



INRAE



Avril 2021

LA LETTRE D'INFORMATION DU BUREAU DU CNRS DE WASHINGTON



[EXPLOREZ NOS ACTUALITES, DES INFORMATIONS SUR LES LABORATOIRES ET PROJETS DE LA REGION AINSI QUE DES TEMOIGNAGES DE CHERCHEUR.S QUI FONT VIVRE LES COLLABORATIONS FRANCO-AMERICAINES SUR NOTRE SITE INTERNET!](#)

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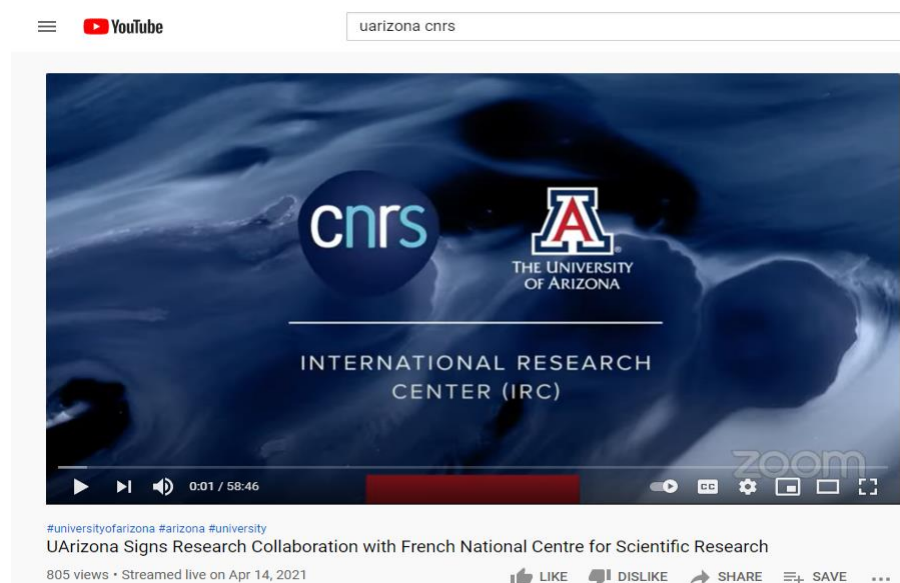
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EN DIRECT DES ACTIONS STRUCTURANTES

En Arizona, le CNRS crée son premier « International Research Center » IRC.

Le 14 Avril 2021 a été l'occasion de la signature virtuelle de l'IRC entre l'Université d'Arizona et le CNRS. Cette signature fait suite à d'une discussion de haut niveau entre le Président de l'Université d'Arizona **Robert C. Robbins** et le Président Directeur Général du CNRS **Antoine Petit** en novembre 2020. Le nouveau centre de recherche international « **France-Arizona Institute for Global Grand Challenges** » mènera des recherches scientifiques d'envergures dans des domaines aussi variés que l'environnement, l'astronomie, les NTIC et la science des données. Compte tenu du contexte actuel, la cérémonie s'est tenue en vidéoconférence sur la plateforme [Youtube](#).

Cette cérémonie de signature virtuelle s'est déroulée en présence notamment de Philippe Etienne, Ambassadeur de France aux Etats-Unis, d'Edith Heard, Directrice Générale du *European Molecular Biology Laboratory*, Cherry Murray, membre de l'Académie des Sciences américaine et directrice scientifique de Biosphere 2 et Sarah Smallhouse, Présidente de la fondation Thomas R. Brown.



Un moment durant lequel **Antoine Petit** et **Robert C. Robbins** ont rappelé l'importance de rapprocher les deux institutions et contribuer à trouver ensemble des solutions scientifiques aux enjeux mondiaux majeurs. La signature de l'IRC est la conclusion d'un travail de longue haleine entre le Bureau du CNRS de Washington et l'Université d'Arizona.

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Une opportunité pour rappeler que l'**Université nord-américaine (U. Arizona)** est l'une des meilleures universités publiques des Etats-Unis, selon [US News](#) & World Report. Elle s'est classée dans le top 25 des dépenses de recherche en 2018 parmi toutes les universités publiques, selon la National Science Foundation, et se distingue comme **Research 1 university** dans la classification Carnegie avec \$687M de dépenses de recherche annuelles.

Parmi ses atouts, l'**U.Arizona** héberge plusieurs infrastructures ou laboratoires uniques au monde, tels que Biosphère 2 (écologie, géosciences) ou le **Mirror Lab** où se conçoivent et se fabriquent les miroirs et des télescopes géants (plus de 8m de diamètre). Associée à toutes les missions de la NASA depuis Apollo, elle est constamment aux avant-postes des plus grands programmes internationaux d'exploration spatiale.



© Biosphere 2/The University of Arizona

MISE EN PLACE DE L'IRP FUNELAKES :

Les changements environnementaux induits par les activités anthropiques sont une des principales causes de la crise actuelle de la biodiversité. Le projet international collaboratif et intégratif intitulé « FUNELAKES » (Écologie fonctionnelle des écosystèmes lacustres) vise à mieux comprendre les patrons, déterminants et conséquences fonctionnelles des processus de réassemblage des communautés dans les écosystèmes lacustres.



L'IRP « FUNELAKES » s'appuie sur des approches complémentaires à différentes échelles spatiales incluant des synthèses de données écologiques globales, des suivis d'écosystèmes lacustres et des expérimentations ex-situ en mésocosmes et microcosmes. Ce projet se base sur une collaboration entre deux équipes porteuses du projet et implique des membres sous tutelle du CNRS à Toulouse (France) et de la Washington **University - School of Aquatic and Fishery Sciences (SAFS)** à Seattle (USA).

Domaines de recherche /Mots clés : Ecologie, Fonctionnement des Écosystèmes, Biologie de la Conservation, Écosystèmes Aquatiques, Poissons d'eau douce.

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Agenda scientifique : Les travaux s'inscrivent dans le cadre des recherches en sciences écologiques fondamentales dont certains des résultats pourront contribuer à une meilleure gestion de la biodiversité et des écosystèmes aquatiques. Les deux équipes mettent en commun leur expertise sur la biodiversité et des écosystèmes d'eau douce et partagent des données de terrain (lacs de France et des USA) et des équipements expérimentaux (mésocosmes et microcosmes) leur permettant d'assurer l'approche intégrative du projet.



**North
America**

INRAE et la branche nord-américaine de la FAO s'associent pour mener une série de webinaires autour des rencontres politiques internationales rythmant l'année 2021-2022.

INRAE collabore activement avec le siège romain de la FAO (Food and Agriculture Organization), organisation onusienne pour l'agriculture et l'alimentation, et ce depuis des années, sur de nombreux sujets comme la production de rapports sur les systèmes alimentaires durables ou des programmes de recherche scientifique internationaux comme **PREZODE**, mais aussi sur des échanges de bonnes pratiques et d'informations à haut niveau, comme par exemple au sein du **Sustainable Food Systems Programme (SFS)** du **One Planet Network** ou du Groupe Scientifique pour le Sommet sur les Systèmes Alimentaires de septembre 2021. S'appuyant sur cette relation, l'antenne nord-américaine d'INRAE a développé ses liens avec **FAO North America**, bureau de liaison de l'organisation à Washington D.C. et couvrant la même zone géographique (Etats-Unis et Canada). INRAE et **FAO North America** ont ainsi mis en place une série de webinaires conjoints, avec pour objectif de sensibiliser aux défis et aux opportunités autour de l'agriculture, l'alimentation et l'environnement, pour un public international. Ces webinaires ont été pensés autour des événements rythmant l'agenda international de la diplomatie environnementale, c'est-à-dire les Conférences des Parties, mais aussi les Sommets Onusiens tel que le Sommet sur les Systèmes Alimentaires.

Le premier webinaire de la série aura lieu le 28 mai à 16h (GMT+2) et se concentrera sur les enjeux pour la recherche de la COP15 Biodiversité, organisée par la Convention sur la Biodiversité Biologique (CBD) en octobre 2021 à Kunming. Côté INRAE, **Thierry Caquet, Directeur Scientifique Environnement**, et **Jean-François Soussana**, Vice-Président International, représenteront l'institution, puis un panel de chercheurs discutera des opportunités de développement d'une agriculture permettant d'atteindre la sécurité alimentaire et nutritionnelle pour tous les individus, tout en réduisant le déclin de la biodiversité constaté à travers le globe. Ce premier webinaire de haut niveau étudiera les actions et politiques nécessaires à la mise en place de systèmes alimentaires mettant le potentiel de la biodiversité et des écosystèmes mondiaux au service d'une agriculture durable compatible avec leur conservation et leur restauration. Cette approche est notamment soulignée dans le rapport de la FAO de 2019 intitulé *State of the World Biodiversity for Food and Agriculture*, ainsi que dans le plan stratégique INRAE 2030.

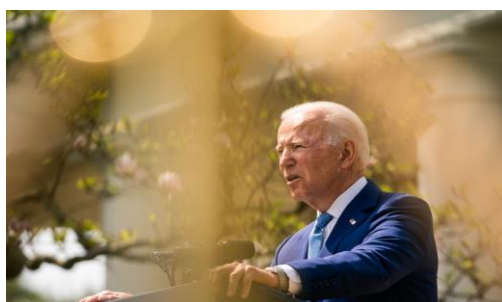
Pour en savoir plus : <https://tinyurl.com/89u4t4tw>

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ETATS-UNIS

Biden pursues giant boost for science spending

US President Joe Biden unveiled his first proposed budget on 9 April, and it signaled strong support for research and development. The spending plan would provide across-the-board increases in science funding and inject billions into the fights against COVID-19 and climate change.



The document provides only a broad view of the president's priorities: further details are expected in a more complete proposal in the coming weeks. And although the president's budget request kicks off a discussion about how to allocate monies in the United States each year, it is Congress that ultimately controls the budget and decides how much to give research agencies

Nonetheless, after years of former president Donald Trump calling to slash science funding only to be rebuffed by Congress, the document comes as a relief to many scientists. "This is a radical change of pace from what we've seen for the past four years," says Matt Hourihan, director of the budget and policy program at the American Association for the Advancement of Science in Washington DC.

En savoir plus: <https://tinyurl.com/pwj43yfm>

Department of Energy to Provide \$25 Million toward Development of a Quantum Internet



Taking advantage of the properties of the quantum mechanical world, a quantum internet holds the promise of accelerating scientific discovery by connecting researchers with powerful new capabilities such as quantum-enabled sensing as well as enhanced computational power through the eventual networking of distributed quantum computers.

"Recent efforts at developing operational quantum networks have shown notable success and great potential," said Barb Helland, DOE Associate Director of Science for Advanced Scientific Computing Research. "This opportunity aims to lay the groundwork for a quantum internet by taking quantum networking to the next level. Important conceptual groundwork for the present effort was developed by the February 2020 DOE Quantum Internet Blueprint Workshop, sponsored by the Office of Advanced Scientific Computing Research (ASCR) within DOE's Office of Science.

Applications will be open to all 17 DOE laboratories, with awards selected competitively based on peer review. Total planned funding is up to \$25 million over five years, with \$20 million in out-year funding contingent on congressional approbation.

En savoir plus : <https://tinyurl.com/bv9ptc>

NIH to enhance tribal engagement efforts for precision medicine research

The National Institutes of Health (NIH) will expand and strengthen commitments to respectfully engage American Indian and Alaska Native (AI/AN) people and support their inclusion in the *All of Us* Research Program, a landmark health research effort that aims to find more precise ways to prevent and treat disease. In response to tribal leader input gathered from a nearly two-year consultation process, *All of Us* will initiate specialized education efforts for researchers, take steps to ensure the perspectives and needs of AI/AN communities are integrated into the program, and support ongoing engagement activities with Tribal Nations to pave the way for expanded collaborations in the future.

“We have a real opportunity to help address underrepresentation in research and uncover factors that contribute to health disparities,” said *All of Us* Chief Operations Officer Stephanie Devaney, Ph.D. “But we must go about things in the right way, in partnership with communities. For us, engaging in Tribal Consultation is a critical element in fostering the ongoing dialogue needed to achieve those goals.”

The program also highlighted plans to create a training for researchers on the responsible use of AI/AN data, and to explore hosting workshops with AI/AN researchers and community members to learn more about tribal communities’ research priorities. These steps add to the work the program has already done to expand representation of tribal members within its governance.

En savoir plus : <https://tinyurl.com/4xkzb58a>

Earth Day Connections: NASA Investigates Vegetation

From the vantage point of space, NASA’s fleet of Earth-observing satellites joins with those of partner interagency and international agencies to investigate and illuminate connections between ecosystems that are continents apart, or right next door. With a global perspective, scientists can observe how factors like deforestation, climate change and disasters impact forests and other plant life – while also studying how changes in vegetation impact air quality, waterways and the climate.



NASA satellites and science also help farmers in the United States monitor and track their crops. Having more information about rainfall, plant health and other data gives farmer’s information they use to deal with the extreme weather events that are increasing due to climate change, as well as shifting planting zones and other effects like early freezes and heavier spring rains. The U.S. Department of Agriculture estimates and tracks crop production using farmer surveys and ground observations, with a big-picture assist from Landsat data, NASA computer models and other Earth science resources. They also use MODIS instruments to monitor daily vegetation health – all to help determine what the crop yield will be, and which areas could be facing problems.

En savoir plus : <https://tinyurl.com/y9tzynck>

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NSF, NASA sign collaborative agreement to expand activities for broadening participation in engineering



The U.S. National Science Foundation (NSF) and NASA have signed a memorandum of understanding establishing the framework for collaborative efforts to broaden participation in engineering.

The collaboration will involve NASA's Minority University Research and Education program, which engages underrepresented populations through a wide variety of initiatives, and NSF's Broadening Participation in Engineering and NSF INCLUDES programs. NSF INCLUDES supports national infrastructures for collaborations that broaden participation in STEM fields for historically underrepresented groups. NSF's Broadening Participation in Engineering program supports research to develop a diverse, inclusive and well-prepared engineering workforce. "NASA and NSF have benefited from a partnership spanning decades that advances space and science research," said NASA **Associate Administrator for STEM Engagement Mike Kincaid**.

"This new collaboration enables NASA to leverage substantial NSF INCLUDES investments for the next generation of future explorers and innovators. Working together, our agencies can further strengthen a diverse STEM workforce that will achieve missions beyond our imaginations."

En savoir plus : <https://tinyurl.com/338j3b2r>

NIH Funds New Program to Broaden Diversity in Neurobiology

The economic and social for some students, stepping onto the sprawling UC San Diego campus for the first time can be daunting.

For transfer students, the challenges can escalate, given their compressed time frame at the university. Demands are especially compounded for those with aspirations in the sciences and the hope of connecting with a laboratory to gain hands-on research experience.



The National Institutes of Health (NIH) has granted UC San Diego \$1.29 million in funding to establish the new **"STARTneuro"** program through the NIH's Enhancing Neuroscience Diversity through Undergraduate Research Experiences (ENDURE) initiative, which is focused on raising interest and opportunities in neuroscience research for individuals who are typically underrepresented in the field. STARTneuro is modeled after the National Science Foundation-funded START program (2015-2017), conceived and implemented by **Eduardo Macagno, a distinguished professor in Biological Science**.

En savoir plus : <https://tinyurl.com/2b5v7p9p>

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How a historic funding boom might transform the US National Science Foundation?



US officials are discussing whether the National Science Foundation (NSF) — which funds about 25% of all basic academic research in the country — should get a historic budget boost, potentially changing the US science landscape. During congressional hearings last week, legislators evaluated proposals that would increase the agency's funding by as much as US\$100 billion over about five years. Any of these, if passed, would represent one of the largest increases for the NSF since it launched nearly 70 years ago.

"It is not an overstatement to say that we are already losing leadership," says **Rita Colwell**, a **microbiologist at the University of Maryland, College Park**, who led the NSF from 1998 to 2004.

US officials hope that a big budget boost for the NSF could similarly yield breakthroughs. With its current budget, the NSF funds only 20% of grant applicants each year, even though 30% of applicants' proposals are rated as highly meritorious by review panels, said NSF director **Sethuraman Panchanathan** during the Senate appropriations hearing on 13 April.

For now, Congress continues to iron out the details of the funding boost with the goal of arriving at a single plan. The Senate has now introduced a new draft of the Endless Frontiers Act, with updated language to address the broad perspectives presented in last week's hearings.

En savoir plus : <https://tinyurl.com/68zm6rju>

Biden opens global summit on climate



Saying the United States and other big economies "have to get this done," President Joe Biden opened a global climate summit Thursday aimed at getting world leaders to dig deeper on emissions cuts. The United States pledged to cut in half the amount of climate-wrecking coal and petroleum fumes it is pumping out.

His commitment to cut U.S. fossil fuel emissions up to 52% by 2030 marks a return by the U.S. to global climate efforts after four years of withdrawal under President Donald Trump. Japan, a heavy user of coal, announced its own new 46% emissions reduction target Thursday before the summit opened as the U.S. and its allies sought to build momentum.

The Biden administration's pledge would require by far the most ambitious U.S. climate effort ever, nearly doubling the reductions that the Obama administration had committed to in the landmark 2015 Paris climate accord.

"There is too much of an impulse in the U.S. to just wish away Trump's legacy and the fact that every election is now basically a coin toss between complete climate denial and whatever actions the Democrats can bring to the table," he said.

En savoir plus : <https://tinyurl.com/48me8phm>

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Research and restore: How Cornell scientists are conserving Earth's resources

Pollution threatens our oceans, seas and waterways, as well as the many endangered species living there. Increasingly, plastic waste from homes and businesses ends up in water, and the commercial fishing industry contributes a significant amount from polymers in fishing gear. To address



the plastic environmental crisis, Cornell chemists have developed a new polymer with ample strength in a marine setting that is poised to degrade by ultraviolet radiation. Engineers from Cornell and North Carolina State University have proposed a creative solution: an army of swimming, self-propelled biomaterials called 'microcleaners' that scavenge and capture plastics so they can be decomposed by computationally-engineered microorganisms.

- **Unlocking more effective wind energy**

The U.S. currently has only two small offshore wind farms, but planned deployment of wind turbines in new lease areas along the Eastern Seaboard could eventually provide more than two times the national electricity demand — using sustainable offshore wind energy alone.

- **Harnessing the power of the sun**

Solar power holds promise for achieving sustainability goals nationally and in New York, but larger solar projects could require large swaths of farmland to be cleared for immense, land-intensive solar projects.

En savoir plus : <https://tinyurl.com/maya4s6>

NSF-led, multi-sector partnership will support research that leads to superior communication networks and systems.

The U.S. National Science Foundation is partnering with other federal agencies and private industry to form RINGS -- the Resilient and Intelligent Next-Generation Systems program -- a new, NSF-led initiative that seeks to accelerate research in areas with potentially significant impact on Next-Generation (NextG) networking and computing systems.



"Since I joined NSF, I have championed public-private partnerships as a critical foundation for advancing the frontiers of science and driving home solutions to some of our foremost societal challenges," said **NSF Director Sethuraman Panchanathan**. "I am delighted we are launching this multi-sector collaboration to drive the innovations that will shape future communication networks so vital to everyday life."

The significance of the public-private partnership goes beyond leveraging funding. For example, private-sector partners in this coalition represent some of the users who would develop and implement NextG technologies; they bring experience and insight, as well as the potential to accelerate the translation of fundamental research findings into new technologies and solutions.

En savoir plus : <https://tinyurl.com/vavrvy85>

Avril 2021

NIH establishes new childhood asthma clinical research network



The National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health, has awarded \$10 million in first-year funding to establish a clinical research network called Childhood Asthma in Urban Settings (CAUSE). This new initiative extends and expands NIAID's long-standing efforts to better understand and reduce the disproportionate burden of asthma among children living in low-income urban environments. Since 1991, NIAID has sponsored a series of research programs conducted in urban areas where pediatric asthma is prevalent and severe. Among many accomplishments, NIAID-funded research found that exposure to cockroach allergen is a major risk factor for severe asthma in urban children and that programs to decrease exposures to cockroaches and other household allergens reduce children's asthma symptoms and health care visits. Researchers also established that omalizumab, a drug that reduces immunoglobulin E, can prevent seasonal asthma attacks. In addition, scientists identified molecular pathways that evolve in the nasal passages of children with asthma who had colds that led to asthma attacks.

En savoir plus : <https://tinyurl.com/2zye4j4x>

DOE to Support 11 Remote and Island Communities Transitioning to Resilient Clean Energy Solutions

The U.S. Department of Energy (DOE) today announced it will work with 11 remote and island communities around the United States and provide federal assistance to bolster their energy infrastructure, reduce the risk of outages, and improve their future energy and economic outlook. Due to their geographic isolation, remote coastal and island communities often face high energy costs and vulnerable energy infrastructure due to their increased risk of natural disasters and climate change. Watch this [video](#) to learn more about the program.

Previous DOE initiatives helped New Orleans rebuild from Hurricane Katrina with funding for advanced microgrids to power parts of the city and trained Hawaii utilities officials on building more capacity for renewable energy sources.

"I applaud the Department of Energy for helping island communities plan the best way to meet their unique energy needs in a more affordable, resilient, and sustainable way. **Senator Mazie Hirono** declared.

The Energy Transitions Initiative is focused on embracing local knowledge and helping community organizations use federal expertise and assistance to find solutions to the unique energy needs of each island community. "Accelerating assistance will speed up Hawaii's transition to renewable energy for our vehicles, homes, and businesses in the face of climate change challenges," said **Senator M. Hirono**.

En savoir plus : <https://tinyurl.com/2ja5wsea>

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Commerce The Biden administration is drafting a blueprint to implement a carbon bank through the USDA

Agriculture Secretary Tom Vilsack has shown his ambition to create a multibillion-dollar bank to help



pay farmers to capture carbon from the atmosphere. By creating a large carbon credit bank, this initiative aims to

support farmers who adopt climate-friendly practices. In theory, the United States Department of Agriculture (USDA) would offer major corporations like Danone, Smithfield and Nestlé – who all pledged drastic reductions to greenhouse gas emissions – to buy credits to offset their pollution. As corporations cannot meet their goals without help from the farmers who supply them, the carbon bank would help farmers to plant more crops such as cereal rye and clover or make other on-farm changes that absorb carbon dioxide into the soil. Such agriculture techniques could allow a net reduction in greenhouse gases. This project corresponds to one of the most substantial and challenging reforms from to tackle climate change, and the new administration will have to bring both the right and the left wings of the agricultural sector on board. The idea of a climate bank has gradually convinced part of the agricultural world in the US, yet several organizations from the agriculture lobby (the American Farm Bureau Federation for example) have shared doubts about this move, questioning the range of investment needed and underlining the risks of soil malpractices, while some current programs could back up efficient regenerative agriculture farms. The USDA also committed to boost other existing conservation programs.

En savoir plus: <https://tinyurl.com/sxf4eew5>

UC Davis ranked among best in world in veterinary science, and agriculture and forestry by QS



The QS (Quacquarelli Symonds) World University Rankings portfolio, inaugurated in 2004, has grown to become the world's most popular source of comparative data about university performance, through their flagship website TopUniversities.com. In its 2021 ranking by subject, the University of California (UC), Davis, took top spots in veterinary science, and agriculture and forestry.

Since veterinary science was added to the rankings in 2015, UC Davis has been first in the world five times and is No. 2 for just a second time now. The campus has held the No. 2 world ranking in agriculture and forestry since 2013 when that subject was first ranked. In addition to being top-ranked in these two subjects for 2021, the university captured top 50 world rankings in seven other subjects, among which environmental sciences scored 15th, and top 20 national rankings in eight

The College of Agricultural and Environmental Sciences has more than 7,400 undergraduates in 28 majors and 1,059 graduate students in 24 graduate groups and programs. According to UC Davis website, the college's researchers generate more than \$140 million in government, corporate and foundation awards. UC Davis is among the most published and cited U.S. research universities in agricultural sciences, animal science and plant sciences, environment and ecology, food science and nutrition, and soil sciences.

En savoir plus : <https://tinyurl.com/5ebyjeyw>

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USDA NIFA invests to support research innovations that improve soil health and climate smart agriculture and forestry.



Agriculture Secretary Tom Vilsack announced on April 21st that the U.S. Department of Agriculture's National Institute of Food and Agriculture (NIFA) will invest at least \$21.7 million in several key programs to help agricultural producers manage the impacts of climate change on their lands and production. NIFA awarded \$6.3 million for 14 Soil Health grants and \$5.4 million for seven Signals in the Soil grants through its Agriculture and Food Research Initiative (AFRI). NIFA also is investing at least \$10 million this year in a new AFRI program area priority called, "Extension, Education, and USDA Climate Hub Partnerships," to train the next generation of agriculturalists and foresters to incorporate climate change research into their management practices.

On the other hand, NIFA also invested through AFRI a total of \$15M in Food and Agriculture Cyberinformatics and Tools. NIFA awarded 18 Food and **Agriculture Cyberinformatics Tools grants** totaling \$10.4 million to initiate research on big data analytics, machine learning, artificial intelligence, and predictive technologies needed to keep U.S. agriculture on the leading edge of food and agricultural production. "USDA is committed to working alongside American producers, rural businesses and landowners to help them lead the way on addressing climate change, using the best USDA data and science to help improve their practices and spur new market opportunities," also said Vilsack in a USDA press release.

En savoir plus: <https://tinyurl.com/bmnhjhkm>

Cooperation Agreement Between the Agriculture & Food Systems Institute and the Inter-American Institute for Cooperation on Agriculture



On March 10, 2021, the Agriculture & Food Systems Institute (AFSI), based in Washington D.C., and the Inter-American Institute for Cooperation on Agriculture (IICA) signed a technical cooperation agreement, recognizing their shared commitment to improving understanding of agricultural technologies, responsible use, and capacity building in order to promote sustainable development and enhance the well-being of rural populations in the Americas. The AFSI team is excited to work with IICA on knowledge management processes, joint training and communication activities in IICA Member States, and studies in areas of common interest in the coming years.

En savoir plus : <https://tinyurl.com/6wcusfkt>

The Environmental Protection Agency pressed to curb emissions at hog farms and dairies



As large-scale hog and dairy operations contribute to rising greenhouse gas levels, a coalition of twenty-five advocacy organizations said in a petition on April 6th, 2021, calling the EPA (Environmental Protection Agency) to regulate them under federal air pollution laws, namely under a section of the Clean Air Act normally reserved for traditional industries.

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IFPRI launches its 2021 Global Food Policy Report



The National Oceanic and Atmospheric Administration (**NOAA**) and the National Institute of Standards and Technology (NIST) have installed a **Doppler lidar** instrument to an existing weather station on top of the Department of Commerce's Herbert Clark Hoover Building in Washington, D.C., to measure wind flow and turbulence in the lowest part of the atmosphere for a research project studying greenhouse gas emissions in the capital area.

The D.C. installation will contribute data to NIST's Northeast Corridor Testbed Project, which develops tools for measuring urban greenhouse gas emissions in the Washington, D.C./Baltimore region, with plans to include Boston in the future. The Air Resources Laboratory also uses the DC Net data to help the intelligence community understand how potentially hazardous gases and particles could be dispersed into urban areas.

The Northeast Corridor Testbed is a follow-on to a similar collaboration between NOAA and NIST in Indianapolis. The Indiana Flux Experiment was the first in NIST's system of urban greenhouse gas measurement testbeds, where scientists develop and evaluate methods for measuring and modeling changes in greenhouse gas emissions in an urban setting.

En savoir plus : <https://tinyurl.com/3cpyr8xc>

The Environmental Protection Agency pressed to curb emissions at hog farms and dairies

The coalition includes Sierra Club, John Hopkins Center for a Livable Future, Land Stewardship Project, Friends of the Earth, Food & Water Watch, Center for Food Safety, among other national and regional organizations. The petition specifically targets industrial dairy and hog operations that liquefy manure and confine at least 500 cows or 1,000 hogs without access to pasture.

"The methane from these dairy and hog operations has increased dramatically during recent decades and now accounts for 33% of agricultural methane emissions, 13 percent of total US methane emissions, and 1.3% of total US greenhouse gas emissions," the petition claims. The petitioners advocated for the use of pasture-based production systems as "the best system of emission reduction" which would help restore rural communities, help stabilize the climate and provide environmental justice.

In Tom Vilsack's recent testimony before the Congressional subcommittee that determines funding levels for USDA, members of Congress raised pressing animal welfare concerns, including the need to reform harmful factory farming and to make improvements to the USDA Organic Program.

En savoir plus: <https://tinyurl.com/6wcusfkt>

Avril 2021

CANADA

Le CRDI lance un appel à projets en recherche collaborative One Health sur les épidémies



Canada

Le 1er mars 2021, le Centre de Recherche pour le Développement International (CRDI), organisme en lien avec le Ministère des Affaires Étrangères canadien finançant la recherche et l'innovation dans les régions en développement, annonce une nouvelle possibilité de financement plusieurs projets autour de la thématique One Health (Une seule santé). L'objectif de cet appel à projets, fermé au 5 avril 2021, est de soutenir les innovations dans les politiques, programmes ou pratiques pouvant prévenir, contrôler et atténuer les risques de menaces épidémiques émergentes.

L'autre but visé est d'aider à protéger la santé et les moyens de subsistance des populations vulnérables, à renforcer les systèmes alimentaires locaux et à favoriser la durabilité environnementale. L'initiative est centrée sur les foyers géographiques des épidémies émergentes (Asie du Sud-Est, Amérique latine et Afrique centrale, orientale et occidentale) ainsi que sur les régions caractérisées par des facteurs humains, animaux et environnementaux d'épidémies infectieuses, tels que des modèles environnementaux et d'utilisation des terres non durables, la perte de biodiversité et l'interaction croissante entre les humains et la faune.

En savoir plus : <https://tinyurl.com/299vaxsb>

Vers une agriculture plus respectueuse du climat : AAFC annonce un plan à 185 M\$ promouvant les « Living Labs »

Le 18 mars, Marie-Claude Bibeau, ministre de l'Agriculture et de l'Agroalimentaire, a annoncé un investissement de CAD 185 millions sur les dix prochaines années dans le cadre du nouveau programme Solutions agricoles pour le climat (SAC). Ce programme vise à établir un solide réseau pancanadien de regroupements régionaux dirigés par les producteurs agricoles et composés de scientifiques et d'autres intervenants du secteur.

Pour être admissibles au programme SAC, les demandeurs doivent former un large réseau de partenariat au sein d'une province, y compris avec des groupes agricoles à but non lucratif, des organisations autochtones et des groupes environnementaux. Le programme est divisé en deux phases. La première phase, lancée depuis le 1er avril, vise à soutenir l'élaboration des propositions axées sur des pôles régionaux de collaboration, aussi connus sous le nom de « laboratoires vivants », ou Living Labs.

Le programme SAC est l'une des nombreuses nouvelles initiatives importantes entreprises par le gouvernement du Canada pour promouvoir la durabilité environnementale et la résilience dans le secteur agricole, et s'inscrit dans le plan climatique renforcé du Canada pour réduire les émissions de gaz à effet de serre de 30 % en dessous des niveaux de 2005 d'ici 2030, et pour atteindre la neutralité carbone d'ici 2050.

En savoir plus : <https://tinyurl.com/2p3euzjn>

Avril 2021

Gabrielle Bastien, founder of Regeneration Canada, elected Vice-President of the 4p1000 initiative



Gabrielle Bastien has been elected as the Vice-President of the 4p1000 initiative. She created Regeneration Canada, a non-profit organization created in 2016 and dedicated to promoting soil regeneration in order to mitigate climate change, restore biodiversity, improve water cycles, and support a healthy food system. Regeneration Canada organizes the yearly Living Soils Symposium, hosting leaders and pioneers of the regenerative movement to discuss the promising solutions that soil provides for climate change and food sovereignty.

4p1000 is an international initiative that seeks to demonstrate that agricultural soils can play a crucial role for food security and climate mitigation. Since Gabrielle attended the 4p1000 meeting at COP22 in Marrakesh in 2016, the organization has been an ally and partner of Regeneration Canada. It is an honor for her to serve in the position of Vice-President for the 4p1000, which has played and will continue to play a crucial role in the regenerative movement at a global level.

En savoir plus : <https://tinyurl.com/yak9w66a>

First virtual roundtable of the Canadian Food Policy Advisory Council



In June 2019, Minister of Agriculture and Agri-Food, Marie-Claude Bibeau, announced the first-ever Food Policy for Canada, a community organization dedicated to improving access to healthy food for all.

This also allowed the creation of the Canadian Food Policy Advisory Council, which will advise the Minister on current and emerging food-related issues that matter to Canadians, share information and best practices, assess gaps in policies and data. The Council's 23 members, drawn from the agriculture and food sector, health professionals, academics, and non-profit organizations working in food security, food recovery, and more, bring together diverse expertise and perspectives from across the country to help.

build a stronger and healthier food system for all Canadians. A first roundtable was organized on March 4, 2021. key discussion themes included:

- improving food security and food sovereignty;
- redressing inequities in the food system;
- improving local food chains and infrastructure.

En savoir plus : <https://tinyurl.com/2fe7k7f4>

Avril 2021

Federal budget for 2021 will support farmers to reduce emissions by improving practices



Federal budget, voted on April 19th, is Canadian's government plan to keep fighting against COVID-19. One chapter focuses on accelerating the net-zero transformation through innovation, under the program "Net Zero Accelerator", granted CAD 5 billion over seven years by budget 2021. Regarding agriculture, the government has allocated: over seven years by budget 2021. Regarding agriculture, the government has allocated:

- CAD 200 million over two years to encourage doing more with less nitrogen (GHG mitigation: 2.9 megatons), increasing adoption of cover cropping (GHG mitigation: 2.2 megatons), and normalizing rotational grazing (302,000 megatons).
- CAD 60 million over the next two years to protect existing trees and wetlands on farms (4.1 megatons), and \$10 million over the next two years to power farms with clean energy.

The funding announced in the budget responds directly to the priorities outlined by the farmer-led Task Force behind Farmers for Climate Solutions' Budget 2021 Recommendation Report.

En savoir plus : <https://tinyurl.com/6nhsbmc6>

Canada's Budget 2021: Building an Innovation Economy of the Future



Government
of Canada

Gouvernement
du Canada

Canada

The federal Canadian government revealed on April the 19th, the 2021 budget including a new strategy to look to challenges and opportunities that lie ahead in the years and decades to come. The plan builds on the competitive advantages of the Canadian economy and puts also focus on the science and innovation.

Among others the 2021 budget proposes to provide:

- 5 B-CAD over seven years to the **Net Zero Accelerator**. Building on the support for the Net Zero Accelerator announced in the strengthened climate plan, this funding would allow the government to provide up to 8 B-CAD of support for projects that will help reduce domestic greenhouse gas emissions across the Canadian economy;
- 2.2 B-CAD over seven years, towards growing **Life Sciences and Bio-manufacturing Sector**. This support would provide foundational investments to help build Canada's talent pipeline and research systems, and support the growth of Canadian life sciences firms;
- 500 M-CAD over five years to expand the **Industrial Research Assistance Program** to support up to 2,500 additional innovative small and medium-sized firms;

Avril 2021

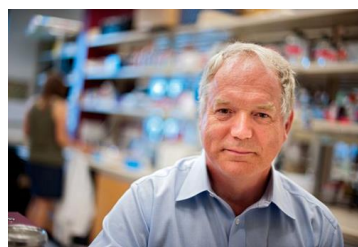
- 443.8 M-CAD over ten years in support the renewal of the **Pan-Canadian Artificial Intelligence Strategy**;

- 360 M-CAD over seven years to launch a **National Quantum Strategy**. The strategy will amplify Canada's significant strength in quantum research; grow our quantum-ready technologies, companies, and talent; and solidify Canada's global leadership in this area;

- 400 M-CAD over six years in support of a **Pan-Canadian Genomics Strategy**. This funding would provide 136.7 M-CAD over five years for mission-driven programming delivered by Genome Canada to kick-start the new strategy, and complement the government's existing genomics research and innovation programming.

En savoir plus : tinyurl.com/y926ana5
tinyurl.com/txzhax33

If we want to be ready for the next pandemic, Canada's biotech industry will need to be stronger



We are at a critical point in the fight against COVID-19 warns **Michael Houghton, the director of the University of Alberta's Li Ka Shing Applied Virology Institute** and the winner, in October, of the 2020 Nobel Prize, in his recent tribune. The pandemic has taught us many hard lessons – and one of the most critical is that Canada needs to develop and produce vaccines at home.

We need to be ready to adapt and produce new vaccines, especially as variants become more prevalent. We need to prepare now for the next pandemic to prevent the crippling impacts on the economy, education and the healthcare systems that we've experienced during COVID-19.

To do this, dedicated investment is essential. Canada is not short on talent. The unfortunate reality is that these Canadian ideas are now being translated into products and treatments by companies outside of Canada.

Recent research investments in bio manufacturing have increased and need to be sustained. On March 31, the federal and Ontario governments announced a major public-private partnership with Sanofi Pasteur to build an influenza-vaccine manufacturing facility in Toronto. This is a major step forward, but Canada must do more to capitalize on past federal and provincial investments in research to build a thriving biotech industry in several regions of the country.

En savoir plus: tinyurl.com/ypt8nszr

Avril 2021

Budget 2021 invests in Canada's next generation of innovators

The Government of Canada's Budget 2021 announced 708 M-CAD in funding over five years to MITACS to create 85,000 innovation internships.

This will give Canada's young innovators more opportunities to succeed while supporting businesses of all sizes across the country by providing them with the talent they need to get ahead in the competitive global marketplace.

As Canada emerges from the COVID-19 pandemic, our innovation ecosystem will play a critical role in our national economic recovery and future prosperity.

By ramping up collaborative innovation and bringing together highly educated students and postdoctoral researchers with industry, we play to our strengths as a country.

Increased internship opportunities will help grow our economy and fill critical gaps by providing companies with the talent they need and ensuring our highly trained expertise is deployed across all sectors of the economy.

En savoir plus :

tinyurl.com/a9kc2bdt tinyurl.com/43xk32ps

Universities Must Do More to Address the Climate Emergency



In a recent tribune, **Santa Ono** (President of the University of British Columbia) and **Grace Nosek** (PhD student at UBC, founder and inaugural student director of the UBC Climate Hub) urge in the face of unprecedented crises, we should be collaborating more with the youth movement to bring about significant and lasting systemic change.

In their innovative approach, the UBC seeks to bring our stakeholders together to move this initiative forward by employing the following practices:

- **Empowering** students as change agents, in part by funding the UBC Climate Hub;
- Moving beyond campus sustainability, by joining forces with other colleges and universities across the globe in committing to collective action to address climate change. For instance, UBC leads the University Climate Change Coalition (UC3), a collective of 22 leading North American research universities working together to help local communities achieve their climate goals and accelerate the transition to a just, low-carbon future;

- **Embedding** climate justice into action plans, in this effort UBC has convened an Indigenous community advisory committee to ensure that Indigenous peoples and perspectives shape the development and implementation of UBC's climate emergency response.

En savoir plus: tinyurl.com/vt8a6dub
tinyurl.com/9h279j7n tinyurl.com/uexxh

Avril 2021

U of T and Max Planck Society establish a centre to study neural science and technology



The University of Toronto has joined forces with Germany's Max Planck Society, one of the world's foremost scientific institutions, to establish a centre for the study of neural science and technology.

Hosted by both institutions, the Max Planck-University of Toronto Centre for Neural Science & Technology aims to develop and deploy advanced technologies to study brain circuits for the improvement of human health, while charting new territory in computing.

The new centre will divide its research focus into four main streams: micro/nanotechnology for neural interfaces and sensors; understanding the neural basis of memory and behavior; human neurons, microcircuits and cellular/molecular neurobiology; and neuroscience-inspired artificial intelligence and computing.

There are plans to train more than 25 doctoral students over the next five years. The collaboration would give PhD students access to resources and expertise not only at U of T and the Max Planck network, but also at the University Health Network (UHN), the Hospital for Sick Children and the Centre for Addiction and Mental Health.

En savoir plus: tinyurl.com/nn4jwf

UOttawa-led Pan-Canadian network receives 9 M-CAD from CIHR to track COVID-19 variants of concern

Experts across Canada, including researchers at McGill, are working to understand the impact of COVID-19 virus variants of concern on the health of Canadians and our public health measures. Recently, **Patty Hajdu, Minister of Health**, announced an investment of \$14.3 million from the Government of Canada, through the Canadian Institutes of Health Research (CIHR), to support new research on the COVID-19 virus



This includes \$9 million for the Coronavirus Variants Rapid Response Network, or CoVaRR-Net, led by Dr. Marc-André Langlois from the University of Ottawa, which will coordinate and align variants research throughout the country.

CoVaRR-Net will enable the rapid assessment of the immune response to the virus variants, as well as assessment of whether these variants are resistant to existing vaccines. The findings will provide decision makers with guidance regarding drug therapy, vaccine effectiveness, and other public health strategies.

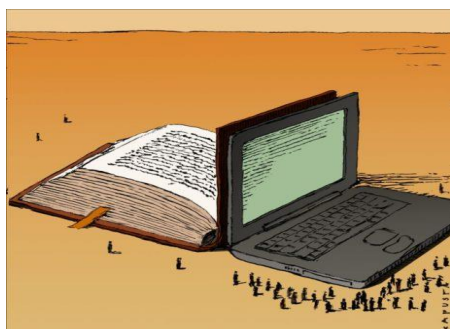
CoVaRR-Net will work with the Public Health Agency of Canada's National Microbiology Lab (NML), the Canadian COVID-19 Genomics Network (**CanCOGen**), provincial and territorial public health labs, and other national and international bodies.

En savoir plus :

tinyurl.com/356d2znz tinyurl.com/4fcs8k6v

Avril 2021

Les humanités numériques : entre la France et le Québec



Phénomène en pleine expansion depuis les 20 dernières années en Amérique du Nord et en Europe, les humanités numériques constituent une approche transdisciplinaire qui invite à repenser le sens de la recherche, à réfléchir les changements culturels occasionnés par les médiums technologiques et à favoriser une meilleure accessibilité des connaissances auprès des communautés.

À l'UdeM, elles sont au cœur des projets du Centre de recherche interuniversitaire sur les humanités numériques (CRIHN), qu'a fondé en 2013 le professeur titulaire au Département de littératures et de langues du monde, Michael Sinatra.

Une entente de collaboration récemment conclue avec Huma-Num, une infrastructure de recherche (TGIR) du CNRS basé au Campus Condorcet à Paris et spécialisé depuis plus de 15 ans en la matière, permettra un enrichissement mutuel des savoirs par le biais d'échanges professoraux et étudiants entre les deux établissements.

En savoir plus : tinyurl.com/5b5nd8pd
tinyurl.com/2xvpzpz8

Coopération franco-québécoise : 12 projets sélectionnés dans le cadre du programme Samuel de Champlain 2020-2021



Le programme Samuel-de-Champlain, financé dans le cadre de la coopération France-Québec, vise à soutenir des projets de coopération scientifique et universitaire entre les territoires français et québécois. Ce programme est financé dans le cadre de la Commission permanente de coopération franco-québécoise par, en France, le ministère de l'Europe et des Affaires étrangères et le ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation, et au Québec par le ministère des Relations internationales et de la Francophonie et le ministère de l'Enseignement supérieur.

Il vise notamment à :

- Faire émerger des partenariats interuniversitaires stratégiques entre la France et le Québec autour de pôles d'excellence en formation ou en recherche
- Soutenir les collaborations émergentes d'équipes à haut potentiel
- Soutenir des projets novateurs qui ont un effet structurant et qui présentent des perspectives encourageantes à long terme
- Encourager le rapprochement avec des acteurs extérieurs au milieu universitaire.

Retrouvez ici l'ensemble des projets retenus : tinyurl.com/4jh4ujhm

En savoir plus : tinyurl.com/3kxv9seb

Avril 2021

Lancement de l'appel à candidatures pour les Prix de thèse en cotutelle 2021



Relations
Internationales
et Francophonie
Québec

COOPÉRATION FRANCE-QUÉBEC

Soucieux d'encourager la mobilité des doctorants entre la France et le Québec, le Ministère des Relations internationales et de la Francophonie du Québec et le Consulat général de France à Québec offrent les Prix de thèse en cotutelle, qui récompensent les meilleures thèses produites dans le cadre d'une convention de cotutelle franco-québécoise.

Ces prix sont remis, chaque année, à un ou une étudiante québécois-e et à un-e étudiant-e française lors des Journées de la relève en recherche de l'Association francophone pour le savoir (ACFAS).

Public : Les détenteurs d'un doctorat effectué en cotutelle de thèse France-Québec, et ayant soutenu leur thèse du **1er janvier 2020 au 31 mars 2021**.

Prix : **1 500 \$ CAD** pour chacun des lauréats et la promotion des travaux effectués pendant le doctorat.

Date limite de dépôt des candidatures : le **lundi 31 mai 2021**.

En savoir plus : tinyurl.com/4z4kzfdp

Avril 2021

MEXIQUE

Le Président du Mexique AMLO demande aux Etats-Unis de soutenir l'initiative scientifique et écologique **Sembrando Vida**.



Lors du sommet pour le climat le président du Mexique a exposé les avantages environnementaux du programme **Sembrando Vida**. Cette initiative écologique cherche d'une part à résoudre les problèmes liés à la pauvreté rurale et d'autre part à contribuer au développement de l'agriculture dans les zones urbaines.

Dans ce contexte, pour être éligible au programme, il faut être majeur, vivre dans une zone rurale dont les municipalités présentent des disparités sociales et économiques être propriétaire ou possesseur de 2,5 hectares et volontaires pour travailler dans un projet agroforestier. L'objectif de ce programme est :

- Relancer l'économie locale
- Fortifier le tissu social dans les communautés indigènes.
- Études épidémiologiques
- Recherche, développement et innovation d'alternatives thérapeutiques
- Assurer une stabilité environnementale

En savoir plus : <https://tinyurl.com/rxnmk34b>

Organisation du 11^{ème} Congrès National de Technologie appliquée et des Sciences de la Santé. (UNAM)



Dans le cadre du congrès international de technologie appliquée et sciences de la santé, la Faculté de Médecine de l'Université Nationale Autonome du Mexique - UNAM organise un congrès sur le thème « **génération de nouvelles techniques de diagnostic et traitement** » en ligne 10 au 12 juin 2021. Sont attendus des médecins, professionnels de santé, des chercheurs ainsi que des étudiants en médecine.

En savoir plus : <https://tinyurl.com/568t2kmz>

Avril 2021

UNAM et Huawei s'associent pour créer un laboratoire spécialisé dans le développement de l'intelligence artificielle.

Sous l'impulsion du Service des relations économiques extérieures du Mexique (SRE)/(SE) UNAM-Huawei sera utilisé pour l'enseignement, la recherche et le développement de l'IA et de la science des données. Il sera situé dans le nouveau bâtiment de l'Institut de recherche en mathématiques appliquées et systèmes (IIMAS), à Ciudad Universitaria, avec des équipements donnés par Huawei Mexico.



Pour généraliser l'utilisation de l'intelligence artificielle au Mexique, il est nécessaire de créer une stratégie à long terme, d'établir des priorités, d'accroître la recherche, de ne plus dépendre de l'intelligence extérieure, d'éduquer et de former la population pour qu'elle connaisse les opportunités et de créer de nouvelles entreprises technologiques pour une transition vers l'économie numérique. "Le talent est la clé du développement de l'intelligence artificielle et il faut accorder une grande importance à l'éducation qui facilite la croissance des leaders pour les futures percées technologiques, afin de promouvoir son utilisation pour atteindre les objectifs de développement durable des Nations unies", a déclaré **M. LIU**, Directeur général de Huawei Mexico.

En savoir plus : <https://tinyurl.com/46ewkvjk>

Le Tecnológico de Monterrey présente son plan écologique et de changement climatique.

Dans une présentation en ligne, certains responsables de l'institution ont partagé les 6 lignes d'action stratégiques sur lesquelles l'institution travaillera dans le cadre de son plan à l'horizon 2025. Culture de la durabilité, atténuation, adaptation, éducation, recherche et liaison.



"Nous sommes certains que nous sommes face à l'opportunité de créer un monde meilleur. Nous avons encore le temps d'éviter les pires conséquences du changement climatique", ajoute **Inés Sáenz**, vice-présidente chargée de l'inclusion, de l'impact social et de la durabilité.

À cette fin, des études sur l'impact du changement climatique et la création de plans d'adaptation pour chacun des campus du Tec de Tec seront recherchées, entre autres actions.

Ces activités seraient axées sur la réduction des risques de catastrophe, l'adaptation des installations en fonction des écosystèmes et le renforcement de la capacité d'adaptation des communautés vulnérables, entre autres actions.

"L'atténuation ne suffit pas, il faut s'adapter à ces nouveaux changements avec des initiatives et des mesures visant à réduire l'impact", **explique Hernán García**, vice-président de Talent et Expérience.

En savoir plus : <https://tinyurl.com/scyenup8>



Avril 2021

Crédits Logos AdN: Atelier Mento

Crédits Photos/illustrations :

ETATS-UNIS: NIH-FAO-WHITE HOUSE – Pixabay (photos libres de credit) Unsplash (photos libres de credit) Adobe Stock- Davis University Kayana Szymczak for The New York Times - FABRICE COFFRINI/AFP VIA GETTY IMAGES - SCIENCE STOCK PHOTOGRAPHY/SCIENCE SOURCE - Asthma inhalerNIAID – The US National Science Foundation is a major source of research funding in the United States.Credit: Shutterstock

CANADA: (Clockwise from top left) U of T President Meric Gertler, Max Planck Society President Martin Stratmann, German Ambassador Sabine Sparwasser and Stéphane Dion, Canada's ambassador to Germany and special envoy to the European Union and Europe.

MEXIQUE: Unsplash-Pixabay-UNAM-

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