



I Domain Integrins [

Gullberg, Donald,
ed. lit

Springer Netherlands,
2014

Medicine Life sciences Medical genetics Biochemistry Biomedicine
general Life Sciences, general Gene Function Medical Biochemistry

Monografía

The integrin family is composed of 24 members and approximately ten years ago (2003) we published a book devoted to the nine I domain integrin subunits. In this second edition, I am pleased that most of the original authors have been able to contribute to the updated version. I domain containing integrins include collagen receptors and leukocyte receptors. In 2003 the knockout mouse phenotypes for all of the I domain integrins had not yet been published; they are now, and are summarized and discussed in this edition. Interestingly, a recent 10 integrin mutation in dogs has indicated that collagen-binding integrins in the musculoskeletal system might have much more severe phenotypes in larger animals/humans compared to the mild integrin phenotypes observed in collagen-binding integrin deficient mice. This finding is further discussed in the book. In the cancer field, the microenvironment is taking center stage, and here collagen receptors on fibroblasts are predicted to play important roles in paracrine signaling, in regulating tissue stiffness and matrix remodeling. New technologies, new mouse models in combination with analyses of I integrins in larger animals/humans are thus predicted to increase our knowledge about this group of receptors. With this in mind we look forward to another 10 years of research with I domain integrins

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzYyMjE2OTQ>

Título: I Domain Integrins Recurso electrónico] edited by Donald Gullberg

Editorial: Dordrecht Springer Netherlands Imprint: Springer 2014

Editorial: Dordrecht Springer Netherlands 2014

Descripción física: XIV, 179 p. 50 il., 32 il. col

Mención de serie: Advances in Experimental Medicine and Biology 819

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographical references and index

Contenido: Preface -- 1 Evolution of integrin I domains -- 2 Integrin $\alpha 1 \beta 1$ -- 3 Integrin $\alpha 2 \beta 1$ -- 4 Integrin $\alpha 10 \beta 1$ - a collagen receptor critical in skeletal development -- 5 Integrin $\alpha 11 \beta 1$ - a major collagen receptor on fibroblastic cells -- 6 Regulation of integrin activity by phosphorylation -- 7 Integrin αEb7 : molecular features and functional

significance in the immune system -- 8 Structural aspects of integrins -- 9 Integrin recognition motifs in the human collagens -- 10 Cellular signalling by collagen-binding integrins -- 11 The therapeutic potential of I-domain integrins -- Index

Lengua: English

ISBN: 9789401791533 9789401791540 9789401791526 9789402402902

Materia: Medicine Life sciences Medical genetics Biochemistry Biomedicine general Life Sciences, general Gene Function Medical Biochemistry

Autores: Gullberg, Donald, ed. lit

Enlace a formato físico adicional: 1-322-47752-3 94-017-9152-X

Punto acceso adicional serie-Título: Advances in Experimental Medicine and Biology 819

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es