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# Zol Buer Kryger, MD

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## Personal

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Date and Birthplace: April 10, 1971; Winnipeg, Manitoba, Canada

Citizenship: Canadian; Permanent U.S. Resident

Social Security: XXX-XX-4594

Marital Status: Married (Tracy Lynn Kryger) 2001  
2 children (Nathan and Caleb)

Current Address: 645 N. Kingsbury #1706, Chicago, IL. 60610  
(312) 654-0296

## Education and Medical Training

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1997: University of California, Santa Barbara,  
Neuroscience B.S; 3.99 GPA

1998: Microsurgical Research Fellowship,  
Buncke Microsurgery Center, Davies Medical Center

2000: Harvard Medical School,  
Externship in plastic surgery

2001: Stanford University School of Medicine,  
M.D. degree

2002: Northwestern University School of Medicine,  
Department of Surgery, general surgery internship

2004: Northwestern University School of Medicine,  
Department of Surgery, general surgery residency

2005: Northwestern University School of Medicine, Research Fellowship,  
Thomas A. Mustoe Wound Healing Laboratory

Present: Northwestern University School of Medicine, Division of Plastic and  
Reconstructive Surgery, plastic surgery residency

## Medical Licensing

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1999:	US Medical Licensing Exam, Step 1
2001:	US Medical Licensing Exam, Step 2
2002:	US Medical Licensing Exam, Step 3
2002:	Illinois State Medical License- Licensed #036-109744
2006:	California State Medical License- Licensed # A97742 DEA controlled substances- Licensed # BK9970559
2008 (anticipated):	American Board of Plastic Surgery, Certification- board eligible

## Special Certifications

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1998:	Basic Life Support (BLS)
2001:	Advanced Cardiac Life Support (ACLS)
2003:	Advanced Trauma Life Support (ATLS)

## Academic Honors

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1993-1997:	<u>Dean's Honors List</u> - every quarter in university for the highest level of academic achievement.
1994:	<u>Women's Faculty Club Scholarship</u> - awarded by the female faculty/spouses of faculty to a single University of California Santa Barbara student each year.
1997:	<u>College Honors and Distinction in the Major</u> - granted to the top one percent of the graduating class.
1997:	<u>Commencement Speaker</u> - at University of California, Santa Barbara graduation ceremonies, June, 1997.
1997-1999:	<u>Hillel Medical Scholarship</u> - given to one student each year for academic excellence and contribution to the Jewish community.
1999:	<u>Outstanding oral presentation</u> - Stanford University School of Medicine Annual Research Symposium.

## Professional Memberships

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- 1997: American Medical Student Association  
2005: American Society of Plastic Surgery, Resident Member  
2005: American Society of Maxillofacial Surgery  
2006: American Society of Aesthetic Plastic Surgery, Resident Member

## Teaching Experience

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- 1992: Special Forces Instructor, Center for Intelligence and Reconnaissance, Israel Defense Force - training elite units in the Israeli military.
- 1996: Instructor in Biology and Organic Chemistry - at UCSB's Campus Learning Assistance Service.
- 1997: MCAT Instructor - Kaplan MCAT preparation course.
- 1999: Teaching Assistant in CPR and Basic Life Support - Stanford University School of Medical School.

## Professional/Volunteer Experience

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- 1990-1993: Volunteered to an elite reconnaissance unit in the Paratrooper Brigade of the Israeli Army for over three years.
- 1993-1996: Office Manager, Preventive Medicine Clinic of Monterey, Monterey, CA.
- 1995-1996: Served as Chair of the Jewish student organization at UCSB, Hillel, an organization with over 500 student members.
- 1996-1997: Premedical Advisor, University of California, Santa Barbara.

## Research Experience

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- 1996: Independent research, Neuroscience Research Institute, UCSB.  
Supervisor: Dr. Ben Reese, Associate Professor  
Research Subject: The development and function of the retina in a mammalian animal model.
- 1998: Medical Scholars independent research, Department of Functional Restoration, Division Plastic and Reconstructive Surgery, Stanford University School of Medicine.  
Supervisor: Dr. William Lineaweaver, Associate Professor

Research Subject: Microsurgical vascular anastomosis research; techniques for improving surgical flap survival.

1998: Research fellowship in microvascular surgery, Buncke Microsurgery Lab, Davies Medical Center, San Francisco. CA.

Supervisor: Dr. Harry Buncke, Clinical Professor

Research Subject: Reconstructive Microsurgery and use of growth factors in improving outcomes in plastic surgery.

2002: Independent clinical outcomes research, Division of Plastic and Surgery, Northwestern University School of Medicine, Chicago, IL.

Supervisor: Dr. Thomas A. Mustoe, Professor

Research Subject: The outcome of abdominoplasty performed under conscious sedation.

2005: Research fellowship in the Northwestern University Department of Surgery, wound healing lab, Chicago, IL.

Supervisor: Dr. Thomas, A. Mustoe, Professor

Research Subject: Wound healing, animal scar models

## Research Grants

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1997-1998: Medical Scholars Research Grant - for conducting independent research in the Division of Plastic and Reconstructive Surgery, Stanford University School of Medicine (\$20,000).

2004-2005: Plastic Surgery Educational Foundation Grant – Reduction of scarring in-vivo using novel antisense oligonucleotides (\$5,000).

2004-2006: McKinley Medical Unrestricted Research Grant – A randomized, prospective trial evaluating the efficacy of a local anesthetic pain pump for postoperative pain control (\$10,000).

## Publications

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1. **Kryger ZB**, Dumanian GA. Discussion of: Reconstruction of extremity long bone defects after sarcoma resection with vascularized fibula flaps: A 10-year review. *Plastic and Reconstructive Surgery*, 119(3): 925, 2007.
2. Sisco M, Liu WR, **Kryger ZB**, Mustoe TA. Reduced up-regulation of cytoprotective genes in rat cutaneous tissue during the second cycle of ischemia-reperfusion. *Wound Repair Regen.* 15(2): 203, 2007.

3. Rawlani V, **Kryger ZB**, Lu L, Fine NA. A local anesthetic pump reduces postoperative pain, narcotic, and anti-emetic use: A double-blind, randomized, prospective trial. Manuscript in preparation, 2007.
4. **Kryger ZB**, Dumanian GA, Howard MA. Combining gynecologic procedures with plastic surgery of the abdomen: Optimizing patient safety. *International Journal of Gynecology*. Accepted for publication, 2007.
5. **Kryger ZB**, Bauer BS. The surgical management of large and giant congenital pigmented nevi of the lower extremity. *Plastic and Reconstructive Surgery*. Submitted for publication, 2007.
6. **Kryger ZB**, Sisco M, Roy NK, Lu L, Rosenberg D, Mustoe, TA. The Temporal expression of the TGF-beta pathway in the rabbit ear model of wound healing and scarring. *Wound Repair and Regeneration*. Accepted for publication, 2007.
7. **Kryger ZB**, Rawlani V, Dumanian GA. Treatment of chronic digital ischemia with direct microsurgical revascularization. *Journal of Hand Surgery [Am]*. Accepted for publication, 2007.
8. Sisco M, **Kryger ZB**, Kotseos K, Jia SX, Schultz G, Dean N, Mustoe TA. Antisense inhibition of CTGF mRNA limits hypertrophic scarring without affecting wound healing in vivo: Evidence for a specific target to reduce fibrosis. *American Journal of Pathology*. Submitted for publication, 2007.
9. Sisco M, **Kryger ZB**, Jia SX, Schultz G, Dean N, Mustoe TA. Antisense oligonucleotides against transforming growth factor-beta delay wound healing in a rabbit ear model. *Journal of the American College of Surgeons*. 201(3): S60, 2005.
10. Brown RJ, Lee M, **Kryger ZB**, Kim JYS, Mustoe TA. The effect of ultraviolet light on scarring in a rabbit model of scarring. *Journal of the American College of Surgeons*. 201(3): S59, 2005.
11. **Kryger ZB**, Sisco M, Liu WR, Mustoe TA. Attenuated stress- and hypoxia-driven gene expression in a rat model of repetitive cutaneous ischemia-reperfusion injury. *Journal of the American College of Surgeons*. 201(3): S58-S59, 2005.
12. **Kryger ZB**, Sisco M, Roy NK, Mustoe TA. The temporal expression of the TGF-beta pathway in the rabbit ear model of hypertrophic scarring. *Wound Repair and Regeneration*. 13:A13, 2005.
13. **Kryger ZB**, Fine NA, Mustoe, TA. The outcome of abdominoplasty performed under conscious sedation: Six year experience in 153 consecutive cases. *Plastic and Reconstructive Surgery*. 113(6):1807-1818, 2004
14. Shi DY, Zhang F, Yu C, **Kryger ZB**, Chen TY, Cui DF, Lineaweaver, WC, Chen, ZW. Effect of osteogenic growth peptide on remodeling of bone loss induced by a low calcium diet. *Timisoara Medical Journal*. 53(1), 2003.

15. Kryger GS, **Kryger ZB**, Zhang F, Levin D, Shelton DL, Nishimura M, Lineaweaver WC, Buncke HJ. Nerve growth factor inhibition prevents traumatic neuroma formation in the rat. *Journal of Hand Surgery [Am]*. 26(4):635-44, 2001.
16. **Kryger ZB**, Dogan T, Zhang F, Cheng C, Lineaweaver WC, Buncke HJ. The effects of VEGF on survival of a random flap in the rat: Examination of various routes of administration. *British Journal of Plastic Surgery*. 53(3):234-239, 2000
17. Hui KC, Zhang F, Shaw WW, **Kryger ZB**, Piccolo NS, Harper A, Lineaweaver WC. Learning curve of microvascular venous anastomosis: A never ending struggle? *Microsurgery*. 20(1):22-24, 2000
18. Li JY, Zhang F, Moon W, **Kryger ZB**, Shi DY, Lineaweaver WC, Buncke HJ. Biliary tract reconstruction using an autologous vein graft in the rat. *Journal of Reconstructive Microsurgery*. 16(1):51-55, 2000
19. Shi DY, Zhang F, **Kryger ZB**, Komorowska-Timek E, Lineaweaver WC, Buncke HJ. Effect of hyperbaric oxygen on microvascular anastomosis healing and patency in the rat. *Microsurgery*. 15(7):539-545, 1999.
20. Dogan T, **Kryger ZB**, Zhang F, Shi DY, Komorowska-Timek E, Lineaweaver WC, Buncke HJ. Quadriceps femoris muscle flap: largest muscle flap model in the rat. *Journal of Reconstructive Microsurgery*. 15(6):433-437, 1999.
21. **Kryger ZB**, Dogan T, Zhang F, Komorowska-Timek E, Shi DY, Cheng C, Lineaweaver WC, Buncke HJ. Effects of VEGF administration following ischemia on survival of the gracilis muscle flap in the rat. *Annals of Plastic Surgery*. 43(2):172-178, 1999.
22. Zhang F, Shi DY, **Kryger ZB**, Moon W, Lineaweaver WC, Buncke HJ. Development of a mouse limb transplantation model. *Microsurgery*. 19(5):209-213, 1999.
23. Galli-Resta L, Novelli E, **Kryger ZB**, Jacobs GH, Reese BE. Modelling the mosaic organization of rod and cone photoreceptors with a minimal-spacing rule. *European Journal of Neuroscience*. 11(4):1461-1469, 1999.
24. **Kryger ZB**, Galli-Resta L, Jacobs GH, Reese BE. The topography of rod and cone photoreceptors in the retina of the ground squirrel. *Visual Neuroscience*. 15(4):685-691, 1998.
25. **Kryger ZB**, Galli-Resta L, Jacobs GH, Reese BE. The arrangement of the photoreceptor mosaic in the retina of the ground squirrel. *Proceeds of the National Academy of Sciences*, 92: 2494-2498, 1998.

## National Meeting Presentations

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### 1. **Proceeds of the National Academy of Sciences, Washington DC, April 1998.**

#### Poster Presentation:

**Kryger ZB**, Galli-Resta L, Jacobs GH, Reese BE. The arrangement of the photoreceptor mosaic in the retina of the ground squirrel.

2. **Stanford University School of Medicine Research Symposium, Stanford, CA, May 1999.**  
Oral Presentation:  
**Kryger ZB**, Dogan T, Lineaweaver WC, Buncke HJ. The effects of vascular endothelial growth factor on survival of a surgical flap in the rat.
3. **American Society for Reconstructive Microsurgery, Miami Beach, FL, January 2000.**  
Oral Presentation:  
**Kryger ZB**, Dogan T, Zhang F, Komorowska-Timek E, Cheng C, Lineaweaver WC, Buncke HJ. The effects of vascular endothelial growth factor on survival of a myocutaneous random flap and gracilis muscle flap in the rat.  
  
Poster Presentation:  
Buntic R, Zhang F, **Kryger ZB**, Buncke HJ. Does the order of arterial versus venous anastomosis affect flap survival?
4. **American Association for Hand Surgery, Miami Beach, FL, January 2000.**  
Poster Presentation:  
**Kryger ZB**, Kryger GS, Zhang F, Levin D, Shelton DL, Nishimura M, Lineaweaver WC, Buncke HJ. A novel method of nerve growth factor inhibition as a means of treating the effects of peripheral nerve injury.
5. **Wound Healing Society, Chicago, IL, 2005.**  
Oral Presentation  
**Kryger ZB**, Sisco M, Roy NK, Mustoe, TA. The Temporal mRNA expression of the TGF-beta pathway in the rabbit ear model of hypertrophic scarring.
6. **Plastic Surgery Research Council, Toronto, Canada, 2005.**  
Poster Presentation:  
**Kryger ZB**, Sisco M, Roy NK, Mustoe, TA. The TGF-beta pathway in the rabbit ear model of hypertrophic scarring.
7. **American College of Surgeons, San Francisco, CA. 2005.**  
Oral Presentation:  
**Kryger ZB**, Sisco, M, Liu WR, Mustoe, TA. Attenuated stress- and hypoxia-driven gene expression in a rat model of repetitive cutaneous ischemia-reperfusion injury.  
  
Oral Presentation:  
Brown RJ, Lee M, **Kryger ZB**, Kim JYS, Mustoe TA. The effect of ultraviolet light on scarring in a rabbit ear model of scarring.  
  
Oral Presentation:  
Sisco M, **Kryger ZB**, Jia SX, Schultz G, Dean N, Mustoe TA. Antisense oligonucleotides against transforming growth factor-beta delay wound healing in a rabbit ear model..
8. **Aesthetic Facial Reconstruction in Adults and Children, Tucson, AZ, 2007.**  
Oral Presentation:  
**Kryger ZB**, Bauer B. Palatal lengthening using bilateral facial artery musculomucosal (FAMM) flaps.

9. **Midwestern Association of Plastic Surgeons, Chicago, IL, 2007.**

Oral Presentation:

**Kryger ZB**, Rawlani V, Dumanian G. Treatment of chronic digital ischemia with direct microsurgical revascularization.

Oral Presentation:

**Kryger ZB**, Bauer B. Palatal lengthening using bilateral facial artery musculomucosal (FAMM) flaps.

Oral Presentation:

**Kryger ZB**, Rawlani V, Lu L, Fine NA.. A double blind, randomized, prospective trial evaluating the efficacy of a local anesthetic pain pump in breast reduction.

## Book Chapters

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1. **Kryger Z**, Yagmour T. Local Anesthetics. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
2. **Kryger Z**. Basic Anesthetic Blocks. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
3. **Kryger Z**, Fine NA. Surgery Under Conscious Sedation. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
4. **Kryger Z**. Basic Concepts in Wound Repair. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
5. **Kryger Z**, Bauer B. Tissue Expansion. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
6. **Kryger Z**. Hypertrophic Scars and Keloids. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
7. **Kryger Z**. Benign Skin Lesions. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
8. **Kryger Z**. Head and Neck Cancer. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
9. **Kryger Z**. Fractures of the Zygoma and Maxilla. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
10. **Kryger Z**. The Facial Nerve and Facial Reanimation. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
11. **Kryger Z**, Lewis V. Pressure Ulcers. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.

12. **Kryger Z.** Microtia Repair. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
13. **Kryger Z.** Craniofacial Microsomia. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
14. **Kryger Z, Patel, PK.** Craniosynostosis and Craniofacial Syndromes. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
15. **Kryger Z.** Liposuction. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
16. **Kryger Z.** Dermabrasion. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
17. **Kryger Z.** Anatomy of the Hand. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
18. **Kryger Z.** Examination of the Hand and Wrist. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
19. **Kryger Z Ambekar A.** Radiographic Findings in the Hand. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
20. **Kryger Z. Kim JYS.** Compartment Syndrome of the Upper extremity. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
21. **Kryger Z, Han H.** Soft tissue infections. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
22. **Kryger Z, Hoepfner PE.** Nerve Injuries. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
23. **Kryger Z, Hoepfner PE.** Extensor Tendon Injuries. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
24. **Kryger Z, Hoepfner PE.** Flexor Tendon Injuries. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
25. **Kryger Z, Kim JYS.** Stenosing Tenosynovitis. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
26. **Kryger Z, Kim JYS** Vascular Trauma of the Upper Extremity. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
27. **Kryger Z, Dumanian GA.** Reflex Sympathetic Dystrophy. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.

28. **Kryger Z, Kim JYS.** Upper Extremity Replantation. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
29. **Kryger Z, Kim JYS.** Common anomalies of the Hands and Digits. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
30. **Kryger Z, Dumanian GA.** Radial Artery Harvest. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
31. Han H, **Kryger Z,** Soft tissue coverage. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
32. **Kryger Z, Sisco M.** Appendix I-Important Flaps and Their Harvest. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.
33. **Kryger Z, Sisco M.** Appendix II-Surgical Instruments. In Kryger Z, Sisco M eds. *Practical Plastic Surgery*. Georgetown, TX: Landes Bioscience, 2007.

## **Grand Rounds Presentations**

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1. *Facial reanimation.* Northwestern University Feinberg School of Medicine. Chicago, IL. November, 2005.
2. *Chemical burns.* Northwestern University Feinberg School of Medicine. Chicago, IL. February, 2006.
3. *Soft tissue coverage of the foot and ankle.* Northwestern University Feinberg School of Medicine. Chicago, IL. May, 2006.
4. *Craniofacial microsomia.* Northwestern University Feinberg School of Medicine. Chicago, IL. August, 2006.
5. *Scapholunate ligament injuries.* Northwestern University Feinberg School of Medicine. Chicago, IL. January, 2007.
6. *Acute fingertip injuries.* Northwestern University Feinberg School of Medicine. Chicago, IL. April, 2007.