

Gary A. Tuma, MD, FACS

Office Address:

Plastic Surgery Associates of New Jersey
850 Bear Tavern Road, Suite 309
Ewing, NJ 08628
(609) 394-6414
www.plasticsurgeryofnj.com

Education:

1988-1992 **Boston College**
B.S. Biology
1992-1996 **Jefferson Medical College**
Doctorate in Medicine

Residency:

1996-2002 **Jefferson University Hospital**
Department of Surgery
1999-2000 **University of Pennsylvania**
Harrison Research Fellow
Division of Plastic Surgery
2002-2005 **Emory University Hospital**
Division of Plastic Surgery

Hospital Appointments:

2005-2010 **Jefferson University Hospital**
Division of Plastic Surgery
2005-2010 **Albert Einstein Medical Center**
Division of Plastic Surgery
2008-2010 **Methodist Hospital**
Division of Plastic Surgery
2011-Present **Capital Health**
Director, Plastic and Reconstructive Surgery

Board Certification:

2003-Present Board Certification in General Surgery
2006-Present Board Certification in Plastic Surgery

Licensure:

2005-Present State of Pennsylvania-MD066425-L
2010-Present State of New Jersey-25MA08823900

Appointments:

1988-1992 Liaison, Student-Athlete Committee
Boston College-Athletic Director Appt.
1991-1992 Co-Chairman, Student-Athlete Career Day
Boston College-Committee Appt.

1992-1993	Co-Chairman, Big East Athletes Care <i>Boston College-Committee Appt.</i>
1992-1993	Liaison, Committee for Medical Education <i>Jefferson Medical College-Dean Appt.</i>
1992-1996	Class Representative, Student Government <i>Jefferson Medical College-Peer Appt.</i>
1996-2002	Resident Representative, Education Committee <i>Jefferson University Hospital-Chairman Appt.</i>
2002-2005	Resident Representative, IT Committee <i>Jefferson University Hospital</i>
2004-2005	Chief Resident in Plastic Surgery <i>Emory University Hospital-Chairman Appt.</i>
2005-2009	Instructor in Surgery
2006-Present	Executive Committee <i>Jefferson Alumni Association</i>
2006-Present	America's Top Surgeons
2009-Present	Assistant Clinical Professor Surgery <i>Jefferson Medical College</i>

Memberships:

1988-1992	Varsity Lacrosse, Boston College- <i>Letterman</i>
1988-1992	Mendel Club
1992-1996	Gibbon Surgical Society
2009-Present	Robert H Ivy Society <i>Pennsylvania Plastic Surgery Society</i>
2010-Present	Fellow American College of Surgeons
2005-Present	Member- <i>American Society of Plastic Surgeons</i>

Grants:

Principal Investigator Pilot Study Research Grant "Use of Versajet for removal of Biofilm." June 2010 <i>Plastic Surgery Education Foundation</i> (\$7500.00)
Recipient with Dr. Louis P. Bucky (Principle Investigator) "Human Preadipocytes as a Source for Pluripotential Mesenchymal Stem Cells". March 2000 <i>Aesthetic Surgery Education and Research Foundation</i> (\$5000.00)
Dr. Louis P. Bucky and Darrin Hubert "An Analysis of Growth Factors Responsible for Adipocyte Proliferation". March 2000 <i>Aesthetic Surgery Education and Research Foundation</i> (\$8700.00)

Awards:

Top Medical Student Entering General Surgery, June 1996 <i>Jefferson Medical College-Chairman Appointed</i>

(\$500.00)

First Place Basic Science-Robert H. Ivy Society March 2000
“The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”, Philadelphia PA.
Presenter: Christopher P. Godek, M.D.

First Place Resident Competition-North Eastern Plastic Surgical Society
“The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”, Montreal Canada.
September 2000
Presenter: Christopher P. Godek, M.D.

First Place Resident Competition-Philadelphia Academy of Surgeons
“The relationship between human preadipocytes and mesenchymal stem cells”, Philadelphia, Pennsylvania.
February 2001.
Presenter Gary A. Tuma, M.D.

First Place Poster Presentation Phi Chi Society Jefferson
“Paraspinal muscle flap coverage for salvage of infected hardware.”, Philadelphia, Pennsylvania
April 2008
Presenter Alex Mericilli

Research Interests:

Database of Spinal Wound Reconstruction
Laboratory Founder Emory University, Division of Plastic Surgery
Tissue Engineering Involving Adipose Tissue for Soft Tissue Defects
Mesenchymal Stem Cells and Cell Differentiation
Microvascular Techniques for Testicular Transplantation in Dogs
Investigational Instrumentation for Clinical Application

Presentations:

1. Godek, C.P., **Tuma, G.A.**, Hubert, D.M., Zhang, P., Bucky, L.P.
“The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”. Robert H. Ivy Society. Philadelphia, Pennsylvania. March 2000

Presentations:

2. Hubert, D.M., Godek, C.P., **Tuma, G.A.**, Gordon, A.R., Bucky, L.P.
“Human lipomas vs. normal fat: A quantitative analysis of growth factors responsible for adipose proliferation”. Robert H. Ivy Society. Philadelphia, Pennsylvania. March 2000

3. **Tuma, G.A.**, Godek, C.P., Hubert, D.M., Bucky, L.P. “The investigation of fat transplantation for soft tissue augmentation”. Harrison Research. Philadelphia, Pennsylvania. March 2000
4. **Tuma, G.A.**, Krupnick, A.S., Godek, C.P., Adzick, N.S., Flake, A.W., Bucky, L.P. “The relationship between human preadipocytes and mesenchymal stem cells”. The Plastic Surgery Research Council. Seattle, Washington. May 2000
5. Godek, C.P., **Tuma, G.A.**, Hubert, D.M., Zhang, P., Bucky, L.P. “The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”. The Plastic Surgery Research Council. Seattle, Washington. May 2000
6. Hubert, D.M., Godek, C.P., **Tuma, G.A.**, Gordon, A.R., Bucky, L.P. “Human lipomas vs. normal fat: A quantitative analysis of growth factors responsible for adipose proliferation”. The Plastic Surgery Research Council. Seattle, Washington. May 2000
7. **Tuma, G.A.**, Krupnick, A.S., Godek, C.P., Adzick, N.S., Flake, A.W., Bucky, L.P. “The relationship between human preadipocytes and mesenchymal stem cells”. NESPS, Montreal, Canada. September 14-16, 2000
8. Godek, C.P., **Tuma, G.A.**, Hubert, D.M., Zhang, P., Bucky, L.P. “The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”. NESPS, Montreal, Canada. September 14-16, 2000
9. **Tuma, G.A.**, Krupnick, A.S., Godek, C.P., Adzick, N.S., Flake, A.W., Bucky, L.P. “The relationship between human preadipocytes and mesenchymal stem cells”. ASPS/PFEF/ASMS Scientific Meeting, Los Angeles, California. October 2000
10. Godek, C.P., **Tuma, G.A.**, Hubert, D.M., Zhang, P., Bucky, L.P. “The use of preadipocytes for soft-tissue augmentation: A volumetric and histologic analysis”. ASPS/PFEF/ASMS Scientific Meeting, Los Angeles, California. October 2000

Presentations:

11. **Tuma, G.A.**, “Reconstructive surgery in the trauma patient”. LaSalle School of Nursing Wound Care Management, Philadelphia, Pennsylvania. February 2001

12. **Tuma, G.A.**, “Reconstructive surgery in the trauma patient”. LaSalle School of Nursing Wound Care Management, Philadelphia, Pennsylvania. February 2002
13. **Tuma, G.A.**, Stein, D. “Endovascular vs. Open repair of AAA, a surgical debate”. Jefferson Department of Surgery Grand Rounds, Philadelphia, Pennsylvania. April 2002
14. **Tuma, G.A.** “Preadipocytes a Source for Tissue Engineering and Soft Tissue Augmentation”. Emory Department of Surgery Grand Rounds, Atlanta, Georgia August 2004
14. J. K. Pullium, R. Milner, **Tuma, G.A.**, and P. H. Lin. Long-term fertility after homologous prepubertal testis transplantation in the dog. XVIII North American Testis Workshop. March 30 - April 2, 2005. Seattle, WA.
14. Pullium JK, Milner R, and **Tuma GA** : Pregnancy following homologous ovarian transplantation in the prepubertal dog. Reproduction: Advances and Challenges, Santa Fe , NM . February 20-25, 2007
17. Pullium JK, Milner R, **Tuma GA** , and Lin PH: Fertility after homologous prepubertal testis transplantation in the dog. 10th Congress of Asian Society of Transplantation, Pattaya , Thailand December 1-4, 2007
18. Mericli AF, Tarola N, Moore J, Fox J, Copit S, **Tuma G.** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. 25th Annual Meeting of the Northeastern Society of Plastic Surgeons. Philadelphia, PA, October 3, 2008
19. Mericli AF, Tarola N, Moore J, Fox J, Copit S, **Tuma G.** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. 54th Annual Meeting of the Robert H. Ivy Society of Plastic Surgeons. King of Prussia, PA, April 12, 2008

Presentations:

20. Mericli AF, Tarola N, Moore J, Fox J, Copit S, **Tuma G.** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. American Society of Plastic Surgeons Annual Meeting. Chicago, Il, November 4, 2008

Articles:

1. Rosen, A., Rosen, D., **Tuma, G.A.**, Bucky, L.P. RF/Microwave Assisted Tumescant Liposuction (Institute of Electrical And Electronic Engineers) Transactions on Microwave Theory and Techniques, Special Issue Biological Effects and Medical Applications, November 2000.
2. Jennifer K Pullium, Ross Milner and **Gary A Tuma** Pregnancy following homologous prepubertal ovarian transplantation in the dog *Journal of Experimental & Clinical Assisted Reproduction* 2008, 5:1
3. Pullium JK, Milner R, **Tuma GA**, Lin PH. Fertility after homologous prepubertal testis transplantation in the dog. *Transplant Proc.* 2008 Oct :40(8):2744-9
4. Mericli AF, Moore JH, Fox JW, Copit SE, **Tuma GA.** Interesting Case # 19: Management of complex spinal wounds. *ePlasty.* 2009. Feb; 9: 1-4
5. Mericli AF, Moore JH, Fox JW, Copit SE, **Tuma GA.** Technical changes in paraspinous muscle flap surgery have increased salvage rates of infected spinal wounds. *ePlasty.* 2008. Oct; 8: 456-64
6. Mericli AF, Tarola N, Moore JH, Fox JW, Copit SE, **Tuma GA,** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. Formal synopsis. *Plast Reconstr Surg.* 2008. Oct; 122(4S): 64-65
7. Mirzabeigi MN, Moore JH Jr, **Tuma GA,** The use of Permacol((R)) for chest wall reconstruction in a case of desmoid tumor resection. <http://www.ncbi.nlm.nih.gov/pubmed/20430710> *J Plast Reconstr Aesthet Surg.* 2010 Apr 27. [Epub ahead of print] PMID: 20430710 [PubMed - as supplied by publisher]

Articles:

8. Sailes FC, Walls J, Guelig D, Mirzabeigi M, Long WD, Crawford A, Moore JH Jr, Copit SE, Tuma GA, Fox J. Ventral hernia repairs: 10-year single-institution review at Thomas Jefferson University Hospital. *J Am Coll Surg.* 2011 Jan;212(1):119-23. Epub 2010 Nov 5. No abstract available. PMID: 21115373 [PubMed - in process]

Book Chapters:

Bucky, L.P., **Tuma, G.A.**, “Breast Reconstruction” Breast Cancer- A Guide to Detection and Multidisciplinary Therapy: Torosian, M.H. (ed.) The Humana Press Inc., 1999

Tuma, G.A., Copit, S., “Reconstructive Surgery of the Breast” Clinics Atlas of Office Procedures: Curcillo, P. (ed.) W.B. Sanders, 2000

Tuma, G.A., Hester, T.R., “Burn Reconstruction” Medical Management of the Surgical Patient: Smith, R. (ed.) Hosworthy, 2004

Tuma, G.A., Hester, T.R., “Breast Reconstruction” Medical Management of the Surgical Patient: Smith, R. (ed.) Hosworthy, 2004

Tuma, G.A., “Melanoma” Review in Plastic Surgery Emory University

Tuma, G.A., “Wound Healing” Review in Plastic Surgery Emory University

Poster Presentation:

Tuma, G.A., Godek, C.P., Hubert, D.M., Zhang, P., Bucky, L.P. Human Fat as a Soft Tissue Augmentor, Comparison of Fresh Vs. Frozen Tissue in a Nude Mouse Model. ASPS/PFEF/ASMS Scientific Meeting, Los Angeles, California. October 2000

Merikli AF, Tarola N, Moore J, Fox J, Copit S, **Tuma G.** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. Annual Conjoint Meeting of the Philadelphia Academy of Surgery and the New York Surgical Society. Philadelphia, PA, April 9, 2008

Poster Presentation:

Merikli AF, Tarola N, Moore J, Fox J, Copit S, **Tuma G.** Paraspinous Muscle Flap Reconstruction of Complex Midline Back Wounds: Risk Factors and Post-flap Complications at a Busy Regional Spine Center. Sigma Xi Research Day, Thomas Jefferson University. Philadelphia, PA, April 2, 2008 ****BEST POSTER WINNER****

Committees:

Volunteer Faculty Board of Governors-Jefferson Medical College
Admissions Committee-Jefferson Medical College
Alumni Executive Committee-Jefferson Medical College
Alumni Achievement Award Committee-Jefferson Medical College
Class Alumni Representative-Jefferson Medical College Class of 1996
OR Executive Committee-Jefferson University Hospital

Personal Interests:

Skiing, Lacrosse, Golfing, Dining Out, Gardening and Reading