## Stones: Research and metabolics

**Poster Session 15**

**Location:** Green Area, Room 4

**Chairs:**
- P. M. Ferraro, Rome (IT)
- M.S. Agrawal, Agra (IN)
- K. Taguchi, Nagoya (JP)

Poster viewing of 20 minutes. Presentations will take place on stage. Standard presentations are 2 minutes in length, followed by 2 minutes for discussion.

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**Aims and objectives of this presentation**

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<td><strong>β3 Stimulant contributes to the prevention of renal crystal formation via differentiation of beige adipocytes</strong></td>
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By: Sugino T.\(^1\), Okada A.\(^1\), Tanaka Y.\(^1\), Unno R.\(^1\), Taguchi K.\(^1\), Hamamoto S.\(^1\), Ando R.\(^1\), Mogami T.\(^2\), Kohri K.\(^1\), Yamashita H.\(^3\), Yasui T.\(^1\)

\(^1\)Nagoya City University Graduate School of Medical Sciences, Dept. of Nephro-Urology, Nagoya, Japan, \(^2\)JA Mie Komono Kosei Hospital, Dept. of Urology, Komono, Japan, \(^3\)College of Life and Health Sciences, Chubu University, Dept. of Biomedical Sciences, Kasugai

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<td><strong>Estrogen can reduce incidence of kidney stones by enhancing intestinal excretion of oxalate</strong></td>
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By: Gong J.\(^1\), Jiang H.\(^2\), Gao X.\(^2\), Liu J.\(^2\)

\(^1\)Tongji Hospital, Dept. of Urology, Wuhan, China, \(^2\)Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Dept. of Urology, Wuhan, China

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Identification of aberrant glycosylation of osteopontin in urinary stone former patients as a urolithiasis biomarker

By: Anan G.1, Yoneyama T.2, Tobisawa Y.3, Hatakeyama S.3, Yoneyama M.4, Iwamura H.1, Ito J.1, Kaiho Y.1, Yamamoto H.3, Imai A.2, Yoneyama T.3, Hashimoto Y.2, Sato M.1, Ohyama C.3

1Tohoku Medical and Pharmaceutical University, Dept. of Urology, Sendai, Japan,
2Hirosaki University Graduate School of Medicine, Dept. of Advanced Transplant and Regenerative Medicine, Hirosaki, Japan,
3Hirosaki University Graduate School of Medicine, Dept. of Urology, Hirosaki, Japan,
4Oyokyo Kidney Research Institute, Dept. of Urology, Hirosaki, Japan

Aims and objectives of this presentation

Discovery of fatty acid binding protein 4 as an essential molecule for the development of kidney stones: A new understanding of the relationship between obesity and nephrolithiasis

By: Taguchi K.1, Chen L.1, Usawachintachit M.1, Hamamoto S.2, Kang M.1, Unno R.3, Tzou D.1, Sherer B.1, Yasui T.3, Ho S.1, Stoller M.1, Chi T.1

1University of California, Dept. of Urology, San Francisco, United States of America,
2Nagoya City University Graduate School of Medical Sciences, Dept. of Nephro-Urology, Nagoya, Japan,
3Nagoya City University Graduate School of Medical Sciences, Dept. of Nephro-urology, Nagoya, Japan

Aims and objectives of this presentation

Association between metabolic syndrome (MetS) and kidney stone disease recurrence: Outcomes from a retrospective cohort study with a mean follow-up of 18-years

By: Geraghty R.1, Cook P.2, Somani B.1

1University Hospital Southampton, Dept. of Urology, Southampton, United Kingdom,
2University Hospital Southampton, Dept. of Chemical Pathology, Southampton, United Kingdom

Aims and objectives of this presentation

High concentration of calcium promotes mineralization and apoptosis via an NADPH oxidase/Nox4-MAPK pathway-dependent mechanism

By: Xun Y., Wang Q., Li C., Wu Y., Qin BL., Wang S. Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Dept. of urology, Hubei Wuhan, China

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<td>Low bone mineral density is associated with the onset of symptoms during follow-up: The relationship between bone mineral density and clinical outcomes in urolithiasis patients</td>
<td>Taguchi K., Sugino T., Okada A., Hamamoto S., Tanaka Y., Unno R., Ando R., Tozawa K., Kohri K., Yasui T. Nagoya City University Graduate School of Medical Sciences, Dept. of Nephro-urology, Nagoya, Japan</td>
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<td>The role of gut microbiome and short chain fatty acids in renal calcium oxalate stones formation</td>
<td>Liu Y., Chen Z., Jiang Q., Cheng L., Zhou L., Li Y., Sun Q., Wang K., Li H. 1 West China Hospital, Sichuan University, Dept. of Urology, Chengdu, China, 2University of Michigan, Dept. of Kidney Epidemiology and Cost Center, School of Public Health, Ann Arbor, United States of America, 3Sichuan University, Dept. of Life Sciences, Chengdu, China</td>
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<td>Methodological basis for the prevention of pathological crystallogenesis</td>
<td>Gorbachev M., Emanuel V.L., Al-Shukri S.H., Fedorov D.A., Mosoyan M.S. 1 Almazov National Medical Research Centre, Dept. of Urology and Robotic surgery, Saint Petersburg, Russia, 2Pavlov First State Medical University, Laboratory Diagnostics, Saint Petersburg, Russia, 3Pavlov First State Medical University, Dept. of Urology, Saint Petersburg, Russia</td>
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<td>A new approach to the dietary stereotypes study in urolithiasis patients</td>
<td>Anokhin N.A., Prosiannikov M., Konstantinova O., Voytko D., Golovanov S., Apolihin O., Sivkov A. 1 N.A. Lopatkin Scientific Research Institute of Urology and Interventional Radiology – Branch of the National Medical Research Radiological Centre of the Ministry of Health of Russian Federation, Dept. of Uro lithiasis, Moscow, Russia, 2N.A. Lopatkin, Scientific Research Institute of Urology and Interventional Radiology – Branch of the National</td>
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Nephrolithiasis predicts ischemic stroke: A longitudinal follow-up study using a national sample cohort

By: Bang W.¹, Ko K.T.², Shim M.S.¹, Oh C.Y.¹, Lee Y.S.¹, Cho J.S.¹
¹Hallym Sacred Heart Hospital, Dept. of Urology, Anyang, South Korea, ²Kangdong Sacred Heart Hospital, Dept. of Urology, Seoul, South Korea

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