-is set if i this is a start of the set of the

the bulkers allo I writing a block Deft. Genetics, a University of Wisconsin, weich i miterria wit no theirersb et fold on a suiter, 6, Wis. au leeniucht statieest erwen7 meut opt lee**n March 21, 1949.** Wurd du Varu ισειστόσομονο μα ώτις είδιξι είειε έκει το το χύπω αναριστικού που το διατικό το Dear Jacques, I all the hor the horizon of the new third and be the owner where he are I I think that I can clarify some of my remarks on lactase adaptation. during equivality with the transmission of the state of the $Lac_1 = (e.g. Y-87, or better, stocks with less mutabile allels) does adapt$ esti-estate bal elditorrana sace didre selevarant, i sinalar to a very slight extent on lactose to form galactosidase. The activity is enders of solid the mil fue dith gui sublimite the presses of the order of 1% of wild type, either in intact cells or in extracts. a Green Look a easy alow on toutte con the as reinfected by On galactose, this mutant does about as well as on lactose, perhaps reaching loussant need even en .nices cine, egu e does a slightly lower level of activity. On butyl galactoside, however, lactase und al scheholiteiri sidion 🦷 🦾 di du lit du ressicu (bil du l'i is produced at practically the level of wild type, as shown by fermehtation ui ener d'éterrer eux exeller jériér maner l'a transport d'étere un of lactose or splitting of o-NPG. no to jefoine spine îsnot 그는 이번 이상을 하는 방법이 있다. Recently, a mutant was obtained which thoows a very disturbing element any rent covil e af foores fire it is seen to be all discussions in force into the situation. I do not know its genetic relationships, but call it. welling to yourgelf, hlashed to see for the moment, Lac - . This mutant does not ferment glucose, gx2actose or electropy and lactose only very slowly. With appropriate selective media, electropy and lactose only very slowly. With appropriate selective media, suppressor mutations permitting the fermentation either of maltose, or .entry and of the lateres so ingradiant of the lactose or both are obtained, but leaving the mutant still glucose-negative to enclosedition fo educates a eliteration dour great distance and galactose-slow. So here we have a mutant which ferments lactose much te and the second sets at the second second more rapidly (when grown on lactose) than either glucose or galactose or ned swig encar reavel idetowal on hermon both. It produces an adaptive galactosidase (i.e. measured on o-NPG) which - Dues to First - Mains - Least - Addition - First - Content - Mains Lo d'anneonach so far seems to have the same general character as wild type. However, a nie moismie benebrue (n. jna sy knake ee selee juiee, noom ee sijn preliminary experiment has been done once which suggests that we may have ant com aut a cole em oroni abebiade anti act dan alabat a talà the same problem here as in the complete utilization of maltose, via amylonë dichedori - Arthonoco i u tro ilcuid maltase, in the Makester Mal#Glu- types, by the intact cells. Dried cells they rds is held to be for the of wild type retain their capacity to ferment lactose (as they do of glucose vieweonie an 7 and galactose), but in this suppressor-mutant, drying destroys the capacity to fermeht lactose. Again, we have the dilemma: is there a second labile

enzyme which bypasses hexoses altogether in the utilization of these disaccharides, or threading with a markinkly labile function of the University of disconstruenzymes we already recognize, one which is dependent on the structural integrity of the faell. David Green, now at our Enzyme Institute, inclines, of course to the latter viewpoint, on the basis of his work on cyclophorase. , sevent se I haven't had time yet to think how this can be attacked experimentally. this is a substituter of a lo eros finals as is in the In fact, our work has been somewhat diverted by the finding that Content to be felolit elididad esel dida ese va greater on the fore e. . K-12 is lysogenic !, unrevealed until some suspeptible and phage-free to rivery suight every on lactors to form going addice. The softwire is mutants were produced coincidentally with out irradiations to prepare of the order of all of visit by e, aither as inthet calls on in awares a Lac- mutants. The "lambda"-negative mutants can then be reinfected by The editors of the metric field \bar{s} is a state of the second tender of the second tensor \bar{s} exposure to the phage, and become lysogenic again. We have been impebled selev I posvolini prilojovile opine ne prilvite, koj ever metal pjiriplan to look into this situation both as a possible interference in our the model of schedule the second of the second of the second second of the crosses (which turns out to be unimportant, unless one parent happens to 1 - A maidtille **n**e er do-l' be lysogenic, the other not) and as a "transforming principle", or an frereiser die state - som er er einer etter freide er er state in state in state in state in state son agent of "gytoplasmic inheritance". I would appreciate a favor from you , for the construction of the state of the form the fit model the off with if you can manage it without inconvenience to yourself, namely to ask to secondar persons fremenes su pero subme the . - the physics sis of your conleagues at the Institut Pasteur to send me the famous lysogenic Lister, as la chase and your allowig. Ath a she with the called medic , E. coli of Lisbonne and Carriere, and if available B. megatherium 899 TO EARTHIN TO MARKE MOLT UND MAI AND APETTERNOO EARTH THE TREASUR DE den Dooren de Jong, along with appropriate sensitive indicator strains. I reserve in both instituted, but le with this method which which is a start I would also appreciate very much available reprints of publications in jane en te recente el foind de como event en ement un traceto de 12 i i i this field. My thanks to you and to them. to the country at second and the most of the most of aster, which a warm If you see Boris Ephrussi and Harriett Taylor, please give them otde my best. Is Harriett working on pneumococcus? Esther read a manuscript of stava i seven dil a miscrico issue para a cai a ci a car se al a Ephrussi's work on acriflavine on yextx yeast, and wondered whether the chief an enderstand the standard for and a second the standard of the standard of the standard of the standard small-celled mutants had been Gram-stained. There are some vague reports the sub-conduct here is in the complete stilling is of this of that this dye may convert Gram- bacteris to Gram-, al " se, he has and diffine types, or the indice to brief of the test of the Regards as well to Prof. Lwoff, econte D. Brystic, estimations the pair of the state of the second time. Tours sincerely, and frances and the time time averages are break and is and a second of the contract of the to formably Letters. Again, to have the officiant in there a second in bill