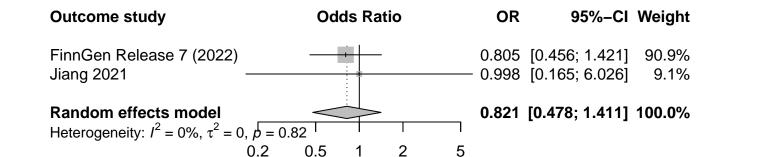
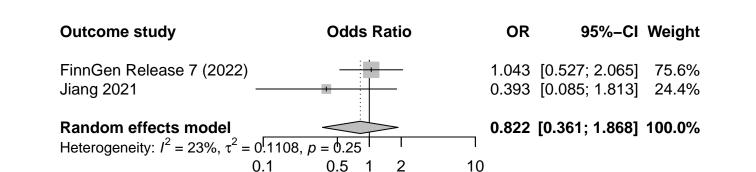
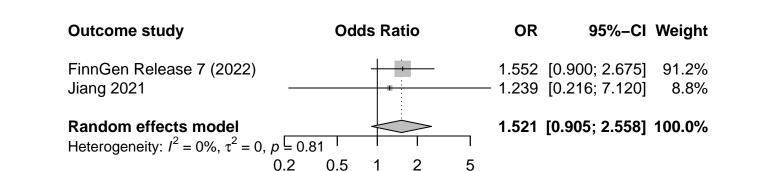
Acidaminococcaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



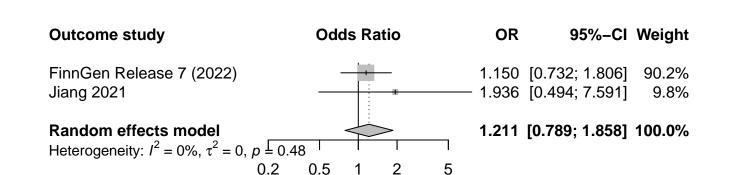
Actinobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022



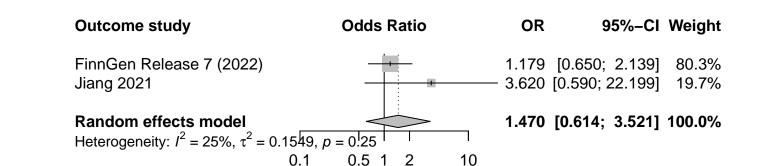
Actinobacteria (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



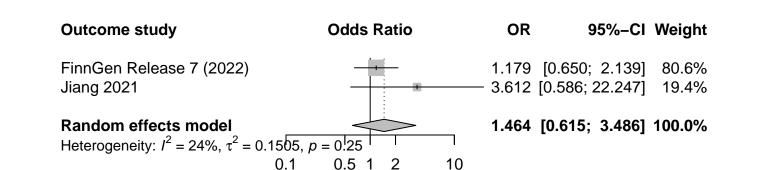
Actinomyces (Genus) on Optic nerve swelling in Kangcheng Liu 2022



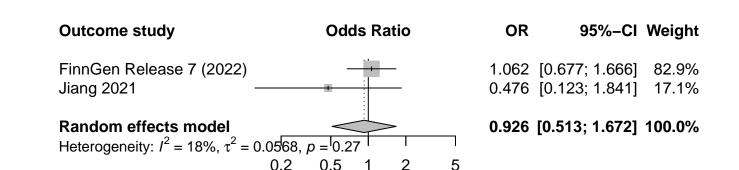
Actinomycetaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



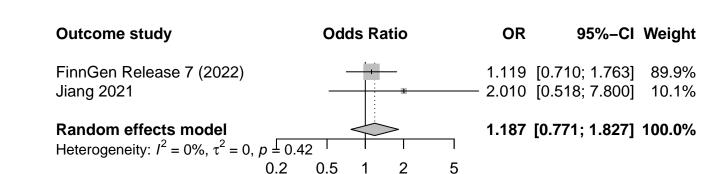
Actinomycetales (Order) on Optic nerve swelling in Kangcheng Liu 2022



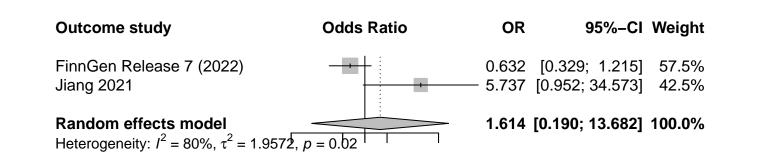
Adlercreutzia (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Akkermansia (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Alcaligenaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



10

0.5 1 2

Alistipes (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Alistipes (Gerius) ori Optio	There swelling in	rangu	lerig Liu 2022
Outcome study	Odds Ratio	OR	95%-Cl Weight

FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p = 0.400.1

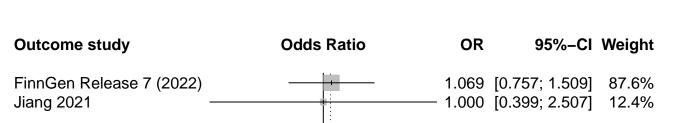
0.708 [0.392; 1.279] 89.2%

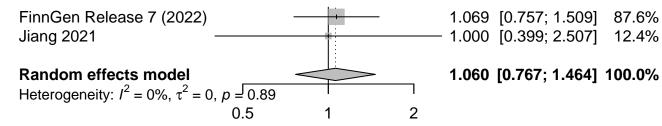
0.326 [0.060; 1.778] 10.8%

0.651 [0.372; 1.138] 100.0%

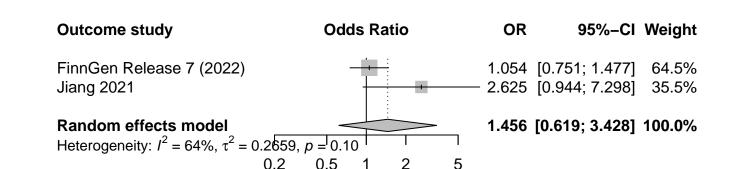
0.708 [0.392; 1.279] 89.2%

Allisonella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

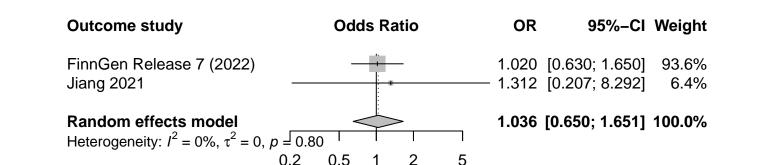




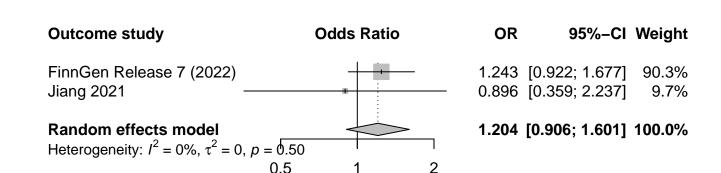
Alloprevotella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



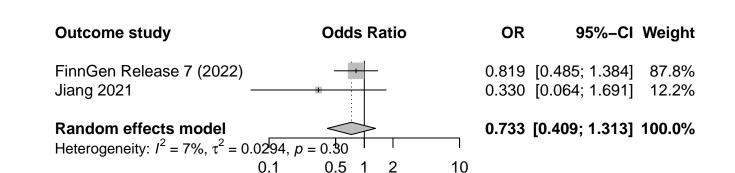
Alphaproteobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022



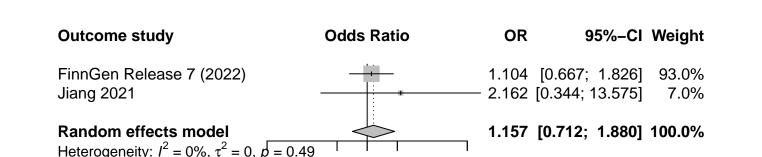
Anaerofilum (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Anaerostipes (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Anaerotruncus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



10

0.5 1

Bacillales (Order) on Optic nerve swelling in Kangcheng Liu 2022

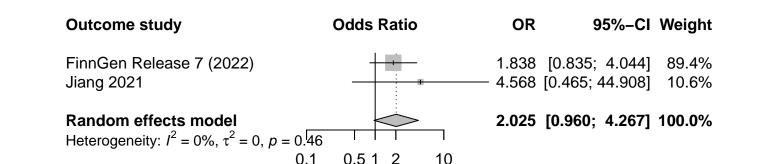
Outcome study	Odds Ratio	OR	95%-CI	Weight
FinnGen Release 7 (2022) Jiang 2021			[0.804; 1.384] [0.454; 4.187]	

Random effects model 1.071 [0.822; 1.394] 100.0% Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p = 0.65

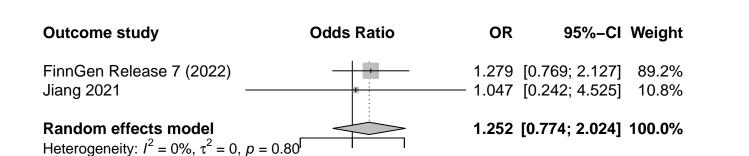
Bacilli (Class) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR	95%-CI	Weight
FinnGen Release 7 (2022) Jiang 2021		-).538; 1.258]).382; 4.835]	
Random effects model Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0$	0.46	0.865 [0	.579; 1.294]	100.0%

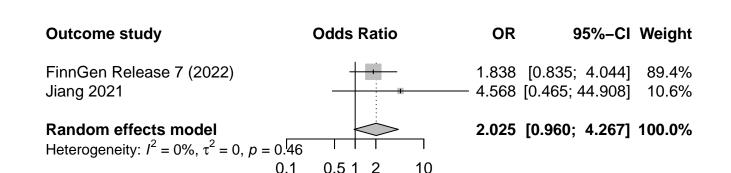
Bacteroidaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



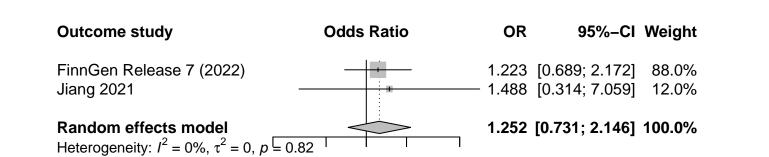
Bacteroidales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Bacteroides (Genus) on Optic nerve swelling in Kangcheng Liu 2022

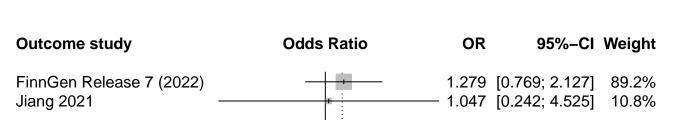


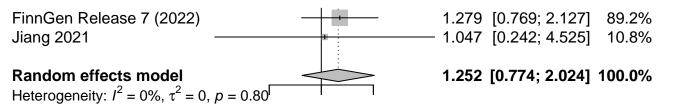
Bacteroidetes (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



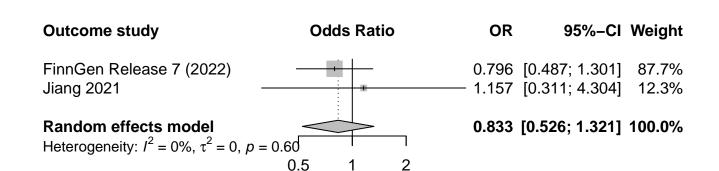
0.2

Bacteroidia (Class) on Optic nerve swelling in Kangcheng Liu 2022





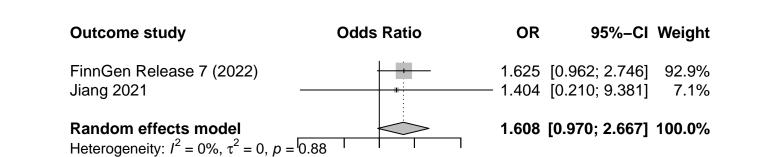
Barnesiella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Betaproteobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022

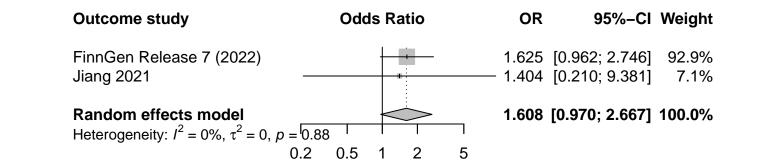
Outcome stud	dy	Odds R	atio		OR	95%-CI	Weight
FinnGen Release Jiang 2021	ase 7 (2022)	-	-			[0.442; 1.616] [0.559; 18.474]	
Random effect Heterogeneity:	cts model $I^2 = 49\%, \tau^2 = 0.4388, I$	p = 0.16	\rightarrow	\neg	1.274	[0.381; 4.263]	100.0%
	0.1	0.5 1	2	10			

Bifidobacteriaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022

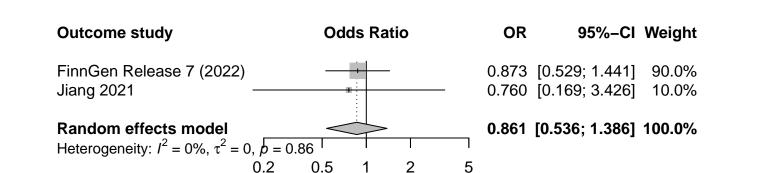


0.2

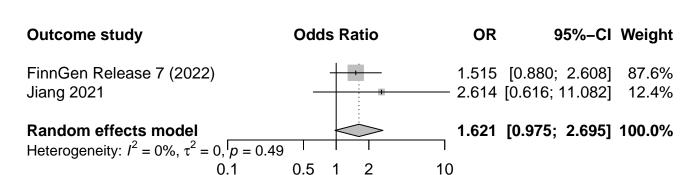
Bifidobacteriales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Bifidobacterium (Genus) on Optic nerve swelling in Kangcheng Liu 2022

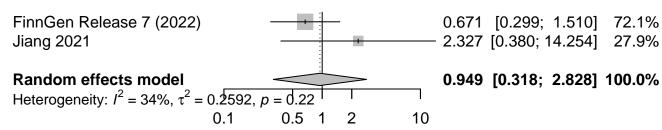


Bilophila (Genus) on Optic nerve swelling in Kangcheng Liu 2022

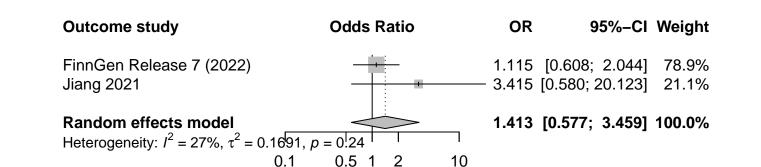


Blautia (Genus) on Optic nerve swelling in Kangcheng Liu 2022

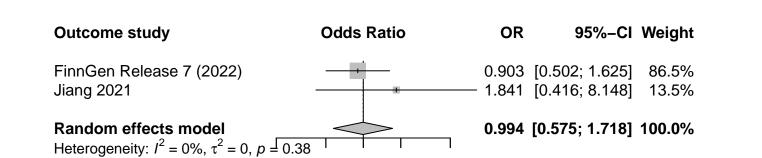
, ,	•		· ·
Outcome study	Odds Ratio	OR	95%-CI Weight
	— 1	- -	



Burkholderiales (Order) on Optic nerve swelling in Kangcheng Liu 2022



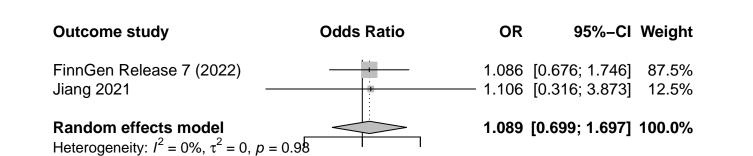
Butyricicoccus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



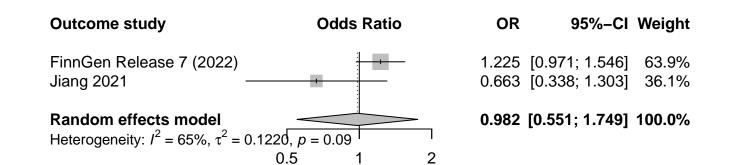
5

0.2 0.5 1

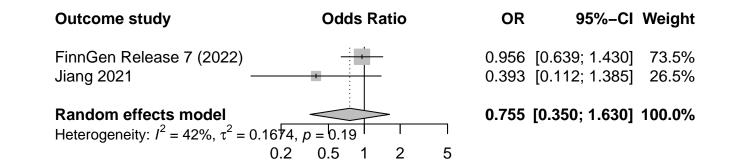
Butyricimonas (Genus) on Optic nerve swelling in Kangcheng Liu 2022



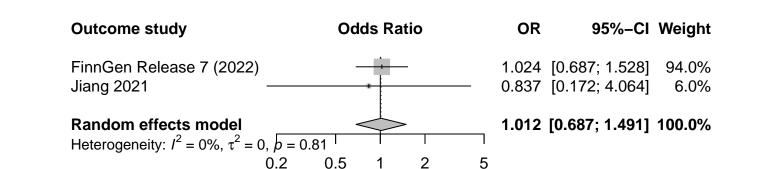
Butyrivibrio (Genus) on Optic nerve swelling in Kangcheng Liu 2022



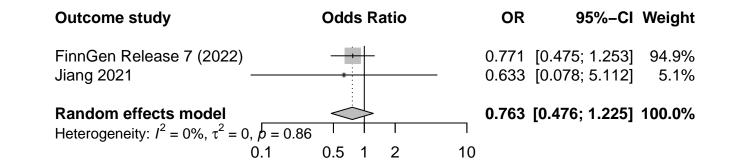
Candidatus Soleaferrea (Genus) on Optic nerve swelling in Kangcheng Liu 2022



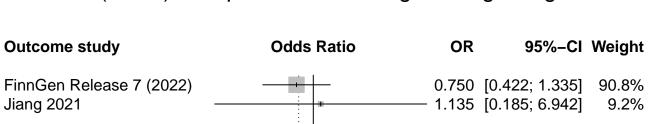
Catenibacterium (Genus) on Optic nerve swelling in Kangcheng Liu 2022

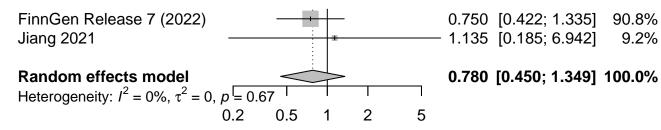


Christensenellaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022

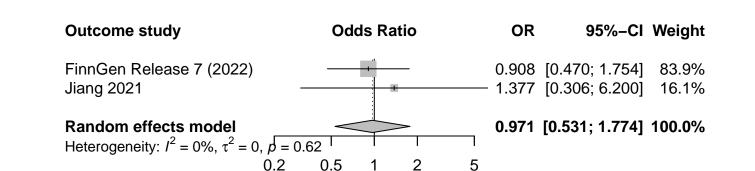


Clostridia (Class) on Optic nerve swelling in Kangcheng Liu 2022

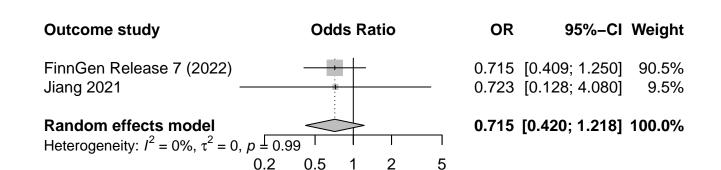




Clostridiaceae1 (Family) on Optic nerve swelling in Kangcheng Liu 2022



Clostridiales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Outcome study Odds Ratio OR 95%-CI Weight

diales vadin BB60 Group (Family in Clostridiales Order) on Optic nerve swelling in Kangcheng Li

FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 57\%$$
, $\tau^2 = 0.2542$, $p = 0.13$

0.711 [0.462; 1.095] 66.0%

1.826 [0.589; 5.655] 34.0%

0.980 [0.408; 2.353] 100.0%

 Outcome study
 Odds Ratio
 OR
 95%-CI Weight

 FinnGen Release 7 (2022)
 1.158 [0.769; 1.745] 82.9%

dium innocuum Group (Species in Clostridium Genus) on Optic nerve swelling in Kangcheng Liu

FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $\rho = 0.78$

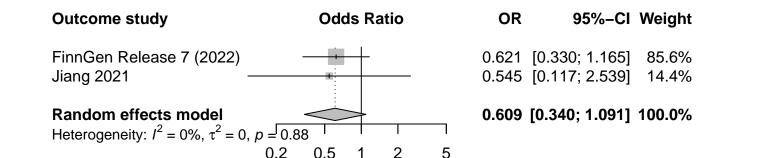
0.5

1.158 [0.769; 1.745] 82.9%

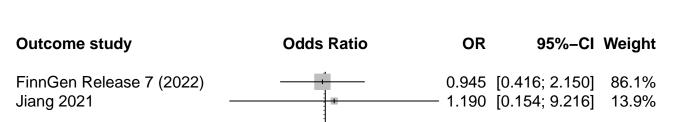
1.004 [0.407; 2.480] 17.1%

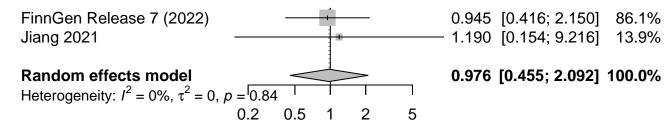
1.130 [0.778; 1.642] 100.0%

Clostridium sensu stricto1 (Genus) on Optic nerve swelling in Kangcheng Liu 2022

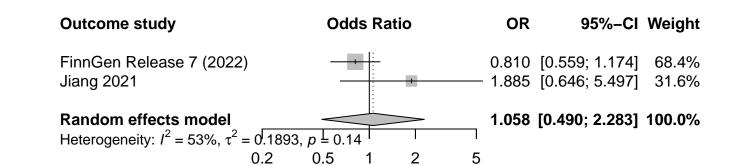


Collinsella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

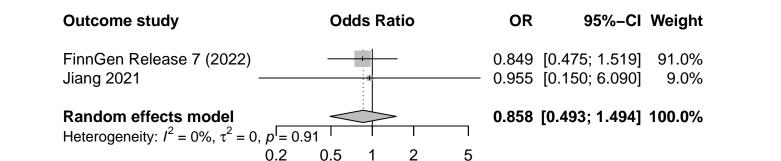




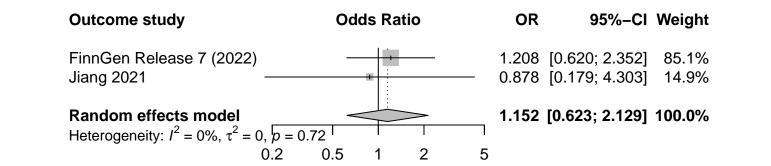
Coprobacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



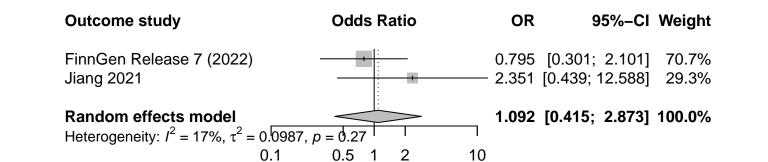
Coprococcus1 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



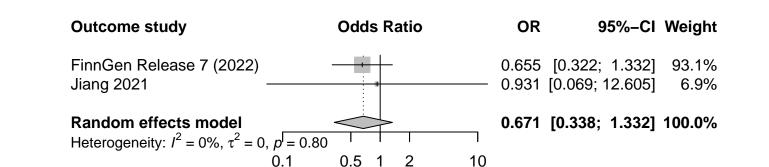
Coprococcus2 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



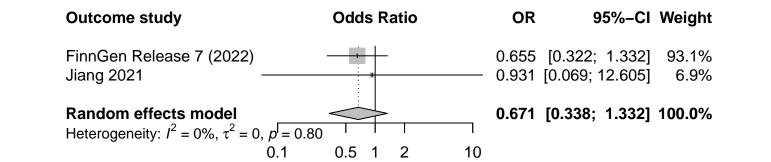
Coprococcus3 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



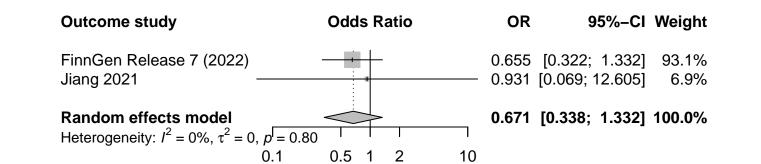
Coriobacteriaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



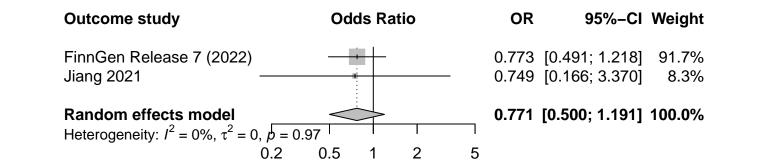
Coriobacteriales (Order) on Optic nerve swelling in Kangcheng Liu 2022



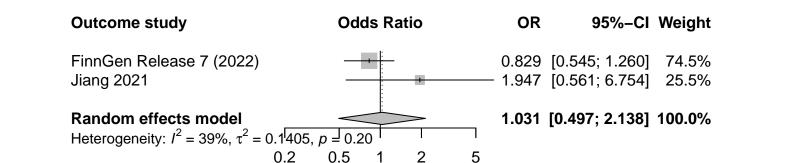
Coriobacteriia (Class) on Optic nerve swelling in Kangcheng Liu 2022



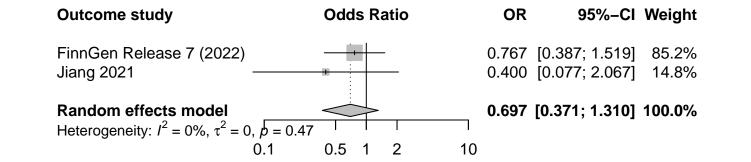
Cyanobacteria (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



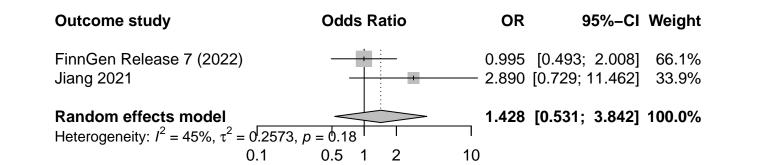
Defluviitaleaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



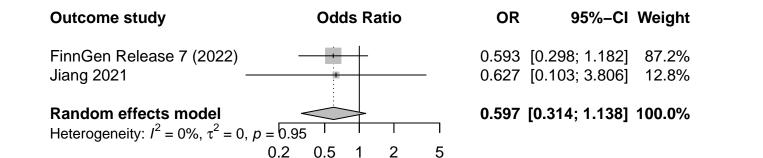
Deltaproteobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022



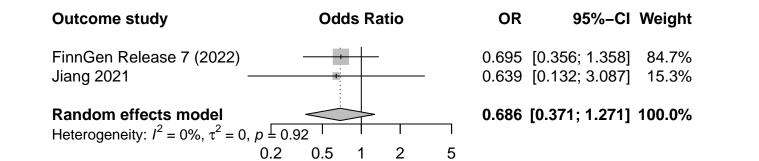
Desulfovibrio (Genus) on Optic nerve swelling in Kangcheng Liu 2022



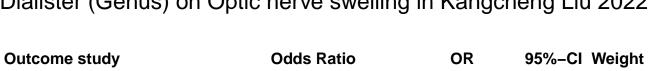
Desulfovibrionaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



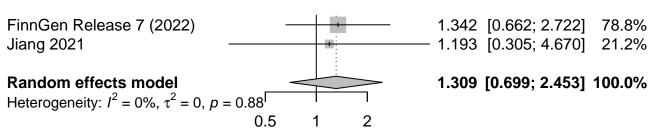
Desulfovibrionales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Dialister (Genus) on Optic nerve swelling in Kangcheng Liu 2022



78.8%



Dorea (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR	95%-Cl Weight	t
FinnGen Release 7 (2022) Jiang 2021 ——	-	-	.642; 2.126] 65.6% .035; 1.505] 34.4%	
Random effects model		0.669 [0.	148; 3.029] 100.0%)

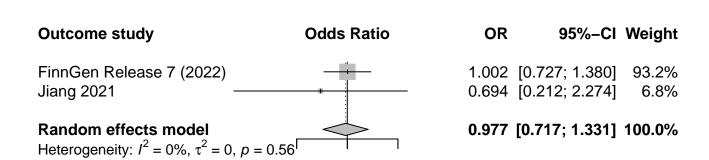
Random effects model

Heterogeneity:
$$I^2 = 62\%$$
, $\tau^2 = 0.8110$, $p = 0.11$

0.1

0.5
1

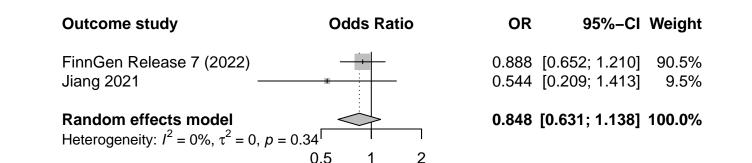
Eggerthella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



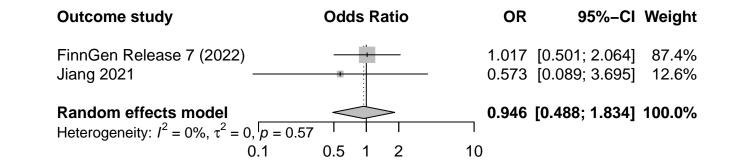
0.5

2

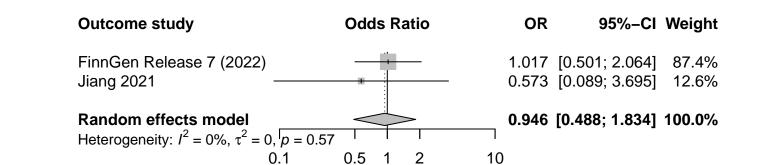
Eisenbergiella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



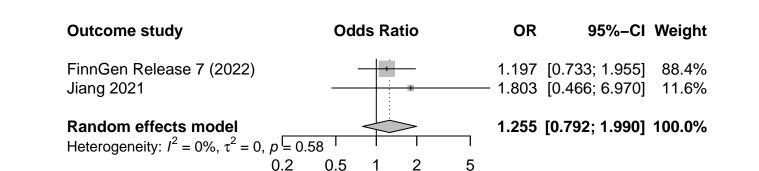
Enterobacteriaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



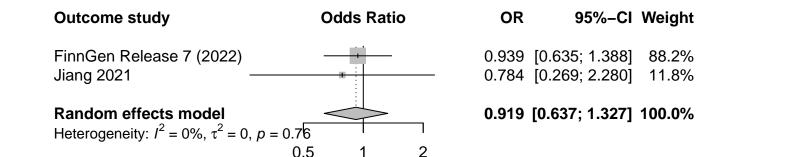
Enterobacteriales (Order) on Optic nerve swelling in Kangcheng Liu 2022



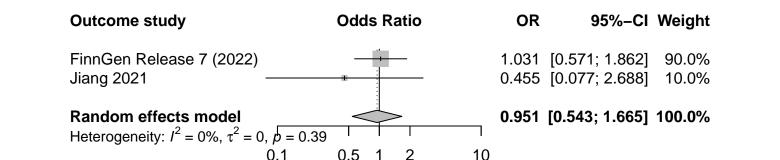
Enterorhabdus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



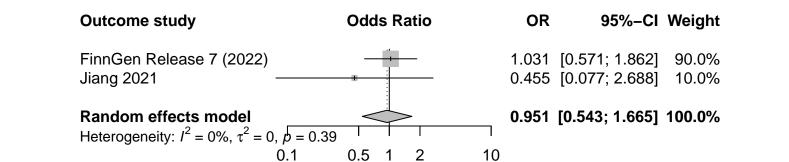
Erysipelatoclostridium (Genus) on Optic nerve swelling in Kangcheng Liu 2022



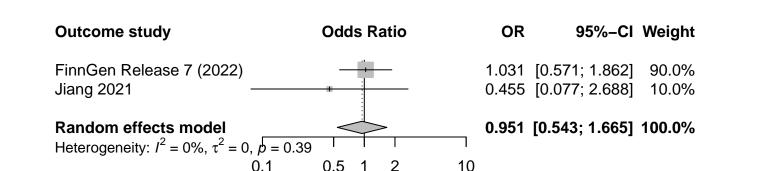
Erysipelotrichaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



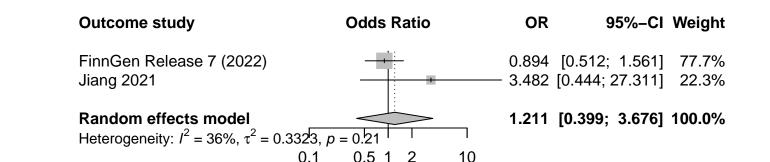
Erysipelotrichales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Erysipelotrichia (Class) on Optic nerve swelling in Kangcheng Liu 2022

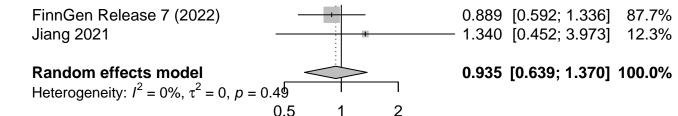


Escherichia Shigella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



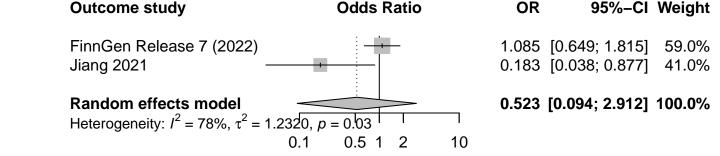
 Outcome study
 Odds Ratio
 OR
 95%-CI
 Weight

 FinnGen Release 7 (2022)
 ———
 0.889 [0.592; 1.336] 87.7%



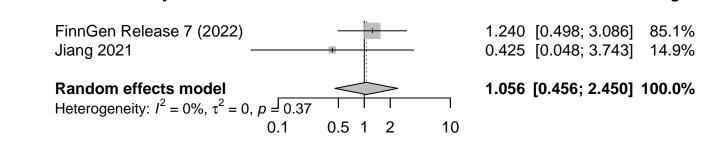
cterium brachy Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng Liu

n coprostanoligenes Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangche



Outcome study Odds Ratio OR 95%-CI Weight

terium eligens Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng Liu



FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.91$

0.5

1.023 [0.750; 1.396] 90.6%

1.087 [0.414; 2.849] 9.4%

1.029 [0.765; 1.383] 100.0%

rium fissicatena Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng I

cterium hallii Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng Liu

Outcome study	Odds Ratio	OR	95%-CI Weight	
FinnGen Release 7 (2022) Jiang 2021	-	-	555; 1.296] 53.8% 252; 30.952] 46.2%	
Random effects model Heterogeneity: $I^2 = 91\%$, $\tau^2 = 2.3680$, ρ 0.1	< 0.01 0.5 1 2 10	2.438 [0.2	261; 22.779] 100.0%	

erium nodatum Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng Li

Finn Gen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.96$

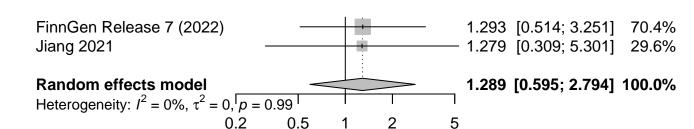
0.961 [0.747; 1.236] 89.9%

0.978 [0.461; 2.074] 10.1%

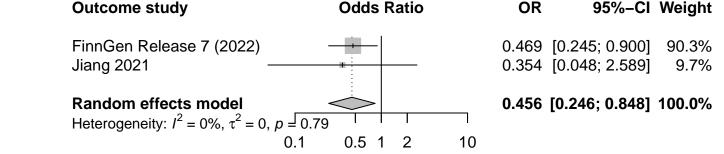
0.963 [0.758; 1.222] 100.0%

Outcome study Odds Ratio OR 95%-CI Weight

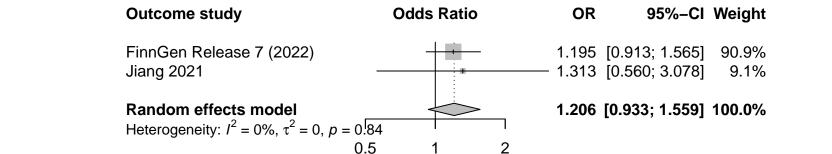
um oxidoreducens Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng



terium rectale Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng Liu

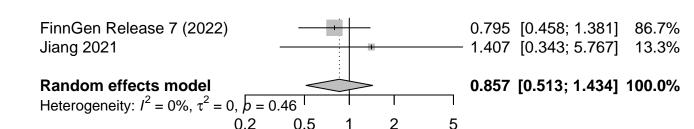


ium ruminantium Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng



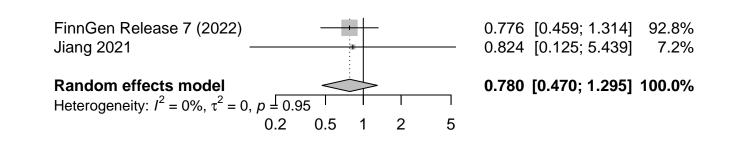
Outcome study Odds Ratio OR 95%-CI Weight

rium ventriosum Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng I

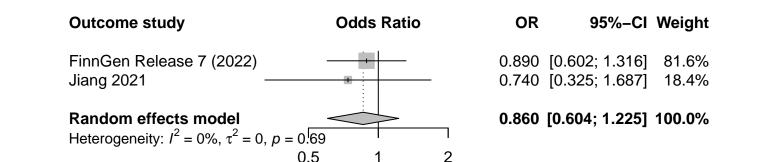


Outcome study Odds Ratio OR 95%–CI Weight

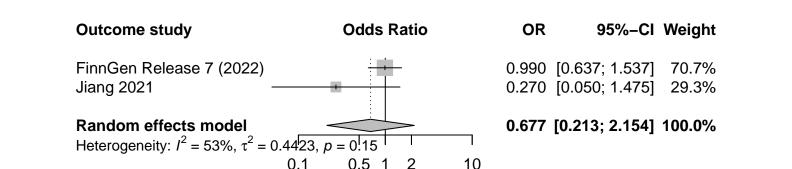
ium xylanophilum Group (Species in Eubacterium Genus) on Optic nerve swelling in Kangcheng



Euryarchaeota (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



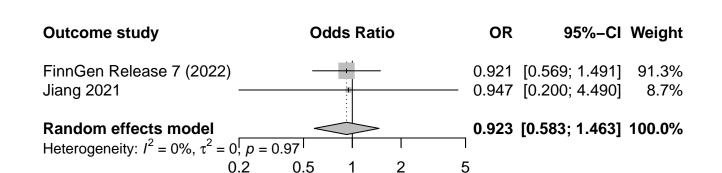
Faecalibacterium (Genus) on Optic nerve swelling in Kangcheng Liu 2022



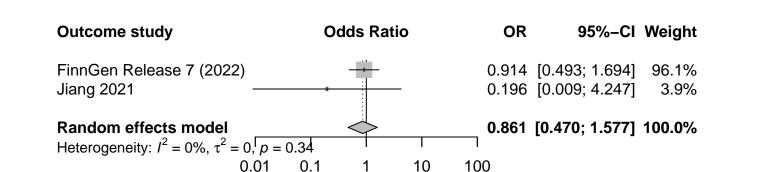
CS020 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

FinnGen Release 7 (2022) 0.666 [0.425; 1.044] 87.6% Jiang 2021 1.368 [0.371; 5.042] 12.4% Random effects model 0.728 [0.457; 1.159] 100.0% Heterogeneity:
$$I^2 = 5\%$$
, $\tau^2 = 0.0118$, $p = 0.31$ 0.2 0.5 1 2 5

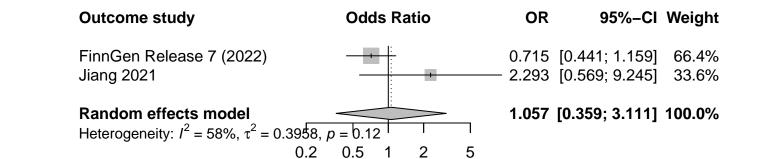
Firmicutes (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



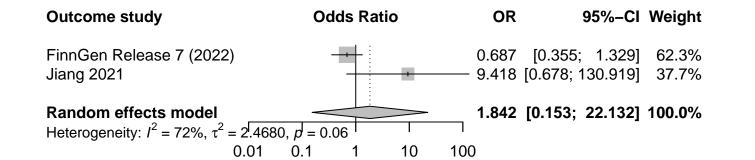
Flavonifractor (Genus) on Optic nerve swelling in Kangcheng Liu 2022



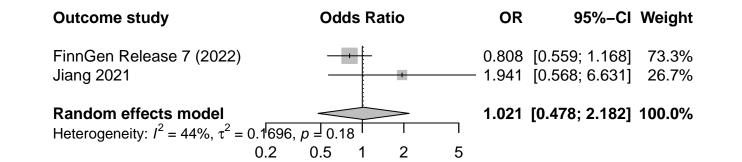
Fusicatenibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



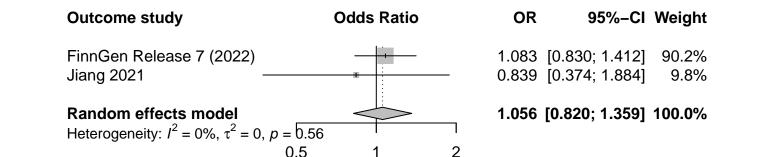
Gammaproteobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022



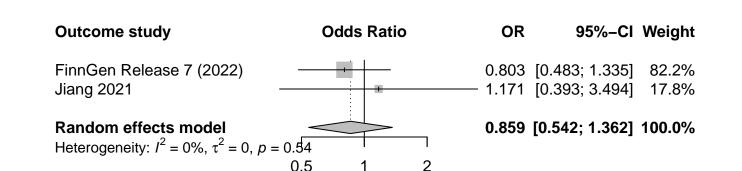
Gastranaerophilales (Order) on Optic nerve swelling in Kangcheng Liu 2022



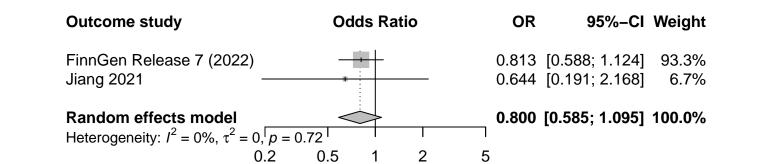
Gordonibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Haemophilus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Holdemanella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



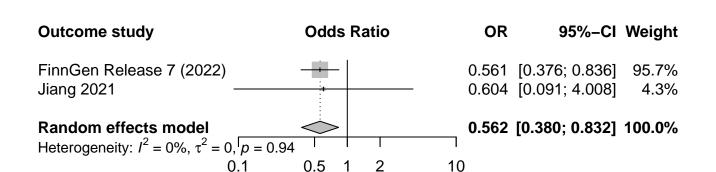
Holdemania (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR	95%-CI Weight
FinnGen Release 7 (2022) Jiang 2021	-	-	.776; 1.582] 79.8% .212; 1.633] 20.2%
Random effects model Heterogeneity: $I^2 = 24\%$, $\tau^2 = 0.04$	76, $p = 0.25$ 0.5 1 2	0.975 [0	.593; 1.603] 100.0%

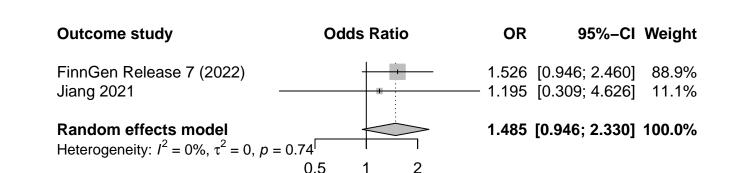
Howardella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Od	ds Ratio		OR	95%-CI	Weight
FinnGen Release 7 (2022) Jiang 2021		+	_	-	.602; 1.077] .329; 1.656]	88.6% 11.4%
Random effects model Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $p = 0$	0.84 0.5	1		0.797 [0.	.607; 1.048]	100.0%

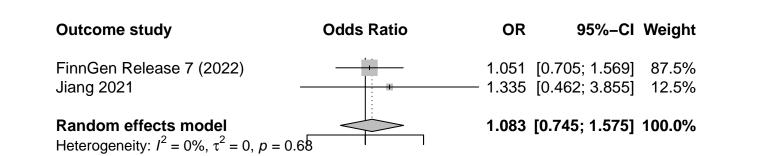
Hungatella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Intestinibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022

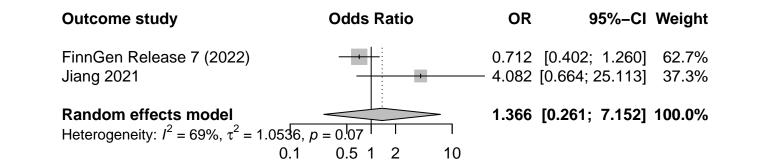


Intestinimonas (Genus) on Optic nerve swelling in Kangcheng Liu 2022

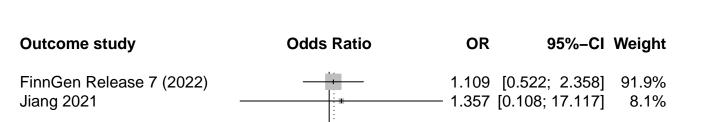


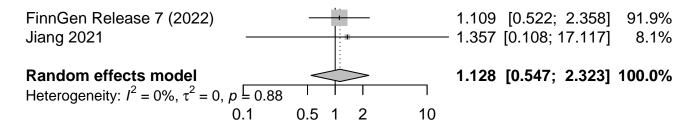
0.5

Lachnoclostridium (Genus) on Optic nerve swelling in Kangcheng Liu 2022

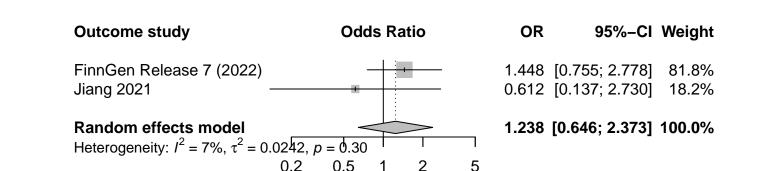


Lachnospira (Genus) on Optic nerve swelling in Kangcheng Liu 2022

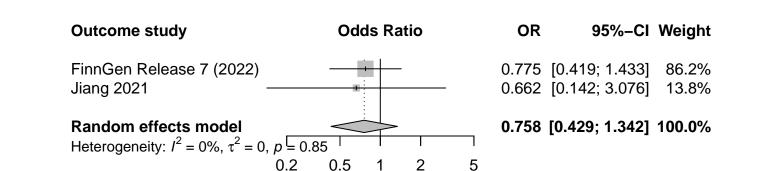




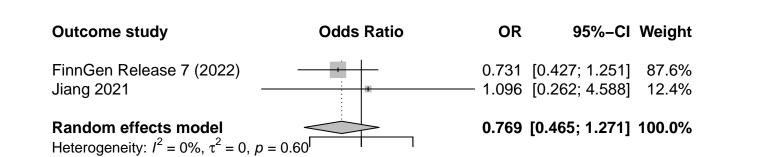
Lachnospiraceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



Lactobacillaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022

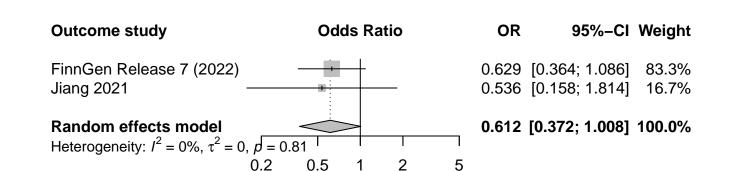


Lactobacillales (Order) on Optic nerve swelling in Kangcheng Liu 2022

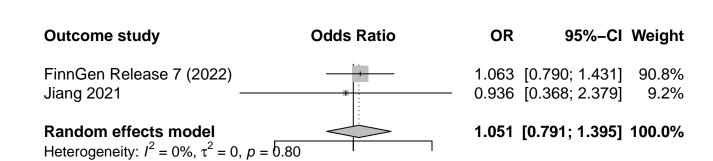


0.5

Lactobacillus (Genus) on Optic nerve swelling in Kangcheng Liu 2022

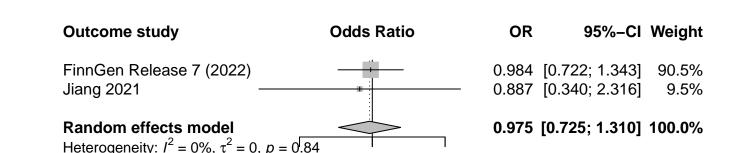


Lactococcus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



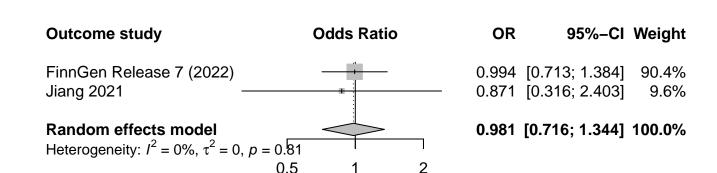
0.5

Lentisphaerae (Phylum) on Optic nerve swelling in Kangcheng Liu 2022

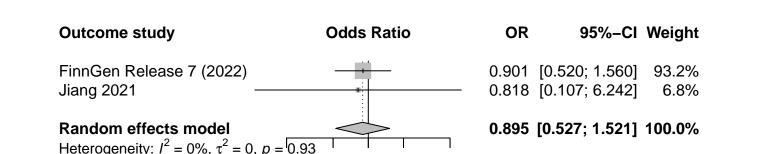


0.5

Lentisphaeria (Class) on Optic nerve swelling in Kangcheng Liu 2022



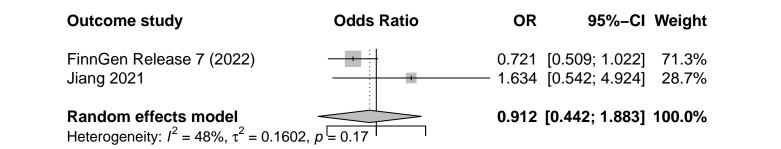
Marvinbryantia (Genus) on Optic nerve swelling in Kangcheng Liu 2022



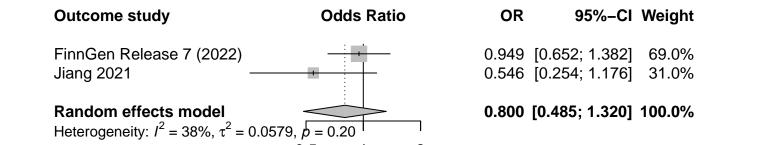
0.5 1

0.2

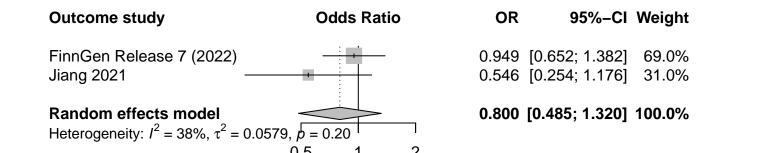
Melainabacteria (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



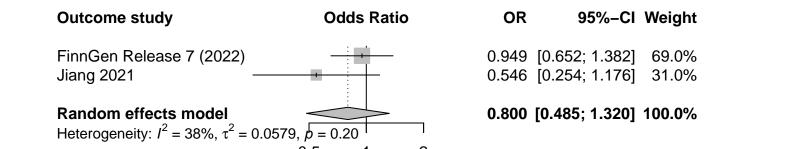
Methanobacteria (Class) on Optic nerve swelling in Kangcheng Liu 2022



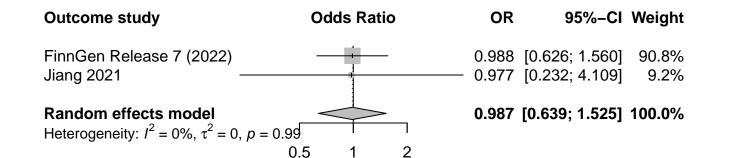
Methanobacteriaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



Methanobacteriales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Methanobrevibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



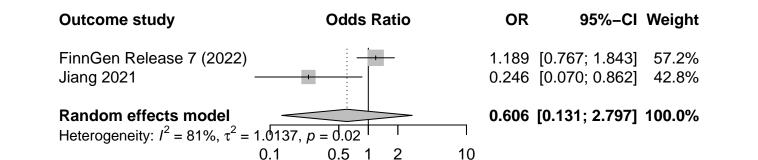
Mollicutes (Class) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR 95%-Cl Weight	
FinnGen Release 7 (2022) Jiang 2021 ——	-	1.180 [0.750; 1.856] 85.5% 0.390 [0.059; 2.566] 14.5%	

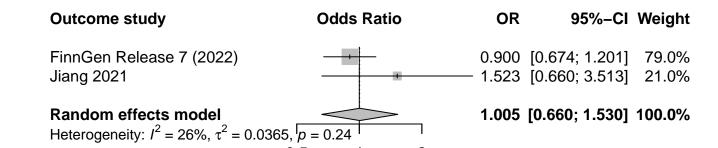
1.005 [0.468; 2.158] 100.0%

Random effects model Heterogeneity: $I^2 = 20\%$, $\tau^2 = 0.1245$, p = 0.26

MollicutesRF9 (Order) on Optic nerve swelling in Kangcheng Liu 2022

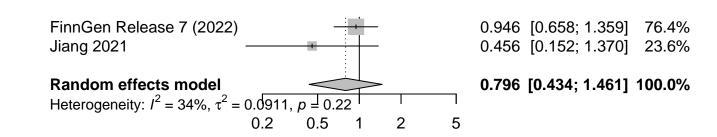


NB1n (Order) on Optic nerve swelling in Kangcheng Liu 2022

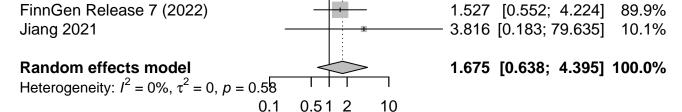


Outcome study Odds Ratio OR 95%–CI Weight

C2004 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

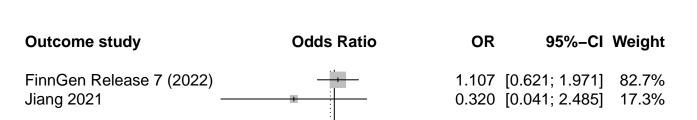


Outcome study Odds Ratio OR 95%-CI Weight

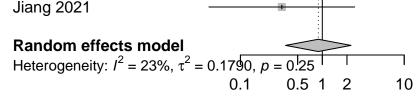


D3007 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

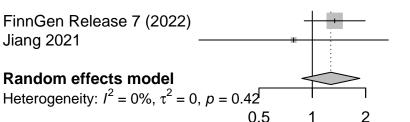
Negativicutes (Class) on Optic nerve swelling in Kangcheng Liu 2022



0.893 [0.356; 2.239] 100.0%



(4A136 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 20

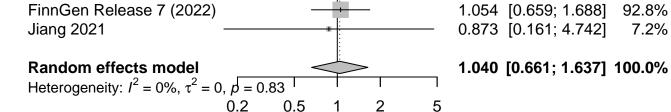


Outcome study Odds Ratio OR 95%-CI Weight

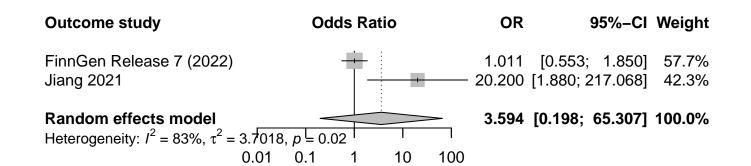
4A214 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

92.8%

7.2%



Odoribacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022

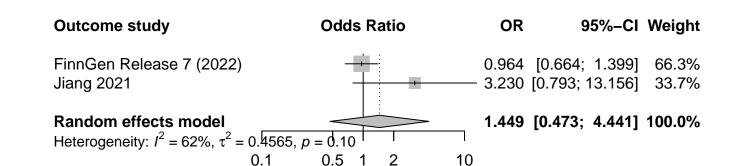


Olsenella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

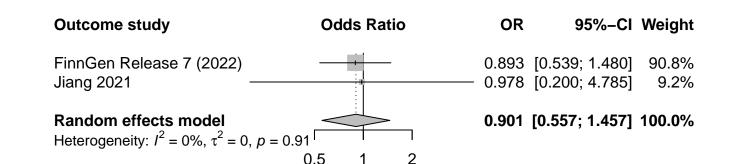
Outcome study	Odds Ratio	OR	95%-Cl Weigh	t
FinnGen Release 7 (2022) Jiang 2021 —	-	-	632; 1.347] 83.6% 443; 2.439] 16.4%	
Random effects model Heterogeneity: $I^2 = 0\%$ $\tau^2 = 0$ $\rho = 0$	0.80	0.941 [0.	666; 1.329] 100.0%	6

0.5 1 2

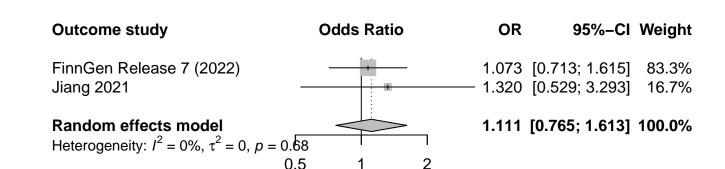
Oscillibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



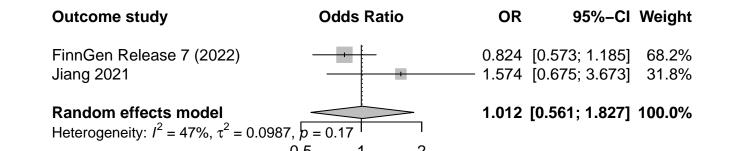
Oscillospira (Genus) on Optic nerve swelling in Kangcheng Liu 2022



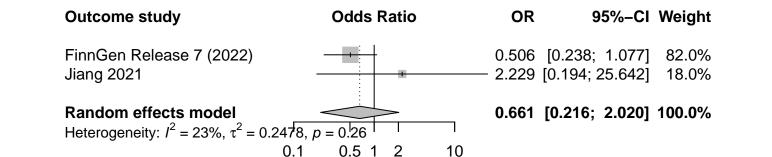
Oxalobacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



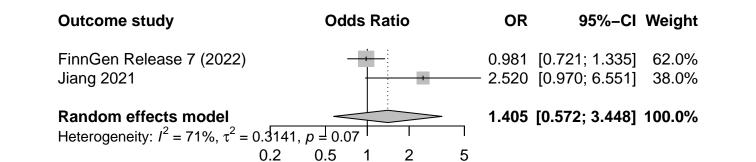
Oxalobacteraceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



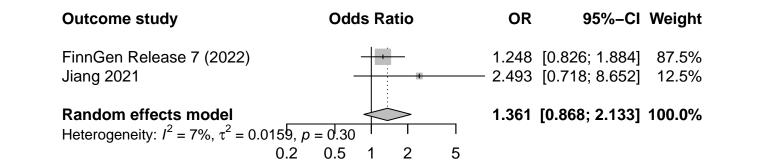
Parabacteroides (Genus) on Optic nerve swelling in Kangcheng Liu 2022



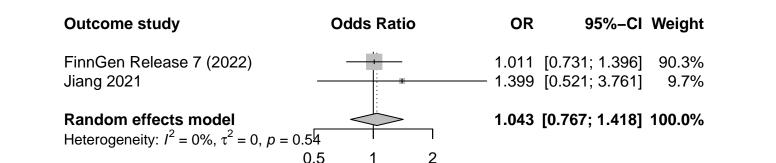
Paraprevotella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



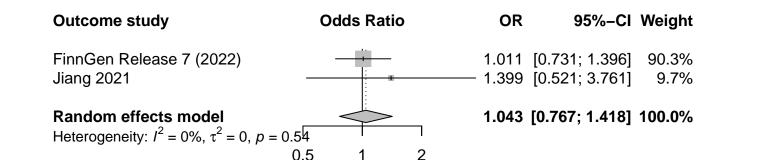
Parasutterella (Genus) on Optic nerve swelling in Kangcheng Liu 2022



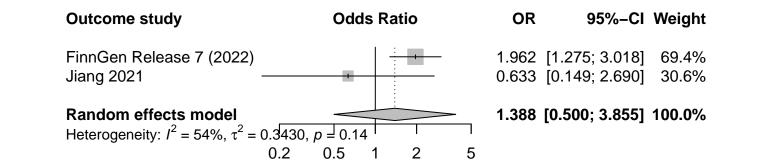
Pasteurellaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



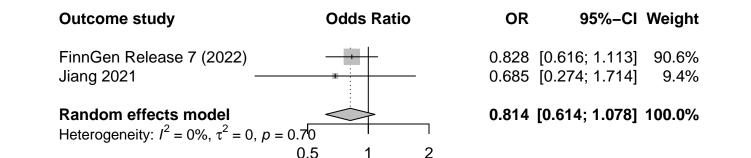
Pasteurellales (Order) on Optic nerve swelling in Kangcheng Liu 2022



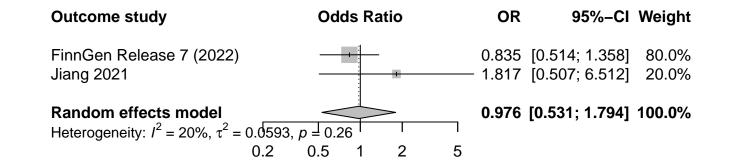
Peptococcaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



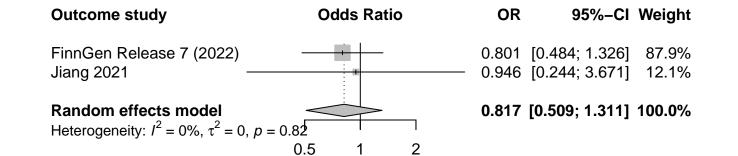
Peptococcus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



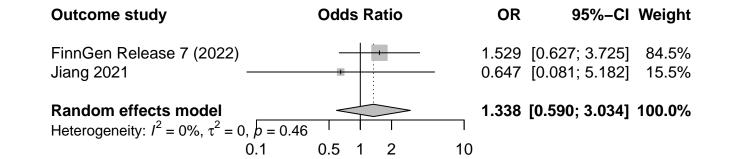
Peptostreptococcaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



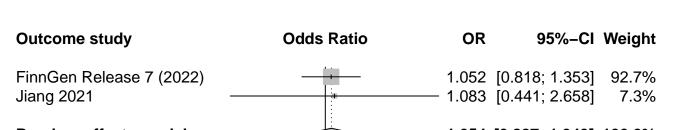
Phascolarctobacterium (Genus) on Optic nerve swelling in Kangcheng Liu 2022

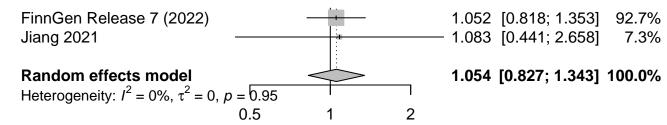


Porphyromonadaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022

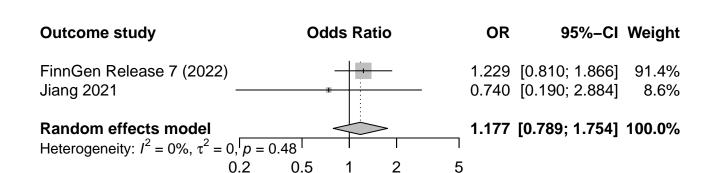


Prevotella7 (Genus) on Optic nerve swelling in Kangcheng Liu 2022

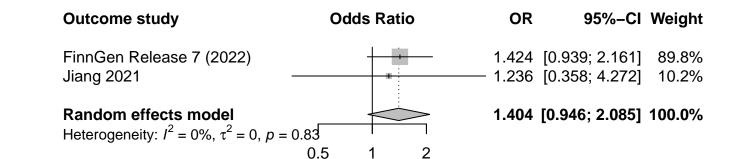




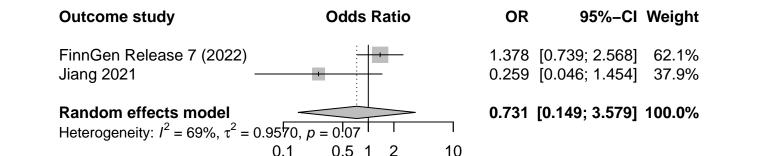
Prevotella9 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Prevotellaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



Proteobacteria (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



Outcome study Odds Ratio OR 95%-CI Weight

FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.49$

0.960 [0.485; 1.900] 92.4%

2.293 [0.211; 24.858] 7.6%

1.026 [0.532; 1.977] 100.0%

R7 Group (Genus in Christensenellaceae Family) on Optic nerve swelling in Kangcheng Liu 2022

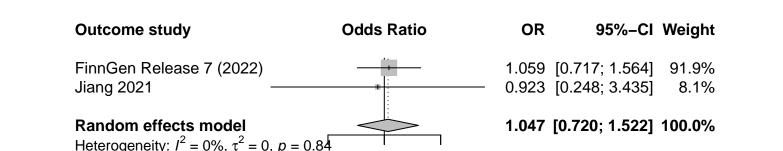
 Outcome study
 Odds Ratio
 OR
 95%-CI
 Weight

 FinnGen Release 7 (2022)
 1.129 [0.878; 1.452]
 80.7%

RC9 Gut Group (Genus in Rikenellaceae Family) on Optic nerve swelling in Kangcheng Liu 2022

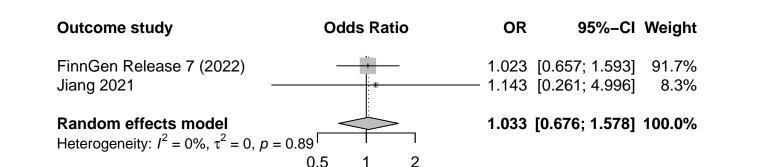
FinnGen Release 7 (2022) 1.129 [0.878; 1.452] 80.7% Jiang 2021 1.918 [0.819; 4.494] 19.3% Random effects model 1.251 [0.830; 1.885] 100.0% Heterogeneity:
$$I^2 = 27\%$$
, $\tau^2 = 0.0379$, $\rho = 0.24$

Rhodospirillaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022

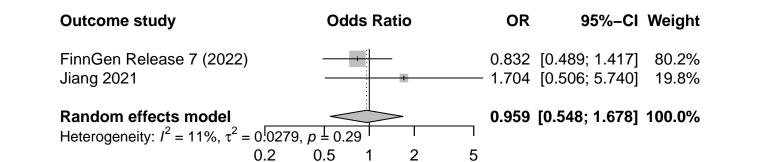


0.5

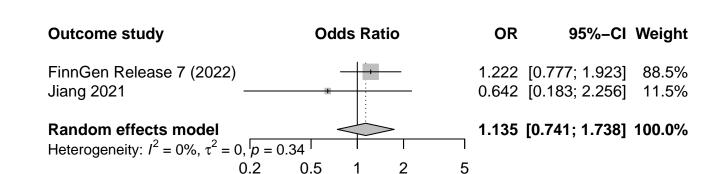
Rhodospirillales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Rikenellaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



Romboutsia (Genus) on Optic nerve swelling in Kangcheng Liu 2022



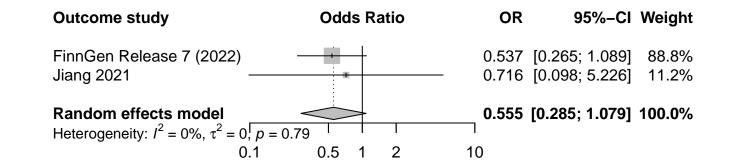
Roseburia (Genus) on Optic nerve swelling in Kangcheng Liu 2022

			_
Outcome study	Odds Ratio	OR	95%–CI Weight
FinnGen Release 7 (2022) Jiang 2021	-	-	535; 1.615] 68.9% 55; 15.023] 31.1%

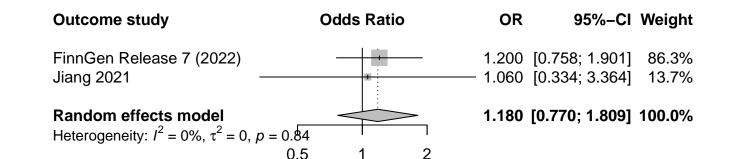
1.357 [0.450; 4.095] 100.0%

Random effects model
Heterogeneity:
$$I^2 = 52\%$$
, $\tau^2 = 0.3815$, $p = 0.15$

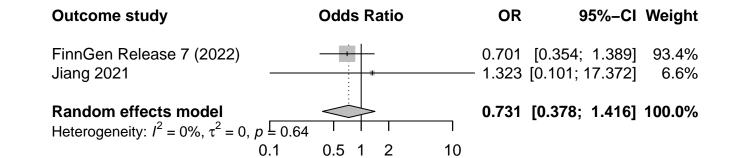
Ruminiclostridium5 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



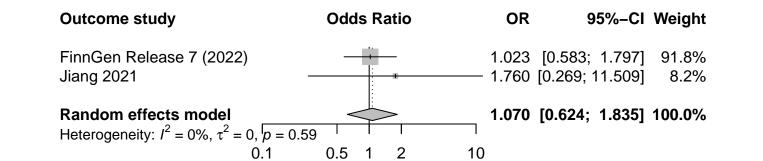
Ruminiclostridium6 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Ruminiclostridium9 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Ruminococcaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



0.5

0.809 [0.491; 1.332] 100.0%

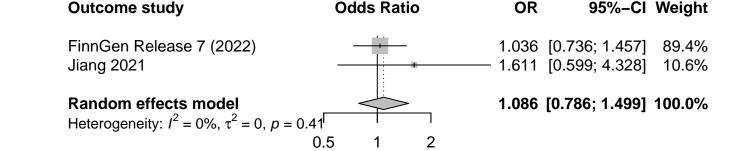
10

Random effects model

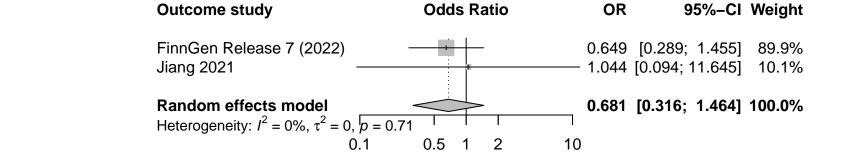
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p = 0.45

ccus gauvreauii Group (Species in Ruminococcus Genus) on Optic nerve swelling in Kangcheng

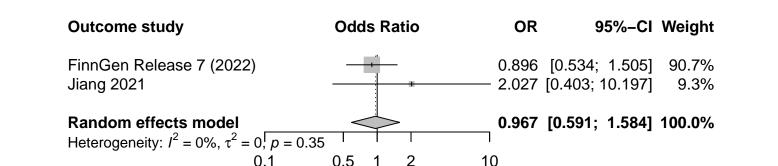
coccus gnavus Group (Species in Ruminococcus Genus) on Optic nerve swelling in Kangcheng



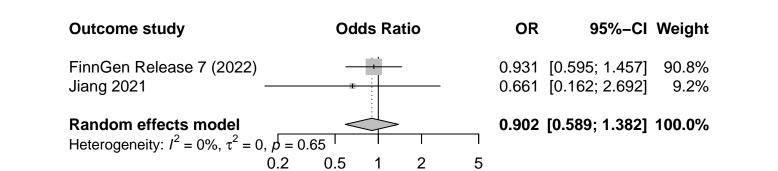
coccus torques Group (Species in Ruminococcus Genus) on Optic nerve swelling in Kangcheng



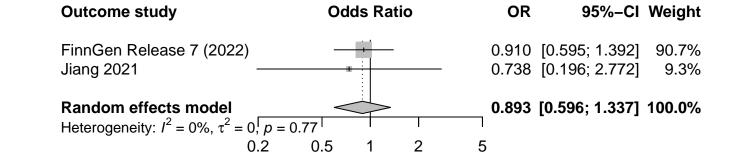
Ruminococcus1 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



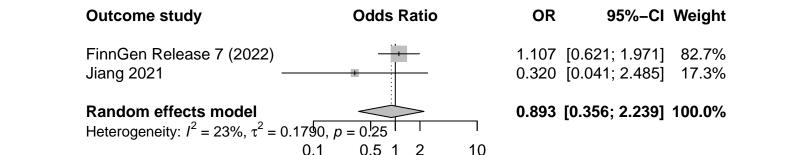
Ruminococcus2 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



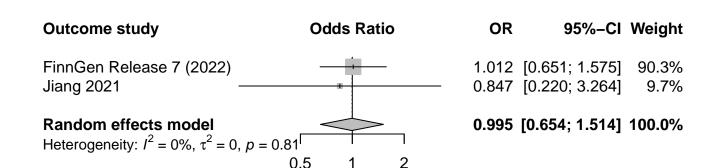
S24_7 Group (Family in Bacteroidales Order) on Optic nerve swelling in Kangcheng Liu 2022



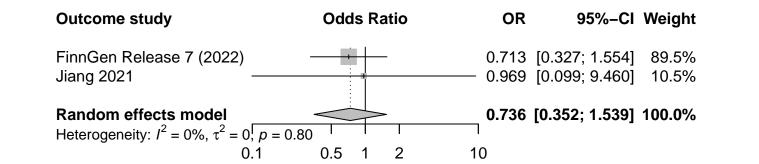
Selenomonadales (Order) on Optic nerve swelling in Kangcheng Liu 2022



Sellimonas (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Senegalimassilia (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Slackia (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR	95%-CI Weight	:
FinnGen Release 7 (2022) Jiang 2021	+	-	655; 1.627] 59.0% 264; 23.199] 41.0%	
Random effects model		2 035 TO 4	12: 10 0541 100 0%	

FinnGen Release 7 (2022)

Jiang 2021

Random effects model
Heterogeneity:
$$I^2 = 78\%$$
, $\tau^2 = 1.0710$, $p = 0.03$

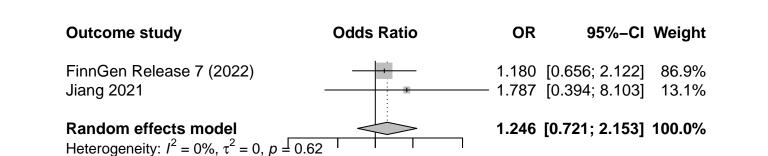
1.032 [0.655; 1.627] 59.0%

5.415 [1.264; 23.199] 41.0%

2.035 [0.412; 10.054] 100.0%

0.1 0.5 1 2 10

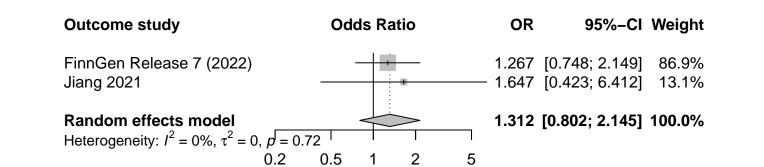
Streptococcaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



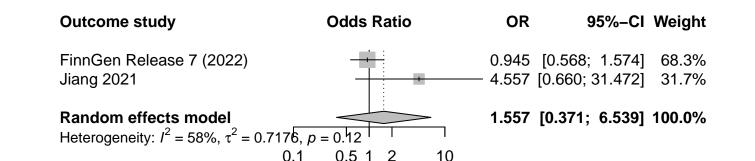
5

0.2 0.5

Streptococcus (Genus) on Optic nerve swelling in Kangcheng Liu 2022



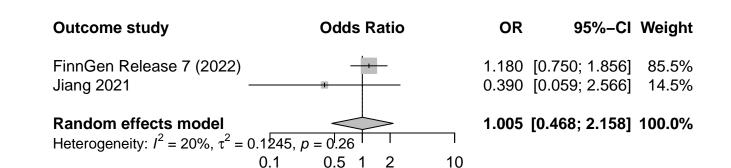
Subdoligranulum (Genus) on Optic nerve swelling in Kangcheng Liu 2022



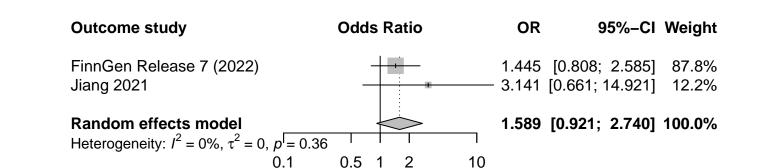
Sutterella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds	Ratio		OR	95%-CI	Weight
FinnGen Release 7 (2022) Jiang 2021	-	+	_		[0.612; 1.566] [1.035; 17.872]	
Random effects model Heterogeneity: $I^2 = 73\%$, $\tau^2 = 0.8019$, 0.1	p = 0.05 $0.5 1$	2		1.750	[0.425; 7.212]	100.0%

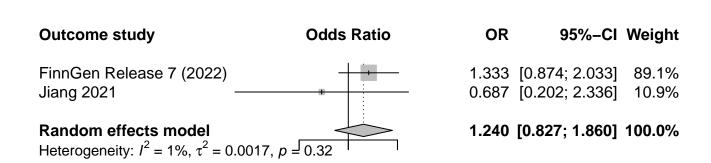
Tenericutes (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



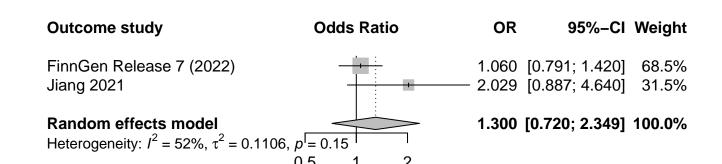
Terrisporobacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Turicibacter (Genus) on Optic nerve swelling in Kangcheng Liu 2022

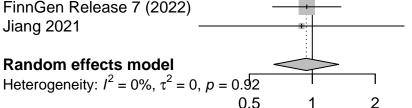


Tyzzerella3 (Genus) on Optic nerve swelling in Kangcheng Liu 2022



Outcome study Odds Ratio OR 95%-CI Weight

CG001 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202



0.941 [0.646; 1.371] 90.0% 0.888 [0.287; 2.749] 10.0% **0.936 [0.655; 1.337] 100.0**%
 Outcome study
 Odds Ratio
 OR
 95%-CI Weight

 FinnGen Release 7 (2022)
 1.386 [0.917; 2.094] 55.4%

 Jiang 2021
 0.244 [0.074; 0.801] 44.6%

10

0.638 [0.118; 3.466] 100.0%

Random effects model

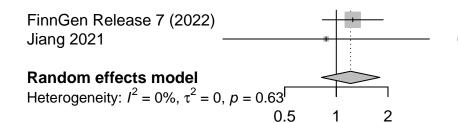
Heterogeneity: $I^2 = 86\%$, $\tau^2 = 1.3016$, p < 0.01

0.1

CG002 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

Outcome study Odds Ratio OR 95%-CI Weight

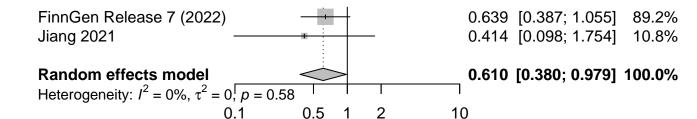
G003 Group (Genus in Erysipelotrichaceae Family) on Optic nerve swelling in Kangcheng Liu 20



1.247 [0.829; 1.876] 92.0% 0.872 [0.218; 3.486] 8.0% 1.212 [0.819; 1.793] 100.0%
 Outcome study
 Odds Ratio
 OR
 95%-CI Weight

 FinnGen Release 7 (2022)
 0.639 [0.387; 1.055] 89.2%

CG003 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20



Outcome study Odds Ratio OR 95%-Cl Weight

CG004 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

FinnGen Release 7 (2022)

Jiang 2021

1.007 [0.590; 1.717] 89.2%

1.030 [0.222; 4.779] 10.8%

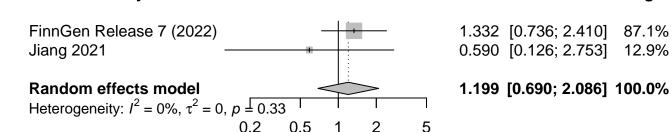
Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.98$

0.5 1 2

Outcome study Odds Ratio OR 95%-CI Weight

CG004 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20



1.332 [0.736; 2.410] 87.1% 0.590 [0.126; 2.753] 12.9%

 Outcome study
 Odds Ratio
 OR
 95%-CI Weight

 FinnGen Release 7 (2022)
 1.180 [0.748; 1.862]
 92.7%

 Higher 2024
 1.200 [0.250; 0.272]
 7.200

FinnGen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.61$

0.2
0.5
1.180 [0.748; 1.862] 92.7%

1.826 [0.360; 9.272] 7.3%

1.219 [0.786; 1.890] 100.0%

CG005 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

Outcome study Odds Ratio OR 95%-CI Weight FinnGen Release 7 (2022) —— 0.950 [0.665; 1.356] 92.8%

0.5

CG008 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

Finn Gen Release 7 (2022)

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.69$

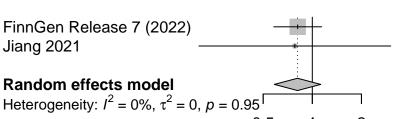
0.950 [0.665; 1.356] 92.8%

1.244 [0.347; 4.460] 7.2%

0.968 [0.687; 1.365] 100.0%

Outcome study Odds Ratio OR 95%–CI Weight

CG009 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20



Outcome study Odds Ratio OR 95%-CI Weight FinnGen Release 7 (2022) 1.705 [1.027; 2.830] 90.8% Jiang 2021 1.501 [0.305; 7.395] 9.2%

1.685 [1.039; 2.731] 100.0%

Random effects model

Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p = 0.88

0.2

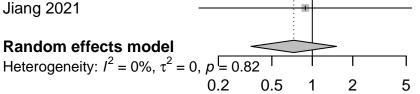
0.5

CG010 Group (Genus in Lachnospiraceae Family) on Optic nerve swelling in Kangcheng Liu 202

CG010 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

0.887 [0.143; 5.492] 16.2%

0.728 [0.350; 1.515] 100.0%



1.046 [0.693; 1.580] 100.0%

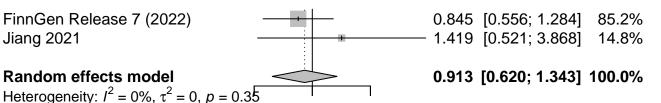
Random effects model

Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $\rho = 0.52$

CG011 Group (Genus in Defluviitaleaceae Family) on Optic nerve swelling in Kangcheng Liu 202

Outcome study Odds Ratio OR 95%-CI Weight

0.5



CG011 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

0.993 [0.230; 4.287] 11.3%

1.080 [0.660; 1.767] 100.0%

CG013 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

Jiang 2021

Random effects model

Heterogeneity:
$$I^2 = 0\%$$
, $\tau^2 = 0$, $p = 0.90$

CG014 Group (Genus in Ruminococcaceae Family) on Optic nerve swelling in Kangcheng Liu 20

Frandom effects model
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p = 0.360.1

0.5

1

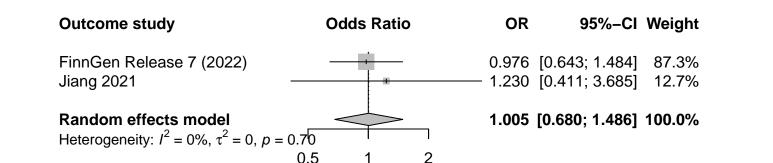
0.711 [0.465; 1.090] 100.0%

Veillonella (Genus) on Optic nerve swelling in Kangcheng Liu 2022

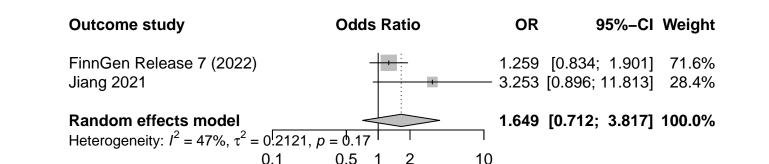
Outcome study	Odds Ratio	OR 95%-CI Weight
FinnGen Release 7 (2022) Jiang 2021	*	0.760 [0.403; 1.435] 92.5% — 1.946 [0.208; 18.174] 7.5%

FinnGen Release 7 (2022) 0.760 [0.403; 1.435] 92.5% Jiang 2021 1.946 [0.208; 18.174] 7.5% Random effects model Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, $\rho = 0.43$ 0.1 0.5 1 2 10

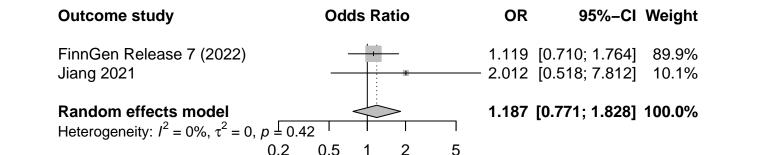
Veillonellaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



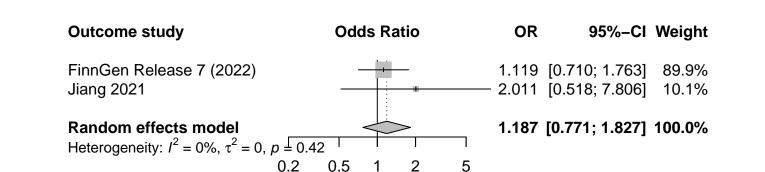
Verrucomicrobia (Phylum) on Optic nerve swelling in Kangcheng Liu 2022



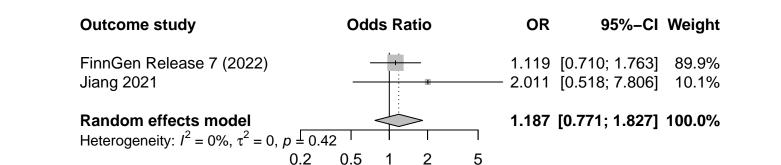
Verrucomicrobiaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



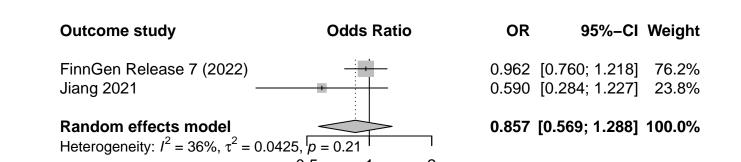
Verrucomicrobiae (Class) on Optic nerve swelling in Kangcheng Liu 2022



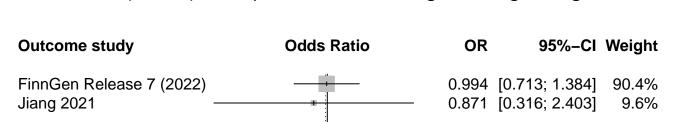
Verrucomicrobiales (Order) on Optic nerve swelling in Kangcheng Liu 2022



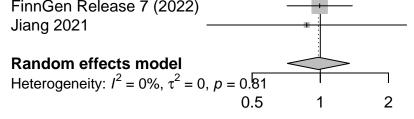
Victivallaceae (Family) on Optic nerve swelling in Kangcheng Liu 2022



Victivallales (Order) on Optic nerve swelling in Kangcheng Liu 2022



0.981 [0.716; 1.344] 100.0%



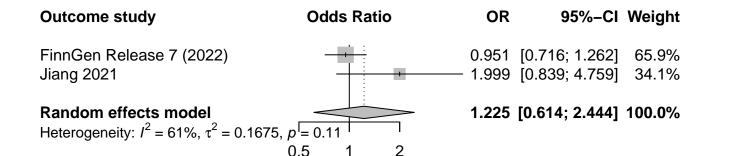
Victivallis (Genus) on Optic nerve swelling in Kangcheng Liu 2022

Outcome study	Odds Ratio	OR	95%-Cl Weight
FinnGen Release 7 (2022) Jiang 2021	*	-	0.674; 1.287] 86.7% 0.355; 1.845] 13.3%

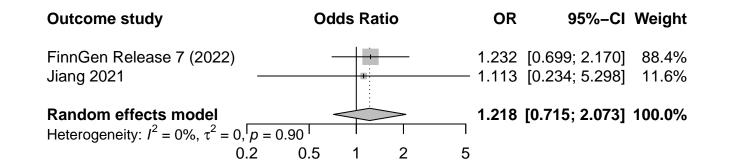
0.914 [0.677; 1.235] 100.0%

FinnGen Release 7 (2022) Jiang 2021 —	-	•	
Random effects model			
Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, μ	o = 0.76		ı
	0.5	1	2

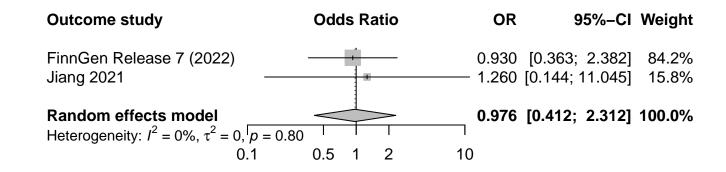
XI (Family) on Optic nerve swelling in Kangcheng Liu 2022



XII UCG001 Group (Genus in Family) on Optic nerve swelling in Kangcheng Liu 2022



XIII (Family) on Optic nerve swelling in Kangcheng Liu 2022



XIII AD3011 Group (Genus in Family) on Optic nerve swelling in Kangcheng Liu 2022

