

1. Record Nr.	UNINA9911087396203321
Titolo	Testing tribocorrosion of passivating materials supporting research and industrial innovation : handbook // edited by J.-P. Celis & P. Ponthiaux
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2012
ISBN	1-351-54693-7 1-5231-2062-2 1-351-54694-5 1-315-08738-3 1-907975-21-7 9781315087382
Edizione	[1st ed.]
Descrizione fisica	1 online resource (216 p.)
Collana	European Federation of Corrosion publications, , 1354-5116 ; ; no. 62
Disciplina	338/.064 620.11223 658.57
Soggetti	Tribology Chemistry, Technical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	The Institute of Materials, Minerals and Mining"--Cover.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Half title page; Contents; European Federation of Corrosion (EFC) publications: Series introduction; Volumes in the EFC series; List of Symbols; 0 Introduction; 1 Phenomena of tribocorrosion in medical and industrial sectors; 2 Depassivation and repassivation phenomena: synergism in tribocorrosion; 3 Specific testing techniques in tribology: laboratory techniques for evaluating friction, wear, and lubrication; 4 Specific testing techniques in tribology and corrosion: Electrochemical techniques for studying tribocorrosion processes in situ 5 Design of a tribocorrosion experiment on passivating surfaces: Modelling the coupling of tribology and corrosion 6 Towards a standard test for the determination of synergism in tribocorrosion: Design of a protocol for passivating materials; 7 Towards a standard test for the determination of synergism in tribocorrosion: Detailed testing procedure for passivating materials; 8 Normative approach; Index

Sommario/riassunto

This book is intended primarily for industrial laboratories and technical centres interested in standardised tests in the field of tribology and combined tribology-corrosion.

2. Record Nr.	UNINA9911097658203321
Titolo	Chemotaxis : types, clinical significance, and mathematical models / / Timothy C. Williams, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2011
ISBN	1-61728-739-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (228 p.)
Collana	Cell biology research progress Nova biomedical
Altri autori (Persone)	WilliamsTimothy C
Disciplina	578.01/2
Soggetti	Chemotaxis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Library of Congress Cataloging-in-Publication Data -- Contents -- Preface -- Chapter 1 -- The Cell Migration Signalosome -- Gabriele Eden ¹ , Marco Archinti ² , Federico Furlan ³ , Paul Fitzpatrick ⁴ , Ronan Murphy ⁴ and Bernard Degryse* -- Abstract -- Introduction -- Cell Migration -- A Touch of History -- A Definition of cell Migration -- The Cell Migration Cycle -- Signalling Starts Cell Migration -- Biomechanical Force -- The Polarization of The Motile cell -- The Cell Migration Signalosome -- The Walk on the Integrins -- uPAR Structure -- uPAR, the Migration Leader -- The Molecular Interactions between uPAR and the Integrins -- More than Simply Adding uPAR Plus the Integrins -- Conclusion -- References -- Chapter 2 -- Plant Growth-Promoting Bacteria: The Role of Chemotaxis in the Association Azospirillum Brasilense-Plant -- Raúl O. Pedraza ¹ , María I. Mentel ¹ , Alicia L. Ragout ² , Ma. Luisa Xiqui ³ , Dulce Ma. Segundo ³ and B. E. Baca ³ -- Abstract -- Introduction -- Physiology of Azospirillum Chemotaxis -- The Research for the Chemoreceptors in Azospirillum -- Genetics and Biochemical of Determinants Involved in Chemotaxis in Azospirillum -- Identification of Chsa, A Novel Protein Involved in

Chemotaxis -- The Role of Bacterial Motility and Chemotaxis in Azospirillum-Plant Interaction -- Chemotaxis of A. Brasilense towards Strawberry Root Exudates Assessed by the Agarose-Plate Method -- Chemotaxis of A. Brasilense Towards Strawberry Root Exudates Assessed by the Capillary Method -- Sugars and Proteins Determination of Strawberry Root Exudates -- Conclusion -- Acknowledgments -- References -- Chapter 3 -- CD46, Chemotaxis and MS- Are These Linked? -- Siobhan Ni Choileain^{1,2,3}, Jillian Stephen², Belinda Weller⁴ and Anne L. Astier^{1,2,3*} -- Abstract -- Introduction -- Multiple Sclerosis -- Chemokines -- Chemokines and Their Receptors and MS. GRKs and inflammation -- CD46 -- CD46 and T cells -- CD46 and signal transduction -- MS and CD46 -- CD46 and chemotaxis -- Integrins -- Conclusion -- Acknowledgment -- References -- Chapter 4 -- Regulation of Chemotaxis by Heterotrimeric G Proteins -- Maggie M. K. Lee¹ and Yung H. Wong^{2*} -- Abstract -- Introduction -- Gi Subfamily -- Gs Subfamily -- Gq Subfamily -- G12 Subfamily -- G Complex -- Signal Integration of Gi and Gq -- Signal Integration of Gi and G12 -- Signal Integration of Gq And G12 -- Conclusion -- Acknowledgments -- References -- Chapter 5 -- Chemotaxis in the Model Organism Chlamydomonas Reinhardtii -- E.G. Govorunova^{1*}, O. O. Voytsekh^{1,3}, A.P. Filonova^{1,3}, M.A. Kutuzov^{2**}, M. Mittag³ and O.A. Sineshchekov¹ -- Abstract -- Introduction -- Materials and Methods -- Strains and Culture Conditions -- Measurement of Chemoaccumulation -- Photoelectric Measurements -- Gel Filtration, Mass Spectrometry and Determination of Amino Nitrogen -- Results and Discussion -- Inhibition of PCs by Tryptone Depends on Extracellular K⁺ -- Analysis of Tryptone Fractions -- Conclusion -- Acknowledgments -- References -- Chapter 6 -- Chemotaxis-Based Assay for the Biological Action of Silver Nanoparticles -- E. M. Egorova^{*1}, S. I. Beylina², N. B. Matveeva² and -- L. S. Sosenkova¹ -- Abstract -- Introduction -- Experimental -- Results and Discussion -- I. Experiments in Water Solution -- Viability of Plasmodium and Suppression of Contractile Auto-Oscillations -- Sustained Auto-Oscillations as a Measure of Biocidal Efficiency -- II. Experiments on Agar Substrate -- Assessment of the Relative Efficiency of Agents Introduced Into Agar Substrate with the Use of Temporal and Spatial Chemotactic Tests -- Comparison of the Repellent Action for Different SNP Preparations -- Conclusion -- Acknowledgments -- References -- Chapter 7. Chlamydomonas as the Unicellular Model for Chemotaxis and Cellular Differentiation -- E.V. Ermilova -- Abstract -- Introduction -- Advantages of Chlamydomonas as a Model Organism for the Analysis of Chemotaxis -- Sexual Life Cycle -- Chemotaxis of Vegetative Cells -- Chemotaxis of Cells during Gametogenesis -- Role of Ammonium in Change of Chemotaxis Mode -- Ammonium Transport in Gametes -- Role of Light in Change of Chemotaxis Mode -- Conclusion -- Acknowledgments -- References -- Index -- Blank Page.

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Discusses research in the study of chemotaxis including the cell migration signalosome, the role of chemotaxis in the association of the azospirillum brasilense plant, the role of CD46 in the control of chemotaxis of activated T cells in MS pathogenesis and the regulation of chemotaxis by heterotrimeric G proteins.