

Joanna J. Gell  
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**Personal Information:**

Birth date: August 5, 1982  
Birthplace: Bossier City, Bossier Parish, Louisiana, United States  
Citizenship: United States of America

**Education:**

08/06-05/10 University of Vermont, College of Medicine, Burlington, VT  
Doctor of Medicine  
  
01/01-05/05 University of Vermont, College of Agriculture & Life Science, Burlington, VT  
Bachelor of Science, Major: Biological Science, Minor: Animal Science.

**Postgraduate Education:**

07/13- 06/16 University of California Los Angeles Mattel Children's Hospital  
Pediatric Hematology Oncology Fellow  
  
07/10-06/13 Medical University of South Carolina Children's Hospital  
General Pediatrics Residency

**Licensure and Certifications:**

04/19- present Connecticut Medical Board License #62467  
  
04/17- present American Board of Pediatrics Hematology/Oncology Certification Exam  
Score: 214 (Pass)  
  
10/13- present American Board of Pediatrics General Pediatrics Certification Exam  
Score: 203 (Pass)  
  
08/13-08/19 California Medical Board License #A125907  
  
11/10 United States Medical Licensing Examination, Step 3  
Score: 233 (Pass)  
  
07/10-06/13 South Caroline Limited Medical License # 32871  
  
03/10 United States Medical Licensing Examination, Step 2 Clinical Skills  
Score: Pass  
  
07/09 United States Medical Licensing Examination, Step 2 Clinical Knowledge  
Score: 249 (Pass)  
  
02/08 United States Medical Licensing Examination, Step 1  
Score: 222 (Pass)

### **Professional Memberships:**

09/20- Present	Children's Oncology Group, Germ Cell Tumor Committee Member
12/19- Present	Malignant Germ Cell International Consortium (MaGIC) Member
07/10- Present	The American Society of Pediatric Hematology/Oncology
07/10- Present	American Academy of Pediatrics
07/10- 06/13	South Carolina Chapter of American Academy of Pediatrics

### **Grants and Awards:**

Start date:

Award/Grant:

09/22	Department of Defense Peer Reviewed Cancer Research Program Career Development Award
01/22	CureSearch for Children's Cancer Young Investigator Award in Pediatric Oncology Drug Development
08/18	UCLA Children's Discovery and Innovation Institute Junior Faculty Career Development Grant
07/18	The Pablove Foundation Childhood Cancer Research Seed Grant
07/17	Eli and Edythe Broad Center of Regenerative Medicine and Stem Cell Research at UCLA (BSCRC) Training Program Clinical Fellow
12/16	Child Health Research Career Development Award (Pediatric K12 Program)
06/16	UCLA Children's Discovery and Innovation Institute 3 <sup>rd</sup> Annual Research Symposium Shapiro Award: Second place for third year fellows research abstract/poster presentation
12/15	Child Health Research Career Development Award (Pediatric K12 Program)
07/15	UCLA Tumor Cell Biology Training Program (T32 Grant Award) renewal
07/14	UCLA Tumor Cell Biology Training Program (T32 Grant Award)
06/14	UCLA Children's Discovery and Innovation Institute 1 <sup>st</sup> Annual Research Symposium, Shapiro Award: First place for first year fellows research abstract
06/04	Hughes Endeavors for Life Science Excellence (HELix) Summer research grant
01/04	Hughes Endeavors for Life Science Excellence (HELix) Mini grant (semester research funds)
01/2004	Induction into Mortar Board National College Seniors Honors Society
01/04	Induction into Golden Key National Honor Society

### **Professional experience:**

06/19- present	Connecticut Children's Medical Center, Division of Hematology/Oncology, Department of Pediatrics, University of Connecticut. Assistant Professor.
07/18-05/19	University of California Los Angeles, Division of Hematology/Oncology, Department of Pediatric, David Geffen School of Medicine. In Residency Assistant Professor
07/16-06/18	University of California Los Angeles, Division of Hematology/Oncology, Department of Pediatric, David Geffen School of Medicine. Health Science Clinical Instructor

**Research experience:**

- 06/19-present The Jackson Laboratory for Genomic Medicine. Research Scientist
- 07/16-05/19 Molecular, Cellular, Developmental Biology, University of California Los Angeles. Clark Laboratory, Germ Cell Development/Biology. Post-Doctoral, Physician Scientist
- 07/14-06/16 Molecular, Cellular, Developmental Biology, University of California Los Angeles. Clark Laboratory, Germ Cell Development/Biology. Clinical Fellow
- 06/07-08/07 Environmental Pathology, University of Vermont College of Medicine. Mossman Laboratory, Cell signaling/asbestos cellular injury/mesothelioma. Medical Student Summer Research Project
- 06/05-08/06 Environmental Pathology, University of Vermont College of Medicine. Mossman Laboratory, Cell signaling/asbestos cellular injury/mesothelioma. Research Technician I
- 11/03-06/05 Environmental Pathology, University of Vermont College of Medicine. Mossman Laboratory, Cell signaling/asbestos cellular injury/mesothelioma. Undergraduate Work-study

**Posters and Presentations:**

- 07/19 International Society of Stem Cell Research, Los Angeles, CA  
Poster: Development of an Extended Culture System That Supports Self-Renewal of Human Primordial Germ Cell-Like Cells
- 07/18 Jackson Laboratory of Genetic Medicine Seminar, Farmington, CT  
Presentation: Utilizing Pluripotent stem Cells to Model Human Germ Cell Development and Tumorigenesis
- 06/17 UCLA Children's Discovery and Innovation Institute 4th Annual Symposium, Los Angeles, CA  
Presentation: Interrogating the role of PRDM14 in Human Development and Germ Cell Tumorigenesis
- 06/16 UCLA Children's Discovery and Innovation Institute 3<sup>rd</sup> Annual Symposium, Los Angeles, CA  
Poster: Interrogating the role of PRDM14 in Germ Cell Tumors
- 12/15 UCLA Molecular, Cellular, Developmental Biology Division  
Retreat, Lake Arrowhead, CA  
Poster: Interrogating the role of PRDM14 in Germ Cell Tumor
- 06/15 UCLA Children's Discovery and Innovation Institute 2<sup>nd</sup> Annual Symposium, Los Angeles, CA  
Poster: Interrogating the role of PRDM14 in Germ Cell Tumors
- 05/14 American Society of Pediatric Hematology Oncology 28<sup>th</sup> Annual Conference, Phoenix, AZ  
Poster: Novel Association of Familial Testicular Germ Cell Tumor and Autosomal Dominant Polycystic Kidney Disease with PKD1 Mutation  
Poster: Rare Central Nervous System Involvement Presenting in Two Pediatric Patients with Post-Transplant Lymphoproliferative Disorder Pathology Subtype Plasmablastic Large B-Cell Lymphoma
- 05/14 UCLA/USC/UCSF Tri-Institutional Broad Stem Cell Retreat, Santa Barbara, CA

Poster: Interrogating the Role of PRDM14 in Germ Cell Tumors

- 05/13 Pediatric Grand Rounds, Medical University of South Carolina, Charleston, SC  
Presentation: This is Not A Test! School Based Emergencies
- 11/11 Injury Free Coalition for Kids 16<sup>th</sup> Annual Meeting, Cincinnati, OH  
Poster: Swim Central: A Model for Meeting Street Academy Minnows  
Poster: Implementing Injury Prevention Curriculum/Tools for Local Boot Camp for New Dads
- 07/11 South Carolina Chapter of American Academy of Pediatrics Annual Meeting, Asheville, NC  
Poster/Presentation: Swim Central: A Model for Meeting Street Academy Minnows  
Poster: Postpartum Depression: Implementing Screening and Referrals in an Outpatient Pediatric Clinic

### **Oral Presentations:**

*Development of In-vitro Models of Primordial Germ Cell Transformation into Germ Cell Tumors.* XXI. National Pediatric Cancer Congress. November 26<sup>th</sup>, 2021

*Modeling Human Germ Cell Development and Tumorigenesis with Pluripotent Stem Cells.* University of Connecticut School of Medicine, Pediatric Translational Research Seminar. October 1<sup>st</sup>, 2021.

*Utilizing Human Pluripotent Stem Cells to Model Germ Cell Tumorigenesis.* Children's Oncology Group: Spring Meeting 2021, Germ Cell Tumor Committee. March 25<sup>th</sup>, 2021.

*Utilizing Human Pluripotent Stem Cells to Generate a Model of Germ Cell Tumorigenesis.* Malignant Germ Cell International Consortium (MaGIC) Basic Biology Working Group Monthly Seminar. June 20<sup>th</sup>, 2019. Virtual.

*Utilizing Pluripotent Stem Cells to Evaluate Germ Cell Development and Tumorigenesis.* University of California Stem Cell Club. May 4<sup>th</sup>, 2018, Los Angeles, California.

*Interrogating the Role of PRDM14 in Human Germ Cell Development and Germ Cell Tumorigenesis.* University of California Molecular, Cellular and Developmental Biology Annual Retreat. December 1<sup>st</sup>-3<sup>rd</sup>, 2017, Lake Arrowhead, California.

*Interrogating the Role of PRDM14 in Germ Cell Tumorigenesis.* NIH National Institute of Child Health and Human Development: Child Health Research Career Development Award Program Annual Retreat. October 4<sup>th</sup>-6<sup>th</sup>, 2017, Dallas, Texas.

### **Abstracts:**

**Joanna J Gell**, Wanlu Lui, Yu Tao, Dee Chen, Timothy J Hunt, Grace Bower, Amander T Clark. *Development of an extended culture system that supports self-renewal of Human Primordial Germ Cell-Like Cells.* International Society of Stem Cell Research, June 26-29<sup>th</sup> 2019, Los Angeles, California.

**Joanna J Gell**, Jasmine Zhao, Amander T Clark. *Interrogating the Role of PRDM14 in Human Germ Cell Development and Germ Cell Tumorigenesis.* UCLA Eli and Edyth Broad Center of Regenerative Medicine and Stem Cell Research, 14<sup>th</sup> Annual Stem Cell Symposium, February 2<sup>nd</sup>, 2018, Los Angeles, California.

Maria E. Ramos-Nino, Steve Blumen, Tara Sabo-Attwood, **Joanna Gell** and Brooke T. Mossman. *Hepatocyte Growth Factor mediates growth through the activation of ERK5 in mesothelioma cell lines.* American Association for Cancer Research 2006.

### **Publications:**

Mutsumi Kobayashi, Misato Kobayashi, Junk Odajima, Keiko Shioda Young Sun Hwang, Kotaro Sasaki, Pranam

Chatterjee, Christian Kramme, Richie E Kohman, George M Church, Amanda R Loehr, Robert S Weiss, Harald Juppner, **Joanna J Gell**, Ching C Lau, Toshi Shioda. *Expanding homogeneous culture of human primordial germ cell-like cell maintaining germline features without serum or feeder layers*. Stem Cell Reports, March 2022, 17(3):507-521.

Grace V Hancock, Wanlu Liu, Lior Peretz, Di Chen, **Joanna J Gell**, AJ Collier, Jesse R Zamudio, Katherine Plath, Amander T Clark. *Divergent roles of KLF4 and TFCP2L1 in Naïve Ground State Pluripotency and Human Primordial Germ Cell Development*. Stem Cell Res., August 2021; 55:102493.

**Joanna J Gell**, Wanlu Liu, Enrique Sosa, Alex Chialastri, Grace Hancock, Yu Tao, Sissy E. Wamaitha, Grace Bower, Siddarth S. Day, Amander T. Clark. *An Extended Culture System that Supports Human Primordial Germ Cell-like Cells Survival and Initiation of DNA Methylation Erasure*. Stem Cell Reports, March 2020; 14(3):433-446.

Erica C Pandolfi, Ernesto J Rojas, Enrique Sosa, **Joanna J Gell**, Timothy J Hunt, Sierra Goldsmith, Yuting Fan, Sherman J Silber, Amander T Clark. *Generation of three human induced pluripotent stem cell sublines (MZT04D, MZT04J, MZT04C) for reproductive science research*. Stem Cell Res., October 2019; 40:101576.

Di Chen, Wanlu Liu, Jill Zimmerman, William A. Pastor, Rachel Kim, Linzi Hosohama, Jaime Ho, Marianna Aslanyan, **Joanna J Gell**, Steven E Jacobsen, Amander T Clark. *The TFAP2C-Regulated OCT4 Naïve Enhancer Is Involved in Human Germline Formation*. Cell Reports, December 2018; 25(13):3591-3602.

**Joanna J Gell**, Amander T Clark. *Restoring Fertility with Human Induced Pluripotent Stem Cells: Are we there yet?* Cell Stem Cell in Translation, December 2018; 23(6):777-779.

Jacqueline N Casillas, Roy L Kao, Joshua Macadangdang, Emma Lidington, Melody S Hsu, Hilary Gan, Gavin D Roach, Shivani Upadhyay, Neha G Vaghasla, **Joanna J Gell**, Elizabeth A Van Dyne, Ning Li, Grace Sund, and Theodore B Moore. *Improving Fertility Preservation Discussion for Adolescent & Young Male Oncology Patients*. Oncology Issues Journal, September 2018; 33(5):16-26.

**Joanna J Gell**, Jasmine Zhao, Di Chen, Amander T Clark. *PRDM14 is expressed in germ cell tumors with constitutive overexpression altering germ cell differentiation and proliferation*. Stem Cell Research, March 2018, 27:46-56.

Di Chen, **Joanna J Gell**, Yu Tao, Enrique Sosa, Amander T Clark. *Modeling human infertility with pluripotent stem cells*. Stem Cell Research, May 2017, 21:187-192.

Laurel Truscott, **Joanna Gell**, Vivian Chang, Hane Lee, Samuel Strom, Rex Pilai, Anthony Sisk, Julian Martinez, Martin Anderson, Noah Federman. *Novel Association of Familial Testicular Germ Cell Tumor and Autosomal Dominant Polycystic Kidney Disease with PKD1 Mutation*. Pediatr Blood Cancer, Jan 2017, 64(1):100-102.

Kristina Adachi, Stacy Barron, **Joanna Gell**, Nava Yeganeh. *Index of Suspicion in the Nursery. Case 3: Neonate Presenting with Acute Liver Failure and Shock*. NeoReviews, Mar 2016, 17(3) e170-e172

Astrid Haegens, Trisha F. Barrett, **Joanna Gell**, Arti Shukla, Maximilian MacPherson, Pamela Vacek, Mathew E. Poynter, Kelly J. Butnor, Yvonne M. Janssen-Heininger, Chad Steele and Brooke T. Mossman. *Airway epithelial NFkB activation modulates asbestos-induced inflammation and mucin production in vivo*. J Immunology, February 2007,178 (3): 1800-1808.

Arti Shukla, Karen M. Lounsbury, Trisha F. Barrett, **Joanna J. Gell**, Mercedes Rincon, Kelly J. Butnor, Douglas J. Taatjes, Gerald S. Davis, Pamela Vacek, Keiichi I. Nakayama, Keiko Nakayama, Chad Steele and Brooke T. Mossman. *Asbestos-induced peribronchiolar cell proliferation, cytokine production, and fibrosis are attenuated in lungs of protein kinase C-delta (PKC delta) knockout mice*. American J Pathol, January 2007,170(1):140-151.

**Mentorship:**

- 07/20- current: Mentor for University of Connecticut Medical School, Connecticut Children's, Pediatric Hematology/Oncology Fellow. Second year fellow completing her scholarly activity during her second and third year of fellowship training.
- 01/14- 05/19: Mentor for UCLA undergraduate students. Student is enrolled in research minor with Molecular, Cellular, Developmental Biology.
- 06/15- 07/17: Mentor for high school senior attending Marlborough High School. Student is partaking in the Leonetti/O'Connell Family Honors Research Program. This program is aimed at getting young females involved in research. I mentored two high school seniors, one returned to work with me in the summer of 2018, while on summer break from Yale.