IFUS Scientific Team Continues to Uncover Plausible Evidence as to the Efficacy of IFUS Product Lines

LETTER TO THE SHAREHOLDERS

July 18, 2025

Napoleonville, LA IFUS:PK

For over 12 years now, the IFUS Scientific Team has searched for and reviewed studies published in juried journals from across the globe. These studies have focused on the ingredients in the various IFUS Product Lines to include: (1) Nutri-Mastic™, (2) SGP+™ and (3) SupremeAG™. The Team now reports that incredible data published in the last 5 or so years are providing insights into why customers applying the IFUS Products respectively and with "Best Practice" guidance are reporting positive results.

Listed below is a sampling of studies on each of the IFUS Products Lines. It is your company's intent to now provide regular updates as the progress being made in these areas.

These "samplings" are excerpts from a series of IFUS White Papers, which can be found at https://impactfusionbrands.com/knowledge-base/part-1-plausible-scientific-evidence-of-the-efficacy-ofsgptm-in-bovine-herd-performance-through-ration-management/

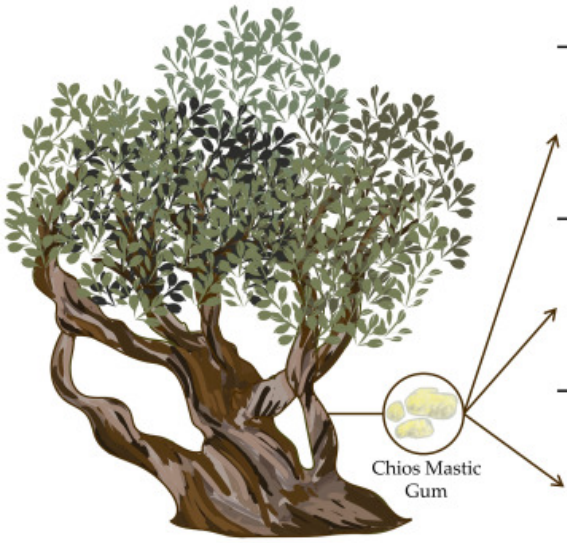
Please note that these White Papers continue to be Works-In-Progress as more data is provided to our Team. Each iteration of data then triggers a comprehensive review of published studies to offer plausible explanations as to why the data is either valid or requires further exploration. The intent is the continued search for empirical truth as IFUS holds value in the improvement of human, animal, and plant health while healing the planet…all in a safe, eco-friendly, and cost-effective manner. Hence, Research, Validation, and Commercialization of products that are as "All Natural" as possible remains paramount.

(1) Nutri-Mastic™: This excerpt focuses on Chios Mastic Gum (a key component of Nurti-Mastic™) and can be found in the IFUS White Paper: Chios Mastic Gum Plausible Scientific Evidence of the Efficacy of Nutri-Mastic™, SGP+™, and Supreme(AG)™ on Humans, Animals, and Plants (Rev.3-1Jul2025-ifus) per the link above.

IFUS Point 1L-2: Blomquist, S.A.; Fernandez, M.L. Chios Mastic Gum: A Promising Phytotherapeutic for Cardiometabolic Health. Nutrients 2024, 16, 2941. https://doi.org/10.3390/nu16172941

IFUS Point 1L-2a: Figure 1: Impacts of Chios mastic gum on disease mechanisms and cardiometabolic outcomes. Abbreviations used: * adjunct metabolic syndrome treatments only, ** CMG-gene interactions only, 11β-HSD1 = 11-beta-hydroxysteroid dehydrogenase, adipo = adiponectin, ALT = alanine aminotransferase, AMPKα = AMP-

activated protein kinase alpha, Apo(B) = apolipoprotein B, AST = aspartate aminotransferase, BF = body fat, CD36 = cluster of differentiation 36, CRP = C-reactive protein, FG = fasting glucose, GGT = gamma-glutamyl transferase, Gpx = glutathione peroxidase, GR = glucocorticoid receptor, GSH = glutathione, HDL = high density lipoprotein, HOMA = HOMA-IR (homeostatic model assessment for insulin resistance), IL-10 = interleukin 10, IL-6 = interleukin 6, Ins = insulin, LDL = low density lipoprotein, LPC = lysophosphatidylcholine, LPE = lysophosphatidylethanolamine, Lp(a) = Llipoprotein(a), MAP = mean arterial pressure, Microbiota div. = microbiota diversity, NAFLD = non-alcoholic fatty liver disease, NF-κB = nuclear factor kappa B, NOX-2 = NADPH oxidase 2, NRF-2 = nuclear factor erythroid 2-related factor 2, oxLDL = oxidized low-density lipoprotein, p65 = p65 subunit of NF-κB, PEPCK = phosphoenolpyruvate carboxykinase, PPARα = peroxisome proliferator-activated receptor alpha, PPARγ = peroxisome proliferator-activated receptor gamma, pPP = peripheral pulse pressure, SBP = systolic blood pressure, TAS = total antioxidant status, TC = total cholesterol, TG = triglycerides, TNF-α = tumor necrosis factor alpha, VF = visceral fat, Wt = weight.

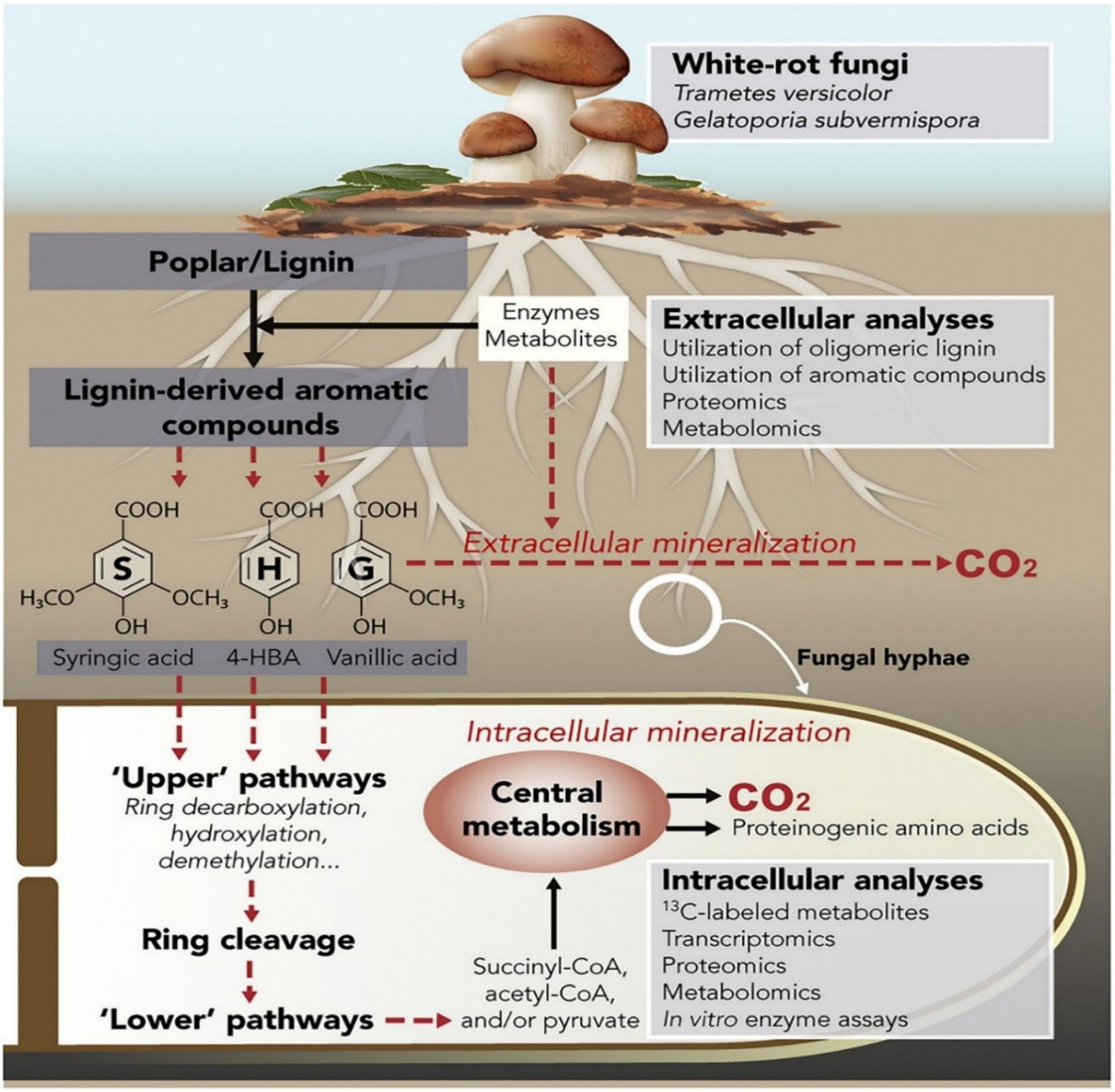


	Inflammation & immunity	Oxidative stress & antioxidants	Cardiovascular & hepatic	Metabolic & microbiota
Humans	↓ IL-6 + gene expression** ↓ TNF-a gene expression** ↓ IL-10**	↓ oxLDL ↓ NOX-2 ↑ TAS** ↓ or ↑ Gpx**	↓ SBP ↓ ALT*, AST* ↓ GGT* ↓ pPP	↓ TG, LDL, TC ↓ BF*, VF*, Wt* ↓ Ins, FG, HOMA ↑ HDL, adipo* ↑ Microbiota div. ↓ Lp(a), Apo(B) ↓ LPC, LPE ↓ Cholic acid ↓ Hemoglobin**
Animals	↓ CRP ↓ IL-6		↓ Hepatic steatosis, NAFLD, fibrosis, ALT ↓ SBP, DBP, MAP ↓ Renin ↓ Infarct size Improved cardiac indices	↓ Glucose ↓ TG, LDL, TC ↓ Total lipids ↑ HDL ↑ Microbiota div.
In vitro, In silico	↓ Monocyte attachment ↓ Adhesion molecules ↓ NF-κB, p65 ↓ Cell migration	↓ oxLDL ↓ NRF-2 ↓ CD36 ↑ GSH		↓ PEPCK ↓ GR ↓ PPARα ↓ AMPKα 11β-HSD1 inhibition PPARγ agonist

(2) SGP+™: This excerpt focuses on Lignin (a key component of Sugarcane Bagasse and subsequently SGP+™) and can be found in the IFUS White Paper: Scientific Evidence of the Efficacy of SGP+™, in Bovine Herd Performance through Ration Management on Humans, Animals, and Plants (Rev.7-24Jun2025-ifus)

IFUS Point5a(3): Furthermore, where does the protein come from? An answer has been provided by a recent breakthrough whereby Proteinogenic Amino Acids are produced in the presence of minerals from lignin depolymerization. Source: “Intracellular pathways for lignin catabolism in white-rot fungi”, Carlos del Cerro, et.al, The Proceedings of the National Academy of Sciences: Systems Biology/Biological Sciences, Feb. 23, 2021.

This is illustrated in the diagram below on work done on Poplar Lignin. However, the pathways of S-, G-, and H-Lignin are shown to produce Proteinogenic Amino Acids:



Please note that the production of CO2 in this manner is being shown to interact in Bovine Digestion to sequester Methane Production while providing critical water for Bovine Hydration *in vivo*.

(3) SupremeAG™: This excerpt focuses on Humic Substances (a key component resulting from the degradation of lignin contained in Sugarcane Bagasse and subsequently SGP+™ as well as SupremeAG™) and can be found in the IFUS White Paper: Scientific Evidence of the Efficacy of SGP+™, in Bovine Herd Performance through Ration Management on

Humans, Animals, and Plants (Rev.7-24Jun2025-ifus). Please note the SupremeAG™ White Paper is under development at this time.

IFUS Point 2b: However, since these measurement systems were created, there have been emerging repercussions. As an example: “Man became distracted from the importance of organic compound cycling when it was discovered that soluble acidic based N P K "fertilizers" could stimulate plant growth. Large industrial concerns took advantage of the N P K discovery to market industrially processed "fertilizers" from mineral deposit. Continued use of these acidic fertilizers in the absence of adequate humic substances (in the soil) has caused many serious sociological and ecological problems. Man needs to reconsider his approach to fertilization techniques by giving higher priority to soil humus.”, ORGANIC MATTER, HUMUS, HUMATE, HUMIC ACID, FULVIC ACID AND HUMIN: THEIR IMPORTANCE IN SOIL FERTILITY AND PLANT HEALTH, Dr. Robert E. Pettit, Emeritus Associate Professor Texas A&M University

IFUS Point 2b(1): As a note, as these mineral deposits were depleted (as well as light/sweet crude oil), chemicals processed from complex “heavy/sour crude oil” filled the mineral void.

IFUS Point 2c: To Dr. Pettit’s point, a study was performed on Humic Substances (HS): “Effects of a dietary complex of humic and fulvic acids (FeedMAX 15™) on the health and production of feedlot cattle destined for the Australian domestic market. Conclusions: Feeding the humic and fulvic acid complex, FeedMAX 15™, at 0.055 g per kg body weight per day, can increase growth rate and feed conversion efficiency in feedlot cattle.” P M V Cusack, Aust Vet J., 2008 Jan-Feb;86(1-2):46-9.

IFUS Point 2c(1): Furthermore, another study concluded that, “…the addition of HS to the diet of beef heifers resulted in a favorable increase in the retention of N, with increased NH3-N and protozoa counts at low to moderate doses of HS. HS favorably increased the digestibility of CP and the retention of N, and decreased fecal N excretion. The addition of HS to the diet had no effect on CH4 production and the microbiome was altered in a manner that was consistent with the lack of change in CH4 production. Further study should assess the effects of HS additive on growth performance in feedlot cattle.” Effect of humic substances on rumen fermentation, nutrient digestibility, methane emissions, and rumen microbiota in beef heifers, Stephanie A Terry, et.al., J Anim Sci. 2018 Aug 29;96(9):3863–3877. doi: 10.1093/jas/sky265

As your company continues its search for empirical truth, we continue to share this data with our sales team so as to maximize customer success. “I am ever-dedicated to ensuring that we can make a sales case on reliable data, even though this has been and at times remains challenging. Furthermore, we are working diligently to create success for our customers, so that their feedback is based on performance data, that is, results, and their feedback continues to

provide cost-effective, eco-friendly solutions that actually work and improve the issues facing them."

Back to Work!

Marc Walther

For our customers of both Intact Digest™ and Intact Endurance™ you may now send your testimonials to:

mwalther@impactfusionintl.com We can also be reached at 1-800-775-4130 seven days a week.

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