

ALAN PATRICK KYPSON, MD

Associate Professor of Surgery

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Spouse: Kristal Anne Kypson, RN, MSN, CPNP

Children: Patrick Manning born October 28, 1999
Caroline Marie born February 21, 2002

EMPLOYMENT

2002-7 Assistant Professor of Surgery, Department of Surgery,
Brody School of Medicine, East Carolina University,
Greenville, NC

2007-present Associate Professor of Surgery with Permanent Tenure,
Department of Surgery, Brody School of Medicine, East
Carolina University, Greenville, NC

2007-present Associate Professor, Department of Internal Medicine,
Brody School of Medicine, East Carolina University,
Greenville, NC

EDUCATION

1981-5 Great Neck North Senior High School Diploma
Great Neck, NY

1985-9 Columbia College BA, History
New York City, NY

1989-93 Columbia College of Physicians&Surgeons MD
New York City, NY

PROFESSIONAL TRAINING

- 1984-8 **Cardiovascular Surgical Assistant**
Division of Cardiothoracic Surgery,
University Hospital of Zurich,
Zurich, Switzerland.
- 1988-9 **Emergency Medical Technician**
New York, N.Y.
- 1988-90 **Laboratory Research Assistant**
Department of Anesthesiology,
Columbia College of Physicians&Surgeons,
New York, N.Y.
- 1993-4 **Intern**
Department of General Surgery,
Duke University Medical Center,
Durham, N.C.
- 1994-5 **Junior Assistant Resident**
Department of General Surgery,
Duke University Medical Center,
Durham, N.C.
- 1995-7 **Research Fellow**
Division of Cardiothoracic Surgery,
Duke University Medical Center,
Durham, N.C.
- 1996-7 **Instructor in Surgery and Course Director**
Physician Assistant Program,
Department of Surgery,
Duke University Medical Center,
Durham, N.C.
- 1997-9 **Senior Assistant Resident**
Department of General Surgery,
Duke University Medical Center,
Durham, N.C.
- 1999-2000 **Chief Resident**
Department of General Surgery,
Duke University Medical Center,
Durham, N.C.

2000-2 **Cardiothoracic Surgery Resident**
Division of Thoracic Surgery
Duke University Medical Center,
Durham, N.C.

HONORS and AWARDS

1995-7 NIH National Research Service Award IF32HL09303
“Cardiac Mechanics in Pressure-Overload Heart Failure.”

1998 Pilling Weck Award for Excellence in Clinical and
Traditional Science, “Myocardial Gene Transfer Enhances
Function of the Transplanted Heart.”

2004 American College of Cardiology Foundation/Pfizer
Visiting Professorship in Cardiovascular Medicine for
R.C.J. Chiu, MD, PhD, “Myocardial Stem Cell
Transplantation.”

2005 William E. Laupus Library Faculty Author Recognition
Award

2006 Best Drawing Board Invention, “Cell Therapy Infusion
Device,” Tyson, G.H., Muller-Borer, B., Cascio, W,
Chitwood, W.R., **Kypson**, A.P. 9th Annual NewEra
Cardiac Care Meeting.

2006 William E. Laupus Library Faculty Author Recognition
Award

2007 Scientific Research Poster Award, “Beating and arrested
intramyocardial injections are associated with significant
mechanical loss: implications for cardiac cell
transplantation,” Collins MC, Hudson W, deFreitas D, Sun
YS, Muller-Borer BJ, **Kypson** AP. *Department of Internal
Medicine, Research Day*, East Carolina University

LISCENSURE

1994 Diplomate, National Board of Medical Examiners #424091

1997 North Carolina Medical License #97-01444

2001 Diplomate, American Board of Surgery #46728

2003 Diplomate, American Board of Thoracic Surgery #6806

SOCIETIES

2000-Present	Member, Sabiston Surgical Society
2002-Present	Member, North Carolina Medical Society
2003-Present	Member, Association for Academic Surgery
2004-Present	Member, Southern Thoracic Surgical Association
2004-Present	Fellow, American College of Chest Physicians
2004-Present	Member, Society of Thoracic Surgeons
2004-Present	Fellow, American College of Surgeons
2004-Present	Fellow, American College of Cardiology
2005-Present	Member, Cardiac Surgery Biology Club
2005-Present	Member, North Carolina Chapter, American College of Surgeons
2006-Present	Sigma Xi

LANGUAGES

Czech (fluent), French, Spanish

ABSTRACTS

1. Nahas, G., Trouve, R., Manger, W., **Kypson, A.** Cocaine, catecholamines and calcium homeostasis, *The Physiologist* 32:172, 1989.
2. Trouve, R., Nahas, G., **Kypson, A.** Angiotensin II and cocaine lethal intoxication. *FASEB Journal* Volume 3, No.3, Part I, 1989.
3. Trouve, R., **Kypson, A.**, Latour C., Nahas, G. Cocaine blunts the baroreceptor reflex in rats. *European Journal of Clinical Pharmacology* Volume 36, Sup I, 1989.
4. Trouve, R., **Kypson, A.**, Sitbon, M., Latour, C., Nahas, G. Intoxication grave par amphetamine: une nouvelle approche. *Journal of Toxicology and Clinical Experimentation* Volume 9(3), p210. 1989.

5. Trouve, R., Nahas, G., Manger, W., **Kypson, A.** Anticatecholaminergic properties of cocaine antidotes. *FASEB Journal* Volume 4, No.4, Part II, 1990.
6. **Kypson, A.P.**, El-Shewy, H.M., Soloma, S.H., Abd-Alla, O., Lowe, J.E., Abdel-aleem, S. Effects of chronic inhibition of fatty acid oxidation on stress tolerance in the heart. *Journal of Molecular and Cellular Cardiology* Volume 29, No.6, p. A192. 1997.
7. Channon, K.M., **Kypson, A.P.**, Blazing, M.A., Daggett C.W., Koch, W.J., George, S.F. In vivo pulmonary artery adenoviral gene transfer of nitric oxide synthase enhances pulmonary nitric oxide production. *Heart* Volume 77, Supp.I, p. P8. 1997.
8. Maurice, J.P., **Kypson, A.P.**, Skaer, C.A., Koch, W.J. β -adrenergic signaling characteristics in an infarct heart model. *Circulation* Volume 96, No.8, p. I-362. 1997.
9. Skaer, C.A., Akhter, S.A., **Kypson, A.P.**, McDonald, P., Peppel, K.C., Koch, W.J. Adenoviral-mediated β -adrenergic rescue of failing ventricular cardiomyocytes. *Circulation* Volume 96, No.8, p. I-483. 1997.
10. **Kypson, A.P.**, Akhter, S.A., Peppel, K., Hendrickson, S.C., McDonald, P., Lilly, R.E., Glower, D.D., Lefkowitz, R.J., Koch, W.J. Adenoviral-mediated gene transfer of the β_2 -adrenergic receptor improves function of the transplanted rat heart. *Circulation* Volume 96, No.8, p. I-670. 1997.
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12. St.Louis, J.D., Hendrickson, S.C., **Kypson, A.P.**, Hughes, G.C., Coleman, R.E., Donovan, C.L., Degrado, T.R., Seabage, L., Abdel-aleem, S., Landolfo, K.P., Lowe, J.E. An experimental model of myocardial hibernation. *Journal of American College of Cardiology* Volume 31, No.2, p.409A. 1998.
13. Shah, A.S., Atkins, B.Z., Hata, J.A., **Kypson, A.P.**, Walton, G.B., Sudarshen, S., Davis, J.W., Wolfe, W.G., Glower, D.D. Right ventricular overload depresses ventricular performance and alters global beta-adrenergic signaling. *Circulation* Volume 98, No.17, p. I-554-5. 1998.
14. Hughes, G.C., Annex, B.H., Yin, B., Phippen, A.M., Lin, P., **Kypson, A.P.**, Peters, K.G., Lowe, J.E., Landolfo, K.P. Transmyocardial laser revascularization (TMR) limits in vivo adenoviral-mediated gene transfer in porcine myocardium. *Journal of American College of Cardiology* Volume 33, No.2, Supp.A, p.355A. 1999.

15. Tai, O.S., Shah, A.S., **Kypson**, A.P., Glower, D.D., Koch, W.J. Brain death induces increased β -adrenergic receptor (β AR) kinase 1 expression in the heart. *Circulation* Volume 100, No.18, p. I-165. 1999.
16. Hughes, G.C., Baklanov, D.V., Annex, B.H., Biswas, S.S., **Kypson**, A.P., Pippen, A.M., Yin, B., Donovan, C.L., Lowe, J.E., Landolfo, K.P. Denervation is not the long-term mechanism of action of transmymocardial laser revascularization. *Circulation* Volume 100, No.18, p. I-249. 1999.
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18. Shah, A.S., Lilly, R.E., **Kypson**, A.P., Tai, O.S., Hata, J.A., Glower, D.D., Koch, W.J. *In vivo* intracoronary delivery to and overexpression of the human β 2-adrenergic receptor (β 2-AR) in the left ventricle. American Heart Association Scientific Conference on Molecular, Cellular, and Integrated Physiological Approaches to the Failing Heart. 1999.
19. Glower, D.D., **Kypson**, A.P. Port-access aortic and mitral valve replacement. *Cardiothoracic Techniques and Technologies* Volume 7, p.74. 2001.
20. Bolotin, G., **Kypson**, A.P., Nifong L.W., Chitwood Jr., W.R. Video-assisted mitral valve repair and left atrial ablation through a right mini-thoracotomy. *Heart Surgery Forum* Volume 6, No.2, p.105. 2003.
21. **Kypson**, A.P. Perfusion for robotic and minimally invasive cardiac surgery. *Heart Surgery Forum* Volume 6, No.2, p.111-2. 2003.
22. Bolotin, G., Scott, W.W., Austin, T.C., Charland, P.J., **Kypson**, A.P., Nifong, L.W., Reade, C.C., Chitwood Jr., W.R. Robotic skeletonizing of the mammary artery: is it safe? *Heart Surgery Forum* Volume 6, Supp.1, p. S39-40. 2003.
23. Bolotin, G., Shapira Y., Gotler Y., Frolkis I.V., **Kypson**, A.P., Neshor N., Chitwood Jr., W.R., Uretzky G. The potential advantage of “no-touch” aortic technique in off-pump complete arterial revascularization. *Heart Surgery Forum* Volume 6, Supp.1, p. S51. 2003.
24. Bolotin, G., **Kypson**, A.P., Chu, V., Nifong, W.L., Chitwood Jr., RW. Should a video-assisted mini-thoracotomy be the approach of choice for re-operative mitral valve surgery? Society for Heart Valve Disease 2003.
25. Reade, C.C., Bower, C.E., Schuler, C.M., Austin, T.C., Charland, P.J., Sun, Y.S., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Acute effects of suction retraction on atrial hemodynamics and histology. *Journal of the American College of Surgeons* Volume 197, No.3 (Supplement), p. S26. 2003.

26. Bolotin, G., **Kypson**, A.P., Nifong, L.W., Reade, C., Freund, Jr., W., Chitwood, Jr., W.R. Robotic-assisted mitral valve repair with microwave atrial fibrillation ablations: early clinical results. *Journal of the American College of Surgeons* Volume 197, No.3 (Supplement), p. S24. 2003.
27. Koutlas, T.C., Maziarz, D.M., Conquest, A.M., Williams, J.M., Scott, W.W., **Kypson**, A.P., Chitwood Jr., W.R. Clinical results using the St. Jude medical “symmetry” aortic connector system in 400 coronary artery bypass patients. *Journal of American College of Cardiology* Volume 43, No. 5, Supplement A, p. 273A. 2004.
28. Reade, C.C., Bower, C.E., Bailey, B.M., Maziarz, D.M., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Learning curves associated with robotic mitral valve repair. *Heart Surgery Forum* Volume 7, No.4, p. 254. 2004.
29. **Kypson**, A.P. Perfusion for minimally invasive cardiac surgery. *Heart Surgery Forum* Volume 7, No.4, p. 250-1. 2004.
30. Cook, R.C., Nifong, L.W., Lashley, G.G., Duncan, R.A., Campbell, J.A., Law, Y.B., **Kypson**, A.P., Chitwood Jr., W.R. Early experience with echocardiographically-guided selection of annuloplasty band in robotically-assisted mitral valve repair. *NewEra Cardiac Care* 2005.
31. Cook, R.C., Nifong, L.W., **Kypson**, A.P., Reade, C.C., Law, Y.B., Chitwood Jr., W.R. Bileaflet mitral repairs using robotic assistance in patients with Barlow’s valves. *NewEra Cardiac Care* 2005.
32. Cook, R.C., Nifong, L.W., Charland, P., Enterkin, J., **Kypson**, A.P., Reade C.C., Masroor, S., Chitwood Jr., W.R. Significant reduction in annuloplasty time with the use of nitinol clips in robotically-assisted mitral valve repair. *Society of Heart Valve Disease* 2005.
33. Cook, R.C., Nifong, L.W., **Kypson**, A.P., Chitwood Jr., W.R. Robotically-assisted repair of anterior mitral valve leaflet prolapse. *Society of Heart Valve Disease* 2005.
34. Cook R.C., Nifong, L.W., Law, Y.B., **Kypson**, A.P., Chitwood Jr., W.R. Minimally-invasive cryo-maze for atrial fibrillation with and without concomitant mitral regurgitation. *Society of Heart Valve Disease* 2005.
35. Cook, R.C., Nifong, L.W., Lashley, G.G., Duncan, R.A., Campbell, J.A., Law, Y.B., **Kypson**, A.P., Chitwood, Jr., W.R. Echocardiographic measurements alone do not allow for accurate non-invasive selection of annuloplasty band size in robotic mitral repair. *Society of Heart Valve Disease* 2005.

36. Reade, C.C., Moten, S., Rodriguez, E., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Technical considerations in minimally invasive cryo-ablation for lone atrial fibrillation. *New Era Cardiac Care* p. 45-6. 2006.
37. Moten, S.C., Rodriguez, E., Phade, S., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Minimally invasive cryo-maze procedure: results for lone atrial fibrillation. *New Era Cardiac Care* p. 50-1. 2006.
38. Tyson H., Muller-Borer B., Cascio W., Chitwood Jr. W.R., **Kypson** A.P. Cell therapy infusion device. *New Era Cardiac Care* p.55-6. 2006.
39. **Kypson** A. What is the best tissue valve? *NewEra Cardiac Care* p.38. 2006.
40. **Kypson** A. Biventricular pacing: detailed review. *NewEra Cardiac Care* p.60-61. 2006.
41. Gunst P.R., Collins M, Burrows B.J., **Kypson**, A.P., Muller-Borer, B.J. Viability of mesenchymal stem cells labeled with quantum dot nano particles. *20th Annual Research Day at ECU.* p.14. 2006.
42. Tyson G.H., Rodriguez E., Williams S., Jones P., Freund W., Phade S., Williams J.M., Koutlas T.C., Ferguson T.B., Chitwood W.R., **Kypson**, A.P. The effect of “super obesity” on adverse outcome after cardiac surgical procedures. *17th Annual Residents’ Research Day at ECU.* 2006.
43. Tyson H., Williams S., Sun Y., Collins M., Nifong L.W., Rodriguez E., Chitwood W.R., Muller-Borer B., Kypson A.P. Mechanical inefficiency of intramyocardial injection for cellular transplantation. *17th Annual Residents’ Research Day at ECU.* 2006.
44. Tyson G.H., Rodriguez E., Williams S., Jones P., Freund W., Phade S., Williams J.M., Koutlas T.C., Ferguson T.B., Chitwood W.R., **Kypson**, A.P. The effect of “super obesity” on adverse outcome after cardiac surgical procedures. *Southern Thoracic Surgical Association Program.* p.128. 2006.
45. Muller-Borer B., Gunst P.R., Collins M.C., Cascio W.E., **Kypson** A.P. Long-term labeling of mesenchymal stem cells using quantum dot bioconjugates. *Circulation* Volume 114, No.18, p.II-662. 2006.
46. **Kypson** A.P., Dahl S., Blum J., Li Y., Strader J., Niklason L. Novel tissue-engineered conduits as vascular grafts. *NewEra Cardiac Care* 2007.
47. **Kypson** A.P., Tyson H., Collins M., Sun Y., Nifong L.W., Muller-Borer B. Significant mechanical loss is associated with direct intramyocardial injection for cellular cardiomyoplasty. *Journal of Surgical Research* Volume 137, No.2, p.295. 2007.

48. Collins M.C., Hudson W., deFreitas D., Sun Y.S., Muller-Borer B.J., **Kypson** A.P. Beating and arrested intramyocardial injections are associated with significant mechanical loss: implications for cardiac cell transplantation. *Department of Internal Medicine, Research Day*, East Carolina University, 2007.
49. Tyson G.H., Rodriguez E., Cinar Elci O., Koutlas T.C., Williams J.M., Moran J., Anderson C.A., Chitwood W.R., Ferguson T.B., **Kypson** A.P. Outcomes in patients with a BMI >45 undergoing cardiac surgery. *Diabetes and Obesity Center Research Day*, East Carolina University, 2007.
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MANUSCRIPTS

1. **Kypson**, A.P., Akhter, S.A., Peppel, K., Lilly, R.E., Dolber, P., Glower, D.D., Lefkowitz, R.J., Koch, W.J. Global overexpression of β -adrenergic receptors in the myocardium via adenoviral-mediated gene transfer. *Surgical Forum* Volume XLVII, p.282-4. 1996.
2. Lilly, R.E., Peppel, K., **Kypson**, A.P., Silvestry, S.C., Glower, D.D., Koch, W.J., Lefkowitz, R.J. Intracoronary administration of adenovirus for gene transfer into adult rabbit myocardium. *Surgical Forum* Volume XLVII, p.279-281. 1996.
3. Sabiston Jr., D.C., **Kypson**, A.P., Friesinger, G.C. Severe stenosis of the left main coronary artery with endarterectomy and graft:33-year follow-up. *Annals of Thoracic Surgery* Volume 64, No.5, p.1559-60. 1997.
4. **Kypson**, A.P., Daggett, C.W., Channon, K.M., Gullotto, C., George, S.E., Koch, W.J. *In vivo* pulmonary adenoviral-mediated gene transfer of nitric oxide synthase increases nitric oxide production. *Surgical Forum* Volume XLVIII, p.333-5. 1997.
5. **Kypson**, A.P., Akhter, S.A., Skaer, C.A., McDonald, P.H., Peppel, K.C., Glower, D.D., Lefkowitz, R.J., Koch, W.J. Restoration of β -adrenergic signaling in failing cardiac ventricular myocytes via adenoviral-mediated gene transfer. *Proceedings of the National Academy of Sciences, USA*. Volume 94, p.12100-5. 1997.
6. **Kypson**, A.P., Peppel, K., Akhter, S.A., Lilly, R.E., Glower, D.D., Lefkowitz, R.J., Koch, W.J. *Ex vivo* adenoviral-mediated gene transfer in the transplanted adult rat heart. *Journal of Thoracic and Cardiovascular Surgery* Volume 115, No.3, p.623-30. 1998.

7. Shah, A.S., Hata, J.A., **Kypson**, A.P., Glower, D.D., Koch, W.J. Adenoviral-mediated overexpression of the beta-adrenergic receptor kinase inhibitor in a cardiac transplant model. *Surgical Forum* Volume XLIX, p.278-9. 1998.
8. Hughes, G.C., Lowe, J.E., **Kypson**, A.P., St.Louis, J.D., Pippen, A.M., Peters, K.G., Coleman, R.E., DeGrado, T.R., Donovan, C.L., Annex, B.H., Landolfo, K.P. Neovascularization after transmyocardial laser revascularization in a model of chronic ischemia. *Annals of Thoracic Surgery* Volume 66, No.6, p.2029-36. 1998.
9. Maurice, J.P, Shah, A., **Kypson**, A.P., Hata, J., White, D.C, Glower, D.D., Koch, W.J. Molecular β -adrenergic signaling abnormalities in failing rabbit hearts after infarction. *American Journal of Physiology* Volume 276, Issue 6, p. H1853-60. 1999.
10. Hughes, G.C., **Kypson**, A.P., St.Louis, J.D., Annex, B.H., Coleman, R.E., DeGrado, T.R., Donovan, C.L., Lowe, J.E., Landolfo, K.P. Improved perfusion and contractile reserve after transmyocardial laser revascularization in a model of hibernating myocardium. *Annals of Thoracic Surgery* Volume 67, No.6, p.1714-20. 1999.
11. **Kypson**, A.P., Hendrickson, S.C., Akhter, S.A., Wilson, K., McDonald, P.H., Lilly, R.E., Dolber, P.C., Glower, D.D., Lefkowitz, R.J., Koch, W.J. Adenoviral-mediated gene transfer of the β_2 -adrenergic receptor enhances cardiac function. *Gene Therapy* Volume 6, No.7, p.1298-1304. 1999.
12. Hughes, G.C., Annex, B.H., Yin, B., Pippen, A.M., Lin, P., **Kypson**, A.P., Peters, K.G., Lowe, J.E., Landolfo, K.P. Transmyocardial laser revascularization (TMR) limits in vivo adenoviral-mediated gene transfer in porcine myocardium. *Cardiovascular Research* Volume 44, No. 1, p. 81-90. 1999.
13. Shah, A.S., Lilly, R.E., **Kypson**, A.P., Tai, O., Hata, J.A., Baklanov, D., Glower, D.D., Koch, W.J. In vivo intracoronary delivery to and overexpression of the human β_2 -adrenergic receptor in the right ventricle: prospects for molecular right ventricular assistance. *Surgical Forum* Volume L, p.119-20. 1999.
14. Hughes, G.C., **Kypson**, A.P., Yin, B., St.Louis, J.D., Biswass, S.S., Annex, B.H., Coleman, R.E., DeGrado, T.R., Donovan, C.L., Landolfo, K.P., Lowe, J.E. Induction of angiogenesis following transmyocardial laser revascularization in a model of chronic ischemia: a comparison of holmium:YAG, carbon dioxide, and excimer lasers. *Surgical Forum* Volume L, p.115-7. 1999.
15. Shah, A.S., Lilly, R.E., **Kypson**, A.P., Tai, O., Hata, J.A., Pippen, A., Silvestry, S.C., Lefkowitz, R.J., Glower, D.D., Koch, W.J. Intracoronary delivery and overexpression of the β_2 -adrenergic receptor in the heart: prospects for molecular VAD. *Circulation* Volume 101, No.4, p.408-14. 2000.

16. St. Louis, J.D., Hughes, G.C., **Kypson**, A.P., DeGrado, T.R., Donovan, C.L., Coleman, R.E., Yin, B., Steenbergen, C., Landolfo, K.P., Lowe, J.E. An experimental model of chronic myocardial hibernation. *Annals of Thoracic Surgery* Volume 69, No.5, p.1351-57. 2000.
17. Shah, A.S., Atkins, B.Z., Hata, J.A., Tai, O., **Kypson**, A.P., Lilly, R.E., Davis, J.W., Koch, W.J., Glower, D.D. Early effects of right ventricular volume overload on ventricular performance and beta-adrenergic signaling. *Journal of Thoracic and Cardiovascular Surgery* Volume 120, No.2, p.342-9. 2000.
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19. Shah, A.S., White, D.C., Tai, O., Hata, J.A., Wilson, K.H., Pippen, A., **Kypson**, A.P., Glower, D.D., Lefkowitz, R.J., Koch, W.J. Adenovirus-mediated genetic manipulation of the myocardial β -adrenergic signaling system in transplanted hearts. *Journal of Thoracic and Cardiovascular Surgery* Volume 120, No.3, p.581-8. 2000.
20. **Kypson**, A.P., Wentzensen, N., Georgiade, G.S., Vaslef, S.N. Traumatic vertebrojugular arteriovenous fistula: a case report. *Journal of Trauma* Volume 49, No.6, p.1141-3. 2000.
21. Shah, A.S., White, D.C., Emani, S., **Kypson**, A.P., Lilly, R.E., Wilson, K., Glower, D.D., Lefkowitz, R.J., Koch, W.J. In vivo ventricular gene delivery of a β -adrenergic receptor kinase inhibitor to the failing heart reverses cardiac dysfunction. *Circulation* Volume 103, No.9, p.1311-6. 2001.
22. Glower, D.D., Landolfo, K.P., **Kypson**, A.P., Bashore, T.M., Harrison, K., Wang, A., Warner, J.J. Is port-access applicable to complex mitral valve repair? *Heart Surgery Forum* Volume 5, Supp.1, p. S76-87. 2002.
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24. **Kypson**, A.P., Glower, D.D. Minimally invasive tricuspid surgery using port-access. *Annals of Thoracic Surgery* Volume 74, No.1, p. 43-5. 2002.
25. **Kypson**, A.P., Onaitis, M.W., Feldman, J.M., Tyler, D.S. Carcinoid and chylous ascites: an unusual association. *Journal of Gastrointestinal Surgery* Volume 6, No.5, p. 781-3. 2002.

26. **Kypson, A.P.**, Warner, J.J., Telen, M.J., Milano, C.A. Paroxysmal cold hemoglobinuria and cardiopulmonary bypass: a case report. *Annals of Thoracic Surgery* Volume 75, No.2, p. 579-81. 2003.
27. **Kypson, A.P.**, Morpew, E., Jones, R., Gottfried, M.R., Seigler, H.F. Heterotopic ossification in rectal cancer: a rare finding with a novel proposed mechanism. *Journal of Surgical Oncology* Volume 82, No.2, p. 132-6. 2003.
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29. Chitwood Jr., W.R., **Kypson, A.P.**, Nifong, L.W. Robotic mitral valve surgery: a technologic and economic revolution for heart centers. *American Heart Hospital Journal* Volume 1, No.1, p.30-9. 2003.
30. **Kypson, A.P.**, Nifong, L.W., Chitwood Jr., W.R. Robotic mitral valve surgery. *Seminars in Thoracic and Cardiovascular Surgery* Volume 15, No.2, p. 121-9. 2003.
31. **Kypson, A.P.**, Nifong, L.W., Chitwood Jr., W.R. Robotic mitral valve surgery. *Surgical Clinics of North America* Volume 83, No.6, p. 1387-1403. 2003.
32. **Kypson, A.P.**, Nifong, L.W., Chitwood Jr., W.R. Robotic cardiac surgery. *Journal of Long-Term Effects of Medical Implants* Volume 13, No.6, p. 451-64. 2003.
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54. Reade, C.C., **Kypson, A.P.**, Williams, J.M. Valve sparing aortic root replacement after prior Starr-Edwards aortic valve replacement. *The Journal of Heart Valve Disease* Volume 14, No. 5, p. 695-6. 2005.
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65. Muller-Borer B, Gunst PR, Collins MC, Cascio WE, **Kypson** AP. Quantum dot labeling of mesenchymal stem cells. *J of Nanobiotechnology* Volume 5, No 1, p. 9-17. 2007.
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VIDEOS

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2. **Kypson**, A.P., Glower, D.D. Tricuspid repair using port access. Southern Thoracic Surgical Association. 2001.
3. Chitwood, W.R., Nifong, L.W., **Kypson**, A.P., Bolotin, G., Bower, C.E., Fuller, J.D. Robotic mitral valve repair. American College of Surgeons. 2002.
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BOOK CHAPTERS

1. **Kypson**, A.P., Ludwig, K. Laparoscopic Colectomy and Abdominoperineal Resection. In *Atlas of Laparoscopic Surgery*, 2nd edition, Philadelphia, Appleton & Lange. pp. 12.1-12.13. 1999.
2. **Kypson**, A.P. Cardiopulmonary Resuscitation. In *Surgical Intensive Care Handbook of Duke University*, 5th edition, St. Louis, Mosby. pp. 39-57. 2000.
3. **Kypson**, A.P., Chitwood Jr., W.R. Cardiopulmonary Bypass during Port-Access™ and Robotic Surgery. In *Techniques in Extracorporeal Circulation*, 4th edition, London, Arnold. pp. 298-314. 2004.
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5. **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Robotic and novel visualization systems in *Sabiston & Spencer's Surgery of the Chest*, 7th edition, Philadelphia, Elsevier Saunders. pp. 1385-1396. 2005.

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7. **Kypson, A.P.**, Nifong, L.W., Chitwood Jr., W.R. Mitral valve repair- robotic minimally invasive in *Mastery of Cardiothoracic Surgery*, 2nd edition, Philadelphia, Lippincott Williams& Wilkins. pp. 353-68. 2006.
8. Chitwood Jr., W.R. **Kypson, A.P.** Evolving endoscopic and robotic techniques in *Mastery of Surgery*, 5th edition, Philadelphia, Lippincott Williams & Wilkins. pp. 242-51. 2007.
9. **Kypson, A.P.**, Nifong, L.W., Chitwood Jr., W.R. Robotic assisted mitral valve repair in *Washington Institute Manual of Thoracic and Cardiovascular Surgery*, McGraw-Hill (in press).
10. Moten, S, **Kypson, A.P.**, Chitwood Jr., W.R. Use of robotics in other surgical specialties. *Robotics in Urologic Surgery* Philadelphia, Elsevier Saunders (in press).
11. **Kypson, A.P.**, Chitwood Jr., W.R. Robotic mitral valve surgery. *Polish Cardiac Surgery*, Panstwowy Zakład Wydawnictw Lekarskich (submitted).

CLINICAL INVESTIGATIONS/GRANTS

1. **Co-PI**, Corgentech PREVENT IV Study (CGTOO3-04), “A phase III, multi-center randomized, double-blind, placebo-controlled trial of the ex vivo treatment with CGTOO3 of coronary vein grafts in patients undergoing coronary artery bypass graft procedures.” 2002. (\$24,750)
2. **PI**, HEMASEEL APR Study (BPL 100), “A phase III two-part, randomized, comparative, multicenter study of HEMASEEL APR manufactured at BPL to a control agent and to HEMASEEL APR manufactured at Immuno AG.” 2003. (\$3,000)
3. **PI**, TELFA AMD Island dressing, “Effects on wound healing and incidence of sternal wound infections in subjects who have undergone cardiac surgical procedures requiring median sternotomy.” 2004. (\$146,616)
4. **PI**, PRIMO-CABG II (#2003141), “A multicenter, randomized, double-blind, parallel-group, placebo-controlled study of 2 mg/kg bolus plus 24-hour 0.05 mg/kg/hr infusion of pexelizumab in patients undergoing coronary artery bypass grafting with cardiopulmonary bypass.” 2004-6. (\$221,430)

5. **PI**, INSPIRE “A randomized, multicenter, placebo-controlled double-blind, parallel group study of INS50589 intravenous infusion in subjects undergoing coronary artery bypass graft surgery involving cardiopulmonary bypass.” 2006.
6. **PI**, “Assessment of myocardial cellular transplantation via multiple delivery modes.” Stephen Rosenberg Foundation. 2005-6. (\$250,000)
7. **PI**, “A randomized, double-blind, placebo-controlled, parallel group, multicenter, proof of concept clinical study of CTI-01 in patients undergoing major cardiac surgery with cardiopulmonary bypass.” \$69,260. 2005.
8. **PI**, “Effects of cardiopulmonary bypass on adult stem cell transplantation” East Carolina University, Division of Research and Graduate Studies. \$25,000. 2006-7. (awarded)
9. **PI**, “Novel engineered vascular grafts for coronary artery bypass surgery” National Institute of Health, STTR grant. \$257,165. 2006. (submitted)
10. **PI**, “Decellularized engineered vascular grafts” Humacyte. \$33,109. 2006-7.

EDITORIAL BOARDS

1. Minimally Invasive Surgery Center, *CTS Net*

REVIEWER

1. *American Heart Journal*
2. *Asian Cardiovascular and Thoracic Annals*
3. *Current Surgery*
4. *American College of Cardiology*, Abstract Grader 2003, 2004
5. Ad Hoc Abstract Grader, *Society of Heart Valve Disease*, 2005
6. *Journal of Thoracic and Cardiovascular Surgery*
7. *Science*
8. *Circulation*
9. *Journal of the American College of Cardiology*

10. *Expert Review of Cardiovascular Therapy*
11. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*

PRESENTATIONS

1. 82nd Clinical Congress of the American College of Surgeons, San Francisco, CA, October 9, 1996.
2. 77th Annual Meeting of the American Association for Thoracic Surgery, Washington, D.C., May 7, 1997.
3. 83rd Clinical Congress of the American College of Surgeons, Chicago, IL, October 15, 1997.
4. 70th Scientific Sessions of the American Heart Association, Orlando, FL, November 12 , 1997.
5. 87th Clinical Congress of the American College of Surgeons, New Orleans, LA, October 8, 2001.
6. 48th Annual Meeting of the Southern Thoracic Surgical Association, San Antonio, TX, November 7, 2001.
7. 6th Annual NewEra Cardiac Care, “Perfusion for Robotic and Minimally Invasive Cardiac Surgery” Dana Point, CA, January 3, 2003.
8. “Remote Access Perfusion Techniques for Minimally Invasive Cardiac Surgery” San Diego, CA, January 30-1, 2003.
9. 7th Annual NewEra Cardiac Care, “Perfusion for Minimally Invasive Cardiac Surgery” Dana Point, CA, January 10, 2004.
10. 53rd Annual Scientific Session, American College of Cardiology, “Robotic Valvular Surgery” New Orleans, LA, March 9, 2004.
11. 2nd Congress of the Polish Society of Cardiothoracic Surgeons, “Minimally Invasive Surgery of the Mitral Valve” Katowice, Poland, May 13, 2004.
12. Carolina Valve Symposium, “Percutaneous Valve Technology” Greenville, NC, September 28, 2004.
13. 2nd Annual Carolina Valve Symposium, “Percutaneous and Trans-ventricular Valve Technology” Greenville, NC, May 3, 2005.

14. 11th Annual Eastern Regional Cardiovascular Conference, “Cellular Therapy for Myocardial Regeneration” Greenville, NC, October 26, 2005.
15. 9th Annual NewEra Cardiac Care, “What is the best tissue valve?” Newport Beach, CA, January 7, 2006.
16. 9th Annual NewEra Cardiac Care, “Biventricular pacing: a detailed review” Newport Beach, CA, January 8, 2006.
17. Eastern NC Chapter 23, The Mended Hearts, INC “Cardiac Tissue Engineering” Greenville, NC, May 4, 2006.
18. 1st International Symposium Robotic Surgery, “Cannulation and Aortic Occlusion for Robotic Valve Surgery” Chicago, IL, October 6, 2006.
19. 43rd Annual Society of Thoracic Surgeons, STS-University Course, “Cardiopulmonary bypass for minimally invasive and robotic surgery” San Diego, CA, January 31, 2007.
20. 2nd Annual Academic Surgical Congress, “Significant mechanical loss is associated with direct intramyocardial injection for cellular cardiomyoplasty” Phoenix, AZ, February 9, 2007.
21. Surgical Grand Rounds, East Carolina University, “Cellular cardiomyoplasty: an update” Greenville, NC, April 25, 2007.
22. Cardiac Surgery Biology Club (87th Annual American Association for Thoracic Surgery), “Manipulating cardiac tissue: implications for cell transplantation and ischemic heart disease” Washington, DC, May 5, 2007.
23. Cardiac Surgery Master Course, “Perfusion issues related to minimally invasive mitral valve surgery” Greenville, NC, May 10, 2007.
24. Cardiac Surgery Master Course, “Perfusion issues related to minimally invasive mitral valve surgery” Greenville, NC, October 18, 2007.

MODERATOR

1. Abstract Session, 6th Annual NewEra Cardiac Care Meeting, Dana Point, CA. 2003.
2. Perfusion Mini-Symposium, 7th Annual NewEra Cardiac Care Meeting, Dana Point, CA. 2004.

3. Video Session, 7th Annual NewEra Cardiac Care Meeting, Dana Point, CA. 2004.
4. Meet the Experts, 53rd Annual Scientific Session, American College of Cardiology, “Robotic Valvular Surgery” New Orleans, LA. 2004.
5. Carolina Valve Symposium, Greenville, NC. 2004.
6. 2nd Annual Valve Symposium, Greenville, NC. 2005.
7. Videofest and Bullet Abstracts, 9th Annual NewEra Cardiac Care Meeting, Newport Beach, CA. 2006.
8. 50th Annual Meeting of the North Carolina Chapter, American College of Surgeons, Myrtle Beach, SC. 2006.
9. Oral Abstract Session, American Heart Association, Scientific Sessions 2006, Chicago, IL. 2006.

INTERNET PUBLICATIONS

1. Smith, P., **Kypson**, A.P. Rate-control versus conversion strategy in postoperative atrial fibrillation: a prospective, randomized pilot study. Review in *CT Digest.Com* Volume 3, No.4. p. 5. <http://ctdigest.com/Apr01/Apr01.asp?rev=5>
2. Reade, C.C., Bowyer, C.E., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Combining robotic mitral valve repair and microwave atrial fibrillation ablation. *CTSnet* (Motion Picture) http://www.ctsnet.org/realmedia/vidgal/vg2004_reade_robotic.ram
3. Reade, C.C., Bower, C.E., Bailey, B.M., **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Robotic Mitral Valve Annuloplasty Utilizing Double Arm Nitinol U-Clips. *CTSnet* (Motion Picture) rtsp://pune.medbiq.com/c1/STSA/Reade_MVR_2003.rm
4. **Kypson**, A.P., Nifong, L.W., Chitwood Jr., W.R. Robot-assisted surgery: training and re-training surgeons. *International Journal of Medical Robotics and Computer Assisted Surgery*. <http://www.roboticpublications.com>
5. **Kypson**, A.P. Minimally invasive cardiopulmonary bypass- oxymoron or not? *CTSnet*. <http://www.ctsnet.org/doc/9268>
6. **Kypson**, A.P. Clinical experience with the mini-extracorporeal circulation system: an evolution or revolution? *CTSnet*. <http://www.ctsnet.org/doc/9468>

7. **Kypson, A.P.** Cardiac surgery “mini” revolution. *CTSnet*.
<http://www.ctsnet.org/sections/innovation/minimallyinvasive/articles/article-24.html>

COMMITTEES/SERVICE

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2. Acute Chest Pain Unit, Eastern Carolina Cardiovascular Institute
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5. Program Committee, American College of Surgeons, North Carolina Chapter, 50th Annual Meeting
6. Director, Clinical Trials Advisory Committee, East Carolina Heart Institute
7. Cardiac Surgery Outreach, East Carolina Heart Institute (Goldsboro, Wilmington)
8. Judge, 17th Annual Resident’s Research Day, Department of Surgery, Brody School of Medicine, ECU. May 31, 2006
9. Faculty Advisor, Summer Scholars Student Research Program, Brody School of Medicine, ECU. 2007
10. Cardiac Surgery Surgical Site Infection Surveillance Committee, Pitt County Memorial Hospital 2007
11. Rapid Response Team, Pitt County Memorial Hospital. 2007
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CONSULTANT

2003	Ethicon
2006	Inspire Pharmaceuticals
2006-present	Humacyte, Inc.