

Exhibit A

DR. HARVEY F. LODISH

CURRICULUM VITAE

DATE AND PLACE OF BIRTH: November 16, 1941 - Cleveland, Ohio

CITIZENSHIP: U.S. CITIZEN

SOCIAL SECURITY NUMBER: 294-36-1951

EDUCATION: 1959-1962 Kenyon College, Gambier, Ohio, A.B., Summa cum laude. Highest Honors in Chemistry and Mathematics

1962-1966 The Rockefeller University, New York, New York; Ph.D. received in 1966

POSITIONS HELD:

1958-1960 (summers) Research Assistant, Case Western Reserve University School of Medicine, Cleveland, Ohio

1961 Research Assistant, Stanford University, Department of Chemistry, Stanford, California

1962-1966 Graduate student, The Rockefeller University, New York, New York

1966-1968 Post-doctoral Fellow, Medical Research Council Laboratory of Molecular Biology, Cambridge, England

1968-1971 Assistant Professor of Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts

1971-1976 Associate Professor of Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts

1976-present Professor of Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts

1977-1978 Visiting Scientist, Imperial Cancer Research Fund, Lincoln's Inn Fields, London, England

1982-present Member, Whitehead Institute for Biomedical Research

1994-present Associate Member, M. I. T. Cancer Center

1999- present Professor of Bioengineering, Division of Biological Engineering, Massachusetts Institute of Technology

HONORS: 1961 Phi Beta Kappa

- 1962-1966 Rockefeller Institute Fellowship
- 1966-1968 American Cancer Society Postdoctoral Fellowship
- 1971-1975 National Institutes of Health Research Career Development Award
- 1977 John Simon Guggenheim Memorial Fellowship
- 1982 D.Sc. (honorary) Kenyon College
- 1986 Fellow, American Association for the Advancement of Science
- 1987 Elected to Membership, National Academy of Sciences
- 1989 American Diabetes Association William C. Stadie Award
- 2000 Fellow, American Academy of Microbiology
- 1996 Associate Member, European Molecular Biology Organization (EMBO)
- 1997 Establishment of the Harvey F. Lodish Award for Service at the Whitehead Institute
- 1997 Fellow, American Academy of Arts and Sciences
- 1999 Establishment of the Harvey F. Lodish Career Development Chair in the Sciences at Kenyon College
- 2000-2003 Chair, Section 22, Cellular and Developmental Biology, National Academy of Sciences
- 2002, 2003 Nominating Committee, National Academy of Sciences
- 2004 President, American Society for Cell Biology
2003, President- Elect
2005, Past President
- 2007 Chair, Nominating Committee, American Society for Cell Biology

SOCIETIES:

- Sigma Xi
- American Chemical Society
- American Association for the Advancement of Science

American Society for Microbiology

American Society of Biochemistry and Molecular Biology

American Society for Cell Biology

President, 2004

President- Elect, 2003

American Diabetes Association

American Society of Hematology

ENDOWED/ NAMED LECTURESHIPS:

- 1984 Robert and Ester Stadler Lecture, M.D. Anderson Hospital, Texas
- 1984 Richard Fineberg Memorial Lecture, U. California, San Francisco Medical Center
- 1986 Jacobs-Parpart-Ponder Memorial Lecture, Red Cell Club/Biophysics Society, San Francisco
- 1986 Harvey Society Lecture
- 1986 State of the Art Lecture, annual meeting of the American Society of Nephrology
- 1987 John Muntz Memorial Lecture and Award, Albany Medical College
- 1987 Plenary Lecture, annual meeting of the American Society for Clinical Investigation
- 1987 Jeanette Piperno Memorial Award and Lecture, Temple University, School of Medicine
- 1987 University Lecture, University of Texas Medical Center, Dallas
- 1987 Barton Lecture, University of Oklahoma, Norman
- 1988 Novo Foundation Lecturer, University of Copenhagen
- 1989 Stadie Lecture, American Diabetes Association Philadelphia Affiliate
- 1989 Philips Lecturer, Haverford College
- 1989 Green Lecturer, European Molecular Biology Laboratory
- 1989 Piché Lecture, McGill University and Université de Montreal

- 1989 Staples Visiting Professor, University of Maine
- 1990 Wellcome Foundation Visiting Professor, University of Oregon Health Sciences Center
- 1990 Massachusetts Biotechnology Council Lecturer, American Chemical Society Annual Meeting, Boston
- 1990 Visiting Professor, University of Wyoming
- 1990 Hirschmann Lecturer, Oberlin College
- 1991 Keynote Endowment Award Lecture, University of Maryland
- 1991 Roerig Visiting Professor in Diabetes, University of Washington
- 1991 Plenary Lecture, American Society of Hematology
- 1992 Plenary Lecture, Serono Symposium on Cell Biology and Biotechnology
- 1992 Presidential Symposium speaker, 24th Congress of the International Society of Hematology, London
- 1992 Berson Memorial Lecture, Ninth International Congress of Endocrinology, Nice
- 1992 Plenary Lecture, Ninth International Biotechnology Symposium and Exposition, Crystal City, Virginia
- 1993 Plenary Lecture, International Society for Experimental Hematology, Rotterdam
- 1993 Distinguished Lecturer in the Medical Sciences Series, Mayo Clinic/ Mayo Foundation, Rochester, Minnesota
- 1994 Sackler Visiting Lecturer, Sackler Institute of Advanced Studies, Tel Aviv University, Israel
- 1994 Address, Presentation Ceremony, Rosenstiel Awards, Brandeis University
- 1994 16th annual Jim McGinnis Memorial Lecture, Duke University, North Carolina
- 1994 Sigma Xi Lecturer, University of South Dakota School of Medicine
- 1994 Harry Eagle Memorial Lecturer, Albert Einstein College of Medicine

- 1995 Keynote address, FASEB Summer Research Conference, Snowmass, Colorado
- 1995 Keynote Lecture, Howard Hughes Medical Institute, Undergraduate Program Directors Meeting
- 1996 Distinguished Lecturer, Harvard School of Public Health
- 1996 Plenary Lecture, International Symposium on Insulin Receptors and Insulin Action, Copenhagen, Denmark
- 1996 Keynote address, 14th Meeting of the European Society for Animal Cell Technology, Vilamoura, Portugal
- 1997 Honors Lecture, New York University School of Medicine
- 1997 Keynote Lecture, International Cytokine Symposium, Lake Tahoe, Nevada
- 1997 Keynote Lecture, Opening of Astra Research Center Montreal
- 1997 Keynote Lecture, Opening of Novo Nordisk Research Center, Beijing
- 1998 Keynote Lecture, Annual Meeting of the Swiss Societies for Experimental Biology
- 1998 First Howard Hughes Medical Institute Lecture, Kenyon College
- 1998 Keynote Lecture, Nature Biotechnology Conference “Pharmaco-Genesis: Postgenomic Drug Discovery Through Developmental Biology”
- 1998 Director’s Lecture, National Institutes of Health, Bethesda, MD
- 1998 Keynote Address, 15th Annual Student Research Forum, Oregon Health Sciences University
- 1999 Robert Wong Visiting Professor, John A. Burns School of Medicine, University of Hawaii at Manoa
- 1999 Keynote Lecture, Phage Display, Novel Therapeutics and Diagnostics, Boston, MA
- 1999 “Horizon” Lecture, Lerner Research Institute, Cleveland Clinic, Cleveland OH
- 1999 Alexander and Helena Schonfeld Lecture in Medicine, Washington University School of Medicine, St. Louis, MO
- 2001 Keynote address, Yale University Graduate Student Research

Symposium

- 2001 Distinguished Lecturer, Harvard School of Public Health
- 2001 Graduate Student Distinguished Lecturer, Louisiana Health Sciences Center, Shreveport
- 2001 Physiology and Biophysics Distinguished Seminar, University of Iowa Medical Center
- 2001 Bashour Distinguished Lecture, U. Texas Southwestern Medical School, Dallas
- 2002 Hugh Davson Lecture, FASEB Meeting
- 2002 Keynote lectures, the 75th Annual Meeting of the Japan Endocrine Society, Osaka
- 2002 Keynote lecture, Society of General Physiologists Woods Hole Conference on Cell Biology of Membrane Transport Proteins
- 2002 Dean's Lecture; Mt. Sinai School of Medicine, New York
- 2002 Rachford Lecture, University of Cincinnati Medical School
- 2002 Frontiers in Biology Lecture, Stanford University Medical School
- 2003 Biomedical Research Council Distinguished Visitor, Economic Development Board and Biomedical Research Council, Government of Singapore
- 2003 Plenary Lecture, Fourth Combined Scientific Meeting, National University of Singapore
- 2003 Keynote Lecture, First meeting of the Society for Adipocytokine Research, Tokyo
- 2003 Keynote Lecture, Graduate Student Research Day, Wayne State University, Detroit MI
- 2004 Plenary Lecture, American Diabetes Association Annual Meeting, Orlando
- 2004 Plenary Lecture, joint meeting of the International Cytokine Society and the International Society for Interferon and Cytokine Research, San Juan, Puerto Rico
- 2005 Keynote lecturer, University of Maryland Baltimore Graduate School Symposium
- 2005 Pritchett Lecture, The University of Alabama at Birmingham

- 2005 Dean's Distinguished Seminar speaker, University of Colorado School of Medicine, Denver
- 2005 Stan Gill Memorial Lecture, University of Colorado, Boulder
- 2005 Plenary Lecture, First Annual Scientific Meeting, Asian-Pacific Diabetes and Obesity Study Group, Kobe, Japan
- 2005 Plenary Lecture, 10th Adiposcience Symposium, Osaka, Japan
- 2005 Keynote Lecture, Albion Science Symposium, Albion College, Albion MI
- 2005 Danny Thomas Lecture, St. Jude Medical Center, Memphis TN
- 2005 Distinguished Lecturer, National Jewish Medical and Research Center, Denver, CO
- 2005 Dean's Distinguished Lecturer, University of Arkansas Medical Center, Little Rock
- 2005 Dean's Distinguished Lecturer, Georgetown University Medical School, Washington DC
- 2006 Choh Hao Li Memorial Lecture, Academia Sinica, Taipei, Taiwan
- 2006 Keynote Lecture, ASME 2006 Summer Bioengineering Conference, Amelia Island, FL
- 2006 First Distinguished Lecturer, National University of Singapore Office of Life Sciences
- 2006 Keynote Lecture, Korean Society for the Study of Obesity, Seoul
- 2006 Leukaemia Research Fund Annual Guest Lecture, London UK
- 2006 Heremans Memorial Lecture, Christian de Duve Institute of Cellular Pathology and the University Catholic of Louvain, Brussels

EDITORIAL BOARDS:

- 1974-1980 and 1982-1987 Journal of Biological Chemistry
- 1974-1977 Journal of Cell Biology
- 1976-1988 Nucleic Acids Research
- 1978-1987 Journal of Supramolecular Structure (now Journal of Cellular Biochemistry)
- 1979-1987 Virology
- 1980-1981 Associate Editor; Molecular and Cellular Biology
- 1982-1987 Editor; Molecular and Cellular Biology

- 1984-1991 CRC Critical Reviews in Biochemistry
- 1991-1999 Science, Board of Reviewing Editors
- 1996- 2000 Editorial Board, Proceedings of the National Academy of Sciences

GRANT REVIEW PANELS:

- 1972-1975 National Science Foundation Advisory Panel in Developmental and Cellular Biology
- 1976 Special National Institutes of Health Study Section on Diseases Affecting Hemoglobin Synthesis
- 1978-1982 American Cancer Society Study Section on Nucleic Acid and Protein Synthesis
- 1979-1983 Scientific Advisory Committee, Medical Foundation
- 1986 Chairman, National Heart, Lung, and Blood Institute Special Review Committee: Molecular Characterization of Ion Channels in the Myocardial Sarcolemma
- 1986 Cystic Fibrosis Foundation Study Section, September
- 1987 Scientific Advisory Committee, Damon Runyon-Walter Winchell Cancer Fund
- 1989 Special Study Section; National Heart, Lung and Blood Institute Review Panel: Program of Excellence in Molecular Biology
- 1989-1991 NIH Cellular Biology and Physiology Study Section
- 2000 *ad hoc* Member, NIH Cellular Metabolism Study Section

MEETING ORGANIZATION:

- 1975 Gordon Research Conference on Animal Cells and Viruses, Vice Chairperson
- 1976 Gordon Research Conference on Animal Cells and Viruses, Chairperson
- 1976 Co-organizer: Dictyostelium meeting at Cold Spring Harbor Laboratories, May 12-15
- 1984 Co-chairman, National Heart, Lung, and Blood Institute Symposium: Frontiers in Basic Sciences, the Plasma Membrane

- 1985 Co-chairman, Gordon Research Conference on Red Blood Cells
- 1985 Co-organizer, Whitehead Institute Symposium: Cell Receptors
- 1988 Co-organizer, Whitehead Institute Symposium: Molecular Neurobiology
- 1988 Co-organizer, National Institute of Diabetes and Digestive and Kidney Diseases Colloquium: Gene Regulation and Cellular Signaling in Diabetes
- 1989 Chairman, Gordon Research Conference on Membrane Molecular Biology
- 1991 Organizer, Technology Day, M.I.T. "The impact of molecular biology on human health"
- 1992 Co-organizer, Whitehead Institute Symposium: Cell Interactions in Development and Disease
- 1992 Symposium chairman, American Society of Cell Biologists Annual Meeting: Cell Surface Receptors Controlling Cell Proliferation and Differentiation
- 1993 Chairman, M.I.T. Biotechnology Process Engineering Center Workshop: New Strategies for Cloning Mammalian Proteins
- 1995 Co-organizer, Whitehead Institute Symposium: Signal Transduction
- 1999 Co-organizer, Whitehead Institute Symposium: The Biology of Drug Discovery
- 2000 Co-organizer, Whitehead Institute Symposium: Molecular Machines
- 2005 Co-organizer, NIDDK Workshop on Stem Cell Niches
- 2005 Chair, Whitehead Institute Symposium: Cell Signaling: Switches, Connectors, and Circuits

OUTSIDE ADVISORY COMMITTEES:

- 1976-1977 NIAID Virology Task Force
- 1977-present Consulting Scientist in Medicine (Hematology/Oncology) Children's Hospital Medical Center, Boston.
- 1977-present Consulting Scientist in Pediatric Oncology, Dana-Farber Cancer Institute.
- 1977-1982 Scientific Advisory Committee of the Dana-Farber Cancer Institute
- 1979 and 1986 Nominating Committee, American Society of Biological Chemists

- 1982 Advisory Panel, Department of Biochemistry, University of Pennsylvania Medical School
- 1982 Advisory Panel, Department of Physiology, Case Western Reserve University Medical School
- 1983-1985 Council - American Society of Cell Biology
- 1983-1986 Chairman, Constitution and By-Laws Committee -American Society of Cell Biology
- 1985-1991 Advisory Board, Children's Hospital Medical Center Clinical Research Center, Boston.
- 1986-1996 Advisory Board, Center for Gastroenterology Research on Absorptive and Secretory Processes, Tufts-New England Medical Center, Boston
- 1986-1999 Scientific Advisory Board, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, Seattle
- 1988-1999 Chair of Scientific Advisory Board, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, Seattle
- 1986-1991 Scientific Advisory Board, Biozentrum, Universitat Basle, Basle, Switzerland
- 1988-1993 Scientific Advisory Committee, European Molecular Biology Laboratory, Heidelberg
- 1988-1997 Advisory Committee Member, PEW Scholars Program in Biomedical Sciences
- 1989-present Board of Trustees, Kenyon College
(Executive Committee 2003 – present)
- 1989-2001 International Advisory Committee, National Laboratory of Biomolecules, Beijing, P.R.C.
- 1991-present Scientific Advisory Board, Cystic Fibrosis Center, Case Western Reserve Medical School, Cleveland
- 1991-1992 Chairman, International Panel for Evaluation of Danish Research in Biochemistry, Denmark.
- 1992 Biology Department Visiting Committee, Haverford College, Haverford

- 1992-2002 Advisory Board, Cleveland Clinic Research Institute, Cleveland (Chair 1992 – 1996)
- 1993-1997 Advisory Board, Rosenstiel Award, Rosenstiel Center, Brandeis University
- 1996 - 2002 Scientific Advisory Board, ZMBH (Center for Molecular Biology Heidelberg) Heidelberg, Germany
- 1997 - present Board of Trustees, Massachusetts Eye and Ear Infirmary, Boston
- 1998 - 2000 Scientific Advisory Board, Institute for Human Nutrition, Columbia University College of Physicians and Surgeons
- 1999 – 2002 External Evaluation Board, BioCenter Oulu, University of Oulu, Finland
- 1999 - present Visiting Committee, Division of Biology, California Institute of Technology
- 2001 Workshop on Future Directions of Biochemical Engineering, Bioengineering and Environmental Systems Division, National Science Foundation
- 2002 Visiting Committee, Beth Israel Deaconess Medical Center, Boston MA
- 2002 – 2005 Advisory Board, Life Sciences Institute, University of Michigan
- 2003 – 2008 Scientific Advisory Board, Children’s Hospital, Boston
Chair 2004 – 2008
- 2004 - 2008 Board of Trustees Research Committee, Children’s Hospital, Boston
- 2005 – 2006 National Advisory Board, College of Engineering of the University of California, Santa Barbara
- 2006 - 2009 Board of Trustees, Children’s Hospital, Boston

PUBLICATIONS OF DR. HARVEY F. LODISH

1961

1. Eckel, R.E. and H.F. Lodish. Metabolism during potassium transport in human red cell. J. Clin. Invest. **40**: 1035-1036 (1961).

1962

2. Djerassi, C., T. George, N. Finch, H.F. Lodish, H. Budzikiewicz and B. Gilbert. Mass spectrometry in structural and stereochemical problems V. Refractine and Aspidofractine. J. Am. Chem. Soc. **84**: 1499-1501 (1962).

1964

3. Lodish, H.F., S. Cooper and N.D. Zinder. Host-dependent mutants of the bacteriophage f2 IV. On the biosynthesis of a viral RNA polymerase. Virology **24**: 60-70 (1964)

1965

4. Lodish, H.F. and N.D. Zinder. Attachment of f2 bacteriophage to cellulose nitrate filters. Biochem. Biophys. Res. Commun. **19**: 269-278 (1965).
5. Lodish, H.F., K. Horiuchi and N.D. Zinder. Mutants of the bacteriophage f2 V. On the production of noninfectious phage particles. Virology **27**: 139-155 (1965).

1966

6. Horiuchi, K., H.F. Lodish and N.D. Zinder. Mutants of the bacteriophage f2 VI. Homology of temperature-sensitive and host-dependent mutants.
7. Lodish, H.F. and N.D. Zinder. Replication of the RNA of bacteriophage f2. Science **152**: 372-378 (1966).
8. Lodish, H.F. The mechanism and control of replication of the RNA containing bacteriophage f2. Ph.D. thesis, The Rockefeller University, New York, NY (1966).
9. Lodish, H.F. and N.D. Zinder. Mutants of the bacteriophage f2 VIII. Control mechanisms for phage-specific synthesis. J. Mol. Biol. **19**: 333-348 (1966).
10. Lodish, H.F. and N.D. Zinder. Semi-conservative replication of bacteriophage f2 RNA. J. Mol. Biol. **21**: 207-209 (1966).
11. Eckel, R.E., S.C. Rizzo, H.F. Lodish and A.B. Berggren. Potassium transport and control of glycolysis in human erythrocytes. Amer. J. Phys. **210**: 737-743 (1966)

1968

12. Lodish, H.F. Polar effects of an amber mutation in f2 bacteriophage. J. Mol. Biol. **32**: 47-58 (1968).

13. Lodish, H.F. Independent translation of the genes of bacteriophage f2 RNA. J. Mol. Biol. 32: 681-685 (1968).
14. Lodish, H.F. Bacteriophage f2 RNA: Control of translation and gene order. Nature 220: 345-349 (1968).
15. Lodish, H.F. The replication of RNA-containing bacteriophages. In: *Progress in Biophysics and Molecular Biology*, (J.A.V. Butler and D. Novel, eds.) Vol. 18, Pergamon Press, New York, pp. 285-312 (1968).

1969

16. Lodish, H.F. and H.D. Robertson. Cell-free synthesis of bacteriophage f2 maturation protein. J. Mol. Biol. 45: 9-22 (1969).
17. Lodish, H.F. Species specificity of polypeptide chain initiation. Nature 224: 867-870 (1969).
18. Lodish, H.F. Independent initiation of translation of two bacteriophage f2 proteins. Biochem. Biophys. Res. Commun. 37: 127-136 (1969).
19. Lodish, H.F. and H.D. Robertson. Regulation of in vitro translation of bacteriophage f2 RNA. Cold Spring Harbor Symp. 34: 655-673 (1969).
20. Rekosh, D., H.F. Lodish and D. Baltimore. Translation of poliovirus RNA by an E. coli cell-free system. Cold Spring Harbor Symp. Quant. Biol. 34: 747-751 (1969).

1970

21. Lodish, H.F. Specificity in bacterial protein synthesis: Role of initiation factors and ribosomal subunits. Nature 226: 705-707 (1970).
22. Lodish, H.F. Secondary structure of bacteriophage f2 ribonucleic acid and the initiation of in vitro protein biosynthesis. J. Mol. Biol. 50: 689-702 (1970).
23. Robertson, H.D. and H.F. Lodish. Messenger characteristics of nascent bacteriophage RNA. Proc. Natl. Acad. Sci. USA 67: 710-716 (1970).
24. Housman, D., M. Jacobs-Lorena, U.L. RajBhandary and H.F. Lodish. Initiation of haemoglobin synthesis by methionyl-tRNA. Nature 227: 913-918 (1970).
25. Osborn, M., K. Weber and H.F. Lodish. Amino terminal peptides of RNA phage proteins synthesized in the cell free system. Biochem. Biophys. Res. Commun. 41: 748-756 (1970).
26. Rekosh, D., H.F. Lodish and D. Baltimore. Protein synthesis in Escherichia coli extracts programmed by poliovirus RNA. J. Mol. Biol. 54: 327-340 (1970).

1971

27. Lodish, H.F. Thermal melting of bacteriophage f2 RNA and initiation of synthesis of the maturation protein. J. Mol. Biol. 56: 627-632 (1971).
28. Lodish, H.F., D. Housman and M. Jacobsen. Initiation of hemoglobin synthesis. Specific inhibition by antibiotics and bacteriophage ribonucleic acid. Biochem. 10: 2348-2356 (1971).
29. Smilowitz, H., H.F. Lodish and P.W. Robbins. Synthesis of the major bacteriophage f1 coat protein. J. Virol. 7: 776-782 (1971).
30. Goldman, E. and H.F. Lodish. Inhibition of replication of ribonucleic acid bacteriophage f2 by superinfection with bacteriophage T4. J. Virol. 8: 417-429 (1971).
31. Nathan, D.G., H. F. Lodish, Y. W. Kan and D. Housman. Beta-thalassemia and translation of globin messenger RNA. Proc. Natl. Acad. Sci. USA 68: 2514-2518 (1971).
32. Lodish, H.F. Alpha and beta globin messenger ribonucleic acid. Different amounts and rates of initiation of translation. J. Biol. Chem. 246: 7131-7138 (1971).

1972

33. Housman, D., D. Gillespie and H.F. Lodish. Removal of formyl-methionine residue from nascent bacteriophage f2 protein. J. Mol. Biol. 65: 163-166 (1972).
34. Pemberton, R.E., D. Housman, H.F. Lodish and C. Baglioni. Isolation of duck haemoglobin messenger RNA and its translation by rabbit reticulocyte cell free system. Nature New Biol. 235: 99-102 (1972).
35. Goldman, E. and H.F. Lodish. Specificity of protein synthesis by bacterial ribosomes and initiation factors: Absence of change after phage T4 infection. J. Mol. Biol. 67: 35-47 (1972).
36. Lodish, H.F. and M. Jacobsen. Regulation of hemoglobin synthesis: Equal rates of translation and termination of a- and b-globin chains. J. Biol. Chem. 247: 3622-3629 (1972).
37. Kan, Y.W., D.G. Nathan and H.F. Lodish. Equal synthesis of a- and b- globin chains in erythroid precursors in heterozygous b-thalassemia. J. Clin. Invest. 51: 1906-1909 (1972).
38. Lodish, H.F. and A. Jacobson. Translational control of protein synthesis in eucaryotic cells: Is there tissue or species specificity of the translational apparatus? Devel. Biol. 27: 283-285 (1972).
39. Firtel, R.A., A. Jacobson and H.F. Lodish. Isolation and hybridization kinetics of messenger RNA from Dictyostelium discoideum. Nature New Biol. 239: 225-228 (1972).
40. McDowell, M.J., W.K. Joklik, L. Villa-Komaroff and H.F. Lodish. Translation of retrovirus messenger RNAs synthesized in vitro into reovirus polypeptides by several mammalian cell-free extracts. Proc. Natl. Acad. Sci. USA 69: 2649-2653 (1972).

41. Lodish, H.F. and D.G. Nathan. Regulation of hemoglobin synthesis. Preferential inhibition of α and β globin synthesis. J. Biol. Chem. 247: 7822-7829 (1972).

1973

42. Morrison, T.G. and H.F. Lodish. Translation of bacteriophage Q β RNA by cytoplasmic extracts of mammalian cells. Proc. Natl. Acad. Sci. USA 70: 315-319 (1973).
43. Lodish, H.F. and O. Desalu. Regulation of synthesis of non-globin proteins in cell-free extracts of rabbit reticulocytes. J. Biol. Chem. 248: 3520-3527 (1973).
44. Lodish, H.F. Biosynthesis of reticulocyte membrane proteins by membrane-free polyribosomes. Proc. Natl. Acad. Sci. USA 70: 1526-1530 (1973).
45. Jacobson, A. and H.F. Lodish. A simple and inexpensive procedure for preparative polyacrylamide gel electrophoresis of RNA. Analytical Biochem. 54: 513-517 (1973).
46. Goldman, E. and H.F. Lodish. T4 phage and T4 ghosts inhibit ϕ 2 phage replication by different mechanisms. J. Mol. Biol. 74: 151-161 (1973).
47. Firtel, R.A. and H.F. Lodish. A small nuclear precursor of messenger RNA in the cellular slime mold Dictyostelium discoideum. J. Mol. Biol. 79: 295-314 (1973).
48. Firtel, R.A., L. Baxter and H.F. Lodish. Actinomycin D and the regulation of enzyme biosynthesis during development of Dictyostelium discoideum. J. Mol. Biol. 79: 315-327 (1973).
49. Lodish, H.F., R.A. Firtel and A. Jacobson. Transcription and structure of the genome of the cellular slime mold Dictyostelium discoideum. Cold Spring Harbor Symp. Quant. Biol. 38: 899-914 (1973).

1974

50. Villa-Komaroff, L., M. McDowell, D. Baltimore and H.F. Lodish. Translation of reovirus mRNA, and bacteriophage Q β RNA in cell-free extracts of mammalian cells. Methods In Enzymology 30: 709-723 (1974).
51. Cividalli, G., D.G. Nathan and H.F. Lodish. Translational control of hemoglobin synthesis in thalassemic bone marrow. J. Clin. Invest. 53: 955-963 (1974).
52. Jacobson, A., R.A. Firtel and H.F. Lodish. Transcription of polydeoxythymidylate sequences in the genome of the cellular slime mold Dictyostelium discoideum. Proc. Natl. Acad. Sci. USA 71: 1607-1611 (1974).
53. Jacobson, A., R.A. Firtel and H.F. Lodish. Synthesis of messenger and ribosomal RNA precursors in isolated nuclei of the cellular slime mold Dictyostelium discoideum. J. Mol. Biol. 82: 213-230 (1974)

54. Firtel, R.A., A. Jacobson, J. Tuchman and H.F. Lodish. Gene activity during development of the cellular slime mold Dictyostelium discoideum. XIII International Congress of Genetics, Berkeley, Ca. Symp. on Devel. Genetics 78: 355-372 (1974).
55. Tuchman, J., T. Alton and H.F. Lodish. Preferential synthesis of actin during early development of the slime mold Dictyostelium discoideum. Devel. Biol. 40: 116-128 (1974).
56. Morrison, T., M. Stampfer, D. Baltimore and H.F. Lodish. Translation of vesicular stomatitis virus messenger RNA by extracts from mammalian and plant cells. J. Virol. 13: 62-72 (1974).
57. Lodish, H.F., R. Weinberg and H.L. Ozer. Translation of mRNA from simian virus 40-infected cells into simian virus 40 capsid protein by cell-free extracts. J. Virol. 13: 590-595 (1974).
58. Verma, I.M., R.A. Firtel, H.F. Lodish and D. Baltimore. Synthesis of DNA complementary to cellular slime messenger RNA by reverse transcriptase. Biochem. 13: 3917-3922 (1974).
59. Morrison, T.G. and H.F. Lodish. Recognition of protein synthesis initiation signals on bacteriophage ribonucleic acid by mammalian ribosomes. J. Biol. Chem. 249: 5860-5866 (1974).
60. Lodish, H.F. Model for the regulation of mRNA translation applied to haemoglobin synthesis. Nature 251: 385-388 (1974).
61. Lodish, H.F., A. Jacobson, R. Firtel, T. Alton and J. Tuchman. Synthesis of messenger RNA and chromosome structure in the cellular slime mold. Proc. Natl. Acad. Sci. USA 71: 5103-5108 (1974).
62. A., R. Firtel and H.F. Lodish. The synthesis of messenger RNA in the cellular slime mold Dictyostelium discoideum. In: Processing of RNA. Brookhaven Symposia in Biology 26: 307-319 (1974).

1975

63. Lodish, H.F. Regulation of in vitro protein synthesis by bacteriophage RNA by tertiary structure. In: RNA Phages (N.D. Zinder, ed.) Cold Spring Harbor Laboratories, New York, NY, pp. 301-318 (1975).
64. Morrison, T.G., M. Stampfer, H.F. Lodish and D. Baltimore. In vitro translation of vesicular stomatitis virus messenger RNAs and the existence of the 40S "plus" strand. In: Negative Strand Viruses I. (B.W.J. Mahy and R.D. Barry, eds). Academic Press, New York, NY 293-300 (1975).
65. Lodish, H.F. and B. Small. Membrane proteins synthesized by rabbit reticulocytes. J. Cell Biol. 65: 51-64 (1975).
66. Knipe, D., J.K. Rose and H.F. Lodish. Translation of individual species of vesicular stomatitis virus mRNA. J. Virol. 15: 1004-1011 (1975).

67. Morrison, T. and H.F. Lodish. Site of synthesis of membrane and nonmembrane proteins of vesicular stomatitis virus. J. Biol. Chem. 250: 6955-6962 (1975).
68. Temple, G. and H.F. Lodish. Competition between a and b globin messenger RNA. Biochem. Biophys. Res. Commun. 63: 971-979 (1975).
69. Lodish, H.F., T. Alton, J.P. Margolskee, R. Dottin and A. Weiner. RNA and protein synthesis during differentiation of the slime mold, Dictyostelium discoideum. ICN-UCLA Symposia on Molecular and Cellular Biology. In: Developmental Biology (D. McMahon and C.F. Fox, eds.) W.A. Benjamin Inc., Menlo Park, CA, pp. 366-394 (1975).
70. Jacobson, A. and H.F. Lodish. Genetic control of development of the cellular slime mold Dictyostelium discoideum. Ann. Rev. Genetics. 9: 145-185 (1975).
71. Cancedda, R., L. Villa-Komaroff, H.F. Lodish and M. Schlesinger. Initiation sites for translation of Sindbis virus 42S and 26S messenger RNAs. Cell 6: 215-222 (1975).
72. Goldman, E. and H.F. Lodish. Competition between bacteriophage f2 RNA and bacteriophage T4 messenger RNA. Biochem. Biophys. Res. Commun. 64: 663-672 (1975).
73. Villa-Komaroff, L., N. Guttman, D. Baltimore and H.F. Lodish. Complete translation of poliovirus RNA in a eukaryotic cell-free system. Proc. Natl. Acad. Sci. USA 72: 4157-4161 (1975).
74. Lodish, H.F., B. Small and H. Chang. Maturation of rabbit reticulocytes: Degradation of specific reticulocyte proteins. Devel. Biol. 47: 59-67 (1975).

1976

75. Buchman, J., J.E. Smart and H.F. Lodish. Effects of differentiated membranes on the developmental program of the cellular slime mold. Devel. Biol. 51: 77-85 (1976).
76. Lodish, H.F. and B. Small. Different lifetimes of reticulocytes messenger RNA. Cell 7: 59-65 (1976).
77. Chang, H., P.J. Langer and H.F. Lodish. Asynchronous synthesis of erythrocyte membrane proteins. Proc. Natl. Acad. Sci. USA 73: 3206-3210 (1976).
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