CONFERENCE PROGRAM
**Detailed Conference Program**

All times listed below are in Eastern Daylight Time (EDT)

### MONDAY, OCTOBER 25, 2021
- **10:00 – 10:30** Welcome Ceremony
- **10:30 – 11:15** Keynote 1: Dr. David Michaels
- **11:15 – 11:45** Poster Viewing 1 *(visit the Posters on the platform)*
- **11:45 – 13:15** Symposia 1 *(see page 4)*
- **13:15 – 14:00** Lunch / Dinner / Networking
- **14:00 – 14:45** Keynote 2: Dr. Jian Li
- **14:45 – 15:15** Poster Discussion 1 *(visit the Posters on the platform)*
- **15:15 – 16:15** Concurrent Session A *(see page 5)*
- **16:15** – Optional Networking

### TUESDAY, OCTOBER 26, 2021
- **10:00 – 10:45** Keynote 3: Dr. Julius Fobil
- **10:45 – 11:15** Poster Viewing 2 *(visit the Posters on the platform)*
- **11:15 – 12:15** Concurrent Session B *(see page 6)*
- **12:15 – 12:45** Poster Discussion 2 *(visit the Posters on the platform)*
- **12:45 – 13:15** Rapid Fire Session 1 *(see page 7)*
- **13:15 – 14:00** Lunch / Dinner / Networking
- **14:00 – 14:45** Keynote 4: Dr. Alejandra Vives
- **14:45 – 15:15** Early Career Network Business Meeting
- **15:15 – 16:15** Concurrent Session C *(see page 8)*
- **16:15** – Optional Networking

### WEDNESDAY, OCTOBER 27, 2021
- **09:00 – 10:00** Meet the Editors
- **10:00 – 10:45** Keynote 5: Dr. Michelle C. Turner
- **10:45 – 11:15** Poster Viewing 3 *(visit the Posters on the platform)*
- **11:15 – 12:15** Concurrent Session D *(see page 9)*
- **12:15 – 12:45** Poster Discussion 3 *(visit the Posters on the platform)*
- **12:45 – 13:15** Rapid Fire Session 2 *(see page 10)*
- **13:15 – 14:00** Lunch / Dinner / Networking
- **14:00 – 15:15** Concurrent Session E *(see page 11)*
- **15:15 – 15:45** Poster Viewing 4 *(visit the Posters on the platform)*
- **15:45 – 16:15** Rapid Fire Session 3 *(see page 12)*
- **16:15** – Optional Networking

### THURSDAY, OCTOBER 28, 2021
- **09:00 – 10:00** Meet the Government and International Agency….
- **10:00 – 10:45** Keynote 6: Dr. David Prezant
- **10:45 – 11:15** Poster Discussion 4 *(visit the Posters on the platform)*
- **11:15 – 12:15** Symposia 2 *(see page 13)*
- **12:45 – 14:00** Lunch / Dinner / Networking
- **13:00 – 14:00** EPICOH Business Meeting
- **14:00 – 15:15** Concurrent Session F *(see page 14)*
- **15:15 – 15:45** Closing Ceremony
Keynote Speakers

Monday, October 25, 2021 @ 10:30am EDT
COVID-19 is an Occupational Disease: Why Don’t We Treat It As One? Presented by Dr. David Michaels

Monday, October 25, 2021 @ 2:00pm EDT
Work Stress and Health: Where Are We and Where Do We Go? Presented by Dr. Jian Li

Tuesday, October 26, 2021 @ 10:00am EDT
Assessing work related exposures in the informal sector economy: A focus on electronic waste recovery workers Presented by Dr. Julius Fobil

Tuesday, October 26, 2021 @ 2:00pm EDT
Employment conditions, precarious employment and worker health and wellbeing Presented by Dr. Alejandra Vives

Wednesday, October 27, 2021 @ 10:00am EDT
EPICOH Mid-Career Award: International collaboration in occupational epidemiology for global impact Presented by Dr. Michelle Turner

Thursday, October 28, 2021 @ 10:00am EDT
World Trade Center Health Impacts 20 Years Later Presented by Dr. David Prezant
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<tbody>
<tr>
<td>Chairs: Anjoeka Pronk (the Netherlands), Susan Peters (the Netherlands)</td>
<td>Chairs: Antoon De Schryver (Belgium), Jerry Spiegel (Canada), Mary Ross (South Africa)</td>
<td>Chair: Jacqueline Ferguson (United States)</td>
<td>Chairs: Margaret Quinn (United States), Homero Harari (United States), Sherry Baron (United States)</td>
<td>Chairs: Kyriaki Papantoniou (Austria), Manolis Kogevinas (Spain)</td>
<td>Chairs: Vikki Ho (Canada), Franke Labrèche (Canada)</td>
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<tr>
<td>S1.2: Applying the exposome concept to working-life health: The EU EPHOR project Presenter: Anjoeka Pronk</td>
<td>S2.2: Incidence of COVID-19 by sector Presenter: Lode Godderis</td>
<td>S3.1: Suicide and Job Loss in the Diesel Exhaust in Miners Study II (DEMS II) Presenter: Jacqueline Ferguson</td>
<td>S4.2: Respiratory health impacts of cleaning and disinfecting exposures: does evidence support a link with COPD? Presenter: Orianne Dumas</td>
<td>S5.1: Night shift work and cancer risk: where do we stand, where should we go? Presenter: Kyriaki Papantoniou</td>
<td>S6.2: Gendered occupational inequalities and health over lifetime: how can we work them in? Presenter: Emilie Counil</td>
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<tr>
<td>S1.5: Exposome methods in occupational epidemiology: Use of text mining for developing Job Exposure Matrices Presenter: Martie Van Tongeren</td>
<td>S2.5: A research program to provide a comparative contextualized analysis of occupational COVID-19 among health workers: Preliminary insights from a South African-Canadian Collaboration Presenter: Jerry Spiegel</td>
<td>S3.4: Union burying ground: mortality, mortality inequalities, and sinking labor-union membership in the United States Presenter: Jerzy Eisenberg-Guyot</td>
<td>S4.5: Risk of asthma among professional cleaners in Denmark – results from a matched register-based cohort study Presenter: Camilla Sandal Seibæk</td>
<td>S5.4: Night shift work interventions – what do we need to know to make a difference? Presenter: Anne Helene Garde</td>
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### Concurrent Session Presentations A

**Monday, October 25, 2021**  
15:15 – 16:15 EDT

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<th>Work-Related Stress</th>
<th>Musculoskeletal (1)</th>
<th>Exposure Assessment: Dust, Fibers &amp; Metals</th>
<th>Breast Cancer</th>
<th>Specific Occupations</th>
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<tr>
<td><strong>A1</strong></td>
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<td><strong>Chairs:</strong> Itumeleng Ntatamala, Igor Portoghese</td>
<td><strong>Chairs:</strong> Ashish Mishra, Fernando Feijó</td>
<td><strong>Chairs:</strong> Paul Demers, Stinna Skaaby</td>
<td><strong>Chairs:</strong> Joanne Kim, France Labreche</td>
<td><strong>Chairs:</strong> Veronika Deffner, Stella Koutros</td>
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</tbody>
</table>
| A1.1: Work-related psychosocial risk factors for stress-related disorders: a systematic review and meta-analysis  
Presenter: Henk Van der Molen | A2.1: Associations between feeling cold at work and work performance in a cold-exposed working population from the Tromsø 6 study  
Presenter: Morten Skandler | A3.1: Associations of cumulative, alveolar and plasma indium with respiratory health outcomes at an indium-tin oxide manufacturing facility  
Presenter: Abbas Virji | A4.1: Breast cancer in Danish women occupationally exposed to diesel exhaust and polycyclic aromatic hydrocarbons  
Presenter: Julie Pedersen | A5.1: Health, lifestyle and occupational risks in 10,931 Information Technology workers  
Presenter: Drushca Lalloo |
| A1.2: Contributors to stress and burnout in junior doctors during the COVID-19 pandemic  
Presenter: Anli Yue Zhou | A2.2: Occupational demands associated with rotator cuff disease surgery: results from a novel linkage of a job-exposure matrix to the UK Biobank  
Presenter: Elizabeth Yanik | A3.2: Current respirable concentrations of quartz across occupations in Denmark  
Presenter: Signe Hjuler Boudigaard | A4.2: Occupational solar exposure and risk of sub-types of breast cancer in Danish women  
Presenter: Johanni Hansen | A5.2: Sensitization and dermatitis among epoxy exposed lamination workers producing wind turbine blades  
Presenter: Alexandra Golabek Christiansen |
| A1.3: All-cause mortality and the time-varying effects of psychosocial work stressors  
Presenter: Susan Stock | A3.3: Assessment of overexposure to multiple metals in electronic recycling facilities: using air samples and biomarkers to highlight potential toxicity  
Presenter: Sabrina Gravel | A4.3: Occupational exposures and breast cancer risk in the CECILE study  
Presenter: Miriam R. Siegel |
| A1.4: Cognitive impairment and work status among patients with work-related stress: validation of an objective cognitive screener  
Presenter: Johan Høy Jensen | A2.4: Patterns of opioid dispensing and associated wage replacement duration in workers with accepted claims for low back pain: a retrospective cohort study  
Presenter: Michael Di Donato | A3.4: Silica Exposure Estimates in Artificial Stone Benchtop Fabrication and Adverse Respiratory Outcomes  
Presenter: Deborah Glass | A4.4: Does understanding occupational male breast cancer help us understand female breast cancer?  
Presenter: Jeavana Sritharan | A5.4: Aluminum Dust Exposure and Risk of Neurodegenerative Diseases in a Cohort of Male Miners in Ontario, Canada  
Presenter: Xiaoke Zeng |
| A1.5: Transformational leadership and firefighters' well-being: A study with emergency team professionals  
Presenter: Mariana Neto | A2.5: Pain in healthcare workers: a perspective of multidisciplinary approach  
Presenter: Simone Fargetti | A3.5: Asbestos exposure in wastewater collection and treatment workers: a literature review and analysis of French exposure databases  
Presenter: Jean-Francois Sauve | A4.5:  | A5.5: Asbest Chrysotile Cohort Study profile, exposure distribution and outcomes  
Presenter: Ann Olsson |
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<th>Lung Cancer &amp; Mesothelioma</th>
<th>Policy &amp; Regulation</th>
<th>Work Organization</th>
<th>Disease Surveillance</th>
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<td><strong>B1</strong></td>
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<td><strong>Chairs:</strong> Leslie Stayner, Mengting Xu</td>
<td><strong>Chairs:</strong> Damien McElvenny, Martin Stevens</td>
<td><strong>Chairs:</strong> Rajiv Kumar Jain, Samira deGroot</td>
<td><strong>Chairs:</strong> Evelyne Cambron-Goulet, Parveen Bhatti</td>
<td><strong>Chairs:</strong> Jennifer Ritonja, Jonathan Hofmann</td>
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</tbody>
</table>
| **B1.1:** Changing trends for mesothelioma in Canada and their implications  
Presenter: Paul Demers | **B2.1:** Effectiveness evaluation of a regulatory training standard to prevent falls from heights in construction  
Presenter: Lynda Robson | **B3.1:** Work environment characteristics among marginal part-time workers in Denmark  
Presenter: Helena Breth Nielsen | **B4.1:** The value of plain chest radiograph as a diagnostic tool for TB relative to GeneXpert among ex-gold miners in Lesotho  
Presenter: Bolenthemente Maboso | **B5.1:** Altered levels of immune markers among male rotating night shift workers in Spain – the HORMONIT study  
Presenter: Barbara Harding |
| **B1.2:** Exploration of occupations as risk factors for lung cancer in multiple exposure hierarchical and penalization models  
Presenter: Calvin Ge | **B2.2:** Policy Issues on Work and Employment in Small Scale Mining Industries in the Philippines  
Presenter: Sophia Francesca Lu | **B3.2:** Validity and reliability properties of the Multifaceted Organizational Health Climate Assessment for measuring organizational health climate in service, clerical, and health care workers  
Presenter: Ryan Walsh | **B4.2:** Enhancing occupational disease surveillance using a job exposure matrix  
Presenter: Ashley Lau | **B5.2:** Literature review of biological monitoring studies to assess healthcare worker’s exposure to antineoplastic drugs  
Presenter: Naqiyah Motiwala |
| **B1.3:** Occupational physical activity and lung cancer risk among four cohorts of the Canadian Partnership for Tomorrow Project  
Presenter: Romain Pasquet | **B2.3:** Evolution of health inequalities in the Central American working population, 2011 – 2018  
Presenter: Michael Silva-Peñaherrera | **B3.3:** Changes in weekly working hours and time spent on direct patient care for doctors in Norway from 2016 to 2019: a study based on repeated surveys  
Presenter: Judith Rosta | **B4.3:** Lung and bladder cancer surveillance among construction workers in diesel engine exhaust exposed occupations in Ontario, Canada  
Presenter: Stephanie Ziembicki | **B5.3:** DNA damage in lymphocytes of female farmers measured using the alkaline comet assay.  
Presenter: Poppy Evenden |
| **B1.4:** Occupational and non-occupational factors and lung cancer mortality among workers of the Swiss National Cohort  
Presenter: Nicolas Bovio | **B2.4:** Setting Priorities in Occupational Health Research in Europe  
Presenter: Manolis Kogevinas | **B3.4:** The impact of within-individual changes in working conditions, health behaviour and BMI on work ability and self-rated health: a fixed-effects analysis among Dutch workers  
Presenter: David van de Ven | **B4.4:** How to predict obstructive sleep apnoea in professional drivers?  
Presenter: Elisabetta Pletea | **B5.4:** Urinary pesticide metabolite levels among farm workers in Malaysia: Pilot results from the IMPRESS study  
Presenter: Zulkhairul Naim Bin Sidek Ahmad |
| **B1.5:** The role of occupational exposures in lung cancer risk among women: preliminary results from a pooled case-control study of lung cancer  
Presenter: Mengting Xu | | **B3.5:** Examining variations in work disability duration by firm size: a comparative study of workers’ compensation claims in Canada and Australia  
Presenter: Chris McLeod | **B4.5:** Temporal trend and spatial pattern of mortality for malignant pleural mesothelioma in Taiwan during 1975-2019  
Presenter: Jing-Yi Wu | **B5.5:** The Biochemical Effects Of Lead Concentration On Oxidative Stress Parameters In Workers  
Presenter: Mehrzad Ebrahemzadih |
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<th>Burden of Disease</th>
<th>Agricultural Exposures</th>
<th>Shiftwork</th>
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<td><strong>Chair:</strong> Marc Schenker</td>
<td><strong>Chair:</strong> Saloshni Naidoo</td>
<td><strong>Chair:</strong> Mary Schubauer-Berigan</td>
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| **RFA1.1:** Estimating the burden of cardiovascular diseases and depression attributable to psychosocial work exposures in 28 European Union countries  
Presenter: Hélène Sultan-Taieb | **RFA2.1:** Agricultural exposures and risk of ovarian cancer in the AGRICulture and CANcer (AGRICAN) cohort  
Presenter: Marine Morin Renier | **RFA3.1:** The Association between Shift Work, Mental Health and Cardiometabolic Health in the Atlantic PATH Cohort  
Presenter: Ellen Sweeney |
| **RFA1.2:** Occupational factors related to musculoskeletal diseases (MSD) among nursing aides in nursing home in Taiwan  
Presenter: Isabella Yu-Ju Hung | **RFA2.2:** Exposure to pesticides and risk of Hodgkin lymphoma in an international consortium of agricultural cohorts (AGRICOH)  
Presenter: Joanne Kim | **RFA3.2:** Determinants of sleep patterns in health care professionals working permanent night shifts or rotating day shifts: a multivariate analysis based on one-week sleep diaries and sensor data  
Presenter: Pascal Guenel |
| **RFA1.3:** Cause-specific mortality and site-specific cancer incidence among greenspace workers in the AGRICAN cohort study.  
Presenter: Lucie De Graaf | **RFA2.3:** Collecting real-time self-reported information on intermittent agricultural activities using smartphones  
Presenter: Pabitra Josse | **RFA3.3:** Duration of night shift work is associated with age acceleration in hypersusceptible female nurses  
Presenter: Michele Carugno |
| **RFA1.4:** Sickness absence and mechanical and psychosocial work exposures across occupational groups in Norway  
Presenter: Karina Undem | **RFA2.4:** Occupational Risk Exposures to Pesticides Among Farmers and Farmworkers in Philippines  
Presenter: Jinky Leilanie Lu | **RFA3.4:** Night Work Characteristics and Incidence of Coronary Heart Disease: Exposure-response Relations  
Presenter: Jesper Medom Vestergaard |
| **RFA1.5:** Occupational risk of salmonellosis and campylobacteriosis: a nationwide population-based registry study  
Presenter: Janneke Duijster | **RFA2.5:** Agricultural exposures and risk of Lymphoplasmacytic lymphoma/Waldenström’s macroglobulinemia in the AGRICulture and CANcer (AGRICAN) cohort  
Presenter: Amandine Busson | **RFA3.5:** Night shift work increases the risk of diabetes: a 17-year follow-up cohort study among Asian healthcare workers  
Presenter: Wan-Chin Chen |
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<tr>
<th>Sex &amp; Gender</th>
<th>Respiratory Effects</th>
<th>Musculoskeletal (2)</th>
<th>Job Control</th>
<th>Methods</th>
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<td>Presenter: Katrina Blindow</td>
<td>Presenter: Sara De Matteis</td>
<td>Presenter: Ivan Manuel Nicolau França Chivambo</td>
<td>Presenter: Ann Dyreborg Larsen</td>
<td>Presenter: Michel Grzebyk</td>
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<td>C1.3: Association of child neurodevelopmental and behavioural problems with maternal unemployment in a population-based birth cohort</td>
<td>C2.3: A population perspective for the prevention of occupational asthma (European Community Respiratory Health Survey-ECRHS)</td>
<td>C3.3: Does heavy physical workload or low decision authority aggravate the effect of musculoskeletal pain on the risk of poor self-reported physical workability? A cohort study of Swedish men and women</td>
<td>C4.3: The mediating role of unhealthy behaviors and body mass index in the relationship between high job strain and self-rated poor health among lower educated workers</td>
<td>C5.3: Evaluating the impact of sex and gender on the performance of machine learning for auto encoding of job titles</td>
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<td>Presenter: Joana Amaro</td>
<td>Presenter: Manolis Kogevinas</td>
<td>Presenter: Kathryn Badarin</td>
<td>Presenter: Sandra van Oostrom</td>
<td>Presenter: Christopher J. O. Baker</td>
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<td>C1.4: The role of gender in the association between sexual harassment at work and suicidal ideation: a study with civil servants from a middle-income country</td>
<td>C2.4: Styrene associated respiratory outcomes among reinforced plastic industry workers.</td>
<td>C3.4: Prevalence, predictors and wage replacement duration associated with diagnostic imaging in Australian workers with accepted claims for low back pain: a retrospective cohort study</td>
<td>C4.4: Latent profile analysis: an alternative perspective on job sub-types of the Job Demand–Control–Support model</td>
<td>C5.4: An application of a pseudolikelihood approach in a counter-matched study of bladder cancer in a cohort of steel workers exposed to metalworking fluid mists</td>
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<td>Presenter: Fernando Feijó</td>
<td>Presenter: Zanele Zulu</td>
<td>Presenter: Michael Di Donato</td>
<td>Presenter: Igor Portoghese</td>
<td>Presenter: Michel Grzebyk</td>
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<tr>
<td>C1.5: Men and women at work in Canada, 1991-2016</td>
<td>C2.5: Chronic respiratory disease in the Ontario mining industry</td>
<td>C3.5: Occupational lifting, pushing and risk of subacromial impingement syndrome surgery: a quantitative risk assessment</td>
<td>C4.5: Determinants of burnout among teachers: a systematic review of longitudinal studies</td>
<td>C5.5: Concordance between the Canadian job-exposure matrix (CANJEM) and expert assessment in occupational exposure assessment among jobs held by women</td>
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<tr>
<td>Presenter: Emma Quinn</td>
<td>Presenter: Colin Bernaault</td>
<td>Presenter: Annett Dalbøge</td>
<td>Presenter: Dragan Mijakoski</td>
<td>Presenter: Mengting Xu</td>
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<tr>
<td>Return to Work</td>
<td>Aging Workforce</td>
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<td><strong>Chairs:</strong> Alex Burdorf, Ping Shih</td>
<td><strong>Chairs:</strong> John Beard, Lilah Rinsky Halivni</td>
<td><strong>Chairs:</strong> France Labreche, Avinoo Biswas</td>
<td><strong>Chairs:</strong> Geoffrey M. Calvert, Amira Omrane</td>
<td><strong>Chairs:</strong> Henrik Kolstadt, Barbara Harding</td>
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<tr>
<td>D1.1: Employees receiving inpatient treatment for common mental disorders in Germany: Factors associated with time to first and full return to work</td>
<td>D2.1: Association of Perceived Job Security and Chronic Health Conditions with Retirement in Older UK and U.S Workers</td>
<td>D3.1: Small Scale Mining in the Philippines: Occupational and Environmental Health Implication</td>
<td>D4.1: Risk of myocardial infarction among pigeon breeders exposed to organic dust</td>
<td>D5.1: Shift work and breast cancer. A cohort study from Finland based on survey and payroll data</td>
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<td>Presenter: Alexandra Sikora</td>
<td>Presenter: Miriam Mutambudzi</td>
<td>Presenter: Jinky Leilanie Lu</td>
<td>Presenter: Sandra lieby Rokkedrejer</td>
<td>Presenter: Mikko Härnä</td>
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<td>D2.2: Understanding age differences in retirement expectations using data from the Canadian Longitudinal Study on Aging</td>
<td>D3.2: Effect of exposure to psychosocial work factors on the occurrence of workplace injuries</td>
<td>D4.2: Associations among working hours, rotating shift works, and risk of cardiovascular diseases in Taiwan: analyses from the national level to the company level</td>
<td>D5.2: Exploring the impact of night shift work and melatonin on methylation in circadian genes</td>
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<td>Presenter: Jonathan Fan</td>
<td>Presenter: Stephanie Boini</td>
<td>Presenter: Beritna Kreshpaj</td>
<td>Presenter: Ro-Ting Lin</td>
<td>Presenter: Jennifer Ritonja</td>
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<td>D2.3: The complex association of perceived workplace safety, work environment, and national factors with the mental health of aging workers in Europe during the COVID-19 pandemic</td>
<td>D3.3: Under-reporting of non-fatal Occupational Injuries among precarious and non-precarious workers in Sweden</td>
<td>D4.3: Occupation and incident stroke in a U.S. general population cohort 45 years of age or older (REGARDS study)</td>
<td>D5.3: Night shift work, sleep disorders and lung cancer risk among women: results from a population-based case-control study in France (the WELCA study)</td>
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<tr>
<td>Presenter: Lilah Rinsky Halivni</td>
<td>Presenter: Bertina Kreshpaj</td>
<td>Presenter: Beritna Kreshpaj</td>
<td>Presenter: Tran Huynh</td>
<td>Presenter: Emilie Cordina-Duverger</td>
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<td>D2.4: Effects of changes in early retirement policies on labor force participation: the differential effects for vulnerable groups</td>
<td>D3.4: Difference in the Deaths of Dispair by Occupation, Massachusetts, 2000-2015</td>
<td>D4.4: The occupational distribution of MetS prevalence and incidence differs by sex and is not explained by age and health behavior: Results from 75,000 Dutch workers from 40 occupational groups</td>
<td>D5.4: The association between night shift work and risk of breast cancer: results from the Nightingale Study</td>
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<td>Presenter: Karen Oude Hengel</td>
<td>Presenter: Devan Hawkins</td>
<td>Presenter: Tran Huynh</td>
<td>Presenter: Sander van Zon</td>
<td>Presenter: Nina Berentzen</td>
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<td>D2.5: The influence of work-related factors on retirement decisions in the UK. The Health and Employment After Fifty Factors Influencing Retirement study (HEAF FIRST), a mixed-methods study</td>
<td>D3.5: Workplace wellness program interest, participation barriers, and associations with sociodemographics, health status, and workplace factors: A survey of workers with work-related permanent impairments</td>
<td>Presenter: Jacqueline Ferguson</td>
<td>D5.5: Beyond night work: why shift work without night work may still be harmful</td>
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<td>Presenter: Martin Stevens</td>
<td>Presenter: Jeanne Sears</td>
<td>Presenter: Jacqueline Ferguson</td>
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<tr>
<td>Work Organization and Return to Work RFB1</td>
<td>Exposure Assessment RFB2</td>
<td>Surveillance RFB3</td>
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<td><strong>Chair:</strong> Mieke Koehoorn</td>
<td><strong>Chair:</strong> Hans Kromhout</td>
<td><strong>Chair:</strong> Ellen Sweeney</td>
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<td><strong>RFB1.1:</strong> Association between mental health symptoms and shiftwork among Filipino women factory workers Presenter: Jinky Leilanie Lu</td>
<td><strong>RFB2.1:</strong> Evaluating approaches designed to increase sensitivity of capturing work task information in a multi-center hospital-based case-control study in Asia Presenter: Sarah Locke</td>
<td><strong>RFB3.1:</strong> Surveillance of COVID-19 cases among medical laboratory staff in South Africa Presenter: Kerry Wilson</td>
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<td><strong>RFB1.2:</strong> Does participation in modified return to work differ for immigrant compared to Canadian-born workers in British Columbia, Canada? Presenter: Mieke Koehoorn</td>
<td><strong>RFB2.2:</strong> Occupational exposure to agents and substances in the CARTaGENE cohort Presenter: Nolwenn Noisel</td>
<td><strong>RFB3.2:</strong> Occupational skin disease surveillance using a clinical patch test database over time: the results of the North American Contact Dermatitis Group: 2001-2016. Presenter: D. Linn Holness</td>
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<tr>
<td><strong>RFB1.3:</strong> Rates of return to work and work ability following knee replacement Presenter: Elena Zaballa</td>
<td><strong>RFB2.3:</strong> Keyword searches of O*NET job tasks for exposure assessment, United States of America Presenter: John Beard</td>
<td><strong>RFB3.3:</strong> Work-related head Injury and industry sectors in Finland – causes and circumstances Presenter: Ari Kaukiainen</td>
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<td><strong>RFB1.4:</strong> Music professors: ambassadors for the prevention of hearing loss in musicians Presenter: Pierangela Simões</td>
<td><strong>RFB2.4:</strong> The rate of noise-induced hearing loss in relation to occupational noise exposure among workers in Israel Presenter: Nyasha Makaruse</td>
<td><strong>RFB3.4:</strong> Scorpion sting in domestic service workers (homemakers) in Brazil: an epidemiological approach Presenter: Ana Caroline Caldas Almeida</td>
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<td><strong>RFB1.5:</strong> Workplace Psychosocial Hazards are associated with Emotional Distress and Burnout in Civil Aviation Pilots Presenter: Chung-Yen Chen</td>
<td><strong>RFB2.5:</strong> Multifactorial approach for assessing work ability among nursing staff in Monastir Teaching Hospital, Tunisia Presenter: Irtiyah Merchaoui</td>
<td><strong>RFB3.5:</strong> Overlapping Vulnerabilities in Workers of the Electronics Recycling Industry Formal Sector Presenter: Diana Ceballos</td>
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### Concurrent Session Presentations E

**Wednesday, October 27, 2021**

**14:00 – 15:15 EDT**

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<tr>
<th>COVID-19 (1)</th>
<th>Radiation</th>
<th>Psychosocial &amp; Mental Health (1)</th>
<th>Cancer</th>
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<tr>
<td><strong>E1</strong></td>
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**Chairs:** Neil Pearce, Christine Cramer

**E1.1:** Occupational risk factors for SARS-CoV-2 infection and COVID-19: Results from the COVICAT cohort study in Catalonia, Spain.
- **Presenter:** Kurt Straif

**E1.2:** Risk of inpatient care with covid-19 in different occupational groups: the role of close human contacts in the work environment
- **Presenter:** Magnus Aldering

**E1.3:** Low back pain occurrence and evolution in different work situations during covid-19 epidemic lockdown from 17 March to 10 May 2020, in metropolitan France
- **Presenter:** Natacha Fouquet

**E1.4:** Impact of the COVID-19 pandemic on key workers in England: findings from the Health and Employment After Fifty (HEAF) Study
- **Presenter:** Stefania D’Angelo

**E1.5:** Occupational characteristics associated with SARS-CoV-2 infection in the UK Biobank during August-November 2020
- **Presenter:** Elizabeth Yanik

**E1.6:** An umbrella review of the work and health impacts of working in a pandemic environment
- **Presenter:** Jonathan Fan

**Chairs:** Michelle Turner, Alberto Modenese

**E2.1:** Cancer mortality through 2016 among uranium miners on the Colorado Plateau: interactions of radon with smoking and time since exposure
- **Presenter:** Mary Schubauer-Berigan

**E2.2:** Does radon cause diseases other than lung cancer? Results from the German uranium miner cohort study
- **Presenter:** Nora Fenske

**E2.3:** Radon exposure and risk of death from circulatory system diseases among a large cohort of uranium miners - the PUMA study
- **Presenter:** Estelle Rage-de Moissy

**E2.4:** Solar UVR exposure among outdoor workers in Alberta: Measurements and protective behaviours
- **Presenter:** Cheryl Peters

**E2.5:** Mortality in a cohort of German underground uranium miners, 1960-2013
- **Presenter:** Veronika Deffner

**E2.6:** Occupational exposure levels of solar ultraviolet radiation: an EPHOR review
- **Presenter:** Elise Tott Würtz

**Chairs:** Sandra van Oostrom, Chung-Yen Chen

**E3.1:** The Impact of Workplace Social Support on Mental Health Functioning: A Cohort Study of the Workforce in Stockholm County, Sweden
- **Presenter:** Kathryn Badarin

**E3.2:** “It’s like juggling, constantly trying to keep all balls in the air”: A qualitative study of the support needs of working caregivers taking care of an older adult
- **Presenter:** Eline Vos

**E3.3:** Relations between work-related factors and depression and injury among janitors
- **Presenter:** Andrew Ryan

**E3.4:** Work functioning among young adults: The role of mental health problems from childhood to young adulthood
- **Presenter:** Samira de Groot

**E3.5:** Long-term employment status among patients with suspected work-related mental health problems: A 5-year follow-up study
- **Presenter:** Marianne Jarle

**E3.6:** Job strain, low social support from supervisors and material handling among brazilian workers: a study on ethnicity and work
- **Presenter:** Janaina Siqueira

**Chairs:** Christine Barul, Debra Silverman

**E4.1:** Diesel exhaust exposure and somatic mutations in bladder tumors
- **Presenter:** Stella Koutras

**E4.2:** Exposure to carbamate insecticides and risks of non-Hodgkin lymphomas in the French Agriculture and Cancer cohort (AGRICAN)
- **Presenter:** Kenza Abdelmaki

**E4.3:** Incidence of potentially exposure-related cancer sites among Norwegian firefighters: 58 years of follow-up
- **Presenter:** Niki Silverman

**E4.4:** Early detection of prostate cancer in firefighters – a register-based study of prognostic factors and survival
- **Presenter:** Jarle Jakobsen

**E4.5:** Cancer surveillance among plastics and rubber manufacturing workers in Ontario, Canada
- **Presenter:** Nathan DeBono

**E4.6:** Colorectal cancer among farmers in the AGRICAN cohort study
- **Presenter:** Madar Talboub

**Chairs:** Ioannis Basinas, Michael Di Donato

**E5.1:** Complex intervention to prevent and manage musculoskeletal pain in nursing staff at work: cost-effectiveness of a clustered randomized controlled trial (INTEVAL_Spain)
- **Presenter:** Merce Soler-Font

**E5.2:** Evaluating program effectiveness on return-to-work after work-related injury in the construction sector
- **Presenter:** Chris McLeod

**E5.3:** Pilot testing two take-home exposure prevention educational sessions with construction workers and their families
- **Presenter:** Grant Tore

**E5.4:** Barriers and Facilitators for Participation in Workplace Health Promotion Programs: Peer-to-Peer Interviews Among Employees
- **Presenter:** Denise Smit

**E5.5:** Assessment of Multidisciplinary Intervention of Occupational Medicine and Physiotherapy on Return to Work of Patients with Musculoskeletal Disorders
- **Presenter:** Talal Ibrahim

**E5.6:** Evaluating changes to sickness absence in prison staff following the implementation of a national prison smokefree policy
- **Presenter:** Evangelia Demou
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<th>Cancer RFC2</th>
<th>Respiratory RFC3</th>
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<tr>
<td><strong>Chair:</strong> Chris McLeod</td>
<td><strong>Chair:</strong> Manolis Kogevinas</td>
<td><strong>Chair:</strong> Colin Berriault</td>
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| **RFC1.1:** Age and gender differences in perceived work-related mental health in New Zealand  
Presenter: Trang Khieu | **RFC2.1:** Long working hours and prostate cancer risk: results from a population-based case-control study  
Presenter: Charlotte Salmon | **RFC3.1:** Asbestos-related disease in the Ontario Asbestos Workers Register  
Presenter: Victoria H Arrandale |
| **RFC1.2:** Association between workplace bullying and acute and chronic low back pain in civil servants from a middle-income country  
Presenter: Fernando Feijó | **RFC2.2:** The exposure response relation between occupational exposure to wood dust and sinonasal cancer  
Presenter: Marie Kempf Frydendahl | **RFC3.2:** Work-related respiratory symptoms and eczema among Swedish eyelash stylists  
Presenter: Sara Gunnare |
| **RFC1.3:** The Population Major Depressive Disorder In The Years After Severe Wildfires In Portugal Centro Region: The Role Of Perceived Health Status, Health Vulnerability, Resilience And Sense Of Coherence  
Presenter: Mariana Neto | **RFC2.3:** The occupational environment and ovarian cancer risk  
Presenter: Lisa Leung | **RFC3.3:** Occupational Rhinitis and Asthma Caused by Isocyanates  
Presenter: Siwar Chemingui |
| **RFC1.4:** Does the timing and duration of mental health problems during childhood and adolescence matter for labour market participation of young adults?  
Presenter: Samira de Groo | **RFC2.4:** Reincorporation to labour market of a sample of cancer survivors in Catalonia (Spain) between 2012 and 2015. A comparison between women and men.  
Presenter: Amaya Ayala-Garcia | **RFC3.4:** Respiratory and allergic symptoms in cannabis cultivation workers, California, US  
Presenter: Stella Beckman |
| **RFC1.5:** Adolescent trainees with learning disabilities on occupational health and safety: perception of risks and gender differences  
Presenter: Myriam Bérubé | **RFC2.5:** Inter-rater reliability of occupational exposure assessment in a case-control study  
Presenter: Emmanuelle Batisse | **RFC3.5:** Cardiorespiratory fitness of police recruits: Norm-referenced values and 14-year temporal trend.  
Presenter: Sébastien Poirier |
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<td>S7</td>
<td>Occupational Health from a Life Course Perspective</td>
<td>Anjum Hajati (United States)</td>
<td>Amaya Ayala-Garcia</td>
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<td>S8</td>
<td>A Roadmap for Artificial Intelligence and Occupational Health in the 21st Century</td>
<td>Ellen Sweeney (Canada)</td>
<td>Cesar Augusto Suarez Garcia</td>
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<td>S9</td>
<td>Key Characteristics of Carcinogens: Effective Use of Mechanistic Evidence from Occupational Epidemiology Studies in Cancer Hazard Identification</td>
<td>Mary K. Schubauer-Berigan (United Kingdom)</td>
<td>Martie van Tongeren (Norway)</td>
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<tr>
<td>S10</td>
<td>Occupation &amp; COVID-19</td>
<td>Michelle C. Turner (Spain)</td>
<td>Michelle A. Rhodes (United States)</td>
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<td>S11</td>
<td>Coordination and Harmonization of Occupational Cohorts, the International OMEGA-NET Network</td>
<td>Ingrid Sivesind-Mehlum (Norway)</td>
<td>Laura Beane Freeman (United States)</td>
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<tr>
<td>S12</td>
<td>AGRICOH: A Consortium of Agricultural Cohorts</td>
<td>Laura Beane Freeman (United States), Pierre Lebailly (France)</td>
<td>Laura Beane Freeman (United States)</td>
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**Concurrent Session Presentations F**  
**Thursday, October 28, 2021**  
**14:00 – 15:15 EDT**

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<tr>
<th>COVID-19 (2) F1</th>
<th>Pesticides F2</th>
<th>Exposure-Assessment F3</th>
<th>Psychosocial &amp; Mental Health (2) F4</th>
<th>Heat &amp; Climate Change F5</th>
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<tr>
<td><strong>Chairs:</strong> Marissa Baker, Stefania D'Angelo</td>
<td><strong>Chairs:</strong> Pascal Wild, Amandine Busson</td>
<td><strong>Chairs:</strong> Sabrina Gravel, Abbas Virji</td>
<td><strong>Chairs:</strong> Margaret Quinn, Fernando Feijo</td>
<td><strong>Chairs:</strong> Sandra Cortes, Richard Remigio</td>
</tr>
<tr>
<td>F1.4: SARS-CoV-2 antibody seroprevalence among firefighters in Orange County, California</td>
<td>F2.4: Permethrin use and circulating immunologic markers: a longitudinal investigation in the Biomarkers of Exposure and Effect in Agriculture study</td>
<td>F3.4: Assessing Occupational and Environmental Deployment-Related Military Exposure Among U.S. Veterans</td>
<td>F4.4: Occupational daytime light exposure and risk of initiating antidepressant treatment among men and women: a national follow-up study</td>
<td>F5.4: Hot ambient temperature and its impacts on Adverse Pregnancy Outcome (APO) - A Systematic Review</td>
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<tr>
<td>F1.5: Vaccine Hesitancy among Canadian Paramedics during the COVID-19 Pandemic</td>
<td>F2.5: Translating Observational Research into Regulatory Science: The Role of U.S. EPA’s Office of Pesticide Programs in Evaluating Epidemiologic Evidence</td>
<td>F3.5: Pesticide exposure in fruit growers: comparison of levels and determinants from the CANEPA field study and from the “Agricultural Operator Exposure Model” (AOEM) predictions</td>
<td>F4.5: Mental health in a sample of 72,452 workers from 8 countries of Latin America: results of health and working conditions surveys</td>
<td>F5.5: Occupational heat exposures and renal health implications – A cross-sectional study among commercial kitchen workers in South India</td>
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