

BERG & BSRG books and book chapters from 2008 to 2011

2011

Cabrito T.R., E. Remy, M.C. Teixeira, P. Duque, I. Sá-Correia, "Resistance to herbicides in the model organisms *Saccharomyces cerevisiae* and *Arabidopsis thaliana*: the involvement of multidrug resistance transporters", In: *Herbicides and Environment* (Kortekamp A., Ed), INTECH, Vienna, Austria, 623-640, 2011.

de Carvalho, C.C.C.R., da Fonseca, M.M.R. "Bioreactions and bioreactor operation | Biotransformations", in: *Engineering Fundamentals in Biotechnology, Vol. 2* (Collin Webb, Ed.), *Comprehensive Biotechnology, 2nd Edition* (Editor-in-Chief: Murray Moo-Young), Elsevier, Oxford, pp. 451-460 (2011)

dos Santos, F., Andrade, P.Z., Eibes, G., da Silva, C.L., J.M.S. Cabral, "Ex-vivo expansion of human mesenchymal stem cells on microcarriers", in: *Mesenchymal Stem Cell Assays and Applications, Methods in Molecular Biology, Vol 698, Part 2* (Vemuri, Mohan; Chase, Lucas G.; Rao, Mahendra S., editors), Humana Press/Springer, New York, pp. 189-198 (2011)

Felizardo, P., Menezes, J.C., Neiva-Correia, M.J., "PAT use in biofuels manufacturing", in: *PAT Applied in Biopharmaceutical Process Development and Manufacturing An Enabling Tool for Quality-by-Design*, Eds Cenk Undey, Duncan Low, Jose C. Menezes, Mel Koch CRC Press, Seattle, pp 201-221 (2011)

Fernandes, P., Marques, M.P.C., Carvalho, F., de Carvalho, C.C.C.R., "Organic-solvent tolerant Gram-positive bacteria: applications and mechanisms of tolerance", In: *Organic solvents: properties, toxicity and industrial effects* (Ryan E. Carter, Ed.), Nova Science Publishers, Hauppauge, New York, pp. 89-103 (2011)

Fernandes-Platzgummer, A., Diogo, M.M., da Silva, C.L., Cabral, J.M.. "Large-scale expansion of mouse embryonic stem cells on microcarriers", *Methods Mol Biol.*, 690:121-34 (2011)

Ferreira AS, Silva IN, Moreira LM., "Mechanisms controlling the expression of the exopolysaccharide of *Burkholderia* and role in niche adaptation", In: *Biotechnology of Biopolymers*, Elnashar M (ed.), INTECH, Vienna, Austria (ISBN 978-953-307-179-4), pp. 147-164 (2011).

Fialho A.M. "Bactérias Inimigas de Tumores: Novas Terapias para Combater o Cancro", In: *Laboratórios Abertos 2011*, Lemos M.A., Azevedo C.G. (eds), (e-book), 2011

Lourenço, N.M.T., Nunes, A.V.M., Duarte, C.M.M., Vidinha, P., "Ionic liquids gelation with polymeric materials: the ion jelly approach" in: Applications of Ionic Liquids in Science and Technology (Scott Handy editor), Middle Tennessee State University, USA, pp 155-172 (2011)

Menezes, J.C., "Process analytical technology and quality by design in bioprocess development and manufacturing", in: Industrial Biotechnology, Vol 3, Ed. A Moreira, in Comprehensive Biotechnology, 2nd Edition (Editor-in-Chief: Murray Moo-Young), Elsevier, Oxford, pp. 501-509 (2011)

Resistance to herbicides in the model organisms *Saccharomyces cerevisiae* and *Arabidopsis thaliana*: the involvement of multidrug resistance transporters, Tânia Rodrigues Cabrito, Estelle Remy, Miguel Nobre Parreira Cacho Teixeira, Paula Duque Magalhães Santos, Isabel Sá-Correia, Herbicides and Environment, INTECH, 2011

Sousa S.A., J.R. Feliciano, J.H. Leitão, "Sugar Nucleotides: Biosynthetic pathways and Biological Roles of an Important Class of Intermediate Metabolites in Bacteria". In: Biotechnology of Biopolymers (Edited by Magdy M. Elnashar), Intech, 2011. ISBN:978-953-307-179-4.

Sousa, S.A., Feliciano, J.R., Leitão, J.H., "Activated sugar precursors: biosynthesis and biological roles of an important class of intermediate metabolites in bacteria", in: Biotechnology of Biopolymers, Magdy Elnazhar (Ed.), InTech, 257-274, 2011. (ISBN: 978-953-307-179-4)

2010

Books

Fialho A.M., Chakrabarty A.M. "Emerging Cancer Therapy: Microbial Approaches and Biotechnological tools" John Wiley & Sons, 2010 (ISBN: 978-0-470-44467-2)

Ramos C.G., A.M. Grilo, J.H. Leitão. Small non-coding RNAs in Prokaryotes: Roles in Pathogenesis and Potential Therapeutic Targets. LAP Lambert Academic Publishing Lambert Academic Publishing, 2010. ISBN-10: 3838321162; ISBN-13: 978-3838321165.

Book chapters

Bakeev, K.A., Menezes, J.C., "Future trends for PAT for increased process understanding and growing applications in biomanufacturing", in: Process Analytical Technology: Spectroscopic Tools and Implementation Strategies for the Chemical and Pharmaceutical Industries, 2nd Edition (K.A. Bakeev, Editor), John Wiley & Sons, Chichester, pp. 521-543 (2010)

Cabrito TR, MC Teixeira, I Sá-Correia, "Global adaptive response and resistance to agricultural fungicides: lessons from yeast and phytopathogenic fungi" In: Fungicides: Chemistry, Environmental Impact and Health Effects (Columbus F, Ed), Nova Science Publishers, New York, USA, p. 228-253, 2010, ISBN:978-1-60692-631-4

de Carvalho, C.C.C.R., "Adaptation of Rhodococcus to organic solvents", in: Biology of Rhodococcus (H.M. Alvarez, Editor), Microbiology Monographs, Vol. 16 (A. Steinbüchel, Series Editor), Springer Verlag, Berlin Heidelberg, pp. 109-131 (2010)

Fernandes, P., "Enzymes in sugar industries", in: Enzymes in Food Processing: Fundamentals and Potential Applications (P. Panesar, S.S. Marwaha, H.K. Chopra, Editors), I.K. International Publishing House Pvt. Ltd., New Delhi, pp. 165-197 (2010)

Fernandes, P., Cabral, J.M.S., "Applied biocatalysis: An overview", in: Industrial Biotechnology- Sustainable growth and economic success (W. Soetaert, E.J. Vandamme, Editors), Wiley-VCH Verlag Gmbh, KGaA, Weinheim, pp. 227-250 (2010)

Fernandes, P., Cabral, J.M.S., "Steroid bioconversions", in: Encyclopedia of Industrial Biotechnology - Bioprocess, Bioseparation, and Cell Technology, Vol. 7 (M. Flickinger, Editor), John Wiley & Sons, New York, pp. 4610-4628 (2010)

Fialho A.M., Chakrabarty, A.M. "Promiscuous Anticancer Drugs from Pathogenic Bacteria: Rational versus Intelligent Drug Design", In: Emerging Cancer Therapy: Microbial Approaches and Biotechnological tools, Fialho A.M., Chakrabarty A.M. (eds), John Wiley & Sons, Inc, p. 181-198, 2010

Fialho A.M., Chakrabarty, A.M. "Recent Patents on Bacterial Proteins as Potential Anticancer Agents", In: Frontiers in Anti-Cancer Drug Discovery Vol. 1, Iqbal Choudhary M., Atta-ur-Rahman FRS (eds), Bentham Science Publishers, (e-book; <http://bentham.org/ebooks/fiacdd/contents.htm#top>), p. 601-622, 2010

Fialho A.M., Chakrabarty, A.M. "The Role and Importance of Intellectual Property Generation and Protection in Drug Development", In: Emerging Cancer Therapy: Microbial Approaches and Biotechnological tools, Fialho A.M., Chakrabarty A.M. (eds), John Wiley & Sons, p. 405-419, 2010

Mata, A.M.T., Lourenço, N.D., Pinheiro, H.M., "Effect of a respiratory inhibitor on the bioconversion of a xenobiotic by activated sludge", in: Microorganisms in Industry and Environment. From scientific and industrial research to consumer products, Antonio Mendez-Vilas (ed.), World Scientific Publishing Co. Pte. Ltd., Singapore, 158-162 (2010).

Menezes, J.C., Ferreira, A.P., Rodrigues, L.O., Brás, L.P., Alves, T.P., "Chemometrics role within the PAT context: Examples from primary pharmaceutical manufacturing", in: *Comprehensive Chemometrics*, Vol. 4 (S. Brown, R. Tauler, B. Walczak, Editors), Elsevier, Oxford, pp. 313-357 (2010)

Sousa, S.A., Ramos, C.G., Feliciano, J.R., Leitão, J.H., "Bacterial type II PMIs: Exploitable bifunctional enzymes for biotechnological applications and the rational design of antimicrobials", in: *Biopolymers*, Magdy Elnazhar (Ed.), InTech, 285-302, 2010. (ISBN: 978-953-307-109-1)

2009

Cabrito T.R., M.C. Teixeira, I. Sá-Correia, "Global adaptive response and resistance to agricultural fungicides: lessons from yeast and phytopathogenic fungi" In: *Fungicides: Chemistry, Environmental Impact and Health Effects* (Columbus F, Ed), Nova Science Publishers, New York, USA, p. 228-253, 2009.

de Carvalho, C.C.C.R., "Biotransformation of terpenes by Fungi", in *Advances in Fungal Biotechnology* (Mahendra Rai, Editor), I.K. International Publishing House Pvt. Ltd, New Delhi, pp. 528-542 (2009)

Fernandes, P., "Enzymes in sugar industries", in *Enzymes in Food Processing: Fundamentals and Potential Applications* (Parmjit S. Panesar, Satwinder S. Marwaha, Harish Kumar, Editors), I.K. International Publishing House Pvt. Ltd, New Delhi, pp. 165-198 (2009)

Fialho A.M., Chakrabarty, A.M. "Host-Pathogen Interactions: From Infection to Drug Discovery", In: *Text Book on Molecular Biotechnology (Basics, Applications and Modern Methods)*, Varma A., Verma N. (eds), Amity University Uttar Pradesh, India, Chapter 37, 2009

Lourenço, N. D., Novais, J. M., Pinheiro, H. M., "Effect of the introduction of an anaerobic phase on the protozoa community of an SBR used for biodecolorization of an azo dye", in: *Current Research Topics in Applied Microbiology and Microbial Biotechnology*, Antonio Mendez-Vilas (ed.), World Scientific Publishing Co. Pte. Ltd., Singapore, 228-231 (2009).

Rodrigues, T. Cabrito, Miguel Nobre Parreira Cacho Teixeira, Isabel Sá-Correia Global adaptive response and resistance to agricultural fungicides: lessons from yeast and phytopathogenic fungi, , *Fungicides: Chemistry, Environmental Impact and Health Effects* , Nova Publishers, 2009

2008



Fernandes, P., Cabral, J.M.S., "Biocatalysis in Biphasic Systems: General", in: Organic synthesis with enzymes in non-aqueous media, G. Carrea, S. Riva (eds.), Wiley-VCH, Weinheim, pp. 191-209 (2008)

Fernandes, P., Cabral, J.M.S., "Immobilization – Microencapsulation", in: Advances in Fermentation Technology, A. Pandey, C. Larroche, C.R. Soccol, C.-G. Dussap (eds.), Asiatech Publishers, Inc., New Delhi, pp. 45-84 (2008)

Fialho A.M., Das Gupta T.K., Chakrabarty, A.M. "Promiscuous Drugs from Pathogenic Bacteria in the Post-Antibiotics Era", In: Patho-Biotechnology, Sleator R., Hill C. (eds), LANDES Bioscience, Austin, p. 145-162, 2008