



# Platelet The

**Gesina Longenecker**



## **Platelet The:**

*The Platelet and its Disorders* B.G. Firkin, 2012-12-06 The aim of this book is to introduce the medical student recent medical graduates involved in postgraduate training and physicians in practice to the role of the platelet in physiology and disease It is not intended to be an encyclopaedic review of all the literature over the past few decades but largely represents a personal account and although resultant prejudices occur an attempt has been made to emphasize to the reader areas of doubt and point the way to other sources which may explore these questions more fully in selected references at the end of each chapter I acknowledge the help of my secretaries Ms Carolyn Harvey and Mrs Marjorie Brown without whom the book would never have been started let alone completed Some illustrations and figures were made by Mr W Shepherd of Monash University and Ms A Leaman of the Alfred Hospital I am indebted to Mrs E Hagon who read and corrected a number of the chapters and for the constant help through discussion and debate with my two close collaborators in research Dr Margaret Howard and Dr Sharron pfueller Dr Siew Choong Mrs Maureen Broadway and Ms Ilona Lakatos documented the methods used in our laboratory to study platelets as outlined in the Appendix

**The Platelets** Gesina Longenecker, 2012-12-02 The Platelets Physiology and Pharmacology is a critical review of the basic platelet systems methodologic critiques and platelet involvement in major disease states This book is composed of 20 chapters that specifically deal with the physiology and biochemistry of the platelet system along with possibilities for and consequences of pharmacologic manipulation The opening chapters examine the basic processes of platelet aggregation and adhesion These topics are followed by discussions on the types and functions of platelet a granule proteins the aspects of adenine nucleotide levels regulation and storage and receptors for catecholamines and consequences of their agonism Other chapters are devoted to the metabolism of arachidonic acid its manipulation consequences and metabolite receptors The discussion then shifts to the second messenger entities specifically calmodulin calcium and cyclic adenosine monophosphate A chapter presents the comparisons of man and commonly used laboratory animals concerning platelet behavior variability Another chapter looks into the use and appropriateness of the use of platelets as models of neurons with a special emphasis on serotonergic neurons The remaining chapters contain critical reviews of platelet involvement in diabetes hypertension and peripheral vascular disease atherogenesis atherosclerosis and ischemic heart disease These chapters also include specific techniques for platelet analysis including lumiaggregometry eicosanoid measurements and serotonin uptake and release This book is an invaluable source for pharmacologists biochemists researchers and clinicians who are interested in platelet involvement in disease

Platelets Alan D. Michelson, 2011-08-29 Platelets Second Edition is the definitive current source of state of the art knowledge about platelets and covers the entire field of platelet biology pathophysiology and clinical medicine Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet related diseases including thrombosis and hemorrhage Novel platelet function tests drugs blood bank storage methods and gene therapies have been incorporated into

patient care or are in development This book draws all this information into a single comprehensive and authoritative resource First edition won Best Book in Medical Science Award from the Association of American Publishers Contains fourteen new chapters on topics such as platelet genomics and proteomics inhibition of platelet function by the endothelium clinical tests of platelet function real time in vivo imaging of platelets and inherited thrombocytopenias A comprehensive full color reference comprising over 70 chapters 1400 pages and 16 000 references

**Platelets in Thrombotic and Non-Thrombotic Disorders** Paolo Gresele, 2002-05-30 Platelets have become an important research target for clinicians and basic scientists in a range of medical disciplines This book reviews current science and applications in fields including thrombosis and hemostasis signal transduction and non thrombotic conditions such as inflammation allergy and tumor metastasis It is a detailed up to date highly referenced text for clinical scientists and physicians including recent developments in this rapidly expanding field It will be an essential reference for biomedical scientists and clinicians in hematology vascular medicine cardiology thrombosis and related disciplines

**The Influence of Substrate Elasticity and Shear Rate on Human Blood Platelet Contraction** Jana Hanke, 2018 Human blood platelets are small anucleate cell fragments that are important for the life saving mechanism of haemostasis i e the process to prevent a haemorrhage Upon injury blood platelets adhere to the exposed extra cellular matrix and spread clot and contract to close the wound This process has to work reliably in a multitude of different environments including surrounding tissues of various stiffnesses as well as the exposure of different shear flows due to blood circulation In the present work the reaction of human blood platelets to such environments is reported Specifically the spatial and temporal contraction behaviour of platelets and its variation is studied in response to elastic substrates within the stiffness range of 19 kPa to 83 kPa and shear rates between  $14 \text{ s}^{-1}$  and  $33 \text{ s}^{-1}$  corresponding to shear rates as found in larger veins To be able to visualise and analyse the contraction of the platelets time resolved traction force microscopy was employed together with a specifically tailored differential particle image velocimetry method and a microfluidic system It was found that platelets exhibit very dynamic contractile behaviour as well as comparatively high forces in the light of their small size The experimental results showed that platelets are not mechanosensitive within the studied stiffness or shear rate ranges This was observed both in the spatial and temporal force development as well as the final spread area reached by the platelets The force was instead depending on the spread area By modelling the cell as an elastic actively contracting disc and fitting this model to the dependency of the force on the area for data collected on various stiffnesses it was concluded that due to their small size platelets are only mechanosensitive to substrates of at least one order of magnitude softer than used here Under flow conditions it was shown that platelets do indeed adapt to the direction of the flow Here the preferred orientation of the contraction in comparison to the flow direction changed from  $45^\circ$  for the lower flow rates to roughly  $90^\circ$  for the highest shear rate To understand this result the stress distribution on the platelets surface under flow was simulated demonstrating the highest stress to be found roughly at  $90^\circ$

Hence the reported orientation of the contraction is accounted for by the reduction of stress on the force transmitting network of the platelet connected to the underlying substrate In conclusion platelets are mechanoinensitive to a multitude of different environments indicating an all or nothing response to such cues      *The Circulating Platelet* Shirley A. Johnson,2012-12-02 The Circulating Platelet focuses on the biochemistry and physiology of platelets Composed of contributions of authors the compilation starts with the discussions on the origin discovery production and life span of blood platelets The discussions continue with the morphology of platelets Concerns include peripheral sol gel and organelle zones and the membrane systems The book also looks at the energy metabolism of thrombocytes and highlights the presence of glycoproteins in blood platelets These include polysaccharides glucosaminoglycans and glycoproteins The text also discusses the properties functions and the physiological value of thrombosthenin The compilation further discusses platelet aggregation and functions of platelets Concerns include collection and processing of platelets preparation of homogenates and the agents that influence platelet aggregation The role of platelets in blood clots and fibrinolysis is emphasized The selection ends with discussions on the immunological reactions of platelets the clinical diseases related to blood platelets and blood transfusion and preservation The text is vital for researchers interested in studying blood platelets      The Non-Thrombotic Role of Platelets in Health and Disease Steve W. Kerrigan,Niamh Moran,2015-11-18 Platelets play a key role in thrombosis and haemostasis However recent evidence clearly demonstrates that the functional role of platelets extends to many other processes in the body With an internationally recognised list of contributing authors The Non Thrombotic Role of Platelets in Health and Disease is a unique and definitive source of state of the art knowledge about the additional role of platelets outside thrombosis and haemostasis The intended audience for The Non Thrombotic Role of Platelets in Health and Disease includes platelet biologists microbiologists immunologists haematologists oncologists respiratory physicians cardiologists neurobiologists tissue engineers as well as students and fellows in these areas      *Platelets in Hematologic and Cardiovascular Disorders* Paolo Gresele,Valentin Fuster,Jose A. Lopez,Clive P. Page,Jos Vermynen,2007-12-13 A rapid increase in our understanding of the biology of platelets and their role in disease in recent years has been paralleled by increasing successes with established platelet modifying therapies in many clinical conditions This text focuses on the clinical role of platelets in a wide variety of haematologic cardiovascular and other disorders providing a practical clinically relevant handbook for all clinicians and researchers interested in platelets and their role in disease Covering platelet physiology bleeding disorders thrombotic disorders and antithrombotic therapy Chapters cover all the conventional and less conventional aspects of platelet involvement in disease with an emphasis on recent clinical developments Clear take home messages have been included in each chapter to aid clinical practice With contributions from leading experts across three continents Platelets in Hematologic and Cardiovascular Disorders is an up to date well illustrated practical resource for everyone involved in clinical practice with platelet disorders      **Laboratory Evaluation of Platelets for Transfusion** J. C.

Frantantoni, J. M. Mishler, 1981-07-24      **Mechanisms of Stimulus—Response Coupling in Platelets** J. Westwick, M. F. Scully, D. E. MacIntyre, V. V. Kakkar, 2013-03-09 Since its inception the research area of platelet pharmacology has always been a vigorous one and it is a characteristic that new approaches to the understanding of platelet function are rapidly and thoroughly investigated The intensity of this activity is attributable probably to an appreciation by research workers in the field that a satisfactory therapeutic control of platelet function has yet to be realized Also that if and when this problem of controlling platelet function is achieved the benefits to clinical medicine will be immense since platelets are known to be involved in a multiplicity of events coupled within the haemostatic mechanisms and inflammatory responses Aberrations in the behaviour of platelets is part of the aetiology of atherosclerosis myocardial and cerebral infarction and thrombosis At this point in time research in platelet function is in a particularly rapid state of flux The recent findings of research workers active in the field and also workers investigating mechanisms of stimulus response coupling in other cells have provided interesting insights into the generality of mechanisms involved in the function of responsive cells One may itemize these developments as the area of cell receptor ligand interaction induction of cellular response by protein phosphorylation and calcium flux The mechanism of these latter events occurs through the activity of phospholipase generating transient intermediates These intermediates may act as ionophores or enzyme activators or may in the case of eicosanoids reinforce and make irreversible the cellular response      **Thrombosis and Hemorrhage** Joseph Loscalzo, Andrew I. Schafer, 2003 Now in its Third Edition this authoritative text continues to provide a comprehensive and systematic review of the biology pathobiology and clinical disorders of the hemostatic system Its unique organization of the basic sciences coupled with clinical sections yields a user friendly integrated text and a reference tool that meets the needs of diverse investigators and clinicians of contemporary medicine for understanding the hemostatic system New chapter topics covered in this edition include angiogenesis and vasculogenesis hemorrhagic complications of antithrombotic therapy interactions of coagulation and fibrinolytic proteins with the vessel wall and less common thrombotic disorders      Diagnosis and Treatment in Internal Medicine Patrick Davey, David Sprigings, 2018-08-30 Diagnosis and Treatment in Internal Medicine equips trainee doctors with the essential skills and core knowledge to establish a diagnosis reliably and quickly before outlining the management of the clinical condition diagnosed Organised into three sections the first provides a vital overview whilst the second focuses on common presentations and diagnoses Uniquely this new book shows readers how to turn symptoms into a list of diagnoses ordered by probability a differential diagnosis Experienced consultants who teach trainees every day demonstrate how to derive an ordered differential diagnosis how to narrow this down to a single diagnosis and if not how to live with diagnostic uncertainty The final section provides a comprehensive account of the management of system based syndromes and diseases Highly structured chapters emphasize how common conditions present how to approach a diagnosis and how to estimate prognosis treatment and its effectiveness An onus is placed on the development of crucial diagnostic skills and the ability to

devise evidence based management plans quickly and accurately making this an ideal text for core medical trainees

Advances in Morphogenesis M. Abercrombie, Jean Brachet, 2013-10-22 Advances in Morphogenesis Volume 5 covers the significant advances in various aspects of morphogenesis This volume contains six chapters that specifically consider the morphological aspects and model systems of cell growth and development The opening chapter describes the features and various levels of patterns exhibited by feathers with emphasis on their application as a model system to delineate morphogenesis in birds The subsequent chapter examines the evidence concerning the control of cell differentiation organ initiation and embryo development in organ and tissue culture A chapter emphasizes the hypertrophic growth control to the liver and kidney The discussion then shifts to the ultrastructural studies of the amphibian egg and its surrounding layers which which have clarified many aspects related to morphogenesis during the critical stages of development prior to fertilization The final chapters examine the mechanisms for the establishment of specific connections between different sets of neurons These chapters also look into the certain steps of macromolecular coordination that lead to the formation or transformation of the vitelline membrane the cortical particles the fertilization membrane and the hyaline layer This book is directed primarily toward developmental biologists

Serotonin Paul M. Pilowsky, 2018-09-21 Serotonin The Mediator That Spans Evolution provides a comprehensive review of the widespread roles for serotonin in respiratory cardiovascular and thermoregulatory control and for growth and development in early life This important resource highlights serotonin s role in normal unstressed conditions and in response to a variety of physiological stressors It focuses on new animal models comparing and contrasting data from mice and rats In addition the book compares and contrasts the physiological effects of brain and blood serotonin systems and includes new data suggesting that the influence of serotonin is in part through the regulation of gene expression Finally it discusses the role of serotonin system dysfunction in a variety of pathophysiological conditions including sleep apnea obesity and hypertension and presents compelling evidence that this dysfunction is involved in Sudden Infant Death Syndrome SIDS Includes the latest information on new animal models of serotonin system dysfunction Explores the wide scope of serotonin s influence on multiple organ and physiological systems Highlights the autonomous functioning of the brain and body serotonin systems Provides compelling evidence of serotonin dysfunction in SIDS a leading cause of death in infancy

Biomaterials Science Buddy D. Ratner, 1996 Materials science and engineering Properties of materials Classes of materials used in medicine Biology biochemistry and medicine Host reactions to biomaterials and their evaluation Testing biomaterials Degradation of materials in the biological environment Application of materials in medicine and dentistry Practical aspects of biomaterials Implants and devices New products and standards

**Medical Pharmacology and Therapeutics E-Book** Derek G. Waller, Tony Sampson, 2013-08-07 This book covers all the pharmacology you need from basic science pharmacology and pathophysiology through to clinical pharmacology to therapeutics in line with the integrated approach of new medical curricula The first section covers the basic principles and

the rest is organised by body systems The book ends with sections on toxicity and prescribing practice Integrates basic science pharmacology clinical pharmacology and therapeutics Brief review of pathophysiology of major diseases Case histories and multiple choice questions and answers Tabular presentation of all common drugs within each class Section on further reading Kinetics chapter simplified with more practical examples Includes more on genetic issues Drug tables made more concise to make information more accessible Fully updated to reflect current clinical practice

**Neonatal Hematology** Pedro A. de Alarcón, Eric J. Werner, 2005-08-18 Written by practising physicians specializing in pediatric hematology neonatology immunology pediatric infectious disease and transfusion medicine this is a practical guide to the pathogenesis recognition and management of hematologic problems in the neonate The focus is on clinical issues and practical approaches to diagnosis and treatment given

***Hematology in Practice*** Betty Ciesla, 2018-11-27 Basic principles of hematology made memorable Build a solid understanding of hematology in the context of practical laboratory practice and principles Visual language innovative case studies role playing troubleshooting cases and laboratory protocols bring laboratory practice to life Superbly organized this reader friendly text breaks a complex subject into easy to follow manageable sections Begin with the basic principles of hematology discover red and white blood cell disorders journey through hemostasis and disorders of coagulation and then explore the procedures needed in the laboratory

**Blood Banking and Transfusion Medicine** Christopher D. Hillyer, Leslie E. Silberstein, Paul M. Ness, Kenneth C. Anderson, John D. Roback, 2006-10-18 Ever since the discovery of blood types early in the last century transfusion medicine has evolved at a breakneck pace This second edition of Blood Banking and Transfusion Medicine is exactly what you need to keep up It combines scientific foundations with today's most practical approaches to the specialty From blood collection and storage to testing and transfusing blood components and finally cellular engineering you'll find coverage here that's second to none New advances in molecular genetics and the scientific mechanisms underlying the field are also covered with an emphasis on the clinical implications for treatment Whether you're new to the field or an old pro this book belongs in your reference library Integrates scientific foundations with clinical relevance to more clearly explain the science and its application to clinical practice Highlights advances in the use of blood products and new methods of disease treatment while providing the most up to date information on these fast moving topics Discusses current clinical controversies providing an arena for the discussion of sensitive topics Covers the constantly changing approaches to stem cell transplantation and brings you the latest information on this controversial topic

**Postgraduate Haematology** A. Victor Hoffbrand, Daniel Catovsky, Edward G. D. Tuddenham, 2008-04-15 Most hematologists need a revised and practical textbook in which they can rapidly search on the morning of a consultation This book will be an important resource in such situations New England Journal of Medicine A well established and respected review of hematology Postgraduate Haematology is a practical readable text which will give trainees residents and practising hematologists up to date knowledge of the pathogenesis clinical and laboratory features and management of blood disorders



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