

UBICACIÓN / LOCATION

Servicios de Anatomía Patológica y Dermatología. Hospital Clínico Universitario de Salamanca

NOMBRE DEL LABORATORIO / RESEARCH GROUP NAME

Dermatopatología tumoral e inflamatoria

BREVE DESCRIPCIÓN DE LA LÍNEA DE INVESTIGACIÓN / RESEARCH LINE

El Laboratorio de Dermatopatología Tumoral e inflamatoria, perteneciente también al Instituto de Investigación Sanitaria de Salamanca (IBSAL) (Área de enfermedades infecciosas, inflamatorias y metabólicas) es un grupo multidisciplinar constituido por patólogos y dermatólogos. Sus líneas de investigación fundamentales son carcinoma escamoso cutáneo, melanoma (biomarcadores e inmunoterapia), enfermedad injerto contra huésped cutánea, alopecias y patología inflamatoria e infecciosa cutánea.

The Laboratory of Tumor and Inflammatory Dermatopathology, also belonging to the Salamanca Health Research Institute (IBSAL) (area of infectious, inflammatory and metabolic diseases) is a multidisciplinary group made up of pathologists and dermatologists. The main lines of research are cutaneous squamous cell carcinoma, melanoma and immunotherapy, cutaneous graft versus host disease, alopecia and inflammatory cutaneous pathology.

INVESTIGADOR RESPONSABLE O PRINCIPAL DEL GRUPO / GROUP TEAM LEADER

.Dr. Angel Santos-Briz Terrón Profesor asociado. Facultativo Especialista de Área. Servicio de Anatomía Patológica. Complejo asistencial Univeristario de Salamanca.

PERSONAL ADSCRITO / GROUP MEMBERS

- Dra. María Dolores Ludeña de la Cruz. Catedrática de Anatomía Patológica. Jefa de Servicio de Anatomía Patológica. Complejo Asistencial Hospitalario de Salamanca.
- Dra. Concepción Román Curto. Profesor asociado. Jefa de Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.

- Dr. Javier Cañueto Álvarez. Profesor asociado. Facultativo especialista de área. Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.
- Dra. Manuela Yuste Chaves. Profesor asociado. Facultativo especialista de área. Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.
- Dra. Marta González de Arriba. Facultativo especialista de área. Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.
- Dra. Susana Blanco Barrios. Profesor asociado. Facultativo especialista de área. Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.
- Dra. Virginia Velasco Tirado. Facultativo especialista de área. Servicio de Dermatología. Complejo Asistencial Hospitalario de Salamanca.

PROYECTOS VIGENTES / *ON-GOING RESEARCH PROJECTS*

Nueva aproximación a la definición del pronóstico del carcinoma epidermoide cutáneo. Identificación y validación de nuevos marcadores. Código/referencia del Proyecto: PI18/00587 Entidad financiadora: ISCIII cofinanciado con fondos FEDER. Proyecto FIS. Vigencia: 2019-2021

PUBLICACIONES REPRESENTATIVAS / *REPRESENTATIVE PUBLICATION*

Por orden cronológico (más recientes primero, (actualizado 04/02/2021))

- 1: Tejera-Vaquerizo A, Fernández-Figueras MT, Santos-Briz Á, Ríos-Martín JJ, Monteagudo C, Fernández-Flores Á, Requena C, Traves V, Descalzo-Gallego MÁ, Rodríguez-Peralto JL. Protocolo de diagnóstico histológico para muestras de pacientes con melanoma cutáneo. Documento de consenso de la SEAP y la AEDV para el Registro Nacional de Melanoma [Protocol for the histologic diagnosis of cutaneous melanoma: consensus statement of the Spanish Society of Pathology and the Spanish Academy of Dermatology and Venereology (AEDV) for the National Cutaneous Melanoma Registry]. Rev Esp Patol. 2021 Jan-Mar;54(1):29-40. Spanish. doi: 10.1016/j.patol.2020.10.004. Epub 2020 Dec 13. PMID: 33455691.
- 2: Garrido Ruiz MC, Santos-Briz Á, Santos-Briz Á, Sánchez A, Alonso-Riaño M, Burgos J, Medina-Migueláñez M, Puebla L, Román-Curto C, Roncero-Riesco M, Garcia R, Ortiz PL, Rodríguez-Peralto JL. Spectrum of Clinicopathologic Findings in COVID-19-induced Skin Lesions: Demonstration of Direct Viral Infection of the Endothelial Cells. Am J Surg Pathol. 2021 Jan 4; Publish Ahead of Print. doi: 10.1097/PAS.0000000000001634. Epub ahead of print. PMID: 33399338.
- 3: Santos-Briz A, Cañueto J, Carmen SD, Barrios B, Yuste M, Bellido L, Ludeña MD, Román C. Value of PD-L1, PD-1, and CTLA-4 Expression in the Clinical Practice as Predictors of Response to Nivolumab and Ipilimumab in Monotherapy in Patients With Advanced Stage Melanoma. Am J Dermatopathol. 2020 Dec 29; Publish Ahead of Print. doi: 10.1097/DAD.0000000000001856. Epub ahead of print. PMID: 33395045.
- 4: Tostón NS, Migueláñez MM, Tornero LP, Martínez SDC, Santos-Briz A, Curto CR. Reticular telangiectatic erythema by breast implants. JPRAS Open. 2020 Nov 4;27:7-11.

doi: 10.1016/j.jprra.2020.10.006. PMID: 33294578; PMCID: PMC7695883.

5: Beato Merino MJ, Diago A, Fernandez-Flores A, Fraga J, García Herrera A, Garrido M, Idoate Gastearena MA, Llamas-Velasco M, Monteagudo C, Onrubia J, Pérez-González YC, Pérez Muñoz N, Ríos-Martín JJ, Ríos-Viñuela E, Rodríguez Peralto JL, Rozas Muñoz E, Sanmartín O, Santonja C, Santos-Briz A, Saus C, Suárez Peñaranda JM, Velasco Benito V. Clinical and Histopathologic Characteristics of the Main Causes of Vascular Occlusion - Part II: Coagulation Disorders, Emboli, and Other. *Actas Dermosifiliogr.* 2020 Oct 16:S0001-7310(20)30421-X. English, Spanish. doi: 10.1016/j.ad.2020.10.004. Epub ahead of print. PMID: 33075291.

6: Conde-Ferreirós A, Velasco-Tirado V, Santos-Briz Á, Yuste-Chaves M. Verrucous Spitz Nevus on the Right Wrist. *Actas Dermosifiliogr.* 2020 Oct11:S0001-7310(20)30380-X. English, Spanish. doi: 10.1016/j.ad.2019.02.033. Epub ahead of print. PMID: 33053368.

7: Beato Merino MJ, Diago A, Fernández-Flores Á, Fraga J, García Herrera A, Garrido M, Idoate Gastearena MÁ, Llamas-Velasco M, Monteagudo C, Onrubia J, Pérez-González YC, Pérez Muñoz N, Ríos-Martín JJ, Ríos-Viñuela E, Rodríguez Peralto JL, Rozas Muñoz E, Sanmartín O, Santonja C, Santos-Briz Á, Saus C, Suárez Peñaranda JM, Velasco Benito V. Clinical and Histopathologic Characteristics of the Main Causes of Vascular Occlusion - Part I: Thrombi. *Actas Dermosifiliogr.* 2021 Jan;112(1):1-13. English, Spanish. doi: 10.1016/j.ad.2020.09.006. Epub 2020 Oct 9. PMID: 33045208; PMCID: PMC7546665.

8: Tejera-Vaquero A, Fernández-Figueras MT, Santos-Briz A, Ríos-Martín JJ, Monteagudo C, Fernández-Flores A, Requena C, Traves V, Descalzo-Gallego MA, Rodríguez-Peralto JL. Protocol for the Histologic Diagnosis of Cutaneous Melanoma: Consensus Statement of the Spanish Society of Pathology and the Spanish Academy of Dermatology and Venereology (AEDV) for the National Cutaneous Melanoma Registry. *Actas Dermosifiliogr.* 2021 Jan;112(1):32-43. English, Spanish. doi: 10.1016/j.ad.2020.09.002. Epub 2020 Oct 7. PMID: 33038295; PMCID:PMC7540207.

9: Calderón-Castrat X, Conde-Ferreirós A, Yuste-Chaves M, Santos-Briz A. The Red flag: Meyerson Phenomenon in Malignant Melanoma. *Actas Dermosifiliogr.* 2020 Sep 16:S0001-7310(20)30317-3. English, Spanish. doi: 10.1016/j.ad.2019.04.015. Epub ahead of print. PMID: 32949488.

10: Conde-Ferreirós A, Corchete LA, Jaka A, Santos-Briz Á, Fuente MJ, Posada R, Pons L, Podlipnik S, Pujol RM, Román-Curto C, Toll A, Cañueto J. PATTERNS OF INCIDENTAL PERINEURAL INVASION AND PROGNOSIS IN CUTANEOUS SQUAMOUS CELL CARCINOMA: A MULTICENTER, RETROSPECTIVE COHORT STUDY. *J Am Acad Dermatol.* 2020 Aug 8:S0190-9622(20)32374-4. doi: 10.1016/j.jaad.2020.08.017. Epub ahead print. PMID: 32781186.

11: Garcia Castro R, Viñolas-Cuadros A, Moyano-Bueno D, Conde-Ferreiros A, Cardeñoso E, Santos-Briz A. Pseudolymphomatous Atypical Fibroxanthoma. *Am J Dermatopathol.* 2020 Dec;42(12):972-976. doi: 10.1097/DAD.0000000000001761. PMID: 32769551.

12: Santos-Briz A, Medina-Miguelañez M, Moyano-Bueno D, ViñolasCuadros A, Martínez TG, Izquierdo MM, García-Sánchez MS. Indeterminate Dendritic Cell Tumor as Cutaneous Involvement of Chronic Myelomonocytic Leukemia Successfully Treated With Phototherapy. *Am J Dermatopathol.* 2020 Nov;42(11):876-880. doi: 10.1097/DAD.0000000000001703. PMID: 32568837.

13: Santos-Briz A, García-Gavín J, Pastushenko I, Sayagués JM, Rodríguez-Peralto JL, Requena L. Perineural Invasion as a Clue to Malignant Behavior in a Dermatofibroma. *Am J Dermatopathol.* 2020 Jul;42(7):533-538. doi:10.1097/DAD.0000000000001570. PMID: 31725481.

14: Conde-Ferreirós A, Roncero-Riesco M, Cañueto J, Román-Curto C, Santos-Briz Á. Cutaneous collagenous vasculopathy: papular form. *Dermatol Online J.* 2019 Aug 15;25(8):13030/qt4v5650m8. PMID: 31553863.

- 15: Beteta-Gorriti V, de Dios-Velázquez Á, Yuste M, Santos-Briz Á, Román-Curto C, Cañueto J. Familial papular epidermal nevus with "skyline" basal cell layer. *Pediatr Dermatol*. 2018 May;35(3):e191-e192. doi: 10.1111/pde.13449. Epub 2018 Mar 25. PMID: 29575181.
- 16: Gamé D, López L, Román C, Santos-Briz Á. Xanthomatous Cells in Cutaneous Graft-Versus-Host Disease Biopsies: A Clue for the Diagnosis of Hepatic Graft- Versus-Host Disease. *Am J Dermatopathol*. 2018 Oct;40(10):754-757. doi: 10.1097/DAD.0000000000001132. PMID: 29570132.
- 17: Santos-Briz A, Calle A, Linos K, Semans B, Carlson A, Sangüeza OP, Metze D, Cerroni L, Díaz-Recuero JL, Alegría-Landa V, Mascaró JM, Moreno C, Rodríguez- Peralto JL, Requena L. Dermatomyositis panniculitis: a clinicopathological and immunohistochemical study of 18 cases. *J Eur Acad Dermatol Venereol*. 2018 Aug;32(8):1352-1359. doi: 10.1111/jdv.14932. Epub 2018 Mar 27. PMID: 29524269.
- 18: Calderón-Castrat X, Cañueto J, Román-Curto C, Santos-Briz Á, Fernández-López E. Reticular telangiectatic erythema associated with implantable automatic cardioverter defibrillator. *Indian J Dermatol Venereol Leprol*. 2018 May- Jun;84(3):334-336. doi: 10.4103/ijdv.IJDVL_933_16. PMID: 29451140.
- 19: Calderón-Castrat X, Román-Curto C, Santos-Briz A, Fernández-López E. Microcystic adnexal carcinoma mimicking basal cell carcinoma. *JAAD Case Rep*. 2017 Oct 9;3(6):492-494. doi: 10.1016/j.jdc.2017.07.010. PMID: 29034297; PMCID: PMC5635954.
- 20: Santos-Briz A, Román C, Corral R, de Dios A, Vázquez L, Ludeña MD. Cutaneous Indeterminate Cell Histiocytosis of Donor Origin After Allogeneic Hematopoietic Stem-Cell Transplantation. *Am J Dermatopathol*. 2017 Sep;39(9):696-699. doi: 10.1097/DAD.0000000000000935. PMID: 28825606.
- 21: Godoy-Gijón E, Yuste-Chaves M, Santos-Briz Á. BRAF Mutation Status Concordance Between Primary Cutaneous Melanomas and Corresponding Metastases: A Review of the Latest Evidence. *Actas Dermosifiliogr*. 2017 Dec;108(10):894-901. English, Spanish. doi: 10.1016/j.ad.2016.12.025. Epub 2017 Jul 12. PMID: 28711165.
- 22: Allemant Ortiz LJ, Calderón-Castrat X, Orellana Cortez A, Ingar Carbone B, Santos-Briz A. Congenital Atrophic Plaque: Fibroblastic Connective Tissue Nevus. *Pediatr Dermatol*. 2017 Jul;34(4):e216-e218. doi: 10.1111/pde.13155. Epub 2017 May 23. PMID: 28543313.
- 23: Calderón-Castrat X, Román-Curto C, Santos-Briz A, Fernández-López E, Fraile Alonso MDC. Spontaneous Regression of a Plaque-Type Striated Muscle Hamartoma. *Pediatr Dermatol*. 2017 Jul;34(4):e223-e224. doi: 10.1111/pde.13173. Epub 2017 May 10. PMID: 28488284.
- 24: Manrique-Silva E, Gonzalez-Velasco C, Fernández-López E, Yuste M, Santos- Briz Á. Kongenitales polypoides kutanes adnexales und mesenchymales Hamartom: Eine unterdiagnostizierte Entität - Bericht über zwei Fälle. *J Dtsch Dermatol Ges*. 2017 May;15(5):570-573. doi: 10.1111/ddg.13229_g. PMID: 28485863.
- 25: Manrique-Silva E, Gonzalez-Velasco C, Fernández-López E, Yuste M, Santos- Briz Á. Congenital polypoid cutaneous adnexal and mesenchymal hamartoma: an underdiagnosed entity - Report of two cases. *J Dtsch Dermatol Ges*. 2017 May;15(5):570-572. doi: 10.1111/ddg.13229. Epub 2017 Apr 21. PMID: 28430403.
- 26: Calderón-Castrat X, Yuste-Chaves M, Hernández A, Santos-Briz A, Fernández- López E. Degos disease, not just a scar: lethal outcome in spite of immunomodulatory therapy. *J Eur Acad Dermatol Venereol*. 2017 Oct;31(10):e435-e438. doi: 10.1111/jdv.14245. Epub 2017 May 4. PMID: 28370442.
- 27: Riveiro-Falkenbach E, Santos-Briz A, Ríos-Martín JJ, Rodríguez-Peralto JL. Controversies in Inpatient Melanoma BRAFV600E Mutation Status. *Am J Dermatopathol*. 2017 Apr;39(4):291-295. doi: 10.1097/DAD.0000000000000710. PMID:

28323782.

28: Alegría-Landa V, Rodríguez-Pinilla SM, Santos-Briz A, Rodríguez-Peralto JL, Alegre V, Cerroni L, Kutzner H, Requena L. Clinicopathologic, Immunohistochemical, and Molecular Features of Histiocytoid Sweet Syndrome. *JAMA Dermatol.* 2017 Jul 1;153(7):651-659. doi: 10.1001/jamadermatol.2016.6092. PMID: 28296991; PMCID: PMC5543327.

29: Santonja C, Santos-Briz A, Palmedo G, Kutzner H, Requena L. Detection of human parvovirus B19 DNA in 22% of 1815 cutaneous biopsies of a wide variety of dermatological conditions suggests viral persistence after primary infection and casts doubts on its pathogenic significance. *Br J Dermatol.* 2017 Oct;177(4):1060-1065. doi: 10.1111/bjd.15382. Epub 2017 Sep 7. PMID: 28196283.

30: Calderón-Castrat X, Roncero-Riesco M, Alonso-San Pablo MT, Santos-Briz Á, Fernández-López E. Cutaneous Involvement in Adult Multisystemic Langerhans Cell Histiocytosis Successfully Treated With Pulsed Dye Laser. *Dermatol Surg.* 2017 May;43(5):757-761. doi: 10.1097/DSS.0000000000000976. PMID: 28166093.

31: González-Calle V, Jorge-Finnigan C, Santos-Durán JC, López-Cadenas F, Ocio EM, García-Sanz R, Santos-Briz Á, Fernández-López E, San Miguel J, Mateos MV, Román-Curto C. Multiple primary cutaneous plasmacytoma a decade after a nasal solitary extramedullary plasmacytoma: a puzzling case. *Clin Case Rep.* 2016 Oct 11;4(12):1096-1100. doi: 10.1002/ccr3.706. PMID: 27980740; PMCID: PMC5134131.

32: Cañueto J, Cardeñoso-Álvarez E, Cosano-Quero A, Santos-Briz Á, Fernández-López E, Pérez-Losada J, Román-Curto C. The expression of podoplanin is associated with poor outcome in cutaneous squamous cell carcinoma. *J Cutan Pathol.* 2017 Feb;44(2):144-151. doi: 10.1111/cup.12859. Epub 2016 Dec 15. PMID: 27859466.

33: Andrés-Ramos I, Siller-Ruiz M, Santos-Briz Á, Román-Curto C. Pápula supraciliar derecha única en paciente con leucemia linfática crónica: importancia del diagnóstico precoz [Solitary papule above the right eyebrow in patient with chronic lymphocytic leukemia: Importance of early diagnosis]. *Enferm Infecc Microbiol Clin.* 2016 Nov;34(9):608-610. Spanish. doi: 10.1016/j.eimc.2016.01.005. Epub 2016 Feb 18. PMID: 26900001.

34: Herrero-Sánchez MC, Rodríguez-Serrano C, Almeida J, San Segundo L, Inogés S, Santos-Briz Á, García-Briñón J, Corchete LA, San Miguel JF, Del Cañizo C, Blanco B. Targeting of PI3K/AKT/mTOR pathway to inhibit T cell activation and prevent graft-versus-host disease development. *J Hematol Oncol.* 2016 Oct 20;9(1):113. doi: 10.1186/s13045-016-0343-5. PMID: 27765055; PMCID: PMC5072323.

35: Llamas-Velasco M, Alegría V, Santos-Briz Á, Cerroni L, Kutzner H, Requena L. Occlusive Nonvasculitic Vasculopathy. *Am J Dermatopathol.* 2017 Sep;39(9):637-662. doi: 10.1097/DAD.0000000000000766. PMID: 27759698.

36: Pérez-Pérez L, García-Gavín J, Wortsman X, Santos-Briz Á. Delayed Adverse Subcutaneous Reaction to a New Family of Hyaluronic Acid Dermal Fillers With Clinical, Ultrasound, and Histologic Correlation. *Dermatol Surg.* 2017 Apr;43(4):605-608. doi: 10.1097/DSS.0000000000000945. PMID: 27748693.

37: Cañueto J, Cardeñoso E, García JL, Santos-Briz Á, Castellanos-Martín A, Fernández-López E, Blanco Gómez A, Pérez-Losada J, Román-Curto C. Epidermal growth factor receptor expression is associated with poor outcome in cutaneous squamous cell carcinoma. *Br J Dermatol.* 2017 May;176(5):1279-1287. doi: 10.1111/bjd.14936. Epub 2017 Mar 27. PMID: 27510450.

38: Herrero-Sánchez MC, Rodríguez-Serrano C, Almeida J, San-Segundo L, Inogés S, Santos-Briz Á, García-Briñón J, SanMiguel JF, Del Cañizo C, Blanco B. Effect of mTORC1/mTORC2 inhibition on T cell function: potential role in graft-versus-host disease control. *Br J Haematol.* 2016 Jun;173(5):754-68. doi: 10.1111/bjh.13984. Epub 2016 Feb 23. PMID: 26914848.

- 39: Castellanos-González M, Santos-Briz A. Granuloma fissuratum: entidad desconocida pero fácilmente identificable [Granuloma fissuratum: A little known, but easily identifiable, entity]. *Semergen*. 2016 Sep;42(6):426-7. Spanish. doi: 10.1016/j.semerg.2015.09.012. Epub 2015 Nov 28. PMID: 26643395.
- 40: Palacios-Álvarez I, Roman-Curto C, García-Sancho AM, Santos-Briz Á, Santos-Durán JC, Fernández-López E. Cutaneous annular lesions as the first sign of transformation of follicular lymphoma into diffuse large B-cell lymphoma. *Indian J Dermatol Venereol Leprol*. 2015 Sep-Oct;81(5):495-7. doi: 10.4103/0378-6323.158660. PMID: 26087101.
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- 44: Andrés-Ramos I, Blanco-Barrios S, Fernández-López E, Santos-Briz Á. Exenatide-Induced Eosinophil-Rich Granulomatous Panniculitis: A Novel Case Showing Injected Microspheres. *Am J Dermatopathol*. 2015 Oct;37(10):801-2. doi: 10.1097/DAD.0000000000000243. PMID: 25545186.
- 45: González-González M, Garcia J, Alcazar JA, Gutiérrez ML, González LM, Bengoechea O, Abad MM, Santos-Briz A, Blanco O, Martín M, Rodríguez A, Fuentes M, Muñoz-Bellvis L, Orfao A, Sayagues JM. Association between the cytogenetic profile of tumor cells and response to preoperative radiochemotherapy in locally advanced rectal cancer. *Medicine (Baltimore)*. 2014 Nov;93(26):e153. doi: 10.1097/MD.0000000000000153. PMID: 25474426; PMCID: PMC4616389.
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- 50: Fraile Aonso Mdel C, Román Curto C, Cañueto J, Meseguer C, Santos-Briz Á, Fernández E. Striated muscle hamartoma in a newborn. *Pediatr Dermatol*. 2014 Jul-Aug;31(4):e110-1. doi: 10.1111/pde.12324. Epub 2014 Jun 4. PMID: 24894518.
- 51: González-González M, Fontanillo C, Abad MM, Gutiérrez ML, Mota I, Bengoechea O, Santos-Briz Á, Blanco O, Fonseca E, Ciudad J, Fuentes M, De Las Rivas J, Alcazar JA, García J, Muñoz-Bellvis L, Orfao A, Sayagués JM. Identification of a characteristic copy

number alteration profile by high-resolution single nucleotide polymorphism arrays associated with metastatic sporadic colorectal cancer. *Cancer*. 2014 Jul 1;120(13):1948-59. doi: 10.1002/cncr.28681. Epub 2014 Mar 25. PMID: 24668684.

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