

Bobby Lo
Gastrounit, Medical Division
Gastro Unit
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Kettegård Allé 30
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Main research areas

Main research areas

A medical researcher with several years of experience in epidemiological research and the use of artificial intelligence in connection with disease characterisation and disease prediction among patients with Crohn's disease and ulcerative colitis. Furthermore, several experiences as an investigator on clinical trials.

Currently, the main focus is *The PRESAGER project* which involves new innovative IT methods to better classify the many aspects (including endoscopy and histology) of Crohn's disease and ulcerative colitis by utilising, e.g. artificial intelligence in an interdisciplinary collaboration with the Department of Computer Science at the University of Copenhagen. The results will pave the way for new and better tools to help the clinician choose the proper treatment for patients with Crohn's disease and ulcerative colitis; and, in the long run, predict the course of the disease in the individual patient.

Employment

Gastrounit, Medical Division

The Capital Region of Denmark
Hvidovre, Denmark
15 Oct 2012 → present

Researcher

Copenhagen IBD Centre
Denmark
Projects

Impact on gut microbiota, weight loss and weight development by probiotic supplement (Vivomixx)

01/10/2014 → ...

Presager project – Use of computer science in classifying and predicting disease course in Inflammatory bowel disease

01/01/2020 → ...

The International COVID GI Study

01/01/2020 → ...

Prizes

Y-ECCO Congress Abstract Award (2021)

Lo, Bobby (Recipient), 2021

Dissemination

Oral presentations of original research at UEG Week, DDW, ECCO

Reviewer for some of the highest-ranking international journals incl. American Journal of Gastroenterology

Invited speaker for events and meetings

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Researcher

Copenhagen IBD Centre
Denmark

Projects

Impact on gut microbiota, weight loss and weight development by probiotic supplement (Vivomixx)

Halkjær, S. I. (Project participant), Lo, B. (Project participant), Cortes, D. (Project participant), Mirsepasi-Lauridsen, H. C. (Project participant), Andersen, L. O. (Project participant), Stensvold, C. R. (Project participant), Worning, P. (Project participant), Kallemose, T. (Project participant), Krogfelt, K. A. (Project participant) & Petersen, A. M. (Project participant)
01/10/2014 → ...

Presager project – Use of computer science in classifying and predicting disease course in Inflammatory bowel disease

Lo, B. (Project participant)
01/01/2020 → ...

The International COVID GI Study

Lo, B. (Project participant)
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Prizes

Y-ECCO Congress Abstract Award (2021)

Lo, B. (Recipient), 2021

DISSEMINATION

Oral presentations of original research at UEG Week, DDW, ECCO
Reviewer for some of the highest-ranking international journals incl. American Journal of Gastroenterology
Invited speaker for events and meetings

Research outputs

Changes in nasal and throat microbiota composition during and after mupirocin and chlorhexidine decolonisation treatment in asymptomatic MRSA carriers: a longitudinal observational study

Edslev, S. M., Liu, C. M., Lo, B. Z. S., Meiniche, H., Lilje, B., Park, D. E., Rendboe, A., Pham, T., Salazar, J. E., Toudahl, T., Ingham, A. C., Aziz, M., Bartels, M. D., Andersen, P. S., Skov, R. L., Price, L. B. & Stegger, M., 24 Feb 2026, (E-pub ahead of print) In: *Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases*.

Improving the Real-Time Classification of Disease Severity in Ulcerative Colitis: Artificial Intelligence as the Trigger for a Second Opinion

Lo, B., Møller, B., Igel, C., Wildt, S., Vind, I., Bendtsen, F., Burisch, J. & Ibragimov, B., 1 Feb 2026, In: *The American journal of gastroenterology*. 121, 2, p. 396-403 8 p.

Clinical Trial: Evaluating a Single 1600mg Tablet Regimen of 5-Aminosalicylate for Ulcerative Colitis-The EASI Trial

Nordestgaard, R. L. M., Lo, B., Bergstrøm, R., Adzioski, I., Skotte, H., Hawwa, I. M., Holme, S. K., Tiftikci, B., Majchrzak, K., Vind, I., Bendtsen, F. & Burisch, J., Nov 2025, In: *Alimentary Pharmacology and Therapeutics*. 62, 9, p. 877-886 10 p.

Incidence and Long-Term Outcomes of Pouchitis in Ulcerative Colitis Patients

Bergstrøm, R., Lo, B., Toft, E., Schmidt, S., Kaiser, S., Kudernatsch, R., Bulut, O., Bendtsen, F. & Burisch, J., Nov 2025, In: *United European Gastroenterology Journal*. 13, 9, p. 1765-1775 11 p.

Histological, But Neither Clinical Nor Endoscopic Activity Predicts the Risk of Colectomy in Patients With Ulcerative Colitis Treated With Biologics

Zhao, M., Riis, L. B., Lo, B., Attauabi, M., Ovesen, P. D., Wewer, M. D., Larsen, L., Dige, A., Hvas, C. L., Poulsen, A., Christiansen, D., Nagras, Z. G., Dahlin, P., Petersen, A. M., Bendtsen, F., Seidelin, J. & Burisch, J., 1 Aug 2025, In: *Inflammatory Bowel Diseases*. 31, 8, p. 2134-2143 10 p.

Global evolution of inflammatory bowel disease across epidemiologic stages

Hracs, L., Windsor, J. W., Gorospe, J., Cummings, M., Coward, S., Buie, M. J., Quan, J., Goddard, Q., Caplan, L., Markovinović, A., Williamson, T., Abbey, Y., Abdullah, M., Abreu, M. T., Ahuja, V., Raja Ali, R. A., Altuwajiri, M., Balderramo, D., Banerjee, R. & Benchimol, E. I. & 31 others, Bernstein, C. N., Brunet-Mas, E., Burisch, J., Chong, V. H., Dotan, I., Dutta, U., El Ouali, S., Forbes, A., Forss, A., Geary, R., Dao, V. H., Hartono, J. L., Hilmi, I., Hodges, P., Jones, G.-R., Juliao-Baños, F., Kaibullayeva, J., Kelly, P., Kobayashi, T., Kotze, P. G., Lakatos, P. L., Lees, C. W., Limsrivilai, J., Lo, B., Loftus, E. V., Ludvigsson, J. F., Mak, J. W. Y., Miao, Y., Ng, K. K., Okabayashi, S. & Global IBD Visualization of Epidemiology Studies in the 21st Century (GIVES-21) Research Group, Jun 2025, In: *Nature*. 642, 8067, p. 458-466 9 p.

Clinical Outcomes After First-Line Anti-Tumor-Necrosis-Factor Treatment of Patients With Inflammatory Bowel Disease-A Prospective Multicenter Cohort Study

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Probiotic Treatment of Ulcerative Colitis with *Trichuris suis* ova: A Randomised, Double-blinded, Placebo-controlled Clinical Trial [the PROCTO Trial]

Prosberg, M. V., Halkjær, S. I., Lo, B., Bremerskov-Köser, C., Ilvemark, J. F. K. F., Seidelin, J. B., Kristiansen, M. F., Kort, A., Kallemsø, T., Bager, P., Bendtsen, F., Nordgaard-Lassen, I., Kapel, H. S., Kringel, H., Kapel, C. M. O. & Petersen, A. M., 4 Nov 2024, In: *Journal of Crohn's & colitis*. 18, 11, p. 1879-1893 15 p.

Building an AI Support Tool for Real-Time Ulcerative Colitis Diagnosis

Møller, B. L., Lo, B. Z. S., Burisch, J., Bendtsen, F., Vind, I., Ibragimov, B. & Igel, C., Nov 2024, In: *KI - Kunstliche Intelligenz*. 38, p. 169-176 8 p.

Specific Antibiotics Increase the Risk of Flare-Ups in Patients with Inflammatory Bowel Disease: Results from a Danish Nationwide Population-Based Nested Case-Control Study

Lo, B., Biederman, L., Rogler, G., Dora, B., Kreienbühl, A., Vind, I., Bendtsen, F. & Burisch, J., 14 Aug 2024, In: *Journal of Crohn's & colitis*. 18, 8, p. 1232-1240 9 p.

The first steps towards clinical application of artificial intelligence in inflammatory bowel diseases

Lo, B., Jan 2024

Exploring the Impact of Covid-19-Related Perceptions on Psychological Distress and Quality of Life in an International Gastrointestinal Cohort Over Time Guided by the Common Sense Model

Knowles, S. R., Möller, S. P., Stengel, A., Mikocka-Walus, A., Ferreira, N., Trindade, I. A., Mokrowiecka, A., Burisch, J., Barreiro-de Acosta, M., Bernstein, C. N., Lo, B. & Skvarc, D., Dec 2023, In: *Journal of clinical psychology in medical settings*. 30, 4, p. 804-820 17 p.

Disease course and treatment outcomes of Crohn's disease patients with early or late surgery - A Danish nationwide cohort study from 1997 to 2015

Sarikaya, M. Z., Zhao, M., Lo, B., Bendtsen, F. & Burisch, J., 1 Jul 2023, In: *Digestive and liver disease : official journal of the Italian Society of Gastroenterology and the Italian Association for the Study of the Liver*. 55, 7, p. 872-879 8 p.

Fecal microbiota transplantation for the treatment of irritable bowel syndrome: A systematic review and meta-analysis

Halkjær, S. I., Lo, B., Cold, F., Højer Christensen, A., Holster, S., König, J., Brummer, R. J., Aroniadis, O. C., Lahtinen, P., Holvoet, T., Gluud, L. L. & Petersen, A. M., 28 May 2023, In: *World Journal of Gastroenterology*. 29, 20, p. 3185-3202 18 p.

Identifying patients with inflammatory bowel disease in the Danish National Patient Register

Lo, B., Zhao, M. & Burisch, J., 27 Mar 2023, In: *Danish Medical Journal*. 70, 4, A07220458.

The incidence and prevalence of paediatric- and adult-onset inflammatory bowel disease in Denmark during a 37-year period - a nationwide cohort study (1980-2017)

Dorn-Rasmussen, M., Lo, B., Zhao, M., Kaplan, G. G., Malham, M., Wewer, V. & Burisch, J., 18 Mar 2023, In: *Journal of Crohn's & colitis*. 17, 2, p. 259-268 10 p.

Survey uncovering variations in the management of primary sclerosing cholangitis across Europe

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High accuracy in classifying endoscopic severity in ulcerative colitis using convolutional neural network

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Fear of COVID-19 Among Patients with Inflammatory Bowel Disease as Compared to Patients with Other Gastrointestinal Conditions

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Histological Inflammation in the Endoscopically Uninflamed Mucosa is Associated With Worse Outcomes in Limited Ulcerative Colitis

de Frias Gomes, C. G., de Almeida, A. S. R., Mendes, C. C. L., Ellul, P., Burisch, J., Buhagiar, T., Attard, A., Lo, B., Ungaro, R. C., da Silva Morão, B. T., Gouveia, C. F., de Carvalho E Branco, J. M. D., Rodrigues, J. M. M. P., Teixeira, C., Dias de Castro, M. F. F., Nunes, G. F. D., Brito, M., de Sousa Antunes, M. C., Borralho Nunes, P. M. F. B. & da Silva Torres, J. M. T., 2 Mar 2022, In: Inflammatory Bowel Diseases. 28, 3, p. 350-357 8 p., izab069.

The impact of the coronavirus (COVID-19) pandemic on individuals with gastrointestinal disorders: A protocol of an international collaborative study

Ferreira, N., Mikocka-Walus, A., van Tilburg, M. A. L., Graff, L. A., Apputhurai, P., Acosta, M.B.-D., Evertsz, F. B., Burisch, J., Lo, B., Petrik, M., Trindade, I. A., Jedel, S., Moser, G., Mokrowiecka, A., Bernstein, C. N., Dumitrascu, D., Ford, A. C., Stengel, A., Geary, R. & Knowles, S. R., Sept 2021, In: Journal of Psychosomatic Research. 148, p. 1-7 7 p., 110561.

The risk of extra-intestinal cancer in inflammatory bowel disease: a systematic review and meta-analysis of population-based cohort studies

Lo, B., Zhao, M., Vind, I. & Burisch, J., 1 Jun 2021, In: Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association. 19, 6, p. 1117-1138 22 p., 19.

Validation of ulcerative colitis and Crohn's disease and their phenotypes in the Danish National Patient Registry using a population-based cohort

Lo, B., Vind, I., Vester-Andersen, M. K. & Burisch, J., 2 Oct 2020, In: Scandinavian Journal of Gastroenterology. 55, 10, p. 1171-1175 5 p.

Systematic review of the prevalence and development of osteoporosis or low bone mineral density and its risk factors in patients with inflammatory bowel disease

Kärnsund, S., Lo, B., Bendtsen, F., Holm, J. & Burisch, J., 21 Sept 2020, In: World Journal of Gastroenterology. 26, 35, p. 5362-5374 13 p.

Incidence, risk factors and evaluation of osteoporosis in patients with inflammatory bowel disease - a Danish population-based inception cohort with 10 years of follow-up

Lo, B., Holm, J. P., Vester-Andersen, M. K., Bendtsen, F., Vind, I. & Burisch, J., 30 Jul 2020, In: Journal of Crohn's & colitis. 14, 7, p. 904-914 11 p.

Multistrain Probiotic Increases the Gut Microbiota Diversity in Obese Pregnant Women: Results from a Randomized, Double-Blind Placebo-Controlled Study

Halkjær, S. I., de Knegt, V. E., Lo, B., Nilas, L., Cortes, D., Pedersen, A. E., Mirsepasi-Lauridsen, H. C., Andersen, L. O., Nielsen, H. V., Stensvold, C. R., Johannesen, T. B., Kallemoose, T., Krogfelt, K. A. & Petersen, A. M., Jul 2020, In: Current

Developments in Nutrition. 4, 7, p. 1-13 13 p., nzaa095.

Fecal microbiota transplantation for treatment of irritable bowel syndrome

Halkjær, S. I., Lo, B., Cold, F., Christensen, A. H. H., Gluud, L. L. & Petersen, A. M., 18 May 2020, In: Cochrane Database of Systematic Reviews. 2020, 5, p. 1-14 14 p., CD013602.

Direct and Indirect Costs of Inflammatory Bowel Disease: Ten Years of Follow Up in a Danish Population-Based Inception Cohort

Lo, B., Vind, I., Vester-Andersen, M. K., Bendtsen, F. & Burisch, J., 1 Jan 2020, In: Journal of Crohn's & colitis. 14, 1, p. 53-63 11 p.

Health-related quality of life in inflammatory bowel disease in a Danish population-based inception cohort

Christiansen, L. K., Lo, B., Bendtsen, F., Vind, I., Vester-Andersen, M. K. & Burisch, J., Aug 2019, In: United European Gastroenterology Journal. 7, 7, p. 942-954 13 p.

A 10-Year Follow-up Study of the Natural History of Perianal Crohn's Disease in a Danish Population-Based Inception Cohort

Zhao, M., Lo, B., Vester-Andersen, M. K., Vind, I., Bendtsen, F. & Burisch, J., 18 Jun 2019, In: Inflammatory Bowel Diseases. 25, 7, p. 1227-1236 10 p.

Paediatric onset inflammatory bowel disease is a distinct and aggressive phenotype - a comparative population-based study

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Faecal microbiota transplantation alters gut microbiota in patients with irritable bowel syndrome: results from a randomised, double-blind placebo-controlled study

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Disease activity, steroid use and extraintestinal manifestation are associated with increased disability in patients with inflammatory bowel disease using the inflammatory bowel disease disability index: a cross-sectional multicentre cohort study

Lo, B., Julsgaard, M., Vester-Andersen, M. K., Vind, I. & Burisch, J., 1 Sept 2018, In: European journal of gastroenterology & hepatology. 30, 10, p. 1130-1136

Changes in Disease Behaviour and Location in Patients With Crohn's Disease After Seven Years of Follow-Up: A Danish Population-based Inception Cohort

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Characterization of the enhancer and promoter landscape of inflammatory bowel disease from human colon biopsies

Boyd, M., Thodberg, M., Vitezic, M., Bornholdt, J., Vitting-Seerup, K., Chen, Y., Coskun, M., Li, Y., Lo, B., Klausen, P., Jan Schweiger, P., Pedersen, A. G., Rapin, N., Skovgaard, K., Dahlgaard, K., Andersson, R., Terkelsen, T. B., Lilje, B., Troelsen, J. T. & Petersen, A. M. & 6 others, Jensen, K. B., Gögenur, I., Thielsen, P., Seidelin, J. B., Nielsen, O. H. & Sandelin, A., 1 Apr 2018, In: Nature Communications. 9, 1, p. 1661

Systematic review and meta-analysis: assessment of factors affecting disability in inflammatory bowel disease and the reliability of the inflammatory bowel disease disability index

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