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EXPLORATION GEOCHEMISTRY: RETROSPECT AND PROSPECT

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Abstract: Milestones marking the development of exploration geochemistry from 1940s to 1990s are described. Study of various types of **dispersion patterns** generated from ore deposits and tracking back along the dispersion pathways in different kind of surface materials in order to search for ore deposits are the basic principles and methodology established during its 60years development. The initiation of regional and national geochemical mapping activities, from the 1970s, especially the RGNR Project of China have accumulated tremendous amount of high quality element data covering millions of km^2. More broad geochemical patterns other than the local **dispersion patterns** around ore deposits are found in nature during these mapping activities. They are the **distribution patterns** of elements formed during the original heterogeneity of earth formation and modified through the long span of earth evolution. This discovery will make a new breakthrough in the basic principles and methodology of exploration geochemistry and open up new fields of application in mineral potential assessment, mineral exploration and environment study.

Key words: Exploration Geochemistry, dispersion pattern, distribution pattern, geochemical block

矿勘携手　互补双赢

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