

Study on Biotic Stress in Yongchak (*Parkia Timoriana*) in Northeast Region of India

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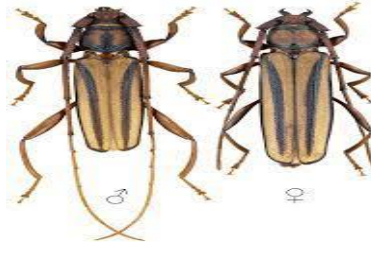
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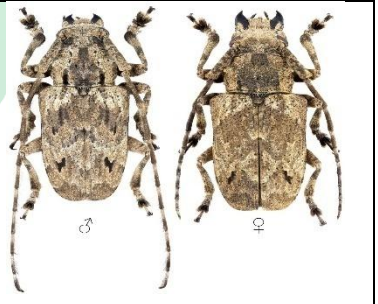
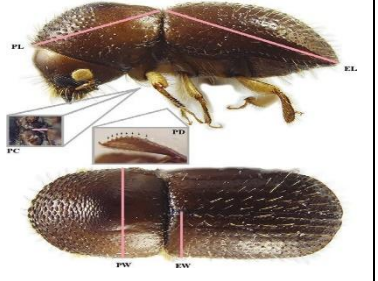
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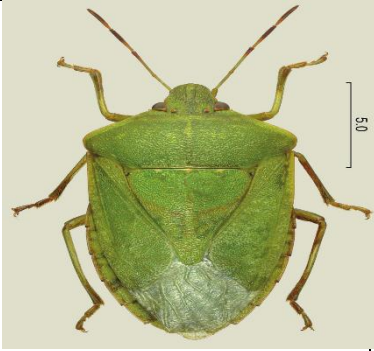



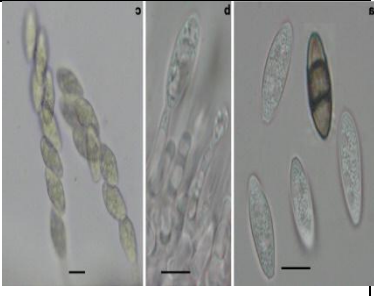
Introduction

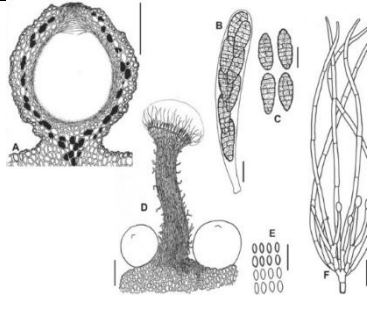
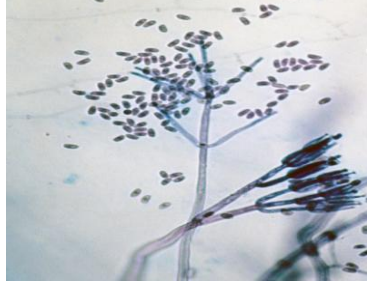

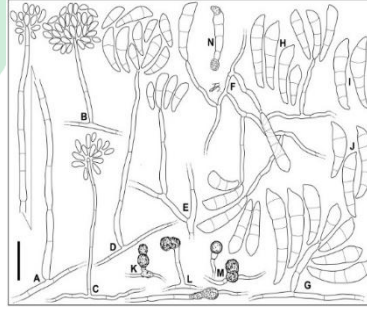
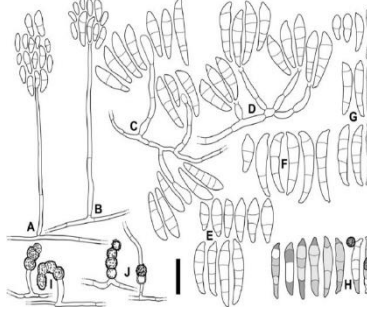
Parkia timoriana (DC.) Merr. is the most significant tropical deciduous legume tree that produces edible bean pods and grows in India's North-eastern states and Southeast Asian countries. This is a tree that grows quickly and belongs to the legume family. It has a woody nature and can reach heights of up to 25 meters, while also having a wide crown. *P. timoriana* is an underutilized and potentially multipurpose plant found in the northeast region of India, which is known for its rich reservoir of regional underutilized crops. The species of tree is significant for the betterment of the living standards of the ethnic communities residing in the area, as well as for augmenting the richness of the soil by nitrogen fixation and the addition of leaf litter, which acts as a source of protein, fat, and vitamins and enhances the content of soil organic matter. The tree species is home to a diverse and intricate ecosystem of insects, but unfortunately, it is relentlessly plagued by insect-related harm.


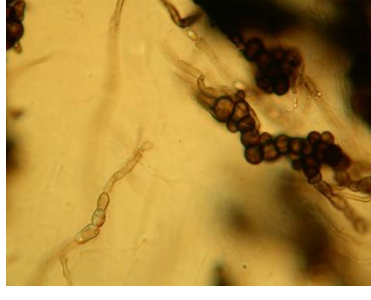


1.	<i>Coptopsleucostictica</i> White Order: Coleoptera & Family: Cerambycidae	
2.	<i>Xystroceraglobosa</i> Olivier Order: Coleoptera & Family: Cerambycidae	

3.	<p><i>Stromatium barbatum</i> Fabricius Order: Coleoptera & Family: Cerambycidae</p>	
4.	<p><i>Blepephaeus succinator</i> Chevrolat Order: Coleoptera & Family: Cerambycidae</p>	
5.	<p><i>Cadracautella</i> Walker Order: Lepidoptera & Family: Pyralidae</p>	
6.	<p><i>Coptopsa edicator</i> Fabricius Order: Coleoptera & Family: Cerambycidae</p>	
7.	<p><i>Euwallacea fornicates</i> Eichhoff Order: Coleoptera & Family: Curculionidae</p>	

<p>8.</p>	<p><i>Anoplophora glabripennis</i> Motschulsky (Asian long horned beetle) Order: Coleoptera & Family: Cerambycidae</p>	
<p>9.</p>	<p><i>Indarbelas</i> spp (Bark eating caterpillar) Order: Lepidoptera & Family: Metarbelidae</p>	
<p>10.</p>	<p><i>Empoasca kerri</i> Singh-Pruthi (Jassid) Order: Hemiptera & Family: Cicadellidae</p>	
<p>11.</p>	<p><i>Aphis craccivora</i> C.L. Koch (Aphid) Order: Hemiptera & Family: Aphididae</p>	
<p>12.</p>	<p><i>Scirtothrips dorsalis</i> Hood (Thrips) Order: Thysanoptera & Family: Thripidae</p>	

<p>13.</p>	<p><i>Nezaravirudula</i> Linnaeus (Green stink bug) Order: Hemiptera & Family: Pentatomidae</p>	
<p>14.</p>	<p><i>Clavigrallagibbosa</i> Spinola (Coreid bug/tur pod bug) Order: Hemiptera & Family: Coreidae</p>	
<p>15.</p>	<p><i>Phytophthora spp</i> (Collar rot) Order: Peronosporales & Family: Peronosporaceae</p>	
<p>16.</p>	<p><i>Cylindrocladium spp</i> Order: Hypocreales & Family: Nectriaceae</p>	
<p>17.</p>	<p><i>Neofusicoccum parvum</i> (Pennycook & Samuels 1985) Crous, Slippers & A.J.L. Phillips Order: Botryosphaeriales & Family: Botryosphaeriaceae</p>	

<p>18.</p>	<p><i>Nectriapseudotrichia</i>(Schwein.) Berk. & M.A. Curtis Order: Hypocreales& Family: Nectriaceae</p>	
<p>19.</p>	<p><i>Clonostachys rosea</i> F. Rosea Order: Hypocreales& Family: Bionectriaceae</p>	
<p>20.</p>	<p><i>Lasidioplodiapseudotheobromae</i> A.J.L. Phillips, A. Alves &Crous Order: Botryosphaeriales& Family: Botryosphaeriaceae</p>	
<p>21.</p>	<p><i>Fusarium ambrosium</i> (Gadd & Loos) Agnihothr. & Nirenberg Order: Hypocreales& Family: Nectriaceae</p>	
<p>22.</p>	<p><i>Fusarium euwallaceae</i>S. Freman, Z. Mendel, T. Aoki & O'Donnell Order: Hypocreales& Family: Nectriaceae</p>	

23.	<i>Fusarium oxysporum</i> Schlecht. emend. Snyder & Hansen Order: Hypocreales & Family: Nectriaceae	
24.	<i>Verticillium dahliae</i> Kleb. Order: Hypocreales & Family: Plectosphaerellaceae	
25.	<i>Pestalotiopsis guepinii</i> (Desm.) Steyaert Order: Amphisphaeriales & Family: Sporocadaceae	
26.	<i>Pestalotiopsis disseminata</i> (Thüm.) Steyaert Order: Amphisphaeriales & Family: Sporocadaceae	
27.	<i>Lasiodiplodia theobromae</i> (Pat.) Griffon & Maubl. Order: Botryosphaeriales & Family: Botryosphaeriaceae	