



## Joseph Shrager

Professor of Cardiothoracic Surgery

 NIH Biosketch available Online

### CLINICAL OFFICE (PRIMARY)

- **Cardiothoracic Surgery**

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### Bio

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#### BIO

Dr. Shrager assumed the role of Professor and Chief of the Division of Thoracic Surgery in July 2008. He came to Stanford from the University of Pennsylvania School of Medicine where he served as Associate Professor and Chief of Thoracic Surgery at the Hospital of the University of Pennsylvania and Pennsylvania Hospital. He earned his medical degree at Harvard, trained in surgery at Penn, and completed his thoracic surgery training at Massachusetts General Hospital.

Dr. Shrager has been identified as one of "America's Top Doctors" and one of "America's Top Doctors for Cancer" in Castle Connolly's prestigious listings for multiple years running. Dr. Shrager has been awarded US News and World Report "Top Doctor" recognition in every year since that rating system was inaugurated in 2012 ; this award places him among the top 1% of thoracic surgeons nationwide based upon reviews by physician-peers. Evidence of his expert status among his peers also includes membership on the editorial board of the Annals of Thoracic Surgery.

Dr. Shrager practices all aspects of thoracic surgery but has special interest and experience in lung cancer, surgery for emphysema, and mediastinal diseases. His clinical publications reflect these interests. In all cases, he looks towards minimally invasive approaches where appropriate, including VATS (thoracoscopic) lobectomy for early stage lung cancer and transcervical thymectomy.

In the basic research realm, Dr. Shrager has focused upon the responses of the respiratory muscles to various disease states and interventions. His lab's work has been published in important journals such as The New England Journal of Medicine, The Journal of Thoracic and Cardiovascular Surgery, and The American Journal of Respiratory and Critical Care Medicine.

#### CLINICAL FOCUS

- Cancer > Thoracic Oncology
- Video Assisted Thoracic Surgery
- Lung Cancer

- Thymoma
- Esophageal Cancer
- Mediastinal Diseases
- Lung Volume Reduction
- VATS
- Sympathectomy
- Mediastinal Cyst
- Thoracoscopy
- Thymectomy
- Myasthenia Gravis
- Emphysema Surgery
- Bullectomy
- Minimally Invasive Surgical Procedures
- Pneumothorax
- Pleural Diseases
- sarcoma
- Thoracic and Cardiac Surgery

#### **ACADEMIC APPOINTMENTS**

- Professor - University Medical Line, Cardiothoracic Surgery
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute

#### **ADMINISTRATIVE APPOINTMENTS**

- Co-Director, Stanford Center for Minimally Invasive Thoracic Surgery (SMITS), (2012- present)
- Director, Stanford Respiratory Muscle Research Laboratory, (2008- present)
- Editorial Board Member, Annals of Thoracic Surgery, (2001-2018)
- Chief, Section of General Thoracic Surgery, UPenn, (2003-2007)
- Chief, Stanford Division of Thoracic Surgery, (2008- present)
- Physician co-Director Thoracic Oncology CCP, Stanford Cancer Center, (2010- present)

#### **HONORS AND AWARDS**

- Phi Beta Kappa, Junior year induction, Amherst College (1983)
- Elected Member, Society for Clinical Surgery (2008)
- Summa Cum Lauda, Amherst College (1984)
- Manstein Graduation Prize, Amherst College (Top Premed Athlete) (1984)
- Havighurst Graduation Prize, Amherst College (Top History Thesis) (1984)
- Simpson Fellowship, (For study at Harvard Medical School) (1984-1988)
- Cabot Graduation Prize, Harvard Medical School (1988)
- William I Inouye Award for Excellence in Teaching, Department of Surgery, University of Pennsylvania Sch. of Med. (1991)

- National Research Service Award, National Institutes of Health (1990-1992)
- 2nd Edward D. Churchill Research Scholarship, American Association for Thoracic Surgery (1999-2001)
- Fellow, American College of Chest Physicians (2000)
- Fellow, American College of Surgeons (2001)
- "Top Doctors" Listing, Castle-Connolly, San Francisco Magazine (2009-2024 yearly)
- "Top Docs" Listing, Philadelphia Magazine (2002, 2005, 2006, 2007)
- "Top Doctors" Listing, "America's Top Doctors for Cancer -- peer-elected (2006,07,08 09 10 11 12 13 14 15 16 17 etc)
- "Top Doctors" Listing, "America's Top Doctors" - peer elected (2007,08,09,10,11,12, 13, 14, 15, 16, 17 etc)
- Elected Member, American Association for Thoracic Surgery (2002)
- Elected Member, Society of Clinical Surgery (2008)
- Elected Member, American Surgical Association (2010)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Chair, Society of Thoracic Surgeons, Workforce on General Thoracic Surgeon (2023 - present)
- Member, NCCN, Policy Advisory Committee (2019 - present)
- Member, American Association for Thoracic Surgery (2004 - present)
- Member, Society of Thoracic Surgeons (1998 - present)
- Member, American Surgical Association (2008 - present)
- Member, Society of Clinical Surgery (2007 - present)

## **PROFESSIONAL EDUCATION**

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (1999)
- Board Certification: General Surgery, American Board of Surgery (2009)
- Residency: Massachusetts General Hospital Thoracic Surgery (1997) MA
- Residency: Hospital of University of Pennsylvania Surgery Residency (1995) PA
- Medical Education: Harvard Medical School (1988) MA
- Thoracic Surgery, Massachusetts General Hospital , Thoracic Surgery (1997)
- Surgery Training, Hospital of the Univ of Penn , Surgery (1995)
- MD, Harvard University , Medicine (1988)

## **PATENTS**

- Joseph Shrager. "United States Patent 10,240,145 B2 CRISPR/Cas-mediated Genome Editing to Treat EGFR-mutant Lung Cancer", Leland Stanford Junior University, Mar 26, 2019
- Joseph Shrager, Huibin Tang. "United States Patent 9,511,057 Methods for Treating Denervation-induced Muscle Atrophy", Leland Stanford Junior University, Dec 6, 2016

## **LINKS**

- Stanford Thoracic Surgery Services: <http://med.stanford.edu/ctsurgery/clinical-care/thoracic-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-thoracic-surgery>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Stanford Thoracic Surgery Lab: <http://med.stanford.edu/ctsurgery/research/thoracic-surgery-lab.html>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

We carry our clinical research regularly on the above topics.

In the wet-lab , we focus on basic and translational work in skeletal muscle atrophy/dysfunction and on EGFR-mutant-driven lung cancer.

On the musce-research side, we were the first to firmly establish the existence of the now widely-recognized clinical problem of ventilator-induced diaphragm atrophy/dysfunction (often termed "VIDD - ventilator-induced diaphragm dysfunction). We then went on using animal models and in vitro analyses to identify some of the pathways involved in effecting this muscle dysfunction. We have now taken that from bench to bedside, with a currently enrolling clinical trial to determine if JAK inhibition will prevent VIDD.

We also have several other ongoing research projects in interesting areas of skeletal muscle dysfunction. These include work using knockout mice to study the role of the miR320 and the Pol3d genes in skeletal muscle, and work toward identifying a treatment for SELENON myopathy using a new invitro cultured muscle cell assay.

On the lung cancer research side, we have designed a CRISPR-based treatment for adenocarcinoma of the lung of the type that frequently occurs in non-smokers, driven by mutations in the EGFR gene. This potential therapy is currently moving into small animal models.

### CLINICAL TRIALS

- Janus Kinase Inhibition to Prevent Ventilator-induced Diaphragm Dysfunction, Recruiting
- Comparison of Different Types of Surgery in Treating Patients With Stage IA Non-Small Cell Lung Cancer, Not Recruiting
- CyberKnife Radiosurgical Treatment of Inoperable Early Stage Non-Small Cell Lung Cancer, Not Recruiting
- GSK1572932A Antigen-Specific Cancer Immunotherapeutic as Adjuvant Therapy in Patients With Non-Small Cell Lung Cancer, Not Recruiting
- Imaging and Biomarkers of Hypoxia in Solid Tumors, Not Recruiting
- Microarray Analysis of Gene Expression and Identification of Progenitor Cells in Lung Carcinoma, Not Recruiting
- Safety and Effectiveness of a New Pleural Catheter for Symptomatic, Recurrent, MPEs Versus Approved Pleural Catheter, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Layan Abu Qayyas, Amanda Immidisetti, Adam Sauer

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiothoracic Surgery (Fellowship Program)
- Epidemiology (Masters Program)
- Health Services Research (Masters Program)

## Publications

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### PUBLICATIONS

- **Misinformation and Overestimation of Computed Tomography Lung Cancer Screening Harms-Methodology Matters: A Joint Statement from The Society of Thoracic Surgeons, the American Society for Radiation Oncology, and the American College of Radiology.** *The Annals of thoracic surgery*  
Tupper, H. I., Shrager, J. B., Moghanaki, D., Simone, C. B., Kazerooni, E. A., Hart, E. M., Cooke, D. T., Velotta, J. B., Tong, B. C., Keshava, H. B., Erkmen, C. P., Yang, C. J., Servais, et al  
2027
- **Lung volume reduction surgery should be the default volume reduction approach for most emphysema patients.** *The European respiratory journal*  
Shrager, J. B.  
2026; 67 (4)
- **The Society of Thoracic Surgeons (2025) Expert Consensus Document on Interventions for Screen-Detected Lung Nodules.** *The Annals of thoracic surgery*  
Servais, E., Hayanga, J. W., Linden, P., Sood, P., Raymond, D. P., Antonoff, M. B., Chudgar, N. P., Keshava, H. B., Velotta, J. B., Crabtree, T., Jeffrey Yang, C. F., Raz, D., Tong, et al  
2026
- **The association of chylothorax with aggressiveness of lymph node management during pulmonary resection.** *The Annals of thoracic surgery*  
Kamtam, D. N., Berry, M. F., Lin, N., Kapula, N., Kim, J. J., Wallen, B., Satoyoshi, M., Elliott, I. A., Guenthart, B. A., Liou, D. Z., Lui, N. S., Backhus, L. M., Shrager, et al  
2025
- **JAK inhibition with tofacitinib rapidly increases contractile force in human skeletal muscle.** *Life science alliance*  
Shrager, J. B., Randle, R., Lee, M., Ahmed, S. S., Trope, W., Lui, N., Poultides, G., Liou, D., Visser, B., Norton, J. A., Nesbit, S. M., He, H., Kapula, et al  
2024; 7 (11)
- **The Society of Thoracic Surgeons Expert Consensus on the Multidisciplinary Management and Resectability of Locally Advanced Non-Small Cell Lung Cancer.** *The Annals of thoracic surgery*  
Kim, S. S., Cooke, D. T., Kidane, B., Tapias, L. F., Lazar, J. F., Awori Hayanga, J. W., Patel, J. D., Neal, J. W., Abazeed, M. E., Willers, H., Shrager, J. B.  
2024
- **Clinical impact of EGFR and KRAS mutations in surgically treated unifocal and multifocal lung adenocarcinoma.** *Translational lung cancer research*  
Jiang, J., Berry, M. F., Lui, N. S., Liou, D. Z., Trope, W. L., Backhus, L. M., Shrager, J. B.  
2024; 13 (6): 1222-1231
- **The 2023 American Association for Thoracic Surgery (AATS) Expert Consensus Document: Management of subsolid lung nodules.** *The Journal of thoracic and cardiovascular surgery*  
Chen, H., Kim, A. W., Hsin, M., Shrager, J. B., Prosper, A. E., Wahidi, M. M., Wigle, D. A., Wu, C. C., Huang, J., Yasufuku, K., Henschke, C. I., Suzuki, K., Tailor, et al  
2024
- **What is an Adequate Margin During Sublobar Resection of  $\leq 3$ cm N0 Subsolid Lung Adenocarcinomas?** *The Annals of thoracic surgery*  
Kamtam, D. N., Berry, M. F., Lui, N. S., Satoyoshi, M., Elliott, I. A., Liou, D. Z., Guenthart, B., Backhus, L. M., Shrager, J. B.  
2024
- **First in human Phase I Clinical Trial of Stereotactic Irradiation to Achieve Lung Volume Reduction (SILVR) in Severe Emphysema.** *International journal of radiation oncology, biology, physics*  
Kamtam, D. N., Binkley, M. S., Kapula, N., Sadeghi, C., Nesbit, S., Md, H. H., Chang, J., Maxim, P. G., Diehn, M., Loo, B. W., Shrager, J. B.  
2024
- **Clinical Impact of EGFR vs KRAS Mutations in Multifocal Lung Adenocarcinoma**  
Jiang, J., Berry, M. F., Lui, N. S., Liou, D. Z., Trope, W. L., Backhus, L. M., Shrager, J. B.

ELSEVIER SCIENCE INC.2023: S484-S485

- **We should be considering lung cancer screening for never-smoking Asian-American females.** *The Journal of thoracic and cardiovascular surgery*  
Kamtam, D. N., Shrager, J. B.  
2023
- **p53 governs an AT1 differentiation programme in lung cancer suppression.** *Nature*  
Kaiser, A. M., Gatto, A., Hanson, K. J., Zhao, R. L., Raj, N., Ozawa, M. G., Seoane, J. A., Biegling-Rolett, K. T., Wang, M., Li, I., Trope, W. L., Liou, D. Z., Shrager, et al  
2023
- **KRAS(G12D) drives lepidic adenocarcinoma through stem-cell reprogramming.** *Nature*  
Juil, N. H., Yoon, J. K., Martinez, M. C., Rishi, N., Kazadaeva, Y. I., Morri, M., Neff, N. F., Trope, W. L., Shrager, J. B., Sinha, R., Desai, T. J.  
2023
- **Risk of adenocarcinoma in patients with a suspicious ground-glass opacity: a retrospective review** *JOURNAL OF THORACIC DISEASE*  
Roy, E., Shrager, J., Benson, J., Trope, W., Bhandari, P., Lui, N., Liou, D., Backhus, L., Berry, M. F.  
2022
- **Half of Anastomotic Leaks after Esophagectomy are Undetected on Initial Postoperative Esophagram.** *The Annals of thoracic surgery*  
Elliott, I. A., Berry, M. F., Trope, W., Lui, N. S., Guenthart, B. A., Liou, D. Z., Whyte, R. I., Backhus, L. M., Shrager, J. B.  
2022
- **Positron emission tomography/computed tomography differentiates resectable thymoma from anterior mediastinal lymphoma.** *The Journal of thoracic and cardiovascular surgery*  
Byrd, C. T., Trope, W. L., Bhandari, P., Konsker, H. B., Moradi, F., Lui, N. S., Liou, D. Z., Backhus, L. M., Berry, M. F., Shrager, J. B.  
2022
- **Rationale and design of a mechanistic clinical trial of JAK inhibition to prevent ventilator-induced diaphragm dysfunction.** *Respiratory medicine*  
Shrager, J. B., Wang, Y., Lee, M., Nesbit, S., Trope, W., Konsker, H., Fatodu, E., Berry, M. S., Poulstides, G., Norton, J., Burdon, T., Backhus, L., Cooke, et al  
2021; 189: 106620
- **Impact of the Surgical Approach to Thymectomy Upon Complete Stable Remission Rates in Myasthenia Gravis: A Meta-analysis.** *Neurology*  
Solis-Pazmino, P., Baiu, I., Lincango-Naranjo, E., Trope, W., Prokop, L., Ponce, O. J., Shrager, J. B.  
2021
- **Cancer diagnoses and survival rise as 65-year-olds become Medicare-eligible.** *Cancer*  
Patel, D. C., He, H., Berry, M. F., Yang, C. J., Trope, W. L., Wang, Y., Lui, N. S., Liou, D. Z., Backhus, L. M., Shrager, J. B.  
2021
- **A molecular cell atlas of the human lung from single-cell RNA sequencing.** *Nature*  
Travaglini, K. J., Nabhan, A. N., Penland, L., Sinha, R., Gillich, A., Sit, R. V., Chang, S., Conley, S. D., Mori, Y., Seita, J., Berry, G. J., Shrager, J. B., Metzger, et al  
2020
- **KEAP1/NFE2L2 mutations to predict local recurrence after radiotherapy but not surgery in localized non-small cell lung cancer.**  
Binkley, M. S., Jeon, Y., Nesselbush, M., Moding, E. J., Nabet, B., Almanza, D. S., Yoo, C., Kurtz, D., Owen, S., Backhus, L., Berry, M. F., Shrager, J. B., Ramchandran, et al  
AMER SOC CLINICAL ONCOLOGY.2020
- **Cancer diagnoses and survival rise as 65-year-olds become Medicare eligible.**  
Patel, D. C., He, H., Berry, M. F., Yang, C., Trope, W., Lui, N., Liou, D. Z., Backhus, L., Shrager, J. B.  
AMER SOC CLINICAL ONCOLOGY.2020
- **Sub-solid lung adenocarcinoma in Asian versus Caucasian patients: different biology but similar outcomes** *JOURNAL OF THORACIC DISEASE*  
Lui, N. S., Benson, J., He, H., Imielski, B. R., Kunder, C. A., Liou, D. Z., Backhus, L. M., Berry, M. F., Shrager, J. B.

2020; 12 (5): 2161–71

- **Paradoxical Motion on Sniff Test Predicts Greater Improvement Following Diaphragm Plication.** *The Annals of thoracic surgery*  
Patel, D. C., Berry, M. F., Bhandari, P. n., Backhus, L. M., Raees, S. n., Trope, W. n., Nash, A. n., Lui, N. S., Liou, D. Z., Shrager, J. B.  
2020
- **Transcervical Thymectomy is the Most Cost-Effective Surgical Approach in Myasthenia Gravis.** *The Annals of thoracic surgery*  
Sholtis, C. n., Teymourtash, M. n., Berry, M. n., Backhus, L. n., Bhandari, P. n., He, H. n., Benson, J. n., Wang, Y. Y., Yevudza, E. n., Lui, N. n., Shrager, J. n.  
2020
- **Does size matter? A national analysis of the utility of induction therapy for large thymomas.** *Journal of thoracic disease*  
Liou, D. Z., Ramakrishnan, D. n., Lui, N. S., Shrager, J. B., Backhus, L. M., Berry, M. F.  
2020; 12 (4): 1329–41
- **mTORC1 underlies age-related muscle fiber damage and loss by inducing oxidative stress and catabolism** *AGING CELL*  
Tang, H., Inoki, K., Brooks, S. V., Okazawa, H., Lee, M., Wang, J., Kim, M., Kennedy, C. L., Macpherson, P. C. D., Ji, X., Van Roekel, S., Fraga, D. A., Wang, et al  
2019; 18 (3)
- **Non-Myasthenia Gravis Immune Syndromes and the Thymus Is There a Role for Thymectomy?** *THORACIC SURGERY CLINICS*  
Wightman, S. C., Shrager, J. B.  
2019; 29 (2): 215+
- **A national analysis of open versus minimally invasive thymectomy for stage I to III thymoma.** *The Journal of thoracic and cardiovascular surgery*  
Yang, C. J., Hurd, J. n., Shah, S. A., Liou, D. n., Wang, H. n., Backhus, L. M., Lui, N. S., D'Amico, T. A., Shrager, J. B., Berry, M. F.  
2019
- **The Signaling Network Resulting in Ventilator-induced Diaphragm Dysfunction** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*  
Tang, H., Shrager, J. B.  
2018; 59 (4): 417–27
- **Presence of Even a Small Ground-Glass Component in Lung Adenocarcinoma Predicts Better Survival** *CLINICAL LUNG CANCER*  
Berry, M. F., Gao, R., Kunder, C. A., Backhus, L., Khuong, A., Kadoch, M., Leung, A., Shrager, J.  
2018; 19 (1): E47–E51
- **Survival and risk factors for progression after resection of the dominant tumor in multifocal, lepidic-type pulmonary adenocarcinoma**  
Gao, R. W., Berry, M. F., Kunder, C. A., Khuong, A. A., Wakelee, H., Neal, J. W., Backhus, L. M., Shrager, J. B.  
MOSBY-ELSEVIER.2017: 2092+
- **Smad3 initiates oxidative stress and proteolysis that underlies diaphragm dysfunction during mechanical ventilation** *SCIENTIFIC REPORTS*  
Tang, H., Kennedy, C. L., Lee, M., Gao, Y., Xia, H., Olguin, F., Fraga, D. A., Ayers, K., Choi, S., Kim, M., Tehrani, A., Sowb, Y. A., Rando, et al  
2017; 7: 14530
- **Circulating Tumor DNA Detects Residual Disease and Anticipates Tumor Progression Earlier Than CT Imaging**  
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A. M., Stehr, H., Azad, T. D., Zhou, L., Liu, C., Scherer, F., Kurtz, D. M., Esfahani, M. S., Say, C., Carter, et al  
ELSEVIER SCIENCE INC.2017: E4
- **Early detection of molecular residual disease in localized lung cancer by circulating tumor DNA profiling.** *Cancer discovery*  
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A. M., Stehr, H. n., Azad, T. D., Khodadoust, M. S., Esfahani, M. S., Liu, C. L., Zhou, L. n., Scherer, F. n., Kurtz, D. M., Say, et al  
2017
- **Effect of EGFR Mutations on Survival in Patients following Surgical Resection of Lung Adenocarcinoma**  
Laidlaw, G., Gao, R., Ayers, K., Backhus, L., Berry, M., Shrager, J.  
ELSEVIER SCIENCE INC.2017: S751

- **Video-assisted thoracoscopic diaphragm plication using a running suture technique is durable and effective.** *Journal of thoracic and cardiovascular surgery*  
Demos, D. S., Berry, M. F., Backhus, L. M., Shrager, J. B.  
2016
- **Randomized Trial of Thymectomy in Myasthenia Gravis** *NEW ENGLAND JOURNAL OF MEDICINE*  
Shrager, J. B.  
2016; 375 (20): 2005–6
- **Integrated digital error suppression for improved detection of circulating tumor DNA** *NATURE BIOTECHNOLOGY*  
Newman, A. M., Lovejoy, A. F., Klass, D. M., Kurtz, D. M., Chabon, J. J., Scherer, F., Stehr, H., Liu, C. L., Bratman, S. V., Say, C., Zhou, L., Carter, J. N., West, et al  
2016; 34 (5): 547-555
- **CRISPR/Cas-mediated genome editing to treat EGFR-mutant lung cancer: a personalized molecular surgical therapy** *EMBO MOLECULAR MEDICINE*  
Tang, H., Shrager, J. B.  
2016; 8 (2): 83-85
- **Time course and predictive factors for lung volume reduction following stereotactic ablative radiotherapy (SABR) of lung tumors.** *Radiation oncology*  
Binkley, M. S., Shrager, J. B., Chaudhuri, A., Papat, R., Maxim, P. G., Shultz, D. B., Diehn, M., Loo, B. W.  
2016; 11 (1): 40-?
- **Diameter of Solid Tumor Component Alone Should be Used to Establish T Stage in Lung Adenocarcinoma.** *Annals of surgical oncology*  
Burt, B. M., Leung, A. N., Yanagawa, M., Chen, W., Groth, S. S., Hoang, C. D., Nair, V. S., Shrager, J. B.  
2015; 22: 1318-1323
- **The Prevention and Management of Air Leaks Following Pulmonary Resection.** *Thoracic surgery clinics*  
Burt, B. M., Shrager, J. B.  
2015; 25 (4): 411-419
- **Endobronchial valves in a highly parsed emphysema population** *LANCET*  
Shrager, J. B.  
2015; 386 (9998): 1022–23
- **The JAK-STAT Pathway Is Critical in Ventilator-Induced Diaphragm Dysfunction.** *Molecular medicine*  
Tang, H., Smith, I. J., Hussain, S. N., Goldberg, P., Lee, M., Sugiarto, S., Godinez, G. L., Singh, B. K., Payan, D. G., Rando, T. A., Kinsella, T. M., Shrager, J. B.  
2015; 20 (1): 579-589
- **Ultrasensitive Detection of Circulating Tumor DNA in Non-Small Cell Lung Cancer by Deep Sequencing**  
Diehn, M., Bratman, S. V., Newman, A. M., Neal, J. W., Wakelee, H. A., Merritt, R. E., Shrager, J. B., Loo, B. W., Alizadeh, A.  
ELSEVIER SCIENCE INC.2014: S75
- **Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*  
Binkley, M. S., Shrager, J. B., Leung, A. N., Papat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.  
2014; 90 (1): 216-223
- **An ultrasensitive method for quantitating circulating tumor DNA with broad patient coverage.** *Nature medicine*  
Newman, A. M., Bratman, S. V., To, J., Wynne, J. F., Eclow, N. C., Modlin, L. A., Liu, C. L., Neal, J. W., Wakelee, H. A., Merritt, R. E., Shrager, J. B., Loo, B. W., Alizadeh, et al  
2014; 20 (5): 548-554
- **mTORC1 promotes denervation-induced muscle atrophy through a mechanism involving the activation of FoxO and E3 ubiquitin ligases.** *Science signaling*  
Tang, H., Inoki, K., Lee, M., Wright, E., Khuong, A., Khuong, A., Sugiarto, S., Garner, M., Paik, J., DePinho, R. A., Goldman, D., Guan, K., Shrager, et al  
2014; 7 (314): ra18-?

- **A Dominant Adenocarcinoma With Multifocal Ground Glass Lesions Does Not Behave as Advanced Disease** *Late-Breaking Clinical Trial Abstract Session at the 49th Annual Meeting of the Society-of-Thoracic-Surgeons*  
Gu, B., Burt, B. M., Merritt, R. E., Stephanie, S., Nair, V., Hoang, C. D., Shrager, J. B.  
ELSEVIER SCIENCE INC.2013: 411–18
- **Approach to the patient with multiple lung nodules.** *Thoracic surgery clinics*  
Shrager, J. B.  
2013; 23 (2): 257-266
- **Oxidative stress-responsive microRNA-320 regulates glycolysis in diverse biological systems** *FASEB JOURNAL*  
Tang, H., Lee, M., Sharpe, O., Salamone, L., Noonan, E. J., Hoang, C. D., Levine, S., Robinson, W. H., Shrager, J. B.  
2012; 26 (11): 4710-4721
- **Prophylaxis and Management of Atrial Fibrillation After General Thoracic Surgery** *THORACIC SURGERY CLINICS*  
Merritt, R. E., Shrager, J. B.  
2012; 22 (1): 13-?
- **Intrinsic apoptosis in mechanically ventilated human diaphragm: linkage to a novel Fos/FoxO1/Stat3-Bim axis** *FASEB JOURNAL*  
Tang, H., Lee, M., Budak, M. T., Pietras, N., Hittinger, S., Vu, M., Khuong, A., Hoang, C. D., Hussain, S. N., Levine, S., Shrager, J. B.  
2011; 25 (9): 2921-2936
- **Improved Survival after Pulmonary Metastasectomy for Soft Tissue Sarcoma** *JOURNAL OF THORACIC ONCOLOGY*  
Predina, J. D., Puc, M. M., Bergey, M. R., Sonnad, S. S., Kucharczuk, J. C., Staddon, A., Kaiser, L. R., Shrager, J. B.  
2011; 6 (5): 913-919
- **Endobronchial Valves for Emphysema** *NEW ENGLAND JOURNAL OF MEDICINE*  
Shrager, J. B.  
2011; 364 (4): 382–83
- **Extended Transcervical Thymectomy: The Ultimate Minimally Invasive Approach** *2nd International Biannual Minimally Invasive Thoracic Surgery Summit*  
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