

CORESTA Developments and Activities

Dr Stéphane Colard, Secretary General (Designate) Mr Lea Scott, President Scientific Commission (Universal Leaf) Dr Rob Stevens, Vice President Scientific Commission (ITG Brands)

October 2nd, 2019, FDA Center for Tobacco Products





Introduction to CORESTA

Key activities in the Study Groups

The strengths of CORESTA







Cooperation Centre for Scientific Research Relative to Tobacco

A non-profit organisation created in 1956 governed by French law

Purpose*

To promote cooperation in scientific research relative to tobacco and its derived products

*Legally binding





To be recognised by our members and relevant external bodies as an authoritative source of publicly available credible science and best practices related to tobacco and its derived products



COREST

162 members (September 2019)



>600 participants across 26 Sub-Groups and Task Forces

COR-236-CXP FDA/CTP
2 Oct, 20191002



COR-236-CXP FDA/CTP 2 Oct, 20191002



Spectrum of Scientific Cooperation Topics

- Integrated Pest Management
- Virus Diseases
- Extended Diagnostic Expert System
- Efficacy of Biological & Eco-Friendly Crop Protection Agents
- Collaborative Study Black Shank
- Tobacco Alkaloid Genetics
- Tobacco Biotechnology and Omics
- Agrochemicals Analysis
- Pest and Sanitation Management in Stored Tobacco
- Proficiency Testing for Detection of Transgenic Tobacco
- TSNA in Air-cured and Fire-cured Tobacco
- Agrochemical Residue Field Trials
- Collaborative Study of Low Nicotine Tobacco Agronomic Production Practices



- Routine Analytical Chemistry
- Physical Test Methods
- Cigar Smoking Methods
- Tobacco and Tobacco Products Analytes
- E-Vapour
- Cigarette Variability
- Heated Tobacco Products

- Product Use Behaviour
- Smoke Analytes
- In Vitro Toxicity Testing
- Biomarkers
- Consumer Reported Outcome Measures Consortium
- 21st Century Toxicology for Next Generation Tobacco and Nicotine Products



COR-236-CXP FDA/CTP 2 Oct, 20191002



Publications



~ 9000 abstracts/presentations

www.coresta.org



COR-236-CXP FDA/CTP 2 Oct, 20191002

www.coresta.org



Agronomy & Leaf Integrity Phytopathology & Genetics

Lea SCOTT

President of the Scientific Commission



Agronomy and Phytopathology

Agronomy and Leaf Integrity

- Scientific study on the production of all tobacco leaf types
- Crop management practices and environmental factors that influence crop production
- Good Agricultural Practices for efficient, sustainable tobacco production and leaf supply
- Guidance on pest & sanitation of stored tobaccos

Phytopathology and Genetics

- Study of tobacco pests and diseases and plant breeding
- Integrated Pest Management (IPM)
- Genetic mapping, molecular markers and genetic diversity



Agronomy and Phytopathology

Current activities

- Proficiency testing of multi-residue analytical methods for agrochemical residues and for detection of transgenic tobacco
- Agrochemical residue field trials to support setting/review of Guidance Residue Levels
- Investigation of low nicotine tobacco agronomic practices
- Regular Infestation Control Conferences
- Identification and evaluations of biological control products and methods
- Sharing of tobacco genetic materials for disease resistance
- Defining biotechnology terminology for non-scientists
- Data contribution to Di@gnoplant





Agrochemical Advisory Committee

Objectives

To address matters relating to agrochemicals* and topics associated with product stewardship and integrity in tobacco by gathering relevant information and disseminating guidance to stakeholders.

Guidance documents

- No. 1 Agrochemical Guidance Residue Levels (GRLs)
- No. 3 Good Agricultural Practices (GAP) Guidelines
- > No. 19 Responsible Use of Crop Protection Agents (CPAs) in Tobacco Leaf Production
- > No. 21 Best Practices and Crop Protection in Cigar Dark Air-Cured Tobacco
- No. xx Technical Aspects of CPA Usage (underway)

* Agrochemicals are those substances used in farming to manage pests or to regulate plant growth. They are also referred to as crop protection agents (CPAs) and plant protection products (PPPs), including biopesticides.



Smoke Science Product Technology

Rob STEVENS

Vice-President of the Scientific Commission



Smoke Science and Product Technology

Smoke Science

- Responsible for the scientific study of emissions from, and exposure to, tobacco and related products.
- Development of specific chemical and biological methods and investigation of means to assess exposure and use.

Product Technology

- Concerned with the study of processes and procedures relating to tobacco processing and manufacturing facilities.
- Description of tobacco and tobacco products in terms of physical properties, chemical properties and quality.
- Development of Reference Materials.



Smoke Science and Product Technology

Recommended Methods*, Guides and Reports on tobacco, product and smoke analysis (biological, chemical and physical)

- Since 1956, 93 CORESTA Recommended Methods (CRMs) produced, of which 43 ISO standards based on CRMs
- + 3 CRMs currently in the process of becoming ISO standards
- Regular collaborative studies/proficiency trials to support member labs' accreditation (agrochemicals, TNCO, physical...)
- Protocols for in vitro toxicity testing of mainstream smoke

Developed Reference Materials

- 'CORESTA Monitor test piece' for smoking machine set-up
 - + 1 for LIP testing
- 4 smokeless tobacco products

*71 out of 92 CRMs are currently active, due to obsolescence/replacement of older ones







- Discussions during process provide insight into causes/reduction of intra- and inter-laboratory variability
- Methods and Reports are made available on the CORESTA website



Current activities

- Ongoing contribution to ISO TC126 standards development (CORESTA is a Liaison A member)
- Experimental evaluation of commercial cigarette variability over short term (one production week), medium term (production over one year), and long term (production over three years)
- Regular collaborative studies and proficiency tests
- E-cigarette and Heated Tobacco Product working groups
- Analytical methods for cigars
- Working groups on Consumer Reported Outcomes and 21st Century Toxicology (NGPs)



The Strengths of CORESTA



The strengths of CORESTA

Transparent and inclusive ways of working

- global inter-disciplinary participation
- > non-member expertise welcomed
- > annual meetings open to all interested parties
- Focus on sharing and advancing scientific knowledge
- Proficiency testing activity supports laboratory accreditation
- Track record supporting development of International Standards



Thank you

www.coresta.org