

CONJOINT 514A WEEKS 1-5
CONJOINT 514B WEEKS 6-10

Molecular Medicine Course Outline – Winter Quarter

This new course was conceived and will be chaired by Dr. Henry Rosen, Associate Chair of the UW Department of Medicine. It will be required of all Molecular Medicine Training Program trainees in Year 1 and will be taught in two 5 week blocks during Winter quarter in order to permit students maximum scheduling and registration flexibility to participate in the first year of Graduate School. Students may register for and take either or both blocks in a given year.

Each topic will be introduced with a patient history to provide a clinical perspective on an important area of clinical investigation and translational research. The interplay of clinical medicine and basic science will be emphasized throughout. Dr. Rosen, the course Chair, will provide an introduction to each section of the course that reviews the cellular basis for the major disease processes that will be the focus for each section, and the epidemiologic importance of each disease area.

Section A (Weeks 1-5): Inflammation, Vascular Disease and Metabolism.

<i>topic</i>	<i>speaker</i>
Section A Introduction	Dr. Rosen
Septic shock	Dr. Rosen
Toll-like receptors	Dr. Wilson
Neutropenia	Dr. Dale
Atherosclerosis	Dr. Heinecke
Vascular restenosis	Dr. Dichek
Anti-inflammatory therapies	Dr. Gilliland
Metabolic syndrome	Dr. Chait
Obesity	Dr. Weigle
Regulation of hunger	Dr. Cummings
CNS regulation of food intake	Dr. Schwartz

Section B (Weeks 6-10): Cancer Biology and Therapy, Molecular, Gene and Cell-based Therapies.

<i>topic</i>	<i>speaker</i>
Section B Introduction	Dr. Rosen
Prostate cancer gene expression profiling	Dr. Nelso
Traditional cancer therapies	Dr. Gralow
HER2/ <i>neu</i> and cancer vaccines	Dr. Disis

Adoptive cancer immunotherapy

Dr. Greenberg

Section B (Weeks 6-10): Cancer Biology and Therapy, Molecular, Gene and Cell-based Therapies – continued:

Rational drug design

Dr. Van Voorhis

Viral gene therapy

Dr. Russell

Stem cell therapy

Dr. Blau

Bench-to-bedside translation

Dr. Blau

Roles for clinical and translational research
in the medicine of tomorrow (Course summary)

Dr. Rosen