

Approved June 22, 2026

1 Minutes for International Society for Animal Genetics General Business Meeting.

2 July 25, 2025, Hybrid meeting via Zoom and on-site, Daejeon, South Korea

3

4 Approximately 170-200 people in attendance.

5 In Attendance for the Executive Committee: Christ Tuggle (president), Sofia Mikko (secretary), Klaus
6 Wimmers (treasurer), Tosso Leeb, Leslie Lyons, Richard Crooijmans and Josue Chinchilla-Vargas.

7

8 Key:

9 EC= Executive Committee; OEC = Officers of the Executive Committee; SC= Standing Committee; CT
10 = Comparison Test; GBM= General Business meeting; ISAG (or Society) = International Society for
11 Animal Genetics; IFAG (or Foundation)= International Foundation for Animal Genetics; AGE= Animal
12 Genetics; WB = Wiley Blackwell; LOC=Local Organizing Committee.

13

14 **Opening and welcome by Tuggle.**

15 Tuggle calls meeting to order at 12:13 PM KST on Friday, July 25, 2025. Tuggle notes full agenda and
16 will try to keep time but likely to exceed.

17 Tuggle thanks organizers for a great conference.

18 Approval of minutes of the Virtual General Business Meeting (June 28, 2024). Found [here](#).

19 Tuggle asks for comments on minutes from previous meeting. No objections to approving the minutes.
20 Minutes are approved by show of hands.

21 Tuggle moves on to Suzuki and Poster awards. Thanks Suzuki award judges.

22 Suzuki Award judges:

23 Klaus Wimmers

24 Tosso Leeb

25 Leslie Lyons

26 Josue Chinchilla-Vargas

27 Sofia Mikko

28 Hans Lenstra

29 Richard Crooijmans

30 Chris Tuggle

31

32 Winner was announced at Gala dinner and was Cleo Schwarz from University of Bert for abstract titled,
33 “ZMYND10 frameshift deletion in Eurasier dogs with primary ciliary dyskinesia.”

34 Tuggle thanks poster awards judges.

35 Poster Awards judges:

36 Sunday O Peters

37 Annelin Molots

38 Jiuzhou (John) Song

39 Andreia Fonseca

40 Maarten de Groot

41 Afra Al Dhaheri

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- 42 Tosso Leeb
43 Jerold Bell
44 Peng Min-Sheng
45 Huaijun Zhou
46 Ed SmithJosé Bouzada
47 Jenifer Levissee
48 Robin Everts
49 Christa Kuehn
50 Jun Mo-Kim
51 Richard Crooijmans
52 Dikeledi Malatji
53 Leslie Lyons
54 Lior David
55 Romi Pena
56 Claire Rogel-Gaillard
57 Xiaolong Wang
58 Hans Lenstra
59 Josue Chinchilla Vargas
60 Jordi Estelle
61 Cynthia Bottema
62 Maria Luigi
63 Emil Ibragimov
64 Doreen Becker
65 Gudrun Brockman
66 Anna Letko
67 Stephanie McKay
68 Siham Rahmatalla
69 Khanyisile Hadebe
70
71 Tuggle thanks Goran Anderson for organizing poster judging.
- 72 Tuggle calls name of each poster award winner. Each winner awarded a certificate and cash award of
73 Euro 200. There are 10 winners from 8 countries and highlights global nature of the conference.
- 74 Poster Award Winners:
75 Seong Jun Kim, Gyeongsang National University, Republic of Korea
76 Anna Darlene van der Heiden, Uppsala University/SciLifeLab, Sweden
77 Chumeng Zhu, Roslin Institute, The University of Edinburgh
78 Seung Je Woo, Seoul National University, Republic of Korea
79 Daniel Filipe Branco Gaspar, Universidade do Porto, Portugal
80 Jina Kim, Seoul National University, Republic of Korea
81 Ferran Llobet Cabau, Centre for Research in Agricultural Genomics (CRAG), Spain
82 Luo Lingyun, China Agricultural University, China
83 Qiongyu He, Eidgenössische Technische Hochschule Zürich, Switzerland
84 Pritam Pal, ICAR-National Dairy Research Institute, India
85
- 86 **Secretary's report (Secretary S. Mikko)**
- 87 Mikko took the stage to present her secretaries report.
- 88 Currently serving ISAG Executive Committee:
89 President, Christopher Tuggle; serving second term on EC, 2023-2027

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- 90 Treasurer, Klaus Wimmers: serving first term 2021-2025
91 Secretary, Sofia Mikko; serving second term 2021-2025
92
93 Executive Committee Members:
94 Tosso Leeb; serving second term 2021-2025
95 Sabine Hammer; serving second term 2023-2027, resigned in 2025
96 Leslie Lyons; serving first term 2023-2027
97 Richard Crooijmans; serving first term 2023-2027
98 Josue Chinchilla-Vargas; Early Career Representative, serving first term 2024-2027
99
100 Mikko notes Early Career EC member will serve only one term each time.
101 Shows new EC members
102 New ISAG Executive Committee 2025:
103 President, Christopher Tuggle, serving second term 2023-2027
104 Treasurer, Klaus Wimmers: serving second term 2025-2029
105 Secretary, Rebecca Bellone: serving first term 2025-2029
106
107 Executive Committee Members:
108 Richard Crooijmans: serving first term 2023-2027
109 Leslie Lyons: serving first term 2023-2027
110 Josue Chinchilla-Vargas; Early Career Representative, serving term 2024-2027
111 Romi Pena; serving first term 2025-2029
112
113 Below are the ISAG leadership meetings held over the last year:
114 Annual Business Hybrid Meeting 28 June 2024 – minutes on ISAG website
115 Three ISAG Executive Committee meetings
116 Four IFAG Board meetings
117 Three ISAG EC meetings with Korean LOC
118 Two Virtual IFAG & Publisher’s meeting in 2025
119 Two ISAG Standing Committee chairs meeting
120
121 Most meetings were virtual combined with numerous email conversations.
122 Mikko provides review of ISAG membership numbers. The ISAG individual membership numbers have
123 increased slightly in the period April 2010 to June 2025 and represent about 70% of the total number of
124 members. The institutional members represent about 30% of the total number of members, and have
125 increased almost 50% since 2010.

ISAG Membership numbers As of April 2010 – June 2025



Currently: 10 honorary, 174 institutional, 462 members, 8 staff

- 126
- 127 Early Career Scientist Workshop organized for first time and went well and was well attended.
- 128 Merged workshop committee request received to combine Genetics of Immune Response and Disease
- 129 Resistance Committee with Comparative MHC Genetics Committee. Membership votes to approve
- 130 merger by show of hands.
- 131 Animal Genetics testing standardization held its second workshop at the conference and can now be
- 132 approved as formal standing committee.
- 133 Membership votes to approve new standing committee of Animal Genetics Standardization.
- 134 Change in name of Equine Genetics and Thoroughbred Parentage Testing Committee to Equine Genetics
- 135 and Parentage Testing Standardization Committee. Members approves name change by show of hands.
- 136 Comparison Tests numbers reviewed for the 2024-2025 round.

Comparison tests 2024/2025

Comparison Test 2024-2025	Count of labs	STR	SNP
Cat	41	27	23
Cattle	108	87	54
Dog	102	82	46
Donkey	27	27	-
Dromedary	12	12	-
Forensic Genetics	23	23	-
Goat	36	36	-
Horse	116	107	40
Llama/Alpaca	6	6	-
Pig	25	25	-
Pigeon	16	16	-
Sheep	52	47	19
Grand Total	564	495	182

- 137
- 138 Future conferences overview:
- 139 Preparations for ISAG2027 in Perugia, Italy

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140 Prepare for ISAG conference 2029
141 Expressions of interest:
142 -Lexington, Kentucky, USA
143 -Azores, Portugal
144 -Riyad, Saudi Arabia
145

146 **Treasurer's report (Treasurer K. Wimmers)**

147 Wimmers took stage to present financial report. [insert financial report details here].

148 The financial situation of the ISAG remains very good. The assets continue to grow slightly. 75% of our
149 capital invested in fixed-rate bonds and 25% in stocks: The primary goal is to maintain the value of the
150 entire portfolio while minimizing risks.

151 Wimmers outlined financials structure regarding expense of ISAG and IFAG.

152 Noted support for journal publications

153 -APC discount of 50% for ISAG members

154 -Full APC waiver for bursary abstracts

155 -full APC waiver for STRV projects.

156 The transition of Animal Genetics to an open access journal has been postponed at Wiley's request. The
157 switch to full open access will lead to a loss of income, at least temporarily.

158 ISAG is based in the Netherlands. Therefore, a Dutch address is required for correspondence with the
159 Chamber of Commerce. **Leanne van de Goor** has kindly taken on this task.

160 **Anke Förster** served as financial administrator; she is stepping down from this position at her own
161 request this year.

162 2024 financial are preliminary as audit is not finalized. Audit procedure has becoming increasing
163 complex.

ISAG Balance sheets 31/12/23 Audit report, Schuiteman Audit & Assurance B.V., March 26, 2025	Dec,2021	Dec,2022	Dec, 2023	Dec,2024	
	[Euro]	[Euro]	[Euro]	[Euro]	
ASSETS					• What we own
current assets					
other accounts receivable	225,224	368,283	362,156	464,959	
securities	639,482	575,722	630,764	643,908	
cash and cash equivalents	22,972	28,676	21,117	28,784	
TOTAL ASSETS	887,678	972,681	1,014,037	1,137,651	
EQUITY AND LIABILITIES					• What is left over
equity					
appropriated research reserve	60,000	60,000			
other reserves	731,430	801,487	930,854	1,031,421	
appropriated fund Dr. Yoshiko Suzuki	1,876	1,876			
Sum	793,306	863,363	930,854	1,031,421	
Current liabilities					• What we owe
trade creditors	6,118	1,915	1,211		
other liabilities	88,254	107,403	81,972	106,230	
other accruals					
Sum	94,372	109,318	83,183		
Balance	887,678	972,681	1,014,037	1,137,651	<ul style="list-style-type: none"> → the assets continue to grow slightly → ISAG's financial status continues to be very good

164

165

Profit and loss Account 31/12/23 Audit report, Schuiteman Audit & Assurance B.V., March 26, 2025		2021	2022	2023	2024
		[Euro]	[Euro]	[Euro]	[Euro]
	INCOME				
	membership fees	95,075	101,621	95,810	88,584
	gift from foundation	19,000	54,847	-	
	net results investments	41,575	-51,434	42,442	45,268
	SUM	155,650	105,034	138,252	133,852
	EXPENSES				
	executive committee	5,304	16,752	7,666	10,948
	FASS	11,163	9,678	21,116	17,182
	audit costs	4,573	4,755	5,696	3,246
	insurance	726	726	709	653
	accounting costs	2,605	2,252	1,875	335
	other general expenses	2,114	814	856	921
	Plenary Invited speakers			23,248	
	Poster & Suzuki awards, workshop			9,595	
	keynotes				
	STRV				
	SUM expenses	26,485	34,977	70,761	33,285
	TOTAL Profit	129,165	70,057	67,491	100,567

166

Profit and loss Account		2021	2022	2023	2024	forecast
		[Euro]	[Euro]	[Euro]	[Euro]	2025
31/12/23 Audit report, <u>Schuiteman Audit & Assurance B.V.</u> , March 26, 2025 31/12/24 Draft Annual Report, <u>Schuiteman Audit & Assurance B.V.</u> , May 26, 2025	INCOME					
	membership fees	95,075	101,621	95,810	88,584	90,000
	gift from foundation	19,000	54,847	-		
	net results investments	41,575	-51,434	42,442	45,268	35,000
	SUM	155,650	105,034	138,252	133,852	125,000
	EXPENSES					
	executive committee	5,304	16,752	7,666	10,948	25,000
	FASS	11,163	9,678	21,116	17,182	30,000
	audit costs	4,573	4,755	5,696	3,246	6,000
	insurance	726	726	709	653	800
accounting costs	2,605	2,252	1,875	335	1,200	
other general expenses	2,114	814	856	921	2,000	
Plenary Invited speakers			23,248		-	
Poster & Suzuki awards, workshop					-	
keynotes			9,595		-	
STRV					50,000	
SUM expenses	26,485	34,977	70,761	33,285	115,000	
TOTAL Profit	129,165	70,057	67,491	100,567	10,000	

167

168 Wimmers Provided update on short term research visit. In addition to organising congresses and
 169 conducting international comparative tests, another measure is to support of **short-term scientific**
 170 **exchange visits STRV**. 6 applications received and 5 approved. Details can be found here:
 171 <https://www.isag.us/STRV.asp>

172 ISAG provided 150 bursaries in 2023 and 50 bursaries in 2025 aid by IFAG.

173 ISAG will assume financial responsibility specifically for measures that support scientific excellence and
 174 knowledge exchange at ISAG conferences, with a particular emphasis on early-career development.
 175 These measures include:

- 176 -Bursaries for early-career researchers,
- 177 -Financial support for invited plenary and workshop speakers,
- 178 -Grants for STRVs
- 179 -ISAG Member APC Discount

180 -Full APC Waiver for Bursary Abstracts

181 -Full APC Waiver for STRV projects

182 ISAG Statutes require audit.

183 Article 15,5:

184 *Regarding the fairness of the documents referred to in the previous paragraph, an opinion from a*
 185 *certified public accountant must be submitted to the General business Meeting.*

186 *Audit* required; but rules becoming more stringent, particularly regarding any financial relationship with
 187 commercial entities

188 **Current Audit Approach Evaluation:**

189 To remain aligned with current auditing practices, there are currently 2 formal assurance options:

190 1. ISAE 3402 Type 2 Report: A comprehensive third-party audit that assesses the design and operational
191 effectiveness of internal controls relevant to the services provided that impact FBN financial statements.

192 2. Direct Assessment of Controls: The auditor performs a direct review of the design and existence of
193 processes and controls.

194 **Suggested Alternative Approaches:**

195 Given the cost and administrative burden of full assurance audits, we are also considering a less resource-
196 intensive reporting approach:

197 **-Review Assignment (Limited Assurance):** The auditor performs limited procedures (e.g., inquiries,
198 analytical reviews) to identify material misstatements. This approach is less rigorous and less costly than
199 a full audit, but still offers a baseline level of assurance.

200 **-Compilation Assignment (No Assurance):** The auditor compiles financial information based on data
201 provided by management, without verifying or assessing controls.

202 **Proposed Amendment – Article 15.5**

203 Regarding the fairness of the documents referred to in the previous paragraph, **either a review report or**
204 **a compilation report**, prepared by a certified public accountant in accordance with internationally
205 recognized standards, shall be submitted to the General Members Meeting."

206 -Summary of Allowed Reporting (After Amendment):

- | | | |
|-----|--|--|
| 207 | • Audit report (ISA 700): | <input checked="" type="checkbox"/> Permitted (optional) |
| 208 | • Review report (ISRE 2400/2410): | <input checked="" type="checkbox"/> Accepted |
| 209 | • Compilation report: | <input checked="" type="checkbox"/> Accepted |

210 This Means:

211 **Audit Report:** *"In our opinion" = positive assurance*

- 212 • *The auditor positively confirms that the financial statements are free of material misstatement*

213 **Review Report:** *"Nothing has come to our attention" = negative assurance*

- 214 • *The auditor has not found any material problems*

215 **Compilation report:** just a compilation of figures, not a "judgement"

216

217 **Editor's report (Editor J. Lenstra)**

218 Lenstra took stage to provide editor's report for Animal Genetics [insert details of editor's report]

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219 High submission in 2020 to nearly 400 and then dropped but is now recovering after 2023 and stabilizing.
220 Drop in submission Lenstra attributes to lack of full open access journal. About 40% of submission are
221 from China.

222 Impact factor has been dropping since 2020 and this could also be attributed to lack of OA. Also well
223 cited reviews a few years ago and as they fall off the calculations and lack of newer well cited reviews,
224 this will also cause some decline.

225 Tuggle takes stage and gives out plaques honoring those EC members who are leaving the committee and
226 their role within ISAG.

227 [insert their names here]

228 Tuggle asked Mikko to present a review of workshop committee responsibilities and administration.

229 7. Update on Future of ISAG Survey (C. Tuggle)

230 Tuggle retakes stage to review progress and new possibilities related to the member survey. [insert info
231 but note he has popups with more info so you 'll have to click through the PPT file]

232 8. Perugia 2027 Conference presentation

233 Lasagna take stages and invites everyone to Perugia, Italy for 2027. Video played.

234 Next Steps:

235 1. Preparation of Amendments to the Statutes by the ISAG Board/Executive Committee
236 – Draft the exact wording of the proposed amendment(s)

237 2. Convene General Business Meeting (GBM)
238 – Send invitation stating that a statute amendment will be discussed and voted on
239 – Timing requirement: 14 days prior to the GBM

240 3. Vote at the General Members Meeting
241 – Amendment must be approved by an absolute majority

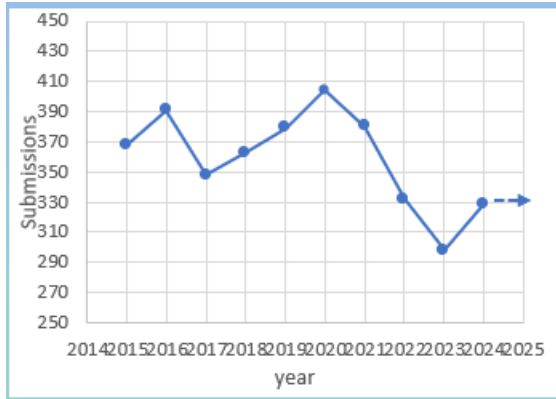
242 4. Execute Notarial Deed
243 – If approved, the amendment must be recorded by notarial deed in the Netherlands
244 – The amendment becomes legally valid only after notarization

245 **Editor-in Chief Report (H. Lenstra)**

246 Lenstra presents EIC report.

247 Submissions:

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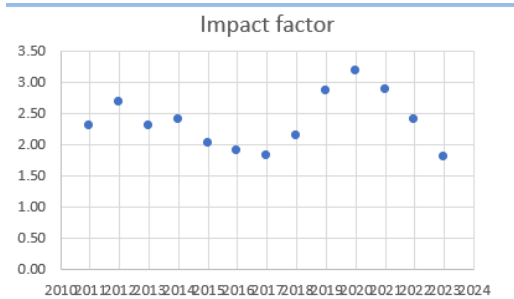
248

249 Submissions recovering after 2023. Fluctuating, but lack of open access is a plausible factor.

250 Saw higher acceptance rate in 2025

251 Per country: no major changes: ~40% from China

252 Impact Factor:



253

254 Major cause of impact factor: no Open Access (OA means 40% more citations!)

255 A few years ago, a few well-cited reviews that pushed impact factor up.

256 We provide a publishing forum also for minor species (camels, buffaloes, fishes, etc.), which will not
257 attract many citations

258 Editorial Policy:

259 No changes to editorial policy

260 Scope (see Authors' Guidelines):

- 261 • De-emphasized: immunogenetics
- 262 • Now broader than livestock: also, wildlife, laboratory animals
- 263 multi-omics, epigenetics
- 264 • Genomic selection? (Bordering on our expertise)
- 265 • Microbiomes
- 266 • By far most submissions still about livestock

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267 • A large portion of the immediate rejections are outside scope
268 (Purely development, physiologically, pathology)

269 Trends:

270 Not anymore: single-gene association studies (population stratification!); microsatellite diversity

271 Hopefully: more GWAS studies followed up by candidate-gene analysis

272 Long-read sequencing, T2T genomes, pangenomes

273 -large (Mbp) structural variations not identified by short-read WGS

274 -we will no longer consider short-read based SV papers

275 More manuscripts with eQTLs

276 More manuscripts with epigenetic data

277 Hardly any submissions on gene editing

278 Several AI generated reviews, two with AI hallucination

279 Near Future: Open Access

280 Open access (OA) becomes the norm. In most countries Article Processing Charge (APC) are covered by
281 Transformational agreements: government pays for Read & Publish

282 We are now a 'hybrid' journal with ~38% of the papers Open Access (OA)
283 APC much higher than comparable OA journals

284 Support of ISAG community with high quality

285 Rejected papers accepted by more generic journals with higher IF!

286 The ISAG community is craving for OA for better visibility and
287 impact factor better compatible with quality

288 "Flip" to OA per January 1, 2025 postponed by our publisher: "First: more submissions, higher IF" but
289 for this we need OA!!!

290 We urge for OA ASAP, accepting a temporal decrease of our income

291 Goran Andersson will be new EIC. Lenstra thanks the society and says it was an honor and responsibility
292 to be EIC. Lenstra has over seen 4000 submission and 1200 published papers. Could not have been done
293 without support of Associate editors, editorial board, ISAG Board, Wiley Staff, authors, and reviewers.

294

295 **Secretary Mikko Retakes stage to thank outgoing EC members and provide updates on workshop**
296 **responsibilities.**

297

298 Thank you to outgoing EC members:
299 Tosso Leeb, EC member
300 Sabine Hammer, EC member
301 Sofia Mikko, Secretary
302 Hans Lenstra, Editor
303

- 304 Mikko also reminds workshop committees of responsibilities and administration.
- 305 • Secretary Sofia Mikko provides the Workshop Guidelines to Workshop Chair and Committee
 - 306 • She holds a pre-conference meeting to go over duties and process to organize the Workshop. (She
 - 307 provides additional guidance as needed)
 - 308 • ISAG (Jeremy Holzner) provide electronic access to abstracts and the Workshops are organized
 - 309 • At conference, Workshop is held, including Business Meetings to elect new Workshop
 - 310 Committee (both candidates and voters required to be members of ISAG)
 - 311 • There were issues with multiple Workshops where the Workshop Chair and/or members of the
 - 312 Committee were unable to travel and the lack of people to run the Workshop was not
 - 313 communicated to the Executive Committee (who could help address this).
- 314 We propose that this be more organized as follows:
- 315 • At Workshops, the Business meeting runs as usual, with the slate of newly proposed officers and
 - 316 members of the Committee be approved by ISAG members at the Workshop.
 - 317 • The slate of Committee members/officers is sent to ISAG, who will check ISAG membership.
 - 318 • If a proposed Committee member is not a ISAG member, this will be communicated to the Chair
 - 319 and person involved. The member will either join ISAG or a replacement will be found by the
 - 320 Workshop Committee meeting electronically, and the new member communicated to ISAG
 - 321 • At the next business meeting, the final roster of each Workshop Committee is approved by ISAG
 - 322 members and is in place for the next conference year/abstract selection.
 - 323 • We will confirm that the Workshop Committee will have a majority attending the conference.
- 324
- 325
- 326
- 327

328 **Tuggle takes stage to provide summary of ISAG survey 2023 and notes detailed responses**
329 **available an ISAG website.**

330 Below are the major topics that had the most free-text responses and actions the EC has taken to address
331 them.

- 332
- 333
- 334 1. Increased support and opportunities for career development for MS/PhD students and early career
335 scientists.
 - 336 - ECS rep on EC elected (Josue Chinchilla-Vargas
 - 337 -Dr. Chinchilla-Vargas has organized event at 2025 conference focused on early career scientists
 - 338 including networking event work workshop.
 - 339 -Short-term research visits
 - 340 -Increased bursary support.
 - 341 -Additional items discussed: Create plan for additional awards for members, to expand from the
 - 342 Fellows awards to potentially awards for success during career stages.
 - 343
 - 344 2. Decreased cost for third world and less developed nation-based attendees.
 - 345 -Increased bursary support with 47% of awards from developing countries (24% Dev. Countries
 - 346 outside China).
 - 347 3. Increased emphasis and involvement of the Asia and Africa in conferences.
 - 348 - Three of last 6 in-person (50%) will have taken place in **Asia** or **Africa** (2021 was virtual).
 - 349 - We believe that the Society will continue to show interest in holding conferences on these
 - 350 continents
 - 351
 - 352 4. Improvements to the conference, of highest mention were: a) ongoing concerns regarding too many
353 simultaneous Workshops; b) increasing Plenary speaker quality, c) broadening scope of meeting and
354 speakers.

355 - Principles: Continue the rich tradition of our Workshops, but allow turn-over so new Workshops
356 can be added. Do not increase the length of the overall meeting. Do not force Workshops to meet
357 in the evening. Do not schedule Workshops on Tour afternoon.
358 - We worked closely with Workshop Chairs in 2024 and were able to develop a schedule with 4-5
359 simultaneous Workshops, yet added 2 new Workshops. We reduced the time for species
360 Workshops that also had a Comparison Test Workshop.

361
362 5. Improvements to Animal Genetics journal; specifically, suggestions for more invited reviews.
363 - Actions proposed to further address topic #5 (Executive committee plans to implement).
364 - Create an Associate Editor for *Animal Genetics* in Genome Editing research, emphasizing
365 Genome-Phenome studies. *Purpose: Help expand scope to a research area members requested*
366 *more papers to be published.*
367 -ISAG Member APC discount and Full APC Waiver for Bursay Abstracts.
368 -Additional items discussed: Providing support for Comparison Test reporting (Workshop
369 outcomes) in Animal Genetics; Providing support for Invited or Plenary speakers or other
370 eminent scientists to publish reviews in Animal Genetics; Award for most cited paper in Animal
371 Genetics since previous Conference

372
373
374

375 **Conference invitations and presentations for 2029 (C. Tuggle)**

376 Azors, Portugal provided video that was played.

377 Ted Kalbfleisch proposed Lexington Kentucky for 2029

378 Mohammed S. Alarawi proposed Riyadh, Saudi Arabia

379

380 Tuggle asks for show of hands for each location to gauge interest.

381 Azors: 48

382 Lexington: 25

383 Riyadh: 46

384 This vote is not binding and EC will make final decision.

385 No other business brought forward.

386 Tuggle adjourns meeting at 1:50 PM KST