In this article, alterations in genetic structure of stem rust on wheat during two growing seasons were compared in various areas of Egypt. Two synonym names of pathogen are refered in the text: *Puccinia graminis* Pers. *f. sp. tritici* and *Puccinia graminis* f. sp. *tritici* Eriks. & E. Henn!

Title: covers the content of article, but the typo has to be corrected.

Abstract: confuse. Reedit!

Keywords: Wheat, Stem rust, Infection type, Physiologic races, Race groups, Resistance genes

Introduction: The introduction presents the scope of the manuscript in relation to this filed, **Materials and Methods**: In the Abstract and Table 4 data on two growing seasons are given! Make the correction, please!

Results: The data is presented in an easily visualized and understandable manner, however, the errors have to be corrected.

The submitted manuscript needs improvement in English. The use of term "*On the other hand*" is too frequent! Revise this, please. For proposals see the attached file!

Page	Row	Error	Correct (Comments)	
TITLE				
1	5	Virul <mark>a</mark> nce	Virulence	
ABSTRACT				
1	9	Historically, stem rust <i>Puccina</i> <i>graminis</i> f. sp. <i>tritici</i> is one of the most serious wheat diseases in Egypt. Stem rust samples were collected from different governorates of Egypt during two season 2008/2009 and 2009/2010 growing seasons the single pustule method of isolation was followed for each samples rust data were recorded	Stem rust (<i>Puccina graminis</i> f. sp. <i>tritici</i>) samples were collected from different areas of Egypt during two season 2008/2009 and 2009/2010 growing seasons. The single pustule method of isolation was followed, and the type of infection was recorded as well for each rust samples.	
1	18	and the identification of physiologic races of wheat stem rust fungus. Showed the presence of forty fifth and fifty fifth race groups was identified. race identification the procedure gave evidence to the inclusion of race groups i.e. TT and TK- the most frequent ones which gives (11.59%) and (10.14%) respectively, in 2008/2009. However in season 2009/2010 race groups TT was the most frequent one (21.50 %),	The identification of physiologic races revealed the presence of forty fifth and fifty fifth race groups of stem rust fungus. The race identification evinced the presence of race groups TT and TK as well, which run to 11.59 and 10.14 percents of samples in 2008/2009, respectively. However in season 2009/2010 race groups TT- was the most frequent one (21.50 %),	
Keywords				
1	26	Infection type, Physiologic races, Identification, Race groups, Postulation, Resistance genes.	Wheat, Stem rust, Infection type, Physiologic races, Race groups, Resistance genes	

In all, this article merits publication after correction of syntactic and technical errors.

			(Keywords should reflect the most
INTED			essential items of the article!)
		JN bas threatened	20
1	32	designated this strain as race TTKS	using the letter code of stom rust
1	33	using the letter code stem rust	nomenclature system it was designated
		nomenclature system (5).	as TTKS race (5).
1	34	5). A fifth set of differential	5). Subsequently a fifth set of differential
1	36	Four other variants of the Ug99	Recently, four other variants of the Ug99
1	39	race. Also, Ug99	race. Moreover, Ug99
1	42	Among 56 designated and a few undesignated	Among 56 designated and few undesignated
1	48	However, this problem has been partially solved	Nevertheless, this problem has been partially solved
1	50	were developed	were selected
1	51	1950-1990. All of these cultivars	1950-1990, which can be characterized
2	3	nomenclature for <i>P. g. f. sp. tritici</i>	nomenclature for stem rust of wheat
2	8	wheat verities in Egypt.	wheat varities cultivated in Egypt.
MATE	DIALS A	ND METHODS	Q
γ		The collected sample from most	Wheat stem samples with symptoms of
2	10	wheat filed and Egyptian wheat trap	stem rust disease caused by <i>Puccinia</i>
		nursery in annual survey	graminis Pers. f. sp. tritici collected from
		Governorates of Egypt, included	numerous wheat fields and Egyptian
		wheat stems having the symptoms	wheat trap nursery during annual survey
		Puccinia graminis Pers f sp tritici	physiologic races and pathotypes in
		were used in the identification of	Eqypt during 2008/2009 and 2009/2010
		physiologic races or pathotypes in	growing seasons.
		Egypt during 2008/2009 growing	(In the Abstract and Table 4 data on two
		seasons.	growing seasons are given!)
2	13	I he collected samples (rusted	I he collected samples were kept in
		envelopes (8 x 15 cm) Rest	stem pieces with rust were left at room
		samples, were left at room	temperature for 24 hours to remove the
		temperature for 24 hours to remove	excess of humidity. The desiccated
		the humidity in the samples. After	samples were preserved in fridge till
		that the samples were preserved in	usage.
2	16	The infected specimens were	The rust of specimens was transferred on
2	10	transferred on the highly	the highly susceptible wheat cultivar <i>i.e.</i>
		susceptible wheat cultivar i.e.	Morocco following the method proposed
		Morocco. The method of inoculation	by USDA-ARS(15).
		was carried out as described by	
2	17	(15).	ald soudlings were maisted with atomizer
2	1/	atomizer in the inoculation	in the inoculation chambers than
		chambers with water than	inoculated by shaking and brushing
		inoculated by shaking and brushing	rusted materials over the plants and
		rusted materials over the plants and	sprayed gently again with water in order
		sprayed gently again with water in	to induce "dew" on the plants, then the
		Finally, the inequilated plants were	pots were kept in damp champers for 24
		kept in damp chambers for 24	and cause infection
		hours to allow the rust spore to	
		germinate and cause infection.	
2	23	pastules were isolates separately	pastules were separately isolated
2	24	seedlings for obtained	seedlings to obtain

2	26	according to adopted by (5).	accordung to USDA-ARS prescriptions (5).
		An additional differential set consisting of lines <i>Sr</i> 9a, 9d, 10 and Tmp was added to Table (1) according to adopted by (5). An additional differential set consisting of lines <i>Sr</i> , <i>s</i> 24, 31, 38 and McN was added to Table (1) according to adopted by (6).	Additional differential sets consisting of lines Sr 9a, 9d, 10 and Tmp according to USDA-ARS (5) as well as lines Sr ,s 24, 31, 38 and McN according to Jin et al. (6) were added to Table 1.
2	28		
2	last		Space needed after the table!
RESULTS			10
3	12	Henn. Obtained	Henn. obtained
3	13	based on infection types on the North American stem rust differential series used for race identification	using the North American stem rust differential series for race identification.
3	15	Out of 69 isolates, 45 race groups were identified. during The first growing season(2008/09)The two race groups TT and TK were the most frequent (11.59%) and (10.14%), respectively out of the total identified races in 2008/09 season, followed by race groups TR and KT (5.79%) and (4.35%), respectively.	The presence of 45 race groups was established in 69 isolates of the first growing season (2008/09), where the most frequent race groups were TT and TK (11.59 and 10.14 %, respectively) followed by TR and KT (5.79 and 4.35 %, respectively).
3	18	On the other hand, the frequencyof 6 race groups BB, BH, DK, PF, TF and TSwere (2.89 % each), whereas, the rest of race groups represented (1.44%, each) Table (2).	On the other hand, the frequency of race groups BB, BH, DK, PF, TF and TS was 2.89 % of each, whereas, the remaining race groups were represented at 1.44% of each (Table 2).
3	21	Out of 93 isolates, 55 race groups were identified. during the second growing season (2009/10) the race group TT (21.50 %) was the most frequent. While race groups DH, TK and TS occupied the second rank (4.30 %, each). Followed by the race group PT (3.22 %). On the other hand, race groups BB, BK, DK, DT, KT, PS, SR and TP revealed (2.15 % each). The rest of race groups represented (each, 1.07 %) of the total isolates. Table (3)	During the second growing season (2009/10) 55 race groups were indentified on 93 isolates, and TT (21.50 %) was the most frequent among them. The race groups DH, TK and TS occupied the second rank (4.30 %, each), followed by the race group PT (3.22 %), meanwhile the race groups BB- , BK, DK, DT, KT, PS, SR and TP revealed at 2.15 % of each. Each remaining race groups was repesented in 1.07 % (Table 3).
3	53	Sr 26+9gwere	Sr 26+9g were
4	37	respectively)(Table	respectively) (Table
4	39	Table (4)	Table 4
4	44	respectively. On the other hand, virulence	respectively. The virulence
4	47	Generally the level of efficacy was	The level of efficacy of what?
4	50	<i>Sr5</i> (71.27). On the other hand, <i>Sr,s</i> genes <i>30</i>	Sr5 (71.27). Meanwhile, Sr.s genes 30
4	55	Deference	Difference
5	1	gene (s) for resistance	gene(s) for resistance

5	16	resistant genes (s).	resistant genes(s).
6	53	(Table, 8).	(Table 8).
6	57	(10.00% each)	(10.00% each).
DISCUSSION			38
7	39	One of the most important steps in breeding programs for rust resistance in wheat is the identification of the prevailing physiological races in the region. Such program will be successful if all physiological isolates of the disease are included (19, 20).	One of the most important steps in control programs against rust disease of wheat is both monitoring and identification of physiological races in the region and cultivating varieties resistant to prevailing races (19, 20). Such program will be successful if the selection of varieties resitant to emerging races is included into the breading wheat variety adopted to local conditions.
7	42	The identification of virulence phenotypes has been a very important part of the program to breed resistance host cultivar as well as in study in regional disease spread and the evolution of virulence in the pathogen (21).	The identification of virulent phenotypes has been a very important part of the program to breed resistant host cultivars. The study of both alterations in virulence and regional spread of pathogen are prerequisits of combatting yield losses (21).
7	44	The evolutionary change that occurs in pathogen population such as <i>P g. f. sp. tiritici</i> will necessitate changes in differential host, to maintain relevancy of race determination. Experience has indicated that a review of the system used is required at least every 10 yr. The system is designed is that a race designation can be assigned to virulence combinations directly, eliminating the need to contact a central source before publishing data.	The evolutionary changes that occur in population of pathogen such as <i>P g. f. sp. tiritici</i> necessitate changes in differential host to maintain relevancy of race determination as well. Experience has indicated that a review of the test sortiment used is required at least every 10 years. The system for race determination is designed to assign the virulence combinations directly, i.e., eliminate the need to contact with a central source before publishing data.
8	8	should be reasonable reliable	should be reliable
8	12	A comparison of the races identified	Comparing the composition of rust population identified
8	18	from countries such as	from wheat cultivating areas of
8	28	to the rapidly development	to the rapid appearence (<i>The new infective race might be imported of other geograpic areas as well</i> and not developing locally.)
8	31	genes, the obtained results gave	genes, our results gave
8	last	Egyptian wheat cvs	Egyptian wheat cultivars.