

## **Anne Sophie Bats**

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### **Professor Anne-Sophie Bats**

Full Professor of medicine (Obstetrics and Gynaecology) Paris Descartes University, Paris, France

Head of department of the Gynaecological and Breast Oncological Surgery Unit, Department of Women, mother, and child, European Georges Pompidou Hospital, AP-H

Member of INSERM team "Médecine Personnalisée, Pharmacogénomique, Optimisation Thérapeutique", UMRS1138, Cordeliers Research Center, Paris, France

42 years old

### **PERSONAL STATEMENT**

MD, PhD, Anne-Sophie Bats, is currently Full Professor and Head of Department in Gynaecological and Breast Oncological Surgery, in European Georges Pompidou Hospital. Pr. Anne-Sophie did a clinical mobility in Gynae Oncology at Saint Bartholomew's Hospital in London as locum consultant (2008-2009). She has a well-recognized trajectory in the gynaecological cancer research field, supported by an extensive record of scientific publications.

Following her research in regulation of genes involved in the migration of cancer cells by xenobiotics (INSERM UMR-S 747), she passed her doctoral degree in 2009 (ED Médicament).

She has been involved in several clinical trials in Sentinel Lymph Node in uterine cancer, Lynch syndrome, advanced ovarian cancer, and robotic surgery. She is a member of two networks in hereditary predisposition in gynaecological cancer ("Sein A Risque" for patients at risk of breast and ovarian cancers, and PRED-IF for patients at risk of endometrial and ovarian cancer), and a scientific member of the French HNPCC Lynch Association. She is a member of the French Society of Gynaecological Oncology (SFOG) and the European Society of Gynaecological Oncology (ESGO).

She has joined, as a senior researcher, the INSERM UMR 1147 team in the Cordeliers Research Center where she pursues her research in DNA tumor cells, as prognostic and predictive factors in advanced ovarian cancer.

She is author of 126 original articles, Number of citations without self citation : 1218, h-index 22, Average citations per item : 7,55 (sources: web of sciences)

Field of Expertise: Gynae oncology

Research Topic : Sentinel lymph node biopsy in Uterine cancer, Robotic surgery, Lynch syndrome, DNAtc in Ovarian cancer

### **CURRICULUM VITAE (updated Oct. 2019)**

#### **EDUCATION/TRAINING**

1994-2000 Medical Studies, Faculty of Amiens. University of Picardie Jules Verne

2000 Master in Sciences, University of Picardie Jules Verne

2004 Degree in Microbiology, University of Henri Poincaré Nancy I

2006 MD, Obstetrics and Gynaecology University of Paris Descartes, Sorbonne Université

2006 DES, Obstetrics and Gynaecology University of Paris Descartes, Sorbonne Université

2007 DESC, Oncology, University of Paris VII, Paris Diderot

2009 PhD, "Polluants and Metastases", University of Paris Descartes, Sorbonne Université

2014 HDR, Gynae oncology, University of Paris Descartes, Sorbonne Université

#### **POSITIONS**

Nov 2019: Head of Department of Gynaecological and Breast Oncological Surgery. European Georges Pompidou Hospital. AP-HP, Paris Descartes University.

Sept 2015 to ongoing: Full Professor in Department of Gynaecological and Breast Oncological Surgery. European Georges Pompidou Hospital. AP-HP, Paris Descartes University and INSERM UMR 1147 Sorbonne Université, " Médecine Personnalisée, Pharmacogénomique, Optimisation Thérapeutique", Cordeliers Research Center, Paris, France.

2012-2015: Associate Professor in Department of Gynaecological and Breast Oncological Surgery. European Georges Pompidou Hospital. AP-HP. Paris Descartes University. France.

2010-2012: Assistant Professor in Department of Gynaecological and Breast Oncological Surgery. European Georges Pompidou Hospital. AP-HP. Paris Descartes University. France.

2008-2009: Locum consultant in Department of Gynaecological Oncology. Saint Bartholomew's Hospital. NHS. London, UK.

2006-2010: Clinical Fellowship in Department of Gynaecological and Breast Oncological Surgery. European Georges Pompidou Hospital. AP-HP. Paris Descartes University. France.

2000-2006: Internship in Obstetrics and Gynaecology. AP-HP. France.

1994 to 2000: Medical Studies. Faculty of Amiens. University of Picardie Jules Verne.

## **PUBLICATIONS 2010-2019**

[Sentinel lymph node biopsy in early-stage cervical cancer: current state of art]. Balaya V, Guani B, Bonsang-Kitzis H, Deloménie M, Ngô C, Montero Macias R, Koual M, Nguyen-Xuan HT, Bats AS, Mathevet P, Lécuru F. Bull Cancer. 2019 Oct 15. pii: S0007-4551(19)30341-8. doi: 10.1016/j.bulcan.2019.06.011. [Epub ahead of print] Review. French.

The clinical implication of lymph nodes micrometastases and isolated tumor cells in patients with cervical cancer: A systematic review. Delomenie M, Bonsang-Kitzis H, Bats AS, Ngo C, Balaya V, Xuan HTN, Koual M, Mathevet P, Lecuru F. Eur J Obstet Gynecol Reprod Biol. 2019 Oct;241:71-76. doi: 10.1016/j.ejogrb.2019.08.010. Epub 2019 Aug 19. Review.

Associations between persistent organic pollutants and risk of breast cancer metastasis. Koual M, Cano-Sancho G, Bats AS, Tomkiewicz C, Kaddouch-Amar Y, Douay-Hauser N, Ngo C, Bonsang H, Deloménie M, Lecuru F, Le Bizec B, Marchand P, Botton J, Barouki R, Antignac JP, Coumoul X. Environ Int. 2019 Nov;132:105028. doi: 10.1016/j.envint.2019.105028. Epub 2019 Aug 2.

Prognostic impact of initial tumor load and intraperitoneal disease dissemination patterns in patients with advanced ovarian cancer undergoing complete cytoreductive surgery. Uzan J, Bonsang-Kitzis H, Rossi L, Rance B, Bats AS, Gosset M, Deloménie M, Pujade-Lauraine E, Lécuru F, Ngô C. Eur J Surg Oncol. 2019 Sep;45(9):1619-1624. doi: 10.1016/j.ejso.2019.04.011. Epub 2019 Apr 17.

Comment on "Increased risk of second cancers at sites associated with HPV after a prior HPV-associated malignancy, a systematic review and meta-analysis". Péré H, Pavie J, Pernot S, Veyer D, Bertaud D, Hurel S, Bélec L, Hans S, Ménard M, Cochand-Priollet B, Weiss L, Bats AS, Badoual C; AP-HP CoMPap (Consultation Multidisciplinaire Papillomavirus) group. Br J Cancer. 2019 Apr;120(9):952-953. doi: 10.1038/s41416-019-0439-0. Epub 2019 Mar 26. No abstract available.

Perioperative morbidity of radical trachelectomy with lymphadenectomy in early-stage cervical cancer: a French prospective multicentric cohort. Balaya V, Lécuru F, Magaud L, Ngô C, Huchon C, Bats AS, Mathevet P. J Gynecol Oncol. 2019 May;30(3):e34. doi: 10.3802/jgo.2019.30.e34.

Three-Dimensional Modelization of the Female Human Inferior Hypogastric Plexus: Implications for Nerve-Sparing Radical Hysterectomy. Balaya V, Guimiot F, Uhl JF, Ngo C, Delomenie M, Bonsang-Kitzis H, Gosset M, Mimouni M, Bats AS, Delmas V, Douard R, Lécuru F. Gynecol Obstet Invest. 2019;84(2):196-203. doi: 10.1159/000494255. Epub 2018 Oct 31.

Assessment of different pre and intra-operative strategies to predict the actual ESMO risk group and to establish the appropriate indication of lymphadenectomy in endometrial cancer. Vieillefosse S, Huchon C, Chamming's F, Le Frère-Belda MA, Fournier L, Ngô C, Lécuru F, Bats AS. J Gynecol Obstet Hum Reprod. 2018 Dec;47(10):517-523. doi: 10.1016/j.jogoh.2018.08.011. Epub 2018 Aug 28.

In Reply. Koual M, Bats AS, Lécure F. Menopause. 2019 Feb;26(2):225-226. doi: 10.1097/GME.0000000000001190. No abstract available.

Endometrial cancer in the elderly: does age influence surgical treatments, outcomes, and prognosis? Koual M, Ngo C, Girault A, Lécure F, Bats AS. Menopause. 2018 Sep;25(9):968-976. doi: 10.1097/GME.0000000000001119.

Dual docking robotic surgical staging for high risk endometrial cancer. Loaec C, Bats AS, Ngo C, Cornou C, Rossi L, Bensaid C, Nos C, Lecuru F. Eur J Obstet Gynecol Reprod Biol. 2018 Jun;225:79-83. doi: 10.1016/j.ejogrb.2018.04.009. Epub 2018 Apr 16.

[Papillomavirus, could we speak about cancer and prevention?] Pernot S, Pavie J, Péré H, Menard M, Hurel S, Cochand-Priollet B, Bats AS, Badoual C. Bull Cancer. 2018 Feb;105(2):137-139. doi: 10.1016/j.bulcan.2017.12.001. Epub 2018 Jan 17. French. No abstract available.

Atypical Distant Metastasis of Breast Malignant Phyllodes Tumors: A Case Report and Literature Review. de Foucher T, Roussel H, Hivelin M, Rossi L, Cornou C, Bats AS, Deloménie M, Lécure F, Ngô C. Case Rep Obstet Gynecol. 2017;2017:8963013. doi: 10.1155/2017/8963013. Epub 2017 Oct 11.

[Lynch syndrome and endometrial cancer]. Bats AS, Rossi L, Le Frere-Belda MA, Narjoz C, Cournou C, Gosset M, Ngo C, Delomenie M, Nos C, Blons H, Laurent-Puig P, Lecuru F. Bull Cancer. 2017 Dec;104(12):1013-1021. doi: 10.1016/j.bulcan.2017.06.018. Epub 2017 Oct 21. Review. French.

Clinicopathologic Characteristics of Endometrial Cancer in Lynch Syndrome: A French Multicenter Study. Rossi L, Le Frere-Belda MA, Laurent-Puig P, Buecher B, De Pauw A, Stoppa-Lyonnet D, Canlorbe G, Caron O, Borghese B, Colas C, Delhomelle H, Chabbert-Buffet N, Grandjouan S, Lecuru F, Bats AS. Int J Gynecol Cancer. 2017 Jun;27(5):953-960. doi: 10.1097/IGC.0000000000000985.

Is complete cytoreductive surgery feasible in this patient with ovarian cancer? Dessapt AL, Huchon C, Ngo C, Bats AS, Bensaid C, Lecuru F. Surg Oncol. 2016 Sep;25(3):326-31. doi: 10.1016/j.suronc.2016.07.001. Epub 2016 Jul 9.

Evidence for the use of robotically assisted surgery in gynecologic cancers. Ngô C, Cornou C, Rossi L, Bats AS, Bensaid C, Frati A, Nos C, Lécure F. Curr Opin Oncol. 2016 Sep;28(5):398-403. doi: 10.1097/CCO.0000000000000315. Review.

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Optimal surgical cytoreduction of the upper abdomen and the diaphragm for advanced ovarian cancer using PlasmaJet™ energy. Seror J, Bats AS, Habchi H, Lécure F. Gynecol Oncol. 2016 Feb;140(2):372-3. doi: 10.1016/j.ygyno.2015.11.028. Epub 2015 Nov 24.

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The Tumor Antigen Cyclin B1 Hosts Multiple CD4 T Cell Epitopes Differently Recognized by Pre-Existing Naive and Memory Cells in Both Healthy and Cancer Donors. Chevalerey C, Benhamouda N, Favry E, Fabre E, Mhoumadi A, Nozach H, Marcon E, Cosler G, Vinatier E, Oudard S, Hans S, Le Pimpec-Barthes F, Bats AS, Castelli FA, Tartour E, Maillère B. J Immunol. 2015 Aug 15;195(4):1891-901. doi: 10.4049/jimmunol.1402548. Epub 2015 Jul 1.

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Sentinel node biopsy for the management of early stage endometrial cancer: long-term results of the SENTI-ENDO study. Darai E, Dubernard G, Bats AS, Heitz D, Mathevet P, Marret H, Querleu D, Golfier F, Leblanc E, Rouzier R, Ballester M. *Gynecol Oncol*. 2015 Jan;136(1):54-9. doi: 10.1016/j.ygyno.2014.09.011. Epub 2014 Oct 22.

Feasibility and performance of lymphoscintigraphy in sentinel lymph node biopsy for early cervical cancer: results of the prospective multicenter SENTICOL study. Bats AS, Frati A, Froissart M, Orliaguet I, Querleu D, Zerdoud S, Leblanc E, Gauthier H, Uzan C, Deandreis D, Darai E, Kerrou K, Marret H, Lenain E, Mathevet P, Lecuru F. *Ann Nucl Med*. 2015 Jan;29(1):63-70. doi: 10.1007/s12149-014-0910-1. Epub 2014 Nov 15.

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[Contributions of laparoscopic and robotic surgery in the treatment of uterine cancer]. Seror J, Bats AS, Douay-Hauser N, Nos C, Bensaïd C, Lecuru F. *Rev Prat*. 2014 Jun;64(6):813-5. French. No abstract available.

Microsatellite instability analysis in uterine cavity washings to detect endometrial cancer in Lynch syndrome. Bats AS, Blons H, Narjoz C, Le Frere-Belda MA, Laurent-Puig P, Lecuru F. *Anticancer Res*. 2014 Jun;34(6):3211-5.

[Sentinel lymph node in low stage cervical cancers. Current data. Quality assurance. Prospects]. Lécure F, Bats AS, Bensaïd C, Douay Hauser N, Seror J, Nos C, Mathevet P. *Bull Cancer*. 2014 Apr;101(4):349-53. doi: 10.1684/bdc.2014.1928. Review. French.

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Microsatellite instability analysis for the screening of synchronous endometrial and ovarian cancer in Lynch syndrome. Bats AS, Roussel H, Narjoz C, Le Frere-Belda MA, Chamming's F, Blons H, Laurent-Puig P, Lecuru F. *Anticancer Res*. 2013 Sep;33(9):3977-81.

Laparoscopy vs robotics in surgical management of endometrial cancer: comparison of intraoperative and postoperative complications. Seror J, Bats AS, Huchon C, Bensaïd C, Douay-Hauser N, Lécure F. *J Minim Invasive Gynecol*. 2014 Jan-Feb;21(1):120-5. doi: 10.1016/j.jmig.2013.07.015. Epub 2013 Aug 29.

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Sentinel node biopsy upstages patients with presumed low- and intermediate-risk endometrial cancer: results of a multicenter study. Ballester M, Naoura I, Chéreau E, Seror J, Bats AS, Bricou A, Daraï E. *Ann Surg Oncol*. 2013 Feb;20(2):407-12. doi: 10.1245/s10434-012-2683-x. Epub 2012 Oct 2.

Bilateral ultrastaging of sentinel lymph node in cervical cancer: Lowering the false-negative rate and improving the detection of micrometastasis. Cibula D, Abu-Rustum NR, Dusek L, Slama J, Zikán M, Zaal A, Sevcik L, Kenter G, Querleu D, Jach R, Bats AS, Dyduch G, Graf P, Klat J, Meijer CJ, Mery E, Verheijen R, Zweemer RP. *Gynecol Oncol*. 2012 Dec;127(3):462-6. doi: 10.1016/j.ygyno.2012.08.035. Epub 2012 Aug 31.

The sentinel node technique detects unexpected drainage pathways and allows nodal ultrastaging in early cervical cancer: insights from the multicenter prospective SENTICOL study. Bats AS, Mathevet P, Buenerd A, Orliaguet I, Mery E, Zerdoud S, Le Frère-Belda MA, Froissart M, Querleu D, Martinez A, Leblanc E, Morice P, Daraï E, Marret H, Gillaizeau F, Lécuru F. *Ann Surg Oncol*. 2013 Feb;20(2):413-22. doi: 10.1245/s10434-012-2597-7. Epub 2012 Aug 22.

Comparison of diagnostic accuracy of frozen section with imprint cytology for intraoperative examination of sentinel lymph node in early-stage endometrial cancer: results of Senti-Endo study. Ballester M, Dubernard G, Bats AS, Heitz D, Mathevet P, Marret H, Querleu D, Golfier F, Leblanc E, Rouzier R, Daraï E. *Ann Surg Oncol*. 2012 Oct;19(11):3515-21. doi: 10.1245/s10434-012-2390-7. Epub 2012 May 11.

Value of three-dimensional contrast-enhanced power Doppler ultrasound for characterizing adnexal masses. Huchon C, Metzger U, Bats AS, Bensaid C, Chatellier G, Azizi M, Lefrère-Belda MA, Dujardin A, Bernard JP, Lécuru F. *J Obstet Gynaecol Res*. 2012 May;38(5):832-40. doi: 10.1111/j.1447-0756.2011.01785.x. Epub 2012 Mar 13.

Postoperative lymphocysts after lymphadenectomy for gynaecological malignancies: preventive techniques and prospects. Achouri A, Huchon C, Bats AS, Bensaid C, Nos C, Lécuru F. *Eur J Obstet Gynecol Reprod Biol*. 2012 Apr;161(2):125-9. doi: 10.1016/j.ejogrb.2011.12.021. Epub 2012 Feb 23. Review.

Response to rossi et Al. (*Gynecol oncol*. 2012; 124(1):78-82). Bats AS, Mathevet P, Lécuru F. *Gynecol Oncol*. 2012 Jun;125(3):764; author reply 765. doi: 10.1016/j.ygyno.2012.02.001. Epub 2012 Feb 12. No abstract available.

Postpartum hemorrhage treated with gelfoam slurry embolization using the superselective technique: immediate results and 1-month MRI follow-up. Pellerin O, Bats AS, Di Primio M, Palomera-Ricco A, Pinot de Villechenon G, Fournier L, Pagny JY, Beyssen B, Louail B, Lécuru F, Sapoval M. *Cardiovasc Intervent Radiol*. 2013 Feb;36(1):98-104. doi: 10.1007/s00270-012-0355-7. Epub 2012 Feb 11.

Updated follow-up of patients treated with the oncoplastic "Crescent" technique for breast cancer. Aljarrah A, Nos C, Nasr R, Clough KB, Bats AS, Lecuru F. *Breast*. 2012 Aug;21(4):475-9. doi: 10.1016/j.breast.2011.11.004. Epub 2011 Dec 18.

Prognostic significance of mediastinal 18F-FDG uptake in PET/CT in advanced ovarian cancer. Bats AS, Hugonnet F, Huchon C, Bensaid C, Pierquet-Ghazzar N, Faraggi M, Lécuru F. *Eur J Nucl Med Mol Imaging*. 2012 Mar;39(3):474-80. doi: 10.1007/s00259-011-1984-9. Epub 2011 Nov 23.

A life-threatening ectopic pregnancy with etonogestrel implant. Bouquier J, Fulda V, Bats AS, Lécuru F, Huchon C. *Contraception*. 2012 Feb;85(2):215-7. doi: 10.1016/j.contraception.2011.07.008. Epub 2011 Sep 13.

Diagnostic value of intraoperative examination of sentinel lymph node in early cervical cancer: a prospective, multicenter study. Bats AS, Buenerd A, Querleu D, Leblanc E, Daraï E, Morice P, Marret H, Gillaizeau F, Mathevet P, Lécuru F; SENTICOL collaborative group. *Gynecol Oncol*. 2011 Nov;123(2):230-5. doi: 10.1016/j.ygyno.2011.08.010. Epub 2011 Sep 3.

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10.1016/j.bcp.2011.07.072. Epub 2011 Jul 20. Review.

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A regressive Meigs syndrome after definitive adnexal torsion. Rousset P, Chaillot PF, Bats AS, Le Frère Belda MA, Buy JN. *Am J Obstet Gynecol*. 2011 Oct;205(4):e4-5. doi: 10.1016/j.ajog.2011.04.017. Epub 2011 Apr 16.

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Perforation of a malignant ovarian tumor into the recto-sigmoid colon. Bats AS, Rockall AG, Singh N, Reznik RH, Jeyarajah A. *Acta Obstet Gynecol Scand*. 2010 Oct;89(10):1362-3. doi: 10.3109/00016349.2010.501857.

Contribution of ultrasonography to endometrial cancer screening in patients with hereditary nonpolyposis colorectal cancer/Lynch syndrome. Lécure F, Huchon C, Metzger U, Bats AS, Le Frère Belda MA, Olschwang S, Puig PL. *Int J Gynecol Cancer*. 2010 May;20(4):583-7. doi: 10.1111/IGC.0b013e3181d7283a.