

## References

- [1] Y. Jiang, J. Pogliano, D. R. Helinski and I. Konieczny, "ParE toxin encoded by the broad-host-range plasmid RK2 is an inhibitor of *Escherichia coli* gyrase", *Molecular Microbiology*, volume 44 Issue 4, 971- 979, (2002)
- [2] McAdams Harley H. and Shapiro Lucy. 2003, "A bacterial cell-cycle regulatory network operating in time and space", *Sciences*, 301, (5641):1874-1877, (2003)
- [3] Brazhnik Paul and Tyson John J., "Cell cycle control in bacteria and yeast: a case of convergent evolution", *Cell Cycle* 5 (5):522-529, (2006)
- [4] Goley Erin D., Iniesta Antonio A. and Shapiro Lucy, "Cell cycle regulation in *Caulobacter*: location, location, location", *Journal of Cell Science* 120: 3501-3507
- [5] Li Shenghua, *et al.*, "A quantitative study of the division cycle of *Caulobacter crescentus* stalked cells", *PLoS computational biology* 4 (1): e9
- [6] Li Shenghua, *et al.*, "Temporal controls of the asymmetric cell division cycle in *Caulobacter crescentus*", *PLoS computational biology* 5(8): e1000463, (2009)
- [7] Brown P., *et al.*, "Complex regulatory pathways mediate cell cycle progression in *Caulobacter crescentus*", *Advances in Microbial Physiology*, Volume 54, p. 1-101, Elsevier Press, R.K. Poole, editor (2009)
- [8] Li GL, Smith CS, Brun YV, Tang JX., "The elastic properties of the *Caulobacter crescentus* adhesive holdfast are dependent on oligomers of N-acetylglucosamine", *Journal of Bacteriology* 187(1) :257265, (2005)
- [9] Tsang PH, Li GL, Brun YV, Ben Freund L, Tang JX, "Adhesion of single bacterial cells in the micronewton range", *Proceedings of the National Academy of Sciences of the United States of America* 103(15): 5764-5768, (2006)
- [10] Ujjal Kumar Sur, "Nature's strongest glue: a potential alternative to commercial super glue", *Currents Science* 94 (12): 1563-1564, (2008)
- [11] Evelyn Toh, *et al.*, "Characterization of the *Caulobacter crescentus* Holdfast Polysaccharide Biosynthesis Pathway Reveals Significant Redundancy in the Initiating Glycosyltransferase and Polymerase Steps", *Journal of Bacteriology* 190(21) : 72197231, November 2008
- [12] Kurtz H.D., Smith Jr. and J. "The *Caulobacter crescentus* holdfast: identification of holdfast attachment complex genes", *FEMS Microbiology Letters* 116(2): 175-182, (1994)
- [13] Iddo Genuth and Lucille Fresco-Cohen, "Nature's Super Glue The Future of Things", Sunday, October 22, 2006
- [14] U. Alon, "An Introduction to System Biology", Chapman Hall/CRC, (2007)
- [15] T.S. Gardner *et al.*, "Construction of a genetic toggle switch in *Escherichia Coli*", *Nature*, Vol. 403, 20 January 2000

- [16] A. B. Gjuvslund *et al.*, "Threshold-dominated regulation hides genetic variation in gene expression networks", *BMC System Biology*, 1:57, (2007)
- [17] G. Nicolis, "Introduction to non linear science", Cambridge University Press, (1995)
- [18] <http://www.the-scientist.com/blog/display/55890>
- [19] <http://www.inrs.fr/inrs-pub/inrs>
- [20] P. Le Cloirec, "Les composés organiques volatils (COV) dans l'environnement", Ecole des Mines de Nantes, Editions Lavoisier, janvier 1998
- [21] <http://www.inrs.fr/inrs-pub/inrs01.nsf/inrs01>
- [22] Vinters HV, Galil KA, Lundie MJ, Kaufmann JC, "The histotoxicity of cyanoacrylates. A selective review", *Neuroradiology* 27(4): 279-91, (1985)
- [23] ] Jose Luis Martinez, "Environmental pollution by antibiotics and by antibiotic resistance determinants", *Environmental Pollution*, Volume 157, Issue 11, Pages 2893-2902, November 2009
- [24] A Fajardo, J F Linares and J L Martnez, "Towards an ecological approach to antibiotics and antibiotic resistance genes", *Clinical Microbiology and Infection* 15 Suppl 1():14-6 (2009)
- [25] "Can a new implant coating technique create a new six million dollar man?" Monday, June 29, 2009 in Physics and Chemistry
- [26] Valerie Olivier, Nathalie Faucheux and Pierre Hardouin, "Biomaterial challenges and approaches to stem cell use in bone reconstructive surgery", *Drug Discovery Today*, Volume 9, Issue 18,, Pages 803-811, 15 September 2004
- [27] Hing K.A. "Bone repair in the twenty-first century: biology, chemistry or engineering?", *Philos Transact A Math Phys Eng Sci.* 362(1825):2821-50. 2004 Dec 15
- [28] Albert B Lowenfels, MD, "Latest Advances in Surgical Adhesives and Sealants", *Medscape General Surgery*, 12/08/2006
- [29] Leggat, Peter A., Smith, Derek R., and Kedjarune, "Ureporin Surgical applications of cyanoacrylate adhesives: a review of toxicity", *ANZ Journal of Surgery*, 77 (4). pp. 209-213. (2007)
- [30] G. H. Wadhams and J. P. Armitage, "Making sense of it all: bacterial chemotaxis", *Nature Reviews*, Volume 5, 1024-1037, (2004)
- [31] T. W. Grebe and J. Stock, "Bacterial chemotaxis: The five sensors of a bacterium", *Current Biology*, 8 :R154-R157, (1998)
- [32] N. Mittal, E. O. Budrene, M. P. Brenner, and A. van Oudenaarden "Motility of *Escherichia coli* cells in clusters formed by chemotactic aggregation", *PNAS*, vol. 100, 13259-13263, (2003)

- [33] C. Fuqua, M. R. parsek, and E. P. Greenberg, "Regulation of gene expression by cell-to-cell communication: Acyl-homoserine lactone quorum sensing", Annual Reviews 35:439-68, (2001)
- [34] C. Fuqua and E. P. Greenberg, "Listening in on bacteria : Acyl-homoserine lactone signalling", Nature Reviews, volume 3, 685-695, (2002)
- [35] Sequence alignment realized using ClustalX 2.0.10.
- [36] *Escherichia coli* strain E69, AF104912 Genomic DNA
- [37] *Caulobacter crescentus* strain CB15, CP001340 Genomic DNA