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differentiation follows determination as the cell elaborates a cell specific developmental program differentiation results in the presence of cell types that have clear cut identities such as muscle cells nerve cells and skin cells in biology determination is the process of matching a specimen of an organism to a known taxon for example identifying a plant the term is also used in cellular biology where it means the act of the differentiation of stem cells becoming fixed 1 biological determinism refers to the idea that all human behavior is innate determined by genes brain size or other biological attributes this theory stands in contrast to the notion that human behavior is determined by culture or other social forces biological determinism is the idea that biological attributes such as one's genes dictate one's destiny and environmental social and cultural factors play no role in shaping an individual biological determinism has been used to uphold white supremacy and justify racial gender and sexual discrimination as well as other biases against cell determination is the process by which a cell becomes committed to a specific fate this crucial process occurs during embryonic

development cell determination plays a vital role in shaping the structure and function of multicellular organisms in this article we try to make sense of determination claims in developmental biology adopting a manipulationist approach we shall first argue that the notion of developmental determinant is causal biological determinism predates the formation of biology as a science nine teenth century specifically it predates the disciplines of evolution and genetics twentieth century this review highlights the development of highly sensitive detection techniques applied to the determination of thallium in biological samples with or without pretreatment based on the literature compiled in analytical abstracts from 1990 in this review chromatographic determination methods for aldehydes are summarized mainly according to the recent reports with the analytical techniques including the effective extraction and chemical derivatization using positive ion chemical ionization mass fragmentography after separation on fused silica capillary columns histamine extracted from biological fluids can be assayed down to 100 fmol sample a highly efficient specific and reliable approach to simultaneously quantify acac and d β ohb in biological specimens is lacking due to challenges of separating the structural isomers and enantiomers of β ohb and to the chemical instability of acac the development of reliable analytical methods for both characterization and quantification of nanomaterials in various matrices is essential this review summarized the recent trends in analytical methodologies for the characterization and determination of nanoparticles in biological matrices despite rapid progress in cryo em technology in the past decade 1 many biological macromolecules of interest are still too

small to allow reliable structure determination to limit the damage that determination science cell biology the commitment of a cell to a particular path of differentiation even though there may be no morphological features that reveal this determination generally irreversible but in the case of imaginal discs of drosophila that are maintained by serial passage transdetermination may occur a simple robust and reproducible hplc method has been developed and validated for iron determination in biological matrices it is based on chelation with desferrioxamine dfo and the measurement of the chelate ferrioxamine fo we report a simple enzymatic end point method for determining nitrate in serum and urine with use of nitrate reductase from aspergillus sp ec 1 6 6 2 the decrease in absorbance at 340 nm as a result of the oxidation of beta nadph is measured biological theories of crime which encompass a lineage of thinking dating to the 19th century argue that whether or not people commit crimes depends on their biological nature some individuals are predisposed to crime because of genetic hormonal or neurological factors that may be inherited present at birth or acquired through accident biological determinism the idea that most human characteristics physical and mental are determined at conception by hereditary factors passed from parent to offspring biological determinism was closely associated with the eugenics movement of the late 19th and early 20th centuries this level of sensitivity allows sex determination in specimens with small amounts of genetic material the method can be used for noninvasive prenatal diagnostics of sex linked congenital diseases and in forensic medical examination compound eyes formation in decapod crustaceans occurs after the nauplius stage however

the key genes and regulatory mechanisms of compound eye development during crustacean embryonic development have not yet been clarified in this study rna seq was used to investigate the gene expression profiles of neocaridina denticulata sinensis from nauplius to zoea stage based on rna seq data

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