

Uma N. Sundram, M.D., Ph.D.

Professor, Department of Pathology and Laboratory Medicine
Oakland University William Beaumont School of Medicine

System Medical Director Dermatopathology
Corewell Health System East
Office: (248) 898-9060

ADDRESS

Corewell Health Willam Beaumont University Hospital (East)
Research Institute, 3rd Floor
3811 West Thirteen Mile Road
Royal Oak, MI 48073

EDUCATION AND TRAINING

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|-----------------|--|
| 7/2002 – 6/2003 | Fellow, Dermatopathology Stanford Hospital & Clinics, Stanford, CA |
| 7/2001 – 6/2002 | Fellow, Surgical Pathology Stanford Hospital & Clinics, Stanford, CA |
| 7/2000 – 6/2001 | Residency, Anatomic Pathology Stanford Hospital & Clinics, Stanford, CA |
| 7/1999 – 6/2000 | Intern, Anatomic Pathology Stanford Hospital & Clinics, Stanford, CA |
| 9/1991 – 6/1999 | Doctorate of Philosophy, Ph.D., Biophysics Stanford University School of Medicine, Stanford, CA |
| 9/1991 – 6/1999 | Doctor of Medicine, M.D. Stanford University School of Medicine, Stanford, CA |
| 9/1987 – 8/1991 | Bachelor of Science, B.S., Chemistry Wayne State University, Detroit, MI |

PROFESSIONAL MEMBERSHIPS

Fellow, American Society of Dermatopathology (ASDP)
American Medical Association (AMA)
United States Cutaneous Lymphoma Consortium (USCLC)
International Society for Cutaneous Lymphoma (ISCL)
Fellow, American Society of Dermatopathology (ASD)
Fellow, College of American Pathologists (CAP)
International Society of Dermatopathology (ISD)
Melanoma Study Group (California)
South Bay Pathology Society
United States and Canadian Academy of Pathology (USCAP)

PROFESSIONAL, ACADEMIC, ADMINISTRATIVE, CLINICAL, MILITARY POSITIONS

Academic Positions

- 2/2016 – present Professor, Department of Pathology
Oakland University William Beaumont School of Medicine, Rochester, MI
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 5/2004 – 3/2015 Assistant Professor, Medical Center Line, Departments of Pathology &
Dermatology, Stanford University School of Medicine, Stanford, CA
- 7/2003 – 4/2004 Clinical Assistant Professor, Medical Center Line, Department of Pathology
Stanford University School of Medicine, Stanford, CA

Non-Credit, CME and Invited Lectures

- 5/2004 Invited Faculty Speaker for the 6th Annual Current Issues in Anatomic Pathology:
2004 – Dermal Fibrous Histiocytomas and Their Distinction from
dermatofibrosarcoma Protuberans (San Francisco, CA).
- 5/2005 Invited Faculty Speaker for the Melanoma Study Group Annual Meeting:
2005 – Desmoplastic Melanoma: Clues to Diagnosis (Carmel, CA).
- 2/2006 Invited Faculty Speaker for the 95th Annual Meeting of the United States and Canadian
Academy of Pathology, American Society of Dermatopathology
Companion Meeting: 2006 – What is Lymphomatoid Papulosis: Lymphoid
Hyperplasia or Lymphoma? (presented jointly with Dr. Sabine Kohler) (Atlanta, GA).
- 6/2006 Invited Faculty Speaker for the 8th Annual Current Issues in Anatomic Pathology: 2006
– Desmoplastic Melanoma (San Francisco, CA).
- 7/2006 Invited Faculty Speaker for the Summer Meeting of the American Academy of
Dermatology (Academy '06): 2006 – Cutaneous T-cell Lymphoma (San Diego, CA).
- 10/2008 Invited Faculty Speaker for the 45th Annual Meeting of the American Society of
Dermatopathology: 2008 – Cutaneous T-cell Lymphoma: Important Diagnostic Tools
(San Francisco, CA).
- 3/2009 Invited Faculty Speaker for the 12th Joint Meeting of the International Society of
Dermatopathology: 2009 – Cutaneous Lymphoid Infiltrates: Lessons from Our
Patients (San Francisco, CA).
- 3/2009 Invited Faculty Speaker for the 67th Annual Meeting of the American Academy of
Dermatology: 2009 – Advanced Self-Assessment of Dermatopathology (San
Francisco, CA).
- 5/2009 Invited Faculty Speaker for the Melanoma Study Group Annual Meeting:
2009 – Spitz Nevi and Spitzoid Melanoma (Carmel, CA).
- 3/2010 Invited Faculty Speaker for the 13th Joint Meeting of the International Society of
Dermatopathology: 2010 – The Use of Molecular Techniques in the Diagnosis of
Cutaneous Lymphomas (Miami, FL).
- 3/2010 Invited Faculty Speaker for the USCLC sponsored Update on Cutaneous Lymphoma:
2010 – Standardization of TCR GR Clonality Tests (Miami, FL).

- 10/2010 Invited Faculty Course Director for the 47th Annual Meeting of the American Society of Dermatopathology: 2010 – Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (Atlanta, GA).
- 10/2010 Invited Faculty Speaker for the 31st Symposium of the International Society of Dermatopathology: 2010 – Self-Assessment Course (Barcelona, Spain).
- 2/2011 Invited Faculty Speaker for the 14th Joint Meeting of the International Society of Dermatopathology: 2011 – Self-Assessment Course (New Orleans, LA).
- 2/2011 Invited Faculty Speaker for the 69th Annual Meeting of the American Academy of Dermatology: 2011 – F059: Case Based Discussion in Cutaneous Lymphomas (New Orleans, LA).
- 5/2011 Invited Faculty Speaker for the 22nd World Congress of Dermatology: 2011: Evaluation of B cell clonality in cutaneous B cell proliferations (Seoul, South Korea).
- 5/2011 Invited Faculty Speaker for the 22nd World Congress of Dermatology: 2011 - How to diagnose cutaneous B cell lymphoma (Seoul, South Korea).
- 10/2011 Invited Faculty Course Director for the 48th Annual Meeting of the American Society of Dermatopathology: 2011 – Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (Seattle, WA).
- 3/2012 Invited Faculty Speaker for the United States Cutaneous Lymphoma Consortium: 2012 – The Histopathology of Mycosis Fungoides in Large Cell Transformation-Definitions and Controversies (San Diego, CA).
- 3/2012 Invited Faculty Speaker for the 70th Annual Meeting of the American Academy of Dermatology: 2012 – F014: Case Based Discussion in Cutaneous Lymphomas (San Diego, CA).
- 5/2012 Invited Faculty Speaker to Dermatology Grand Rounds, University of California-Davis: 2012 – The Role of Molecular Diagnostics in the Analysis of Cutaneous Lymphoma (Sacramento, CA).
- 10/2012 Invited Faculty Course Director for the 49th Annual Meeting of the American Society of Dermatopathology: 2012 – Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (Chicago, IL).
- 10/2013 Invited Faculty Course Director for the 50th Annual Meeting of the American Society of Dermatopathology: 2013 – Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (Washington, DC).
- 2/2014 Invited Faculty Speaker, Kaiser webinars for Northern California: 2014 – Rush biopsies (Stanford, CA)
- 4/2014 Invited Faculty Speaker, Kaiser webinars for Northern California: 2014 – Alopecia (Stanford, CA)
- 5/2014 Invited Faculty Speaker for the 4th Annual London Dermatopathology Symposium: 2014 – The inflammatory biopsy (London, England).

- 5/2014 Invited Faculty Speaker for the 4th Annual London Dermatopathology Symposium 2014 – Urgent diagnoses in dermatopathology (London, England).
- 5/2014 Invited Faculty Course Director for the 4th Annual London Dermatopathology Symposium 2014 – The skin biopsy in systemic diseases-scope session (London, England).
- 11/2014 Invited Faculty Course Director for the 51th Annual Meeting of the American Society of Dermatopathology: 2014 - Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (Chicago, IL).
- 11/2014 Invited Faculty Speaker for the Manchester Dermatopathology Update Course 2014 (Manchester, England).
- 5/2015 Invited Faculty Course Director for the 5th Annual London Dermatopathology Symposium 2015 – The skin biopsy in systemic diseases (London, England).
- 5/2015 Invited Faculty Course Director for the 5th Annual London Dermatopathology Symposium 2015 – The skin biopsy in systemic diseases-scope session (London, England).
- 6/2015 Invited Faculty Course Director for the 1st Annual Understanding Dermatopathology Meeting (DermPathPro): 2015 (Miami Beach, FL).
- 10/2015 Invited Faculty Course Director for the 52th Annual Meeting of the American Society of Dermatopathology: 2015: Consultations in Dermatopathology: Difficult Cutaneous Lymphoma Cases from the Stanford Case Files (San Francisco, CA).

Lectures for Medical Students and Residents

- 7/2003 – 3/2015 Lecturer for Residency Curriculum, Department of Pathology, Stanford University, Stanford, CA
- 7/2003 – 3/2015 Lecturer for Residency Curriculum, Department of Dermatology, Stanford University, Stanford, CA
- 7/2003 – 3/2015 Lecturer for Medical School Curriculum, Pathology Section-Human Health and Disease, Stanford University, Stanford, CA
- 7/2016 – present Lecturer for Residency Curriculum, Department of Pathology, Beaumont Health Systems, Royal Oak, MI
- 1/2017 – present Lecturer for Medical School Curriculum, Pathology Section, Oakland University William Beaumont School of Medicine, Royal Oak, MI

Administrative Positions

- 7/2018 – present Co-Lead, Diagnostic Focus Group-Dermatopathology, Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 1/2012 – 3/2015 Member, Stanford Cancer Institute, Stanford, CA
- 6/2009 – 10/2012 Alternate to Faculty Senate, Stanford University, Stanford, CA

- 9/2008 – 2/2012 Director, Dermatopathology Fellowship, Stanford University, Stanford, CA
- 10/2008 – 8/2011 Member, Interim Medical Director of Dermatopathology, Pathology Department Leadership Group, Stanford University, Stanford, CA
- 9/2008 – 8/2011 Interim Medical Director, Dermatopathology Service, Stanford University, Stanford, CA
- 7/2008 – 9/2008 Acting Medical Director, Dermatopathology Service, Stanford University, Stanford, CA
- 7/2008 – 9/2008 Acting Director, Dermatopathology Fellowship, Stanford University, Stanford, CA
- 7/2007 – 10/2008 Member, Representative of Assistant Professors, Pathology Department Leadership Group, Stanford University, Stanford, CA
- 7/2004 – 6/2008 Co-Associate Medical Director, Dermatopathology Service, Stanford University, Stanford, CA
- 7/2003 – 6/2004 Associate Medical Director, Dermatopathology Service, Stanford University, Stanford, CA

Clinical Positions

- 1/2016 – present Staff Pathologist
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 2/2015 – 10/2015 Staff Pathologist
Associated Pathology Medical Group, Los Gatos, CA
- 7/2003 – 3/2015 Staff Dermatopathologist
Stanford Hospital and Clinics, Stanford, CA
- 6/2005 – 3/2015 Staff Dermatopathologist
Lucile Packard Children’s Hospital, Stanford, CA

Committees

- 11/2018 – present Chair, Informatics Committee, American Society of Dermatopathology
- 11/2017 – 11/2018 Vice Chair, Informatics Committee, American Society of Dermatopathology
- 11/2018 – present Chair, Diagnostic Quality Assurance Committee, American Society of Dermatopathology
- 11/2017 – 11/2018 Vice Chair, Diagnostic Quality Assurance Committee, American Society of Dermatopathology
- 7/2016 – present Member, Departmental Committee for Appointments and Promotions, Corewell Health Pathology, Corewell Health System East, Royal Oak, MI
- 7/2016 – 7/2018 Member, Residency Selection Committee, Pathology Department, Beaumont Health Systems, Royal Oak, MI

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| 11/2015 – present | Lead, Lymphoproliferative Group, Appropriate Use Criteria Task Force, American Society of Dermatopathology |
| 11/2014 – present | Member, Diagnostic Quality Assurance Committee, American Society of Dermatopathology |
| 11/2014 – present | Member, Informatics Committee, American Society of Dermatopathology |
| 10/2013 – 10/2017 | Member, Maintenance of Certification Committee, American Society of Dermatopathology |
| 7/2013 – 5/2015 | Member, Stanford University School of Medicine Admissions Panel |
| 1/2013 – 12/2015 | Member, Committee on Practice Management, College of American Pathologists |
| 3/2010 – 3/2015 | Member, Pathology Committee, United States Cutaneous Lymphoma Consortium |
| 3/2010 | Co-Chair, Proffered Papers in Dermatopathology, 99th Annual Meeting of the United States and Canadian Academy of Pathology, Washington, DC |

PUBLICATIONS

Peer Reviewed

V.A. Vaillancourt, M. Agharahimi, **U.N. Sundram**, O. Richou, D.J. Faulkner and K.F. Albizati. "Synthesis and Absolute Configuration of the Antiparasitic Furanosesquiterpenes (-) Furodysin and (-) Furodysinin. Camphor as a Six- Membered Ring Chiral Pool Template." *J Org Chem* 1991 Jan; 56(1): 378-87.

U.N. Sundram and K.F. Albizati. "The Stereochemical Requirement in the Fragmentation of 9-Bromocamphor Derivatives. A New Class of Chiral Pool Elements." *J Org Chem* 1991 Apr; 56 (8): 2622-24.

U.N. Sundram and K.F. Albizati. "Synthesis and Absolute Configuration of Polypropionate Metabolites of *Siphonaria australis*." *Tetrahedron Lett* 1992 Feb; 33 (4):437-40.

U.N. Sundram and J. H. Griffin. "General and Efficient Method for the Solution- and Solid-Phase Synthesis of Vancomycin Carboxamide Derivatives." *J Org Chem* 1995 Mar; 60 (5): 1102-3.

U.N. Sundram, J. H. Griffin, and T.I. Nicas. "Novel Vancomycin Dimers with Activity against Vancomycin-Resistant Enterococci." *J Am Chem Soc* 1996 Dec; 118 (51): 13107-8.

N.L. Lehman, D.S. Houroupian, R.A. Warnke, **U. Sundram**, K. Peterson, and G.R. Harsh 4th. "Dural Marginal Zone Lymphoma with Massive Amyloid Deposition: Rare Low-Grade Primary Central Nervous System B-Cell Lymphoma. Case Report." *J Neurosurg* 2002 Feb; 96(2):368-72.

J. Jacobi, J.J. Jang, **U. Sundram**, H. Dayoub, L.F. Fajardo, and J.P. Cooke. "Nicotine Accelerates Angiogenesis and Wound Healing in Genetically Diabetic Mice." *Am J Pathol* 2002 Jul; 161(1):97-104.

J. D. Harvell, M. Nowfar-Rad, and **U. Sundram**. "An Immunohistochemical Study of CD4, CD8, TIA-1, and CD56 Subsets in Inflammatory Skin Disease." *J Cutan Pathol* 2003 Feb; 30(2):108-13.

U. Sundram, J. Harvell, R. Rouse, and Y. Natkunam. "Expression of the B cell proliferation marker MUM1 by Melanocytic Lesions and Comparison with S100, gp100 (HMB45), and Melan A." *Mod Pathol* 2003 Aug; 16(8):802-810.

J. Jacobi, B.Y.Y. Tam, **U. Sundram**, G. von Degenfeld, H.M. Blau, C.J. Kuo, and J.P. Cooke. "Discordant Effects of a Soluble VEGF Receptor on Wound Healing and Angiogenesis." *Gene Ther* 2004 Feb; *11*(3):302-9.

U. Sundram, Y. Kim, S. Mraz-Gernhard, R. Hoppe, Y. Natkunam, and S. Kohler. "Expression of the bcl-6 and MUM1 Proteins Correlate with Overall and Disease Specific Survival in Patients with Primary Cutaneous Large B-cell Lymphoma: A Tissue Microarray Study." *J Cutan Pathol* 2005 Mar; *32*(3):227-34.

J. E. Wrede, **U. Sundram**, S. Kohler, A.M. Cherry, D.A. Arber, and T. I. George. "Fluorescence In-Situ Hybridization Investigation of Cutaneous Lesions in Acute Promyelocytic Leukemia." *Mod Pathol* 2005 Dec; *18*(12):1569-76.

R. Sachdev and **U. Sundram**. "Expression of CD163 in Dermatofibroma, Cellular Fibrous Histiocytoma and Dermatofibrosarcoma Protuberans: Comparison with CD68, CD34, and Factor XIIIa." *J Cutan Pathol* 2006 May; *33*(5):353-60.

K. S. Doeden and **U. Sundram**. "EMA and ALK-1 immunostaining in cutaneous CD 30+ lymphoproliferative disorders." *Am J Dermatopathol* 2006 Jun; *28*(3): 234.

B.Y. Tam, K. Wei, J. S. Rudge, J. Hoffman, J. Holash, S.K. Park, J. Yuan, C. Hefner, C. Chartier, J.S. Lee, S. Jiang, N.R. Niyak, F.A. Kuypers, L. Ma, **U. Sundram**, G. Wu, J.A. Garcia, S.L. Schrier, J.J. Maher, R.S. Johnson, G.D. Yancopoulos, R.C. Mulligan, C.J. Kuo. VEGF modulates erythropoiesis through regulation of adult hepatic erythropoietin synthesis. *Nat Med* 2006 Jul; *12*(7):793- 800.

R. Sachdev and **U.N. Sundram**. "Frequent expression of NK1/C3 in normal and neoplastic tissues limits its utility in the diagnosis of cellular neurothekeoma." *Am J Clin Pathol* 2006 Oct; *126*(4):554-63.

U.N. Sundram and Y. Natkunam. "Mast cell tryptase and microphthalmia transcription factor effectively discriminate cutaneous mast cell disease from myeloid leukemia cutis." *J Cutan Pathol* 2007 April; *34*(4):289-95.

K. Doeden, H. Molina-Kirsch, E. Perez, R. Warnke, and **U. N. Sundram**. "Hydroa-like lymphoma with CD56 expression." *J Cutan Pathol* 2008 May; *35*(5):488-94.

R.V. Kartha and **U.N. Sundram**. "Silent mutations in c-KIT and PDGFR-A and co-expression of receptors with SCF and PDGF-A in Merkel cell carcinoma: implications for tyrosine kinase-based tumorigenesis." *Mod Pathol* 2008 Feb; *21*(2):96-104.

X. Xie, **U. Sundram**, Y. Natkunam, S. Kohler, R.T. Hoppe, Y.H. Kim, J.R. Cook, J. Hammel, S.H. Swerdlow, J. Guitart, M.D. Smith, D. Bosler, C. Listinsky, I.S. Lossos, and E.D. Hsi. "Expression of HGAL in primary cutaneous large B cell lymphomas: evidence for germinal center derivation of primary cutaneous follicular lymphoma." *Mod Pathol* 2008 Jun; *21*(6):653-9.

L.A. Bedocs, I. Mattoch, **U. Sundram**, and A.L. Bruckner. "Persistent scale in the diaper area." *Pediatr Dermatol* 2008 Jul-Aug; *25*(4):477-8.

A.V. Morales, D.A. Arber, K. Seo, S. Kohler, Y.H. Kim, and **U.N. Sundram**. "Evaluation of B cell clonality using the BIOMED-2 PCR method effectively distinguishes cutaneous B-cell lymphoma from benign lymphoid infiltrates." *Am J Dermatopathol* 2008 Oct; *30*(5):425-30.

J.C. McAllister, B. Recht, T.E. Hoffman, and **U.N. Sundram**. "CD34+ pigmented fibrous proliferations: the morphologic overlap between pigmented dermatofibromas and Bednar tumors." *Am J Dermatopathol* 2008 Oct; *30*(5):484- 7.

O.K. Weinberg, L. Ma, K. Seo, A.H. Beck, R.K. Pai, A. Morales, Y. Kim, **U. Sundram**, D. Tan, S.J. Horning, R.T. Hoppe, Y. Natkunam, and D.A. Arber. "Low stage follicular lymphoma: biologic and clinical characterization according to nodal or extra nodal primary origin." *Am J Surg Pathol* 2009 Apr; 33(4): 591-8.

V. Vanchinathan, E.C. Marinelli, R.V. Kartha, A. Uzieblo, M. Ranchod, and **U.N. Sundram**. "A malignant cutaneous neuroendocrine tumor with features of Merkel cell carcinoma and differentiating neuroblastoma." *Am J Dermatopathol* 2009, Apr; 31(2):193-6.

I.W. Mattoch, R. Fulton, Y. Kim, R. Hoppe, R.A. Warnke, and **U.N. Sundram**. "Cutaneous peripheral T cell lymphoma associated with a proliferation of B cells." *Am J Clin Pathol* 2009, Jun; 131 (6):810-9.

D.M.P. Cronin, T.I. George, and **U.N. Sundram**. "An updated approach to the diagnosis of myeloid leukemia cutis." *Am J Clin Pathol* 2009, Jul; 132(1):101-10.

K.P. Huang, I.W. Mattoch, **U.N. Sundram**, and A.L. Bruckner. "Warty plaque in a boy with recessive dystrophic epidermolysis bullosa." *Pediatr Dermatol* 2009, Nov-Dec; 26(6): 747-8.

B. Zhang, A.H. Beck, J.M. Taube, S. Kohler, K. Seo, J. Zwerner, N. Viakhireva, **U. Sundram**, Y.H. Kim, I. Schrijver, D.A. Arber, and J.L. Zehnder. "Combined use of PCR based TCRG and TCRB clonality tests on paraffin embedded skin tissue in the differential diagnosis of mycosis fungoides and inflammatory dermatoses." *J Mol Diagn* 2010, May; 12(3): 320-7.

R. Sachdev, J. Robbins, S. Kohler, V. Vanchinathan, E.J. Schwartz, and **U.N. Sundram**. "CD163 expression is present in cutaneous histiocytomas but not in atypical fibroxanthomas." *Am J Clin Pathol* 2010 Jun; 133(6):915-21.

K. E. Rieger, T. W. Ridky, and **U.N. Sundram**. "Skin nodules in a patient with acute myeloid leukemia and neurological deterioration—quiz case. Disseminated fusariosis." *Arch Dermatol* 2010 Sep; 146:1037-42.

D. Fiorentino, R.O. Chen, D.B. Stewart, K.K. Brown, and **U.N. Sundram**. "The direct cellular target of topically applied pimecrolimus may not be infiltrating lymphocytes." *Br J Dermatol* 2011 May; 164 (5): 996-1003.

N. Mirzamani and **U.N. Sundram**. "A case of sebaceous carcinoma in an adolescent male". *J Cutan Pathol* 2011 May; 38(5):435-8.

S. Dabiri, A. Morales, L. Ma, **U. Sundram**, Y.H. Kim, D.A. Arber, and J. Kim. "The frequency of dual TCR-PCR clonality in granulomatous disorders." *J Cutan Pathol* 2011 Sep; 38(9):704-9.

A. Wysong, **U. Sundram**, and L. Benjamin. "Clear cell papulosis: a rare entity that may be misconstrued pathologically as normal skin." *Pediatr Dermatol* 2012 Mar-Apr; 29(2):195-8.

C. Levin, N. Mirzamani, J. Zwerner, Y. Kim, E.J. Schwartz, and **U. Sundram**. "A comparative analysis of cutaneous marginal zone lymphoma and cutaneous chronic lymphocytic leukemia." *Am J Dermatopathol* 2012 Feb; 34(1):18-23.

D.M. Cronin, T.I. George, K.K. Reichard, and **U.N. Sundram**. "Immunophenotypic analysis of myeloperoxidase-negative leukemia cutis and blastic plasmacytoid dendritic cell neoplasm." *Am J Clin Pathol* 2012 Mar; 137(3):367-76.

R. Sachdev, T.I. George, E.J. Schwartz, and **U.N. Sundram**. "Discordant immunophenotypic profiles of adhesion molecules and cytokines in acute myeloid leukemia involving bone marrow and skin." *Am J Clin Pathol* 2012 Aug; 138:290-9.

S. Bashey, M. Krathen, F. Abdulla, **U. Sundram**, and Y.H. Kim. "Romidepsin is effective in subcutaneous panniculitis like T cell lymphoma." *J Clin Oncol* 2012 Aug; 30:e221-5.

S.T. Hollmig, K.E. Rieger, M.T. Henderson, R.B. West, and **U.N. Sundram**. "Reconsidering the diagnostic and prognostic utility of LN-2 for undifferentiated pleomorphic sarcoma and atypical fibroxanthoma." *Am J Dermatopathol* 2012 Sep 20.

C.S. Lee, A. Ungewickell, A. Bhaduri, K. Qu, D.E. Webster, R. Armstrong, W.K. Weng, C. J. Aros, A. Mah, R.O. Chen, **U. Sundram**, H.Y. Chang, M. Kretz, Y.H. Kim, and P.A. Khavari. "Transcriptome sequencing in Sezary syndrome identifies Sezary cell and mycosis fungoides associated inc RNAs and novel transcripts." *Blood* 2012 Oct; 120 (16):3288-97.

J Guitart, D.D. Weisenberger, A. Subtil, E. Kim, G. Wood, M. Duvic, E. Olsen, J. Junkins Hopkins, S. Rosen, **U. Sundram**, D. Ivan, M.A. Selim, L. Pincus, J. M. Deonizio, M. Kwasny, and Y. H. Kim. "Cutaneous gamma delta T cell lymphomas: spectrum of presentations with overlap with other cytotoxic lymphomas." *Am J Surg Pathol* 2012 Nov; 36:1656-65.

S.R. Lessin, M. Duvic, J. Guitart, A.G. Pandya, B.E. Strober, E.A. Olsen, C.M. Hull, E.H. Knobler, A.H. Rook, E.J. Kim, M.F. Naylor, D.M. Adelson, A.B. Kimball, G.S. Wood, **U. Sundram**, H. Wu, and Y.H. Kim. "Topical chemotherapy in cutaneous T cell lymphoma: positive results of a randomized, controlled, multicenter trial testing the efficacy and safety of a novel mechlorethamine, 0.02%, gel in mycosis fungoides." *JAMA Dermatol* 2013 Jan; 149: 25-32.

M. Fujiwara, A.V. Morales, K. Seo, Y.H. Kim, D.A. Arber, and **U.N. Sundram**. "Clonal identity and differences in primary cutaneous B cell lymphoma occurring at different sites or time points in the same patient." *Am. J. Dermatopathol* 2013 Feb; 35:11-8.

D.R. Berk, L. Jazayeri, M. P. Marinkovich, **U.N. Sundram**, A.L. Bruckner. "Diagnosing epidermolysis bullosa type and subtype in infancy using immunofluorescence microscopy: The Stanford experience." *Pediatr Dermatol* 2013 Mar; 30:226-33.

J. Cuda, N. Mirzamani, R. Kantipudi, J. Robbins, M. J. Welsch, and **U.N. Sundram**. "Diagnostic utility of Fli-1 and D2-40 in distinguishing atypical fibroxanthoma from angiosarcoma." *Am J Dermatopathol* 2013 May; 35:316-8.

J. L. Aby, M. Patel, **U. Sundram**, L.T. Benjamin. "Salivary gland choriostoma (heterotopic salivary gland tissue) on the anterior chest wall of a newborn." *Pediatr Dermatol* 2014 Jan-Feb; 31:e36-7.

K.A. Salva, A.K. Haemel, L.B. Pincus, J. Liu, **U. Sundram**, J Guitart, B. J. Longley, G. S. Wood. "Expression of CD31/PECAM-1 (platelet endothelial cell adhesion molecule 1) by blastic plasmacytoid dendritic cell neoplasms." *JAMA Dermatol* 2014 Jan; 150:73-6.

J.Y. Li, J. Guitart, M. P. Pulitzer, A. Subtil, **U. Sundram**, Y. Kim, J. Deonizio, P.L. Myskowski, A. Moskowitz, S. Horwitz, C. Querfeld. "Multicenter case series of indolent small/medium sized CD8+ lymphoid proliferations with predilection for the ear and face." *Am J Dermatopathol* 2014 May; 36(5):402-8.

G.A. Zhu, **U. Sundram**, A.L. Chang. "Two different scenarios of squamous cell carcinoma within advanced basal cell carcinomas: cases illustrating the importance of serial biopsy during vismodegib usage." *JAMA Dermatol* 2014 Sep; 150(9): 970-3.

R.T. Hoppe, C. Harrison, M. Tavallaee, S. Bashey, **U. Sundram**, S. Li, L. Million, B. Dabaja, P. Ganger, M. Duvic, Y.H. Kim. "Low-dose total skin electron beam therapy as an effective modality to reduce disease burden in patients with mycosis fungoides: results of a pooled analysis from 3 phase-II clinical trials." *J Am Acad Dermatol* 2015 Feb; 72(2):286-92.

V. Vanchinathan, N. Mirzamani, R. Kantipudi, E.J. Schwartz, **U.N. Sundram**. "The vascular marker CD31 also highlights histiocytes and histiocyte-like cells within cutaneous tumors." *Am J Clin Pathol* 2015 Feb; 143(2):177-85.

Y.H. Kim, M. Tavallae, **U. Sundram**, K.A. Salva, G.S. Wood, S. Li, S. Rozati, S. Nagpal, M. Krathen, S. Reddy, R.T. Hoppe, A. Nguyen-Lim, W.K. Weng, R. Armstrong, M. Pulitzer, R.H. Advani, S.M. Horwitz. "Phase II investigator initiated study of brentuximab vedotin in mycosis fungoides and Sezary syndrome with variable CD30 expression level: a multi-institution collaborative project." *J Clin Oncol* 2015 Nov; 10(33):32:3750-8.

A. Robson, Z. Shukur, M. Ally, J. Kluk, K. Liu, L. Pincus, D. Sahni, **U. Sundram**, Subtil, L. Karai, W. Kempf, S. Schieke, P. Coates. "Immunocytochemical p63 expression discriminates between primary cutaneous follicle center cell and diffuse large B cell lymphoma-leg type, and is of the Tap63 isoform." *Histopathology* 2016 Jul; 69(1): 11-9.

R.C. Johnson, J. Kim, Y.Natkunam, **U. Sundram**, A.G. Freud, B. Gammon, M.J. Cascio. "Myeloid cell nuclear differentiation antigen (MNDA) expression distinguishes extra medullary presentations of myeloid leukemia from blastic plasmacytoid dendritic cell neoplasm." *Am J Surg Pathol* 2016 Apr; 40(4):502-9.

A. Chargin, R. Morgan, **U. Sundram**, K. Shults, E.L. Tsay, N. Ratti, B.K. Patterson. Quantification of PD-L1 and PD-1 expression on tumor and immune cells in non-small cell lung cancer (NSCLC) using non enzymatic tissue dissociation and flow cytometry. *Cancer Immunol Immunother.* 2016 Nov; 65(11): 1317-23.

I. Amitay-Laish, **U. Sundram**, R.T. Hoppe, E. Hodak, B.C. Medeiros, Y.H. Kim. Localized skin limited blastic plasmacytoid dendritic cell neoplasm: A subset with possible durable remission without transplantation. *JAAD Case Rep* 2017 Jul; 3(4): 310-315.

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Editorials and Reviews

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|------------------|---|
| 6/2014 – present | Editor in Chief, Spot Diagnosis, DermPathPro |
| 1/2010 – 1/2016 | Faculty Member, Faculty of 1000 |
| 8/2009 – 1/2010 | Associate Faculty Member, Faculty of 1000 |
| 1/2009 – present | Member, Editorial Board, Journal of Cutaneous Pathology |

Reviewer

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|------------------|--|
| 7/2013 – present | <i>Journal of Lower Genital Tract Disease</i> |
| 7/2013 – present | <i>Journal of Pathology</i> |
| 7/2011 – present | Journal of the European Academy of Dermatology and Venereology |
| 7/2010 – present | International Journal of STD and AIDS |
| 7/2006 – present | Clinical Advances in Hematology and Oncology |
| 7/2005 – present | Leukemia and Lymphoma |
| 7/2003 – present | American Journal of Dermatopathology |
| 7/2003 – present | Journal of Cutaneous Pathology |

7/2003 – present Modern Pathology

7/2003 – present Cancer

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U.N. Sundram and K.F. Albizati. "New Fragmentations in the Camphor System. The Stereochemical Requirement for Cleavage of the C1-C7 Bond." 199th American Chemical Society National Meeting, Boston, MA, April 25 – 31, 1990. Abstract # ORGN 75.

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M. Fujiwara, D. Arber, Y. Kim, A. Morales, K. Seo, and **U.N. Sundram**. "Dual clones effectively distinguish primary cutaneous B cell lymphoma from reactive infiltrates." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Oral Presentation (Oral Abstract Winner for best presentation by a trainee, one of three awards presented).

C. Levin, N. Mizramani, J. Zwerner, Y. Kim, and **U.N. Sundram**. "Cutaneous marginal zone lymphoma and chronic lymphocytic leukemia can show morphologic and immunophenotypic overlap." 12th Joint Meeting of the International Society of Dermatopathology, San Francisco, CA, March 4 – 5, 2009, Oral Presentation.

R. Kantipudi, E.J. Schwartz, and **U.N. Sundram**. "An updated panel for the diagnosis of Paget's and extra mammary Paget's disease." 30th International Society of Dermatopathology Symposium, Santiago, Chile, October 28 – 31st, 2009, Oral Presentation.

V.Vanchinathan, R. Kantipudi, E.J. Schwartz, and **U.N. Sundram**. "The vascular marker CD31 also marks histiocytes within cutaneous tumors." 30th International Society of Dermatopathology Symposium, Santiago, Chile, October 28 – 31st, 2009, Oral Presentation.

J. Guitart, A Subtil, E. Kim, M. Duvic, G. Wood, D. Weisenburger, E. Olsen, J. Junkins-Hopkins, S. Rosen, **U. Sundram**, D. Ivan, A. Selim, J. Zwerner, and Y. Kim. "Cutaneous Gamma Delta Lymphomas: The US Experience." First World Congress of Cutaneous Lymphomas, Chicago, IL, September 22 – 25, 2010, Abstract 92, Oral Presentation.

A.V. Morales, M. Fujiwara, K. Seo, D.A. Arber, S. Kohler, Y.H. Kim, and **U.N. Sundram**. "Utility of Combined IgH and IgK BIOMED 2 Clonality Assays to Distinguish Primary Cutaneous B Cell Lymphoma from Cutaneous Lymphoid Hyperplasia and Assess Clonal Identity at Different Sites or Time Points." First World Congress of Cutaneous Lymphomas, Chicago, IL, September 22 – 25, 2010, Abstract 8, Oral Presentation.

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C. Jennings, T.I. George, and **U.N. Sundram**. "Expression analysis of homing molecules in cutaneous and systemic mastocytosis." European Competence Network in Mastocytosis, Oslo, Norway, 2010.

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A. Arredondo, C. Jennings, **U. Sundram**, Z.S. Lu, and T. I. George. "Expression of 2D7, a unique marker of basophils, in myeloproliferative neoplasms." 100th Annual Meeting of the United States and Canadian Academy of Pathology, San Antonio, TX, February 26 – March 4, 2011.

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S.T. Hollmig, E.B. Kirkland*, M. Henderson, H.B. Gladstone, K. Rieger*, R. West, and **U. Sundram**. "The Evolving Conception and Management Challenges of Undifferentiated Pleomorphic Sarcoma." American College of Mohs Surgery, Annual Meeting, Chicago, IL, May 3 – 6, 2012.

J. Duan and **U. Sundram**. "Loss of GATA-3 is commonly seen in invasive squamous cell carcinomas and squamous cell carcinomas in situ, but not in actinic keratosis." 34th International Society of Dermatopathology Symposium, Florence, Italy, September 26 – 28, 2013.

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POSTERS

U.N. Sundram, S. Mraz-Gerhard, M. Storz, Y.Natkunam, R. Hoppe, Y.Kim, and S. Kohler. "A Tissue Microarray Study of Primary Cutaneous Large B Cell Lymphoma." 39th Annual Meeting of the American Society of Dermatopathology, Phoenix, Arizona, October 10-13, 2002, Poster Session #2, Abstract #20.

U.N. Sundram, S. Mraz-Gerhard, M. Storz, Y.Natkunam, R. Hoppe, Y.Kim, and S. Kohler. "Expression of the bcl-6 protein correlates with overall survival in patients with primary cutaneous large B cell lymphoma." 92nd Annual Meeting of the United States and Canadian Academy of Pathology, Washington, D.C., March 22-28, 2003, Poster #66.

- A. Uzieblo and **U.N. Sundram**. "A case of a neuroendocrine tumor histologically mimicking cutaneous neuroblastoma." 40th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 9 – 12, 2003, Poster #174.
- C. Y. Park, R. A. Warnke, and **U.N. Sundram**. "HHV-8 in post-transplant lymphoproliferative disorders." 93rd Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, British Columbia, March 6 – 12, 2004, Poster #147.
- J. Chu McAllister and **U.N. Sundram**. "CD34+ pigmented fibrous proliferations: the morphologic overlap between pigmented dermatofibromas and Bednar tumors." 41st Annual Meeting of the American Society of Dermatopathology, Boston, MA, October 14 – 17, 2004, Poster #130.
- JE Wrede, **U.N. Sundram**, S. Kohler, A.M. Cherry, D.A. Arber, and T.I. George. "Fluorescence in-situ hybridization confirmation of cutaneous acute promyelocytic leukemia." 94th Annual Meeting of the United States and Canadian Academy of Pathology, San Antonio, TX, February 26 – March 4, 2005, Poster #74.
- R. Sachdev, T. George, and **U.N. Sundram**. "Discordant immunophenotypic profiles in acute myelogenous leukemia involving bone marrow and skin (leukemia cutis)." 2005 Pan Pacific Lymphoma Conference, Kauai, HI, July 11 – 15, 2005, Poster #17.
- K. Doeden and **U.N. Sundram**. "EMA and ALK-1 immunostaining in cutaneous CD30+ lymphoproliferative disorders." 9th Joint Meeting of the International Society of Dermatopathology, San Francisco, CA, March 1 – 2, 2006, Oral Abstract Presentation.
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- C. Levin, N. Mizramani, J. Zwerner*, Y. Kim, and **U.N. Sundram**. "Cutaneous marginal zone lymphoma and chronic lymphocytic leukemia can show morphologic and immunophenotypic overlap." 69th Annual Meeting of the Society for Investigative Dermatology, Montreal, Canada, May 6 – 9, 2009, Poster Presentation.
- I.W. Mattoch, R.A. Warnke, and **U.N. Sundram**. "Cutaneous peripheral T cell lymphoma associated with a proliferation of large B cells: Large B cell rich T cell lymphoma." 95th Annual Meeting of the United States and Canadian Academy of Pathology, Atlanta, GA, February 11-17, 2006, Poster #37.
- X. Xie, **U.N. Sundram**, S. Kohler, I. Lossos, Y. Natkunam, J.R. Cook, S.H. Swerdlow, J. Guitart, M. Smith, D. Bosler, C. Listinsky, J. Hammel, and E.D. Hsi. "BCL-6 negativity, female gender, and morphologic type predict poor overall survival in primary cutaneous large B cell lymphomas with a diffuse architecture." 95th Annual Meeting of the United States and Canadian Academy of Pathology, Atlanta, GA, February 11-17, 2006, Poster #134.
- K. Doeden, W.D. Howell, Y. Kim, R. Hoppe, Y. Natkunam, and **U.N. Sundram**. "PAX-5 and CD15 can distinguish between Type A lymphomatoid papulosis and cutaneous involvement by Hodgkin Lymphoma." 96th Annual Meeting of the United States and Canadian Academy of Pathology, San Diego, CA, March 24 – 30, 2007, Poster #84 (Abstract #402).
- D. Perry, T.I. George and **U.N. Sundram**. "An algorithmic approach to the diagnosis of myeloid leukemia cutis." 44th Annual Meeting of the American Society of Dermatopathology, Baltimore, MD, October 18 – 21, 2007, Poster #160.

A.V. Morales, K. Seo, D.A. Arber, S. Kohler, Y.H. Kim, and **U.N. Sundram**. "Combined BIOMED-2 clonality assays for IGH and IGK and assessment of t(14;18) on formalin-fixed, paraffin embedded tissues effectively separates primary cutaneous B cell lymphomas from reactive cutaneous lymphoid hyperplasia." 49th American Society of Hematology Annual Meeting and Exposition, Atlanta, GA, December 8 – 11, 2007, Poster Board #813-II.

C. Jennings, K. Bishop, S. Dadras, F. Ramos-Herberth, and **U.N. Sundram**. "An unusual presentation of cutaneous mastocytosis mimicking epithelioid hemangioma." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 197.

C. Jennings and **U.N. Sundram**. "Accumulated mast cells in cutaneous mastocytosis express CD183 and CD29." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 120.

V. Vanchinathan, R. Kartha, Y. Kim, E. Schwartz, and **U.N. Sundram**. "TRAF protein expression is increased in lymphomatoid papulosis." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 48.

R. Ohgami, A. Bruckner, C. Golden, A. Cherry, D. Bangs, and **U.N. Sundram**. "Congenital leukemia cutis in two related non identical siblings." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 52.

S. Dabiri, T. George, A. Bruckner, M. Jeng, and **U.N. Sundram**. "Aggressive Langerhans cell histiocytosis in a child with T acute lymphoblastic leukemia." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 183.

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C. Jennings and **U.N. Sundram**. "Expression analysis of homing molecules in cutaneous and systemic mastocytosis." 99th Annual Meeting of the United States and Canadian Academy of Pathology, Washington, DC, March 20 – 26, 2010, Poster 69.

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N. Mirzamani, R. Kantipudi, J. Cuda, and **U. Sundram**. "Both Fli-1 and D2-40 help distinguish atypical fibroxanthoma from angiosarcoma." 47th Annual Meeting of the American Society of Dermatopathology, Atlanta, GA, October 7 – 10, 2010, Poster Presentation.

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J. North, **U.N. Sundram**, M. Thompson, and C. White. "Paraneoplastic pemphigus associated with cutaneous T cell lymphoma with focal cytotoxic features." 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Poster 192.

C. Jennings and **U.N. Sundram**. "Expression analysis of homing molecules in cutaneous and systemic mastocytosis." 99th Annual Meeting of the United States and Canadian Academy of Pathology, Washington, DC, March 20 – 26, 2010, Poster 69.

R.S. Ohgami, B. Sun, J. Kosek, J. Tang, S. Chen, **U. Sundram** and E.J. Schwartz. "Touch preparation analysis of skin lesions is a rapid, accurate diagnostic technique: a prospective clinical-pathologic study." 99th Annual Meeting of the United States and Canadian Academy of Pathology, Washington, DC, March 20 – 26, 2010, Poster 72.

S. Dabiri, D.A. Arber, Y.H. Kim, **U.N. Sundram**, and J. Kim. "T cell receptor PCR from separate biopsies distinguishes granulomatous dermatitis from granulomatous mycosis fungoides." 99th Annual Meeting of the United States and Canadian Academy of Pathology, Washington, DC, March 20 – 26, 2010, Poster 98.

F. Abdulla, B. Zhang, A.H. Beck, J.M. Taube, S. Kohler, K. Seo, J. Zwerner, N. Viakhireva, **U. Sundram**, Y.H. Kim, I. Schrijver, D.A. Arber, and J.L. Zehnder. "The Combined use of TCRB and TCRG at Two Skin Sites in The Diagnosis of Mycosis Fungoides and Sezary Syndrome." First World Congress of Cutaneous Lymphomas, Chicago, IL, September 22 – 25, 2010, Poster Presentation.

N. Mirzamani, R. Kantipudi, J. Cuda, and **U. Sundram**. "Both Fli-1 and D2-40 help distinguish atypical fibroxanthoma from angiosarcoma." 47th Annual Meeting of the American Society of Dermatopathology, Atlanta, GA, October 7 – 10, 2010, Poster Presentation.

K.E. Rieger, R. Chen, B. DeClerck, and **U. Sundram**. "Majocchi's granuloma with dermal yeast like forms mimicking Cryptococcus and Blastomycosis." 15th Joint Meeting of the International Society of Dermatopathology, San Diego, CA, March 14 – 15, 2012, Poster Presentation.

ABSTRACTS

R. Sachdev, J. Robbins*, S. Kohler, and **U.N. Sundram**. "CD163 expression is present in cutaneous histiocytomas but not in atypical fibroxanthomas." 42nd Annual Meeting of the American Society of Dermatopathology, Seattle, WA, October 20 – 23, 2005, Oral Abstract Session 1 (Abstract #588).

R. Sachdev, T. George, and **U.N. Sundram**. "Discordant immunophenotypic profiles in acute myeloid leukemia involving bone marrow and skin." 42nd Annual Meeting of the American Society of Dermatopathology, Seattle, WA, October 20 – 23, 2005, Oral Abstract Session 2 (Abstract #477).

R. Sachdev and **U.N. Sundram**. "Frequent expression of NK1/C3 in normal and neoplastic tissues limits its utility in the diagnosis of cellular neurothekeoma." 42nd Annual Meeting of the American Society of Dermatopathology, Seattle, WA, October 20 – 23, 2005, Oral Abstract Session 1 (Abstract #464).

A.V. Morales, K. Seo, D.A. Arber, S. Kohler, **U.N. Sundram**, and Y. Kim. "Evaluation of B-cell clonality using the BIOMED-2 PCR method effectively distinguishes cutaneous B cell lymphoma from benign lymphoid infiltrates." Investigative International Dermatology 2008, May 14 – 17, 2008, Kyoto, Japan, Abstract # 331.

U.N. Sundram and Y. Natkunam. "Mast cell tryptase and microphthalmia transcription factor effectively discriminate between cutaneous mast cell disorders and leukemia cutis: a comparative cytochemical and immunohistochemical study." 41st Annual Meeting of the American Society of Dermatopathology, Boston, MA, October 14 – 17, 2004, Oral Abstract Session 1.

R. Sachdev, T. George, and **U.N. Sundram**. “Discordant immunophenotypic profiles in acute myeloid leukemia involving bone marrow and skin.” 42nd Annual Meeting of the American Society of Dermatopathology, Seattle, WA, October 20 – 23, 2005, Oral Abstract Session 2 (Abstract #477).

R. Sachdev and **U.N. Sundram**. “Frequent expression of NK1/C3 in normal and neoplastic tissues limits its utility in the diagnosis of cellular neurothekeoma.” 42nd Annual Meeting of the American Society of Dermatopathology, Seattle, WA, October 20 – 23, 2005, Oral Abstract Session 1 (Abstract #464).

K. Doeden and **U.N. Sundram**. “EMA and ALK-1 immunostaining in cutaneous CD30+ lymphoproliferative disorders.” 9th Joint Meeting of the International Society of Dermatopathology, San Francisco, CA, March 1 – 2, 2006, Oral Abstract Presentation.

A.V. Morales, K. Seo, D.A. Arber, S. Kohler, **U.N. Sundram**, and Y. Kim. “Evaluation of B-cell clonality using the BIOMED-2 PCR method effectively distinguishes cutaneous B cell lymphoma from benign lymphoid infiltrates.” Investigative International Dermatology 2008, May 14 – 17, 2008, Kyoto, Japan, Abstract # 331.

D. Cronin and **U.N. Sundram**. “Immunohistochemistry in myeloid leukemia cutis and blastic plasmacytoid dendritic cell neoplasms.” 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Oral Presentation (Oral Abstract Winner for best presentation by a trainee, one of three awards presented).

M. Fujiwara, D. Arber, Y. Kim, A. Morales, K. Seo, and **U.N. Sundram**. “Dual clones effectively distinguish primary cutaneous B cell lymphoma from reactive infiltrates.” 46th Annual Meeting of the American Society of Dermatopathology, Chicago, IL, October 1 – 4, 2009, Oral Presentation (Oral Abstract Winner for best presentation by a trainee, one of three awards presented).

RESEARCH / GRANTS

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|------------------|---|
| 7/2019 – present | Comparison of Lichen Sclerosus in men and women and documentation of MF like characteristics. |
| 7/2019 – present | Documentation of MF like features in discoid lupus erythematosus. |
| 7/2016 – present | Comparison of biomarkers in cutaneous metastatic breast carcinoma and primary breast carcinoma. |