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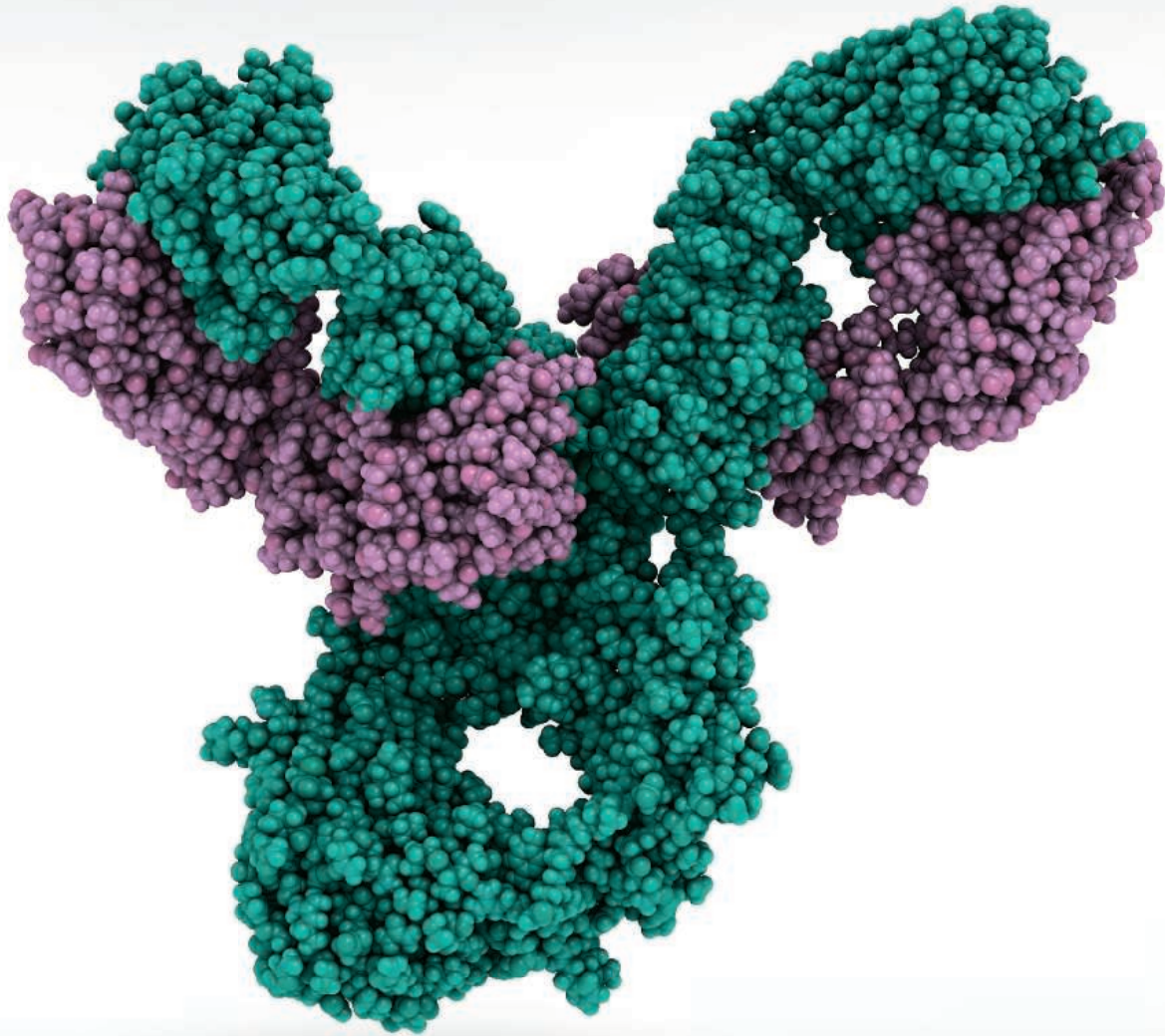
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FROM THE JOURNAL SCIENCE  AAAS



### Heating Block System

The DrySyn UNO is a versatile heating block system designed to enable chemists to perform heating and stirring experiments in single flasks and vials. It uses DrySyn MULTI inserts to convert any standard hotplate stirrer into a reaction block platform for a single flask from 500 mL down to 5 mL in size. In addition, it allows you to use DrySyn Reaction Vial inserts to

undertake securely held heating/stirring experiments in a wide variety of different sized vials. The DrySyn UNO poses a far lower fire risk than oil baths, and eliminates the messy and time-consuming need to remove residual oil contamination from the outside of your glassware. Its solid, anodized aluminum construction delivers outstanding thermal and magnetic transfer efficiency and the durability suitable for any laboratory environment.

#### Asynt

For info: +44-(0)-1638-781709

[www.asynt.com/product/drysyn-uno-base](http://www.asynt.com/product/drysyn-uno-base)

### Anti-Drug Antibody Solution

Gyros Protein Technologies' anti-drug antibody (ADA) solution, Gyrolab ADA solution, enables customers to automatically run drug-tolerant ADA assays efficiently, with small volumes of patient samples (requiring only 5  $\mu$ L) and reagents, reducing hands-on time and shortening runtimes. The Gyrolab ADA protocol and dedicated analysis software, designed for 21 CFR Part 11 compliance, streamline workflows from assay development through screening and confirmation. Gyrolab ADA assays exhibit high drug tolerance and deliver sensitivity and consistent performance, providing quality data for the immunogenicity market. Immunogenicity testing is a regulatory requirement included in the safety assessment of biotherapeutic submissions. ADA immunoassays for biotherapeutics are complex and require lengthy protocols, such as overnight incubations and acid sample pretreatment, to maximize drug tolerance, minimize drug interference, and establish equilibrium. Gyrolab ADA solution provides a nanoliter-scale method for automated acid pretreatment in a Gyrolab Mixing CD with 96 microstructures; this flexible solution can also be used without acid dissociation.

#### Gyros Protein Technologies

For info: 877-433-9400

[www.gyros.com/applications/immunogenicity](http://www.gyros.com/applications/immunogenicity)

### Hyaluronic Acid Quantification Kit

AMS Biotechnology's Hyaluronic Acid Quantification Kit is a competitive, ELISA-like kit that uses a recombinant hyaluronic acid binding protein (rHABP) optimized to quantify HA polymers of average molecular weight greater than 7.4 kDa in samples such as serum, plasma, and culture supernatant. HA, or hyaluronan, is a glycosaminoglycan (GAG) with a simple structure that is widely found in the extracellular matrix, and abundant in synovial fluid, skin, umbilical cord, and vitreous bodies. HA contributes to tissue water retention and to cellular growth, differentiation, and migration. Because of its simplicity and ubiquity, HA is not immunogenic, so classical immunological analysis of it has not been possible. rHABP

specifically detects HA, binding to it from all species and tissues. It does not cross-react with other GAGs or to DNA. Recombinant production means that rHABP offers intrinsically higher safety compared with animal-derived HABP.

#### AMS Biotechnology

For info: +44-(0)-1235-828200

[www.amsbio.com/proteolysis-glycosaminoglycans-habp.aspx](http://www.amsbio.com/proteolysis-glycosaminoglycans-habp.aspx)

### Latex Bead Conjugation Kits

Innova Biosciences' latex bead conjugation kits allow you to conjugate your antibody or protein to high-quality latex beads. Traditional methods of conjugating antibody to latex beads can be time consuming, complex, and can result in loss of antibody and protein. Our ranges of easy-to-use kits (400-nm Blue, 400-nm Red, and 400-nm Black) have specially treated beads to ensure that conjugation is covalent and requires less antibody than traditional passive and covalent latex conjugation. The beads are resistant to aggregation. No extensive optimization is needed, thus saving precious reagents. The three available colors are perfect for multiplexing assays.

#### Innova Biosciences

For info: 855-466-6821

[www.innovabiosciences.com](http://www.innovabiosciences.com)

### Robotic Microscope Microplate Loader

The PLW20 Well Plate Loader from Prior Scientific is an advanced robotic system for automatic well plate handling. Adaptable to most modern inverted microscopes, the simple, rugged, and compact PLW20, together with the Prior ProScan stage, combine to provide a system designed specifically for high-content screening applications with a capacity of 20 microplates. Traditionally the task of manual loading and unloading of microplates for solubility testing could take up two hours of valuable researcher time. With a load cycle of just 29 seconds, the PLW20 now enables rapid automated microscopic imaging of large numbers of samples, freeing up the researcher to undertake more productive tasks. To safeguard data integrity, it also incorporates a barcode reader ensuring that screening is carried out correctly and that unsuitable compounds do not proceed further in the development and testing cycle.

#### Prior Scientific Instruments

For info: 800-877-2234

[www.prior-scientific.co.uk](http://www.prior-scientific.co.uk)

### Laboratory Blender

The Seward Stomacher 400 EVO laboratory blender for food sample preparation combines the gold-standard attributes of the original Stomacher 400 with improved, easy-to-use features, including a one-touch bag loading system. Providing maximum performance while minimizing noise, the 400 EVO, used with the associated 400 ECO sample-preparation bags, can save up to 25% on consumables. ECO bags use significantly less plastic than standard bags, reducing waste and making them both economical and ecofriendly, which is ideal for ISO 14001-compliant laboratories. In addition to reducing stress and disruption to other laboratory work thanks to its efficient and nearly silent blending, the 400 EVO is also very easy to clean. The blender's front cover and strike plate can be removed, facilitating access to the paddle chamber, and has detachable paddles. The removable drip tray also saves cleaning time.

#### Seward

For info: 631-337-1808

[seward.co.uk/stomacher-400-evo](http://seward.co.uk/stomacher-400-evo)

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# Water: Science and Technology

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The Welch Foundation hosts its 62nd Annual Conference on Chemical Research | October 22-23, 2018, Houston, TX



## **James L. Skinner**

### **Welch Conference Chair**

Crown Family Professor and Director of the Water Research Initiative, *Institute of Molecular Engineering, University of Chicago*

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For registration information and a complete program, visit our website at [www.welch1.org/conference/conference-overview](http://www.welch1.org/conference/conference-overview)

Water plays a crucial role in our lives, our atmosphere and oceans, in biology, and in future technologies for solving global problems. This conference will cover both basic science of water and emerging technologies.

## **Speakers and Session Leaders**

### **Session I - Water Clusters and Interfaces**

Franz M. Geiger, *Northwestern University*  
Mark A. Johnson, *Yale University*  
Geraldine L. Richmond, *University of Oregon*  
James T. Hynes, *University of Colorado at Boulder and École Normale Supérieure*

### **Session II - Dynamics and Spectroscopy in Water**

Nancy E. Levinger, *Colorado State University*  
Giulia Galli, *University of Chicago*  
Michael D. Fayer, *Stanford University*  
Peter J. Rossky, *Rice University*

### **Session III - Metastable Water**

Barbara Wyslouzil, *Ohio State University*  
Pablo G. Debenedetti, *Princeton University*  
Anders R. Nilsson, *Stockholm University*  
Valeria Molinero, *The University of Utah*

### **Session IV - Water Technology**

J. R. Schmidt, *University of Wisconsin-Madison*  
Daniel G. Nocera, *Harvard University*  
Jens K. Nørskov, *Stanford University*  
Benny D. Freeman, *The University of Texas at Austin*

A microscopic view of several cells, likely fibroblasts, with prominent nuclei and cytoplasm, set against a warm, golden-brown background. The cells are interconnected, with one large cell in the foreground and others in the background.

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