

Supplementary items

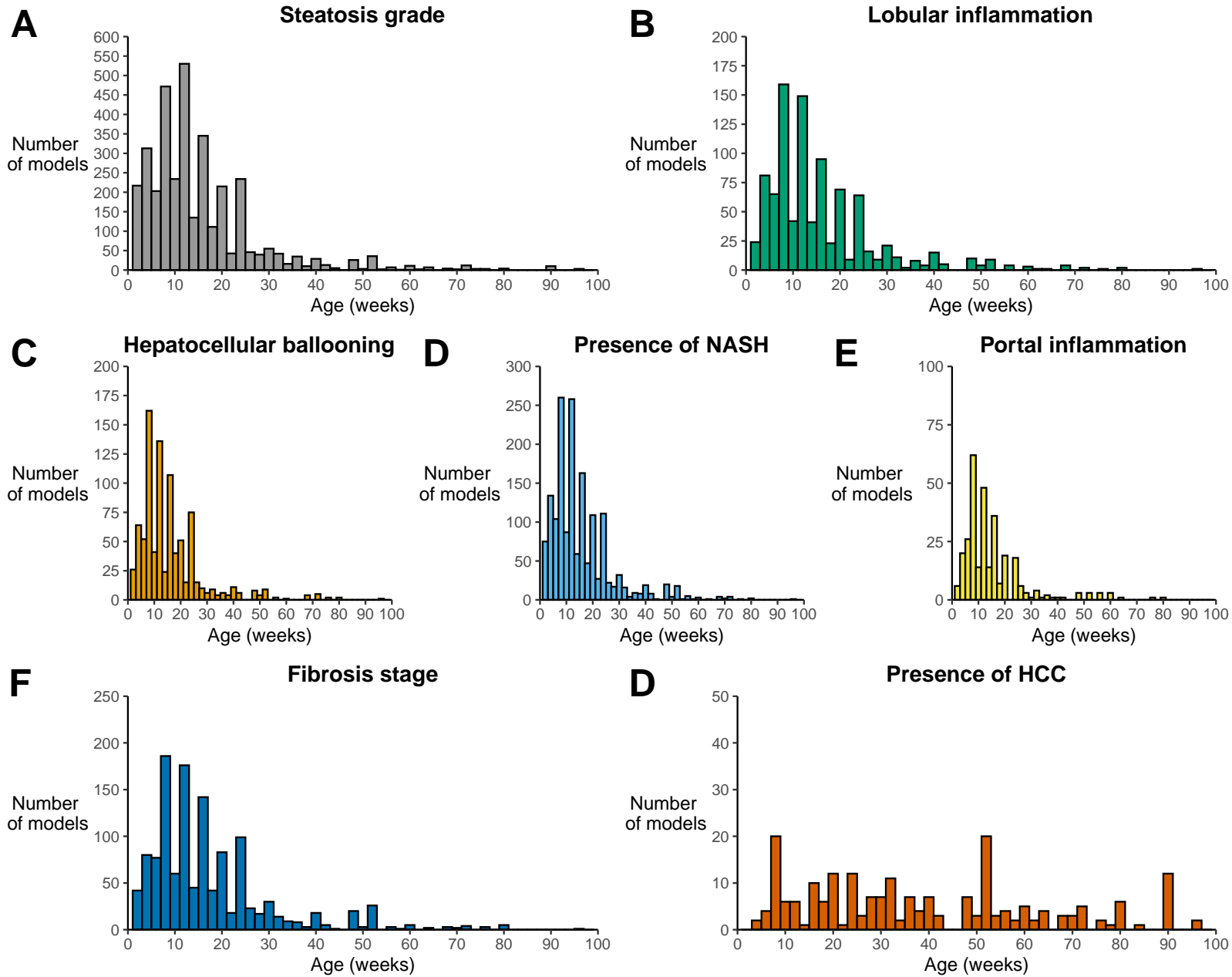
Genetic background	Overall	Dietary	Dietary + other	Genetic	Genetic + chemical	Genetic + dietary	Genetic + other	Chemical	Offspring	Other
129-C57BL/6	103 (2.6%)	27 (1.4%)	1 (1.5%)	40 (8.4%)	1 (1.5%)	33 (4%)		1 (0.3%)		
129Sv	56 (1.4%)	25 (1.3%)		11 (2.3%)	2 (3.1%)	12 (1.5%)	2 (7.7%)	4 (1%)		
A/J	16 (0.4%)	14 (0.7%)				1 (0.1%)		1 (0.3%)		
BALB/c	51 (1.3%)	26 (1.3%)	2 (2.9%)	5 (1%)		6 (0.7%)		11 (2.8%)		1 (2%)
BALB/c-C57BL/6	5 (0.1%)	2 (0.1%)		2 (0.4%)		1 (0.1%)				
C3H	37 (0.9%)	30 (1.6%)		6 (1.3%)				1 (0.3%)		
C57BL/6-C3H	4 (0.1%)	2 (0.1%)		1 (0.2%)		1 (0.1%)				
C57BL/6-Other	94 (2.4%)	42 (2.2%)		27 (5.7%)	6 (9.2%)	15 (1.8%)		4 (1%)		
C57BL/6?	693 (17.7%)	298 (15.5%)	11 (16.2%)	102 (21.4%)	15 (23.1%)	189 (22.9%)	2 (7.7%)	59 (15.1%)	8 (8.8%)	9 (18.4%)
C57BL/6J	1055 (26.9%)	457 (23.7%)	22 (32.4%)	133 (27.9%)	18 (27.7%)	306 (37%)	12 (46.2%)	81 (20.7%)	17 (18.7%)	9 (18.4%)
C57BL/6N	87 (2.2%)	55 (2.9%)		8 (1.7%)		10 (1.2%)		14 (3.6%)		
CD-1	18 (0.5%)	8 (0.4%)		2 (0.4%)		2 (0.2%)		5 (1.3%)	1 (1.1%)	
Fischer 344	42 (1.1%)	27 (1.4%)	2 (2.9%)	1 (0.2%)				10 (2.6%)		2 (4.1%)
FVB	35 (0.9%)	15 (0.8%)	1 (1.5%)	10 (2.1%)	1 (1.5%)	5 (0.6%)		3 (0.8%)		
FVB-C57BL/6	12 (0.3%)	4 (0.2%)		4 (0.8%)		4 (0.5%)				
Holtzman	13 (0.3%)	12 (0.6%)							1 (1.1%)	
ICR	53 (1.4%)	27 (1.4%)				8 (1%)		13 (3.3%)	3 (3.3%)	2 (4.1%)
KK-Ay	22 (0.6%)	3 (0.2%)		2 (0.4%)	2 (3.1%)	15 (1.8%)				
Lewis	16 (0.4%)	16 (0.8%)								
Long Evans	24 (0.6%)	10 (0.5%)		2 (0.4%)	2 (3.1%)	9 (1.1%)		1 (0.3%)		
NOD.B10	18 (0.5%)	5 (0.3%)		4 (0.8%)		9 (1.1%)				
Not stated	266 (6.8%)	61 (3.2%)	1 (1.5%)	63 (13.2%)	10 (15.4%)	105 (12.7%)	7 (26.9%)	15 (3.8%)	2 (2.2%)	2 (4.1%)
Other	209 (5.3%)	85 (4.4%)	3 (4.4%)	39 (8.2%)	3 (4.6%)	49 (5.9%)	1 (3.8%)	20 (5.1%)	3 (3.3%)	6 (12.2%)
SHR	18 (0.5%)	2 (0.1%)		4 (0.8%)		12 (1.5%)				

Sprague Dawley	488 (12.4%)	355 (18.4%)	15 (22.1%)	3 (0.6%)		8 (1%)		80 (20.5%)	18 (19.8%)	9 (18.4%)
Swiss	21 (0.5%)	13 (0.7%)	2 (2.9%)			1 (0.1%)		4 (1%)	1 (1.1%)	
Wistar	425 (10.8%)	304 (15.8%)	7 (10.3%)	2 (0.4%)		5 (0.6%)		62 (15.9%)	36 (39.6%)	9 (18.4%)
Zucker	39 (1%)	2 (0.1%)	1 (1.5%)	6 (1.3%)	5 (7.7%)	20 (2.4%)	2 (7.7%)	2 (0.5%)	1 (1.1%)	

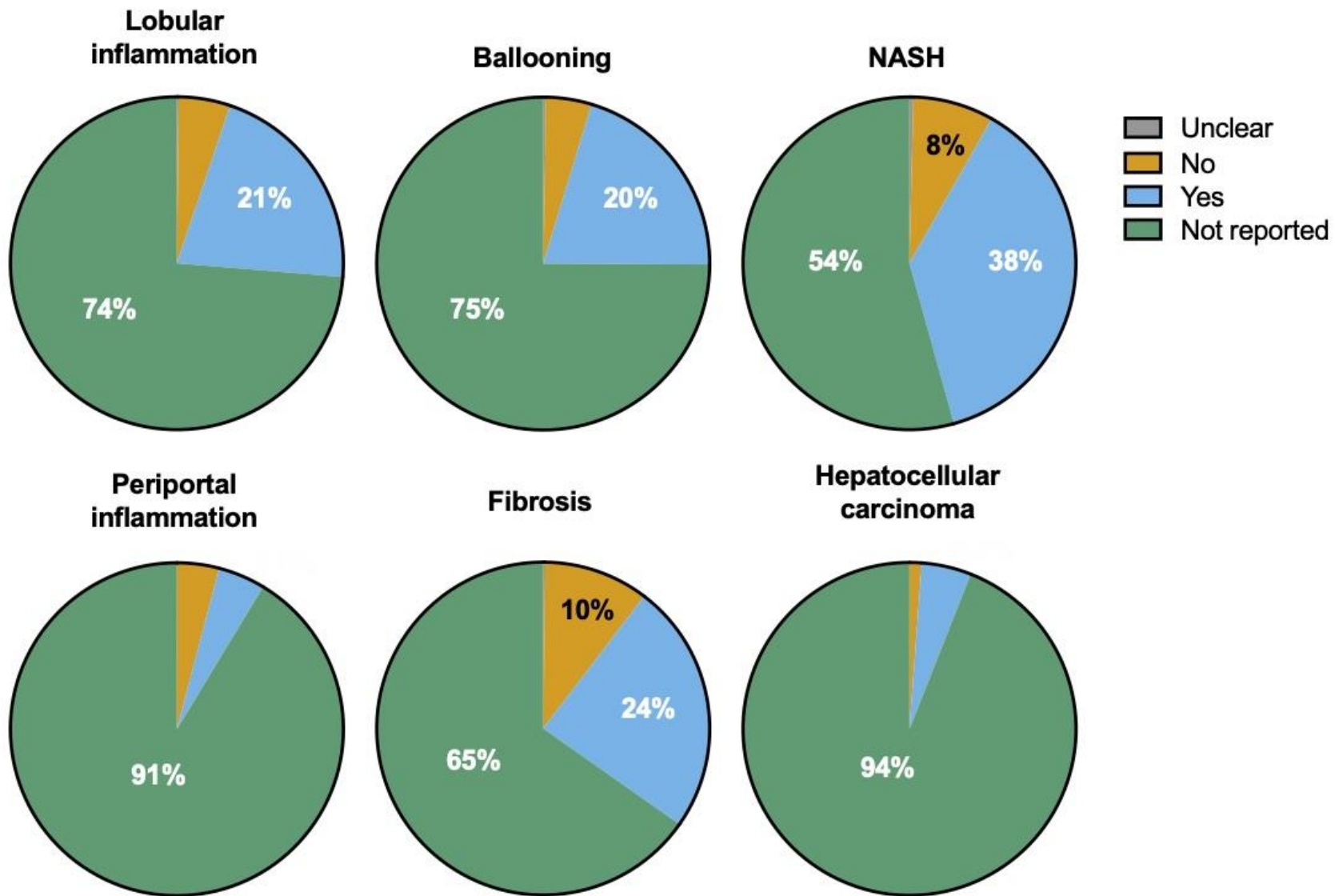
SupTab 1: Genetic backgrounds used in rodent models of NAFLD. Data from 3920 rodent models of NAFLD with the 27 most frequently used genetic backgrounds, divided by model category.

SupTab 2 [Excel spreadsheet]: Rodent models of NAFLD with specific characteristics (cirrhosis, HCC, portal inflammation, lipodystrophy). Models that were used by at least two studies and showed either: cirrhosis (fibrosis stage 4) at <20 weeks, HCC at <30 weeks or periportal inflammation. In addition, lipodystrophic models are listed.

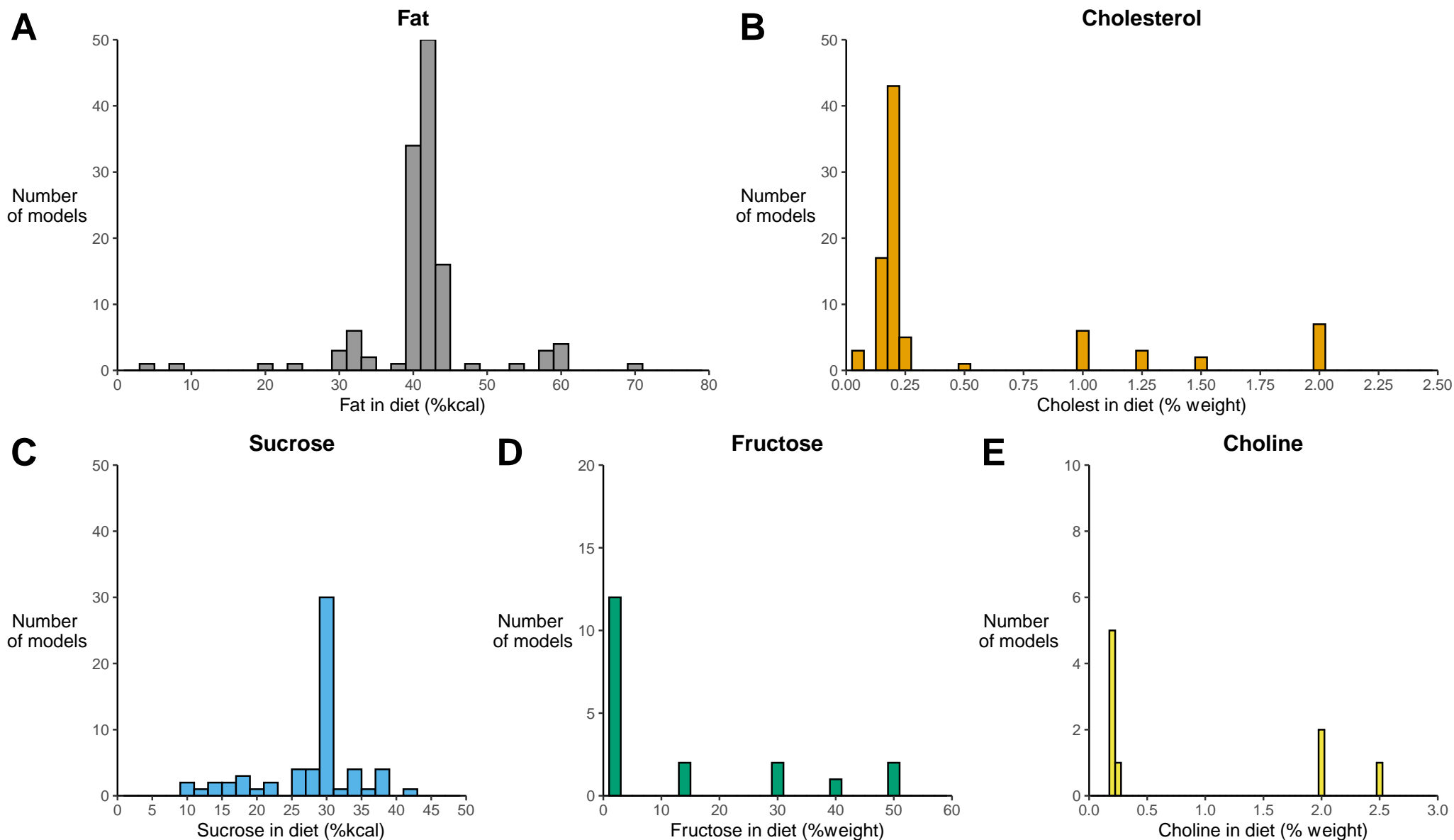
SupTab 3 [Excel spreadsheet]: Summary results from gene set enrichment analysis of human orthologues from genetically modified rodents with exacerbated NAFLD. Results from EnrichR analysis of 433 genes.



SupFig. 1: Age at description of histological features of NAFLD. Histograms illustrating that maximum age that models reported the presence of each histological feature of NAFLD.

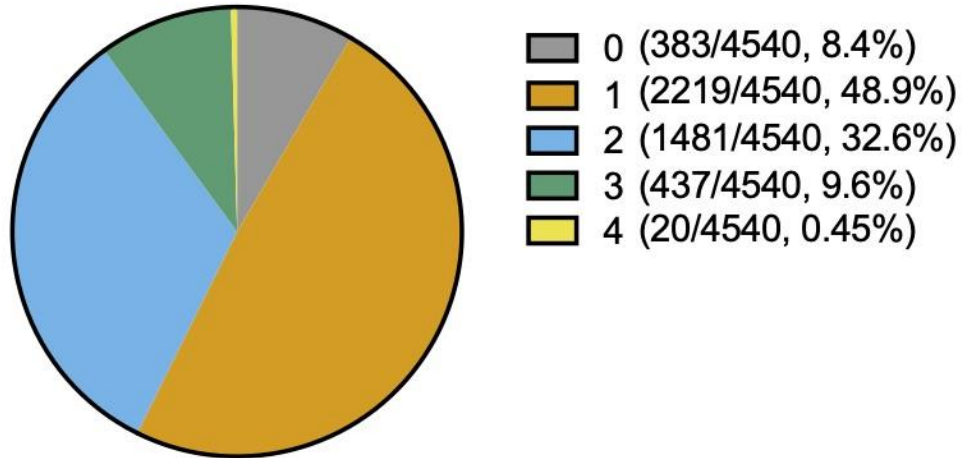


SupFig. 2: Reporting of histological features. Proportion of studies reporting each histological feature in 3657 unique rodent models of NAFLD where histological features were described. 'Unclear' refers to conflicting reports of histological features in multiple studies.

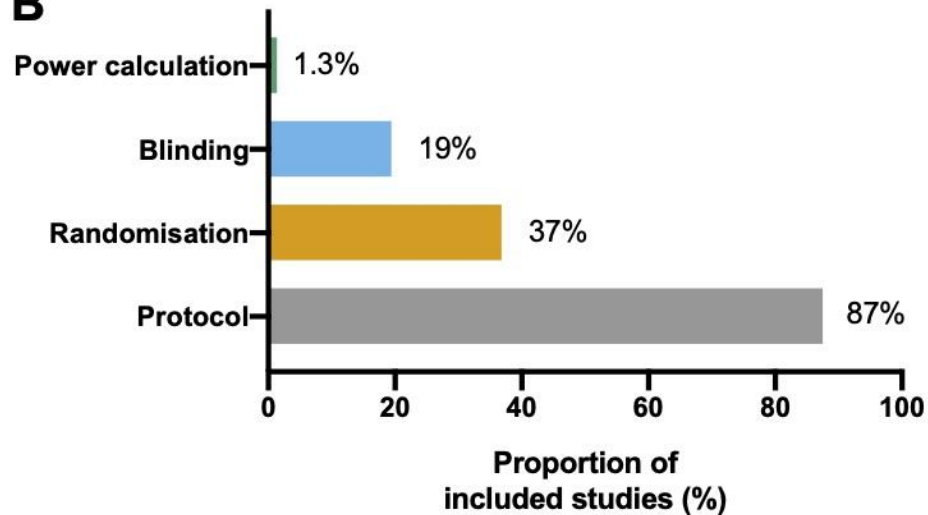


SupFig. 3: Composition of 'Western' diets. Data from 149 rodent 'Western diet' models. (A) Proportion of total dietary kcal from fat. (B) Percentage of diet as cholesterol (by weight). (C) Proportion of total dietary kcal from sucrose. (D) Percentage of diet as fructose/glucose (either alone or in combination). (E) Percentage of diet as choline (by weight). The dotted line represents the mean value.

A Overall quality score



B



SupFig. 4: Risk of bias of included studies. Studies were assessed for the use of a power calculation, blinding, randomisation, and a pre-specified protocol. Each factor was given a score of 1 to generate an overall risk of bias score of 0-4. (A) Distribution of overall risk of bias scores across 4540 included studies. (B) Proportion of studies meeting each of the bias metrics.