Dryas de Ronde View metadata, citation and similar	Dominant resistance against the Tomato snotted wilt virus in Cansicum papers at core.ac.uk	The first aim in my project was to determine which TSWV viral protein triggered the brought to you by CORE
		provided by Wageningen University & Research Publications
Wageningen University,		annuum had to be established, and this allowed
Droevendaalsesteeg 1,	Resistance against Tomato spotted wilt virus	us to identify the NSs protein of TSWV as the
6708 PB Wageningen	(TSWV) isolates in Capsicum annuum is based on	avirulence determinant of Tsw-mediated
	the dominant resistance gene Tsw. Unfortunately,	resistance in Capsicum annuum. In a next study
	resistance breaking isolates are meanwhile emerg-	we investigated whether the ability of NSs to
	ing and require monitoring and detection of their	trigger the <i>Tsw</i> -mediated resistance was
	presence. Previous research performed on the	functionally linked to the other known function
	identification of the avirulence determinant, the	of the NSs protein; suppressing the antiviral
	viral component triggering the resistance, showed	RNAi response. We were able to show that one
	contradictory results and left the issue unsettled.	function could be disrupted while the other

function could be maintained, maleating that	temperature-dependent benaviour during
these were not functionally linked. We also looked	induction of resistance, <i>i.e</i> they were able to
into the effect of temperature on the ability to	induce (< 28 °C) or break the resistance (\geq 28 °C),
induce the resistance response. In general,	depending on temperature. However, the
dominant resistance genes are temperature	underlying mechanism for this is unknown.
sensitive, i.e. they are not functional above a	Furthermore, we designed a diagnostic tool based
certain temperature (<i>Tsw</i> : 32 °C). Besides this,	on PCR to enable detection of resistance breaking
a small group of TSWV isolates exhibited a	isolates in the field.

temperature-dependent behaviour during

function could be maintained indicating that