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Biological Agents with Potential for Bioterrorism

Department of Biological Sciences, King Faisal University, Saudi Arabia

Pe ec i e

Bi gica ea n age e eide ied ing he C d Wa ba ed n he f ing cha ac e i ic : ah geici f h an, ani a , an ; abii ca e di abii dea h; abii and infec i a a ice ae ; and abii be ea i and ic d ced and ea ied in ii deie em. O he e ie f bi gica age , ch a he ea i e ea f medica e en i ea en, and he ibii f ha he e e a , ha e beeninc ded [1]. Te Cene f Di ea e C n and P e en i n (CDC) in he U ied S a e ec gni ed ge , i e, and i n ha igh be ed a ea n. Te ca ied he in h ee ca e in 2002: A, B, and C, ba ed n hei ea e f ead, e ei f ine d ced, and abii ca e ai. Infec i and c nagi bi gica age , infec i b n gene a c nagi bi gica age , and i n if nei he a e infec i and c nagi bi gica age ca ied a Ca eg A ed he highe h ea bica and nai a ec i. Tie e ec age and i n, a e a i e ece n ca i ca i n, i ini a he ca eg A ca i ca i n [2]. O he age , ch a na a cc ing ah gen, ca e di ea e ih a medi i he gene a bic. Te inc de ne and e- e ging infec i di ea e and a e ne ha ea di ib e. Gene ic chan e , n he he hand, c d a e he e ei en, c ea e n a cinica , in ea e hei ei ance ea en and acci nai n, and e enchange hei an ibii h ange. S n he ic bi g me h d c d be ed a ge ne ica e ai n; ch a ci i ie c d be c n ide ed da - e e ea ch.

Te 1918 S. ani h in en a and e ic i , f ea e, a eb i in 2005, and he i i a n he ied e 20 ea ag. In 2001, an i n - d a gene a added he e. ia ge n ne, ending a e acci nai n ine ec i e, and ini a ech g c d be a ied he di ea e. he i ha ca e a [3]. Te ece n he i f he e inc h e i e e a a e ende ha he a i a be eb i , and ha he e ic i n in ace ee n he i e f ng, ine e ni e, and g ba a ai ab e ech n gie need be e i i ed. Ti ibii ha a ai ed he e i n f he he e ea ch nding h d be e ic ed e en ef ed, bica i n he n he i f ha i g ea. A h gh bi e i che ica c d be ead in a ai e f a , he ae a ach d ie . ide he e. De ending n he n be f e n e ed, he a e age n be f e e h ac i e he di ea e f ne ic indi id a and he di ea e gene a i n ei di h an, c nagi age n c d e ina a ge n be f ec nd and a e gene a i n ca e. F ea e, he R0 f ne ni c ag ei h gh be a nd, hi e he R0 f a i h gh be a nd. Te n be fin ance f n-c nagi infec i n, cha in haa i na n ha , i a e nie de e ined b he ie f he , ai ne ed and he iing f -e ea ibi ic h a i. Ae ied age n a e i he a dange ha a d, b afe and ec i a e a in an. F d and a e ec i a ea ig ni can a ec f ina e e ni n. A ib d- ba ed a a e being de e ed a ne a ache f dee ing i n in f d. Ra id diag e bec me e en ei an in he e en fabi e i a ac , de b h hea h and ec i c nce n. Diag ic ca abii ie ha e ad anced ig ni can ince he 2001 an h a e e. Te eed and c f e encing ca abii ie ha e bee me f he ig ni can b ea h gh in he a decade [4].

Se encing eh d ha e g n e e nie, e abe, and i ed ha high e nii e and ee ci e PCR-ba ed e em c mbined ih c ne a a e e aai n ced e. Hea h-ca e aci ine a nd he d na na e fa e dg en and e nd fa e f indi id a ca e b ea de eci n ha n edab e aien- ide diag n ic and e encing ha a e di ec nec ed ia c d-ba ed ne . A F anci e a a e ni fa , ca idge-ba ed a a ha bee n de e ed f e a he in f ca e. T diag e Eb a and La a i infec i n, a me h d ha c mbine e nii e ic he e ech g de ec b h an ib die and an ige n i a ai ab e.

A h gh diag ic ELISA e f an ha an ib die a e a ai ab e, a c ac a ach ha c mbine a e ce ing and PCR a i ca i n ca . ide a e in ab 90 in e. A eed and e nii ea ach f de ecing a i ha bee n de e ed f ea he in f ca e. I i ba ed n an ib d i n c n f an a ica ced e i n n ai an gi e e in a nd 45 in e [5]. Diag ice ec n ic c . n he he hand, i i c n ide ed a ic an de ec ie a ide if a and he ia age n .

Franz James, Department of Biological Sciences, King Faisal University, Saudi Arabia, E-mail: james.fz@gmail.com

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