THE SIGNATURES OF ENERGY-TRANSDUCING ORGANIC MOLECULES IN METEORITES*

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The interiors of four meteorites (ordinary chondrites) of different origin and location were delved by comprehensive chemical, chromatographic and spectroscopic analyses. The indelible signatures of several native bio-organic molecules, namely, oxygenated dibenzo-á-pyrones (DBPs), their aminoacyl conjugates (DCPs), and polyprenylbenzoquinones (PBQs), were observed in all of them. These compounds were earlier reported in Shilajit as transducers of energy (ATP) in animal (including human) cells. The occurrence of these molecules in meteorites, however, eluded the notice of previous researchers of this subject. The indigeneity of the now identified bio-molecules, conceivably of abiotic origin, in meteorites is a significant phenomenon from the point of view of emergence of life on Earth.