

Fourth Symposium on Glycosaminoglycans

Non-anticoagulant actions of Glycosaminoglycans - Results and Perspectives of the German-Italian Collaboration

October 6th-8th, 1994

Villa Vigoni, Lovenno (Como) / Italy

Organizers:

Job Harenberg
1st Department of Medicine
Faculty of Clinical Medicine
University of Heidelberg
Theodor-Kutzer-Ufer
68167 Mannheim

Benito Casu
Istituto Scientifico di Chimica
e Biochimica "G. Ronzoni"
Via G. Colombo, 81
20133 Milano

Welcome to Villa Vigoni !

It is the fourth time that the staff of Villa Vigoni hosts our symposium on the action of polysaccharides in molecular biology, pharmacology, vascular endothelium and the relation to arteriosclerosis. Since the knowledge in this field is expanding, the Italian and German colleagues of this research area decided to include a clinical session on the status and perspectives of the non-anticoagulant properties of GAGs during our meeting.

At the end of each session we have organized round table discussions on selected topics, as outlined in the program. We would like to invite all participants to discuss and comment on these topics.

Manuscripts of the presentations will be published in Plenum Press in a separate volume entitled: Non-anticoagulant activities of Glycosaminoglycans.

Please do not hesitate to contact the organizers of the symposium in the case of difficulties concerning transportation, accommodation or other problems with regard to the symposium.

We thank Professor Lill and his collaborators for enabling this symposium.

Benito Casu

Job Harenberg

Thursday, October 6th, 1994

13.00 - 14.00 *Lunch in Villa Vigoni*

Session Ia: Protein binding of glycosaminoglycans

Chairmen: D.L. Heene, Mannheim

14.30 Welcome address

14.40 **B. Casu, Milano**

Search for protein-binding domains of glycosaminoglycans. Scopes and strategies

15.00 **J. Harenberg, Mannheim**

Analysis of binding of Glycosaminoglycans to blood cells using a fluorescent labeled heparin-derivative

15.20 **U. Lindahl, Uppsala**

Heparan sulfate: a signal substance?

15.50 Discussion

16.10 *Break*

Thursday, October 6th, 1994

Session Ib: Protein binding of glycosaminoglycans

Chairmen: K. van Ackern, Mannheim
B. Casu, Milan

16.30 **G. Mascellani, Modena**
Active sites of dermatansulfate for heparin-cofactor III

16.45 **P. Bianchini, Modena**
Effect of a very low molecular mass heparin on experimental atherosclerosis

17.00 **A. Naggi, Milan**
Simulation of GAG-structures by modification of E. coli polysaccharides K4 and K5

17.15 **R.A. Laine, Baton Rouge/Milan**
Polylactosamines are not obligate receptors for Falciparum Malaria

17.30 **M. Presta, Brescia**
Effects of heparins and modified heparins on selected biological properties of BFGF

17.45 **G. Ghiselli, Milan**
Interaction of glycosaminoglycans with basic fibroblast growth factor

18.00 **Discussion**

19.30 *Dinner at Villa Vigoni*

Friday, October 7th, 1994

Session II:	Chemical determination of GAGs
Chairmen:	F. Markwardt, Erfurt R.A. Laine, Baton Rouge / Milano
9.30	G. Torri, Milan Analysis by NMR spectroscopy
9.45	L. Silvestro, Torino HPLC and mass spectrometry
10.00	R. Malsch, Mannheim HPLC, PAGE and CE
10.15	Discussion
10.30	<i>Coffee break</i>
10.45	D. Rotilio, St. Maria Imbaro CE of chondro-disaccharides
11.00	G. Huhle, Mannheim Monoclonal antibodies to GAGs
11.15	L. Piazzolo, Mannheim Kinetics of heparins using protamin coated latex particles and LMMH-tyramine-FITC
11.30	Discussion
12.30	<i>Lunch at Villa Vigoni</i>

Friday, October 7th, 1994

Session III:	Non-anticoagulant activities of GAGs I
Chairmen:	G. Müller-Berghaus, Bad Nauheim U. Lindahl, Uppsala
14.30	Ch. Cerletti, St. Maria Imbaro In vivo platelet-neutrophil interaction: a new experimental model in the rabbit
14.45	S. Johann, Munich Influence of GAGs on the activity of natural killer cells in vitro
15.00	A. Poggi, St. Maria Imbaro Effects of GAGs on experimental metastasis
15.15	P. Radziwon, Bialystok/Frankfurt TFPI release by GAGs and its role in their mechanism of action
15.30	S. Alban, Regensburg Anticoagulant and antithrombotic activities of curdlansulfate
15.45	Discussion
16.00	<i>Break</i>

Friday, October 7th, 1994

Session IV:	Non-anticoagulant activities of GAGs II
Chairmen:	E. Wenzel, Homburg E. Pogliani, Monza
16.30	G. Camussi, Torino Synergistic effect of PAF and heparin in angiogenesis
16.45	K. M. Kirchmaier, Frankfurt Profibrinolytic effects of GAGs
17.00	E. Marchi, Bologna Activity of GAGs on diabetic nephropathy
17.15	A. Gorio, Milan Neuroprotective and neurogenerative effects of glycosaminoglycans
17.30	A. Iorio, Perugia Non-specific binding of GAG's to proteins
17.45	Discussion
19.30	<i>Dinner at Villa Vigoni</i>

Saturday, October 8th, 1994

Session V:	Clinical applications of Hirudins
Chairmen:	U. Schmitz-Huebner, Herford A. Dettori, Parma
9.30	F. Markwardt, Erfurt Cellular effects of hirudin.
9.50	A. Stemberger Strategies in antithrombogenic coatings of bio-materials
10.05	G. Müller-Berghaus, Nauheim Hirudin as anticoagulant for extracorporeal circulation
10.25	G. Gensini, Firenze Hirudins in cardiovascular disease
10.40	K. Breddin, Frankfurt Hirudins in venous thrombosis
10.55	M.B. Donati, St. Maria Imbaro Role of hirudin in cancer and metastasis
11.10	Discussion
11.45	Concluding Remarks
12.30	<i>Lunch at Villa Vigoni</i>

General Information

Social Program

October 6th, 1994

13.00 - 14.00 *Lunch in Villa Vigoni*

19.30 - 22.00 *Dinner in Villa Vigoni*

October 7th, 1994

12.30 - 14.00 *Lunch in Villa Vigoni*

19.00 - 22.00 *Dinner in Villa Vigoni*

October 8th, 1994

12.30 - 14.00 *Lunch in Villa Vigoni*

Location of the Symposium:

"Villa Vigoni e.V."

Via Giulio Vigoni 1

Loveno di Menaggio

I-22017 Menaggio (Como)

Tel.: 0039-344/32155

Fax: 0039-344/32966

Registration: Thursday, October 6th, 1994

12.00 - 14.00

Villa Vigoni

Submission of manuscripts according to the guidelines of
Plenum Press until November 30th, 1994

Scientific correspondence:

Job Harenberg

1st Department of Medicine

Faculty of Clinical Medicine

University of Heidelberg

Theodor-Kutzer-Ufer

68167 Mannheim

Tel: 0049/621/383-33 78

Fax: 0049/621/383-38 08

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