

# CONFERENCE PROGRAM

**Monday 14 October, 1996**

07.30

**Registration Desk Open**

08.45 – 9.15

**Welcoming remarks and conference overview**

**"Human Antibodies. One Insider's View"**

Mark C. Glassy

*(Novopharm Biotech Inc., USA)*

## **SESSION 1 CANCER**

Moderators: M C Glassy, J Xiang

09.15 – 09.45

**Anti-tumor immunity derived from a genetically engineered fusion protein possessing the mouse/human chimeric antibody molecule and the cytokine moiety**

J. Xiang, Y. Qi, T. Moyana

*(Saskatoon Cancer Center, Canada)*

09.45 – 10.05

**Cloning and expression of a tumour reactive human IgG4**

M. Nasoff, M. Gu, S. Mukerjee, C. Gaskins, M. McKnight, M. Glassy

*(Novopharm Biotech Inc., San Diego, USA)*

10.05 – 10.25

**A human anti-idiotypic monoclonal antibody against anti-GD2 chimeric antibody ch14.18 from a patient treated for neuroblastoma**

M.M. Uttenreuther-Fischer, A. Yu, G. Gaedicke, P. Fischer

*(University Children's Hospital Charite, Berlin, Germany)*

10.25 – 10.45

**A novel monoclonal antibody with immune-stimulatory and anti-tumor properties**

B. Hardy, R. Kovjazin, A. Raiter, N. Ganor, A. Novogrodsky

*(The Felsenstein Medical Research Center, Israel)*

10.45 – 11.15

**COFFEE**

11.15 – 11.35

**Mono- and bispecific 'single-chain' antibody fragments for use in cancer therapy**

S. Thirion, K. Motmans, J. Raus, C. Vandevyver

*(Dr L. Willems-Institut, Diepenbeek, Belgium)*

11.35 – 11.55

**Human anti-PEM (polymorphic epithelial mucin) antibodies production by specific B-lymphocytes isolated from tumor draining lymph-nodes**

C. Petrarca, A. Rughetti, H. Rahimi, P.L. Benedetti Panici, G. Scambia, L. Frati, M. Nuti

*(University of Rome 'La Sapienza', Italy)*

11.55 – 12.15

**Receptor analysis of the idiotype antibodies of the MALT lymphomas by hybridomas**

W. Haedicke, H.K. Muller-Hermelink, A. Greiner

*(University of Wurzburg, Germany)*

12.15 – 12.35

**Antihuman-TAA-antibodies can isolate p53 antigen from the serum of cancer patients and can be used as a new tool for colon cancer diagnosis**

I. Zusman, R. Zusman, D. Korol, B. Sandler, P. Smirnoff, D. Bass, A. Or, A. Shani, E. Adalevich,

M. Huszar

*(The Hebrew University of Jerusalem, Israel)*

12.35 – 13.30

**LUNCH**

## **SESSION 2 INFECTIOUS DISEASES**

Moderators: Z. Jonak, TBA

13.30 – 13.50

**Human hyperimmune IgG from immunized plasma donor for treatment and prevention of infection with multi-drug resistant *Staphylococcus aureus***

A. Fattom, L. Basham, S. Shepherd, J. Sarwar, A. Ortiz, L. Fries, R. Naso

*(NABI, Rockville, USA)*

13.50 – 14.10

**Monoclonal and single-chain antibodies against different dioxygenases and cell surface antigens: immunological tools for the structural and functional characterization of bacterial isolates**

C. Beckmann, M. Tesar, K.N. Timmis

*(GBF Braunschweig, Germany)*

14.10 – 14.30

**Generation of biologically active anti *Cryptococcus neoformans* isotype switch variant monoclonal antibodies**

G. Spira, S. Mazar, S. Mukjerjee, A. Casadevall, M. Paizi

*(Rappaport Institute, Haifa, Israel)*

14.30 – 14.50

**Human monoclonal antibodies to viral peptides**

E.V. Siderova, T. K. Borisova, L. V. Lyakisheva

*(Institute for Viral Preparations, Moscow, Russia)*

- 14.50 – 15.10 **Neutralization of RNA-phage infectivity by anti-fr monoclonal antibody and CDR-peptides, that determine its specificity**  
A. Tsimanis, M. Sallberg, Ju. Steinberg, U. Lazdina, K. Kilchevska, A. Dishler, V. Ose  
(University of Latvia, Latvia)
- 15.10 – 15.40 **TEA**
- 15.40 – 16.00 **Generation of human monoclonal antibodies against respiratory syncytia virus**  
Z. L. Jonak, K. Deen, S. Trulli, E. Henri, K.B. Tan  
(SmithKline Beecham Pharmaceuticals, King of Prussia, USA)
- 16.00 – 16.20 **Production of monoclonal antibody against *Neisseria meningitidis* that recognize specific and cross reactive antigens**  
E.N. De Gaspari, L.M.C. De Oliveira  
(Adolfo Lutz Institute, Sao Paulo, Brazil)
- 16.20 – 16.40 **Evidence for an antigen driven selection process in human antibodies against acetylcholine receptor**  
A. Cardona, O. Pritsch, G. Dumas, J.-F. Bach, G. Dighiero  
(Institut Pasteur, Paris, France)
- 16.40 – 17.00 **Production of anti-HBx/CD3 BSAB secreting hybrid hybridomas and application of the BSAB retargeting effector cells for lysis of human HCC xenografts in nude mice**  
Y. Liao, Z.-Y. Tang, K.-D. Liu, S.L. Ye, J. Li, Z. Huang, D.B. Wang, D.M. Segal  
(Shanghai Medical University, Peoples Republic of China)
- 17.00 – 17.15 **DISCUSSION**
- Evening **WELCOME RECEPTION**

---

## Tuesday 15 October, 1996

---

### SESSION 3 AUTOIMMUNITY

Moderators: Y. Shoenfeld, TBA

- 08.30 – 09.15 **Plenary Lecture: "Lessons Learned from the Human Autoimmune Response"**  
Y. Shoenfeld  
(Sheba Medical Center, Israel)
- 09.15 – 09.35 **Molecular characterization of anti-idiotypic antibodies derived by phage display from a patient with autoimmune thrombocytopenic purpura**  
P. Fischer, M.M. Uttenreuther-Fischer, N. Jendreyko, G. Gaedicke  
(University Children's Hospital Charite, Berlin, Germany)
- 09.35 – 09.55 **Construction of a single-chain antibody fragment library for human thyroglobulin**  
M. Biard-Piechaczyk, I. Navarro-Teulon, S. Peraldi-Roux, M. Bouanani, B. Pau  
(CNRS UMR 9921, Montpellier, France)
- 09.55 – 10.15 **Incidence of 'anti-mouse' antibodies in thrombocytopenic patients with autoimmune disorders**  
G. Clofent-Sanchez, S. Lucas, J. Laroche-Traineau, P. Rispal, J.-L. Pellegrin, P. Nurden, A. Nurden  
(CNRS UMR 5533, Bordeaux, France)
- 10.15 – 10.35 **Autoimmune phenomena in patients with tropical spastic paraparesis**  
M.F. Smickle, E.N. Barton, O.St.C. Morgan, J. Luseko, W.A. Blattner  
(University of West Indies, Kingston, Jamaica)
- 10.35 – 11.00 **COFFEE**
- 11.00 – 11.20 **Characterization of the antigen binding domain of a natural human anti-F(ab')<sub>2</sub> auto-antibody**  
M. Welschhof, M. Little, S. Kipriyanov, D. Stanescu, M. Zewe, C. Hain, S. Dubel, F. Breitling, G. Opelz, P. Terness  
(University of Heidelberg, Germany)
- 11.20 – 11.40 **A sulfatide-reactive monoclonal antibody, derived from a patient with multiple sclerosis, selectively binds to myelin structures in ultrathin sections of rat brain, as revealed by cryo-immunoelectron microscopy**  
E. Kirschning, G. Rutter, C. Huckhagel, I. Ellhof, H. Hohenberg  
(Heinrich-Pette-Institut, Hamburg, Germany)
- 11.40 – 12.00 **Autoantibody dominance pattern following idiotypic manipulation of naive mice by immunization with different epitope specific anti-U1RNP antibodies**  
Y. Shoenfeld, B. Gilburd, J. George, A. Afec, M. Damianovitch, A. Doria, S. Todesco  
(Sheba Medical Center, Israel)
- 12.00 – 13.30 **LUNCH**
- 13.30 – 13.50 **Recombinant anti-rhesus antibody**  
L. Edelman, C. Margaritte, E. Monchatre, D. Blanchard, F.-X. Deramoudt, F. Morin, G. Dumas, M. Kaczorek  
(Institut Pasteur, Paris, France)

- 13.50 – 14.10 **Paratopic specificity of two human monoclonal immunoglobulins M expressing Y7 idiotype**  
Lj. Dimitrijevic, M. Radulovic, B. Ciric, A. Inic, S. Apostolski  
(Immunology Research Center, Beograd, Yugoslavia)
- 14.10 – 14.30 **The effects of recombinant interleukin 2 and T-cell subsets on peripheral B cells in patients from Myasthenia Gravis**  
J. Zhang, W. Zhou, H. Wang  
(The John P. Robarts Research Institute, Ontario, Canada)
- 14.30 – 14.50 **Anti-gp210 antibodies in sera of patients with primary biliary cirrhosis. Identification of a 64kD fragment of gp210 as a major epitope**  
J.W. Gadek, H. Hohenauer, E. Hitchman, E. Penner  
(Institute of Tumourbiology, Vienna, Austria)
- 14.50 – 15.10 **Effect of *Tripterygium wilfordii* hook on antidsDNA secretion of PBMC from systemic lups erythematosus patients**  
O. Wanzhang, X. Jinhua  
(Shanghai Medical University, Peoples Republic of China)
- 15.10 – 15.40 **TEA**
- 15.40 – 16.00 **Antibodies to human heat shock protein in patients with schizophrenia and major depression**  
P. Sirota, D. Mazeh, A. Novogrotsky  
(Abarbanel Mental Health Center, Bat Yan, Israel)
- 16.00 – 16.20 **Autoantibodies to tyrosinase: Crossroad between vitiligo and melanoma**  
O. Merimsky, Y. Shoenfeld, E. Baharavi, R. Tsigelman, P. Fishman  
(MOR Research Applications Ltd, Givat Shmeul, Israel)
- 16.20 – 16.40 **The development of anti-complement antibodies to treat autoimmune diseases**  
S. Squinto, Y. Wang, S. Rollins, E. Mueller, M. Evans, S. Nye, T. Thomas, J. Wilkins, L. Matis  
(Alexion Pharmaceuticals Inc, New Haven, USA)
- Evening **CONFERENCE DINNER**

---

## Wednesday 16 October, 1996

---

### SESSION 4 MOLECULAR BIOLOGY

Moderators: A. Nissim, M.C. Glassy

- 08.40 – 09.00 **Efficient utilization of available sequence space: generation of human antibodies for medicine through consensus human antibody library (HuCAL) and trinucleotide-based mutagenesis method (TRIM)**  
L. Ge, A. Knappik, P. Pack, V. Ilag, B. Virnekas, G. Wellnhofer  
(MORPHOSYS GmbH, Munich, Germany)
- 09.00 – 9.20 **Development and usage of semisynthetic SCFV repertoires displayed on phage**  
A. Nissim, D. Neri, G. Winter  
(The Chaim Sheba Medical Center, Israel)
- 09.20 – 09.40 **Human antibodies isolated from a large non-immunised phage repertoire**  
A.J. Roberts, T.J. Vaughan, A.J. Williams, J.K. Osbourn, J.C. Earnshaw, J. Thompson, K.S. Johnson  
(Cambridge Antibody Technology Ltd, UK)
- 09.40 – 10.00 **A rationalised mutagenesis and selection strategy to generate subnanomolar affinity human single chain FVS specific for CEA**  
A. Field, J. Osbourn, E. Derbyshire, J. Wilton, J. Earnshaw, D. Allen, J. McCafferty  
(Cambridge Antibody Technology Ltd, UK)
- 10.00 – 10.20 **Multicombinatorial libraries: new vectors and construction of a very large human naive antibody repertoire**  
R. Sodoyer, F. Geoffroy, I. Peubez, C. Pion, J. Dubayle, Jacquemot, A. Bouchardon, L. Aujame  
(Pasteur Merieux S.V., France)
- 10.20 – 10.50 **COFFEE**
- 10.50 – 11.10 **Monoclonal human anti-CD34 antibodies generated from combinaorial immunoglobulin libraries**  
D.B. Rubinstein, T. Guillaume, M. Symann, M. Sekhvat, P. Leblanc  
(Boston University School of Medicine, USA)
- 11.10 – 11.30 **An analysis of humanization methodologies**  
J. Saldanha, A. Henry, T. Jones, O. Leger, C. Kettleborough, D. Ricketts, A. Rees  
(MRC Collaborative Centre, London, UK)
- 11.30 – 12.30 **POSTERS / FREETIME**
- 12.30 – 13.30 **LUNCH**

## SESSION 5 EMERGING TECHNIQUES

Moderators: K. James, R. Nezlin

- 13.30 – 14.15 **Overview: Applications of organ and tissue explants**  
Keith James  
(University of Edinburgh, UK)
- 14.15 – 14.35 **A comparison of human hybridoma production after EBV transformation or pokeweed mitogen stimulation of peripheral blood lymphocytes**  
I. Blanco, R. Kawatsu, B. Switzer, D.R. Johnson, D. Colcher  
(University of Nebraska, USA)
- 14.35 – 14.55 **Synthesis of immunotoxins by Chinese Hamster Ovary cells**  
J. Demolder, M. van Poucke, K. De Sutter, R. Contreras, W. Fiers  
(University of Gent, Belgium)
- 14.55 – 15.15 **Incorporation of T cell line in fusion partner to generate human MAbs from *Staphylococcus aureus* stimulated B lymphocytes**  
M.M. Gore, S. Singhania, A. Basu, K. Banerjee  
(National Institute of Virology, Pune, India)
- 15.15 – 15.45 **TEA**
- 15.45 – 16.05 **An assay for detection of antigens in immune complexes**  
R. Nezlin  
(Weizmann Institute of Science, Rehovot, Israel)
- 16.05 – 16.25 **Production of antigen specific human monoclonal antibodies by human lymphocytes engrafted in normal strains of mice**  
S. Dagan, R. Eren, I. Lubin, D. Terkieltuab, I. Ben-Moshe, R. Uhlmann, T. Beor-Tzahar, S. Moss, E. Ilan  
(XTL Biopharmaceuticals Ltd, Rehovot, Israel)
- 16.25 – 16.45 **Anti-specific human monoclonal antibodies produced by mice engineered with human Ig YACs**  
A. Jakobovits  
(Cell Genesys Inc, Foster City, USA)
- 16.45 – 17.00 **Closing Remarks and Discussion**

This programme is correct at the time of printing, however, the organisers reserve the right to make any changes that may be necessary.

## POSTER SESSION (Provisional)

### Generically-specific common antigenic epitopes on Salmonella flagellins and applications of their monoclonal antibodies

X. Jiao, X.F. Liu, R.K. Zhang, Z.L. Wang, Q.Y. Wen, X.Z. Cai, J.P. Cao, Y. Jing  
(Yanzhou University, Peoples Republic of China)

### Monoclonal antibodies against human adenovirus type 4 proteins

L. Tarassishin, W.C. Russell  
(Academy of Sciences of Ukraine, Ukraine)

### Antitumour activity of monoclonal antibody CIBCNSH3 generated to the human EGF receptor

A. Meenakshi, N. Sivikar, P.B. Ramesh Babu, J. Sivakumar  
(Cancer Institute (W.I.A.), India)

### Immunochemical approach to study the role of the highly conservative epitope of E1 in the function of the pyruvate dehydrogenase complex

L.S. Khalilova, O.A. Stafeyeva, A.G. Katrucha, T.V. Bulgarina  
(Russian Academy of Sciences, Russia)

### The new conceptual model of immune response of the lymphocytes

N.G. Titova  
(I.I. Mechnikov Research Institute, Moscow, Russia)

### In vitro production of human antispermatid antibodies as probe of autoimmune response associated with immunological infertility

D.K. Dimitrova-Dikanarova, Y. Tsuji, H. Shibahara, M. Mitsuo, T. Hashimoto, K. Koyama  
(Higher Medical Institute, Bulgaria)

### Immunoglobulin switching of hybridoma cells in vitro

G. Spira, M. Paizi  
(Rappaport Institute, Israel)

### Investigation of hepatitis B virus (HBV) markers in eye tissues

V.N. Cushnir, O.S. Slepova  
(State Medical University of Moldova, Republic of Moldova)

### Examination of antibodies to retinal S-antigen and TNF- in patients with insulin dependent diabetes mellitus (IDDM)

O.S. Slepova, V.A. Gerasimenko, G.R. Kalamkarov, T.F. Shevchenko, G. Yu. Zakharova, N.B. Smirnova  
(Moscow Helmholtz Research Institute, Russia)

### Prevalence of CMV-M and CMV-total antibodies in children with inflammatory eye disease (uveitis)

G.I. Krichevskaya, L.A. Katargina  
(Moscow Helmholtz Research Institute, Russia)

### Atlas of markers for cellular membranes status. (Immunophenotypical atlas of cell's membranes)

V.M. Krol, G.V. Vikha  
(JSC Biotechnologia, Russia)

### Autoimmune inflammation in the pathogenesis of post-traumatic vitreoretinopathy

I.P. Khoroshilova, L. Andreeva  
(Moscow Helmholtz Research Institute, Russia)

### The growth of hybridoma cells in serum-free medium

S. Ambrosova, L. Shepel, L. Erokhina  
(Institute of Bio-organic Chemistry, Russia)

### Increased interleukin-1 and interleukin-1A in schizophrenia

P. Sirota, K. Schild, A. Elizur, M. Djaldetti, P. Fishman  
(Abarbanel Mental Health Center, Israel)

### Non pathogenicity of anti-DNA and anti-phospholipid antibodies in IVIG preparations

Y. Shoenfeld, M. Blank, I. Krause  
(Sheba Medical Center, Israel)

### Monoclonal anti-endothelial cell antibodies (AECA), characterization and binding properties

Y. Shoenfeld, B. Gilburd, M. Damianovich, J. George, N. Del Papa, P.L. Meroni  
(Sheba Medical Center, Israel)

### Antigen binding, and induction of experimental APS by anti-cardiolipin corresponding single chain Fv domains

Y. Shoenfeld, M. Blank, A. Waisman, E. Mozes  
(Sheba Medical Center, Israel)

### Pathogenic role of antiendothelial cell antibodies (AECA) in vasculitis: an idiopathic experimental model

Y. Shoenfeld, M. Damianovich, B. Gilburd, J. George, N. Del Papa, A. Afek, I. Goldberg, Y. Koplovic, D. Roth, G. Barkai  
(Sheba Medical Center, Israel)

### The monoclonal antibodies against K- and O- antigens of *Salmonella typhimurium*

M.V. Raevskaya, N.V. Kovalchuk  
(Moscow State University, Russia)

### Immunophenotype of peripheral blood lymphocytes in the patients with ophthalmotomoxoplasmosis

L.E. Teplinskaya  
(Moscow Helmholtz Research Institute, Russia)

### Specific traits of immunopathogenesis in optic neurites of various origins

I.Z. Karlova, L.E. Teplinska, L.A. Kauneison  
(Moscow Helmholtz Research Institute, Russia)

### Use of monoclonal antibodies for the evaluation of the quality of acellular Pertussis vaccine

V.V. Sviridov, M.A. Burkin, I.V. Yakovleva, I.G. Bazhanova, T.N. Remova, N.S. Zakharova  
(Mechnikov Research Institute, Russia)

### Induction of changes in the composition of cell population with *Pseudomonas pseudomallei* antigen in the course of an in vitro response

N.G. Titova, I.V. Razina, V.V. Sviridov  
(Mechnikov Research Institute, Russia)

### Immunotoxins based on antimelanoma monoclonal antibodies B3F7 and risin A-chain or risinus agglutinin A-chain

M.MN. Moisenovich, S.G. Egorova, N.V. Maluchenko, A.G. Tonevisky  
(Moscow MV Lomonosov State University, Russia)

### Enhancement of monoclonal antibodies reactivity to specific antigen by eliminating admixture of metal-binding bacterial products

A.J. Kulberg, S.B. Cheknev, A.A. Rodnikova, Ju. B. Berkun, N.F. Gamaleya  
(Epidemiology & Microbiology Institute, Russia)