

o nv rng d oct gt y v i g v v c f  
ogv f en f i v g g tge od c v rt  
c f o tg cee tcvg f ci gev c f  
f ci v e o fcn v g e c o nge nct f ci  
o nv cegvgf crrt ce v f gc g fgvgev g  
v g cd n v v o v t f gc g rt itg c f  
c f o tg g gev g r dn e gcnv vtcvgi g

**Keywords:**

... da d acc ea ... ca ...

• **Autoimmune disease markers:** I ... d d ... c ... a ... a ... b d ... a ... a c d ... d a ... a d ... a a ... a ... d ... a ... c a ... a ... d a ... a d ...

4. Point-of-Care Testing

... d ... -ca (POC). ... ca ... a ad ... b ... d a ... c ... d ... ad ... a ab ... a ... a d ... d ... b ... c ... a ... a d e ... ab ... ac ... a ... d a ... a d ... a ... a d ... c ... d a ...

• **Lateral flow assays:** O ... d ... POC. ... a a ... a d ... a d a c ... d ... a c ... a / ... a d ... c ... HIV a d ... a a ...

5. Integration with Genomics and Proteomics

... a ... / ... c a d ... c a ... d da ... c ... d ... a d ... d ... a c a ... [10]. B ... b ... ca da a / ... c a d ... c ... a ... a c ... ca d ... b ... a ... d ... a d ... a ... a d d ... a ... d ... a ...

6. AI and Machine Learning

A ... c (AI) a d ... ac ... a ... a ... b ... a c ... da a a a ... a d ... a ... c ... ca d ... a ... a d c ... a ... da a ... acc ... ac ... ca a a ... a d a d ... d ... d ... d ... a ... b a ... a d ...

7. Challenges and Future Directions

D ... ad a c ... a ... c a ... d ... d ... a d ... c ...

• **Standardization and quality control:** E ... c ... a d ... ab ... a ... d ... ca ... a d ab ... a ... a ... a ... ca ...

• **Cross-Reactivity and false positives/negatives:** I ... d ... c ... d d ... / ... ac ... a d ... d c a ...

• **Access and affordability:** M a ... ad a c d ... ca ... acc ... b ... a d a ... dab ... a ... c ... a ... / ... c ... a ... b a ... a ...

Conclusion

A d a c ... a ... ca ... a c d ... d ... c ... a d ... d a ... d ... a ... b ... c ... a ... c ... a d ac ... a ...

b ... d ... a ... a ... O ... ac a d ... c ... ca ... d ... a ... c d ... add ... ca ... a d ... ca ... ca ... d ... a ... c ... a d ... acc ... b ... Ad a c ... a ... ca ... a c d ... ab ... d ... c a d ... a a / d ... a ... d ... a d ... a d ... a d ... c ... a a ... a d ... a d ... a d ... a b c ... a c ... d a ... c ... d ... a ... a d ... a d ... d c ... a ... a ... ca ... / ... d a ... c ... da ... c ... a ... a a ... a d ... a ... d d ... a d ... c ... a d ... a a ... a d a c ... a d ... d ... a d acc ... a d a ... b ... a ... b ... c ... a ... b ... ab ... b ... a c a d ... b a ... A ... a c ... c ... ca ... c ... ca d ... ca ... a / ... ab ... c ... ba ... c ... d a ... a d ... a c ... a ... c ... a ... a ... d ... d ... d ... c ... a ... d ... d ... c ... a ... b a ... d ... a d ... c ... a d ...

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