



Juliana Idoyaga

Assistant Professor of Microbiology and Immunology
Microbiology & Immunology

CONTACT INFORMATION

• Administrative Contact

Monica Cryan - Administrative Associate

Email mlcryan@stanford.edu

Tel (650) 498-8035

Bio

BIO

Juliana Idoyaga, Ph.D., is an Assistant Professor in the Department of Microbiology and Immunology at Stanford University School of Medicine where she studies the basic biology of dendritic cells and their applications towards therapeutics. In addition to her research, she is heavily committed to diversity, equity and inclusion in STEM, and the career development of undergraduate, graduate and postdoctoral trainees.

Dr. Idoyaga received her BSc in Biology and Immunology from the Buenos Aires University in Argentina. She then completed her PhD in Immunology and Biomedical Sciences with honors at the National Autonomous University of Mexico. She performed her postdoctoral training in the laboratory of Cellular Physiology and Immunology at The Rockefeller University under the mentorship of the late Nobel Laureate Dr. Ralph Steinman. She joined Stanford Faculty in July 2014. In addition to her faculty role, Dr. Idoyaga serves as the chair of the CDIII (Community, Diversity and Inclusion in Immunology) Committee, which has the important goal of promoting a culture of diversity, equity, inclusion and belonging in the Stanford Immunology Program. Dr. Idoyaga has received various awards including the NIH Pathway to Independence Award, the NIH Director's New Innovator Award, Baxter Foundation Faculty Scholar Award, and the Gabilan Faculty Fellow Award.

Dr. Idoyaga's research interests have spanned dendritic cell subset tissue localization, function, and the development of dendritic cell-targeted vaccines and therapies. The current areas of research in the Idoyaga Lab include: (1) unraveling dendritic cell heterogeneity in humans and tissues; (2) dissecting the origin and functional specialization of emerging dendritic cell subsets; and (3) harnessing the endowed function of dendritic cell subsets for immunotherapies and vaccines.

ACADEMIC APPOINTMENTS

- Assistant Professor, Microbiology & Immunology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Chair, CDIII (Community, Diversity and Inclusion In Immunology) Committee, Stanford Immunology, Stanford University School of Medicine, (2020- present)

- Member, Executive Committee, Stanford Immunology, Stanford University School of Medicine, (2020- present)

HONORS AND AWARDS

- The Freidenrich BII Autoimmune Award, Translational and Clinical Innovation Award, Stanford University (2016-2017)
- NIH Director's New Innovator Award, NIH (2015-2020)
- Baxter Faculty Scholar Award, Baxter Foundation (2015)
- Gabilan Faculty Fellow, Stanford University (2014-2017)
- Pathways to Independence Award (K99/R00), NIH/NIAMS (2012-2017)
- PhD Fellowship, National Autonomous University of Mexico, Mexico. (2005-2007)
- Student Fellowship, Faculty of Sciences, University of Buenos Aires, Argentina (2002-2003)

PROFESSIONAL EDUCATION

- Postdoctoral Associate, The Rockefeller University, New York, USA , Cellular Physiology and Immunology (2012)
- Ph.D., National Autonomous University of Mexico , Immunology & Biomedical Sciences (2007)
- B.S., University of Buenos Aires, Argentina , Biology & Immunology (2004)

LINKS

- Idoyaga Lab Website: <http://idoyagalab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Idoyaga Lab is focused on the function and biology of dendritic cells, which are specialized antigen-presenting cells that initiate and modulate our body's immune responses. Considering their importance in orchestrating the quality and quantity of immune responses, dendritic cells are an indisputable target for vaccines and therapies.

Dendritic cells are not one cell type, but a network of cells comprised of many subsets or subpopulations with distinct developmental pathways and tissue localization. It is becoming apparent that each dendritic cell subset is different in its capacity to induce and modulate specific types of immune responses; however, there is still a lack of resolution and deep understanding of dendritic cell subset functional specialization. This gap in knowledge is an impediment for the rational design of immune interventions. Our research program focuses on advancing our understanding of mouse and human dendritic cell subsets, revealing their endowed capacity to induce distinct types of immune responses, and designing novel strategies to exploit them for vaccines and therapies.

Teaching

COURSES

2022-23

- Cellular and Molecular Immunology: An Introductory Course: BIO 230, IMMUNOL 200, MI 200 (Aut)

2021-22

- Cellular and Molecular Immunology: An Introductory Course: BIO 230, IMMUNOL 200, MI 200 (Aut)

2019-20

- Dendritic Cells and Other Myeloid Cells: function and analytical tools: BIOS 283 (Sum)

STANFORD ADVISEES

Med Scholar Project Advisor

David Seong

Doctoral Dissertation Reader (AC)

Jason Nideffer, Grayson Rodriguez

Postdoctoral Faculty Sponsor

Rebeca Arroyo Hornero, Fernando Bandeira Sulczewski, Derek Clements, Raul Maqueda Alfaro, Sirimuvva Tadeipalli

Doctoral Dissertation Advisor (AC)

Hayley Raquer, David Seong

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **Clonal lineage tracing reveals shared origin of conventional and plasmacytoid dendritic cells.** *Immunity*
Feng, J., Pucella, J. N., Jang, G., Alcantara-Hernandez, M., Upadhaya, S., Adams, N. M., Khodadadi-Jamayran, A., Lau, C. M., Stoeckius, M., Hao, S., Smibert, P., Tsirigos, A., Idoyaga, et al
2022
- **Alveolar macrophages and epithelial cells: The art of living together.** *The Journal of experimental medicine*
Clements, D., Idoyaga, J.
2021; 218 (10)
- **Mass cytometry profiling of human dendritic cells in blood and tissues.** *Nature protocols*
Alcantara-Hernandez, M., Idoyaga, J.
2021
- **Chromatin Landscape Underpinning Human Dendritic Cell Heterogeneity.** *Cell reports*
Leylek, R. n., Alcántara-Hernández, M. n., Granja, J. M., Chavez, M. n., Perez, K. n., Diaz, O. R., Li, R. n., Satpathy, A. T., Chang, H. Y., Idoyaga, J. n.
2020; 32 (12): 108180
- **The versatile plasmacytoid dendritic cell: Function, heterogeneity, and plasticity.** *International review of cell and molecular biology*
Leylek, R. n., Idoyaga, J. n.
2019; 349: 177–211
- **Integrated Cross-Species Analysis Identifies a Conserved Transitional Dendritic Cell Population.** *Cell reports*
Leylek, R. n., Alcántara-Hernández, M. n., Lanzar, Z. n., Lüdtke, A. n., Perez, O. A., Reizis, B. n., Idoyaga, J. n.
2019; 29 (11): 3736–50.e8
- **High-Dimensional Phenotypic Mapping of Human Dendritic Cells Reveals Interindividual Variation and Tissue Specialization.** *Immunity*
Alcántara-Hernández, M. n., Leylek, R. n., Wagar, L. E., Engleman, E. G., Keler, T. n., Marinkovich, M. P., Davis, M. M., Nolan, G. P., Idoyaga, J. n.
2017
- **CDKN1A regulates Langerhans cell survival and promotes Treg cell generation upon exposure to ionizing irradiation.** *Nature neuroscience*
Price, J. G., Idoyaga, J., Salmon, H., Hogstad, B., Bigarella, C. L., Ghaffari, S., Leboeuf, M., Merad, M.
2015; 16 (10): 1060-1068
- **Induction of innate and adaptive immunity by delivery of poly dA:dT to dendritic cells** *NATURE CHEMICAL BIOLOGY*
Barbuto, S., Idoyaga, J., Vila-Perello, M., Longhi, M. P., Breton, G., Steinman, R. M., Muir, T. W.
2013; 9 (4): 250-256

- **Specialized role of migratory dendritic cells in peripheral tolerance induction** *JOURNAL OF CLINICAL INVESTIGATION*
Idoyaga, J., Fiorese, C., Zbytniuk, L., Lubkin, A., Miller, J., Malissen, B., Mucida, D., Merad, M., Steinman, R. M.
2013; 123 (2): 844-854
- **SnapShot: Dendritic Cells** *CELL*
Idoyaga, J., Steinman, R. M.
2011; 146 (4): 660-U186
- **Comparable T helper 1 (Th1) and CD8 T-cell immunity by targeting HIV gag p24 to CD8 dendritic cells within antibodies to Langerin, DEC205, and Clec9A** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Idoyaga, J., Lubkin, A., Fiorese, C., Lahoud, M. H., Caminschi, I., Huang, Y., Rodriguez, A., Clausen, B. E., Park, C. G., Trumppheller, C., Steinman, R. M.
2011; 108 (6): 2384-2389
- **Features of the dendritic cell lineage** *IMMUNOLOGICAL REVIEWS*
Steinman, R. M., Idoyaga, J.
2010; 234: 5-17
- **Antibody to Langerin/CD207 localizes large numbers of CD8 alpha(+) dendritic cells to the marginal zone of mouse spleen** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Idoyaga, J., Suda, N., Suda, K., Park, C. G., Steinman, R. M.
2009; 106 (5): 1524-1529
- **Injectable Nanoparticle-Based Hydrogels Enable the Safe and Effective Deployment of Immunostimulatory CD40 Agonist Antibodies.** *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*
Correa, S., Meany, E. L., Gale, E. C., Klich, J. H., Saouaf, O. M., Mayer, A. T., Xiao, Z., Liong, C. S., Brown, R. A., Maikawa, C. L., Grosskopf, A. K., Mann, J. L., Idoyaga, et al
2022; e2103677
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
Jones, R. C., Karkanas, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022
- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*
Olivieri, J., Dehghanasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.
2021; 10
- **Prolonged Codelivery of Hemagglutinin and a TLR7/8 Agonist in a Supramolecular Polymer-Nanoparticle Hydrogel Enhances Potency and Breadth of Influenza Vaccination.** *ACS biomaterials science & engineering*
Roth, G. A., Saouaf, O. M., Smith, A. A., Gale, E. C., Hernandez, M. A., Idoyaga, J., Appel, E. A.
2021
- **Skin dendritic cells in melanoma are key for successful checkpoint blockade therapy.** *Journal for immunotherapy of cancer*
Prokopi, A., Tripp, C. H., Tummers, B., Hornsteiner, F., Spoeck, S., Crawford, J. C., Clements, D. R., Efremova, M., Hutter, K., Bellmann, L., Cappellano, G., Cadilha, B. L., Kobold, et al
2021; 9 (1)
- **Gastric Mucosal Immune Profiling and Dysregulation in Idiopathic Gastroparesis.** *Clinical and translational gastroenterology*
Gottfried-Blackmore, A. n., Namkoong, H. n., Adler, E. n., Martin, B. n., Gubatan, J. n., Fernandez-Becker, N. n., Clarke, J. O., Idoyaga, J. n., Nguyen, L. n., Habtezion, A. n.
2021; 12 (5): e00349

- **ImmGen at 15** *NATURE IMMUNOLOGY*
Aguilar, S., Aguilar, O., Allan, R., Amir, E., Angeli, V., Artyomov, M. N., Asinovski, N., Astarita, J., Austen, K., Bajpai, G., Barrett, N., Baysoy, A., Benoist, et al
2020; 21 (7): 700–703
- **Landscape of coordinated immune responses to H1N1 challenge in humans.** *The Journal of clinical investigation*
Rahil, Z. n., Leylek, R. n., Schürch, C. M., Chen, H. n., Bjornson-Hooper, Z. n., Christensen, S. R., Gherardini, P. F., Bhate, S. S., Spitzer, M. H., Fragiadakis, G. K., Mukherjee, N. n., Kim, N. n., Jiang, et al
2020
- **Injectable Hydrogels for Sustained Codelivery of Subunit Vaccines Enhance Humoral Immunity.** *ACS central science*
Roth, G. A., Gale, E. C., Alcántara-Hernández, M. n., Luo, W. n., Axpe, E. n., Verma, R. n., Yin, Q. n., Yu, A. C., Lopez Hernandez, H. n., Maikawa, C. L., Smith, A. A., Davis, M. M., Pulendran, et al
2020; 6 (10): 1800–1812
- **A Nanoparticle Platform for Improved Potency, Stability, and Adjuvanticity of Poly(I:C)** *ADVANCED THERAPEUTICS*
Gale, E. C., Roth, G. A., Smith, A. A., Alcantara-Hernandez, M., Idoyaga, J., Appel, E. A.
2019
- **Nursing Markedly Protects Postpartum Mice From Stroke: Associated Central and Peripheral Neuroimmune Changes and a Role for Oxytocin** *FRONTIERS IN NEUROSCIENCE*
Stary, C. M., Xu, L., Voloboueva, L. A., Alcantara-Hernandez, M., Arvola, O. J., Idoyaga, J., Giffard, R. G.
2019; 13
- **Nursing Markedly Protects Postpartum Mice From Stroke: Associated Central and Peripheral Neuroimmune Changes and a Role for Oxytocin.** *Frontiers in neuroscience*
Stary, C. M., Xu, L., Voloboueva, L. A., Alcántara-Hernández, M., Arvola, O. J., Idoyaga, J., Giffard, R. G.
2019; 13: 609
- **Opposing T cell responses in experimental autoimmune encephalomyelitis.** *Nature*
Saligrama, N. n., Zhao, F. n., Sikora, M. J., Serratelli, W. S., Fernandes, R. A., Louis, D. M., Yao, W. n., Ji, X. n., Idoyaga, J. n., Mahajan, V. B., Steinmetz, L. M., Chien, Y. H., Hauser, et al
2019
- **The Nontoxic Cholera B Subunit Is a Potent Adjuvant for Intradermal DC-Targeted Vaccination** *FRONTIERS IN IMMUNOLOGY*
Antonio-Herrera, L., Badillo-Godinez, O., Medina-Contreras, O., Tepale-Segura, A., Garcia-Lozano, A., Gutierrez-Xicotencatl, L., Soldevila, G., Esquivel-Guadarrama, F. R., Idoyaga, J., Bonifaz, L. C.
2018; 9
- **The Nontoxic Cholera B Subunit Is a Potent Adjuvant for Intradermal DC-Targeted Vaccination.** *Frontiers in immunology*
Antonio-Herrera, L., Badillo-Godinez, O., Medina-Contreras, O., Tepale-Segura, A., Garcia-Lozano, A., Gutierrez-Xicotencatl, L., Soldevila, G., Esquivel-Guadarrama, F. R., Idoyaga, J., Bonifaz, L. C.
2018; 9: 2212
- **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
- **Ebola virus infection kinetics in chimeric mice reveal a key role of T cells as barriers for virus dissemination.** *Scientific reports*
Lütke, A., Ruibal, P., Wozniak, D. M., Pallasch, E., Wurr, S., Bockholt, S., Gómez-Medina, S., Qiu, X., Kobinger, G. P., Rodríguez, E., Günther, S., Krasemann, S., Idoyaga, et al
2017; 7: 43776-?
- **Pseudogenization of the Secreted Effector Gene sseI Confers Rapid Systemic Dissemination of S. Typhimurium ST313 within Migratory Dendritic Cells.** *Cell host & microbe*
Carden, S. E., Walker, G. T., Honeycutt, J., Lugo, K., Pham, T., Jacobson, A., Bouley, D., Idoyaga, J., Tsois, R. M., Monack, D.
2017; 21 (2): 182-194
- **T-cell immunodominance.** *European journal of immunology*
Cruz, J. L., Pérez-Girón, J. V., Lütke, A., Gómez-Medina, S., Ruibal, P., Idoyaga, J., Muñoz-Fontela, C.
2017; 47 (2): 345-352

- **Monocyte-derived dendritic cells enhance protection against secondary influenza challenge by controlling the switch in CD8(+) T-cell immunodominance** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Cruz, J. L., Perez-Giron, J., Luedtke, A., Gomez-Medina, S., Ruibal, P., Idoyaga, J., Munoz-Fontela, C.
2017; 47 (2): 345-352
- **Ebola Virus Disease Is Characterized by Poor Activation and Reduced Levels of Circulating CD16+ Monocytes.** *journal of infectious diseases*
Lüdtke, A., Ruibal, P., Becker-Ziaja, B., Rottstegge, M., Wozniak, D. M., Cabeza-Cabrerizo, M., Thorenz, A., Weller, R., Kerber, R., Idoyaga, J., Magassouba, N., Gabriel, M., Günther, et al
2016; 214: S275-S280
- **Expansion and Activation of CD103(+) Dendritic Cell Progenitors at the Tumor Site Enhances Tumor Responses to Therapeutic PD-L1 and BRAF Inhibition** *IMMUNITY*
Salmon, H., Idoyaga, J., Rahman, A., Leboeuf, M., Remark, R., Jordan, S., Casanova-Acebes, M., Khudoynazarova, M., Agudo, J., Tung, N., Chakarov, S., Rivera, C., Hogstad, et al
2016; 44 (4): 924-938
- **Reply to: "Subverting misconceptions about radiation therapy".** *Nature immunology*
Price, J. G., Idoyaga, J., Merad, M.
2016; 17 (4): 345-346
- **ESAT-6 Targeting to DEC205+ Antigen Presenting Cells Induces Specific-T Cell Responses against ESAT-6 and Reduces Pulmonary Infection with Virulent Mycobacterium tuberculosis.** *PLoS one*
Silva-Sánchez, A., Meza-Pérez, S., Flores-Langarica, A., Donis-Maturano, L., Estrada-García, I., Calderón-Amador, J., Hernández-Pando, R., Idoyaga, J., Steinman, R. M., Flores-Romo, L.
2015; 10 (4)
- **Activation of Toll-like Receptor-2 by Endogenous Matrix Metalloproteinase-2 Modulates Dendritic-Cell-Mediated Inflammatory Responses** *CELL REPORTS*
Godefroy, E., Gallois, A., Idoyaga, J., Merad, M., Tung, N., Monu, N., Saenger, Y., Fu, Y., Ravindran, R., Pulendran, B., Jotereau, F., Trombetta, S., Bhardwaj, et al
2014; 9 (5): 1856-1870
- **Murine Langerin(+) dermal dendritic cells prime CD8(+) T cells while Langerhans cells induce cross-tolerance** *EMBO MOLECULAR MEDICINE*
Flacher, V., Tripp, C. H., Mairhofer, D. G., Steinman, R. M., Stoitzner, P., Idoyaga, J., Romani, N.
2014; 6 (9): 1191-1204
- **BRAF-V600E expression in precursor versus differentiated dendritic cells defines clinically distinct LCH risk groups** *JOURNAL OF EXPERIMENTAL MEDICINE*
Berres, M., Lim, K. P., Peters, T., Price, J., Takizawa, H., Salmon, H., Idoyaga, J., Ruzo, A., Lupo, P. J., Hicks, M. J., Shih, A., Simko, S. J., Abhyankar, et al
2014; 211 (4): 669-683
- **Targeting Leishmania major Antigens to Dendritic Cells In Vivo Induces Protective Immunity.** *PLoS one*
Matos, I., Mizenina, O., Lubkin, A., Steinman, R. M., Idoyaga, J.
2013; 8 (6): e67453
- **Streamlined Expressed Protein Ligation Using Split Inteins** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Vila-Perello, M., Liu, Z., Shah, N. H., Willis, J. A., Idoyaga, J., Muir, T. W.
2013; 135 (1): 286-292
- **Consortium biology in immunology: the perspective from the Immunological Genome Project** *NATURE REVIEWS IMMUNOLOGY*
Benoist, C., Lanier, L., Merad, M., Mathis, D.
2012; 12 (10): 734-740
- **Zinc finger transcription factor zDC is a negative regulator required to prevent activation of classical dendritic cells in the steady state** *JOURNAL OF EXPERIMENTAL MEDICINE*
Meredith, M. M., Liu, K., Kamphorst, A. O., Idoyaga, J., Yamane, A., Guermonprez, P., Rihn, S., Yao, K., Silva, I. T., Oliveira, T. Y., Skokos, D., Casellas, R., Nussenzweig, et al
2012; 209 (9): 1583-1593
- **Expression of the zinc finger transcription factor zDC (Zbtb46, Btbd4) defines the classical dendritic cell lineage** *JOURNAL OF EXPERIMENTAL MEDICINE*

- Meredith, M. M., Liu, K., Darrasse-Jeze, G., Kamphorst, A. O., Schreiber, H. A., Guermonprez, P., Idoyaga, J., Cheong, C., Yao, K., Niec, R. E., Nussenzweig, M. C.
2012; 209 (6): 1153-1165
- **Dll4-Notch signaling in Flt3-independent dendritic cell development and autoimmunity in mice** *JOURNAL OF EXPERIMENTAL MEDICINE*
Billiard, F., Lobry, C., Darrasse-Jeze, G., Waite, J., Liu, X., Mouquet, H., Danave, A., Tait, M., Idoyaga, J., Leboeuf, M., Kyratsous, C. A., Burton, J., Kalter, et al
2012; 209 (5): 1011-1028
 - **Skin Langerin(+) Dendritic Cells Transport Intradermally Injected Anti-DEC-205 Antibodies but Are Not Essential for Subsequent Cytotoxic CD8(+) T Cell Responses** *JOURNAL OF IMMUNOLOGY*
Flacher, V., Tripp, C. H., Haid, B., Kissenfennig, A., Malissen, B., Stoitzner, P., Idoyaga, J., Romani, N.
2012; 188 (5): 2146-2155
 - **Dendritic cell-targeted protein vaccines: a novel approach to induce T-cell immunity** *JOURNAL OF INTERNAL MEDICINE*
Trumpfheller, C., Longhi, M. P., Caskey, M., Idoyaga, J., Bozzacco, L., Keler, T., Schlesinger, S. J., Steinman, R. M.
2012; 271 (2): 183-192
 - **Trem14, an Ig Superfamily Member, Mediates Presentation of Several Antigens to T Cells In Vivo, Including Protective Immunity to HER2 Protein** *JOURNAL OF IMMUNOLOGY*
Hemmi, H., Zaidi, N., Wang, B., Matos, I., Fiorese, C., Lubkin, A., Zbytnuik, L., Suda, K., Zhang, K., Noda, M., Kaisho, T., Steinman, R. M., Idoyaga, et al
2012; 188 (3): 1147-1155
 - **Microbial Stimulation Fully Differentiates Monocytes to DC-SIGN/CD209(+) Dendritic Cells for Immune T Cell Areas** *CELL*
Cheong, C., Matos, I., Choi, J., Dandamudi, D. B., Shrestha, E., Longhi, M. P., Jeffrey, K. L., Anthony, R. M., Kluger, C., Nchinda, G., Koh, H., Rodriguez, A., Idoyaga, et al
2010; 143 (3): 416-429
 - **Targeting of antigens to skin dendritic cells: possibilities to enhance vaccine efficacy** *IMMUNOLOGY AND CELL BIOLOGY*
Romani, N., Thurnher, M., Idoyaga, J., Steinman, R. M., Flacher, V.
2010; 88 (4): 424-430
 - **Epidermal Langerhans Cells Rapidly Capture and Present Antigens from C-Type Lectin-Targeting Antibodies Deposited in the Dermis** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Flacher, V., Tripp, C. H., Stoitzner, P., Haid, B., Ebner, S., Del Frari, B., Koch, F., Park, C. G., Steinman, R. M., Idoyaga, J., Romani, N.
2010; 130 (3): 755-762
 - **Acute in vivo exposure to interferon-gamma enables resident brain dendritic cells to become effective antigen presenting cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Gottfried-Blackmore, A., Kaunzner, U. W., Idoyaga, J., Felger, J. C., McEwen, B. S., Bulloch, K.
2009; 106 (49): 20918-20923
 - **Dendritic cells require a systemic type I interferon response to mature and induce CD4(+) Th1 immunity with poly IC as adjuvant** *JOURNAL OF EXPERIMENTAL MEDICINE*
Longhi, M. P., Trumpfheller, C., Idoyaga, J., Caskey, M., Matos, I., Kluger, C., Salazar, A. M., Colonna, M., Steinman, R. M.
2009; 206 (7): 1589-1602
 - **A New Triggering Receptor Expressed on Myeloid Cells (Trem) Family Member, Trem-Like 4, Binds to Dead Cells and Is a DNAX Activation Protein 12-Linked Marker for Subsets of Mouse Macrophages and Dendritic Cells** *JOURNAL OF IMMUNOLOGY*
Hemmi, H., Idoyaga, J., Suda, K., Suda, N., Kennedy, K., Noda, M., Aderem, A., Steinman, R. M.
2009; 182 (3): 1278-1286
 - **Cutting edge: Langerin/CD207 receptor on dendritic cells mediates efficient antigen presentation on MHC I and II products in vivo** *JOURNAL OF IMMUNOLOGY*
Idoyaga, J., Cheong, C., Suda, K., Suda, N., Kim, J. Y., Lee, H., Park, C. G.
2008; 180 (6): 3647-3650
 - **Generation and application of new rat monoclonal antibodies against synthetic FLAG and OLLAS tags for improved immunodetection** *JOURNAL OF IMMUNOLOGICAL METHODS*
Park, S. H., Cheong, C., Idoyaga, J., Kim, J. Y., Choi, J., Do, Y., Lee, H., Jo, J. H., Oh, Y., Im, W., Steinman, R. M., Park, C. G.
2008; 331 (1-2): 27-38

- **Tumor cells prevent mouse dendritic cell maturation induced by TLR ligands** *CANCER IMMUNOLOGY IMMUNOTHERAPY*
Idoyaga, J., Moreno, J., Bonifaz, L.
2007; 56 (8): 1237-1250
- **Production of monoclonal antibodies that recognize the extracellular domain of mouse Langerin/CD207** *JOURNAL OF IMMUNOLOGICAL METHODS*
Cheong, C., Idoyaga, J., Do, Y., Pack, M., Park, S. H., Lee, H., Kang, Y., Choi, J., Kim, J. Y., Bonito, A., Inaba, K., Yamazaki, S., Steinman, et al
2007; 324 (1-2): 48-62
- **Innate NKT lymphocytes confer superior adaptive immunity via tumor-capturing dendritic cells** *JOURNAL OF EXPERIMENTAL MEDICINE*
Liu, K., Idoyaga, J., Charalambous, A., Fujii, S., Bonito, A., Mordoh, J., Wainstok, R., Bai, X. F., Liu, Y., Steinman, R. M.
2005; 202 (11): 1507-1516
- **Dendritic cells charged with apoptotic tumor cells induce long-lived protective CD4(+) and CD8(+) T cell immunity against B16 melanoma** *JOURNAL OF IMMUNOLOGY*
Goldszmid, R. S., Idoyaga, J., Bravo, A. I., Steinman, R., Mordoh, J., Wainstok, R.
2003; 171 (11): 5940-5947