

# *Biorheology*

## **List of Contents and Author Index VOLUME 34, 1997**



**PERGAMON**



Pergamon

Biorheology, Vol. 34, No. 6, pp. III-VIII, 1997  
Copyright © 1998 Elsevier Science Ltd  
Printed in the USA. All rights reserved  
0006-355X/97 \$17.00 + .00

PII S0006-355X(98)00027-4

## BIORHEOLOGY

---

VOLUME 34, NUMBER 1

1997

---

### Contents

#### *Papers*

- M.W. Weston and J.M. Tarbell 1 Wall shear rate measurements in an elastic curved artery model
- G. Vlastos, D. Lerche and B. Koch 19 The superposition of steady on oscillatory shear and its effect on the viscoelasticity of human blood and a blood-like model fluid
- G.B. Chapman and G.R. Cokelet 37 Model studies of leukocyte-endothelium-blood interactions. II. Hemodynamic impact of leukocytes adherent to the wall of post-capillary vessels
- K. Konstantopoulos, T.W. Chow, N.A. Turner, J.D. Hellums and J.L. Moake 57 Shear stress-induced binding of von Willebrand factor to platelets
- D. Mantzavinos, A.I. Bailey and M.W. Rampling 73 Flash freezing of erythrocyte suspensions

**BIORHEOLOGY****VOLUME 34, NUMBER 2****1997****Contents***Papers*

- |  |     |  |
|--|-----|--|
| G.H. Müller  | 85  | Effect of selective alteration of membranous or cytoplasmic properties on erythrocyte elongation in shear flow |
| P. Mazeron, S. Muller and H. El Azouzi               | 99  | Deformation of erythrocytes under shear: a small-angle light scattering study                                  |
| D. Lee, Y.L. Chiu and C.J. Jen                       | 111 | Platelet adhesion onto the wall of a flow chamber with an obstacle   |
| G.W.M. Peters, J.H. Meulman, and A.A.H.J. Sauren     | 127 | The applicability of the time/temperature superposition principle to brain tissue                              |
| B. Lanel, D. Barthès-Biesel, C. Regnier and T. Chavé | 139 | Swelling of hydrocolloid dressings   |

**BIORHEOLOGY****VOLUME 34, NUMBER 3****1997**

## Contents

*v Obituary - Richard Skalak*

- S. Chien *ix Richard Skalak: Some personal reflections*

*Papers*

- M. Sugihara-Seki and R. Skalak 155 Asymmetric flows of spherical particles in a cylindrical tube
- P. Pawlowski, A. Poznanska and M. Fikus 171 Bioelectrorheological model of the cell. 7. Cellular deformation in the presence of cytochalasin B
- A.I. Barakat, T. Karino and C.K. Colton 195 Microcinematographic studies of flow patterns in the excised rabbit aorta and its major branches
- R. Flieger and R. Grebe 223 Cell-elastometry: A new method to measure erythrocyte membrane elasticity
- O.K. Baskurt and H.J. Meiselman 235 Cellular determinants of low-shear blood viscosity

**BIORHEOLOGY****VOLUME 34, NUMBERS 4/5****1997**

## Contents

*Papers*

- M. Sugihara-Seki and R. Skalak 249 Force acting on spheres adhered to a vessel wall
- M. Hofer and K. Perktold 261 Computer simulation of concentrated fluid-particle suspension flows in axisymmetric geometries
- G. Fu, Y. Zeng, Z. Xia and J. Lee 281 Biorheological features of some soft tissues under a surgical tissue expansion procedure
- M.A. Rogunova, J. Blackwell, A.M. Jamieson, M. Pasumar-Thy and T.A. Gerken 295 Effect of lipids on the structure and rheology of gels formed by canine submaxillary mucin
- O. Thoumine and A. Ott 309 Comparison of the mechanical properties of normal and transformed fibroblasts
- J.C. Hansen, R. Skalak, S. Chien and A. Hoger 327 Spectrin properties and the elasticity of the red blood cell membrane skeleton
- S.M. Razavian, R.B. Wenby, T.C. Fisher and H.J. Meiselman 349 Determination of particle sedimentation rate by ultrasonic interferometry: Role of particle size, density and volume fraction

*Commentary*

- G.R. Cokelet 363 A commentary on the "*in vivo* viscosity law"

*Response to Commentary*

- A.R. Pries and T.W. Secomb 369 Resistance to blood flow *in vivo*: From Poiseuille to the "*in vivo* viscosity law"

- O.K. Baskurt and H.J. Meiselman 375 *Letter to the Editor*

**BIORHEOLOGY****VOLUME 34, NUMBER 6****1997****Contents**iii *Editorial*v *Obituary**Papers*

- L.E. Bilston, Z. Liu and N. Phan-Thien 377 Linear viscoelastic properties of bovine brain tissue in shear
- W. Craelius, C.-J. Huang, H. Guber and C.E. Palant 387 Rheological behavior of rat mesangial cells during swelling in vitro
- N.M. Poflee, A.L. Rakow, D.S. Dandy, M.L. Chappell and M.-N. Pons 405 Inertial migration based concentration factors for suspensions of chlorella microalgae in branched tubes
- B. Lim, P.A.J. Bascom and R.S.C. Cobbold 423 Simulation of red blood cell aggregation in shear flow

*Review*

- G. Cloutier and Z. Qin 443 Ultrasound backscattering from non-aggregating and aggregating erythrocytes - A Review

- I List of Contents and Author Index,  
Volume 34, 1997

**BIORHEOLOGY****AUTHOR INDEX, VOLUME 34, 1997**

- |                                  |                                   |                                      |
|----------------------------------|-----------------------------------|--------------------------------------|
| Bailey, A.I., 73                 | Grebe, R., 223                    | Pasumar-Thy, M., 295                 |
| Barakat, A.I., 195               | Guber, H., 387                    | Pawlowski, P., 171                   |
| Barthès-Biesel, D.,<br>139       | Hansen, J.C., 327                 | Perktold, K., 261                    |
| Bascom, P.A.J., 423              | Hellums, J.D., 57                 | Peters, G.W.M., 127                  |
| Baskurt, O.K., 235,<br>375       | Hofer, M., 261                    | Phan-Thien, N., 377                  |
| Bilston, L.E., 377               | Hoger, A., 327                    | Poflee, N.M., 405                    |
| Blackwell, J., 295               | Huang, C.J., 387                  | Pons, M-N., 405                      |
| Chapman, G.B., 37                | Jamieson, A.M., 295               | Poznanska, A., 171                   |
| Chappell, M.L., 405              | Jen, C.J., 111                    | Pries, A.R., 369                     |
| Chauvé, T., 139                  | Karino, T., 195                   | Qin, Z., 443                         |
| Chien, S., v, ix (No.<br>3), 327 | Koch, B., 19                      | Rakow, A.L., 405                     |
| Chiu, Y.L., 111                  | Konstantopoulos, K.,<br>57        | Rampling, M.W., 73                   |
| Chow, T.W., 57                   | Lanel, B., 139                    | Razavian, S.M., 349                  |
| Cloutier, G., 443                | Lee, D., 111                      | Regnier, C., 139                     |
| Cobbold, R.S.C., 423             | Lee, J., 281                      | Rogunova, M.A., 295                  |
| Cokelet, G.R., 37,<br>363        | Lerche, D., 19                    | Sauren, A.A.H.J., 127                |
| Colton, C.K., 195                | Lim, B., 423                      | Schmid-Schönbein, G.W.,<br>v (No. 6) |
| Craelius, W., 387                | Lipowsky, H.H., v<br>(No. 6)      | Secomb, T.W., 369                    |
| Dandy, D.S., 405                 | Liu, Z., 377                      | Skalak, R., 155, 249, 327            |
| El Azouzi, H., 99                | Mantzavinos, D., 73               | Sugihara-Seki, M., 155,<br>249       |
| Fikus, M., 171                   | Mazeron, P., 99                   | Tarbell, J.M., 1                     |
| Fisher, T.C., 349                | Meiselman, H.J., 235,<br>349, 375 | Thoumine, O., 309                    |
| Flieger, R., 223                 | Meulman, J.H., 127                | Turner, N.A., 57                     |
| Fu, G., 281                      | Moake, J.L., 57                   | Vlastos, G., 19                      |
| Gerken, T.A., 295                | Müller, G.H., 85                  | Wenby, R.B., 349                     |
| Goldsmith, H.L., iii<br>(No. 6)  | Muller, S., 99                    | Weston, M.W., 1                      |
|                                  | Ott, A., 309                      | Xia, Z., 281                         |
|                                  | Palant, C.E., 387                 | Zeng, Y., 281                        |