

# T. Spencer Skelton M.D.

## Education

M.D. The University of Texas Health Science Center at Houston, May 2007

B.S. Texas A&M University at College Station, May 2002  
Biomedical Sciences, Magna Cum Laude

## Residency/Fellowship

The University of Texas Health Science Center, Colorectal Clinic of Houston, TX, July 2014-June 2015  
Colon and Rectal Surgery Fellowship

The Methodist Hospital, Houston, TX, July 2007- June 2014  
General Surgery Residency

The Methodist Hospital, Houston, TX, July 2009- June 2011  
Transplant Immunology Fellowship

## Boards and Licensure

Texas Medical Board, Full license, 2010-present

Board Certified in General Surgery, March 2015

Board Certified in Colon and Rectal Surgery, 2016

## Organizations/Memberships

Texas Society of Colon and Rectal Surgeons, 2015-2018  
President-2016-2018

Texas Medical Association, 2014-present

American Society of Colon and Rectal Surgeons, 2013-present  
Society Fellow-2018  
Regional Committee Member

American College of Surgeons, 2007-present

Comal County Medical Society, 2015-present

Houston Surgical Society, 2007-2015

American Society of Transplant Surgeons, 2009-2011

American Medical Student Association, 2003-2007

ACGME Surgical Education Committee, Senior Representative, 2013-2014

## Work Experience

Colorectal Surgery Services, San Antonio, TX, August 2015-present  
Specializing in treatment of disease of the colon, rectum, and anus. Carrying out all aspects of care for patients in the pre, peri, and post operative settings

The Methodist Hospital Research Institute, Department of Immunobiology, Houston, TX, July 2009- June 2011  
Performed research in transplant tolerance induction and mechanisms of chronic rejection in rat heart allografts.

The Methodist Hospital, Department of Transplantation, Houston, TX, July 2009-June 2011  
Procured organs for human abdominal transplantation.

DCI Biologicals, Nashville, TN, June 2002- April 2003  
Worked as an organ donation technician. Harvested human tissue for human tissue transplant and was responsible for processing and fabricating transplantable implants.

Athens Independent School District, Athens, TX, April 2003- June 2003  
Taught third grade through high school as a substitute teacher. Tutored students in life and physical sciences, mathematics, reading and English, and physical education.

### **Certifications**

Intuitive Surgical Da Vinci Robot Advance Course, Atlanta, GA, 2017

Intuitive Surgical Da Vinci Robot Basic Training, Houston, TX. 2014

Fundamentals of Laparoscopic Surgery, Houston, TX. 2013

Ethicon Advanced Laparoscopy in Colon and Rectal Surgery, Cincinnati, OH. 2012

Advanced Cardiovascular Life Support, 2003-present

### **Hospital Affiliations**

North Central Baptist Hospital, San Antonio, TX, 2015-present

North East Baptist Hospital, San Antonio, TX, 2015-present

North East Methodist Hospital, San Antonio, TX, 2015-present

Stone Oak Methodist Hospital, San Antonio, TX, 2015-present

Christus Santa Rosa, New Braunfels, TX, 2017-present

Resolute Health Hospital, New Braunfels, TX, 2017-present

The Methodist Hospital, Houston, TX, 2007-2015

Herman Memorial Hospital, Houston, TX, 2003-2015

St Lukes Episcopal Hospital, Houston, TX, 2014-2015

Texas Womens Hospital, Houston, TX, 2014-2015

The University of Texas MD Anderson, Houston, TX, 2007-2013

### **Publications**

Baker T, Skelton TS, Turner K, Aijazi H. Obtaining a surgical airway. In: Moore LJ, Turner KL, Todd SR, eds. *Common Problems in Acute Care Surgery*, 1<sup>st</sup> ed. New York, NY: Springer; 2013:171-181.

Lee S, Skelton TS, Zheng F, Schwartz KA, Perrier ND, Lee JE, Bassett RL, Ahmed S, Krishnamurthy S, Busaidy NL, Grubbs EG. The biopsy-proven benign thyroid nodule: is long-term follow-up necessary? *J Am Coll Surg*. 2013; 217(1):81-88.

Skelton TS, Tejpal N, Gong Y, Kubiak J, Kloc M, Ghobrial RM. Allochimeric molecules and mechanisms in abrogation of cardiac allograft rejection. *J Heart Lung Transpl*. 2012; 31(1):73-84.

Skelton TS, Kloc M, Ghobrial, RM. Molecular and cellular pathways involved in the therapeutic functions of MHC molecules; a novel approach for mitigation of chronic rejection. *Open J Immunol*. 2011;1:15-26.

Skelton TS, Cordero AM, Nelles NJ, et al. Allochimeric MHC I-conditioned T cells attenuate chronic rejection in rat cardiac model system. *J Clin Cell Immunol*. 2011; 2:108.

Skelton TS, Tejpal N, Gong Y, Kloc M, Ghobrial RM. Down regulation of RhoA and changes in T cell cytoskeleton correlate with abrogation of allograft rejection. *Transplant Immunology*. 2010; 23(4): 185-193.

Lisik W, Gong Y, Tejpal N, Skelton TS, Bremer EG, Kloc M, Ghobrial RM. Intra-graft gene expression profile associated with the induction of tolerance by allochimeric MHC I in the rat heart transplant model. *Genesis*. 2009; 48: 8-19.

Lisk W, Tejpal N, Gong Y, Skelton TS, Ganachari M, Bremer EG, Kloc M, Ghobrial RM. Down regulation of genes involved in T cell polarity and motility during the induction of heart allograft tolerance by allochimeric MHC I. *PlosOne*. 2009; 4 (12): e8020.

Zhang L, You J, Sidhu J, Tejpal N, Ganachari M, Skelton TS, Kloc M, Ghobrial RM. Abrogation of chronic rejection in rat model system involves modulation of the mTORC1 and mTORC2 pathways. accepted to *Transplantation*.

## Presentations

Skelton TS, Tschen JA, Snyder MJ, Bailey HR, Das B. Largest Use of the Anodermal Advancement Flap in the Treatment of Complex Fistula-in-Ano. Oral Presentation: Texas Medical Association Annual Symposium, 2015 May 2

Skelton TS. Robotic Applications for the Colon and Rectal Surgeon. Scientific Meeting Speaker; The Colorectal Clinic of Houston, Houston TX. 2014 Oct 8.

Skelton TS. From Console to the Bedside: Robotics in General Surgery. Surgical Grand Rounds; Department of Surgery, Houston Methodist, Houston TX. 2014 Apr 4.

Skelton TS, Tejpal N, Gong Y, Kloc M, Ghobrial RM. Changes in the Molecular and Subcellular Components of Antigen Presentation Pathway Correlate with the Abrogation of Heart Allograft Rejection. Oral presentation: The American Society of Transplantation Annual Scientific Exchange, 2010 Oct 21- 24; Orlando, FL.

Skelton TS, Tejpal N, Gong Y, Kloc M, Ghobrial RM. Molecular Pathways Involved in the Abrogation of Heart Allograft Rejection in a Rat Model System. Oral presentation: The American College of Surgeons 96<sup>th</sup> Annual Clinical Congress Surgical Forum, 2010 Oct 3- 7; Washington, D.C.

Skelton TS, Tejpal N, Gong Y, Kloc M, Ghobrial RM. MAP Kinase Pathway Down Regulation Correlates with Inhibition of Chronic Rejection in Rat Heart Transplant Model. Poster session presented at: The American Transplant Congress, 2010 May 1-5; San Diego, CA.

Skelton TS, Tejpal N, Gong Y, Kloc M, Ganachari M, Bremer EG, Gaber OA, Bass BL, Ghobrial RM. Down regulation of Rho impacts cytoskeleton following allochimeric class MHC treatment. Oral presentation: Houston Surgical Society Resident Competition, 2010 Apr; Houston, TX.

Kloc M, Tejpal N, Gong Y, Skelton TS, Bremer EG, Gaber OA, Bass BL, Ghobrial RM. Down regulation of immunological synapse genes in splenic T cells during tolerance induction by mutated class I molecules in the

rat heart transplantation model. Poster session presented at: American Society of Transplant Surgeons 10<sup>th</sup> Annual State of the Art Winter Symposium, 2010 Jan 14- 16; Hollywood, FL.

Skelton TS. Targeting the cellular inflammatory response with Phosphodiesterase Inhibitors to promote recovery following spinal cord injury. Poster session presented at: The Vivian L. Smith Center for Neurological Research and The University of Texas Health Science Center Houston Summer Research Program, 2004 Jun; Houston, TX.

### **Awards**

Clinical Science ABSITE Award, for highest score, June 2013  
Houston Surgical Society Resident Poster Presentation Competition, Second Place, Apr 2010  
American Foundation for Donation and Transplantation Scholarship, 2010  
Intern of the Year, June 2008  
Basic Science ABSITE Award, for highest score, June 2008

### **Honors**

2000-2002	Golden Key National Honors Society
2000-2002	Alpha Epsilon Delta Honors Society, Treasurer
1999	Tri-Beta Honors Society

### **Community Service**

Spring 2011	The Methodist Hospital Transplant Institute Liver Walk, Participant
Spring 2010	Race for the Cure, Team Captain, The Methodist Hospital
Spring 2004	AIDS Walk, Participant
Spring 2004	Project Outreach at Hermann Park, Volunteer, park restoration and games with inner city youth
Fall 2004	Race for the Cure, Participant
Spring 2002	International Service Learning Medical Mission, Volunteer, two weeks in Nicaragua/ Costa Rica
Spring 2002	Volunteer, Assisting a disabled child and his family, 6 hours/week

### **Related Activities/Contributions**

2017	New Braunfels Science Festival
2015	Comal County Texas A&M Former Students Association
2015	New Braunfels Mens Golf Association
2003- 2006	UTHSC Intramural Flag Football, Center position
Fall 2006	Muddy Buddy 5 mile bike/run, Finisher
Spring 2005	Freescale Austin Motorola Marathon, 3hrs 37min
Fall 2004	Brave Heart Golf Tournament, Second Place, 15 under par
Summer 2003	Athens Country Club Golf Tournament, First Place, 15 under par