


TOTAL PRODUCTION


Nom de l'équipe : Information Science to support Personalized Medicine

Nom du directeur pour le contrat en cours : Anita BURGUN

Nom du directeur pour le contrat à venir : Anita BURGUN

I. PRODUITS DE LA RECHERCHE

Publications of staff recruited during the last five years and done in their previous team are flagged with 

Publications done in collaboration with another team of the CRC are flagged with 

1. Journaux / revues

Articles scientifiques

2017

1. Abdellaoui R., Schuck S., Texier N., Burgun A., 2017. Filtering entities to optimize ADR identification from social media: how can the number of words between entities in the messages help? JMIR Public Health Surveill. 2017 Jun 22;3(2):e36. doi: 10.2196/publichealth.6577.
2. Garcelon N., Neuraz A., Benoît V., Kracker S., Suarez F., Hadj-Rabia S., Salomon R., Fischer A., Munnich A., Burgun A. Finding patients using similarity measures in a rare diseases oriented clinical data warehouse: Dr. Warehouse and the needle in the needlestack JBI in press
3. Chen X., Deldossi M, Aboukhamis R, Faviez C, Dahamna B. Karapetiantz P, Guenegou-Arnoux A., Guillemin-Lanne S, Lillo-Le-Louët A, Texier N, Burgun A., Katsahian S., 2017. Mining adverse drug reactions in social media with named entity recognition and semantic methods, Medinfo 2017 (in press)
4. Ethier J-F, Curcin V, McGilchrist MM, Lim Choi Keung SN, Zhao L, Andreasson A, Brodka P, Radoslaw M, Arvanitis T.N., Mastellos N, Burgun A., Delaney BC., 2017. eSource for clinical trials: implementation and evaluation of a standards-based approach in a real world trial. Int J Med Inform 2017 (in press) <https://doi.org/10.1016/j.ijmedinf.2017.06.006>
5. Burgun A., Bernal-Delgado E, Kuchinke W, van Staa T., Cunningam J., Lettieri E, Mazzali C., Oksen D, Estupiñan F, Barone A, Chêne G. Health data for public health: towards new ways of combining data sources to support research efforts in Europe, Yearb Med Inform. 2017 (in press)
6. Auclin, E., Charles-Nelson, A., Abbar, B., Guerot, E., Oudard, S., Hauw-Berlemont, C., Thibault, C., Monnier, A., Diehl, J.-L., Katsahian, S., Fagon, J.-Y., Taieb, J., Aissaoui, N., 2017. Outcomes in elderly patients admitted to the intensive care unit with solid tumors. Ann Intensive Care 7, 26. doi:10.1186/s13613-017-0250-0

7. Barat, M., Fohlen, A., Cassinotto, C., Jannot, A.S., Dautry, R., Pelage, J.-P., Boudiaf, M., Pocard, M., Eveno, C., Taouli, B., Soyer, P., Dohan, A., 2017. One-month apparent diffusion coefficient correlates with response to radiofrequency ablation of hepatocellular carcinoma. *J Magn Reson Imaging* 45, 1648–1658. doi:10.1002/jmri.25521
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9. Bibault, J.-E., Burgun, A., Giraud, P., 2017. [Artificial intelligence applied to radiation oncology]. *Cancer Radiother* 21, 239–243. doi:10.1016/j.canrad.2016.09.021
10. Commereuc, M., Guerot, E., Charles-Nelson, A., Constan, A., Katsahian, S., Schortgen, F., 2017. ICU Patients Requiring Renal Replacement Therapy Initiation: Fewer Survivors and More Dialysis Dependents From 80 Years Old. *Crit Care Med*. doi:10.1097/CCM.0000000000002407
11. Dohan, A., Hoeffel, C., Soyer, P., Jannot, A.S., Valette, P.-J., Thivolet, A., Passot, G., Glehen, O., Rousset, P., 2017. Evaluation of the peritoneal carcinomatosis index with CT and MRI. *Br J Surg*. doi:10.1002/bjs.10527
12. Eymard, F., Charles-Nelson, A., Katsahian, S., Chevalier, X., Bercovy, M., 2017. Predictive Factors of “Forgotten Knee” Acquisition After Total Knee Arthroplasty: Long-Term Follow-Up of a Large Prospective Cohort. *J Arthroplasty* 32, 413–418.e1. doi:10.1016/j.arth.2016.06.020
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15. Hee, S.W., Willis, A., Tudur Smith, C., Day, S., Miller, F., Madan, J., Posch, M., Zohar, S., Stallard, N., 2017. Does the low prevalence affect the sample size of interventional clinical trials of rare diseases? An analysis of data from the aggregate analysis of clinicaltrials.gov. *Orphanet J Rare Dis* 12, 44. doi:10.1186/s13023-017-0597-1
16. Jannot, A.-S., Burgun, A., Thervet, E., Pallet, N., 2017a. The Diagnosis-Wide Landscape of Hospital-Acquired AKI. *Clin J Am Soc Nephrol*. doi:10.2215/CJN.10981016
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Autres articles (articles publiés dans des revues professionnelles ou techniques, etc.)

Idem.

2. Ouvrages

Monographies et ouvrages scientifiques, éditions critiques, traductions

Direction / édition scientifique

Editor of the book : Medical Informatics, e-Health: fundamentals and applications, Springer Verlag, New York, Health informatics series, Venot A, Quantin C, Burgun A eds, Springer 2014

Chapitres d'ouvrage

Chapters DUCLOS C, BURGUN A, LAMY JB, LANDAIS P, RODRIGUES JM, SOUALMIA L, ZWEIGENBAUM P. Medical vocabulary, terminological resources, information coding in the health domain. e-Health: fundamentals and applications 2014 , Springer : 11-41.

Thèses publiées / éditées

3. Colloques / congrès, séminaires de recherche

Éditions d'actes de colloques / congrès

Bodenreider, B Rance (Eds). *Data Integration in the Life Sciences: 8th International Conference, DILS 2012, College Park, MD, USA, June 28-29, 2012*. Springer Publishing Company, Incorporated. 2012

Articles publiés dans des actes de colloques / congrès

1. Loïc Devilliers, Xavier Pennec, and Stéphanie Allasonnière. Inconsistency of Template Estimation with the Fréchet mean in Quotient Space. In *Information Processing in Medical Imaging 2017*, Boone, United States, June 2017.
2. I. Koval, J.-B. Schiratti, A. Routier, M. Bacci, O. Colliot, S. Allasonnière, S. Durrleman. Statistical Learning of Spatiotemporal Patterns from Longitudinal Manifold-Valued Networks. MICCAI 2017
3. R. Besson, E. Le Pennec, S. Allasonnière. Optimisation d'arbre de décision pour un problème de détection précoce d'anomalies foetales. JDS2017.
4. Zhao L, Lim Choi Keung SN, Golby C, Ethier JF, Curcin V, Bastiaens H, Burgun A, Delaney BC, Arvanitis TN. "EU FP7 TRANSFoRM Project: Query Workbench for Participant Identification and Data Extraction", Papers/Podium Presentations. In 2015 AMIA Clinical Research Informatics Summit, San Francisco, CA: USA, March 2015
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6. Escudie, J.-B., Jannot, A.-S., Zapletal, E., Cohen, S., Malamut, G., Burgun, A., Rance, B., 2015. Reviewing 741 patients records in two hours with FASTVISU. AMIA Annu Symp Proc 2015, 553–559.
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9. F. Deloche, F. De Vico Fallani, S. Allasonnière. Innovation-based sparse estimation of functional connectivity from multivariate autoregressive models. *Proc. SPIE* 9597, Wavelets and Sparsity XVI, 95971I (August 24, 2015); doi:10.1117/12.2189640;

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10. J-B. Schiratti, S. Allasonnière, O. Colliot, S. Durrleman. Mixed-effects model for the spatiotemporal analysis of longitudinal manifold-valued data. MFCA 2015
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12. J.B. Schiratti, S. Allasonnière, O. Colliot, S. Durrleman. A mixed effect model with time reparametrization for longitudinal univariate manifold valued data. Information Processing in Medical Imaging (IPMI) 2015
13. Barton A., Rosier A, Burgun A, Ethier J.-F. The Cardiovascular Disease Ontology, Proceedings of the 8th International Conference on Formal Ontology in Information Systems (FOIS), 409-414, P. Garbacz & O. Kutz (Eds.), Amsterdam: IOS Press. (FOIS 2014 ontology competition winner)
14. H. Xu, B. Thirion and S. Allasonniere. Bayesian Estimation of Probabilistic Atlas for Anatomically-Informed Functional MRI Group Analyses. MICCAI, Nagoya, 2013
15. I. Rekik, S. Allasonnière, T. Carpenter and J. Wardlaw. A 4D Patient-specific metamorphosis-based method to model ischemic stroke lesion evolution from acute diffusion-weighted to final T2-defined outcome. International Stroke Conference, Honolulu, 2013.
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18. Dameron O, Besana P, Zekri O, Bourde A, Burgun A, Cuggia M. OWL model of clinical trial eligibility criteria compatible with partially-known information. In Proceedings of the Semantic Web for Life Sciences workshop SWAT4LS2012, 2012
19. I. Rekik, S. Allasonniere, S. Durrleman, T.K. Carpenter, J.M. Wardlaw, 4D spatio-temporal perfusion-diffusion Evolution scenarios estimation in Acute-subacute ischemic stroke. ISMRM, Melbourne, 2012.
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Autres produits présentés dans des colloques / congrès et des séminaires de recherche

4. Développements instrumentaux et méthodologiques

Prototypes et démonstrateurs

La liste de ces produits de la recherche n'a pas à être exhaustive. On mettra en évidence les réalisations les plus significatives.

Plateformes et observatoires

CARPEM Translational Research Platform. A platform dedicated to handling the data produced by the researchers of the CARPEM research program. The platform provides tools designed to assist the researcher in the exploration of their data including tranSMART.

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5. Produits et outils informatiques

Logiciels

Dr Warehouse - A document- oriented data warehouse. Garcelon N.

BioPancarte - A web tool to personalize the visualization of biological results. Garcelon N.

Gecko - A web tool to manage clinical studies : patient inclusion, consentment, encounter, follow up. Garcelon N.

Auxo - A web tool to record, visualize and share growth curves. Garcelon N.

dfmta: R cran statistical package. Phase I/II Adaptive Dose-Finding Design for MTA. MK Rivière and S Zohar

dfcomb: R cran statistical package. Phase I/II Adaptive Dose-Finding Design for Combination Studies. MK Rivière and S Zohar

dfpk: R cran statistical package. Bayesian Dose-Finding Designs using Pharmacokinetics(PK) for Phase I Clinical Trials. A Toumazi, M Ursino and S Zohar

Bases de données / cohortes

We collaborated with Necker/ Imagine clinicians/researchers and integrated their retrospective data into 70 newly developed databases / cohorts for Necker Hospital. These databases are national and international cohorts with an online access:

- Genius / Immunobiota : Patients with early-onset enteropathies.
- TED : Tumor and development
- SNIF : Syndrome Néphrotique Idiopathique de l'Enfant.
- GRex : Red cell biogenesis
- AGS : the Mendelian inflammatory disorder Aicardi-Goutières syndrome
- Bruton : Bruton disease

Corpus

Idem.

Outils présentés dans le cadre de compétitions de solveurs

Idem.

Outils d'aide à la décision

Charade : detection of fetal abnormalities in the CHARADE project (S. Allasonnière, N. Garcelon, A. Neuraz, A. Burgun)

6. Brevets, licences et déclarations d'invention

S. Allasonniere has filed a patent with Ecole Polytechnique, INRIA, CNRS and INSERM.

7. Rapports d'expertises techniques, produits des instances de normalisation

Idem.

8. Produits des activités didactiques

Ouvrages

Idem.

E-learning, moocs, cours multimedia, etc.

AS Jannot was member of the C2i group, developing on-line courses on e-health for medical students (<https://moodle.uspc.fr/course/index.php?categoryid=3&lang=en>). She was the representative of Paris Descartes University in that working group.

9. Produits destinés au grand public

Émissions radio, TV, presse écrite

Garcelon N. Interview for a publication in l'Express: Les États-Unis font main basse sur la médecine de demain. Stéphanie Benz, published October 14, 2016 - L'express

Produits de vulgarisation : articles, interviews, éditions, vidéos, etc.

Rance B. Clinical Data Warehouse for Personalized Medicine. CARPEM popularization videos on personalized medicine. December 2016.
[<https://www.youtube.com/watch?v=qugPbE293kg>]

Allasonnière S. Portrait in the *Infinités Plurielles* exhibition - February 2017.
[<http://www.enseignementsup-recherche.gouv.fr/cid74249/infinites-plurielles-140-scientifiques-vous-parlent-de-science.html>]

Garcelon N. Editorial for the Healthcare Data Institute : The production of healthcare data: ensuring that the system starts and ends with the patient. April, 19 2017.
[<http://healthcaredatainstitute.com/2017/04/19/the-production-of-healthcare-data-ensuring->

[that-the-system-starts-and-ends-with-the-patient/](#)

Produits de médiation scientifique

Idem.

Débats science et société

Idem.

10. Autres produits propres à une discipline

Créations artistiques théorisées

Idem.

Mises en scènes

Idem.

Films

Idem.

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I. ACTIVITÉS DE RECHERCHE ET INDICES DE RECONNAISSANCE

La liste de ces activités n'a pas à être exhaustive. On mettra en évidence les activités les plus significatives en termes de rayonnement et d'attractivité, d'interaction avec l'environnement et d'implication dans la formation par la recherche.

1. Activités éditoriales

Participation à des comités éditoriaux (revues, collections)

Patrice Degoulet was member of the editorial committee of the International Journal of Medical informatics until 2016.

Direction de collections et de séries

2. Activités d'évaluation

Responsabilités au sein d'instances d'évaluation

A Burgun is member of the scientific committee of INSERM/ AvieSan Public Health Institute.

A Burgun is member of the National University Committee (CNU) in Biostatistics and Medical Informatics (section 46-04)

Évaluation d'articles et d'ouvrages scientifiques

A Burgun is reviewer for AMIA, Applied Clinical Informatics, J. of Biomedical Semantics, J. of Biomedical Informatics.

B Rance is reviewer for Applied Clinical Informatics, IMIA Yearbook.

S. Allasonnière is reviewer for IEEE-TMI, IEEE-PAMI, IEEE_TSP, IJCV, JMIV, MedIA, SIIMS, International Journal of Biostatistics, Computer Methods and Programs in Biomedicine, NeuroImage, IRBM, MICCAI, CVPR, IPMI, GSI, JSPI.

S Zohar is reviewer for Lancet Oncology, Biometrics, Journal of the American Statistical Association, Statistics in Medicine, Journal of Biopharmaceutical Statistics, Pharmaceutical Statistics, Clinical Trials, Contemporary Clinical Trials, Biometrical journal, Applied Statistics.

M Ursino is reviewer for Statistics in Medicine, and Biometrical journal.

Évaluation de laboratoires (type Hceres)

S. Allasonniere has participated to the HCERES evaluation of the mathematics department of Poitiers university (UMR 7338).

Évaluation de projets de recherche

S. Allasonnière has evaluated several ANR research projects and was solicited by the university of Copenhagen for professor position evaluation, and by the CONICYT (Chilian equivalent of ANR) for project evaluation.

Comités de sélections

S. Allasonniere has been part of the selection committee of Professorship position in INSA Toulouse. She has also been evaluator for University of Copenhagen for professorship positions.

S Zohar has been part of the selection committee of associate professor position in University of Tours.

3. Activités d'expertise scientifique

Activités de consultant

S Zohar is involved in several Data Safety Monitoring Board for phase I in oncology.

S Zohar is providing methodological support for clinical trials in pediatrics at the Clinical Investigation Centre - Clinical Epidemiology 5 (CIC-EC, ICE 5), Hôpital Robert Debré for Children (Paris) and URC Hôpital HEGP (Paris).

Participation à des instances d'expertises (type Anses) ou de normalisation

Expertise juridique

Idem.

4. Organisation de colloques / congrès

Organisation

A Burgun and S Zohar have organized a French-Japanese symposium on “Extending Frontiers of Personalized Medicine via Bilateral Partnership, Lessons from population variability”, held in Paris,

We are co-organizing with AP-HP the annual European i2b2 conference in 2017. The conference will take place at Georges Pompidou hospital in early October 2017. A. Neuraz, B. Rance, and A. Burgun are members of the Organizing Committee.

A. Burgun, with the support of the INSERM Public Health Institute, and of INSERM Transfert, organized a workshop in Paris on Jan 9th, 2017 on the topic: “Designing a European infrastructure for maximising research on public health data”

(<https://phrima.sciencesconf.org/program>). The workshop gathered experts from several European countries as well as leaders of other health infrastructures (like BBMRI, ECRIN, etc). As member of IMIA and AIM board, A. Burgun will be involved in the LOC of Medinfo 2018

B. Rance, along with Institut Curie, Institut Bergonié and Institut Pasteur organized the First French workshop on transSMART on April 2016, 3rd and 4th.

M. Ursino was co-organiser of the 5th Early Phase Adaptive Trials Workshop in Turin, on September 2016 (<http://calvino.polito.it/~probbat/torino2016/general.html>).

S. Allasonnière participated to the organisation of TGS (Topological and Geometrical Structure of Information) 2017.

Scientific committee

S Zohar, Participation to the scientific committee of the international conference of the “International Society for Clinical Biostatistics” held in Birmingham, UK in August 2016.

S Zohar, Participation to the scientific committee of the international conference of the “International Society for Clinical Biostatistics” held in Munich, Germany in August 2013.

5. Post-doctorants et chercheurs accueillis

Visiting professor

We welcomed 2 visiting professors in 2016, each of them for a 2-month stay:

- Harel Gilutz from CLALIT/ Ben Gurion University (Israel) to work on methods to re-use health administrative databases for research purposes. An article was submitted in June 2017. A joint meeting is scheduled in Tel Aviv in October 2017 to prepare further collaboration, including Holon Institute of Technology (<http://www.hit.ac.il/en>) to provide IT expertise on the Israeli side.
- Peter Thall from MD Anderson, Houston, TX has visited our team from May to June 2016 to work on adaptive designs for dose finding. An article is under minor revision in Statistical Method in Medical Research and a collaboration is still ongoing.

Post-doc and ...

- Five postdocs were recruited:
 - Ursino Moreno (Italy),
 - Xiayi Chen (China), recruited on ADR-PRISM (detection of drug adverse events in social media)
 - Boris Labrador
 - Angelika Geroldinger (Austria)
 - B. Rance (will have a MCU-PH position in 2018), recruited to work in the CARPEM program.
- Camille Aupiais will join our team from september 2017 as “poste d’accueil INSERM” for physicians.

We have strengthened the collaboration between our group and Kyoto University and organized two main meetings, the first one in Kyoto in April 2016, the second one in Paris in June 2016. The second restrained meeting was held in Kyoto in October 2016. AS Jannot and S Zohar got an INCA grant for working on bridging studies in collaboration with Pr Satoshi Morita from the university hospital of Kyoto.

International collaborations :

-William Rosenberger, Department of Statistics, George Mason University, Fairfax, VA, USA. Project: “Bayesian hybrid adaptive survival trials” (Methods Inf Med 2015).

- Anand N Vidyashankar et Jie Xu, Department of Statistics, George Mason University, Fairfax, VA, Project: “Meta-Analysis of early phase trials” (on going, French National Cancer Institute (INCA) funding)

- Ken Cheung and Shing Lee, Department of Biostatistics, Mailman School of Public Health, Columbia University, New-York, NY, U.S. Project : “Dose-finding designs for cumulative toxicities” (publication under review)

- Peter Thall and Pierre Maton, Department of Biostatistics, The University of Texas MD Anderson Cancer Centre, Houston, TX, USA and Neonatology Service, Saint-Vincent hospital, Rocourt, Belgium, respectively. Project: “Using clinical outcome utilities to optimize sedation dose for preterm infants undergoing intubation” (JASA 2014, visiting professor from May 2016 to June 2016).

- Ying Yuan, Department of Biostatistics, The University of Texas MD Anderson Cancer Centre, Houston, TX, USA. Project: “A Bayesian dose-finding design for clinical trials

combining a cytotoxic Agent with a biological Agent” (JRSS C 2015, Stat Med 2014).

- Mandrekar Sumithra and Rui Qin, Division of Biomedical Statistics and Informatics, Mayo Clinic, Rochester, MN, U.S.A, Project: “Dose-Finding Designs using a novel Quasi-Continuous Endpoint for Multiple Toxicities” (Stat Med 2013).

- Takashi Daimon, Division of Biostatistics and Data Management, Medical Centre for Translational Research, Osaka University Hospital, Osaka, Japan. Project: “Bayesian designs for phase I cancer clinical trials” (Stat Med 2012, Pharm Stat 2013, Stat Med 2015).

- Satoshi Morita, Department of Biomedical Statistics and Bioinformatics, Kyoto University Graduate School of Medicine, Kyoto, Japan. Project: “Dose-finding clinical trials accounting for pharmacokinetics and multi- subgroups” (Stat Methods Med Res 2016, in press)

- Yanxun Xu, Department of Applied Mathematics and Statistics at Johns Hopkins University, Baltimore, MD, USA. Project: “Precision of anticancer therapy for metastatic cancers across Asian and Caucasian populations: a bridging study re-using health electronic record” (on going, French National Cancer Institute (INCA) funding)

- Jean-François Ethier, Luc Lavoie, and Adrien Barton, University of Sherbrooke , QC, Canada, project “Adapating ontologies to encompass Bayesian information” (J Biomed Semantics. 2017). J-F Ethier was formerly PhD student in the lab, and continues to work with our team as associated researcher. A. Burgun and JF Ethier are currently mentoring a PhD Student, Christina Khnaisser (co-tuelle) doing her research on methods for modelling temporal features in health data bases.

- Tom Rindflesch, researcher on text mining, Cognitive Science Branch, Lister Hill National Center for Biomedical Communications, U.S. National Institutes of Health, Bethesda, MD, “Using literature-based discovery to explain ADRs” (J. Med.Syst, 2016)

- Group of European reserachers doing research on solutions to address the issues related to data sharing, including:

- Tjeerd van Sraa, James Cunningham. University of Manchester, UK,
- Enrique Bernal-Delgado, Health Information Sciences, Aragon, ES
- Emanuele Lettieri, Cristina Mazzali, Politecnico Milano, IT,
- Wolfgang Kuchinke, University of Dusseldorf, GE, “Sharing health data”
- A joint article was acceptd in 2017 for publication in the Yearbook of Medical Informatics

- Paul Avillach, Harvard Medical School, MA, “Clinical data warehouses” (Int J Med Inform. 2017). Paul Avillach was member of our team for 2 years, now assistant professoer at Harvard Medical School, developing reserach on clinical data warehouses and their application in medical reserach.

- Ariane Marelli, McGill University, Montreal, Canada. “Health data and Congenital Heart Diseases” (Cohen S. , manuscript submitted)

- Harel Gilutz, Ariel Bennis, Holon Institute of Technology, Israel, . “Health data and Congenital Heart Diseases” (Cohen S. , manuscript submitted)

6. Interactions avec les acteurs socio-économiques

Contrats de R&D avec des industriels

We participated in one FUI program with Kappa Sante, a company developing

solutions to analyze health information from social media, and Expert System France (formerly Temis), an IT company in text mining between 2014 and 2017 : ADR-PRISM. The project led to 2 joint publications and three articles are in preparation.

Bourses Cifre

Two PhD students were funded by a Cifre during the 2012-2017 period :

1. M-K. Riviere Cifre funding with SERVIER, a pharma company (dir : S. Zohar)
2. R. Abdellaoui Cifre funding with Kappa Santé, a company specialized in pharmaco-epidemiology and social network mining (<https://www.kappasante.com>) (dir : A. Burgun)

Créations de laboratoires communs avec une / des entreprise(s)

In 2016, S. Allasonniere was a co-founder of the master « Bioentrepreneurs » which aims at developing private companies in health domain. She will be the chair of the Bioentrepreneurs program in 2017 and for the next years. Students come from Polytechnique, HEC, and medical schools. The alumni will form a network of companies and spin off in health sector

Création de réseaux ou d'unités mixtes technologiques

Idem.

Créations d'entreprises, de start-up

One of A. Burgun's PhD students, A. Rosier conducted research during his PhD on automated AI methods to classify the alerts generated by implantable cardiac devices. Following his PhD, he created a start up called Implicity (<http://www.implicit.fr>) dedicated to « Smart Monitoring of Pacemakers and Defibrillators ». The company is expected to set up at the Cordeliers campus in the next months,.

7. Contrats de recherche financés par des institutions publiques ou caritatives

Contrats européens (ERC, H2020, etc.) et internationaux (NSF, JSPS, NIH, Banque mondiale, FAO , etc.)

FP7 NEMO (2011- 2016) Treatment of NEonatal seizures with Medication Off-patent: evaluation of efficacy and safety of bumetanide. This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 241479 (S Zohar)

FP7 InSPiRe (2014 - 2017) Innovation in Small Populations Research. This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 602144

(S Zohar)

FP7 NEO-CIRC (2011-2018) The Neocirculation project evaluate the safety and efficacy data for Dobutamine as a first line inotrope for all gestational ages. The Neocirculation project has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 282533 (S Zohar)

FP7 TRANSFoRm (2012-2015) Translational Research and Patient Safety in Europe. The European Commission FP7 sponsored project TRANSFoRm 2010-15 sought to develop, pilot and evaluate a core information architecture for the Learning Health System (LHS) in Europe.

IMI EHR4CR (2011-2015) Electronic Health Records for Clinical Research, through participation of AP-HP (Y. Girardeau, A. Burgun)

FLAG-ERA (2017-2020) Information Technology for Cancer treatment (ItfoC) as participants (A. Burgun, B. Rance) of an INSERM consortium led by M. Cuggia

Starting in 2017 Joint Action on Health Information System in Europe.

Contrats nationaux (ANR, PHRC, FUI, INCA, etc.)

SIRIC - Cancer Research for Personalized Medicine (CARPEM) (P. Laurent-Puig coord)

INCA - French national cancer institute, "Meta Analysis of dose-finding studies" (S Zohar).

INCA - French national cancer institute, "Precision of anticancer therapy for metastatic cancers across Asian and Caucasian populations: a bridging study re-using health electronic record" (AS Jannot, S Zohar).

PREPS 2015- PERMIS (Prévention des ERreurs Médicamenteuses liées aux Interruptions de tâches des Soignants- (B. Sabatier, S. Berdot) - 115 000 euros

PREPS 2014 IM-AGE : Using big data to adapt guidelines and achieve personalized decision for elderly patients (A. Boussadi, S. Berdot, B. Sabatier) -. 139 265 euros

PREPS 2012 DREAM -Evaluation of CPOE (A. Boussadi, S. Berdot, B. Sabatier) - 227 126 euros

Contrats avec les collectivités territoriales

Canceropôle Ile de France (2016-2018) Partage de données en cancérologie (Data sharing in Oncology) 150 KE (coord : A. Burgun)

Contrats financés dans le cadre du PIA

Idem.

Contrats financés par des associations caritatives et des fondations (ARC, FMR, FRM, etc.)

8. Indices de reconnaissance

On s'en tiendra aux indices de reconnaissance les plus significatifs pour le rayonnement et l'attractivité de l'unité de recherche.

Prix

Winner of the 2014 Formal Ontology in Information System competition: FOIS 2014 ontology competition winner with The Cardiovascular Disease Ontology, Authors : Barton A., Rosier A, Burgun A, Ethier J.-F Article published in the Proceedings of the 8th International Conference on Formal Ontology in Information Systems (FOIS), 409-414, P. Garbacz & O. Kutz (Eds.), Amsterdam: IOS Press.

Distinctions

Responsabilités dans des sociétés savantes

A Burgun has been the French representative at the International Medical Informatics Association since 2011. She is member of the Board of the French Medical Informatics Association (<https://www.france-aim.org/page/79802-presentation>).

Idem.

Invitations à des colloques / congrès à l'étranger, séjours dans des laboratoires étrangers

As invited speakers, we gave several talks in conferences and scientific meetings in France and in other countries.

National

1. Rance B. GDR Madics, Atelier Qualité des masses de données scientifiques. Marseille, France. 23 juin 2017
2. Allassonnière S. GDR Madics, Big data et santé. Marseille, France. 23 juin 2017
3. Zohar S. and Ursino M., A Bayesian weighted pseudo-likelihood design for Phase I/II clinical trial in newborns with seizures, Rouen, France 22 Juin 2017.
4. Colloque Medicen. Intelligence artificielle au service de l'imagerie médicale et de la médecine de précision. Paris, France. Juin 2017.
5. Allassonnière S. Colloquium of the Mathematics department of University Paris XI Orsay. 19/06/2017
6. Burgun A. Enjeux de la médecine personnalisée/ de précision. Séminaire INRIA, 1 Juin 2017
7. Burgun A. Translational research platforms integrating clinical and omics Ateliers de l'INSERM, 16 Mai 2017
8. Garcelon N. The production of healthcare data: ensuring that the system starts and ends with the patient. Healthcare Data Institute. April 19, 2017.
9. Allassonnière S. Colloquium of MAP5, Paris Descartes. 10/03/2017.
10. Allassonnière S. Journée "Méthodes variationnelles et statistiques appliquées au

- traitement d'images". 27/01/2017
11. Burgun A. Big data du clinicien. Congrès de la Société Française de Cardiologie, 7 avril 2017
 12. Garcelon N. Les entrepôts de données et le big data au service de la médecine. SUN 2017. Palais des congrès. January, 26 2017.
 13. Burgun A. L'intelligence des données: besoins et perspectives. 5^e Assises Nationales Hospitalo-Universitaires, 9 dec 2016.
 14. Rance B. QuaDaTa day « Quality in Data ». The landscape of clinical data, quality in question. Lyon, France. Décembre 2016.
 15. Rance B. Journée Radiomique, Labex Prisme. Radiomique clinique, les challenges de l'intégration de données hétérogènes. Lyon, France. Novembre 2016
 16. Rance B. Journée BigClin. Secondary use of data at HEGP, the new challenges of reusing clinical narratives. Rennes, France. Octobre 2016
 17. Garcelon N. Dr Warehouse, un entrepôt de données orienté maladie rare. Journée Maladie Rare. Institut Imagine. October 11 2016.
 18. Garcelon N. Keynote - Des données médicales à la connaissance : entrepôts et fouilles de données. Journées dermatologique de Paris. Palais des congrès. December, 10th 2015
 19. Allassonnière S. Rencontres de statistique Avignon/Marseille 06/2016
 20. Allassonnière S. Conférence santé, signal, optimisation -- Grenoble 05/2016
 21. Burgun A. Interopérabilité : challenges et solutions. Séminaire Big Data Institut National de Veille Sanitaire, 9 Décembre 2015
 22. Rance B. Atelier INSERM 236 "Big Data". Interoperability for the integration of information. Septembre 2015
 23. Rance B. Infrastructure Biobanques INSERM. Intégration de données pour le programme CARPEM. Mars 2015
 24. Burgun A. Valeur ajoutée des entrepôts de données. Congrès EPICLIN, 15 Mai 2014
 25. Rance B. Paris Health Week 2017. Table ronde big data en santé. 16 mai 2017
 26. Burgun A. Table ronde sur l'intégrité scientifique, la loyauté et la probité dans le cadre de la rupture numérique et du nouveau paradigme génétique (participants :Marie France Mamzer, Guillaume Vogt, Anita Burgun, Géraldine Perkins). Séminaire d'experts IIREB, Paris, 23 & 24 mai 2016
 27. Burgun A. Table ronde : Grandes bases de données : conception et méthodes d'analyse
 28. Anita Burgun, Ellen Benhamou, François Allia, Sté Soladiis: Congres EPICLIN, Montpellier 21 Mai 2015

International

1. Allassonnière S. Statistics for Data with Geometric Structure. Oberwolfach Workshop ID 1804 01/2018
2. Rance B. National Cancer Center 11th International symposium. Frontiers in Precision Medicine. Goyang (Seoul), South Korea. 14 juin 2017
3. Zohar S. and Ursino M. Bayesian treatment comparison using parametric mixture priors based on histograms elicited from expert physicians, Center for Medical Statistics, Informatics and Intelligent Systems, Vienna, Austria, May 2017.
4. Ursino M. A Bayesian weighted pseudo-likelihood design for Phase I/II clinical trial in newborns with seizures, ICTMC, Liverpool, UK, May 2017.
5. Ursino M. PK/PD information in early phase dose-finding trials in small populations, InSPiRe conference, Coventry, UK, April 2017.
6. S Zohar, LEVNEONATE study in neonatal seizures, InSPiRe conference, Coventry, UK, April 2017.
7. Ursino M. Incorporating pharmacokinetic information in phase I studies in small

- populations, EMA meeting, London UK, March 2017
8. Zohar S. Extrapolation and bridging of adult information in early-phase dose-finding pediatric studies, EMA meeting, London UK, March 2017
 9. Ursino M. and Zohar S. A Bayesian weighted quasi-likelihood design for Phase I/II clinical trial with repeated dose administration in preterm newborns, 5th Early Phase Adaptive Trials Workshop, Torino, Italy September 2016
 10. Burgun A. Linking health and administrative data for maternal, child and young adult health. European Public Health 2016 Workshop: Making mothers and children count: health information, health and quality of life, Vienna, 11 Nov. 2016
 11. Rance B. MDC retreat – Joint Summer School. Secondary use of Healthcare Data for Research. Challenges and Opportunities. Bad Saarow, Allemagne. Septembre 2016
 12. Burgun A. IT supporting genotype phenotype association studies. University of Malta, July 12th, 2016
 13. Garcelon N. Plenary Lecture: From data to knowledge: biomedical data warehouse and data mining. 13th Congress of the European Society for Pediatric Dermatology (ESPD). Paris, 28th May 2016
 14. Allasonnière S. Workshop in Nottingham, Statistical Analysis of Manifold Data and Beyond. 4-6 April 2016
 15. Ursino M. Incorporating pharmacokinetic information in phase I studies in small populations, Roche, Basel, April 2016
 16. Burgun A. Public Health Research Infrastructure for Sharing of health and Medical Administrative data , BridgeHealth and EuroPeristat joint seminar, 5 Apr, 2016
 17. Burgun A. Addressing heterogeneity in cancer : needs for data integration. Joint USPC-USP Meeting – Hematology / Bioinformatics, 8 Mar 2016
 18. Burgun A. Mining Electronic Health Records : examples from Paris Descartes University and HEGP, University of Sao Paulo, Brazil, Aug 26th, 2015
 19. Burgun A. Mining Electronic Health Records : examples from HEGP. Stanford University and SnowFlake group Joint Meeting, Jul 13, 2015
 20. Ursino M. Incorporating pharmacokinetic information in phase I studies in small populations, Columbia University Medical Center, Biostatistics department, New York (USA), December 2015
 21. Ursino M. Incorporating pharmacokinetic information in phase I studies in small populations, PODE, Cambridge UK, July 2015
 22. Allasonnière S. Shape 2015 in Vienna
 23. Burgun A. Grandes bases de données et santé publique. Colloque Jacques Cartier, Montreal, 6 oct 2014
 24. Rance B. Georgetown University, Washington D.C., Translational Research Group, Data Integration for Cancer Research in the CARPEM program. Novembre 2014
 25. Burgun A. Enabling multi site disease studies: a short term agenda, Kyoto University and INSERM Joint Meeting (organizing committee), June2, 2014
 26. Burgun A. Electronic Health Records, Biomedical Data Warehouses, and data integration, Kyoto University Seminar on Data Science and Personalized Medicine, 9 Apr 2014.
 27. S Zohar in Sept 2016 “A Bayesian weighted quasi-likelihood design for Phase I/II clinical trial with repeated dose administration in preterm newborns”. 5th Early Phase Adaptive Trials Workshop. Mathematical Science Department at Politecnico di Torino, Torino, Italy.
 28. S Zohar in August 2016 “A unified approach for extrapolation and bridging adult information in early phase paediatric dose-finding studies”. The international conference of the “International Society for Clinical Biostatistics” held in Birmingham, UK.
 29. S Zohar Nov 2015 “Early phase dose-finding designs for bridging studies in paediatrics”. Symposium on Statistical methods and designs in clinical oncology, Paris, France.
 30. S Zohar Oct 2014 “A Bayesian Dose-finding Design for Clinical Trials Combining a

- Cytotoxic Agent with a Molecularly Targeted Agent". 4th Early Phase Adaptive Trials Workshop, Medical University of South Carolina, Charleston, SC, USA.
31. S Zohar April 2014 "Dose-finding methods actual and future work". Department of Biomedical Statistics and Bioinformatics, Kyoto University, Japan.
 32. S Zohar Sept 2013 "Paediatrics Early Phase Clinical Trials - Is There a Place For Innovation?" Third Biennial Workshop on Adaptive Early-Phase Clinical Trial Design, University of Michigan School of Public Health, Ann Arbor, MI, USA.