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NATALIA M. GRINDLER, M.D.

**EDUCATIONAL QUALIFICATIONS:
THREE-YEAR SUBSPECIALTY FELLOWSHIP IN REPRODUCTIVE
ENDOCRINOLOGY AND INFERTILITY
UNIVERSITY OF COLORADO DENVER
Denver, Colorado**

**COMPLETED FOUR-YEAR RESIDENCY IN OBSTETRICS AND GYNECOLOGY
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
St Louis, Missouri**

**M.D.
CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE
Cleveland, Ohio**

**B.A. IN BIOCHEMISTRY
SMITH COLLEGE
Northampton, Massachusetts**

**LICENSURE AND BOARD CERTIFICATION:
Colorado State License
Dual ABOG Board Certification in OBGYN & Reproductive Endocrinology & Infertility**

HONORS AND AWARDS:

2017	Best Poster Presentation for Post-doctoral Fellows, Building Better Babies Research Symposium, University of Colorado, Denver, CO
2016	ASRM Corporate Member Council In-training Travel Grant
2015	Excellence in Resident and Medical Student Teaching University of Colorado, Denver CO
2013	First Place-Acknowledgement of Excellence in Research The 28 th Annual Dr. David Rothman Resident Research Washington University in St Louis
2013	First Place- President's Gold Award for Scientific Research St Louis OBGYN Society Annual Meeting

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- 2010 **Alpha Omega Alpha**
Case Western Reserve School of Medicine
- 2010 The Harry Resnick Memorial Fund Award
Case Western Reserve School of Medicine
- 2007 **NIH T35** Research Program Grant
Heart, Lung, Blood, and Sleep Program
Case Western Reserve School of Medicine
- 2006 **Cum laude**, Smith College
- 2006 **Highest Honors** in Biochemistry, Smith College
- 2006 Margaret Wemple Birgham Prize (Biology), Smith College
- 2005 Sigma Xi, Smith College
- 2005 Smith College Praxis Internship, Smith College
- 2005 Youth Service Organization Grant for Leadership
Best Buddies Chapter, Smith College
- 2002-2006 STRIDE Scholar Research Grant, Smith College

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

Section Editor, Current Obstetrics & Gynecology Reports:
Environmental Exposures and Pregnancy Outcomes

Reviewer: Scientific Reports, JAMA, PlosOne

Pediatric Environmental Health Specialty Unit, West Program.
Section VIII (Consultant)

**Reproductive Environmental Health Assessment and Risk
Reduction Guidance Expert Advisor Group**. Agency for Toxic
Substances and Disease Registry and American College of Medical
Toxicology. (Advisory Group Member)

American College of Obstetricians and Gynecologists
(Fellow)

American Society for Reproductive Medicine
(Member)

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Alpha Omega Alpha
(Member)

Physician Mom Group (Member)

AWARDED GRANTS

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| 2014 | Just in Time Grant. Washington University School of Medicine, St. Louis, Missouri. |
| 2015 | Academic Enrichment Fund. Department of Obstetrics & Gynecology. University of Colorado, Denver CO. |
| 2015 | Society for Reproductive Endocrinology and Infertility National Research Service Institutional Training Award (T32). |

MAJOR INVITED LECTURESHIPS:

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| October 10, 2018 | Keynote speaker: OBGYN screening for environmental exposures: A call for action. PEHSU regional conference in Chicago, IL. |
| June 16, 2018 | Food for Life: How diet can influence fertility and pregnancy. American College of Obstetrics & Gynecology Colorado Symposium in Vail, CO. |
| June 6, 2017 | Exposure to phthalate, an endocrine disrupting chemical, alters the first trimester placental methylome and transcriptome in women |
| March 22, 2017 | OBGYN residents and faculty are least likely to screen for environmental exposures: results from OBGYN Screening for Environmental Exposures (OSEE). University of Colorado OBGYN Grand Rounds |
| October 17, 2016 | Exposure to phthalate, an endocrine disrupting chemical, alters first trimester placental gene expression in women. 71 st Annual Meeting of the American Society for Reproductive Medicine. Salt Lake City, Utah. |
| October 17, 2016 | The effect of the endocrine disrupting chemical DEHP on the ovarian and adipose transcriptome. 71 st Annual Meeting of the American Society for Reproductive Medicine. Salt Lake City, Utah. |
| April 19, 2013 | Endocrine disrupting chemicals impact ovarian function. Rothman Research Symposium. Washington University School of Medicine, St. Louis, Missouri. |

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- April 10, 2013 Endocrine disrupting chemicals impact ovarian function. St Louis OBGYN Society Annual Research Meeting. St. Louis, Missouri.
- October 21, 2012 Endocrine disrupting chemicals impact ovarian function. 68th Annual Meeting of the American Society for Reproductive Medicine. San Diego, California.
- September 27, 2012 Endocrine disrupting chemicals impact ovarian function. Women's Health Symposium. Washington University School of Medicine, St. Louis, Missouri.

BIBLIOGRAPHY:

Peer reviewed manuscripts:

1. Broughton D, Chen S, Crawford N, Feinberg E, Forman E, **Grindler N**, Kallen A, Kudesia R, Perfetto C, Shahine , Trolice M, Omurtag K. Fertility and Sterility Dialog [Internet]. "Fertility Social Media Influencers, part 1: Your brand and your Narrative. 2019 September. Available from <https://www.fertsterdialog.com/rooms/101-consider-this/posts/52945-omurtag-consider-this-part-1>
2. Broughton D, Chen S, Crawford N, Feinberg E, Forman E, **Grindler N**, Kallen A, Kudesia R, Perfetto C, Shahine , Trolice M, Omurtag K. Fertility and Sterility Dialog [Internet]. "Rise of the social media influencer in fertility care, part 2: doin' it (professionally) for the "Gram." 2019 October. Available from <https://www.fertsterdialog.com/users/16110-fertility-and-sterility/posts/54156-omurtag-consider-this-part-2>
3. **Grindler, NM**, L. Vanderlinden, R. Karthikraj, K. Kannan, S. Teal, A. J. Polotsky, T. L. Powell, I.V Yang and T. Jansson. Exposure to phthalate, an endocrine disrupting chemical, alters the first trimester placental methylome and transcriptome in women. Scientific Reports, 2018. 17;8(1):6086
4. **Grindler NM**, Allshouse AA, Jungheim E, Powell TL, Jansson T, and AJ Polotsky. OBGYN screening for environmental exposures: a call for action. Plos One, 2018. 16;13(5):e0195375
5. **Grindler N**, Al-Safi Z, N Santoro. Menopausal Hormone Therapy. Comprehensive Toxicology. 3rd Edition.
6. **Grindler NM** and N. Santoro. Exercise and Menopause. Menopause 2015. Dec;22(12):1351-8

7. **Grindler NM**, Ng J, Tocce K, Alvero R. Considerations for management of interstitial ectopic pregnancies: case series. *Journal of Medical Case Reports*, accepted.
8. Reynolds KA, **Grindler NM**, Rhee JS, Cooper AR, Ratts VS, Jungheim ES. Variability in the practice of fertility preservation for patients with cancer. *PlosOne* 2015, 10(5):e0127335
9. **Grindler NM**, Allworth JE, Macones GA, Roehl KA, Cooper AR. Do endocrine disrupting chemicals alter age of menopause? Evidence from the National Health and Nutrition Examination Survey, 1999-2008. *PLoS ONE*. 2015. 10(1): e0116057
10. **Grindler NM**, Moley KH. Maternal obesity, infertility, and mitochondrial dysfunction: potential mechanisms emerging from mouse model systems. *Molecular Human Reproduction*. 2013. 19(8): 486-494.
11. Jiminez PT, Frolova AI, Chi MM, **Grindler NM**, Willcockson AR, Moley KH. DHEA-mediated inhibition of the pentose phosphate pathway alters oocyte lipid metabolism in mice. *Endocrinology*. 2013. 154(12):4835-44.
12. Omurtag K, **Grindler NM**, Bates GW, Beltsos A, Odem R, Jungheim ES. State-mandated insurance coverage is associated the approach to hydrosalpinges prior to IVF. *Reproductive Biomedicine Online*, 2014. 29(1):131-135
13. Parker AK, **Grindler N**, Jungheim ES, Odem RR, Ratts VS, Cooper AR. Antral follicle count is increased in obese women placed on oral contraceptive pills. *Journal of Reproductive Medicine* 2015 60: 155-159
14. Omurtag K, **Grindler NM**, Roehl KA, Bates GW Jr, Beltsos AN, Odem RR, Jungheim ES. How members of the Society for Reproductive Endocrinology and Infertility and Society of Reproductive Surgeons evaluate, define, and manage hydrosalpinges. *Fertil Steril*. 2012 May;97(5):1095-100.e1-2.
15. Luzzo KM, Wang Q, Purcell SH, Chi M, Jimenez PT, **Grindler N**, Schedl T, Moley KH. High fat diet induced developmental defects in the mouse: oocyte meiotic aneuploidy and fetal growth retardation/brain defects. *PLoS One*. 2012;7(11):e49217.
16. **Grindler NM**, Cooper AR. Vulvovaginal and Mullerian Abnormalities. *Nelson's Textbook of Pediatrics: Chapter 548*. 2013 Edition.
17. Bedaiwy MA, **Grob NM**, Redline RW, Pinkerton J, Perriera LK, Lazebnik N. Gravid hysterectomy following history of recurrent ruptured uterus: Case report. *The Journal of Obstetrics & Gynaecology Research* 2011. 37(10): 1497-502.

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18. **Grob NM**, Aytakin M, Dweik RA. Biomarkers in exhaled breath condensate: a review of collection, processing and analysis. *Journal of Breath Research* 2008. 3(2): 18.
19. **Grob NM**, Dweik RA. Exhaled nitric oxide: progress since the introduction of standardized methodology. *Journal of Breath Research* 2008. 2(3): 18.
20. **Grob NM**, Dweik RA. Exhaled nitric oxide in asthma. From diagnosis, to monitoring, to screening: are we there yet. *Chest* 2008. 133(4): 7.
21. **Grob NM**, Laskowski D, Dweik RA. A technical report on exhaled nitric oxide measurement: asthma monitoring in athletes. *Journal of Breath Research* 2008. 2(3): 4.

Abstracts:

1. **Grindler, NM**, A. Allshouse, E. Jungheim, A. J. Polotsky, T. L. Powell, T. Jansson , and N. Santoro. OBGYN physician screening for environmental exposures (OSEE): a call for action. Annual Meeting of the American Society for Reproductive Medicine, submitted.
2. **Grindler NM**, Yang K, Vanderlinden L, Rajendiran K, Kannan K, Polotsky AJ, Teal S, Schwartz D, Powell T, Jansson T. Phthalate exposure alters first trimester placental gene methylation in women. Pacific Coast Reproductive Society, accepted as oral presentation.
3. **Grindler NM**, Yang K, Vanderlinden L, Rajendiran K, Kannan K, Polotsky AJ, Teal S, Schwartz D, Powell T, Jansson T. Phthalate exposure alters first trimester placental gene methylation in women. Society for Reproductive Investigation, accepted as poster presentation.
4. **Grindler NM**, Yang K, Rajendiran K, Kannan K, Polotsky AJ, Teal S, Schwartz D, Powell T, Jansson T. Exposure to phthalate, an endocrine disrupting chemical, alters first trimester placental gene expression in women. Midwest Reproductive Symposium, accepted as poster presentation.
5. **Grindler NM**, Yang K, Rajendiran K, Kannan K, Polotsky AJ, Schwartz D, Powell T, Jansson T. The effect of the endocrine disrupting chemical DEHP on the ovarian and adipose transcriptome. Annual Meeting of the American Society for Reproductive Medicine, accepted as oral presentation.
6. **Grindler NM**, Yang K, Rajendiran K, Kannan K, Polotsky AJ, Teal S, Schwartz D, Powell T, Jansson T. Exposure to phthalate, an endocrine disrupting chemical, alters first trimester placental gene expression in women. Annual Meeting of the American Society for Reproductive Medicine, accepted as oral presentation.

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7. **Grindler NM**, Crowley J, Giblin D, Rohrs H, Cooper AR. Do endocrine disrupting chemicals pose a transgenerational health risk? A pilot study evaluating the transmission of polychlorinated biphenyls from mom to baby. 70th Annual Meeting of the American Society for Reproductive Medicine, submitted.
8. Tsai S, **Grindler NM**, Beaver, E, Longman R, Cooper AR. Cell free fetal DNA (cffDNA) testing and infertility patients: will discordant gender results be more common than previously expected? A plea for caution and research. 70th Annual Meeting of the American Society for Reproductive Medicine, submitted.
9. **Grindler NM**, Delli-Zotti K, Allworth J, Cooper AR. Endocrine disrupting chemicals impact ovarian function and ovarian reserve. Rothman Research Day 2013. St Louis, MO.
10. **Grindler NM**, Jimenez PJ, Willcockson AR, Chi MM, Moley KH. Dehydroepiandrosterone alters lipid metabolism in the oocyte via the pentose phosphate pathway. 60th Annual Meeting of the Society for Gynecologic Investigation. (Abstract #F-202) Orlando, Florida.
11. Reynolds K, **Grindler NM**, Cooper AR, Ratts V, Jungheim ES. The practice of fertility preservation: a national provider survey. 60th Annual Meeting of the Society for Gynecologic Investigation. (Abstract #S-037) Orlando, Florida.
12. **Grindler NM**, Delli-Zotti K, Allworth J, Cooper AR. Endocrine disrupting chemicals impact ovarian function and ovarian reserve. 68th Annual Meeting of the American Society for Reproductive Medicine. (Abstract #O-101) San Diego, California.
13. Omurtag K, **Grindler NM**, Bates GW, Beltsos A, Odem R, Jungheim, ES. State-mandated insurance coverage impacts the approach to hydrosalpinges prior to IVF. 68th Annual Meeting of the American Society for Reproductive Medicine. (Abstract #P-390) San Diego, California.
14. Parker AK, **Grindler N**, Jungheim ES, Odom RR, Ratts VS, Cooper AR. BMI influences the impact of oral contraceptive pills and GnRH agonists on antral follicle count ovarian reserve screens. 67th Annual Meeting of the American Society for Reproductive Medicine. (Abstract #P-311) Orlando, Florida.
15. **Grob NM**, Dweik RA. Exhaled nitric oxide and asthma- what can FENO really tell us? Lepow Research Day, Case Western Reserve University. Cleveland, Ohio (2009).
16. **Grob NM**, Dweik RA. Exhaled nitric oxide and asthma- what can FENO really tell us? Poster presented at Lerner Research Institute Pathobiology Department. Cleveland, Ohio. (2009).

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17. **Grob NM**, Li W, Williams SA. Use of microarrays to evaluate the gene expression in the L3 and L4 stage of the filarial parasite *Brugia malayi*. Oral Presentation at The American Society of Tropical Medicine & Hygiene Annual Conference. Atlanta, Georgia (2006).
18. **Grob NM**, Williams SA. Use of microarrays to evaluate the gene expression in the L3 and L4 stage of the filarial parasite *Brugia malayi*. Oral Presentation presented at: Smith College Annual Thesis Presentation- Biochemistry Department. Northampton, MA. (2006).
19. **Grob NM**, Mikic B. GDF-7 in bone growth and ligament repair. Poster presented at Smith College STRIDE Research Meeting. Northampton, Massachusetts (2003).