

STATE BOARD OF OPTOMETRY

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834 P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course Approval Checklist

Title:
Provider Name:
☑Completed ApplicationOpen to all Optometrists?☑Yes☐NoMaintain Record Agreement?☑Yes☐No
☑ Correct Application Fee
☑ Detailed Course Summary
☑ Detailed Course Outline
☑ PowerPoint and/or other Presentation Materials
☑Advertising (optional)
☑License Verification for Each Course Instructor Disciplinary History? ☐Yes ☑No



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Form CE-01, Rev. 2/16

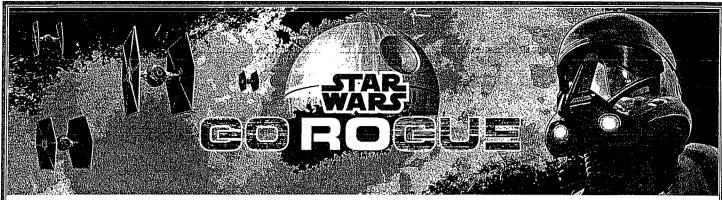
CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule and topical outline of the subject matter. Applications must be submitted 45 days prior to the course presentation date.

	·		
Please type or print clearly.			
Course Title STAIR WARS: GO ROBUE	Course Presentation Date		
· .	7:45 AM - 11:35 AM		
Return Jeppardy	12/118/20116		
Provider Name Coasal Vision Melical Group			
have some	Alian ala		
<u>Gina) Vald-emar</u> (First) (Last) (Middle)			
Provider Mailing Address	(ividue)		
Street Jah S-Main St. City Ovange State CA zip 92880			
Provider Email Address ging Valdemar @ Coastal-Vision & com			
Will the proposed course be open to all California licensed optometrists? YES □ NO			
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation?			
Course Instruc	tor Information		
Please provide the information below and attach the curriculu	m vitae for each instructor or lecturer involved in the course.		
If there are more instructors in the course, please provide the Instructor Name	requested information on a separate sheet of paper.		
- Vincent Hay	·		
(First) (La	est) (Middle)		
License Number 16092	License Type		
	Email Address		
I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.			
and on any accompanying attachments submitted			
	11-3-16		
Signature of Course Provider	Date		



IN A TIME OF CELEBRATION, A GROUP OF UNLIKELY HEROES BAND TOGETHER ON A MISSION TO LEARN MORE ABOUT OPTOMETRY, THEIR CHOSEN WEAPON.



WHEN:

Sunday, December 18th
Registration opens at 6:45am
7:45am-11:35am (4-hour CE followed by the movie)

WHERE:

AMC Downtown Disney Downtown Disney District 1565 Disneyland Drive Anaheim, CA 92802

Hyperdrive of Toys

Bring any new, unwrapped toy, to benefit Toys for Tots, and receive a movie ticket for you and a guest for Rogue One: A Star Wars Story. Movie to follow CE. Additional tickets available for purchase.



Downtown Disney Parking: First 2 hours are free; additional 2 hours free with AMC validation (Disneyland parking lots may be available for all day parking prices; parking is responsibility of attendee)

For registration information please visit our Affiliate Portal: coastalvisionmedical.com/site/ces.htm

ACEMINA

6:45 am	Check-in (pastries and coffee provided)		
7:45 am	Welcome - Opening Re	marks	
7:50 am	Lisa Garbutt, MD	Symfony and Symfony Toric: The Best of Both Galaxies	
8:15 am	Jennifer Wu, MD	Corneal Crosslinking "The Lightsaber for Corneal Ectasia"	
8:40 am	Raj Rathod, MD	Retina One: A Story of Systemic Discovery	
9:05 am	Dan Tran, MD	Combining Laser Corneal Refractive Surgery and Intraocular Lens Technology - The Force Is Strong	
9:30 am	Break	•	
9:55 am	Vincent Hau, MD	Retina JeopardyFrom a Galaxy, Far, Far Away	
10:20 am	Betsy Nguyen, MD	MIGS Episode III: Cypass Micro-Stent, A New Hope	
₃10:45 am	Madhu Agarwal, MD	Eye Rebel: Waging War on Orbital Disease	
The age of terms	Dan Tran, MD		
′ 11:10 am	Lisa Garbutt, MD	Dagua Diagnasia. Ossa Busa sutationa	
	Betsy Nguyen, MD	Rogue Diagnosis: Case Presentations	
	Jennifer Wu, MD		
11:35 am	Conclusion		
11:45 am	Movie: Rogue One: A St	ar Wars Story	
	_	· ·	

^{*}CE and movie ticket registration is based on first-come, first-served basis. Seating is limited.



November 5, 2016

State Board of Optometry 2450 Del Paso Road, Ste. 105 Sacramento, CA 95834

RE: Late submission of CE course approval; Star Wars: Go Rogue Symposium-Symfony and Symfony Toric; The Best of Both Galaxies, Corneal Crosslinking "The Lightsaber for Corneal Ectasia", Retina One: A Story of Systemic Discovery, Combining Laser Refractive Surgery and Intraocular Lens Technology-The force is strong, Retina Jeopardy, MIGS Episode III: Cypass Micro-Stent, A New Hope, Eye Rebel: Waging War on Orbital Disease, Rogue Diagnosis: Case Presentations.

Dear Practice and Education committee,

I am writing this letter in regards to late submission for the multi-course symposium titled "Star Wars; Go Rogue" scheduled for presentation on 12/18/16. We are just shy of the 45 day submission request, and wanted to include a letter for late submission with our CE approval application.

We continue to work diligently to get all required items to the board needed for CE approval in a timely manner. Due to multiple speakers at the upcoming CE, we had difficulty obtaining all the lectures to meet the submission requirement timeline and would appreciation your consideration of our continuing education approval request.

Please feel free to reach out to us with any other questions. We look forward to continued relations with the State Board of Optometry and the practice and education committee.

Sincerely.

Gina Valdemar

Affiliate/Kelations and Education Director

Coastal Vision Medical Group

gipavaldemar@coastal-vision.com

Star Wars: Go Rogue 4 hour CE

Course Title: Eye Rebel: Retina Jeopardy

Course Presentation date: 12/18/2016

Speaker: Vincent Hau, MD

Target Audience: This lecture is intended for optometrist seeking continuing

education

Course Description:

This lecture provides the attendees with an interactive review of Retinal Pathology, disease manifestations, dystrophies, fundus photos and more. Course is intended to help attendees' diagnosis, manage and help determine need for treatment.

CE Credit: .50 CE Units

1

2 Retina Jeopardy

3 Pathology:

\$100 Question

This fundus photo in an 85 y/o male comes in for a 2^{nd} opinion after being treated for wet AMD with "over a dozen shots" and a sudden loss of vision OS.

4 Eye Anatomy:

\$100 Answer

What is a RPE tear?

5 Pathology:

\$200 Question

A 23 y/o myopic Caucasian male with some mild visual blurring of the left eye.

6 Pathology:

\$200 Answer

What is a staphyloma with myopic degeneration?

7 Pathology:

\$300 Question

A 30 y/o Hispanic male w/ mild glare and slight visual blurring X 1 year known keratoconus & negative family hx— except GM with glaucoma 20/30 OD and 20/20 OS w/ nl IOPS

8 Pathology:

\$300 Answer

What is Adult Vitelliform Dystrophy?

9 Pathology:

\$400 Question

A 31 y/o Asian male with known Behcet's Disease (Vasculitic Syndrome) presents with decreased vision OU (20/30 OD and 20/50 OS), nl anterior segment but abnormal fundus findings with vitreous haze OU.

10 Pathology:

\$400 Answer

What is Central Serous Choroidopathy?

11 Pathology:

\$500 Question

12 Pathology:

\$500 Answer

What is Retina Dystrophy?

13 Pop Culture:

\$100 Question

According to Steve Jobs, this type of display means "high resolution" and has an improvement in contrast by this much.

14 Pop Culture:

\$100 Answer

What is Apple's "Retina Display" with an improvement in contrast by 4 over the previous generation iPhone?

15 Pop Culture:

\$200 Question

The name of this movie and eye condition.

16 Pop Culture:

\$200 Answer

What is "Nacho Libre" and intraocular foreign body or open globe OD?

17 Pop Culture:

\$300 Question

Name of this song and artist.

18 Pop Culture:

\$300 Answer

What is "Brown Eyed Girl" by Van Morrison?

19 Pop Culture:

\$400 Question

This was described as "rimmed with fire, but was itself glazed, yellow as a cat's, watchful and intent, and the black slit of its pupil opened on a pit, a window into nothing" in this series of books.

20 Pop Culture:

\$400 Answer

What is the "Eye of Sauron"?

21 Pop Culture:

\$500 Question

The name of this Music Group and Song:

22 Pop Culture:

\$500 Answer

What is "Black Eyed Peas" and "I Gotta Feeling"?

23 Retina Pathology II

\$100 Question

A 17 y/o female about to start college with an incidental retina lesion OD on routine CTLs exam. Completely asymptomatic and never noted before

Va sc: 20/70, Ph 20/25 OD; 20/30, Ph 20/20 OS

Ta: 15 OD; 12 OS

Pupils: Normal OU, No APD

Motility: Full OU VF: CF Full OU SLF: Normal OU

24 Retina Pathology II:

\$100 Answer

What is a choroidal melanoma?

25 Retina Pathology II:

\$200 Question

15 y/o female with rapidly decreasing vision OU over last year

Va sc: 20/150 OD; 20/150 OS

Ta: 12 OD; 10 OS Pupils: No APD Motility: Full OU VF: CF Full OU SLE: Normal OU

DFF:

26 Retina Pathology II:

\$200 Answer

What is Stargardt's Disease?

27 Retina Pathology II: \$300 Question

The name of this device:

28 Retina Pathology II:

\$300 Answer

What is the iScience iTrack catheter?

29 Retina Pathology II:

\$400 Question

30 y/o female referred for abnormal optic nerves and migraines

Va sc: 20/20 OD; 20/20 OS

Ta: 16 OD; 14 OS

Pupils: Normal OU, No APD

Motility: Full OU VF: CF Full OU

SLE: Unremarkable OU

DFE:

30 Retina Pathology II:

\$400 Answer

What is Optic Nerve Head Drusen?

Retina Pathology II:

\$500 Question

A 47 yr-old man with imperfect VA OS all of his life.

OD wnl and 20/20. OS pinholes to 20/50.

IOP WNL OU

VF WNL OU

SLE WNL OU (mild cataracts OU)

Full neurologic workup negative.

DFE:

32 Retina Pathology II:

\$500 Answer

What is Wyburn-Mason Disease?

33 Retina Anatomy: \$100 Ouestion

The area of the macula comprised of entirely cones and used for color vision and is responsible for the highest visual acuity.

34 Retina Anatomy:

\$100 Answer

What is the fovea?

35 Retina Anatomy:

\$200 Question

The layer of the retina responsible for vitamin A metabolism, outer blood-retina barrier, phagocytosis of photoreceptor outer segments, absorption of light and heat exchange.

36 Retina Anatomy:

\$200 Answer

What is the Retina Pigment Epithelium?

37 Retina Anatomy:

\$300 Question

The volume of vitreous in the typical eye.

38 Retina Anatomy:

\$300 Answer

What is 4 milliliters?

39 Retina Anatomy:

\$400 Question

The Anatomical Definition of the Macula and the Histological Definition of the Macula.

40 Retina Anatomy:

\$400 Answer

What is the area of the retina between the temporal vascular arcades and the region with more than 1 layer of ganglion cell nuclei?

41 Retina Anatomy:

\$500 Question

The layers of the retina.

42 Retina Anatomy:

\$500 Answer

What is the ILM, NFL, Ganglion, Inner Plexiform, Inner Nuclear, Outer Plexiform, Outer Nuclear, Photoreceptors, RPE?

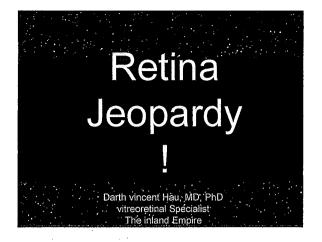
43 FINAL ROUND Question

The total number of Retina Institute of California office locations.

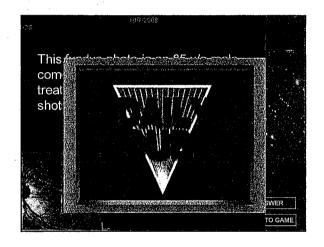
44 FINAL ROUND Answer

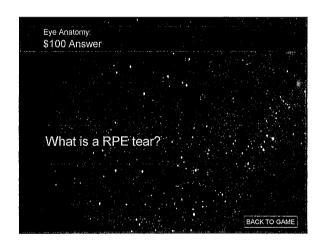
What is 16?

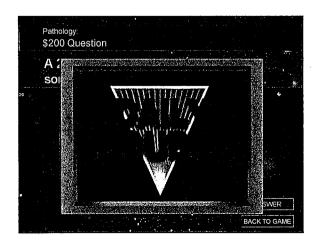
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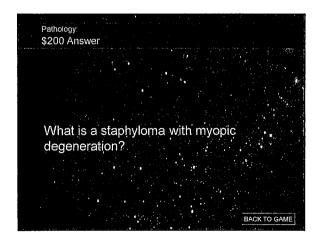


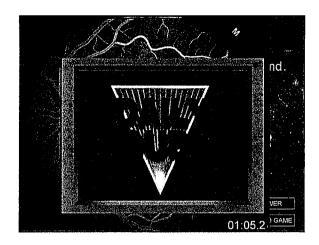
Retina Pathology I	Pop Culture	Retina Pathology II	Retina Anatomy	
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	
\$200	\$200	\$200	<u>\$200</u>	
\$300	\$300	\$300	\$300	
<u>\$400</u>	\$400	\$400	\$400	
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	\$500	

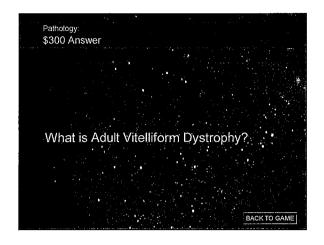


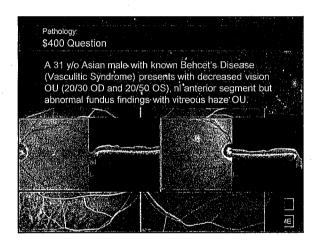


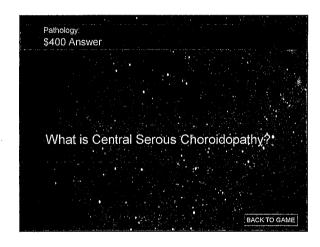


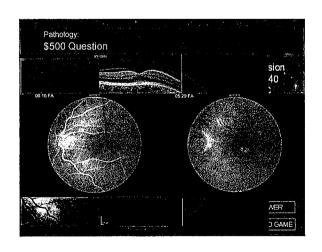


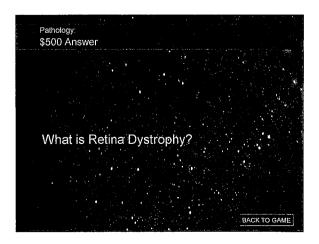


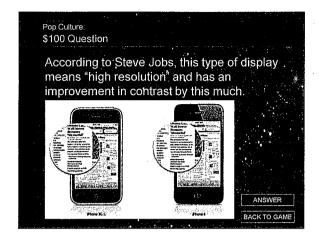


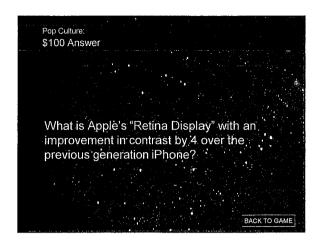


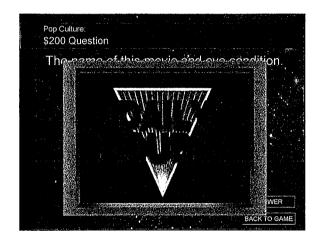


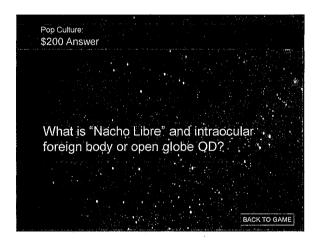


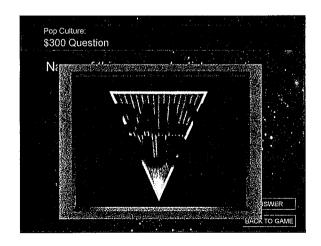




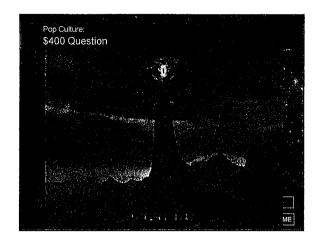


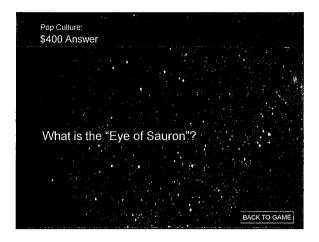


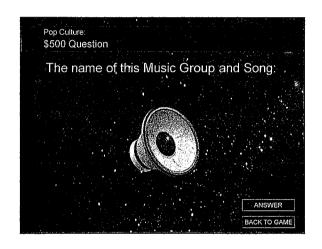




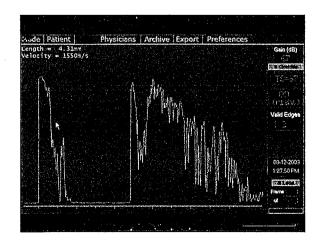


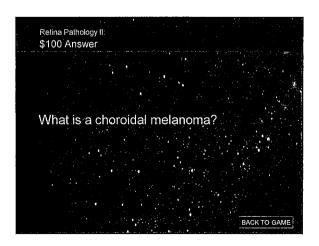


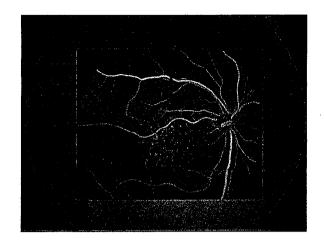


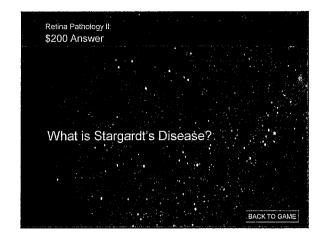




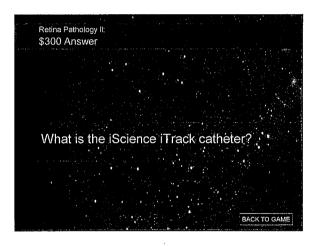


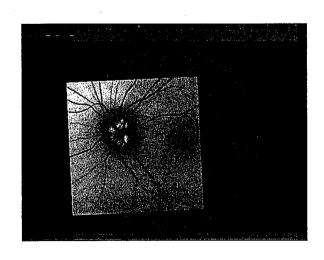


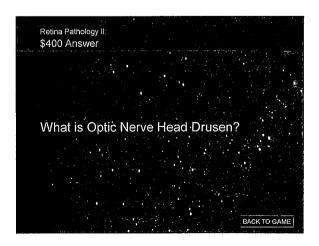


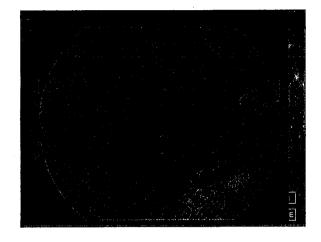


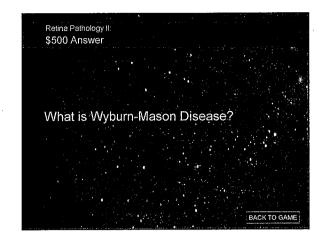


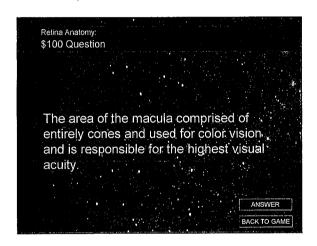


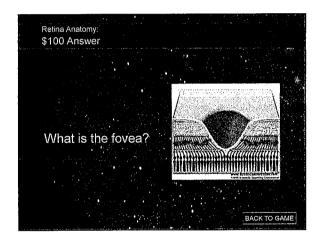


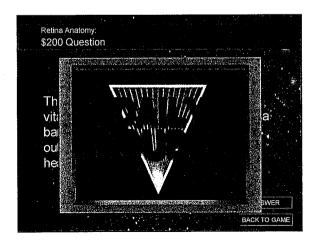


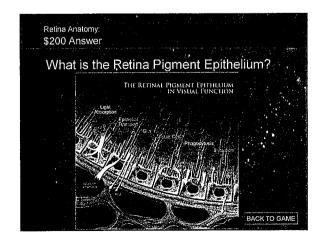


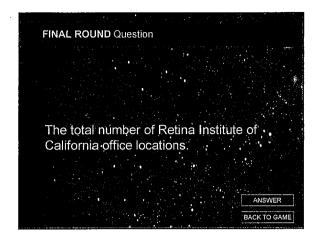


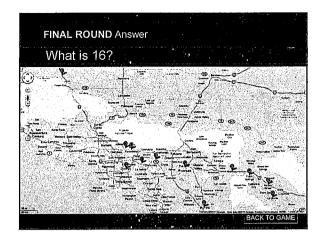


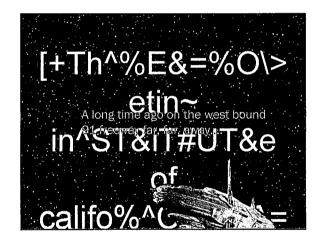


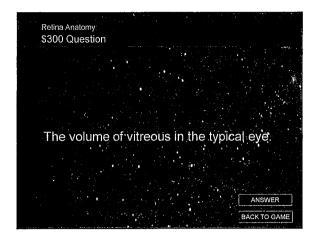




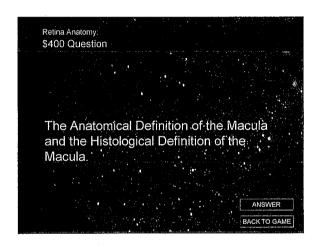


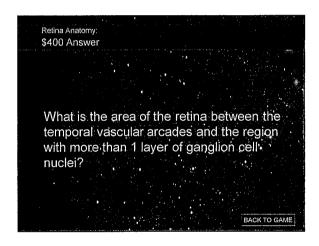


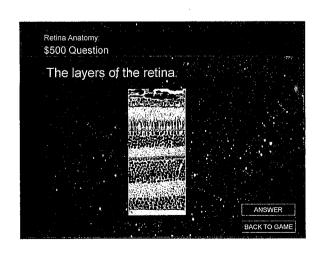














PHONE (520) 661-1021 · E-MAIL VINCENT.S. HAU@GMAIL.COM · LINKEDIN: VINCENT HAU Vincent S. Hau, M.D., Ph.D.

OBJECTIVE

A stimulating and challenging environment where I can apply my vitreoretinal surgical training and research interests.

WORK

6/2013 - Present Hospital Based Practice

Kaiser Permanente Riverside Board Certified and California Medical Licensed Vitreoretinal Specialist and Surgeon Director of Education

Helped rebuild retina service. Developed a staff educational program and regular interdepartmental meetings with optometry. Serve on the Innovations and Eye Technology Committees. Responsible for development of an implantable microtelescope team and helping establish approval of the ARGUS II retinal prosthesis device for the Southern California Permanente Group. Active in assessing current utilization patterns of retina pharmaceutics to provide future guidance to the region. Started a quarterly retina case conference meeting. Developing a clinical research program.

Clinical Studies Initiated:

Primary Investigator, Phase 3 Trial Study for DARPIN – an intravitreal anti-vascular endothelial growth factor for exudative age-related macular degeneration. Allergan. Under site review. 2015

Primary Investigator, Diabetic Retinopathy Clinical Research Network. Under site review. 2015

8/2011 - 6/2013 Private Practice

Retina Institute of California Board Certified and California Medical Licensed Vitreoretinal Specialist and Surgeon

Provide medical and surgical retina care to patients while supervising and building 3 new offices. Developed the referral base of this new region. Exceeded growth expectations, making this region profitable within the first few months. Awarded "Rookie of the Year" for outstanding contributions and growth to the practice. Served as the only non-partner on the Executive Committee. Responsible for the establishment of retirement and health care benefits for over 100 employees. Chaired the recruitment committee leading to hiring 4 new physicians. Led the practice in most number of lectures given to our referral base and ranked among the top for most new patients.

Presented original research: oral presentation American Society of Retina Specialists 2012, poster presentation American Academy of Ophthalmology 2012.

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TOUCHTION		·
7/2009 – 7/2011	Fellowship	Vitreoretinal Surgery. Includes uveitis, retinopathy of prematurity and ocular tumor exposure at one of the largest retina practices in the country (18 attendings and 13 satellite clinics). Texas Retina Associates, Dallas, Texas
7/2006 — 6/2009	Residency	Ophthalmology. John A. Moran Eye Center, University of Utah Salt Lake City, Utah Chief Resident 7/2008 - 6/2009
6/2005 — 6/2006	Internship	Preliminary Internal Medicine. University of Utah Hospitals and Clinics, Salt Lake City, Utah
7/1998 - 8/2005	MD	University of Arizona College of Medicine, Tucson, Arizona
5/1997 – 5/2005	PhD	Major: Pharmacology; Minor: Neuroscience Dissertation Title: "Blood Brain Barrier Changes Induced by λ-Carrageenan Inflammatory Pain" University of Arizona College of Medicine, Tucson, Arizona
7/1993 — 5/1997	BS	Major: Biochemistry; Minor: Biology, Physics & Chemistry Honors, Magna Cum Laude, Phi Beta Kappa University of Arizona College of Arts and Sciences Tucson, Arizona

SCHOLASTIC HONORS

Ophthalmology Residency, University of Utah John A. Moran Eye Center, Salt Lake City, Utah.

- Presenter, Association of University Professors of Ophthalmology/Research to Prevent Blindness Resident and Fellow Research Forum, 2009
- Pacific Coast Oto-Ophthalmological Society Conference Resident Research Symposium 1st Place Best Presentation Award, 2008
- Pacific Coast Oto-Ophthalmological Society Conference Travel Grant Award, 2008
- Association for Research in Vision and Ophthalmology National Eye Institute Travel Grant Award, 2008
- John A. Moran Eye Center Resident Speaker of the Year, 2007 and 2008
- Heed Ophthalmic Foundation Resident and Faculty Retreat, 2007

M.D./Ph.D., University of Arizona College of Medicine, Tucson, Arizona

- The University of Arizona MD/PhD Committee Fellowship, 1998-2005
- The University of Arizona MD/PhD Excellence Award, 2005
- The University of Arizona Excellence in Research Award, 2005
- Achievement Reward for College Scientists Foundation Fellowship, 2002-2004
- American Medical Association Foundation Leadership Award, 2001
- American Federation of Medical Research (AFMR) Travel Grant, 2002, 2000, 1999
- The University of Arizona Graduate and Professional Student Council Graduate Student Leadership Award, 2001
- The University of Arizona College of Medicine Commitment to Underserved People Service Award, 2000
- The University of Arizona College of Medicine John F. Myers II Medical Student Research Award, 1999
- The University of Arizona Outstanding Graduate Student Leadership Award, 1999

B.S., University of Arizona, Tucson, Arizona

- Magna Cum Laude, Honors, Phi Beta Kappa Graduate
- The University of Arizona Robert L. Nugent Outstanding Senior Award (Top Graduate of the Entire 1997 Graduating Class), 1997
- The University of Arizona Outstanding Biochemistry Senior Award, 1997
- National Institutes of Health, National Institute of Allergy & Infectious Diseases Introduction To Biomedical Research Program, 1997
- Gateway, Inc. Dynamic Duo Community Service Award Nominee, 1997
- Undergraduate Research Grant, The University of Arizona Honors Center, 1995

RESEARCH EXPERIENCE

- 2015 Present: Primary Investigator, Currently under site review to be a clinical phase 3 trial study site for Allergan's DARPIN, an investigational drug for exudative age-related macular degeneration. Also, under site review to be a trial site for the Diabetic Retinopathy Clinical Research Network an investigator initiated network of researchers sponsored by the National Eye Institute.
- Summer 2009 Summer 2011: Fellowship Research, Retina Foundation of the Southwest, Dallas, TX.
 Sponsored by Dr. Karl Csaky, T. Boone Pickens Chair in Macular Degeneration and Director of the Sybil B. Harrington Molecular Ophthalmology Laboratory and Dr. David Callanan, Texas Retina Associates, Arlington, TX.
- Summer 2007 Summer 2009: Resident Research, Department of Ophthalmology, University of Utah, Salt Lake City, UT. Sponsored by Dr. Albert Vitale, Assoc. Professor of Ophthalmology and Visual Sciences
- Spring 2006 Fall 2008: Resident Research, Department of Ophthalmology, University of Utah, Salt Lake City, UT. Sponsored by Dr. Kang Zhang, Assoc. Professor of Ophthalmology and Visual Sciences, Director of Division of Ophthalmic Genetics
- Fall 1997 Spring 2005: Graduate Research Assistant, Department of Pharmacology and Toxicology, The University of Arizona, Tucson, AZ
- Summer 1999, 1998: Medical Student Research Assistant, NIH Medical Student Research Program, The University of Arizona, Tucson, AZ
- Summer 1997: Research Intern, Student Training Research Program, National Cancer Institute, National Institutes of Health, Bethesda, MD. Sponsored by Dr. Terry W. Moody, Chief of Experimental Biochemistry.
- Fall 1993 Spring 1997: Undergraduate Research Assistant, Undergraduate Biology Research Program, Department of Pharmacology and Toxicology, The University of Arizona, Tucson, AZ
- Fall 1992 Summer 1993: High School Research Assistant, Department of Pharmacology and Toxicology, The University of Arizona, Tucson, AZ
- Summer 1992: High School Research Assistant, NIH Minority High School Student Research Apprentice Program, The University of Arizona, Tucson, AZ

ACADEMIC ACTIVITIES

Teaching

Community

- Moderator, American Society of Retina Specialists Annual Meeting Macula Pucker Section 2015
- Founder/Course Instructor/Speaker ASRS Fellows-in-Training Lecture Series 2012, 2013, 2014
 - o Real World Retina 101: Maximizing the Retinal Fellowship Experience
 - o Real World Retina 101: Contract Negotiations and Finances
 - o Real World Retina 101: How to Find a Job
- Coordinator AAO Annual Meeting 1st Annual Speed Networking Event 2012
- Instructor AAO Annual Meeting Use of Smartphones in the Ophthalmic Practice 2011
- Coordinator AAO Retina Fellows Fluorescein Conference 2010
- Coordinator Annual ARVO Retina Fellows Meeting 2009, 2010, 2011, 2012
- Founder/Coordinator, Salt Lake City-Wide Retina Case Series Conference (Quarterly) 2008-2009

University of Utah

- Course 7600: Preceptorship in Ophthalmology: Clinical Chief Resident Surgery Instructor, 2008 2009
- Medical Student Sophomore Career Day 2006, 2007, 2008

University of Arizona

- Course Developer, Surgery/Interdepartmental Medicine 800A Research Distinction Track
 -Established "Research Distinction" honor for graduating seniors at U. of Arizona
- Elective Developer/Coordinator, "Understanding Medical Research as a Future Physician"
- Lecturer, Neuropharmacology 653 2003
- Teaching Assistant, Medical Pharmacology 801 2000-2001

Invited Speaker

- Kaiser Permanente Optometry Annual Meeting 2016
- Kaiser Permanente Riverside Diabetic Nursing Education Program 2015
- Kaiser Permanente Riverside Operating Room Staff Education Series 2014, 2015
- Kaiser Permanente Annual Southern California Region Retina Specialists Meeting -2014, 2015
- ASRS Annual Meeting 2012 Retina Night Panelist
- ARVO Retina Fellows Dinner 2009, 2010, 2011, 2012
- The University of Utah John A. Moran Eye Center Education Committee Lecture 2009
- The University of Utah John A. Moran Eye Center Visually Impaired People (VIP) Winter Meeting -2008
- The University of Utah John A. Moran Eye Center International Advisory Committee Retreat 2008
- The University of Utah John A. Moran Eye Center Fundraiser's Day 2008
- NIH Science Education Partnership Award "Questions, Questioning & Questioners" AZ Statewide Conference, Summer 2002, 2004
- AAMC Summer Medical Education Program (University of Arizona) "A Future in Health Care" Seminar, 2004

EXTRACURRICULAR ACTIVITIES

Professional Organizations and Positions

- Co-Chair, American Society of Retina Specialists Young Physicians Section, 2014-2016
- Committee Member, American Society of Retina Specialists Practice Management Sect, 2015-Present
- Founder, American Society of Retina Specialists Fellows-in-Training Section, 2011-2015
- Board Member, Asian Pacific Islander American Health Forum, 2003-2009

Member of Fundraising Committee

Member of Governance Committee

Member of Health Policy Committee

- Advisory Board Member, National Asian Pacific American Medical Student Association, 2001-Present
- President, National Asian Pacific American Medical Student Association, 2001-2002
- Membership Vice-President, National Asian Pacific American Medical Student Association, 2000-2001
- Region VIII (Southwest) Director, National Asian Pacific American Medical Student Association, 1998-1999
- President and Founder, Asian Pacific American Medical Student Association Arizona Chapter, 1998-1999
- President and Founder, Medical Research Student Association, 1999-2000
- Co-director, Fourth Annual Asian Students In Action National Leadership Conference, 1996

Community

- Visually Impaired Runner Guide Team with a Vision Boston Marathon 2015
- Resident Director/Founder, Ophthalmology Clinic, 4th Street Healthcare for the Homeless Clinic, Salt Lake City, UT, 2006-2009
- Resident Volunteer, Friends and Family Homeless Ophthalmology Clinic, Park City, UT, 2007-2009
- Coordinator (Vaccines), Commitment to Underserved People Refugee Clinic, 1999
- Coordinator, Med Set Decision Making (program to help troubled teens), 1999

- Board Member, Pan Asian Community Alliance, 1995-2005
- Secretary, Chinese American Citizens Alliance Arizona Chapter, 1997-2005
- Board Member, Asian American Faculty, Staff & Alumni Association, 1995-1999

Other Achievements

Public Speaking:

•Master of Ceremonies, Pan Asian Community Alliance Lunar New Year Celebration, '04, '99

Graphic Design:

- •Artwork Featured on Cover of Pan Asian Community Alliance New Year Program, 1998-2003
- •Logo Design U. of AZ Science Connection Program; Tucson Chinese Association; Asian Students In Action Conference ('98, '00)

Running:

- •Have run 13 Marathons Boston Marathon Qualified 4 times and ran 2014, 2015
- •Run for the Retina 5K at the American Society of Retina Specialists Annual Conference 2008, 2010, 2012, 2014—1st place Overall
- •Bausch & Lomb Run/Walk for Vision 5K 2007, 2010, 2012 Top ten finisher overall 2nd place Age Division
- •Founder, The University of Arizona College of Medicine Running Club

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Society of Retina Specialists
- Association for Research in Vision and Ophthalmology
- American Academy of Ophthalmology
- American Medical Association
- Asian Pacific American Medical Student Association

PUBLICATIONS

- Hau, V.S., London, N., Dalton, M.: The Treatment Paradigm for the Implantable Miniature Telescope. Ophthalmology and Therapy. *In submission*.
- Hau, V.S.: Effect of aflibercept in recalcitrant wet age-related macular degeneration eyes to bevacizumab and ranibizumab. *Being Submitted*.
- *Yanni, S.E., *Hau, V.S., Csaky, K.G., Avery, R.: Serum and vitreous levels of free bevacizumab following intravitreal injection in humans. 2013. Being Submitted. *Note first two listed as first authors
- Kurup, S.K., Oliver, A., Emanuelli A., **Hau, V.S.,** Callanan, D.: Low-dose methotrexate for the treatment of chronic central serous chorioretinopathy: a retrospective analysis. *Retina*. 32(10): 2096-101, 2012.
- *Yang, X., *Zabriskie, N.A., *Hau, V.S., Chen, H., Tong, H., Gibbs, D., Farhi, P., Katz, B.J., Luo, L., Pearson, E., Goldsmith, J.A., Ma, X., Kaminoh, Y., Chen, Y., Yu, B., Zeng, J., Zhang, K., Yang, Z.: Genetic Association of LOXL1 gene variants and exfoliation glaucoma in a Utah cohort. *Cell Cycle* 7(4):521-4, 2008. *Note all three listed as first authors
- Yang, Z., Constantine, R., Francis, P.J., Kleinman, M.E., Tan, P.L., Stratton, C., Gibbs, D., Tong, Z., Chen, H., Yang, X., Davey, L., Wang, C., Walkins, S., Zeng, J., Harmon, J., Buehler, J., Schwager, A., Pearson, E., Patel, S., Hau, V.S., Kaminoh, Y., Chen, Y., Yu, B., Zabriskie, N.A., Bernstein, P.S., Cho, W., Hinton, D.R., Klein, M.L., Hamon, S.C., Simmons, E., Campochiaro, B., Sunness, J.S., Campochiaro, P., Genetics of AMD Study Group, Jorde, L., Parmigiani, G., Zack, D.J., Katsanis, N., Ambati, J., Zhang, K.: A common TLR3 variant confers protection from geographic atrophy in age-related macular degeneration. New England Journal of Medicine 359(14):1456-63, 2008.
- Tong, Z., Yang, Z., Patel, S., Chen, H., Gibbs, D., Yang, X., Hau, V.S., Kaminoh, Y., Harmon, J., Pearson, E., Buehler, J., Chen, Y., Yu, B., Tinkham, NH., Zabriskie, NA., Zeng, J., Luo, L., Sun, J.K., Prakash, M., Hamam, R.N., Tonna, S., Constantine, R., Ronquillo, C.C., Sadda, S., Avery, R.L., Brand, J.M., London, N., Anduze, A.L., King, G.L., Bernstein, P.S., Watkins, S.; Genetics of Diabetes and Diabetic Complication Study Group, Jorde, L.B., Li, D.Y., Aiello, L.P., Pollak, M.R., Zhang, K.: Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications. *Proc Natl Acad Sci USA*. 105(19):6998-7003, 2008.
- Gibbs, D., Yang, Z., Constantine, R., Ma, X., Camp, N.J., Yang, X., Chen, H., Jorgenson, A., **Hau, V.**, Dewan, A., Zeng, J., Harmon, J., Buehler, J., Brand, J.M., Hoh, J., Cameron, D.J., Dixit, M., Tong, Z., Zhang, K.: Further mapping of 10q26 supports strong association of HTRA1 polymorphisms with agerelated macular degeneration. *Vision Res.* **48**(5):685-689, 2008.
- Chen, H., Yang, Z., Gibbs, D., Yang, X., Hau, V., Zhao, P., Ma, X., Zeng, J., Luo, L., Pearson, E., Constantine, R., Kaminoh, Y., Harmon, J., Tong, Z., Stratton, C.A., Cameron, D.J., Tang, S., Zhang, K. Association of HTRA1 polymorphism and bilaterality in advanced age-related macular degeneration. *Vision Res.* 48(5):690-694, 2008.
- Hau, V.S., Huber, J., Campos, C. and Davis, T.P.: Effect of λ -carrageenan induced inflammatory pain on codeine blood-brain barrier permeability and antinociception. *Brain Research* 1018(2): 257-64, 2004.
- Landen, J.W., Hau, V., Wang, M., Davis, T., Ciliax, B., Wainer, B.H., Van Meir, E.G., Glass, J.D., Joshi, H.C., and Archer, D.R.: Noscapine crosses the blood-brain barrier and inhibits glioblastoma growth. *Clin Cancer Res.* 10(15): 5187-201, 2004.
- Hau, V.S., Campos, C., Huber, J., Lipkowski, A., Misicka, A. and Davis, T.P.: The effect of guanidino modification and proline substitution on the *in vitro* stability and blood-brain barrier permeability of endomorphin II. J. Pharm. Sci. 91(10): 2140-9, 2002.

- Huber, J.D., Hau, V.S., Campos, C.R., Egleton, R.D., and Davis, T.P.: Functional and structural analysis of blood-brain barrier tight junctions during a 72 hr exposure to λ-carrageenan induced inflammatory pain. *Am J Physiol Heart Circ Physiol* 283 (4): H1531-7, 2002.
- Huber, J.D., Hau, V.S., Mark, K.S., Brown, R.C., Campos, C.R. and Davis, T.P.: Viability of in vitro and in vivo microvascular endothelial cells to direct exposure of formalin, λ-carrageenan, and complete Freund's adjuvant. *Eur J Pharmacol.* **450** (3): 297-304, 2002.
- Zia, H., Leyton, J., Casibang, M., Hau, V.S., Brenneman, D., Fridkin, M., Gozes, I., and Moody, T.W.: (N-stearyl, norleucine17) VIP hybrid inhibits the growth of pancreatic cancer cell lines. *Life Sci.* 66 (5): 379-387, 2000.
- Kline, J.P., Bell, I.R., Schwartz, G.E., Hau, V.S., and Davis, T.P.: Repressive and defensive coping yles predict resting plasma endorphin levels in the elderly. *Biol Psychol.* 49 (3): 295-302, 1998.
- Gillespie, T.J., Erenberg, A., Kim, S., Dong, J., Taylor, J., Hau, V.S., and Davis, T.P.: Novel somatostatin analogues for the treatment of acromegaly and cancer exhibit improved *in vivo* stability and distribution. *J. Pharmacol. Exp. Ther.* 285 (1): 95-104, 1998.
- Williams, S.A., Abbruscato, T.J., Hau, V.S., Hruby, V.J., and Davis, T.P.: Structure activity relationships of a series of [D-Ala²] deltorphin I and II analogues: *in vitro* blood-brain barrier permeability and stability. *J. Pharmacol. Exp. Ther.* **281** (2): 817-825, 1997.
- Bell, I.R., Schwartz, G.E., Bootzin, R.R., Hau, V.S., and Davis, T.P.: Elevation of plasma beta-endorphin levels of shy elderly in response to novel laboratory experiences. *Behavioral Medicine*. **22** (4): 168-173, 1997.
- Greene, D.L., Hau, V.S., Abbruscato, T.J., Weber, S.J., Bartosz-Bechowski, H., Gillespie, T.J., Hruby, V.J., and Davis, T.P.: Enkephalin analog pro-drugs: an assessment of *in vitro* conversion, enzyme cleavage characterization, and blood-brain barrier permeability. *J. Pharmacol. Exp. Ther.* 277 (3): 1366-1375, 1996.
- Bell, I.R., Schwartz, G.E., Bootzin, R.R., Hau, V.S., and Davis, T.P.: Time-dependent sensitization of plasma beta-endorphin in community elderly with self-reported environmental chemical odor intolerance. *Biological Psychiatry*. 40 (2): 134-143, 1996.

ABSTRACTS

- Hau, V.S.: The Effect of Eylea (Aflibercept) in Exudative AMD Patients Recalcitrant to Ranibizumab and Bevacizumab. American Academy of Ophthalmology 2012
- Hau, V.S.: VEGF Trap-Eye (Aflibercept) Effectiveness in Wet AMD Patients Recalcitrant to Ranibizumab and Bevacizumab. American Society of Retina Specialists Conference, 2012
- Hau, V.S., Horn, R., Vitale, A.: Combined Pars Plana Vitrectomy and Phacoemulsification in Patients With Chronic Uveitis. Association for Research in Vision and Ophthalmology Conference, 2009.
- Hau, V.S., Zhang, K.: Association of the erythropoietin gene in severe diabetic eye and kidney complications. *American Society of Retina Specialists Conference*, 2008.
- Hau, V.S., Ma, X., Zabriskie, N.A., Chen, H., Tong, Z., Gibbs, D., Katz, B.J., Goldsmith, J., Zhang, K., Yang, Z.: Genetic Association of LOXL1 Gene Variants and Exfoliation Glaucoma in a Utah Cohort. Association for Research in Vision and Ophthalmology Conference, 2008.
- Wong, G.C., Chen, H., Hau, V.S., Yang, Z., Gibbs, D., Yang, X., Zhao, P., Ma, X., Zeng, J., Zhang, K.: Association of HTRA1 Polymorphism and Bilaterality in Advanced Age-Related Macular Degeneration. Association for Research in Vision and Ophthalmology Conference, 2008.
- Hau, V.S., Tong, Z., Cameron, J., Gibbs, D., Brinton, E., Aiello, L.P., Avery, R., Harmon, J., Brinton, G., and Zhang, K.: Association of VEGF Gene Polymorphisms with Proliferative Diabetic Retinopathy in Type 2 Diabetics. Association for Research in Vision and Ophthalmology Conference, 2007.
- Hau, V.S., Carter, B., Dahl, M., Dong, L., Howes, K., Albertine, K., and Zhang, K.: A novel animal model for the study of retinopathy of prematurity. Association for Research in Vision and Ophthalmology Conference, 2006.
- Mylode, T., Pedersen, A., Reynolds, S., Bernas, M., Hau, V.S., Preciado, S., Wagner, G., Witte, C. and Witte, M.: Summer Institute on Medical Ignorance: Impact of the University of Arizona NIH-Minority/Disadvantaged High School Student Research Program. *Journal of Investigative Medicine*, 50(2): 166A, 2002.
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- Huber, J.D., Witt, K.A., **Hau**, V.S., Egleton, R.D. and Davis, T.P.: Inflammatory pain alters blood-brain barrier permeability and tight junctional protein expression. 4th International Cerebral Vascular Biology Conference, 2001.
- Gillespie, T.J., Erenberg, A., Kim, S., Dong, J., Taylor, J.E., Hau, V.S., and Davis, T.P.: Novel somatostatin analogues for the treatment of acromegaly and cancer exhibit improved *in vivo* stability and distribution. *Society for Neuroscience Abstracts*, 1997.
- Williams, S.A., Abbruscato, T.J., Hau, V.S., Gillespie, T.J., Zsigo, J., Hruby, V.J., and Davis, T.P.: In vitro blood-brain barrier permeability and stability of a series of [D-Ala²] deltorphin I and II analogues. Society for Neuroscience Abstracts, 22 (1): 53, 1996.
- Greene, D.L., Hau, V.S., Weber, S.J., Abbruscato, T.J., Hruby, V.J., and Davis, T.P.: Metabolic conversion and *in vitro* blood-brain barrier permeability of an enkephalin analog pro-drug. *Society for Neuroscience Abstracts*, **20** (2): 1148, 1994.

Greene, D.L., Hau, V.S., Brownson, E.A., Hruby, V.J., and Davis, T.P.: An enkephalin analog pro-drug: *in vitro* conversion, enzyme cleavage characterization, and blood-brain barrier penetration. *American Federation for Clinical Research Abstracts*, 42 (2): 259A, 1994.

Greene, D.L., Hau, V.S., Brownson, E.A., Hruby, V.J., and Davis, T.P.: An enkephalin analog pro-drug: in vitro conversion, enzyme cleavage characterization, and blood-brain barrier penetration. Western Federation for Clinical Research Abstracts, 1994.

Greene, D.L., **Hau**, V.S., Hruby, V.J., and Davis, T.P.: Enzymatic conversion of pro-drug forms of [D-Pen², D-Pen⁵] enkephalin and [D-Pen², L-Cys⁵] enkephalin. *Society for Neuroscience Abstracts*, **19**: 1365, 1993.

Greene, D.L., **Hau**, V.S., Hruby, V.J., and Davis, T.P.: *In vitro* conversion of pro-drug forms of [D-Pen², D-Pen⁵] enkephalin and [D-Pen², L-Cys⁵] enkephalin. *American Federation for Clinical Research Abstracts*, **41** (2): 1993.

Greene, D.L., **Hau, V.S.**, Hruby, V.J., and Davis, T.P.: *In vitro* conversion of pro-drug forms of [D-Pen², D-Pen⁵] enkephalin and [D-Pen², L-Cys⁵] enkephalin. *Western Federation for Clinical Research Abstracts*, 1993.

NATIONAL AND STATE CONFERENCE PRESENTATIONS

- Hau, V.S.: Intraocular Microtelescope and Argus II Technology at Kaiser Permanente. Annual Kaiser Permanente Southern California Retinal Specialists Meeting 2015
- Hau, V.S.: The Effect of Jetrea (Ocriplasmin) in Southern California Permanente Group Macular Hole and Vireomacular Traction Patients. *Annual Kaiser Permanente Southern California Retinal Specialists Meeting 2014*
- Hau, V.S.: The Effect of Eylea (Aflibercept) in Exudative AMD Patients Recalcitrant to Ranibizumab and Bevacizumab. *American Academy of Ophthalmology 2012*
- Hau, V.S.: VEGF Trap-Eye (Aflibercept) Effectiveness in Wet AMD Patients Recalcitrant to Ranibizumab and Bevacizumab. *American Society of Retina Specialists Conference, 2012*
- Oliver, A., **Hau**, **V.S.**, Kurup, S.: Utility of Methotrexate in Chronic Central Serous Retinopathy: a Retrospective Analysis. *American Society of Retina Specialists Conference, 2010.*
- Hau, V.S., Horn, R., Vitale, A.: Combined Pars Plana Vitrectomy and Phacoemulsification in Patients With Chronic Uveitis. Association for Research in Vision and Ophthalmology Conference, 2009.
- Hau, V.S., Zhang, K.: Association of the erythropoietin gene in severe diabetic eye and kidney complications. Association of University Professors of Ophthalmology Meeting, 2009. (AUPO/RPB Resident and Fellow Research Symposium Travel Grant)
- Hau, V.S., Tong, Z., Yang, Z., Chen, H., Yang, X., Sadda, S., Aiello, L.P., Zhang, K.: Promoter Polymorphism of the Erythropoietin Gene in Severe Diabetic Eye and Kidney Complications. *American Society of Retina Specialists Conference*, 2008.
- Hau, V.S., Zhang, K.: Genetic Association of LOXL1 Gene Variants and Exfoliation Glaucoma in a Utah Cohort. Pacific Coast Oto-Ophthalmology Conference, 2008. (1st Place Resident Symposium Award)
- Hau, V.S., Ma, X., Zabriskie, N.A., Chen, H., Tong, Z., Gibbs, D., Katz, B.J., Goldsmith, J., Zhang, K., Yang, Z.: Genetic Association of LOXL1 Gene Variants and Exfoliation Glaucoma in a Utah Cohort.

 Association for Research in Vision and Ophthalmology Conference, 2008. (NEI Travel Grant)
- Hau, V.S., Ma, X., Zabriskie, N.A., Chen, H., Tong, Z., Gibbs, D., Katz, B.J., Goldsmith, J., Zhang, K., Yang, Z.: LOXL1 Gene Variants in Pseudoexfoliation Glaucoma of a Utah Cohort. *Utah Ophthalmology Society Residents Day*, 2008. (2008 Resident Speaker of the Year Award)
- Hau, V.S.: VEGF Gene Polymorphisms found in Type 2 Proliferative Diabetic Retinopathy. *Utah Ophthalmology Society Residents Day*, 2007. (2007 Resident Speaker of the Year Award)
- Hau, V.S., Tong, Z., Cameron, J., Gibbs, D., Brinton, E., Aiello, L.P., Avery, R., Harmon, J., Brinton, G., and Zhang, K.: Association of VEGF Gene Polymorphisms with Proliferative Diabetic Retinopathy in Type 2 Diabetics. Association for Research in Vision and Ophthalmology Conference, 2007.
- Hau, V.S.: "Anti-VEGFs: What's all the hype?" Utah Ophthalmology Society Ophthalmic Technical Staff Education Program, 2007
- Hau, V.S., Carter, B., Dahl, M., Dong, L., Howes, K., Albertine, K., and Zhang, K.: A novel animal model for the study of retinopathy of prematurity. Association for Research in Vision and Ophthalmology Conference, 2006.
- Hau, V.S., Huber, J., Campos, C., and Davis, T.P.: Blood-brain barrier changes induced by λ-carrageenan inflammatory pain. Western Federation of Medical Research Conference, 2003. (Travel Grant)

- Pain Alters Functional and Molecular Properties of the Blood-Brain Barrier. Society for Neuroscience Conference, 2001.
- Hau, V.S., Campos, C., Lipkowski, A., Hruby, V.J. and Davis, T.P.: Cationic endomorphins: Assessment of in vitro stability and blood-to-CNS delivery. *Journal of Investigative Medicine*, 48 (2): 190A, 2000. *American Federation of Medical Research Conference*, 2000. (Travel Grant)
- Hau, V.S., Campos, C., Lipkowski, A., Hruby, V.J. and Davis, T.P.: The stability and blood-to-central nervous system delivery of cationic endomorphins: A series of highly potent & mu-selective opioid receptor agonists. *Journal of Investigative Medicine*, 48 (1): 26A, 2000. Western Federation of Medical Research Conference, 2000. (Travel Grant)
- Hau, V.S., Campos, C., Lipkowski, A., Hruby, V.J. and Davis, T.P.: Endothelial cell uptake, blood-brain barrier permeability and in vitro stability of cationic endomorphins. *Journal of Investigative Medicine*, 47 (4): 102A, 1999. *American Federation of Medical Research Conference*, 1999. (Travel Grant)
- Hau, V.S., Campos, C., Hosohata, K., Lipkowski, A., Yamamura, H.I., Hruby, V.J. and Davis, T.P.: Guanidino cationization effects on the blood-brain barrier permeability, in vitro stability and receptor binding of endomorphins. Journal of Investigative Medicine, 47 (2): 34A, 1999. Western Federation of Medical Research Conference, 1999. (Travel Grant)
- Hau, V.S., Lipkowski, A., Hruby, V.J., Huxtable, R.J. and Davis, T.P.: Effect of cationization on the *in vitro* stability and blood-brain barrier permeability of endomorphins. *Society for Neuroscience Abstracts*, **24 (2)**: 1806, 1998. *Society for Neuroscience Conference*, 1998.
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- Hau, V.S., and Davis, T.P.: Blood-brain barrier permeability of conotoxins. *The Spirit of Inquiry Undergraduate Research Conference*, 1996. (Honor's College Grant)