

CHARACTERISATION OF COLLETOTRICHUM SPECIES CAUSING

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What are the characteristics of Colletotrichum? Colony colors and growth rate, conidia size, and shape of appressoria are some of the characteristics used to distinguish species of Colletotrichum (Hu et al. 2015; Hyde et al. 2009). However, these criteria alone are not sufficient to identify Colletotrichum spp.

Which disease is caused by Colletotrichum species? As plant pathogens, Colletotrichum species are primarily described as causing anthracnose diseases, although other maladies are also reported such as red rot of sugar cane, coffee berry disease, crown rot of strawberry and banana, and brown blotch of cowpea (Lenné 2002).

How to identify Colletotrichum species? The genus Colletotrichum encompasses numerous species, and the key criterion for their identification is based mainly on determining the plant host.

What are the characteristics of Colletotrichum graminicola? Colletotrichum graminicola (red stalk rot of cereals); Note setae and conidia (19-29 x 3.3-4.8 µm) in acervulus (70-300 µm diameter). Conidia are held together in an orange or salmon to pinkish gelatinous matrix.

What are the morphological characteristics of Colletotrichum capsici? The Colletotrichum capsici produce grey white scattered falcate conidia with black acervuli, and non-uniform shape of mycelium. Colletotrichum capsici formed smooth circular margin in the colony. The grey whitish mycelium of Colletotrichum capsici

gradually developed from the second day in culture of isolates.

What is the morphology of Colletotrichum fungi? Identification and characterization of *Colletotrichum* species is based on morphological characters such as size and shape of conidia and appressoria, existence of setae or presence of a teleomorph, and cultural characters such as colony color, growth rate and texture (Smith and Black, 1990).

What are the symptoms of Colletotrichum capsici? Hosts and symptoms *C. capsici* infection tends to infect ripe red fruit and lead to the development of brown necrotic lesions containing concentric acervuli that will eventually appear black from the setae and sclerotia (Srinivasan, Vijayalakshmi Kothandaraman, Vaikuntavasan, & Rethinasamy, 2014).

What toxin is produced by Colletotrichum? Phytotoxin production has been reported for several *Colletotrichum* species (1). The toxins of which the chemical structure was identified include colletotrichins produced by *C. nicotianae* (6) and *C. capsici* (8), colletopyrone produced by *C.*

Why is Colletotrichum important? *Colletotrichum* is the most important and common fungal genus causing anthracnose. *Colletotrichum* has an extremely wide host range including vegetables, field and forage crops, fruit trees, and ornamentals. It infects foliage and fruits, particularly in warm, wet weather.

What is the difference between Fusarium and Colletotrichum? Also the fungus *Fusarium* spp. produce three types of conidia, they are microconidia, macroconidia and chlamydospores with one, two, three or more cells, while the fungus *Colletotrichum* produce one type of conidia with one cell.

What is the primary inoculum of Colletotrichum? Primary inoculum consists of fresh conidia produced in acervuli under favorable conditions of temperature (10 to 30°C for most of the clades) and moisture (e.g., wetness periods longer than 6 h) on overwintered sources for the entire cropping season (Moral and Trapero, 2012; Stensvand et al., 2017; Everett et al., 2018 ...

What is the difference between Alternaria and Colletotrichum? *Alternaria* species cause leaf spot, fruit spot and heart rot (black rot) of pomegranate, whereas

Colletotrichum species cause a fruit rot called anthracnose/calyx end rot [7,8,9]. These fungal pathogens cause huge economic losses to growers, as infected fruits become unmarketable.

Which disease is caused by Colletotrichum? Colletotrichum is one of the most important plant pathogens worldwide causing the economically important disease anthracnose in a wide range of hosts including cereals, legumes, vegetables, perennial crops and tree fruits (Bailey and Jeger, 1992).

What are the culture characteristics of Colletotrichum? The results show that Colletotrichum colonies varied in the appearance of their culture ranging from fibrous, compact and cottony colonies. The colour of colonies ranged between whitish to greyish, pinkish and greyish green.

What diversity of Colletotrichum species associated with olive anthracnose worldwide? To date, a total of 14 Colletotrichum spp. have been associated with olive anthracnose over the world.

How do you identify Colletotrichum? Colletotrichum gloeosporioides sensu stricto, Colletotrichum karstii and Colletotrichum novae-zelandiae were identified using a polyphasic approach that included multigene phylogenetic analysis using sequences of internal transcribed spacer and intervening 5.8S nrDNA (ITS), glyceraldehyde-3-phosphate dehydrogenase (...

What is the morphology of Colletotrichum acutatum? Conidia are 8-16 x 2.5-3.4 µm in size, fusiform, thin-walled, aseptate and hyaline. Appressoria are few in number, 6.5-11 x 4.5-7.5 µm in size, clavate to circular and light to dark-brown.

What is the life style of Colletotrichum? The most commonly found and described lifestyles in Colletotrichum are endophytic and hemibiotrophic phytopathogenic. Several of these phytopathogenic species show wide genetic variability, which makes long-term maintenance of resistance in plants difficult.

What shape are Colletotrichum capsici conidia? Conidia is cylindrical to fusiform, 1-celled, hyaline, apices are acute, 27.332 µm and 3.5 µm in length and breadth respectively (see Figure 1). Appresoria are medium brown in colour. Based on these

characters the pathogen is confirmed as *C. capsici* (Alexopoulos et al.

What is the description of *Colletotrichum falcatum*? The fungal genus *Colletotrichum* (sexual stage: *Glomerella*) (*Glomerellaceae*) is one of the most common and destructive groups of plant pathogenic fungi, causing disease on plants from nearly every crop and natural ecosystem worldwide.

What is the causal organism of *Colletotrichum* blight in onion? *Colletotrichum gloeosporioides* is the causal organism of the anthracnose and twisting symptom^{13,14,15}. The disease was first reported near Zaria, north Nigeria, in 1969 caused by *Glomerella cingulata* (the perfect state of *C.*

What are the characteristics of anthracnose? Symptoms of anthracnose diseases range from minor cosmetic spotting of leaves to blighting of leaves and tender shoots and dieback of twigs and branches. Symptoms also vary with the individual host and the causal fungus.

What are the symptoms of *Colletotrichum* leaf spot? Symptom expression is highly dependent on the host plant species, but often lesions initially appear as small water-soaked circular areas. With time, lesions enlarge and become tan to dark brown or black in colour, circular or irregular in shape, and may be surrounded by a bright yellow halo in some hosts (Fig.

What is the culture of *Colletotrichum*? In culture, colonies of *Colletotrichum* may have sparse setae and produce pinkish, water-soaked colonies. The fruiting body is an acervulus; conidiophores are produced in a dense, even stand on a thin or well-developed stroma. Conidiophores are simple, short, hyaline, producing abundant phialophores.

What are the characters of *Colletotrichum Gloeosporioides*? *Colletotrichum gloeosporioides* Penz. a facultative parasite belongs to the order Melanconiales. The fungus produces hyaline, one-celled, ovoid to oblong, slightly curved or dumbbell shaped conidia, 10-15 µm in length and 5-7 µm in width. Masses of conidia appear pink or salmon colored.

Is Nothing Else Matters an original Metallica song? Lead singer and rhythm guitarist James Hetfield wrote the song (credited to Hetfield/ Ulrich) in 1990 while on

tour, when Hetfield "was bumming out about being away from home." Initially, the song was not meant to be released, as Hetfield had written it for himself, but after drummer Lars Ulrich heard it, it was ...

What guitar is used on "Nothing Else Matters"? A Gretsch White Falcon was used for the clean, airplane-sounding dive bomb heard in Nothing Else Matters, and a Fender Telecaster with a B-Bender, that was used on My Friend of Misery – it is believed to have been the same Tele used on Unforgiven II and we know that guitar to have been a '52 Reissue.

What tuning is "Nothing Else Matters" played in? The guitar is in a standard E-A-D-G-B-E tuning and the beginning of the song has lots of those open strings being played.

What does p mean in guitar tab? The "p" is pull off. All you have to do is play the first note, then put your finger down where the second note is. For example, play fret 1 string 1 then just put another of your fretting hand finger to fret 3. Then pull off.

What is the most unpopular Metallica song?

Who originally performed Nothing Else Matters?

Is Metallica Nothing Else Matters hard to play on guitar? The introduction to Nothing Else Matters is quite demanding. You have 24 bars to get through until the verse begins and there's a lot for you to learn here. Watch out for some of the tricky hammer-ons and pull offs that appear in bars 6 and 11. Really take your time and focus on the clarity of each note that you play.

What is James Hetfield's favorite guitar? What kind of guitar does James Hetfield use? James Hetfield has used Gibson and ESP guitars since he was a teenager. His main guitar is an Explorer-style made by Ken Lawrence, but he also owns a Gibson Flying V, as well as numerous ESP signature models.

How many guitars does James Hetfield own? I believe James owns about 400 guitars, and for him to include so many ESPs in a book that showcases only 45 guitars from his collection is a testament to his lifelong relationship with Matt and the team at ESP.

What key is Metallica Nothing Else Matters in? Nothing Else Matters is written in the key of E Minor. According to the Theorytab database, it is the 2nd most popular key among Minor keys and the 8th most popular among all keys.

Who plays the guitar solo in Nothing Else Matters? It is one of the few Metallica songs in which Hetfield, rather than Hammett, plays the guitar solo.

Is "Nothing Else Matters" a love song? Written about Hetfield missing his then-girlfriend Kristen Martinez while on tour, the tender power-ballad is one of the most striking songs on Metallica's self-titled fifth album, but Hetfield confesses to Classic Rock that he was in two minds as to whether it should even be recorded for the album.

What is the most famous guitar riff?

What is a slur in guitar tab? A "slur" refers to playing two or more notes by playing the first with the right hand fingers, then lifting or placing fingers without right hand stroke. The result is a very legato feel. This can be accomplished in one of two ways: Ascending and Descending.

What do x's mean in guitar tabs? X's and O's An "X" above a string indicates that the string should be muted when strumming a chord. An "O" above a string means that the string should be played in the open position (without a finger on any of the frets aligned with that string) in a given chord.

What is Metallica's angriest song? And Justice for All' (1998) This song finds Hetfield laying it out emotionally with a message directed squarely at his parents. Angry and extremely deep, this is one of many examples of just how much credit metal's most charismatic frontman deserves as a songwriter.

What is the hardest sounding Metallica song? The votes were incredibly close for this slot, but "Dyers Eve" just beat out Master of Puppets songs like "Disposable Heroes" and "Battery" to claim a place on this list.

What is Metallica biggest song? Metallica's highest-ever chart hit, "Until It Sleeps" deals directly with James Hetfield's upbringing as a Christian Scientist, and how his parents' strict "no doctors" belief system contributed to his mother's death from

cancer. (The disease is the ominous "It" of the song's title.)

What does the word Metallica mean? It's an Italian word, metallico/metallica, masculine feminine of the adjective, it means made by metal.

Who wrote the riff for Nothing Else Matters? Composed by James Hetfield and Lars Ulrich and produced by them as well, along with Bob Rock, "Nothing Else Matters" has a surprising origin story: it first came into existence when Hetfield was on the phone with his girlfriend.

Why did Jason Newsted leave Metallica? During a meeting between the members of Metallica in December 2000, Newsted proposed that the band should take a year-long hiatus, and he would use that time to focus on his side-project Echobrain. When the other band members (specifically James Hetfield) rejected Newsted's proposals, he chose to quit the band.

Who taught Metallica to play guitar?

How good is Metallica guitarist? James Hetfield pretty much invented a whole new style of guitar playing: rapid downstrokes with palm muting, done with surgical precision. Who is Metallica's best guitarist? It's not even close. James Hetfield is one of the best rhythm guitarists in the world.

Does James Hetfield know guitar theory? In the end, it's the result that counts, and, even without formally learning music theory, James Hetfield has proven himself to be one of the world's best rhythm guitar players and songwriters. Nonetheless, learning music theory has many benefits for Rock guitar players.

Who taught James Hetfield guitar? James Hetfield How He Learned: Self-taught, though he did take piano lessons at the age of nine.

Who is James Hetfield best guitarist of all time? Hetfield is often regarded as one of the greatest heavy metal rhythm guitar players of all time.

What does OGV stand for Hetfield? Among the tales from Messengers: The Guitars Of James Hetfield (arriving October), one tells of an electric guitar the Metallica frontman refers to as the 'OGV' — his original Electra Flying Wedge.

Who covered Nothing Else Matters by Metallica?

Who wrote "Nothing Else Matters Riff"? Though it was initially strongly criticized by some fans, the track remains symbolic of the shift in the career of the “4 Horsemen” that came with the release of the famous Black Album in 1991. Composed by James Hetfield and Lars Ulrich, Nothing Else Matters includes one of amateur guitarists' most popular intros.

Who originally sang the song no matter what? "No Matter What" is a song originally recorded by Badfinger for their album No Dice in 1970, written and sung by Pete Ham and produced by Mal Evans.

What was the original Metallica band? Metallica's line-up originally consisted of Ulrich, rhythm guitarist and vocalist James Hetfield, and lead guitarist Dave Mustaine. Mustaine was later fired due to problems with alcoholism and drug addiction – he went on to form the band Megadeth. Exodus guitarist Kirk Hammett took his place.

Who did Metallica sue for music? Napster was a pioneering peer-to-peer file sharing Internet service, founded by Shawn Fanning, that emphasized sharing digitally encoded music as MP3 audio files. On April 13, 2000, Metallica filed a lawsuit against the file sharing company Napster.

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Did Metallica sue a cover band? Metallica have distanced themselves from a cease and desist letter sent on their behalf to a Metallica cover band, attributing it instead to an “overzealous attorney”. “We hear that a Canadian Metallica tribute band is a little upset with us and with a little digging, figured out why,” the band told Rolling Stone.

Why did Metallica make nothing else matter? The lyrics were written by lead singer and guitarist James Hetfield, with additional credit given to bandmate Lars

Ulrich. Hetfield drew from a vulnerable place of feeling homesick on the road, writing the lyrics in solitude.

What is the meaning behind fade to black? The song's lyrics address suicidal feelings. It begins with an acoustic guitar introduction and becomes progressively heavier as the song goes on, similar to their future songs, "Welcome Home (Sanitarium)", "One", and "The Day That Never Comes".

What is enter sandman meaning? Lyrically, the song is about "nightmares and all that come with them", according to Chris True of AllMusic. The title is a reference to the sandman, a character from Western folklore who makes children sleep.

Who originally sang the song Nothing Else Matters? "Nothing Else Matters" is the third single off of American metal band Metallica's fifth studio album Metallica. The song was released on April 20, 1992.

Does Elton John sing nothing else matters? Nothing Else Matters by Elton John Album: The Lockdown Sessions Spotify: <https://open.spotify.c...> We just want to make everyone understand the songs lyrics.

Who made the song nothing else? "Nothing Else" is a song by American Christian musician Cody Carnes.

Is Metallica Republican? Politics get in the way of things; they get in the way of getting things done, and getting our music across is what we wanna do – we don't wanna cloud it with Democrat, Republican, whatever. Our philosophy is 'think for yourself' at the end of the day – do what you think feels right.

What was Metallica almost called? In 1982 before they became worldwide famous Metallica was almost labeled as Power Metal, but the band objected to that.

What band broke off from Metallica? 1983–1985: Formation and Killing Is My Business. Dave Mustaine formed Megadeth in 1983, after being fired from Metallica.

Structural Dynamics in Earthquake Engineering

Q: What is structural dynamics?

A: Structural dynamics is the study of the dynamic behavior of structures, including their response to external forces such as earthquakes. It involves understanding how structures vibrate, deform, and dissipate energy when subjected to dynamic loads.

Q: How is structural dynamics used in earthquake engineering?

A: Structural dynamics plays a crucial role in earthquake engineering by enabling engineers to assess the seismic resistance of structures. By analyzing the dynamic response of buildings, bridges, and other structures to earthquake ground motions, engineers can identify potential vulnerabilities and develop design strategies to mitigate earthquake damage.

Q: What are common methods used in structural dynamics earthquake engineering?

A: Common methods include:

- **Time history analysis:** Simulates the response of a structure to a specific earthquake ground motion record.
- **Response spectrum analysis:** Estimates the maximum structural response to a range of possible earthquake ground motions.
- **Nonlinear analysis:** Considers the nonlinear behavior of structural materials under extreme loads, providing a more accurate representation of the actual structural response.

Q: What are the key parameters considered in structural dynamics earthquake engineering?

A: Important parameters include:

- **Natural frequency:** The frequency at which a structure naturally vibrates.
- **Damping ratio:** The rate at which a structure dissipates energy.
- **Seismic mass:** The portion of the structure's mass that contributes to its dynamic response.
- **Ground motion intensity:** The magnitude and frequency content of the earthquake ground motion.

Q: How can structural dynamics be applied to improve earthquake safety?

A: By understanding the dynamic behavior of structures, engineers can develop design recommendations and retrofitting strategies to:

- Reduce structural damage and collapse during earthquakes.
- Improve the seismic performance of new and existing structures.
- Create more resilient communities by minimizing earthquake-related economic and social impacts.

What is content strategy according to Halvorson? The Content Strategy Alliance combines Kevin Nichols' definition with Kristina Halvorson's and defines content strategy as "getting the right content to the right user at the right time through strategic planning of content creation, delivery, and governance."

What is content strategy in brain traffic? Content strategy guides the creation, delivery, and governance of useful, usable content. Content strategy means getting the right content, to the right people, in the right place, at the right time. Content strategy is an integrated set of user-centered, goal-driven choices about content throughout its lifecycle.

What are the 4 steps of content strategy?

What are the 3 components of content strategy?

What is a content strategy example? A common content strategy example is implementing blog design and hub best practices. Blog optimization is important so more people can find your site and boost overall traffic. It's also a great way to map out development ideas to improve the user experience.

How do you create content that drives traffic? Focus on your customer needs. Creating content matching their requirements can drive leads, sales, and conversions. It's important to understand your target audience and their pain points. Look at the specific questions your customers ask on your website, social media profiles, and emails.

What is a content strategy framework? A content strategy framework is a plan that covers your content goals, target audience, and tactics for creating and distributing your content.

What are the 4ps of content strategy? Everyone who has studied marketing has likely been introduced to the 4 P's of the Marketing Mix, which is as follows: Product, Promotion, Place, and Price. These 4 P's were initially coined by E.

What are the three pillars of content strategy? Let's examine three important words: "valuable, relevant, and consistent." These are the three keys to a content strategy designed to attract and retain your ideal customer.

What are the 4 C's of strategy? By systematically analyzing customers, competition, costs, and capabilities, businesses can make more informed strategic decisions. The 4C framework helps businesses identify their competitive advantages, areas for improvement, and opportunities for growth step-by-step in a clear and repeatable way.

What are the 7 steps in creating a content strategy?

What are the 3 C's of content? These are the three most important parts of content strategy. It's the trinity of modern marketing.

What is an UX content strategy? As the name suggests, UX content strategy is a framework that guides the creation of content with a clear focus on the needs of the user and the overall user experience. It ensures that every piece of content serves a purpose and contributes to the larger context of the product.

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