Professor Gunnar Kratz

Eftergymnasiala utbildningar:

Militärtjänst: K4, Arvidsjaur; 1982-1983.

Läkarexamen; 1991, Karolinska Institutet.

Legitimerad läkare; 1993.

Medicine doktorsgrad; 1993**.** Avhandling: In vitro studies on keratinocyte derived growth factors, amniotic fluid and insulin like growth factors in cell proliferation and re-epithelialization of wounds, Handledare: Carl-Johan Dalsgaard och Anders Haegerstrand

Post-doc; 1995: Post-doc fellow vid Harvard Medical School / Shriner's Burns Institute / Massachusetts General Hospital, Boston, USA.

Specialist i plastikkirurgi; 1997

Docent i ämnet plastikkirurgi; 1997.

Professor i plastikkirurgi; 2002.

Har genomgått ett flertal ledarskapsutbildningar, projektledarutbildningar samt pedagogiska utbildningar.

Arbetslivserfarenhet:

Nuvarande anställning sedan 2002: Professor i hand- and plastikkirurgi/Överläkare i plastikkirurgi. Linköpings universitet/Universitetssjukhuset i Linköping.

Tidigare anställningar inom det medicinska området:
1990-1993: Allmäntjänstgöring samt underläkaretjänst, kirurgiska kliniken, Karolinska Sjukhuset, Stockholm.
1993-1997: Specialistutbildning, Plastikkirurgiska kliniken. Karolinska sjukhuset, Stockholm.
1997-1998: Specialistläkare, Plastikkirurgiska kliniken, Karolinska sjukhuset, Stockholm.
1998-2000: Överläkare samt forskningsansvarig, plastikkirurgiska kliniken, Karolinska sjukhuset, Stockholm. Ansvarig för laboratoriet för experimentell plastikkirurgi
2000-2002: Överläkare samt lektor, plastikkirurgiska kliniken, Karolinska sjukhuset, Stockholm. Ansvarig för laboratoriet för experimentell plastikkirurgi samt klinikens totala forskningsaktivitet.

Föräldraledighet: Jan-feb 2004

Forskningsmeriter:

Handledare för examinerade forskningsstuderande:
Karin Hehenberger
Magdalena Fossum
Fredrik Huss
Carl-Johan Gustafson
Camilla Fredriksson
Johan Junker
Lisa Karlsson
Sofia Pettersson
Pehr Sommar
Birgitta Svernlöv
Erika Nyman
Susanna Lönnqvist
Jonathan Rakar

Nuvarande doktorander:
Alexander Larsson (huvudhandledare)
Anders Kjölhede (huvudhandledare)
Elvira Lindholm (huvudhandledare)
Shora Zhamana Fekri (huvudhandledare)
Carin Rubensson (bihandledare)

Värd för post-docs:
Hans Johnson, 2003-2005
Fredrik Huss, 2007-2008
Johan Junker 2017 - 2019

Opponent vid disputationer:
Tor Sävsjö, Lunds universitet/Harvard Medical School, Boston, USA
Margareta Lirvall, Linköpings universitet
Elisabeth Björntorp-Mark, Gothenburgs universitet
Al Varol, The University of New South Wales, Australia
Maik Stiehler, University of Aarhus, Denmark
Kim Alexander Tönseth, Oslo, Norway
Sofi Forsberg, Uppsala Universitet
Björn Schönmayer, Lunds Universitet/Harvard Medicak School, Boston, USA
Ola Borgquist, Lunds Universitet
Kristo Nuutila, University of Helsinki
Erik Anesäter, Lunds Universitet
Richard Lewin, Göteborgs Universitet
Carla R. Cruse, University of Odense/Harvard Medical School, Boston, USA

Övrigt:

Förtroendeuppdrag (exempel):
Proprefekt, institutionen för biomedicin och kirurgi (IBK), Linköpings universitet. 2004-2008
Terminsansvarig (T7/K7), läkarprogrammet vid Linköpings universitet 2015-2020.
Ordförande i Svensk plastikkirurgisk förening. 2012-2016
Vetenskapligt råd, Inspektionen för vård och omsorg/Socialstyrelsen. 2010-pågående
Medlem i sakkunniggruppen, Könsdysfori, Socialstyrelsen 2019 – pågående
Medlem av ledningsgruppen, HPK, Universitetssjukhuset i Linköping.

Medlem av editorial boards i Scand J of Surgery, Organogenesis and Läkartidningen. 2003-pågående
Medlem i två vävnadsområdes grupper (Vävnadsdirektivet). 2006-2010
Medlem i styrelsen för rekonstruktionscenter, Universitetetssjukhuset, Linköping. 2002-2009
Medlem i anställningsnämnden vid medicinska fakulteten, Linköpings universitet. 2008-2011
Vetenskapligt råd, Mölnlycke Health Care AB. 2004-2011
Externt sakkunnig vid Socialstyrelsens utarbetande av kunskapsstöd för vård av transsexuella 2012-2014
Medlem i expertgruppen i samband med socialstyrelsens implementering av europeiska direktiven beträffande användandet av humana celler och vävnader. 2002-2005,

Inbjuden föreläsare (exempel):

Italian Urologic Assocation, Ancona

Pittsburgh initiative for tissue engineering

National University of Singapore,

Mark Evans International Meeting-Tissue Engineering

KOL meeting on wound healing, Amsterdam

European Urology Association, annual meeting, Wien

The Royal Swedish Academy of Engineering Sciences, Stockholm

Acta Chirurgica Jubilee lectures, Stockholm

The dermatological society in Sweden, Gothenburg

The Nordic Urology Society, Gothenburg

European Tissue Repair Society16th Annual Meeting, Pisa, Italy

Visiting Professor/Invited Speaker, Harvard Medical School, Boston

Stem Cell and Tissue Engineering in Plastic Surgery, Samsun, Turkey

Swedish National meeting of endocrinologists

The 34th congress of the Scandinavian Association of Plastic Surgeons.

Astellas Scientific Roadshow, Göteborg, Malmö och Stockholm

NFOG, Stockholm

SFOG, Jönköping

Nordiskt brännskademöte, Sverige, Norge, Danmark, Finland

Scandinavian Plastic Surgery, Finland, Danmark, Norge, Island, Sverige

Norsk Gynekologisk Förening, Oslo, Norge

Norsk Plastikkirurgisk Förening, Oslo, Norge

AT-stämman, Stockholm (årligen sedan 2014)

Föreläst på ett flertal SK-kurser i norden

Publikationer:

Referee-granskade originalartiklar:

G. Kratz. In vitro studies on keratinocyte derived growth factors, amniotic fluid and insulin like growth factors in cell proliferation and re-epithelialization of wounds. Thesis.

G. Kratz, A. Hægerstrand, C-J Dalsgaard. Conditioned medium from cultured human keratinocytes has growth stimulatory properties on different human cell types. J Invest Dermatol 1991; 97:1039-1043.

G. Kratz, M. Lake, K. Ljungström, G. Forsberg, A. Hægerstrand, M. Gidlund. Effect of recombinant IGF binding protein-1 on primary cultures of human keratinocytes and fibroblasts: Selective enhancement of

IGF-1 but not IGF-2-induced cell proliferation. Exp Cell Res 1992; 202:381-385.

G. Kratz, A. Hægerstrand, B. Palmer. Growth stimulatory effects of amniotic fluid on human cells related to wound healing. Eur J Plast Surg. 1993;16:130-133.

G Kratz, Haegerstrand A, Dennerman A, Wikström H, Gidlund M, Palmer B. A new invitro model for human wound-healing – effekt of KCM, Amniotic-fluid and IGFs. J Cell Biochem 1993:53. 133

G. Kratz, M. Lake, M. Gidlund. Insulin like growth factor-1 and-2 and their role in the re-epithelialisation of wounds; interactions with insulin like growth factor binding protein type 1. Scand J Plast Reconstr Hand Surg 1994; 28:107-112.

G. Kratz, B. Palmer, A. Hægerstrand. Effects of keratinocyte conditioned medium, amniotic fluid and EGF in reepithelialization of human skin wounds in vitro. Eur J Plast Surg 1995:18:209-213.

G. Kratz, K. Jansson, M. Gidlund, A Hægerstrand. Keratinocyte conditioned medium stimulates type IV collagenase synthesis in cultured human keratinocytes and fibroblasts. Br J Dermatol 1995:133;.842-846
I Mitsuse, **G Kratz**, A Hægerstrand, M Ståhle-Bäckdahl. Collagenase expression is rapidly induced in ulcer edge keratinocytes after acute injury in human skin; persists during healing and stops at re-epithelialization. J Invest Dermatol 1995:104;479-483.

K Jansson, **G Kratz**, A Hægerstrand. Characterization of a new in vitro model for studies of reepithelialization in human partial thickness wounds. In Vitro Cell Dev Biol-Animal 1996:32;534-540

G. Kratz, B. Jonzon, A. Hultgård-Nilsson, A. Hægerstrand. Characterization and partial purification of a keratinocyte derived growth factor with wound healing properties. Cell Biochem. 1997:15;153-162.

P Emanuelsson, **G Kratz**. Characterization of a new *in vitro* burn wound model. Burns 1997:23;32-36.

G Kratz, C Arnander, J Swedenborg, M Back, C Falk, I Gouda, O Larm. Heparin-chitosan complexes stimulate wound healing in human skin. Scand J Plast Reconstr Hand Surg, 1997:31; 119-123.

K Hehenberger, K Brismar, F Lind, **G Kratz.** Dose-dependent hyperbaric oxygen stimulation of cell proliferation in human fibroblasts derived from normal skin and chronic diabetic foot ulcers. Wound Healing and Regeneration 1997:5;147-150.

G Kratz, CC Compton. Tissue expression of transforming growth factor-beta 1 and alpha during wound healing in human skin explants. Wound Healing and Regeneration 1997: 5: 222-8.

K Hehenberger, **G Kratz**, A Hansson, K Brismar. Fibroblasts derived from human chronic diabetic wounds have a decreased proliferation rate, which is recovered by the addition of heparin. J Dermatol Sci 1998:16;144-151

C-J Gustafson, Jan Eldh, **G Kratz**. Culture of human urothelial cells on a cell-free dermis for autotransplantation. Eur Urol 1998:33;503-506.

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Compton CC, Warland G, **Kratz G**. Melanocytes in Cultured Epithelial Grafts
Are Depleted with Serial Subcultivation and Cryopreservation: Implications
for Clinical Outcome. J Burn Care Rehabil 1998;19:330-336.

G Kratz, C Arnander, M Back, O Larm. Immobilized heparin accelerates the healing of human wounds *in vivo*. Scand J Plast Reconstr Hand Surg, 1998;32:381-385.

C-J Gustafson, **G Kratz.** Cultured autologous keratinocytes on a cell free dermis in the treatment of full-thickness wounds. Burns, 1999:25;331-335.

E Morcos, OT Jansson, J Adolfsson, **G Kratz,** NP Wiklund. Endogenously formed nitric oxide modulates cell growth in bladder cancer cell lines. Urology 1999; 53:1252-1257.

R Rigler, A Pramanik, P Jonasson, **G Kratz**, O. T. Jansson, P-Å Nygren, S Ståhl, K Ekberg, B-L Johansson, S Uhlén, M Uhlén, H Jörnvall, J Wahren. Specific binding of proinsulin C-peptide to human cell membranes. Proc Natl Acad Sci U S A, 1999;96:13318-23.

Kratz, C-J Gustafson, F Huss, E Neovius. Recreation of tissue--the plastic surgeon's spring-board in to the 21st century. Lakartidningen 1999:44.

K Ekberg, R Rigler, A Pramanik, **G Kratz**, BL Johansson, M Uhlen, H Jornvall, J Wahren. Specific binding of proinsulin C-peptide to human cell membranes. Diabetologia. 1999:42.

C Kratz, A Tollbäck, **G Kratz**. Effects of stretching on cell proliferation in human burn scars. Scand J Plast Reconstr Hand Surg, 2001;35:57.

C Gustafson, **G Kratz.** Tissue engineering in urology. Curr Opin Urol. 2001:11; 275-279.

JD Heilborn, MF Nilsson, **G Kratz**, G Weber, O Sorensen, M Ståhle-Bäckdah. lHuman cathelicidin antimicrobial peptide is induced in skin wounding - Active peptide is detected in physiologic healing but not in chronic nonhealing wounds. J Invest Dermatol 117(3):767-767

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G Kratz, S Asko-Seljvaara. Plastic surgery. Scand J Surg. 2003;92(4):239.

E Neovius, **G Kratz**. Tissue-engineering by co-cultivating human elastic chondrocytes and keratinocytes in fibrin glue. Tissue Engineering. Tissue engineering 2003:9; 365-369.

G Kratz, F Huss. Tissue engineering-body parts from the Petri dish. Scand J Surg. 2003;92:241-7.

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whole-tissue culture. Cell Tissue Res. 2006 Mar 28

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M. Fossum, J. Svensson, **G. Kratz**, A. Nordenskjöld. Autologous in vitro cultured urothelium in hypospadias repair. Journal of Pediatric Urology 2007 ; 3: 10-18

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L.K. Karlsson, J.P.E. Junker, M. Grenegård, G. Kratz. Human Dermal Fibroblasts: a Potential Cell Source for Endothelialization of Vascular Grafts. Ann Vasc Surg. 2009 Sep-Oct;23(5):663-74.

Fredriksson C, **Kratz G**, Huss F.. Accumulation of silver and delayed wound healing in human skin: an ex vivo study of different silver dressings. Wounds 2009. Volume 21 - Issue 5 - May, 2009.

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Fredrik R.M. Huss, Erika Nyman, Johanna S Bolin, **Gunnar Kratz**. Use of macroporous gelatine spheres as a biodegradable scaffold for guided tissue regeneration of healthy dermis in humans: an in vivo study, J Plast Reconstr Aesthet Surg. 2010 May;63(5):848-57.

Junker J, Sommar P, Skog M, Johnson H, Kratz G. Adipogenic, Chondrogenic and Osteogenic Differentiation of Human Dermal Fibroblasts. Cells Tissues Organs. 2010;191(2):105-18.

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H Seland, C-J Gustafson, H Johnson, JP Junker, **G Kratz**. Transplantation of acellular dermis and keratinocytes cultured on porous biodegradable microcarriers into full-thickness skin injuries on athymic rats. Burns, 2011 Feb;37(1):99-108.

Pettersson S, Wetterö J, Tengvall P, **Kratz G**. Cell expansion of human articular chondrocytes on macroporous gelatine scaffolds-impact of microcarrier selection on cell proliferation. Biomed Mater. 2011 Dec;6(6):065001.

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Rakar J, Krammer MP, **Kratz G**. Human melanocytes mitigate keratinocyte-dependent contraction in an in vitro collagen contraction assay. Burns. 2014 Nov 22. pii: S0305-4179(14)00374-X. doi: 10.1016/j.burns.2014.10.034.

Sommar P, Junker JP, Strandenes E, Ness C, Hansson T, Johnson H, **Kratz G**.
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Cieślar-Pobuda A, Jain MV, **Kratz G**, Rzeszowska-Wolny J, Ghavami S, Wiechec E.
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Lönnqvist S, Rakar J, Briheim K, **Kratz G**. Biodegradable Gelatin Microcarriers Facilitate Re-Epithelialization of Human Cutaneous Wounds - An In Vitro Study in Human Skin.
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Persson K, Lönnqvist S, Tybrandt K, Gabrielsson R, Nilsson D, **Kratz G**, Berggren M. Matrix Addressing of an Electronic Surface Switch Based on a Conjugated Polyelectrolyte for Cell Sorting. Advanced Functional Materials 2015: 25 (45): 7056-7063

Lönnqvist S, Emanuelsson P, **Kratz G**. Influence of acidic pH on keratinocyte function and re-epithelialisation of human in vitro wounds. J Plast Surg Hand Surg. 2015;49(6):346-52.

Rakar J, Krammer MP, **Kratz G**. Human melanocytes mitigate keratinocyte-dependent contraction in an in vitro collagen contraction assay. Burns. 2015 Aug;41(5):1035-42.

Lönnqvist S, Briheim K, **Kratz G**. Non-occlusive topical exposure of human skin in vitro as model for cytotoxicity testing of irritant compounds. Toxicol Mech Methods. 2016; 26: 82-7.

Henrik Toss, Susanna Lönnqvist, David Nilsson, Anurak Sawatdee, Josefin Nissa, Simone Fabiano, Magnus Berggren, **Gunnar Kratz**, Daniel T. Simon Ferroelectric Surfaces for Cell Release. Synthetic metals, 2017, Vol. 228, 99-104.

Nyman E, Henricson J, Rakar J, Olausson P, Ghafouri B, Anderson Chris, **Kratz G**. Exogenous hyaluronic acid induces accelerated re-epithelialisation and altered protein expression in adult human skin wounds in vivo. Plast Reconstr Surg Glob Open. 2019 May 1;7(5)

Susanna Lönnqvist, Johan PE Junker, Maria Karlsson, Erika Nyman, **Gunnar Kratz**. Tracking keratinocytes and melanocytes using carboxyfluorescein hydroxysuccinimidyl ester staining. PLoS One. 2019 Aug 29;14(8).

Kjölhede A, Cornelius F, Kratz G. Metoidioplasty and groin flap phalloplasty as two surgical methods for the creation of a neophallus in female-to-male gender-confirming surgery: A retrospective study comprising 123

operated patients. JPRAS Open. 2019 Dec vol 22 1-8.

Nyman E, Henricson J, Ghafouri B, Anderson CD, **Kratz G.** Hyaluronic Acid Accelerates Re-epithelialization and Alters Protein Expression in a Human Wound Model.
Plast Reconstr Surg Glob Open. 2019 May 1;7(5):e2221.

Larsson AP, Briheim K, Hanna V, Gustafsson K, Starkenberg A, Vintertun HN, **Kratz G**, Junker JPE. Transplantation of autologous cells and porous gelatin microcarriers to promote wound healing.
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Böcker och bokkapitel:
Författare till kapitlet "wound healing" i " Kirurgi" Eds: B Hamberger, U Haglund. Liber. ISBN 91-47-05065

Medförfattare till STRAMAs consensus bok rörande hudinfektioner.

Medförfattare till Scandinavian textbook of plastic surgery.

From Basic Wound Healing to Modern Skin Engineering, Artificial Organs Series: New Techniques in Surgery Series , Vol. 4 Hakim, Nadey S. (Ed.) 2009, X, 190 p. 64 illus., 53 in color., Hardcover ISBN: 978-1-84882-281-8. Springer-Verlag London Limited 2009.

Artificial Organs Series: New Techniques in Surgery Series , Vol. 4 Hakim, Nadey S. (Ed.) 2009, X, 190 p. 64 illus., 53 in color., Hardcover ISBN: 978-1-84882-281-8

Medförfattare till Kirurgiska sjukdomar. Studentliteratur. Eds: Roland Andersson, Cecilia Rogmark, Sara Regnér, Maria Albertsson, Mikael Ekelund. 2021

Medförfattare till Gynekologi. Studentlitteratur. 2022. Eds: Torbjörn Bäckström, Preben Kjölhede, Britt-Marie Landgren.

Populärvetenskapliga bidrag:
Har tillsammans med fotograf Lennart Nilsson deltagit i produktionen av TV-program om sårläkning.

Har deltagit i ett flertal TV-produktioner som exempelvis Nova, Hjärnkontoret, Fråga Olle dokumentär, TV-universitetet, Fråga doktorn, 69 saker du alltid velat veta om sex, Plus m. fl. Huvudsakligen har programmen berört forskningsområden så som tissue engineering, stamceller och sårläkning samt könskorrigerande kirurgi kosmetisk kirurgi och intimkirurgi.

Har vid ett stort antal tillfällen blivit intervjuad I TV, radio och tidningar. Exempelvis i: Efter tre, Aktuellt, Rapport, Utbildningsradion, Vetandets värld, Eftersnack, Östnytt, Morgon Zoo, Aftonbladet, Expressen, Forskning och Framsteg, Dagens Nyheter, Forskarliv, Morgon nyheterna med flera.

Har hållit ett stort antal offentliga föreläsningar kring forskning, sårläkning, vävnadsodling, stamceller, könsbekräftande kirurgi etc.