

Prof. Dr. Patrice D. Cani

Research associate from the FRS-FNRS

Group leader in the Metabolism and Nutrition research group (MNUT), UCL, Brussels, Belgium

Co-director of the European Associated Laboratory "NeuroMicrobiota" Lab (INSERM/UCL), Toulouse, France

Visiting Professor [Imperial College London](http://www.imperial.ac.uk)

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Belgian, Married, Two Children

Languages: French and Italian (native speaker), English (Fluent), Dutch (intermediate)

UCL, Université catholique de Louvain

Faculty of Pharmacy and Biomedical Sciences.

Louvain Drug Research Institute,

Metabolism and Nutrition research group (MNUT).

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http://www.researchgate.net/profile/Patrice_Cani/

<http://www.imperial.ac.uk/p.cani>

Twitter : [@MicrObesity](https://twitter.com/MicrObesity)

My main interests are the investigation of the role of the gut microbiota in the development of metabolic disorders, such as obesity, type 2 diabetes and low grade inflammation. More specifically, I am investigating the interactions between the gut microbiota, the host and specific biological systems such as the endocannabinoid system and the innate immune system in the context of obesity, type 2 diabetes and metabolic inflammation.

My Motto is "[In Gut We Trust](#)"

Track records

- **H-index: 42**, sum of times cited : >8000 (*Scopus*) (last update February 2015)
- **Google Scholar H-index: 51**, sum of times cited : >12000 (last update February 2015)
- **130 Peer-Reviewed publications** (<http://www.ncbi.nlm.nih.gov/pubmed/?term=cani+pd>)
- **Average citation per item: 61**

Academic appointments

Visiting Professor	(2010-present) Imperial College London, Section of Biomolecular Medicine, Department of Surgery and Cancer, U.K. (Head : Prof. Jeremy K. Nicholson)
Visiting Professor	(2013) Université Paul Sabatier, INSERM, I2MC, Toulouse, France (Head : Prof. Angelo Parini)
Professor	(2009-Present) Université catholique de Louvain (UCL), Faculty of Pharmacy and Biomedical Sciences, Brussels, Belgium
Research Associate	(2009-Present) Research Associate FRS-FNRS (Fonds de la recherche Scientifique, Belgium), UCL, LDRI, Brussels, Belgium
Visiting Professor	(2000 > Present) IPL (Leonard de Vinci), Brussels, Belgium

Academic degrees

Professor	(2009-Present) Université catholique de Louvain (UCL), Faculty of Medicine, Brussels, Belgium
Ph.D.	(2005) Biomedical Sciences (Metabolism and Nutrition), UCL, Brussels, Belgium.
M.Sc.	(2005) Health Sciences, UCL, Brussels, Belgium
M.Sc.	(2000) Biomedical Sciences (Human Nutrition), UCL, Brussels, Belgium.
B.Sc.	(1998) Dietetics, Paul Lambin Institute, UCL, Brussels, Belgium.

Scientific Awards/prizes

- 2015 Laureate of **InBev-Baillet Latour Grant for Medical Research 2015**
- 2015 Laureate of **FRFS-WELBIO** grant (Walloon Excellence in Lifesciences and BIOTEchnology)
- 2013 Laureate of an **ERC Starting Grant 2013**, ENIGMO
- 2013 Laureate of **WELBIO** starting grant (Walloon Excellence in Lifesciences and BIOTEchnology)
- 2012 Laureate for the SFD (Société Francophone du Diabète) prize, « foreigner researcher » 30 000 euros
- 2010 Danone Institute Human Nutrition Research program 12000 euros
- 2009 Laureate for the SFD (Société Francophone du Diabète) “Special Research Allocation” 25 000 euros
- 2007 Young Scientist FENS Award “Federation of the European Nutrition Society”

Five most important publications

1° Everard A, Geurts L, Caesar R, Van Hul M, Matamoros M, Duparc T, Denis RGP, Cochez P, Pierard P, Castel J, Bindels LB, Plovier H, Robine R, Muccioli GG, Renaud JC, Dumoutier L, Delzenne NM, Luquet S, Bäckhed F, **Cani PD**

[Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status](#)

Nature Communications, I.F.: 10.7, 2014, 5;5:5648

2° Geurts L, Everard A*, Van Hul M*, Essaghir A, Duparc T, Matamoros S, Plovier H, Castel J, Denis RGP, Bergiers M, Druart C, Alhouayek M, Delzenne NM, Muccioli GG, Demoulin JB, Luquet S, **Cani PD**.

Adipose tissue NAPE-PLD controls fat mass development by altering the browning process and gut microbiota

Nature Communications, I.F.: 10.7, 2015, in press

3° Everard A, Belzer C, Geurts L, Ouwerkerk JP, Druart C, Bindels LB, Guiot Y, Derrien M, Muccioli GG, Delzenne NM, de Vos WM, **Cani PD**.

[Cross-talk between Akkermansia muciniphila and intestinal epithelium controls diet-induced obesity.](#)

Proc Natl Acad Sci U S A, I.F.: 9.80, 2013, 110, 9066-71

4° Muccioli GG, Naslain D, Backhed F, Reigstad CS, Lambert DM, Delzenne NM, **Cani PD**.

[The endocannabinoid system links gut microbiota to adipogenesis.](#)

Mol Syst Biol I.F.: 14.09, 2010, 6, 392

5° Everard A, Lazarevic V, Gaïa N, Johansson M, Ståhlman M, Bäckhed F, Delzenne NM, Schrenzel J, François P, **Cani PD**.

[Microbiome of prebiotic-treated mice reveals novel targets involved in host response during obesity](#)

ISME J. I.F.: 9.26, 2014, 8, 2116-30

Memberships/Affiliation

- Funding member of the **BNS** (Belgian Nutrition Society) in 2008
- Member of the **New York Academy of Sciences** (NYAS)
- Member of the **SFD** (Société Francophone du Diabète)
- **Alumni from the ENLP** (European Nutrition Leadership Platform) in 2008, programme accessible upon strict **selection and providing European certification**
- Member of the **ADA** (American Diabetes Association)
- Invited member and Alumni of the Belgian Royal Academy of Sciences (**Académie Royale de Belgique**, Collège des Alumni, Classe des Sciences)

Patents

Delzenne NM, **Cani PD**, Frippiat A. Composition for prevention, inhibition and treatment of obesity and related diseases.

2005, PCT/EP2004/010907, WO 2005/036990

Neyrinck AM, Delzenne NM, **Cani PD**. Arabinoloxylans for modulating the barrier function of the intestinal surface 2010, PCT/EP2009/060669, WO 2010/020639

Cani PD, Everard A, de Vos W, Belzer C

Use of Akkermansia for treating metabolic disorders. PCT/EP2013/073972 WO2014076246 A1

Invited Speaker (since 2009)

Total number of invited conferences in

2014:	19 (international) / 5 (national)
2013:	14 (international) / 7 (national)
2012:	16 (international) / 5 (national)
2011:	17 (international) / 4 (national)
2010:	9 (international) / 5 (national)
2009:	13 (international) / 4 (national)

Selected list of international meetings:

Keystone Meeting Obesity and Diabetes 2014 (*Canada*), International Congress of Obesity, ICO 2014 (*Kuala Lumpur, Malaysia*), New York Academy of Sciences 2013 (*USA*), Keystone Meeting Innate Immunity and the Microbiome 2012 (*USA*), World Congress of Pediatric Gastroenterology, Hepatology and Nutrition 2012 (*Taiwan*), 3rd International Congress of Abdominal Obesity 2012 (*Canada*), International Liver Congress, EASL 2012 (*Spain*), International Cardio Event 2012 (*Italy*), International Congress of Endocrinology 2012 (*Italy*), European Nutrition Conference FENS 2011 (*Spain*), International Fiber congress 2011 (*Japan*), ISAAP 2009 (*USA*), NuGOWeek 2010 (*UK*), International congress of Natural Medicine 2010 (*Australia*), DNSG/EASD 2009 (*Germany*).

Teaching activities

- Nutrition et environnement [WSBIM2234] 22.5h 6 ECTS credits. Co-titular
- Molecular and cellular aspects of Nutrition [SBIM2181] 30h 4 ECTS credits. Titular
- Atelier informatique et de recherche bibliographique appliquée au médicament [WFARM1239] 15h 2 ECTS credits. Titular
- Régulation hypothalamique de la prise alimentaire [Paul Lambin Institute]
- NutriBrain School 2012, Bordeaux
- Chairman of jury of the thesis presentations: Institut Paul Lambin (Bachelor in dietetics) (2008-2014)

Academic appointments at UCL

2013- Present: Vice-president of the Louvain Drug Research Institute

2013-Present: President of the ethical committee of the faculty for animal research

2013-Present: Academic substitute of the UCL commission patent management

2010-2013: Member of the ethical committee of the faculty for animal research

2009-present: Member of the "bureau" Louvain Drug Research Institute

- 2009-present: Member of the commission, M.Sc. Biomedical Sciences (Nutrition)
- 2009-present: Representing member of the LDRI for the “animal facility commission” at the Health Science Sector
- 2011-2012: Representing member of the Health Science Sector at the “groupe de travail avenir des salles didactiques à l’UCL”.
- 2012-present Representing member of the LDRI and FASB faculty at the CSI (Informatic sectorial committee)

Others

- **Reviewer** for Nature, Nature Medicine, Cell Metabolism, Gut, Diabetes, Gastroenterology, Diabetologia, Nature Reviews, Science Translational, Medicine, PlosONE, Am. Journal Physiol, AJCN, J. Prot. Res., Int. J. Obesity, Obesity, Br J Nutr, Cell Metabolism, PNAS... (Max 4 accepted/month)
- **Reviewer or expert for international Agencies and grants** (e.g., France, Italy, Switzerland, The Netherlands, Denmark, UK, USA, ...); international agencies **ILSI Europe**, **ANR** (French National Agency for Research), **FRS-FNRS** (Fonds de la Recherche Scientifique), **AERES** (French agency for research and teaching evaluation).
- Member of the jury of PhD thesis outside Belgium (10 PhD thesis), inside Belgium (>20 PhD thesis).
- Several interviews and reportages on different media: Television (national: RTBF, RTL, TVcom, VRT) and international (France2, TV5, TVSuisse, ARTE), on the Radio (nationals and internationals).

Main international collaborators

- **Prof. J. Nicholson and E. Holmes**, Imperial College London, Dpt of Surgery and Cancer, London, **UK**
- **Prof. JA. Pospisilik**: Max Planck Institute of Immunobiology and Epigenetics, Freiburg, **Germany**
- **Prof. F. Backhed**: Sahlgrenska Center for Cardiovascular and Metabolic Research, Goteborg University, **Sweden**
- **Prof W. de Vos**: University of Helsinki, Finland, and Wageningen University, laboratory of Microbiology, **The Netherlands**
- **Prof. N. Dhurandhar**, PBRC, Baton Rouge, **USA**
- **Dr. Jeff Leach**, Human Food Project, **USA** <http://humanfoodproject.com/the-people/collaborators/>
- **Prof. R. Knight**, Boulder University, Colorado, **USA** http://americangut.org/?page_id=51
- **Profs C. Knauf and P. Valet**: INSERM, I2MC, Toulouse, **France**
- **Profs C. Magnan and S. Luquet**: CNRS, Paris Diderot University, Paris, **France**
- **Profs J Schrenzel, P. François and V. Lazarevic**: Genomic Research Lab, Geneva University, Genève, **Suisse**
- **Prof. D. Robertson**, Dpt of Nutrition and Metabolism, University of Surrey, **UK**
- **Prof. G. Frost**, Imperial College London, Dpt of Medicine, London, **UK**
- **Dr. MP. Mollica**, University Federico II, Naples, **Italy**

List of Publications

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Peer reviewed Articles as first or last author

2015

Geurts L, Everard A, Van Hul M, Essaghir A, Duparc T, Matamoros S, Plovier H, Castel J, Denis RGP, Bergiers M, Druart C, Alhouayek M, Delzenne NM, Muccioli GG, Demoulin JB, Luquet S, Cani PD.
Adipose tissue NAPE-PLD controls fat mass development by altering the browning process and gut microbiota
Nature Communications, I.F.: 10.7, 2015, in press

2014

Everard A, Geurts L, Caesar R, Van Hul M, Matamoros M, Duparc T, Denis RGP, Cochez P, Pierard P, Castel J, Bindels LB, Plovier H, Robine R, Muccioli GG, Renauld JC, Dumoutier L, Delzenne NM, Luquet S, Bäckhed F, Cani PD

Intestinal epithelial MyD88 is a sensor switching host metabolism towards obesity according to nutritional status.

Nature Communications, I.F.: 10.7, 2014, 5;5:5648

Everard A*, Lazarevic V*, Gaïa N, Johansson M, Ståhlman M, Backhed F, Delzenne NM, Schrenzel J, François P, Cani PD.

Microbiome of prebiotic treated mice reveals novel targets involved in host-response during obesity and diabetes

ISME J., I.F.: 9.27 2014 8, 2116-30

Everard A, Matamoros S, Geurts L, Delzenne NM, Cani PD.
Saccharomyces boulardii Administration Changes Gut Microbiota and Reduces Hepatic Steatosis,
Low-Grade Inflammation, and Fat Mass in Obese and Type 2 Diabetic db/db Mice.
MBio. 2014 I.F.: 6.87 Jun 10;5(3). pii: e01011-14. doi: 10.1128/mBio.01011-14

2013

Everard A, Belzer C, Geurts L, Ouwerkerk JP, Druart C, Bindels LB, Guiot Y, Derrien M, Muccioli GG,
Delzenne NM, de Vos WM, Cani PD.
Cross-talk between Akkermansia muciniphila and intestinal epithelium controls diet-induced
obesity.
Proc Natl Acad Sci U S A, I.F.: 9.80, 2013 110, 9066-71

Geurt L, Muccioli GG, Delzenne NM, Cani PD
Chronic endocannabinoid system stimulation induces muscle macrophage and lipid accumulation
in type 2 diabetic mice independently of metabolic endotoxaemia.
PLoS ONE I.F.: 3.53, 2013, 8:e55963

2012

Geurt L, Everard E, le Ruyet P, Delzenne NM, Cani PD
Ripened dairy products differentially affect hepatic lipid content and adipose tissue oxidative stress
markers in obese and type 2 diabetic mice
J Agr Food Chem, I.F.: 2.86, 2012, 60, 2063-2068

Everard A, Geurts L, Van Roye M, Delzenne NM, Cani PD
Tetrahydro iso-alpha acids from hops improve glucose homeostasis and reduce body weight gain
and metabolic endotoxemia in high-fat diet-fed mice
PLoS ONE I.F.: 4.53, 2012, 7, e33858

2011

Everard A, Lazarevic, Derrien M, Girard M, Muccioli GG, Neyrinck AM, Possemiers S, Van Holle A,
François P, de Vos WM, Delzenne NM, Schrenzel J, Cani PD
Responses of gut microbiota, glucose and lipid metabolism to prebiotics in genetic obese and diet-
induced leptin-resistant mice
Diabetes, I.F.: 8.89, 2011, 60, 2775-86

Cani PD, Delzenne NM
Benefits of bariatric surgery: an issue of microbial-host metabolism interactions?
Gut, 2011 I.F.: 10.6, 2011, 60, 1166-1167

Geurts L, Lazarevic V, Derrien M, Everard A, Van Roye M, Knauf C, Valet P, Girard M, Muccioli
GG, Francois P, de Vos WM, Schrenzel J, Delzenne NM and Cani PD
Altered gut microbiota and endocannabinoid system tone in obese and diabetic leptin-resistant
mice: impact on apelin regulation in adipose tissue
Frontiers in Microbiology, 2011, 2, 149

Duparc T, Naslain D, Colom A, Muccioli GG, Massaly N, Delzenne NM, Valet P, Cani PD*, Knauf C* (equally contributors).

Jejunum inflammation in obese and diabetic mice impairs enteric glucose detection and modifies nitric oxide release in the hypothalamus.

Antioxidant Redox Signalling, I.F.: 8.21, 2011, 14, 415-423

Dewulf EM*, Cani PD*, Neyrinck AM, Possemiers S, Van Holle A, Muccioli GG, Deldicque L, Bindels LB, Pachikian BD, Sohet FM, Mignolet E, Francaux M, Larondelle Y, Delzenne NM

Inulin-type fructans with prebiotic properties counteract GPR43 overexpression and PPAR α -related adipogenesis in the white adipose tissue of high-fat diet-fed mice.

Journal of Nutritional Biochemistry, I.F.: 4.5, 2011, 22, 712-22

2010

Muccioli GG, Naslain D, Backhed F, Reigstad C, Lambert DM, , Delzenne NM, Cani PD

The endocannabinoid system links gut microbiota to adipogenesis.

Molecular Systems Biology, I.F.: 12,2, 2010, 6:392

2009

Cani PD, Possemiers S, Van de Wiele T, Guiot Y, Everard A, Rottier O, Geurts L, Naslain D, Neyrinck A, Lambert DM, Muccioli GG, Delzenne NM

Changes in gut microbiota control inflammation in obese mice through a mechanism involving GLP-2-driven improvement of gut permeability

Gut, I.F.: 10,1, 2009, 58, 1091-1103

Cani PD, Lecourt E, Dewulf EM, Sohet FM, Pachikian BD, Naslain D, De Backer F, Neyrinck AM, Delzenne NM

Gut microbiota fermentation of prebiotics increases satietogenic and incretin gut peptide production with consequences on appetite sensation and glucose response after a meal.

The American Journal of Clinical Nutrition, I.F.: 6.74, 2009, 90, 1236-43

2008

Knauf C*, Cani PD*, Ait-Belgnaoui A, Benani A, Dray C, Cabou C, Uldry M, Rastrelli S, Sabatier E, Godet N, Waget A, Penicaud L, Valet P, Burcelin R

Brain Glucagon-Like Peptide 1 signaling controls the onset of high-fat diet-induced insulin resistance, and reduces energy expenditure

Endocrinology, I.F.: 5,04, 2008, 149, 4768-4777

Cani PD, Bibiloni R, Knauf C, Waget A, Neyrinck A, Delzenne NM, Burcelin R

Changes in gut microbiota control metabolic endotoxemia-induced inflammation in high-fat diet-induced obesity and diabetes in mice

Diabetes, I.F.: 8.3, 2008, 57, 1470-1481

2007

Cani PD, Neyrinck AM, Fava F, Knauf C, Burcelin G, Tuohy KM, Gibson GR, Delzenne NM
Selective increases of bifidobacteria in gut microflora improves high-fat diet-induced diabetes in mice through a mechanism associated with endotoxemia
Diabetologia, I.F.: 5,82, 2007, 50, 2374-2380

Urías-Silvas JE*, Cani PD*, Delmee E, Neyrinck AM, Lopez MG, Delzenne NM
Physiological effects of dietary fructans extracted from Agave tequilana Gto. and Dasyilirion spp.
British Journal of Nutrition, I.F.: 2,97, 2008, 99, 254-261

Cani PD, Hoste S, Guiot Y, Delzenne NM
Dietary non-digestible carbohydrates promote L-cell differentiation in the proximal colon of rats
British Journal of Nutrition, I.F.: 2,97, 2007, 98, 32-37

Cani PD, Holst JJ, Drucker DJ, Delzenne NM, Thorens B, Burcelin R, Knauf C
GLUT2 and the incretin receptors are required for the oral glucose-induced incretin secretion
Molecular and Cellular Endocrinology, I.F.: 2,97, 2007, 276, 18-23

Cani PD, Amar J, Iglesias MA, Poggi M, Knauf C, Bastelica D, Neyrinck AM, Fava F, Tuohy KM, Chabo C, Waget A, Delmée E, Cousin B, Sulpice T, Chamontin B, Ferrières J, Tanti JF, Gibson GR, Casteilla L, Delzenne NM, Alessi MC, Burcelin R
Metabolic endotoxemia initiates obesity and insulin resistance
Diabetes, I.F.: 8,3, 2007, 56, 1761-1772

2006

Cani PD, Knauf C, Iglesias MA, Drucker DJ, Delzenne NM and Burcelin R
Improvement of glucose tolerance and hepatic insulin sensitivity by oligofructose requires a functional GLP-1 receptor
Diabetes, I.F.: 8,3, 2006, 55, 1484-1490

Cani PD, Joly E, Horsmans Y and Delzenne NM
Oligofructose promotes satiety in healthy human : a pilot study.
European Journal of Clinical Nutrition, I.F.: 2,16, 2006, 60, 567-572

Delmée E*, Cani PD*, Gual G, Knauf C, Burcelin R, Maton N and Delzenne NM
Relation between colonic proglucagon expression and metabolic response to oligofructose in high fat diet-fed mice
Life Sciences, I.F.: 2,51, 2006, 79, 1007-1013

2005

Cani PD, Neyrinck AM, Maton N and Delzenne NM
Oligofructose promotes satiety in rats fed a high-fat diet : involvement of Glucagon-like peptide-1.
Obesity Research, I.F.: 3,70, 2005, 13, 1000-1007

Cani PD, Daubioul CA, Reusens B, Remacle C, Catillon G and Delzenne NM
Involvement of endogenous glucagon-like peptide-1(7-36) amide on glycaemia-lowering effect of oligofructose in streptozotocin-treated rats.
Journal of Endocrinology, I.F.: 3,32, 2005, 185, 457-465

2004

Cani PD, Lasa-Montoya M, Neyrinck AM, Delzenne NM and Lambert DM
Potential modulation of plasma ghrelin and glucagon-like peptide-1 by anorexigenic cannabinoid compounds, SR141716A (Rimonabant) and oleoylethanolamide.
British Journal of Nutrition, I.F.: 2,70, 2004, 92, 757-761

Cani PD, Dewever C and Delzenne NM
Inulin-type fructans modulate gastro-intestinal peptides involved in appetite regulation -Glucagon-Like Peptide-1 and Ghrelin- in rats.
British Journal of Nutrition, I.F.: 2,70, 2004, 92, 521-526

Peer reviewed Articles as co-author

2014

Leclercq S, Matamoros S, Cani PD, Neyrinck AM, Jamar F, Stärkel P, Windey K, Tremaroli V, Bäckhed F, Verbeke K, de Timary P, Delzenne NM.
Intestinal permeability, gut-bacterial dysbiosis, and behavioral markers of alcohol-dependence severity.
Proc Natl Acad Sci U S A. I.F.:9.80, 2014, 111:E4485-93

Drougard A, Duparc T, Brenachot X, Carneiro L, Gouazé A, Fournel A, Geurts L, Cadoudal T, Prats AC, Pénicaud L, Vieau D, Lesage J, Leloup C, Benani A, Cani PD, Valet P, Knauf C.
Hypothalamic Apelin/Reactive Oxygen Species Signaling Controls Hepatic Glucose Metabolism in the Onset of Diabetes.
Antioxid Redox Signal. I.F.:7.19, 2014, 20:557-73

Salazar N, Dewulf EM, Neyrinck AM, Bindels LB, Cani PD, Mahillon J, de Vos WM, Thissen JP, Gueimonde M, de Los Reyes-Gavilán CG, Delzenne NM.
Inulin-type fructans modulate intestinal Bifidobacterium species populations and decrease fecal short-chain fatty acids in obese women.
Clin Nutr. 2014 I.F.:3,29, 2014, S0261-5614(14)00159-9

Alhouayek M, Bottemanne P, Subramanian KV, Lambert DM, Makriyannis A, Cani PD, Muccioli GG.
N-Acylethanolamine-hydrolyzing acid amidase inhibition increases colon N-palmitoylethanolamine levels and counteracts murine colitis.
FASEB J. I.F.: 2014, 5.48, Nov 10. pii: fj.14-255208

Kong LC, Holmes BA, Cotillard A, Habi-Rachedi F, Brazeilles R, Gougis S, Gausserès N, Cani PD, Fellahi S, Bastard JP, Kennedy SP, Doré J, Ehrlich SD, Zucker JD, Rizkalla SW, Clément K.
Dietary patterns differently associate with inflammation and gut microbiota in overweight and obese subjects.
PLoS One. I.F.: 3.53, 2014, 9:e109434

Vanacker J, Viswanath A, De Berdt P, Everard A, Cani PD, Bouzin C, Feron O, Diogenes A, Leprince JG, des Rieux A.
Hypoxia modulates the differentiation potential of stem cells of the apical papilla.
J Endod. I.F.: 2.78, 2014, 40:1410-8

Druart C, Neyrinck AM, Vlaeminck B, Fievez V, Cani PD, Delzenne NM.
Role of the Lower and Upper Intestine in the Production and Absorption of Gut Microbiota-Derived PUFA Metabolites.
PLoS One. I.F.:3.7, 2014, 9:e87560

Alligier M, Dewulf EM, Salazar N, Mairal A, Neyrinck AM, Cani PD, Langin D, Delzenne NM.
Positive interaction between prebiotic nutrients and thiazolidinedione treatment on adiposity in diet-induced obese mice.
Obesity (Silver Spring). I.F.:3.92, 2014 Mar 2. doi: 10.1002/oby.20733. [Epub ahead of print]

Druart C, Dewulf EM, Cani PD, Neyrinck AM, Thissen JP, Delzenne NM.
Gut Microbial Metabolites of Polyunsaturated Fatty Acids Correlate with Specific Fecal Bacteria and Serum Markers of Metabolic Syndrome in Obese Women.
Lipids, I.F.: 2.56, 2014 Jan 29. [Epub ahead of print]

2013

Wichmann A, Allahyar A, Greiner TU, Plovier H, Lundén GÖ, Larsson T, Drucker DJ, Delzenne NM, Cani PD, Bäckhed F.
Microbial modulation of energy availability in the colon regulates intestinal transit.
Cell Host Microbe. I.F.: 12.6, 2013, 14:582-90

Alhouayek M, Masquelier J, Cani PD, Lambert DM, Muccioli GG.
Implication of the anti-inflammatory bioactive lipid prostaglandin D2-glycerol ester in the control of macrophage activation and inflammation by ABHD6.
Proc Natl Acad Sci U S A, I.F.: 9.68, 2013 110, 17558-63

Lebrun V, Molendi-Coste O, Lanthier N, Sempoux C, Cani PD, van Rooijen N, Stärkel P, Horsmans Y, Leclercq IA.
Impact of PPAR- α induction on glucose homeostasis in alcohol-fed mice.
Clin Sci (Lond). I.F. :4.86, 2013 125, 501-11

Pierre N, Deldicque L, Barbé C, Naslain D, Cani PD, Francaux M.
Toll-like receptor 4 knockout mice are protected against endoplasmic reticulum stress induced by a high-fat diet.
PLoS One, I.F.: 3.4. 2013, 8:e65061

Osto M, Abegg K, Bueter M, le Roux CW, Cani PD, Lutz TA.
Roux-en-Y gastric bypass surgery in rats alters gut microbiota profile along the intestine.
Physiol Behav. I.F.: 3,16, 2013, 119, 92-6

Druart C, Neyrinck AM, Dewulf EM, De Backer FC, Possemiers S, Van de Wiele T, Moens F, De Vuyst L, Cani PD, Larondelle Y, Delzenne NM.
Implication of fermentable carbohydrates targeting the gut microbiota on conjugated linoleic acid production in high-fat-fed mice.
Br J Nutr, I.F.: 3.07, 2013, 110, 9998-1011

Dewulf EM, Ge Q, Bindels LB, Sohet FM, Cani PD, Brichard SM, Delzenne NM.
Evaluation of the relationship between GPR43 and adiposity in human.
Nutr Metab (Lond). I.F.: 2.89, 2013, 10:11

Vincent M, Philippe E, Everard A, Kassis N, Rouch C, Denom J, Takeda Y, Uchiyama S, Delzenne NM, Cani PD, Migrenne S, Magnan C.
Dietary Supplementation With *Agaricus Blazei* Murill Extract Prevents Diet-Induced Obesity and Insulin Resistance in Rats.
Obesity (Silver Spring), I.F.: 4.28, 2013, 21, 553-61

Pachikian BD, Essaghir A, Demoulin JB, Catry E, Neyrinck AM, Dewulf EM, Sohet FM, Portois L, Clerbaux LA, Carpentier YA, Possemiers S, Bommer GT, Cani PD, Delzenne NM.
Prebiotic approach alleviates hepatic steatosis: Implication of fatty acid oxidative and cholesterol synthesis pathways.
Mol Nutr Food Res. I.F.: 4.3, 2013, 57, 347-59

Deldicque L, Cani PD, Delzenne NM, Baar K, Francaux M.
Endurance training in mice increases the unfolded protein response induced by a high-fat diet.
J Physiol Biochem I.F.: 1.86, 2013, 69, 215-25

Dewulf EM, Cani PD, Claus SP, Fuentes S, Puylaert PG, Neyrinck AM, Bindels LB, de Vos WM, Gibson GR, Thissen JP, Delzenne NM.
Insight into the prebiotic concept: lessons from an exploratory, double blind intervention study with inulin-type fructans in obese women.
Gut. I.F.: 10.1, 2013, 62, 1112-21

Neyrinck AM, Van Hée VF, Bindels LB, De Backer F, Cani PD, Delzenne NM.
Polyphenol-rich extract of pomegranate peel alleviates tissue inflammation and hypercholesterolaemia in high-fat diet-induced obese mice: potential implication of the gut microbiota.
Br J Nutr, I.F.: 3.1, 2013, 14, 802-9

2012

Teperino R, Amann S, Bayer M, McGee SL, Loipetzberger A, Connor T, Jaeger C, Kammerer B, Winter L, Wiche G, Dalgaard K, Selvaraj M, Gaster M, Lee-Young RS, Febbraio MA, Knauf C, Cani PD, Aberger F, Penninger JM, Pospisilik JA, Esterbauer H.
Hedgehog Partial Agonism Drives Warburg-like Metabolism in Muscle and Brown Fat.
Cell. I.F.: 32.4, 2012, 151, 414-26

Jordan BF, Magat J, Colliez F, Ozel E, Fruytier AC, Marchand V, Mignon L, Bouzin C, Cani PD, Vandeputte C, Feron O, Delzenne N, Himmelreich U, Denolin V, Duprez T, Gallez B.

Mapping of oxygen by imaging lipids relaxation enhancement: A potential sensitive endogenous MRI contrast to map variations in tissue oxygenation.

Magn Reson Med, I.F.: 2.86, 2012, doi: 10.1002/mrm.24511. [Epub ahead of print]

Joly-Amado A, Denis RG, Castel J, Lacombe A, Cansell C, Rouch C, Kassis N, Dairou J, Cani PD, Ventura-Clapier R, Prola A, Flamment M, Foufelle F, Magnan C, Luquet S.

Hypothalamic AgRP-neurons control peripheral substrate utilization and nutrient partitioning.

EMBO J, I.F.: 9.2, 2012, 31, 4276-88

Bindels LB, Porporato P, Dewulf EM, Verrax J, Neyrinck AM, Martin JC, Scott KP, Buc Calderon P, Feron O, Muccioli GG, Sonveaux P, Cani PD, Delzenne NM.

Gut microbiota-derived propionate reduces cancer cell proliferation in the liver.

Br J Cancer, I.F.: 5.04, 2012, 107, 1337-44

de Timary P, Cani PD, Duchemin J, Neyrinck AM, Gihousse D, Laterre PF, Badaoui A, Leclercq S, Delzenne NM, Stärkel P.

The loss of metabolic control on alcohol drinking in heavy drinking alcohol-dependent subjects.

PLoS One, I.F.: 4.03, 2012, 7, e38682

Bindels LB, Beck R, Schakman O, Martin JC, De Backer F, Sohet FM, Dewulf EM, Pachikian BD, Neyrinck AM, Thissen JP, Verrax J, Calderon PB, Pot B, Grangette C, Cani PD, Scott KP, Delzenne NM.

Restoring specific lactobacilli levels decreases inflammation and muscle atrophy markers in an acute leukemia mouse model.

PLoS One, I.F.: 4.03, 2012, 7, e37971

Caesar R, Reigstad CS, Bäckhed HK, Reinhardt C, Ketonen M, Ostergren Lundén G, Cani PD, Bäckhed F.

Gut-derived lipopolysaccharide augments adipose macrophage accumulation but is not essential for impaired glucose or insulin tolerance in mice.

Gut, I.F.: 10.1, 2012, 61, 1701-7

Leclercq S, Cani PD, Neyrinck AM, Stärkel P, Jamar F, Mikolajczak M, Delzenne NM, de Timary P.

Role of intestinal permeability and inflammation in the biological and behavioral control of alcohol-dependent subjects.

Brain Behav Immun, I.F.: 4.72, 2012, 26, 911-8

2011

Duparc T, Colom A, Cani PD, Massaly N, Rastrelli S, Drougard A, Le Gonidec S, Moulédous L, Frances B, Leclercq I, Llorens-Cortes C, Pospisilik JA, Delzenne NM, Valet P, Castan-Laurell I, Knauf C.

Central Apelin Controls Glucose Homeostasis via a Nitric Oxide-Dependent Pathway in Mice.

Antioxid Redox Signal, I.F.: 8.2, 2011, 15, 1477-1496

Lanthier, N., Molendi-Coste, O., Cani, P. D., van Rooijen, N., Horsmans, Y., Leclercq, I. A. Kupffer cell depletion prevents but has no therapeutic effect on metabolic and inflammatory changes induced by a high-fat diet.

FASEB J. I.F.: 6.7, 2011, 25, 25, 4301-11

Alhouayek M, Lambert DM, Delzenne NM, Cani PD, Muccioli GG.

Increasing endogenous 2-arachidonoylglycerol levels counteracts colitis and related systemic inflammation.

FASEB J. I.F.: 6.7, 2011, 25, 2711-2721

Claret M, Smith MA, Knauf C, Woods A, Al-Qassab H, Heslegrave A, Piipari K, Colom A, Valet P, Cani PD, Batterham RL, Ashworth A, Ashford MLJ, Burcelin R, Carling D, Withers DJ

Deletion of LKB1 in POMC neurons impairs glucose homeostasis in mice.

Diabetes, I.F.: 8.9, 2011, 60, 735-745

Neyrinck AM, Possemiers S, Druart C, Van de Wiele T, De Backer F, Cani PD, Larondelle Y, Delzenne NM.

Prebiotic effects of wheat arabinoxylan related to the increase in bifidobacteria, roseburia and bacteroides/prevotella in diet-induced obese mice.

PLoS One, I.F.: 4.53, 2011, 6, e20944

Pachikian BD, Neyrinck AM, Portois L, De Backer FC, Sohet FM, Hacquebard M, Carpentier YA, Cani PD, Delzenne NM.

Involvement of gut microbial fermentation in the metabolic alterations occurring in n-3 polyunsaturated fatty acids-depleted mice.

Nutr Metab (Lond), I.F.:2.3, 2011, 7, 44

Pachikian BD, Essaghir A, Demoulin JB, Neyrinck AM, Catry E, De Backer FC, Dejeans N, Dewulf EM, Sohet FM, Portois L, Deldicque L, Molendi-Coste O, Leclercq IA, Francaux M, Carpentier YA, Fougelle F, Muccioli GG, Cani PD, Delzenne NM.

Hepatic n-3 polyunsaturated fatty acid depletion promotes steatosis and insulin resistance in mice: genomic analysis of cellular targets.

PLoS One, I.F.:5. 2011, 53, 6:e23365

Luoto R, Kalliomäki M, Laitinen K, Delzenne NM, Cani PD, Salminen S, Isolauri E.

Initial Dietary and Microbiological Environments Deviate in Normal-weight Compared to Overweight Children at 10 Years of Age.

Journal of Pediatric Gastroenterology and Nutrition, I.F.: 2,18, 2011, 52:90-5

2010

Pospisilik JA, Schramek D, Schnidar H, Cronin SJ, Nehme NT, Zhang X, Knauf C, Cani PD, Aumayr K, Todoric J, Bayer M, Haschemi A, Puvion-Vandier V, Tar K, Orthofer M, Neely GG, Dietzl G, Manoukian A, Funovics M, Prager G, Wagner O, Ferrandon D, Aberger F, Hui CC, Esterbauer H, Penninger JM.

Drosophila genome-wide obesity screen reveals hedgehog as a determinant of brown versus white adipose cell fate.

Cell, I.F.: 31.25, 2010, 140:148-60

Deldicque L, Cani PD, Philp A, Raymackers JM, Meakin PJ, Ashford ML, Delzenne NM, Francaux M, Baar K.

The unfolded protein response is activated in skeletal muscle by high-fat feeding: potential role in the downregulation of protein synthesis.

American Journal of Physiology Endocrinology and Metabolism, IF: 4.39, 2010, 299:E695-705

Pachikian BD, Neyrinck AM, Deldicque L, De Backer FC, Catry E, Dewulf EM, Sohet FM, Bindels LB, Everard A, Francaux M, Guiot Y, Cani PD, Delzenne NM.

Changes in Intestinal Bifidobacteria Levels Are Associated with the Inflammatory Response in Magnesium-Deficient Mice.

J Nutr, IF: 3.65, 2009, 140: 509-514

Delzenne N and Cani PD

Nutritional modulation of gut microbiota in the context of obesity and insulin resistance : potential interest of prebiotics.

International Dairy Journal, IF: 2.42, 2010, 20, 277-280

Lanthier N, Molendi-Coste O, Horsmans Y, van Rooijen N, Cani PD, Leclercq IA.

Kupffer cell activation is a causal factor for hepatic insulin resistance.

American Journal of Physiology Gastrointestinal Liver Physiology, IF: 3.26, 2010, 298:G107-G116

2009

Deveaux V, Cadoudal T, Ichigotani Y, Teixeira-Clerc F, Louvet A, Manin S, Tran-Van Nhieu J, Belot MP, Zimmer A, Even P, Cani PD, Knauf C, Burcelin R, Bertola A, Le Marchand-Brustel Y, Gual P, Mallat A, Lotersztajn S

Cannabinoid CB2 receptor potentiates obesity-associated inflammation, insulin resistance and hepatic steatosis

PlosONE, I.F.: 4.53, 2009, 4, e5844

Sulpice T, Prunet-Marcassus B, Molveaux C, Cani PD, Vitte PA, Graber P, Dreano M, Burcelin R
An adiponection-like molecule with antidiabetic properties

Endocrinology, IF.: 4.95, 2009, 150, 4493-501

Sohet FM, Neyrinck AM, Pachikian BD, De Backer F, Bindels LB, Niklowitz P, Menke T, Cani PD and Delzenne NM

Coenzyme Q10 supplementation lowers hepatic oxidative stress and inflammation associated with diet-induced obesity in mice

Biochemical Pharmacology, IF.: 4.8, 2009, 78, 1391-400

Neyrinck AM, Cani PD, Dewulf EM, De Backer F, Bindels L, Delzenne NM

Critical role of Kupffer cells in the management of diet-induced diabetes and obesity

Biochemical and Biophysical Research Communications, F.I.: 2,7490, 2009, 385, 351-356

Neyrinck AM, Bindels LB, De Backer F, Pachikian BD, Cani PD, Delzenne NM

Dietary supplementation with chitosan derived from mushrooms changes adipocytokine profile in diet-induced obese mice, a phenomenon linked to its lipid-lowering action.

International immunopharmacology, I.F.: 2.2, 2009, 9, 767-773

Sohet F, Neyrinck AM, Dewulf EM, Bindels LB, Portois L, Malaisse WJ, Carpentier YA, Cani PD, Delzenne NM

Lipid peroxidation is not a prerequisite for the development of obesity and diabetes in high-fat-fed mice.

British Journal of Nutrition, I.F.: 2,70, 2009, 102, 462-9

2008

Dray C, Knauf C, Daviaud D, Buléon M, Boucher J, Cani PD, Waget A, Guigné c, Carpené C, Burcelin R, Isabelle Castan-Laurell I, Valet P

Apelin stimulates glucose utilization in normal and obese insulin-resistant mice

Cell Metabolism, I.F.: 17,1, 2008, 8, 437-445

Pachikian BD, Neyrinck AM, Cani PD, Portois L, Deldicque L, De Backer FC, Bindels LB, Sohét FM, Malaisse WJ, Francaux M, Carpentier YA, Delzenne NM

Hepatic steatosis in n-3 fatty acid depleted mice: focus on metabolic alterations related to tissue fatty acid composition.

BMC Physiology, I.F.: 2,2, 2008, 1, 8-21

Neyrinck AM, De Backer F, Cani PD, Bindels LB, Stroobants A, Portetelle D, Delzenne NM

Immunomodulatory properties of two wheat bran fractions – aleurone-enriched and crude fractions – in obese mice fed a high fat diet

International immunopharmacology, I.F.: 2.2, 2008, 8, 1423-1432

Knauf C, Cani PD, Kim DH Iglesias MA, Chabo C, A, Delzenne NM, Drucker DJ, Seeley RJ, Burcelin R

The role of CNS GLP-1 receptors in enteric glucose sensing

Diabetes, I.F.: 8,3, 2008, 57, 2603-2612

Amar J, Burcelin R, Ruidavets JB, Cani PD, Fauvel J, Alessi MC, Chamontin B, Ferrières J

Energy intake is associated with endotoxemia in apparently healthy men

American Journal of Clinical Nutrition, I.F.: 6,56, 2008, 5, 1219-1223

Membrez M, Blancher F, Jaquet M, Bibiloni R, Cani PD, Burcelin R, Corthesy I, Macé K, Chou CJ

Gut microbiota modulation with norfloxacin and ampicillin enhances glucose tolerance in mice

The FASEB Journal, I.F.: 6,72, 2008, 22, 2416-2426

2007

Pospisilik JA, Knauf C, Joza N, Benit P, Orthofer M, Cani PD, Ebersberger I, Nakashima T, Sarao R, Rangachari M, Neely G, Kahn RC, Kroemer C, Rustin P, Burcelin R and Penninger JM

Targeted deletion of AIF decreases mitochondrial oxidative phosphorylation and protects from obesity and diabetes

Cell, I.F.: 29,89, 2007, 131, 476-491

Kallin A, Johannessen LE, Cani PD, Marbehant CY, Essaghiri A, Fougelle F, Ferre P, Heldin CH, Delzenne NM, Demoulin JB

SREBP-1 regulates the expression of heme oxygenase 1 and the phosphatidylinositol-3 kinase regulatory subunit p55y

Journal of Lipid Research, I.F.: 4,3600, 2007, 48, 1628-1636

Cabou C, Cani PD, Campistron G, Knauf C, Mathieu C, Sartori C, Amar J, Scherrer U, Burcelin R
Central insulin regulates heart rate and arterial blood flow: an endothelial nitric oxide
synthase-dependent mechanism altered during diabetes
Diabetes, I.F.: 8,3, 2007, 56, 2872-2977

Marques C, D'Auria L, Cani PD, Bacceli C, Rozenberg R, Ruibal-Mendieta NL, Petitjean G, Delacroix
D, Quetin-Leclerq J, Habib-Jiwan JL, Meurens M, Delzenne NM
Comparison of glycemic index of spelt and wheat bread in human volunteers
Food Chemistry, I.F.: 3,05, 2007, 100, 1265-1271

Beltrand J, Colomb V, Marinier E, Daubrosse C, Alison M, Burcelin R, Cani PD, Chevenne D and Lévy
Marchal C
Lower insulin secretory response to glucose induced by artificial nutrition in children: prolonged
and total parenteral nutrition
Pediatric Research, I.F.: 2,62, 2007, 62, 624-629

2006

Knauf C, Rieusset J, Forest M, Cani PD, Uldry M, Hosokawa M, Martinez E, Bringart M, Waget A,
Kersten S, Desvergne B, Gremlich S, Wahli W, Seydoux J, Delzenne NM, Thorens B and Burcelin R
PPAR Alpha null mice have increased white adipose tissue glucose utilization, GLUT4, and fat mass.
Role in liver and brain
Endocrinology, I.F.: 5,24, 2006, 147, 4067-4078

Lesniewska V, Rowland I, Cani PD, Neyrinck AM, Delzenne NM, and Naughton PJ
Survival of *Lactobacillus delbrueckii* and *Bifidobacterium Lactis* in adult and elderly rats with
comcomitant changes in neuropeptide levels.
Applied and Environmental Microbiology, I.F.: 3,82, 2006, 72, 6533-6538

Andreelli F, Foretz M, Knauf C, Cani PD, Perrin C, Iglesias MA, Pillot B, Bado A, Tronche F, Mithieux
G, Vaulont S, Burcelin R, Viollet B
The liver AMPK 2 catalytic subunit is a key target for the control of hepatic glucose production by
adiponectin and leptin but not by insulin
Endocrinology, I.F.: 5,24, 2006, 147, 2432-2441

Simmgen M, Knauf C, Lopez M, Choudhury AI, Charalambous M, Cantley J, Bedford DC, Claret M,
Iglesias MA, Heffron H, Cani PD, Vidal-Puig A, Burcelin R, Withers DJ
Liver-specific deletion of insulin receptor substrate 2 does not impair hepatic glucose and lipid
metabolism in mice
Diabetologia, I.F.: 5,6, 2006, 49, 552-561

2005

Knauf C, Cani PD, Perrin C, Iglesias MA, Maury JF, Bernard E, Benhamed F, Grémeaux T, Drucker DJ,
Kahn R, Girard J, Tanti JF, Delzenne NM, Postic C and Burcelin R
Brain Glucagon-Like Peptide-One increases insulin secretion and muscle insulin resistance to favour
hepatic glycogen storage.
The Journal of Clinical Investigation, I.F.: 15,05, 2005, USA, 115, 3554-3563

Delzenne NM, Cani PD, Daubioul C and Neyrinck AM
Impact of inulin and oligofructose on gastrointestinal peptides.
British Journal of Nutrition, I.F.: 2,7, 2005, 93, S157-S161

2003

Rozenberg R, Ruibal-Mendieta N, Petitjean G, Cani PD, Delacroix DL, Delzenne NM, Meurens M, Quetin-Leclercq J and Habib-Jiwan JL
Phytosterol analysis and characterization in spelt(Triticum aestivum ssp. spelta L.) and wheat (T.aestivum L.) lipids by LC/APCI-MS.
Journal of Cereal Science, I.F.: 2,17, 2003, 38,189-197

Reviews

Cani PD.

Metabolism in 2013: The gut microbiota manages host metabolism.

Nat Rev Endocrinol., I.F.: 11.02, 2014, 10:74-6

Cani PD, Van Hul M.

Novel opportunities for next-generation probiotics targeting metabolic syndrome.

Curr Opin Biotechnol. I.F.: 8.03, 2014, 32C:21-27.

Genton L, Cani PD, Schrenzel J.

Alterations of gut barrier and gut microbiota in food restriction, food deprivation and protein-energy wasting.

Clin Nutr. I.F.: 3.94, 2014, pii: S0261-5614(14)00255-6

Everard A, Cani PD.

Gut microbiota and GLP-1.

Rev Endocr Metab Disord., I.F.: 4.8, 2014, 15:189-96.

Cani PD, Geurts L, Matamoros S, Plovier H, Duparc T.

Glucose metabolism: Focus on gut microbiota, the endocannabinoid system and beyond.

Diabetes Metab., I.F.: 2.7, 2014 Mar 13. doi: 10.1016/j.diabet.2014.02.004. [Epub ahead of print]

Cani PD, Everard A.

[*Akkermansia muciniphila*: a novel target controlling obesity, type 2 diabetes and inflammation?].

Med Sci (Paris). 2014, 30:125-7.

Cani PD, Everard A, Duparc T.

Gut microbiota, enteroendocrine functions and metabolism.

Curr Opin Pharmacol., I.F.:5.44, 2013, 13:935-40

Petschow B, Doré J, Hibberd P, Dinan T, Reid G, Blaser M, Cani PD, Degnan FH, Foster J, Gibson G, Hutton J, Klaenhammer TR, Ley R, Nieuwdorp M, Pot B, Relman D, Serazin A, Sanders ME.

Probiotics, prebiotics, and the host microbiome: the science of translation.

Ann N Y Acad Sci. I.F.: 4.36 2013, 1306:1-17.

Dhurandhar NV, Geurts L, Atkinson RL, Casteilla L, Clement K, Gerard P, Vijay-Kumar M, Nam JH, Nieuwdorp M, Trovato G, Sørensen TI, Vidal-Puig A, Cani PD.
Harnessing the beneficial properties of adipogenic microbes for improving human health.
Obes Rev, I.F.: 7, 2013 May 12. doi: 10.1111/obr.12045. [Epub ahead of print]

Geurts L, Neyrinck AM, Delzenne NM, Knauf C, Cani PD.
Gut microbiota controls adipose tissue expansion, gut barrier and glucose metabolism: novel insights into molecular targets and interventions using prebiotics.
Benef Microbes. I.F.: 1.4, 2013, 25, 1-15. [Epub ahead of print]

Everard A, Cani PD.
Diabetes, obesity and gut microbiota.
Best Pract Res Clin Gastroenterol. I.F.: 2013 Feb;27, 73-83.

Cani PD
Gut microbiota and obesity: lessons from the microbiome.
Brief Funct Genomics, I.F. : 4.12, 2013 Apr 24. [Epub ahead of print]

Delzenne NM, Neyrinck AM, Cani PD.
Gut microbiota and metabolic disorders: How prebiotic can work?
Br J Nutr, I.F.: 3.0, 2013, 109 Suppl 2:S81-5

Cani PD.
Crosstalk between the gut microbiota and the endocannabinoid system: impact on the gut barrier function and the adipose tissue.
Clin Microbiol Infect, I.F.: 4.7, 2012, 18, 50-3

Cani PD, Osto M, Geurts L, Everard A.
Involvement of gut microbiota in the development of low-grade inflammation and type 2 diabetes associated with obesity.
Gut Microbes, 2012, 3, 279-88

Delzenne NM, Neyrinck A, Backhed F, Cani PD
Targeting gut microbiota in obesity: effects of prebiotics and probiotics.
Nature Reviews Endocrinology, I.F.: 9.21, 2011, 7, 639-646

Delzenne NM, Neyrinck AM, Cani PD.
Modulation of the gut microbiota by nutrients with prebiotic properties: consequences for host health in the context of obesity and metabolic syndrome.
Microbial Cell Factories, I.F.: 4.54, 2011, 30;10 Suppl 1:S10

Delzenne NM, Cani PD,
Gut microbiota and the pathogenesis of insulin resistance.
Curr Diab Rep, I.F.: 2.1, 2011, 11, 154-9

Cani PD, Delzenne NM
The gut microbiome as therapeutic targets
Pharmacology & Therapeutics, I.F.: 8.89, 2011, 130, 202-212

Delzenne NM, Cani PD

Interaction between obesity and the gut microbiota: relevance in nutrition

Annual Reviews in Nutrition, I.F.: 8.78, 2011, 31, 15-31

Roberfroid M, Gibson GR, Hoyles L, McCartney AL, Rastall R, Rowland I, Wolvers D, Watzl B, Szajewska H, Stahl B, Guarner F, Respondek F, Whelan K, Coxam V, Davicco MJ, Léotoing L, Wittrant Y, Delzenne NM, Cani PD, Neyrinck AM, Meheust A.

Prebiotic effects: metabolic and health benefits.

British Journal of Nutrition, I.F.: 3,4, 2010 104:S1-63.

Cani PD, Delzenne NM

Involvement of the gut microbiota in the development of low grade inflammation associated with obesity: focus on this neglected partner.

Acta Gastroenterologica Belgica, I.F.: 1,01 2010 73:267-9

Cani PD, Delzenne NM

Interplay between obesity and associated metabolic disorders: new insights into the gut microbiota

Current Opinion in Pharmacology, I.F.: 6,8, 2009, 6, 737-43.

Cani PD, Delzenne NM

The role of the gut microbiota in energy metabolism and metabolic disease

Current Pharmaceutical Design, I.F.: 4,87, 2009, 15, 1546-1558

Cani PD, Delzenne NM, Amar J, Burcelin R

Role of gut microflora in the development of obesity and insulin resistance following high-fat diet feeding.

Pathologie Biologie (Paris), I.F.: 0,95, 2008, 56, 305-309

Cani PD, Delzenne NM

Gut microflora as a target for energy and metabolic homeostasis

Current Opinion in Clinical Nutrition and Metabolic Care, I.F.: 3,67, 2007, 10, 729-734

Cani PD, Knauf C, Burcelin R

Les analogues du GLP-1, le point sur leurs caractéristiques

Diabète & Obésité, 2007, 2, 15-19

Cani PD, Amar J, Burcelin R

Une flore intestinale saine pour un métabolisme énergétique sain

Obésité, 2007, 2, 221-226

Delzenne NM and Cani PD

A place for dietary fibres in the management of metabolic syndrome.

Current Opinion in Clinical Nutrition and Metabolic Care, I.F.: 3,89, 2005, , 8, 636-640

Burcelin R, Cani PD, Knauf C

GLP-1 and cerebral detection of glucose, a key mechanism for the regulation of glucose homeostasis

Medecine Sciences (Paris), 2006, 22, 237-239

Delzenne NM and Cani PD
Appetite regulation by nutrients when gut peptides dialogue with the brain...
Health and Nutrition Newsletter, Alpro Foundation, 2005, December, 1-4

Invited commentary

Cani PD.
When specific gut microbes reveal a possible link between hepatic steatosis and adipose tissue.
J Hepatol., I.F.: 9.85, 2014 61:5-6

Cani PD
Gut microbiota and pregnancy, a matter of inner life
British Journal of Nutrition, I.F.: 2,97, 2009, 101, 1579-1580

Cani PD, Delzenne NM
Flore intestinale et altérations immunitaires dans le diabète
Medecine Sciences (Paris), 2008, 12, 1041-1041

Patent

Delzenne NM, Cani PD, Fripiat A
Composition for prevention, inhibition and treatment of obesity and related diseases.
2005, WO 2005/036990 A1, Europe

Neyrinck AM, Delzenne NM, Cani PD
Arabinoxylans for modulating the barrier function of the intestinal surface
PCT/EP2009/060669, WO 2010/020639

Cani PD, Everard A, de Vos W, Belzer C
Use of Akkermansia for treating metabolic disorders. PCT/EP2013/073972 WO2014076246 A1

Book Chapters

Burcelin R, Cani PD, Knauf C Régulation de l'appétit et prévention de l'obésité in *Aliments Fonctionnels*. 2008, Lavoisier, Paris, Editions TEC&DOC, 2, pp 677-693

Delzenne NM, Cani PD, Delmée E, Neyrinck N Digestible Oligosaccharides eg inulin and oligofructose in *Novel food ingredients for weight control*. 2007, Henry CRC Press, Oxford Brookes University, UK, Woodhead Publishing, pp 153-173

Delzenne NM., Cani PD, Neyrinck A *Prebiotics and Lipid Metabolism in Therapeutic Microbiology: Probiotics and related strategies*. 2008, ASM Press, Washington D.C., pp 183-192

Delzenne NM; Cani PD, Neyrinck NM Non digestible Oligosaccharides Edible fiber components, nutrition and applications in functional foods. 2009, Marcel Dekker, Inc. Edition, New York, in press

Cani PD, Delzenne NM, Gut microbiota, diet, endotoxemia and diseases in Endotoxin Book. 2010, Wiley Publisher, Germany,

Cani PD, Burcelin R, Knauf C, Prebiotics and modulation of gastrointestinal peptides in Handbook of Prebiotics. 2008, Gibson G and Roberfroid M CRC Press, Oxford Brookes University, UK, Woodhead Publishing, pp 247-262

Cani PD, Burcelin R, Endocrinology of the Gastrointestinal Tract and Modulation of Satiety: Specific Focus on Glucagon-Like Peptide-1 in: Handbook of Prebiotics, 2008, Gibson G and Roberfroid M CRC Press, Oxford Brookes University, UK, Woodhead Publishing, pp 219-246