

Supplementary Table 1 List of PubMed indexed research articles on MASLD biomarker (up to December 2023)

First author	Year of publication	Sample	Omic approach	Does it study microbiome? (default: gut)	Is it a multiomic study?	DOI	PMID	Full list of authors
Govaere	2023	Liver biopsy, plasma, serum	Proteomics, transcriptomics	No	Yes	10.1038/s42255-023-00775-1	37037945	Olivier Govaere, Megan Hasoon, Leigh Alexander, Simon Cockell, Dina Tiniakos, Mattias Ekstedt, Jörn M Schattenberg, Jerome Boursier, Elisabetta Bugianesi, Vlad Ratziu; LITMUS Investigators; Ann K Daly, Quentin M Anstee
Namjou	2019	Plasma	Genomics	No	No	10.1186/s12916-019-1364-z	31311600	Bahram Namjou, Todd Lingren, Yongbo Huang, Sreeja Parameswaran, Beth L Cobb, Ian B Stanaway, John J Connolly, Frank D Mentch, Barbara Benoit, Xinnan Niu, Wei-Qi Wei, Robert J Carroll, Jennifer A Pacheco, Isaac T W Harley, Senad Divanovic, David S Carrell, Eric B Larson, David J Carey, Shefali Verma, Marylyn D Ritchie, Ali G Gharavi, Shawn Murphy, Marc S Williams, David R Crosslin, Gail P Jarvik, Iftikhar J Kullo, Hakon

Speliotes	2011	Plasma	Genomics (GWAS, SNPs)	No	No	10.1371 /journal .pgen.10 01324	214237 19	Hakonarson, Rongling Li; eMERGE Network; Stavra A Xanthakos, John B Harley Elizabeth K Speliotes, Laura M Yerges-Armstrong, Jun Wu, Ruben Hernaez, Lauren J Kim, Cameron D Palmer, Vilmundur Gudnason, Gudny Eiriksdottir, Melissa E Garcia, Lenore J Launer, Michael A Nalls, Jeanne M Clark, Braxton D Mitchell, Alan R Shuldiner, Johannah L Butler, Marta Tomas, Udo Hoffmann, Shih-Jen Hwang, Joseph M Massaro, Christopher J O'Donnell, Dushyant V Sahani, Veikko Salomaa, Eric E Schadt, Stephen M Schwartz, David S Siscovick; NASH CRN; GIANT Consortium; MAGIC Investigators; Benjamin F Voight, J Jeffrey Carr, Mary F Feitosa, Tamara B Harris, Caroline S Fox, Albert V Smith, W H Linda Kao, Joel N Hirschhorn, Ingrid B Borecki; GOLD Consortium
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Kitamoto	2013	Plasma	Genomics (GWAS, SNPs)	No	No	10.1007/ s00439-013-1294-3	235359 11	Takuya Kitamoto, Aya Kitamoto, Masato Yoneda, Hideyuki Hyogo, Hidenori Ochi, Takahiro Nakamura, Hajime Teranishi, Seiho Mizusawa, Takato Ueno, Kazuaki Chayama, Atsushi Nakajima, Kazuwa Nakao, Akihiro Sekine, Kikuko Hotta
Yueqiong Ni	2023	Plasma, stool	Metabolo mics, metageno mics	Yes	Yes	10.1016/ j.cmet.2023.08.002	376730 36	Yueqiong Ni, Lingling Qian, Sara Leal Siliceo, Xiaoxue Long, Emmanouil Nychas, Yan Liu, Marsena Jasiel Ismaiah, Howell Leung, Lei Zhang, Qiongmei Gao, Qian Wu, Ying Zhang, Xi Jia, Shuangbo Liu, Rui Yuan, Lina Zhou, Xiaolin Wang, Qi Li, Yueliang Zhao, Hani El-Nezami, Aimin Xu, Guowang Xu, Huating Li, Gianni Panagiotou, Weiping Jia
Gorden	2015	Liver biopsy, plasma, urine	Lipidomi cs, transcript omics	No	Yes	10.1194/ jlr.P056002	255980 80	Lee Gorden, David S Myers, Pavlina T Ivanova, Eoin Fahy, Mano R Maurya, Shakti Gupta, Jun Min, Nathanael J Spann, Jeffrey G McDonald, Samuel L Kelly, Jingjing Duan, M Cameron Sullards, Thomas J Leiker, Robert M Barkley, Oswald Quehenberger, Aaron M Armando,

			Metabolo mics, metageno mics	Yes	Yes	10.1002 /hep.28	270287	Stephen B Milne, Thomas P Mathews, Michelle D Armstrong, Chijun Li, Willie V Melvin, Ronald H Clements, M Kay Washington, Alisha M Mendonsa, Joseph L Witztum, Ziqiang Guan, Christopher K Glass, Robert C Murphy, Edward A Dennis, Alfred H Merrill Jr, David W Russell, Shankar Subramaniam, H Alex Brown Federica Del Chierico, Valerio Nobili, Pamela Vernocchi, Alessandra Russo, Cristiano De Stefanis, Daniela Gnani, Cesare Furlanello, Alessandro Zandonà, Paola Paci, Giorgio Capuani, Bruno Dallapiccola, Alfredo Micheli, Anna Alisi, Lorenza Putignani
Del Chierico	2016	Stool	Metabolo mics, metageno mics,	Yes		10.15252 /msb.20	346940	Mujdat Zeybel, Ozlem Altay, Muhammad Arif, Xiangyu Li, Hong Yang, Claudia Fredolini, Murat Akyildiz, Burcin Saglam, Mehmet Gokhan Gonenli, Dilek Ural, Woonghee Kim, Jochen M Schwenk, Cheng Zhang, Saeed Shoaie, Jens Nielsen, Mathias Uhlén, Jan Borén, Adil Mardinoglu
Zeybel	2021	Plasma, saliva, stool	mics, proteomi cs	Yes (gut, oral)	Yes	2110459	70	

									Kikuko Hotta, Takuya Kitamoto, Aya Kitamoto, Yuji Ogawa, Yasushi Honda, Takaomi Kessoku, Masato Yoneda, Kento Imajo, Wataru Tomeno, Satoru Saito, Atsushi Nakajima
Hotta	2018	Liver biopsy	Epigenomics	No	No	10.1111/hepr.12992	29059699		
						10.1186/s13148-015-0056-6	25859289		Müjdat Zeybel, Timothy Hardy, Stuart M Robinson, Christopher Fox, Quentin M Anstee, Thomas Ness, Steven Masson, John C Mathers, Jeremy French, Steve White, Jelena Mann
Zeybel	2015	Liver biopsy	Epigenomics	No	No	10.1097/FPC.0b013e328333a1dd	19940802		Silvia Sookoian, Gustavo O Castaño, Adriana L Burgueño, Tomas Fernández Gianotti, María Soledad Rosselli, Carlos Jose Pirola
Sookoian	2010	Liver biopsy	Epigenomics	No	No	10.1136/gutjnl-2016-311526	27002005		Timothy Hardy, Mujdat Zeybel, Christopher P Day, Christian Dipper, Steven Masson, Stuart McPherson, Elsbeth Henderson, Dina Tiniakos, Steve White, Jeremy French, Derek A Mann, Quentin M Anstee, Jelena Mann
Hardy	2016	Liver biopsy, plasma	Epigenomics	No	No				

						10.12659			
Jiayu Wu	2018	Plasma	Epigenomics	No	No	/MSM.909747	30270343	Jiayu Wu, Ruinan Zhang, Feng Shen, Ruixu Yang, Da Zhou, Haixia Cao, Guangyu Chen, Qin Pan, Jiagao Fan, Jiantao Ma, Jana Nano, Jingzhong Ding, Yinan Zheng, Rachel Hennein, Chunyu Liu, Elizabeth K Speliotes, Tianxiao Huan, Ci Song, Michael M Mendelson, Roby Joehanes, Michelle T Long, Liming Liang, Jennifer A Smith, Lindsay M Reynolds, Mohsen Ghanbari, Taulant Muka, Joyce B J van Meurs, Louise J M Alferink, Oscar H Franco, Abbas Dehghan, Scott Ratliff, Wei Zhao, Lawrence Bielak, Sharon L R Kardia, Patricia A Peyser, Hongyan Ning, Lisa B VanWagner, Donald M Lloyd-Jones, John Jeffrey Carr, Philip Greenland, Alice H Lichtenstein, Frank B Hu, Yongmei Liu, Lifang Hou, Sarwa Darwish Murad, Daniel Levy	
Jiantao Ma	2019	Plasma	Epigenomics	No	No	/DB18-1193	30936141	Guido Alessandro Baselli, Paola Dongiovanni, Raffaella Rametta, Marica Meroni, Serena Pelusi, Marco Maggioni,	
Baselli	2020	Liver biopsy	Transcriptomics	No	No	10.1136/gutjnl-	32001554		

						2019-319226			Sara Badiali, Piero Pingitore, Samantha Maurotti, Tiziana Montalcini, Alice Emma Taliento, Daniele Prati, Giorgio Rossi, Anna Ludovica Fracanzani, Rosellina Margherita Mancina, Stefano Romeo, Luca Valenti	
						10.1053			Andreas Teufel, Timo Itzel, Wiebke Erhart, Mario Brosch, Xiao Yu Wang, Yong Ook Kim, Witigo von Schönfels, Alexander Herrmann, Stefan Brückner, Felix Stickel, Jean-François Dufour, Triantafyllos Chavakis, Claus Hellerbrand, Rainer Spang, Thorsten Maass, Thomas	
Teufel	2016	Liver biopsy	Transcriptomics	No	No	o.2016.0	273181	5.051	47	Becker, Stefan Schreiber, Clemens Schafmayer, Detlef Schuppan, Jochen Hampe
						10.1002				Cynthia A Moylan, Herbert Pang, Andrew Dellinger, Ayako Suzuki, Melanie E Garrett, Cynthia D Guy, Susan K Murphy, Allison E Ashley-Koch, Steve S Choi, Gregory A Michelotti, Daniel D Hampton, Yuping Chen, Hans L
Moylan	2013	Liver biopsy	Transcriptomics	No	No	/hep.26	239134	661	08	Tillmann, Michael A Hauser, Manal F Abdelmalek, Anna Mae Diehl

Sreekumar	2003	Liver biopsy	Transcriptomics	No	No	10.1053/jhep.2003.50290	12830008	Raghavakaimal Sreekumar, Barbara Rosado, Deborah Rasmussen, Michael Charlton
Younossi	2005	Liver biopsy	Transcriptomics	No	No	10.1111/j.1478-3231.2005.01117.x	15998427	Zobair M Younossi, Francesco Gorreta, Janus P Ong, Karen Schlauch, Luca Del Giacco, Hazem Elariny, Amy Van Meter, Abraham Younoszai, Zachary Goodman, Anna Baranova, Alan Christensen, Geraldine Grant, Vikas Chandhoke
Suppli	2019	Liver biopsy	Transcriptomics	No	No	10.1152/ajpgi.00358.2018	30653341	Malte P Suppli, Kristoffer T G Rigbolt, Sanne S Veidal, Sara Heebøll, Peter Lykke Eriksen, Mia Demant, Jonatan I Bagger, Jens Christian Nielsen, Denise Oró, Sebastian W Thrane, Asger Lund, Charlotte Strandberg, Merete J Kønig, Tina Vilsbøll, Niels Vrang, Karen L Thomsen, Henning Grønbaek, Jacob Jelsing, Henrik H Hansen, Filip K Kno

Starman	2012	Liver biopsy	Transcriptomics	No	No	10.1371/journal.pone.0046584	23071592	Julia Starmann, Maria Fälth, Walter Spindelböck, Katja-Loren Lanz, Carolin Lackner, Kurt Zatloukal, Michael Trauner, Holger Sültmann
Yoneda	2008	Liver biopsy	Transcriptomics	No	No	10.1111/j.1872-034X.2008.00399.x	18637145	Masato Yoneda, Hiroki Endo, Hironori Mawatari, Yuichi Nozaki, Koji Fujita, Tomoyuki Akiyama, Takuma Higurashi, Takashi Uchiyama, Kyoko Yoneda, Hirokazu Takahashi, Hiroyuki Kirikoshi, Masahiko Inamori, Yasunobu Abe, Kensuke Kubota, Satoru Saito, Noritoshi Kobayashi, Naotaka Yamaguchi, Shiro Maeyama, Shogo Yamamoto, Shuichi Tsutsumi, Hiroyuki Aburatani, Koichiro Wada, Kikuko Hotta, Atsushi Nakajima
Gerhard	2018	Liver biopsy	Transcriptomics	No	No	10.1210/js.2018-00122	29978150	Glenn S Gerhard, Christophe Legendre, Christopher D Still, Xin Chu, Anthony Petrick, Johanna K DiStefano

Di Mauro	2019	Serum	Transcriptomics	No	No	10.1111 /liv.141 67	311699 72	Stefania Di Mauro, Alessandra Scamporrino, Salvatore Petta, Francesca Urbano, Agnese Filippello, Marco Ragusa, Maria T Di Martino, Francesca Scionti, Stefania Grimaudo, Rosaria M Pipitone, Graziella Privitera, Antonino Di Pino, Roberto Scicali, Luca Valenti, Paola Dongiovanni, Anna Fracanzani, Agata M Rabuazzo, Antonio Craxì, Michele Purrello, Francesco Purrello, Salvatore Piro
Lefebvre	2017	Liver biopsy	Transcriptomics	No	No	10.1172 /jci.insight.9226 4	286799 47	Philippe Lefebvre, Fanny Lalloyer, Eric Baugé, Michal Pawlak, Céline Gheeraert, Hélène Dehondt, Jonathan Vanhoutte, Eloise Woitrain, Nathalie Hennuyer, Claire Mazuy, Marie Bobowski-Gérard, Francesco Paolo Zummo, Bruno Derudas, Ann Driessen, Guy Hubens, Luisa Vonghia, Wilhelmus J Kwanten, Peter Michielsen, Thomas Vanwollegem, Jérôme Eeckhoute, An Verrijken, Luc Van Gaal, Sven Francque, Bart Staels

						10.1007			
						/s00535			
Guo	2016	Liver biopsy	Transcrip tomics	No	No	-016- 1178-0	268748 44	Yan Guo, Yanhua Xiong, Quanguo Sheng, Shilin Zhao, Julia Wattacheril, Charles Robb Flynn	
						10.1136		Carlos J Pirola, Tomas Fernández Gianotti, Gustavo O	
						/gutjnl-		Castaño, Pablo Mallardi, Julio San Martino, María Mora	
Pirola	2015	Serum	Transcrip tomics	No	No	2014- 306996	249733 16	Gonzalez Lopez Ledesma, Diego Flichman, Faridodin Mirshahi, Arun J Sanyal, Silvia Sookoian	
						10.1002		Onpan Cheung, Puneet Puri, Christoph Eicken, Melissa J	
Cheung	2008	Liver biopsy	Transcrip tomics	No	No	/hep.22 569	190301 70	Contos, Faridoddin Mirshahi, James W Maher, John M Kellum, Haeki Min, Velimir A Luketic, Arun J Sanyal	
						10.1002		Chuanzheng Sun, Xunyang Liu, Zhongjie Yi, Xuefei Xiao,	
Sun	2015	Liver biopsy	Transcrip tomics	No	No	/iub.144 2	264725 41	Mingshi Yang, Gui Hu, Huaizheng Liu, Liangkan Liao, Feizhou Huang	
						10.1002		Biljana Atanasovska, Sander S Rensen, Marijke R van der	
Atanaso vska	2017	Liver biopsy	Transcrip tomics	No	No	/hep.29 034	280731 83	Sijde, Glenn Marsman, Vinod Kumar, Iris Jonkers, Sebo Withoff, Ronit Shiri-Sverdlov, Jan Willem M Greve, Klaas	

									Nico Faber, Han Moshage, Cisca Wijmenga, Bart van de Sluis, Marten H Hofker, Jingyuan Fu
						10.1371			
						/journal			
Tan	2014	Serum	Transcriptomics	No	No	.pone.0105192	25141008		Youwen Tan, Guohong Ge, Tengli Pan, Danfeng Wen, Jianhe Gan
									Olfat M Hendy, Hatem Rabie, Amr El Fouly, Mohamed Abdel-Samiee, Nashwa Abdelmotelb, Amr Aly Elshormilisy, Mahmoud Allam, Samia Taher Ali,
						10.2147			
						/DMSO	319085		Nessren Mohamed Bahaa El-Deen, Shimaa Abdelsattar,
Hendy	2019	Serum	Transcriptomics	No	No	.S231321	12		Somia Mokabel Mohamed
									Xuelian Xiong, Henry Kuang, Sahar Ansari, Tongyu Liu, Jianke Gong, Shuai Wang, Xu-Yun Zhao, Yewei Ji, Chuan
						10.1016			Li, Liang Guo, Linkang Zhou, Zhimin Chen, Paola Leon-
			Proteomics,			/j.molce			Mimila, Meng Ting Chung, Katsuo Kurabayashi, Judy
		Liver	transcript			1.2019.07	313983		Opp, Francisco Campos-Pérez, Hugo Villamil-Ramírez,
Xiong	2019	biopsy	omics	No	Yes	.028	25		Samuel Canizales-Quinteros, Robert Lyons, Carey N

									Lumeng, Beiyan Zhou, Ling Qi, Adriana Huertas-Vazquez, Aldons J Lusic, X Z Shawn Xu, Siming Li, Yonghao Yu, Jun Z Li, Jiandie D Lin
						10.1186			Zobair M Younossi, Azza Karrar, Mariaelena Pierobon, Aybike Birerdinc, Maria Stepanova, Dinan Abdelatif, Zahra Younoszai, Thomas Jeffers, Sean Felix, Kianoush
		Liver				/s12916			Jeiran, Alex Hodge, Weidong Zhou, Fanny Monge,
Younossi		biopsy,	Proteomi			-018-	302058		Lakshmi Alaparathi, Vikas Chandhoke, Zachary D
i	2018	serum	cs	No	No	1136-1	11		Goodman, Emanuel F Petricoin
						10.1016			
						/j.jprot.			Xianwen Yuan, Yuanyuan Sun, Qi Cheng, Kai Hu, Juan
		Liver	Proteomi			2020.103	320580		Ye, Yinjuan Zhao, Jing Wu, Xiaoyan Shao, Lei Fang, Yitao
Yuan	2020	biopsy	cs	No	No	683	41		Ding, Xitai Sun, Xiaolei Shi, Bin Xue
						10.1002			
			Proteomi			/hep.23	198858		Lauren N Bell, Janice L Theodorakis, Raj Vuppalanchi,
Bell	2009	Serum	cs	No	No	271	78		Romil Saxena, Kerry G Bemis, Mu Wang, Naga Chalasani

Wood	2017	Serum	cs	No	Yes	238	14	10.1038 /srep43	282666	Craig Wood, Xin Chu, George Argyropoulos, Peter Benotti, David Rolston, Tooraj Mirshahi, Anthony Petrick, John Gabrielson, David J Carey, Johanna K DiStefano, Christopher D Still, Glenn S Gerhard
								10.15252		Lili Niu, Philipp E Geyer, Nicolai J Wewer Albrechtsen, Lise L Gluud, Alberto Santos, Sophia Doll, Peter V Treit, Jens J Holst, Filip K Knop, Tina Vilsbøll, Anders Junker, Stephan Sachs, Kerstin Stemmer, Timo D Müller,
Niu	2019	Plasma	cs	No	No	188793	64	10.1016 /j.meta	308245	Matthias H Tschöp, Susanna M Hofmann, Matthias Mann
Perakakis	2019	Serum	mics	No	No	bol.2019 .154005	317118	10.1016 /j.meta		Nikolaos Perakakis, Stergios A Polyzos, Alireza Yazdani, Aleix Sala-Vila, Jannis Kountouras, Athanasios D Anastasilakis, Christos S Mantzoros
Vildhede	2020	Liver biopsy	cs	No	No	10.1002 /cpt.169	316304			Anna Vildhede, Emi Kimoto, Ryan M Pelis, A David Rodrigues, Manthena V S Varma

Donnelly	2005	Blood, liver biopsy	Lipidomics	No	No	10.1172/JCI23621	15864352	Kerry L Donnelly, Coleman I Smith, Sarah J Schwarzenberg, Jose Jessurun, Mark D Boldt, Elizabeth J Parks
Puri	2007	Plasma	Lipidomics	No	No	10.1002/hep.21763	17654743	Puneet Puri, Rebecca A Baillie, Michelle M Wiest, Faridoddin Mirshahi, Jayanta Choudhury, Onpan Cheung, Carol Sargeant, Melissa J Contos, Arun J Sanyal
Chiappini	2017	Liver biopsy	Lipidomics, transcriptomics	No	Yes	10.1038/srep46658	28436449	Franck Chiappini, Audrey Coilly, Hanane Kadar, Philippe Gual, Albert Tran, Christophe Desterke, Didier Samuel, Jean-Charles Duclos-Vallée, David Touboul, Justine Bertrand-Michel, Alain Brunelle, Catherine Guettier, François Le Naour
Bril	2018	Liver biopsy	Metabolomics	No	No	10.1111/dom.13285	29527789	Fernando Bril, Laura Millán, Srilaxmi Kalavalapalli, Michael J McPhaul, Michael P Caulfield, Ibon Martinez-Arranz, Cristina Alonso, Pablo Ortiz Betes, José M Mato, Kenneth Cusi
Caussy	2019	Serum	Metabolomics	No	No	10.1136/gutjnl-2019-035677	30567742	Cyrielle Caussy, Veeral H Ajmera, Puneet Puri, Cynthia Li-Shin Hsu, Shirin Bassirian, Mania Mgdasyan, Seema

						2018-317584		Singh, Claire Faulkner, Mark A Valasek, Emily Rizo, Lisa Richards, David A Brenner, Claude B Sirlin, Arun J Sanyal, Rohit Loomba
						10.1136/gutjnl-2012-303179	23492103	Cristina López-Vicario, Ana González-Pérez, Bibiana Rius, Eva Morán-Salvador, Verónica García-Alonso, Juan José Lozano, Ramón Bataller, Montserrat Cofán, Jing X Kang, Vicente Arroyo, Joan Clària, Esther Titos
López-Vicario	2014	Liver biopsy	Transcriptomics	No	No			Nahum Calvo, Raúl Beltrán-Debón, Esther Rodríguez-Gallego, Anna Hernández-Aguilera, Maria Guirro, Roger Mariné-Casadó, Lidón Millá, Josep M Alegret, Fàtima Sabench, Daniel del Castillo, María Vinaixa, Miguel Àngel Rodríguez, Xavier Correig, Roberto García-Álvarez, Javier A Menendez, Jordi Camps, Jorge Joven
						10.3748/wjg.v21.i24.7529	26140000	Àngel Rodríguez, Xavier Correig, Roberto García-Álvarez, Javier A Menendez, Jordi Camps, Jorge Joven
Calvo	2015	Plasma	Metabolomics	No	No			Shu Dong, Zong-Ying Zhan, Hong-Yan Cao, Chao Wu, Yan-Qin Bian, Jian-Yuan Li, Gen-Hong Cheng, Ping Liu, Ming-Yu Sun
						10.3748/wjg.v23.i15.2771	28487615	
Dong	2017	Urine	Metabolomics	No	No			

									Kazutoshi Yamada, Eishiro Mizukoshi, Takuya Seike, Rika Horii, Takeshi Terashima, Noriho Iida, Masaaki Kitahara, Hajime Sunagozaka, Kuniaki Arai, Tatsuya Yamashita, Masao Honda, Toshinari Takamura, Kenichi Harada, Shuichi Kaneko
Yamada	2019	Liver biopsy, serum	Metabolomics	No	No	10.1111/jgh.14654	30864239		
						10.1371/journal.pone.0189965	29244873		Wonbeak Yoo, Donjeta Gjuka, Heather L Stevenson, Xiaoling Song, Hong Shen, Suk Young Yoo, Jing Wang, Michael Fallon, George N Ioannou, Stephen A Harrison, Laura Beretta
Yoo	2017	Serum	Lipidomics	No	No	10.1007/s00535-013-0766-5	23478936		Katsutoshi Tokushige, Etsuko Hashimoto, Kazuhisa Kodama, Maki Tobari, Noriko Matsushita, Tomomi Kogiso, Makiko Taniai, Nobuyuki Torii, Keiko Shiratori, Yasuhiro Nishizaki, Takushi Ohga, Yoshiaki Ohashi, Takaya Sato
Tokushige	2013	Serum	Metabolomics	No	No	10.1111/hepr.13528	32455496		Yuji Ogawa, Takashi Kobayashi, Yasushi Honda, Takaomi Kessoku, Wataru Tomeno, Kento Imajo, Takashi Nakahara, Satoshi Oeda, Yuko Nagaoki,
Ogawa	2020	Plasma	Metabolomics	No	No				

									Yuichiro Amano, Tatsuya Ando, Megumi Hirayama, Osamu Isono, Hidenori Kamiguchi, Hiroshi Nagabukuro, Shinji Ogawa, Yoshinori Satomi, Yusuke Saigusa, Hirokazu Takahashi, Hideyuki Hyogo, Masato Yoneda, Satoru Saito, Takeharu Yamanaka, Shinichi Aishima, Yuichiro Eguchi, Masayoshi Kage, Kazuaki Chayama, Atsushi Nakajima
			Metabolo			10.1126			Howell Leung, Xiaoxue Long, Yueqiong Ni, Lingling Qian, Emmanouil Nychas, Sara Leal Siliceo, Dennis Pohl, Kati Hanhineva, Yan Liu, Aimin Xu, Henrik B Nielsen, Eugeni Belda, Karine Clément, Rohit Loomba, Huating Li, Weiping Jia, Gianni Panagiotou
Leung	2022	Serum, stool	mics, metageno mics	Yes	(gut, serum)	Yes	slmed.a bk0855	356754 35	
			Metageno						Ekaterina Smirnova, Mark D Muthiah, Nicole Narayan, Mohamad S Siddiqui, Puneet Puri, Velimir A Luketic, Melissa J Contos, Michael Idowu, Jen-Chieh Chuang, Andrew N Billin, Ryan S Huss, Robert P Myers, Sherry
Smirnov			mics, metabolo				10.1002 /hep.32	355611	
a	2022	Stool	metatrans	Yes		Yes	568	46	

			criptomic s						Boyett, Mulugeta Seneshaw, Hae-Ki Min, Faridodin Mirshahi, Arun J Sanyal
Tae Gyu Oh	2020	Stool	Metabolo mics, metageno mics	Yes	Yes	10.1016 /j.cmet. 2020.06. 005	326100 95		Tae Gyu Oh, Susy M Kim, Cyrielle Caussy, Ting Fu, Jian Guo, Shirin Bassirian, Seema Singh, Egbert V Madamba, Ricki Bettencourt, Lisa Richards, Ruth T Yu, Annette R Atkins, Tao Huan, David A Brenner, Claude B Sirlin, Michael Downes, Ronald M Evans, Rohit Loomba
Jiao	2018	Liver biopsy, serum, stool	metabolo mics, transcript omics	Yes	Yes	10.1136 /gutjnl- 2017- 314307	287748 87		Na Jiao, Susan S Baker, Adrian Chapa-Rodriguez, Wensheng Liu, Colleen A Nugent, Maria Tsompana, Lucy Mastrandrea, Michael J Buck, Robert D Baker, Robert J Genco, Ruixin Zhu, Lixin Zhu
Loomba	2017	Stool	Metageno mics	Yes	No	10.1016 /j.cmet. 2017.04. 001	284679 25		Rohit Loomba, Victor Seguritan, Weizhong Li, Tao Long, Niels Klitgord, Archana Bhatt, Parambir Singh Dulai, Cyrielle Caussy, Richele Bettencourt, Sarah K Highlander, Marcus B Jones, Claude B Sirlin, Bernd

Demir	2022	Stool	Metagenomics (mycobio me)	Yes	No	10.1016/j.jhep.2021.11.029	348964	Schnabl, Lauren Brinkac, Nicholas Schork, Chi-Hua Chen, David A Brenner, William Biggs, Shibu Yooseph, J Craig Venter, Karen E Nelson
								Münevver Demir, Sonja Lang, Phillipp Hartmann, Yi Duan, Anna Martin, Yukiko Miyamoto, Marina Bondareva, Xinlian Zhang, Yanhan Wang, Philipp Kasper, Corinna Bang, Christoph Roderburg, Frank Tacke, Hans-Michael Steffen, Tobias Goeser, Andrey Kruglov, Lars Eckmann, Peter Stärkel, Derrick E Fouts, Bernd Schnabl
Behary	2021	Serum, stool	Metabolomics, metagenomics	Yes	Yes	10.1038/s41467-020-20422-7	334200	Jason Behary, Nadia Amorim, Xiao-Tao Jiang, Anita Raposo, Lan Gong, Emily McGovern, Ragy Ibrahim, Francis Chu, Carlie Stephens, Hazem Jebeili, Vincenzo Fragomeli, Yen Chin Koay, Miriam Jackson, John O'Sullivan, Martin Weltman, Geoffrey McCaughan, Emad El-Omar, Amany Zekry

Kang	2022	Liver biopsy, stool	Metagenomics,	Yes	Yes	10.1080	356347	07	Hyena Kang, Hyun Ju You, Giljae Lee, Seung Hyun Lee, Taekyung Yoo, Murim Choi, Sae Kyung Joo, Jeong Hwan Park, Mee Soo Chang, Dong Hyeon Lee, Won Kim, GwangPyo Ko
			transcriptomics			76.2022.			2078612
Mardinoglu	2018	Liver biopsy, plasma, stool	Metagenomics, metabolomics, transcriptomics	Yes	Yes	10.1016/j.cmet.2018.01.005	294560	73	Marschall, Fredrik Bäckhed, Marja-Riitta Taskinen, Jan Borén
Pirola	2022	Liver biopsy	Metagenomics	Yes (liver)	No	10.1016/j.ebio	350929	12	Quintanilla, Gustavo Osvaldo Castaño, Martin Garaycoechea, Silvia Sookoian

			Metabolo						Cyrielle Caussy, Cynthia Hsu, Min-Tzu Lo, Amy Liu,
			mics,			10.1002			Ricki Bettencourt, Veeral H Ajmera, Shirin Bassirian,
		Serum,	metageno			/hep.29	295728		Jonathan Hooker, Ethan Sy, Lisa Richards, Nicholas
Caussy	2018	stool	mics	Yes	Yes	892	91		Schork, Bernd Schnabl, David A Brenner, Claude B Sirlin,
									Chi-Hua Chen, Rohit Loomba
									Jeffrey B Schwimmer, Jethro S Johnson, Jorge E Angeles,
									Cynthia Behling, Patricia H Belt, Ingrid Borecki, Craig
									Bross, Janis Durelle, Nidhi P Goyal, Gavin Hamilton,
						10.1053			Mary L Holtz, Joel E Lavine, Makedonka Mitreva,
						/j.gastr			Kimberly P Newton, Amy Pan, Pippa M Simpson,
Shwim			Metageno			o.2019.0	312556		Claude B Sirlin, Erica Sodergren, Rahul Tyagi, Katherine
mer	2019	Stool	mics	Yes	No	6.028	52		P Yates, George M Weinstock, Nita H Salzman
			Metageno						
			mics,			10.1053			Sonja Lang, Münevver Demir, Anna Martin, Lu Jiang,
			metatrans			/j.gastr			Xinlian Zhang, Yi Duan, Bei Gao, Hilmar Wisplinghoff,
			criptomic			o.2020.0	326521		Philipp Kasper, Christoph Roderburg, Frank Tacke,
Lang	2020	Stool	s	Yes (VLPs)	Yes	7.005	45		Hans-Michael Steffen, Tobias Goeser, Juan G Abraldes,

									Xin M Tu, Rohit Loomba, Peter Stärkel, David Pride, Derrick E Fouts, Bernd Schnabl
			Metagenomics,			10.1101			
		Liver biopsy, stool	mics, transcriptomics			/2023.0			Marissa Saenz, Jillian C McDonough, Elizabeth Bloom-
Saenz	2023			Yes	Yes	5.19.540	372930		Saldana, Jose M Irimia, Emily L Cauble, Ashly Castillo, Patrick T Fueger, Lindsey S Treviño
						10.1016			S M B Duarte, J T Stefano, L Miele, F R Ponziani, M Souza-
						/j.num			Basqueira, L S R R Okada, F G de Barros Costa, K Toda,
			Metagenomics			cd.2017.	294829		D F C Mazo, E C Sabino, F J Carrilho, A Gasbarrini, C P
Duarte	2017	Stool		Yes	No	10.014	63		Oliveira
									Ana M Gómez-Pérez, Patricia Ruiz-Limón, Jordi Salas-Salvadó, Jesús Vioque, Dolores Corella, Montse Fitó, Josep Vidal, Alessandro Atzeni, Laura Torres-Collado, Andrea Álvarez-Sala, María Ángeles Martínez, Albert
						10.1080			Goday, David Benaiges, Jesús García-Gavilán, María
						/194909			Rosa Bernal López, Isabel Moreno-Indias, Francisco J
Gómez-Pérez	2023	Stool	Metagenomics	Yes	No	76.2023.	373452		Tinahones
						2223339	36		

Fei	2023	Serum, stool	Metabolo mics, metageno mics	Yes	Yes	10.1101 /2023.0 1.09.523 249	367120 61	Na Fei, Sawako Miyoshi, Jake B Hermanson, Jun Miyoshi, Bingqing Xie, Orlando DeLeon, Maximilian Hawkins, William Charlton, Mark D'Souza, John Hart, Dinanath Sulakhe, Kristina G Martinez-Guryn, Eugene B Chang, Michael R Charlton, Vanessa A Leone
Yun	2019	Blood, stool	Metageno mics	Yes blood)	(gut, No	10.1371 /journal .pone.02 13692	308704 86	Yejun Yun, Han-Na Kim, Eun-Ju Lee, Seungho Ryu, Yoosoo Chang, Hocheol Shin, Hyung-Lae Kim, Tae Hun Kim, Kwon Yoo, Hwi Young Kim
Lang	2020	Stool	Metageno mics	Yes	No	10.1080 /194909 76.2020. 1785251	326840 75	Sonja Lang, Bradley Fairfied, Bei Gao, Yi Duan, Xinlian Zhang, Derrick E Fouts, Bernd Schnabl
Uygun	2017	Blood	Genomics	No	No	10.1097 /MEG.0 0000000	282532 10	Ahmet Uygun, Kadir Ozturk, Hakan Demirci, Ali Oztuna, Fatih Eren, Salih Kozan, Yusuf Yilmaz, Omer

						0000081			Kurt, Turker Turker, Sezgin Vatansever, Emrah Alper, Belkis Unsal
						3			Svenja Sydor, Jan Best, Insa Messerschmidt, Paul Manka, Ramiro Vilchez-Vargas, Susanne Brodesser, Christina Lucas, Annemarie Wegehaupt, Chiara Wenning, Sophia Aßmuth, Simon Hohenester, Alexander Link, Klaas Nico Faber, Han Moshage, Francisco Javier Cubero, Scott L Friedman, Guido Gerken, Michael Trauner, Ali Canbay, Lars P Bechmann
Sydor	2020	Serum, stool	Metabolo mics, metageno mics	Yes	Yes	10.14309 /ctg.000 0000000 000131	323527 07		Federica Del Chierico, Valerio Nobili, Pamela Vernocchi, Alessandra Russo, Cristiano De Stefanis, Daniela Gnani, Cesare Furlanello, Alessandro Zandonà, Paola Paci, Giorgio Capuani, Bruno Dallapiccola, Alfredo Micheli, Anna Alisi, Lorenza Putignani
Del Chierico	2017	Stool	Metabolo mics, metageno mics	Yes	Yes	10.1002 /hep.28 572	270287 97		Jennifer E Lambert, Maria A Ramos-Roman, Jeffrey D Browning, Elizabeth J Parks
Lambert	2013	Serum	Lipidomi cs	No	No	10.1053 /j.gastr	243162 60		

						o.2013.1			
						1.049			Eva Rodríguez-Suárez, Antonio M Duce, Juan Caballería,
Rodríguez-Suárez	2010	Liver biopsy	Proteomics	No	No	10.1002/prca.201900119	21137056		Félix Martínez Arrieta, Estefanía Fernández, Carolina Gómara, Nere Alkorta, Usue Ariz, M Luz Martínez-Chantar, Shelly C Lu, Felix Elortza, José M Mato
			Genomics						
			proteomics,			10.1038/s41598-020-58030-6	10.1186/s12967-018-29690-3		
Veyel	2020	Liver biopsy, plasma	transcriptomics	No	Yes	10.1186/s12967-018-29690-3	31992752		Daniel Veyel, Kathrin Wenger, Andre Broermann, Tom Bretschneider, Andreas H Luippold, Bartłomiej Krawczyk, Wolfgang Rist, Eric Simon
									Xin Chu, Qunyan Jin, Hui Chen, G Craig Wood, Anthony Petrick, William Strodel, Jon Gabrielsen, Peter Benotti,
Chu	2018	Liver biopsy, plasma	Transcriptomics	No	No	10.1186/s12967-018-29690-3	29690903		Tooraj Mirshahi, David J Carey, Christopher D Still, Johanna K DiStefano, Glenn S Gerhard

Gawrieh	2010	Liver biopsy	Transcriptomics	No	No	10.1007/s11695-010-0171-6	20473581	Samer Gawrieh, Tesfaye M Baye, Melanie Carless, James Wallace, Richard Komorowski, David E Kleiner, Deborah Andris, Bassem Makladi, Regina Cole, Michael Charlton, Joanne Curran, Thomas D Dyer, Jac Charlesworth, Russell Wilke, John Blangero, Ahmed H Kissebah, Michael Olivier
Aljabban	2022	Liver biopsy	Transcriptomics	No	No	10.4254/wjh.v14.i7.1382	36158924	Jihad Aljabban, Michael Rohr, Saad Syed, Kamal Khorfan, Vincent Borkowski, Hisham Aljabban, Michael Segal, Mohamed Mukhtar, Mohammed Mohammed, Maryam Panahiazar, Dexter Hadley, Ryan Spengler, Erin Spengler
Serhal	2015	Liver biopsy, serum	Transcriptomics	No	No	10.1155/2015/850246	26273651	Rim Serhal, George Hilal, George Boutros, Joseph Sidaoui, Layal Wardi, Salah Ezzeddine, Nada Alaaeddine
Park	2023	Liver biopsy	Transcriptomics	No	No	10.1016/j.jhep.2023.01.012	36049612	Jiwoon Park, Yuanyuan Zhao, Fan Zhang, Shaoyan Zhang, Andrew C Kwong, Yujie Zhang, Hans-Heinrich Hoffmann, Leila Bushweller, Xin Wu, Alison W

						022.08.0 22			Ashbrook, Branko Stefanovic, Shuyang Chen, Andrea D Branch, Christopher E Mason, Jae U Jung, Charles M Rice, Xianfang Wu
Desterke	2019	Liver biopsy	Transcriptomics	No	No	10.3390 /ijms20 225594	317174 14		Christophe Desterke, Franck Chiappini
Feng	2021	Liver biopsy	Transcriptomics, Metabolomics, proteomics,	No	No	2021.08. 002	347865 46		Jin Feng, Tianjiao Wei, Xiaona Cui, Rui Wei, Tianpei Hong
Sztolsztener	2020	Liver biopsy, plasma	Transcriptomics	No	Yes	10.3390 /biom1 0081133	327519 83		Klaudia Sztolsztener, Adrian Chabowski, Ewa Harasim-Symbor, Patrycja Bielawiec, Karolina Konstantynowicz-Nowicka

									Tian Lan, Yufeng Hu, Fengjiao Hu, Haonan Li, Yinghua
						10.1016			Chen, Jing Zhang, Yang Yu, Shuo Jiang, Qiqing Weng,
						/j.jhep.2			Song Tian, Tengfei Ma, Guizhi Yang, Duosheng Luo,
		Liver	Transcrip			021.09.0	346566		Lexun Wang, Kunping Li, Shenghua Piao, Xianglu Rong,
Lan	2022	biopsy	tomics	No	No	40	50		Jiao Guo
						10.1371			
						/journal			
		Liver	Transcrip			.pone.02	333159		Yuan Yuan, Hisao Naito, Kazuya Kitamori, Sayuki
Yuan	2020	biopsy	tomics	No	No	43846	11		Hashimoto, Tomomi Asano, Tamie Nakajima
						10.1093			Xiaoya Li, Jing Wang, Xue Gong, Meiling Zhang,
Xiaoya		Liver	Transcrip			/nar/gk	327106		Shuangshuang Kang, Bing Shu, Zuzhuang Wei, Zhi-Shu
Li	2020	biopsy	tomics	No	No	aa615	21		Huang, Ding Li
		Cell	Genomics						
		culture,	,			10.3390			Biljana Atanasovska, Sander S Rensen, Glenn Marsman,
Atanaso		liver	transcript			/cells10	344406		Ronit Shiri-Sverdlov, Sebo Withoff, Folkert Kuipers,
vska	2021	biopsy	omics	No	Yes	081883	52		Cisca Wijmenga, Bart van de Sluis, Jingyuan Fu

									Lorena Pantano, George Agyapong, Yang Shen, Zhu Zhuo, Francesc Fernandez-Albert, Werner Rust, Dagmar Knebel, Jon Hill, Carine M Boustany-Kari, Julia F Doerner, Jörg F Rippmann, Raymond T Chung, Shannan J Ho Sui, Eric Simon, Kathleen E Corey
Pantano	2021	Liver biopsy	Transcriptomics	No	No	10.1038/s41598-021-96966-5	345081	13	Aleksandra Deczkowska, Eyal David, Pierluigi Ramadori, Dominik Pfister, Michal Safran, Baoguo Li, Amir Giladi, Diego Adhemar Jaitin, Oren Barboy, Merav Cohen, Ido Yofe, Chamutal Gur, Shir Shlomi-Loubaton, Sandrine Henri, Yousuf Suhail, Mengjie Qiu, Shing Kam, Hila Hermon, Eylon Lahat, Gil Ben Yakov, Oranit Cohen-Ezra, Yana Davidov, Mariya Likhter, David Goitein, Susanne Roth, Achim Weber, Bernard Malissen, Assaf Weiner, Ziv Ben-Ari, Mathias Heikenwälder, Eran Elinav, Ido Amit
Deczowska	2021	Liver biopsy	Transcriptomics	No	No	10.1038/s41591-021-01344-3	340171	33	Sabine Daemen, Anastasiia Gainullina, Gowri Kalugotla, Li He, Mandy M Chan, Joseph W Beals, Kim H Liss,
Daemen	2021	Liver biopsy	Transcriptomics	No	No	10.1016/j.celrep	334401	59	

								.2020.10	Samuel Klein, Ariel E Feldstein, Brian N Finck, Maxim N
								8626	Artyomov, Joel D Schilling
								10.1038	Rikard G Fred, Julie Steen Pedersen, Jonatan J Thompson,
								/s41598	Julie Lee, Pascal N Timshel, Stefan Stender, Marte Opseth
Fred	2022	Liver biopsy	Transcrip tomics	No	No	-022-	359317	16754-7 12	Rygg, Lise Lotte Gluud, Viggo Bjerregaard Kristiansen, Flemming Bendtsen, Torben Hansen, Tune H Pers
									Camille Blériot, Emelie Barreby, Garrett Dunsmore, Raphaelle Ballaire, Svetoslav Chakarov, Xenia Ficht, Giorgia De Simone, Francesco Andreatta, Valeria Fumagalli, Wei Guo, Guochen Wan, Gregoire Gessain, Ahad Khalilnezhad, Xiao Meng Zhang, Nicholas Ang, Ping Chen, Cecilia Morgantini, Valerio Azzimato, Wan Ting Kong, Zhaoyuan Liu, Rhea Pai, Josephine Lum, Foo Shihui, Ivy Low, Connie Xu, Benoit Malleret,
								10.1016	Muhammad Faris Mohd Kairi, Akhila Balachander,
								/j.immu	Olivier Cexus, Anis Larbi, Bernett Lee, Evan W Newell,
Blériot	2021	Liver biopsy	Transcrip tomics	No	No	ni.2021.	344697	08.006 75	Lai Guan Ng, Wint Wint Phoo, Radoslaw M Sobota,

								Ankur Sharma, Shanshan W Howland, Jinmiao Chen, Marc Bajenoff, Laurent Yvan-Charvet, Nicolas Venteclef, Matteo Iannacone, Myriam Aouadi, Florent Ginhoux
		Bone marrow, liver biopsy	Transcriptomics	No	No	10.1136/gutjnl-2019-318382	31076404	Oliver Krenkel, Jana Hundertmark, Ali T Abdallah, Marlene Kohlhepp, Tobias Puengel, Tilmann Roth, Diogo Philippini Pontual Branco, Jana C Mossanen, Tom Luedde, Christian Trautwein, Ivan G Costa, Frank Tacke
Krenkel	2019							
			Metagenomics	Yes	No	10.1038/srep32755	00247	Baohong Wang, Xiangyang Jiang, Min Cao, Jianping Ge, Qionglng Bao, Lingling Tang, Yu Chen, Lanjuan Li
Wang	2016	Stool						Maitreyi Raman, Iftikhar Ahmed, Patrick M Gillevet, Chris S Probert, Norman M Ratcliffe, Steve Smith, Rosemary Greenwood, Masoumeh Sikaroodi, Victor Lam, Pam Crotty, Jennifer Bailey, Robert P Myers, Kevin P Rioux
			Metagenomics	Yes	Yes	10.1016/j.cgh.2013.02.015	23454028	
Raman	2013	Stool						
			Metagenomics	Yes	No	10.1371/journal.pone.0125625	25625278	Jerome Boursier, Anna Mae Diehl
Boursier	2015	Stool						

								.ppat.10 04559		Cyrielle Caussy, Anupriya Tripathi, Greg Humphrey,
								10.1038 /s41467		Shirin Bassirian, Seema Singh, Claire Faulkner, Ricki Bettencourt, Emily Rizo, Lisa Richards, Zhenjiang Z Xu,
Caussy	2019	Stool	Metagenomics	Yes	No	-019-09455-9	30926798			Michael R Downes, Ronald M Evans, David A Brenner, Claude B Sirlin, Rob Knight, Rohit Loomba
										Francesca Romana Ponziani, Sherrie Bhoori, Chiara Castelli, Lorenza Putignani, Licia Rivoltini, Federica Del Chierico, Maurizio Sanguinetti, Daniele Morelli, Francesco Paroni Sterbini, Valentina Petito, Sofia Reddel, Riccardo Calvani, Chiara Camisaschi, Anna Picca,
Ponziani	2018	Stool	Metagenomics	Yes	No	10.1002/hep.30036	29665135			Alessandra Tuccitto, Antonio Gasbarrini, Maurizio Pompili, Vincenzo Mazzaferro
Moongi Ji	2022	Liver biopsy, plasma	Metabolo			10.3390/biome	35884973			Moongi Ji, Yunju Jo, Seung Joon Choi, Seong Min Kim, Kyoung Kon Kim, Byung-Chul Oh, Dongryeol Ryu, Man-Jeong Paik, Dae Ho Lee

			transcriptomics			dicines1007166910.1016/j.jprot.2020.103	320580		Xianwen Yuan, Yuanyuan Sun, Qi Cheng, Kai Hu, Juan Ye, Yinjuan Zhao, Jing Wu, Xiaoyan Shao, Lei Fang, Yitao Ding, Xitai Sun, Xiaolei Shi, Bin Xue
Yuan	2020	Liver biopsy	Proteomics	No	No	683	41		Yi Luo, Samir Wadhawan, Alex Greenfield, Benjamin E Decato, Abdul M Oseini, Rebecca Collen, Diane E Shevell, John Thompson, Gabor Jarai, Edgar D Charles, Arun J Sanyal
Luo	2021	Serum	Proteomics	No	No	670	67		Gardar Sveinbjornsson, Magnus O Ulfarsson, Rosa B Thorolfsson, Benedikt A Jonsson, Eythor Einarsson, Gylfi Gunnlaugsson, Solvi Rognvaldsson, David O Arnar, Magnus Baldvinsson, Ragnar G Bjarnason, Thjodbjorg Eiriksdottir, Christian Erikstrup, Egil Ferkingstad, Gisli H Halldorsson, Hannes Helgason, Anna Helgadottir, Lotte Hindhede, Grimur Hjorleifsson,
Sveinbjornsson	2022	Liver biopsy, plasma	Genomics, proteomics	No	Yes	10.1038/s41588-022-01199-5	362807	32	

								David Jones, Kirk U Knowlton, Sigrun H Lund, Pall Melsted, Kristjan Norland, Isleifur Olafsson, Sigurdur Olafsson, Gudjon R Oskarsson, Sisse Rye Ostrowski, Ole Birger Pedersen, Auðunn S Snaebjarnarson, Emil Sigurdsson, Valgerdur Steinthorsdottir, Michael Schwinn, Gudmundur Thorgeirsson, Gudmar Thorleifsson, Ingileif Jonsdottir, Henning Bundgaard, Lincoln Nadauld, Einar S Bjornsson, Ingrid C Rulifson, Thorunn Rafnar, Gudmundur L Norddahl, Unnur Thorsteinsdottir, Patrick Sulem, Daniel F Gudbjartsson, Hilma Holm, Kari Stefansson
								Quentin M Anstee, Rebecca Darlay, Simon Cockell, Marica Meroni, Olivier Govaere, Dina Tiniakos, Alastair D Burt, Pierre Bedossa, Jeremy Palmer, Yang-Lin Liu, Guruprasad P Aithal, Michael Allison, Hannele Yki-Järvinen, Michele Vacca, Jean-Francois Dufour, Pietro Invernizzi, Daniele Prati, Mattias Ekstedt, Stergios
Anstee	2020	Plasma	Genomics	No	No	28	51	
						10.1016		
						/j.jhep.2		
						023.02.0	369222	

									Kechagias, Sven Francque, Salvatore Petta, Elisabetta Bugianesi, Karine Clement, Vlad Ratziu, Jörn M Schattenberg, Luca Valenti, Christopher P Day, Heather J Cordell, Ann K Daly
									Naeimeh Atabaki-Pasdar, Mattias Ohlsson, Ana Viñuela, Francesca Frau, Hugo Pomares-Millan, Mark Haid, Angus G Jones, E Louise Thomas, Robert W Koivula, Azra Kurbasic, Pascal M Mutie, Hugo Fitipaldi, Juan Fernandez, Adem Y Dawed, Giuseppe N Giordano, Ian M Forgie, Timothy J McDonald, Femke Rutters, Henna Cederberg, Elizaveta Chabanova, Matilda Dale, Federico De Masi, Cecilia Engel Thomas, Kristine H Allin, Tue H Hansen, Alison Heggie, Mun-Gwan Hong, Petra J M Elders, Gwen Kennedy, Tarja Kokkola, Helle Krogh Pedersen, Anubha Mahajan, Donna McEvoy, Francois Pattou, Violeta Raverdy, Ragna S Häussler, Sapna Sharma, Henrik S Thomsen, Jagadish Vangipurapu,
Atabaki	2020	Plasma	Genomics	No	Yes	10.1371	325591	94	
-Pasdar			, metabolo mics, proteomi cs, transcript omics			/journal .pmed.1			

									Henrik Vestergaard, Leen M 't Hart, Jerzy Adamski, Petra B Musholt, Soren Brage, Søren Brunak, Emmanouil Dermitzakis, Gary Frost, Torben Hansen, Markku Laakso, Oluf Pedersen, Martin Ridderstråle, Hartmut Ruetten, Andrew T Hattersley, Mark Walker, Joline W J Beulens, Andrea Mari, Jochen M Schwenk, Ramneek Gupta, Mark I McCarthy, Ewan R Pearson, Jimmy D Bell, Imre Pavo, Paul W Franks
Aegidiu s	2020	Liver biopsy	Proteomi cs, transcript omics	No	Yes	10.1038 /s41598-020- 58059-7	319806 90		Helene M Ægidius, Sanne S Veidal, Michael Feigh, Philip Hallenborg, Michele Puglia, Tune H Pers, Niels Vrang, Jacob Jelsing, Birgitte R Kornum, Blagoy Blagoev, Kristoffer T G Rigbolt
Koliaki	2015	Liver biopsy	Genomics , transcript omics	No	Yes	10.1016 /j.cmet. 2015.04.	259552 09		Chrysi Koliaki, Julia Szendroedi, Kirti Kaul, Tomas Jelenik, Peter Nowotny, Frank Jankowiak, Christian Herder, Maren Carstensen, Markus Krausch, Wolfram Trudo Knoefel, Matthias Schlensak, Michael Roden

						10.1111			
		Blood,	Metabolo			/j.1530-			Koji Fujita, Yuichi Nozaki, Masato Yoneda, Koichiro
		liver	mics,			0277.200			Wada, Hirokazu Takahashi, Hiroyuki Kirikoshi,
Fujita	2009	biopsy	transcript	No	Yes	8.00756.	189863		Masahiko Inamori, Satoru Saito, Tomoyuki Iwasaki,
			omics			x	78		Yasuo Terauchi, Shiro Maeyama, Atsushi Nakajima
						10.1152			Dario Greco, Anna Kotronen, Jukka Westerbacka, Oscar
						/ajpgi.0			Puig, Perttu Arkkila, Tuula Kiviluoto, Saara Laitinen,
		Liver	Transcrip			0074.200	183881		Maria Kolak, Rachel M Fisher, Anders Hamsten, Petri
Greco	2008	biopsy	tomics	No	No	8	85		Auvinen, Hannele Yki-Järvinen
									Kenichiro Enooku, Takeya Tsutsumi, Mayuko Kondo,
									Naoto Fujiwara, Takayoshi Sasako, Junji Shibahara,
									Akira Kado, Kazuya Okushin, Hidetaka Fujinaga, Ryo
									Nakagomi, Tatsuya Minami, Masaya Sato, Koji Uchino,
						10.1007			Hayato Nakagawa, Yuji Kondo, Yoshinari Asaoka,
						/s00535			Ryosuke Tateishi, Kohjiro Ueki, Hitoshi Ikeda, Haruhiko
		Liver	Transcrip			-019-	316025		Yoshida, Kyoji Moriya, Hiroshi Yotsuyanagi, Takashi
Enooku	2019	biopsy	tomics	No	No	01633-2	26		Kadowaki, Kazuhiko Koike

Charlton	2009	Liver biopsy	Transcriptomics	No	No	10.1002/hep.22927	19330863	Michael Charlton, Kimberly Viker, Anuradha Krishnan, Schuyler Sanderson, Bart Veldt, A J Kaalsbeek, Michael Kendrick, Geoffrey Thompson, Florencia Que, James Swain, Michael Sarr
Mouzaki	2013	Stool	Metagenomics	Yes	No	10.1002/hep.26319	23401313	Marialena Mouzaki, Elena M Comelli, Bianca M Arendt, Julia Bonengel, Scott K Fung, Sandra E Fischer, Ian D McGilvray, Johane P Allard
Liu	2020	Stool	Metagenomics	Yes	No	10.1016/j.jcmet.2022.03.002	35354069	Yang Liu, Guillaume Méric, Aki S Havulinna, Shu Mei Teo, Fredrik Åberg, Matti Ruuskanen, Jon Sanders, Qiyun Zhu, Anupriya Tripathi, Karin Verspoor, Susan Cheng, Mohit Jain, Pekka Jousilahti, Yoshiki Vázquez-Baeza, Rohit Loomba, Leo Lahti, Teemu Niiranen, Veikko Salomaa, Rob Knight, Michael Inouye
Hoyles	2018	Plasma, stool, urine	Metabolomics, metagenomics	Yes	Yes	10.1038/s41591-018-0061-3	29942096	Lesley Hoyles, José-Manuel Fernández-Real, Massimo Federici, Matteo Serino, James Abbott, Julie Charpentier, Christophe Heymes, Jèssica Latorre Luque, Elodie Anthony, Richard H Barton, Julien Chilloux, Antonis

			Metabolo mics,			10.1128		Myridakis, Laura Martinez-Gili, José Maria Moreno-Navarrete, Fadila Benhamed, Vincent Azalbert, Vincent Blasco-Baque, Josep Puig, Gemma Xifra, Wifredo Ricart, Christopher Tomlinson, Mark Woodbridge, Marina Cardellini, Francesca Davato, Iris Cardolini, Ottavia Porzio, Paolo Gentileschi, Frédéric Lopez, Fabienne Foufelle, Sarah A Butcher, Elaine Holmes, Jeremy K Nicholson, Catherine Postic, Rémy Burcelin, Marc-Emmanuel Dumas
Driuchi na	2023	Plasma, stool	metageno mics	Yes	Yes	/mbio.0 2663-22	367155 40	Anastasiia Driuchina, Jukka Hintikka, Marko Lehtonen, Pekka Keski-Rahkonen, Thomas O'Connell, Risto Juvonen, Juho Kuula, Antti Hakkarainen, Jari A Laukkanen, Elina Mäkinen, Sanna Lensu, Kirsi H Pietiläinen, Satu Pekkala
Grenier- Larouch e		Liver biopsy, plasma	Metabolo mics,	No	Yes	10.1093 /femsec /fiu002	357971 33	Thomas Grenier-Larouche, Lydia Coulter Kwee, Yann Deleye, Paola Leon-Mimila, Jacquelyn M Walejko, Robert W McGarrah, Simon Marceau, Sylvain Trahan, Christine

			transcript omics						Racine, André C Carpentier, Aldons J Lusic, Olga Ilkayeva, Marie-Claude Vohl, Adriana Huertas-Vazquez, André Tchernof, Svati H Shah, Christopher B Newgard, Phillip J White
			Metabolo mics, metageno mics, proteomi			10.1093 /femsec	257645		Sonia Michail, Malinda Lin, Mark R Frey, Rob Fanter, Oleg Paliy, Brian Hilbush, Nicholas V Reo
Michail	2015	Stool	cs	Yes	Yes	/fiu002	41		
			Metabolo mics, metageno			10.1097 /MD.00			
Haize Ge	2022	Stool	mics	Yes	Yes	0000000 0029347	357583 65		Haize Ge, Wei Wei, Liang Tang, Yaqiong Tian, Yu Zhu, Yan Luo, Shuye Liu
Kordy	2021	Oral swabs,	Metabolo mics,	Yes (gut, oral)	Yes	10.3389 /fmicb.	344758 64		Kattayoun Kordy, Fan Li, David J Lee, Jason M Kinchen, Michael H Jew, Maria Eduarda La Rocque, Sara Zabih,

		plasma, stool	metageno mics Metabolo mics, metageno mics			2021.713 234		Monica Saavedra, Cora Woodward, Nicole J Cunningham, Nicole H Tobin, Grace M Aldrovandi
Sui	2021	Stool	mics Metabolo mics, metageno mics	Yes	Yes	/aging. 203460	344736 44	Guoyuan Sui, Lianqun Jia, Dongmei Quan, Na Zhao, Guanlin Yang
Da Silva	2018	Serum, stool	metageno mics	Yes	Yes	-018- 19753-9	293624 54	Hannah E Da Silva, Anastasia Teterina, Elena M Comelli, Amel Taibi, Bianca M Arendt, Sandra E Fischer, Wendy Lou, Johane P Allard
Testerman	2022	Stool	Metageno mics	Yes	No	/hep4.1 944	353442 83	Todd Testerman, Zhongyao Li, Brittany Galuppo, Joerg Graf, Nicola Santoro
Zhao	2019	Stool	Metageno mics	Yes	No	019.0051 8	319217 29	Yuzhen Zhao, Jianli Zhou, Jiaqi Liu, Zhaoxia Wang, Moxian Chen, Shaoming Zhou

			Metabolo			10.3389			
			mics,			/fcimb.			
			metageno			2021.698	345680		Jiake Yu, Hu Zhang, Liya Chen, Yufei Ruan, Yiping Chen,
Jiake Yu	2021	Stool	mics	Yes	Yes	852	90		Qi Li
									Kazuhiro Kozumi, Takahiro Kodama, Hiroki Murai,
									Sadatsugu Sakane, Olivier Govaere, Simon Cockell,
									Daisuke Motooka, Naruyasu Kakita, Yukinori Yamada,
									Yasuteru Kondo, Yuki Tahata, Ryoko Yamada, Hayato
									Hikita, Ryotaro Sakamori, Yoshihiro Kamada, Ann K
		Liver	Transcrip			10.1002			Daly, Quentin M Anstee, Tomohide Tatsumi, Eiichi
Kozumi	2021	biopsy	tomics	No	No	/hep.31	341057		Morii, Tetsuo Takehara
									Olivier Govaere, Simon Cockell, Dina Tiniakos, Rachel
									Queen, Ramy Younes, Michele Vacca, Leigh Alexander,
									Federico Ravaioli, Jeremy Palmer, Salvatore Petta, Jerome
									Boursier, Chiara Rosso, Katherine Johnson, Kristy
		Liver	Transcrip			10.1126			Wonders, Christopher P Day, Mattias Ekstedt, Matej
Govaere	2020	biopsy	tomics	No	No	/scitran	332685		Orešič, Rebecca Darlay, Heather J Cordell, Fabio Marra,
						slmed.a	332685		
						ba4448	09		

Thangapandi	2020	Liver biopsy	Lipidomics, transcriptomics	No	Yes	10.1136/gutjnl-2020-320853	325914	34	Antonio Vidal-Puig, Pierre Bedossa, Jörn M Schattenberg, Karine Clément, Michael Allison, Elisabetta Bugianesi, Vlad Ratziu, Ann K Daly, Quentin M Anstee Veera Raghavan Thangapandi, Oskar Knittelfelder, Mario Brosch, Eleonora Patsenker, Olga Vvedenskaya, Stephan Buch, Sebastian Hinz, Alexander Hendricks, Marina Nati, Alexander Herrmann, Devavrat Ravindra Rekhade, Thomas Berg, Madlen Matz-Soja, Klaus Huse, Edda Klipp, Josch K Pauling, Judith Ah Wodke, Jacobo Miranda Ackerman, Malte von Bonin, Elmar Aigner, Christian Datz, Witigo von Schönfels, Sophie Nehring, Sebastian Zeissig, Christoph Röcken, Andreas Dahl, Triantafyllos Chavakis, Felix Stickel, Andrej Shevchenko, Clemens Schafmayer, Jochen Hampe, Pallavi Subramanian
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									Flavia N Mazzini, Frank Cook, John Gounarides, Sebastián Marciano, Leila Haddad, Ana Jesica Tamaroff, Paola Casciato, Adrián Narvaez, María Florencia Mascardi, Margarita Anders, Federico Orozco, Nicolás Quiróz, Marcelo Risk, Susana Gutt, Adrián Gadano, Celia Méndez García, Martin L Marro, Alberto Penas-Steinhardt, Julieta Trink
Mazzini	2021	Plasma, stool	Metabolo mics	Yes	No	10.1007 /s11306-021-01810-6	341379 37		Florencia Mascardi, Flavia Noelia Mazzini, Bárbara Suárez, Vera M Ruda, Sebastián Marciano, Paola Casciato, Adrián Narvaez, Leila Haddad, Margarita Anders, Federico Orozco, Ana Jesica Tamaroff, Frank Cook, John Gounarides, Susana Gutt, Adrián Gadano, Celia Méndez García, Martin L Marro, Alberto Penas-Steinhardt, Julieta Trink
Mascardi	2023	Stool	Metabolo mics, transcript omics	Yes	Yes	10.1002 /pmic.202200414	375253 33		Johannie du Plessis, Jos van Pelt, Hannelie Korf, Chantal Mathieu, Bart van der Schueren, Matthias Lannoo, Tom Oyen, Baki Topal, Gary Fetter, Simon Nayler, Tessa van
du Plessis	2015	Adipose tissue	Transcrip tomics	No	No	10.1053 /j.gastr	260285 79		

						o.2015.0		der Merwe, Petra Windmolders, Luc Van Gaal, An Verrijken, Guy Hubens, Martin Gericke, David Cassiman, Sven Francque, Frederik Nevens, Schalk van der Merwe
						5.044		
						10.1152		
						/ajpgi.0		Naga Chalasani, Shusuke Toden, John J Sninsky, Richard P Rava, Jerome V Braun, Samer Gawrieh, Jiali Zhuang, Michael Nerenberg, Stephen R Quake, Tara Maddala Wasco Wruck, Karl Kashofer, Samrina Rehman, Andriani Daskalaki, Daniela Berg, Ewa Gralka, Justyna Jozefczuk, Katharina Drews, Vikash Pandey, Christian Regenbrecht, Christoph Wierling, Paola Turano, Ulrike Korf, Kurt
Chalasa	2021	Serum	Transcrip	No	No	0397.202	335018	
ni			tomics			0	84	
			Metabolo					
			mics,					
			proteomi					
		Liver	cs,			10.1038		
		biopsy,	transcript			/sdata.2	266469	Zatloukal, Hans Lehrach, Hans V Westerhoff, James
Wruck	2015	serum	omics	No	Yes	015.68	39	Adjaye
		Liver	Epigeno			10.1053	239168	Susan K Murphy, Hyuna Yang, Cynthia A Moylan,
Murphy	2013	biopsy	mics,	No	Yes	/j.gastr	47	Herbert Pang, Andrew Dellinger, Manal F Abdelmalek,

			transcript			o.2013.0		Melanie E Garrett, Allison Ashley-Koch, Ayako Suzuki,
			omics			7.047		Hans L Tillmann, Michael A Hauser, Anna M Diehl
								Ville T Männistö, Marko Simonen, Jenni Hyysalo, Pasi
								Soininen, Antti J Kangas, Dorota Kaminska, Ananda K
								Matte, Sari Venesmaa, Pirjo Käkelä, Vesa Kärjä, Johanna
						10.1111		Arola, Helena Gylling, Henna Cederberg, Johanna
Männistö			Metabolo			/liv.127	255331	Kuusisto, Markku Laakso, Hannele Yki-Järvinen, Mika
ö	2015	Serum	mics	No	No	69	97	Ala-Korpela, Jussi Pihlajamäki
			Metabolo					Silvia Sookoian, Gustavo O Castaño, Romina Scian,
		Liver	mics,			10.3945		Tomas Fernández Gianotti, Hernán Dopazo, Cristian
Sookoian		biopsy,	transcript			/ajcn.11	267911	Rohr, Graciela Gaj, Julio San Martino, Ina Sevic, Diego
n	2016	serum	omics	No	Yes	5.118695	91	Flichman, Carlos J Pirola
