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Decreto Rettore Università di Roma “La Sapienza” n 2627/2020 del 27/10/2020

**ERNESTO MADDALONI**  
**Curriculum Vitae ai fini della pubblicazione**

Place: Rome

Date: 07 Dec 2020

**Part I – General Information**

Full Name	ERNESTO MADDALONI
Date of Birth	24 July 1986
Place of Birth	SAN GIORGIO A CREMANO (NA)
Citizenship	ITALY
Spoken Languages	ITALIAN, ENGLISH

**Part II – Education**

Type	Year	Institution	Notes (Degree, Experience)
National Scientific Qualification as Associate Professor	2020	Italian Ministry of University and Research	“ <i>Abilitazione Scientifica Nazionale alle funzioni di professore di seconda fascia</i> ” round 2018-2020, SSD MED13, SC06/D2
PhD	2019	Campus Bio-Medico University of Rome, Italy	PhD in Integrated Biomedical Sciences and Bioethics; Endocrinology curriculum.
Specialty	2016	Campus Bio-Medico University of Rome, Italy	Specialty in Endocrinology and Metabolic Disorders
Post-graduate studies	2015	Educational Critical Care Conc. NH20586	American Heart Association Advanced Cardiac Life Support (ACLS) Provider
Post-graduate studies	2015	Harvard Clinical and Translational Science Center, Boston, MA, USA	Introduction to Meta-Analysis & Systematic Review Methods, Harvard Catalyst’s Biostatistic Program
Post-graduate studies	2013	Italian Society of Diabetes (SID)	Good Clinical Practice Course
Post-graduate studies	2013	University of Oxford, UK	10 <sup>th</sup> Robert Turner Clinical Research Course of the European Association for the Study of Diabetes (EASD)
Post-graduate studies	2010 - 2011	Campus Bio-Medico University of Rome, Italy	Internship in Endocrinology and Metabolic Disorders
Licensure	2011	Campus Bio-Medico University of Rome, Italy	Italian licensure to practice medicine
University graduation	2010	Campus Bio-Medico University of Rome, Italy	Degree in Medicine and Surgery (MD).

### Part III – Appointments

#### IIIA – Academic Appointments

Start	End	Institution	Position
2020	Present	Sapienza University of Rome, Italy	Post-Doctoral Research Fellow (Assegno di ricerca cat. B, tipologia 2, SSD MED/13)
2018	2019	Sapienza University of Rome, Italy	Post-Doctoral Research Fellow (Assegno di ricerca cat. B, tipologia 1, SSD MED/13)
2017	Present	Diabetes Trial Unit, The Oxford Center for Diabetes, Endocrinology and Metabolism, University of Oxford, UK	Senior Research Fellow
2014	2015	Joslin Diabetes Center, Harvard Medical School, Boston, MA, USA	Research fellow

#### IIIB – Other Appointments

Start	End	Institution	Position
2020	Present	Frontiers Clinical Diabetes and Healthcare	Associate Editor
2019	Present	Frontiers in Endocrinology – Pediatric Endocrinology	Editorial Board member as Review Editor
2017	Present	BMC Endocrine Disorder	Associate Editor
2016	Present	Campus Bio-Medico University Hospital, Rome, Italy	Clinical activity as endocrinology specialist

#### IIIC – Participation in the activities on national and international study groups

Start	End	Research Group
2017	Present	Diabetes Trial Unit, Oxford University, Study Group
2014	2015	Medalist Study Group
2011	Present	Immunotherapy Diabetes (IMDIAB) Study Group

### Part IV – Teaching experience

Year	Institution	Lecture/Course
2017	Campus Bio-Medico University of Rome, Italy	Caveat in diabetes care in the complex patient / High Specialty Master in Palliative Care, Faculty of Medicine /CDC GR9010 COMM. MA1502)
2010-2014	Campus Bio-Medico University of Rome, Italy	Medical Students Personal Tutor
2008 and 2009	Campus Bio-Medico University of Rome, Italy	Atherogenesis, diabetes and dyslipidemia / Course of General Pathology, Dietician Degree Program, Faculty of Medicine

## Part V - Society memberships, Awards and Honors

Year	Title
2020	“Premio Galeno”, conferred by “Società Italiana di Diabetologia” (SID)
2019	Young Investigator Travel Grant Award for Top Scoring Abstract, conferred by American Diabetes Association, US
Since 2019	Member of the Educational Committee of the Italian Society of Endocrinology (SIE)
2017	Early Investigator Award, conferred by Endocrine Society, US
2017	Travel Grant Award conferred by “Società Italiana di Diabetologia” (SID)
2017	Young Investigator Award conferred by “Società Italiana di Endocrinologia” (SIE)
2015	Albert Renold Travel Fellowship conferred by European Foundation for the Study of Diabetes
2014	“Campus Bio-Medico Alumni Association” Award for Research Internationalization
Since 2016	Member of the scientific committee of YoSID group
Since 2016	Member of YoSID group (Youngest of the Italian Society of Diabetes)
Since 2013	Member of the “Endocrine Society”
Since 2013	Member of the “Italian Society of Osteoporosis, Mineral Metabolism and Bone Diseases (SIOMMMS)”
Since 2011	Member of the “European Association for the Study of Diabetes (EASD)”
Since 2011	Member of the “Italian Society of Endocrinology (SIE)”
Since 2011	Member of the “Italian Society of Diabetes (SID)”

## Part VI - Funding Information [grants as PI-principal investigator or Co-PI-CoPrincipal investigator or I-Investigator]

Year	Title	Program	Grant value	Role
2019	Correlation between Cardiac Autonomic Neuropathy and Bone Fragility in Autoimmune Diabetes	Sapienza University Starting Grant – Type II	2,000 Euro	PI
2018	Role of post-translational insulin modifications in the pathogenesis, staging and therapy of type 1 diabetes	Italian Ministry of Health, Ricerca Finalizzata for Young Researcher -Theory Enhancing	405,000 Euro	Co-PI
2017	Improving the assessment of cardiovascular risk in diabetes in the contemporary era	European Foundation for the Study of Diabetes (EFSD) Future Leaders Mentorship Programme for Clinical Diabetologists	75,000 USD	PI
2019	Genetics and autoantibody heterogeneity of autoimmune diabetes:	Progetti di Ricerca Sapienza University of Rome	33,000 Euro	I

	implications for precision medicine			
2017	Molecular and pathophysiological heterogeneity of autoimmune diabetes: implications for precision medicine	PRIN (Scientific Research Projects of National Interest)	724,000 Euro	I
2015	Radiographic and proteomic characterization of bone health in patients with type 2 diabetes and type 1 diabetes of extreme duration	NIH/NIDDK DiaComp. Ref number: DK076169	100,000USD	I (Consultant)
2014	Evaluation of chronic complications in patients with Latent Autoimmune Diabetes in Adults(LADA)	Progetti di Ricerca Sapienza University of Rome	40,000 Euro	I
2014	Evaluation of bone strength and WNT pathway in obese patients	Progetto Ateneo Campus Bio-Medico	170,000 Euro	I
2013	Evaluation of corneal innervation as a new tool to detect autonomic neuropathy in diabetes	Fondazione Roma “2013 Grant for Biomedical Research”	234,000 Euro	I

## Part VII – Research Activities

### Keywords

### Brief Description

Type 1 diabetes; Latent Autoimmune Diabetes in Adults (LADA); Type 2 diabetes; Vascular diabetic complications; diabetic osteopathy	My main research fields are the natural history and complications of autoimmune diabetes, which I have mainly studied in adult people, both those with a juvenile onset and those with latent autoimmune diabetes in adults (LADA). Because of my research interest, in 2014 I moved to Boston for a Research Fellowship at the Joslin Diabetes Center (Harvard Medical School) in the Section of Vascular Cell Biology. There I focused my research on cardiovascular disease and its relationship with bone metabolism and diabetic osteopathy amongst the Joslin 50-Year Medalist Cohort, which is composed of about 1000 adult individuals who have survived fifty or more years with type 1 diabetes. By working at the Joslin Diabetes Center on clinical and translational data from the Medalists, I acquired several research skills, including statistical skills by advancing my understanding of higher order regression modelling to work on translational science papers with Epidemiologist/ Biostatistician. After the completion of my Fellowship in Harvard, I returned to my home town in Italy where I started a Ph.D. course in Integrated Biomedical Sciences and Bioethics, curriculum in Endocrinology, which I completed in March 2019 discussing a thesis entitled: “ <i>Adults with autoimmune diabetes: vascular risk, emerging complications and novel disease pathways</i> ”. During my PhD I continued to
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	study determinants of multiorgan complications of autoimmune diabetes and started a collaboration with the Diabetes Trial Unit, University of Oxford, to investigate rates and risk factors for macrovascular and microvascular complications of LADA.
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### Part VIII – Speaker in National and International meetings hosted by scientific societies

Year	Meeting	Title of the Talk (original language) and type
2020	<i>28° Congresso Nazionale della Società Italiana di Diabetologia</i>	Terapia di Associazione all'Insulina nel Diabete di Tipo 1: SGLT2i – Plenary Talk
2020	<i>46th Annual Conference of the International Society for Pediatric and Adolescent Diabetes (ISPAD)</i>	Predictors of Adipose Tissue Dysfunction and Cardiovascular Risk in Obesity - Plenary Talk
2020	<i>Convegno Regionale SID-AMD Lazio 2020</i>	Secrezione insulina: quando come e chi misurarla - Plenary Talk
2020	<i>Riunione del Gruppo di Studio Congiunto Diabete e Aterosclerosi della Società Italiana di Diabetologia e della Società Italiana per lo Studio dell'Arteriosclerosi</i>	L'osteoprotegerina è un marcatore di complicanze micro e macrovascolari nel diabete tipo 2 – Oral communication
2020	<i>XII Edizione Parma Diabete della Società Italiana di Diabetologia</i>	Diabete autoimmune dell'adulto: eterogeneità clinica e rischio di complicanze - Plenary Talk
2020	<i>Congresso Annuale 2020 del Gruppo di Studio Aterosclerosi, Trombosi e Biologia Vascolare</i>	Quando utilizzare i nuovi farmaci antidiabetici: solo nei pazienti diabetici a più alto rischio cardiovascolare - Plenary Talk
2019	<i>European Society on Aldosterone Council (ESAC) Meeting 2019</i>	Novel therapeutic opportunities for cardio-renal complications of type 2 diabetes: SGLT2i, GLP1-RA and non-steroidal MR antagonists - Plenary Talk
2019	<i>Panorama Diabete - Forum Multidisciplinare e Multidimensionale della Società Italiana di Diabetologia</i>	Il paziente con diabete su base genetica: quando sospettarlo nel giovane adulto - Plenary Talk
2019	<i>79th Scientific Sessions dell'American Diabetes Association</i>	Microvascular Complications in Latent Autoimmune Diabetes of Adults: Results from the UKPDS – Oral communication
2019	<i>7th World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (CODHy)</i>	Microvascular Complications in LADA: similar or different from T1D – Plenary talk
2018	<i>44th National Congress Romanian Society of Diabetes, Nutrition and Metabolic Diseases</i>	Insulin and SGLT2i therapy for Type 1 Diabetes - Plenary talk
2017	<i>43th National Congress Romanian Society of Diabetes, Nutrition and Metabolic Diseases</i>	GLP1-RA vs Insulin: which should be the first choice - Plenary talk
2017	<i>Riunione Annuale Congiunta AMD-SID Campania 2017</i>	Diabete Autoimmune dell'Adulto: nuove prospettive cliniche e terapeutiche - Plenary talk
2016	<i>76th Scientific Sessions dell'American Diabetes Association</i>	High Density Lipoprotein Modulates Osteocalcin Expression in Circulating Monocytes: A Potential Marker of CVD in Type 1 Diabetes – Oral communication
2016	<i>26° Congresso Nazionale della Società Italiana di Diabetologia</i>	Fragilità e qualità ossea in soggetti anziani con >50 anni di diabete di tipo 1 – Oral communication

2014	25° Congresso Nazionale della Società Italiana di Diabetologia	Microscopia corneale confocale in vivo: nuova metodica non invasiva per lo studio della neuropatia cardiaca autonoma nel diabete tipo 1 – Oral communication
2013	XIII Congresso Nazionale della Società Italiana dell'Osteoporosi del Metabolismo Minerale e delle Malattie dello Scheletro	Femoral Bone Mineral Density Differs in Female Elderly Obese Depending on Serum Levels of Tumor Necrosis Factor Alpha – Oral communication

## Part IX – Summary of Scientific Achievements

Product	Number	Data Base
Total number of scientific Products	60	Scopus
Total Impact factor (year of publication)	348.216	Scopus
Average Impact factor per Product (year of publication)	5.804	Scopus
Total Citations	770	Scopus
Average Citations per Product	12.8	Scopus
Hirsch (H) index	16	Scopus
Normalized H index*	1.6	Scopus

\*H index divided by the academic seniority.

## Part X– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

1. **Maddaloni E**, Sabatino F, Del Toro R, Crugliano S, Grande S, Lauria Pantano A, Maurizi AR, Palermo A, Bonini S, Pozzilli P, Manfrini S. "In vivo corneal confocal microscopy as a novel non-invasive tool to investigate cardiac autonomic neuropathy in Type 1 diabetes." *Diabet Med*. Vol. 32, no 2, pp 262-266. Feb 2015. doi: 10.1111/dme.12583; PMID: 25251450. IF (year of publication): 3.153. Citations (Scopus): 25
2. **Maddaloni E**, Lessan N, Al Tikriti A, Buzzetti R, Pozzilli P, Barakat MT. "Latent Autoimmune Diabetes in Adults in the United Arab Emirates: Clinical Features and Factors Related to Insulin-Requirement." *Plos One*. Vol. 10, no 8, pp: e0131837, eCollection 2015. doi: 10.1371/journal.pone.0131837; PMID: 26252955. IF (year of publication): 3.057. Citations (Scopus): 40
3. Keenan HA, **Maddaloni E**. "Bone microarchitecture in type 1 diabetes: it is complicated". *Curr Osteoporos Rep*. Vol. 14, no 6, pp 351-358. Dec 2016. doi: 10.1007/s11914-016-0338-8; PMID: 27704394. IF (year of publication): 3.721. Citations (Scopus):13
4. **Maddaloni E**, D'Eon S, Hastings S, Tinsley LJ, Napoli N, Khamaisi M, Boussein ML, Fouda SMR, Keenan HA. "Bone health in subjects with type 1 diabetes for more than 50 years." *Acta Diabetol*. Vol. 54, no. 5, pp: 479-488. May 2017 doi: 10.1007/s00592-017-0973-2; PMID: 28236093. IF (year of publication): 3.126. Citations (Scopus): 18
5. Buzzetti R, Zampetti S, **Maddaloni E**. "Adult-onset autoimmune diabetes: current knowledge and implication for management." *Nat Rev Endocrinol*. Vol. 13, no 11, pp: 674-686. Nov 2017 Doi:

- 10.1038/nrendo.2017.99; PMID: 28885622. IF (year of publication): 20.265. Citations (Scopus): 67
6. **Maddaloni E**, Pastore G, Del Buono MG, Porcari A, Fittipaldi M, Garilli F, Tiberti C, Angeletti S, Pozzilli P, Mottini G, Napoli N. “High prevalence of autoimmune diabetes and poor glycaemic control among adults in Madagascar: a brief report from a humanitarian health campaign in Ambanja.” *J Diabetes Res.* 2017; 3860674. Epub Sep 2017. doi: 10.1155/2017/3860674, PMID: 29018826. IF (year of publication): 2.885. Citations (Scopus): 8
  7. **Maddaloni E**, Xia Y, Park K, D’Eon S, Tinsley LJ, St-Louis R, Khamaisi M, LI Q, King GL, Keenan HA. “High Density Lipoprotein modulates osteocalcin expression in circulating monocytes: a potential protective mechanism for cardiovascular disease in type 1 diabetes.” *Cardiovasc Diabetol.* Vol. 16, no. 1 pp:116. Sep 2017. doi: 10.1186/s12933-017-0599-2. PMID 28915881. IF (year of publication) 5.235. Citations (Scopus): 8
  8. Lauria A, **Maddaloni E (first author equal contribution)**, Briganti SI, Beretta Anguissola G, Perrella E, Taffon C, Palermo A, Pozzilli P, Manfrini S, Crescenzi A. “Differences between ATA, AACE/ACE/AME and ACR TI-RADS ultrasound classifications performance in identifying cytological high-risk thyroid nodules.” *Eur J Endocrinol.* Vol. 178, no. 6, pp: 595-603. Jun 2018.doi: 10.1530/EJE-18-0083. PMID: 29626008. IF (year of publication): 5.107. Citations (Scopus): 42
  9. Peralice S, Vari R, Minutolo A, Maurizi AR, Fioriti E, Napoli N, Pozzilli P, Manfrini S, **Maddaloni E**. “Biomarkers of response to alpha-lipoic acid ± palmitoiletanolamide treatment in patients with diabetes and symptoms of peripheral neuropathy.” *Endocrine* Vol. 66, n. 2, pp: 178-184. Nov. 2019 doi: 10.1007/s12020-019-01917-w; PMID: 3094991. IF (year of publication): 3.235. Citations (Scopus): 6
  10. Leanza G, **Maddaloni E (first author equal contribution)**, Pitocco D, Conte C, Palermo A, Maurizi AR, Pantano AL, Suraci C, Altomare M, Strollo R, Manfrini S, Pozzilli P, Schwartz AV, Napoli N. “Risk factors for fragility fractures in type 1 diabetes.” *Bone.* Vol. 125, pp: 194-199. Aug 2019. doi: 10.1016/j.bone.2019.04.017; PMID: 31059862. IF (year of publication): 4.147. Citations (Scopus): 12
  11. **Maddaloni E**, Coleman RL, Pozzilli P, Holman RR. “Long-term risk of cardiovascular disease in individuals with latent autoimmune diabetes in adults (UKPDS 85).” *Diabetes Obes Metab* 2019. Vol 21, n.6, pp: 2115-2122. doi: 10.1111/dom.13788. PMID: 31099472. IF (year of publication): 5.900. Citations (Scopus): 11
  12. **Maddaloni E**, Coleman RL, Agbaje O, Buzzetti R, Holman RR. “Time-varying Risk of Microvascular Complications in Latent Autoimmune Diabetes of Adulthood Compared with Type 2 Diabetes in Adults: a post-hoc analysis of the UK Prospective Diabetes Study 30-year follow-up data (UKPDS 86)”. *The Lancet. Diabetes & Endocrinology.* Vol. 8, n. 3, pp: 206-215. Mar 2020. DOI: 10.1016/S2213-8587(20)30003-6. PMID: 32032540. IF (year of publication): 25.340. Citations (Scopus): 9
  13. **Maddaloni E**, Coraggio L, Peralice S, Carlone A, Pozzilli P, Buzzetti R. “Effects of COVID-19 Lockdown on Glucose Control: Continuous Glucose Monitoring Data From People With Diabetes on Intensive Insulin Therapy.” *Diabetes Care.* Vol. 43, n. 8, pp: e86-e87. Aug 2020. DOI: 10.2337/dc20-0954. PMID: 32503838. IF (year of publication): 16.019. Citations (Scopus): 12
  14. **Maddaloni E**, D’Onofrio L, Alessandri F, Mignogna C, Leto G, Pascarella G, Mezzaroma I, Lichtner M, Pozzilli P, Agrò FE, Rocco M, Pugliese F, Lenzi A, Holman RR, Mastroianni CM, Buzzetti R; CoViDiab Study Group. “Cardiometabolic multimorbidity is associated with a worse Covid-19 prognosis than individual cardiometabolic risk factors: a multicentre retrospective study (CoViDiab II)”. *Cardiovasc Diabetol.* Vol. 19, n. 1, pp: 164, Oct 2020 DOI:10.1186/s12933-020-01140-2; PMID: 33004045. IF (year of publication): 7.332. Citations (Scopus): 0
  15. **Maddaloni E**, Briganti SI, Crescenzi A, Beretta Anguissola G, Perrella E, Taffon C, Palermo A, Manfrini S, Pozzilli P, Lauria Pantano A. Usefulness of Color Doppler Ultrasonography in the Risk

Stratification of Thyroid Nodules. *European Thyroid Journal*. Epub 19 Aug 2020. DOI:  
10.1159/000509325. IF (year of publication): 3.378. Citations (Scopus): 0

Il sottoscritto, consapevole che – ai sensi dell’art. 76 del D.P.R. 445/2000 – le dichiarazioni mendaci, la falsità negli atti e l’uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali, dichiara che le informazioni riportate rispondono a verità.

Il sottoscritto in merito al trattamento dei dati personali esprime il proprio consenso al trattamento degli stessi nel rispetto delle finalità e modalità di cui al d.lgs. n. 196/2003.

Roma, il 7/12/2020

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