AU Le Padellec, A, Moretto-Capelle, P, Richard-Viard, M, Champeaux, JP, Cafarelli, P

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TI Ionization and fragmentation of DNA, RNA bases induced by proton impact - art. no. 012007 SO RADIATION DAMAGE IN BIOMOLECULAR SYSTEMS

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ID MOLECULES; ELECTRONS; COLLISIONS; RADIATION; THYMIDINE; SPECTRUM; BREAKS; IONS

AB We present recent results obtained in the Toulouse's group that deal with proton to base and nucleoside interactions. We stress the weakness of the sugar part in the nucleoside, i.e. the uridine molecule under scrutiny. Since some parts of the fragmentation spectrum correspond to the fragmentation of a 'pure' uracil molecule, i.e. the RNA base, an 'additivity rule' seems to prevail for the nucleoside, something that still has to be confirmed. Moreover, some results that deal with the secondary electronic emission from uracil are also displayed.

C1 [Le Padellec, A.; Moretto-Capelle, P.; Richard-Viard, M.; Champeaux, J. P.; Cafarelli, P.] Univ Toulouse, CNRS, UMR 5589, Lab Collis Agregats React, F-31062 Toulouse 9, France.

RP Le Padellec, A, Univ Toulouse, CNRS, UMR 5589, Lab Collis Agregats React, Bat 3R1 B4,118 Route Narbonne, F-31062 Toulouse 9, France.

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