

**27th CURRENT COURSE ON IMMUNOGENETICS
DIDACTIC AND LABORATORY PARTS
and
23th CURRENT COURSE ON MOLECULAR GENETICS
DIDACTIC AND LABORATORY PARTS**

EDUCATIONAL PROGRAM OF ASHI

ABHI APPROVED FOR CONTINUING EDUCATION CREDITS (CEC'S)

ORGANIZED BY:

***THE DEPARTMENT OF IMMUNOLOGY AND IMMUNOGENETICS OF THE INSTITUTO DE
DIAGNOSTICO Y REFERENCIA EPIDEMIOLOGICOS, (InDRE), SECRETARY OF HEALTH
Mexico City***

UNDER THE AUSPICES OF:

**THE AMERICAN SOCIETY FOR HISTOCOMPATIBILITY & IMMUNOGENETICS (ASHI)
THE AMERICAN BOARD OF HISTOCOMPATIBILITY & IMMUNOGENETICS (ABHI)
FUNDACION COMPARTE VIDA, A.C.**

DATE: JULY 28-AUGUST 8, 2008

**IMMUNOGENETICS: JULY 28 –AUGUST 1st
MOLECULAR GENETICS: AUGUST 4- AUGUST 8**

**WITH THE ACADEMIC ACCREDITATION OF UNAM
(UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO)**

DIRECTOR OF THE COURSES: CLARA GORODEZKY

SITE, INFORMATION AND REGISTRATION:

***Department of Immunology and Immunogenetics, InDRE, CENA VECE, Secretary of Health
Carpio # 470-1st floor
Mexico D.F., 11340, MEXICO
E-Mail: clarag@servidor.unam.mx***

***Tel: (52 55)5341-4569; 5342-7557;
5342-7550 Ext. 364, 241,242
Fax: (52 55) 5341-4418 & 5281-0073***

LIMITED TO 28 STUDENTS

REGISTRATION FEES:

FOR THE LABORATORY PARTS

Didactic part only **\$650.00 each Course**
Didactic & Laboratory Parts **\$900.00 each Course**

27th CURRENT COURSE ON IMMUNOGENETICS DIDACTIC AND LABORATORY PARTS

MONDAY JULY 28

- 9.00-9.30 Opening Ceremony. General Director of InDRE
CELIA ALPUCHE
- 9.30-10.30 Genomic Medicine: Myths and Truth
LORENA OROZCO
- 10.30-11.30 Concepts in Immunology Relevant To Immunogenetics
CLARA GORODEZKY
- 11.30-11.50 COFFEE BREAK**
- 11.50-1.00 The Human MHC: HLA Class I And Class II Regions. Genetic Organization, Structure and Function
CLARA GORODEZKY
- 1.00-1.45 CONFERENCE AND LUNCH OFFERED BY MILTENYI BIOTEC**
Basic and Clinical Application of Cells Isolated With Magnetic Beads
FRANK KUNKEL
- 1.45-2.30 LUNCH- MILTENYI BIOTEC**
- 2.30-2.50 Laboratory Part: Drawing Of Blood**
- 2.50-3.50 Molecular Diagnosis and Prediction of Mendelian Diseases
ARIADNA GONZALEZ DEL ANGEL
- 3.50-4.50 Antigen Presentation and Biosynthesis of HLA Molecules
ANDREA ZACHARY
- 4.50-8.00 Laboratory Part: Isolation of Mononuclear Cells, Mixed Lymphocyte Culture**
FERNANDA PÉREZ **REBECA CEBALLOS** **ALEJANDRA VÁZQUEZ**
GONZALO LLIGUIN **DANAEE RODRÍGUEZ** **ELIZABETH SOLÍS**
DAVID GARCÍA **PATRICIA MUNGUÍA** **JOSE ANTONIO SIERRA**

TUESDAY, JULY 29

- 8.00-9.00 Laboratory Part: Mixed Lymphocyte Culture. (Cont.). Discussion Of The Results**
FERNANDA PÉREZ **ALEJANDRA VÁZQUEZ** **REBECA CEBALLOS**
DANAEE RODRIGUEZ **GONZALO LLIGUIN** **ELIZABETH SOLÍS**
DAVID GARCÍA **PATRICIA MUNGUIA** **JOSE ANTONIO SIERRA**
- 9.00-10.00 HLA and Disease. Molecular Mechanisms of HLA Autoimmune Associated Diseases
CLARA GORODEZKY
- 10.00-10.50 Genetic and Immunological Basis of Neuro-Cysticercosis
GLADIS FRAGOSO
- 10.50-11.15 COFFEE BREAK**
- 11.15-12.15 Methods for Isolation of Cell-Subpopulations: HLA Typing By Microlymphocytotoxicity
DOD STEWART
- 12.15-1.15 Basis Of Molecular Typing Of Class I and Class II Genes
SUE LEFFELL

1.15-2.00 **CONFERENCE AND LUNCH OFFERED BY TEPNEL LIFECODES**
Technology For HLA Typing, Other Genes And Detection And Specificity Identification Of HLA
Antibodies
DAVID NORDMAN

2.00-2.45 **LUNCH-TEPNEL-LIFECODES**

2.45-8.00 ***Laboratory Part: Methods Of Isolating Of Lymphocyte Subtypes: Nylon,
Monoclonal Antibodies, Magnetic-Beads. HLA Typing By Microlymphocytotoxicity
with Double Fluorescence Staining. Reading and Interpretation***

RICARDO ORDONEZ (USA)	FERNANDA PEREZ	REBECA CEBALLOS
RENATO VEGA (USA)	DANAEÉ RODRÍGUEZ	ALEJANDRA VAZQUEZ
GONZALO LLIGUIN	DAVID GARCÍA	ELIZABETH SOLÍS
PATRICIA MUNGUÍA	JOSE ANTONIO SIERRA	

WEDNESDAY 30

8.15-9.00 Problems And Strategies For The Accreditation Of An Immunogenetics Laboratory In Latin-America
ALEJANDRA VAZQUEZ

9.00-9.50 Cellular Monitoring In Solid Organ Transplantation
SUE LEFFELL

9.50-10.40 Current Methodology And Clinical Significance Of Cross-Matching For Solid Organ Transplantation
DOD STEWART

10.40-11.00 **COFFEE BREAK**

11.00-11.50 Interference Of Clinical Protocols Laboratory Tests. Causes And Solutions
ANDREA ZACHARY

11.50-12.40 Identification Of HLA Antibodies In Patients Using Cytotoxic, ELISA And Flow Cytometric Assays
DOD STEWART

12.40-8.00 ***Laboratory Part: Cross-Matching Testing. Identification of Antibodies Using Cell-Panel.
Interpretation Of The Results***

RICARDO ORDONEZ (USA)	DAVID GARCIA	ALEJANDRA VAZQUEZ
RENATO VEGA (USA)	DANAE E RODRIGUEZ	REBECA CEBALLOS
FERNANDA PEREZ	GONZALO LLIGUIN	ELIZABETH SOLIS
PATRICIA MUNGUIA	JOSE ANTONIO SIERRA	

15 **LUNCH-BREAK FOR THE LABORATORY PART**

THURSDAY 31

9.00-10.00 HLA And Platelet Antigen Specific Antibodies In Alloimmune Platelet Trasfusion Refractoriness And
TRALI
SUE LEFFELL

10.00-10.50 Desensitization Protocols And Factors Associated With Persistence Of Antibodies Anti-HLA.
ANDREA ZACHARY

10.50-11.10 **COFFEE BREAK**

11.10- 12.00 Effect (S) Of Killer Immunoglobulin- Like Receptor (KIR) Matching In Hematopoietic Stem Cell Transplantation (HSCT).

DAVID SENITZER

12.00-12.50 Evolution In Desensitized Transplanted Patients

ANDREA ZACHARY

12.50-1.25 CONFERENCE AND LUNCH OFFERED BY UNIPARTS

Different Methods For Obtaining DNA

GABRIELA SARABIA

1.25-2.10 LUNCH-UNIPARTS

2.10-8.00 Laboratory Part: 1. ELISA and Arraybeads Multi-Analyte System 2. Discussion of Results.

CARMEN ALAEZ

DAVID NORDMAN (USA)

DAVID GARCIA

ANDREA MUNGUIA

ARACELI RODRIGUEZ

DANAEE RODRIGUEZ

FERNANDA PEREZ

RICARDO RODOÑEZ

REBECA CEBALLOS

ALEJANDRA VAZQUEZ

GONZALO LLIGUIN

Micro-chips: RENATO VEGA (USA)

FRIDAY AUGUST 1st

8.00-9.00 Discussion Of Laboratory Results

9.00-9.50 Pathogenesis Of GVHD, GVL And Rejection In Bone Marrow Transplantation

SUE LEFFELL

9.50-10.40 Monitoring Relapse And/Or Rejection In HSC Transplantation

DAVID SENITZER

10.40-11.20 Ethical And Legal Aspects Of Solid Organ Transplantation

ARTURO DIB KURI

11.20-11.40 COFFEE BREAK

11.40-12.30 Cellular Therapy In Refractory Cardiac Insufficiency

RUBEN ARGUERO

12.30-1.10 Monitoring Immunosuppression of CD4+Lymphocytes in Hematopoietic Stem Cell Transplantation.

DAVID SENITZER

1.10-2.00 Characteristics of a Public Cord Blood Bank-**BACECU**: Analysis of Stored Units and Of Clinical Outcome

CLARA GORODEZKY

2.00-2.45 CONFERENCE AND LUNCH OFFERED BY ROCHE DIAGNOSTICS

Automatized System For HSC Monitoring In Peripheral Blood In HSC Transplantation

RAUL NIETO

2.45-3.30 LUNCH-ROCHE DIAGNOSTICS

3.30-4.15 Impact Of Genetic Diversity In Unrelated Bone Marrow Donor Registries: The Mexican Bone Marrow Donor Registry-**DONORMO**

CLARA GORODEZKY

- 4.15 -5.00 New Developments In HLA Matching For Hematopoietic Stem Cell Transplantation: Is There An Acceptable Mismatch?
DAVID SENITZER
- 5.00 -5.30 Strategies of research Donor or cells of Blood Cord non familiar for CPH transplant
CARMEN OROZCO
- 5.30 -5.50 **COFFEE BREAK**
- 5.50-6.45 Molecular Anthropology. Biological Significance And Its Relevance On The Epidemiology Of Human Populations
CLARA GORODEZKY
- 7.00 –7.45 **Delivery of Diplomas. Adjourn**
- 8.30-1.00 AM BANQUET OFFERED BY: Abbott Molecular, Corning Life Sciences, One Lambda & Uniparts**

23th CURRENT COURSE ON MOLECULAR GENETICS DIDACTIC AND LABORATORY PARTS

MONDAY AUGUST 4

- 9.00-9.30 Opening Ceremony. General Director of InDRE
CELIA ALPUCHE
- 9.30-10.30 From Genetics to Pharmacogenetics
MARISOL LOPEZ
- 10.30-11.20 Replication, Translation and Protein Synthesis
EUCLIDES AVILA
- 11.20-11.45 COFFEE BREAK**
- 11.45-12.35 Molecular Epidemiology: An Important Tool in Medicine
CLARA GORODEZKY
- 12.35-1.25 Molecular Pathogenesis of Alzheimer Disease Assamling Model Of: TAU Protein
RAÚL MENA
- 1.25-2.10 CONFERENCE AND LUNCH OFFERED BY ROCHE DIAGNOSTICS**
Relevance Of CMV, EBV and HZV I/ II Molecular Typing In Transplantation
OMAR RUVALCABA
- 2.10-3.00 LUNCH OFFERED BY ROCHE DIAGNOSTIS**
- 3.00-8.00 *Laboratory Part: Extraction and Purifying Of DNA Using Different Methods. Obtaining PCR Products for the Different Techiques. Electrophoresis Of The PCR Product***
CARMEN ALAEZ ANDREA MUNGUIA HILARIO FLORES
DAVID NORDMAN (USA) CAROLINA HERNANDEZ OLIVIA BAUTISTA
ARACELI RODRIGUEZ DAVID GARCIA LAURA TOVAR
FELICITAS MANZANAREZ

TUESDAY 5

- 9.00-9.45 Genetic Organization Of The MHC. The Role Of Class I And Class II Genes In Physiology
CLARA GORODEZKY
- 9.45-10.30 Theory And Practical Basis Of PCR
CARMEN ALAEZ
- 10.30-11.20 Diversity Of NK Cells Receptors.
RAJA RAJALINGAM
- 11.20-11.40 COFFEE BREAK**
- 11.40-12.20 Basics and Theory of Sequencing. Sequence Based Typing Of Class I and Class II Genes

CARMEN ALAEZ

12.20- 1.05 The Technology For The Use In Human Identity And Its Application
CAROLINA HERNANDEZ

1.05- 1.45 Quantitation Of Translocations For Leukemias
CAROLINA HERNANDEZ

1.45-2.30 CONFERENCE AND LUNCH OFFERED BY CELERA DIAGNOSTICS

Improved Method For The Monitoring Of Engraftment Following Allogeneic Hematopoietic Stem Cell Transplantation
JAN CAPPER

2.30-3.15 LUNCH-CELERA DIAGNOSTICS

3.15-8.00 Laboratory Part: PCR-SSP. Gene-Scan. Continuation Of DRB1 Sequencing
EMILIO NOVELO (USA) CARMEN ALAEZ ANDREA MUNGUIA
HILARIO FLORES CAROLINA HERNANDEZ DAVID NORDMAN (USA)
LAURA TOVAR ARACELI RODRIGUEZ DAVID GARCIA
OLIVIA BAUTISTA FELICITAS MANZANAREZ

WEDNESDAY 6

8.30-9.20 The Different Methods Used For Molecular Typing Of Class I And Class I Typing
MARCELO FERNANDEZ-VIÑA

9.20-10.10 Molecular Mechanisms Of MHC Disease Associations Including Drug Hypersensitivities And Susceptibility To Celiac Disease
JAMES McCLUSKEY

10.10-11.00 Population Diversity Of KIR-HLA Combinations And Relevance In Disease
RAJA RAJALINGAM

11.00-11.30 COFFEE BREAK

11.30-12.20 Typing Methods For NK Cell Receptors And Ligands
RAJA RAJALINGAM

12.20-1.10 How MHC-I Polymorphism Controls Antigen Selection In The Anti-Viral Immune Response
JAMES McCLUSKEY

1.10-1.55 CONFERENCE AND LUNCH OFFERED BY INNOGENETICS
Diagnostic Assays For HLA, Infectious Diseases And Genetic Disorders
ANGELA ALEXANDER

1.55-2.40 LUNCH-INNOGENETICS

2.40-8.00 Laboratory Part: Reverse Dot-Blot For HLA Typing And HPV Genotyping. Arraybeads Multi-Analyte SSOP System for HLA Class II Typing, Using Luminex Technology. Sequence Based Typing (Cont.)
CARMEN ALAEZ EMILIO NOVELO (USA) FELICITAS MANZANARES
HILARIO FLORES ANDREA MUNGUIA DAVID NORMAN (USA)
DAVID GARCIA ARACELI RODRIGUEZ OLIVIA BAUTISTA

THURSDAY 7

8.30-9.30 Origin And Evolution Of NK Cell Receptors

RAJA RAJALINGAM

9.30-10.30 The Molecular Basis Of T Cell Allorecognition
JAMES McCLUSKEY

10.30-11.00 COFFEE BREAK

11.00-12.00 The Role Of HLA-DPB1 In The Outcome Of Unrelated Donor Hematopoietic Stem Cell Transplantation
BRONWEN SHAW

12.00-12.45 CONFERENCE AND-LUNCH OFFERED BY APPLIED BIOSYSTEMS

Next Generation siRNA Technology

SUSAN MAGDALENO

12.45-1.30 LUNCH-APPLIED BIOSYSTEMS

1.30-2.30 Current State Of MHC And Diseases
MARCELO FERNANDEZ-VIÑA

2.30-3.15 Genetic Susceptibility Of Ophthalmologic Diseases
CARMEN ALAEZ

3.1 5-4.00 Immunobiology Of Minor Histocompatibility Antigens (mHA)
CARMEN ALAEZ

4.00-8.00 Demonstration Of The Dot Blot Technique Using Chemiluminescence: Interpretation Of SSP, Reverse Dot-Blot, Gene Scan, And Sequence Based Typing

CARMEN ALAEZ

EMILIO NOVELO (USA)

ANDREA MUNGUIA

CAROLINA HERNANDEZ

HILARIO FLORES

DAVID GARCIA

LAURA TOVAR

ARACELI RODRIGUEZ

OLIVIA BAUTISTA

FELICITAS MANZANAREZ

FRIDAY 8

8.30-9.30 Impact Of Classic And Non Classic HLA Incompatibilities In Unrelated HSC Transplantation
MARCELO FERNANDEZ-VIÑA.

9.30-10.30 Molecular Mechanisms Of HLA Disease Association In Infectious Diseases
CLARA GORODEZKY

10.30-11.30 The Fidelity, Occasional Promiscuity And Versatility Of T-Cell Receptor Recognition Of Glycolipids And Peptides
JAMES McCLUSKEY

11.30-12.00 COFFEE BREAK

12.00-1.00 Genetic Diversity Of Middle East And Inbred Populations
MARCELO FERNANDEZ VIÑA

1.00-1.45 CONFERENCE AND LUNCH OFFERED BY LIFE SCIENCE GROUP- BIO-RAD

Sinergy Among Different Molecular Techniques For The Analysis Of The pathways Used By iiRNA

PAVEL SUCHAN

1.45-2.30 LUNCH-OFFERED BY LIFE SCIENCE GROUP- BIO-RAD

2.30-3.30 The Reduced Intensity conditioning-indications, implications and outcomes
BRONWEN SHAW

- 3.30– 4.30 Functional Genetics And Genomics Of Malignancies
MAURICIO SALCEDO
- 4.30 – 4.50 COFFEE BREAK**
- 4.50-5.50 Donor Lymphocytes Infusions, Second Transplants And Other Options For Preventing And Treating Disease Relapse Posttransplantation
BRONWEN SHAW
- 5.50 –6.50 Realities And Myths And Ethical Aspects Of The Use Of Umbilical Cord Stem Cells For Bone Marrow Transplantation
CLARA GORODEZKY
- 7.00 - 7.40 Delivery of Diplomas. Adjourn**
- 8.30 - 1.00 AM BANQUET OFFERED BY Abbott Molcular, Corning Life Sciences, One Lambda and Uniparts**

INTERNATIONAL PROFESSORS

SUE LEFFELL

On Immunogenetics Laboratory
Johns Hopkins University
Baltimore, Maryland, USA

MARCELO FERNANDEZ-VIÑA

HLA Laboratory
MD Anderson Cancer Center
University of Texas
Houston, Texas, USA

BRONWEN SHAW

Institute of Cancer Research
Royal Marsden Hospital/Anthony
Nolan Trust
Londres, Inglaterra

JAMES McCLUSKEY

Dept. Of Microbiology &
Immunology.Faculty of Medicine,
Dentistry& Health Sciences
Parkville, Victoria, Australia

DAVID NORDMAN

Tepnel-Lifecodes
Stamford, Connecticut,USA

EMILIO NOVELO

One Lambda, Inc
Los Angeles California, USA

RICARDO ORDOÑEZ

One Lambda Inc
Los Angeles, California, USA

DAVID SENITZER

HLA Laboratory
City Of Hope. Duarte,

California,USA **DOD STEWART**

American Foundation For
Donation & Transplantation

ANDREA ZACHARY

Immunogenetics Laboratory

RAJA RAJALINGAM

Immunogenetics
Laboratory

New Orlenas, Luisiana, USA

Johns Hopkins University

UCLA Medical School
Baltimore, Maryland, USA

Los Angeles, California, USA

RENATO VEGA

Immunogenetics Laboratory
Johns Hopkins University
Baltimore, Maryland, USA

NATIONAL PROFESSORS

EUCLIDES AVILA

Department of Biology of the Reproduction. National Institute of Nutrition and Medical Sciences "Dr. Salvador Zubiran".

RUBEN ARGÜERO

General Director of Hospital De Cardiología. Centro Médico Nacional Siglo XXI, IMSS

CAROLINA HERNANDEZ

Applied Biosystems of Mexico.

REBECA CEBALLOS

Laboratory of Immunology. Dept. of Microbiology, Universidad Autónoma De Aguascalientes

ARTURO DIB KURI

General Director of The National Center For Transplantation

MARISOL LOPEZ

Department of Biological Systems. Division of Biological and Health Sciences. Universidad Autónoma Metropolitana

GLADIS FRAGOSO

Department of Immunology.
Institute of Biomedical Research. UNAM.

ARIADNA GONZÁLEZ DEL ANGEL

Department of Research on Human Genetics. Instituto Nacional De Pediatría, SSAN

CLARA GORODEZKY

Department. of Immunology & Immunogenetics, InDRE, SSA.

RAUL MENA

Dept. of Physiology and Neurosciences, CINVESTAV, IPN

MAURICIO SALCEDO

Laboratory of Human Genomic. Hospital of Oncology. CMN. Century XXI, IMSS.

LAURA TOVAR

Applied Biosystems of Mexico

LORENA OROZCO

Research Laboratory of Complex Diseases

PRESENTATIONS - LUNCHEES

ANGELA ALEXANDER

Innogenetics Apharetta. Giorgia

JAN CAPPER

Atria Genetics
San Francisco, California, EUA

DAVID NORDMAN

Tepnel-Lifecodes Stamford,

OMAR RUVALCABA

Roche Duagnostics
Mexico

GABRIELA MEDINA

Uniparts S.A. de C.V.

SUSAN MAGDALENO

Applied Biosystems
Hosuton, Texas

USA

PAVEL SUCHAN

Life Science Group- Bio-Rad
Prague, Czeck Republic

RAUL NIETO

Roche Diagnostics
Mexico

FRANK KUNKEL

Miltenyi-Biotec GmbH
Gernamy

**PROFESSORS AND COLLABORATORS OF THE DEPARTMENT OF
IMMUNOGENETICS, InDRE**

CARMEN ALÁEZ

HILARIO FLORES

GONZALO LLIGUIN

DAVID GARCÍA

FELÍCITAS MANZANARES

FERNANDA PEREZ

PATRICIA MUNGUIA

DELFINO DIAZ

IVONNE HERNANDEZ

RAUL MARTÍNEZ

ANDREA MUNGUÍA

ARACELI RODRÍGUEZ

ELIZABETH SOLÍS

MARICELA GARCIA

ALEJANDRA VÁZQUEZ

ZORAIDA GALVAN

JANETTE ALVAREZ

OLIVIA BAUTISTA

OSCAR ESCALANTE

ROBERTO HERNÁNDEZ

DANAEE RODRÍGUEZ

JOSE ANTONIO SIERRA

CARMEN OROZCO

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