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Ziada S., Braka A., Diharce J., Aci-Seche S. and Bonnet P. (2018)

### **Enhanced Molecular Dynamics Methods Applied to Drug Design Projects.**

Enhanced Molecular Dynamics Methods Applied to Drug Design Projects In "Computational Drug Discovery and Design", Methods in molecular biology (Clifton, N.J.), (2018) 1762, 403-426.

#### **Abstract**

Trapp S., Soubieux D., Lidove A., Esnault E., Lion A., Guillory V., Wacquiez A., Kut E., Quere P., Larcher T., Ledevin M., Nadan V., Camus-Bouclainville C. and Marc D. (2018)

### **Major contribution of the RNA-binding domain of NS1 in the pathogenicity and replication potential of an avian H7N1 influenza virus in chickens.**

Virology journal, (2018) 15, 55.

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Boiteux, S., Coste, F. and Castaing, B. (2017)

### **Repair of 8-oxo-7,8-dihydroguanine in prokaryotic and eukaryotic cells : Properties and biological roles of the Fpg and OGG1 DNA N-glycosylases**

Free Radical Biology and Medicine (2017) 107, 179-201

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### **Inhibition of PlexA1-mediated brain tumor growth and tumor-associated angiogenesis using a transmembrane domain targeting peptide**

Oncotarget (2016) 7 (36) 57851-57865 - doi : 10.18632/oncotarget.11072

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### **The nucleoid-associated protein HU enhances 8-oxoguanine base excision by the formamidopyrimidine-DNA glycosylase**

Biochemical Journal (2015) 471 (1) 13-23 - doi : 10.1042/BJ20150387

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D'Heygère F., Schwartz A., Coste F., Castaing B., Boudvillain M. (2015)

**ATP-dependent motor activity of the transcription termination factor Rho from Mycobacterium tuberculosis**

Nucleic Acids Research (2015) First published online : May 20, 2015 - doi : 10.1093/nar/gkv505

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**Monitoring RNA Unwinding by the Transcription Termination Factor Rho from Mycobacterium tuberculosis**

In "RNA Remodeling Proteins" (2015) vol. 1259, chap 18, 293-311 - doi : 10.1007/978-1-4939-2214-7\_18

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**Backbone assignment of the three dimers of HU from Escherichia coli at 293 K : EcHU $\alpha$ 2, EcHU $\beta$ 2 and EcHU $\alpha$  $\beta$**

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**The X-ray Structure of NccX from Cupriavidus metallidurans 31A Illustrates Potential Dangers of Detergent Solubilization When Generating and Interpreting Crystal Structures of Membrane Proteins**

The Journal of Biological Chemistry (2014) 289 (45) 31130-31172 - doi : 10.1074/jbc.M114.586537

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**Zinc finger oxidation of Fpg/Nei DNA glycosylases by 2-thioxanthine : biochemical and X-ray structural characterization**

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**Interaction of Ddc1 and RPA with single-stranded/double-stranded DNA junctions in yeast whole cell extracts : Proteolytic degradation of the large subunit of replication protein A in ddc1 $\Delta$  strains**

DNA Repair (2014) 22, 30-40 -doi : <http://dx.doi.org/10.1016/j.dnarep.2014.07.002>

***Abstract***

Arpel, A. Sawma, P. Spenle, C. Fritz, J. Meyer, L. Garnier, N. Velazquez-Quesada, I. Huszenet, T. Aci-Seche, S. Baumlin, N. Genest, M. Brasse, D. Hubert, P. Cremel, G. Orend, G. Laquerriere, P. Bagnard, D. (2014)

**Transmembrane domain targeting peptide antagonizing ErbB2/Neu inhibits breast tumor growth and metastasis**

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**Bile-mediated activation of the acrAB and tolC multidrug efflux genes occurs mainly through transcriptional derepression of ramA in Salmonella enterica serovar Typhimurium**

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Paquet F., Delalande O., Goffinont S., Culard F., Loth K., Asseline U., Castaing B. and Landon C. (2014)

**Model of a DNA-Protein Complex of the Architectural Monomeric Protein MC1 from Euryarchaea**

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**Interaction studies of muts and mutl with DNA containing the major cisplatin lesion and its mismatched counterpart under equilibrium and nonequilibrium conditions**

Biopolymers 99 (9) 636-647

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Réhault-Godbert S., Labas V., Helloin E., Hervé-Grépinet V., Slugocki C., Berges M., Bourin M.C., Brionne A., Poirier J.C., Gautron J., Coste F. and Nys Y. (2013)

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**The orientation of the C-terminal domain of the *Saccharomyces cerevisiae* Rap1 protein is determined by its binding to DNA**

Nucleic Acids Res. 40 (7) 3197-3207

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**Binding of the RamR Repressor to Wild-Type and Mutated Promoters of the ramA Gene Involved in Efflux-Mediated Multidrug Resistance in Salmonella enterica Serovar Typhimurium**

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**Ligand entry pathways in the ligand binding domain of PPAR gamma receptor**

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**The Drosophila peptidoglycan-recognition protein LF interacts with peptidoglycan-recognition protein LC to downregulate the Imd pathway**

EMBO Rep. 12 (4) 327-33

Le Bihan YV, Izquierdo MA, Coste F, Aller P, Culard F, Gehrke TH, Essalhi K, Carell T, Castaing B. (2011)

**5-Hydroxy-5-methylhydantoin DNA lesion, a molecular trap for DNA glycosylases**

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**An alternative flexible conformation of the E. coli HU $\beta$ (2) protein : structural, dynamics, and functional aspects.**

European Biophysics Journal 40 (2) 117-129

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## Refined solution structure and backbone dynamics of the archaeal MC1 protein.

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## Comparing native and irradiated E. coli lactose repressor-operator complex by molecular dynamics simulation.

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Toxicology in Vitro 23(4), 697-703

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J. Biol. Chem. 284, 28687-28697.

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**Insight into the recognition patterns of the ErbB receptor family transmembrane domains : heterodimerization models through MD search**

European Biophysics Journal, 37 (6) 851-864.

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**Oxidation-sensitive residues mediate the DNA bending abilities of the architectural MC1 protein**

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**Methionine sulfoxime induces a decrease in the tryptophan level of mouse brain**

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**Location and base selectivity on fragmentation of brominated oligodeoxynucleotides**

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