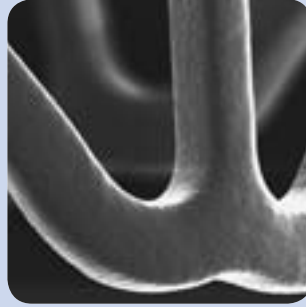
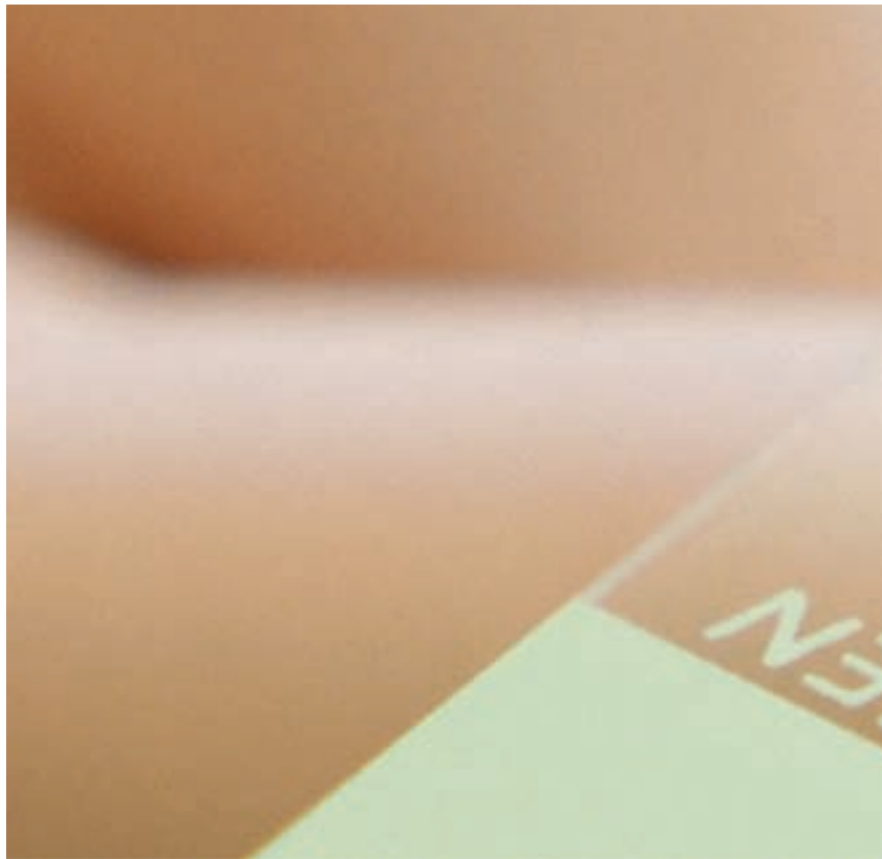


**Good News Comes to the Surface**





Hemoteq is the leading designer and manufacturer of customized coatings for medical devices. Our innovative surface solutions create a sustainable competitive advantage for our clients. Intelligent drug delivery coatings, hemocompatible surfaces and lubricious coatings lay the foundation for the combination products of the next generations. For more efficacy. For more safety.



## Your First Choice for Surface Modification

### A DECADE OF KNOW-HOW AND INNOVATION

When Michael Hoffmann and Roland Horres founded the company in 1999 as a spin-off from the RWTH University of Technology in Aachen, they had high ambitions from the start. Their research focused on biomimicry; their goal was to develop coatings for medical implants that are highly compatible with human blood and tissue.

Ten years later Hemoteq is not only an expert in hemocompatible surfaces, but also a renowned manufacturing pioneer in polymer-based and polymer-free drug-eluting coatings. A broad repertoire of unique platform technologies and a strong intellectual property portfolio allow the company to create competitive, innovative products for a wide range of clinical and biomedical applications. Today Hemoteq serves medical device manufacturers around the globe.





### CORE COMPETENCIES AND SERVICES

- Custom coating design for medical devices
- Custom process development
- Comprehensive regulatory approval support
- Custom manufacturing from pilot to large scale in certified clean-room facilities
- Full product lifecycle support and innovation consulting




R&D  
REGISTRATION  
REALISATION

3RR LIFESCIENCE

**Unsere Expertise  
für Ihren Erfolg**  
Our expertise  
for your success

**3R LIFESCIENCE GMBH:** With more than 20 years of operational and management experience we understand the challenges of the medical device industry and help companies like Hemoteq AG to exceed expectations

### THE KEY TO YOUR SUCCESS – COMPETENT, FOCUSED AND LASTING SUPPORT

#### R FOR R&D

- Technology valuation
- Risk and strategy management
- R&D concepts
- Clinical trial preparation

#### R FOR REGISTRATION

- ISO certification
- CE mark and FDA registration
- Reimbursement strategies
- Optimisation and 'lean production'

#### R FOR REALISATION

- Interim management
- Financing of start-ups
- „Voice of Customer“ studies
- Marketing and market access

**FROM START-UPS TO ESTABLISHED ORGANISATION WE HELP YOU REALISING YOUR POTENTIAL!**

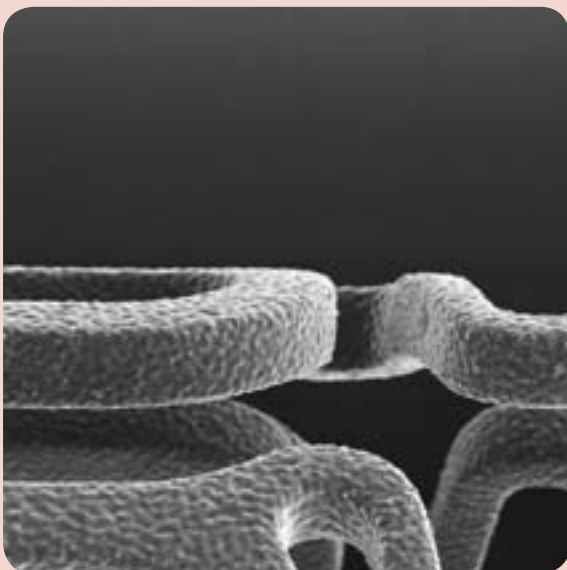
3R LIFESCIENCE GMBH | Fürstenwalder Damm 451 | D-12587 Berlin | Tel. + 49 30 93 628 123 | Fax + 49 30 25 201 712 | [www.3r-lifescience.com](http://www.3r-lifescience.com)



Do not just look into the future – shape it by making things constantly better. At Hemoteq we draw upon the expertise of our interdisciplinary team and collaborate closely with our customers and suppliers. Together we realize products that meet the demands of future markets. High tech is the key – we use it pragmatically. We search for the best practical solution, not the best theory.

For more quality. For your competitive edge.

## HEMOTEQ's Expertise for Your Breakthrough Innovations



### IT'S ALL ABOUT CUSTOMIZATION

Every device needs unique surface properties to reach optimal performance and safety. Therefore, any individual coating developed by Hemoteq represents a carefully customized solution. Not only do we offer you our advanced technologies; we also guide you through the entire process with expert advice – from the first idea to the approved, marketable product.

### DRUG DELIVERY COATINGS

When developing an optimized drug delivery coating for one of our customers, we can select the most appropriate from the bundle of coating platforms in our IP portfolio: Proteqtor®, Repulsion®, Pacliteq™ or HemoPax™. With Ouverture® Hemoteq presents another high-performance drug delivery platform that provides the added value of exceptional hemocompatibility.

Hemoteq's drug delivery coatings meet the highest quality and safety standards applicable to permanent vascular implants. Their excellent performance has been demonstrated in extensive pre-clinical and clinical trials.



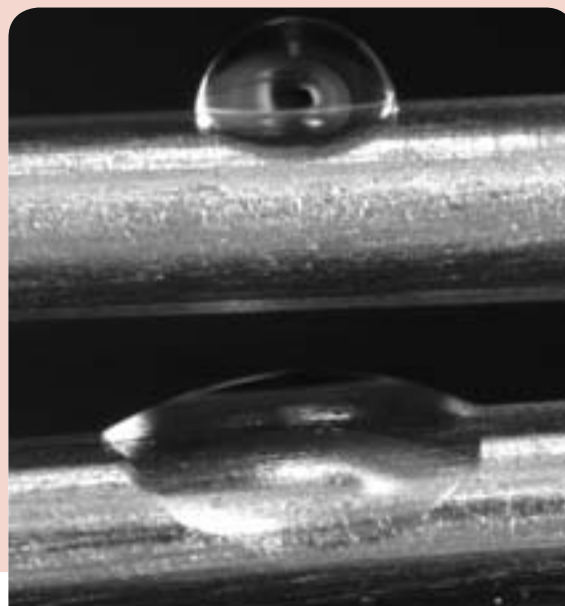
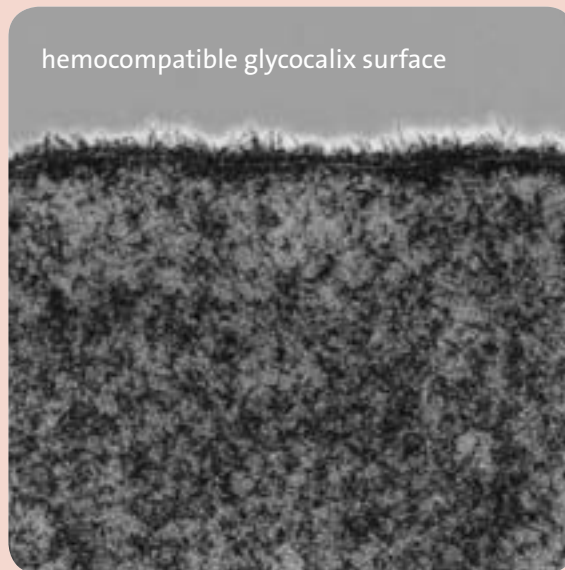
#### **CAMOUFLAGE® – BIOMIMICRY AT ITS BEST**

A perfect masking: Hemoteq's proprietary Camouflage® has been designed to perfectly mimic the natural interface between blood and vessel – a tiny layer of bio-molecules called glycocalix. Camouflage® forms an ultra-thin “magic cap” on the surface of temporary diagnostic and interventional devices as well as vascular implants such as stents and grafts. The exceptional hemocompatibility of the device surface reduces thrombotic side effects and improves the healing of implants.

#### **LUBRITEQ™ – WET LUBRICIOUS AND HYDROPHILIC COATINGS**

The reduction of dynamic and static friction is the key to producing medical devices with high deliverability and durability. Our Lubriteq™ platform consists of synthetic hydrogels with a widely adjustable water binding capability. It delivers unmatched wet lubricity with multiple options for customization – for a wide range of substrates.

hemocompatible glycocalix surface



The performance of medical devices is crucial for saving, prolonging and enhancing life. We are aware of this responsibility and focus our work on the patients' needs. For outstanding solutions with the highest quality and safety standards.

At Hemoteq customer orientation implies that we personally care for your innovative products. Comprehensive services help to maximize your speed-to-market.

For your sustained success.



## It's All About People

### AT YOUR SERVICE – THE HEMOTEQ TEAM

During customized development close contact between the involved partners is essential. Our project managers are your competent contacts for the entire project. An interdisciplinary team of skilled and motivated operators and engineers works to find comprehensive solutions for every client's problems.

Hemoteq's employees do a lot more than cutting-edge product development and manufacturing. Our services cover R&D consulting including pre-clinical trials and regulatory approval assistance. "Coated by Hemoteq" is our team's guarantee that on every single working day and on every single device...

... good news comes to the surface.



### TAKING RESPONSIBILITY – SECURING QUALITY

The highest quality and safety standards are an absolute must when dealing with medical devices. At Hemoteq we pursue this goal every day across all functional areas with a certified quality management system.

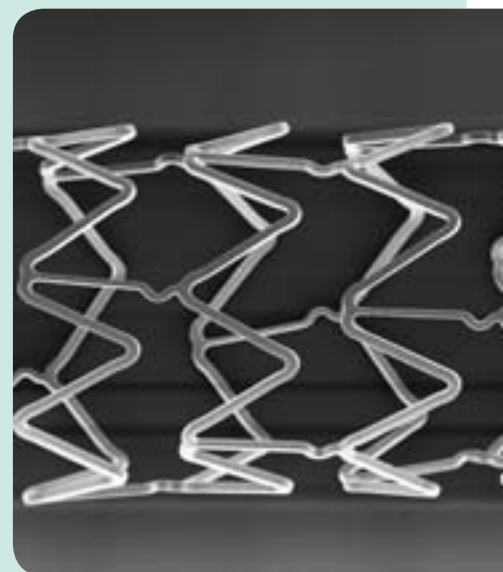
**Your quality products. Coated by Hemoteq. Made in Germany.**

### MONITORING THE FULL PRODUCT LIFE CYCLE

Hemoteq's experts are ready to support you from beginning to end. This kind of consulting could start with a vague idea for a new product, continue with development, extensive testing, regulatory approval and serial production, and stop only with the introduction of the next generation, which was jointly undertaken in time.

### PARTNERSHIP AND COOPERATION

Creating significant innovations is a matter of interdisciplinary convergence and joint creativity. This insight has driven Hemoteq since its earliest days. The two founders, Dr. Michael Hoffmann and Roland Horres, still count strongly on their interdisciplinary and creative teamwork – at Hemoteq as well as within the steadily growing network of successful business partners.



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#### CAD: SolidWorks

Seit 1996 setzen wir mit SolidWorks auf das führende 3D-CAD-System.

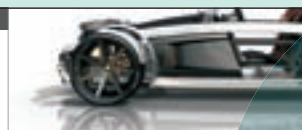
Wir betreuen unsere Kunden von der Planung über die Einführung bis hin zur Projektbegleitung. Darüber hinaus bieten wir Zusatzprodukte aus den verschiedensten Bereichen, wie z.B. FEM, PDM oder Rheologie.

#### CAM: SolidCAM

Mit SolidCAM stellen wir unseren Kunden ein CAM-System zur Verfügung, das vollständig in SolidWorks eingebunden ist und das sich neben seiner Vielseitigkeit nicht zuletzt durch seine einfache Bedienung auszeichnet.

#### 3D-Drucker: Dimension

Seit 2006 liegt ein weiterer Schwerpunkt unserer Tätigkeit im Bereich Rapid Prototyping. Auch hier bieten wir unseren Kunden Technologie vom Marktführer – als Partner von Dimension.



## Hemoteq AG

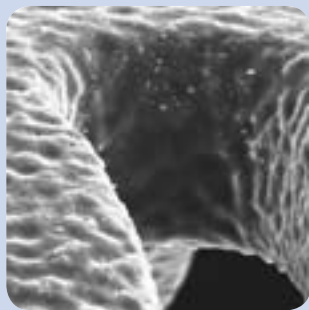
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## Device Process Solutions

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