

# **9<sup>th</sup> Symposium on Glycosaminoglycans**

**September 13th-15th, 2001**



## **Organizers:**

**Job Harenberg**

**4<sup>th</sup> Department of Medicine  
Faculty of Clinical Medicine Mannheim**

**Benito Casu**

**„G. Ronzoni“ Institute for Chemical and Biochemical  
Research, Milan**

**Jürgen Jacob**

**Baxter Deutschland, GmbH, Hyland Immuno Division  
Heidelberg**

Thursday, September 13<sup>th</sup>, 2001

<b>Session I</b>	<b>Glycosaminoglycans as inhibitors of growth factors</b>
<b>14.00-14.10</b>	<b>Moderators: Harenberg J. and Casu B.</b> Welcome and Introduction
<b>14.10-14.30</b>	<b>Presta M., Brescia</b> Role of growth factors in angiogenesis
<b>14.30-14.50</b>	<b>Sasisekharan R., Boston</b> Isolation and sequencing of specific protein-binding GAG fragments
<b>14.50-15.10</b>	<b>Petitou M., Toulouse</b> Synthesis of minimal glycosaminoglycan sequences binding to fibroblast growth factors
<b>15.10-15.30</b>	<b>Discussion</b>
<b>15.30-15.50</b>	<b>Coffee, Tee</b>
<b>Session II</b>	<b>Endothelial protection of Glycosaminoglycans</b>
<b>15.50-16.10</b>	<b>Chairmen: Sasisekharan R. and Gulba D.</b> <b>Baici A., Zürich</b> Glycosaminoglycans and inflammation
<b>16.10-16.30</b>	<b>Alban S., Regensburg</b> Influence of heparin and other sulfated polysaccharides on the selectin-mediated cell adhesion
<b>16.30-16.50</b>	<b>Nenci G., Perugia</b> A Mesoglycan that shows an improvement in peripheral arterial disease
<b>16.50-17.10</b>	<b>Discussion</b>
<b>19.00</b>	<b>Dinner at Villa Vigoni</b>

Friday, September 14<sup>th</sup>, 2001

<b>Session III</b>	<b>Synthesis and characterisation of glycosaminoglycan derivatives</b>
	<b>Moderators: Alban S. and Petitou M.</b>
<b>9.15-9.35</b>	<b>Naggi A., Milano</b> Synthesis and biological properties of nitroheparins
<b>9.35-9.55</b>	<b>Jalkanen M. and Salmivirta M., Turku, Finland</b> Biotechnological glycosaminoglycans
<b>9.55-10.15</b>	<b>Baumann H. and Hupperts B., Aachen</b> Disaccharide, glucosamine sulfate, IR and <sup>13</sup> C NMR for assignment of regioselectivity
<b>10.15-10.30</b>	<b>Discussion</b>
<b>10.30-10.50</b>	<b>Coffee, Tee</b>
<b>Session IV</b>	<b>Pharmacological effects of glycosaminoglycans</b>
	<b>Moderators: Markwardt F. and Jalkanen M.</b>
<b>10.50-11.10</b>	<b>Bisio A., Milan</b> Structural characterization of "gamma"-LMW-heparin
<b>11.10-11.30</b>	<b>Baumann H., Aachen</b> Concepts for regioselective replacement of glycosaminoglycans: reduction of platelet and plasma protein adhesion
<b>11.30-11.50</b>	<b>Piazolo L. and Zokai K., Mannheim</b> Interaction of glycosaminoglycans with GPIIb/IIIa inhibitors
<b>11.50-12.15</b>	<b>Discussion</b>
<b>12.30-14.00</b>	<b>Lunch at Villa Vigoni</b>

Friday, September 14<sup>th</sup>, 2001

<b>Session V</b>	<b>Glycosaminoglycans and Heparinases</b>
	<b>Moderators: Nowak G. and Wenzel E.</b>
<b>14.30-14.50</b>	<b>Fareed J., Chicago</b>  Heparinase 1 as a neutralizing agent for LMWHs and related antithrombotic drugs. Clinical implications
<b>14.50-15.10</b>	<b>Mascellani G., Modena</b>  Identification of two major disaccharides as models for reducing terminals of LMW-heparins.
<b>15.10-15.30</b>	<b>Venkataraman G., Boston</b>  Applications of recombinant heparinase
<b>15.30-15.50</b>	<b>Discussion</b>
<b>15.50-16.10</b>	<b>Coffee, Tee</b>
<b>Session VI</b>	<b>Glycosaminoglycans and Heparanases</b>
	<b>Moderators: Markwardt F. and Venkataraman G.</b>
<b>16.10-16.30</b>	<b>Vlodavsky I., Jerusalem</b>  Recombinant heparanase as a tool for the development of antiangiogenic and antimetastatic substances
<b>16.30-16.50</b>	<b>Casu B., Milan</b>  Modulation of heparin binding to (and inhibition of) fibroblast growth factors and heparanase
<b>16.50-17.10</b>	<b>Eldor A., Tel-Aviv</b>  Human heparanase: Sub-cellular localization, endocytosis and processing may affect the metastatic potential
<b>17.10-17.30</b>	<b>Discussion</b>
<b>19.00</b>	<b>Dinner at Villa Vigoni</b>

Saturday, September 15<sup>th</sup>, 2001

<b>Session VII</b>	<b>Thrombin inhibitors (1)</b>
	<b>Moderators: Fareed J. and Stemberger A.</b>
<b>9.15-9.35</b>	<b>Markwardt F., Erfurt</b> Argatroban, Hirudins, Thrombin Inhibitors
<b>9.35-9.55</b>	<b>Fenyvesi T., Mannheim</b> Comparison of anticoagulant effects of direct thrombin inhibitors
<b>9.55-10.15</b>	<b>Nowak G., Erfurt</b> Pharmacokinetics of r-hirudins and modified hirudins in impaired renal function
<b>10.15-10.30</b>	<b>Discussion</b>
<b>10.30-10.50</b>	<b>Coffee, Tee</b>
<b>Session VIII</b>	<b>Thrombin inhibitors (2)</b>
	<b>Moderators: Nenci G. and Baici A.</b>
<b>10.50-11.10</b>	<b>Stemberger A., Munich</b> Incorporation of r-hirudins to stents: biological results and antibody generation
<b>11.10-11.30</b>	<b>Hoppensteadt D., Chicago</b> Development of TFPI as an antithrombotic drug. Can endogenous modulation of TFPI be adequate?
<b>11.30-11.50</b>	<b>Kirchmaier C.M., Wiesbaden</b> Thrombin-generation on platelet surface: role of activated factor VII and TFPI

<b>11.50-12.10</b>	<b>Fareed J., Chicago</b> Biological activities of original and synthetic glycosaminoglycans to improve treatment of acute arterial and venous disease
<b>12.10-12.30</b>	<b>Discussion and topics for the 10<sup>th</sup> GAG-Symposium</b> <b>Closing remarks</b>
<b>12.30</b>	<b>Lunch at Villa Vigoni</b>

**Sponsors:**

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## **General Information**

## **Social Program**

**Thursday, September 13, 2001**

**19.30:** *Dinner in Villa Vigoni*

**Friday, September 14, 2001**

**8.00-8.45:** *Breakfast*

**13.00 -14.00:** *Lunch in Villa Vigoni*

**19.30:** *Dinner in Villa Vigoni*

**Saturday, September 15, 2001**

**8.00-9.00:** ***Breakfast***

**13.00 -14.00** *Lunch in Villa Vigoni*

**Departure:** ***after lunch***

### **Location of the Symposium:**

"Villa Vigoni e.V."

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**Registration:** Thursday, September 14, 2001

We are glad to announce that the manuscripts of the 8<sup>th</sup> Glycosaminoglycan Symposium are to be published in *Seminars in Thrombosis and Hemostasis 2001*, volume 5.

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