

Gefei Alex Zhu, M.D.

Work: Redwood City, CA 94063
Home: San Mateo, CA 94401

(203) 936 - 9435
gefei.alex.zhu@gmail.com
orcid.org/0000-0002-0255-2664

TRAINING	Chief Resident, <i>Dept. of Dermatology, Stanford University, Stanford, CA</i>	2019 - 2020
	Residency, <i>Dept. of Dermatology, Stanford University, Stanford, CA</i>	2017 - 2020
	Internship, <i>Dept. of Internal Medicine, Kaiser Permanente Hospital, San Francisco, CA</i>	2016 - 2017
	M.D., <i>Stanford University School of Medicine, Stanford, CA</i>	2016
	Postbaccalaureate IRTA Fellow, <i>National Heart, Lung, Blood Institute, National Institutes of Health, Bethesda, MD</i>	2012
	B.S. in Chemistry (Intensive), <i>magna cum laude, Yale University, New Haven, CT</i>	2011
TEACHING EXPERIENCE	Resident Teacher <i>Department of Dermatology, Stanford University School of Medicine, Stanford, CA</i> Course Director: Silvina Pugliese, M.D. – “Skin Lab” (HHD 223)	2019
	Teaching Fellow <i>Department of Immunology, Stanford University School of Medicine, Stanford, CA</i> Course Director: Sara Michie, M.D. – “Immunology in Health and Disease” (IMM 205)	2013 - 2014
	Teaching Fellow <i>Department of Chemistry, Yale University, New Haven, CT</i> Course Director: Christine DiMeglio, Ph.D – “Organic Chemistry I” (CHEM S220) – “Organic Chemistry II” (CHEM S222) – “Lab for Organic Chemistry I” (CHEM S221) – “Lab for Organic Chemistry II” (CHEM S223)	2011
SERVICE	Dermatology Free Clinic Resident Liaison (2018 - 2019) <i>Cardinal Free Clinics, Stanford University School of Medicine, Stanford, CA</i>	
	President (2014 - 2015), Steering Committee Member (2012 - 2016) <i>Dermatology Interest Group, Stanford University School of Medicine, Stanford, CA</i>	
	Dermatology Free Clinic Manager (2013 - 2014) <i>Arbor Free Clinic, Stanford University School of Medicine, Stanford, CA</i>	
MEMBERSHIPS	<ul style="list-style-type: none">– American Academy of Dermatology, 2017 - Present– Society for Investigational Dermatology, 2016 - Present– American Society for Laser Medicine and Surgery, 2016 - Present– Santa Clara County Medical Association, 2012 - Present	

- American Medical Association, 2012 - Present
- California Medical Association, 2012 - Present

**HONORS &
AWARDS**

1. Fundamentals of Laparoscopic Surgery Medical Student Award, 2015
Department of Surgery, Stanford University School of Medicine, Stanford, CA
2. Stanford Medical Scholars Fellowship, 2013
Stanford University School of Medicine, Stanford, CA
3. Yale-Howard Hughes Medical Institute Future Scientists Fellowship, 2010
Yale University, New Haven, CT
4. Richter Summer Fellowship, 2010
Yale University, New Haven, CT
5. Mellon Forum Grant, 2009
Yale University, New Haven, CT
6. Saint Anthony Educational Foundation Grant, 2009
Saint Anthony Hall, Chapel Hill, NC
7. Frank M. Patterson Prize, 2009
Department of Political Science, Yale University, New Haven, CT
8. Commendation from Fathers Behind Bars, 2008
Correctional Training Facility, Soledad, CA

**PEER-REVIEWED
PUBLICATIONS**

1. Zhu, G.A.; Chen, J.K.; Chiou, A.; Ko, J.; Honari, G. Development of new regional dermatoses in patients on dupilumab for atopic dermatitis: a retrospective cohort study. *JAMA Dermatol.*, 2019, accepted.
2. Zhu, G.A.; Chen, J.K.; Chiou, A.; Ko, J.; Honari, G. Repeat patch testing in allergic contact dermatitis improved on dupilumab. *JAAD Case Rep.*, 2019, accepted.
3. Lee, C.K.M.; Li, S.; Tran, D.C.; Zhu, G.A.; Kwong, B.Y.; Chang, A.L.S. **Response to the Letter to the Editor entitled, Use of immortal time within survival analysis: JAAD-D-18-01157.** *J Am Acad Dermatol.*, 2019, 80(1): e19-20.
4. Lee, C.K.M.; Li, S.; Tran, D.C.; Zhu, G.A.; Kwong, B.Y.; Chang, A.L.S. **Characterization of dermatitis after PD-1/PD-L1 inhibitor therapy and association with multiple oncologic outcomes: a retrospective case-control study.** *J Am Acad Dermatol.*, 2018, 79(6): 1047-52.
5. Tran, D.C.; Moffat, A.; Brotherton, R.; Pague, A.; Zhu, G.A.; Chang, A.L.S. **An exploratory open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas.** *J Am Acad Dermatol.*, 2018, 78(5): 1011-3.
6. Chang, J.; Tran, D.C.; Zhu, G.A.; Li, R.; Whitson, R.; Kim Y.H.; Gupta, A.; Afshari, A.; Antes, T.; Spitale R.C.; Chang, A.L.S. **Initial in vitro functional characterization of serum exosomal microRNAs from patients with metastatic basal cell carcinoma.** *Br J Dermatol.*, 2017, 177(5): e187-e190.
7. Chang, J.; Zhu, G.A.; Cheung, C.; Li, S.; Kim, J.; Chang, A.L.S. **Association between Programmed Death Ligand 1 expression in patients with basal cell carcinomas and the number of treatment modalities.** *JAMA Dermatol.*, 2017, 153(4): 285-90.
8. Zhu, G.A.; Raber, I.; Li, S.; Sakshuwong, S.; Li, A.; Tan, C.Z.; Chang, A.L.S. **Estimation of individual cumulative ultraviolet exposure using a geographically-adjusted, openly-accessible tool.** *BMC Dermatol.*, 2016, 16: 1-12.

9. Zhu, G.A.; Lira, R.; Colevas, A.D. **Discordance in routine second opinion pathology review of head and neck oncology specimens: A single-center five year retrospective review.** *Oral Oncol.*, 2016, 53: 36-41.
10. Gahl R.F.; Tekle E.; Zhu, G.A.; Taraska, J.W.; Tjandra, N. **Acquiring snapshots of the orientation of trans-membrane protein domains using a hybrid FRET pair.** *FEBS Lett.*, 2015, 589(8): 885-9.
11. Zhu, G.A.; Chang, A.L.S. **Overall and progression-free survival of stage 4 cutaneous squamous cell carcinoma at a single large referral center.** *J Am Acad Dermatol.*, 2015, 73(1): 165-6.
12. Zhu, G.A.; Birnbaum, N; Carroll-Scott A.; Evans L.; Fiellin L.E.; Wang E.A. **Gender differences in HIV risk behaviors in individuals recently released from prison: results of a pilot study.** *Health & Justice*, 2015, 3:6.
13. Zhu, G.A.; Sundram, U.; Chang, A.L.S. **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, 150(9): 170-3.
14. Zhu, G.A.; Danial, C.; Liu, A.; Li, S.; Chang, A.L.S. **Overall and progression-free survival in metastatic basosquamous cancer: a case series.** *J Am Acad Dermatol.*, 2014, 70(6): 1145-6.
15. Zhu, G.A.; Li, A.; Chang, A.L.S. **Patient with Gorlin syndrome and metastatic basal cell carcinoma refractory to Smoothened inhibitors.** *JAMA Dermatol.*, 2014, 150(8): 877-9.
16. Zhu, G.A.; Chen, A; Chang, A.L.S. **Oral Smoothened inhibitor for advanced basal cell carcinoma of the hand: a case report.** *HAND*, 2014, 9(1): 127-8.
17. Wang, E.A.; Zhu, G.A.; Evans L.; Carroll-Scott A.; Desai R.; Fiellin L.E. **A pilot study examining food insecurity and HIV risk behaviors among individuals recently released from prison.** *AIDS Educ Prev.*, 2013, 25(2): 112-23.
18. Liu, J.; Liu, M.Y.; Fu, L.; Zhu, G.A.; Yan, E.C.Y. **Chemical kinetic analysis of thermal decay of rhodopsin reveals unusual energetics of thermal isomerization and hydrolysis of Schiff base.** *J Biol Chem.*, 2011, 286(44): 38408-16.
19. Serebryany, E.; Zhu, G.A.; Yan, E.C.Y. **Artificial membrane-like environments for in vitro studies of purified G-protein coupled receptors.** *Biochim Biophys Acta*, 2012, 1818(2): 225-233.

BOOKS

1. Zhu, G.A. In: Le T, Deol M, Reyes G, eds. **First Aid for the USMLE Step 2 CK, 10th ed.** New York, NY; McGraw-Hill Education; 2019.
2. Zhu, G.A.; Serebryany, E.; Yan, E.C.Y. **G Protein-Coupled Receptors.** *Encyclopedia of Supramolecular Chemistry*, J. Steed and J. Atwood, eds.; Taylor and Francis, NY; 2012.

ORAL PRESENTATIONS

1. Lee, C.; Li, S.; Tran, D.; Zhu, G.A.; Kim, J.; Kwong, B.; Chang, A.L.S. **Association of tumor response to PD-1/PD-L1 immunotherapy and type of dermatitis that arises after the immunotherapy** (Oral Presentation) Clinical Research: Patient Outcomes Research Minisymposium, International Investigative Dermatology 2018 Annual Meeting, Orlando, FL. May 16-19, 2018.
2. Lee, C.; Li, S.; Zhu, G.A.; Kim, J.; Tran, D.; Kwong, B.; Chang, A.L.S. **Reaction patterns of dermatitis arising during PD-1/PD-L1 inhibitor therapy and association with tumor response** (Oral Presentation) ePoster Session, American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.

3. Tran, D.; Zhu, G.A.; Chang, A.L.S. **An exploratory open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas** (Oral Presentation) ePoster Session, American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.
4. Guan, L.; Zhu, G.A.; Li, S.; Montana, M.; Kern, D.; Knaggs, H.; Chang, A.L.S. **Differences in Skin Aging Characteristics in Women of East Asian versus European Descent Residing in the Same Geographic Location** (Oral Presentation) ePoster Session, American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.
5. Chang, J.; Zhu, G.A.; Li, S.; Kim, J.; Chang, A.L.S. **PDL1 and CD8 expression in basal cell carcinoma correlates with response to Hedgehog inhibitor therapy.** (Oral Presentation) Clinical Research II: Pathophysiology and Therapeutics Minisymposium, Society for Investigative Dermatology 2016 Annual Meeting, Scottsdale, AZ. May 11-14, 2016.
6. Zhu, G.A.; Chang, J.; Li, R.; Antes, T.; Spitale, R.; Chang, A.L.S. **Identification of metastasis-associated exosomal microRNAs in basal cell carcinoma** (Oral Presentation) Carcinogenesis and Cancer Genetics Minisymposium, Society for Investigative Dermatology 2016 Annual Meeting, Scottsdale, AZ. May 11-14, 2016.
7. Zhu, G.A. **Stevens-Johnson Syndrome with an Unclear Trigger.** Stanford Dermatology Grand Rounds, Redwood City, CA. September 10, 2015.
8. Raber, I.; Zhu, G.A.; Li, S.; Sakshuwong, S.; Li, A.; Tan, C.Z.; Chang, A.L.S. **Geographically adjusted tool to estimate self-reported cumulative ultraviolet exposure and associated skin cancer risk.** (Oral Presentation) Research in Cutaneous Surgery Minisymposium, Society for Investigative Dermatology 2015 Annual Meeting, Atlanta, GA. May 6-9, 2015.
9. Zhu, G.A.; Danial, C.; Li, A.; Li, S.; Chang, A.L.S. **Similarity in Survival in Stage 4 Basosquamous Carcinoma and Stage 4 Squamous Cell Carcinoma: Results of a Single-Site Retrospective Cohort Study.** (Oral Presentation) Research in Cutaneous Surgery Minisymposium, Society for Investigative Dermatology 2014 Annual Meeting, Albuquerque, NM. May 7-10, 2014.
10. Zhu, G.A.; Li, A.; Chang, A.L.S. **Metastatic BCC Refractory to Smoothened Inhibitors in the Setting of Gorlin Syndrome.** Stanford Dermatology Grand Rounds, Redwood City, CA. July 18, 2013.
11. Wang E.A.; Zhu G.A.; Evans L.; Carroll-Scott A.; Desai R.; Fiellin L.E. **Lifting the Food Stamp Ban: Mitigating HIV/AIDS Risk Behaviors Among Individuals Recently Released from Prison.** (Oral Presentation) Peer Session, 5th Academic and Health Policy Conference on Correctional Health, Atlanta, GA. March 22-23, 2012.

ABSTRACTS

1. Guan, L.; Zhu, G.A.; Li, S.; Montana, M.; Kern, D.; Knaggs, H.E.; Chang, A.L.S. **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location** *J Invest Dermatol.*, 2018, 138(5): S216, Abstract No. 1272.
2. Lee, C.; Li, S.; Tran, D.; Zhu, G.A.; Kim, J.; Kwong, B.; Chang, A.L.S. **Association of tumor response to PD-1/PD-L1 immunotherapy and type of dermatitis that arises after the immunotherapy** *J Invest Dermatol.*, 2018, 138(5): S90, Abstract No. 526.

3. Lee, C.; Li, S.; Zhu, G.A.; Kim, J.; Tran, D.; Kwong, B.; Chang, A.L.S. **Reaction patterns of dermatitis arising during PD-1/PD-L1 inhibitor therapy and association with tumor response** *J Am Acad Dermatol.*, 2018, 79(3): AB239, Abstract No. 7603.
4. Tran, D.; Zhu, G.A.; Chang, A.L.S. **An exploratory open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas** *J Am Acad Dermatol.*, 2018, 79(3): AB38, Abstract No. 7374.
5. Guan, L.; Zhu, G.A.; Li, S.; Montana, M.; Kern, D.; Knaggs, H.; Chang, A.L.S. **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location** *J Am Acad Dermatol.*, 2018, 79(3): AB108, Abstract No. 6872.
6. Zhu, G.A.; Tran, D.C.; Chang, J.; Li, R.; Spitale, R.; Chang, A.L.S. **Initial in vitro functional characterization of serum exosomal microRNAs from patients with metastatic basal cell carcinoma.** *J Invest Dermatol.*, 2017, 137(5): S16, Abstract No. 95.
7. Tran, D.C.; Zhu, G.A.; Chang, A.L.S. **An open-label investigator initiated study to evaluate the efficacy and safety of sonidegib and buparlisib in advanced basal cell carcinomas (NCT02303041).** *J Invest Dermatol.*, 2017, 137(5): S58, Abstract No. 339.
8. Chang, J.; Zhu, G.A.; Li, R.; Antes, T.; Spitale, R.; Chang, A.L.S. **Identification of metastasis-associated microRNAs in basal cell carcinoma.** *J Am Acad Dermatol.*, 2016, 74(5): AB199, Abstract No. 3640.
9. Guerrero, A.M.; Zhu, G.A.; Kwong, B. **Retrospective analysis of inpatient dermatology consultations for cancer patients.** *J Invest Dermatol.*, 2016, 136(5): S28, Abstract No. 155.
10. Chang, J.; Zhu, G.A.; Li, S.; Kim, J.; Chang, A.L.S. **PDL1 and CD8 expression in basal cell carcinoma correlates with response to Hedgehog inhibitor therapy.** *J Invest Dermatol.*, 2016, 136(5): S44, Abstract No. 250.
11. Chang, J.; Zhu, G.A.; Li, R.; Antes, T.; Spitale, R.; Chang, A.L.S. **Identification of metastasis-associated exosomal microRNAs in basal cell carcinoma** *J Invest Dermatol.*, 2016, 136(5): S18, Abstract No. 102.
12. Zhu, G.A.; Antes, T.; Spitale, R.; Chang, A.L.S. **Serum exosomes from metastatic basal cell carcinoma patients confer increased metabolic activity in cultured primary human fibroblasts.** *J Invest Dermatol.*, 2015, 135: S22, Abstract No. 130.
13. Raber, I.; Zhu, G.A.; Li, S.; Sakshuwong, S.; Li, A.; Tan, C.Z.; Chang, A.L.S. **Geographically adjusted tool to estimate self-reported cumulative ultraviolet exposure and associated skin cancer risk.** *J Invest Dermatol.*, 2015, 134: S40, Abstract No. 234.
14. Zhu, G.A.; Lira, R.; Colevas, A.D. **Review of Pathologic Diagnosis in Head and Neck Cancer Patients: Why Do It?** *J Clin Oncol.*, 2014, 32: 15s, Abstract No. 6032.
15. Zhu, G.A.; Danial, C.; Li, A.; Li, S.; Chang, A.L.S. **Similarity in Survival in Stage 4 Basosquamous Carcinoma and Stage 4 Squamous Cell Carcinoma: Results of a Single-Site Retrospective Cohort Study.** *J Invest Dermatol.*, 2014, 134: S90-107, Abstract No. 514.
16. Zhu, G.A.; Li, A.; Chang, A.L.S. **Development of a geographically-adjusted tool to more accurately estimate self-reported cumulative ultraviolet exposure: A two-part study.** *J Invest Dermatol.*, 2014, 134: S49-60, Abstract No. 313.

17. Zhu, G.A.; Taraska, J.W. **Syntaxin 1A-MUNC18a complexes probed by Dipicrylamine FRET.** *Mol Biol Cell*, 2012, 23: 24, 4663, Abstract No. 3606.

POSTER PRESENTATIONS

1. Zhu, G.A.; Barnes, L.; Kwong, B.; Lee, C. **A rapidly evolving facial and dorsal hand rash in a cancer patient** (Poster Presentation) CalDerm 2018 Annual Symposium, Carlsbad, CA. September 14-16, 2018.
2. Guan, L.; Zhu, G.A.; Li, S.; Montana, M.; Kern, D.; Knaggs, H.E.; Chang, A.L.S. **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location** (Poster Presentation) International Investigative Dermatology 2018 Annual Meeting, Orlando, FL. May 16-19, 2018.
3. Lee, C.; Li, S.; Tran, D.; Zhu, G.A.; Kim, J.; Kwong, B.; Chang, A.L.S. **Association of tumor response to PD-1/PD-L1 immunotherapy and type of dermatitis that arises after the immunotherapy** (Poster Presentation) International Investigative Dermatology 2018 Annual Meeting, Orlando, FL. May 16-19, 2018.
4. Lee, C.; Li, S.; Zhu, G.A.; Kim, J.; Tran, D.; Kwong, B.; Chang, A.L.S. **Reaction patterns of dermatitis arising during PD-1/PD-L1 inhibitor therapy and association with tumor response** (Poster Presentation) American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.
5. Tran, D.; Zhu, G.A.; Chang, A.L.S. **An exploratory open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas** (Poster Presentation) American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.
6. Guan, L.; Zhu, G.A.; Li, S.; Montana, M.; Kern, D.; Knaggs, H.; Chang, A.L.S. **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location** (Poster Presentation) American Academy of Dermatology 2018 Annual Meeting, San Diego, CA. February 16-20, 2018.
7. Zhu, G.A.; Tran, D.C.; Chang, J.; Li, R.; Spitale, R.; Chang, A.L.S. **Initial in vitro functional characterization of serum exosomal microRNAs from patients with metastatic basal cell carcinoma.** (Poster Presentation) Society for Investigative Dermatology 2017 Annual Meeting, Portland, OR. April 26-29, 2017.
8. Tran, D.C.; Zhu, G.A.; Chang, A.L.S. **An open-label investigator initiated study to evaluate the efficacy and safety of sonidegib and buparlisib in advanced basal cell carcinomas (NCT02303041).** (Poster Presentation) Society for Investigative Dermatology 2017 Annual Meeting, Portland, OR. April 26-29, 2017.
9. Guerrero, A.M.; Zhu, G.A.; Kwong, B. **Retrospective analysis of inpatient dermatology consultations for cancer patients.** (Poster Presentation) Society for Investigative Dermatology 2016 Annual Meeting, Scottsdale, AZ. May 11-14, 2016.
10. Chang, J.; Zhu, G.A.; Li, S.; Kim, J.; Chang, A.L.S. **PDL1 and CD8 expression in basal cell carcinoma correlates with response to Hedgehog inhibitor therapy.** (Poster Presentation) Society for Investigative Dermatology 2016 Annual Meeting, Scottsdale, AZ. May 11-14, 2016.
11. Chang, J.; Zhu, G.A.; Li, R.; Antes, T.; Spitale, R.; Chang, A.L.S. **Identification of metastasis-associated exosomal microRNAs in basal cell carcinoma** (Poster Presentation) Society for Investigative Dermatology 2016 Annual Meeting, Scottsdale, AZ. May 11-14, 2016.
12. Chang, J.; Zhu, G.A.; Li, R.; Antes, T.; Spitale, R.; Chang, A.L.S. **Identification of metastasis-associated microRNAs in basal cell carcinoma.** (Poster Presentation)

- American Academy of Dermatology 2016 Annual Meeting, Washington D.C. March 4-8, 2016.
13. Zhu, G.A.; Antes, T.; Spitale, R.; Chang, A.L.S. **Serum exosomes from metastatic basal cell carcinoma patients confer increased metabolic activity in cultured primary human fibroblasts.** (Poster Presentation) Society for Investigative Dermatology 2015 Annual Meeting, Atlanta, GA. May 6-9, 2015.
 14. Zhu, G.A.; Lira, R.; Colevas, A.D. **Review of Pathologic Diagnosis in Head and Neck Cancer Patients: Why Do It?** (Poster Highlights Session) American Society for Clinical Oncology 2014 Annual Meeting, Chicago, IL. May 30-June 4, 2014.
 15. Zhu, G.A.; Li, A.; Raber, I.; Chang, A.L.S. **Development of a geographically-adjusted tool to more accurately estimate self-reported cumulative ultraviolet exposure: A two-part study.** (Poster Presentation) Society for Investigative Dermatology 2014 Annual Meeting, Albuquerque, NM. May 7-10, 2014.
 16. Zhu, G.A.; Li, A.; Raber, I.; Chang, A.L.S. **A Useable and Comprehensive Tool to Estimate Cumulative Lifetime UV Exposure (CLUE).** (Poster Presentation) 31st Stanford Medical Student Research Symposium, Stanford, CA. May 1, 2014.
 17. Zhu, G.A.; Li, A.; Raber, I.; Chang, A.L.S. **A Useable and Comprehensive Tool to Estimate Cumulative Lifetime UV Exposure (CLUE).** (Poster Presentation) American Academy of Dermatology 72nd Annual Meeting, Denver, CO. March 21-25, 2014.
 18. Zhu, G.A.; Taraska, J.W. **Syntaxin 1A-MUNC18a complexes probed by Dipicrylamine FRET.** (Poster Presentation) American Society for Cell Biology 2012 Annual Meeting, San Francisco, CA. December 15-19, 2012.
 19. Wang E.A.; Zhu G.A.; Evans L.; Carroll-Scott A.; Desai R.; Fiellin L.E. **Lifting the Food Stamp Ban: Mitigating HIV/AIDS Risk Behaviors Among Individuals Recently Released from Prison.** (Poster Presentation) 11th Community Health Symposium at Stanford Medical School, Stanford, CA. November 8, 2012.
 20. Zhu, G. A.; Liu, J.; Yan, E. C. Y. **Steric and Electronic Effects of a Conserved Threonine Residue in Bovine Rhodopsin.** (Poster Presentation) Yale Engineering and Science Symposium, New Haven, CT. Febrary 19-21, 2011.