

# Stanford

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## Marcela Alcantara Hernandez

Postdoctoral Research Fellow, Microbiology and Immunology

### Bio

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#### BIO

My research interest is to understand how human dendritic cell (DC) subsets control immunity and tolerance. Particularly, I am very interested in dissecting how this major immunological axis (i.e., the DC network) contributes to control disease development. I am also interested in developing strategies to harness this immunological axis for the rational design of treatments.

#### HONORS AND AWARDS

- Honors in Masters degree, National Polytechnic Institute of Mexico (2010)
- Honors in PhD degree, National Polytechnic Institute of Mexico (2014)
- Postdoctoral Fellowship, CONACyT (2014)
- Stanford Dean's Fellowship, Stanford University (2016)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Instituto Politecnico Nacional (2014)
- Master of Science, Instituto Politecnico Nacional (2010)
- Bachelor of Science, Universidad La Salle (2008)

#### STANFORD ADVISORS

- Juliana Idoyaga, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Juliana Idoyaga, Idoyaga Lab (9/1/2014)

### Publications

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#### PUBLICATIONS

- **Vaccination-induced skin-resident memory CD8(+) T cells mediate strong protection against cutaneous melanoma** *ONCOIMMUNOLOGY*  
Galvez-Cancino, F., Lopez, E., Menares, E., Diaz, X., Flores, C., Caceres, P., Hidalgo, S., Chovar, O., Alcantara-Hernandez, M., Borgna, V., Varas-Godoy, M., Salazar-Onfray, F., Idoyaga, et al  
2018; 7 (7): e1442163
- **High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization.** *Immunity*  
Alcántara-Hernández, M., Lylek, R., Wagar, L. E., Engleman, E. G., Keler, T., Marinkovich, M. P., Davis, M. M., Nolan, G. P., Idoyaga, J.

2017

- **Overexpression of hypoxia-inducible factor 1 alpha impacts FoxP3 levels in mycosis fungoides-Cutaneous T-cell lymphoma: Clinical implications** *INTERNATIONAL JOURNAL OF CANCER*  
Alcantara-Hernandez, M., Torres-Zarate, C., Perez-Montesinos, G., Jurado-SantaCruz, F., Dominguez-Gomez, M. A., Peniche-Castellanos, A., Ferat-Osorio, E., Neri, N., Nambo, M. J., Alvarado-Cabrero, I., Moreno-Lafont, M., Huerta-Yepez, S., Bonifaz, et al  
2014; 134 (9): 2136-2145
- **Helminth-excreted/secreted products are recognized by multiple receptors on DCs to block the TLR response and bias Th2 polarization in a cRAF dependent pathway** *FASEB JOURNAL*  
Terrazas, C. A., Alcantara-Hernandez, M., Bonifaz, L., Terrazas, L. I., Satoskar, A. R.  
2013; 27 (11): 4547-4560
- **Pathogenic CCR6+ dendritic cells in the skin lesions of discoid lupus patients: a role for damage-associated molecular patterns** *EUROPEAN JOURNAL OF DERMATOLOGY*  
Mendez-Reguera, A., Perez-Montesinos, G., Alcantara-Hernandez, M., Martinez-Estrada, V., Rafael Cazarin-Barrientos, J., Rojas-Espinosa, O., Jurado-Santacruz, F., Huerta-Yepez, S., Bonifaz-Alfonzo, L.  
2013; 23 (2): 169-182
- **A Toll/IL-1R/resistance domain-containing thioredoxin regulates phagocytosis in Entamoeba histolytica** *PARASITES & VECTORS*  
Mancilla-Herrera, I., Mendez-Tenorio, A., Wong-Baeza, I., Jimenez-Urbe, A. P., Alcantara-Hernandez, M., Ocadiz-Ruiz, R., Moreno-Eutimio, M. A., Arriaga-Pizano, L. A., Lopez-Macias, C., Gonzalez-y-Merchand, J., Isibasi, A.  
2012; 5
- **The Role of Lipopeptidophosphoglycan in the Immune Response to Entamoeba histolytica** *JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY*  
Wong-Baeza, I., Alcantara-Hernandez, M., Mancilla-Herrera, I., Ramirez-Saldivar, I., Arriaga-Pizano, L., Ferat-Osorio, E., Lopez-Macias, C., Isibasi, A.  
2010