

**XXXV CURRENT COURSE ON IMMUNOGENETICS AND
XXXI 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 DIAGNÓSTICO Y REFERENCIA EPIDEMIOLÓGICOS, (InDRE), SECRETARY OF
HEALTH**

UNDER THE AUSPICES OF:

**THE AMERICAN SOCIETY FOR HISTOCOMPATIBILITY & IMMUNOGENETICS (ASHI)
LA FUNDACIÓN COMPARTE VIDA, A.C.**

**MEETING DATES: DIDACTIC PARTS: July the 25th to July the 29th, 2016
LABORATORY PARTS: IMMUNOGENETICS OR MOLECULAR GENETICS
AUGUST 1st TO AUGUST THE 5th, 2016;**

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

&

THE AMERICAN BOARD OF HISTOCOMPATIBILITY & IMMUNOGENETICS (ABHI)

DIRECTOR OF THE COURSES: CLARA GORODEZKY

INFORMATION, REGISTRATION & VENUE:

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REGISTRATION FEES:

DIDACTIC PART

\$1250.00 USD

LABORATORY PART

\$1,550.00 USD (INCLUDES THE DIDACTIC PA

ACADEMIC PROGRAM

Monday July 25th

- 8.00-9.00** **Registration Open**
- 9.00-9.30 Opening by The General Associate Director of InDRE
JOSE ALBERTO DÍAZ QUIÑÓNEZ
- 9.30-10.30 Concepts in Immunology Relevant to Immunogenetics
CLARA GORODEZKY
- 10.30-11.30 The Human MHC: HLA. Genetic Organization, Structure and Function.
CLARA GORODEZKY
- 11.30-11.50** **COFFEE BREAK-FUJIREBIO**
- 11.50–12.50 The MHC: Polymorphism, Evolution and Biological significance
RAJA RAJALINGAM
- 12.50-1.40** **Presentation Offered By IMMUCOR TRANSPLANT DIAGNOSTICS**
Current Lifecodes Technology: *Luminex* Testing for DNA and HLA Antibodies
ELLIA GOMES
- 1.40-2.30** **LUNCH-IMMUCOR TRANSPLANT DIAGNOSTICS**
- 2.30-3.30 KIR Receptors (Killer-like Immunoglobulin Receptors): Diversity, Polymorphism and Evolution
RAJA RAJALINGAM
- 3.30-4.20 Clinical Impact of Genetic Counseling with Molecular Studies in Pediatrics
ARIADNA GONZÁLEZ DEL ÁNGEL
- 4.20-4.40** **COFFEE BREAK-FUJIREBIO**
- 4.40-5.30 Importance of Cytogenetics and Cytogenomics in the Clinical Setting
EMII YOKOYAMA
- 5.30-6.30 Neuropathological Analysis and its Usefulness in The Early Diagnosis of Molecular Dementias
JOSÉ LUNA MUÑOZ

TUESDAY July 26th

- 8.30-9.20 The MHC and Disease. Mechanisms of Association
MARÍA BETTINOTTI
- 9.20-10.10 Diversity of KIR/HLA Combinations and Their Relevance in Solid Organ Transplantation and Complex Genetic Diseases.
RAJA RAJALINGAM
- 10.10-11.00 Methods For The Analysis Of Anti-HLA Antibodies In Solid Organ Transplantation
LUIS G. HIDALGO
- 11.00-11.20** **COFFEE BREAK ACCESOLAB**
- 11.20 -12.10 HLA Epitope Characterization, in HLA Antibodies and Their Use in Solid Organ Transplantation
MARCELO FERNÁNDEZ-VIÑA

- 12.10-1.00 Clinical Power and Strength of the Multiplex Assays for Anti-HLA Testing Pre and Post-Transplant
LUIS. G. HIDALGO
Presentation Offered by ABALAT
- 1.00- 1.50 Mechanisms Of Acute And Chronic Rejection In Solid Organ Transplantation
MILLIE SAMANIEGO
- 1.50-2.50 LUNCH-ABALAT**
- 2.50-3.40 Importance Of The Histocompatibility Laboratory In The Management Of The Kidney Transplant Patient
MILLIE SAMANIEGO
- 3.40 -4.30 Diversity of Methods For Molecular Typing Of HLA Genes
MARÍA BETTINOTTI
- 4.30-4.50 COFFEE BREAK ACCESOLAB**
- 4.50-5.40 Applications of Cell Subsets Treatment with Magnetic Beads (MACS) in The Research and Clinical Setting
FRANK KÜNKEL
- 5.40-6.30 Immunological Basis Of HSC Transplantation (Hematopoietic Stem Cells)
MARÍA BETTINOTTI

WEDNESDAY JULY 27TH

- 8.15-9.00 Mechanisms and Control of T-Cell Acute Mediated Rejection in Solid Organ Transplantation
LUIS G HIDALGO
- 9.00-9.45 Mechanisms and Treatment of Type I and Type II Diabetes Mellitus
MILLIE SAMANIEGO
- 9.45-10.30 The Era of Next Generation Sequencing (NGS) is Now!
CARLA WIRTZ
- 10.30-10.50 COFFEE BREAK -OLERUP**
- 10.50-11.30 Chronic Kidney, Liver and Heart Disease
MILLIE SAMANIEGO
- 11.30-12.15 Immune Mechanisms Of Humoral Rejection – Relevance of NK Cells
LUIS G. HIDALGO
- 12.15 -1.00 NGS For MHC Genes Typing And Their Impact In HSC Transplantation
MARCELO FERNÁNDEZ VIÑA
- 1.00 – 1.45 Clinical Aspects For Optimal Donor Selection For HSCs Transplantation
DAVID SENITZER
- 1.45-2.45 LUNCH- BIOTECH DEL NORTE (DISTR. DE ILLUMINA)**
- 2.45 -3.30 Effect Of KIR Genes In HSCs Unrelated Transplantation
JOANNIS MYTILINEOS
- 3.30-4.15 Methods And Importance Of Graft Molecular Monitoring, In HSC Transplantation
DAVID SENITZER
- 4.15- 5.00 Relevance of Gastrointestinal Flora in Graft Vs. Host. Disease (GVHD)
AMIN ALOUSI

5.00-5.20 COFFEE BREAK-OLERUP

5.20-6.10 HLA typing of Genes Using High Resolution Mass Sequencing (NGS) with a home method
JOANNIS MYTILINEOS

6.00-6.50 Clinical Relevance of HLA Antibodies in HSC Transplantation
MARÍA BETTINOTTI

THURSDAY July 28TH

8.15-8.45 Clinical Use of XM-ONE: Assessment of the Risk of Solid Organ Rejection
MANUEL CARREÑO (
Presentation Offered by OLERUP

8.45-9.30 Genome Massive sequencing and its Application in Cancer
DORA GARNICA

9.30-10.20 Unambiguous High Resolution Typing Using TrueSight HLA NGS
CARLA WIRTZ

10.20-11.10 Molecular Immunogenetics and Predictive Medicine In Celiac Disease
MARÍA BETTINOTTI

11.10-11.30 COFFEE BREAK-ASURAGEN

11.30- 12.20 Importance of Using NGS HLA Typing For MHC and Disease Associations
MARCELO FERNÁNDEZ-VIÑA

12.20-1.10 Applications of Pharmacogenomics in Immunogenetics
CLARA GORODEZKY

1.10-2.10 LUNCH-UNIPARTS

2.10-3.00 Compatibility importance of HLA in transplantation with Donor Unrelated HPCs
JOANNIS MYTILINEOS

3.00-3.45 National Subsystem For Donation and For Solid Organ and Tissue Transplantation
JOSÉ SALVADOR ABURTO

3.45- 4.00 COFFEE BREAK-ASURAGEN

4.00-4.45 When To Use An Haploidentical HSC Transplant?
AMIN ALOUSI

4.45-5.30 MHC diversity in populations of the Middle East: Origins and Migrations
MARCELO FERNANDEZ-VIÑA

FRIDAY July 29TH

8.00-8.40 Importance of Accreditation for an HLA Laboratory in Latin America
ALEJANDRA VÁZQUEZ

8.40 -9.30 PCR-Real-Time PCR technology for KIR and HLA Genes Typing
MATTHEW FROME
Presentation Offered by Linkage Biosciences

9.30-10.20 Human Identification And Application In Different Areas Of Biomedicine
ARI FRANCO

10.20-11.10 Working Solutions for The Biology Laboratory
MÓNICA PÉREZ
Presentation Offered by Promega Corp.

- 11.10-11.30 COFFEE BREAK-PROMEGA**
- 11.30-12.30 Impact Of Genetic Diversity in Unrelated Donors Selection For HSCs transplantation. The Mexican Registry: **DONORMO CLARA GORODEZKY**
- 12.30-1.20 Advances In Woldwide Heart Transplantation
GUILLERMO CAREAGA
- 1.20-2.20 LUNCH-THERMO FISHER SCIENTIFIC**
- 2.20-3.10 Public Cord Blood Banks-**BACECU**: Selection Criteria, Advantages And Disadvantages For HSC Transplantation.
CLARA GORODEZKY
- 3.10-4.00 Selection Criteris and Clinical Evolution Using Cord Blood Cells For HSC Transplants in Children And In Adults
AMIN ALOUSI
- 4.00-4.30 Accreditation Requirements For Cord Blood Banks
EMA
- 4.30-4.50 COFFEE BREAK PROMEGA**
- 4.50-5.40 Adoptive T cell therapy for HPCs Transplantation.
DAVID SENITZER
- 5.40--6.40 Importance of MHC on the Epidemiology of Mexicans. Use of NGS for Molecular Anthropology
CLARA GORODEZKY
- 6.40-7.15 Closing and Delivery of Diplomas
- 8.30-1.00 AM CLOSING BANQUET. OFFERED OF: IMMUCOR, ONE LAMBDA & UNIPARTS**

**XXXV LABORATORY CURRENT COURSE ON IMMUNOGENETICS
AUGUST 1ST-5th, 2016**

MONDAY, AUGUST THE 1ST

- 8.15-9.00 REGISTRATION**
- 9.00-9.30 Groups Organization And Samples Drawing
- 9.30-1.00 Isolation Methodology For Lymphocyte Subpopulations: Nylon, Monoclonal Antibodies and Magnetic Bead Isolation.
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|-------------------------------------|-------------------------|--------------------------|
| FERNANDA PÉREZ | DANAEÉ RODRÍGUEZ | ALEJANDRA VÁZQUEZ |
| <u>RICARDO ORDOÑEZ (EUA)</u> | ELIZABETH GARCÍA | ELIZABETH SOLÍS |
| HAYDÉE MARTÍNEZ | RUTH RODRÍGUEZ | |
- 1.00-2.00 LUNCH-CORNING**
- 2.00-5.00 HLA Micrlophocytotoxicity Typing Using Double Fluorescence Staining. Presentation of The Technologies. Reading And Interpretation. Results Discussion.

TUESDAY THE 2nd

- 8.30 -1.00 XM-ONE Crossmatching For The Determination Of Anti-Endotelial Antibodies
MANUEL CARREÑO (EUA) ALEJANDRA VÁZQUEZ ELIZABETH GARCÍA

**DANAEÉ RODRÍGUEZ
HAYDÉE MARTÍNEZ**

**FERNANDA PÉREZ
RUTH RODRÍGUEZ**

**ELIZABETH SOLÍS
GABRIELA RAMÍREZ**

1.00-2.00 LUNCH-BIODIST

2.00- 5.00 Presentación de las Tecnologías. Interpretación y Discusión de los Resultados

WEDNESDAY THE 3^d

8.30-1.00 Cross Matching Technology For Transplantation Testing. Antibody Detection Using Microlymphocytotoxicity with a Cell Panel. Results and Interpretation

**FERNANDA PÉREZ
EMILIO NOVELO (EUA)
HAYDÉE MARTÍNEZ**

**DANAEÉ RODRÍGUEZ
ELIZABETH GARCÍA
RUTH RODRÍGUEZ**

**ALEJANDRA VÁZQUEZ
ELIZABETH SOLÍS**

1.00- 2.00 LUNCH-PROTRANS

2.00-5.00 Technology Presentations. Interpretation And Results Discussion.

THURSDAY THE 4th

8.30-1.00 NK Cell Isolation and CD34+ Cells Quantitation From Bone Marrow Or Peripheral Blood Using Flow Cytometry en CPHs.

**ALEJANDRA VÁZQUEZ
DANAEÉ RODRÍGUEZ
HAYDÉE MARTÍNEZ**

**ELIZABETH GARCÍA
GABRIELA RAMÍREZ
RUTH RODRÍGUEZ**

**FERNANDA PÉREZ
ELIZABETH SOLÍS**

1.00-2.00 LUNCH-MILTENYI BIOTEC

2.00- 5.00 Continuation of The Technology. Interpretation and discussion Of The Results.

FRIDAY THE 5th

8.30-1.00 HLA-Antibodies Identification Using an ELISA System And ArrayBeads Multi-Analyte With The Luminex Instrument.

**EMILIO NOVELO
ALEJANDRA CAVAZOS
HAYDÉE MARTÍNEZ**

**ELLIA GOMES (EUA)
DANAEÉ RODRÍGUEZ
ALEJANDRA VÁZQUEZ**

**ELIZABETH GARCÍA
FERNANDA PÉREZ**

1.00-2.00 LUNCH-LINKAGE BIOSCIENCES

2.00-5.00 Interpretation and discussion of The Results Comparing All the Antibody Testing Technologies

8.30-1.00 CLOSING BANQUET: OFFERED BY IMMUCOR, ONE LAMBDA & UNIPARTS

**XXXI LABORATORY CURRENT COURSE ON IMMUNOGENETICS
AUGUST 1ST-5th, 2016**

MONDAY, AUGUST THE 1ST

8.15-9.00 REGISTRATION

9.00-9.30 Groups Organization And Samples Drawing

9.30-1.00. DNA Isolation and Purification Using Different Technologies. PCR Product Obtention for Human Identity. Chimerism, Sequence Based Typing And The Different HLA Typing Technologies.

HILARIO FLORES
ARI FRANCO CEA
MIRIAM VALENCIA
FELÍCITAS MANZANARES

ANDREA MUNGUÍA
ELLIA GOMES
AIDA DELGADO

BETSY GONZÁLEZ
ARACELI RODRÍGUEZ
ENRIQUE BONILLA

1.00-2.00 LUNCH-CORNING

2.00- 5.00 Continuation Of The Technologies. Presentation of the Methods. Interpretation and Discussion Of The Results.

TUESDAY THE 2nd

8.30-1.00 Continuation of Human Identity, Chimerism and SBT Technologies. BCR/ABL Quantitation By Real Time-PCR

HILARIO FLORES
BETSY GONZÁLEZ
ARACELI RODRÍGUEZ
MIRIAM VALENCIA

ARIADNA RUIZ LOREDO
ARI FRANCO CEA
ALEJANDRA CAVAZOS
ENRIQUE BONILLA

ELLIA GOMES
ANDREA MUNGUÍA
AIDA DELGADO
FELÍCITAS MANZANARES

1.00-2.00 LUNCH-BIODIST

2.00-5.00 HLA Typing Using Reverse-Dot-Blot. Presentation of The Technologies, Interpretation an Discussion of The Results.

WEDNESDAY THE 3^d

8.30-1.00 Microarray System Using Luminex dor HLA Typing. Continuation Of Reverse Dot-Blot, SBT And BCR/ABL Translocations. HLA Typing Using SSP.

ELLIA GOMES
GONZÁLEZ
ARI FRANCO CEA
MIRIAM VALENCIA

EMILIO NOVELO
ARACELI RODRÍGUEZ
ALEJANDRA CAVAZOS
ENRIQUE BONILLA

ANDREA MUNGUÍA BETSY
HILARIO FLOES
AIDA DELGADO
FELICITAS MANZANARES

1.00-2.00 LUNCH-PROTRANS

2.00-5.00 Presentation of The Technologies- Interpretation and Discussion Of The Results.,

THURSDAY THE 4th

8.30-1.00 HPV Genotyping. Continuation Of SSP, Gene-Scan, SBT; Chimerism Assays. SNPs Genotyping For Cytokyne Polymorphisms. Luminex For BCR/ABL Quantitation

HILARIO FLORES
ANDREA MUNGUÍA
AIDA DELGADO
MIRIAM VALENCIA

BETSY GONZALEZ
ARI FRANCO CEA
ARACELI RODRÍGUEZ
FELÍCITAS MANZANAREZ

EMILIO NOVELO (EUA)
ELLIA GOMES (EUA)
ENRIQUE BONILLA

1.00-2.00 LUNCH- MILTENYI-BIOTEC

2.00-5.00 Presentation Of The Technologies. Interpretation Discussion Of The Results.

FRIDAY THE 5th

8.30-1.00 Linkage-Biosciences Technology For HLA Typing and For KIR Genes Typing, Using The LinkSeq Kits.

MATTHEW FROME

1.00-2.00 LUNCH LINKAGE BIOSCIENCES

1.50-5.00 Presentation Of The Technologies. Interpretation Of The Results For HPV And Real Time PCR Assays.

8.30-1.00 AM CLOSING BANQUET . OFFERED BY IMMUCOR, ONE LAMBDA & UNIPARTS

INTERNATIONAL FACULTY

MARÍA BETTINOTTI
Assistant Prof. of Medicine
Associate Director
Immunogenetics Laboratory
Division of Immunogenetics &
Transplantation Immunology
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JOANNIS MYTILINEOS
Director Transplantation
Immunology
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Unit of Immunogenetics
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CARLA WIRTZ
Staff Field Application
Scientist, HLA
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San Diego, CA, EUA

MILLIE SAMANIEGO
Medical Director.
Kidney Transplantation &
Transplantation ACU.
Division of Nephrology.
University of Michigan Health
System
Ann Arbor, Michigan, EUA

MARCELO FERNANDEZ-VIÑA
Immunogenetics and Disease
Profiling Laboratory.
Stanford University. Stanford
Medical School Blood Center
Palo Alto, California, EUA

DAVID SENITZER
Clinical Prof. of Hematology &
Hematopoietic Stem Cell
Transplantation. Director,
Histocompatibility Laboratory
City of Hope, National Cancer
Center
Duarte, California, EUA

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Associate Director, HLA
Laboratory: Cell Culture
Immunology and Core Team
Leader of Research. University of
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Edmonton, Alberta, Canada

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Director, Immunogenetics and
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Global Head of Exports
MILTENYI-BIOTEC, GmbH
Bergisch Gladbach
Alemania

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Stem Cell Transplantation &
Cellular Therapy
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Scientific Advisor & Consultant
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Madison, Wisconsin, EUA

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Director General del Centro Nacional de Trasplantes, Secretaría de Salud

GUILLERMO CAREAGA
Director General y División De Cirugía Cardio-Torácica. CMN, La Raza, IMSS

ARI FRANCO CEA
Thermo Fisher Scientific

ALEJANDRA CAVAZOS

Asesora en Inmunología. Uniparts, S.A. de C.V.

CLARA GORODEZKY

Depto. de Inmunología e Inmunogenética, InDRE, Secretaría de Salud

JOSÉ LUNA MUÑOZ

Unidad del Banco Nacional de Cerebros, LaNCE. CINVESTAV, IPN

DORA GARNICA

Thermo Fisher Scientific (Marca:Life Technologies)

GABRIELA RAMÍREZ

Asesora en Citometría de Flujo. Uniparts, S.A. de C.V.

HAYDÉE MARTÍNEZ

Depto. De Inmunología y Microbiología. Universidad Autónoma de Aguascalientes, Ags.

EMİY YOKOYAMA

Depto. De Genética Humana. Instituto Nacional de Pediatría. Secretaría de Salud

CONFERENCIAS-LUNCHES-RECESOS

MILTENYI BIOTEC, GmbH
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Austin, Tx. EUA

PROMEGA CORP.
Madison, Wisconsin, EUA

BIODIST S.A. DE C.V.
México, D.F. México

PROFESORES Y COLABORADORES DEL DEPARTAMENTO DE INMUNOLOGÍA E INMUNOGENÉTICA Y DE LA FUNDACIÓN COMPARTE VIDA, A.C. InDRE

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ANDREA MUNGUÍA
BETSY GONZÁLEZ
FELÍCITAS MANZANARES
ALEJANDRA VÁZQUEZ
FERNANDA PÉREZ
ABRAHAM ZARATE**

**ELIZABETH GARCÍA
HILARIO FLORES
ARACELI RODRÍGUEZ
ROSA MARÍA RAMÍREZ
DANAEE RODRÍGUEZ
ELIZABETH SOLÍS
RUTH RODRÍGUEZ
ARMANDO GARCÍA**

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PATRICIA DEL CASTILLO
DORA RUBIO
LYDIA MÉNDEZ
NORA CADENA
MIRIAM VALENCIA
ROSA MA. RAMÍREZ**

PATROCINADORES

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ACCESOLAB, S.A. DE C.V.**

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CORNING LIFE SCIENCES
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ISA CORPORATIVO, S.A de C
FUJIREBIO, Inc.
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OLERUP, INC.
ONE LAMBDA, Inc. (Part of Thermo Fisher Scientific)
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PROTRANS GmbH
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TOTALGROUND
UNIPARTS, S.A. de C.V.