

Curriculum vitae Dr. Fabrizio Sanna

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SCIENTIFIC IDs:

- ✓ Orcid ID: <http://orcid.org/0000-0002-9923-4231>
- ✓ Scopus ID: 8984437900
- ✓ Web of Science ID: R-8249-2019
- ✓ Loop ID: 392064

- **Current position:**

Full Professor of Psychobiology and Physiological Psychology (SSD: PSIC-01/B: Neuropsychology and Cognitive Neurosciences).

- **Affiliation:**

Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.

- **Former positions:**

- 29/11/2022 - 07/09/2023. Associate Professor of Psychobiology and Physiological Psychology. Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.
- 29/11/2019 - 28/11/2022. Assistant Professor of Psychobiology and Physiological Psychology. Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.

- 01/10/2015 - 29/11/2019. Senior researcher. Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.
- 15/04/2015 - 30/09/2015. Research Fellow. Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.
- 15/03/2012 - 14/03/2015. Research Fellow. Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.
- 15/01/2010 - 14/01/2012. Research Fellow "Young researchers". Department of Biomedical Sciences, Division of Neuroscience and Clinical pharmacology, University of Cagliari.
- 01/12/2008 - 30/11/2009. Post-Doc researcher. Emil Fischer Centre, Department of Medicinal Chemistry, FAU University Erlangen-Nurnberg, Germany.

- **Education**

- ✓ 21/01/2009. PhD in Neuroscience. University of Cagliari.
- ✓ 20/07/2004. Master's degree in Psychology. University of Cagliari.

- **National scientific habilitations (ASN)**

- ✓ 09/11/2020. *National Habilitation in General Psychology, Psychobiology, Psychometry*
- ✓ 10/04/2018 *National Habilitation in Pharmacology, Clinical pharmacology, Pharmacognosy*

- **Professional and scientific societies**

- ✓ 12/01/2007. Professional register of Psychologists (Sect. A; N° 1477).
- ✓ 27/06/2014. AIP, Italian Association of Psychologists, Division of Experimental Psychology.

✓ 12/12/2019. SINS, Italian Society of Neurosciences.

- **Other:**

✓ A.A. 2020-2021 - present. Member of the Teaching Staff of the School of Specialization in Health Psychology of the University of Cagliari.

✓ A.A. 2020-2021 - present. Member of the Teaching Staff of the PhD Course in Neuroscience, University of Cagliari.

✓ 01/22/2018 - present. Member of the Animal Welfare Staff (OPBA) of the University of Cagliari (D.R. 27/2018 and D.R. 140/2021).

✓ 11/20/2023 to 11/24/2023. Visiting Professor. Masaryk University, Brno, Czech Republic.

✓ Ad hoc evaluator for the Istituto Superiore di Sanità (ISS) of research projects involving the use of animals for experimental purposes (Legislative Decree 4 March 2014, n°26).

✓ Ad hoc reviewer for the Istituto Superiore di Sanità (ISS) of research projects under the "Bandi Ricerca Indipendente ISS 2020-2022".

Teaching

- ***First's degree and Master's degree courses***

- ✓ A.A. 2023 – 2024, present:

Legal and forensic neurosciences, Master degree course: Clinical, health, legal and forensic psychology, Faculty of Humanities, University of Cagliari (22,5 H, 3 CFU).

- ✓ A.A. 2022 – 2023, present:

Anatomical and physiological fundamentals of mental activity, First level degree: Psychological sciences, Faculty of Humanities, University of Cagliari (60 H, 8 CFU).

- ✓ A.A. 2020 – 2021, present:

Physiological Psychology, First level degree: Psychological sciences, Faculty of Humanities, University of Cagliari (60 H, 8 CFU).

- ✓ A.A. 2021 – 2022:

Biopsychology of eating behavior, First level degree: Psychological sciences, Faculty of Biology and Pharmacy, University of Cagliari (16 H, 2 CFU).

- ✓ From A.A. 2015 – 2016 to A.A. 2019 – 2020:

Neuropsychology, Master degree course in Psychology, Faculty of Humanities, University of Cagliari (22,5 H, 3 CFU).

- ✓ A.A. 2013 – 2014:

Biological and Psychological sciences, First level degree: Psychiatric rehabilitation, Faculty of Medicine, University of Cagliari (8 H, 1 CFU).

- ***Doctorate Schools and Specialization Schools:***

- ✓ A.A. 2014 – 2015, present:

“Research Methodology and Data Analysis”. Doctoral School in Neurosciences, Department of Biomedical Sciences, University of Cagliari (10 H, 5 CFU).

- ✓ A.A. 2020 -2021, present:

“Neuropsychobiology of motivated behavior”, Specialization School in Health Psychology, University of Cagliari (teaching: 24 H, 3 CFU; Laboratorial activities: 15-20 H, 1 CFU).

Research

01/10/2020 - *present*. Head of the Laboratory of Neuropsychobiology, Division of Neuroscience and Clinical Pharmacology, Department of Biomedical Sciences, University of Cagliari.

The main lines of research of the Laboratory concern the study of neurobiological correlates of motivated behavior, in particular sexual behavior and food intake. Over the years, the research activity has led to the identification of a complex brain circuit, involving cerebral and limbic areas, in which neurotransmitters such as dopamine, noradrenaline and glutamic acid and neuropeptides such as oxytocin interact in order to regulate the different aspects of motivated behavior, both from a physiological point of view and in relation to different pathological conditions.

This research activity has led to the publication of numerous articles in international scientific journals of medium-high impact and involves several national and international collaborations with high-profile researchers in order to promote an integrated and multi-methodological research approach.

Recent research work focuses on:

- ✓ neuropsychobiological factors underlying motivated behavior (in particular, sexual behavior, food intake and feeding);
- ✓ genetic, neurochemical and molecular determinants underlying individual differences in motivated behavior;
- ✓ neuroplasticity processes involved in the acquisition of sexual experience;
- ✓ relationship between motivated behavior and psychopathology, particularly depression and addictions;
- ✓ development of new therapeutic strategies for the treatment of psychogenic sexual dysfunctions.

- **Projects (PI):**

- ✓ Sept 2023 – present. Project: “Bed Nucleus of the Stria Terminalis and alcohol addiction: potential role of oxytocin as a therapeutic agent for the prevention of relapse. A preclinical study”. Granted by the Italian Ministry MIUR. Program: “PRIN-PNRR 2022” (238.962 €).
- ✓ Oct 2015 – Oct 2019. Project: “Neural plasticity induced by sexual experience: role of dopamine and oxytocin at the level of the mesolimbic system and of the hypothalamus”. Granted by the Italian Ministry MIUR. Program: “SIR 2014” (310.510 €).
- ✓ Mar 2012 – 2015. Project: “Dopamine-oxytocin interaction in the central control of penile erection, sexual motivation and sexual behaviour: role of D2, D3 and D4 dopamine receptors”. Granted by the Region Sardinia (RAS). Program: “Master & Back” (61.605 €).
- ✓ Jan 2010 - 2012. Project: “Dopamine-oxytocin interaction in the central control of penile erection, sexual motivation and sexual behaviour: role of D2, D3 and D4 dopamine receptors”. Granted by the Region Sardinia (RAS). Program: “Young Researchers” (75.000 €).
- ✓ Dec 2008 - 2009. Project: “Identification and characterization of dopamine D4 agonists suitable for the treatment of erectile dysfunction”. Granted by the Region Sardinia (RAS). Program: “Paths of Higher Education” (21.633 €).

- **Projects (participant):**

- ✓ 01-06-2024 - present. Project: “PROFILES - Peripheral and centRal Immune prOFiles revealing the Impact of sex on biomarkers in muLtiplE sclErosis and parkinSon's disease”. MNESY Spoke 7 – NextGenerationEU. Granted by PNRR program. PI: Prof. Annarosa Carta, University of Cagliari.
- ✓ 24-07-2024 - present. Project: “Epigenomica de un modelo genetico traslacional de esquizofrenia en rata: efectos de la experiencia temprana enriquecida o empobrecida”. Proyectos de Generación de Conocimiento, 2021-2023 (BOE 30/12/2023). PI: Prof. Alberto Fernandez Teruel, Universidad Autonoma de Barcelona, Barcelona, Spain.

- ✓ 2021-2023. Project: “Renin – Angiotensin system’s role in SARS-COV2 infection in multiple sclerosis: from bed to the bench-side”. Granted by Fondazione di Sardegna, 2020 Edition. PI: Prof. Eleonora Cocco, University of Cagliari (78.191,24 €).
- ✓ 2019-2022. Project: “Concomitant binge drinking of Alcoholic beverages and Energy drinks (Alcohol Mixed Energy Drinks: AMED) during adolescence: from an abnormal age-restricted behavior to a permanent behavioral impairment? A psychobehavioral, neurochemical, and functional study in rats from adolescence to adulthood”. Granted by Fondazione di Sardegna, 2018 Edition. PI: Prof. Elio Acquas, University of Cagliari (76.134,72 €).
- ✓ 2013-2016. Project: “Ruolo dei meccanismi epigenetici nella resilienza e nella vulnerabilità a stress e depressione”. Granted by Autonomous Region of Sardinia - RAS 2012, L.R. 07/2007. PI: Prof. Osvaldo Giorgi, University of Cagliari (123.420,00 €).

- **Awards:**

- ✓ Awarded for scientific research, Year 2015, Autonomous Region of Sardinia. Prize: 10.000,00 Euro.

- **Editorial activity:**

- Frontiers:

- ✓ Associate Editor: Frontiers in Behavioral Neuroscience.
- ✓ Research Topic Editor: Frontiers in Behavioral Neuroscience, Frontiers in Neuroscience, Frontiers in Psychology and Frontiers in Pharmacology.

- Topic: Sexual Behavior as a Model for the Study of Motivational Drive and Related Behaviors”.

- URL: <https://www.frontiersin.org/research-topics/9471/sexual-behavior-as-a-model-for-the-study-of-motivational-drive-and-related-behaviors>

- Topic: Sensorial and perceptual dysfunctions as predisposing factors for the onset of depression

URL: <https://www.frontiersin.org/research-topics/16582/sensorial-and-perceptual-dysfunctions-as-predisposing-factors-for-the-onset-of-depression>

Topic: Multidimensional Interplay of Early-Life Events, Neuroactive Steroids and Sex in the Development of Psychopathology and Psychiatric Disorders, Vol I

URL: <https://www.frontiersin.org/research-topics/21558/multidimensional-interplay-of-early-life-events-neuroactive-steroids-and-sex-in-the-development-of-p>

Topic: Multidimensional Interplay of Early-Life Events, Neuroactive Steroids and Sex in the Development of Psychopathology and Psychiatric Disorders, Vol II

URL: <https://www.frontiersin.org/research-topics/39714/multidimensional-interplay-of-early-life-events-neuroactive-steroids-and-sex-in-the-development-of-psychopathology-and-psychiatric-disorders-volume-ii>

- ✓ Review Editor: Frontiers in Behavioral Neuroscience and Frontiers in Neuroscience.

MDPI:

- ✓ Associate Editor: Nutrients, Sexes.
- ✓ Guest Editor: Nutrients.

Special Issue: "Brain and Food Motivation, Choice, and Eating Behavior".

URL:

[https://www.mdpi.com/journal/nutrients/special issues/brain food motivation behavior](https://www.mdpi.com/journal/nutrients/special%20issues/brain%20food%20motivation%20behavior)

Special Issue: "Neurobiological Mechanisms Linking Stress, Mood, Obesity and Eating Disorders"

URL:

[https://www.mdpi.com/journal/nutrients/special issues/X4E87VK456](https://www.mdpi.com/journal/nutrients/special%20issues/X4E87VK456)

- ✓ Topic Board Member, Research Topic: "Advances in Cannabinoid Research". URL: [https://www.mdpi.com/topics/Advances Cannabinoid Research](https://www.mdpi.com/topics/Advances%20Cannabinoid%20Research)

Ad hoc reviewer:

- *Hormones and Behavior; Brain Research Bulletin; European Journal of Pharmacology; Neuropharmacology; Toxicology Letters; Frontiers in Neuropharmacology; Frontiers in Psychology; Frontiers in Psychiatry; British Journal of Pharmacology; Journal of Food Biochemistry; Journal of Neuroscience Methods; PLOS ONE; Brain Sciences; International Journal of Molecular Sciences; Pharmacology Biochemistry and Behavior; Molecules; Asian Journal of Andrology; International Journal of Impotence Research; Scientific Reports; Genes Brain and Behavior; Journal of Clinical Medicine; Molecular Biology Reports; Journal of Visual Experiments; Neuroscience Letters; Behavioral Brain Research; International Journal of Developmental Neuroscience; Molecular Psychiatry.*

- **Bibliometric indexes:**

- ✓ Total number of indexed publications: 68
- ✓ Number of citations: 1779
- ✓ H- Index: 25

Source: <https://www.scopus.com/authid/detail.uri?authorId=8984437900>

List of indexed publications (PubMed – SCOPUS – ISI WoS):

*Corresponding author; #First or last co-author (equal contribution)

1. ***SANNA F**, Castelli MP, Mostallino R, Loy F, Masala C (2024). Correlations between Gustatory, Olfactory, Cognitive Function, and Age in Healthy Women. *Nutrients*. Volume 16(11):1731. <https://doi.org/10.3390/nu16111731>.
2. Biggio F, Talani G, Asuni GP, Bassareo V, Boi M, Dazzi L, Pisu MG, Porcu P, Sanna E, **SANNA F**, Serra M, Serra MP, Siddi C, Acquas E, Follesa P, Quartu M (2024). Mixing energy drinks and alcohol during adolescence impairs brain function: A study of rat hippocampal plasticity. *Neuropharmacology*. Volume 254:109993. doi: 10.1016/j.neuropharm.2024.109993.
3. Manca E, Noli B, Corda G, El-Hassani M, Manai A, **SANNA F**, Argiolas A, Melis MR, Manconi B, Contini C, Cocco C (2024). VGF modifications related to nigrostriatal dopaminergic neurodegeneration induced by the pesticide fipronil in adult male rats. *Ann Anat*. Volume 252:152194. doi: 10.1016/j.aanat.2023.152194.
4. Dazzi L, #**SANNA F**, Talani G, Bassareo V, Biggio F, Follesa P, Pisu MG, Porcu P, Puliga R, Quartu M, Serra M, Serra MP, Sanna E, Acquas E (2024). Binge-like administration of alcohol mixed to energy drinks to male adolescent rats severely impacts on mesocortical dopaminergic function in adulthood: A behavioral, neurochemical and electrophysiological study. *Neuropharmacology*. Volume 243:109786. doi: 10.1016/j.neuropharm.2023.109786.
5. Fattore L, Frau R, **SANNA F** (2024). Editorial: Multidimensional interplay of early-life events, neuroactive steroids and sex in the development of psychopathology and psychiatric disorders, volume II. *Front Behav Neurosci*. Volume 18:1360064. doi: 10.3389/fnbeh.2024.1360064.
6. Bratzu J, Ciscato M, Pisanu A, Talani G, Frau R, Porcu P, Diana M, Fumagalli F, Romualdi P, Rullo L, Trezza V, Ciccocioppo R, **SANNA F**, Fattore L (2023). Communal nesting differentially attenuates the impact of pre-weaning social isolation on behavior in male and female rats during adolescence and adulthood. *Front. Behav. Neurosci*. Volume 17 – 2023, doi: 10.3389/fnbeh.2023.1257417
7. Sgheddu C, Cancedda E, Bagheri F, Kalaba P, Muntoni AL, Lubec J, Lubec G, *#**SANNA F**, Pistis M (2023). The atypical dopamine transporter inhibitor CE-158 enhances dopamine neurotransmission in the prefrontal cortex of male rats: a behavioral, electrophysiological and microdialysis study. *Int J Neuropsychopharmacol*. Sep 19 :pyad056. doi: 10.1093/ijnp/pyad056
8. **SANNA F**, Mahmut MK, Loy F, Masala C (2022). Editorial: Sensorial and perceptual dysfunctions as predisposing factors for the onset of depression. *FRONTIERS IN NEUROSCIENCE*, 16:1094648. doi: 10.3389/fnins.2022.1094648
9. Frau R, **SANNA F** and Fattore L (2022). Editorial: Multidimensional interplay of early-life events, neuroactive steroids and sex in the development of psychopathology and psychiatric disorders, volume 1. *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*, 16:1036055. doi: 10.3389/fnbeh.2022.1036055
10. Pisanu A, Lo Russo G, Talani G, Bratzu J, Siddi C, **SANNA F**, Diana M, Porcu P, De Luca MA, Fattore L (2022). Effects of the Phenethylamine 2-Cl-4,5-MDMA and the Synthetic Cathinone 3,4-MDPHP in Adolescent Rats: Focus on Sex Differences. *Biomedicines*, 10(10):2336. doi: 10.3390/biomedicines10102336
11. Melis MR, **SANNA F**, Argiolas A. Dopamine, Erectile Function and Male Sexual Behavior from the Past to the Present: A Review. *Brain Sciences*. 2022; 12(7):826. <https://doi.org/10.3390/brainsci12070826>
12. Kouhnavardi S, Ecevitoglu A, Dragačević V, **SANNA F**, Arias-Sandoval E, Kalaba P, Kirchofer M, Lubec J, Niello M, Holy M, Zehl M, Pillwein M, Wackerlig J, Murau R, Mohrmann A, Beard KR, Sitte HH, Urban E, Sgheddu C, Pistis M, Plasenzotti R, Salamone JD, Langer T, Lubec G, Monje FJ (2022). A Novel and Selective Dopamine Transporter Inhibitor, (S)-MK-26, Promotes Hippocampal Synaptic Plasticity and Restores Effort-Related Motivational Dysfunctions. *Biomolecules*, 12(7):881. <https://doi.org/10.3390/biom12070881>

13. ***SANNA Fa**, Serra MP, Boi M, Bratzu J, Poddighe L, Sanna Fr, Carta A, Corda MG, Giorgi O., Melis MR, Argiolas A, & Quartu M (2022). Neuroplastic changes in c-Fos, Δ FosB, BDNF, trkB, and Arc expression in the hippocampus of male Roman rats: differential effects of sexual activity. *Hippocampus*. 2022 Jul;32(7):529-551. doi: 10.1002/hipo.23448.
14. Masala C, Cavazzana A, **SANNA F**, Cecchini MP, Zanini A, Gasperi F, Menghi L, Endrizzi I, Borgogno M, Drago S, Cantone E, Ciofalo A, Macchi A, Monti G, Parma V, Piochi M, Pinna I, Torri L, Cabrino G, Ottaviano G, Pendolino AL, Pignatelli A, Pighin F, Bochicchio V, Motta G, Fontana G, Pasquariello B, Cavaliere C, Iacono V, Hummel T (2022). Correlation between olfactory function, age, sex, and cognitive reserve index in the Italian population. *Eur Arch Otorhinolaryngol*. 24:1–10. doi: 10.1007/s00405-022-07311-z
15. Meloni M, Figorilli M, Carta M, Tamburrino L, Cannas A, **SANNA F**, Defazio G, Puligheddu M (2022). Preliminary finding of a randomized, double-blind, placebo-controlled, crossover study to evaluate the safety and efficacy of 5-hydroxytryptophan on REM sleep behavior disorder in Parkinson's disease. *SLEEP AND BREATHING*, 26(3):1023-1031, ISSN: 1522-1709, doi: 10.1007/s11325-021-02417-w
16. **SANNA F**, Bratzu J, Angioni L, Sorighe MP, Cocco C, Argiolas A, Melis MR (2021). Oxytocin-conjugated saporin injected into the substantia nigra of male rats alters the activity of the nigrostriatal dopaminergic system: A behavioral and neurochemical study. *BRAIN RESEARCH*, Vol 1773, 147705. ISSN 0006-8993, doi: 10.1016/j.brainres.2021.147705
17. Costa G, Caputi FF, Serra M, Simola N, Rullo L, Stamatakos S, **SANNA F**, Germain M, Martinoli MG, Candeletti S, Morelli M and Romualdi P (2021). Activation of Antioxidant and Proteolytic Pathways in the Nigrostriatal Dopaminergic System After 3,4-Methylenedioxymethamphetamine Administration: Sex-Related Differences. *FRONTIERS IN PHARMACOLOGY*, 12:713486. ISSN: 1663-9812, doi: 10.3389/fphar.2021.713486
18. **SANNA F**, De Luca Maria Antonietta (2021). The potential role of oxytocin in addiction: What is the target process? *CURRENT OPINION IN PHARMACOLOGY*, vol. 58, p. 8-20, ISSN: 1471-4892, doi: 10.1016/j.coph.2021.03.002
19. **SANNA F**, Loy F, Piras R, Moat A, Masala C (2021). Age-Related Cognitive Decline and the Olfactory Identification Deficit Are Associated to Increased Level of Depression. *FRONTIERS IN NEUROSCIENCE* 15:599593. doi: 10.3389/fnins.2021.599593. eCollection 2021
20. ***SANNA F**, Porcu P, Fattore L (2020). Editorial: Sexual Behavior as a Model for the Study of Motivational Drive and Related Behaviors. *FRONTIERS IN BEHAVIORAL NEUROSCIENCE* 14:121. doi: 10.3389/fnbeh.2020.00121. eCollection 2020
21. Bharatiya R, Chagraoui A, De Deurwaerdere S, Argiolas A, Melis MR, ***#SANNA F**, De Deurwaerdere P (2020). Chronic Administration of Fipronil Heterogeneously Alters the Neurochemistry of Monoaminergic Systems in the Rat Brain. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, 21(16):E5711. doi: 10.3390/ijms21165711
22. Meloni M, Puligheddu M, **SANNA F**, Cannas A, Farris R, Tronci E, Figorilli M, Defazio G, Carta M (2020). Efficacy and safety of 5-Hydroxytryptophan on levodopa-induced motor complications in Parkinson's disease: A preliminary finding. *JOURNAL OF THE NEUROLOGICAL SCIENCES*, vol. 415, p. 1-7, ISSN: 0022-510X, doi: 10.1016/j.jns.2020.116869
23. ***SANNA F**, Bratzu J, Serra MP, Leo D, Quartu M, Boi M, Espinoza S, Gainetdinov RR, Melis MR, Argiolas A (2020). Altered sexual behavior in dopamine transporter (DAT) knockout male rats: a behavioral, neurochemical and intracerebral microdialysis study. *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*, 14:58, ISSN: 1662-5153, doi: 10.3389/fnbeh.2020.00058
24. Bharatiya R, Bratzu J, Lobina C, Corda G, Cocco C, De Deurwaerdere P, Argiolas A, Melis MR, **SANNA F** (2020). The pesticide fipronil injected into the substantia nigra of male rats decreases striatal dopamine content: A neurochemical, immunohistochemical and behavioral study. *BEHAVIOURAL BRAIN RESEARCH*, vol. 384, 112562, ISSN: 0166-4328, doi: 10.1016/j.bbr.2020.112562
25. Bratzu J, Bharatiya R, Manca E, Cocco C, Argiolas A, Melis MR, **SANNA F** (2019). Oxytocin induces penile erection and yawning when injected into the bed nucleus of the stria terminalis: A

- microdialysis and immunohistochemical study. *BEHAVIOURAL BRAIN RESEARCH*, vol. 375; 112147, ISSN: 0166-4328, doi: 10.1016/j.bbr.2019.112147
26. Melis MR, **SANNA F**, Argiolas A (2019). Rats selectively bred for showing divergent behavioral traits in response to stress or novelty or spontaneous yawning with a divergent frequency show similar changes in sexual behavior: the role of dopamine. *REVIEWS IN THE NEUROSCIENCES*, vol. 30(4), p. 427-454, ISSN: 2191-0200, doi: 10.1515/revneuro-2018-0058
 27. ***SANNA F**, Poddighe L, Serra MP, Boi M, Bratzu J, Sanna F, Corda MG, Giorgi O, Melis MR, Argiolas A, Quartu M (2019). c-Fos, Δ FosB, BDNF, trkB and Arc expression in the limbic system of male Roman High and Low Avoidance rats that show differences in sexual behaviour: effect of sexual activity. *NEUROSCIENCE*, vol. 396, p. 1-23, ISSN: 0306-4522, doi: 10.1016/j.neuroscience.2018.11.002
 28. Serra MP, Poddighe L, Boi M, Sanna Fr, Piludu MA, **SANNA Fa**, Corda MG, Giorgi O, Quartu M (2018). Effect of Acute Stress on the Expression of BDNF, trkB, and PSA-NCAM in the Hippocampus of the Roman Rats: A Genetic Model of Vulnerability/Resistance to Stress-Induced Depression. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*, vol. 19(12): 3745, ISSN: 1422-0067, doi: 10.3390/ijms19123745
 29. Struik D, **SANNA F**, Fattore L (2018). The Modulating Role of Sex and Anabolic-Androgenic Steroid Hormones in Cannabinoid Sensitivity. *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*, vol. 12: 249, ISSN: 1662-5153, doi: 10.3389/fnbeh.2018.00249
 30. Corda MG, Piludu MA, Sanna Fr, Piras G, Boi M, **SANNA Fa**, Fernández Teruel A, Giorgi O (2018). The Roman high- and low-avoidance rats differ in the sensitivity to shock-induced suppression of drinking and to the anxiogenic effect of pentyletetratozole. *PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR*, vol. 167, p. 29-35, ISSN: 0091-3057, doi: 10.1016/j.pbb.2018.02.004
 31. Melas PA, Qvist JS, Deidda M, Upreti C, Wei YB, **SANNA F**, Fratta W, Scherma M, Fadda P, Kandel DB, Kandel ER (2018). Cannabinoid Modulation of Eukaryotic Initiation Factors (eIF2 α and eIF2B1) and Behavioral Cross-Sensitization to Cocaine in Adolescent Rats. *CELL REPORTS*, vol. 22(11), p. 2909-2923, ISSN: 2211-1247, doi: 10.1016/j.celrep.2018.02.065
 32. Contini A, **SANNA F**, Maccioni P, Colombo G, Argiolas A (2018). Comparison between male and female rats in a model of self-administration of a chocolate-flavored beverage: Behavioral and neurochemical studies. *BEHAVIOURAL BRAIN RESEARCH*, vol. 344; p. 28-41, ISSN: 0166-4328, doi: 10.1016/j.bbr.2018.02.004
 33. Leo D, Sukhanov I, Zoratto F, Illiano P, Caffino L, **SANNA F**, Messa G, Emanuele M, Esposito A, Dorofeikova M, Budygin EA, Mus L, Efimova EE, Niello M, Espinoza S, Sotnikova TD, Hoener MC, Laviola G, Fumagalli F, Adriani W, Gainetdinov RR (2018). Pronounced hyperactivity, cognitive dysfunctions and BDNF dysregulation in dopamine transporter knockout rats. *THE JOURNAL OF NEUROSCIENCE*, vol. 38(8); p. 1959-1972, ISSN: 0270-6474, doi: 10.1523/JNEUROSCI.1931-17.2018
 34. ***SANNA F**, Bratzu J, Argiolas A, Melis MR (2017). Oxytocin induces penile erection and yawning when injected into the bed nucleus of the stria terminalis: Involvement of glutamic acid, dopamine, and nitric oxide. *HORMONES AND BEHAVIOR*, vol. 96C; p. 52-61, ISSN: 0018-506X, doi: 10.1016/j.yhbeh.2017.09.004
 35. Agabio R, **SANNA F**, Lobina C, Monduzzi M, Nairi V, Cugia F, Mameli S, Pisanu GM, Gessa GL, Melis MR (2017). Is 2-Hydroxypropyl- β -cyclodextrin a Suitable Carrier for Central Administration of Δ 9 - Tetrahydrocannabinol? Preclinical Evidence. *DRUG DEVELOPMENT RESEARCH*, vol. 78(8); p. 411-419, ISSN: 1098-2299, doi: 10.1002/ddr.21413
 36. ***SANNA F**, Bratzu J, Piludu MA., Corda MG., Melis MR., Giorgi O, Argiolas A (2017). Dopamine, Noradrenaline and Differences in Sexual Behavior between Roman High and Low Avoidance Male Rats: A Microdialysis Study in the Medial Prefrontal Cortex. *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*, vol. 11, ISSN: 1662-5153, doi: 10.3389/fnbeh.2017.00108
 37. Noli B, **SANNA F**, Brancia C, D'Amato F, Manconi B, Vincenzoni F, Messana I, Melis MR., Argiolas A, Ferri GL, Cocco C (2017). Profiles of VGF Peptides in the Rat Brain and Their Modulations after Phencyclidine Treatment. *FRONTIERS IN CELLULAR NEUROSCIENCE*, vol. 11, ISSN: 1662-5102, doi:

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