

Infolettre - Projet ATRAPP

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Infolettre ATRAPP
Hiver 2019 - 2020

Newsletter ATRAPP
Winter 2019 - 2020



GenomeCanada



GenomeQuébec

Université 
de Montréal

Voici le contenu de cette infolettre / In this newsletter you will find:

- Progrès du projet ATRAPP / ATRAPP project progress
- Dates importantes à retenir / Upcoming deadlines
- Publications récentes du projet ATRAPP / ATRAPP recent publications
- Conférences à venir en 2020 / 2020 upcoming events

ATRAPP - Prév́ision, prévention et traitement des proliférations d'algues et évaluation des risques afférents grâce à la génomique.

ATRAPP - Algal Blooms, Treatment, Risk Assessment, Prediction and Prevention through Genomics

L'année 2019 a été très fructueuse, puisque la troisième campagne d'échantillonnage du projet a été complétée avec succès! Avec l'aide de nos précieux collaborateurs, sept sites ont été intensément échantillonnés, alors que d'autres ont été échantillonnés sur une base saisonnière et nous avons exposé 24 systèmes de mésocosmes. Jusqu'à présent, neuf usines de traitement des eaux ont collaboré au projet. Les chercheurs travaillent très fort pour analyser et traiter les **5 700** échantillons issus de plus de **400** lacs!

The year 2019 was very productive as the third sampling campaign of the project was completed successfully! Thanks to our collaborators, seven lakes were sampled intensively, some other lakes were sampled on a seasonal basis and we have exposed 24 mesocosms systems. Also, nine water treatment plants have collaborated to the project. Researchers are working very hard to analyze and process the **5,700** samples from over **400** lakes.



Le projet ATRAPP en chiffres :
 The ATRAPP project in numbers:



ATRAPP PROJECT -

ALGAL BLOOMS, TREATMENT, RISK ASSESSMENT, PREDICTION AND PREVENTION THROUGH GENOMICS

ATRAPP, un projet d'une durée de 4 ans, doté d'un budget de 12,3M\$CAN.

4 

ATRAPP, a 4 years project with a

57

57 partenaires universitaires, privés et gouvernementaux, canadiens et internationaux.

57 partners: universities, private and governmental partners, Canadian and international.

120

Plus de 120 personnes impliquées.
More than 120 people involved.

3

3 campagnes d'échantillonnage: année 2017, 2018 & 2019.

3 sampling campaigns: year 2017, 2018 & 2019.

**5700
/400**

Plus de 5700 échantillons obtenus à partir de plus de 400 lacs.

More than 5700 samples obtained from more than 400 lakes.

31

31 articles publiés et d'autres en processus de soumission.

31 articles published and some more in submission process.

"The common facts of today are the products of yesterday's research"

-WDuncan MacDonald

Adopte un lac / Adopt a lake

La campagne « **Adopte un lac** » vise à soutenir la recherche sur les cyanobactéries et à sensibiliser le grand public à la cause de la préservation de l'eau. Durant la première année de la campagne, en 2018, **17** lacs ont été échantillonnés par le public, alors qu'en 2019, **23** autres lacs se sont ajoutés. Les échantillons obtenus ont été intégrés à la base de données du projet ATRAPP.

* Page web de la campagne [Adopte un lac](#)

The "**Adopt a lake**" campaign aims to enable all citizens to participate in the development of knowledge and in the search for solutions but also to raise awareness among the general public. In the first year of the campaign, 2018, **17** lakes were sampled by the public, while in 2019, **23** more lakes were added. The samples obtained were integrated into the ATRAPP project database.

* Campaign website: [Adopt a lake](#)



ACTIVITÉS

Dates importantes à retenir pour ATRAPP / Upcoming ATRAPP deadlines

- * Rapport financier trimestre # 13 – janvier 2020
- * Rapport financier trimestre # 14 – avril 2020
- * Rapport scientifique # 7 – juin 2020
- * 7e rencontre ATRAPP CSR – printemps 2020
- * 4e rencontre annuelle du projet ATRAPP – Printemps 2020

- * Financial report Quart # 13 – January 2020
- * Financial report Quart # 14 – April 2020
- * Scientific report # 7 – April 2020
- * 7th ATRAPP ROC meeting – Spring 2020
- * 4th ATRAPP Annual Meeting – Spring 2020

Progrès du projet ATRAPP / ATRAPP project progress

##	Year 1				Year 2				Year 3				Year 4			
2016	2017			2018			2019			2020						
1-Quart	2-Quart	3-Quart	4-Quart	5-Quart	6-Quart	7-Quart	8-Quart	9-Quart	10-Quart	11-Quart	12-Quart	13-Quart	14-Quart	15-Quart	16-Quart	17-Quart
O N D	J F M	A M J	J A S	O N D	J F M	A M J	J J A S	O N D	J F M	A M J	J J A S	O N D	J F M	A M J	J J A S	O N D
▶													▶			

Publications récentes de nos chercheurs / ATRAPP Recent publications

- * Kolinjivadi, V., Mendez, A. Z., & Dupras, J. (2019). Putting nature 'to work' through Payments for Ecosystem Services (PES): Tensions between autonomy, voluntary action and the political economy of agri-environmental practice. *Land use policy*, 81, 324-336. [Read article](#)
- * Kumar, P., Hegde, K., Brar, S. K., Cledon, M., Kermanshahi-Pour, A., Roy-Lachapelle, A., & Galvez-Cloutier, R. (2019). Novel fluidized-bed biofilm reactor for concomitant removal of microcystin-LR and organics. *Chemical Engineering Journal*, 359, 99-111. [Read article](#)
- * Larsen, M.L., Baulch, H. M., Schiff, S. L., Simon, D. F., Sauvé, S., Venkiteswaran, J. J. (2019). Extreme midsummer rainfall event drives early onset cyanobacterial bloom. *BioRxiv* 570275; doi:https://doi.org/10.1101/570275 [Read article](#)
- * Nisol, B., Watson, S., Leblanc, Y., Moradinejad, S., Wertheimer, M. R., & Zamyadi, A. (2019). Cold plasma oxidation of harmful algae and associated metabolite BMAA toxin in aqueous suspension. *Plasma Processes and Polymers*, 16(2), 1800137. [Read article](#)
- * Kumar, P., Rubio, H. D. P., Hegde, K., Brar, S. K., Cledon, M., Kermanshahi-pour, A., ... & Galvez-Cloutier, R. (2019). Agro-industrial residues as a unique support in a sand filter to enhance the bioactivity to remove microcystin-Leucine arginine and organics. *Science of The Total Environment*, 670, 971-981. [Read article](#)
- * L'Ecuyer-Sauvageau, C., Kermagoret, C., Dupras, J., He, J., Leroux, J., Schinck, M. P., & Poder, T. G. (2019). Understanding the preferences of water users in a context of cyanobacterial blooms in Quebec. *Journal of environmental management*, 248, 109271. [Read article](#)
- * Moradinejad, S., Glover, C. M., Mailly, J., Seighalani, T. Z., Peldszus, S., Barbeau, B., ... & Zamyadi, A. (2019). Using Advanced Spectroscopy and Organic Matter Characterization to Evaluate the Impact of Oxidation on Cyanobacteria. *Toxins*, 11(5), 278. [Read article](#)
- * Duy, S. V., Munoz, G., Dinh, Q. T., Do, D. T., Simon, D. F., & Sauve, S. (2019). Analysis of the neurotoxin β -N-methylamino-L-alanine (BMAA) and isomers in surface water by FMOC derivatization liquid chromatography high resolution mass spectrometry. *PLoS one*, 14(8). [Read article](#)
- * Kouakou, C. R., & Poder, T. G. (2019). Economic impact of harmful algal blooms on human health: a systematic review. *Journal of Water and Health*. [Read article](#)
- * Roy-Lachapelle, A., Duy, S. V., Munoz, G., Dinh, Q. T., Bahl, E., Simon, D. F., & Sauvé, S. (2019). Analysis of multiclass cyanotoxins (microcystins, anabaenopeptins, cylindrospermopsin and anatoxins) in lake waters using on-line SPE liquid chromatography high-resolution Orbitrap mass spectrometry. *Analytical Methods*, 11(41), 5289-5300. [Read article](#)
- * Visentia, F., Bhartia, S., Mohseni, M., Dorner, S., & Barbeau, B. (2019). Performance of vacuum UV (VUV) for the degradation of MC-LR, geosmin, and MIB from cyanobacteria-impacted waters. *Environmental Science: Water Research & Technology*, 5(11), 2048-2058. [Read article](#)
- * Kumar, P., Hegde, K., Brar, S. K., Cledon, M., Kermanshahi-pour, A., Roy-Lachapelle, A., ... & Galvez-Cloutier, R. (2019). Co-culturing of native bacteria from drinking water treatment plant with known degraders to accelerate microcystin-LR removal using biofilter. *Chemical Engineering Journal*, 123090. [Read article](#)
- * Roy-Lachapelle, A., Sollicie, M., Sauvé, S., & Gagnon, C. (2019). A data-independent methodology for the structural characterization of microcystins and anabaenopeptins leading to the identification of four new congeners. *Toxins*, 11(11), 619. [Read article](#)
- * Kumar, P., Rehab, H., Hegde, K., Brar, S. K., Cledon, M., Kermanshahi-pour, A., ... & Surampalli, R. Y. (2020). Physical and biological removal of Microcystin-LR and other water contaminants in a biofilter using Manganese Dioxide coated sand and Graphene sand composites. *Science of The Total Environment*, 703, 135052. [Read article](#)

Other publications

* M. A. Burford et al. (2019). Solutions for managing cyanobacterial blooms: A scientific summary for policy makers. IOC/UNESCO, Paris (IOC/INF-1382). [Click here](#) to view and download the PDF.

** Important

Politique de Genome Canada sur l'accès aux publications de recherche [Lire la Politique \(point 2\)](#).
Genome Canada Policy on Access to Research Publications [Read Policy](#).

Conférences à venir en 2020 / Upcoming events in 2020

Date	Conférence / Conference	Place / Localisation	Organisé par / Organized by	Lien / Link	Deadline of abstract submission
Mar 12-14, 2020	Symposium annuel du GRIL 2020	Parc national du Mont-Orford, Orford QC, Canada	Groupe de recherche interuniversitaire en limnologie (GRIL)	https://oraprdnt.uqtr.quebec.ca/pls/public/gscw031?owa_no_site=543&owa_no_fiche=105/	N/A
Apr 6-10, 2020	American Association of Geographers (AAG) Annual Meeting	Denver, Colorado, USA	American Association of Geographers (AAG)	https://www2.aag.org/aagannualmeeting/	Poster abstracts only Jan 31, 2020
Apr 9-10, 2020	ICEST 2020: 14. International Conference on Environmental Science and Technology	Venice, Italy	The International Research Conference	https://waset.org/environmental-science-and-technology-conference-in-april-2020-in-venice/	Jan 30, 2020
Apr 21-23, 2020	4th Interdisciplinary Freshwater Harmful Algal Blooms Workshop (IFHAB)	Toronto ON, Canada	The Interdisciplinary Freshwater Harmful Algal Blooms Workshop (IFHAB)	https://www.ifhabworkshop.com/	Feb 18, 2020
May 4-8, 2020	Congrès annuel de l'Acfas 2020	Université Sherbrooke, Université Bishop's, QC, Canada	Association canadienne-française pour l'avancement des sciences (Acfas)	https://www.acfas.ca/evenement/s/congres/	Closed
May 7-8, 2020	Canadian Water Network - Blue Cities 2020	Toronto ON, Canada	Canadian Water Network	http://bluecities.ca/	N/A
Jun 2020	ATRAPP Annual Meeting	Montreal QC, Canada	ATRAPP team	http://atrapp.ca/	Mar 31, 2020
Jun 8-12, 2020	63rd Annual Conference on Great Lakes Research - Focusing on the future	Winnipeg MB, Canada	International Association for Great Lakes Research (IAGLR), IISD Experimental Lakes Area	http://iaglr.org/iaglr2020/	Jan 24, 2020
Jun 10-12, 2020	Canadian Water Summit - The Keys to a Blue Economy	Ottawa ON, Canada	The Canadian Water Summit, Canadian Water and Wastewater Association (CWWA)	https://watersummit.ca/	Open
Jun 14-17, 2020	ACE 20 - Future so bright	Orange County Convention Center, Orlando, Florida, USA	The American Water Works Association (AWWA)	https://www.awwa.org/ace/Programming/Professional-Program-Tracks	Jan 16, 2020
Jun 28-Jul 2, 2020	SMBE Annual Meeting 2020	Québec City, QC Canada	Society for Molecular Biology and Evolution (SMBE) 2020 Local Organising Committee	http://smbe2020.org/	Jan 20, 2020
Aug 23-28, 2020	Water and Climate Change - Accelerating Action	Stockholm, Sweden	Stockholm International Water Institute (SIWI)	www.worldwaterweek.org	Jan 19, 2020
Oct 11-16, 2020	The 19th International Conference on Harmful Algae (ICHA 2020)	La Paz, B.C.S., Mexico	International Society for the Study of Harmful Algae (ISSHA)	http://www.icha2020.com/Secciones/inicio	April 12, 2020

	2020				
Nov 15-19, 2020	Water Quality Technology Conference® & Exposition	Schaumburg, Illinois, USA	American Water Works Association (AWWA) - Specialty Conferences	https://www.awwa.org/	Mar 5, 2020
Nov 16-20, 2020	NALMS 40th International Symposium 2020	Minneapolis, Minnesota, USA	North American Lake Management Society (NALMS_2019)	https://www.nalms.org/nalms2020/	Jan 2020
Dec 15-20, 2020	PACIFICHEM 2020: A creative vision for the future	Honolulu, Hawaii, USA	Pacific Basin Chemical Societies (PAC CHEM™)	https://pacificchem.org/	Closed

**L'équipe de gestion ATRAPP vous souhaite
Bonne année 2020 !!**

**Best wishes for the year 2020
from the ATRAPP management team !!**

Photo credit: Aaron Burden



Si vous souhaitez en savoir davantage à propos du projet, ou pour transmettre des renseignements sur vos activités, veuillez visiter le site web [projet ATRAPP](#) ou nous envoyer un courriel à : « atrapp@umontreal.ca ».

For further information regarding this project, please visit the official [ATRAPP website](#) or email us at « atrapp@umontreal.ca ».

**Votre soutien et votre collaboration sont essentiels à l'avancement de cet ambitieux projet !
Your support and collaboration are essential to the success of this project !**

L'équipe de gestion ATRAPP

Projet financé par :



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