

# HENRY STEWART TALKS

## Manual for all users

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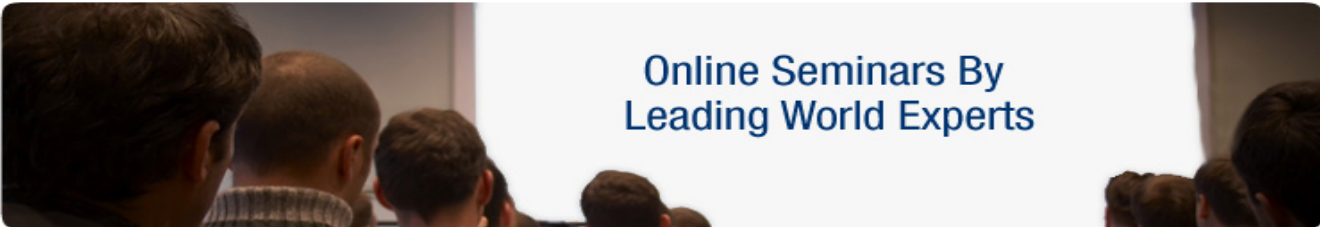
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### 3. 로그인 후 첫 화면

The screenshot shows the Henry Stewart Talks website interface. At the top, there is a blue header with the text "HENRY STEWART TALKS" and "Online Seminars By Leading World Experts". A quote from Dr. Joseph Chamunorwa is displayed. Below the header, there are navigation options like "BROWSE SERIES" and "SEARCH FOR TALK/SERIES". The main content area features "The Biomedical & Life Sciences Collection" with a welcome message and a description of the collection. On the right side, there are sections for "RECENTLY ADDED" and "UPCOMING SERIES". Two yellow callout boxes with red arrows point to specific items: "최근 update된 Series와 Talks" points to the "RECENTLY ADDED" section, and "Update예정인 Series" points to the "UPCOMING SERIES" section.

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### [1. Molecular Epidemiology of Lung Cancer \(40 mins\)](#)

**Series:** [Gene-Environment Interactions - Role in the Modulation of Pulmonary and Autoimmune Disease Risks \(2007\)](#)

Prof. David Christiani - [Harvard](#) School of Public Health and [Harvard](#) Medical School

The influence of host factors on individual susceptibility to tobacco smoke - The pleiotropic genes that control activation (Phase I) and detoxification (Phase II) of potential carcinogens - Effects of the metabolism of environmental compounds on the lipophilic properties of a molecule and the introduction of electronegative moieties within the molecule on carcinogenic potential - Other susceptibility factors related to defects in DNA repair, alterations in tumor suppressor genes and alterations in tumor invasiveness factors - Polymorphisms in genes and the association of this with lung cancer development - The role of inherited polymorphisms of genes involved in xenobiotic metabolism, DNA repair and tumor suppression/invasion (alone and in combination) in lung cancer risk, and modification of this risk by environmental factors such as smoking and diet



### [2. Protein Degradation \(55 mins\)](#)

**Series:** [From DNA to Proteins - The Multiple Levels of Regulation \(2007\)](#)

Prof. Alfred Goldberg - [Harvard](#) Medical School, USA

Protein levels in cells are regulated by their rates of synthesis and degradation - Regulatory proteins are rapidly degraded by the ubiquitin-proteasome pathway - Examples include many oncogenes, transcription factors and cyclins which control progress through the cell cycle - NF-kappa B activation in disease depends on degradation of the inhibitor, I-kappa B - Misfolded or mutant proteins are rapidly degraded - Neurodegenerative and protein folding diseases - Two major proteolytic pathways exist in mammalian cells - Many acid hydrolases exist in lysosomes - Endocytosed proteins and those in autophagic vacuoles are



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[1. Functional Roles of RNAi in C. elegans \(38 mins\)](#)

**Series:** [RNA Interference - Principles and Applications \(2010\)](#)

Dr. Eric Miska - Wellcome Trust/Cancer Research UK, Gurdon Institute and University of Cambridge, UK

Small non-coding RNA pathways - Genetics of RNAi - MicroRNAs - RNAi screening - Biological roles of RNAi - Systemic RNAi in C. elegans



[2. Mechanistic Aspects and Therapeutic Applications of RNAi \(44 mins\)](#)

**Series:** [RNA Interference - Principles and Applications \(2010\)](#)

Prof. John Rossi - Beckman Research Institute of the City of Hope, USA

RNAi mechanisms - RNAi and HIV infection - Lentiviral vector-mediated transduction of stem cells and T-cells - Gene therapy based treatment of HIV-1 - HIV mutants that abrogate RNAi - Multiplexing different siRNAs and siRNAs with other antiviral RNAs to minimize viral resistance - An HIV Tat inducible shRNA expression system - Multiplexing shRNA with dominant negative M10 protein inhibition of HIV



[3. RNA Interference and Cancer: a Revolution? \(30 mins\)](#)

**Series:** [RNA Interference - Principles and Applications \(2010\)](#)

Dr. Annick Harel-Bellan - Institut Andre Lwoff, France

Cancer overview - RNA interference to understand cancer - Natural short RNAs in cancer - RNA interference to fight cancer

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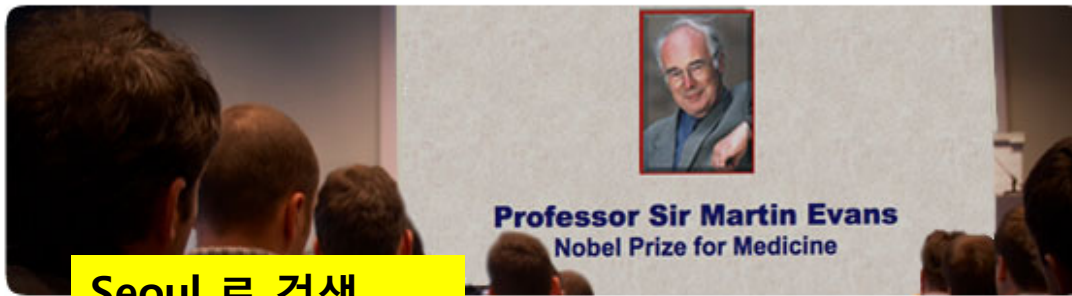
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### 1. [MicroRNA Biogenesis \(31 mins\)](#)

**Series:** [RNA Interference - Principles and Applications \(2010\)](#)

Dr. Narry Kim - School of Biological Sciences and Institute of Molecular Biology and Genetics, **Seoul** National University, Korea

Definition of microRNA - Comparison to small interfering RNA - Mechanism of gene silencing - Factors in the microRNA pathway - RNase III proteins and their interacting proteins - MicroRNA gene structure and transcription - Drosha and primary microRNA processing - Exportin 5 and pre-microRNA export - Dicer and pre-microRNA processing - RISC assembly and strand selection - MicroRNA biogenesis in plants - Experimental tools to investigate microRNA



### 2. [UGT1A1 polymorphisms and irinotecan toxicity in colorectal cancer patients \(31 mins\)](#)

**Series:** [Cancer Therapy - Latest thinking in efficacy and toxicity \(2009\)](#)

Prof. Tae Won Kim - Asan Medical Center, University of Ulsan, Korea

Irinotecan activity and safety - Metabolism of Irinotecan - Structure of UGT1A - Role of UGT1A1\*28 on irinotecan pharmacogenetics - Role of UGT1A1\*6 in Asians - Genotype-based dosing of irinotecan - Other candidates: UGT1A enzyme or transporter



### 3. [Autism and culture: the effect on epidemiology and diagnosis at home and abroad \(51 mins\)](#)

**Series:** [Autism and Autism Spectrum Disorders - History, Diagnosis, Neurobiology, Treatment and Outcome \(2010\)](#)

Prof. Roy Grinker - George Washington University, USA

International awareness - Autism prevalence worldwide - Autism and culture - Learning from schizophrenia studies - Developmental disorders and culture - The Diagnostic and Statistical Manual of Mental Disorders (DSM) - Adoption of DSM and International Classification of Diseases (ICD) - Cross-cultural comparisons - Importance of a meaningful diagnostic term - Social changes - The diagnostic net has widened - Autism spectrum disorders - Pervasive developmental disorders - Adults with autism - Traumatic brain injury and IDEA - Challenges to ASD surveillance - Prevalence and access to services - Disease or disability? - Language and diagnosis - Autism rights - Neurodiversity

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**Series:** [RNA Interference - Principles and Applications \(2010\)](#)

Dr. Narry Kim - School of Biological Sciences and Institute of Molecular Biology and Genetics, **Seoul** National University, Korea

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### 1. MicroRNA Biogenesis (31 mins)

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**Dr. Harry Kim** - School of Biological Sciences and Institute of Molecular Biology and Genetics, Seoul National University, Korea

**Talk Online Publication: Oct 2007**

[TOPICS COVERED IN MICRORNA BIOGENESIS](#)

Definition of microRNA - Comparison to small interfering RNA  
pathway - RNase III proteins and their interacting proteins  
primary microRNA processing - Exportin 5 and pre-microRNA  
assembly and strand selection - MicroRNA biogenesis in pl

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**How to cite this talk:**

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11. Stats of miRNA (as of Nov. 2005)



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Seoul National University

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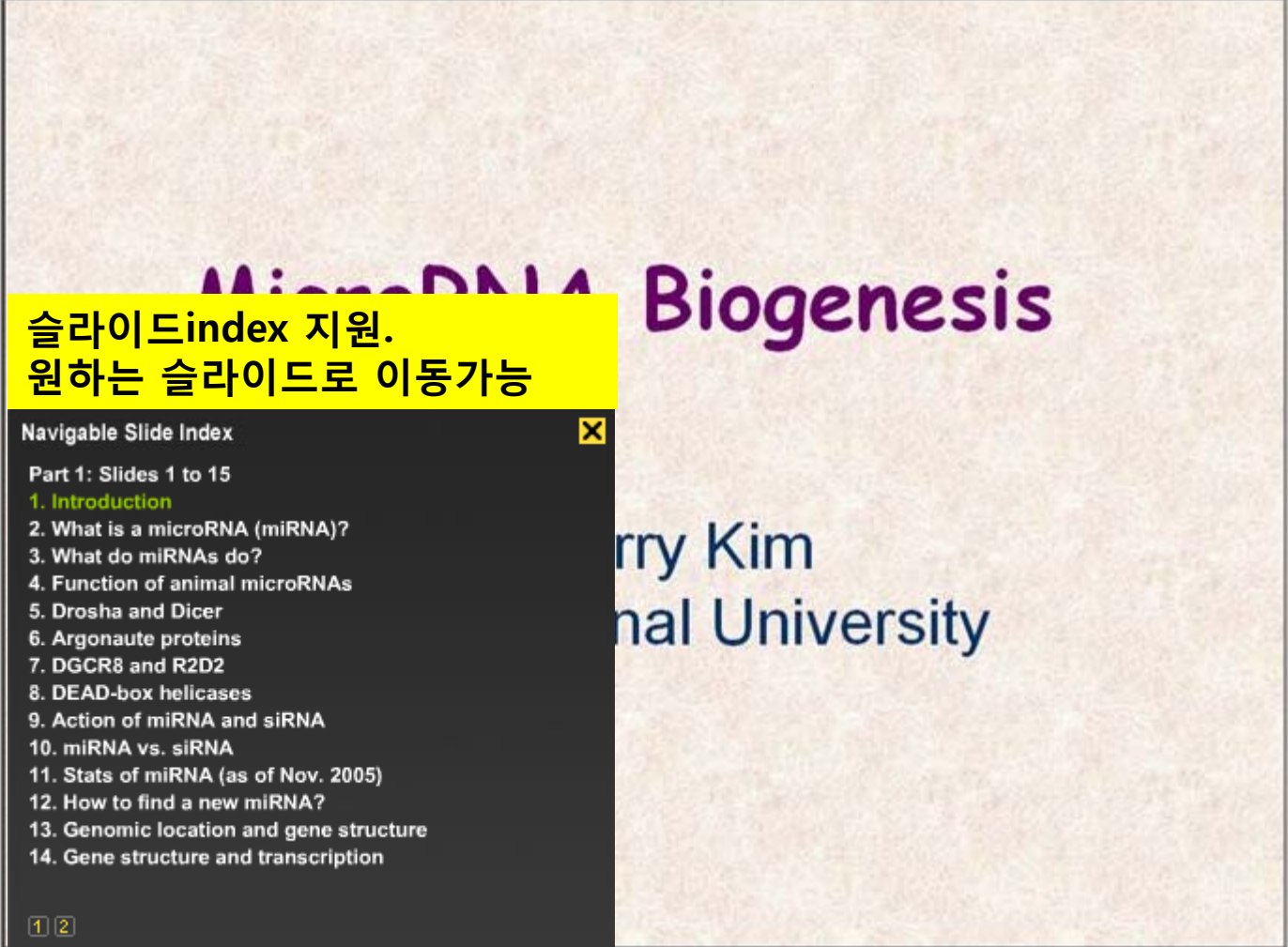
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**MicroRNA Biogenesis**

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### Function of animal microRNAs

miRNA	Function	Known targets	Species
<i>lin-4</i>	Developmental timing	<i>lin-14, lin-28</i>	<i>Ce</i>
<i>let-7</i>	Developmental timing	<i>lin-41, hbl-1</i>	<i>Ce</i>
<i>lsey-6</i>	Neuronal patterning	<i>cog-1</i>	<i>Ce</i>
<i>bantam</i>	Cell death, proliferation	<i>hid</i>	<i>Dm</i>
<i>miR-14</i>	Cell death, fat storage	Caspase?	<i>Dm</i>
<i>miR-181</i>	Haematopoiesis	?	<i>Mm</i>

*Ce*, *Caenorhabditis elegans*; *Dm*, *Drosophila melanogaster*; *Hs*, *Homo sapiens*; *Mm*, *Mus musculus*.

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


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