

CURRICULUM VITAE: CARL-HENRIK BROGREN

A: Education

1965-1974 University of Copenhagen, Cand.scient. in biochemistry and immunchemistry
1977 Institut Pasteur i Paris, Diplome d'Immunologie Approfondie (Ph.D)

B: Positions and Honors.

1973-1974	The Protein Laboratory, University of Copenhagen, Denmark. Deputy assistant professor.
1975	Service d'Immunologie Cellulaire, Institut Pasteur, Paris, France. Research fellow.
1975-76	Pathological-Anatomical Institute, County Hospital, Copenhagen. Research associate.
1977	Unité Neurobiologie Moléculaire, Institut Pasteur, Paris, France, Research associate, EMBO-fellow.
1978-1981	Institute of Experimental Immunology, University of Copenhagen. Predoctoral fellow.
1981-1983	Hagedorn Research Institute, Novo-Nordisk A/S, Gentofte, Denmark, Postdoctoral fellow.
1983	Hôpital Broussais, Paris, France. Research associate, INSERM postdoctoral fellowship.
1983-1985	Institute of Occupational Health, Ministry of Labour, Copenhagen. Senior chemist.
1985-1988	Department of Animal Physiology, University of Copenhagen. Assistant professor.
1988-1989	Centre d'Océanologie de Marseille, Université d'Aix-Marseille, France. Research director DR1 EPHE.
1990-2002	Institute of Food Safety, Ministry of Health, Copenhagen, Denmark. Senior scientist.
2002-2004	Department of Food Science, University of Copenhagen, Denmark, Associate professor.
2005-2010	Department of Biomedical Sciences, University of Copenhagen. Ass. professor, Research coordinator.
2010-to now	The Bartholin Institute, Rigshospitalet, Copenhagen Biocenter, Copenhagen, Associate professor.
2012-to now	CEO and CSO, ImmunoSigns, Hellerup. Denmark.

C: Honors and Memberships:

1975	Danish Pasteur Society fellowship
1977	EMBO fellowship, Institut Pasteur, Paris, France.
1983	INSERM fellowship, Hôpital Broussais, Paris, France.
1983-to now	Member of the European Association for the Study of Diabetes
1986	NATO fellowship. McGill University, Victoria Hospital, Montreal, Canada.
1997-2007	President of the Nordic Separation Science Society
1998-2012	Vice-president of the Danish Society for Flow Cytometry
2001	Fulbright senior fellowship, The Sandoz-Burnham Institute, La Jolla, California, USA.
2004	Chair Joliot, Ecole Supérieure de Physique et Chimie Industrielles, Paris, France.
2005	Danish Pasteur Society, senior fellowship
2005-2008	BioCampus research priority area coordinator, University of Copenhagen.
2006-to now	Member of the American Diabetes Association (ADA)
2007-to now	Member of the Immunology of Diabetes Society
2008	Chair Curie-Joliot, Ecole Supérieure de Physique et de Chimie Industrielles, Paris, France.
2009	Referee for Diabetologia, Germany
2010	Chevalier dans L'Ordre des Palmes Académiques, Paris, France
2011-2012	Member of the Advisory scientific board for the 1st World Diabetes Congress, Beijing, China.

D: Selected peer-reviewed publications (in chronological order).

1. Brogren CH, and Lernmark A.: Islet Cell Antibodies in Diabetes. Clinics in Endocrinology and Metabolism. 11 (2), 409-430. 1982 (review).
2. Brogren CH and Andersen P: BB Wistar Rat Monoclonal Autoantibodies. Metabolism – Clinical and Experimental, 32 (7), 165 (1983)
3. Brogren CH, Baekkeskov S, Dyrberg T, Lernmark A, Marner B, Nerup J, and Papadopoulos GK.: Role of islet cell antibodies in the pathogenesis of type 1 diabetes. Current Problems in Clinical Biochemistry 12, 65-85. 1983
4. Brogren CH, Hirsch F, Wood P, Druet P, and Poussier P.: Production and characterization of a monoclonal islet cell surface autoantibody from the BB rat. Diabetologia 29 (5), 330-333. 1986.
5. Brogren CH, Buschard K, Ropke C, and Rygaard J.: Genetics of the autoimmune BB-rat in the study of diabetes mellitus heredity. In: Rygaard J et al. (eds). Immune-deficient Animals in Biomedical Research. Karger AG, Basel, NY, pp. 117-121, 1987.

6. Buschard K, Brogren CH, Ropke C, and Rygaard J. Antigen expression of the pancreatic beta-cell is dependent on their functional state, as shown by a specific, BB rat monoclonal autoantibody IC2. APMIS. 96(4), 342-6. 1988.
7. Scott FW, Cloutier HE, Souligny J, Riley WJ, Hoorfar J, and Brogren CH: Diet and antibody production in the diabetes-prone BB-rat. In: Larkin P et al. (eds.). Proceedings of the International IDF-Congress "immunology of Diabetes", Sydney, Nov 1988, alias Diabetes 1988, Elsevier Science Publ. B.V., pp.763-767, 1989.
8. Aaen K, Rygaard J, Josefson K, Petersen H, Brogren CH, Horn T, and Buschard K.: Dependence of antigen expression on functional state of beta-cells. Diabetes. 39 (4), 697-701. 1990.
9. Hoorfar J, Buschard K, and Brogren CH.: Impact of dietary protein and fat source on the development of insulin-dependent diabetes in the BB-rat. Diabetes Research 20 (1), 33-41. 1992.
10. Nielsen EM, Engberg J, Fussing V, Petersen L. Brogren CH, and On SLW: Evaluation of Phenotypic and Genotypic Methods for Subtyping of *Campylobacter jejuni* Isolates from Humans, Poultry and Cattle. Journal of Clinical Microbiology 38 (10), 3800-3811, 2000.
14. Onda M, Nakamura I, Suzuki S, Takenoshita S, Brogren CH, Stampanoni, Li D, and Rampino N.: Microsatellite Instability in Thyroid Cancer: Hot Spots, Clinicopathological Implications and Prognostic Significance. Clinical Cancer Research. 7 (11), 3444-3449, 2001.
15. Onda M, Li D, Suzuki S, Nakamura I, Takenoshita S, Brogren CH, Stampanoni S, and Rampino N. Expansion of Microsatellite in the Thyroid Hormone Receptor-alpha1 gene Linked to Increased Receptor Expression and Less Aggressive Thyroid Cancer. Clinical Cancer Research. 8 (9) 2870-2874, 2002.
16. Bernbom N, Licht TR, Brogren CH, Jelle B, Johansen AH, Badiola I, Vogensen FK, Nørreng B. Effects of *Lactococcus lactis* on composition of intestinal microbiota: Role of nisin. Appl. Environ. Microbiol. 72(1), s. 239-44, 2006
17. Saudek F, Brogren CH, Manohar S. Imaging the Beta-cell mass: why and how. Rev Diabet Stud. 5(1):6-12, 2008. Epub 2008 May 10
18. Bernbom N, Jelle B, Brogren CH, Vogensen FK, Nørreng B, Licht TR. Pediocin PA-1 and a pediocin producing *Lactobacillus plantarum* strain do not change the HMA rat microbiota. Int J Food Microbiol. 130(3):251-7, 2009
19. Kasisca V, and Brogren, CH: Interview - Editor Vaclav Kasicka and Carl-Henrik Brogren speak with Dr. Gabriel Peltre. J. Sep. Sci. 33, 286-89, 2010.
20. Brogren CH, Vismann P, Goa W, Desai M, and Buschard K. Biodistribution of the monoclonal autoantibody IC2 and its F(ab')2 and Fab fragments in mice and rat using 124-I and 125-I radioiodination with the Iodogen method. (manuscripts in preparation, preliminary presentation at the ADA 70th Scientific Session, Orlando, Florida, June 2010 (Webcast)
21. Brogren CH, Engkilde K, Sørensen JØ, Wismann P, Gao W, Desai M, Mia GKA, Buschard K, Eliasson L, Bonsart LL, Bachmann M, Contag CH, Renaut L, Mondon P. The pancreatic beta-cell specific monoclonal autoantibody IC2 applied to noninvasive bioluminescent imaging in mice for estimating of residual beta-cell mass. What is its target? 3rd International Pancreatic Islet Symposium, Brussels
22. Bronsart L, Bachmann MH, Stokes C, Schmidt TL, Cochran F, Brogren CH, Renaut L, Mondon P, Contag CH. Genetic Engineering of the IC2 Autoantibody for Molecular Imaging of the Pancreatic Beta-Cell Mass, World Molecular Imaging Congress, San Diego, September 2011. P629 26.
23. Brogren CH. The IC2 Autoantibody-based Noninvasive Imaging of Functional Beta-Cell Mass and the Molecular and Cellular Affinity and Specificity of the Biomarker IC2 Workshop: Imaging beta-cells – Programming Beta Cell Development, Impairment and Regeneration. October 2011, Elsinore, Denmark. Invited speaker and Imaging workshop chairman
24. Brogren C-H, Engkilde K, **Pedersen ID**, Jensen KL, Buschard K, Blaise M, Bronsart L, Bachmann MH, Contag CH, Renaut L, Carles MJ, Souyris N, Mondon P (2012). The pancreatic beta-cell surface specific monoclonal autoantibody IC2 for non-invasive beta-cell imaging and inhibition of the NKT immune regulatory function. Diabetes, 61 (S1), A679. The 72nd American Diabetes Association Scientific Sessions, June 8-12, 2012, Philadelphia, USA.
25. Brogren CH, **Pedersen ID**, Jensen KL, Briat A, Renaut L, Mondon P, Petersen W, Manohar S, Buschard K, Christiaen D (2012). Multimodality noninvasive imaging of the functional beta-cell mass using various formats of the betacell surface specific monoclonal autoantibody IC2. World Molecular Imaging Congress, September 5-8, 2012, Dublin, Ireland.
25. Brogren C-H, **Pedersen ID**, Jensen KL, Briat A, Petersen W, Manohar S, Bronsart L, Bachman MH, Renaut L, Mondon P, Hesse B, Kjær A, Buschard K, Christiaen D, Contag CH (2012). Multimodality noninvasive imaging of the functional beta-cell mass using various formats of the beta-cell surface specific monoclonal autoantibody IC2. Diabetologia, 55 (S1), S116. The 48nd European Association for the Study of Diabetes Annual Meeting, October 1-7, 2012, Berlin, Germany.
26. Sørensen JØ, Buschard K, **Brogren CH** (2013). The Role of Type-II NKT Cells in Type-1 Diabetes. APMIS, in press.
27. Desai MN, Mia GKA, Nalla A, Hesse B, Kjær A, Buschard K, and **Brogren CH**. Radioiodination of the monoclonal autoantibody IC2 – a biomarker for pancreatic beta-cells - its cellular affinity and biodistribution. (Manuscripts under revision for Nuclear Medicine and Biology)
28. Mia GKA, Desai MN, Nalla A, Prats C, Larsen JK, Mark Danley J, Spitalnik SL, Buschard K, and **Brogren CH**. IC2, a beta-cell specific BB-rat monoclonal autoantibody, binds to sulphated glycolipids. (Manuscripts under revision for Glycoconjugate Journal)