

EPIGENETIC CHANGES

EPIGENETIC MECHANISMS

are affected by these factors and processes:

- Development (in utero, childhood)
- Environmental chemicals
- Drugs/Pharmaceuticals
- Aging
- Diet

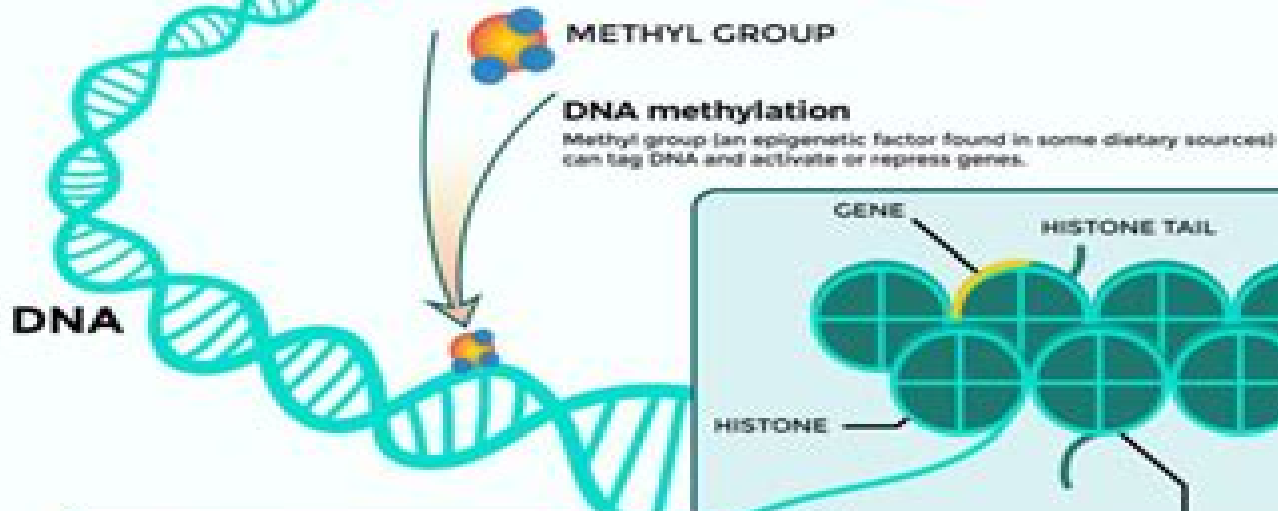
HEALTH ENDPOINTS

- Cancer
- Autoimmune disease
- Mental disorders
- Diabetes



CHROMOSOME

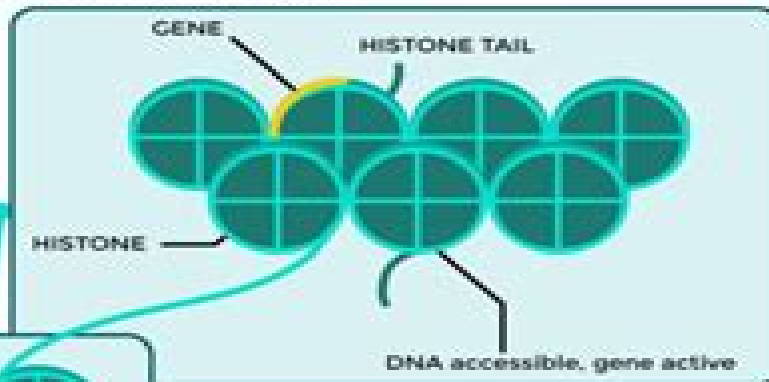
CHROMATIN



METHYL GROUP

DNA methylation

Methyl group (an epigenetic factor found in some dietary sources) can tag DNA and activate or repress genes.

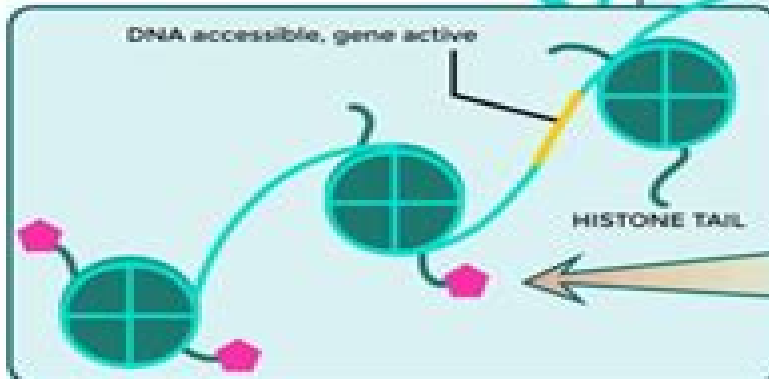


GENE

HISTONE TAIL

HISTONE

DNA accessible, gene active



Histone modification

The binding of epigenetic factors to histone "tails" alters the extent to which DNA is wrapped around histones and the availability of genes in the DNA to be activated.

HISTONE TAIL

EPIGENETIC FACTOR

Changes In Dna Unit Lesson 02

Roman Wölfel



Changes In Dna Unit Lesson 02:

Be the Change Linda Darling-Hammond, Nicole Ramos-Beban, Rebecca Padnos Altamirano, Maria E. Hyler, 2016-01-03 *Be the Change* tells the remarkable story of an innovative public high school launched by dedicated teachers in East Palo Alto California one of a growing number of low income communities starved of the resources needed to serve its students and schools Chronicling a rags to riches story of how two very different communities came together to change the historical trajectory of educational failure that had robbed so many students of their futures *Be the Change* demonstrates how to plant the seeds of new possibilities in its place The school s unique design modeled after successful small schools in New York City offers authentic and engaging instruction in a personalized setting that has allowed students who start off far behind to graduate and go on to college in record numbers Each chapter examines one of the critical elements the teachers found essential to enable student success the creation of an academic culture the development of high standards with high supports and the process of learning to teach so that students can learn A powerful and compelling tale about how educators parents and representatives of one of America s most powerful universities came together to create a school that is now a beacon of pride and hope Their struggle to overcome the obstacles they encountered along the way will inspire others who seek to find ways to use education as a means to break the cycle of poverty and to expand opportunity and justice Pedro A Noguera distinguished professor of education Graduate School of Education and Information Sciences UCLA This is the story of a little school that could Could get students to college and beyond that is It s filled with evidence quotes and anecdotes but more importantly it demonstrates that will and skill aligned with vision and values results in learning environments in which students thrive While acknowledging the challenges trials and tribulations of creating and leading an urban high school the authors share their success in a passionate and compelling way inviting others to learn alongside them as they build successful futures for their students Douglas Fisher professor of educational leadership San Diego State University With demanding academics loving support and genuine affirmation the staff parents community members and other supporters of EPAA as well as Stanford faculty and staff present an encouraging picture of the kind of high school all young people deserve This kind of success is not easy but in describing how it can be done Linda Darling Hammond and her co authors have provided a stirring example for all of those interested in equity and hope for our public schools Sonia Nieto professor emerita Language Literacy and Culture College of Education University of Massachusetts Amherst **Modules** McDougal Littell Incorporated, 2005 [Resources for Teaching Middle School Science](#) Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and

selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

Discover Science: Teacher's annotated edition ,1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society
Resources in Education ,1997-04 *NJN Instructional Resource Manual, K-12* ,1990 **Cumulated Index Medicus** ,1998 *Harcourt Science: Teacher's ed., life science units A and B* ,2005 NJN ... Secondary Teacher Manual, Grades 7-12 ,1988 Directory of Distance Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment

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Activities with Real-Life Applications Pam Walker,Elaine Wood,1994-11-02 Topics include plate tectonics rock weathering
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 More,W. Fred Wegener,1992 *Délibérations Du Comité Spécial Du Sénat Sur la Politique Scientifique* Canada. Parliament.
 Senate. Special Committee on Science Policy,1968 Introduction to industrial hygiene engineering and control (552)
 National Institute for Occupational Safety and Health. Division of Training & Manpower Development,1978 *Evolution*
 ,1994

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