



SALUD
SECRETARÍA DE SALUD



INSTITUTO NACIONAL DE
CIENCIAS MÉDICAS
Y NUTRICIÓN
SALVADOR ZUBIRÁN

Ciudad de México, a 19 de agosto de 2024

Dra. María Castañeda Bueno

Coordinadora

Comité Interno de Cuidado y Uso de Animales de Laboratorio

Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

Estimada Dra. Castañeda,

Le escribo para solicitar el cierre del proyecto "Determinantes Moleculares del Fenotipo y Función de Células T Reguladoras Periféricas", con número de registro CINVA-IRE-1887-17/19-1, debido a que el proyecto ha concluido.

Sin otro particular, quedo de usted.

Atentamente,

Dr. José Carlos Crispín Acuña

Investigador en Ciencias Médicas "F"

Departamento de Inmunología y Reumatología



2024
AÑO DE

**Felipe Carrillo
PUERTO**

GOBIERNO DEL PROLETARIADO,
REVOLUCIONARIO Y DEFENSOR
DEL MAYA

Plásmidos generados en el proyecto

Número	Plásmido	Blanco
1	LentiCRISPRv2.Tgfbr1ex4	<i>Tgfbr1</i> exón 4
2	LentiCRISPRv2.Tgfbr2ex1	<i>Tgfbr2</i> exón 1
3	LentiCRISPRv2.Tgfbr2ex4	<i>Tgfbr2</i> exón 4
4	LentiCRISPRv2.Smad2ex3	<i>Smad2</i> exón 3
5	LentiCRISPRv2.Smad3ex2	<i>Smad3</i> exón 2
6	LentiCRISPRv2.Smad3ex3	<i>Smad3</i> exón 3
7	LentiCRISPRv2.Junex1a	<i>Jun</i> exón 1
8	LentiCRISPRv2.Junex1b	<i>Jun</i> exón 1
9	LentiCRISPRv2.Fosex1	<i>Fos</i> exón 1

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2020 FOCIS Abstract Supplement

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Native residents of the Midwest and West exhibited the highest IMID mortality risk relative to general population.

Conclusions: Ranking of IMID among the leading causes of death emphasizes their high burden of disease. Akin to cancers, IMIDs should be considered as a collective disease entity. The recognition of IMID as a major public health problem may influence healthcare prioritization, and research funding, which is ~7-fold less for IMID than for cancers (965-million vs 6,610-million US dollars in 2019). Furthermore, profound sex, race and geographic disparities exist in IMID mortality.

TH287. Identification of Cell-Surface Markers Associated with Regulatory T Cells in Multiple Sclerosis

Marco Tapia-Maltos, Irene Treviño-Frenk, Héctor García-González, Florencia Rosetti, Vanessa Barriga-Maldonado, Fernando Morales, Citlalli López-Hernández and José Crispín

Instituto Nacional de Ciencias Médicas y Nutrición "Salvador Zubirán", Mexico City, Distrito Federal, Mexico

Multiple sclerosis (MS) is a chronic autoimmune disease associated with altered regulatory T cell (Treg) suppressive function. We selected nine proteins associated with Treg inhibitory capacity and investigated whether their expression was altered in MS patients.

PBMCs were obtained from untreated MS patients and from age and sex-matched controls (n = 31). Multi-color flow cytometry was used to measure the markers in T CD4⁺ Foxp3⁺ cells, Tregs, Helios⁺ Tregs (nTregs), and Helios⁻ Tregs (pTregs).

MS patients had an increase in the percentage of pTregs (all, p = 0.0237; progressive, p = 0.0429). There was an increase in the percentage of BTLA⁺ Tregs in all MS (p = 0.0446) and in RRMS patients (p = 0.0250), an increase in the percentage of GARP⁺ Tregs in all MS (p = 0.0357) and in RRMS patients (p = 0.0261), an increase in DNAM1⁺ Tregs in P-MS patients (p = 0.0315), and a decrease in ABCA1⁺ Tregs in all MS patients (p = 0.0449). There was a positive correlation between ABCA1⁺ Tregs and the age of disease onset (r = 0.54, p = 0.04), and negative correlations between ABCA1⁺ Tregs and EDSS score (r = -0.76, p = 0.0009) and between ABCA1⁺ Tregs and EDSS/years (r = -0.64, p = 0.0097).

Our results show altered frequencies of previously unknown surface markers in Tregs from MS patients that could contribute to their altered functional capacity.

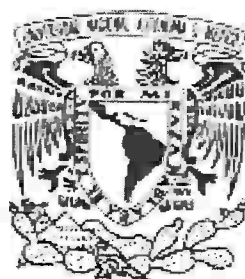
TH292. The role of CD8:B-lymphocyte interactions in type 1 diabetes pathogenesis

Emily Hanton¹, Yuk-Fun Liu², Timothy Tree³ and Mark Peakman⁴

¹*School of Immunology and Microbial Sciences, King's College London, London, England, United Kingdom*, ²*Division of Diabetes and Nutrition, King's College London, London, England, United Kingdom*

Líneas celulares genéticamente modificadas

Número	Línea	Gen	Exón
1	Tgfbr1_01	<i>Tgfbr1</i>	4
2	Tgfbr1_02	<i>Tgfbr1</i>	4
3	Tgfbr2_01	<i>Tgfbr2</i>	1
4	Tgfbr2_02	<i>Tgfbr2</i>	1
5	Tgfbr2_03	<i>Tgfbr2</i>	4
6	Tgfbr2_04	<i>Tgfbr2</i>	4
7	Smad2_01	<i>Smad2</i>	3
8	Smad2_02	<i>Smad2</i>	3
9	Smad2_03	<i>Smad2</i>	3
10	Smad3_01	<i>Smad3</i>	2
11	Smad3_02	<i>Smad3</i>	2
12	Smad3_03	<i>Smad3</i>	3
13	Jun_01	<i>Jun</i>	1a
14	Jun_02	<i>Jun</i>	1b
15	Fos_01	<i>Fos</i>	1
16	Fos_02	<i>Fos</i>	1



Universidad Nacional Autónoma de México

Plan de Estudios Combinados en Medicina

Facultad de Medicina

Identificación de biomarcadores asociados a función reguladora en pacientes con esclerosis múltiple

T E S I S

Que para optar por el grado de:

Doctor en Medicina

PRESENTA

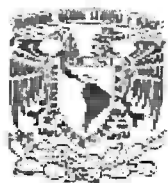
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DIRECTOR DE TESIS

José Carlos Crispín Acuña

Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

Ciudad Universitaria. Ciudad de México, enero 2021



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GENERACIÓN DE UNA LIBRERÍA GENÉTICA PARA LA DISECCIÓN
MOLECULAR DE LA VÍA DE SEÑALIZACIÓN DE TGF- β EN UNA
LÍNEA CELULAR MURINA

T E S I S

QUE PARA OBTENER EL TÍTULO DE
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