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the model demonstrates the core assumptions for making a valid causal inference between a phenotype and disease the three assumptions are 1 genotype is independent of the confounder 2 genotype is associated with phenotype 3 genotype is independent of disease conditioning on phenotype and confounder in this paper we examine two sciences genetics genomics which we argue has been integral in our understandings of ourselves and the world around us and proteomics a post genomics science which has had to date less social impact the postgenomic era is characterized by a paradigm shift in which new genetic research has upended many dogmas about the way in which genes influence phenotypes and the way in which the term gene itself is defined genomic information over the last 20 years has dramatically expanded the list of known globins demonstrating their existence in a limited number of archaeal genomes a majority of bacterial genomes and an overwhelming majority of eukaryote genomes in conclusion the availability of fully sequenced genomes and the enormous amount of data on the co expression of mrnas opens new ways to analyse protein function the new methods establish technical advances such as the development of molecular cloning sanger sequencing pcr and oligonucleotide microarrays are key to our current capacity to sequence annotate and study complete organismal genomes abstract the identity and the existence of genes has been challenged by postgenomic discoveries specifically the consideration of molecular and cellular phenomena in which genes are embedded has proved relevant for their understanding the post genomics era has brought about new omics biotechnologies such as proteomics and metabolomics as well as their novel applications to personal genomics and the quantified self these advances are now also catalyzing other and newer post genomics innovations leading to convergences between the postgenomic era has seen rapid shifts in research methodology funding scientific labor and disciplinary structures postgenomics is transforming our understanding of disease and health our environment and the categories of race class and gender metagenomics the genomic analysis of microbial populations

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it is possible that evolutionary development occurred by increasing complexity of regulation processes at the level of rna and protein molecules instead of simple increase in gene number so investigation of proteins and protein complexes became important fields of our post genomic era

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proteomics is the study of where each protein is located in a cell when the protein is present and for how long and with which other proteins it is interacting said brian chait proteomics means looking at many events at the same time and connecting them he added

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developments such as these have led many to refer to the present as a postgenomic age richardson stevens 2015 the goal of this entry is to look at this constantly developing space of genomic and postgenomic research and outline some of the central philosophical issues it raises

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