WILLIAM F. DOVE

Title:
Professor of Oncology and Medical Genetics, Emeritus
George Streisinger Professor of Experimental Biology
University of Wisconsin-Madison

Date of Birth:
June 20, 1936

Education:

Amherst College, Amherst, Mass.	A.B.	1958	Chemistry
Caltech, Pasadena, California	Ph.D.	1962	Chemistry
Cambridge University, England	Fellow	1962-1963	Molecular Genetics
Stanford University, California	Fellow	1964	Biochemistry

Positions held:

Assistant Professor of Oncology, University of Wisconsin-Madison	1965-1968
Associate Professor of Oncology, University of Wisconsin-Madison	1968-1973
Professor of Oncology, University of Wisconsin-Madison	1973-1977
Professor of Oncology and Medical Genetics, University of Wisconsin-Madison	1977-2011
George Streisinger Professor of Experimental Biology, University of Wisconsin-Madison	1986-present
Director, Predoctoral Training Program in Genetics, University of Wisconsin-Madison	1987-2002
Director, Cancer Genetics Program, Wisconsin Comprehensive Cancer Center	1998-2008

Professional activities:
Societies:
- Genetics Society of America
  - Program Committee Chairman 1968, 1989
- International Genetics Federation Council 1984-1993
  - Board of Directors, 1986-1989
  - Nomination Committee, 2006

Review panels:
- Genetics Study Section, NIH, *ad hoc* member 1975, 1977, 1979, 1980
- Pathology Study Section, NIH, *ad hoc* member 1981
- Council, NIGMS, *ad hoc* member 1985
- External Visiting Committee, Department of Microbiology, University of Texas-Austin, 1983-1991
- Howard Hughes Predoctoral Fellowship Panel, 1989
- NIH/DOE Joint Working Group on the Mouse Genome, 1991
- NIH Genome Center: Second Five-year Planning Conference, May 1993
- Board of Scientific Counselors, Division of Cancer Biology, Diagnosis, and Centers, National Cancer Institute, 1994-1996
- Working Group, Preclinical Models for Cancer, NCI, 1996-1999
- Co-Chair, NIH Priority Setting for Mouse Genomics and Genetic Resources, 1998
- Scientific Advisory Board, University of Minnesota Cancer Center, 1998-2011
- Mouse Models for Human Cancer Consortium from 1999: Steering Committee, Working Groups on Modifier Genetics and on Pathology and Laboratory Medicine, and GI Organ Site Committee
- Association of Professors of Human and Medical Genetics, UW representative, 2001-2008
- Scientific Advisory Board of Northwestern University Mouse Mutagenesis Center, 2001-2009

Professional activities: (continued)
Review panels (continued):
External Advisory Board, Medical College of Wisconsin (Milwaukee) Mass Spectrometry Proteomics Initiative, 2002-2008
NHGRI Knockout Mouse Working Group, 2003 and 2005
External Review Board, Searle Leadership Fund, Northwestern University, 2005
Editorial:
JOURNAL OF MOLECULAR BIOLOGY, 1971-1977
GENETICS, Perspectives co-editor, 1987-2008
Courses, Workshops and Symposia:
Phage Course, Cold Spring Harbor Laboratory, 1970, faculty
EMBO Seminar in Biology, Tromso, Norway, 1973, faculty
NATO Advanced Research Workshop, The Molecular Biology of *Physarum polycephalum*, Madison, WI, July 1985, director
NSF-Japan Bilateral Workshop on the Molecular Cell Biology of *Physarum*, Okazaki, Japan, May 1988, co-director
NSF Western Europe Cooperative Program: Workshop on Genes and Development, France, May 1990, co-organizer
Howard Hughes/UWCCC Symposium: The Genetic Analysis of Human Biology—Genes, Genomics, and Molecules, May 1999, co-organizer
Workshop and Conference: The experimental analysis of intestinal cancer, The Jackson Laboratory, October 2000, organizer
Workshop and Conference: Colon cancer in humans and murine models, NCI, AACR, and The Jackson Laboratory, October 2004, organizer
Wisconsin Symposia on Human Biology, chair of the organizing committee: 1999, 2001, 2003, 2006
38th International Symposium of the Princess Takamatsu Cancer Research Fund: New Challenges and Controls for Colon Cancer, 2007, member of the organizing committee

Honors:
Guggenheim Fellow and American Cancer Society Scholar, Institut Pasteur, Paris, 1975-1976
George Streisinger Professor of Experimental Biology, Wisconsin, 1986
American Cancer Society International Fellow, Oxford, UK, 1991
Verne Chapman Memorial Lectures:
Roswell Park, NY, 1998;
Mammalian Genome Society, Washington DC, 2011
Merit Award, National Cancer Institute, Genes Controlling Neoplasia of the Intestinal Epithelium, 1998-2007
Member, National Academy of Sciences, from 1998
Foreign Associate, Belgian Royal Academy of Arts, Letters, and Sciences, from 1999
Fellow, American Academy of Arts and Sciences, from 2000
Keynote Lecture, AACR Special Conference, Genetic Modifiers of Cancer Susceptibility: Lessons from Human Population Studies and Mouse Models, 2001
Evelyn Spritz Lecture, University of Colorado, Denver, 2005
J. L. Guénet Tribute Lecture, Pasteur Institute, Paris, 2005
H. P. Rusch Award for Translational Cancer Research, 2006
Visiting Senior Fellow, Wolfson College and Cambridge Research Institute, 2006-2007
Nakahara Memorial Lectureship Prize, Japan, 2007
Wisconsin Academy of Sciences, Arts and Letters Elected Fellow, 2009
Hilldale Award for Research, Teaching and Service, Biological Sciences Division, University of Wisconsin, 2009
Wisconsin Medical Alumni Association Basic Sciences Emeritus Faculty Award, 2013

Major research advances:

Over time, William Dove and his colleagues have contributed in five distinct areas of genetics and biology. These constitute distinct facets for understanding biological replication and its control.

1) Efficient mutagenesis in *Physarum polycephalum* and the laboratory mouse, leading to the first extensive university-based program of phenotype-driven genetic analysis of the biological problems special to each of these two experimental organisms (Haugli and Dove, 1972; Schedl et al., 1984; Shedlovsky et al., 1986; Moser et al., 1990; McDonald et al., 1990; and Vitaterna et al., 1994). With his McArdle colleague Michael Gould he adapted germline ENU mutagenesis to the laboratory rat, obtaining a colon cancer kindred of this second mammalian genus (Amos-Landgraf et al., 2007).

2) The molecular genetics of *Physarum polycephalum*, from Mendelian dissection of the gene families for the eukaryotic cytoskeleton to opening the molecular analysis of gene function in this organism by DNA transformation (Schedl and Dove, 1982 and Burland et al., 1993).

3) Nested sets and genetic structure:
   - The integrated lambda prophage (Franklin et al., 1965)
   - Regions of mammalian chromosomes over which strong positive interference operates (King et al., 1989).

4) Elements of growth control – from DNA replication of phage lambda, through nuclear cycling in *Physarum polycephalum,* to neoplasia in the intestinal epithelium of mammals:
   - *Trans*-acting positive factors and a *cis*-acting replication origin intrinsically activated by local transcription (Dove et al., 1969 and 1971; Furth et al., 1978; and Furth et al., 1979).
   - Periodic transcription for regulators of the cell cycle (Laffler et al., 1981 and Schedl et al., 1984).
   - Autonomous and non-autonomous negative regulators controlling homeostasis in the intestinal epithelium, identified by the *Min*, *Mom1*, and *Pde4b* alleles of the mouse and the *Pirc* allele of the rat (Moser et al., 1990; Su et al., 1992; Dietrich et al., 1993; Gould and Dove, 1996; Cormier et al., 1997; Pleiman et al., 2018; and Amos-Landgraf et al., 2006).
   - A general strategy for the discovery of protectors against cancer predispositions (Dove et al., 1998).
   - Strong synergy between complementary factors, each with a mild effect on the growth of a tumor (Cormier and Dove, 2000).
   - Polyclonal interactions in the establishment of intestinal neoplasms (Merritt et al., 1997; Thliveris et al., 2005).

5) Discovering factors fundamental to early colon cancer by conservation with the mouse and rat (Pleiman et al., 2018 and Ivancic et al., 2019).

With the closing of the Dove "wet lab", the emergent focus of Dove's effort is to synergize with collaborators to characterize further the molecular biology of the early stages of intestinal neoplasia in a mammalian triad – the mouse, the rat, and the human. The over-arching goal of these investigations is to elaborate complementary molecular discovery strategies to find ways to improve the early detection of these neoplasms in human populations. This effort has been enhanced by the abilities of Linda Clipson, a long-term McArdle researcher who also participates in the research on colon cancer in the labs of Drs. Halberg and Deming.

Our website, https://dove.mcardle.wisc.edu, contains PDFs or links for these key publications and images of the Dove Lab.

Publications of W. F. Dove and his research group:

Dove, W. F., Wallace, F. A., and Davidson, N. Spectrophotometric Study of the Protonation of Undenatured DNA. Biochem. Biophys. Res. Commun., 1: 312-317, 1959.

Dove, W. F., and Yamane, T. The Complete Retention of Transforming Activity After Reversal of the Interaction of DNA with Mercuric Ion. Biochem. Biophys. Res. Commun., 3: 608-612, 1960. PMID: 13724114.

Dove, W. F., and Davidson, N. Cation Effects on the Denaturation of DNA. J. Mol. Biol., 5: 467-478, 1962.

Dove, W. F., and Davidson, N. The Thermal Inactivation of Transforming Activity at Low Ionic Strength. J. Mol. Biol., 5: 479-486, 1962.

Vinograd, J., Morris, J., Davidson, N., and Dove, W. F., Jr. The Buoyant Behavior of Viral and Bacterial DNA in Alkaline CsCl. Proc. Natl. Acad. Sci., U.S.A., 49: 12-17, 1963. PMID: 13997384. Free PMC Article.

Dove, W. F., and Weigle, J. J. Intracellular State of the Chromosome of Bacteriophage Lambda. I. The Eclipse of Infectivity of the Bacteriophage DNA. J. Mol. Biol., 12: 620-629, 1965. PMID: 5323478.

Franklin, N. C., Dove, W. F., and Yanofsky, C. The Linear Insertion of a Prophage into the Chromosome of *E. coli* Shown by Deletion Mapping. Biochem. Biophys. Res. Commun., 18: 910-923, 1965. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Dove, W. F. Action of the Lambda Chromosome. I. Control of Functions Late in Bacteriophage Development. J. Mol. Biol., 19: 187-201, 1966. PMID: 5967283.

Dove, W. F. The Synthesis of the λ Chromosome: the Role of the Prophage Termini. In: J. Colter and W. Paranchych (Eds.), The Molecular Biology of Viruses, pp. 111-123. New York: Academic Press, 1967

Dove, W. F. The Genetics of the Lambdoid Phages. Annu. Rev. Genet., 2: 305-340, 1968.

Dove, W. F. The Extent of *rII* Deletions in Phage T4. Genet. Res., Camb., 11: 215-219, 1968.

Dove, W. F. Strains of Phage Lambda in Current Use. Virology, 38: 349-351, 1969. PMID: 4891412.

Dove, W. F., Hargrove, E., Ohashi, M., Haugli, F., and Guha, A. Replicator Activation in Lambda. (Proceedings of the XIIth International Congress of Genetics, Tokyo, August, 1968). Japan. J. Genet., 44: Suppl. 1, 11-22, 1969.
Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Dove, W. F., and McLeester, C. A Quantitative, Sensitive Assay for Defective Lambda Particles. Virology, 39: 607-609, 1969. PMID: 4902073.

Franklin, N. C., and Dove, W. F. Genetic Evidence for Restriction Targets in the DNA of Phages λ and ϕ80. Genet. Res., Camb., 14: 151-157, 1969. PMID: 5367368.

Corbett, T. H., Heidelberger, C., and Dove, W. F. Determination of the Mutagenic Activity to Bacteriophage T4 of Carcinogenic and Noncarcinogenic Compounds. Mol. Pharmacol., 6: 667-679, 1970. PMID: 5497717.

Dove, W. F. An Energy-Level Hypothesis for λ Prophage Insertion and Excision. J. Mol. Biol., 47: 585-589, 1970. PMID: 4907274.

Dove, W. F. Biological Inferences. In: A. D. Hershey (Ed.), The Bacteriophage Lambda, Chap. 15, pp. 297-312. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1971.

Dove, W. F., Inokuchi, H., and Stevens, W. F. Replication Control in Phage Lambda. In: A. D. Hershey (Ed.), The Bacteriophage Lambda, pp. 747-771. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1971. Peer-reviewed by E. Siguer and I. Herskowitz. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Hershey, A. D., and Dove, W. F. Introduction to Lambda. In: A. D. Hershey (Ed.), The Bacteriophage Lambda, Chap. 1, pp. 3-11. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1971.

Nijkamp, H. J. J., Szybalski, W., Ohashi, M., and Dove, W. F. Gene Expression by Constitutive Mutants of Coliphage Lambda. Mol. Gen. Genet., 114: 80-88, 1972. PMID: 5015426.

Shedlovsky, A., and Dove, W. F. The Study of Protein Synthesis. In: Topics in the Study of Life -- The BIO Source Book, pp. 273-281. New York: Harper and Row, 1971.

Davies, R. W., Dove, W. F., Inokuchi, H., Lehman, J. F., and Roehrdanz, R. L. Regulation of λ Prophage Excision by the Transcriptional State of DNA. Nature New Biol., 238: 43-45, 1972. PMID: 18663851.

Haugli, F. B., and Dove, W. F. Mutagenesis and Mutant Selection in *Physarum polycephalum*. Mol. Gen. Genet., 118: 109-124, 1972. PMID: 4673170. PMID: 4673170

Haugli, F. B., Dove, W. F., and Jimenez, A. Genetics and Biochemistry of Cycloheximide Resistance in *Physarum polycephalum*. Mol. Gen. Genet., 118: 97-107, 1972. PMID: 4562869.

Jones, T. C., and Dove, W. F. Photosensitization of Transcription by Bromodeoxyuridine Substitution. J. Mol. Biol., 64: 409-416, 1972. PMID: 4554019.

Dove, W. F., Lehman, J. F., Roehrdanz, R. L., and Wyatt, W. M. Currents and Cross-Currents of Information Flow in the Growth of Temperate Phages. In: C. F. Fox and W. S. Robinson (Eds.), Virus Research, 2nd ICN-UCLA Symposium on Molecular Biology, pp. 171-180. New York: Academic Press, 1973.

Inokuchi, H., Dove, W. F., and Freifelder, D. Physical Studies of RNA Involvement in Bacteriophage λ DNA Replication and Prophage Excision. J. Mol. Biol., 74: 721-727, 1973. PMID: 4580911.

Lehman, J. F., Gleason, M. K., Ahlgren, S. K., and Metzenberg, R. L. Regulation of Phosphate Metabolism in *Neurospora crassa*. Characterization of Regulatory Mutants. Genetics, 75: 61-73, 1973. PMID: 137163. Free PMC Article

Barrett, K., Barclay, S., Calendar, R., Lindqvist, B., and Six, E. Reciprocal *trans*activation in a Two Chromosome Phage System. In: W. S. Robinson and C. F. Fox (Eds.), Mechanisms of Virus Disease, pp. 385-401. Menlo Park, CA: W. A. Benjamin Inc., 1974.

Gorman, J. A., and Dove, W. F. A Method of Indirect Mutant Selection in Physarum poly¬ceph-alum Using the Antibiotic Netropsin. Mol. Gen. Genet., 133: 345-351, 1974. PMID: 4474585

Lehman, J. F. λ Site-specific Recombination: Local Transcription and an Inhibitor Specified by the *b*2 Region. Mol. Gen. Genet., 130: 333-344, 1974. PMID: 4852640.

Wyatt, W. M., and Inokuchi, H. Stability of Lambda *O* and *P* Replication Functions. Virology, 58: 313-315, 1974. PMID: 4821702.

Jacobson, D. N., and Dove, W. F. The Amoebal Cell of Physarum polycephalum: Colony Formation and Growth. Dev. Biol., 47: 97-105, 1975. PMID: 239390.

Ohashi, M., and Dove, W. F. Lethal Lysogenization by Coliphage Lambda. Virology, 72: 9-307, 1976. PMID: 782020

Wilkins, A. S. Replicative Patterning and Determination. Differentiation, 5: 15-19, 1976. PMID: 24169.

Young, J. D., Gorman, J. W., Gorman, J. A., and Bock, R. M. Indirect Selection for Auxotrophic Mutants of *Saccharomyces cerevisiae* Using the Antibiotic Netropsin. Mutat. Res., 35: 423-428, 1976. PMID: 778604.

Furth, M. E., Blattner, F. R., McLeester, C., and Dove, W. F. Genetic Structure of the Replication Origin of Bacteriophage Lambda. Science, 198: 1046-1051, 1977. PMID: 929186.

Denniston-Thompson, K., Moore, D. D., Kruger, K. E., Furth, M. E., and Blattner, F. R. Physical Structure of the Replication Origin of Bacteriophage Lambda. Science, 198: 1051-1056, 1977. PMID: 929187.

Gorman, J. A. Adaptation to Trichodermin and Anisomycin in *Physarum polycephalum*. J. Cell. Physiol., 92: 447-456, 1977. PMID: 561789.

Gorman, J. A., Dove, W. F., and Shaibe, E. Anisomycin Sensitive Mutants of *Physarum polycephalum* Isolated by Cyst Selection. Mol. Gen. Genet., 151: 253-259, 1977. PMID: 559241.

Laffler, T. G., and Dove, W. F. Viability of *Physarum polycephalum* Spores and Ploidy of Plasmodial Nuclei. J. Bacteriol., 131: 473-476, 1977. PMID: 560366. Free PMC Article.

Moore, D. D., Denniston-Thompson, K., Furth, M. E., Williams, B. G., and Blattner, F. R. Construction of Chimeric Phages and Plasmids Containing the Origin of Replication of Bacteriophage Lambda. Science, 198: 1041-1046, 1977. PMID: 929185.

Roehrdanz, R. L., and Dove, W. F. Studies of the Stimulation by Helper of λ Site-specific Recombination in Lytic Crosses. Virology, 79: 32-39, 1977. PMID: 867821.

Roehrdanz, R. L., and Dove, W. F. A Factor in the *b*2 Region Affecting Site-specific Recombinations in Lambda. Virology, 79: 40-49, 1977. PMID: 867822.

Yates, J. L., Gette, W. R., Furth, M. E., and Nomura, M. Effects of Ribosomal Mutations on the Read-Through of a Chain Termination Signal: Studies on the Synthesis of Bacteriophage λ *O* Gene Protein *in Vitro*. Proc. Natl. Acad. Sci., U.S.A., 74: 689-693, 1977. PMID: 322139.

Avner, P. R., Dove, W. F., Dubois, P., Gaillard, J. A., Guénet, J.-L., Jacob, F., Jakob, H., and Shedlovsky, A. The Genetics of Teratocarcinoma Transplantation: Tumor Formation in Allogeneic Hosts by the Embryonal Carcinoma Cell Lines F9 and PCC3. Immunogenetics, 7: 103-115, 1978. PMID: 21302063.

Barclay, S. L., and Dove, W. F. Mutations of Bacteriophage P2 Which Prevent Activation of P2 Late Genes by Satellite Phage P4. Virology, 91: 321-335, 1978. PMID: 741656.

Barclay, S. L., and Dove, W. F. Mutants of *E. coli* in Which Bacteriophage P4 Cannot Activate the Late Genes of Its Helper, Bacteriophage P2. Virology, 91: 336-344, 1978. PMID: 369115.

Furth, M. E., McLeester, C., and Dove, W. F. Specificity Determinants for Bacteriophage Lambda Replication. I. a Chain of Interactions that Controls the Initiation of Replication. J. Mol. Biol., 126: 195-225, 1978. PMID: 739547. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Furth, M. E., and Yates, J. L. Specificity Determinants for Bacteriophage Lambda DNA Replication. II. Structure of O Proteins of λ-ϕ80 and λ-82 Hybrid Phages and of a λ Mutant Defective in the Origin of Replication. J. Mol. Biol., 126: 227-240, 1978. PMID: 739548. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Inokuchi, H., and Dove, W. F. Deletion of Control Sites in the p_L Operon of Phage Lambda. Virology, 88: 261-262, 1978. PMID: 18627879.

Furth, M. E., Yates, J. L., and Dove, W. F. Positive and Negative Control of Bacteriophage Lambda DNA Replication. Cold Spring Harbor Symp. Quant. Biol., 43: 147-153, 1979. PMID: 157833.

Gorman, J. A., Dove, W. F., and Shaibe, E. Mutations Affecting the Initiation of Plasmodial Development in *Physarum polycephalum*. Dev. Genet., 1: 47-60, 1979.

Laffler, T. G., Wilkins, A., Selvig, S., Warren, N., Kleinschmidt, A., and Dove, W. F. Temperature-sensitive Mutants of *Physarum polycephalum*: Viability, Growth, and Nuclear Replication. J. Bacteriol., 138: 499-504, 1979. PMID: 438137. Free PMC Article.

Bishop, G. A., and Dove, W. F. Semisyngeneic Hybrid Resistance to Murine Teratocarcinoma Cells. Immunogenetics, 10: 383-393, 1980. PMID: 22457930. Free Article.

Dove, W. F., and Rusch, H. P. (Eds.) Growth and Differentiation in *Physarum polycephalum*. Princeton: Princeton University Press, 250 pp., 1980.

Gorman, J. A., and Wilkins, A. S. Developmental Phases in the Life Cycle of *Physarum* and Related Myxomycetes. In: W. F. Dove and H. P. Rusch (Eds.), Growth and Differentiation in *Physarum polycephalum*, Chap. 6, pp. 157-202. Princeton: Princeton University Press, 1980.

Kuhn, I. Stage-specific Antigens of *Physarum polycephalum*. Exptl. Cell Res., 127: 431-434, 1980. PMID: 6769687.

Gorman, J. A., Dove, W. F., and Warren, N. Isolation of Physarum DNA Segments that Support Autonomous Replication in Yeast. Mol. Gen. Genet., 183: 306-313, 1981. PMID: 7035828.

Laffler, T. G., Chang, M. T., and Dove, W. F. Periodic Synthesis of Microtubular Proteins in the Cell Cycle of *Physarum*. Proc. Natl. Acad. Sci., U.S.A., 78: 5000-5004, 1981. PMID: 6946448. Free PMC Article.

Laffler, T. G., and Dove, W. F. Thymidine-dependent Growth of *Physarum polycephalum* Amoebae Treated with Methotrexate in Axenic Culture. Exp. Cell Res., 132: 500-502, 1981. PMID: 7215461.

Shedlovsky, A., Clipson, L. J., VandeBerg, J. L., and Dove, W. F. Strong Teratocarcinoma Transplantation Loci, *Gt-1* and *Gt-2*, Flank *H-2*. Immunogenetics,

Furth, M. E., Dove, W. F., and Meyer, B. J. Specificity Determinants for Bacteriophage λ DNA Replication. III. Activation of Replication in λ*ri*^{c} Mutants by Transcription Outside of *ori*. J. Mol. Biol., 154: 65-83, 1982. PMID: 6210781.

Johnson, L. L. A Protocol for Detection of H-Y Antigenic Variants. Immunogenetics, 16: 577-582, 1982. PMID: 6763915.

Kinniburgh, A. J., Maquat, L. E., Schedl, T., Rachmilewitz, E., and Ross, J. mRNA-Deficient β°-Thalassemia Results from a Single Nucleotide Deletion. Nucl. Acids Res., 10: 5421-5427, 1982. PMID: 6292840.

Schedl, T., and Dove, W. F. Mendelian Analysis of the Organization of Actin Sequences in *Physarum polycephalum*. J. Mol. Biol., 160: 41-57, 1982. PMID: 6294303.

Burland, T. G., Gull, K., Schedl, T., Boston, R. S., and Dove, W. F. Cell Type-dependent Expression of Tubulins in Physarum. J. Cell Biol., 97: 1852-1859, 1983. PMID: 6196370. Free PMC Article.

Chang, M. T., Dove, W. F., and Laffler, T. G. The Periodic Synthesis of Tubulin in the *Physarum* Cell Cycle. J. Biol. Chem., 258: 1352-1356, 1983. PMID: 6822502. Free Article.

Johnson, L. L., Clipson, L. J., Dove, W. F., Feilbach, J., Maher, L. J., and Shedlovsky, A. Teratocarcinoma Transplantation Antigens Are Encoded in the *H-2* Region. Immunogenetics, 18: 137-145, 1983. PMID: 6350173.

Johnson, L. L., Shedlovsky, A., Clipson, L. J., and Dove, W. F. The Genetics of Allograft Rejection of Teratocarcinoma Cell Lines. In: L. M. Silver, G. R. Martin, and S. Strickland (Eds.), Cold Spring Harbor Conferences on Cell Proliferation, Vol. 10, Teratocarcinoma Stem Cells, pp. 531-539. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1983.

Burland, T. G., and Gull, K. Molecular and Cellular Aspects of the Interaction of Benzimidazole Fungicides with Tubulin and Microtubules. In: A. P. J. Trinci and J. F. Ryley (Eds.), Mode of Action of Antifungal Agents, Chap. 14, pp. 299-320. British Mycological Society, 1984.

Burland, T. G., Schedl, T., Gull, K., and Dove W. F. Genetic Analysis of Resistance to Benzimidazoles in *Physarum*: Differential Expression of β-Tubulin Genes. Genetics, 108: 123-141, 1984. PMID: 6479584. Free PMC Article.

Dove, W. F. Developmental Molecular Genetics of the Mouse and its Embryonal Carcinoma. (Symposium on Molecular Biology of Embryonic and Teratocarcinoma Stem Cells, Prague, September, 1984). Cell Differentiation, 15: 205-213, 1984. PMID: 6399009.

Green, L. L., and Dove, W. F. Tubulin Proteins and RNA During the Myxamoeba-Flagellate Transformation of *Physarum polycephalum*. Mol. Cell. Biol., 4: 1706-1711, 1984. PMID: 6208478. Free PMC Article.

Johnson, L. L., and Dove, W. F. Male-Specific Transplantation Antigen Expression by XY Teratocarcinomas PCC7 and 7'. Immunogenetics, 19: 233-241, 1984. PMID: 6368378.

Maher, L. J., III, and Dove, W. F. Overt Expression of *H-2* Serotypes on EC Cells is Not Necessary for Host Rejection. Immunogenetics, 19: 343-347, 1984. PMID: 6715024.

Roobol, A., Paul, E. C. A., Birkett, C. R., Foster, K. E., Gull, K., Burland, T. G., Dove, W. F., Green, L., Johnson, L., and Schedl, T. Cell Types, Microtubular Organelles, and the Tubulin Gene Families of *Physarum*. In: G. G. Borisy, D. W. Cleveland, and D. B. Murphy (Eds.), Molecular Biology of the Cytoskeleton, pp. 223-234. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1984.

Schedl, T., Burland, T. G., Dove, W. F., Roobol, A., Paul, E. C. A., Foster, K. E., and Gull, K. Tubulin Expression and the Cell Cycle of the *Physarum* Plasmodium. In: G. Borisy, D. Cleveland, and D. Murphy (Eds.), Molecular Biology of the Cytoskeleton, pp. 235-243. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1984. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Schedl, T., Burland, T. G., Gull, K., and Dove, W. F. Cell Cycle Regulation of Tubulin RNA Level, Tubulin Protein Synthesis, and Assembly of Microtubules in Physarum. J. Cell Biol., 99: 155-165, 1984. PMID: 6203916. Free PMC Article.

Schedl, T. S., Owens, J., Dove, W. F., and Burland, T. G. Genetics of the Tubulin Gene Families of *Physarum*. Genetics, 108: 143-164, 1984. PMID: 6090267. Free PMC Article.

Birkett, C. R., Foster, K. E., Johnson, L., and Gull, K. Use of Monoclonal Antibodies to Analyse the Expression of a Multi-Tubulin Family. FEBS Lett., 187: 211-218, 1985. PMID: 4018260.

Krämmer, G., Singhofer-Wowra, M., Seedorf, K., Little, M., and Schedl, T. A Plasmodial α-Tubulin cDNA from *Physarum polycephalum*. Nucleotide Sequence and Comparative Analysis. J. Mol. Biol., 183: 633-638, 1985.

Moser, A. R., Johnson, L. L., and Dove, W. F. Mice Coisogenically Immunized Against *H-2* Class I Antigens on Transfected L Cells Reject Transplanted Embryonal Carcinoma Cells. Immunogenetics, 22: 533-541, 1985. PMID: 4077147.

Burland, T. G. Genetic Analysis in *Physarum polycephalum*. In: W. F. Dove, J. Dee, S. Hatano, F. B. Haugli, and K.-E. Wohlfarth-Bottermann (Eds.), The Molecular Biology of Physarum polycephalum, NATO ASI Series, Chap. 2, pp. 19-38. New York: Plenum Press, 1986.

Dove, W. F. To Bring Molecular Genetics to the Study of Biological Motility in *Physarum*. In: W. F. Dove, J. Dee, S. Hatano, F. B. Haugli, and K-E. Wohlfarth-Bottermann (Eds.), The Molecular Biology of *Physarum polycephalum*, NATO ASI Series, Chap. 17, pp. 243-251. New York: Plenum Press, 1986.

Dove, W. F., Dee, J., Hatano, S., Haugli, F. B., and Wohlfarth-Bottermann, K.- E. (Eds.), The Molecular Biology of *Physarum polycephalum*, NATO ASI Series, 363 pp. New York: Plenum Press, 1986.

Dove, W. F., and Gull, K. Epilogue: *Physarum* as an Integrated Experimental Organism. In: W. F. Dove, J. Dee, S. Hatano, F. B. Haugli, and K.-E. Wohlfarth-Bottermann (Eds.), The Molecular Biology of *Physarum polycephalum*, NATO ASI Series, pp. 337-340. New York: Plenum Press, 1986.

Moser A. R., Shedlovsky, A., and Johnson, L. L. H-2 Class I and Gt(H-2) Antigens Are Identical: Evidence from *H-2* Mutant Mice. Immunogenetics, 23: 271-273, 1986. PMID: 2422118.

Shedlovsky, A., Guenet, J.-L., Johnson, L. L., and Dove, W. F. Induction of Recessive Mutations in the *T/t - H-2* Region of the Mouse Genome by a Point Mutagen. Genet. Res. Camb., 47: 135-142, 1986. PMID: 3710160. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Diggins, M. A., and Dove, W. F. The Distribution of Acetylated Alpha Tubulin in *Physarum polycephalum*. J. Cell Biol., 104: 303-309, 1987. PMID: 3543025. Free PMC Article.

Dove, W. F. Perspectives: Paradox Found. Genetics, 115: 217-218, 1987. PMID: 3549447. Free PMC Article.

Dove, W. F. Perspectives: Molecular Genetics of *Mus musculus*: Point Mutagenesis and Millimorgans. Genetics, 116: 5-8, 1987. PMID: 3596231. Free PMC Article.

Foster, K. E., Burland, T. G., and Gull, K. A Mutant Beta Tubulin Confers Resistance to the Action of Benzamidazole Carbamate Microtubule Inhibitors both *in Vivo* and *in Vitro*. Eur. J. Biochem., 163: 449-455, 1987. PMID: 3830165.

Green, L. L., Schroeder, M., Diggins, M. A., and Dove, W. F. Developmental Regulation and Identification of an Isotype Encoded by *altB*, an Alpha Tubulin Locus in *Physarum polycephalum*. Mol. Cell. Biol., 7: 3337-3340, 1987. PMID: 2823127. Free PMC Article.

Burland, T. G., Paul, E. C. A., Oetliker, M., and Dove, W. F. A Gene Encoding the Major β-Tubulin of the Mitotic Spindle in *Physarum polycephalum* Plasmodia. Mol. Cell. Biol., 8: 1275-1281, 1988. PMID: 2835667. Free PMC Article.

Diggins, M. A., Solnica-Krezel, L., Paul, E. C. A., Burland, T. G., and Dove, W. F. Distribution of the Divergent β2 Tubulin in Several Cell Types of *Physarum polycephalum*. J. Cell Biol., 107: Abst. 107, p. 23a, 1988.

Dove, W. F. Perspectives: The Year of the Fly. Genetics, 118: 169-171, 1988. PMID: 3360304. Free PMC Article. Commentary.

Green, L. L., and Dove, W. F. Correlation between Tubulin mRNA Stability and Poly(A) Length Over the Cell Cycle of *Physarum polycephalum*. J. Mol. Biol., 200: 321-328, 1988. PMID: 3373532.

Shedlovsky, A. S., King, T., and Dove, W. F. Saturation Germ Line Mutagenesis of the Murine *t*-Region Including a Lethal Allele at the Quaking Locus. Proc. Natl. Acad. Sci., U.S.A., 85: 180-184, 1988. PMID: 3422415. Free PMC Article.

Solnica-Krezel, L., Dove, W. F., and Burland, T. G. Activation of a β-Tubulin Gene during Development of the Plasmodium in *Physarum polycephalum*. J. Gen. Microbiol., 134: 1323-1331, 1988. PMID: 3199099.

Diggins-Gilicinski, M., Solnica-Krezel, L., Burland, T. G., Paul, E. C. A., and Dove, W. F. The Localization of the Divergent β2-Tubulin Isotypes in the Microtubular Arrays of *Physarum polycephalum*. J. Cell Sci., 94: 217-226, 1989. PMID: 2695530. Free Article.

Hatano, S., and Dove, W. F. Physarum Newsletter, Okazaki Supplement January 1989. The Molecular Cell Biology of *Physarum polycephalum*.

King, T. R., Dove, W. F., Herrmann, B., Moser, A. R., and Shedlovsky, A. Mapping to Molecular Resolution in the *T* to *H-2* Region of the Mouse Genome with a Nested Set of Meiotic Recombinants. Proc. Natl. Acad. Sci., U.S.A., 86: 222-226, 1989. PMID: 2911572. Free PMC Article.

Paul, E. C. A., Burland, T. G., and Gull, K. Location of a Single β-Tubulin Gene Product in Both Cytoskeletal and Mitotic-Spindle Microtubules in *Physarum polycephalum*. J. Gen. Microbiol., 135: 623-628, 1989. PMID: 2621444.

Brenner, S., Dove, W., Herskowitz, I., and Thomas, R. Genes and Development: Molecular and Logical Themes. Genetics, 126: 479-486, 1990. PMID: 2249752. Free PMC Article. Commentary.

Herrmann, B. G., Labeit, S., Poustka, A., King, T. R., and Lehrach, H. Cloning of *T*, a Locus Required in Mesoderm Formation in the Mouse. Nature, 343: 617-622, 1990. PMID: 2154694.

McDonald, J. D., Bode, V. C., Dove, W. F., and Shedlovsky, A. Pah^{hph-5} a Mouse Mutant Deficient in Phenylalanine Hydroxylase. Proc. Natl. Acad. Sci., U.S.A., 87: 1965-1967, 1990. PMID: 2308957. Free PMC Article.

McDonald, J. D., Bode, V. C., Dove, W. F., and Shedlovsky, A. The Use of *N*-Ethyl-*N*-Nitrosourea to Produce Mouse Models for Human Phenylketonuria and Hyperphenylalaninemia. In: Mutation and the Environment, Part C (Fifth International Conference on Environmental Mutagens), pp. 407-413. New York: Wiley-Liss, 1990. PMID: 2381939.

McDonald, J. D., Shedlovsky, A., and Dove, W. F. Investigating Inborn Errors of Phenylalanine Metabolism by Efficient Mutagenesis of the Mouse Germ Line. In: CSH Banbury Conference Report No. 34, Biology of Mammalian Germ Cell Mutagenesis, pp. 259-270. Cold Spring Harbor: Cold Spring Harbor Laboratory, 1990.

Moser, A. R., Pitot, H. C., and Dove, W. F. A Dominant Mutation That Predisposes to Multiple Intestinal Neoplasia in the Mouse. Science, 247: 322-324, 1990. PMID: 2296722.

Solnica-Krezel, L., Diggins-Gilicinski, M., Burland, T. G., and Dove, W. F. Variable Pathways for Developmental Changes in Composition and Organization of Microtubules in *Physarum polycephalum*. J. Cell Science, 96: 383-393, 1990. PMID: 2229192. Free Article.

Artzt, K., Barlow, D., Dove, W. F., Lindahl, K. F., Klein, J., Lyon, M. F., and Silver, L. M. Maps of Mouse Chromosome 17: First Report. Mammalian Genome, 1: 5-29, 1991. PMID: 1799805.

Burland, T. G., Pallotta, D., Tardif, M. C., Lemieux, G., and Dove, W. F. Fission Yeast Promoter-Probe Vectors Based on Hygromycin Resistance. Gene, 100: 241-245, 1991. PMID: 1647355.

King, T. R. Partial Complementation by Murine *t* Haplotypes: Deficit of Males Among t^6/t^{w5} Double Heterozygotes and Correlation with Transmission-Ratio Distortion. Genet. Res., 57: 55-59, 1991. PMID: 2040455.

King, T. R., and Dove, W. F. Pleiotropic Action of the Murine Quaking Locus: Structure of the qk^v Allele. Mammalian Genome, 1: 47-52, 1991. PMID: 1665374.

King, T. R., Dove, W. F., Guénet, J.-L., Herrmann, B. G., and Shedlovsky, A. Meiotic Mapping of Murine Chromosome 17: the String of Loci around *l(17)-2Pas*. Mammalian Genome, 1: 37-46, 1991. PMID: 1794044.

Moser, A., Dove, W., Drinkwater, N., and Pitot, H. Genetic Models and Multistage Carcinogenesis in the Gastrointestinal System of the Mouse and Rat. In: Origins of Human Cancer: a Comprehensive Review, pp. 601-608. Cold Spring Harbor: Cold Spring Harbor Laboratory Press, 1991. Commentary.

Solnica-Krezel, L., Burland, T. G., and Dove, W. F. Variable Pathways for Developmental Changes of Mitosis and Cytokinesis in *Physarum polycephalum*. J. Cell. Biol., 113: 591-604, 1991. PMID: 2016339. Free PMC Article.

Bailey, J., Solnica-Krezel, L., Anderson, R. W., and Dee, J. A Developmental Mutation (*npfL1*) Resulting in Cell Death in *Physarum polycephalum*. J. Gen. Microbiol., 138: 2575-2588, 1992. PMID: 1487727.

Bailey, J., Solnica-Krezel, L., Lohman, K., Dee, J., Anderson, R. W., and Dove, W. F. Cellular and Molecular Analysis of Plasmodium Development in *Physarum*. Cell Biol. Intl. Repts., 16: 1083-1090, 1992. PMID: 1490279.

Burland, T. G., Bailey, J., Adam, L., Mukhopadhyay, M. J., Dove, W. F., and Pallotta, D. Transient Expression in *Physarum* of a Chloramphenicol Acetyltransferase Gene under the Control of Actin Gene Promoters. Curr. Genet., 21: 393-398, 1992. PMID: 1525865.

Moser, A. R., Dove, W. F., Roth, K. A., and Gordon, J. I. The *Min* (Multiple Intestinal Neoplasia) Mutation: Its Effect on Gut Epithelial Cell Differentiation and Interaction with a Modifier System. J. Cell Biol., 116: 1517-1526, 1992. PMID: 1541640. Free PMC Article.

Paul, E. C. A., Buchschacher, G. L., Jr., Cunningham, D. B., Dove, W. F., and Burland, T. G. Preferential Expression of One β-Tubulin Gene during Flagellate Development in Physarum. J. Gen. Microbiol., 138: 229-238, 1992. PMID: 1556551.

Su, L.-K., Kinzler, K. W., Vogelstein, B., Preisinger, A. C., Moser, A. R., Luongo, C., Gould, K. A., and Dove, W. F. Multiple Intestinal Neoplasia Caused by a Mutation in the Murine Homolog of the APC Gene. Science, 256: 668-670, 1992. PMID: 1350108.

Burland, T. G., Bailey, J., Dove, W. F., Mukhopadhyay, M. J., and Pallotta, D. Methods for Transient and Stable Expression of Heterologous Genes in *Physarum*. Cell Biol. Intl. Repts., 16: 1111-1118, 1993. PMID: 1490280.

Burland, T. G., Bailey, J., Pallotta, D., and Dove, W. F. Stable, Selectable, Integrative DNA Transformation in *Physarum*. Gene, 132: 207-212, 1993. PMID: 8224865.

Burland, T. G., Solnica-Krezel, L., Bailey, J., Cunningham, D. B., and Dove, W. F. Patterns of Inheritance, Development and the Mitotic Cycle in the Protist *Physarum polycephalum*. Adv. Microbial Physiol., 35: 1-69, 1993. PMID: 8310878. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Cox, R. D., Whittington, J., Shedlovsky, A., Connelly, C. S., Dove, W. F., Goldsworthy, M., Larin, Z., and Lehrach, H. Detailed Physical and Genetic Mapping in the Region of plasminogen, *D17Rp17e*, and quaking. Mammalian Genome, 4: 687-694, 1993. PMID: 8111116.

Cunningham, D. B., Buchschacher, G. L., Jr., Burland, T. G., Dove, W. F., Kessler, D., and Paul, E. C. A. Cloning and Characterization of the *altA* α-Tubulin Gene of *Physarum*. J. Gen. Microbiol., 139: 137-151, 1993. PMID: 8450305.

Cunningham, D. B., and Dove, W. F. Two Alleles of a Developmentally Regulated α-Tubulin Locus in *Physarum polycephalum* Replicate on Different Schedules. Mol. Cell. Biol., 13: 449-461, 1993. PMID: 8093328. Free PMC Article.

Dietrich, W. F., Lander, E. S., Smith, J. S., Moser, A. R., Gould, K. A., Luongo, C., Borenstein, N., and Dove, W. Genetic Identification of *Mom-1*, a Major Modifier Locus Affecting *Min*-induced Intestinal Neoplasia in the Mouse. Cell, 75: 631-639, 1993. PMID: 8242739.

Dove, W. F. The Gene, the Polygene, and the Genome. Genetics, 134: 999-1002, 1993. PMID: 8375664. Free PMC Article. Commentary.

Kim, S. H., Roth, K. A., Moser, A. R., and Gordon, J. I. Transgenic Mouse Models that Explore the Multistep Hypothesis of Intestinal Neoplasia. J. Cell Biol., 123: 877-893, 1993. PMID: 8227147. Free PMC Article.

Luongo, C., Gould, K. A., Su, L.-K., Kinzler, K. W., Vogelstein, B., Dietrich, W., Lander, E. S., and Moser, A. R. Mapping of Multiple Intestinal Neoplasia (*Min*) to Proximal Chromosome 18 of the Mouse. Genomics, 15: 3-8, 1993. PMID: 8094372.

Moser, A. R., Mattes, E. M., Dove, W. F., Lindstrom, M. J., Haag, J. D., and Gould, M. N. Apc^{Min}, a Mutation in the Murine *Apc* Gene, Predisposes to Mammary Carcinomas and Focal Alveolar Hyperplasias. Proc. Natl. Acad. Sci., U.S.A., 90: 8977-8981, 1993. PMID: 8415640. Free PMC Article.

Shedlovsky, A., McDonald, J. D., Symula, D., and Dove, W. F. Mouse Models of Human Phenylketonuria. Genetics, 134: 1205-1210, 1993. PMID: 8375656. Free PMC Article.

Shedlovsky, A., McDonald, J. D., Symula, D., and Dove, W. F. Animal Model of Human Disease. Phenylketonuria. Comparative Pathol. Bull., 25 (No. 4): 3-6, 1993.

Bailey, J., Benard, M., and Burland, T. G. A Luciferase Expression System for *Physarum* that Facilitates Analysis of Regulatory Elements. Current Genet., 26: 126-131, 1994. PMID: 8001165

Cox, R. D., Shedlovsky, A., Whittington, J., Goldsworthy, M., Hamvas, R., Connelly, C. S., Dove, W. F., and Lehrach, H. A 1.2 Mb YAC Contig Spans the *quaking* Region. Genomics, 21: 77-84, 1994. PMID: 8088820.

Dove, W. F. Transparent Vertebrates and Their Genetic Images. Genetics, 137: 339-341, 1994. PMID: 8070647. Free PMC Article. Commentary.

Dove, W. F., Luongo, C., Connelly, C. S., Gould, K. A., Shoemaker, A. R., Moser, A. R., and Gardner, R. L. The Adenomatous Polyposis Coli Gene of the Mouse in Development and Neoplasia. Cold Spring Harbor Symp. Quant. Biol., 59: 501-508, 1994. PMID: 7587105.

Fang, B., Eisensmith, R. C., Li, X. H. C., Finegold, M. J., Shedlovsky, A., Dove, W., and Woo, S. L. C. Gene Therapy for Phenylketonuria: Phenotypic Correction in a Genetically Deficient Mouse Model by Adenovirus-mediated Hepatic Gene Transfer. Gene Therapy, 1: 247-254, 1994. PMID: 7584088.

Luongo, C., Moser, A. R., Gledhill, S., and Dove, W. F. Loss of *Apc*$^{+}$ in Intestinal Adenomas from *Min* Mice. Cancer Res., 54: 5947-5952, 1994. PMID: 7954427. Free Article.

Vitaterna, M. H., King, D. P., McDonald, J. D., Chang, A.-M., Kornhauser, J. M., Lowrey, P. L., Dove, W. F., Pinto, L. H., Turek, F. W., and Takahashi, J. S. Mutagenesis and Mapping of a Mouse Gene, *Clock*, Essential for Circadian Behavior. Science, 264: 719-725, 1994. PMID: 8171325. Free PMC Article.

Kornguth, S., Anderson, M., Markley, J. L., and Shedlovsky, A. Near-Microscopic Magnetic Resonance Imaging of the Brains of Phenylalanine Hydroxylase-Deficient Mice, Normal Littermates, and of Normal BALB/c Mice at 9.4 Tesla. Neuroimage, 1: 220-229, 1994. PMID: 9343573.

Burland, T. G., and Bailey, J. Electroporation of *Physarum polycephalum*. In: J. A. Nickoloff (Ed.), Methods in Molecular Biology, Vol. 47, Electroporation Protocols for Microorganisms, Chap. 31, pp. 303-320. Totowa, NJ: Humana Press, 1995.

Burland, T. G., and Pallotta, D. Homologous Gene Replacement in *Physarum*. Genetics, 139: 147-158, 1995. PMID: 7705620. Free PMC Article.

Dove, W.F. Mammalian Development and Human Cancer: From the Phage Group to the Genetics of Intestinal Cancer. In: G. Cooper, R. Greenberg Temin, and B. Sugden (Eds.), The DNA Provirus: Howard Temin's Scientific Legacy, Chap. 8, pp. 95-107. Washington, D.C.: American Society of Microbiology, 1995. Commentary. Available at https://dovelab.wiscweb.wisc.edu/research-publications/

Moser, A. R., Shoemaker, A. R., Connelly, C. S., Clipson, L., Gould, K. A., Luongo, C., Dove, W. F., Siggers, P. H., and Gardner, R. L. Homozygosity for the *Min* Allele of *Apc* Results in Disruption of Mouse Development Prior to Gastrulation. Developmental Dynamics, 203: 422-433, 1995. PMID: 7496034. Free Article.

Solnica-Krezel, L., Bailey, J., Gruer, D. P., Price, J. M., Dove, W. F., Dee, J., and Anderson, R. W. Characterization of *npf* Mutants Identifying Developmental Genes in *Physarum.* Microbiology, 141: 799-816, 1995. PMID: 7773386.

Moser, A. R., Luongo, C., Gould, K. A., McNeley, M. K., Shoemaker, A. R., and Dove, W. F. *Apc*^{Min}: a Mouse Model for Intestinal and Mammary Tumorigenesis. Europ. J. Cancer (special issue), 31A: 1061-1064, 1995. PMID: 7496034. Free Article.

Shoemaker, A. R., Moser, A. R., and Dove, W. F. ENU Treatment of Min Mice: Age-related Effects on the Formation of Intestinal Adenomas, Cystic Crypts, and Epidermoid Cysts. Cancer Res., 55: 4479-4485, 1995. PMID: 7671263. Free Article.

Dove, W. F., Gould, K. A., Luongo, C., Moser, A. R., and Shoemaker, A. R. Emergent Issues in the Genetics of Intestinal Neoplasia. Cancer Surveys, 25: 335-355, 1995. PMID: 8718526.

Jacoby, R. F., Marshall, D. J., Newton, M., Novakovic, K., Tutsch, K., Cole, C. E., Lubet, R. A., Kelloff, G. J., Verma, A., Moser, A. R., and Dove, W. F. Chemoprevention of Spontaneous Intestinal Adenomas in the *Apc*^{Min} Mouse Model by the Non-Steroidal Anti-Inflammatory Drug Piroxicam. Cancer Research, 56: 710-714, 1996. PMID: 8631000. Free Article.

Luongo, C., and Dove, W. F. Somatic Genetic Events Linked to the *Apc* Locus in Intestinal Adenomas of the Min Mouse. Genes, Chromosomes, and Cancer, 17: 194-198, 1996. PMID: 8946200.

Beazer-Barclay, Y., Levy, D. B., Moser, A. R., Dove, W. F., Hamilton, S. R., Vogelstein, B., and Kinzler, K. W. Sulindac Suppresses Tumorigenesis in the Min Mouse. Carcinogenesis, 17: 1757-1760, 1996. PMID: 8761438.

Gould, K. A., and Dove, W. F. Action of *Min* and *Mom1* on Neoplasia in Ectopic Intestinal Grafts. Cell Growth Differ., 7: 1361-1368, 1996. PMID: 8891340. Free Article.

Gould, K. A., Dietrich, W. F., Borenstein, N., Lander, E. S., and Dove, W. F. *Mom1* is a Semi-Dominant Modifier of Intestinal Adenoma Size and Multiplicity in *Min*/+ Mice. Genetics, 144: 1769-1776, 1996. PMID: 8978062. Free PMC Article.

Gould, K. A., Luongo, C., Moser, A. R., McNeley, M. K., Borenstein, N., Shedlovsky, A., Dove, W. F., Hong, K., Dietrich, W. F., and Lander, E. S. Genetic Evaluation of Candidate Genes for the *Mom1* Modifier of Intestinal Neoplasia in Mice. Genetics, 144: 1777-1785, 1996. PMID: 8978063. Free PMC Article.

Williams, C. S., Luongo, C., Radhika, A., Zhang, T., Lamps, L. W., Nanney, L. B., Beauchamp, R. D., and DuBois, R. N. Elevated Cyclooxygenase-2 in Min Mouse Adenomas. Gastroenterology, 111: 1134-1140, 1996. PMID: 8831610.

Bilger, A., Shoemaker, A. R., Gould, K. A., and Dove, W. F. Manipulation of the Mouse Germline in the Study of *Min*-induced Neoplasia. In: Seminars in Cancer Biology, Issue CB8/1. Gene Targeted Mice in Cancer Research, Allan Bradley (Ed.), 7: 249-260, 1996. PMID: 9110402. Commentary.

Symula, D. J., Shedlovsky, A., and Dove, W. F. Genetic Mapping of *hph-2*, a Mutation Affecting Amino Acid Transport in the Mouse. Mammalian Genome, 8: 98-101, 1997. PMID: 9060407.

Symula, D. J., Shedlovsky, A., Guillery, E. N., and Dove, W. F. A Candidate Mouse Model for Hartnup Disorder Deficient in Neutral Amino Acid Transport. Mammalian Genome, 8: 102-107, 1997. PMID: 9060408.

Shoemaker, A. R., Gould, K. A., Luongo, C., Moser, A. R., and Dove, W. F. Studies of Neoplasia in the Min Mouse. BBA Reviews on Cancer, 1332: F25-F48, 1997. PMID: 9141462. Commentary.

Dove, W. F., Clipson, L., Gould, K. A., Luongo, C., Marshall, D. J., Moser, A. R., Newton, M. A., and Jacoby, R. F. Intestinal Neoplasia in the Apc^{Min} Mouse: Independence from the Microbial and Natural Killer (*beige* Locus) Status. Cancer Res., 57: 812-814, 1997. PMID: 9041176.

Zhang, T., Nanney, L. B., Luongo, C., Lamps, L., Heppner, K. J., DuBois, R. N., and Beauchamp, R. D. Concurrent Overexpression of Cyclin D1 and Cyclin-dependent Kinase 4 (Cdk4) in Intestinal Adenomas from Multiple Intestinal Neoplasia (Min) Mice and Human Familial Adenomatous Polyposis Patients. Cancer Res., 57: 169-175, 1997. PMID: 8988060. Free full text.

Gould, K. A., and Dove, W. F. Localized Gene Action Controlling Intestinal Neoplasia in Mice. Proc. Natl. Acad. Sci., U.S.A., 94: 5848-5853, 1997. PMID: 9159163. Free PMC Article.

Shoemaker, A. R., Luongo, C., Moser, A. R., Marton, L. J., and Dove, W. F. Somatic Mutational Mechanisms Involved in Intestinal Tumor Formation in Min Mice. Cancer Res., 57: 1999-2006, 1997. PMID: 9157997. Free Article.

King, D. P., Vitaterna, M. H., Chang, A.-M., Dove, W. F., Pinto, L. H., Turek, F. W., and Takahashi, J. S. The Mouse *Clock* Mutation Behaves as an Antimorph and Maps Within the W^{19H} Deletion, Distal of *Kit*. Genetics, 146: 1049-1060, 1997. PMID: 9215907. Free PMC Article.

Cormier, R. T., Hong, K. H., Halberg, R. B., Hawkins, T. L., Richardson, P., Mulherkar, R., Dove, W. F., and Lander, E. S. Secretory Phospholipase Pla2g2a Confers Resistance to Intestinal Tumorigenesis. Nature Genet., 17: 88-91, 1997. PMID: 9288104.

Merritt, A. J., Gould, K. A., and Dove, W. F. Polyclonal Structure of Intestinal Adenomas in $Apc^{Min/+}$ Mice with Concomitant Loss of Apc^{+} from all Tumor Lineages. Proc. Natl. Acad. Sci., 94: 13927-13931, 1997. PMID: 9391129. Free PMC Article.

Dove, W. F., Cormier, R. T., Gould, K. A., Halberg, R. B., Merritt, A. J., Newton, M. A., and Shoemaker, A. R. The Intestinal Epithelium and Its Neoplasms: Genetic, Cellular, and Tissue Interactions. Phil. Trans. R. Soc., Lond. B., 353: 915-923, 1998. PMID: 9684289. Free PMC Article. Commentary.

Gould, K. A., and Dove, W. F. Analysis of the *Mom1* Modifier of Intestinal Neoplasia in Mice. Exp. Lung Res., 24: 437-453, 1998. PMID: 9659576.

Shoemaker, A. R., Moser, A. R., Midgley, C. A., Clipson, L., Newton, M. A., and Dove, W. F. A Resistant Genetic Background Leading to Incomplete Penetrance of Intestinal Neoplasia and Reduced Loss of Heterozygosity in Apc^{Min}/+ Mice. Proc. Natl. Acad. Sci., U.S.A., 95: 10826-10831, 1998. PMID: 9724789. Free PMC Article.

Crow, J. F., and Dove, W. F. Birds' Eye View: A Decade of Perspectives. Genetics, 148: 1405-1407, 1998. PMID: 9581627. Commentary.

Battey, J., Jordan, E., Cox, D., and Dove, W. An Action Plan for Mouse Genomics. Nature Genetics, 21: 73-75, 1999. PMID: 9916794. Commentary.

Dove, W. F. Genes and Cancer: Risk Determinants and Agents of Change. In: M. D. Abeloff, J. O. Armitage, A. S. Lichter, and J. E. Niederhuber (Eds.), Clinical Oncology, Chap. 4, 2nd Edition. Commentary.

Cox, R. D., Hugill, A., Shedlovsky, A., Noveroske, J. K., Best, S., Justice, M. J., Lehrach, H., and Dove, W. F. Contrasting Effects of ENU Induced Embryonic Lethal Mutations of the *quaking* Gene. Genomics, 57: 333-341, 1999. PMID: 10328999.

Bailey, J., Cook, L. J., Kilmer-Barber, R., Swanston, E., Solnica-Krezel, L., Lohman, K., Dove, W. F., Dee, J., and Anderson, R. W. Identification of Three Genes Expressed Primarily During Development in *Physarum polycephalum*. Arch. Microbiol., 172: 364-376, 1999. PMID: 10591846.

Halberg, R. B., Katzung, D. S., Hoff, P. D., Moser, A. R., Cole, C. E., Lubet, R. A., Donehower, L. A., Jacoby, R. F., and Dove, W. F. Tumorigenesis in the Multiple Intestinal Neoplasia Mouse: Redundancy of Negative Regulators and Specificity of Modifiers. Proc. Natl. Acad. Sci., U.S.A., 97: 3461-3466, 2000. PMID: 10716720. Free PMC Article.

Dove, W. F. Closing the Circle: A. D. Hershey and Lambda I. In: F. W. Stahl (Ed.), We Can Sleep Later, Cold Spring Harbor Press, 2000. Commentary.

Shoemaker, A. R., Haigis, K. M., Baker, S. M., Dudley, S., Liskay, R. M., and Dove, W. F. Mlh1 Deficiency Enhances Several Phenotypes of $Apc^{Min/+}$ Mice. Oncogene, 19: 2774-2779, 2000. PMID: 10851078. Free Article.

Cormier, R. T., and Dove, W. F. $Dnmt1^{N/+}$ Reduces the Net Growth Rate and Multiplicity of Intestinal Adenomas in C57BL/6-*Multiple Intestinal Neoplasia (Min)*/+ Mice Independently of *p53* but Demonstrates Strong Synergy with the *Modifier of Min 1*^{AKR} Resistance Allele. Cancer Res., 60: 3965-3970, 2000. PMID: 10919675. Free Article.

Cormier, R. T., Bilger, A., Lillich, A. J., Halberg, R. B., Hong, K. H., Gould, K. A., Borenstein, N., Lander, E. S., and Dove, W. F. The *Mom1*^{AKR} Intestinal Tumor Resistance Region Consists of *Pla2g2a* and a Locus Distal to *D4Mit64*. Oncogene, 19: 3182-3192, 2000. PMID: 10918573. Free Article.

Crow, J. F., and Dove, W. F. *Perspectives on Genetics*. The University of Wisconsin Press, 2000.

Crow, J. F. Encyclopedia of Genetics. Ed. S. Brenner and J. Miller, Academic Press, 2001, pp. 489-491. Commentary.

Techniques for Modeling Human Intestinal Cancer in Mice. The Jackson Laboratory, October 2000. Edited by: W. F. Dove, R. B. Halberg, L. Clipson, and I. L. Riegel. http://emice.nci.nih.gov/emice/contentfiles/emicePublicLFS/section2.doc

Hoff, P. D., Halberg, R. B., Shedlovsky, A., Dove, W. F., and Newton, M. A. Identifying Carriers of a Genetic Modifier Using Nonparametric Bayesian Methods. Case Studies in Bayesian Statistics, 5: 327-342, 2002.

Haigis, K. M., Caya, J. G., Reichelderfer, M., and Dove, W. F. Intestinal Adenomas Can Develop with a Stable Karyotype and Stable Microsatellites. Proc. Natl. Acad. Sci., U.S.A., 99: 8927-8931, 2002. PMID: 12060718. Free PMC Article.

Haigis, K. M., and Dove, W. F. A Robertsonian Translocation Suppresses a Somatic Recombination Pathway to Loss of Heterozygosity. Nat. Genet., 33(1): 33-39, 2003. PMID: 12447373.

Boivin, G. P., Washington, K., Yang, K., Ward, J. M., Pretlow, T. P., Russell, R., Besselsen, D. G., Godfrey, V. L., Doetschman, T., Dove, W. F., Pitot, H. C., Halberg, R. B., Itzkowitz, S. H., Groden, J., and Coffey, R. J. Pathology of Mouse Models of Intestinal Cancer: Consensus Report and Recommendations. Gastroenterology, 124: 762-777, 2003. PMID: 12612914.

Chen, X., Halberg, R. B., Ehrhardt, W. M., Torrealba, J., and Dove, W. F. Clusterin as a Biomarker in Murine and Human Intestinal Neoplasia. Proc. Natl. Acad. Sci., U.S.A., 100: 9530-9535, 2003. PMID: 12886021. Free PMC Article.

Dove, W. Aurora and the Hunt for Cancer-modifying Genes. Nat. Genet., 34: 353-354, 2003. https://www.nature.com/articles/ng0803-353 Commentary.

Haigis, K. M., Hoff, P. D., White, A., Shoemaker, A. R., Halberg, R. B., and Dove, W. F. Tumor Regionality in the Mouse Intestine Reflects the Mechanism of Loss of *Apc* Function. Proc. Natl. Acad. Sci., U.S.A., 101: 9769-9773, 2004. PMID: 15210940. Free PMC Article.

Austin, C. P., Battey, J. F., Bradley, A., Bucan, M., Capecchi, M., Collins, F. S., Dove, W. F., Duyk, G., Dymecki, S., Eppig, J. T., Grieder, F. B., Heintz, N., Hicks, G., Insel, T. R., Joyner, A., Koller, B. H., Lloyd, K. C. K., Magnuson, T., Moore, M. W., Nagy, A., Pollock, J. D., Roses, A. D., Sands, A. T., Seed, B., Skarnes, W. C., Snoddy, J., Soriano, P., Stewart, D. J., Stewart, F., Stillman, B., Varmus, H., Varticovski, L., Verma, I. M., Vogt, T. F., von Melchner, H., Witkowski, J., Woychik, R. P., Wurst, W., Yancopoulos, G. D., Young, S. G., and Zambrowicz, B. The Knockout Mouse Project. Nat. Genet., 36: 921-924, 2004. PMID: 15340423. Free PMC Article. Commentary.

Pickhardt, P. J., Halberg, R. B., Taylor, A. J., Durkee, B. Y., Fine, J., Lee, F. T., Jr., and Weichert, J. P. Microcomputed Tomography Colonography for Polyp Detection in an *in Vivo* Mouse Tumor Model. Proc. Natl. Acad. Sci., U.S.A., 102: 3419-3422, 2005. PMID: 15728368. Free PMC Article.

Thliveris, A. T., Halberg, R. B., Clipson, L., Dove, W. F., Sullivan, R., Washington, M. K., Stanhope, S., and Newton, M. A. Polyclonality of Familial Murine Adenomas: Analyses of Mouse Chimeras with Low Tumor Multiplicity Suggest Short-Range Interactions. Proc. Natl. Acad. Sci., U.S.A., 102: 6960-6965, 2005. PMID: 15870186. Free PMC Article.

Leedham, S. J., Thliveris, A. T., Halberg, R. B., Newton, M. A., and Wright, N. A. Gastrointestinal Stem Cells and Cancer: Bridging the Molecular Gap. Stem Cell Rev., 1: 233-241, 2005. PMID: 17142860.

Leedham, S. J., Schier, S., Thliveris, A. T., Halberg, R. B., Newton, M. A., and Wright, N. A. From Gene Mutations to Tumours – Stem Cells in Gastrointestinal Carcinogenesis. Cell Prolif., 38: 387-405, 2005. PMID: 16300652.

Bacher, J. W., Abdel Megid, W. M., Kent-First, M. G., and Halberg, R. B. Use of Mononucleotide Repeat Markers for Detection of Microsatellite Instability in Mouse Tumors. Mol. Carcinog., 44: 285-292, 2005. PMID: 16240453.

Newton, M. A., Clipson, L., Thliveris, A. T., and Halberg, R. B. A Statistical Test of the Hypothesis That Polyclonal Intestinal Tumors Arise by Random Collision of Initiated Clones. Biometrics, 62: 721-727, 2006. PMID: 16984313.

Newton, M. A. On Estimating the Polyclonal Fraction in Lineage-Marker Studies of Tumor Origin. Biostatistics, 7: 503-514, 2006. PMID: 16488894

Newton, M. A., and Hastie, D. I. Assessing Poisson Variation of Intestinal Tumour Multiplicity in Mice Carrying a Robertsonian Translocation. J. Royal Statist. Soc. Series C – Appl. Statist., 55: 123-138, 2006.

Wilkins, A. S., and Dove, W. F. Human Biology: An Ever-Expanding Subject. BioEssays, 28: 1146-1149, 2006. PMID: 17041909. Commentary.

Halberg, R. B., and Dove, W. F. Polyclonal Tumors in the Mammalian Intestine – Are Interactions Among Multiple Initiated Clones Necessary for Tumor Initiation, Growth, and Progression? Cell Cycle, 6: 44-51, 2007. PMID: 17245117. Free PMC Article.

Amos-Landgraf, J. M., Kwong, L. N., Kendziorski, C. M., Reichelderfer, M., Torrealba, J., Weichert, J., Haag, J. D., Chen, K.-S., Waller, J. L., Gould, M. N., and Dove, W. F. A Target-selected *Apc*-mutant Rat Kindred Enhances the Modeling of Familial Human Colon Cancer. Proc. Natl. Acad. Sci., USA, 104: 4036-4041, 2007. PMID: 17360473. Free PMC Article.

Kwong, L. N., Shedlovsky, A., Biehl, B. S., Clipson, L., Pasch, C. A., and Dove, W. F. Identification of *Mom7*, a Novel Modifier of $Apc^{Min/+}$ on Mouse Chromosome 18. Genetics, 176: 1237-1244, 2007. PMID: 17435219. Free PMC Article.

Kaiser, S., Park, Y., Franklin, J. L., Halberg, R. B., Yu, M., Jessen, W. J., Freudenberg, J., Chen, X., Haigis, K., Jegga, A., Kong, S., Sakthivel, B., Xu, H., Reichling, T., Azhar, M., Roberts, R. B., Bissahoyo, A. C., Gonzales, F., Bloom, G., Eschrich, S., Carter, S. L., Aronow, J. E., Kleimeyer, J., Kleimeyer, M., Ramaswamy, V., Settle, S. H., Boone, B., Levy, S., Graff, J. M., Doetschman, T., Groden, J., Dove, W. F., Threadgill, D. W., Yeatman, T., Coffey, R. J. Jr., and Aronow, B. J. Recapitulation of Embryonic Colon Transcriptional Patterns by Mouse Colon Tumor Models and Human Colorectal Cancer. Genome Biology 8:R131 , 2007. PMID: 17615082. Free PMC Article.

Megid, W. A., Ensenberger, M. G., Halberg, R. B., Stanhope, S. A., Kent-First, M. G., Prolla, T. A., and Bacher, J. W. A Novel Method for Biodosimetry. Radiat. Environ. Biophys., 46: 147-154, 2007. PMID: 17072633.

Kwong, K. N., Weiss, K. R., Haigis, K. M., and Dove, W. F. Atm Is a Negative Regulator of Intestinal Neoplasia. Oncogene 27:1013-1018, 2008. PMID: 18180384. Free PMC Article.

Chen, X., Ehrhardt, W. M., Halberg, R. B., Aronow, B., and Dove, W. F. Cellular expression patterns of genes upregulated in murine and human colonic neoplasia. J. Histochem. Cytochem. 56:433-441, 2008. PMID: 18180384. Free PMC Article.

Durkee, B. Y., Mudd, S. R., Roen, C. N., Clipson, L., Newton, M. A., Weichert, J. P., Pickhardt, P. J., Halberg, R. B. Reproducibility of tumor volume measurement at microCT colonography in living mice. Acad. Radiol. 15:334-41, 2008. PMID: 18280931.

Chen, X., Halberg, R. B., Burch, R. P., and Dove, W. F. Intestinal adenomagenesis involves core molecular signatures of the epithelial-mesenchymal transition. J. Mol. Histo. 39:283-94, 2008. PMID: 18327651. Free PMC Article.

Bilger, A., Sullivan, R., Prunuske, A. J., Clipson, L., Drinkwater, N., Dove, W. F. Widespread hyperplasia induced by transgenic TGFα in *Apc*^{Min} mice is associated with only regional effects on tumorigenesis. Carcinogenesis 29:1825-1830, 2008. PMID: 18310091. Free PMC Article.

Halberg, R. B., Campaign Larsen, M., Elmergreen, T. L., Ko, A. Y., Irving, A. A., Clipson, L. and Jefcoate, C. R. Cyp1b1 exerts opposing effects on intestinal tumorigenesis via exogenous and endogenous substrates. Cancer Research 68:7394-7401, 2008. PMID: 18794127.

Halberg, R. B., Chen, X., Amos-Landgraf, J. M., White, A., Rasmussen, K., Clipson, L., Pasch, C., Sullivan, R., Pitot, H. C. and Dove, W. F. The pleiotropic phenotype of *Apc* mutations in the mouse – allele specificity and effects of the genetic background. Genetics 180:601-609, 2008. PMID: 18723878. Free PMC Article.

Dove WF, Amos-Landgraf JM, Chen X, Kwong LN, Clipson L, Halberg RB. Basic and applied issues in colon cancer studied in the Min mouse and Pirc rat kindreds. In: Extended Abstracts for the 38th International Symposium of the Princess Takamatsu Cancer Research Fund: Current Challenges in the Understanding and Management of Colon Cancer. Edited by Nakagama H, Dove WF, Mori H, Wakabayashi K. 2007. Commentary.

Halberg RB, Waggoner J, Rasmussen K, White A, Clipson L, Prunuske AJ, Bacher JW, Sullivan R, Washington MK, Pitot HC, Petrini JH, Albertson DG, Dove WF. Long-lived Min mice develop advanced intestinal cancers through a genetically conservative pathway. Cancer Res. 69:5768-75, 2009. PMID: 19584276. Free PMC Article.

Kwong LN and Dove WF. The APC gene and its modifiers in human and murine colon cancer. Adv Exp Med Biol 656:85-106, 2009. (Also cited as: In APC Proteins, edited by Inke Nathke and Brooke McCartney. Austin: Landes Bioscience; New York: Springer Science+Business Media. 2009.) PMID: 19928355. Free PMC Article. Commentary.

Huttlin EL, Chen X, Barrett-Wilt GA, Hegeman AD, Halberg RB, Harms AC, Newton MA, Dove WF, Sussman MR. Discovery and validation of colonic tumor-associated proteins via metabolic labeling and stable isotopic dilution. Proc Natl Acad Sci U S A. 106:17235-40, 2009. PMID: 19805096. Free PMC Article.

Durkee BY, Shinki K, Newton MA, Iverson C, Weichert J, Dove WF, Halberg RB. Longitudinal assessment of colonic tumor fate in mice by computed tomography and optical colonoscopy. Academic Radiology 16:1475-82, 2009. PMID: 19896065. Free PMC Article.

Thliveris AT, Clipson L, White A, Waggoner J, Plesh L, Skinner BL, Zahm CD, Sullivan R, Dove WF, Newton MA, Halberg RB. Clonal structure of carcinogen-induced intestinal tumors in mice. Cancer Prev Res (Phila) 4:916-23, 2011. PMID: 21636550. Free PMC Article.

Irving AA, Halberg RB, Albrecht DM, Plum LA, Krentz KJ, Clipson L, Drinkwater N, Amos-Landgraf JM, Dove WF, DeLuca HF. Supplementation by vitamin D compounds does not affect tumor development in vitamin D sufficient murine models. Archives of Biochemistry and Biophysics 515:64-71, 2011. PMID: 21907701. Free PMC Article.

Boutwell RK, Burgess RR, Dove W, Pitot HC. On the passing of Gerald C. Mueller, MD, PhD (1920–2010). Cancer Res. 71:6909-10, 2011. PMID: 22167827.

Amos-Landgraf JM, Irving AA, Hartman C, Hunter A, Laube B, Chen X, Clipson L, Newton MA, Dove WF. Monoallelic silencing and haploinsufficiency in early murine intestinal neoplasms. Proc Natl Acad Sci U S A 109:2060-5, 2012. PMID: 22308460. Free PMC Article.

Dove W, Susman M. Retrospective. James F. Crow (1916-2012). Science 335:812, 2012. PMID: 22344436.

Amos-Landgraf JM, Clipson L, Newton MA, Dove WF. The many ways to open the gate to colon cancer. Cell Cycle 11:1261-2, 2012. PMID: 22421162. Free PMC Article. Commentary.

Thliveris AT, Clipson L, Sommer LL, Schoenike BA, Hasenstein JR, Schlamp CL, Alexander CM, Newton MA, Dove WF, Amos-Landgraf JM. Regulated expression of *Chromobox Homolog 5* revealed in tumors of *Apc*$^{Min/+}$ ROSA11 gene trap mice. G3 2:569-578, 2012. PMID: 22670227. Free PMC Article.

Washington MK, Powell AE, Sullivan R, Sundberg JP, Wright N, Coffey RJ, Dove WF. Pathology of rodent models of intestinal cancer: progress report and recommendations. Gastroenterology 144:705-17, 2013. PMID: 23415801. Free PMC Article.

Dove W and Shedlovsky A. From MRC-Cambridge to Madison, Wisconsin. In *Memories and Consequences: Visiting Scientists at the MRC Laboratory of Molecular Biology, Cambridge*. Published by the Medical Research Council, Laboratory of Molecular Biology, Cambridge, UK, 2013. Commentary.

Thliveris AT, Schwefel B, Clipson L, Plesh L, Zahm CD, Leystra AA, Washington MK, Sullivan R, Deming DA, Newton MA, Halberg RB. Transformation of epithelial cells through recruitment leads to polyclonal intestinal tumors. Proc Natl Acad Sci USA 110:11523-8, 2013. PMID: 23798428. Free PMC Article.

Pickhardt PJ, Kim DH, Pooler BD, Hinshaw JL, Barlow D, Jensen D, Reichelderfer M, Cash BD. Assessment of volumetric growth rates of small colorectal polyps with CT colonography: a longitudinal study of natural history. Lancet Oncol 14:711-29, 2013. PMID: 23746988. Free PMC Article.

Ivancic MM, Huttlin EL, Chen X, Pleiman JK, Irving AA, Hegeman AD, Dove WF, Sussman MR. Candidate serum biomarkers for early intestinal cancer using ^{15}N metabolic labeling and quantitative proteomics in the *Apc*$^{Min/+}$ mouse. J Proteome Res 12:4152-66, 2013. PMID: 23924158. Free PMC Article.

Irving AA, Young LB, Pleiman JK, Konrath MJ, Marzella B, Nonte M, Cacciatore J, Ford MR, Clipson L, Amos-Landgraf JM, Dove WF. A simple, quantitative method using alginate gel to determine rat colonic tumor volume in vivo. Comp Med. 64:128-34, 2014. PMID: 24674588. Free PMC Article.

Dove WF, Shedlovsky A, Clipson L, Amos-Landgraf JM, Halberg RB, Krentz KJ, Boehm FJ, Newton MA, Adams DJ, Keane TM. A Strategy To Identify Dominant Point Mutant Modifiers of a Quantitative Trait. G3 (Bethesda). 2014 Apr 21. [Epub ahead of print] PMID: 24747760. Free PMC Article.

Dove W. and Shedlovsky A. François Jacob – The Rest of the Story. Research in Microbiology 165:362-4, 2014 PMID: 24853971. Commentary.

Ivancic MM, Irving AA, Jonakin KG, Dove WF, Sussman MR. The Concentrations of EGFR, LRG1, ITIH4, and F5 in Serum Correlate with the Number of Colonic Adenomas in Apc$^{Pirc/+}$ Rats. Cancer Prev Res (Phila).7:1160-9, 2014. PMID: 25200834. Free PMC Article.

Irving AA, Yoshimi K, Hart ML, Parker T, Clipson L, Ford MR, Kuramoto T, Dove WF, Amos-Landgraf JM. The utility of Apc-mutant rats in modeling human colon cancer. Dis Model Mech. 7:1215-1225, 2014. PMID: 25288683. Free PMC Article.

Amos-Landgraf JM, Heijmans J, Wielenga MC, Dunkin E, Krentz KJ, Clipson L, Ederveen AG, Groothuis PG, Mosselman S, Muncan V, Hommes DW, Shedlovsky A, Dove WF, van den Brink GR. Sex disparity in colonic adenomagenesis involves promotion by male hormones, not protection by female hormones. Proc Natl Acad Sci U S A. 111(46):16514-9, 2014. PMID: 25368192. Free PMC Article.

Dove WF. "Foreword." Guenet JL, Benavides F, Panthier J-J, Montagutelli X (authors). *Genetics of the Mouse*. Springer, 2015. Vii-viii. Commentary.

Irving AA, Plum LA, Blaser WJ, Ford MR, Weng C, Clipson L, DeLuca HF, Dove WF. Cholecalciferol or 25-Hydroxycholecalciferol Neither Prevents nor Treats Adenomas in a Rat Model of Familial Colon Cancer. J. Nutr. February 145(2):291-8, 2015. PMID: 25644350. Free PMC Article.

Sievers CK, Leystra AA, Clipson L, Dove WF, Halberg RB. Understanding Intratumoral Heterogeneity: Lessons from the Analysis of At-Risk Tissue and Premalignant Lesions in the Colon. Cancer Prev Res (Phila) 9(8):638-41, 2016. PMID: 27199343. Free PMC Article.

Dove WF. Weaving a Tapestry from Threads Spun by Geneticists: The Series Perspectives on Genetics, 1987-2008. Genetics 203(3):1011-22, 2016. PMID: 27384024. Free PMC Article.

Pleiman JK, Irving AA, Wang Z, Toraason E, Clipson L, Dove WF, Deming DA, Newton MA. The conserved protective cyclic AMP-phosphodiesterase function PDE4B is expressed in the adenoma and adjacent normal colonic epithelium of mammals and silenced in colorectal cancer. PLoS Genet. 14(9):e1007611, 2018. PMID: 30188895. Free PMC Article.

Ivancic MM, Anson LW, Pickhardt PJ, Megna B, Pooler BD, Clipson L, Reichelderfer M, Sussman MR, Dove WF. Conserved serum protein biomarkers associated with growing early colorectal adenomas. Proc Natl Acad Sci U S A. 116(17):8471-8480, 2019. PMID: 30971492. Free Article.