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| BIOGRAPHICAL SKETCH Provide the following information for the key personnel and other significant contributors. Follow this format for each person.  **DO NOT EXCEED FOUR PAGES.** | | | | |
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| NAME  Haggstrom, Anita Nijhawan | | POSITION TITLE  Associate Professor of Dermatology and Pediatrics,  Arthur Norins Investigator | | |
| eRA COMMONS USER NAME  AHAGGSTR | |
| EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)* | | | | |
| INSTITUTION AND LOCATION | DEGREE  *(if applicable)* | | YEAR(s) | FIELD OF STUDY |
| University of Illinois, Champaign-Urbana | B.S. | | 1989-1993 | Honors Biology |
| University of Nebraska Medical Center | M.D. | | 1994-1998 | Medicine |
| University of Nebraska Medical Center |  | | 1998-1999 | Internship – Medicine |
| Medical College of Wisconsin |  | | 1999-2002 | Residency – Dermatology |
| University of California, San Francisco |  | | 2002-2004 | Fellowship – Pediatric Dermatology |

**A. Personal Statement**

I am a clinician-investigator with expertise in infantile hemangiomas and vascular anomalies. I currently hold weekly vascular birthmark clinics and am the Director of the bimonthly Multidisciplinary Vascular Lesion Clinic at Riley Children’s Hospital. As a founding member and current President of the Hemangioma Investigator Group I am involved in several multicenter clinical studies involving patients with infantile hemangiomas. Recently, I have completed the development of two outcome measures for infantile hemangioma studies with NIH funding support. Working in a collaborative fashion with members of the Hemangioma Investigator Group, we were able to develop a useful severity scale for infantile hemangiomas as well as a health-related quality of life instrument for families affected by infantile hemangioma.

I have recently garnered approval to direct a pediatric dermatology fellowship at Indiana University and look forward to training future pediatric dermatologists. In addition, I serve as our departments Director of the Dermatology Residency Program. This position affords me opportunities to mentor in both the clinical and research settings.

**B. Positions and Honors**

2003- 2004 University of California, San Francisco, Clinical Instructor of Dermatology

2004- 2006 George Washington University, Assistant Professor of Dermatology

2004- 2006 University Dermatology Associates, Washington D.C.; General Dermatology Practice

2006- 2011 Indiana University, Assistant Professor of Dermatology and Pediatrics

Arthur Norins Investigator, Director of Pediatric Dermatology

2010-present Dermatology Residency Director, IU Department of Dermatology

2011-present Associate Professor of Dermatology and Pediatrics

**Other Experience and Professional Memberships**

2013- present Hemangioma Investigator Group, President

2008- 2013 Hemangioma Investigator Group, Vice President

2012-present Society of Pediatric Dermatology Foundation Committee Member

2002- 2008 Society of Pediatric Dermatology, Awards and Goals Committee

2002- present Ad hoc Reviewer for Pediatric Dermatology, Archives of Dermatology

2001- present Hemangioma Investigator Group, Member

1999- present American Academy of Dermatology, Member

1999- present Society of Pediatric Dermatology, Member

**Honors and Awards**

2005 National Institutes of Health, R-13 Grant, Hemangioma Research Workshop

2004 Society of Pediatric Dermatology Grant, Hemangioma of Infancy Study

2003 Dermatology Foundation Dermatologist Investigator Research Fellowship Award

2002 Dermatology Foundation Pediatric Dermatology Fellowship Award

**B. Selected Publications** (in chronological order)

1. Nijhawan A, Baselga E, Gonzalez-Ensenat MA, Vicente A, Southern JF, Camitta, BM, Esterly NB, Drolet BA. Vesiculopustular Eruptions in Down Syndrome Neonates with Myeloproliferative Disorders. *Archives of Dermatology*. 2001;137:760-763.
2. Mathes E, Haggstrom AN, Dowd D, Hoffman W, Frieden IJ. Clinical Characteristics and Management of Vascular Anomalies: Findings of a Multidisciplinary Vascular Anomalies Clinic. *Arch Dermatol* 2004 Aug;140(8):979-83.
3. Frieden IJ, Haggstrom AN, Drolet BA, et al. Infantile hemangiomas: current knowledge, future directions. Proceedings of a research workshop on infantile hemangiomas, April 7-9, 2005, Bethesda, Maryland, USA. PediatrDermatol. 2005 Sep-Oct;22(5):383-406. *Pediatric Dermatology*. 2005 22(5):383-406.
4. Haggstrom AN, Lammer EJ, Schneider RA, Marcucio R, Frieden IJ. Patterns of infantile hemangiomas: New clues to hemangioma pathogenesis and embryonic facial development. *Pediatrics.* 2006 Mar;117(3):698-703.
5. [Metry DW, Haggstrom AN, Drolet BA, et al.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16575892&query_hl=2&itool=pubmed_docsum) A prospective study of PHACE syndrome in infantile hemangiomas: demographic features, clinical findings, and complications.  
   *Am J Med Genet*. 2006 May 1;140(9):975-86.
6. [Haggstrom AN, Drolet BA, Baselga E, et al](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16950977&query_hl=2&itool=pubmed_docsum). Prospective study of infantile hemangiomas: clinical characteristics predicting complications and treatment. *Pediatrics*. 2006 Sep;118(3):882-7.
7. Haggstrom AN, Drolet BA, Baselga E, et al. Prospective study of infantile hemangiomas: demographic, prenatal and perinatal characteristics. *J Pediatrics* 2007 Mar;150(3):291-4.
8. Chamlin SL, Haggstrom AN, Drolet BA, Baselga E, Frieden IJ, Garzon MC, Horii KA, Lucky AW, Metry DW, Newell B, Nopper AJ, Mancini AJ. A Multicenter prospective study of ulcerated hemangiomas. *J Pediatr.* 2007 Dec;151(6):684-9, 689
9. Chang LC, Haggstrom AN, Drolet BA, Baselga E, Chamlin SL, Garzon MC, Horii KA, Lucky AW, Mancini AJ, Metry DW, Nopper AJ, Frieden IJ; Hemangioma Investigator Group. Growth characteristics of infantile hemangiomas: implications for management. *Pediatrics.* 2008 Aug;122(2):360-7.
10. Garzon MC, Drolet BA, Baselga E, Chamlin SL, Haggstrom AN, Horii K, Lucky AW, Mancini AJ, Metry DW, Newell B, Nopper AJ, Frieden IJ; Hemangioma Investigator Group.Comparison of infantile hemangiomas in preterm and term infants: a prospective study. *Arch Dermatol.* 2008 Sep;144(9):1231-2.
11. Travers JB, Kozman A, Mousdicas N, Saha C, Landis M, Al-Hassani M, Yao W, Yao Y, Hyatt AM, Sheehan MP, Haggstrom AN, Kaplan MH. Infected atopic dermatitis lesions contain pharmacologic amounts of lipoteichoic acid.*J Allergy ClinImmunol*. 2010 Jan;125(1):146-52.e1-2.
12. Horii KA, Drolet BA, Baselga E, Frieden IJ, Metry DW, Morel KD, Newell BD, Nopper AJ, Garzon MC; Hemangioma Investigator Group. Risk of hepatic hemangiomas in infants with large hemangiomas. *Arch Dermatol.* 2010 Feb;146(2):201-3. No abstract available.
13. Haggstrom AN, Garzon MC, Baselga E, Chamlin S, Frieden IJ, Holland K, Maguiness S, Mancini A, McCuaig C, Metry D, Morel K, Powell J, Perkins S, Siegel D, Drolet B. Prospective Multicenter Study Examining the Risk for PHACE Syndrome in Infants with Large Facial Hemangiomas. *Pediatrics.* 2010 Aug;126(2):e418-26.
14. Drolet BA, Chamlin SL, Garzon MC, Adams D, Baselga E, Haggstrom AN, Holland KE, Horii KA, Juern A, Lucky AW, Mancini AJ, McCuaig C, Metry DW, Morel KD, Newell BD, Nopper AJ, Powell J, Frieden IJ. Prospective study of spinal anomalies in children with infantile hemangiomas of the lumbosacral skin. *J Pediatr.* 2010 Nov;157(5):789-94.
15. Hess CP, Fullerton HJ, Metry DW, Drolet BA, Siegel DH, Auguste KI, Gupta N, Haggstrom AN, Dowd CF, Frieden IJ, Barkovich AJ. Cervical and Intracranial Arterial Anomalies in 70 Patients with PHACE Syndrome. *AJNR Am J Neuroradiol*. 2010 Nov;31(10):1980-6.
16. Drolet BA, Chamlin SL, Garzon MC, Adams D, Baselga E, Haggstrom AN, Holland KE, Horii KA, Juern A, Lucky AW, Mancini AJ, McCuaig C, Metry DW, Morel KD, Newell BD, Nopper AJ, Powell J, Frieden IJ Prospective study of spinal anomalies in children with infantile hemangiomas of the lumbosacral skin. J Pediatr. 2010 Nov;157(5):789-94.
17. Horii KA, Drolet BA, Frieden IJ, Baselga E, Chamlin SL, Haggstrom AN, Holland KE, Mancini AJ, McCuaig CC, Metry DW, Morel KD, Newell BD, Nopper AJ, Powell J, Garzon MC; Hemangioma Investigator Group. Prospective study of the frequency of hepatic hemangiomas in infants with multiple cutaneous infantile hemangiomas. PediatrDermatol. 2011 May-Jun;28(3):245-53.
18. Haggstrom AN, Skillman S, Garzon MC, Drolet BA, Holland K, Matt B, McCuaig C, Metry DW, Morel K, Powell J, Frieden IJ. Clinical spectrum and risk of PHACE syndrome in cutaneous and airway hemangiomas. Arch Otolaryngol Head Neck Surg. 2011 Jul;137(7):680-7.
19. McCammack E, Haggstrom AN. Cutaneous manifestations of connective tissue disease.

Adolesc Med State Art Rev. 2011 Apr;22(1):35-53.

1. Travers JB, Kozman A, Yao Y, Ming W, Yao W, Turner MJ, Kaplan MH, Mousdicas N, Haggstrom AN, Saha C. Treatment Outcomes of Secondarily Impetiginized Pediatric Atopic Dermatitis Lesions and the Role of Oral Antibiotics. PediatrDermatol. 2011 Dec 9.
2. Haggstrom AN, Beaumont JL, Lai JS, Adams DM, Drolet BA, Frieden IJ, Garzon MC, Holland KE, Horii KA, Lucky AW, Mancini AJ, Metry DW, Morel KD, Newell BD, Nopper AJ, Siegel D, Swigonski NL, Cella D, Chamlin SL. Measuring the severity of infantile hemangiomas: instrument development and reliability. Arch Dermatol. 2012 Feb;148(2):197-202.
3. Drolet BA, Frommelt PC, Chamlin SL, Haggstrom A, Bauman NM, Chiu YE, Chun RH, Garzon MC, Holland KE, Liberman L, MacLellan-Tobert S, Mancini AJ, Metry D, Puttgen KB, Seefeldt M, Sidbury R, Ward KM, Blei F, Baselga E, Cassidy L, Darrow DH, Joachim S, Kwon EK, Martin K, Perkins J, Siegel DH, Boucek RJ, Frieden IJ. [Initiation and use of propranolol for infantile hemangioma: report of a consensus conference.](http://www.ncbi.nlm.nih.gov/pubmed/23266923) Pediatrics. 2013 Jan;131(1):128-40.
4. Lee PW, Frieden IJ, Streicher JL, McCalmont T, Haggstrom AN. [Characteristics of noninvoluting congenital hemangioma: A retrospective review.](http://www-ncbi-nlm-nih-gov.proxy.medlib.iupui.edu/pubmed/24630000) J Am Acad Dermatol. 2014 May;70(5):899-903.
5. Weitz BA, Bayer ML, Baselga E, Torres M, Siegel D, Drolet BA, Frieden IJ, Haggstrom AN. The “Biker Glove” Pattern of Segmental Infantile Hemangiomas on the Hands and Feet. J Am Acad Dermatol 2014 Sep;71(3):542-7.
6. Haggstrom AN, Frieden IJ. Patterns of vascular birthmarks: questions and clues. Br J Dermatol. 2014 Oct;171(4):693-4.
7. Chamlin SL, Mancini AJ, Lai JS, Beaumont JL, Cella D, Adams D, Drolet B, Baselga E, Frieden IJ, Garzon M, Holland K, Horii KA, Lucky AW, McCuaig C, Metry D, Morel KD, Newell BD, Nopper AJ, Powell J, Siegel D, Haggstrom AN. Development and Validation of a Quality-of-Life Instrument for Infantile Hemangiomas. J Invest Dermatol. 2015 Jun;135(6):1533-9.

**C. Research Support**

5RC1AR058767-02 Haggstrom (PI) 09/29/09- 08/31/13(NCE)

NIH/NCI

Severity Scale and Quality of Life Instrument for Infantile Hemangiomas

The grant funds the formation of a multi-institutional, multidisciplinary formal infrastructure, the Hemangioma Investigator Group Research Core (HIG-RC) that has its administrative center at Indiana University. The HIG-RC developed and validated a hemangioma-specific severity scale (HSS) and a health-related quality-of-life instrument (IH-QoL). These tools are being used in additional clinical trials.

R34AR060881Drolet (PI) 04/01/11- 03/31/12

Safety and Efficacy of Combination Therapy of EffortSteroids and Propranolol vs Propranolol Alone for the Treatment of Complicated Infantile Hemangiomas

The grant funds were used to design a randomized-controlled clinical trial using systemic therapy for treatment of complicated infantile hemangiomas using standardized inclusion criteria. This trial was suspended when beta-blockers became first-line therapy for infantile hemangiomas.

5U19AI1070448-05 Kaplan (PI) 07/01/06- 06/30/11

NIH/NIAID

Pathogenesis of Atopic Dermatitis

Atopic dermatitis (AD) is a chronic recurring atopic disease that is affected by genetic and environmental factors. Epigenetic predisposition to disease in the target organ is unknown. Experiments in this application will define differences in epigenetic modifications of genes using DNA isolated from control and non-lesion atopic dermatitis patient skin biopsy samples.

Prospective Study of Hemangiomas of Infancy (PI) 2002-2006

Funding sources: Dermatology Foundation, American Skin Association, Society of Pediatric Dermatology

In 2006 and 2007, the clinical characteristic, complications and treatment rate for this large cohort of infants with hemangiomas was reported.

NIH R13 grant AR052663-01 with funds from the NIAMS and the Office of Rare Diseases (Co-PI) 2005

Multidisciplinary Scientific Workshop held in Bethesda Maryland designed to discuss current knowledge and future research initiatives for high-risk infantile hemangiomas. The proceedings were published in Pediatric Dermatology in September 2005.