

Curriculum vitae

Ariane SULTAN

Adresse professionnelle : Equipe Nutrition-Diabète, CHU Lapeyronie. 371 avenue Gaston Giraud, 34295 Montpellier

Mel : a-sultan@chu-montpellier.fr

Fonctions actuelles : PU-PH en Nutrition 1^{ère} classe, CHU Montpellier

Numéro inscription conseil de l'ordre des médecins de l'Hérault 34/01137

Numéro RPPS : 10003251039

Titres hospitaliers :

2022 : PU-PH en Nutrition 1^{ère} classe, CHU Montpellier

Diplômes :

- Doctorat d'Etat en Médecine et diplôme d'études spécialisées en Endocrinologie et Maladies Métaboliques 2002

- Doctorat d'Université, Sciences Chimiques et Biologiques pour la Santé, soutenu le 30/11/2007 (co-direction, séjour de 18 mois *Karolinska Institute*, Stockholm, Suède). Financement par bourse européenne Marie Curie.

- DESC de Nutrition 2008
- DU Pédagogie Médicale 2008
- DIU Européen Nutrition thérapeutique 2009
- Habilitation à Diriger la Recherche 2012
- Master Gestion et Politiques de Santé 2022-2023, institut de Sciences Politiques, Paris, France

Activités Recherche :

Membre de PHYMEDEXP, INSERM, CNRS, Université Montpellier

Membre de la DRCI CHU Montpellier

Membre du CEED (centre européen du diabète)

Co-responsable Master Médecine expérimentale et Régénératrice (M1 et M2), parcours Biologie Santé, Université Montpellier.

Financements obtenus ces 5 dernières années :

Investigateur principal PHRC-N 2023 Obsywe: Interest of high-dose semaglutide in the prevention of weight gain induced by atypical antipsychotic treatment

Investigateur principal étude FREESCA 2021: Valeur pronostique des paramètres glycémiques mesurés avec le freestyle libre Pro dans le SCA. **Financement par PHRC-Inter-régional en 2021.**

Investigateur principal : Relation entre risque d'amputation chez les personnes diabétiques porteuses de plaies du pied et les ressources/consommations en soins en France. Utilisation de la base du Système National des Données de Santé (SNDS). Financement exceptionnel par la SFD 2019.

Co-investigateur étude FLUO : Évaluation de l'immunogénicité et la tolérance de deux stratégies de vaccination contre la grippe chez des patients adultes avec une obésité sévère (IMC > 35 kg/m²). Financement par PHRC national 2021.

Investigateur principal étude FREEDIA : Intérêt du freestyle libre 2 comme outil d'éducation thérapeutique chez les patients diabétiques de type 2 récemment diagnostiqués. Financement AOI CHU Montpellier 2022.

Investigateur principal étude Obsywe : *Interest of high-dose semaglutide in the prevention of weight gain induced by atypical antipsychotic treatment.* Financement par PHRC-National en 2023.

Co-investigateur étude Sémadialyse : *Efficacy and safety of semaglutide in obese dialysis patients.* Financement par PHRC-National en 2023.

Co-investigateur étude Com SCALE. Conception et validation d'une échelle d'évaluation de l'adhésion médicamenteuse chez des patients atteints de pathologie(s) chronique(s). Financement par PHRC inter-régional 2023.

Associations :

Trésorière association DREAM (Diabète Recherche Éducation Alimentation Métabolisme).

Membre de Solidarité Diabète (association intervenant dans quartiers prioritaires de Montpellier): animation d'ateliers d'ETP.

Trésorière association Recyclez-Vous (association de réinsertion professionnelle grâce à des ateliers de réparation de vélo).

Liste publications scientifiques :

Furan fatty acid extracted from Hevea brasiliensis latex increases muscle mass in mice.

Pelletier F, Durand E, Chaiyut J, Bronstein C, Pessemesse L, Vaysse L, Liengprayoon S, Gaillet S, Brioché T, Bertrand-Gaday C, Coudray C, **Sultan A**, Feillet-Coudray C, Casas F. *Biomed Pharmacother.* 2023 Oct;166:115330.

Use of the SINBAD score as a predicting tool for major adverse foot events in patients with diabetic foot ulcer: A French multicentre study.

Ha Van G, Schuldiner S, **Sultan A**, Bouillet B, Martini J, Vouillarmet J, Menai M, Foucher A, Bourron O, Hartemann A, Perrier A. *Diabetes Metab Res Rev.* 2023 Jul 31:e3705.

Preventive nutritional supplementation with furan fatty acid in a DIO mouse model increases muscle mass and reduces metabolic disorders.

Dore L, Durand E, Bonafos B, Chaiyut J, Vaysse L, Liengprayoon S, Gaillet S, Pessemesse L, Lambert K, Bertrand-Gaday C, Coudray C, **Sultan A**, Casas F, Feillet-Coudray C. *Biomed Pharmacother.* 2023 Aug;164:114945.

High prevalence of malnutrition in systemic sclerosis: Results from a French monocentric cross-sectional study.

Rivet V, Riviere S, Goulabchand R, Suzon B, Henneon P, Partouche L, Rullier P, Quellec AL, Konate A, Schiffmann A, Vincent T, Ziane R, Flori N, Picot MC, **Sultan A**, Maria ATJ, Guilpain P. *Nutrition.* 2023 Jul 27;116:112171.

Real-world treatment patterns and diagnosis of charcot foot in franco-belgian diabetic foot expert centers (The EPiChar Study).

Julien CA, Ha Van G, M'Bemba J, Bourgeon M, Dardari D, Lepeut M, Dumont I, Zemmache MZ, Serrand C, Bouillet B, **Sultan A**, Schuldiner S; EPiChar study group. *Acta Diabetol.* 2023 Sep;60(9):1209-1218.

Semaglutide 2.4 mg/week for weight loss in patients with severe obesity and with or without a history of bariatric surgery. JB. Bonnet, S. Tournayre, J. Anitcheou, M. Faivre, C. Boegner, A. Jalek, D. Jullien, V. Attalin, J. Myzia, L. Marty, K. Youadigue, D. Nocca, **A. Sultan**, A. Avignon. *In revision Obesity* 2023.

Omega-3 to omega-6 fatty acid oxidation ratio as a novel inflammation resolution marker for metabolic complications in obesity. Sarajlic P, Vigor C, Avignon A, Zhou B, Oger C, Galano JM, Durand T, Sultan A, Bäck M. *Nutr Metab Cardiovasc Dis.* 2023 Mar 21:S0939-4753(23)00092-3.

Definition of an adapted cut-off for determining low lean tissue mass in older women with obesity: a comparison to current cut-offs. Maimoun L, Serrand C, Mura T, Renard E, Nocca D, Lefebvre P, Boudousq V, Avignon A, Mariano-Goulart D, **Sultan A**. *Sci Rep.* 2022 Oct 7;12(1):16905.

Tuberous xanthomatosis is not necessarily associated with increased plasma concentrations of cholestanol in cerebrotendinous xanthomatosis. JB Bonnet, P Couvert, M Di-filippo F Boissiere, JP Cristol T Sutra D Cheillan P Moulin, **A Sultan** *J Intern Med.* 2022 Sep 9.

In patients with anorexia nervosa, myokine levels are altered but are not associated with bone mineral density loss and bone turnover alteration. Maimoun L, Mariano-Goulart D, Huguet H, Renard E, Lefebvre P, Picot MC, Dupuy AM, Cristol JP, Courtet P, Boudousq V, Avignon A, Guillaume S, **Sultan A**. *Endocr Connect.* 2022 May 10;11(5):e210488.

Social Deprivation, Healthcare Access and Diabetic Foot Ulcer: A Narrative Review. JB Bonnet, **A. Sultan**. *Clin Med.* 2022 Sep 15;11(18):5431.

Impact of diabetes on COVID-19 prognosis beyond comorbidity burden: the CORONADO initiative. Cariou B, Wargny M, Boureau AS, Smati S, Tramunt B, Desaillood R, Lebeault M, Amadou C, Ancelle D, Balkau B, Bordier L, Borot S, Bourgeon M, Bourron O, Cosson E, Eisinger M, Gonfroy-Leymarie C, Julla JB, Marchand L, Meyer L, Seret-Bégué D, Simon D, **Sultan A**, Thivolet C, Vambergue A, Vatier C, Winiszewski P, Saulnier PJ, Bauduceau B, Gourdy P, Hadjadj S; CORONADO investigators. *Diabetologia.* 2022 Sep;65(9):1436-1449.

Pneumococcal and influenza vaccination coverage among at-risk adults: A 5-year French national observational study. Wyplosz B, Fernandes J, **Sultan A**, Roche N, Roubille F, Loubet P, Fougère B, Moulin B, Duhot D, Vainchtock A, Raguideau F, Lortet-Tieulent J, Blanc E, Moïsi J, Goussiaume G. *Vaccine.* 2022 Jul 7:S0264-410X(22)00841-6.

Clinical Correlates of Measured and Predicted Resting Energy Expenditure in Patients with Anorexia Nervosa: A Retrospective Cohort Study. Bou Khalil R, **Sultan A**, Seneque M, Richa S, Lefebvre P, Renard E, Courtet P, Maimoun L, Guillaume S. *Nutrients.* 2022 Jun 30;14(13):2727.

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Impact of hospitalization in medical units on vaccination coverage in people living with diabetes: a real-life study". L. Viault, C. Cool, L. Lohan, P. Cestac, E. Renard, F. Galtier, A. Castet-Nicolas, M. Villiet, A. Avignon, A. Sultan. C Breuker. *Medicina (Kaunas)*. 2022 Feb 1;58(2):219.

Narrative Review of the Relationship Between CKD and Diabetic Foot Ulcer. Bonnet JB, Sultan A. *Kidney Int Rep*. 2021 Dec 21;7(3):381-388.

Influenza vaccination and prognosis for COVID-19 in hospitalized patients with diabetes: Results from the CORONADO study. Diallo A, Pichelin M, Wargny M, Gourdy P, Bonnet JB, Hadjadj S, Cariou B, Sultan A, Galtier F; CORONADO investigators. *Diabetes Obes Metab*. 2021 Oct 17.

Patterns of eating behavior in people with severe obesity seeking weight loss treatment: An exploratory study. Romain AJ, Macioce V, Boegner C, Attalin V, Avignon A, Sultan A. *Appetite*. 2021 Nov 6:105797.

Modification of bone mineral density, bone geometry and volumetric BMD in young women with obesity. Maïmoun L, Renard E, Humbert L, Aouinti S, Mura T, Boudousq V, Lefebvre P, Mahadea K, Philibert P, de Santa-Barbara P, Avignon A, Guillaume S, Sultan A, Nocca D, Mariano-Goulart D. *Bone*. 2021 Sep;150:116005.

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Medication Errors at Hospital Admission and Discharge: Risk Factors and Impact of Medication Reconciliation Process to Improve Healthcare. Breuker C, Macioce V, Mura T, Castet-Nicolas A, Audurier Y, Boegner C, Jalabert A, Villiet M, Avignon A, Sultan A. *J Patient Saf*. 2021 Oct 1;17(7):e645-e652.

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Impact of women obesity and obesity severity on live birth rate after in vitro fertilization. C. Brunet, S. Aouinti, F. Huguet, V. Macioce, N. Ranisavljevic, A. Gala, A. Avignon, T. Mura, A. Sultan. *J Clin Med* 2020 Jul 28;9(8):2414.

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Phenotypic characteristics and prognosis of inpatients with COVID-19 and diabetes: the CORONADO study. Cariou B, Hadjadj S, Wargny M, Pichelin M, Al-Salameh A, Allix I, Amadou C, Arnault G, Baudoux F, Bauduceau B, Borot S, Bourgeon-Ghittori M, Bourron O, Boutoille D, Cazenave-Roblot F, Chaumeil C, Cosson E, Coudol S, Darmon P, Disse E, Ducet-Boiffard A, Gaborit B, Joubert M, Kerlan V, Laviolle B, Marchand L, Meyer L, Potier L, Prevost G, Riveline JP, Robert R, Saulnier PJ, Sultan A, Thébaut JF, Thivolet C, Tramunt B, Vatier C, Roussel R, Gautier JF, Gourdy P; CORONADO investigators. *Diabetologia*. 2020 May 29:1-16.

Comparison of a new versus standard removable offloading device in patients with neuropathic diabetic foot ulcers: a French national, multicentre, open-label randomized, controlled trial. Potier L, François M, Dardari D,

Feron M, Belhatem N, Nobecourt-Dupuy E, Dolz M, Bordier L, Ducloux R, Chibani A, Eveno DF, Crea Avila T, **Sultan A**, Baillet-Blanco L, Rigalleau V, Gand E, Saulnier PJ, Velho G, Roussel R, Pellenc Q, Dupré JC, Malgrange D, Marre M, Mohammedi K; ORTHODIAB study group (2020). *BMJ Open Diabetes Res Care*. 2020 May;8(1):e000954.

Body Composition in Individuals with Obesity According to Age and Sex: A Cross-Sectional Study. Maïmoun L, Mura T, Avignon A, Mariano-Goulart D, **Sultan A**. *J Clin Med*. 2020 Apr 21;9(4).

Modification of Muscle-Related Hormones in Women with Obesity: Potential Impact on Bone Metabolism. Maïmoun L, Mura T, Attalin V, Dupuy AM, Cristol JP, Avignon A, Mariano-Goulart D, **Sultan A**. *J Clin Med*. 2020 Apr 17;9(4).

Specific effects of anorexia nervosa and obesity on bone mineral density and bone turnover in young women. Maïmoun L, Garnerio P, Mura T, Nocca D, Lefebvre P, Philibert P, Seneque M, Gaspari L, Vauchot F, Courtet P, **Sultan A**, Piketty ML, Sultan C, Renard E, Guillaume S, Mariano-Goulart D. *J Clin Endocrinol Metab*. 2019 Dec 10.

Urinary prostaglandin D₂ and E₂ metabolites associate with abdominal obesity, glucose metabolism, and triglycerides in obese subjects. Pawelzik SC, Avignon A, Idborg H, Boegner C, Stanke-Labesque F, Jakobsson PJ, **Sultan A**, Bäck M. *Prostaglandins Other Lipid Mediat*. 2019 Dec;145:106361.

Trajectories of seasonal influenza vaccine uptake among French people with diabetes: a nationwide retrospective cohort study, 2006-2015. Bocquier A, Cortaredona S, Fressard L, Loulergue P, Raude J, **Sultan A**, Galtier F, Verger P. *BMC Public Health*. 2019 Jul 9;19(1):918.

Intuitive eating is associated with weight loss after bariatric surgery in women. M. Nogué, E. Nogué, N. Molinari, V. Macioce, A. Avignon, **A. Sultan**. *Am.J. of Clinical Nutrition* 2019 ; 2019 Jul 1;110(1):10-15.

Is hypertriglyceridemia atherogenic? Roubille F, **Sultan A**, Huet F, Leclercq F, Macia JC, Gervasoni R, Delseny D, Akodad M, Roubille C. *Presse Med*. 2018 Sep 24.

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Triglycerides and glycated hemoglobin for screening insulin resistance in obese patients. Boursier G, **Sultan A**, Molinari N, Maïmoun L, Boegner C, Picandet M, Kuster N, Bargnoux AS, Badiou S, Dupuy AM, Cristol JP, Avignon A. *Clin Biochem*. 2018 Mar;53:8-12.

Insulinorestantancy in Man: from mechanisms to nutritional interference. **Sultan A**. *Biol Aujourd'hui*. 2017;211(2):189-196.

Medication errors at hospital admission and discharge in Type 1 and 2 diabetes. Breuker C, Macioce V, Mura T, Audurier Y, Boegner C, Jalabert A, Villiet M, Castet-Nicolas A, Avignon A, **Sultan A**. *Diabet Med*. 2017 Dec;34(12):1742-1746.

Medication Errors at Hospital Admission and Discharge: Risk Factors and Impact of Medication Reconciliation Process to Improve Healthcare. Breuker C, Macioce V, Mura T, Castet-Nicolas A, Audurier Y, Boegner C, Jalabert A, Villiet M, Avignon A, **Sultan A**. *J Patient Saf*. 2017 Sep 4.

Evolution of silent myocardial ischaemia prevalence and cardiovascular disease risk factor management in Type 2 diabetes over a 10-year period: an observational study. **Sultan A**, Perriard F, Macioce V, Mariano-Goulart D, Boegner C, Daures JP, Avignon A. *Diabet Med*. 2017 Sep;34(9):1244-1251.

Comparison of HbA1c detection in whole blood and dried blood spots using an automated ion-exchange HPLC system. Maleska A, Hirtz C, Casteleyn E, Villard O, Ducos J, Avignon A, **Sultan A**, Lehmann S. *Bioanalysis*. 2017 Mar;9(5):427-434.

Vitamin D status is not related to insulin resistance in different phenotypes of moderate obesity. Al Masri M, Romain AJ, Boegner C, Maimoun L, Mariano-Goulart D, Attalin V, Leprieur E, Picandet M, Avignon A, **Sultan A**. *Appl Physiol Nutr Metab*. 2017 Apr;42(4):438-442.

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Patients with diabetes are at high risk of serious medication errors at hospital: Interest of clinical pharmacist intervention to improve healthcare. Breuker C, Abraham O, di Trapanie L, Mura T, Macioce V, Boegner C, Jalabert A, Villiet M, Castet-Nicolas A, Avignon A, **Sultan A**. *Eur J Intern Med*. 2017 Mar;38:38-45

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The evaluation of off-loading using a new removable oRTHOsis in DIABetic foot (ORTHODIAB) randomized controlled trial: study design and rationale. Mohammedi K, Potier L, François M, Dardari D, Feron M, Nobecourt-Dupuy E, Dolz M, Ducloux R, Chibani A, Eveno DF, Crea Avila T, **Sultan A**, Baillet-Blanco L, Rigalleau V, Velho G, Tubach F, Roussel R, Dupré JC, Malgrange D, Marre M. *J Foot Ankle Res*. 2016 Aug 22;9(1):34.

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Impact of obesity on bone mass throughout adult life: influence of gender and severity of obesity. L. Maimoun, T. Mura, E. Leprieur, A. Avignon, D. Mariano-Goulart, and A.Sultan. *Bone*. 2015 Dec 1. pii: S8756-3282(15)00421-4.

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Nutrient deficiencies in obese subjects considering bariatric surgery: a cross-sectional study. P. Lefebvre, F. Letois, **A. Sultan**, D. Nocca, T. Mura, F. Galtier. *Surgery for Obesity and Related Disorders* 2014 May-Jun;10(3):540-6.

Grape Polyphenols Prevent Fructose-Induced Oxidative Stress and Insulin Resistance in First-Degree Relatives of Type 2 Diabetic Patients. Hokayem M, Blond E, Vidal H, Lambert K, Meugnier E, Feillet-Coudray C, Coudray C, Pesenti S, Luyton C, Lambert-Porcheron S, Sauvinet V, Fedou C, Brun JF, Rieusset J, Bisbal C, **Sultan A**, Mercier J, Goudable J, Dupuy AM, Cristol JP, Laville M, Avignon A. *Diabetes Care*. 2012 Dec 28.

Distinguishing colonization from infection with *Staphylococcus aureus* in diabetic foot ulcers with miniaturized oligonucleotide arrays: a French multicenter study. Sotto A, Richard JL, Messad N, Molinari N, Jourdan N, Schuldiner S, **Sultan A**, Carrière C, Canivet B, Landraud L, Lina G, Lavigne JP; French Study Group on the Diabetic Foot. *Diabetes Care*. 2012 Mar;35(3):617-23.

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Continuous monitoring shows efficiency of frequent measurement of blood glucose to disclose hyperglycaemic deviations in non diabetic patients with acute coronary syndromes. Radermecker RP, **Sultan A**, Piot C, Saint Remy A, Avignon A, Renard E. *Diabetic Medicine* 2009; Feb;26(2):167-70.

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Long Term Outcome and Disability of Diabetic Patients Hospitalised for Diabetic Foot Ulcers: A 6.5 Year Follow-up Study. Ghanassia E, Villon L, Thuan Dit Dieudonné JF, Boegner C, Avignon A, **Sultan A**. *Diabetes Care*. 2008 Apr 4.

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Selective abrogation of T-cell transforming growth factor β signaling in ApoE^{-/-} mice reveals the 5-lipoxygenase activating protein as a target for reducing atherosclerosis and adipose tissue inflammation. Back M, **Sultan A**, Ovchinnikova O, Hansson GK. *Circ Res*. 2007 Apr 13;100(7):946-9.

Primary prevention of cardiovascular events and type 2 diabetes. **Sultan A**, Thuan JF, Avignon A. *Diabetes Metab*. 2006;32:559-5.

Myocardial perfusion imaging and cardiac events in a cohort of asymptomatic patients with diabetes living in southern France. **Sultan A**, Piot C, Mariano-Goulart D. et coll. *Diabet Med*. 2006 Apr;23(4):410-8.

PKC-B inhibition: a new therapeutic approach for diabetic complications? **Sultan A**, Avignon A. *Diabet Med*. 2006 Jun;32(3):205-13.

Osteoprotegerin is associated with silent coronary artery disease in high-risk but asymptomatic type 2 diabetic patients. Avignon A, **Sultan A**, Piot C. et coll. *Diabetes Care*. 2005 Sep;28(9):2176-80.

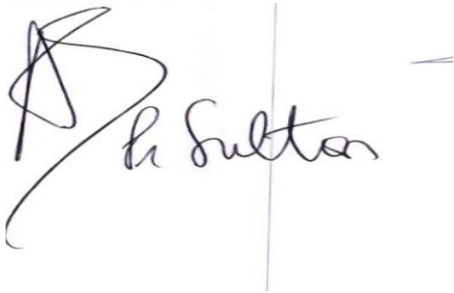
Risk factors for silent myocardial ischemia in high-risk type 1 diabetic patients. **Sultan A**, Piot C, Mariano-Goulart D. et coll. *Diabetes Care*. 2004 Jul;27(7):1745-7.

Inflammatory parameters are independent predictors of severe epicardial coronary stenosis in asymptomatic diabetic patients with silent myocardial ischemia. Piot C, Fontbonne A, **Sultan A**. et coll. *Diabetes Care*. 2003 Feb;26(2):545-6.

Diagnosis of diabetes mellitus and intermediate glucose abnormalities in obese patients based on ADA (1997) and WHO (1985) criteria. Richard JL, **Sultan A**, Daures JP. et coll. *Diabet Med*. 2002 Apr;19(4):292-9.

Loisirs : activités sportives (natation, gym, running, zumba, surf), voyages, lecture, spectacles.

Le 12/07/2023 Pr Ariane Sultan

A handwritten signature in black ink. The signature consists of a stylized, cursive initial 'A' followed by the name 'Ariane Sultan' written in a similar cursive style. A vertical line is drawn through the signature, and a small horizontal tick mark is present to the right of the name.