

Profiles of Amino Acids and Biogenic Amines in the Plasma of Cri-du-Chat Patients from Brazil

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Keywords

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Methods

The participants in this study were Brazilian families of patients with CDGS who were recruited by the Non-Governmental Organization, called The Núcleo de Aconselhamento e Pesquisa Cri Du Chat (NAPCDC), located in São Caetano do Sul-SP. The NAPCDC is composed of a group of 400 families from throughout Brazilian territory. The CDGS patients of the NAPCDC are of both genders, with ages ranging from newborn to adult.

The blood plasma samples were collected from people of both genders with age between 1 and 38 years old. After collecting 36 samples were analyzed by ultra liquid chromatography coupled to a mass spectrometer, and 33 metabolites from plasma. The averages these data were compared between the following groups: the Cri Du Chat patient and the control groups, using the Wilcoxon's statistic test, besides a chemometric approach were applied in data to interpret the results from the biochemical point of view.