

Proshanta Roy, PhD

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EDUCATION AND TRAINING

[01/10/2024 – Current] **Post Doctoral Researcher**

Sapienza Università di Roma , Department of Molecular Medicine

City: Rome | **Country:** Italy | **Field(s) of study:** Angiocardioneurology and Translational Medicine

Investigating and targeting neuroimmune mechanisms activated by hypertension to hamper maladaptive cardiac remodeling to pressure overload and the evolution toward heart failure

[01/11/2019 – 07/09/2023] **PhD Graduation (Life and health science)**

University of Camerino, Department of public health and experimental medicine

City: Camerino | **Country:** Italy | **Field(s) of study:** Neuroscience | **Final grade:** Excellent (Optimal) | **Thesis:** Cerebrovascular disease related to hypertension: effects of antioxidant and cholinergic precursor molecules

[29/06/2022 – 22/12/2022] **Visiting Researcher**

Medical University Vienna , Center for Brain Research

City: Vienna | **Country:** Austria |

Investigate the function of $\alpha 7$ nicotinic acetylcholine receptors (nAChR) response to a variety of nAChR agonists and antagonists using the Fura2 calcium imaging.

[07/01/2019 – 06/04/2019] **Postgraduate Trainee as Biological researcher**

University of Nottingham, School of Life Science

City: Nottingham | **Country:** United Kingdom | | **Level in EQF:** EQF level 7

Investigation the effects of neurotoxins on ion channel of the nervous system Using an electrophysiological technique for the purpose of identifying lead chemicals for medical use.

[12/10/2015 – 18/10/2018] **Master's in Biological Science**

University of Camerino

City: Camerino | **Country:** Italy | **Field(s) of study:** Molecular diagnostic and cellular biotechnology | **Final grade:** 102/110, Grade: B [Very good] | **Thesis:** Ion channels expression in the brain of obese rats: effect of tart cherries supplementation.

[01/02/2010 – 18/08/2014] **Bachelor of Pharmacy**

Manarat International University

City: Dhaka | **Country:** Bangladesh | **Field(s) of study:** Pharmacy | **Final grade:** CGP A : 3.60/4.0

In-plant Training :GlaxoSmithKline (GSK)

A-grade registered Pharmacist of Bangladesh Pharmacy Council

[2009] **Higher Secondary Certificate (H.S.C)**

Dhaka Imperial college

City: Dhaka | **Country:** Bangladesh | | **Final grade:** GPA : 4.70/5.0

English, Bangla, Physics, Chemistry,Biology,Math

[2007] **Secondary School Certificate**

Bangladesh Bank High school

City: Dhaka | **Country:** Bangladesh | | **Final grade:** GPA : 4.31/5.0

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Italian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

JOB-RELATED SKILLS

Job-related skills

- Animal Handling
- Behavioral test
- Open Field, Passive Avoidance.
- Protein extraction, Western Blot, Oxidiblot Analysis, Chemi-doc.
- Cryostat and Microtome for Tissue Sectioning.
- Free-floating staining, Immunofluorescence, Immunohistochemistry.
- Confocal microscopy, Fluorescence, and Light microscopic analysis.
- Akoya phenoimager fusion
- RNA extraction, cDNA synthesis, and qRT-PCR.
- BV 2 microglial Cell culture.
- General Idea about Electrophysiological technique (Patch Clamp and Voltage-gated Ion Channel)
- Calcium Imaging.
- Image Analysis with Qupath, FIJI ImageJ, NIS-Elements Viewer
- Statistical Analysis Graphpad Prism
- R statistics and R Studio
- Adobe Photoshop

[06/10/2016 – 31/05/2017] **Supporting tutor (Teaching assistant)**

University of Camerino

Curriculum: Biosciences and Biotechnology

Curriculum: Biological Science [Masters]

[18/01/2018 – 06/03/2018] **Didactic tutor (Lab assistant Tutor)**

University of Camerino

Curriculum: Biotechnology and Biology [Bachelor]

COMMUNICATION AND INTERPERSONAL SKILLS

ResearchGate

<https://www.researchgate.net/profile/Proshanta-Roy>

ORCHID (0000-0001-6482-6117)

<https://orcid.org/0000-0001-6482-6117>

PUBLICATIONS

- [2024] [Protective effects of the \(+\)-thioctic acid treatment: possible anti-inflammatory activity on heart of hypertensive rats.](#)
- Reference:** .
- Proshanta Roy**, Daniele Tomassoni, Ilenia Martinelli, Vincenzo Bellitto, Giulio Nittari, Francesco Amenta, Seyed Khosrow Tayebati*,2024, Protective effects of the (+)-thioctic acid treatment: possible anti-inflammatory activity on heart of hypertensive rats, BMC Complementary Medicine and Therapies,24(1):281.
- Journal Name:** BMC Complementary Medicine and Therapies
- [2024] [Dysfunction of the Brown Adipose Organ in HFD-Obese Rats and Effect of Tart Cherry Supplementation](#)
- Vincenzo Bellitto, Maria Gabriella Gabrielli , Ilenia Martinelli , **Proshanta Roy** , Giulio Nittari ,Paolo Cocci , Francesco Alessandro Palermo , Francesco Amenta , Maria Vittoria Micioni Di Bonaventura ,Carlo Cifani , Daniele Tomassoni and Seyed Khosrow Tayebati.Dysfunction of the Brown Adipose Organ in HFD-Obese Rats and Effect of Tart Cherry Supplementation. Antioxidants 2024 March19.
- Journal Name:** Antioxidants
- [2023] [Rodent Models of Huntington's Disease: An Overview](#)
- Giulio Nittari, **Proshanta Roy**, Ilenia Martinelli, Vincenzo Bellitto, Daniele Tomassoni, EneaTraini, Seyed Khosrow Tayebati1, Francesco Amenta. Rodent models of Huntington's disease: an overview. (Submitted Biomedicine, 2023).
- [2022] [Batten disease through different in vivo and in vitro models: A review](#)
- Giulio Nittari, Daniele Tomassoni, **Proshanta Roy**, Ilenia Martinelli, Seyed Khosrow Tayebati, Francesco Amenta. Batten disease through different in vivo and in vitro models: A review. *Journal of Neuroscience Research*,2022, Nov 26.
- [2022] [Effects of choline containing phospholipids on the neurovascular unit.](#)
- Proshanta Roy**, Daniele Tomassoni, Giulio Nittari, Enea Traini, Francesco Amenta.Effects of choline-containing phospholipids on the neurovascular unit: A review.Front. Cell. Neurosci. - Cellular Neurophysiology,2022 August 27, Sep 23;16:988759.
- [2022] [Anti-Inflammatory and Antioxidant Properties of Tart Cherry Consumption in the Heart of Obese Rats](#)
- Ilenia Martinelli, Daniele Tomassoni, Vincenzo Bellitto, **Proshanta Roy**, Maria Vittoria Micioni Di Bonaventura, Francesco Amenta, Consuelo Amantini, Carlo Cifani 1, and Seyed Khosrow TayebatiAnti-Inflammatory and Antioxidant Properties of Tart Cherry Consumption in the Heart of Obese Rats.Biology 2022, April 23.
- [2022] [Brain and Retinal Organoids for Disease Modeling: The Importance of In Vitro Blood-Brain and Retinal Barriers Studies](#)
- Ilenia Martinelli, Seyed Khosrow Tayebati, Daniele Tomassoni, Giulio Nittari, **Proshanta Roy**, Francesco Amenta Brain and Retinal Organoids for Disease Modeling: The Importance of In Vitro Blood-Brain and Retinal Barriers Studies. Cells 2022, March 25.

- [2022] [**Obesity-Related Brain Cholinergic System Impairment in High-Fat-Diet-Fed Rats**](#)
- Ilenia Martinelli , Seyed Khosrow Tayebati , **Proshanta Roy** , Maria Vittoria Micioni Di Bonaventura , Michele Moruzzi , Carlo Cifani , Francesco Amenta , Daniele Tomassoni .Obesity-Related Brain Cholinergic System Impairment in High-Fat-Diet-Fed Rats.Nutrients 2022, March 15
- [2021] [**Ion channels alteration in the forebrain of high fat diet-fed rats.**](#)
- Proshanta Roy**, Ilenia Martinelli, Michele Moruzzi, Maria Vittoria Micioni Di Bonaventura , Carlo Cifani, Consuelo Amantini , Federica Maggi , Seyed Khosrow Tayebati , Francesco Amenta , Daniele Tomassoni .Ion channel alteration in the forebrain of high fat diet-fed rats. European Journal of Histochemistry 2021. November 23.
- [2021] [**Altered Brain Cholinergic and Synaptic Markers in Obese Zucker Rats**](#)
- Ilenia Martinelli, Daniele Tomassoni, **Proshanta Roy**, Francesco Amenta, Seyed Khosrow Tayebati.Altered Brain Cholinergic and Synaptic Markers in Obese Zucker Rats.Cells 2021, September 24.
- [2021] [**Lethal and behavioural effects of a green insecticide against an invasive polyphagous fruit fly pest and its safety to mammals**](#)
- Camilla Ceccarelli; Valeria Zeni; Roberto Rizzo; Gabriella Lo Verde; Milko Sinacori; Maria C. Boukouvala; Nickolas G. Kavalieratos; Massimo Ubaldi; Daniele Tomassoni; Federica Benvenuti; **Proshanta Roy**; Riccardo Petrelli; Loredana Cappellacci; Eleonora Spinozzi; Filippo Maggi; Angelo Canale.Lethal and behavioral effects of a green insecticide against an invasive polyphagous fruit fly pest and its safety to mammals. Chemosphere 2021, August 31.
- [2021] [**Antioxidant Properties of Alpha-Lipoic \(Thioctic\) Acid Treatment on Renal and Heart Parenchyma in a Rat Model of Hypertension**](#)
- Ilenia Martinelli, Daniele Tomassoni, **Proshanta Roy**, Lorenzo Di Cesare Mannelli, Francesco Amenta, Seyed Khosrow Tayebati,*Antioxidant properties of alpha-lipoic (thioctic) acid treatment on renal and heart parenchyma in a rat model of hypertension. Antioxidants 2021 June 23.
- [2021] [**Natural Antioxidant Application on Fat Accumulation: Preclinical Evidence**](#)
- Proshanta Roy**, Daniele Tomassoni, Enea Traini, Ilenia Martinelli, Francesco Amenta, Seyed Khosrow Tayebati*.Natural Antioxidants Application on Fat Accumulation: Preclinical Evidence. Antioxidant 2021, May 27.
- [2021] [**Tart Cherry Juice and Seeds Affect Pro-Inflammatory Markers in Visceral Adipose Tissue of High-Fat Diet Obese Rats**](#)
- Michele Moruzzi, Nora Klöeting, Matthias Blüher, Ilenia Martinelli, Seyed Khosrow Tayebati, Maria Gabriella Gabrielli, **Proshanta Roy**, Maria Vittoria Micioni Di Bonaventura, Carlo Cifani, Giulio Lupidi, Francesco Amenta, Daniele Tomassoni.Tart Cherry Juice and seeds affect Pro-Inflammatory Markers in Visceral Adipose Tissue of High-fat Diet Obese Rats. Molecules 2021 February 25.
- [2020] [**Cardiovascular Changes Related to Metabolic Syndrome: Evidence in Obese Zucker Rats**](#)

Ilenia Martinelli, Daniele Tomassoni Michele Moruzzi, **Proshanta Roy**, Carlo Cifani, Francesco Amenta, and Seyed Khosrow Tayebati,* Cardiovascular changes related to metabolic syndrome: evidence in obese Zucker rats. International journal of molecular sciences 2020 March 16.

CONFERENCES AND SEMINARS

- [11/09/2023 – 13/09/2023] **76 Congress of the Italian Society of Anatomy and Histology** Modena, Italy
- Neuroinflammation on hippocampus of hypertensive rats: possible protective activity of antioxidant and cholinergic cognitive enhancing compounds.**
- V. Bellitto, **P. Roy**, I Martinelli, S.K. Tayebati, F Amenta, D Tomassoni.
- [11/09/2023 – 13/09/2023] **76 Congress of the Italian Society of Anatomy and Histology.** Modena, Italy
- Choline alfoscerate and thioctic acid effects neuroinflammation in lipopolysaccharide stimulated BV2 microglial cells.**
- I. Martinelli, S. K.Tayebati , V. Bellitto, **P. Roy**, F. Amenta, D. Tomassoni.
- [14/06/2023 – 16/06/2023] **XXXIX Congress of the Italian Society of Histochemistry** Vulcano Island, Italy
- Morphological study of colonic mucosa in mice with dextran sulfate sodium-induced colitis: the impact of probiotic supplementation.**
- D. Tomassoni, M.G. Gabrielli, V. Bellitto, I. Martinelli, **P. Roy**, C. Salvesi, S. Silvi, A.M. Tambella, C. Miceli.
- European Journal of Histochemistry, 2023, 67, suppl2, P2.10.
- [14/06/2023 – 16/06/2023] **XXXIX Congress of the Italian Society of Histochemistry** Vulcano Island, Italy
- Protective role of tart cherry against whitening of brown adipose tissue of obese rats.**
- V. Bellitto, S. K. Tayebati, I. Martinelli, **P. Roy**, G. Nittari, P. Cocci, F. A. Palermo, F.Amenta, D. Tomassoni, M.G. Gabrielli.
- European Journal of Histochemistry, 2023, 67, suppl2, P2.9.
- [25/11/2022 – 26/11/2022] **32nd National Conference of the Italian Group for the Study of Neuromorphology**
- “Gruppo Italiano per lo Studio della Neuromorfologia” G.I.S.N.**
- Naples, ITALY
- Neuroplasticity of enteric nervous system in animal model of obesity.**
- V. Bellitto², I. Martinelli ², **P. Roy**¹, D. Tomassoni ¹, M.G. Gabrielli¹, F. Amenta², S.K. Tayebati².
- ¹School of Biosciences and Veterinary Medicine, University of Camerino;
- ²School of Medicinal and Health Products Sciences, University of Camerino, Italy.
- European journal of histochemistry a journal of functional cytology, ISSN 1121-760X volume 66/ supplement 2, 2022 <https://doi.org/10.4081/ejh.2022.3619>
- [14/09/2022 – 16/09/2022] **75th Meeting of the Italian Society of Anatomy and Histology** Padova, ITALY
- Cardiovascular changes in dietary-induced obese rats: anti-inflammatory and antioxidant effect of tart cherry supplementation.**
- Daniele Tomassoni¹, Ilenia Martinelli², Vincenzo Bellitto², **Proshanta Roy**², Maria Vittoria Micioni Di Bonaventura², Seyed Khosrow Tayebati², Consuelo Amantini¹, Carlo Cifani² and Francesco Amenta²

1 School of Biosciences and Veterinary Medicine, University of Camerino, 62032 Camerino, Italy

2 School of Medicinal and Health Products Sciences, University of Camerino, 62032 Camerino, Italy

[14/09/2022 – 16/09/2022] **75th Meeting of the Italian Society of Anatomy and Histology,** Padova, ITALY

Choline alphoscerate and thioctic acid activity on brain injury in spontaneously hypertensive rats.

Seyed Khosrow Tayebati¹, **Proshanta Roy**², Ilenia Martinelli¹, Daniele Tomassoni², Vincenzo Bellitto¹, Francesco Amenta¹.

¹Clinical Research Centre, School of Medicinal and Health Products Sciences, University of Camerino, 62032 Camerino, Italy;

²School of Biosciences and Veterinary Medicine, University of Camerino, 62032 Camerino, Italy.

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[24/04/2022 – 27/04/2022] **6th International Symposium in Enteric Nervous System (ENS 2022)** Ferrara

Obesity and enteric nervous system modulation: evidence from preclinical animal models.

Martinelli I¹, Tayebati SK¹, Bellitto V¹, Gabrielli MG², **Roy P**², Micioni Di Bonaventura MV¹, Cifani C¹, Amenta F¹, Tomassoni D².

¹ School of Pharmacy, University of Camerino, Camerino, Italy;

²School of Biosciences and Veterinary Medicine, University of Camerino, Camerino, Italy.

[26/11/2021 – 27/11/2021] **XXXI Convegno Nazionale del Gruppo Italiano per lo Studio della Neuromorfologia (GISN)**
Milan, ITALY

Effects of choline-alphoscerate and thioctic acid on the brain of hypertensive rats.

Proshanta Roy¹, Ilenia Martinelli², Daniele Tomassoni¹, Enea Traini², Seyed Khosrow Tayebati², Francesco Amenta²

¹*School of Biosciences and Veterinary Medicine, University of Camerino, Camerino, Italy.*

²*School of Medicinal and Health Products Sciences, University of Camerino, Camerino, Italy.*

[24/09/2021 – 25/09/2021] **74° Congress of the "Società Italiana di Anatomia e Istologia" (SIAI)** Bologna, ITALY

Heart alterations in spontaneously hypertensive rats: immunochemical and immunohistochemical assessment of the activity of dextrorotatory form of thioctic acid.

Proshanta Roy, Daniele Tomassoni, Ilenia Martinelli, Francesco Amenta, Seyed Khosrow Tayebati.

[24/09/2021 – 25/09/2021] **74° Congress of the "Società Italiana di Anatomia e Istologia" (SIAI)** Bologna

Do choline alphoscerate and thioctic acid prevent the cerebrovascular alterations in spontaneously hypertensive rats?

Ilenia Martinelli, **Proshanta Roy**, Seyed Khosrow Tayebati, Enea Traini, Francesco Amenta, Daniele Tomassoni.

[24/09/2021 – 24/09/2021]

74° Congress of the "Società Italiana di Anatomia e Istologia" (SIAI)

Bologna, ITALY

Effects of tart cherry supplementation on brown adipose tissue of high-fat diet obese rats. M.Gabriella Gabrielli, Vincenzo Bellitto, **Proshanta Roy**, Ilenia Martinelli, Paolo Cocci, Francesco Alessandro Palermo, Maria Vittoria Micioni di Bonaventura, Carlo Cifani, Seyed Khosrow Tayebati, Francesco Amenta, Daniele Tomassoni.

[25/11/2020 – 26/11/2020]

30th National Conference of the Italian Group for the Study of Neuromorphology (GISN).

Torino, ITALY

Ion channel expression in the brain areas of high-fat diet-fed rats.

Proshanta Roy¹, Ilenia Martinelli 2,3, Michele Moruzzi 2, Maria Vittoria Micioni Di Bonaventura 2, carlo Cifani 2, Consuelo Amantini¹, Seyed Khosrow Tayebati 2, Francesco Amenta 2, Daniele Tomassoni 1.

¹*School of Biosciences and Veterinary Medicine, University of Camerino, Camerino, Italy.*

²*School of Medicinal and Health Products Sciences, University of Camerino, Camerino, Italy.*

³*Institute of Metabolic and Cardiovascular Diseases (I2MC), Institut National de la Santé et de la Recherche Médicale (INSERM), Université de Toulouse, 31432 Toulouse, France INSERM Toulouse, France*

European Journal of Histochemistry. volume 64/

[10/07/2021]

5th Conference organized by the University Thematic Platforms on "Food and Nutrition" and "Human and Animal Health"

Camerino, ITALY

Protective effects of r (+)-thioctic acid treatment on the heart of spontaneously hypertensive rats.

Proshanta Roy¹, Seyed Khosrow Tayebati², Ilenia Martinelli², Francesco Amenta², Daniele Tomassoni¹.

¹School of Biosciences and Veterinary Medicine, University of Camerino, 62032 Camerino, Italy;

²School of Pharmacy; University of Camerino, 62032 Camerino, Italy.

[01/03/2021]

Congresso nazionale Società Italiana di farmacologia 9 ITALY

Effects of tart cherry seeds and juice on brain alterations in high-fat diet-induced obesity.

Emanuela Micioni Di Bonaventura¹, Ilenia Martinelli¹, Michele Moruzzi¹, Luca Botticelli¹, **Proshanta Roy²**, Maria Vittoria Micioni Di Bonaventura¹, Giulio Lupidi¹, Seyed Khosrow Tayebati¹, Francesco Amenta¹, Daniele Tomassoni², Carlo Cifani¹

¹*School of Pharmacy, Pharmacology Unit, 1University of Camerino, Via Madonna delle Carceri 9, 62032 Camerino, Italy.*

²*School of Biosciences and Veterinary Medicine, University of Camerino, via Gentile III da Varano, 62032 Camerino, Italy.*

29th National Conference of the Italian Group for the Study of Neuromorphology (GISN).

Milan, ITALY

Tart cherries intake in high-fat diet-fed rats: a strategy to prevent cerebrovascular alteration.

Ilenia Martinelli¹, Maria Vittoria Micioni Di Bonaventura¹, Michele Moruzzi², Consuelo Amantini³, **Proshanta Roy**³, Carlo Polidori¹, Giulio Lupidi¹, Carlo Cifani¹, Seyed Khosrow Tayebati¹, Francesco Amenta¹, Daniele Tomassoni³

¹ School of Medicinal and Health Products Science, University of Camerino, Camerino, Italy; ² Department of Medicine, University of Leipzig, Leipzig, Germany; ³ School of Biosciences and Veterinary Medicine University of Camerino, Camerino, Italy.

POSTER

[25/11/2022] **1st PhD WORKSHOP LIFE and HEALTH SCIENCES. November 25th.**

Cerebrovascular disease in spontaneously hypertensive rats: effect of treatment with a choline containing phospholipids and antioxidant compound.

Proshanta Roy¹, Daniele Tomassoni¹, Seyed Khosrow Tayebati², Ilenia Martinelli², Vincenzo Bellitto², Francesco Amenta².

¹School of Biosciences and Veterinary Medicine and

²School of Medicinal and Health Products Sciences, University of Camerino, Italy.

[25/11/2022 – 26/11/2022]

**32nd National Conference of the Italian Group for the Study of Neuromorphology
"Gruppo Italiano per lo Studio della Neuromorfologia"**

Acetylcholine precursors attenuate neuroinflammation in LPS-stimulated BV2 cells.

I.Martinelli ¹, S.K.Tayebati ¹, V. Bellitto ¹, **P. Roy**², F. Amenta ¹,D.Tomassoni ².

¹School of Pharmacy, University of Camerino;

²School of Biosciences and Veterinary Medicine, University of Camerino, Italy.

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The undersigned declares to be aware that this curriculum vitae will be published on the University's institutional website, in the "Transparent Administration" section, in the manner and for the duration established by Legislative Decree no. 33/2013, art. 15.

Roma,22/09/2025

