

# MATTEO CERRI - CURRICULUM VITAE

## Matteo Cerri MD, Ph.D

Associate professor of physiology

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Born in Parma (Italy) on the 30/07/1973

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## Education

- 1) 1998 - M.D., University of Bologna. M.D. Dissertation: “The relationship between the thermoregulatory balance in major orthopedic surgery and the incidence of hypoxia after surgery”
- 2) 2002 - Ph.D. in Neurophysiology, University of Bologna. Ph.D. Dissertation: “Phenomenology of Sleep Homeostasis”.
- 3) 2002-2003. General medical officer in the Italian Army

## Positions

- 4) 2003-2005. Postdoc fellow in Shaun Morrison’s Lab at the Oregon Health and Science University (OSHU), Portland (OR), USA
- 5) 2006 - 2020. Assistant Professor of Physiology at the Department of Biomedical and NeuroMotor Sciences, University of Bologna.
- 6) 2014 - present. Member of the Topical Team Hibernation of the European Space Agency (ESA)
- 7) 2015 - present. Associated to the National Institute for Nuclear Physics (INFN)
- 8) 2016 - present Board Member at the Italian Society for Neuroethics
- 9) 2020 - present Affiliated to the Italian Institute of Technology (IIT)
- 10) 2020 - present Associate Professor of Physiology at the Department of Biomedical and NeuroMotor Sciences, University of Bologna.
- 11) 2020 - present State qualification for the Full professorship of physiology
- 12) 2020 - present Member of the Road Map table for Integrated Physiology at the Italian Space Agency (ASI)

## Research Summary

- 1) **Unravelling the neural regulation of torpor.** Torpor and hibernation are hypometabolic states characterized by an active inhibition of energy expenditure initiated and coordinated by the brain. The neural substrates of such regulation are currently unknown as well as the molecular signals that activate such substrates. We have currently identified part of the brain circuit controlling the entering into torpor and will soon begin to study the molecular signal activating such circuit. The experiments are conducted in laboratory mice because of their facultative heterothermy and the genetic toolbox that they can provide. This project is conducted within a larger research project of the topical team hibernation of ESA:
- 2) **Brain adaptations during hibernation and synthetic torpor.** The brain during hibernation shows some very peculiar adaptations that are also observed in synthetic torpor. For instance, neural connectivity is reduced and pathological markers expressed. All these changes are reversed upon arousal. We are currently working on analyzing the EEG of these states and plan to use cortex-to-cortex evoked potential to provide a description of cortical connectivity during torpor. Since synapses were shown to retract during torpor, cortical connectivity should progressively reduce during torpor, possibly providing a model to test the Information Integration Theory.
- 3) **Investigating the mechanism that enhances radiation resistance in hibernators.** Hibernators were shown to be much more resilient to radiation damage. The mechanism of such resistance and whether protection is provided versus photons or also versus protons and heavy ions (the main components of cosmic rays and used in cancer radiation treatment as well) are the aims of these projects. This project is in collaboration with TIFPA (Trento Institute for Fundamentals Physics Applications) and it's funded by both the Italian National Institute for Nuclear Physics and the Minister of Research.

## Research funding

|      | Sanofi | UNIBO | Carisbo | MIUR  | Regione ER | UNIBO | Carisbo | Ministero della Salute | MIUR   | INFN  | ESA    | INFN  | ASI    |
|------|--------|-------|---------|-------|------------|-------|---------|------------------------|--------|-------|--------|-------|--------|
| 2007 | 11000  | 37500 | 25200   |       |            |       |         |                        |        |       |        |       |        |
| 2008 |        |       |         |       |            |       |         |                        |        |       |        |       |        |
| 2009 |        |       |         | 27857 |            |       |         |                        |        |       |        |       |        |
| 2010 |        |       |         |       | 25000      | 45894 |         |                        |        |       |        |       |        |
| 2011 |        |       |         |       |            |       | 28500   |                        |        |       |        |       |        |
| 2012 |        |       |         |       |            | 22947 |         |                        |        |       |        |       |        |
| 2013 |        |       |         |       |            |       |         |                        |        |       |        |       |        |
| 2014 |        |       |         |       |            |       |         |                        |        |       |        |       |        |
| 2015 |        |       |         |       |            |       |         | 151881                 |        |       |        |       |        |
| 2016 |        |       |         |       |            |       |         |                        |        |       |        |       |        |
| 2017 |        |       |         |       |            |       |         |                        |        | 40000 |        |       |        |
| 2018 |        |       |         |       |            |       |         |                        |        |       |        |       |        |
| 2019 |        |       |         |       |            |       |         |                        | 100000 |       |        |       |        |
| 2020 |        |       |         |       |            |       |         |                        |        |       | 150000 |       |        |
| 2021 |        |       |         |       |            |       | 10000   |                        |        |       |        | 40000 |        |
| 2022 |        |       |         |       |            |       |         |                        |        |       |        |       | 400000 |

In gray = as PI

*HYPE (Hypothermia-induced radioprotection in the retina)*

Supporting Institution: *Italian Space Agency (ASI)*

Year: *to be decided: experiment will be on board of the ISS*

Amount € 400.000.

Role: PI.

*Radioprotezione indotta dall'ipotermia*

Supporting Institution: *Carisbo foundation*

Year: 2021-2022

Amount € 10.000.

Role: PI.

*HYPORAD (Hypothermia for Radioprotection)*

Supporting Institution: *Istituto Nazionale di Fisica Nucleare (INFN)*

Year: 2020 - 2022

Amount € 40.000.

Role: Project Member.

*Hibernation and Torpor*

Supporting Institution: *European Space Agency (ESA)*

Year: 2019 - 2021

Amount €450.000. To my research unit 150.000

Role: Work package leader.

*Hibernation for Space Travel (HASTE)*

Supporting Institution: *Italian Minister of Research- progetto premiale*

Year: 2017-2020 (3 years)

Amount: *Total project: € 1.800.000. To my research unit € 100.000*

My role: Work Package leader

*HIBRAD (Hibernation-induced Radioresistance*

Supporting Institution: *Istituto Nazionale di Fisica Nucleare (INFN)*

Year: 2017 - 201+

Amount € 40.000.

Role: Project Member.

*Induction of a suspended animation state by inhibition of neurons of the central nervous pathway for thermoregulatory cold defense in pig.*

Supporting Institution: *Italian Minister of Health*

Year: 2014-2017 (3 years)

Amount: *Total project: € 151.881*

My role: Co-PI

*Role of the Hypothalamus and the Brainstem in Autonomic and Cardiovascular regulation*

Supporting Institution: *University of Bologna*

Year: 2012 (1 year)

Amount: € 22.947

My role: PI

*The role of hypothalamic neurogenesis in the development of obesity, sleep disturbances and cardiovascular co-morbidity*

Supporting Institution: *Fondazione Carisbo*

Year: 2011 – 2012 (2 years)

Amount: *Total project: € 57000; To my research unit: € 28500*

My role: Project Member

*Characterization of autonomic function during REM sleep induced by pharmacological manipulation of brainstem neurons.*

Supporting Institution: *University of Bologna*

Year: 2010-2011 (2 years)

Amount: € 45.894

My role: PI

*Effects induced by physical exercise and socializing activity on depression in the elderly: a multicentric, controlled, randomized study.*

Supporting Institution: *Regione Emilia-Romagna*

Year: 2010– 2011 (2 years)

Amount: Total project: € 430.000; To my research unit: €25000

My role: Project Member

*Role of hypocretinergic system in thermoregulatory cardiovascular control during wake and sleep*

Supporting Institution: MIUR (Ministero dell'Istruzione, Università e Ricerca (Italian Ministry for Education, University and Research)) (PRIN 2008FY7K9S\_002)

Year: 2009 – 2010 (2 years)

Amount: Total project: € 55714; To my research unit: € 27857

My role: Project Member

*Searching for early specific markers of obesity-related cardiovascular diseases.*

Supporting Institution: Fondazione Carisbo

Year: 2008– 2009 (2 years)

Amount: Total project: € 50400; To my research unit: € 25200

My role: Project Member

*A study of the relationship between the autonomic, metabolic and endocrine regulation and the sleep phenotype in the diet-induced obesity.*

Supporting Institution: University of Bologna

Year: 2007– 2008 (2 years)

Amount : Total project: € 75000; To my research unit: € 37500

My role: Project Member

*Obesity and brown adipose tissue sympathetic nerve activity in sleep*

Supporting Institution: ESRS/Sanofi-Aventis

Year: 2007 – 2008 (2 years)

Amount: € 11.000

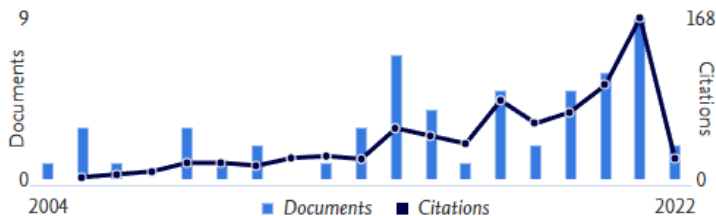
My role: PI

## Publications

### Generality

papers: 56      citation: 765      H-index: 16

Document & citation trends



### Accepted for publication

- Ambler M, Hitrec T, Wilson A, **Cerri M**, Pickering A Neurons in the dorsomedial hypothalamus promote, prolong, and deepen torpor in the mouse J.Neurosci 2022 *IF* 6.167

### 2022

- Sgarbi G, Hitrec T, Amici R, Baracca A, Di Cristoforo A, Liuzzi F, Luppi M, Solaini G, Squarcio F, Zamboni G, **Cerri M**. Mitochondrial respiration in rats during hypothermia resulting from central drug administration. Journal of Comparative Physiology B. DOI : 10.1007/s00360-021-01421-6 *IF* 2.517
- Ravaioli M, Germinario G, **Cerri M**, Prosperi E, Fallani G, Vasuri F, Serenari M, Odaldi F, Maroni L, Siniscalchi A, Cescon M, Renzulli M. Venous outflow in partial heterotopic liver transplantation with spleen replacement: Evidence of no chronic venous hypertension. Am J Transplant. 2022 Feb;22(2):664-665. *IF* 8.086

### 2021

- Morelli R, Clissa L, Amici R, **Cerri M**, Hitrec T, Luppi M, Rinaldi L, Squarcio F, Zoccoli A Automating cell counting in fluorescent microscopy through deep learning with c-ResUnet. Sci Rep. 2021 Nov 25;11(1):22920. *IF* 4.380
- Ravaioli M, Germinario G, **Cerri M**, Prosperi E, Fallani G, Vasuri F, Serenari M, Odaldi F, Maroni L, Siniscalchi A, Cescon M, Renzulli M. Venous outflow in partial heterotopic liver transplantation with spleen replacement: Evidence of no chronic venous hypertension. Am J Transplant. 2021 Aug 13. doi: 10.1111/ajt.16800. *IF* 8.086
- **Cerri M**, Hitrec T, Luppi M, Amici R. Be cool to be far: Exploiting hibernation for space exploration. Neurosci Biobehav Rev. 2021 Sep;128:218-232. *IF* 8.989

- **Cerri M**, Amici R. Thermoregulation and Sleep: Functional Interaction and Central Nervous Control. *Compr Physiol*. 2021 Apr 1;11(2):1591-1604. [IF 9.090](#)
- Hitrec T, Squarcio F, **Cerri M**, Martelli D, Occhinegro A, Piscitiello E, Tupone D, Amici R, Luppi M. Reversible Tau Phosphorylation Induced by Synthetic Torpor in the Spinal Cord of the Rat. *Front Neuroanat*. 2021 Feb 2;15:592288. [IF 3.856](#)
- Chiocchetti R, Hitrec T, Giancola F, Sadeghinezhad J, Squarcio F, Galiazzo G, Piscitiello E, De Silva M, **Cerri M**, Amici R, Luppi M. Phosphorylated Tau protein in the myenteric plexus of the ileum and colon of normothermic rats and during synthetic torpor. *Cell Tissue Res*. 2021 May;384(2):287-299. [IF 5.249](#)
- **Cerri M**, Negrini, M., Zoccoli, A. Study of enhanced radio-resistance induced by hibernation *Nuovo Cimento della Societa Italiana di Fisica C*, 2021, 44(4-5), 136 [IF 0.310](#)
- Puspitasari A, **Cerri M**, Takahashi A, Yoshida Y, Hanamura K, Tinganelli W. Hibernation as a Tool for Radiation Protection in Space Exploration. *Life (Basel)*. 2021 Jan 14;11(1):54. [IF 3.817](#)
- Ravaioli M, Fallani G, **Cerri M**, Prosperi E, Serra C, D'Errico A, Serenari M, Germinario G, Renzulli M, Contedini F, Odaldi F, Maroni L, Siniscalchi A, Cescon M, Azoulay D. Two surgical techniques are better than one: RAVAS and RAPID are answers for the same issue. *Am J Transplant*. 2021 Feb;21(2):905-906. [IF 8.086](#)

## 2020

- Campaner R, **Cerri M** (2020) Manipulative evidence and medical interventions: some qualifications. *Hist Philos Life Sci* 42:15. [IF 0.873](#)
- Lo Martire V, Berteotti C, Bastianini S, Alvente S, Valli A, **Cerri M**, Amici R, Silvani A, Swoap SJ, Zoccoli G (2020) The physiological signature of daily torpor is not orexin dependent. *J Comp Physiol B* 190:493-507. [IF 2.042](#)
- Pace M, Colombi I, Falappa M, Freschi A, Bandarabadi M, Armirotti A, Encarnacion BM, Adamantidis AR, Amici R, **Cerri M**, Chiappalone M, Tucci V (2020) Loss of Snord116 alters cortical neuronal activity in mice: a preclinical investigation of Prader-Willi syndrome. *Hum Mol Genet* 29:2051-2064. [IF 5.100](#)
- Pace M, Falappa M, Freschi A, Balzani E, Berteotti C, Lo Martire V, Kaveh F, Hovig E, Zoccoli G, Amici R, **Cerri M**, Urbanucci A, Tucci V (2020) Loss of Snord116 impacts lateral hypothalamus, sleep, and food-related behaviors. *JCI Insight* 5. [IF 6.205](#)
- Ravaioli M, Fallani G, **Cerri M**, Prosperi E, Serra C, D'Errico A, Serenari M, Germinario G, Renzulli M, Contedini F, Odaldi F, Maroni L, Siniscalchi A, Cescon M, Azoulay D (2020) Two surgical techniques are better than one: RAVAS and RAPID are answers for the same issue. *Am J Transplant*. [IF 7.338](#)
- Zucchelli M, Bastianini S, Ventrella D, Barone F, Elmi A, Romagnoli N, Hitrec T, Berteotti C, Di Cristoforo A, Luppi M, Amici R, Bacci ML, **Cerri M\*** (2020) Autonomic effects induced by pharmacological activation and inhibition of Raphe Pallidus neurons in anaesthetized adult pigs. *Clin Exp Pharmacol Physiol* 47:281-285. [IF 2.456](#)

## 2019

- Hitrec T, Luppi M, Bastianini S, Squarcio F, Berteotti C, Lo Martire V, Martelli D, Occhinegro A, Tupone D, Zoccoli G, Amici R, **Cerri M.** (2019) Neural control of fasting-induced torpor in mice. *Sci Rep.* 2019 Oct 29;9(1):15462 **IF 4.0**
- Zucchelli M, Bastianini S, Ventrella D, Barone F, Elmi A, Romagnoli N, Hitrec T, Berteotti C, Di Cristoforo A, Luppi M, Amici R, Bacci ML, **Cerri M.** (2019) Autonomic effects induced by pharmacological activation and inhibition of Raphe Pallidus neurons in anaesthetized adult pigs. *Clin Exp Pharmacol Physiol.* doi: 10.1111/1440-1681.13194 **IF 2.3**
- Luppi M, Hitrec T, Di Cristoforo A, Squarcio F, Stanzani A, Occhinegro A, Chiavetta P, Tupone D, Zamboni G, Amici R, **Cerri M.** (2019) Phosphorylation and Dephosphorylation of Tau Protein During Synthetic Torpor. *Front Neuroanat.* 13:57 **IF 2.9**
- Luppi M, **Cerri M,** Di Cristoforo A, Hitrec T, Denticio D, Del Vecchio F, Martelli D, Perez E, Tupone D, Zamboni G, Amici R. (2019) c-Fos expression in the limbic thalamus following thermoregulatory and wake-sleep changes in the rat. *Exp Brain Res.* 237(6):1397-1407 **IF 1.8**
- Allocca G, Ma S, Martelli D, **Cerri M,** Del Vecchio F, Bastianini S, Zoccoli G, Amici R, Morairty SR, Aulsebrook AE, Blackburn S, Lesku JA, Rattenborg NC, Vyssotski AL, Wams E, Porcheret K, Wulff K, Foster R, Chan JKM, Nicholas CL, Freestone DR, Johnston LA, Gundlach AL. (2019) Validation of 'Somnivore', a Machine Learning Algorithm for Automated Scoring and Analysis of Polysomnography Data. *Front Neurosci.* 13:207 **IF 3.6**
- Tinganelli W, Hitrec T, Romani F, Simoniello P, Squarcio F, Stanzani A, Piscitiello E, Marchesano V, Luppi M, Sioli M, Helm A, Compagnone G, Morganti AG, Amici R, Negrini M, Zoccoli A, Durante M, **Cerri M.** (2019) Hibernation and Radioprotection: Gene Expression in the Liver and Testicle of Rats Irradiated under Synthetic Torpor. *Int J Mol Sci.* 20(2). pii: E352 **IF 4.1**

## 2018

- Silvani A, **Cerri M,** Zoccoli G, Swoap SJ. (2018) Is Adenosine Action Common Ground for NREM Sleep, Torpor, and Other Hypometabolic States? *Physiology (Bethesda).* 33(3):182-196 **IF 6.3**
- Galassi FM, Bender N, Habicht ME, Armocida E, Toscano F, Menassa DA, **Cerri M.** (2018) St. Catherine of Siena (1347-1380 AD): one of the earliest historic cases of altered gustatory perception in anorexia mirabilis. *Neurol Sci.* 39(5):939-940. **IF 2.4**

## 2017



- **Cerri M** (2017), Consciousness in hibernation and synthetic torpor, *Journal Of Integrative Neuroscience*, 16, pp. 19 - 26 **IF 1.1**
- **Cerri M**, Luppi M, Tupone D, Zamboni G, Amici R. (2017) REM Sleep and Endothermy: Potential Sites and Mechanism of a Reciprocal Interference. *Front Physiol.*8:624. **IF 4.1**
- **Cerri M** (2017) The Central Control of Energy Expenditure: Exploiting Torpor for Medical Applications. *Annual Review of Physiology* 79: 167-186 **IF 17.9**
- Luppi M, Al-Jahmany AA, Del Vecchio F, **Cerri M**, Di Cristoforo A, Hitrec T, Martelli D, Perez E, Zamboni G, Amici R (2017) Wake-sleep and cardiovascular regulatory changes in rats made obese by a high-fat diet. *Behavioural Brain Research* 320:347-355. **IF 2.7**
- Sisa C, Turrone S, Amici R, Brigidi P, Candela M, **Cerri M** (2017) Potential role of the gut microbiota in synthetic torpor and therapeutic hypothermia. *World Journal of Gastroenterology* 23:406-413 **IF 3.4**.

## 2016

- **Cerri M**, Tinganelli W, Negrini M, Helm A, Scifoni E, Tommasino F, Sioli M, Zoccoli A, Durante M (2016) Hibernation for space travel: Impact on radioprotection. *Life Sciences in Space Research* 11:1-9. **IF 2.0**

## 2015

- Belvederi Murri M, Amore M, Menchetti M, Toni G, Neviani F, **Cerri M**, Rocchi MBL, Zocchi D, Bagnoli L, Tam E, Buffa A, Ferrara S, Neri M, Alexopoulos GS, Zanutidou S (2015) Physical exercise for late-life major depression. *British Journal of Psychiatry* 207:235-242. **IF 7.2**
- **Cerri M** (2015) More wake, less stroke. *Sleep* 38:1671-1672. **IF 4.5**
- Di Cristoforo A, **Cerri M**, Del Vecchio F, Hitrec T, Luppi M, Perez E, Zamboni G, Amici R (2015) Wake-sleep, thermoregulatory, and autonomic effects of cholinergic activation of the lateral hypothalamus in the rat: A pilot study. *Archives Italiennes de Biologie* 153. **IF 0.9**

## 2014

- **Cerri M**, Del Vecchio F, Mastrotto M, Luppi M, Martelli D, Perez E, Tupone D, Zamboni G, Amici R (2014) Enhanced slow-wave EEG activity and thermoregulatory impairment following the inhibition of the lateral hypothalamus in the rat. *PLoS One* ;9(11):e112849 **IF 2.7**

- Del Vecchio F, Nalivaiko E, **Cerri M**, Luppi M, Amici R (2014) Provocative motion causes fall in brain temperature and affects sleep in rats. *Experimental Brain Research* 232:2591-2599. **IF 1.8**
- Luppi M, **Cerri M**, Martelli D, Tupone D, Del Vecchio F, Di Cristoforo A, Perez E, Zamboni G, Amici R (2014) Waking and sleeping in the rat made obese through a high-fat hypercaloric diet. *Behavioural Brain Research* 258:145-152. **IF 2.7**
- Martelli D, Luppi M, **Cerri M**, Tupone D, Mastrotto M, Perez E, Zamboni G, Amici R (2014) The direct cooling of the preoptic-hypothalamic area elicits the release of thyroid stimulating hormone during wakefulness but not during REM sleep. *PLoS ONE* 9. **IF 2.7**
- Ngampramuan S, **Cerri M**, del Vecchio F, Corrigan JJ, Kamphee A, Dragic AS, Rudd JA, Romanovsky AA, Nalivaiko E (2014) Thermoregulatory correlates of nausea in rats and musk shrews. *Oncotarget* 5:1565-1575. **IF 5.1**

## 2013

- **Cerri M**, Mastrotto M, Tupone D, Martelli D, Luppi M, Perez E, Zamboni G, Amici R (2013) The inhibition of neurons in the central nervous pathways for thermoregulatory cold defense induces a suspended animation state in the rat. *Journal of Neuroscience* 33:2984-2993. **IF 6.0**

## 2012

- Martelli D, Luppi M, **Cerri M**, Tupone D, Perez E, Zamboni G, Amici R (2012) Waking and Sleeping following Water Deprivation in the Rat. *PLoS ONE* 7. **IF 2.7**
- Pelletier A, Delanaud S, D'Arcima P, Thuroczy G, de Seze R, **Cerri M**, Bach V, Libert JP, Loos N (2012) Effects of chronic exposure to radiofrequency electromagnetic fields on energy balance in developing rats. *Environmental Science and Pollution Research* 20:2735-2746 **IF 2.9**

## 2010

- **Cerri M**, Zamboni G, Tupone D, Dentico D, Luppi M, Martelli D, Perez E, Amici R (2010) Cutaneous vasodilation elicited by disinhibition of the caudal portion of the rostral ventromedial medulla of the free-behaving rat. *Neuroscience* 165:984-995. **IF 3.2**
- Luppi M, Martelli D, Amici R, Baracchi F, **Cerri M**, Dentico D, Perez E, Zamboni G (2010) Hypothalamic osmoregulation is maintained across the wake-sleep cycle in the rat: Osmoregulation and sleep. *Journal of Sleep Research* 19:394-399. **IF 3.4**

## 2009

- Dentico D, Amici R, Baracchi F, **Cerri M**, Del Sindaco E, Luppi M, Martelli D, Perez E, Zamboni G (2009) C-Fos expression in preoptic nuclei as a marker of sleep rebound in the rat. *European Journal of Neuroscience* 30:651-661. **IF 2.7**

## 2008

- Amici R, Bastianini S, Berteotti C, **Cerri M**, Del Vecchio F, Lo Martire V, Luppi M, Perez E, Silvani A, Zamboni G, Zoccoli G (2008) Sleep and bodily functions: The physiological interplay between body homeostasis and sleep homeostasis. *Archives Italiennes de Biologie* 152:66-78. **IF 0.9**
- Amici R, **Cerri M**, Ocampo-García A, Baracchi F, Dentico D, Jones CA, Luppi M, Perez E, Parmeggiani PL, Zamboni G (2008) Cold exposure and sleep in the rat: REM sleep homeostasis and body size. *Sleep* 31:708-715. **IF 4.5**
- Baracchi F, Zamboni G, **Cerri M**, Sindaco ED, Dentico D, Jones CA, Luppi M, Perez E, Amici R (2008) Cold exposure impairs dark-pulse capacity to induce REM sleep in the albino rat. *Journal of Sleep Research* 17:166-179. **IF 3.4**
- Jones CA, Perez E, Amici R, Luppi M, Baracchi F, **Cerri M**, Dentico D, Zamboni G (2008) Lithium affects REM sleep occurrence, autonomic activity and brain second messengers in the rat. *Behavioural Brain Research* 187:254-261. **IF 2.7**

## 2006

- **Cerri M**, Morrison SF (2006) Corticotropin releasing factor increases in brown adipose tissue thermogenesis and heart rate through dorsomedial hypothalamus and medullary raphe pallidus. *Neuroscience* 140:711-721. **IF 3.2**

## 2005

- Capitani P, **Cerri M**, Amici R, Baracchi F, Jones CA, Luppi M, Perez E, Parmeggiani PL, Zamboni G (2005) Changes in EEG activity and hypothalamic temperature as indices for non-REM sleep to REM sleep transitions. *Neuroscience Letters* 383:182-187. **IF 2.1**
- **Cerri M**, Morrison SF (2005) Activation of lateral hypothalamic neurons stimulates brown adipose tissue thermogenesis. *Neuroscience* 135:627-638. **IF 3.2**
- **Cerri M**, Ocampo-Garcés A, Amici R, Baracchi F, Capitani P, Jones CA, Luppi M, Perez E, Parmeggiani PL, Zamboni G (2005) Cold exposure and sleep in the rat: Effects on sleep architecture and the electroencephalogram. *Sleep* 28:694-705. **IF 4.5**

## 2004

- Zamboni G, Ann Jones C, Domeniconi R, Amici R, Perez E, Luppi M, **Cerri M**, Luigi Parmeggiani P (2004) Specific changes in cerebral second messenger accumulation

underline REM sleep inhibition induced by the exposure to low ambient temperature.  
Brain Research 1022:62-70. **IF 2.9**

## **b) Book chapters**

G. Petit, D. Koller, L. Summerer, G. Heldmaier, V.V. Vyazovskiy, **M. Cerri**, R.H. Henning  
Hibernation and torpor, prospects for human spaceflight?  
In Handbook of Life Support Systems for Spacecraft and Extraterrestrial Habitats pp.1-15.  
2018

### **Cerri M**

The Ethical Ghosts in the Brain: Testing the Relationship between  
Consciousness and Responsibility in the Special Case of REM Sleep Behavior Disorder  
In: LAVAZZA A ed Frontiers in Neuroethics (pp 117 - 133). Cambridge Scholar Press 2016

Berteotti C, **Cerri M**, Luppi M, Silvani A, Amici R  
An Overview of Sleep Physiology and Sleep Regulation  
Drug Treatment of Sleep Disorders, 3-23 2015

Amici R, **Cerri M**, Parmeggiani PL  
Overview of Physiological Processes During Sleep  
In KUSHIDA C.A. The Encyclopedia of Sleep, Vol. 1. (pp. 385 - 389).  
WALTHAM, MA: Academic Press 2013

## **Invited talk (2016 - 2019)**

- University of Groningen - Invited by Prof. Peter Meerlo
- Konrad Lorenz Institute - Vienna - Invited by Thomas Ruf
- NASA Ames Research Center - Mountain View (CA) - Invited by dr. Yuri Griko
- AFSOR (US Air Force Office of Scientific Research) - Dayton(OH)- Invited by dr. Sofi Bin-Salamon
- University of Hamburg - Invited by Prof. Annika Hervig
- University of Bristol - Invited by Prof. Tony Pickering
- University of Madison - Invited by Prof. Hannah Carey
- University of Madison -Invited by Prof. Giulio Tononi
- GSI - Darmstadt -Invited by Prof. Marco Durante
- Scuola Superiore Sant'Anna - Pisa - Invited by a prof. Debora Angeloni
- Università di Trento - Invited by Prof. Giorgio Vallortigara
- Università di Verona - Invited by Prof. Giuseppe Faggian
- INFN sez. di Bologna -Invited by Prof. Antonio Zoccoli
- Università di Siena - Invited by Prof. Simone Rossi
- Istituto Superiore di Sanità - Roma -Invited by Prof. Giovanni Allewa
- NICO - Torino - Invited by Prof. Alessandro Vercelli

-

### **Scientific societies membership**

- the American Physiological Society (APS)
- the International Hibernation Society (HIS)
- the Italian Society of Physiology (SIF)
- the Italian Society for Neuroethics (SINe),

-

### **International Grant revision for**

- The Natural Sciences and Engineering Research Council (Canada)
- The Poland Science Minister of Science (Poland)

### **Member of the scientific board of**

- Temperature Journal
- Journal of Translational and Clinical Research
- Frontiers in Physiology
- Frontiers in Neuroscience.

### **Award**

2006 Sanofi - Aventis Young Investigator Award for the European Sleep Research Society