
Emerging Issues

Area of Focus Cancer vaccines

Subtopic

Reviewers von Holt, Davies, Leyden

comments

Area of Focus Inhalers (delete if this means product development work)

Subtopic

Reviewers Schaffernicht, Reininghaus

comments

Due to
Leave by
Next Wednesday
by Noon

Methodology

Area of Focus Causation

Subtopic

Reviewers Carchman, Walk

comments

Area of Focus Epidemiology

Subtopic

Reviewers von Holt, Nelson, Dempsey, Sanders

comments

Area of Focus Exposure monitoring

Subtopic

Reviewers Schepers, Haussmann, Schorp, Lau, Zhang

comments

Area of Focus General Testing Procedures

Subtopic Implementation of ingredient testing program

Reviewers Reininghaus, Carmines, Nixon

comments

Subtopic Implementation of an industry testing program

Reviewers Reininghaus, Carmines

comments

Subtopic Implementation of an independent scientific review board of ingredients

Reviewers Carmines, Solana

comments

Subtopic Decide on most appropriate unit(s) of comparison for various assays

Reviewers Reininghaus, Patskan

comments

Subtopic Implement testing program at IITRI

Reviewers Romer, Carmines, Nixon

comments

2073264316

Subtopic PI Guidelines

Reviewers Reininghaus, Carmines, Fox

comments

Subtopic QSR

Reviewers Fox, Carmines

comments

Subtopic GLPs for all analytical chemistry

Reviewers Rustemeier, Nixon, Carmines

comments

Area of Focus In vitro methods

Subtopic

Reviewers Romer, Tewes, Nixon, Reininghaus, Walk, Koller

comments See other specific topics under this general heading

Subtopic New Ames strains

Reviewers Nixon

comments

Subtopic TK validation

Reviewers Tewes, Nixon, Romer

comments

Area of Focus in vivo methods

Subtopic Evaluation of reprotox as an endpoint in PI evaluation

Reviewers Carmines, Patskan

comments

Subtopic

Reviewers Haussmann, Terpstra, Nixon, Terpstra, Walk, Koller

comments see specific topics under this general heading

Subtopic A/J mouse model

Reviewers Haussmann, Terpstra, Reininghaus, Carchman, Walk

comments a subtopic of a carcinogenicity model

Subtopic Measurement of hormones in inhalation study

Reviewers Schepers, Terpstra, Nixon

comments

Subtopic Micronucleus assay

Reviewers Terpstra, Nixon, Romer

comments

Subtopic Data to optimize inhalation study design (2 vs 6 hr., etc.)

Reviewers Terpstra, Carmines

comments

2073264317

Subtopic Evaluation of skin painting as an endpoint

Reviewers Romer, Patskan, Reininghaus

comments This is really a sub-topic of development of a model for carcinogenicity.

Subtopic Development of a model to predict CVD

Reviewers von Holt, Terpstra, Reininghaus

comments

Subtopic Development of a model to predict carcinogenicity

Reviewers Haussmann, Terpstra, Reininghaus

comments

Area of Focus Machine smoking regimes for analysis

Subtopic

Reviewers Schaffernicht, Rustemeier, Stabbert

comments

Area of Focus Mechanisms of Lung Cancer

Subtopic

Reviewers Schlage, Tricker, Carchman, Walk

comments

Area of Focus Smoke

Subtopic Redox potential of smoke

Reviewers Rustemeier, Haussmann, Patskan

comments Is there a need for this measurement?

Area of Focus Smoke Analysis

Subtopic Chemistry list weighting approach

Reviewers Haussmann, Patskan

comments This concerns list development and prioritization for reductions.

Subtopic

Reviewers Rustemeier, Stabbert, Kinser

comments

Subtopic Determine if routine sidestream smoke analysis is necessary

Reviewers Romer, Patskan, Haussmann

comments

Subtopic Develop validated methods for all constituents identified in smoke chemistry list

Reviewers Rustemeier, Stabbert

comments This does not need a separate review sheet

Subtopic Testing methods for 'pH' in smoke

Reviewers Rustemeier, Patskan

comments Determine if this is needed

Product Evaluation

2073264318

Area of Focus

Subtopic Pubs/presentation - banded paper

Reviewers Romer, Patskan, Koller

comments

Subtopic symposium

Reviewers Solana, Patskan

comments

Area of Focus Carcinogens (needs clarification)

Subtopic

Reviewers

comments

Area of Focus Indirect Materials

Subtopic Cobalt risk assessment

Reviewers von Holt, Werley

comments

Subtopic Latex allergy

Reviewers Werley, Patskan

comments

Subtopic Steam chemicals

Reviewers Werley, Patskan

comments

Subtopic Lubricants

Reviewers Werley

comments

Subtopic Polymer pyrolysis study

Reviewers Werley

comments

Subtopic Processing aides (documented evaluation)

Reviewers Werley

comments

Subtopic MES analyticals - Use of appropriate techniques -

Reviewers Werley

comments

Subtopic Reclassify N-rated materials

Reviewers Werley

comments

Subtopic Direct contact hoses

Reviewers Werley

comments

(P I - driven - Not response to reg)

Relative risk assess - Compare to plastics

polyisobutylene & others
Natural rubber latex → can we distinguish
between syn & natural. → Risk from latex.
Is or is not an
issue.① → ④ what we use and
as a documented evaluation
(using those into a paper) finding
what we use up to - date →
and presenting → what should
we do.① → Subtopic Steam chemicals
Reviewers Werley, Patskan
comments Get into
tobacco.② → Subtopic Lubricants
Reviewers Werley
comments when used
properly
(HASIP - H₁, H₂ design. gone)③ → Subtopic Processing aides (documented evaluation)
Reviewers Werley
comments touches product directly.Subtopic MES analyticals - Use of appropriate techniques -
Reviewers Werley
commentsSubtopic Reclassify N-rated materials (N - use until substitute
is found)
Reviewers Werley
comments Look at materials
→ Are they a problem.
→ Could we do anything with memo, doc., or is there really a
problem.④ → Subtopic Direct contact hoses
Reviewers Werley
comments Get into tobacco

2073264319

Area of Focus Ingredients

Subtopic

Reviewers Carmines

comments This is a general heading for a series of topics

Subtopic - Cocoa

Reviewers Romer, Carmines

comments

Subtopic Vinyl acetate in smoke

Reviewers Rustemeier, Carmines, McKinney

comments

Subtopic Propylene oxide in smoke

Reviewers Rustemeier, Carmines, McKinney

comments

Subtopic Documented approval of all DM coded materials

Reviewers Carmines

comments

Subtopic UK ingredient issues

Reviewers Carmines, Dempsey

comments

Subtopic Approval of WW packaging materials

Reviewers Carmines

comments

Subtopic Approval of WW flavors based on product rather than pre-mix

Reviewers Carmines

comments

Subtopic Development of data packages to support use of individual ingredients

Reviewers Carmines, McKinney

comments

Subtopic Ingredient transfer study

Reviewers Carmines, Rustemeier

comments

Subtopic Menthol

Reviewers von Holt, Carmines, Werley

comments

Subtopic - Design study to test menthol

Reviewers Romer, Carmines, Werley

comments subtopic under menthol

ask Ed
ask Ed

2073264320

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Subtopic Inhalation study to evaluate sideseam adhesives

Reviewers Terpstra, Carmines, McKinney

comments

Subtopic EU MSDSs; ecotox test results

Reviewers Romer, McKinney, Carmines

comments

Subtopic Evaluation of defoamers ← *done ?* ←

Reviewers Romer, Carmines, Werley

comments

Subtopic Evaluation of plug wraps

Reviewers Romer, Carmines, Smith

comments

Subtopic Evaluation of flavors

Reviewers Romer, Carmines, Fournier

comments

Subtopic Evaluation of sideseam adhesives

Reviewers Romer, Carmines, McKinney

comments

Subtopic SG dust studies ← *No need to evaluate here*

Reviewers Terpstra, Werley

comments This is responsive to specific requests and should probably be deleted.

Subtopic Initiate and complete evaluation of ink drawdowns for decorative and tipping inks

Reviewers Romer, Carmines, Gaines

comments

Subtopic Current US ingredients to current standard

Reviewers Carmines

comments

Subtopic Resolve issues with pigments

Reviewers Carmines, Gaines

comments

Subtopic Ingredient testing

Reviewers Romer

comments ?

Area of Focus Low tar products

Subtopic

Reviewers Patskan, Koller

comments duplicate of a topic above

2073264321

Area of Focus Product Evaluation**Subtopic** Fire safe products**Reviewers****comments** This topic is not the PI evaluation of product modifications but determining the need for**Subtopic** selective filtration**Reviewers** Koller, Patskan**comments** This is the determination of a need in this area. This may be best addressed under the general**Subtopic** Tobacco burn characteristics (need clarification, Nixon if parameter study is part of this)**Reviewers** Nixon**comments** Combine with cigarette design modeling**Subtopic** Low sidestream products**Reviewers** Patskan**comments** This is determining if there is a scientific need for such products.**Subtopic** Catalog current tobacco processes**Reviewers** Patskan**comments****Subtopic** CO: Tar criteria**Reviewers** Patskan**comments****Subtopic** Pipe, RYO, cigarillo and cigar product testing strategy**Reviewers** Patskan, Solana**comments****Subtopic** Cigarette design modeling**Reviewers** Nixon**comments** Combine with tobacco burn characteristics**Smoking Behavior**

Area of Focus Addiction**Subtopic****Reviewers** Gullotta, Takada**comments****Area of Focus** - Alzheimer's disease**Subtopic****Reviewers** von Holt, Davies, Patskan**comments****Area of Focus** Clinical depression and schizophrenia**Subtopic****Reviewers** Gullotta, Carchman**comments**

2073264322

Area of Focus Cognition, learning and memory

Subtopic

Reviewers Gullotta, Davies, Takada

comments

Area of Focus Combined effect of ethanol and nicotine (may also be considered as an "emerging issue")

Subtopic

Reviewers Gullotta, Takada

comments

Area of Focus Compensation

Subtopic

Reviewers Haussmann, Gullotta, Takada

comments

Area of Focus - Mechanism of addiction

Subtopic

Reviewers Gullotta, Takada, Tricker, Leyden

comments

Area of Focus - Neurodegenerative disorders

Subtopic

Reviewers

comments

Area of Focus Neurological disorders

Subtopic

Reviewers Carchman, Davies, Takada, Gullotta

comments

Area of Focus Neurotransmitters and nicotine receptors

Subtopic

Reviewers Gullotta, Seeman, Sanders, Davies, Takada

comments

Area of Focus Nicotine bioavailability

Subtopic

Reviewers Schepers, Leyden, Davies

comments

Area of Focus Nicotine metabolism

Subtopic

Reviewers Schepers, Seeman

comments

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Area of Focus - Parkinson's Disease

Subtopic

Reviewers von Holt

comments

Area of Focus - Stress, mood and depression

Subtopic

Reviewers Gullotta, Carchman, Davies

comments

Area of Focus - Tourette's Syndrome

Subtopic

Reviewers

comments

Tobacco

Area of Focus Biotechnology, GMO

Subtopic Protein Transfer Study

Reviewers Romer, Gebel, Koller, Zhang

comments

Subtopic Protein transfer study

Reviewers von Holt, Koller

comments

Subtopic GET guidelines

Reviewers Koller

comments

Subtopic GET Guidelines

Reviewers Romer, Gebel, Koller, Zhang

comments

Area of Focus Cadmium

Subtopic

Reviewers Haussmann, Stabbert, Reif

comments

Area of Focus Crop protection agents

Subtopic

Reviewers Reif

comments suggest adding Harmonization of MRLs

Area of Focus Curing/handling

Subtopic

Reviewers Patskan

comments for PI this would be a reponse to a request, may also fit with reduction in smoke constituents

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Area of Focus Harmonization of MRL's for agrochemicals

Subtopic

Reviewers Reif

comments suggest combining with crop protective agents

Area of Focus Mycotoxins

Subtopic aflatoxin

Reviewers Koller

comments

Area of Focus Polonium

Subtopic

Reviewers Kinser, Sanders

comments

Area of Focus Radioactivity

Subtopic

Reviewers Reininghaus, Schaffernicht

comments suggest combining with polonium

Tobacco Smoke (Consituents)

Area of Focus - 1,1-dimethylhydrazine

Subtopic

Reviewers

comments

Area of Focus - 1,3-butadiene

Subtopic

Reviewers Haussmann, Walk, Elves, Tricker

comments

Area of Focus - 2-naphthylamine

Subtopic

Reviewers

comments

Area of Focus - 2-nitropropane

Subtopic

Reviewers

comments

Area of Focus - 4-aminobiphenyl

Subtopic

Reviewers

comments

2073264325

Area of Focus - 5-methylchrysene

Subtopic

Reviewers

comments

Area of Focus - acetaldehyde

Subtopic

Reviewers Rustemeier, Haussmann, Seeman

comments

Area of Focus - acetamide

Subtopic

Reviewers

comments

Area of Focus - acrolein

Subtopic

Reviewers

comments

Area of Focus - acrylonitrile

Subtopic

Reviewers

comments

Area of Focus Aldehydes

Subtopic

Reviewers Rustemeier, Haussmann

comments

Area of Focus Aliphatic Hydrocarbons

Subtopic

Reviewers

comments

Area of Focus Aliphatic Nitrogen Compounds

Subtopic

Reviewers

comments

Area of Focus Ammonia

Subtopic

Reviewers Rustemeier, Haussmann, Seeman

comments

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Area of Focus Aromatic Amines

Subtopic

Reviewers

comments

Area of Focus - arsenic

Subtopic

Reviewers

comments

Area of Focus - benz(a)anthracene

Subtopic

Reviewers

comments

Area of Focus - benzene

Subtopic

Reviewers Rustemeier

comments

Area of Focus - benzo(a)pyrene

Subtopic

Reviewers Rustemeier, Schepers

comments

Area of Focus - benzo(b)fluoranthene

Subtopic

Reviewers

comments

Area of Focus - benzo(j)fluoranthene

Subtopic

Reviewers

comments

Area of Focus - benzo(k)fluoranthene

Subtopic

Reviewers

comments

Area of Focus * bioavailability

Subtopic

Reviewers Haussmann, Schepers, Gullotta

comments

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Area of Focus - cadmium

Subtopic

Reviewers

comments

Area of Focus - carbon monoxide

Subtopic

Reviewers Rustemeier

comments

Area of Focus * "carcinogenicity"

Subtopic

Reviewers Romer

comments

Subtopic

Reviewers Haussmann

comments

Area of Focus - catechol

Subtopic

Reviewers

comments

Area of Focus - chromium

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,e)pyrene

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,h)acridine

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,h)anthracene

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,h)pyrene

Subtopic

Reviewers

comments

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Area of Focus - dibenz(a,i)pyrene

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,j)acridine

Subtopic

Reviewers

comments

Area of Focus - dibenz(a,l)pyrene

Subtopic

Reviewers

comments

Area of Focus Dioxin

Subtopic

Reviewers

comments

Area of Focus - formaldehyde

Subtopic

Reviewers Rustemeier

comments

Area of Focus General Smoke Delivery Parameters

Subtopic

Reviewers

comments

Area of Focus Halogen Compounds

Subtopic

Reviewers

comments

Area of Focus * health effects

Subtopic

Reviewers Hausmann

comments

Area of Focus - hydrazine

Subtopic

Reviewers

comments

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Area of Focus - hydrogen cyanide

Subtopic

Reviewers

comments

Area of Focus - indeno(1,2,3-cd)pyrene

Subtopic

Reviewers

comments

Area of Focus Inorganic Compounds

Subtopic

Reviewers

comments

Area of Focus - isoprene

Subtopic

Reviewers Rustemeier

comments

Area of Focus - lead

Subtopic

Reviewers

comments

Area of Focus Metals

Subtopic

Reviewers Stabbert

comments

Area of Focus Monocyclic Aromatic Hydrocarbons

Subtopic

Reviewers

comments

Area of Focus N-Nitrosamines

Subtopic

Reviewers Rustemeier, Tricker

comments

Area of Focus - nickel

Subtopic

Reviewers

comments

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Area of Focus - nicotine

Subtopic

Reviewers

comments

Area of Focus - nitrogen oxides

Subtopic

Reviewers Rustemeier

comments

Area of Focus - nitrosodibutylamine

Subtopic

Reviewers

comments

Area of Focus - nitrosodiethanolamine

Subtopic

Reviewers

comments

Area of Focus - nitrosodiethylamine

Subtopic

Reviewers

comments

Area of Focus - nitrosodimethylamine

Subtopic

Reviewers

comments

Area of Focus - nitrosodipropylamine

Subtopic

Reviewers

comments

Area of Focus - nitrosomethylethylamine

Subtopic

Reviewers

comments

Area of Focus - nitrosonornicotine

Subtopic

Reviewers

comments

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Area of Focus - nitrosopiperidine

Subtopic

Reviewers

comments

Area of Focus - nitrosopyrrolidine

Subtopic

Reviewers

comments

Area of Focus - NNK

Subtopic

Reviewers

comments

Area of Focus - o-anisidine

Subtopic

Reviewers

comments

Area of Focus - o-toluidine

Subtopic

Reviewers

comments

Area of Focus - phenol

Subtopic

Reviewers

comments

Area of Focus Phenols

Subtopic

Reviewers

comments

Area of Focus Polycyclic Aromatic Hydrocarbons

Subtopic

Reviewers Rustemeier

comments

Area of Focus Polycyclic Aza-arenes

Subtopic

Reviewers

comments

2073264332

P0622

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Area of Focus - propionaldehyde

Subtopic

Reviewers

comments

Area of Focus Radicals in smoke

Subtopic

Reviewers Muller, Haussmann

comments

Area of Focus Radioactivity in smoke

Subtopic

Reviewers Schaffernicht

comments suggest combining with radioactivity ynder tobacco

Area of Focus * reduction

Subtopic

Reviewers

comments

Subtopic

Reviewers

comments

Area of Focus Reduction of smoke constituents

Subtopic Breeding technologies for TNSA minimization

Reviewers Koller, Tricker

comments

Subtopic Processing technologies for TSNA minimization

Reviewers Koller, Tricker, Leyden

comments

Area of Focus Smoke constituents

Subtopic

Reviewers

comments

Area of Focus - styrene

Subtopic

Reviewers

comments

Area of Focus - tar

Subtopic

Reviewers

comments

P0622

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Area of Focus - toluene

Subtopic

Reviewers

comments

Area of Focus - total particulate matter

Subtopic

Reviewers

comments

Area of Focus - urethane

Subtopic

Reviewers

comments

Area of Focus - vinyl chloride

Subtopic

Reviewers

comments

Area of Focus - water

Subtopic

Reviewers

comments

Tobacco Smoke (ETS)

Area of Focus Air-quality guidelines

Subtopic

Reviewers Schorp, Lau

comments

Area of Focus - Children

Subtopic

Reviewers

comments

Area of Focus Computational fluid dynamics

Subtopic

Reviewers Lipowicz, Hirnikel, Schorp

comments

Area of Focus ETS and adducts

Subtopic

Reviewers von Holt, Tricker, Sanders

comments

2073264334

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Area of Focus ETS and breast cancer

Subtopic

Reviewers von Holt, Sanders

comments

Area of Focus ETS and children's issues

Subtopic

Reviewers Dempsey, Sanders

comments

Area of Focus ETS constituent: markers, apportionment, and modeling

Subtopic

Reviewers Rustemeier, Haussmann, Reif

comments

Area of Focus ETS Exposure assessment

Subtopic

Reviewers Rustemeier, Gerstenberg

comments

Area of Focus Exhaled smoke

Subtopic

Reviewers

comments

Area of Focus - Hospitals, workplaces and homes

Subtopic

Reviewers Lipowicz, Schorp, Lau, Zhang

comments

Area of Focus Ventilation technology

Subtopic

Reviewers Lipowicz, Schorp, Hirnikel, Lau

comments

Tobacco Smoke (Health endpoints)

Area of Focus

Subtopic

Reviewers

comments

Area of Focus - Adducts

Subtopic

Reviewers Schepers, Stabbert, Tricker, Kinser

comments

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Area of Focus - AH-receptors

Subtopic

Reviewers Haussmann, Tricker

comments

Area of Focus - Alcohol and smoking

Subtopic

Reviewers von Holt

comments

Area of Focus - Asbestos and smoking

Subtopic

Reviewers Haussmann, Teredesai, Carchman, Sanders, Walk

comments

Area of Focus - Asthma

Subtopic

Reviewers von Holt, Dempsey, Davies

comments

Area of Focus - Biomarkers

Subtopic

Reviewers Schepers, Davies, Tricker, Leyden

comments

Area of Focus - Buerger's disease

Subtopic

Reviewers

comments

Area of Focus Cancer

Subtopic

Reviewers

comments

Area of Focus Cardiovascular effect

Subtopic

Reviewers

comments

Area of Focus Cell cycle regulation genes (e.g. P53, P16)

Subtopic

Reviewers Schlage, Gebel, Tricker

comments

2073264336

P0622

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Area of Focus chronic bronchitis

Subtopic

Reviewers von Holt

comments Koller will review the possible respiratory effects in the endotoxin topic under tobacco

Area of Focus Combination effects

Subtopic

Reviewers

comments

Area of Focus Development and reproductive effects

Subtopic

Reviewers Dempsey

comments

Area of Focus - Digestive

Subtopic

Reviewers

comments

Area of Focus Effects of low tar products

Subtopic

Reviewers Walk, Sanders, Carchman

comments

Area of Focus - Endocrine disruptors

Subtopic

Reviewers Koller

comments In this review only the environmental reproductive aspect will be considered

Area of Focus * ETS Exposure

Subtopic

Reviewers Dempsey, Sanders

comments

Area of Focus - Genetic susceptibility

Subtopic

Reviewers Haussmann, Tricker

comments

Area of Focus Immunological effects

Subtopic

Reviewers Haussmann, Friedrichs, Davies

comments

2073264337

Area of Focus * Maternal smoking

Subtopic

Reviewers Dempsey, Sanders

comments

Area of Focus Mechanism

Subtopic

Reviewers

comments

Area of Focus - Mechanisms of arteriosclerosis

Subtopic

Reviewers von Holt

comments

Area of Focus - Mechanisms of lung cancer

Subtopic

Reviewers Haussmann, Schlage, Tricker, Carchman

comments

Area of Focus - Musculoskeletal

Subtopic

Reviewers

comments

Area of Focus - Ocular

Subtopic

Reviewers Sanders, Walk

comments

Area of Focus Other effects

Subtopic

Reviewers

comments

Area of Focus - Oxidative stress

Subtopic

Reviewers Muller, Schlage, Haussmann

comments

Area of Focus - Radon and smoking

Subtopic

Reviewers Haussmann, Schaffernicht

comments

2073264338

DRAFT

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Area of Focus - Raynaud's disease

Subtopic

Reviewers

comments

Area of Focus Respiratory effects

Subtopic

Reviewers

comments

Area of Focus - SIDS

Subtopic

Reviewers Dempsey, Sanders

comments

Area of Focus - Skin

Subtopic

Reviewers

comments

Area of Focus - Stroke

Subtopic

Reviewers von Holt

comments

2073264339