

A.5 Publications

Optimal surface topography for bone anchored implants

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
2:1	Gold J, Aronsson BO, Kollberg P, Hagshenas N, Jartoft P, Krantz M, Reimers H, Chakarov D, Hallgren C, Wennerberg A, Carlsson L, Kasemo B. Preparation and characterization of micropatterned dental implants. ICOB June 28-July 1, 1998, Baverno, Italy.			X				X		C
2:2	Gold J, Aronsson BO, Kollberg P, Hagshenas N, Jartoft P, Krantz M, Reimers H, Chakarov D, Hallgren C, Wennerberg A, Carlsson L, Kasemo B. Preparation and characterization of micropatterned dental implants. BIOSURF II, Oct 1-2 1998, Lausanne, Switzerland.			X				X		C
2:3	Reimers H, Chakarov D, Gold J, Kasemo B, Hallgren C, Wennerberg A. Laser ablation micropatterning of screw-shaped dental implants, EUROMAT 99 Sept 27-30 1999 München., Germany			X				X		A
2:4	Hallgren, C., Reimers H., Gold J., Wennerberg A. An in vivo study of titanium implant surface modified by a photolithography technique. ESB Sept 8-12 1999, Bordeaux, France			X				X		A
2:5	Hallgren C, Reimers H., Gold J., Wennerberg A. Implant surface modified by a laser technique. An in vivo study in rabbits. Scanning Microscopy-Cells and Materials Meeting, August 22nd –24 th 1999, Davos, Switzerland.			X				X		A
2:6	Hallgren C, H Reimers, J Gold, A Wennerberg, “An in vivo study of titanium implant surfaces modified by laser machining”, 6th World Biomaterials Congress, Kamuela, Hawaii, May 15-20, 2000.			X				X		A
2:7	Keynote: Wennerberg, A, Non-destructive characterisation of surface topography of implant materials. Cells and Materials Meeting, August 22nd-24th 1999, Davos, Switzerland			X	X					C
2:8	Keynote: Gold, J, “Micro- and nano-patterned biomaterials surfaces“, ECASIA ‘99, 8th European Conference on Applications of Surface and Interface Analysis, Sevilla, Spain, October 4-8, 1999.			X	X					C
2:9	Wennerberg, A, Overview of surface roughness and bone healing around Ti implant. The 4th Asia-Pacific Conference on Medical and Biological Engineering, September 12-15 1999, Seoul, Korea			X	X					C
2:10	Wennerberg, A, Measurement and evaluation of implant surface roughness. International Workshop, “Dental Implant Surface Characteristics and Bone Response”, Florence 2nd October 1999			X	X					C
2:11	Wennerberg, A, Profilometric analysis and in vivo examination of various titanium surfaces. “Bone symposium” . Bern, Switzerland. December 10/11 1999.			X	X					C
2:12	Wennerberg, A, Surface metrology and in vivo examination of titanium implant surfaces. International Circuit Courses Speaker, Academy of Prosthodontics, Québec City, Québec, May 18-22 2000.			X	X					C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
2:13	Wennerberg, A., Albrektsson, T. Suggested Guidelines for the Topographic Evaluation of Implant Surfaces. Int J Oral Maxillofac Implants 2000;15:331-344.	X							X	C
2:14	Reimers H, C Hallgren, P. Jartoft, M Krantz, A Wennerberg, D Chakarov, J Gold, B Kasemo, "Laser ablation micropatterning of screw-shaped dental implants", in Materials for Medical Engineering EUROMAT 99, eds. H Stallforth and P. Revell, Wiley-VCH, 2000; 2:51-58.	X					X			A
2:15	Hallgren C, Reimers H, Gold J, Wennerberg A. "The importance of surface texture for bone integration of screw shaped implants. An in vivo study of implants patterned by a photolithographic technique", J Biomed Mater Res 2001;57(4):485-496.	X					X			A
2:16	Reimers H, Gold J, Kasemo B, Chakarov D, "Topographical and surface chemical characterization of nanosecond pulsed laser micromachining of titanium at 532 nm wavelength" submitted to J Vac Sci A, 2002	X					X			A
2:17	Hallgren C, Reimers H, Chakarov D, Gold J, Wennerberg A, "An in vivo study of bone response to implants topographically modified by laser micromachining"	X					X			A
2:18	Göransson A, Jansson E, Gold J, Tengvall P, Wennerberg A. Bone formation around blood-plasma-modified titanium implants with varying surface topographies. An in vivo study. Biomaterials 2003;24:197-205.	X								B
2:19	Göransson, A., Wennerberg, A. Bone formation around isotropic and anisotropic titanium implants prepared with similar roughness. An in vivo study. Accepted	X								C
2:20	Henrik Reimers, Laser micropatterning of medical implants, Thesis for the degree of Licentiate of Engineering at Chalmers and GU, Sweden, 2001.						X			A
2:21	Carin Hallgren-Höstner, On the bone response to different implant textures. A 3D analysis of roughness, wavelength and surface pattern of experimental implants. Thesis for the degree of Doctor of Philosophy, GU; Sweden, 2001						X			A
2:22	H. Reimers, J. Gold, B. Kasemo and D. Chakarov; "Topographical and surface chemical characterization of nanosecond pulsed-laser micromachining of titanium at 532-nm wavelength"; Applied Physics A 2003, vol 77, p. 491-498	X							X	A

Tribology of articulating joints

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
3:1	Yuan X, Ryd L: New approach for the study of musculo-skeletal movement. EORS 1999. Abstract.			X						C
3:2	Yuan X, Ryd L: Accuracy analysis for RSA. A computer simulation study on 3D marker reconstruction. J Biomechanics 2000;33(4):493-498.	X								C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
3:3	Yuan X, Ryd L, Huiskes R: Wear particle diffusion and tissue differentiation in TKA implant fibrous interfaces. J Biomech 2000;33(10):1279-1286.	X							X	C
3:4	Hansson U, Blunn G, Ryd L: Reactions to particulate wear debris in different mesenchymal tissues. Studies on the nonreplaced compartment from revised unknives.								X	C
3:5	Lausmaa J, Carlsson L, Möller K and Rökkum M: A study of abnormal wear in retrieved clinical acetabular cups abstract. 14th European Biomaterial Conference the Hague Sept 1998.			X					X	C
3:6	Kesteris U, Jonsson K, Robertsson O, Önerfält R, Wingsstrand H: Polyethylene wear and synovitis in total hip arthroplasty. A sonographic study of 48 hips. J Arthroplasty 1999;14(2):138-43	X								C
3:7	Kesteris U, Lausmaa J, Carlsson L, Lidgren L, Wingsstrand H, Önerfält R: Contamination of polyethylene cups with polymethylmethacrylate particles. (An experimental study). Accepted for oral presentation 73rd EBRA – Meeting (Migration, subsidence, wear after hip replacement) in Tübingen, Nov. 1998. Accepted for oral presentation EFORT Meeting in Brussels June 1999. Submitted to J Arthroplasty Sept 2000.			X						C
3:8	Olofsson A, Kesteris U, Önerfält R: Wear and migration of Harris-Galante II acetabular cups. 29 cases followed for 3-6 years. Hip International 1999;9(4):200-205	X								C
3:9	Hoseini M, Lausmaa J, Boldizar A. Tribological study of HDPE, Nordic Polymer Days, Copenhagen, May 31 – June 2, 1999 (ABSTRACT).			X					X	B
3:10	Hoseini M, Lausmaa J, Boldizar A. Tribological investigation of oriented HDPE, Regional Meeting Polymer Processing Society, Bangkok, December 1-3, 1999 (EXTENDED ABSTRACT)			X					X	B
3:11	Hoseini M, Lausmaa, Ericsson D. A new screening method for testing of materials for artificial joints, Nordtrib, Helsinki, June 6-8, 2000. Abstract.			X						B
3:12	Wang J, Kjellson F, Tanner K, Lidgren L: Influence of stem insertion time on the static shear strength and interface integrity of the stem-cement interface. To be presented at the ORS Forty-Sixth Annual Meeting in Orlando, Florida, March 14, 2000			X					X	C
3:13	Sabokbar A, Hirayama T, Diaz J, Itonaga I, Murray D W, Lidgren L, Athanasou N A: Effect on osteoclast differentiation and bone resorption of bone cement containing two new radio-opaque contrast media. Presented at the ORS Forty-Sixth Annual Meeting in Orlando, Florida, March 14, 2000			X					X	C
3:14	Broitman E, Macdonald W, Hellgren N, Radnóczy G, Wennerberg A, Brunell I, Jacobsson M, Hultman L: Carbon Nitride Films on Orthopaedic Substrates.			X				X	X	B
3:15	Yuan X: Accuracy Analysis of RSA and Development of Roentgen Single-plane Photogrammetric Analysis. Thesis, Department of Orthopedics, LU, Lund 1999.						X			C
3:16	Kesteris U, Robertsson O, Wingsstrand H, Önerfält R. Cumulative revision rate with the ScanHipR Classic I total hip prosthesis. 1660 cases followed for 2-12 years. Acta Orthop Scand 1998;69(2):133-137.	X								C
3:17	Ilchmann T, Kesteris U, Wingsstrand H. EBRA improves the accuracy of radiographic analysis of acetabular cup migration. Acta Orthop Scand 1998;69(2):119-124.	X								C
3:18	Ilchmann T, Kesteris U, Wingsstrand H. Effect of pelvic tilt on radiographic migration and wear measurements after total hip arthroplasty. Hip International 1998;8-1:16-23.	X								C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
3:19	Kesteris U, Hardinge K, Ilchmann T, Wingstrand H. Polyethylene wear in prosthetic hips with loose components. <i>J Arthroplasty</i> Aug 2002. Accepted.	X							X	C
3:20	Yuan X, Ryd L, Blankevoort L. Error propagation for relative motion determined from marker positions. <i>J Biomechanics</i> 1997;30:989-992.	X							X	C
3:21	Ryd L, Yuan X, Löfgren H. Methods to determine the accuracy of Roentgen Stereophotogrammetric Analysis (RSA). <i>Acta Orthop Scand</i> 2000;71(4):403-408.	X								C
3:22	Yuan X, Ryd L, Tanner KE, Lidren L. Roentgen single-plane photogrammetric analysis (RSPA), I – a new approach for the study of musculo-skeletal movement. Submitted to <i>J Bone Joint Surg</i> 2000..	X							X	C
3:23	Yuan X, Ryd L, Tanner KE, Lidgren L. Roentgen single-plane photogrammetric analysis (RSPA), II – In vitro experimental comparison between RSPA with RSA. <i>J. Bone Joint Surg.</i> 84-B, 908-914, 2002..	X							X	C
3:24	Kesteris U, Carlsson L, Haraldsson C, Lausmaa J, Lidgren L, Önerfält R, Wingstrand H. Contamination of polyethylene cups with poly methyl methacrylate particles: an experimental study. <i>J Arthroplasty</i> 2001;16:905-8.	X								B
3:25	Hoseini M, Lausmaa J. A new screening method for the tribological investigation of artificial joints. 2nd World Tribology Congress, Vienna, September 3-7, 2001 (oral, extended abstract).			X						B
3:26	Lausmaa J, Eriksson D, Hoseini M, Johansson A, Sjövall P. Increased wear of UHMWPE caused by calcium phosphate precipitation. 17th European Biomaterials Conference, London, England, September 12-14, 2001 (oral).			X						B
3:27	Hoseini M, Lausmaa J, Boldizar A. Tribological investigation of oriented HDPE. <i>J. Biomed. Mater. Res.</i> : <i>Appl. Biomater.</i> 61, 634-40, 2002	X							X	B
3:28	Kesteris U. Wear and Loosening in Cemented Hip Arthroplasty. Thesis. Department of Orthopedics, University of Lund, 2001.						X			C
3:29	Kjellson F, Wang J-S, Almén T, Mattsson A, Klavness J, Tanner KE, Lidgren L. Tensile properties of a bone cement containing non-ionic contrast media. <i>Journal of Materials Science: Materials in Medicine</i> 2001, 12:889-94.	X							X	C
3:30	Kjellson F, Wang J-S, Almén T, Mattsson A, Klavness J, Tanner KE, Lidgren L. Tensile properties of a bone cement containing non-ionic contrast media. European Society for Biomaterials 2001 Conference, 12th-14th September 2001, London			X					X	C
3:31	Luisetto Y, Maurer F, Wesslén B, Lidgren L, Yamac T. Effect of Artificial Aging on Irradiated UHMWPE. Nordic Polymer Days, June 2001, Stockholm			X						C
3:32	Luisetto Y, Maurer F, Wesslén B, Lidgren L, Yamac T. Relationship between Wear and Oxidation in Artificially Aged Ultra High Molecular Weight Polyethylene. European Society of Biomaterials, Sept 2001, London			X						C
3:33	Hoseini, M, Tribology of artificial joints, Chalmers University of Technology, Göteborg, 2001.						X			B
3:34	Luisetto, Y, Wesslén B, Maurer F, Lidgren L. The effects of irradiation, annealing, temperature and artificial aging on the oxidation, mechanical properties and fracture mechanisms of UHMWPE. <i>J. Biomed. Mater. Res.</i> 1:67A(3):908-917, 2003.	X							X	C
3:35	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of crosslinking and oxidation on wear and wear particles morphology of UHMWPE. In manuscript.	X								C
3:36	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of γ -irradiation on morphology and cross-linking density of Vitamin E containing UHMWPE.. In manuscript.	X								C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
3:37	Luisetto Y, Wesslén B, Maurer F, Lidgren L. The effect of γ -irradiation and artificial aging on oxidation, crystallinity, mechanical properties and wear properties of Vitamin E containing UHMWPE. In manuscript.	X								C
3:38	Luisetto Y, Wesslén B, Maurer F, Lidgren L. Addition of vitamin E to UHMWPE using Super Critical Carbon Dioxide. Nordic Polymer Days, Helsinki, Finland, May 2000.			X						C
3:39	Kjellson, F, Almén T, McCarthy, I, Lidgren L. A new clinically relevant method of measuring the attenuation of different bone cement opacifiers. J Bone Joint Surg. Accepted.	X							X	C
3:40	Kjellson F, Almén T, McCarthy I, Lidgren L. Bone cement X-Ray contrast media: A clinically relevant method of measuring their efficacy. In manuscript.	X							X	C
3:41	Skinner J, Todo S, Taylor M, Wang J-S, Pinskerova V, Scott G. Should the cement mantle around the femoral component be thick or thin? J Bone Joint Surg 85-B:45-51, 2003	X							X	C
3:42	Wang J-S, Taylor M, Flivik G, Lidgren L. Factors affecting the static shear strength of the stem-cement interface. Journal of Materials Science: Materials in Medicine 14:1-7, 2003	X							X	C
3:43	Warren McDonald: Component Integration in Total Hip Arthroplasty: Preclinical Evaluation, Department of Orthopedics, LU, Lund 2000.						X			B
3:44	Yannick Luisetto: Degradation Mechanism and Effects of Vitamin E Addition in UHMWPE Hip Implants, Department of Orthopedics, LU, Lund, 2002.						X			C
3:45	Ana Alonso Vázquez: Assessment of ankle arthrodesis with internal fixation using finite element analysis, Department of Orthopedics, LU, Lund, 2003						X		X	C

Screening of tissue integrated materials

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
4:1	Andersson A-S, Glasmästar K, Sutherland D, Lidberg U, Kasemo B. Cell adhesion on supported lipid bilayers. J Biomed Mater Res 2003; 64A:622-629	X								A
4:2	Andersson A-S, Bäckhed F, von Euler A, Richter-Dahlfors A, Sutherland D, Kasemo B. Nanoscale features influence epithelial cell morphology and cytokine production. Biomaterials 24 (2003) 3427-3436	X								A
4:3	Andersson A-S, Olsson P, Lidberg U, Sutherland D. The effects of discontinuous groove edges on cell shape and alignment. Exp Cell Res 288 (2003) 177-178	X								A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
4:4	Andersson A-S, Brink J, Lidberg U, Sutherland DS. Influence of nanoscale topography on the morphology of an epithelial cell type. IEEE Transactions in Nanobiotechnology	X								A
4:5	Andersson A-S, Glasmästar K, Hanarp P, Sutherland DS. Patterning colloidal monolayer films using microcontact particle stripping. Nanotechnology	X								B
4:6	Glasmästar K, Gold J, Andersson A-S, Sutherland DS, Kasemo B. Silicone transfer during microcontact printing. Langmuir 2003; 19: 5475-5483.	X								B
4:7	Liao H, Andersson A-S, Sutherland D, Petronis P, Kasemo B, Thomsen P. Response of rat osteoblast-like cells to microstructured model surfaces <i>in vitro</i>. Biomaterials 2003; 24:649-654.	X								A
4:8	Andersson A-S, Sutherland D, Hanarp P, Kasemo B. Colloidal lithographic methods for cell culture experiments. American Vacuum society. Boston, USA, 2000			X						B
4:9	Andersson A-S, Sutherland D, Glasmästar K, Bäckhed F, Richter-Dahlfors A, Lidberg U, Kasemo B. Cell response to chemically and topographically modified surfaces. Tissue engineering 2000. York, England, 2000			X						A
4:10	Andersson A-S, Brink J, Olsson P, Lidberg U, Sutherland DS. Influence of nanostructures on cell morphology. NANO-7/ECOSS-21. Malmö, Sweden, 2002.			X						A
4:11	Glasmästar K, Andersson A-S, Sutherland DS, Kasemo B. Silicone transfer during microcontact printing. American Vacuum Society. Denver, USA, 2002			X						B
4:12	Glasmästar K, Sutherland DS, Andersson A-SA, Lidberg U, Kasemo B. Cell and protein adhesion on surfaces. European Society for Biomaterials. London, England, 2001			X						A
4:13	Glasmästar K, Sutherland DS, Andersson A-SA, Lidberg U, Kasemo B. Cell and protein adhesion on surfaces. International Summerschool in Biomaterials. Ellös, Orust, Sweden, 2001			X						A
4:14	Liao H, Andersson A-S, Sutherland D, Petronis P, Kasemo B, Thomsen P. Response of rat osteoblast-like cells to microstructured model surfaces <i>in vitro</i> . European Society for Biomaterials. London, England, 2001			X						A
4:15	Sutherland D, Andersson A-S, Glasmästar K, Petronis P, Bäckhed F, Richter-Dahlfors A, Lidberg U, Kasemo B. Cell response to chemically and topographically modified surfaces. American Vacuum Society. Boston, USA, 2000			X						A
4:16	Karin Glasmästar: Surface Modifications for Biomaterials - Supported Lipid Bilayers and some Aspects of Microcontact Printing, Thesis for the degree of Doctor of Philosophy at Chalmers University of Technology and Göteborg University, Göteborg, 2002.						X			B

A systematic approach to improve blood compatibility of biomaterials for cardiovascular applications

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
5:1	Jaen Hong Investigation of Incompatibility Reactions Caused by Biomaterials in Contact with Whole Blood Using a New in vitro Model. Dissertation Uppsala University. 2001						X			A
5:2	Jonas Andersson. Complement Activation Triggered by Biomaterial Surfaces. Dissertation Uppsala University. 2003						X			B
5:3	Matilda Johnell. Monocytes, Tissue Factor and Heparin-coated Surfaces. Clinical and Experimental Studies. Dissertation Uppsala University. 2003.						X			A
5:4	Hong, J., Nilsson Ekdahl, K., Reynolds, H., Larsson, R., Nilsson, B. A new in vitro model to study interaction between whole blood and biomaterials. Studies of platelet and coagulation activation and the effect of aspirin (1999) Biomaterials (1999) 20: 603-11.	X								A
5:5	Hong, J., Larsson, A., Nilsson Ekdahl, K., Elgue, G., Larsson, R., and Nilsson, B.: Contact between a polymer and whole blood: The sequence of events leading to thrombin generation. J. Lab. Clin. Med. 2001, 138, 139-45	X								A
5:6	Nilsson, B., Hong, J., Larsson, R., Elgue, G., Nilsson Ekdahl, K., Sahu, A., & Lambris, J. D. Compstatin inhibits complement and cellular activation in whole blood in models for extracorporeal circulation (1998) Blood 92: 1661-1667.	X							X	A
5:7	Andersson J, Nilsson Ekdahl K, Lambris JD, Nilsson B. Complement activation on a model biomaterial surface: binding of C3 fragments generated by the alternative pathway amplification loop occurs on top of plasma proteins adsorbed to the surface. Submitted to Journal of Immunology. Received September 30, 2003.	X								A
5:8	Hong, J., Nilsson Ekdahl, K., Reynolds, H., Larsson, R., Nilsson, B. A new in vitro model to study interaction between whole blood and biomaterials. Studies of platelet and coagulation activation and the effect of aspirin (1999) Biomaterials (1999) 20: 603-11.	X								A
5:9	Andersson J, Nilsson Ekdahl K, Larsson R, Nilsson UR, Nilsson B. C3 adsorbed to a polymer surface can form an initiating alternative pathway convertase. J Immunol. 2002 Jun 1;168(11):5786-91.	X								A
5:10	Andersson, J., Larsson, R., Richter, R., Nilsson Ekdahl, K., & Nilsson, B. Binding of a model regulator of complement activation (RCA) to a biomaterial surface: Surface-bound factor H inhibits complement activation. (2001) Biomaterials 22:2435-43	X								A
5:11	Andersson, J.; Sanchez, J.; Nilsson Ekdahl, K.; Elgue, G.; Nilsson, B.; Larsson, R. Optimal heparin surface concentration and antithrombin binding capacity as evaluated with human non-anticoagulated blood in vitro. J. Biomed. Mat. Res. 2003, 67A(2), 458-66	X								A
5:12	Johnell, M.; Elgue, G.; Larsson, R.; Larsson, A.; Thelin, S.; Siegbahn, A. Coagulation, fibrinolysis, and cell activation in patients and shed mediastinal blood during coronary artery bypass grafting with a new heparin-coated surface. J. Thorac. Cardiovasc. Surg. 2002, 124, 321-32	X						X	X	A
5:13	Johnell, M.; Elgue G.; Thelin S.; Larsson R.; Siegbahn A. Cell adhesion and tissue factor up-regulation in oxygenators used during coronary artery bypass grafting are modified by the Corline Heparin Surface. Scand. Cardiovasc. J. 2002, 36,351-57.	X								A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
5:14	Johnell, M. Larsson, R. and Siegbahn, A.: The influence of different heparin concentrations and antithrombin-binding capacity on inflammation and coagulation. 2003. Submitted.	X								A
5:15	Johnell, M and Siegbahn, A.: Formation of the proteolytically active tissue factor VIIa complex leads to enhanced PDGF-BB-stimulated chemotaxis and IL-8 and TNF- α production in monocytes. 2003. Manuscript	X								B
5:16	Christensen K, Larsson A, Elgue G, Emanuelsson H and Larsson R.: Heparin coating of the stent graft – effects on platelets, coagulation and complement activation. (2001) Biomaterials, 22, 349-355	X								B
5:17	Sánchez J., Lundquist PB., Elgue G., Larsson R. and Olsson P.: Measuring the degree of plasma contact activation induced by artificial materials. <i>Thromb. Res.</i> 2002, 105, 407-12.	X								B
5:18	Kristensen EME., Rensmo H., Larsson R. and Siegbahn, H.: Characterisation of a heparin surface using photoelectron spectroscopy and quartz crystal microbalance. <i>Biomaterials.</i> 2003, 24, 4153 – 4159.	X								A
5:19	Cornelius RM, Sanchez J, Olsson P, Brash JL. Interactions of antithrombin and proteins in the plasma contact activation system with immobilized functional heparin. <i>J Biomed Mater Res.</i> 2003;67A(2):475-83.	X							X	C
5:20	Nilsson Ekdahl, K. & Nilsson B. Phosphorylation of complement component C3 after synthesis in U937 cells by a putative protein kinase CK2, which is regulated by CD11b: Evidence that membrane-bound proteases preferentially cleave phosphorylated C3. (1997) <i>Biochem J</i> 328: 625-633	X								B
5:21	Nilsson Ekdahl, K., Rönnblom, L., Sturfeldt, G & Nilsson B. Increased phosphate content in complement component C3, fibrinogen, vitronectin and other plasma proteins in SLE. Covariations with platelet activation and possible association with thrombosis. (1997) <i>Art Rheum</i> 40: 2178-2186	X								B
5:22	Nilsson Ekdahl, K. & Nilsson, B. Profound alterations in C3 functions caused by phosphorylation by a casein kinase released by activated human platelets with special reference to thiol ester function (1999) <i>J Immunol</i> 162:7426-33	X								B
5:23	Nilsson Ekdahl, K. & Nilsson, B. Increased affinity between CR1 and C3b phosphorylated by a casein kinase released by activated human platelets. (2001) <i>Eur J Immunol</i> 31: 1047-54.	X								B
5:24	Nilsson Ekdahl, K. & Nilsson B. Phosphorylation of complement component C3 after synthesis in U937 cells by a putative protein kinase CK2, which is regulated by CD11b: Evidence that membrane-bound proteases preferentially cleave phosphorylated C3. (1997) <i>Biochem J</i> 328: 625-633	X								B
5:25	Nilsson Ekdahl, K., Elgue, G. & Nilsson B. Phosphorylation of coagulation factor XI by a casein kinase released by activated human platelets increases its susceptibility to activation by factor XIIa and thrombin. (1999) <i>Thromb Haem</i> 82: 1283-1289	X								B
5:26	Jokiranta, T. S., Westin, J., Nilsson, B., Nilsson Ekdahl, K., Hellwage, J., Gordon, D. L., Nilsson, U. R. & Meri, S. Complement C3b interactions with its ligands measured by Biacore equipment: a new powerful and informative method (2001) <i>Intern Immunopharmacology</i> 1: 495-50	X							X	C
5:27	Hong, J., Azens, A., Nilsson Ekdahl, K., Granqvist, C-G. and Nilsson B.: Contact between different metal surfaces and whole blood causes material specific thrombin generation – implications for osteointegration and blood contacting devices. 2003. Submitted.	X								A
5:28	Bennet, W., Sundberg, B., Groth, C-G, Elgue, G., Brendel, M., Larsson, R., Nilsson, B., Korsgren, O. (1999) Incompatibility between human blood and isolated human islets of Langerhans: A finding with important implications for clinical intraportal islet transplantation. <i>Diabetes</i> , 48, 1907-14.	X								C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
5:29	Bennet W, Sundberg B., Lundgren, T., Tibell, A., Groth CG., Richards, A., White, D., Elgue, G., Larsson R., Nilsson B., Korsgren O. (2000) Destruction of porcine islets of Langerhans in human blood and after intraportal transplantation to cynomolgous monkey: Addition of sCR1 limits islet damage. Transplantation 69: 711-9.	X							X	C
5:30	Bennet W, Sundberg B., Groth CG., Elgue, G., Larsson R., Korsgren O., Nilsson B. (2001) A new in vitro model for the study of pig-to-human vascular hyperacute rejection. Xenotransplantation 8:176-84.	X								C
5:31	Wernberg, L., Sundberg, B., Nilsson Ekdahl, K., & Korsgren, O. C-peptide determination in islet xenotransplantation: A study in the pig-to-mouse model. (2001) Cell Transpl 10:165-173	X								C
5:32	Gröndahl, G., Johannisson, A. Jensen-Waern, M. & Nilsson Ekdahl, K. Opsonization of yeast cells with equine C3 and IgG, (2001) Vet Immunol Immunopathol 6425:1-15	X								C
5:33	Rönneild, J., Mathsson, L., Tejde, A., Nilsson Ekdahl, K., & Nilsson, B (2002). Immune complexes from SLE sera induce IL-10 production by a Fc-RII-dependent mechanism: A possible vicious circle maintaining B cell hyperactivity in SLE. (2003) Ann Rheum Dis 62, 37-42	X								C
5:34	Özmen, L., Nilsson Ekdahl, K., Elgue, G., Larsson, R., Korsgren, O., Nilsson, B Inhibition of thrombin with Melagatran abrogates instant blood mediated islet reaction (IBMIR) in vitro: Possible application in clinical allogeneic islet transplantation. (2001) Diabetes 51: 1779-84	X								B
5:35	Moberg, L., Johansson, H., Luknius, A, Berne, C., Foss, A., Källen, R., Østtraat, Ø, Salmela, K., Tibell, A., Tufveson, G., Elgue, G., Nilsson Ekdahl, K., Larsson, R., Korsgren, O. & Nilsson, B. Expression and secretion of tissue factor in the islets of Langerhans: A likely explanation for the development of thrombotic reactions in clinical islet transplantation (IBMIR) in vitro. (2002) Lancet 360:2039-2045	X								B
5:36	Öhman L., Gedda L., Larsson R., Stigbrand T., Wester K. and Carlsson J.: A new antibody recognising the VIII mutation of human EGFR. Tumor Biology. 2002, 23, 61-69.	X								B
5:37	van der Giessen, W.; van Beusekom, H.M.M.; Larsson, R.; Serruys, P.W. Heparin-coated Coronary Stents. Curr. Interventional Cardiol. Reports. 1999. 1, 234-40.				X	X			X	A
5:38	Larsson, R.: Heparin-binding to improve biocompatibility. In Encyclopedia for Biomaterials and Bioengineering. Marcel Dekker Inc. 2003, In press				X	X				A
5:39	Siegbahn, A.: Cellular consequences upon factor VIIa binding to tissue factor. Haemostasis. 2000, 30 suppl 2, 41-7.				X	X				B
5:40	Nilsson Ekdahl, K. & Nilsson, B. Phosphorylation of plasma proteins with emphasis on complement component C3 (1999) Mol Immunol 36(4-5) 233-240				X	X				B
5:41	Johnell M, Larsson R, Thelin S and Siegbahn A: Coagulation and fibrinolysis during artery bypass grafting using a new heparin-coated surface for bypass surgery. (1998) Presented at the Nordic Coagulation Meeting in Tromsø.		X							A
5:42	Christensen K, Larsson A, Elgue G, Emanuelsson H and Larsson R: The Stent Graft: Modulation of platelets and coagulation activation with heparin coating. (1998) Eur. Heart J. 19 Suppl. Abstract P2826.		X							B
5:43	M. Johnell, R Larsson, S.Thelin and A. Siegbahn: Coagulation and fibrinolysis during coronary artery bypass grafting using a new heparin-coated surface for bypass surgery. Poster at the XVII Congress of the International Society of Thrombosis and Haemostasis, in August 1999 in Washington D.C., USA.		X							A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
5:44	M. Johnell, R Larsson, S. Thelin and A. Siegbahn: Cell activation and thrombosis generation in shed mediastinal blood after coronary artery bypass grafting. Poster at the XVII Congress of the International Society of Thrombosis and Haemostasis, in August 1999 in Washington D.C. USA			X						A
5:45	Johnell M., Elgue G., Larsson R., Thelin S. and Siegbahn A: Tissue factor upregulation is increased in cells from the oxygenator after coronary artery bypass grafting. Abstract for presentation at the XVIII Congress of the International Society of Thrombosis and Haemostasis, in July 2001 in Paris, France.			X						A

Time and functionally programmed surfaces

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
6:1	J. Gold, Keynote lecture, "Micro- and nano-patterned biomaterials surfaces", ECASIA '99, 8th European Conference on Applications of Surface and Interface Analysis, Sevilla, Spain, October 4-8, 1999.			X						B
6:2	J. Gold, Keynote lecture, "Chemical and topographical surface properties on molecular and cellular length scales", EUROMAT 2003, Lausanne, CH, Sept 1-5, 2003			X						A
6:3	P Tengvall, "Proteins at the Solid-Electrolyte Interface", In Situ Nanoscale Biochemistry by SPM-Based Technologies, March 15-18, 2000, The Royal Danish Academy of Science and Letters, Copenhagen, Denmark.			X					X	A
6:4	P Tengvall, "Ellipsometric measurements on proteins at interfaces", the second meeting of "Surface Science of Biologically Important Surfaces" group, Manchester University, Manchester, U.K., Monday September 11, 2000.			X					X	A
6:5	P. Tengvall, "Blood Proteins at the Solid Interface", Nanoscale Biotechnology, Workshop, Aalborg University, Denmark, January 29-30, 2001.			X					X	A
6:6	P. Tengvall, "How Surfaces Interact with the Biological Environment", in Improving Bio-Implant Interface Reactions, Hurtigruten, Norway, April 9-13, 2002			X					X	A
6:7	P. Tengvall, "Stealth surfaces", UWEB 2 nd Symposium on Non-Fouling Surfaces, The 6 th UWEB Summer Symposium, Mary Gates Hall, University of Washington, Seattle, Washington, USA, July 31-August 2, 2002			X						A
6:8	P. Hanarp, D. Sutherland, J. Gold, "Nanostructured model biomaterial surfaces prepared by adsorption of charged polystyrene particles on titanium", NANO'98, The Fourth International Conference on Nanostructured Materials, Stockholm, June 12-20, 1998.			X						A
6:9	J. Rice, J.A. Hunt, J.A. Gallagher, J. Gold, P. Hanarp, "Osteoblast response to sub-micron surface topography in vitro", 14th European Conference on Biomaterials, The Hague, The Netherlands, September 15-18, 1998.			X					X	B
6:10	S. Petronis, C. Gretzer, J. Gold, "Microfabricated model of porous surfaces", 15th ESB-99, Arcachon, France, September 8-12, 1999.			X						A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
6:11	D.S. Sutherland, M. Broberg, H. Nygren and B. Kasemo, "Nanofabricated surfaces with nanoscale domains of differing surface chemistry and/or topography as model biomaterial surfaces: an example in a fibrinogen/platelet system", Biosurf II: Assembly and Biomimetics in Materials Synthesis and Biomaterials, Lausanne, Switzerland, October 1-2, 1998.			X						A
6:12	P. Hanarp, J. Rice, J.A. Hunt, J.A. Gallagher, D. Sutherland, J. Gold, "Osteoblast and Monocyte Response to Nanometre Surface Topography In Vitro", American Vacuum Society 46th International Symposium: Vacuum, Thin Films, Surfaces/Interfaces & Processing, Seattle, US, October 25-29, 1999.			X					X	B
6:13	Pentti Tengvall, "Complement Activation by IgM Immobilized on Methylated Silicon", Abstract Number: 753, Program Number: BI-MoA4, Session Title: Protein Solid-Surface Interactions I, contributed oral presentation at the AVS 46th International Symposium, October 25 through October 29, 1999, Seattle, WA, USA.			X						B
6:14	D.S.Sutherland, M. Broberg, H. Nygren and B. Kasemo "Functionality of a model protein at nanofabricated surfaces". 46th AVS (American Vacuum Society) Seattle, Washington USA 25-29 October 1999			X						A
6:15	P. Hanarp, D. Sutherland, J.A. Hunt, J. Gold, B. Kasemo, "Nanoporous thin films for biomaterials applications", 219th ACS National Meeting, San Francisco, California, U.S.A., March 26-30, 2000.			X					X	B
6:16	J. Rice, J.A. Hunt, J.A. Gallagher, P. Hanarp, D. Sutherland, J. Gold, "Stimulation and Adherence of Primary Unstimulated Human Monocytes and Osteoblasts to Topographically Modified Surfaces at the Nanometre Scale in Vitro", Sixth World Biomaterials Congress, Kamanuela, Hawaii, U.S.A., May 15-20, 2000.			X					X	B
6:17	Eva Jansson, Pentti Tengvall, "Preparation and in vitro characterization of thin blood plasma clot surfaces", Sixth World Biomaterials Congress, May 15-20, 2000, Hilton Waikoloa Village Resort, Kamuela (Big Island), Hawaii, USA			X						B
6:18	S. Petronis, P. Hanarp, H. Reimers, D. Sutherland, D. Chakarov, B. Kasemo, J. Gold, "Porous surfaces at nano- and micron- length scales", Sixth World Biomaterials Congress, Kamuela, USA, May 15-20, 2000.			X						A
6:19	P. Hanarp, D. Sutherland, A.-S. Andersson, J. Gold and B. Kasemo, "Colloidal Lithography", Workshop on Nanostructured Materials Made from Self-Assembled Molecules and Particles, Hindås, Sweden, January 8-10, 2001			X						A
6:20	DS. Sutherland, P. Hanarp, A. Ericsson, K. Dimitrievski and B. Kasemo, "Controlled shape of nanostructures using colloidal lithographic methods", Workshop on Nanostructured Materials Made from Self-Assembled Molecules and Particles, Hindås, Sweden, January 8-10, 2001			X						A
6:21	J. Rice, JA. Hunt, JA. Gallagher, P. Hanarp, DS. Sutherland and J. Gold, "The response of primary unstimulated human cells to a range of chemically homogenous nanotopography surfaces in vitro", European Society for Biomaterials 16th European Conference, London, UK, September 12-14, 2001			X					X	B
6:22	Jonas Wetterö, Torbjörn Bengtsson, and Pentti Tengvall, "Complement opsonization and neutrophil activation triggered by adsorbed immunoglobulin M is not dependent on C1q", 25th Anniversary Meeting of European Society for Biomaterials, London, UK, 12th-14th September 2001.			X						B
6:23	Jonas Wetterö, Pentti Tengvall, and Torbjörn Bengtsson, "Platelets Amplify the Fcγ-receptor Triggered Neutrophil Respiratory Burst at Non-Phagocytosable Surfaces: -A Role for P-Selectin Glycoprotein Ligand-1 (PSGL-1; CD162)", SFB 2002 Annual Meeting in Tampa, Florida, April 24-27, 2002.			X						B

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
6:24	Eva Jansson, Mia Källtorp, Peter Thomsen, and Pentti Tengvall, "Ex vivo PMA induced respiratory burst, and TNF α secretion from inflammatory cells on machined and porous plasma clot coated titanium", 25th Anniversary Meeting of European Society for Biomaterials, London, UK, 12th-14th September 2001. Oral			X						B
6:25	Eva Jansson, Mia Källtorp, and Pentti Tengvall, "Enhanced ex vivo inflammatory cell activity on porous titanium coated with a thin blood plasma clot", Society for Biomaterials, 27th Annual Meeting & Exposition, April 24-29, 2001, Saint Paul, Minnesota, USA			X						B
6:26	S. Petronis, F. Bäckhed, D. Sutherland, J. Gold, B. Kasemo, "A New Approach To Investigate Mechanical Cell-Substrate Interactions Using Microfabricated Model Surfaces", Summer school and workshop in biomaterials "Material-cell interaction for the development of biocompatible medical devices", Ellös, Sweden, 2001.			X						A
6:27	S. Petronis, D. Sutherland, J. Gold, B. Kasemo, "Microfabricated force-sensitive model surfaces for investigating mechanical cell-substrate interactions", Swedish Nano Network Workshop: Emerging nanosciences - nanomaterials and nanobiology, Sigtuna, Sweden, 2001.			X						A
6:28	P. Hanarp, D. S. Sutherland, J. Gold, B. Kasemo, "Optical properties of shaped gold nanoparticles", 76th Colloid and Surface Science Symposium (American Chemical Society), University of Michigan, Ann Arbor, USA, June 23-26, 2002			X						A
6:29	DS. Sutherland, P. Hanarp and B. Kasemo, "Optical properties of shaped gold nanoparticles", NANO-7 (7th International Conference on Nanometer-scale Science and Technology) and ECOSS-21 (21st European Conference on Surface Science), Malmö, Sweden, June 24-28, 2002			X						A
6:30	P. Hanarp, D. S. Sutherland, J. Gold, B. Kasemo, "Optical spectroscopy of nanostructured surfaces for biosensing applications", VINNOVA Medicinsktkniska Konferens, Karolinska Institutet och Södertörns Högskola, Huddinge, Sweden, October 8-9, 2002			X						A
6:31	Pentti Tengvall, Eva Jansson, Agneta Askendal, Peter Thomsen, and Christina Gretzer "Preparation of multilayered plasma protein films on silicon by EDC/NHS coupling chemistry", ESB conference 2002, Barcelona, Spain, September 11-14, 2002, oral presentation.			X						B
6:32	L M Karlsson, P Tengvall, I Lundström, and H Arwin, "Adsorption of Human Serum Albumin in Porous Silicon Gradients", Porous semiconductor science and technology, Tenerife, Spain, March 11-15, 2002 (PSST 2002) (oral presentation)			X						C
6:33	F. Suska, M. Källtorp, M. Esposito, C. Gretzer, P. Tengvall, and P. Thomsen, "In Vivo/Ex Vivo Cellular Interactions with Titanium and Copper Cytokine Secretion", 25th Anniversary Meeting of European Society for Biomaterials, London, UK, 12th-14th September 2001 (oral presentation).			X						C
6:34	B. Kasemo, J. Gold, "Implant surfaces and interface processes". Adv. Dent. Res. 1999; 13: 8-20.	X								C
6:35	P. Hanarp, D. Sutherland, J. Gold and B. Kasemo, "Nanostructured model biomaterial surfaces prepared by colloidal lithography", Nanostructured Materials, 12:429-432, 1999	X								A
6:36	P. Tengvall and A. Askendal, "Ellipsometric in vivo Studies of the Activation of Complement by Human Immunoglobulin M after Adsorption to Methylated Silicon", Colloids and Surfaces, B: Biointerfaces, 20(1), 51-62(2001).	X								B
6:37	X. Sun, H. Sheardown, P. Tengvall, and J.L. Brash, "Peptide Modified Gold Coated Polyurethanes as Thrombin Scavenging Surfaces", J.Biomed. Mater. Res, 49: (1) 66-78, 2000	X							X	C
6:38	E Jansson, P Tengvall, "In vitro Preparation and Ellipsometric Characterization of Thin Blood Plasma Clot Model Surfaces", Biomaterials, 22: (13) 1803-1808 2001	X								A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
6:39	Denis FA, P Hanarp, D Sutherland, J Gold, C Mustin, PG Rouxhet, Y Dufrene, "Protein Adsorption on Model Surfaces with Controlled Nanotopography and Chemistry, <i>Langmuir</i> , 2002, 18, p819-828	X							X	B
6:40	Hanarp P, DS Sutherland, J Gold, B Kasemo, "Influence of polydispersity on adsorption of nanoparticles", <i>Journal of Colloid and Interface Science</i> , 241:26-31, 2001	X								A
6:41	Hanarp P, DS Sutherland, J Gold, B Kasemo, "Control of nanoparticle film structure for colloidal lithography", <i>Colloids and Surfaces A</i> , 214 (1-3): 23-36, 2003.	X								A
6:42	Eva Jansson, Mia Källtorp, Anna Johansson, Pentti Tengvall and Peter Thomsen, "On the formation of fibrous capsule and fluid space around machined and porous blood plasma clot coated titanium", <i>J MATER SCI-MATER M</i> 12: (10-12) 1019-1024 2001	X								B
6:43	Eva Jansson, Mia Källtorp, Peter Thomsen, Pentti Tengvall, "Ex vivo PMA induced respiratory burst and TNF α secretion elicited from inflammatory cells on machined and porous blood plasma clot coated titanium", <i>Biomaterials</i> , 23(13), 2803-2815(2002).	X								B
6:44	Jonas Wetterö, Torbjörn Bengtsson, and Pentti Tengvall, "C1q-independent activation of neutrophils by immunoglobulin M coated surfaces", <i>J Biomed. Mater. Res</i> 57 (4): 550-558 Dec 15 (2001).	X								A
6:45	S. Petronis, C. Gretzer, B. Kasemo, J. Gold, "Model porous surfaces for systematic studies of material-cell interactions", <i>J. Biomed. Mater. Res.</i> 66A(3): 707-721 2003	X								A
6:46	S. Petronis, D. Sutherland, J. Gold, B. Kasemo, "Microfabricated elastic substrates and force-sensors for investigation of mechanical cell-substrate interactions", <i>J Micromech Microeng.</i> 13: 900-913, 2003	X								A
6:47	FA. Denis, P. Hanarp, DS. Sutherland and YF. Dufrene, "Fabrication of nanostructured polymer surfaces using colloidal lithography and spin coating", <i>Nanofletters</i> , 2: 1419-1425, 2002	X							X	B
6:48	J. Aizpurua, P. Hanarp, DS. Sutherland, M. Käll, GW. Bryant and FJ. Garcia de Abajo, "Optical properties of gold nanorings", <i>Physical Review Letters</i>, 90, 057401 (2003)	X							X	C
6:49	P. Hanarp, M. Käll and D.S. Sutherland, "Optical properties of short-range ordered arrays of nanometer gold disks prepared by colloidal lithography", <i>Journal of Physical Chemistry B</i> , 107, p. 5768-5772 (2003)	X								C
6:50	Pentti Tengvall and Agneta Askendal, "Ellipsometric in vitro studies on blood plasma and serum adsorption to zirconium", <i>J. Biomed. Mater. Res.</i> 57: (2) 285-290(2001).	X								A
6:51	Eva Jansson, Mia Källtorp, Anna Johansson, Pentti Tengvall and Peter Thomsen, "On the formation of fibrous capsule and fluid space around machined and porous blood plasma clot coated titanium", <i>J Mater Sci-Mater Med</i> 12: (10-12) 1019-1024(2001).	X								B
6:52	Johan Benesch and Pentti Tengvall, "Blood Protein Adsorption onto Chitosan", <i>Biomaterials</i> , 23(12), 2561-2568, 2002.	X								A
6:53	Johan Benesch, Agneta Askendal, and Pentti Tengvall, "The Determination of Thickness and Surface Mass Density of Mesothick Immunoprecipitate Layers by Null Ellipsometry and Protein ¹²⁵Iodine Labelling, <i>J. Colloid Interface Sci.</i>, 249 (1): 84-90 MAY 1 2002.	X								A
6:54	Jonas Wetterö, Pentti Tengvall and Torbjörn Bengtsson, "Platelets stimulated by IgG-coated surfaces bind and activate neutrophils through a selectin-dependent pathway", <i>Biomaterials</i> , 24(9) 1559-1573(2003).	X								A
6:55	P. Tengvall, E. Jansson, A. Askendal, P Thomsen and C Gretzer, "Preparation of multilayer plasma protein films by EDS/NHS coupling chemistry on silicon", <i>Coll Surf B: Biointerfaces</i> .	X								B

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
6:56	J. Wetterö, A. Askendal, P. Tengvall and T. Bengtsson, "Interactions between surface-bound actin and complement, platelets and neutrophils", J. Biomed. Mater. Res.	X								A
6:57	JM Rice, JA Hunt, JA Gallagher, P Hanarp, DS Sutherland, J Gold, "Quantitative assessment of the response of primary derived human osteoblasts and macrophages to a range of nanotopography surfaces in a single culture model in vitro", Biomaterials, 24, p 4799-4818 (2003)	X							X	B
6:58	P. Tengvall, "Proteins at Titanium Interfaces", chapter 14 in Titanium in Medicine, M. Textor, P. Thomsen, D. Brunette, and P. Tengvall (eds.), Springer Verlag, Heidelberg, 2001		X							C
6:59	Pentti Tengvall, "How Surfaces Interact with the Biological Environment", in Improving Bio-Implant Interface Reactions, March 2003, CRC Press, Boca Raton, FL, USA.		X							C
6:60	P. Hanarp, "Nanostructured biomaterial surfaces using colloidal particles", Diploma thesis, Dept of Applied Physics, Chalmers Univ. of Technology and Göteborg University, May 1998.						X			A
6:61	M. Schultzberg, "Electrochemical preparation and ellipsometric characterization of porous silicon", Diploma thesis, Laboratory of Applied Physics, Linköping University, February 1999.						X			C
6:62	P. Olausson, "Synthesis of covalently attached coboxymethylidextran and heparin coatings on silicon oxide surfaces - A multi-layer approach", Diploma Thesis, LiTH-IFM-Ex-1114, February 2002.						X			A
6:63	S. Petronis, "Topographic micropatterning of biomaterials using silicon templates". Licentiate Thesis, Dept of Applied Physics, Chalmers University of Technology and Göteborg University, June 2000.						X			C
6:64	P. Hanarp, "Nanofabrication with colloidal particles", Licentiate thesis, Department of Applied Physics, Chalmers University of Technology and Göteborg University, November 2000						X			A
6:65	S. Petronis, "Functionalized biomaterial surfaces by micro- and nanofabrication". Doctoral Thesis, Dept of Applied Physics, Chalmers University of Technology and Göteborg University, June 2002.						X			B
6:66	P. Hanarp, "Optical properties of nanometer disks, holes and rings prepared by colloidal lithography", Doctoral thesis, Department of Applied Physics, Chalmers University of Technology and Göteborg University, December 2003						X			A
6:67	Jonas Wetterö, "Acute inflammation on model biomaterial surfaces - studies on proteins, neutrophils and platelets" Doctoral thesis, Laboratory of Applied Physics, IFM, Linköping University, 2003						X			A
6:68	Eva Kälvesten, "Blood protein coated model biomaterials - preparation, and cell and tissue response", Doctoral thesis, Laboratory of Applied Physics, IFM, Linköping University, 2003						X			A
6:69	Johan Benesch, "Null Ellipsometry for the Analysis of Protein Deposition onto Model Biomaterials", Laboratory of Applied Physics, IFM, Linköping University, 2003						X			A

Investigations of mussel adhesive proteins for application in bio-material research and in clinic

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.1:1	Camilla Fant, Studies on Cross-Linking and Protein-Protein Interactions of Adhesive Proteins from the Blue Mussel, Thesis for the degree of Doctor of Philosophy at Göteborg University, 2002						X			A
7.1:2	Adsorption behavior and enzymatically or chemically induced cross-linking of a mussel adhesive protein, Fant C, Sott K, Elwing H, Hook F, BIOFOULING, 16 (2-4): 119-132 2000	X						X	X	B
7.1:3	Variations in coupled water, viscoelastic properties, and film thickness of a Mefp-1 protein film during adsorption and cross-linking: A quartz crystal microbalance with dissipation monitoring, ellipsometry, and surface plasmon resonance study, Hook F, Kasemo B, Nylander T, Fant C, Sott K, Elwing H, ANALYTICAL CHEMISTRY, 73 (24): 5796-5804 DEC 15 2001	X						X	X	B
7.1:4	The influence of cross-linking on protein-protein interactions in a marine adhesive: The case of two byssus plaque proteins from the blue mussel, Fant C, Elwing H, Hook F, BIOMACROMOLECULES, 3 (4): 732-741 JUL-AUG 2002	X						X	X	B

Supported biomembranes

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.2:1	K. Dimitrievski, E. Reimhult, B. Kasemo, V.P. Zhdanov, Simulations on temperature dependence of the formation of a supported lipid bilayer via vesicle adsorption. Submitted.	X								A
7.2:2	M Zäch and B Kasemo, Tip-induced artifacts associated with the AFM imaging of lipid vesicles, AIP Conference Proceedings 2003 Vol. 696 p. 447-451			X						A
7.2:3	M Zäch and B Kasemo Nanoscale AFM-Patterning of Lipid Vesicles and Bilayers. Submitted (2004)			X						A
7.2:4	Reimhult, E., Vesicles vs. Surfaces, Thesis for the degree of Licentiate at Chalmers University of Technology and Göteborg University, 2002						X			C
7.2:5	Granéli, A., Rydström, J., Kasemo, B., and Höök, F., Formation of supported lipid bilayer membranes on SiO ₂ from proteoliposomes containing transmembrane proteins, Langmuir 19 (2003) 842-850	X								C

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.2:6	Andersson AS, Glasmästar K, Sutherland D, et al., Cell adhesion on supported lipid bilayers., J BIOMED MATER RES A 64A (4): 622-629 MAR 15 2003 (mainly financed from the STIM project)	X								B
7.2:7	Reimhult E, Höök F, Kasemo B., Intact vesicle adsorption and supported biomembrane formation from vesicles in solution: Influence of surface chemistry, vesicle size, temperature, and osmotic pressure, LANGMUIR 19 (5): 1681-1691 MAR 4 2003	X			X					C
7.2:8	Reimhult E, Höök F, Kasemo B., Temperature dependence of formation of a supported phospholipid bilayer from vesicles on SiO ₂ , PHYS REV E 66 (5): Art. No. 051905 NOV 2002	X								C
7.2:9	Reimhult E, Höök F, Kasemo B., Vesicle adsorption on SiO ₂ and TiO ₂ : Dependence on vesicle size, J CHEM PHYS 117 (16): 7401-7404 OCT 22 2002	X								C
7.2:10	Kasemo B, Höök F., Protein and vesicle interaction with surfaces. ABSTR PAP AM CHEM S 223: 387-COLL Part 1 APR 7 2002	X								B
7.2:11	Glasmästar K, Larsson C, Höök F, et al., Protein adsorption on supported phospholipid bilayers, J COLLOID INTERF SCI 246 (1): 40-47 FEB 1 2002	X								B
7.2:12	Zhdanov VP, Kasemo B, Comments on rupture of absorbed vesicles, LANGMUIR 17 (12): 3518-3521 JUN 12 2001	X								B
7.2:13	Zhdanov VP, Kasemo B, Lipid-diffusion-limited kinetics of vesicle growth, LANGMUIR 16 (19): 7352-7354 SEP 19 2000	X								A
7.2:14	Zhdanov VP, Kasemo B, Simulation of diffusion of vesicles at a solid-liquid interface, LANGMUIR 16 (10): 4416-4419 MAY 16 2000	X								A
7.2:15	Keller CA, Glasmastar K, Zhdanov VP, et al., Formation of supported membranes from vesicles, PHYS REV LETT 84 (23): 5443-5446 JUN 5 2000	X								C
7.2:16	Zhdanov VP, Keller CA, Glasmästar K, et al., Simulation of adsorption kinetics of lipid vesicles, J CHEM PHYS 112 (2): 900-909 JAN 8 2000	X								B
7.2:17	Keller CA, Kasemo B, Surface specific kinetics of lipid vesicle adsorption measured with a quartz crystal microbalance, BIOPHYS J 75 (3): 1397-1402 SEP 1998	X								B
7.2:18	Rodahl M, Höök F, Fredriksson C, et al., Simultaneous frequency and dissipation factor QCM measurements of biomolecular adsorption and cell adhesion, FARADAY DISCUSS 107: 229-246 1997	X		X						C
7.2:19	Erik Reimhult, "Vesicles vs. Surfaces", Licentiate thesis, Dept. of Applied Physics, Chalmers University of Technology and Göteborg University, 2002.						X			C
7.2:20	Charlotte Larsson, "Functionalized lipid assemblies for biosensing applications", Licentiate thesis, Dept. of Applied Physics, Chalmers University of Technology and Göteborg University, 2003.						X			C
7.2:21	Kristian Dimitrievski, "Simulations of protein folding and formation of supported biomembranes via vesicle adsorption" Licentiate thesis, Dept. of Applied Physics, Chalmers University of Technology and Göteborg University, 2004.						X			B
7.2:22	Kasemo, B., Surface science studies of biological relevant model systems, Spring meeting of the German Physical Society (1997), Münster, Germany			X						C
7.2:23	Kasemo, B., Nano- and microfabrication of surface structures for specific functions in heterogeneous catalysis and biological applications, Surface Science Chemistry Symposium in Honor of Gabor A. Somorjai, ACS National Meeting (1999), San Francisco			X						C
7.2:24	Kasemo, B., Chemical and topographic surface microarchitectures for control of biological response - G. Winter award lecture, 15th European Conference of Biomaterials (1999), Arcachon, France			X						A

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.2:25	Kasemo, B., Adsorption of supported membranes and proteins on surfaces, Biosurf III (1999), Zürich, Switzerland			X	X					A
7.2:26	Kasemo, B., Interfaces between synthetic materials and biological systems; functional surfaces for implants, biosensors and other applications, ACS National Meeting "Symposium on Modeling Supported Catalysts in Surface Science" (1999), Anaheim, California USA			X	X					B
7.2:27	Kasemo, B., Biointerface studies with the QCM-D technique; methodology and applications, The Sixth World Biomaterials Congress (2000), Kamuela, Hawaii, USA			X	X					A
7.2:28	Kasemo, B., Surface microarchitectures for biomaterials and biosensors, Gordon Conference on Chemical Reactions at Surfaces (2001), Ventura, USA			X	X					B
7.2:29	Kasemo, B., Preparation and characterization of thin polymer films and supported biomembranes for biointerfaces, Third International Symposium on Polymer Surface Modification (2001), Newark, USA.			X	X					A
7.2:30	Kasemo, B., Topographic and Chemical Modification of Surfaces for Biointerfaces: Preparation and Evaluation, Microscopy of Biomaterials IV (2001), York, UK			X	X					B
7.2:31	Kasemo, B., Biokompatibla material - hur man gör materialytor funktionella i biologiska miljöer, 46:e Berzeliusdagarna 2001 (2001), Stockholm, Sweden			X	X					A
7.2:32	Kasemo, B., Topographic and chemical surface functionalization for biointerfaces, 2nd Workshop of Nanochemistry and Nanobiotechnology (2001), Stockholm, Sweden			X	X					B
7.2:33	Kasemo, B., Chemical and topographic tailoring of surfaces for sensing and cell growth, International Workshop on Cell-Substrate Interactions (2001), Tegernsee, Bavaria, Germany			X	X					A
7.2:34	Kasemo, B., Surface preparation and evaluation for biointerfaces, ECM III The Cell-Biomaterial Interaction (2001), Davos, Switzerland			X	X					A
7.2:35	Kasemo, B., Nano- and micropatterning of material surfaces for biological and medical environments, Sweden-China Symposium on Materials Science (2001), Göteborg, Sweden			X	X					A
7.2:36	Kasemo, B., Material-biosystem interfaces; chemical and topographic modification for improved bio-recognition, ISSC-13 (2001), University College, London, UK			X	X					A
7.2:37	Kasemo, B., The QCM-D; a new technique for design and evaluation of biointerfaces and time-resolved evaluation of biointerfacial processes, TAC workshop, University of Montana, Bozeman, July 24, 2001.			X	X					B
7.2:38	Kasemo, B., Functional nanofabricated surfaces for bio-recognition and catalysis, Emerging Nanosciences - Nanomaterials and Nanobiology (2001), Sigtuna, Sweden			X	X					B
7.2:39	Kasemo, B., Topographic and chemical modifications of surfaces for biointerfaces: preparation and in vitro model studies, 2001 ACS National Meeting (2001), Chicago, IL, USA			X	X					A
7.2:40	Kasemo, B., Chemical and Topographic Functionalization of Surfaces for Catalysis and Biointerfaces, Ekmandagarna (2001), Folkets Hus, Stockholm, Sweden			X	X					A
7.2:41	Kasemo, B., Surface Science in Biology, 20th European Conference on Surface Science (ECOSS) (2001), Krakow, Poland			X	X					A
7.2:42	Kasemo, B., Biological surface science – how chemical and topographic nano- and micropatterns on surfaces can be used to influence, repair and sense biological systems, Symposium Royal Academy of Belgium, Brussels, Jan 11-12, (2002)			X	X					B

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.2:43	Kasemo, B., Protein and vesicle interaction with surfaces, 223rd ACS Meeting (2002), Orlando, FL, USA			X	X					B
7.2:44	Kasemo, B., Patterning and chemical functionalization of surfaces for biomolecules and cells, Japansk-svenskt symposium i bioelektronik (2002), Sigtuna, Sweden			X	X					B
7.2:45	Kasemo, B., Vesicle to lipid bilayer transformation on solid surfaces; Monte Carlo simulations and recent experiments, Euresco Conferences, Computational Biophysics: Integrating Theoretical Physics and Biology (2002), San Feliu de Guixols, Spain			X	X					B
7.2:46	Kasemo, B., Nano-and micropatterning of bifunctional surfaces, European Materials Research Society, E-MRS (2002), Strasbourg, France			X	X					B
7.2:47	Kasemo, B., Surface micro- and nanoarchitectures for biomolecules, cells and tissue, Joint Wellcome Trust & Swedish Foundation for Strategic Research Meeting (datum 2002), Hinxton Retreat, Cambridge, UK			X	X					A
7.2:48	Kasemo, B., Biofunctional surfaces - trends in chemical and topographic patterning of surfaces to steer their biological response, European Orthopaedic Research Society (datum2002), Lausanne, Switzerland			X	X					A
7.2:49	Kasemo, B., Functional surfaces for biology and medicin; nano- and microstructured patterns and biochemical overlayers for steered biological response, Science des Surfaces - Nano 2002 (datum2002), Porquerolles, France			X	X					B
7.2:50	Kasemo, B., " Nanoscience and nanotechnology in materials technology, sensing, biomedicine and catalysis" at Forum for nanotechnology and functional materials, NTNU-Trondheim, Selbusjøen Hotell og Gjestegiveri October 29th-30th, 2002			X	X					C
7.2:51	BK, Nanoscience and Nanotechnology - illustrates the opportunities and needs for change in research and education" . Life in Science- Science in Life, Copenhagen, Nov 6-7, 2002			X	X					B
7.2:52	Kasemo, B., K Dimitrievski, F. Höök, B. Kasemo, E Reimhult, M. Zäch, V.P. Zhdanov, Preparation, properties and applications of supported phospholipid bilayers; QCM-D, SPR, Gordon Research Conference, "Organic Thin Films", May 18-23, 2003, Il Ciocco, Italy			X	X					B
7.2:53	Kasemo, B., Interfaces between living systems and synthetic surfaces; how did the field emerge, where are we , where do we go? 10th anniversary of LSST, ETH, Zürich, June 13, 2003			X	X					C
7.2:54	Kasemo, B., Functional Surfaces for Controlled Biorecognition; Nanofabrication, Biochemical Patterning and in Vitro Applications EURESCO Conference on Biological Surfaces and Interfaces, Castelvecchio Pascoli IT, 21-26 June 2003			X	X					A
7.2:55	Kasemo, B., Multi-technique Studies of Bio-Interface Kinetics; QCM-D, (Nanoparticle) SPR, SERS, AFM, Electrical Impedance, and Cell Force Sensor, AVS Annual Meeting Baltimore MD, November 2-7, 2003, within the Biomaterials Interfaces program.			X	X					C
7.2:56	Kasemo, B., Nano-and microfabricated surfaces for control and diagnostics of biointerfaces, Japan-Sweden Bionanotechnology Workshop November 9 (Sun) – 11 (Tue), 2003, Kyoto Kokusai Hotel, Kyoto, Japan			X	X					A

Neural stem cell culture model

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.3:1	D Dahlborg, S Svedhem, J Ekeröth, J Kelly, P Eriksson, F Höök, J Gold, "Biofunctionalized supported lipid bilayers - An approach to controlling cells at surfaces", EUROMAT 2003, Lausanne, CH, Sept 1-5, 2003			X						B
7.3:2	D Dahlborg, S Svedhem, J Ekeröth, J Kelly, P Eriksson, F Höök, J Gold, "Biofunctionalized supported lipid bilayers - An approach to controlling cells at surfaces", ET2003: Engineering of Living Tissues Workshop, Hilton Head Island, SC, Feb 26-March 2, 2003.			X						B
7.3:3	J Kelly, D Dahlborg, S Svedhem, D Sutherland, P Eriksson, J Gold, "Bioactive surfaces for control of stem cell differentiation", AVS 49 th International Symposium, Denver Colorado, November 3-8, 2002			X						A

Bone cell culture model

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.4:1	Göransson, A., Gretzer, C., Johansson, A., Sul YT., Wennerberg, A. Inflammatory response to oxidised surface with Mg ²⁺ -ions incorporated <i>in vitro</i> (submitted abstract).			X			X			

Lotus-leaf effect

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.4:1	Per Holgerson, Julie Gold, Duncan S. Sutherland, Bengt Kasemo and Dinko Chakarov: "Patterning and modification of PDMS surface through Si laser micromachining and molding" Manuscript in preparation.	X								A

Theoretical modelling and simulations

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF). Boldface: the three most important publications.

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
	<i>Protein folding and unfolding</i>									-
7.5:1	Dimitrievski K, Kasemo B, Zhdanov VP, Rate-determining moves in protein folding J CHEM PHYS 115 (6): 2841-2845 AUG 8 2001	X								A
7.5:2	Zhdanov VP, Kasemo B, Folding of bundles of alpha-helices in solution, membranes, and adsorbed overlayers, PROTEINS 42 (4): 481-494 MAR 1 2001	X								A
7.5:3	Dimitrievski K, Kasemo B, Zhdanov VP, Chain length scaling of protein folding time: Beta sheet structures, J CHEM PHYS 113 (2): 883-890 JUL 8 2000	X								A
7.5:4	Zhdanov VP, Folding time of ideal beta sheets vs. chain length, EUROPHYS LETT 42 (5): 577-581 JUN 1 1998	X								A
	<i>Protein adsorption and processes in 2D protein layers</i>									-
7.5:5	Kinetics of protein aggregation with formation of unreactive intermediates. Vladimir P. Zhdanov and Bengt Kasemo, Langmuir, in press.	X								
7.5:6	Zhdanov VP, Kasemo B, Ordering of adsorbed proteins, PROTEINS 40 (4): 539-542 SEP 1 2000	X								A
7.5:7	Zhdanov VP, Kasemo B, Monte Carlo simulation of diffusion of adsorbed proteins, PROTEINS 39 (1): 76-81 APR 1 2000	X								A
7.5:8	Zhdanov VP, Kasemo B, Nontraditional models of Ostwald ripening on solid surfaces: from physics to biology, SURF SCI 437 (3): 307-316 SEP 1 1999	X								A
7.5:9	Zhdanov VP, Kasemo B, Kinetics of irreversible adsorption of deformable proteins, J CHEM PHYS 109 (15): 6497-6501 OCT 15 1998	X								A
7.5:10	Zhdanov VP, Kasemo B, Monte Carlo simulations of the kinetics of protein adsorption, SURF REV LETT 5 (2): 615-634 APR 1998	X								A
7.5:11	Zhdanov VP, Kasemo B, Monte Carlo simulation of denaturation of adsorbed proteins, PROTEINS 30 (2): 168-176 FEB 1 1998	X								A
7.5:12	Zhdanov VP, Kasemo B, Monte Carlo simulation of the kinetics of protein adsorption, PROTEINS 30 (2): 177-182 FEB 1 1998	X								A
7.5:13	Zhdanov VP, Kasemo B, Monte Carlo simulation of protein folding with orientation-dependent monomer-monomer interactions, PROTEINS 29 (4): 508-516 DEC 1997	X								A
7.5:14	Zhdanov VP, Kasemo B, Simulations of denaturation of adsorbed proteins, PHYS REV E 56 (2): 2306-2309 AUG 1997	X								A
	<i>Kinetic and oscillatory processes in cells</i>									-
7.5:15	A model of Ca ²⁺ oscillations induced in cells by bacteria. Agneta Richter-Dahlfors, Vladimir P. Zhdanov and Bengt Kasemo. Submitted.	X								B
7.5:16	Zhdanov VP, Simulations of glycolytic oscillations in cells with compartments, INT J BIFURCAT CHAOS 12 (7): 1643-1652 JUL 2002	X								B

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
7.5:17	Zhdanov VP, Kasemo B, Synchronization of metabolic oscillations: Two cells and ensembles of adsorbed cells, J BIOL PHYS 27 (4): 295-311 2001	X								B
7.5:18	Zhdanov VP, Kasemo B, Conformational dynamics in enzymatic reactions, EUROPHYS LETT 57 (2): 295-301 JAN 2002	X								A
7.5:19	Zhdanov VP, Kasemo B, Simulations of oscillatory glycolytic patterns in cells, PHYS CHEM CHEM PHYS 3 (17): 3786-3791 2001	X								B
7.5:20	Zhdanov VP, Simulation of enzymatic cellular reactions complicated by phase separation, PHYS REV E 63 (1): Art. No. 011908 Part 1 JAN 2001	X								A
7.5:21	Zhdanov VP, Model of oscillatory patterns in cells: autocatalysis and transport via the cell membrane, PHYS CHEM CHEM PHYS 2 (22): 5268-5270 2000	X								A
	<i>(Stem) cell growth and differentiation on surfaces</i>									-
7.5:22	Zhdanov VP, Kasemo B, From a pluripotent stem cell to an ensemble of differentiated cells: Elements of theoretical tissue engineering, PHYS CHEM CHEM PHYS 6 (1): 138-143 2004	X								A
7.5:23	Zhdanov VP, Kasemo B, Simulation of morphogenesis: From a pluripotent stem cell to an ensemble of differentiated cells, PHYS CHEM CHEM PHYS 5 (7): 1433-1439 2003	X								A
	<i>Other modelling</i>									-
7.5:24	Zhdanov VP, Cellular oscillator with a small number of particles, EUR PHYS J B 29 (3): 485-489 OCT 2002	X								A
7.5:25	Zhdanov VP, Kasemo B, Simulation of maintenance of the epidermis PHYS CHEM CHEM PHYS 4 (19): 4609-4611 2002	X								A

Cell-force sensor

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
8.2:1	Petronis S, J Gold, B Kasemo, "Microfabricated force-sensitive elastic substrates for investigation of mechanical cell-substrate interactions", J Micromech Microeng. 13: 900-913, 2003	X								A
8.2:2	N Tymchenko, S Petronis, L M Bjursten, B Kasemo, J Gold. "Detection of cellular traction forces by microfabricated Si force sensors", EUROMAT 2003, Lausanne, CH, Sept 1-5, 2003		X							A

Neural stem cell differentiation under electrical stimulation

No publications has yet come out of this project.

Probing interactions between phospholipids and phosphatidyl choline containing polymers

No publications has yet come out of this project.

Mucin modification of biomaterials: Biopolymer adsorption kinetics and surface arrangement

No publications has yet come out of this project.

TOF-SIMS-analysis of complex surface modifications

No publications has yet come out of this project.

QCM-D based characterization of lipid-based sensor templates developed for SPR analysis

No publications has yet come out of this project.

Preparation, characterization and immune system activation in blood by new conducting electrode materials in pacemaker applications

No publications has yet come out of this project.

Soft and bone tissue reactions on loaded microimplants with different surface modifications

No publications has yet come out of this project.

Interaction of antithrombin with different types of heparin surfaces with implications for cellular interactions

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
9.6:1	Andersson, J.; Sanchez, J.; Nilsson Ekdahl, K.; Elgue, G.; Nilsson, B.; Larsson, R. Optimal heparin surface concentration and anti-thrombin binding capacity as evaluated with human non-anticoagulated blood in vitro. <i>J. Biomed. Mat. Res.</i> 2003, 67A(2), 458-66	X								A
9.6:2	Kristensen EME., Rensmo H., Larsson R. and Siegbahn, H: Characterisation of a heparin surface using photoelectron spectroscopy and quartz chrystal microbalance. <i>Biomaterials.</i> 2003, 24, 4153 – 4159.	X								A
9.6:3	Johnell, M, Larsson R., and Siegbahn A.: The influence of different heparin surface concentrations and antithrombin-binding capacity on inflammation and coagulation . 2003, submitted	X								A

Publications not related to a specific project

J- Journal article submitted, accepted or published, B-book, CP-conference presentation, I-invited, R-review, O-Other (e.g. theses), IND- with industrial cooperation, INT- with international cooperation, %SSF: A=100-75%; B=75-25%; C=25-1% (funding from SSF).

No	Title	JA	B	CP	I	R	O	IND	INT	% SSF
X1	Kasemo, B., Biological surface science, Current opinion in Solid State & Materials Science 5 (1998) 451-459	X			X	X				A
X2	Kasemo, B., Biological Surface Science, Surface Science 500 (2002) 656-677	X			X	X				B