EXPERT PANEL FOR FRAGRANCE SAFETY MEETING

Final Minutes

September 25-27, 2024

Tarrytown, New York

EXPERT PANEL MEMBERS	RIFI	Guests	
Donald Belsito (Chair) Magnus Bruze Amanda Bryant-Friedrich G. Allen Burton, Jr. Mark Cronin Maria Dagli (Vice-Chair) Wolfgang Dekant Allison Fryer Debra Laskin Trevor Penning Aldert Piersma Terry Schultz I Glenn Sipes	Anne Marie Api Adrianna Bartlett (Virtual) Danielle Botelho Olive Chon (Virtual) Sam Crotty (Virtual) Chaitra Deodhar (Virtual) Marissa Guttenberg (Virtual) Leah Jones Kaushal Joshi (9/26)	Maura Lavelle (Virtual) Isabelle Lee (9/26-27) Holger Moustakas Jake Muldoon Gretchen Ritacco (9/25-26) Faiz Siddiqi (9/25) Gary Sullivan (9/25) Yax Thakkar (9/.27)	Tobey Marzouk (9/26) Robert Weinstein (9/26)

1) Discussion of the Meeting Schedule and Agenda Topics

a) Completion/Signing of the Conflict-of-Interest Statement

Dr. Belsito opened the meeting. The Conflict-of-Interest Statement was signed.

2) Minutes

The minutes from the May 2024 meeting were approved with no changes.

3) Follow-Up and Informational Items

a) Follow-Up List

Dr. Api went through the follow-up list and provided updates on items and general comments where applicable.

4) Standing Items (For Expert Panel information only; per Panel's request)

a) RIFM Publications

The Panel reviewed the RIFM publication list. This is a standing item on the agenda, which provides a summary of all RIFM's recent publications.

b) RIFM Safety Assessment Publications

The Panel reviewed the RIFM safety assessment publications list. This list is an ongoing list of all the published safety assessments.

5) RIFM Communication

a) Presentation - Update on RIFM

Dr. Api provided an overview of RIFM activities (see Attachment 1).

b) Presentation by Editing/Communications Team on Communications Update

Mr. Sullivan and Siddiqi and Ms. Chon provided an update on the RIFM communication plans, safety assessment publications, and the Fragrance Resource Center website (see Attachment 2).

c) Communicating risk and safety

Dr. Api provided an update on RIFM activities to communicate risk and safety.

6) Panel Governance and Procedures

a) Review Panel's Conflict of Interest Policy

Mr. Marzouk reviewed the Panel's Conflict of Interest Policy, and a discussion was held regarding specific issues that might arise. All Panel Members were satisfied with and made no changes to the Conflict of Interest Policy.

b) Review Panel's Operating Procedures and approve proposed amendments

Mr. Marzouk reviewed the Panel's Operating Procedures with the Panel. Some modifications were made. Mr. Marzouk will make the changes, and the updated policy will be placed on the Expert Panel's website.

c) Review and approve proposed amendments to the Transparency Policy

Mr. Marzouk reviewed the Panel's Transparency Policy with the Panel. A few modifications were made. Mr. Marzouk will make the changes, and the updated policy will be placed on the Expert Panel's website.

d) Review and approve the proposed Policy regarding Adjunct Teams

Mr. Marzouk reviewed the proposed policy regarding Adjunct Teams with the Panel. After a few modifications, the Panel approved the Policy. Mr. Marzouk will make the changes and the updated policy, and all the Adjunct Group Members will be placed on the Expert Panel's website.

e) Review the purpose, scope, and timetable of the Expert Panel Self-Assessment Survey

Mr. Marzouk discussed the Expert Panel Self-Assessment Survey's purpose, scope, and timetable. The survey will be issued within the next several weeks and the results will be reviewed at the next Panel meeting.

f) Revisit the Panel's Vision and Mission Statement

The Panel Members reviewed and were satisfied with the Vision and Mission Statement. No changes were made.

7) Presentation by Dr. Bob Weinstein

Dr. Weinstein joined the Panel for a one-hour presentation. To facilitate communications once a year RIFM's Chair (or his/her designee) updates the Expert Panel as to relevant activities and initiatives undertaken by RIFM.

8) RIFM Safety Evaluation Process

a) Presentation RIFM by D. Botelho Safety Assessment Update and Metrics

Dr. Botelho gave a presentation on the progress of the safety assessment program including the safety assessment update and metrics on naturals (see Attachment 3).

b) Presentation by L. Jones on Safety Assessment Process Update

Ms. Jones provided an update on the internal process used in generating safety Assessments (see Attachment 4).

- c) Safety Assessment Overview
 - i) (24 Total Safety Assessments including 29 Total materials)

b) General Comments

The NCS Criteria Document states that if a natural has an unknown portion, a minimum of 80% of the total composition (including the unknown portion) must be identified. RIFM will continue to monitor this.

 NCS statement 80% min, known composition based on the process that there is an unknown composition. The composition is based on the volatile portion only. The remaining is the non-volatile portion.

7) Reproduction Toxicity

a) Presentation by K. Joshi, A. Bartlett, F. Siddiqi - Update on RIFM summary of all reproduction/fertility data - Thursday, September 26

Drs. Joshi and Bartlett and Mr. Siddiqi gave a presentation updating the Panel on the RIFM summary of all reproductive/fertility data (see Attachment 5).

8) Naphtho[2,1-b] furan, dodecahydro-3a,6,6,9a-tetramethyl-, (3aR,5aS,9aS,9bR)-; CAS 6790-58-5; Update to Safety Assessment

The Panel reviewed a cluster of materials:

RIFM ID	CAS NO.	Material Name	
1169	6790-58-5	Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-,	
		(3aR,5aS,9aS,9bR)-	
5010	3738-00-9	Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-	
6490	338735-71-0	8H-Indeno(4,5-B)furan,2,3,3a,4,5,5a,6,7,8a,9-decahydro-2,6,6,7,8,8-	
		hexamethyl Mixture of isomers	
6493	647828-16-8	Indeno[4,3a-b]furan,decahydro-2,2,7,7,8,9,9-heptamethyl-	
6975	476332-65-7	2H-Indeno[4,5b] furan, decahydro-2,2,6,6,7,8,8-heptamethyl	

The Panel decided that three materials (CAS Nos. 6790-58-5, 3738-00-9, 338735-71-0) should remain in one cluster and are not sensitizers based on all the data.

The last two materials with CAS Nos. 647828-16-8 and 476332-65-7 are a mixture and should be separated from the cluster. All suppliers should be contacted and should submit a detailed certificate of analysis.

9) NCS Safety Assessments

i) Total NCS Safety Assessments: 6

Material ID	RIFM ID	Material Name	Tab	Status
1048378	6614-F2.1	Ylang ylang absolute	Tab 28	Approved with changes
1045422	6614-F2.12	Ylang ylang oil Complete	Tab 29	Approved with changes
1047239	6614-F2.12X	Ylang ylang oil extra	Tab 30	Approved with changes
1045628	6614-F2.12.1	Ylang ylang oil I	Tab 31	Approved with changes
1042866	6614-F2.12.2	Ylang ylang oil II	Tab 32	Approved with changes
1044828	6614-F2.12.3	Ylang ylang oil III	Tab 33	Approved with changes

10) Review Safety Assessments Batch 1

CAS#	Material Name	Tab	Status
13431-57-7	1,3-Propanediol, 2,2-dimethyl-, 1,3-diacetate	Tab 34	Approved
16510-27-3	1-Cyclopropylmethyl-4-methoxybenzene	Tab 35	Approved
38462-23-6	4-(4,8-Dimethylnona-3,7-dienyl)pyridine	Tab 36	Approved
1003-04-9	4,5-Dihydro-3(2H)thiophenone	Tab 37	Approved with changes
61315-75-1	4-(4-Methyl-3-penten-1-yl)-2(5H)-furanone; α,β-Acariolide	Tab 38	Approved
101-94-0	p-Tolyl phenylacetate	Tab 39	Approved
68039-69-0	1-Cyclohexylethyl 2-butenoate	Tab 40	Insufficient Data – human skin CNIH
68039-73-6	[1,1'-Bicyclopentyl]-2-yl 2-butenoate	Tab 41	Insufficient data – human skin CNIH (read across to 68039-69-0)
79-68-5	3-Buten-2-one, 4-(2,2,3-trimethyl-6-methylenecyclohexyl)-; γ-Irone	Tab 42	Approved
2497-18-9 ; 10094-40-3	trans-2-Hexenyl acetate	Tab 43	Approved

11) Review Safety Assessments Batch 2

CAS#	Material Name	Tab	Status
22030-19-9	beta-lonyl acetate	Tab 44	Approved
111-27-3	Hexyl alcohol	Tab 45	Approved with changes
111-70-6	Heptyl alcohol	Tab 46	Approved with changes
111-87-5	1-Octanol	Tab 47	Approved
143-08-8	Nonyl alcohol	Tab 48	Approved
112-30-1	1-Decanol	Tab 49	Approved
112-42-5	Undecyl alcohol	Tab 50	Approved
112-53-8	Lauryl alcohol	Tab 51	Approved
112-70-9	1-tridecanol;tridecan-1-ol;tridecaol	Tab 52	Approved
3407-42-9 ; 70955-71-4; 66068-84-6; 68877-29-2; 66072-32-0	3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol	Tab 53	Approved with changes
579-93-1	N-Benzoylanthranilic acid	Tab 54	Approved with changes
4166-20-5	4-Acetoxy-2,5-dimethyl-3(2H)furanone	Tab 55	Approved
95-65-8	3,4-Xylenol	Tab 56	Approved
576-26-1	2,6-Xylenol	Tab 57	Approved

12) Review Safety Assessments Maintenance Batch

CAS#	Material Name	Tab	Status
51519-65-4	4,4a,6,7,8,8a-Hexahydro-1,4- methanonaphthalen-5(1H)-one	Tab 59	Approved
7779-23-9	Linalyl hexanoate	Tab 60	Approved
95-16-9	Benzothiazole	Tab 61	Approved
105-68-0	Isoamyl propionate	Tab 62	Approved with changes
110-45-2	Isoamyl formate	Tab 63	Approved with changes
123-92-2	Isoamyl acetate	Tab 64	Approved with changes
540-42-1	Isobutyl propionate	Tab 65	Approved with changes
55590-83-5	Pentanoic acid, 2-methylbutyl ester	Tab 66	Approved
59052-82-3	Cyclododecyl formate	Tab 67	Approved with changes
27939-60-2; 36635-35-5; 68039-49-6; 68737-61-1; 67801-65-4; 68039-48-5; 68084-52-6; 35145-02-9	Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified)	Tab 68	Approved with changes

13) RIFM Research Projects

a) Overview of research programs

Dr. Api reported that an orientation for new Panel members to the RIFM safety assessment process as well as the RIFM Research Program was conducted prior to the September Panel meeting.

b) Epidemiology

Prof Bruze reported that EDEN is planning to submit another paper; no meetings are planned for the remaining part of this year. As part of IDEA an extended surveillance study is planned; a patch test course was held recently.

c) Presentation by Holger Moustakas and Jake Muldoon – Chemistry Research Update

Drs. Moustakas and Muldoon gave a presentation on the chemistry research projects (see Attachment 6).

d) Presentation by Isabelle Lee, Izzy Schember, Maura Lavelle, and Marissa Guttenberg - Skin Sensitization Research

Dr. Lee updated the Panel on the numerous research projects underway on skin sensitization (see Attachment 7).

e) Presentation by Gretchen Ritacco and Chaitra Deodhar - Phototoxicity Research

Ms. Ritacco and Dr. Deodhar gave presentations (see Attachments 8 and 9, respectively) summarizing the research projects investigating alternative methods to predict photoallergy.

f) Presentation by Yax Thakkar, Holger Moustakas, and Kayla Farrell on Genotoxicity Research

Drs. Thakkar, Moustakas, and Farrell gave a presentation (see Attachment 10) summarizing the genotoxicity research projects.

g) Presentation by Kaushal Joshi and Arianna Bartlett on Repeat Dose and Reproduction Toxicity

Dr. Joshi gave a presentation on the repeat dose and reproduction toxicity research projects (see Attachment 11).

14) New Expert Panel Members

The Panel thanked Dr. Terry Schultz for his expertise and 11 years he has served on the Expert Panel for Fragrance Safety. Dr. Schultz will retire from the Panel at the end of 2024. Dr. Glenn Sipes plans to retire from the Panel in 2025.

15) Panel Executive Session

The Expert Panel held an Executive Session.

19) Future Meeting Dates

a)	Monday-Wednesday,	January 27-29, 2025	Puerto Rico
b)	Tuesday-Thursday,	June 3-5, 2025	Tarrytown, NY
	RI	FM INFOX®, September 29, 2025, Paris	
c)	Wednesday-Friday,	October 1-3, 2025	Cannes/Grasse France
d)	Monday-Wednesday,	January 26-28, 2026	TBD

e) Monday-Wednesday, January 26-28, 2026 NYC
f) Monday-Wednesday September 21-23, 2026 Dublin

Respectfully submitted,

Anne Marie Api, Ph.D., Fellow ATS

anne marie api

President

Attachment 1: Presentation: Dr. Anne Marie Api

Attachment 2: Presentation: Mr. Gary Sullivan, Mr. Faiz Siddig, Ms. Oliv Chon

Attachment 3: Presentation: Dr. Danielle Botelho Attachment 4: Presentation: Ms. Leah Jones

Attachment 5: Presentation: Drs. Kaushal Joshi and Arianna Bartlett and Mr. Faiz Siddiqi

Attachment 6: Presentation: Drs. Holger Moustakas and Jake Muldoon

Attachment 7: Presentation: Dr. Isabelle Lee, Isabella Schember, Marissa Guttenberg and Ms.

Maura Lavelle

Attachment 8: Presentation: Ms. Gretchen Ritacco Attachment 9: Presentation: Dr. Chaitra Deodhar

Attachment 10: Presentation: Drs. Yax Thakkar, Holger Moustakas and Kayla Farrell

Attachment 11: Presentation: Drs. Kaushal Joshi and Arianna Bartlett