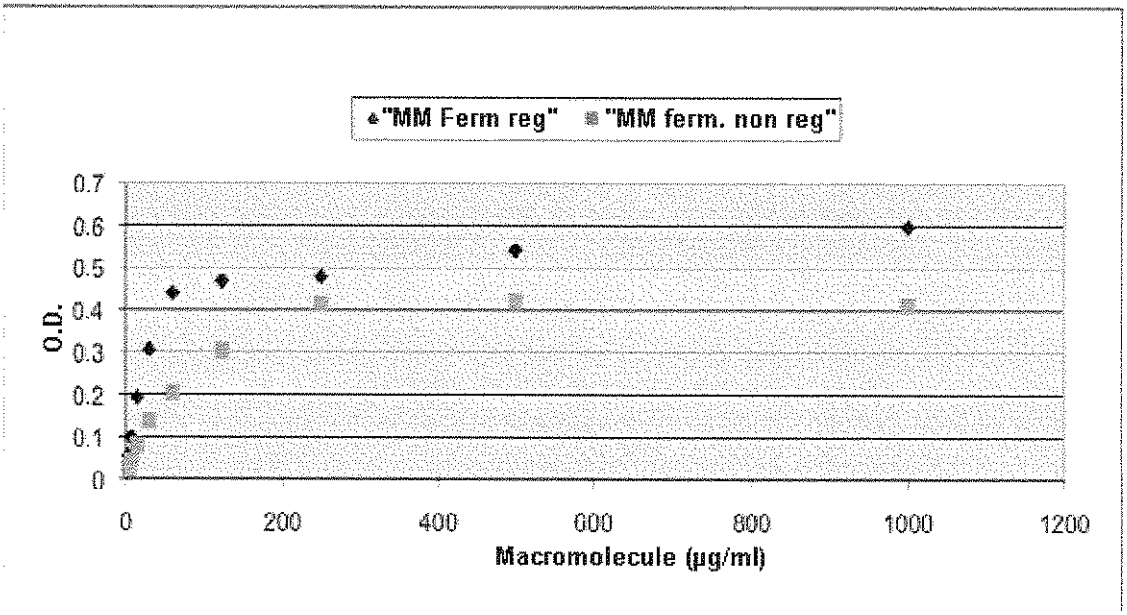


Figure 1

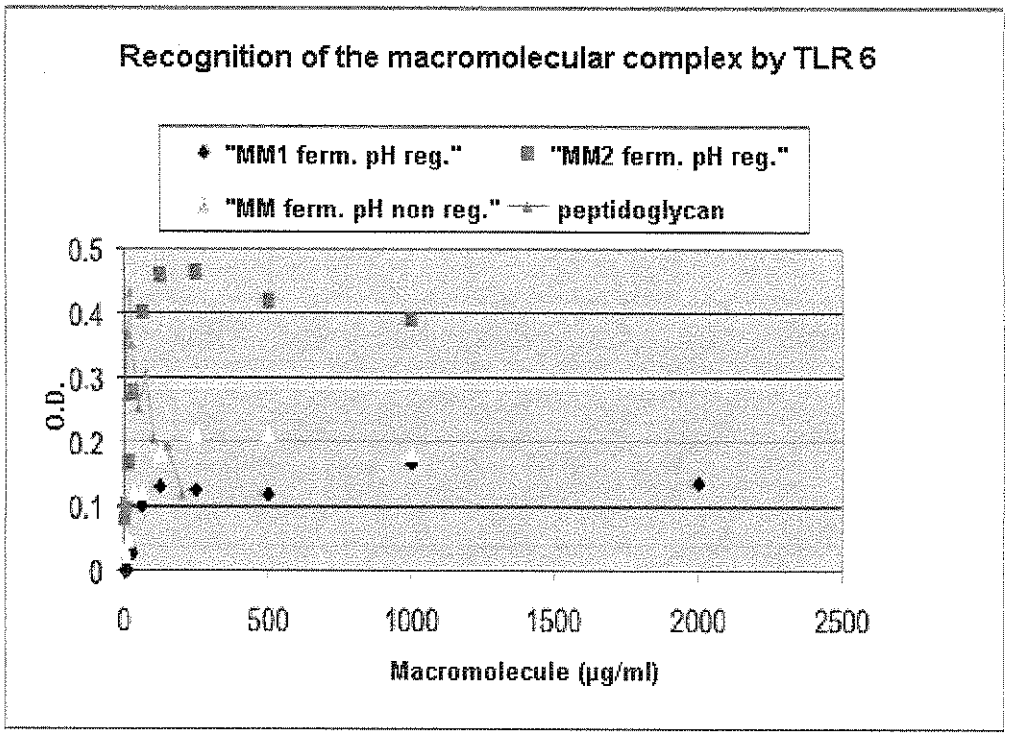


Figure 2

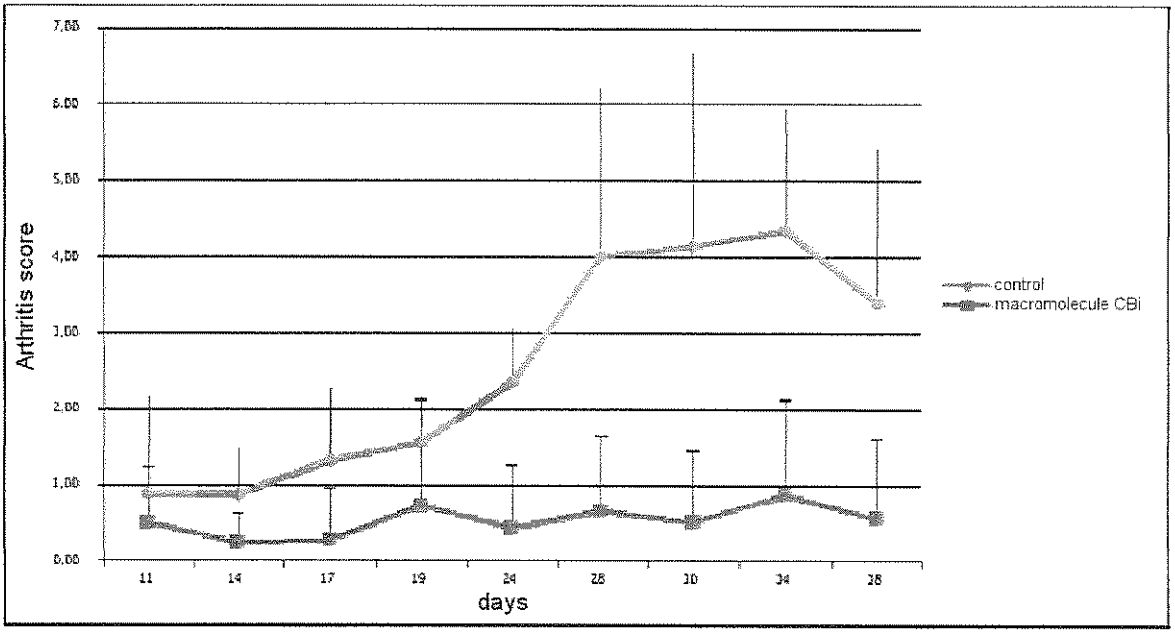


Figure 3

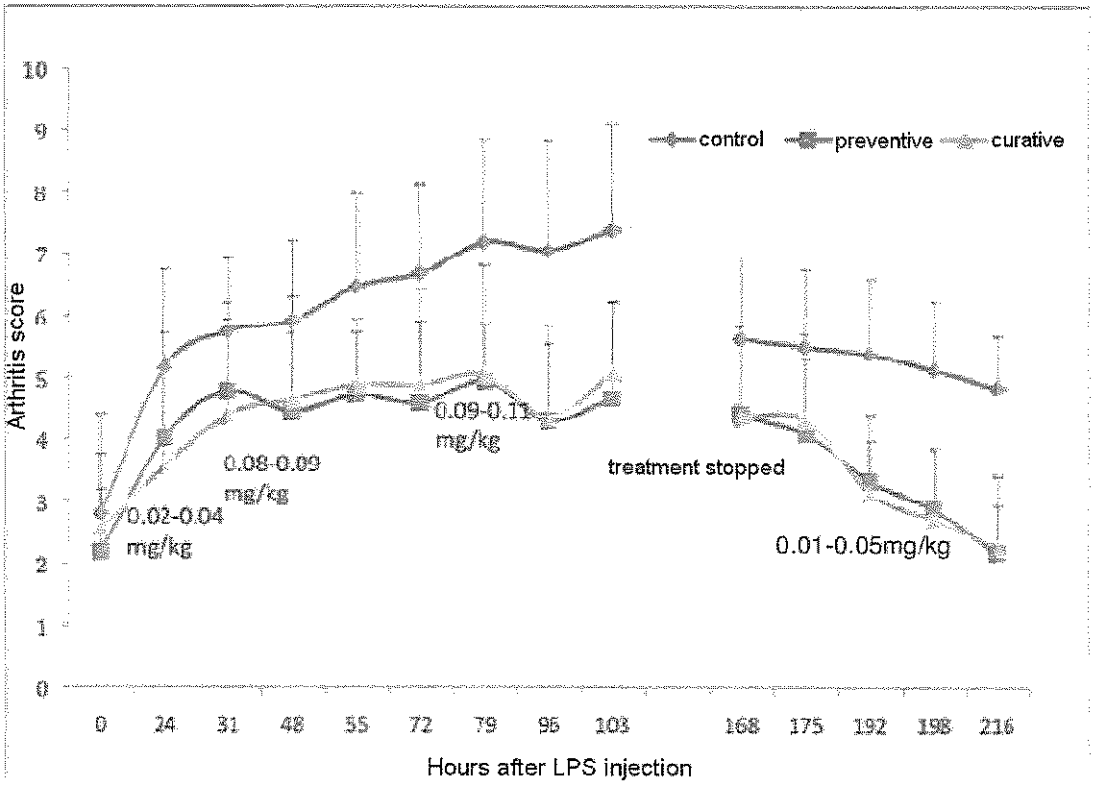


Figure 4

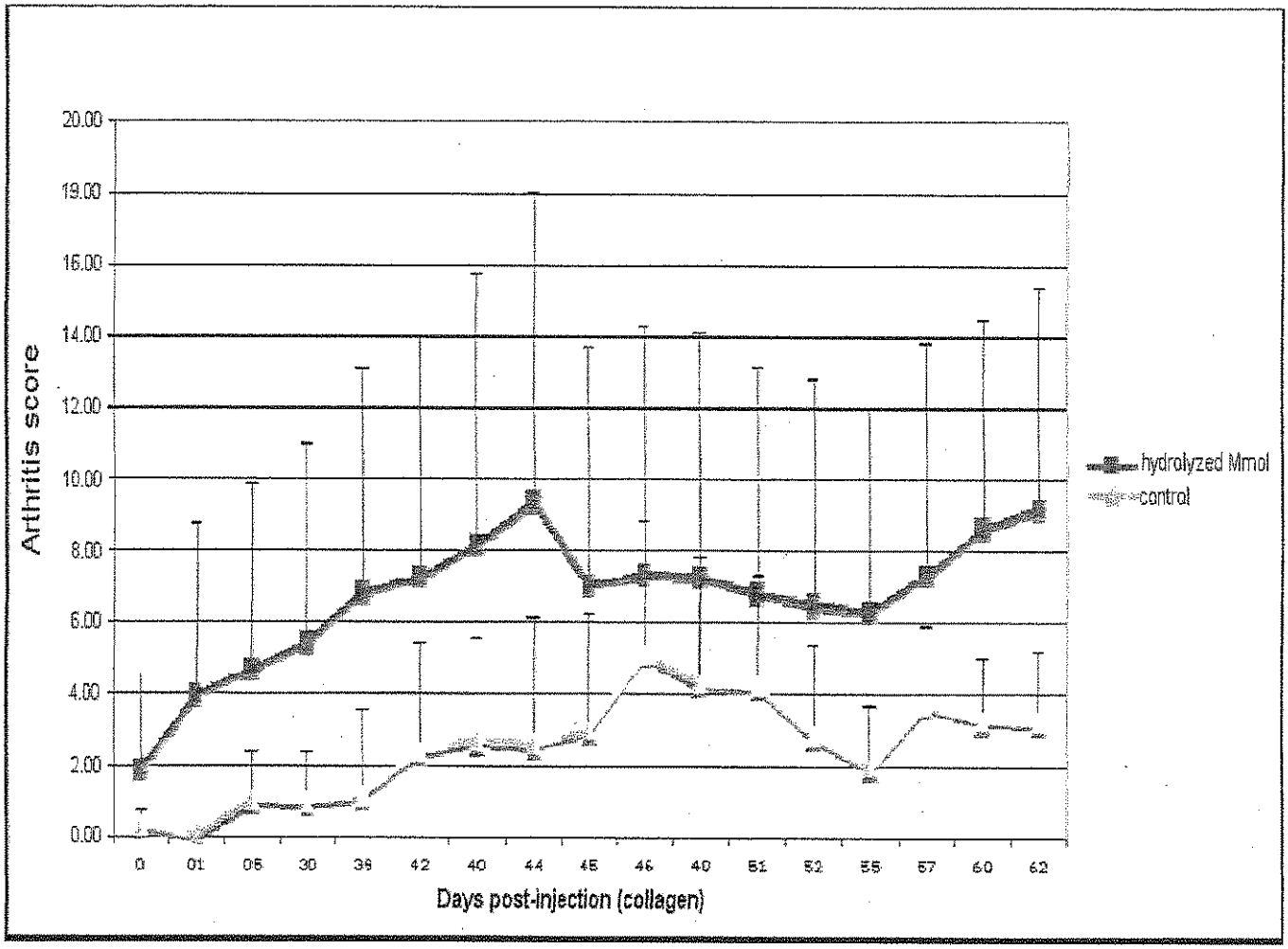

20.00
19.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Arthritis score
0
01
05
30
38
42
40
44
45
46
40
51
52
55
57
60
62
Days post-injection (collagen)
hydrolyzed Mmol
control

Figure 5

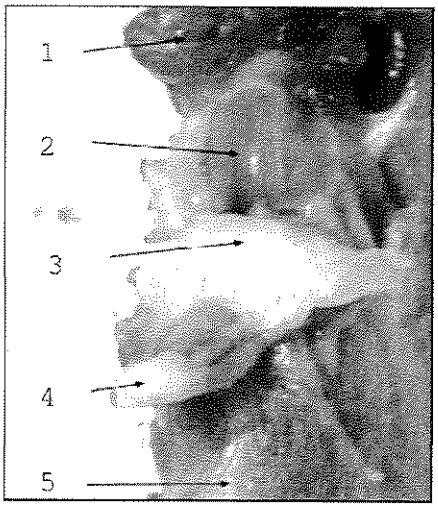


Figure 6a

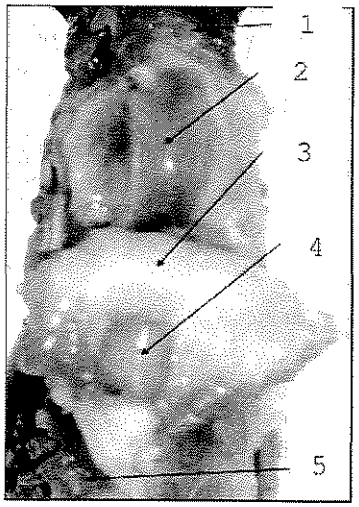


Figure 6b

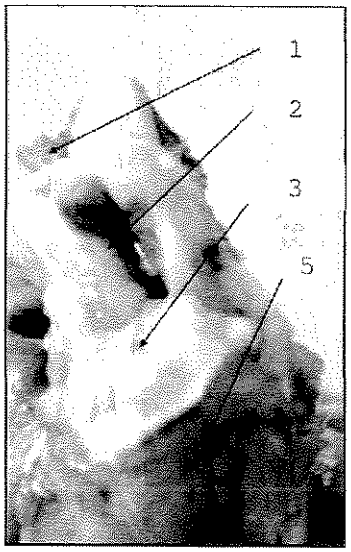


Figure 7a

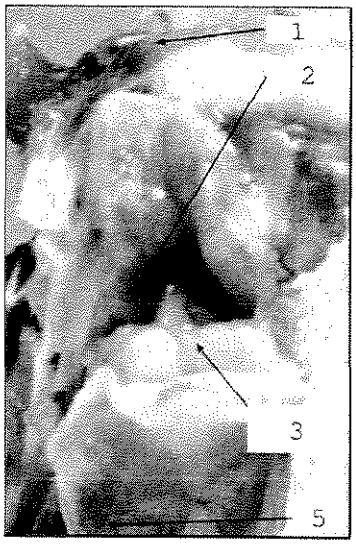


Figure 7b

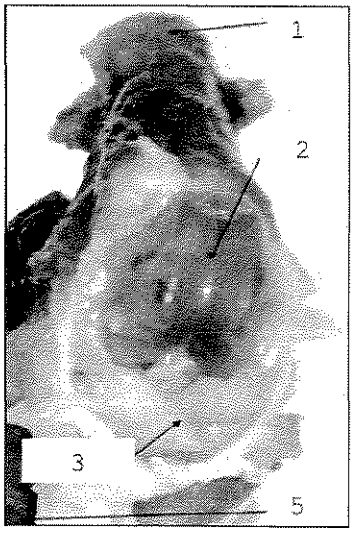


Figure 7c

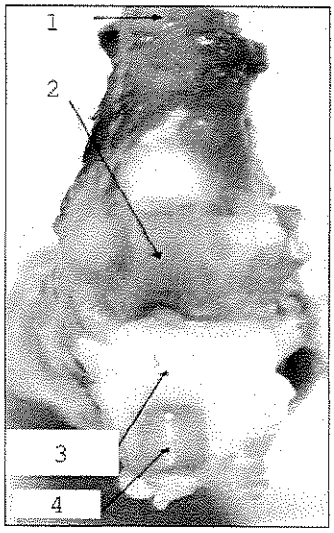


Figure 7d

Genes	Nomenclature	FA vs FN* FC	FAt vs FA**	function Metabolism
Carboxypeptidase B1 (tissue) (Cpb1), mRNA [NM_029706]	Cpb1	109.50	-252.30	protein degradation
Carboxypeptidase A1 (Cpa1), mRNA [NM_025350]	Cpa1	87.14	-217.03	protein degradation
Carboxypeptidase A2, pancreatic (Cpa2), mRNA [NM_001024698]	Cpa2	6.92	-6.60	protein degradation
Mus musculus RIKEN cDNA 2210010C04 gene , mRNA [NM_023333]	2210010C04Rik	100.41	-133.44	protein degradation (trypsinogen-like activity)
protease, serine, 3 (Prss3), mRNA [NM_011645]	Prss3	16.55	-17.25	protein degradation (inflammatory response)
protease, serine, 3 (Prss3), mRNA [NM_011645]	Prss3	6.58	-8.46	protein degradation (inflammatory response)
peptidase, serine	1810049H19Rik	8.73	-17.17	peptide hydrolysis
Chymotrypsin C (caldecrin) (Ctrc), mRNA [NM_001033875]	Ctrc	15.54	-30.45	protein degradation
protease, serine	1810049H19Rik	8.73	-17.17	protein degradation
protease, serine, 2 (Prss2), mRNA [NM_009430]	Prss2	8.34	-12.99	protein degradation
carboxyl ester lipase (Cel), mRNA [NM_009885]	Cel	10.09	-12.20	lipid degradation
pancreatic lipase related protein 1 (Pnliprp1), mRNA [NM_018874]	Pnliprp1	108.58	-177.37	lipid degradation
pancreatic lipase (Pnlip), mRNA [NM_026925]	Pnlip	95.10	-138.79	lipid degradation
PANCREATIC TRIGLYCERIDE LIPASE (FRAGMENT) homolog [Rattus norvegicus],	Pnlip	19.12	-19.56	lipid degradation
amylase 1, salivary (Amy1), mRNA [NM_007446]	Amy1	88.72	-125.11	sugar hydrolysis
amylase 1, salivary (Amy1), mRNA [NM_007446]	Amy1	29.38	-20.27	sugar hydrolysis
				Immune response, inflammation
elastase 2A (Ela2a), mRNA [NM_007919]	RP23-395H4.4	24.725	-23.922726	inflammatory diseases (emphysema, sarcoidosis)
Riken clone:C230027O20 product:mitogen activated protein kinase 10, [AK082242]	Mapk10	22.987818	-22.56085	immune response : Ag presentation
deleted in malignant brain tumors 1 (Dmbt1), mRNA [NM_007769]	Dmbt1	3.7283275	-4.3291807	immune response : Ag presentation, receptor G+/- bacteria
PREDICTED: Mus musculus similar to keratin associated protein 9-1 (LOC432600), mRNA [XM_484079]	OTTMUSG00000002191	22.03008	-22.350348	immune response? Keratin protein kinase
ribonuclease, RNase A family, 1 (pancreatic) (Rnase1), mRNA [NM_011271]	Rnase1	14.073265	-16.946436	apoptosis, maturation of dendritic cells derived from monocytes
myeloblastosis oncogene-like 1 (Mybl1), mRNA [NM_008651]	Mybl1	9.542029	-13.389937	cell division (DbC26B, MYBL1), hyperplasia of the spleen expansion of B lymphocytes
clone:A830089B11 product:unclassifiable, full insert sequence [AK139458]	AK139458	15.529197	-15.187141	Ig-like
FK506 binding protein 5 (Fkbp5), mRNA [NM_010220]	Fkbp5	-5.7101316	5.996187	glucocorticoid receptors, binding to dexamethasone

* comparison of gene expressions of dendritic cells of arthritic patient flora-associated mice vs healthy volunteer flora-associated mice.

** comparison of gene expressions of spleen dendritic cells of arthritic patient flora-associated mice treated for 15 days with 0.2 mg/l of molecules vs nontreated mice.

Table 6 : Genes of which the expression is restored to the expression values in human flora-associated mice.

Figure 8

Genes	Nomenclature	FAt vs FA** FC	function Metabolism	
Colipase, pancreatic (Clps), mRNA [NM_025469]	Clps	-49.773	lipid metabolism	
Amylase 2, pancreatic (Amy2), mRNA [NM_009669]	Amy2	-696.162	sugar metabolism	
Extra cellular link domain-containing 1 (Xlkd1), mRNA [NM_053247]	Xlkd1	-3.015	lymphatic vessel endothelial hyaluronan receptor 1 (LYVE1) : internalization of hyaluronic acid, catabolism of glycosaminoglycan	
Galactose-3-O-sulfotransferase 2 (Gal3st2), mRNA [NM_199366]	Gal3st2	-3,021	sulfation Gal in position C3 (mucin)	
			Immune response/inflammation	
10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930094O12	AK081163	-11.095	prostaglandin reductase 2 : mode of action of indomethacin by binding to PGTR2	decrease = reduction in inflammation
Cell division cycle 25 homolog B (S. pombe) (Cdc25b), mRNA [NM_023117]	Cdc25b	-4.500	initiation of mitosis	entry into cell division (in association with MYBL1)
Endothelin receptor type B (Ednrb), mRNA [NM_007904]	Ednrb	-5.601	excretion of proteins and of sodium, quantity of Ca2+ (in association with PROK2, PRSS3 (includes EG:5646)) endothelial dysfuntion endocrine system disorder (in association with AMY2A, CEL, CIRC, PNLIP, PROK2)	

Table 7 : Genes of which the expression is modified only with treatment

Figure 9