

University of California, San Francisco
CURRICULUM VITAE

Name: Pierre-Antoine Gourraud, PhD MPH
Position: Assistant Professor In Residence, Step 3
Neurology
School of Medicine

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EDUCATION

2014 - 2014	University of Nantes, France	HDR	Medicine	
2007 - 2010	University of Toulouse III, France	Ed.D	Medical Education	
2004 - 2006	Catholic University of Toulouse, France	B. Phil.	Philosophy	
2002 - 2005	University of Toulouse III, France	Ph.D.	Immunogenetics	Dr A Cambon-Thomsen, Pr JP Florens
1999 - 2003	Ecole Normale Supérieure, Univ. of Lyon I, France	Normalien	Biology	
2001 - 2002	School of Public Health, Univ. of Paris XI, France	M.P.H.	Genetic Epidemiology	Dr A Cambon-Thomsen
1999 - 2001	Department of Biology, Univ. of Lyon I, France	M.Sc.	Physiology-Cell Biology	
1997 - 1999	Lycee Sainte Geneviève, Versailles, France	B.Sc.	Biology, Mathematics	

PRINCIPAL POSITIONS HELD

2014 - present	University of California, San Francisco	Assistant Professor in residence	Neurology
2011 - 2013	University of California, San Francisco	Assistant Adjunct Professor	Neurology
2009 - 2011	University of California, San Francisco	Post doctoral	Neurology

	Francisco	Fellow	
2006 - 2008	University of Toulouse III	Chief Practitioner	Epidemiology
2003 - 2006	Inserm Unit 558, Toulouse	Allocataire de Recherche	Immunogenetics
1999 - 2003	ENS, Lyon	Elève-Ecole Normale	Biology

OTHER POSITIONS HELD CONCURRENTLY

2006 - 2013	Sup'Biotech Research Institute, France	Research Associate	Biotechnology
2003 - 2006	Univ. of Toulouse III, France	Lecturer	Biology and Medicine
2001 - 2003	Univ. of Toulouse III, France	Teaching Assistant	Medicine

HONORS AND AWARDS

2014	Young Leader - Class 2014	French American Foundation
2013	Nancy Davis Foundation Award for Junior Faculty	Nancy Davis Foundation, Los Angeles, USA
2012	Julia Bodmer Award for junior investigator in Immunology and Genetics	IHIW - International Histocompatibility Workshop; EFI - European Federation of Immunogenetics; BSHI - British Society of Histocompatibility and Immunology
2003	ATUPS University Travel Award for completion of PhD in Japan	Univ. of Toulouse III, France
2003	Allocation Couplée de thèse - 4 years PhD Fellowship	Univ. of Toulouse III, France
2001	Travel Award for young investigator	European Federation of Immunogenetics
1999	Ecole Normale Supérieure de Lyon - 4 years Master Degree Fellowship	ENS-Lyon, Biology Department.

KEYWORDS/AREAS OF INTEREST

Epidemiology, Genetics, Public Health, Immunology, Medical Bio-Informatics, Transplantation, Auto-immune disease, Ethics, Philosophy

PROFESSIONAL ACTIVITIES

CLINICAL

2006-2008 Weekly supervisor, Biostatistics, Study Design, and Implementation Issues Consultation Service at University Hospital of Toulouse Rangueil, France: I directed the consultation services one day a week for two years.

PROFESSIONAL ORGANIZATIONS

Memberships

- 2009 - present American Society of Human Genetics
- 2009 - present International Society of Genetic Epidemiology
- 2009 - present Société Française d'Histocompatibilité et d'Immunogénétique
- 2009 - present American Society of Histocompatibility and Immunogenetics
- 2001 - present European federation of Immunogenetics, Member of the bioinformatic committee
- 2005 - 2008 Société Française de Génétique
- 2005 - 2006 International Society of Immunomics

Service to Professional Organizations

- 2014 - present UCSF Insiders' circle by UCSF center for Entrepreneurship
- 2014 - present Bio-conference live Scientific Advisory board for Neurosciences and Genomics
- 2014 - present Reviewer and Panelist for the NETVA programm (NEw Technology Venture Accelerator) by the French Office for Science and Technology
- 2013 - present Reviewer for the South France clinical research Committee
- 2011 - present Basic Science Committee if the American Society of Histo-Compatibility and Immunogenetics
- 2011 - present ID working group of the Biobank Resource Impact Factor Consortium
- 2011 - present Web Committee of the European Federation for Immunogenetics
- 2011 - present Scientific Advisory Board of the Multiple Sclerosis Discovery Forum
- 2010 - present Bioinformatics Research Advisory Ginger Group - National Marrow Donor Program (USA)
- 2010 - present Scientific Advisory Board of MSGene.org
- 2009 - present Education and research councilor (Sup'Biotech

- Institute, France)
- 2006 - present HLA expert for the French Haematopoietic Donor Registry - Agence de la Biomedicine, Paris
 - 2014 - 2014 Reviewer for Digital Intelligence conference
 - 2005 - 2008 Bioinformatics committee of the European Federation of Immunogenetics
 - 2004 - 2008 Users' committee of the Bioinformatics core facility of Toulouse Genopole
 - 2006 - 2008 City, regional and national research reviewer for university Hospital clinical research projects.
 - 2007 - 2007 Co-organizer of the « Journée Toulousaine de Génétique Multifactorielles des maladies Inflammatoires et Auto-Immunes » Toulouse France
 - 2008 - 2008 Organizing committee of the EFI Conference Toulouse
 - 2003 - 2003 Organizing committee of the Clinical Epidemiology Conference (ADELF)

SERVICE TO PROFESSIONAL PUBLICATIONS

- 2013 - present Human Immunology - Section-Editor
- 2012 - present International Journal of Immunogenetics - Member of the Editorial Board
- 2014 - present Pharmacogenomics Journal - Reviewer 1 Paper
- 2014 - present The Lancet Hematology- Reviewer 1 paper
- 2013 - present Journal of Neurology, Neurosurgery, and Psychiatry. - Reviewer 2 Papers

- 2013 - present Multiple Sclerosis and Related Disorders - Reviewer 2 Papers
- 2013 - present Expert Review of Neurotherapeutics- Reviewer 1 Paper
- 2013 - present Infection, Genetics and Evolution - Reviewer 1 Paper
- 2013 - present Brain, Behavior, and Immunity - Reviewer 1 Paper
- 2013 - present Multiple Sclerosis - Reviewer 2 Papers
- 2013 - present Human Genetics - Reviewer - 1 Paper
- 2013 - present The Journal of Rheumatology - Reviewer - 1 Paper
- 2012 - present Plos Computational Biology - Reviewer 2 Papers
- 2012 - present Neurology, Psychiatry and Brain Research - Reviewer 1 Paper
- 2012 - present European Journal of Human Genetics - Reviewer 3 Papers
- 2011 - present Plos One - Reviewer 4 Papers
- 2011 - present Immunogenetics - Reviewer 3 Papers

- 2009 - present Annals of Neurology - Reviewer 7 Papers
 2008 - present Arthritis Research Therapy- 2 Papers
 2007 - present Human Immunology - Reviewer 6 papers
 2006 - present The International Journal of Immunogenetics - Reviewer 17 papers
 2006 - present Plos Genetics - Reviewer 2 Papers
 2005 - present Tissue Antigens - Reviewer 17 papers

INVITED PRESENTATIONS

INTERNATIONAL

- | | | |
|------|--|-----------|
| 2014 | Bio-conference live in Neurosciences "The MS Bioscreen, precision medicine in MS", March 21st | Presenter |
| 2014 | New technology Venture Accelerator 2014 | Panelist |
| 2014 | Atelier Inserm 227 "From research participant to the clinic: Data Processing issues From bed to bench and back" Bordeaux france March 24th 2014 | Speaker |
| 2014 | "Emerging front-line for allogenic stem cell therapy in XXI century, the development of haplobank of iPSC haplotypes" , EFI-Histogenetics Lunch Session- June 19th 2014, Stockholm | Speaker |
| 2014 | "Haplo homozygous haplobank of IpSC" Jan 24th , CIMR San Francisco | Speaker |
| 2014 | "A Californian haplo-bank to serve the need of US and the world ?" Sept 26th 2014, San Francisco | Speaker |
| 2014 | Digital Health Summit: the MS Bioscreen: Bridging the gap between population and individual medicine | Speaker |
| 2014 | German Mini MS Symposium, Spet 27th 2014 - The MS Bioscreen, precision medicine for MS | Speaker |
| 2013 | New Technology Venture Accelerator | Panelist |
| 2013 | "Role of HLA haplotype in Haemotpoietic stem cell transplantation" Annual meeting of the SFHI, Paris Jan 27 2013 | Speaker |
| 2013 | TPWF " Innovation in academics environment for disruptive heath management practice" Aprils 5th San Francisco | Speaker |
| 2013 | "Introducing new generation sequencing technology in the MHC - HLA genetics, Transplantation and beyond. " June 27-28 2013, San Francisco | Speaker |
| 2013 | The clinical genome conference III : " role of new generation sequencing techniques in the health" | Panelist |
| 2012 | European Federation of Immunogenetics - Plenary session "Immunogenetics still a cool playground for XIX | Speaker |

	century kids" June 15 2012	
2012	Biobank Research Impact Factor ID Sustainability of MS repository and Identification system, October 25th, Toulouse France	Speaker
2012	Genetic risk score "MSGB" State of work in the MS genetics group.- Genetics and Auto-immunity club at UCSF, Department of Rheumatology, San Francisco USA	Speaker
2011	MS Genetics in 2011.- Decode Genetics Seminars, Iceland	Speaker
2011	Aggregation of Genetic Risk Variants in Multiple Sclerosis.- 2011 Keystone Symposia Conference B8: Genetics, Immunology and Repair in Multiple Sclerosis	Speaker
2009	Algorithmes en Genetique des populations et Registres de donneurs de cellules souches hématopoiétiques :De l'exploration des données... à la recherche de donneurs assistée par ordinateur.- Journée de l'agence de la biomedecine, 14 décembre 2009, Paris France	Speaker
2008	Les enjeux méthodologiques et epidemiologiques des Groupes d'experts sur le Psoriasis. GP Abbot d'experts sur le psoriasis, Paris, France. 2008	Speaker
2008	Modelling the economics of Bone marrow donors Registries in The Poseidon Consortium.- EFI Satellite meeting Poseidon	Speaker
2008	The haplotype-based simulation of HLA types with missing data.- WMDA Genetic diversity Group; London, 26th January, 2008	Speaker
2008	Policy Development for Biobanking.- Public Health Genomics European Network- Final Conference- Thursday 27th November 2008; Istanbul Turkey	Speaker
2007	The Data Simulation for Haplotype estimation & dissemination in the Working group.- WMDA Genetic diversity Group; Lyon March 24th, 2007,	Speaker
2007	Sampling chromosomes" challenges the "individual informed consent.- Brocher Foundation workshop, Switzerland December 5 - 7, 2007 "Translational medicine and public health policy: lessons from biobanks Ethical, Legal, Social Issues (ELSI)"	Speaker
2006	Nomenclature Problems and Methodology for France.- WMDA Genetic diversity Group; Leiden, 13th November, 2006	Speaker
2006	What can I do when you trust me enough to provide me with your DNA ? .- French Embassy in London, November 2006	Speaker

NATIONAL

2015	National association for cell and molecular biology teaching fro Systems biology to Sytemic approach of patient health" Sept 25th Nantes France.	Speaker
2014	PCORI national meet-up Pateinet center approach in the MS Bioscreen project"	speaker
2014	NMSS national board "the MS bioscreen"	presenter
2013	PCORI board of Directors Meeting : "The MS Bioscreen" February 4th San Francisco	Speaker
2014	Neurology Grand Round USC "From MS genetics to the MS Bioscreen From Bedside to Bench and back",	Speaker
2013	Health Innovation Summit : "The MS Bloscreen Presentation" Aug 14 2013, San Francisco	Speaker
2013	Technology and Infrastructure Group Share and Tell webinar" The MS Bioscreen" Sep 19th, Washington	Speaker
2013	1000 Genomes and Human Genome diversity Panel HLA and SNP resources for developing a testing framework of SNP-based HLA imputation methods, BRAGG IV Salt lake City	Speaker
2013	" The Problem With the French (is that they don't have a word for entrepreneur)" Parisoma, San Francisco	Speaker
2012	MS Genetics - University of Southern California, December	Speaker
2012	MS and progressive form of MS - Nancy Davis Foundation Scientific meeting, December	Speaker
2011	MS Genetics in 2011 Past - Present - Future.- National Marrow Donor Program, July 2011, Minneapolis, USA	Speaker
2009	HLA data in IMAGEN consortium - MHC in AA MS.- NIH HLA consortium,December 1st, 2009 Bethesda, USA	Speaker
2008	Enjeux methodologiques des revues systématiques de la littérature.- Groupe Abbot d'analyse sytématique de la literature en Rhumatologie, 18 Décembre 2008, Toulouse, France	Speaker
2008	Les enjeux méthodologiques et epidemiologiques des Groupes d'experts sur le Psoriasis.- GP Abbot d'experts sur le psoriasis, Paris, France	Speaker
2005	Déséquilibre de liaison et analyse d'haplotypes dans la région HLA.- Journée Déséquilibre de liaison Genopole Toulouse -INRA 17 11 2004	Speaker
2002	Que faire pour les Registres avec des haplotypes? ou La Collaboration FGM - Unité INSERM 558.- Assemblée Générale du Registre RFGM - Jeudi 6 juin 2002	Speaker

REGIONAL AND OTHER INVITED PRESENTATIONS

2014	CTSI Quest Diagnostic - :The MS Bioscreen Jan 9th 2014	Speaker
2014	Bio-gen " the place of clinical trial data set in Precision medicine, the MS Bio screen potential"	Speaker
2014	CDHI frontline innovators- "the MS Bioscreen big data in neurosciences"	Speaker
2014	"From MS genetics to the MS Bioscreen From Bedside to Bench and back" CESTI, Nantes March 21st	Speaker
2014	The MS Bioscreen project " Dutch digital health symposium, Sept 26th	Speaker
2014	"DNA day Lecture" from Classical Epidemiology to precision Medicine, Public Health Genomics Pro. University of Washington, Seattle April 21st 2014	Speaker
2014	Sanofi-Genzyme leadership retreat , The MS Bio-screen application emerging precision medicine for chronic medical conditions - Jan 15th, San Francisco	Speaker
2014	Th MS Bioscreen : integration of four cohort datasets for the SUMMIT project, Feb 22nd 2014, San Francisco	Speaker
2013	Neuroimmunology Journal club : "The MS Bioscreen for patient to bedside and back" Oct 18th 2013, UCSF Dept of Neurology, San Francisco, USA	Speaker
2013	Lilyana Amezuca Lab Meeting University of Southern California : "MS genetics and Beyond, in various ancestral backgrounds", Dec 10th Los Angeles, USA	Speaker
2013	The Nancy Davis annual scientific meeting, "MS genetic burden in 2013", 9th Dec 2013, Los Angeles, USA	Speaker
2013	Genopole-Prime event and technology showcase-" the MS Bioscreen" May 2nd, 2013	Speaker and Panelist
2013	University of California Berkeley "the MS Bioscreen" May 2st, 2013 Berkeley, USA	Speaker
2013	Lab Meeting in Sarah Nelson Research group : "The MS Bioscreen" May 6th 2013, UCsF Dept of Radiology, San Francisco, USA	Speaker
2013	Nancy Davis Annual symposium "MS genetic burden in 2013" May 2nd, 2013 Los Angeles, USA	Speaker
2013	Lab Meeting in Adam Gazzaley Research group : "The MS Bioscreen" Aug 12th 2013, UCF Dept of Neurology	Speaker
2013	Life Science Angel (LSA) Mentor Day "The MS Bioscreen" May 29th, 2013	Speaker
2012	University of Southern California " MS genetics " Dec 4th 2013 Los Angeles	Speaker

2012	Multiple Sclerosis Genetic Burden: Research, back to the individual level. .- Spanish Preceptorship-Day, UCSF Departement of Neurology, San Francisco USA	Speaker
2012	Multiple Sclerosis Genetic Burden: Genes, Complex Disease and Beyond....- Center for Cerebrovascular research , USCF, San Francisco	Speaker
2011	Sequencing EFFORTS CANDIDATE GENES.- IMSGC Meeting, february 2011, Miami, USA	Speaker
2011	SECONDARY ANALYSES MS Genetics Scores.- IMSGC Meeting, february 2011, Miami, USA	Speaker
2011	Secondary analyses candidates genes.- IMSGC Meeting, february 2011, Miami, USA	Speaker
2011	MS Genetics in 2011 : Past - Present - Future.- Neuroimmunology Journal Club - UCSF Departement of Neurology, San Francisco USA	Speaker
2010	Résolution de mélanges et prises en compte de données partielles par maximum de vraisemblance: Enjeux de son utilisation en génétique épidémiologique à l'exemple des polymorphismes KIR et HLA.- BioStatistical research Unit University of Nantes, France	Speaker
2010	ALGORITHMES EN IMMUNOGENETIQUE DES POPULATIONS : 4 regards statistiques sur des questionnements immunogénétiques en Transplantation.- ITER seminar series, Nantes, France	Speaker
2010	Multiple Sclerosis Genetic Burden in Multicases and Sporadic families.- IMSGC Meeting, 13-14 April 2010, Toronto, Canada	Speaker
2009	APOBEC3 genetics in HIV early infection.- Seminar of the immunogenetics of HIV, HIV/AIDS Division, UC San francisco USA	Speaker
2007	Résolution de mélange et prises en compte de données manquantes par maximum de vraisemblance: Enjeux de son utilisation en génétique épidémiologique à l'exemple des polymorphismes des cellules NK.- Séminaire du Laboratoire de Statistiques et Probabilités 4 décembre 2007	Speaker
2007	La contribution épidémiologique dans l'analyse de données d'expression génique dans les cancers du colon.- Journée de l'axe 3R du canceropole Grand Sud-Ouest 15 mai 2007	Speaker
2007	Développement d'outils méthodologiques prenant en compte le déséquilibre de liaison : application aux gènes HLA et KIR en immunogénétique.- Journée Toulousaine de Recherche clinique et Génétique Multifactorielles des maladies Inflammatoires et Auto-Immunes- 2 octobre 2007	

2007	An epidemiological contribution to a molecular genetic study of gene expression in Colon Cancer.- National Center for Cancer; March 14th, 2010, Tokyo, Japan	Speaker
2006	Haplotype estimation using KIR genotypes: A constrained maximum likelihood method and perspectives on LD in KIR Region.- Seminars of the Immunology and Transplanttaion departement December 22nd - Rasket Hospital Oslo, Norway	Speaker
2006	The use of linkage disequilibrium between genes and microsatellites of the HLA region for bone marrow donor registries: Perspectives on LD and its use in genetic epidemiology.- Seminar of the genetics groups NCBI, June 22nd, 2006 Bethesda USA	Speaker
2006	Predisposing and protective HLA -DRB1 for rheumatoid arthritis: Structural severity and anti-citrullinated peptide antibodies according to a new classification of HLA-DRB1 alleles.- Seminars of the Immunology and Transplanttaion departement - Rasket Hospital Oslo, Norway June	Speaker
2006	La contribution épidémiologique dans l'analyse de données d'expression génique dans les cancers du colon. - Séminaire IFR 126 Toulouse 7 décembre 2006	Speaker
2005	Estimation de fréquences d'haplotypes par maximum de vraisemblance en géénétique humaine.- Groupe déséquilibre de liaison; B Mangin; INRA-Toulouse, France	Speaker
2004	Estimation de fréquences d'haplotypes par maximum de vraisemblance en génétique humaine.- Séminaire de Statistiques - Institut d'Economie Industrielle (IDEI) Toulouse,France	Speaker
2004	Une expérience universitaire Franco-Japonaise: Regard sur la place de l'industrie dans les centres de recherche".- Journée de la chambre de commerce internationale, Octobre 2004	Speaker
2004	Genetics in Inserm Unit 558 Team4 Genomics, health, society: Multidisciplinary analyses and decision in health From purely genetical issues to multidisciplinary Project.- Oxford center for Ethics, September 7th 2004; Oxford, UK	Speaker
2003	Microsatellites in the MHC region.- Isheara university hospital Seminar, August 2003	Speaker
2003	La notion de « HLA fréquent » dans le projet MAD0.- Assemblée Générale du Registre RFGM - Jeudi 22 juin 2003	Speaker
2002	Interactions entre génétique et économie dans le projet MAD0.- Séminaire de l'unité 558, Juillet 2002	Speaker

2002 La génétique dans l'épidémiologie d'aujourd'hui.-
Seminaire de l'unité 558, février 2002 Speaker

CONTINUING EDUCATION COURSES ATTENDED

2013 Lean Launch Pad - Start-up by Steve Blank - Finalist-
2009 Becoming and Effective Science Teascher (BEST) UC San Francisco
2006 Introduction to Medical Education Science for Chief practitioner, Education, France
2007 Diplome Universitaire de Pedagogie Medicale (Mediceal Eduction Science) University
of Toulouse, Department of Continuous Medical Education, France.

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

2006 - 2008 Intramural clinical research hospital funding, Grant reviewer
regional clinical research hospital funding;
National clinical research hospital funding, Agence
de la BioMedecine, Institut National du Cancer,
Genotoul
2010 - present National Marrow Donor Program (USA) Population Genetics Expert
reviewer
2005 - present Registre France Greffe de Moelle (Biomédecine HLA Expert reviewer
Agency, Paris)

UNIVERSITY AND PUBLIC SERVICE

UNIVERSITY SERVICE

UC SYSTEM-WIDE

2012 - present Undergraduate Research Apprentice Program Mentor
(URAP) UC Berkeley - 5 apprentices

UCSF CAMPUS-WIDE

2014 - present RAP Health Policy Review Committee (UCSF Reviewer Panelist
Resource Allocation Program)
2013 - present RAP Technology Review Committee (UCSF Reviewer Panelist
Resource Allocation Program)
2014 - 2014 RAP Spring 14 Health Policy Review Committee Ad hoc reviewer
(UCSF Resource Allocation Program)

SCHOOL OF MEDICINE

2013 - 2013 Introductory conference to the new residents in Presenter
Neurology: " Personalized Medicine in Multiple
Sclerosis: What it means ? How to access and
use data"
2013 - 2013 Knowledge network that merges and integrates Presenter
all life science and disease information.

"Precision Medicine: Making the Personal Possible." October 31, 2013

2013 - 2014 Front line innovators presenter at the UCSF Center for digital Health Innovation Presenter
(GE, Boehringer, Genentech, Samsung, Novartis, Dutch Tech, Health Leaders, Sanofi-genzyme)
> 10 presentations

DEPARTMENTAL SERVICE

2014 - 2015 Re-modelling of scientific offices of the Neuroscience Building (NS235 NS221 NS222 , ~4,000 Sq ft) into a creative workspace dedicated to high dimension data analysis in Neurosciences (~ \$ 300 K) Project Leader

SUMMARY OF SERVICE ACTIVITIES

I serve on various committee for reviewing research grant and allocate resources and promote entrepreneurship and innovation in digital health and data-driven medicine at UCSF.

TEACHING AND MENTORING

TEACHING

INFORMAL TEACHING

2011 - present Informal applied statistical analyses to Post-docs and trainees of the Multiple Sclerosis (MS) research group at UCSF.

TEACHING NARRATIVE

My teaching activities consists of informal teaching to postdoctoral fellows, non-faculty academics and trainees in the laboratory. I often use previous lectures given in Genetics, Epidemiology and Biostatistics.

MENTORING

PREDOCTORAL STUDENTS SUPERVISED OR MENTORED

Dates	Name	Program or School	Role	Current Position
2002 - 2003	P. Lamiroux	Epitech Paris	Estihaplo, Version 1, Optimisation de codage	Informatics
2003 - 2004	P. Lamiroux	Epitech Paris	Haplopred, module de prédiction de paire d'haplotypes	Informatics
2002 - 2003	V. Gaillard	IUT STID	Management donnée et	Data management

Dates	Name	Program or School	Role	Current Position
			interrogation de BDD à distance	
2002 - 2003	S. Ruquet	INSA	Inférence de phase haplotypique Stage de Probabilité	Biostatistics
2003 - 2004	T. Barnetche	M1_Pub. Heath	Méta Analyses de Marqueurs Microsatellites Stage M1	Gen Epi
2004 - 2005	T. Barnetche	M2 Pub. Heath	Marqueurs microsatellites du CM et PR	Gen Epi
2004 - 2005	M. Derré	M2_Pro Bioinfo	Base de données de Méta Analyse de marqueurs génétiques	Bioinformatics
2004 - 2005	R. Jourjon	Stage X 3A	Capture Recapture en Génétique	Biostatistics
2004 - 2005	F. Fourtine	IUT STID	Analyse des Données Manquantes en génétique	Data management
2005 - 2006	T. Barnetche	PhD Biologie	Génétique de la Polyarthrite Rhumatoïde	Gen Epi
2006 - 2007	J. Antic	INSA	Distribution du polymorphisme HLA en France	Distribution du polymorphisme HLA en France
2006 - 2007	S.Jolibert	M1 Pro Informatics University of Toulouse	Base de données de Méta Analyse de marqueurs génétiques	Base de données de Méta Analyse de marqueurs génétiques
2007 - 2008	R. Gohmi	M1 Pro Informatics University of Toulouse	Base de données de Méta Analyse de marqueurs génétiques	Bioinformatics
2007 - 2008	S. Mor'Kane	M2R Epidemiology University of Toulouse	Inférence d'haplotype et Transplantation rénale	Gen Epi
2006 - 2007	R. Gimenes	M2PRO Biostatistics University of Toulouse	Résolution de mélanges, et de données manquantes en génétique	Biostatistics
2007 - 2008	G. Mouthino	IUT INFORMATIQUE	Informatics	Mise en place de serveur local
2006 - 2007	C. Do	DES Pub. Heath y	Analyse Génétique moléculaire en Cancérologie	Pub. Heath
2006 - 2007	A. Rochat	LERIA EPITECH	Codage d'un module de	Informatics

Dates	Name	Program or School	Role	Current Position
			description du Déséquilibre de liaison	
2006 - 2007	L. Siquier	EPITECH	Estihaplo, Version 2, Optimisation de codage	Informatics
2006 - 2007	D. Lebrun	EPITECH	Mammouthpédia	Informatics
2004 - 2005	A. Preveraud	INSA Toulouse	Modèle économétrique, HLA et Microsatellites	Biostatistics
2007 - 2008	P. Soler	DES Pub. Heath	Stage en Service d'Epidemiology, Aide à la rédaction de questionnaires	PH Residency
2007 - 2008	J. Bouguennec	DES Pub. Heath	Stage en Service d'Epidemiology, Aide à l'interprétation des statistiques	PH Residency
2007 - 2008	A. Gallini	DES Pub. Heath	Stage en Service d'Epidemiology	PH Residency
2007 - 2008	F. Burgan	DES Pub. Heath	Stage Service d'Epidemiology, Enjeu réglementaires et légaux.	PH Residency
2007 - 2008	A. Cappietto	DES Pub. Heath	Stage en UF de méthodologie de la recherche clinique, Cancérologie	PH Residency
2007 - 2008	A. Cabes		Programmation d'un module de calcul du Chi2 en ligne	Education Science
2007 - 2008	T. Bui-Tho	Epitech Toulouse	Programmation d'un module de calcul du Se Sp VPP VPN en ligne	Education Science
2007 - 2008	A. Saoudi	M2R Epidemiology	Phénotype Diplotypes Génotypes et analyse en transplantation	Gen Epi
2006 - 2007	J.B. Dilger	L3 SID	Analyse de données Manquantes des marqueurs Microsatellites	Gen Epi
2008 - 2009	T. Métivet	Ecole Centrale Paris	eHLA, Base de donnée HLA simulée	Biotechnologie

Dates	Name	Program or School	Role	Current Position
2008 - 2009	O. Risbourg	Ecole Centrale Paris	eHLA, Base de donnée HLA simulée	Biotechnologie
2008 - 2009	C.Culan	Ecole Centrale Paris	eHLA, Base de donnée HLA simulée	Biotechnologie
2008 - 2009	K. Metallaoui	Ecole Centrale Paris	eHLA, Base de donnée HLA simulée	Biotechnologie
2008 - 2009	B.Letournel	Ecole Centrale Paris	eHLA, Base de donnée HLA simulée	Biotechnologie
2010 - 2011	D Dai	High Shool	HLA haplotype frequency database	Literature search
2011 - 2012	V. Bakthavachalam	UC Berkley	Genetic risk Score in MS and equivalence testing	Biostatistics
2011 - 2012	A. Tomich	UC Berkley	HLA haplotype frequency and IPS haplobank	Immunogenetic
2011 - 2012	R. Loren	Faber Novel	The MS Dashboard Project	Technology
2012 - 2012	L. Covex	Bordeaux University Hospital	The MS Bioscreen	Mobile health and EMR
2012 - 2012	A. Erhenberg	Redwood High School	Bioresource Impact Factor	Research Sustainability
2012 - 2012	C. Hubert	Victro Segalen University	R Biostatistics tutorial	Biostatistics
2012 - 2012	B. Cottignies	LaBruyere Institution	The Bioscreen strategy	Business strategy
2012 - 2013	Jinyang Yang	UC Berkeley	Genetic Risk Score in MS	Genetic Epidemiology
2013 - 2013	Fiona Li	ICL -UC Berkeley	Genetics visualization in Bioscreen	Translational Medicine
2013 - 2013	Matthew Chan	UC Berkeley	MSGB computation	Informatics
2013 - 2013	Nicholas Sammond	UC Berkeley	MRI Segmentation	Imaging
2013 - 2013	Lea Pellerin	University of Bordeaux	Bioscreen- based Neurological exam	Digital Medicine
2013 - 2013	Salimata Gassama	University of Paris	Data driven treatment options	Digital Medicine
2013 - 2014	Thomas Gaetano	University of Berkeley	Ethical issues in Personalized Medicine	Ethics
2013 - 2014	He Ma	University of Berkeley	Quality of life and patient centered tools for Multiple Sclerosis	Epidemiology digital Medicine

Dates	Name	Program or School	Role	Current Position
2013 - 2014	Maanvi Mittal	University of Berkeley	Patients' reaction to Personalized Medicine	Digital Medicine
2013 - 2013	Joseph Yeo Chon	University of Berkeley	MSGB computations tools	Genetic Epidemiology
2013 - 2014	Arjun Panda	University of Berkeley	MSGB analyses	Genetic Epidemiology
2013 - 2014	William Liu	University of Berkeley	API and patient/consumer data	Digital medicine
2014 - 2014	Alisha Agrawal	University of Berkeley	MSGB v3.0 Visualization	Genetic Epidemiology
2014 - 2014	You Fei Wang	University of Berkeley	Scripts for Electronic Medical Record	Epidemiology
2014 - 2014	Shihao Rex	University of Berkeley	Learning machine algorithms on Cohort data	Biostatistics
2014 - 2014	Clara Lateur	Faculte de Pharmacie de Lille, France	Electronic Medical Records systems and extractions	Epidemiology
2014 - 2014	Jia Yang	High School	HLA haplotype diversity on Excel	Genetics
2014 - 2015	Wendy Tang	University of Berkeley	PHI encryption and EMR data extraction	Epidemiology
2014 - 2015	Tiffany Chen	University of Berkeley	T25W extraction and EMR vs Research Consistency	Epidemiology
2014 - 2015	Wesley Marin	University of Berkeley	IDAWG website and web-tools	Bio informatics
2014 - 2015	Emilia Wiczorek	University of Berkeley	Research use of DTC genetic data	Genetic Epidemiology
2014 - 2015	Radikha Marvin	University of Berkeley	HLA analysis in emerging BMD registry in India	Immunogenetic
2014 - 2015	Michael Liang	University of Berkeley	Back-end database and knowledge infrastructure	Informatics
2014 - 2015	Michael Hittle	Stanford Alumni	MS research development	Management
2014 - 2014	Paul Duan	Bayesimpact.org	MS Digital research	Biostatistics
2014 - 2014	Daniel Korenblum	Bayesimpact.org	MS Digital research	Bio-statistics
2014 - 2015	Savannah Rae	University of Berkeley	ELSI issues related to ancestry and personalized medicine	Bioethics

POSTDOCTORAL FELLOWS AND RESIDENTS DIRECTLY SUPERVISED OR MENTORED

Dates	Name	Fellow	Faculty Role	Current Position
2013 - 2013	Deidre Jasper	Practicing Nurse	Supervisor	P.Nurse
2014 - 2015	Vincent Damotte	Post doctoal	Supervisor	Post-doc
2010 - 2012	Noriko Isobe	Post doctoral	Supervisor	Post-doc
2012 - 2012	Vincent Damotte	PhD Student	Supervisor	PhD Fellow
2013 - 2013	Scott Jarvis	Visting Scholar	Supervisor	MD
2014 - 2014	Valerie Block	Physical Therapy student	Co supervisor	PT

FACULTY MENTORING

Dates	Name	Position While Mentored	Mentoring Role	Current Position
2006 - 2007	Kazuiooshi	Hosomichi	PhD	Japan
2006 - 2007	Takashi	Shiina	PhD	Japan
2005 - 2006	Blanka	Vidan-Jeras	PhD	Serbe
2005 - 2006	Daisuke	Sumiyama	PhD	Japan
2006 - 2007	Eike	Morten	PhD	Norway
2006 - 2007	Nameg	Gry	PhD	Norway
2006 - 2007	Lie	Benedict	PhD	Norway
2007 - 2008	Said	Hella	Undergraduate	Tunisia
2007 - 2008	Alaa	Al Tahan	Undergraduate	Syria

OTHER VISITING FACULTY SUPERVISED

2011 - 2012 Pr Hanne Harbo Multiple Sclerosis (MS) research group at Oslo University Hospital (OUH), Oslo Norway

TEACHING AND MENTORING AIDS

- Introduction to Statistical test Syllabus for 3rd - 5th year medical students Faculty of Medicine Toulouse-Purpan France.
- Guide for taking the best start in Medical Thesis. Faculty of Medicine Toulouse, France
- Various contributions to the Toulouse Public Health residents' association website. <http://aispmp.free.fr/index.php>
- Pedagogic objective writing (> 2000 on-line views and downloads)

OTHER

- Medical Education program "C est pas Sorcier- le Sang" (about blood), 2001 France 3 / Riff International Production (Summer Internship Scientific issues) (~ 500,000 live views on TV - 60,000 views on You tube)

- Le dossier de l'atelier Numerique, étude des acteurs innovants à l'étranger #421. Le dossier réalisé par les équipes éditoriales de L'Atelier North America - 21 Avril 2012 , " Le role des nouvelles technologies dans la recherche et la pratique clinique a l'exemple de la Sclérose en plaques" (New technologies in research and medical practice for Multiple Sclerosis". 12 min 30, BFM Business.

- "Les Pouvoirs Extraordinaires du Corps Humain" - Le Cerveau (the Brain), 2014 France 2 / Elephant Production (Presenter (16 min) - 4 millions live views)

TEACHING AND MENTORING AWARDS AND NOMINATIONS

2010 Highest honors earned for his thesis and innovative teaching statistics methods in post-graduate Diploma of Medical Education Science

SUMMARY OF TEACHING AND MENTORING HOURS

2013 - 2014	120 total hours of teaching (including preparation) Formal class or course teaching hours: 0 hours Informal class or course teaching hours: 20 hours Mentoring hours: 80 hours Other hours (Non UC teaching activities): 20 hours
2014 - 2015	120 total hours of teaching (including preparation) Formal class or course teaching hours: 0 hours Informal class or course teaching hours: 20 hours Mentoring hours: 80 hours Other hours (Non UC teaching activities): 20 hours
2015 - 2016	Total anticipated hours of teaching: 120 hours

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AWARDS

CURRENT

A122511 (Co-Principal Investigator)	12/01/2013 - 11/30/2016
The Conrad H. Hilton Foundation	\$265,500 direct/yr1
Translational Digital Medicine for Multiple Sclerosis	\$796,500 total
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RO1 NS076792-01 (Co-Investigator)	08/15/2011 - 04/30/2015
NIH NINDS	\$USD 218,750 direct/yr1
The contribution of common and rare variants to autoimmunity in African Americans	\$USD 1,419,406 total

Pending (Principal Investigator)	06/15/2013 - 06/14/2015
UCSF Precision Medicine Initiatives	\$USD 50,000 direct/yr1
Neuroscience Precision Medicine Initiative- The MS Dashboard and Kbase knowledge network	\$USD 100,000 total

PAST

P0050189 (Co-Investigator)	06/01/2012 - 11/30/2012
ONR- Sub Award	\$USD 39,173 direct/yr1
IMMPUTE I : Comparative study of SNP-based HLA Imputation methods	\$USD 39,173 total

P0050229 (Sub-Contractor)	06/11/2012 - 11/30/2012
ONR- Sub Award	\$USD 12,211 direct/yr1
POPGEN I : Genetic diversity of HLA Haplotype for Haematopoietic stem cell transplantation	\$USD 12,211 total

PO0004453 (Sub-Contractor)	01/01/2013 - 06/30/2013
ONR- Sub Award	\$USD 12,210 direct/yr1
POPGEN II: Genetic diversity of HLA Haplotype for Haematopoietic stem cell transplantation	\$USD 12,210 total

PO00204454 (Co-Investigator)	01/01/2013 - 06/30/2013
ONR - Sub Award	\$USD 39,173 direct/yr1
IMMPUTE II : comparative study of methods for SNP based HLA Imputation	\$USD 39,173 total

A109685 (Co-Investigator)	01/01/2012 - 12/31/2013
Pzifer-QB3	\$100,000 direct/yr1
Immune repertoire in Multiple Sclerosis	\$200,000 total

Pending (Principal Investigator)	07/01/2013 - 06/30/2014
CTSI Catalyst Award in Mobile Health	\$USD 10,000 direct/yr1
Deployment of MS Bioscreen at UCSF Clinics	\$USD 10,000 total

PI-12-001 (Co-Principal Investigator)	01/01/2013 - 12/30/2014
Patient Centered Research Outcome Institute (PCORI)	\$USD 250,000 direct/yr1
A BioScreen for Multiple Sclerosis	\$USD 550,000 total

A121817 (Principal Investigator)	01/08/2013 - 01/08/2015
The Nancy Davis foundation for Multiple Sclerosis	\$USD 75,000 direct/yr1
MSGbV2.0, "Genetic Profiling of MS patients: The Multiple sclerosis genetic burden scoring methods compile the latest genetic associations' findings"	\$USD 150,000 total

pending (Co-investigator)	07/01/2014 - 12/31/2014
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National Science Foundation- SBIR	\$61600 direct/yr1
Commercialization potential of Personalized medicine prototype designed for MS	\$150000 total
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A109685 (Co-Investigator)	01/01/2012 - 12/31/2013
Pzifer-QB3	\$100,000 direct/yr1
Immune repertoire in Multiple Sclerosis	\$200,000 total
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Pending (Principal Investigator)	07/01/2013 - 06/30/2014
CTSI Catalyst Award in Mobile Health	\$USD 10,000 direct/yr1
Deployment of MS Bioscreen at UCSF Clinics	\$USD 10,000 total
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PEER REVIEWED PUBLICATIONS

1. Goris A, Pauwels I, Gustavsen MW, van Son B, Hilven K, Bos SD, Celius EG, Berg-Hansen P, Aarseth J, Myhr KM, D'Alfonso S, Barizzzone N, Leone MA, Martinelli Boneschi F, Sorosina M, Liberatore G, Kockum I, Olsson T, Hillert J, Alfredsson L, Bedri SK, Hemmer B, Buck D, Berthele A, Knier B, Biberacher V, van Pesch V, Sindic C, Bang Oturai A, Søndergaard HB, Sellebjerg F, Jensen PE, Comabella M, Montalban X, Pérez-Boza J, Malhotra S, Lechner-Scott J, Broadley S, Slee M, Taylor B, Kermode AG, **Gourraud PA**; International Multiple Sclerosis Genetics Consortium, Sawcer SJ, Andreassen BK, Dubois B, Harbo HF. Genetic variants are major determinants of CSF antibody levels in multiple sclerosis. *Brain*. 2015 Jan 22. In press (IF-10.23)
2. N Isobe, L Madireddy, P Khankhanian, T Matsushita, S Caillier, J Moré, **PA Gourraud**, JL McCauley, A Beecham, International Multiple Sclerosis Genetics Consortium, L Piccio, J Herbert, O Khan, J Cohen, BC Cree, S Onengut-Gumuscu, SS. Rich, SL. Hauser, S Sawcer, JR. Oksenberg An ImmunoChip study of multiple sclerosis risk in African Americans *Brain* 2015 In press (IF-10.23)
3. P Khankhanian, L Din, SJ Caillier, **PA Gourraud**, SE Baranzini SNP imputation bias reduces effect size determination *Front. Genet. - Statistical Genetics and Methodology* 2015 In Press
4. **PA Gourraud**, Pappas J Derek, Federico Garnier, Evelyne Marry High-resolution HLA-A, HLA-B, and HLA-DRB1 haplotype frequencies from the French Bone Marrow Donor Registry *Human Immunology* 2015 In Press (IF-2.8)
5. Derek James Pappas, Alannah Tomich, Federico Garnier, Evelyne Marry, **PA Gourraud** Comparison of high-resolution human leukocyte antigen haplotype frequencies in different ethnic groups: consequences of sampling fluctuation and haplotype frequency distribution tail truncation *Human Immunology* 2015 In Press (IF-2.8)
6. Pino-Yanes M, Gignoux CR, Galanter JM, Levin AM, Campbell CD, Eng C, Huntsman S, Nishimura KK, **Gourraud PA**, Mohajeri K, O'Roak BJ, Hu D, Mathias RA, Nguyen EA, Roth LA, Padhukasahasram B, Moreno-Estrada A, Sandoval K, Winkler CA, Lurmann F, Davis A, Farber HJ, Meade K, Avila PC, Serebrisky D, Chapela R, Ford JG, Lenoir MA, Thyne SM, Brigino-Buenaventura E, Borrell LN, Rodriguez-Cintrón W, Sen S, Kumar R, Rodriguez-Santana JR,

Bustamante CD, Martinez FD, Raby BA, Weiss ST, Nicolae DL, Ober C, Meyers DA, Bleecker ER, Mack SJ, Hernandez RD, Eichler EE, Barnes KC, Williams LK, Torgerson DG, Burchard EG. Genome-wide association study and admixture mapping reveal new loci associated with total IgE levels in Latinos. *J Allergy Clin Immunol*. 2014 Dec 6. In press (IF-11.25)

7. **Gourraud PA**, Henry RG, Cree BA, Crane JC, Lizee A, Olson MP, Santaniello AV, Datta E, Zhu AH, Bevan CJ, Gelfand JM, Graves JS, Goodin DS, Green AJ, von Büdingen HC, Waubant E, Zamvil SS, Crabtree-Hartman E, Nelson S, Baranzini SE, Hauser SL. Precision medicine in chronic disease management: The multiple sclerosis BioScreen. *Ann Neurol*. 2014 Nov; 76(5):633-42. PMID: 25263997. PMCID: PMC4214886 (IF-11.91)

8. Madbouly A, Gragert L, Freeman J, Leahy N, **Gourraud PA**, Hollenbach JA, Kamoun M, Fernandez-Vina M, Maiers M. Validation of statistical imputation of allele-level multilocus phased genotypes from ambiguous HLA assignments. *Tissue Antigens*. 2014 Sep; 84(3):285-292. PMID: 25040134 (IF-2.35)

9. **Gourraud PA**, Khankhanian P, Cereb N, Yang SY, Feolo M, Maiers M, D Rioux J, Hauser S, Oksenberg J. HLA Diversity in the 1000 Genomes Dataset. *PLoS One*. 2014; 9(7):e97282. PMID: 24988075. PMCID: PMC4079705 (IF-3.53)

10. Baranzini SE, Khankhanian P, [...] Goris A, **Gourraud PA**, Graetz C, [...] Sawcer S, DeJager P, Hauser SL, Oksenberg JR Network-Based Multiple Sclerosis Pathway Analysis with GWAS Data from 15,000 Cases and 30,000 Controls. *Am J Hum Genet*. 2013 Jun 6;92(6):854-65. PMID:23731539 (IF-10.99)

11. **Gourraud PA**, Balère ML, Faucher C, Loiseau P, Dormoy A, Marry E, Garnier F. HLA phenotypes of candidates for HSCT: comparing transplanted versus non-transplanted candidates, resulting in the predictive estimation of the probability to find a 10/10 HLA matched donor. *Tissue Antigens*. 2014 Jan; 83(1):17-26. PMID: 24355004 (IF-2.35)

12. Beecham AH, [...] Gieger C, **Gourraud PA**, Graetz C, [...] De Jager P, Sawcer SJ, McCauley JL. Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis. *Nat Genet*. 2013 Nov; 45(11):1353-60. PMID: 24076602 (IF-29.65)

13. Harbo HF, Isobe N, Berg-Hansen P, Bos SD, Caillier SJ, Gustavsen MW, Mero IL, Celius EG, Hauser SL, Oksenberg JR, **Gourraud PA**. Oligoclonal bands and age at onset correlate with genetic risk score in multiple sclerosis. *Mult Scler*. 2013 Oct 7. PMID: 24099750 (IF-4.86)

14. Patsopoulos NA, Barcellos LF, Hintzen RQ, Schaefer C, van Duijn CM, Noble JA, Raj T. , GeneMSA, ANZgene, **Gourraud PA**, Stranger B, Benoist C, Oksenberg J, Olsson T, Taylor BrV ,Sawcer S , Hafler DA, Carrington M,De Jager PL, de Bakker PW. Fine-Mapping the Genetic Association of the Major Histocompatibility Complex in Multiple Sclerosis: HLA and Non-HLA Effects. *PLoS Genet*. 2013 Nov; 9(11):e1003926. PMID: 24278027 (IF-8.17)

15. Isobe N, Damotte V, Lo Re V, Ban M, Pappas D, Guillot-Noel L, Rebeix I, Compston A, Mack T, Cozen W, Fontaine B, Hauser SL, Oksenberg JR, Sawcer S, **Gourraud PA**. Genetic burden in multiple sclerosis families. *Genes Immun*. 2013 Aug 1. PMID: 23903824 (IF-3.79)

16. **Gourraud PA**, Sdika M, Khankhanian P, Henry RG, Beheshtian A, Matthews PM, Hauser SL, Oksenberg JR, Pelletier D, Baranzini SE. A genome-wide association study of brain lesion distribution in multiple sclerosis. *Brain*. 2013 Apr; 136(Pt 4):1012-24. PMID: 23412934 (IF-10.22)

17. Mabile L, Dalgleish R, Thorisson GA, Deschênes M, Hewitt R, Carpenter J, Bravo E, Filocamo M, **Gourraud PA**, Harris JR, Hofman P, Kauffmann F, Muñoz-Fernández MA, Pasterk M, Cambon-Thomsen A. Quantifying the use of bioresources for promoting their sharing in scientific research. *Gigascience*. 2013; 2(1):7. PMID: 23634721 (IF- NA)
18. P. Ducournau; **PA Gourraud**; E. Rial-Sebbag, A. Cambon-Thomsen, A. Bulle Direct-to-consumer health genetic testing services: What commercial strategies for which socio-ethical issues? *Health Sociology Review* 2013, Vol. 22, No. 1: 75–87 (IF- NA)
19. Li M, Zhang H, Luo XJ, Gao L, Qi XB, **Gourraud PA**, Su B. Meta-Analysis Indicates That the European GWAS-Identified Risk SNP rs1344706 within ZNF804A Is Not Associated with Schizophrenia in Han Chinese Population. *PLoS One*. 2013; 8(6):e65780. PMID: 23776546 (IF- 3.53)
20. Gourraud PA, Harbo HF, Hauser SL, Baranzini SE. The genetics of multiple sclerosis: an up-to-date review. *Immunol Rev*. 2012 Jul; 248(1):87-103. PMID: 22725956 (IF- 12.9)
21. Eberhard HP, Madbouly AS, **Gourraud PA**, Balère ML, Feldmann U, Gragert L, Maldonado Torres H, Pingel J, Schmidt AH, Steiner D, van der Zanden HG, Oudshoorn M, Marsh SG, Maiers M, Müller CR. Comparative validation of computer programs for haplotype frequency estimation from donor registry data. *Tissue Antigens*. 2013 Aug; 82(2):93-105. PMID: 23849067 (IF- 2.35)
22. Isobe N, **Gourraud PA**, Harbo HF, Caillier SJ, Santaniello A, Khankhanian P, Maiers M, Spellman S, Cereb N, Yang S, Pando MJ, Piccio L, Cross AH, De Jager PL, Cree BA, Hauser SL, Oksenberg JR. Genetic risk variants in African Americans with multiple sclerosis. *Neurology*. 2013 Jun 14. PMID: 23771490 (IF- 8.25)
23. Maiers M, Gragert L, Madbouly A, Steiner D, Marsh SG, **Gourraud PA**, Oudshoorn M, van der Zanden H, Schmidt AH, Pingel J, Hofmann J, Müller C, Eberhard HP. 16(th) IHIW: Global analysis of registry HLA haplotypes from 20 Million individuals: Report from the IHIW Registry Diversity Group. *Int J Immunogenet*. 2013 Feb; 40(1):66-71. PMID: 23280139 (IF- 1.34)
24. Escande H, Livideanu CB, Steiner A, Lahfa M, Marguery MC, Mazereeuw JH, Meyer N, Labadie FG, Aquilina C, Viraben R, **Gourraud PA**, Paul C. Incidence and risk factors for treatment failure with infliximab in psoriasis. *J Eur Acad Dermatol Venereol*. 2013 Jan 7. PMID: 23294258 (IF- 3.11)
25. McElroy J, Krupp L, Johnson B, McCauley J, Qi Z, Caillier S, **Gourraud P**, Yu J, Nathanson L, Belman A, Hauser S, Waubant E, Hedges D, Oksenberg J. Copy number variation in pediatric multiple sclerosis. *Mult Scler*. 2012 Dec 13. PMID: 23239789 (IF- 4.86)
26. **Gourraud PA**, Le Gall C, Puzenat E, Aubin F, Ortonne JP, Paul CF. Why statistics matter: limited inter-rater agreement prevents using the psoriasis area and severity index as a unique determinant of therapeutic decision in psoriasis. *J Invest Dermatol*. 2012 Sep; 132(9):2171-5. (IF- 6.37)
27. Bachet JB, Peuvrel L, Bachmeyer C, Reguiat Z, **Gourraud PA**, Bouché O, Ychou M, Bensadoun RJ, Dreno B, André T. Folliculitis Induced by EGFR Inhibitors, Preventive and Curative Efficacy of Tetracyclines in the Management and Incidence Rates According to the Type of EGFR Inhibitor Administered: A Systematic Literature Review. *Oncologist*. 2012; 17(4):555-68. (IF- 4.10)

28. Mowry EM, Waubant E, McCulloch CE, Okuda DT, Evangelista AA, Lincoln RR, **Gourraud PA**, Brenneman D, Owen MC, Qualley P, Bucci M, Hauser SL, Pelletier D. Vitamin D status predicts new brain magnetic resonance imaging activity in multiple sclerosis. *Ann Neurol*. 2012 Aug; 72(2):234-40. (IF- 11.91)
29. von Büdingen HC, Kuo TC, Sirota M, van Belle CJ, Apeltsin L, Glanville J, Cree BA, **Gourraud PA**, Schwartzburg A, Huerta G, Telman D, Sundar PD, Casey T, Cox DR, Hauser SL. B cell exchange across the blood-brain barrier in multiple sclerosis. *J Clin Invest*. 2012 Dec 3; 122(12):4533-43. PMID: 23160197 (IF- 13.76)
30. Hollenbach JA, Mack SJ, Thomson G, **Gourraud PA**. Analytical methods for disease association studies with immunogenetic data. *Methods Mol Biol*. 2012; 882:245-66. PMID: 22665238 (IF- 1.29)
31. Degos V, **Gourraud PA**, Tursis VT, Whelan R, Colonne C, Korinek AM, Clarençon F, Boch AL, Nouet A, Young WL, Apfel CC, Puybasset L. Elderly age as a prognostic marker of 1-year poor outcome for subarachnoid hemorrhage patients through its interaction with admission hydrocephalus. *Anesthesiology*. 2012 Dec; 117(6):1289-99. PMID: 22854979 (IF- 6.17)
32. Lourari S, Paul C, **Gourraud PA**, Tavitian S, Viraben R, Leccia MT, Saiag P, Lebbe C, Meyer N. Sentinel lymph node biopsy for melanoma is becoming a consensus: a national survey of French centres involved in melanoma care in 2008. *J Eur Acad Dermatol Venereol*. 2012 Oct; 26(10):1230-5. PMID: 21929549 (IF- 3.11)
33. Degos V, Apfel CC, Sanchez P, Colonne C, Renuit I, Clarençon F, Nouet A, Boch AL, Pourmohamad T, Kim H, **Gourraud PA**, Young WL, Puybasset L. An admission bioclinical score to predict 1-year outcomes in patients undergoing aneurysm coiling. *Stroke*. 2012 May; 43(5):1253-9. PMID: 22363051 (IF- 6.02)
34. **Gourraud PA**, Gilson L, Girard M, Peschanski M. The role of human leukocyte antigen matching in the development of multiethnic Stem Cells. 2012 Feb;30(2):180-6 PMID:22045598 (IF- 7.33)
35. Mack SJ, **Gourraud PA**, Single RM, Thomson G, Hollenbach JA. Analytical methods for immunogenetic population data. *Methods Mol Biol*. 2012; 882:215-44. PMID:22665237 (IF- 1.29)
36. Cozen W, Li D, Best T, Van Den Berg DJ, **Gourraud PA**, Cortessis VK, Skol AD, Mack TM, Glaser SL, Weiss LM, Nathwani BN, Bhatia S, Schumacher FR, Edlund CK, Hwang AE, Slager SL, Fredericksen ZS, Strong LC, Habermann TM, Link BK, Cerhan JR, Robison LL, Conti DV, Onel K. A genome-wide meta-analysis of nodular sclerosing Hodgkin lymphoma identifies risk loci at 6p21.32. *Blood*. 2012 Jan 12; 119(2):469-75. PMID: 22086417 (IF- 9.78)
37. **Gourraud PA**, Hollenbach JA, Barnette T, Single RM, Mack SJ. Standard methods for the management of immunogenetic data. *Methods Mol Biol*. 2012; 882:197-213. PMID: 22665236 (IF- 1.29)
38. Funk WD, Labat I, Sampathkumar J, **Gourraud PA**, Oksenberg JR, Rosler E, Steiger D, Sheibani N, Caillier S, Stache-Crain B, Johnson JA, Meisner L, Lacher MD, Chapman KB, Park MJ, Shin KJ, Drmanac R, West MD. Evaluating the genomic and sequence integrity of human ES cell lines; comparison to normal genomes. *Stem Cell Res*. 2012 Mar; 8(2):154-64. PMID: 22265736 (IF- 4.63)

39. Bronsard V, Paul C, Prey S, Puzenat E, **Gourraud PA**, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. What are the best outcome measures for assessing quality of life in plaque type psoriasis? A systematic review of the literature. *J Eur Acad Dermatol Venereol*. 2010 Apr; 24 Suppl 2:17-22. PMID: 20443996 (IF- 3.11)
40. Puzenat E, Bronsard V, Prey S, **Gourraud PA**, Aractingi S, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Paul C, Richard-Lallemand MA, Ortonne JP, Aubin F. What are the best outcome measures for assessing plaque psoriasis severity? A systematic review of the literature. *J Eur Acad Dermatol Venereol*. 2010 Apr; 24 Suppl 2:10-6. PMID: 20443995 (IF- 3.11)
41. Pouplard C, **Gourraud PA**, Meyer N, Livideanu CB, Lahfa M, Mazereeuw-Hautier J, Le Jeune P, Sabatini AL, Paul C. Are we giving patients enough information on how to use topical treatments? Analysis of 767 prescriptions in psoriasis. *Br J Dermatol*. 2011 Dec; 165(6):1332-6. PMID: 21711325 (IF- 4.10)
42. Quintyn JC, Soler P, Fostier P, **Gourraud PA**, Lagarrigue J. [When the pupil becomes the teacher]. *J Fr Ophtalmol*. 2011 Oct; 34(8):521-5. PMID: 21664716 (IF- 0.51)
43. **Gourraud PA**. When is the absence of evidence, evidence of absence? Use of equivalence-based analyses in genetic epidemiology and a conclusion for the KIF1B rs10492972*C allelic association in multiple sclerosis. *Genet Epidemiol*. 2011 Sep; 35(6):568-71. PMID: 21594895 (IF- 2.95)
44. McElroy JP, Isobe N, **Gourraud PA**, Caillier SJ, Matsushita T, Kohriyama T, Miyamoto K, Nakatsuji Y, Miki T, Hauser SL, Oksenberg JR, Kira J. SNP-based analysis of the HLA locus in Japanese multiple sclerosis patients. *Genes Immun*. 2011 Oct; 12(7):523-30. PMID: 21654846 (IF- 3.79)
45. Hollenbach JA, Mack SJ, **Gourraud PA**, Single RM, Maiers M, Middleton D, Thomson G, Marsh SG, Varney MD. A community standard for immunogenomic data reporting and analysis: proposal for a STrengthening the REporting of Immunogenomic Studies statement. *Tissue Antigens*. 2011 Nov; 78(5):333-44. PMID: 21988720 (IF-2.35)
46. **Gourraud PA**, Karaouni A, Woo JM, Schmidt T, Oksenberg JR, Hecht FM, Liegler TJ, Barbour JD. APOBEC3H haplotypes and HIV-1 pro-viral vif DNA sequence diversity in early untreated human immunodeficiency virus-1 infection. *Hum Immunol*. 2011 Mar; 72(3):207-12. PMID: 21167246 (IF- 2.48)
47. Textoris J, Loriod B, Benayoun L, **Gourraud PA**, Puthier D, Albanèse J, Mantz J, Martin C, Nguyen C, Leone M. An evaluation of the role of gene expression in the prediction and diagnosis of ventilator-associated pneumonia. *Anesthesiology*. 2011 Aug; 115(2):344-52. PMID: 21796056 (IF- 6.17)
48. Boyer JF, **Gourraud PA**, Cantagrel A, Davignon JL, Constantin A. Traditional cardiovascular risk factors in rheumatoid arthritis: a meta-analysis. *Joint Bone Spine*. 2011 Mar; 78(2):179-83. PMID: 20851020 (IF- 3.22)
49. Laroumagne S, Salinas-Pineda A, Hermant C, Murriss M, **Gourraud PA**, Do C, Segonds C, Didier A, Mazières J. [Incidence and characteristics of bronchial colonisation in patient with lung cancer: a retrospective study of 388 cases]. *Rev Mal Respir*. 2011 Mar; 28(3):328-35. PMID: 21482336 (IF- 0.49)

50. Quintyn JC, Fostier P, **Gourraud PA**, Payoux P, Lagarrigue J. [PowerVote: an evaluation tool]. *J Fr Ophtalmol*. 2011 Jan; 34(1):30-4. PMID: 21112122 (IF-0.51)
51. Prey S, Paul C, Bronsard V, Puzenat E, **Gourraud PA**, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Maitre ML, Richard-Lallemand MA, Ortonne JP. Assessment of risk of psoriatic arthritis in patients with plaque psoriasis: a systematic review of the literature. *J Eur Acad Dermatol Venereol*. 2010 Apr; 24 Suppl 2:31-5. PMID: 20443998 (IF- 3.11)
52. Paul C, **Gourraud PA**, Bronsard V, Prey S, Puzenat E, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. Evidence-based recommendations to assess psoriasis severity: systematic literature review and expert opinion of a panel of dermatologists. *J Eur Acad Dermatol Venereol*. 2010 Apr; 24 Suppl 2:2-9. PMID: 20443994 (IF- 3.11)
53. **Gourraud PA**, McElroy JP, Caillier SJ, Johnson BA, Santaniello A, Hauser SL, Oksenberg JR. Aggregation of multiple sclerosis genetic risk variants in multiple and single case families. *Ann Neurol*. 2011 Jan; 69(1):65-74. PMID: 21280076 (IF- 11.91)
54. Ducournau P, **Gourraud PA**, Rial-Sebbag E, Bulle A, Cambon-Thomsen A. [Direct-to-consumer genetic testing through Internet: marketing, ethical and social issues]. *Med Sci (Paris)*. 2011 Jan; 27(1):95-102. PMID: 21299969 (IF- 0.56)
55. **Gourraud PA**, Meenagh A, Cambon-Thomsen A, Middleton D. Linkage disequilibrium organization of the human KIR superlocus: implications for KIR data analyses. *Immunogenetics*. 2010 Dec; 62(11-12):729-40. PMID: 20878401 (IF- 2.49)
56. Gomez-Brouchet A, Mourcin F, **Gourraud PA**, Bouvier C, De Pinieux G, Le Guelec S, Brousset P, Delisle MB, Schiff C. Galectin-1 is a powerful marker to distinguish chondroblastic osteosarcoma and conventional chondrosarcoma. *Hum Pathol*. 2010 Sep; 41(9):1220-30. PMID: 20399482 (IF- 1.38)
57. McElroy JP, Cree BA, Caillier SJ, Gregersen PK, Herbert J, Khan OA, Freudenberg J, Lee A, Bridges SL, Hauser SL, Oksenberg JR, **Gourraud PA**. Refining the association of MHC with multiple sclerosis in African Americans. *Hum Mol Genet*. 2010 Aug 1; 19(15):3080-8. PMID: 20466734 (IF- 6.68)
58. Johnson BA, Wang J, Taylor EM, Caillier SJ, Herbert J, Khan OA, Cross AH, De Jager PL, **Gourraud PA**, Cree BC, Hauser SL, Oksenberg JR. Multiple sclerosis susceptibility alleles in African Americans. *Genes Immun*. 2010 Jun; 11(4):343-50. PMID: 19865102 (IF- 3.79)
59. **Gourraud PA**, Feolo M. The Babel Tower revisited: SNPs - Indels - CNVs. Confusion in naming sequence variant always rises from ashes. *Tissue Antigens*. 2010 Mar; 75(3):199-200. PMID: 20030785 (IF- 2.35)
60. Benouaich V, Soler P, **Gourraud PA**, Lopez S, Rousseau H, Marcheix B. Impact of meteorological conditions on the occurrence of acute type A aortic dissections. *Interact Cardiovasc Thorac Surg*. 2010 Mar; 10(3):403-6. PMID: 20008897 (IF- 3.99)
61. Sagnes-Raffy C, **Gourraud PA**, Hannon V, Bourrel R, Laffontan MA, Gaulene MC, Viala F, Clanet M. [Multiple sclerosis in Haute-Garonne: an important underestimation of case numbers]. *Rev Epidemiol Sante Publique*. 2010 Feb; 58(1):23-31. PMID: 20106619 (IF- 0.66)

62. Pillaire MJ, Selves J, Gordien K, **Gourraud PA**, Gentil C, Danjoux M, Do C, Negre V, Bieth A, Guimbaud R, Trouche D, Pasero P, Méchali M, Hoffmann JS, Cazaux C. A 'DNA replication' signature of progression and negative outcome in colorectal cancer. *Oncogene*. 2010 Feb 11; 29(6):876-87. PMID: 19901968 (IF- 8.56)
63. Prey S, Paul C, Bronsard V, Puzenat E, **Gourraud PA**, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. Cardiovascular risk factors in patients with plaque psoriasis: a systematic review of epidemiological studies. *J Eur Acad Dermatol Venereol*. 2010 Apr; 24 Suppl 2:23-30. PMID: 20443997 (IF- 3.11)
64. Cree BA, Rioux JD, McCauley JL, **Gourraud PA**, Goyette P, McElroy J, De Jager P, Santaniello A, Vyse TJ, Gregersen PK, Mirel D, Hafler DA, Haines JL, Pericak-Vance MA, Compston A, Sawcer SJ, Oksenberg JR, Hauser SL. A major histocompatibility Class I locus contributes to multiple sclerosis susceptibility independently from HLA-DRB1*15:01. *PLoS One*. 2010; 5(6):e11296. PMID: 20593013 (IF- 3.53)
65. Khankhanian P, **Gourraud PA**, Caillier SJ, Santaniello A, Hauser SL, Baranzini SE, Oksenberg JR. Genetic variation in the odorant receptors family 13 and the mhc loci influence mate selection in a multiple sclerosis dataset. *BMC Genomics*. 2010; 11:626. PMID: 21067613 (IF- 4.04)
66. Paul CF, **Gourraud PA**. Cancer risk evaluation in psoriasis: in search of the Holy Grail? *J Invest Dermatol*. 2009 Nov; 129(11):2547-9. PMID: 19826447 (IF- 6.37)
67. Alvarez F, Meyer N, **Gourraud PA**, Paul C. CONSORT adoption and quality of reporting of randomized controlled trials: a systematic analysis in two dermatology journals. *Br J Dermatol*. 2009 Nov; 161(5):1159-65. PMID: 19681881 (IF- 4.10)
68. Couturier N, **Gourraud PA**, Cournu-Rebeix I, Gout C, Bucciarelli F, Edan G, Babron MC, Clerget-Darpoux F, Clanet M, Fontaine B, Brassat D. IFIH1-GCA-KCNH7 locus is not associated with genetic susceptibility to multiple sclerosis in French patients. *Eur J Hum Genet*. 2009 Jun; 17(6):844-7. PMID: 19156166 (IF- 4.23)
69. Middleton D, Diler AS, Meenagh A, Sleator C, **Gourraud PA**. Killer immunoglobulin-like receptors (KIR2DL2 and/or KIR2DS2) in presence of their ligand (HLA-C1 group) protect against chronic myeloid leukaemia. *Tissue Antigens*. 2009 Jun; 73(6):553-60. PMID: 19493232 (IF- 2.35)
70. Mattera L, Escaffit F, Pillaire MJ, Selves J, Tyteca S, Hoffmann JS, **Gourraud PA**, Chevillard-Briet M, Cazaux C, Trouche D. The p400/Tip60 ratio is critical for colorectal cancer cell proliferation through DNA damage response pathways. *Oncogene*. 2009 Mar 26; 28(12):1506-17. PMID: 19169279 (IF- 8.56)
71. Brondello JM, Pillaire MJ, Rodriguez C, **Gourraud PA**, Selves J, Cazaux C, Piette J. Novel evidences for a tumor suppressor role of Rev3, the catalytic subunit of Pol zeta. *Oncogene*. 2008 Oct 16; 27(47):6093-101. PMID: 18622427 (IF- 8.56)
72. Bureau C, Metivier S, Peron JM, Selves J, Robic MA, **Gourraud PA**, Rouquet O, Dupuis E, Alric L, Vinel JP. Transient elastography accurately predicts presence of significant portal hypertension in patients with chronic liver disease. *Aliment Pharmacol Ther*. 2008 Jun; 27(12):1261-8. PMID: 18397389 (IF- 5.48)

73. Barnetche T, Constantin A, Cantagrel A, Cambon-Thomsen A, **Gourraud PA**. New classification of HLA-DRB1 alleles in rheumatoid arthritis susceptibility: a combined analysis of worldwide samples. *Arthritis Res Ther*. 2008; 10(1):R26. PMID: 18307784 (IF- 4.12)
74. Middleton D, Meenagh A, Sleator C, **Gourraud PA**, Ayna T, Tozkir H, Köse AA, Azizleri G, Diler AS. No association of KIR genes with Behcet's disease. *Tissue Antigens*. 2007 Nov; 70(5):435-8. PMID: 17868255 (IF- 2.35)
75. Middleton D, Meenagh A, **Gourraud PA**. KIR haplotype content at the allele level in 77 Northern Irish families. *Immunogenetics*. 2007 Feb; 59(2):145-58. PMID: 17200871 (IF- 2.49)
76. **Gourraud PA**, Hoffman D, Cambon-Thomsen A, Feolo M. 14th International HLA and Immunogenetics Workshop: report on mapping microsatellite markers in the major histocompatibility complex region. *Tissue Antigens*. 2007 Apr; 69 Suppl 1:206-9. PMID: 17445202 (IF- 2.35)
77. **Gourraud PA**, Dieudé P, Boyer JF, Nogueira L, Cambon-Thomsen A, Mazières B, Cornélis F, Serre G, Cantagrel A, Constantin A. A new classification of HLA-DRB1 alleles differentiates predisposing and protective alleles for autoantibody production in rheumatoid arthritis. *Arthritis Res Ther*. 2007; 9(2):R27. PMID: 17328818 (IF- 4.12)
78. **Gourraud PA**, Cambon-Thomsen A, Dauber EM, Feolo M, Hansen J, Mickelson E, Single RM, Thomsen M, Mayr WR. Nomenclature for HLA microsatellites. *Tissue Antigens*. 2007 Apr; 69 Suppl 1:210-3. PMID: 17445203 (IF- 2.35)
79. **Gourraud PA**, Gagne K, Bignon JD, Cambon-Thomsen A, Middleton D. Preliminary analysis of a KIR haplotype estimation algorithm: a simulation study. *Tissue Antigens*. 2007 Apr; 69 Suppl 1:96-100. PMID: 17445177 (IF- 2.35)
80. Feve F, Cambon-Thomsen A, Eliaou JF, **Gourraud PA**, Raffoux C, Florens JP. [Economic evaluation of the organization of a registry of haematopoietic stem cell donors]. *Rev Epidemiol Sante Publique*. 2007 Aug; 55(4):275-84. PMID: 17597327 (IF- 0.66)
81. Barnetche T, Constantin A, **Gourraud PA**, Abbal M, Garnier JG, Cantagrel A, Cambon-Thomsen A. Microsatellite typing of the human leucocyte antigen region: analytical approach and contribution to rheumatoid arthritis immunogenetic studies. *Tissue Antigens*. 2006 Nov; 68(5):390-8. PMID: 17092252 (IF-2.35)
82. **Gourraud PA**, Boyer JF, Barnetche T, Abbal M, Cambon-Thomsen A, Cantagrel A, Constantin A. A new classification of HLA-DRB1 alleles differentiates predisposing and protective alleles for rheumatoid arthritis structural severity. *Arthritis Rheum*. 2006 Feb; 54(2):593-9. PMID: 16447236 (IF- 7.87)
83. **Gourraud PA**, Feolo M, Hoffman D, Helmsberg W, Cambon-Thomsen A. The dbMHC microsatellite portal: a public resource for the storage and display of MHC microsatellite information. *Tissue Antigens*. 2006 May; 67(5):395-401. PMID: 16671947 (IF- 2.35)
84. **Gourraud PA**, Barnetche T, Vidan-Jeras B, Cambon-Thomsen A. Introduction to statistical analysis of population data in immunogenetics. *Transpl Immunol*. 2005 Aug; 14(3-4):245-53. PMID: 15982569 (IF- 1.83)

85. **Gourraud PA**, Lamiroux P, El-Kadhi N, Raffoux C, Cambon-Thomsen A. Inferred HLA haplotype information for donors from hematopoietic stem cells donor registries. *Hum Immunol*. 2005 May; 66(5):563-70. PMID: 15935894 (IF- 2.48)
86. Denis L, Sivula J, **Gourraud PA**, Kerdudou N, Chout R, Ricard C, Moisan JP, Gagne K, Partanen J, Bignon JD. Genetic diversity of KIR natural killer cell markers in populations from France, Guadeloupe, Finland, Senegal and Réunion. *Tissue Antigens*. 2005 Oct; 66(4):267-76. PMID: 16185321 (IF- 2.35)
87. Barnetche T, **Gourraud PA**, Cambon-Thomsen A. Strategies in analysis of the genetic component of multifactorial diseases; biostatistical aspects. *Transpl Immunol*. 2005 Aug; 14(3-4):255-66. PMID: 15982570 (IF- 1.83)
88. **Gourraud PA**, Mano S, Barnetche T, Carrington M, Inoko H, Cambon-Thomsen A. Integration of microsatellite characteristics in the MHC region: a literature and sequence based analysis. *Tissue Antigens*. 2004 Nov; 64(5):543-55. PMID: 15496197 (IF- 2.35)
89. **Gourraud PA**, Génin E, Cambon-Thomsen A. Handling missing values in population data: consequences for maximum likelihood estimation of haplotype frequencies. *Eur J Hum Genet*. 2004 Oct; 12(10):805-12. PMID: 15252420 (IF- 2.35)
90. Cambon-Thomsen A, Ducournau P, **Gourraud PA**, Pontille D. Biobanks for genomics and genomics for biobanks. *Comp Funct Genomics*. 2003; 4(6):628-34. PMID: 18629026 (IF- 1.75)

Review Articles

1. Gourraud PA, Harbo HF, Hauser SL, Baranzini SE. The genetics of multiple sclerosis: an up-to-date review. *Immunol Rev*. 2012 Jul; 248(1):87-103.
2. Prey S, Paul C, Bronsard V, Puzenat E, Gourraud PA, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. "Assessment of risk of psoriatic arthritis in patients with plaque psoriasis: a systematic review of the literature." *Journal of the European Academy of Dermatology and Venereology* 2010;24:31-35.
3. Prey S, Paul C, Bronsard V, Puzenat E, Gourraud PA, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. "Cardiovascular risk factors in patients with plaque psoriasis: a systematic review of epidemiological studies." *Journal of the European Academy of Dermatology and Venereology* 2010;24:23-30.
4. Bronsard V, Paul C, Prey S, Puzenat E, Gourraud PA, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. "What are the best outcome measures for assessing quality of life in plaque type psoriasis? A systematic review of the literature." *Journal of the European Academy of Dermatology and Venereology* 2010;24:17-22.
5. Puzenat E, Bronsard V, Prey S, Gourraud PA, Aractingi S, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Paul C, Richard-Lallemand MA, Ortonne JP, Aubin F. "What are the best outcome measures for assessing plaque psoriasis severity? A systematic review of the literature." *Journal of the European Academy of Dermatology and Venereology* 2010;24:10-16.
6. Paul C, Gourraud PA, Bronsard V, Prey S, Puzenat E, Aractingi S, Aubin F, Bagot M, Cribier B, Joly P, Jullien D, Le Maitre M, Richard-Lallemand MA, Ortonne JP. "Evidence-based

recommendations to assess psoriasis severity: systematic literature review and expert opinion of a panel of dermatologists." *Journal of the European Academy of Dermatology and Venereology* 2010;24:2-9

Books and Chapters

1. Single RM, Gourraud PA, Lancaster AK, Briggs F, Barcellos LF, Hollenbach JA, Mack SJ, Thomson G. "Haplotype Estimation and Linkage Disequilibrium Methods Manual." Available online at: The Immunology Database and Analysis Portal: <https://www.immport.org> 2011.
2. Thomson G, Mack SJ, Valdes AM, Barcellos LF, Gourraud PA, Hollenbach JA, Helmberg WA, Single RM. "HLA Disease Associations: Detecting Primary and Secondary Disease Predisposing Genes." Available online at: The Immunology Database and Analysis Portal: <https://www.immport.org> 2011.
3. Middleton D, Gonzalez-Galarza F, Meenagh A, Gourraud PA. Diversity of KIR Genes, Alleles and Haplotypes. In: Zimmer J, ed. *Natural Killer Cells*. Berlin: Springer-Verlag; 2009:63-91.
4. El-Zant N, El-Kadhi N, Gourraud PA. "Extension and Use of KMRCRelat algorithm for Biological Problem." *Journal of Computational Methods in Sciences and Engineering V 6, Numbers 5,6 2006 Supplement 2*
5. Gourraud PA. "Immunogenetic parameters for bone marrow donor selection." *EFI newsletter* 2005;1.
6. Gourraud PA. "UTILISATION D'ANALYSES D'HAPLOTYPES DANS L'ORGANISATION DE LA TRANSPLANTATION DE CELLULES SOUCHES HEMATOPOÏÏTIQUES " PhD Thesis, TOULOUSE III University - September 12th 2005; directed by A Cambon-Thomsen, JP Florens.
7. Gourraud PA. "Statistical Data Analysis in Population Studies." *EFI newsletter* 2003;1:21-22.
8. Gourraud PA. "Statistical Data Analysis in Population Studies." *EFI newsletter* Cambon-Thomsen A, Gourraud PA, Froger P, Thomsen M. HLA region Microsatellite typing: historical view, 12th IHW experience and follow up studies. Future directions. In: Hansen J, Dupont B, eds. *HLA 2002, Immunobiology of the human MHC*. Seattle: IHWC Press; 2002:In press.003;1:21-22.
9. Gourraud PA. Influence du traitement des données manquantes dans l'estimation de fréquences haplotypiques par maximum de vraisemblance [Mémoire de DEA]. Paris: Université Paris XI co-habilité Paris I, Paris V, EHESS Paris; 2002.
10. Gourraud PA. "Use and application of bone marrow worldwide Registry." *EFI newsletter* 2001;1:23-24.

Other Publications

1. Hollenbach JA, Mack SJ, Gourraud PA, Single RM, Maiers M, Middleton D, Thomson G, Marsh SG, Varney MD, Immunogenomics Data Anal Working Group "A community standard for immunogenomic data reporting and analysis: proposal for a STrengthening the REporting of Immunogenomic Studies statement." *Tissue antigens* 2011;78:333-344.

2. Mabile, Laurence, Dalgleish, Raymond, Thorisson, Gudmundur , Deschênes, Mylène, Hewitt, Robert, Carpenter, Jane, Bravo, Elena, Gourraud, Pierre-Antoine, Hofman, Paul, Harris, Jennifer, Munoz-Fernandes, Maria Angeles, and Cambon-Thomsen, Anne. "The BRIF (Bioresource Research Impact Factor) as a tool for improving bioresource sharing in biomedical research." *Nature Precedings* 2011 1 6568 <http://hdl.handle.net/10101/npre.2011.6568.1>
3. Gourraud PA, Feolo M. "The Babel Tower revisited: SNPs - Indels - CNVs. Confusion in naming sequence variant always rises from ashes." *Tissue antigens* 2010;75:199-200.
4. Paul CF, Gourraud PA. "Cancer Risk Evaluation in Psoriasis: In Search of the Holy Grail?" *Journal of Investigative Dermatology* 2009;129:2547-2549.
5. Gourraud PA, Hoffman D, Cambon-Thomsen A, Feolo M, Group IHWW. "14th International HLA and Immunogenetics Workshop: Report on mapping microsatellite markers in the major histocompatibility complex region." *Tissue antigens* 2007;69:206-209.

PATENTS ISSUED OR PENDING (ALLOWED)

1. Contextualization algorithm for precision medicine UCSF patent (in preparation)
2. UCSF has a trademark on the "MS BioScreen" name.
3. Easymatch, computation-based tool for decision making in the search for a compatible source of haematopoietic progenitors source
4. Estihaplo V3.0 Haplotype frequency Estimation Software for KIR and HLA genetic data
5. LogInserm_Estihaplo (V1.0) Haplotype frequency estimation software

OTHER CREATIVE ACTIVITIES

1. Founder of MIRA Medicine Incorporation, USA
2. Development of an Ipad Prototype application for data integration and data driven treatment assistance: The UCSF MS Dashboard.
3. Founder of Methodomics SARL, France

ABSTRACTS

1. Pappas D, Paunic V, Lizee AM, et al. THE IMPUTE PROJECT: EVALUATING SNP IMPUTATION METHODOLOGIES FOR HLA-A, -B, -C,-DRB1 AND-DQB1 GENOTYPES. *Tissue Antigens*. 2014; 84: 12-3.
2. Lizee AM, Pappas D, Paunic V, et al. SNP-BASED IMPUTATION OF HLA ALLELES: WHICH SNP MATTERS? *Tissue Antigens*. 2014; 84: 13-.

3. Harbo H, Isobe N, Berg-Hansen P, et al. OLIGOCLONAL BANDS AND AGE AT ONSET CORRELATE WITH GENETIC RISK SCORE IN MULTIPLE SCLEROSIS. *Tissue Antigens*. 2014; 84: 143-.
4. Gourraud PA, Sidkaa M, KhanKhanian P, et al. VOXELOGENOMICS: GENOME-WIDE ANALYSIS OF BRAIN-WIDE VOXEL-BASED LESION DISTRIBUTION IN MULTIPLE SCLEROSIS. *Tissue Antigens*. 2014; 84: 16-.
5. Gourraud PA, Lizee AM, Snataniello A, et al. PRECISION MEDICINE IN A CHRONIC NEUROLOGICAL DISEASE MANAGEMENT: LESSONS LEARNED FROM THE MULTIPLE SCLEROSIS BIOSCREEN. *Tissue Antigens*. 2014; 84: 124-.
6. Cambon-Thomsen A, Mabile L, Gourraud PA, et al. TRACING AND MEASURING THE IMPACT OF BIORESOURCES: AN INCENTIVE TO SHARE BIOLOGICAL SAMPLES AND ASSOCIATED DATA. *Tissue Antigens*. 2014; 84: 122-.
7. Von Budingen H, Kuo T, Sirota M, et al. B Cell Exchange across the Blood-Brain Barrier in Multiple Sclerosis. *Neurology*. 2013; 80.
8. Lulu ST, Mowry EM, Carey RF, et al. Genetic Associations of Clinical Progression in Multiple Sclerosis. *Ann Neurol*. 2013; 74: S22-S3.
9. Ehrenberg A, Maiers M and Gourraud PA. COMPARISON OF MATCHING POTENTIAL FOR HAPLOBANK OF INDUCED PLURIPOTENT STEM CELL LINES IN VARIOUS ANCESTRY BACKGROUNDS: A CALL FOR INTERNATIONAL COLLABORATION. *Tissue Antigens*. 2013; 81: 345-.
10. Major E, Berces A, Gourraud PA, Juhos S. "HIGH-RESOLUTION HLA TYPING OF 1000 GENOMES NGS SAMPLES USING PAIRE ILLUMINA READS." *Tissue Antigens* 2013;81:270-271.
11. Mowry EM, Waubant E, McCulloch CE, Sampat M, Qualley P, Lincoln R, Gourraud PA, Evangelista A, Brenneman D, Beheshtian A, Llufrui S, Hauser S, Pelletier D. "Vitamin D Levels Are Associated with Disability and Brain Volume in Multiple Sclerosis." *Annals of Neurology* 2012;72:S140-S140.
12. Xia ZQ, Patsopoulos N, Guttmann C, Gourraud PA, Baranzini S, Oksenberg J, Geurts J, Uitdehaag B, Lindberg R, Naegelin Y, Hauser S, Kappos L, Polman C, Weiner H, De Jager P. "A Meta-Analysis of Genome Wide Association Studies To Identify Loci Associated with Brain Atrophy in Multiple Sclerosis." *Annals of Neurology* 2012;72:S26-S26.
13. Gourraud PA, Cereb N, Yang S, Maiers M, McElroy J, Spellman S, Vierra-Green C, Cree B, Baranzini S, Hauser S, Oksenberg J. "RESHAPING THE MHC GENETIC CONTRIBUTION TO MULTIPLE SCLEROSIS: AN ASSOCIATION STUDY OF HIGH RESOLUTION HLA-A HLA-B HLA-C HLA-DRB1 HLA-DQB1 IN EUROPEAN AND AFRICAN AMERICAN MULTIPLE SCLEROSIS PATIENTS." *Tissue Antigens* 2012;79:586-586.
14. Gourraud PA, Bakthavachalam V. "WHEN IS ABSENCE OF EVIDENCE, EVIDENCE OF ABSENCE? USE OF EQUIVALENCE- BASED ANALYSIS FOR SO CALLED NEGATIVE ASSOCIATION STUDY: THE MULTIPLE SCLEROSIS AND KIF1B AND IFNIH1-GCA-KCNH7 LOCI MSGB ANALYSIS." *Tissue Antigens* 2012;79:550-550.

15. Gourraud PA, Gilson L, Tomich A, Girard M, Peschanski M. "A NEW FRONT FOR HLA MATCHING?: THE DEVELOPMENT OF MULTIETHNIC "HAPLOBANK" OF INDUCED PLURIPOTENT STEM CELL LINES." *Tissue Antigens* 2012;79:535-535.
16. Gourraud PA, Balere ML, Loiseau P, Dormoy A, Marry E, Garnier F. "AN ANALYSIS OF HLA DETERMINANTS OF NON-TRANSPLANTED CANDIDATES FOR HSC RESULTS IN A PREDICTIVE METRICS OF THE OUTCOME OF THE SEARCH." *Tissue Antigens* 2012;79:452-452.
17. Gourraud PA, Balere ML, Dormoy A, Loiseau P, Marry E, Garnier F. "COMPUTER ASSISTED SEARCH FOR UNRELATED DONORS USING THE EASYMATCH (c) TOOL AT FRANCE GREFFE DE MOELLE." *Tissue Antigens* 2012;79:435-436.
18. Ruysen-Witrand A, Gourraud PA, Nigon D, Lukas C, Miceli-Richard C, Jamard B, Cantagrel A, Cambon-Thomsen A, Dieude P, Constantin A. "EVOLUTION OF THE ALTERNATIVE CLASSIFICATION OF HLA-DRB1 ALLELES IN RHEUMATOID ARTHRITIS: IMPACT ON THE PRODUCTION OF THE ANTI-CITRULLINATED PROTEIN ANTIBODIES AND STRUCTURAL PROGRESSION: DATA FROM THE ESPOIR COHORT." *Tissue Antigens* 2012;79:427-427.
19. Isobe N, Bakthavachalam V, Cailler S, Santaniello A, Hauser S, Oksenberg J, Gourraud PA. "GENETIC RISK SCORE IN MULTIPLE SCLEROSIS: BACK TO THE INDIVIDUAL IN THE POST-GWAS ERA." *Tissue Antigens* 2012;79:412-412.
20. Gourraud PA, Cereb N, KhanKhanian P, Yang S, Dunivin R, Feolo M, Rioux J, Hauser S, Oksenberg J. "THE MHC AND HLA ALLELIC DIVERSITY OF THE 1000 GENOME SAMPLES." *Tissue Antigens* 2012;79:403-403.
21. Mowry E, Waubant E, McCulloch C, Sampat M, Qualley P, Lincoln R, Gourraud PA, Evangelista A, Brenneman D, Beheshtian A, Llufrui S, Hauser S, Pelletier D. "Vitamin D Levels Are Associated with Disability and Brain Volume in Multiple Sclerosis." *Neurology* 2012;78.
22. Mowry EM, Pelletier J, Blasco MR, Duquette P, Villoslada P, Gourraud PA, Malikova I, Picard C, McDonald J, Roger E, Caillier S, Waubant E. "Association of MS Susceptibility Variants and Early Attack Location." *Annals of Neurology* 2011;70:S69-S69.
23. Gourraud PA, Balere ML, Marry E, Garnier F. "Haematopoietic stem cell transplantation: HLA analysis of non-transplanted versus transplanted patients." *Bone Marrow Transplantation* 2010;45:S306-S306.
24. Gourraud PA, Elroy JMC, Stacy C, Johnson B, Santaniello A, Hauser SL, Oksneberg JR. "Modeling the Genetic Burden in Multiple Sclerosis Predicts a Higher Genetic Load of Risk Variants in Multicase Compared to Single Case Families: A Tool for Future Study Experiment in MS." *Genetic Epidemiology* 2010;34:978-978.
25. Barbour JD, Gourraud PA, Woo J, Karaouni A, Schmidt T, Spotts G, Oksenberg JR, Hecht FM, Liegler TJ. "A Common APOBEC3H Haplotype Associates with Decreased HIV-1 Sequence Editing and Lower HIV-1 RNA Set-Point In Early Untreated HIV-1 Infection." *Genetic Epidemiology* 2010;34:947-947.

26. Gourraud JB, Billon O, Lande G, Gourraud PA, Lemarec H, Abbey S. "Catheter ablation of monomorphic ventricular premature beats in electrical storm." *European Heart Journal* 2010;31:561-561.
27. Hollenbach JA, Erlich H, Feolo M, Fernandez-Vina M, Gourraud PA, Helmberg W, Kanga U, Kupatawintu P, Lancaster A, Maiers M, Maldonado-Torres H, Marsh SGE, Meyers D, Middleton D, Muller CR, Nathalang O, Park MH, Single RM, Tait B, Thomson G, Valdes AM, Varney M, Mack SJ. "Toward a community standard for immunogenetics data reporting and analysis." *Tissue Antigens* 2010;75:532-533.
28. Gourraud PA, Meenagh A, Cambon-Thomsen A, Middleton D. "Linkage disequilibrium structure of the human KIR genes cluster: implications for KIR data analyses." *Tissue Antigens* 2010;75:519-520.
29. Gourraud PA, Cailler S, KhanKhanian P, McElroy J, Oksenberg J. "The genetic burden in sporadic multiple sclerosis computed from HLA, gender and 17 associated SNPs: a long way to genetic biomarker in multifactorial diseases." *Tissue Antigens* 2010;75:486-487.
30. Gourraud PA, Balere ML, Marry E, Garnier F. "Hematopoietic stem cell transplantation (HSCT): HLA analysis of non-transplanted versus transplanted patients." *Tissue Antigens* 2010;75:479-479.
31. Gourraud PA, Gragert L, Eberhard HP, Balere ML, Madonado-Torres H, Feldmann U, Steiner D, Van der Zanden HGM, Oudshoorn M, Muller CR, Marsh SGE, Maiers M. "Challenges of haplotype estimation methods for hematopoietic stem cell donors and cord blood registry uses." *Tissue Antigens* 2010;75:476-476.
32. Gourraud PA, Meenagh A, Trosset JY, Proux V, Oksenberg J, Middleton D. "Haplotype estimation using KIR genotypes from familial and/or unrelated individual genotype data." *Tissue Antigens* 2010;75:472-473.
33. Britt J, Pierre-Antoine G, Jorge O. "Analysis of MS susceptibility in African Americans. Beyond replication." *Journal of Neuroimmunology* 2010;228:193-194.
34. Johnson B, Gourraud PA, Oksenberg JR. "Beyond Replication Analysis of African American MS Susceptibility SNPs." *International Society of Neuroimmunology Conference, Sitges Spain* 2010.
35. Couturier N, Gourraud PA, Gour-Raud PA, Rabadeux C, Parmentier L, Bucciarelli F, Rebeix I, Gout C, Colamarino R, Borgel F, Mrejen S, Cabre P, Frenay CL, Yaouanq J, Hautecoeur P, Debouverie M, Edan G, Clanet M, Fontaine B, Brassat D. "Challenging the Role of Chromosome X Inactivation in Multiple Sclerosis Pathogenesis." *Neurology* 2009;72:A374-A374.
36. Couturier N, Gourraud PA, Comabella M, Weber F, Muller-Myhsok B, Goertsches R, Vandebroek K, Schmit E, Debouverie M, Lebrun-Frenay C, Lepage E, Defer G, Moreau T, Vukusic S, Mrejen S, Edan G, Bucciarelli F, Rabadeux C, Parmentier L, Merle H, Cournu-Rebeix I, Gout C, Clanet M, Fontaine B, Brassat D. "IFN beta-Pathway Gene Polymorphisms Influence Response to Multiple Sclerosis Treatment. A European Study." *Neurology* 2009;72:A8-A8.
37. Gourraud PA, Dilger JB, Fourtine F, Cambon-Thomsen A. "HLA & microsatellites haplotypes in tag strategy." *Tissue Antigens* 2009;73:479-479.

38. Textoris J, Lloriod B, Benayoun L, Huet O, Gourraud PA, Antonini F, Puthier D, Mantz J, Martin C, Nguyen C, Leone M. "TRANSCRIPTOME ANALYSIS OF VENTILATOR ASSOCIATED PNEUMONIA IN TRAUMA PATIENTS THE SEPSICHIP PROJECT." *Intensive Care Medicine* 2009;35:90-90.
39. Boyer J, Davignon JL, Gourraud PA, Nigon D, Jamard B, Faucon B, Baron M, Cantagrel A, Constantin A. "Association of rank1 and rank gene Polymorphisms with erosive status in patients included in an early arthritis cohort." *Arthritis and Rheumatism* 2008;58:S213-S213.
40. Mattera L, Escaffit F, Pillaire MJ, Selves J, Tyteca S, Hoffmann JS, Gourraud PA, Chevillard-Briet M, Cazaux C, Trouche D. "Critical role of the Tip60/p400 ratio in the proliferation of colorectal tumoral cells through the control of response pathways in DNA damage." *Bulletin Du Cancer* 2008;95:S45-S46.
41. Lemee F, Bergoglio V, Pillaire MJ, Selves J, Guimbaud R, Gourraud PA, Gentil C, Hoffmann JS, Cazaux C. "Overexpression of the "specialized" DNA polymerase theta colorectal and breast cancers: impact on genetic instability and relevance for a use as a new cancer marker." *Bulletin Du Cancer* 2008;95:S39-S39.
42. Gourraud PA, Meenagh A, Cambon-Thomsen A, El-Kadhi N, Middleton D. "Haplotype estimation using KIR genotypes: combining familial and population data in order to use KIR linkage disequilibrium in association study & Linkage Disequilibrium Patterns in the Kir Cluster: Several Point of View on the Same Non Independent Association of Kir Genes Polymorphisms. ." XVth Immunogenetics and Histocompatibility Workshop published in *Tissue Antigens* 2008;72:P-114.
43. Shehab H, Buscail L, Bournet B, Gourraud PA, Escourrou J. "Safety and efficacy of endoscopic ampullectomy in tumors with and without intraductal growth and predictive factors of success: A prospective trial." *Gastrointestinal Endoscopy* 2008;67:AB162-AB163.
44. Shehab H, Buscail L, Bournet B, Gourraud PA, Escourrou J. "Safety and efficacy of endoscopic ampullectomy in tumors with and without intraductal growth and predictive factors of success: a prospective trial." *The Digestive week* 2008 2008:440526.
45. Vidan-Jeras B, Kovac D, Voncina J, Haasnoot G, Gourraud PA, Cambon-Thomsen A, Claas FHJ, Doxiadis IIN. "Joining a large organ exchange organisation: implications for a single center country." *Tissue Antigens* 2008;71:375-375.
46. Gourraud PA, Cambon-Thomsen A, Consortium M. "Microsatellite based approach to predict frequent HLA phenotype: the uses of linkage disequilibrium in MHC." *Tissue Antigens* 2008;71:366-367.
47. Cambon-Thomsen A, Gourraud PA, Larre JM, Thomsen M. "Surfing on coherent HLA region microsatellite data from the literature: the MAMSat database and its user queries." *Tissue Antigens* 2008;71:350-350.
48. Constantin A, Gourraud PA, Boyer JF, Nigon D, Faucon B, Jamard B, Cambon-Thomsen A, Davignon JL, Cantagrel A. "Association of haplotypes of collagenase-1 and stromelysin-1 polymorphisms with erosive status in early rheumatoid arthritis." *Tissue Antigens* 2008;71:342-342.

49. Barnetche T, Constantin A, Cantagre A, Cambon-Thomsen A, Gourraud PA. "Relevance of the HLA-DRB1 shared epitope allele's classification in rheumatoid arthritis: an overview of previous findings." *Tissue Antigens* 2008;71:341-341.
50. Cambon-Thomsen A, Grzeczka G, Gourraud PA, Larre J, Thomsen M. "Making the MAMSat database and its user queries operational." *Tissue Antigens* 2008;72:310-311.
51. Gourraud PA, Meenagh A, Cambon-Thomsen A, Middleton D. "Linkage disequilibrium patterns in the KIR cluster: several point of view on the same non independent association of KIR genes polymorphisms." *Tissue Antigens* 2008;72:299-299.
52. Gourraud PA, Meenagh A, Cambon-Thomsen A, El-Kadhi N, Middleton D. "Haplotype estimation using KIR genotypes: combining familial and population data in order to use KIR linkage disequilibrium in association study." *Tissue Antigens* 2008;72:298-299.
53. Nordang GBN, Gourraud PA, Viken MK, Constantin A, Cambon-Thomsen A, Thorsby E, Forre O, Kvien TK, Lie BA. "The Tezenas du Montcel classification of HLA-DRB1 alleles in Norwegian rheumatoid arthritis patients differentiates clinical manifestations." *Tissue Antigens* 2008;71:276-276.
54. Gourraud PA, Siquier L, Meenagh A, Cambon-Thomsen A, Kadhi NE, Middleton D. "Haplotype estimation using KIR genotypes: combining familial and population data in order to use KIR linkage disequilibrium in association study." *Tissue Antigens* 2008;71:272-272.
55. Nordang G, Gourraud PA, Viken M, Constantin A, Cambon-Thomsen A, Thorsby E, Forre O, Kvien T, Lie B. "The Tezenas du Montcel classification of HLA-DRB1 alleles in Norwegian rheumatoid arthritis patients differentiates clinical manifestations." *Tissue Antigens* 2008;71:265-398 030.
56. Gourraud PA, Siquier L, Meenagh A, Cambon-Thomsen A, El-Kadhi N, Middleton D. "Haplotypes estimation using KIR genotypes: Combining familial and population data in order to use KIR LD in association studies." *Tissue Antigens* 2008;71:265-398 260-219.
57. Eberhard HP, Gourraud PA, Muller CR. "Facts and fiction in the calculation of genetic distances." *Tissue Antigens* 2008;72:264-265.
58. Eberhard HP, Feldmann U, Appert ML, Gourraud PA, Torres HM, van der Zanden H, Maiers M, Marsh S, Muller CR. "Validation of programs for haplotype frequency estimation from registry data." *Tissue Antigens* 2008;72:264-264.
59. Eberhard HP, Appert ML, Gourraud PA, Gragert L, Torres HM, Steiner D, van der Zanden H, Maiers M, Marsh S, Muller CR. "Comparing different programs for HLA haplotype frequency estimation in a controlled data environment." *Tissue Antigens* 2008;72:263-264.
60. Cambon-Thomsen A, Gourraud PA, Poseidon C. "The Poseidon Project. ." XVth Immunogenetics and Histocompatibility Workshop published in *Tissue Antigens* 2008;72.
61. Salinas-Pineda A, Hermant C, Gourraud PA, Murriss M, Laroumagne S, Segonds C, Do C, Didier A, Mazières J. "Incidence et caractéristiques des colonisations bronchiques lors du diagnostic de cancer bronchique. Etude de 388 cas." 12e Congrès de Pneumologie de Langue Française 2008.

62. Pillaire MJ, Selves J, Delsol G, Theillet C, Cazaux C, Gourraud PA, Danjoux M, Orsetti B, Bieth A, Gordien K, Guimbaud R, Grosclaude P, Hoffmann JS. "3R as a pejorative signature of illness." *Bulletin Du Cancer* 2007;94:S297-S297.
63. Schmit E, Gourraud PA, Couturier N, Le Page E, Vukusic S, Debouverie M, Defer GL, Lebrun C, Frangoulis B, Achiti J, Merle H, Edan G, Fontaine B, Clanet M, Brassat D. "Early prediction of the long-term response to interferon beta in relapsing-remitting multiple sclerosis patients." *Multiple Sclerosis* 2007;13:S58-S59.
64. Ghomi R, Jolibert S, Gourraud PA, Saint-Blancat J, Larre JM, Cambon-Thomsen A, Thomsen M. "MAMSat, a bioinformatics tool for annotating and analyzing literature on HLA microsatellite markers." *Human Immunology* 2007;68:S12-S12.
65. Cambon-Thomsen A, Gourraud PA, Barnetche T, Rial-Sebbag E. "Issues in data access following large scale genetic studies: promoting data sharing and protecting individuals, contradictory requirements?" *Tissue Antigens* 2007;69:531-532.
66. Jolibert S, Gourraud PA, Saint-Blancat J, Derre M, Larre JM, Thomsen AC, Thomsen M. "Developing the MAMSat database and user queries." *Tissue Antigens* 2007;69:526-526.
67. Gourraud PA, Meenagh A, Middleton D, Cambon-Thomsen A. "KIR region diversity studied by haplotype combination from family study." *Tissue Antigens* 2007;69:465-466.
68. Middleton D, Meenagh A, Gourraud P. "KIR haplotype content at the allele level in 77 northern Irish families." *Tissue Antigens* 2007;69:429-430.
69. Gourraud PA, Feolo M, Dauber EM, Mayr W, Thomsen M, Mickelson E, Hansen J, Shiina T, Doxiadis GG, Cambon-Thomsen A. "Overall achievements of the HLA region microsatellites international working group following the 14th IHIWS." *Tissue Antigens* 2007;69:426-427.
70. Barnetche T, Cambon-Thomsen A, Constantin A, Gourraud PA. "Classification of HLA-DRB1 shared epitope alleles in rheumatoid arthritis: a meta-analysis of data from 13th IHWG on rheumatoid arthritis." *Tissue Antigens* 2007;69:423-423.
71. Barnetche T, Constantin A, Cantagrel A, Cambon-Thomsen A, Gourraud P. "New classification of HLA-DRB1 alleles in rheumatoid arthritis susceptibility: A meta-analysis on worldwide samples." *Annals of the Rheumatic Diseases* 2007;66:126-126.
72. Lemaire O, Gourraud PA, Zabraniecki L, Cantagrel A. "Traitement par ondes de choc (ODC) dans les tendinites calcifiantes de l'épaule: revue systématique de la littérature." XXème Congrès Français de Rhumatologie 2-5 Décembre 2007, Paris 2007.
73. Cambon-Thomsen A, Antic J, Gourraud PA, Raffoux C. "Population genetics analysis of the French haematopoietic stem cell donor Registry." *Tissue Antigens* 2006;67:565-566.
74. Gourraud PA, Gagne K, Bignon JD, Cambon-Thomsen A, Middleton D. "KIR haplotype estimation using unrelated genotypes: a constrained maximum likelihood method." *Tissue Antigens* 2006;67:562-562.
75. Gourraud PA, Hoffman D, Cambon-Thomsen A, Feolo M. "The dbMHC microsatellite portal: A public resource for the storage and display of MHC microsatellite information." *Tissue Antigens* 2006;67:526-526.

76. Feve F, Cambon-Thomsen A, Eliaou JF, Gourraud PA, Raffoux C, Florens JP. "Economic analysis of the organization of a registry of hematopoietic stem cell donors." *Tissue Antigens* 2006;67:514-514.
77. Thomsen M, Gourraud PA, Derre M, Larre JM, Barnetche T, Cambon-Thomsen A. "The MAMSat project, a literature based tool for the use of HLA-region microsatellites." *Tissue Antigens* 2006;67:468-468.
78. Gourraud PA, Boyer JF, Barnetche T, Serre G, Cambon-Thomsen A, Cantagrel A, Constantin A. "Classification of HLA-DRB1 alleles differentiates predisposing and protective alleles for structural severity and anti-citrullinated peptide antibodies in rheumatoid arthritis." *Tissue Antigens* 2006;67:457-457.
79. Gourraud PA, Boyer J, Barnetche T, Serre G, Cambon-Thomsen A, Cantagrel A, Constantin A. "Classification of HLA-DRB1 alleles differentiates predisposing and protective alleles for structural severity and anti-citrullinated peptide antibodies in rheumatoid arthritis." *Annals of the Rheumatic Diseases* 2006;65:290-290.
80. Gourraud PA, Dieudé P, Boyer JF, Nogueira L, Cambon-Thomsen A, Mazières B, Cornélis F, Serre G, Cantagrel A. "Une nouvelle classification des allèles HLA-DRB1 codant l'épitope partagé différencie des allèles de prédisposition et de protection vis-à-vis de la production d'autoanticorps dans la polyarthrite rhumatoïde. ." XIXème Congrès Français de Rhumatologie 03-06 Décembre 2006, Paris 2006.
81. Chapron FF, Gourraud PA, Raffoux C, Cambon-Thomsen A, Florens JP. "Simulation-based model for registry construction to optimize compatible donor provision from haematopoietic stem cell registries." *Genes and Immunity* 2005;6:S74-S74.
82. Denis L, Sivula J, Gourraud PA, Kerdudou N, Chout R, Ricard C, Moisan JP, Gagne K, Partanen J, Bignon JD. "Genetic diversity of KIR natural killer cell markers in populations from France, Finland, Guadeloupe, Senegal and Reunion." *Genes and Immunity* 2005;6:S48-S48.
83. Barnetche T, Gourraud PA, Cambon-Thomsen A, Cantagrel A, Constantin A. "HLA microsatellites polymorphisms and susceptibility to rheumatoid arthritis." *Genes and Immunity* 2005;6:S36-S36.
84. Gourraud PA, Betard C, Raffoux C, Sacchi N, Rajczy K, Oudshorn M, Gut I, Eliaou JF, Claas F, Cambon-Thomsen A. "Correlation of frequent HLA haplotypes with HLA microsatellite haplotypes." *Genes and Immunity* 2005;6:S35-S35.
85. Rajczy K, Gourraud PA, Van den Zanden H, Dobos A, Pozsonyi E, Padanyi A, Gyodi E, Rasonyi R, Garamszegi M, Petranyi G, Cambon-Thomsen A. "Population genetics in the Hungarian marrow donors registry: The contribution of minorities." *Genes and Immunity* 2005;6:S27-S27.
86. Gourraud PA, Feolo M, Cambon-Thomsen A, Msat IG. "Microsatellites: InHLA region development of interface at NCBI's dbMHC." *Genes and Immunity* 2005;6:S7-S7.
87. Gourraud PA, Feolo M, Cambon-Thomsen A. "Microsatellites in HLA region: development of interface at NCBI's DBMHC." *Gene and Immunity* 2005;Volume 6,:S6-25.

88. Derrre M, Gourraud PA, Larre JM, Thomsen M, Cambon-Thomsen A. "Towards a Meta-analysis of HLA Region Microsatellites, the MAMSat Project." *Tissue Antigens* 2005;66:562-601.
89. Derre M, Gourraud P, Larre J, Barnetche T, Cambon-Thomsen A, Thomsen M. "Towards a meta-analysis of HLA region microsatellites, the MAMSat project." *Tissue Antigens* 2005;66:562-563.
90. Gourraud PA, Barnetche T, Boyer JF, Cambon-Thomsen A, Cantagrel A, Constantin A. "Predisposing and Protective Alleles for Rheumatoid Arthritis Structural Severity According to a New Classification of HLA-DRB1 Alleles." *Tissue Antigens* 2005;66:433 -247.
91. Feve F, Gourraud PA, Cambon-Thomsen A, Florens JP, Mado C. "Matching models and optimal registry for voluntary organ donation registries." *Tissue Antigens* 2005;66:433-433.
92. Gourraud PA, Boyer JF, Barnetche T, Cantagrel A, Cambon-Thomsen A, Constantin A. "Predisposing and protective alleles for rheumatoid arthritis structural severity according to a new classification of HLA-DRB1 alleles." *Tissue Antigens* 2005;66:433-433.
93. Gourraud PA, Feolo M, Cambon-Thomsen A. "Microsatellites in HLA Region Development of Interface at NCBI'S DBMHC." *Tissue Antigens* 2005;66:432 -245.
94. Gourraud PA, Denis L, Bignon JD, Middleton D, Cambon-Thomsen A. "Haplotype Estimation Using KIR Genotypes: A Constrained Maximum Likelihood Method." *Tissue Antigens* 2005;66:432 -244.
95. Gourraud PA, Feolo M, Cambon-Thomsen A. "Microsatellites in HLA region development of interface at NCBI'S DBMHC." *Tissue Antigens* 2005;66:432-433.
96. Gourraud PA, Denis L, Bignon J, Middleton D, Cambon-Thomsen A. "Haplotype estimation using KIR genotypes: A constrained maximum likelihood method." *Tissue Antigens* 2005;66:432-432.
97. Gourraud PA, Bétard C, Raffoux C, Sacchi N, Rajczy C, Oudshoorn M, Eliaou JF, Gut I, Claas FHJ, Cambon-Thomsen A. "Strong Linkage Disequilibrium Demonstrating the Microsatellite Haplotypes Predictive Power on HLA Genes." *Tissue Antigens* 2005;66:431 -243.
98. Gourraud P, Betard C, Raffoux C, Sacchi N, Rajczy K, Oudshoorn M, Eliaou JF, Gut I, Claas F, Cambon-Thomsen A. "Strong linkage disequilibrium demonstrating the microsatellite haplotypes predictive power on HLA genes." *Tissue Antigens* 2005;66:431-432.
99. Cambon-Thomsen A, Gourraud PA. "Association between HLA Region Microsatellites (MSAT) and HLA Genes in the MADDO Project Data Set: Any Use in the Context of Registry Strategy?" *Tissue Antigens* 2005;66:372 - 382.
100. Thomsen AC, Gourraud P. "Association between HLA region microsatellites (MSAT) and HLA genes in the MADDO project data set: Any use in the context of registry strategy?" *Tissue Antigens* 2005;66:372-372.
101. Barnetche T, Cantagrel A, Constantin A, Gourraud P, Cambon-Thomsen A. "HLA microsatellites polymorphisms and susceptibility to rheumatoid arthritis." *Annals of the Rheumatic Diseases* 2005;64:113-113.

102. Constantin A, Dieude P, Gourraud PA, Serre G, Cambon-Thomsen A, Mazieres B, Cornelis F, Cantagrel A. "Peptidylarginine deiminase 4 gene polymorphisms and autoantibodies to cyclic citrullinated peptides in the prognosis of rheumatoid arthritis." *Arthritis and Rheumatism* 2004;50:S355-S355.
103. Chapron F, Gourraud PA, Cambon-Thomsen A, Florens JP. "Model of donors registries optimal HLA composition." *Genes and Immunity* 2004;5:S25-S25.
104. Gourraud PA, Mano S, Cambon-Thomsen A, Inoko H. "Microsatellites: Another babel tower in HLA region." *Genes and Immunity* 2004;5:S11-S11.
105. Gourraud PA, Mano S, Inoko H, Cambon-Thomsen A. "Microsatellites:another Babel tower in HLA region." *Gene and immunity* 2004;5:S11-42.
106. Rajczy K, Gourraud PA, Pozsonyi E, Dobos A, Padanyi A, Gyodi E, Petranyi G, Cambon-Thomsen A. "The importance of inclusion of ethnic minorities to to hematopoietic stem cell donor registry in Hungary." *Tissue Antigens* 2004;64:369-369.
107. Constantin A, Dieudé P, Gourraud PA, Serre G, Cambon-Thomsen A, Mazières B, Cornélis F. "Intérêt pronostique de l'étude de polymorphismes du gène de la peptidyl arginine déiminase 4 et de la recherche d'anticorps anti-peptides cycliques citrullinés dans la polyarthrite rhumatoïde débutante." XVIème Congrès Français de Rhumatologie 15-17 Novembre 2004, Paris 2004.
108. Constantin A, Dieudé P, Gourraud PA, Serre G, Cambon-Thomsen A, Mazières B, Cornélis F, Cantagrel A. " Intérêt pronostique de l'étude de polymorphismes du gène de la peptidyl arginine déiminase 4 et de la recherche d'anticorps anti-peptides cycliques citrullinés dans la polyarthrite rhumatoïde débutante." XVIème Congrès Français de Rhumatologie 2004;Paris France.
109. Gourraud PA, Baouz A, Raffoux C, Cambon-Thomsen A. "Use of haplotype information in the search for compatible donor: Example in France." *Genes and Immunity* 2003;4:S25-S25.
110. Gourraud PA, Van Der Zanden H, Raffoux C, Eliaou JF, Cambon-Thomsen A, Consortium M. "What is a frequent HLA haplotype?" *Genes and Immunity* 2003;4:S25-S25.
111. Gourraud PA, Bétard C, Raffoux C, Cambon-Thomsen A. Microsatellites in the HLA region, Association with HLA alleles and HLA haplotypes. In: 7th Asia Oceania Histocompatibility Conference; 2003:55.
112. Gourraud PA, Raffoux C, Cambon-Thomsen A. "Implication of population genetics dimension in unrelated bone marrow transplantation organisation." *European Journal of Human Genetics* 2002;10:185-185.
113. Gourraud PA. "Optimisation des registres Européens de Donneurs volontaires de cellules souches hématopoïétiques."
114. Gourraud PA, Baouz A, Raffoux C, Cambon-Thomsen A, Consortium TME. Contribution of population analysis to bone marrow Registries. In: ESH IIIrd euroconference Immunobiology of transplantation from basic to clinical sciences. Paris, France: European School of Haematology; 2002.

115. Foissac A, Gourraud PA, Fort M, Clayton J, Abbal M, Raffoux C, Moine A, Bensa JC, Mercier P, Cambon-Thomsen A. HLA Microsatellites and SNP: reassessment of marrow donors bank strategies. In: 15th European Histocompatibility Conference. Granada, Spain; 2001.

116. Gourraud PA, Foissac A, Fort M, Clayton J, Abbal M, Raffoux C, Moine A, Bensa J-C, Mercier P, Cambon-Thomsen A. "Microsatellites and SNP in the Human Major histocompatibility complex."

117. Foissac A, Gourraud PA, Fort M, Clayton J, Abbal M, Raffoux C, Moine A, Bensa JC, Mercier P, Cambon-Thomsen A. Microsatellites in the HLA region, Linkage with HLA: possible application in bone marrow transplantation and other approaches. In: Immunobiology of transplantation from basic to clinical sciences, ESH 2nd euroconference. Oporto, Portugal: European School of Haematology; 2000.

118. 94 Poster presentations in scientific meetings

119. 1. Ehrenberg A, Maiers M, Gourraud PA. "COMPARISON OF MATCHING POTENTIAL FOR HAPLOBANK OF INDUCED PLURIPOTENT STEM CELL LINES IN VARIOUS ANCESTRY BACKGROUNDS: A CALL FOR INTERNATIONAL COLLABORATION." *Tissue Antigens* 2013;81:345-345.

120. Major E, Berces A, Gourraud PA, Juhos S. "HIGH-RESOLUTION HLA TYPING OF 1000 GENOMES NGS SAMPLES USING PAIRE ILLUMINA READS." *Tissue Antigens* 2013;81:270-271.

121. Mowry EM, Waubant E, McCulloch CE, Sampat M, Qualley P, Lincoln R, Gourraud PA, Evangelista A, Brennenman D, Beheshtian A, Llufrui S, Hauser S, Pelletier D. "Vitamin D Levels Are Associated with Disability and Brain Volume in Multiple Sclerosis." *Annals of Neurology* 2012;72:S140-S140.

122. Xia ZQ, Patsopoulos N, Guttmann C, Gourraud PA, Baranzini S, Oksenberg J, Geurts J, Uitdehaag B, Lindberg R, Naegelin Y, Hauser S, Kappos L, Polman C, Weiner H, De Jager P. "A Meta-Analysis of Genome Wide Association Studies To Identify Loci Associated with Brain Atrophy in Multiple Sclerosis." *Annals of Neurology* 2012;72:S26-S26.

123. Gourraud PA, Cereb N, Yang S, Maiers M, McElroy J, Spellman S, Vierra-Green C, Cree B, Baranzini S, Hauser S, Oksenberg J. "RESHAPING THE MHC GENETIC CONTRIBUTION TO MULTIPLE SCLEROSIS: AN ASSOCIATION STUDY OF HIGH RESOLUTION HLA-A HLA-B HLA-C HLA-DRB1 HLA-DQB1 IN EUROPEAN AND AFRICAN AMERICAN MULTIPLE SCLEROSIS PATIENTS." *Tissue Antigens* 2012;79:586-586.

124. Gourraud PA, Bakthavachalam V. "WHEN IS ABSENCE OF EVIDENCE, EVIDENCE OF ABSENCE? USE OF EQUIVALENCE- BASED ANALYSIS FOR SO CALLED NEGATIVE ASSOCIATION STUDY: THE MULTIPLE SCLEROSIS AND KIF1B AND IFNIH1-GCA-KCNH7 LOCI MSGB ANALYSIS." *Tissue Antigens* 2012;79:550-550.

125. Gourraud PA, Gilson L, Tomich A, Girard M, Peschanski M. "A NEW FRONT FOR HLA MATCHING?: THE DEVELOPMENT OF MULTIETHNIC "HAPLOBANK" OF INDUCED PLURIPOTENT STEM CELL LINES." *Tissue Antigens* 2012;79:535-535.

126. Gourraud PA, Balere ML, Loiseau P, Dormoy A, Marry E, Garnier F. "AN ANALYSIS OF HLA DETERMINANTS OF NON-TRANSPLANTED CANDIDATES FOR HSC RESULTS IN A

PREDICTIVE METRICS OF THE OUTCOME OF THE SEARCH." *Tissue Antigens* 2012;79:452-452.

127. Gourraud PA, Balere ML, Dormoy A, Loiseau P, Marry E, Garnier F. "COMPUTER ASSISTED SEARCH FOR UNRELATED DONORS USING THE EASYMATCH (c) TOOL AT FRANCE GREFFE DE MOELLE." *Tissue Antigens* 2012;79:435-436.

128. Ruysse-Witrand A, Gourraud PA, Nigon D, Lukas C, Miceli-Richard C, Jamard B, Cantagrel A, Cambon-Thomsen A, Dieude P, Constantin A. "EVOLUTION OF THE ALTERNATIVE CLASSIFICATION OF HLA-DRB1 ALLELES IN RHEUMATOID ARTHRITIS: IMPACT ON THE PRODUCTION OF THE ANTI-CITRULLINATED PROTEIN ANTIBODIES AND STRUCTURAL PROGRESSION: DATA FROM THE ESPOIR COHORT." *Tissue Antigens* 2012;79:427-427.

129. Isobe N, Bakthavachalam V, Cailler S, Santaniello A, Hauser S, Oksenberg J, Gourraud PA. "GENETIC RISK SCORE IN MULTIPLE SCLEROSIS: BACK TO THE INDIVIDUAL IN THE POST-GWAS ERA." *Tissue Antigens* 2012;79:412-412.

130. Gourraud PA, Cereb N, KhanKhanian P, Yang S, Dunivin R, Feolo M, Rioux J, Hauser S, Oksenberg J. "THE MHC AND HLA ALLELIC DIVERSITY OF THE 1000 GENOME SAMPLES." *Tissue Antigens* 2012;79:403-403.

131. Mowry E, Waubant E, McCulloch C, Sampat M, Qualley P, Lincoln R, Gourraud PA, Evangelista A, Brennehan D, Beheshtian A, Llufrui S, Hauser S, Pelletier D. "Vitamin D Levels Are Associated with Disability and Brain Volume in Multiple Sclerosis." *Neurology* 2012;78.

132. Mowry EM, Pelletier J, Blasco MR, Duquette P, Villoslada P, Gourraud PA, Malikova I, Picard C, McDonald J, Roger E, Caillier S, Waubant E. "Association of MS Susceptibility Variants and Early Attack Location." *Annals of Neurology* 2011;70:S69-S69.

133. Gourraud PA, Isobe N, Khankhanian P, Santaniello A, Johnson B, McElroy J, Cailler S, Hauser SLE, Baranzini SE, Oksenberg JR. "The MS Genetic Burden Approach

134. Integrative approach of the Common MS genetic risk factors." *NMSS Meeting* 2011.

135. Gourraud PA, Balere ML, Marry E, Garnier F. "Haematopoietic stem cell transplantation: HLA analysis of non-transplanted versus transplanted patients." *Bone Marrow Transplantation* 2010;45:S306-S306.

136. Gourraud PA, Elroy JMC, Stacy C, Johnson B, Santaniello A, Hauser SL, Oksenberg JR. "Modeling the Genetic Burden in Multiple Sclerosis Predicts a Higher Genetic Load of Risk Variants in Multicase Compared to Single Case Families: A Tool for Future Study Experiment in MS." *Genetic Epidemiology* 2010;34:978-978.

137. Barbour JD, Gourraud PA, Woo J, Karaoui A, Schmidt T, Spotts G, Oksenberg JR, Hecht FM, Liegler TJ. "A Common APOBEC3H Haplotype Associates with Decreased HIV-1 Sequence Editing and Lower HIV-1 RNA Set-Point In Early Untreated HIV-1 Infection." *Genetic Epidemiology* 2010;34:947-947.

138. Gourraud JB, Billon O, Lande G, Gourraud PA, Lemarec H, Abbey S. "Catheter ablation of monomorphic ventricular premature beats in electrical storm." *European Heart Journal* 2010;31:561-561.

139. Hollenbach JA, Erlich H, Feolo M, Fernandez-Vina M, Gourraud PA, Helmberg W, Kanga U, Kupatawintu P, Lancaster A, Maiers M, Maldonado-Torres H, Marsh SGE, Meyers D, Middleton D, Muller CR, Nathalang O, Park MH, Single RM, Tait B, Thomson G, Valdes AM, Varney M, Mack SJ. "Toward a community standard for immunogenetics data reporting and analysis." *Tissue Antigens* 2010;75:532-533.
140. Gourraud PA, Meenagh A, Cambon-Thomsen A, Middleton D. "Linkage disequilibrium structure of the human KIR genes cluster: implications for KIR data analyses." *Tissue Antigens* 2010;75:519-520.
141. Gourraud PA, Cailler S, KhanKhanian P, McElroy J, Oksenberg J. "The genetic burden in sporadic multiple sclerosis computed from HLA, gender and 17 associated SNPs: a long way to genetic biomarker in multifactorial diseases." *Tissue Antigens* 2010;75:486-487.
142. Gourraud PA, Balere ML, Marry E, Garnier F. "Hematopoietic stem cell transplantation (HSCT): HLA analysis of non-transplanted versus transplanted patients." *Tissue Antigens* 2010;75:479-479.
143. Gourraud PA, Gragert L, Eberhard HP, Balere ML, Maldonado-Torres H, Feldmann U, Steiner D, Van der Zanden HGM, Oudshoorn M, Muller CR, Marsh SGE, Maiers M. "Challenges of haplotype estimation methods for hematopoietic stem cell donors and cord blood registry uses." *Tissue Antigens* 2010;75:476-476.
144. Gourraud PA, Meenagh A, Trosset JY, Proux V, Oksenberg J, Middleton D. "Haplotype estimation using KIR genotypes from familial and/or unrelated individual genotype data." *Tissue Antigens* 2010;75:472-473.
145. Britt J, Pierre-Antoine G, Jorge O. "Analysis of MS susceptibility in African Americans. Beyond replication." *Journal of Neuroimmunology* 2010;228:193-194.
146. Gourraud PA, Balere ML, Marry E, Garnier F. "Haematopoietic Stem Cell Transplantation (HSCT) : HLA analysis of non-transplanted versus transplanted patients. ." 8TH INTERNATIONAL DONOR REGISTRY CONFERENCE Trinity College Dublin Ireland June 18th - 19th 2010 2010.
147. Gourraud PA, Eberhard HP, Maldonado-Torres H, Balere ML, Gragert L, Van Der Zanden H, Steiner D, Oudshoorn M, Muller CR, Marsh S. "Challenges of Haplotype estimation methods for Hematopoietic Stem Cell Donors and Cord Blood Units Registry Use." 8TH INTERNATIONAL DONOR REGISTRY CONFERENCE Trinity College Dublin Ireland June 18th - 19th 2010 2010.
148. Couturier N, Gourraud PA, Comabella M, Weber F, Muller-Myhsok B, Goertsches R, Vandebroek K, Schmit E, Debouverie M, Lebrun-Frenay C, Lepage E, Defer G, Moreau T, Vukusic S, Mrejen S, Edan G, Bucciarelli F, Rabadeux C, Parmentier L, Merle H, Cournu-Rebeix I, Gout C, Clanet M, Fontaine B, Brassat D. "IFN beta-Pathway Gene Polymorphisms Influence Response to Multiple Sclerosis Treatment. A European Study." *Neurology* 2009;72:A8-A8.
149. Gourraud PA, Dilger JB, Fourtine F, Cambon-Thomsen A. "HLA & microsatellites haplotypes in tag strategy." *Tissue Antigens* 2009;73:479-479.
150. Textoris J, Loriod B, Benayoun L, Huet O, Gourraud PA, Antonini F, Puthier D, Mantz J, Martin C, Nguyen C, Leone M. "TRANSCRIPTOME ANALYSIS OF VENTILATOR ASSOCIATED

PNEUMONIA IN TRAUMA PATIENTS THE SEPSICHIP PROJECT." Intensive Care Medicine 2009;35:90-90.

151. Boyer J, Davignon JL, Gourraud PA, Nigon D, Jamard B, Faucon B, Baron M, Cantagrel A, Constantin A. "Association of rank1 and rank gene Polymorphisms with erosive status in patients included in an early arthritis cohort." Arthritis and Rheumatism 2008;58:S213-S213.

152. Mattera L, Escaffit F, Pillaire MJ, Selves J, Tyteca S, Hoffmann JS, Gourraud PA, Chevillard-Briet M, Cazaux C, Trouche D. "Critical role of the Tip60/p400 ratio in the proliferation of colorectal tumoral cells through the control of response pathways in DNA damage." Bulletin Du Cancer 2008;95:S45-S46.

153. Cambon-Thomsen A, Gourraud PA, Grzeczka G, Larre JM, Thomsen M. "Linkage disequilibrium patterns in the KIR cluster: several point of view on the same non independent association of KIR genes polymorphisms." Tissue Antigens 2008;72:P-116.

154. Shehab H, Buscail L, Bournet B, Gourraud PA, Escourrou J. "Safety and efficacy of endoscopic ampullectomy in tumors with and without intraductal growth and predictive factors of success: A prospective trial." Gastrointestinal Endoscopy 2008;67:AB162-AB163.

155. Vidan-Jeras B, Kovac D, Voncina J, Haasnoot G, Gourraud PA, Cambon-Thomsen A, Claas FHJ, Doxiadis IIN. "Joining a large organ exchange organisation: implications for a single center country." Tissue Antigens 2008;71:375-375.

156. Gourraud PA, Cambon-Thomsen A, Consortium M. "Microsatellite based approach to predict frequent HLA phenotype: the uses of linkage disequilibrium in MHC." Tissue Antigens 2008;71:366-367.

157. Cambon-Thomsen A, Gourraud PA, Larre JM, Thomsen M. "Surfing on coherent HLA region microsatellite data from the literature: the MAMSat database and its user queries." Tissue Antigens 2008;71:350-350.

158. Constantin A, Gourraud PA, Boyer JF, Nigon D, Faucon B, Jamard B, Cambon-Thomsen A, Davignon JL, Cantagrel A. "Association of haplotypes of collagenase-1 and stromelysin-1 polymorphisms with erosive status in early rheumatoid arthritis." Tissue Antigens 2008;71:342-342.

159. Barnetche T, Constantin A, Cantagrel A, Cambon-Thomsen A, Gourraud PA. "Relevance of the HLA-DRB1 shared epitope allele's classification in rheumatoid arthritis: an overview of previous findings." Tissue Antigens 2008;71:341-341.

160. Cambon-Thomsen A, Grzeczka G, Gourraud PA, Larre J, Thomsen M. "Making the MAMSat database and its user queries operational." Tissue Antigens 2008;72:310-311.

161. Gourraud PA, Meenagh A, Cambon-Thomsen A, Middleton D. "Linkage disequilibrium patterns in the KIR cluster: several point of view on the same non independent association of KIR genes polymorphisms." Tissue Antigens 2008;72:299-299.

162. Gourraud PA, Meenagh A, Cambon-Thomsen A, El-Kadhi N, Middleton D. "Haplotype estimation using KIR genotypes: combining familial and population data in order to use KIR linkage disequilibrium in association study." Tissue Antigens 2008;72:298-299.

163. Nordang GBN, Gourraud PA, Viken MK, Constantin A, Cambon-Thomsen A, Thorsby E, Forre O, Kvien TK, Lie BA. "The Tezenas du Montcel classification of HLA-DRB1 alleles in Norwegian rheumatoid arthritis patients differentiates clinical manifestations." *Tissue Antigens* 2008;71:276-276.
164. Gourraud PA, Siquier L, Meenagh A, Cambon-Thomsen A, Kadhi NE, Middleton D. "Haplotype estimation using KIR genotypes: combining familial and population data in order to use KIR linkage disequilibrium in association study." *Tissue Antigens* 2008;71:272-272.
165. Eberhard HP, Gourraud PA, Muller CR. "Facts and fiction in the calculation of genetic distances." *Tissue Antigens* 2008;72:264-265.
166. Eberhard HP, Feldmann U, Appert ML, Gourraud PA, Torres HM, van der Zanden H, Maiers M, Marsh S, Muller CR. "Validation of programs for haplotype frequency estimation from registry data." *Tissue Antigens* 2008;72:264-264.
167. Eberhard HP, Appert ML, Gourraud PA, Gragert L, Torres HM, Steiner D, van der Zanden H, Maiers M, Marsh S, Muller CR. "Comparing different programs for HLA haplotype frequency estimation in a controlled data environment." *Tissue Antigens* 2008;72:263-264.
168. Merlet V, Gonzales H, Georges B, Gourraud PA, Cougot P, Samii K. "Intérêt de la position proclive sur le recrutement alvéolaire chez les patients intubés ventilés." *Congrès 2008 de la Société de Réanimation de Langue Française 16-18 janvier 2008* 2008.
169. Schmit E, Gourraud PA, Couturier N, Le Page E, Vukusic S, Debouverie M, Defer GL, Lebrun C, Frangoulis B, Achiti J, Merle H, Edan G, Fontaine B, Clanet M, Brassat D. "Early prediction of the long-term response to interferon beta in relapsing-remitting multiple sclerosis patients." *Multiple Sclerosis* 2007;13:S58-S59.
170. Gourraud PA, Meenagh A, Middleton D, Cambon-Thomsen A. "KIR region diversity studied by haplotype combination from family study." *Tissue Antigens* 2007;69:P-068.
171. Gourraud PA, Feolo M, Dauber E, Mayr W, Thomsen M, Mickelson E, Hansen J, Shiina T, Doxiadis G, Cambon-Thomsen A. "Overall achievements of the HLA region microsatellites international working group following the 14th IHIWS." *Tissue Antigens* 2007;69:P-060.
172. Cambon-Thomsen A, Gourraud PA, Barnetche T, Rial-Sebbag. "Issues in data access following large scale genetic studies: promoting data sharing and protecting individuals, contradictory requirements?" *Tissue Antigens* 2007;69:P339.
173. Barnetche T, Cambon-Thomsen A, Constantin A, Gourraud PA. "Classification of HLA-DRB1 shared epitope alleles in rheumatoid arthritis: a meta-analysis of data from XIIITH IHWG on rheumatoid arthritis. ." *Tissue Antigens* 2007;69:P051.
174. Pillaire MJ, Selves J, Delsol G, Theillet C, Cazaux C, Gourraud PA, Danjoux M, Orsetti B, Bieth A, Gordien K, Guimbaud R, Grosclaude P, Hoffmann JS. "3R as a pejorative signature of illness." *Bulletin Du Cancer* 2007;94:P48.
175. Jolibert S, Gourraud PA, Saint-Blancat J, Derre M, Larre JM, Thomsen AC, Thomsen M. "Developing the MAMSat database and user queries." *Tissue Antigens* 2007;69:526-526.

176. Middleton D, Meenagh A, Gourraud PA. "KIR haplotype content at the allele level in 77 northern Irish families." *Tissue Antigens* 2007;69:429-430.
177. Middleton D, Meenagh A, Gourraud PA. "KIR haplotype content at the allele level in 77 northern Irish families." *International Journal of Immunogenetics* 2007;34:294-295.
178. Barnetche T, Constantin A, Cantagrel A, Cambon-Thomsen A, Gourraud PA. "NEW CLASSIFICATION OF HLA-DRB1 ALLELES IN RHEUMATOID ARTHRITIS SUSCEPTIBILITY: A META-ANALYSIS ON WORLDWIDE SAMPLES." *Ann Rheum Dis* 2007;66:126.
179. Boyer JF, Jaffar A, Constantin A, Cantagrel A, Mazières B, Gourraud PA, Tack I, Laroche M. "Diabète phosphoré idiopathique de l'adulte : évaluation du taux de FGF23 et prise en charge en rhumatologie." XXème Congrès Français de Rhumatologie 2-5 Décembre 2007, Paris 2007.
180. Camacho M, Gourraud PA, Cantagrel A, Constantin A. "Méta analyse de l'efficacité clinique des différentes biothérapies chez des patients atteints d'une polyarthrite rhumatoïde ayant une réponse inadéquate au Méthotrexate." XXème Congrès Français de Rhumatologie 2-5 Décembre 2007, Paris 2007.
181. Constantin A, Gourraud PA, Boyer JF, Nigon D, Faucon B, Jamard B, Davignon JL, Cantagrel A. " Association of Haplotypes of MMP1 and MMP3 Polymorphisms with Erosive Status in Early Rheumatoid Arthritis." ACR/ARHP Annual Scientific Meeting 2007 Boston, MA, November 6-11 2007.
182. Plaut-Gaty MA, Cantagrel A, Fournié B, Zabraniecki L, Gourraud PA. "Prévalence des anticorps anti-protéines citrullinées dans le rhumatisme psoriasique : analyse systématique de la littérature et méta-analyse." XXème Congrès Français de Rhumatologie 2-5 Décembre 2007, Paris 2007.
183. Cambon-Thomsen A, Antic J, Gourraud PA, Raffoux C. "Population genetics analysis of the French haematopoietic stem cell donor Registry " *Tissue Antigens* 2006;67:443-583 565 P-276.
184. Gourraud PA, Hoffman D, Cambon-Thomsen A, Feolo M. "The dbMHC Microsatellite Portal: A Public Resource for the Storage and Display of MHC Microsatellite Information." *Tissue Antigens* 2006;67:443-583 526 P-173.
185. Feve F, Cambon-Thomsen A, Eliaou JF, Gourraud PA, Raffoux C, Florens JP. " Economic analysis of the Organization of a Registry of Hematopoietic Stem Cell Donors." *Tissue Antigens* 2006;67:443-583 514 P-145.
186. Thomsen M, Gourraud PA, Derré M, Larré JM, Barnetche T, Cambon-Thomsen A. "The MAMSat project, a literature based tool for the use of HLA-region microsatellites." *Tissue Antigens* 2006;67:443-583 468 P-021.
187. Gourraud PA, Gagne K, Bignon JD, Cambon-Thomsen A, Middleton D. "KIR haplotype estimation using unrelated genotypes: a constrained maximum likelihood method." *Tissue Antigens* 2006;67:443-583 562 P-269.
188. Constantin A, Gourraud PA, Boyer JF, Barnetche T, Serre G, Cambon-Thomsen A, Cantagrel A. "Classification of HLA-DRB1 alleles differentiates predisposing and protective

alleles for structural severity and anti-citrullinated peptide antibodies in rheumatoid arthritis." *Ann Rheum Dis* 2006;65:290.

189. Constantin A, Plaut-Gaty MA, Gourraud PA, Boyer JF, Cambon-Thomsen A, Mazières B, Cantagrel A. "Haplotypes de polymorphismes des promoteurs des gènes des métalloprotéases matricielles et progression de la sévérité structurale de la polyarthrite rhumatoïde débutante. ." XIX^{ème} Congrès Français de Rhumatologie 03-06 Décembre 2006, Paris 2006.

190. Fève-Chapron F, Gourraud PA, Raffoux C, Cambon-Thomsen A, Florens J. "Simulation-based model for Registry construction to optimize compatible donor provision from hematopoietic stem cell Registrise." *Gene and Immunity* 2005;Volume 6:S74-242.

191. Barnetche T, Gourraud PA, Cambon-Thomsen A, Cantagrel A, Constantin A. "HLA microsatellites polymorphisms and susceptibility to rheumatoid arthritis." *Gene and Immunity* 2005;Volume 6,:S36-91.

192. Gourraud PA, Betard C, Raffoux C, Sacchi N, Rajczy K, Oudshoorn M, Gut I, Eliaou J, Claas F, Cambon-Thomsen A. "Correlation of frequent HLA Haplotype with HLA microsatellite haplotypes." *Gene and Immunity* 2005;Volume 6:S35-87.

193. Rajczy K, Gourraud PA, Van Der Zanden H, Pozsonyi E, Dobos A, Padányi A, Gyódi E, Petrányi G, Cambon-Thomsen A. "Population genetics in the hungarian marrow donors registry: The contribution of minorities." *Gene and Immunity* 2005;Volume 6:S27-56.

194. Derrre M, Gourraud PA, Larre JM, Thomsen M, Cambon-Thomsen A. "Towards a Meta-analysis of HLA Region Microsatellites, the MAMSat Project." *Tissue Antigens* 2005;66:562-601.

195. Gourraud PA, Barnetche T, Boyer JF, Cambon-Thomsen A, Cantagrel A, Constantin A. "Predisposing and Protective Alleles for Rheumatoid Arthritis Structural Severity According to a New Classification of HLA-DRB1 Alleles." *Tissue Antigens* 2005;66:433 -247.

196. Fève F, Gourraud PA, Cambon-Thomsen A, Florens JP. "Matching Models and Optimal Registry for Voluntary Organ Donation Registrise." *Tissue Antigens* 2005;66:432 -246.

197. Gourraud PA, Feolo M, Cambon-Thomsen A. "Microsatellites in HLA Region Development of Interface at NCBI'S DBMHC." *Tissue Antigens* 2005;66:432 -245.

198. Gourraud PA, Denis L, Bignon JD, Middleton D, Cambon-Thomsen A. "Haplotype Estimation Using KIR Genotypes: A Constrained Maximum Likelihood Method." *Tissue Antigens* 2005;66:432 -244.

199. Gourraud PA, Bétard C, Raffoux C, Sacchi N, Rajczy C, Oudshoorn M, Eliaou JF, Gut I, Claas FHJ, Cambon-Thomsen A. "Strong Linkage Disequilibrium Demonstrating the Microsatellite Haplotypes Predictive Power on HLA Genes." *Tissue Antigens* 2005;66:431 -243.

200. Cambon-Thomsen A, Gourraud PA. "Association between HLA Region Microsatellites (MSAT) and HLA Genes in the MADO Project Data Set: Any Use in the Context of Registry Strategy?" *Tissue Antigens* 2005;66:372 - 382.

201. Barnetche T, Cantagrel A, Constantin A, Gourraud PA, Cambon-Thomsen A. "HLA Microsatellite Polymorphisms and Susceptibility to Rheumatoid Arthritis. ." *Ann Rheum Dis* 2005;64:113.

202. Barnetche T, Constantin A, Gourraud PA, Cantagrel A, Cambon-Thomsen A. "Polymorphismes de séquences microsatellites de la région HLA et susceptibilité à la polyarthrite rhumatode." XVIIIème Congrès Français de Rhumatologie 04-07 Décembre 2005, Paris 2005.
203. Gourraud PA, Boyer JF, Barnetche T, Cantagrel A, Cambon-Thomsen A, Constantin A. "Nouvelle classification des allèles HLA-DRB1 permettant de distinguer dans la sévérité structurale de la polyarthrite rhumatode, facteurs protecteurs et facteurs prédisposant. ." XVIIIème Congrès Français de Rhumatologie 04-07 Décembre 2005, Paris 2005.
204. Feve-Chapron F, Gourraud PA, Cambon-Thomsen A, Florens J-P. "Model of Donors registries optimal HLA composition." *Gene and immunity* 2004;5:S25-98.
205. Constantin A, Dieudé P, Gourraud PA, Serre G, Cambon-Thomsen A, Mazières B, Cornélis F, Cantagrel A. "Peptidylarginine Deiminase 4 Gene Polymorphisms and Autoantibodies to Cyclic Citrullinated Peptides in the Prognosis of Rheumatoid Arthritis." 68th Annual Scientific Meeting of the American College of Rheumatology October 16-21, 2004 in San Antonio, Texas 2004.
206. Gourraud PA, Baouz A, Raffoux C, Cambon-Thomsen A. "Use of haplotype information in the search for compatible donor: example in france." P-99.
207. Gourraud PA, Vand der ZH, Raffoux C, Eliaou J, Cambon-Thomsen A. "What is a frequent HLA Haplotype." P-98.
208. Gourraud PA, Bétard C, Raffoux C, Cambon-Thomsen A. Microsatellites in the HLA region, Association with HLA alleles and HLA haplotypes. In: 7th Asia Oceania Histocompatibility Conference; 2003:55.
209. Gourraud PA, Baouz A, Raffoux C, Cambon-Thomsen A. "Use of haplotype information in the search for compatible donor: example in france."
210. Gourraud PA, Raffoux C, Cambon-Thomsen A. "Implication of population genetics dimension in unrelated bone marrow transplantation organisation." P0529.
211. Cambon-Thomsen A, Gourraud PA, Essaket S. "MADO, A European project."
212. Gourraud PA. "Optimisation des registres Européens de Donneurs volontaires de cellules souches hématopoétiques."
213. Gourraud PA, Froger P, Cambon-Thomsen A. "Microsatellites et SNP de la région HLA."

RESEARCH PROGRAM

My overall goal is to develop data-driven models tackling biomedical variability that will support personalized medicine applications. The approach is anchored in the last decade explosion of immuno-genomic and epidemiologic data with particular emphasis in current works in Multiple Sclerosis and previous achievements in hematopoietic stem cells transplantation. Models of data collection, storage and consumption combines the use of large cohorts of well-characterized patients and members of their families, integrated databases of clinical/demographic information, environmental exposure, brain eye and spinal cord imaging as well as genetic data. The statistical integration of multiple data sources of high dimension from integrated genomics in epidemiological cohort to Electronic Medical Records and direct to patients information

coordinate two perspectives: at population level, it will facilitate biological interpretation and will play a growing role in the design of functional experiments and at an individual level, it will promote the interpretation of individual characteristics in the context of reference population data.

My research will specifically involve:

- Development of a personalized medicine application for Multiple Sclerosis, the MS Bioscreen including methods and procedure for cloud-based data storage and access.
- Development of comparative and predictive algorithms that put in context individual patient longitudinal data.
- Introduction of innovative statistical methods in MS genomics such as equivalence based statistics, voxel-based processing of MRI data stored in the cloud.
- Risk modeling of MS extending genetics-based model to the integration of environmental factors and lifetime exposures and disease course and investigating the association with disease characteristics.
- Multi-allelic multi-markers Linkage-Disequilibrium dissection in structurally variable and highly polymorphic regions of the genome.
- Haplotype frequencies and genetic association estimation in KIR and MHC regions by maximum likelihood.

My research program will also intend to seek for commonalities between the genetic determinants of auto-immune response to self-tissue antigens and the genetic determinants of graft related allo-immune response. The presented genetic and statistical approaches are heavily influenced by my former studies of the philosophical of process philosophy which emphasize on the changing nature of reality rather than on accidental changes to its substance. Comparing systematically individuals to (a) reference group(s) renews the philosophical question of individuation and question the seemingly self-contradictory nature of “personalized” medicine based on population data: some “common” is needed to define the “personal”. Furthermore, the analysis of a life-long disease like MS appeal to process rather than fixed categories : the “personal” by its trajectory demonstrating that a strong epistemological understanding of how sciences develop concepts and norms is needed to address the intermingling complexity of research progress and clinical practice.

SIGNIFICANT PUBLICATIONS

1. **Gourraud PA**, Henry R, Cree BAC, Crane J, Lizée A, Olson MP, Santaniello AV, Datta E, Zhu AH, Bevan CJ, Gelfan JM, Graves JA, Goodin DE, Green A, n von Büdingen HC, Waubant E, Zamvil S, Crabtree-Hartman E, Nelson S, Oksenberg JR, Baranzini SE, Hauser SL "Precision medicine in chronic disease management: the MS BioScreen" *Annals of Neurology*. 2014 in press (IF-11.91)

In this study we present a functional prototype of a Precision medicine application developed for Multiple Sclerosis. It illustrates the recent orientation of my research that combines strong epidemiological background that maximize the use of one of the largest Multiple Sclerosis cohort (MS- EPIC at UCSF of whom I am an investigator), Bio-medical informatics that encompasses innovative cloud-based Database infrastructure and front-end development of tablet application, and Bio-statistical modelling that achieve comparison of individual data and real-time

computation of normality assessment. We introduce three key evolutionary phases in displaying data to health care providers, patients, and researchers: visualization (accessing data), contextualization (understanding the data), and actionable interpretation (real-time use of the data to assist decision-making). Together these form the stepping-stones that are expected to accelerate standardization of data across platforms, promote evidence-based medicine, support shared decision-making, and ultimately lead to improved outcomes.

2. **Gourraud PA**, Khankhanian P, Cereb N, Yang SY, Feolo M, Maiers M, D Rioux J, Hauser S, Oksenberg J. HLA Diversity in the 1000 Genomes Dataset. *PLoS One*. 2014; 9(7):e97282. PMID: 24988075. PMCID: PMC4079705 (IF- 3.53)

In this paper I used classical Sequence base techniques to type the HLA-A, HLA-B, HLA-C, HLA-DRB1 and HLA-DQB1 genes in the pivotal reference panel of the genomic community the "1000 Genomes samples". I have provided this resource with highest standard of genetic characterization used in the HLA community for transplantation. This represent the bridge between genomics of a research that holds promises for future treatments with the genetics of HLA that has largest impact of genetics in health, and health organization as a major determinant of outcome in transplantation. I also presented analysis that compare the MHC region to other region of the genome and its implication for evolution, association studies and ancestry analysis.

3. **Gourraud PA**, Sdika M, Khankhanian P, Henry RG, Beheshtian A, Matthews PM, Hauser SL, Oksenberg JR, Pelletier D, Baranzini SE. A genome-wide association study of brain lesion distribution in multiple sclerosis. *Brain*. 2013 Apr; 136(Pt 4):1012-24. PMID: 23412934

We have identified genetic variants that may alter the architecture of brain lesions pattern in MS patients. In this work, have combined two techniques and data-sets that are usually used separately to investigate MS: voxel- based MRIs of brain lesions and the genome-wide genotype data. I used statistical methods to reduce the dimension of both the genetic (half million marker) data and the MRI data (60,000 voxels) so that these can be study in conjunction. I wrote algorithms to cluster brain lesion and create summary metric of the lesion pattern characteristics.

4. Isobe N, Damotte V, Lo Re V, Ban M, Pappas D, Guillot-Noel L, Rebeix I, Compston A, Mack T, Cozen W, Fontaine B, Hauser SL, Oksenberg JR, Sawcer S, **Gourraud PA**. Genetic burden in multiple sclerosis families. *Genes Immun*. 2013 Aug 1. PMID: 23903824

We estimated the individual genetic burden of MS families members and assess its properties as a summary measure resulting from the effect of 64 single-nucleotide polymorphism (SNP) MS risk bio-markers. A total of 708 controls, 3251 MS patients and their relatives, as well as 117 twin pairs were analyzed coordinating the effort of 3 leading MS centers in US UK and France. I designed the study and supervised the work three post-docs involved in the project. This work illustrates the need for integrating the most up to date results from GWAS at the individual level : "from individual sample collection to large-population statistical analysis and back"

5. P. Ducournau; **PA Gourraud**; E. Rial-Sebbag, A. Cambon-Thomsen, A. Bulle Direct-to-consumer health genetic testing services: What commercial strategies for which socio-ethical issues? *Health Sociology Review* 2013, Vol. 22, No. 1: 75–87

For this study I fruitfully Interacted with researchers in social sciences and philosophy provided the key ideas of the research plan. We have analyzed the emerging field of direct-to-consumer genetic testing which I believe, has many echos in the field of personalized medicine. We define the normative framework emerging from Direct-to consumer genetic testing which has commonalities with direct “data-driven” interactions in Personalized Medicine

resulting in (I) centering care on individual patients, satisfying their desire to be the actors of their own health-care decisions; (II) accelerating promotion of health to the top of our social values, and (III) redefining behavior and actions along bio-social relationships.

6. **Gourraud PA**, Le Gall C, Puzenat E, Aubin F, Ortonne JP, Paul CF. Why statistics matter: limited inter-rater agreement prevents using the psoriasis area and severity index as a unique determinant of therapeutic decision in psoriasis. *J Invest Dermatol.* 2012 Sep; 132(9):2171-5.

I designed the study and perform the simulation demonstrating the poor level of validation of the leading score of severity assessment in psoriasis. This study started by an educational talk in statistics about validation of scales used in medicines and the simulation-based example I created for that ended up being the substrate for an original article in a specialty journal. It illustrates the concern of my research with validation of high quality measures supporting decision making and practice of medicine.

7. **Gourraud PA**, Gilson L, Girard M, Peschanski M. The role of human leukocyte antigen matching in the development of multiethnic Stem Cells. 2012 Feb;30(2):180-6

In this publication I bridge the gap between probabilistic modelling, HLA haplotype diversity, and evolution IPS cell lines haplobank in regenerative medicine. This work is also relevant to the study of MS because HLA homozygous IPS cell line would also provide a simplified system to study and compare the role of HLA genetic background in the functional experiment driven by MS genetics studies.

8. **Gourraud PA**, McElroy JP, Caillier SJ, Johnson BA, Santaniello A, Hauser SL, Oksenberg JR. Aggregation of multiple sclerosis genetic risk variants in multiple and single case families. *Ann Neurol.* 2011 Jan; 69(1):65-74. PMID: 21280076

I designed an implementation of a novel approach to model the genetic contributions to multiple sclerosis (MS). The study was completed using a large MS familial data-set (n=1250). The manuscript that I wrote demonstrated the higher aggregation of susceptibility variants in multi-case, compared to sporadic MS families. Despite the emphasis in assembling large case-control data-sets for Genome Wide Association Studies, multi-generational, multi-affected families remain an invaluable resource for advancing the understanding of the genetic architecture of complex traits. This original method would apply to other complex diseases.

9. **Gourraud PA**. When is the absence of evidence, evidence of absence? Use of equivalence-based analyses in genetic epidemiology and a conclusion for the KIF1B rs10492972*C allelic association in multiple sclerosis. *Genet Epidemiol.* 2011 Sep; 35(6):568-71. PMID: 21594895

In this study using data from the International Multiple Sclerosis genetic consortium (IMSGC), I developed and applied equivalence statistical methods to rule out previously published association between MS risk and KIF1B gene. This works illustrates my interest on developing innovative statistical methods as well as providing the most appropriate statistical framework to ensure robustness of findings,

10. McElroy JP, Cree BA, Caillier SJ, Gregersen PK, Herbert J, Khan OA, Freudenberg J, Lee A, Bridges SL, Hauser SL, Oksenberg JR, **Gourraud PA**. Refining the association of MHC with multiple sclerosis in African Americans. *Hum Mol Genet.* 2010 Aug 1; 19(15):3080-8. PMID: 20466734

This study is a case-control discovery replication association analysis of 6040 MHC region Single Nucleotide Polymorphisms (SNPs). I contributed to the coordination of the many components of the analysis and performed two pivotal pieces of the study: 1- I developed an equivalence-based statistical test in order to show that the MHC seems to play a smaller role in MS susceptibility in African Americans than in patients of European descent. 2- I performed a tagging analysis of the Human Leucocyte Antigen (HLA) alleles by the SNPs associated to MS in African Americans in order to relate the MHC SNP polymorphism to the HLA allelic polymorphism. I contributed to the research design, writing of the manuscript and to addressing the reviewers concerns.