

CURRICULUM VITAE

Date: August 20, 2020

EDUCATION:

B.A.:

HH.MM. College, Ceuta, Spain

M.D.:

Seville Medical School, Seville, Spain, October 1969-June 1976

Internship:

Department of Medicine, University Hospital, Seville, Spain,

July 1976 - June 1977

Residence:

Department of Medicine, University Hospital, Seville, Spain

July 1977-June 1980

Research Fellowship:

Research Fellow, Nephrology, University of Oklahoma Health
Science Center. July 1980-June 1982 .

Clinical Fellowship:

Clinical Fellow, Nephrology, University of Oklahoma Health
Science Center. July 1982-June 1984.

Doctoral Thesis:

"Clinical Aspects of the Colloid Osmotic Pressure". Received PhD degree from
University of Seville, July 1979.

CERTIFICATION AND LICENSURE

Spanish Board of Internal Medicine. June 1980
ECFMG, March 1982.
FLEX, July 1982.
Oklahoma Medical License #14681
Spanish Board of Nephrology 2001

PROFESSIONAL EXPERIENCE

-Director Research Unit. Hospital Universitario "Reina Sofía. Córdoba. Spain. (1992-2011)
-Professor of Medicine. Facultad Medicina de Córdoba. Spain. (2002-present)
-Associate Professor Medicine. Facultad Medicina de Córdoba. Spain. (1992-2002)
-Assistant Professor of Medicine in Residency, UCLA School of Medicine (July 1989-Nov 1992)
-Staff Physician, Veteran Administration Medical Center West Los Angeles (July 1989-Nov 1992)
-Assistant Professor of Medicine, University of Oklahoma Health Science Center (July 1985-June 1989)
-Staff Physician, Veteran Administration Oklahoma (July 1985-June 1989)
-Research Assistant, Nephrology Section, University of Oklahoma Health Science Center. (July 1984-June 1985).

PROFESSIONAL ACTIVITIES

-Member Scientific Committee "Consejeria de Salud de la Junta de Andalucia". 1993-2009
-Member Research Committee Hospital Universitario "Reina Sofía". Córdoba. Spain. 1992- 2010
-Member Clinical Research and Ethics Committee Hospital Universitario "Reina Sofía".

Córdoba. Spain. 1999-2010.

- Member Research and Development Committee West LA Medical Center 1991.
- Tutor of Introduction to Clinical Medicine Course. Second year medical students UCLA School of Medicine. 1990, 1991.
- Tutor of Introduction to Clinical Medicine Course. Second year medical Student. University of Oklahoma College of Medicine. 1986, 1987, 1988, 1989.

EDITORIAL ACTIVITIES

- Editorial Committee Kidney International and Nephrology Dialysis y transplantation
- Reviewer : American Journal of Kidney Disease, American Journal of Nephrology, American Journal of Physiology, Bone, Clinical Journal of American Society of Nephrology, Clinical Science, Cytokine, European Journal of Endocrinology, European Nephrology, Future Cardiology, International Journal of Endocrinology, International Journal of Nephrology, Journal of American Society of Nephrology, Kidney International, Kidney and Blood Pressure, Nephrology Dialysis Transplantation, Nefrologia , Nephron, Nature Review Endocrinology.

Chief Editor of Nefrologia since 2015-present

REVIEWER PROPOSALS

- Referee for Grant Proposals from the "Ministry of Education" (DGCCYT, I+D) and "Ministry of Health" (FIS) of Spain
- Referee for Scientific Grant Proposals from the Government of Israel
- Referee for Scientific Grant Proposals from the Government of France
- Referee for Scientific Grant Proposals from the Government of Holland
- Director of the course "Introduction to Electrolytes and Acid Base disorders" for the first year medical residents.
- International advisory board for Amgen 2004-present
- International advisory board for Shire 2004-present
- International advisory board for Abbott 2007-present
- International advisory board for Sanifit 20017-present

PROFESSIONAL ASSOCIATIONS:

Groups of the EDTA:

- EUTOX
- CKD-MBD

S.E.I.O.M. (Sociedad Española de Investigación Osea y Mineral).

Sociedad Española de Nefrología.

American Society of Nephrology

International Society of Nephrology

American Federation for Clinical Research

American Society for Bone and Mineral Research



HONORS AND SPECIAL AWARDS

- Seville Medical Association Annual Research Award (1978) for "Evaluation and Techniques for Measurement of Colloid Osmotic Pressure".
- Intern-Residents Day Award. University of Oklahoma Health Science Center. May, 1981.
- Abbot Research Award 1996
- “Fundación Iñigo Alvarez de Toledo” Research award years 1998 and 1999.
- Hospital Research Award 1999
- Cordoba Medical College Research Award, 2011

RESEARCH GRANTS

1- "*Acute aluminum intoxication in rats with renal failure*"

- College of Medicine Small Grant Award. University of Oklahoma Health Science Center. \$5,000 (2/85-2/86).
- Main researcher: Mariano Rodriguez

2- "*Aluminum induced osteomalacia*"

- Faculty Senate Award University of Oklahoma Health Science Center. \$10,000 (2/86-2/87)
- Main researcher: Mariano Rodriguez.

3- "*The effect of captopril in acute ischemic renal failure in the rat*"

- Presbyterian Foundation Award. Oklahoma University. \$10,000. (3/88-3/89)
- Main researcher: Christian Kaufman.

4- "*The Role of Calcitriol in Early Renal Failure: Studies in Patients and in Experimental Animals*".

- Veterans Affairs Merit Review. \$200,000 (7/87-6/91)
- Main researcher: Francisco Llach

5- "*Effect of Aluminum on the Parathyroid Gland*"

- Oklahoma Center for the Advancement of Science and Technology. \$87,611. (7/87-6/90).
- Main researcher: Arnold J Felsenfeld.

6- "*Aluminum Induced Bone Disease and Calcium Regulation*".

- Veterans Affairs Merit Review. \$180,800 (4/87-3/90).
- Main researcher: Arnold J Felsenfeld.

7- "*Diabetic Renal Failure and Secondary Hyperparathyroidism*"

- Baxter Extramural Grant Program. \$110,135.

- (3/90-2/93).

- Main researcher: Arnold J Felsenfeld.

8- "*In vitro studies of parathyroid gland function*"

-Committee on Research of the Academic Senate of the Los Angeles Division of the University of California. \$1,900.

-(6/1990-6/1991)

- Main researcher: Mariano Rodriguez

9- "*El efecto directo del fósforo en la génesis del hiperparatiroidismo secundario*"

-FIS (Expte. nº 93/0560). Ptas:4.900.000

-(1993-1995)

- Main researcher: Mariano Rodriguez

10- "*El efecto directo del fósforo en la función de la célula paratiroidea*"

- Junta de Andalucía. Ptas:1.000.000.

-(1994-1995).

- Main researcher: Mariano Rodriguez

11- "*El efecto del fósforo sobre el calcio citosólico de células paratiroides*"

-DGICYT: (PB 92-0917). Ptas 6.000.000.

-(1993-1995).

- Main researcher: Mariano Rodriguez

12- "*Efectos independientes de la uremia y del down regulation de la PTH en la resistencia esquelética y a la acción hipercalcémica de la parathormona en la insuficiencia renal*".

-FIS (93/0527). Pts 4.186. 000

-(1993-1995)

- Main researcher: Alejandro Martin Malo

13- "*Efecto del calcitriol en la respuesta calcémica a la parathormona en enfermos de diálisis. La influencia de los niveles de calcio y set point*".

-FIS (93/0630). Pts 2.000.000

-(1993-1994)

- Main researcher: Pedro Aljama

14- "*Dinámica de secreción de la hormona paratiroidea: estudio del mecanismo de producción del fenómeno de histeresis*"

-DGICYT (PB 93-0720). 2.450.000 ptas

-(1994-1996)

- Main researcher: Escolastico Aguilera Tejero

15- "*El efecto del calcitriol sobre apoptosis de células paratiroides*".

Junta de Andalucía (Expte.94/477-61). Ptas 700.000

-(1995-1996)

- Main researcher: Mariano Rodriguez

16- "*Papel de la calcitonina en el hiperparatiroidismo secundario de la insuficiencia renal crónica*"

FIS (95/1143) Pts 3.000.000

(1995-1997)

Main researcher: Alejandro Martin Malo

17- *"Estudio de la regulación por calcitriol de la apoptosis inducida en glándulas paratiroides normales e hiperplásicas in vitro"*

-Junta de Andalucía (Expte. 96/152). Pts. 1.300.000

-(1996-1997)

- Main researcher: Mariano Rodríguez

18- *"Efecto directo del fósforo sobre la secreción de hormona paratiroidea. Estudio de los mecanismos de acción"*

-DGICYT (PM 95/0184)Ptas 7.000.000.

-(1996-1998).

- Main researcher: Mariano Rodriguez

19- *"Phosphorus and human parathyroid function in vitro"*

-Baxter Extramural Grant Program. \$ 120.000.

-(1996-1999)

- Main researcher: Mariano Rodriguez

20- *"Estudio del efecto del fósforo sobre el desarrollo y regresión de la hiperplasia en las glándulas paratiroides"*

-Junta de Andalucía (97/156). Pts 900.000

-(1997-1998).

- Main researcher: Mariano Rodriguez

21- *"Efecto directo del fósforo sobre la secreción de hormona paratiroidea: estudios in vivo."*

-PM 97-0090. (1998-200). PTS 4.912.000

-(1998-2000)

- Main researcher: Escolástico Aguilera-Tejero.

22- *"Regulación del receptor de calcitriol (vdr) por el fósforo en la dieta: estudios in vivo e in vitro."*

-Junta de Andalucía (SAS)(190/99):1.983.000

-(1999-2000)

- Main researcher: Mariano Rodriguez Portillo

23- *"Efecto del contenido de fosforo en la dieta sobre la expresión del receptor de receptor de vitamina D a nivel de ARNm y de proteína en la insuficiencia renal".*

-FIS (99/0768): 9.300.000

-(1999-2001)

- Main researcher: Mariano Rodriguez Portillo

24- *"Influencia del estado ácido-base sobre la secreción de PTH: estudios in vitro".*

-Junta de Andalucía.113/00. 3.5000.000

-(2000-2001).

- Main researcher: Mariano Rodríguez Portillo

25- *"Regulación por calcio extracelular del receptor de vitamina D (VDR) en paratiroides: mecanismos e implicaciones funcionales"*

-Ministerio de Ciencia y Tecnología. (BFI2001-0350): 113.350,87. €

-(2001/2003).

- Main researcher: Mariano Rodríguez Portillo.

26- "*Mecanismos intracelulares de la regulación del receptor de vitamina D (VDR) por calcio extracelular en glándulas paratiroides*"

-Junta de Andalucía. (245/01).2.100.000ptas

-(2001-2003).

- Main researcher: Mariano Rodríguez Portillo.

27- "*Efecto directo del pH sobre la secreción de hormona paratiroidea (PTH)*"

-Ministerio de Ciencia y Tecnología. (BFI2001-1901): 35. 940,54 €

-(2001-2003).

- Main researcher: Escolástico Aguilera-Tejero.

28- "*Mecanismos de regulación del receptor de vitamina D(VDR por calcio extracelular en las glándulas paratiroides*".

-FIS (PI020345): 90.025,00 €

-(2002-2004)

- Main researcher: Yolanda Almadén Peña

29- *Regulación de la expresión génica del receptor de vitamina D (VDR) por el calcio extracelular en glándulas paratiroides: implicaciones fisiopatológicas.* .

-Junta de Andalucía (99/02) 24.038 euros

-2002-2004

- Main researcher: Yolanda Almadén Peña

30-*Calcificaciones vasculares en la insuficiencia renal crónica*

-Junta de Andalucía (106/03) 16.500

-2003-2005

- Main researcher: Mariano Rodríguez Portillo

31 "*Efecto de la vitamina D sobre las calcificaciones vasculares en la insuficiencia renal*".

-FIS (PI 041328) 69.000

-2004-2007

- Main researcher: Mariano Rodríguez Portillo

32 *Regulación de la expresión génica del receptor de calcio (RCa) por el calcio extracelular y la vitamina D en glándulas paratiroides y en riñón*

-Junta de Andalucía (195/04) 17.500 euros

-2004-2006

- Main researcher: Yolanda Almadén Peña

33. Junta de Andalucía N.m. Expte.: 0202/2005.

Investigador principal: Rodríguez Portillo, Mariano.

Título proyecto: *Efecto de la acidosis sobre la proliferación celular y la expresión génica de los receptores de calcio (RCA) y de vitamina D (VRD) en las glándulas paratiroides.*

Centro investigación: Hospital U. Reina Sofía (Córdoba).

Presupuesto: 14.000,00 E. 31 "*Efecto de la vitamina D sobre las calcificaciones vasculares en la insuficiencia renal*".

-FIS (PI 041328) 69.000

-2004-2006

- Main researcher: J Mariano Rodríguez Portillo

34 *Calcificaciones vasculares en la uremia , el papel del receptor de calcio de células musculares lisas vasculares. Estudio de transformación fenotípica a estirpe osteoblástica.*

FIS (PI 070315). 90.750 euros

2007-2009

Main researcher: J Mariano Rodríguez Portillo

35 Estudios in vivo e in vitro a cerca de la plasticidad de células madre adultas en relación con el daño inducido en la calcificación celular

Expte: PO-0127/2008 Importe:137.870 Euros

2008-2010

Main researcher: J Mariano Rodríguez Portillo

36 Project name: Vascular calcifications in uremia, the role of the cell calcium receptor vascular smooth muscles. Phenotypic transformation study to osteoblastic lineage.

Geographical scope: National

Organization of realization: Hospital Universitario Reina Sofia

Type of entity: Health Institutions

City entity realization: Córdoba, Andalusia, Spain

Principal i investigator names (IP, Co-IP, ...): Mariano Rodriguez Portillo

Funding entity (s): Carlos III Health Institute Type of entity: Public Organism of Investigation

City financing entity: Majadahonda, Community of Madrid, Spain

Code according to financing company: 07/0315

Start-end date: 2008 - 2010

Total amount: € 90,750

Dedication scheme: Full time

37 Project Name: NEW THERAPY FOR THE TREATMENT OF OSTEOARTROSIS DEGENERATIVE BASED ON A MODIFICATION OF MESENQUIMAL MOTHER CELLS OF ADIPOSE FABRIC

Organization: Carlos III Health Institute Type of entity: Public Organization of Investigation

City entity realization: CORDOBA, Andalusia, Spain

Principal investigator names (IP, Co-IP, ...): Juan Mariano Rodríguez Portillo

Number of researchers: 3

Start-end date: 01/01/2017 - 12/31/2018

Total amount: € 88,500

38 Project Name: ROLE OF FGF23 IN THE PROGRESSION OF VASCULAR DAMAGE ASSOCIATED WITH LA UREMIA: BASIC AND CLINICAL STUDIES

Organization: IMIBIC Type of entity: University Institute of Investigation

City entity realization: CORDOBA, Andalusia, Spain

Number of researchers: 9

Funding entity (s): Ministry of Health of the Junta de Andalucía Type of entity:
SERVICIO ANDALUZ DE SALUD
City financing entity: Seville, Andalusia, Spain
Start-end date: 01/01/2017 - 12/31/2018
Total amount: € 56,640

39 Project name: Influence of urinary phosphorus excretion on the progression of kidney damage. Mechanisms and clinical studies
Entity of realization: Maimonides Institute of Biomedical Research of Córdoba (IMIBIC)
Type of entity: Public Research Organization City entity realization: Córdoba, Andalusia, Spain
Principal i investigator names (IP, Co-IP, ...): Rodriguez Portillo JM; Muñoz Castañeda JR
Funding entity (s): Carlos III Institute Start-end date: 2015 - 2017
Total amount: € 209,632.5

40 Project name: Vascular calcifications. Regulation of osteogenic gene expression in vascular smooth muscle cells and smooth muscle progenitor mesenchymal cells. Via Wnt / β -catenin
Geographical scope: National Organization of realization: Hospital Universitario Reina Sofia Type of entity: Health Institutions
City entity realization: Cordoba, Andalusia, Spain
Principal investigator names (IP, Co-IP, ...): Mariano Rodriguez Portillo Funding entity (s): Carlos III Health Institute Type of entity: Public Organism of Investigation City financing entity: Majadahonda, Community of Madrid, Spain Code according to financing company: PI11 / 02055
Start-end date: 2012 – 2014
Total amount: € 169,070.88 Dedication scheme: Full time

41 Project name: Effect of phosphorus on epigenetic modifications and the Wnt / β -catenin pathways and TGF / BMP in differentiated mesenchymal stem cells to vascular smooth muscle cells
Geographical scope: Regional
Researcher Organization of realization: Hospital Universitario Reina Sofia
Type of entity: Health Institutions
City entity realization: Cordoba, Andalusia, Spain
Principal investigador names (IP, Co-IP, ...): Mariano Rodriguez Portillo Funding entity (s): Ministry of Health of the Junta de Andalucía
Type of entity: Public Entity City financing entity: Seville, Andalusia, Spain
Code according to financing company: SAS111221
Start-end date: 2011 - 2013 Total amount: € 52,500
Dedication scheme: Full time

42 Project name: Role of adult stem cells and vascular smooth muscle in induced damage by vascular calcification. Relationship between phosphorus, Wnt / Beta-catenin and osteogenesis.
Geographical scope: Autonomic

Organization of realization: Hospital Universitario Reina
Sofia Type of entity: Health Institutions
City entity realization: Cordoba, Andalusia, Spain
Principal investigador names (IP, Co-IP, ...): Mariano Rodriguez Portillo
Funding entity (s):
Junta de Andalucía Type of entity: Ministry of innovation science and
company
City financing entity: Seville, Andalusia, Spain
Code according to financing company: PO-0127/2008
Start-end date: 2009 - 2011
Total amount: € 17,504
Dedication scheme: Full time

43 Fis 17/01010 Characterization of Wnt changes induced by Mg and sclerostin and their impact on changes in mineral and vascular bone metabolism associated with kidney disease chronicle

Organization: IMIBIC Type of entity: University Institute of
Investigation
City entity realization: Córdoba, Andalusia, Spain
Principal investigador names (IP, Co-IP, ...): J Mariano Rodriguez Portillo
Number of researchers: 6
Start-end date: 01/01/2018 - 12/31/2020
Total amount: € 196,020


PUBLICATIONS

1. Trujillo-Rodríguez F, Rodríguez-Quesada B, Rodríguez-Portillo M, García-Curiel A, Ramos-Ruiz A, Bonilla F, Pineda-Albornoz A, Clavero-Salvador J, Rubio-Rubio JM, Ruiberriz de Torres R, Zaragoza JR, Aznar-Reig A. La hipertrofia parotídea en la cirrosis hepática. Rev Clin Esp, 149:561-564; 1978.
2. Rodríguez-Portillo M, Trujillo-Rodríguez F, Vivancos-Escobar JA, Aznar-Reig A. I. Presión oncótica del plasma: técnica de determinación y valores normales obtenidos en una población sana. Rev Clin Esp, 154:209-212; 1979
3. Trujillo-Rodríguez F, Rodríguez-Portillo M, Aznar-Reig A. II. Presión oncótica del plasma: proteinemia total. Cociente albúmino/globulina. Rev Clin Esp, 155:89-92; 1979
4. Rodríguez-Portillo M, Trujillo-Rodríguez F, Aznar-Reig A. Influencia de la fracción albúmina en la presión oncótica plasmática. Med Clin, 73:435-437; 1979

5. Gentil-Baldrich A, Trujillo-Rodríguez F, Ruiberriz-Torres R, Rubio-Rubio JM, Rodríguez-Portillo M, Aznar-Reig A. Hemorragias digestivas yatrógenas. Consideraciones en torno a 108 casos. *Med Clin*, 73:177-179; 1979
6. Rodríguez-Portillo M, Trujillo-Rodríguez F, Aznar-Reig A, Piazza C, Rodríguez- Velasco J. Técnica de la medición directa de la presión oncótica. *Rev Esp Fisiol*, 35:5-8; 1979
7. Gentil-Baldrich A, Trujillo-Rodríguez F, Rodríguez-Portillo M, Ruiberriz-Torres R, Rubio-Rubio JM, Aznar-Reig A. Estudio de la lacticoacidemia y de la piruvicemia en las hepatopatías difusas. *Rev Clin Esp*, 156:345-348; 1980
8. Ruiberriz-Torres R, Trujillo-Rodríguez F, González-Torres M, Rubio JM, Patrignani J, Rodríguez-Portillo M, Gentil A. Intoxicación arsénica subaguda (comentarios sobre tres observaciones). *Rev Clin Esp*, 156:217-220; 1980
9. Trujillo-Rodríguez F, Rodríguez-Portillo M, Vivancos-Escobar JA. Estudio de la relación presión coloidosmótica plasmática-albuminemia. *Rev Clin Esp*, 162:29-32; 1980
10. Rodríguez-Portillo M, Fabian-Romero F, Trujillo-Rodríguez F. Influencia de la presión hidrostática vascular sobre la concentración plasmática del colesterol-HDL, colesterol-VLDL y de los triglicéridos en el hombre sano. *Rev Clin Esp*, 162:111-114; 1981



11. Rodríguez M, Trujillo F, Vivancos J, Aznar A. Influencia de los cambios de postura y del ejercicio físico sobre la presión oncótica y la proteinemia. *Rev Esp Fisiol*, 37:71-74, 1981
12. Trujillo F, Roa L, González-Barón S, Rodríguez-Portillo M. Modelo dinámico de simulación aplicado al estudio de los espacios vascular e intersticial. *Rev Esp Fisiol*, 38:59-64, 1982
13. Rodríguez M, Llach F, Pederson JA, Palma A. Changes in plasma oncotic pressure during isolated ultrafiltration. *Kidney Int* 21:519-523, 1982.
14. Rodríguez M, Pederson JA, Llach F. Effect of dialysis and ultrafiltration on osmolality colloid osmotic pressure and vascular refilling rate. *Kidney Int* 28:808-813, 1985.
15. Rodríguez M, Felsenfeld AJ, Samara S, Pederson JA, Llach F. Zirconium does not produce osteomalacia in rats with chronic renal failure. *Trans Am Soc Artif Intern Organs* 31:655-659, 1985.

16. Rodriguez M, Lorenzo V, Felsenfeld AJ, Llach F. Changes in serum calcium and phosphorus induced by chronic renal failure in the absence of parathyroid hormone. In: Phosphate and mineral homeostasis, SG Massry, M Olmer and E Ritz, eds, Plenum Publishing Co., New York, pp. 383-386, 1986
17. Rodriguez M, Felsenfeld AJ, Llach F. The Role of aluminum in the development of hypercalcemia in the rat. *Kidney Int* 31:766-771, 1987
18. Felsenfeld AJ, Rodriguez M, Coleman M, Ross D, Llach F. Desferrioxamine therapy in hemodialysis patients with aluminum-associated bone disease. *Kidney Int* 35:1371-1378, 1989.
19. Rodriguez M, Felsenfeld AJ, Llach F. The evolution of osteomalacia in the rat with acute aluminum toxicity. *J Bone Min Res* 4:687-696, 1989.
20. Dunlay R, Rodriguez M, Felsenfeld AJ, Llach F. Direct inhibitory effect of calcitriol on parathyroid hormone function (sigmoidal curve) in dialysis. *Kidney Int* 6:1093-1098, 1989.
21. Rodriguez M, Solanski DL, Whang R. Refractory potassium repletion due to cisplatin-induced magnesium depletion. *Arch Int Med* 149:2592-2594, 1989.
22. Codding CE, Ramseyer L, Allon M, Pitha J, Rodriguez M. Tubulointerstitial nephritis due to vancomycin. *Am J Kid Dis* 15:512-515, 1989
23. Allon M, Rodriguez M, Llach F. Insulin in the acute renal adaptation to dietary phosphate restriction in the rat. *Kidney Int* 37:14-20, 1990.
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24. Rodriguez M, Felsenfeld AJ, Llach F. Aluminum administration to the rat separately affects the osteoblast and bone mineralization. *J Bone Min Res* 5:59-67, 1990.
25. Rodriguez M, Lorenzo V, Felsenfeld A, Llach F. Effect of parathyroidectomy on aluminum toxicity and azotemic bone disease in the rat. *J Bone Min Res* 5:379-385, 1990.
26. Allon M, Pasque CB, Rodriguez M. Interaction of captopril and ibuprofen on glomerular and tubular function in humans. *Am J Physiol* 259:f233-f238, 1990
27. Allon M, Pasque CB, Rodriguez M. Sodium and water exchange in nephrotic patients: effects of changes in renal hemodynamics. *Clin Sci* 79:123-129, 1990.
28. Allon M, Harrow A, Pasque CB, Rodriguez M. Renal sodium and water handling in hypothyroid patients; the role of renal insufficiency. *J Am Soc Nephrol* 1:205-210, 1990.

29. Allon M, Pasque CB, Rodriguez M. Acute effect of captopril and ibuprofen on proteinuria in patients with nephrosis. J Lab Clin Med 116:462-468, 1990
30. Rodríguez M, Felsenfeld AJ, Llach F. Experimental induced aluminum bone disease. Aluminum and renal failure. Marc E de Broe and Jack W Coburn, editor. Kluwer Academic publishers, 1990
31. Rodríguez M. Complicaciones respiratorias en la insuficiencia renal crónica. Insuficiencia Renal Crónica: Diálisis y Trasplante. F Llach and F Valderrábana editores. Ediciones Norma, 1990
32. Felsenfeld AJ, Machado L, Rodriguez M. The effect of high parathyroid hormone levels on the development of aluminum-induced osteomalacia in the rat. J Am Soc Nephrol. 1:970-979, 1991.
33. Felsenfeld AJ, Rodriguez M, Dunlay R, Llach F. A comparison of Parathyroid-gland function in haemodialysis patients with different forms of renal osteodystrophy. Nephrol Dial and Transplant 6:244-251, 1991.
34. Rodriguez M, Torres A, Pederson L, Felsenfeld A, Llach F. Calcitonin, an important factor in the calcemic response to parathyroid hormone in the rat. Kidney Int. 40:219-225, 1991.
35. Chen WYC, Chen A, Rodriguez M, Hu MS, Capparelli AW, Lee DBN, Yanagawa N. Role of parathyroid hormone in rat remnant kidney ammonium metabolism. Miner Electrolyte Metab 17:46-51, 1991.



36. Torres A, Rodriguez M, Felsenfeld A, Martin-Malo A, Llach F. Sigmoidal relationship between Calcitonin and calcium: Studies in normal, parathyroidectomized and azotemic rats. Kidney Int 40: 700-704, 1991.
37. Rodriguez M, Martin Malo A, Martinez M, Torres A, Felsenfeld A, Llach F. Calcemic response to Parathyroid Hormone in renal failure: Role of phosphorus and its effect on calcitriol. Kidney Int 40:1055-1062, 1991
38. Rodriguez M, Felsenfeld A, Llach F. Calcemic response to Parathyroid Hormone in renal failure: role of Calcitriol and the effect of parathyroidectomy. Kidney Int 40:1063-1068, 1991.
39. Martinez ME, Rodriguez M, Frutos M, Felsenfeld AJ. Effect of aluminum on osteocalcin production in the rat. Nephrol Dial Transplant 6:851-856, 1991.
40. Martinez ME, Wipperman M, Cobiaichi M, Rodriguez M. Measurement of calcitriol levels in rats. Eight workshop on vitamin D. 656-657, 1991.

41. Felsenfeld AJ, Ross D, Rodríguez M. Hysteresis of the parathyroid hormone response to hypocalcemia in hemodialysis patients with low turnover aluminum bone disease. *J Am Soc Nephrol* 2:1136-1143, 1991.
42. Rodríguez M, Felsenfeld AJ, Williams C, Pederson JA, Llach F. The effect of long-term intravenous calcitriol administration on parathyroid function in hemodialysis patients. *J Am Soc Nephrol* 2:1014-1020, 1991.
43. Martín-Malo A, Velasco F, Rojas R, Castillo D, Rodríguez M, Torres A, Aljama P. Fibrinolytic activity during hemodialysis: A biocompatibility related phenomenon. *Kidney Int* 43:S213-S216, 1993
44. Felsenfeld AJ, Machado L, Rodríguez M. The relationship between serum calcitonin and calcium in the hemodialysis patient. *Am J Kid Dis* 21:292-299, 1993.
45. Felsenfeld AJ, Machado L, Bover J, Trinidad P, Rodríguez M. Effect of aluminum on the development of hyperparathyroidism and bone disease in the azotaemic rat. *Nephrol Dial Transplant* 8(4):325-334, 1993.
46. Guerrero R, Velasco F, Rodríguez M, Lopez A, Rojas R, Alvarez MA, Villalba R, Rubio V, Torres A, Castillo D del. Endotoxin induced pulmonary dysfunction is prevented by C1-esterase inhibitor. *J Clin Invest* 91:2754-2760, 1993.
47. Burdiel LG, Jimenez A, Martín-Malo A, Castillo D, Rodríguez M, Alvarez MA, Aljama P. The effect of dialysate osmolality on ultrafiltration and vascular refilling rate. *Peritoneal Dialysis International*. Vol 13 (Supp 2):S67-S72, 1993
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