CURRICULUM VITAE

PART I: General Information

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**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..

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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)

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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.

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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.

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**C. Citation metric**

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**D. Patents**

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