

Curriculum vitae – Clara SANCHEZ

État civil

Nom : Sanchez Clara – célibataire

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Langues : Français, Anglais (TOEIC 880)



Parcours professionnel

Novembre 2023 – maintenant : Post-doctorat, IPMC/Sophia-Antipolis, Université Côte d'Azur. Projet : RANTES : Un régulateur clé de la neuroinflammation obésogène et de l'homéostasie énergétique et glucidique.

Octobre 2019 – Octobre 2023 : Doctorat en Science de la Vie et de la Santé, spécialité en "Interactions Moléculaires et Cellulaires" supervisé par le Dr Carole Rovère, IPMC/Sophia-Antipolis, Université Côte d'Azur. Projet : Impact de la nature des lipides sur le développement de l'obésité et la neuroinflammation associée.

Janvier 2019 – Juin 2019 : Stage de deuxième année de master supervisé par le Dr Carole Rovère, IPMC/Sophia-Antipolis, Université Côte d'Azur. Projet : Impact de la nature des lipides sur la réactivité microgliale et la neuroinflammation associées à l'obésité.

Janvier 2018 – Juin 2018 : Stage de première année de master supervisé par le Dr Nicolas Blondeau, IPMC/Sophia-Antipolis, Université Côte d'Azur. Projet : Identification de nouvelles molécules anti-inflammatoires et neuroprotectrices dans un modèle d'AVC *in vitro*.

Juin 2017 – Juillet 2017 : Stage volontaire de troisième année de licence supervisé par le Dr Dominique Colinet, INRA/Sophia-Antipolis, Université Côte d'Azur. Projet : Effet de l'extinction de la protéine de serpène par ARN interférence sur le succès parasitaire de *L. Boulardi* sur *D. Yakuba* et *D. Melanogaster*.

Diplômes

Oct. 2023 : Doctorat en Sciences de la Vie et de la Santé, Université Côte d'Azur, Nice, France

Sept. 2021 : Spécialisation chirurgie à l'expérimentation animale, CNRS, Marseille, France

Juin 2019 : Master en Génétique, Immunité et Développement Animal, Université Côte d'Azur, Nice, France

Avril 2018 : Expérimentation animale – niveau A, Université Côte d'Azur, Nice, France

Juin 2017 : Licence de Biologie Moléculaire et Génétique, Université Côte d'Azur, Nice, France

Publications

- **2024 - Sanchez C**, Colson C, Gautier N, Noser P, Salvi J, Villet M, Fleuriot L, Peltier C, Schlich P, Brau F, Sharif A, Altintas A, Amri E-Z, Nahon J-L, Blondeau N, Benani A, Barrès R, Rovère C. Dietary fatty acid composition drives neuroinflammation and impaired behavior in obesity. *Brain, Behavior and Immunity*, 2024, doi: 10.1016/j.bbi.2024.01.216. **IF 2023 : 19,227**
- **2023 -** Delhay S, Jarjat M, Boulksib A, **Sanchez C**, Tempio A, Turtoi A, Giorgi M, Lacas-Gervais S, Baj G, Rovère C, Trezza V, Pellegrini M, Maurin T, Lalli E, Bardoni B. Defects in AMPAR trafficking and microglia activation underlie socio-cognitive deficits associated to decreased expression of phosphodiesterase 2a. *Neurobiology of Disease*, 2023, doi: 10.1016/j.nbd.2023.106393. **IF 2023 : 7,046**
- **2023 -** Cansell C, Goepp V, Bain F, Todd N, Monnoye M, Zane F, **Sanchez C**, Pietrancosta N, Rovere C, Denis RG, Luquet S, Rera M. Two phases model of ageing in mice: towards a better identification of age-related and late-life metabolic decline [Registered Reprot Stage 1 Protocol]. *BMC Biology*, 2023, doi: 10.6084/m9.figshare.23963208. **IF 2022 : 7,364**
- **2023 -** Negm A, Stobbe K, Ben Fradj S, **Sanchez C**, Fleuriot L, Debayle D, Deval E, Lingueglia E, Rovere C, Noël J. Acid-Sensing Ion Channel 3 mediates heat pain hypersensitivity associated with diet induced obesity in mice. *Pain*, 2023, doi: 10.1097/j.pain.0000000000003030. **IF 2022 : 7,926**
- **2022 -** Ben Fradj S, Nédélec E, Salvi S, Fouesnard M, Huillet M, Pallot G, Cansell C, **Sanchez C**, Philippe C, Gigot V, Lemoine A, Trompier D, Henry T, Petrilli V, Py BF, Guillou H, Loiseau N, Ellero-Simatos S, Nahon JL, Rovère C, Grober J, Boudry G, Douard V, Benani A. Evidence for Constitutive Microbiota- Dependent Short-Term Control of Food Intake in Mice: Is There a Link with Inflammation, Oxidative Stress, Endotoxemia, and GLP-1? *Antioxid. Redox Signal*, 2022, doi: 10.1089/ars.2021.0095. **IF 2021 : 7,468**
- **2021 -** Cansell C, Stobbe K, **Sanchez C**, Le Thuc O, Mosser CA, Ben Fradj S, Leredde J, Lebeaupin C, Debayle D, Fleuriot L, Brau F, Devaux N, Benani A, Audinat E, Blondeau N, Nahon JL, Rovere C. Dietary fat exacerbates post-prandial hypothalamic inflammation involving GFAP-positive cells and microglia in male mice. *Glia*, 2021, doi: 10.1002/glia.23882. **IF 2021 : 7,468**

Posters et Communications Orales

- **Poster – 45^{ème}** colloque de la SNE, Rouen, France, 27-29 Septembre 2023. Dietary fatty acid composition impacts obesity development, neuroinflammation, mood and cognition. **Sanchez C**, Gautier N, Benani A, Amri Z, Nahon J-L, Blondeau N, Barrès R, Rovère C. **Prix du meilleur poster.**

- **Poster** – Meeting annuel de l’Institut NeuroMod, Antibes, France, 28-29 Juin 2023. Dietary fatty acid composition impacts obesity development, neuroinflammation and associated glial reactivity. **Sanchez C**, Benani A, Amri Z, Nahon J-L, Barrès R, Rovère C.
- **Poster** – Neurofrance 2023, Lyon, France, 24-26 Mai 2023. Due to dietary fatty acids, obesity and neuroinflammation broke up. **Sanchez C**, Nahon J-L, Blondeau N, Rovère C.
- **Communication orale** – 7th joint iBV-IPMC Neurobiology meeting, Valbonne, France, 12 Avril 2023. Effect of lipid nature on glial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**.
- **Communication orale** – Journées scientifique de la Société de Neuroendocrinologie (SNE), Lyon, France, 6-7 Sept. 2022. Effect of $\omega 6/\omega 3$ ratio on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**.
- **Poster** - 10th International Congress of Neuroendocrinology, Glasgow, Ecosse, 7-10 Août 2022. Effect of lipid nature on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**, Benani A, Amri Z, Nahon JL, Rovère C.
- **Communication orale** - 8th Mediterranean Neuroscience Society (MNS) Conference, Dubrovnik, Croatie, 29 Mai – 2 Juin 2022. Effect of $\omega 6/\omega 3$ ratio on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**.
- **Communication orale** - 1^{er} meeting annuel du GDR Microglie et Neuroinflammation, Lyon, France, 30 Nov. – 1^{er} Dec. 2021. Effect of lipid nature on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**.
- **Poster** - 4^{ème} colloque joint SNE-BSN (British Society for Neuroendocrinology) et 44^{ème} congrès de la SNE, Bordeaux, France, 22-24 Sept. 2021. Effect of a sunflower oil enriched diet on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**, Thuret L, Fleuriot L, Peltier C, Schlich P, Amri Z, Benani A, Nahon JL, Blondeau N, Rovère C. **Prix de la meilleure présentation.**
- **Poster** – Neurofrance 2021, Strasbourg, France, 19-21 Mai 2021. Effect of a sunflower oil enriched diet on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. **Sanchez C**, Thuret L, Fleuriot L, Peltier C, Schlich P, Amri Z, Benani A, Nahon JL, Blondeau N, Rovère C.
- **Webinar conference** - 3^{ème} Webinar de recherche de l’Académie 4 de l’Université Côte d’Azur, Nice, France, 18 Mai 2021. Brain, Obesity and Morphometrics. **Sanchez C**.
- **Poster** - 43^{ème} colloque de la SNE, Tours, France, 2-4 Oct. 2019. Effect of lipid nature on the obesity development and associated neuroinflammation. **Sanchez C**, Stobbe K, Colson C, Gautier N, Brau F, Abelanet S, Rekima S, Amri Z, Nahon JL, Rovère C. **Prix de la meilleure présentation flash.**

Formation

Novembre 2023 : Participation au 1^{er} atelier technique « Microglie : du gène à la fonction » du GDR Microglie et neuroinflammation pour être formée à l’étude de la microglie par transcriptomique ainsi que l’étude du métabolisme microgliale *in-vitro*.

Avril 2020 : Bourse de mobilité de la Société de Neuroendocrinologie pour la réalisation d’un stage d’échange d’un mois au centre de recherche Lille Neurosciences & Cognition – UMR1172 (Lille, France) dans l’équipe dirigée par le Dr Vincent Prévot pour l’apprentissage des techniques de RNAscope et iDISCO.

Expertise scientifique

2024 : Co-organisation du 46^{ème} Congrès de la SNE, 1er congrès conjoint France-Canada, Nice, France, 16-19 Sept. 2024.

2023-2027 : Membre du Conseil Scientifique de la SNE représentant les jeunes chercheurs - Responsable de la communication sur les réseaux sociaux

2019 – présent : Membre de la SNE, de la MNS et de la Société française de Neurosciences.

Enseignement

Octobre 2019 – 2022 : Doctorante Chargée de Mission d’Enseignement (DCME) : travaux dirigés de “Génétique formelle” en 1^{ère} année de licence de Sciences de la Vie et de la Santé et travaux pratiques de biologie en 3^{ème} année de licence de Sciences de la Vie et de la Santé (Université Côte d’Azur, Nice).

Science avec et pour la société

2024 : Articles didactiques (The Conversation, SAFE Diet), communiqué de presse (Inserm, CNRS), articles vulgarisés (Medscape, Le quotidien du médecin...), interviews (Le Point, Nice Matin) et podcast radio (RTL).

2019 – présent : Création, organisation et animation d’ateliers scientifiques et d’escape-games pour la Semaine du cerveau, la Fête de la Science, les 80 ans du CNRS, le festival InScience et l’Année de la biologie.

Encadrement d’étudiants

2020 – 2022 : Tutorat de lycéens dans le cadre des “Cordées de la réussite” (Lycée Bristol, Cannes) - 2 mois par an

2019 – présent : Etudiants de BTS Biotechnologies (Lycée Tocqueville, Grasse), BTS Analyses Biologiques (Lycée Jules Ferry, Cannes) et Licence 3 de Sciences de la Vie (Université Côte d’Azur, Nice) - 2 mois par an

2019 – présent : Etudiants de Master 1 et/ou 2 (Université Côte d’Azur, Nice) - 6 mois par an

Références

Dr Carole Rovère, chercheuse INSERM, IPMC, rovere@ipmc.cnrs.fr

Dr Jacques Noël, professeur Université Côte d’Azur, IPMC, noel@ipmc.cnrs.fr

Curriculum vitae – Clara SANCHEZ

Civil state

Name: Sanchez Clara – single

Birth date: 04/09/1995

Address: 21 boulevard Gambetta, 06110 Le Cannet, France

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Mail : sanchez.clara@hotmail.fr

Languages: French, English (TOEIC 880)



Research career

November 2023 – now: Post-doctoral researcher, IPMC/Sophia-Antipolis, University Côte d'Azur. Project: RANTES: A key regulator of obesogenic neuroinflammation and energy and carbohydrate homeostasis.

October 2019 – October 2023: PhD in Life and Health Sciences, specialty in "Molecular and Cellular Interactions" supervised by Dr Carole Rovère, IPMC/Sophia-Antipolis, University Côte d'Azur. Project: Impact of lipid nature on the obesity development and associated neuroinflammation.

January 2019 – June 2019: Second year of master internship supervised by Dr Carole Rovère, IPMC/Sophia-Antipolis, University Côte d'Azur. Project: Impact of lipid nature on microglial reactivity and neuroinflammation associated with obesity.

January 2018 – June 2018: First year of master internship supervised by Dr Nicolas Blondeau, IPMC/Sophia-Antipolis, University Côte d'Azur. Project: Identification of new anti-inflammatory and neuroprotective molecules in an *in vitro* stroke model.

June 2017 – July 2017: Voluntary internship of the third year of license supervised by Dr Dominique Colinet, INRA/Sophia-Antipolis, University Côte d'Azur. Project: Effect of serpin protein silencing by RNA interference on the parasite success of *L. Boulardi* on *D. Yakuba* and *D. Melanogaster*.

Degree

Oct. 2023: PhD in Health and Life Sciences, University Côte d'Azur, Nice, France

Sept. 2021: Surgery specialization in animal experimentation, CNRS, Marseille, France

June 2019: Master in Genetics, Immunity and Animal Development, University Côte d'Azur, Nice, France

April 2018: Animal experimentation - level A, University Côte d'Azur, Nice, France

June 2017: Bachelor's degree in Molecular Biology and Genetics, University Côte d'Azur, Nice, France

Publications

- **2024 - Sanchez C**, Colson C, Gautier N, Noser P, Salvi J, Villet M, Fleuriot L, Peltier C, Schlich P, Brau F, Sharif A, Altintas A, Amri E-Z, Nahon J-L, Blondeau N, Benani A, Barrès R, Rovère C. Dietary fatty acid composition drives neuroinflammation and impaired behavior in obesity.
Brain, Behavior and Immunity, 2024, doi: 10.1016/j.bbi.2024.01.216. IF 2023 : 19,227
- **2023 - Delhay S, Jarjat M, Bouksibat A, Sanchez C, Tempio A, Turtot A, Giorgi M, Lacas-Gervais S, Baj G, Rovère C, Trezza V, Pellegrini M, Maurin T, Lalli E, Bardoni B.** Defects in AMPAR trafficking and microglia activation underlie socio-cognitive deficits associated to decreased expression of phosphodiesterase 2a.
Neurobiology of Disease, 2023, doi : 10.1016/j.nbd.2023.106393. IF 2023 : 7,046
- **2023 - Cansell C, Goepp V, Bain F, Todd N, Monnoye M, Zane F, Sanchez C, Pietrancosta N, Rovere C, Denis RG, Luquet S, Rera M.** Two phases model of ageing in mice: towards a better identification of age-related and late-life metabolic decline [Registered Reprot Stage 1 Protocol].
BMC Biology, 2023, doi : 10.6084/m9.figshare.23963208. IF 2022 : 7,364
- **2023 - Negm A, Stobbe K, Ben Fradj S, Sanchez C, Fleuriot L, Debayle D, Deval E, Lingueglia E, Rovere C, Noël J.** Acid-Sensing Ion Channel 3 mediates heat pain hypersensitivity associated with diet induced obesity in mice.
Pain, 2023, doi : 10.1097/j.pain.0000000000003030. IF 2022 : 7,926
- **2022 - Ben Fradj S, Nédélec E, Salvi S, Fouesnard M, Huillet M, Pallot G, Cansell C, Sanchez C, Philippe C, Gigot V, Lemoine A, Trompier D, Henry T, Petrilli V, Py BF, Guillou H, Loiseau N, Ellero-Simatos S, Nahon JL, Rovère C, Grober J, Boudry G, Douard V, Benani A.** Evidence for Constitutive Microbiota- Dependent Short-Term Control of Food Intake in Mice: Is There a Link with Inflammation, Oxidative Stress, Endotoxemia, and GLP-1?
Antioxid. Redox Signal, 2022, doi : 10.1089/ars.2021.0095. IF 2021 : 7,468
- **2021 - Cansell C, Stobbe K, Sanchez C, Le Thuc O, Mosser CA, Ben Fradj S, Leredde J, Lebeaupin C, Debayle D, Fleuriot L, Brau F, Devaux N, Benani A, Audinat E, Blondeau N, Nahon JL, Rovere C.** Dietary fat exacerbates post-prandial hypothalamic inflammation involving GFAP-positive cells and microglia in male mice.
Glia, 2021, doi : 10.1002/glia.23882. IF 2021 : 7,468

Posters and oral communications

- **Poster presentation** – 45th Congress of the SNE, Rouen, France, September 27-29, 2023. Dietary fatty acid composition impacts obesity development, neuroinflammation, mood and cognition. **Sanchez C**, Gautier N, Benani A, Amri Z, Nahon J-L, Blondeau N, Barrès R, Rovère C. **Best poster prize.**

- **Poster** – Annual meeting of NeuroMod institute, Antibes, France, June 28-29, 2023. Dietary fatty acid composition impacts obesity development, neuroinflammation and associated glial reactivity. [Sanchez C](#), Benani A, Amri Z, Nahon J-L, Barrès R, Rovère C.
- **Poster presentation** – Neurofrance 2023, Lyon, France, May 24-26, 2023. Dietary fatty acid composition impacts obesity development, neuroinflammation and associated glial reactivity. [Sanchez C](#), Gautier N, Benani A, Amri Z, Nahon J-L, Barrès R, Rovère C.
- **Oral communication** – 7th joint iBV-IPMC Neurobiology meeting, Valbonne, France, April 12, 2023. Effect of lipid nature on glial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#).
- **Oral communication** – Société de Neuroendocrinologie (SNE) Scientific Day, Lyon, France, September 6-7, 2022. Effect of $\omega 6/\omega 3$ ratio on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#).
- **Poster** – 10th International Congress of Neuroendocrinology, Glasgow, Scotland, August 7-10, 2022. Effect of lipid nature on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#), Benani A, Amri Z, Nahon JL, Rovère C.
- **Oral communication** – 8th Mediterranean Neuroscience Society Conference, Dubrovnik, Croatia, May 29 – June 2, 2022. Effect of $\omega 6/\omega 3$ ratio on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#).
- **Oral communication** – 1st annual meeting of the GDR Microglie et Neuroinflammation, Lyon, France, November 30 – December 1, 2021. Effect of lipid nature on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#).
- **Poster** – 4th joint meeting SNE-BSN (British Society for Neuroendocrinology) et 44th meeting of SNE, Bordeaux, France, September 22-24, 2021. Effect of a sunflower oil enriched diet on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#), Thuret L, Fleuriot L, Peltier C, Schlich P, Amri Z, Benani A, Nahon JL, Blondeau N, Rovère C. **Best presentation award**.
- **Poster** – Neurofrance 2021, Strasbourg, France, May 19-21, 2021. Effect of a sunflower oil enriched diet on microglial reactivity, neuroinflammation and cognitive disorders associated with obesity. [Sanchez C](#), Thuret L, Fleuriot L, Peltier C, Schlich P, Amri Z, Benani A, Nahon JL, Blondeau N, Rovère C.
- **Webinar conference** – 3rd Academy 4 Research Webinar of University Côte d'Azur, Nice, France, May 18, 2021. Brain, Obesity and Morphometrics. [Sanchez C](#).
- **Poster** – 43rd Congress of SNE, Tours, France, October 2-4, 2019. Effect of lipid nature on the obesity development and associated neuroinflammation. [Sanchez C](#), Stobbe K, Colson C, Gautier N, Brau F, Abelanet S, Rekima S, Amri Z, Nahon JL, Rovère C. **Best flash presentation award**.

Formation

November 2023: Participation in the 1st technical workshop "Microglia: from gene to function" of the GDR Microglia et neuroinflammation to be trained in the study of microglia by transcriptomics as well as the study of microglial metabolism in-vitro.

April 2020: Mobility grant from the Society of Neuroendocrinology for the realization of a one-month exchange internship at the research center Lille Neurosciences & Cognition - UMR1172 (Lille, France) in the team of Dr Vincent Prévot for the learning of RNAscope and iDISCO technics.

Scientific expertise

2024: Co-organizing the 46th Congress of the SNE, 1st France-Canada joint congress, Nice, France, Sept 16-19, 2024.

2023-2027: Member of the Scientific Council representing young researchers - In charge of communication on social networks.

2019 – now: Membership of French Society of Neuroendocrinology, Mediterranean Neuroscience Society and French Society of Neurosciences

Teaching activities

October 2019 – 2022: PhD student in charge of teaching: guided classes of "Formal genetics" for first year of the Life and Health Sciences degree and practical classes of biology in third year of the Life and Health Sciences degree (University Côte d'Azur, Nice).

Science with and for society

2024: Press releases (Inserm, CNRS), general articles (The Conversation, Medscape, Le quotidien du médecin...), interviews (Le Point, Nice Matin) and radio podcasts (RTL).

2019 – now: Creation, organization and animation of scientific workshops and escape-games for the Brain Week, the Science Festival, the 80th anniversary of the CNRS, the InScience festival and the Year of Biology.

Student supervision

2020 - 2022: Tutoring of high school students for "Cordées de la réussite" (Lycée Bristol, Cannes) - 2 months per year

2019 - now: Students of BTS Biotechnology (Lycée Tocqueville, Grasse), BTS Biological Analysis (Lycée Jules Ferry, Cannes) and License 3 of Life Sciences (Université Côte d'Azur, Nice) - 2 months per year

2019 - now: Master 1 and 2 students (Université Côte d'Azur, Nice) - 6 months per year

Computer skills

Pack Office, Canvas X, GraphPad Prism, Imaris, Zotero, ImageJ, Omero

References

Dr Carole Rovère, INSERM researcher, IPMC, rovere@ipmc.cnrs.fr
 Dr Jacques Noël, professor, University Côte d'Azur, IPMC, noel@ipmc.cnrs.fr