

BIORHEOLOGY

CONTENTS OF VOLUME 30, 1993

NUMBER 1

A. Drochon, D. Barthes-Biesel, C. Bucherer, C. Lacombe and J. C. Lelièvre	iii	<i>Editorial</i>
J. R. Casley-Smith	1	Viscous filtration of red blood cell suspensions
S. C. De Smedt, P. Dekeyser, V. Ribitsch A. Lauwers and J. Demeester	9	A model of the factors affecting interstitial volume in oedema. Part II: Their effects at various abnormal steady-states
L. Weiss and G. Elkin	31	Viscoelastic and transient network properties of hyaluronic acid as a function of the concentration
M. King, M. Agarwal and J. B. Shukla	43	Effects of mechanical trauma and free-radical exposure on the membrane-integrity of Ehrlich ascites tumor cells
J. P. W. Baaijens, A. A. van Steenhoven and J. D. Janssen	49	A planar model for mucociliary transport: Effect of mucus viscoelasticity
O. Charansonney, S. Mouren, J. Dufaux, M. Duvelleroy and E. Vicaut	63	Numerical analysis of steady generalized Newtonian blood flow in a 2D model of the carotid artery bifurcation
	75	Red blood cell aggregation and blood viscosity in an isolated heart preparation
	85	Contents of <i>Clinical Hemorheology</i> , Volume 12

NUMBER 2

<i>Papers</i>	
J. R. Casley-Smith	93 A model of the factors affecting interstitial volume in oedema. Part III: Partial derivatives and integrals at various volumes
K. A. Brookshier and J. M. Tarbell	107 Evaluation of a transparent blood analog fluid: Aqueous Xanthan gum/glycerin
Y. H. Kim and K. B. Chandran	117 Steady flow analysis in the vicinity of an end-to-end anastomosis
K. Ookawa, M. Sato and N. Ohshima	131 Morphological changes of endothelial cells after exposure to fluid-imposed shear stress: Differential responses induced by extracellular matrices
W. A. van der Reijden, E. C. I. Veerman and A. V. Nieuw Amerongen	141 Shear rate dependent viscoelastic behavior of human glandular salivas
G. Mchedlishvili, N. Beritashvili, D. Lominadze and B. Tsinamdzvrishvili	153 Technique for direct and quantitative evaluation of erythrocyte aggregability in blood samples
	163 Contents of <i>Clinical Hemorheology</i> , Volume 13, Number 1

NUMBERS 3/4

	iii <i>Editor's Note</i>
P. Verdugo	v <i>Editorial</i>
Y. Isogai and P. Verdugo	vii <i>Introduction</i>
<i>Conference Communications</i> <i>Proceedings of the Eighth International Congress of Biomechanics, Yokohama City, Japan, 3–8 August 1992</i>	
<i>Poiseuille Medal Award Lecture</i>	
H. L. Goldsmith	165 From papermaking fibers to human blood cells
<i>Part I</i> <i>Symposium: Rheology of Biopolymer Gels</i>	
M. Djabourov, J.-P. Lechaire and F. Gaill	191 Structure and rheology of gelatin and collagen gels
K. Nakamura and R. Niki	207 Rheological properties of casein micelle gels: The influence of calcium concentration on gelation induced by rennet
S. B. Ross-Murphy and K. P. Shatwell	217 Polysaccharide strong and weak gels

M. A. Lillie and J. M. Gosline	229	The effects of polar solutes on the viscoelastic behavior of elastin
K. Nishinari, K. E. Hofmann, K. Kohyama, H. Moritaka, N. Nishinari and M. Watase	243	Polysaccharide-protein interaction: A rheological study of the gel-sol transition of a gelatin-methylcellulose-water system
<i>Papers</i>		
D. Quemada	253	A non-linear Maxwell model of biofluids: Application to normal blood
T. Matsuo, R. Okeda and K. Yamamoto	267	Study of biofluid mechanics at arterial bifurcations: Importance of flow division ratio as a parameter
S. Hasegawa, G. P. Rodgers, H. Shio, A. N. Schechter and N. Uyesaka	275	Impaired deformability of Heinz body-forming red cells
M. Löw, K. Perktold and R. Raunig	287	Hemodynamics in rigid and distensible saccular aneurysms: A numerical study of pulsatile flow characteristics
	299	<i>Announcements</i>
	301	<i>Erratum</i>
	303	Contents of <i>Clinical Hemorheology</i> , Volume 13, Number 2

NUMBERS 5/6

P. Verdugo	iii	<i>Editorial</i>
P. Verdugo	v	<i>Obituary</i> Alex Silberberg: The Sower
<i>Conference Communications</i> <i>Proceedings of the Eighth International Congress of Biorheology, Yokohama City, Japan, 3-8 August 1992</i>		
<i>Plenary Lecture</i>		
J. F. Stoltz	305	New trends in biorheology
<i>Part II</i> <i>Symposium: Biorheology in Coronary Circulation</i>		
M. Goto, A. Kimura, K. Tsujioka and F. Kajiyama	323	Characteristics of coronary artery inflow and its significance in coronary pathophysiology
T. M. Griffith and D. H. Edwards	333	Mechanisms underlying chaotic vasomotion in isolated resistance arteries: Roles of calcium and EDRF

- Y.-J. Lim, S. Nanto, T. Masuyama and M. Hori 349 Subendocardial myocardial ischemia as assessed with myocardial contrast echocardiography in patients with ischemic heart diseases
- M. Kitakaze, M. Hori, S. Takashima, T. Morioka, T. Minamino, H. Sato, Y. Okazaki, M. Inoue and T. Kamada 359 Superoxide dismutase enhances both adenosine release and coronary hyperemic flow through protection of 5'-nucleotidase against its degradation during reperfusion following ischemia in dogs
- T. Komaru, H. Kanatsuka, K. Dellsperger and T. Takishima 371 The role of ATP-sensitive potassium channels in regulating coronary microcirculation
- P. Sipkema, P. J. W. van der Linden and N. Westerhof 381 Vasoactive properties of rat coronary artery: In the tissue and isolated
- C. Oddou and A. Razakamiadana 387 Mechanical compression of small coronary vessels during the cardiac cycle
- Review Article*
- G. B. Nash and W. B. Gratzer 397 Structural determinants of the rigidity of the red cell membrane
- Papers*
- J. E. Gomez and G. B. Thurston 409 Comparisons of the oscillatory shear viscoelasticity and composition of pathological synovial fluids
- T. Taylor, H. Okino and T. Yamaguchi 429 The effects of supravalvular aortic stenosis on realistic three-dimensional left ventricular blood ejection
- T. Matsumoto, M. Kawai and T. Masuda 435 Rheological properties and fractal structure of concentrated polyion complexes of chitosan and alginate
- G. Cloutier and K. K. Shung 443 Study of red cell aggregation in pulsatile flow from ultrasonic Doppler power measurements
- E. Donath, T. Pomorski and V. F. Pastushenko 463 On the lateral distribution of spicula on echinocytes
- Brief Communication*
- G. I. Zahalak 471 On the ambiguity of viscoelastic-fluid representations of cytoplasm subjected to large deformations
- 473 *Erratum*
- 475 Contents of *Clinical Hemorheology*, Volume 13, Number 3
- I *Contents Index, Volume 30, 1993*
- V *Author Index, Volume 30, 1993*