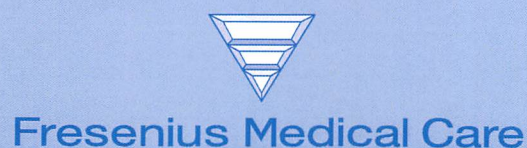


**5<sup>th</sup> World Congress of the  
INTERNATIONAL  
SOCIETY FOR APHERESIS**

*Wed May 4 - Sat May 7  
Rostock/Warnemuende  
Germany*



*Main Sponsors:*



**Kaneka**

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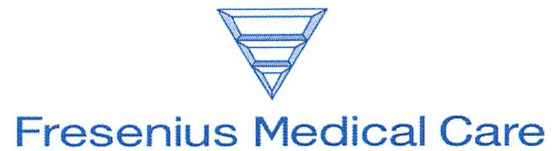
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**5<sup>th</sup> World Congress of the  
International Society for Apheresis**

May 4-7, 2005  
Rostock-Warnemuende, Germany

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## MINISTER PRESIDENT'S ADDRESS



Welcome to the Hanseatic City of Rostock! I am very pleased that you, the participants of the 5<sup>th</sup> World Congress of the International Society for Apheresis, came to the Federal State of Mecklenburg-Vorpommern. This shows that our Federal State is not only one of Germany's most favorite regions for tourism, but it is also an attractive location for economy, science and research. I am proud to have taken on the auspices of this 5<sup>th</sup> World Congress of the ISFA.

Biotechnology is the key sector for the 21<sup>st</sup> century. Mecklenburg-Vorpommern has recognized and seized the chances, which this sector offers. BioCon Valley<sup>®</sup> GmbH represents this chance, our trademark when it comes to life sciences, our biotechnology network. There is great potential in Mecklenburg-Vorpommern. Companies, especially in the field of apheresis, can refer to successful developments, e.g. the artificial liver. In the 80 biotechnology companies in Mecklenburg-Vorpommern, there are over 1 800 people employed. Additionally, there are 700 scientists at research institutions such as the University of Rostock and the University of Greifswald, as well as 10 000 students in the field of life sciences.

More and more investors and interested people from the Baltic Sea region and from the USA and Japan discover our Federal State. Mecklenburg-Vorpommern is on its way to becoming Germany's number 1 health region. With our scientific know-how, life science technologies, healthy foods, a very well developed healthcare infrastructure, modern wellness facilities, and tourism offers, we have something to offer you which in combination with our maritime climate and intact nature makes our region unique.

I cordially invite you to see for yourself all of these advantages! I wish you all great success at the 5<sup>th</sup> World Congress of the ISFA and in the future!

Best regards,

Dr. Harald Ringstorff

Minister President  
Federal State of Mecklenburg-Vorpommern  
Germany

## **WORLD APHERESIS ASSOCIATION PRESIDENT'S WELCOME ADDRESS**

I would like to take this opportunity to extend a warm welcome to all attendees of the 5<sup>th</sup> World Congress of the International Society for Apheresis, May 4-7, 2005 in Rostock-Warnemuende, Germany at which the officers and councillors of the World Apheresis Association (WAA) will host its Board Meeting.

Every two years, the International Congress organized under the auspices of the WAA is one of the major events in the life of the Association. The Congress format varies according to the host country but the main objective remains the development of hemopheresis in all its aspects. Research, basic and clinical, in addition to technical aspects, registries, economic perspectives, and continuing education for physicians and nurses are among the numerous topics addressed during the meetings.

The next WAA Congress is ecumenical, and will be organized in Kyoto, Japan by our colleagues of the Japanese Society for Apheresis (JSFA) and the International Society for Apheresis (ISFA). This joint effort to organize an international congress is a guarantee for success. Without any doubt, all the national apheresis society members of the WAA and others will present their best scientific findings in Kyoto that will contribute to the progress of hemopheresis. Our biennial Congress also represents a forum for meeting clinicians and researchers from all over the world, to exchange ideas and also to socialize. Kyoto is a marvellous city and certainly one of the best places in the world to ally science and history.

I hope to meet you in 2005 in the wonderful city of Rostock and in the name of the WAA, I invite you to join us and participate in the 2007 Joint Congress in Kyoto.

Best regards,  
Loïc Guillevin, PhD

President, World Apheresis Association  
Service de Medecine Interne, Hopital Avicenne  
Universite Paris-Nord, 125 Rue de Stalingrad  
93000, Bobigny, France

## INTERNATIONAL SOCIETY FOR APHERESIS PRESIDENTIAL ADDRESS

On behalf of the Board of Trustees and our worldwide membership, it is an honor and pleasure to cordially welcome you to the 5th World Congress of the International Society for Apheresis (ISFA) in Rostock, Germany. Under the Congress Presidency of Professor Peter Schuff-Werner, the Congress organizers have made every effort to prepare a most interesting program with state of the art lectures from which medical doctors, scientists, members of industry and allied health professionals will benefit for their daily work.

This is the second ISFA congress to be held in Germany and I am sure it will prove to be a worthy successor to previous ISFA congresses, which were held at Kyoto, Japan in 1997 (Congress President Professor Akira Yamamoto), Saarbrücken, Germany in 1999 (Congress President Dr. Rolf Bambauer), Taipei, Taiwan in 2001 (Congress President Dr. Hou-Chang Chiu) and Nashville, Tennessee, USA in 2003 (Congress President Professor Ghodrat Siami).

Although we are a young society with an age of 10 years at the time of the Congress, ISFA has gained an excellent standing, which was further improved by the alliance with the Japanese Society for Apheresis and the Japanese Society for Dialysis Therapy. Thus, its official journal, *Therapeutic Apheresis and Dialysis* was recently granted an excellent impact factor.

I wish you an agreeable stay in the lovely surroundings of Rostock-Warnemünde with fruitful discussions and much new information to take home.

I look forward to seeing and welcoming you in Rostock.

Best regards,

Thomas Bosch, MD, PhD

President, 2003-2005  
International Society for Apheresis  
Oberarzt am Schwerpunkt Nephrologie  
Medizinische Klinik und Poliklinik I  
Klinikum der Universität München-Grosshadern  
Marchioninistrasse 15, D-81366 Munich, Germany

## CONGRESS PRESIDENT'S ADDRESS



As medical director of the University Hospital Rostock, I am proud and thankful that the ISFA board decided to give the responsibility to organize the 5<sup>th</sup> World Congress of the International Society for Apheresis to my colleagues and me.

This year the congress will be held in Rostock-Warnemuende, located at the beautiful southern coastline of the Baltic Sea, only a two hours drive from Hamburg or Berlin.

The Medical Faculty of the Rostock University was founded in 1419 and therefore has a long standing tradition in medical teaching and research, always keeping in mind the University's motto "traditio et innovatio".

Excellent research in the field of biomaterials resulted in the development of medical devices, supporting or replacing organ functions in critically ill patients, e.g. the Molecular Adsorbent Recycling System (MARS) in patients with liver failure.

The emerging field of therapeutic apheresis is intertwined with the name of Dr. Horst Klinkmann, the former director of the University Hospital, professor of nephrology and the current Honorary Congress President, celebrating his 70<sup>th</sup> birthday during the congress.

We strongly hope that we have organized a highly scientific and up-to-date program for you. On behalf of Dr. Wolfgang Ramlow, representing the organizing committee, I would be happy to welcome you in Rostock-Warnemuende in May 2005.

Sincerely yours,

Peter Schuff-Werner, MD, PhD

Congress President

5th World Congress of the International Society for Apheresis

Rostock-Warnemuende, Germany

May 2005

Institute of Clinical Chemistry and Laboratory Medicine

Ernst-Heydemann-Str. 6

D- 18057 Rostock, Germany



## CONGRESS PROGRAM

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### Wednesday, May 4<sup>th</sup>

8:00 - 18:00

Congress Registration

**13:00 - 18:00**

**Working Group Meetings / Society Meetings**

19:00 - 22:00

Welcome Reception

### Thursday, May 5<sup>th</sup>

8:00 - 16:00

Congress Registration

9:00 - 10:30

#### **Welcome Session**

Chair: Thomas Bosch (Germany), Peter Schuff-Werner (Germany), Horst Klinkmann (Germany)

#### **Welcome Addresses**

Presidential Address ISFA 2005 Congress President

Welcome Address Minister President Dr. Harald Ringstorff

Welcome Address of the University of Rostock

Welcome Address of the Medical Faculty, University of Rostock

Presidential Address of the International Society for Apheresis (ISFA)

Presidential Address of the World Apheresis Association (WAA)

#### **State of the Art Lecture**

Thomas Bosch (Germany): Therapeutic Apheresis

10:30 - 11:00

Break

11:00 - 12:30

#### **Plenary Session**

Chair: **Thomas Bosch (Germany), Peter Schuff-Werner (Germany), Horst Klinkmann (Germany)**

Speakers:

Francois Schooneman (France): Donor pheresis

Noritoshi Shibuya (Japan): New approaches regulating cellular immunity

12:30 - 14:00

Poster Lunch

14:00 - 15:35

#### **Cardiovascular Diseases I**

Chair: **Alexander Staudt (Germany), Christiane Keller (Germany)**

Alexander Staudt (Germany): Immune apheresis in dilative cardiomyopathy

Toshiya Okahisa (USA): Cryofiltration and ventricular assistance in the treatment of dilative cardiomyopathy

Nobuhiko Koga (Japan): Overview on LDL-apheresis in cardiovascular diseases

Thomas Bosch (Germany): Long-term DALI-LDL-apheresis: Results of a 5-year clinical multicenter follow-up covering 12291 sessions

Jürgen Rech (Germany): Repetitive cyclic LDL-apheresis by the new Lipocollect 2000 adsorber in combination with the ADASORB device

15:35 - 16:00

Break

16:00 - 17:30

#### **Cardiovascular Diseases II**

Chair: **Thomas Bosch (Germany), Nobuhiko Koga (Japan)**

Shuzo Kobayashi (Japan): Effectiveness of LDL-apheresis on peripheral arterial occlusive disease and its possible mechanisms

Christiane Keller (Germany): Apheresis in coronary heart disease with elevated Lp(a) levels

Peter Schuff-Werner (Germany): Clinical experiences with long-term LDL-Apheresis using heparin-induced extracorporeal LDL-precipitation (HELP) in patients with homo- and heterozygous familial hypercholesterolemia: evaluation of registry data including 628 patients

Gustav Steinhoff (Germany): Stem cell transplantation in cardiac diseases

18:00 - 20:00

**ISFA Board Meeting**

20:30 - 22:00

#### **Night Talk: Mechanisms of Immune Apheresis**

Chair: **Wolfgang Ramlow (Germany), Peter Kern (Germany)**

Wolfgang Ramlow (Germany): Introduction

Horst-Dieter Lemke (Germany): The role of contact activation in apheresis therapy

Peter Kern (Germany): Suggested mechanisms of protein A immunoabsorption (Prosorba®) in rheumatoid arthritis

Alexander Staudt (Germany): Suggested mechanisms of double column Ig-apheresis in idiopathic dilated cardiomyopathy

Jörg Emmrich (Germany): Suggested mechanisms of adsorptive cytappheresis in inflammatory bowel diseases

Friday, May 6<sup>th</sup>

8:00 - 16:00

Congress Registration

8:30 - 10:00

### Miscellaneous I

**Chair: Rafael Ponikvar (Slovenia), Aleksandar Sikole (Macedonia)**

Peter Ahrenholz (Germany): In vitro and In vivo evaluation of Adacolumn® cytapheresis in healthy subjects

Igor Rovdo (Belarus): Biospecific hemosorbent for selective removal IgE from the blood

George Visvardis (Greece): Immunoabsorption in the treatment of immune-related diseases in a nephrology department

Gerhard Puetz (Germany): Elimination of liposomal chemotherapeutics by membrane double filtration

Rakesh Srivastava (India): Double Filtration plasmapheresis in Guillain Barre Syndrome - an Indian experience

Viktoria Weber (Austria): Development of specific microadsorbents for pathyophysiological mediators of sepsis and multi-organ failure

Jens Hartmann (Austria): A novel device for highly sensitive leakage detection for microparticle suspension based blood purification systems

### Registry and Regulatory Issues

**Chair: Rut Norda (Sweden), Paul Malchesky (USA)**

Uwe Wallstab (Germany): Regulatory requirements for medical devices in the European Union – aspect of requirements for apheresis systems

Gerda Leitner (Austria): Current status of preparative granulocyte apheresis: donor selection, indications and techniques

Bernd Stegmayr (Sweden): The role of an international apheresis registry for the establishment of apheresis therapy

Rut Norda (Sweden): Plasma exchange: current practice in Sweden and the role of substitution fluids in patterns of adverse effects

Reinhard Klingel (Germany): Rheopheresis for dry age-related macular degeneration (AMD) - reference controlled RheoNet-registry analysis of safety and efficacy

10:00 - 10:30

Break

10:30 - 12:00

### Transplantation and Critical Care I

**Chair: Andre Kaplan (USA), Kurt Derfler (Austria)**

Georg Boehmig (Austria): Peri-transplant immunoabsorption: a strategy enabling transplantation in highly sensitized crossmatch-positive cadaveric kidney allograft recipients

Rafael Ponikvar (Slovenia): Apheresis therapy in recurrent FSGS in kidney transplant recipients

Kurt Derfler (Austria): Immunoabsorption in critical hematologic disease

Heidrun Ullrich (Germany): Extracorporeal photochemotherapy in patients suffering from chronic graft-versus-host-disease (GVHD)

Andre Kaplan (USA): Apheresis therapy in hemolytic uremic syndrome (HUS) and thrombotic thrombocytopenic purpura (TTP)

### Inflammatory Bowel Diseases

**Chair: Jörg Emmrich (Germany), Koji Sawada (Japan)**

Walter Reinisch (Austria): Role of apheresis in therapy of inflammatory bowel diseases

Wolfgang Kruis (Germany): European experiences with granulocyte and monocyte / macrophage cytapheresis

Koji Sawada (Japan): Japanese experience with leukocytapheresis

Gerda Leitner (Austria): Treatment of ulcerative colitis with granulocyte and monocyte / macrophage cytapheresis

Kai Rieckeheer (Germany): Leukocytapheresis (LCAP) for chronic active ulcerative colitis - final results of a pilot trial

12:00 - 14:00

Poster Lunch / ISFA General Assembly

14:00 – 15:30

## Transplantation and Critical Care II Rheumatic Diseases

**Chair: Jan Stange (Germany), Motoki Yonekawa (Japan)**

Herwig Holzer (Austria): Clinical experience with different extracorporeal liver support systems

Jörg Schefold (Germany): Immunoabsorption of LPS, IL-6 and C5a reverses immunoparalysis and improves organ function in patients with severe sepsis and septic shock

Jens Altrichter (Germany): Extracorporeal treatment of sepsis by a phagocyte bioreactor system

Yoshihiro Endo (Japan): Cytokine removal with a new adsorbent for the treatment of hypercytokinemia

**Chair: Loic Guillevin (France), Ghodrat Siami (USA)**

Helmut Sorensen (Germany): The role of immune apheresis in the treatment of inflammatory rheumatic diseases

Loic Guillevin (France): Apheresis therapy in vasculitis – an overview

Claudio Stefanutti (Italy): Prospective of immunoabsorption apheresis (Selesorb®) in the treatment of chronic manifestations of autoimmune diseases

Heinrich Prophet (Germany): Evaluation of 19 patients with drug resistant rheumatoid arthritis treated with double column immunoabsorption therapy

Rakesh Srivastava (India): A Decade of treatment and rehabilitation in cases of rheumatoid arthritis by double filtration plasmapheresis - an Indian multicenter experience

15:30 - 16:00

Break

16:00 - 17:30

## Hemorheopheresis

**Chair: Patrick Moriarty (USA), Sergei Pokrovsky (Russia)**

Patrick Moriarty (USA): Atherosclerosis and rheology: which comes first the chicken or the egg?

Klaus-Peter Mellwig (Germany): Coronary blood flow, coronary resistance and clinical improvement during single LDL-apheresis treatment

Peter Schuff-Werner (Germany): Does LDL contribute to viscosity?

Reinhard Klingel (Germany): Rheopheresis in patients with critical limb ischemia (CLI) - results of an open label prospective pilot trial

Jun Xue (China): Treatment of cerebral ischemia by LDL-/fibrinogen-apheresis (HELP)

## Miscellaneous II (e.g. Neurology)

**Chair: Hou-Chang Chiu (Taiwan), Heidrun Ullrich (Germany)**

Hou-Chang Chiu (Taiwan): The change of immunological parameters after plasmapheresis in patients with myasthenia gravis

Dusit Lumlertgul (Thailand): Apheresis activities in Thailand

Iakov Shimanovich (Germany): Immunoabsorption - a novel and effective treatment of pemphigus, a severe autoimmune blistering skin disease

John Klassen (Canada): Plasmapheresis for porphyria cutanea tarda

Heiko Hickstein (Germany): Double column immunoabsorption in patients suffering from endocrine orbitopathy

Ilknur Kozanoğlu (Turkey): Activation-Dependent changes on platelet surface after automated red cell-exchange procedure in patients with sickle cell anemia

Heidrun Ullrich (Germany): Erythrocyte apheresis in patients suffering from severe sickle cell disease

19:00 - 23:00

Social Event

## Saturday, May 7<sup>th</sup>

8:00 - 10:30

Congress Registration

8:30 - 10:15

### Overviews: Workshop I

dedicated to Prof. Dr. Dr. h.c. (mult.) Horst Klinkmann's 70th Birthday

**Chair: Peter Ivanovich (USA), Hajime Kimura (Japan)**

Peter Ivanovich (USA): Laudatio H. Klinkmann

Joerg Vienken (Germany): Adsorber bead technology for the removal of toxins in liver failure

Ulrich Baurmeister (Germany): Adsorption technologies: Next stages?

Tadao Akizawa (Japan): Direct hemoperfusion with  $\beta$ 2-microglobulin adsorbent for dialysis related amyloidosis

Ghodrat Siami (USA): Cryofiltration techniques and indications

Dieter Falkenhagen (Austria): Modern technologies for pathogen removal in sepsis and septic shock

10:15 - 10:45

Break

10:45 - 12:30

### Overviews: Workshop II

dedicated to Prof. Dr. Dr. h.c. (mult.) Horst Klinkmann's 70th Birthday

**Chair: Dieter Falkenhagen (Austria), Tadao Akizawa (Japan)**

Motoki Yonekawa (Japan): Cytokine and endotoxin removal in critically ill patients

Jan Stange (Germany): Albumin dialysis in comparison to alternative liver support therapies

Paul Malchesky (USA): Plasma solute removal in critical care

Yukihiko Nosé (USA): Apheresis therapy in heart disease

Sergej Pokrovsky (Russia): Specific adsorption technologies. What was done in Russia?

Deling Kong (China): Stem cells and gene therapy in the treatment of cardiovascular diseases - a Chinese experience

12:30 - 12:45

Closing Ceremony

## EDUCATIONAL PROGRAM

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Parallel to the congress an Educational Program will be held (in German only).

Ein Weiterbildungskurs für Ärzte, Pflegepersonal und Techniker

### **Therapeutische Apherese - eine aktuelle Standortbestimmung**

( Zertifiziert mit 11 Fortbildungspunkten durch die Ärztekammer MV )

#### **Donnerstag, 5. Mai 2005**

- |               |  |
|---------------|--|
| 12:30 - 14:00 | Poster Lunch   |
| 14:00 - 15:30 | <b>Grundlagen der Apheresetherapie</b><br><b>Moderation: Roland E. Winkler (Rostock) und Jörg Vienken (Bad Homburg)</b><br><br><u>Wolfgang Ramlow</u> (Rostock):<br>Einführung<br><u>Jörg Vienken</u> (Bad Homburg):<br>Filtration oder Adsorption - das ist hier die Frage<br><u>Oliver Schuster</u> (Wuppertal):<br>Charakteristik von Membranen für die Plasmapherese und Sekundärfiltration<br><u>Uwe H. Wallstab</u> (Overath):<br>Systematik der Apherese-Technologien<br><u>Hauke Tachezy</u> (Hamburg):<br>Gefäßzugang für die Apheresetherapie                                  |
| 15:30 - 16:00 | Pause  |
| 16:00 - 17:30 | <b>Organisation und Abrechnung der Apheresetherapie</b><br><b>Moderation: Hauke Tachezy (Hamburg) und Uwe H. Wallstab (Overath)</b><br><br><u>Thomas Zimmermann</u> (Rostock):<br>Korrekte Vorgehensweise bei unerwünschten Ereignissen im Rahmen von extrakorporalen Behandlungen<br><u>Jochen Seidel</u> (Schwerin):<br>Grundlagen und Kriterien der Wirtschaftlichkeitsprüfung<br><u>Andreas Kribben</u> (Essen):<br>Modalitäten der Abrechnung von Apheresetherapien im Krankenhaus<br><u>Bernd Stegmayr</u> (Umea, Schweden):<br>Vorstellung des Internationalen Apherese-Registers |
| 17:45 - 20:00 | ISFA Board Meeting   |

## Freitag, 6. Mai 2005

- 8:30 - 10:00      **Apheresetherapie in der Intensivmedizin**  
**Moderation: Petra Reinke (Berlin ) und Herwig Holzer (Graz, Österreich)**
- Dieter Falkenhagen (Krems, Österreich):  
Technologien zur Mediatoren und Toxin-Elimination bei Sepsis und Leberversagen  
Petra Reinke (Berlin):  
Apheresetherapie bei Sepsis und septischem Schock  
Jan Stange (Rostock):  
Apheresetherapie bei Leberversagen
- 10:00 - 10:30      Pause
- 10:30 - 12:00      **LDL-Apherese und Rheologie**  
**Moderation: Bernd Stegmayr (Umea, Schweden) und Hans-Ulrich Klör (Giessen)**
- Hans-Ulrich Klör (Giessen):  
Stellenwert der LDL-Apherese im Rahmen der maximalen lipidsenkenden Therapie  
Thomas Bosch (München):  
LDL-Apherese - eine aktuelle Standortbestimmung  
Reinhard Klingel (Köln):  
Rheologisch wirksame Apheresetherapie - eine aktuelle Standortbestimmung
- 12:00 - 14:00      Poster Lunch / ISFA General Assembly
- 14:00 - 15:30      **Immunapherese I**  
**Moderation: Kurt Derfler (Wien, Österreich) und Jörg Emmrich (Rostock)**
- Jörg Emmrich (Rostock):  
Adsorptive Zytapherese bei chronisch entzündlichen Darmerkrankungen  
Wolfgang Köhler (Wermsdorf):  
Apheresetherapie bei neurologischen Erkrankungen  
Kurt Derfler (Wien, Österreich):  
Apheresetherapie bei renalen Erkrankungen
- 15:30 - 16:00      Pause
- 16:00 - 17:30      **Immunapherese II**  
**Moderation: Helmut Sörensen (Berlin) und Wolfgang Ramlow (Rostock)**
- Johannes Müller (Berlin):  
Immunapherese bei dilatativer Cardiomyopathie  
Wolfgang Ramlow (Rostock):  
Immunapherese bei rheumatologischen Erkrankungen  
Heinrich Prophet (Rostock):  
Immunapherese bei seltenen Autoimmunerkrankungen
- 19:00 - 23:00      **Social Event**

## RHEUMATOLOGISCHES SYMPOSIUM

---

Parallel to the congress a Rheumatologisches Symposium will be held (in German only).

**„Bewährtes und Neues in der Therapie entzündlich - rheumatischer Erkrankungen“**

### Saturday, May 7th

09:00 - 09:30	<b>Prof. Dr. Keysser</b> Konventionelle Basistherapie
09:30 - 09:45	Diskussion
09:45 - 10:15	<b>Prof. Dr. Keysser</b> Therapie mit Anti-Zytokinen
10:15 - 10:30	Diskussion
10:30 - 11:00	Kaffeepause
11:00 - 11:30	<b>Prof. Dr. Brune</b> Therapie mit nichtsteroidalen Antirheumatika
11:30 - 11:45	Diskussion
11:45 - 12:15	<b>Prof. Dr. Buttgereit</b> Therapie mit Corticosteroiden
12:15 - 12:30	Diskussion
12:30 - 13:00	Abschließende Diskussion Schlusswort  anschließend Imbiss