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Improving Morale

47. Supervisors/team leaders in my work unit support employee development.	64
48. My supervisor/team leader listens to what I have to say.	74
49. My supervisor/team leader treats me with respect.	80
50. In the last six months, my supervisor/team leader has talked with me about my performance.	77
51. I have trust and confidence in my supervisor.	66
52. Overall, how good a job do you feel is being done by your immediate supervisor/team leader?	68
Leadership	
53. In my organization, leaders generate high levels of motivation and commitment in the workforce.	41
54. My organization's leaders maintain high standards of honesty and integrity.	54
55. Managers/supervisors/team leaders work well with employees of different backgrounds.	63
56. Managers communicate the goals and priorities of the organization.	61
57. Managers review and evaluate the organization's progress toward meeting its goals and objectives.	61
58. Managers promote communication among different work units (for example, about projects, goals, needed resources).	52
59. Managers support collaboration across work units to accomplish work objectives.	56
60. Overall, how good a job do you feel is being done by the manager directly above your immediate supervisor/team leader?	57
61. I have a high level of respect for my organization's senior leaders.	52
62. Senior leaders demonstrate support for Work/Life programs.	54
My Satisfaction	
63. How satisfied are you with your involvement in decisions that affect your work?	50
64. How satisfied are you with the information you receive from management on what's going on in your organization?	48
65. How satisfied are you with the recognition you receive for doing a good job?	45
66. How satisfied are you with the policies and practices of your senior leaders?	41
67. How satisfied are you with your opportunity to get a better job in your organization?	34
68. How satisfied are you with the training you receive for your present job?	50
69. Considering everything, how satisfied are you with your job?	65
70. Considering everything, how satisfied are you with your pay?	54
71. Considering everything, how satisfied are you with your organization?	56
Work/Life Programs	
79 - 84. How satisfied are you with the following Work/Life programs in your agency?	
79. Telework	76
80. Alternative Work Schedules (AWS)	89
81. Health and Wellness Programs (for example, exercise, medical screening, quit smoking programs)	30
82. Employee Assistance Program (EAP)	40
83. Child Care Programs (for example, daycare, parenting classes, parenting support groups)	35
84. Elder Care Programs (for example, support groups, speakers)	30
85 - 97. How important is the following to you?	Percent Important
85. Recognition (verbal)	82
86. Recognition (award or gift)	67
87. Recognition (financial)	44
88. Forum for your opinion to be heard.	85
89. Knowing how your work contributes to organizational goals.	91
90. Training opportunities.	92
91. Professional growth.	79
92. Higher Salary.	64
93. Wellness programs (for example exercise classes, quit smoking programs, fitness contests)	71
94. Child Care Programs (for example, daycare, parenting classes, parenting support groups)	61
95. Elder Care Programs (for example, support groups, speakers)	60
96. Fun at work (Friendly competitions, Potluck luncheons)	72
97. Availability/Transparency of Management	97



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IN SILICO PREDICTION OF IMMUNOGENIC T CELL EPITOPES OF LEISHMANIA DONOVANI GP63 PROTEIN: AN ALTERNATIVE APPROACH FOR ANTI-PARASITE VACCINE DEVELOPMENT

Mona E. E. Elfaki^{1,4}, Anne S De Groot^{2,3}, Andres H Gutierrez², Brema M Younis¹, Rayan Tassone³, Francis Terry³, Ahmed M Musa¹, Ahmed M Elhassan¹ and Eltahir A G Khalil¹

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Visceral leishmaniasis (VL) is a major parasitic childhood disease in sub-Saharan Africa. Expensive and toxic anti-leishmanial drugs are current control methods. Safe, effective and cheap vaccines are potentially powerful strategies to control VL. Traditional vaccine development techniques have failed to deliver an effective vaccine. Leishmania vaccine development may benefit from immunoinformatics tools. This paper describes an improved in silico prediction method for immunogenic Leishmania donovani GP63 protein T cell epitopes as VL candidate vaccines. Using the EpiMatrix algorithm, the amino acid sequence of Leishmania donovani GP63 protein (GenBank accession: ACT31401) was screened for putative T cell cluster epitopes that would bind to the most common HLA (human leukocyte antigen) class II alleles among at-risk populations. Nine epitopes were initially identified using EpiMatrix. Based on cluster score, number of EpiMatrix hits, hydrophobicity, and number of EpiBars (an EpiBar is a 9 amino acid frame predicted to bind at least 4 different HLA molecules), four peptides (P1-P4) were selected

for synthesis. In a proof of concept study, blood samples from consenting healthy, leishmanin skin test (LST) reactive and non-reactive volunteers were stimulated and IFN- γ (interferon gamma) IL-4 (interleukin 4), and IL-10 were measured. IFN- γ and IL-4 levels were similar in both groups. However, mean IL-10 levels were significantly reduced in LST reactive individuals. To evaluate whether cross-reactivity with the human genome (HG), the human gut microbiome (HM) and common human pathogens (HP) was responsible for these differences, the sequences of the evaluated peptides were screened using JanusMatrix. One of the peptides (P1), which increased IL-10 in the LST reactive volunteers, showed high cross-reactivity with HG, suggesting that P1 might induce a regulatory immune response in humans. In conclusion, immunoinformatics tools provide a promising alternative approach for anti-parasite vaccine development. Data obtained can be used in the development of epitope-based Leishmania vaccine.

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the specimen (mm) d : thickness of the specimen (mm) The structural strain () is a nominal nominal nominal fractional change in the outer length The stiffness of a given material is calculated using the following equation: Equation (3) p = load, (N) Strength (N/m) 8 A beam may fail in any of the following forms: Lighting can fail when producing extreme fibers. In the compression rays of long fibers act as those of an adjacent ND column fail to brace, members of the web funds can occur an excessive stress of the cluster parts The perc in tag ero r fo r s te e l l s 60 % to 75 %. Do not waste time get your personalized essay at à € 2016 7/23/2019 Flexural Test Laboratory or Bending Report 1/90BJECTIVETO determine the value of the flexural force (), the maximum flexural strain () and the flexuralmodulus (E) of materials. INTRODUCTIONThis method of mechanical testing measures the behavior of materials subjected to simple loads. Equation (1) where: A = deflection, (mm) P = load, (N) L = beam length, (mm) E = elasticity module (N/mm) = section inertia time on the neutral axis, (mm) 7 Case 2: Central deflection of a simple beam with concentrated loads, each equal to P, at third brass point (Ref. Metric testing offers a 3 and 4-point accmprehensive range of bending, displacement systems and dedicated software to suit all applicable materials. 7/23/2019 Flexural Test Laboratory or Bending Report 8/9C or n c l u s i o n s The system works by using metal folding rods of variable thickness and stiffness to deform the test specimen. This definition of bending is illustrated below in Figure 1. Case 1: Central deflection of a simple beam with freely supported ends and concentrated load, P, in the middle of the panel (Ref. In the maximum deflection, the percentage of experimentalresult error for aluminium is 65% to 70%. "It is said that a piece is bending if the forces act on a piece of material in such a way that they tend to induce compressive tensions on a part of a cross section of the piece and tensions on the remaining part" (Ref. Loading block5. If you are trying to access this site using a private/proxy anonymous network, please deactivate that and try to access the site again. A and C. What is the percentage error (%) between the results of the experiment with theory? Show all measurements of the beams. Longitude of the beam L[mm]Water of the beam Thickness of the beamAluminum 150.04 l l l l ams ne eta ruc le nos sadazillitu senoicauce sal euqrop ecudorp es rorre etse ed asuac anU .29/4 saciF@Áneb o selbixelf sabeurp ed oirotarobal ed emrofnl 9102/32/707 69.1 49.42 00.051 leet507 60.2 .zah .zah le ne aseaupmi adad n³Ácautis al ed n³Árednepep euq n³Áices ed sedadeiporp sarto noc otnuj dadicitsale ed olud³Am ,aicreni ed otnemom le odnazillitu raluciae edeup es A, n³Áixelfed al lairetam IE E .ht ed lanocroporp etimÁl led setnA, n³Áicimifed al y n³Áixelf ed s©Arise le ertne n³Áicaler al ranimretded arap ,rarit o rajupme ed raqul ne ,lairetam nu ed n³Áixelf al nacilpmi n³Áixelf ed sabeurp sal. J ,treblig s e c n e r e f e R . oimimullA ed n³Áicanicni al adiuicni , selairetam sonugla arap ocits;Ále ognar led etrap anu arap adll;Áv se olos ekooH ed yel al .siÁmedA ,osnetni odom le raborp ed selicÁfid res nedeur euq selairetam raulave arap etnemallpma nazillitu es n³Áibmat n³Áixelf ed sabeurp saL. n³Áixelf ed sabeurp sicta acim;Árec ed sasodlab ,CRG selenap ,aredam ed sateugiv , otercnoc ed sagiv ,selarutcurtse sleetS sol ed n³Ánoc si;Ám abeurp al euq ed oditnes le ne ocipÁt olpmeje nu se n³Áaiccurtsnoc al ed airtsudni aL.)2 (y)1(senoicauce sal ne n³Áicaunitnoc a naremune es senumoc sosac sod arap n³Áixelfed ed senoicauce saL. n³Áixelfed ed avruC ,feR(setropos sol rop o sagrac saL rop selanidutignol sazreuf necudni es on y sagrac sal ed onalp la salelarap nos senoicaivsed sal ,n³Áisrot al ecudorp es o ,aÁrtemis ed onalp nu ne na³Áitca sagrac sal :arenam etneiuigis al ed nacilpa es sagrac sal euq enopus es ,senoisnet sal rarapes araP .L .selairetaM ed acin;ÁceM ed oirotarobal ed launaM 073 EC/EAM. "n³Áixelfni ed abeurP 8 olutÁpaC" .artseum ed sabeurp sal y n³Áicaraperp al ed dadilicaf al se sotnup sert ed n³Áixelf ed abeurp anu ed ajatnev lapicnirp aL .de t set l ai r ajerap al rop B ELD NAH Y L I SAE SD AOL Y SNO I TC EL

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