 5-9

 Cold Spring Harbor meeting on DNA replication and repair, Sep 1-5

 Indiana University, Sep 11

 Southern Illinois University, Sep 25

 McGill University, Oct 6

 Harvard School of Public Health, Jack Little symposium, Oct 23-24

 University of Munich, Nov. 2

 National Institute of Immunology, New Delhi, Nov. 5

 CDFD, Hyderabad, Nov 6

 Northwestern University, Nov 24

 Duke University, Dec 9

2010

 University of Hawaii, Jan 6

 UVA Center for Public Health Seminar, Feb 1

 Lineberger symposium, University of North Carolina, April 28-29

 Genentech, May 10

 Jiao-dong University, Shanghai, June 21

 Beijing University, Beijing, June 29

 ICGEB, Trieste, Aug 31

 EMBO Workshop, Interface between the Ubiquitin family and the DNA damage response,

 Sep 1-5

 St. Louis University, Sep. 20

 ASBMB symposium, Tahoe City, Transcriptional Regulation by Chromatin and RNA

 Polymerase II, Oct Sep 30-Oct 4

 Virginia Commonwealth University, Nov 3

 University of Illinois Champaign-Urbana, Nov. 10

 Duke University, Dec 2

2011

 Keystone Symposium, Genomic instability, Jan 30-Feb 4

 Keystone Symposium, DNA replication and recombination, Feb 27-Mar 4

 University of Colorado, Denver, Mar 4

 Gordon conference, Cell Growth and Proliferation, Jun 26-Jul 1

 CNIO, Madrid, Jul 8

 CRG, Barcelona, Jul 18

 DNA tumor virus meeting, Trieste, Jul 19-23

 DNA replication and genome stability, Cold Spring Harbor, Sep 6-10

 U Texas Health Sciences Center, San Antonio, Sep 13

 Wake Forest School of Medicine, Winston-Salem, Oct 13

 International Society of Biophysics annual meeting, Beijing, Sep 30-Oct 3

 UVA Cell biology seminar, Nov 16

 Cancer Institute of New Jersey, Nov 30

 The Molecular Biology Society of Japan annual meeting, Yokohama, Dec 13-16

2012

 Vellore Winter Symposium, Cancer and Stem Cells, Jan 5-7

 IICB, Kolkata, Jan 9

 Max Planck Institute, Munich, Feb 6

 IGIB, New Delhi, Feb 7

 International AT Workshop, New Delhi, Feb 7-11

 University of Cincinnati, Mar 5

 Annual meeting AACR, Chicago, Mar 31- Apr 4

 Annual meeting, British Society for Cell Biology, Warwick, UK, Apr 15-17

 NCCS, Pune, India, Apr 27

 NCI Workshop on Virus and DNA damage, Bethesda, Sep 11, 12

 Keynote Speaker, Pontin-Reptin meeting, Bordeaux, Oct 17-19

 UVA Genome Sciences seminar, Oct 24

 Oklahoma Medical Research Foundation, Nov 8

 U. California, Davis, Dec 6

2013

 U. California, Irvine, Jan 16

 ICESP Molecular Oncology meeting, Sao Paulo, Brazil, Feb 5

 UVA School of Medicine Research Retreat, Feb 9

 U. Indiana, Bloomington, Apr 4

 UVA Center for Genomics Retreat, Apr 29

 NIH, NIGMS, PRAT Fellows Program, May 3

 Mayo Clinic, Rochester, May 10

 Indian Institute Of Science, Bangalore, June 20

**Currently active grants**

**Total costs on all currently active grants: $8,105,260**

**Total costs on expired grants+expired cycles of currently active grants: $6,266.539**

1) NIH R01 CA60499 (Dutta)

P53 and checkpoint pathways in cancer cell proliferation

This project studies checkpoint pathways activated by anomalies of replication initiators.

2) NIH P01 CA104106-06 (Bryce Paschal, Dan Theodorescu)

(Dutta, leader of Project 3)

Project 3: Androgens and MicroRNAs in Prostate Cancer

Identification of the role of microRNAs during prostate cancer progression and in the androgen-driven gene expression program.

3) NIH R01 CA166054 (Dutta)

Effect of anti-S phase agents on human chromosomes

Investigates how anti-S phase agents used in chemotherapy impinge on the cell-cycle apparatus

4) NIH R01 AR053948 (Dutta) No Cost Extension

MicroRNAs in differentiation of muscle

This project studies the role of microRNAs in the induction of cell quiescence during muscle differentiation.

5) NIH R01 GM84465 (Dutta) No Cost Extension

Function of RVB and TIP60 in the DNA damage response

This project will study the role of the TIP60 histone acetyl transferase complex and its associated chaperone, RVB, in the chromatin remodeling changes after DNA damage in mammalian cells

6) NIH P30 CA044579-20 (Michael J. Weber)

Cancer Center Support Grant

Dr. Dutta is a co-leader for the Genetics and Epigenetics Program of the CCSG. This is an administrative position. No support for Dr. Dutta's lab.

7) Fellowships active in the lab (total value of past fellowships in lab: >$1,350,000)

Pankaj Kumar, DOD Prostate Cancer postdoctoral fellowship

Laura Dillon, Ph.D., NIH Cancer Training Grant postdoctoral fellowship

Adam Mueller, NIH MSTP Training grant

Brian Reon, NIH MSTP Training grant

**Past Trainees**

Junjie Chen Professor, M.D. Anderson Medical Center

Ellen Winchester Software Engineer, Broad Institute

Yi-Ling Lin Asst. Professor, University of California Los Angeles

Partha Saha Assoc. Professor, Saha Institute, Kolkata

David Garcia Quintana Assoc. Professor, Autonomous University, Barcelona

Kenichi Yoshida Assoc. Professor, Meiji University

Suman Dhar Professor, J. Nehru University, New Delhi

Chinweike Ukomadu Asst. Professor, BWH, Harvard Medical School

Zophonias Jonsson Asst. Professor, University of Iceland

Sandeep Saxena Asst. Professor, Natl. Instt. Immunology, New Delhi

Takeshi Senga Assoc. Professor, Nagoya University

James Wohlschlegel Asst. Professor, University of California Los Angeles

Uma Sivaprasad Asst. Professor, University of Cincinnati

Yuichi Machida Asst. Professor, Mayo Clinic, Rochester

Christopher M. Taylor Assoc. Professor, LSU Health Sciences, New Orleans

Yong Sun Lee Asst. Professor, University of Texas, Galveston

Clark Chen Asst. Professor, UCSD

Xiaobo Qiu Professor, Beijing Normal University

Wenge Zhu Asst. Professor, George Washington University

Kenta Terai Asst. Professor, U. of Tokyo

Sudhakar Jha Asst. Professor, Cancer Science Inst., NUS, Singapore

Jamie Teer Asst. Member, Moffitt Cancer Center, Tampa

Mignon Keaton Scientist, Metabolon Inc, Durham, NC

Tarek Abbas Asst. Professor, Radiation Oncology, U. of Virginia

Neerja Karnani Investigator, ASTAR Clinical Sciences Instt, Singapore

Jonghoon Park Scientist, LG Life Sciences, Daejon, S. Korea.

Ashish Gupta Asst. Professor, Amity University, New Delhi

Ankit Malhotra Assoc. Computational Scientist, Jackson Genomics Ctr.

# Bibliography

**A. Original Articles in Refereed Journals**

1. Dutta A, Wang L-H, Hanafusa T, Hanafusa H. Partial nucleotide sequence of Rous sarcoma virus-29 provides evidence that the original Rous sarcoma virus was replication defective. J Virol. 1985; 55, 728-735.

2. Dutta A, Majumder H K. Effects of monosaccharides on uptake of Leishmania donovani promastigotes by murine macrophages. Indian Jl Biochem Biophys. 1986; 23, 1-4.

3. Dutta A, Dorai T, Hanafusa H. The putative trans-activator in the MA gag region of Rous sarcoma virus is not required for cell transformation. J Virol. 1988; 62, 4767-4769.

4. Prywes R, Dutta A, Cromlish J A, Roeder R G. Phosphorylation of serum response factor, a factor that binds to the serum response element upstream of the c-fos promoter. Proc Natl Acad Sci USA. 1988; 85, 7206-7210.

5 Dutta A, Stoeckle M Y, Hanafusa H. Serum and v-src increase the level of CCAAT binding factor required for transcription from a retroviral LTR. Genes & Dev. 1990; 4, 243-254.

6. Dutta A, Hamaguchi M, Hanafusa H. Serum independence of transcription from the promoter of an avian retrovirus in v-src transformed cells is a primary, intracellular effect of increased tyrosine phosphorylation. Proc Natl Acad Sci U S A. 1990; 87, 608-612.

7. Dutta A, Stillman B. cdc2 family kinases phosphorylate a human cell DNA replication factor, RPA, and activate DNA replication. EMBO J. 1992; 11, 2189-2199.

8. Dutta A, Ruppert J M, Aster J C, Winchester E. Inhibition of DNA replication factor RPA by p53. Nature. 1993; 365, 79-82. (Accompanied by News and Views piece in Nature)

9. Chen J, Jackson P K, Kirschner M W, and Dutta A. Separate domains of p21 involved in the inhibition of cdk kinase and PCNA. Nature. 1995; 374, 386-388

10. Dutta A, Chandra R, Leiter L M, Lester S. Cyclins as markers of tumor proliferation and angiogenesis: immunocytochemical studies in breast cancer. Proc Natl Acad Sci USA. 1995; 92, 5386-5390.

11. Keshav K F, Chen C, Dutta A. Rpa4, a homolog of the 34 kDa subunit of the replication protein A complex. Mol. Cell. Biol. 1995; 15, 3119-3128.

12. Chen J, Peters R, Saha P, Lee P, Theodoras A, Pagano M, Wagner G, Dutta A. A 39 amino acid fragment of the cell cycle regulator p21 is sufficient to bind PCNA and partially inhibit DNA replication in vivo. Nucleic Acids Research. 1996; 24, 1727-1733.

13. Lin Y-L, Chen C, Keshav K F, Winchester E, Dutta A. Dissection of functional domains of the human DNA replication protein complex Replication Protein A. J. Biol. Chemistry. 1996; 271, 17190-17198.

14. Leiter L M, Chen J, Marathe T, Tanaka M, Dutta A. Loss of transactivation and transrepression function, and not RPA binding, alters growth suppression by p53. Oncogene. 1996; 12, 2661-2668.

15. Henricksen L A, Carter T, Dutta A, Wold M S. Phosphorylation of human replication protein A by the DNA-dependent protein kinase is involved in the modulation of DNA replication. Nucleic Acids Research. 1996; 24, 3107-3112.

16. Chen J, Saha P, Kornbluth S, Dynlacht B, Dutta A. Cyclin binding motifs are essential for the function of p21/CIP1. Mol. Cell. Biol. 1996; 16, 4673-4682.

17. Mashal R D, Lester S, Corless C, Richie J P, Chandra R, Propert K J, Dutta A. Expression of cell-cycle regulated proteins in prostate cancer. Cancer Research. 1996; 56, 4159-4163.

18. Chen J, Chen S, Saha P and Dutta A. p21 disrupts the recruitment of human Fen1 by proliferating cell nuclear antigen into the DNA replication apparatus. Proc. Natl. Acad. Sci. USA. 1996; 93, 11597-11602.

19. Saha P, Eichbaum Q, Silberman E D, Mayer B J, Dutta A. p21/CIP1 and Cdc25A, competition between an inhibitor and an activator of cyclin dependent kinases. Mol. Cell. Biol. 1997; 17, 4338-4345.

20. Quintana DG, Hou ZH, Thome KC, Hendricks M, Saha P, Dutta A. Identification of a novel subunit of the human origin recognition complex with homology to yeast Orc4. J. Biol. Chemistry 1997; 272, 28247-28251.

21. Lin Y L, Shivji M K K, Chen C, Kolodner R, Wood R D, Dutta A. The evolutionarily conserved zinc finger motif in the largest sub-unit of human RPA is required for DNA replication and mismatch repair but not for nucleotide excision repair. J. Biol. Chemistry 1998; 273, 1453-1461.

22. Saha P, Chen J, Thome K C, Lawlis S J, Hou Z H, Hendricks M, Parvin J D, Dutta A. The human CDC6/Cdc18 associates with Orc1 and cyclin-cdk and is selectively eliminated from the nucleus at the onset of S phase. Mol. Cell. Biol. 1998; 18, 2758-2767.

23. Saha P, Thome K C, Yamaguchi R, Hou Z H., Weremowicz S and Dutta A. The human homolog of Saccharomyces cerevisiae CDC45. J. Biol. Chemistry 1998; 273, 18205-18209.

24. Renshaw A A, Loughlin K R, Dutta A. Cyclin A and Mib1 (Ki67) as markers of proliferation in primary renal neoplasms. Modern Pathology. 1998; 10, 963-966.

25. Quintana DG, Thome KC, Hou ZH, Ligon AH, Morton C C and Dutta A. ORC5L, a new member of the human Origin Recognition Complex, is deleted in uterine leiomyomas and malignant myeloid diseases. J. Biol. Chemistry 1998; 273, 27137-27145.

26. Qiu X B, Lin Y L, Thome K C, Pian P, Schlegel B P, Weremowicz S, Parvin J D, Dutta A. An Eukaryotic RuvB-like Protein (RUVBL1) Essential for Growth. J. Biol. Chemistry 1998; 273, 27786-27793.

27. Quade B J, Park J J, Crum C P, Sun D, Dutta A. In vivo cyclin E expression as a marker for early cervical neoplasia. Modern Pathology. 1998; 11, 1238-1246.

28. Pinto S, Quintana D G, Smith P, Mihalik R M, Hou Z -H, Boynton S, Jones C J, Hendricks M, Velinzon K, Wohlschlegel J A, Austin R J, Lane W S, Tully T\* and Dutta A\*. latheo encodes a subunit of the Origin Recognition Complex and disrupts neuronal proliferation and adult olfactory memory when mutant. Neuron. 1999; 23, 45-54. \* Co-corresponding authors.

29. Datta M W, Renshaw A A, Dutta A, Hoffman M A and Loughlin KR. Evaluation of cyclin expression in testicular germ cell tumors: cyclin E correlates with tumor type, advanced clinical stage, and pulmonary metastasis. Modern Pathology. 2000; 13, 667-672

30. Dhar S K and Dutta A. Identification of the human ORC6 homolog. J. Biol. Chemistry. 2000; 275, 34983-34988..

31. Thome K C, Dhar S K, Quintana D G, Delmolino L, Shahsafaei A and Dutta A. Subsets of human ORC subunits are expressed in non-proliferating cells and associate with non-ORC proteins. J. Biol. Chemistry. 2000; 275, 35233-35241.

32. Yamaguchi R and Dutta A. Proteasome inhibitors alter the orderly progression of DNA synthesis in S phase of HeLa cells and lead to re-replication of DNA. Exptl. Cell Research. 2000; 261, 271-283.

33. Wohlschlegel J A, Dwyer B, Dhar S K, Cvetic C, Walter J and Dutta A. Inhibition of eukaryotic DNA replication by geminin binding to Cdt1. Science. 2000; 290, 2309-2312. (Accompanied by Perspectives essay in Science)

34. Takeda D, Wohlschlegel J A, and Dutta A. A bipartite substrate recognition motif for cyclin-dependent kinases. J. Biol. Chemistry. 2001; 276, 1993-1997.

35. Jonsson Z O, Dhar S K, Narlikar G, Auty R, Wagle N, Pellman D, Pratt R E, Kingston R and Dutta A. Rvb1p and Rvb2p are essential components of a chromatin remodeling complex that regulates transcription of over 5% of yeast genes. J. Biol. Chemistry. 2001; 276,16279-16288.

36. Yoshida K, Kuo F, George E L, Sharpe A H and Dutta A. Requirement of CDC45 for postimplantation mouse development. Mol. Cell. Biol. 2001; 21, 4598-4603.

37. Wohlschlegel J A, Dwyer B, Takeda D and Dutta A. A mutational analysis of the Cy motif from p21 reveals sequence degeneracy and specificity for different cyclin-dependent kinases. Mol. Cell. Biol. 2001; 21, 4868-4874.

38. Delmolino L M, Saha P and Dutta A. Multiple mechanisms regulate subcellular localization of human CDC6: NLS, NES and phosphorylation. J.Biol. Chemistry. 2001; 276, 26947-26954.

39. Dhar S K, Delmolino L M and Dutta A. Architecture of the human Origin Recognition Complex. J Biol. Chemistry, 2001; 276, 29067-29071.

40. Dhar S K, Yoshida K, Machida Y, Khaira P, Chaudhuri B, Wohlschlegel J A, Leffak M, Yates J and Dutta A. Replication from oriP of Epstein-Barr Virus requires human ORC and is inhibited by geminin. Cell, 2001; 106, 287-296.

41. Chaudhuri B, Xu H, Todorov I, Dutta A and Yates J L. Human DNA replication initiation factors, ORC and MCM, associate with oriP of Epstein-Barr virus. . Proc Natl Acad Sci U S A. 2001; 98, 10085-10089.

42. Wohlschlegel J A, Dhar SK, Prokhorova TA, Dutta A\* and Walter J\*. Xenopus Mcm10 binds to origins of DNA replication after Mcm2-7 and stimulates binding of Cdc45. Molecular Cell. 2002; 9, 233-240. \* Co-corresponding authors. (F1000)

43 Wohlschlegel J A, Kutok J L , Weng A P and Dutta A. Expression of geminin as a marker of cell proliferation in normal tissues and malignancies. Am. J. Pathology 2002; 161, 267-273.

44. Ukomadu C and Dutta A. Inhibition of cdk2 activating phosphorylation by mevastatin. J. Biol. Chemistry 2003; 278, 4840-4846.

45. Vaziri C, Saxena S, Jeon Y, Lee C, Murata K, Machida Y, Wagle N, Hwang D S and Dutta A. A p53 dependent checkpoint pathway prevents re-replication. Molecular Cell 2003; 11, 997-1008. (Cover Image)

46. Ukomadu C and Dutta A. p21 dependent inhibition of colon cancer cell growth by mevastatin is independent of inhibition of G1 cyclin-dependent kinases. J. Biol. Chem. 2003; 278, 43586

47. Saxena S, Jonsson Z O and Dutta A. Small RNAs with imperfect match to endogenous mRNA repress translation: implications for off-target activity of siRNA in mammalian cells. J. Biol. Chem. 2003; 278, 44312-44319.

48. Yoshida K, Oyaizu N, Dutta A and Inoue I. The destruction box of human Geminin is critical for proliferation and tumor growth in human colon cancer cells. Oncogene. 2004; 23, 58-70.

49. Zhu W, Chen Y and Dutta A. Re-replication by depletion of geminin is seen regardless of p53 status and activates a G2/M checkpoint. Mol. Cell. Biol. 2004; 24, 7140-7150. (Cover Image)

50. Saxena S, Yuan P, Dhar SK, Senga T, Takeda D, Robinson H, Kornbluth SA, Swaminathan K and Dutta A. A dimerized coiled-coil domain and an adjoining part of geminin interact with two sites on Cdt1 for replication inhibition. Molecular Cell, 2004; 15, 245-258.

51. Jónsson Z O, Jha S, Wohlschlegel J A and Dutta A. Rvb1p/Rvb2p recruit Arp5p and assemble a functional Ino80 chromatin remodeling complex. Molecular Cell, 2004; 16, 465-477.

52. ENCODE Project Consortium. The ENCODE (ENCyclopedia Of DNA Elements) Project. Science, 2004;306, 636-640.

53. Lee YS, Kim HK, Chung S, Kim KS, and Dutta A. Depletion of human microRNA miR-125b reveals that it is critical for the proliferation of differentiated cells but not for the down-regulation of putative targets during differentiation. J Biol Chem. 2005; 280, 16635-16641.

54. Jeon Y, Bekiranov S, Karnani N, Kapranov P, Ghosh S, MacAlpine D, Lee C, Hwang DS, Gingeras T and Dutta A. Temporal profile of replication of human chromosomes. Proc. Natl. Acad. Sci. USA. 2005; 102, 6419-6424.

55. Takeda D Y, Parvin J D and Dutta A. Degradation of Cdt1 during S phase is SKP2 independent and is required for efficient progression of mammalian cells through S phase. J. Biol. Chem. 2005; 280, 23416-23423.

56. Machida Y J, Teer J K and Dutta A. Acute reduction of an ORC subunit in human cells reveals a requirement of ORC for CDK2 activation. J. Biol. Chem. 2005; 280, 27624-27630.

57. Takeda D Y, Shibata Y, Parvin J D and Dutta A. Recruitment of ORC or CDC6 is sufficient to create an artificial origin of replication in mammalian cells. Genes & Development. 2005; 19, 2827-36. (Research Highlight in Nature Reviews Genetics and Nature Reviews MCB; F1000) PMC1315390

58. Senga T, Sivaprasad U, Zhu W, Park J H, Arias E E, Walter J C and Dutta A. PCNA is a co-factor for Cdt1 degradation by CUL4/DDB1 mediated N-terminal ubiquitination. J. Biol. Chem. 2006; 281, 6246-52. (F1000)

59. Teer J K, Machida Y J, Labit H, Novac O, Hyrien O, Marheineke K, Zannis-Hadjopoulos M and Dutta A. Proliferating human cells hypomorphic for Orc2 and pre-RC formation have a defect in p53 activation and CDK2 kinase activation. J. Biol. Chem. 2006; 281, 6253-60.

60. Ernkvist M, Aase K, Ukomadu C, Wohlschlegel J, Blackman R, Veitonmaki N, Bratt A, Dutta A and Holmgren L p130-Angiomotin associates with actin and controls endothelial cell shape. FEBS Journal, 2006; 273, 2000-11

61. Zhu W and Dutta A. An ATR, BRCA1 mediated Fanconi Anemia pathway is required for activating the G2/M checkpoint and DNA damage repair upon re-replication. Mol. Cell. Biol. 2006; 26, 4601-11.

62. Kim HK, Lee YS, Sivaprasad U, Malhotra A and Dutta A. Muscle-specific microRNA miR-206 promotes muscle differentiation. J. Cell Biol. 2006; 174, 677-687. (Cover Image and News Highlight in JCB; Research Highlight in Nature, 2006: 443, 4-5; F1000) PMC2064311

63. Machida Y J, Machida Y, Chen Y, Gurtan A, Kupfer G M, D’Andrea A D and Dutta A. UBE2T is the E2 in the Fanconi Anemia Pathway and Undergoes Negative Autoregulation. Molecular Cell, 2006; 23, 589-96.

64. Sivaprasad U, Abbas T and Dutta A. Differential efficacy of HMG CoA reductase inhibitors on the cell cycle of prostate cancer cells. Molecular Cancer Therapeutics, 2006; 5: 2310-6.

65. Machida Y J, Chen Y, Machida Y, Malhotra A, Sarkar S and Dutta A. Targeted Comparative RNAi (TARCOR) Analysis Reveals Differential Requirement of Genes Essential for Cell Proliferation. Mol. Biol. Cell. 2006; 17: 4837–4845.

66. Karnani N, Taylor C M, Malhotra A and Dutta A. Pan-S replication patterns and chromosomal domains defined by genome tiling arrays of ENCODE genomic areas. Genome Research, 2007; 17 : 865-76. (F1000 citation)

67. Machida YJ and Dutta A. The APC/C Inhibitor, Emi1, Is Essential for Prevention of Rereplication. Genes & Development, 2007; 21:184-194. (F1000 citation) PMC1770901

68. Abbas T, Jha S, Sherman NE and Dutta A. Autocatalytic Phosphorylation of CDK2 at the Activating Thr160. Cell Cycle, 2007; 6:843-52. (F1000 citation)

69. Lee YS and Dutta A. The tumor suppressor microRNA *let-7* represses the HMGA2 oncogene. Genes & Development, 2007; 21:1025-30. (Accompanied by a Perspectives essay). PMC1855228

70. ENCODE project consortium. Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project consortium. Nature, 2007; 447: 799-816. (Our group provided and analyzed the DNA replication data for the consortium; F1000 citation.) **[PMC2212820](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2212820" \o "PMC: #2212820" \t "aux)**

71. Zhu W, Ukomadu C, Jha S, Senga T, Dhar SK, Wohlschlegel JA, Nutt LK, Kornbluth S and Dutta A. Mcm10 and And-1/CTF4 recruit DNA polymerase α to chromatin for initiation of DNA replication. . Genes & Development, 2007; 21:2288-99. (F1000 citation)

72. Lin JJ and Dutta A. ATR pathway is the primary pathway for activating G2/M checkpoint induction after re-replication. J. Biol. Chem. 2007; 282:30357-62 (Highlighted as “Research Highlight” in Nature Structural and Molecular Biology, 14:1061)

73. Alpi A, Langevin F, Mosedale G, Machida YJ, Dutta A and Patel KJ. UBE2T, the FA core complex and FANCD2 are recruited independently to chromatin: A basis for the regulation of FANCD2 monoubiquitination. Mol Cell Biol. 2007; 27:8421-30

74. Deng Z, Dheekollu J, Broccoli D, Dutta A and Lieberman PM. The Origin Recognition Complex Localizes to Telomere Repeats and Prevents Telomere-Circle Formation. Current Biology. 2007; 17:1989-95.

75. Teer JK and Dutta A. Human Cdt1 lacking the evolutionarily conserved region that interacts with MCM2-7 is capable of inducing re-replication. J. Biol. Chem. 2008; 283:6817-25.

76. Jha S, Shibata E and Dutta A. Human Rvb1/Tip49 is required for the HAT activity of TIP60/NuA4 and for the downregulation of phosphorylation on H2AX after DNA damage. Mol. Cell. Biol. 2008; 28:2690-700. PMC2293106

77. Lew DJ, Burke DJ and Dutta A. The immortal strand hypothesis: How could it work? Cell, 2008; 133:21-23.

78. Abbas T, Sivaprasad U, Terai K, Amador V, Pagano M and Dutta A. PCNA-dependent regulation of p21 ubiquitylation and degradation via the CRL4-cdt2 ubiquitin ligase complex. Genes & Development, 2008; 22:2496-506. **[PMC2546691](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2546691" \o "PMC: #2546691" \t "aux)**

79. Torreira E, Jha S, López-Blanco JR, Arias-Palomo E, Chacón P, Cañas C, Ayora S, Dutta A and Llorca O. Architecture of the pontin/reptin complex, essential in the assembly of several macromolecular complexes. Structure, 2008: 16:1511-20. **[PMC2577609](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2577609" \o "PMC: #2577609" \t "aux)**

80. Shibata Y, Malhotra A, Bekiranov S and Dutta A. Yeast genome analysis identifies chromosomal translocation, gene conversion events and several sites of Ty element insertion. Nucleic Acids Research, 2009: 37:6454-65. PMC2770650

81.     Lee YS, Shibata Y, Malhotra A and Dutta A. A novel class of small RNAs: tRNA-derived RNA fragments (tRFs).  Genes & Development, 2009; 23:2639-49. PMC2779758

82. Machida YJ, Machida Y, Vashisht A, Wohlschlegel JA and Dutta A. The Deubiquitinating Enzyme BAP1 Regulates Cell Growth via Interaction with HCF-1. J. Biol. Chem., 2009; 284:34179-88. PMC2797188

83.    Terai K, Abbas T, Jazaeri AA and Dutta A. CRL4Cdt2 E3 ubiquitin ligase monoubiquitinates PCNA to promote translesion DNA synthesis.  Molecular Cell, 2010; 37:143-149. PMC2818832

84. Karnani N, Taylor CM, Malhotra A and Dutta A. Genomic study of replication initiation in human chromosomes reveals the influence of transcription regulation and chromatin structure on origin selection. Mol. Biol. Cell. 2010; 21:393-404 PMC2814785

85. Jazaeri AA, Ferriss JS, Bryant JL, Dalton MS, Dutta A. [Evaluation of EVI1 and EVI1s (Delta324) as potential therapeutic targets in ovarian cancer.](http://www.ncbi.nlm.nih.gov/pubmed/20462630) Gynecol Oncol. 2010, 118:189-95

86. Sarkar S, Dey BKand Dutta A. MiR-322/424 and 503 are induced during muscle differentiation and promote cell-cycle quiescence and differentiation by downregulation of Cdc25A. Mol. Biol. Cell. 2010, 21:2138-49. PMC2893979

87. Jha S, Vande Pol S, Banerjee NS, Dutta AB, Chow LT, and Dutta A. Destabilization of TIP60 by human papillomavirus E6 results in attenuation of TIP60 dependent transcriptional regulation and apoptotic pathway. Molecular Cell, 2010, 38:700-11 (F1000 citation) PMC2886028

88. Shibata Y, Malhotra A and Dutta A. Detection of DNA fusion junctions for BCR-ABL translocations by Anchored ChromPET. Genome Med. 2010, 2:70. PMC3092121 (Highly Accessed)

89. Abbas T, Shibata E, Park J, Jha S, Karnani N and Dutta A. CRL4Cdt2 Regulates Cell Proliferation and Histone Gene Expression by Targeting PR-Set7/Set8 for Degradation. Molecular Cell, 2010, 40: 9-21. (Featured Article, F1000 citation, Perspective in Molecular Cell, Research Highlight in Nature Reviews MCB) PMC2966975

90. Lin JJ, Milhollen MA, Smith PG, Narayanan U and Dutta A. NEDD8-targeting drug MLN4924 elicits DNA rereplication by stabilizing Cdt1 in S phase, triggering checkpoint activation, apoptosis, and senescence in cancer cells. Cancer Research, 2010, 70:10310-20. PMC3059213

91. Dey BK, Gagan J and Dutta A. MiR-206 and -486 induce myoblast differentiation by downregulating Pax7. Mol. Cell Biol., 2011, 31:203-14. PMC3019853

92. Sun D, Lee YS, Malhotra A, Kim HK, Matecic M, Evans C, Jensen RV, Moskaluk CA and Dutta A. miR-99 family of microRNAs suppresses the expression of prostate specific antigen and prostate cancer cell proliferation. Cancer Research, 2011; 71:1313-24. PMC3523179

93. Mesner LD, Valsakumar V, Karnani N, Dutta A, Hamlin JL, Bekiranov S. Bubble-chip analysis of human origin distributions demonstrates on a genomic scale significant clustering into zones and significant association with transcription. Genome Res., 2011, 21:377-89. (F1000 citation) PMC3044852

94. Karnani N and Dutta A. The effect of the intra-S-phase checkpoint on origins of replication in human cells. Genes & Development, 2011; 25:621-33. PMC3059835

95. Keaton M and Dutta A. Nuclear Scaffold Attachment Sites within ENCODE Regions Associate with Actively Transcribed Genes, PLOS One, 2011; 6 : e17912. PMC3056778

96. Gagan JR, Dey BK, Layer R, Yan Z and Dutta A. MICRORNA-378 targets the myogenic repressor MyoR during myoblast differentiation, J. Biol. Chem., 2011; 286:19431-8. PMC3103322

97. Shibata E, Abbas T, Huang X, Wohlschlegel JA and Dutta A. Selective ubiquitylation of p21 and Cdt1 by UbcH8 and Ube2G ubiquitin-conjugating enzymes via the CRL4-Cdt2 ubiquitin ligase complex. Mol. Cell Biol., 2011; 31:3136-45 PMC3147600

98. Van Rechem C, Black JC, Abbas TA, Allen A, Rinehart CA, Yuan GC, Dutta A, Whetstine JR. The SKP1 - Cul1 - F-box and Leucine-rich repeat protein 4 (SCF-FbxL4) ubiquitin ligase regulates lysine demethylase 4A (KDM4A)/Jumonji domain-containing 2A (JMJD2A). J Biol Chem. 2011; 286:30462-70. PMC3162406

99. Jazaeri AA, Bryant JL, Park H, Li H, Dahiya N, Stoler MH, Ferriss JS, Dutta A. Molecular requirements for transformation of fallopian tube epithelial cells into serous carcinoma. Neoplasia. 2011; 13:899-911. PMC3201567

100. Shibata Y, Kumar P, Layer R, Willcox S, Gagan JR, Griffith JD, Dutta A. Extrachromosomal MicroDNAs and Chromosomal Microdeletions in Normal Tissues. Science. 2012; 336:82-6 F1000 citation. PMID: 22403181

101. Mueller AC, Sun D, Dutta A. The miR-99 family regulates the DNA damage response through its target SNF2H. Oncogene. 2012; Apr 23. doi: 10.1038/onc.2012.131. [Epub ahead of print]. PMC3407337

102. Dey BK, Gagan JR, Yan Z, Dutta A. MiR-26a is required for skeletal muscle differentiation and regeneration in mice. Genes & Development. 2012; 26:2180-2191. PMC3465739

103. Gagan JR, Dey BK, Layer R, Yan Z and Dutta A. Notch3 and Mef2c Are Mutually Antagonistic via Mkp1 and miR-1/206 in Differentiating Myoblasts. J. Biol. Chem. 2012; 287:40360-70. PMC3504751

104. Gupta A, Jha S, Engel DA, Ornelles DA and Dutta A. Tip60 degradation by adenovirus relieves transcriptional repression of viral transcriptional activator E1A. Oncogene. In press. 2013. 2012 Nov 26. doi: 10.1038/onc.2012.534. [Epub ahead of print]

105. Jha S, Gupta A, Dar A and Dutta A. RVBs are required for assembling a functional TIP60 complex. Mol Cell Biol. 2013, 33:1164-74. PMC3592018

106. Sun D, Layer R, Mueller AC, Cichewicz M, Negishi M, Paschal BM and Dutta A. Regulation of several androgen-induced genes through the repression miR 99a/let-7c/miR 125-b-2 miRNA cluster in prostate cancer cells. Oncogene. 2013. In press.

107. Abbas T, Mueller AC, Shibata E, Keaton M, Rossi M and Dutta A.CRL1-FBXO11 promotes Cdt2 ubiquitylation and degradation and regulates Pr-Set7/Set8-mediated cellular migration. Molecular Cell. 2013. 49:1147-58. PMC3615078

108. Park J, Long DT, Lee KY, Abbas T, Shibata E, Negishi M, Luo Y, Schimenti JC, Gambus A, Walter JC, and Dutta A. The MCM8-9 complex promotes RAD51 recruitment at DNA damage sites to facilitate homologous recombination. Mol Cell Biol. 2013; 33:1632-44. PMC3624244

**B. Reviews, Chapters and editorials**

1. Dutta A, Din S U , Brill S J, Stillman B. Phosphorylation of Replication Protein A: a role for cdc2 kinase in G1-S regulation. in The Cell Cycle, Cold Spring Harbor Symposium of Quantitative Biology. 1991; 56, 315-324.

2. Stillman B, Bell S P, Dutta A, and Marahrens Y. Studies on DNA replication and the cell cycle. in Regulation of the eukaryotic cell cycle, CIBA Foundation, Symposium 170, Wiley Publishers, Chichester. 1992; 147-160.

3. Dutta A. Trans-plication factors. Current Biology. 1993; 3, 709-712.

4. Dutta A and Winchester E. SV40 based in vitro DNA replication assay. in "Cell Cycle: Materials and Methods", ed. Michelle Pagano. Springer-Verlag. Heidelberg. 1995; 175-185.

5. Dutta A and Bell S P. Initiation of DNA replication in eukaryotic cells. Annual Review of Cell and Developmental Biology. 1997; 13, 293-332.

6. Dutta A. Regulation of S phase. in "Cell Cycle Control", ed. Michelle Pagano. Springer-Verlag. Heidelberg. 1998; 35-56.

7. Lin, Y-L and Dutta A. In vitro DNA replication. in “Current Protocols in Cell Biology”, ed. Mary Dasso. John Wiley and Sons. New York. 1998; Chapter 11, Unit 11.5.

8. Dutta A. Origin Recognition Complex and other eukaryotic initiator proteins. in “Experimental Medicine” special issue on DNA replication, ed. Takuya Ohashi and Akio Matsukage. Yodosha Co. Ltd. Tokyo. 1998; 16, 53-60.

9. Quintana D.G. and Dutta A. The metazoan origin recognition complex. Frontiers in Biosciences. 1999; 4, 805-815.

10. Bell S P. and Dutta A. Initiation of DNA replication in eukaryotic cells. Annual Review of Biochemistry. 2002; 71, 333-374.

11. Wohlschlegel J A, Dutta A and Dhar S K. ORC and the initiation of DNA replication. In Eukaryotic DNA Replication for ChemTracts - Biochemistry & Molecular Biology; ed M. L. Depamphilis. 2002; 15, 533-543.

12. Saxena S. and Dutta A. Geminin-Cdt1 balance is critical for genetic stability. In Mutation Research: Fundamental and Molecular Mechanisms of Mutagenesis- Stress Response; ed Nic Denko and Al Fornace, 2005; 569, 111-121.

13. Machida Y J and Dutta A. Cellular checkpoint mechanisms monitoring proper initiation of DNA replication. J. Biological Chemistry, 2005; 280, 6253-6256.

14. Blow J A and Dutta A. Preventing re-replication of chromosomal DNA. Nature Reviews Molecular Cell Biology, 2005; 6, 476-486.

15. Takeda D and Dutta A. DNA replication and progression through S phase. Oncogene, 2005; 24, 2827-2843.

16. Zhu W, Abbas T and Dutta A. DNA replication and genomic instability. "Genome instability and cancer development", ed. Erich Nigg, Series: [Advances in Experimental Medicine and Biology](http://www.springer.com/sgw/cda/frontpage/0%2C11855%2C4-127-69-33109167-0%2C00.html), 2005; 570, 249-279 .

17. Karnani N, Dutta A. Nuclear localization of RFC40 by RIalpha: a link between cellular signaling and proliferation. Cancer Biol Ther. 2005; 4, 438-9.

18. Teer, J.K. and Dutta, A. (2006) Regulation of S Phase. In: Kaldis, P. (ed.) Cell Cycle Regulation. Results and Problems in Cell Differentiation, vol. 42. Springer Berlin, Heidelberg, New York, pp 31-64.

19. Machida YJ, Hamlin JL and Dutta A. Right place, right time, and only once: replication initiation in metazoans. Cell. 2005; 123, 13-24.

20. Sivaprasad U, Dutta A and Bell SP. Assembly of Pre-replication Complexes. In *DNA replication and human disease* (ed. M.L. DePamphilis). Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York. 2006; pp. 63-88.

21. Abbas T and Dutta A. CDK2-Activating Kinase (CAK): More Questions than Answers. Cell Cycle. 2006; 5, 1123-1124.

22. Lee YS and Dutta A. MicroRNAs: small but potent oncogenes or tumor suppressors. Curr. Opinion in Investigational Drugs 2006; 7, 560-564.

23. Zhu W and Dutta A. Activation of fanconi anemia pathway in cells with re-replicated DNA. Cell Cycle. 2006; 5, 2306-2309

24. Dutta A. Chaotic license for genetic instability and cancer. Nature Genetics, 2007; 39, 10-11.

25. Sivaprasad U, Machida YJ and Dutta A. APC/C - the master controller of origin licensing? Cell Division, 2007; 2, 8.

26. Hook S, Lin JJ and Dutta A. Mechanisms to Control Rereplication and Implications for Cancer. Curr. Opinion Cell Biol. 2007; 19:663-71**. [PMC2174913](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2174913" \o "PMC: #2174913" \t "aux)**

27. Karnani N, Taylor CM and Dutta A. Microarray analysis of DNA replication timing. In *Microarray Analysis of the Physical Genome* (ed. J.R. Pollack), Methods in Molecular Biology. Humana Press. Springer Science. Totowa, New Jersey. 2009: 191-203.

28. Lee YS and Dutta A. MicroRNAs in cancer. Ann. Review of Pathology. 2009; 4:199-227 **[PMC2769253](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2769253" \o "PMC: #2769253" \t "aux)**

29. Abbas T and Dutta A. p21 in cancer: intricate networks and multiple activities. Nature Reviews Cancer. 2009; 9:400-414. **[PMC2722839](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2722839" \o "PMC: #2722839" \t "aux)**

30. Jha S and Dutta A. RVB1/RVB2: running rings around molecular biology. Molecular Cell. 2009; 34:521-33. **[PMC2733251](http://www.pubmedcentral.gov/articlerender.fcgi?tool=nihms&artid=2733251" \o "PMC: #2733251" \t "aux)**

31. Karnani N, Taylor CM, Dutta A. [Microarray analysis of DNA replication timing.](http://www.ncbi.nlm.nih.gov/pubmed/19488880?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=6) Methods Mol Biol. 2009;556:191-203.

32. Abbas T and Dutta A. CRL4Cdt2: Master Coordinator of Cell Cycle Progression and Genome Stability. Cell Cycle 2011; 10: 241 - 249. PMC3025761

33. Keaton M and Dutta A. Rad18 emerges as a critical regulator of the Fanconi Anemia pathway. Cell Cycle 2011; 10: 2414-5. PMC3233489

34. Mueller AC, Keaton M and Dutta A. DNA replication in the mirror: Mammalian Treslin-TopBP1 interaction reflects yeast Sld3-Dpb11. Current Biology 2011; 21:R638-40.

35. Zhang Y, Dutta A, Abounader R. The role of microRNAs in glioma initiation and progression. Front Biosci. 2012;17:700-12. PMC3278211

36. Gagan J, Dey BK, Dutta A. MicroRNAs regulate and provide robustness to the myogenic transcriptional network. Curr Opin Pharmacol. 2012; 12:383-8 PMC3369106

37. Dey BK, Mueller AC, Dutta A. Non-micro-short RNAs: the new kids on the block. Mol Biol Cell. 2012; 23:4664-7. PMC3521675

38. Abbas T, Keaton MA and Dutta A. Genomic Instability and Cancer. In *DNA replication and human disease* (ed. M.L. DePamphilis). Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York. 5(3):a012914. doi: 10.1101/cshperspect.a012914.. PMC3578360

39. Rosenbaum J., Baek SH, Dutta A, Houry WA, Huber O, Hupp TR and Matias PM. The emergence of the conserved AAA+ ATPases Pontin and Reptin on the signaling landscape. Science Signaling, 2013; 6:mr1. doi: 10.1126/scisignal.2003906.

**C. Citation metric**

Web of Science, h index = 52 (Apr2013)

**D. Patents**

1. Tully, T., Dutta A. and Broadie K. WO/2000/060078. Latheo encoded a subunit of the origin of recognition complex.

2. Dhar S.K and Dutta A. U.S. Patent no., 6,890,743. Geminin and Orc3N inhibit replication of herpesviruses, papillomaviruses and polyomaviruses.

3. Dutta A, Malhotra A and Shibata Y. U.S. Provisional Patent 61/099,943. Anchored Chrompets for Identifying Chromosomal Translocations in Disease.

4. Dutta A, Kumar P. U.S. Provisional Patent 61/691,081. Compositions and methods for using transfer RNA fragments as biomarkers for cancer