

**H.C. PAUL Lee**  
**Department of Physics and Institute for Systems Biology and Bioinformatics**  
**National Central University, Chungli 320, Taiwan, ROC**  
**Homepage: (Google) HC Lee**

**All Refereed Publications (December 2007)**

**Journal Papers** (in antichronological order)

120. SG Kong, HD Chen, WL Fan, J Wigger, A Torda and HC Lee  
Genomes: at the edge of chaos with maximum information capacity  
[\[ArXiv:0708.1598v1 \[q-bio.GN\]\]](#) (2007, submitted)

119. J Wigger, SG Kong, HD Chen, WL Fan, HC Lee and A Torda  
Numerical models of genome growth ([PDF](#)) (2007, submitted)

118. Chi-Yuan Tseng, Jun-Ping Yu and HC Lee  
Integrity of H1 helix in prion protein revealed by molecular dynamic simulations to be especially vulnerable to changes in the relative orientation of H1 and its S1 flank  
[\[ArXiv:q-bio.BM/0603033 v1 \[q-bio.BM\]\]](#) (2007, submitted)

117. HC Lee  
Genome - The Blind Copier  
[Natural Science Newsletter \(NSC\) 18 \(2006\) 120-123.](#)

116. Zi-Hao Wang, MH Chang, JW Yang, JJ Sun, HC Lee and Bai-Chuang Shyu  
Intra-cortical complexities revealed in the primary somatosensory cortex of rats  
[Brain Research 1082 \(2006\) 102-114.](#)

115. Dominique Chu, Jonathan Rowe, and HC Lee  
"Evaluation of the Current Models for the Evolution of Bacterial DNA Uptake Signal Sequences"  
[Journal of Theoretical Biology 238 \(2006\) 157-166.](#)

114. Hong-Yi Bai, Chih-Yuan Tseng and HC Lee  
Identifying Biomagnetic Sources in the Brain by the Maximum Entropy Approach  
[AIP Conf. Proc. 803, 527-534 \(2005\)](#)

113. Dominique Chu, HC Lee and Tom Lenaerts  
"Emergence of Uptake Sequence in Bacterial DNA"  
[Artificial Life 11 \(2005\) 317-338.](#)

112. CH Chang, LC Hsieh, TY Chen, HD Chen, LF Luo and HC Lee  
"Shannon Information in Complete Genomes"  
[J. Bioinfo. & Comp. Biology 3 \(2005\) 587-608.](#)

111. HD Chen, CH Chang, LC Hsieh and HC Lee  
"Divergence and Shannon information in genomes"  
[Phys. Rev. Lett. 94 \(2005\) 178103.](#)

110. TY Chen, LC Hsieh and HC Lee  
"Shannon Information and Self-Similarity in Complete Genomes"  
[Computer Phys. Comm. 169 \(2005\) 218-221.](#)

109. Junjie Shen, Shuyu Zhang, Hoong-Chien Lee and Bailin Hao  
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[Genomics, Proteomics and Bioinformatics 2 \(2004\) 192-197.](#)

108. TY Chen, LC Hsieh, CH Chang, LF Luo, FM Jia nd HC Lee  
"Universal lengths in complete microbial genomes"  
[Int. J. Mod. Phys. B 18 \(2004\) 2448-2454.](#)

107. M. Bakkali, TY Chen, HC Lee and RJ Redfield  
"Evolutionary stability of uptake signal sequence in the Pasteurellaceae"  
[Proc. Nat. Acad. Science \(USA\) 101 \(2004\) 4513-4518.](#)
106. L.S. Hsieh, Ta-Yuan Chen, Chang-Heng Chang, Wen-Lan Fan and H.C. Lee  
"Universality in large-scale structure of complete genomes"  
[Genome Biology, 5 \(2004\) 7.](#)
105. L.F. Luo, L.C. Hsieh, F.M. Ji, M.W. Jia and H.C. Lee  
"Search for Evolution-Related-Oligonucleotides and Conservative Words in rRNA Sequences"  
[IEEE Proc. Comp. Sys. Bioinformatics, \(2003\) 468-469](#)
104. L.C. Hsieh, L.F. Luo and H.C. Lee  
"Evidence for Growth of Microbial Genomes by Short Segmental Duplications"  
[IEEE Proc. Comp. Sys. Bioinformatics, \(2003\) 474-475](#)
103. L.S. Hsieh, L.F. Luo and H.C. Lee  
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[Genome Biology, 4 \(2003\) 7.](#)
102. L.S. Hsieh, L.F. Luo and H.C. Lee  
"Genomes are large systems with small-system statistics: Segmental duplication in the growth of microbial genomes"  
[AAPPS Bulletin, 13 \(2003\) 22-27](#)
101. L.S. Hsieh, L.F. Luo, F.M. Ji and H.C. Lee  
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100. L.S. Hsieh and H.C. Lee  
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99. ZH Wang, CC Simon Lin and HC Lee  
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(End publications by HC Lee, March 2004)