

## CURRICULUM VITAE

### PERSONAL INFORMATION

Name

**ARIANNA ROMANI**

### WORK EXPERIENCE

1<sup>st</sup> August 2017-31<sup>st</sup> July 2018

#### **Post-doctoral fellow**

Department of Life science and Biotechnologies- University of Ferrara (Italy)

Project title: "*From Eustress to Distress, Rett syndrome as oxidative model*".

SSD: BIO/09

Supervisor: Dr Franco Cervellati

1<sup>st</sup> April, 2017- 31<sup>st</sup> July

#### **Fellow**

Department of Biomedical and Specialist Surgical Sciences

University of Ferrara

Project title: "*Validation of a possible marker for the diagnosis and prognosis of Alzheimer's disease*"

Supervisors: Dr Carlo Cervellati

1<sup>st</sup> May, 2016-31<sup>st</sup> March,2017

#### **Post-doctoral fellow**

Department of Life science and Biotechnologies- University of Ferrara (Italy)

Project title: "*Common oxidative processes in aging diseases such as postmenopausal osteoporosis and neurodegenerative disorders*".

SSD: BIO/09

Supervisor: Prof Giuseppe Valacchi.

2015

#### **Teaching course: medical chemistry and propedeutic biochemistry**

University of Ferrara, SSD BIO/10, 32 hours

2014 - 2016

#### **Academic tutor for medical chemistry and biochemistry**

University of Ferrara. (2012/2013: 30 hours; 2013/2014: 30 hours; 2015/2016: 30 hours)

### EDUCATIONAL TRAINING

11th April-5<sup>th</sup> August 2016

#### **Visiting Scholar**

Department of Cytokinetics

Institute of biophysics AS CR, v.v.i. (Brno)- Czech Republic

Supervisor: Dr Karel Soucek

2013-2015 **PhD in Biochemistry, Molecular biology and Biotechnologies**  
Department of Biomedical and Specialist Surgical Sciences  
University of Ferrara  
Supervisors: Prof. Tiziana Bellini; Dr Carlo Cervellati

21<sup>st</sup> February – 31<sup>st</sup> August  
2015 **PhD-Visiting scholar**  
University of Southern California (USC) – Los Angeles, CA, USA.  
Supervisor: Prof. Roberta Diaz Brinton

18<sup>th</sup> July 2012 **Master's degree in Bimolecular and Cellular Science**  
University of Ferrara.  
*Grade: 110/110 with merit*  
Thesis: *"Role of oxidative stress in chemical hypoxia-induced"*.  
Supervisor: Dott. C. Cervellati, Dott. F. Cervellato, Dott. E. Cremonini

13th October 2010 **Bachelor's degree in Biology**  
University of Ferrara  
*Grade: 110/110 with merit*  
Thesis: *"Lysosomal enzyme assay in Anderson-Fabry disease: comparison of methods"*.  
Supervisors: Prof. T. Bellini, Dott. M.C. Manfrinato

#### PERSONAL SKILLS

MOTHER TONGUE **ITALIAN**  
OTHER LANGUAGE **ENGLISH**, Cambridge English B1 certificate (November 2015)

| Listening | Reading | Speaking | Grammar Use | Writing |
|-----------|---------|----------|-------------|---------|
| B1        | B2      | B2       | B1          | B1      |

#### ORGANIZATIONAL/ MANAGERIAL SKILLS

My PhD project stimulated my organization skill as well my independency in carry on my own project. During that period and post-doc, I have been also involved in different projects with national and international members, which have improved my team ability skills. Furthermore, the teaching activities had enhanced my communication skills.

#### COMPUTER SKILLS

Good knowledge of: Windows e Macintosh systems, Microsoft Office programs, Photoshop and scientific programs: Graph Pad, SPSS, IPA-Qiagen, Flow-Jo.

#### RESEARCH SKILLS

- Spectrofluorometric and spectrophotometric techniques
- Enzymatic and Immunoenzymatic assay (ELISA)
- Chromatographic techniques
- Electrophoretic techniques (SDS-PAGE; Zymography; Western Blot)
- Cells culture techniques
- Immunohistochemistry (luminescence, fluorescence)
- Flow cytometry (FACs)
- Real Time RT-PCR (RT-qPCR)
- Steam Cells

#### AWARDS

-2016: Italian Society of Biochemistry and Molecular Biology fellowship for abroad research of young investigator (Institute of Biophysics, Brno, CZ)

-2016: Best poster award ISGE 2016 (International society of Gynecological endocrinology, Florence 2nd-5th March 2016)

-2016: Under 34-fellowship ISGE 2016 (International society of Gynecological endocrinology, Florence 2nd-5th March 2016)

-2015: Travel Fellowship AAIC 2015 (Alzheimer Association International Congress 2015-Washington, 18th-2th3 July, 2015)

- 2015: 5x1000 University of Ferrara Fellowship for Young Investigator (USC-Los Angeles)

- 2014: Fellowship FEBS (14th Young Scientist Forum FEBS, e FEBS Congress; Paris 27th- 30th August 2014)

- November 2012: MIUR fellowship for PhD graduation school in Biochemistry, Molecular Biology and Biotechnology- University of Ferrara

## PUBBLICATIONS

1. **Romani A**, Cervellati C, Muresan XM, Belmonte G, Pecorelli A, Cervellati F, et al. Keratinocytes oxidative damage mechanisms related to airborne particle matter exposure. *Mech Ageing Dev* 2017; pii: S0047-6374(17)30083-0  
[10.1016/j.mad.2017.11.007](https://doi.org/10.1016/j.mad.2017.11.007) IF: 3.087
2. Trentini A, Castellazzi M, **Romani A**, Squerzanti M, Baldi E, Caniatti ML, et al. Evaluation of total, ceruloplasmin-associated and type II ferroxidase activities in serum and cerebrospinal fluid of multiple sclerosis patients. *J Neurol Sci*. 2017;377:133-136  
[doi: 10.1016/j.jns.2017](https://doi.org/10.1016/j.jns.2017) IF 2.295
3. Castellazzi M, Trentini A, **Romani A**, Valacchi G, Bellini T, Bonaccorsi G, et at. Decreased Arylesterase activity of Paraoxonase-1 (PON-1) might be a common denominator of neuroinflammatory and neurodegenerative diseases. *Int J Biochem Cell Biol* 2016;81(Pt B):356-363.  
[doi: 10.1016/j.biocel.2016.06.008](https://doi.org/10.1016/j.biocel.2016.06.008) IF: 3.505
4. **Romani A**, Trentini A, Passaro A, Bosi C, Bellini T, Ferrari C, Cervellati C, Zuliani G. Mutual relationship between Serum Ferroxidase Activity and Hemoglobin levels in elderly individuals. *Ann Hematol*. 2016;95(8):1333-9.  
[doi: 10.1007/s00277-016-2709-8](https://doi.org/10.1007/s00277-016-2709-8) IF: 3.083
5. Cervellati C, **Romani A**, Cremonini E, Bergamini CM, Fila E, Squerzanti M, Greco P, Massari L, Bonaccorsi G. Higher Urinary Levels of 8-Hydroxy-2'-deoxyguanosine Are Associated with a Worse RANKL/OPG Ratio in Postmenopausal Women with Osteopenia. *Oxid Med Cell Longev* 2016; 2016:6038798.  
[doi: 10.1155/2016/6038798](https://doi.org/10.1155/2016/6038798) IF: 4.593
6. Cervellati C, Wood PL, **Romani A**, Valacchi G, Squerzanti M, Sanz MJ, Ortolani B, Zuliani G. Oxidative challenge in Alzheimer's disease: state of knowledge and future needs. *J Investig Med* 2016;64(1):21-32.  
[doi: 10.1136/jim-2015-000017](https://doi.org/10.1136/jim-2015-000017) IF: 1.943
7. Bonaccorsi G\*, **Romani A\***, Cremonini E, Bergamini CM, Castaldini MC, Fila E, Hanau S, Massari L, Cervellati C. Oxidative stress and menopause-related hot flashes might be independent events. *Taiwan J Obstet Gynecol* 2015;54(3):290-3.  
[doi: 10.1016/j.tjog.2014.09.009](https://doi.org/10.1016/j.tjog.2014.09.009) IF: 0.865
8. Cervellati C, **Romani A**, Bergamini CM, Bosi C, Sanz JM, Passaro A, Zuliani G. PON-1 and ferroxidase activities in older patients with Mild Cognitive Impairment, Late Onset Alzheimer's Disease or Vascular Dementia. *Clin Chem Lab Med* 2015;53(7):1049-56.  
[doi: 10.1515/cclm-2014-0803](https://doi.org/10.1515/cclm-2014-0803) IF: 3.432
9. Cervellati C, **Romani A**, Bosi C, Magon S, Passaro A, Bergamini CM, Zuliani G. Serum levels Hydroperoxides and multimorbidity among older patients with mild cognitive impairment or Late Onset Alzheimer's Disease. *Aging clin exp research*. *Aging Clin Exp Res* 2015;27(6):799-804.  
[doi: 10.1007/s40520-015-0352-1](https://doi.org/10.1007/s40520-015-0352-1) IF: 1.394
10. Bonaccorsi G, Fila E, Cervellati C, **Romani A**, Giganti M, Rossini M, Greco P, et al. Assessment of Fracture Risk in A Population of Postmenopausal Italian Women: A Comparison of Two Different Tools. *Calcif Tissue Int* 2015;97:50-7.  
[doi: 10.1007/s00223-015-0009-2](https://doi.org/10.1007/s00223-015-0009-2) IF: 3.124

11. Cervellati C, Trentini A, **Romani A**, Bellini T, Bosi C, Ortolani B, Zurlo A, Passaro A, Seripa D, Zuliani G. Serum Paraoxonase and Arylesterase activities of paraoxonase-1 (PON-1), mild cognitive impairment, and 2-year conversion to dementia. A pilot study. *J Neurochem* 2015;135(2):395-401.  
doi: 10.1111/jnc.13240 IF: 4.083
12. Cervellati C, Sticozzi C, **Romani A**, Belmonte G, De Rasmio D, Signorile A, Cervellati F, Milanese C, Mastroberardino PG, Pecorelli A, Savelli V, Forman HJ; Hayek J, Valacchi G. Impaired enzymatic defensive activity, mitochondrial and proteasome dysfunction are involved in RTT cells oxidative damage. *Molecular Basis of Disease. Biochim Biophys Acta* 2015;1852:2066-74.  
doi: 10.1016/j.bbdis.2015.07.014 IF: 4.702
13. Cervellati C, Bonaccorsi G, Cremonini E, **Romani A**, Castaldini C, Fila E, Ferrazzini S, Massari L, and Bergamini CM. Waist circumference and dual-energy X-ray absorptiometry measures of overall and central obesity are similarly associated with systemic oxidative stress in women. *Scand J Clin Lab Invest* 2014;74(2):102-7.  
doi: 10.3109/00365513.2013.860618 IF: 1.446
14. Cervellati F, Cervellati C, **Romani A**, Cremonini E, Sticozzi C, Pessina F and Valacchi G. Hypoxia induces cell damage via oxidative stress in retinal epithelial cells. *Free Rad Res* 2014;48(3):303-12.  
doi: 10.3109/10715762.2013.867484 IF: 3.188
15. Cervellati C, **Romani A**, Seripa D, Cremonini E, Bosi C, Magon S, Passaro A, Bergamini CM, Pilotto A, Zuliani G. Oxidative balance, homocysteine, and uric acid levels in older patients with Late Onset Alzheimer's Disease or Vascular Dementia. *J Neurol Sci* 2014;337(1-2):156-61.  
doi: 10.1016/j.jns.2013.11.041 IF: 2.295
16. Cervellati C, **Romani A**, Seripa D, Cremonini E, Bosi C, Magon S, Bergamini CM, Valacchi G, Pilotto A. Systemic oxidative stress and conversion to dementia of elderly patients with mild cognitive impairment. *Biomed res int* 2014;2014:309507.  
doi: 10.1155/2014/309507 IF: 2.476
17. Cervellati C, Bonaccorsi G, Cremonini E, **Romani A**, Fila E, Castaldini MC, Ferrazzini S, Giganti M, Massari L. Oxidative stress and bone resorption interplay as a possible trigger for Postmenopausal Osteoporosis. *Biomed res int* 2014;2014:569563.  
doi: 10.1155/2014/569563 IF: 2.476
18. Cervellati C, **Romani A**, Fainardi E, Trentini A, Squerzanti M, Baldi E, Caniatti ML, Granieri E, Bellini T, Castellazzi M. Serum Ferroxidase Activity in patients with Multiple Sclerosis: a pilot study. *In vivo* 2014; 28(6): 1197-200.  
PMID:25398823 IF: 0.953
19. Cremonini E, Bonaccorsi G, Bergamini CM, Castaldini C, Ferrazzini S, Capatti A, Massari L, **Romani A**, Marci R, Fila E, Ferrari C, Cervellati C: Metabolic transitions at menopause: In post-menopausal women the increase in serum uric acid correlates with abdominal adiposity as assessed by DXA. *Maturitas* 2013; 75(1):62.  
doi: 10.1016/j.maturitas.2013.01.014 IF: 3.255
20. Cervellati C, Bonaccorsi G, Cremonini E, **Romani A**, Fila E, Castaldini C, Ferrazzini S, Massari L, Squerzanti M, Sticozzi C, Mischiati C: Accumulation of central fat correlates with an adverse oxidative balance in non-obese postmenopausal women. *Gynecol Endocrinol* 2013; 29(12):1063-6.  
doi: 10.3109/09513590.2013.831829 IF: 1.585

## ORAL COMMUNICATION

- New insights on cutaneous SRB1 functions. 11th Annual Meeting of Young Reserchers in Physiology Fiesole (Florence), 25<sup>th</sup> May 2017
- Sex-related emerging cardiovascular risk factors and evaluation of the individual cardiovascular risk score. International Menopause society, Prague 29<sup>th</sup> September 2016
- Brain SRB1 modulation as a possible player in Rett syndrome pathogenesis. International Rett Syndrome conference, RTT 50.1, Vienna 16<sup>th</sup> September 2016 (on behalf of Prof G. Valacchi)

## CONGRESS ABSTRACTS

1. Circadian clock and oxidative Stress: functional cross-talk in skin homeostasis. Benedusi M, Frigato E, Romani A, Bertolucci C, Valacchi G. 19th Biennial Meeting of Society for Free Radical Research International; SFRRi 2018 (Lisbon, 4<sup>th</sup>-7<sup>th</sup> June 2018)  
<https://doi.org/10.1016/j.freeradbiomed.2018.04.530>
2. Circadian Rhythms and Oxidative Stress: functional interconnections to maintain skin homeostasis. Frigato E, Benedusi M, Romani A, Bertolucci C, Valacchi G. Skin Ageing & Challenges 2018 (Porto, 26th-28th February 2018)
3. Nrf2-pathway alteration in RTT syndrome. Crivellari I, **Romani A**, Pecorelli A, Cervellati C, Cervellati F, Benedusi M, Hayek J, Valacchi G. OCC World Congress and Annual SFRR-E Conference 2017 Metabolic Stress and Redox Regulation (Berlin, 21<sup>st</sup> -23<sup>rd</sup> June 2017)  
<https://doi.org/10.1016/j.freeradbiomed.2017.04.219>
4. Mitochondrial dysfunction, impaired antioxidant enzymatic activity and compromised proteasome function in Rett syndrome. Valacchi G, **Romani A**, Cervellati C, Pecorelli A, Belmonte G Cervellati F, Sticozzi C, HayekJ. International Rett Syndrome conference, RTT 50.1 (Vienna 15<sup>th</sup>-17<sup>th</sup> September 2016)
5. Brain and serum cholesterol metabolism during perimenopausal transition: a risk factor for Alzheimer's disease?. Romani A, Cervellati C, Yin F, Trentini A, Bellini T, Fila E, Bonaccorsi G, Valacchi G, Brinton RD. Society for Free Radical Research Europe (SFRR Europe, Budapest 8<sup>th</sup> 11th June 2016).  
<http://dx.doi.org/10.1016/j.freeradbiomed.2016.04.084>
6. Early involvement of systemic redox imbalance in late Alzheimer's disease and vascular dementia. Romani A, Cremonini E, Cervellati C, Bosi C, Squerzanti M, Bergamini CM, Valacchi G, Zuliani G. Society for Free Radical Research Europe (SFRR Europe, Budapest 8<sup>th</sup> 11th June 2016).  
<http://dx.doi.org/10.1016/j.freeradbiomed.2016.04.105>
7. Involvement of pro- and anti-inflammatory adipokines in the pathogenesis of postmenopausal osteoporosis: data from a pilot study. Cervellati C, Bonaccorsi G, Fila E, Romani A, Tisato V, Bertarelli F, Bazzan E, Spagnolo M, Squerzanti M, Greco P, Massari L. Interational Society of Gynecological Endocrinology, 17th World Congress (ISGE, 2nd-5th March 2016, Firenze).  
DOI:10.3109/09513590.2016.1150635
8. Brain and serum cholesterol metabolism during perimenopausal transition: a risk factor for Alzheimer's disease?. **Romani A**, Yin F, Cervellati C, Bonaccorsi G, Brinton RD. Interational Society of Gynecological Endocrinology, 17th World Congress (ISGE, 2nd-5th March 2016, Firenze).  
DOI:10.3109/09513590.2016.1150635

9. Preclinical safety and efficacy of allopregnanolone in a mouse model for Alzheimer's disease. Caldwell CC, Irwin RW, **Romani A**, Solinsky C, Chen S, Brinton RD. 2015 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2015. Online (17<sup>th</sup>-21<sup>th</sup> October, 2015 Chicago)
10. Late onset Alzheimer Disease and Vascular dementia are precociously associated with a derangement in Systemic Oxidative Balance. **Romani A**, Cremonini E, Cervellati C, Bosi C, Squerzanti M, Bergamini CM, Zuliani G. Alzheimer's Association international conference 2015 (July 18<sup>th</sup>-23<sup>th</sup>, 2015 Washington DC). *Alzheimer's & dementia* 2015; 11(7) Supplement, July 2015:P652–P653. doi:10.1016/j.jalz.2015.06.954
11. Paraoxonase-1 and dementia-related diseases. Crivellari I, **Romani A**, Cervellati C, Tonus E, Squerzanti M, Trentini A, Cremonini E, Bosi C, Ortolani B, Zuliani G. Oxygen Club of California 2015 Word Congres. "Oxidant and Antioxidant in Biology" (June 24<sup>th</sup>-26<sup>th</sup>, 2015 Valencia).
12. Systemic oxidative stress might be in the path from normal cognitive function to dementia: data from cross-sectional and longitudinal study. **Romani A**, Cremonini E, Cervellati C, Bosi C, Magon S, Squerzanti M, Bergamini CM, Zuliani G. Young Scientist Forum- FEBS (August 2014, Paris)
13. Systemic oxidative stress might be in the path from normal cognitive function to dementia: data from cross-sectional and longitudinal study. **Romani A**, Cremonini E, Cervellati C, Bosi C, Magon S, Squerzanti M, Bergamini CM, Zuliani G. FEBS-EMBO (September 2014, Paris). *The FEBS Journal* 2014; 281 (S1):384-385. DOI: 10.1111/febs.12919
14. Implication of oxidative stress in dementia: data from cross-sectional and longitudinal study. **Romani A**, Cervellati C, Cremonini E, Bosi C, Magon S, Squerzanti M, Trentini A, Sticozzi C, Valacchi G, Bergamini CM, Zuliani G. Cellular Enviromental stressors in biology and medicine (June 2014, Ferrara).
15. Evaluation of a possible role of oxidative stress in climacteric symptoms. **Romani A**, Cervellati C, Cremonini E, Fila E, Castaldini C, Ferrazzini S, Squerzanti M, Trentini A, Spagnolo M, Bellini T, Casoni B, Fantini G, Casali F, Massari L, Bonaccorsi G. Cellular Enviromental stressors in biology and medicine (June 2014, Ferrara)
16. Effects of a diet rich of antioxidants on bone metabolism in postmenopausal women. Bonaccorsi G, **Romani A**, Fila E, Cremonini E, Cervellati C, Castaldini C, Ferrazzini S, Squerzanti M, Massari L, Ravani B, Canducci E. Cellular Enviromental stressors in biology and medicine (June 2014, Ferrara)
17. NOX activation and mitochondrial ROS production are involved in redox state alteration of RTT cells. Cervellati C, Sticozzi C, **Romani A**, Belmonte G, Cremonini E, Signorile A, De Rasmio D, Cervellati F, Pecorelli A, Cortelazzo A, Leoncini S, Signorini C, Ciccoli L, Forman HJ, Hayek J, Valacchi G. Cellular Enviromental stressors in biology and medicine (June 2014, Ferrara).
18. Antiglaucoma drops influence the production of advanced glycation end-products (AGEs) in the Conjuntival sac fluid of glaucoma patients. Manfrinato MC, Trentini A, **Romani A**, Cervellati C, Dallochio F, Perri P, Sorrentino FS, Lamberti G, Sebastiani A, Bellini T. Cellular Enviromental stressors in biology and medicine (June 2014, Ferrara).
19. Effects of a diet rich in antioxidants on bone metabolism in postmenopausal women. Bonaccorsi G, **Romani A**, Fila E, Biasiolo M, Cremonini E, Cervellati C, Castaldini M, Ferrazzini S, Squerzanti M, Ravani B, Canducci E, Massari L. World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (WCO-IOF-ESCEO) (April 2014, Seville). *Osteoporosis International* 2014, 25(2): S404. DOI 10.1007/s00198-014-2642-4.
20. Systemic oxidative stress in older patients with mild cognitive impairment or late onset Alzheimer's disease. Cremonini E, **Romani A**, Cervellati C, Bosi C, Magon, Zurlo A, CM Bergamini, G Zuliani. VIII International Congress of Society for Free Radical Biology and Medicine, South America Group. (October 2013, Buenos Aires)

21. Systemic oxidative stress in older patients with mild cognitive impairment or late onset Alzheimer's disease. **Romani A**, Cremonini E, Cervellati C, Bosi C, Magon, Zurlo A, CM Bergamini, G Zuliani. 57th National Meeting of the Italian Society of Biochemistry and Molecular Biology (September 2013, Ferrara).
22. Bone loss: possible role of oxidative stress in the development of postmenopausal osteoporosis. **Romani A**, Cremonini E, Cervellati C, Castaldini C, Ferrazzini S, Bergamini CM, et al. Casali F, Fantini GF, Squerzanti M, Lanzara V, Sticozzi C, Valacchi G, Fila E, Massari L, Bonaccorsi G. 57th National Meeting of the Italian Society of Biochemistry and Molecular Biology (September 2013, Ferrara).
23. Possible role of oxidative stress in the derangement of bone metabolism leading to osteoporosis". Cremonini E, **Romani A**, Bonaccorsi, Castaldini, Ferrazzini, Bergamini CM, Casali, Sticozzi, Valacchi, Fila E, Massari L, Cervellati C. Nutrition, Oxygen Biology and Medicine 5<sup>th</sup> International Symposium (June 2013, Paris).
24. Bone mass density is independently associated with oxidative stress in post- but not in pre-menopausal women. Cremonini E, **Romani A**, Bonaccorsi G, Bergamini CM, Patella A, Castaldini C, Ferrazzini S, Capatti A, Fila E, Casali F, Fantini GF, Lanzara V, Massari L, Cervellati C. 56<sup>th</sup> National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB, Chieti 2012).
25. Role of oxidative stress in chemical hypoxia induced apoptosis". Cremonini E, **Romani A**, Cervellati F, Cervellati C, Pavan B, Sticozzi C, Valacchi G. 56<sup>th</sup> National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB, Chieti 2012)

22<sup>nd</sup> June 2018

Arianna Romani, Ph.D

*Il sottoscritto acconsente, ai sensi del D.Lgs 30/06/2003 n.196, al trattamento dei propri dati personali.  
Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università di Ferrara*