

AEGEAN CONFERENCES

*Linking the international scientific community
Bringing the humanity scholars together*

2nd International Conference on Tissue Engineering

**May 22-27, 2005
Aldemar: Knossos Royal Village
Crete, Greece**

GENERAL INFORMATION

Accommodations

The conference participants will be staying at the Aldemar: Knossos Royal Village (A' class), which is located in Hersonissos, 25 km from the airport.

Breakfast

Breakfast will be served at your hotel during the hours scheduled in this program.

Conference Venue

The Aldemar: Knossos Royal Village Conference Center is located at the hotel.

Oral Presentations

An LCD projector, a projector for 2x2 inches slides, and an overhead projector will be available for the oral presentations. Speakers are asked to bring their USB/CD or slides to the slide reception desk at least 30 minutes before the starting of the session.

Posters

Posters should be mounted Monday morning, May 23, on the designated boards and dismounted at the end of the meeting. The dimensions of the boards are 110W x 170H cm. Adhesive tape for mounting the posters on the boards will be available at the poster area.

Welcome Reception and Banquet

Badges are **required** for admission.

Tour to Knossos and Museum

Busses for the island tour will be leaving from the hotel on Tuesday, May 24 at 2:30 p.m. Accompanying persons will also be picked up at the hotel front lobby at that time. **Badges** are **required** for participation.

Lunches

Lunches will be served at the indicated times to all registered participants and registered accompanying persons in the hotel. **Badges** are **required** for admission.

Tour and Travel Information

A desk operated by the personnel of our official travel agency, “**ERA Ltd.**”, 8 Alexandrou Soutsou Str., Kolonaki 10671 Athens – Greece
Tel.: 30-1-363-4944, FAX: 30-1-3631690, E-Mail: info@era.gr
will be located at the conference center throughout the meeting.

The organizers gratefully acknowledge the generous help provided by Dimitrios Lambris in managing the organization of this meeting, and designing and publishing this program.

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2nd International Conference on Tissue Engineering

Aldemar: Knossos Royal Village

May 22-27, 2005

Crete, Greece

CONFERENCE CHAIRS

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PROGRAM OUTLINE

Sunday, May 22

Registration	5:00-8:00 PM	Hotel Lobby
Welcome Reception/Dinner	8:00 PM	Main Restaurant

Monday, May 23

Breakfast	6:30 AM	Main Restaurant
Registration	8:00 –1:00 PM	Conference Center Lobby

Welcome and Opening Remarks 8:00 AM Conference Center

Keynote Address 8:10 AM Conference Center

Session I 9:00 AM Conference Center

Coffee break 11:05 AM Conference Center

Session II 11:35 AM Conference Center

Lunch 1:40 PM Main Restaurant

Dinner 8:00 PM Local Greek Tavern

The bus for the tavern will depart from the hotel at 7:30 PM

Tuesday, May 24

Breakfast	6:30 AM	Main Restaurant
Session III:	8:00 AM	Conference Center
Coffee break	10:05 AM	Conference Center

Session IV:	10:35 AM	Conference Center
Session V:	12:40 PM	Conference Center
Lunch	1:40 PM	Main Restaurant
Tour	2:30 PM	Knossos Archaeological site & Archaeological Museum of Heraklion
<i>The bus for the tour will depart from the hotel at 2:30 PM.</i>		
Dinner	8:00 PM	Local Greek Tavern

Wednesday, May 25

Breakfast	6:30 AM	Main Restaurant
Session VI:	8:00 AM	Conference Center
Coffee break	10:05 AM	Conference Center
Session VII:	10:35 AM	Conference Center
Session VIII:	12:40 PM	Conference Center
Lunch	1:35 PM	Main Restaurant
Poster Session	7:00 PM	Conference Center
Dinner	8:00 PM	Knossos Royal Village

Thursday, May 26

Breakfast	6:30 AM	Main Restaurant
Session IX:	8:00 AM	Conference Center
Coffee break	10:05 AM	Conference Center
Session X:	10:35 AM	Conference Center
Session XI:	12:40 PM	Conference Center

Concluding remarks	1:40 PM	Conference Center
Lunch	1:45 PM	Conference Center
Gala Dinner	8:00 PM	Knossos Royal Village

Friday, May 27

Breakfast	6:30 AM	Main Restaurant
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Departure

PROGRAM

Sunday, May 22

5:00 - 8:00 PM *Open Registration*

8:00 PM *Welcome Reception*

Monday, May 23

8:00 AM **Welcome and Opening Remarks**
KB Hellman

8:10 AM **1 Keynote Address**
Tissue Engineering: The hope, the hype, and the future
RM Nerem

Session I. *Stem Cells*
Chair: AI Caplan

9:00 AM **2 Adult mesenchymal stem cell tissue engineering therapies**
AI Caplan

9:25 AM **3 Regenerative Medicine**
MH Hedrick

9:50 AM **4 Tissue regenerative potential of pluripotent stem cells from placental cord blood**
P Wernet, S Sensken, J Airey, T Trapp, M Möschen, R Sorg, J Fischer, A Knipper, J Gao, A Caplan, HW Möller, E Zanjani, and G Kögler

10:15 AM **5 Molecular regulation of blood vessel formation**
KK Hirschi

10:40 AM **6 Remodeling brain after neural injury with cell and pharmacological therapy**
M Chopp

11:05 AM Coffee Break & Poster Session

Session II *Cytokines and Growth Factors*
Chair: Y Tabata

11:35 AM **7 Tissue engineering based on drug delivery system of growth factor**
Y Tabata

- 12:00 Noon **8** *Injectable synthetic extracellular matrix for tissue engineering and repair biology*
GD Prestwich, XZ Shu, Y Liu, S Cai, JF Walsh, C Hughes, RR Orlandi, A Park, S Thibeault, and M Smith
- 12:25 PM **9** *Engineered tissues through biomaterial control of encapsulated cell signaling*
DM Yoon and JP Fisher
- 12:50 PM **10** *Polymethacrylate stars as synthetic gene delivery vehicles*
CS Patrickios, TK Georgiou, E Themistou, EN Yamasaki, M Vamvakaki, and LA Phylactou
- 1:15 PM **11** *Osteoinduction with COLLOSS, COLLOSS-E, and GFm*
WE Huffer, JJ Benedict, R. Rettenmaier, and A Briest
- 1:40 PM Lunch
- 8:00 PM Dinner at a Local Greek Tavern
The bus for the tavern will depart from the hotel at 7:30 PM

Tuesday, May 24

Session III *Scaffolds and Matrix Design*
Chair: CA van Blitterswijk

- 8:00 AM **12** *Design of scaffolds and matrices for bone & cartilage tissue engineering*
CA van Blitterswijk, F Barrere, L Moroni, T Woodfield, C Wilson, Y Hui-pin, and J de Bruijn
- 8:25 AM **13** *Processing and performance of multi-functional tissue engineering scaffolds*
RL Reis
- 8:50 AM **14** *Biodegradable networks prepared by gamma irradiation of high molecular weight poly(trimethylene carbonate)*
DW Grijpma, KAD Dijkhuis, AP Pêgo, and J Feijen
- 9:15 AM **15** *Synthesis of osteogenic hydrogels for the controlled differentiation of hMSCs*
CN Nuttelman and KS Anseth
- 9:40 AM **16** *Chemical grafting of Type-I collagen on poly (DL-lactide-co-glycolide) surface to enhance the attachment and proliferation of porcine esophageal smooth muscle cells*
Y Zhu¹, MB Chan-Park, and K Sin Chian
- 10:05 AM Coffee Break

Session IV *Bioreactor and Processing Technologies*

Chair: AG Mikos

- 10:35 AM **17** *Modulation of cell differentiation in bone tissue engineering constructs cultured in a bioreactor*
HL Holtorf, JA Jansen, and AG Mikos
- 11:00 AM **18** *Flow perfusion seeding in bone tissue engineering*
VI Sikavitsas, JF Alvarez-Barreto, JL Yankovich, and SM Linehan
- 11:25 AM **19** *Tissue engineering of implantable small-diameter blood vessels*
L Yao, DD Swartz, JA Russell, and ST Andreadis
- 11:50 AM **20** *Bioreactors for metabolic and secretory tissues*
A Sambanis
- 12:15 PM **21** *Monitoring tissue engineered substitutes by NMR techniques*
I Constantinidis

Session V : *Tissue Engineering Strategies I*

Chair: J van den Dolder

- 12:40 PM **22** *Tissue engineering of cartilage chondrogenic differentiation of human embryonic stem cells*
A Vats, RC Bielby, NS Tolley, AE Bishop, and JM Polak
- 12:45 PM **23** *Genetic modification of mesenchymal stem cells using optimized viral and non-viral methods*
M Stiehler, M Duch, H Li, T Mygind, C Modin, A Baatrup, FS Pedersen, M Ulrich-Vinther, M Lind, and C Bünger
- 12:50 PM **24** *Signal transduction pathways involved in ADSC osteogenic commitment & differentiation*
P Zuk
- 12:55 PM **25** *Human Mesenchymal stem cell home specifically to radiation injured tissues in a NOD/SCID mouse model*
A Semont, S François, M Mouiseddine, B Allenet, N Mathieu, J Frick, D Thierry, and A Chapel
- 1:00 PM **26** *Effect of seropharmacological traditional Chinese drug on cell adhesion and proliferation of three dimensional cultured mesenchymal stem cell on chitosan*
DF Chen, H Li, SH Du, JH Zhou, YW Li, RD Den, and SX Zhang
- 1:05 PM **27** *Cell-controlled-release of keratinocyte growth factor from fibrin gels accelerates wound healing in vitro and in vivo*
DJ Geer, DD Swartz, and ST Andreadis

- 1:10 PM **28** *Integrin signaling in retroviral gene transfer to epithelial stem cells*
BG Bajaj, R Singh, and ST Andreadis
- 1:15 PM **29** *Surface functions in tissue engineering scaffolds*
F Barrere, P Habibovic, L Moroni, T Woodfield, TE Mahmood, J Riesle, CA van Blitterswijk, and K de Groot
- 1:20 PM **30** *Degradable thiol-acrylate and thiolene systems: network control for tissue engineering*
CN Bowman, SK Reddy, AE Rydholm, and KS Anseth
- 1:25 PM **31** *Fabrication and characterization of pore size gradient chitosan scaffolds by a centrifugation method*
DK Song, IK Park, SH Oh, DS Lee-Yoon, EH Bae, and JH Lee
- 1:30 PM **32** *Novel Poly(amidoamines)-based hydrogels as scaffolds for tissue engineering*
F Chiellini, P Ferruti, S Bianchi, E Ranucci, and V Caruso
- 1:35 PM **33** *Calcium phosphate/PLGA microsphere composites: physical properties and degradation characteristics*
WJEM Habraken, JGC Wolke, AG Mikos, and JA Jansen
- 1:40 PM Lunch
- 2:30 PM Tour to Knossos Archaeological site & Archaeological Museum of Heraklion
The bus for the museum will depart from the hotel at 2:30 PM
- 8:00 PM Dinner at a local Greek Tavern

Wednesday, May 25

- Session VI** **Animal Models and Clinical Strategies**
Chair: JA Jansen
- 8:00 AM **34** *Synthetic bone grafts: morphogens and bone regeneration*
JA Jansen
- 8:25 AM **35** *From molecule to matrix: construction and evaluation of molecularly-defined bioscaffolds*
T van Kuppevelt
- 8:50 AM **36** *Cell-based bone tissue engineering: Challenges in the route from lab to patient*
WJA Dhert

- 9:15 AM **37** *Impaired cartilage wound healing and how it affects tissue repair*
 GJVM van Osch, PK Bos, YM Jenniskens, J van de Breevaart Bravenboer, J Degroot, and JAN Verhaar
- 9:40 AM **38** *Axial vascularization of processed bovine cancellous bone (TUTOBONE) matrix by a microsurgically created arteriovenous loop*
 E Polykandriotis, U Kneser, A Hess, A Arkudas, J Ohnolz,, J Kopp, A Bach, T Papadopoulos, M Stürzl, and RE Horch
- 10:05 AM Coffee Break
- Session VII** **Tissue Repair**
 Chair: A Goepferich
- 10:35 AM **39** *Tools for Tissue Repair*
 A Goepferich
- 11:00 AM **40** *Challenges for tissue engineering applications in tissue repair*
 R Bizios
- 11:25 AM **41** *Cartilage tissue repair*
 J Elisseff
- 11:50 AM **42** *A self-assembling process in articular cartilage tissue-engineering*
 JC Hu and KA Athanasiou
- 12:15 PM **43** *Tissue engineering osteochondral constructs in the shape of human articular condyle*
 A Alhadlaq and JJ Mao
- Session VIII** **Tissue Engineering Strategies II**
 Chair: JP Fisher
- 12:40 PM **44** *Quantification of keratinocyte migration in various culture conditions*
 Z Milosavljevic, M Pavlovic, and I Zelen
- 12:45 PM **45** *The characteristic properties of neopterin as bone marrow hematopoietic and stromal cell growth factor provide a biological basis for its use in the tissue engineered devices*
 E Zvetkova, D Fuchs, Y Savov, E Katzarova, I Tsenov, I Sainova, E Bichkidjieva, Y Gluhcheva, and I Ilieva
- 12:50 PM **46** *Biodegradable elastometric scaffolds for neocartilage formation*
 Y Kang, J Yang, and GA Ameer

- 12:55 PM **47** *Enhancement of meniscal repair using mesenchymal stem cells in a porcine model*
AQ Dutton, JPP Hui, EH Lee, and J Goh
- 1:00 PM **48** *Ectopic bone formation by rhBMP2 delivery from biodegradable microspheres embedded in an injectable PPF scaffold*
DHR Kempen, L Lu, MC Kruyt, CE Wilson, E Jabbari, LB Creemers, BL Currier, MJ Yaszemski, and WJA Dhert
- 1:05 PM **49** *Hydroxyapatite precipitation within 3-d silica matrix: preparation of a novel bone augmentation material*
MB Lyles and MJ Gregory
- 1:10 PM **50** *Osteoblast attachment and proliferation on hydroxyapatite surface-coated 3-D silica matrix*
MJ Gregory and MB Lyles
- 1:15 PM **51** *Tissue engineering of bone: osteogenic differentiation of human mesenchymal stem cells on 3d scaffolds*
M Schieker, H Guelkan, U Deisinger, R Detsch, W Mutschler, and G Ziegler
- 1:20 PM **52** *Large-scale myocardial repair on the beating heart using embryonic stem cell – derived cardiac myoblasts in a bioartificial matrix*
T Kofidis, I Chen, G Hoyt, and RC Robbins
- 1:25 PM **53** *Lentiviral vectors mediating cardiomyocyte-specific gene expression - a versatile tool to characterize artificial myocardial tissue*
I Gruh, S Wunderlich, K Schwanke, T Kofidis, and U Martin
- 1:30 PM **54** *Tissue engineering of mitral valve chordae*
Y Shi and I Vesely
- 1:35 PM Lunch
- 7:00 PM **Poster Session**
- 8:00 PM Dinner at Knossos Royal Village

Thursday, May 26

Session IX *Tissue Regeneration*
Chair: EB Hunziker

- 8:00 AM **55** *Articular cartilage repair: from the bench to the patient*
EB Hunziker

- 8:25 AM **56** *Cartilage tissue engineering: from rabbit to human*
I Martin
- 8:50 AM **57** *Regenerative medicine and tissue engineering for bone repair*
R Cancedda
- 9:15 AM **58** *The ocular lens: from regeneration to tissue engineering*
PA Tsonis
- 9:40 AM **59** *From atoms to systems: A “multidisciplinary” approach to today’s challenges in biosciences*
JD Lambris
- 10:05 AM Coffee Break and Poster Viewing
- Session X** *Science, Regulation and the Public*
Chair: KB Hellman
- 10:35 AM **60** *Tissue engineering and regeneration: the path from concept to clinic*
KB Hellman
- 11:00 AM **61** *Transplantation to regeneration: industrializing tissue repair through an evolving political and regulatory landscape*
D Smith
- 11:25 AM **62** *Cell-based therapies and their publics*
LF Hogle
- 11:50 AM **63** *European perspectives on TE regulation: towards a consensus?*
AJ Webster
- 12:15 PM **64** *The future of regenerative medicine from a south-east asian perspective*
DW Hutmacher
- Session XI** *Tissue Engineering Strategies III*
Chair: VI Sikavitsas
- 12:40 PM **65** *Could adult endothelial progenitor cells be substitute for mature endothelial cells in tissue engineering? A preliminary study in vitro*
SJ Zhang, H Zhang, JY Zhou, YJ Wei, ZK Liao, M Hou, and SS Hu
- 12:45 PM **66** *Under pulsed perfusion endothelialized small caliber collagen matrix grafts in a pig model – a pilot study*
JW Mall, H Neuss, and M Paulitschke

- 12:50 PM **67** *Comparative study of seeding and culture methods to vascular smooth muscle cells on biodegradable scaffold*
DI Kim and BS Kim
- 12:55 PM **68** *A composite tissue engineered aortic valve*
I Vesely and Y Shi
- 1:00 PM **69** *A new source of multipotent cells for various tissues*
GS Sohal, DP Dickinson, M Machnicki, MM Ali, and Z Zhang
- 1:05 PM **70** *In vivo evaluation of porous tantalum interbody fusion devices: correlation between MRI and histology in a porcine spinal fusion model*
XN Zou, HS Li, G Chen, M Bendtsen, HS Jørgensen, M Lind, and C Büniger
- 1:10 PM **71** *Matrigel-induced adipogenesis is host rather than graft derived in the murine tissue engineering chamber*
FBJL Stillaert, M Findlay, R Idrizi, J Palmer, S Cheang, A Messina, K Abberton, WA Morrison, EW Thompson and P Blondeel
- 1:15 PM **72** *Enrichment of osteogenic cell populations in rat bone marrow stroma*
J van den Dolder and JA Jansen
- 1:20 PM **73** *Reconstituted bovine bone protein lyophilisate enhances fixation of experimental allografted gap implants*
J Baas, A Lamberg, B Elmengaard, TB Jensen, and K Soballe
- 1:25 PM **74** *Induction of ectopic bone formation with equine bone protein extract. The potential of CMC gel as carrier*
H Li, M Springer, X Zou, A Briest, and C Bunger
- 1:30 PM **75** *Biglycan promotes BMP-2 induced osteoblast differentiation*
M Yamauchi, D Parisuthiman, and Y Mochida
- 1:35 PM **76** *Long-term outcome of sinus augmentation using deproteinized bone particles – An experimental study in rabbits*
H Xu, Y Shimizu, K Onodera, and K Ooya
- 1:40 PM **Concluding Remarks**
JA Jansen and AG Mikos
- 1:45 PM Lunch
- 8:00 PM **Gala Dinner** at Aldemar: Knossos Royal Village

Friday, May 27

7:30 AM Breakfast

Departure

POSTERS

- 77 *Long-term maintenance of ES cell-derived hepatocytes with hyaluronan sponge*
T Ochiya, Y Yamamoto, and T Teratani
- 78 *Construction of differentially expressed cDNA library of dermal multipotent stem cells stimulated by early-phase wound fluids*
Q Jifu, S Chunmeng, Z Huaien, H Li, J Depeng, and C Tianmin
- 79 *Effect of proteins pre-coating on bone marrow mesenchymal stem cells retention and proliferation on decellular bovine pericardium*
H Jiang, J Zhou, H Zhang, S Zhang, and S Hu
- 80 *Tissue engineering spinal cord using bone marrow stromal stem cells seeded polymeric scaffolds*
G Khang, SK Kim, KD Hong, SH Kim, MS Kim, IW Lee, and HB Lee
- 81 *Bone Tissue Engineering: limited orthotopic feasibility in comparison with ectopic implantation*
MC Kruyt, JD de Bruijn, and WJA Dhert
- 82 *Formation of bone-like apatite on biodegradable polymer scaffolds through an accelerated biomimetic process in the immersion condition or liquid-flowing condition*
Y Chen, AFT Mak, and M Wang
- 83 *The role of endothelial cells differentiated from mesenchymal stem cells in bone and cartilage tissue-engineering*
HY Chung, CA Song, JH Choi, JW Park, and BC Cho
- 84 *Interaction of chondrocyte with ligand-grafted biodegradable porous PLLA scaffolds*
HJ Jung, K-D Ahn, DJ Ahn, and DK Han
- 85 *Effects of RHBMP-2, 4 and 7 on bone formation in rat cavarial defects*
CS Kim, DK Han, UW Jung, SH Choi, and KS Cho
- 86 *Combination of long-term stable fibrin gels and poly (caprolactone)-based scaffolds for cartilage engineering*
D Eyrich, R Staudenmaier, M Wenzel, H Wiese, G Maier, A Göpferich, and T Blunk
- 87 *Heterotopic bone formation by autologous osteogenic cells and growth factors*
P Arpornmaeklong, P Pripatnanont, W Kittidamkerng, and KK Wuerzler

- 88 ***Injectable engineering heart tissue improve heart function in a rat infarct model***
PC Zhang, H Zhang, SS Hu, H Wang, YJ Wei, and J Zhou
- 89 ***Rotation cell-seeding and laminar flow bioreactor for vascular tissue engineering***
S Roy, P Silacci, and N Stergiopoulos
- 90 ***Enhancement of in vivo endothelialization of tissue-engineered vascular grafts by granulocyte colony-stimulating factor***
SW Cho, MS Park, JE Lim, CY Choi, DI Kim, and BS Kim
- 91 ***Differential cytokine responses of murine J774a.1 macrophages to Hydroxyapatite and stainless steel***
MH Lee, DW Han, HJ Kim, IS Lee, KY Lee, and JC Park
- 92 ***Light scattering “fingerprinting” for characterization of cellular processes***
J Allen, Y Liu, V Turzhitsky, V Backman, and GA Ameer
- 93 ***Ascorbic acid for in vitro hyalocyte culture – an important factor towards a cellular vitreous substitute***
F Sommer, K Kobuch, F Brandl, B Wild, B Weiser, V-P Gabel, T Blunk, and A Goeperich
- 94 ***Development of a cell-based vitreous substitute: proliferation, redifferentiation and expression of extracellular matrix of hyalocytes in vitro***
K Kobuch, B Wild, F Sommer, C Fischbach, A Göpferich, and VP Gabel
- 95 ***Effect of fibrin-reinforced collagen sponge on tissue regeneration and wound healing***
SJ Lee, DL Seol, WH Jang, MH Cho, and YI Yang
- 96 ***In-situ gel forming PLA-Heparin copolymers for tissue regeneration***
DH Go, JW Bae, KD Park, and SJ Lee
- 97 ***Photopolymerizable mixtures of PLGAs and dimethacrylated monomers***
B Baroli
- 98 ***Effects of beta-glucan on wound healing process***
HJ Son, DW Han, HS Baek, JK Kim, SJ Lee, and JC Park
- 99 ***A novel procedure for decellularization of porcine aorta***
J Zhou, Z Liao, G Matsumura, T Shin’oka, and S Hu
- 100 ***Osseogenic collagen complex as an effective graft alternative in experimental posterolateral lumbar spine arthrodesis***
S Boden, J-L Ugbo, C Oliver, and A Briest

- 101** *Effect of Cultivation method and pore size on Mesenchymal stem cell ingrowth and differentiation on hydroxyapatite scaffolds*
T Mygind, M Stiehler, A Baatrup, H Li, X Zou, A Flyvbjerg, and C Büniger
- 102** *Effects of fibrin-fibronectin sealing system as a carrier for RHBMP-4*
CS Kim, UW Jung, DK Han, SH Choi, and KS Cho
- 103** *control of nerve growth factor release from fibrin gel with heparin and thrombin concentration*
SH Bhang, JS Lim, SJ Song, YH Kim Kwon, CY Choi, and BS Kim
- 104** *Production of microtextured titanium substrata by photolithographic techniques for the in-vitro study of the effects of microgeometry on the osseo-integration process*
PA Kokkinos, P Kirby, C Shaw, R Wright, and D Deligianni
- 105** *Microstructure design of poly(dimethylsiloxane) substrate for tissue engineered intestine*
L Wang, M Dokmeci, G Barabino, and RL Carrier
- 106** *Enhancement of tendon allograft osteointegration using mesenchymal stem cells in a rabbit model of anterior cruciate ligament reconstruction*
YM Soon, BMH Afirzah, J Hui, J Goh, and Eh Lee
- 107** *Axial vascularization of processed bovine cancellous bone (TUTOBONE) matrix by a microsurgically created arteriovenous loop*
E Polykandriotis, U Kneser, A Hess, A Arkudas, J Ohnolz, J Kopp, A Bach, T Papadopoulos, M Stürzl, and RE Horch