

CURRICULUM VITAE

Eric Verdin, MD

Work Address

The Buck Institute for Research on Aging
8001 Redwood Blvd.
Novato, CA 94945
Office Phone: (415) 209-2250
Cell Phone: (415) 305-9208
Email: everdin@buckinstitute.org

Biographical Data

Birthplace: Belgium
Citizenship: Belgium, USA

Education

MD, University of Liège
Liège, Belgium, 1982

Visiting Student, Harvard Medical School
Boston, MA, 1981

B.S. in Medical Sciences, University of Liège
Liège, Belgium, 1978

Research Positions

2016- Present	CEO & President, The Buck Institute for Research on Aging, Novato, CA
2016- Present	Adjunct Professor, Leonard Davis School of Gerontology, University of Southern California, Los Angeles
2004-2016	Associate Director, Gladstone Institutes, San Francisco, CA
1998- Present	Professor, University of California, San Francisco, CA
1997- 2016	Senior Investigator, Gladstone Institute, San Francisco, CA
1997	Professor, The Picower Institute for Medical Research, Manhasset, NY
1993-1997	Associate Professor, The Picower Institute for Medical Research, Manhasset, NY
1990-1993	Senior Staff Fellow, NIH, Bethesda, MD

1987-1990 Assistant Professor, Free University of Brussels, Belgium

1984-1987 Postdoctoral Fellowship, Harvard Medical School, Elliott P. Joslin Research Laboratory, Boston, MA (Laboratories of C. Ronald Kahn and Bernard Fields)

1983-1984 Intern in Medicine, University of Massachusetts, Worcester, MA

1982-1983 Research Intern, University of Liège, Department of Internal Medicine, Liège, Belgium

Memberships & Activities

Member, Board of Directors, Bay Area Council, Bay Area Science and Innovation Consortium (BASIC)

Director, Paul F. Glenn Center for Aging Research

Member, Board of Trustees, Buck Institute for Research on Aging

Member, American Society for Microbiology

Elected Fellow, American Association for the Advancement of Science (AAAS)

Council Member, National Advisory Council on Drug Abuse, NIDA, NIH

Member, American Federation for Aging Research (AFAR)

Charter Member, Molecular Medicine Society

Member, American Society for Biochemistry and Molecular Biology

Member, American Society for Clinical Investigation

Member, American Association of Physicians

Member, American Diabetes Association

Member, Gerontological Society of America

Member, NIH, AMCB Study Section

Honors & Awards

2018 Doctor Honoris Causa, Bulgarian Academy of Sciences

2010 Avant-Garde Award, NIH/NIDA

2010 Glenn Award for Research in Biological Mechanisms of Aging

2003 Senior Scholar in Aging, Ellison Medical Foundation

1982 Graduated with Honors from University of Liège, Belgium

Ad Hoc Journal Reviews

Biochemical Journal	Molecular Cell
Cell	Nature
Cell Host & Microbe	Nature Medicine
Cell Metabolism	PLoS Biology
Cell Reports	PLoS Pathogens

EMBO J
J. Virology
Journal of Biological Chemistry
Molecular and Cellular Biology

PNAS
Science
Science Translational Medicine
Other Journals

Editorial Board Reviews

2016- Present	Nutrition and Healthy Aging
2015- Present	Oncotarget
2014- Present	Aging and Mechanisms of Diseases
2014- Present	Trends in Endocrinology
2009- Present	Clinical Epigenetics
2009- Present	Aging
2008- 2009	Faculty of 1000, Medicine, HIV Infection and AIDS: Basic Science
2006- Present	Virology
2006- 2010	Molecular Cellular Biology
2006- 2010	PLoS ONE
1998- Present	Chemtracts

Advisory Committees

2011 International AIDS Society, Member of International Working Group: “Towards a Cure”
2009 American Federation for Aging Research (AFAR), National Scientific Advisory Council

Journal Editor

Special Issue of *Methods* devoted to Protein Acetylation (9 contributions)
Methods. Aug 2005; 36(4) 321-406

Book Editor

Histone Deacetylases: Transcriptional Regulation and Other Cellular Functions, Series: Cancer Drug
Discovery and Development, May 2006.

Granting Organizations

National Institute of Health
Swiss Federal Institute
Pasteur Institute, France
Joslin Diabetes Center, Harvard Medical School, Pilot project program
Fonds zur Forderung der wissenschaftlichen Forschung (FWF), Austria

Fond National de la Recherche Scientifique, Belgium
German Israeli Foundation for Scientific Research and Development
American Federation for AIDS Research (AmFAR)
American Federation for Aging Research (AFAR)

Meeting Organizer

2018 Co-Organizer, Cell Symposia: Aging and Metabolism, Sitges, Spain
2017 Co-Organizer, Inflammation, Aging and Chronic Disease, Stanford, CA
2015 Co-Organizer, Keystone Meeting on Sirtuins, Santa Fe, NM
2014 Co-Organizer, 38th Mahabaleshwar Seminar, Mumbai, India
2011 Co-Organizer, FASEB Conferences on Histone Deacetylases, Steamboat, CO
2011 French American Biotechnology Symposium: New Therapeutic Approaches of Aging, Gladstone Institutes, San Francisco, CA
2010 Co-Organizer, Bay Area Aging Club, Berkeley, CA
2009 Organizer, West Coast Retrovirus Meeting, Palm Springs, CA
2008 Co-Organizer, Epigenetics Symposium, San Francisco, CA
2003 Chair and Organizer, Novartis Symposium on Protein Acetylation, London, UK
1999 Organizer, West Coast Retrovirus Meeting

Patents

US Patent Number 8,114,853	<i>Methods for Treating Smooth Muscle Cell Disorders</i> Issued February 14, 2012
US Patent Number 7,884,081	<i>Methods for Modulating Tubulin Deacetylase Activity</i> Issued February 8, 2011
US Patent Number 7,745,173	<i>Histone Deacetylase and Methods of Use Thereof</i> Issued June 29, 2010
US Patent Number 7,544,467	<i>Cell Lines with Latent Immunodeficiency Virus and Methods of Use Thereof</i> Issued June 9, 2009
US Patent Number 7,488,587	<i>Histone Deacetylase and Methods of Use Thereof</i> Issued February 10, 2009
US Patent Number 7,485,416	<i>Compositions and Methods for Modulating Sirtuin Activity</i> Issued February 3, 2009
US Patent Number 7,482,016	<i>Acetylated Tat Polypeptides and Methods of Use Thereof</i> Issued January 27, 2009
US Patent Number 7,351,542	<i>Methods for Modulating Tubulin Deacetylase Activity</i> Issued April 1, 2008
US Patent Number 7,273,713	<i>Methods of Modulating Mitochondrial NAD-dependent Deacetylase</i> Issued September 25, 2007
US Patent Number 7,232,685	<i>Cell Lines with Latent Immunodeficiency Virus and Methods of Use Thereof</i> Issued June 19, 2007

US Patent Number 7,081,343

Methods for Identifying Modulators of NF-KB Activity
Issued July 25, 2006

Patent Applications

US Patent Application Publication Number 20110305662

Methods of Treating Immune-deficiency Virus Infection
Filed April 15, 2011

US Patent Application Publication Number 20080076835

Methods of Modulating Mitochondrial NAD-Dependent Deacetylase
Filed August 15, 2007

US Patent Application Publication Number 20090061015

Regulation of Protein Activity by Reversible Acetylation
Filed June 11, 2007

US Patent Application Publication Number 20080200566

Dephosphorylation of HDAC7 by Myosin Phosphatase
Filed April 27, 2007

Commercial Activities

2015-Present	Nokia , Consultant, Member of Medical Advisory Board
2011- Present	Cell Signaling Technology , Consultant, Postranslational modifications
2009-2014	Acylin - Acetyl- and Acyl-transferases and their inhibitors, Founder and SAB Member
2009- Present	Nanosyn , Consultant, Biology of HDAC inhibitors
2007- Present	Novartis Venture Capital Fund , Advisor
2005- Present	Sofinnova Ventures , Advisor
2005- Present	Sirtris , SAB Member, Biology of Sirtuins
2003-2006	Altana , HDAC inhibitors in cancer
2003-2005	Elixir , SAB Member, Biology of Sirtuins
2001	Pfizer , Development of anti-HIV compounds
2000-2003	Roche , HDAC inhibitors
1999-2002	Janssen Research Foundation, J&J , HDACs and Cancer
1998-2005	Novartis , Biology of Histone Deacetylases

Media and Interviews

1. Quoted in *MIT Technology Review*, “Can AIDS be cured?”, June 2010.
2. Quoted in *UCSF Today*, “AIDS virus may accelerate aging, scientists say”, June 2011.
3. Quoted in *UCSF News Service*, “Learning lessons from an HIV cure”, June 2011

4. Interviewed by *San Francisco Chronicle*, “HIV patients aging prematurely”, September 2012
5. Quoted in *Cornell Chronicle*, “Vitamin supplement successfully prevents noise-induced hearing loss”, December 2014
6. Interviewed by *San Francisco Business Times*, “Little known drug may halt multiple sclerosis, Gladstone study finds”, April 2015
7. Quoted in *Science Daily*, “Old drug offers new hope to treat Alzheimer’s disease”, September 2015
8. Quoted in *The San Diego Union-Tribune*, “Aspirin relative might help Alzheimer’s”, September 2015
9. Quoted in *Science Daily*, “Ancient anti-inflammatory drug salicylic acid has cancer-fighting properties” May 2016
10. Quoted in *Oncology Nurse Advisor*, “Anticancer properties of salicylic acid and diflunisal revealed in laboratory experiments”, June 2016
11. Quoted in *Bel Marra Health*, “Old rheumatoid arthritis drug Salsalate offers new hope to treat Alzheimer’s disease”, July 2016
12. Interviewed by *North Bay Business Journal*, December 2016
13. Interviewed by *LeTemps*, January 2017
14. Quoted in *The Scientist*, “Repurposing existing drugs for new indications”, January 2017
15. Quoted in *The Washington Post*, “Trump’s health: What we could expect with the oldest incoming president”, January 2017
16. Quoted in *Town & County Magazine*, “Are you rich enough to live forever?”, March 2017
17. Interviewed by *KALW*, “City Visions: Are we close to a cure for aging?”, April 2017
18. Interviewed by *The New Yorker*, “The God Pill: Silicon Valley’s quest to live forever”, April 2017
19. Quoted in *Nature*, “California’s \$3-billion bet on stem cells faces final test”, April 2017
20. Interviewed by *Gizmodo*, April 2017
21. Quoted in *JAMA Medial News*, “Can a diet that mimics fasting turn back the clock?”, June 2017
22. Interviewed by *The Japan Times*, June 2017
23. Interviewed by *NBC News*, June 2017
24. Interviewed by *Nautilus*, “How aging research in changing our lives”, June 2017
25. Interviewed by *PresaDiretta*, June 2017
26. Interviewed by *Der Spiegel*, “Von Mäusen und Menschen”, July 2017
27. Quoted in *Futurism*, “We will extend our lives but not attain immortality, says anti-aging researcher”, July 2017
28. Interviewed by *The Sunday Times*, July 2017
29. Quoted in *Herald Tribune*, “New Wrinkles: Insights on aging: If it’s not one thing, it’s another”, August 2017
30. Quoted in *The Advertiser Tribune*, “Silicon Valley looking to extend life”, August 2017
31. Interviewed by *Wired*, “These mice stopped eating carbs so you (maybe) don’t have to”, September 2017
32. Quoted in *The Guardian*, “Could a drug that mimics a zero-carb diet help us live longer, healthier lives?”, September 2017

33. Quoted in *Vallejo Times Herald*, “Buck Institute study suggests high fat diet may be healthy”, September 2017
34. Quoted in *Men’s Health*, “Researchers are developing a pill that helps you lose weight and lets you still eat carbs”, September 2017
35. Quoted in *Healthline News*, “Keto diet can help you live longer, researchers say”, September 2017
36. Quoted in *Alzforum*, “Aging mice are sharper, fitter on a high-fat, low-carb diet”, September 2017
37. Quoted in *Diet News*, “New studies show that a low-carb keto diet extends lifespan in mice”, September 2017
38. Quoted in *Healthline News*, “BHB: The miracle molecule of the keto diet?”, September 2017
39. Interviewed by *Master Investor Magazine*, “Investing in the longevity revolution-an exclusive behind-the-scenes report”, November 2017
40. Interviewed by the *Marin Independent Journal*, “Novato’s Buck Institute sees brighter future after turmoil”, January 2018
41. Interviewed by *BBC News*, “Of Mice and Old Men: Silicon Valley’s quest to beat ageing”, January 2018
42. Interviewed by *Bezinga*, “Buck Institute Emphasizes Importance of Artificial Intelligence with New Appointment”, February 2018
43. Quoted in *International Business Times, India Edition*, “Can the Keto diet cure Alzheimer’s? Here’s how it can potentially slow down aging”, February 2018
44. Quoted in *Body and Soul*, “Ketogenic diet can slow ageing, study suggests”, February 2018
45. Quoted in *STAT*, “A dietary supplement makes old mice youthful. But will it work in people?”, March 2018
46. Quoted in *Medical Xpress*, “Scientists identify potential targets for new autoimmune disease treatments”, April 2018
47. Interviewed by *WBEZ*, “Ketogenic Diet...Is Fat Good For You?”, April 2018
48. Quoted in *EurekaAlert*, “Study challenges ‘shock and kill’ approach to eliminating HIV”, May 2018

Invited Research Seminars

May 2018, BAAM, University of California, Berkeley
 May 2018, TedX Salon, Marin County, CA
 April 2018, AAP/ASCI/APSA, Aging and Healthy Living II, Chicago, IL
 April 2018, BMS Seminar, University of California, San Francisco
 March 2018, Bulgarian Academy of Sciences, Sofia, Bulgaria
 March 2018, Mauldin Economics Conference, San Diego, CA
 January 2018, Immunometabolism Scientific Advisory Board Meeting, JANSSEN, San Diego, CA
 December 2017, AI and Longevity Micro-Conference, Buck Institute for Research on Aging
 December 2017, Beckman Symposium, City of Hope, Duarte, CA
 November 2017, Inflammation, Aging and Chronic Disease Conference, Stanford University
 November 2017, BMS Data Blitz 2017, University of California, San Francisco
 November 2017, Metabesity 2017 World Congress, London, England

October 2017, Metabolism and Cardiovascular Disease, Heidelberg, Germany
October 2017, 19th Annual IHV Conference, Baltimore, MD
October 2017, Biology of Aging Symposium, University of Southern California
August 2017, FASEB, Reversible Acetylation in Health & Disease, Big Sky, MT
July 2017, International Association of Gerontology and Geriatrics World Congress, San Francisco, CA
June 2017, 30th Paul F. Glenn/AFAR Conference on the Biology of Aging, Santa Barbara, CA
May 2017, Mechanisms of Metabolic Signaling, Cold Spring Harbor Laboratories, NY
May 2017, National Cancer Institute, Frederick, MD
April 2017, Cleveland Clinic, Cleveland, OH
February 2017, OMRF Research Forum, Oklahoma City, OK
February 2017, USC Colloquium, Los Angeles, CA
September 2016, Epigenetic Control and Cellular Plasticity Symposium, UC Irvine, CA
September 2016, ICAD Meeting, Palo Alto, CA
August 2016, FEBS/EMBO Lecture Course: Chromatin and the Environment, Spetses, Greece
April 2016, University of Pennsylvania, Philadelphia, PA
January 2016, Paul F. Glenn Center Symposium at Stanford, Palo Alto, CA
December 2015, International KAUST Symposium, Epigenetics and Environment, King Abdullah
University of Science and Technology, Saudi Arabia
November 2015, University of Miami, Miller School of Medicine and Cancer, Miami, FL
November 2015, Novo Nordisk Foundation Meeting: Nutrient Sensing and Metabolite Signaling,
Copenhagen, Denmark
October 2015, Banbury Meeting: HIV Latency and Reservoirs, Cold Spring Harbor Laboratory, Cold
Spring Harbor, NY
September 2015, 40th Naito Conference: Epigenetics, Sapporo, Japan
September 2015, Riken, Yokohama, Japan
September 2015, GIGA Seminar, University of Liège, Belgium
August 2015, FASEB Meeting, Timmendorfer Strand, Germany
April 2015, Gladstone/DZNE joint meeting: Aging in the Brain, San Francisco, CA
April 2015, ADARC, Rockefeller University, New York, NY
March 2015, Keystone Symposium: Biology of Sirtuins, Santa Fe, NM
January 2015, Western Conference of Physician Scientists, Carmel, CA
January 2015, Keystone Symposium: Integrating Metabolism and Tumor Biology, Vancouver, Canada
January 2015, UCSF/Gladstone CFAR Symposium: HIV Cure, San Francisco, CA
October 2014, UCSF Geriatrics Visiting Professor and Grand Rounds, San Francisco, CA
October 2014, Idibell Foundation Symposium: 50 Years of Histone Acetylation, Barcelona, Spain
September 2014, Fondazione IBSA for Scientific Research: Annual Symposium on Aging Research,
Frankfurt, Germany
September 2014, Annual meeting of the Institute for Human Virology, Baltimore, MD
July 2014, 20th International AIDS Conference, Melbourne, Australia
June 2014, Amgen, South San Francisco, CA
June 2014, American Aging Association Annual Meeting, San Antonio, TX
May 2014, CALICO, South San Francisco, CA
April 2014, Abcam Meeting: Crossing Boundaries: Linking Metabolism to Epigenetics, Cambridge, MA
April 2014, Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, Switzerland
March 2014, PCB Seminar, Duke University, Durham, NC
March 2014, Department of Pharmacology, Duke University, Durham, NC

February 2014, Biophysical Society Annual Meeting, San Francisco, CA
January 2014, TATA Institute for Research (TIFR) Mumbai, India
January 2014, 38th Mahabaleshwar Seminar, Mahabaleshwar, India
December 2013, 2nd International Symposium: Epigenetic Control and Cellular Plasticity, UC Irvine
October 2013, Joslin International Symposium on Diabetes, Harvard Medical School, Boston, MA
September 2013, 3rd Frontiers of Retrovirology Meeting, Cambridge, England
August 2013, FASEB Science Research Conference: HDACs and Protein Acetylation, Lucca, Italy
August 2013, Gordon Research Conference on Aging, Lucca, Italy
July 2013, FASEB Science Research Conference on Protein Lipidation, Signaling, and Membrane Domains, Saxton River, VT
April 2013, Annual Meeting of ASCI-AAP, Chicago, IL
March 2013, Symposium on Epigenetic Regulation of Transcription, Gilead, South San Francisco, CA
January 2013, Keystone Symposium: Diabetes, Keystone, CO
December 2012, SIRTRIS/GSK Sirtuin Summit, Cambridge, MA
December 2012, 2nd Copenhagen Bioscience Conference, Copenhagen, Denmark
November 2012, Pasteur Institute Meeting on HIV Latency, Pasteur Institute, Paris, France
November 2012, Antiviral Congress, Boston, MA
October 2012, Keystone Symposium: Aging and Diseases of Aging, Tokyo, Japan
October 2012, Institute of Human Virology Annual Meeting, Baltimore, MD
October 2012, Hillblom Symposium in Aging Research, UCSF, San Francisco, CA
July 2012, 9th Annual Meeting of Insulin Resistance and Metabolic Syndrome Study Group (IRMS), Tokyo, Japan
June 2012, CARE Annual Meeting, UNC, Raleigh, NC
June 2012, Harvard Glenn Symposium on Aging, Boston, MA
May 2012, Annual Meeting of the American College of Sports Medicine, San Francisco, CA
May 2012, Annual Avant-Garde Meeting, NIDA, Bethesda, MD
May 2012, Brown University Aging Colloquium, Providence, RI
April 2012, University of Southern California, Dept. of Gastroenterology, Los Angeles, CA
April 2012, International Conference on Brain Energy Metabolism, Monterey, CA
April 2012, Spector Prize Satellite Symposium, Columbia University, New York, NY
April 2012, Aaron Diamond AIDS Research Center, Rockefeller University, New York, NY
March 2012, Keystone Symposium: Frontiers in HIV Pathogenesis, Therapy, and Eradication, Whistler, Canada
March 2012, US HUPO 8th Annual Conference: The Future of Proteomics, San Francisco, CA
February 2012, Keystone Symposium: Sirtuins in Metabolism, Aging, and Disease, Granlibakken, CA
January 2012, IMP-IMBA-BI Meeting: Epigenetic Regulation in Disease, Vienna, Austria
2011, SIRTRIS/GSK, Sirtuin Summit, Cambridge, MA
2011, Rigel, South San Francisco, CA
2011, University of Graz, Austria
July 2011, International AIDS Society Meeting, Rome, Italy
July 2011, FASEB Summer Research Conference
June 2011, 76th Cold Spring Harbor Symposium on Quantitative Biology: Metabolism and Disease, Cold Spring Harbor, NY
May 2011, HHMI Symposium, HHMI Janelia Farm Research Center, Ashburn, VA
April 2011, Avant-Garde Awardee Workshop, NIDA, NIH, Bethesda, MD
April 2011, French American Biotechnology Symposium: New Therapeutic Approaches of Aging,

Gladstone Institutes, San Francisco, CA
April 2011, National NIH Liver Centers Annual Meeting, UCSF, San Francisco, CA
March 2011, Aging and Metabolism International Symposium, Stein am Rhein, Switzerland
March 2011, Cell Symposium on Metabolism and Aging, Cape Cod, MA
March 2011, Joslin Diabetes Center, Boston MA
March 2011, Endocrine Grand Rounds, Beth Israel Hospital and Harvard Medical School, Boston, MA
February 2011, Mount Sinai University School of Medicine, New York, NY
February 2011, New York Academy of Science Meeting, New York, NY
December 2010, Helen Diller Cancer Center Workshop on Metabolism and Cancer, UCSF, San Francisco, CA
October 2010, Endocrine Grand Rounds, UCSF, San Francisco, CA
October 2010, UCSF Hillblom Symposium: From Molecules to Medicine, San Francisco, CA
September 2010, Chromatin Control of Viral Infection Symposium, NIH, Bethesda, MD
September 2010, Science for Life, Gladstone Institutes, San Francisco, CA
August 2010, Gordon Research Conference on Aging, Les Diablerets, Switzerland
July 2010, International AIDS Society, Pre-Conference Workshop, Vienna, Austria
2010, Avon, Suffern, NY
2010, Tempero, Boston, MA
2010, University of Utah, Salt Lake City, UT
2010, University of Pittsburgh, Children Hospital, Pittsburgh, PA
February 2010, Keystone Symposia: Tolerance and Autoimmunity, Santa Fe, NM
January 2010, Keystone Symposia: HIV Pathogenesis
2009, 1st Metabolic Disease Symposium: Insulin Resistance, Saas Fee, Switzerland
2009, 7th Cambridge Healthtech Institute Meeting: HDAC Inhibitors, Boston, MA
2009, Idibell Cancer Conference: Sirtuin, Barcelona, Spain
2009, West Coast Retrovirus Meeting, Palm Springs, CA
August 2009, FASEB Summer Research Conference, Lucca Italy
June 2009, Sigrid Juselius Foundation Symposium: Aging, Neurodegeneration and Mitochondria, Espoo, Finland
2009, University of California, Berkeley, Dept. of Nutrition, Berkeley, CA
2009, Washington University School of Medicine, Dept. of Developmental Biology, Saint Louis, MO
December 2008, Symposium on miRNA and Epigenetic Regulations of the Immune Response, NIH, Bethesda, MD
November 2008, University of Pennsylvania, Philadelphia, PA
October 2008, 15th West Coast Retrovirus Meeting, Palm Springs, CA
September 2008, Molecular Genetics of Aging, Cold Springs Harbor, New York, NY
June 2008, Royal Academy of Medicine of Belgium, Brussels, Belgium
March 2008, Epigenetics Symposium, UCSF, San Francisco, CA
March 2008, Mount Sinai University, Dept. of Structural and Chemical Biology, New York, NY
March 2008, New York University, Dept. of Microbiology, New York, NY
2008, Longwood Area Diabetes: Metabolism Research Seminar Series, Harvard Medical School, Boston, MA
2008, Pharmion/Cellgene, San Francisco, CA
2008, GTCBio New Applications in Aging Research Conference
2007, UCSF Cardiovascular Research Institute, San Francisco, CA
2007, Ellison Medical Foundation Annual Meeting, Woods Hole, MA

2007, Glaxo SmithKline, Philadelphia, PA
2007, CFAR Symposium on Latency, UCSF, San Francisco, CA
2006, Cell Signaling Technology, Danvers, MA
2006, University of Southern California, Los Angeles, CA
2006, Molecular Genetics of Aging, Cold Spring Harbor Meeting, Cold Spring Harbor, NY
2006, Case Western Reserve CFAR Symposium, Cleveland, OH
2006, University of Geneva, Switzerland
2006, Gene Expression and Signaling in the Immune System, Cold Spring Harbor Meeting, NY
2006, Atlanta Pharma AG, Konstanz, Germany
2006, Berlex, Richmond, CA
2005, CRG-Centre de Regulacio Genomica, Barcelona, Spain
2005, Groups Studying the Structures of AIDS Related Systems and Their Application to Targeted Drug Design, NIH, Bethesda, MD
2005, Sirtris Pharmaceuticals, Cambridge, MA
2005, University of Texas Southwestern Medical Center, Dallas, TX
2005, Winter Symposium II, University of Miami, FL
2004, Molecular Targets for Cancer Therapy, Moffitt Cancer Center, Tampa, FL
2004, National Institutes of Health, Meeting of Groups Studying the Structure of AIDS Related Systems And Their Application to Targeted Drug Design, Bethesda, MD
2004, Keystone Symposium: HIV Pathogenesis, Whistler, British Columbia
2004, Stanford University School of Medicine, Palo Alto, CA
2004, HDAC Symposium: Novartis Functional Genomic Group
2003, Pasteur Institute, Paris, France
2003, University of Liege, Liege, Belgium
2003, Symposium on “Viruses and Immune Defense”, Erlangen, Germany
2003, American Association for Cancer Research: Meet the Expert Sunrise Session on Histone Deacetylases: biology and relevance to cancer, Washington, DC
2003, Celera, South San Francisco, CA
2003, Istituto di Ricerche di Biologia Molecolare P. Angeletti, Rome, Italy
2003, Altana Pharma AG, Germany
2003, Novartis Foundation and Physiological Society open meeting, London, England
2003, Novartis Foundation Symposium
2003, CFAR Symposium: Mechanisms of Viral Latency: HIV and its Cofactors, Case Western Reserve University, Cleveland, OH
2003, Elixir, Boston, MA
2003, CFAR, UCSF Symposium on HIV Latency, San Francisco, CA
2002, Progress in HIV Research, Centre de Recherches Lemanique contre le SIDA, Lausanne, Switzerland
2002, Universite Libre de Bruxelles, Gosselies, Belgium
2002, Behr Symposium, DKFZ German Cancer Center, Heidelberg, Germany
2002, CFAR, UCSF Symposium: HIV Pathogenesis: Back to Basics, San Francisco, CA
2002, Mount Sinai University School of Medicine, New York, NY
2002, International AIDS Meeting, Barcelona, Spain
2002, NIH Viral Reservoirs/Transient HIV Infection, Think Tank, Bethesda, MD
2002, Novartis/Dana Farber Cancer Institute Retreat, Quebec City, Canada
2002, DKFZ German Cancer Research Center, Heidelberg, Germany

2001, Cellzome, Heidelberg, Germany
 2001, Juan March Foundation Meeting: Chromatin and Transcription, Madrid, Spain
 2001, Keystone Symposium, Control of Viral Latency and Persistence, Breckenridge, CO
 2001, Mount Sinai School of Medicine, New York, NY
 2001, New York University, New York, NY
 2000, West Coast Chromatin Meeting, Asilomar, CA
 2000, Vanderbilt University, Nashville, TN
 2000, Sangamo, Richmond, CA
 2000, Progress in HIV Research Centre de Recherches Lemanique contre le SIDA, Lausanne, Switzerland
 2000, Roche Diagnostics, Penzberg, Germany
 2000, Janssen Research Institute, Beerse, Belgium
 2000, Institute of Human Virology: Annual Meeting, Baltimore, MD
 2000, ECEAR Meeting: European Meeting on HIV, Madrid, Spain
 2000, NIH Advisory Meeting on HDACs and Cancer, Bethesda, MD
 2000, Keystone Symposium, HIV Pathogenesis, Keystone, CO
 2000, San Francisco General Hospital, PCMM Seminar, San Francisco, CA
 2000, Trieste University, Trieste, Italy
 2000, University of Lausanne, Lausanne, Switzerland
 2000, University of Geneva, Geneva, Switzerland
 1999, West Coast Chromatin Meeting, Asilomar, CA
 1999, Pfizer, Boston, MA
 1999, West Coast Retrovirus Meeting, Newport Beach, CA
 1999, International Meeting for Gene Therapy and Molecular Biology, Heraklion, Crete
 1999, Institute of Human Virology: Annual Meeting, Baltimore, MD
 1999, Novartis, East Hanover, NJ
 1999, University of Liege, Liege, Belgium
 1999, Memorial Sloan Kettering, New York, NY
 1999, RIGHT Meeting, Washington, DC
 1999, New York Blood Center, New York, NY
 1999, San Francisco State University, San Francisco, CA
 1999, Free University of Brussels, Brussels, Belgium
 1999, Boehringer, Penzberg, Germany
 1999, Walter Reed Army Hospital, Bethesda, MD
 1999, Keystone Symposium, AIDS Pathogenesis, Keystone, CO

Academic Functions

Academic Committees

2001- Present	Member, Biomedical Sciences Graduate Program Selection Committee, UCSF
1998-1999; 2004-2016	Chair, Gladstone Institute of Virology and Immunology Guest Speakers Program
1998-2016	Member, Search Committee, Gladstone Institute
1997- Present	Member, Biomedical Sciences (BMS) Graduate Program, UCSF
2005- Present	Member, Tetrad/PIBS Graduate Program UCSF

2002- 2016	Member, Fundraising Committee, Gladstone Institute
2002	Member, Annual Retreat Committee, Gladstone Institute
2003, 2009	Chair, Annual Retreat Committee, Gladstone Institute
2006-2016	Member, Intellectual Property Committee, Gladstone Institute
2008-2016	Member, Gladstone Animal Care and Use Committee
2012	Co-Chair, Search Committee for Cardiovascular Research Institute, UCSF
2017- Present	Member, Search Committee, Buck Institute

Qualifying Examination and Thesis Committees, UCSF

Mary Keir, BMS
 Michael Penn, MSTP
 Stephen Chan, MSTP
 Jason Kreisberg, BMS
 Dan Miranda, BMS
 Sam Williams, BMS
 Eleanor Kincaid, BMS
 Kimber Stopak, BMS
 Sean Pintchowski, PIBS
 David Williamson, PIBS
 Sarah Carter, PIBS
 Francesca Gazzaniga, PIBS
 Katie Austgen, BMS
 Yelena Bronevetsky, BMS
 Nicole Beyers, BMS
 Lindsay Murrow, BMS
 Debbie Ruelas, BMS
 Brittany Anderson, BMS

Student Training

Postdoctoral Fellows

Louis Droogmans, 1988-1990
 Aboubaker El Kharroubi, 1991-1993
 Carine Van Lint, 1994-1997
 Stephane Emiliani, 1994-1998
 Georges Herbein, 1995-1997
 Melanie Ott, 1998-1999
 Patricia Defechereux, 1998-2000
 Jen-Kuei Wang, 1998-2000
 Veronique Kiemer, 1998-2001
 Albert Jordan, 1998-2001
 Khaoula Bourara, 2000-2001
 Sabine Thebault, 2000-2002
 Christine Callebaut, 1999-2004
 Frank Dequiedt, 2000-2002
 Herb Kasler, 2001-
 Dwayne Bisgrove, 2001-2007

Laura Saunders, 2002-2009
Maribel Para-Bola, 2003-2007
Bjoern Schwer, 2003-2007
Nidhi Ahuja, 2003-2005
Tokameh Mamhoudi, 2003-2006
Steve Kauder, 2005-2010
Nandita Sarkar, 2005-2008
Matthew Hirshey, 2006-2011
Jing-Yi Huang, 2007-2012
Do Soo Jang, 2007-2009
Shweta Hakre, 2007-2014
Denis Motet, 2007-2009
Tadahiro Shimazu, 2007-2011
Liang Guo, 2007-2009
Hyungwook Lim, 2008-2016
Wenjuan He, 2010-2016
Philip Merksamer, 2010-2014
Vincenzo Calvanses, 2011-2013
Yong Pan, 2011-2014
John Newman, 2011-2018
Yuya Nishida, 2012-2015
Emile Besnard, 2012-2018
Emile Bativelli, 2012-
Hyusun Jo, 2012-2016
Philip Gut, 2012-2014
Matthew Dahabieh, 2013-2014
Chris Carrico, 2013-
Dezmond Taylor-Douglas, 2016-2017
Puneet Anand, 2016-2017
Anthony Covarrubias, 2016-
Tugsan Tezil, 2016-
Marius Walter, 2016-
Rosalba Perrone, 2017-
Ran Zhang, 2017-
Yik Lim Kok, 2017-
Oishika Panda, 2017-

Graduate Students, Dissertations

Marinee Chuah Lay Khim, PhD, Molecular Biology, ULB, 1987-1990
Nathalie Becker, PhD, Molecular Biology, ULB, 1988-1990
Carine Van Lint, PhD, Molecular Biology, ULB, 1989-1994
Melanie Ott, PhD, Molecular Medicine, ULB, 1994-1997
Ulriche Maelkenecht, PhD, Molecular Medicine, 1995-1998
Wolfgang Fishle, PhD, Biochemistry, University of Tuebingen, Germany, 1996-2001
Brian North, BMS, UCSF, 2000-2005
Rani Jayakumar, BMS, UCSF, 2002-2006

Leonard Chavez, BMS, UCSF, 2008-
Lin Ho, CCB, UCSF, 2009-2013
Intelly Lee, UCSF, 2011-

Graduate Students, Rotations

Norman Sharpless, Howard Hughes Scholar in Residence at NIH, 1990-1991
Don Gilbert, Howard Hughes Scholar in Residence at NIH, 1991-1992
Malcolm John, Howard Hughes Scholar in Residence at NIH, 1992-1993
Brian North, BMS, UCSF, 2000
Maria Christophorou, BMS, UCSF, 2000
Prerana Jayakumar, BMS, UCSF, 2000
Leslie Chue, BMS, UCSF, 2001
Bjoern Schwer, University of Heidelberg, Germany, 2001-2002
Cynthia Mysinger, BMS, UCSF, 2002
Eric Chow, PIBS, UCSF, 2005
Edurne Gallastegui, visiting from CRG, Barcelona, Spain
Leonard Chavez, BMS, UCSF, 2008
Lin Ho, CCB, UCSF, 2009
Kevin Mark, PIBS, UCSF, 2010
Coral Zhou, PIBS, UCSF, 2010
Trevor Parry, PIBS, UCSF, 2011
Ivan Vujkovic-Cvijin, BMS, UCSF, 2011
Intelly Lee, Tetrad, UCSF, 2011
Angelina Holcom, Buck Institute, 2018
Andrew Cruz, Buck Institute, 2018

Undergraduates

Yves Colette, Masters in Biology, ULB, 1988-1989
Laila Schriewer, Masters in Biology, ULB, 1989-1990
Wolfgang Fishle, Master Thesis, 1995
Sebastian Luksche, Master Thesis-University of Berlin, 1998
Caroline Orefice, Master Thesis-University of Strasbourg, 1999-2000
Edurne Callistegui, Thesis, University of Barcelona, Spain, 2009

Sabbatical Visiting Professors

Wiebe Kruijer, University of Twente, Netherlands, 2009
Linos Vandekerckove, University of Ghent, Belgium, 2010
Peter Svenson, Karolinska Institute, Sweden, 2015-2016

Teaching

UCSF

1999-2003 BMS 470 Virology

2002-2003 BMS 260 Cell Biology
2005- Cell Biology 245, Discussion Lecture
2005- BMS 208 Molecular Virology

Publications

Google Scholar H-Index 90

Total Citations: 27,570

1. Castillo, M., Nemery, A., **Verdin, E.**, Lefebvre, P.J., and Luyckx, A.S., Circadian profiles of blood glucose and plasma free insulin during treatment with semisynthetic and biosynthetic human insulin, and comparison with conventional monocomponent preparations. *Eur J Clin Pharmacol*, 1983. 25(6): p. 767-71. PMID: 6363099.
2. **Verdin, E.**, Castillo, M., Luyckx, A.S., and Lefebvre, P.J., Similar metabolic effects of pulsatile versus continuous human insulin delivery during euglycemic, hyperinsulinemic glucose clamp in normal man. *Diabetes*, 1984. 33(12): p. 1169-74. PMID: 6389233.
3. **Verdin, E.** and Green, F.W., Jr., VIP and the pancreatic cholera syndrome. *N Engl J Med*, 1984. 310(22): p. 1465-6. PMID: 6325912.
4. **Verdin, E.**, Smitz, S., Thibaut, A., Born, J., Legros, J.J., and Luyckx, A., Adipsic hypernatremia in a patient with pseudotumor cerebri and the primary empty sella syndrome. *J Endocrinol Invest*, 1985. 8(4): p. 369-72. PMID: 4067208.
5. Paolisso, G., Scheen, A.J., **Verdin, E.**, Luyckx, A.S., and Lefebvre, P.J., Insulin oscillations per se do not affect glucose turnover parameters in normal man. *J Clin Endocrinol Metab*, 1986. 63(2): p. 520-5. PMID: 3522623.
6. **Verdin, E.**, Maratos-Flier, E., Carpentier, J.L., and Kahn, C.R., Persistent infection with a nontransforming RNA virus leads to impaired growth factor receptors and response. *J Cell Physiol*, 1986. 128(3): p. 457-65. PMID: 3018005.
7. Maratos-Flier, E., Kao, C.Y., **Verdin, E.**, and King, G.L., Receptor-mediated vectorial transcytosis of epidermal growth factor by Madin-Darby canine kidney cells. *J Cell Biol*, 1987. 105(4): p. 1595-601. PMCID: PMC2114648.
8. **Verdin, E.**, Maratos-Flier, E., Kahn, C.R., Sodoyez, J.C., Sodoyez-Goffaux, F., De Vos, C.J., Lynn, S.P., and Fields, B.N., Visualization of viral clearance in the living animal. *Science*, 1987. 236(4800): p. 439-42. PMID: 3031817.
9. Burny, A., Bex, F., Brasseur, R., Khim, M.C., Delchambre, M., Horth, M., and **Verdin, E.**, Human immunodeficiency virus cell entry: new insights into the fusion mechanism. *J Acquir Immune Defic Syndr*, 1988. 1(6): p. 579-82. PMID: 2852244.
10. **Verdin, E.**, Lynn, S.P., Fields, B.N., and Maratos-Flier, E., Uptake of reovirus serotype 1 by the lungs from the bloodstream is mediated by the viral hemagglutinin. *J Virol*, 1988. 62(2): p. 545-51. PMCID: PMC250566.
11. Delchambre, M., Gheysen, D., Thines, D., Thiriart, C., Jacobs, E., **Verdin, E.**, Horth, M., Burny, A., and Bex, F., The GAG precursor of simian immunodeficiency virus assembles into virus-like particles. *EMBO J*, 1989. 8(9): p. 2653-60. PMCID: PMC401271.
12. **Verdin, E.**, King, G.L., and Maratos-Flier, E., Characterization of a common high-affinity receptor for reovirus serotypes 1 and 3 on endothelial cells. *J Virol*, 1989. 63(3): p. 1318-25. PMCID: PMC247829.

13. **Verdin, E.**, Becker, N., Bex, F., Droogmans, L., and Burny, A., Identification and characterization of an enhancer in the coding region of the genome of human immunodeficiency virus type 1. *Proc Natl Acad Sci U S A*, 1990. 87(12): p. 4874-8. PMID: PMC54221.
14. **Verdin, E.**, DNase I-hypersensitive sites are associated with both long terminal repeats and with the intragenic enhancer of integrated human immunodeficiency virus type 1. *J Virol*, 1991. 65(12): p. 6790-9. PMID: PMC250767.
15. Van Lint, C., Burny, A., and **Verdin, E.**, The intragenic enhancer of human immunodeficiency virus type 1 contains functional AP-1 binding sites. *J Virol*, 1991. 65(12): p. 7066-72. PMID: PMC250832.
16. Montgomery, L.B., Kao, C.Y., **Verdin, E.**, Cahill, C., and Maratos-Flier, E., Infection of a polarized epithelial cell line with wild-type reovirus leads to virus persistence and altered cellular function. *J Gen Virol*, 1991. 72 (Pt 12): p. 2939-46. PMID: 1765767.
17. Sharpless, N., Gilbert, D., Vandercam, B., Zhou, J.M., **Verdin, E.**, Ronnett, G., Friedman, E., and Dubois-Dalcq, M., The restricted nature of HIV-1 tropism for cultured neural cells. *Virology*, 1992. 191(2): p. 813-25. PMID: 1448925.
18. Sharpless, N.E., O'Brien, W.A., **Verdin, E.**, Kufra, C.V., Chen, I.S., and Dubois-Dalcq, M., Human immunodeficiency virus type 1 tropism for brain microglial cells is determined by a region of the env glycoprotein that also controls macrophage tropism. *J Virol*, 1992. 66(4): p. 2588-93. PMID: PMC289063.
19. **Verdin, E.**, Paras, P., Jr., and Van Lint, C., Chromatin disruption in the promoter of human immunodeficiency virus type 1 during transcriptional activation. *EMBO J*, 1993. 12(8): p. 3249-59. PMID: PMC413592.
20. el Kharroubi, A. and **Verdin, E.**, Protein-DNA interactions within DNase I-hypersensitive sites located downstream of the HIV-1 promoter. *J Biol Chem*, 1994. 269(31): p. 19916-24. PMID: 8051074.
21. Van Lint, C., Ghysdael, J., Paras, P., Jr., Burny, A., and **Verdin, E.**, A transcriptional regulatory element is associated with a nuclease-hypersensitive site in the pol gene of human immunodeficiency virus type 1. *J Virol*, 1994. 68(4): p. 2632-48. PMID: PMC236741.
22. **Verdin, E.** and Van Lint, C., Internal transcriptional regulatory elements in HIV-1 and other retroviruses. *Cell Mol Biol (Noisy-le-grand)*, 1995. 41(3): p. 365-9. PMID: 7580829.
23. Emiliani, S., Van Lint, C., Fischle, W., Paras, P., Jr., Ott, M., Brady, J., and **Verdin, E.**, A point mutation in the HIV-1 Tat responsive element is associated with postintegration latency. *Proc Natl Acad Sci U S A*, 1996. 93(13): p. 6377-81. PMID: PMC39030.
24. Van Lint, C., Emiliani, S., Ott, M., and **Verdin, E.**, Transcriptional activation and chromatin remodeling of the HIV-1 promoter in response to histone acetylation. *EMBO J*, 1996. 15(5): p. 1112-20. PMID: PMC450009.
25. Van Lint, C., Emiliani, S., and **Verdin, E.**, The expression of a small fraction of cellular genes is changed in response to histone hyperacetylation. *Gene Expr*, 1996. 5(4-5): p. 245-53. PMID: 8723390.
26. Van Lint, C., Amella, C.A., Emiliani, S., John, M., Jie, T., and **Verdin, E.**, Transcription factor binding sites downstream of the human immunodeficiency virus type 1 transcription start site are important for virus infectivity. *J Virol*, 1997. 71(8): p. 6113-27. PMID: PMC191872.
27. Sheridan, P.L., Mayall, T.P., **Verdin, E.**, and Jones, K.A., Histone acetyltransferases regulate HIV-1 enhancer activity in vitro. *Genes Dev*, 1997. 11(24): p. 3327-40. PMID: PMC316802.

28. Ott, M., Emiliani, S., Van Lint, C., Herbein, G., Lovett, J., Chirmule, N., McCloskey, T., Pahwa, S., and **Verdin, E.**, Immune hyperactivation of HIV-1-infected T cells mediated by Tat and the CD28 pathway. *Science*, 1997. 275(5305): p. 1481-5. PMID: 9045614.
29. McCloskey, T.W., Ott, M., Tribble, E., Khan, S.A., Teichberg, S., Paul, M.O., Pahwa, S., **Verdin, E.**, and Chirmule, N., Dual role of HIV Tat in regulation of apoptosis in T cells. *J Immunol*, 1997. 158(2): p. 1014-9. PMID: 8993024.
30. Emiliani, S., Fischle, W., Ott, M., Van Lint, C., Amella, C.A., and **Verdin, E.**, Mutations in the tat gene are responsible for human immunodeficiency virus type 1 postintegration latency in the U1 cell line. *J Virol*, 1998. 72(2): p. 1666-70. PMCID: PMC124653.
31. Emiliani, S., Fischle, W., Van Lint, C., Al-Abed, Y., and **Verdin, E.**, Characterization of a human RPD3 ortholog, HDAC3. *Proc Natl Acad Sci U S A*, 1998. 95(6): p. 2795-800. PMCID: PMC19648.
32. Herbein, G., Mahlknecht, U., Batliwalla, F., Gregersen, P., Pappas, T., Butler, J., O'Brien, W.A., and **Verdin, E.**, Apoptosis of CD8+ T cells is mediated by macrophages through interaction of HIV gp120 with chemokine receptor CXCR4. *Nature*, 1998. 395(6698): p. 189-94. PMID: 9744279.
33. Herbein, G., Van Lint, C., Lovett, J.L., and **Verdin, E.**, Distinct mechanisms trigger apoptosis in human immunodeficiency virus type 1-infected and in uninfected bystander T lymphocytes. *J Virol*, 1998. 72(1): p. 660-70. PMCID: PMC109420.
34. Kiermer, V., Van Lint, C., Briclet, D., Vanhulle, C., Kettmann, R., **Verdin, E.**, Burny, A., and Droogmans, L., An interferon regulatory factor binding site in the U5 region of the bovine leukemia virus long terminal repeat stimulates Tax-independent gene expression. *J Virol*, 1998. 72(7): p. 5526-34. PMCID: PMC110197.
35. Ott, M., Lovett, J.L., Mueller, L., and **Verdin, E.**, Superinduction of IL-8 in T cells by HIV-1 Tat protein is mediated through NF-kappaB factors. *J Immunol*, 1998. 160(6): p. 2872-80. PMID: 9510190.
36. Richon, V.M., Emiliani, S., **Verdin, E.**, Webb, Y., Breslow, R., Rifkind, R.A., and Marks, P.A., A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases. *Proc Natl Acad Sci U S A*, 1998. 95(6): p. 3003-7. PMCID: PMC19684.
37. Ott, M., Schnolzer, M., Garnica, J., Fischle, W., Emiliani, S., Rackwitz, H.R., and Verdin, E., Acetylation of the HIV-1 Tat protein by p300 is important for its transcriptional activity. *Curr Biol*, 1999. 9(24): p. 1489-92. PMID: 10607594.
38. Mahlknecht, U., Hoelzer, D., Bucala, R., and **Verdin, E.**, Cloning and characterization of the murine histone deacetylase (HDAC3). *Biochem Biophys Res Commun*, 1999. 263(2): p. 482-90. PMID: 10491319.
39. Mahlknecht, U., Emiliani, S., Najfeld, V., Young, S., and **Verdin, E.**, Genomic organization and chromosomal localization of the human histone deacetylase 3 gene. *Genomics*, 1999. 56(2): p. 197-202. PMID: 10051405.
40. Mahlknecht, U., Bucala, R., and **Verdin, E.**, Assignment of the histone deacetylase gene (Hdac3) to mouse chromosome 18B3 by in situ hybridization. *Cytogenet Cell Genet*, 1999. 84(3-4): p. 192-3. PMID: 10393429.
41. Mahlknecht, U., Bucala, R., Hoelzer, D., and **Verdin, E.**, High resolution physical mapping of human HDAC3, a potential tumor suppressor gene in the 5q31 region. *Cytogenet Cell Genet*, 1999. 86(3-4): p. 237-9. PMID: 10575214.

42. Fischle, W., Emiliani, S., Hendzel, M.J., Nagase, T., Nomura, N., Voelter, W., and **Verdin, E.**, A new family of human histone deacetylases related to *Saccharomyces cerevisiae* HDA1p. *J Biol Chem*, 1999. 274(17): p. 11713-20. PMID: 10206986.
43. Critchfield, J.W., Ho, O., Roberts, B.D., Van Lint, C., **Verdin, E.**, and Butera, S.T., Isoquinolinesulphonamide derivatives inhibit transcriptional elongation of human immunodeficiency virus type 1 RNA in a promyelocytic model of latency. *Antivir Chem Chemother*, 1999. 10(5): p. 275-84. PMID: 10574182.
44. Guenther, M.G., Lane, W.S., Fischle, W., **Verdin, E.**, Lazar, M.A., and Shiekhatter, R., A core SMRT corepressor complex containing HDAC3 and TBL1, a WD40-repeat protein linked to deafness. *Genes Dev*, 2000. 14(9): p. 1048-57. PMCID: PMC316569.
45. Huynh, K.D., Fischle, W., **Verdin, E.**, and Bardwell, V.J., BCoR, a novel corepressor involved in BCL-6 repression. *Genes Dev*, 2000. 14(14): p. 1810-23. PMCID: PMC316791.
46. Kruhlak, M.J., Lever, M.A., Fischle, W., **Verdin, E.**, Bazett-Jones, D.P., and Hendzel, M.J., Reduced mobility of the alternate splicing factor (ASF) through the nucleoplasm and steady state speckle compartments. *J Cell Biol*, 2000. 150(1): p. 41-51. PMCID: PMC2185567.
47. **Verdin, E.**, Kobisch, M., Bove, J.M., Garnier, M., and Saillard, C., Use of an internal control in a nested-PCR assay for *Mycoplasma hyopneumoniae* detection and quantification in tracheobronchiolar washings from pigs. *Mol Cell Probes*, 2000. 14(6): p. 365-72. PMID: 11090266.
48. Wang, J.K., Kiyokawa, E., **Verdin, E.**, and Trono, D., The Nef protein of HIV-1 associates with rafts and primes T cells for activation. *Proc Natl Acad Sci U S A*, 2000. 97(1): p. 394-9. PMCID: PMC26674.
49. Kruhlak, M.J., Hendzel, M.J., Fischle, W., Bertos, N.R., Hameed, S., Yang, X.J., **Verdin, E.**, and Bazett-Jones, D.P., Regulation of global acetylation in mitosis through loss of histone acetyltransferases and deacetylases from chromatin. *J Biol Chem*, 2001. 276(41): p. 38307-19. PMID: 11479283.
50. Jordan, A., Defechereux, P., and **Verdin, E.**, The site of HIV-1 integration in the human genome determines basal transcriptional activity and response to Tat transactivation. *EMBO J*, 2001. 20(7): p. 1726-38. PMCID: PMC145503.
51. Geenen, V. and **Verdin, E.**, [Egg-cell complex, molecular embryology, human genome, then, human proteome]. *Rev Med Liege*, 2001. 56(3): p. 170. PMID: 11338789.
52. Fischle, W., Kiermer, V., Dequiedt, F., and **Verdin, E.**, The emerging role of class II histone deacetylases. *Biochem Cell Biol*, 2001. 79(3): p. 337-48. PMID: 11467747.
53. Fischle, W., Dequiedt, F., Fillion, M., Hendzel, M.J., Voelter, W., and **Verdin, E.**, Human HDAC7 histone deacetylase activity is associated with HDAC3 in vivo. *J Biol Chem*, 2001. 276(38): p. 35826-35. PMID: 11466315.
54. Chen, L., Fischle, W., **Verdin, E.**, and Greene, W.C., Duration of nuclear NF-kappaB action regulated by reversible acetylation. *Science*, 2001. 293(5535): p. 1653-7. PMID: 11533489.
55. Borra, M.T., O'Neill, F.J., Jackson, M.D., Marshall, B., **Verdin, E.**, Foltz, K.R., and Denu, J.M., Conserved enzymatic production and biological effect of O-acetyl-ADP-ribose by silent information regulator 2-like NAD⁺-dependent deacetylases. *J Biol Chem*, 2002. 277(15): p. 12632-41. PMID: 11812793.
56. Deroanne, C.F., Bonjean, K., Servotte, S., Devy, L., Colige, A., Clause, N., Blacher, S., **Verdin, E.**, Foidart, J.M., Nusgens, B.V., and Castronovo, V., Histone deacetylases inhibitors as anti-angiogenic agents altering vascular endothelial growth factor signaling. *Oncogene*, 2002. 21(3): p. 427-36. PMID: 11821955.

57. Dorr, A., Kiermer, V., Pedal, A., Rackwitz, H.R., Henklein, P., Schubert, U., Zhou, M.M., **Verdin, E.**, and Ott, M., Transcriptional synergy between Tat and PCAF is dependent on the binding of acetylated Tat to the PCAF bromodomain. *EMBO J*, 2002. 21(11): p. 2715-23. PMCID: PMC125383.
58. Fischle, W., Dequiedt, F., Hendzel, M.J., Guenther, M.G., Lazar, M.A., Voelter, W., and **Verdin, E.**, Enzymatic activity associated with class II HDACs is dependent on a multiprotein complex containing HDAC3 and SMRT/N-CoR. *Mol Cell*, 2002. 9(1): p. 45-57. PMID: 11804585.
59. Mujtaba, S., He, Y., Zeng, L., Farooq, A., Carlson, J.E., Ott, M., **Verdin, E.**, and Zhou, M.M., Structural basis of lysine-acetylated HIV-1 Tat recognition by PCAF bromodomain. *Mol Cell*, 2002. 9(3): p. 575-86. PMID: 11931765.
60. Murphy, J.C., Fischle, W., **Verdin, E.**, and Sinclair, J.H., Control of cytomegalovirus lytic gene expression by histone acetylation. *EMBO J*, 2002. 21(5): p. 1112-20. PMCID: PMC125876.
61. Schwer, B., North, B.J., Frye, R.A., Ott, M., and **Verdin, E.**, The human silent information regulator (Sir)2 homologue hSIRT3 is a mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase. *J Cell Biol*, 2002. 158(4): p. 647-57. PMCID: PMC2174009.
62. **Verdin, E.**, Dequiedt, F., and Kasler, H.G., Class II histone deacetylases: versatile regulators. *Trends Genet*, 2003. 19(5): p. 286-93. PMID: 12711221.
63. North, B.J., Marshall, B.L., Borra, M.T., Denu, J.M., and **Verdin, E.**, The human Sir2 ortholog, SIRT2, is an NAD⁺-dependent tubulin deacetylase. *Mol Cell*, 2003. 11(2): p. 437-44. PMID: 12620231.
64. Kaehlecke, K., Dorr, A., Hetzer-Egger, C., Kiermer, V., Henklein, P., Schnoelzer, M., Loret, E., Cole, P.A., **Verdin, E.**, and Ott, M., Acetylation of Tat defines a cyclinT1-independent step in HIV transactivation. *Mol Cell*, 2003. 12(1): p. 167-76. PMID: 12887902.
65. Jordan, A., Bisgrove, D., and **Verdin, E.**, HIV reproducibly establishes a latent infection after acute infection of T cells in vitro. *EMBO J*, 2003. 22(8): p. 1868-77. PMCID: PMC154479.
66. Heltweg, B., Dequiedt, F., **Verdin, E.**, and Jung, M., Nonisotopic substrate for assaying both human zinc and NAD⁺-dependent histone deacetylases. *Anal Biochem*, 2003. 319(1): p. 42-8. PMID: 12842105.
67. Dequiedt, F., Kasler, H., Fischle, W., Kiermer, V., Weinstein, M., Herndier, B.G., and **Verdin, E.**, HDAC7, a thymus-specific class II histone deacetylase, regulates Nur77 transcription and TCR-mediated apoptosis. *Immunity*, 2003. 18(5): p. 687-98. PMID: 12753745.
68. Williams, S.A., Chen, L.F., Kwon, H., Fenard, D., Bisgrove, D., **Verdin, E.**, and Greene, W.C., Prostratin antagonizes HIV latency by activating NF-kappaB. *J Biol Chem*, 2004. 279(40): p. 42008-17. PMID: 15284245.
69. Waltregny, D., North, B., Van Mellaert, F., de Leval, J., **Verdin, E.**, and Castronovo, V., Screening of histone deacetylases (HDAC) expression in human prostate cancer reveals distinct class I HDAC profiles between epithelial and stromal cells. *Eur J Histochem*, 2004. 48(3): p. 273-90. PMID: 15590418.
70. Waltregny, D., De Leval, L., Glenisson, W., Ly Tran, S., North, B.J., Bellahcene, A., Weidle, U., **Verdin, E.**, and Castronovo, V., Expression of histone deacetylase 8, a class I histone deacetylase, is restricted to cells showing smooth muscle differentiation in normal human tissues. *Am J Pathol*, 2004. 165(2): p. 553-64. PMCID: PMC1618574.
71. **Verdin, E.**, Dequiedt, F., and Kasler, H., HDAC7 regulates apoptosis in developing thymocytes. *Novartis Found Symp*, 2004. 259: p. 115-29; discussion 129-31, 163-9. PMID: 15171250.

72. **Verdin, E.**, Dequiedt, F., Fischle, W., Frye, R., Marshall, B., and North, B., Measurement of mammalian histone deacetylase activity. *Methods Enzymol*, 2004. 377: p. 180-96. PMID: 14979025.
73. Ott, M., Dorr, A., Hetzer-Egger, C., Kaehlcke, K., Schnolzer, M., Henklein, P., Cole, P., Zhou, M.M., and **Verdin, E.**, Tat acetylation: a regulatory switch between early and late phases in HIV transcription elongation. *Novartis Found Symp*, 2004. 259: p. 182-93; discussion 193-6, 223-5. PMID: 15171254.
74. North, B.J. and **Verdin, E.**, Sirtuins: Sir2-related NAD-dependent protein deacetylases. *Genome Biol*, 2004. 5(5): p. 224. PMID: PMC416462.
75. Heltweg, B., Dequiedt, F., Marshall, B.L., Brauch, C., Yoshida, M., Nishino, N., **Verdin, E.**, and Jung, M., Subtype selective substrates for histone deacetylases. *J Med Chem*, 2004. 47(21): p. 5235-43. PMID: 15456267.
76. Wittich, S., Scherf, H., Xie, C., Heltweg, B., Dequiedt, F., **Verdin, E.**, Gerhauser, C., and Jung, M., Effect of inhibitors of histone deacetylase on the induction of cell differentiation in murine and human erythroleukemia cell lines. *Anticancer Drugs*, 2005. 16(6): p. 635-43. PMID: 15930892.
77. Waltregny, D., Glenisson, W., Tran, S.L., North, B.J., **Verdin, E.**, Colige, A., and Castronovo, V., Histone deacetylase HDAC8 associates with smooth muscle alpha-actin and is essential for smooth muscle cell contractility. *FASEB J*, 2005. 19(8): p. 966-8. PMID: 15772115.
78. Parra, M., Kasler, H., McKinsey, T.A., Olson, E.N., and **Verdin, E.**, Protein kinase D1 phosphorylates HDAC7 and induces its nuclear export after T-cell receptor activation. *J Biol Chem*, 2005. 280(14): p. 13762-70. PMID: 15623513.
79. Pagans, S., Pedal, A., North, B.J., Kaehlcke, K., Marshall, B.L., Dorr, A., Hetzer-Egger, C., Henklein, P., Frye, R., McBurney, M.W., Hruby, H., Jung, M., **Verdin, E.**, and Ott, M., SIRT1 regulates HIV transcription via Tat deacetylation. *PLoS Biol*, 2005. 3(2): p. e41. PMID: PMC546329.
80. Olaharski, A.J., Rine, J., Marshall, B.L., Babiarz, J., Zhang, L., **Verdin, E.**, and Smith, M.T., The flavoring agent dihydrocoumarin reverses epigenetic silencing and inhibits sirtuin deacetylases. *PLoS Genet*, 2005. 1(6): p. e77. PMID: PMC1315280.
81. North, B.J., Schwer, B., Ahuja, N., Marshall, B., and **Verdin, E.**, Preparation of enzymatically active recombinant class III protein deacetylases. *Methods*, 2005. 36(4): p. 338-45. PMID: 16091304.
82. Lewinski, M.K., Bisgrove, D., Shinn, P., Chen, H., Hoffmann, C., Hannenhalli, S., **Verdin, E.**, Berry, C.C., Ecker, J.R., and Bushman, F.D., Genome-wide analysis of chromosomal features repressing human immunodeficiency virus transcription. *J Virol*, 2005. 79(11): p. 6610-9. PMID: PMC1112149.
83. Jayakumar, P., Berger, I., Autschbach, F., Weinstein, M., Funke, B., **Verdin, E.**, Goldsmith, M.A., and Keppler, O.T., Tissue-resident macrophages are productively infected ex vivo by primary X4 isolates of human immunodeficiency virus type 1. *J Virol*, 2005. 79(8): p. 5220-6. PMID: PMC1069582.
84. Bisgrove, D., Lewinski, M., Bushman, F., and **Verdin, E.**, Molecular mechanisms of HIV-1 proviral latency. *Expert Rev Anti Infect Ther*, 2005. 3(5): p. 805-14. PMID: 16207172.
85. Williams, S.A., Chen, L.F., Kwon, H., Ruiz-Jarabo, C.M., **Verdin, E.**, and Greene, W.C., NF-kappaB p50 promotes HIV latency through HDAC recruitment and repression of transcriptional initiation. *EMBO J*, 2006. 25(1): p. 139-49. PMID: PMC1356344.

86. Trapp, J., Jochum, A., Meier, R., Saunders, L., Marshall, B., Kunick, C., **Verdin, E.**, Goekjian, P., Sippl, W., and Jung, M., Adenosine mimetics as inhibitors of NAD⁺-dependent histone deacetylases, from kinase to sirtuin inhibition. *J Med Chem*, 2006. 49(25): p. 7307-16. PMID: 17149860.
87. Schwer, B., Bunkenborg, J., Verdin, R.O., Andersen, J.S., and **Verdin, E.**, Reversible lysine acetylation controls the activity of the mitochondrial enzyme acetyl-CoA synthetase 2. *Proc Natl Acad Sci U S A*, 2006. 103(27): p. 10224-9. PMID: PMC1502439.
88. Saunders, L.R. and **Verdin, E.**, Ornithine decarboxylase activity in tumor cell lines correlates with sensitivity to cell death induced by histone deacetylase inhibitors. *Mol Cancer Ther*, 2006. 5(11): p. 2777-85. PMID: 17121924.
89. Parrella, G., **Verdin, E.**, Gognalons, P., and Marchoux, G., Detection and characterization of tobacco mild green mosaic virus (TMGMV) large type isolate from trailing petunia in France. *Commun Agric Appl Biol Sci*, 2006. 71(3 Pt B): p. 1237-44. PMID: 17390885.
90. Mahmoudi, T., Parra, M., Vries, R.G., Kauder, S.E., Verrijzer, C.P., Ott, M., and **Verdin, E.**, The SWI/SNF chromatin-remodeling complex is a cofactor for Tat transactivation of the HIV promoter. *J Biol Chem*, 2006. 281(29): p. 19960-8. PMID: 16687403.
91. **Verdin, E.**, AROuSing SIRT1: identification of a novel endogenous SIRT1 activator. *Mol Cell*, 2007. 28(3): p. 354-6. PMID: 17996699.
92. Saunders, L.R. and **Verdin, E.**, Sirtuins: critical regulators at the crossroads between cancer and aging. *Oncogene*, 2007. 26(37): p. 5489-504. PMID: 17694089.
93. Parra, M., Mahmoudi, T., and **Verdin, E.**, Myosin phosphatase dephosphorylates HDAC7, controls its nucleocytoplasmic shuttling, and inhibits apoptosis in thymocytes. *Genes Dev*, 2007. 21(6): p. 638-43. PMID: PMC1820937.
94. Pagan, J.K., Arnold, J., Hanchard, K.J., Kumar, R., Bruno, T., Jones, M.J., Richard, D.J., Forrest, A., Spurdle, A., **Verdin, E.**, Crossley, M., Fanciulli, M., Chenevix-Trench, G., Young, D.B., and Khanna, K.K., A novel corepressor, BCoR-L1, represses transcription through an interaction with CtBP. *J Biol Chem*, 2007. 282(20): p. 15248-57. PMID: 17379597.
95. Ohnuma-Ishikawa, K., Morio, T., Yamada, T., Sugawara, Y., Ono, M., Nagasawa, M., Yasuda, A., Morimoto, C., Ohnuma, K., Dang, N.H., Hosoi, H., **Verdin, E.**, and Mizutani, S., Knockdown of XAB2 enhances all-trans retinoic acid-induced cellular differentiation in all-trans retinoic acid-sensitive and -resistant cancer cells. *Cancer Res*, 2007. 67(3): p. 1019-29. PMID: 17283134.
96. North, B.J. and **Verdin, E.**, Mitotic regulation of SIRT2 by cyclin-dependent kinase 1-dependent phosphorylation. *J Biol Chem*, 2007. 282(27): p. 19546-55. PMID: 17488717.
97. North, B.J. and **Verdin, E.**, Interphase nucleo-cytoplasmic shuttling and localization of SIRT2 during mitosis. *PLoS One*, 2007. 2(8): p. e784. PMID: PMC1949146.
98. Lombard, D.B., Alt, F.W., Cheng, H.L., Bunkenborg, J., Streeper, R.S., Mostoslavsky, R., Kim, J., Yancopoulos, G., Valenzuela, D., Murphy, A., Yang, Y., Chen, Y., Hirschey, M.D., Bronson, R.T., Haigis, M., Guarente, L.P., Farese, R.V., Jr., Weissman, S., **Verdin, E.**, and Schwer, B., Mammalian Sir2 homolog SIRT3 regulates global mitochondrial lysine acetylation. *Mol Cell Biol*, 2007. 27(24): p. 8807-14. PMID: PMC2169418.
99. Krennhrubec, K., Marshall, B.L., Hedglin, M., **Verdin, E.**, and Ulrich, S.M., Design and evaluation of 'Linkerless' hydroxamic acids as selective HDAC8 inhibitors. *Bioorg Med Chem Lett*, 2007. 17(10): p. 2874-8. PMID: 17346959.
100. Kasler, H.G. and **Verdin, E.**, Histone deacetylase 7 functions as a key regulator of genes involved in both positive and negative selection of thymocytes. *Mol Cell Biol*, 2007. 27(14): p. 5184-200.

101. Bisgrove, D.A., Mahmoudi, T., Henklein, P., and **Verdin, E.**, Conserved P-TEFb-interacting domain of BRD4 inhibits HIV transcription. *Proc Natl Acad Sci U S A*, 2007. 104(34): p. 13690-5. PMID: PMC1959443.
102. Barrett, A., Santangelo, S., Tan, K., Catchpole, S., Roberts, K., Spencer-Dene, B., Hall, D., Scibetta, A., Burchell, J., **Verdin, E.**, Freemont, P., and Taylor-Papadimitriou, J., Breast cancer associated transcriptional repressor PLU-1/JARID1B interacts directly with histone deacetylases. *Int J Cancer*, 2007. 121(2): p. 265-75. PMID: 17373667.
103. Ahuja, N., Schwer, B., Carobbio, S., Waltregny, D., North, B.J., Castronovo, V., Maechler, P., and **Verdin, E.**, Regulation of insulin secretion by SIRT4, a mitochondrial ADP-ribosyltransferase. *J Biol Chem*, 2007. 282(46): p. 33583-92. PMID: 17715127.
104. Wang, S., Li, X., Parra, M., **Verdin, E.**, Bassel-Duby, R., and Olson, E.N., Control of endothelial cell proliferation and migration by VEGF signaling to histone deacetylase 7. *Proc Natl Acad Sci U S A*, 2008. 105(22): p. 7738-43. PMID: PMC2409381.
105. **Verdin, E.**, Regulation of human immunodeficiency virus-1 latency and its reactivation. *Bull Mem Acad R Med Belg*, 2008. 163(6): p. 355-64; discussion 364-5. PMID: 19445107.
106. Uciechowska, U., Schemies, J., Neugebauer, R.C., Huda, E.M., Schmitt, M.L., Meier, R., **Verdin, E.**, Jung, M., and Sippl, W., Thiobarbiturates as sirtuin inhibitors: virtual screening, free-energy calculations, and biological testing. *ChemMedChem*, 2008. 3(12): p. 1965-76. PMID: 18985648.
107. Scott, G.K., Marx, C., Berger, C.E., Saunders, L.R., **Verdin, E.**, Schafer, S., Jung, M., and Benz, C.C., Destabilization of ERBB2 transcripts by targeting 3' untranslated region messenger RNA associated HuR and histone deacetylase-6. *Mol Cancer Res*, 2008. 6(7): p. 1250-8. PMID: PMC2583372.
108. Schwer, B. and **Verdin, E.**, Conserved metabolic regulatory functions of sirtuins. *Cell Metab*, 2008. 7(2): p. 104-12. PMID: 18249170.
109. Schafer, S., Saunders, L., Eliseeva, E., Velena, A., Jung, M., Schwienhorst, A., Strasser, A., Dickmanns, A., Ficner, R., Schlimme, S., Sippl, W., **Verdin, E.**, and Jung, M., Phenylalanine-containing hydroxamic acids as selective inhibitors of class IIb histone deacetylases (HDACs). *Bioorg Med Chem*, 2008. 16(4): p. 2011-33. PMID: 18054239.
110. Neugebauer, R.C., Uchiechowska, U., Meier, R., Hruby, H., Valkov, V., **Verdin, E.**, Sippl, W., and Jung, M., Structure-activity studies on splitomicin derivatives as sirtuin inhibitors and computational prediction of binding mode. *J Med Chem*, 2008. 51(5): p. 1203-13. PMID: 18269226.
111. Schafer, S., Saunders, L., Schlimme, S., Valkov, V., Wagner, J.M., Kratz, F., Sippl, W., **Verdin, E.**, and Jung, M., Pyridylalanine-containing hydroxamic acids as selective HDAC6 inhibitors. *ChemMedChem*, 2009. 4(2): p. 283-90. PMID: 19090524.
112. Saunders, L.R. and **Verdin, E.**, Cell biology. Stress response and aging. *Science*, 2009. 323(5917): p. 1021-2. PMID: 19229027.
113. Pintchovski, S.A., Peebles, C.L., Kim, H.J., **Verdin, E.**, and Finkbeiner, S., The serum response factor and a putative novel transcription factor regulate expression of the immediate-early gene *Arc/Arg3.1* in neurons. *J Neurosci*, 2009. 29(5): p. 1525-37. PMID: PMC2874324.
114. Mottet, D., Pirotte, S., Lamour, V., Hagedorn, M., Javerzat, S., Bikfalvi, A., Bellahcene, A., **Verdin, E.**, and Castronovo, V., HDAC4 represses p21(WAF1/Cip1) expression in human cancer cells through a Sp1-dependent, p53-independent mechanism. *Oncogene*, 2009. 28(2): p. 243-56. PMID: 18850004.

115. Kauder, S.E., Bosque, A., Lindqvist, A., Planelles, V., and **Verdin, E.**, Epigenetic regulation of HIV-1 latency by cytosine methylation. *PLoS Pathog*, 2009. 5(6): p. e1000495. PMCID: PMC2695767.
116. Hirschey, M.D., Shimazu, T., Huang, J.Y., and **Verdin, E.**, Acetylation of mitochondrial proteins. *Methods Enzymol*, 2009. 457: p. 137-47. PMID: 19426866.
117. Cooper, H.M., Huang, J.Y., **Verdin, E.**, and Spelbrink, J.N., A new splice variant of the mouse SIRT3 gene encodes the mitochondrial precursor protein. *PLoS One*, 2009. 4(3): p. e4986. PMCID: PMC2659428.
118. Blazkova, J., Trejbalova, K., Gondois-Rey, F., Halfon, P., Philibert, P., Guiguen, A., **Verdin, E.**, Olive, D., Van Lint, C., Hejnar, J., and Hirsch, I., CpG methylation controls reactivation of HIV from latency. *PLoS Pathog*, 2009. 5(8): p. e1000554. PMCID: PMC2722084.
119. Yan, W., Si, Y., Slaymaker, S., Li, J., Zheng, H., Young, D.L., Aslanian, A., Saunders, L., **Verdin, E.**, and Charo, I.F., Zmynd15 encodes a histone deacetylase-dependent transcriptional repressor essential for spermiogenesis and male fertility. *J Biol Chem*, 2010. 285(41): p. 31418-26. PMCID: PMC2951216.
120. **Verdin, E.**, Hirschey, M.D., Finley, L.W., and Haigis, M.C., Sirtuin regulation of mitochondria: energy production, apoptosis, and signaling. *Trends Biochem Sci*, 2010. 35(12): p. 669-75. PMCID: PMC2992946.
121. Trono, D., Van Lint, C., Rouzioux, C., **Verdin, E.**, Barre-Sinoussi, F., Chun, T.W., and Chomont, N., HIV persistence and the prospect of long-term drug-free remissions for HIV-infected individuals. *Science*, 2010. 329(5988): p. 174-80. PMID: 20616270.
122. Shimazu, T., Hirschey, M.D., Huang, J.Y., Ho, L.T., and **Verdin, E.**, Acetate metabolism and aging: An emerging connection. *Mech Ageing Dev*, 2010. 131(7-8): p. 511-6. PMID: 20478325.
123. Shimazu, T., Hirschey, M.D., Hua, L., Dittenhafer-Reed, K.E., Schwer, B., Lombard, D.B., Li, Y., Bunkenborg, J., Alt, F.W., Denu, J.M., Jacobson, M.P., and **Verdin, E.**, SIRT3 deacetylates mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase 2 and regulates ketone body production. *Cell Metab*, 2010. 12(6): p. 654-61. PMCID: PMC3310379.
124. Saunders, L.R., Sharma, A.D., Tawney, J., Nakagawa, M., Okita, K., Yamanaka, S., Willenbring, H., and **Verdin, E.**, miRNAs regulate SIRT1 expression during mouse embryonic stem cell differentiation and in adult mouse tissues. *Aging (Albany NY)*, 2010. 2(7): p. 415-31. PMCID: PMC2933889.
125. Qiu, X., Brown, K., Hirschey, M.D., **Verdin, E.**, and Chen, D., Calorie restriction reduces oxidative stress by SIRT3-mediated SOD2 activation. *Cell Metab*, 2010. 12(6): p. 662-7. PMID: 21109198.
126. Parra, M. and **Verdin, E.**, Regulatory signal transduction pathways for class IIa histone deacetylases. *Curr Opin Pharmacol*, 2010. 10(4): p. 454-60. PMID: 20447866.
127. Pagans, S., Kauder, S.E., Kaehlcke, K., Sakane, N., Schroeder, S., Dormeyer, W., Trievel, R.C., **Verdin, E.**, Schnolzer, M., and Ott, M., The Cellular lysine methyltransferase Set7/9-KMT7 binds HIV-1 TAR RNA, monomethylates the viral transactivator Tat, and enhances HIV transcription. *Cell Host Microbe*, 2010. 7(3): p. 234-44. PMCID: PMC2844784.
128. Ott, M. and **Verdin, E.**, HAT trick: p300, small molecule, inhibitor. *Chem Biol*, 2010. 17(5): p. 417-8. PMID: 20534339.
129. Malik, S., Jiang, S., Garee, J.P., **Verdin, E.**, Lee, A.V., O'Malley, B.W., Zhang, M., Belaguli, N.S., and Oesterreich, S., Histone deacetylase 7 and FoxA1 in estrogen-mediated repression of RPRM. *Mol Cell Biol*, 2010. 30(2): p. 399-412. PMCID: PMC2798473.

130. Huang, J.Y., Hirschey, M.D., Shimazu, T., Ho, L., and **Verdin, E.**, Mitochondrial sirtuins. *Biochim Biophys Acta*, 2010. 1804(8): p. 1645-51. PMID: 20060508.
131. Hirschey, M.D., Shimazu, T., Goetzman, E., Jing, E., Schwer, B., Lombard, D.B., Grueter, C.A., Harris, C., Biddinger, S., Ilkayeva, O.R., Stevens, R.D., Li, Y., Saha, A.K., Ruderman, N.B., Bain, J.R., Newgard, C.B., Farese, R.V., Jr., Alt, F.W., Kahn, C.R., and **Verdin, E.**, SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. *Nature*, 2010. 464(7285): p. 121-5. PMCID: PMC2841477.
132. Blagosklonny, M.V., Campisi, J., Sinclair, D.A., Bartke, A., Blasco, M.A., Bonner, W.M., Bohr, V.A., Brosh, R.M., Jr., Brunet, A., Depinho, R.A., Donehower, L.A., Finch, C.E., Finkel, T., Gorospe, M., Gudkov, A.V., Hall, M.N., Hekimi, S., Helfand, S.L., Karlseder, J., Kenyon, C., Kroemer, G., Longo, V., Nussenzweig, A., Osiewacz, H.D., Peeper, D.S., Rando, T.A., Rudolph, K.L., Sassone-Corsi, P., Serrano, M., Sharpless, N.E., Skulachev, V.P., Tilly, J.L., Tower, J., **Verdin, E.**, and Vijg, J., Impact papers on aging in 2009. *Aging* (Albany NY), 2010. 2(3): p. 111-21. PMCID: PMC2871240.
133. Baur, J.A., Chen, D., Chini, E.N., Chua, K., Cohen, H.Y., de Cabo, R., Deng, C., Dimmeler, S., Gius, D., Guarente, L.P., Helfand, S.L., Imai, S., Itoh, H., Kadowaki, T., Koya, D., Leeuwenburgh, C., McBurney, M., Nabeshima, Y., Neri, C., Oberdoerffer, P., Pestell, R.G., Rogina, B., Sadoshima, J., Sartorelli, V., Serrano, M., Sinclair, D.A., Steegborn, C., Tatar, M., Tissenbaum, H.A., Tong, Q., Tsubota, K., Vaquero, A., and **Verdin, E.**, Dietary restriction: standing up for sirtuins. *Science*, 2010. 329(5995): p. 1012-3; author reply 1013-4. PMCID: PMC3985480.
134. Rafati, H., Parra, M., Hakre, S., Moshkin, Y., **Verdin, E.**, and Mahmoudi, T., Repressive LTR nucleosome positioning by the BAF complex is required for HIV latency. *PLoS Biol*, 2011. 9(11): p. e1001206. PMCID: PMC3226458.
135. Peng, C., Lu, Z., Xie, Z., Cheng, Z., Chen, Y., Tan, M., Luo, H., Zhang, Y., He, W., Yang, K., Zwaans, B.M., Tishkoff, D., Ho, L., Lombard, D., He, T.C., Dai, J., **Verdin, E.**, Ye, Y., and Zhao, Y., The first identification of lysine malonylation substrates and its regulatory enzyme. *Mol Cell Proteomics*, 2011. 10(12): p. M111 012658. PMCID: PMC3237090.
136. Kasler, H.G., Young, B.D., Mottet, D., Lim, H.W., Collins, A.M., Olson, E.N., and **Verdin, E.**, Histone deacetylase 7 regulates cell survival and TCR signaling in CD4/CD8 double-positive thymocytes. *J Immunol*, 2011. 186(8): p. 4782-93. PMID: 21398603.
137. Jing, E., Emanuelli, B., Hirschey, M.D., Boucher, J., Lee, K.Y., Lombard, D., **Verdin, E.**, and Kahn, C.R., Sirtuin-3 (Sirt3) regulates skeletal muscle metabolism and insulin signaling via altered mitochondrial oxidation and reactive oxygen species production. *Proc Natl Acad Sci U S A*, 2011. 108(35): p. 14608-13. PMCID: PMC3167496.
138. Hirschey, M.D., Shimazu, T., Jing, E., Grueter, C.A., Collins, A.M., Aouizerat, B., Stancakova, A., Goetzman, E., Lam, M.M., Schwer, B., Stevens, R.D., Muehlbauer, M.J., Kakar, S., Bass, N.M., Kuusisto, J., Laakso, M., Alt, F.W., Newgard, C.B., Farese, R.V., Jr., Kahn, C.R., and **Verdin, E.**, SIRT3 deficiency and mitochondrial protein hyperacetylation accelerate the development of the metabolic syndrome. *Mol Cell*, 2011. 44(2): p. 177-90. PMCID: PMC3563434.
139. Hirschey, M.D., Shimazu, T., Huang, J.Y., Schwer, B., and **Verdin, E.**, SIRT3 regulates mitochondrial protein acetylation and intermediary metabolism. *Cold Spring Harb Symp Quant Biol*, 2011. 76: p. 267-77. PMID: 22114326.
140. Hirschey, M.D., Shimazu, T., Capra, J.A., Pollard, K.S., and **Verdin, E.**, SIRT1 and SIRT3 deacetylate homologous substrates: AceCS1,2 and HMGCS1,2. *Aging* (Albany NY), 2011. 3(6): p. 635-42. PMCID: PMC3164371.

141. Hakre, S., Chavez, L., Shirakawa, K., and **Verdin, E.**, Epigenetic regulation of HIV latency. *Curr Opin HIV AIDS*, 2011. 6(1): p. 19-24. PMID: 21242889.
142. Chavez, L., Kauder, S., and **Verdin, E.**, In vivo, in vitro, and in silico analysis of methylation of the HIV-1 provirus. *Methods*, 2011. 53(1): p. 47-53. PMCID: PMC3566233.
143. Alhazzazi, T.Y., Kamarajan, P., **Verdin, E.**, and Kapila, Y.L., SIRT3 and cancer: tumor promoter or suppressor? *Biochim Biophys Acta*, 2011. 1816(1): p. 80-8. PMCID: PMC3129516.
144. Alhazzazi, T.Y., Kamarajan, P., Joo, N., Huang, J.Y., **Verdin, E.**, D'Silva, N.J., and Kapila, Y.L., Sirtuin-3 (SIRT3), a novel potential therapeutic target for oral cancer. *Cancer*, 2011. 117(8): p. 1670-8. PMCID: PMC3117020.
145. Weir, H.J., Murray, T.K., Kehoe, P.G., Love, S., **Verdin, E.**, O'Neill, M.J., Lane, J.D., and Balthasar, N., CNS SIRT3 expression is altered by reactive oxygen species and in Alzheimer's disease. *PLoS One*, 2012. 7(11): p. e48225. PMCID: PMC3491018.
146. Streeper, R.S., Grueter, C.A., Salomonis, N., Cases, S., Levin, M.C., Koliwad, S.K., Zhou, P., Hirschey, M.D., **Verdin, E.**, and Farese, R.V., Jr., Deficiency of the lipid synthesis enzyme, DGAT1, extends longevity in mice. *Aging (Albany NY)*, 2012. 4(1): p. 13-27. PMCID: PMC3292902.
147. Sinclair, D. and **Verdin, E.**, The longevity of sirtuins. *Cell Rep*, 2012. 2(6): p. 1473-4. PMID: 23273894.
148. Schroder, S., Cho, S., Zeng, L., Zhang, Q., Kaehlcke, K., Mak, L., Lau, J., Bisgrove, D., Schnolzer, M., **Verdin, E.**, Zhou, M.M., and Ott, M., Two-pronged binding with bromodomain-containing protein 4 liberates positive transcription elongation factor b from inactive ribonucleoprotein complexes. *J Biol Chem*, 2012. 287(2): p. 1090-9. PMCID: PMC3256921.
149. Schilling, B., Rardin, M.J., MacLean, B.X., Zawadzka, A.M., Frewen, B.E., Cusack, M.P., Sorensen, D.J., Bereman, M.S., Jing, E., Wu, C.C., **Verdin, E.**, Kahn, C.R., Maccoss, M.J., and Gibson, B.W., Platform-independent and label-free quantitation of proteomic data using MS1 extracted ion chromatograms in skyline: application to protein acetylation and phosphorylation. *Mol Cell Proteomics*, 2012. 11(5): p. 202-14. PMCID: PMC3418851.
150. Peixoto, P., Castronovo, V., Matheus, N., Polese, C., Peulen, O., Gonzalez, A., Boxus, M., **Verdin, E.**, Thiry, M., Dequiedt, F., and Mottet, D., HDAC5 is required for maintenance of pericentric heterochromatin, and controls cell-cycle progression and survival of human cancer cells. *Cell Death Differ*, 2012. 19(7): p. 1239-52. PMCID: PMC3374087.
151. Pan, Y., Nishida, Y., Wang, M., and **Verdin, E.**, Metabolic regulation, mitochondria and the life-prolonging effect of rapamycin: a mini-review. *Gerontology*, 2012. 58(6): p. 524-30. PMID: 22947849.
152. Newman, J.C., He, W., and **Verdin, E.**, Mitochondrial protein acylation and intermediary metabolism: regulation by sirtuins and implications for metabolic disease. *J Biol Chem*, 2012. 287(51): p. 42436-43. PMCID: PMC3522244.
153. Maurer, B., Rumpf, T., Scharfe, M., Stolfa, D.A., Schmitt, M.L., He, W., **Verdin, E.**, Sippl, W., and Jung, M., Inhibitors of the NAD(+)-Dependent Protein Desuccinylase and Demalonylase Sirt5. *ACS Med Chem Lett*, 2012. 3(12): p. 1050-3. PMCID: PMC4025838.
154. Kwon, H.S., Lim, H.W., Wu, J., Schnolzer, M., **Verdin, E.**, and Ott, M., Three novel acetylation sites in the Foxp3 transcription factor regulate the suppressive activity of regulatory T cells. *J Immunol*, 2012. 188(6): p. 2712-21. PMCID: PMC3478122.
155. Bonezzi, K., Belotti, D., North, B.J., Ghilardi, C., Borsotti, P., Resovi, A., Ubezio, P., Riva, A., Giavazzi, R., **Verdin, E.**, and Taraboletti, G., Inhibition of SIRT2 potentiates the anti-motility

- activity of taxanes: implications for antineoplastic combination therapies. *Neoplasia*, 2012. 14(9): p. 846-54. PMID: PMC3459280.
156. Deeks, S.G., **Verdin, E.**, and McCune, J.M., Immunosenescence and HIV. *Curr Opin Immunol*, 2012. 24(4): p. 501-6. PMID: 22658763.
 157. Fritz, K.S., Galligan, J.J., Hirschey, M.D., **Verdin, E.**, and Petersen, D.R., Mitochondrial acetylome analysis in a mouse model of alcohol-induced liver injury utilizing SIRT3 knockout mice. *J Proteome Res*, 2012. 11(3): p. 1633-43. PMID: PMC3324946.
 158. Gallastegui, E., Marshall, B., Vidal, D., Sanchez-Duffhues, G., Collado, J.A., Alvarez-Fernandez, C., Luque, N., Terme, J.M., Gatell, J.M., Sanchez-Palomino, S., Munoz, E., Mestres, J., **Verdin, E.**, and Jordan, A., Combination of biological screening in a cellular model of viral latency and virtual screening identifies novel compounds that reactivate HIV-1. *J Virol*, 2012. 86(7): p. 3795-808. PMID: PMC3302487.
 159. Hakre, S., Chavez, L., Shirakawa, K., and **Verdin, E.**, HIV latency: experimental systems and molecular models. *FEMS Microbiol Rev*, 2012. 36(3): p. 706-16. PMID: PMC3563430.
 160. He, W., Newman, J.C., Wang, M.Z., Ho, L., and **Verdin, E.**, Mitochondrial sirtuins: regulators of protein acylation and metabolism. *Trends Endocrinol Metab*, 2012. 23(9): p. 467-76. PMID: 22902903.
 161. International, A.S.S.W.G.o.H.I.V.C., Deeks, S.G., Autran, B., Berkhout, B., Benkirane, M., Cairns, S., Chomont, N., Chun, T.W., Churchill, M., Di Mascio, M., Katlama, C., Lafeuillade, A., Landay, A., Lederman, M., Lewin, S.R., Maldarelli, F., Margolis, D., Markowitz, M., Martinez-Picado, J., Mullins, J.I., Mellors, J., Moreno, S., O'Doherty, U., Palmer, S., Penicaud, M.C., Peterlin, M., Poli, G., Routy, J.P., Rouzioux, C., Silvestri, G., Stevenson, M., Telenti, A., Van Lint, C., **Verdin, E.**, Woolfrey, A., Zaia, J., and Barre-Sinoussi, F., Towards an HIV cure: a global scientific strategy. *Nat Rev Immunol*, 2012. 12(8): p. 607-14. PMID: PMC3595991.
 162. Ismail, H., Mofarrah, M., Echavarría, R., Harel, S., **Verdin, E.**, Lim, H.W., Jin, Z.G., Sun, J., Zeng, H., and Hussain, S.N., Angiopoietin-1 and vascular endothelial growth factor regulation of leukocyte adhesion to endothelial cells: role of nuclear receptor-77. *Arterioscler Thromb Vasc Biol*, 2012. 32(7): p. 1707-16. PMID: PMC4183139.
 163. Jang, Y.C., Liu, Y., Hayworth, C.R., Bhattacharya, A., Lustgarten, M.S., Muller, F.L., Chaudhuri, A., Qi, W., Li, Y., Huang, J.Y., **Verdin, E.**, Richardson, A., and Van Remmen, H., Dietary restriction attenuates age-associated muscle atrophy by lowering oxidative stress in mice even in complete absence of CuZnSOD. *Aging Cell*, 2012. 11(5): p. 770-82. PMID: PMC3444532.
 164. Kamarajan, P., Alhazzazi, T.Y., Danciu, T., D'Silva N, J., **Verdin, E.**, and Kapila, Y.L., Receptor-interacting protein (RIP) and Sirtuin-3 (SIRT3) are on opposite sides of anoikis and tumorigenesis. *Cancer*, 2012. 118(23): p. 5800-10. PMID: PMC3443499.
 165. Kasler, H.G., Lim, H.W., Mottet, D., Collins, A.M., Lee, I.S., and **Verdin, E.**, Nuclear export of histone deacetylase 7 during thymic selection is required for immune self-tolerance. *EMBO J*, 2012. 31(23): p. 4453-65. PMID: PMC3512390.
 166. Wirth, M., Karaca, S., Wenzel, D., Ho, L., Tishkoff, D., Lombard, D.B., **Verdin, E.**, Urlaub, H., Jedrusik-Bode, M., and Fischle, W., Mitochondrial SIRT4-type proteins in *Caenorhabditis elegans* and mammals interact with pyruvate carboxylase and other acetylated biotin-dependent carboxylases. *Mitochondrion*, 2013. 13(6): p. 705-20. PMID: PMC3744624.
 167. **Verdin, E.** and Ott, M., Acetylphosphate: a novel link between lysine acetylation and intermediary metabolism in bacteria. *Mol Cell*, 2013. 51(2): p. 132-4. PMID: 23870140.
 168. Spina, C.A., Anderson, J., Archin, N.M., Bosque, A., Chan, J., Famiglietti, M., Greene, W.C., Kashuba, A., Lewin, S.R., Margolis, D.M., Mau, M., Ruelas, D., Saleh, S., Shirakawa, K.,

- Siliciano, R.F., Singhania, A., Soto, P.C., Terry, V.H., **Verdin, E.**, Woelk, C., Wooden, S., Xing, S., and Planelles, V., An in-depth comparison of latent HIV-1 reactivation in multiple cell model systems and resting CD4+ T cells from aviremic patients. *PLoS Pathog*, 2013. 9(12): p. e1003834. PMID: PMC3873446.
169. Shirakawa, K., Chavez, L., Hakre, S., Calvanese, V., and **Verdin, E.**, Reactivation of latent HIV by histone deacetylase inhibitors. *Trends Microbiol*, 2013. 21(6): p. 277-85. PMID: PMC3685471.
170. Shimazu, T., Hirschey, M.D., Newman, J., He, W., Shirakawa, K., Le Moan, N., Grueter, C.A., Lim, H., Saunders, L.R., Stevens, R.D., Newgard, C.B., Farese, R.V., Jr., de Cabo, R., Ulrich, S., Akassoglou, K., and **Verdin, E.**, Suppression of oxidative stress by beta-hydroxybutyrate, an endogenous histone deacetylase inhibitor. *Science*, 2013. 339(6116): p. 211-4. PMID: PMC3735349.
171. Rardin, M.J., Newman, J.C., Held, J.M., Cusack, M.P., Sorensen, D.J., Li, B., Schilling, B., Mooney, S.D., Kahn, C.R., **Verdin, E.**, and Gibson, B.W., Label-free quantitative proteomics of the lysine acetylome in mitochondria identifies substrates of SIRT3 in metabolic pathways. *Proc Natl Acad Sci U S A*, 2013. 110(16): p. 6601-6. PMID: PMC3631688.
172. Rardin, M.J., He, W., Nishida, Y., Newman, J.C., Carrico, C., Danielson, S.R., Guo, A., Gut, P., Sahu, A.K., Li, B., Uppala, R., Fitch, M., Riiff, T., Zhu, L., Zhou, J., Mulhern, D., Stevens, R.D., Ilkayeva, O.R., Newgard, C.B., Jacobson, M.P., Hellerstein, M., Goetzman, E.S., Gibson, B.W., and **Verdin, E.**, SIRT5 regulates the mitochondrial lysine succinylome and metabolic networks. *Cell Metab*, 2013. 18(6): p. 920-33. PMID: PMC4105152.
173. Ott, M. and **Verdin, E.**, Three rules for HIV latency: location, location, and location. *Cell Host Microbe*, 2013. 13(6): p. 625-6. PMID: PMC3998752.
174. Novis, C.L., Archin, N.M., Buzon, M.J., **Verdin, E.**, Round, J.L., Lichterfeld, M., Margolis, D.M., Planelles, V., and Bosque, A., Reactivation of latent HIV-1 in central memory CD4(+) T cells through TLR-1/2 stimulation. *Retrovirology*, 2013. 10: p. 119. PMID: PMC3826617.
175. Merksamer, P.I., Liu, Y., He, W., Hirschey, M.D., Chen, D., and **Verdin, E.**, The sirtuins, oxidative stress and aging: an emerging link. *Aging (Albany NY)*, 2013. 5(3): p. 144-50. PMID: PMC3629286.
176. Kang, S.G., Liu, W.H., Lu, P., Jin, H.Y., Lim, H.W., Shepherd, J., Fremgen, D., **Verdin, E.**, Oldstone, M.B., Qi, H., Teijaro, J.R., and Xiao, C., MicroRNAs of the miR-17 approximately 92 family are critical regulators of T(FH) differentiation. *Nature Immunol*, 2013. 14(8): p. 849-57. PMID: PMC3740954.
177. Jing, E., O'Neill, B.T., Rardin, M.J., Kleinriders, A., Ilkeyeva, O.R., Ussar, S., Bain, J.R., Lee, K.Y., **Verdin, E.**, Newgard, C.B., Gibson, B.W., and Kahn, C.R., Sirt3 regulates metabolic flexibility of skeletal muscle through reversible enzymatic deacetylation. *Diabetes*, 2013. 62(10): p. 3404-17. PMID: PMC3781465.
178. Ho, L., Titus, A.S., Banerjee, K.K., George, S., Lin, W., Deota, S., Saha, A.K., Nakamura, K., Gut, P., **Verdin, E.**, and Kolthur-Seetharam, U., SIRT4 regulates ATP homeostasis and mediates a retrograde signaling via AMPK. *Aging (Albany NY)*, 2013. 5(11): p. 835-49. PMID: PMC3868726.
179. Gut, P. and **Verdin, E.**, Rejuvenating SIRT1 activators. *Cell Metab*, 2013. 17(5): p. 635-7. PMID: 23663735.
180. Gut, P. and **Verdin, E.**, The nexus of chromatin regulation and intermediary metabolism. *Nature*, 2013. 502(7472): p. 489-98. PMID: 24153302.

181. Gut, P., Baeza-Raja, B., Andersson, O., Hasenkamp, L., Hsiao, J., Hesselson, D., Akassoglou, K., **Verdin, E.**, Hirschey, M.D., and Stainier, D.Y., Whole-organism screening for gluconeogenesis identifies activators of fasting metabolism. *Nature Chem Biol*, 2013. 9(2): p. 97-104. PMID: PMC3552031.
182. Calvanese, V., Chavez, L., Laurent, T., Ding, S., and **Verdin, E.**, Dual-color HIV reporters trace a population of latently infected cells and enable their purification. *Virology*, 2013. 446(1-2): p. 283-92. PMID: PMC4019006.
183. Boehm, D., Calvanese, V., Dar, R.D., Xing, S., Schroeder, S., Martins, L., Aull, K., Li, P.C., Planelles, V., Bradner, J.E., Zhou, M.M., Siliciano, R.F., Weinberger, L., **Verdin, E.**, and Ott, M., BET bromodomain-targeting compounds reactivate HIV from latency via a Tat-independent mechanism. *Cell Cycle*, 2013. 12(3): p. 452-62. PMID: PMC3587446.
184. Bharathi, S.S., Zhang, Y., Mohsen, A.W., Uppala, R., Balasubramani, M., Schreiber, E., Uechi, G., Beck, M.E., Rardin, M.J., Vockley, J., **Verdin, E.**, Gibson, B.W., Hirschey, M.D., and Goetzman, E.S., Sirtuin 3 (SIRT3) protein regulates long-chain acyl-CoA dehydrogenase by deacetylating conserved lysines near the active site. *J Biol Chem*, 2013. 288(47): p. 33837-47. PMID: PMC3837126.
185. Alhazzazi, T.Y., Kamarajan, P., **Verdin, E.**, and Kapila, Y.L., Sirtuin-3 (SIRT3) and the Hallmarks of Cancer. *Genes Cancer*, 2013. 4(3-4): p. 164-71. PMID: PMC3764471.
186. **Verdin, E.**, The many faces of sirtuins: Coupling of NAD metabolism, sirtuins and lifespan. *Nature Medicine*, 2014. 20(1): p. 25-7. PMID: 24398962.
187. Newman, J.C. and **Verdin, E.**, Ketone bodies as signaling metabolites. *Trends Endocrinol Metab*, 2014. 25(1): p. 42-52. PMID: PMC4176946.
188. Newman, J.C. and **Verdin, E.**, beta-hydroxybutyrate: much more than a metabolite. *Diabetes Res Clin Pract*, 2014. 106(2): p. 173-81. PMID: PMC4414487.
189. Manson McManamy, M.E., Hakre, S., **Verdin, E.**, and Margolis, D.M., Therapy for latent HIV-1 infection: the role of histone deacetylase inhibitors. *Antivir Chem Chemother*, 2014. 23(4): p. 145-9. PMID: PMC3947511.
190. Colin, L., **Verdin, E.**, and Van Lint, C., HIV-1 chromatin, transcription, and the regulatory protein Tat. *Methods Mol Biol*, 2014. 1087: p. 85-101. PMID: 24058816.
191. Choudhary, C., Weinert, B.T., Nishida, Y., **Verdin, E.**, and Mann, M., The growing landscape of lysine acetylation links metabolism and cell signalling. *Nature Rev Mol Cell Biol*, 2014. 15(8): p. 536-50. PMID: 250533539.
192. Brown, K.D., Maqsood, S., Huang, J.Y., Pan, Y., Harkcom, W., Li, W., Sauve, A., **Verdin, E.**, and Jaffrey, S.R., Activation of SIRT3 by the NAD(+) precursor nicotinamide riboside protects from noise-induced hearing loss. *Cell Metab*, 2014. 20(6): p. 1059-68. PMID: PMC4940130.
193. Chavez, L., Calvanese, V., and **Verdin, E.**, HIV Latency Is Established Directly and Early in Both Resting and Activated Primary CD4 T Cells. *PLoS Pathog*, 2015. 11(6): p. e1004955. PMID: PMC4466167.
194. Dahabieh, M.S., Battivelli, E., and **Verdin, E.**, Understanding HIV latency: the road to an HIV cure. *Annu Rev Med*, 2015. 66: p. 407-21. PMID: PMC4381961.
195. Lim, H.W., Kang, S.G., Ryu, J.K., Schilling, B., Fei, M., Lee, I.S., Kehasse, A., Shirakawa, K., Yokoyama, M., Schnolzer, M., Kasler, H.G., Kwon, H.S., Gibson, B.W., Sato, H., Akassoglou, K., Xiao, C., Littman, D.R., Ott, M., and **Verdin, E.**, SIRT1 deacetylates RORgammat and enhances Th17 cell generation. *J Exp Med*, 2015. 212(6): p. 973. PMID: PMC4451124.
196. Lim, H.W., Kang, S.G., Ryu, J.K., Schilling, B., Fei, M., Lee, I.S., Kehasse, A., Shirakawa, K., Yokoyama, M., Schnolzer, M., Kasler, H.G., Kwon, H.S., Gibson, B.W., Sato, H., Akassoglou,

- K., Xiao, C., Littman, D.R., Ott, M., and **Verdin, E.**, SIRT1 deacetylates ROR γ and enhances Th17 cell generation. *J Exp Med*, 2015. 212(5): p. 607-17. PMID: PMC4419343.
197. Nishida, Y., Rardin, M.J., Carrico, C., He, W., Sahu, A.K., Gut, P., Najjar, R., Fitch, M., Hellerstein, M., Gibson, B.W., and **Verdin, E.**, SIRT5 Regulates both Cytosolic and Mitochondrial Protein Malonylation with Glycolysis as a Major Target. *Molecular Cell*, 2015. PMID: PMC4571487.
198. Ruelas, D.S., Chan, J.K., Oh, E., Heidersbach, A.J., Hebbeler, A.M., Chavez, L., **Verdin, E.**, Rape, M., and Greene, W.C., MicroRNA-155 Reinforces HIV Latency. *J Biol Chem*, 2015. 290(22): p. 13736-48. PMID: PMC4447952.
199. **Verdin, E.** and Ott, M., 50 years of protein acetylation: from gene regulation to epigenetics, metabolism and beyond. *Nature Rev Mol Cell Biol*, 2015. 16(4): p. 258-64. PMID: 25549891.
200. Zhang, Y., Bharathi, S.S., Rardin, M.J., Uppala, R., **Verdin, E.**, Gibson, B.W., and Goetzman, E.S., SIRT3 and SIRT5 regulate the enzyme activity and cardiopilin binding of very long-chain acyl-CoA dehydrogenase. *PLoS One*, 2015. 10(3): p. e0122297. PMID: PMC4374878.
201. Min SW, Chen X, Tracy TE, Li Y, Zhou Y, Wang C, Shirakawa K, Minami SS, Defensor E, Mok SA, Sohn PD, Schilling B, Cong X, Ellerby L, Gibson BW, Johnson J, Krogan N, Shamloo M, Gestwicki J, Masliah E, **Verdin E**, Gan L. Critical role of acetylation in tau-mediated neurodegeneration and cognitive deficits. *Nature Medicine*, 2015. 21(10):1154-62. PMID: PMC4598295.
202. Sundaresan NR, Bindu S, Pillai VB, Samant S, Pan Y, Huang JY, Gupta M, Nagalingam RS, Wolfgeher D, **Verdin E**, Gupta MP. SIRT3 blocks aging-associated tissue fibrosis in mice by deacetylating and activating Glycogen Synthase Kinase 3 β . *Mol Cell Biol*, 2015. 36(5): p. 678-92. PMID: PMC4760222.
203. **Verdin E.** NAD⁺ in aging, metabolism, and neurodegeneration. *Science*, 2015. 350(6265): p. 1208-13. PMID: PMC5417072.
204. Alhazzazi TY, Kamarajan P, Xu Y, Ai T, Chen L, **Verdin E**, Kapila YL. A novel Sirtuin-3 inhibitor, LC-0296, inhibits cell survival and proliferation, and promotes apoptosis of head and neck cancer cells. *Anticancer*, 2016. 36(1): p. 49-60. PMID: PMC5417072.
205. Wiley CD, Velarde MC, Lecot P, Liu S, Sarnoski EA, Freund A, Shirakawa K, Lim HW, Davis SS, Ramanathan A, Gerencser AA, **Verdin E**, Campisi J. Mitochondrial dysfunction induces senescence with a distinct secretory phenotype. *Cell Metab*, 2016. 23(2): p. 303-14. PMID: PMC4749409.
206. Shirakawa K, Wang L, Man N, Maksimoska J, Sorum AW, Lim HW, Lee IS, Shimazu T, Newman JC, Schroder S, Ott M, Marmorstein R, Meier J, Nimer S, **Verdin E.** Salicylate, diflunisal and their metabolites inhibit CBP/p300 and exhibit anticancer activity. *Elife*, 2016. 5. PMID: PMC4931907.
207. Vranckx LS, Demeulemeester J, Saleh S, Boll A, Vansant G, Schrijvers R, Weydert C, Battivelli E, **Verdin E**, Cereseto A, Christ F, Gijsbers R, Debyser Z. LEDGIN-mediated inhibition of integrase-LEDGF/p75 interaction reduces reactivation of residual latent HIV. *EBioMedicine*, 2016. 8: p. 248-64. PMID: PMC4919729.
208. Fu Y, Kinter M, Hudson J, Humphries KM, Lane RS, White JR, Hakim M, Pan Y, **Verdin E**, Griffin TM. Aging promotes Sirtuin 3-dependent cartilage superoxide dismutase 2 acetylation and osteoarthritis. *Arthritis Rheumatol*, 2016. 66(8): p. 1887-98. PMID: PMC5331855.
209. Besnard E, Hakre S, Kampmann M, Lim HW, Hosmane NN, Martin A, Bassik MC, Verschueren E, Battivelli E, Chan J, Svensson JP, Gramatica A, Conrad RJ, Ott M, Greene WC, Krogan NJ,

- Siliciano RF, Weissman JS, **Verdin E**. The mTOR Complex controls HIV latency. *Cell Host Microbe*, 2016. 20(6): p. 785-97. PMID: PMC5354304.
210. Bindu S, Pillai VB, Kanwal A, Samant S, Mutlu GM, **Verdin E**, Dulin N, Gupta MP. SIRT3 blocks myofibroblast differentiation and pulmonary fibrosis by preventing mitochondrial DNA damage. *Am J Physiol Lung Cell Mol Physiol*, 2017. 312(1): L68-L78. PMID: PMC5283928.
211. Tomiyama AJ, Milush JM, Lin J, Flynn JM, Kapahi P, **Verdin E**, Sinclair E, Melov S, Epel ES. Long-term calorie restriction in humans is not associated with indices of delayed immunologic aging: a descriptive study. *Nutr Healthy Aging*, 2017. 4(2):147-156. PMID: 28447069.
212. Myers DR, Lau T, Markegard E, Lim HW, Kasler H, Zhu M, Barczak A, Huizar JP, Zikherman J, erle DJ, Zhang W, **Verdin E**, Roose JP. Tonic LAT-HDAC7 signals sustain Nur77 and Irf4 expression to tune naïve CD4 T cells. *Cell Rep*, 2017. 19(8):1558-1571. PMID: 28538176.
213. Fernandez-Del-Rio L, Nag A, Gutierrez Casado E, Ariza J, Awad AM, Joseph AI, Kwon O, **Verdin E**, de Cabo R, Schneider C, Torres JZ, Buron MI, Clarke CF, Villalba JM. Kaempferol increases levels of coenzyme Q in kidney cells and serves as a biosynthetic ring precursor. *Free Radic Biol Med*, 2017. 110:176-187. PMID: 28603085.
214. Newman JC, **Verdin E**. B-hydroxybutyrate: A signaling metabolite. *Annu Rev Nutr*, 2017. 37:51-76. PMID: 28826372.
215. Tognini P, Murakami M, Liu Y, Eckel-Mahan KL, Newman JC, **Verdin E**, Baldi P, Sassone-Corsi P. Distinct circadian signatures in liver and gut clocks revealed by ketogenic diet. *Cell Metab*, 2017. 26(3):523-538. PMID: 28877456.
216. Newman JC, Covarrubias AJ, Zhao M, Yu X, Gut P, Ng CP, Huang Y, Haldar S, **Verdin E**. Ketogenic diet reduces midlife mortality and improves memory in aging mice. *Cell Metab*, 2017. 26(3):547-557. PMID: 28877458.
217. Ramachandran D, Clara R, Fedele S, Hu J, Lackzo E, Huang JY, **Verdin E**, Langhans W, Mansouri A. Intestinal SIRT3 overexpression in mice improves whole body glucose homeostasis independent of body weight. *Mol Metab*, 2017. 6(10): 1264-1273. PMID: PMC5641632.
218. Jeng MY, Hull PA, Fei M, Kwon HS, Tsou CL, Kasler H, Ng CP, Gordon DE, Johnson J, Krogan N, **Verdin E**, Ott M. Metabolic reprogramming of human CD8+ memory T cells through loss of SIRT1. *J Exp Med*, 2017. PMID: 29191913
219. Carrico C, Meyer JG, He W, Gibson BW, **Verdin E**. The Mitochondrial Acylome Emerges: Proteomics, Regulation by Sirtuins, Metabolic and Disease Implications. *Cell Metab*, 2018. 27(3):497-512. PMID: 29514063
220. Porter LC, Franczyk MP, Pietka T, Lin JB, Sasaki Y, **Verdin E**, Apte RS, Yoshino J. NAD+ dependent deacetylase SIRT3 in adipocytes is dispensable for maintaining normal adipose tissue mitochondrial function and whole-body metabolism. *Am J Physiol Endocrinol Metab*, 2018. PMID: 29634313
221. Kasler HG, Lee IS, Lim HW, **Verdin E**. Histone deacetylase 7 mediates tissue-specific autoimmunity via control of innate effector function in invariant natural killer T cells. *Elife*, 2018. PMID: 29664401
222. Battivelli E, Dahabieh MS, Abdel-Mohsen M, Svensson JP, Tojal Da Silva I, Cohn LB, Gramatica A, Deeks S, Greene WC, Pillai SK, **Verdin E**. Distinct chromatin functional states correlate with HIV latency reactivation in infected primary CD4+ T cells. *Elife*, 2018. PMID: 29714165