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Genetic and Molecular Epidemiology
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Employment

Postdoctoral fellow

Genetic and Molecular Epidemiology
Lund University
Malmö, Sweden
2019 Jan 29 → present

Member of Strategic Research Area

EXODIAB: Excellence of Diabetes Research in Sweden
Lund University
Malmö, Sweden
2019 Jan 9 → present

Postdoctoral fellow

Diabetic Complications
Lund University
Malmö, Sweden
2024 Apr 15 → present

Research outputs

BMI subclassification and future risk of metabolic dysfunction-associated steatotic liver disease and liver-related events

Zhang, S., Coral, D. E., Huo, Z., Borné, Y., Zheng, M.-H., Huang, T. & Qi, L., 2026 Jan 29, (E-pub ahead of print) In: The Journal of nutrition. 101386.

A biological-systems-based analysis using proteomic and metabolic network inference reveals mechanistic insights into hepatic steatosis

Atabaki, N. N., Coral, D. E., Pomares-Millan, H., Behjat, H. H., Fernandez-Tajes, J. J., Kalamajski, S., Giordano, G. N., Ohlsson, M., Ridderstråle, M., Franks, P. W. & et al., 2026, In: Metabolism: Clinical and Experimental. 178, 156552.

BMI-residualized data uncovers a cluster of people with type 2 diabetes and increased serum ferritin protected from cardiovascular disease

Gallardo-Nuell, L., Blanch, J., Leal, Y., Coral, D. E., Duarte-Salles, T., Giordano, G. N., Franks, P. W., Pearson, E. R., Mingrone, G., Le Roux, C. W., Ramos, R. & Fernández-Real, J. M., 2025 Dec, In: Cardiovascular Diabetology. 24, 1, 139.

Subclassification of obesity for precision prediction of cardiometabolic diseases

Coral, D. E., Smit, F., Farzaneh, A., Gieswinkel, A., Tajés, J. F., Sparsø, T., Delfin, C., Bauvin, P., Wang, K., Temprosa, M., De Cock, D., Blanch, J., Fernández-Real, J. M., Ramos, R., Ikram, M. K., Gomez, M. F., Kavousi, M., Panova-Noeva, M., Wild, P. S. & van der Kallen, C. & 9 others, Adriaens, M., van Greevenbroek, M., Arts, I., Le Roux, C., Ahmadizar, F., Frayling, T. M., Giordano, G. N., Pearson, E. R. & Franks, P. W., 2025, In: Nature Medicine. 31, 2, p. 534-543

A Federated Database for Obesity Research: An IMI-SOPHIA Study

Delfin, C., Dragan, I., Kuznetsov, D., Tajés, J. F., Smit, F., Coral, D. E., Farzaneh, A., Haugg, A., Hungele, A., Niknejad, A., Hall, C., Jacobs, D., Marek, D., Fraser, D. P., Thuillier, D., Ahmadizar, F., Mehl, F., Pattou, F., Burdet, F. & Hawkes, G. & 28 others, Arts, I. C. W., Blanch, J., Van Soest, J., Fernández-Real, J. M., Boehl, J., Fink, K., van Greevenbroek, M. M. J., Kavousi, M., Minten, M., Prinz, N., Ipsen, N., Franks, P. W., Ramos, R., Holl, R. W., Horban, S., Duarte-Salles, T., Tran, V. D. T., Raverdy, V., Leal, Y., Lenart, A., Pearson, E., Sparsø, T., Giordano, G. N., Ioannidis, V., Soh, K., Frayling, T. M., Le Roux, C. W. & Ibberson, M., 2024 Feb, In: Life. 14, 2, 262.

Genetic and phenotypic discordance in cardiometabolic diseases

Coral, D., 2024, Lund: Lund University, Faculty of Medicine. 104 p.

Human Genetic Variation at rs10071329 Correlates with Adiposity-related Traits, Modulates PPARGC1B Expression, and Alters Brown Adipocyte Function

Huang, M., Prasad, R. B., Coral, D. E., Hjort, L., Minja, D. T. R., Mulder, H., Franks, P. W. & Kalamajski, S., 2024, In: Diabetes. 73, 4, p. 637-645

Identification of a weight loss-associated causal eQTL in MTIF3 and the effects of MTIF3 deficiency on human adipocyte function

Huang, M., Coral, D., Ardalani, H., Spégel, P., Saadat, A., Claussnitzer, M., Mulder, H., Franks, P. W. & Kalamajski, S., 2023 Mar 6, In: eLife. 12:e84168.

Proteogenomic mapping sets stage for precision medicine

Coral, D. E. & Franks, P. W., 2023 Mar, In: Nature Metabolism. 5, 3, p. 366–367 2 p.

A phenome-wide comparative analysis of genetic discordance between obesity and type 2 diabetes

Coral, D. E., Fernandez-Tajes, J., Tsereteli, N., Pomares-Millan, H., Fitipaldi, H., Mutie, P. M., Atabaki-Pasdar, N., Kalamajski, S., Poveda, A., Miller-Fleming, T. W., Zhong, X., Giordano, G. N., Pearson, E. R., Cox, N. J. & Franks, P. W., 2023 Feb, In: Nature Metabolism. 5, 2, p. 237–247 11 p.

Engineered allele substitution at PPARGC1A rs8192678 alters human white adipocyte differentiation, lipogenesis, and PGC-1 α content and turnover

Huang, M., Claussnitzer, M., Saadat, A., Coral, D., Kalamajski, S. & Franks, P., 2023, In: Diabetologia. 66, 7, p. 1289-1305 17 p.

Investigating the causal relationships between excess adiposity and cardiometabolic health in men and women

Mutie, P. M., Pomares-Milan, H., Atabaki-Pasdar, N., Coral, D., Fitipaldi, H., Tsereteli, N., Tajés, J. F., Franks, P. W. & Giordano, G. N., 2023, In: Diabetologia. 66, 2, p. 321-335

Estimating the Direct Effect between Dietary Macronutrients and Cardiometabolic Disease, Accounting for Mediation by Adiposity and Physical Activity

Pomares-Millan, H., Atabaki-Pasdar, N., Coral, D., Johansson, I., Giordano, G. N. & Franks, P. W., 2022 Mar 1, In: Nutrients. 14, 6, 1218.

Inferring causal pathways between metabolic processes and liver fat accumulation: an IMI DIRECT study

Atabaki-Pasdar, N., Pomares-Millan, H., Koivula, R. W., Tura, A., Brown, A., Viñuela, A., Agudelo, L., Coral, D., van Oort, S., Allin, K., Chabanova, E., Cederberg, H., De Masi, F., Elders, P., Tajés, J. F., Forgie, I. M., Hansen, T. H., Heggie, A., Jones, A. & Kokkola, T. & 30 others, Mahajan, A., McDonald, T. J., McEvoy, D., Tsirogos, K., Teare, H., Vangipurapu, J., Vestergaard, H., Adamski, J., Beulens, J. W., Brunak, S., Dermitzakis, E., Hansen, T., Hattersley, A. T., Laakso, M., Pedersen, O., Ridderstråle, M., Ruetten, H., Rutters, F., Schwenk, J. M., Walker, M., Giordano, G. N., Ohlsson, M., Gupta, R., Mari, A., McCarthy, M. I., Thomas, E. L., Bell, J. D., Pavo, I., Pearson, E. R. & Franks, P. W., 2021, medRxiv, (medRxiv).

Characterisation of the genetic discordance between body mass index and type 2 diabetes: a phenome-wide analysis: No 111

Fernandez Tajés, J. (Contributor), Tsereteli, N. (Contributor), Franks, P. (Contributor) & Coral, D., 2020 Sept 1, In: Diabetologia. 63

Activities

Journal Lunch - Genetic discordance between LDL and Type 2 Diabetes

Coral, D. (Presenter)
2021 Feb 16

Nature Medicine (Journal)

Coral, D. (Role not specified) & Franks, P. (Role not specified)
2020 Dec 18 → 2021 Jan 15

Progress report - Subtyping of obesity and T2D using genetic discordance

Coral, D. (Speaker) & Franks, P. (Chair)
2020 Oct 20

Characterisation of the genetic discordance between body mass index and type 2 diabetes: a phenome-wide analysis

Coral, D. (Role not specified)
2020 Sept 23

Vanderbilt University Medical Center

Coral, D. (Visiting researcher) & Cox, N. J. (Role not specified)
2020 Jul 10 → 2020 Jul 12

Journal Lunch - Genetic architecture of human thinness compared to severe obesity

Coral, D. (Speaker) & Franks, P. (Chair)
2019 Mar 5

Projects

IMI2 SOPHIA: Stratification of obese phenotypes to optimize future obesity therapy

Coral, D. (Researcher), Franks, P. (PI) & Giordano, N. (Researcher)
2020/06/01 → 2025/05/31