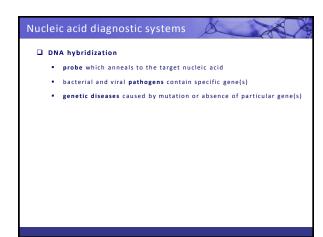
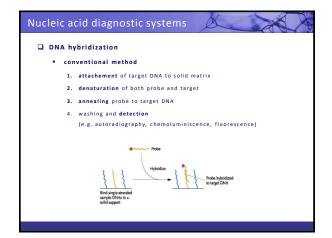
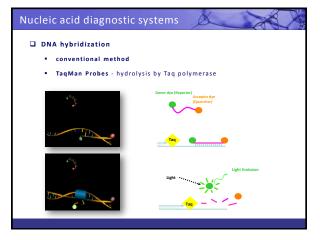
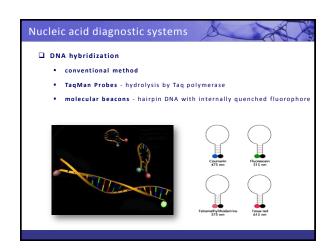


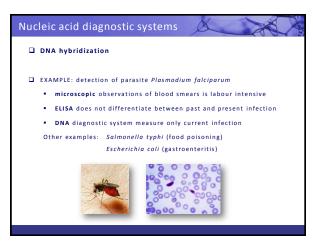
Nucleic acid diagnostic systems most common object for testing is DNA, in some cases RNA areas of medical applications: prenatal diagnostics: non-invasive detection of fetal diseases (e.g., Down syndrome, cystic fibrosis) genetic testing: high throughput testing for genetic disorders (e.g., SNPs markers, insertions, deletions) infectious diseases: pathogen identification and drug resistance (e.g., HIV, HBV, HCV) oncology: early diagnosis of cancer (e.g., circulating tumor DNA, ratinoblastoma gene) transplantation medicine: non-invasive detection of organ rejection (e.g., urine testing for kidney rejection, human leukocyte antigen) pharmacogenomics: influence of genetic variation on drug response DNA typing: fingerprint of genotypic traits (paternity, crime suspects, ancestry)

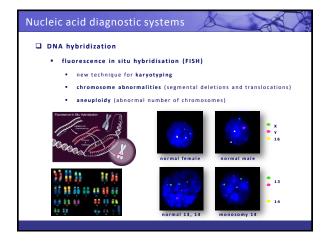


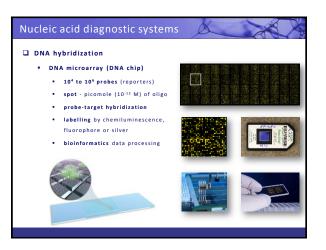




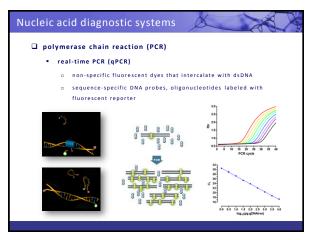


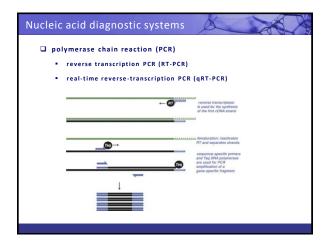


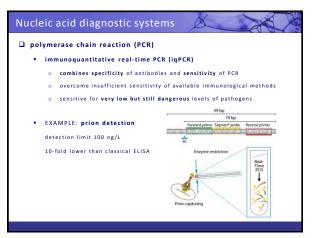


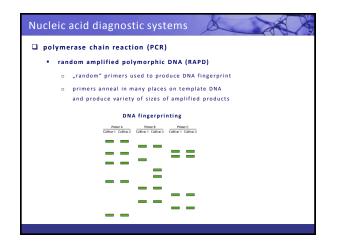


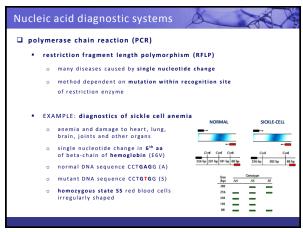


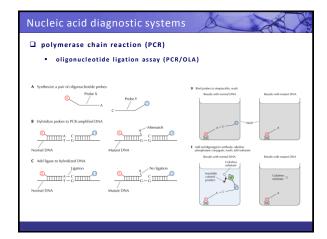


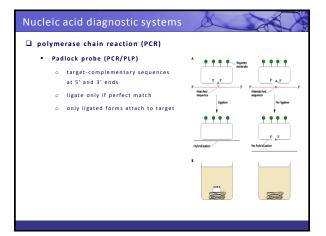


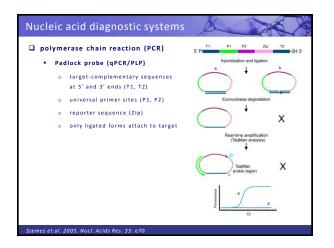


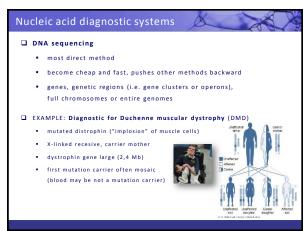


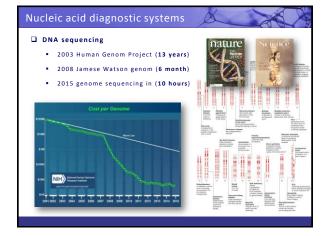


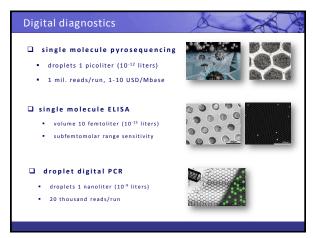


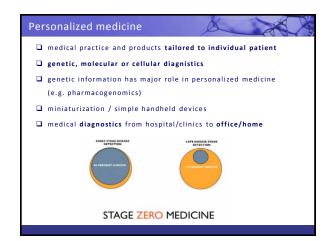


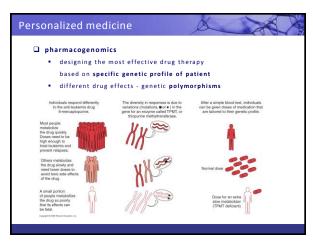


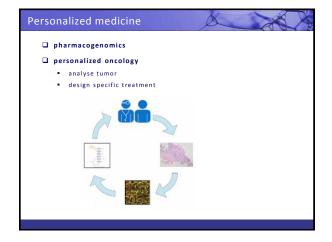


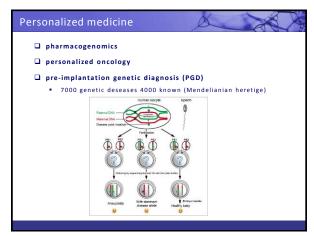


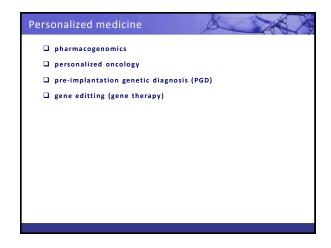












Personalized medicine	N.
 pharmacogenomics personalized oncology pre-implantation genetic diagnosis (PGD) gene editting (gene therapy) WHAT NEXT? 	